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Report Number: F690501-RF-RTL001388-1

TEST REPORT					
of					
FCC Part 15 Subpart C §15.209 and §15.231 IC RSS-210 Issue 10 and RSS-Gen Issue 5					
FCC ID: TQ8-FOB-4F270 IC Certification: 5074A-FOB4F270					
Equipment Under Test : Fob Smart Key Model Name : FOB-4F270					
Variant Model Name(s) : -					
Applicant : Hyundai Mobis Co., Ltd.					
Manufacturer : Hyundai Mobis Co., Ltd.					
Date of Receipt : 2020.11.16					
Date of Test(s) : 2020.11.23 ~ 2020.11.24					
Date of Issue : 2020.12.04					
 In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation. 1) The results of this test report are effective only to the items tested. 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. 3) This test report cannot be reproduced, except in full, without prior written permission of the Company. 					
Tested by: Jinhyoung Cho Technical Manager: Jungmin Yang					
SGS Korea Co., Ltd. Gunpo Laboratory					



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil. Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u>.

- Telephone : +82 31 688 0901
- FAX : +82 31 688 0921

1.2. Details of Applicant

Applicant	:	Hyundai Mobis Co., Ltd.
Address	:	203, Teheran-ro, Gangnam-gu, Seoul, South Korea, 135-977
Contact Person	:	Choe, Seung-hoon
Phone No.	:	+82 31 260 0098

1.3. Details of Manufacturer

Company	:	Same as above
Address	:	Same as above

1.4. Description of EUT

Kind of Product	Fob Smart Key
Model Name	FOB-4F270
Serial Number	Conducted: 001 Radiated: 002
Power Supply	DC 3.0 V
Frequency Range	Tx: 433.92 Mz, Rx: 125.00 klz
Modulation Type	FSK
Number of Channel	1
Antenna Type	PCB Pattern Antenna
Antenna Gain	-21.88 dB i
H/W Version	1.02
S/W Version	1.03



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1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMBV100A	255834	Jun. 03, 2020	Annual	Jun. 03, 2021
Spectrum Analyzer	R&S	FSV30	100768	Mar. 04, 2020	Annual	Mar. 04, 2021
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 04, 2020	Annual	Sep. 04, 2021
Preamplifier	H.P.	8447F	2944A03909	Aug. 06, 2020	Annual	Aug. 06, 2021
Signal Conditioning Unit	R&S	SCU-18	10117	Jun. 10, 2020	Annual	Jun. 10, 2021
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000- 18000-40SS	7	Mar. 04, 2020	Annual	Mar. 04, 2021
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 22, 2019	Biennial	Aug. 22, 2021
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	396	Mar. 21, 2019	Biennial	Mar. 21, 2021
Horn Antenna	R&S	HF906	100326	Feb. 14, 2020	Annual	Feb. 14, 2021
Test Receiver	R&S	ESU26	100109	Feb. 18, 2020	Annual	Feb. 18, 2021
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/38 330516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38 330516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RFONE	SFX086-NMNM-5M (5 m)	20200323001	Aug. 10, 2020	Semi- Annual	Feb. 10, 2021
Coaxial Cable	RFONE	PL520-NMNM-10M (10 m)	20200324001	Aug. 10, 2020	Semi- Annual	Feb. 10, 2021
Coaxial Cable	Rosenberger	LA1-C006-1500	131014 01/20	Aug. 20, 2020	Semi- annual	Feb. 20, 2021



1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part15 subpart C, IC RSS-210 Issue 10 and RSS-Gen Issue 5						
Section in FCC	Section in FCC Section in IC Test Item		Result			
15.209(a) 15.231(b)	RSS-210 Issue 10 A.1, Table A1 RSS-Gen Issue 5 8.9	Radiated emission, Spurious Emission and Field Strength of Fundamental	Complied			
15.231(c)	-	Bandwidth of Operation Frequency	Complied			
15.231(a)	RSS-210 Issue 10 A.1.1	0 Transmission Time Cor				
-	RSS-210 Issue 10 A.1.3 RSS-Gen Issue 5 6.7	Occupied Bandwidth				
15.207	RSS-Gen Issue 5 8.8	AC Power Line Conducted Emission	N/A ¹⁾			

Note;

1) The AC power line test was not performed because the EUT use battery power for operation and which do not operate from the AC power lines.

1.7. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Occupied Bandwidth	± 9.66 kHz
Radiated Emission, 9 klz to 30 Mz	± 3.59 dB
Radiated Emission, below 1 GHz	± 5.88 dB
Radiated Emission, above 1 🕀	± 5.94 dB

Uncertainty figures are valid to a confidence level of 95 %.

1.8. Test Report Revision

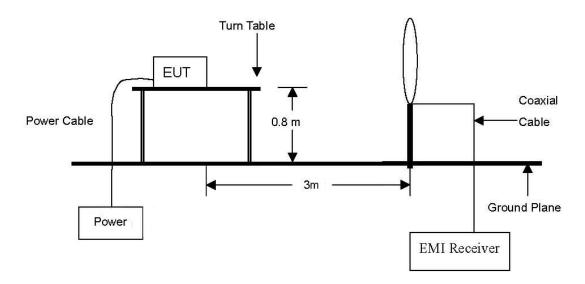
Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL001388	2020.11.26	Initial
1	F690501-RF-RTL001388-1	2020.12.04	Add average detector on test result



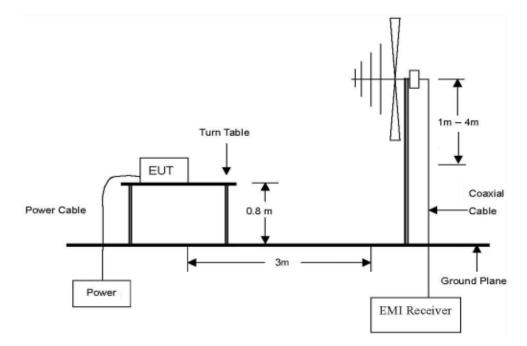
2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission below 30 $\ensuremath{\mathbb{M}}\xspace$.



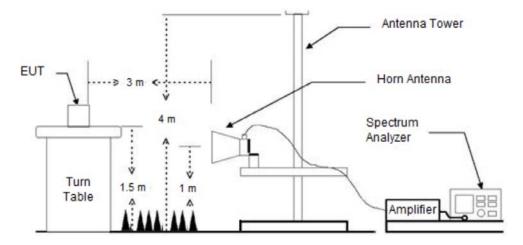
The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ML to 1 GL.





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The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated form 1 Gl_2 to the 10th harmonic of the highest fundamental frequency or 40 Gl_2 , whichever is lower.



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2.2. Limit

2.2.1. FCC

2.2.1.1. Radiated Emission Limits; general requirements.

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (땐)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2 400/F(kHz)	300
0.490-1.705	24 000/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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 Mb, 76-88 Mb, 174-216 Mb or 470-806 Mb. However, operation within these frequency bands is permitted under other sections of this part, e.g., \S 15.231 and 15.241.

2.2.1.2. Periodic Operation in the band 40.66-40.70 Mb and above 70 Mb.

According to §15.231(b), in addition to the provisions of Section §15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (爏)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)	
40.66-40.70	2,250	225	
70-130	1,250	125	
130-174	¹ 1,250 to 3,750	¹ 125 to 375	
174-260	3,750	375	
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250	
Above 470	12,500	1,250	

¹linear interpolations

Where F is the frequency in M/z, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 M/z, μ /m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 M/z, μ /m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.



2.2.2. IC

2.2.2.1. Transmitter Emission Limits

According to RSS-Gen Issue 5, 8.9.

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 - General field strength limits at frequencies above 30 Mb

Frequency (账)	Field Strength (<i>µ</i> V/m at 3 m)
30-88	100
88-216	150
216-960	200
Above 960	500

Table 6 - General field strength limits at frequencies below 30 Mz

Frequency	Magnetic Field Strength (H-Field) (µA/m)	Measurement Distance (m)
9-490 kHz ¹	6.37/F (F in 🔤	300
490-1 705 kHz	63.7/F (F in ₩z)	30
1.705-30 Mz	0.08	30

Note 1: The emission limits for the ranges 9-90 klz and 110-490 klz are based on measurements employing a linear average detector.



2.2.2.2. Momentarily Operated Devices

According to A.1 of RSS-210 Issue 10.

The operation of momentarily operated devices is permitted in the bands specified in tables A1 and A2 of this annex, but is prohibited in the restricted frequency bands listed in RSS-Gen.

The frequency bands and field strength limits in tables A1 and A2 are reserved exclusively for the transmission of a control signal, such as those used with alarm systems, door openers, remote switches, etc. Data may be sent with a control signal. Radio control of toys or model aircraft, as well as continuous transmissions (such as voice or video), are not permitted, except as provided in section A.1.4 below.

Table A1 - Permissible Field Strength Limits for Momentarily Operated Devices

Fundamental Frequency (ሙ), Excluding Restricted Frequency Bands Specified in RSS-Gen	Field Strength of the Fundamental Emissions (᠕/m at 3 m)
70-130	1,250
130-174	1,250 to 3,750*
174-260**	3,750
260-470**	3,750 to 12,500*
Above 470	12,500

* Linear interpolation with frequency, f, in Mz:

For 130-174 Mz: Field Strength ($\mu N/m$) = (56.82 x f) - 6136 For 260-470 Mz: Field Strength ($\mu N/m$) = (41.67 x f) - 7083

** Frequency bands 225-328.6 Mb and 335.4-399.9 MHz are designated for the exclusive use of the Government of Canada. Manufacturers should be aware of possible harmful interference and degradation of their licence-exempt radio equipment in these frequency bands.



2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 Mb

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from 30 Mb to 1 000 Mb

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.

2.3.3. Test Procedures for emission above 1 \times

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 Mz for Peak detection at frequency above 1 Gz.



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2.4. Test Result

Ambient temperature	:	(23	± 1) ℃
Relative humidity	:	47	% R.H.

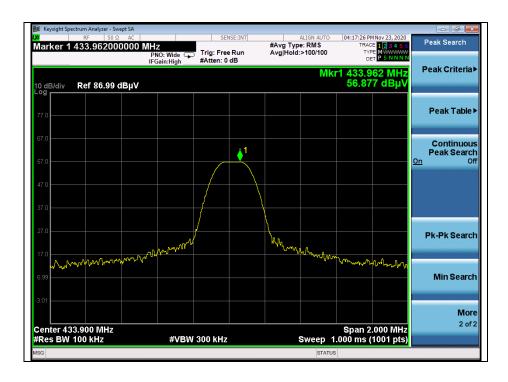
2.4.1. Field Strength of Fundamental

All emissions tested both horizontal and vertical. The following table shows the highest levels of radiated emissions on the worst polarization.

Frequency (肔)	Reading (dBµN)	Detect Mode	Ant. Pol.	AF (dB/m)	CL (dB)	DF (dB)	Result (dBµN/m)	Limit (dBµV/m)	Margin (dB)
433.96	56.88	Peak	V	22.18	3.78	-	82.84	100.83	17.99
433.96	-	Average	-	-	-	-7.50	75.34	80.83	5.49

Remark;

- 1. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z). Worst orthogonal plan of EUT is X - axis.
- Definition of DUT for three orthogonal planes is described in the test setup photos.
- 2. 3 m Limit (dBµV/m) = 20log [41.67(F(Mz)) - 7083] = 80.83 3.
 - Peak Result = Reading + Antenna Factor + Cable Loss
- 4. Average Result = Peak Result + DF
- 5. DF (Duty Cycle Correction Factor): $20\log (T_{on} / 100 \text{ ms}) = 20\log (42.17 / 100) = -7.50$ $-T_{on} = 42.17$ ms.
 - T_{on+off} = 100 ms (pulse train is 100 ms instead of 157.39 ms).





2.4.2. Radiated Spurious Emission

The following table shows the highest levels of radiated emissions. The frequency spectrum from 9 $\,\rm kHz\,$ to 4 400 $\,\rm MHz\,$ was investigated.

Radia	ted Emissio	ons	Ant.	Correction Factors		Total	Lim	it	
Frequency (账)	Reading (dBµV)	Detect Mode	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Result (dBµN/m)	Limit (dBµV/m)	Margin (dB)
836.07	38.20	Peak	V	27.30	-22.78	-	42.72	60.83	18.11
867.92	38.90	Peak	Н	27.66	-22.62	-	43.94	60.83	16.89
1 735.86	61.38	Peak	V	26.86	-36.51	-	51.73	80.83	29.10
1 735.86	-	Average	-	-	-	-7.50	44.23	60.83	16.60
*3 905.46	43.77	Peak	V	32.48	-31.80	-	44.45	74.00	29.55
*3 905.46	-	Average	-	-	-	-7.50	36.95	54.00	17.05
*4 339.54	48.88	Peak	Н	32.18	-31.18	-	49.88	74.00	24.12
*4 339.54	-	Average	-	-	-	-7.50	<u>42.38</u>	54.00	11.62

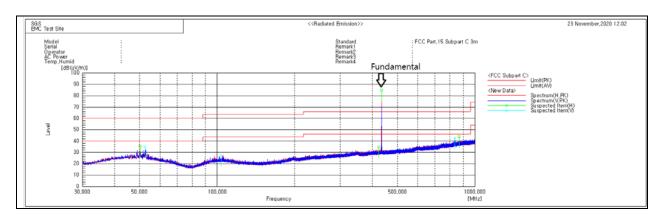
Remark;

- 1. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z).
- 2. 3 m Limit (dB μ N/m) = 20log [41.67(F_(Mb)) 7083] 20 dB μ N/m = 60.83 dB μ N/m.
- 3. Correction Factors = AF + AMP + CL + DF.
- 4. Peak Result = Reading + Correction Factors.
- 5. Average Result = Peak Result + DF.
- 6. DF (Duty Cycle Correction Factor): $20\log (T_{on} / 100 \text{ ms}) = 20\log (42.17 / 100) = -7.50$
 - $-T_{on} = 42.17$ ms.
 - $-T_{on+off}$ = 100 ms (pulse train is 100 ms instead of 157.39 ms).
- 7. "*" means the restricted band.
- 8. According to § 15.31(o), Emission levels are not reported much lower than the limits by over 20 dB.

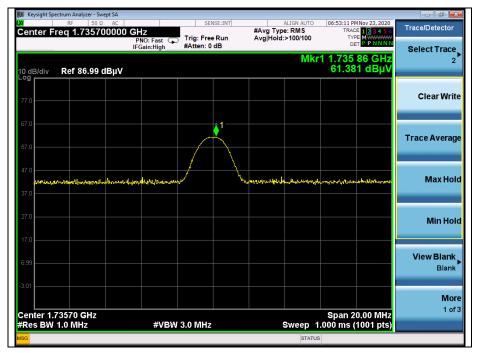


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- Test plots



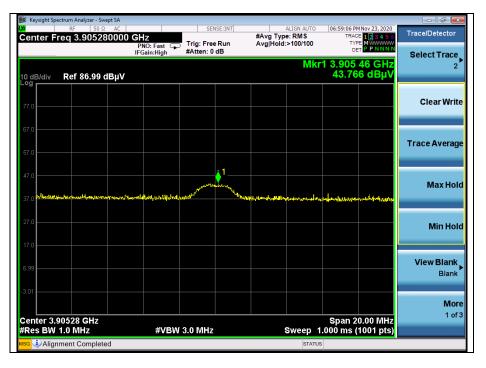
4th Harmonic





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9th Harmonic



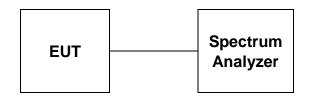
10th Harmonic





3. Bandwidth of Operation Frequency

3.1. Test Setup



3.2. Limit

According to \$15.231(c), the bandwidth of the emission shall be no wider than 0.25 % of the center frequency for devices operating above 70 Mz and below 900 Mz. For devices operating above 900 Mz, the emission shall be no wider than 0.5 % of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

3.3. Test Procedure

- 1. The transmitter output is connected to the spectrum analyzer.
- 2. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.
- 3. The bandwidth of fundamental frequency was measured and recorded.



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3.4. Test Result

Ambient temperature	:	(23	± 1) °C
Relative humidity	:	47	% R.H.

Frequency (ᡅ)	Bandwidth of Operation Frequency (述)	Limit (地)	Remark
433.92	94.79	1 084.80	The point 20 dB down from the modulated carrier

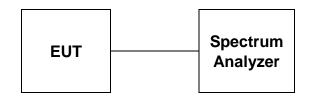
Spectrum						
Ref Level Att			RBW 3 kHz			
∎ Att ●1Pk View	U	dB SWT 5.6 ms 👄	ARM TO KHS M	ode Sweep		
JIPK VIEW				D3[1]		0.56 di
			M1	DOLT		94.790 kH
-60 dBm			X	_M1[1]		-62.05 dBr
-70 dBm				Α.		433.878760 MH
-yo ubiii			A			
-80 dBm			Manna	J de		
	01 -82.05	0 dBm	1			
-90 dBm			/			
			~	5		
-100 dBm-		I I I I I I I I I I I I I I I I I I I		M		
-110 dBm	m	man			men parmon	wanthan
-110 dBm-						
-120 dBm						
-130 dBm-						
-140 dBm						
CF 433.92 1	ΛHz		691 pt	5		Span 500.0 kHz
Marker						
Type Ref		X-value	Y-value	Function	Fun	ction Result
M1 M2	1	433.87876 MHz 433.87152 MHz	-62.05 dBm -83.16 dBm			
D3 M2		94.79 kHz	0.56 dB			
	7				asuring	



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4. Occupied Bandwidth

4.1. Test Setup



4.2. Limit

According to A.1.3 of RSS-210 Issue 10, the occupied bandwidth of momentarily operated devices shall be less than or equal to 0.25 % of the centre frequency for devices operating between 70 Mb and 900 Mb. For devices operating above 900 Mb, the occupied bandwidth shall be less than or equal to 0.5 % of the centre frequency.

4.3. Test Procedure

- 1. The transmitter output is connected to the spectrum analyzer.
- 2. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.
- 3. The bandwidth of fundamental frequency was measured and recorded.



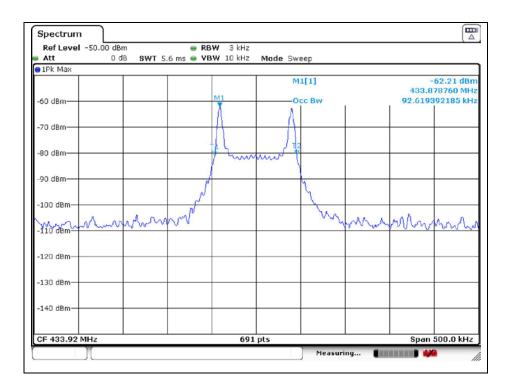
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4.4. Test Result

Ambient temperature	:	(23	± 1) °C
Relative humidity	:	47	% R.H.

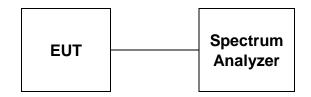
Frequency	Occupied Bandwidth	Limit	Remark
(ᡅ)	(朏)	(朏z)	
433.92	92.62	1 084.80	99 % Occupied bandwidth





5. Transmission Time

5.1. Test Setup



5.2. Limit

5.2.1. FCC

According to §15.231(a)(1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

5.2.2. IC

According to A.1.1(a) of RSS-210 Issue 10, a manually operated transmitter shall be equipped with a push-to-operate switch and be under manual control at all times during transmission. When released, the transmitter shall cease transmission within no more than 5 seconds of being released.

5.3. Test Procedure

- 1. The transmitter output is connected to the spectrum analyzer.
- 2. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW = 1 Mb, VBW = 1 Mb, Span = 0 Hz, Sweep Time = 10 sec.
- 3. The bandwidth of fundamental frequency was measured and recorded.



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5.4. Test Result

Ambient temperature	:	(23	± 1) ℃
Relative humidity	:	47	% R.H.

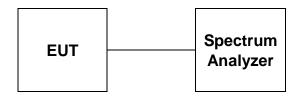
Frequency	Transmission Time	Limit	Remark
(雁)	(sec)	(sec)	
433.92	0.35	Same or less than 5	Pass

Ref Le	evel -	10.00 d	Bm 👄 🖡	RBW 1 MHz				
Att		0	dB 👄 SWT 10 s 👄 🕅	BW 1 MHz				
SGL								
1Pk Clr	w							
					D2	[1]		0.59 d
00 d0-								347.8 m
-20 dBm					M1	[1]		-39.27 dBr
00 d0-	.							1.4928
-30 dBm		1.41						
10 - 10		M1 D	2					
-40 dBm								
-50 dBm								
-50 asm								
-60 dBm								
-60 aBm								
-70 dBm								
-70 ubili								
80 dBm	100			and the second second			a a se al a	1 10 10 100 100
SONA, AND UN	and the second	Marches-	and the state of the second		Cherry darge		on the country	
-90 dBm	_							
-50 0011								
-100 dBr								
-100 081								
CF 433	.92 MI	Hz		691 p	ts			1.0 s/
larker								
Туре	Ref		X-value	Y-value	Funct	ion	Fund	tion Result
M1		1	1.4928 s	-39.27 dBm				
D2	M1	1	347.8 ms	0.59 dB	1 I.			



6. Duty Cycle Correction Factor

6.1. Test Setup



6.2. Limit

None (No dedicated Limit specified in the Rules).

6.3. Test Procedure

1. The transmitter output is connected to the spectrum analyzer.

2. Set center frequency of spectrum analyzer = operating frequency.

3. Set the spectrum analyzer as RBW = 1 MHz, VBW = Auto, Span = 0 Hz, Sweep Time = 1 sec.



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6.4. Test Result

Ambient temperature	:	(23	± 1) ℃
Relative humidity	:	47	% R.H.

CALCULATION:

Average Reading = Peak Reading $(dB\mu V/m)$ + 20log (Duty Cycle).

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT. We measured;

T _{on+off}	T _{on}	M % = $(T_{on} / T_{on+off}) * 100 \%$	Duty Correction Factor
100 ms	42.17 ms	42.17	-7.50 dB

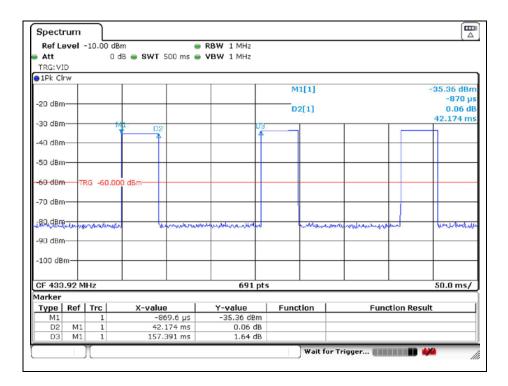
 $T_{\text{on+off}} = 100 \text{ ms}.$

 $T_{on} = 42.17$ ms.

Duty Cycle = 20log (T $_{\rm on}$ / T $_{\rm on+off}$) = 20log (0.4217) = -7.50 dB.

Remark;

- T_{on+off} = 100 ms (pulse train is 100 ms instead of 157.39 ms).





7. Antenna Requirement

7.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section §15.203, 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.

7.2. Antenna Connected Construction

Antenna used in this product is PCB Pattern Antenna with gain of -21.88 dB i.

- End of the Test Report -