

TEST REPORT

of

FCC Part 15 Subpart C §15.209 and §15.231
IC RSS-210 Issue 11 and RSS-Gen Issue 6

FCC ID: TQ8-FOB-4FC0M44
IC Certification: 5074A-FOB4FC0M44

Equipment Under Test : FOB Smart Key
Model Name : FOB-4FC0M44
Variant Model Name(s) : FOB-4FC0M33
FCC Applicant : HYUNDAI MOBIS CO., LTD.
IC Applicant : Hyundai MOBIS Co., Ltd
Manufacturer : Hyundai Mobis Co., Ltd.
Date of Receipt : 2026.08.24
Date of Test(s) : 2026.08.24 ~ 2026.08.28
Date of Issue : 2026.08.31

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:



Jangwon Lee

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

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

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1.2. Details of Applicant

FCC Applicant : HYUNDAI MOBIS CO., LTD.

FCC Address : 203, Teheran-ro, Gangnam-gu, Seoul, South Korea, 135-977

IC Applicant : Hyundai MOBIS Co., Ltd

IC Address : 203, Teheran-ro, Gangnam-gu, Seoul, Korea (Republic Of), 135-977

Contact Person : Choe, Seung-hoon

Phone No. : +82 31 260 0098

1.3. Details of Manufacturer

Company : Hyundai Mobis Co., Ltd.

Address : 203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

1.4. Description of EUT

Kind of Product	FOB Smart Key
Model Name	FOB-4FC0M44
Variant Model Names	FOB-4FC0M33
Serial Number	Conducted: 001 Radiated: 002
Power Supply	DC 3.0 V
Frequency Range	Tx: 433.92 MHz, Rx: 125.00 kHz
Modulation Type	FSK
Number of Channel	1
Antenna Type	PCB Pattern Antenna
Antenna Gain*	-8.71 dBi
H/W Version	1.00
S/W Version	1.00
FVIN	N/A

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	101004	12/17/2025	Annual	12/17/2026
DC POWER SUPPLY	AGILENT	U8002A	MY48490027	12/02/2025	Annual	12/02/2026
Signal Generator	R&S	SMBV100A	255834	11/28/2025	Annual	11/28/2026
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	10/01/2025	Biennial	10/01/2027
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	03/09/2026	Biennial	03/09/2028
Horn Antenna	R&S	HF906	100326	03/03/2026	Annual	03/03/2027
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	CO3000/963/38330 516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38330 516/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	Qualwave	QT50P-40-KK-1.5	24270074	04/10/2026	Semi-Annual	10/10/2026
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	04/17/2026	Semi-Annual	10/17/2026
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	04/17/2026	Semi-Annual	10/17/2026
EMI Test Receiver	R&S	ESU26	100109	01/21/2026	Annual	01/21/2027
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual	09/10/2026
SIGNAL CONDITIONING UNIT	R&S	SCU18F	101058	06/02/2026	Annual	06/02/2027
Preamplifier	H.P.	8447F	2944A03909	03/31/2026	Annual	03/31/2027
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-4 OSS	7	02/25/2026	Annual	02/25/2027

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C, IC RSS-210 Issue 11 and RSS-Gen Issue 6			
Section in FCC	Section in IC	Test Item(s)	Result
15.209(a) 15.231(b)	RSS-210 Issue 11 A.1, Table A1 RSS-Gen Issue 6 7.4.3	Radiated emission, Spurious Emission and Field Strength of Fundamental	Pass
15.231(c)	-	Bandwidth of Operation Frequency	Pass
-	RSS-210 Issue 11 A.1.4 RSS-Gen Issue 6 5.1	Occupied Bandwidth	Pass
15.231(a)	RSS-210 Issue 11 A.1.2	Transmission Time	Pass
15.207	RSS-Gen Issue 6 7.4.2	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. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020 for FCC and ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 for ISSED), were used in the measurement of the DUT.

All measurement procedures in the test report comply with both ANSI versions, with no effect on the test results

1.8. Measurement Uncertainty

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

Parameter	Uncertainty	
Occupied Bandwidth	0.80 kHz	
Bandwidth of Operating Frequency	0.77 kHz	
Transmission Time	0.19 ms	
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	5.50 dB
	V	5.10 dB
Radiated Emission, above 1 GHz	H	3.50 dB
	V	3.40 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

1.9. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL007281	2026.08.31	Initial

1.10. Description of Variant Models

Model name		Description
Basic model	FOB-4FC0M44	- Basic model (8 buttons)
Variant model	FOB-4FC0M33	- Same as basic model, but the difference in the number of external buttons of the product (6 buttons)

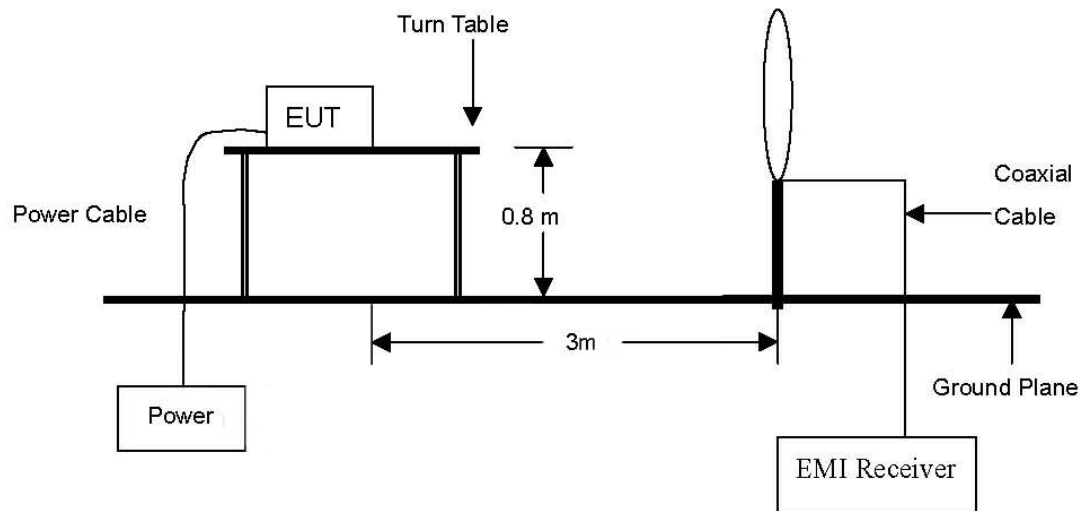
Note;

All the test items were performed with basic model

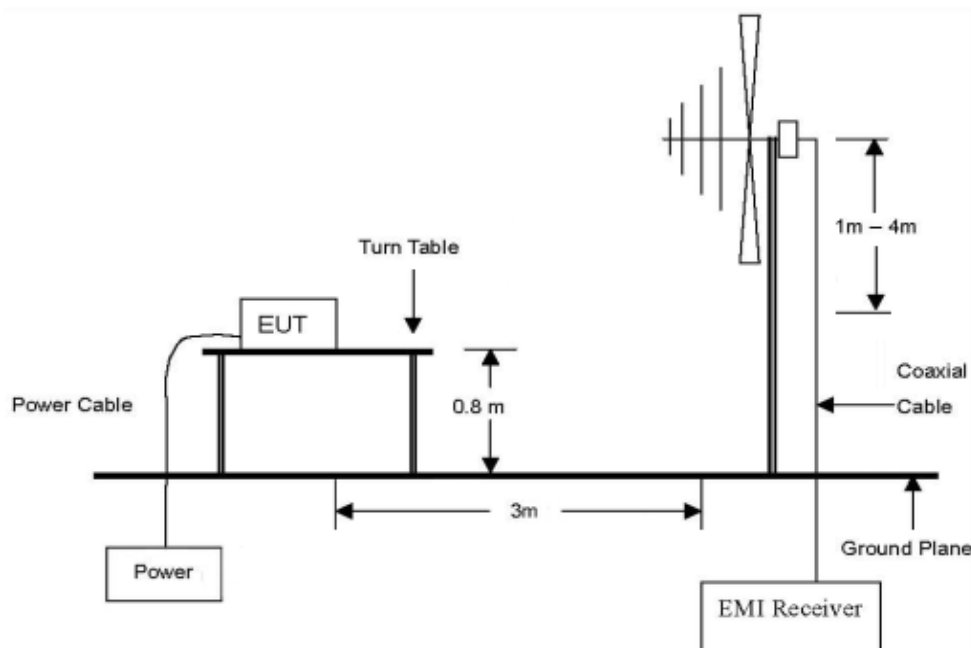
2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

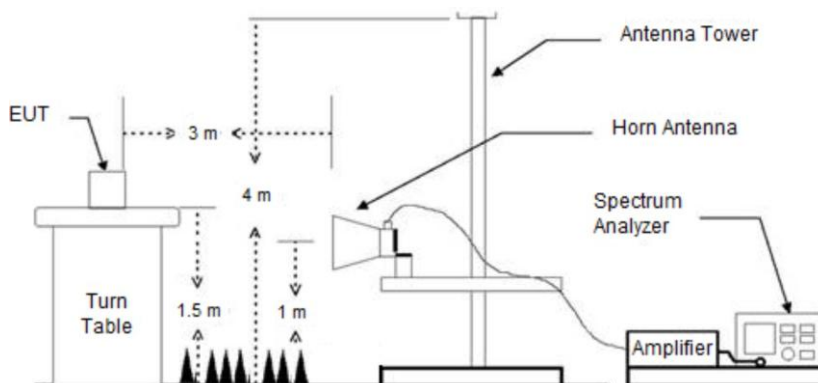
The diagram below shows the test setup that is utilized to make the measurements for emission below 30 MHz.



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



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



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 (MHz)	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 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

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

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 (MHz)	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 MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu V/m$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu V/m$ 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 6, 7.4.3, The radio apparatus shall comply with the field strength limits shown in table 4 and table 5. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 4 – General Field Strength Limits below 30 MHz

Frequency (MHz)	Magnetic field strength limit ⁱ ($\mu\text{A/m}$)	Measurement distance (m)
0.009 to 0.49	$6.37/f$ (f in kHz)	300
0.49 to 1.705	$63.7/f$ (f in kHz)	30
1.705 to 30	0.08	30
i. The more stringent limit shall apply at the transition frequency.		

Table 5 – General field strength limits at and above 30 MHz

Frequency (MHz)	Electric field strength limit ⁱ at 3m distance ($\mu\text{V/m}$)
30 to 88	100
88 to 216	150
216 to 960	200
> 960	500
i. The more stringent limit shall apply at the transition frequency.	

Note¹: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2.2.2.2. Momentarily Operated Devices

According to A.1 of RSS-210 Issue 11.

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.1.5.

Table A1 - Permissible Field Strength Limits for Momentarily Operated Devices

Fundamental Frequency (MHz), Excluding Restricted Frequency Bands Specified in RSS-Gen	Field Strength of the Fundamental Emissions ($\mu\text{V}/\text{m}$ 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 MHz:

For 130-174 MHz: Field Strength ($\mu\text{V}/\text{m}$) = $(56.82 \times f) - 6136$

For 260-470 MHz: Field Strength ($\mu\text{V}/\text{m}$) = $(41.67 \times f) - 7083$

** Frequency bands 225-328.6 MHz 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 C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024 for ISED),.

2.3.1. Test Procedures for emission below 30 MHz

- 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.
- 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.
- 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.
- 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 MHz to 1 000 MHz

- 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.
- 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.
- 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.
- 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.
- For measurements below 1 GHz resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements.

2.3.3. Test Procedures for emission above 1 GHz

- 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.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1 GHz.

2.4. Test Result

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

2.4.1. Field Strength of Fundamental

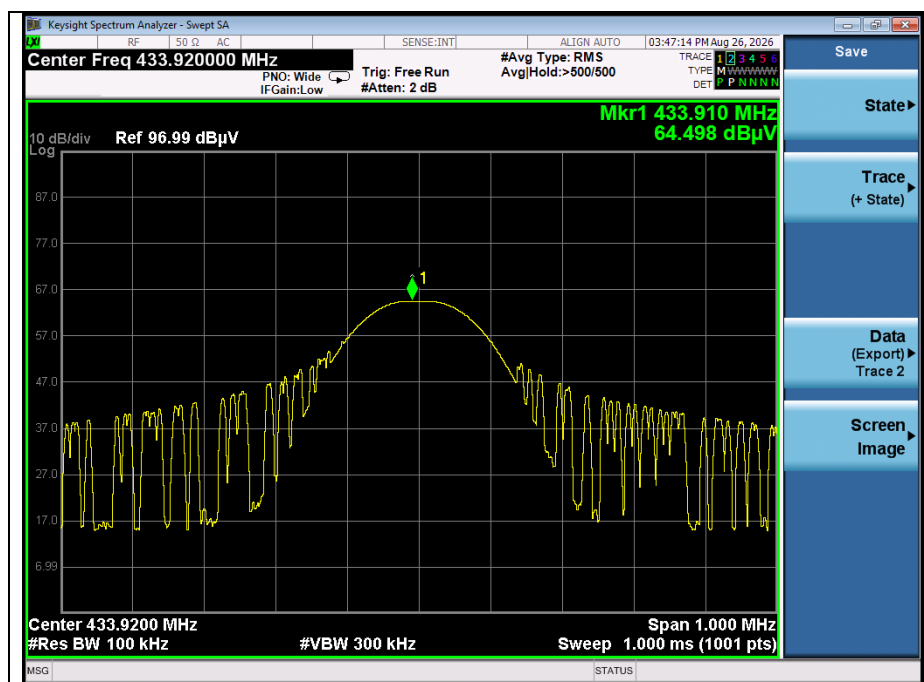
All emissions tested both horizontal and vertical. The following table shows the highest levels of radiated emissions on the worst polarization.

Frequency (MHz)	Reading (dBμV)	Detect Mode	Ant. Pol.	AF (dB/m)	CL (dB)	DF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
433.91	64.50	Peak	V	22.30	3.19	-	89.99	100.83	10.84
433.91	-	Average	V	-	-	-10.31	79.68	80.83	1.15

Remark;

- 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 **Y – axis**.
 Definition of DUT for three orthogonal planes is described in the test setup photos.
- 3 m Limit (dBμV/m) = $20\log [41.67(F_{MHz}) - 7083] = 80.83$
- Peak Result = Reading + Antenna Factor + Cable Loss
- Average Result = Peak Result + DF
- DF (Duty Cycle Correction Factor): $20\log (T_{on} / 100 \text{ ms}) = 20\log (30.50 / 100) = -10.31$
 - $T_{on} = 30.50 \text{ ms}$.
 - $T_{on+off} = 100.00 \text{ ms}$ (pulse train is 100 ms instead of 134.50 ms).

- Test plot



2.4.2. Radiated Spurious Emission below 1 000 MHz

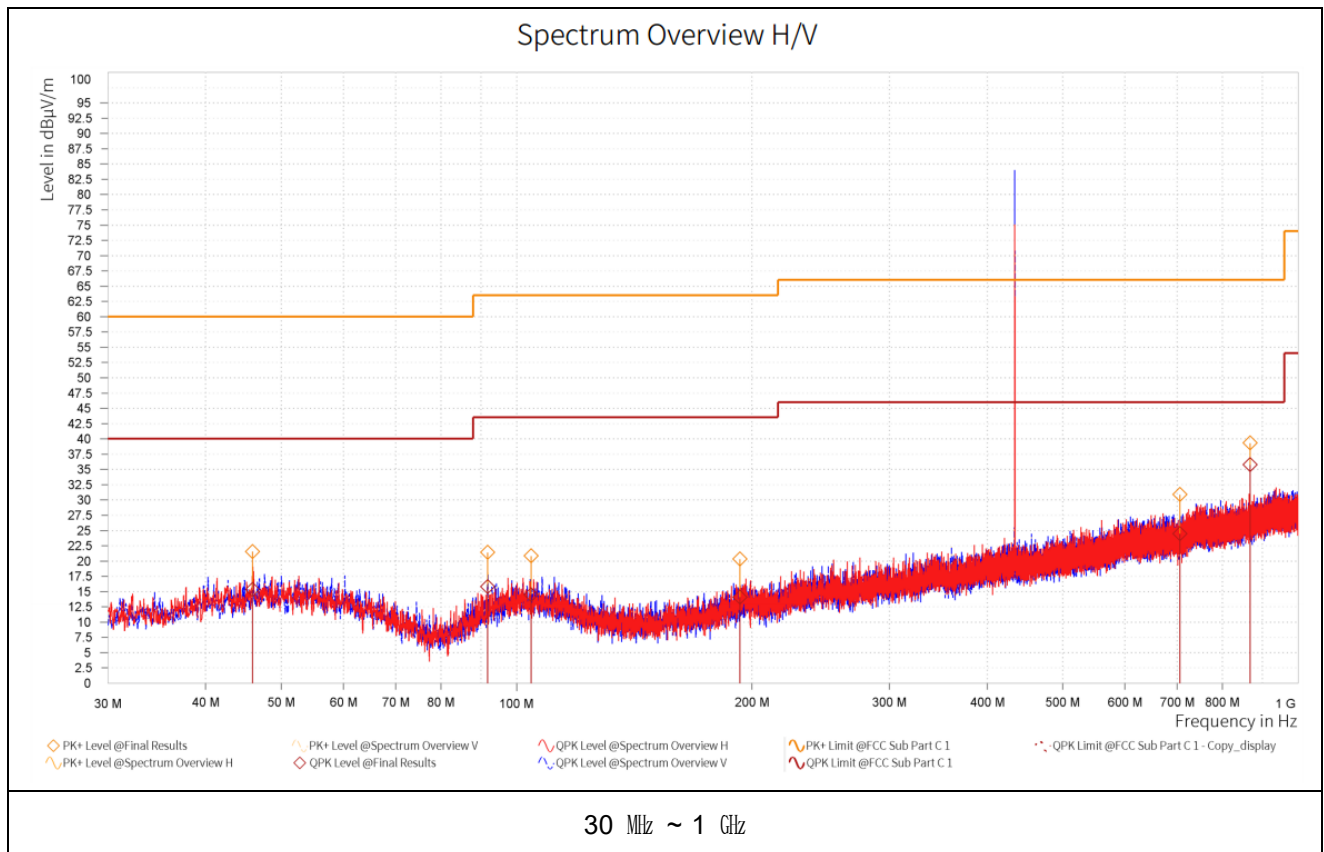
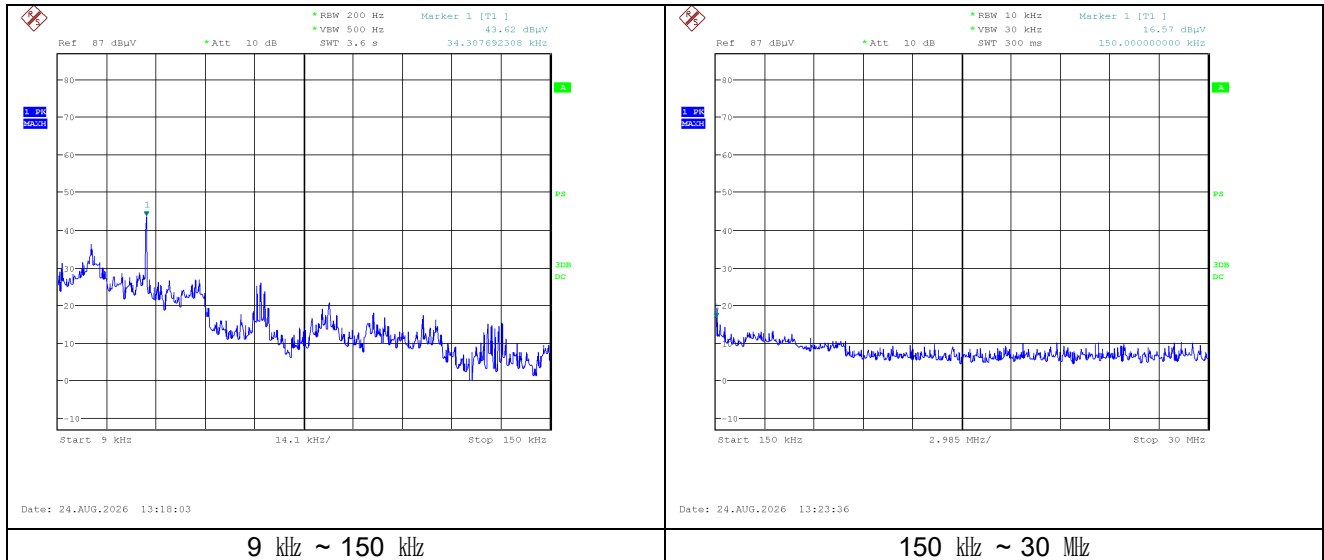
The following table shows the highest levels of radiated emissions.
The frequency spectrum from 9 kHz to 1 000 MHz was investigated.

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Below 30.00	Not detected	-	-	-	-	-	-
Above 30.00	Not detected	-	-	-	-	-	-

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 (dBμV/m) = $20\log [41.67(F_{\text{MHz}}) - 7083] - 20$ dBμV/m = 60.83 dBμV/m.
3. According to § 15.31(o), Emission levels are not reported much lower than the limits by over 20 dB.
4. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
5. Radiated spurious emission measurement as below.
(Actual = Reading + Correction)
(Correction = Antenna Factor + AMP Factor + Cable Loss)

- Test plots



2.4.3. Radiated Spurious Emissions above 1 000 MHz

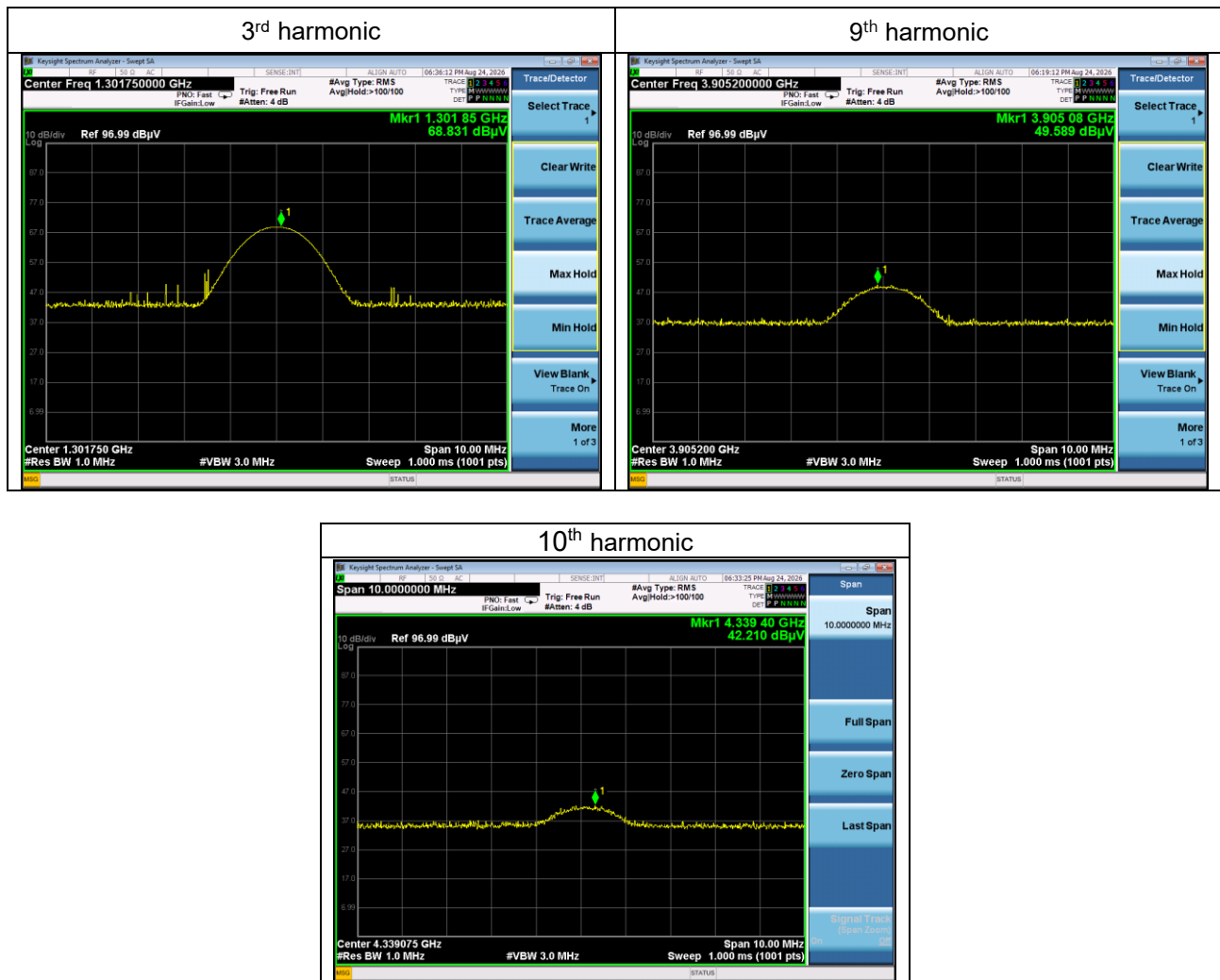
The following table shows the highest levels of radiated emissions.
The frequency spectrum above 1 000 MHz was investigated.

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*1 301.85	68.83	Peak	H	25.10	-36.92	-	57.01	74.00	16.99
*1 301.85	-	Average	H	-	-	-10.31	46.70	54.00	7.30
*3 905.08	49.59	Peak	H	32.29	-31.68	-	50.20	74.00	23.80
*4 339.40	42.21	Peak	V	32.12	-28.85	-	45.48	74.00	28.52
Above 4 400.00	Not detected	-	-	-	-	-	-	-	-

Remark;

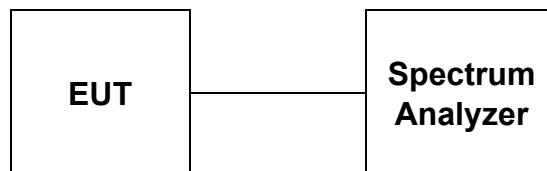
- To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z).
- 3 m Limit (dBμV/m) = $20\log [41.67(F_{\text{MHz}}) - 7083] - 20$ dBμV/m = 60.83 dBμV/m.
- Correction Factors = AF + AMP + CL + DF.
- Peak Result = Reading + Correction Factors.
- Average Result = Peak Result + DF.
- DF (Duty Cycle Correction Factor): $20\log (T_{\text{on}} / 100 \text{ ms}) = 20\log (30.50 / 100) = -10.31$
- $T_{\text{on}} = 30.50 \text{ ms}$.
- $T_{\text{on+off}} = 100 \text{ ms}$ (pulse train is 100 ms instead of 134.50 ms).
- "*" means the restricted band.
- According to § 15.31(o), Emission levels are not reported much lower than the limits by over 20 dB.
- The maximized peak measured value complies with the average limit, to perform an average measurement is unnecessary.

- Test plots



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 MHz and below 900 MHz. For devices operating above 900 MHz, 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

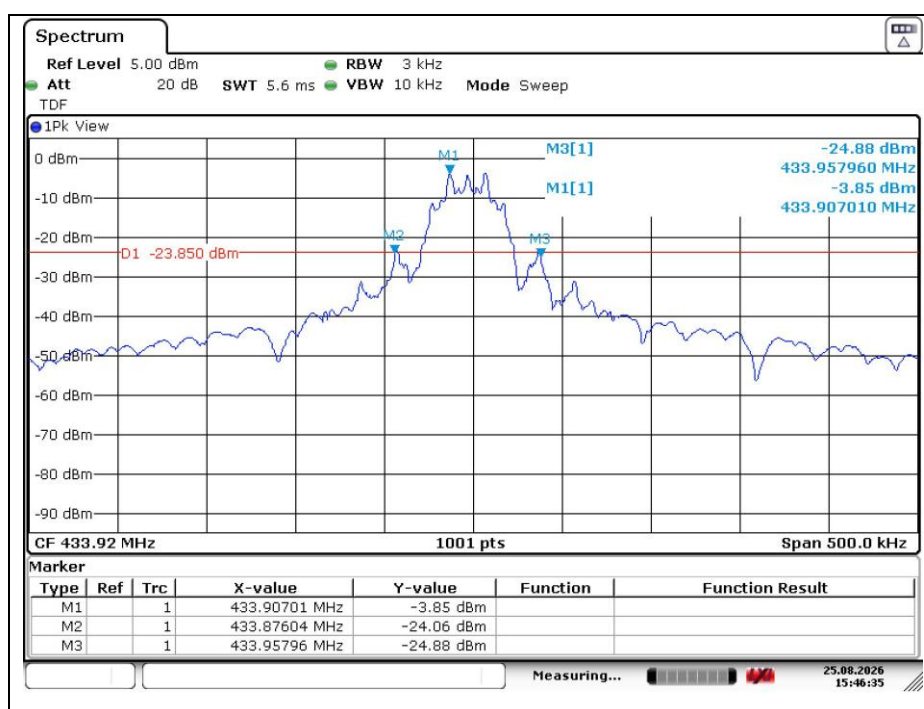
1. The transmitter output is connected to the spectrum analyzer.
2. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.
3. The bandwidth of fundamental frequency was measured and recorded.

3.4. Test Result

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

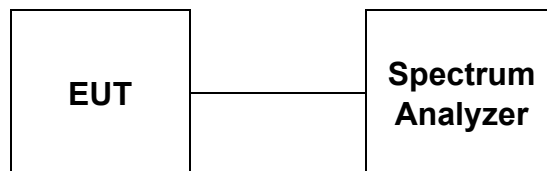
Frequency (MHz)	Bandwidth of Operation Frequency (kHz)	Limit (kHz)	Remark
433.92	81.92	1 084.80	The point 20 dB down from the modulated carrier

- Test plot



4. Occupied Bandwidth

4.1. Test Setup



4.2. Limit

According to A.1.4 of RSS-210 Issue 11, 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 MHz and 900 MHz. For devices operating above 900 MHz, the occupied bandwidth shall be less than or equal to 0.5 % of the centre frequency.

4.3. Test Procedure

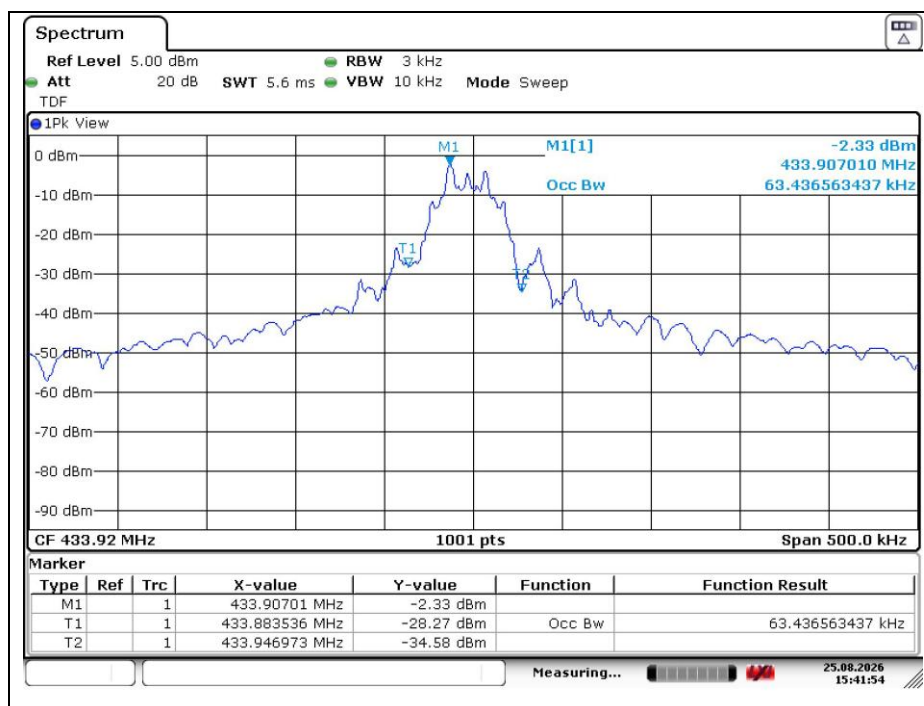
1. The transmitter output is connected to the spectrum analyzer.
2. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.
3. The bandwidth of fundamental frequency was measured and recorded.

4.4. Test Result

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

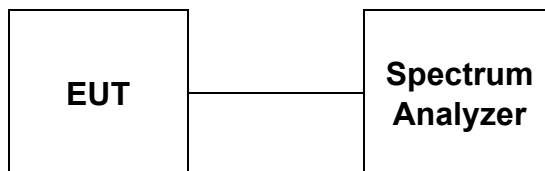
Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Remark
433.92	63.44	1 084.80	99 % Occupied bandwidth

- Test plot



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.1.2(a) of RSS-210 Issue 11, 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

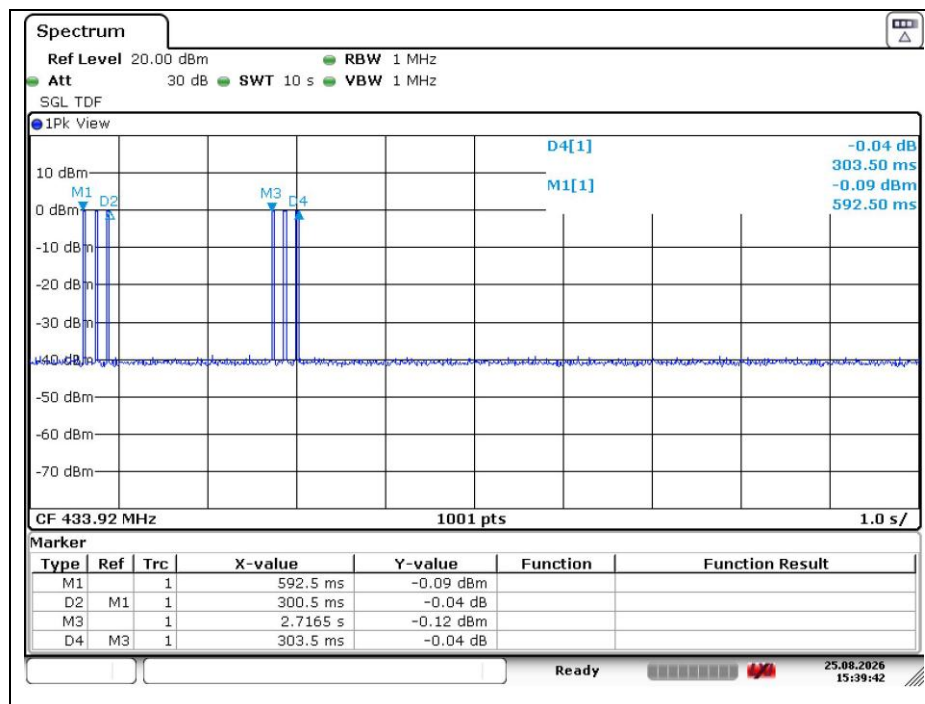
1. The transmitter output is connected to the spectrum analyzer.
2. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW = 1 MHz, VBW = 1 MHz, Span = 0 Hz, Sweep Time = 10 sec.
3. The bandwidth of fundamental frequency was measured and recorded.

5.4. Test Result

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

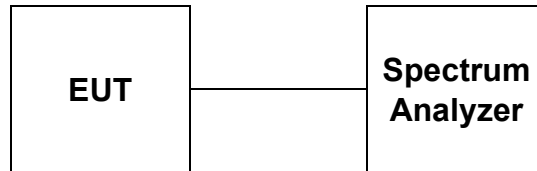
Frequency (MHz)	Transmission Time (sec)	Limit (sec)	Remark
433.92	2.428	Same or less than 5	Pass

- Test plot



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.

6.4. Test Result

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

CALCULATION:

Average Reading = Peak Reading (dB μ 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	30.5 ms	100	-10.31 dB

T_{on+off} = 100 ms.

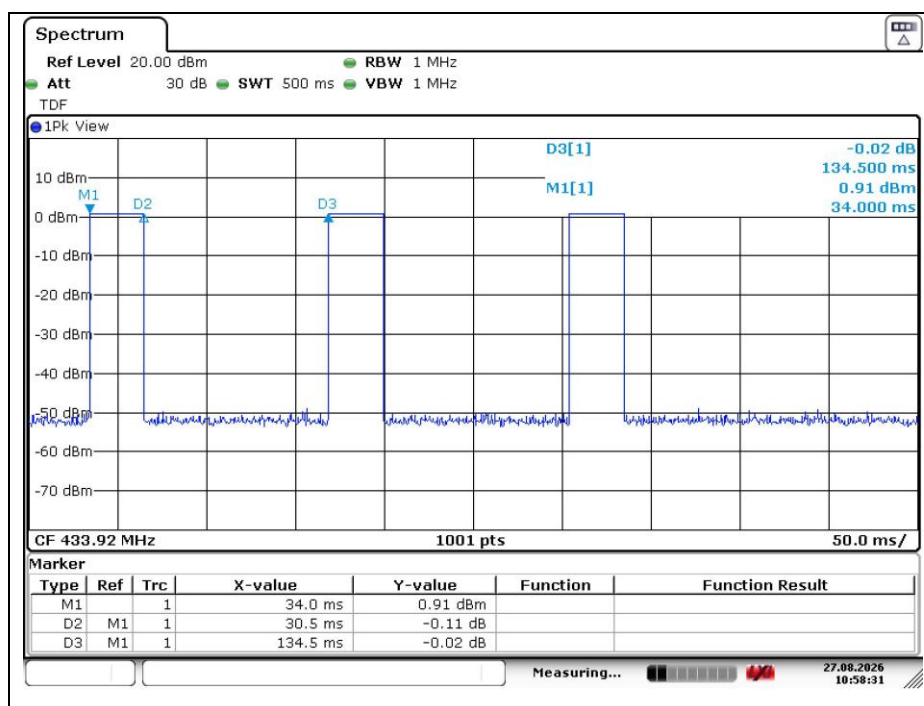
T_{on} = 30.5 ms.

Duty Cycle = 20log (T_{on} / T_{on+off}) = 20log (0.305) = -10.31 dB.

Remark;

- T_{on+off} = 100 ms (pulse train is 100 ms instead of 134.5 ms).

- Test plot



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. 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2. Antenna Connected Construction

Antenna used in this product is PCB Pattern Antenna with gain of -8.71 dB i.

- End of the Test Report -