TEST REPORT

APPLICANT	:	NiceRF Wireless Technology LTD.
PRODUCT NAME	:	Wireless Module
MODEL NAME	:	RF4463Pro-433
BRAND NAME	:	G-NiceRF
IC	:	21278-RF4463PRO
STANDARD(S)	:	RSS-GEN Issue 5, RSS-210 Issue 11
RECEIPT DATE	:	2024-11-29
TEST DATE	:	2024-12-02 to 2024-12-09
ISSUE DATE	:	2025-01-08

Edited by: Zeng Xiaoying (Rapporteur)

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Change History		
Version	Date	Reason for change
1.0	2025-01-08	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	NiceRF Wireless Technology LTD.
Applicant Address:	309-314, Bldg A,Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China
Manufacturer:	NiceRF Wireless Technology LTD.
Manufacturer Address:	309-314, Bldg A,Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China

1.2. Equipment Under Test (EUT) Description

Product Name:	Wireless Module
Sample No.:	1#, 2#
Hardware Version:	V1.0
Software Version:	V1.0
Operating Frequency:	433.5MHz
Channel Number:	1
Antenna Type:	Spring Antenna
Antenna Gain:	2.15dBi
Power Level Setting:	3

Note 1: The test data of this report are referred to FCC report (Report No.: SZ20030282W01, FCC ID: 2AD66-RF4463Pro-FCC), additional test items have been done on this model in accordance with the requirements of ISED standard.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Test Standards and Results

The objective of the report is to perform testing according RSS-GEN and RSS-210 for the EUT IC ID Certification:

No	Identity	Document Title
1	RSS-GEN Issue 5 March 2019 Amendment 1	General Requirements for Compliance of Radio Apparatus
2	RSS-210, Issue 11 June 2024	Licence-Exempt Radio Apparatus: Category I Equipment

Test detailed items/section required by IC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	N.A	Antenna Requirement	N/A	N/A	PASS	No deviation
2	RSS-210 A.1.1(a)	The Max Transmission Time	Apr 14, 2020	Zhou Chuang	PASS Note1	No deviation
3	RSS-210 A.1.3	99% Bandwidth	Dec. 02, 2024	Lin Haoyang	PASS	No deviation
4	RSS-GEN 8.8	Conducted Emission	Apr 09, 2020	Huang Zhiye	PASS Note1	N/A
5	RSS-210 A.1.2(a)(b)	Permissible Field Strength and Radiated Emission	Dec. 03&09, 2024	Gao Jianrou	PASS	No deviation
6	RSS-Gen 8.10	Restricted Frequency Bands	Dec. 09, 2024	Gao Jianrou	PASS	No deviation

Note 1: The test results of this test item in this report refer to FCC report (Report No.: SZ20030282W01).

Note 2: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the"method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2. RSS-GEN & RSS-210 Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

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.

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. The Max Transmission Time

2.2.1.Requirement

According to RSS-210 A1.1, a manually operated transmitter shall be equipped with a push-to-operate switch and be under manual control at all transmission times. When released, the transmitter shall cease transmission (holdover time of up to 5 seconds is permitted)

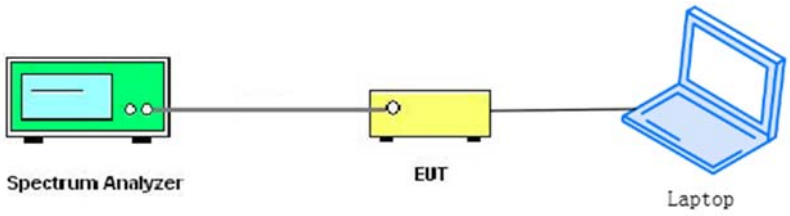
A transmitter activated automatically shall cease transmission within 5 seconds after activation (i.e. maximum 5 seconds of operation).

Periodic transmissions at regular predetermined intervals are not permitted, except as provided in Section A.1.1 However, polling or supervision transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmission does not exceed 2 seconds per hour for each transmitter.

Intentional radiators employed for radio control purposes during emergencies involving fire, security of goods (e.g. burglar alarms), and safety-of-life, when activated to signal an alarm, may operate during the interval of the alarm condition.

2.2.2.Test Description

A.Test Setup:



2.2.3.Test Procedure

Set the SPA Center Frequency=Fundamental frequency,

Span=0Hz, change the weep time until get the burst in the screen.

Set EUT as normal operation and press Transmitter button.

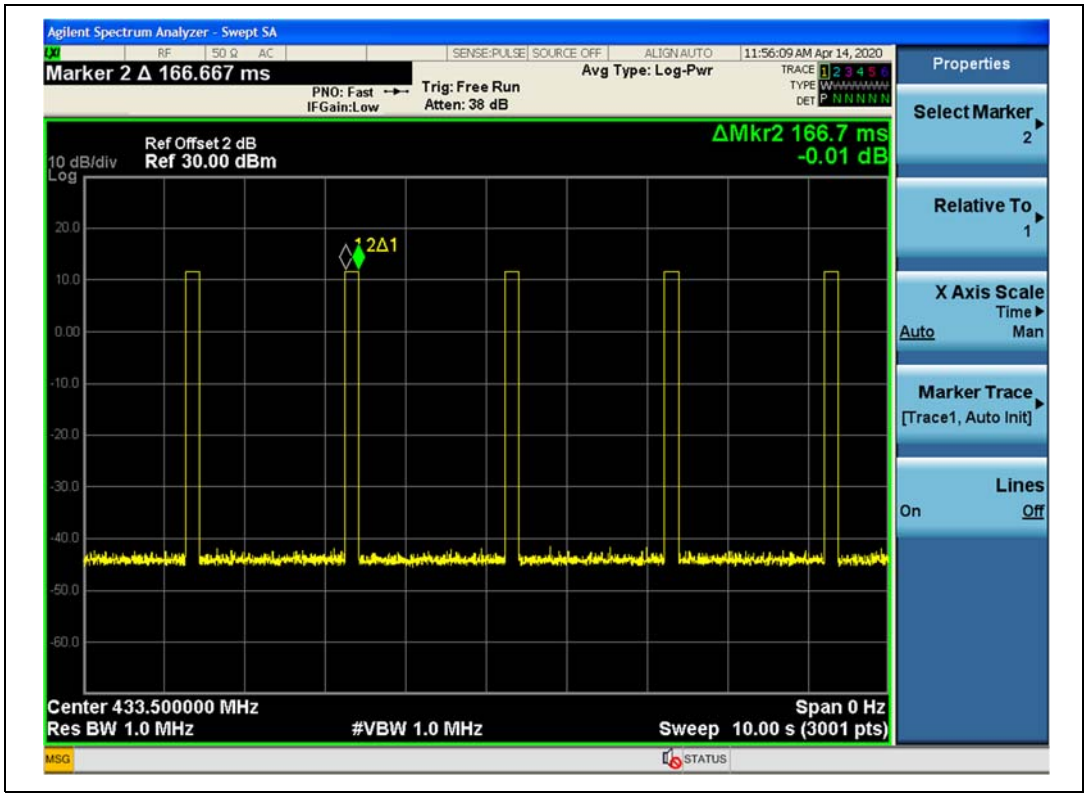
Set the SPA View. Delta Mark time.

2.2.4.Test Result

A.Test Verdict:

Frequency (MHz)	The max transmission time	Limit	Verdict
433.5	0.17s	≤5s	PASS

B.Test Plot:



(The max transmission time _433.5MHz)

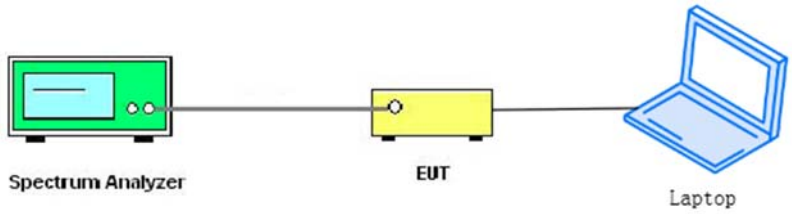
2.3. 99% Bandwidth

2.3.1.Requirement

According to RSS-210 A.1.3, the 99% bandwidth shall be no wider than 0.25% of the centre frequency for devices operating between 70 MHz and 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency.
As the center frequency for the device operating is 433.5MHz, thus, the 99% bandwidth limit is 1.084MHz.

2.3.2.Test Description

A.Test Setup:



2.3.3.Test Procedure

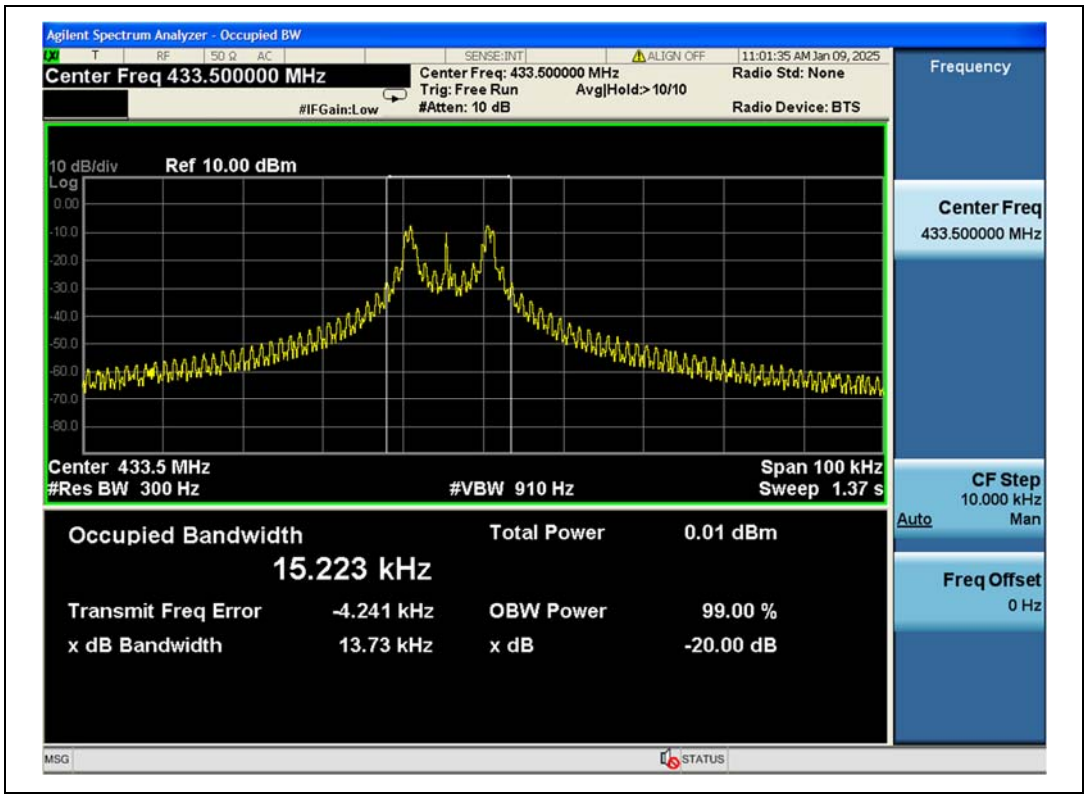
Set spectrum analyzer's Center Frequency =Fundamental frequency, RBW,VBW and span to applicable value with Peak in Max Hold, A PEAK output reading and 20db Bandwidth function in spectrum analyzer were taken.

2.3.4.Test Result

A.Test Verdict:

Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Verdict
433.5	15.223	≤1.084	PASS

B.Test Plot:



(Bandwidth_433.5MHz)

2.4. Conducted Emission

2.4.1.Requirement

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

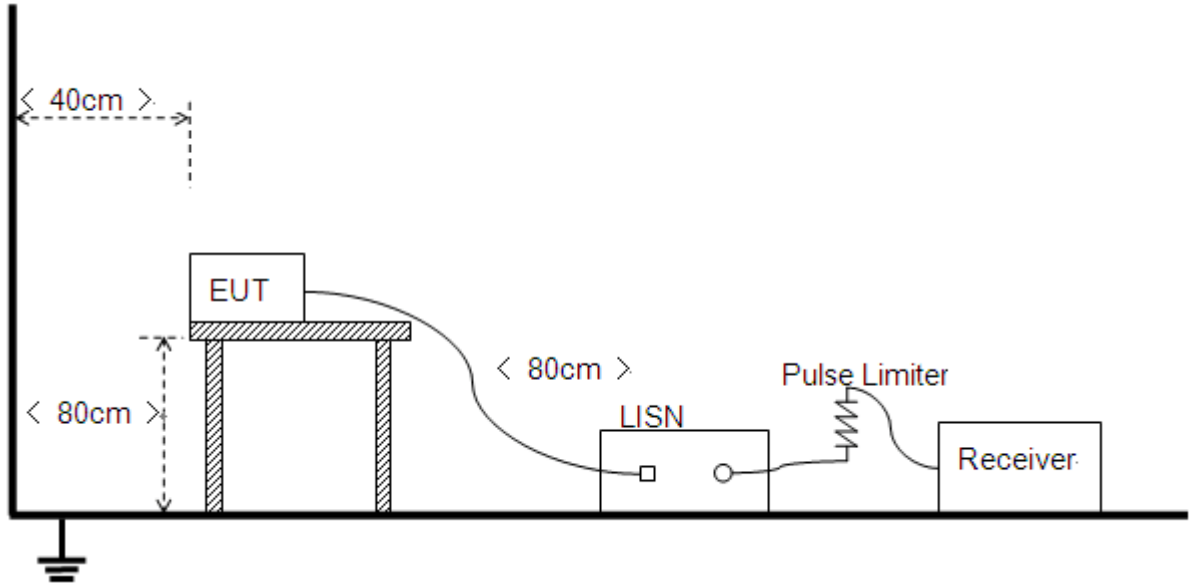
Note:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.4.2.Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

2.4.3.Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A.Test Setup:

Test Mode: EUT+ Adapter + 433.5MHz TX

Test Voltage: AC 120V/60Hz

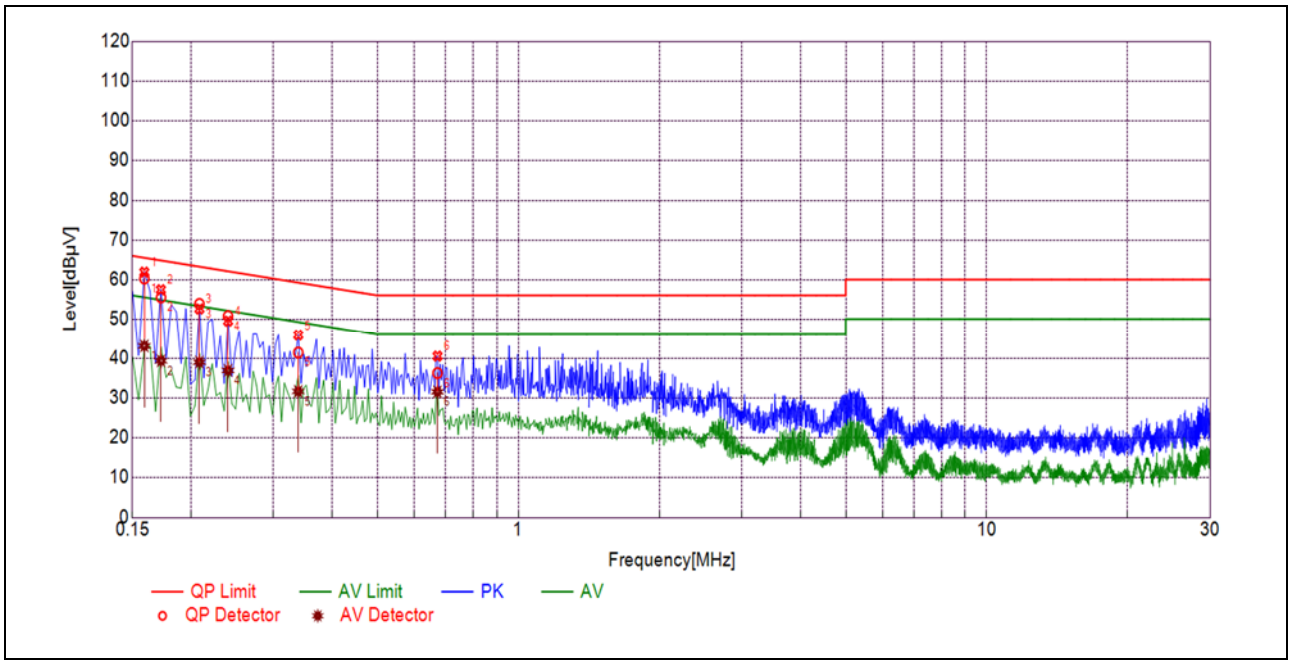
The measurement results are obtained as below:

$E\ [dB\mu V] = U_R + L_{Cable\ loss}\ [dB] + A_{Factor}$

U_R: Receiver Reading

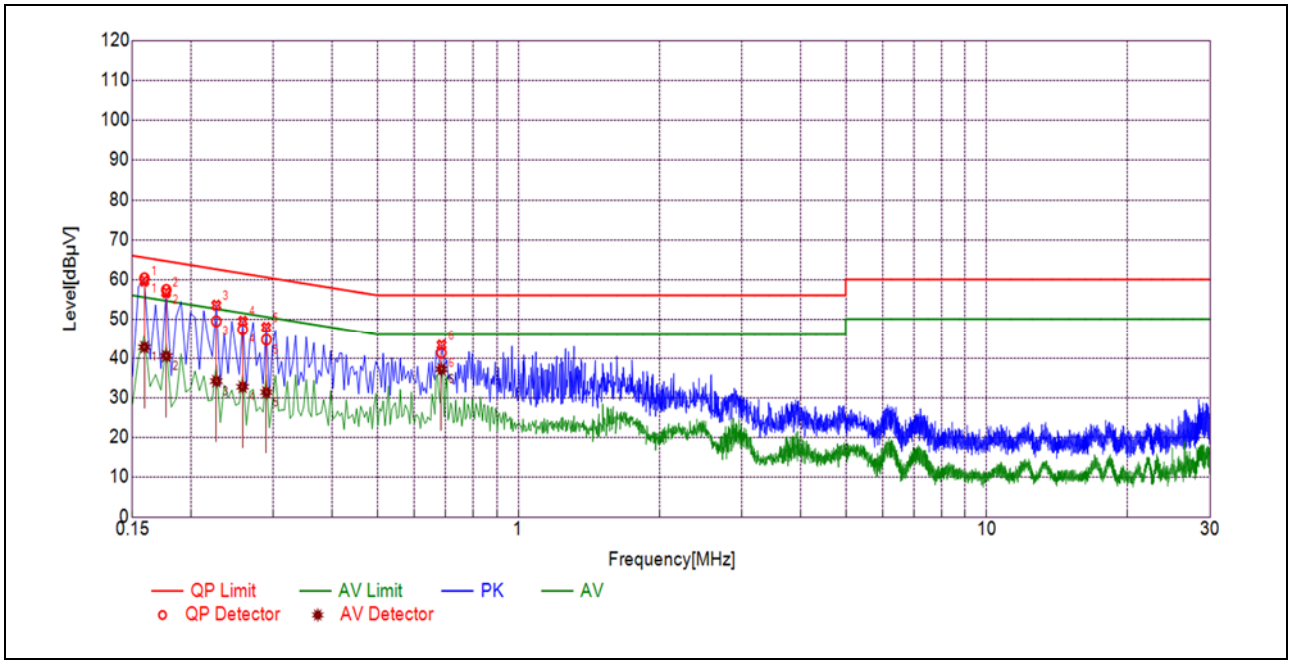
A_{Factor}: Voltage division factor of LISN

B.Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	60.29	43.05	65.51	55.51	Line	PASS
2	0.1726	55.51	39.30	64.83	54.83		PASS
3	0.2084	53.87	38.96	63.27	53.27		PASS
4	0.2399	50.77	36.87	62.10	52.10		PASS
5	0.3388	41.40	31.60	59.23	49.23		PASS
6	0.6718	36.21	31.49	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1591	60.31	42.73	65.51	55.51	Neutral	PASS
2	0.1771	57.38	40.51	64.62	54.62		PASS
3	0.2265	49.45	34.16	62.58	52.58		PASS
4	0.2578	47.30	32.70	61.50	51.50		PASS
5	0.2897	44.68	31.35	60.53	50.53		PASS
6	0.6849	41.31	37.16	56.00	46.00		PASS

2.5. Permissible Field Strength and Radiated Emission

2.5.1.Requirement

According to RSS-210 A1.2, following are the requirements for field strength of emissions:

a. The field strength of emissions from momentarily operated intentional radiators shall not exceed the limits in table A1, based on the average value of the measured emissions. The requirements of the “Pulsed operation” section of RSS-Gen apply for averaging pulsed emissions and limiting peak emissions.
Alternatively, compliance with the limits in table A1 may be demonstrated using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

b. Unwanted emissions shall be 10 times below the fundamental emissions field strength limits in table A1 or comply with the limits specified in RSS-Gen, whichever is less stringent.

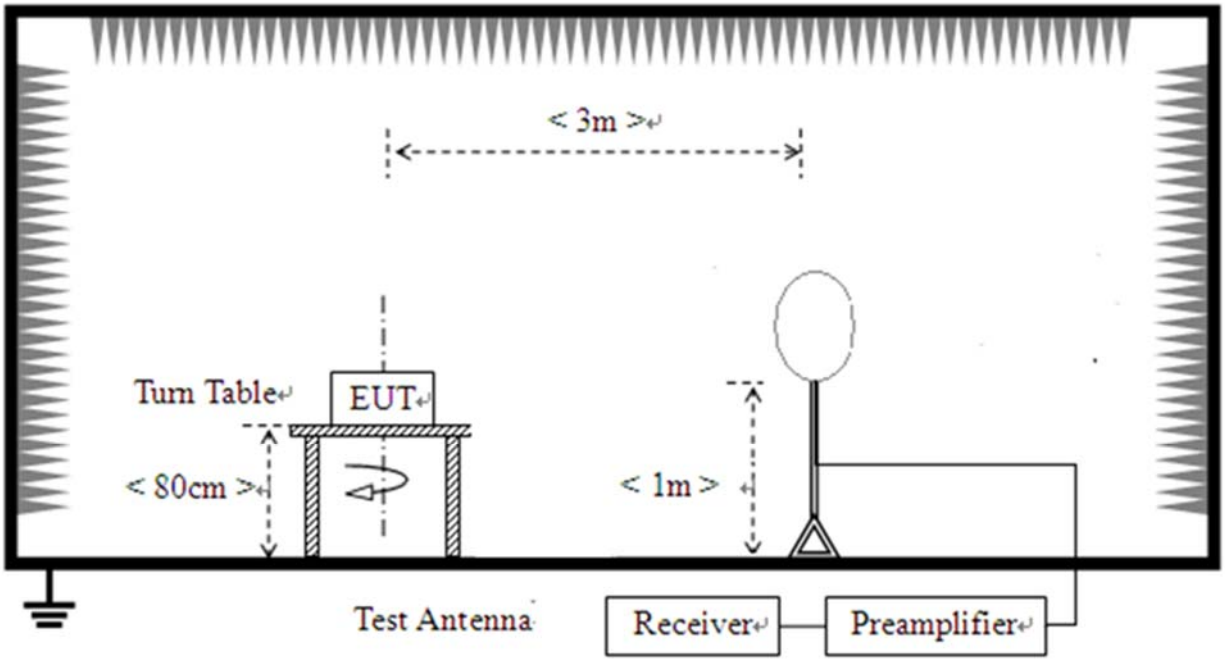
Fundamental frequency(MHz)	Field strength of fundamental (microvolts/meter)
70-130	1250
130-174	1250 to 3750
174-260	3750
260-470	3750 to 12500
Above 470	12500

Note: For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

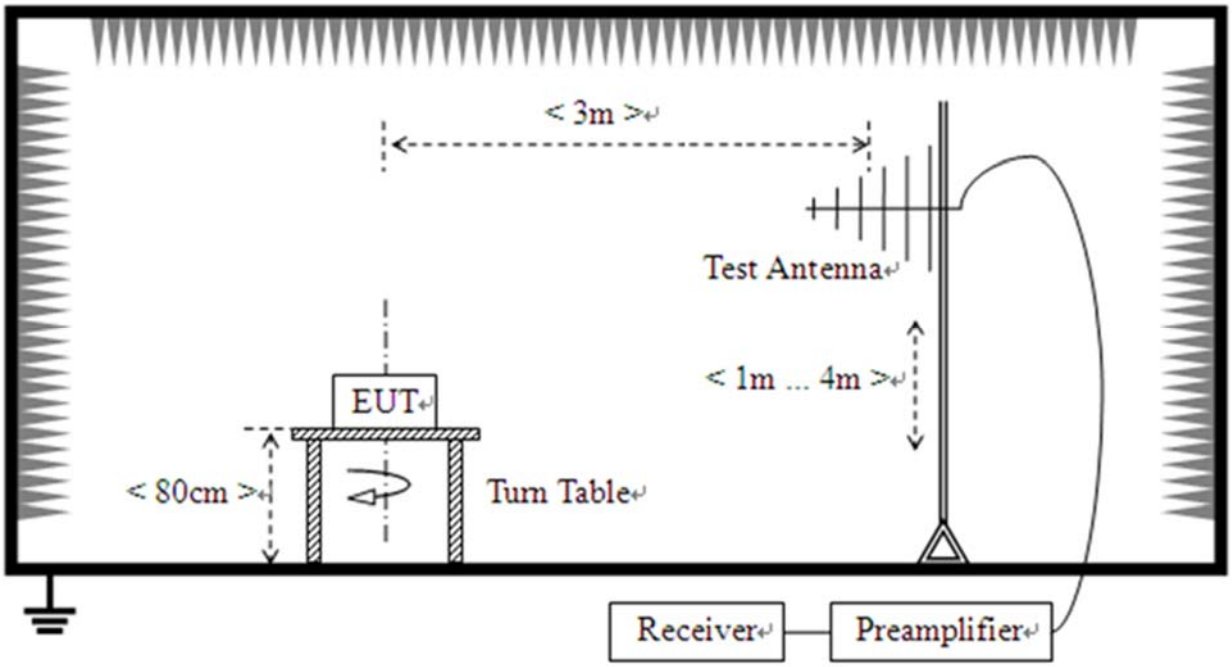
2.5.2.Test Description

Test Setup:

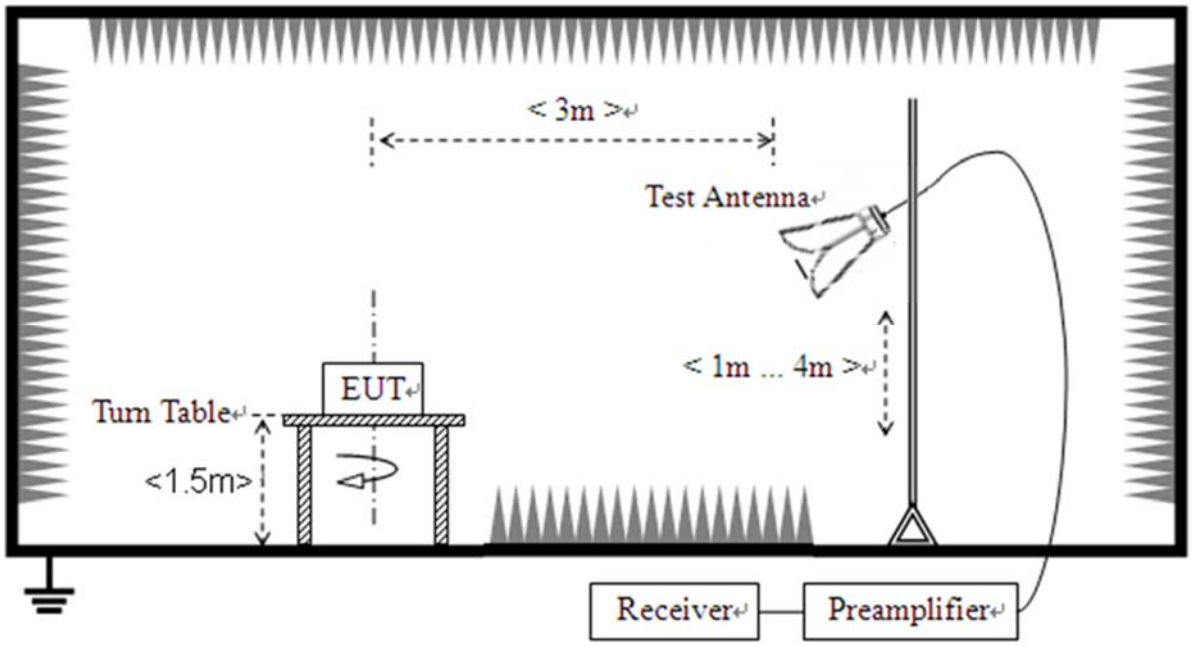
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz. Test site have a minimum area of the ground plane covered with RF absorbing material.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10:2013. For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, for radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2013.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.
For the Test Antenna:
(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be

higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.

2.5.3.Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

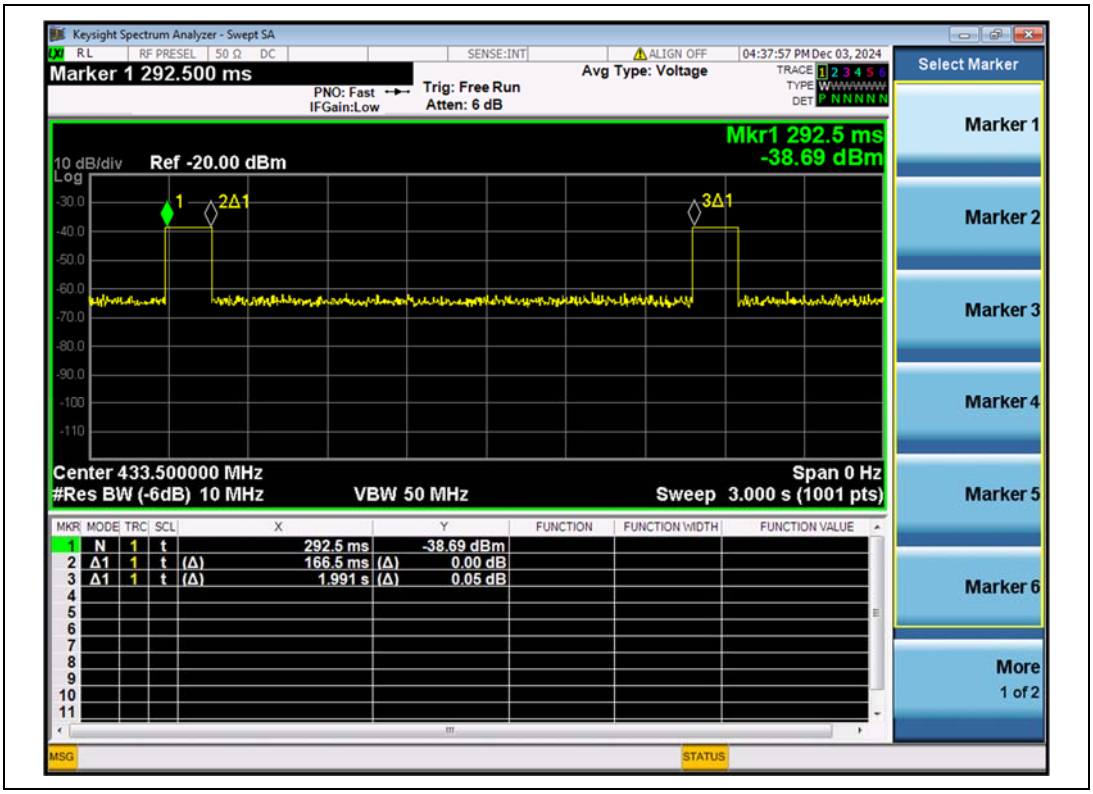
The measurement results are obtained as below:
$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
Final Emission_PK=E(peak)
Final Emission_AV=E+AV factor.
During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

The duty cycle is simply the on-time divided by the period:

Ton (ms):	166.5
Ton+Toff (ms):	1991
Duty cycle (%):	8.36

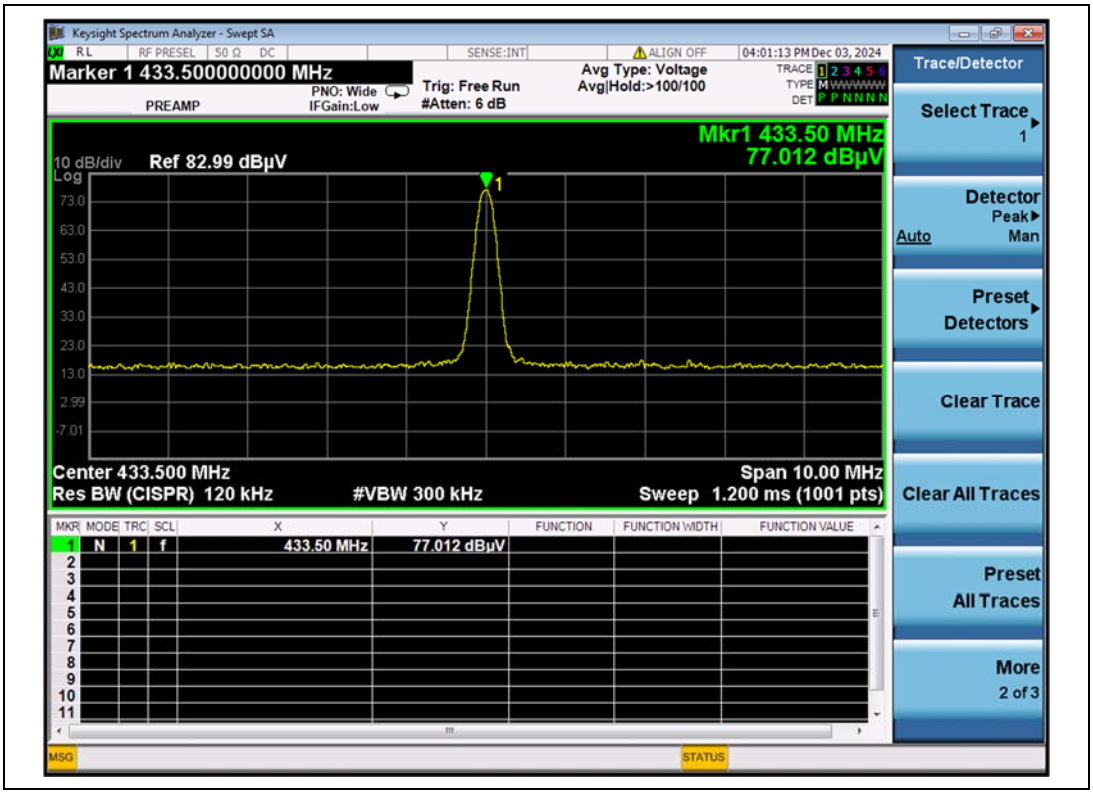
Therefore, the average factor is found by 20log (Duty cycle) =-21.55



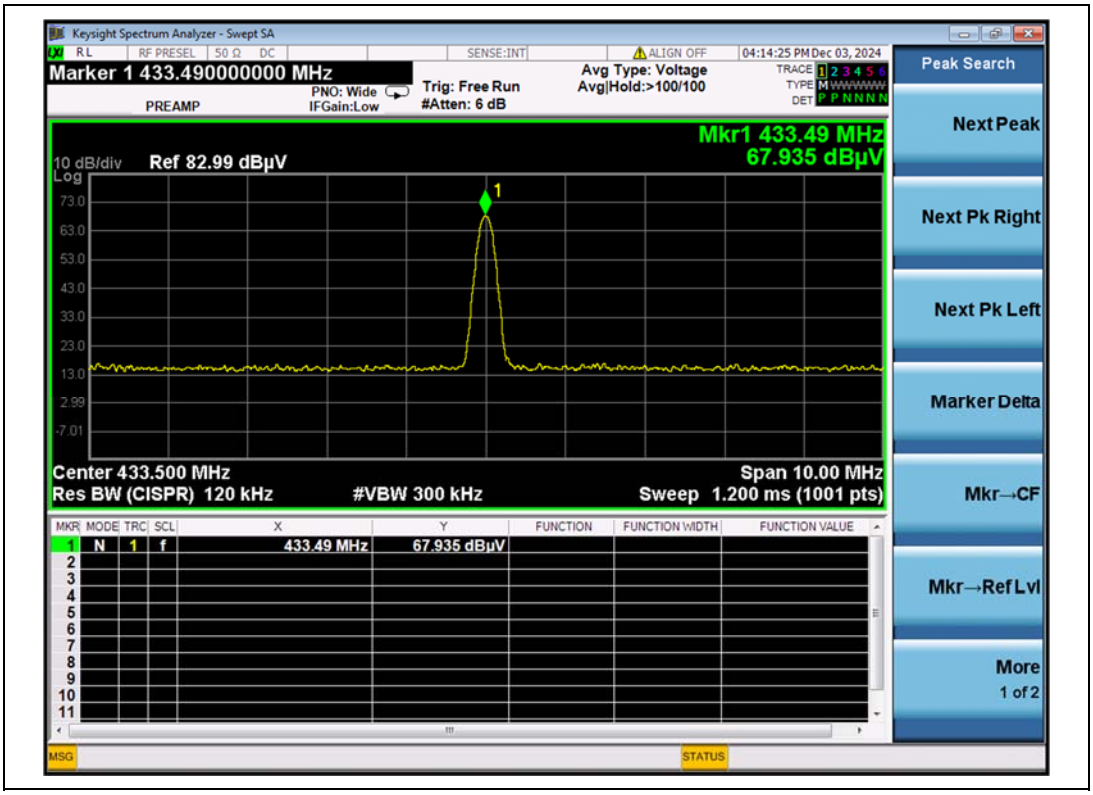
(Duty cycle)

A.Field strength of fundamental

Fre. (MHz)	ANT	Receiver Reading U_R (PK) (dBuV)	A_T (dB)	A_{Factor} (dB@ 3m)	Final Emission _PK (dBuV/m)	Limit-PK (dBμV/m)	AV factor (dB)	Final Emission _AV (dBuV/m)	Limit-AV (dBμV/m)	Verdict
433.5	H	77.012	4.30	15.50	96.812	100.83	-21.55	75.262	80.83	PASS
433.5	V	67.935	4.30	15.50	87.735	100.83	-21.55	66.185	80.83	PASS

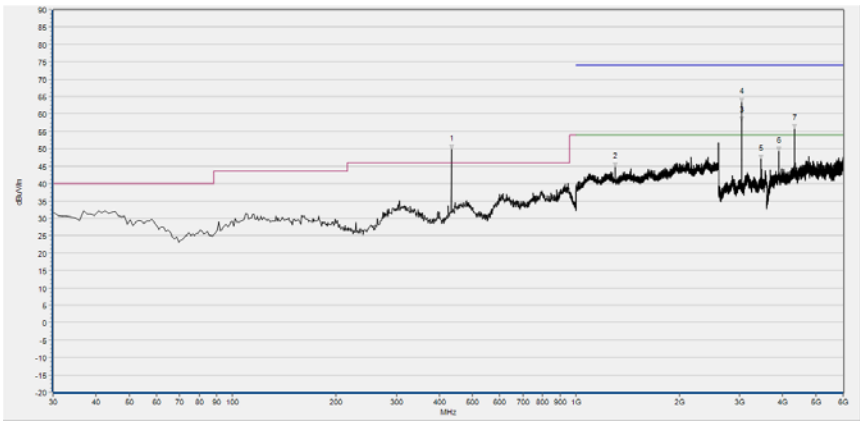


(433.5MHz, Antenna Horizontal)



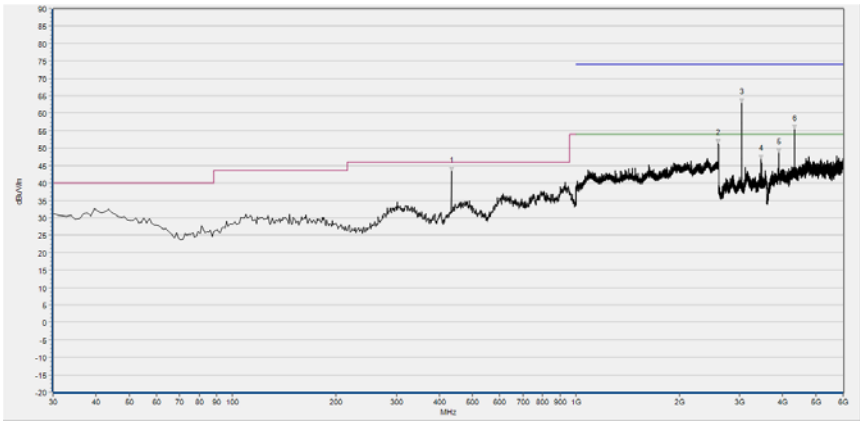
(433.5MHz, Antenna Vertical)

B.Radiated emission



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
433.520	49.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1300.267	44.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3035.200	58.04	N/A	36.49	74.00	N/A	54.00	Horizontal	PASS
3034.520	63.28	N/A	41.73	74.00	N/A	54.00	Horizontal	PASS
3464.280	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3901.520	49.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4334.680	55.78	N/A	34.23	74.00	N/A	54.00	Horizontal	PASS

(433.5MHz, Antenna Horizontal, 30MHz to 5GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
433.520	43.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2600.680	51.37	N/A	29.82	74.00	N/A	54.00	Vertical	PASS
3034.520	62.96	N/A	41.41	74.00	N/A	54.00	Vertical	PASS
3464.280	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3901.520	48.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4334.680	55.32	N/A	33.77	74.00	N/A	54.00	Vertical	PASS

(433.5MHz, Antenna Vertical, 30MHz to 5GHz)

2.6. Restricted Frequency Bands

2.6.1. Requirement

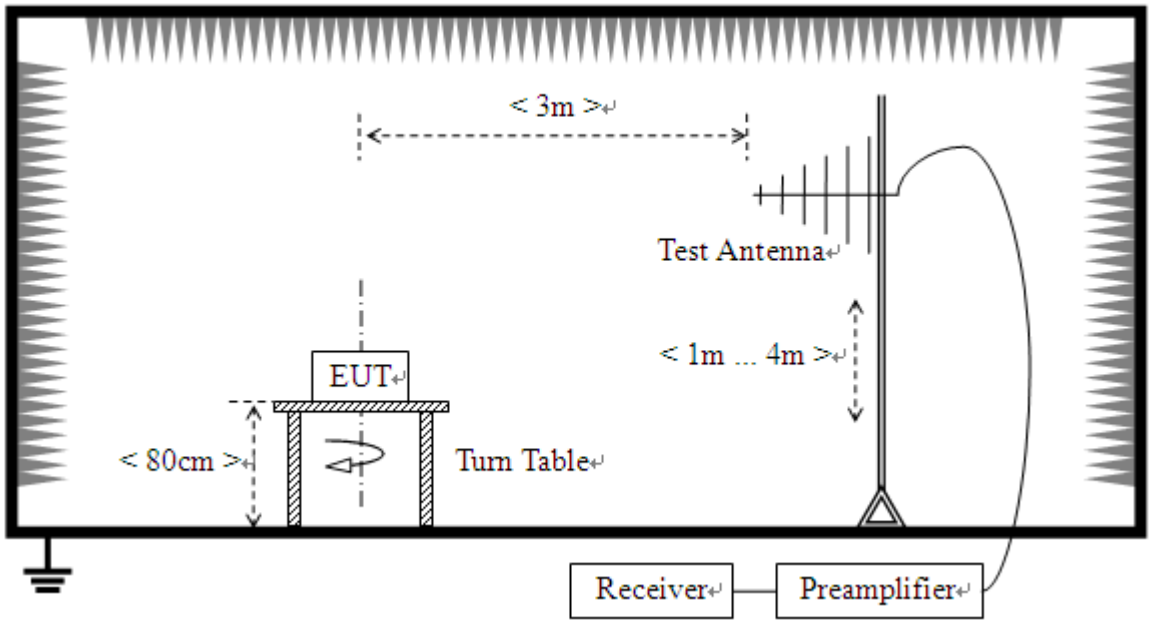
Restricted frequency bands, identified in below table, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses.

Unwanted emissions that fall into restricted frequency bands listed in below table shall comply with the limits specified in RSS-Gen, section 8.9.

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
1 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	([2])
13.36–13.41			

2.6.2.Test Description

1) Test Setup



The EUT is located in a 3 m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:
Test Antenna is 3 m away from the EUT. Test Antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength.

2.6.3.Test Result

The lowest and highest channels are tested to verify the Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
A_{Factor}: Antenna Factor at 3m

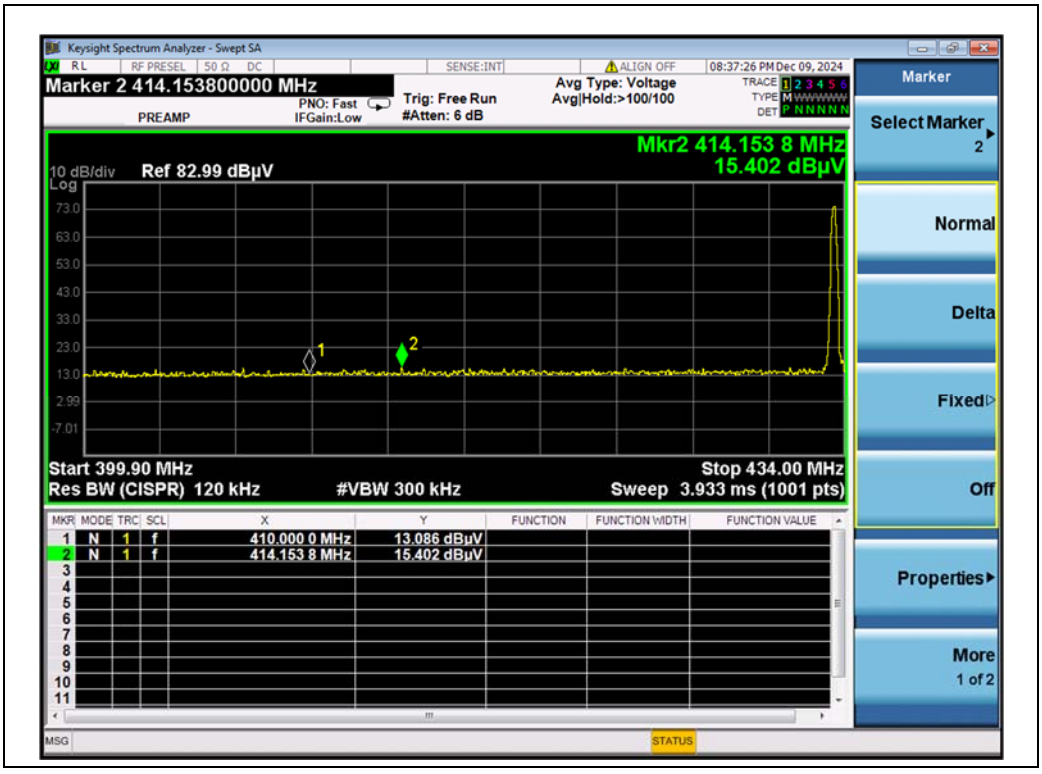
Note: All emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition (X axis) was recorded in this test report.

A.Test Verdict:

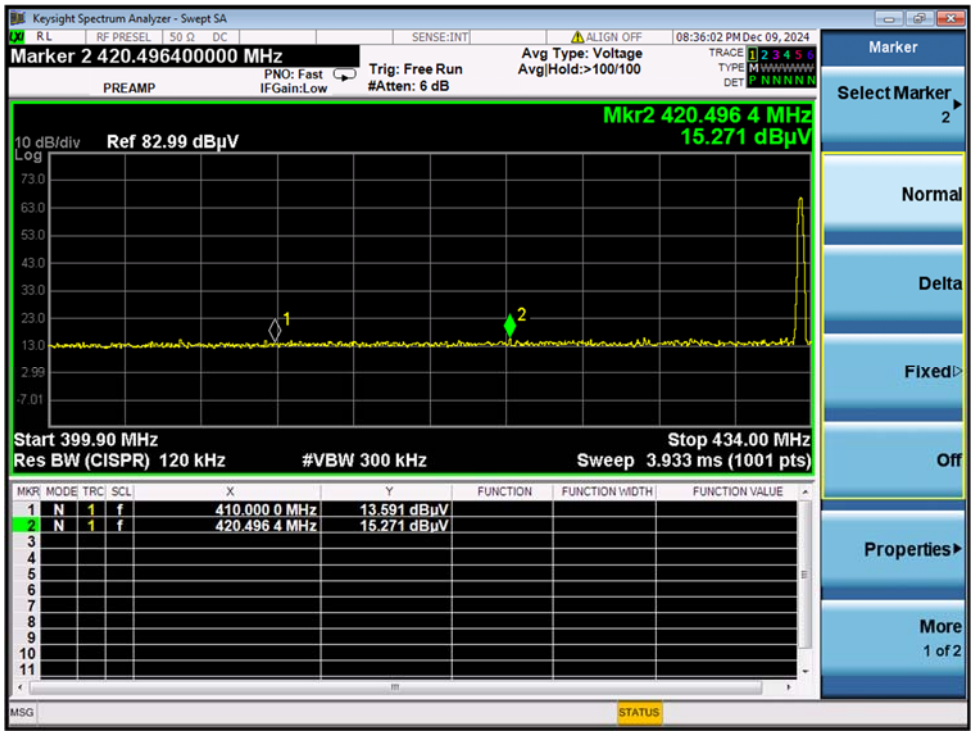
Frequency (MHz)	ANT	Detector	U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	E (dBμV/m)	Limit-QP (dBμV/m)	Verdict
		Peak/QP						
414.15	H	PK	15.40	4.30	15.50	35.20	46	PASS
420.50	V	PK	16.27	4.30	15.50	36.07	46	PASS

Note: According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak (QP) measurement.

B.Test Plot:



(Antenna Horizontal)



(Antenna Vertical)

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
99% Bandwidth	±5%
Transmission Time	±5%
Radiated Emission	±2.95dB

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

Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. Morlab facility is a registered (7183A) test laboratory with the site description on file with ISED.

4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.5.77.0418
MORLAB EMCR	MORLAB	V1.2

4.3 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT