



FCC Test Report

Application No.: DNT2502130078R0954-02796
Applicant: The Hoist Group Inc
Address of Applicant: 43 Harrison Ave Brooklyn NY 11211
EUT Description: microphone
Model No.: BOWYS8KITPT3
FCC ID: 2BMOQ-BOWYS8KITPT3
Power Supply: DC 3V From AA Battery
Trade Mark: N/A
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
ANSI C63.10: 2013
ETSI EN 300 422-1 V2.2.1 (2021-11)
Date of Receipt: 2025/02/15
Date of Test: 2025/02/16 to 2025/05/08
Date of Issue: 2025/05/08
Test Result: **PASS**

Prepared By: Wayne Lin (Testing Engineer)
Reviewed By: Pengyils Chen (Project Engineer)
Approved By: Yeine Chen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0	/	May.08, 2025	Valid	Original Report



1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Maximum Radiated Power	15.236(d)	ANSI C63.10 :2013	Clause 3.2	PASS
Occupied Bandwidth	15.236(f)(1)	ANSI C63.10 :2013	Clause 3.3	PASS
Emissions within the band	15.236(g)(1)	ETSI EN 300 422-1 V2.2.1 Section 4.2.4.2.2	Clause 3.4	PASS
Spurious Emissions	15.236(g)(4)	ETSI EN 300 422-1 V2.2.1 Section 4.2.4.1.2	Clause 3.5	PASS
Frequency Stability	15.236(f)(1)(iii)	15.236(f)(1)(iii)	Clause 3.6	PASS

Note:

1. "N/A" denotes test is not applicable in this test report.



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2 General Information

2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

2.2 General Description of EUT

Manufacturer:	GuangZhou Yision Electrical Appliance co.,Ltd
Address of Manufacturer:	No.1 zhuJi St,LongKou, HuaShan,HuaDu,Guangzhou
EUT Description:	microphone
Test Model No.:	BOWYS8KITPT3
Additional Model(s):	/
Chip Type:	KT08430
Serial Number	PR2502130078R0954
Power Supply	DC 3V From AA Battery
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	582.85MHz
Declared Channel Bandwidth:	100KHz
Type of Modulation:	FM
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module, <input type="checkbox"/> Mobile Device
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by applicant 3dBi
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant 0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz);

Remark:

*All models are just appearance different, motherboard, PCB circuit board, chip, electronic components is all the same.

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2.3 Channel List

Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	582.85MHz						

2.4 Test Environment and Mode

Operating Environment:	
Temperature:	-20~50 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

2.5 Power Setting of Test Software

Software Name	N/A
Frequency(MHz)	582.85
Setting	Default

2.6 Description of Support Units

The EUT has been tested independent unit.



2.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• FCC, USA

Designation Number: CN1348

• A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

2.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Occupied Bandwidth	±0.0196%
2	Maximum Conducted Output Power	±0.686 dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



2.9 Equipment List

For Connect EUT Antenna Terminal Test					
Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2024-10-23	2025-10-22
Signal Generator	Keysight	N5182B	MY57300617	2024-10-23	2025-10-22
Power supply	Keysight	E3640A	ZB2022656	2024-10-23	2025-10-22
Radio Communication Tester	R&S	CMW500	105082	2024-10-23	2025-10-22
Spectrum Analyzer	Aglient	N9010A	MY52221458	2024-10-23	2025-10-22
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2024-10-23	2025-10-22
Pulse Power Sensor	Anritsu	MA2411B	1911397	2024-10-23	2025-10-22
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2024-10-23	2025-10-22

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2024-10-23	2025-10-22
LISN	R&S	ENV216	102874	2024-10-23	2025-10-22
ISN	R&S	ENY81-CA6	1309.8590.03	2024-10-23	2025-10-22

Test Equipment for Radiated Emission(30MHz-1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2024-10-23	2025-10-22
Test Software	ETS-LINDGREN	TILE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2024-10-23	2025-10-22
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2022-11-28	2025-11-27
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2024-10-23	2025-10-22



Test Equipment for Radiated Emission(Above 1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Frequency analyser	Keysight	N9010A	MY52221458	2024-10-23	2025-10-22
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2024-10-23	2025-10-22
Horn Antenna	ETS-LINDGREN	3117	00252567	2022-11-28	2025-11-27
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2022-11-28	2025-11-27
Test Software	ETS-LINDGREN	TILE-FULL	NA	NA	NA
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2024-10-23	2025-10-22
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2024-10-23	2025-10-22

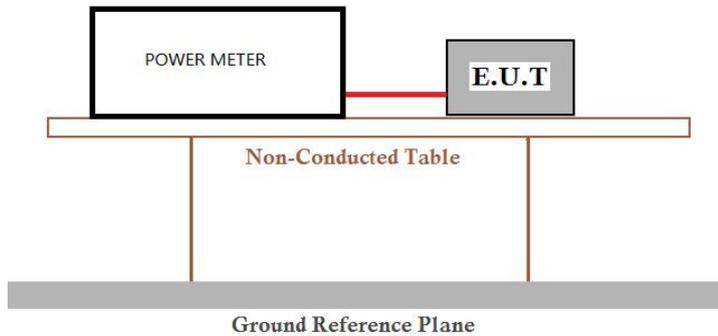
2.10 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	/			



3 Test results and Measurement Data

3.1 Maximum Radiated Power

Test Requirement:	47 CFR Part 15C Section 15.236(d)
Test Method:	ANSI C63.10: 2013 Section 11.9.1.3
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of FM
Limit:	In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP(16.99dBm)
Test Results:	Pass

Test Data

Test Mode	Antenna	Freq(MHz)	Conducted Power [dBm]	Gain (dBi)	EIRP	Limit [dBm]	Verdict
FM	Ant1	582.85	-0.55	3	2.45	≤16.99	PASS

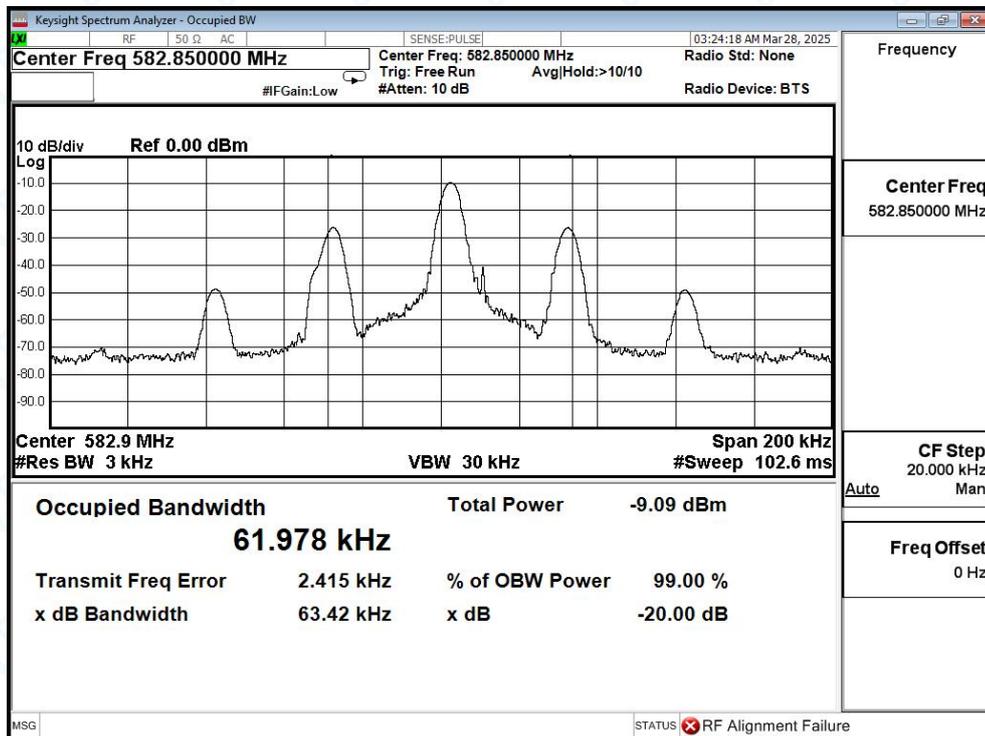


3.2 Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.236(f)(1)
Test Method:	ANSI C63.10 :2013 Section 6.9.3
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of FM
Limit:	200KHz
Test Results:	Pass

Test Data

Frequency(MHz)	OCB(KHZ)	Limit(KHZ)	Verdict
582.85	61.978	200	PASS



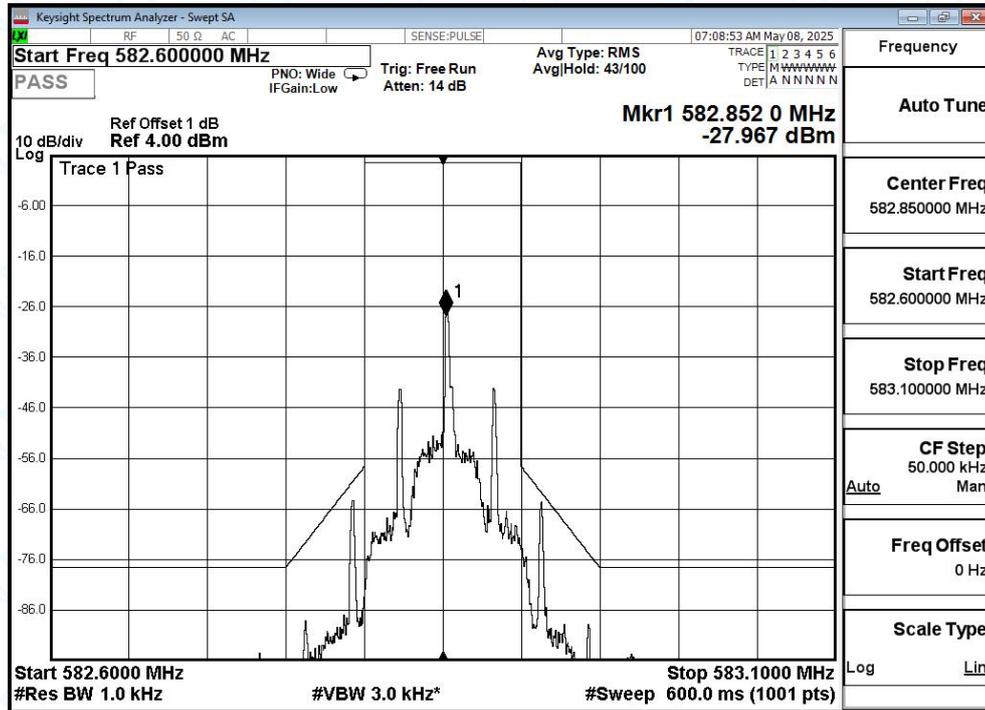


3.3 Emissions within the band

Test Requirement:	47 CFR Part 15C Section 15.236(g)
Test Method:	ETSI EN 300 422-1 V2.2.1 Section 4.2.4.2.2
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of FM
Limit:	<p>Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz</p>
Test Results:	Pass



Test data



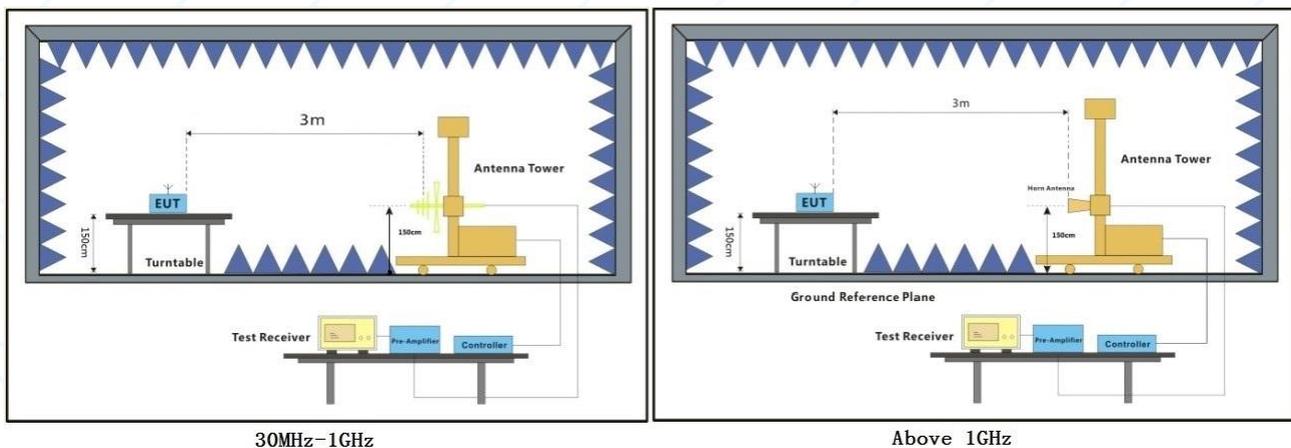
3.4 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.236(g)																					
Test Method:	ETSI EN 300 422-1 V2.2.1 Section 4.2.4.1.2																					
Measurement Distance:	3m																					
Limit:	<p style="text-align: center;">Table 4: Transmitter unwanted emission limits (from ERC Recommendation 74-01 [2])</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency range</th> <th>Maximum power</th> <th>RBW</th> </tr> </thead> <tbody> <tr> <td>9 kHz - 150 kHz</td> <td>-36 dBm</td> <td>1 kHz</td> </tr> <tr> <td>150 kHz - 30 MHz</td> <td>-36 dBm</td> <td>10 kHz</td> </tr> <tr> <td>30 MHz - 1 GHz</td> <td>-36 dBm</td> <td> $F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz </td> </tr> <tr> <td>except: 47 MHz - 74 MHz 87,5 MHz - 118 MHz</td> <td>-54 dBm</td> <td>100 kHz</td> </tr> <tr> <td>174 MHz - 230 MHz 470 MHz - 862 MHz</td> <td>-54 dBm</td> <td> $F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz </td> </tr> <tr> <td>$1 \text{ GHz} < f \leq F_{\text{upper}}$</td> <td>-30 dBm</td> <td> $F_c + 2,5 B \leq f \leq f_c + 10 B$: 30 kHz $F_c + 10 B < f \leq f_c + 12 B$: 300 kHz $f > f_c + 12 B$: 1 MHz $f < f_c - 12 B$: 1 MHz $f_c - 12 B \leq f < f_c - 10 B$: 300 kHz $f_c - 10 B \leq f \leq f_c - 2,5 B$: 30 kHz </td> </tr> </tbody> </table>	Frequency range	Maximum power	RBW	9 kHz - 150 kHz	-36 dBm	1 kHz	150 kHz - 30 MHz	-36 dBm	10 kHz	30 MHz - 1 GHz	-36 dBm	$F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz	except: 47 MHz - 74 MHz 87,5 MHz - 118 MHz	-54 dBm	100 kHz	174 MHz - 230 MHz 470 MHz - 862 MHz	-54 dBm	$F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz	$1 \text{ GHz} < f \leq F_{\text{upper}}$	-30 dBm	$F_c + 2,5 B \leq f \leq f_c + 10 B$: 30 kHz $F_c + 10 B < f \leq f_c + 12 B$: 300 kHz $f > f_c + 12 B$: 1 MHz $f < f_c - 12 B$: 1 MHz $f_c - 12 B \leq f < f_c - 10 B$: 300 kHz $f_c - 10 B \leq f \leq f_c - 2,5 B$: 30 kHz
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3.4.1 E.U.T. Operation

Operating Environment:					
Temperature:	22.5°C	Humidity:	47% RH	Atmospheric Pressure:	101.0 kPa
Test mode:					
Test mode: Refer to section 1.7 for details.					

3.4.2 Test Setup Diagram





3.4.3 Measurement Procedure and Data

1. The measurement procedure follows the clause 8.4.2 of the EN 300 422-1 V1.4.2
2. The EUT was placed on a turntable with 1.5m height.
3. The test distance between the receiving antenna and the EUT is 3meter below 1GHz frequency range, and 3 meter which is in far field test condition for measured frequency above 1GHz, while the receiving (test) antenna scanning from 1m to 4m height in an OATS or SAR (or in a FAR the height scan is omitted).
4. Set EUT in continuous transmitting with maximum output power.
5. The table was rotated from 0 to 360 degree to search the highest radiated emission.
6. Repeating step 2 and 5 for each polarization and channel to find the worst emission level.
7. The results obtained are compared to the limits in order to prove compliance with the requirement.

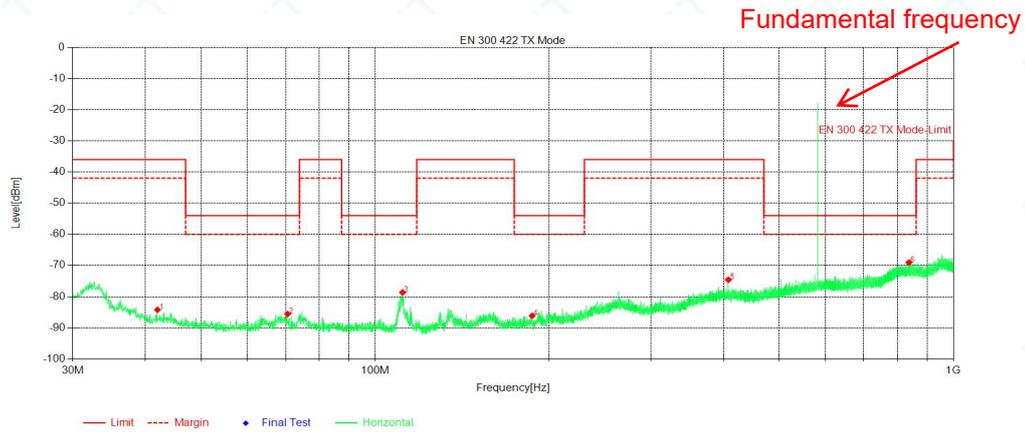
Remark: General, substitution method is used for calibration. For test sites with a fixed setup of the measurement antenna(s) and a reproducible positioning of the UUT, correction values from a verified site calibration may be used alternatively. So using Pre-Test Site Calibration Correction Factor to Determine EUT Emission Power. The system correction factor for each frequency in dB using the following equation:

$$\text{Correction Factor [CF]} = \text{Pref [dBm]} - \text{Prec [dBm]}$$



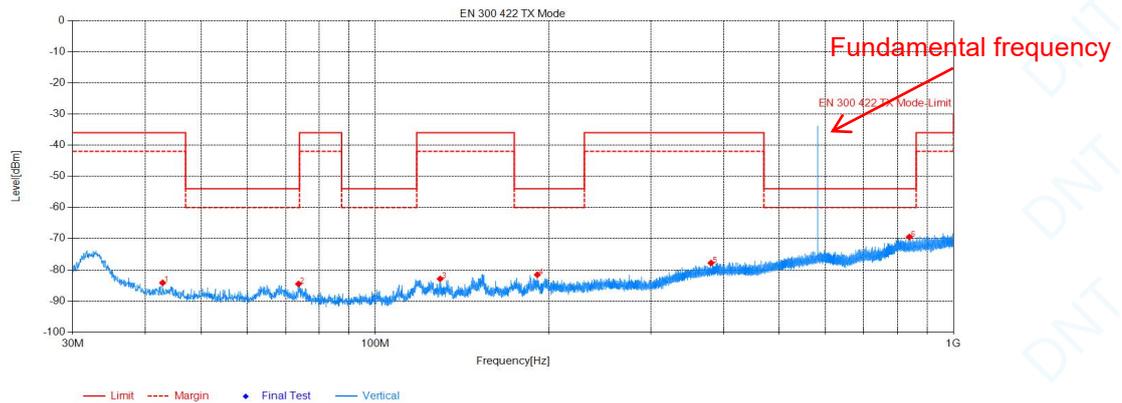
Test Data
For 30-1000MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBm]	Correct Factor [dB/m]	Result Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]
1	42.03	-79.47	-4.74	-84.21	-36.00	48.21	150	188
2	70.55	-78.34	-7.26	-85.60	-54.00	31.60	150	126
3	111.53	-70.68	-7.98	-78.66	-54.00	24.66	150	339
4	186.81	-79.14	-7.03	-86.17	-54.00	32.17	150	311
5	407.98	-77.09	2.49	-74.60	-36.00	38.60	150	168
6	837.18	-79.68	10.61	-69.07	-54.00	15.07	150	214

Vertical:

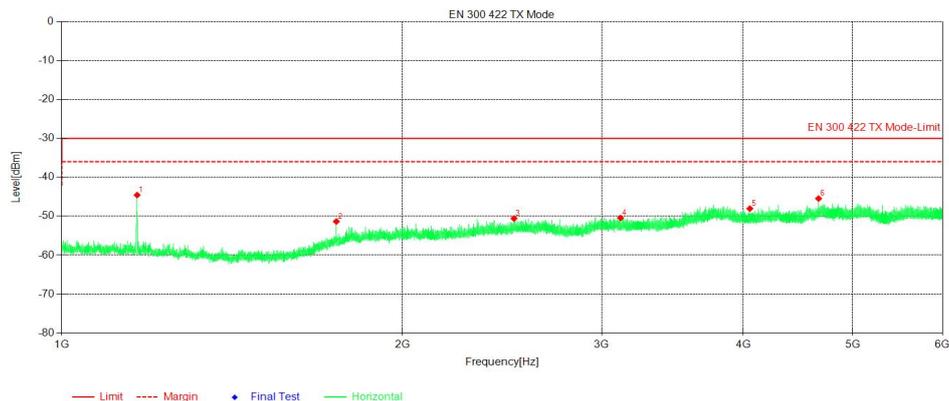


NO.	Freq. [MHz]	Reading Level [dBm]	Correct Factor [dB/m]	Result Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]
1	42.90	-79.62	-4.57	-84.19	-36.00	48.19	150	18
2	73.70	-77.50	-7.06	-84.56	-54.00	30.56	150	130
3	129.53	-76.44	-6.48	-82.92	-36.00	46.92	150	0
4	190.74	-76.98	-4.60	-81.58	-54.00	27.58	150	61
5	380.87	-79.61	1.78	-77.83	-36.00	41.83	150	348
6	838.78	-79.39	9.91	-69.48	-54.00	15.48	150	262



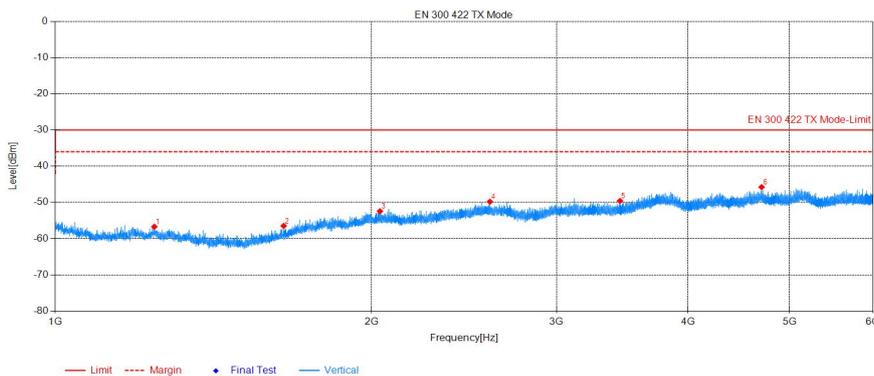
For 1000-12750MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBm]	Correct Factor [dB/m]	Result Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]
1	1165.61	-40.33	-4.24	-44.57	-30.00	14.57	150	360
2	1748.23	-49.89	-1.47	-51.36	-30.00	21.36	150	175
3	2509.46	-52.73	2.14	-50.59	-30.00	20.59	150	80
4	3116.48	-53.31	2.86	-50.45	-30.00	20.45	150	322
5	4054.72	-53.87	5.82	-48.05	-30.00	18.05	150	58
6	4662.95	-52.03	6.56	-45.47	-30.00	15.47	150	153

Vertical:



NO.	Freq. [MHz]	Reading Level [dBm]	Correct Factor [dB/m]	Result Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]
1	1242.21	-52.40	-4.33	-56.73	-30.00	26.73	150	5
2	1649.43	-52.60	-3.90	-56.50	-30.00	26.50	150	30
3	2036.84	-53.09	0.64	-52.45	-30.00	22.45	150	5
4	2591.86	-53.03	3.22	-49.81	-30.00	19.81	150	0
5	3446.70	-53.33	3.73	-49.60	-30.00	19.60	150	151
6	4701.55	-52.60	6.81	-45.79	-30.00	15.79	150	345



3.5 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.236(f)(1)(iii)
Test Method:	47 CFR Part 15C Section 15.236(f)(1)(iii)
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the the worst case of FM
Limit:	The frequency error shall not exceed 20 parts per million for frequencies below 1 GHz, 15 parts per million between 1 GHz and 2 GHz and 10 ppm above 2 GHz.

Reference Frequency: 582.85MHz

Power supply	Temperature(°C)	Frequency Error (Hz)	FrequencyError (ppm)
DC 2.55V	25	3125	5.36
DC 3.0V	25	3163	5.43
DC 3.45V	25	3115	5.34

Temperature(°C)	Frequency Error (Hz)	FrequencyError (ppm)	Limit(ppm)	Result
50	3124	5.36	50	PASS
40	3139	5.39		
30	3158	5.42		
20	3161	5.42		
10	3128	5.37		
0	3134	5.38		
-10	3158	5.42		
-20	3169	5.44		

---The End Report---

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