



RF Test Report

FCC ID: 2BH8N-UHF888

Report No. : TBR-C-202403-0335-10
Applicant : Dongguan Jieqiang Computer Co., Ltd
Equipment Under Test (EUT)
EUT Name : Microphone
Model No. : UHF888
Series Model No. : UHF888-A, UHF888-B, UHF888-C, UHF888-D, UHF888-E,
UHF888-F, UHF888-G
Brand Name : JUDIO
Sample ID : HC-C-202403-0335-01-01-1#&HC-C-202403-0335-01-01-2#
Receipt Date : 2024-08-09
Test Date : 2024-08-09 to 2024-08-27
Issue Date : 2024-08-27
Standards : FCC Part 15, Subpart C (15.236)
Test Method : ANSI C63.10:2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

Tested By : ZKN Zhou
Reviewed By : Wade Lv
Approved By : Ivan Su



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

Contents

CONTENTS.....	2
1. GENERAL INFORMATION ABOUT EUT.....	5
1.1 Client Information.....	5
1.2 General Description of EUT (Equipment Under Test)	5
1.3 Block Diagram Showing the Configuration of System Tested.....	8
1.4 Description of Support Units	8
1.5 Description of Test Mode.....	9
1.6 Description of Test Software Setting	9
1.7 Measurement Uncertainty	10
1.8 Test Facility.....	10
2. TEST SUMMARY.....	11
3. TEST SOFTWARE.....	11
4. TEST EQUIPMENT AND TEST SITE.....	12
5. CONDUCTED EMISSION TEST	14
5.1 Test Standard and Limit.....	14
5.2 Test Setup.....	14
5.3 Test Procedure.....	15
5.4 Deviation From Test Standard.....	15
5.5 EUT Operating Mode	15
5.6 Test Data.....	15
6. RF OUTPUT POWER TEST	16
6.1 Test Standard and Limit.....	16
6.2 Test Setup.....	16
6.3 Test Procedure.....	16
6.4 Deviation From Test Standard.....	17
6.5 EUT Operating Condition	17
6.6 Test Data.....	17
7. BANDWIDTH TEST.....	18
7.1 Test Standard and Requirement	18
7.2 Test Setup.....	18
7.2 Test Procedure.....	18
7.4 Deviation From Test Standard.....	18
7.5 EUT Operating Condition	18
7.6 Test Data.....	18
8. EMISSION MASK TEST	19
8.1 Test Standard.....	19
8.2 Test Limit.....	19
8.3 Test Setup.....	19
8.4 Test Procedure.....	19
8.5 Deviation From Test Standard.....	20



8.6 Test Data.....	20
9. RADIATED SPURIOUS EMISSION TEST	21
9.1 Test Standard and Limit.....	21
9.2 Test Setup.....	21
9.3 Test Procedure.....	22
9.4 Deviation From Test Standard.....	22
9.5 Test Data.....	22
10. FREQUENCY STABILITY	23
10.1 Test Standard and Limit	23
10.2 Test Setup.....	23
10.3 Test Procedure.....	23
10.4 Deviation From Test Standard.....	23
10.5 Test Data.....	23
ATTACHMENT A--CONDUCTED EMISSION TEST DATA	24
ATTACHMENT B--POWER OUTPUT TEST DATA	26
ATTACHMENT C--BANDWIDTH TEST DATA	27
ATTACHMENT D--EMISSION MASK TEST DATA	29
ATTACHMENT E--RADIATED SPURIOUS EMISSION TEST DATE.....	31
ATTACHMENT F--FREQUENCY STABILITY TEST DATA	43



Revision History

Report No.	Version	Description	Issued Date
TBR-C-202403-0335-10	Rev.01	Initial issue of report	2024-08-27



1. General Information about EUT

1.1 Client Information

Applicant	:	Dongguan Jieqiang Computer Co., Ltd
Address	:	Room 1422, No. 605, Tangxia Section, Dongshen Road, Tangxia Town, Dongguan City, Guangdong Province, China
Manufacturer	:	Dongguan Jieqiang Computer Co., Ltd
Address	:	Room 1422, No. 605, Tangxia Section, Dongshen Road, Tangxia Town, Dongguan City, Guangdong Province, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Microphone	
Models No.	:	UHF888, UHF888-A, UHF888-B, UHF888-C, UHF888-D, UHF888-E, UHF888-F, UHF888-G	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is different names for different customers.	
Product Description	:	Operation Frequency: 566MHz~585MHz	
		Number of Channel: 20 Channels	
		Antenna Gain:	0dBi FPC Antenna
		Equipment System:	Digital systems
		Modulation:	Pi/4-QPSK
Power Rating	:	USB Input: DC 5V/1A DC 3.7V 1500mAh Rechargeable Li-ion battery	
Software Version	:	----	
Hardware Version	:	----	
Remark: (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. (3) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible. (4) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

Note:

Applicable Standards: FCC CFR 47 Part 2, & 15, KDB 206256 D01 vO2, ANSI C63.10- 2013,



ANSI C63.26 2015



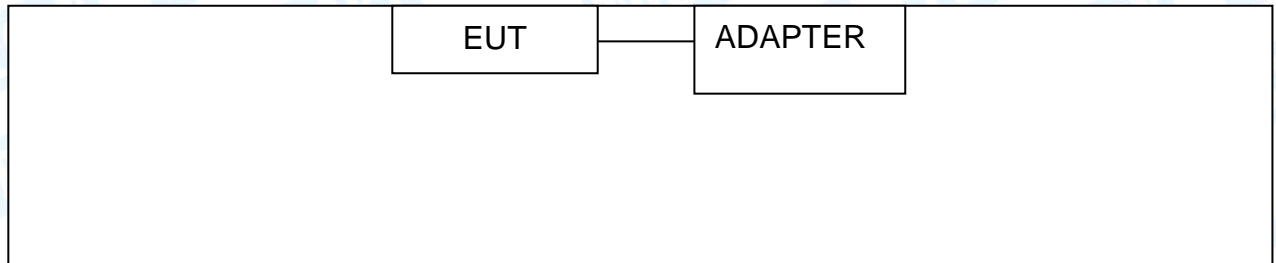
(5) Channel List:

Channel	Frequency (MHz)
01	566
02	567
03	568
04	569
05	570
06	571
07	572
08	573
09	574
10	575
11	576
12	577
13	578
14	579
15	580
16	581
17	582
18	583
19	584
20	585

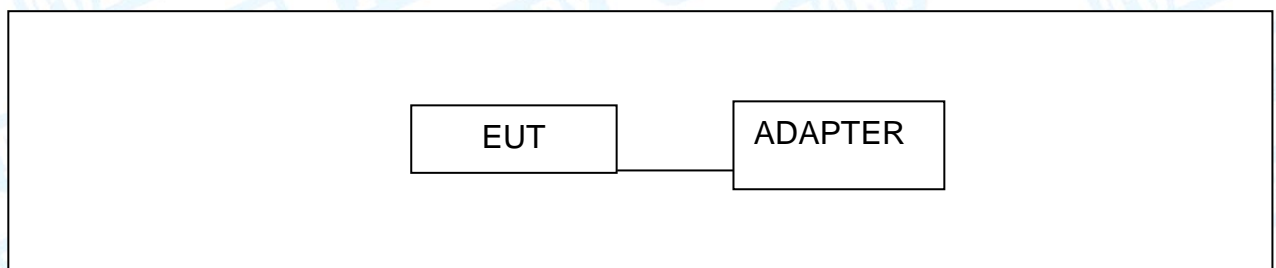


1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test



Radiated Test



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/SDOC	Manufacturer	Used “√”
Adapter	X552	----	UGREEN	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable1	-----	-----	0.5M	-----
Remark: The cables and adapter is provided by Toby test lab.				



1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Radiated Test	
Final Test Mode	Description
Mode 1	TX Mode(Channel 01/10/20)

Note:

For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

- (1)According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels.
- (2)During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

Control by pressing the button. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF mode.



1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



2. Test Summary

FCC Part 15 Subpart C(15.236)				
Standard Section	Test Item	Test Sample(s)	Judgment	Remark
15.207(a)	Conducted Emission	HC-C-202403-0335-01-01-1#	PASS	N/A
15.236(d)(2)	RF Power Output	HC-C-202403-0335-01-01-2#	PASS	N/A
15.236(f)(2)	Occupied Bandwidth	HC-C-202403-0335-01-01-2#	PASS	N/A
15.236(g) 8.3 of ETSI EN 300 422-1	Emission Mask	HC-C-202403-0335-01-01-2#	PASS	N/A
15.236(g) 8.4 of ETSI EN 300 422-1	(1) Radiated Spurious Emission	HC-C-202403-0335-01-01-2#	PASS	N/A
15.236(f)(3)	Frequency Stability vs. Temperature Frequency Stability vs. Voltage	HC-C-202403-0335-01-01-2#	PASS	N/A
Note: N/A is an abbreviation for Not Applicable.				

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
Radiation Emission	EZ-EMC	EZ	FA-03A2RE+
RF Conducted Measurement	MTS-8310	MWRFTtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V3.2.22



4. Test Equipment and Test Site

Test Site				
No.	Test Site	Manufacturer	Specification	Used
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 (m)	√
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 (m)	X
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 (m)	X
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 (m)	√

Conducted Emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 17, 2024	Jun. 16, 2025
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 17, 2024	Jun. 16, 2025
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 17, 2024	Jun. 16, 2025
LISN	Rohde & Schwarz	ENV216	101131	Jun. 17, 2024	Jun. 16, 2025

Radiation Emission Test (B Site)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 30, 2023	Aug. 29, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb. 22, 2025
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb. 26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 30, 2023	Aug. 29, 2024
Highpass Filter	CD	HPM-6.4/18G	---	N/A	N/A
Highpass Filter	CD	HPM-2.8/18G	---	N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A

Antenna Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 30, 2023	Aug. 29, 2024
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 30, 2023	Aug. 29, 2024
Vector Signal Generator	Agilent	N5182A	MY50141294	Aug. 30, 2023	Aug. 29, 2024
Analog Signal Generator	Agilent	N5181A	MY48180463	Aug. 30, 2023	Aug. 29, 2024
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Aug. 30, 2023	Aug. 29, 2024



Analog Signal Generator	KEYSIGHT	N5173B	MY61252685	Aug. 30, 2023	Aug. 29, 2024
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Aug. 30, 2023	Aug. 29, 2024
RF Control Unit	Tonsced	JS0806-1	21C8060380	N/A	N/A
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 30, 2023	Aug. 29, 2024
Power Control Box	Tonsced	JS0806-4ADC	21C8060387	N/A	N/A



5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.207

5.1.2 Test Limit

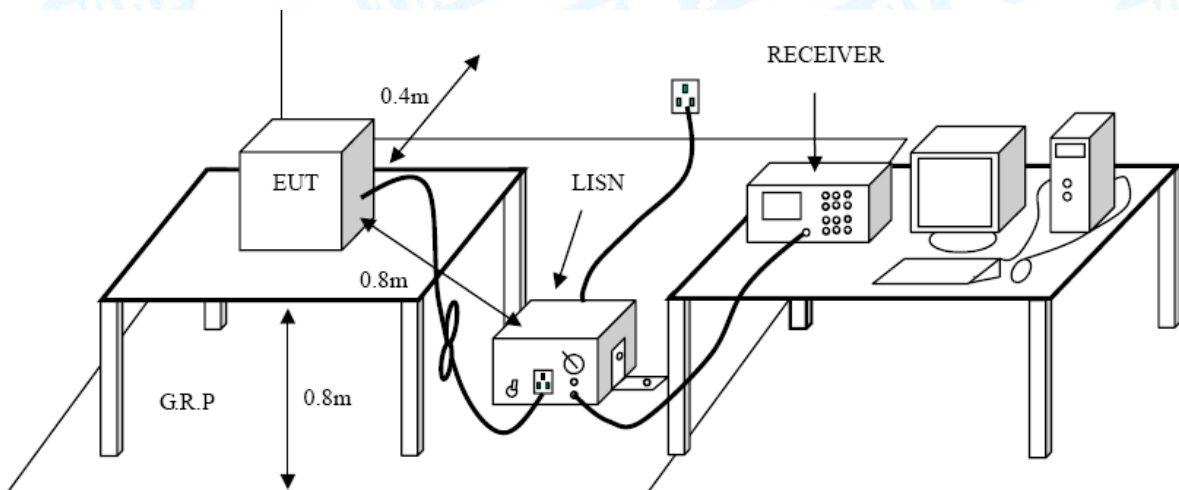
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN is at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A.



6. RF Output Power Test

6.1 Test Standard and Limit

6.1.1 Test Standard:

FCC Part 15.236(d)(2)

6.1.2 Test Limit

§15.236 Operation of wireless microphones in the bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-698 MHz.

(d) The maximum radiated power shall not exceed the following values:

(2) In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

Procedure: KDB 971168 D01 Average Power Measurements section 5.2.1

Power Limit 50mW= 17dBm

6.2 Test Setup



6.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (2) Set the RBW \geq Bandwidth
- (3) Set VBW $\geq 3 \times$ RBW
- (4) Set Span $\geq 3 \times$ RBW
- (5) Sweep time=auto
- (6) Measurement points ≥ 2 span / RBW
- (7) Detector=Average
- (8) Trace mode= max hold.

Allow trace to fully stabilize, and then use peak marker function to determine the Average amplitude level.

- (9) Radiated RF power= Conduction measurement Level + Ant. Gain



6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

The EUT was set to Continual Transmitting in maximum power, and new batteries are used during testing.

6.6 Test Data

Please refer to the Attachment B.



7. Bandwidth Test

7.1 Test Standard and Requirement

7.1.1 Test Standard

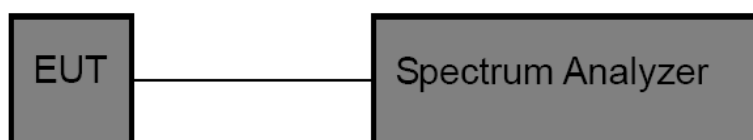
FCC Part 15.236(f)(2)

7.1.2 Test Limit

One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.

7.1.3 Requirement: ANSI C63.26 sec. 5.4.3

7.2 Test Setup



7.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
Bandwidth: RBW=30 kHz, VBW=100kHz.
- (3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

The EUT was set to continuously transmitting for the Bandwidth Test.

7.6 Test Data

Please refer to the Attachment C.



8. Emission Mask Test

8.1 Test Standard

(g) Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in §8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08), *Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement*. Emissions outside of this band shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).

8.2 Test Limit

The transmitter output spectrum shall be within the mask defined in figure 4. This mask may also be used for analogue.

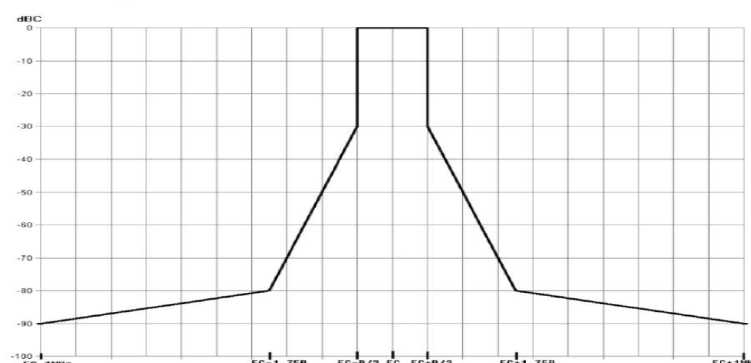
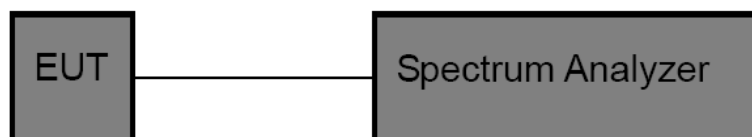


Figure 4: Spectrum mask for digital systems below 1 GHz

8.3 Test Setup



8.4 Test Procedure

Measure the "Maximum Relative Level (dBc) at Specified Carrier Offsets" with the following spectrum analyser setup:

- Centre Frequency = f_c
- Span $\geq 5 \times B$
- Detector = RMS
- Trace Mode = Peak Hold
- RBW&VBW = 1 kHz
- Sweep time ≥ 2 s



8.5 Deviation From Test Standard

No deviation

8.6 Test Data

Please refer to the Attachment D.



9. Radiated Spurious Emission Test

9.1 Test Standard and Limit

9.1.1 Test Standard: FCC Part 15.236(g)

Requirement: ETSI EN 300 422-1 V1.4.2

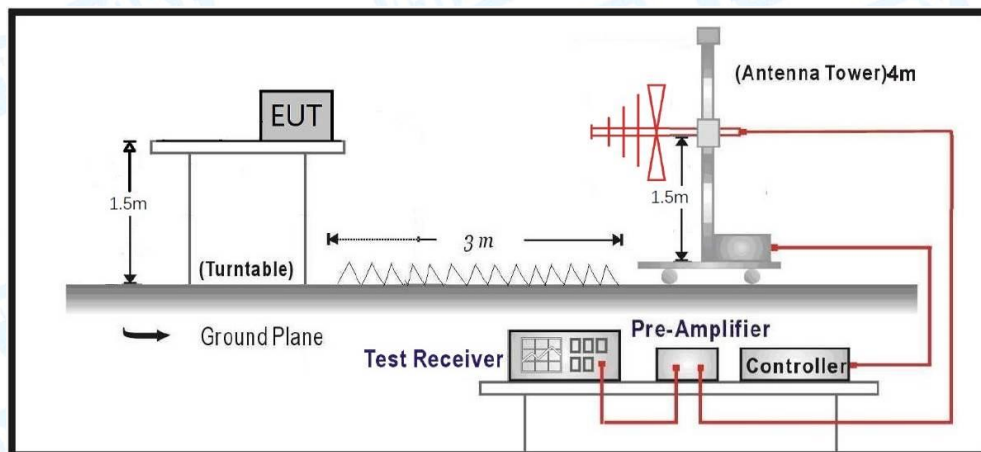
(g) Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in 58.3 of ETSI EN 300 422-1 V1.4.2 (2011-08), *Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement*. Emissions outside of this band shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).

9.1.2 Limits

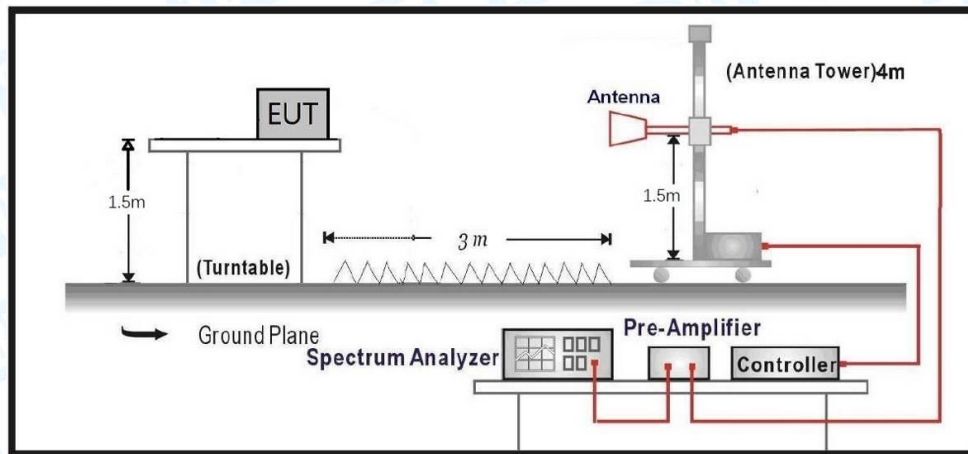
State	Frequency		
	47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other Frequencies below 1 000 MHz	Frequencies above 1 000 MHz
Operation	4 nW	250 nW	1 µW
Standby	2 nW	2 nW	20 nW

9.2 Test Setup

A. Radiated Emission Test Set-Up Frequency Below 1 GHz.



B. Radiated Emission Test Set-Up Frequency Above 1 GHz.



9.3 Test Procedure

1. The EUT was placed on the top of the turntable in chamber.
2. The test shall be made in the transmitting mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. This measurement shall be repeated with the transmitter in standby mode where applicable.
4. For spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable.
5. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
6. Replace the EUT by standard antenna and feed the RF port by signal generator.
7. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
8. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
9. The level of the spurious emission is the power level of (8) plus the gain of the standard antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.
10. The measurement shall be repeated at the lowest and the highest channel of the stated frequency range.

9.4 Deviation From Test Standard

No deviation

9.5 Test Data

Please refer to the Attachment E.



10. Frequency stability

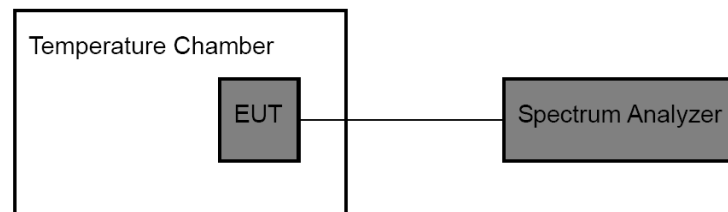
10.1 Test Standard and Limit

10.1.1 Test Standard: FCC 15.236(f)(3)

10.1.2 Test Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery.

10.2 Test Setup



10.3 Test Procedure

The test was conducted as follows: The transmitter was placed in the temperature chamber at 25°C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15-second intervals. The worst case number used in the table below. The assigned channel frequency was considered to be the reference frequency. The temperature was then reduced to -20°C after which the transmitter was again allowed to stabilize for one hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15-second intervals. The worst-case number was again used in the table below. This procedure was repeated in 10-degree increments up to $+50^{\circ}\text{C}$.

10.4 Deviation From Test Standard

No deviation

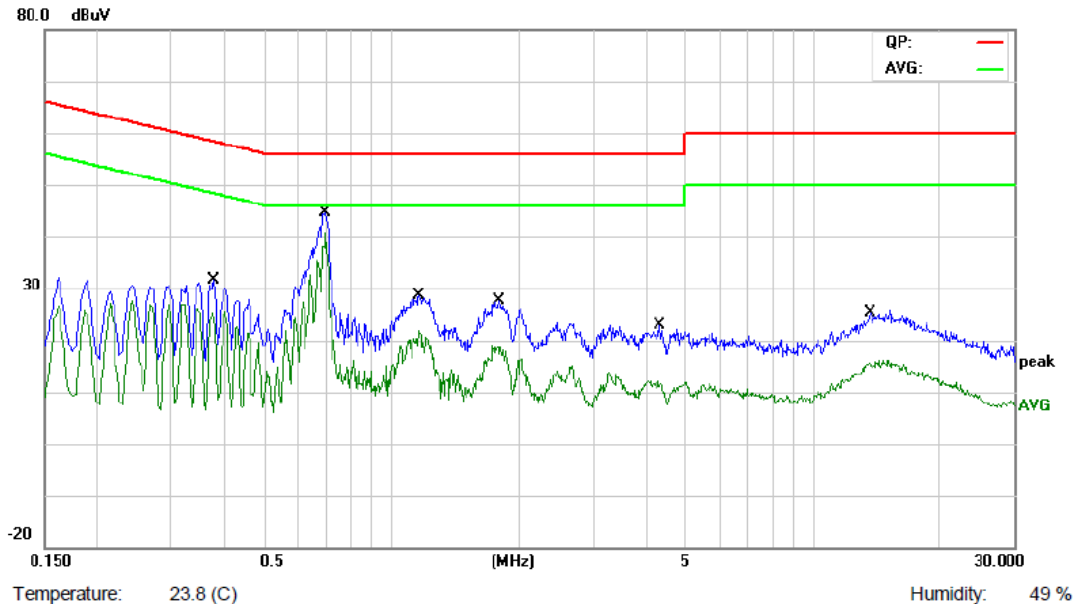
10.5 Test Data

Please refer to the Attachment F.



Attachment A--Conducted Emission Test Data

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Test Mode:	Mode 1
Remark:	Only showed the worst mode test data.

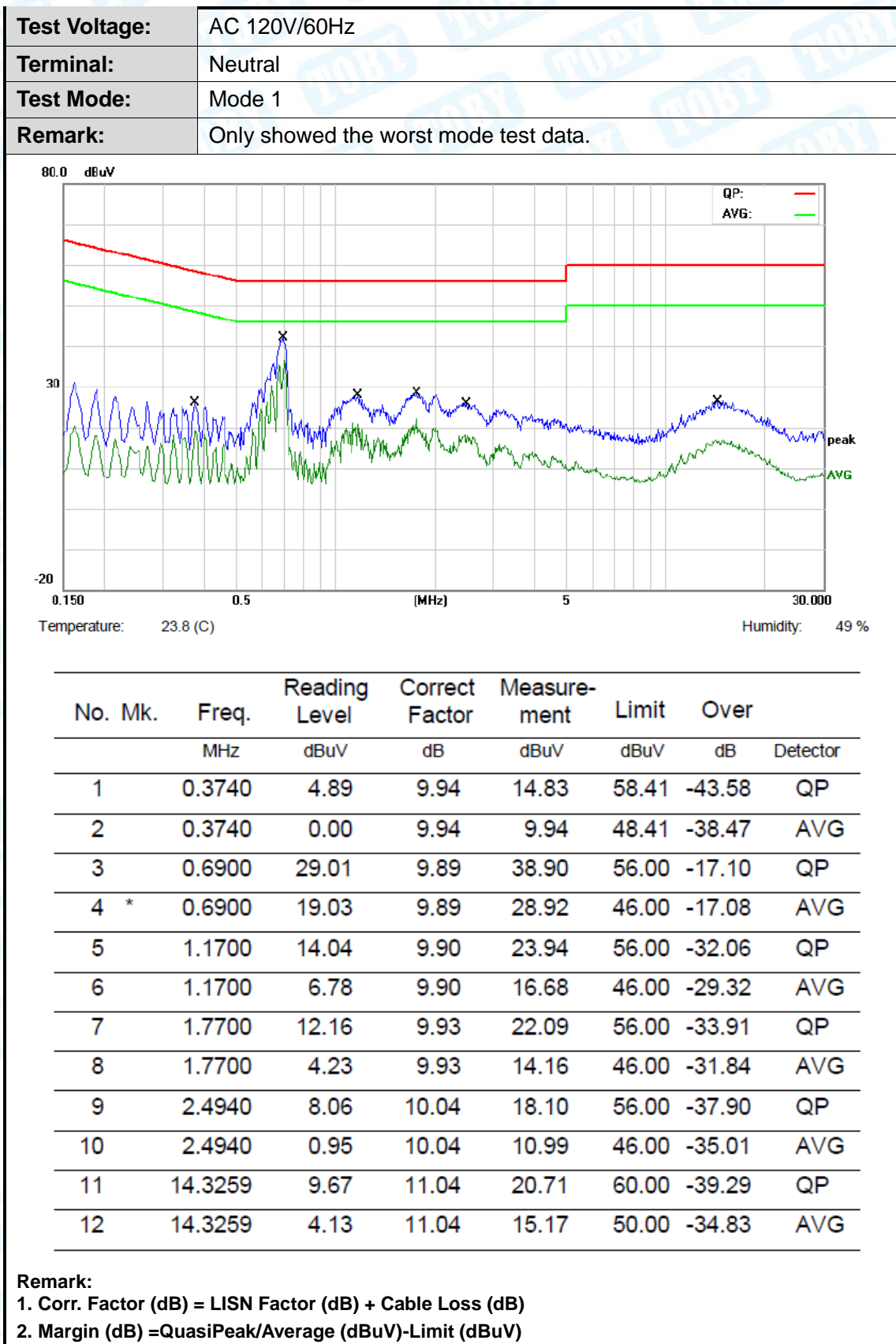


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.3780	6.94	9.93	16.87	58.32	-41.45	QP
2	0.3780	3.88	9.93	13.81	48.32	-34.51	AVG
3	0.6900	28.73	9.91	38.64	56.00	-17.36	QP
4 *	0.6900	18.77	9.91	28.68	46.00	-17.32	AVG
5	1.1620	13.20	10.06	23.26	56.00	-32.74	QP
6	1.1620	6.18	10.06	16.24	46.00	-29.76	AVG
7	1.7980	13.56	10.05	23.61	56.00	-32.39	QP
8	1.7980	5.55	10.05	15.60	46.00	-30.40	AVG
9	4.3339	5.43	10.12	15.55	56.00	-40.45	QP
10	4.3339	-1.24	10.12	8.88	46.00	-37.12	AVG
11	13.6419	9.36	11.01	20.37	60.00	-39.63	QP
12	13.6419	4.03	11.01	15.04	50.00	-34.96	AVG

Remark:

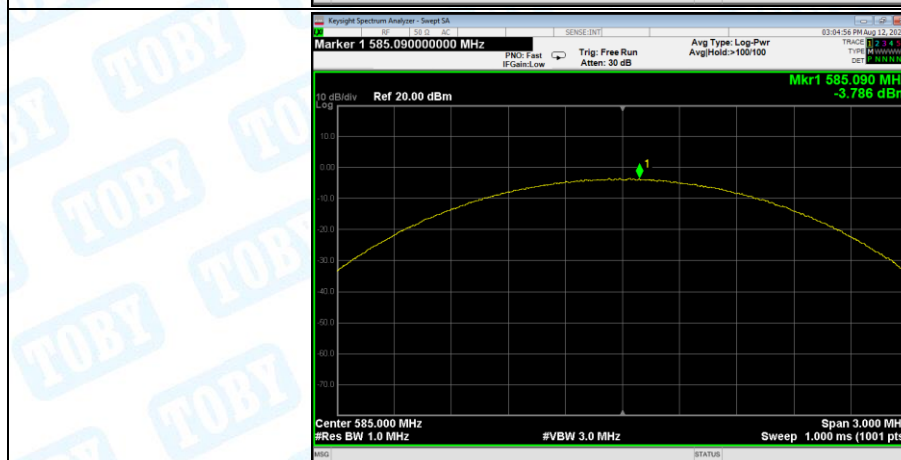
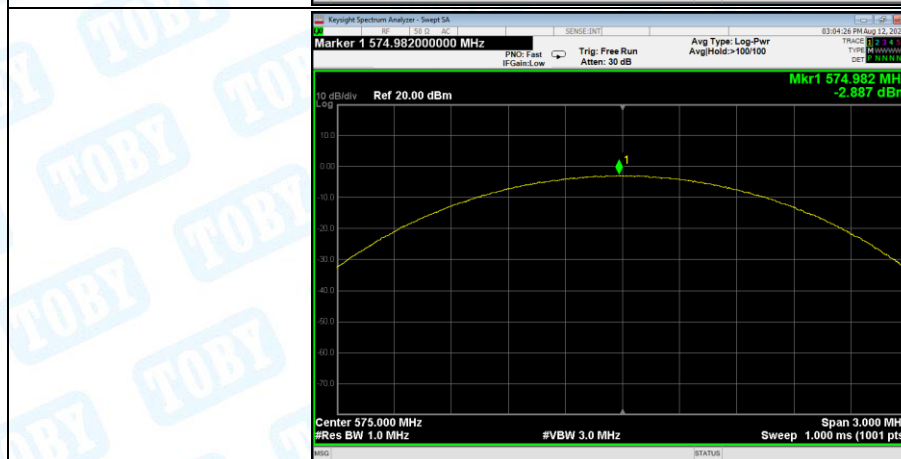
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)





Attachment B--Power Output Test Data

Frequency (MHz)	Conduction measurement Level (dBm)	Ant. Gain(dBi)	Radiated RF power(dBm)	Limit(dBm)	Margin (dB)
566	-2.221	0	-2.221	50mw(17dBm)	-19.221
575	-2.887	0	-2.887	50mw(17dBm)	-19.887
585	-3.786	0	-3.786	50mw(17dBm)	-20.786



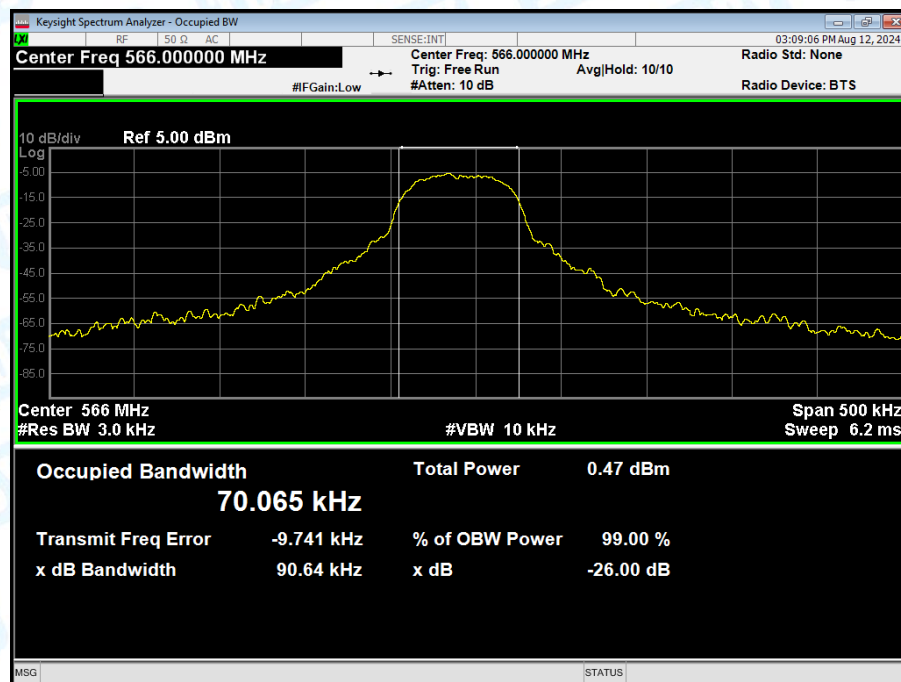
Note: Radiated RF power= Conduction measurement Level + Ant. Gain



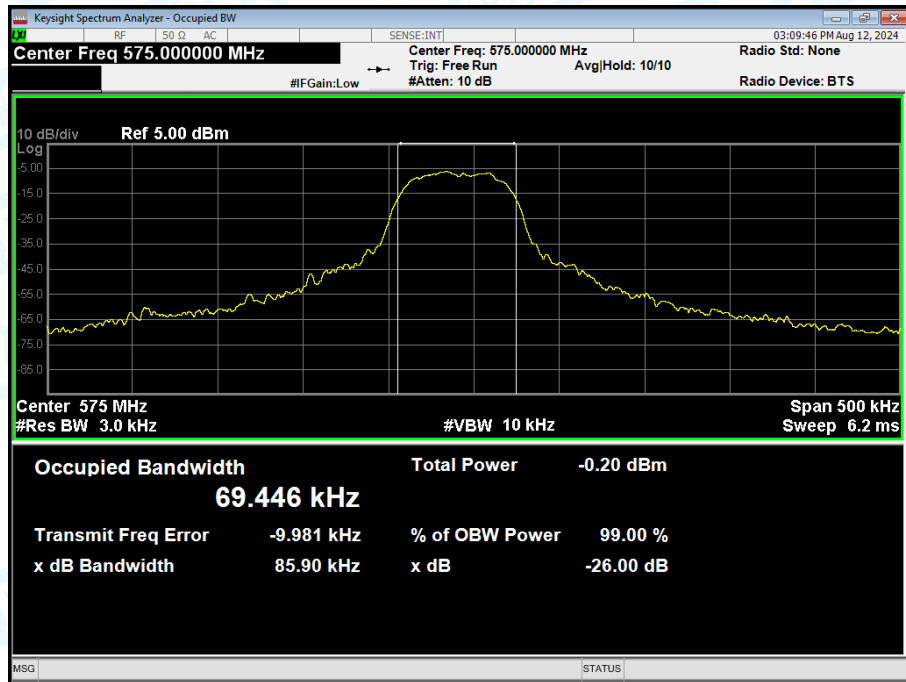
Attachment C--Bandwidth Test Data

Channel Frequency (MHz)	99% Bandwidth (KHz)	26dB Bandwidth (KHz)
566	70.065	90.64
575	69.446	85.90
585	69.601	88.74

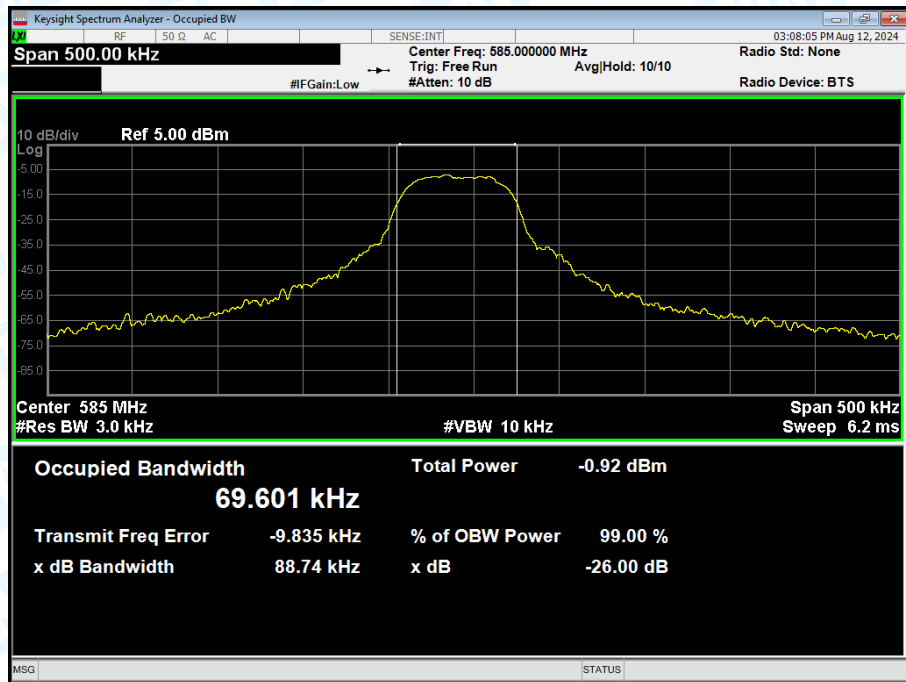
566MHz



575MHz

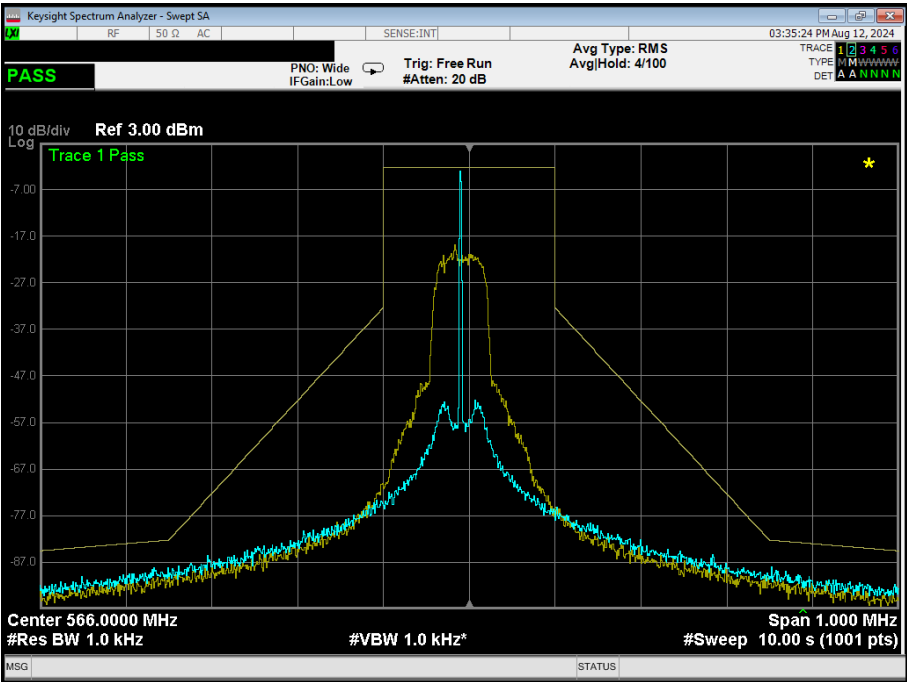


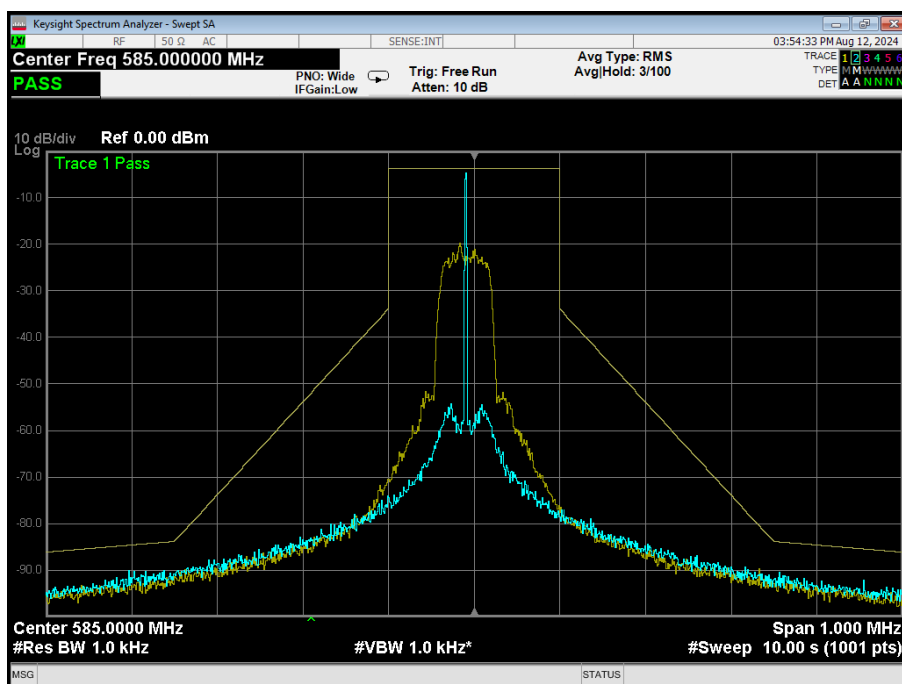
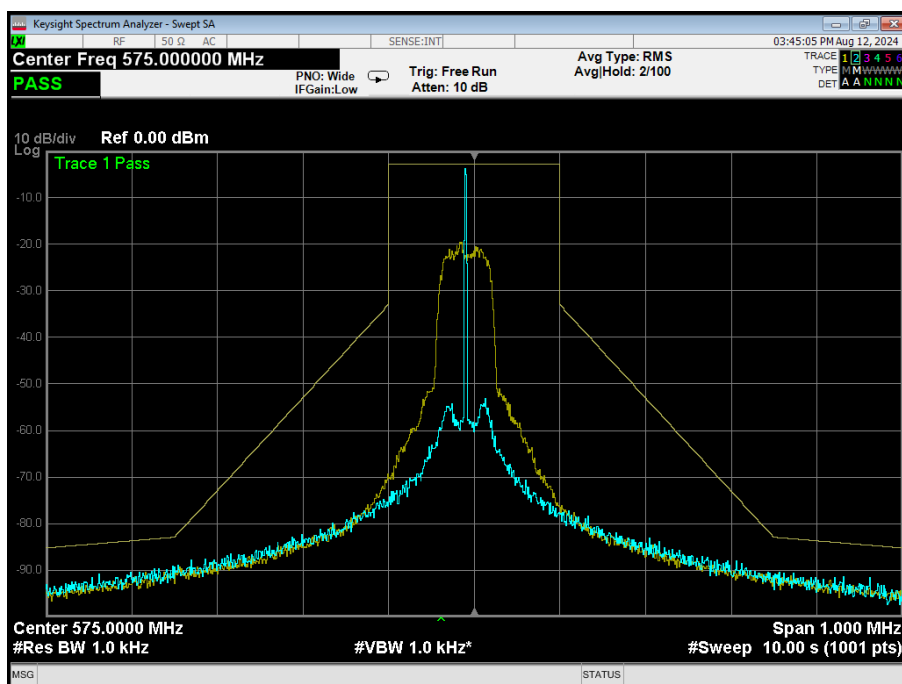
585MHz



Attachment D--Emission Mask Test Data

Temperature:	26°C	Relative Humidity:	60%
Pressure:	1020hPa	Test Voltage :	DC 3.7V
Result:	PASS		
Test Mode :	TX 566MHz		

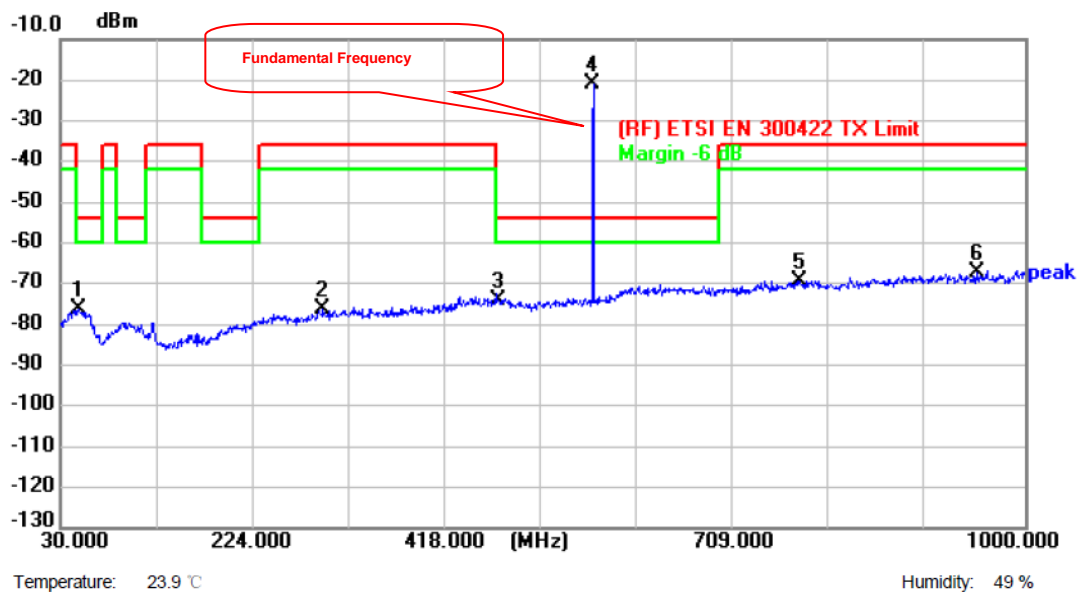




Attachment E--Radiated Spurious Emission Test Date

Below 1 GHz

Test Voltage:	DC 3.7V
Ant. Pol.	Horizontal
Test Mode:	TX Mode 566MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



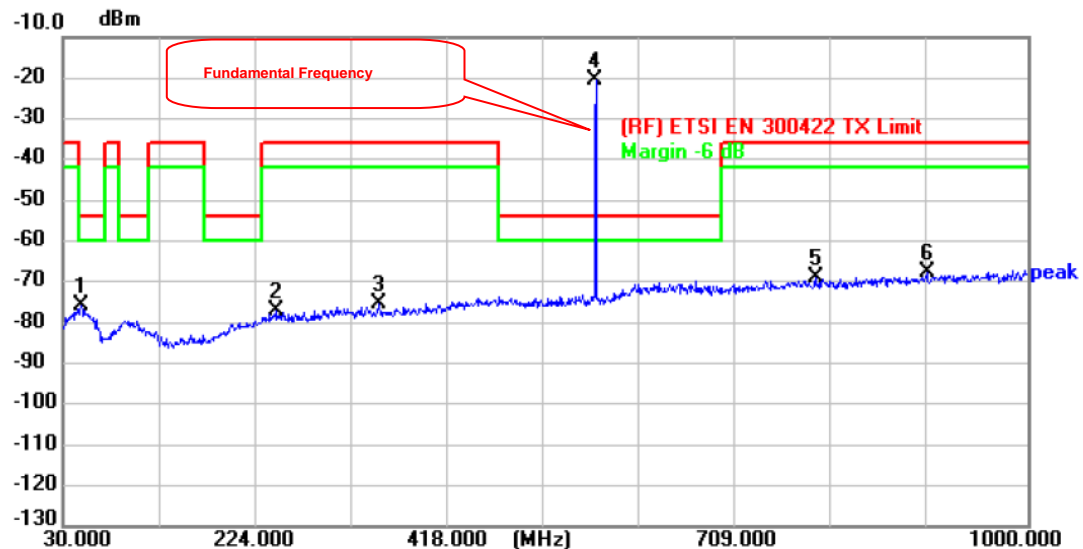
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	48.4300	-67.90	-8.22	-76.12	-54.00	-22.12	peak
2	293.8400	-67.67	-8.47	-76.14	-36.00	-40.14	peak
3	470.3800	-68.84	-5.24	-74.08	-54.00	-20.08	peak
4 *	566.4099	-16.32	-4.54	-20.86	Fundamental Frequency		peak
5	773.0200	-68.73	-0.56	-69.29	-36.00	-33.29	peak
6	951.5000	-68.50	1.25	-67.25	-36.00	-31.25	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm)-Limit (dBm)



Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode 566MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



Temperature: 23.9 °C

Humidity: 49 %

No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	48.4300	-66.15	-9.74	-75.89	-54.00	-21.89	peak
2	245.3400	-66.05	-11.02	-77.07	-36.00	-41.07	peak
3	348.1600	-67.99	-7.52	-75.51	-36.00	-39.51	peak
4 *	566.4099	-16.58	-4.08	-20.66	Fundamental Frequency		peak
5	786.6000	-68.40	-0.68	-69.08	-36.00	-33.08	peak
6	899.1200	-68.49	0.93	-67.56	-36.00	-31.56	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Peak(dBm) - Limit (dBm)



Test Voltage:	DC 3.7V
Ant. Pol.	Horizontal
Test Mode:	TX Mode 575MHz
Remark:	All channels were tested and only the worst channels were shown in the report.

Temperature: 23.9 °C Humidity: 49 %

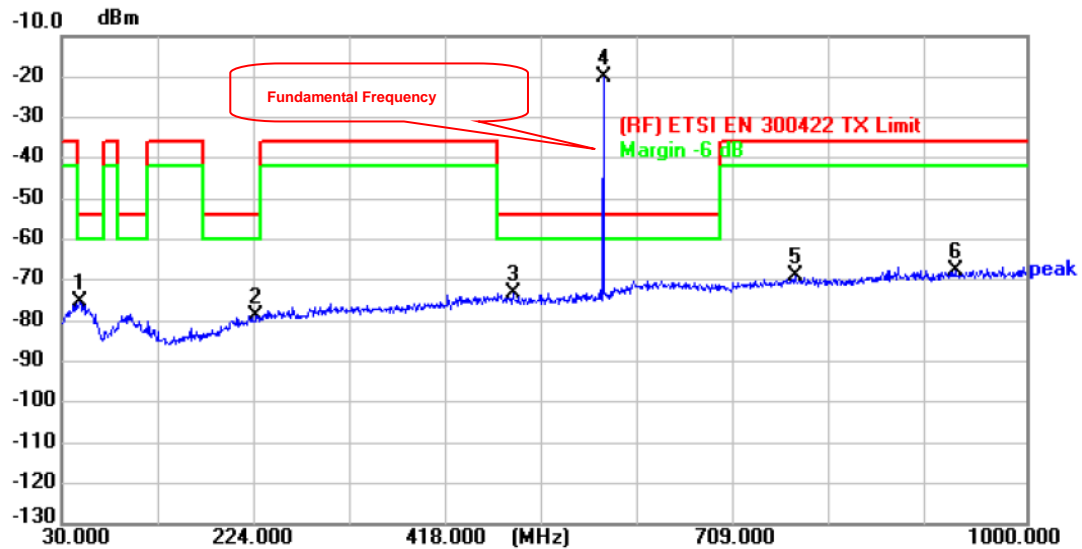
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	49.4000	-67.01	-8.16	-75.17	-54.00	-21.17	peak
2	123.1200	-64.46	-14.98	-79.44	-36.00	-43.44	peak
3	190.0500	-68.90	-13.35	-82.25	-54.00	-28.25	peak
4	453.8900	-67.58	-5.44	-73.02	-36.00	-37.02	peak
5 *	575.1400	-16.18	-4.31	-20.49	Fundamental Frequency		peak
6	906.8800	-67.82	0.83	-66.99	-36.00	-30.99	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)



Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode 575MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



Temperature: 23.9 °C

Humidity: 49 %

No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	48.4300	-65.79	-9.74	-75.53	-54.00	-21.53	peak
2	225.9400	-66.56	-12.20	-78.76	-54.00	-24.76	peak
3	483.9600	-67.28	-5.79	-73.07	-54.00	-19.07	peak
4 *	575.1400	-16.47	-3.80	-20.27	Fundamental Frequency		peak
5	767.2000	-68.24	-0.58	-68.82	-36.00	-32.82	peak
6	928.2200	-68.94	1.26	-67.68	-36.00	-31.68	peak

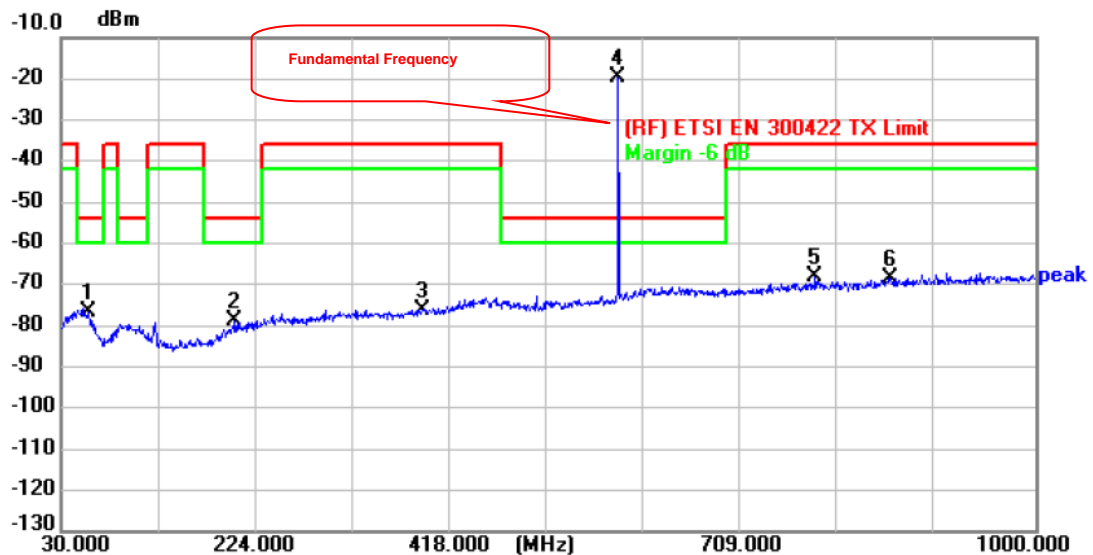
Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Peak(dBm) - Limit (dBm)



Test Voltage:	DC 3.7V
Ant. Pol.	Horizontal
Test Mode:	TX Mode 585MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	57.1600	-66.59	-9.89	-76.48	-54.00	-22.48	peak
2	202.6600	-66.75	-11.85	-78.60	-54.00	-24.60	peak
3	389.8700	-68.92	-7.11	-76.03	-36.00	-40.03	peak
4 *	584.8400	-15.98	-3.74	-19.72	Fundamental Frequency		peak
5	780.7800	-67.30	-0.59	-67.89	-36.00	-31.89	peak
6	855.4700	-68.92	0.34	-68.58	-36.00	-32.58	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)



Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode 585MHz
Remark:	All channels were tested and only the worst channels were shown in the report.

Temperature: 23.9 °C Humidity: 49 %

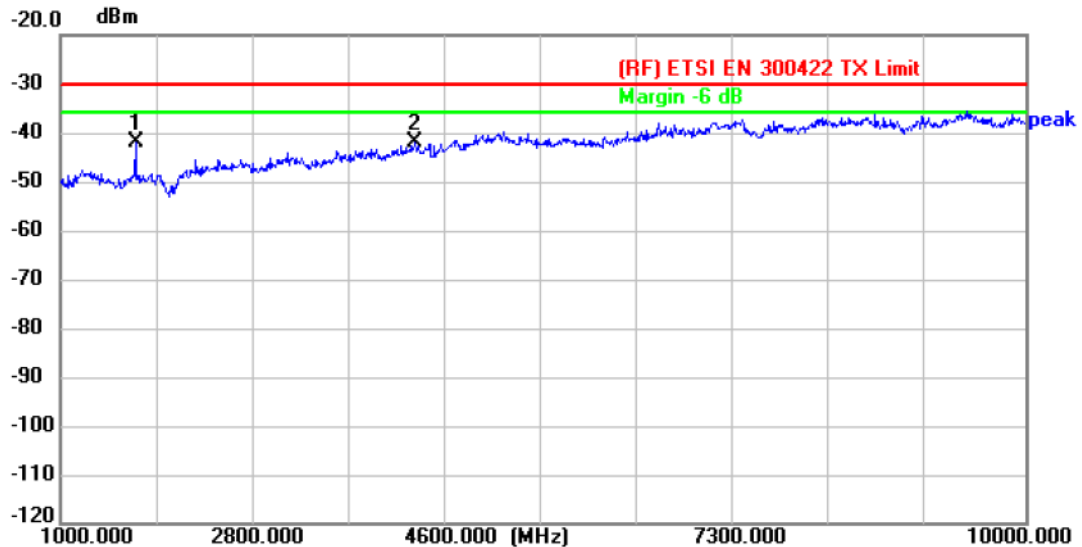
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	52.3100	-66.06	-9.78	-75.84	-54.00	-21.84	peak
2	229.8200	-66.43	-12.04	-78.47	-54.00	-24.47	peak
3	428.6700	-67.97	-6.09	-74.06	-36.00	-38.06	peak
4 *	584.8400	-16.37	-3.26	-19.63	Fundamental Frequency		peak
5	734.2199	-68.34	-1.12	-69.46	-36.00	-33.46	peak
6	860.3200	-68.12	0.18	-67.94	-36.00	-31.94	peak

Remark:
1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm)-Limit (dBm)



Above 1 GHz

Test Voltage:	DC 3.7V
Ant. Pol.	Horizontal
Test Mode:	TX Mode 566MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



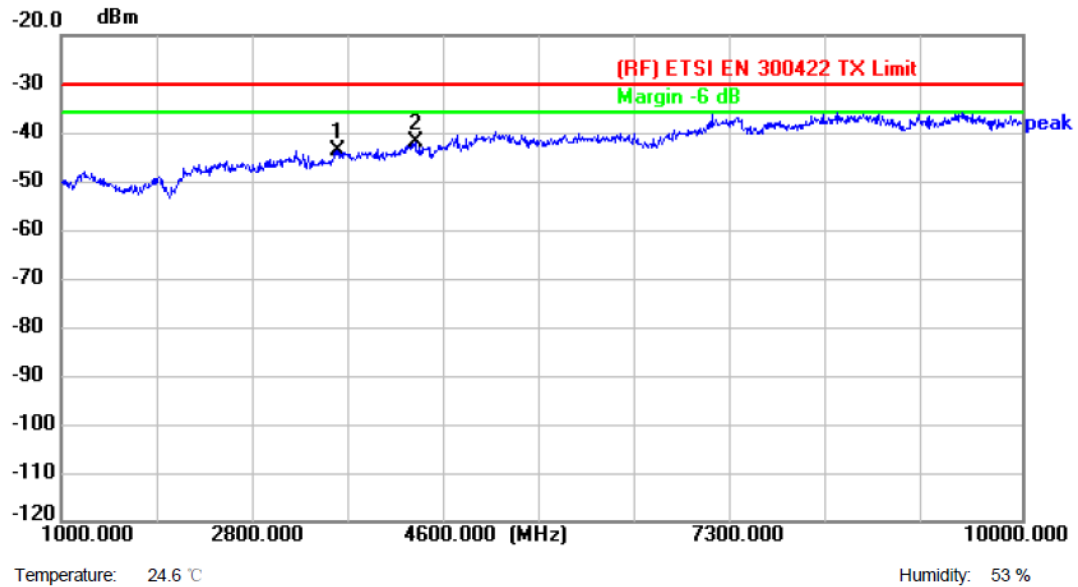
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1 *	1702.000	-45.88	4.04	-41.84	-30.00	-11.84	peak
2	4312.000	-54.29	12.30	-41.99	-30.00	-11.99	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)
3. The tests evaluated 1~10GHz, Test with highpass filter (Pass Frequency: 2.8-18G).
4. No report for the emission which below the prescribed limit.



Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode 566MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



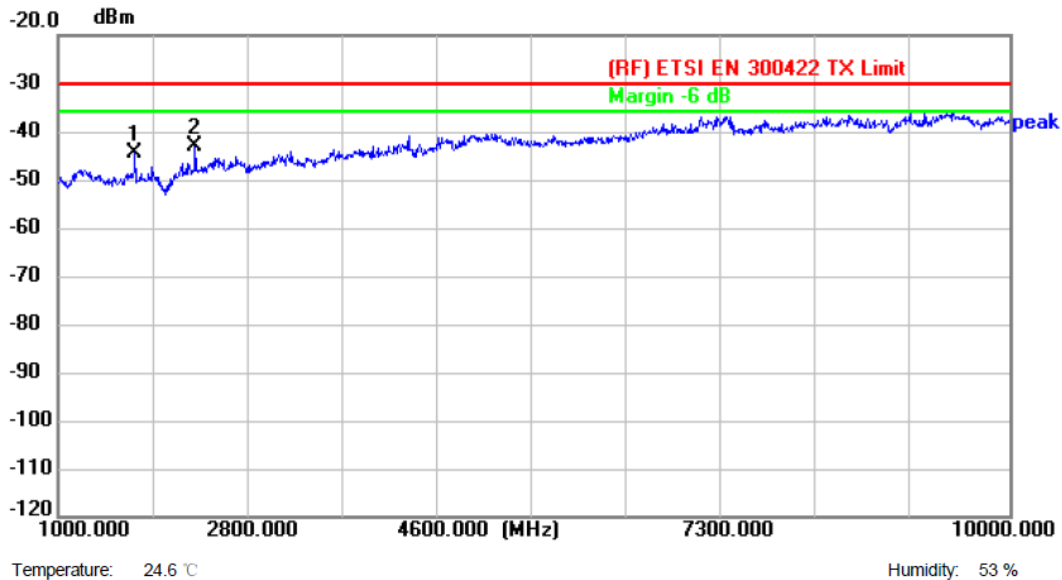
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	3592.000	-54.12	10.46	-43.66	-30.00	-13.66	peak
2 *	4321.000	-54.46	12.34	-42.12	-30.00	-12.12	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)
3. The tests evaluated 1~10GHz, Test with highpass filter (Pass Frequency: 2.8-18G).
4. No report for the emission which below the prescribed limit.



Test Voltage:	DC 3.7V
Ant. Pol.	Horizontal
Test Mode:	TX Mode 575MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



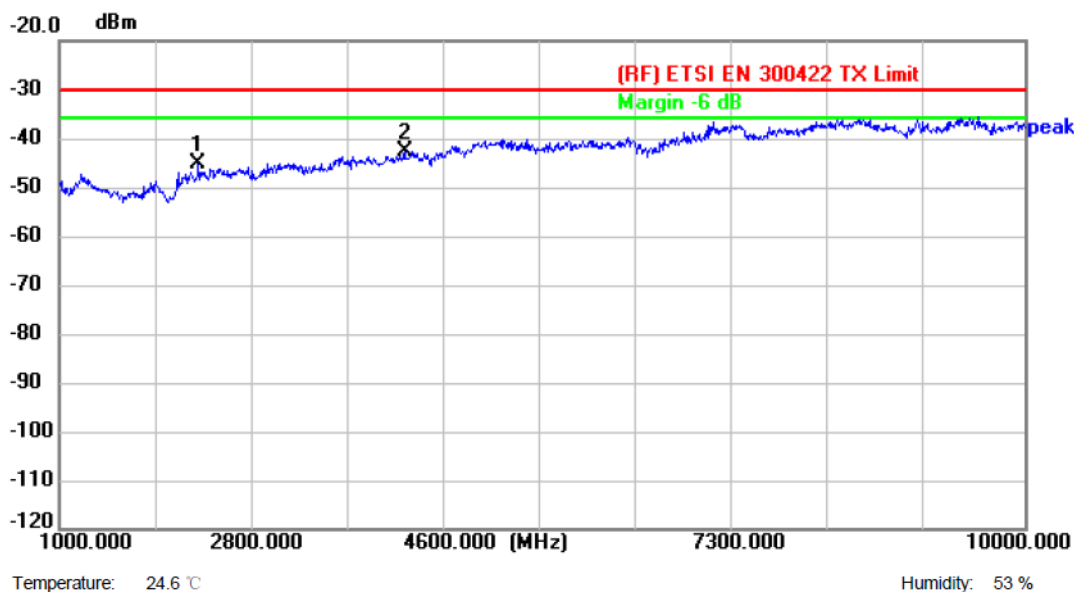
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	1729.000	-48.61	4.21	-44.40	-30.00	-14.40	peak
2 *	2296.000	-49.12	6.18	-42.94	-30.00	-12.94	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)
3. The tests evaluated 1~10GHz, Test with highpass filter (Pass Frequency: 2.8-18G).
4. No report for the emission which below the prescribed limit.



Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode 575MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



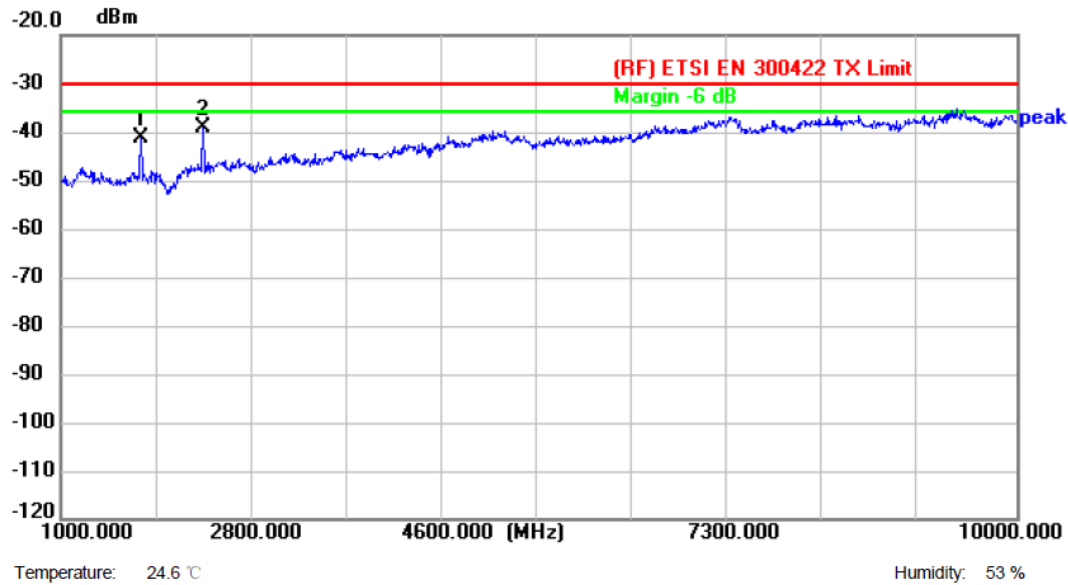
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	2296.000	-51.52	6.26	-45.26	-30.00	-15.26	peak
2 *	4222.000	-54.02	11.48	-42.54	-30.00	-12.54	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)
3. The tests evaluated 1~10GHz, Test with highpass filter (Pass Frequency: 2.8-18G).
4. No report for the emission which below the prescribed limit.



Test Voltage:	DC 3.7V
Ant. Pol.	Horizontal
Test Mode:	TX Mode 585MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



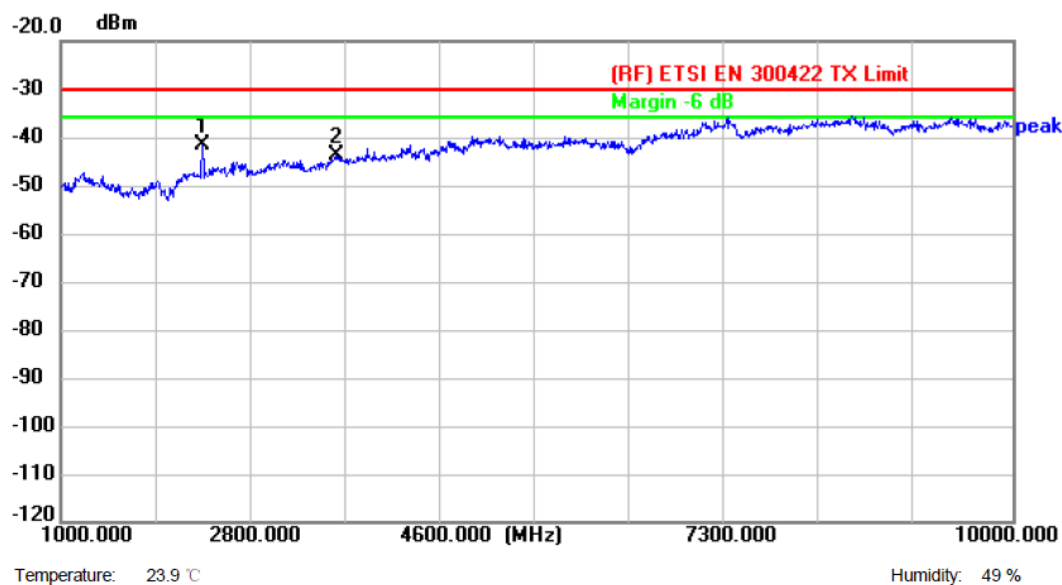
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1	1756.000	-45.64	4.37	-41.27	-30.00	-11.27	peak
2 *	2341.000	-45.46	6.23	-39.23	-30.00	-9.23	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)
3. The tests evaluated 1~10GHz, Test with highpass filter (Pass Frequency: 2.8-18G).
4. No report for the emission which below the prescribed limit.



Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode 585MHz
Remark:	All channels were tested and only the worst channels were shown in the report.



No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
1 *	2341.000	-48.04	6.30	-41.74	-30.00	-11.74	peak
2	3601.000	-54.34	10.59	-43.75	-30.00	-13.75	peak

Remark:

1. Corr. = Antenna Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Peak(dBm) - Limit (dBm)
3. The tests evaluated 1~10GHz, Test with highpass filter (Pass Frequency: 2.8-18G).
4. No report for the emission which below the prescribed limit.



Attachment F--Frequency Stability Test Data

Pressure:	1020hPa	Test Voltage :		DC 3.7V	
Test Mode :	TX 566MHz (Modulation)				
Remark:	All channels were tested and only the worst channels were shown in the report.				
Test Conditions		Measurement	Test Conditions		Measurement
Test Temperature	Test Voltage	Frequency(MHz)	Test Voltage	Test Temperature	Frequency(MHz)
-20°C	DC 3.7V	566	85%	20°C	566.013
-10°C		566	95%		566.012
0°C		566	100%		566.015
10°C		566	105%		566.015
20°C		566	110%		566.014
30°C		566	115%		566.015
40°C		566			
50°C		566			
Max. Deviation Frequency					0.015
Max. Frequency Error					0.003%
Limits					±0.005%
Result					PASS
Note: The frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency.					



Pressure:	1020hPa	Test Voltage :			DC 3.7V
Test Mode :	TX 575MHz (Modulation)				
Remark:	All channels were tested and only the worst channels were shown in the report.				
Test Conditions		Measurement	Test Conditions		Measurement
Test Temperature	Test Voltage	Frequency(MHz)	Test Voltage	Test Temperature	Frequency(MHz)
-20°C	DC 3.7V	575	85%	20°C	575.012
-10°C		575	95%		575.011
0°C		575	100%		575.012
10°C		575	105%		575.012
20°C		575	110%		575.015
30°C		575	115%		575.015
40°C		575			
50°C		575			
Max. Deviation Frequency					0.015
Max. Frequency Error					0.003%
Limits					±0.005%
Result					PASS
Note: The frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency.					



Pressure:	1020hPa	Test Voltage :			DC 3.7V
Test Mode :	TX 585MHz (Modulation)				
Remark:	All channels were tested and only the worst channels were shown in the report.				
Test Conditions		Measurement	Test Conditions		Measurement
Test Temperature	Test Voltage	Frequency(MHz)	Test Voltage	Test Temperature	Frequency(MHz)
-20°C	DC 3.7V	585	85%	20°C	585.012
-10°C		585	95%		585.013
0°C		585	100%		585.012
10°C		585	105%		585.017
20°C		585	110%		585.013
30°C		585	115%		585.014
40°C		585			
50°C		585			
Max. Deviation Frequency					0.017
Max. Frequency Error					0.003%
Limits					±0.005%
Result					PASS
Note: The frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency.					

-----END OF THE REPORT-----

