

FCC&ISED RF TEST REPORT No. 171101441SHA-001

Applicant: Yanzi Networks AB

Isafjordsgatan 32C, 16440 Kista Sweden

Manufacturer : Yanzi Networks AB

Isafjordsgatan 32C, 16440 Kista Sweden

Product Name : Presence Mini

Type/Model: MDH3-1620

TEST RESULT : PASS

SUMMARY

The equipment complies with the requirements according to the following standard(s) or specification:

47CFR Part 15 (2016): Radio Frequency Devices

ANSI C63.10 (2013): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-247 Issue 2 (February 2017): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 4 (November 2014): General Requirements for Compliance of Radio Apparatus

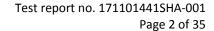
Date of issue: November 24, 2017

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FCC ID: 2AE7LMDH3-1620 IC: 20363-MDH31620

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1 GENERAL INFORMATION

1.1 Description of Client

Applicant: Yanzi Networks AB

Isafjordsgatan 32C, 16440 Kista Sweden

Manufacturer : Yanzi Networks AB

Isafjordsgatan 32C, 16440 Kista Sweden

1.2 Identification of the EUT

Product Name : Presence Mini

Type/model: MDH3-1620

FCC ID : 2AE7LMDH3-1620

IC: 20363-MDH31620

1.3 Technical Specification

Operation Frequency : 2400 – 2483.5 MHz

Band

Protocol: IEEE 802.15.4

Type of Modulation : O-QPSK

Channel Number : 16 channels

Description of EUT : The EUT is sensor for measuring occupancy in office buildings.

Antenna: 0.5dBi Chip antenna

Rating: 3V DC

EUT for : | Fixed use

vehicular use portable use

Category of EUT : Class B

EUT type : X Table top

Floor standing

Sample received date : November 16, 2017

Date of test : November 16, 2017 ~ November 23, 2017



2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2016) ANSI C63.10 (2013) RSS-247 Issue 2 (February 2017) RSS-Gen Issue 4 (November 2014) KDB 558074 (v04)

2.2 Mode of operation during the test

Within this test report, EUT was tested with modulation and tested under its rating voltage and frequency.

Three axes (X, Y, Z) were observed while the test receiver worked as "max hold" continuously and the highest reading among the whole test procedure was recorded. Compare with the test results that Z axis is the worst case.

The lowest, middle and highest channel were tested as representatives.

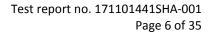
Freq. Band	Modulation	Lowest	Middle	Highest
(MHz)		(MHz)	(MHz)	(MHz)
2400-2483.5	O-QPSK	2405	2440	2480

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Brand and Model	Description
1	Laptop computer	HP, EliteBook 2530P	Only set parameters of the EUT, while testing without this PC





2.5 Antenna Requirement:

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.

The EUT used a internal Chip antenna weld on PCB, so fulfill these requirements.



2.6 Instrument list

Selected	Equipment	Туре	Manu.	Internal no.	Cal. Date	Due date
×	PXA Analyzer	N9030A	Agilent	EC5338	2017/3/3	2018/3/2
×	Vector SG	N5182B	Agilent	EC5175	2017/3/3	2018/3/2
×	Power sensor	U2021XA	Agilent	EC5338-1	2017/3/3	2018/3/2
×	MXG Analog SG	N5181A	Agilent	EC5338-2	2017/3/3	2018/3/2
×	Power meter	N1911A/N1921A	Agilent	EC4318	2017/5/18	2018/5/17
×	EMI Receiver	ESCS 30	R&S	EC 2107	2017/10/19	2018/10/18
×	A.M.N.	ESH2-Z5	R&S	EC 3119	2015/12/16	2017/12/15
×	I.S.N.	FCC-TLISN-T8-02	FCC	EC3756	2017/2/15	2018/2/14
×	EMI chamber	3m	Albatross	EC 3048	2017/9/10	2018/9/9
×	Test Receiver	ESIB 26	R&S	EC 3045	2017/10/19	2018/10/18
×	Test Receiver	ESCI 7	R&S	EC4501	2017/2/23	2018/2/22
×	Bilog Antenna	CBL 6112D	TESEQ	EC 4206	2017/6/2	2018/6/1
×	Horn antenna	HF 906	R&S	EC 3049	2017/9/24	2018/9/23
×	Horn antenna	HAP18-26W	TOYO	EC 4792-3	2017/6/12	2018/6/11
×	Pre-amplifier	Pre-amp 18	R&S	EC 5262	2017/6/30	2018/6/29
×	Pre-amplifier	Tpa0118-40	R&S	EC 4792-2	2017/4/10	2018/4/9
×	Shielded room	-	Zhongyu	EC 2838	2017/1/8	2018/1/7



2.7 Test Summary

This report applies to tested sample only. The test results have been compared directly with the limits, and the measurement uncertainty is recorded. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-247 Issue 2 Clause 5.2	Pass
Maximum peak output power	15.247(b)	RSS-247 Issue 2 Clause 5.4	Pass
Power spectrum density	15.247(e)	RSS-247 Issue 2 Clause 5.2	Pass
Radiated Emissions in restricted frequency bands	15.205 & 15.209	RSS-247 Issue 2 Clause 5.5	Pass
Emission outside the frequency band	15.247(d)	RSS-Gen Issue 4 Clause 8.9	Pass
Power line conducted emission	15.207	RSS-Gen Issue 4 Clause 8.8	NA
Occupied bandwidth	-	RSS-Gen Issue 4 Clause 6.6	Tested

Notes: 1: NA =Not Applicable

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2.8 Measurement uncertainty

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

Test item	Measurement uncertainty
Maximum peak output power	±0.74 dB
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB



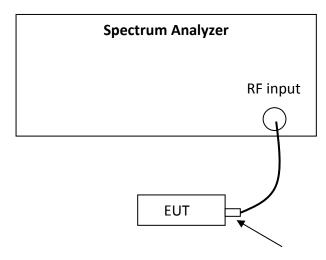
3 Minimum 6dB Bandwidth

Test result: Pass

3.1 Limit

For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

3.2 Test Configuration



Antenna connector

3.3 Test Procedure and test setup

The minimum 6dB bandwidth per FCC §15.247(a)(2) is measured using the Spectrum Analyzer according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" for compliance to FCC 47CFR 15.247 requirements(clause 8.2).

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 × RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



3.4 Test Protocol

Temperature: 22°C Relative Humidity: 54%

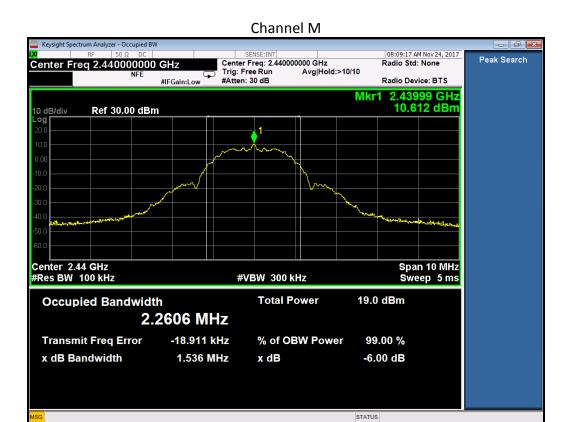
Channel	Minimum 6dB Bandwidth (MHz)	Limits (MHz)
L	1.551	≥ 0.5
M	1.536	≥ 0.5
Н	1.553	≥ 0.5

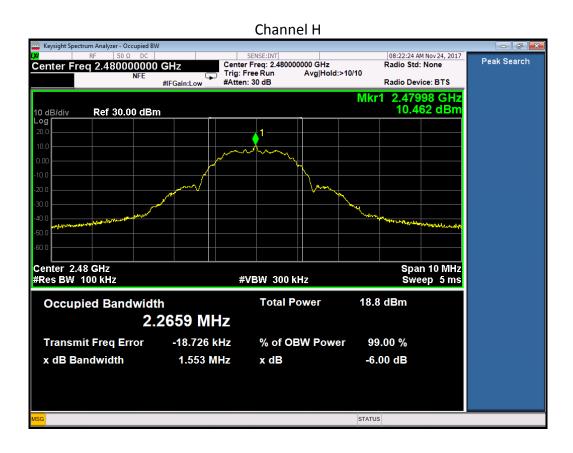
Channel	99% Occupy Bandwidth (MHz)	Limits (MHz)
L	2.2433	/
M	2.2606	/
Н	2.2659	/

Channel L









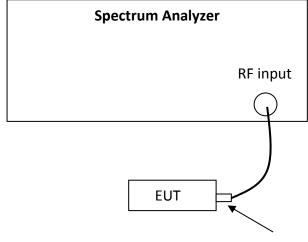


4 Maximum Conducted Output power

Test result:	Pass
4.1 Test limit	
	y hopping systems operating in the 2400-2483.5 MHz band employing at leasting hopping channels, and all frequency hopping systems in the 5725-5850
For all other	frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts
—	using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and bands: 1 Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 30dBm and 30+ (6 –antenna gain-beam forming gain).

4.2 Test Configuration



Antenna connector

4.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" for compliance to FCC 47CFR 15.247 requirements (clause 9.2.2.4).

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.



4.4 Test protocol

Temperature: 22 °C Relative Humidity: 54 %

Channel	Conducted Power (dBm)	Limit (dBm)
L	13.199	30
М	12.758	30
Н	12.688	30

Conclusion: The maximum EIRP = 13.199dBm+0.5dBm = 13.699dBm = 23.44W which is lower than the limit of 4W listed in RSS-247.



5 Power spectrum density

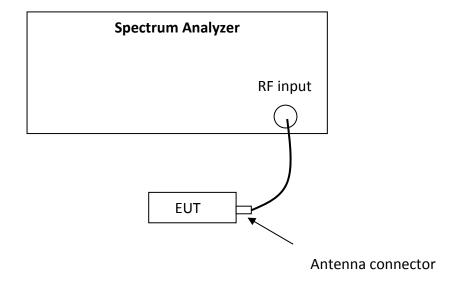
Test result: Pass

5.1 Test limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and 8+ (6 –antenna gain-beam forming gain).

5.2 Test Configuration





5.3 Test procedure and test setup

The power output per FCC §15.247(e) was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 10.2) for compliance to FCC 47CFR 15.247 requirements.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 × RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



5.4 Test Protocol

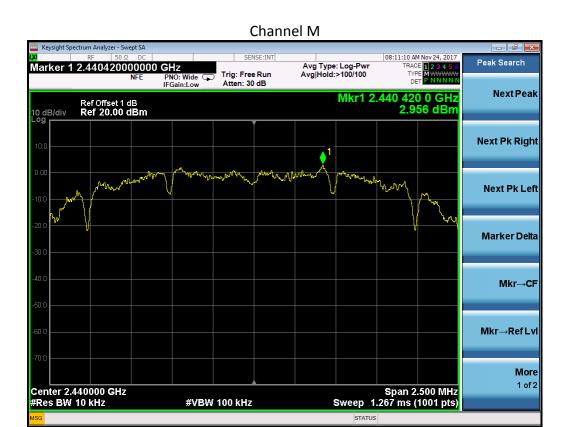
Temperature: 22°C Relative Humidity: 54%

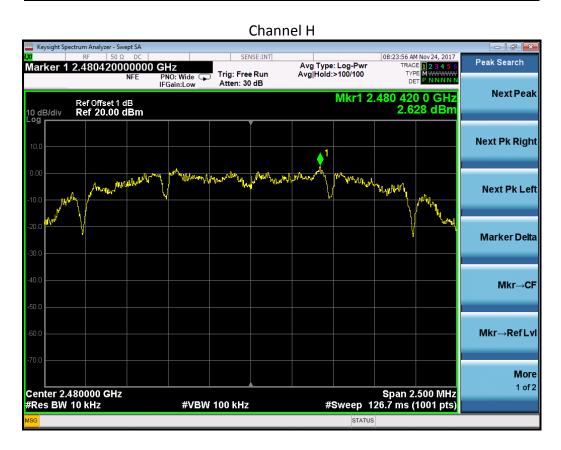
Channel	PSD (dBm)	RBW (kHz)	Limit (dBm)
L	3.372	10	8
М	2.956	10	8
Н	2.628	10	8

Channel L











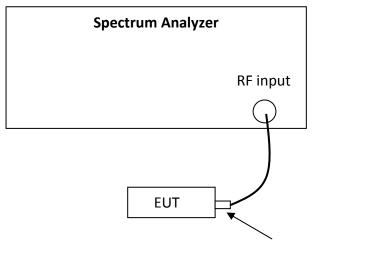
6 Emission outside the frequency band

Test result: Pass

6.1 Test limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

6.2 Test Configuration



Antenna connector

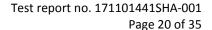
6.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to \geq 1.5 times the *DTS bandwidth*.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.





Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 3 x RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

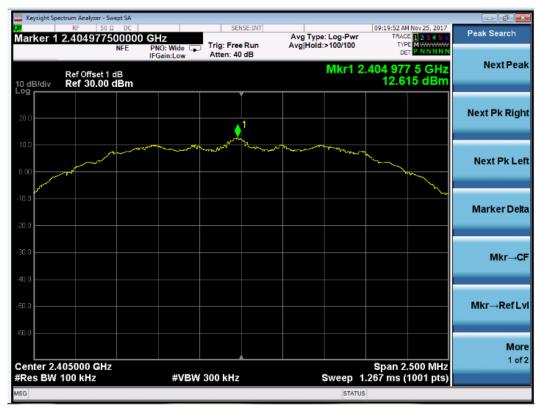
6.4 Test Protocol

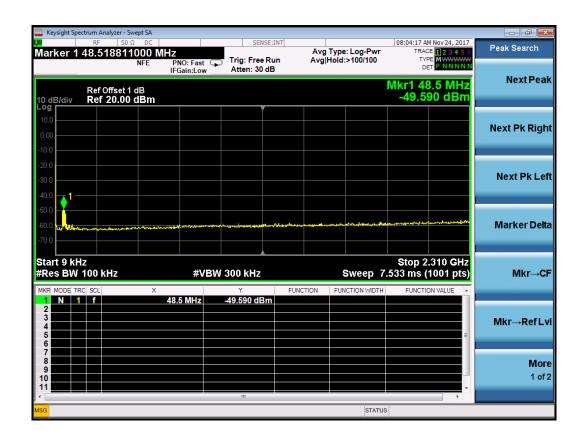
Temperature: 22°C Relative Humidity: 54%

Channel	Reference Level (dBm)	Max Emission Level (dBm)	Limit (dBm)	Result
L	12.615	-31.901	-7.385	Pass
М	12.474	-43.266	-7.526	Pass
Н	12.084	-39.298	-7.916	Pass

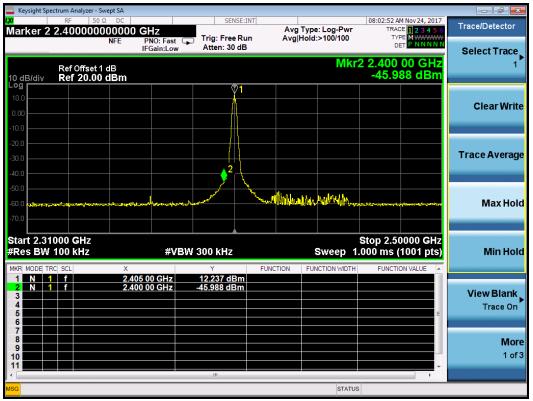


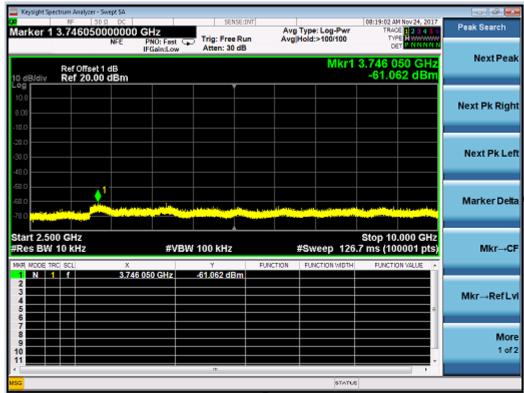
Channel L











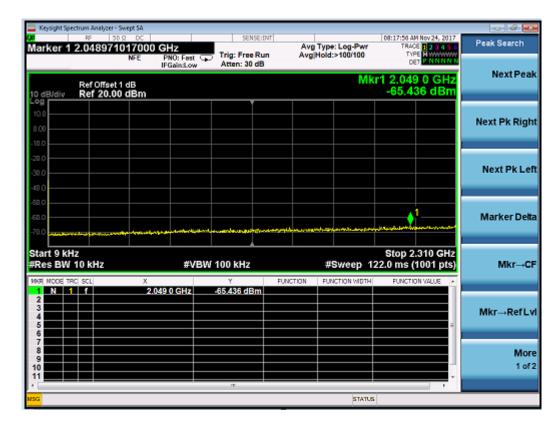




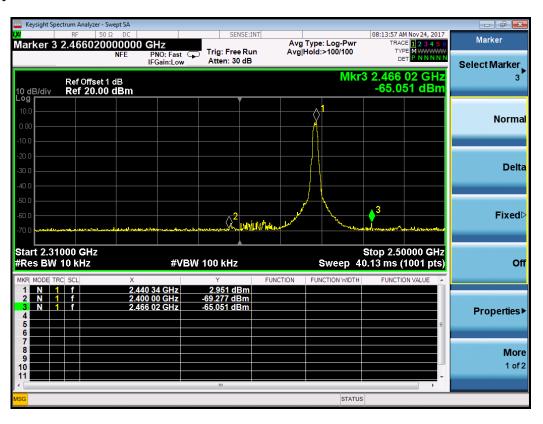


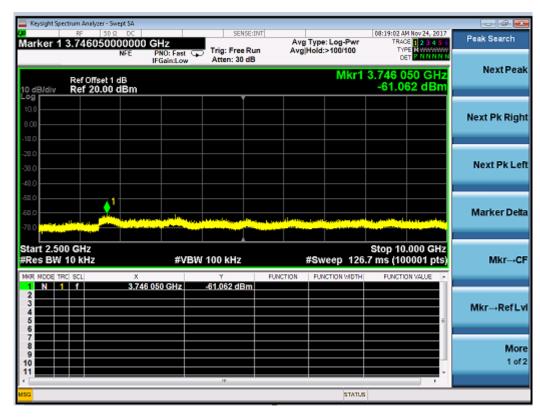
Channel M



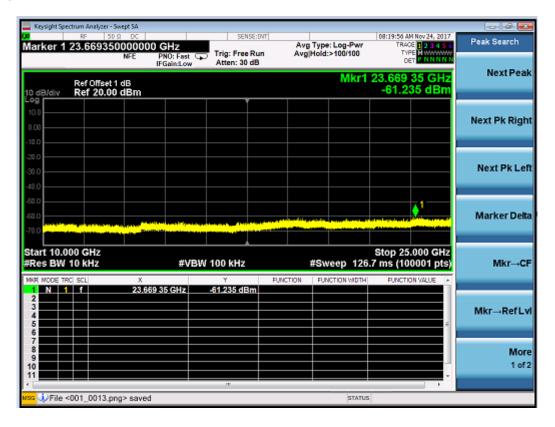








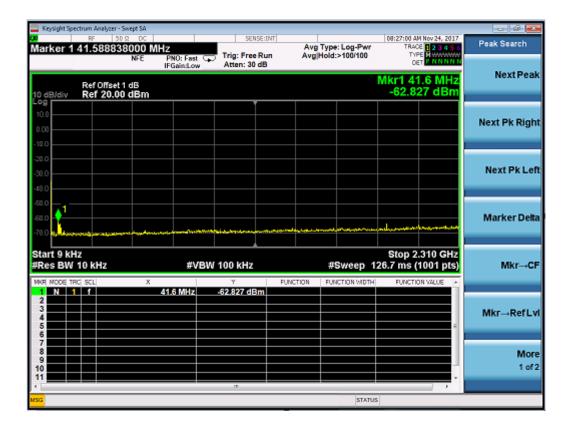




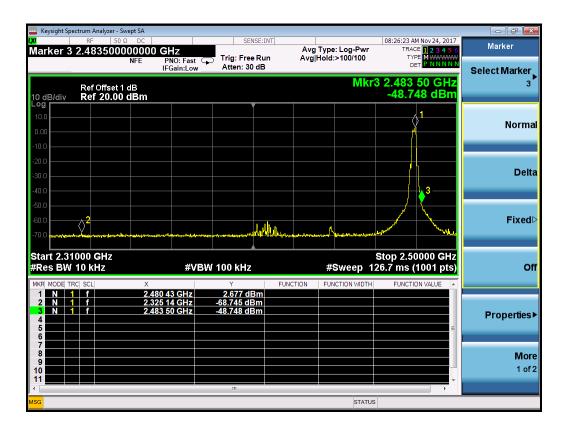


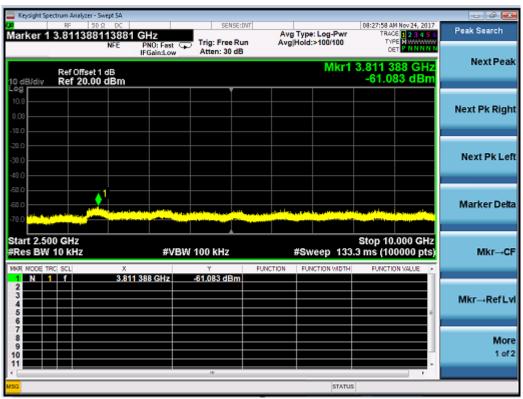
Channel H













7 Radiated Emissions in restricted frequency bands

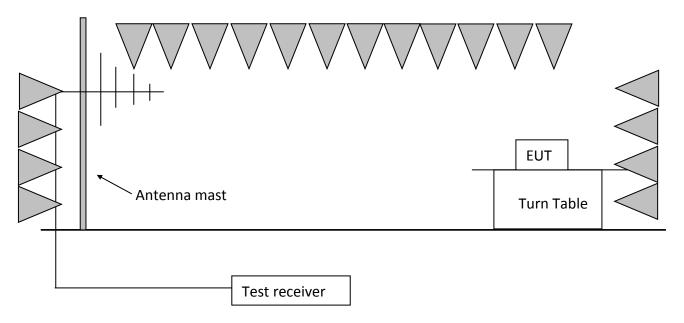
Test result: Pass

7.1 Test limit

The radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/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

7.2 Test Configuration





7.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m.

The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The EUT was tested according to DTS test procedure of KDB558074 D01 DTS "Meas Guidance" for compliance to FCC 47CFR 15.247 requirements.

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

```
RBW = 300 Hz, VBW = 1 kHz (9 kHz~150 kHz);

RBW = 10 kHz, VBW = 30 kHz (150 kHz~30MHz);

RBW = 100 kHz, VBW = 300 kHz (30MHz~1GHz for PK)

RBW = 1MHz, VBW = 3MHz (>1GHz for PK);
```

Remark:

- 1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- 2. Measured level= Original Receiver Reading + Factor
- 3. Margin = Limit Measured level
- 4. If the PK measured level is lower than AV limit, the AV test can be elided.

Example:

Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB, Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV. Then Factor = 30.20 + 2.00 - 32.00 = 0.20dB/m; Measured level = 10dBuV + 0.20dB/m = 10.20dBuV/m Assuming limit = 54dBuV/m, Measured level = 10.20dBuV/m, then Margin = 54 - 10.20 = 43.80dBuV/m.



7.4 Test Protocol

Temperature: 22°C Relative Humidity: 54%

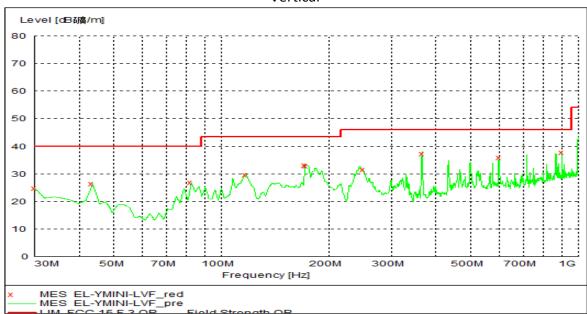
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

The worst waveform from 30MHz to 1000MHz is listed as below:

Horizontal



Vertical



Note: The worst test result (30MHz to 1GHz) of channel L (2405MHz) chosen to list in the report as representative.



Test result from 30MHz to 1000MHz:

Polarization	Frequency	Corrected	Correct	Limit	Margin	Detector
	(MHz)	Reading	Factor	(dBuV/m)	(dB)	
		(dBuV/m)	(dB/m)			
	366.29	41.40	16.40	46.00	4.60	PK
Н	498.48	41.70	19.30	46.00	4.30	PK
	729.80	42.00	21.30	46.00	4.00	PK
	366.29	37.20	16.40	46.00	8.80	PK
V	601.50	35.90	20.60	46.00	10.10	PK
	900.86	37.80	23.00	46.00	8.20	PK

Test result above 1GHz:

Channel	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	2405.20	107.26	34.34	Fundamental	/	PK
L	Н	2390.00	51.28	34.29	74.00	22.72	PK
	Н	4810.00	52.46	2.70	74.00	21.54	PK
М	Н	2440.25	107.20	34.48	Fundamental	/	PK
	Н	2475.24	107.38	34.62	Fundamental	/	PK
Н	Н	2483.50	52.14	34.63	74.00	21.86	PK
	Н	4950.00	51.33	2.77	74.00	22.67	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)

- 2. Corrected Reading = Original Receiver Reading + Correct Factor
- 3. Margin = limit Corrected Reading

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,

Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV.

Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m; Corrected Reading = 10dBuV

+ 0.20 dB/m = 10.20 dBuV/m

Assuming limit = 54dBuV/m, Corrected Reading = 10.20dBuV/m, then Margin = 54 - 10.20 = 43.80dBuV/m



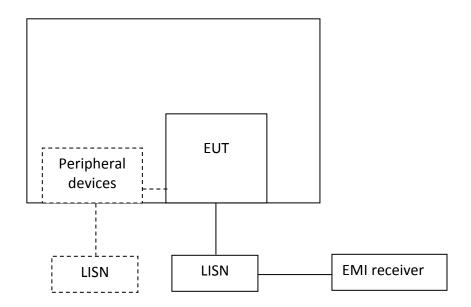
8 Power line conducted emission

Test result: NA

8.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
, , , , , , , , , , , , , , , , , , , ,	QP	AV			
0.15-0.5	66 to 56*	56 to 46 *			
0.5-5	56	46			
5-30	60	50			
* Decreases with the logarithm of the frequency.					

8.2 Test configuration



For table top equipment, wooden support is 0.8m height table

For floor standing equipment, wooden support is 0.1m height rack.

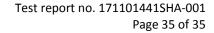


8.3 Test procedure and test set up

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.





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Temperature: °C Relative Humidity: %

L line:

Test Curve:

Test Data:

Fraguancy		Quasi-peal	<	Fraguency Average	Average		
Frequency (MHz)	Level	Limit	Margin	Frequency (MHz)	Level	Limit	Margin
(IVIHZ)	dB(μV)	dB(μV)	dB	(IVITZ)	dB(μV)	dB(μV)	dB

Test Curve:

Test Data:

Frequency (MHz)		Quasi-peal	<	Fraguancy	Average		
	Level dB(µV)	Limit dB(μV)	Margin dB	Frequency (MHz)	Level dB(μV)	Limit dB(μV)	Margin dB