

TEST REPORT

**This laboratory is accredited by National Radio Research
Agency Laboratory and National Voluntary Laboratory
Accreditation Program.**

The tests reported herein have been performed in accordance with
its terms of accreditation.

Test Report No. : LR500112011G
Issue Date : November 06, 2020
Applied Standard : FCC Part 15, Subpart B and ICES-003
Trade Name : Hanwha Techwin Co., Ltd.
Equipment Name : NVR
Model Name : XRN-1620B2
Serial Number : Identification

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



Revision history

Revision	Date of issue	Test report No.	Description
0	06.11.2020	LR500112011G	Initial

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LTA Certification

Applicant / Manufacturer

Company name : Hanwha Techwin Co., Ltd.
Address : 6, Pangyo-ro 319 Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488, KOREA
Telephone / Facsimile : +82-70-7147-8753(<http://hanhwa-security.com>)

Factory #1

Company name : HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.
Address : Lot O-2, Que Vo Industrial Zone extended area ,Nam Son commune,
Bac Ninh city,Bac Ninh province, Vietnam

Factory #2

Company name : D-TECH CO.,LTD.
Address : 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea
(Suwon Industrial Complex)

Equipment Under Test (EUT)

Equipment Name : NVR
Model name : XRN-1620B2
Serial number : Identification
Intended environment : Residential area
Date of receipt : October 13, 2020
EUT condition : Pre-production, not damaged
Interface ports : AC IN, USB(3EA), AUDIO OUT, VGA OUT, HDMI, ALARM IN, ALARM
OUT, ALARM GROUND, NETWORK 1, NETWORK 2
Power rating : AC 120 V, 60 Hz
Test Mode : REC mode
Test Voltage : AC 120 V, 60 Hz

Model Description

- NONE

Model Specification

- NONE

*** To be continued next page ***

LTA Certification –cont.-**Test Performed**

Test started & completed : October 29 – November 03, 2020
Location : LTA Co., Ltd.

Test Specification

Purpose of the test : Compliance test to the following standard
Applied standard : FCC Part 15, Subpart B and ICES-003
Classification : Class A
Deviations from Standard Test Method : N/A

Test Results

Measurement	Results*	Test method
Conducted Emissions	Complies	ANSI C 63.4-2014
Radiated Emissions	Complies	ANSI C 63.4-2014

* : The compliance statement is based on nominal value only.

Modification performed by the lab.:

- N.A

Laboratory's Certificate

Report number : LR500112011G
Issue date : November 06, 2020

This test report is issued under the authority of:

The test was supervised by:



Young Kyu Shin, Technical Manager



Yu Hyeon Nam, Test Engineer

The results in this report apply only to the sample(s) tested.

It is not allowed to copy this report even partly without the allowance of the test laboratory.

General information's

Purpose

This document is based on the Electromagnetic Interference (EMI) tests performed on the “**XRN-1620B2**”. The measurements were performed according to the measurement procedure described in ANSI C 63.4-2014. The tests were carried out in order to confirm whether the electromagnetic emissions from the EUT(Equipment Under Test), are within the Class A limits defined in FCC Part 15, Subpart B- “Section 15.107- Conducted limits” and “Section 15.109-Radiated emission limits”.

Test Performed

Company name : **LTA Co., Ltd**
Address : 4, Songju-ro 236beon-gil, Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17159, Korea
Telephone : +82-31-323-6008
Facsimile : +82-31-323-6010

Measurement uncertainty

Conducted Emissions (0.15 to 30 MHz) : ± 2.80 [dB] (k=2)
Radiated Emissions (30 to 1,000 MHz) : H : ± 4.28 [dB] (k=2) V : ± 4.73 [dB] (k=2)
(1 GHz to 6 GHz) : H : ± 5.89 [dB] (k=2) V : ± 5.89 [dB] (k=2)
(6 GHz to 18 GHz) : H : ± 5.94 [dB] (k=2) V : ± 5.98 [dB] (k=2)

The coverage factor k=2 yields approx. a 95% level of confidence for near-normal distribution typical of most measurement results.

Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2021-09-30	ECT accredited Lab.
	KOREA		-	
RRA	U.S.A	KR0049	2021-04-11	RRA accredited Lab.
	CANADA		2021-06-16	
	VIETNAM		2021-04-12	
		C-14948	2023-09-10	
VCCI	JAPAN	T-12416	2023-09-10	VCCI registration
		R-14483	2023-10-15	
		G-10847	2021-12-13	
KOLAS	KOREA	KT551	2021-08-20	KOLAS accredited Lab.

1- Brief Information

1-1 Test Summary

Parameter	Applied Standard	Status (note 1)
I. Emission		
Conducted Emissions	FCC Part 15.107 / ICES-003 Clause 6.1	C
Radiated Emissions	FCC Part 15.109 / ICES-003 Clause 6.2	C
Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable		
* The data in this test report are traceable to the national or international standards.		

Frequency range to be scanned:

0.15 MHz - 30 MHz as conducted measurement

30 MHz to 5th harmonic of the highest frequency or 40 GHz, whichever is lower as radiated measurement.

Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz to 30 MHz and 120 kHz in the frequency 30 MHz to 1,000 MHz.

Measured by the Peak function Bandwidth is 1 MHz in the frequency 1 GHz to 40 GHz.

A sample calculation:

COR. F (correction factor)= Antenna factor + Cable loss- Amp.gain- Distance correction

Emission Level= meter reading + COR.F

1-2 Test mode of the EUT

The tests have been conducted with the following operational mode(s) of the EUT.

REC mode

1-3 Modification

- NONE

1-4 List of EUT and ACCESSORY

EUT				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
NVR	XRN-1620B2	N/A	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD. D-TECH CO.,LTD.	-
Mouse	MOKJUO	08F03755	Primax Electronics Ltd.	-
ACCESSORY				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
PoE Injector	SFC501G	N/A	Soltech Infonet Co., Ltd.	-
JIG board	MR9-V-0	N/A	N/A	-
Ear Phone	N/A	N/A	N/A	-
Notebook PC	H57	HKN650DU0007G002 76	HANSUNG	-
Notebook PC Adapter	A10-090P3A	F180261621014661	Chicony	-
Network Camera	QND-8021	N/A	HANWHA TECHWIN CO.,LTD	-
Monitor #1	24BK550YW	902NTSU7P406	LG	-
Monitor #2	24BK550YW	902NTLE7P384	LG	-
USB Memory Stick #1	N/A	N/A	N/A	8 GB
USB Memory Stick #2	N/A	N/A	N/A	8 GB
HDD	SC HA500	WCC7K5JKX30E	Westem Digital	4 TB

1-5 Cable List

Cable List						
From		To		Length (m)	Shielding	
Type	I/O Port	Type	I/O Port		Cable	backshell
EUT	AC IN	AC Power Source	3 Pin AC Line	1.2	NO	Plastic
	USB	Mouse	USB	1.0	NO	Plastic
	USB	USB Memory Stick #1	USB	-	-	Plastic
	USB	USB Memory Stick #2	USB	-	-	Plastic
	AUDIO OUT	Ear Phone	AUX	0.9	NO	Plastic
	NETWORK 1	PoE Injector	DATA IN	1.0	NO	Plastic
	NETWORK 2	Notebook PC	LAN	1.2	NO	Plastic
	VGA OUT	Monitor #1	VGA	1.2	YES	Plastic
	HDMI	Monitor #2	HDMI	1.1	YES	Plastic
	ALARM IN	JIG board	ALARM OUT	0.4	NO	Plastic
	ALARM OUT	JIG board	ALARM IN	0.4	NO	Plastic
	ALARM GROUND	JIG board	ALARM GROUND	0.4	NO	Plastic
PoE Injector	AC IN	AC Power Source	3 Pin AC Line	1.1	NO	Plastic
	P+D/OUT	Network Camera	LAN	1.0	NO	Plastic
Notebook PC	DC IN	Notebook PC Adapter	DC OUT	1.1	NO	Plastic
Notebook PC Adapter	AC IN	AC Power Source	3 Pin AC Line	1.0	NO	Plastic
Monitor #1	AC IN	AC Power Source	3 Pin AC Line	1.1	NO	Plastic
Monitor #2	AC IN	AC Power Source	3 Pin AC Line	1.3	NO	Plastic
HDD	DC IN	EUT	DC OUT	0.3	NO	Plastic
	SATA	EUT	SATA	0.3	NO	Plastic

2- Test Site Description

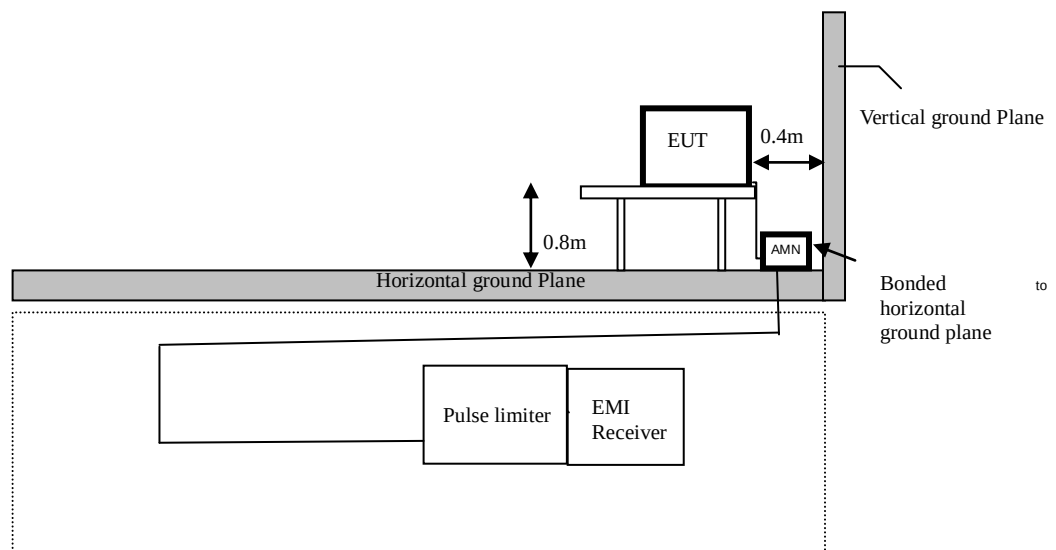
1-Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

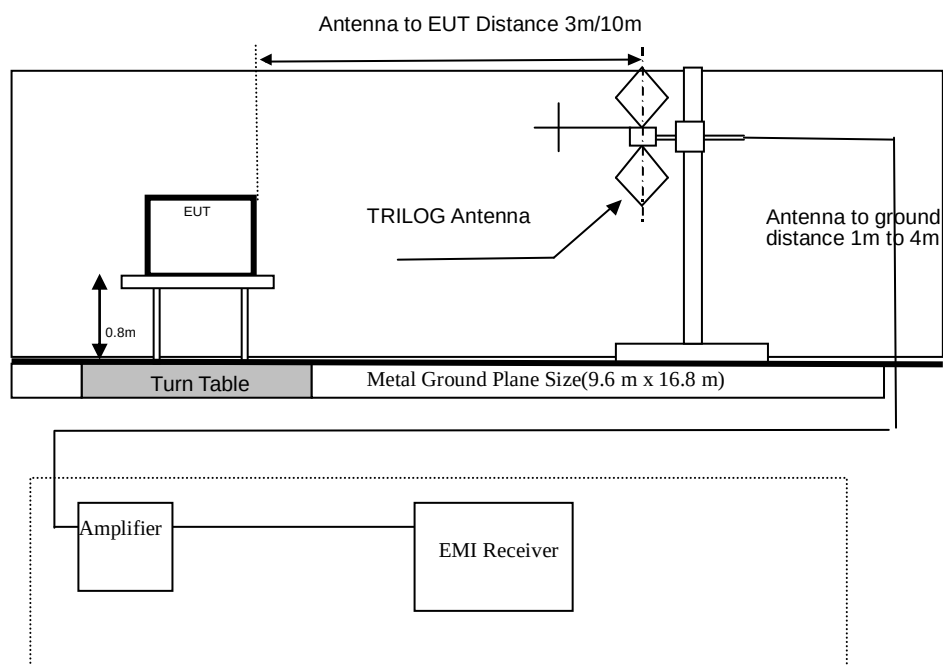
The NSA measurement of the 10 m chamber was performed on January 18, 2020 according to ANSI C 63.4:2014

The SVSWR measurement of the 10 m chamber was performed on January 18, 2020 according to ANSI C 63.4:2014

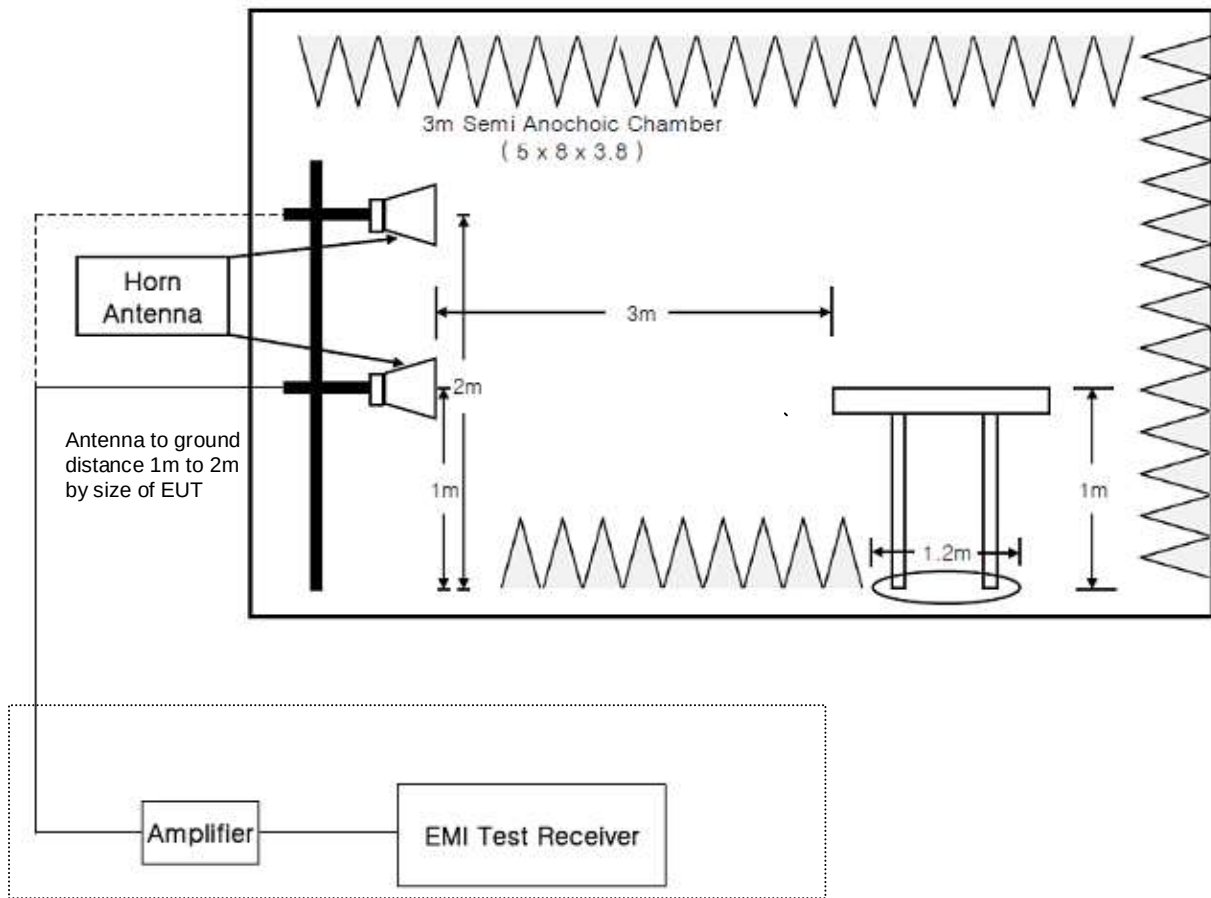
2-1 Conducted Emissions



2-2 Radiated Emissions – Below 1 GHz



2-3 Radiated Emissions – Above 1 GHz



3- Test Procedure

3-1 Conducted Emissions

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance ($50\ \Omega$ / $50\ \mu\text{H}$) as defined in ANSI C 63.4-2014., shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector.
(Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
 - searching the maximum frequency point of the disturbance wave in each frequency range.
 - reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
 - calculating the measurement result with the following formula or equation.
(Result = Reading + Cor.F.(LISN Factor + Cable Loss + Pulse Limiter)
(ex) = $13.23\ \text{dB}\mu\text{V} + (9.63\ \text{dB} + 0.01\ \text{dB} + 9.86\ \text{dB})$
 = $32.73\ \text{dB}\mu\text{V}$

3-2 Radiated Emissions – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m or 10 m.
 - The turntable can be rotated 360 degrees.
 - The antenna can be adjusted between 1 m and 4 m in height above the ground.
 - The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
 - Measurements are carried out using an EMI receiver with quasi-peak detectors (120 kHz bandwidth).
 - Refer to the list of test equipment used for the test.
 - The TRILOG antenna are used as wideband antenna.
 - The TRILOG antenna is used in the frequency range of 30 MHz to 1 000 MHz.
 - A variable attenuator is used for verifying amplifier's linearity.
 - Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
 - Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
 - Measurement is carried out by a LTA operator as manual operation.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:
- (Result = Reading + Cor.F (antenna factor + cable loss – PreAmp Gain)
- (ex) = 50.6 dB μ V/m + (11.08 dB(1/m) + 1.31 dB - 27.32 dB)
- = 35.67 dB μ V/m

3-3 Radiated Emissions – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- The HORN antenna are used as wideband antenna.
- The HORN antenna is used in the frequency range of 1 GHz to 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
- Measurement is carried out by a LTA operator as manual operation.
 - searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
 - setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m
 - reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4-2014.
 - measuring to vertical and horizontal polarization.
 - calculating the measurement result with the following formula or equation:
(Result = Reading + Cor.F (antenna factor + cable loss – PreAmp Gain)
(ex) = 35.9 dB μ V/m + (23.92 dB(1/m) + 7.01 dB - 38.33 dB)
 = 28.5 dB μ V/m

4- List of Equipment Used For the Tests

Conducted Emissions

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESR	Rohde & Schwarz	101499	2021.07.02	1 year
☒	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100710	2021.03.16	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	100378	2021.09.03	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	101468	2021.09.03	1 year
☒	LISN(main)	ENV216	Rohde & Schwarz	100408	2021.09.04	1 year
☒	LISN(sub)	LT32C/10	AFJ	32031518210	2021.09.03	1 year
☒	TEST PROGRAM	e3_ce 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Below 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESU	Rohde & Schwarz	100092	2021.09.03	1 year
☒	Amplifier (25 dB)	8447D	HP	2944A07684	2021.03.16	1 year
☐	BILOG Antenna	VULB 9168	SCHWARZBECK	775	2021.03.26 (KOLAS)	2 year
☒	BILOG Antenna	VULB 9168	SCHWARZBECK	775	2021.11.12 (RRA)	2 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Above 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESU	Rohde & Schwarz	100092	2021.09.03	1 year
☒	Amplifier	8449B	Agilent	3008A02126	2021.03.17	1 year
☐	Amplifier	PAM-840A	COM-POWER	461314	2021.03.16	1 year
☐	HORN ANTENNA	3116B	ETS	133350	2022.05.12	1 year
☐	HORN ANTENNA	3116B	ETS	81109	2022.05.12	1 year
☐	HORN ANTENNA	3115	ETS	114105	2021.09.17 (KOLAS)	2 year
☒	HORN ANTENNA	3115	ETS	114105	2021.11.11 (RRA)	2 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

5- EMISSION

5-1 Conducted Emissions

(LINE)



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Cheoin-gu, Youngin-si, Gyeonggi-do
449-822 Korea
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EUT /Model No. : XRN-1620B2

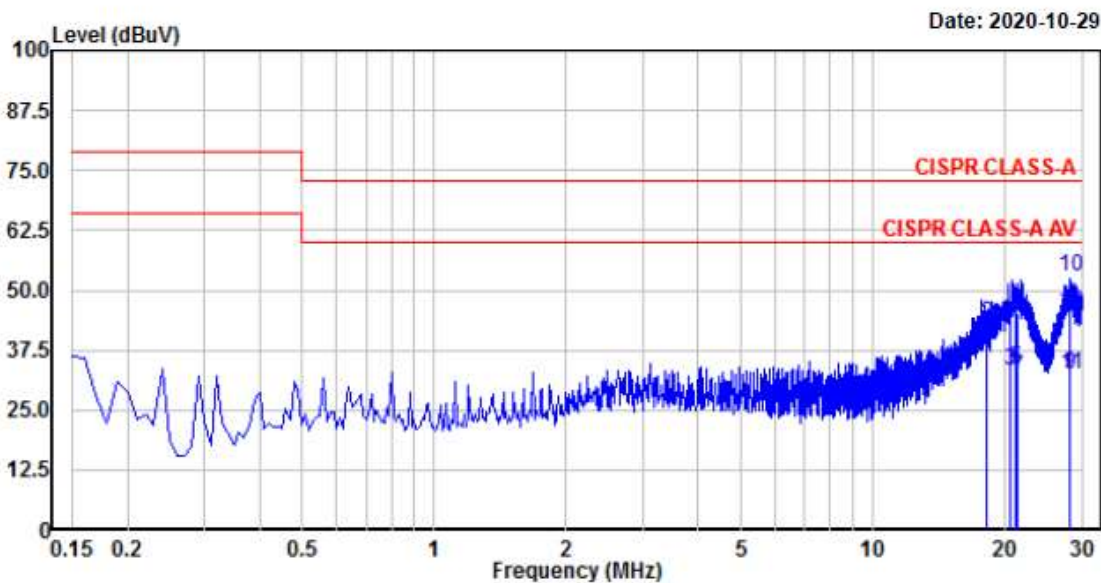
Phase : Line

Test Mode : REC mode

Test Power : 120 V / 60 Hz

Temp./ Humi. : 23 'C / 43 % R.H.

Test Engineer : NAM Y H



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	18.100	23.02	19.94	20.01	43.03	39.95	73.00	60.00	29.97	20.05	Line
4.	20.601	23.52	13.13	20.05	43.57	33.18	73.00	60.00	29.43	26.82	Line
6.	21.194	25.77	13.59	20.06	45.83	33.65	73.00	60.00	27.17	26.35	Line
8.	21.420	25.13	11.76	20.07	45.20	31.83	73.00	60.00	27.80	28.17	Line
10.	28.118	32.67	12.19	20.16	52.83	32.35	73.00	60.00	20.17	27.65	Line
12.	28.248	24.98	12.27	20.16	45.14	32.43	73.00	60.00	27.86	27.57	Line

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

(NEUTRAL)



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EUT /Model No. : XRN-1620B2

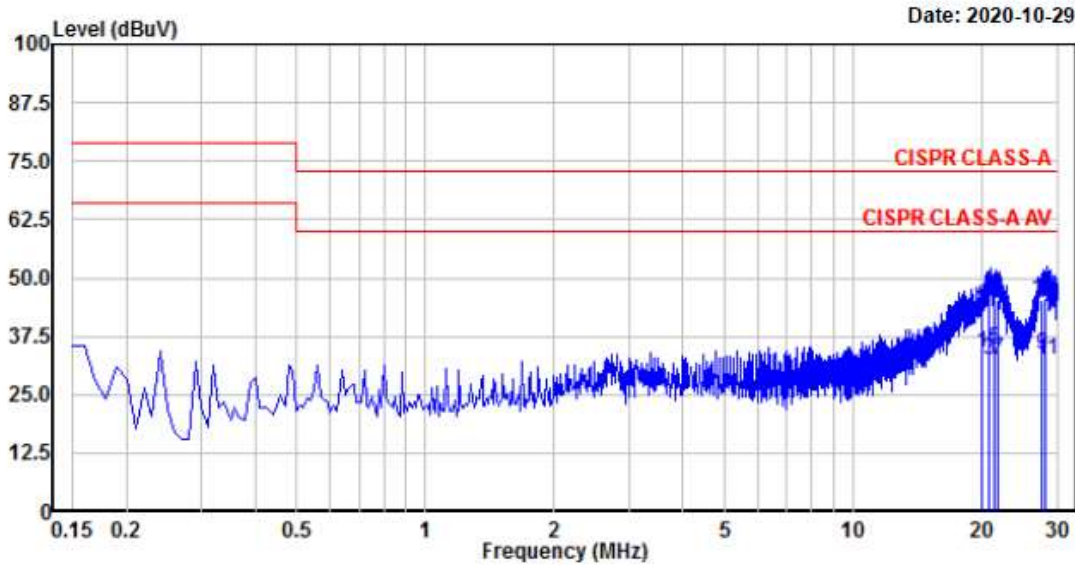
Phase : Neutral

Test Mode : REC mode

Test Power : 120 V / 60 Hz

Temp./ Humi. : 23 °C / 43 % R.H.

Test Engineer : NAM Y H



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	19.923	22.87	13.87	20.08	42.95	33.95	73.00	60.00	30.05	26.05	neutral
4.	20.796	24.68	12.24	20.09	44.77	32.33	73.00	60.00	28.23	27.67	neutral
6.	21.291	25.98	14.43	20.11	46.09	34.54	73.00	60.00	26.91	25.46	neutral
8.	21.798	25.06	12.38	20.12	45.18	32.50	73.00	60.00	27.82	27.50	neutral
10.	27.697	24.90	13.39	20.22	45.12	33.61	73.00	60.00	27.88	26.39	neutral
12.	28.160	25.46	12.21	20.24	45.70	32.45	73.00	60.00	27.30	27.55	neutral

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

5-2 Radiated Emissions

(Below 1GHz) / V



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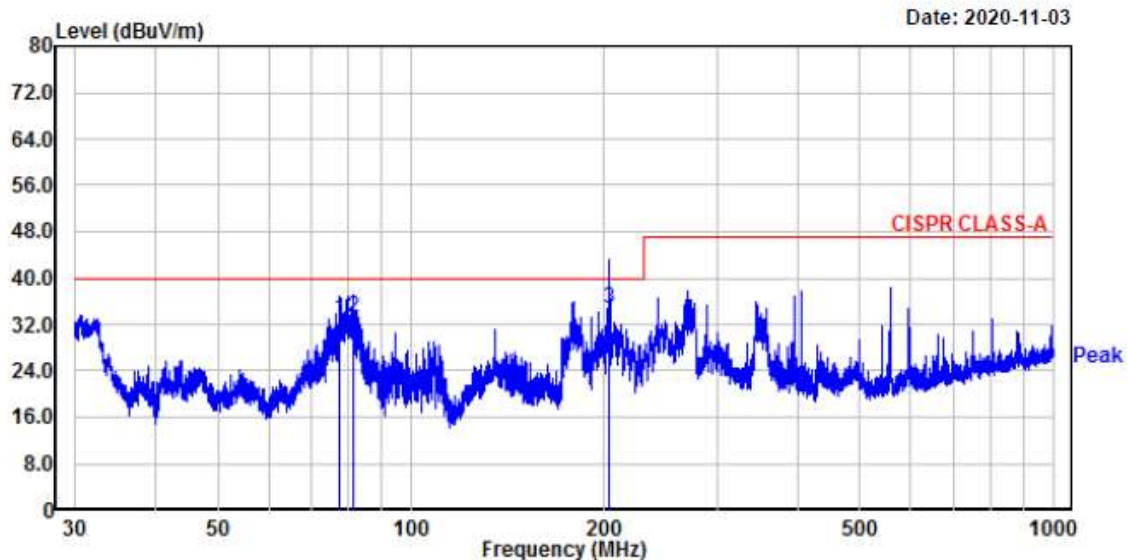
EUT/Model No.: XRN-1620B2

Temp/Humi: 21 'C / 43 % R.H.

Test Mode : REC mode

Tested by: NAM Y H

Power : 120 V / 60 Hz



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	77.19	49.85	-16.94	32.91	40.00	7.09	136	15	vertical
2.	81.21	50.78	-17.72	33.06	40.00	6.94	215	13	vertical
3.	203.79	49.80	-14.97	34.83	40.00	5.17	158	69	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

(Below 1 GHz) / H



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EUT/Model No.: XRN-1620B2

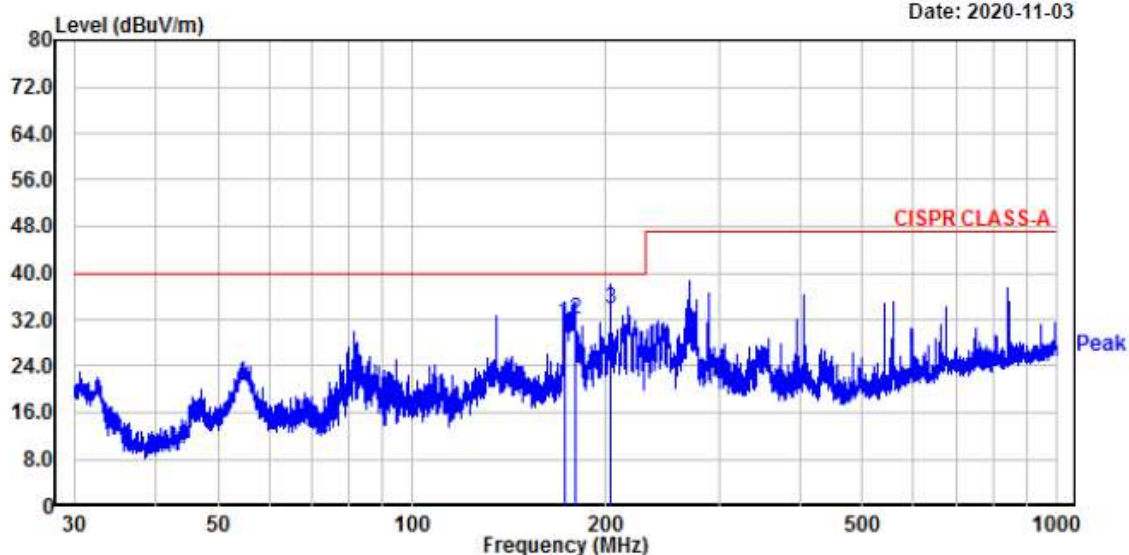
Temp/Humi: 21 'C / 43 % R.H.

Test Mode : REC mode

Tested by: NAM Y H

Power : 120 V / 60 Hz

Date: 2020-11-03



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	172.15	44.55	-13.10	31.45	40.00	8.55	399	10	horizontal
2.	178.84	45.76	-13.65	32.11	40.00	7.89	385	24	horizontal
3.	203.26	48.94	-14.99	33.95	40.00	6.05	374	71	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

(Above 1 GHz) / V_ 1 GHz ~ 6 GHz

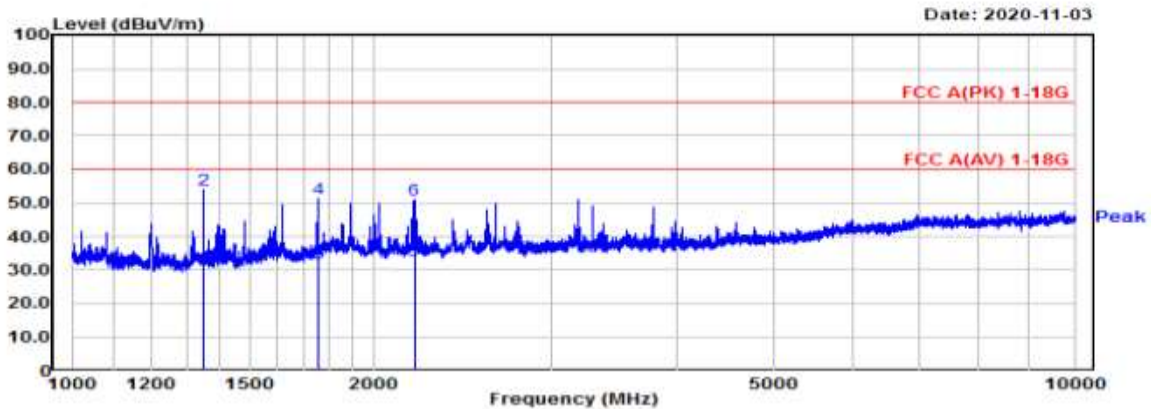
EUT/Model No. : XRN-1620B2

Temp/Humi: 21 °C / 43 % R.H.

Test Mode : REC mode

Tested by: NAM Y H

Power : 120 V / 60 Hz



(Above 1 GHz) / H_ 1 GHz ~ 6 GHz

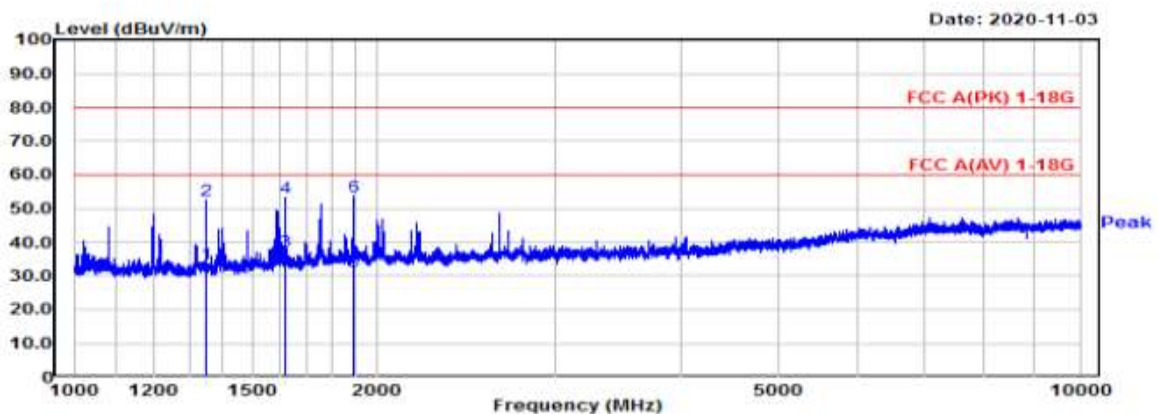
EUT/Model No. : XRN-1620B2

Temp/Humi: 21 °C / 43 % R.H.

Test Mode : REC mode

Tested by: NAM Y H

Power : 120 V / 60 Hz



Manufacture : HANWHA TECHWIN SECURITY VIETNAM CO.,LTD
D-TECH CO.,LTD.

Test Date

Temp.: [°C] Humidity: [%] Distance (m)

Model : XRN-1620B2

2020-11-03

21.00 43.00 3.8

TEST mode : REC mode

Frequency MHz	Reading(PK) dBuV	Reading(AV) dBuV	C.F dB	Result(PK) dBuV/m	Result(AV) dBuV/m	Limit(PK) dBuV/m	Limit(AV) dBuV/m	Margin(PK) dB	Margin(AV) dB	Height cm	Angle deg	Polarity H/V
1349.74	64.79	45.79	-10.16	54.63	35.63	80.00	60.00	25.37	24.37	100	142	H
1619.94	63.89	47.89	-8.66	55.23	39.23	80.00	60.00	24.77	20.77	100	166	H
1890.17	62.04	40.04	-6.55	55.49	33.49	80.00	60.00	24.51	26.51	100	155	H
1349.74	66.24	43.24	-10.16	56.08	33.08	80.00	60.00	23.92	26.92	100	118	V
1754.89	60.91	41.91	-7.61	53.30	34.30	80.00	60.00	26.70	25.70	100	130	V
2191.54	58.42	40.42	-5.55	52.87	34.87	80.00	60.00	27.13	25.13	100	352	V

Conclusions

Product models "**XRN-1620B2**" meets all of the Class A requirements of the FCC Part 15, Subpart B. Limits of radio disturbance characteristics of ITE).

(Refer to Test Specification and Test Results in the "LTA certification", page 4 and 5)

- The highest internal source of an EUT is higher than 108 MHz, the measurement shall be made up to 6 GHz.

(The highest internal source of an EUT : 1.8 GHz)

Photograph of the measurements

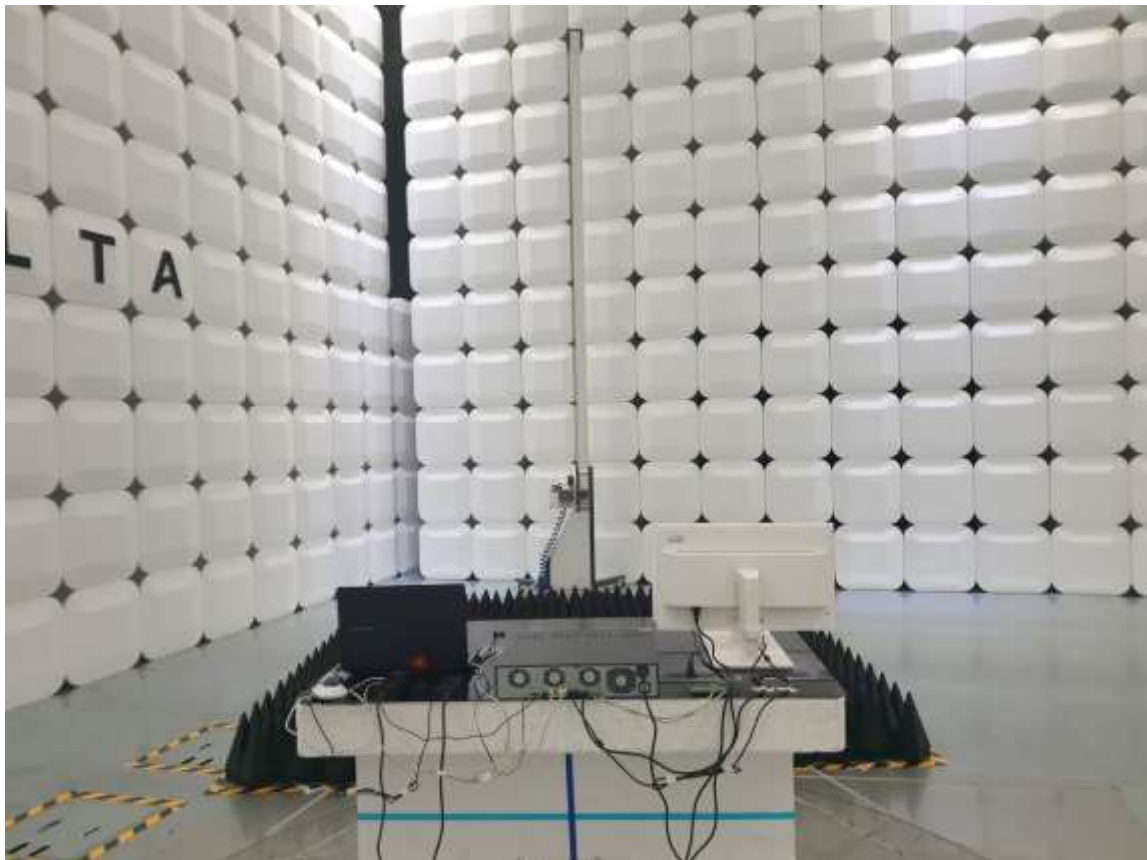
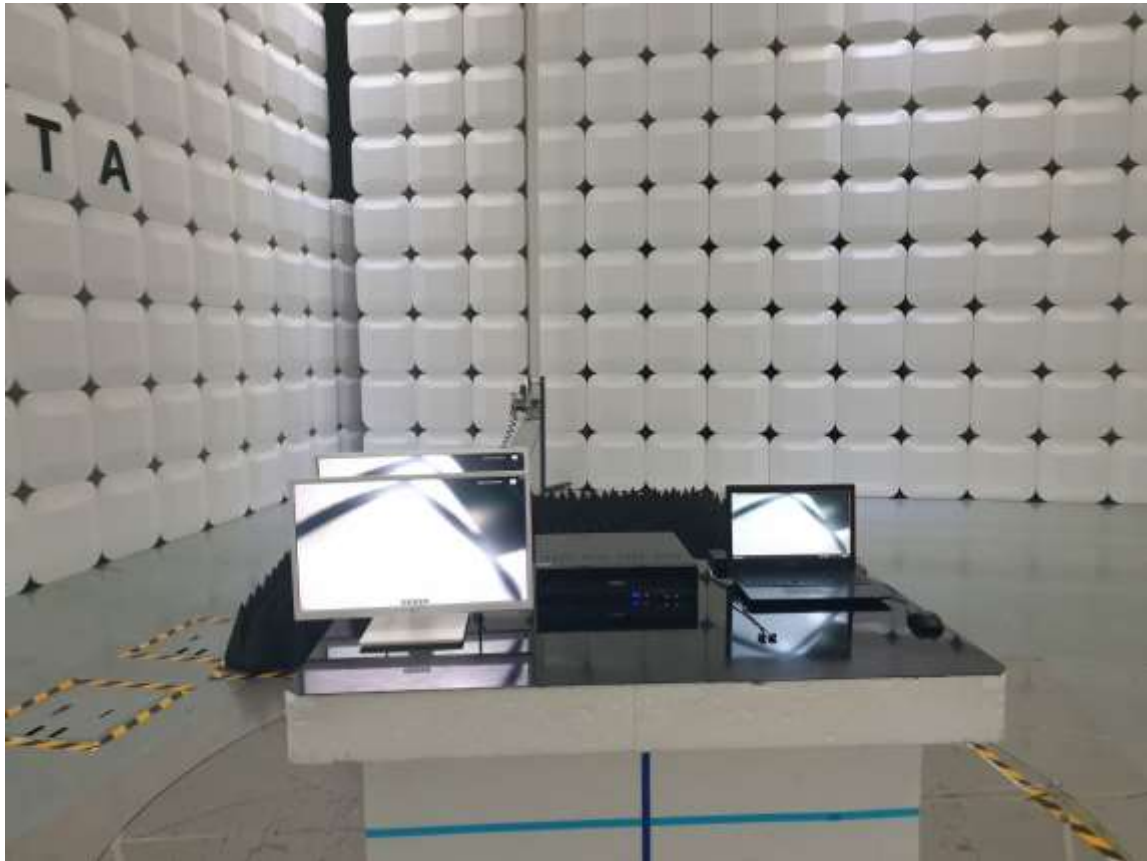
Conducted Emissions



Radiated Emissions (Below 1 GHz)



Radiated Emissions (Above 1 GHz)



Photograph of the EUT

EUT



EUT

