TEST REPORT

Applicant: DTEN Inc

Address: 97 E Brokaw Road suite 180 San Jose CA 95112

Product Name: DTEN D7X 75"

Model: DB71475, DB71475-S1

Standard(s): 47 CFR Part 15, Subpart C(15.249)

ANSI C63.10-2013

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR221153418-00

Date Of Issue: 2022/12/12

Reviewed By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Report No.: CR221153418-00

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "\(^{\text{a}}\)". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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CONTENTS

TEST FACILITY	2
DECLARATIONS	2
1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
1.2 DESCRIPTION OF TEST CONFIGURATION	5
1.2.2 Support Equipment List and Details	
1.2.3 Support Cable List and Details	5
1.2.4 Block Diagram of Test Setup	
1.4 MEASUREMENT UNCERTAINTY	
2. SUMMARY OF TEST RESULTS	
3. REQUIREMENTS AND TEST PROCEDURES	
3.1 AC LINE CONDUCTED EMISSIONS	
3.1.1 Applicable Standard	
3.1.3 EMI Test Receiver Setup	
3.1.4 Test Procedure	
3.1.5 Corrected Amplitude & Margin Calculation	
3.2.1 Applicable Standard	
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	
3.2.4 Test Procedure	
3.2.5 Corrected Amplitude & Margin Calculation	
3.3.1 Applicable Standard	
3.3.2 EUT Setup	
3.3.3Test Procedure	
3.4 ANTENNA REQUIREMENT	
3.4.1 Applicable Standard	
4. Test DATA AND RESULTS	
4.1 AC LINE CONDUCTED EMISSIONS	18
4.2 RADIATION SPURIOUS EMISSIONS	21
4.3 20 DB EMISSION BANDWIDTH:	29
5. RF EXPOSURE EVALUATION	30
5.1 APPLICABLE STANDARD	30
5.2 MEASUREMENT RESULT	30

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

DTEN D7X 75"
DB71475
DB71475-S1
24059-24239 MHz
FMCW
100-240V 50/60Hz
CR221153418-RF-S1
2022.11.15
Good

Report No.: CR221153418-00

Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.

Operation Frequency Detail:

Operation Frequency Detail.		
Sweep Start Frequency	Sweep Stop Frequency	
(MHz)	(MHz)	
24059	24239	
Per section 15.31(m), the below frequencies were performed the test as below:		
Test Frequency	Frequency (MHz)	
Lowest	24059	
Middle	24149	
Highest	24239	

Antenna Information Detail ▲:

Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement
Pach	50	2dBi/24~24.25GHz	Compliance
The Method of §15.203 Compliance:			
Antenna must be permanently attached to the unit.			
Antenna must use a unique type of connector to attach to the EUT.			
Unit must be professionally installed, and installer shall be responsible for verifying that the			
correct antenna is employed with the unit.			

Accessory Information:

No Accessory.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	DTENMotionSensor.exe

Report No.: CR221153418-00

The software was provided by manufacturer ▲. The maximum power was configured default setting.

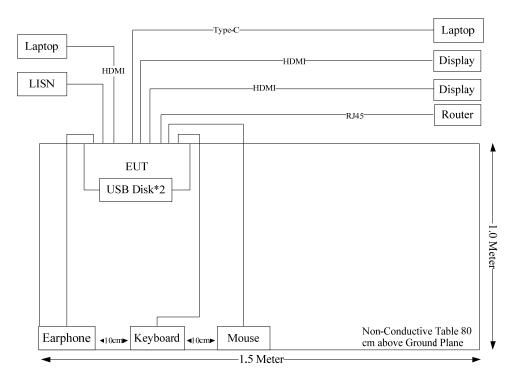
1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	G510	CB30920865
Lenovo	Laptop	E450	PF-OMRADG
TOTO LINK	Router	X5000R	X5000RK9T0560
PHILIPS	Mouse	SPK7214	M214BQ210411115
PHILIPS	Keyboard	SPT6234	K234210510746
CLC	Earphone	Blackview5.0	EP21103002
SANDisk	USB Flash Disk	16G	BL201026115B
SANDisk	USB Flash Disk	16G	BL201026331
PHILIPS	Display	24PFF5595/T3	XM2A2124000343
AOC	Display	24M2	OHWL5YA000130 H7

1.2.3 Support Cable List and Details

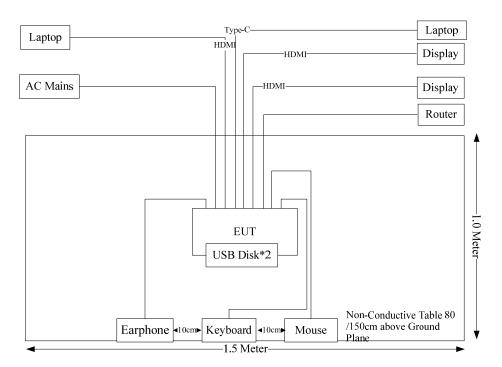
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
HDMI Cable	Yes	Yes	3	EUT	Laptop
USB Cable	Yes	No	2	EUT	Laptop
HDMI Cable*2	Yes	Yes	3	EUT	Display
Keyboard Cable	No	No	1.5	EUT	Keyboard
Mouse Cable	No	No	1.5	EUT	Mouse
RJ45 Cable	No	No	2	EUT	Router
Earphone Cable	No	No	1.2	EUT	Earphone

1.2.4 Block Diagram of Test Setup AC line conducted emissions:



Report No.: CR221153418-00

Spurious Emissions:



1.3 FAR Field Boundary Calculations

The far-field boundary is given in ANSI C63.10-2013:

$$R_{\rm m} = 2D^2 / \lambda$$

Where:

D is the largest dimension of the antenna aperture in m and

 λ is the free-space wavelength in m at the frequency of measurement.

The minimum test distance for the frequency range 40GHz-200GHz determine as below:

Model	Frequency Range (GHz)	Largest Dimension of the Horn Antenna (mm)	Minimum Test Distance R _m (m)
M19RH	40-60	46.3	0.57
861V/385	50-75	43.7	0.64
M12RH	60-90	30.02	0.36
M08RH	90-140	19.7	0.23

Report No.: CR221153418-00

Note: The test distances used were 1.0 m from 40 GHz to 90 GHz, and 0.5 m from 90 GHz to 100 GHz, it can be seen that the EUT was always in the Far-field of the Receive Antenna during all Radiated Emissions Tests.

1.4 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 Db 40~60G: 4.83dB, 60G~90G: 4.94dB, 90G-140G: 5.46dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
15.205, §15.209, §15.249	Radiated Emissions	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant
§1.1307	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

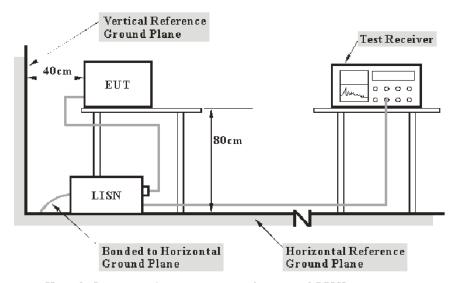
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu H/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
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.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: $1000~\mu V$ within the frequency band 535-1705~kHz, as measured using a $50~\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Report No.: CR221153418-00

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Report No.: CR221153418-00

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiated Emissions

3.2.1 Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Report No.: CR221153418-00

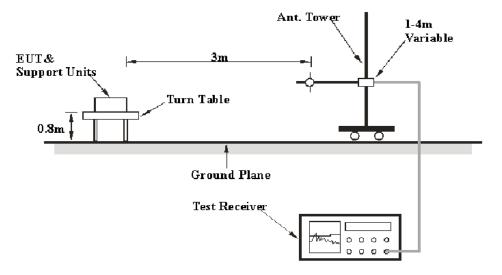
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

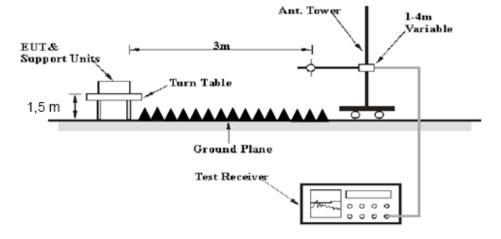
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

3.2.2 EUT Setup

Below 1GHz:

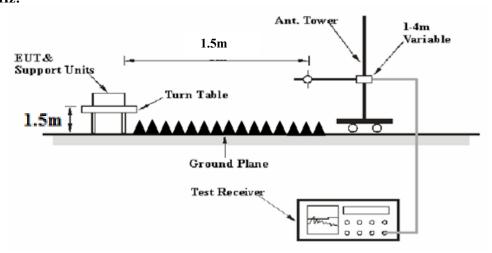


1-26.5 GHz:

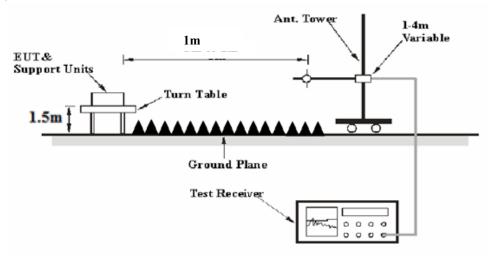


Report No.: CR221153418-00

26.5-40 GHz:

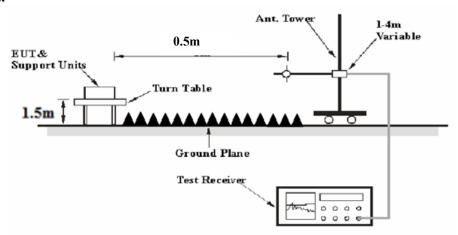


40-90 GHz:



Page 13 of 30

90-100 GHz:



Report No.: CR221153418-00

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.249 limits.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 100 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the

following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
A1 1 CH	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

According to C63.10, the 26.5-100GHz test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m, 1m or 0.5m

For 26.5-40GHz

Distance extrapolation factor =20 log (specific distance [3m]/test distance [1.5m]) dB=6.02dB

For 40-90GHz

Distance extrapolation factor =20 log (specific distance [3m]/test distance [1m]) dB=9.54dB

For 90-100GHz

Distance extrapolation factor =20 log (specific distance [3m]/test distance [0.5m]) dB=15.56dB

For above 40GHz, external harmonic mixers are utilized. The antenna is scanned around the entire perimeter surface of the EUT, in both horizontal and vertical polarizations. The Mixers and it's RF cables is compose a system for calibration, the conversion factor was added into the test Spectrum Analyzer in testing.

Report No.: CR221153418-00

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

For 30MHz-26.5GHz: Result = Reading + Factor

For 26.5GHz-100GHz

Result = Reading + Factor-Distance extrapolation Factor

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.3 20 dB Emission Bandwidth:

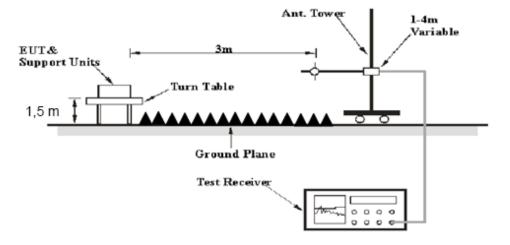
3.3.1 Applicable Standard

FCC §15.215

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Report No.: CR221153418-00

3.3.2 EUT Setup



3.3.3Test Procedure

- 1. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 2. Repeat above procedures until all frequencies measured were complete.

3.4 Antenna Requirement

3.4.1 Applicable Standard

FCC §15.203

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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

Report No.: CR221153418-00

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

3.4.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR221153418-RF-S1	Test Date:	2022/11/21
Test Site:	CE	Test Mode:	Transmitting(High channel was the worst)
Tester:	Vic Du	Test Result:	Pass

Report No.: CR221153418-00

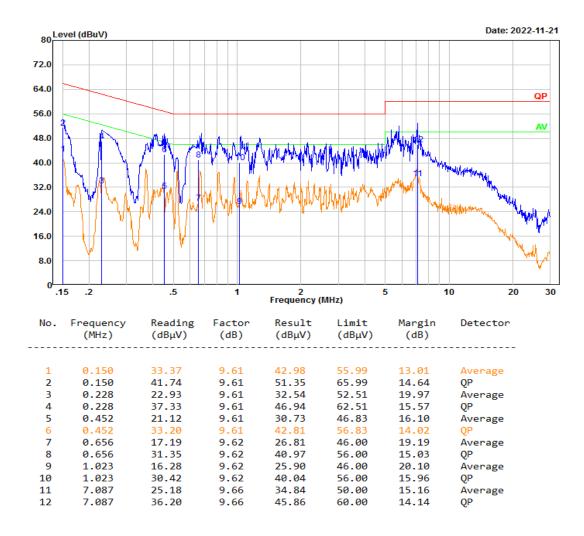
Environmental Conditions:							
Temperature: (°C)	24.9	Relative Humidity: (%)	71	ATM Pressure: (kPa)	101.2		

Test Equipment List and Details:

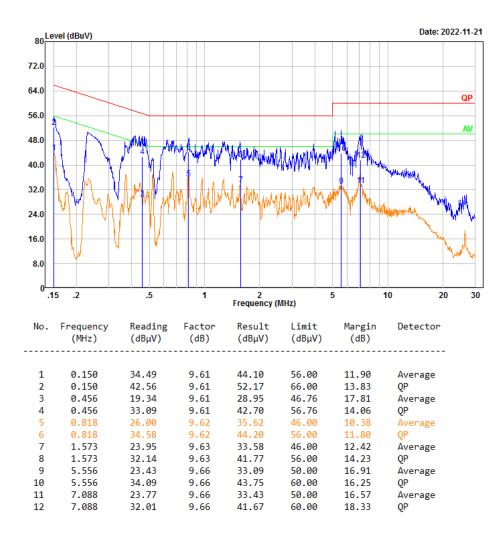
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022/04/01	2023/03/31
R&S	EMI Test Receiver	ESR3	102726	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022/08/07	2023/08/06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting
Port: Line
Note:



Test Mode: Transmitting
Port: neutral
Note:



4.2 Radiation Spurious Emissions

iii ittaaiation s	Surious Emissions		
Serial Number:	erial Number: CR221153418-RF-S1		2022/11/29~2022/11/30
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

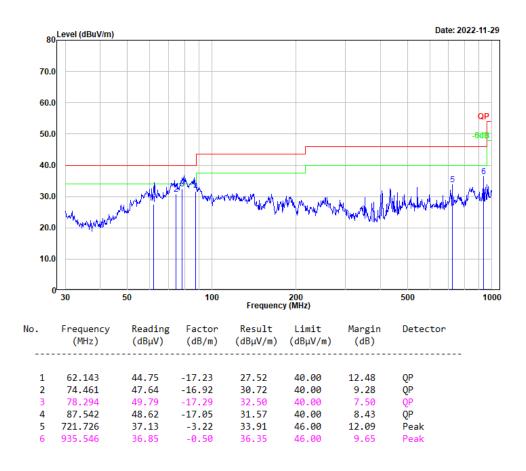
Environmental Conditions:								
Temperature: $(^{\circ}\mathbb{C})$	24.5~26.4	Relative Humidity: (%)	63~67	ATM Pressure: (kPa)	100.7~101.1			

Test Equipment List and Details:								
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18			
R&S	EMI Test Receiver	ESR3	102724	2022-07-15	2023-07-14			
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2022-07-17	2023-07-16			
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2022-07-17	2023-07-16			
Sonoma	Amplifier	310N	186165	2022-07-17	2023-07-16			
Audix	Test Software	E3	201021 (V9)	N/A	N/A			
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12			
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14			
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2022/08/07	2023/08/06			
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2022/08/07	2023/08/06			
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08			
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04			
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08			
MICRO-COAX	Coaxial Cable	UFB142A-1- 2362-200200	235772-001	2022/08/07	2023/08/06			
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04			
OML	Harmonic Mixer	WR19/M19HWD	U60314-1	2020/10/16	2023/10/15			
OML	Horn Antenna	M19RH	11648-03	2020/10/16	2023/10/15			
OML	Harmonic Mixer	WR12/M12HWD	E60119-1	2020/10/17	2023/10/16			
OML	Horn Antenna	M12RH	E60119-2	2020/10/18	2023/10/17			
OML	Harmonic Mixer	WR08/M08HWD	F60315-1	2020/10/22	2023/10/21			
OML	Horn Antenna	M08RH	F60315-2	2020/10/24	2023/10/23			

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

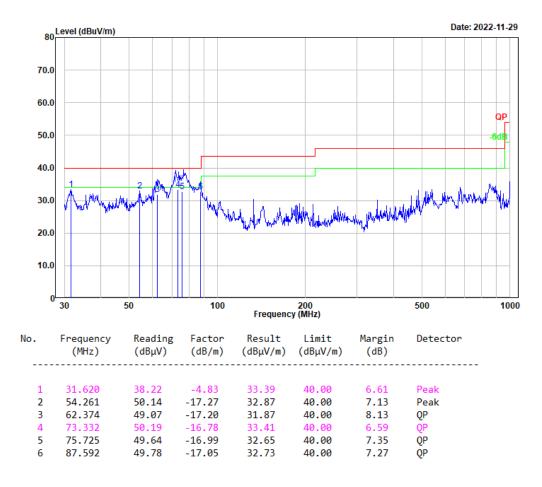
1) 30MHz-1GHz(High channel was the worst):

Test Mode: Transmitting Polarization: horizontal Note:



Vertical:

Test Mode: Transmitting Polarization: vertical Note:



2) 1GHz-40GHz:

<u>) 1GHz-40GH</u>	Receiver						
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			Low Chan	nel: 24059 MH	İz		
24059.000	92.31	PK	Н	5.59	97.90	127.96	30.06
24059.000	91.34	AV	Н	5.59	96.93	107.96	11.03
24059.000	76.13	PK	V	5.59	81.72	127.96	46.24
24059.000	74.13	AV	V	5.59	79.72	107.96	28.24
24000.000	50.57	PK	Н	5.52	56.09	74.00	17.91
24000.000	37.82	AV	Н	5.52	43.34	54.00	10.66
2938.40	60.85	PK	V	5.78	66.63	74.00	7.37
2938.40	47.43	AV	V	5.78	53.21	54.00	0.79
22912.30	51.77	PK	V	6.22	57.99	74.00	16.01
22912.30	38.39	AV	V	6.22	44.61	54.00	9.39
		N	Aiddle Cha	nnel: 24149 M	Hz		
24149.000	93.20	PK	Н	5.69	98.89	127.96	29.07
24149.000	92.32	AV	Н	5.69	98.01	107.96	9.95
24149.000	76.16	PK	V	5.69	81.85	127.96	46.11
24149.000	74.36	AV	V	5.69	80.05	107.96	27.91
2938.40	60.77	PK	V	5.78	66.55	74.00	7.45
2938.40	47.39	AV	V	5.78	53.17	54.00	0.83
20057.40	51.86	PK	V	5.46	57.32	74.00	16.68
20057.40	38.43	AV	V	5.46	43.89	54.00	10.11
			High Char	nel: 24239 MF	łz		
24239.000	93.56	PK	Н	5.79	99.35	127.96	28.61
24239.000	92.69	AV	Н	5.79	98.48	107.96	9.48
24239.000	77.35	PK	V	5.79	83.14	127.96	44.82
24239.000	75.28	AV	V	5.79	81.07	107.96	26.89
24250.000	60.09	PK	Н	5.80	65.89	74.00	8.11
24250.000	47.55	AV	Н	5.80	53.35	54.00	0.65
2999.60	59.88	PK	V	6.10	65.98	74.00	8.02
2999.60	46.44	AV	V	6.10	52.54	54.00	1.46
19622.00	50.61	PK	V	5.47	56.08	74.00	17.92
19622.00	37.30	AV	V	5.47	42.77	54.00	11.23

Report No.: CR221153418-00

Result = Reading + Factor- Distance extrapolation Factor

For 1-26.5GHz:

Distance extrapolation Factor = $20 \log$ (specific distance [3m]/test distance [3m]) dB = 0 dB For 26.5-40GHz:

 $Distance\ extrapolation\ Factor=20\ log\ (specific\ distance\ [3m]/test\ distance\ [1.5m])\ dB=6.02\ dB$

Receiver			Dalam	Easter	D14	Limit	Massis
Frequency (GHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	(dBµV/m)	Margin (dB)
	(25)		Low Chan	nel: 24.059 GI	Iz		
48.118	46.52	PK	Н	40.06	77.04	87.96	10.92
48.118	33.26	AV	Н	40.06	63.78	67.96	4.18
48.118	47.16	PK	V	40.06	77.68	87.96	10.28
48.118	34.08	AV	V	40.06	64.60	67.96	3.36
72.177	43.76	PK	Н	43.81	78.03	87.96	9.93
72.177	30.38	AV	Н	43.81	64.65	67.96	3.31
72.177	42.07	PK	V	43.81	76.34	87.96	11.62
72.177	29.04	AV	V	43.81	63.31	67.96	4.65
96.236	42.10	PK	Н	45.88	72.42	87.96	15.54
96.236	30.05	AV	Н	45.88	60.37	67.96	7.59
96.236	43.23	PK	V	45.88	73.55	87.96	14.41
96.236	30.12	AV	V	45.88	60.44	67.96	7.52
		N	Middle Cha	nnel: 24.149 C	Hz		
48.298	47.05	PK	Н	40.08	77.59	87.96	10.37
48.298	34.03	AV	Н	40.08	64.57	67.96	3.39
48.298	47.63	PK	V	40.08	78.17	87.96	9.79
48.298	34.32	AV	V	40.08	64.86	67.96	3.10
72.447	44.14	PK	Н	43.85	78.45	87.96	9.51
72.447	31.07	AV	Н	43.85	65.38	67.96	2.58
72.447	44.51	PK	V	43.85	78.82	87.96	9.14
72.447	31.26	AV	V	43.85	65.57	67.96	2.39
96.596	44.41	PK	Н	45.92	74.77	87.96	13.19
96.596	32.20	AV	Н	45.92	62.56	67.96	5.40
96.596	45.29	PK	V	45.92	75.65	87.96	12.31
96.596	33.15	AV	V	45.92	63.51	67.96	4.45
				nel: 24.239 Gl			
48.478	46.53	PK	Н	40.11	77.10	87.96	10.86
48.478	33.27	AV	Н	40.11	63.84	67.96	4.12
48.478	47.01	PK	V	40.11	77.58	87.96	10.38
48.478	34.02	AV	V	40.11	64.59	67.96	3.37
72.717	44.56	PK	Н	43.89	78.91	87.96	9.05
72.717	31.28	AV	H	43.89	65.63	67.96	2.33
72.717	43.63	PK	V	43.89	77.98	87.96	9.98
72.717	30.32	AV	V	43.89	64.67	67.96	3.29
96.956	41.06	PK	Н	45.97	71.47	87.96	16.49
96.956	28.03	AV	H	45.97	58.44	67.96	9.52
96.956	42.17	PK	V	45.97	72.58	87.96	15.38
96.956	29.09	AV	V	45.97	59.50	67.96	8.46

Report No.: CR221153418-00

Note:

 $Factor = Antenna\ Factor$

 $Field \ Strength = Reading + Factor + 20log(d_{Meas}/d_{SpecLimit})$

 d_{Meas} is the measurement distance, in m

 $d_{SpecLimit}$ is the distance specified by the limit, in m

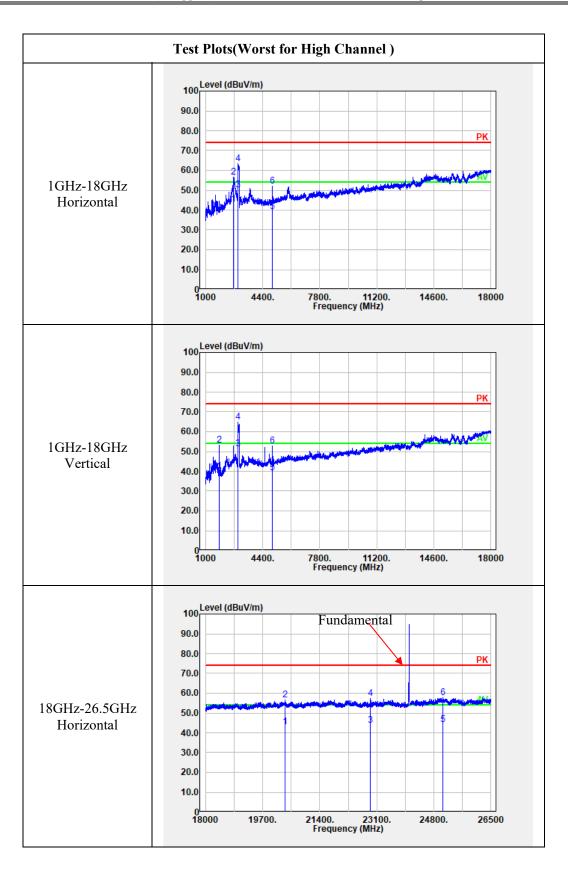
$$PD = \frac{E_{SpecLimit}^2}{377}$$

where

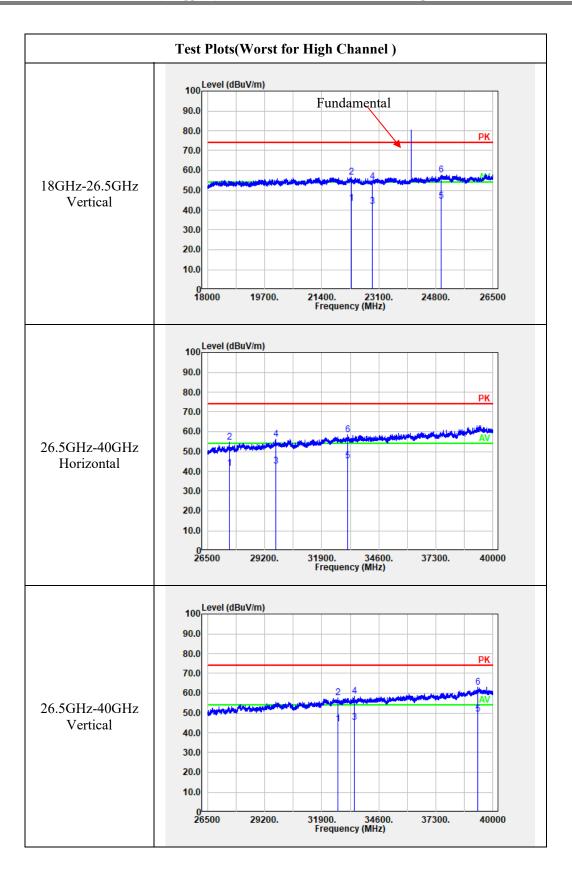
PD is the power density at the distance specified by the limit, in $\rm W/m^2$ is the field strength at the distance specified by the limit, in $\rm V/m$

Report No.: CR221153418-00

The Specified distance is 3m.



Page 27 of 30



Page 28 of 30

4.3 20 dB Emission Bandwidth:

Serial Number:	CR221153418-RF-S1	Test Date:	2022/11/30
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

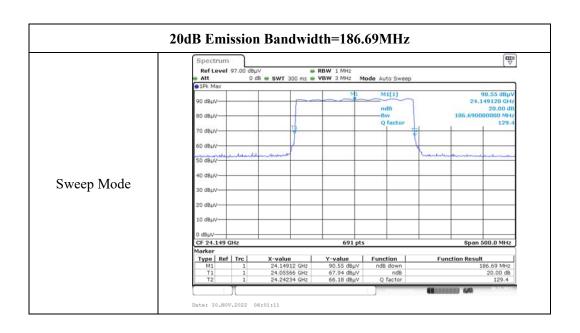
Report No.: CR221153418-00

Environmental	Conditions:				
Temperature: $(^{\circ}\mathbb{C})$	24.5	Relative Humidity: (%)	67	ATM Pressure: (kPa)	101.1

Test Equipment List and Details:

Test Equipment Eist and Details.									
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date				
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14				
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04				
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08				
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2022/08/07	2023/08/06				

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Report No.: CR221153418-00

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)		
0.3-1.34	$1,920 \text{ R}^2.$		
1.34-30	$3,450 \text{ R}^2/\text{f}^2.$		
30-300	$[3.83 \text{ R}^2.$		
300-1,500	$0.0128 \text{ R}^2\text{f}.$		
1,500-100,000	19.2R ² .		

5.2 Measurement Result

Frequency	λ/2Π	Distance	Exemption ERP		Maximum ERP Power	MPE-Based
(MHz)	(mm)	(mm)	(mW)	(dBm)	(dBm)	Exemption
24059-24239	1.98	200	768	28.85	2	Compliant

Note:

- 1. Chose the maximum power to do MPE analysis.
- 2. This device maximum E-Field level is 99.35 dBμV/m at 3m, so the EIRP power is 4.15dBm.
- 3. Pout EIRP(dBm)=Field Strength of Fundamental(dBuV/m)-95.2

Result: The device compliant the MPE-Based Exemption at 20cm distances.

===== END OF REPORT =====