

Global United Technology Services Co., Ltd.

Report No.: GTS202112000090F02

TEST REPORT

Shenzhen Dangs Science and Technology Co., Ltd **Applicant:**

Address of Applicant: 901, GDC Building, Keji Mid 3rd Road, Maling Community,

Yuehai Sub-district, Nanshan, Shenzhen, China 518057

Shenzhen Dangs Science and Technology Co., Ltd Manufacturer:

Address of 901,GDC Building,Keji Mid 3rd Road, Maling Community, Yuehai Sub-district, Nanshan, Shenzhen, China 518057

Manufacturer:

LENOVO(HUIYANG)ELECTRONIC INDUSTRIAL CO.,LTD **Factory:**

Address of Factory: LENOVO SCIENCE & TECHNOLOGY PARK, HUIYANG

ECONOMIC DEVELOPMENT ZONE, HUIZHOU,

GUANGDONG, CHINA

Equipment Under Test (EUT)

Product Name: Smart Projector

DBX3 Pro, DBX********, for internal coding and trading Model No.:

purpose, "******" in model can respectively be 0-9, A-Z, +, -,

/, () or blank.

FCC ID: 2AV2J-DBX3PRO

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: December 13, 2021

Date of Test: December 14-22, 2021

Date of report issued: December 23, 2021

PASS * Test Result:

Authorized Signature:

Robinson Luo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	December 23, 2021	Original
assem the second	Address of the second	TARRELL HARRY

Prepared By:	Project Engineer	Date:	December 23, 2021
Check By:	Reviewer	Date:	December 23, 2021



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.

2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes		
Radiated Emission	9kHz-30MHz	3.1dB	(1)		
Radiated Emission	30MHz-200MHz	3.8039dB	(1)		
Radiated Emission	200MHz-1GHz	3.9679dB	(1)		
Radiated Emission	1GHz-18GHz	4.29dB	(1)		
Radiated Emission	18GHz-40GHz	3.30dB	(1)		
AC Power Line Conducted 0.15MHz ~ 30MHz 3.44dB (1)					
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.		



5 General Information

5.1 General Description of EUT

Product Name:	Smart Projector
Model No.:	DBX3 Pro, DBX*******, for internal coding and trading purpose, "******" in model can respectively be 0-9, A-Z, +, -, /, () or blank.
Test Model No.:	DBX3 Pro
Remark:All above models are	identical in the same PCB layout, interior structure and electrical circuits.
The only difference is model no	ame for commercial purpose.
Test sample(s) ID:	GTS202112000090-1
Sample(s) Status:	Engineer sample
S/N:	DZLX3P4213800169
Hardware Version:	LU2_MB_V11
Software Version:	2.2.4.0
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	5.8dBi
Power Supply:	ADAPTER
	MODEL: HKA180180A0-6B
	INPUT: AC 100-240V, 60/50Hz 2.5A
	OUTPUT: DC 18.0V/10A, 180W



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. New battery is used during all test.

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC —Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

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6 Test Instruments list

Radi	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025			
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A			
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 24 2021	June. 23 2022			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022			
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022			
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022			
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022			
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022			
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022			
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022			
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022			
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022			
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022			
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022			
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022			
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022			
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022			
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022			
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022			
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022			
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022			



Cond	Conducted Emission							
Item	Test Equipment	Manufacturer	Manufacturer Model No.		Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022		
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	OHDE&SCHWARZ ENV216	GTS226	June. 24 2021	June. 23 2022		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 24 2021	June. 23 2022		
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022		
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 24 2021	June. 23 2022		

RF C	Conducted Test:								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 24 2021	June. 23 2022			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022			
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022			
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022			

Gene	General used equipment:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022					
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022					



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 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, 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antennas are integral antenna, the best case gain of the antennas are 5.8dBi, reference to the appendix II for details



7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.1	0:2013						
Test Frequency Range:	150KHz to 3	30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto							
Limit:	Fraguer	ov rongo (ML	1=/	Limit	(dBuV)	8		
		cy range (MF	QL	ıasi-peak	Aver			
	C	0.15-0.5	6	66 to 56*	56 to			
	0.5-5 56 46 5-30 60 50							
	5-30 60 * Decreases with the logarithm of the frequency.							
Test setup:	Decreases	Reference		rrequency.				
Took was as divised	AUX Equipment E.U.T EMI Receiver Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m							
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar							
Test results:	Pass							
TOTAL TOTAL								

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

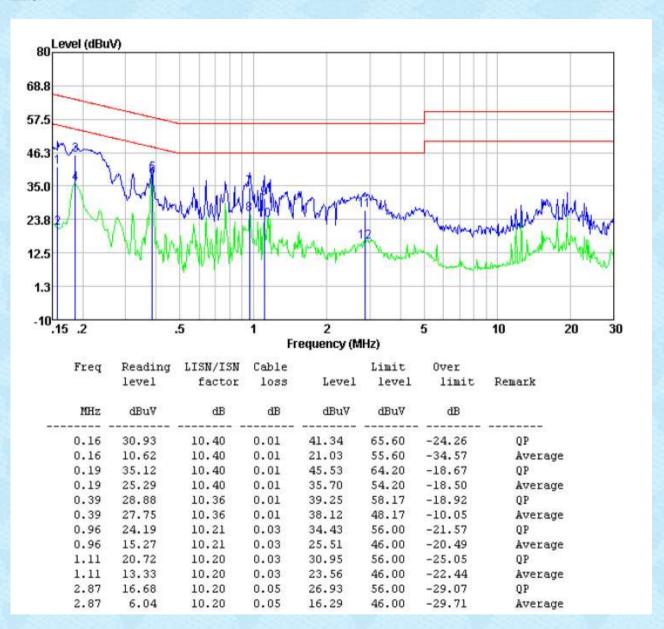
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Measurement data

Report No.: GTS202112000090F02

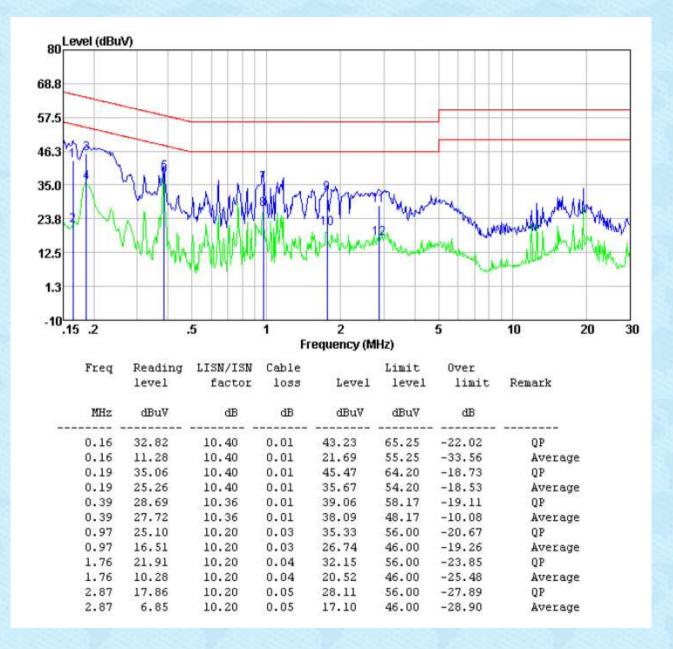
Line:



GTS

Neutral:

Report No.: GTS202112000090F02



Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss

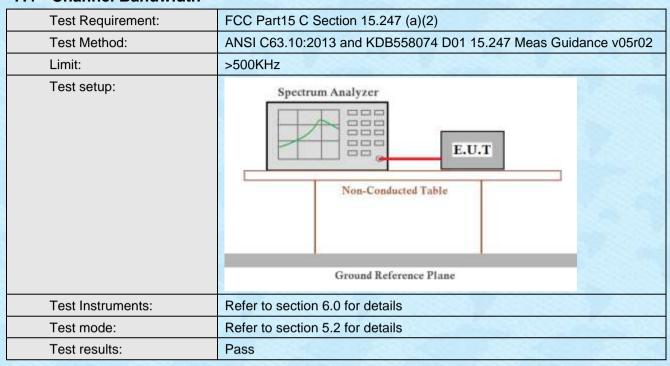


7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02						
Limit:	30dBm						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						



7.4 Channel Bandwidth





7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02							
Limit:	3dBm/3kHz							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							



7.6 Spurious Emission in Non-restricted & restricted Bands

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02						
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, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

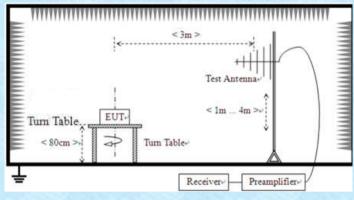


7.6.2 Radiated Emission Method

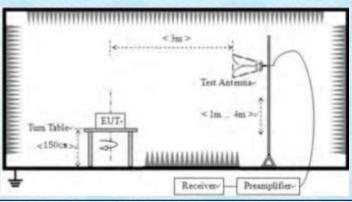
7.6.2 Radiated Emission Wei	illou							
Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013	100						
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: 3r	m				4.3455.44	
Receiver setup:	Frequency	De	Detector		٧	VBW	Value	
	9KHz-150KHz	Qua	asi-peak	200H	lz	600Hz	z Quasi-peak	
	150KHz-30MHz	150KHz-30MHz Quasi-		9KH	z	30KHz	z Quasi-peak	
	30MHz-1GHz	30MHz-1GHz Quasi-peak 1.		120KI	Hz	300KH	Iz Quasi-peak	
	Above 1GHz	F	Peak	1MH	lz	3MHz	z Peak	
	Above 1G112	Peak		1MH	Hz 10Hz		Average	
Limit:	Frequency	Frequency Limit (u)				lue	Measurement Distance	
	0.009MHz-0.490M	1Hz	2400/F(K	(Hz)	Q	(P	300m	
	0.490MHz-1.705M	1Hz	24000/F(I	000/F(KHz)		P)P	30m	
	1.705MHz-30MH	1.705MHz-30MHz			Q	P)P	30m	
	30MHz-88MHz	30MHz-88MHz				(P		
	88MHz-216MHz	Z	150	4.44	Q	(P		
	216MHz-960MH	z	200		QP		3m	
	960MHz-1GHz		500			(P	OIII	
	Above 1GHz		500		Average			
	7,0000 10112		5000	5000 I		Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz Test Antenna Turn Table Receiver-							



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



	Report No.: GTS202112000090F02							
Test Instruments:	Refer to se	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details							
Test environment:	Test environment: Temp.: 25 °C Humid.:			52%	Press.:	1012mbar		
Test results: Pass								

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

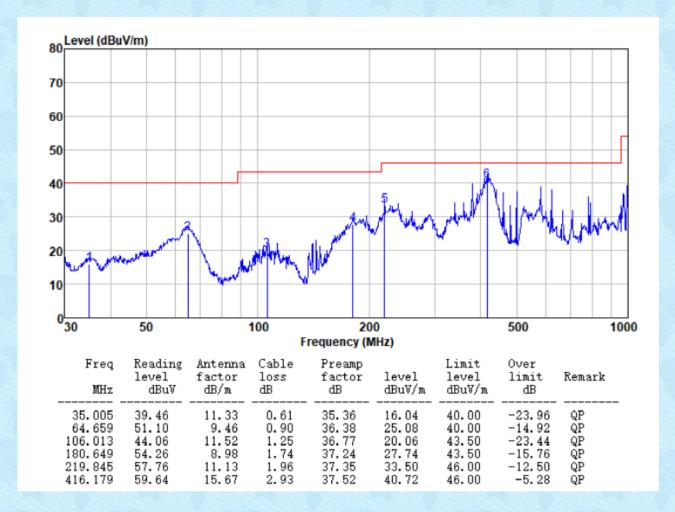
■ 9kHz~30MHz

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



■ Below 1GHz

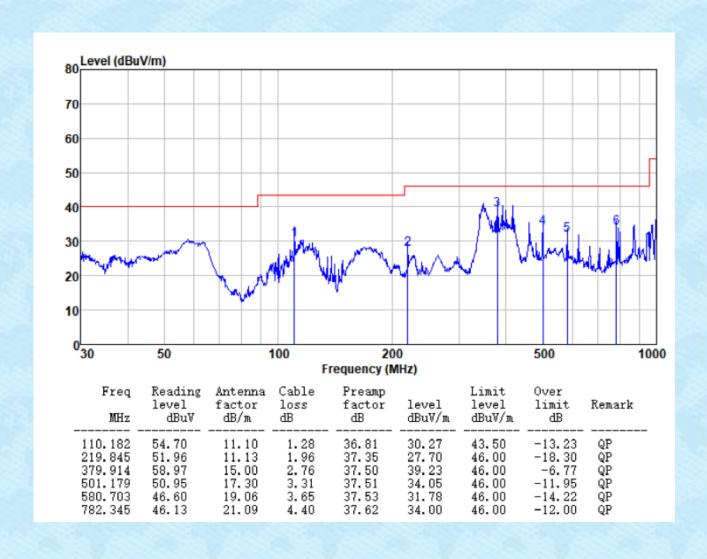
Pre-scan all test modes, found worst case at 2440MHz, and so only show the test result of 2440MHz **Horizontal:**





Vertical:

Report No.: GTS202112000090F02





■ Above 1GHz

■ Unwanted Emissions in Restricted Frequency Bands

Onwanted Emissions in Restricted Frequency Bands										
Test channe	l:			Lowest ch	nannel					
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4804.00	34.26	31.78	8.60	32.09	42.55	74.00	-31.45	Vertical		
7206.00	29.81	36.15	11.65	32.00	45.61	74.00	-28.39	Vertical		
9608.00	29.67	37.95	14.14	31.62	50.14	74.00	-23.86	Vertical		
4804.00	37.92	31.78	8.60	32.09	46.21	74.00	-27.79	Horizontal		
7206.00	31.30	36.15	11.65	32.00	47.10	74.00	-26.90	Horizontal		
9608.00	28.81	37.95	14.14	31.62	49.28	74.00	-24.72	Horizontal		
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4804.00	23.65	31.78	8.60	32.09	31.94	54.00	-22.06	Vertical		
7206.00	18.84	36.15	11.65	32.00	34.64	54.00	-19.36	Vertical		
9608.00	18.11	37.95	14.14	31.62	38.58	54.00	-15.42	Vertical		
4804.00	27.54	31.78	8.60	32.09	35.83	54.00	-18.17	Horizontal		
7206.00	20.81	36.15	11.65	32.00	36.61	54.00	-17.39	Horizontal		
9608.00	17.59	37.95	14.14	31.62	38.06	54.00	-15.94	Horizontal		

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Test channe	l:			Middle ch	annel						
Peak value:											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4880.00	34.05	31.85	8.67	32.12	42.45	74.00	-31.55	Vertical			
7320.00	29.67	36.37	11.72	31.89	45.87	74.00	-28.13	Vertical			
9760.00	29.55	38.35	14.25	31.62	50.53	74.00	-23.47	Vertical			
4880.00	37.67	31.85	8.67	32.12	46.07	74.00	-27.93	Horizontal			
7320.00	31.14	36.37	11.72	31.89	47.34	74.00	-26.66	Horizontal			
9760.00	28.66	38.35	14.25	31.62	49.64	74.00	-24.36	Horizontal			
Average val	ue:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4880.00	23.48	31.85	8.67	32.12	31.88	54.00	-22.12	Vertical			
7320.00	18.73	36.37	11.72	31.89	34.93	54.00	-19.07	Vertical			
9760.00	18.01	38.35	14.25	31.62	38.99	54.00	-15.01	Vertical			
4880.00	27.35	31.85	8.67	32.12	35.75	54.00	-18.25	Horizontal			
7320.00	20.68	36.37	11.72	31.89	36.88	54.00	-17.12	Horizontal			
9760.00	17 47	38 35	14 25	31 62	38 45	54 00	-15 55	Horizontal			



Test channel	<u></u>			Highest c	hannel				
Peak value:			1000						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	34.08	31.93	8.73	32.16	42.58	74.00	-31.42	Vertical	
7440.00	29.69	36.59	11.79	31.78	46.29	74.00	-27.71	Vertical	
9920.00	29.56	38.81	14.38	31.88	50.87	74.00	-23.13	Vertical	
4960.00	37.71	31.93	8.73	32.16	46.21	74.00	-27.79	Horizontal	
7440.00	31.16	36.59	11.79	31.78	47.76	74.00	-26.24	Horizontal	
9920.00	28.68	38.81	14.38	31.88	49.99	74.00	-24.01	Horizontal	
Average val	ue:		77333						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	23.49	31.93	8.73	32.16	31.99	54.00	-22.01	Vertical	
7440.00	18.73	36.59	11.79	31.78	35.33	54.00	-18.67	Vertical	
9920.00	18.01	38.81	14.38	31.88	39.32	54.00	-14.68	Vertical	
4960.00	27.36	31.93	8.73	32.16	35.86	54.00	-18.14	Horizontal	
7440.00	20.69	36.59	11.79	31.78	37.29	54.00	-16.71	Horizontal	
9920.00	17.47	38.81	14.38	31.88	38.78	54.00	-15.22	Horizontal	

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



■ Unwanted Emissions in Non-restricted Frequency Bands

Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	42.37	27.91	5.30	24.64	50.94	74.00	-23.06	Horizontal
2390.00	46.08	27.59	5.38	24.71	54.34	74.00	-19.66	Horizontal
2310.00	42.87	27.91	5.30	24.64	51.44	74.00	-22.56	Vertical
2390.00	47.07	27.59	5.38	24.71	55.33	74.00	-18.67	Vertical

Lowest channel

Average value:

Test channel:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
2310.00	33.03	27.91	5.30	24.64	41.60	54.00	-12.40	Horizontal			
2390.00	34.24	27.59	5.38	24.71	42.50	54.00	-11.50	Horizontal			
2310.00	32.94	27.91	5.30	24.64	41.51	54.00	-12.49	Vertical			
2390.00	34.84	27.59	5.38	24.71	43.10	54.00	-10.90	Vertical			

	Test channel:	Highest channel				
4	1 CSt Griatifici.	riigilest chaille				

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	44.41	27.53	5.47	24.80	52.61	74.00	-21.39	Horizontal
2500.00	43.68	27.55	5.49	24.86	51.86	74.00	-22.14	Horizontal
2483.50	45.17	27.53	5.47	24.80	53.37	74.00	-20.63	Vertical
2500.00	44.63	27.55	5.49	24.86	52.81	74.00	-21.19	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.86	27.53	5.47	24.80	42.06	54.00	-11.94	Horizontal
2500.00	33.93	27.55	5.49	24.86	42.11	54.00	-11.89	Horizontal
2483.50	34.69	27.53	5.47	24.80	42.89	54.00	-11.11	Vertical
2500.00	33.81	27.55	5.49	24.86	41.99	54.00	-12.01	Vertical

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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