

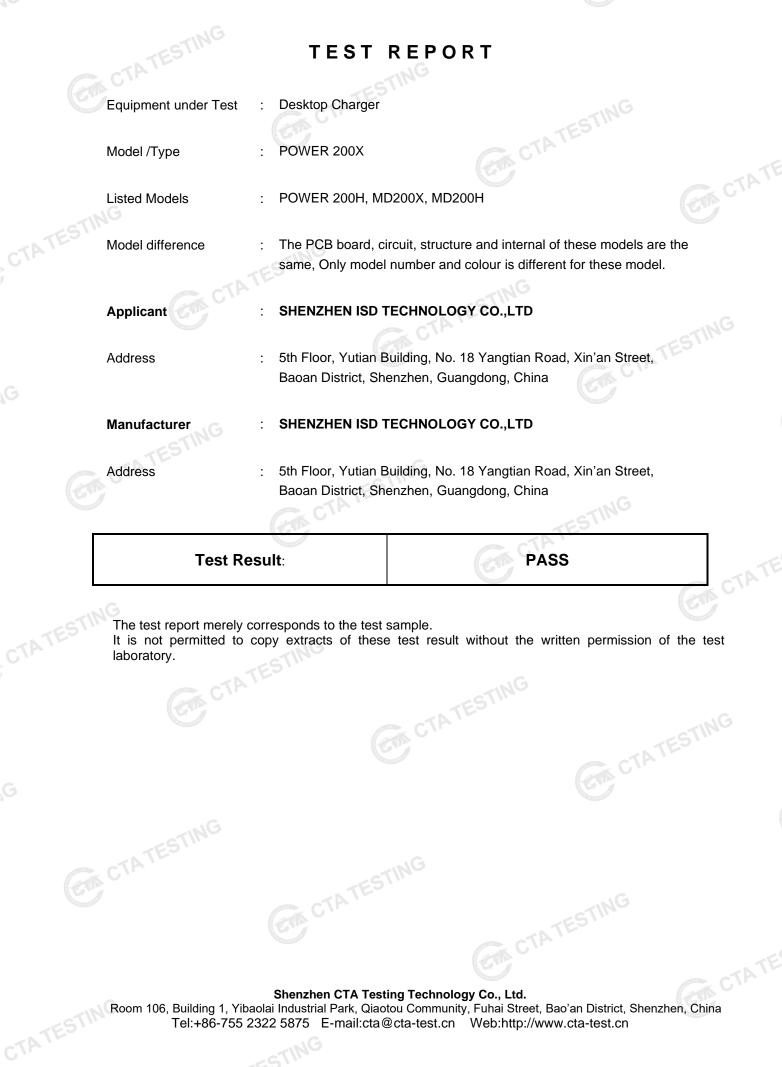
Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

	15 SUBPART C TEST REPORT
Report Reference No	CTA25022100902 2A3R7-POWER200X
Compiled by	ZAJRI-FOWER200A
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Date of issue	Mar. 06, 2025
Testing Laboratory Name:	Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name:	SHENZHEN ISD TECHNOLOGY CO.,LTD
	5th Floor, Yutian Building, No. 18 Yangtian Road, Xin'an Street,
Address	Baoan District, Shenzhen, Guangdong, China
Test specification	
Standard:	FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013
ESTINO	ANSI C63.10: 2013
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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn



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TEST STANDARDS 1

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart C (Section 15.207): Conducted limits. FCC Rules and Regulations Part 15 Subpart C (Section 15.209): Radiated emission limits; general requirements. ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

SUMMARY 2

2.1 General Remarks

CTATES		
2.1 General Remarks		TATESI
Date of receipt of test sample	2.20	Feb. 21, 2025
Testing commenced on		Feb. 21, 2025
Testing concluded on	:	Mar. 06, 2025

2.2 Product Description

Testing concluded on i Mar. 06, 2025 Jesting concluded on Product Description Product Name: Desktop Charger Model/Type reference: POWER 200X Hardware version: V1.0 Software version: V1.0 Software version: V1.0 Test samples ID: CTA250221009-1# (Engineer sample) CTA250221009-2# (Normal sample) Power supply: USB-A Output: DC 5V-12V 2A 24W(Max) USB-C1, USB-C2 Output: DC 5V-20V 3.25A 65W(Max) USB-C3 Output: DC 5V-20V 3.25A 65W(Max)				
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Product Name:Desktop ChargerModel/Type reference:POWER 200XHardware version:V1.0Software version:V1.0Test samples ID:CTA250221009-1# (Engineer sample) CTA250221009-2# (Normal sample)Power supply:Input: AC 100-240V, 50/60Hz USB-A Output: DC 5V-12V 2A 24W(Max) USB-C1, USB-C2 Output: DC 5V-20V 3.25A 65W(Max) USB-C3, Output: DC 5V-20V 3.25A 6		Testing concluded on :	: M	Mar. 06, 2025
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Test samples ID:CTA250221009-2# (Normal sample)Input: AC 100-240V, 50/60HzInput: AC 100-240V, 50/60HzUSB-A Output: DC 5V-12V 2A 24W(Max)USB-C1, USB-C2 Output: DC 5V-20V 3.25A 65W(Max)USB-C3 Output: DC 5V-28V 5A 140W(Max)Total output power: 200WWireless charging: 15W (Max)Operation frequency:110KHz - 205KHzModulation type:ASKAntenna type:Loop coil antennaANT Gain:OdBi		Software version:		V1.0 CTAT
Input. AC 100-240V, Solon 2USB-A Output: DC 5V-12V 2A 24W(Max)USB-C1, USB-C2 Output: DC 5V-20V 3.25A 65W(Max)USB-C3 Output: DC 5V-28V 5A 140W(Max)Total output power: 200WWireless charging: 15W (Max)Operation frequency:110KHz - 205KHzModulation type:ASKAntenna type:Loop coil antennaANT Gain:0dBi		Test samples ID:		
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ANT Gain: 0dBi		Modulation type:	a constants	ASK
TATESTING		Antenna type:		Loop coil antenna
		ANT Gain:		0dBi
	TATE	STING	TIN	NG
				CTATES.

Description of the test mode 2.3

Equipment under test was operated during the measurement under the following conditions: Charging and communication mode

Test Mod	les:				
Mode 1	Wireless Charging	CTA	Recorded		
Mode 2	Standby	(ST)	Pre-tested		
Note: All	test modes were pre-tested, but we only record	ded the worst case in this re	port.	(CAN)	
24 6	nacial Accessories			Concerned and	

2.4 **Special Accessories**

Follow auxiliary equipment(s) test with EUT that provided by the laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
Intelligent wireless charging full function test module	/	/	CTA IL	GACT	ATESTING
/	/	/	/		/
/	- NC	/	/	/	/

2.5 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

Address of the test laboratory 3.1

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges: Radiated Emission

24 ° C
45 %
6.
950-1050mbar

AC Power Conducted Emission:

Temperature:	25 ° C
INO	
Humidity:	46 %
TIN	2
Atmospheric pressure:	950-1050mbar

Atmospheric pressure:	950-1050mbar
Conducted testing:	ESTING
Temperature:	25 ° C
	G
Humidity:	44 %
	and a second
Atmospheric pressure:	950-1050mbar

3.4 Summary of measurement results

Description of test	Result
Conducted emissions test	Compliant
Radiated emission test	Compliant
The 20dB bandwidth measurement	Compliant
Antenna requirement	Compliant

Statement of the measurement uncertainty 3.5

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

		C \ \ \					
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date		
LISN	R&S	ENV216	CTA-308	2024/08/03	2025/08/02		
LISN	R&S	ENV216	CTA-314	2024/08/03	2025/08/02		
EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02		
EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/03	2025/08/02		
Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/03	2025/08/02		
Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02		
Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/03	2025/08/02		
Analog Signal Generator	R&S	SML03	CTA-304	2024/08/03	2025/08/02		
WIDEBAND RADIO COMMUNICATION	CMW500	R&S	CTA-302	2024/08/03	2025/08/02		

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TESTER	G				
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2024/08/03	2025/08/02
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
Broadband Horn Antenna	A-INFOMW	LB-180500H-2.4F	CTA-336	2023/09/13	2026/09/12
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/03	2025/08/02
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/03	2025/08/02
Directional coupler	NARDA	4226-10	CTA-303	2024/08/03	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/03	2025/08/02
Automated filter bank	Tonscend	JS0806-F	CTA-404	2024/08/03	2025/08/02
Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02
Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	G Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A
	GM		GM CTH	TESTINO	<i>C</i>

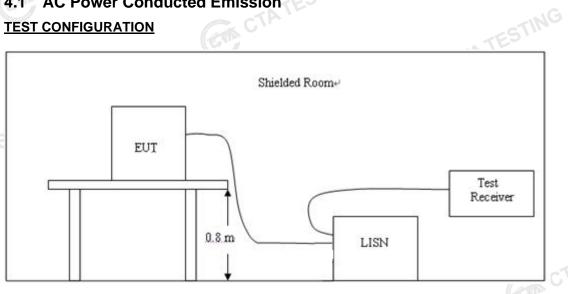
Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

CTATE

TEST CONDITIONS AND RESULTS 4

AC Power Conducted Emission 4.1

TEST CONFIGURATION



TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

CTATES AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

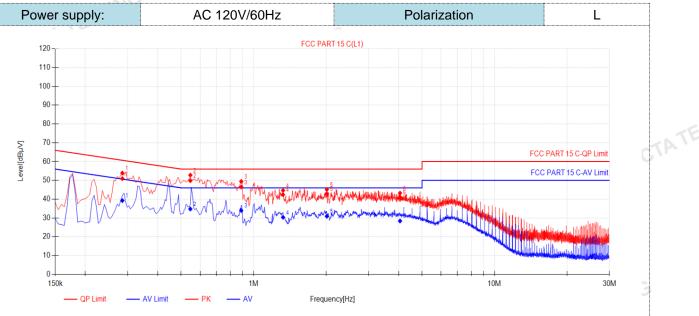
Frequency range (MHz)	Limit	(dBuV)
Frequency range (MHZ)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

TEST RESULTS

Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:





. .

QP Detector

Final Data List												
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	A∨ Margin [dB]	Verdict	
1	0.285	9.95	40.98	50.93	60.67	9.74	29.28	39.23	50.67	11.44	PASS	
2	0.546	10.03	39.79	49.82	56.00	6.18	24.73	34.76	46.00	11.24	PASS	
3	0.888	10.02	36.46	46.48	56.00	9.52	23.91	33 <mark>.</mark> 93	46.00	12.07	PASS	
4	1.3245	9.90	32.47	42.37	56.00	13.63	20.43	30.33	46.00	15.67	PASS	
5	2.013	9.93	32.93	42.86	56.00	13.14	20.97	30.90	46.00	15.10	PASS	
6	4.0515	9.92	31.14	41.06	56.00	14.94	18.47	28.39	46.00	17.61	PASS	
2). Fac 3). QPI).QP Value tor (dB)=ir Margin(dB) Margin(dB)	nsertion I) = QP L	oss of Ll imit (dBµ	SN (dB) V) - QP	+ Cable Value (d	loss (dB BµV)					6	CTATE

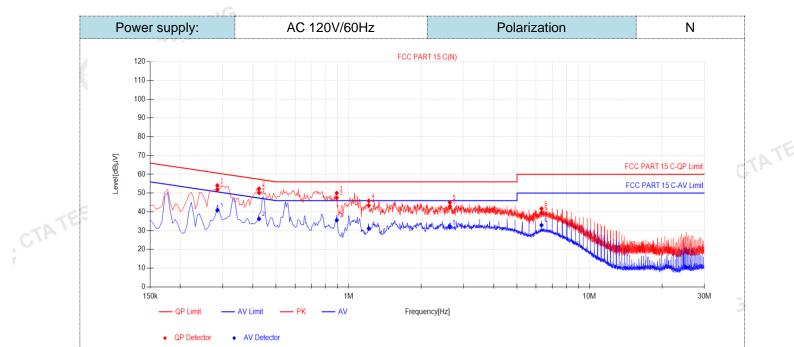
AV Detector

4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V) CTATESTING

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

CTATE





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4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V) CTATESTING

4.2 **Radiated Emission**

Limit

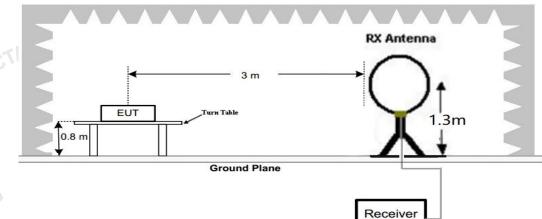
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, 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)

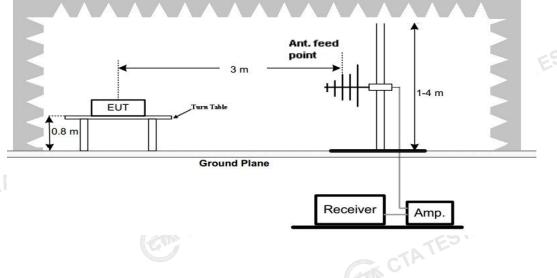
		Rac	diated emission limits		
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)	
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)	
CTATE	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)	
GVE	1.705-30	3	20log(30)+ 40log(30/3)	30	
1	30-88	3	40.0	30 100 150	
	88-216	3	43.5	150	
	216-960	3	46.0	200	
	Above 960	3	54.0	500	
				- CTA I	
	TEST CONFIGURATI	ON			

TEST CONFIGURATION





2. Radiated Emission Test Set-Up, Frequency below 1000MHz



Report No.: CTA25022100902

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn 2. table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- 5. Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states: 6.

	Test Frequency range	Test Antenna Type	Test Distance	
	9KHz-30MHz	Active Loop Antenna	3	
3	30MHz-1GHz	Bilog Antenna	3	
		6 H - 1 - 1 - 1 - 1		

CTATEST Setting test receiver/spectrum as following table states:

	Test Frequency range	Test Receiver/Spectrum Setting	Detector
	9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
	150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
	30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
		CTATES.	
R	ESULTS		
~			

TEST RESULTS

For 9 KHz-30MHz

EST RESU	LTS				A CTATI			
or 9 KHz-30)MHz	WORS	ST-CASE R	ADIATED	EMISSION	BELOW 30 MHz	CTA C	
Frequency	Reading	Polar	Antenna Factor	Cable Loss	Emission Levels	Limits at 3m	Margin	Detector Mode
(MHz)	(dBµV/m)	Loop	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
0.1320000(F)	75.63	Loop	23.63	0.02	99.28	105.19	5.91	PK
0.1320000(F)	55.51	Loop	23.63	0.02	79.16	85.19	6.03	AV
0.110	54.69	Loop	23.51	0.02	78.22	106.78	28.56	PK
0.110	47.90	Loop	23.51	0.02	71.43	86.78	15.35	AV
0.288	45.92	Loop	23.82	-0.17	69.57	98.42	28.85	QP
0.471	42.71	Loop	24.21	-0.28	66.64	94.14	27.50	QP
0.549	36.23	Loop	24.32	-0.3	60.25	72.81	12.56	QP

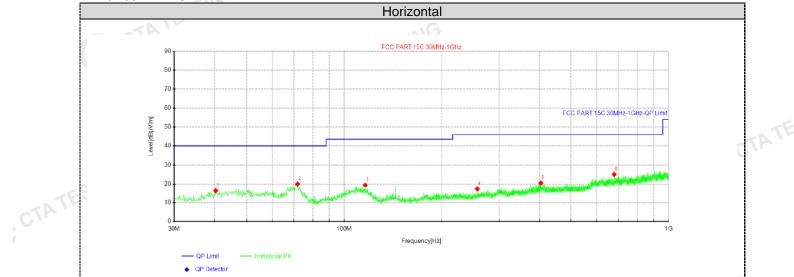
Remark:

Data of measurement within this frequency range shown "-- in the table above means the reading of 1. emissions are attenuated more than 20dB below the permissible limits and not recorded.

- 2. The test limit distance is 3m limit.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value. 3.
- F means Fundamental Frequency. 4.
- CTATESTING Emission level (dBuV/m) = Reading + Antenna Factor + Cable Loss. 5.
- Margin value = Limit value- Emission level. 6.

GA CTATE

For 30MHz-1GHz



Suspected Data List

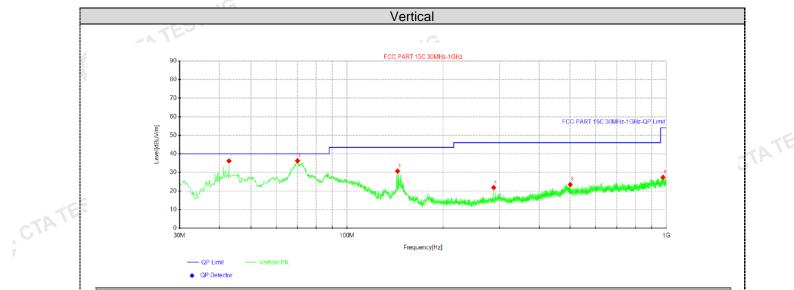
	•									
N	NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity
		[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polanty
	1	40.3062	28.27	16.35	-11.92	40.00	23. <mark>6</mark> 5	200	323	Horizontal
	2	71.8312	35.26	20.07	-15.19	40.00	19.93	100	126	Horizontal
	3	116.087	33.13	19.44	-13.69	43.50	24.06	100	115	Horizontal
	4	257.101	29.36	17.35	-12.01	46.00	28.65	200	351	Horizontal
	5	403.692	30.69	20.59	-10.10	46.00	25.41	100	288	Horizontal
	6	679.415	30.46	25.16	-5.30	46.00	20.84	100	102	Horizontal

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

COM CTATE



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.8525	47.83	36.17	-11.66	40.00	3.83	200	0	Vertical
2	70.0125	50.95	36.27	-14.68	40.00	3.73	100	51	Vertical
3	143.975	46.28	30.71	-15.57	43.50	12.79	100	224	Vertical
4	288.02	33.12	21.83	-11.29	46.00	24.17	200	179	Vertical
5	500.207	32.52	23.44	-9.08	46.00	22.56	100	213	Vertical
6	976.235	29.23	27.35	-1.88	54.00	26.65	100	27	Vertical

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

4.3 The 20dB bandwidth



TEST PROCEDURE

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 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be deomonstrated by measuring the radiated emissions.

LIMIT

The 20dB bandwidth shall be less than 80% of the permitted frequency band

TEST RESULTS

Mode	Freq (KHz)	20dB Bandwidth (KHz)	Conclusion
Tx Mode	132.0	3.038	PASS
Comments of the second s	CTA		STING

	nter Freq 132.000 kHz	Tria: F	er Freq: 132.000 kHz Free Run Avg Hold n: 10 dB	Radio Std: None i:>10/10 Radio Device: B1	rs	
Log					Center Freq 132.000 kHz	
NG 400 400 400 700 800						
-90.0 -100 -110						
-120 Cer #Re	ter 132 kHz s BW 1 kHz	#	VBW 3 kHz	Span 10 Sweep 12.4	ms CF Step	
C	occupied Bandwidth 2	.867 kHz	Total Power	-47.9 dBm	Auto Man	CTATESTIN
	ransmit Freq Error	409 Hz	OBW Power	99.00 %	Freq Offset 0 Hz	
×	dB Bandwidth	3.038 kHz	x dB	-20.00 dB		GIN
MSG				STATUS 1. DC Coupled		
CTATESTING						
TATES			STING			



Standard Applicable

Standard Applicable

CTATESTING For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to CTATE ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Information

The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is GTA TES 0.dBi.

5 Test Setup Photos of the EUT







«******ESTING

PHOTOS OF THE EUT 6

Reference to the test report No. CTA25022100901