FCC TEST REPORT

Product	:	LED Display Screen
Trade mark	:	N/A
Model/Type reference	:	FP20 2R1G
Serial Number	:	N/A
Ratings	:	AC 100-240V, 16A
Report Number	:	EED32K002203
Date	:	Aug. 30, 2018
Regulations	:	See below

Test Standards	Results
☒ 47 CFR FCC Part 15 Subpart B	PASS

Prepared for:

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Approved by: David Wang Date: Aug. 30, 2018

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Check No.: 2447658712

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(Note: N/A means not applicable)

1. GENERAL INFORMATION

Applicant:	Shenzhen Chip Optech Co., Ltd Tower C,Baoshi Technological Park,Baoshi Road,Shiyan Street, Bao'an District.Shenzhen City China 518102
Manufacturer:	Shenzhen Chip Optech Co., Ltd Tower C,Baoshi Technological Park,Baoshi Road,Shiyan Street, Bao'an District.Shenzhen City China 518102
Product:	LED Display Screen
Trade mark:	N/A
Model/Type reference:	FP20 2R1G
Serial Number:	N/A
Report Number:	EED32K002203
Sample Received Date:	Jul. 20, 2018
Sample tested Date:	Jul. 20, 2018 to Aug. 09, 2018

The tested sample(s) and the sample information are provided by the client.

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Standard	Test Item	Test Method	Test
FCC 15.107	Conducted Emission	ANSI C63.4:2014	Yes
FCC 15.109	Radiated Emission	ANSI C63.4:2014	Yes

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted Emission	3.4
Radiated Emission	5.3

4. PRODUCT INFORMATION AND TEST SETUP

4.1. PRODUCT INFORMATION

Ratings: AC 100-240V, 16A

4.2. TEST SETUP CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between Product and support equipment.

4.3. SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
1.	---	---	---	---	---	---

Notes:
1. All the equipment/cables were placed in the worst-case configuration to white screenimize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. FACILITIES AND ACCREDITATIONS

5.1. TEST FACILITY

All test facilities used to collect the test data are located at Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4, CISPR 16-1-1 and other equivalent standards.

5.2. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipments used at CTI for testing.
The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

Equipment used during the tests:

Shielding Room No. 1 - Conducted Emission Test				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Due Date**
Receiver	R&S	ESCI	100435	05/24/2019
LISN	R&S	ENV216	100098	05/10/2019

3M Semi-anechoic Chamber (2)- Radiated disturbance Test				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Due Date**
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06/04/2019
Receiver	R&S	ESCI	100009	05/24/2019
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	401	04/25/2019
Multi device Controller	maturo	NCD/070/10711112	---	N/A

5.3. LABORATORY ACCREDITATIONS AND LISTINGS

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

6. CONDUCTED EMISSION TEST

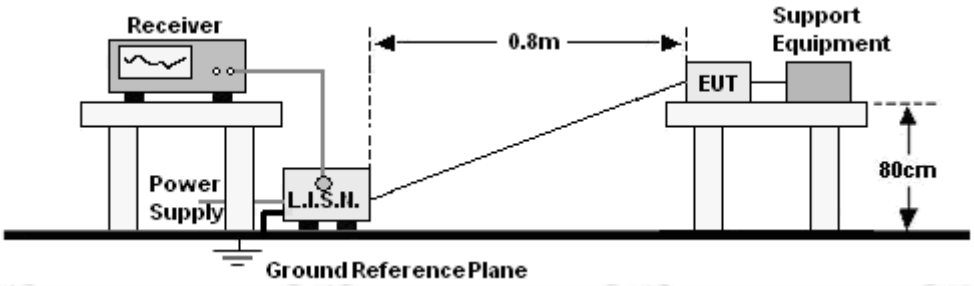
6.1. LIMITS

Limits for Class A digital devices

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

NOTE: The lower limit shall apply at the transition frequency.

6.2. BLOCK DIAGRAM OF TEST SETUP



6.3. PROCEDURE OF CONDUCTED EMISSION TEST

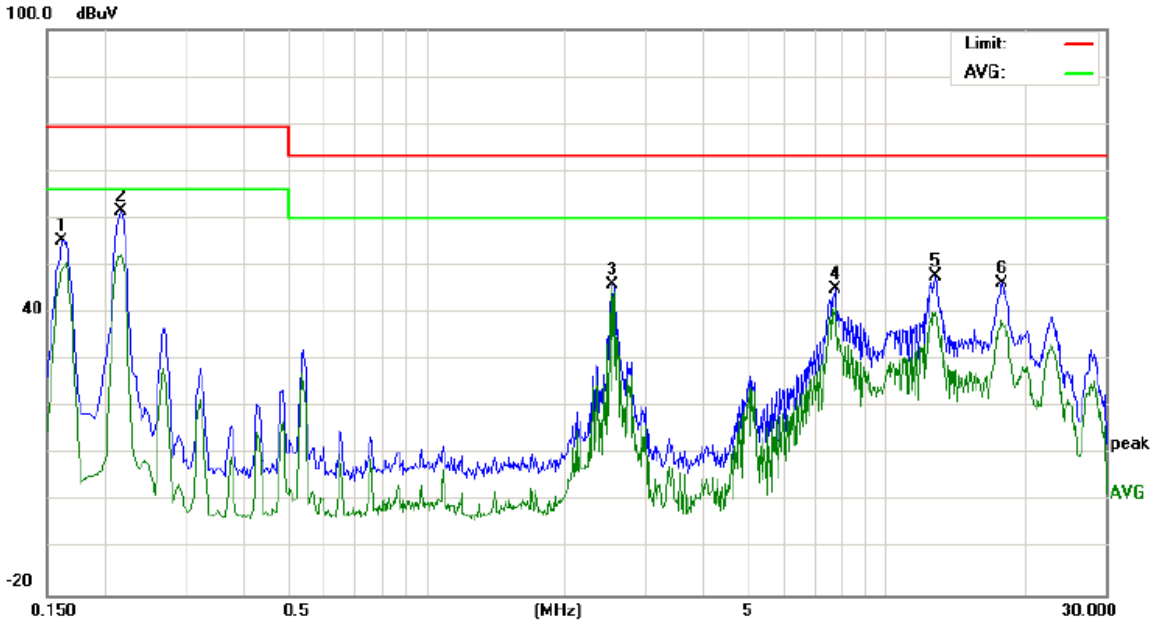
a. The Product was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

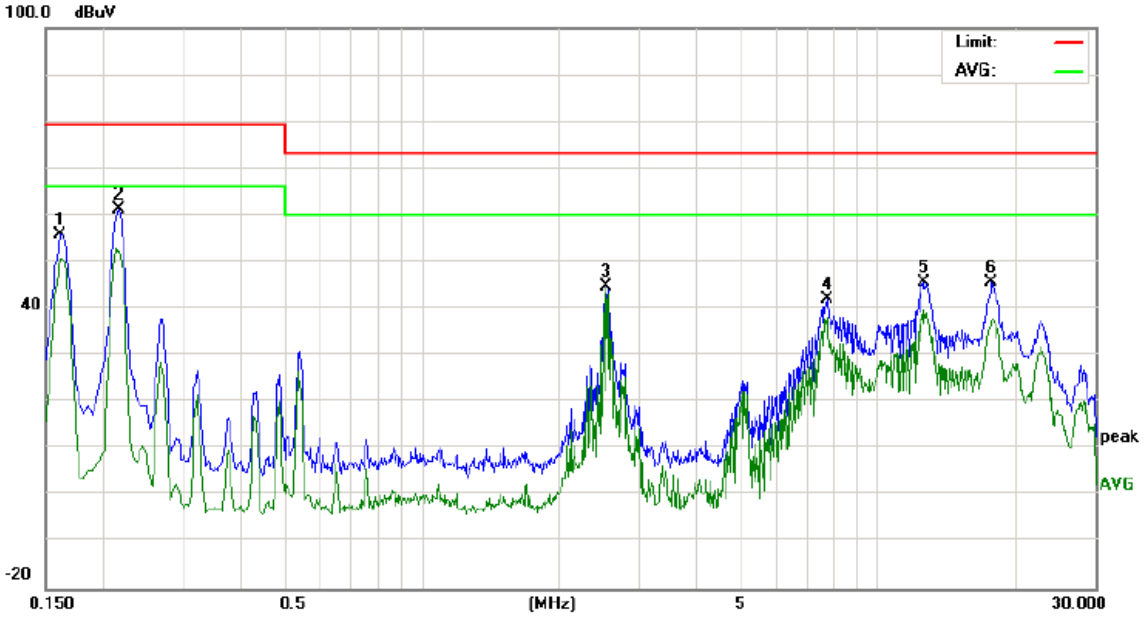
6.4. GRAPHS AND DATA

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	22℃
Mode	:	red screen	**Humidity**	:	53%
Phase	:	L			



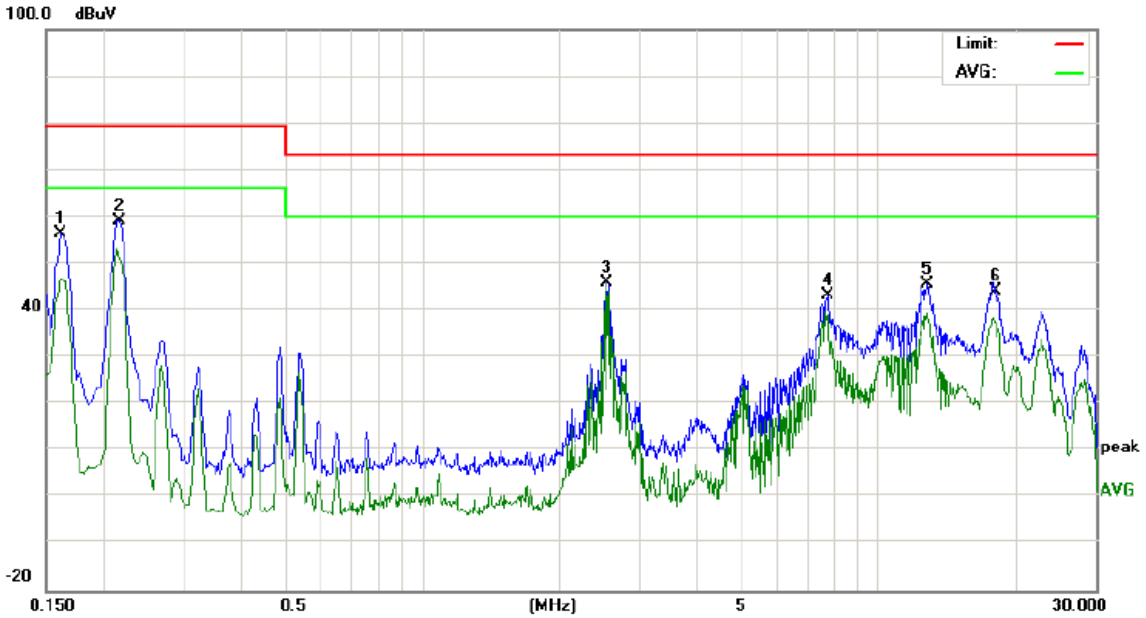
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	45.26		39.54	9.75	55.01		49.29	79.00	66.00	-23.99	-16.71	P	
2	0.2180	51.69		42.29	9.72	61.41		52.01	79.00	66.00	-17.59	-13.99	P	
3	2.5500	36.10		35.63	9.70	45.80		45.33	73.00	60.00	-27.20	-14.67	P	
4	7.7580	35.20		31.34	9.66	44.86		41.00	73.00	60.00	-28.14	-19.00	P	
5	12.7900	37.75		30.12	9.91	47.66		40.03	73.00	60.00	-25.34	-19.97	P	
6	17.9300	36.18		27.62	10.04	46.22		37.66	73.00	60.00	-26.78	-22.34	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	22℃
Mode	:	red screen	**Humidity**	:	53%
Phase	:	N			



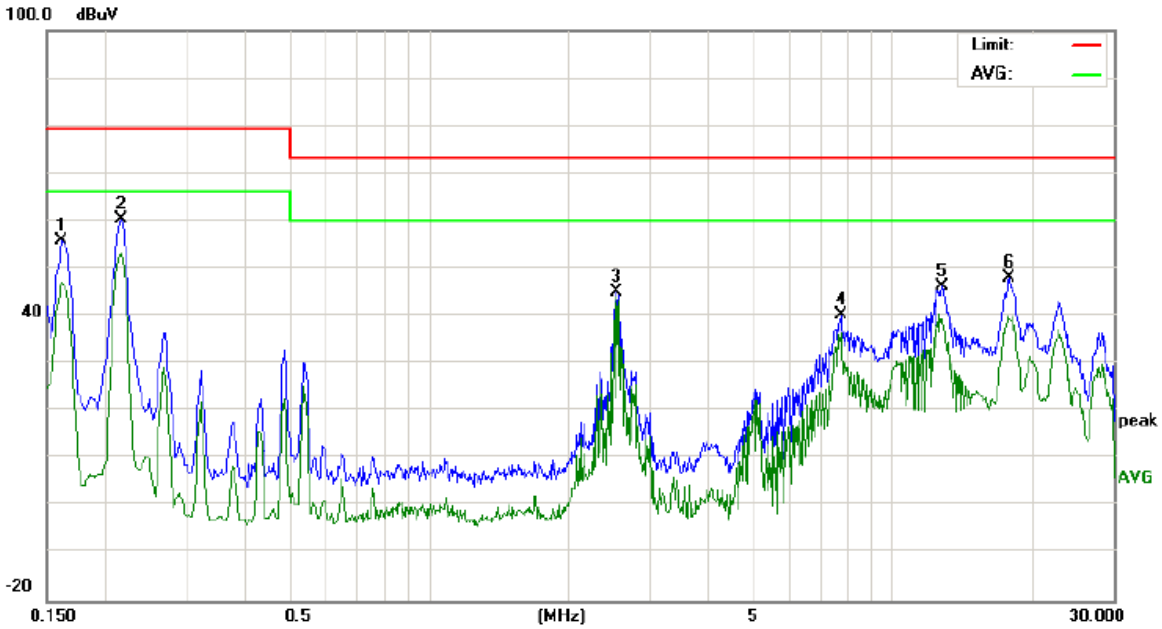
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	45.97		40.99	9.75	55.72		50.74	79.00	66.00	-23.28	-15.26	P	
2	0.2180	51.54		42.28	9.72	61.26		52.00	79.00	66.00	-17.74	-14.00	P	
3	2.5500	35.00		34.50	9.70	44.70		44.20	73.00	60.00	-28.30	-15.80	P	
4	7.7580	32.37		28.37	9.66	42.03		38.03	73.00	60.00	-30.97	-21.97	P	
5	12.6860	35.51		29.73	9.91	45.42		39.64	73.00	60.00	-27.58	-20.36	P	
6	17.7900	35.66		27.13	10.04	45.70		37.17	73.00	60.00	-27.30	-22.83	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	22℃
Mode	:	red screen	**Humidity**	:	53%
Phase	:	L			



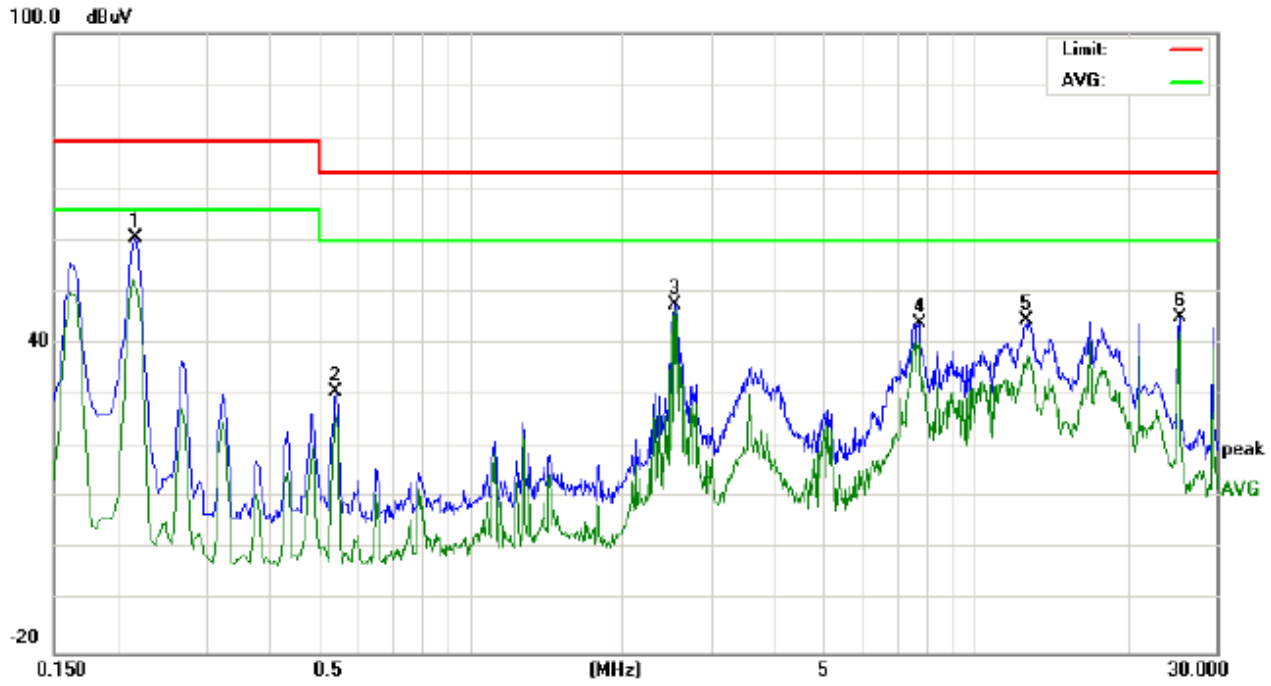
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	46.55		36.91	9.75	56.30		46.66	79.00	66.00	-22.70	-19.34	P	
2	0.2180	49.46		41.47	9.72	59.18		51.19	79.00	66.00	-19.82	-14.81	P	
3	2.5500	36.02		35.34	9.70	45.72		45.04	73.00	60.00	-27.28	-14.96	P	
4	7.7580	33.58		29.40	9.66	43.24		39.06	73.00	60.00	-29.76	-20.94	P	
5	12.7900	35.50		29.24	9.91	45.41		39.15	73.00	60.00	-27.59	-20.85	P	
6	18.2099	33.42		16.12	10.04	43.46		26.16	73.00	60.00	-29.54	-33.84	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	22℃
Mode	:	red screen	**Humidity**	:	53%
Phase	:	N			



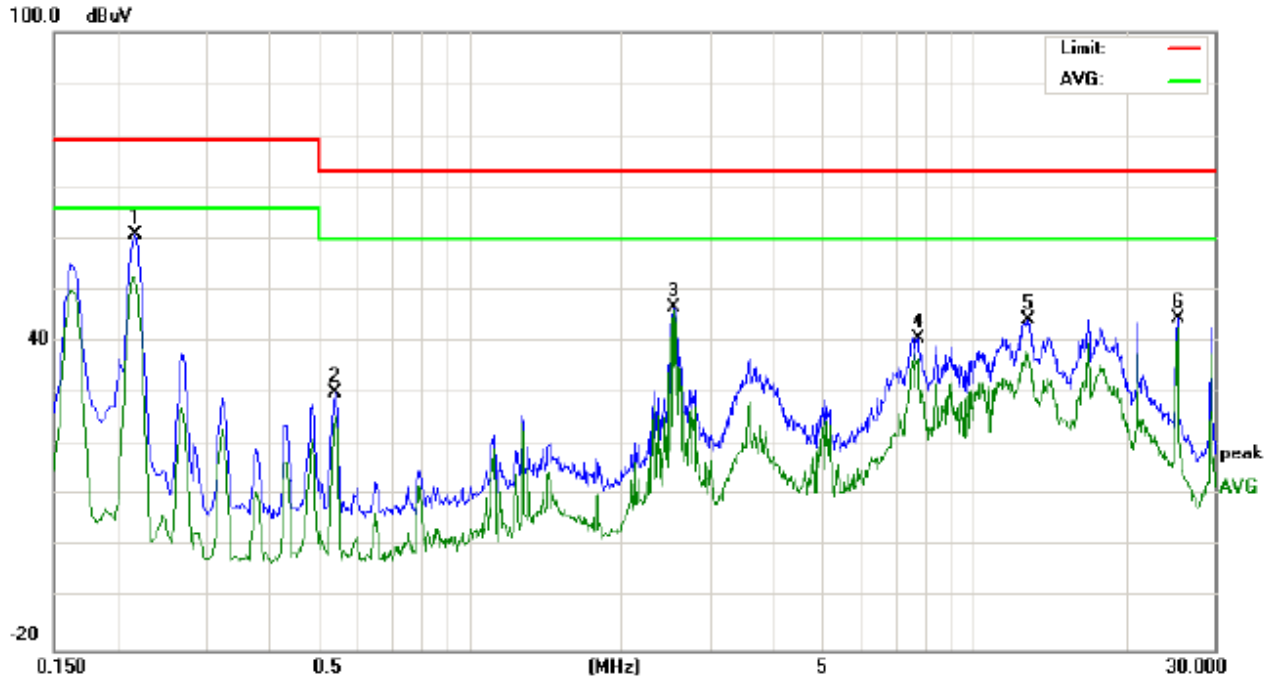
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	45.95		37.21	9.75	55.70		46.96	79.00	66.00	-23.30	-19.04	P	
2	0.2180	50.51		43.32	9.72	60.23		53.04	79.00	66.00	-18.77	-12.96	P	
3	2.5500	35.12		34.43	9.70	44.82		44.13	73.00	60.00	-28.18	-15.87	P	
4	7.7580	30.50		26.62	9.66	40.16		36.28	73.00	60.00	-32.84	-23.72	P	
5	12.7900	36.22		29.43	9.91	46.13		39.34	73.00	60.00	-26.87	-20.66	P	
6	17.9300	37.91		29.27	10.04	47.95		39.31	73.00	60.00	-25.05	-20.69	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	22℃
Mode	:	“H”	**Humidity**	:	53%
Phase	:	L			



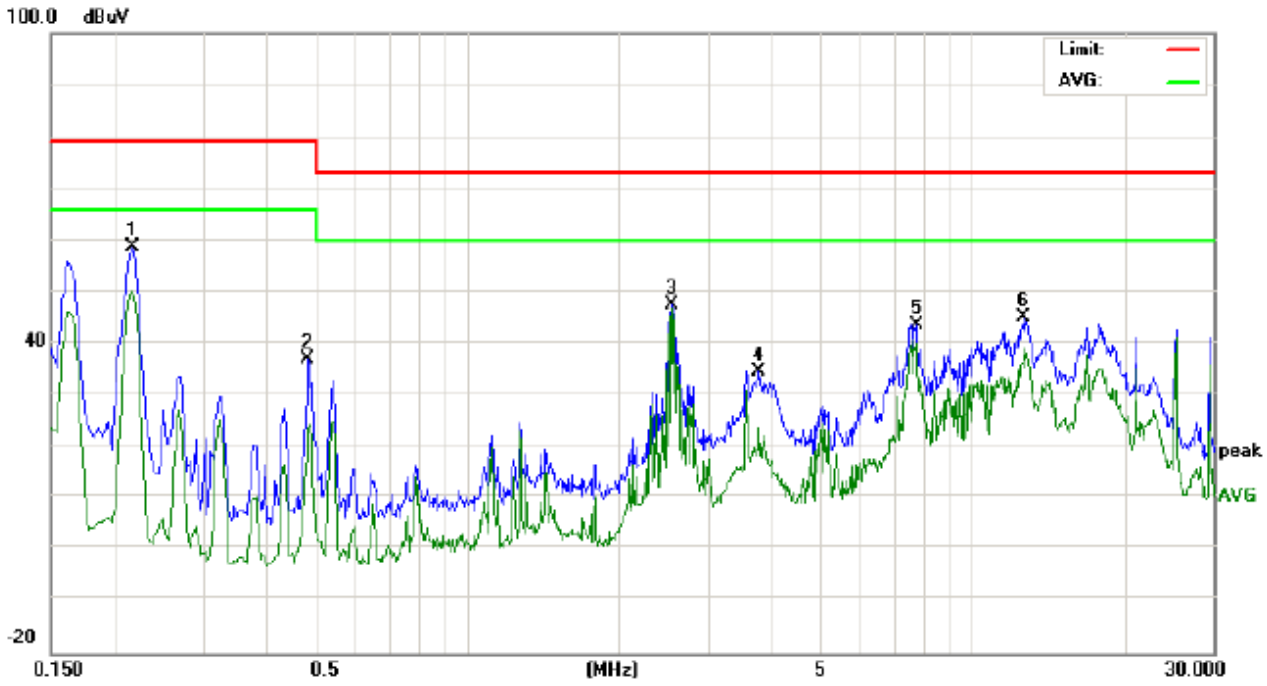
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.2180	50.89		41.76	9.72	60.61		51.48	79.00	66.00	-18.39	-14.52	P	
2	0.5420	21.18		15.84	9.73	30.91		25.57	73.00	60.00	-42.09	-34.43	P	
3	2.5500	37.98		37.18	9.70	47.68		46.88	73.00	60.00	-25.32	-13.12	P	
4	7.7580	34.36		30.54	9.66	44.02		40.20	73.00	60.00	-28.98	-19.80	P	
5	12.6820	34.70		28.11	9.91	44.61		38.02	73.00	60.00	-28.39	-21.98	P	
6	25.3260	35.08		32.36	10.19	45.27		42.55	73.00	60.00	-27.73	-17.45	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	22℃
Mode	:	“H”	**Humidity**	:	53%
Phase	:	N			



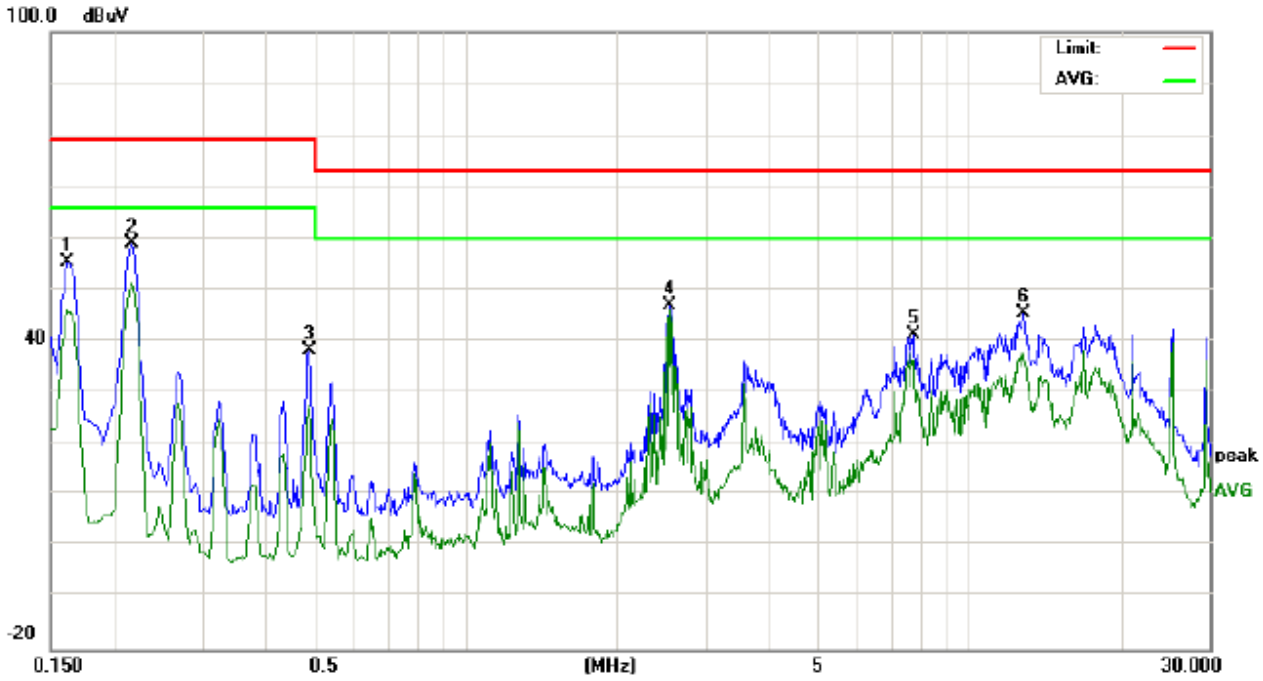
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.2180	51.01		42.69	9.72	60.73		52.41	79.00	66.00	-18.27	-13.59	P	
2	0.5420	20.40		15.47	9.73	30.13		25.20	73.00	60.00	-42.87	-34.80	P	
3	2.5500	37.17		36.36	9.70	46.87		46.06	73.00	60.00	-26.13	-13.94	P	
4	7.7580	31.21		27.21	9.66	40.87		36.87	73.00	60.00	-32.13	-23.13	P	
5	12.7900	34.33		27.86	9.91	44.24		37.77	73.00	60.00	-28.76	-22.23	P	
6	25.3260	34.44		32.57	10.19	44.63		42.76	73.00	60.00	-28.37	-17.24	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	22℃
Mode	:	“H”	**Humidity**	:	53%
Phase	:	L			



No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.2180	48.97		40.66	9.72	58.69		50.38	79.00	66.00	-20.31	-15.62	P	
2	0.4860	27.42		14.30	9.72	37.14		24.02	79.00	66.00	-41.86	-41.98	P	
3	2.5500	37.99		37.22	9.70	47.69		46.92	73.00	60.00	-25.31	-13.08	P	
4	3.7860	25.05		14.30	9.66	34.71		23.96	73.00	60.00	-38.29	-36.04	P	
5	7.7580	34.09		30.44	9.66	43.75		40.10	73.00	60.00	-29.25	-19.90	P	
6	12.6860	35.48		29.24	9.91	45.39		39.15	73.00	60.00	-27.61	-20.85	P	

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	22℃
Mode	:	“H”	**Humidity**	:	53%
Phase	:	N			



No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	45.80		36.29	9.75	55.55		46.04	79.00	66.00	-23.45	-19.96	P	
2	0.2180	49.32		41.81	9.72	59.04		51.53	79.00	66.00	-19.96	-14.47	P	
3	0.4900	28.61		18.13	9.71	38.32		27.84	79.00	66.00	-40.68	-38.16	P	
4	2.5500	37.23		36.40	9.70	46.93		46.10	73.00	60.00	-26.07	-13.90	P	
5	7.7580	31.66		26.86	9.66	41.32		36.52	73.00	60.00	-31.68	-23.48	P	
6	12.7900	35.68		27.93	9.91	45.59		37.84	73.00	60.00	-27.41	-22.16	P	

7. RADIATED EMISSION TEST

7.1. LIMITS

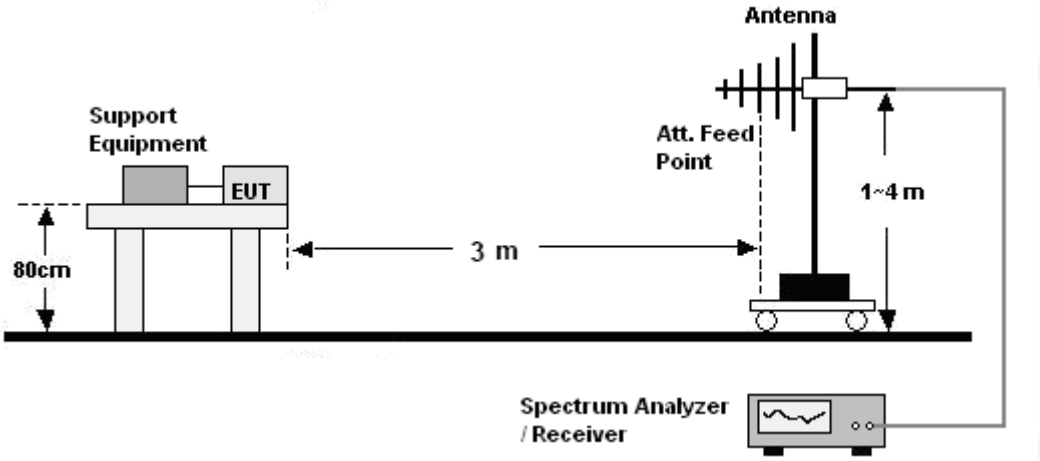
Limits for Class A digital devices

Frequency (MHz)	limits at 3m dB(μV/m)
30-88	49.5
88-216	54.0
216-960	56.0
Above 960	59.5

NOTE: 1. The lower limit shall apply at the transition frequency.
2. The limits shown above are based on measuring equipment employing a CISPR quasi-peak detector function for frequencies below or equal to 1000MHz.
3. The limits shown above are based on measuring equipment employing an average detector function for frequencies above 1000MHz.

7.2. BLOCK DIAGRAM OF TEST SETUP

30MHz ~ 1GHz:



7.3. PROCEDURE OF RADIATED EMISSION TEST

30MHz ~ 1GHz:

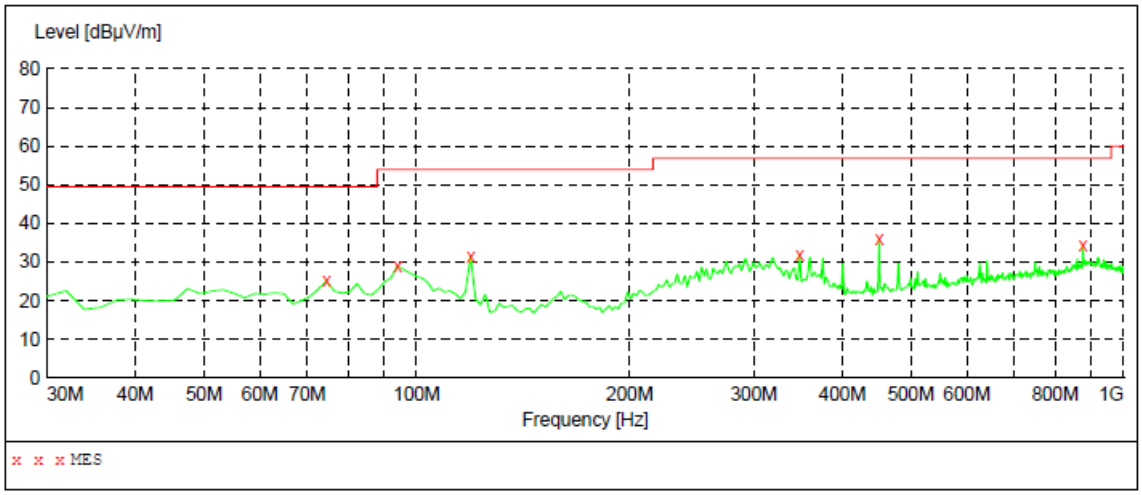
a. The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

7.4. GRAPHS AND DATA

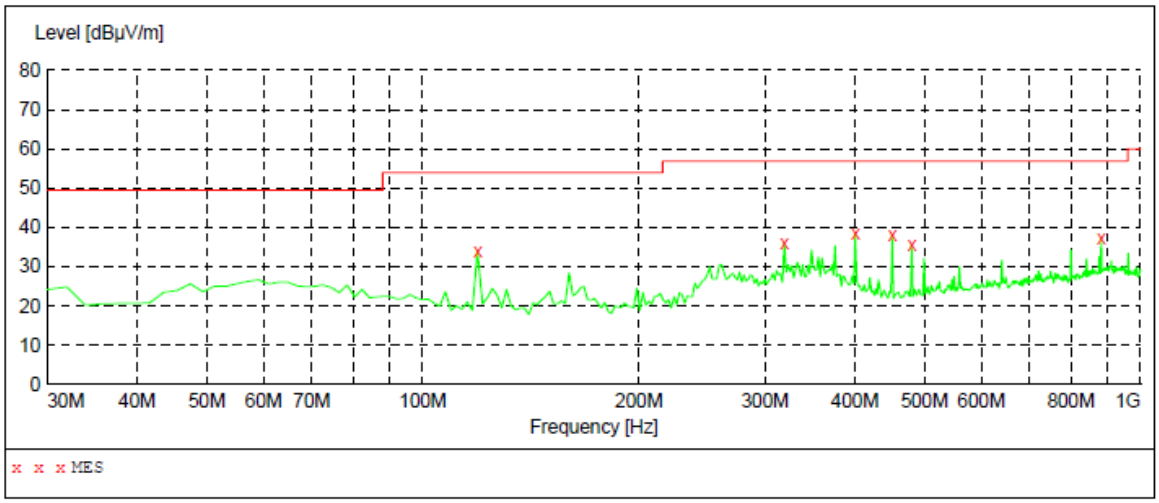
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	24℃
Mode	:	“H”	**Humidity**	:	50%
Polarization	:	Horizontal			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
74.620000	25.10	10.2	49.5	24.4	QP	200.0	360.00	HORIZONTAL
94.020000	29.00	12.1	54.0	25.0	QP	200.0	359.00	HORIZONTAL
119.240000	31.50	12.0	54.0	22.5	QP	200.0	6.00	HORIZONTAL
348.160000	31.90	15.8	56.9	25.0	QP	100.0	0.00	HORIZONTAL
450.980000	35.80	17.8	56.9	21.1	QP	100.0	353.00	HORIZONTAL
875.840000	34.50	24.3	56.9	22.4	QP	100.0	105.00	HORIZONTAL

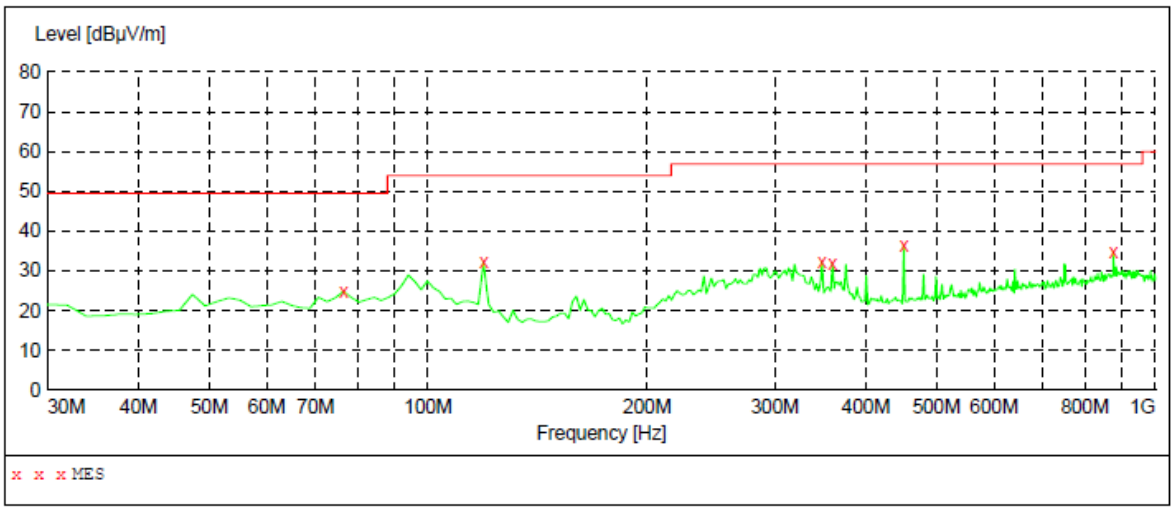
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	24℃
Mode	:	“H”	**Humidity**	:	50%
Polarization	:	Vertical			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
119.240000	34.00	12.0	54.0	20.0	QP	100.0	360.00	VERTICAL
319.060000	35.90	15.1	56.9	21.0	QP	100.0	348.00	VERTICAL
400.540000	38.60	16.8	56.9	18.3	QP	100.0	205.00	VERTICAL
450.980000	38.00	17.8	56.9	18.9	QP	100.0	165.00	VERTICAL
480.080000	35.40	18.3	56.9	21.5	QP	100.0	165.00	VERTICAL
881.660000	37.10	24.4	56.9	19.8	QP	100.0	305.00	VERTICAL

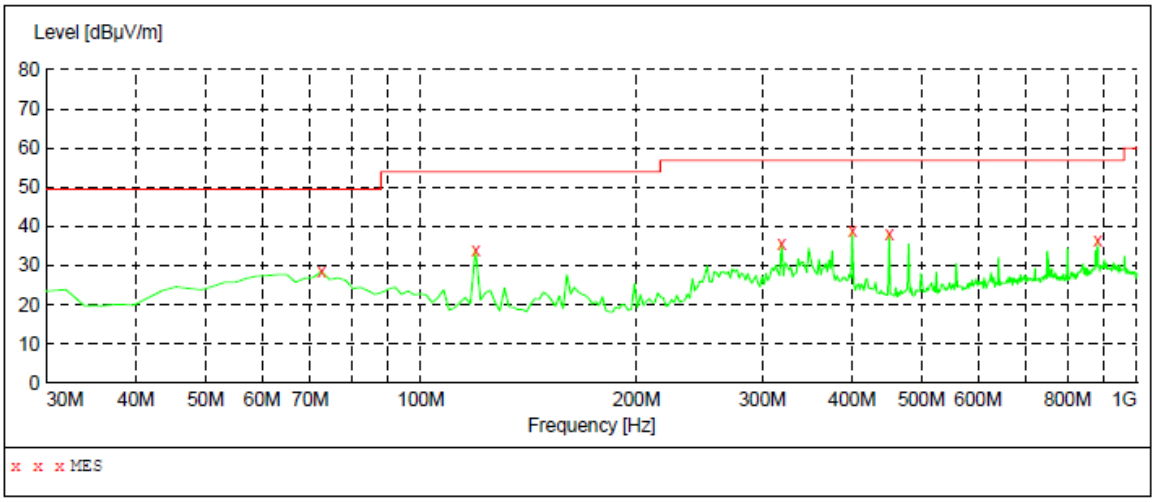
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	24℃
Mode	:	“H”	**Humidity**	:	50%
Polarization	:	Horizontal			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
76.560000	24.90	9.8	49.5	24.6	QP	200.0	360.00	HORIZONTAL
119.240000	32.10	12.0	54.0	21.9	QP	200.0	360.00	HORIZONTAL
348.160000	32.30	15.8	56.9	24.6	QP	100.0	139.00	HORIZONTAL
359.800000	31.70	16.1	56.9	25.2	QP	200.0	72.00	HORIZONTAL
450.980000	36.30	17.8	56.9	20.6	QP	200.0	84.00	HORIZONTAL
875.840000	34.80	24.3	56.9	22.1	QP	100.0	72.00	HORIZONTAL

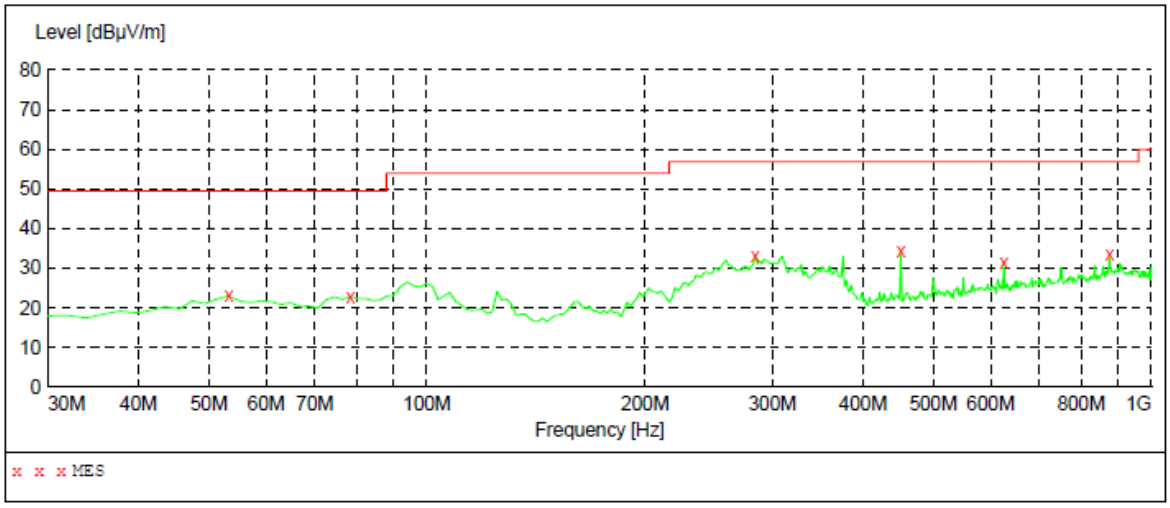
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	24℃
Mode	:	“H”	**Humidity**	:	50%
Polarization	:	Vertical			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
72.680000	28.50	10.5	49.5	21.0	QP	100.0	49.00	VERTICAL
119.240000	34.10	12.0	54.0	19.9	QP	100.0	15.00	VERTICAL
319.060000	35.70	15.1	56.9	21.2	QP	100.0	273.00	VERTICAL
400.540000	38.80	16.8	56.9	18.1	QP	100.0	49.00	VERTICAL
450.980000	38.20	17.8	56.9	18.7	QP	100.0	176.00	VERTICAL
881.660000	36.50	24.4	56.9	20.4	QP	100.0	92.00	VERTICAL

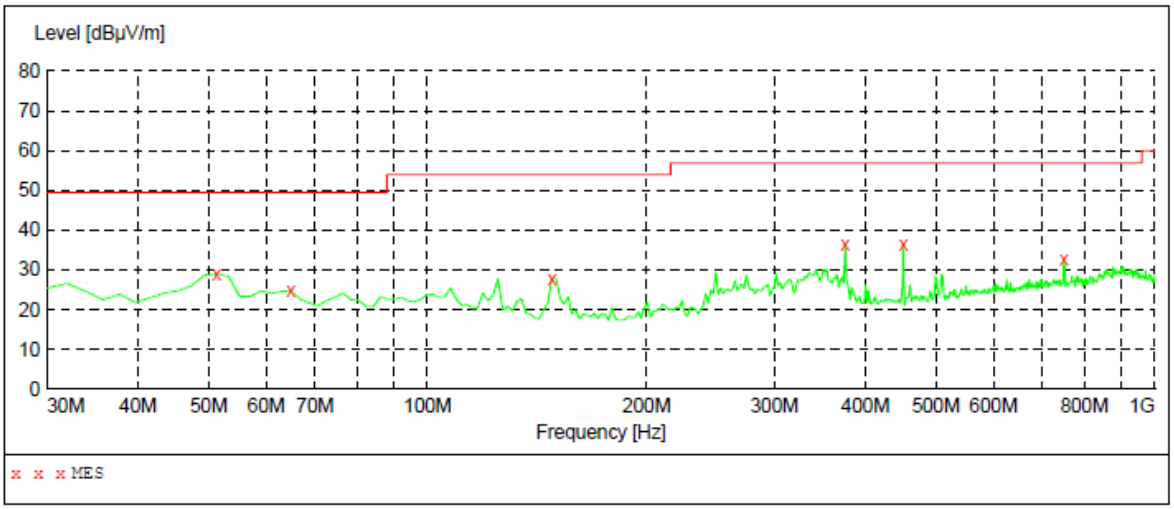
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	24℃
Mode	:	red screen	**Humidity**	:	50%
Polarization	:	Horizontal			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
53.280000	23.10	14.4	49.5	26.4	QP	200.0	127.00	HORIZONTAL
78.500000	22.90	9.5	49.5	26.6	QP	200.0	0.00	HORIZONTAL
284.140000	33.30	14.4	56.9	23.6	QP	100.0	143.00	HORIZONTAL
450.980000	34.20	17.8	56.9	22.7	QP	200.0	127.00	HORIZONTAL
625.580000	31.40	20.5	56.9	25.5	QP	200.0	113.00	HORIZONTAL
875.840000	33.40	24.3	56.9	23.5	QP	100.0	113.00	HORIZONTAL

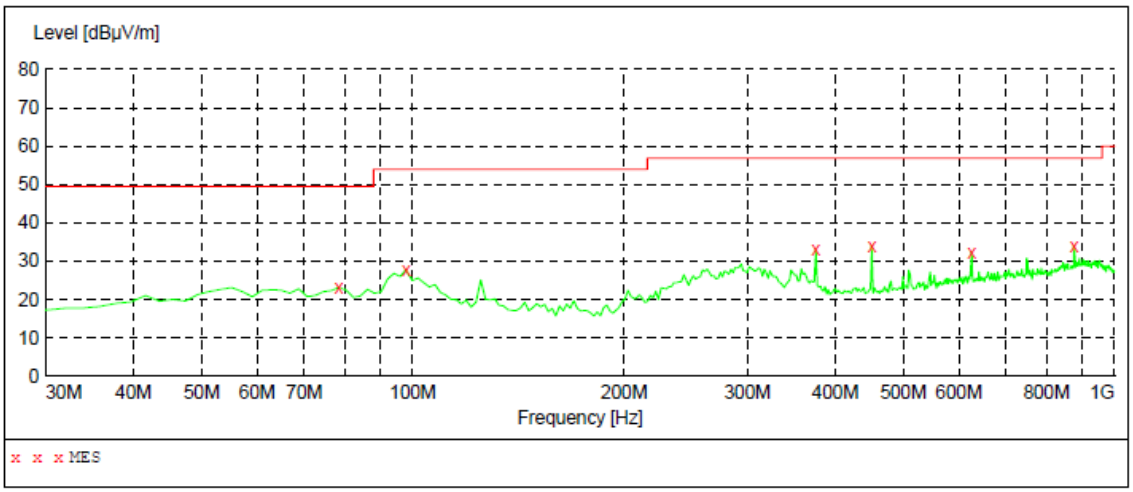
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 120V/60Hz	**Temperature**	:	24℃
Mode	:	red screen	**Humidity**	:	50%
Polarization	:	Vertical			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	29.00	14.7	49.5	20.5	QP	100.0	202.00	VERTICAL
64.920000	24.80	12.2	49.5	24.7	QP	100.0	62.00	VERTICAL
148.340000	27.90	9.2	54.0	26.1	QP	100.0	0.00	VERTICAL
375.320000	36.40	16.4	56.9	20.5	QP	200.0	153.00	VERTICAL
450.980000	36.50	17.8	56.9	20.4	QP	200.0	140.00	VERTICAL
749.740000	32.50	22.2	56.9	24.4	QP	100.0	158.00	VERTICAL

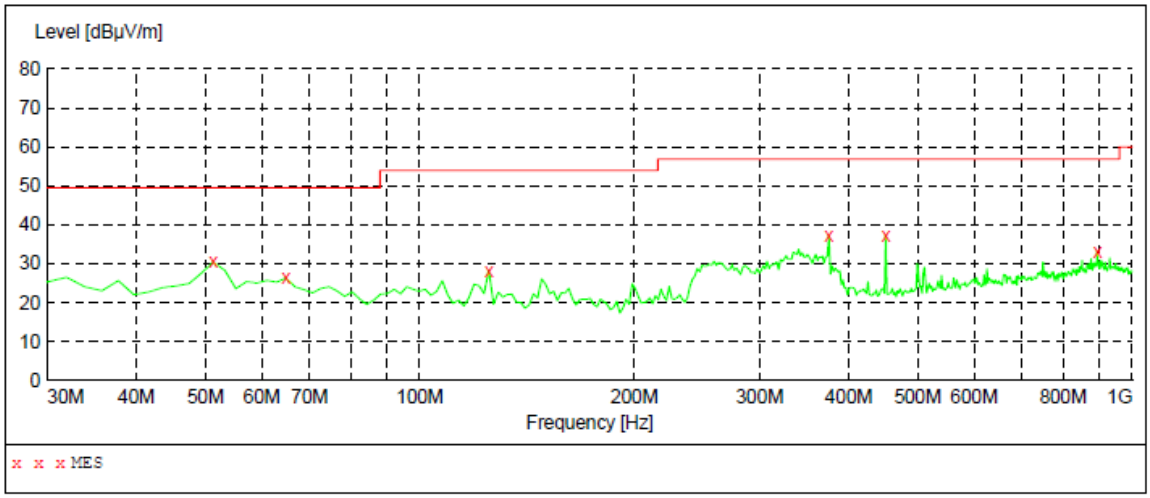
Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	24℃
Mode	:	red screen	**Humidity**	:	50%
Polarization	:	Horizontal			



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
78.500000	23.20	9.5	49.5	26.3	QP	200.0	0.00	HORIZONTAL
97.900000	27.90	12.9	54.0	26.1	QP	200.0	360.00	HORIZONTAL
375.320000	33.00	16.4	56.9	23.9	QP	100.0	219.00	HORIZONTAL
450.980000	34.10	17.8	56.9	22.8	QP	200.0	114.00	HORIZONTAL
625.580000	32.30	20.5	56.9	24.6	QP	200.0	114.00	HORIZONTAL
875.840000	34.00	24.3	56.9	22.9	QP	100.0	106.00	HORIZONTAL

Product	:	LED Display Screen			
Model/Type reference	:	FP20 2R1G			
Power	:	AC 230V/50Hz	**Temperature**	:	24℃
Mode	:	red screen	**Humidity**	:	50%
Polarization	:	Vertical			

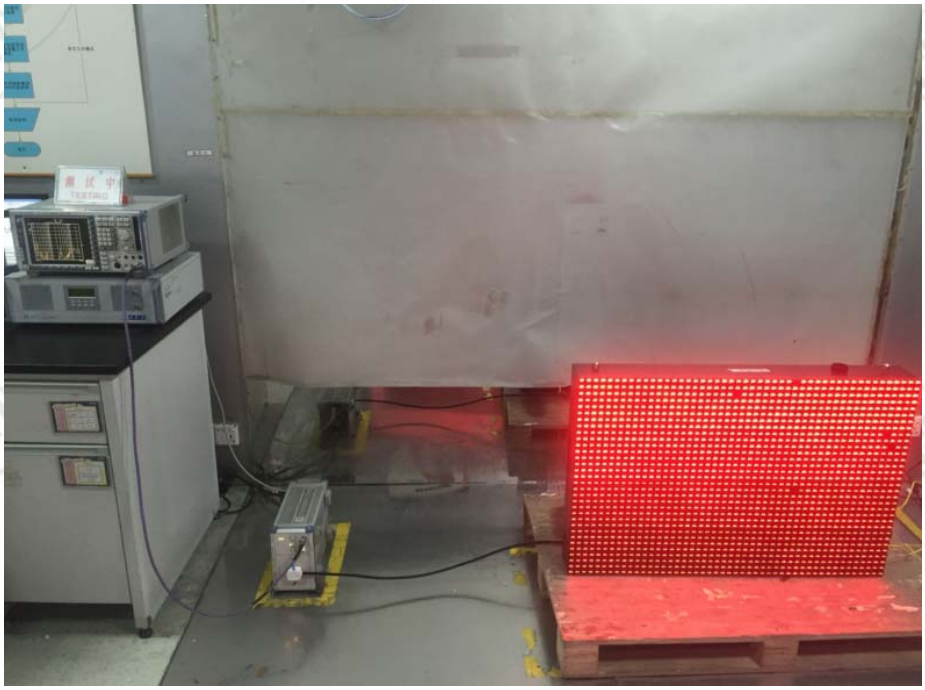


MEASUREMENT RESULT:

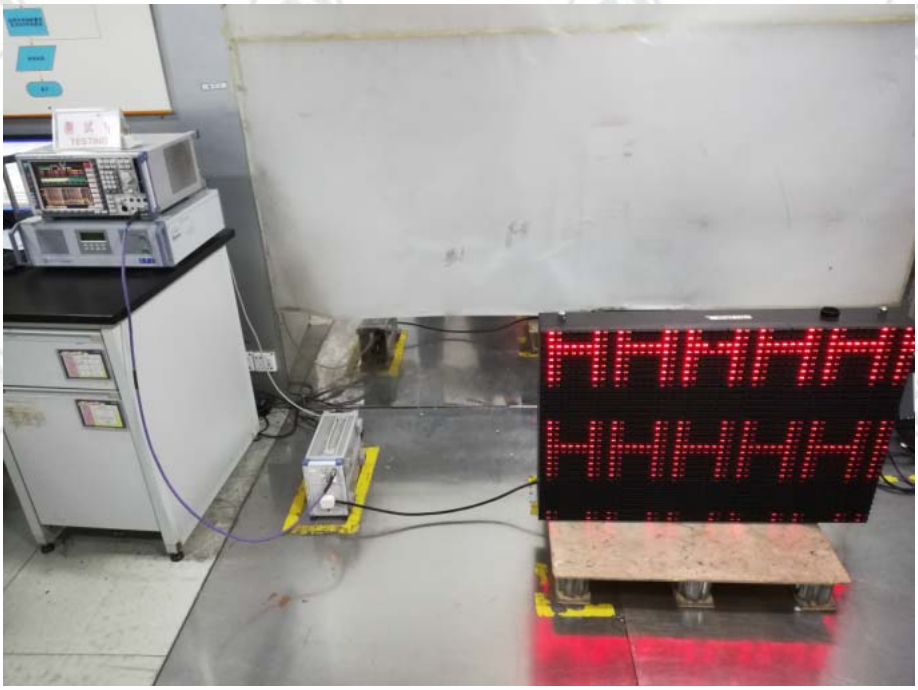
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	30.40	14.7	49.5	19.1	QP	100.0	206.00	VERTICAL
64.920000	26.30	12.2	49.5	23.2	QP	100.0	220.00	VERTICAL
125.060000	28.30	11.0	54.0	25.7	QP	100.0	360.00	VERTICAL
375.320000	37.20	16.4	56.9	19.7	QP	200.0	142.00	VERTICAL
450.980000	37.30	17.8	56.9	19.6	QP	100.0	180.00	VERTICAL
893.300000	33.10	24.7	56.9	23.8	QP	200.0	199.00	VERTICAL

Remark:
The highest frequency of the internal sources of the EUT is less than 108 MHz, so the measurement shall only be made up to 1 GHz.

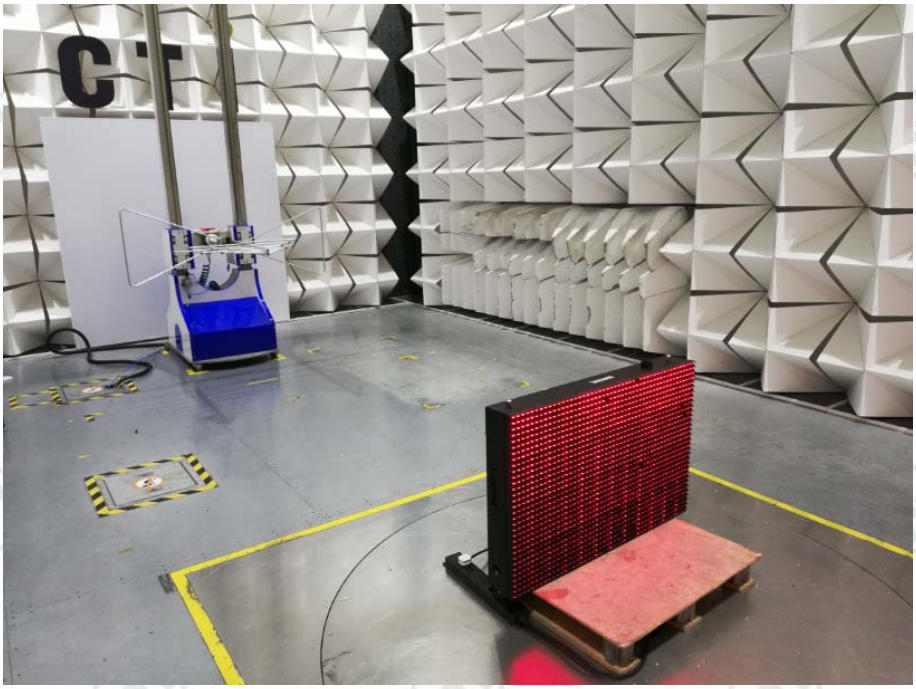
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP



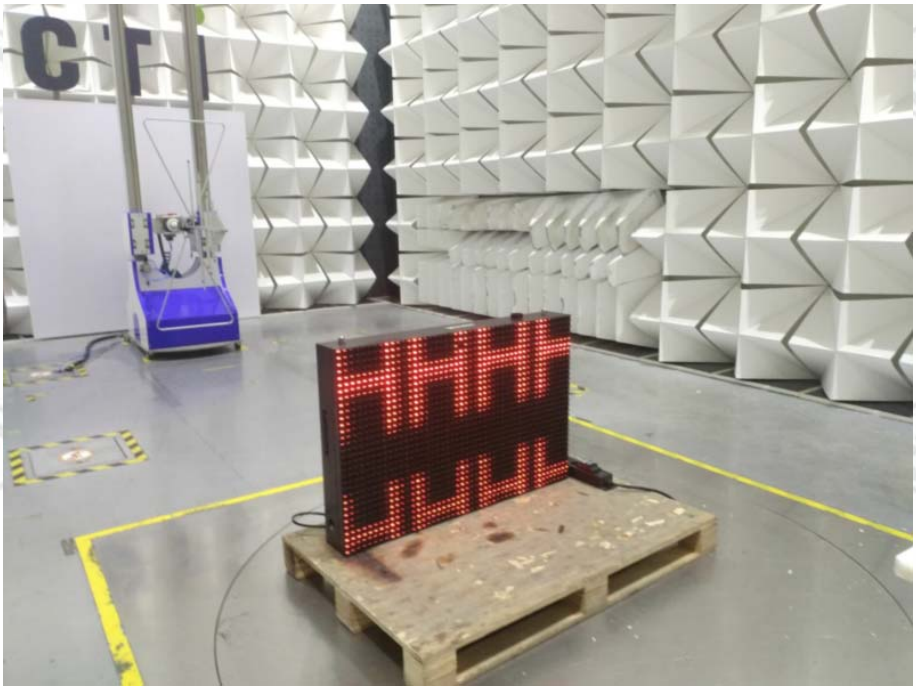
CONDUCTED EMISSION TEST SETUP-1



CONDUCTED EMISSION TEST SETUP-2



RADIATED EMISSION TEST SETUP-1

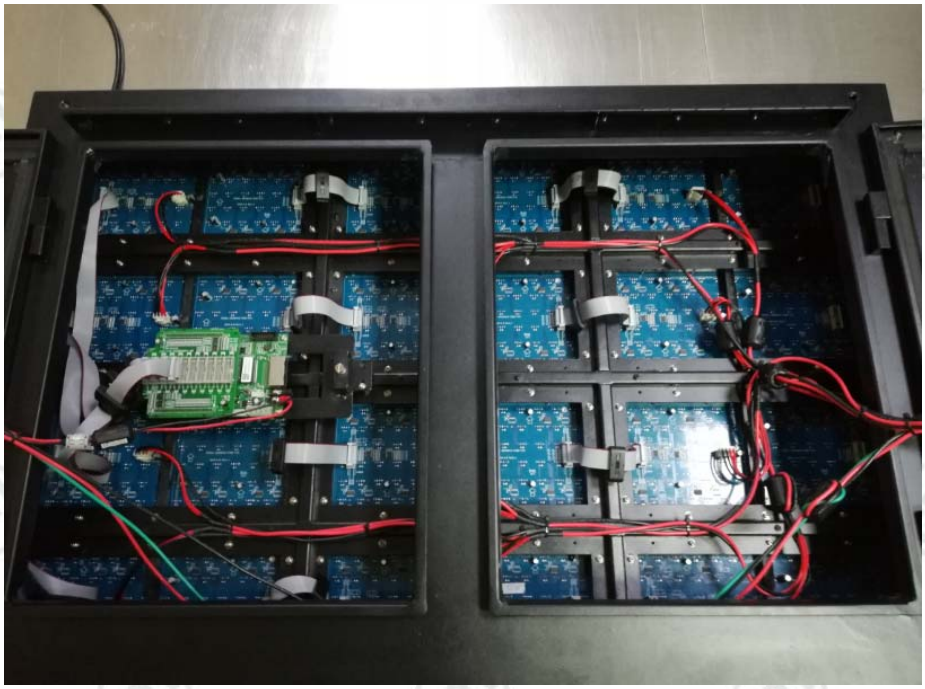


RADIATED EMISSION TEST SETUP-2

APPENDIX 2 PHOTOGRAPHS OF PRODUCT

View of Product-1

View of Product-2



View of Product-3

View of Product-4

*** End of Report ***

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