

# EMC TEST REPORT

<b>Project No.</b>	LBE20130162	<b>Revision No.</b>	NONE
<b>FCC ID</b>	A3LLT19C350		
<b>Applicant</b>	<b>Name of organization</b>	Samsung Electronics Co., Ltd.	
	<b>Address</b>	18600 Broad wick St. Rancho Dominguez CA 90220	
	<b>Date of application</b>	2013.01.09	
<b>EUT Equipment Under Test</b>	<b>Type of device</b>	Class B personal computers and peripherals	
	<b>Equipment authorization</b>	<input type="checkbox"/> Declaration of Conformity <input checked="" type="checkbox"/> Certification <input type="checkbox"/> Verification	
	<b>Kind of product</b>	<b>LED TV Monitor</b>	
	<b>Model No.</b>	<b>LT19C350</b>	
		<b>Variant Model No.</b>	None
<b>Manufacturer</b>	Tianjin Samsung Electronics Co., LTD. Weisi Rd. Micro-Electronic Industrial Park, Jingang Rd. Xiqing Dist, Tianjin, 300385 China		
<b>Applied Standards</b>	FCC Part 15, Subpart B class B		
	ANSI C63.4-2009		
<b>Test period</b>	2013.01.09 ~ 2013.01.11		
<b>Issue date</b>	2013.01.16		

**Test result : Complied**

The equipment under test has found to be compliant with the applied standards.  
 (Refer to the attached test result for more detail.)

**Tested by** : Jianlong Gao



**Reviewed by** : Xiao Li



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TSEC Wei 4 Road, Microelectronics Industrial Park, Jingang High way, Tianjin, China  
 Tel: 86 22 23961234, Fax: 86 22 23961234-5214

According to Sec. 2.1077, 47 CFR of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

<b>Equipment EUT Type</b>	Class B personal computers and peripherals
<b>Kind of product</b>	<b>LED TV Monitor</b>
<b>Trade Name</b>	Samsung Electronics
<b>Model</b>	<b>LT19C350</b>
<b>Applied Rules</b>	FCC Part 15, Subpart B Class B
	ANSI C63.4-2009
<b>Manufacturer</b>	Tianjin Samsung Electronics Co., LTD. Weisi Rd. Micro-Electronic Industrial Park, Jingang Rd. Xiqing Dist, Tianjin,300385 China

We hereby *declare that* the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission's requirements.

U.S. RESPONSIBLE PARTY	Samsung Electronics America QA Lab 18600 Broad wick St. Rancho Dominguez CA 90220
CONTACT PERSON	 <u>Mr. Peter Ra, Manager</u> E-Mail : <a href="mailto:raaaa@samsung.com">raaaa@samsung.com</a> Tel : 1-310-900-5250 Fax : 1-310-537-5500

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# 1. Summary of test results

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result	Remarks
<input checked="" type="checkbox"/>	Conducted Disturbance	FCC Part 15 Subpart B	Complied	Meets Class B Limit
<input checked="" type="checkbox"/>	Radiated Disturbance	ANSI C63.4-2009	Complied	Meets Class B Limit

- Note : These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

## 2. General Information

### 2.1 Test facility

The following firm has submitted the information required by Section 2.948 of the FCC Rules for measuring devices subject to Certification under Parts 15 & 18. The FCC takes no responsibility regarding the capability of this firm for performing the required measurements. Accordingly, this firm should not advertise or otherwise imply FCC approval of CSQAL.

CHINA SAMSUNG QUALITY ASSURANCE LABORATORY is LOCATED ON Block D, 17 - 19, Wei 4 Road, Microelectronics Industrial Park, Jingang Highway, Tianjin China.

Registration Number: 745769

E-mail Address: xiaoli@samsung.com

Phone Number: 86-22-2396-1234-5211

All testing are performed in Semi-anechoic chambers conforming to the site attenuation Characteristics defined by ANSI C63.4, CISPR 22, 16-1 and 16-2 and Shielded rooms.

CSQAL is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

### 3. Test Setup configuration

#### 3.1 Test Peripherals

The peripherals which were interconnected to the EUT during the test are as follows:

Item	Model No.	Serial No.	Manufacturer	Note
LED TV Monitor	LT19C350	-	Samsung	EUT
PC	DM-V200	ZLPZ9WAZ500828F	Samsung	-
USB Keyboard	SK-8185	CN-OY526K-71616-03K-001R-A00	Dell	-
USB Mouse	MOC5UO	J0F0217Q	Dell	-
Printer	ML-2545/XAA	Z6FJBACB60011N	Samsung	-

#### 3.2 EUT operating mode(s)

To achieve compliance applied standard specification, the following mode(s) were made during compliance testing:

Operating Mode 1	VGA IN
Operating Mode 2	HDMI IN 1
Operating Mode 3	HDMI IN 2

#### 3.3 Details of Sampling

Customer selected, single unit.

#### 3.4 Cable description

The type(s) of cables which were connected to the ports (of the EUT) are as follows:

No	Connect Cable	Length [m]	Ferrite core [Y/N]	Remark
1	VGA in	1.5	Y	To PC
2	HDMI in 1	1.5	Y	To PC
3	HDMI in 2	1.5	Y	To PC
4	USB	-	-	USB Memory
5	Component in	1.5	N	Termination
6	Audio in	1.5	Y	To PC
7	Ear phone	1.5	N	-
8	POWER	1.5	N	FOR EUT

### 3.5 EUT Description

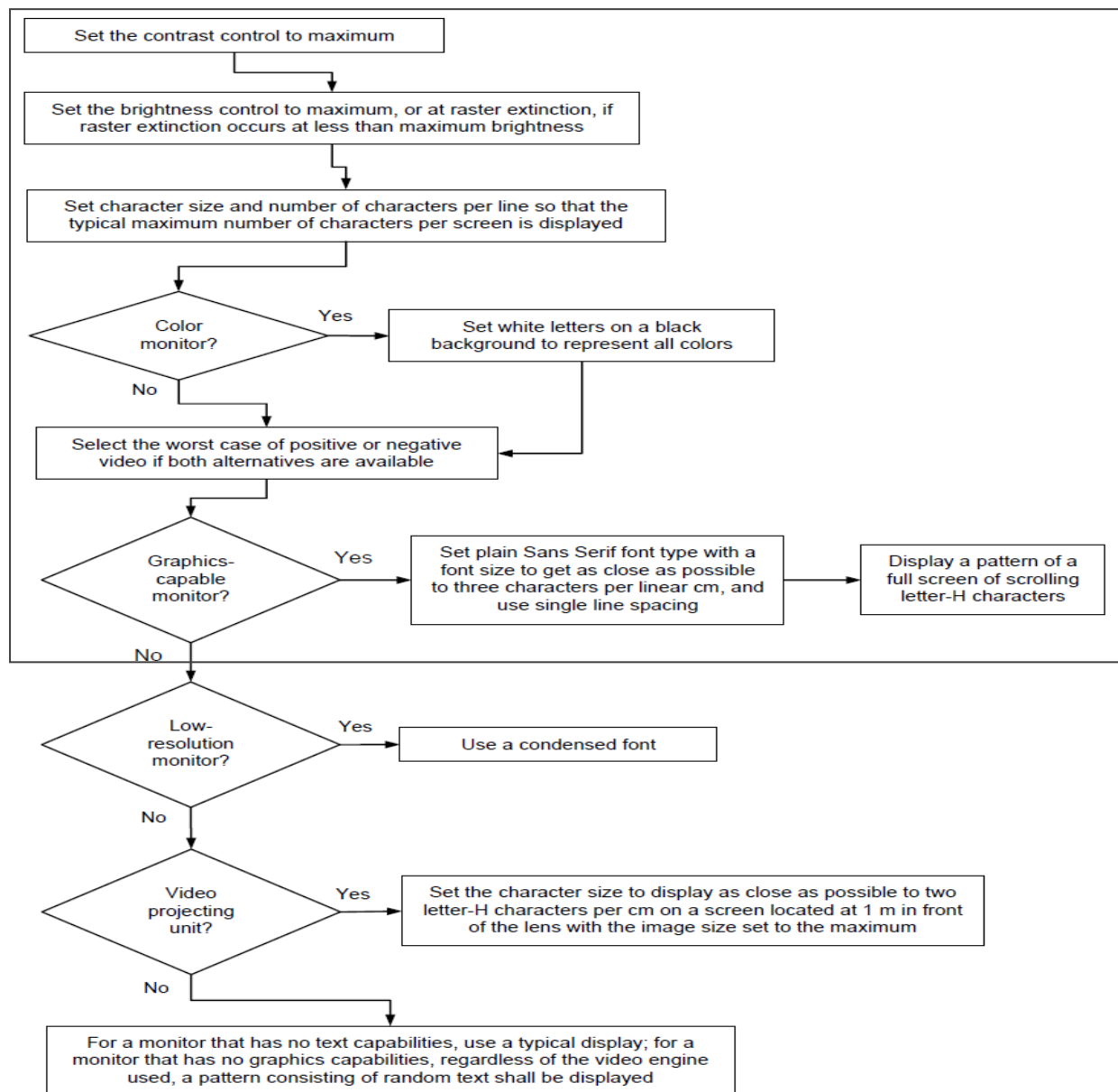
The following features describe EUT represented by this report:

Environmental considerations	Operating	Temperature : 32°F ~ 122°F (0°C ~ 50°C) Humidity : 10 % ~ 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing	
VESA Mounting Interface		100 mm x 100 mm	
Tilt		-1° (±1°) ~ 20° (±1°)	
Model Name		LT19C350	LT22C350
Screen Size (Diagonal)		18.5" Class	21.5" Class
Display Resolution		1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz
Sound (Output)		5W x 2	5W x 2
Dimensions (W x H x D)	(Without Stand)	445.7*275.8*86.8	507.6*310.2*86.8
	(With Stand)	445.7*371.0*190.0	507.6*408.0*190.0
Weight	(Without Stand)	2.45kg	3.3kg
	(With Stand)	2.8kg	3.7kg
Model Name		LT24C350	LT24C550
Screen Size (Diagonal)		23.6" Class	24" Class
Display Resolution		1920 x 1080 @ 60Hz	
Sound (Output)		5W x 2	5W x 2
Dimensions (W x H x D)	(Without Stand)	567.8*438.4*88.4	567.8*438.4*88.4
	(With Stand)	567.8*438.4*200	567.8*438.4*200
Weight	(Without Stand)	3.9kg	3.65 Kg
	(With Stand)	4.3kg	4.05Kg
Model Name		LT27C730	
Screen Size (Diagonal)		27" Class	
Display Resolution		1920 x 1080 @ 60Hz	
Sound (Output)		5W x 2	
Dimensions (W x H x D)	(Without Stand)	642.0*479.9*200	
	(With Stand)	642.0*387.3*89.7	
Weight	(Without Stand)	5.1kg	
	(With Stand)	5.5kg	

### 3.6 Description of the EUT exercising method

The EUT exercise program used during EMI testing was CSQAL standardized test program for MS Windows. The program repetitively sends a screen of H – Character to the display. Connect video output of computer on EUT's PC IN (D-sub) port and scrolled H – character continuously on EUT's screen.

The EUT system includes a monitor, the operational conditions shown as follows, within the selected area.



- Notes:**
1. Set the brightness control to maximum
  2. Set the contrast control to maximum
  3. Display a pattern of a full screen of scrolling letter-H characters with a font size to get as close as possible to three characters per linear cm and use single line spacing

### 3.7 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4 and UKAS Lab 34.)

Test type			Measurement uncertainty (C.L. 95 %, k = 2)
Disturbance voltage at the mains terminals			2.8 dB
Radiated Disturbance	Horizontal	30 MHz - 1 GHz	4.05 dB
	Vertical	30 MHz - 1 GHz	4.88 dB
	Horizontal	1GHz - 6 GHz	3.36 dB
	Vertical	1GHz - 6 GHz	3.36 dB

## 4. Results of individual test

### 4.1 Conducted disturbance

Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

The EUT measured in accordance with the methods described in standards.

#### Limits for conducted disturbance at the mains ports of class B ITE

Frequency range Limits MHz	Limits dB( $\mu$ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Note 1: 1  $\mu$ V is regarded as 0 dB.  
 Note 2: The limits shall decrease linearly with the logarithm of the frequency in the range 150 – 500 kHz.  
 Note 3: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector is unnecessary.  
 Note 4: The lower limit shall apply at the transition frequency.

If the reading on the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 seconds at each measurement frequency, the highest reading shall be recorded, with the exception of any brief isolated high reading (which shall be ignored).

Including the worst-case data points for each tested configuration.

#### 4.1.1 Test instrumentation

Test instrumentation used in the Conducted disturbance test was as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5CE	TOYO	V 4.7.10	N/A	N/A
Measuring receiver	ESCI	R&S	101027	2012.03.02	12
Artificial mains network	ENV216	R&S	101122	2012.08.23	12
Artificial mains network	ENV216	R&S	101059	2012.08.23	12
ISN	ISN T800	TESEQ	28602	2012.08.23	12
ISN	ISN T8-CAT6	TESEQ	27286	2012.03.02	12

## 4.1.2 Photograph of the test Configuration

(Front)



(Rear)



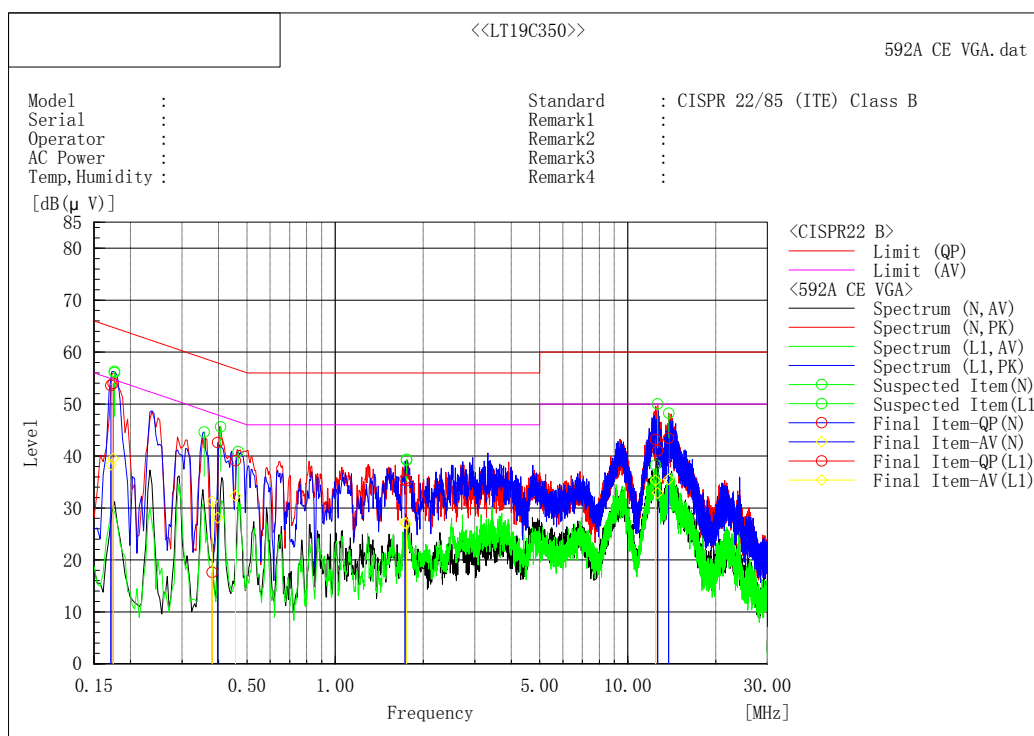
### 4.1.3 Test results

Test date	2013.01.11		Test engineer		Jianlong Gao	
Climate condition	Ambient temperature	23 °C	Relative humidity	27%	Atmospheric pressure	101.2 kPa
	Test place					
Shielded Room #2						

### 4.1.4 Test data

Set the brightness control to maximum, Set the contrast control to maximum  
 Scan three resolutions (800\*600@60Hz, 1280\*768@60Hz, 1366\*768@60Hz), then choose the worst one (1366\*768@60Hz) for final evaluation.

#### ■ Operating Mode: VGA IN



#### Final Result

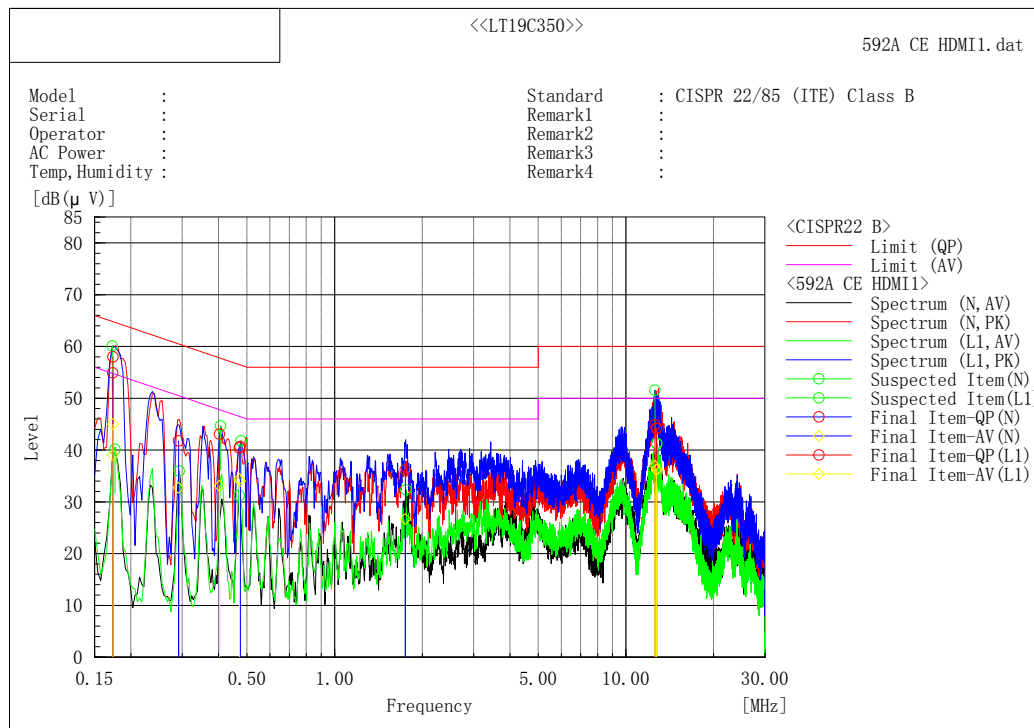
--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.17129	43.9	28.6	9.7	53.6	38.3	64.9	54.9	11.3	16.6	
2	0.39676	32.9	18.4	9.7	42.6	28.1	57.9	47.9	15.3	19.8	
3	12.65786	31.1	23.0	9.9	41.0	32.9	60.0	50.0	19.0	17.1	
4	13.79024	33.5	25.6	9.9	43.4	35.5	60.0	50.0	16.6	14.5	
5	1.73253	25.8	17.4	9.7	35.5	27.1	56.0	46.0	20.5	18.9	

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	12.44886	33.2	25.4	9.9	43.1	35.3	60.0	50.0	16.9	14.7	
2	0.17445	44.3	29.8	9.7	54.0	39.5	64.7	54.7	10.7	15.2	
3	0.37996	7.9	21.5	9.7	17.6	31.2	58.3	48.3	40.7	17.1	
4	1.75331	25.5	17.2	9.7	35.2	26.9	56.0	46.0	20.8	19.1	
5	0.45647	29.4	22.6	9.7	39.1	32.3	56.8	46.8	17.7	14.5	

■ Operating Mode:HDMI IN 1



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.17317	45.2	29.3	9.7	54.9	39.0	64.8	54.8	9.9	15.8	
2	0.47432	31.0	24.3	9.7	40.7	34.0	56.4	46.4	15.7	12.4	
3	12.73335	34.2	26.2	9.9	44.1	36.1	60.0	50.0	15.9	13.9	
4	0.29122	32.1	23.0	9.7	41.8	32.7	60.5	50.5	18.7	17.8	
5	1.74899	26.5	16.9	9.7	36.2	26.6	56.0	46.0	19.8	19.4	

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.17349	48.3	35.3	9.7	58.0	45.0	64.8	54.8	6.8	9.8	
2	0.4025	33.4	23.4	9.7	43.1	33.1	57.8	47.8	14.7	14.7	
3	12.57125	35.0	27.1	9.9	44.9	37.0	60.0	50.0	15.1	13.0	
4	12.74939	34.4	26.3	9.9	44.3	36.2	60.0	50.0	15.7	13.8	
5	0.47144	30.7	24.7	9.7	40.4	34.4	56.5	46.5	16.1	12.1	

Note) Level (Quasi-Peak and/or Average) = Meter Reading (Quasi-Peak and/or Average) + Factor (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

## 4.2 Radiated disturbance

Of those disturbances above ( $L - 20\text{dB}$ ), where  $L$  is the limit level in logarithmic units, record at least the disturbance levels and the frequencies of the six highest disturbances.

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin. All measurements were taken utilizing quasi-peak detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 3 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

Above 1GHz, peak detector function mode was used with resolution bandwidth of 1 MHz and a video bandwidth of 1 MHz. If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency range Limits MHz	Quasi-peak Limits (microvolts/meter)
	Class B
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Note 1: The lower limit shall apply at the transition frequency.  
 Note 2: Additional provisions may be required for cases where interference occurs.  
 Note 3: 1  $\mu\text{V/m}$  is regarded as 0 dB.

Measurements above 1GHz were performed at an antenna to EUT distance of 3 meters and elevated 1 to 4 meters in FAC. Both vertical and horizontal antenna polarizations were measured.

### Limits for radiated disturbance of ITE at a measuring distance of 3 m

Frequency range Limits MHz	Class A		Class B	
	Peak dB( $\mu\text{V/m}$ )	Average dB( $\mu\text{V/m}$ )	Peak dB( $\mu\text{V/m}$ )	Average dB( $\mu\text{V/m}$ )
1000 to 3000	76	56	70	50
3000 to 6000	80	60	74	54

Note 1: The lower limit shall apply at the transition frequency.

Including the worst-case data points for each tested configuration.

## 4.2.1 Test instrumentation

Test instrumentation used in the Radiated disturbance was as follows:

30MHz~1GHz

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5/RE	TOYO	V 4.7.10	N/A	N/A
Bi-con Antenna	CBL6112D	SCHAFFNER	29069	2011.04.04	24
EMI Receiver	ESCI	R&S	101026	2012.03.02	12
AMPLIFIER	310N	SONOMA	300911	2012.08.23	12
Ant Mast	MA4000	INNCO	-	N/A	N/A
Mast Controller	CO2000	INNCO	-	N/A	N/A
RF Selector	NS4900N	TOYO	-	N/A	N/A

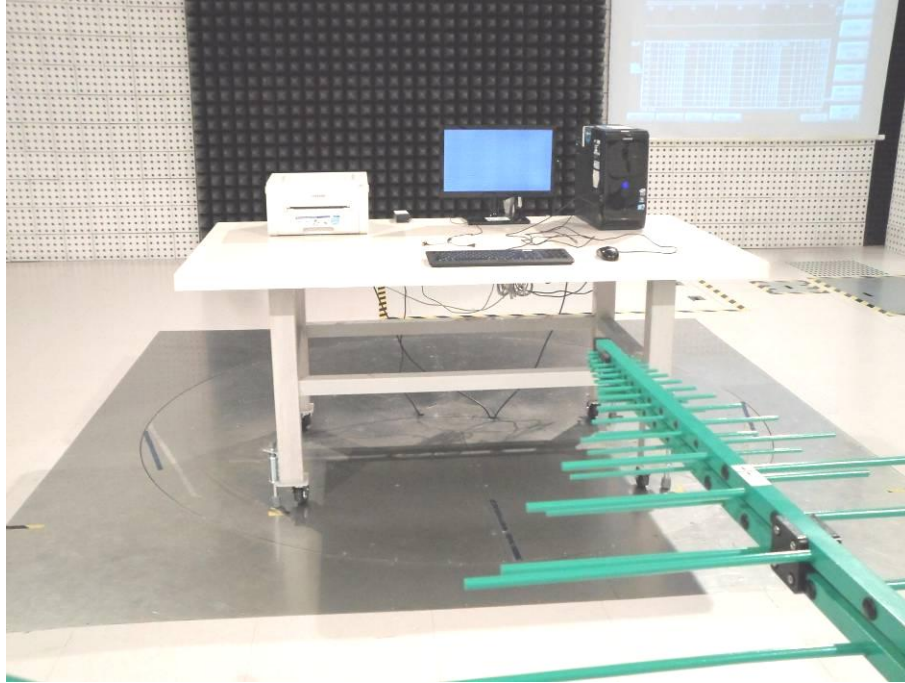
## 1GHz-5GHz

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5/RE	TOYO	V 4.7.10	N/A	N/A
Broad-Band Horn Antenna	BBHA9120B	Schwarzbeck	519	2011.04.05	24
EMI Receiver	ESU26	R&S	100243	2012.03.02	12
AMPLIFIER	AMF-4D-00500800-18-13P	TOYO	0934	2012.08.23	12
Ant Mast	MA4000	INNCO	-	N/A	N/A

## 4.2.2 Photograph of the test Configuration

30MHz~1GHz

(Front)

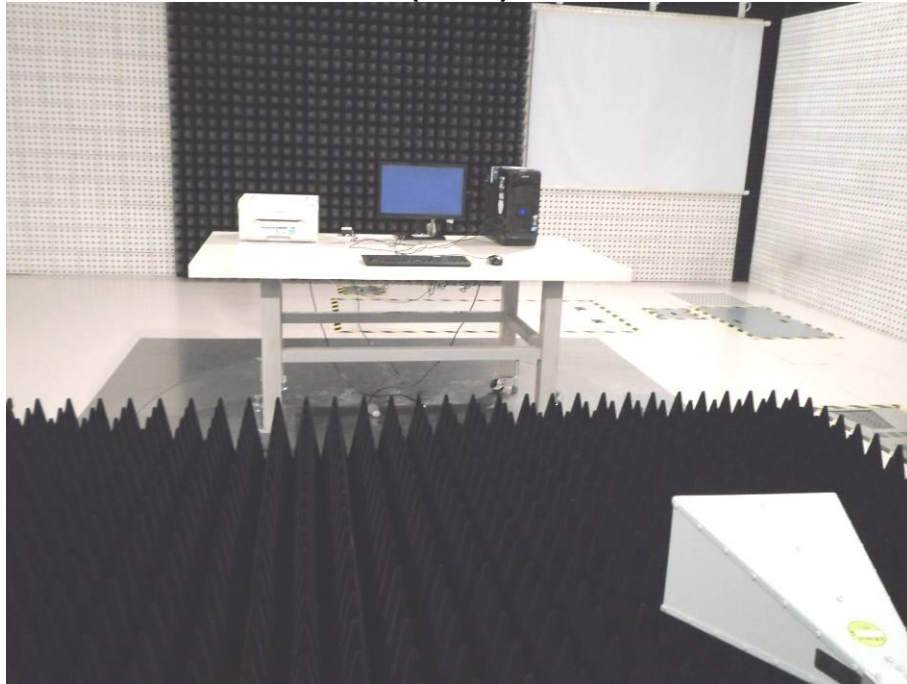


(Rear)

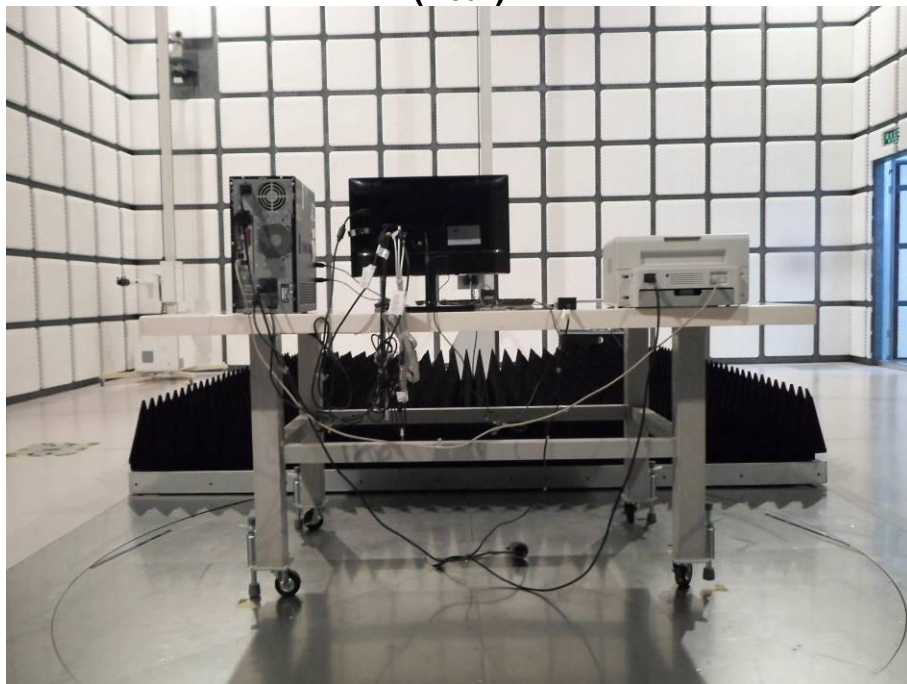


1GHz-5GHz

(Front)



(Rear)



## 4.2.3 Test results

### 30MHz~1GHz

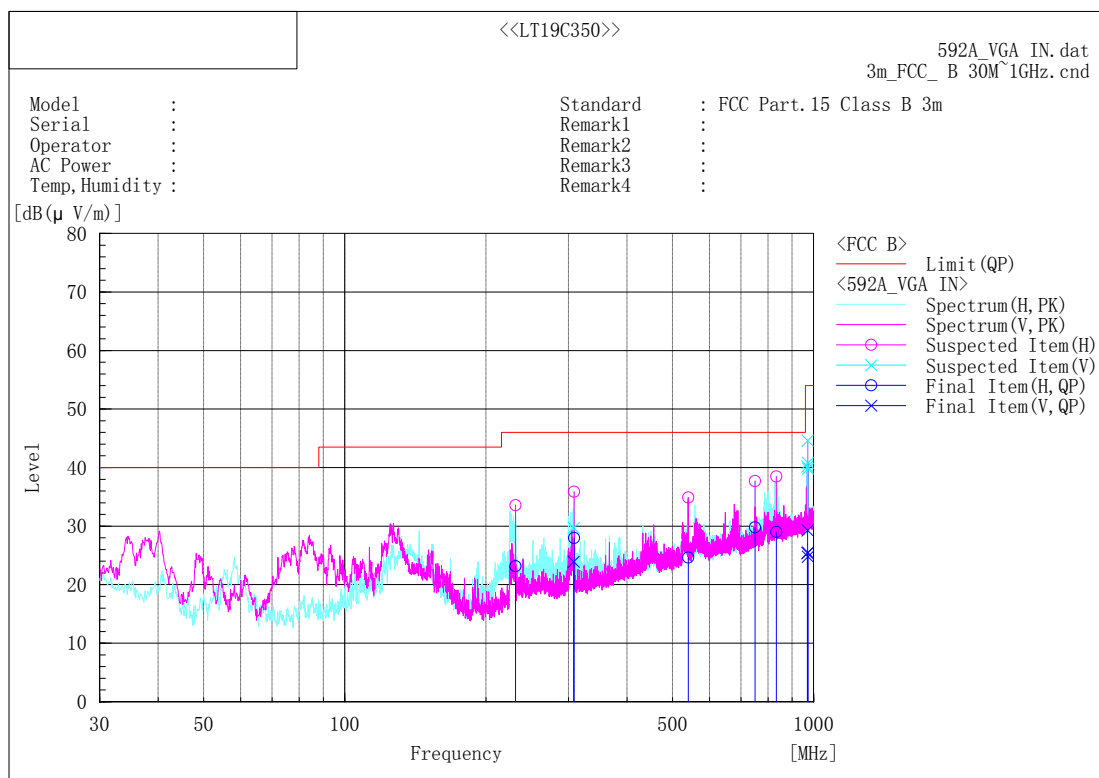
Test date	2013.01.09		Test engineer		Jianlong Gao	
Climate condition	Ambient temperature	25 °C	Relative humidity	30 %	Atmospheric pressure	101.3 kPa
Test place	3m Semi-Anechoic Chamber					

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800\*600@60Hz, 1280\*768@60Hz, 1366\*768@60Hz), then choose the worst one (1366\*768@60Hz) for final evaluation.

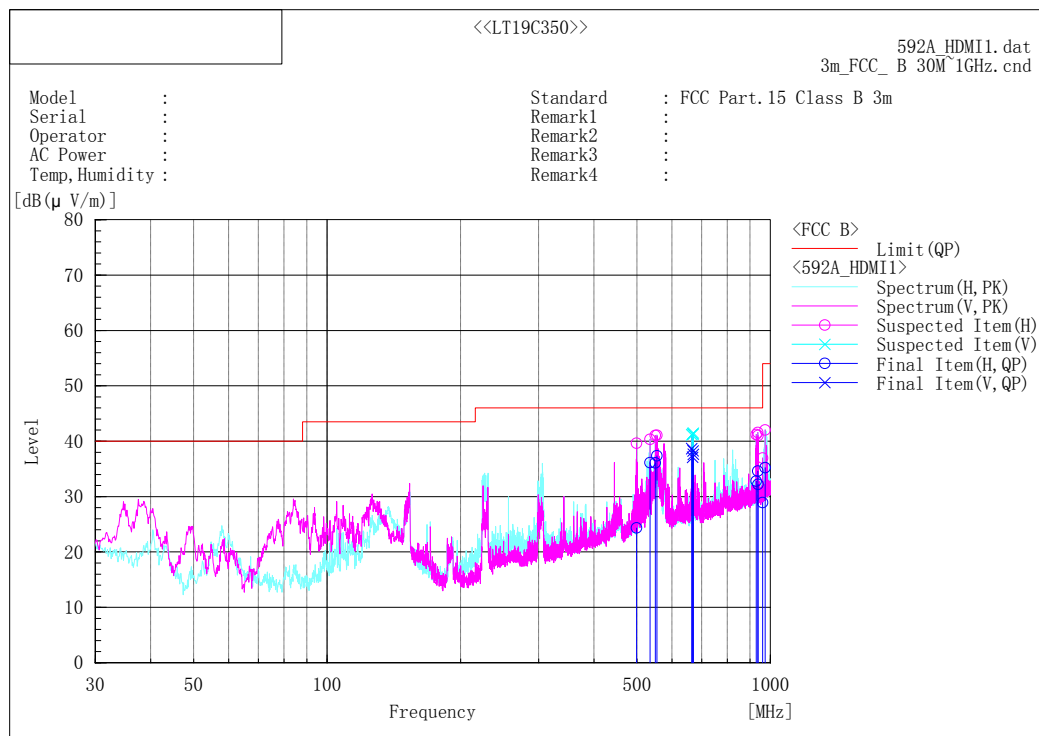
#### ■ Operating Mode: D-Sub (PC Video IN or Analog) IN Display



#### Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μ V)]	c. f [dB(1/m)]	Result QP [dB(μ V/m)]	Limit QP [dB(μ V/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	750.104	H	29.8	0.0	29.8	46.0	16.2	126.0	59.7	
2	832.554	H	28.1	0.9	29.0	46.0	17.0	116.0	187.7	
3	308.511	H	36.4	-8.4	28.0	46.0	18.0	100.0	236.5	
4	540.099	H	26.9	-2.3	24.6	46.0	21.4	100.0	307.7	
5	307.541	V	32.3	-8.4	23.9	46.0	22.1	200.0	305.5	
6	231.396	H	35.1	-11.9	23.2	46.0	22.8	100.0	116.7	
7	970.536	V	26.2	3.1	29.3	54.0	24.7	100.0	130.9	
8	971.870	V	22.3	3.2	25.5	54.0	28.5	100.0	18.9	
9	969.687	V	22.3	3.1	25.4	54.0	28.6	200.0	194.0	
10	971.385	V	21.6	3.2	24.8	54.0	29.2	200.0	37.8	

■ Operating Mode: HDMI 1 IN Display



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μ V)]	c. f [dB(1/m)]	Result QP [dB(μ V/m)]	Limit QP [dB(μ V/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	664.138	V	39.8	-1.1	38.7	46.0	7.3	196.0	0.2	
2	669.230	V	39.1	-0.9	38.2	46.0	7.8	201.0	0.3	
3	669.836	V	38.6	-0.9	37.7	46.0	8.3	201.0	0.3	
4	554.649	H	38.8	-1.4	37.4	46.0	8.6	100.0	80.0	
5	668.018	V	38.1	-1.0	37.1	46.0	8.9	201.0	0.3	
6	535.128	H	38.6	-2.5	36.1	46.0	9.9	200.0	117.1	
7	550.163	H	37.8	-1.7	36.1	46.0	9.9	100.0	80.0	
8	937.192	H	32.1	2.5	34.6	46.0	11.4	199.0	118.0	
9	929.069	H	30.5	2.3	32.8	46.0	13.2	301.0	207.3	
10	937.677	H	29.7	2.5	32.2	46.0	13.8	301.0	208.4	
11	973.082	H	32.0	3.2	35.2	54.0	18.8	199.0	329.8	
12	499.238	H	27.7	-3.4	24.3	46.0	21.7	301.0	306.8	
13	960.109	H	26.1	2.8	28.9	54.0	25.1	199.0	194.5	

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 3m, Antenna Height : 1 to 4 meters

Result (Quasi-Peak) = Reading QP + C.F (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

## 1GHz-5GHz

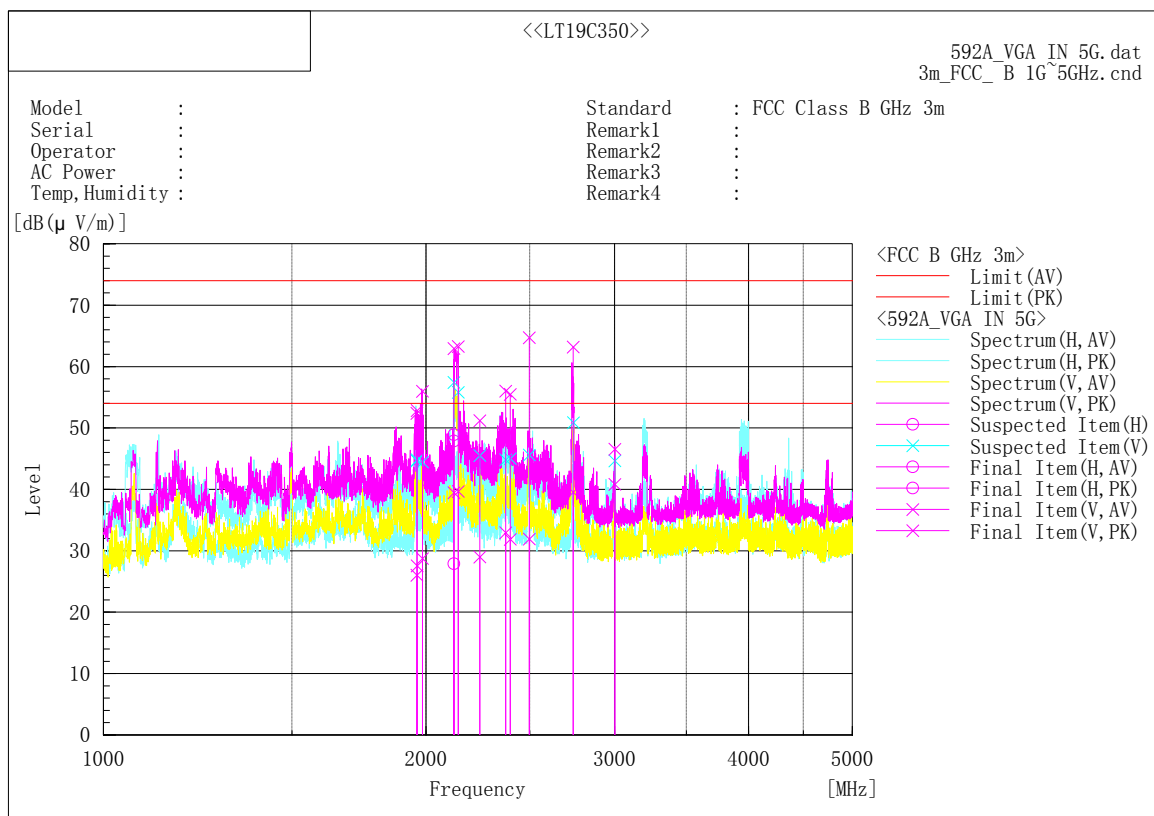
Test date	2013.01.10		Test engineer		Jianlong Gao	
Climate condition	Ambient temperature	24°C	Relative humidity	28%	Atmospheric pressure	101.5 kPa
Test place	3m modified semi-anechoic chamber					

Set the brightness control to maximum

Set the contrast control to maximum

Scan three resolutions (800\*600@60Hz, 1280\*768@60Hz, 1366\*768@60Hz), then choose the worst one (1366\*768@60Hz) for final evaluation.

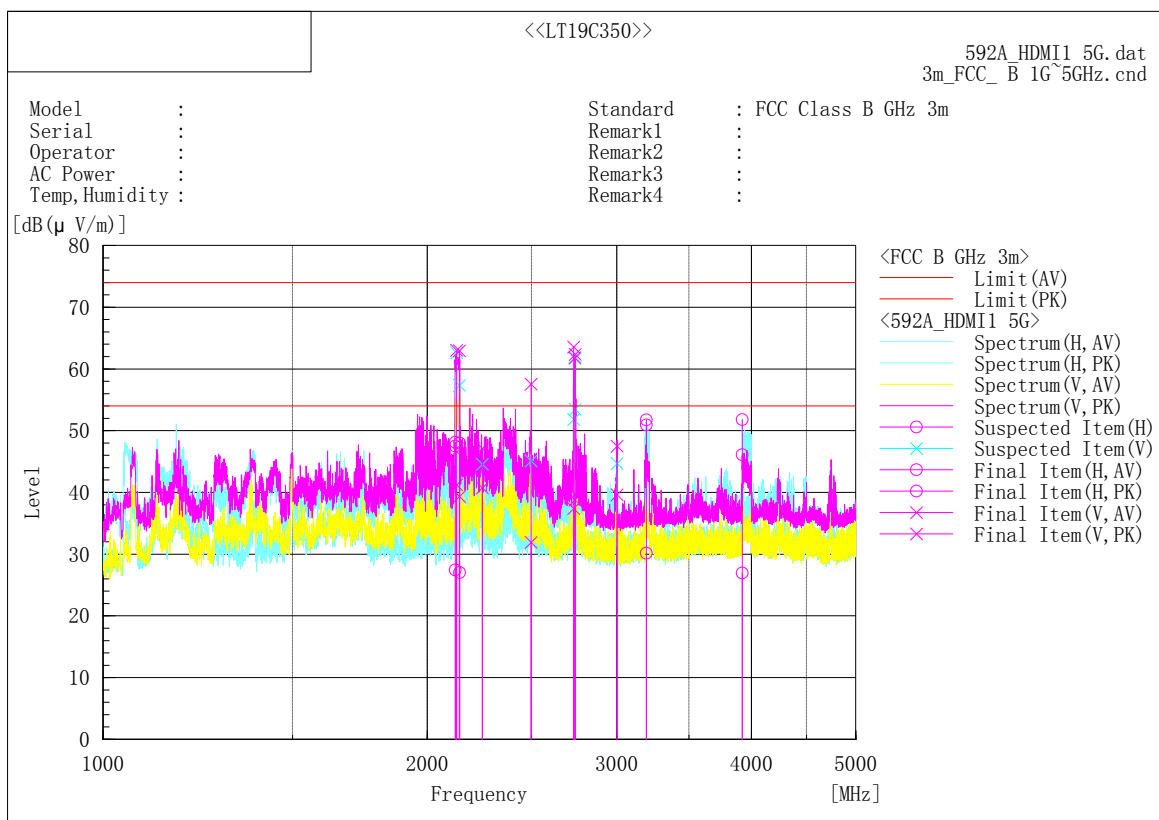
### ■ Operating Mode: D-Sub (PC Video IN or Analog) IN Display



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [°]	Remark
1	2496.500	V	44.8	77.6	-12.9	31.9	64.7	54.0	74.0	22.1	9.3	100.0	144.3	
2	2143.472	V	52.9	76.5	-13.2	39.7	63.3	54.0	74.0	14.3	10.7	105.0	174.7	
3	2744.946	V	51.7	75.3	-12.1	39.6	63.2	54.0	74.0	14.4	10.8	102.0	148.4	
4	2123.593	V	52.7	76.1	-13.2	39.5	62.9	54.0	74.0	14.5	11.1	100.0	171.4	
5	2373.500	V	46.2	69.2	-13.2	33.0	56.0	54.0	74.0	21.0	18.0	200.0	196.8	
6	1985.000	V	42.3	69.6	-13.6	28.7	56.0	54.0	74.0	25.3	18.0	100.0	196.8	
7	2397.000	V	45.1	68.7	-13.2	31.9	55.5	54.0	74.0	22.1	18.5	200.0	188.8	
8	1962.000	V	41.2	66.5	-13.6	27.6	52.9	54.0	74.0	26.4	21.1	100.0	205.4	
9	1961.000	V	39.6	66.0	-13.6	26.0	52.4	54.0	74.0	28.0	21.6	100.0	170.9	
10	2245.000	V	42.1	64.3	-13.1	29.0	51.2	54.0	74.0	25.0	22.8	200.0	129.3	
11	2124.000	H	41.1	62.1	-13.2	27.9	48.9	54.0	74.0	26.1	25.1	200.0	51.5	
12	3000.500	V	52.5	58.2	-11.7	40.8	46.5	54.0	74.0	13.2	27.5	100.0	11.3	

■ Operating Mode: HDMI IN 1 Display



Final Result

No.	Frequency [MHz]	(P)	Reading		c. f	Result		Limit		Margin		Height [cm]	Angle [°]	Remark
			AV [dB(μV)]	PK [dB(μV)]		AV [dB(μV/m)]	PK [dB(μV/m)]	AV [dB(μV/m)]	PK [dB(μV/m)]	AV [dB]	PK [dB]			
1	2142.738	V	52.6	76.1	-13.2	39.4	62.9	54.0	74.0	14.6	11.1	105.0	173.1	
2	2743.861	V	51.8	74.5	-12.1	39.7	62.4	54.0	74.0	14.3	11.6	101.0	148.4	
3	2735.878	V	49.5	75.7	-12.1	37.4	63.6	54.0	74.0	16.6	10.4	105.0	144.3	
4	2129.000	V	54.4	76.2	-13.2	41.2	63.0	54.0	74.0	12.8	11.0	100.0	176.9	
5	2743.500	V	50.9	73.8	-12.1	38.8	61.7	54.0	74.0	15.2	12.3	100.0	150.7	
6	3194.500	H	41.0	61.8	-10.9	30.1	50.9	54.0	74.0	23.9	23.1	100.0	184.8	
7	3923.000	H	37.2	56.3	-10.2	27.0	46.1	54.0	74.0	27.0	27.9	100.0	219.4	
8	2143.500	H	40.2	60.5	-13.2	27.0	47.3	54.0	74.0	27.0	26.7	200.0	249.9	
9	2124.000	H	40.6	61.3	-13.2	27.4	48.1	54.0	74.0	26.6	25.9	100.0	91.7	
10	2496.500	V	44.8	70.4	-12.9	31.9	57.5	54.0	74.0	22.1	16.5	100.0	145.7	
11	3000.500	V	51.3	59.2	-11.7	39.6	47.5	54.0	74.0	14.4	26.5	100.0	352.2	
12	2250.500	V	53.8	60.2	-13.1	40.7	47.1	54.0	74.0	13.3	26.9	100.0	3.5	

Note) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3m, Antenna Height : 1 to 4 meters

Result (Average) = Reading AV + C.F (Antenna Factor + Cable Loss - Amp. Gain)

Margin AV (Average) = Limit - Result AV

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## Appendix A – EUT photography

(Front)



(Rear)



(Panel )



(Board 1)



(Board 2)



(Adapter)



(Crystal)

