FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Shenyang Tongfang Multimedia Technology Co.,Limited

LED TV

Model Number: ELST3216H

FCC ID: 2ACWIELST3216H

Prepared for:	Shenyang Tongfang Multimedia Technology Co.,Limited					
	No. 10 Nanping East Road HunNan New District Shenyang,					
	LiaoNing, Province P. R. China					
Prepared By:	EST Technology Co., Ltd.					
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China					
Tel: 86-769-83081888-808						

Report Number:	ESTE-R1804040
Date of Test:	Apr. 10, 2018
Date of Report:	Apr. 16, 2018



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EST Technology Co., Ltd.

Applicant: Address:	Shenyang Tongfang Multimedia Technology Co.,Limited No. 10 Nanping East Road HunNan New District Shenyang, LiaoNing Province P.R. China
Manufacturer Address:	Shenyang Tongfang Multimedia Technology Co.,Limited No. 10 Nanping East Road HunNan New District Shenyang, LiaoNing Province P.R. China
E.U.T:	LED TV
Model Number:	ELST3216H
Power Supply:	AC 100-240V, 50/60Hz
Test Voltage:	AC 120V/60Hz, AC 240V/60Hz
Trade Name:	ELEMENT
Date of Receipt:	Apr. 02, 2018 Date of Test: Apr. 02-16, 2018
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2017 ANSI C63.10:2013
Test Result:	The device described above is tested by EST Technology Co., Ltd The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.
*	This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.
Prepared by:	Reviewed by: Approved by: Approved by:
Ring / Assistant	Tony / Engineer Iceman Hu / Manager
Other Aspects: None.	
Abbreviations: OK/P=pas	ssed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	LED TV
M. LINT I		EL ST221 CH
Model Number	:	ELST3216H
FCC ID	:	2ACWIELST3216H
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM)
		IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40: 2422 ~ 2452 MHz
Number of channel	:	IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT40 2422 ~ 2452 MHz: 7 Channels
Antenna	:	Internal antenna,2dBi gain
Sample Type	:	Prototype production



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2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207	PASS
Fower Line Conducted Emission	ANSI C63.10:2013	TASS
	FCC Part 15: 15.209	
Radiated Emission	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Band Edge Compliance	ANSI C63.10:2013	N/A
	KDB 558074	
	FCC Part 15: 15.247	N/A
Conducted spurious emissions	ANSI C63.10:2013	
	KDB 558074	
	FCC Part 15: 15.247	N/A
6dB Bandwidth	ANSI C63.10:2013	
	KDB 558074	
	FCC Part 15: 15.247	N/A
Peak Output Power	ANSI C63.10:2013	
	KDB 558074	
	FCC Part 15: 15.247	N/A
Power Spectral Density	ANSI C63.10:2013	
	KDB 558074	
Antenna requirement	FCC Part 15: 15.203	N/A
THE TENDER OF THE PROPERTY OF		•

Note: KDB 558074 D01 DTS Meas Guidance v04

Only the screen and appearance have been updated. All RF signal test data please

refer to "ED170531088E".



EST Technology Co. , Ltd

2.2. Test Facilities

EMC Lab	:	Certificated by CNAS, CHINA
		Registration No.: L5288
		Date of registration: November 13, 2017
		Certificated by A2LA, USA
		Registration No.: 4366.01
		Date of registration: November 07, 2017
		Certificated by FCC, USA
		Designation Number: CN1215
		Registration No.: 722932
		Date of registration: November 21, 2017
		Certificated by Industry Canada
		Registration No.: 9405A
		Date of registration: December 03, 2015
		Date of registration. December 03, 2013
		Certificated by VCCI, Japan
		Registration No.: R-13663; C-14103
		Date of registration: July 25, 2017
		This Certificate is valid until: July 24, 2020
		Certificated by TUV Rheinland, Germany
		Registration No.: UA 50195514 0001
		Date of registration: February 07, 2015
		Certificated by TUV/PS, Shenzhen
		Registration No.: SCN1017
		Date of registration: January 27, 2011
		Cortificated by Intertal ETI SEMKO
		Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L2-64
		Date of registration: April 28, 2011
		Date of Tegistration. April 26, 2011
		Certificated by Nemko, Hong Kong
		Registration No.: 175193
		Date of registration: May 4, 2011
Name of Firm	:	EST Technology Co., Ltd.
Site Location	•	Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Site Docution	·	Guangdong, China



2.3. Measurement uncertainty

Test Item	Uncertainty		
Uncertainty for Conduction emission test	±3.48dB		
Uncertainty for spurious emissions test	±4.60 dB(Polarize: H)		
(30MHz-1GHz)	±4.68 dB(Polarize: V)		
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.96dB		
Uncertainty for radio frequency	7×10 ⁻⁸		
Uncertainty for conducted RF Power	0.20dB		
Uncertainty for Power density test	0.26dB		

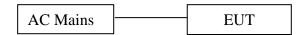
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.4. Assistant equipment used for test

2.4.1. N/A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Wi-Fi test mode by software before test.



(EUT: LED TV)



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2.6. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower	Center	Upper
	channel	channel	channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Transmitting			
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Receiving			
IEEE 802.11n HT40 Transmitting	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

2.7. Channel List

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20								
Channel	Channel	Frequency (MHz)						
1	2412	6	2437	11	2462			
2	2417	7	2442					
3	2422	8	2447					
4	2427	9	2452					
5	2432	10	2457					
	IEEE 802.11n HT40							
Channel	Frequency	Channal	Frequency	Channel	Frequency			
Chamilei	(MHz)	Channel	(MHz)	Chamiei	(MHz)			
3	2422	6	2437	9	2452			
4	2427	7	2442					
5	2432	8	2447					

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2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test Receiver	Rohde	ESHS30	832354	CEPREI	June 17,17	1 Year
	& Schwarz					
Artificial Mains Network	Rohde	ENV216	101260	CEPREI	June 17,17	1 Year
	& Schwarz					
Pulse Limiter	Rohde	ESH3-Z2	101100	CEPREI	June 17,17	1 Year
	& Schwarz					
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test	Rohde	ESR7	101780	CEPREI	June 17,17	1 Year
Receiver	& Schwarz					
Active Loop Antenna	SCHWARZB	FMZB1519	1519-038	CEPREI	October	1 Year
	ECK				08,17	
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test	Rohde	ESR7	101780	CEPREI	June 17,17	1 Year
Receiver	& Schwarz					
Bilog Antenna	Teseq	CBL 6111D	27090	CEPREI	June 08,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	BBHA912 0D1002		June 08,17	1 Year
Horn Antenna	SCHWARZB ECK	BBHA9170	BBHA917 0242	CEPREI	June 08,17	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	CEPREI	June 08,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	CEPREI	June 17,17	1 Year
PSA Series Spertrum Analyzer	Agilent	E4447A	MY50180 031	CEPREI	June 16,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.5. For connect EUT antenna terminal test

Equipment	Manufacturer	Model No.	Nerial No	Calibration Body	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	CEPREI	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211 139	CEPREI	June 17,17	1 Year



3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

	Maximum R	F Line Voltage
Frequency	Quasi-Peak Level	Average Level
	dB(µV)	$dB(\mu V)$
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

3.2. Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

3.3. Test Result

PASS.

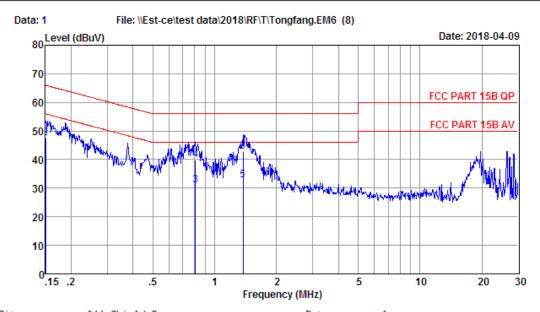


^{2.} The lower limit shall apply at the transition frequencies.

3.4. Test data

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Site no : 844 Shield Room Data no. : 1
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

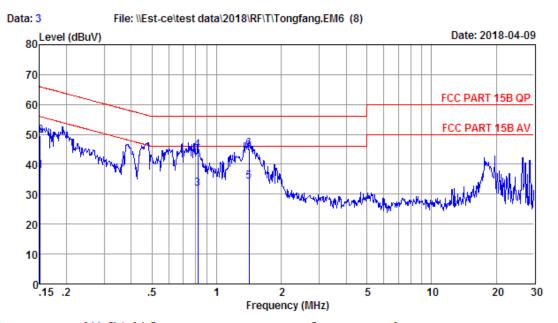
Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST3216H
Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.150	9.61	9.69	18.19	37.49	56.00	18.51	Average
2	0.150	9.61	9.69	28.19	47.49	66.00	18.51	QP
3	0.804	9.70	9.93	11.30	30.93	46.00	15.07	Average
4	0.804	9.70	9.93	20.30	39.93	56.00	16.07	QP
5	1.374	9.77	9.95	13.00	32.72	46.00	13.28	Average
6	1.374	9.77	9.95	23.00	42.72	56.00	13.28	QP

- 2. Margin= Limit Emission Level.
- If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no : 844 Shield Room Data no. : 3 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

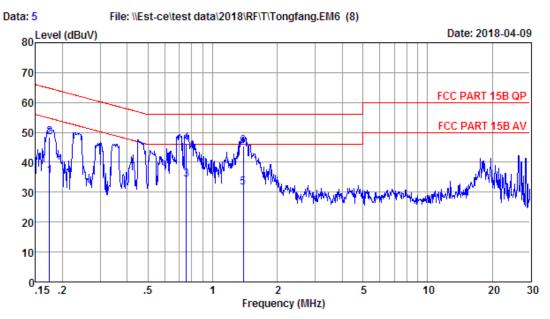
Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST3216H
Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.151	9.73	9.69	18.23	37.65	55.96	18.31	Average
2	0.151	9.73	9.69	30.23	49.65	65.96	16.31	QP
3	0.817	9.72	9.93	12.18	31.83	46.00	14.17	Average
4	0.817	9.72	9.93	25.18	44.83	56.00	11.17	QP
5	1.418	9.73	9.95	14.44	34.12	46.00	11.88	Average
6	1.418	9.73	9.95	25.44	45.12	56.00	10.88	QP

- 2. Margin= Limit Emission Level.
- If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no : 844 Shield Room Data no. : 5 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

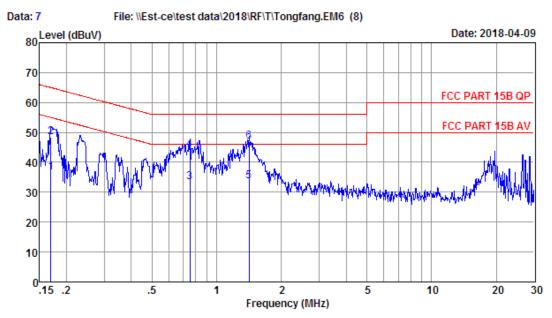
Engineer : Seven
EUT : LED TV
Power : AC 240V/60Hz
M/N : ELST3216H
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.174	9.73	9.77	15.91	35.41	54.77	19.36	Average
2	0.174	9.73	9.77	28.91	48.41	64.77	16.36	QP
3	0.755	9.72	9.93	14.62	34.27	46.00	11.73	Average
4	0.755	9.72	9.93	26.62	46.27	56.00	9.73	QP
5	1.388	9.73	9.95	11.84	31.52	46.00	14.48	Average
6	1.388	9.73	9.95	25.84	45.52	56.00	10.48	QP

- 2. Margin= Limit Emission Level.
- If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no : 844 Shield Room Data no. : 7
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL

: FCC PART 15B QP

Engineer : Seven : LED TV EUT : AC 240V/60Hz Power : ELST3216H M/N Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.169	9.61	9.69	17.25	36.55	54.99	18.44	Average
2	0.169	9.61	9.69	29.25	48.55	64.99	16.44	QP
3	0.751	9.70	9.93	13.78	33.41	46.00	12.59	Average
4	0.751	9.70	9.93	24.78	44.41	56.00	11.59	QP
5	1.418	9.77	9.95	14.08	33.80	46.00	12.20	Average
6	1.418	9.77	9.95	27.08	46.80	56.00	9.20	QP

- 2. Margin= Limit Emission Level.
- 3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



4 RADIATED EMISSION TEST

4.1 Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

15.209 Limit

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

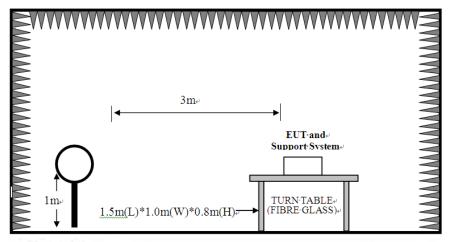
Remark : (1) Emission level $dB\mu V = 20 \log Emission$ level $\mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

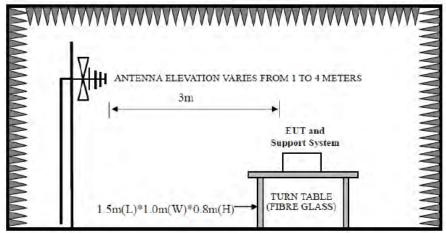


4.2. Block Diagram of Test setup

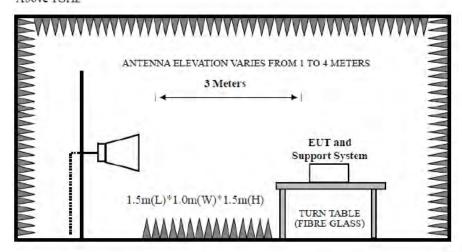
9kHz~30MHz



30~1000MHz



Above 1GHz





4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412MHz . 2422MHz . 2437 MHz . 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

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4.5. Test Data

9 kHz – 30 MHz

Pass

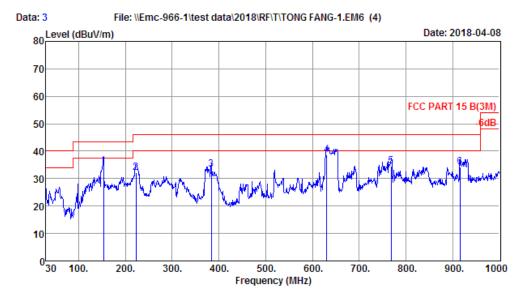
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



30-1000 MHz

EST Technology

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Site no : 1# 966 Chamber Data no. : 3

Env. / Ins. : Temp:27.3'; Humi:50%; Press:101.52kPa LINE Phase : VERTICAL

Limit : FCC PART 15 B(3M)

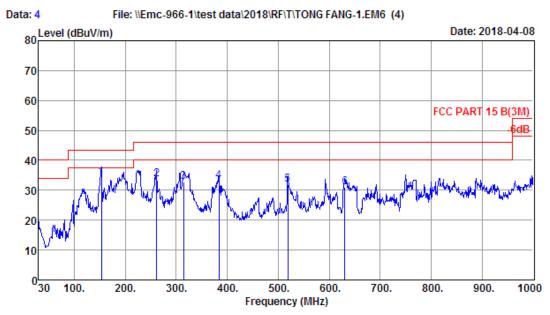
Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST3216H
Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	153.190	11.54	1.31	21.70	34.55	43.50	8.95	QP
2	223.030	9.98	1.67	20.62	32.27	46.00	13.73	QP
3	384.050	15.62	2.34	15.45	33.41	46.00	12.59	QP
4	630.430	20.80	3.35	14.52	38.67	46.00	7.33	QP
5	768.170	22.48	3.75	8.19	34.42	46.00	11.58	QP
6	915.610	24.15	4.11	5.95	34.21	46.00	11.79	QP

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no : 1# 966 Chamber Data no. : 4

Env. / Ins. : Temp:27.3'; Humi:50%; Press:101.52kPa LINE Phase : HORIZONTAL

Limit : FCC PART 15 B(3M)

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz
M/N : ELST3216H
Test Mode : TX Mode

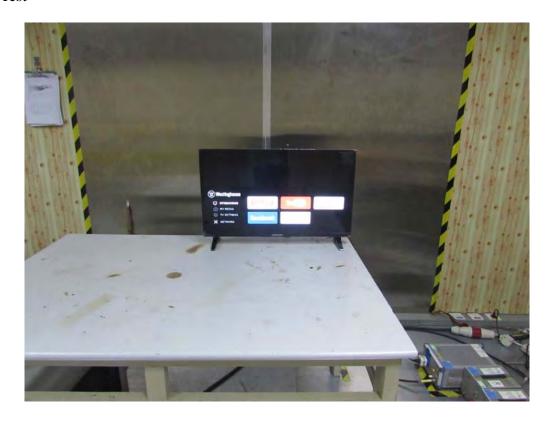
	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	153.190	11.54	1.31	21.31	34.16	43.50	9.34	QP
2	261.830	13.64	1.90	18.18	33.72	46.00	12.28	QP
3	314.210	14.02	2.11	16.75	32.88	46.00	13.12	QP
4	384.050	15.62	2.34	14.96	32.92	46.00	13.08	QP
5	518.880	18.68	2.94	10.29	31.91	46.00	14.09	QP
6	630.430	20.80	3.35	6.86	31.01	46.00	14.99	QP

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



5 TEST SETUP PHOTO

Conducted Test

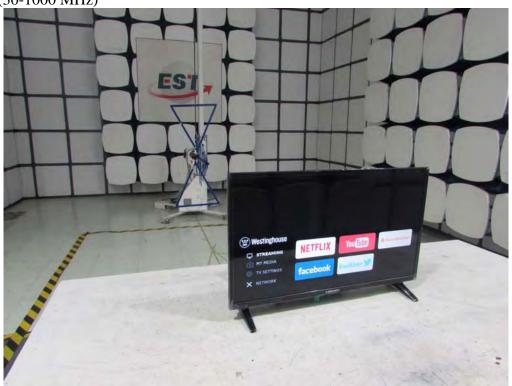






EST Technology Co. , Ltd

Radiated Test (30-1000 MHz)



6 PHOTOS OF EUT

External Photos M/N: ELST3216H







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External Photos M/N: ELST3216H







External Photos M/N: ELST3216H





External Photos M/N: ELST3216H





Internal Photos M/N: ELST3216H







Internal Photos M/N: ELST3216H



WiFi Antenna

