





Report Number...... ZKT-230506L3268E-1

Date of Test...... Apr. 25, 2023- May. 08, 2023

Date of issue...... May. 08, 2023

Total number of pages...... 38

Test Result : PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Applicant's name LG Display Co., Ltd.

Address LG TWIN TOWERS (EAST), 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea

Manufacturer's name: LG Display Co., Ltd.

Address LG TWIN TOWERS (EAST), 128, Yeoui-daero, Yeongdeungpo-gu,

Test specification:

Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2013

Test procedure....: /

Non-standard test method: N/A

Test Report Form No.....: TRF-EL-111_V0

Test Report Form(s) Originator....: ZKT Testing

Master TRF Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: ISS(interactive smart shelf)

Trademark LG Display

Model/Type reference...... LD290EJS-FPN2

Ratings..... Adapter Input:100-240V~50/60Hz
Adapter Output: DC12V, 3A

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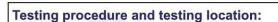












Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Industrial Avenue, Fuhai Street, Bao'an District,

Shenzhen, China

Tested by (name + signature)...... Jim Liu

Jackson Fang

Reviewer (name + signature)...... Tom Zou

Appleaved Applea

Approved (name + signature)..... Lake Xie

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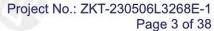




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7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS









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1.VERSION

Report No.	Version	Description	Approved
ZKT-230506L3268E-1	Rev.01	Initial issue of report	May. 08, 2023
6.5		(1)	100
		<u></u>	

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2. SUMMARY OF TEST RESULTS

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Test procedures according to the technical standards:

Judgment PASS	Remark		
1000 80 100000	Remark		
PASS			
PASS	686		
PASS	60		
Spurious Emission PASS			
	PASS PASS PASS		

NOTE:

(1)"N/A" denotes test is not applicable in this Test Report





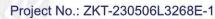












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2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an

District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299 IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % $^{\circ}$

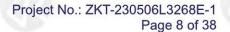
No.	Item	Uncertainty	
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB	
2	3m camber Radiated spurious emission(30MHz-1GHz) U=4.8dB		
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB	
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB	
5	Conducted disturbance	U=3.2dB	
6	RF Band Edge	U=1.68dB	
7	RF power conducted	U=1.86dB	
8	RF conducted Spurious Emission	U=2.2dB	
9	RF Occupied Bandwidth	U=1.8dB	
10	RF Power Spectral Density	U=1.75dB	
11	humidity uncertainty	U=5.3%	
12	Temperature uncertainty U=0.59°C		













3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	ISS(interactive smart shelf)
Model No.:	LD290EJS-FPN2
Model Different.:	N/A
Serial No.:	N/A
Hardware Version:	SCW3288-V2
Software Version:	Mid 7.1
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	Internal antenna
Antenna gain:	3.0dBi
Power supply:	Adapter Input:100-240V~50/60Hz
	Adapter Output: DC12V, 3A

Operation	n Frequency	each of ch	annel				245
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

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3.2 DESCRIPTION OF TEST MODES

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Transmitting mode	Keep the EUT in continuously transmitting mode	h
Charging mode	Keep the EUT in Charging mode.	9

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.

Test Software	ADB Test Tool
Power level setup	DEF

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted	Emission

DC Line	EUT

Radiated Emission

EUT	

Conducted Spurious

EUT	

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	ISS(interactive smart shelf)	LG Display	LD290EJS-FPN2	N/A	EUT
				400	
				P2 P2	

Item	Shielded Type	Ferrite Core	Length	Note
-4				
14			424	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length a column.

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Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Oct. 28, 2022	Oct. 27, 2023
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Oct. 28, 2022	Oct. 27, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	4.32	Oct. 28, 2022	Oct. 27, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 02, 2022	Nov. 01, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 01, 2022	Oct. 31, 2023
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Oct. 28, 2022	Oct. 27, 2023
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 01, 2022	Oct. 31, 2023
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	N/A	Nov. 15, 2022	Nov. 14, 2023
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	N/A	Oct. 28, 2022	Oct. 27, 2023
10	Amplifier (500MHz-40GHz)	全聚达	DLE-161	097	N/A	Oct. 28, 2022	Oct. 27, 2023
11	Test Cable	N/A	R-01	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
12	Test Cable	N/A	R-02	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
13	Test Cable	N/A	R-03	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
14	Test Cable	N/A	RF-01	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
15	Test Cable	N/A	RF-02	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
16	Test Cable	N/A	RF-03	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
17	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Oct. 21, 2022	Oct. 20, 2023
18	Signal Generator	Agilent	N5182A	N/A	A.01.87	Oct. 21, 2022	Oct. 20, 2023
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 15, 2022	Nov. 14, 2023
20	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Oct. 28, 2022	Oct. 27, 2023
21	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	1	1
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	1 22	١
24	RF Software	MW	MTS8310	V2.0.0.0	N/A	1	1
25 26	Turntable Antenna tower	MF MF	MF-7802BS MF-7802BS	N/A N/A	N/A N/A	1	1

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Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Oct. 21, 2022	Oct. 20, 2023
2	LISN	CYBERTEK	EM5040A	E185040014 9	N/A	Oct. 21, 2022	Oct. 20, 2023
3	Test Cable	N/A	C-01	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
4	Test Cable	N/A	C-02	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
5	Test Cable	N/A	C-03	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 28, 2022	Oct. 27, 2023
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
3	Absorbing Clamp	DZ	ZN23201	15034	N/A	Oct. 31, 2022	Oct. 30, 2023
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	1

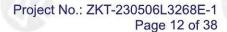
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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

EDEOLIENCY (MH-)	Limit (d	Standard	
FREQUENCY (MHz)	Quas-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation















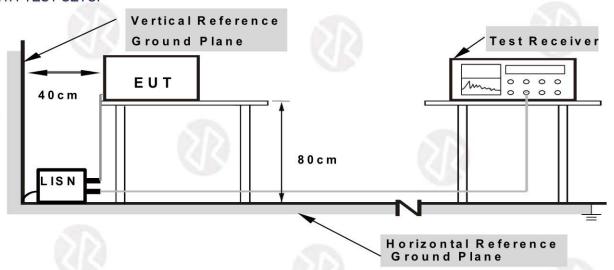








4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to Charging during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

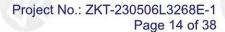
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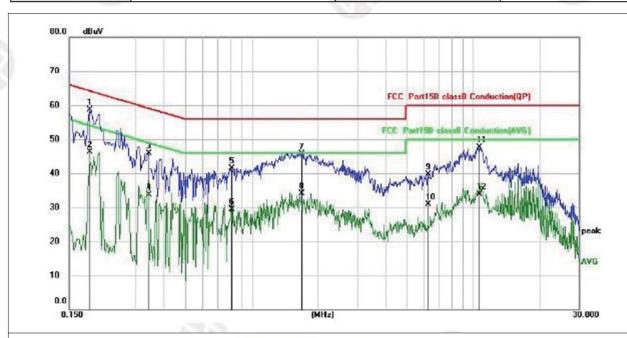






4.1.6 Test Result

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L D
Test Voltage:	AC 120V/60Hz		67.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1859	48.67	10.01	58.68	64.22	-5.54	QP
2		0.1859	36.36	10.01	46.37	54.22	-7.85	AVG
3		0.3420	35.97	9.99	45.96	59.15	-13.19	QP
4		0.3420	23.80	9.99	33.79	49.15	-15.36	AVG
5		0.8100	31.44	9.98	41.42	56.00	-14.58	QP
6		0.8100	19.54	9.98	29.52	46.00	-16.48	AVG
7		1.6817	35.76	10.01	45.77	56.00	-10.23	QP
8		1.6817	24.15	10.01	34.16	46.00	-11.84	AVG
9		6.2419	29.52	10.21	39.73	60.00	-20.27	QP
10		6.2419	20.79	10.21	31.00	50.00	-19.00	AVG
11		10.6456	37.40	10.36	47.76	60.00	-12.24	QP
12		10.6456	23.51	10.36	33.87	50.00	-16.13	AVG

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.Mesurement Level = Reading level + Correct Factor

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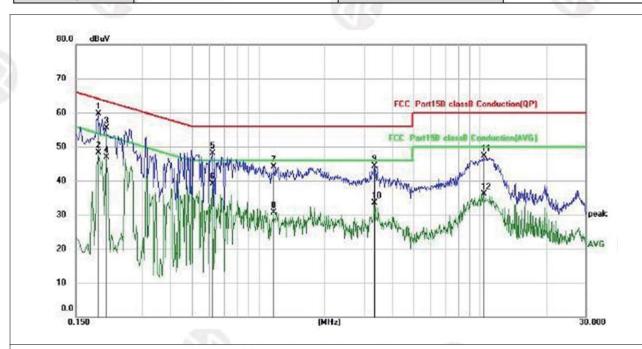








Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	/	7/17/4



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1900	49.61	10.01	59.62	64.04	-4.42	QP
2		0.1900	38.33	10.01	48.34	54.04	-5.70	AVG
3		0.2058	45.52	10.00	55.52	63.37	-7.85	QP
4		0.2058	36.95	10.00	46.95	53.37	-6.42	AVG
5	-	0.6219	38.12	9.97	48.09	56.00	-7.91	QP
6		0.6219	29.19	9.97	39.16	46.00	-6.84	AVG
7		1.1774	34.09	9.99	44.08	56.00	-11.92	QP
8		1.1774	20.80	9.99	30.79	46.00	-15.21	AVG
9		3.3380	34.13	10.09	44.22	56.00	-11.78	QP
10		3.3380	23.45	10.09	33.54	46.00	-12.46	AVG
11		10.3619	36.96	10.36	47.32	60.00	-12.68	QP
12		10.3619	25.69	10.36	36.05	50.00	-13.95	AVG

Notes:

1.An initial pre-scan was performed on the line and neutral lines with peak detector.

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- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

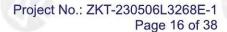
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Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013	1.0.						
Test Frequency Range:	9kHz to 25GHz Measurement Distance: 3m							
Test site:								
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak			
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak			
	Peak		1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz	Average			

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

EDEOLIENCY (MH-)	Limit (dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

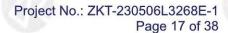
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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

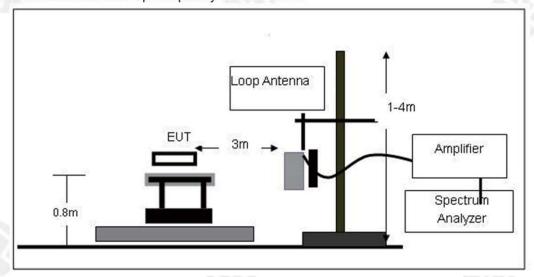
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



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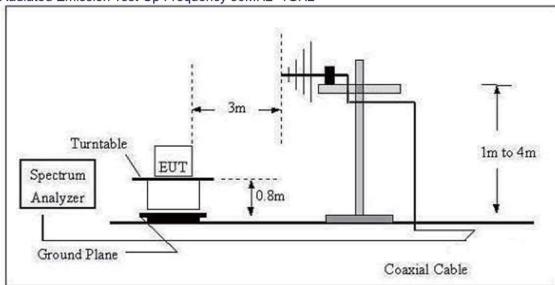




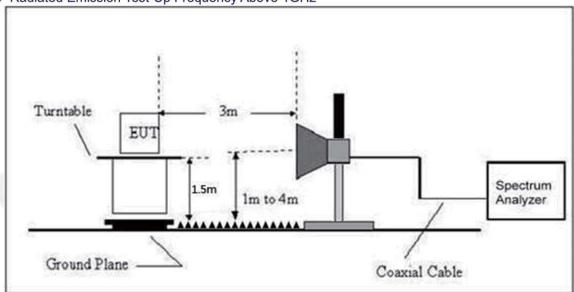




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS (Between 9KHz - 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

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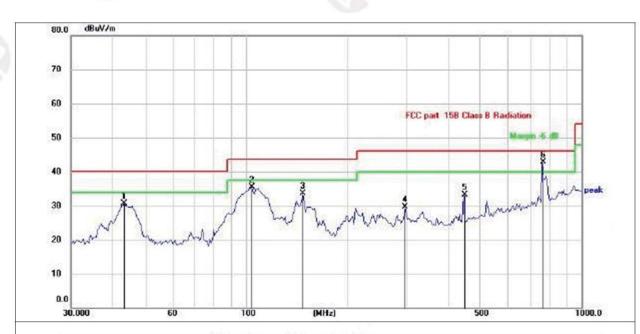






Between 30MHz - 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	V2 V2	6/2



No.	Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		43.3534	37.17	-6.52	30.65	40.00	-9.35	QP
2		104.1701	44.71	-9.30	35.41	43.50	-8.09	QP
3	n i	147.9214	39.23	-5.47	33.76	43.50	-9.74	QP
4		298.2681	35.22	-5.55	29.67	46.00	-16.33	QP
5	. 3	446.4141	34.66	-1.40	33.26	46.00	-12.74	QP
6	*	762.0385	37.76	5.05	42.81	46.00	-3.19	QP

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