



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Applicant: Chelong Electronics Technology Co.,Ltd

Floor6, building C, Huahui property,

**Address: Liuxiandong industrial park, Xili, Nanshan district,
Shenzhen, China**

Product Name: Wireless TFT LCD Monitor

Model Name: CL-718W

Brand Name: Nil

FCC ID: 2AE9YCL-718W

Report No.: MTE/DYY/A15080947

Date of Issue: Aug. 04, 2015

Issued by: Most Technology Service Co., Ltd.

**Address : No.5, Langshan 2nd Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China**

Tel : 86-755-8617 0306

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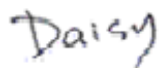
1. VERIFICATION OF CONFORMITY

Equipment Under Test: Wireless TFT LCD Monitor
Brand Name: Nil
Model Number: CL-718W
Series Number: N/A
Description of Differences: N/A
FCC ID: 2AE9YCL-718W
Applicant: Chelong Electronics Technology Co.,Ltd
Floor 6, building C, Huahui property, Liuxiandong industrial park, Xili,
Nanshan district, Shenzhen, China
Manufacturer: Chelong Electronics Technology Co.,Ltd
Floor 6, building C, Huahui property, Liuxiandong industrial park, Xili,
Nanshan district, Shenzhen, China
Technical Standards: 47 CFR Part 15 Subpart C
File Number: MTE/DYY/A15080947
Date of test: Jul. 16-30, 2015
Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by MOST for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):



Daisy Yu Jul. 16-30, 2015

Review by (+ signature):



Henry Chen Aug. 04, 2015



Approved by (+ signature):



Yvette Zhou (Manager) Aug. 04, 2015

2. GENERAL INFORMATION

2.1 Product Information

Product:	Wireless TFT LCD Monitor
Trade Name:	Nil
Model Number:	CL-718W
Series Number:	N/A
Description of Differences:	N/A
Power Supply:	DC 12V by DC Source
Frequency Range:	2402MHz -2480MHz
Modulation Type:	GFSK
Antenna Type:	External antenna
Antenna Gain:	0dBi
Channel Number:	19
Temperature Range:	-20°C ~ +65°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

Perform FCC Part 15 Subpart C tests for FCC Marking.

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.249(a) (d)	Spurious Emission	PASS	2015-07-16
2	15.207	Power Line Conducted Emission Test	N/A	---
3	15.249	20dB Bandwidth	PASS	2015-07-30
4	15.203	Antenna Requirement	PASS	2015-07-16

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

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

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, Providing a level of confidence of approximately 95%

- Uncertainty of Conducted Emission, $U_c = \pm 1.8\text{dB}$
- Uncertainty of Radiated Emission, $U_c = \pm 3.2\text{dB}$

3. TEST FACILITY

3.1 TEST FACILITY

Test Site:	Most Technology Service Co., Ltd.
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong ,China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014 and CISPR 16 requirements. The FCC Registration Number is 490827. The IC Registration Number is 7103A-1. The CNAS Registration Number is CNAS L3573.
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4:2014 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna.

3.2 Test Conditions

The EUT has been tested under normal operating (TX) .

The field strength of radiation emission was measured in the following position: EUT lie-down position (X axis).

The following data show X axis setup.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

3.3 Channel List

Channel List for GFSK Mode					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402MHz	14	2430MHz	28	2458MHz
01	2404MHz	15	2432MHz	29	2460MHz
02	2406MHz	16	2434MHz	30	2462MHz
03	2408MHz	17	2436MHz	31	2464MHz
04	2410MHz	18	2438MHz	32	2466MHz
05	2412MHz	19	2440MHz	33	2468MHz
06	2414MHz	20	2442MHz	34	2470MHz
07	2416MHz	21	2444MHz	35	2472MHz
08	2418MHz	22	2446MHz	36	2474MHz
09	2420MHz	23	2448MHz	37	2476MHz
10	2422MHz	24	2450MHz	38	2478MHz
11	2424MHz	25	2452MHz	39	2480MHz
12	2426MHz	26	2454MHz		
13	2428MHz	27	2456MHz		

3.4 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level, Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively

Pre-test Mode	Description
Mode 1	GFSK CH01/CH19/CH39

Note:

The measurements are performed at the highest, middle, lowest available channels.

3.5 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level, the RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Mouse

Test software Version	Test channels		
GFSK Mode	2402MHz	2440MHz	2480MHz

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 8.3.1 of ANSI C63.4:2009.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.3 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

3.6 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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	2655 - 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)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2015/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2015/03/10	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2015/03/07	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2015/03/14	1 Year
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2015/03/14	1 Year
10	Horn Antenna	Penn Engineering	9034	8376	2015/03/14	1 Year
11	Cable	Resenberger	N/A	NO.1	2015/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.2	2015/03/07	1 Year
13	Cable	SchwarzBeck	N/A	NO.3	2015/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07	1 Year
15	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
16	Loop antenna	ARA	PLA-1030/B	1039	2015/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15C 15.249 Requirements

5.1 Spurious Emission Test

5.1.1 Requirement

According to FCC section 15.249(a):

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

According to FCC section 15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

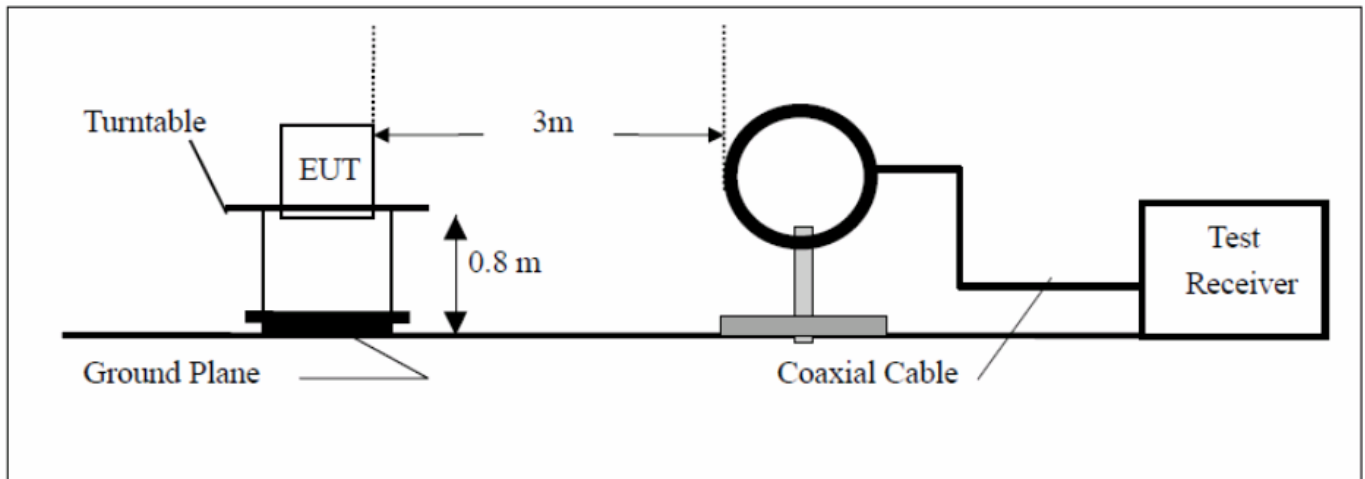
In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

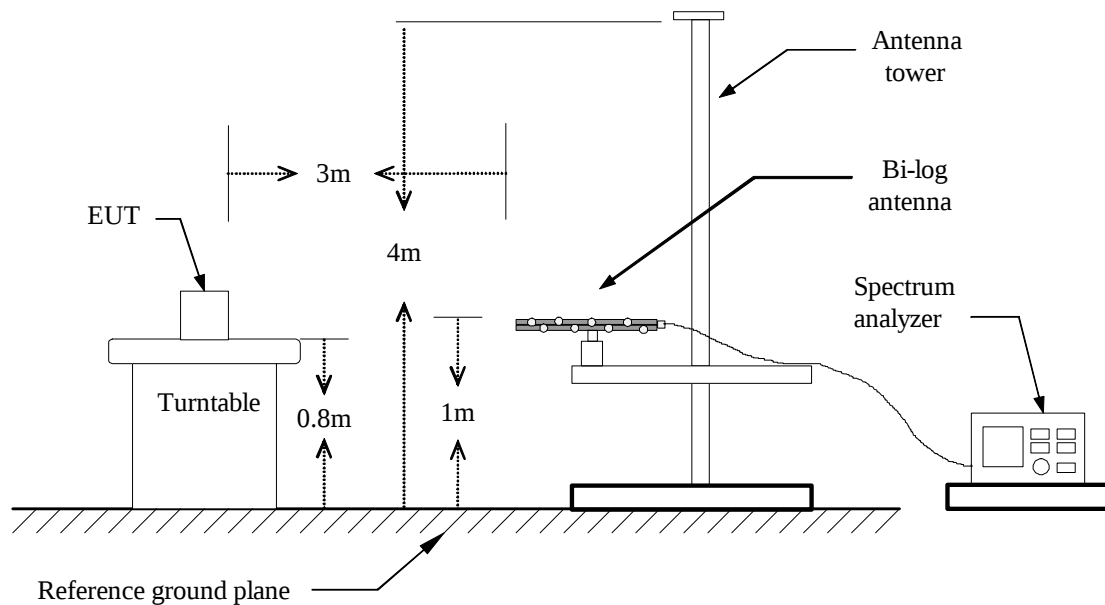
5.1.2 Test Description

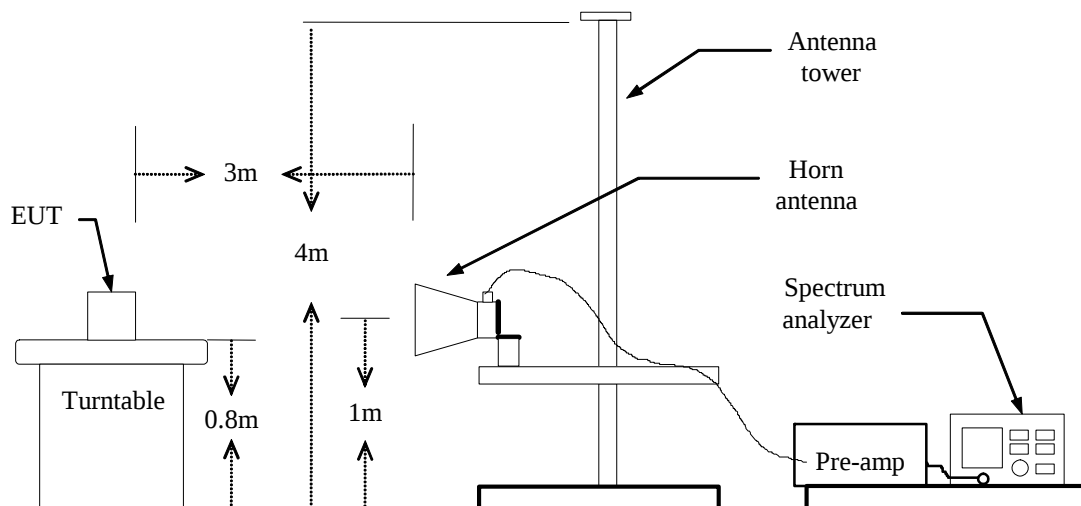
Test Setup:

From 9KHz to 30MHz:



From 30MHz to 1GHz:



Above 1GHz:**5.1.3 Test Description**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
 Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO
 Above 1GHz PEAK: RBW=VBW=1MHz / Sweep=AUTO
 AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

5.1.4 Test Result

From 9 KHz to 30MHz:

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
N/A	H								>20
N/A	V								>20

-Note: No test data was detected in below 30MHz.

From 30MHz to 1GHz:

The following test mode(s) were scanned during the preliminary test:

Preliminary Radiated Emission Test				
Frequency Range Investigated		9KHz TO 25 GHz		
Mode of operation	Date	Report No.	Data#	Worst Mode
GFSK	2015-07-16	MTE/DYY/A15080947	CL-718W-D	☒

Note:

The GFSK Low channel modulation type was the worst case condition, The worse test data was shown on the summary data page.

Below 1 GHz



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

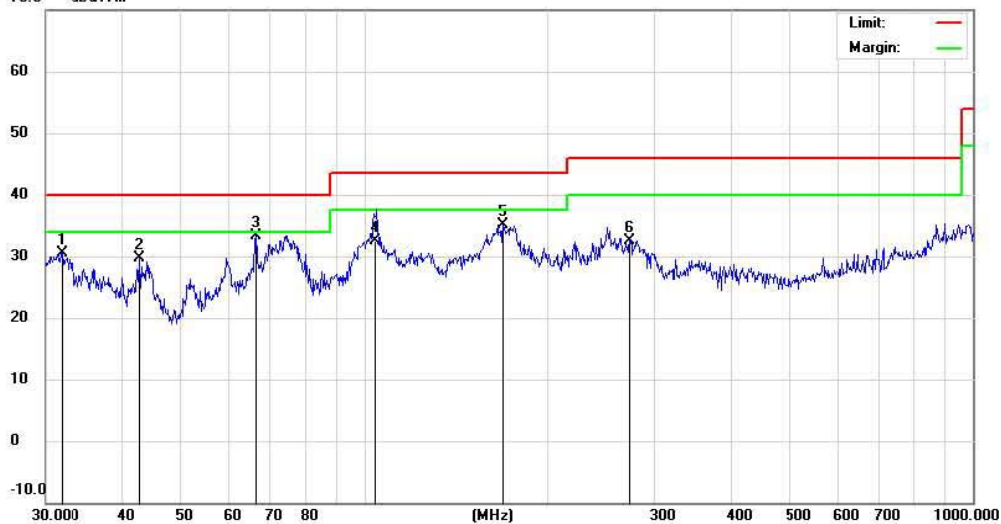
File: CL-718W

Data: #2

Date: 2015-7-16

Time: 14:39:37

70.0 dBuV/m



Site: Chamber #1

Polarization: **Vertical**

Temperature: 24.2

Limit: FCC Part15 B 3M Radiation

Power: DC 12 V by DC Source

Humidity: 51.3 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: ON

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.9545	8.67	21.79	30.46	40.00	-9.54	QP		
2		42.8997	15.31	14.35	29.66	40.00	-10.34	QP		
3	*	66.4989	22.02	11.38	33.40	40.00	-6.60	QP		
4		104.0000	18.19	14.36	32.55	43.50	-10.95	QP		
5		169.5990	17.97	17.20	35.17	43.50	-8.33	QP		
6		273.2340	13.54	19.06	32.60	46.00	-13.40	QP		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

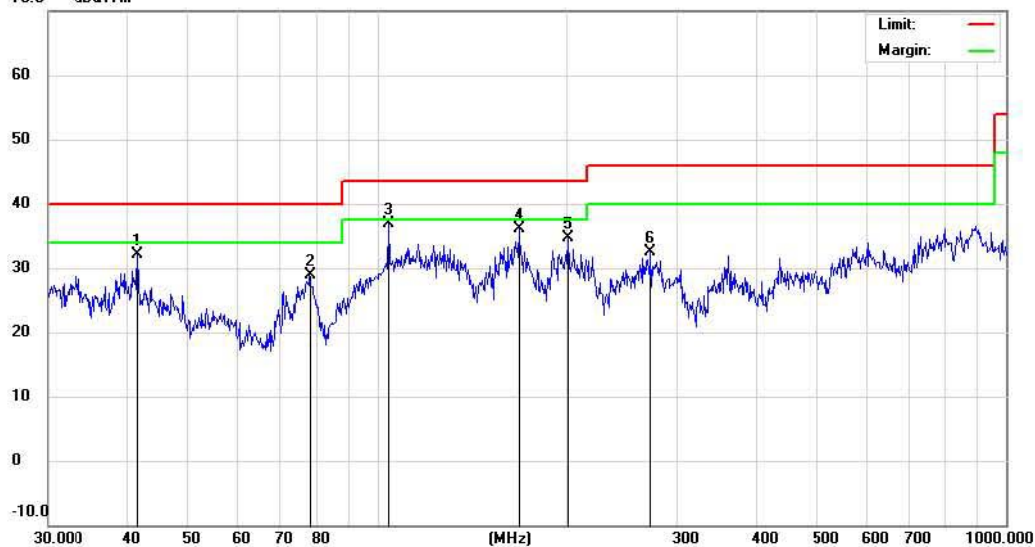
File: CL-718W

Data: #1

Date: 2015-7-16

Time: 14:31:21

70.0 dBuV/m



Site: Chamber #1

Polarization: **Horizontal**

Temperature: 24.2

Limit: FCC Part15 B 3M Radiation

Power: DC 12 V by DC Source

Humidity: 51.3 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: ON

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		41.7129	17.66	14.44	32.10	40.00	-7.90	QP		
2		78.1389	17.40	11.46	28.86	40.00	-11.14	QP		
3	*	104.1701	22.46	14.41	36.87	43.50	-6.63	QP		
4		168.4138	18.83	17.22	36.05	43.50	-7.45	QP		
5		201.3930	17.50	17.19	34.69	43.50	-8.81	QP		
6		272.2776	13.52	19.01	32.53	46.00	-13.47	QP		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

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Above 1 GHz



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #1

Date: 2015-7-30

Time: 8:11:02

96.9 dBuV/m



Site: site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH1

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2402.000	95.08	-8.42	86.66	74.00	12.66	peak		
2	*	2402.000	84.07	-8.42	75.65	54.00	21.65	AVG		
3		4804.000	52.88	-6.01	46.87	74.00	-27.13	peak		
4		4804.000	41.09	-6.01	35.08	54.00	-18.92	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: liidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
, Nanshan Shenzhen
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #3

Date: 2015-7-30

Time: 8:29:36

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH1

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	16940.00	42.30	6.73	49.03	74.00	-24.97	peak		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #2

Date: 2015-7-30

Time: 8:18:33

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH1

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2402.000	95.63	-8.42	87.21	74.00	13.21	peak		
2	*	2402.000	85.11	-8.42	76.69	54.00	22.69	AVG		
3		4804.000	54.89	-6.01	48.88	74.00	-25.12	peak		
4		4804.000	44.00	-6.01	37.99	54.00	-16.01	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #4

Date: 2015-7-30

Time: 8:39:47

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH1

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	16972.50	42.68	6.84	49.52	74.00	-24.48	peak		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #7

Date: 2015-7-30

Time: 9:06:08

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH19

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	X	2440.000	95.30	-8.37	86.93	74.00	12.93	peak		
2	*	2440.000	86.97	-8.37	78.60	54.00	24.60	AVG		
3		4880.000	55.19	-5.26	49.93	74.00	-24.07	peak		
4		4880.000	43.44	-5.26	38.18	54.00	-15.82	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #5

Date: 2015-7-30

Time: 8:47:12

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH19

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	17460.00	44.18	4.42	48.60	74.00	-25.40	peak		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #8

Date: 2015-7-30

Time: 9:17:44

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH19

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2440.000	95.54	-8.37	87.17	74.00	13.17	peak		
2	*	2440.000	84.14	-8.37	75.77	54.00	21.77	AVG		
3		4880.000	53.23	-5.26	47.97	74.00	-26.03	peak		
4		4880.000	42.00	-5.26	36.74	54.00	-17.26	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #6

Date: 2015-7-30

Time: 8:55:20

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH19

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	16972.50	42.17	6.84	49.01	74.00	-24.99	peak		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #9

Date: 2015-7-30

Time: 9:32:05

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2480.000	95.13	-8.31	86.82	74.00	12.82	peak		
2	*	2480.000	84.97	-8.31	76.66	54.00	22.66	AVG		
3		4960.000	54.86	-4.51	50.35	74.00	-23.65	peak		
4		4960.000	43.69	-4.51	39.18	54.00	-14.82	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #11

Date: 2015-7-30

Time: 9:54:30

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH39

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	17037.50	43.34	6.73	50.07	74.00	-23.93	peak		

*:Maximum data x:Over limit l:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #10

Date: 2015-7-30

Time: 9:43:56

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 1-12G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2480.000	95.31	-8.31	87.00	74.00	13.00	peak		
2	*	2480.000	86.22	-8.31	77.91	54.00	23.91	AVG		
3		4960.000	54.97	-4.51	50.46	74.00	-23.54	peak		
4		4960.000	45.90	-4.51	41.39	54.00	-12.61	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: CL-718W

Data: #12

Date: 2015-7-30

Time: 10:02:22

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24.9

Limit: FCC 12-25G PEAK

Power: DC 12V by DC Source

Humidity: 51.7 %

EUT: Wireless TFT LCD Monitor

Distance: 3m

M/N: CL-718W

Mode: GFSK-CH39

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	16907.50	43.36	6.62	49.98	74.00	-24.02	peak		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

lidegan

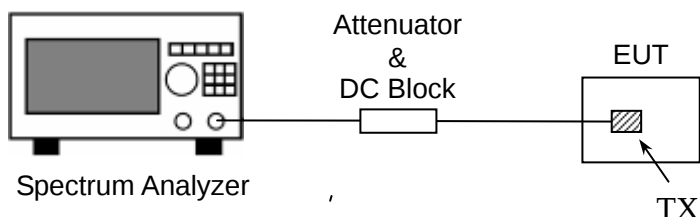
5.4 5.2 20 dB Bandwidth

5.2.1 Definition

Intentional radiators operating under the alternative provisions to the general emission limits, as Contained in §§15.217 through 15.257 and in sub-part E of this part, must be designed to ensure that the 20 dB Bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific Rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2.2 Block Diagram Of Test Setup

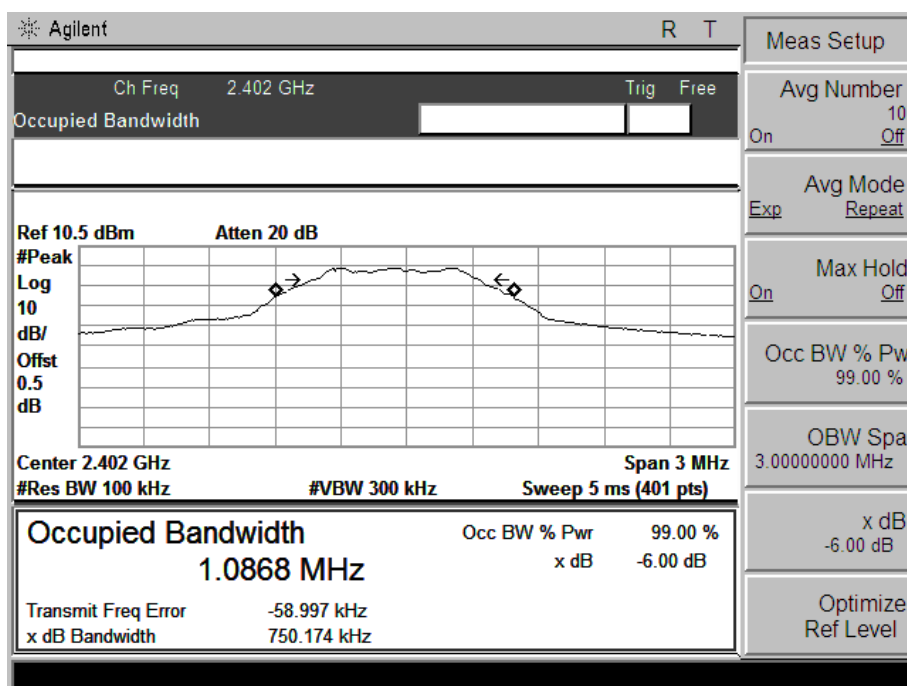
The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 50Ohm.



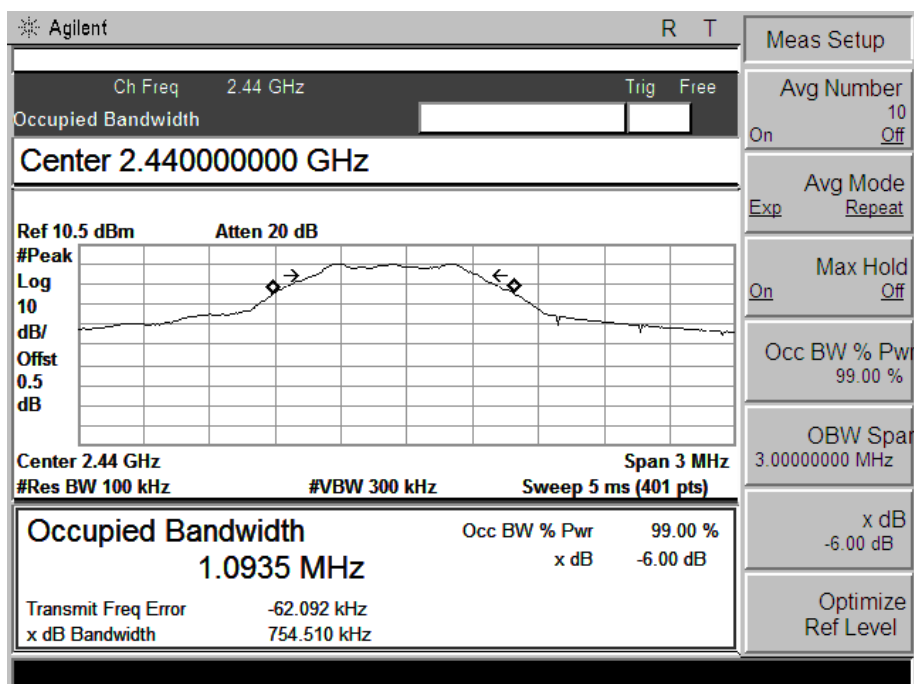
5.2.3 Test Result

GFSK Modulation test result:

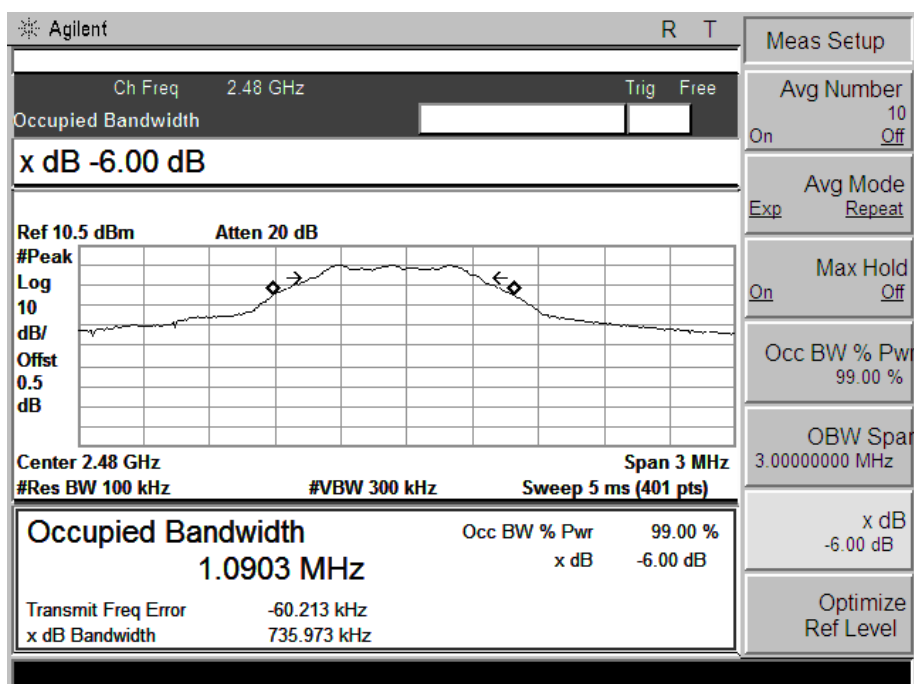
Channel	Frequency (MHz)	Test Result(MHz)
1	2402	0.750
19	2440	0.755
39	2480	0.736



CH Low



CH MID



CH High

5.3 Antenna Requirement

5.3.1 Definition

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device, An analysis of the EUT was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

5.3.2 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

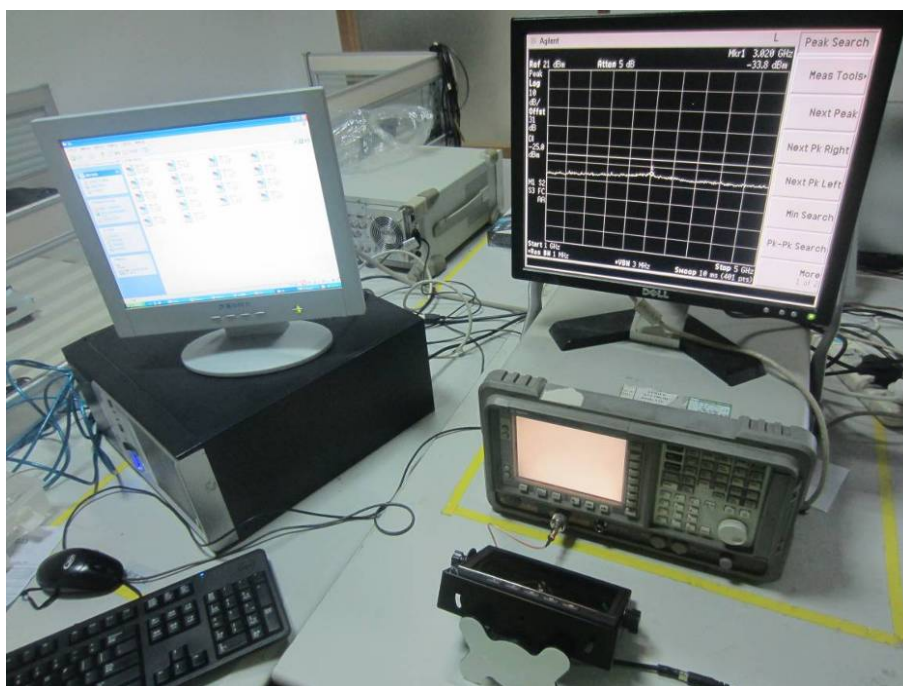
- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.3.3 Evaluation Results

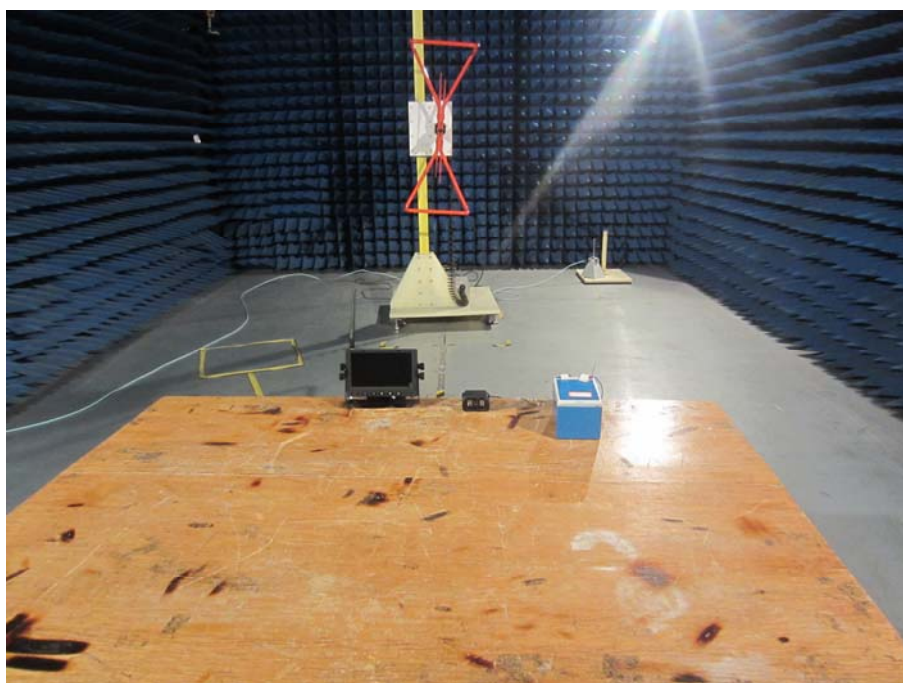
The antenna used in this product is external antenna. The antenna connector is designed with unique type RF connector and no consideration of replacement.

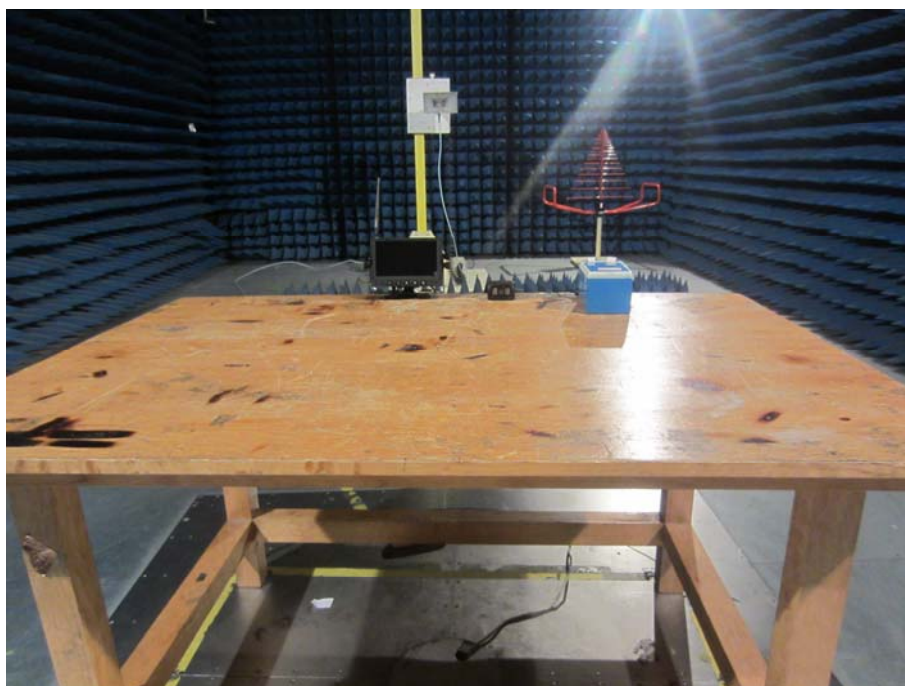
APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

CONDUCTED TEST SETUP



RE TEST SETUP





-----END OF REPORT-----