RF Test Report

Report No: FCS202008024W02

Issued for

Applicant:	Kunshan Myzy Fixture Technology Co., Ltd.
Address:	No.2618,Huanqing Road,Kunshan City, Jiangsu Province,China.
Product Name:	HDO Fixture
Brand Name:	N/A
Model Name:	MZ20-FT012-01
Series Model:	N/A
FCC ID:	2AXI7-MZ20
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com	

TEST RESULT CERTIFICATION

Applicant's Name..... :	Kunshan Myzy Fixture Technology Co., Ltd.
Address ..... :	No.2618,Huanqing Road,Kunshan City, Jiangsu Province,China.
Manufacture's Name..... :	Kunshan Myzy Fixture Technology Co., Ltd.
Address ..... :	No.2618,Huanqing Road,Kunshan City, Jiangsu Province,China.

Product Description

Product Name..... :	HDO Fixture
Model Name ..... :	MZ20-FT012-01
Series Model..... :	N/A
Test Standards..... :	FCC Rules and Regulations Part 15 Subpart C, Section 225
Test Procedure..... :	ANSI C63.10:2013

This device described above has been tested FCS, 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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Date of Test.....:

Date (s) of performance of tests.:	18 August. 2020 ~ 02 Sep. 2020
Date of Issue .....:	02 Sep. 2020
Test Result .....:	Pass

Tested by : Scott Shen

(Scott Shen)

Reviewed by : Duke Qian

(Duke Qian)

Approved by :

(Kait Chen)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	02 Sep. 2020	All	Initial Issue

1. SUMMARY OF TEST RESULTS

Test Summary			
FCC part No.	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.225(d) &15.209	Radiated Emission	PASS	--
15.225(a)	Field Strength of Fundamental Emissions	PASS	
2.1049	20dB Bandwidth	PASS	
15.225(e)	Frequency Stability	PASS	
15.203	Antenna Requirement	PASS	--

NOTE:

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

(2) All tests are according to ANSI C63.10-2013

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number：5545.01	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ±**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** %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±2.98 dB
3	Conducted Emission (9KHz-150KHz)	±4.13 dB
4	Conducted Emission (150KHz-30MHz)	±4.74 dB
5	All emissions,radiated(<1G) 30MHz-1000MHz	±3.2 dB
6	All emissions,radiated (1GHz -18GHz)	±3.66 dB
7	All emissions,radiated (18GHz -40GHz)	±4.31 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	HDO Fixture
Trade Name	NA
Model Name	MZ20-FT012-01
Series Model	NA
Model Difference	NA
Frequency	13.56MHZ
Modulation	ASK
Antenna type	Integral antenna
Power Supply	AC 120V, 60HZ
Hardware version number	V1.1
Software version number	V1.1
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

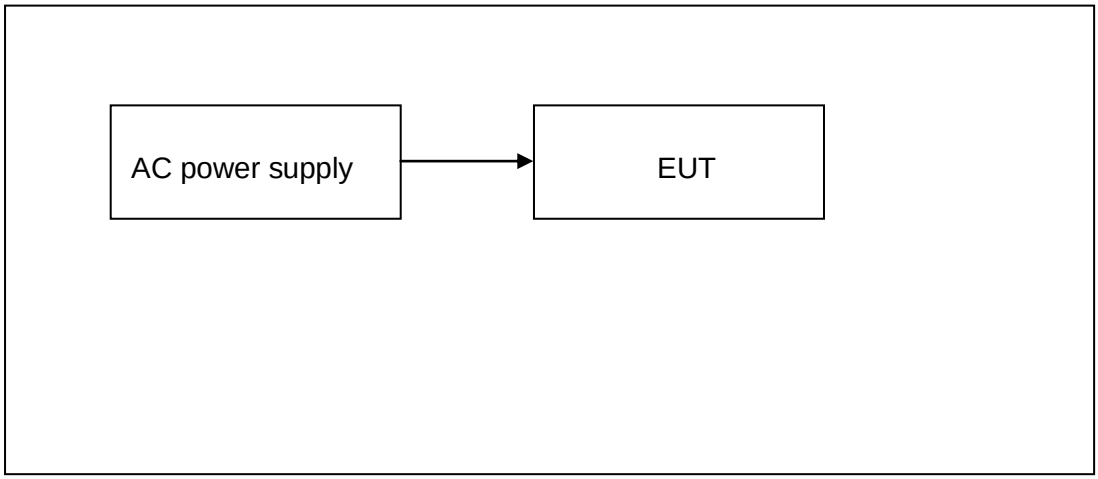
1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	YCC	Loop antenna	N/A	1.00dBi	Antenna

2.2 DESCRIPTION OF THE 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.

Configuration and peripherals



Test environment conditions
During the measurement the environmental conditions were within the listed ranges:
Temperature range: 21-25℃
Humidity range: 40-75%
Pressure range: 86-106kPa

2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

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』column.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2019.10.31	2020.10.30
Signal Analyzer	R&S	FSV40-N	FCS-E012	2019.10.11	2020.10.10
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2019.10.11	2020.10.10
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2019.10.26	2020.10.25
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2019.10.31	2020.10.30
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2019.10.31	2020.10.30
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2019.10.31	2020.10.30
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2019.10.03	2020.10.02
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2019.10.08	2020.10.07
Temperature & Humidity	HTC-1	victor	FCS-E005	2019.10.31	2020.10.30

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2019.10.11	2020.10.10
LISN	R&S	ENV216	FCS-E007	2019.10.15	2020.10.14
LISN	ETS	3810/2NM	FCS-E009	2019.10.15	2020.10.14
Temperature & Humidity	HTC-1	victor	FCS-E008	2019.10.31	2020.10.30

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2019.10.02	2020.10.01
Spectrum Analyzer	Agilent	E4447A	MY50180039	2019.11.08	2020.11.07
Spectrum Analyzer	R&S	FSV-40	101499	2019.10.10	2020.10.09

3 CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

FCC §15.207

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 TEST PROCEDURE

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.

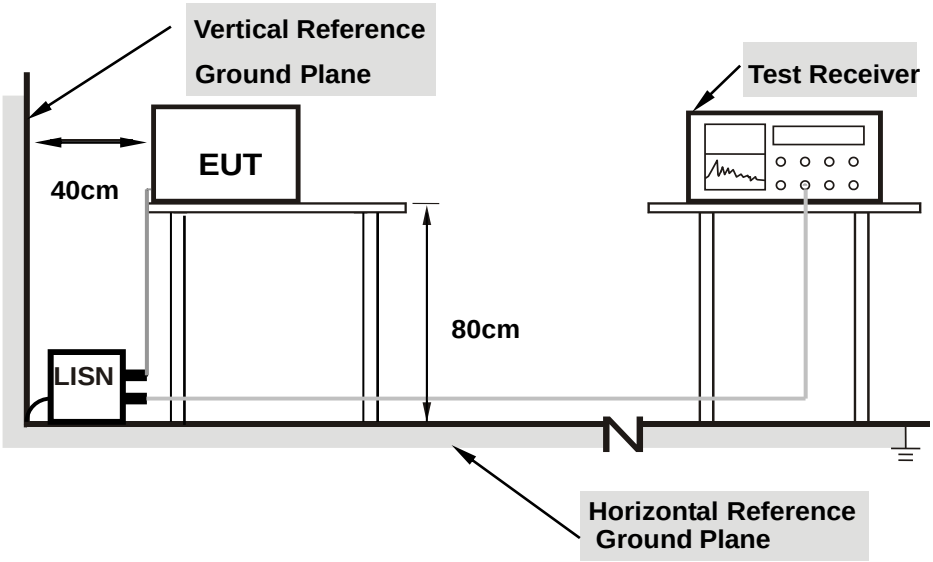
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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.

3.3 TEST SETUP



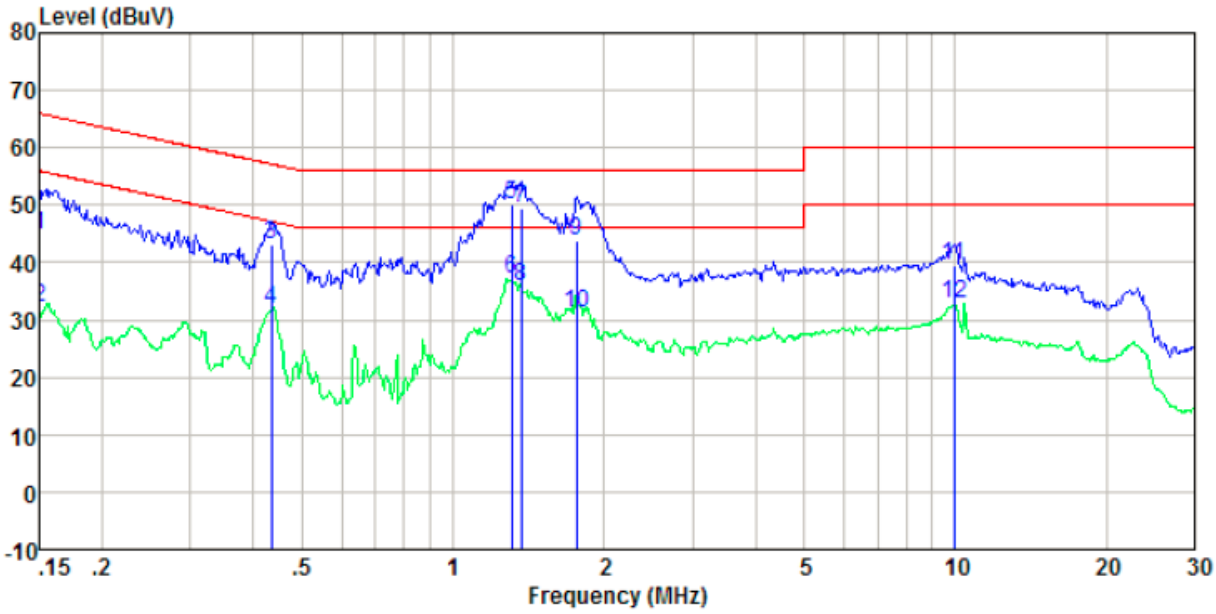
Note: 1.Support units were connected to second LISN.

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

3.4 TEST RESULTS

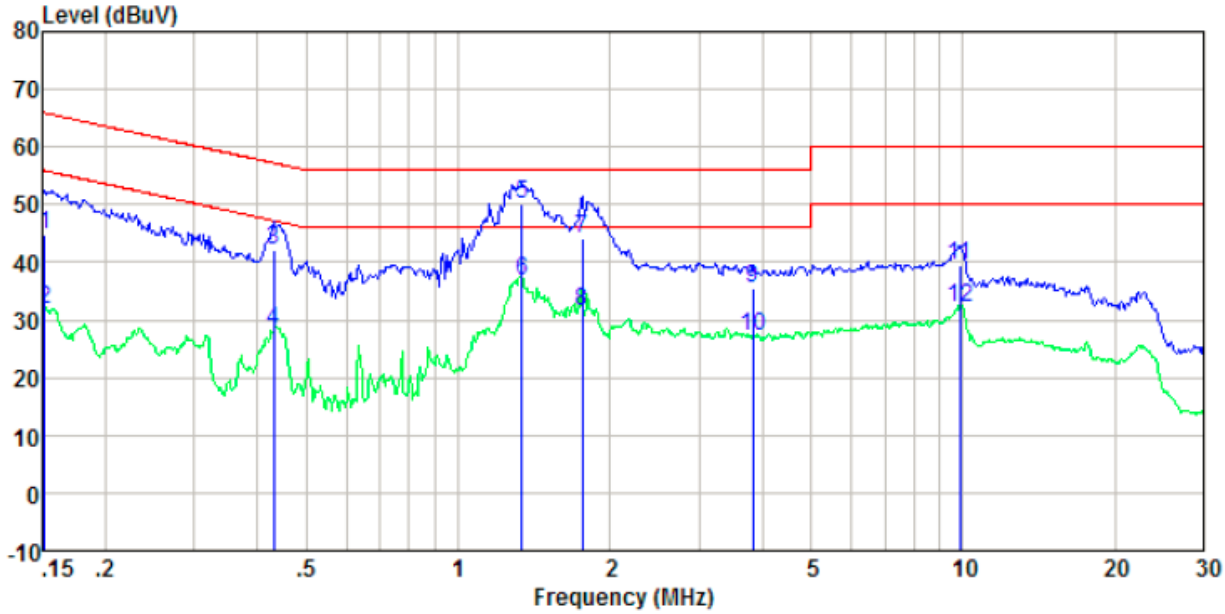
Temperature:	25℃	Relative Humidity:	50%
Test Mode:	ASK	Test Voltage:	AC 120V , 60Hz
Result:	Pass		

L-Line



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	44.34	0.40	0.07	44.81	66.00	-21.19	QP
0.15	31.63	0.40	0.07	32.10	56.00	-23.90	Average
0.44	42.83	0.34	0.11	43.28	57.15	-13.87	QP
0.44	31.39	0.34	0.11	31.84	47.15	-15.31	Average
1.31	49.62	0.20	0.16	49.98	56.00	-6.02	QP
1.31	36.82	0.20	0.16	37.18	46.00	-8.82	Average
1.37	49.22	0.20	0.16	49.58	56.00	-6.42	QP
1.37	35.53	0.20	0.16	35.89	46.00	-10.11	Average
1.76	43.53	0.20	0.17	43.90	56.00	-12.10	QP
1.76	30.81	0.20	0.17	31.18	46.00	-14.82	Average
9.97	39.25	0.20	0.20	39.65	60.00	-20.35	QP
9.97	32.40	0.20	0.20	32.80	50.00	-17.20	Average

N-Line



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	44.34	0.40	0.07	44.81	65.91	-21.10	QP
0.15	31.39	0.40	0.07	31.86	55.91	-24.05	Average
0.43	41.71	0.34	0.11	42.16	57.24	-15.08	QP
0.43	27.80	0.34	0.11	28.25	47.24	-18.99	Average
1.34	49.66	0.20	0.16	50.02	56.00	-5.98	QP
1.34	36.34	0.20	0.16	36.70	46.00	-9.30	Average
1.76	43.70	0.20	0.17	44.07	56.00	-11.93	QP
1.76	31.07	0.20	0.17	31.44	46.00	-14.56	Average
3.84	35.27	0.20	0.18	35.65	56.00	-20.35	QP
3.84	26.75	0.20	0.18	27.13	46.00	-18.87	Average
9.86	39.05	0.20	0.20	39.45	60.00	-20.55	QP
9.86	31.86	0.20	0.20	32.26	50.00	-17.74	Average

4. RADIATED EMISSION MEASUREMENT

4.1 LIMIT

FCC §15.225(A), (B), (C), (D)

LIMITS OF RADIATED EMISSION MEASUREMENT

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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

For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

LIMITS OF FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL

Frequency range (MHz)	Field Strength@30m		Field Strength@3m
	μV/m	dBμV/m	dBμV/m
Below 13.110	30	29.5	69.5
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5
Above 14.010	30	29.5	69.5

NOTE:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.

According to FCC section 15.225, for <30 MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT) There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBuV/m) =20log(X)+40log(30/3)= 20log(15848)+40log(30/3) = 124dBuV

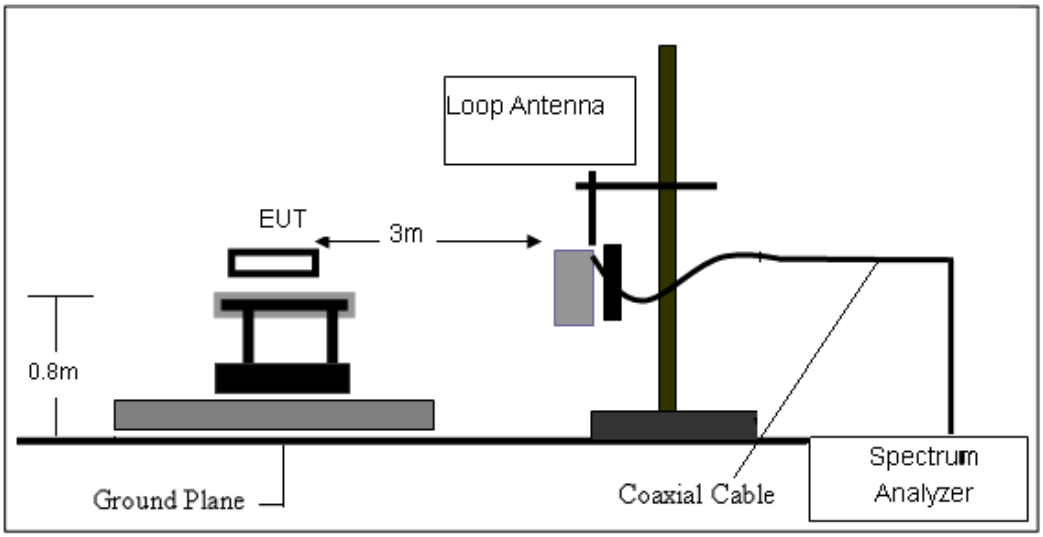
4.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz,and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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 QuasiPeak 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.

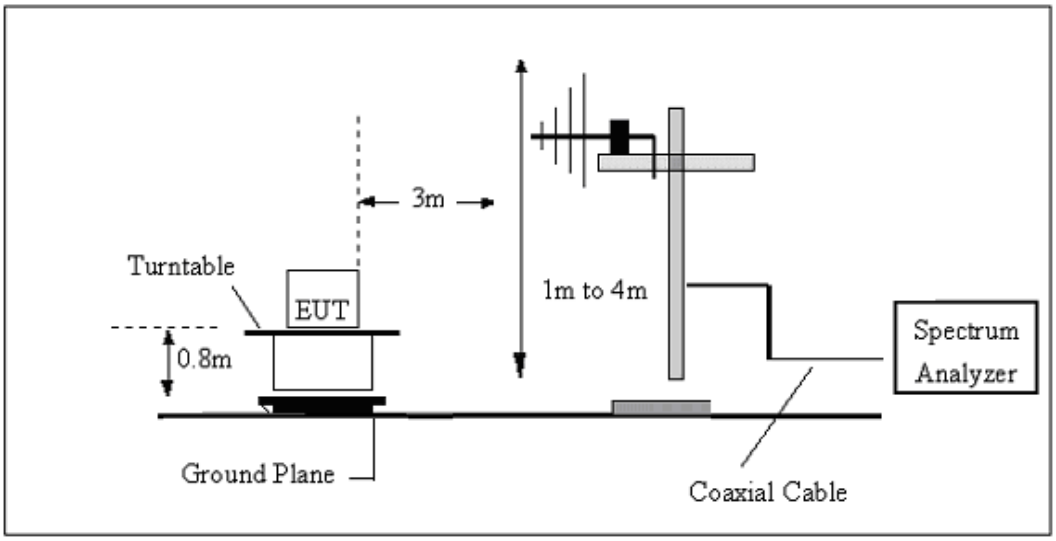
Note:
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

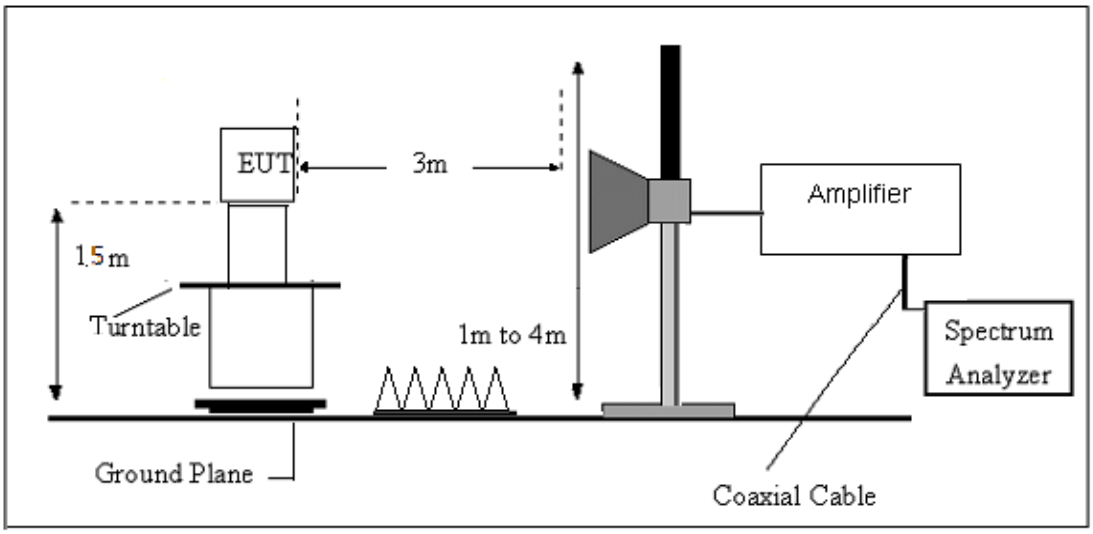
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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

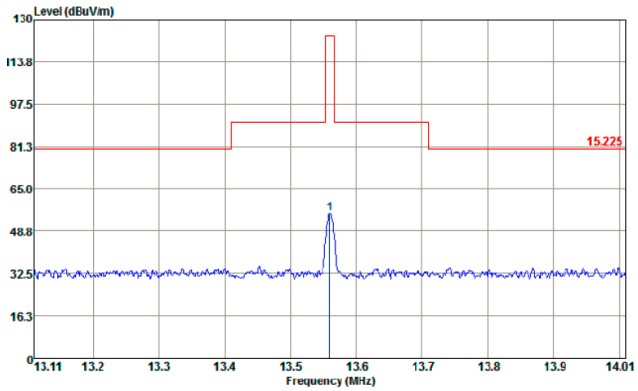


4.4 TEST RESULTS

Temperature:	25℃	Relative Humidity:	60%
Test Mode:	ASK	Test Voltage:	DC 3V

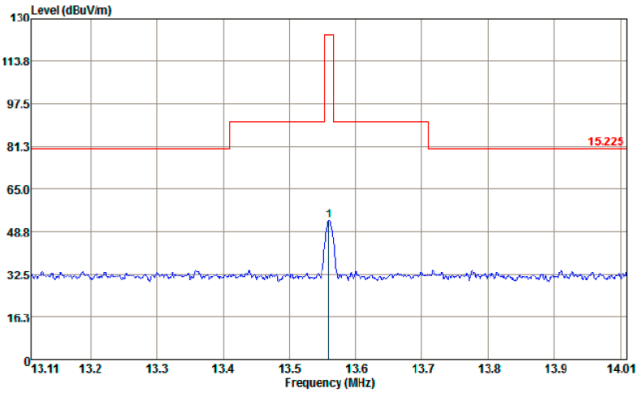
For field strength of the fundamental signal

H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	13.56	55.44	-68.56	124.00	34.97	20.07	0.40	100	350	peak

V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	13.56	53.01	-70.99	124.00	32.88	19.73	0.40	100	70	peak

For spurious emission

(9KHz-30MHz)
Antenna polarization：Vertical

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.05419	31.39	-81.54	112.93	11.07	20.03	0.29	-	-	Average
0.08652	22.35	-86.51	108.86	2.07	19.99	0.29	-	-	Average
0.10838	24.12	-82.79	106.91	3.84	19.99	0.29	-	-	QP
0.1422	21.12	-83.43	104.55	0.88	19.95	0.29	-	-	Average
0.2605	40.23	-59.06	99.29	20.02	19.92	0.29	-	-	Average
0.51253	38.28	-35.13	73.41	18.07	19.9	0.31	-	-	QP
9.288	35.35	-34.65	70	15.16	19.81	0.38	-	-	QP
21.274	37.95	-32.05	70	17.5	20.02	0.43	100	147	QP
26.56	35.76	-34.24	70	15.19	20.09	0.48	-	-	QP

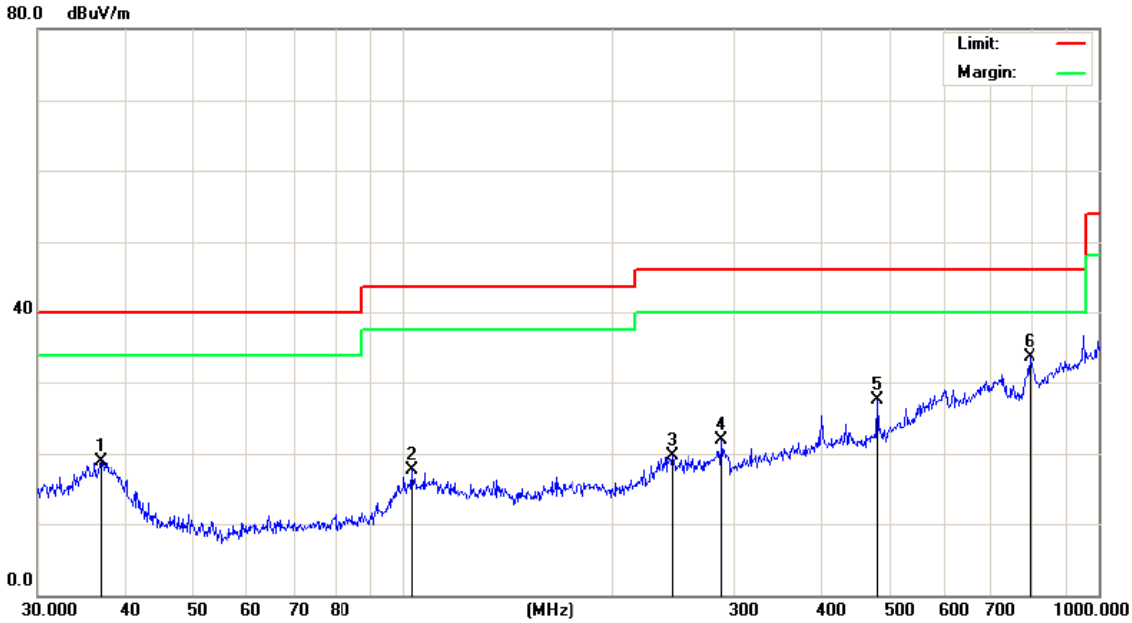
Antenna polarization：Horizontal

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.05414	35.19	-77.74	112.93	14.89	20.01	0.29	-	-	Average
0.08481	22.39	-86.65	109.04	2.14	19.96	0.29	-	-	Average
0.10828	26.86	-80.05	106.91	6.61	19.96	0.29	-	-	QP
0.13832	20.35	-84.44	104.79	0.12	19.94	0.29	-	-	Average
0.4492	39.17	-55.39	94.56	19	19.88	0.29	-	-	Average
0.50502	39.56	-33.98	73.54	19.39	19.88	0.29	-	-	QP
11.328	35.55	-34.45	70	15.1	20.06	0.39	-	-	QP
20.068	37.43	-32.57	70	16.56	20.44	0.43	100	245	QP
27.225	35.8	-34.2	70	14.64	20.68	0.48	-	-	QP

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor

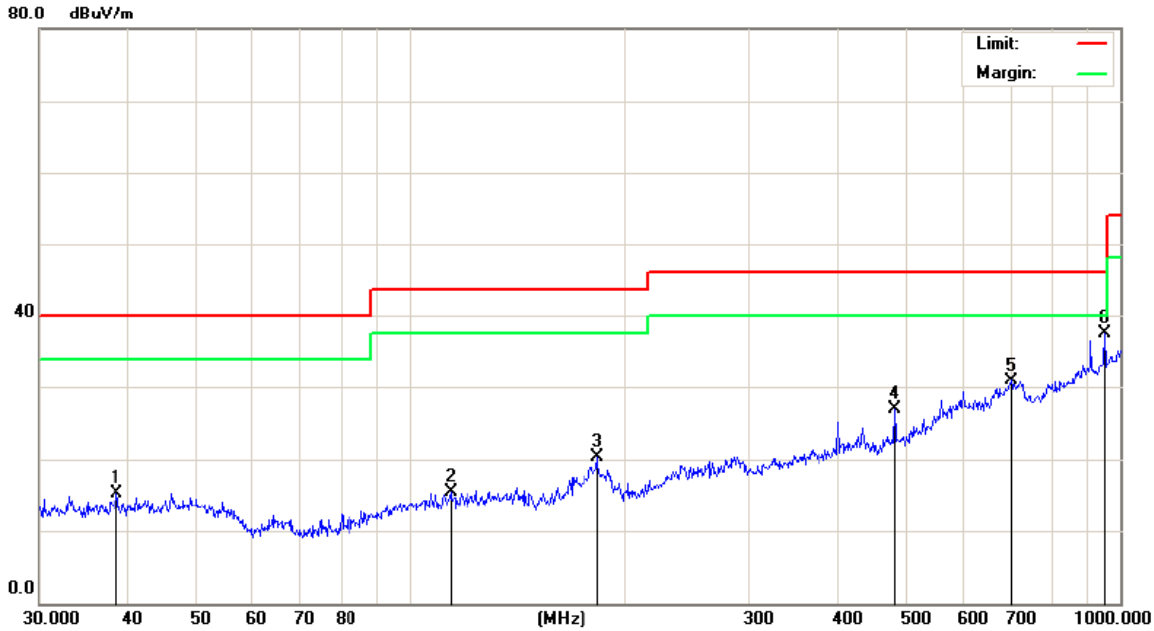
(30MHZ-1000MHZ)

Temperature:	23.7℃	Relative Humidity:	61%
Test Voltage:	AC 120V 60HZ	Phase:	Horizontal
Test Mode:	ASK		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		36.8953	35.68	-16.72	18.96	40.00	-21.04	QP
2		103.0800	31.44	-13.72	17.72	43.50	-25.78	QP
3		244.2321	31.16	-11.54	19.62	46.00	-26.38	QP
4		287.9904	31.76	-9.85	21.91	46.00	-24.09	QP
5		480.5276	33.40	-5.90	27.50	46.00	-18.50	QP
6	*	796.1830	30.64	3.01	33.65	46.00	-12.35	QP

Temperature:	22.7℃	Relative Humidity:	61%
Test Voltage:	AC 120V 60HZ	Phase:	Vertical
Test Mode:	ASK		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		38.4809	29.77	-14.48	15.29	40.00	-24.71	QP
2		113.7143	30.66	-15.21	15.45	43.50	-28.05	QP
3		183.2005	30.71	-10.48	20.23	43.50	-23.27	QP
4		480.5276	32.74	-5.90	26.84	46.00	-19.16	QP
5		701.7610	30.61	0.32	30.93	46.00	-15.07	QP
6	*	952.0937	33.74	3.77	37.51	46.00	-8.49	QP

5. 20 DB BANDWIDTH TEST

5.1 TEST PROCEDURE

FCC §2.1049&15.215(C)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency.

The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT

while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth

RBW ≥ 1% of the 20 dB bandwidth

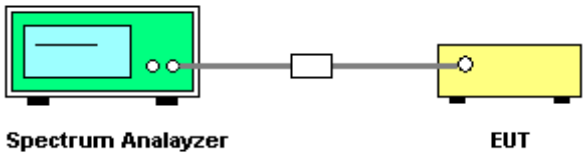
VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.2 TEST SETUP

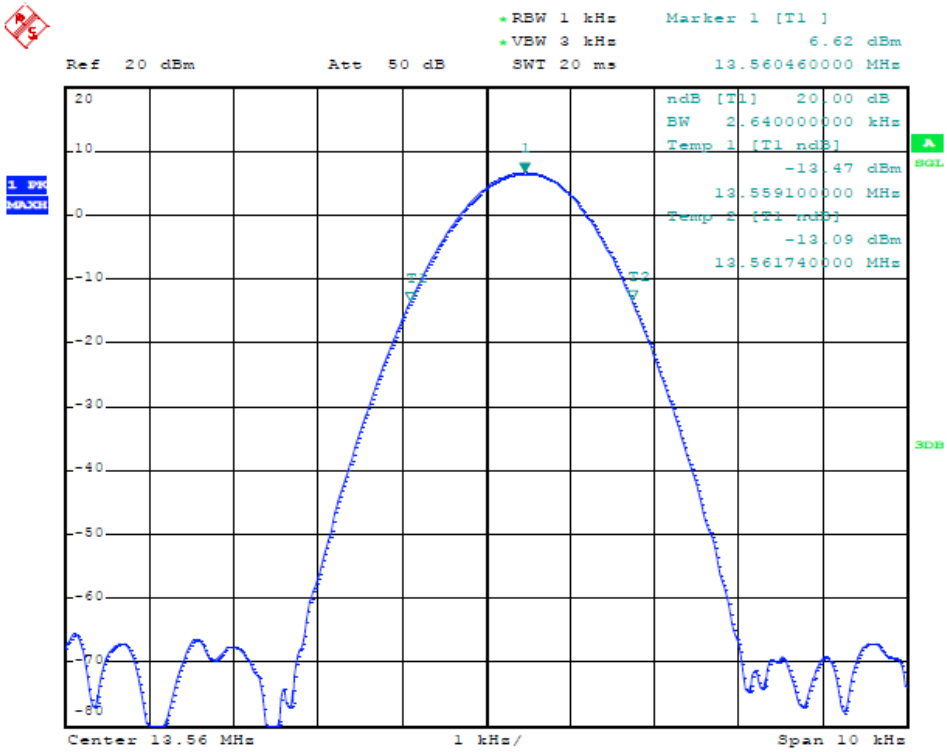


5.3 TEST RESULTS

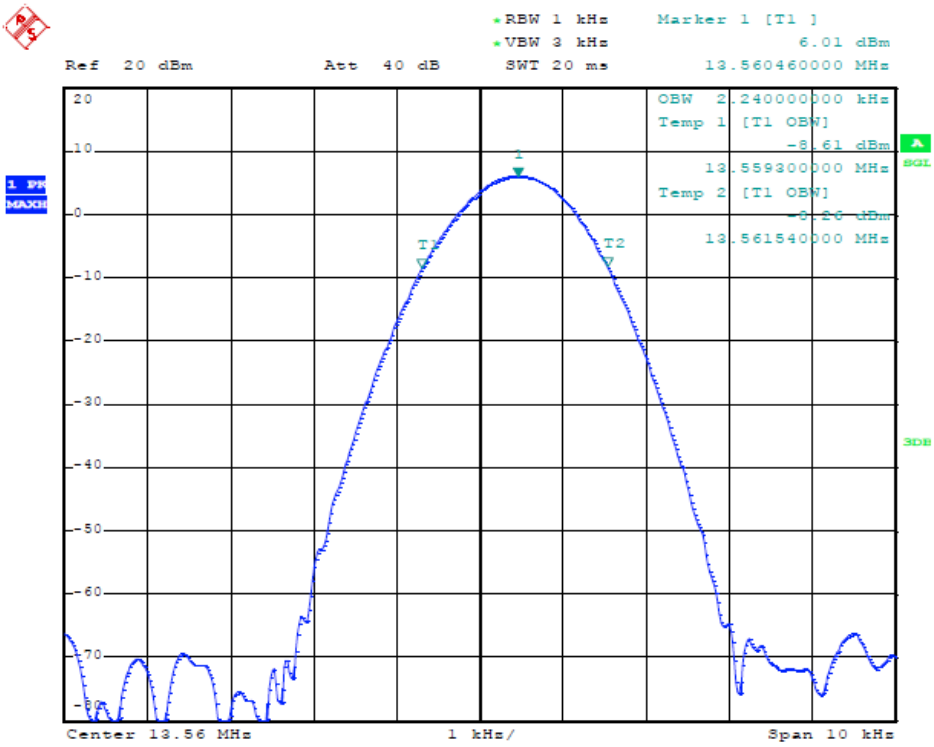
Temperature:	25℃	Relative Humidity:	50%
Test Mode:	ASK	Test Voltage:	DC 3 V

Frequency	20dB Bandwidth (KHz)	99%OBW (KHz)	Result
13.56 MHz	2.640KHZ	2.240	PASS

20dB Bandwidth



99%OBW


RBW 1 kHz
VBW 3 kHz
SWT 20 ms
Marker 1 [T1]
6.01 dBm
13.560460000 MHz
Ref 20 dBm
Att 40 dB
OBW 2.240000000 kHz
Temp 1 [T1 OBW]
-8.61 dBm
13.559300000 MHz
Temp 2 [T1 OBW]
-8.26 dBm
13.561540000 MHz
T1
T2
Center 13.56 MHz
1 kHz/
Span 10 kHz

6 FREQUENCY STABILITY MEASUREMEN

6.1 LIMIT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery

6.2 TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10_6$ ppm and the limit is less than ±100ppm.
6. Extreme temperature rule is -20°C~50°C.

6.3TEST RESULTS

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability	
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (℃)	Measurement Frequency (MHz)
120	13.560420	-20	13.560550
102	13.560420	-10	13.560550
138	13.560420	0	13.560540
		10	13.560500
		20	13.560480
		30	13.560460
		40	13.560420
		50	13.560400
Max.Deviation (MHz)	0.000420	**Max.Deviation (MHz)**	0.000550
Max.Deviation (ppm)	30.9735	**Max.Deviation (ppm)**	40.5605
Limit	**FS < ±100 ppm**	**Limit**	**FS < ±100 ppm**
Test Result	**PASS**	**Test Result**	**PASS**

7 ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

7.2 EUT ANTENNA

The antennas used for this product are loop antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1dBi.

※※※※※END OF THE REPORT※※※※※