



TEST REPORT

Report Reference No...... : **TRE1507002102** R/C.....:47871
FCC ID..... : **2AAP6M1042**
Applicant's name..... : **SHENZHEN ZOWEE TECHNOLOGY CO., LTD.**
 Address..... : Science &Technology Industrial Park of Privately
 Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR
 CHINA
 Manufacturer..... : SHENZHEN ZOWEE TECHNOLOGY CO., LTD.
 Address..... : Science &Technology Industrial Park of Privately
 Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR
 CHINA
Test item description : **Tablet PC**
 Trade Mark : NUVISION,TMAX,DOPO,NOBIS,APEX
 Model/Type reference..... : TM101W535L
 Listed Model(s)..... : DPW10A,DPW10B,NBW1027,M1042,M1059,M1059A1
Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**
 Date of receipt of test sample..... : May 12, 2015
 Date of testing..... : May 12, 2015 - July 13, 2015
 Date of issue..... : July 13, 2015
Result..... : **PASS**

Compiled by
 (position+printedname+signature).... : File administrators Any Yang 
 Supervised by
 (position+printedname+signature)..... : Project Engineer Lion Cai 
 Approved by
 (position+printedname+signature)..... : RF Manager Hans Hu 

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd**
 Address..... : Bldg3, Hongfa Hi-tech Industrial Park, Genyu Road, Shenzhen,
 China

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.
 This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Contents

1.	<u>TEST STANDARDS AND TEST DESCRIPTION</u>	3
1.1.	Test Standards	3
1.2.	Test Description	3
2.	<u>SUMMARY</u>	4
2.1.	Client Information	4
2.2.	Product Description	4
2.3.	Operation state	5
2.4.	EUT configuration	5
2.5.	Modifications	5
3.	<u>TEST ENVIRONMENT</u>	6
3.1.	Address of the test laboratory	6
3.2.	Test Facility	6
3.3.	Environmental conditions	7
3.4.	Statement of the measurement uncertainty	7
3.5.	Equipments Used during the Test	8
4.	<u>TEST CONDITIONS AND RESULTS</u>	9
4.1.	Antenna requirement	9
4.2.	Conducted Emission (AC Main)	10
4.3.	Spurious Emission (radiated)	13
5.	<u>TEST SETUP PHOTOS OF THE EUT</u>	18
6.	<u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u>	19

1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

ReportSection	Test Item	Section in CFR 47	Result
4.1	Antenna Requirement	15.203/15.247 (c)	Pass
4.2	AC Power Line Conducted Emission	15.207	Pass
4.3	Radiated Emission	15.247(d)/15.209	Pass

Remark: The measurement uncertainty is not included in the test result.

2. SUMMARY

2.1. Client Information

Applicant:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.
Address:	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA
Manufacturer:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.
Address:	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA

2.2. Product Description

Name of EUT	Tablet PC
Trade Mark:	NUVISION,TMAX,DOPO,NOBIS,APEX
Model No.:	TM101W535L
Listed Model(s):	DPW10A,DPW10B,NBW1027,M1042,M1059,M1059A1
Power supply:	DC 3.7V From internal battery
Adapter information:	Model: TEKA018-0522500UK Input:100-240Va.c., 50/60Hz,0.5A Output: 5.2Vd.c.,2.5A
Bluetooth	
Version:	Supported BT4.0+EDR
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	Internal Antenna
Antenna gain:	0.72dBi

Report Version:

This copy was issued base on TRE1505006202(Issued data:2015-05-18), the adapter and the LCD Screen have been changed ,so the data of test item Conducted Emission and Spurious Emission (radiated) were updated.Others data was same as original report.

2.3. Operation state

◆ Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
0	2402
1	2403
⋮	⋮
39	2441
⋮	⋮
77	2479
78	2480

◆ Test mode

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions:

the EUT was set to connect with the Bluetooth under large package sizes transmission.

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

<input type="radio"/>	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
<input type="radio"/>	Multimeter	Manufacturer :	/
		Model No. :	/

2.5. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming)
Address: Bldg3, Hongfa Hi-tech Industrial Park, Genyu Road, Shenzhen, China
Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2015.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date Jul. 01, 2012, valid time is until Jun. 01, 2015.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478, Renewal date July 18, 2014, valid time is until July. 18, 2017.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

IC-Registration No.: 5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on September 3, 2014, valid time is until September 3, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

3.3. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

3.5. Equipments Used during the Test

Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2014/11/01
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2014/11/01
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2014/11/01
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2014/11/01
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2014/11/01
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2014/11/01
8	Amplifer	Sonoma	310N	E009-13	2014/11/01
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2014/11/01
10	High pass filter	Compliance Direction systems	BSU-6	34202	2014/11/01
11	HORNANTENNA	ShwarzBeck	9120D	1012	2014/11/01
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2014/11/01
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2014/11/01
14	TURNTABLE	MATURO	TT2.0	----	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2014/11/01
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2014/11/01

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2014/11/01

The Cal.Interval was one year

4. TEST CONDITIONS AND RESULTS

4.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

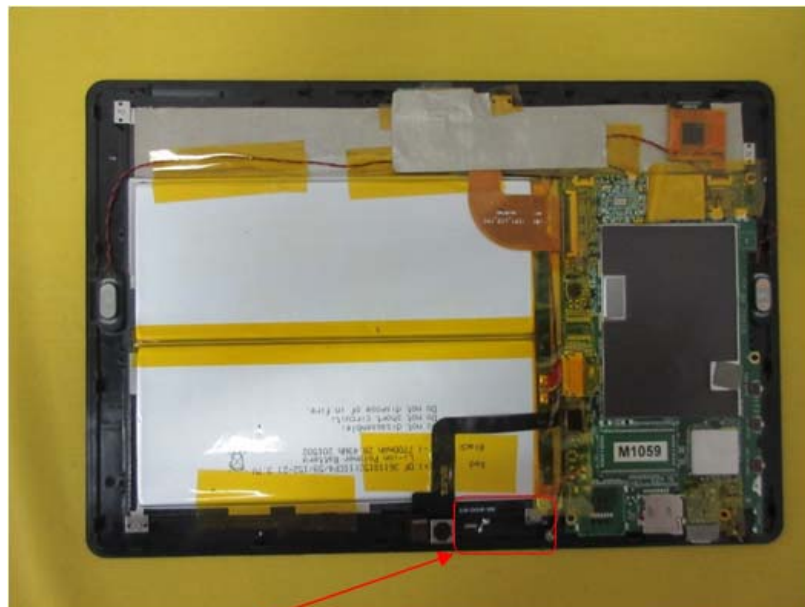
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The antenna is integral antenna, the best case gain of the antenna is 0.72dBi



WiFi/BT Antenna

4.2. Conducted Emission (AC Main)

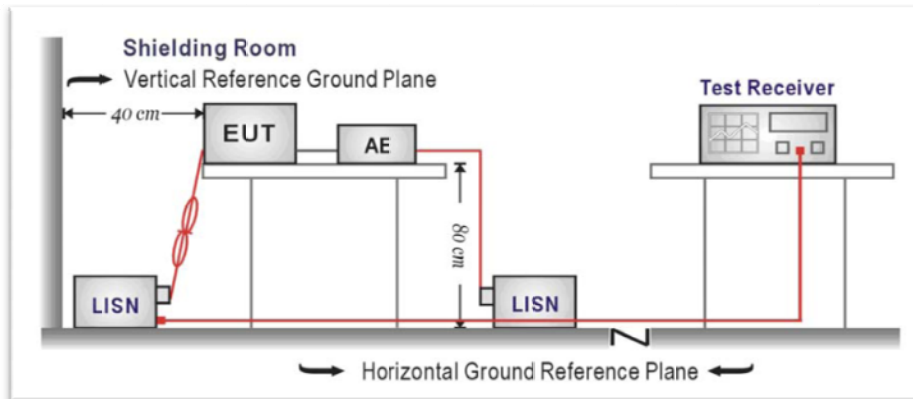
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION

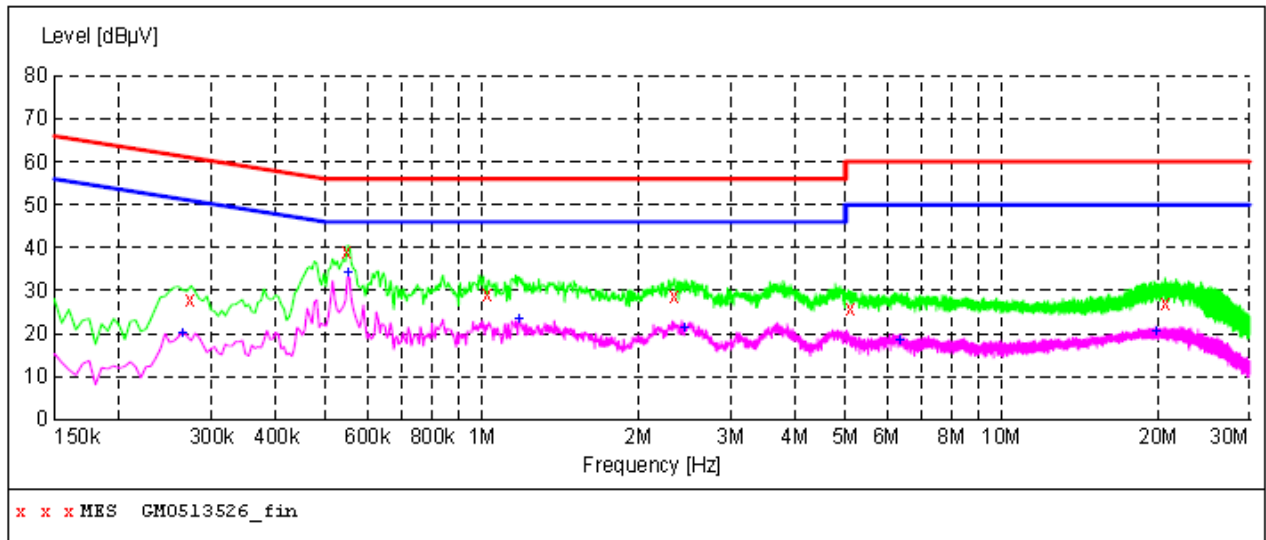


TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4: 2014 and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

TEST RESULTS

Test mode:	BT	Polarization	L
------------	----	--------------	---



MEASUREMENT RESULT: "GM0513526_fin"

5/13/2015 5:22PM

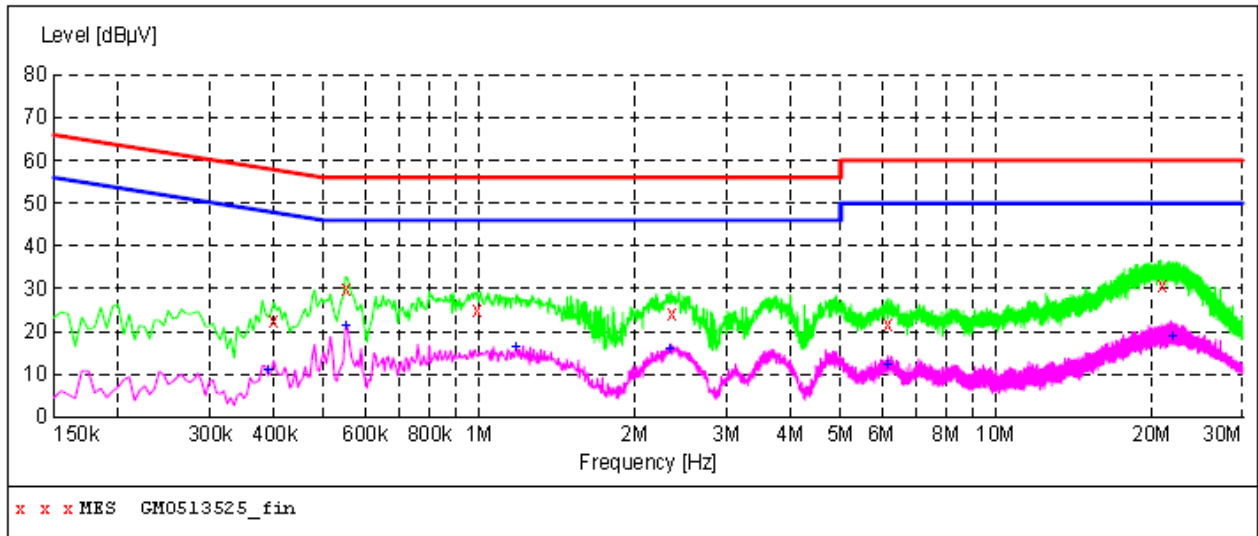
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.275000	27.90	10.2	61	33.1	QP	L1	GND
0.550000	39.10	10.2	56	16.9	QP	L1	GND
1.025000	29.10	10.2	56	26.9	QP	L1	GND
2.345000	28.60	10.3	56	27.4	QP	L1	GND
5.115000	25.70	10.4	60	34.3	QP	L1	GND
20.655000	27.20	11.0	60	32.8	QP	L1	GND

MEASUREMENT RESULT: "GM0513526_fin2"

5/13/2015 5:22PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.265000	20.20	10.2	51	31.1	AV	L1	GND
0.550000	34.30	10.2	46	11.7	AV	L1	GND
1.180000	23.30	10.2	46	22.7	AV	L1	GND
2.445000	21.30	10.3	46	24.7	AV	L1	GND
6.360000	18.50	10.5	50	31.5	AV	L1	GND
19.765000	20.30	10.9	50	29.7	AV	L1	GND

Test mode:	BT	Polarization	N
------------	----	--------------	---



MEASUREMENT RESULT: "GM0513525_fin"

5/13/2015 5:19PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.400000	22.70	10.2	58	35.2	QP	N	GND
0.555000	30.00	10.2	56	26.0	QP	N	GND
0.990000	25.10	10.2	56	30.9	QP	N	GND
2.365000	24.00	10.3	56	32.0	QP	N	GND
6.195000	21.70	10.5	60	38.3	QP	N	GND
21.000000	30.70	11.0	60	29.3	QP	N	GND

MEASUREMENT RESULT: "GM0513525_fin2"

5/13/2015 5:19PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.390000	10.80	10.2	48	37.3	AV	N	GND
0.550000	21.20	10.2	46	24.8	AV	N	GND
1.180000	16.30	10.2	46	29.7	AV	N	GND
2.345000	15.70	10.3	46	30.3	AV	N	GND
6.165000	12.00	10.5	50	38.0	AV	N	GND
21.880000	18.90	11.0	50	31.1	AV	N	GND

4.3. Spurious Emission (radiated)

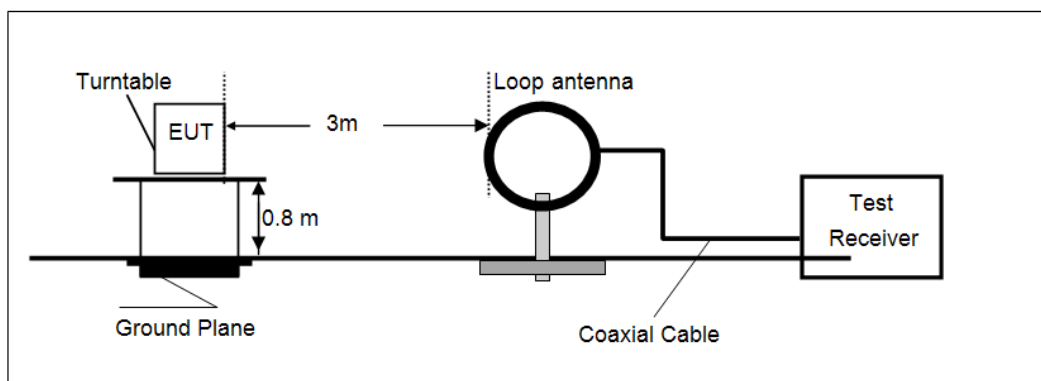
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

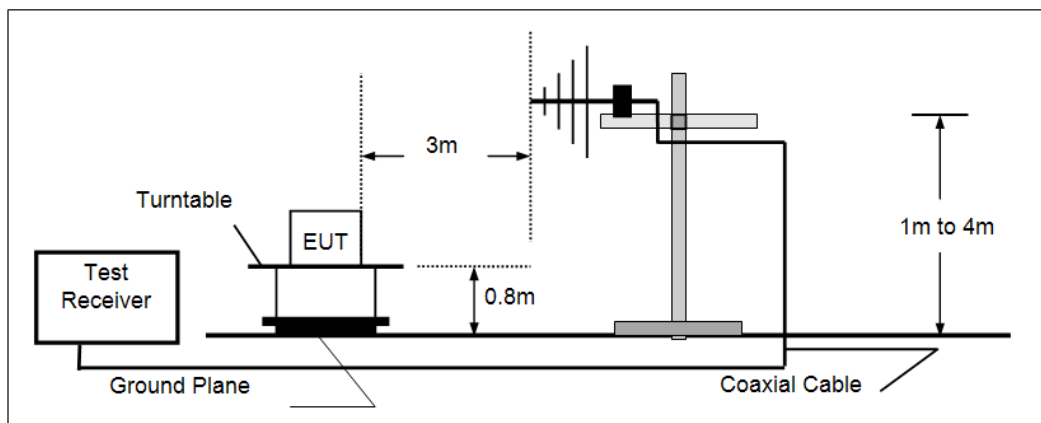
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

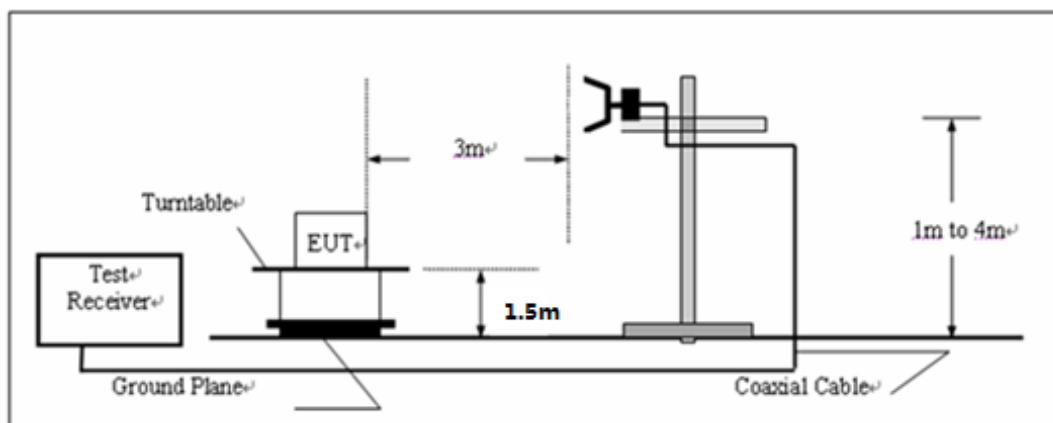
- ◆ Below 30MHz



- ◆ 30MHz~1000MHz



- ◆ Above 1GHz



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value
RBW=1MHz, VBW=10Hz for Average value.

TEST RESULTS

Noted:

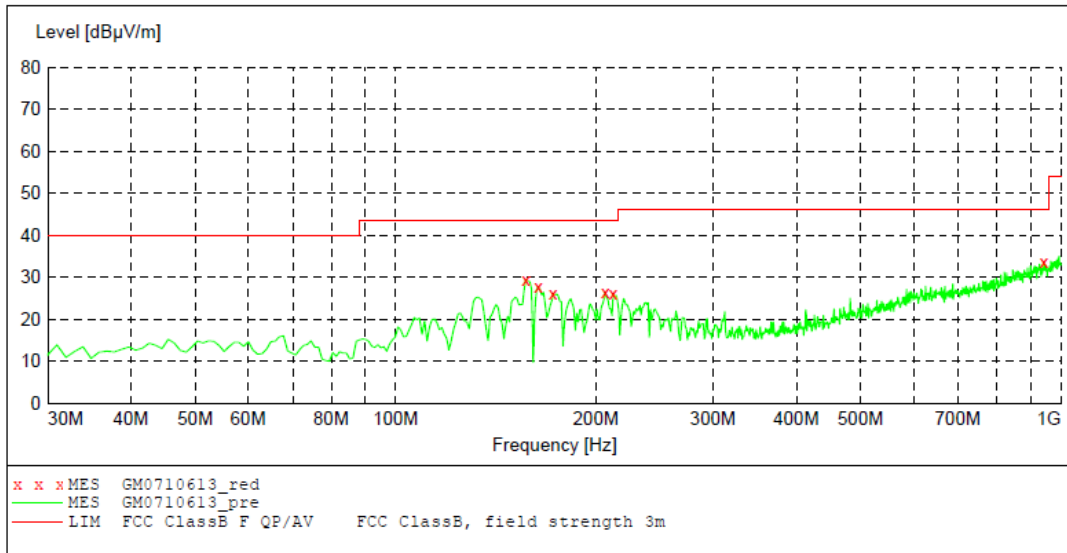
Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report.

Measurement data:

■ **9kHz ~ 30MHz**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

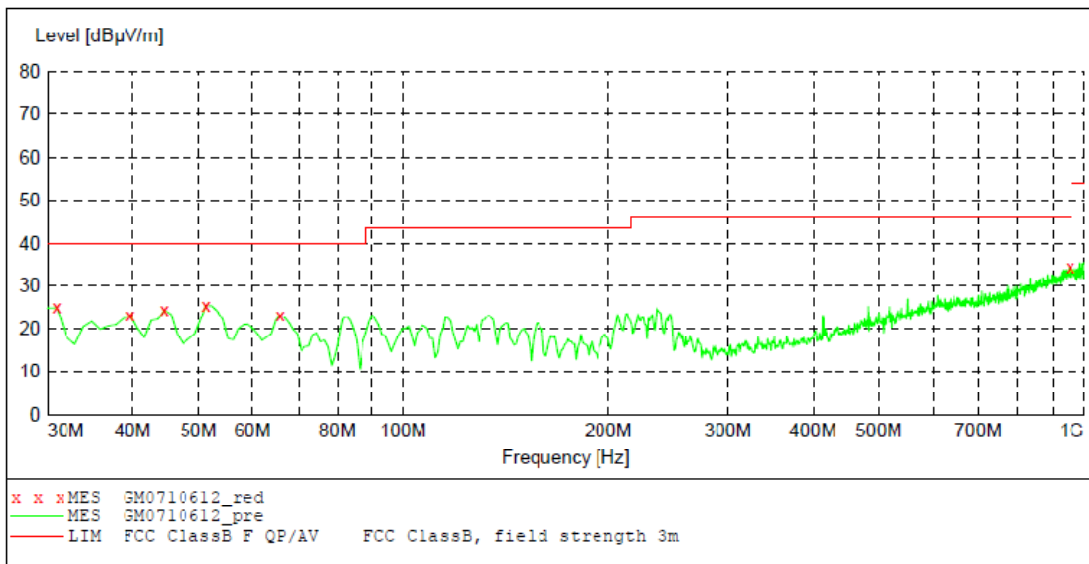
■ **30MHz ~ 1GHz**



MEASUREMENT RESULT: "GM0710613_red"

7/10/2013 11:28AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
157.070000	29.50	-17.4	43.5	14.0	QP	100.0	247.00	HORIZONTAL
163.860000	27.70	-16.9	43.5	15.8	QP	100.0	247.00	HORIZONTAL
172.590000	26.10	-16.3	43.5	17.4	QP	100.0	229.00	HORIZONTAL
206.540000	26.40	-13.9	43.5	17.1	QP	100.0	282.00	HORIZONTAL
212.360000	26.10	-14.1	43.5	17.4	QP	100.0	299.00	HORIZONTAL



MEASUREMENT RESULT: "GM0710612_red"

7/10/2013 11:25AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.970000	25.00	-16.7	40.0	15.0	QP	100.0	220.00	VERTICAL
39.700000	23.10	-15.3	40.0	16.9	QP	100.0	31.00	VERTICAL
44.550000	24.30	-14.8	40.0	15.7	QP	100.0	305.00	VERTICAL
51.340000	25.40	-14.4	40.0	14.6	QP	100.0	251.00	VERTICAL
65.890000	23.10	-16.1	40.0	16.9	QP	100.0	26.00	VERTICAL
954.410000	34.20	3.8	46.0	11.8	QP	100.0	235.00	VERTICAL

■ Above 1GHz

CH00 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4501.49	39.31	30.90	8.98	38.33	40.86	74.00	-33.14	Vertical	Peak
7508.69	35.79	36.22	10.97	38.16	44.82	74.00	-29.18	Vertical	
10165.29	35.76	38.49	12.61	38.14	48.72	74.00	-25.28	Vertical	
12110.00	*							Vertical	
4490.05	38.44	30.90	8.98	38.33	39.99	74.00	-34.01	Horizontal	
7172.41	36.05	35.95	10.84	38.10	44.74	74.00	-29.26	Horizontal	
10295.50	35.69	35.58	12.71	38.14	48.84	74.00	-25.16	Horizontal	
12110.00	*							Horizontal	
4501.49	31.31	30.90	8.98	38.33	32.86	54.00	-21.14	Vertical	Average
7508.69	26.25	36.22	10.97	38.16	35.28	54.00	-18.72	Vertical	
10165.29	29.32	38.49	12.61	38.14	42.28	54.00	-11.72	Vertical	
12110.00	*							Vertical	
4490.05	31.44	30.90	8.98	38.33	32.99	54.00	-21.01	Horizontal	
7172.41	28.83	35.95	10.84	38.10	37.52	54.00	-16.48	Horizontal	
10295.50	31.96	35.58	12.71	38.14	42.11	54.00	-11.89	Horizontal	
12110.00	*							Horizontal	
CH39 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4882.00	39.94	30.88	5.7	35.27	41.25	74.00	-32.75	Vertical	Peak
7323.00	36.78	35.82	6.91	35.13	44.38	74.00	-29.62	Vertical	
9764.00	38.03	37.45	8.84	35.53	48.79	74.00	-25.21	Vertical	
12205.00	*							Vertical	
4882.00	43.25	30.88	5.7	35.27	44.56	74.00	-29.44	Horizontal	
7323.00	37.37	35.82	6.91	35.13	44.97	74.00	-29.03	Horizontal	
9764.00	36.89	37.45	8.84	35.53	47.65	74.00	-26.35	Horizontal	
12205.00	*							Horizontal	
4882.00	29.78	30.88	5.7	35.27	31.09	54.00	-22.91	Vertical	Average
7323.00	28.78	35.82	6.91	35.13	36.38	54.00	-17.62	Vertical	
9764.00	32.87	37.45	8.84	35.53	43.63	54.00	-10.37	Vertical	
12205.00	*							Vertical	
4882.00	35.54	30.88	5.7	35.27	36.85	54.00	-17.15	Horizontal	
7323.00	29.19	35.82	6.91	35.13	36.79	54.00	-17.21	Horizontal	
9764.00	30.8	37.45	8.84	35.53	41.56	54.00	-12.44	Horizontal	
12205.00	*							Horizontal	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

CH78 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4641.12	35.58	30.99	9.09	38.43	41.23	74.00	-32.77	Vertical	Peak
7009.96	36.48	35.82	10.77	38.06	45.01	74.00	-28.99	Vertical	
9088.19	36.41	37.94	11.75	37.97	48.13	74.00	-25.87	Vertical	
12380.00	*							Vertical	
5448.41	38.23	32.29	9.60	38.29	41.83	74.00	-32.17	Horizontal	
8042.90	35.83	36.75	11.24	38.24	45.58	74.00	-28.42	Horizontal	
9660.72	37.20	38.20	12.17	38.08	49.49	74.00	-24.51	Horizontal	
12380.00	*							Horizontal	
4641.12	29.67	30.99	9.09	38.43	31.32	54.00	-22.68	Vertical	Average
7009.96	29.60	35.82	10.77	38.06	38.13	54.00	-15.87	Vertical	
9088.19	31.06	37.94	11.75	37.97	42.78	54.00	-11.22	Vertical	
12380.00	*							Vertical	
5448.41	26.78	32.29	9.60	38.29	30.38	54.00	-23.62	Horizontal	
8042.90	29.10	36.75	11.24	38.24	38.85	54.00	-15.15	Horizontal	
9660.72	32.50	38.20	12.17	38.08	44.79	54.00	-9.21	Horizontal	
12380.00	*							Horizontal	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*”, means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

5. Test Setup Photos of the EUT

Radiated Emission



Conducted Emission (AC Mains)



6. External and Internal Photos of the EUT

Reference to Test Report TRE1505006201

.....End of Report.....