



TEST REPORT

Applicant	Shenzhen 3nod Digital Technology Co., Ltd
Address	Building D Park 8# Road Tangxiayong Village, Industrial Zone Songgang Town, Baoan District, Shenzhen City, China.

Manufacturer or Supplier	LENOVO (BEIJING) LIMITED
Address	No.6 Chuang Ye Road Shangdi Information Industry Base, Haidian District, Beijing, China
Product	Speaker
Brand Name	lenovo _®
Model	BT410
Additional Model & Model Difference	N/A
Date of tests	Oct. 14, 2013 ~ Oct. 24, 2013

The submitted sample of the above equipment has been tested according to the requirements of the following standards:

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Venless Long Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
verless	Glyn
	Date: Oct 24 2013

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TABLE OF CONTENTS

R	ELE	ASE CONTROL RECORD	4
1	S	SUMMARY OF TEST RESULTS	5
2	N	MEASUREMENT UNCERTAINTY	5
3		SENERAL INFORMATION	
	3.1	GENERAL DESCRIPTION OF EUT	6
	3.2	DESCRIPTION OF TEST MODES	7
	3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	8
	3.4	DESCRIPTION OF SUPPORT UNITS	8
4	Т	EST TYPES AND RESULTS	9
	4.1	CONDUCTED EMISSION MEASUREMENT	9
	4.	.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	9
	4.	.1.2 TEST INSTRUMENTS	9
	4.	.1.3 TEST PROCEDURES	. 10
	4.	.1.4 DEVIATION FROM TEST STANDARD	. 10
	4.	.1.5 TEST SETUP	11
	4.	.1.6 EUT OPERATING CONDITIONS	11
	4.	.1.7 TEST RESULTS	. 12
	4.2	RADIATED EMISSION MEASUREMENT	. 14
		.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	
	4.	.2.2 TEST INSTRUMENTS	. 15
	4.	.2.3 TEST PROCEDURES	. 16
	4.	.2.4 DEVIATION FROM TEST STANDARD	. 17
	4.	.2.5 TEST SETUP	. 17
	4.	.2.6 EUT OPERATING CONDITIONS	. 17
	4.	.2.7 TEST RESULTS	. 18
	4.3	20dB BANDWIDTH MEASUREMENT	. 26
		I.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT	
		3.2 TEST INSTRUMENTS	
	4	3.3 TEST PROCEDURE	. 26
		I.3.4 DEVIATION FROM TEST STANDARD	
		I.3.5 TEST SETUP	
	4	3.6 EUT OPERATING CONDITIONS	. 27



Test Rep	ort No.:	RF131	014N062
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	4.3.7 TEST RESULTS	27
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	32
6	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE	
	EUT BY THE LAB	33



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131014N062	Original release	Oct. 24, 2013

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

<u> </u>							
APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK				
§15.203	Antenna Requirement	PASS	No antenna connector is used				
§15.207 (a)	Conducted Emission Measurement	PASS	Compliant				
§15.205	Restricted Band of Operation	PASS	Compliant				
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant				
§15.215(c)	20dB Bandwidth Test	PASS	Compliant				

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Conducted emissions	9kHz~30MHz	2.67dB	
	9KHz ~ 30MHz	2.74dB	
Radiated emissions	30MHz ~ 1GHz	4.81dB	
Nadiated emissions	1GHz ~ 18GHz	4.3dB	
	18GHz ~ 40GHz	1.94dB	

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

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Page 5 of 33 Report Version 1



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Speaker		
TEST MODEL	BT410		
FCC ID	2AA3H-BT410		
NOMINAL VOLTAGE	DC 3.7V from Battery		
MODULATION TECHNOLOGY	FHSS		
MODULATION TYPE	GFSK, 8DPSK, π/4 DQPSK		
OPERATING FREQUENCY	2402-2480MHz		
ANTENNA TYPE	PCB antenna with 0.54dBi Gain		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	USB Cable: Unshielded, Detachable 0.5m		

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and packet type. The EUT was tested under the following modes, and the final worst is marked in boldface and recorded in the report.

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION	
MODE	RE<1G	RE≥1G	PLC	BW		
А	-	-	-	V	Powered by battery with Bluetooth link	
В	√	√	√	-	Powered by USB with Bluetooth link	

Where RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

BW: 20db bandwidth

Following channel(s) was (were) selected for the test as listed below:

TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE	PACKET TYPE
Low, Middle, High	FHSS	GFSK	1M	DH1/3/5
Low, Middle, High	FHSS	π/4 DQPSK	2M	DH1/3/5
Low, Middle, High	FHSS	8DPSK	ЗМ	DH1/3/5

CHANNEL NUMBER	TESTED CHANNEL	TESTED FREQUENCY
0	Low	2402 MHz
39	Middle	2441 MHz
78	High	2480 MHz

After estimating all the combination of every test mode, the result shown as below is the worst case

TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE	PACKET TYPE
Low, Middle, High	FHSS	GFSK	1M	DH5
Low, Middle, High	FHSS	8DPSK	3M	DH5

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Page 7 of 33



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.249(2012-10) **ANSI C63.10-2009**

All test items have been performed and recorded as per the above standards.

NOTE: It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Doc). The test report has been issued separately.

3.4 DESCRIPTION OF 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	BT Tester	Rohde&Schwarz	CBT 32	1153.9000.32	N/A
2	Notebook	DELL	E6420	9H12FS1	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS						
1	AC Line: Unshielded, Detachable, 1.5m						
2	AC Line: Unshielded, Detachable 1.5m						

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4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)			
	Quasi-peak	Average		
0.15 ~ 0.5	66 to 56	56 to 46		
0.5 ~ 5	56	46		
5 ~ 30	60	50		

NOTE: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 14,13	May 13,14
Test software	ADT	ADT_Cond _V7.3.7	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in Shielding Room 553.

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4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

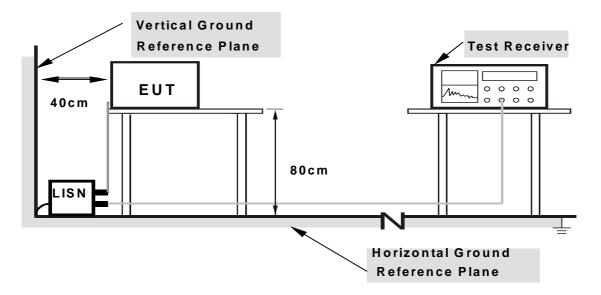
No deviation.

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4.1.5 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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.

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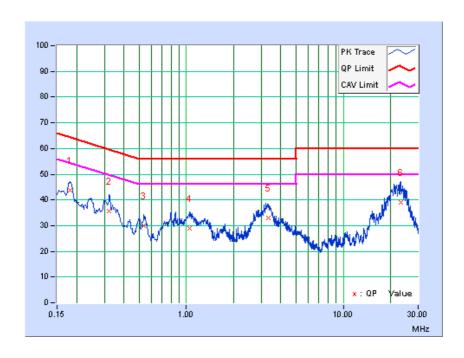
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: GFSK DH5

No	Freq. Corr. Factor			g Value (uV)]	Emissic	n Level (uV)]	Lir [dB (nit (uV)]		rgin IB)
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18128	10.57	33.08	19.28	43.65	29.85	64.43	54.43	-20.78	-24.58
2	0.32272	10.44	25.34	19.41	35.78	29.85	59.64	49.64	-23.85	-19.78
3	0.53709	10.29	19.52	12.4	29.81	22.69	56.00	46.00	-26.19	-23.31
4	1.04539	9.91	19.18	12.64	29.09	22.55	56.00	46.00	-26.91	-23.45
5	3.33665	9.83	23.06	14.71	32.89	24.54	56.00	46.00	-23.11	-21.46
6	23.13298	10.28	28.73	21.01	39.01	31.29	60.00	50.00	-20.99	-18.71

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



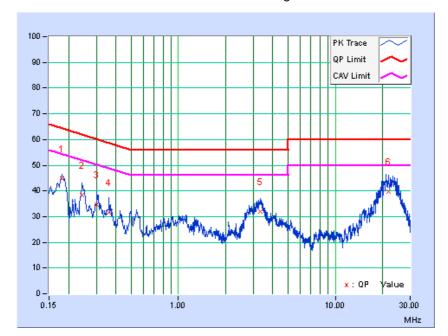
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No	I IMHZI I			g Value (uV)]		on Level (uV)]	Lir [dB	nit (uV)]	Maı (d	gin B)
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18122	10.47	34.2	19.18	44.67	29.65	64.43	54.43	-19.76	-24.78
2	0.24407	10.37	27.88	14.61	38.25	24.98	61.96	51.96	-23.71	-26.98
3	0.30249	10.45	24.37	14.32	34.82	24.77	60.17	50.17	-25.36	-25.41
4	0.36114	10.47	21.05	11.69	31.52	22.16	58.70	48.70	-27.18	-26.54
5	3.34447	9.63	22.29	14.06	31.92	23.69	56.00	46.00	-24.08	-22.31
6	21.87787	10.23	29.53	21.75	39.76	31.98	60.00	50.00	-20.24	-18.02

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/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

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna (20MHz-2GHz)	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
Horn Antenna (1GHz -18GHz)	EMCO	3117	00062558	Oct.18,12	Oct.17,14
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 04,11	Jan. 03,14
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,12	Nov. 03,13
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 31,12	Oct. 30,13
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Nov. 28,12	Nov. 27,13
Pre-Amplifier (9kHz~1GHz)	SONOMA	310D	186955	Mar. 06,13	Mar. 05,14
Test Software	ADT	ADT_Radiated _V7.6.15	N/A	N/A	N/A

NOTE:

- 1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in 10m Chamber
- 3. The FCC Site Registration No. is 502831

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4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its 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.
- d. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver/spectrum system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2 The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- Bluetooth duty factor correction is not correct as it is based on 79 channels, worst casde would be with AFH enabled and device using the minimum of 20 channels. In this case the dwell time for a DH5 packet is 0.625 * 5 per 75ms, (assuming one DH5 packet transmitted and then a DH1 packet received, 20 channels to cycle through would take 75ms on average before repeating a channel) so in any 100ms there would be, on average, two DH5 packets = 6.25ms per 100ms
 - Therefore, the duty cycle correlation factor be equal to: 20log(6.25 / 100)= -24.1 dB. Average value = peak reading + 20log(duty cycle).
- 4 All modes of operation were investigated and the worst-case emissions are reported.

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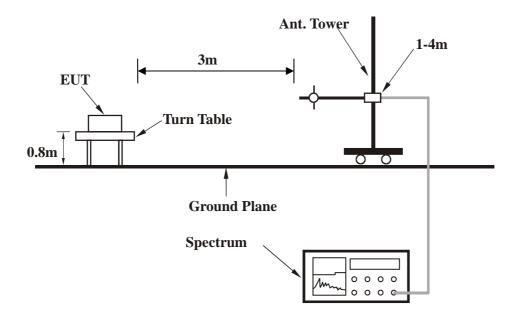
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4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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4.2.7 TEST RESULTS

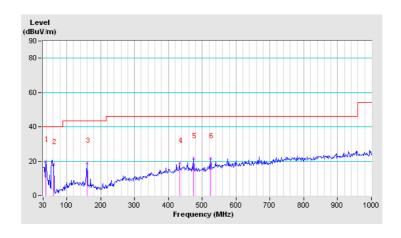
BELOW 1GHz WORST-CASE DATA: GFSK DH5

CHANNEL	Channel 0	DETECTOR	Ouggi Book (OD)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	38.08	19.9 QP	40.0	-20.2	1.00 H	269	4.35	15.50		
2	60.72	18.5 QP	40.0	-21.6	1.00 H	256	10.26	8.19		
3	159.33	19.1 QP	43.5	-24.4	1.00 H	244	7.22	11.85		
4	432.55	19.0 QP	46.0	-27.0	1.00 H	228	-0.28	19.29		
5	474.58	21.6 QP	46.0	-24.4	1.00 H	202	1.21	20.35		
6	524.70	21.8 QP	46.0	-24.2	1.00 H	215	0.64	21.18		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. For the test results, the EUT had been tested from 9KHz ~25GHz. But only the worst case was shown in test report.



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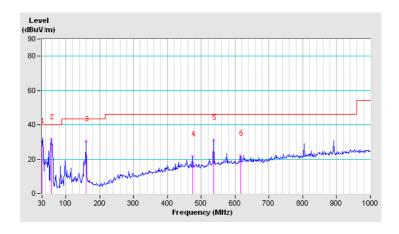


CHANNEL	TX Channel 0	DETECTOR	Ougoi Pook (OP)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	30.00	29.4 QP	40.0	-10.6	1.00 V	96	9.39	20.02			
2	57.48	31.5 QP	40.0	-8.5	1.00 V	66	22.59	8.88			
3	159.33	30.3 QP	43.5	-13.2	1.00 V	111	18.49	11.85			
4	474.58	21.9 QP	46.0	-24.1	1.00 V	27	1.51	20.35			
5	536.02	31.1 QP	46.0	-14.9	1.00 V	125	9.23	21.90			
6	615.23	22.0 QP	46.0	-24.1	1.00 V	2	-1.57	23.52			

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. For the test results, the EUT had been tested from 9KHz ~25GHz. But only the worst case was shown in test report.



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ABOVE 1GHz WORST-CASE DATA: GFSK DH5

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL Channel 0		FREQUENCY RANGE	1 ~ 25GHz
TEST VOLTAGE	11)(:3/\/	DETECTOR FUNCTION	Peak (PK) Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	2390.00	42.5 PK	74.0	-31.5	1.00 H	287	28.13	14.37		
2	2390.00	18.4 AV	54.0	-35.6	1.00 H	287	4.03	14.37		
3	2400.00	53.6 PK	74.0	-20.4	1.00 H	287	39.19	14.41		
4	2400.00	29.5 AV	54.0	-24.5	1.00 H	287	15.09	14.41		
5	*2402.00	92.7 PK	114.0	-21.3	1.00 H	287	78.28	14.42		
6	*2402.00	68.6 AV	94.0	-25.4	1.00 H	287	54.18	14.42		
7	4804.00	52.6 PK	74.0	-21.4	1.00 H	252	29.57	23.03		
8	4804.00	28.5 AV	54.0	-25.5	1.00 H	252	5.47	23.03		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
						TABLE	RAW	CORRECTION		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV)	FACTOR (dB/m)		
NO.		LEVEL			HEIGHT	ANGLE	VALUE	FACTOR		
	(MHz)	LEVEL (dBuV/m)	(dBuV/m)	(dB)	HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV)	FACTOR (dB/m)		
1	(MHz) 2390.00	LEVEL (dBuV/m) 40.3 PK	(dBuV/m) 74.0	(dB)	HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV) 21.89	FACTOR (dB/m) 18.41		
1 2	(MHz) 2390.00 2390.00	LEVEL (dBuV/m) 40.3 PK 16.2 AV	(dBuV/m) 74.0 54.0	(dB) -33.7 -37.8	HEIGHT (m) 1.09 V 1.09 V	ANGLE (Degree) 179	VALUE (dBuV) 21.89 -2.21	FACTOR (dB/m) 18.41 18.41		
1 2 3	(MHz) 2390.00 2390.00 2400.00	LEVEL (dBuV/m) 40.3 PK 16.2 AV 63.2 PK	74.0 54.0 74.0	(dB) -33.7 -37.8 -10.8	HEIGHT (m) 1.09 V 1.09 V 1.09 V	ANGLE (Degree) 179 179 179	VALUE (dBuV) 21.89 -2.21 44.69	FACTOR (dB/m) 18.41 18.41 18.51		
1 2 3 4	(MHz) 2390.00 2390.00 2400.00 2400.00	LEVEL (dBuV/m) 40.3 PK 16.2 AV 63.2 PK 39.1 AV	74.0 54.0 74.0 54.0	(dB) -33.7 -37.8 -10.8 -14.9	HEIGHT (m) 1.09 V 1.09 V 1.09 V 1.09 V	ANGLE (Degree) 179 179 179 179	VALUE (dBuV) 21.89 -2.21 44.69 20.59	FACTOR (dB/m) 18.41 18.41 18.51		
1 2 3 4 5	(MHz) 2390.00 2390.00 2400.00 2400.00 *2402.00	LEVEL (dBuV/m) 40.3 PK 16.2 AV 63.2 PK 39.1 AV 92.7 PK	74.0 54.0 74.0 54.0 114.0	(dB) -33.7 -37.8 -10.8 -14.9 -21.3	HEIGHT (m) 1.09 V 1.09 V 1.09 V 1.09 V 1.09 V	ANGLE (Degree) 179 179 179 179 179	VALUE (dBuV) 21.89 -2.21 44.69 20.59 74.17	FACTOR (dB/m) 18.41 18.41 18.51 18.51 18.53		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL Channel 39		FREQUENCY RANGE	1 ~ 25GHz
TEST VOLTAGE	DC: 3 /\/	DETECTOR FUNCTION	Peak (PK) Average (AV)

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	94.4 PK	114.0	-19.6	1.00 H	287	57.53	36.87
2	*2441.00	70.3 AV	94.0	-23.7	1.00 H	287	33.43	36.87
3	4882.00	53.3 PK	74.0	-20.7	1.00 H	152	4.07	49.23
4	4882.00	29.2 AV	54.0	-24.8	1.00 H	152	-20.03	49.23
5	7323.00	54.4 PK	74.0	-19.6	1.00 H	210	7.79	46.61
6	7323.00	30.3 AV	54.0	-23.7	1.00 H	210	-16.31	46.61
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	92.8 PK	114.0	-21.2	1.00 V	125	73.88	18.92
2	*2441.00	68.7 AV	94.0	-25.3	1.00 V	125	49.78	18.92
3	4882.00	55.5 PK	74.0	-18.5	1.00 V	250	29.64	25.86
4	4882.00	31.4 AV	54.0	-22.6	1.00 V	250	5.54	25.86
5	7323.00	56.1 PK	74.0	-17.9	1.00 V	114	26.35	29.75
6	7323.00	32.0 AV	54.0	-22.0	1.00 V	114	2.25	29.75

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 78		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	DC 3.7V		Peak (PK) Average (AV)	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2480.00	93.2 PK	114.0	-20.8	1.00 H	325	78.47	14.73		
2	*2480.00	69.1 AV	94.0	-24.9	1.00 H	325	54.37	14.73		
3	2483.50	49.5 PK	74.0	-24.5	1.00 H	325	34.76	14.74		
4	2483.50	25.4 AV	54.0	-28.6	1.00 H	325	10.66	14.74		
5	4960.00	58.1 PK	74.0	-15.9	1.02 H	300	34.50	23.60		
6	4960.00	34.0 AV	54.0	-20.0	1.02 H	300	10.40	23.60		
7	7440.00	56.4 PK	74.0	-17.6	1.00 H	295	26.66	29.74		
8	7440.00	32.3 AV	54.0	-21.7	1.00 H	295	2.56	29.74		
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
NO .		LEVEL			HEIGHT	ANGLE	VALUE	FACTOR		
	(MHz)	LEVEL (dBuV/m)	(dBuV/m)	(dB)	HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV)	FACTOR (dB/m)		
1	(MHz) *2480.00	LEVEL (dBuV/m) 94.2 PK	(dBuV/m) 114.0	(dB) -19.8	HEIGHT (m) 1.03 V	ANGLE (Degree)	VALUE (dBuV) 74.89	FACTOR (dB/m) 19.31		
1 2	(MHz) *2480.00 *2480.00	LEVEL (dBuV/m) 94.2 PK 70.1 AV	(dBuV/m) 114.0 94.0	(dB) -19.8 -23.9	HEIGHT (m) 1.03 V 1.03 V	ANGLE (Degree) 176 176	VALUE (dBuV) 74.89 50.79	FACTOR (dB/m) 19.31 19.31		
1 2 3	*2480.00 *2480.00 2483.50	LEVEL (dBuV/m) 94.2 PK 70.1 AV 50.4 PK	(dBuV/m) 114.0 94.0 74.0	-19.8 -23.9 -23.6	HEIGHT (m) 1.03 V 1.03 V 1.03 V	ANGLE (Degree) 176 176 176	VALUE (dBuV) 74.89 50.79 31.05	FACTOR (dB/m) 19.31 19.31 19.35		
1 2 3 4	*2480.00 *2480.00 2483.50 2483.50	LEVEL (dBuV/m) 94.2 PK 70.1 AV 50.4 PK 26.3 AV	(dBuV/m) 114.0 94.0 74.0 54.0	-19.8 -23.9 -23.6 -27.7	HEIGHT (m) 1.03 V 1.03 V 1.03 V 1.03 V	ANGLE (Degree) 176 176 176 176	VALUE (dBuV) 74.89 50.79 31.05 6.95	FACTOR (dB/m) 19.31 19.31 19.35 19.35		
1 2 3 4 5	*2480.00 *2480.00 2483.50 2483.50 4960.00	LEVEL (dBuV/m) 94.2 PK 70.1 AV 50.4 PK 26.3 AV 57.5 PK	(dBuV/m) 114.0 94.0 74.0 54.0 74.0	-19.8 -23.9 -23.6 -27.7 -16.5	HEIGHT (m) 1.03 V 1.03 V 1.03 V 1.03 V 1.00 V	ANGLE (Degree) 176 176 176 176 214	VALUE (dBuV) 74.89 50.79 31.05 6.95 31.54	FACTOR (dB/m) 19.31 19.31 19.35 19.35 25.96		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL Channel 0		FREQUENCY RANGE	1 ~ 25GHz
TEST VOLTAGE	DC 3 /\/	DETECTOR FUNCTION	Peak (PK) Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	43.5 PK	74.0	-30.5	1.00 H	85	29.13	14.37
2	2390.00	19.4 AV	54.0	-34.6	1.00 H	85	5.03	14.37
3	2400.00	58.8 PK	74.0	-15.2	1.00 H	65	44.39	14.41
4	2400.00	34.7 AV	54.0	-19.3	1.00 H	65	20.29	14.41
5	*2402.00	90.5 PK	114.0	-23.5	1.00 H	256	76.08	14.42
6	*2402.00	66.4 AV	94.0	-27.6	1.00 H	256	51.98	14.42
7	4804.00	53.5 PK	74.0	-20.5	1.00 H	322	30.47	23.03
8	4804.00	29.4 AV	54.0	-24.6	1.00 H	322	6.37	23.03
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	I						
	2390.00	46.6 PK	74.0	-27.4	1.07 V	180	28.19	18.41
2	2390.00	46.6 PK 22.5 AV	74.0 54.0	-27.4 -31.5	1.07 V 1.07 V	180 180	28.19 4.09	18.41 18.41
3								
\vdash	2390.00	22.5 AV	54.0	-31.5	1.07 V	180	4.09	18.41
3	2390.00 2400.00	22.5 AV 60.1 PK	54.0 74.0	-31.5 -13.9	1.07 V 1.07 V	180 180	4.09 41.59	18.41 18.51
3	2390.00 2400.00 2400.00	22.5 AV 60.1 PK 26.0 AV	54.0 74.0 54.0	-31.5 -13.9 -28.0	1.07 V 1.07 V 1.07 V	180 180 180	4.09 41.59 7.49	18.41 18.51 18.51
3 4 5	2390.00 2400.00 2400.00 *2402.00	22.5 AV 60.1 PK 26.0 AV 92.2 PK	54.0 74.0 54.0 114.0	-31.5 -13.9 -28.0 -21.8	1.07 V 1.07 V 1.07 V 1.07 V	180 180 180 180	4.09 41.59 7.49 73.67	18.41 18.51 18.51 18.53

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 39		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	DC 3.7V	DETECTOR FUNCTION	Peak (PK) Average (AV)	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	91.1 PK	114.0	-22.9	1.00 H	288	76.52	14.58
2	*2441.00	67.0 AV	94.0	-27.0	1.00 H	288	52.42	14.58
3	4882.00	52.7 PK	74.0	-21.3	1.00 H	211	29.39	23.31
4	4882.00	28.6 AV	54.0	-25.4	1.00 H	211	5.29	23.31
5	7323.00	54.1 PK	74.0	-19.9	1.00 H	200	24.60	29.50
6	7323.00	30.0 AV	54.0	-24.0	1.00 H	200	0.50	29.50
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	-
NO.	FREQ. IMIT MARGIN IMIT IMIT							CORRECTION FACTOR (dB/m)
1	*2441.00	92.5 PK	114.0	-21.5	1.00 V	254	73.58	18.92
2	*2441.00	68.4 AV	94.0	-25.6	1.00 V	254	49.48	18.92
3	4882.00	53.4 PK	74.0	-20.6	1.00 V	350	27.54	25.86
4	4882.00	29.3 AV	54.0	-24.7	1.00 V	350	3.44	25.86
5	7323.00	54.6 PK	74.0	-19.4	1.00 V	300	24.85	29.75
6	7323.00	30.5 AV	54.0	-23.5	1.00 V	300	0.75	29.75

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 78		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	DC 3.7V	DETECTOR FUNCTION	Peak (PK) Average (AV)	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	93.2 PK	114.0	-20.8	1.00 H	316	78.47	14.73
2	*2480.00	69.1 AV	94.0	-24.9	1.00 H	316	54.37	14.73
3	2483.50	49.3 PK	74.0	-24.7	1.00 H	316	34.56	14.74
4	2483.50	25.2 AV	54.0	-28.8	1.00 H	316	10.46	14.74
5	4960.00	54.2 PK	74.0	-19.8	1.00 H	120	30.60	23.60
6	4960.00	30.1 AV	54.0	-23.9	1.00 H	120	6.50	23.60
7	7440.00	55.4 PK	74.0	-18.6	1.00 H	230	25.66	29.74
8	7440.00	31.3 AV	54.0	-22.7	1.00 H	230	1.56	29.74
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	92.4 PK	114.0	-21.6	1.00 V	320	73.09	19.31
2	*2480.00	68.3 AV	94.0	-25.7	1.00 V	320	48.99	19.31
3	2483.50	48.2 PK	74.0	-25.8	1.00 V	314	28.85	19.35
4	2483.50	24.1 AV	54.0	-29.9	1.00 V	314	4.75	19.35
5	4960.00	54.8 PK	74.0	-19.2	1.00 V	125	28.84	25.96
6	4960.00	30.7 AV	54.0	-23.3	1.00 V	125	4.74	25.96
7	7440.00	51.1 PK	74.0	-22.9	1.00 V	140	21.01	30.09
8	7440.00	27.0 AV	54.0	-27.0	1.00 V	140	-3.09	30.09

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.5. " * ": Fundamental frequency.

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4.3 20dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), 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.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Signal Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 26,12	Nov. 25,13
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
Bluetooth tester	Rohde&Schwarz	CBT	100325	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test site was performed in Oven room

4.3.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

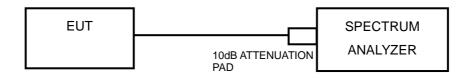
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4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

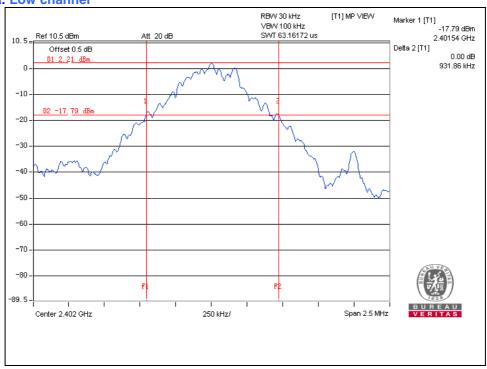
GFSK DH5

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2402	0.932
Middle	2441	0.932
High	2480	0.929

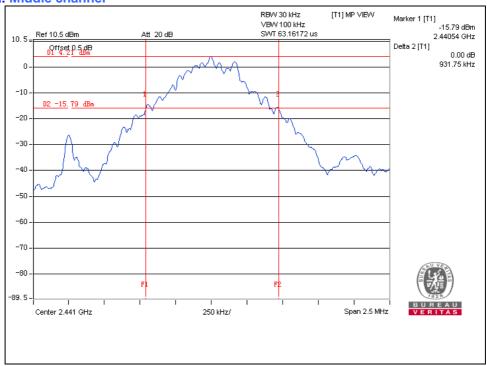
Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



Test Data: Low channel



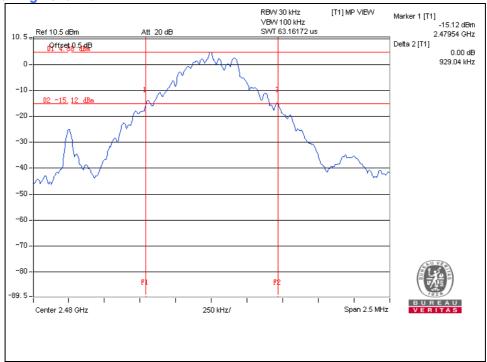
Test Data: Middle channel



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Test Data: High channel



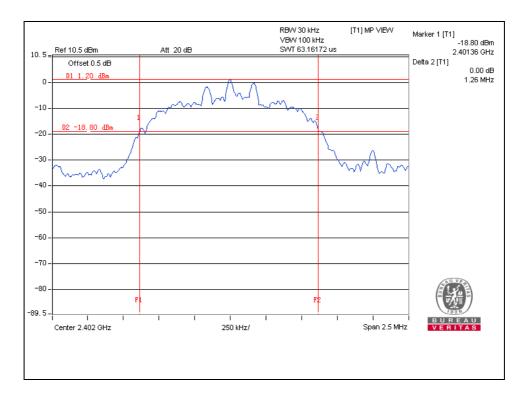
Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



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CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)	
Low	2402	1.26	
Middle	2441	1.25	
Hight	2480	1.25	

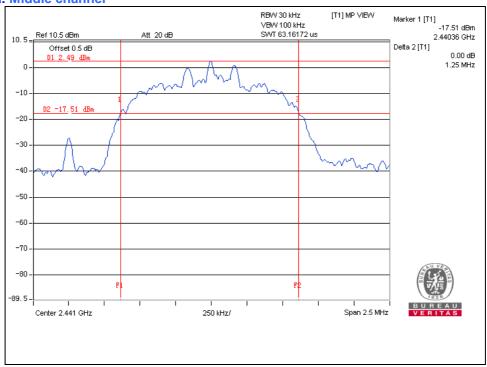
Test Data: Low channel



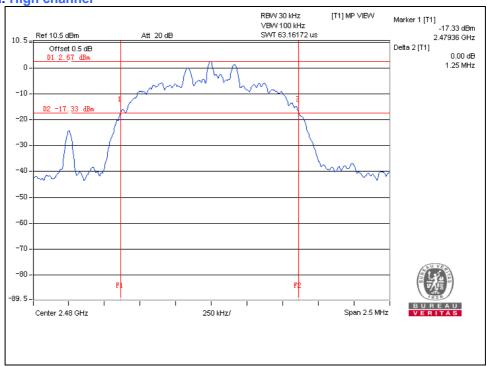
Tel: +86 769 8593 5656 Fax: +86 769 8593 1080



Test Data: Middle channel



Test Data: High channel



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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---

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