



TEST REPORT

Applicant	SHENZHEN QI SHENGLONG INDUSTRIALIST CO., LTD.
Address	5F.,Blk 6A, Jing Nan Industry, Bai Ge long, Buji, Shenzhen, China

Manufacturer or Supplier	DONGGUAN FEIHAO INDUSTRIALIST CO., LTD
Address	No.8,Fengyi Road, Dakan Village, Huangjiang, DongGuan, China
Product:	BLUETOOTH HEADSET WITH HANDSFREE SUPPORT
Brand Name:	N/A
Model:	MA-861-F
Additional Model & Model Difference:	N/A
Date of tests:	Apr. 01 ~ Apr. 18, 2013

the tests have been carried out according to the requirements of the following standard:

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

Tested by Glyn He Project Engineer / EMC Department	Approved by Sam Tung Manager / EMC Department
Glyn	Date: Apr. 18, 2013

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130329N025	Original release	Apr. 18, 2013

 $\textbf{Email:} \ \underline{\text{customerservice.dg@cn.bureauveritas.com}}$

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

A	APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)							
STANDARD SECTION TEST TYPE AND LIMIT RESULT REMARK								
§15.203	Antenna Requirement	PASS	Compliant					
§15.207 (a)	Conducted Emission	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	2.44dB
	30MHz ~ 1GHz	3.64dB
Radiated emissions	1GHz ~ 18GHz	2.2dB
	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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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BLUETOOTH HEADSET WITH HANDSFREE SUPPORT
MODEL NO.	MA-861-F
FCC ID	Y56QSLMA861F
NOMINAL VOLTAGE	DC 3.7V From Battery or DC 5V From PC
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, 8DPSK, π/4 DQPSK
OPERATING FREQUENCY	2402-2480MHz
ANTENNA TYPE	Integral PCB Antenna with 0dBi antenna gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Cable: Unshielded, Detachable 0.7m with one core

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, XYZ axis and packet type. The worst case was found when the EUT was positioned on X axis for radiated emission. 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		
Α	\checkmark	\checkmark	V	V	Powered by PC with Bluetooth link	
В	√	-	-	-	Powered by battery 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	3M	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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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 (15.249) 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 (Verification). 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	PC EMC01	HP	A6608CN	3CR83825X3	N/A
2	Mouse EMC01	DELL	MOC5UO	H0K00K92	N/A
3	Printer EMC01	HP	hp LaserJet 1300	CNSJF75989	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
	DC Line: Unshielded, Detachable 1.8m
	AC Line: Unshielded, Detachable 1.8m DC Line: Unshielded, Detachable 1.8m

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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.
- 3. 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 15,12	May 14,13
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 15,12	May 14,13
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100168	May 15,12	May 14,13
Impedance Stabilization Network	TESEQ	ISN T800	27957	Oct.10,12	Oct.09,13
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 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) was 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.

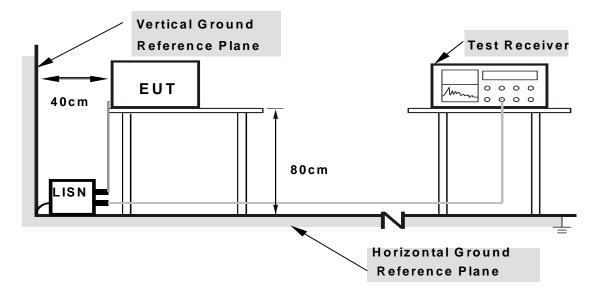
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4.1.5 TEST SETUP



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

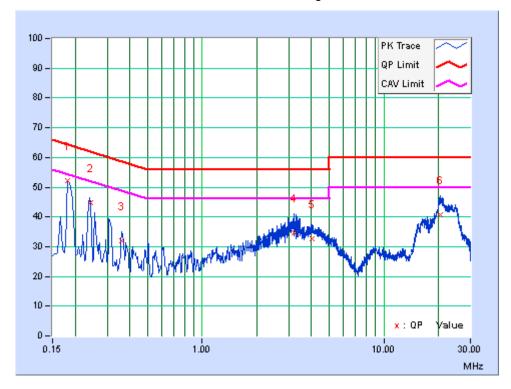
CONDUCTED WORST-CASE DATA

PHASE	Line 1	6dB BANDWIDTH	9kHz
-------	--------	---------------	------

No	Freq. [MHz]	Corr. Factor		g Value (uV)]		n Level (uV)]		nit (uV)]		rgin B)
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18162	10.47	41.86	26.10	52.33	36.57	64.41	54.41	-12.08	-17.84
2	0.24169	10.33	34.53	18.39	44.86	28.72	62.04	52.04	-17.18	-23.32
3	0.36071	10.31	21.76	9.07	32.07	19.38	58.71	48.71	-26.64	-29.33
4	3.21627	9.79	24.94	18.00	34.73	27.79	56	46	-21.27	-18.21
5	4.01862	9.76	22.81	19.70	32.57	29.46	56	46	-23.43	-16.54
6	20.40499	10.11	30.72	23.07	40.83	33.18	60	50	-19.17	-16.82

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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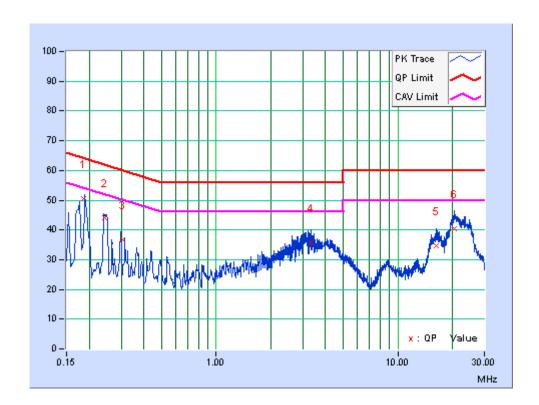


PHASE	Neutral	6dB BANDWIDTH	9kHz
			· · · · · · · · · · · · · · · · · · ·

No	Freq. [MHz]	Corr. Factor (dB)		g Value (uV)]		on Level (uV)]	Lir [dB (nit (uV)]		gin B)
		(ub)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18658	10.41	40.10	25.53	50.51	35.94	64.19	54.19	-13.68	-18.25
2	0.24169	10.27	33.88	17.95	44.15	28.22	62.04	52.04	-17.89	-23.82
3	0.30555	10.35	26.35	12.67	36.70	23.02	60.09	50.09	-23.39	-27.07
4	3.34314	9.47	26.14	19.45	35.61	28.92	56	46	-20.39	-17.08
5	16.35306	9.91	24.91	16.92	34.82	26.83	60	50	-25.18	-23.17
6	20.58039	10.02	30.42	22.99	40.44	33.01	60	50	-19.56	-16.99

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	May 02,12	May 01,13
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 15,12	May 14,13
Bilog Antenna (25MHz-2GHz)	Teseq	CBL 6111D	27089	Jul. 16,12	Jul. 15,13
Bilog Antenna	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
Horn Antenna (1GHz -18GHz)	ЕМСО	3117	00062558	Oct.18,12	Oct.17,13
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B		May 31,12	May 30,13
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
Bluetooth tester	Rohde&Schwarz	CBT	100325	N/A	N/A
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 and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.

2. The test was performed in 10m Chamber

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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 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.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

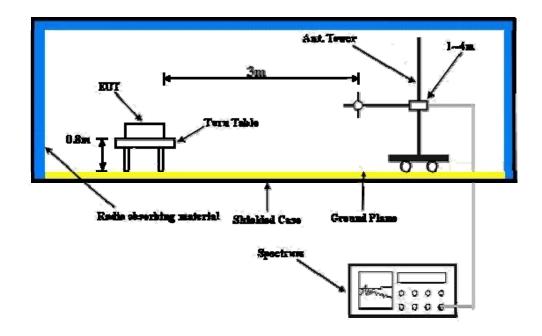
4.2.4 DEVIATION FROM TEST STANDARD

No deviation

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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

Same as item 4.1.6

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4.2.7 TEST RESULTS

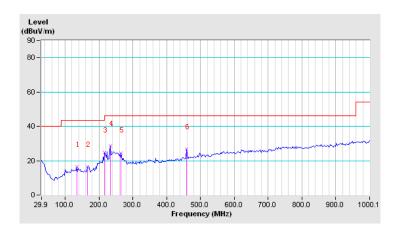
BELOW 1GHz WORST-CASE DATA: GFSK DH5

CHANNEL	Channel 39	DETECTOR	Ouasi Boak (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	134.20	16.4 QP	43.5	-27.1	1.65 H	196	3.67	12.74			
2	165.73	16.4 QP	43.5	-27.1	1.65 H	165	5.16	11.26			
3	216.66	24.7 QP	46.0	-21.3	1.65 H	123	13.74	10.92			
4	233.64	28.6 QP	46.0	-17.4	1.65 H	85	16.36	12.20			
5	265.17	24.6 QP	46.0	-21.4	1.65 H	144	9.44	15.13			
6	459.21	26.7 QP	46.0	-19.4	1.65 H	59	7.30	19.35			

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.



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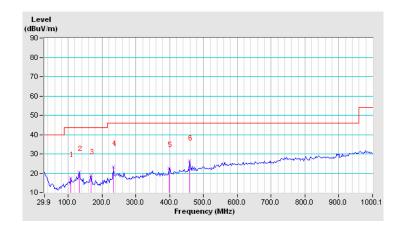


CHANNEL	Channel 39	DETECTOR	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-reak (QP)

	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	107.52	17.5 QP	43.5	-26.0	1.00 V	175	5.54	11.94		
2	131.77	20.6 QP	43.5	-22.9	1.00 V	80	7.86	12.78		
3	168.15	18.9 QP	43.5	-24.6	1.00 V	125	7.81	11.12		
4	233.64	23.1 QP	46.0	-22.9	1.00 V	58	10.94	12.20		
5	398.58	22.5 QP	46.0	-23.5	1.00 V	101	4.68	17.82		
6	459.21	26.2 QP	46.0	-19.8	1.00 V	28	6.83	19.35		

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.



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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	120Vac 60 Hz		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	2400.00	69.8 PK	74.0	-4.2	1.00 H	287	33.30	36.50
2	2400.00	39.7 AV	54.0	-14.3	1.00 H	287	3.20	36.50
3	2402.00	95.1 PK	114.0	-18.9	1.00 H	287	58.58	36.52
4	2402.00	65.0 AV	94.0	-29.0	1.00 H	287	28.48	36.52
5	4804.00	59.4 PK	74.0	-14.6	1.08 H	332	10.15	49.25
6	4804.00	29.3 AV	54.0	-24.7	1.08 H	332	-19.95	49.25
		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)
1	2400.00	65.4 PK	74.0	-8.6	1.00 V	260	28.90	36.50
2	2400.00	35.3 AV	54.0	-18.7	1.00 V	260	-1.20	36.50
3	2402.00	90.2 PK	114.0	-23.8	1.00 V	260	53.68	36.52
4	2402.00	60.1 AV	94.0	-33.9	1.00 V	260	23.58	36.52
5	4804.00	60.1 PK	74.0	-13.9	1.00 V	205	10.85	49.25
6	4804.00	30.0 AV	54.0	-24.0	1.00 V	205	-19.25	49.25

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.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1dB
- 7. Average value = peak reading + 20log(duty cycle).

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 39		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	120Vac 60 Hz	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	94.3 PK	114.0	-19.7	1.00 H	284	57.43	36.87
2	2441.00	64.2 AV	94.0	-29.8	1.00 H	284	27.33	36.87
3	4882.00	60.5 PK	74.0	-13.5	1.00 H	330	11.27	49.23
4	4882.00	30.4 AV	54.0	-23.6	1.00 H	330	-18.83	49.23
5	7323.00	59.8 PK	74.0	-14.2	1.04 H	154	13.19	46.61
6	7323.00	29.7 AV	54.0	-24.3	1.04 H	154	-16.91	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	89.7 PK	114.0	-24.3	1.00 V	258	52.83	36.87
2	2441.00	59.6 AV	94.0	-34.4	1.00 V	258	22.73	36.87
3	4882.00	60.2 PK	74.0	-13.8	1.00 V	200	10.97	49.23
4	4882.00	30.1 AV	54.0	-23.9	1.00 V	200	-19.13	49.23
5	7323.00	59.6 PK	74.0	-14.4	1.13 V	250	12.99	46.61
6	7323.00	29.5 AV	54.0	-24.5	1.13 V	250	-17.11	46.61

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.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: $20\log(3.125 / 100) = -30.1 \text{ dB}$.
- 7. Average value = peak reading + 20log(duty cycle).

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 78		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	120Vac 60 Hz		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	95.8 PK	114.0	-18.2	1.00 H	285	58.59	37.21		
2	2480.00	65.7 AV	94.0	-28.3	1.00 H	285	28.49	37.21		
3	2483.50	54.2 PK	74.0	-19.8	1.00 H	285	16.96	37.24		
4	2483.50	24.1 AV	54.0	-29.9	1.00 H	285	-13.14	37.24		
5	4960.00	60.1 PK	74.0	-13.9	1.07 H	335	10.89	49.21		
6	4960.00	30.0 AV	54.0	-24.0	1.07 H	335	-19.21	49.21		
7	7440.00	59.5 PK	74.0	-14.5	1.27 H	160	12.80	46.70		
8	7440.00	29.4 AV	54.0	-24.6	1.27 H	160	-17.30	46.70		
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
		7 11 1 1 1 1 1 1 1 1 1 1			• • • • • • • • • • • • • • • • • • • 		. •			
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 .		EMISSION LEVEL	LIMIT	MARGIN	ANTENNA HEIGHT	TABLE ANGLE	RAW VALUE	FACTOR		
	(MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)		
1	(MHz) 2480.00	EMISSION LEVEL (dBuV/m) 88.7 PK	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m) 1.00 V	TABLE ANGLE (Degree)	RAW VALUE (dBuV) 51.49	FACTOR (dB/m) 37.21		
1 2	(MHz) 2480.00 2480.00	EMISSION LEVEL (dBuV/m) 88.7 PK 58.6 AV	LIMIT (dBuV/m) 114.0 94.0	MARGIN (dB) -25.3 -35.4	ANTENNA HEIGHT (m) 1.00 V 1.00 V	TABLE ANGLE (Degree) 259 259	RAW VALUE (dBuV) 51.49 21.39	FACTOR (dB/m) 37.21 37.21		
1 2 3	(MHz) 2480.00 2480.00 2483.50	EMISSION LEVEL (dBuV/m) 88.7 PK 58.6 AV 50.2 PK	LIMIT (dBuV/m) 114.0 94.0 74.0	MARGIN (dB) -25.3 -35.4 -23.8	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 259 259 259	RAW VALUE (dBuV) 51.49 21.39 12.96	FACTOR (dB/m) 37.21 37.21 37.24		
1 2 3 4	(MHz) 2480.00 2480.00 2483.50 2483.50	EMISSION LEVEL (dBuV/m) 88.7 PK 58.6 AV 50.2 PK 20.1 AV	LIMIT (dBuV/m) 114.0 94.0 74.0 54.0	MARGIN (dB) -25.3 -35.4 -23.8 -33.9	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 259 259 259 259	RAW VALUE (dBuV) 51.49 21.39 12.96 -17.14	FACTOR (dB/m) 37.21 37.21 37.24 37.24		
1 2 3 4 5	(MHz) 2480.00 2480.00 2483.50 2483.50 4960.00	EMISSION LEVEL (dBuV/m) 88.7 PK 58.6 AV 50.2 PK 20.1 AV 59.3 PK	LIMIT (dBuV/m) 114.0 94.0 74.0 54.0 74.0	-25.3 -35.4 -23.8 -33.9 -14.7	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 259 259 259 259 203	RAW VALUE (dBuV) 51.49 21.39 12.96 -17.14 10.09	FACTOR (dB/m) 37.21 37.21 37.24 37.24 49.21		

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.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
- 7. Average value = peak reading + 20log(duty cycle)

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BT 8DPSK DH5

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 0		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	120Vac 60 Hz	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	2400.00	62.6 PK	74.0	-11.4	1.00 H	286	26.10	36.50
2	2400.00	32.5 AV	54.0	-21.5	1.00 H	286	-4.00	36.50
3	2402.00	92.3 PK	114.0	-21.7	1.00 H	286	55.78	36.52
4	2402.00	62.2 AV	94.0	-31.8	1.00 H	286	25.68	36.52
5	4804.00	60.5 PK	74.0	-13.5	1.00 H	290	11.25	49.25
6	4804.00	30.4 AV	54.0	-23.6	1.00 H	290	-18.85	49.25
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL	LIMIT	MARGIN	ANTENNA HEIGHT	TABLE ANGLE	RAW VALUE	CORRECTION FACTOR
	((dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)
1	2400.00	(dBuV/m) 65.6 PK	(dBuV/m) 74.0	-8.4				(dB/m) 36.50
1 2	` ′	,	` ′	` '	(m)	(Degree)	(dBuV)	
⊢ <u>ʻ</u> ⊣	2400.00	65.6 PK	74.0	-8.4	(m) 1.00 V	(Degree) 263	(dBuV) 29.10	36.50
2	2400.00 2400.00	65.6 PK 35.5 AV	74.0 54.0	-8.4 -18.5	(m) 1.00 V 1.00 V	(Degree) 263 263	(dBuV) 29.10 -1.00	36.50 36.50
2	2400.00 2400.00 2402.00	65.6 PK 35.5 AV 87.6 PK	74.0 54.0 114.0	-8.4 -18.5 -26.4	(m) 1.00 V 1.00 V 1.00 V	(Degree) 263 263 263	(dBuV) 29.10 -1.00 51.08	36.50 36.50 36.52

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. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
- 7. Average value = peak reading + 20log(duty cycle).

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 39	FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	1120\/ac 60 Hz		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	91.9 PK	114.0	-22.1	1.00 H	280	55.03	36.87
2	2441.00	61.8 AV	94.0	-32.2	1.00 H	280	24.93	36.87
3	4882.00	59.7 PK	74.0	-14.3	1.10 H	285	10.47	49.23
4	4882.00	29.6 AV	54.0	-24.4	1.10 H	285	-19.63	49.23
5	7323.00	59.6 PK	74.0	-14.4	1.00 H	165	12.99	46.61
6	7323.00	29.5 AV	54.0	-24.5	1.00 H	165	-17.11	46.61
		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)
1	2441.00	87.9 PK	114.0	-26.1	1.00 V	278	51.03	36.87
2	2441.00	57.8 AV	94.0	-36.2	1.00 V	278	20.93	36.87
3	4882.00	59.8 PK	74.0	-14.2	1.00 V	192	10.57	49.23
5								
4	4882.00	29.7 AV	54.0	-24.3	1.00 V	192	-19.53	49.23
-	4882.00 7323.00	29.7 AV 58.3 PK	54.0 74.0	-24.3 -15.7	1.00 V 1.00 V	192 253	-19.53 11.69	49.23 46.61

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.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: $20\log(3.125 / 100) = -30.1 \text{ dB}$.
- 7. Average value = peak reading + 20log(duty cycle).

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EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 78	FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE	120Vac 60 Hz	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	93.8 PK	114.0	-20.2	1.00 H	281	56.59	37.21
2	2480.00	63.7 AV	94.0	-30.3	1.00 H	281	26.49	37.21
3	2483.50	55.5 PK	74.0	-18.5	1.00 H	281	18.26	37.24
4	2483.50	25.4 AV	54.0	-28.6	1.00 H	281	-11.84	37.24
5	4960.00	59.6 PK	74.0	-14.4	1.00 H	280	10.39	49.21
6	4960.00	29.5 AV	54.0	-24.5	1.00 H	280	-19.71	49.21
7	7440.00	57.8 PK	74.0	-16.2	1.15 H	163	11.10	46.70
8	7440.00	27.7 AV	54.0	-26.3	1.15 H	163	-19.00	46.70
		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	89.1 PK	114.0	-24.9	1.00 V	260	51.89	37.21
2	2480.00	59.0 AV	94.0	-35.0	1.00 V	260	21.79	37.21
3	2483.50	49.4 PK	74.0	-24.6	1.00 V	260	12.16	37.24
4	2483.50	19.3 AV	54.0	-34.7	1.00 V	260	-17.94	37.24
5	4960.00	59.3 PK	74.0	-14.7	1.08 V	200	10.09	49.21
6	4960.00	29.2 AV	54.0	-24.8	1.08 V	200	-20.01	49.21
7	7440.00	59.4 PK	74.0	-14.6	1.02 V	246	12.70	46.70
8	7440.00	29.3 AV	54.0	-24.7	1.02 V	246	-17.40	46.70

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.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
- 7. Average value = peak reading + 20log(duty cycle).

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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.
Spectrum Analyzer	Agilent	E4446A	MY46180622	May 02,12	May 01,13
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 15,12	May 14,13
Bilog Antenna (25MHz-2GHz)	Teseq	CBL 6111D	27089	Jul. 16,12	Jul. 15,13
Horn Antenna (1GHz -18GHz)	ЕМСО	3117	00062558	Oct.18,12	Oct.17,13
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 31,12	May 30,13
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
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 and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.

2. The test was performed in 10m Chamber

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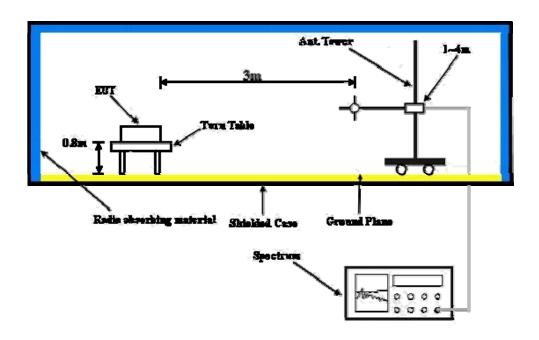
4.3.3 TEST PROCEDURE

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The spectrum analyzer was receiving the maximum emission level. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



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4.3.6 EUT OPERATING CONDITIONS

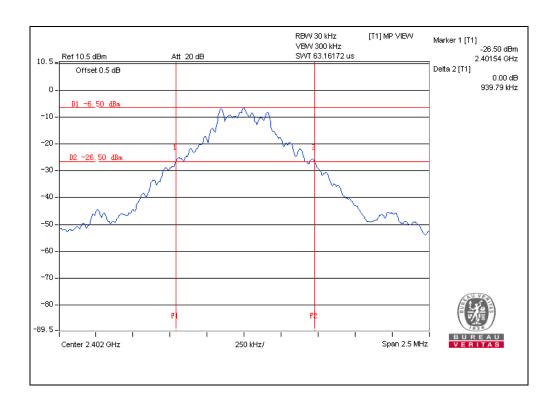
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

GFSK DH5

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2402	0.9398
Middle	2441	0.9395
High	2480	0.9375

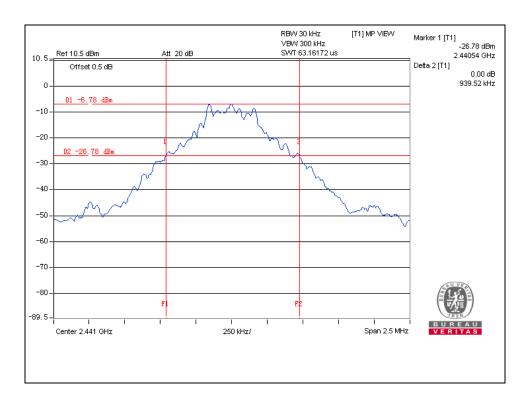
Test Data: Low channel



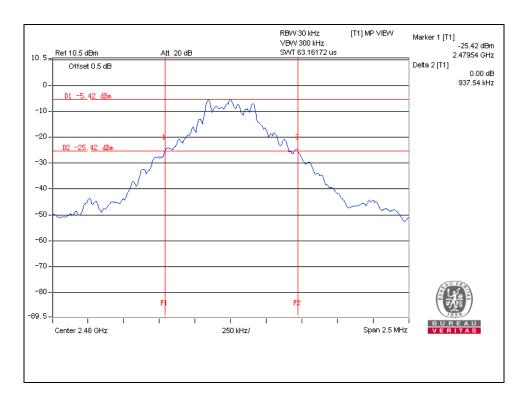
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Test Data: Middle channel



Test Data: High channel



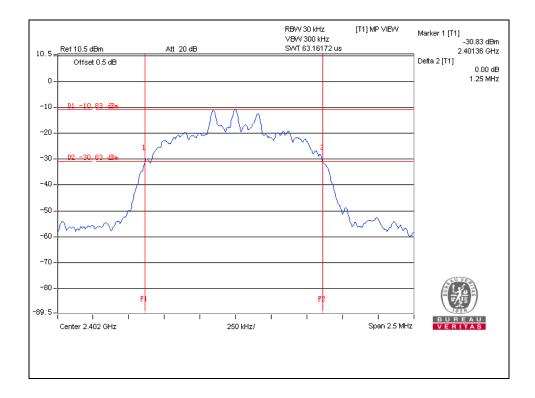
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8DPSK DH5

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

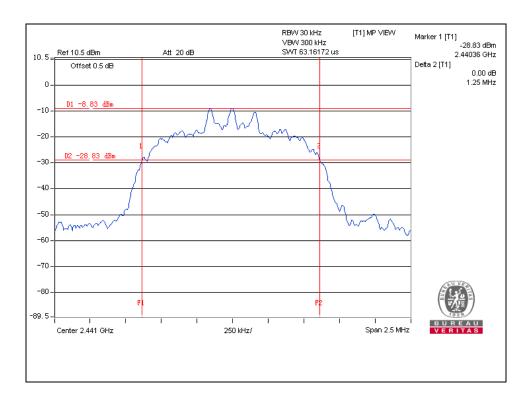
Test Data: Low channel



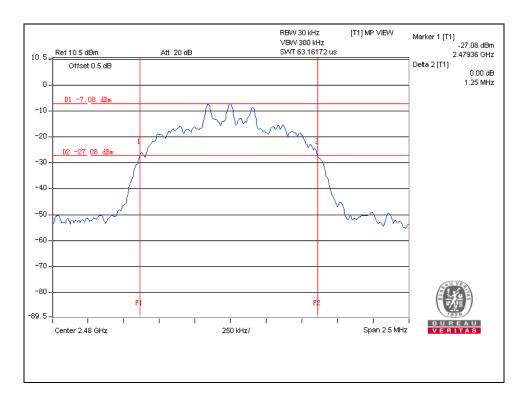
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Test Data: Middle channel



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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APPENDIX A - MODIFICATIONS RECORDERS FOR 6 **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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