



BUREAU
VERITAS

Test Report No.: RF140619N017

TEST REPORT

Applicant	Zhongshan K-mate General Electronics Co., Ltd
Address	NO.2 ,5th Xinsheng Street, Gangkou Town, Zhongshan City, Guangdong, China

Manufacturer or Supplier	Zhongshan K-mate General Electronics Co., Ltd
Address	NO.2 ,5th Xinsheng Street, Gangkou Town, Zhongshan City, Guangdong, China
Product	Bluetooth Stereo Headset
Brand Name	K-mate
Model	BTH066N
Additional Model & Model Difference	BTH066; See item 3.1
Date of tests	Dec. 02 ~ Dec. 16, 2013

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

FCC Part 15, Subpart C, Section 15.249(2012-10)

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

Date: Jul. 03, 2014

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131129N029	Original release	Dec. 16, 2013
RF140619N017	Based on the original report RF131129N029 change applicant ,manufacturer address and model Number, increase one more battery and update the EUT photos	Jul. 03, 2014



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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	2.67dB
Radiated emissions	9KHz ~ 30MHz	2.74dB
	30MHz ~ 1GHz	4.81dB
	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 $k = 2$.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Bluetooth Stereo Headset
TEST MODEL	BTH066N
ADDITIONAL MODEL	BTH066
FCC ID	WAD-BTH066
NOMINAL VOLTAGE	DC 5V from USB or DC 3.7V from battery
MODULATION TECHNOLOGY	FHSS, DTS
MODULATION TYPE	GFSK, 8DPSK, $\pi/4$ DQPSK, BT-LE(GFSK) for DTS
BLUETOOTH VERSION	Bluetooth V2.1+EDR Bluetooth V4.0
OPERATING FREQUENCY	2402-2480MHz
ANTENNA TYPE	Integral Ceramic Antenna, 2dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Cable: Unshielded, Detachable. 0.86m

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.
3. This report is issued for change applicant, manufacturer address and model Number, increase one more battery and update the EUT photos base on the original report RF131129N029.



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 MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	BW	
A	√	√	√	√	Powered by USB with Bluetooth link
B	√	-	-	-	Powered by battery with Bluetooth link

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
BW: 20db bandwidth

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

For BT2.1+EDR:

TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE	PACKET TYPE
Low, Middle, High	FHSS	GFSK	1M	DH1/3/5
Low, Middle, High	FHSS	$\pi/4$ 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



For BT4.0:

Forty channels are provided for BT-LE(GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
BT-LE	0 to 39	0,19,39	DSS	GFSK	1



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 (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	BT Tester	Rohde&Schwarz	CBT 32	1153.9000.32	N/A
2	Notebook	HP	4431s	CNU238944Z	N/A
3	Printer	Lenovo	LJ2200L	LP02857415 48001408	N/A
4	mouse	DELL	MOC5UO	J0Z008H3	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Cable: Unshielded, Detachable, 1.5m
2	AC Cable: Unshielded, Detachable, 1.5m
3	AC Cable: Unshielded, Detachable, 1.5m
4	Mouse line: Unshielded, Detachable 1.8m



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 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_Conc _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.



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.

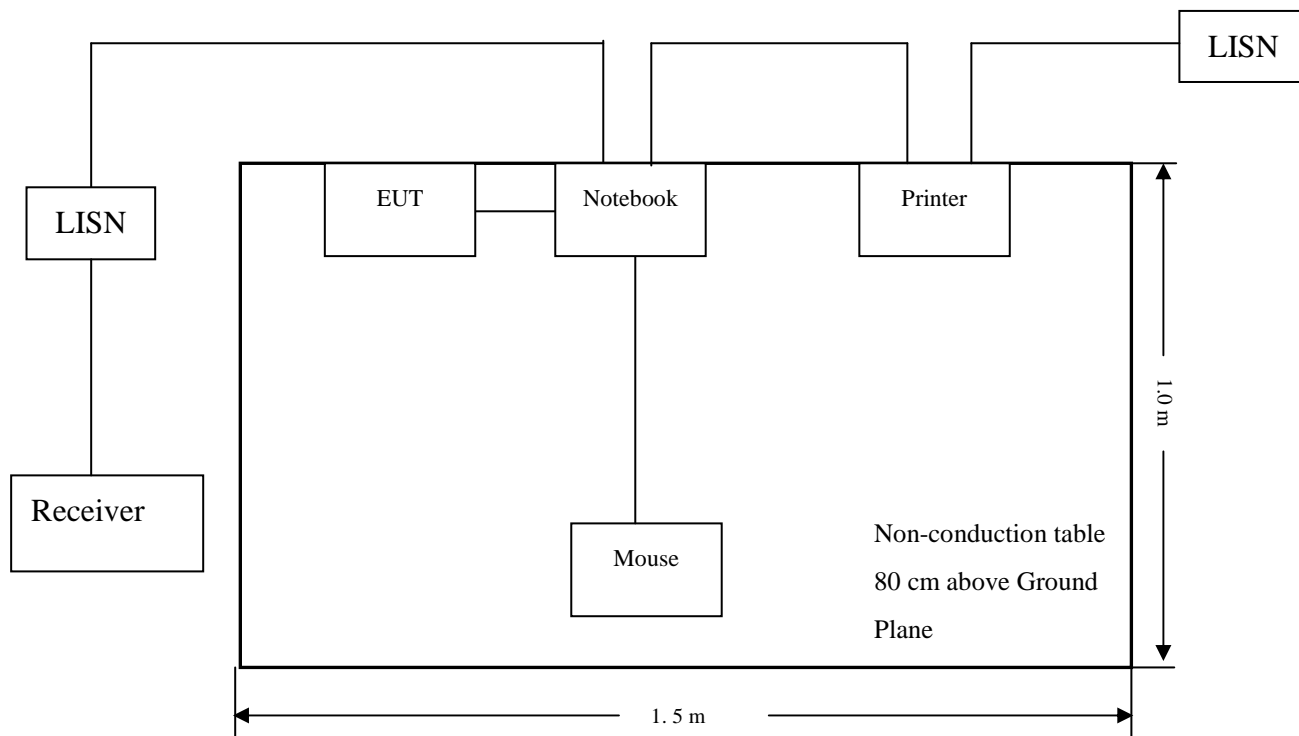
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



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.



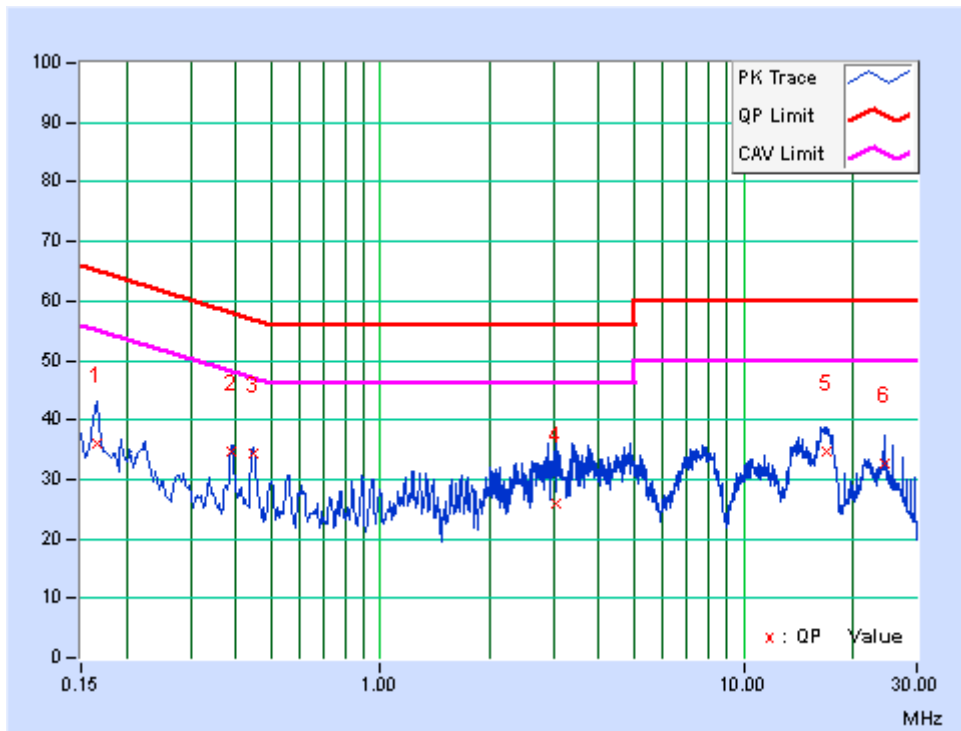
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: GFSK DH5

TEST MODE	Charging+ Bluetooth link	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC5V From Notebook PC Input AC230V 50Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 45% RH	TESTED BY	Eric Yu

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16569	10.60	25.56	21.82	36.16	32.42	65.17	55.17	-29.02	-22.76
2	0.38911	10.34	24.40	22.67	34.74	33.01	58.08	48.08	-23.35	-15.08
3	0.44507	10.31	23.95	22.59	34.26	32.90	56.97	46.97	-22.70	-14.06
4	3.02776	9.83	16.02	9.02	25.85	18.85	56.00	46.00	-30.15	-27.15
5	17.00992	10.02	24.64	19.14	34.66	29.16	60.00	50.00	-25.34	-20.84
6	24.34117	10.35	22.39	16.22	32.74	26.57	60.00	50.00	-27.26	-23.43

REMARKS: The emission levels of other frequencies were very low against the limit.





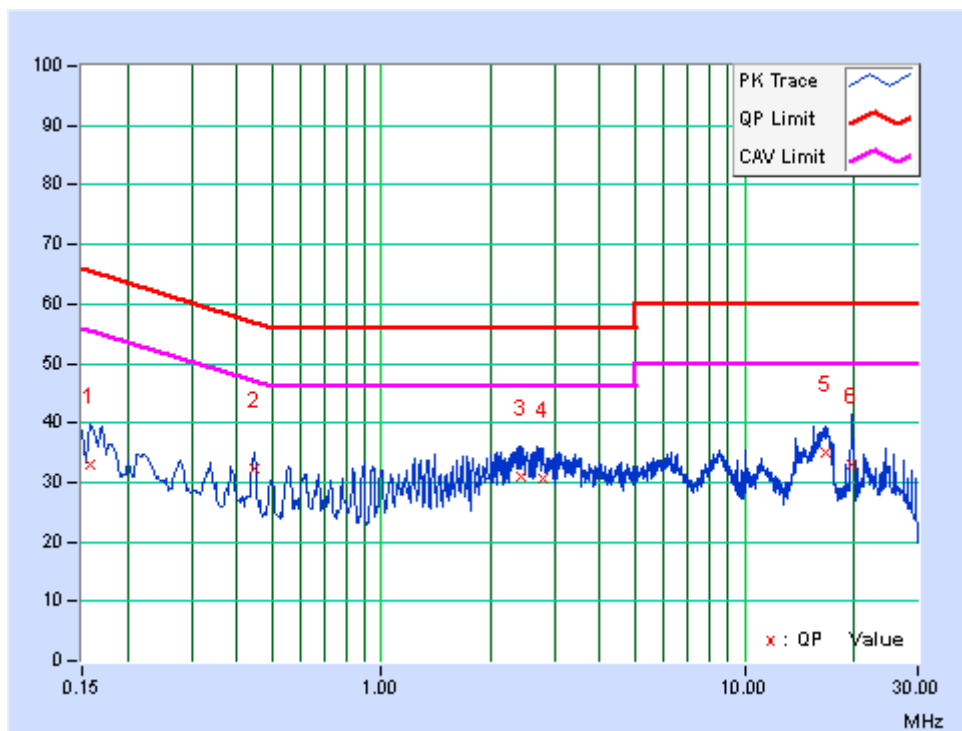
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Test Report No.: RF140619N017

TEST MODE	Charging+ Bluetooth link	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC5V From Notebook PC Input AC230V 50Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 45% RH	TESTED BY	Eric Yu

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15802	10.51	22.52	15.88	33.03	26.39	65.57	55.57	-32.53	-29.17
2	0.44716	10.46	21.87	19.38	32.33	29.84	56.93	46.93	-24.60	-17.09
3	2.40955	9.63	21.23	16.58	30.86	26.21	56.00	46.00	-25.14	-19.79
4	2.78925	9.63	21.12	16.39	30.75	26.02	56.00	46.00	-25.25	-19.98
5	16.63065	10.05	24.84	18.47	34.89	28.52	60.00	50.00	-25.11	-21.48
6	19.61007	10.17	22.69	12.88	32.86	23.05	60.00	50.00	-27.14	-26.95

REMARKS: The emission levels of other frequencies were very low against the limit.





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.



4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	27089	Jul. 27, 13	Jul. 26, 14
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Oct. 18, 13	Oct. 17, 14
Pre-Amplifier (9kHz~1GHz)	SONOMA	310D	186955	Mar. 06,13	Mar. 05,14
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 30, 13	Oct. 29, 14
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 04,13	Jan. 03,14
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,13	Nov. 03,14
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Dec. 05,13	Dec. 04,14
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 and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test site was performed in Chamber.
3. The FCC Site Registration No. is 502831.



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:

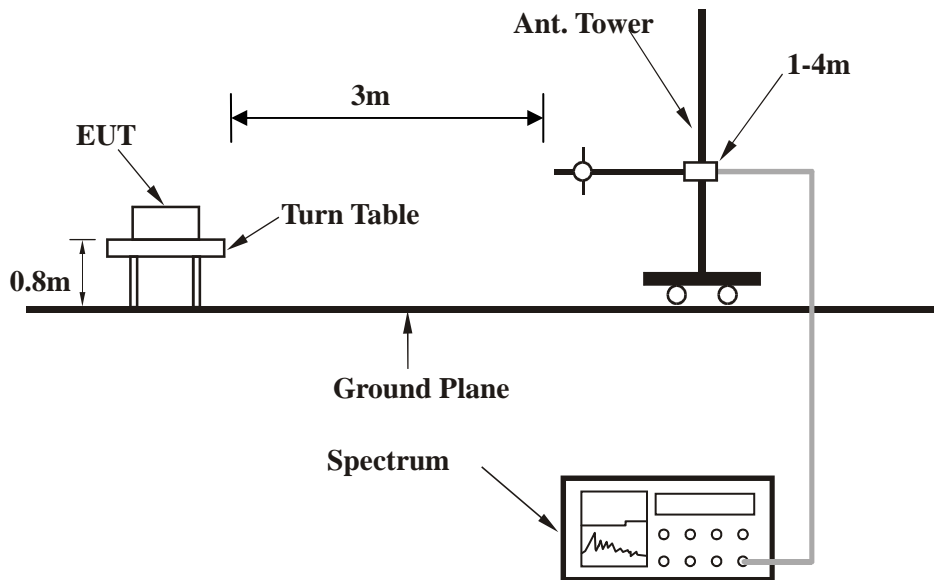
- 1 The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2 The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3 Bluetooth duty factor correction is not correct as it is based on 79 channels, worst case 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: $20\log(6.25 / 100) = -24.1$ dB.
Average value = peak reading + $20\log(\text{duty cycle})$.
- 4 All modes of operation were investigated and the worst-case emissions are reported.



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

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



4.2.7 TEST RESULTS

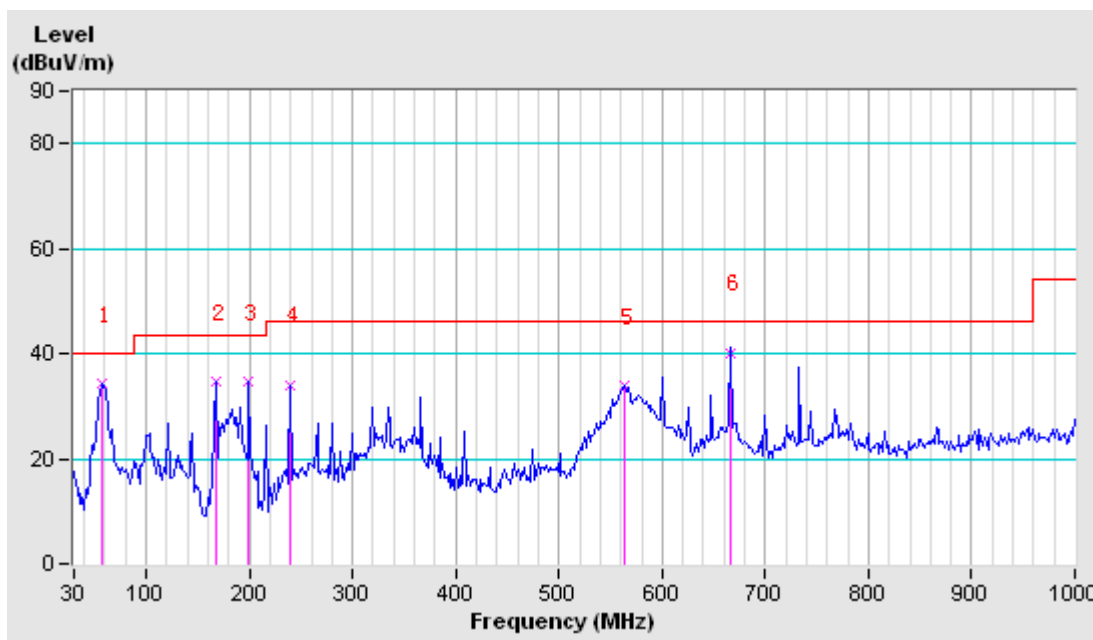
BELOW 1GHz WORST-CASE DATA: GFSK DH5

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

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	57.48	34.5 QP	40.0	-5.5	1.00 H	50	25.58	8.88
2	167.42	34.8 QP	43.5	-8.7	1.00 H	120	23.44	11.34
3	199.75	34.5 QP	43.5	-9.0	1.00 H	107	23.92	10.61
4	240.17	34.1 QP	46.0	-11.9	1.00 H	96	20.92	13.17
5	563.50	34.1 QP	46.0	-11.9	1.00 H	83	11.10	22.98
6	666.97	40.2 QP	46.0	-5.8	1.00 H	66	16.17	24.03

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.



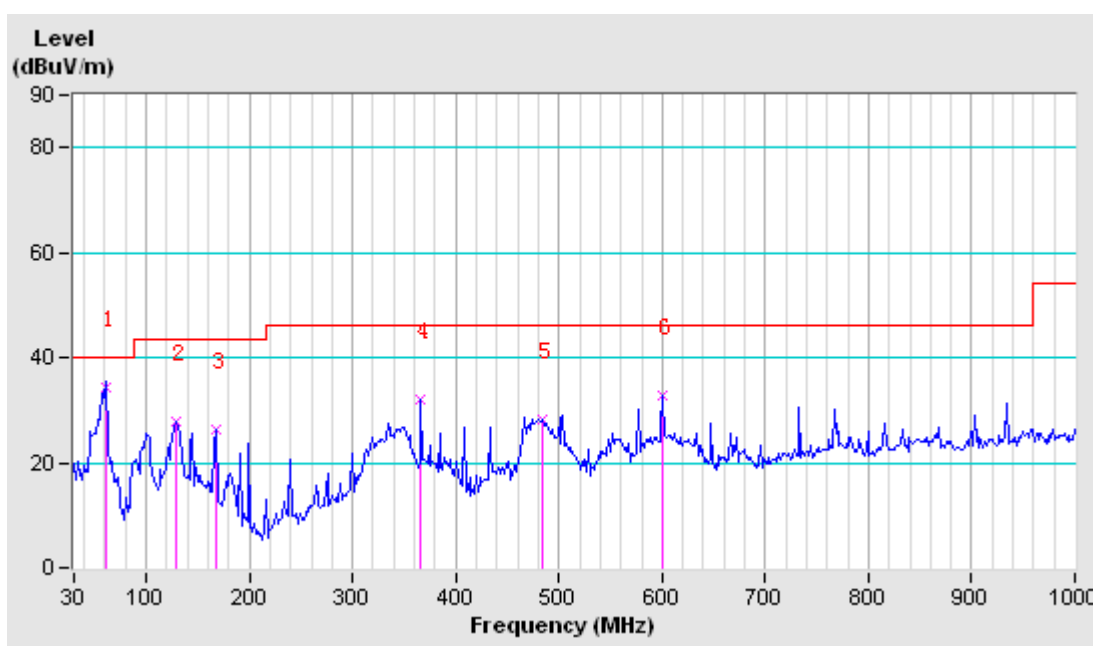


CHANNEL	TX Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	60.72	34.2 QP	40.0	-5.8	1.00 V	220	26.01	8.19
2	128.62	27.8 QP	43.5	-15.7	1.00 V	283	14.76	13.00
3	167.42	26.4 QP	43.5	-17.1	1.00 V	233	15.04	11.34
4	366.27	31.9 QP	46.0	-14.2	1.00 V	247	14.65	17.20
5	484.28	28.2 QP	46.0	-17.8	1.00 V	258	7.61	20.59
6	600.68	32.9 QP	46.0	-13.2	1.00 V	269	9.60	23.25

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.





ABOVE 1GHz WORST-CASE DATA: GFSK DH5

CHANNEL	Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	65.6 PK	74.0	-8.4	1.00 H	246	27.14	38.46
2	2400.00	41.5 AV	54.0	-12.5	1.00 H	246	3.04	38.46
3	*2402.00	105.0 PK	114.0	-9.0	1.00 H	246	66.54	38.46
4	*2402.00	80.9 AV	94.0	-13.1	1.00 H	246	42.44	38.46
5	4804.00	55.3 PK	74.0	-18.7	1.00 H	163	11.83	43.47
6	4804.00	31.2 AV	54.0	-22.8	1.00 H	163	-12.27	43.47

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	2400.00	60.9 PK	74.0	-13.1	1.00 V	195	22.44	38.46
2	2400.00	36.8 AV	54.0	-17.2	1.00 V	195	-1.66	38.46
3	*2402.00	100.5 PK	114.0	-13.5	1.00 V	195	62.04	38.46
4	*2402.00	76.4 AV	94.0	-17.6	1.00 V	195	37.94	38.46
5	4804.00	58.8 PK	74.0	-15.2	1.00 V	254	15.33	43.47
6	4804.00	34.7 AV	54.0	-19.3	1.00 V	254	-8.77	43.47

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.



CHANNEL	Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	105.3 PK	114.0	-8.7	1.00 H	250	66.75	38.55
2	*2441.00	81.2 AV	94.0	-12.8	1.00 H	250	42.65	38.55
3	4882.00	55.7 PK	74.0	-18.3	1.00 H	246	12.15	43.55
4	4882.00	31.6 AV	54.0	-22.4	1.00 H	246	-11.95	43.55
5	7323.00	57.1 PK	74.0	-16.9	1.00 H	264	9.03	48.07
6	7323.00	33.0 AV	54.0	-21.0	1.00 H	264	-15.07	48.07

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	*2441.00	101.4 PK	114.0	-12.6	1.00 V	210	62.85	38.55
2	*2441.00	77.3 AV	94.0	-16.7	1.00 V	210	38.75	38.55
3	4882.00	59.1 PK	74.0	-14.9	1.00 V	198	15.55	43.55
4	4882.00	35.0 AV	54.0	-19.0	1.00 V	198	-8.55	43.55
5	7323.00	59.4 PK	74.0	-14.6	1.00 V	190	11.33	48.07
6	7323.00	35.3 AV	54.0	-18.7	1.00 V	190	-12.77	48.07

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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Test Report No.: RF140619N017

CHANNEL	Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	102.3 PK	114.0	-11.7	1.00 H	249	63.67	38.63
2	*2480.00	78.2 AV	94.0	-15.8	1.00 H	249	39.57	38.63
3	2483.50	55.2 PK	74.0	-18.8	1.00 H	249	16.56	38.64
4	2483.50	31.1 AV	54.0	-22.9	1.00 H	249	-7.54	38.64
5	4960.00	56.2 PK	74.0	-17.8	1.00 H	182	12.57	43.63
6	4960.00	32.1 AV	54.0	-21.9	1.00 H	182	-11.53	43.63
7	7440.00	58.1 PK	74.0	-15.9	1.00 H	265	9.95	48.15
8	7440.00	34.0 AV	54.0	-20.0	1.00 H	265	-14.15	48.15
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	*2480.00	98.9 PK	114.0	-15.1	1.00 V	207	60.27	38.63
2	*2480.00	64.8 AV	94.0	-29.2	1.00 V	207	26.17	38.63
3	2483.50	51.2 PK	74.0	-22.8	1.00 V	207	12.56	38.64
4	2483.50	26.1 AV	54.0	-27.9	1.00 V	207	-12.54	38.64
5	4960.00	59.2 PK	74.0	-14.8	1.00 V	199	15.57	43.63
6	4960.00	35.1 AV	54.0	-18.9	1.00 V	199	-8.53	43.63
7	7440.00	60.1 PK	74.0	-13.9	1.00 V	188	11.95	48.15
8	7440.00	36.0 AV	54.0	-18.0	1.00 V	188	-12.15	48.15

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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BT_8DPSK DH5

CHANNEL	Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	68.7 PK	74.0	-5.3	1.00 H	122	30.24	38.46
2	2400.00	44.6 AV	54.0	-9.4	1.00 H	122	6.14	38.46
3	*2402.00	100.2 PK	114.0	-13.8	1.05 H	122	61.74	38.46
4	*2402.00	76.1 AV	94.0	-17.9	1.05 H	122	37.64	38.46
5	4804.00	53.6 PK	74.0	-20.4	1.00 H	200	10.13	43.47
6	4804.00	29.5 AV	54.0	-24.5	1.00 H	200	-13.97	43.47
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	2400.00	65.5 PK	74.0	-8.5	1.00 V	25	27.04	38.46
2	2400.00	41.4 AV	54.0	-12.6	1.00 V	25	2.94	38.46
3	*2402.00	95.2 PK	114.0	-18.8	1.00 V	25	56.74	38.46
4	*2402.00	71.1 AV	94.0	-22.9	1.00 V	25	32.64	38.46
5	4804.00	54.1 PK	74.0	-19.9	1.00 V	140	10.63	43.47
6	4804.00	30.0 AV	54.0	-24.0	1.00 V	140	-13.47	43.47

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.



CHANNEL	Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	101.3 PK	114.0	-12.7	1.00 H	165	62.75	38.55
2	*2441.00	77.2 AV	94.0	-16.8	1.00 H	165	38.65	38.55
3	4882.00	53.6 PK	74.0	-20.4	1.00 H	143	10.05	43.55
4	4882.00	29.5 AV	54.0	-24.5	1.00 H	143	-14.05	43.55
5	7323.00	58.6 PK	74.0	-15.4	1.00 H	120	10.53	48.07
6	7323.00	34.5 AV	54.0	-19.5	1.00 H	120	-13.57	48.07

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	*2441.00	95.3 PK	114.0	-18.7	1.00 V	211	56.75	38.55
2	*2441.00	71.2 AV	94.0	-22.8	1.00 V	211	32.65	38.55
3	4882.00	55.3 PK	74.0	-18.7	1.00 V	214	11.75	43.55
4	4882.00	31.2 AV	54.0	-22.8	1.00 V	214	-12.35	43.55
5	7323.00	59.4 PK	74.0	-14.6	1.00 V	251	11.33	48.07
6	7323.00	35.3 AV	54.0	-18.7	1.00 V	251	-12.77	48.07

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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Test Report No.: RF140619N017

CHANNEL	Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	98.6 PK	114.0	-15.4	1.00 H	146	59.97	38.63
2	*2480.00	74.5 AV	94.0	-19.5	1.00 H	146	35.87	38.63
3	2483.50	49.1 PK	74.0	-24.9	1.00 H	206	10.46	38.64
4	2483.50	25.0 AV	54.0	-29.0	1.00 H	206	-13.64	38.64
5	4960.00	55.5 PK	74.0	-18.5	1.00 H	205	11.87	43.63
6	4960.00	31.4 AV	54.0	-22.6	1.00 H	205	-12.23	43.63
7	7440.00	59.6 PK	74.0	-14.4	1.00 H	122	11.45	48.15
8	7440.00	35.5 AV	54.0	-18.5	1.00 H	122	-12.65	48.15

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	*2480.00	93.2 PK	114.0	-20.8	1.00 V	186	54.57	38.63
2	*2480.00	69.1 AV	94.0	-24.9	1.00 V	186	30.47	38.63
3	2483.50	48.1 PK	74.0	-25.9	1.00 V	186	9.46	38.64
4	2483.50	24.0 AV	54.0	-30.0	1.00 V	186	-14.64	38.64
5	4960.00	55.6 PK	74.0	-18.4	1.00 V	192	11.97	43.63
6	4960.00	31.5 AV	54.0	-22.5	1.00 V	192	-12.13	43.63
7	7440.00	58.7 PK	74.0	-15.3	1.00 V	218	10.55	48.15
8	7440.00	34.6 AV	54.0	-19.4	1.00 V	218	-13.55	48.15

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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Test Report No.: RF140619N017

BT4.0

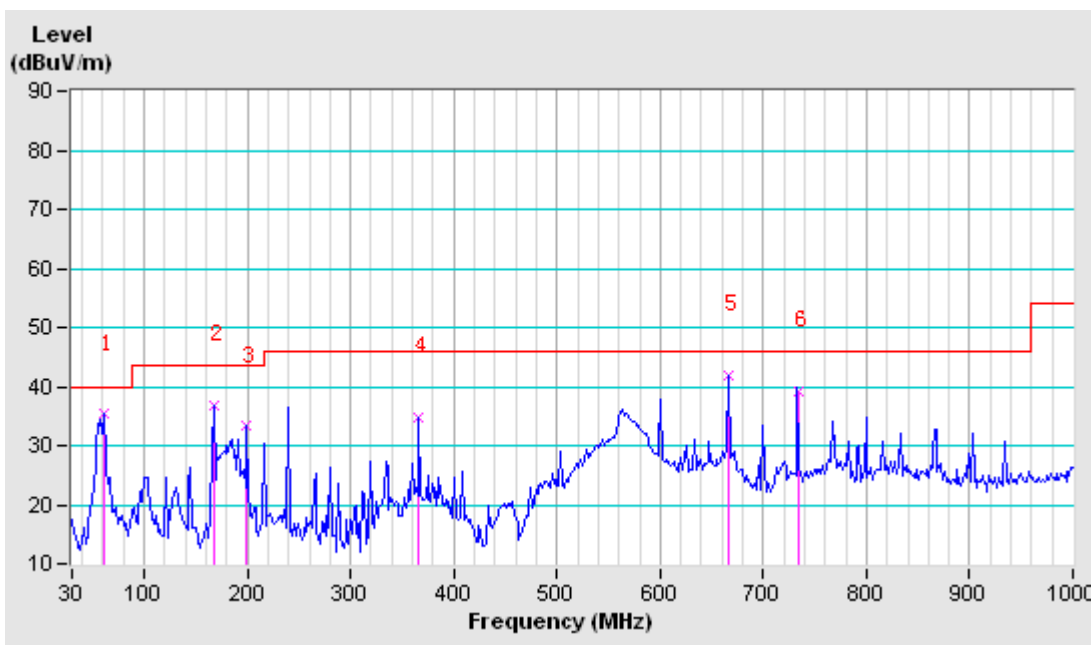
BELOW 1GHz WORST-CASE DATA: BT-LE GFSK

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

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	60.72	35.3 QP	40.0	-4.7	1.00 H	284	27.08	8.19
2	167.42	36.9 QP	43.5	-6.6	1.00 H	297	25.60	11.34
3	199.75	33.3 QP	43.5	-10.2	1.00 H	268	22.67	10.61
4	366.27	34.8 QP	46.0	-11.2	1.00 H	310	17.57	17.20
5	666.97	41.8 QP	46.0	-4.2	1.00 H	336	17.76	24.03
6	733.25	39.2 QP	46.0	-6.8	1.00 H	241	13.70	25.50

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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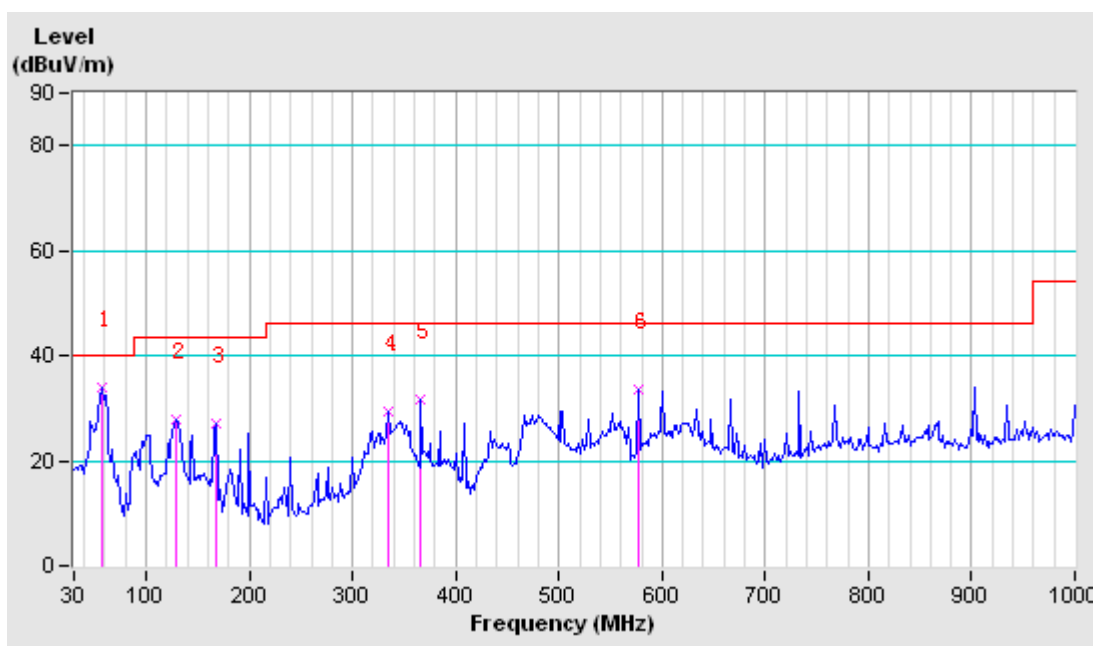
Test Report No.: RF140619N017

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

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	57.48	34.0 QP	40.0	-6.1	1.00 V	93	25.07	8.88
2	128.62	27.8 QP	43.5	-15.7	1.00 V	160	14.76	13.00
3	167.42	27.1 QP	43.5	-16.4	1.00 V	172	15.80	11.34
4	333.93	29.2 QP	46.0	-16.8	1.00 V	147	12.97	16.26
5	366.27	31.7 QP	46.0	-14.3	1.00 V	108	14.46	17.20
6	576.43	33.4 QP	46.0	-12.6	1.00 V	119	10.39	22.99

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: BT-LE GFSK

CHANNEL	Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	67.2 PK	74.0	-6.8	1.00 H	45	28.74	38.46
2	2400.00	46.8 AV	54.0	-7.2	1.00 H	45	8.34	38.46
3	*2402.00	102.8 PK	114.0	-11.2	1.00 H	45	64.34	38.46
4	*2402.00	78.7 AV	94.0	-15.3	1.00 H	45	40.24	38.46
5	4804.00	56.5 PK	74.0	-17.5	1.00 H	0	13.03	43.47
6	4804.00	43.8 AV	54.0	-10.2	1.00 H	0	0.33	43.47

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	2400.00	61.2 PK	74.0	-12.8	1.00 V	163	22.74	38.46
2	2400.00	42.9 AV	54.0	-11.1	1.00 V	163	4.44	38.46
3	*2402.00	96.4 PK	114.0	-17.6	1.00 V	163	57.94	38.46
4	*2402.00	75.3 AV	94.0	-18.7	1.00 V	163	36.84	38.46
5	4804.00	56.5 PK	74.0	-17.5	1.00 V	242	13.03	43.47
6	4804.00	43.2 AV	54.0	-10.8	1.00 V	242	-0.27	43.47

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.



CHANNEL	Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	*2440.00	102.8 PK	114.0	-11.2	1.00 H	45	64.26	38.54
2	*2440.00	79.6 AV	94.0	-14.4	1.00 H	45	41.06	38.54
3	4880.00	56.6 PK	74.0	-17.4	1.00 H	155	13.05	43.55
4	4880.00	43.8 AV	54.0	-10.2	1.00 H	155	0.25	43.55
5	7320.00	59.6 PK	74.0	-14.4	1.00 H	144	11.54	48.06
6	7320.00	46.8 AV	54.0	-7.2	1.00 H	144	-1.26	48.06
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	*2440.00	96.7 PK	114.0	-17.3	1.00 V	4	58.16	38.54
2	*2440.00	74.8 AV	94.0	-19.2	1.00 V	4	36.26	38.54
3	4880.00	56.3 PK	74.0	-17.7	1.00 V	152	12.75	43.55
4	4880.00	42.2 AV	54.0	-11.8	1.00 V	152	-1.35	43.55
5	7320.00	60.5 PK	74.0	-13.5	1.00 V	250	12.44	48.06
6	7320.00	47.4 AV	54.0	-6.6	1.00 V	250	-0.66	48.06

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.



CHANNEL	Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		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	100.8 PK	114.0	-13.2	1.00 H	46	62.17	38.63
2	*2480.00	78.2 AV	94.0	-15.8	1.00 H	46	39.57	38.63
3	2483.50	51.2 PK	74.0	-22.8	1.00 H	46	12.56	38.64
4	2483.50	38.6 AV	54.0	-15.4	1.00 H	46	-0.04	38.64
5	4960.00	54.6 PK	74.0	-19.4	1.00 H	155	10.97	43.63
6	4960.00	41.8 AV	54.0	-12.2	1.00 H	155	-1.83	43.63
7	7440.00	59.4 PK	74.0	-14.6	1.00 H	152	11.25	48.15
8	7440.00	47.6 AV	54.0	-6.4	1.00 H	152	-0.55	48.15

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	*2480.00	94.3 PK	114.0	-19.7	1.00 V	50	55.67	38.63
2	*2480.00	74.8 AV	94.0	-19.2	1.00 V	50	36.17	38.63
3	2483.50	53.6 PK	74.0	-20.4	1.00 V	50	14.96	38.64
4	2483.50	40.1 AV	54.0	-13.9	1.00 V	50	1.46	38.64
5	4960.00	56.4 PK	74.0	-17.6	1.00 V	159	12.77	43.63
6	4960.00	43.2 AV	54.0	-10.8	1.00 V	159	-0.43	43.63
7	7440.00	62.6 PK	74.0	-11.4	1.00 V	255	14.45	48.15
8	7440.00	48.3 AV	54.0	-5.7	1.00 V	255	0.15	48.15

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.



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. 25,13	Nov. 24,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,13	Oct. 30,14
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 RF OVEN room

4.3.3 TEST PROCEDURE

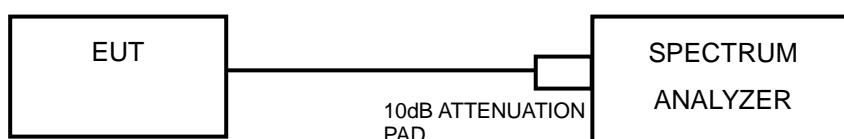
- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the 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.



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

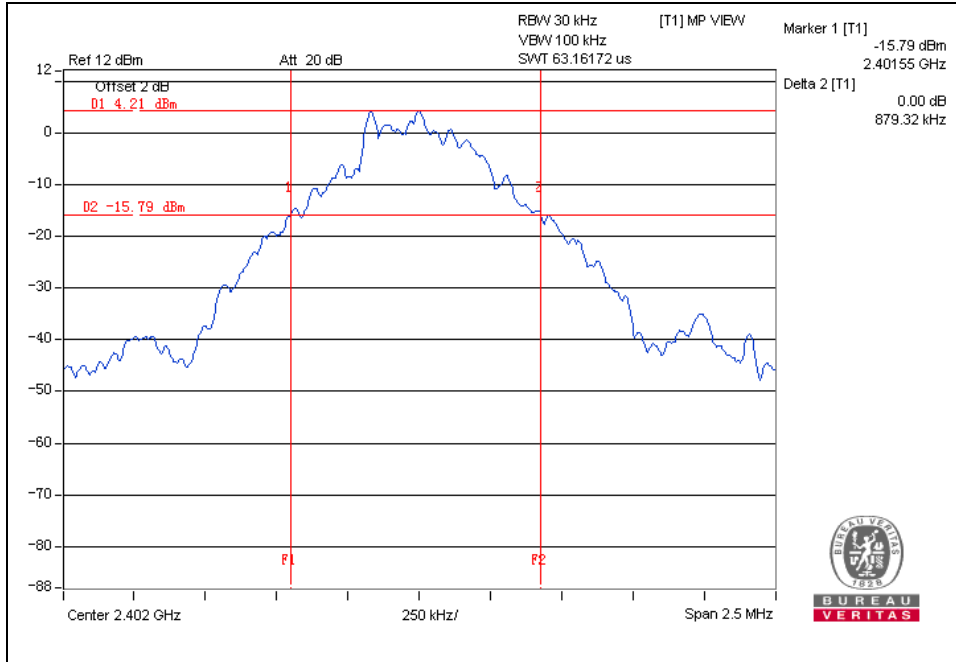
CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2402	0.879
Middle	2441	0.884
High	2480	0.884



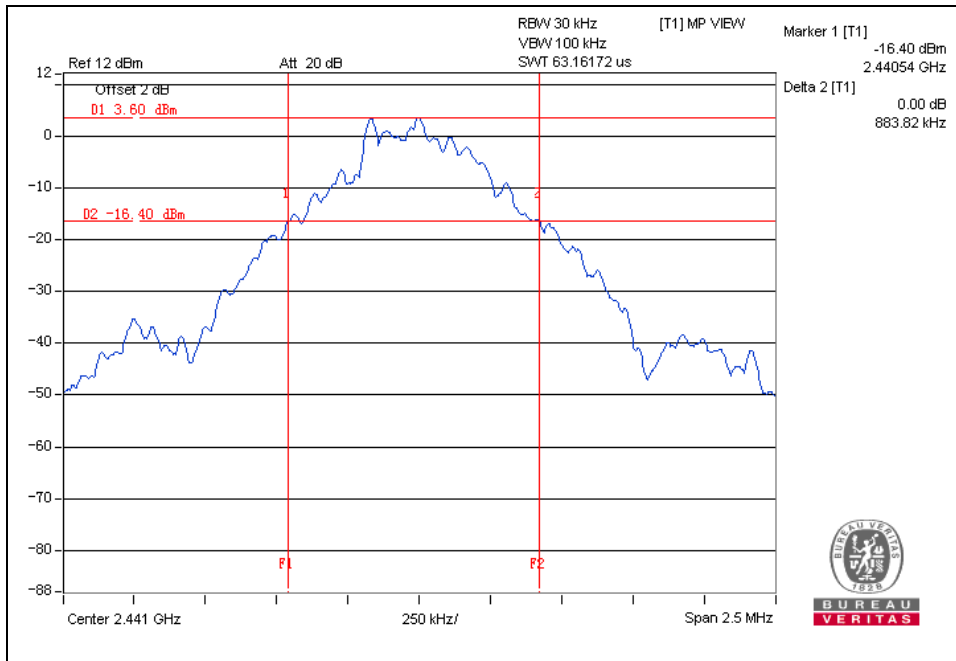
BUREAU VERITAS

Test Report No.: RF140619N017

Test Data: Low channel



Test Data: Middle channel



Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd., Houjie
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Guangdong 523942, China

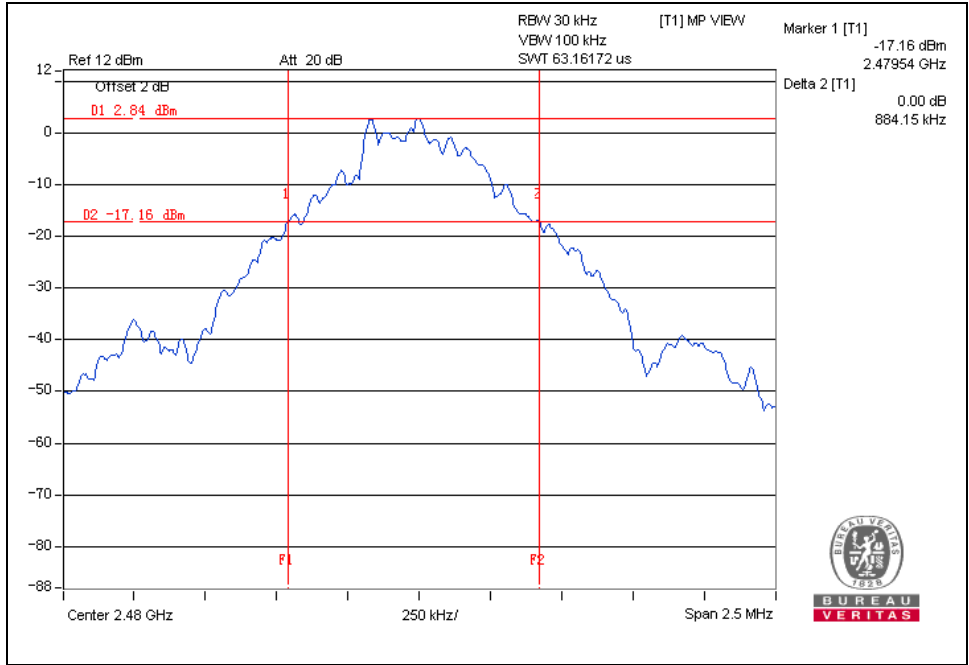
Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com



BUREAU VERITAS

Test Report No.: RF140619N017

Test Data: High channel





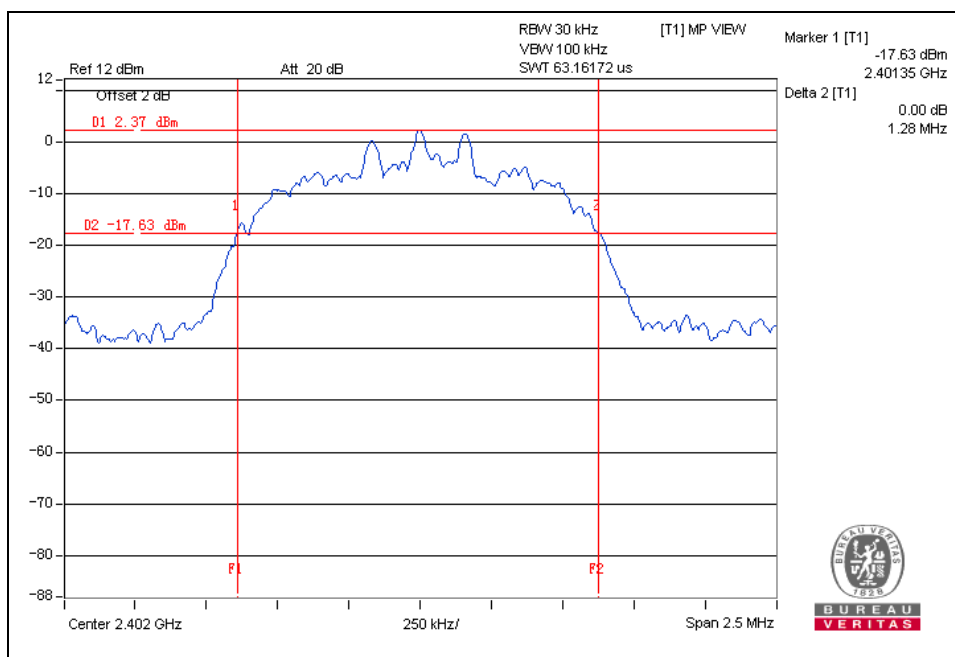
BUREAU VERITAS

Test Report No.: RF140619N017

8DPSK DH5

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2402	1.28
Middle	2441	1.26
Hight	2480	1.26

Test Data: Low channel

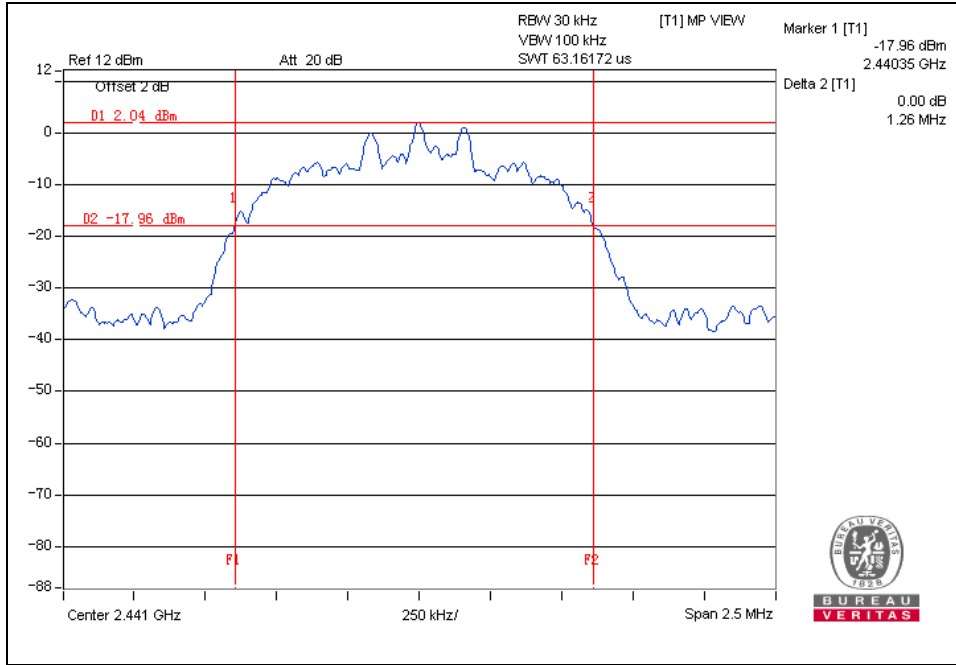




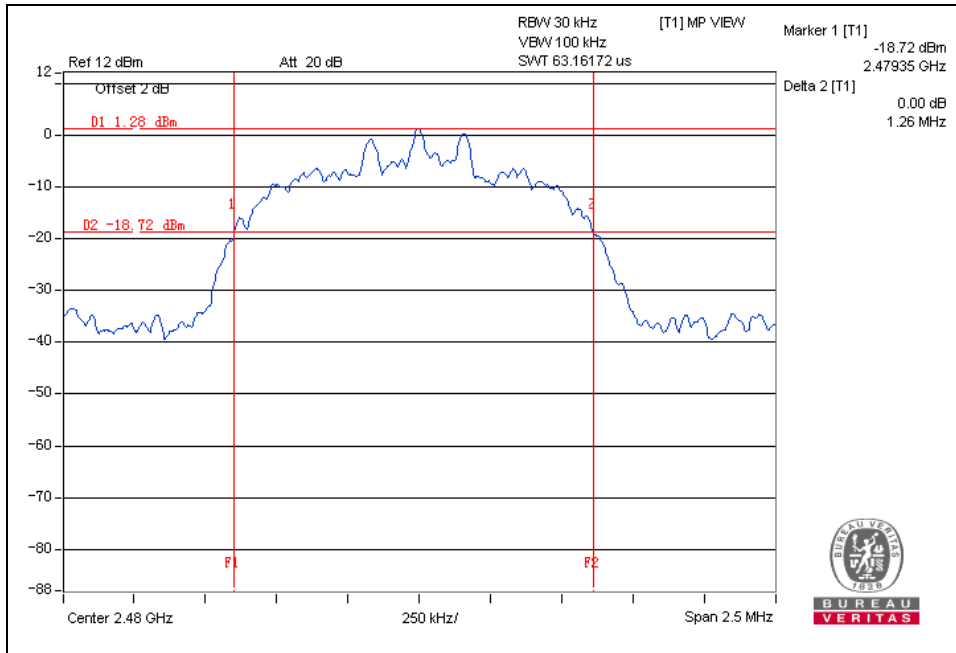
BUREAU VERITAS

Test Report No.: RF140619N017

Test Data: Middle channel



Test Data: High channel



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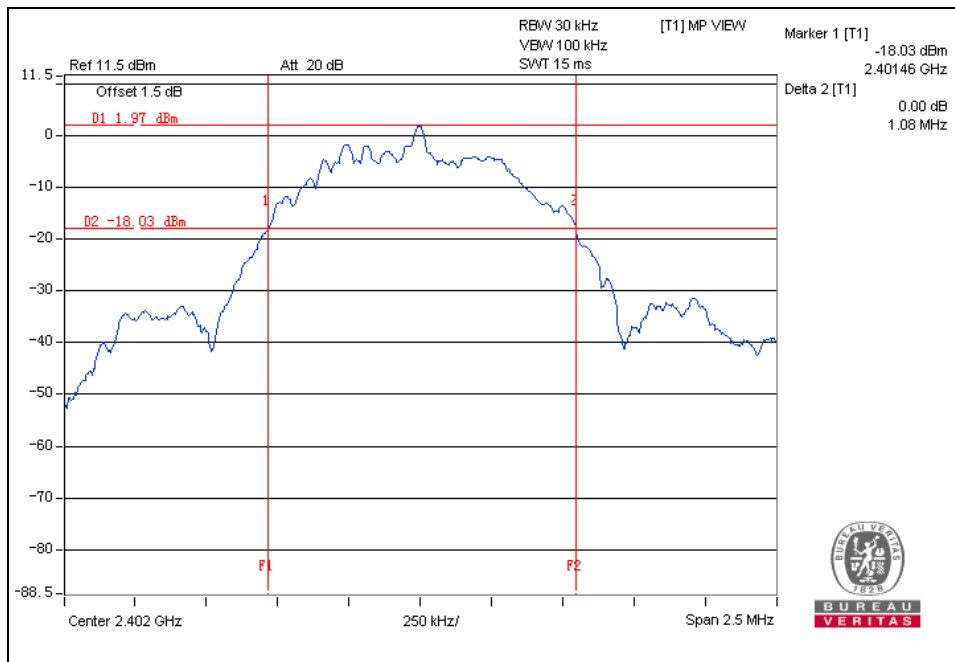
BUREAU VERITAS

Test Report No.: RF140619N017

BT-LE GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2402	1.08
Middle	2440	1.09
High	2480	1.09

Test Data: Low channel

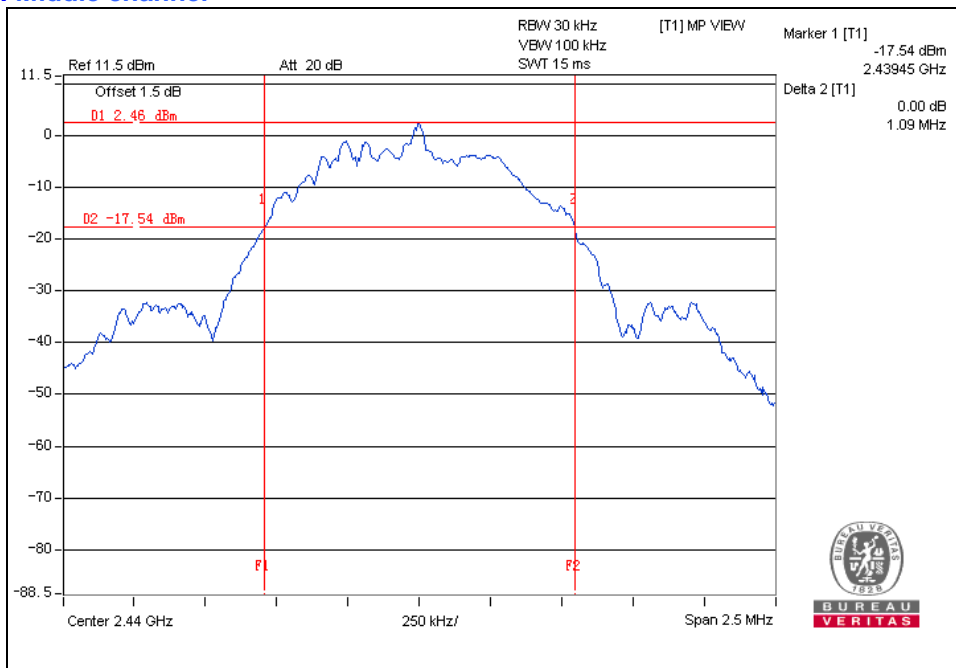




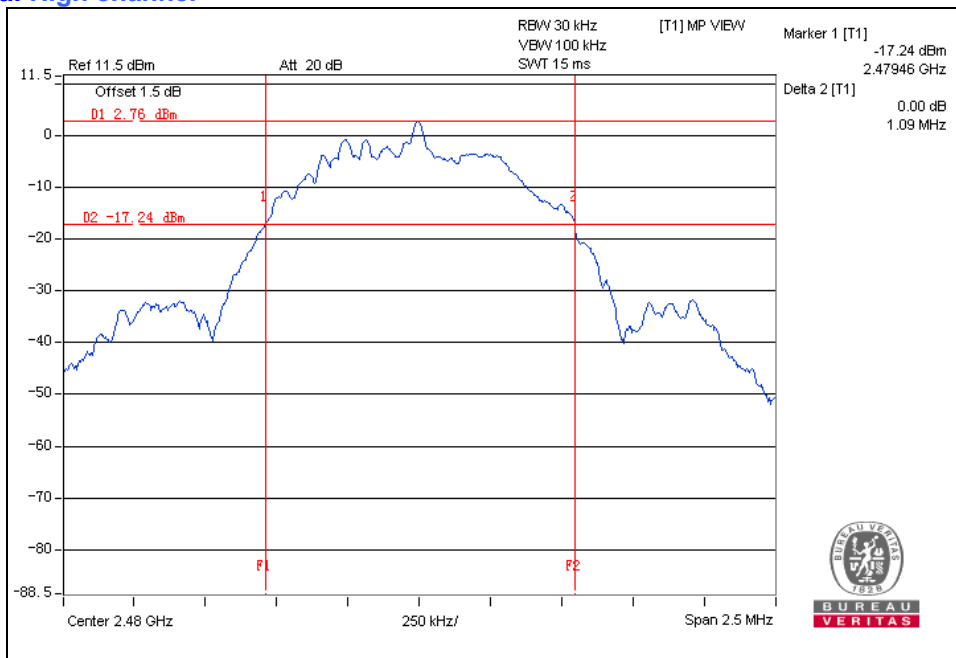
BUREAU VERITAS

Test Report No.: RF140619N017

Test Data: Middle channel



Test Data: High channel





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Test Report No.: RF140619N017

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



**BUREAU
VERITAS**

Test Report No.: RF140619N017

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---