FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4:2003 TEST REPORT

For

Jawbone

Model: JBF

Trade Name: Jawbone

Issued for

Aliph com

99 Rhode Island,3 rd Floor San Francisco, CA94134

Issued by

Compliance Certification Services Inc. Tainan Lab.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	11/23/2010	Initial Issue	All Page 85	Joanna Wen

FCC ID: V3J-JBF

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1. TEST REPORT CERTIFICATION

Applicant : Aliph com

Address : 99 Rhode Island,3 rd Floor San Francisco, CA94134

Equipment Under Test: Jawbone

Model : JBF

Trade Name : Jawbone

Tested Date : August 25 ~ September 14, 2010 ; November 23, 2010

APPLICABLE STANDARD				
Standard	Test Result			
FCC Part 15 Subpart C AND ANSI C63.4:2003	PASS			

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:	Reviewed by:		
Teterra	Eric Yang		
Jeter Wu Section Manager	Eric Yang Senior Engineer		

2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

Dreduct News	Jawbone
Product Name	Jawbone
Model Number	JBF
Received Date	August 25, 2010
Frequency Range	2402MHz to 2480MHz $f = 2402 + nMHz$, $n = 0,78$
Transmit Power	6.35 dBm (0.0043W)
Channel Spacing	1MHz
Channel Number	79 Channels
Transmit Data Rate	GFSK (1Mbps), π /4-DQPSK (2Mbps), 8-DPSK (3Mbps)
Type of Modulation	Frequency Hopping Spread Spectrum
Frequency Selection	by software / firmware
Transmitter Classification	portable device
Antenna Type	Monopole Antenna, Antenna Gain: 1.97dBi
DC Power Cord Type	Shielded USB cable 9cm / 1.5m (detachable)
	Normal Mode: 3.7VDC(Battery Powered)
Power Source	Charging Mode: 5.0VDC (From Notebook PC, Powered From Host Device & power adapter)
RF Exposure Evaluation	Since the EUT is classed portable device, and the maximum peak power is 6.35 dBm (<13.6dBm), the MPE evaluation is not required and no SAR consideration applied.
I/O Port	Micro USB port x 1

Power Adapter:

No.	Manufacturer	Model No.	Power Input	Power Output	
1	JAWBONE	SPA-K901	100-240V , 50/60Hz , 0.1A	5.0V , 550mA	

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. For more details, please refer to the User's manual of the EUT.
- 3. This submittal(s) (test report) is intended for FCC ID: V3J-JBF filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. DESCRIPTION OF TEST MODES

The EUT (JBF) had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2402
Middle	2441
High	2480

Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Normal Linking

Radiated Emission Test (Above 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Tested Channel	Modulation Technology	Modulation Type	Packet Type
Low, Mid, High	FHSS	GFSK	DH5
Low, Mid, High	FHSS	8-DPSK	3-DH5

Bandedge Measurement:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

Tested Channel	Modulation Technology	Modulation Type	Packet Type
Low, High	FHSS	GFSK	DH5
Low, High	FHSS	8-DPSK	3-DH5

Antenna Port Conducted Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☑ Following channel(s) was (were) selected for the final test as listed below.

Tested Channel	Modulation Technology	Modulation Type	Packet Type
Low, Mid, High	FHSS	GFSK	DH5
Low, Mid, High	FHSS	8-DPSK	3-DH5

Remark : The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Y axis) and the worst case was recorded.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 : 2003 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Jiu Cheng Ling, Jiaokeng Village, Sinhua Township, Tainan Hsien 712, Taiwan R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.4 :2003 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada INDUSTRY CANADA
Germany TÜV NORD

Japan VCCI
Taiwan BSMI
USA FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Open Area Test Site (OATS No.3) /	./ 2.0267
Radiated Emission, 30 to 200 MHz	+/- 3.9267
Open Area Test Site (OATS No.3) /	./ 2 6900
Radiated Emission, 200 to 1000 MHz	+/- 3.6899
Semi Anechoic Chamber (966 Chamber) /	+/- 3.6878
Radiated Emission, 30 to 200 MHz	+/- 3.007 0
Semi Anechoic Chamber (966 Chamber) /	+/- 3.0885
Radiated Emission, 200 to 1000 MHz	+/- 3.0003
Semi Anechoic Chamber (966 Chamber) /	+/- 3.2000
Radiated Emission, 1 to 26.5GHz	+/- 3.2000
Conducted Emission, 9kHz to 30MHz	+/- 1.7468

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

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	Notebook PC	IBM	ThinkPad T61 7663-AS6	L3F3864	

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

RF Mode

- 1. Setup all computers like the setup diagram.
- 2. Run CSR Blue Test software.
- 3. Select the following settings

Transport type: USB USB Device:csr0

4. TX mode(GFSK)

TXDATA1

LO Freq: 2402, 2441, 2480 Power (EXT, Int): 255, 63 CFG PKT, Packet Type: 15

Packet Size: 339

TX mode (8-DPSK)

TXDATA1

LO Freq: 2402, 2441, 2480 Power (EXT, Int): 255, 63 CFG PKT, Packet Type: 31

Packet Size: 1021

- 5. All of the functions are under run.
- 6. Start test.

Normal Mode

- 1. Setup all computers like the setup diagram.
- 2. (1) Build up a connection between EUT and Notebook (play music).
 - (2) Power Adapter / Charge mode.
- 3. All of the functions are under run.
- 4. Start test.

7. FCC PART 15.247 REQUIREMENTS

7.1 20dB BANDWIDTH FOR HOPPING

LIMITS

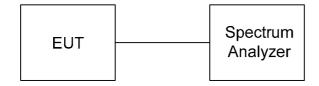
Limit: N/A

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	Agilent	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The 20dB band width was measured with a spectrum analyzer connected to RF antenna connector(conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency. The analyzer center frequency was set to the EUT carrier frequency, using the analyzer. Display Line and Marker Delta functions, the 20dB band width of the emission was determined.

TEST RESULTS

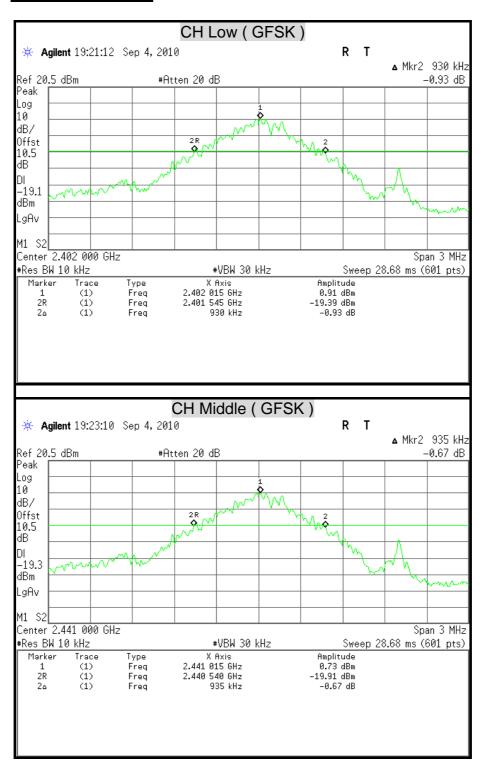
Modulation Type: GFSK, CFG PKT Packet Type: 15 Packet Size: 339 (DH5)

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	Result
Low	2402	0.930	N/A
Middle	2441	0.935	N/A
High	2480	0.930	N/A

Modulation Type: 8-DPSK, CFG PKT Packet Type: 31 Packet Size: 1021 (3-DH5)

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	Result
Low	2402	1.275	N/A
Middle	2441	1.270	N/A
High	2480	1.270	N/A

20dB BANDWIDTH

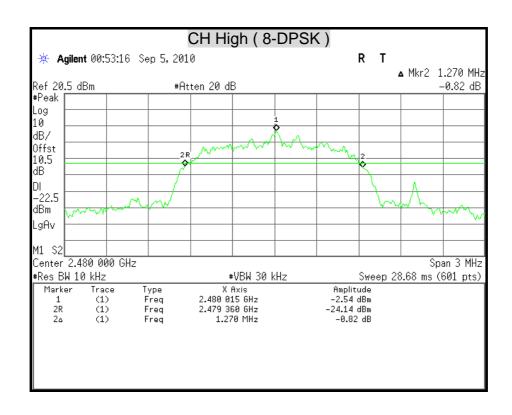


CH High (GFSK) * Agilent 19:26:13 Sep 4, 2010 R T ▲ Mkr2 930 kHz Ref 20.5 dBm #Atten 20 dB -1.13 dB Peak Log 10 dB/ 0ffst 10.5 dΒ –19.6 dBm LgAv M1 S2 Center 2.480 000 GHz Span 3 MHz Sweep 28.68 ms (601 pts)
Amplitude
0.43 dBm
-20.00 dBm
-1.13 dB #Res BW 10 kHz #VBW 30 kHz X Axis 2.480 015 GHz 2.479 545 GHz 930 kHz Trace (1) (1) (1) Type Freq Marker 2R 2Δ Freq

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CH Low (8-DPSK) R T Agilent 00:59:35 Sep 5, 2010 ▲ Mkr2 1.275 MHz Ref 20.5 dBm #Atten 20 dB -0.86 dB #Peak Log 10 dB/ Offst 10.5 dΒ DI -21.4dBm LgAv M1 S2 Center 2.402 000 GHz Span 3 MHz Sweep 28.68 ms (601 pts) #Res BW 10 kHz #VBW 30 kHz X Axis 2.402 015 GHz 2.401 355 GHz 1.275 MHz Amplitude -1.43 dBm Marker Trace (1) Type Freq -22.69 dBm -0.86 dB 2R 2Δ (1) (1) Freq CH Middle (8-DPSK) Agilent 00:56:28 Sep 5, 2010 R T ▲ Mkr2 1.270 MHz Ref 20.5 dBm #Atten 20 dB -1.33 dB #Peak Log 10 dB/ Offst 10.5 dΒ DI -21.9 dBm LgAv M1 S2 Center 2.441 000 GHz Span 3 MHz #Res BW 10 kHz #VBW 30 kHz Sweep 28.68 ms (601 pts) X Axis 2.441 015 GHz Amplitude Marker Trace Type Freq (1) 2R 2Δ 2.440 360 GHz 1.270 MHz -22.90 dBm -1.33 dB (1) Freq (1)



7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§15.247(b)(1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	Agilent	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The RF power output was measured with a spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency, a spectrum analyzer was used to record the shape of the transmit signal.

TEST RESULTS

Modulation Type: GFSK, CFG PKT Packet Type: 15 Packet Size: 339 (DH5)

Channel	Channel Frequency	i sant sus.		Peak Pov	Result	
Channel	(MHz)	(dBm)	(W)	(dBm)	(W)	Nesult
Low	2402	6.35	0.0043	20.97	0.125	PASS
Middle	2441	6.02	0.0040	20.97	0.125	PASS
High	2480	5.61	0.0036	20.97	0.125	PASS

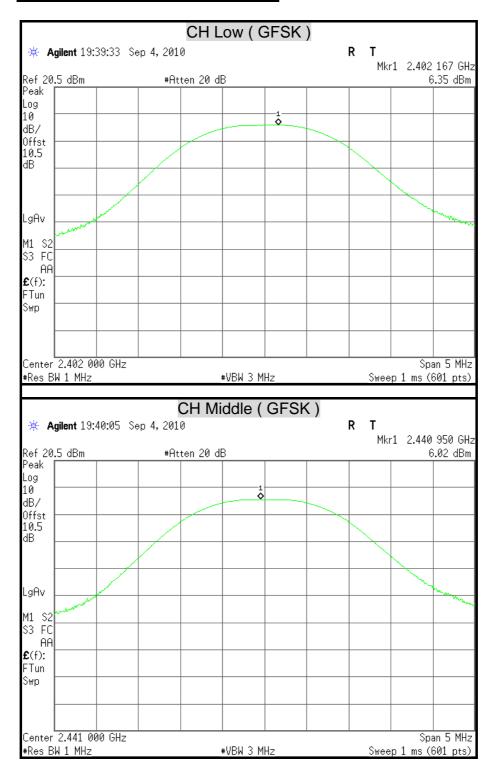
Remark: The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

Modulation Type: 8-DPSK .CFG PKT Packet Type: 31 Packet Size: 1021 (3-DH5)

Channel Frequency		Peak Power		Peak Pov	Result	
Channel	(MHz)	(dBm)	(W)	(dBm)	(W)	Nesult
Low	2402	4.97	0.0031	20.97	0.125	PASS
Middle	2441	4.46	0.0028	20.97	0.125	PASS
High	2480	3.72	0.0024	20.97	0.125	PASS

Remark: The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

MAXIMUM PEAK OUTPUT POWER



CH High (GFSK) Agilent 19:40:44 Sep 4, 2010 R T Mkr1 2.479 942 GHz Ref 20.5 dBm #Atten 20 dB 5.61 dBm Peak Log 10 dB/ 0ffst 10.5 ďΒ LgAv M1 S2 S3 FC AΑ **£**(f): FTun Swp Center 2.480 000 GHz Span 5 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 1 ms (601 pts)

CH Low (8-DPSK) R T * Agilent 01:49:22 Sep 5, 2010 Mkr1 2.402 000 GHz Ref 20.5 dBm #Atten 20 dB 4.97 dBm #Peak Log 10 dB/ Offst 10.5 dΒ LgAv S3 FC AΑ **£**(f): FTun Swp Center 2.402 000 GHz Span 8 MHz #Res BW 1.5 MHz #VBW 5 MHz Sweep 1 ms (601 pts) CH Middle (8-DPSK) * Agilent 01:49:54 Sep 5, 2010 R Т Mkr1 2.440 987 GHz #Atten 20 dB Ref 20.5 dBm 4.46 dBm #Peak Log 10 dB/ Offst 10.5 dΒ LgAv S3 FC AΑ **£**(f): FTun Swp Center 2.441 000 GHz Span 8 MHz #Res BW 1.5 MHz #VBW 5 MHz Sweep 1 ms (601 pts)

CH High (8-DPSK) Agilent 01:50:58 Sep 5, 2010 R T Mkr1 2.480 000 GHz Ref 20.5 dBm #Atten 20 dB 3.72 dBm #Peak Log 10 dB/ 0ffst 10.5 ďΒ LgAv S3 FC AΑ **£**(f): FTun Swp Center 2.480 000 GHz Span 8 MHz #Res BW 1.5 MHz #VBW 5 MHz Sweep 1 ms (601 pts)

7.3 HOPPING CHANNEL SEPARATION

LIMITS

§15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	Agilent	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT as shown in test setup without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- 3. By using the MaxHold function record the separation of adjacent channels.
- 4. Measure the frequency difference of these two adjacent channels by spectrum analyzer MARK function. And then plot the result on spectrum analyzer screen.
- 5. Repeat above procedures until all frequencies measured were complete.

TEST RESULTS

Refer to section 8.1, 20dB bandwidth measurement, the measured channel separation should be greater than two-third of 20dB bandwidth or Minimum bandwidth.

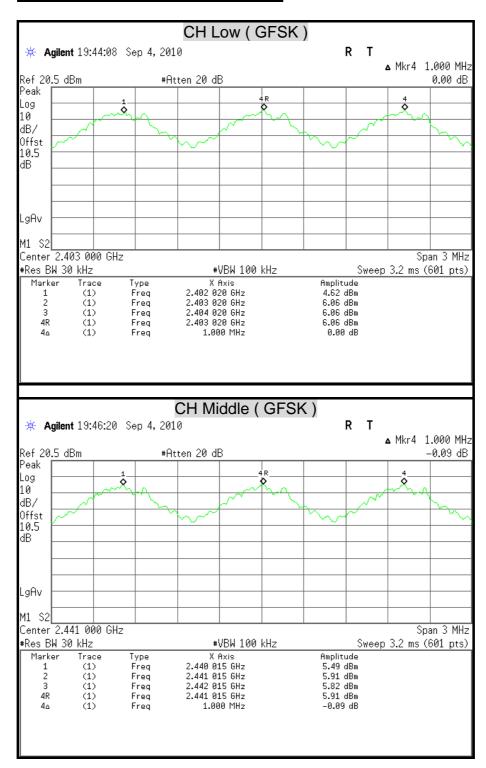
Modulation Type: GFSK, CFG PKT Packet Type: 15 Packet Size: 339 (DH5)

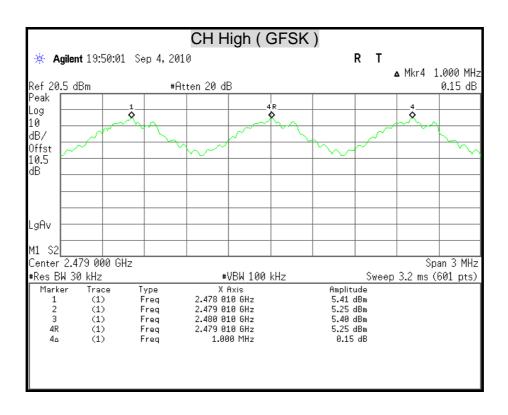
Channel	Channel Frequency (MHz)	Adjacent Hopping Channel Separation (kHz)	Two –third of 20dB bandwidth (kHz)	Minimum Bandwidth	Result
Low	2402	1000	620.00	25 kHz	PASS
Middle	2441	1000	623.33	25 kHz	PASS
High	2480	1000	620.00	25 kHz	PASS

Modulation Type: 8-DPSK, CFG PKT Packet Type: 31 Packet Size: 1021 (3-DH5)

Channel	Channel Frequency (MHz)	quency Separation 20dB bandwidth		Minimum Bandwidth	Result
Low	2402	1000	850.00	25 kHz	PASS
Middle	2441	1000	846.67	25 kHz	PASS
High	2480	1000	846.67	25 kHz	PASS

HOPPING CHANNEL SEPARATION

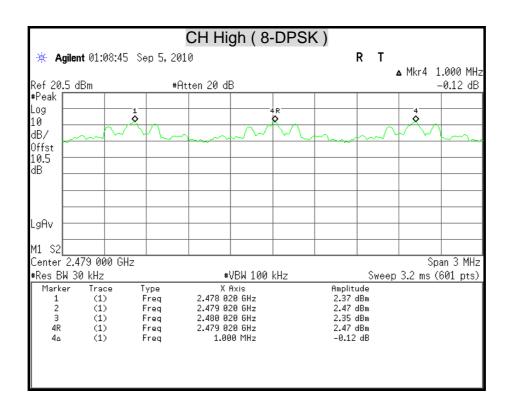




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CH Low (8-DPSK) R T Agilent 01:31:18 Sep 5, 2010 ▲ Mkr4 1.000 MHz Ref 20.5 dBm #Atten 20 dB 0.24 dB #Peak Log 10 dB/ Offst 10.5 dΒ LgAv Center 2.403 000 GHz Span 3 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (601 pts) X Axis 2.402 020 GHz Amplitude 3.72 dBm 3.58 dBm Marker Trace Туре (1) Freq 2.403 020 GHz 2.404 020 GHz 2 (1) Freq (1) 3.82 dBm Freq 4R (1) 2.403 020 GHz 3.58 dBm Freq (1) 1.000 MHz 0.24 dB CH Middle (8-DPSK) * Agilent 01:11:55 Sep 5, 2010 R Τ ▲ Mkr4 1.000 MHz Ref 20.5 dBm #Atten 20 dB -0.41 dB #Peak Log 10 dB/ Offst 10.5 dΒ LgAv Center 2.441 000 GHz Span 3 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (601 pts) X Axis 2.440 015 GHz 2.441 015 GHz 2.442 015 GHz Amplitude 3.18 dBm Marker Trace Type Freq (1) 2.76 dBm 3.12 dBm 2 (1) Freq Freq (1) 4R (1) Freq 2.440 015 GHz 3.18 dBm (1) 1.000 MHz -0.41 dB



7.4 NUMBER OF HOPPING FREQUENCY USED

LIMITS

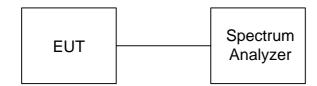
§15.247(a)(1)(iii) For frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	Agilent	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

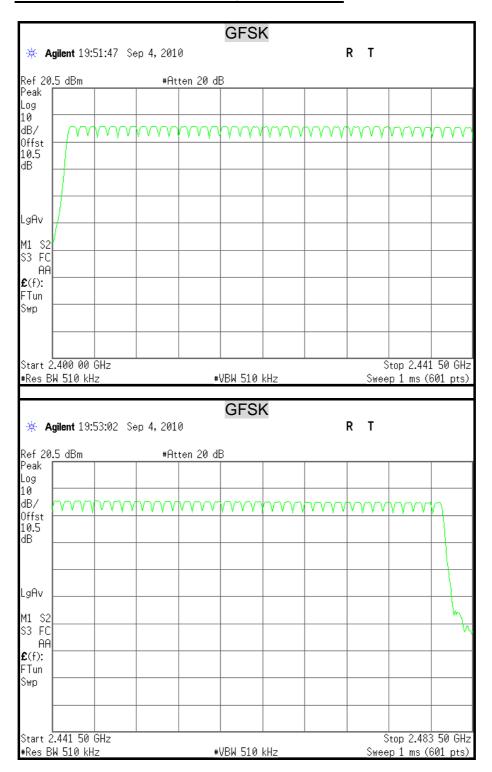
- 1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT as shown in test setup without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the spectrum analyzer on MaxHold Mode, and then keep the EUT in hopping mode.Record all the signals from each channel until each one has been recorded.
- 4. Set the spectrum analyzer on View mode and then plot the result on spectrum analyzer screen.
- 5. Repeat above procedures until all frequencies measured were complete.

TEST RESULTS

Refer to the attached plot.

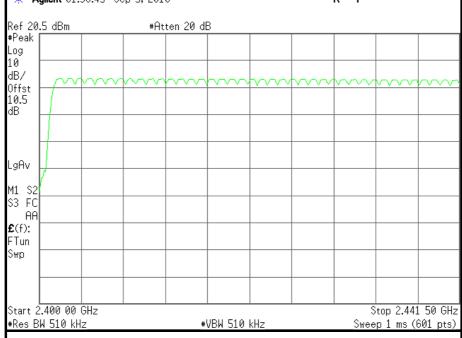
There are 79 hopping frequencies in a hopping sequence.

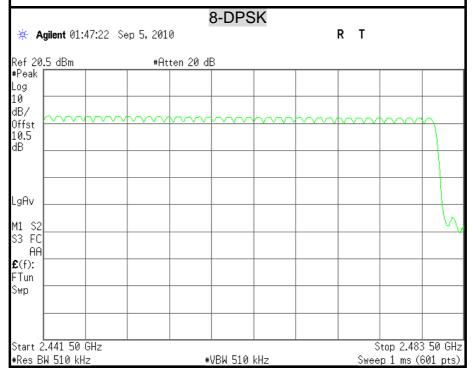
NUMBER OF HOPPING FREQUENCY USED



8-DPSK R T * Agilent 01:36:45 Sep 5, 2010 Ref 20.5 dBm #Atten 20 dB #Peak

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7.5 DWELL TIME ON EACH CHANNEL

LIMITS

§15.247(a)(1)(iii) For frequency hopping system operating in the 2400-2483.5MHz band, the average time of occupancy on any frequency shall not be greater than 0.4 second within a 31.6 second period.

TEST EQUIPMENT

Name of Equipment	of Equipment Manufacturer		Model Serial Number	
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	Agilent	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT as shown in test setup without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of spectrum analyzer on any frequency be measured and set spectrum analyzer to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- 4. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- 5. Repeat above procedures until all frequencies measured were complete.
- 6. The Bluetooth Headset has 3 type of payload, DH1, DH3, DH5. The hopping rate is 1600 per second.

The longer the payload is, the slower the hopping rate is.

TEST RESULTS

Time of occupancy on the TX channel in 31.6sec = time domain slot length \times hop rate \div number of hop per channel \times 31.6

Refer to the attached graph.

The hopping rates of Bluetooth devices change with different types of payload. The longer the payload is, the slower the hopping rate. The hopping rate scenario is defined in Bluetooth core specification.

Modulation Type: GFSK, CFG PKT Packet Type: 15 Packet Size: 339 (DH5)

Channel	Channel Frequency (MHz)	Packet type	Dwell time (ms)	Time of occupancy on the TX channel in 31.6sec (ms)	Limit for Time of	Results
	2402	DH1	0.4167	133.34	400	PASS
Low	2402	DH3	1.6670	266.72	400	PASS
	2402	DH5	2.9170	311.15	400	PASS
	2441	DH1	0.4167	133.34	400	PASS
Middle	2441	DH3	1.6670	266.72	400	PASS
	2441	DH5	2.9170	311.15	400	PASS
	2480	DH1	0.4167	133.34	400	PASS
High	2480	DH3	1.6670	266.72	400	PASS
	2480	DH5	2.9170	311.15	400	PASS

Remark:

```
Ch Low DH1 Dwell time = 0.4167 \text{ ms} \times (1600 \div 2) \div 79 \times 31.6 = 133.34 \text{ (ms)} DH3 Dwell time = 1.6670 \text{ ms} \times (1600 \div 4) \div 79 \times 31.6 = 266.72 \text{ (ms)} DH5 Dwell time = 2.9170 \text{ ms} \times (1600 \div 6) \div 79 \times 31.6 = 311.15 \text{ (ms)} Ch Middle DH1 Dwell time = 0.4167 \text{ ms} \times (1600 \div 2) \div 79 \times 31.6 = 133.34 \text{ (ms)} DH3 Dwell time = 1.6670 \text{ ms} \times (1600 \div 4) \div 79 \times 31.6 = 266.72 \text{ (ms)} DH5 Dwell time = 2.9170 \text{ ms} \times (1600 \div 6) \div 79 \times 31.6 = 311.15 \text{ (ms)} Ch High DH1 Dwell time = 0.4167 \text{ ms} \times (1600 \div 2) \div 79 \times 31.6 = 133.34 \text{ (ms)} DH3 Dwell time = 1.6670 \text{ ms} \times (1600 \div 4) \div 79 \times 31.6 = 133.34 \text{ (ms)} DH3 Dwell time = 1.6670 \text{ ms} \times (1600 \div 4) \div 79 \times 31.6 = 266.72 \text{ (ms)} DH5 Dwell time = 2.9170 \text{ ms} \times (1600 \div 6) \div 79 \times 31.6 = 311.15 \text{ (ms)}
```

Modulation Type: 8-DPSK, CFG PKT Packet Type: 31 Packet Size: 1021 (3-DH5)

Channel	Channel Frequency (MHz)	Packet type	Dwell time (ms)	Time of occupancy on the TX channel in 31.6sec (ms)	Limit for Time of occupancy on the TX channel in 31.6sec (ms)	Results
	2402	DH1	0.4333	138.66	400	PASS
Low	2402	DH3	1.6830	269.28	400	PASS
	2402	DH5	2.9330	312.85	400	PASS
	2441	DH1	0.4333	138.66	400	PASS
Middle	2441	DH3	1.6830	269.28	400	PASS
	2441	DH5	2.9330	312.85	400	PASS
	2480	DH1	0.4333	138.66	400	PASS
High	2480	DH3	1.6830	269.28	400	PASS
	2480	DH5	2.9330	312.85	400	PASS

Remark:

Ch Low

DH1 Dwell time = $0.4333 \text{ ms} \times (1600 \div 2) \div 79 \times 31.6 = 138.66 \text{ (ms)}$

DH3 Dwell time = $1.6830 \text{ ms} \times (1600 \div 4) \div 79 \times 31.6 = 269.28 \text{ (ms)}$

DH5 Dwell time = $2.9330 \text{ ms} \times (1600 \div 6) \div 79 \times 31.6 = 312.85 \text{ (ms)}$

Ch Middle

DH1 Dwell time = $0.4333 \text{ ms} \times (1600 \div 2) \div 79 \times 31.6 = 138.66 \text{ (ms)}$

DH3 Dwell time = $1.6830 \text{ ms} \times (1600 \div 4) \div 79 \times 31.6 = 269.28 \text{ (ms)}$

DH5 Dwell time = $2.9330 \text{ ms } \times (1600 \div 6) \div 79 \times 31.6 = 312.85 \text{ (ms)}$

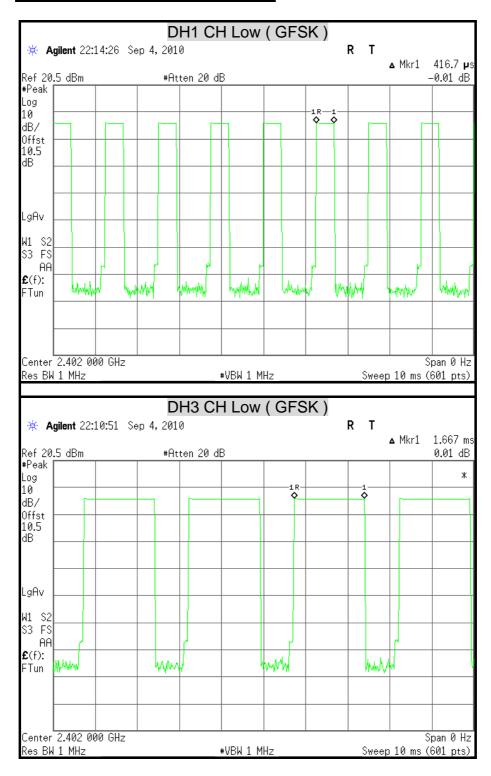
Ch High

DH1 Dwell time = $0.4333 \text{ ms} \times (1600 \div 2) \div 79 \times 31.6 = 138.66 \text{ (ms)}$

DH3 Dwell time = $1.6830 \text{ ms } \times (1600 \div 4) \div 79 \times 31.6 = 269.28 \text{ (ms)}$

DH5 Dwell time = $2.9330 \text{ ms } \times (1600 \div 6) \div 79 \times 31.6 = 312.85 \text{ (ms)}$

DWELL TIME ON EACH PAYLOAD

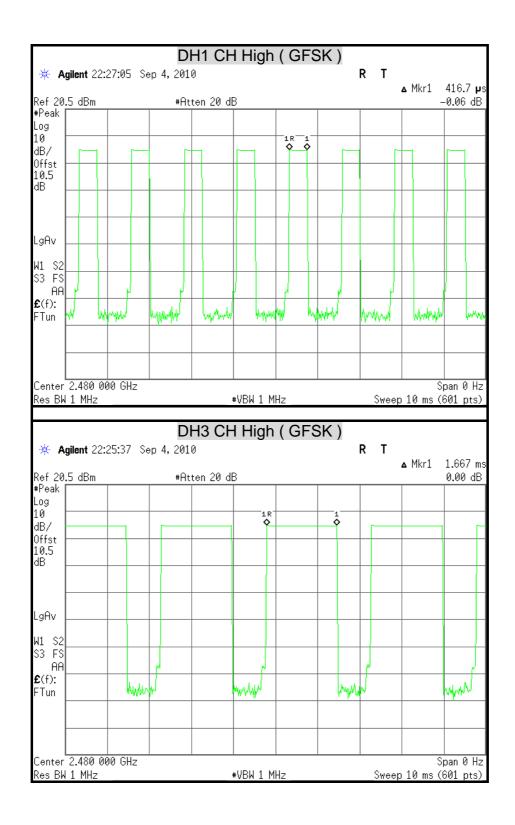


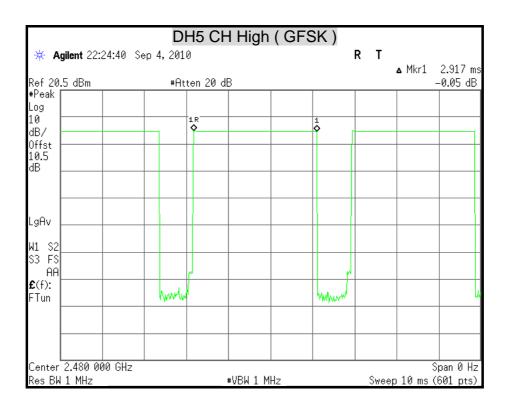
DH5 CH Low (GFSK) * Agilent 22:11:54 Sep 4, 2010 R T Δ Mkr1 2.917 ms #Atten 20 dB 0.00 dB Ref 20.5 dBm Log 10 dB/ Offst 10.5 dB LgAv W1 S2 S3 FS AA **£**(f): FTun Center 2.402 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts)

DH1 CH Middle (GFSK) Agilent 22:16:29 Sep 4, 2010 R T Δ Mkr1 416.7 **µ**s 0.66 dB Ref 20.5 dBm #Atten 20 dB Log 10 -1 ♦ dB/ Offst 10.5 dΒ LgAv S3 FS AΑ **£**(f): FTun Center 2.441 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts) DH3 CH Middle (GFSK) * Agilent 22:17:37 Sep 4, 2010 R T ▲ Mkr1 1.667 ms Ref 20.5 dBm #Atten 20 dB 0.00 dB #Peak Log 10 dB/ Offst 10.5 dΒ LgAv W1 S2 S3 FS AΑ £(f): handragen What FTun Center 2.441 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz _Sweep 10 ms (601 pts)

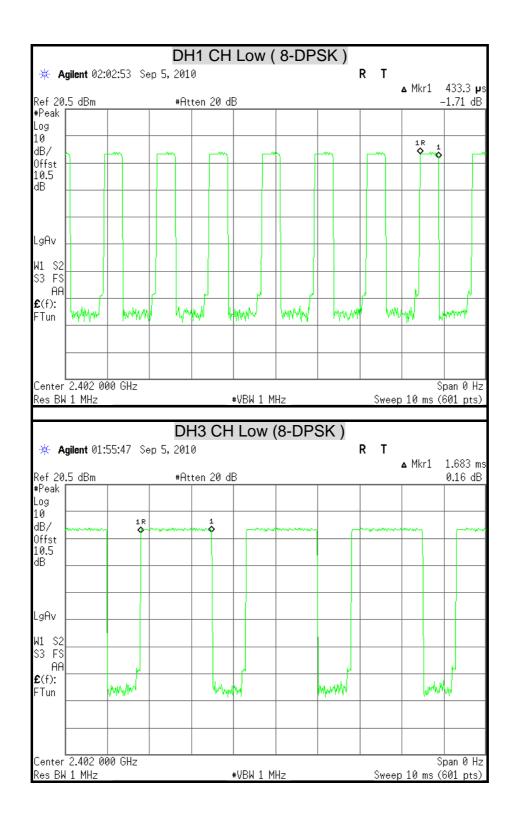
DH5 CH Middle (GFSK) Agilent 22:18:26 Sep 4, 2010 R T ▲ Mkr1 2.917 ms Ref 20.5 dBm #Atten 20 dB -0.03 dB Log 10 dB/ Offst 10.5 dB LgAv W1 S2 S3 FS AA £(f): YMMAHI MAN FTun Center 2.441 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts)

Report No.: T100825301-RP1



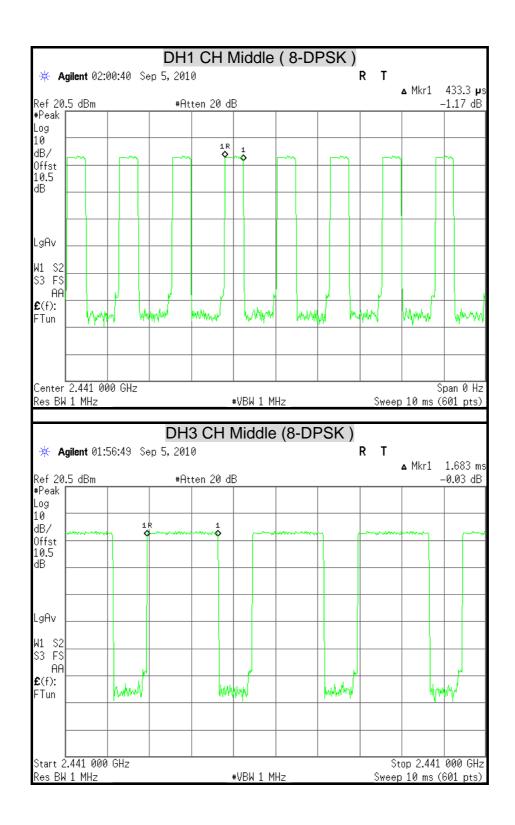


Report No.: T100825301-RP1



DH5 CH Low (8-DPSK) * Agilent 01:54:19 Sep 5, 2010 R T ▲ Mkr1 2.933 ms #Atten 20 dB Ref 20.5 dBm -1.23 dB * Log 10 dB/ Offst 10.5 dB LgAv W1 S2 S3 FS AA £(f): Mysteryork FTun Center 2.402 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts)

Report No.: T100825301-RP1



DH5 CH Middle (8-DPSK) Agilent 01:53:23 Sep 5, 2010 R T ▲ Mkr1 2.933 ms #Atten 20 dB Ref 20.5 dBm -1.11 dB Log 10 dB/ Offst 10.5 dB LgAv W1 S2 S3 FS AA **£**(f): HAMM FTun Center 2.441 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts)

DH1 CH High (8-DPSK) Agilent 02:02:06 Sep 5, 2010 R T Δ Mkr1 433.3 μs Ref 20.5 dBm #Atten 20 dB -1.19 dB Log 10 dB/ Offst 10.5 ₫B LgAv W1 S2 S3 FS AΑ **£**(f): MY AND WANAW property day FTun Center 2.480 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts) DH3 CH High (8-DPSK) * Agilent 01:57:39 Sep 5, 2010 R T ▲ Mkr1 1.683 ms #Atten 20 dB Ref 20.5 dBm -1.44 dB #Peak Log 10 dB/ Offst 10.5 dΒ LgAv S3 FS AΑ **£**(f): Maryagh FTun Start 2.480 000 GHz Stop 2.480 000 GHz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts)

DH5 CH High (8-DPSK) Agilent 01:52:24 Sep 5, 2010 R T ▲ Mkr1 2.933 ms #Atten 20 dB -0.46 dB Ref 20.5 dBm Log 10 dB/ Offst 10.5 dB LgAv W1 S2 S3 FS AA **£**(f): FTun Center 2.480 000 GHz Span 0 Hz Res BW 1 MHz #VBW 1 MHz Sweep 10 ms (601 pts)

7.6 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	Agilent	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



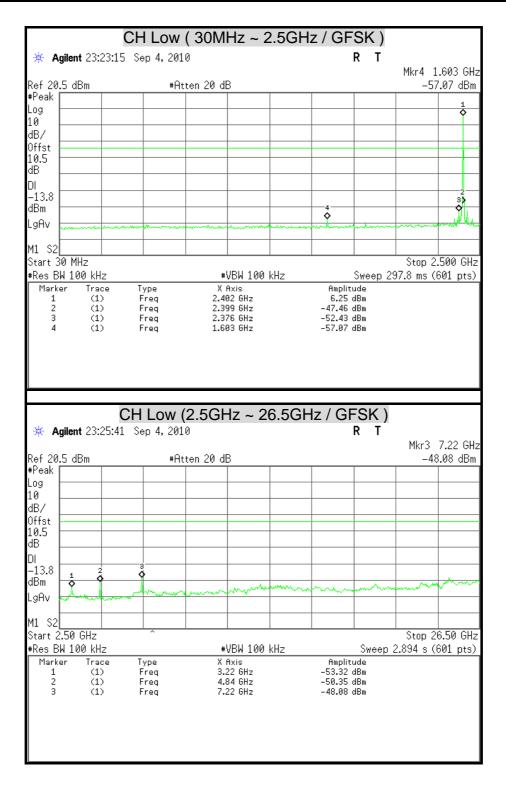
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

TEST RESULTS

OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT



Report No.: T100825301-RP1

CH Middle (30MHz ~ 2.5GHz / GFSK) Agilent 23:28:55 Sep 4, 2010 Mkr3 1.627 GHz Ref 20.5 dBm #Atten 20 dB -57.22 dBm #Peak Log 10 dB/ Offst 10.5 dΒ ום –14.0 dBm LgAv M1 S2 Stop 2.500 GHz Start 30 MHz Sweep 297.8 ms (601 pts) #Res BW 100 kHz #VBW 100 kHz X Axis 2.441 GHz 2.418 GHz Marker Trace Туре Freq Freq (1) (1) 5.98 dBm -52.67 dBm (1) 1.627 GHz -57.22 dBm CH Middle (2.5GHz ~ 26.5GHz / GFSK) Agilent 23:31:35 Sep 4, 2010 Mkr3 7.34 GHz -51.62 dBm Ref 20.5 dBm #Atten 20 dB #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -14.0 dBm LgAv M1 S2 Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz Sweep 2.894 s (601 pts) #VBW 100 kHz X Axis 3.26 GHz Marker Trace Туре Amplitude -52.45 dBm (1) (1) Freq Freq 4.90 GHz -51.39 dBm (1) 7.34 GHz -51.62 dBm

Report No.: T100825301-RP1

CH High (30MHz ~ 2.5GHz / GFSK) Agilent 23:40:22 Sep 4, 2010 R T Mkr3 1.652 GHz Ref 20.5 dBm #Atten 20 dB -55.99 dBm #Peak Log 10 dB/ Offst 10.5 dΒ ום –14.5 dBm LgAv M1 S2 Stop 2.500 GHz Start 30 MHz Sweep 297.8 ms (601 pts) #Res BW 100 kHz #VBW 100 kHz X Axis 2.480 GHz 2.455 GHz Marker Trace Туре Freq Freq 5.52 dBm -52.36 dBm (1) (1) 1.652 GHz (1) -55.99 dBm CH High (2.5GHz ~ 26.5GHz / GFSK) Agilent 23:47:23 Sep 4, 2010 Mkr2 4.972 GHz -44.34 dBm Ref 20.5 dBm #Atten 20 dB #Peak Log 10 dB/ Offst 10.5 dΒ DΙ –14.5 dBm LgAv M1 S2 Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz Sweep 2.894 s (601 pts) #VBW 100 kHz X Axis 3.316 GHz 4.972 GHz Amplitude -50.75 dBm Marker Trace Туре (1) (1) Freq Freq -44.34 dBm

Report No.: T100825301-RP1

CH Low (30MHz ~ 2.5GHz / 8-DPSK) Agilent 02:09:59 Sep 5, 2010 Mkr4 1.603 GHz Ref 20.5 dBm #Atten 20 dB -55.46 dBm #Peak Log 10 dB/ Offst 10.5 dΒ -16.0dBm LgAv M1 S2 Start 30 MHz Stop 2.500 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 297.8 ms (601 pts) X Axis 2.402 GHz 2.399 GHz 2.376 GHz Amplitude 4.02 dBm Marker Trace Туре (1) Freq -51.31 dBm -54.06 dBm 2 (1) Freq (1) Freq (1) 1.603 GHz -55.46 dBm CH Low (2.5GHz ~ 26.5GHz / 8-DPSK) Agilent 02:10:57 Sep 5, 2010 Mkr1 3.22 GHz Ref 20.5 dBm #Atten 20 dB -50.48 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -16.0dBm LgAv M1 S2 Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 2.894 s (601 pts) X Axis 3.22 GHz Amplitude Marker Trace Type Freq (1)

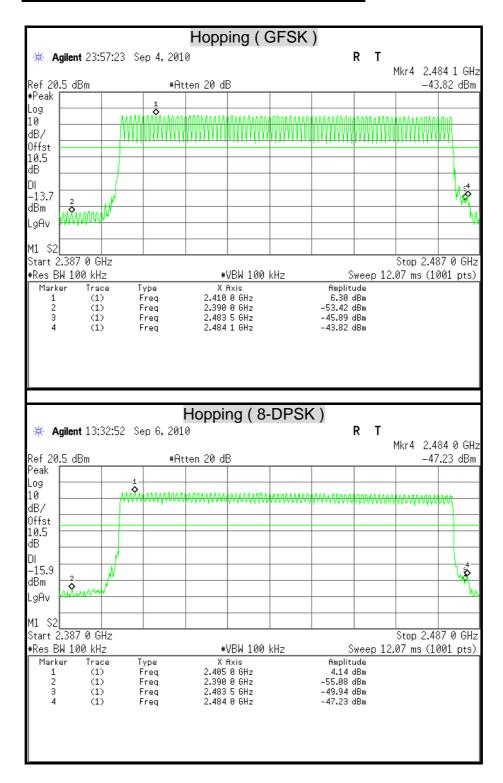
Report No.: T100825301-RP1

CH Middle (30MHz ~ 2.5GHz / 8-DPSK) * Agilent 02:19:43 Sep 5, 2010 Mkr3 1.627 GHz Ref 20.5 dBm #Atten 20 dB -55.89 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DI -16.4dBm LgAv M1 S2 Start 30 MHz Stop 2.500 GHz #Res BW 100 kHz **#VBW 100 kHz** Sweep 297.8 ms (601 pts) X Axis 2.441 GHz Type Freq Amplitude 3.56 dBm Trace (1) Marker 2.418 GHz 1.627 GHz -54.10 dBm -55.89 dBm (1) (1) Freq CH Middle (2.5GHz ~ 26.5GHz / 8-DPSK) Agilent 02:20:23 Sep 5, 2010 Mkr1 3.26 GHz Ref 20.5 dBm #Atten 20 dB -50.93 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -16.4dBm LgAv M1 S2 Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 2.894 s (601 pts) Amplitude -50.93 dBm X Axis 3.26 GHz Marker Trace Type Freq

Report No.: T100825301-RP1

CH High (30MHz ~ 2.5GHz / 8-DPSK) * Agilent 02:26:20 Sep 5, 2010 Mkr3 1.652 GHz Ref 20.5 dBm #Atten 20 dB -55.35 dBm #Peak Log 10 dB/ Offst 10.5 dΒ -17.3dBm LgAv M1 S2 Start 30 MHz Stop 2.500 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 297.8 ms (601 pts) X Axis 2.480 GHz Type Freq Amplitude 2.71 dBm -55.54 dBm Trace (1) Marker 2.455 GHz 1.652 GHz (1) -55.35 dBm (1) Freq CH High (2.5GHz ~ 26.5GHz / 8-DPSK) * Agilent 02:33:54 Sep 5, 2010 Mkr2 4.972 GHz Ref 20.5 dBm #Atten 20 dB -57.66 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -17.3dBm LgAv M1 S2 Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 2.894 s (1001 pts) Amplitude -49.53 dBm X Axis Marker Trace Type Freq (1) 3.316 GHz (1) 4.972 GHz -57.66 dBm

CONDUCTED MEASUREMENT BAND EDGES



7.7 RADIATED EMISSION

LIMITS

(1) § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

(2) § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

^{1. 1} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

^{2. &}lt;sup>2</sup> Above 38.6

(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (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

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

966Chamber_A

Name of Equipment Manufacture		Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100221	05/03/2011
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-249	11/12/2010
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00078732	07/05/2011
Pre-Amplifier	Agilent	8449B	3008A01471	08/02/2011
Pre-Amplifier	HP	8447F	2944A03748	09/24/2010
RF Coaxial Cable	HUBER-SUHNER	SUCOFLEX 104PEA	SN31347	07/21/2011
RF Coaxial Cable	HUBER-SUHNER	SUCOFLEX 104PEA	SN31350	07/21/2011
RF Coaxial Cable HUBER-SUHNER		SUCOFLEX 104PEA	SN31355	07/21/2011
LOOP Antenna	EMCO	6502	8905-2356	06/09/2011
Notch Filters Band Reject	Micro-Tronics	BRM05702-01	009	N.C.R

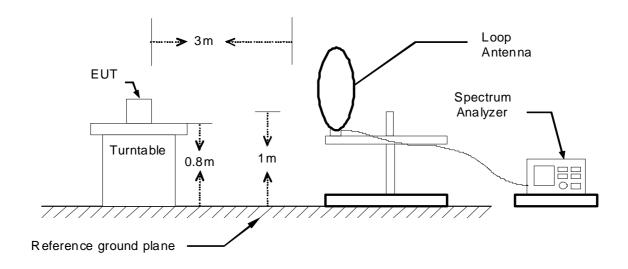
Remark: 1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R = No Calibration Request.

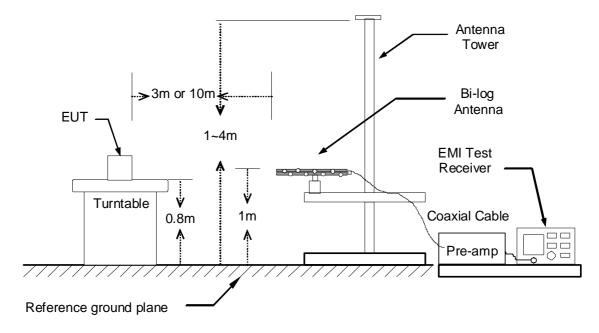
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

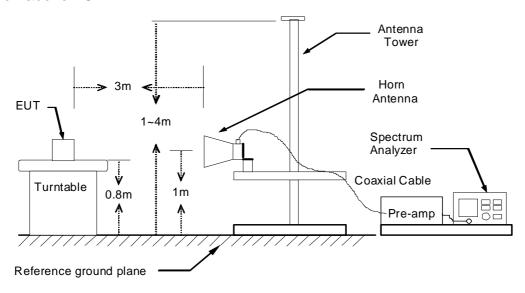
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. White measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. White measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- 3. 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 polarization of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name Jawbone		Test By	Rueyyan Lin
Model JBF		Test Date	2010/11/23
Test Mode	Normal operating (worst case)	TEMP & Humidity	24.8°C, 51%

	966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	·		Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark				
46.49	29.19	-10.42	18.77	40.00	-21.23	Peak				
152.22	29.20	-10.50	18.71	43.50	-24.79	Peak				
260.86	27.18	-11.07	16.11	46.00	-29.89	Peak				
368.53	27.76	-7.90	19.86	46.00	-26.14	Peak				
485.90	27.96	-4.63	23.34	46.00	-22.66	Peak				
614.91	28.71	-1.79	26.92	46.00	-19.08	Peak				
807.94	24.49	1.50	25.99	46.00	-20.01	Peak				
		966 Chambe	er_A at 3Met	er / Vertical						
Frequency (MHz)	quency Reading Correction		Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark				
34.85	32.05	-11.78	20.27	40.00	-19.73	Peak				

Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
34.85	32.05	-11.78	20.27	40.00	-19.73	Peak
158.04	28.12	-10.26	17.86	43.50	-25.64	Peak
300.63	29.30	-9.59	19.72	46.00	-26.28	Peak
464.56	26.70	-4.97	21.73	46.00	-24.27	Peak
642.07	27.66	-1.32	26.34	46.00	-19.66	Peak
807.94	25.97	1.50	27.47	46.00	-18.53	Peak

- 1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
- 2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) PreAmp.Gain (dB)
- 4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

TX Above 1 GHz

Product Name	Jawbone	Test By	Albert Lai
Model	Model JBF		2010/08/31
Test Mode	GFSK TX / CH Low	TEMP & Humidity	23.6°C, 46%

	966 Chamber_A at 3Meter / Horizontal												
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark				
1602.00	45.09		-2.12	42.97		74.00	54.00	-31.03	Peak				
2046.00	43.24		1.23	44.47		74.00	54.00	-29.53	Peak				
2402.00	100.96	90.10	1.94	102.90	92.04				Carrier				
2770.00	42.54		2.72	45.26		74.00	54.00	-28.74	Peak				
3202.50	42.37		3.28	45.65		74.00	54.00	-28.35	Peak				
4807.50	41.08		6.11	47.19		74.00	54.00	-26.81	Peak				
6120.00	40.73		8.35	49.08		74.00	54.00	-24.92	Peak				

	966 Chamber_A at 3Meter / Vertical												
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark				
1560.00	43.75		-2.47	41.28		74.00	54.00	-32.72	Peak				
2062.00	44.07		1.26	45.33		74.00	54.00	-28.67	Peak				
2402.00	96.74	91.44	1.94	98.68	93.38				Carrier				
2784.00	42.84		2.75	45.59		74.00	54.00	-28.41	Peak				
3217.50	42.42		3.28	45.70		74.00	54.00	-28.30	Peak				
4807.50	42.62		6.11	48.73		74.00	54.00	-25.27	Peak				
5992.50	40.49		7.93	48.42		74.00	54.00	-25.58	Peak				

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 6. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

 $Remark\ AVG = Result(AV) - Limit(AV)$

Product Name	duct Name Jawbone		Albert Lai
Model	JBF	Test Date	2010/08/31
Test Mode	GFSK TX / CH Middle	TEMP & Humidity	23.6°C, 46%

	966 Chamber_A at 3Meter / Horizontal											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark			
1628.00	46.72		-1.91	44.81		74.00	54.00	-29.19	Peak			
2056.00	43.23		1.25	44.48		74.00	54.00	-29.52	Peak			
2441.00	96.83	83.66	2.02	98.85	85.68				Carrier			
2788.00	43.21		2.76	45.97		74.00	54.00	-28.03	Peak			
4065.00	40.11		5.13	45.24		74.00	54.00	-28.76	Peak			
4882.50	43.65		6.00	49.65		74.00	54.00	-24.35	Peak			
7192.50	40.49		10.22	50.71		74.00	54.00	-23.29	Peak			
		a	66 Chaml	hor A at 3	SMeter / V	ortical	•					

	966 Chamber_A at 3Meter / Vertical								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark
1792.00	45.07		-0.57	44.50		74.00	54.00	-29.50	Peak
2258.00	43.53		1.66	45.19		74.00	54.00	-28.81	Peak
2441.00	92.97	79.80	2.02	94.99	81.82				Carrier
2604.00	43.84		2.36	46.20		74.00	54.00	-27.80	Peak
4222.50	40.36		5.65	46.01		74.00	54.00	-27.99	Peak
4882.50	44.61		6.00	50.61		74.00	54.00	-23.39	Peak
6517.50	39.30		9.65	48.95		74.00	54.00	-25.05	Peak

Remark

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 6. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

Remark AVG = Result(AV) - Limit(AV)

Product Name Jawbone		Test By	Albert Lai	
Model	JBF	Test Date	2010/08/31	
Test Mode	GFSK TX / CH High	TEMP & Humidity	23.6°C, 46%	

Report No.: T100825301-RP1

	966 Chamber_A at 3Meter / Horizontal								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark
1654.00	46.53		-1.70	44.83		74.00	54.00	-29.17	Peak
2122.00	43.11		1.38	44.49		74.00	54.00	-29.51	Peak
2480.00	98.98	88.47	2.10	101.08	90.57				Carrier
2840.00	43.47		2.87	46.34		74.00	54.00	-27.66	Peak
3652.50	43.39		3.85	47.24		74.00	54.00	-26.76	Peak
4957.50	44.06		5.89	49.95		74.00	54.00	-24.05	Peak
6360.00	41.23		9.15	50.38		74.00	54.00	-23.62	Peak

	966 Chamber_A at 3Meter / Vertical								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1654.00	44.87		-1.70	43.17		74.00	54.00	-30.83	Peak
2132.00	43.51		1.40	44.91		74.00	54.00	-29.09	Peak
2480.00	96.67	86.58	2.10	98.77	88.68				Carrier
2788.00	43.49		2.76	46.25		74.00	54.00	-27.75	Peak
3960.00	41.75		4.80	46.55		74.00	54.00	-27.45	Peak
4957.50	51.41	41.60	5.89	57.30	47.49	74.00	54.00	-6.51	AVG
6015.00	40.81		8.00	48.81		74.00	54.00	-25.19	Peak

Remark

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 6. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

 $Remark\ AVG = Result(AV) - Limit(AV)$

Product Name Jawbone		Test By	Albert Lai	
Model JBF		Test Date	2010/08/31	
Test Mode	8-DPSK TX / CH Low	TEMP & Humidity	23.6°C, 46%	

Report No.: T100825301-RP1

	966 Chamber_A at 3Meter / Horizontal								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)		Margin (dB)	Remark
1262.00	45.68		-3.69	41.99		74.00	54.00	-32.01	Peak
1720.00	44.25		-1.16	43.09		74.00	54.00	-30.91	Peak
2402.00	98.94	85.97	1.94	100.88	87.91				Carrier
2878.00	43.77		2.95	46.72		74.00	54.00	-27.28	Peak
3720.00	41.91		4.06	45.97		74.00	54.00	-28.03	Peak
4785.00	42.23		6.15	48.38		74.00	54.00	-25.62	Peak
6157.50	40.50		8.48	48.98		74.00	54.00	-25.02	Peak
		9	66 Cham	hor A at 3	RMotor / V	ortical			

	966 Chamber_A at 3Meter / Vertical								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark
1334.00	45.63		-3.47	42.16		74.00	54.00	-31.84	Peak
1870.00	44.47		0.07	44.54		74.00	54.00	-29.46	Peak
2402.00	92.68	79.37	1.94	94.62	81.31				Carrier
2628.00	43.23		2.41	45.64		74.00	54.00	-28.36	Peak
3472.50	42.67		3.37	46.04		74.00	54.00	-27.96	Peak
4410.00	41.17		6.27	47.44		74.00	54.00	-26.56	Peak
5970.00	40.90		7.88	48.78		74.00	54.00	-25.22	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 6. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

Remark AVG = Result(AV) - Limit(AV)

Product Name Jawbone		Test By	Albert Lai	
Model JBF		Test Date	2010/08/31	
Test Mode	8-DPSK TX / CH Middle	TEMP & Humidity	23.6°C, 46%	

Report No.: T100825301-RP1

Carrier

Peak

Peak

Peak

Peak

-28.40

-29.26

-27.34

-24.82

	966 Chamber_A at 3Meter / Horizontal								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1628.00	46.41		-1.91	44.50		74.00	54.00	-29.50	Peak
2142.00	44.43		1.42	45.85		74.00	54.00	-28.15	Peak
2441.00	94.93	79.78	2.02	96.95	81.80				Carrier
2926.00	43.52		3.05	46.57		74.00	54.00	-27.43	Peak
4297.50	40.38		5.90	46.28		74.00	54.00	-27.72	Peak
6015.00	39.69		8.00	47.69		74.00	54.00	-26.31	Peak
6600.00	40.09		9.77	49.86		74.00	54.00	-24.14	Peak
		9	66 Chaml	ber_A at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1628.00	45.14		-1.91	43.23		74.00	54.00	-30.77	Peak
2088.00	44.03		1.32	45.35		74.00	54.00	-28.65	Peak

Remark:

2441.00

2726.00

3802.50

4965.00

6307.50

91.24

42.98

40.43

40.78

40.20

76.71

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

2.02

2.62

4.31

5.88

8.98

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

93.26

45.60

44.74

46.66

49.18

78.73

74.00

74.00

74.00

74.00

54.00

54.00

54.00

54.00

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 6. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

 $Remark\ AVG = Result(AV) - Limit(AV)$

Product Name Jawbone		Test By	Albert Lai	
Model JBF		Test Date	2010/08/31	
Test Mode	8-DPSK TX / CH High	TEMP & Humidity	23.6°C, 46%	

Report No.: T100825301-RP1

		96	6 Chambe	er_A at 3N	Meter / Ho	rizontal			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1424.00	45.30		-3.19	42.11		74.00	54.00	-31.89	Peak
1654.00	46.59		-1.70	44.89		74.00	54.00	-29.11	Peak
2480.00	97.17	84.56	2.10	99.27	86.66				Carrier
2772.00	43.19		2.72	45.91		74.00	54.00	-28.09	Peak
3480.00	41.98		3.37	45.35		74.00	54.00	-28.65	Peak
4582.50	41.50		6.45	47.95		74.00	54.00	-26.05	Peak
5617.50	40.89		7.11	48.00		74.00	54.00	-26.00	Peak
		9	66 Chaml	ber_A at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)		Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1650.00	44.43		-1.73	42.70		74.00	54.00	-31.30	Peak
1938.00	43.84		0.63	44.47		74.00	54.00	-29.53	Peak
2480.00	94.79	82.63	2.10	96.89	84.73				Carrier

Remark:

2874.00

3757.50

4957.50

6127.50

43.48

41.65

43.04

40.56

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

2.94

4.17

5.89

8.38

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

46.42

45.82

48.93

48.94

74.00

74.00

74.00

74.00

54.00

54.00

54.00

54.00

-27.58

-28.18

-25.07

-25.06

Peak

Peak

Peak

Peak

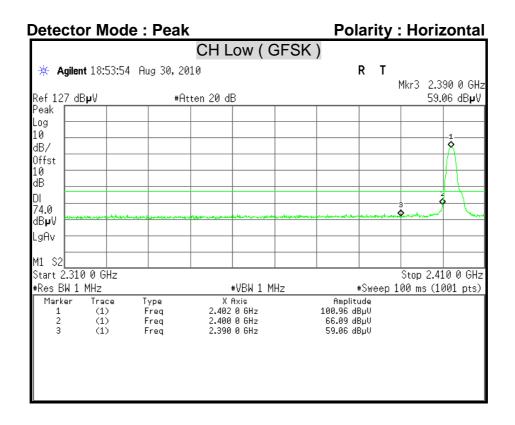
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 6. Result = Reading + Correction Factor

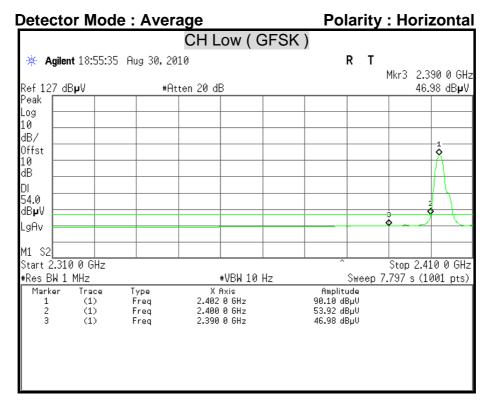
Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

 $Remark\ AVG = Result(AV) - Limit(AV)$

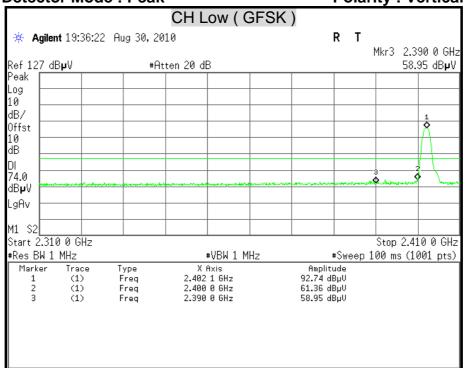
Restricted Band Edges



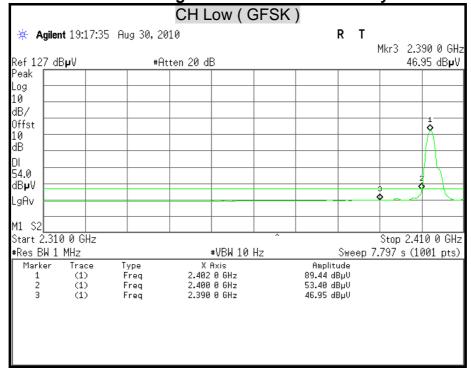


Detector Mode: Peak Polarity: Vertical

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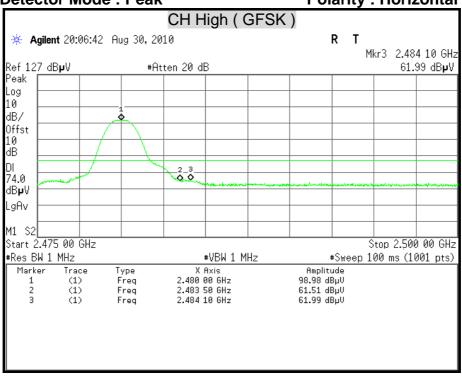


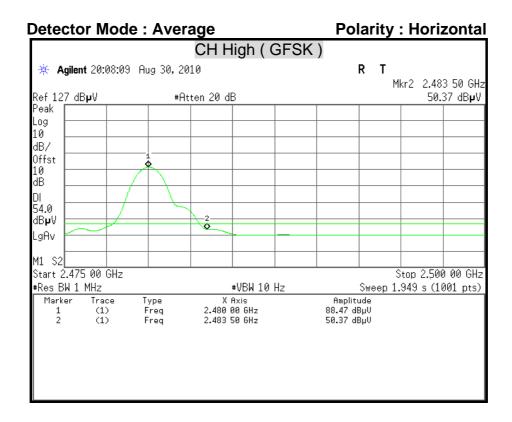
Detector Mode: Average Polarity: Vertical



Detector Mode: Peak Polarity: Horizontal

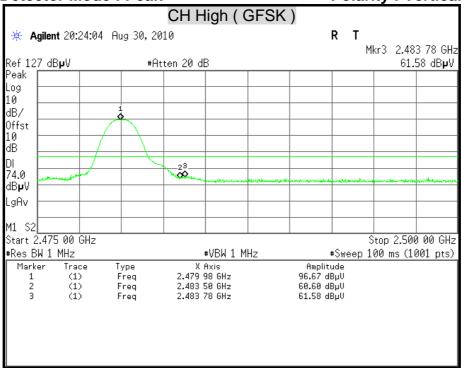
Report No.: T100825301-RP1



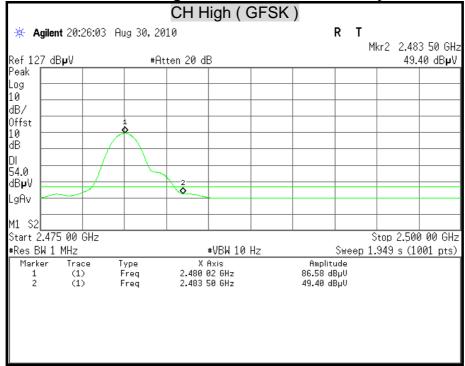


Detector Mode : Peak Polarity : Vertical

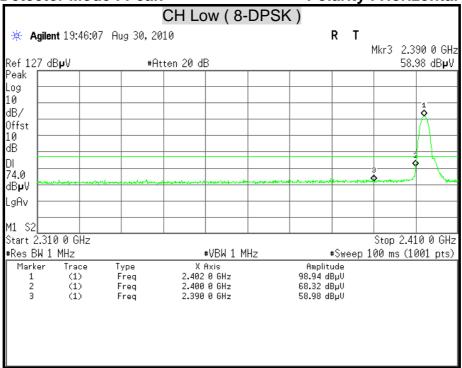
Report No.: T100825301-RP1



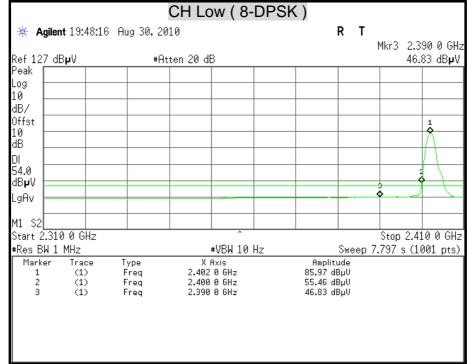


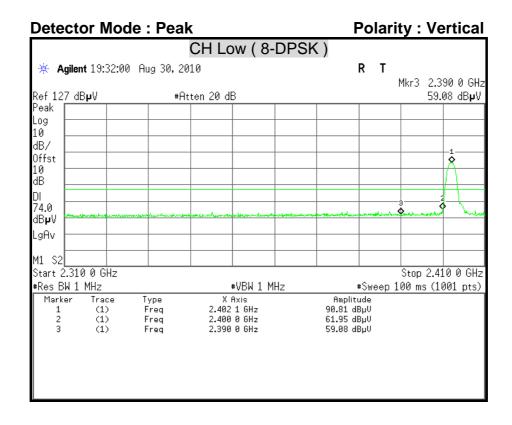


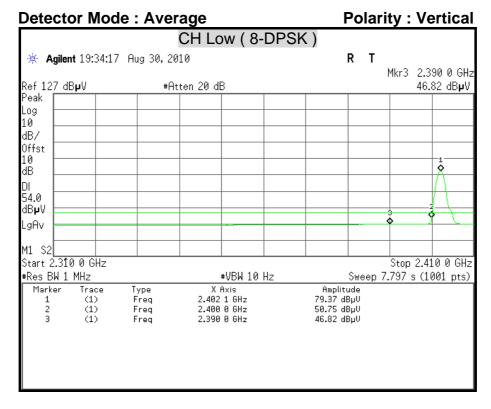
Detector Mode: Peak Polarity: Horizontal



Detector Mode: Average Polarity: Horizontal

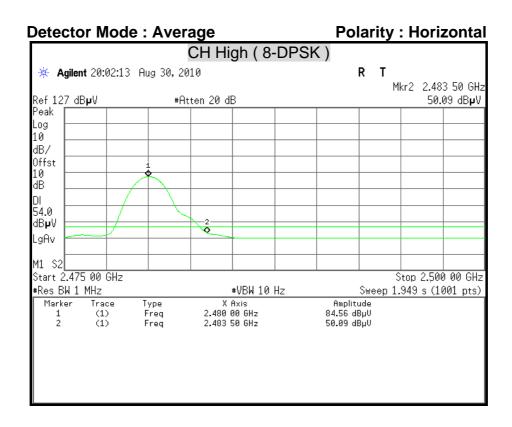


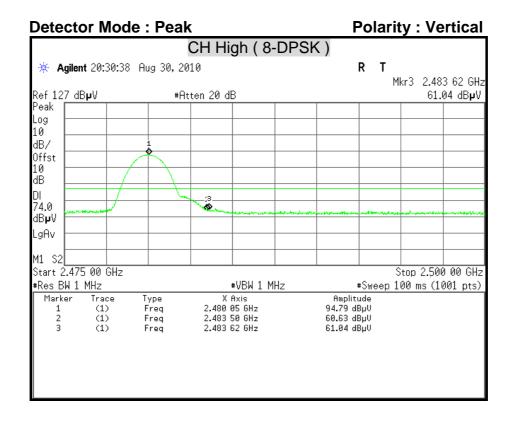


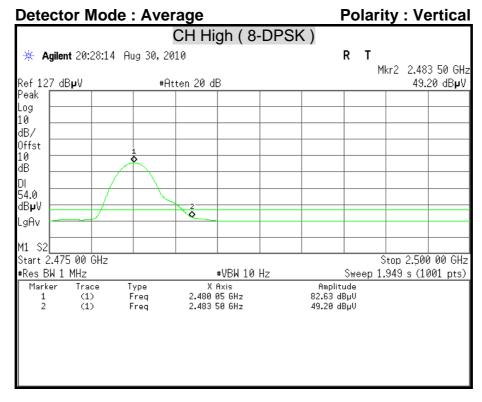


Report No.: T100825301-RP1

Detector Mode: Peak Polarity: Horizontal CH High (8-DPSK) Agilent 19:59:07 Aug 30, 2010 R Τ Mkr2 2.483 50 GHz 62.75 dB**µ**V Ref 127 dB**µ**V #Atten 20 dB Log 10 dB/ Offst 10 ďΒ 74.0 dB₽V LgAv M1 S2 Start 2.475 00 GHz Stop 2.500 00 GHz #Res BW 1 MHz #VBW 1 MHz #Sweep 100 ms (1001 pts) X Axis 2.480 00 GHz 2.483 50 GHz Amplitude 97.17 dBµV 62.75 dBµV Marker Туре (1) (1) Freq Freq







7.8 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

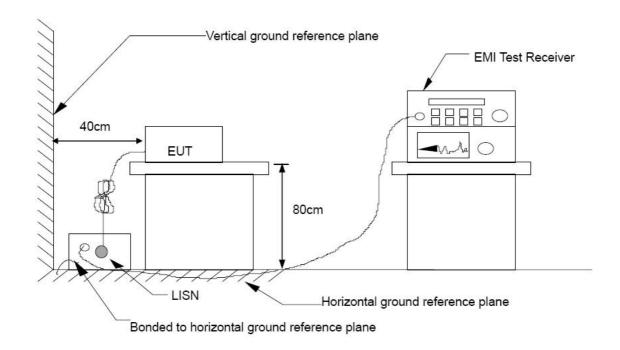
Frequency Range	Conducted Limit (dBµv)				
(MHz)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5.00	56	46			
5.00 - 30.0	60	50			

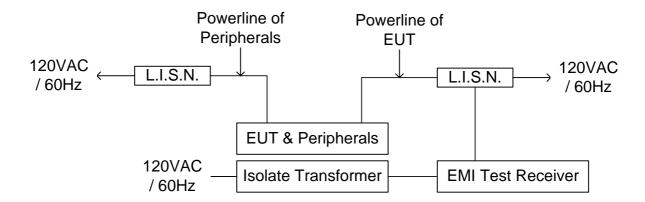
TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/08/2011
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/22/2011
TEST RECEIVER	ROHDE & SCHWARZ	ESCS 30	835418/008	10/27/2010
PULSE LIMIT	ROHDE & SCHWARZ	ESH3-Z2	100117	09/17/2010
N Type Coaxial Cable	BELDEN	8268 M17/164	003	07/09/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP





TEST PROCEDURE

The test procedure is performed in a $4m \times 3m \times 2.4m$ (LxWxH) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) \times 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

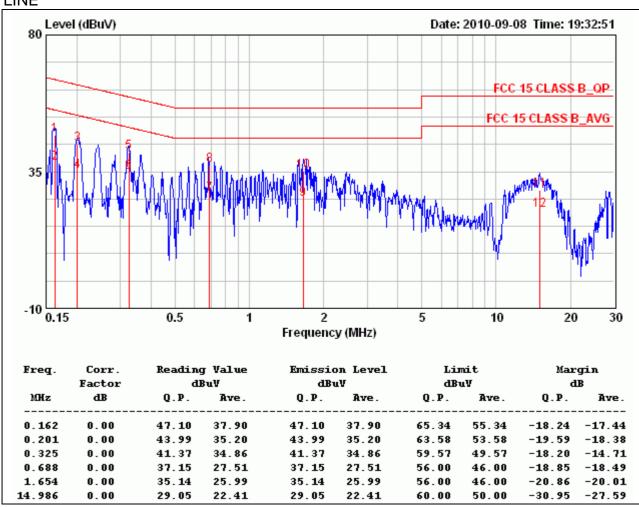
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	Jawbone	Test By	Vic Lin
Model	JBF	Test Date	2010/09/08
Test Mode	Power Adapter	Temp. & Humidity	23°C, 55%

LINE



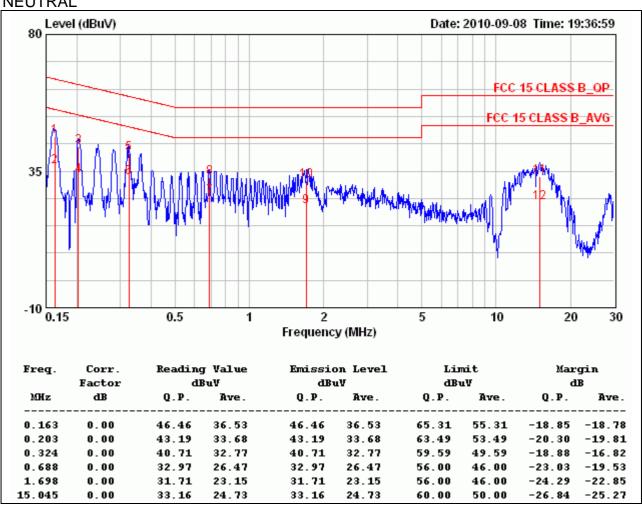
- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value



Product Name	Jawbone	Test By	Vic Lin
Model	JBF	Test Date	2010/09/08
Test Mode	Power Adapter	Temp. & Humidity	23°C, 55%

Report No.: T100825301-RP1

NEUTRAL



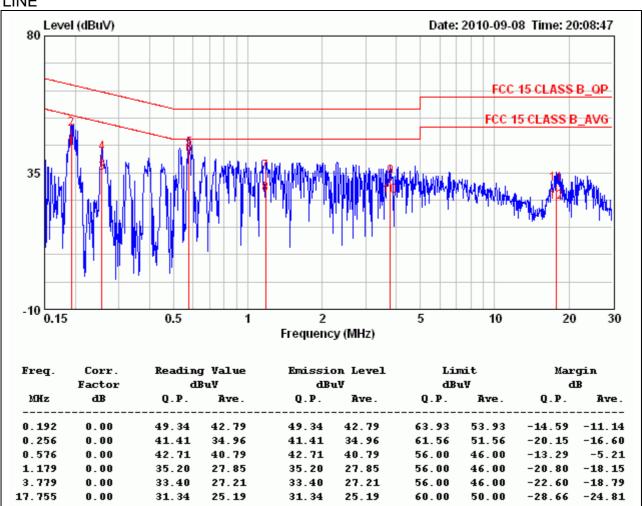
- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value



Product Name	Jawbone	Test By	Vic Lin
Model	JBF	Test Date	2010/09/08
Test Mode	Charge Mode	Temp. & Humidity	23°C, 55%

Report No.: T100825301-RP1

LINE

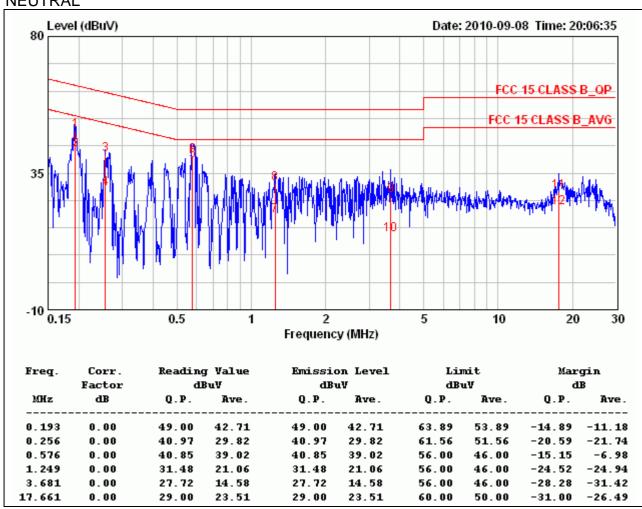


- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value

Product Name	Jawbone	Test By	Vic Lin
Model	JBF	Test Date	2010/09/08
Test Mode	Charge Mode	Temp. & Humidity	23°C, 55%

Report No.: T100825301-RP1

NEUTRAL



- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value