





TEST REPORT

Report No.: SRMC2009-H024-E0009

Product Name: GSM/GPRS/EDGE Digital Mobile Phone

with Bluetooth

Product Model: i280

Applicant: verykool USA, Inc.

Manufacture: Inventec Appliances (Jiangning)

Corporation

Specification: 47CFR Part 15 July 10, 2008, Subpart C

FCC ID: WA61280

The State Radio Monitoring Center
State Radio Spectrum Monitoring and Testing Center

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

No.: SRMC2009-H024-E0009 FCC ID: WA6I280

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1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio Monitoring Center.

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio Monitoring Center

State Radio Spectrum Monitoring and Testing Center

Address: No.80 Beilishi Road, Xicheng District, Beijing China

City: Beijing
Country or Region: P.R. China
Contacted person: Wang Junfeng

Tel +86 10 68009181 +86 10 68009202 Fax: +86 10 68009195 +86 10 68009205

Email: Wangjf@srrc.org.cn

1.3 Applicant's details

Company: verykool USA, Inc.

Address: 4350 Executive Drive. Suite 100, San Diego, CA 92121,

USA

City: San Diego

Country or Region: USA Grantee Code: WA6

Contacted person: Sunny Choi

Tel: +1-858-373-1600 / +1-858-2489036

Fax: +1-858-373-1505

Email: sunny.choi@infosonics.com

1.4 Manufacturer's details

Company: Inventec Appliances (Jiangning) Corporation

Address: Jiangning Economic and Technological Development Zone

City: Nanjing, 211153 Jiangsu

Country or Region: P.R.China

Grantee Code: WA6

Contacted person: William Zhang
Tel: +86 25 52262313
Fax: +86 25 52218366

Email: zhang.hui-liang@inventec-inc.com

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1.5 Application details

Date of receipt of test sample: 1st Dec. 2008 Date of test: 1st Dec. 2008 to 10th Apr.2009

1.6 Reference specification

47CFR Part 15, July 10, 2008, Subpart C

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth
FCC ID	WA6I280
Frequency range	2.4000~2.4835GHz
Number of channel	79
Modulation type	GFSK
Duplex mode	TDD
Channel spacing	1MHz
Data rate	1Mbps
Antenna type	Internal/Gain: 0.5dBi
Power Supply	Battery or charger
Rated Power Supply Voltage	3.7V

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1.7.2 EUT details

Name	Model	IMEI
GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth	i280	352026019999990

1.7.3 Auxiliary equipment details

Equipment	Charger
Manufacturer	DEE VAN ENTERPRISE CO., LTD
Model Number	DSC-5WU-05 FUS 050050

Equipment	Battery
Manufacturer	BYD COMPANY LIMITED
Model Number	LP053850ARU
Capacity	1200mAh

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2. Test information:

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Occupied Bandwidth	15.247(a) (1)	Pass
2	Peak Power Output	15.247(a) (1)	Pass
3	Spurious RF Conducted Emissions	15.247(d)	Pass
4	Spurious Radiated Emissions	15.247(d), 15.35(b), 15.209	Pass
5	Band Edge Compliance	15.247(d)	Pass
6	Dwell time	15.247(a) (1)(iii)	Pass
7	Channel separation	15.247(a) (1)	Pass
8	Number of Hopping frequencies	15.247(a) (iii)	Pass

Checked by:
nazit
Issued date:
23 rd April, 2009

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2.2 Test result

2.2.1 Occupied Bandwidth-§15.247(a) (1)

2.2.1.1 Ambient condition

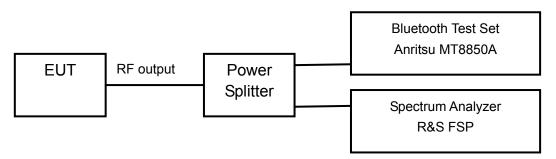
Temperature	Relative humidity	Pressure
23°C	23%	101.2kPa

2.2.1.2 Test Description

The Equipment Under Test (EUT) was setup in a shielded room to perform the occupied bandwidth measurements.

The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The results recorded were measured with the modulation which produces the worst-case (widest) occupied bandwidth. The resolution bandwidth for measuring the reference level and the occupied bandwidth was 10 kHz. The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.



2.2.1.3 Test limit

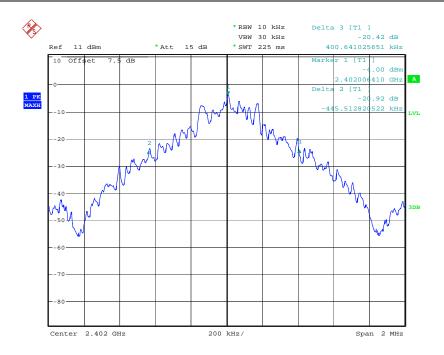
FCC Part 15, Subpart C, §15.247 (a) (1)

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.

2.2.1.4 Test result

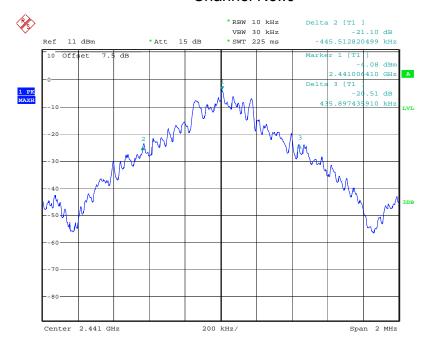
Carrier frequency (MHz)	Channel No.	20 dB bandwidth(KHz)
2402	0	846.15
2441	39	881.41
2480	79	919.87

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Date: 10.APR.2009 17:40:37

Carrier frequency (MHz): 2402 Channel No.:0



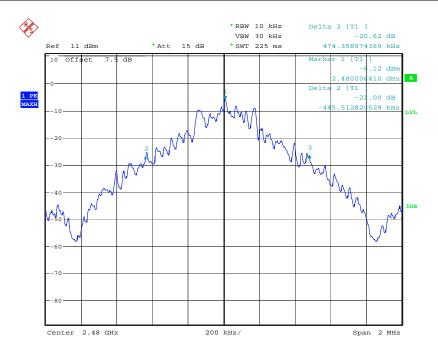
Date: 10.APR.2009 17:42:09

Carrier frequency (MHz): 2441 Channel No.:39

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Date: 10.APR.2009 17:44:43

Carrier frequency (MHz): 2480 Channel No.:78
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2.2.2 Peak power output-§15.247(a) (1)

2.2.2.1 Ambient condition:

Temperature	Relative humidity	Pressure
23°C	23%	101.2kPa

2.2.2.2 Test Description

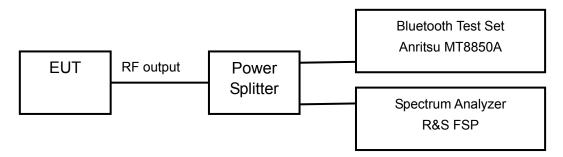
The Equipment Under Test (EUT) was set up in a shielded room to perform the output power measurements.

The results recorded were measured with the modulation which produces the worst-case (highest) output power.

The resolution bandwidth for measuring the output power was 1 MHz.

The reference level of the spectrum analyzer was set higher than the output power of the EUT.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.



2.2.2.3 Test limit

FCC Part 15, Subpart C, §15.247 (b) (1)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.

Used conversion factor: Limit (dBm) = 10 log (Limit (W)/1mW)

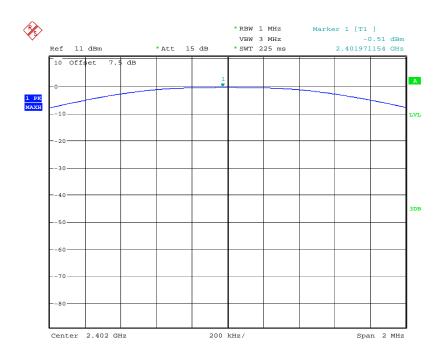
==> Maximum Output Power: 30 dBm

2.2.2.4 Test result:

Offset=antenna gain+ the insertion loss of the power splitter+ cable loss =0.50+6.50+0.50=7.50dB

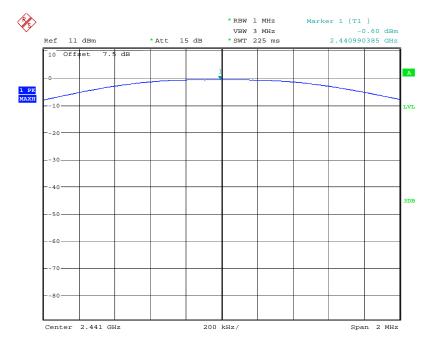
Carrier frequency (MHz)	Channel No.	E.R.I.P. (dBm)
2402	0	-0.52
2441	39	-0.60
2480	78	-2.55

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Date: 10.APR.2009 17:46:46

Carrier frequency (MHz): 2402 Channel No.:0



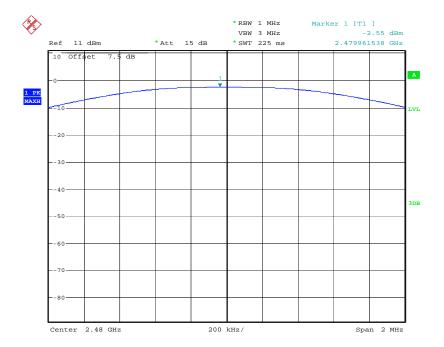
Date: 10.APR.2009 17:46:12

Carrier frequency (MHz): 2441 Channel No.:39

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Date: 10.APR.2009 17:45:46

Carrier frequency (MHz): 2480 Channel No.:78

2.2.3 Spurious RF conducted emissions-§15.247(d)

2.2.3.1 Ambient condition:

Temperature	Relative humidity	Pressure
23°C	23%	101.2kPa

2.2.3.2 Test Description

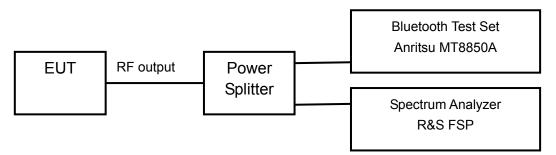
The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

Analyzer settings:

- Detector: Peak-Maxhold
- Frequency range: 30 ~25000 MHz
- Resolution Bandwidth (RBW): 100 kHz
- Video Bandwidth (VBW): 300 kHz

The reference value for the measurement of the spurious RF conducted emissions is determined during the test "band edge compliance" (cf. chapter 4.5). This value is used to calculate the 20 dBc limit.



2.2.3.3 Test limit

FCC Part 15, Subpart C, §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 band that contains the highest level of the desired power.

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2.2.3.4 Test result

Carrier frequency (MHz): 2402

Channel No.:0

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta to limit dB
2977.16	-50.29	-1.37	-21.37	28.92
4464.74	-51.55	-1.37	-21.37	30.18

Carrier frequency (MHz): 2441

Channel No.:39

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta to limit dB
3052.48	-53.39	-1.31	-21.31	32.08
4577.72	-52.41	-1.31	-21.31	31.10

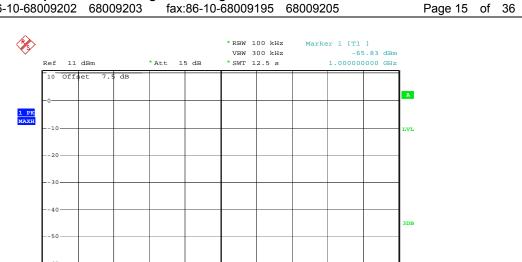
Carrier frequency (MHz): 2480

Channel No.:78

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta to limit dB
3127.80	-55.09	-3.93	-23.93	31.16
4690.70	-54.83	-3.93	-23.93	30.90

Note: The Reference value see 2.2.5 Band edge compliance

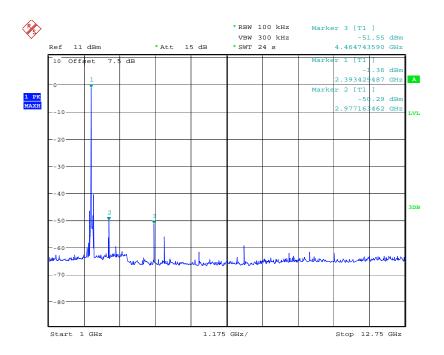
Stop 1 GHz



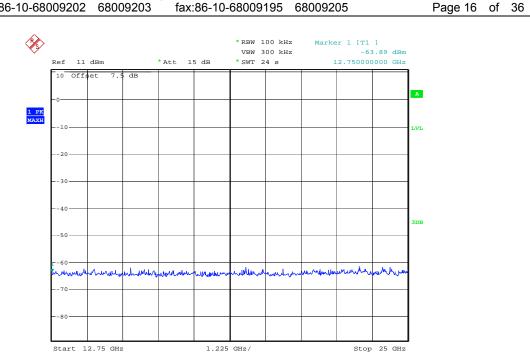
97 MHz/

Date: 10.APR.2009 17:47:59

Start 30 MHz

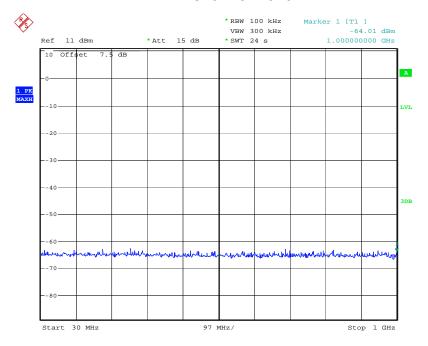


Date: 10.APR.2009 17:49:35



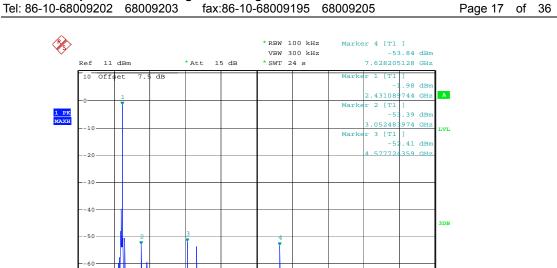
Date: 10.APR.2009 17:50:36

Carrier frequency (MHz): 2402 Channel No.:0



Date: 10.APR.2009 17:51:20

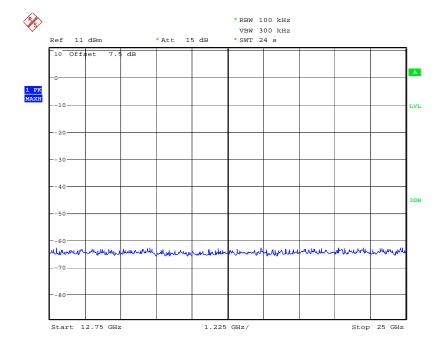
Stop 12.75 GHz



1.175 GHz/

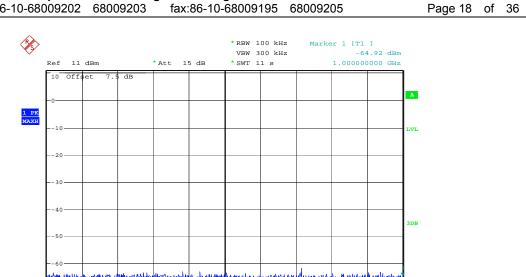
Date: 10.APR.2009 17:52:46

Start 1 GHz



Date: 10.APR.2009 17:53:31

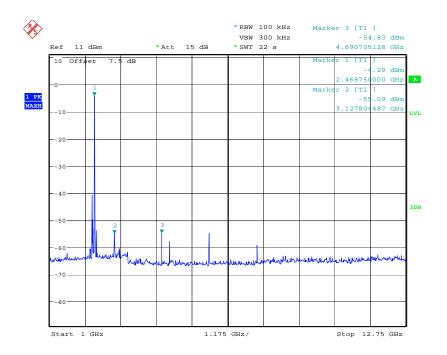
Stop 1 GHz



97 MHz/

Date: 10.APR.2009 17:55:18

Start 30 MHz

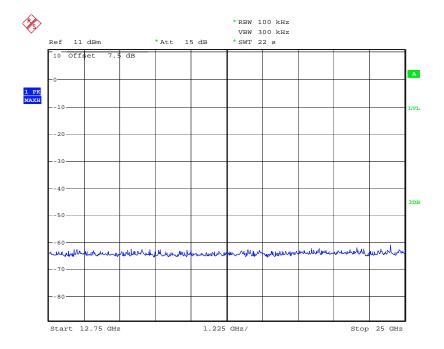


Date: 10.APR.2009 17:57:17

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Date: 10.APR.2009 17:58:10

Carrier frequency (MHz): 2480 Channel No.:78

2.2.4 Spurious radiated emissions-§15.247(d),§15.35(b),§15.209

2.2.4.1 Ambient condition

Temperature	Relative humidity	Pressure	
22°C	26%	101.4kPa	

2.2.4.2 Test Description

The test set-up was made in accordance to the general provisions of ANSI C 63.4-2003.

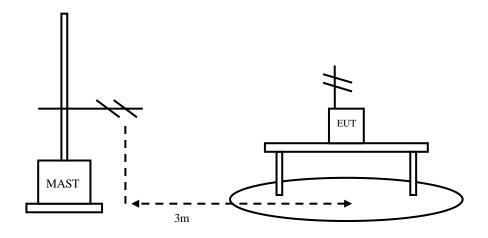
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The radiated emissions measurements were made in a typical installation configuration.

Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz or above, using receive log period antenna HL562 or Ridge horn antenna HF906.

During the test, the height of receive antenna shall be moved from 1 to4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.



2.2.4.3 Test limit

FCC Part 15, Subpart C, §15.247 (d)

... In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits

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specified in Section 15.209(a) (see Section 15.205(c)).

FCC Part 15, Subpart C, §15.209, Radiated Emission Limits

Frequency Range (MHz)	Class B Limit (dBµV/m)
30 – 88	40.0
88 – 216	43.5
216 – 960	46.0
above 960	54.0

§15.35(b)

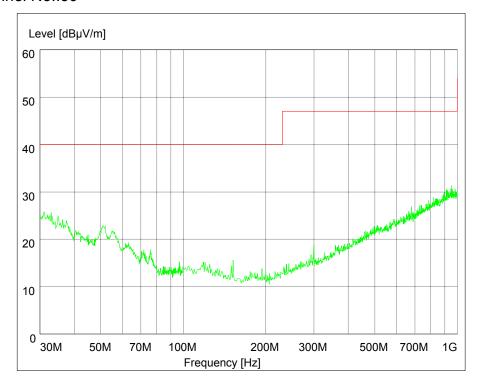
..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: Limit ($dB\mu V/m$) = 20 log (Limit ($\mu V/m$)/1 $\mu V/m$)

2.2.4.4 Test result

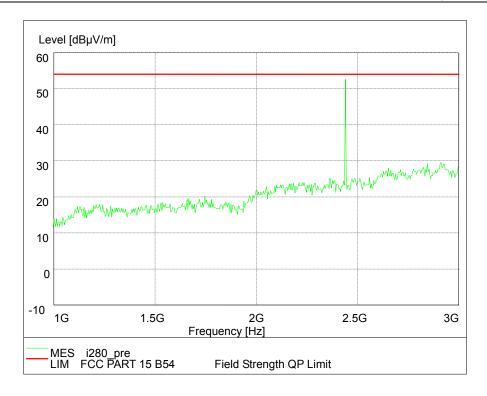
Carrier frequency (MHz): 2441

Channel No.:39

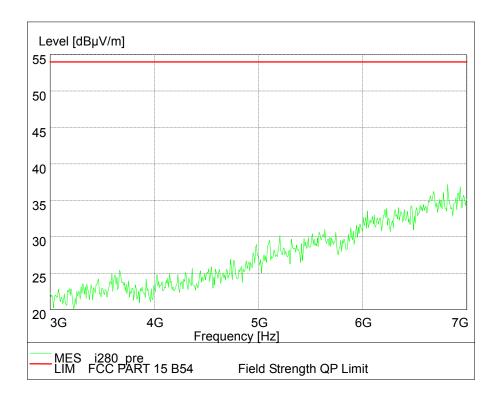


Frequency Range: 30MHz -1000 MHz

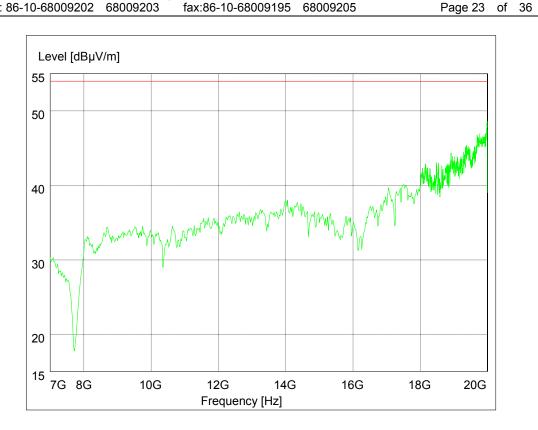
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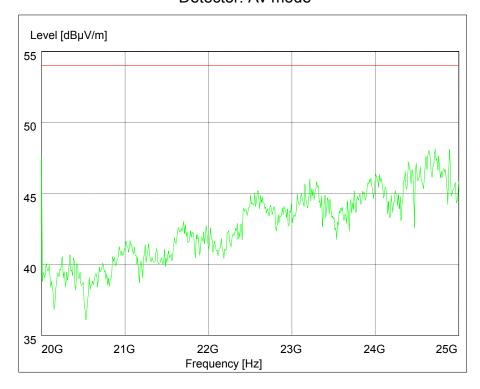
Frequency Range : 1GHz -3GHz
Detector: Av mode



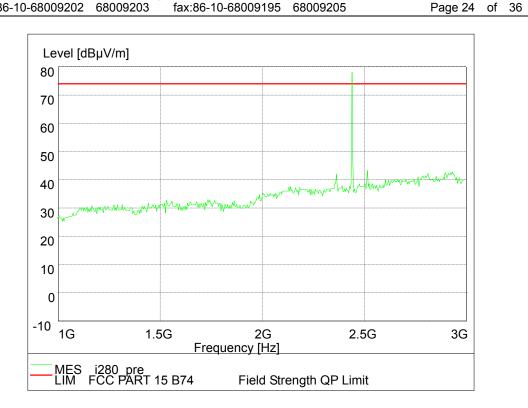
Frequency Range : 3GHz-7GHz Detector: Av mode



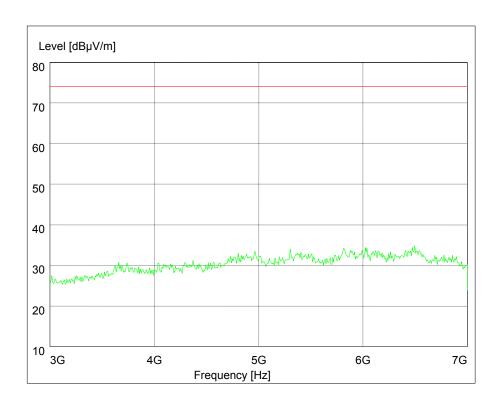
Frequency Range : 7GHz-20GHz Detector: Av mode



Frequency Range : 20GHz-25GHz Detector: Av mode

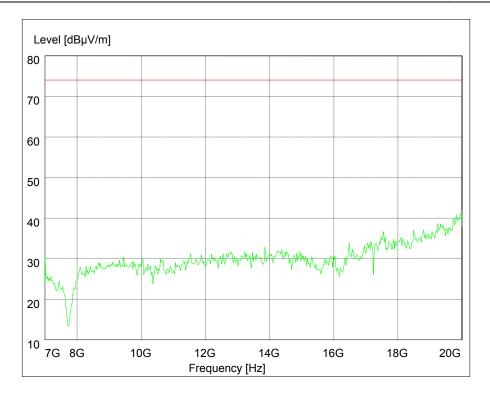


Frequency Range: 1GHz-3GHz Detector: PK mode

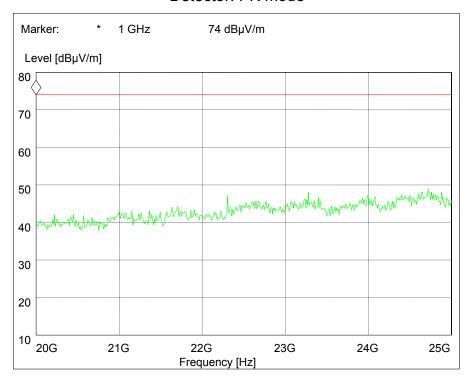


Frequency Range: 3GHz-7GHz Detector: PK mode

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Frequency Range: 7GHz-20GHz Detector: PK mode



Frequency Range: 20GHz-25GHz Detector: PK mode

2.2.5 Band edge compliance-§15.247(d)

2.2.5.1 Ambient condition

Temperature	Relative humidity	Pressure	
23°C	23%	101.2kPa	

2.2.5.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

For the first measurement the EUT is set to transmit on the lowest channel (2402 MHz). The lower band edge is 2400 MHz.

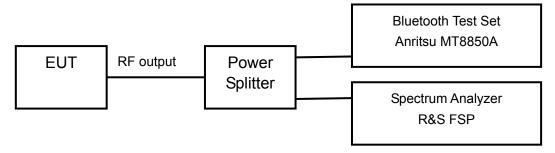
Analyzer settings:

- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz

For the second measurement the EUT is set to transmit on the highest channel (2480MHz). The higher band edge is 2483.5 MHz.

Analyzer settings:

- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz



2.2.5.3 Test limit

FCC Part 15.247 (d)

"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.

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2.2.5.4 Test result

Carrier frequency (MHz): 2402

Channel No.:0

Frequency	Measured value	Reference	Limit	Delta to limit
MHz	dBm	value	dBm	dB
		dBm		
2400	-41.93	-1.37	-21.37	20.56

Carrier frequency (MHz): 2480

Channel No.:78

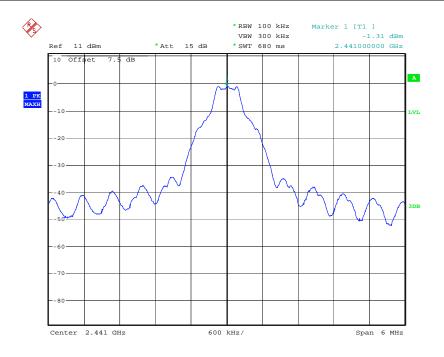
Frequency	Measured value	Reference	Limit	Delta to limit
MHz	dBm	value	dBm	dB
		dBm		
2483.5	-47.47	-3.93	-23.93	23.54



Date: 10.APR.2009 18:07:21

Carrier frequency (MHz): 2402 Channel No.:0

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Date: 10.APR.2009 18:08:19

Carrier frequency (MHz): 2441 Channel No.:39



Date: 10.APR.2009 18:10:19

Carrier frequency (MHz): 2480 Channel No.:78 Tel: 86-10-68009202 68009203 fax:86-10-68009195 68009205 Page 29 of 36

2.2.6 Dwell time-§15.247(a) (1)(iii)

2.2.6.1 Ambient condition

Temperature	Relative humidity	Pressure	
23°C	23%	101.2kPa	

2.2.6.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the dwell time measurements.

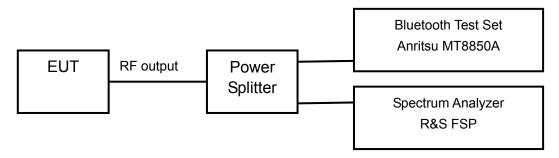
The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

The time slot length is measured of three different packet types which are available in the Bluetooth technology. Those are DH1, DH3 and DH5 packets. The dwell time is calculated by:

Dwell time = time slot length * hop rate * 31.6/ number of hopping channels

with:

- hop rate=1600 * 1/s for DH1 packets =1600
- hop rate=1600/3 * 1/s for DH3 packets =533.33
- hop rate=1600/5 * 1/s for DH5 packets =320
- number of hopping channels=79
- 31.6 s=0.4 seconds multiplied by the number of hopping channels=0.4s * 79



2.2.6.3 Test limit

FCC Part 15, Subpart C, §15.247 (a) (1) (iii)

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

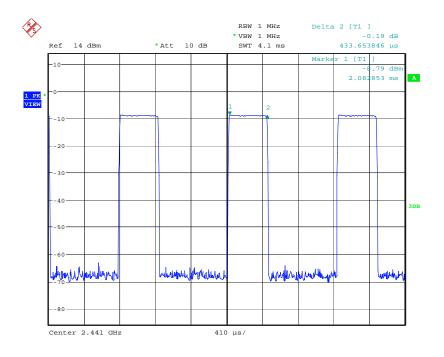
Since the Bluetooth technology uses 79 channels this period is calculated to be 31.6 seconds.

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2.2.6.4 Test result

Packet	Time slot length	Dwell time	Dwell time
type	ms		ms
DH1	0.433	time slot length * 1600* 31.6 /79	277.12
DH3	1.702	time slot length * 31.6 *1600/3 /79	363.09
DH5	2.856	time slot length * 31.6 *1600/5 /79	365.57

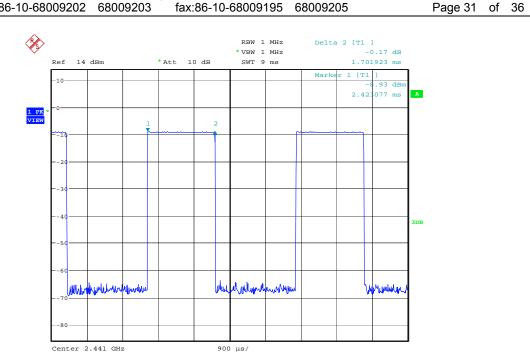


Date: 10.APR.2009 18:32:33

Carrier frequency (MHz): 2441 Packet type:DH1

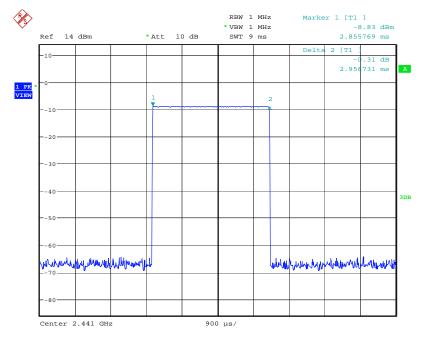
No.: SRMC2009-H024-E0009





Date: 10.APR.2009 18:30:11

Carrier frequency (MHz): 2441 Packet type:DH3



Date: 10.APR.2009 18:31:17

Carrier frequency (MHz): 2441 Packet type:DH5

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2.2.7 Channel separation-§15.247(a) (1)

2.2.7.1 Ambient condition

Temperature	Relative humidity	Pressure	
23°C	23%	101.2kPa	

2.2.7.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the channel separation measurements.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

Analyzer settings:

- Detector: Peak-Maxhold

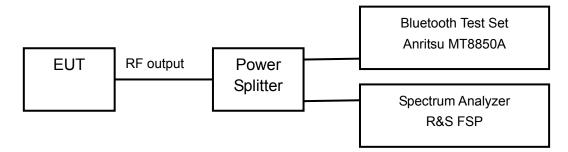
- Span: 3 MHz

- Centre Frequency: 2441 MHz

- Resolution Bandwidth (RBW): 30 kHz

- Video Bandwidth (VBW): 100 kHz

- Sweep Time: Coupled



2.2.7.3 Test limit

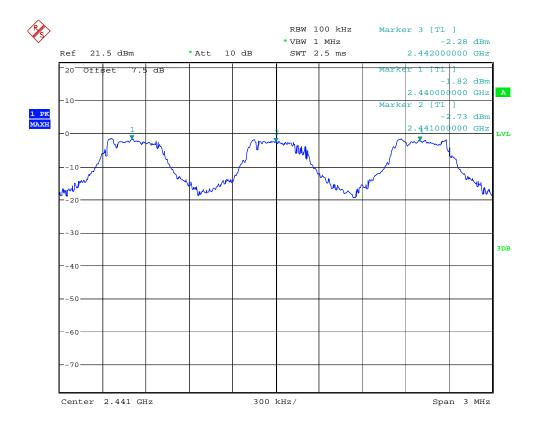
FCC Part 15, Subpart C, §15.247 (a) (1)

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.

2.2.7.4 Test result

Carrier frequency MHz	Channel No.	Op-mode	Channel separation MHz
2441	39	Hopping mode	1

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Carrier frequency (MHz): 2441 Op-mode: Hopping mode Tel: 86-10-68009202 68009203 fax:86-10-68009195 68009205 Page 34 of 36

2.2.8 Number of hopping frequencies-§15.247(a) (iii)

2.2.8.1 Ambient condition

Temperature	Relative humidity	Pressure
23°C	23%	101.2kPa

2.2.8.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the number of hopping frequencies measurement.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

Analyzer settings:

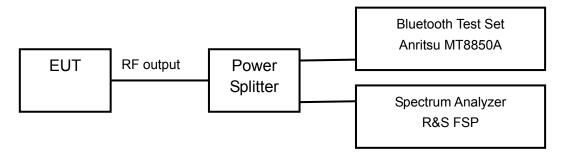
Detector: Peak-MaxholdStart frequency: 2400 MHz

- Stop frequency: 2483.5 MHz

- Resolution Bandwidth (RBW): 100 kHz

- Video Bandwidth (VBW): 300 kHz

- Sweep Time: Coupled



2.2.8.3 Test limit

FCC Part 15, Subpart C, §15.247 (a) (iii)

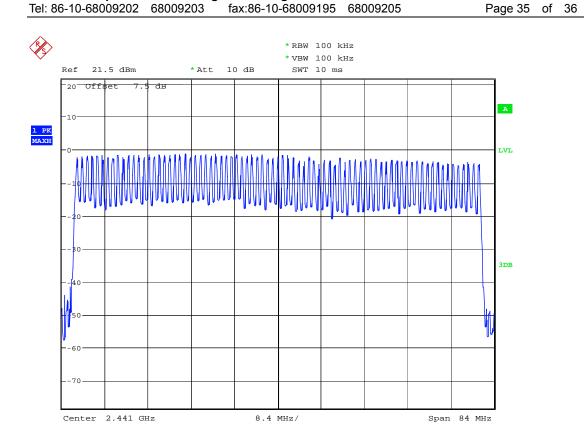
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

2.2.8.4 Test result

Carrier frequency MHz	Channel No.	Op-mode	Result
2441	39	Hopping mode	Pass

No.: SRMC2009-H024-E0009

FCC ID: WA6I280



Date: 10.APR.2009 18:37:19

Carrier frequency (MHz): 2441 Op-mode: Hopping mode No.: SRMC2009-H024-E0009 FCC ID: WA6I280

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2.3. List of test equipment

No.	Name/Model	Manufacturer	S/N	Calibration Date
1	Bluetooth Test Set Anritsu MT8850A	Anritsu	6K 00001600	Aug. 2008
2	R&S FSP Spectrum Analyzer	R&S	100118	Aug. 2008
3	1506A Power Splitter	Weinschel	MN154	Aug. 2008
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA		Aug. 2008
5	ESI 40 EMI test receiver	R&S	100015	Aug. 2008
6	SMR 20 Signal generator	R&S	100086	Aug. 2008
7	CMU 200 Radio tester	R&S	100313	Aug. 2008
8	12.65m*8.03m*7.50m Fully-Anechoic Chamber	FRANKONIA		Aug. 2008
9	HL562 Ultra log test antenna	R&S	100016	Aug. 2008
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	Aug. 2008
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	Aug. 2008
12	PS2000 Turn Table	FRANKONIA		Aug. 2008
13	MA260 Antenna Master	FRANKONIA		Aug. 2008
14	ES-K1EMI test software	R&S		
15	HL562 Receive antenna	R&S	100167	Aug. 2008