



EMC TEST REPORT for Intentional Radiator (BT Function) No. 140100321SHA-001

Applicant : i.Tech Dynamic Global Distribution Limited

Room 3607, 36/F, Skyline Tower, 39 Wang Kwong Road,

Kowloon Bay, Kowloon, Hong Kong

Manufacturer : Weifang Santian Technology Co., Ltd

4th Building, No.13426, East YuQing Street High-tech

Zone, Weifang, Shandong, China

Equipment : Bluetooth headset

Type/Model : i.Tech MyVoice 3000(C51-B3000-XX), S40, S41, S42,

S43

SUMMARY

The equipment complies with the requirements according to the following standard(s):

47CFR Part 15 (2013): Radio Frequency Devices

ANSI C63.4 (2003): American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Date of issue: February 14, 2014

Nem li

Prepared by: Reviewed by:

Nemo Li (*Project Engineer*) Daniel Zhao (*Reviewer*)





Description of Test Facility

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1. General Information

1.1 Applicant Information

Applicant: i.Tech Dynamic Global Distribution Limited

Room 3607, 36/F, Skyline Tower, 39 Wang Kwong

Road Kowloon Bay, Kowloon, Hong Kong

Manufacturer: Weifang Santian Technology Co., Ltd

4th Building, No.13426, East YuQing Street High-tech

Zone, Weifang, Shandong, China

Sample received date : February 10, 2014

Date of test : February 10, 2014 ~ February 14, 2014

1.2 Identification of the EUT

Equipment: Bluetooth headset

Type/model: i.Tech MyVoice 3000(C51-B3000-XX), S40, S41, S42,

S43

FCC ID: 2ABWPB3000



FCC ID: 2ABWPB3000

1.3 Technical specification

Operation Frequency Band: 2402 - 2480 MHz

Modulation: GFSK, π/4-DQPSK and 8DQPSK

Gain of Antenna: Internal PCB antenna, 2.0dBi max

Rating: Supplied by built-in lithium battery, 3.7Vdc, Class III

Description of EUT: The product is Bluetooth Headset. It has five models. All

> models have the same circuit schematic, components, critical components and also the same construction. The difference is the model name and trademark. Model i.Tech MyVoice 3000(C51-B3000-XX) was tested and

the test result was also valid for all other models.

Channel Description: The channel spacing is 1MHz.

1.4 Mode of operation during the test / Test peripherals used

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

The lowest, middle and highest channel were tested as representatives (2402MHz, 2441MHz and 2480MHz).

Test Peripherals:

PC: HP Compaq 6280 Pro Microtower

Adaptor: SWITCHING POWER SUPPLY PSB05R-05Q





2. Test Specification

2.1 Instrument list

Equipment	Туре	Manu.	Internal no.	Cal. Date	Due date
Semi-anechoic	-	Albatross	EC 3048	2013-5-12	2014-5-11
chamber		project			
Test Receiver	ESCS 30	R&S	EC 2107	2013-10-21	2014-10-20
A.M.N.	ESH2-Z5	R&S	EC 3119	2014-1-9	2015-1-8
A.M.N.	ENV4200	R&S	EC3558	2013-8-11	2014-8-10
High Pass Filter	WHKX	Wainwright	EC4297-1	2014-1-9	2015-1-8
	1.0/15G-10SS				
High Pass Filter	WHKX	Wainwright	EC4297-2	2014-1-9	2015-1-8
	2.8/18G-12SS				
High Pass Filter	WHKX	Wainwright	EC4297-3	2014-1-9	2015-1-8
	7.0/1.8G-8SS				
Band Reject Filter	WRCGV	Wainwright	EC4297-4	2014-1-9	2015-1-8
	2400/2483-				
	2390/2493-				
	35/10SS				
Test Receiver	FSV40	R&S	/	2013-10-21	2014-10-20
Pre-amplifier	Pre-amp 18	R&S	EC 3222	2013-4-12	2014-4-11
Pre-amplifier	Tpa0118-40	R&S	EC 4792-2	2013-4-12	2014-4-11
Horn antenna	HF 906	R&S	EC 3049	2013-5-13	2015-5-12
Horn antenna	3117	ETS	EC 4792-1	2012-4-17	2014-4-16
Horn antenna	HAP18-26W		EC 4792-3	2012-4-10	2014-4-9
Bilog Antenna	CBL 6112D	TESEQ	EC 4206	2013-5-16	2015-5-15
Test Receiver	ESCS 30	R&S	EC 2107	2013-10-21	2014-10-20
Test Receiver	ESIB 26	R&S	EC 3045	2013-10-21	2014-10-20
Test Receiver	ESCI 7	R&S	EC4501	2013-12-13	2014-12-12

2.2 Test Standard

47CFR Part 15 (2013) ANSI C63.4: 2003



2.3 Test Summary

This report applies to tested sample only. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai.

TEST ITEM	FCC REFERANCE	RESULT
20 dB Bandwidth	15.247(a)(1)	Tested
Carrier Frequency Separation	15.247(a)(1)	Pass
Output power	15.247(b)(1)	Pass
Radiated Spurious Emissions	15.205 & 15.209	Pass
Conducted Spurious Emissions & Band Edge	15.247(d)	Pass
Power line conducted emission	15.207	NA
Number of Hopping Frequencies	15.247(a)(1)(iii)	Pass
Dwell time	15.247(a)(1)(iii)	Pass
Spurious emission for receiver	15B	NA

Note: "NA" means "not applied".





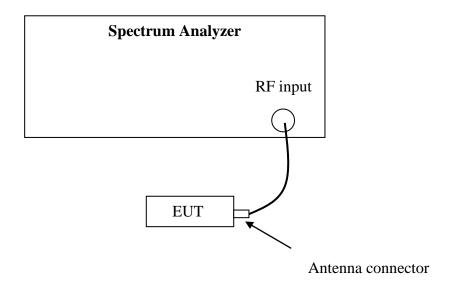
3. 20 dB Bandwidth

Test result: Tested

3.1 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
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 125mW.

3.2 Test Configuration



3.3 Test Procedure and test setup

The 20 bandwidth per FCC § 15.247(a)(1) is measured using the Spectrum Analyzer with Span = 2 to 3 times the 20 dB bandwidth, RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 3 channels (lowest, middle and highest channel).

The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)

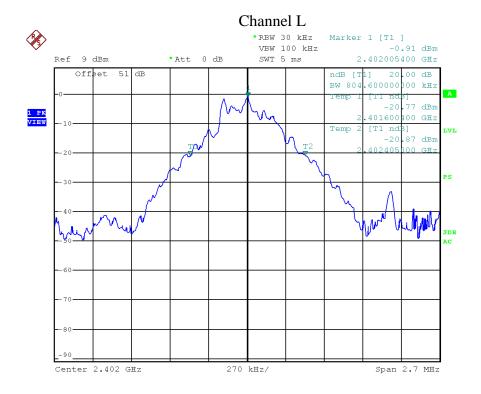


FCC ID: 2ABWPB3000

3.4 Test Protocol

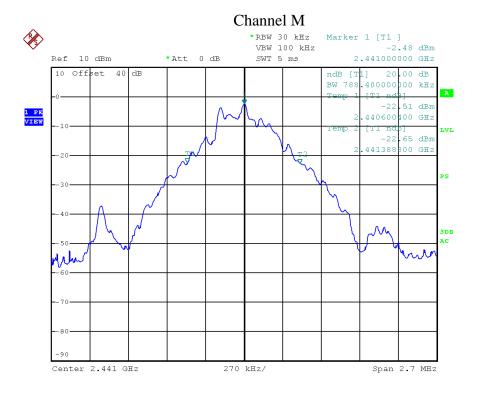
Temperature : 25°C Relative Humidity : 55 %

Mode	СН	20dB Bandwidth	Two-thirds of Bandwidth
		(kHz)	(kHz)
	L	804.60	536.4
GFSK	М	788.40	525.6
	Н	793.80	529.2

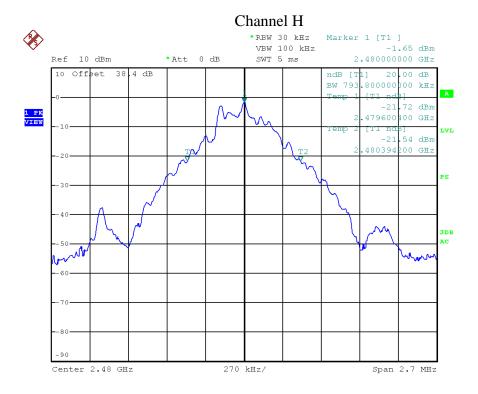


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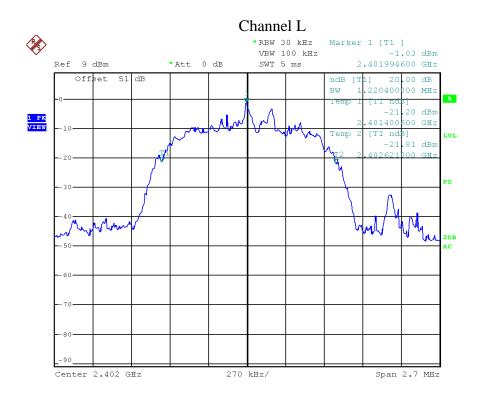
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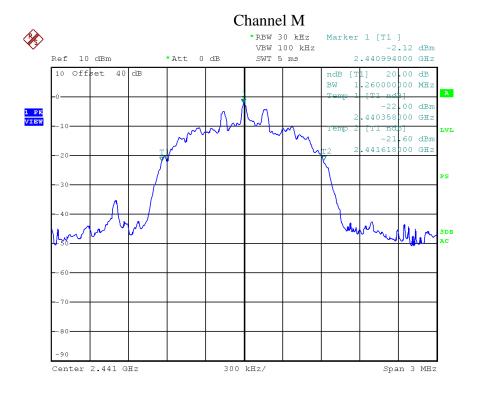


Mode	СН	20dB Bandwidth	Two-thirds of Bandwidth
		(kHz)	(kHz)
	L	1220	813.33
8DQPSK	М	1260	840.00
	Н	1264	842.67

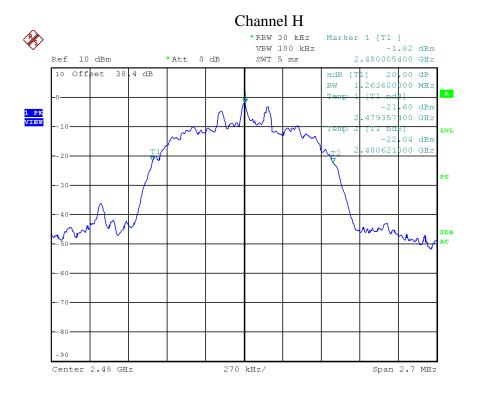


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Date: 17.APR.2013 16:48:37





4. Carrier Frequency Separation

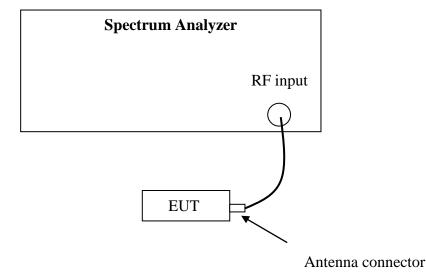
Test result: Pass

4.1 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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 125mW.

4.2 Test Configuration



4.3 Test Procedure and test setup

The Carrier Frequency Separation per FCC § 15.247(a)(1) is measured using the Spectrum Analyzer with Span can capture two adjacent channels, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 3 channels (lowest, middle and highest channel).

The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)



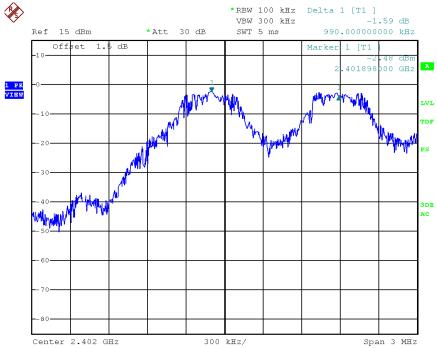


4.4 Test Protocol

Temperature : 22°C Relative Humidity : 55 %

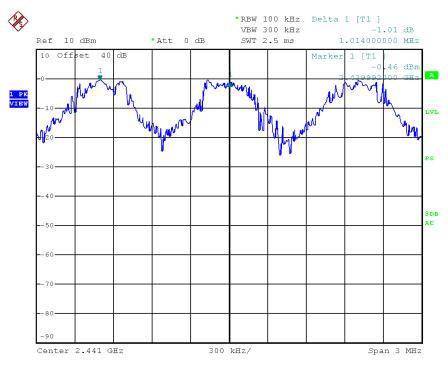
Mode	СН	Frequency Separation	Limit
		(kHz)	(kHz)
	L	990.00	≥536.4
GFSK	M	1014.00	≥525.6
	Н	1008.00	≥529.2

Channel L

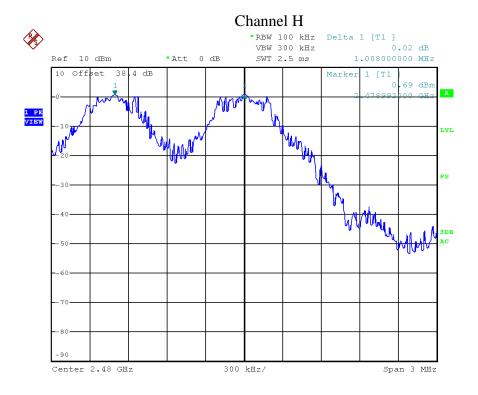








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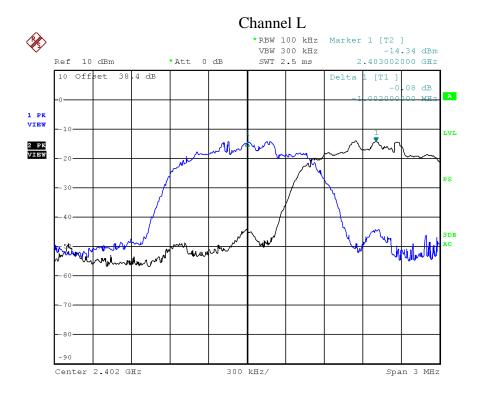


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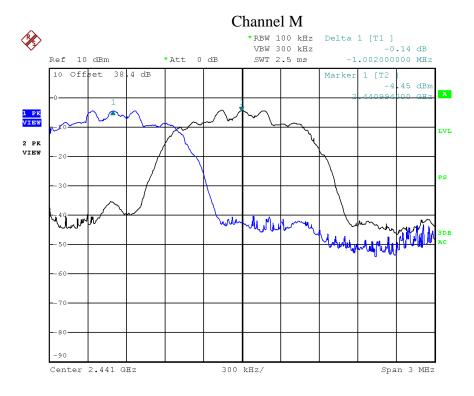


Mode	СН	Frequency Separation	Limit
		(kHz)	(kHz)
	L	1003.00	≥813.33
8DQPSK	М	1002.00	≥840.00
	Н	1014.00	≥842.67

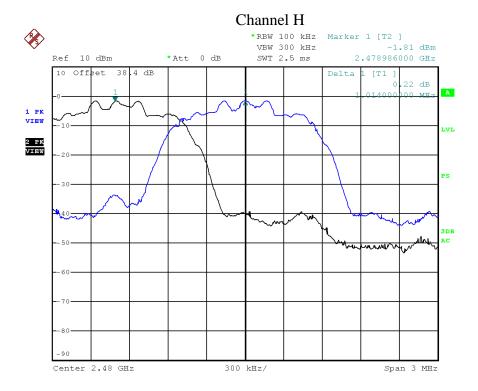


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Date: 17.APR.2013 16:57:24



Date: 17.APR.2013 16:55:12





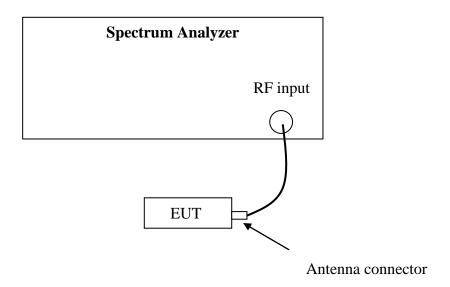
5. Maximum peak output power

Test result: Pass

5.1 Test limit

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
If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be
reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and
5725-5850 MHz bands: 1 Watt.

5.2 Test Configuration



5.3 Test procedure and test setup

The power output per FCC § 15.247(b) is measured using the Spectrum Analyzer with Span = 5 times the 20 dB bandwidth, RBW≥ the 20 dB bandwidth, VBW≥RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 3 channels (lowest, middle and highest channel). The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)

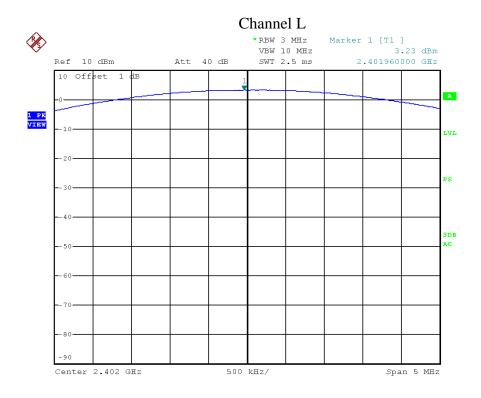


ntertek FCC ID: 2ABWPB3000

5.4 Test protocol

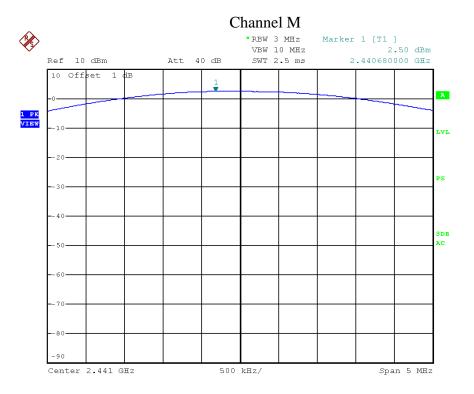
Temperature : 25 °C Relative Humidity : 55 %

Mode	СН	Cable loss (dB)	Corrected reading (dBm)	Limit (dBm)
	L	1.00	3.23	
GFSK	M	1.00	2.50	≤21.00
	Н	1.00	1.80	

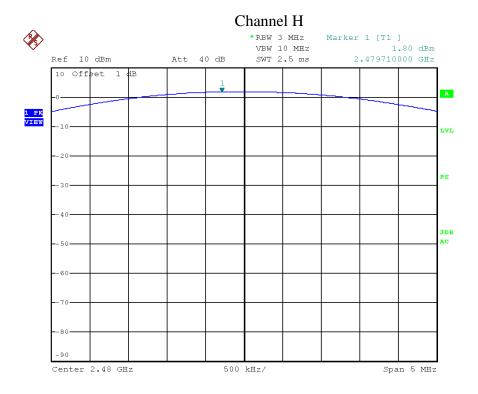


Date: 7.MAY.2013 17:16:00





Date: 7.MAY.2013 17:17:02

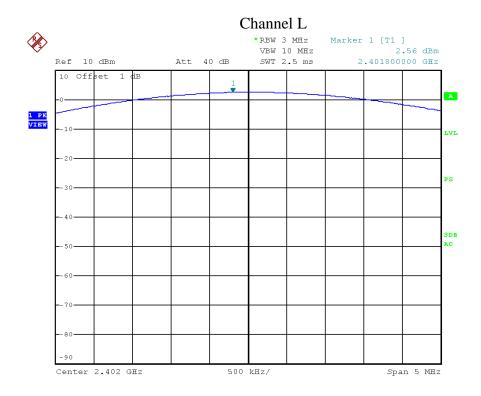


Date: 7.MAY.2013 17:17:27



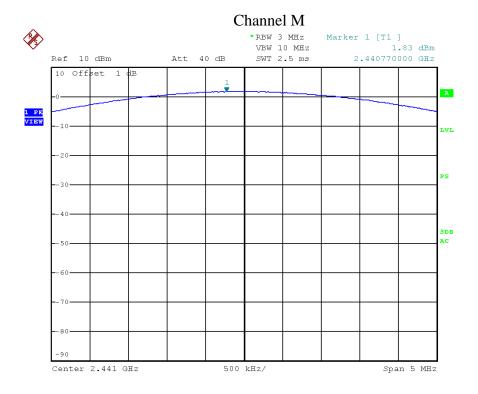
FCC ID: 2ABWPB3000

Mode	СН	Cable loss (dB)	Corrected reading (dBm)	Limit (dBm)
	L	1.00	2.56	
8DQPSK	M	1.00	1.83	≤21.00
	Н	1.00	0.88	

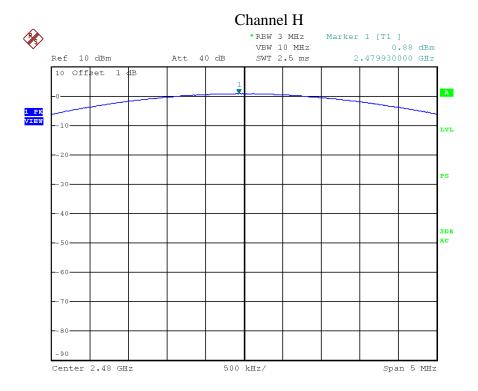


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Date: 7.MAY.2013 17:21:11



Date: 7.MAY.2013 17:21:38





6. Radiated Spurious Emissions

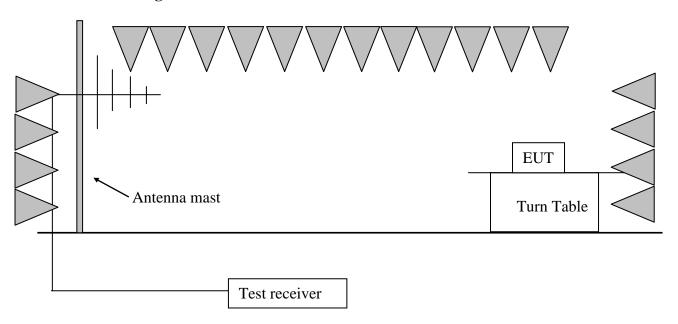
Test result: PASS

6.1 Test limit

The 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) showed as below:

Frequency (MHz)	Field Strength (dBuV/m)	Measurement Distance (m)
30 - 88	40.0	3
88 - 216	43.5	3
216 - 960	46.0	3
Above 960	54.0	3

6.2 Test Configuration





Intertek FCC ID: 2ABWPB3000

6.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

The EUT and simulators were placed on a 0.8m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

```
RBW = 100kHz, VBW = 300kHz (30MHz~1GHz)
RBW = 1MHz, VBW = 3MHz (>1GHz for PK);
RBW = 1MHz, VBW = 10Hz (>1GHz for AV);
```

If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor".



6.4 Test protocol

EUT was tested in three axes and the worst data was listed as below:

Mode GFSK

CH	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	V	2402.35	34.10	96.50	Fundamental	/	PK
	V	113.65	15.10	31.50	43.50	12.00	PK
	V	480.82	19.70	37.50	46.00	8.50	PK
	Н	1000.00	24.70	52.20	54.00	1.80	PK
L	V	2389.20	34.10	50.10	54.00	3.90	PK
L	Н	3196.40	-5.60	42.70	54.00	11.30	PK
	Н	4795.60	-0.80	56.20	74.00	17.80	PK
	Н	4804.00	-0.80	33.10	54.00	20.90	AV
	Н	8274.55	8.30	43.40	54.00	10.60	PK
	V	2441.20	34.30	97.00	Fundamental	/	PK
	V	113.65	15.10	31.50	43.50	12.00	PK
	V	480.82	19.70	37.50	46.00	8.50	PK
M	Н	1000.00	24.70	52.20	54.00	1.80	PK
	Н	3252.52	-5.40	43.60	54.00	10.40	PK
	Н	4879.78	-0.50	55.30	74.00	18.70	PK
	Н	4880.60	-0.50	32.60	54.00	21.40	AV
	Н	8484.92	8.50	42.70	54.00	11.30	PK
	V	2480.20	34.50	97.60	Fundamental	/	PK
	V	113.65	15.10	31.50	43.50	12.00	PK
	V	480.82	19.70	37.50	46.00	8.50	PK
	Н	1000.00	24.70	52.20	54.00	1.80	PK
Н	V	2485.85	34.50	50.10	54.00	3.90	PK
	Н	3294.60	-5.20	43.30	54.00	10.70	PK
	Н	4963.90	-0.20	55.80	74.00	18.20	PK
	Н	4960.40	-0.20	32.60	54.00	21.40	AV
	Н	8288.60	8.30	43.20	54.00	10.80	PK





Mode 8DQPSK

CH	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	V	2402.62	34.10	95.80	Fundamental	/	PK
	V	113.65	15.10	31.50	43.50	12.00	PK
	V	480.82	19.70	37.50	46.00	8.50	PK
	Н	1000.00	24.70	52.20	54.00	1.80	PK
L	V	2389.62	34.10	50.00	54.00	4.00	PK
	Н	3196.40	-5.60	42.50	54.00	11.50	PK
	Н	4798.50	-0.80	56.10	74.00	17.90	PK
	Н	4804.20	-0.80	32.90	54.00	21.10	AV
	Н	8274.58	8.30	43.50	54.00	10.50	PK
	V	2441.20	34.30	96.30	Fundamental	/	PK
	V	113.65	15.10	31.50	43.50	12.00	PK
	V	480.82	19.70	37.50	46.00	8.50	PK
M	Н	1000.00	24.70	52.20	54.00	1.80	PK
	Н	3252.20	-5.40	43.30	54.00	10.70	PK
	Н	4881.10	-0.50	55.50	74.00	18.50	PK
	Н	4880.30	-0.50	32.70	54.00	21.30	AV
	Н	8484.92	8.50	42.60	54.00	11.40	PK
	V	2479.88	34.50	97.00	Fundamental	/	PK
	V	113.65	15.10	31.50	43.50	12.00	PK
	V	480.82	19.70	37.50	46.00	8.50	PK
	Н	1000.00	24.70	52.20	54.00	1.80	PK
Н	V	2485.32	34.50	50.30	54.00	3.60	PK
	Н	3294.50	-5.20	43.40	54.00	10.60	PK
	Н	4962.15	-0.20	55.60	74.00	18.80	PK
	Н	4960.98	-0.20	32.70	54.00	21.30	AV
	Н	8288.30	8.30	43.40	54.00	10.60	PK





Remark: 1. For fundamental emission, no amplifier is employed.

- 2. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)
- 3. Corrected Reading = Original Receiver Reading + Correct Factor
- 4. Margin = limit Corrected Reading
- 5. If the PK reading is lower than AV limit, the AV test can be elided.
- 6. The emission was conducted from 30MHz to 25GHz.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,

Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV.

Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20dB/m; Corrected Reading =

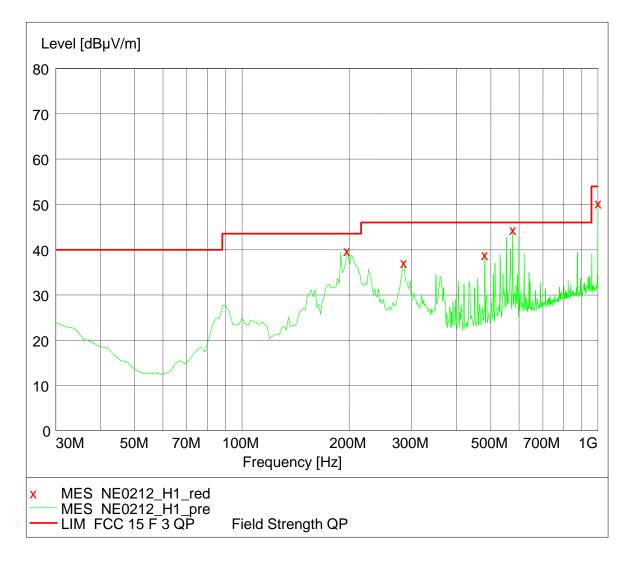
10dBuV + 0.20dB/m = 10.20dBuV/m

 $Assuming\ limit = 54 dBuV/m,\ Corrected\ Reading = 10.20 dBuV/m,\ then\ Margin = 10.20 dBuV/m,\ Assuming\ limit = 10.20 dBuV/m,\ Corrected\ Reading = 10.20 dBuV/m,\ Reading = 10.20 dBuV/m,\$

54 - 10.20 = 43.80 dBuV/m

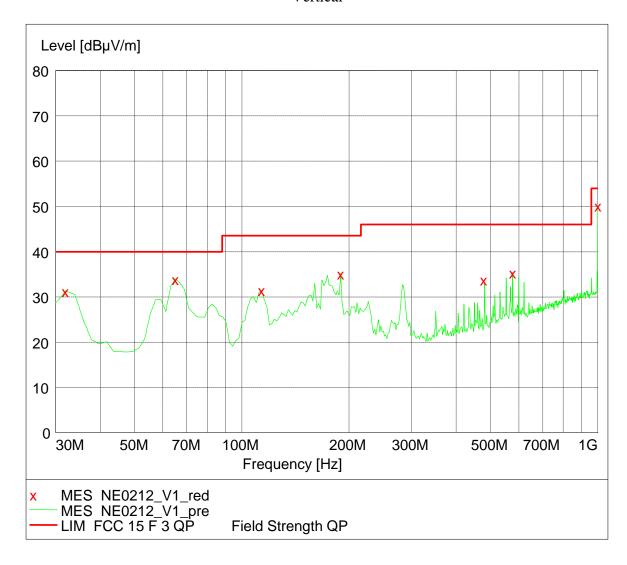


Horizontal





Vertical







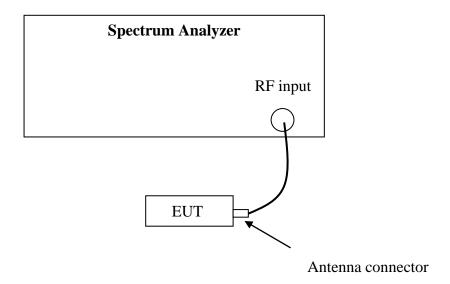
7. Conducted Spurious Emissions & Band Edge

Test result: PASS

7.1 Limit

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.

7.2 Test Configuration



7.3 Test procedure and test setup

The Conducted Spurious Emissions per FCC § 15.247(d) is measured using the Spectrum Analyzer with Span wide enough capturing all spurious from the lowest emission frequency of the EUT up to 10th harmonics, RBW = 100kHz, VBW≥RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 3 channels (lowest, middle and highest channel). The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)

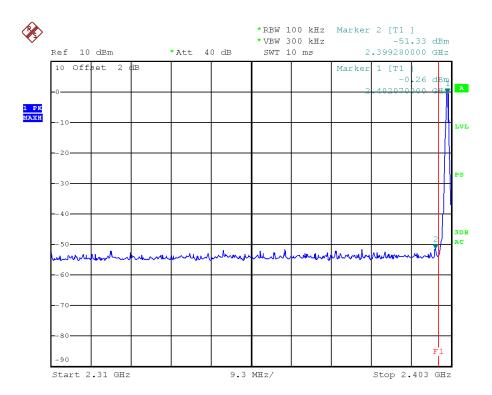


7.4 Test protocol

Model	СН	Max reading among band (dBm)	The most restrict Attenuation outside band (dB)	Limit (dB)
	L	-0.26	51.07	
GFSK	М	-0.45	50.98	≥20
	Н	-0.71	50.75	

Note: The test was performed from 9kHz to 26GHz and the worst data is listed here.

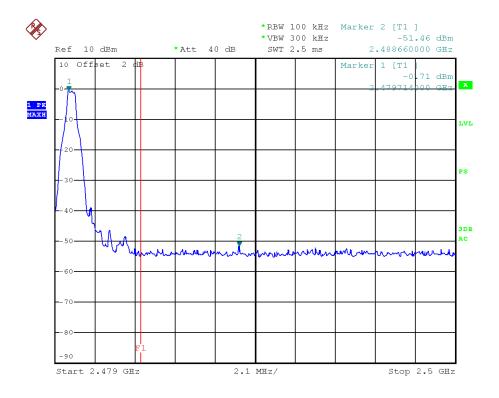
Channel L



Date: 11.MAR.2014 12:25:56



Channel H



Date: 11.MAR.2014 12:32:47

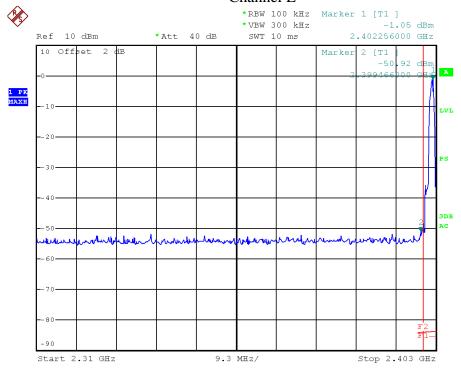
Model	СН	Max reading among band (dBm)	The most restrict Attenuation outside band (dB)	Limit (dB)
	L	-1.05	49.93	
8DQPSK	M	-1.00	49.95	≥20
	Н	-1.35	51.57	

Note: The test was performed from 9kHz to 26GHz and the worst data is listed here.

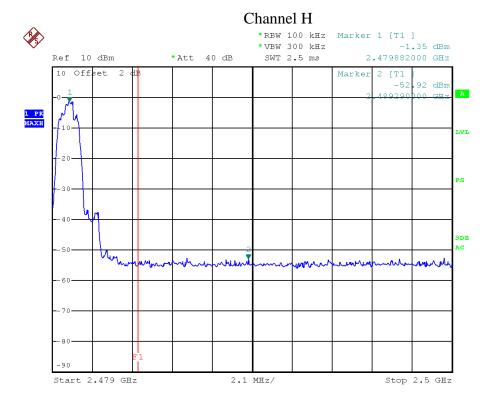




Channel L



Date: 11.MAR.2014 12:38:40



Date: 11.MAR.2014 12:42:06



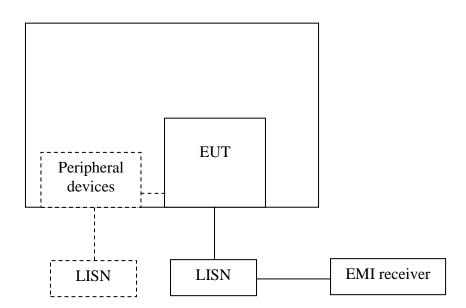
8. Power line conducted emission

Test result: Pass

8.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)			
	QP	AV		
0.15-0.5	66 to 56*	56 to 46 *		
0.5-5	56	46		
5-30	60	50		
* Decreases with the logarithm of the frequency.				

8.2 Test configuration



☑ For table top equipment, wooden support is 0.8m height table

For floor standing equipment, wooden support is 0.1m height rack.





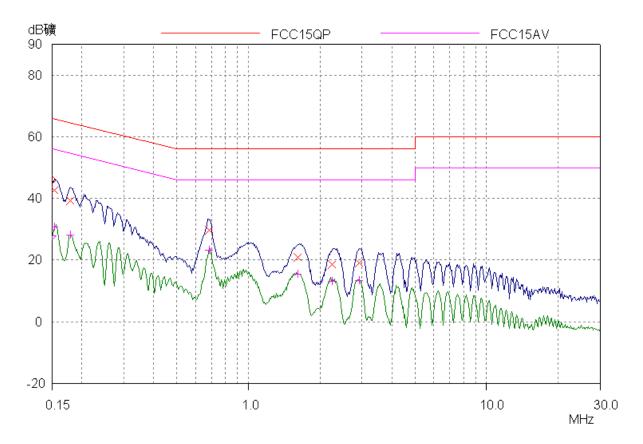
8.3 Test procedure and test set up

The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a $50\Omega/50uH$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\Omega/50uH$ coupling impedance with 50Ω termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement. The bandwidth of the test receiver is set at 9 kHz.



8.4 Test protocol



Frequency	Correct Factor	Corrected Reading (dBuV)		S		Margin (dB)	
	(dB)	QP	AV	QP	AV	QP	AV
0.15(L)	0.22	42.72	30.61	65.83	55.83	23.11	25.22
0.18(L)	0.24	39.31	28.22	64.54	54.54	25.23	26.32
0.68(L)	0.32	29.71	23.25	56.00	46.00	26.29	22.75
0.16(N)	0.22	42.93	30.54	65.67	55.67	22.74	25.13
0.18(N)	0.24	39.89	28.84	64.54	54.54	24.65	25.70
0.68(N)	0.32	26.69	20.92	56.00	46.00	29.31	25.08

Remark: 1. Correction Factor (dB) = LISN Factor (dB) + Cable Loss (dB). 2. Margin (dB) = Limit - Corrected Reading.





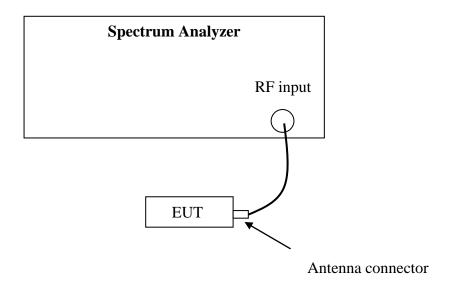
9. Number of Hopping Frequencies

Test result: Pass

9.1 Limit

Number of Hopping Frequencies in the 2400-2483.5 MHz band shall use at least 15 channels.

9.2 Test Configuration



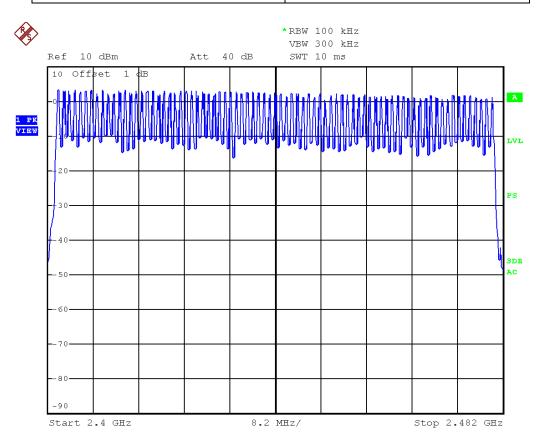
9.3 Test procedure and test setup

The channel number per FCC §15.247(a)(1)(iii) is measured using the Spectrum Analyzer with RBW=100kHz, VBW≥RBW, Sweep = auto, Detector = peak, Trace = max hold. The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems).



9.4 Test protocol

Channel Number	Limit
79	≥15



Date: 7.MAY.2013 17:26:46





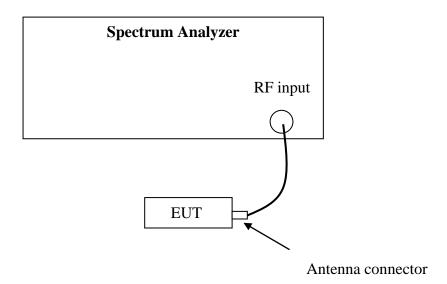
10. Dwell Time

Test result: Pass

10.1 Limit

The dwell time 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.2 Test Configuration



10.3 Test procedure and test setup

Dwell time per FCC § 15.247(a)(1)(iii) is measured using the Spectrum Analyzer with Span = 0, RBW=1MHz, VBW \geq RBW, Sweep can capture the entire dwell time, Detector = peak, Trace = max hold.

The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems).



FCC ID: 2ABWPB3000

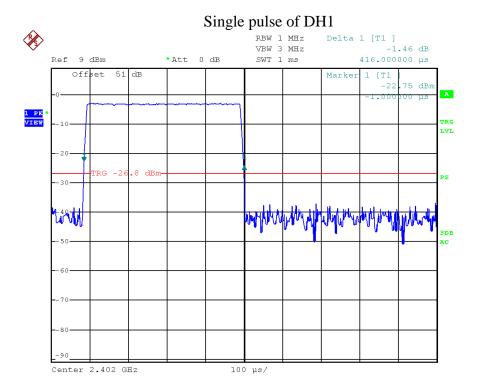
10.4 Test protocol

Packet	Occupancy time for single hop (ms)	СН	Real observed period (s)	Hops among Observed period	Dwell time (s) T	Limit (s)
	O		P	I		. ,
		L	3.16	32	0.13	
DH1	0.42	M	3.16	32	0.13	
		Н	3.16	32	0.13	
		L	3.16	16	0.27	
DH3	1.67	M	3.16	16	0.27	≤0.4
		Н	3.16	16	0.27	
		L	3.16	11	0.32	
DH5	2.94	M	3.16	11	0.32	
		Н	3.16	11	0.32	

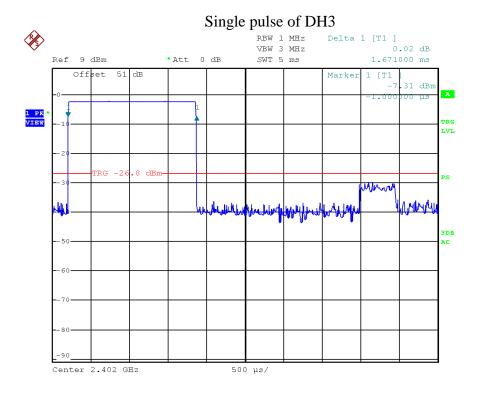
Remark: 1. There are 79 channels in all. So the complete observed period P = 0.4 * 79 = 31.6 s.

^{2.} Average time of occupancy T = O *I * 31.6 / P



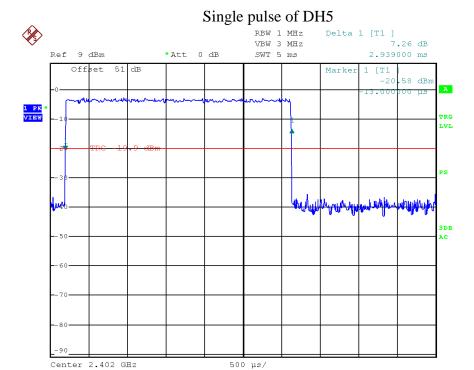


Date: 17.APR.2013 16:20:58



Date: 17.APR.2013 16:22:52





Date: 17.APR.2013 16:26:40





11. Spurious emission for receiver

Test result: NA

12.1 Test limit

The spurious emission shall test through 3 times tuneable or local oscillator frequency whichever is the higher, without exceeding 40 GHz.

If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2nW per any 4 kHz spurious frequency in the band 30-1000 MHz, or 5nW above 1 GHz.

If a radiated measurement is made, all spurious emissions shall comply with the limits of Table below:

Frequency (MHz)	Field Strength (dBuV/m)	Measurement Distance (m)
30 - 88	40.0	3
88 - 216	43.5	3
216 - 960	46.0	3
Above 960	54.0	3

12.2 Test Configuration

Please refer to clause 6.2

12.3 Test procedure and test setup

Please refer to clause 6.3.



12.4 Test protocol

Polarization	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)

- 2. Corrected Reading = Original Receiver Reading + Correct Factor
- 3. Margin = limit Corrected Reading

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,

Original Receiver Reading = 10dBuV.

Then Correct Factor = 30.20 + 2.00 = 32.20 dB/m; Corrected Reading = 10 dBuV + 32.20 dB/m = 42.20 dBuV/m

Assuming limit = 54dBuV/m, Corrected Reading = 42.20dBuV/m, then Margin = 54-42.20 = 11.80dBuV/m