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FCC ID TEST REPORT

Application No.:	STUGZEMO111013538RF1
Applicant:	South Surveying & Mapping Instrument Co., Ltd
Address	F1, No.52, Jian Zhong Rd, Tian He Software Park, Zhong Shan Avenue West, Guangzhou, China

Equipment Under Test (EUT):

EUT Name:	GNSS RECEIVER
Trade Mark:	SOUTH
Model No.:	S82-T
Serial No.:	Not supplied by client
FCC ID:	Z9PS82-T
Standards:	FCC PART 15C
Date of Receipt:	Nov.16, 2011
Date of Test:	Nov.16, 2011
Test Result :	PASS*

Tested By: David Li / Test Engineer.........

Reviewed By: Jimmy Yao / EMC Manager.........

VERIFICATION OF COMPLIANCE

Applicant:	South Surveying & Mapping Instrument Co., Ltd
Applicant Address:	F1, No.52, Jian Zhong Rd, Tian He Software Park, Zhong Shan Avenue West, Guangzhou, China
Manufacture:	South Surveying & Mapping Instrument Co., Ltd
Manufacture Address:	F1, No.52, Jian Zhong Rd, Tian He Software Park, Zhong Shan Avenue West, Guangzhou, China
EUT Name:	GNSS RECEIVER
Trade Mark:	SOUTH
Model No.:	S82-T
FCC ID:	Z9PS82-T
Report Number:	STUGZEMO111013538RF1
Date of Test:	Nov.05, 2011 to Nov.16, 2011

WE HEREBY CERTIFY THAT:

The above equipment was tested by STU Standard Technology Union Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT's name is Zenith, which is a short range, lower power equipment. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency:	2402 MHz to 2480 MHz
Output Power:	-6 dBm~4dBm
Modulation Type:	GFSK
Number of channels:	79
Antenna Designation:	Intergral Antenna
Channel Separation:	1MHz
Power Supply:	7.2-7.4VDC

1.2 TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

1.3 RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.
Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

1.4   EXAMPLE OF A HOPPING SEQUENCE IN DATA MODE

Example of a 79 hopping sequence in data mode:
40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67,56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59
72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75,09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06
01,51,03,55,05,04

1.5   EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:
1 LAP/UAP of the master of the connection
2 Internal master clock
The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is
an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of
the 48BD_ADDRESS
The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and
Is never turned off. For synchronisation with other units only offset are used. It has no relation to the time
Of the day. Its resolution is at least half the RX/TX slot length of 312.5us.The clock has a cycle of about
One day(23h30).In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence
the entire.
LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of   the clock(Input 2) are used. With this input values
different mathematical procedures(permutations, additions, XOR-operations)are performed to generate te
Sequence. This will be done at the beginning of every new transmission.
Regarding short transmissions the Bluetooth system has the following behaviour:
The first connection between the two devices is established, a hopping sequence was generated. For
Transmitting the wanted data the complete hopping sequence was not used. The connection ended.
The second connection will be established. A new hopping sequence is generated. Due to the fact the
Bluetooth clock has a different value, because the period between the two transmission is longer(and it
Cannot be shorter)than the minimum resolution of the clock(312.5us).The hopping sequence will always
Differ from the first one.

1.6   RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: Z9PS82-T** filing to comply with Section 15.247 of the FCC
Part 15, Subpart C Rules.

1.7   TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003).
Radiated testing was performed at an antenna to EUT distance 3 meters.

1.8   TEST FACILITY

All measurement facilities used to collect the measurement data are located at
Guangdong Electronic & Electrical Products Inspection and Supervision Institute（CGEL）
45 Cunnan Street, Shayongnan, Sanyuanli District, Guangzhou, Guangdong, China
The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.
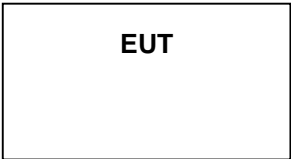FCC register No.: 597719

1.9   SPECIAL ACCESSORIES
Not available for this EUT intended for grant.

1.10   EQUIPMENT MODIFICATIONS
Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 CONFIGURATION OF TESTED SYSTEM

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┌─────────────────────┐
│                     │
│        EUT          │
│                     │
│                     │
└─────────────────────┘
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2.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID
1	GNSS RECEIVER	SOUTH	S82-T	Z9PS82-T

3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Maximum Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Band Edges	Compliant
§15.247	Spurious Emission	Compliant
§15.247	Frequency Separation	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant

4. DESCRIPTION OF TEST MODES

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency individually.
2. The EUT stays in continuous transmitting mode on the operation frequency being set.

5. MAXIMUM OUTPUT POWER

### 5.1 MEASUREMENT PROCEDURE

CONDUCTED METHOD
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Centre Frequency = Operation Frequency, RBW= 3 MHz,
    VBW= 3 MHz.
5. Set SPA Trace 1 Max hold, then View.

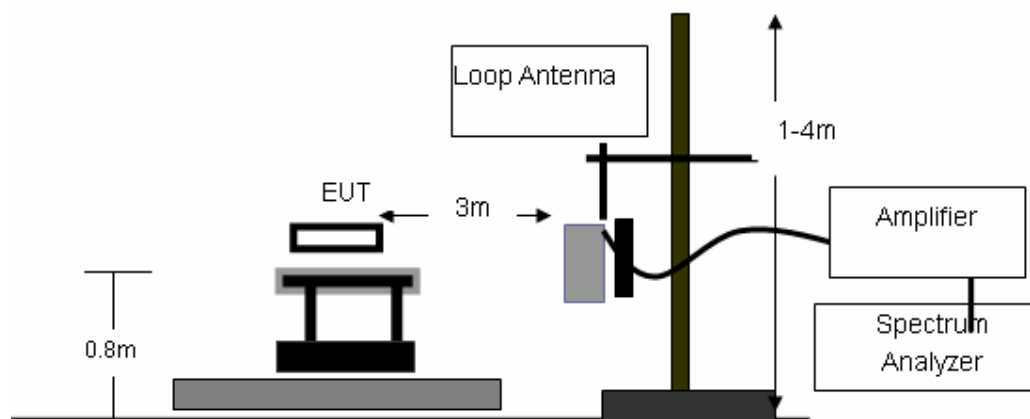RADIATED METHOD
According to ANSI C63.4:2003

5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)
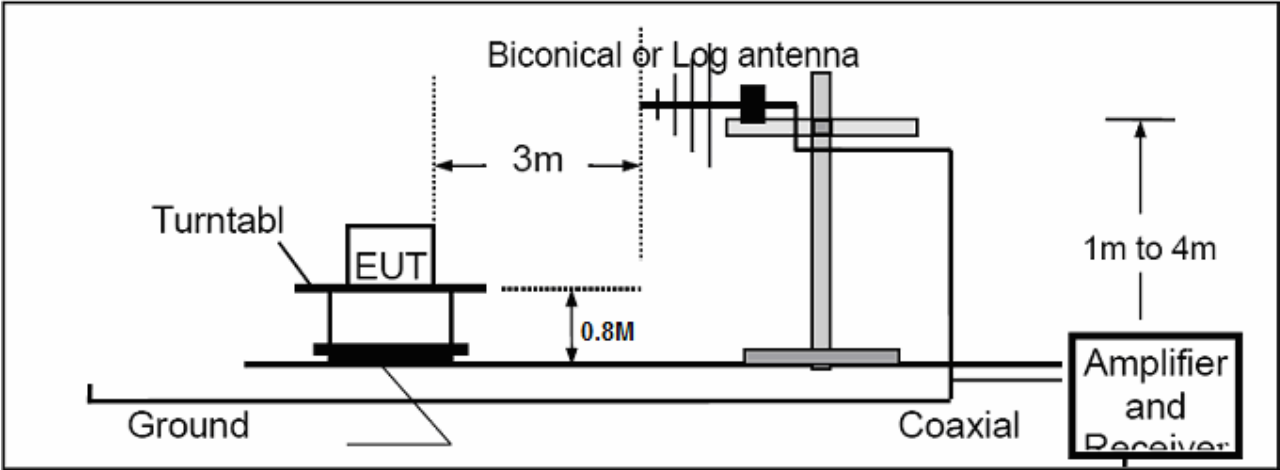
CONDUCTED METHOD
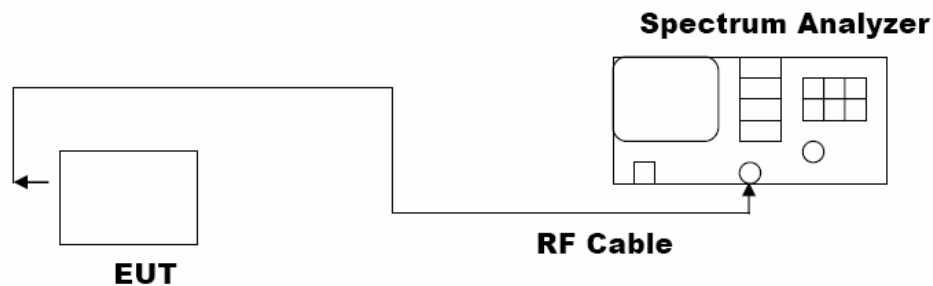
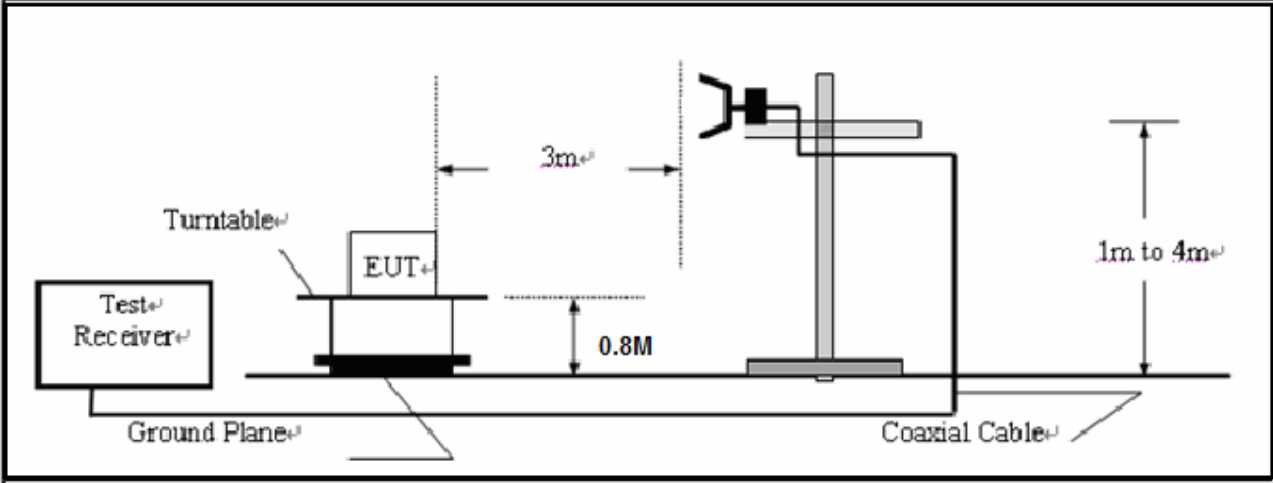**RADIATED EMISSION TEST SETUP**

RADIATED EMISSION TEST SETUP BELOW 30MHz
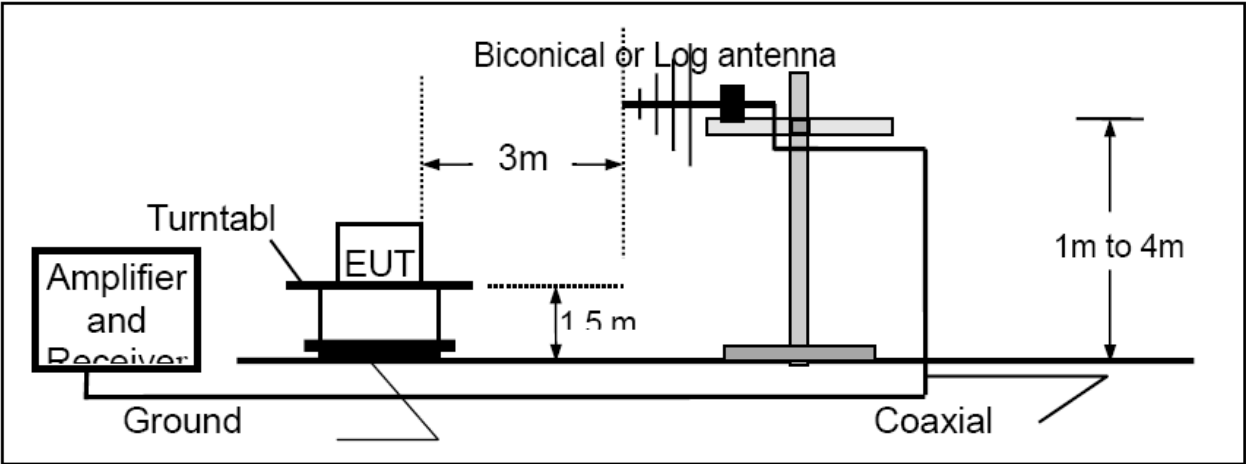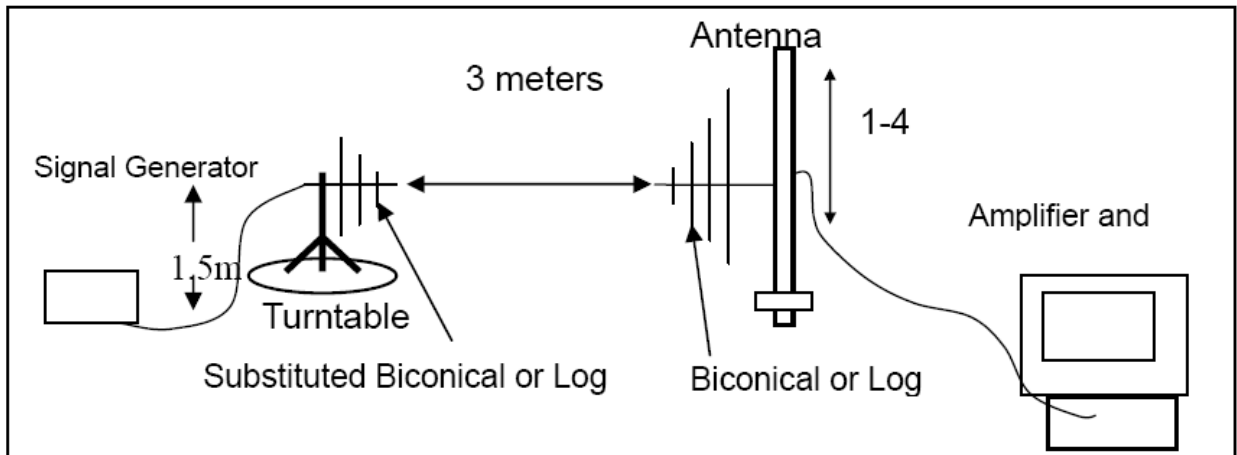
RADIATED MISSION TEST SETUP 30MHz-1000MHz
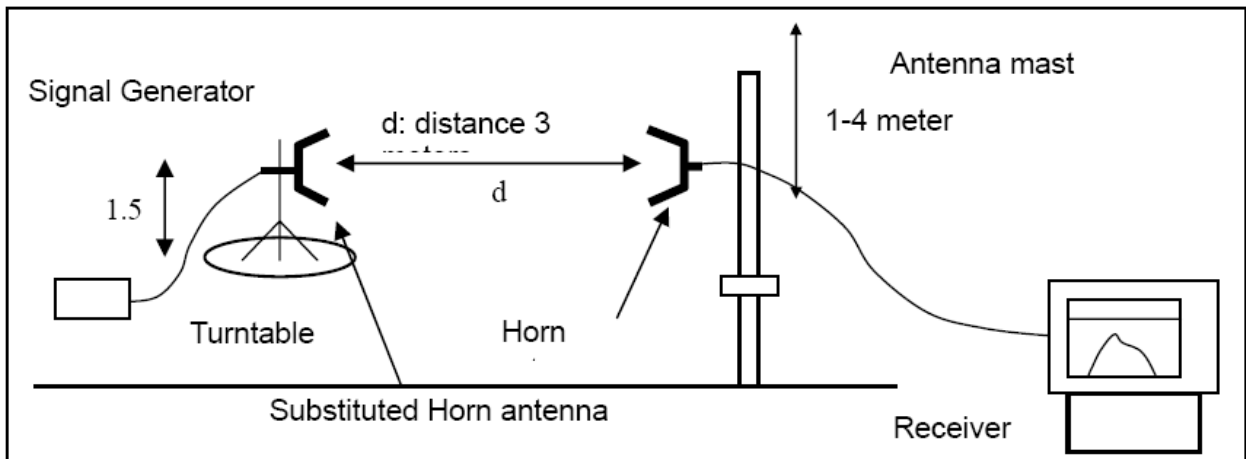

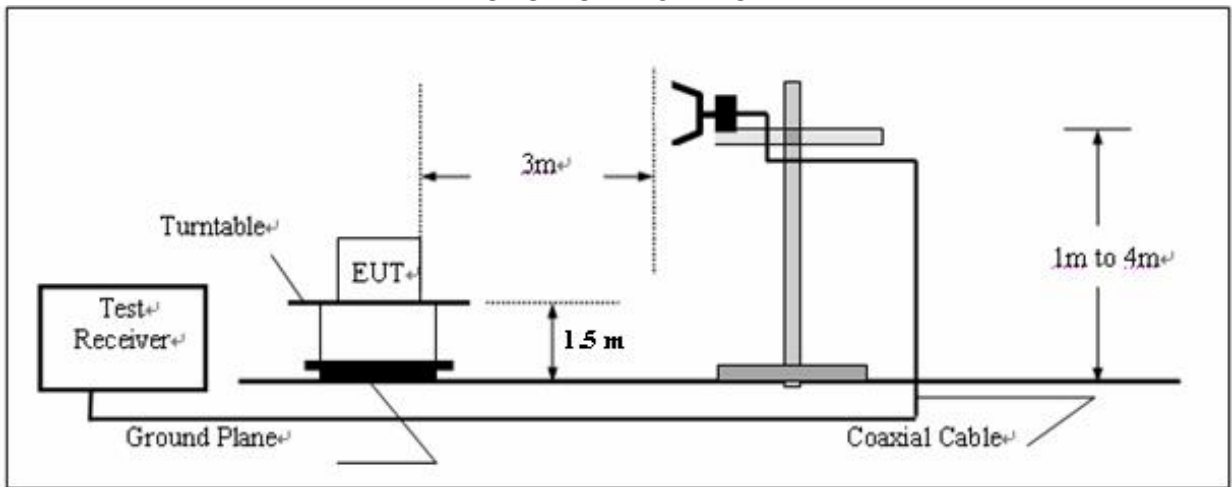RADIATED MISSION TEST SETUP ABOVE 1000MHz

EIRP TEST SETUP

TEST SETUP BELOW 1GHZ

TEST SETUP ABOVE 1GHZ

5.3 MEASUREMENT EQUIPMENT USED

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2011	06/28/2012
Amplifier	EM	EM30180	0607030	06/29/2011	06/28/2012
Horn Antenna	EM	EM-AH-10180	N/A	06/29/2011	06/28/2012
EMI Test Receiver	Rohde & Schwarz	ESCI	N/A	06/29/2011	06/28/2012
Amplifier	EM	EM30180	N/A	06/29/2011	06/28/2012
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	06/29/2011	06/28/2012
Loop Antenna	Daze	ZN30900N	SEL0097	06/29/2011	06/28/2012
Isolation Transformer	LETEAC	LTBK	--	06/29/2011	06/28/2012

5.4 LIMITS AND MEASUREMENT RESULT

Applicable Limits	Frequency	Measurement Result		
		EIRP (dBm)	Conducted (dBm)	Criteria
30 dBm	2.402GHz	0.07	0.10	PASS
30 dBm	2.441GHz	0.02	0.08	PASS
30 dBm	2.480GHz	0.06	0.05	PASS

6. 20 DB BANDWIDTH

6.1 MEASUREMENT PROCEDURE
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz,
   VBW= 100 KHz.
4. Set SPA Trace 1 Max hold, then View.

6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)
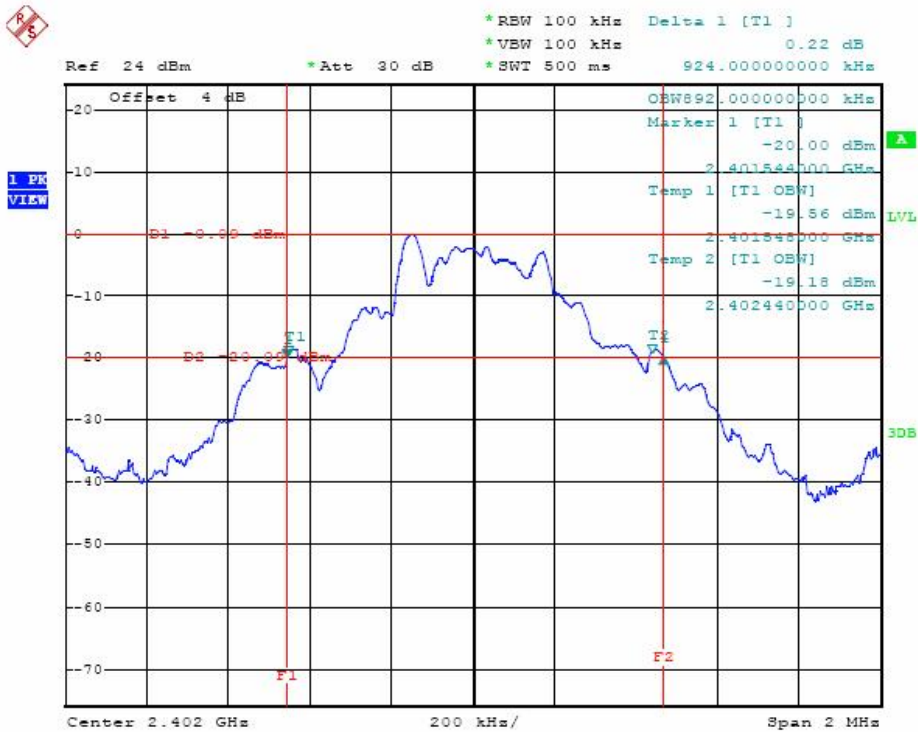The Same as described in Section 5.2

6.3 MEASUREMENT EQUIPMENT USED
The same as described in Section 5.3

6.4 LIMITS AND MEASUREMENT RESULTS

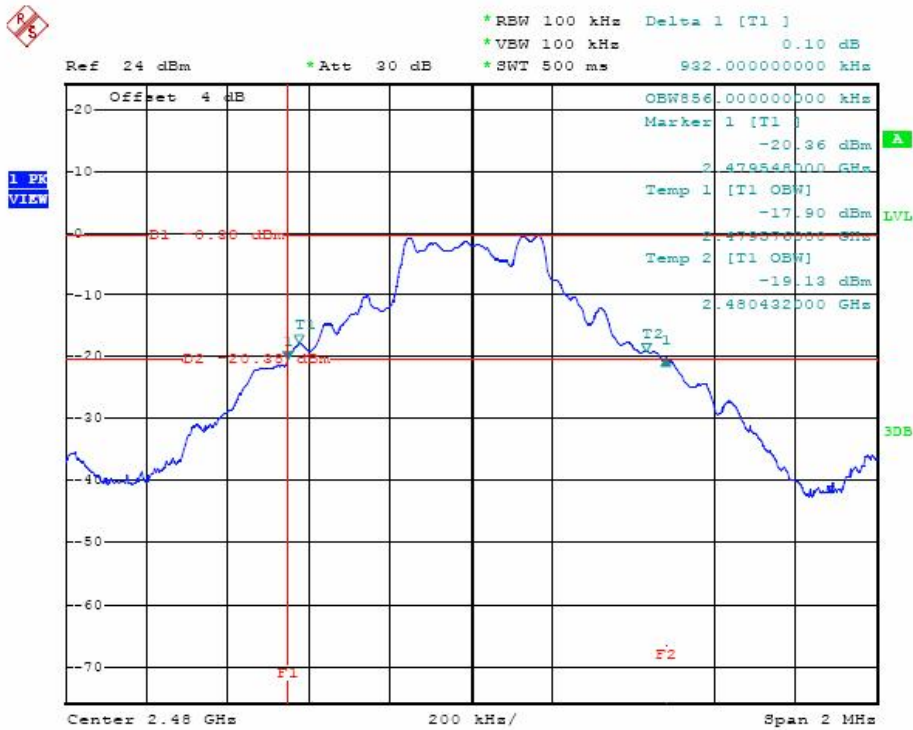| Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
--	Low Channel	0.924	PASS
	Middle Channel	0.984	PASS
	High Channel	0.932	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL
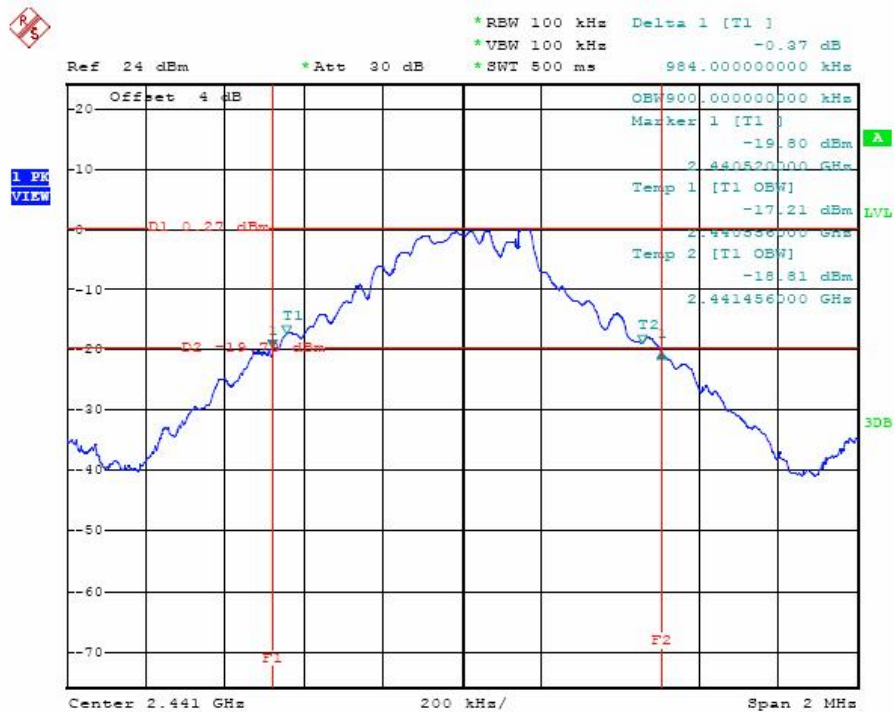
## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

7. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY (N/A)

7.1 MEASUREMENT PROCEDURE
(1). The EUT was placed on a turn table which is 0.8m above ground plane.
(2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
(3), Set the EUT Work on the top, the middle and the bottom operation frequency individually.
(4). Set SPA Centre Frequency = Operation Frequency, RBW= 3 KHz,
   VBW= 10 KHz., Sweep time= Auto
(5). Set SPA Trace 1 Max hold, then View.

7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)
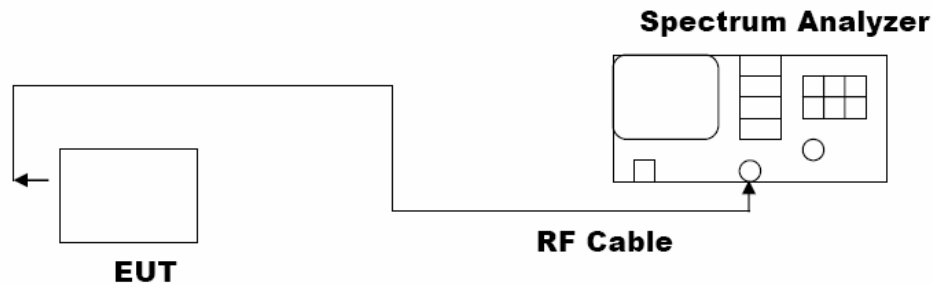
7.3 MEASUREMENT EQUIPMENT USED

SHIELDING ROOM					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2011	06/28/2012

7.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data (dBm/3KHz)	Criteria
8 dBm / 3KHz	Low Channel	--	--
	Middle Channel	--	--
	High Channel	--	--

8. OUT OF BAND EMISSION
8.1 MEASUREMENT PROCEDURE
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz,
   VBW= 100 KHz.
4. Set SPA Trace 1 Max hold, then View.

8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)
The Same as described in section 5.2
1. Conducted test setup
2. Radiated Emission test Setup below 1GHz and Above 1GHz

8.3 MEASUREMENT EQUIPMENT USED
The Same as described in section 5.3

8.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
In addition, radiation 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))	At least -20dBc than the limit Specified on the TOP Channel	PASS

TEST RESULT OF RADIATED EMISSION TEST (9KHz ~30MHz)

Operation Mode: RF Mode

| Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 20 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

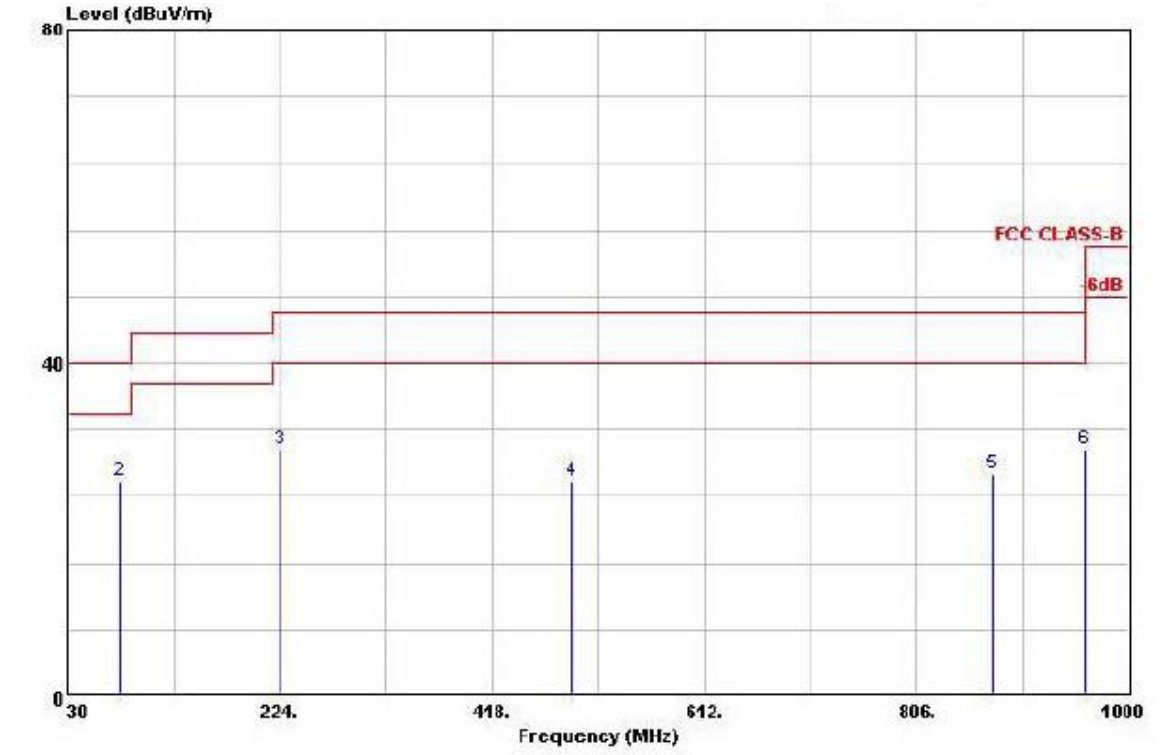**TEST RESULT OF RADIATED EMISSION TEST (30MHZ-1GHZ)**

Horizontal
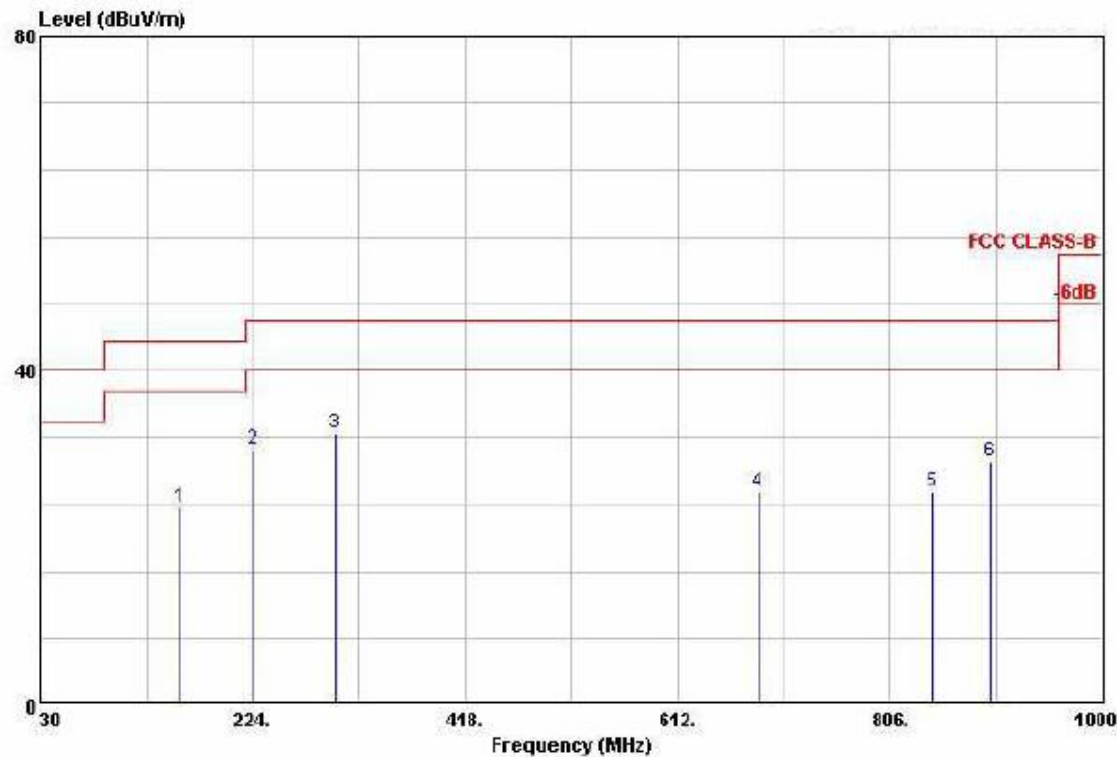
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	158.250	23.58	-19.92	43.50	40.35	9.51	1.68	27.97	---	---	Peak
2	224.940	30.55	-15.45	46.00	45.69	10.65	1.97	27.75	---	---	Peak
3	299.460	32.56	-13.44	46.00	45.61	12.31	2.24	27.60	100	157	Peak
4	685.700	25.49	-20.51	46.00	31.01	20.11	3.48	29.10	---	---	Peak
5	845.300	25.51	-20.49	46.00	29.00	21.52	3.84	28.85	---	---	Peak
6	897.800	29.15	-16.85	46.00	30.56	23.44	3.95	28.80	---	---	Peak

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.000	22.92	-17.08	40.00	33.92	16.38	0.87	28.25	---	---	Peak
2	77.250	25.78	-14.22	40.00	46.11	6.67	1.25	28.25	100	241	Peak
3	225.210	29.54	-16.46	46.00	44.68	10.65	1.97	27.75	---	---	Peak
4	491.800	25.79	-20.21	46.00	35.13	16.81	2.79	28.94	---	---	Peak
5	875.400	26.65	-19.35	46.00	28.94	22.62	3.92	28.82	---	---	Peak
6	959.400	29.61	-16.39	46.00	29.29	25.01	3.99	28.68	---	---	Peak

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
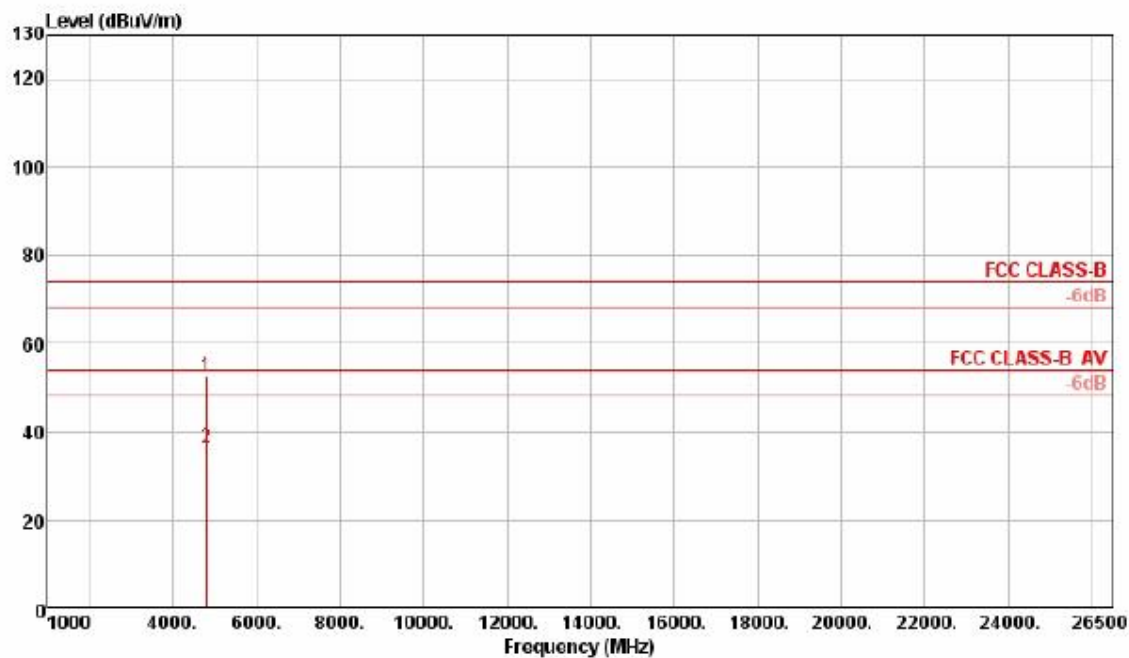
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

TEST RESULT OF RADIATED EMISSION TEST (1GHZ-10TH HARMONIC)
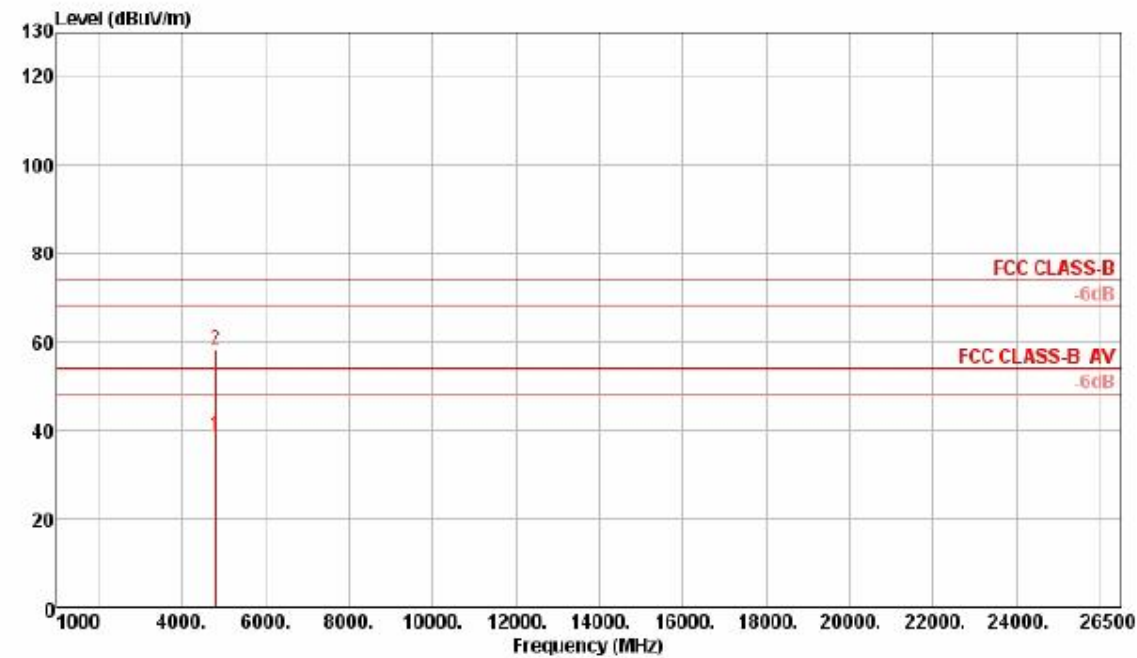
channel 00

		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	p	4804.00	52.58	74.00	-21.42	50.64	3.96	33.02	35.04	113	197	Peak	HORIZONTAL
2	a	4804.04	36.21	54.00	-17.79	34.27	3.96	33.02	35.04	113	197	Average	HORIZONTAL

Vertical

		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	a	4803.98	38.87	54.00	-15.13	36.93	3.96	33.02	35.04	83	153	Average	VERTICAL
2	p	4804.04	58.29	74.00	-15.71	56.35	3.96	33.02	35.04	83	153	Peak	VERTICAL

channel 39

Horizontal
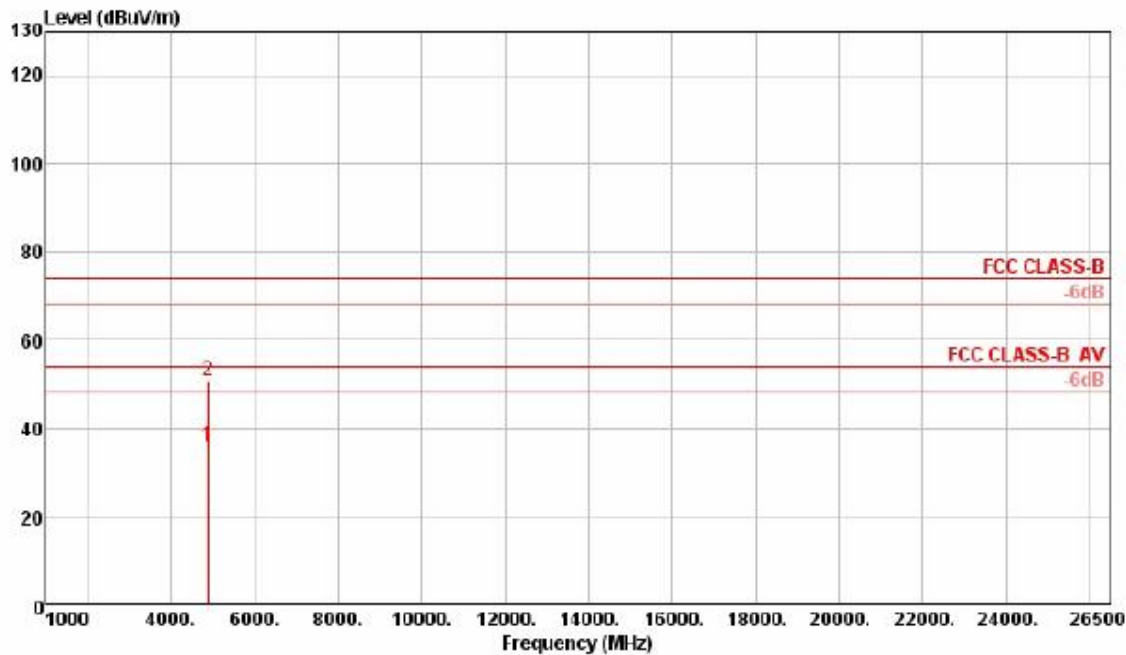
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1 a	4882.05	35.79	54.00	-18.21	33.69	3.97	33.16	35.03	302	176	Average	HORIZONTAL
2 p	4882.23	50.58	74.00	-23.42	48.48	3.97	33.16	35.03	302	176	Peak	HORIZONTAL

Vertical
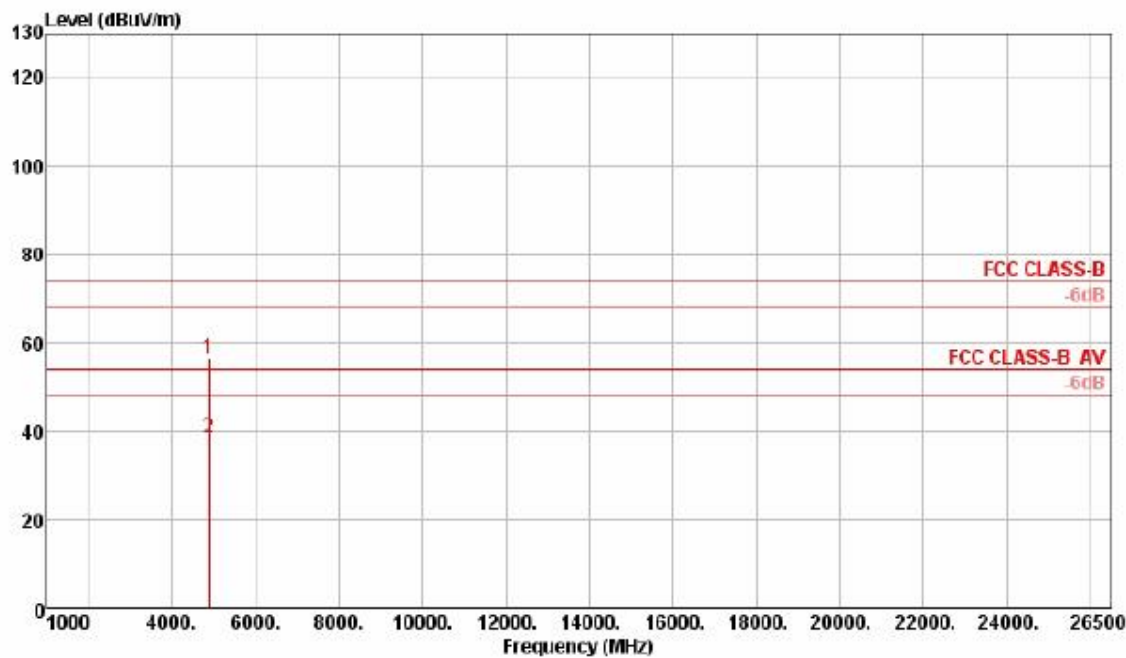
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1 p	4881.96	56.49	74.00	-17.51	54.39	3.97	33.16	35.03	83	100	Peak	VERTICAL
2 a	4882.01	38.31	54.00	-15.69	36.21	3.97	33.16	35.03	83	100	Average	VERTICAL

channel 78

Horizontal
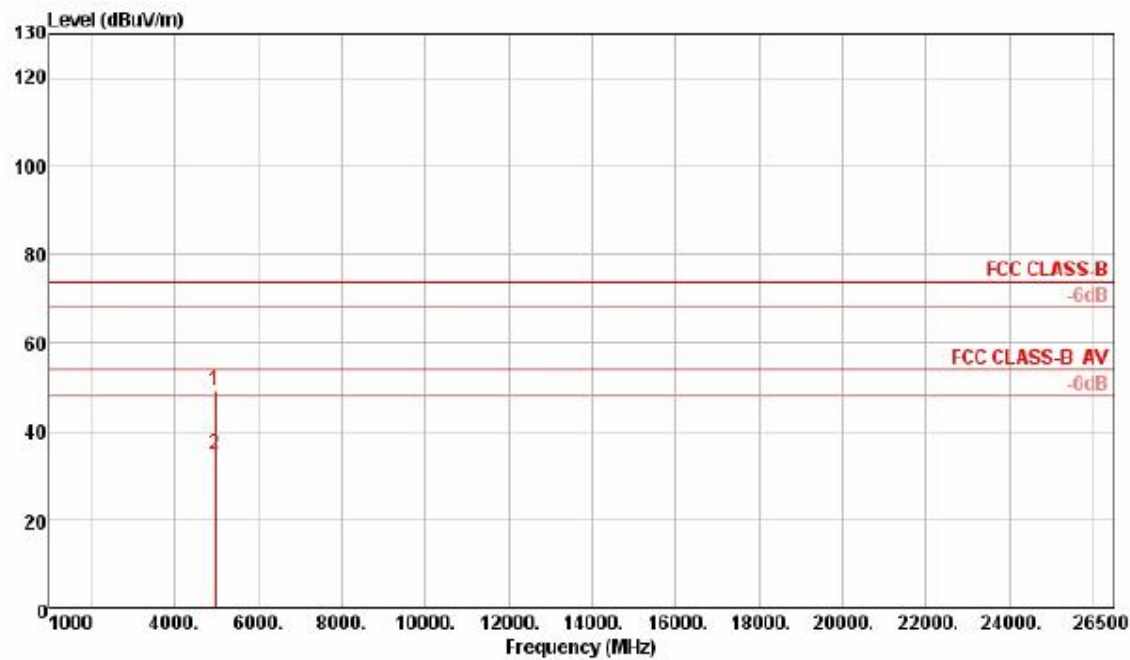
		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	p	4959.74	49.31	74.00	-24.69	47.00	3.99	33.33	35.01	203	100	Peak	HORIZONTAL
2	a	4960.05	34.89	54.00	-19.11	32.58	3.99	33.33	35.01	203	100	Average	HORIZONTAL
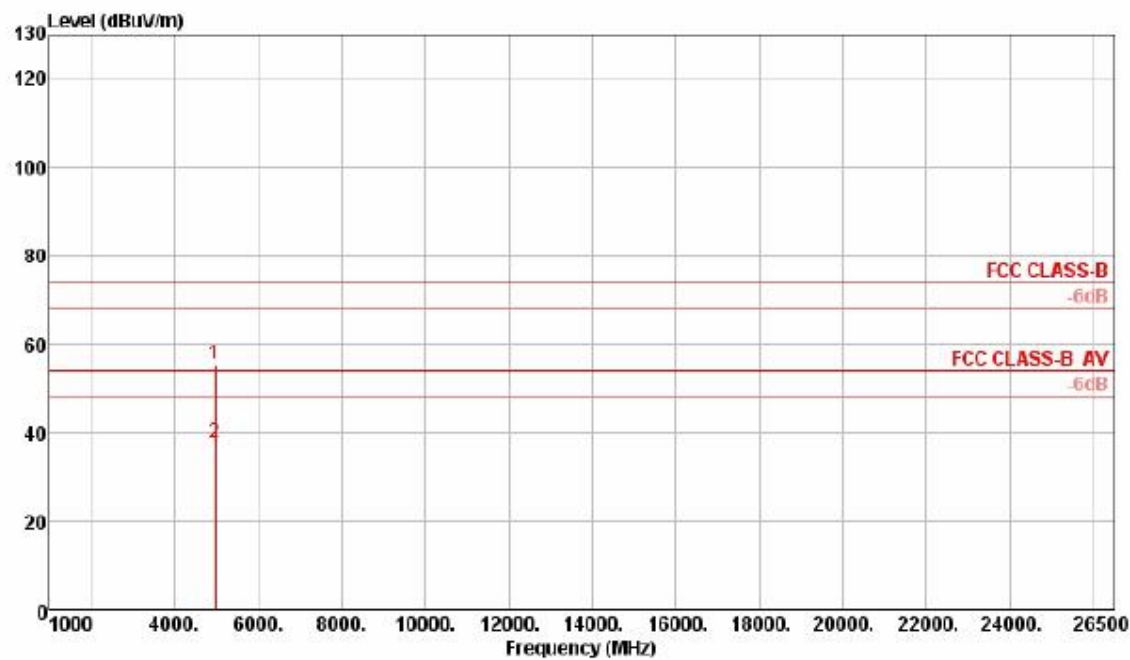
Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1 p	4959.93	55.40	74.00	-18.60	53.09	3.99	33.33	35.01	43	188	Peak	VERTICAL
2 a	4960.05	37.50	54.00	-16.50	35.19	3.99	33.33	35.01	43	188	Average	VERTICAL

9. BAND EDGE EMISSION
9.1 MEASUREMENT PROCEDURE

1, Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency = Operation Frequency, RBW= 1MHz,
   VBW= 1MHz.
3. The band edges was measured and recorded.

9.2 TEST SET-UP
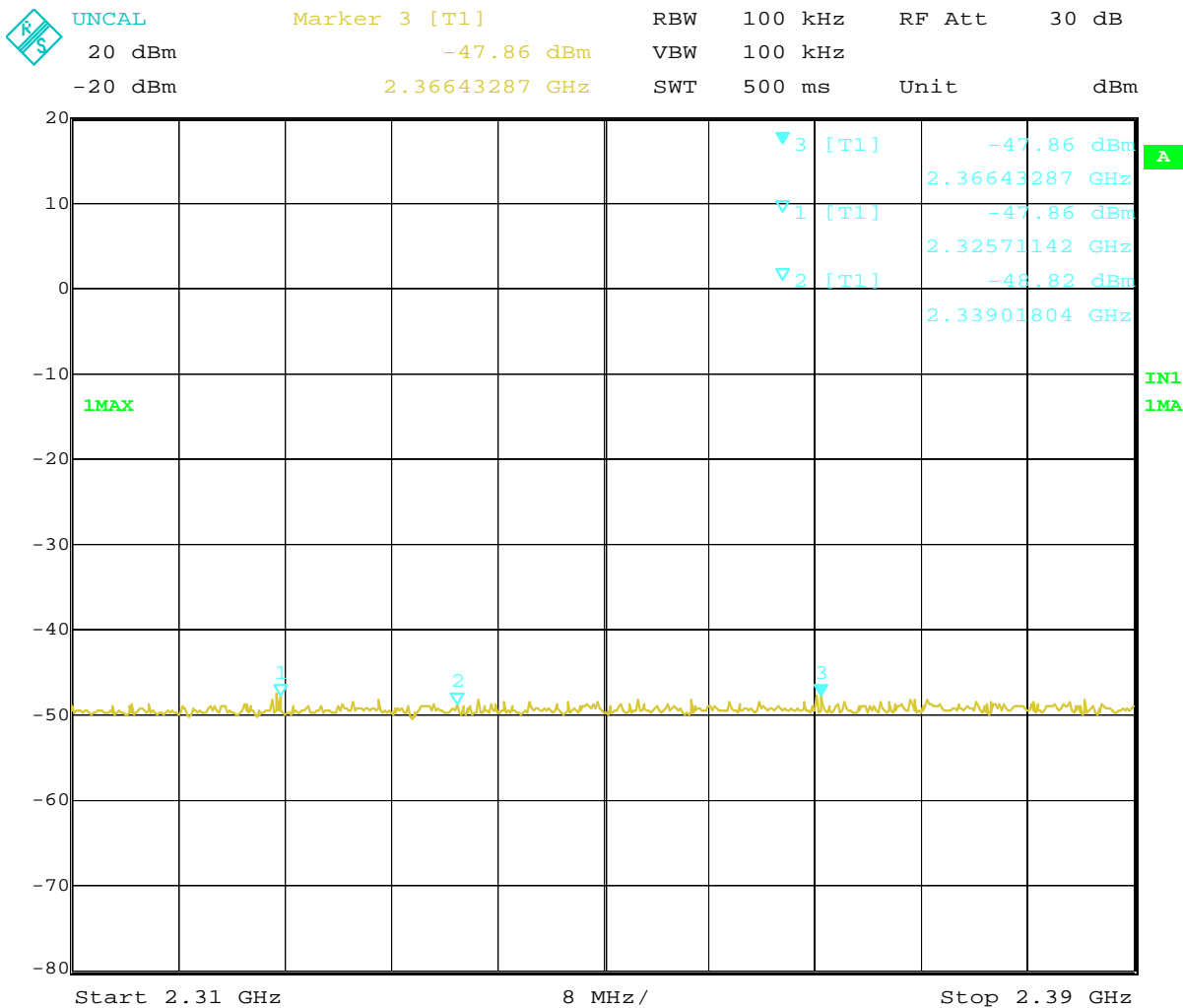The Same as described in section 5.2

9.3 TEST RESULT

TEST PLOT OF BAND ELDG FOR BOTTOM CHANNEL (2.402GHz)
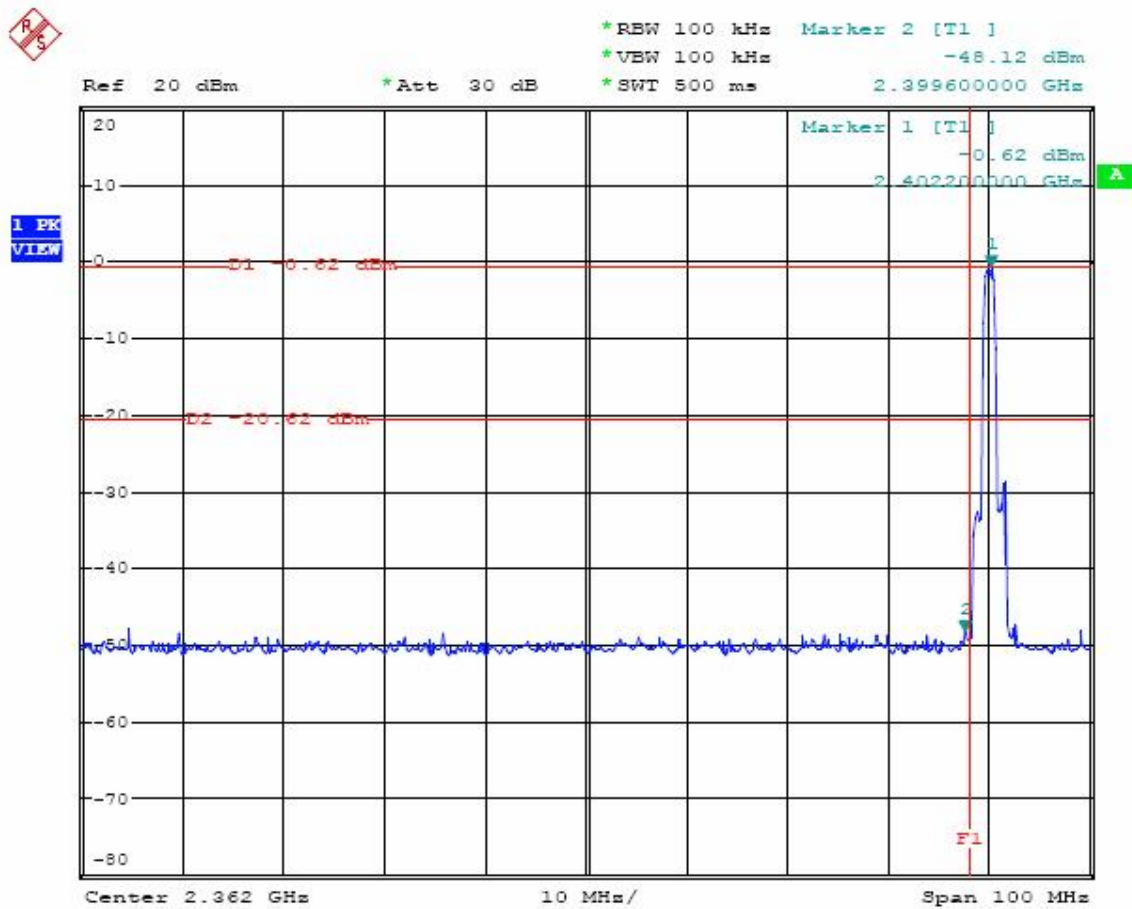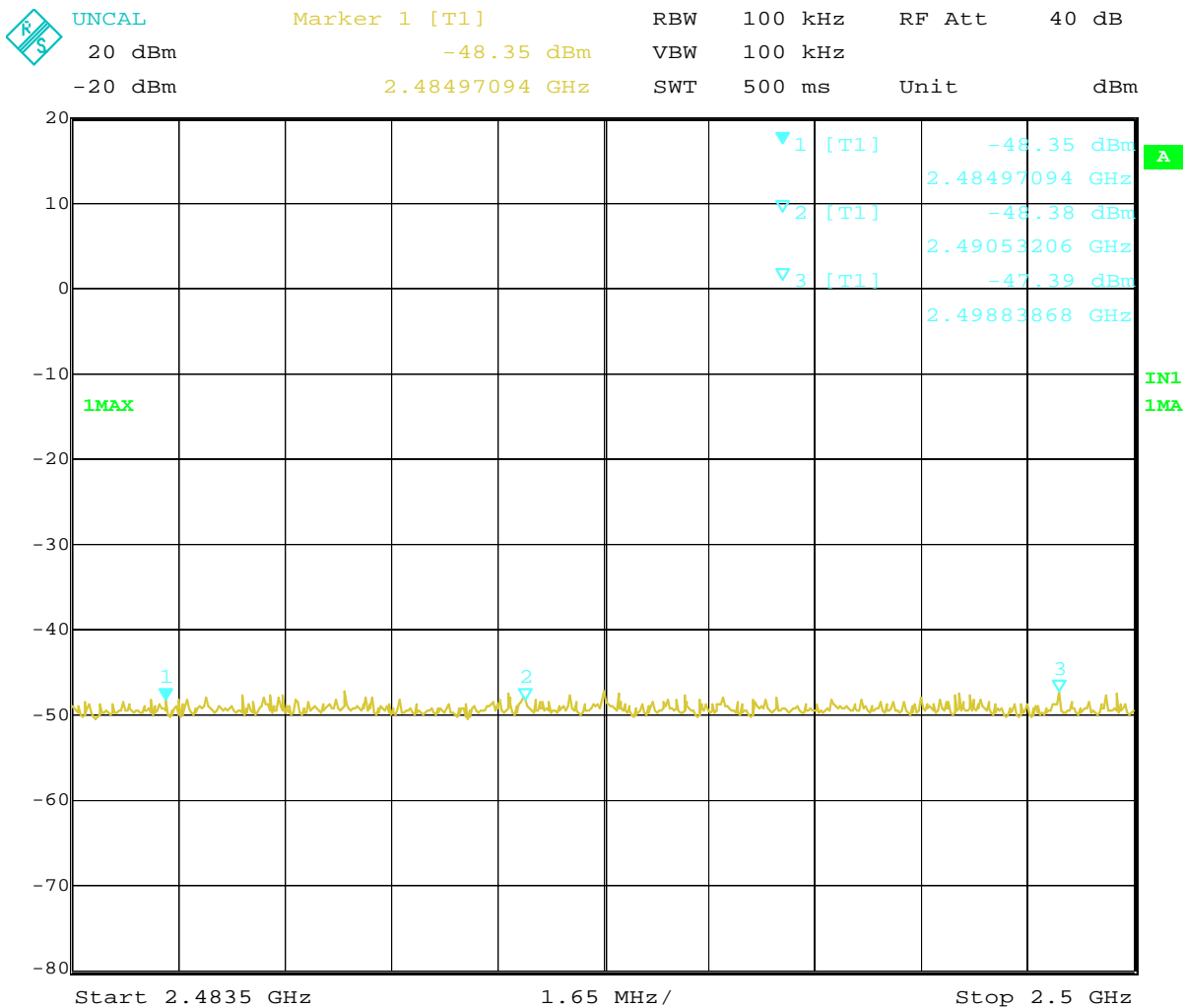
TEST PLOT OF BAND ELDG FOR TOP CHANNEL (2.480GHz)
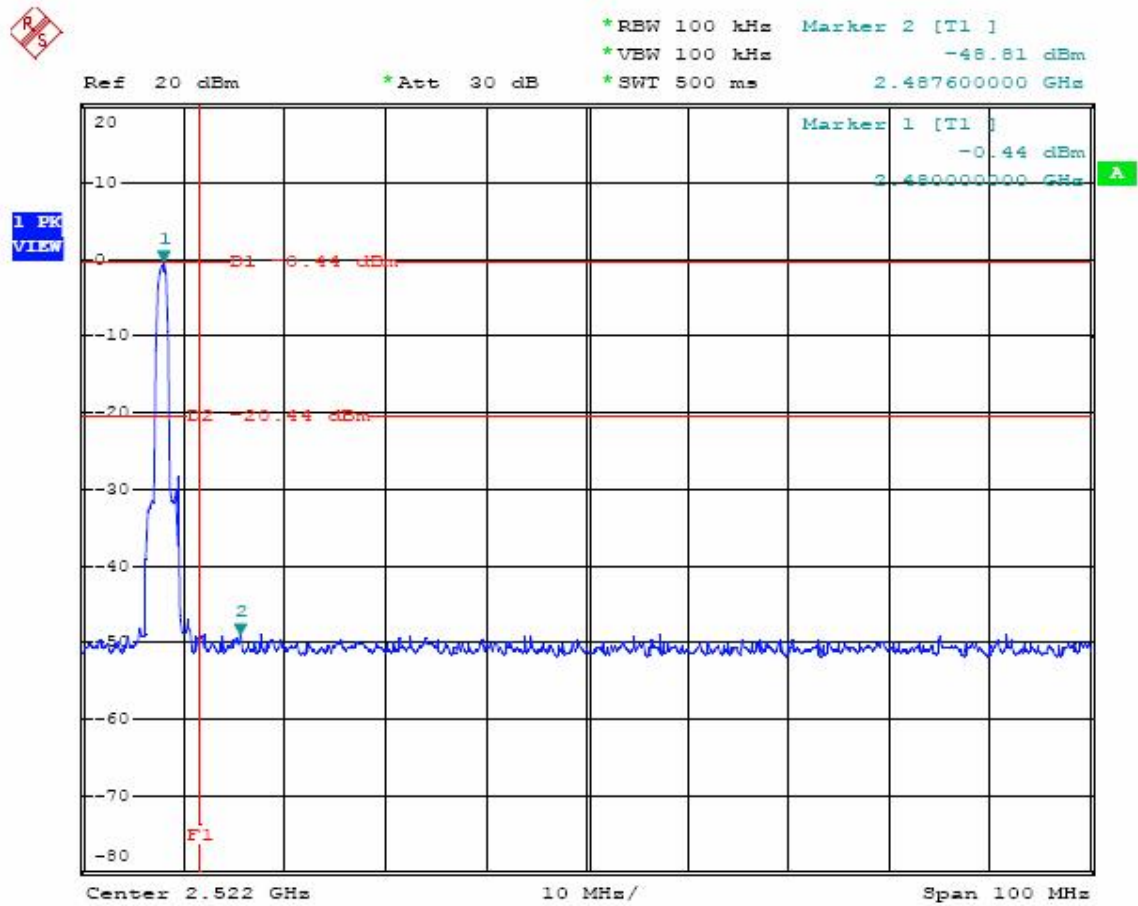
TEST PLOT OF BAND ELDG FOR BOTTOM CHANNEL (2.310 GHz – 2.390 GHz)

Date: 14.DEC.2011   14:54:33

TEST PLOT OF BAND ELDG FOR BOTTOM CHANNEL (2.4835 GHz – 2.500 GHz)

UNCAL	Marker 1 [T1]		RBW	100 kHz	RF Att	40 dB
20 dBm		-48.35 dBm	VBW	100 kHz		
-20 dBm		2.48497094 GHz	SWT	500 ms	Unit	dBm

Start 2.4835 GHz   1.65 MHz/   Stop 2.5 GHz

Date: 14.DEC.2011 15:01:30

10. NUMBER OF HOPPING FREQUENCY

10.1 MEASUREMENT PROCEDURE
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
4. Set the Spectrum Analyzer as RBW = 100KHZ

10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2
1. Conducted Method.

10.3 MEASUREMENT EQUIPMENT USED
The Same as described in section 5.3

10.4 LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=15	79	PASS

NUMBER OF HOPPING CHANNEL PLOT ON CHANNEL 0~78
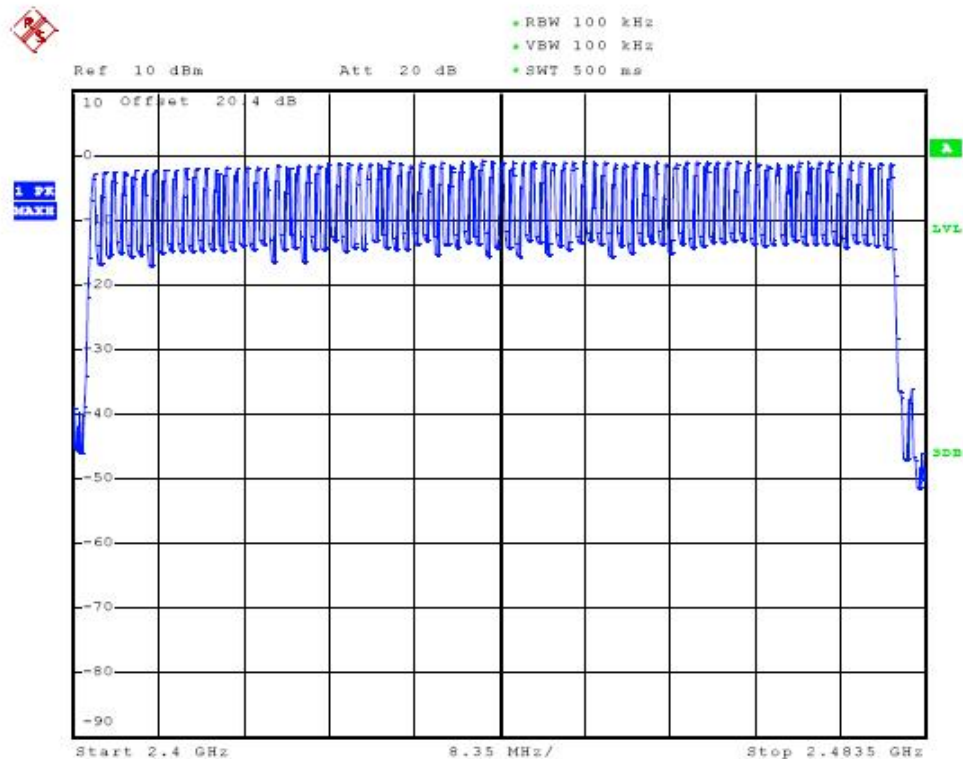
11. TIME OF OCCUPANCY (DWELL TIME)

11.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set center frequency of spectrum analyzer = Operating frequency
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0 Hz,

11.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2
Conducted Method

11.3 MEASUREMENT EQUIPMENT USED

The same as described in section 5.3

11.4 LIMITS AND MEASUREMENT RESULT

BOTTOM CHANNEL(1Mbps)					
Mode	Frequency	Spectrum Reading	Test Result	Limit	Pass / Fail
	(MHz)	(uS)	(mS)	(mS)	
DH1	2402	410	131.2	400	Pass
DH3	2402	1670	267.2	400	Pass
DH5	2402	2920	311.5	400	Pass

MIDDLE CHANNEL(1Mbps)					
Mode	Frequency	Spectrum Reading	Test Result	Limit	Pass / Fail
	(MHz)	(uS)	(mS)	(mS)	
DH1	2441	410	131.2	400	Pass
DH3	2441	1660	265.6	400	Pass
DH5	2441	2920	311.5	400	Pass

TOP CHANNEL(1Mbps)					
Mode	Frequency	Spectrum Reading	Test Result	Limit	Pass / Fail
	(MHz)	(uS)	(mS)	(mS)	
DH1	2480	410	131.2	400	Pass
DH3	2480	1670	267.2	400	Pass
DH5	2480	2920	311.5	400	Pass

A Period Time = 79*0.4=31.6 S
DH1 Time Slot: Reading * (1600/2)*31.6/79
DH3 Time Slot: Reading * (1600/4)*31.6/79
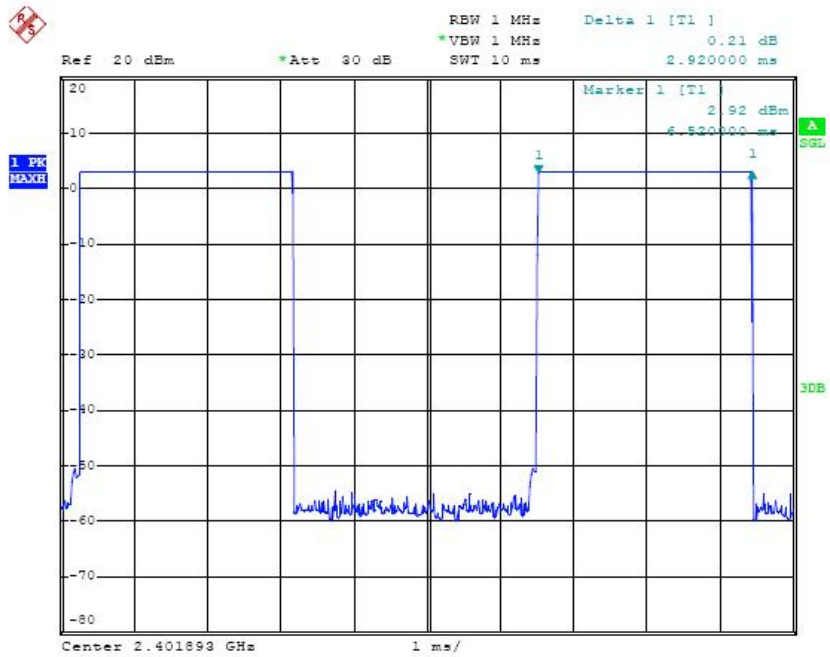DH5 Time Slot: Reading * (1600/6)*31.6/79
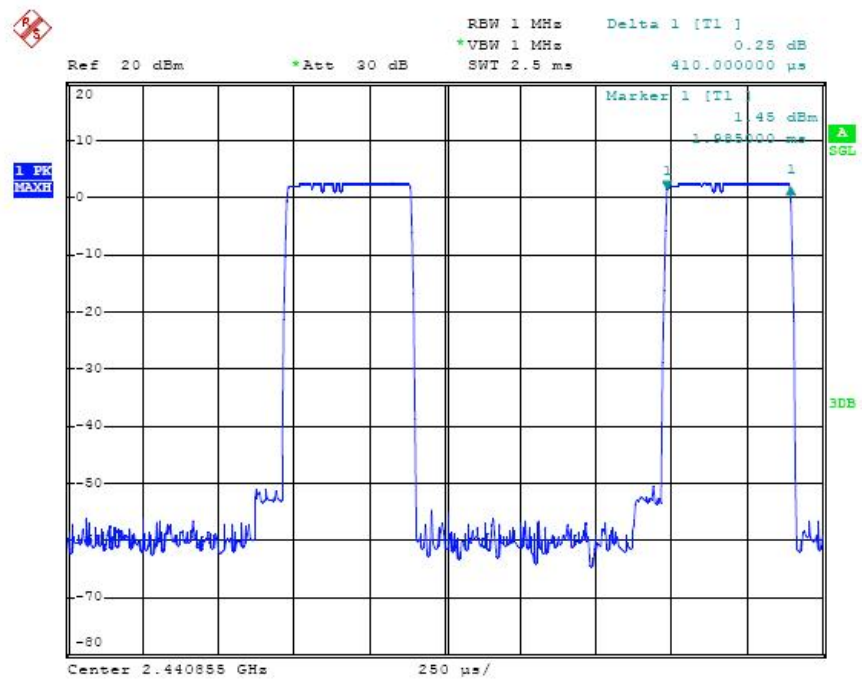
TEST PLOT DH1 MODE BOTTOM CHANNEL
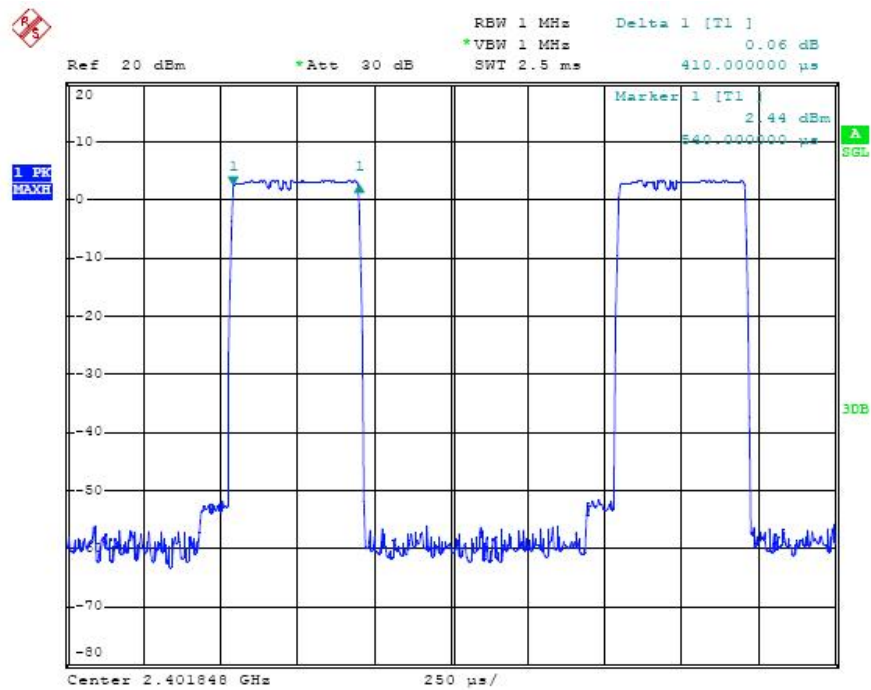
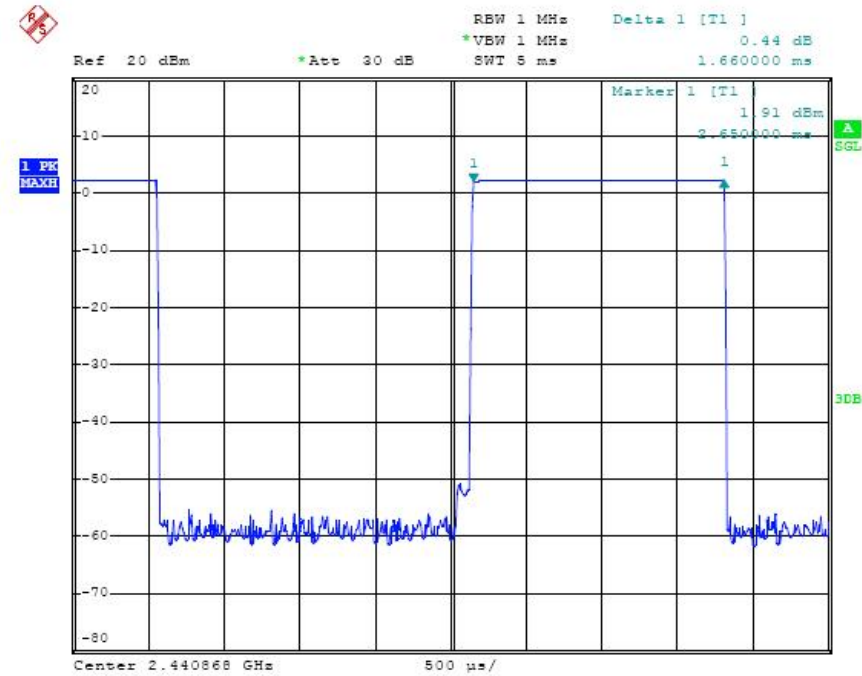## TEST PLOT DH3 MODE BOTTOM CHANNEL
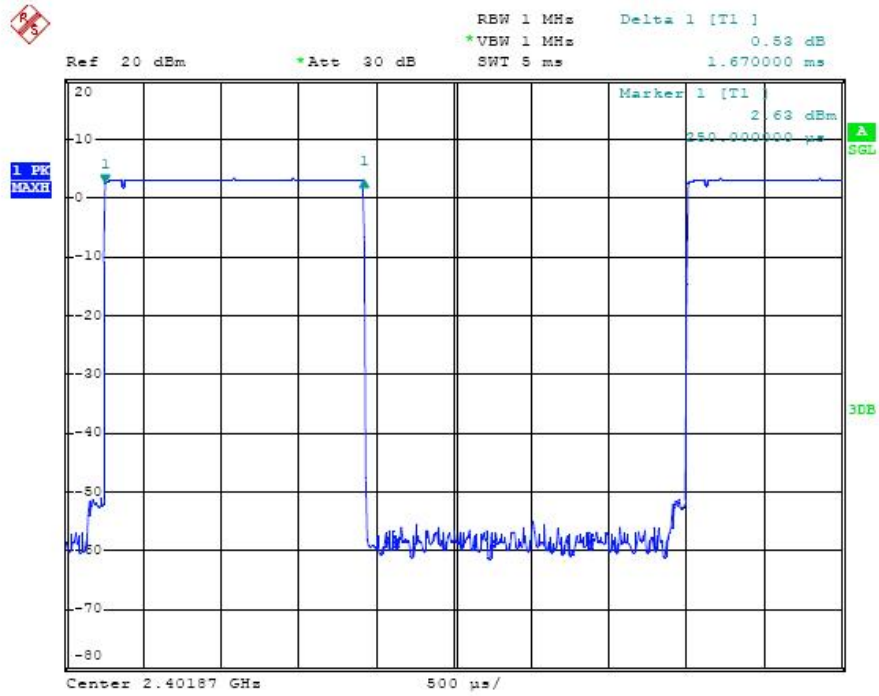
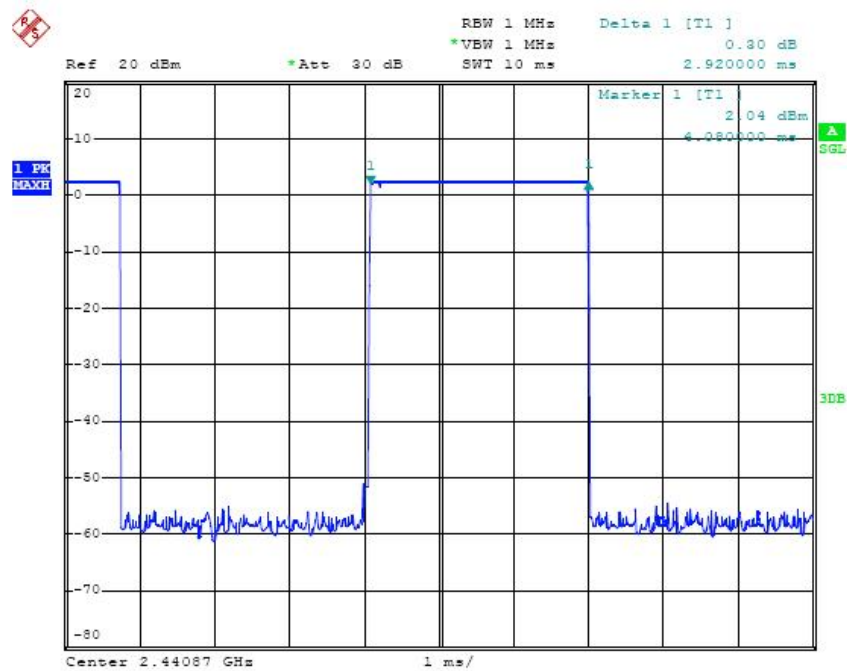

TEST PLOT DH5 MODE BOTTOM CHANNEL
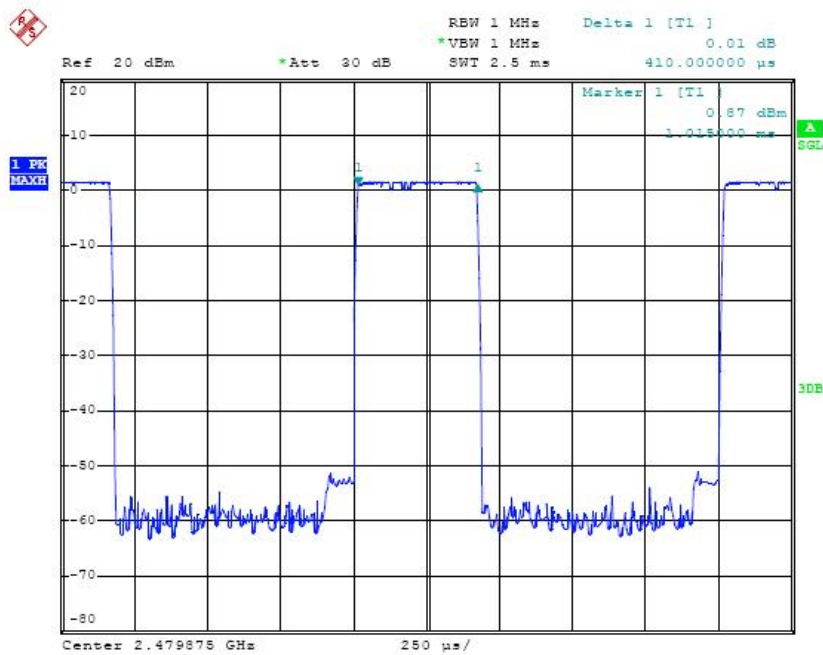
TEST PLOT DH1 MODE MIDDLE CHANNEL

TEST PLOT DH3 MODE MIDDLE CHANNEL

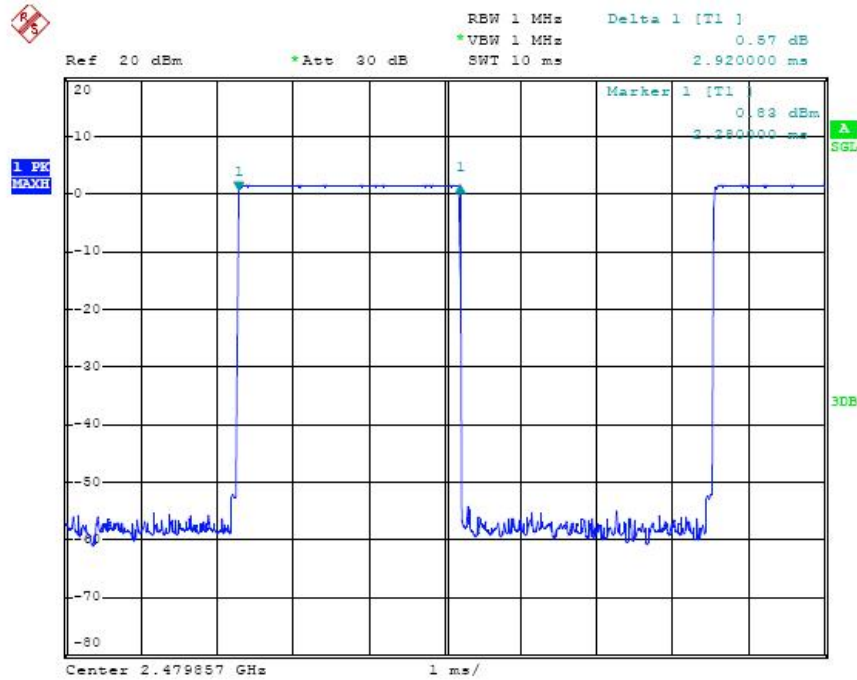## TEST PLOT DH5 MODE MIDDLE CHANNEL

TEST PLOT DH1 MODE TOP CHANNEL

TEST PLOT DH3 MODE TOP CHANNEL
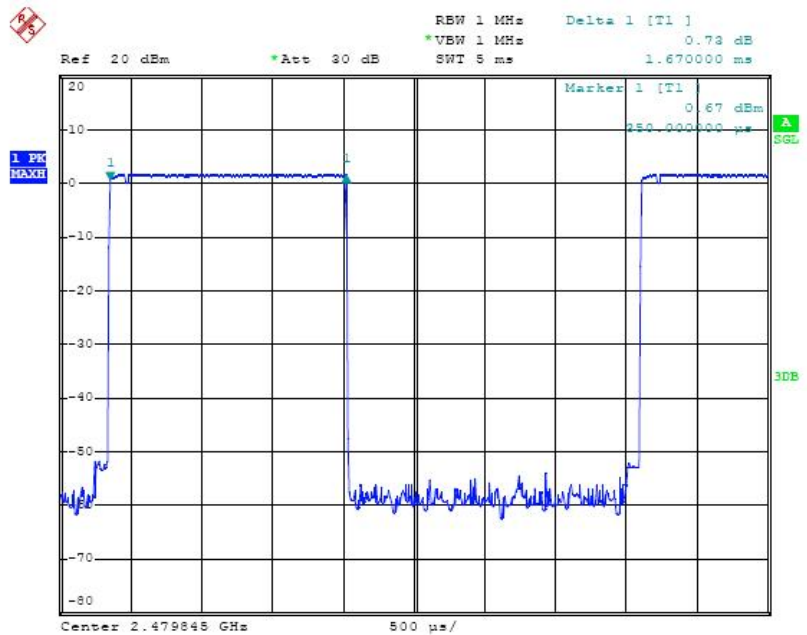
TEST PLOT DH5 MODE TOP CHANNEL

12. FREQUENCY SEPARATION
12.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set center frequency of spectrum analyzer = Middle of Operating frequency
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 5 MHz,

12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)
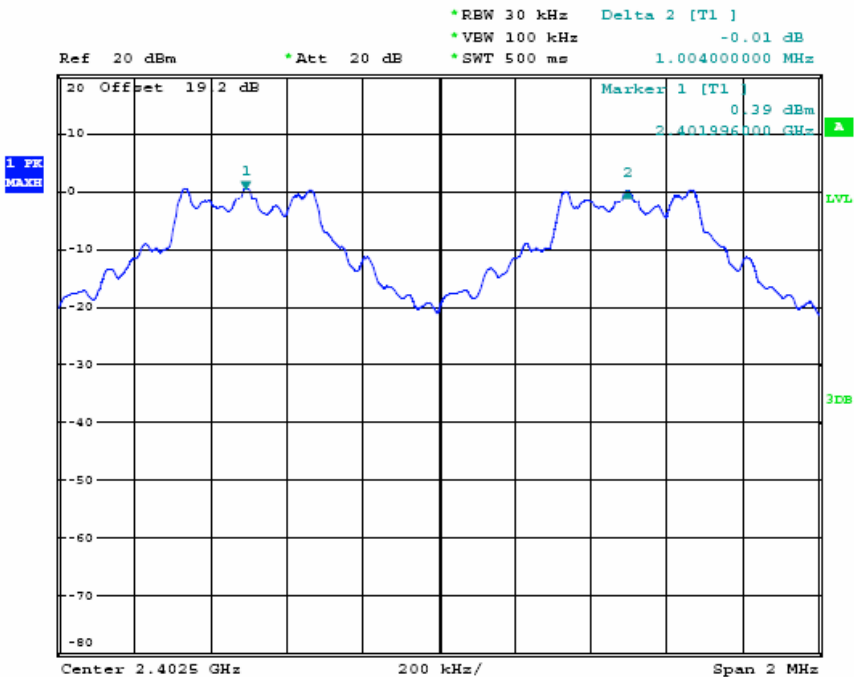Same as described in section 5.2

12.3 MEASUREMENT EQUIPMENT USED

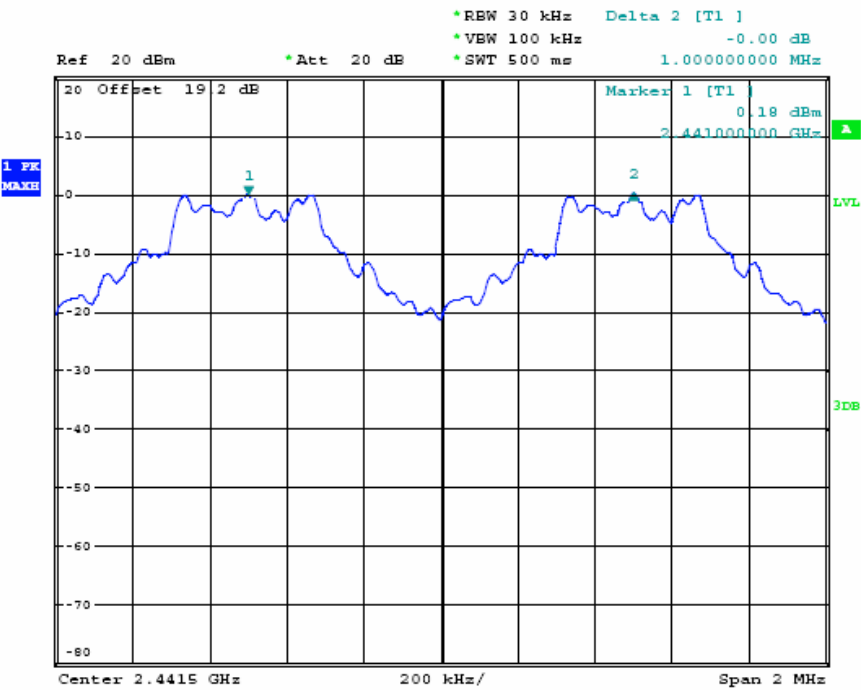The same as described in section 5.3

12.4 LIMITS AND MEASUREMENT RESULT

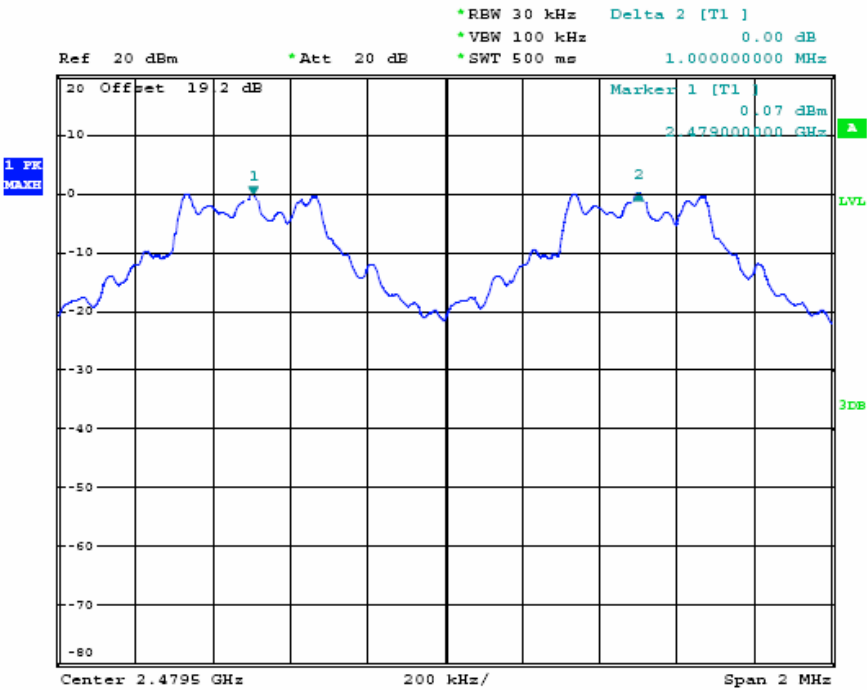| CHANNEL(1Mbps)	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH00-CH01	1004	>=25 KHz or 2/3 20 dB BW	Pass
CH39-CH40	1000		
CH77-CH78	1000		

TEST PLOT FOR FREQUENCY SEPARATION –CHANNEL0-1

TEST PLOT FOR FREQUENCY SEPARATION –CHANNEL39-40

TEST PLOT FOR FREQUENCY SEPARATION -CHANNEL77-78

****** **END OF REPORT** *****