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Report No.: STUGZEMO120514395RF1  
Page: 1 of 34

## FCC ID TEST REPORT

**Application No.:** STUGZEMO120514395RF1

**Applicant:** Hi-Target Surveying Instrument Co., Ltd

**Address**  
10th Floor, Chuangxin Building, Tian'an Technology Zone, No.555,  
the North of Panyu Road, Panyu District, Guangzhou City, China

**Equipment Under Test (EUT):**

**EUT Name:** Intelligent Handheld GPS

**Trade Mark:** HI-TARGET

**Model No.:** Qcool

**Serial No.:** Not supplied by client

**FCC ID:** O39ZHDQCOOL

**Standards:** FCC PART 15C

**Date of Receipt:** Jul.12, 2012

**Date of Test:** Jul.12, 2012 to Aug.08, 2012

<b>Test Result :</b>	PASS*
----------------------	-------

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

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



## VERIFICATION OF COMPLIANCE

Applicant:	Hi-Target Surveying Instrument Co., Ltd
Applicant Address:	10th Floor, Chuangxin Building, Tian'an Technology Zone, No.555, the North of Panyu Road, Panyu District, Guangzhou City, China
Manufacture:	Hi-Target Surveying Instrument Co., Ltd
Manufacture Address:	10th Floor, Chuangxin Building, Tian'an Technology Zone, No.555, the North of Panyu Road, Panyu District, Guangzhou City, China
EUT Name:	Intelligent Handheld GPS
Trade Mark:	HI-TARGET
Model No.:	Qcool
FCC ID:	O39ZHDQCOOL
Report Number:	STUGZEMO120514395RF1
Date of Test:	Jul.12, 2012 to Aug.08, 2012

### 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.

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## 1. GENERAL INFORMATION

### 1.1 PRODUCT DESCRIPTION

The EUT's name is Intelligent Handheld GPS, 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:	≤4dBm
Modulation Type:	GFSK
Number of channels:	79
Antenna Designation:	Snakelike PCB Antenna
Channel Separation:	1MHz
Power Supply:	DC3.0V direct supplied by two "AA" dry battery

### 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 or multislots 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.

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#### 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 the 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: O39ZHDQCOOL** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

#### 1.7 TEST METHODOLOGY

Testing was performed according to the procedures in ANSI C63.4 (2003) and in accordance to the FCC Public Notice DA 00-705. 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

Industry Canada (IC) Assigned No.: 6664A.

China National Accreditation Service for Conformity Assessment (CNAS) No.: L0307.

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### 1.9 SPECIAL ACCESSORIES

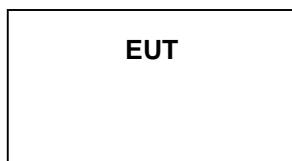
Not available for this EUT intended for grant.

### 1.10 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

## 2. SYSTEM TEST CONFIGURATION

### 2.1 CONFIGURATION OF TESTED SYSTEM



### 2.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID
1	Intelligent Handheld GPS	HI-TARGET	Qcool	O39ZHDQCOOL

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### 3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§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 AND ANTENNA REQUIREMENT

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.
3. For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.  
It is a snakelike PCB antenna, designed as an indispensable part of the EUT. Antenna connections within an enclosure are not readily accessible to the user. It complies with the standard requirement.

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## 5. MAXIMUM OUTPUT POWER

### 5.1 MEASUREMENT PROCEDURE

#### CONDUCTED METHOD

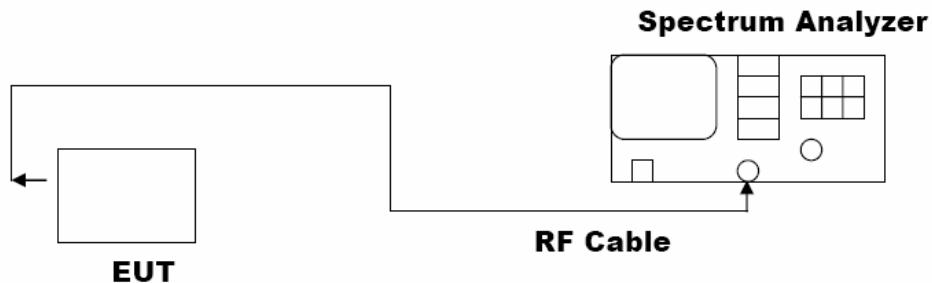
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Centre Frequency = Operation Frequency, RBW= 3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

#### RADIATED METHOD

According to ANSI C63.4:2003

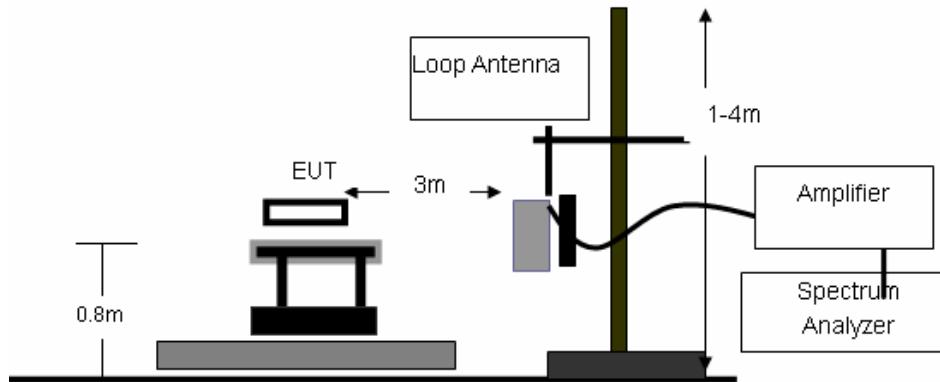
### 5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

#### CONDUCTED METHOD



#### RADIATED EMISSION TEST SETUP

##### RADIATED EMISSION TEST SETUP BELOW 30MHz



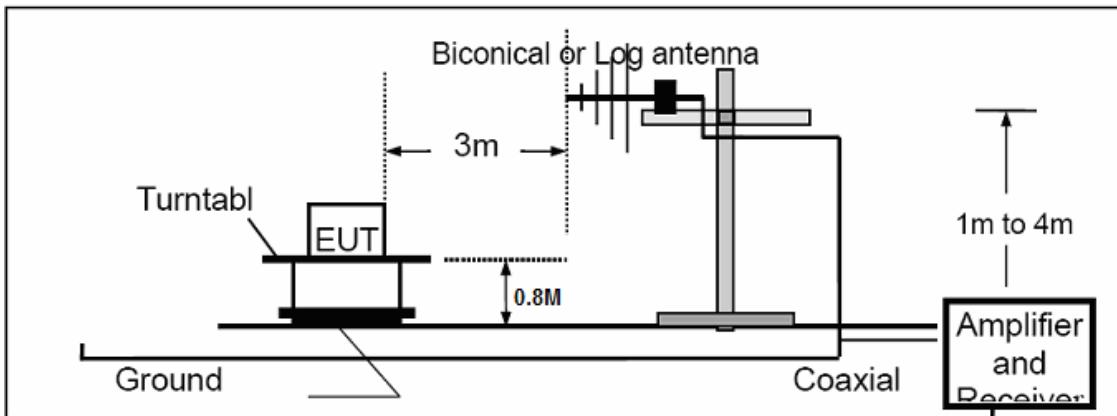
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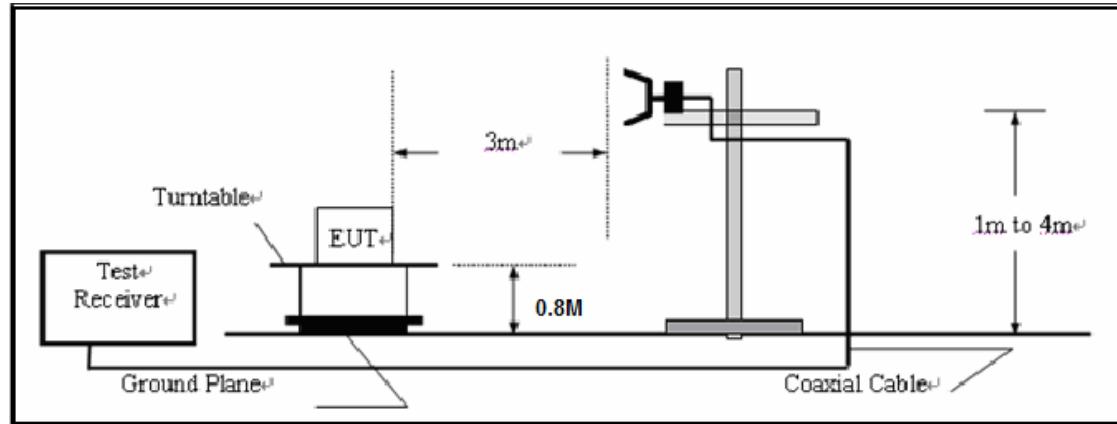
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RADIATED MISSION TEST SETUP 30MHz-1000MHz

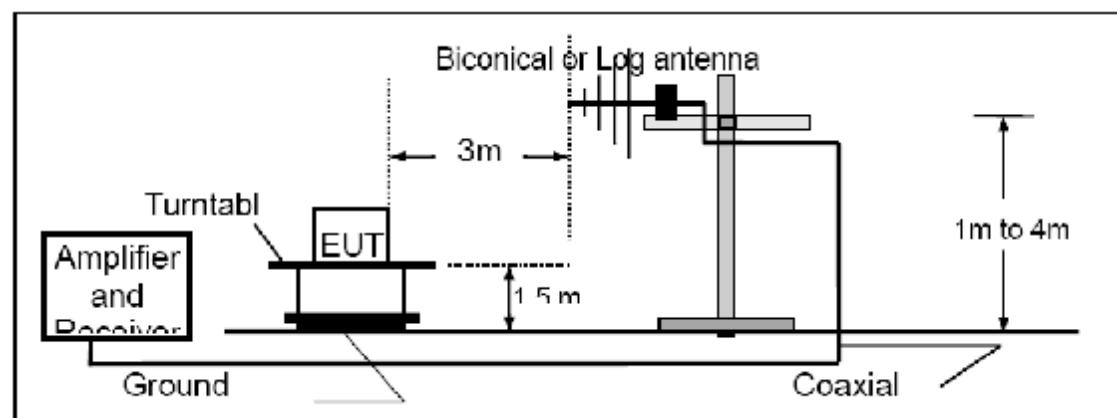


RADIATED MISSION TEST SETUP ABOVE 1000MHz



EIRP TEST SETUP

TEST SETUP BELOW 1GHZ

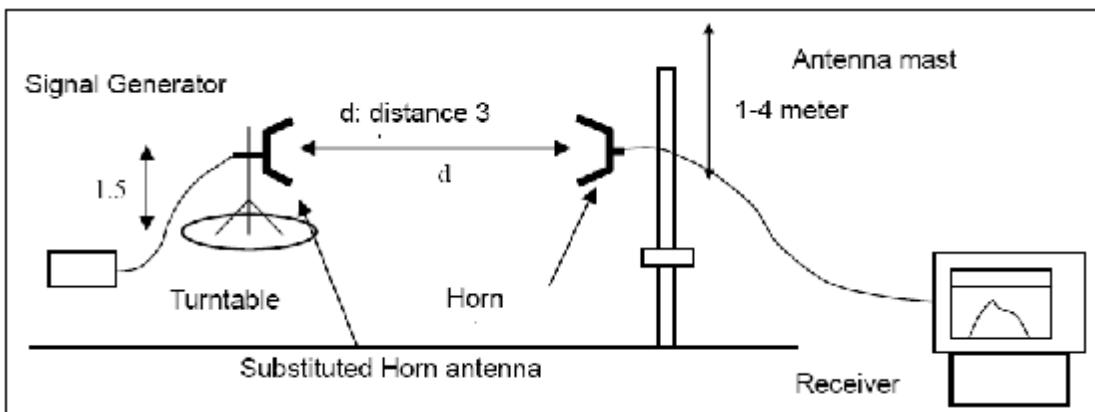
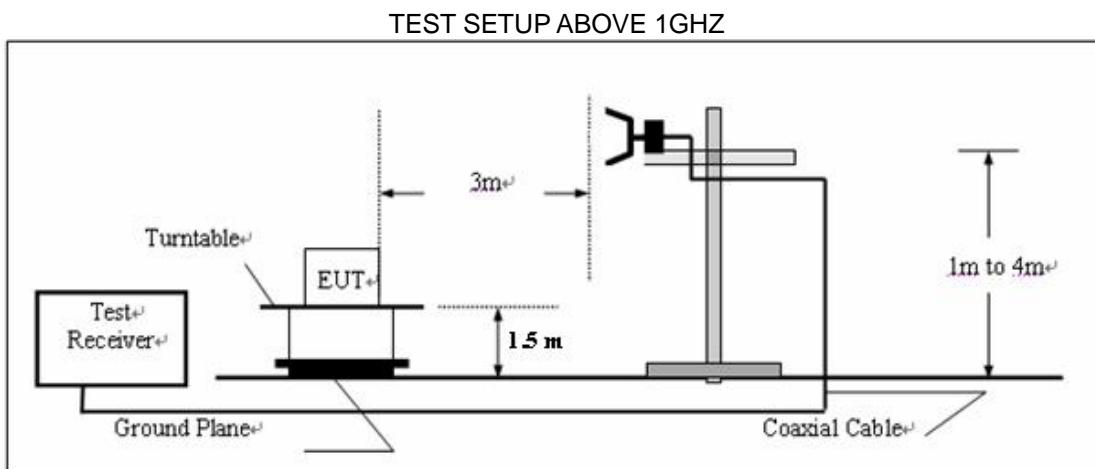
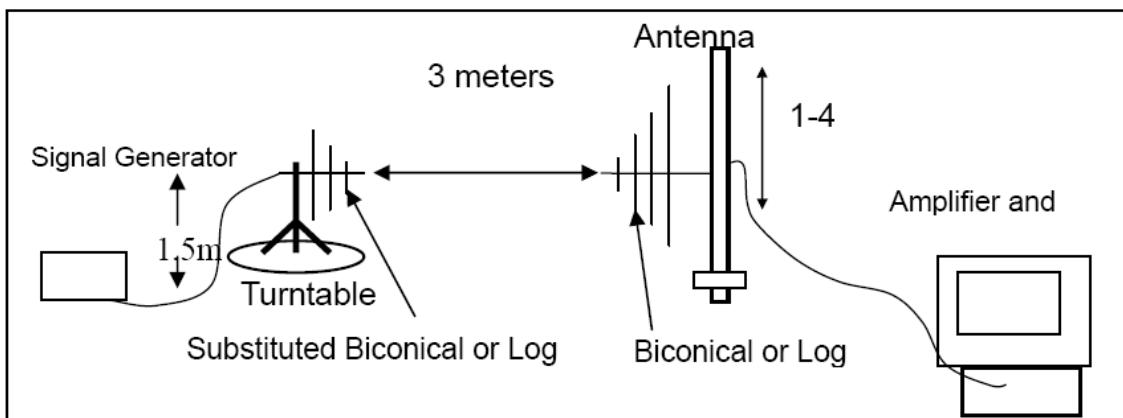


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### 5.3 MEASUREMENT EQUIPMENT USED

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2012	06/28/2013
Amplifier	EM	EM30180	0607030	06/29/2012	06/28/2013
Horn Antenna	EM	EM-AH-10180	N/A	06/29/2012	06/28/2013
EMI Test Receiver	Rohde & Schwarz	ESCI	N/A	06/29/2012	06/28/2013
Amplifier	EM	EM30180	N/A	06/29/2012	06/28/2013
Biological Antenna	A.H. Systems Inc.	SAS-521-4	N/A	06/29/2012	06/28/2013
Loop Antenna	Daze	ZN30900N	SEL0097	06/29/2012	06/28/2013
Isolation Transformer	LETEAC	LTBK	--	06/29/2012	06/28/2013

### 5.4 LIMITS AND MEASUREMENT RESULT

Applicable Limits	Frequency	Measurement Result		
		EIRP (dBm)	Conducted (dBm)	Criteria
30 dBm	2.402GHz	-4.22	-5.76	PASS
30 dBm	2.441GHz	-3.85	-5.38	PASS
30 dBm	2.480GHz	-3.64	-4.99	PASS

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## 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	1.043
	Middle Channel	1.041
	High Channel	1.054

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



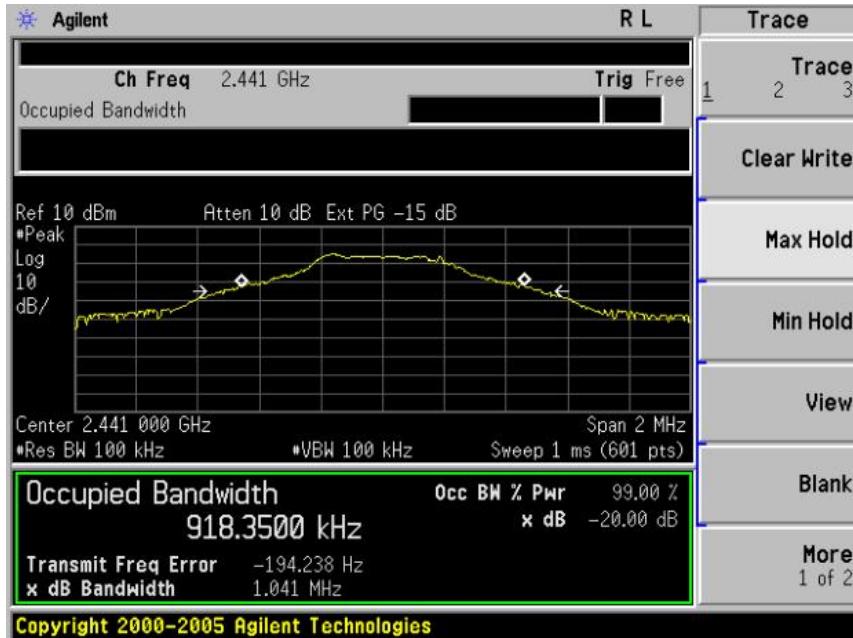
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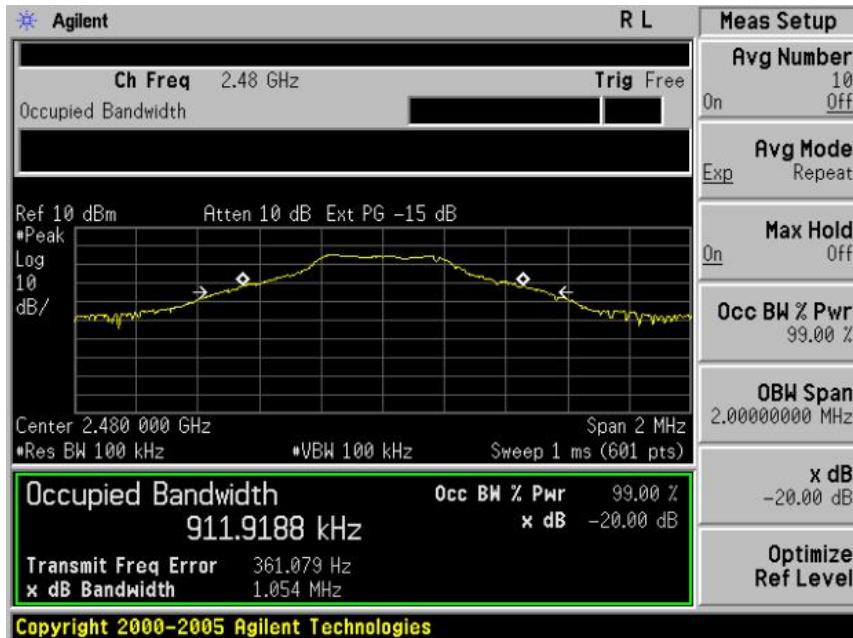
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## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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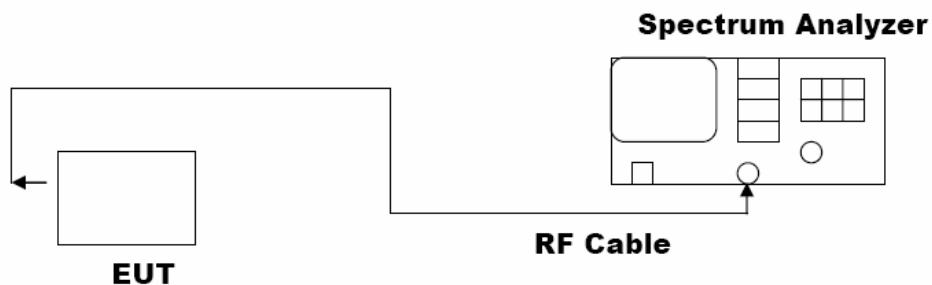
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## 7. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY (N/A)

### 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	06/29/2012	06/28/2013

### 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	--	--

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## 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 produced 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

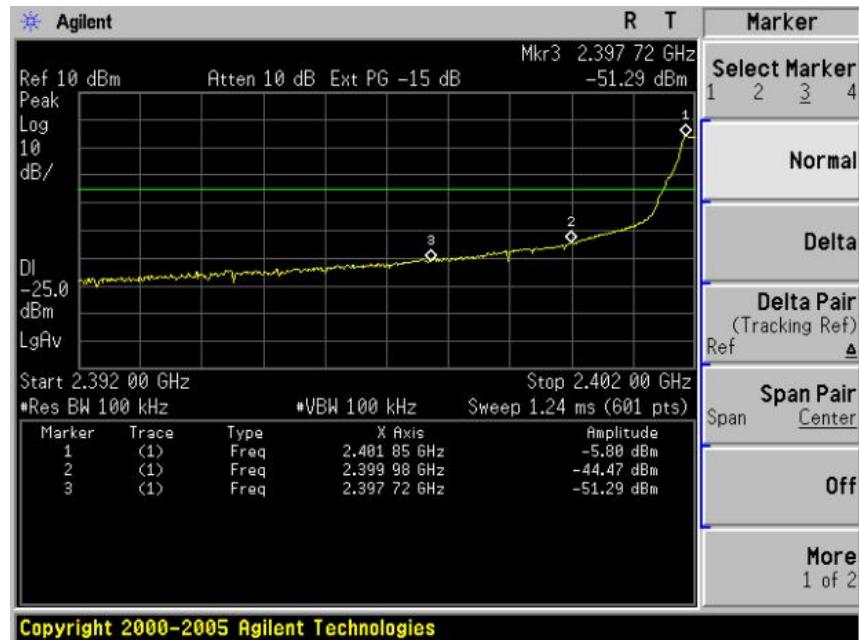
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## TEST PLOT OF BAND ELDG FOR BOTTOM CHANNEL



## TEST PLOT OF BAND ELDG FOR TOP CHANNEL



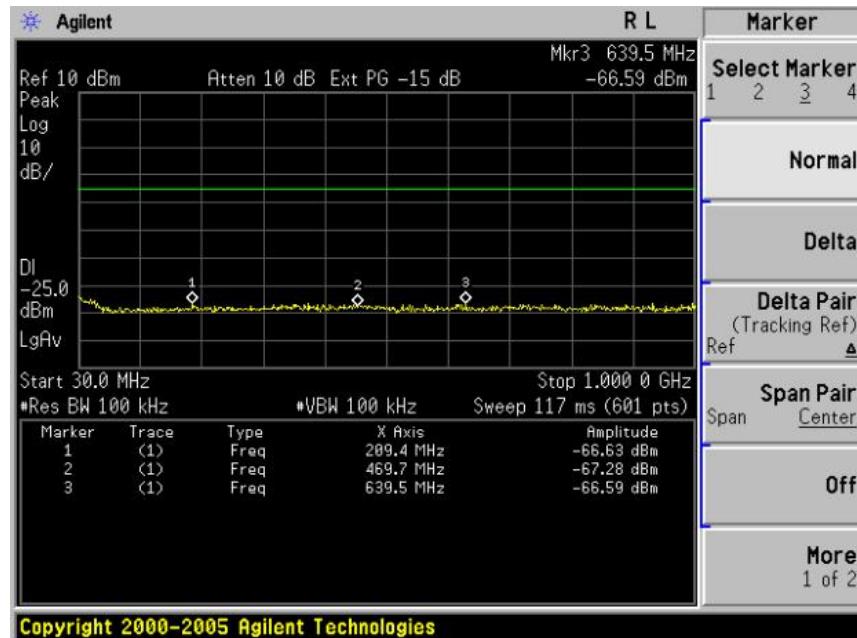
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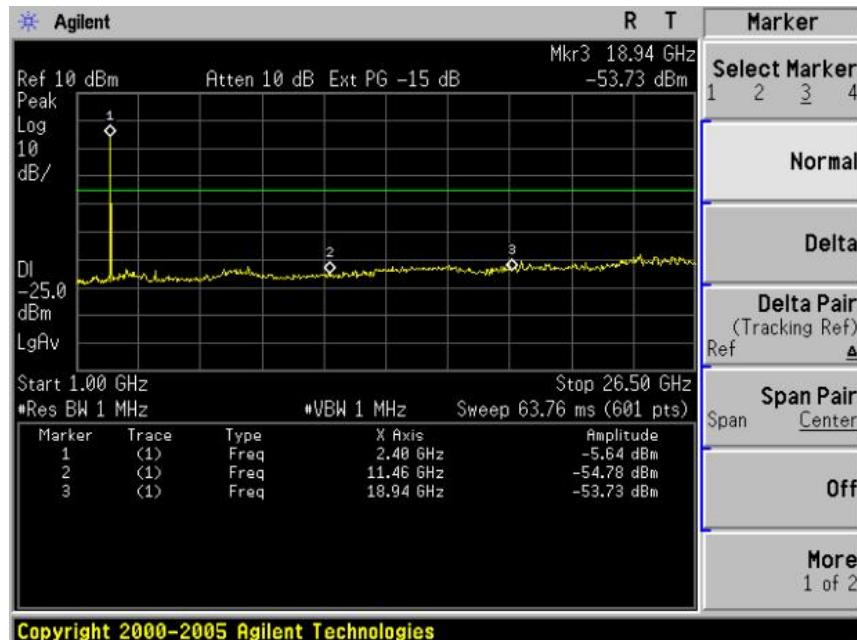
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## TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL – 1



## TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL – 2



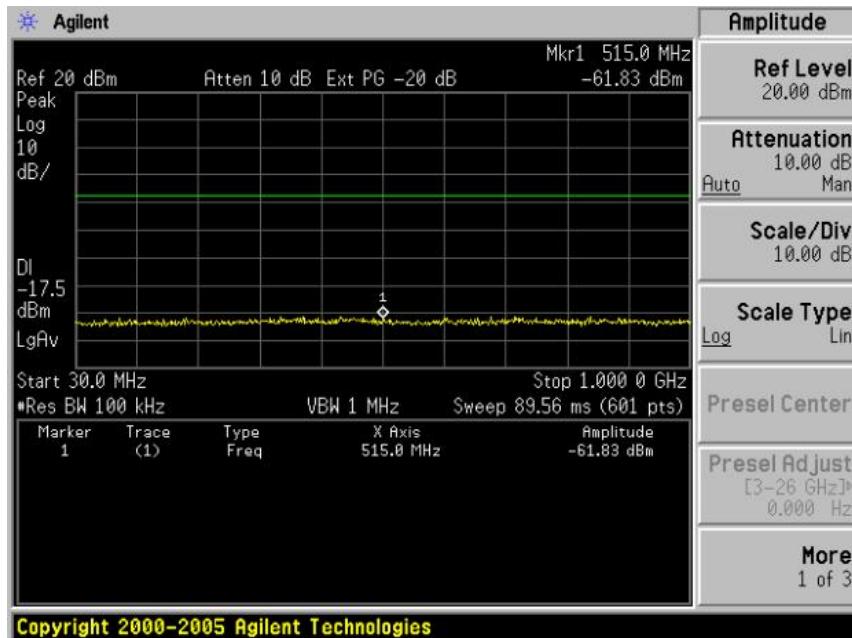
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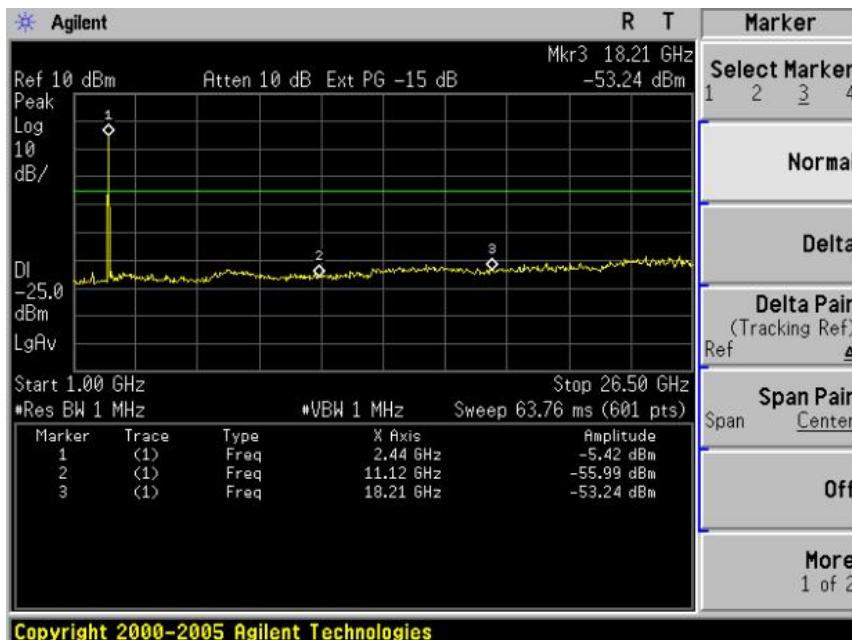
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## TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL – 1



## TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL – 2



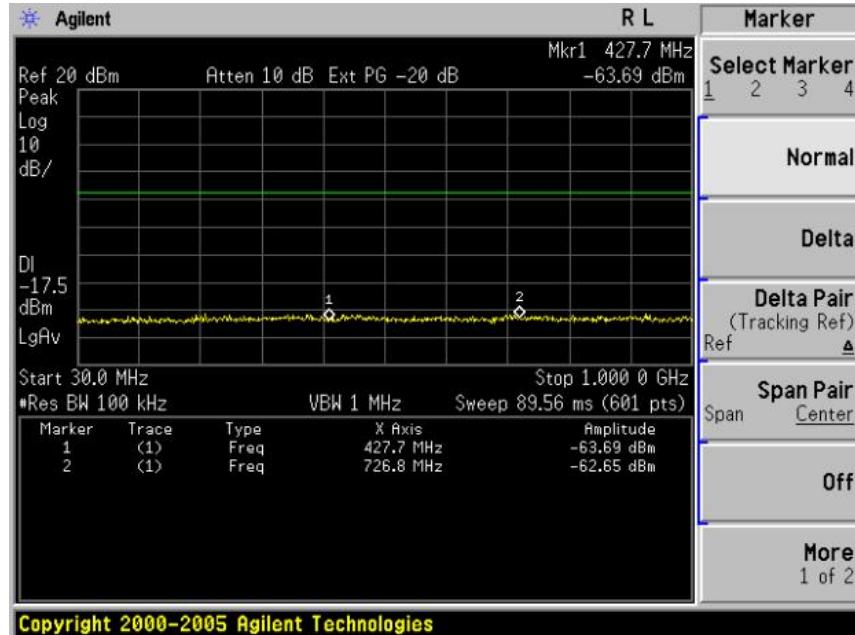
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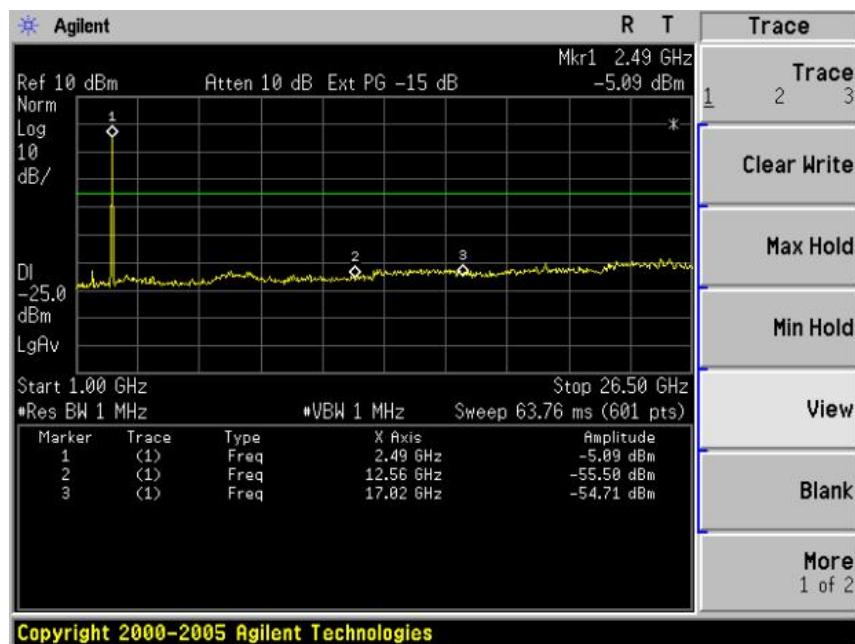
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## TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL – 1



## TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL – 2



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

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
				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 =  $20 \log (\text{specific distance} / \text{test distance})$  (dB);

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

## 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

Band Edge Emission for Bottom Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
2.386	H	59.66	46.97	74	54	*
2.400	H	57.23	47.05	74	54	*
2.386	V	58.35	44.46	74	54	*
2.400	V	55.24	42.37	74	54	*

Band Edge Emission for Top Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
2.483	H	56.85	48.37	74	54	*
2.484	H	55.17	47.67	74	54	*
2.496	H	49.60	44.20	74	54	*
2.483	V	56.18	45.69	74	54	*
2.484	V	54.52	46.30	74	54	*
2.496	V	49.16	43.57	74	54	*

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Restricted Band Emission for Bottom Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
4.81	H	55.40	48.20	74	54	*
4.81	V	56.14	47.55	74	54	*
Above 4.81 GHz	H	--	--	74	54	*
	V	--	--	74	54	*

Restricted Band Emission for Middle Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
4.88	H	54.01	47.03	74	54	*
4.88	V	55.17	46.24	74	54	*
Above 4.88 GHz	H	--	--	74	54	*
	V	--	--	74	54	*

Restricted Band Emission for Top Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
4.95	H	57.61	45.92	74	54	*
4.95	V	56.30	44.85	74	54	*
Above 4.95GHz	H	--	--	74	54	*
	V	--	--	74	54	*

-- Indicated the test value is much lower to limit.

**Note: This Handheld EUT was tested in 3 orthogonal positions and the worst-case data was presented.**

## 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.

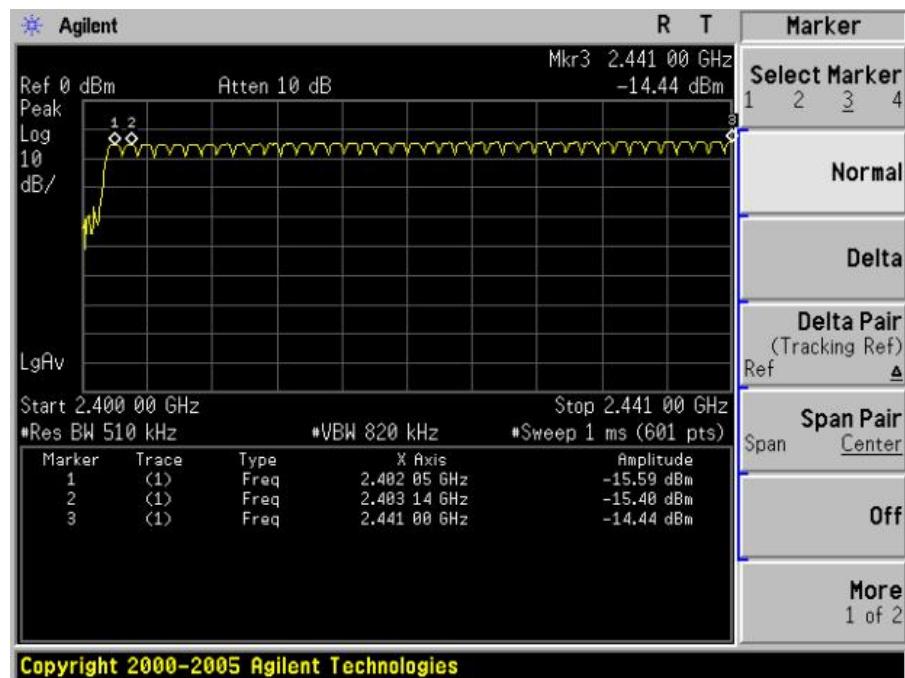
### 10.3 MEASUREMENT EQUIPMENT USED

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
			PASS
>=15	79		

NUMBER OF HOPPING CHANNEL PLOT ON CHANNEL 0~39



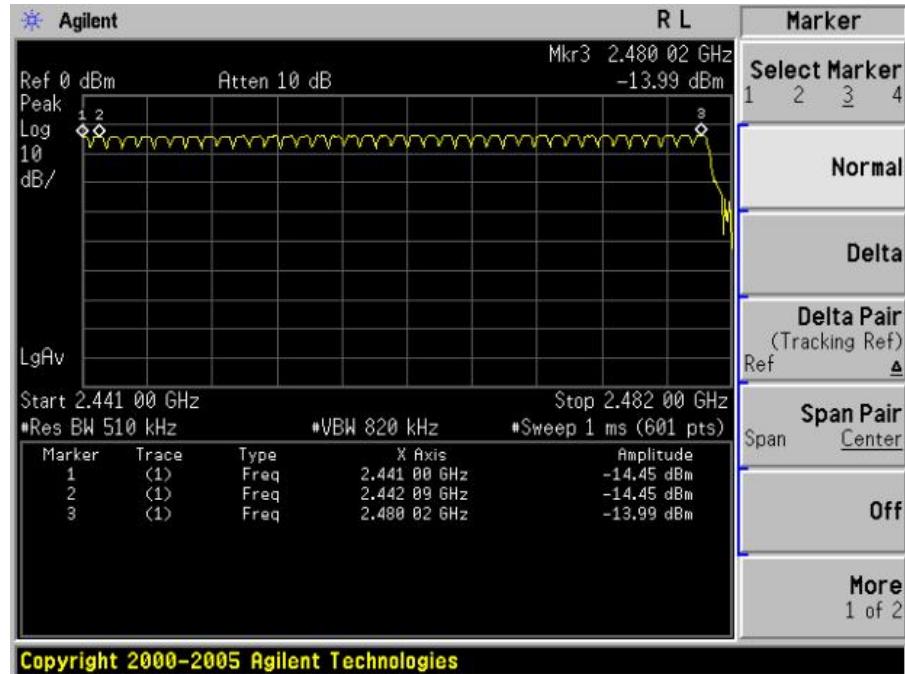
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## NUMBER OF HOPPING CHANNEL PLOT ON CHANNEL 39~78



## \*\*Note:

Testing complies with the standard requirement of FCC Part 15.247(h) Frequency Hopping Spread Spectrum System Intelligence.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

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## 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					
Mode	Frequency (MHz)	Spectrum Reading (uS)	Test Result (mS)	Limit (mS)	Pass / Fail
DH1	2402	371	118.9	400	Pass
DH3	2402	1628	260.4	400	Pass
DH5	2402	2855	304.5	400	Pass
MIDDLE CHANNEL					
Mode	Frequency (MHz)	Spectrum Reading (uS)	Test Result (mS)	Limit (mS)	Pass / Fail
DH1	2441	373	119.4	400	Pass
DH3	2441	1617	258.7	400	Pass
DH5	2441	2867	305.8	400	Pass
TOP CHANNEL					
Mode	Frequency (MHz)	Spectrum Reading (uS)	Test Result (mS)	Limit (mS)	Pass / Fail
DH1	2480	371	118.9	400	Pass
DH3	2480	1625	260.0	400	Pass
DH5	2480	2867	305.8	400	Pass

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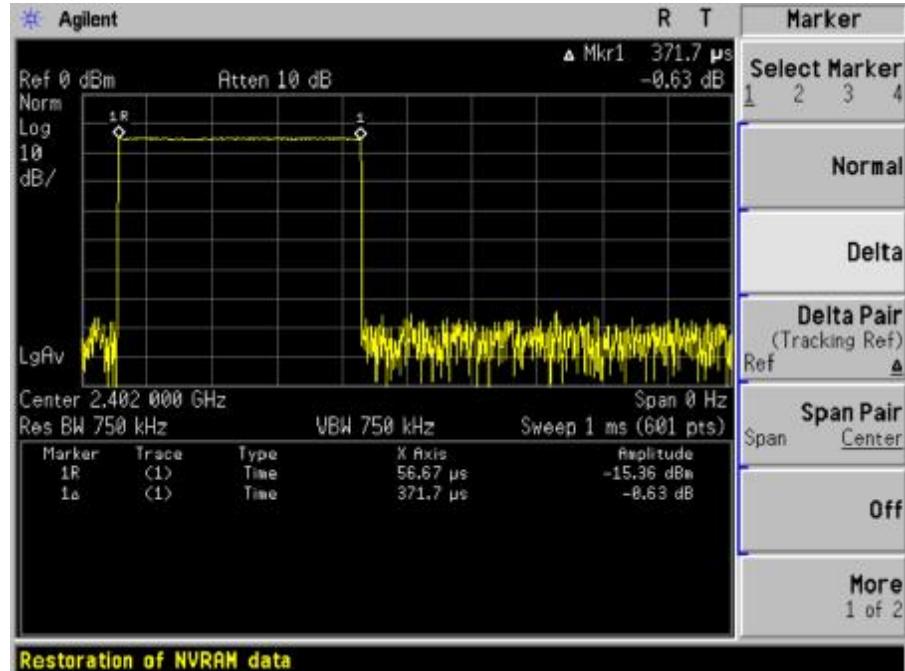
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A Period Time =  $79 * 0.4 = 31.6$  S

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



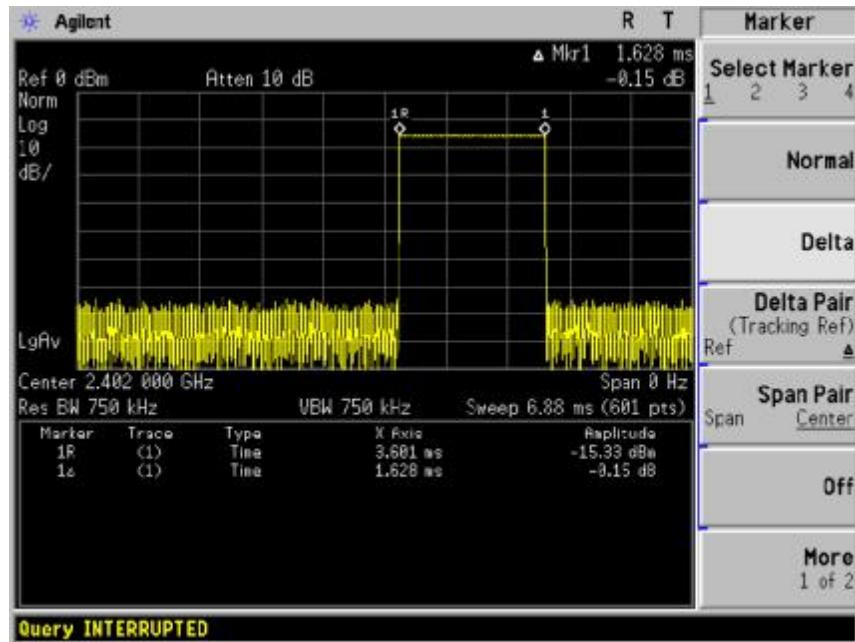
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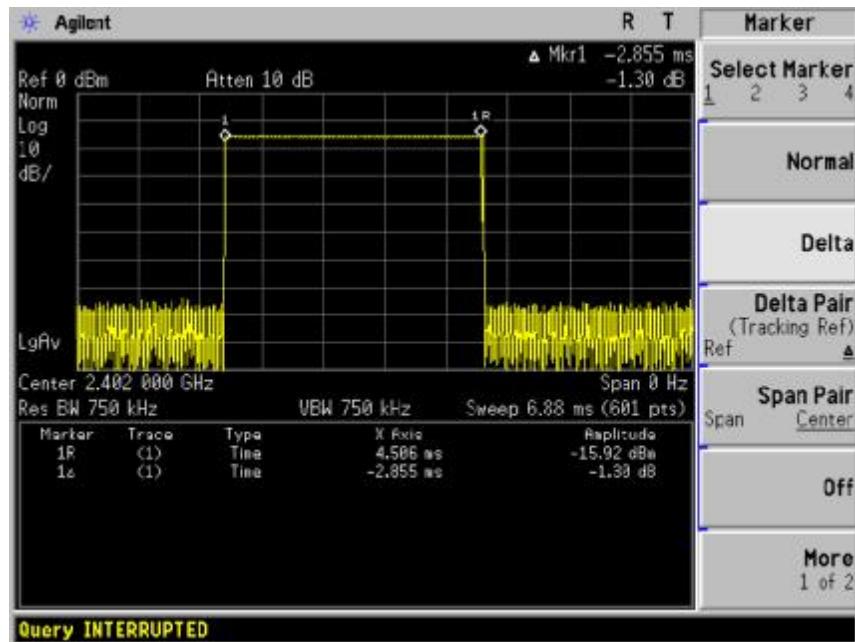
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## TEST PLOT DH3 MODE BOTTOM CHANNEL



## TEST PLOT DH5 MODE BOTTOM CHANNEL



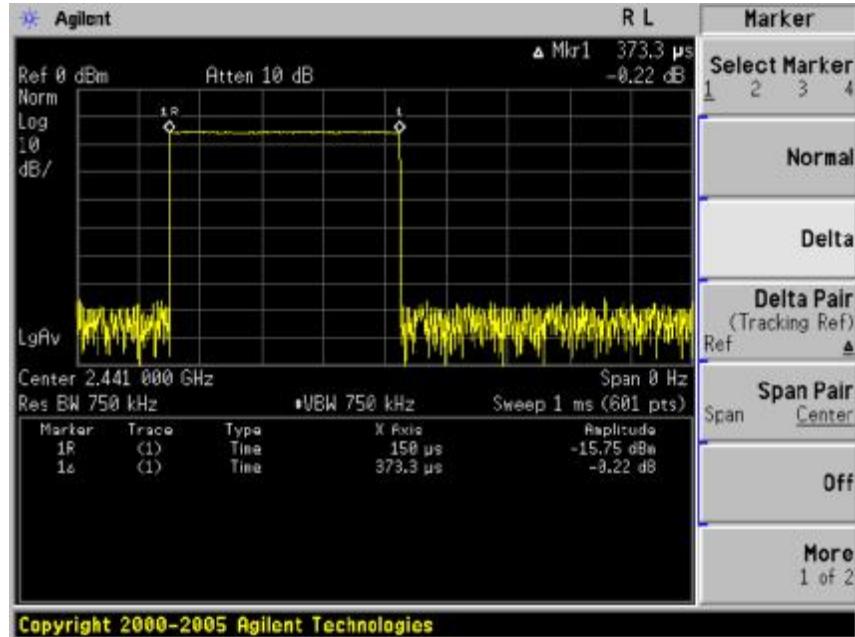
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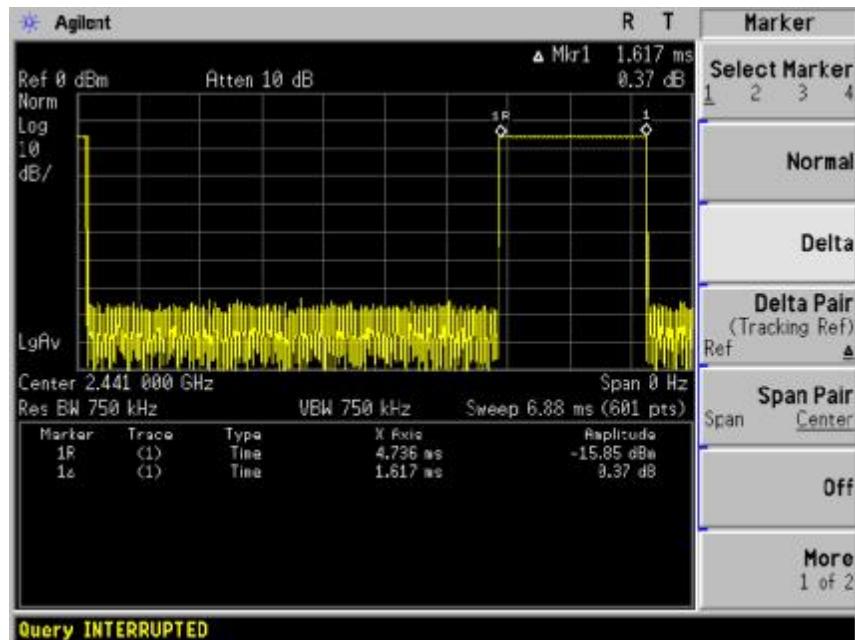
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## TEST PLOT DH1 MODE MIDDLE CHANNEL



## TEST PLOT DH3 MODE MIDDLE CHANNEL



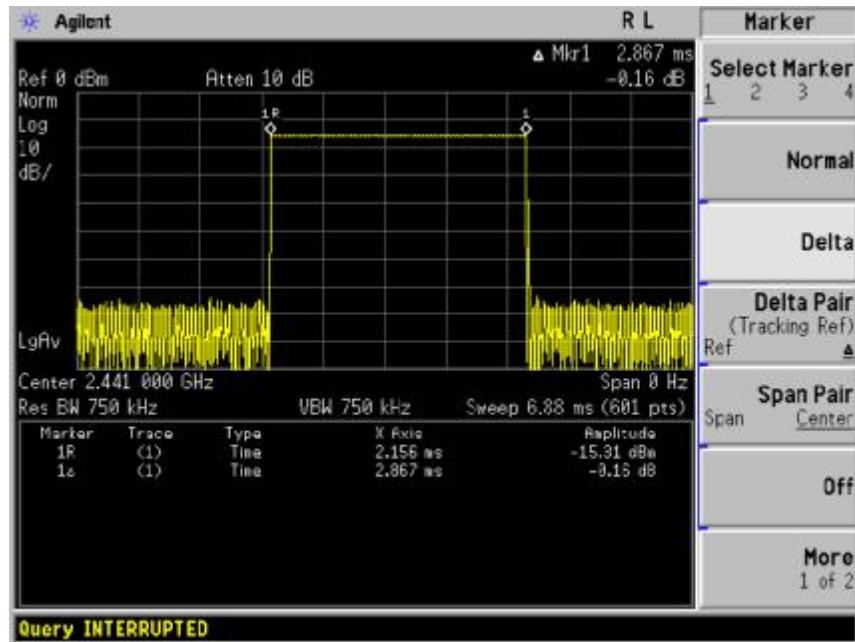
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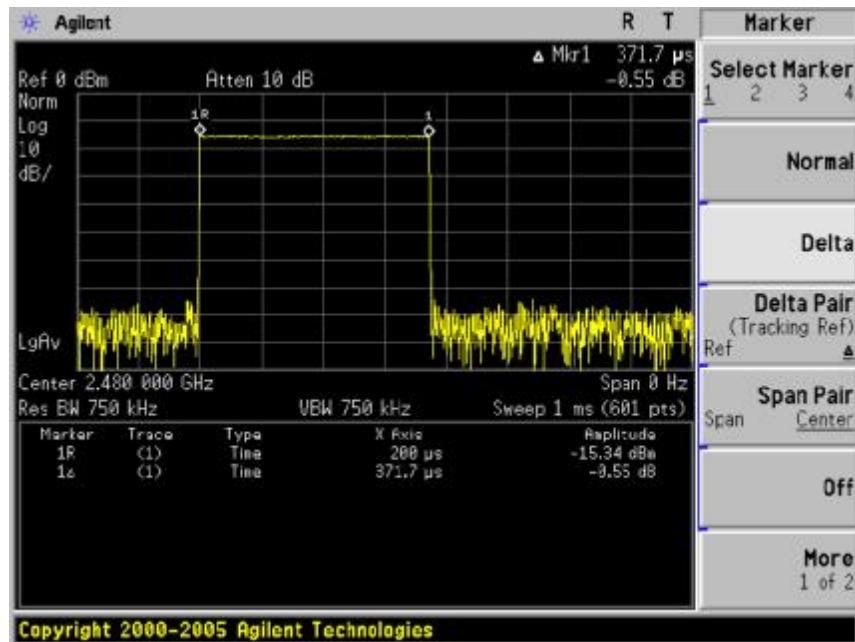
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## TEST PLOT DH5 MODE MIDDLE CHANNEL



## TEST PLOT DH1 MODE TOP CHANNEL



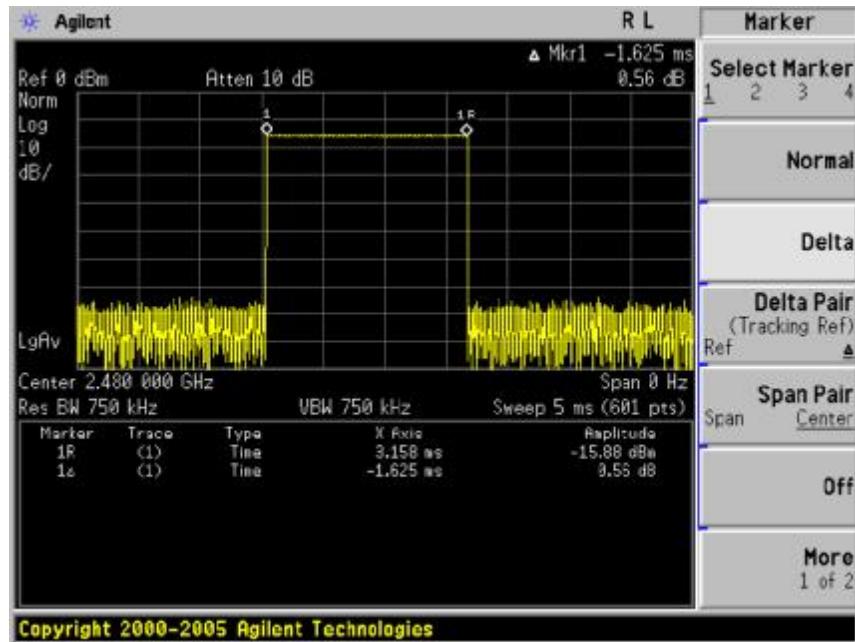
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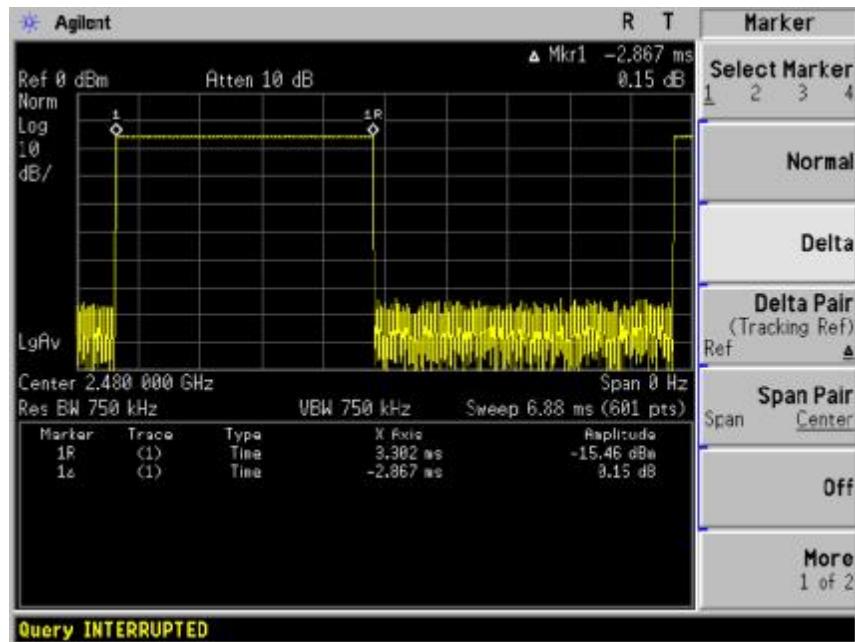
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## TEST PLOT DH3 MODE TOP CHANNEL



## TEST PLOT DH5 MODE TOP CHANNEL



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## 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	
CH01-CH02	1000	>=25 KHz or 2/3 20 dB BW	Pass
CH39-CH40	1000		Pass
CH78-CH79	1008		Pass

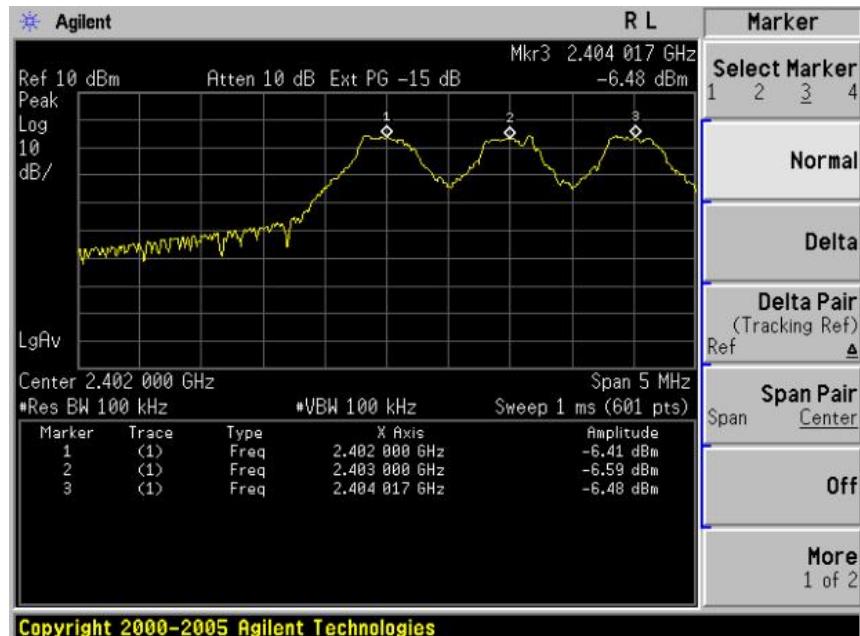
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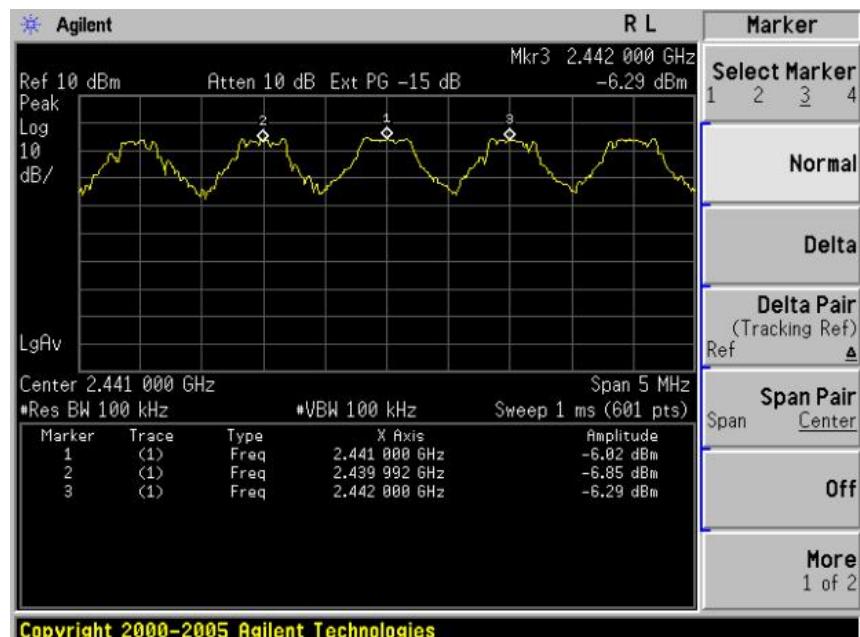
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## TEST PLOT FOR FREQUENCY SEPARATION -1



## TEST PLOT FOR FREQUENCY SEPARATION -2



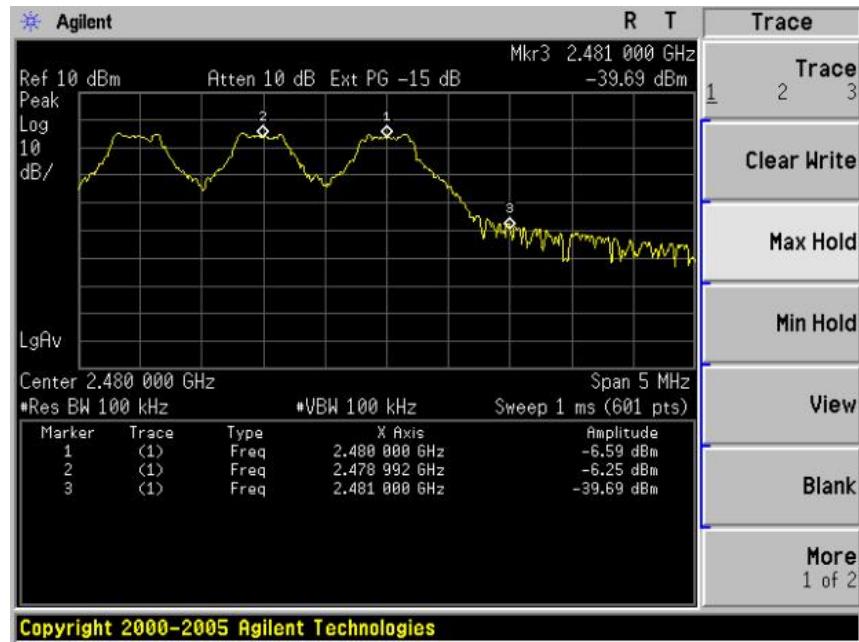
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TEST PLOT FOR FREQUENCY SEPARATION -3



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