FCC Test Report

Report No.: AGC07308170301FE03

FCC ID : 2ALNUNA3610

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: AV Media Receiver

BRAND NAME : NAKAMICHI

MODEL NAME : See Page 4

CLIENT : Guangzhou EPT Electronic Company Limited

DATE OF ISSUE : Mar.28, 2017

STANDARD(S) : FCC Part 15 Subpart C Section 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar.28, 2017	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Guangzhou EPT Electronic Company Limited
Address	3/F., Block No.6, Bo-Ying Industrial Garden, 481 Tainan Road, Dongchong Town, Nansha District, Guangzhou, China
Manufacturer	Shenzhen Soling Industrial Co., Ltd.
Address	28/F, Tower 2, Dachong Business Center 1, No. 9678, Shennan Boulevard, Nanshan District, Shenzhen, Guangdong Province, China, 518000
Product Designation	AV Media Receiver
Brand Name	NAKAMICHI
Test Model	NA3610
Series Model	NA3600, NA3605, NA3660, NA3650, NA3630, NA-TY3709, NA-TY3810, NA-TY3860
Difference Description	All the same except for the model name.
Date of test	Mar.07, 2017 to Mar.13, 2017
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.247.

Tested By	Time Hung	
•	Time Huang(Huang Nanhui)	Mar.13, 2017
Reviewed By	Forest ein	
	Forrest Lei(Lei Yonggang)	Mar.28, 2017
Approved By	Solya shong	
	Solger Zhang(Zhang Hongyi) Authorized Officer	Mar.28, 2017

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "AV Media Receiver" designed as a "Communication Device". 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

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Operation Frequency	2.402 GHz to 2.480GHz			
RF Output Power	6.50dBm(Max)			
Bluetooth Version	V2.1+EDR			
Modulation	GFSK, π /4-DQPSK, 8DPSK for BR/EDR			
Number of channels	79			
Hardware Version	6758MXX_MB_V1(2016-07-21)			
Software Version	MT36-V6.00.0058.03-71Gtest			
Antenna Designation	Fixed Antenna			
Antenna Gain	0dBi			
Power Supply	DC 14.4V			
Note: The BT was supplied by DC source.				

2.2. TABLE OF CARRIER FREQUENCYS

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

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,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.

2.4. EXAMPLE OF A HOPPING SEQUENCY 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

2.5. 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 synchronization 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 behavior:

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.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ALNUNA3610**, filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

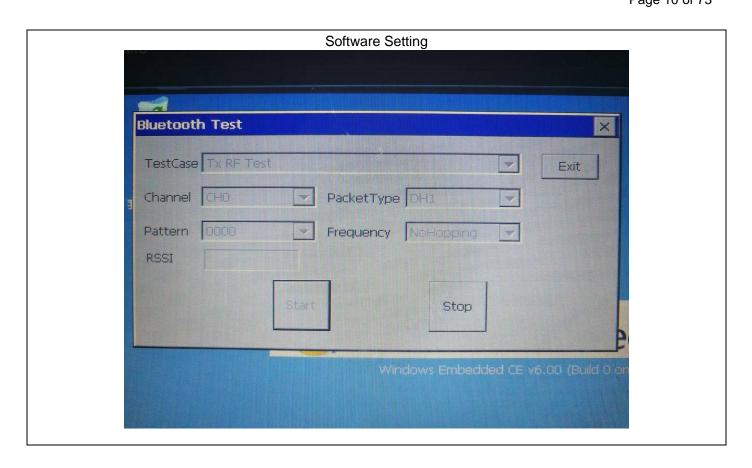
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4. DESCRIPTION OF TEST MODES

TEST MODE DESCRIPTION
Low channel GFSK
Middle channel GFSK
High channel GFSK
Low channel π /4-DQPSK
Middle channel π /4-DQPSK
High channel π /4-DQPSK
Low channel 8DPSK
Middle channel 8DPSK
High channel 8DPSK
BT Link

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1. (Only	the res	sult of	the worst	case was	recorded in	the report	if no other cases.
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	AV Media Receiver	NAKAMICHI	NA3610	EUT
2	PC	Sony	E1412AYCW	A.E
3	Control box	N/A	N/A	A.E
4	Temporary Antenna	T10	N/A	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247 b(1)	Peak Output Power	Compliant
§15.247 a(1)	20 dB Bandwidth	Compliant
§15.247 d	Conducted Spurious Emission	Compliant
§15.247 d §15.209	Radiated Emission	Compliant
§15.247 d	Band Edges	Compliant
§15.247 a(1)(iii)	Number of hopping frequency	Compliant
§15.247 a(1)(iii)	Time of Occupancy	Compliant
§15.247 a(1)	Frequency Separation	Compliant
§15.207	Line conduction Emission	N/A

Note: N/A means it's not applicable to this item.

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6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

7. TEST EQUIPMENT LIST

TEST EQUIPMENT LIST					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	ROHDE & SCHWARZBECK	ESCI	101417	July 4, 2016	July 3, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2016	July 3, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2016	July 3, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 2017
MULTI-DEVICE Positioning Controller	MAX-FULL	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	SCHWARZBECK	FMZB1519	1519-038	June 6, 2016	June 5, 2017
Spectrum analyzer	AGILENT	E4407B	MY46185649	June 6, 2016	June 5, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2016	July 10, 2017
Spectrum Analyzer	AGILENT	E4411B	MY4511453	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 4, 2016	July 3, 2017
RF Cable	SCHWARZBECK	AK9515H	96220	July 4, 2016	July 3, 2017
Horn Ant (18G-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	June 6, 2016	June 5, 2017
Artificial Mains Network	NARDA	L2-16B	000WX31025	July 8, 2016	July 7, 2017
Artificial Mains Network (AUX)	NARDA	L2-16B	000WX31026	July 8, 2016	July 7, 2017
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2016	July 3, 2017
Shielded Room	CHENGYU	843	PTS-002	June 6, 2016	June 5, 2017
Conduction Cable	MXT	SE1	S003	June 6, 2016	June 5, 2017

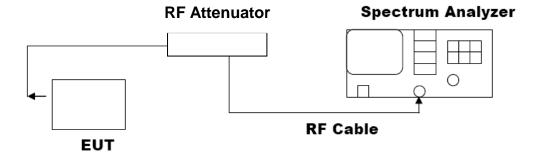
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8. PEAK OUTPUT POWER

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW \geq RBW.
- 4. Record the maximum power from the Spectrum Analyzer.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

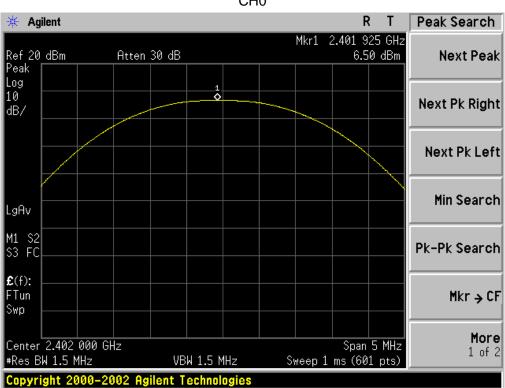


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8.3. LIMITS AND MEASUREMENT RESULT

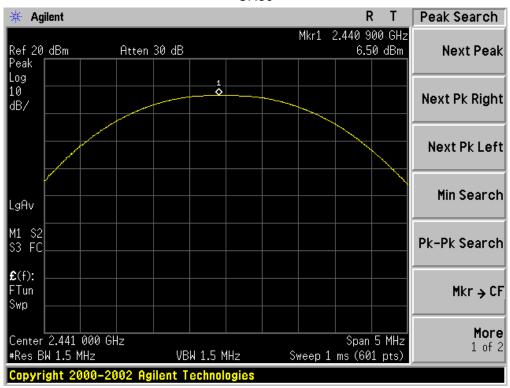
PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail			
2.402	6.50	21	Pass
2.441	6.50	21	Pass
2.480	6.49	21	Pass

CH₀

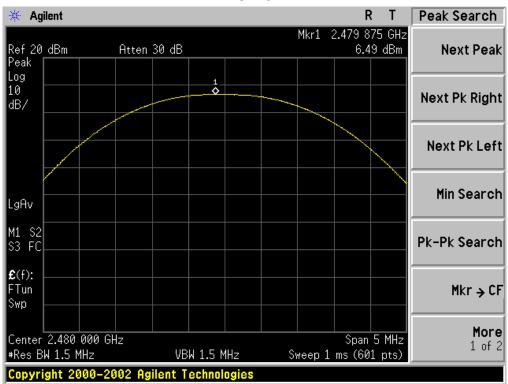


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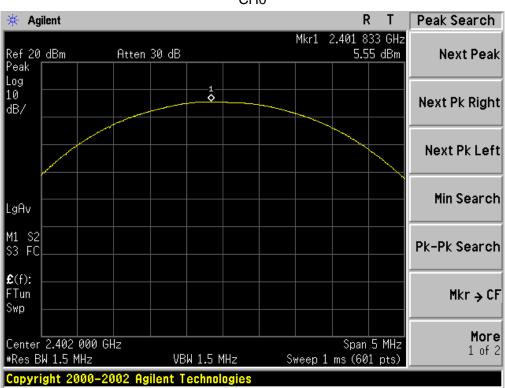
CH78



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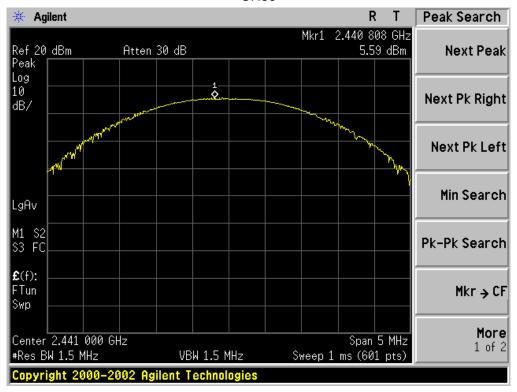
PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION			
Frequency Peak Power Applicable Limits (GHz) Pass or Fai			
2.402	5.55	21	Pass
2.441	5.59	21	Pass
2.480	5.72	21	Pass

CH₀

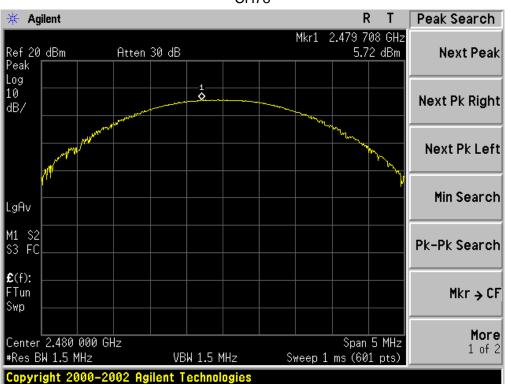


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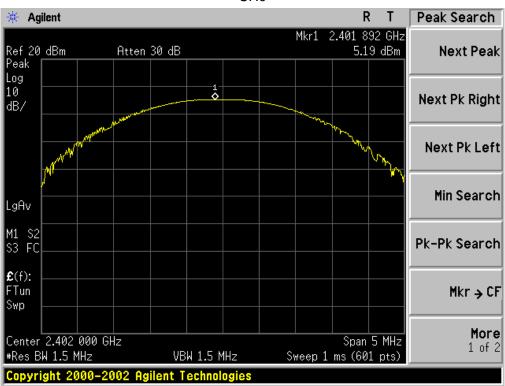
CH78



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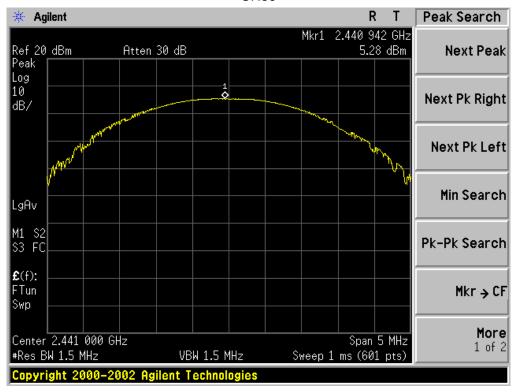
PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION			
Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail			Pass or Fail
2.402	5.19	21	Pass
2.441	5.28	21	Pass
2.480	5.32	21	Pass

CH₀

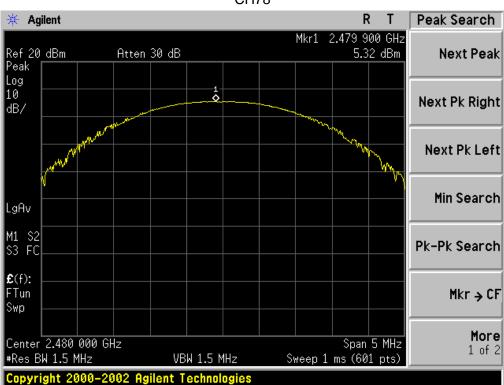


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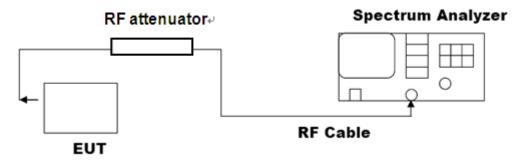
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9. BANDWIDTH

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



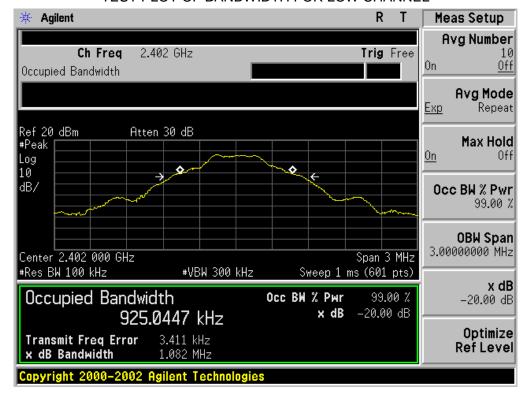
Note: The EUT has been used temporary antenna connector for testing.

9.3. LIMITS AND MEASUREMENT RESULTS

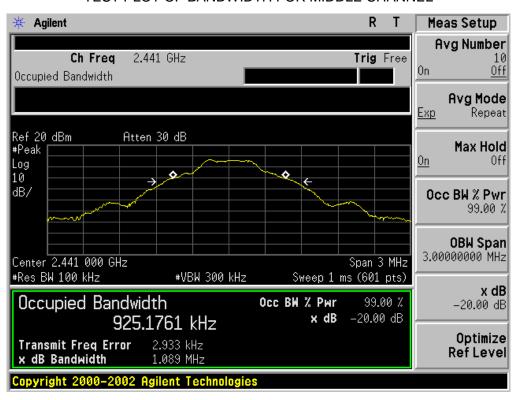
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
	Measurement Result			
Applicable Limits	Test Data (MHz)			
		99%OBW (MHz)	-20dB BW(MHz)	Result
	Low Channel	0.925	1.082	PASS
N/A	Middle Channel	0.925	1.089	PASS
	High Channel	0.921	1.086	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

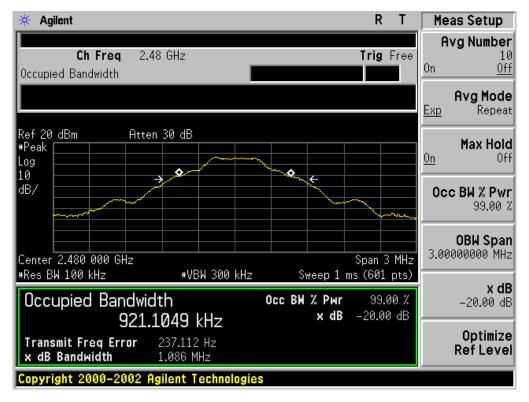


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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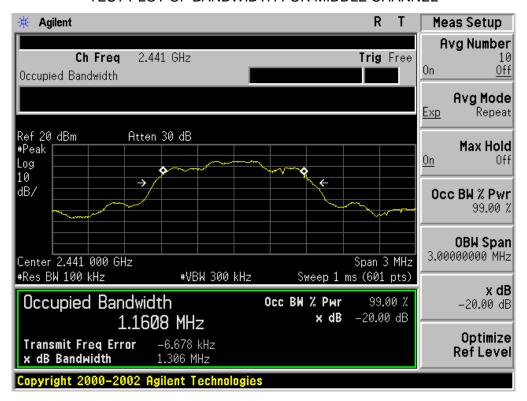
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Measurement Result				
Applicable Limits		Test Data (MHz)		Result
	99%OBW (MHz) -20dB BW(MHz)			
	Low Channel	1.160	1.296	PASS
N/A	Middle Channel	1.161	1.306	PASS
	High Channel	1.164	1.299	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

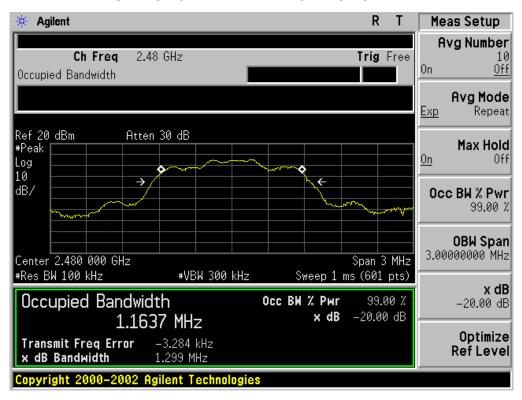


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



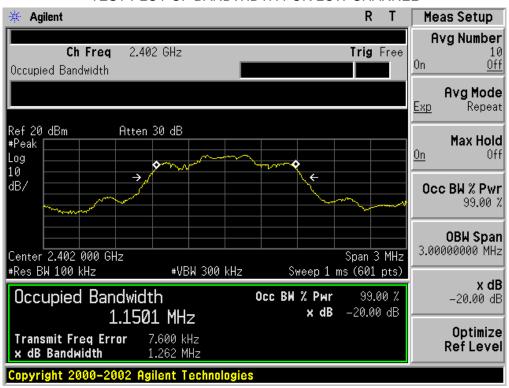
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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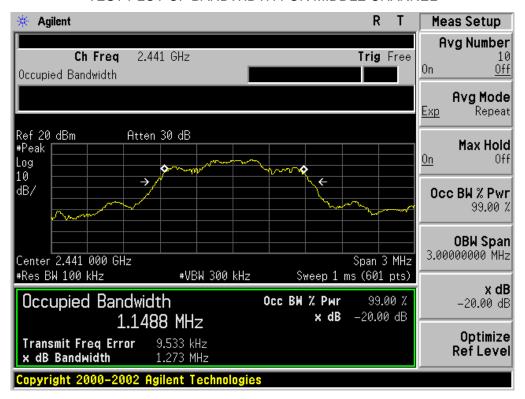
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT					
Measurement Result					
Applicable Limits	Test Data (MHz)		Test Data (MHz)		Result
	99%OBW (MHz) -20dB BW(MHz)				
	Low Channel	1.150	1.262	PASS	
N/A	Middle Channel	1.149	1.273	PASS	
	High Channel	1.142	1.277	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

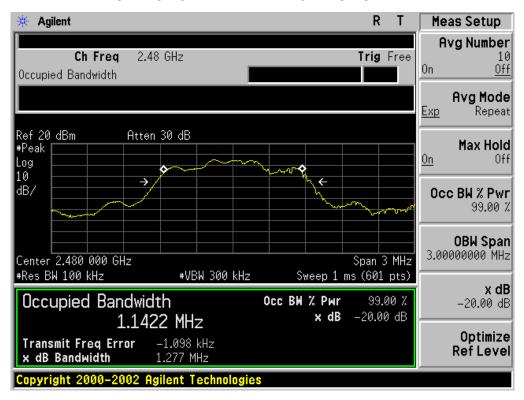


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



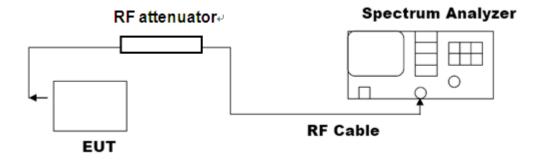
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10. CONDUCTED SPURIOUS EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

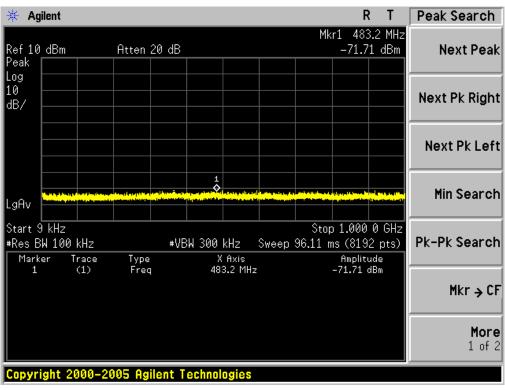


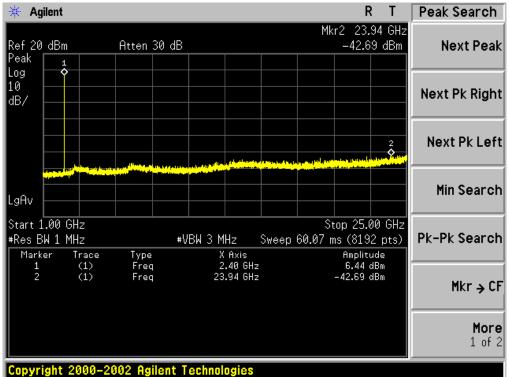
10.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT			
Analia alda Limita	Measurement Result		
Applicable Limits	Test Data	Result	
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit		
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS	
intentional radiator is operating, the radio frequency	Channel		
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	DACC	
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS	
restricted bands, as defined in §15.205(a), must also			
comply with the radiated emission limits specified			
in§15.209(a))			

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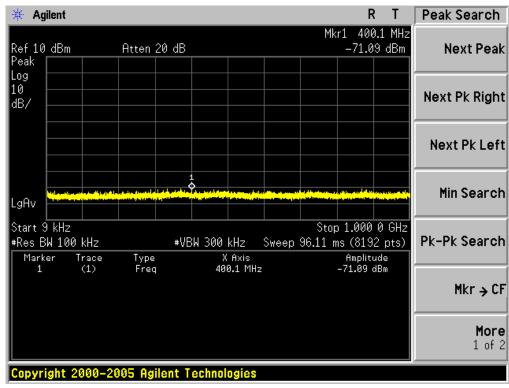
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

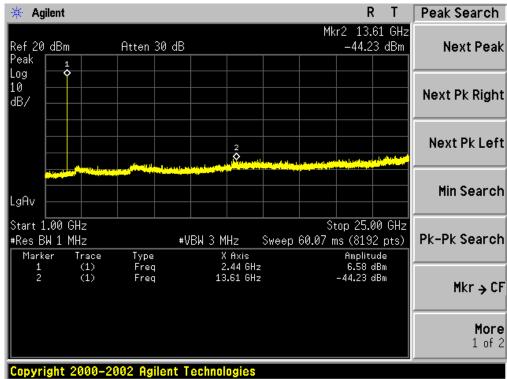




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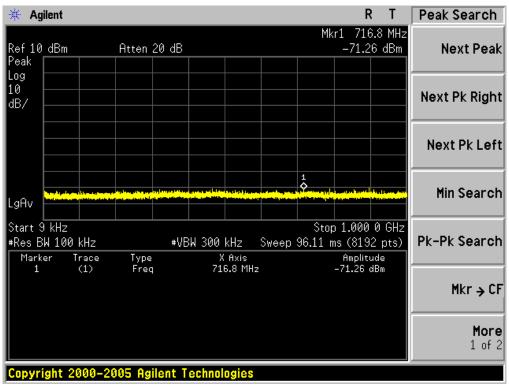
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

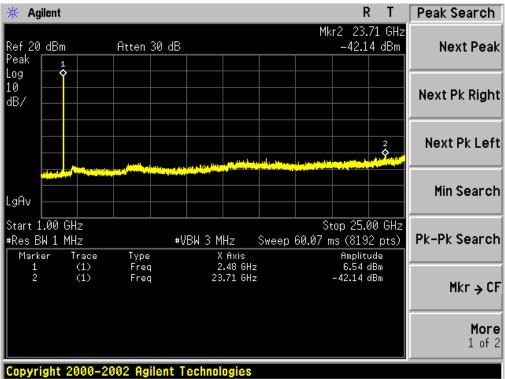




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





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11. RADIATED EMISSION

11.1. TEST LIMIT

Frequency	Distance	Field	Strengths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(µV)/m	(Peak) 54.0 dB(μV)/m (Average)

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

11.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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The following table is the setting of spectrum analyzer and receiver.

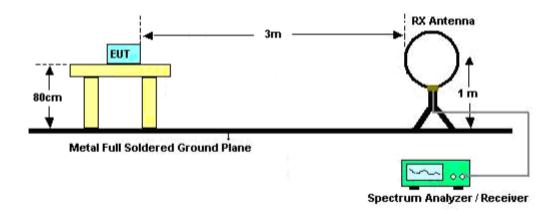
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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11.3. TEST SETUP

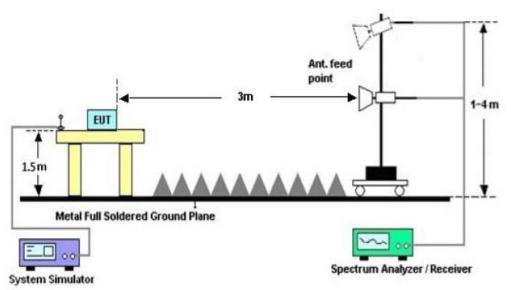
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.4. TEST RESULT

(Worst Modulation: GFSK)

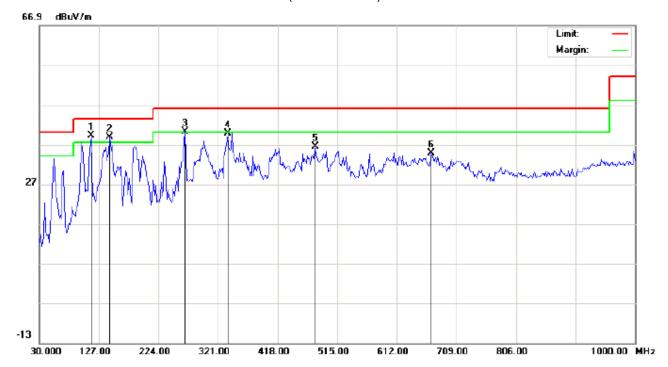
RADIATED EMISSION BELOW 30MHz

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

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RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: AV Media Receiver

M/N: NA3610

Mode: Low Channel TX

Note:

Polarization: Horizontal Temperature: 23.6
Power: Humidity: 52.9 %

Distance:

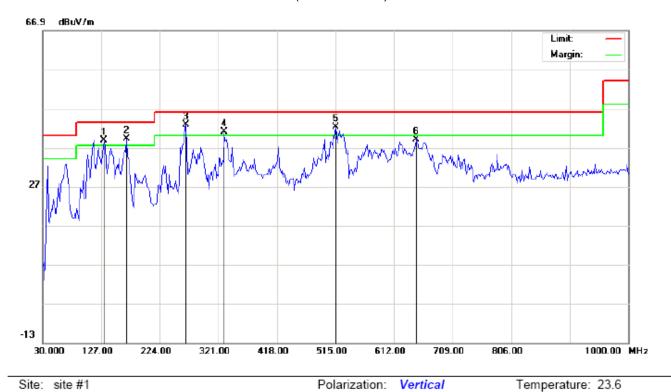
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over		Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	114.0667	31.91	7.23	39.14	43.50	-4.36	peak			
2	İ	144.7833	24.74	14.04	38.78	43.50	-4.72	peak			
3	İ	267.6500	30.35	9.90	40.25	46.00	-5.75	peak			
4		337.1667	21.86	17.89	39.75	46.00	-6.25	peak			
5		479.4333	15.48	20.91	36.39	46.00	-9.61	peak			
6		668.5833	10.45	24.35	34.80	46.00	-11.20	peak			

RESULT: PASS

Humidity: 52.9 %

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: AV Media Receiver

M/N: NA3610

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	ļ	131.8500	27.00	11.80	38.80	43.50	-4.70	peak			
2	ļ	169.0333	24.50	14.76	39.26	43.50	-4.24	peak			
3	*	267.6500	28.38	14.43	42.81	46.00	-3.19	peak			
4	ļ	330.7000	23.58	17.45	41.03	46.00	-4.97	peak			
5	İ	515.0000	20.57	21.54	42.11	46.00	-3.89	peak			
6		649.1833	15.09	23.83	38.92	46.00	-7.08	peak			

Power:

Distance:

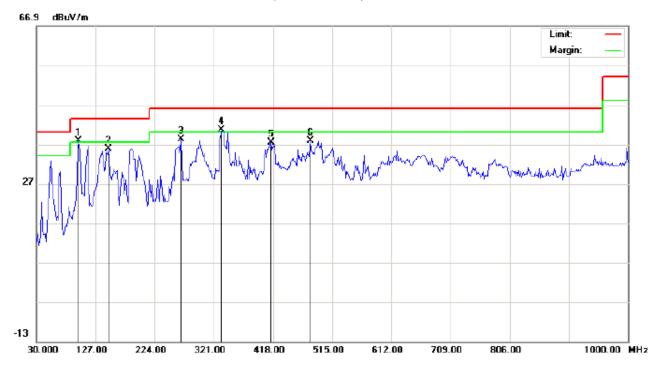
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: AV Media Receiver

M/N: NA3610

Mode: Middle Channel TX

Note:

Polarization: Horizontal Temperature: 23.6 Power: Humidity: 52.9 %

Distance:

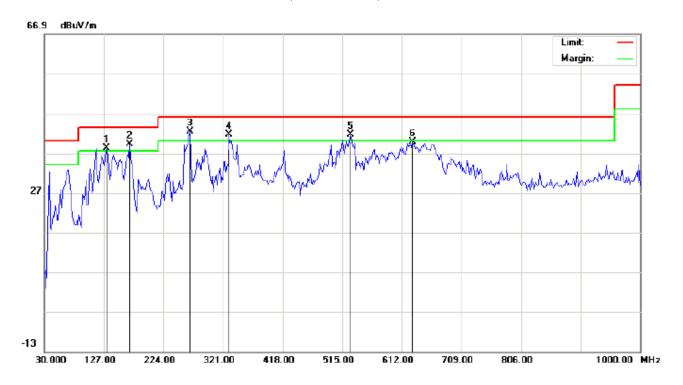
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	İ	99.5167	27.83	10.00	37.83	43.50	-5.67	peak			
2		148.0166	22.65	13.25	35.90	43.50	-7.60	peak			
3		267.6500	28.35	9.90	38.25	46.00	-7.75	peak			
4	*	333.9332	23.00	17.67	40.67	46.00	-5.33	peak			
5		414.7667	17.83	19.52	37.35	46.00	-8.65	peak			
6		479.4333	16.98	20.91	37.89	46.00	-8.11	peak			

Temperature: 23.6

Humidity: 52.9 %

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RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: AV Media Receiver

M/N: NA3610

Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	İ	131.8500	26.50	11.80	38.30	43.50	-5.20	peak			
2	İ	169.0333	24.50	14.76	39.26	43.50	-4.24	peak			
3	*	267.6500	27.88	14.43	42.31	46.00	-3.69	peak			
4	ļ	330.7000	24.08	17.45	41.53	46.00	-4.47	peak			
5	İ	527.9333	19.66	21.88	41.54	46.00	-4.46	peak			
6		629.7833	16.41	23.40	39.81	46.00	-6.19	peak			

Polarization:

Power:

Distance:

Vertical

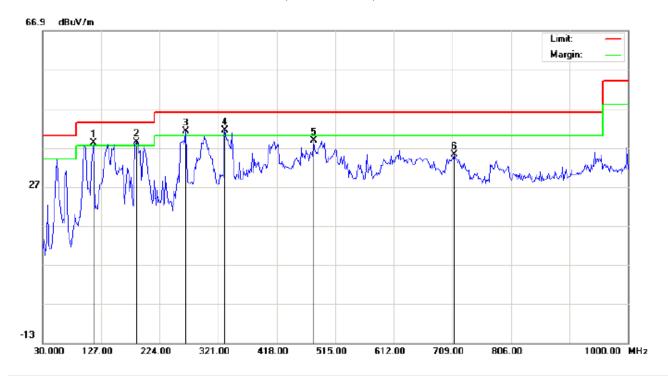
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: AV Media Receiver

M/N: NA3610

Mode: High Channel TX

Note:

Polarization: Horizontal Temperature: 23.6 Power: Humidity: 52.9 %

Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	į	114.0667	30.91	7.23	38.14	43.50	-5.36	peak			
2	İ	185.2000	27.08	11.31	38.39	43.50	-5.11	peak			
3	į	267.6500	31.35	9.90	41.25	46.00	-4.75	peak			
4	*	332.3167	23.76	17.56	41.32	46.00	-4.68	peak			
5		479.4333	17.98	20.91	38.89	46.00	-7.11	peak			
6		712.2333	9.75	25.54	35.29	46.00	-10.71	peak		·	

Temperature: 23.6

Humidity: 52.9 %

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



Polarization: Vertical

Site: site #1 Limit: FCC Class B 3M Radiation

EUT: AV Media Receiver

M/N: NA3610

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	İ	143.1667	24.60	15.22	39.82	43.50	-3.68	peak			
2	*	169.0333	25.50	14.76	40.26	43.50	-3.24	peak			
3	ļ	267.6500	27.38	14.43	41.81	46.00	-4.19	peak			
4	İ	343.6333	22.14	18.32	40.46	46.00	-5.54	peak			
5	İ	515.0000	20.07	21.54	41.61	46.00	-4.39	peak			
6	İ	629.7833	17.91	23.40	41.31	46.00	-4.69	peak			

Power:

Distance:

RESULT: PASS

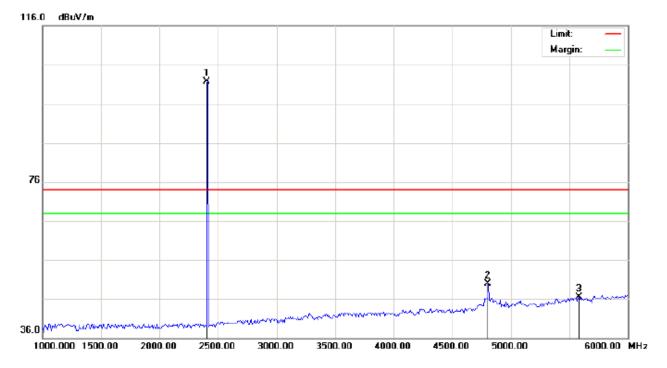
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHz

RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

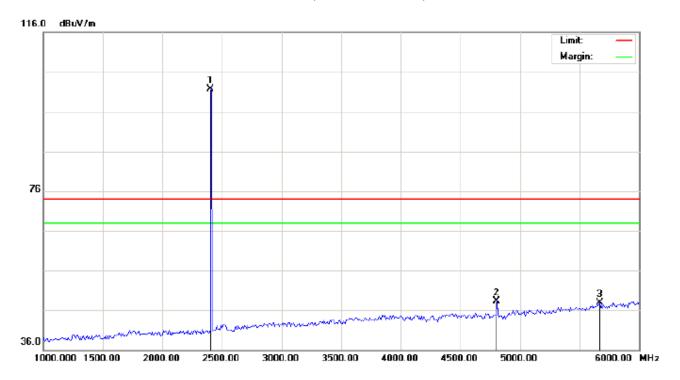
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2402.000	91.33	10.32	101.65	74.00	27.65	peak			
2		4804.000	42.21	7.69	49.90	74.00	-24.10	peak			
3		5583.333	48.21	-1.77	46.44	74.00	-27.56	peak			

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-LOW CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

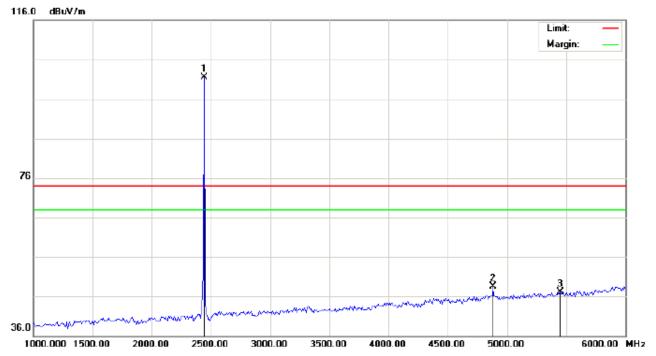
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2402.000	91.44	10.32	101.76	74.00	27.76	peak			
2		4804.000	40.55	7.69	48.24	74.00	-25.76	peak			
3		5666.667	49.62	-1.73	47.89	74.00	-26.11	peak			

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

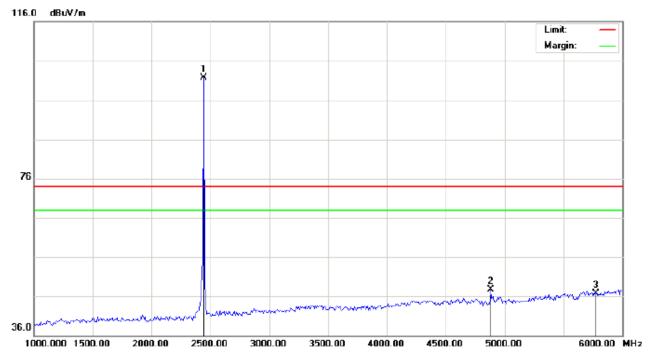
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2441.000	91.23	10.36	101.59	74.00	27.59	peak			
2		4882.000	40.66	7.89	48.55	74.00	-25.45	peak			
3		5450.000	47.86	-0.81	47.05	74.00	-26.95	peak			

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics) - MIDDLE CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

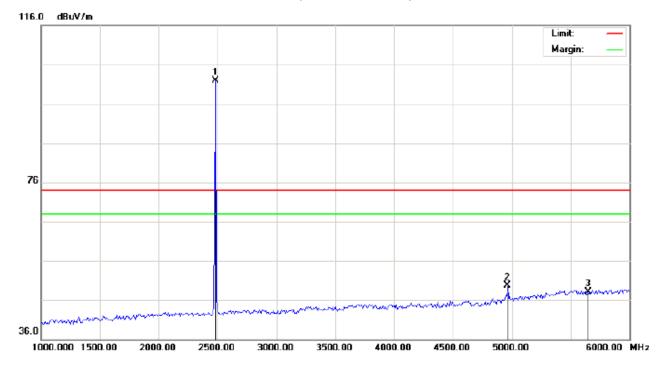
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	2441.000	91.39	10.36	101.75	74.00	27.75	peak			
2		4882.000	39.89	7.89	47.78	74.00	-26.22	peak			
3		5775.000	48.45	-1.68	46.77	74.00	-27.23	peak			

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

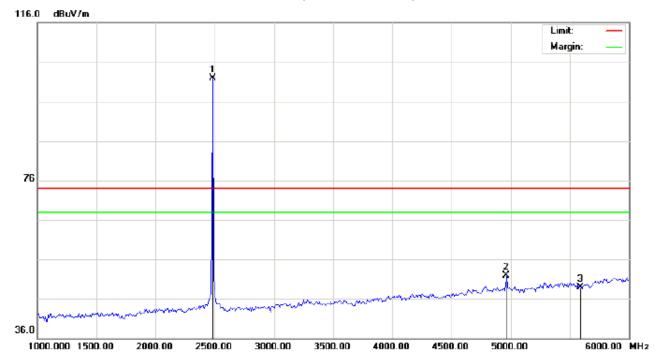
Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	91.43	10.41	101.84	74.00	27.84	peak			
2		4960.000	41.60	8.09	49.69	74.00	-24.31	peak			
3		5650.000	49.89	-1.74	48.15	74.00	-25.85	peak			

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	91.47	10.41	101.88	74.00	27.88	peak			
2		4960.000	43.91	8.09	52.00	74.00	-22.00	peak			
3		5591.667	50.77	-1.77	49.00	74.00	-25.00	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

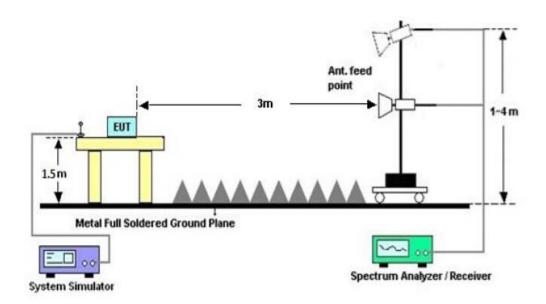
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12. BAND EDGE EMISSION

12.1. 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>=100kHz, VBW>=3*RBW, Center frequency =Operation frequency
- 3. The band edges was measured and recorded.

12.2. TEST SET-UP

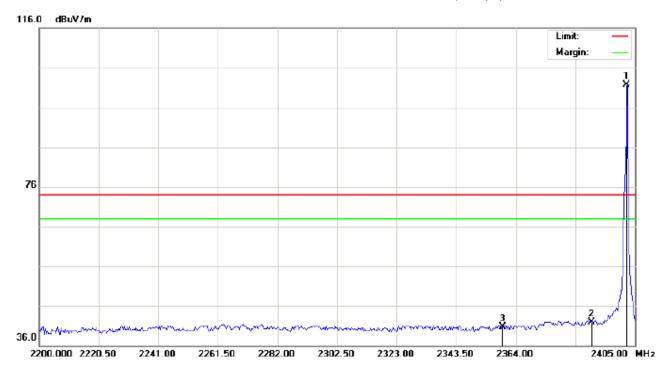


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12.3. TEST RESULT

(Worst Modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver

M/N: NA3610

Mode: Low Channel TX

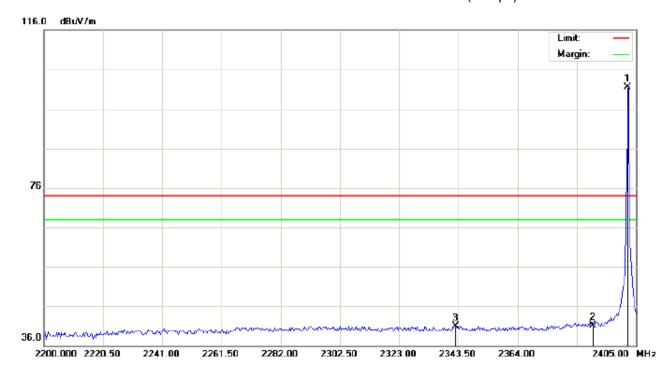
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2402.000	91.41	10.32	101.73	74.00	27.73	peak			
2		2390.000	31.62	10.31	41.93	74.00	-32.07	peak			
3		2359.558	30.52	10.28	40.80	74.00	-33.20	peak			

Distance:

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

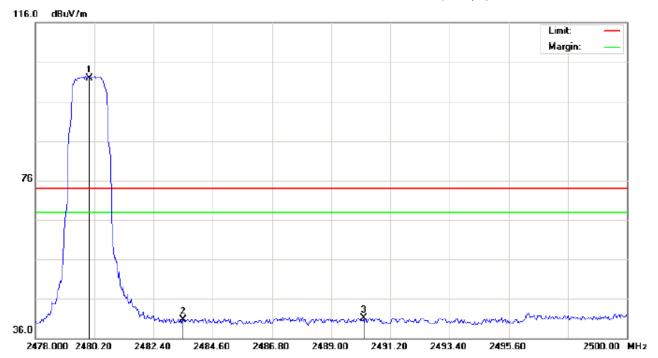
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2402.000	91.26	10.32	101.58	74.00	27.58	peak			
2		2390.000	30.85	10.31	41.16	74.00	-32.84	peak			
3		2342.475	30.69	10.26	40.95	74.00	-33.05	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver

M/N: NA3610

Mode: High Channel TX

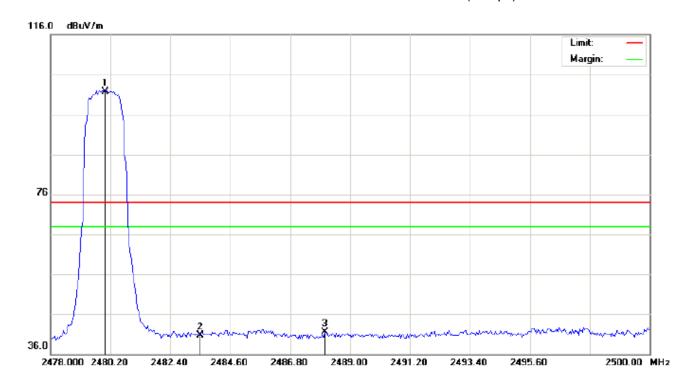
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	91.46	10.41	101.87	74.00	27.87	peak			
2		2483.500	30.25	10.41	40.66	74.00	-33.34	peak			
3		2490.210	30.67	10.42	41.09	74.00	-32.91	peak			

Distance:

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Vertical



Site: site #1 Polarization: Vertical Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHz(PK) Power: Humidity: 60 %

EUT: AV Media Receiver Distance:

M/N: NA3610

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	91.35	10.41	101.76	74.00	27.76	peak			
2		2483.500	30.37	10.41	40.78	74.00	-33.22	peak			
3		2488.083	31.04	10.42	41.46	74.00	-32.54	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. Hopping off and Hopping on have been tested and only worst case recorded

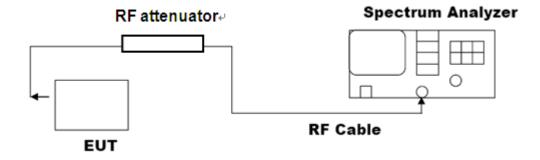
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13. NUMBER OF HOPPING FREQUENCY

13.1. 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>=1%span, VBW>=RBW.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

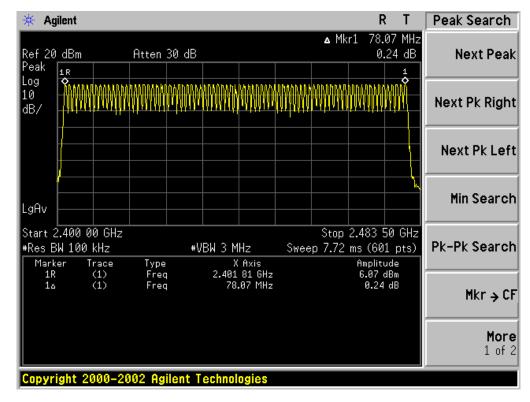


13.3. LIMITS AND MEASUREMENT RESULT

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

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TEST PLOT FOR NO. OF TOTAL CHANNELS



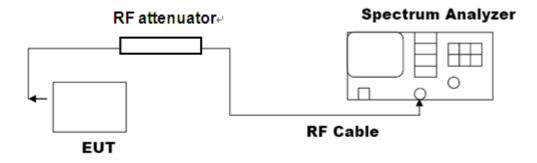
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14. TIME OF OCCUPANCY (DWELL TIME)

14.1. 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 Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



14.3. LIMITS AND MEASUREMENT RESULT

The Worst Case (3Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.865	31.6	305.60	400
Middle	2.901	31.6	309.44	400
High	2.865	31.6	305.60	400

Low Channel Time

2.865*(1600/6)/79*31.6=305.60ms

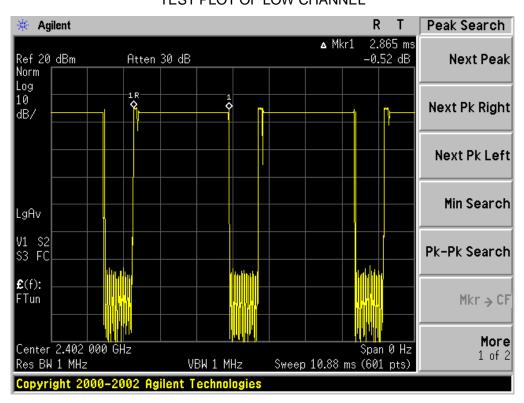
Middle Channel Time

2.901*(1600/6)/79*31.6=309.44ms

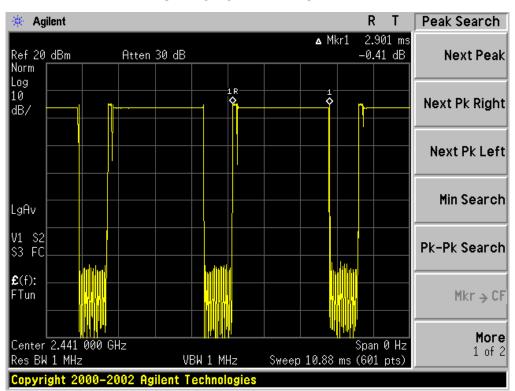
High Channel Time

2.865*(1600/6)/79*31.6=305.60ms

TEST PLOT OF LOW CHANNEL

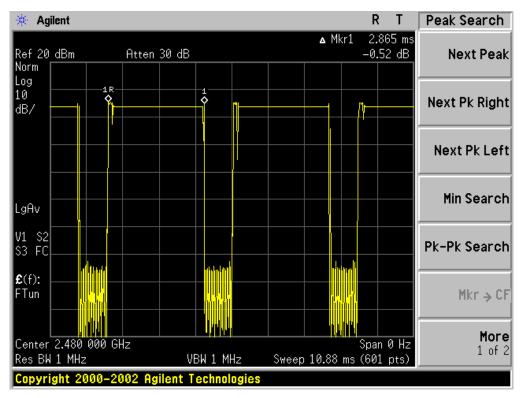


TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



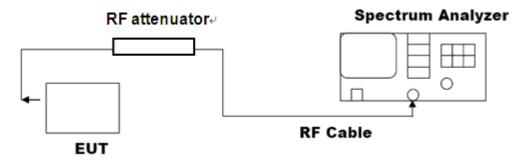
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15. FREQUENCY SEPARATION

15.1. 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 Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

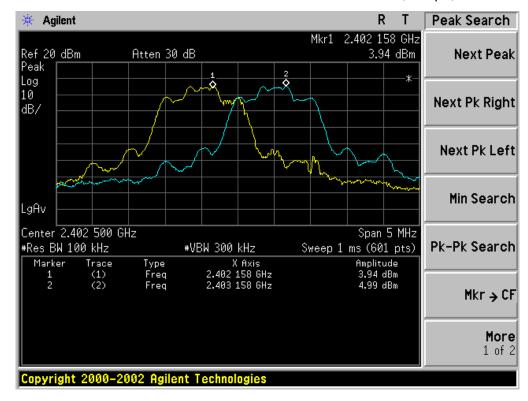


15.3. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT	
	KHz	KHz	Dana	
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass	

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TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



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16. LINE CONDUCTED EMISSION TEST

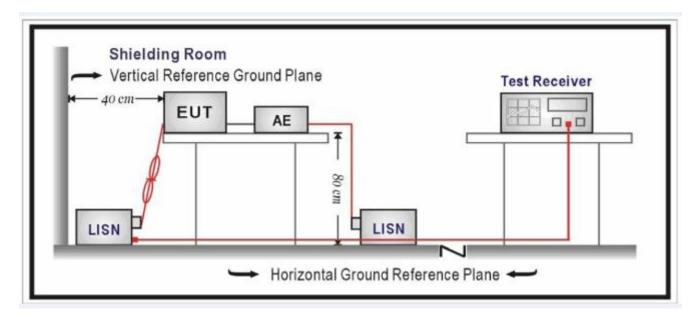
16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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16.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

16.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

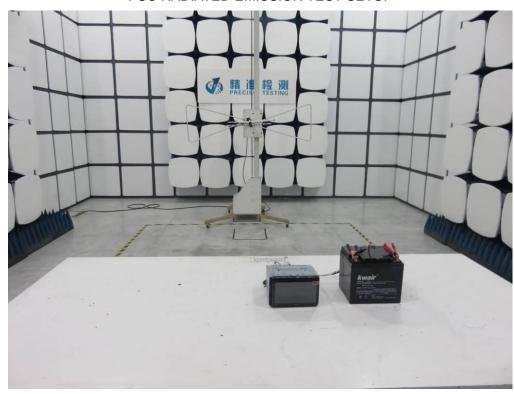
N/A

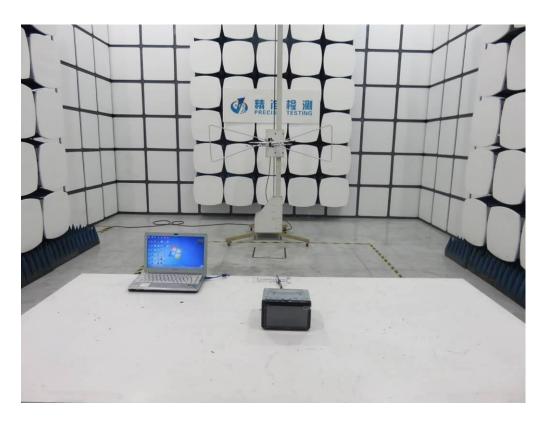
Note: The BT was supplied by DC source.

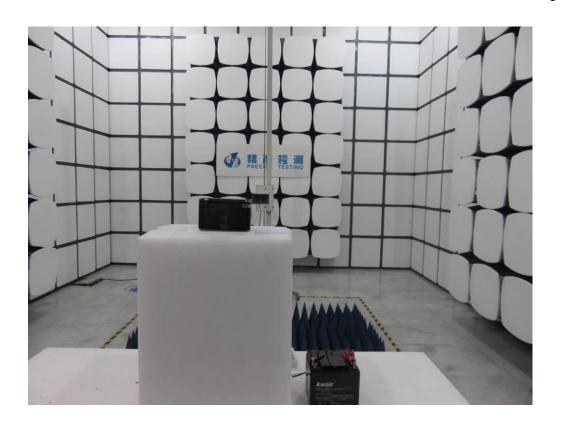
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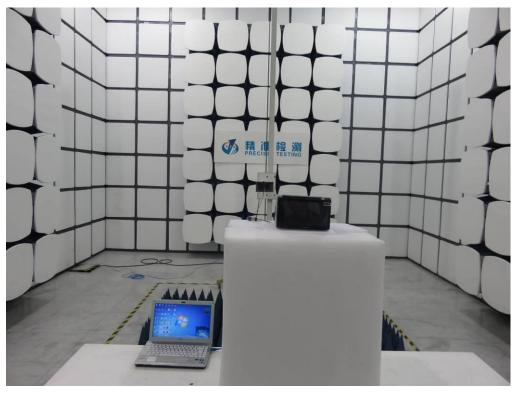
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP









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APPENDIX B: PHOTOGRAPHS OF EUT

WHOLE VIEW OF EUT



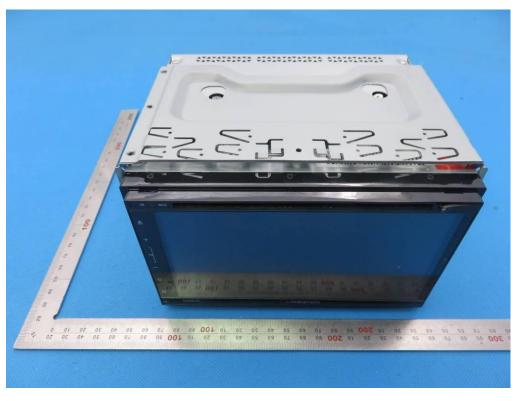
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT

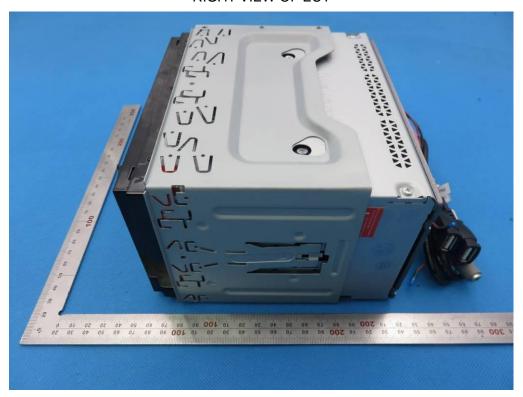


LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



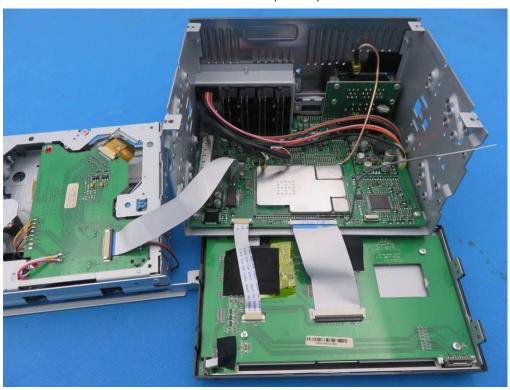
VIEW OF EUT (PORT)



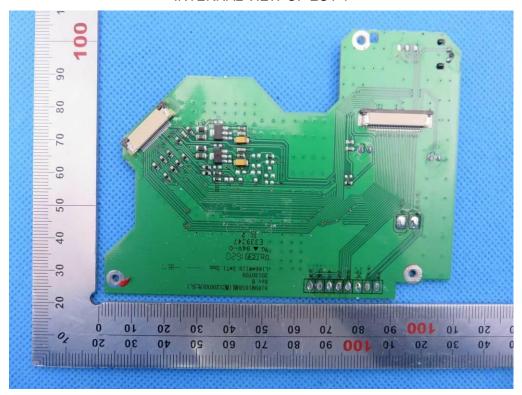
VIEW OF EUT (OPEN)-1



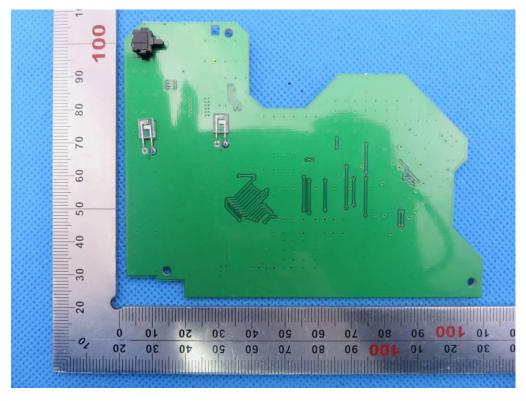
VIEW OF EUT (OPEN)-2



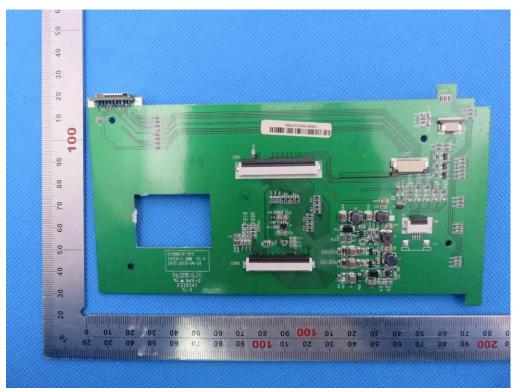
INTERNAL VIEW OF EUT-1



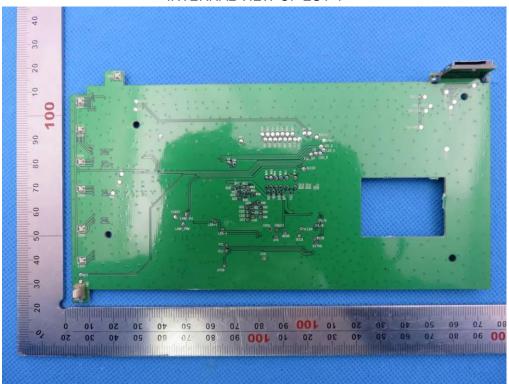
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

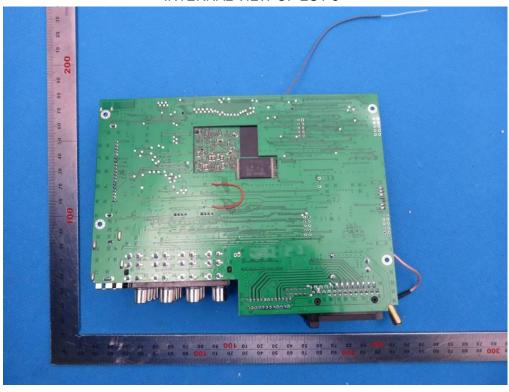


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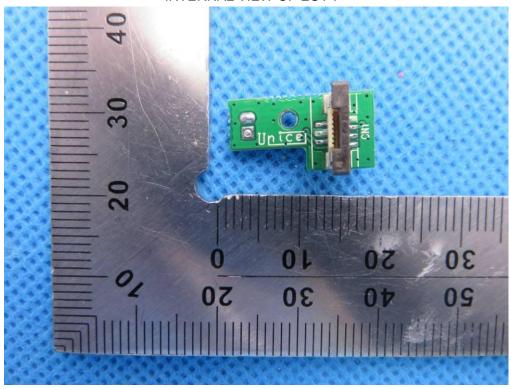
INTERNAL VIEW OF EUT-5



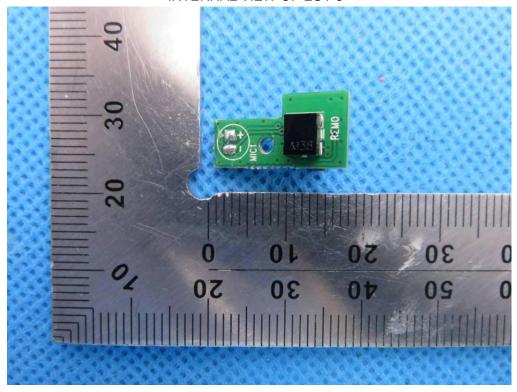
INTERNAL VIEW OF EUT-6



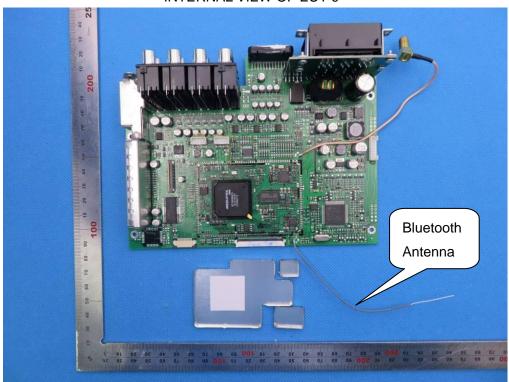
INTERNAL VIEW OF EUT-7



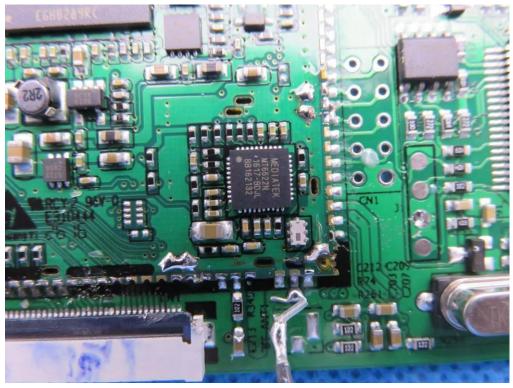
INTERNAL VIEW OF EUT-8



INTERNAL VIEW OF EUT-9



INTERNAL VIEW OF EUT-10



----END OF REPORT----