

APPLICATION FOR CERTIFICATION

On Behalf of

LG Electronics Inc.

Wireless DVD Receiver

Model No. : (1)HW904PA (2)HW964TZ

Brand: LG

FCC ID : BEJ9QK-HW904PA

Prepared for : LG Electronics Inc.

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TEST REPORT CERTIFICATION

Applicant	:	LG Electronics Inc.	
Manufacturer #1	:	LG Electronics Inc.	
Manufacturer #2	:	LG Electronics (Huizhou) Inc. Huitai Factory	
Manufacturer #3	:	SHEN ZHEN KWANG SUNG Electronics H.K. Co., Ltd.	
Manufacturer #4	:	PT. LG Electronics Indonesia (Factory 1)	
EUT Description	:	Wireless DVD Receiver	
FCC ID	:	BEJ9QK-HW904PA	
	(A) Model No.	:	(1)HW904PA (2)HW964TZ
	(B) Serial No.	:	N/A
	(C) Brand	:	LG
	(D) Power Supply	:	AC 120V~ 60Hz
	(E) Test Voltage	:	AC 120V/60Hz

Measurement Procedure Used:

FCC Public Notice DA 00-705 Released March 30, 2000
FCC RULES AND REGULATIONS PART 15 SUBPART C, July 2008
AND ANSI C63.4/2003

(Receive Function with FCC CFR 47 Part 15B, §15.107 and §15.109)
(Transmit Function with FCC CFR 47 Part 15C, §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart B and C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test : Dec. 01 ~ 12, 2008 Date of Report : Dec. 10, 2008

Producer : Tina Huang
(Tina Huang/Administrator)

Preview : Ben Cheng
(Ben Cheng/Manager)

Signatory : Leon Liu
(Leon Liu/Deputy General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Wireless DVD Receiver

Model Number : (1)HW904PA (2)HW964TZ

① The two models have transmit and receive function.

②The models HW904 and HW964 difference are following list and other internal board 、circuit and RF module are the same.

Item \ Model	HW904PA	HW964TZ
Appearance	Different	
Front Board	Different	
Tack-key Board	Different	
Power-key board	Different	
I-POD Docking	Support	Not Support

③ The Wireless DVD receiver include both transmitter (M/N HW904PA/HW964TZ) receiver (M/N W94-R) and these device are all the same RF module

④ The receiver (M/N W94-R) is applicable to both M/N HW904PA and M/N HW964TZ.

FCC ID : BEJ9QK-HW904PA

Brand Name : LG

Applicant : LG Electronics Inc.
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Manufacturer #1 : LG Electronics Inc.
19-1, Cheongho-Ri, Jinwuy-Myun, Pyungtaek-City, Kyungki-Do, 451-713 Korea

Manufacturer #2 : LG Electronics (Huizhou) Inc. Huitai Factory
No. 1 Xingda Road, Huitai Industrial Park of Zhongkai Development Zone Huizhou City, Guangdong, China

Manufacturer #3 : SHEN ZHEN KWANG SUNG Electronics
H.K. Co., Ltd.
Shi Tou Shan Industrial Zone, Zhuan Chang Village, Shiyan Town, Baoan District, Shenzhen City, Guang Dong Province, China

Manufacturer #4 : PT LG Electronics Indonesia(Factory 1)
 Block G-MM 2100 Industrial Town Cikarang
 Barat_Bekasi 17520, west Java Indonesia

TX/RX Module : Eleven Engineering Incorporatec,
 M/N WHAM2-D2

Fundamental Range : 2400MHz ~ 2483.5MHz

Channel Number : 20

Radio Technology : FHSS Modulation

Antenna Gain : 0.94dBi

Date of Receipt of Sample : Dec. 01, 2008

Date of Test : Dec. 01 ~ 12, 2008

List of Interface Ports of EUT
 Model HW904PA/HW964TZ
 Front View

One USB Port
 One MIC Ports
 One Audio Port
 One IPOD Docking (Only For Model HW904)

Back View

One Set Speaker Ports
 (Rear L/R, Front L/R, Center, SUB Woofer)
 One FM Port
 One AM Port
 One Optical Port
 One EURO AV Port
 One HDMI Input Port
 One Set Component Video (P_R, P_B, Y) Output Ports
 One AUX Input Port
 One Monitor Input Port
 One HDMI Output Ports
 One AC Power Cord

Model W94-R
 Back View

One Set Speaker Ports (+L/R, -L/R)

1.2. Tested Supporting System Details

1.2.1. LCD TV (LINK TO EUT)

Model Number	:	VIZIO VX20L HDTV
Serial Number	:	LSAAAAG4719229
FCC ID	:	By DoC
Brand	:	VIZIO
Component Cable	:	Non-Shielded, Detachable, 1.8m
Video Cable	:	Non-Shielded, Detachable, 1.8m
HDMI Cable	:	Shielded, Detachable, 1.8m
S-Video Cable	:	Non-Shielded, Detachable, 1.8m
Power Cable	:	Non-Shielded, Detachable, 1.8m

1.2.2. MINIDISC DECK (LINK TO EUT)

Model Number	:	MDS-S39
Serial Number	:	3357518
FCC ID	:	By DoC
Manufacturer	:	SONY
Optical Cable	:	Non-Shielded, Detachable, 1.8m
Power Cable	:	Non-Shielded, Undetachable, 2.0m

1.2.3. HDD/DVD RECORDER (LINK TO EUT)

Model Number	:	DVR-550H-S
Serial Number	:	HBDL003262T
BSMI ID	:	R31271-ETC
Brand	:	Pioneer
HDMI Cable	:	Shielded, Detachable, 1.8m
Audio Cable	:	Non-Shielded, Detachable, 1.8m
Power Cable	:	Non-Shielded, Detachable, 1.5m

1.2.4. I-POD #1 (LINK TO EUT)

Model Number	:	A1204
Serial Number	:	4H722TA0VTE
FCC ID	:	By DoC
BSMI ID	:	R33057
Manufacturer	:	APPLE (Brand: APPLE)
USB Cable	:	Shielded, Undetachable, 1.0m

1.2.5. I-POD #2 (LINK TO EUT)

Model Number	:	A1099
Serial Number	:	JO5326ZSAZ
FCC ID	:	By DoC
BSMI ID	:	R33057
Manufacturer	:	APPLE (Brand: APPLE)

1.2.6. WALKMAN (LINK TO EUT)

Model Number : RQ-P35LT-K
 Serial Number : HA08473
 Manufacturer : PANASONIC
 Audio Cable : Non-Shielded, Detachable, 1.8m

1.2.7. MICROPHONE #1 (LINK TO EUT)

Model Number : DM-510
 Serial Number : N/A
 Manufacturer : KOKA
 Data Cable : Non-Shielded, Undetachable, 2.8m

1.2.8. MICROPHONE #2 (LINK TO EUT)

Model Number : DM-818
 Serial Number : N/A
 Manufacturer : TENLUX
 Data Cable : Non-Shielded, Detachable;2.2m

1.2.9. RECEIVER

Model Number : W94-R
 Serial Number : N/A
 Manufacturer : LG
 Power Cord : Non-Shielded, Undetachable, 1.8m (2 Pin)

1.2.10. SPEAKER #1 (LINK TO EUT)

Model Number : LHS-761AS
 Serial Number : 3850RMM681C
 Manufacturer : LG
 Impedance : 4Ω
 Max. Power : 200W
 Speaker Cable : Non-Shielded, Detachable, 4.0m

1.2.11. SPEAKER #2 (LINK TO EUT)

Model Number : LHS-761AS
 Serial Number : 3850RMM681C
 Manufacturer : LG
 Impedance : 4Ω
 Max. Power : 200W
 Speaker Cable : Non-Shielded, Detachable, 4.0m

1.2.12. SPEAKER #3 (LINK TO RECEIVER)

Model Number : LHS-761AS
 Serial Number : 3850RMM681C
 Manufacturer : LG
 Impedance : 4Ω
 Max. Power : 200W
 Speaker Cable : Non-Shielded, Detachable, 4.0m
 Add a ferrite core with speaker cable #4

1.2.13. SPEAKER #4 (LINK TO RECEIVER)

Model Number	:	LHS-761AS
Serial Number	:	3850RMM681C
Manufacturer	:	LG
Impedance	:	4Ω
Max. Power	:	200W
Speaker Cable	:	Non-Shielded, Detachable, 4.0m

1.2.14. SPEAKER #5 (LINK TO EUT)

Model Number	:	LHS-761AC
Serial Number	:	3850RMM680C
Manufacturer	:	LG
Impedance	:	4Ω
Max. Power	:	200W
Speaker Cable	:	Non-Shielded, Detachable, 4.0m

1.2.15. SPEAKER #6 (LINK TO EUT)

Model Number	:	LHS-T6540W
Serial Number	:	N/A
Manufacturer	:	LG
Impedance	:	4Ω
Max. Power	:	240W
Speaker Cable	:	Non-Shielded, Detachable, 4.0m

1.2.16. SCART CONNECTOR (LINK TO EUT)

S-Video Cable	:	Non-Shielded, Detachable, 1.8m
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1.2.17. FM ANTENNA CABLE

FM Antenna Cable	:	Non-Shielded, Detachable, 1.5m
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1.2.18. AM ANTENNA CABLE

AM Antenna Cable	:	Non-Shielded, Detachable, 1.5m
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1.3. Description of Test Facility

Name of Firm	:	AUDIX Technology Corporation EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan
Test Location & Facility (C2/R5/Semi-AC)	:	No. 2 Shielded Room No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan No. 5 Open Area Test Site No. 67-7, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan Federal Communication Commission Registration Number: 90992 Filing on July 31, 2007 Semi-Anechoic Chamber No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan Federal Communication Commission Registration Number: 90993 Filing on May 19, 2006
NVLAP Lab. Code	:	200077-0 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
20dB Bandwidth	± 0.2kHz
Carrier Frequency Separation	± 0.2kHz
Time Of Occupancy	± 0.03sec
Maximum peak Output power	± 0.52dBm
Emission Limitations	± 0.13dB
Band Edges	± 0.13dB

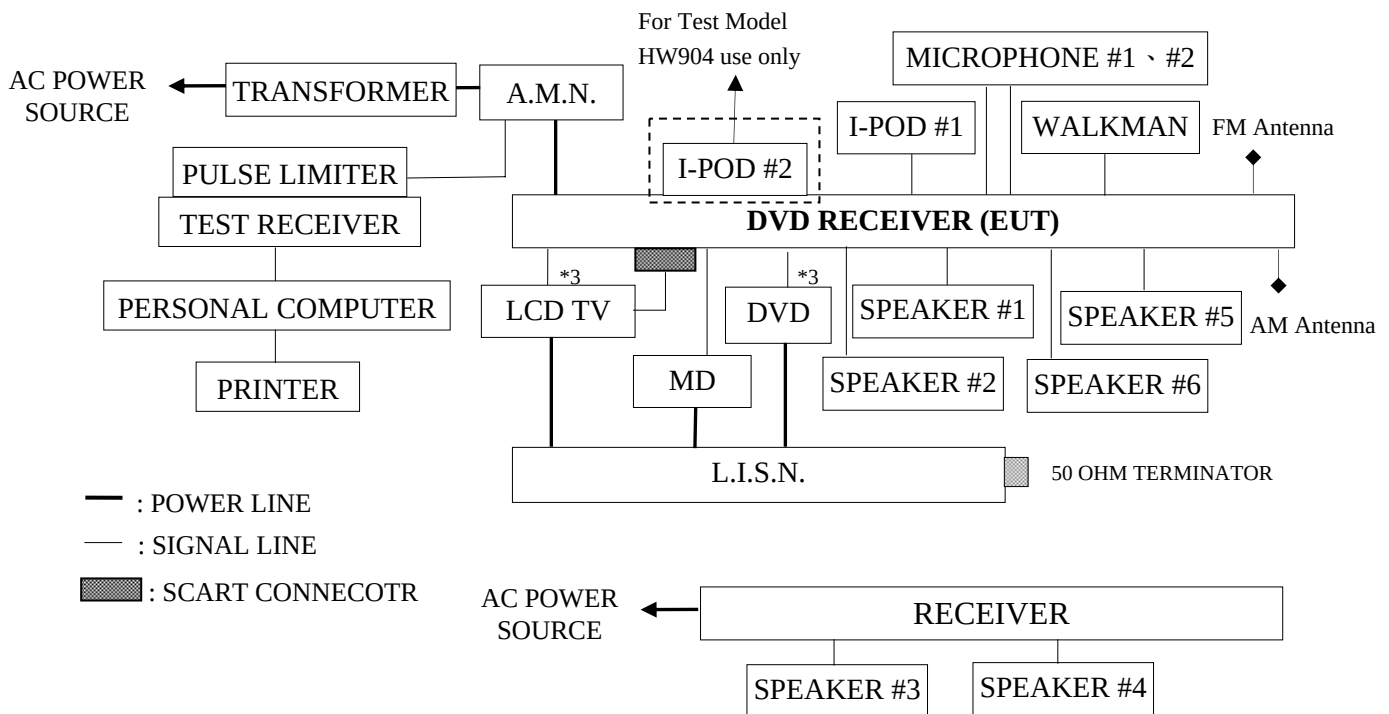
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment were used during the conducted measurement:
(No. 2 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100339	Mar. 21, 08'	Mar. 20, 09'
2.	A.M.N.	R & S	ESH2-Z5	890485/023	Jan. 24, 08'	Jan. 23, 09'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	Mar. 24, 08'	Mar. 23, 09'
4.	Pulse Limiter	R & S	ESH3-Z2	001	Feb. 22, 08'	Feb. 21, 09'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Set up the EUT and simulator as shown on 3.2.
- 2.4.2. To turn on the power of all equipment.
- 2.4.3. The DVD Receiver was playing DVD-Disk and sent the “Color Bar” image to the LCD TV via HDMI Input of DVD Receiver and sending sound to speakers through DVD Receiver’s speakers ports during all testing.
- 2.4.4. The Receiver was receiving sound signal from transmitter and sending to speakers during all testing.
- 2.4.5. The other peripheral devices were driven and operated in turn during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and it’s power adapter connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to FCC ANSI C63.4 and FCC Public Notice DA 00-705 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Conducted Emission Measurement Results

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

Two of EUTs with following test modes were performed during this section testing and all the test results are listed in next pages.

EUT: Wireless DVD Receiver M/N: (1)HW904PA (2)HW964TZ

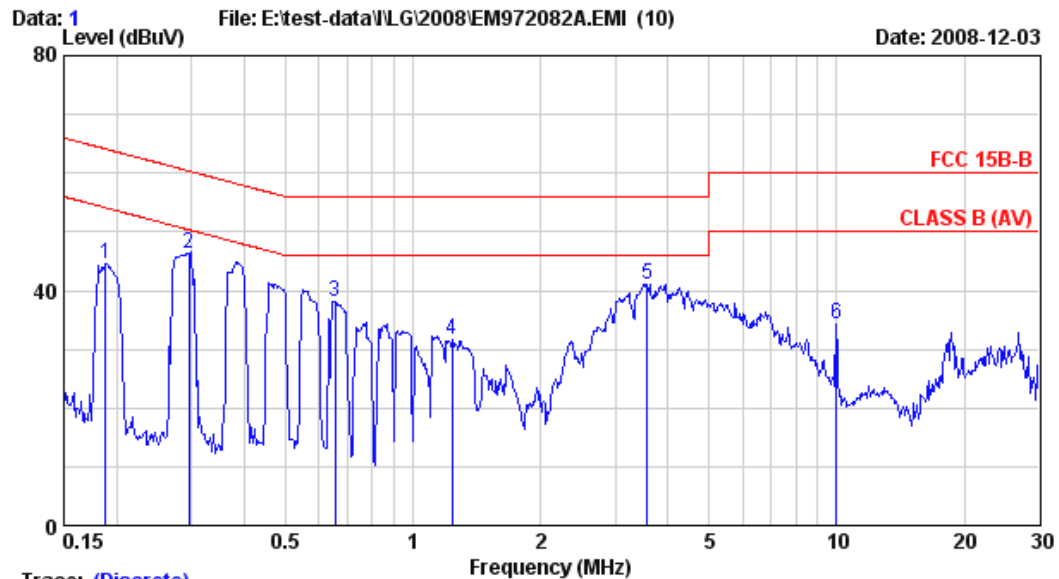
Test Date : Dec. 03, 2008 Temperature : 27°C Humidity : 63%

The details of test modes as follows:

No.	EUT	Test Mode (Operation of EUT)	Reference Test Data No.	
			Neutral	Line
1.	HW904PA	System (DVD Play + HDMI Output)	# 1	# 2
2.	HW964TZ	System (DVD Play + HDMI Output)	# 7	# 8



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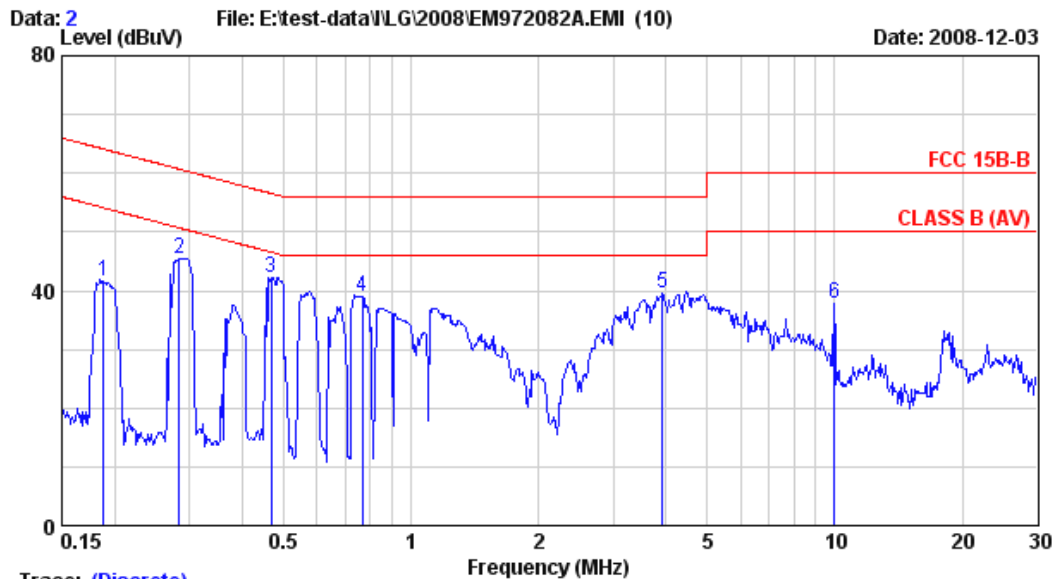
Site : No.2 Shielded room Data : 1
Condition : ESH2-Z5 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27°C, 63% / ESCS 30 Engineer: Albert_Liang
EUT : DVD Receiver M/N:HW904PA
Power Rating : 120Vac/60Hz
Test Mode : DVD play +HDMI output

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.188	0.10	0.25	44.31	44.66	64.11	19.44 QP
2	0.296	0.10	0.29	46.00	46.39	60.37	13.97 QP
3	0.654	0.15	0.36	37.56	38.08	56.00	17.92 QP
4	1.236	0.20	0.40	31.14	31.74	56.00	24.26 QP
5	3.565	0.20	0.40	40.53	41.13	56.00	14.87 QP
6	9.966	0.30	0.70	33.22	34.22	60.00	25.78 QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Trace: (Discrete)

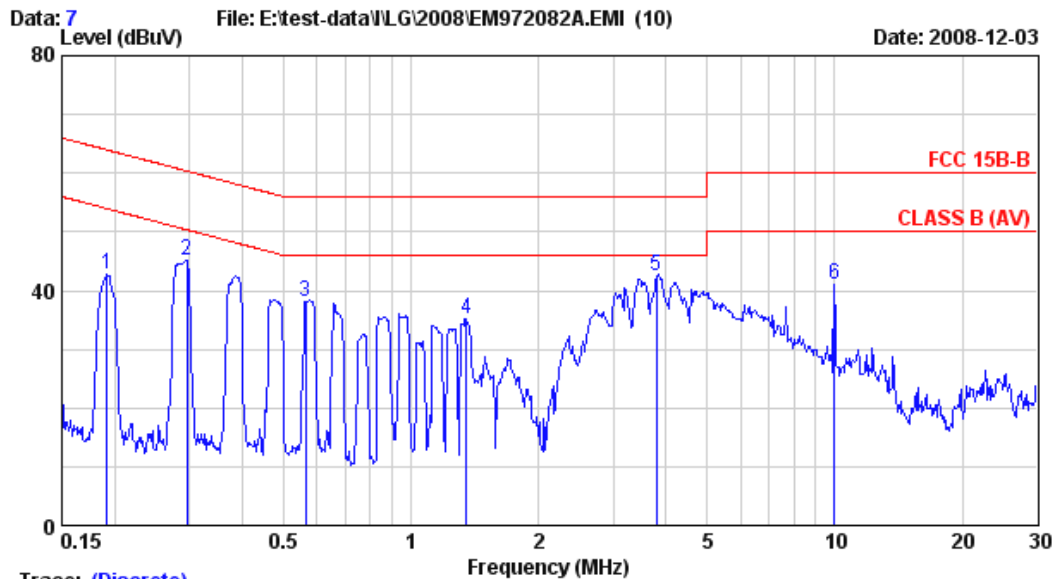
Site : No.2 Shielded room Data : 2
Condition : ESH2-Z5 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27°C, 63% / ESCS 30 Engineer: Albert_Liang
EUT : DVD Receiver M/N:HW904PA
Power Rating : 120Vac/60Hz
Test Mode : DVD play +HDMI output

		LISN	Cable	Emission				
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.188	0.10	0.25	41.22	41.57	64.11	22.53	QP
2	0.283	0.10	0.29	45.08	45.47	60.72	15.25	QP
3	0.469	0.12	0.33	41.78	42.23	56.54	14.31	QP
4	0.767	0.17	0.38	38.53	39.08	56.00	16.92	QP
5	3.922	0.20	0.40	38.99	39.59	56.00	16.41	QP
6	9.966	0.30	0.70	36.94	37.94	60.00	22.06	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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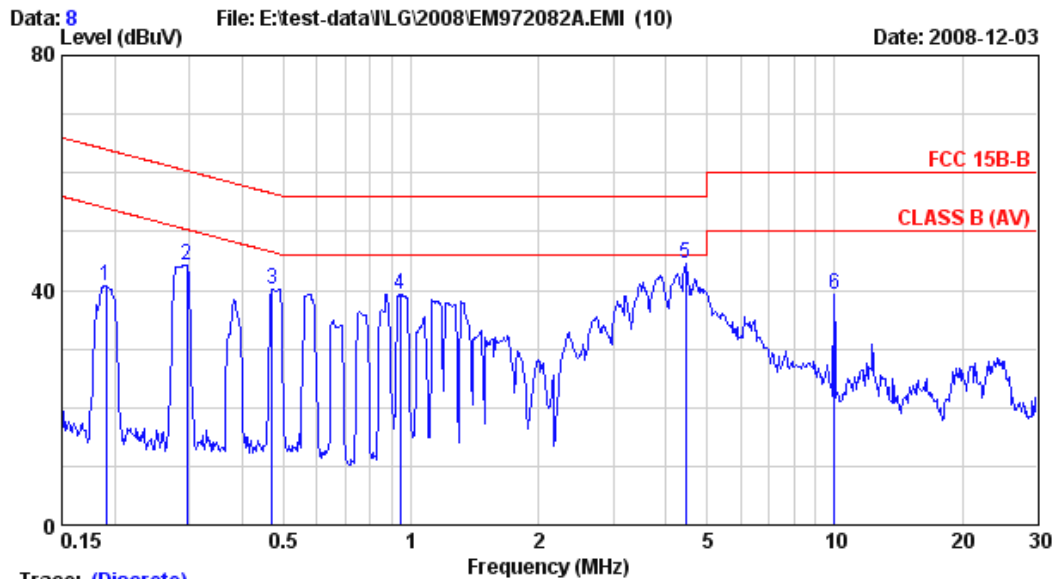
Site : No.2 Shielded room Data : 7
Condition : ESH2-Z5 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 27°C,63% / ESCS 30 Engineer: Albert_Liang
EUT : DVD Receiver M/N:HW964TZ
Power Rating : 120Vac/60Hz
Test Mode : DVD play +HDMI output

		LISN	Cable	Emission				
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.191	0.10	0.26	42.30	42.66	63.98	21.32	QP
2	0.296	0.10	0.29	44.71	45.10	60.37	15.26	QP
3	0.564	0.14	0.35	37.73	38.22	56.00	17.78	QP
4	1.352	0.20	0.40	34.56	35.16	56.00	20.84	QP
5	3.799	0.20	0.40	41.83	42.43	56.00	13.57	QP
6	9.966	0.30	0.70	40.06	41.06	60.00	18.94	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: (Discrete)

Site : No.2 Shielded room Data : 8
Condition : ESH2-Z5 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 27°C, 63% / ESCS 30 Engineer: Albert_Liang
EUT : DVD Receiver M/N:HW964TZ
Power Rating : 120Vac/60Hz
Test Mode : DVD play +HDMI output

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission		Limits (dBuV)	Margin (dB)	Remark
			Reading (dBuV)	Level (dBuV)			
1	0.190	0.10	40.34	40.70	64.02	23.32	QP
2	0.296	0.10	43.99	44.38	60.37	15.98	QP
3	0.471	0.12	39.68	40.13	56.49	16.36	QP
4	0.943	0.19	38.58	39.17	56.00	16.83	QP
5	4.454	0.21	43.77	44.42	56.00	11.58	QP
6	9.966	0.30	38.35	39.35	60.00	20.65	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency 30MHz~1000MHz (at No. 5 Open Area Test Site)-For System mode Use only

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8595E	3829A03489	Aug. 10, 08'	Aug. 09, 09'
2.	Test Receiver	R & S	ESCI	100555	May 20, 08'	May 19, 09'
3.	Amplifier	HP	8447D	2944A07185	N/A	N/A
4.	Biconical Antenna	CHASE	VBA6106A	1262	Apr. 10, 08'	Apr. 09, 09'
5.	Log Periodic Antenna	Chase	UPA6109	1061	Apr. 10, 08'	Apr. 09, 09'

3.1.2. For Frequency 30MHz~1000MHz (at Semi-Anechoic Chamber)-For Transmitting and Receiving modes Use only

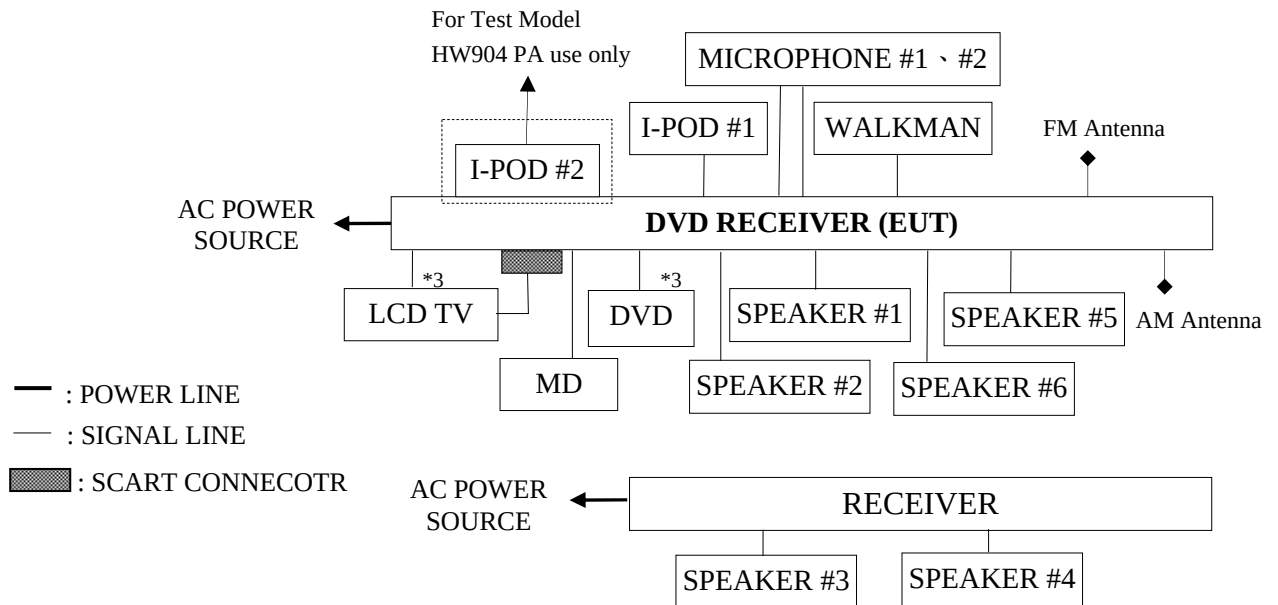
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jul. 03, 08'	Jul. 02, 09'
2.	Test Receiver	R & S	ESCS30	100265	Aug. 28, 08'	Aug. 27, 09'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 19, 08'	Feb. 18, 09'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Apr. 10, 08'	Apr. 09, 09'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Apr. 10, 08'	Apr. 09, 09'

3.1.3. For Frequency Above 1GHz (at Semi-Anechoic Chamber) -For Transmitting and Receiving modes Use only

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	8593EM	3826A00272	Jul. 03, 08'	Jul. 02, 09'
2.	Amplifier	HP	8449B	3008A00529	Jan. 09, 08'	Jan. 08, 09'
3.	2.4GHz Notch Filter	EWT	EWT-14-0070	G2	Dec. 07, 07'	Dec. 06, 08'
4.	Horn Antenna	EMCO	3115	9112-3775	May 20, 08'	May 19, 09'
5.	Horn Antenna	EMCO	3116	2653	Oct. 03, 08'	Oct. 02, 09'
6.	High Pass Filter	HP	84300-80038	005	Jan. 08, 08'	Jan. 07, 09'

3.2. Test Setup

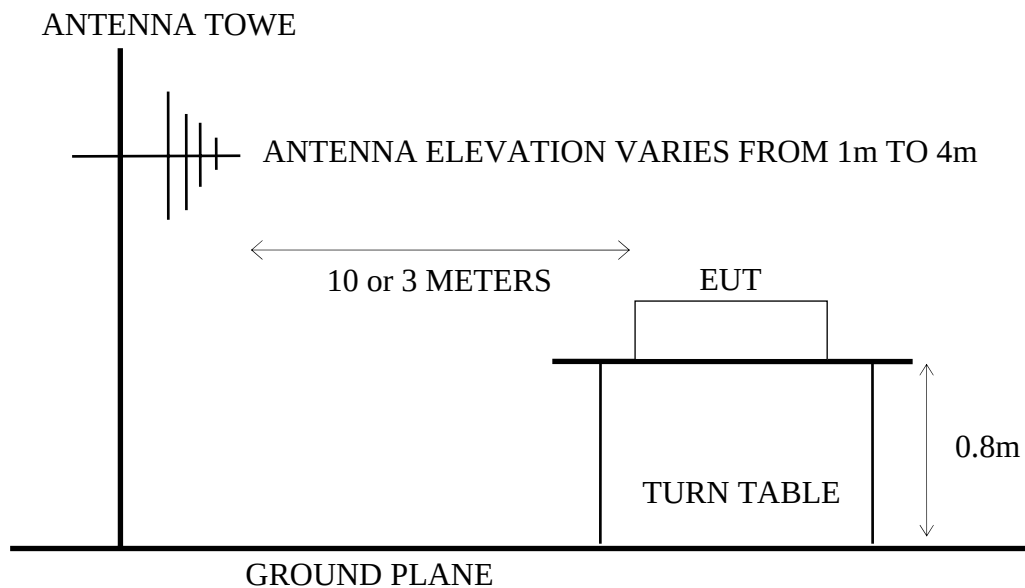
3.2.1. For System mode



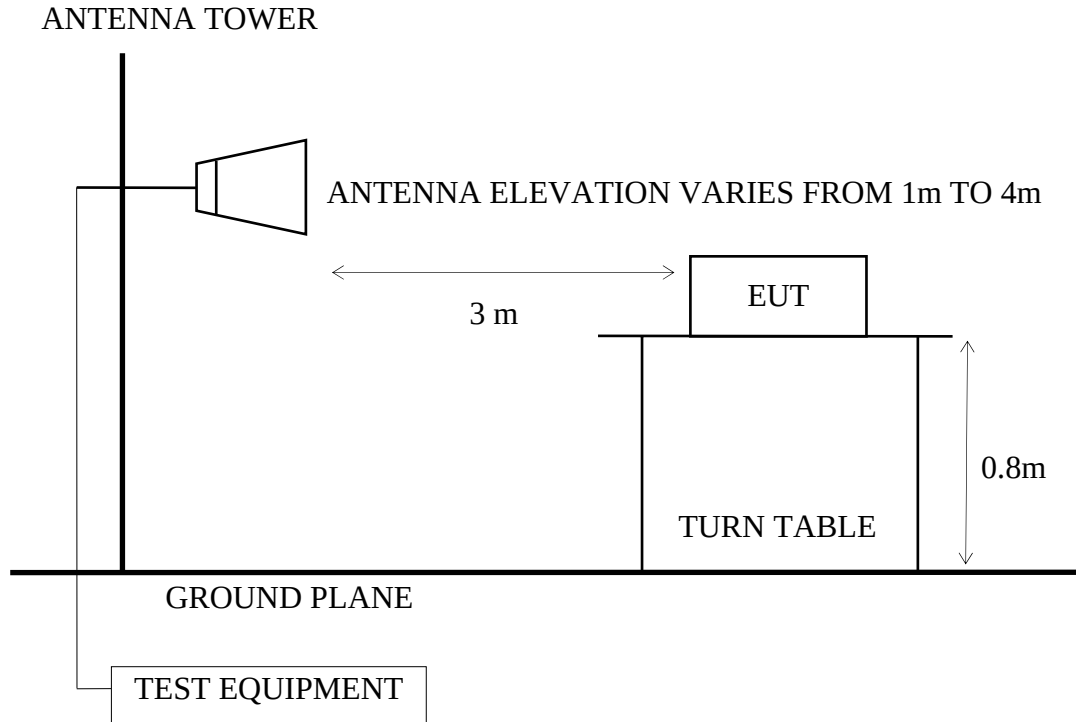
3.2.2. For Transmitting and Receiving modes



3.2.3. Open Area Test Site (10m) or Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.4. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits

3.3.1. §15.109/CISPR 22, Class B Radiated Emission Limits

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37

- Note :
- (1) The tighter limit applies at the edge between two frequency bands.
 - (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.

3.3.2. §15.209/§15.109 Class B Radiated Emission Limits

Frequency MHz	Distance Meters	Field Strengths Limits	
		μ V/m	dB μ V/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

- Remark :
- (1) Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

Test Mode: System

- 3.4.1. Set up the EUT and simulator as shown on 3.2.1.
- 3.4.2. To turn on the power of all equipment.
- 3.4.3. DVD Play+HDMI Output Mode: The DVD Receiver was playing DVD-Disk and sent the “Color Bar” image to the LCD TV via HDMI Input of DVD Receiver and sending sound to speakers through DVD Receiver’s speakers ports during all testing.
- 3.4.4. USB (Play Music) Mode: The I-POD was playing music and sending sound to speaker through DVD Receiver’s USB and speakers ports during all testing.
- 3.4.5. I-POD Mode: The DVD Receiver was reading data from I-POD and then writing data into I-POD through DVD Receiver’s I-POD docking. (Only For Test Model HW904)
- 3.4.6. The Receiver was receiving sound signal from transmitter and sending to speakers during all testing.
- 3.4.7. The other peripheral devices were driven and operated in turn during all testing.

Remark: Due to three test modes, select worst test mode “DVD Play+HDMI Output” and data reported in this test report.

Test Mode: Transmitter & Receiver

- 3.4.8. Set up the EUT (Wireless DVD Receiver) and simulator as shown on 3.2.2
- 3.4.9. To turn on the power of all equipment.
- 3.4.10. The EUT (Wireless DVD Receiver) was operated on normal function (transmitting and receiving) during all testing.

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. For 30MHz to 1000MHz frequency ranges, EUT was set 3 or 10 meters and for above 1GHz frequency ranges, EUT was set at 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antennas (bilog antenna or broadband and log periodical or horn antenna) were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4 and FCC Public Notice DA 00-705 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked.

3.6. Radiated Emission Measurement Results

PASSED. All the emissions not reported below are too low against the official limits.

EUT : Wireless DVD Receiver
(2)HW964TZ

M/N : (1)HW904PA

Test Date : Dec. 12, 2007 Temperature : 23°C Humidity : 61%

Test Date : Dec. 01, 2007 Temperature : 22°C Humidity : 48%

For Frequency Range 30MHz~1000MHz:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

No.	Test Model	Test Unit	Test Mode and Frequency		Reference Test Data No.	
					Horizontal	Vertical
1.	HW904PA	System	DVD Play + HDMI Out		# 2	# 1
2.		Transmitter	Transmitting	2403.328MHz (CH0)	# 12	# 11
3.				2442.240MHz (CH19)	# 11	# 12
4.				2479.104MHz (CH37)	# 12	# 11
5.		Receiver	Receiving	2442.240MHz (CH19)	# 9	# 10
6.	HW964TZ	System	DVD Play + HDMI Out		# 3	# 4
7.		Transmitter	Transmitting	2403.328MHz (CH0)	# 9	# 10
8.				2442.240MHz (CH19)	# 12	# 11
9.				2479.104MHz (CH37)	# 11	# 12
10.		Receiver	Receiving	2442.240MHz (CH19)	# 10	# 9

For Frequency above 1GHz:

Test Date : Dec. 01, 2007 Temperature : 22°C Humidity : 48%

The EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

No.	Test Mode and Frequency	
1.	Transmitting	2403.328MHz (CH0)
2.		2442.240MHz (CH19)
3.		2479.104MHz (CH37)
4.	Receiving	2442.240MHz (CH19)

The average measurement of frequency range from 10000MHz to 25000MHz is measured at 1m distance and doesn't find any spurious emission in this frequency range. So just provide the peak measurement results.

For Restricted Bands:

Test Date : Dec. 01, 2007 Temperature : 22°C Humidity : 48%

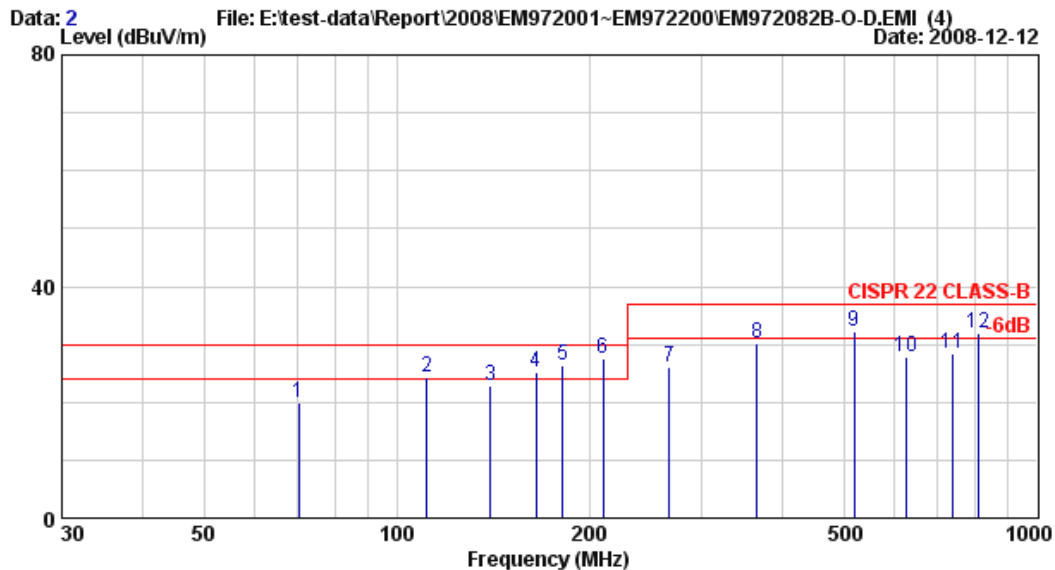
The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

No.	Test Model	Test Mode and Frequency		Reference Test Data No.	
				Horizontal	Vertical
1.	HW904PA	Transmitting	2403.328MHz (CH0)	# 1, # 4	# 2 , # 3
2.			2479.104MHz (CH37)	# 5, # 8	# 6, # 7
3.	HW964TZ	Transmitting	2403.328MHz (CH0)	# 3, # 2	# 4 , # 1
4.			2479.104MHz (CH37)	# 6, # 7	# 5, # 8

3.6.1. 30MHz~ 1000MHz Frequency Range Measurement Result



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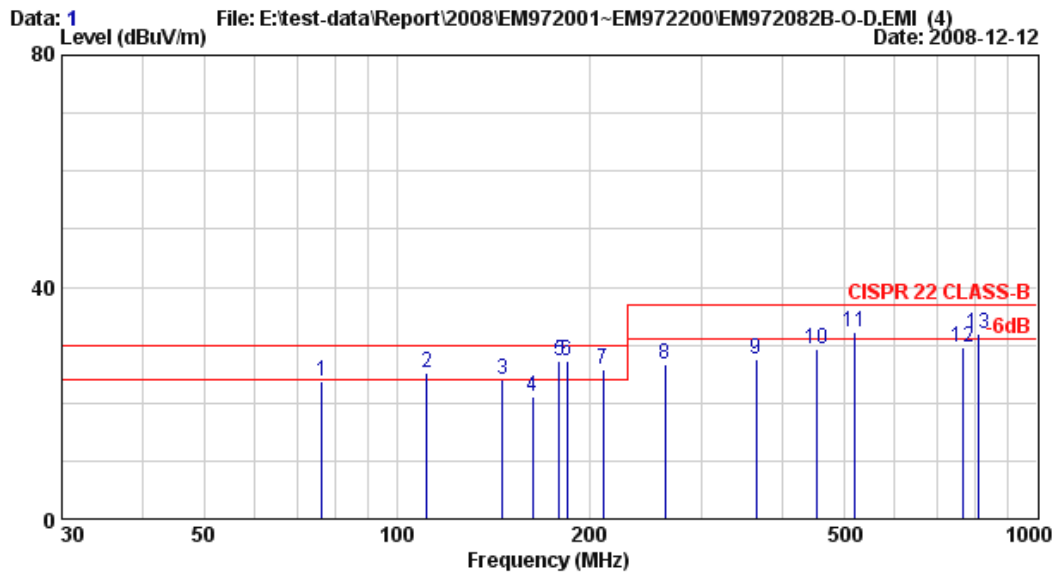
Site no. : NO.5 OPEN SITE Data no. : 2
 Dis. / Ant. : 10m VBA6106A/UPA6109(08) Ant. pol. : HORIZONTAL
 Limit : CISPR 22 CLASS-B
 Env. / Ins. : 23°C/61% ESCI(555) Engineer : TIM
 EUT : DVD Receiver M/N:HW904PA
 Power Rating : 120Vac / 60Hz
 Test Mode : DVD Play+HDMI Output

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	70.363	12.37	1.30	6.31	19.98	30.00	10.02	
2	111.360	18.42	1.51	4.32	24.25	30.00	5.75	
3	140.143	19.74	1.74	1.43	22.91	30.00	7.09	
4	165.254	20.66	1.90	2.55	25.12	30.00	4.88	
5	181.652	21.37	2.00	3.09	26.46	30.00	3.54	
6	210.360	21.73	2.20	3.50	27.43	30.00	2.57	*
7	266.360	23.05	2.67	0.33	26.05	37.00	10.95	
8	365.025	14.73	3.17	12.35	30.26	37.00	6.74	
9	519.125	17.68	3.75	10.94	32.37	37.00	4.63	
10	625.360	20.29	3.97	3.51	27.77	37.00	9.23	
11	739.360	21.32	4.24	2.89	28.45	37.00	8.55	
12	811.958	23.11	4.49	4.32	31.91	37.00	5.09	

- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 210.360MHz with corrected signal level of 27.43dBμV/m (limit is 30.0dBμV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 290°.
 4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



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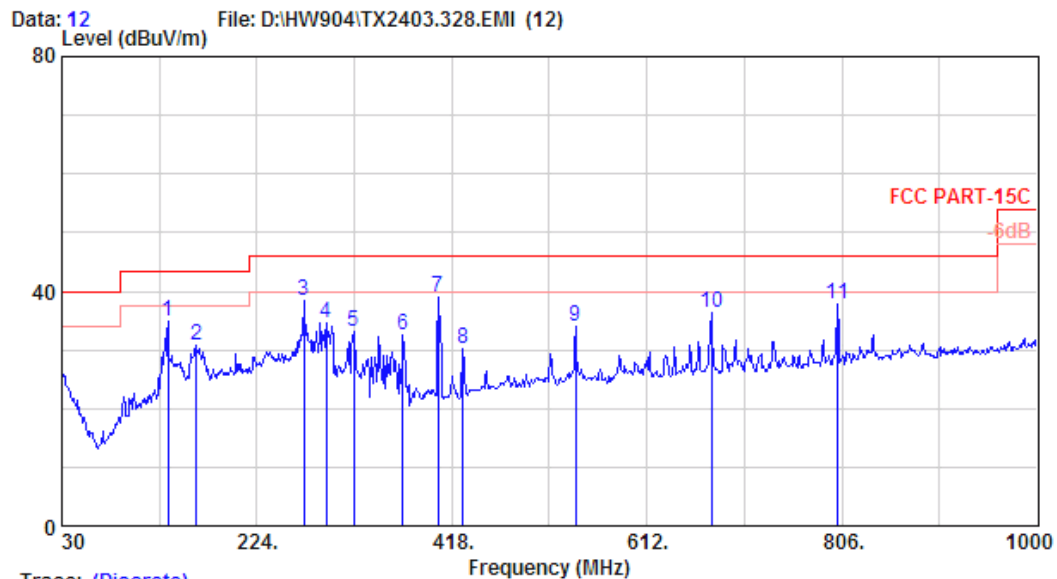
Site no. : NO.5 OPEN SITE Data no. : 1
Dis. / Ant. : 10m VBA6106A/UPA6109(08) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 23°C/61% ESCI(555) Engineer : TIM
EUT : DVD Receiver M/N:HW904PA
Power Rating : 120Vac / 60Hz
Test Mode : DVD Play+HDMI Output

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	76.366	13.41	1.32	8.92	23.66	30.00	6.34	
2	111.366	18.42	1.51	5.33	25.26	30.00	4.74	
3	146.300	19.92	1.78	2.37	24.07	30.00	5.93	
4	163.250	20.50	1.89	-1.24	21.15	30.00	8.85	
5	179.259	21.21	1.99	3.93	27.13	30.00	2.87	
6	184.459	21.51	2.02	3.77	27.30	30.00	2.70 *	
7	210.001	21.73	2.19	1.73	25.65	30.00	4.35	
8	262.250	22.76	2.63	1.27	26.66	37.00	10.34	
9	364.250	14.73	3.17	9.64	27.54	37.00	9.46	
10	452.250	16.49	3.52	9.21	29.22	37.00	7.78	
11	519.587	17.69	3.75	10.91	32.35	37.00	4.65	
12	765.250	21.75	4.33	3.59	29.68	37.00	7.32	
13	811.970	23.11	4.49	4.36	31.95	37.00	5.05	

- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 184.459MHz with corrected signal level of 27.30dBμV/m (limit is 30.0dBμV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 90°.
 4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



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Trace: (Discrete)

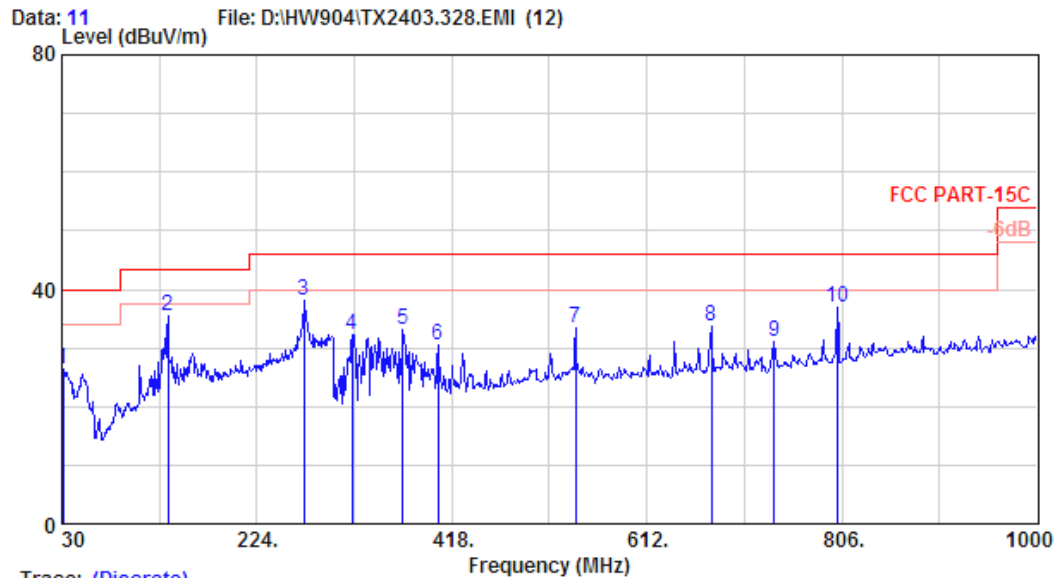
Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		

		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	135.730	19.95	2.40	12.64	34.99	43.50	8.51	
2	163.860	20.89	2.70	7.08	30.67	43.50	12.83	
3	270.560	25.00	3.70	9.55	38.25	46.00	7.75	
4	292.870	26.24	3.90	4.34	34.48	46.00	11.52	
5	320.030	14.99	4.20	13.93	33.12	46.00	12.88	
6	369.500	16.93	4.60	11.12	32.65	46.00	13.35	
7	404.420	17.47	4.90	16.56	38.93	46.00	7.07	
8	428.670	17.23	5.20	7.86	30.29	46.00	15.71	
9	541.190	19.25	7.01	7.84	34.10	46.00	11.90	
10	676.020	22.89	6.40	7.19	36.47	46.00	9.53	
11	802.120	24.17	6.90	6.81	37.87	46.00	8.13	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		

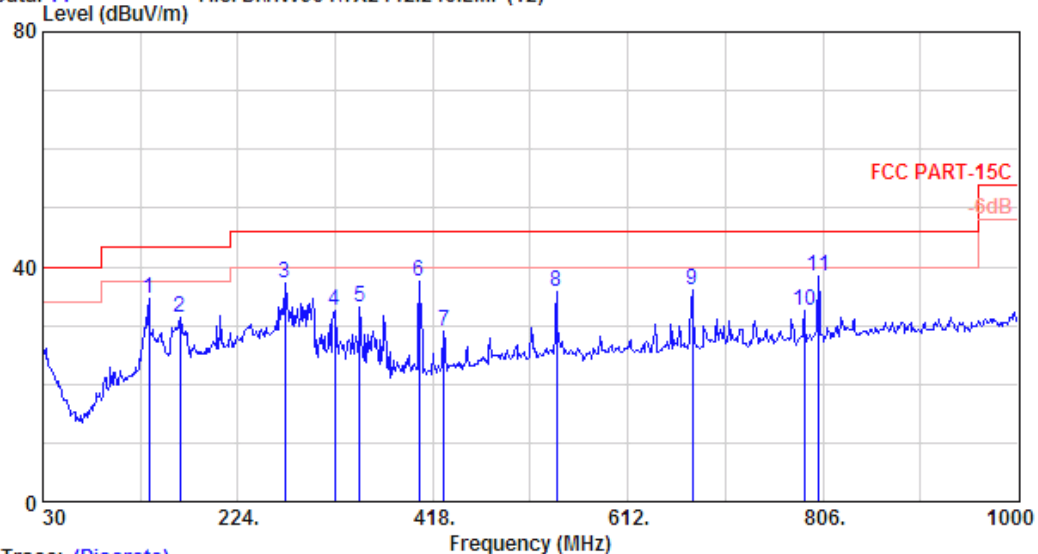
		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.970	24.81	1.10	0.51	26.42	40.00	13.58	
2	135.730	19.95	2.40	13.12	35.47	43.50	8.03	
3	270.560	25.00	3.70	9.53	38.23	46.00	7.77	
4	319.060	14.93	4.10	13.34	32.36	46.00	13.64	
5	369.500	16.93	4.60	11.46	32.99	46.00	13.01	
6	404.420	17.47	4.90	8.05	30.42	46.00	15.58	
7	541.190	19.25	7.01	7.07	33.33	46.00	12.67	
8	676.020	22.89	6.40	4.28	33.56	46.00	12.44	
9	739.070	22.32	6.60	2.07	30.99	46.00	15.01	
10	802.120	24.17	6.90	5.84	36.90	46.00	9.10	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttemc@ttemc.com.tw

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Trace: (Discrete)

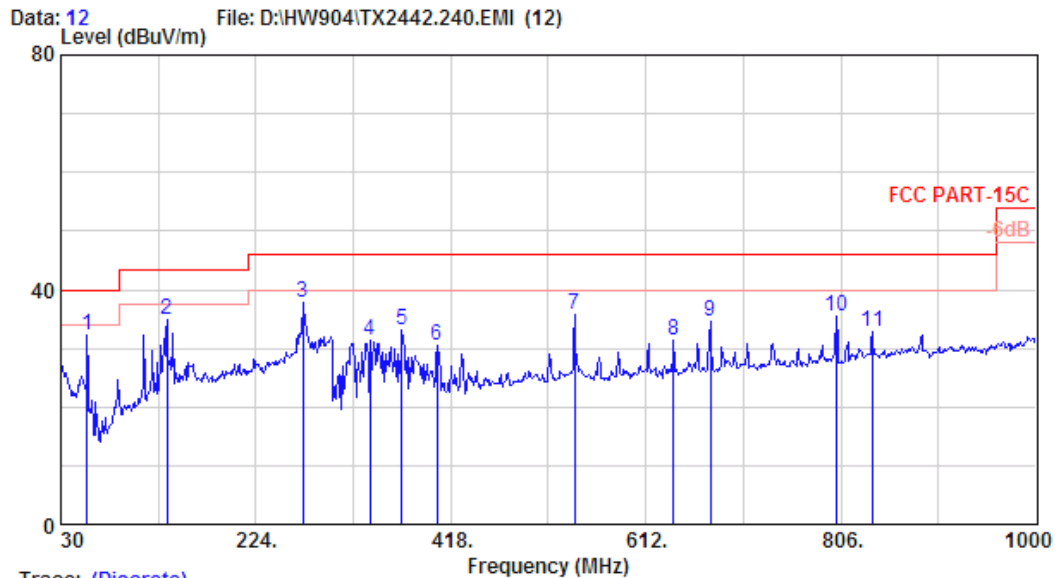
Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	135.730	19.95	2.40	12.15	34.50	43.50	9.00	
2	166.770	20.96	2.70	7.75	31.41	43.50	12.09	
3	270.560	25.00	3.70	8.57	37.27	46.00	8.73	
4	320.030	14.99	4.20	13.48	32.67	46.00	13.33	
5	345.250	15.05	4.40	13.58	33.03	46.00	12.97	
6	404.420	17.47	4.90	15.21	37.58	46.00	8.42	
7	428.670	17.23	5.20	6.70	29.13	46.00	16.87	
8	541.190	19.25	7.01	9.57	35.83	46.00	10.17	
9	676.020	22.89	6.40	6.89	36.17	46.00	9.83	
10	787.570	23.78	6.90	1.95	32.62	46.00	13.38	
11	802.120	24.17	6.90	7.39	38.45	46.00	7.55	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240MHz		

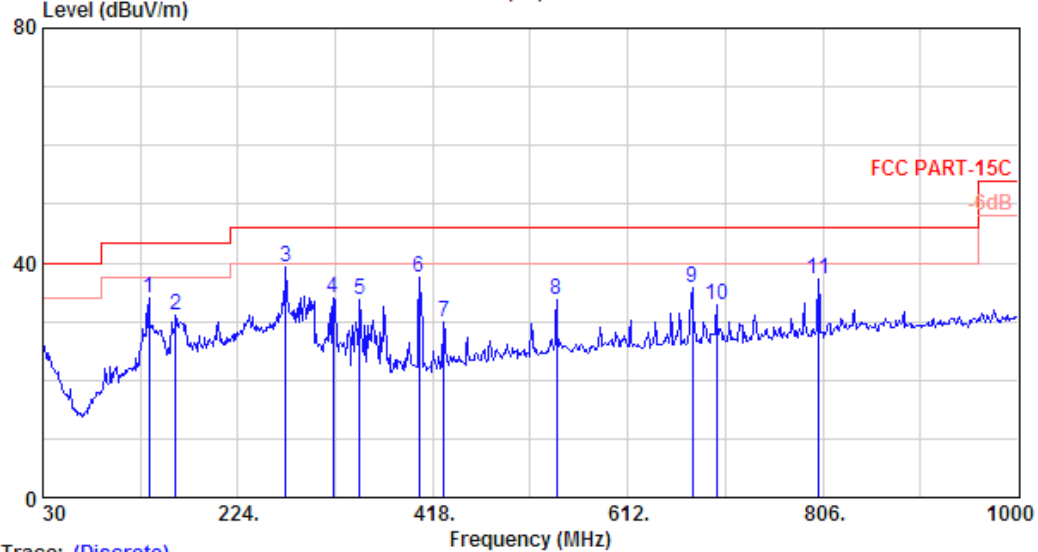
	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	56.190	14.11	1.60	16.57	32.28	40.00	7.72
2	135.730	19.95	2.40	12.48	34.83	43.50	8.67
3	270.560	25.00	3.70	9.17	37.87	46.00	8.13
4	337.490	15.09	4.20	12.10	31.39	46.00	14.61
5	369.500	16.93	4.60	11.44	32.97	46.00	13.03
6	404.420	17.47	4.90	8.24	30.61	46.00	15.39
7	541.190	19.25	7.01	9.45	35.71	46.00	10.29
8	639.160	20.95	6.28	4.24	31.48	46.00	14.52
9	676.020	22.89	6.40	5.38	34.66	46.00	11.34
10	802.120	24.17	6.90	4.30	35.36	46.00	10.64
11	837.040	24.94	7.10	0.72	32.76	46.00	13.24

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 12 File: D:\HW904\TX2479.104.EMI (12)



Trace: (Discrete)

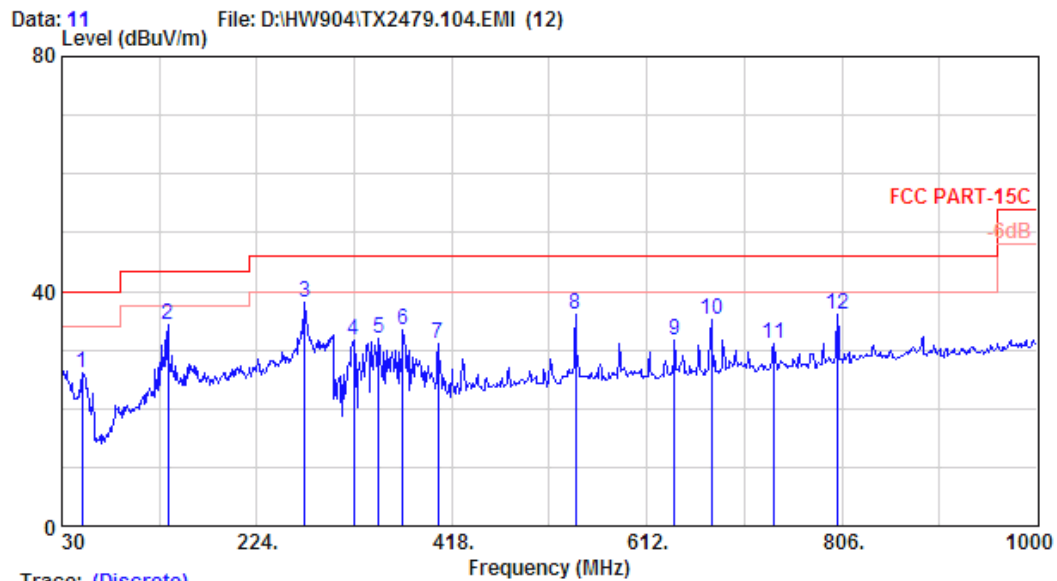
Site no. : A/C Chamber Data no. : 12
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2479.104MHz

		Ant. Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	135.730	19.95	2.40	11.61	33.96	43.50	9.54
2	161.920	20.85	2.70	7.64	31.19	43.50	12.31
3	271.530	25.06	3.70	10.51	39.27	46.00	6.73
4	319.060	14.93	4.10	14.96	33.98	46.00	12.02
5	345.250	15.05	4.40	14.18	33.63	46.00	12.37
6	404.420	17.47	4.90	15.00	37.37	46.00	8.63
7	428.670	17.23	5.20	7.42	29.85	46.00	16.15
8	541.190	19.25	7.01	7.58	33.84	46.00	12.16
9	676.020	22.89	6.40	6.45	35.73	46.00	10.27
10	700.270	23.46	6.50	2.83	32.80	46.00	13.20
11	802.120	24.17	6.90	6.16	37.22	46.00	8.78

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

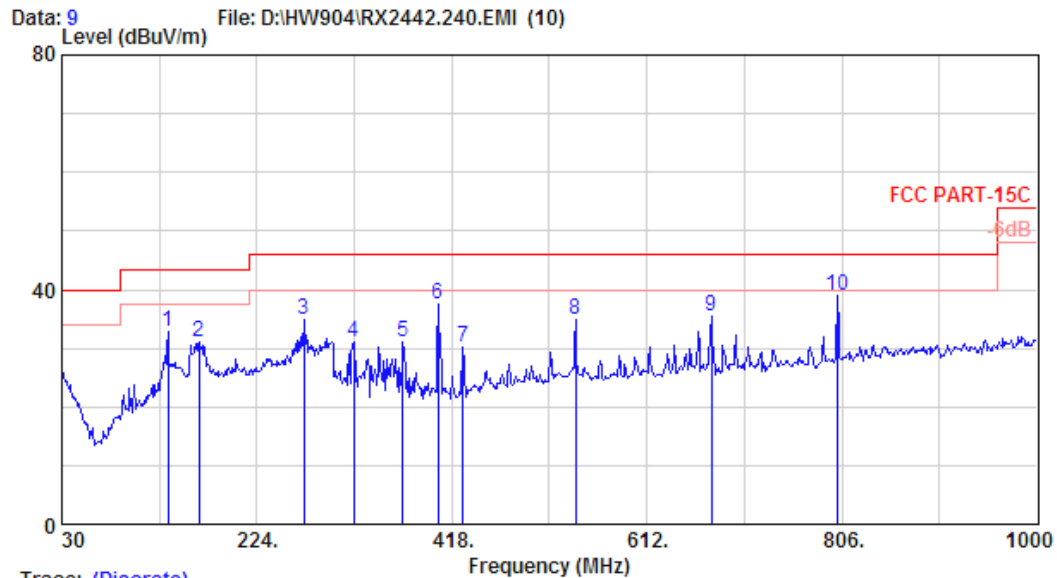
Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N:HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

	Ant.	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	50.370	16.28	1.50	8.34	26.12	40.00	13.88
2	135.730	19.95	2.40	12.06	34.41	43.50	9.09
3	271.530	25.06	3.70	9.42	38.18	46.00	7.82
4	320.030	14.99	4.20	12.52	31.71	46.00	14.29
5	345.250	15.05	4.40	12.46	31.91	46.00	14.09
6	369.500	16.93	4.60	11.76	33.29	46.00	12.71
7	404.420	17.47	4.90	8.65	31.02	46.00	14.98
8	541.190	19.25	7.01	9.91	36.17	46.00	9.83
9	639.160	20.95	6.28	4.28	31.52	46.00	14.48
10	676.020	22.89	6.40	5.78	35.06	46.00	10.94
11	739.070	22.32	6.60	2.07	30.99	46.00	15.01
12	802.120	24.17	6.90	4.95	36.01	46.00	9.99

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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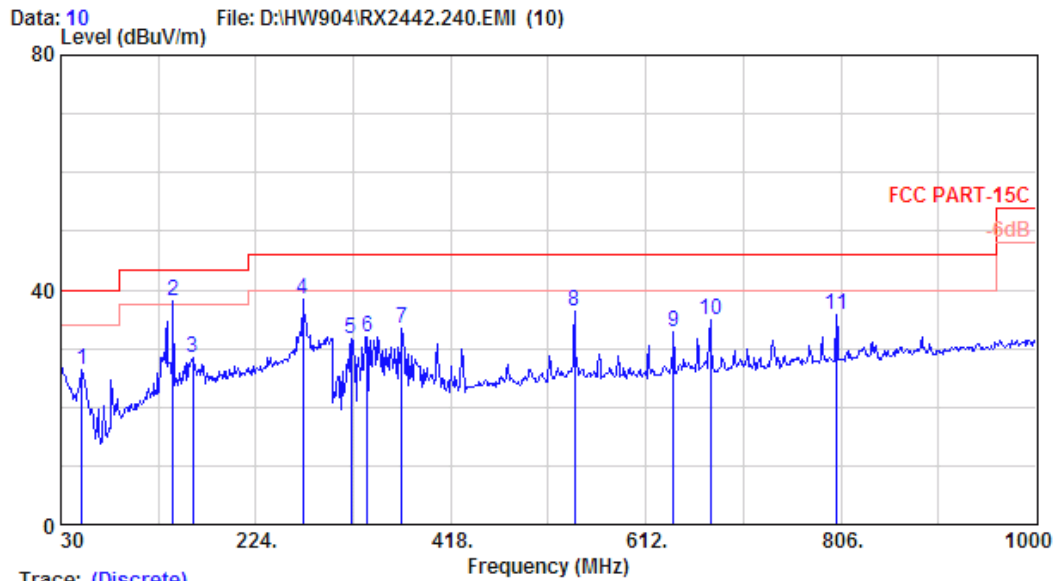
Site no.	: A/C Chamber	Data no.	: 9
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2442.240MHz		

	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	135.730	19.95	2.40	10.57	32.92	43.50	10.58
2	166.770	20.96	2.70	7.31	30.97	43.50	12.53
3	270.560	25.00	3.70	6.23	34.93	46.00	11.07
4	320.030	14.99	4.20	11.80	30.99	46.00	15.01
5	369.500	16.93	4.60	9.62	31.15	46.00	14.85
6	404.420	17.47	4.90	15.23	37.60	46.00	8.40
7	428.670	17.23	5.20	7.63	30.06	46.00	15.94
8	541.190	19.25	7.01	8.60	34.86	46.00	11.14
9	676.020	22.89	6.40	6.10	35.38	46.00	10.62
10	802.120	24.17	6.90	7.94	39.00	46.00	7.00

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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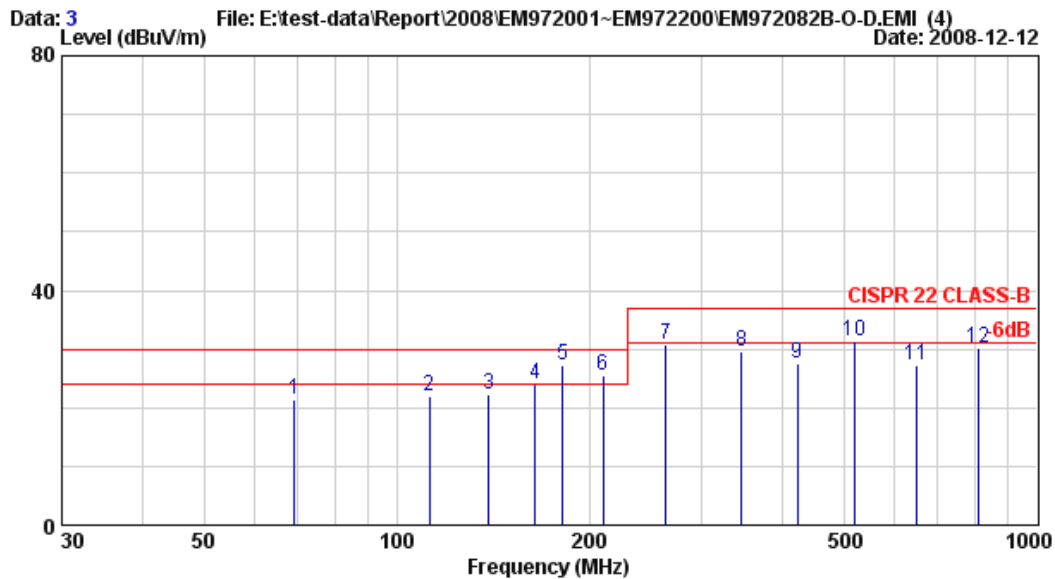
Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:HW904PA
Power Rating : 120Vac/60Hz
Test Mode : RX2442.240MHz

		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	51.340	15.96	1.50	8.94	26.40	40.00	13.60	
2	141.550	20.25	2.50	15.30	38.05	43.50	5.45	
3	160.950	20.82	2.70	4.80	28.33	43.50	15.17	
4	270.560	25.00	3.70	9.78	38.48	46.00	7.52	
5	319.060	14.93	4.10	12.76	31.78	46.00	14.22	
6	334.580	15.09	4.20	12.59	31.88	46.00	14.12	
7	369.500	16.93	4.60	11.97	33.50	46.00	12.50	
8	541.190	19.25	7.01	9.94	36.20	46.00	9.80	
9	639.160	20.95	6.28	5.60	32.84	46.00	13.16	
10	676.020	22.89	6.40	5.52	34.80	46.00	11.20	
11	802.120	24.17	6.90	4.67	35.73	46.00	10.27	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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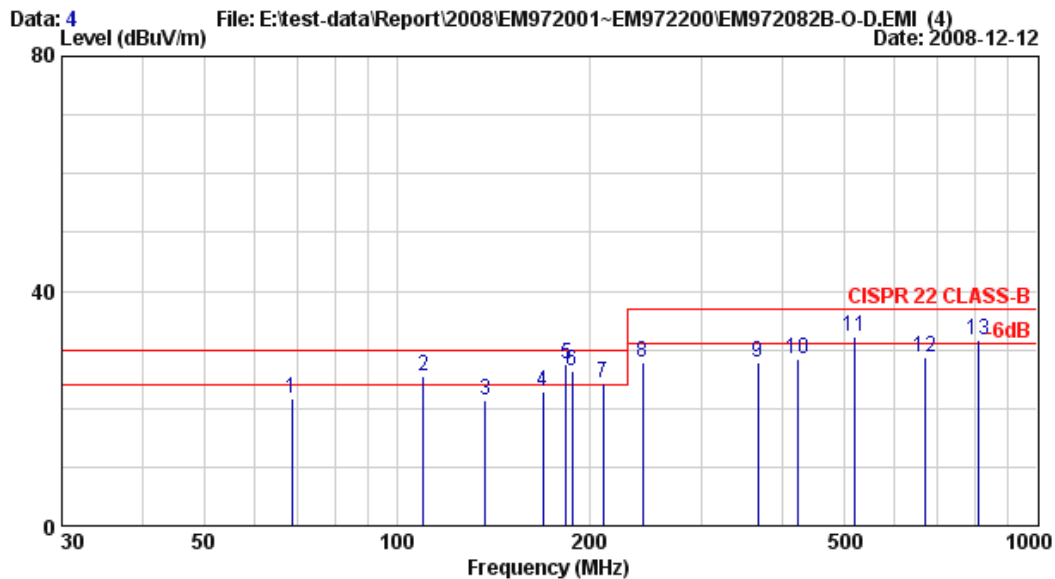
Site no. : NO.5 OPEN SITE Data no. : 3
Dis. / Ant. : 10m VBA6106A/UPA6109(08) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 23°C/61% ESCI(555) Engineer : TIM
EUT : DVD Receiver M/N:HW964TZ
Power Rating : 120Vac / 60Hz
Test Mode : DVD Play+HDMI Output

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	69.144	12.09	1.29	7.87	21.26	30.00	8.74	
2	112.453	18.40	1.52	2.07	21.99	30.00	8.01	
3	139.250	19.70	1.74	0.88	22.32	30.00	7.68	
4	164.554	20.66	1.90	1.35	23.91	30.00	6.09	
5	181.980	21.42	2.00	3.83	27.26	30.00	2.74	*
6	210.120	21.73	2.19	1.53	25.45	30.00	4.55	
7	263.254	22.77	2.64	5.37	30.79	37.00	6.21	
8	345.200	14.98	3.10	11.46	29.54	37.00	7.46	
9	422.230	15.97	3.40	8.30	27.67	37.00	9.33	
10	519.562	17.69	3.75	9.82	31.26	37.00	5.74	
11	648.250	20.34	4.01	2.90	27.26	37.00	9.74	
12	811.458	23.11	4.49	2.66	30.25	37.00	6.75	

- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission was detected at 181.9800MHz with corrected signal level of 27.26dBuV/m (limit is 30.0dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 160°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



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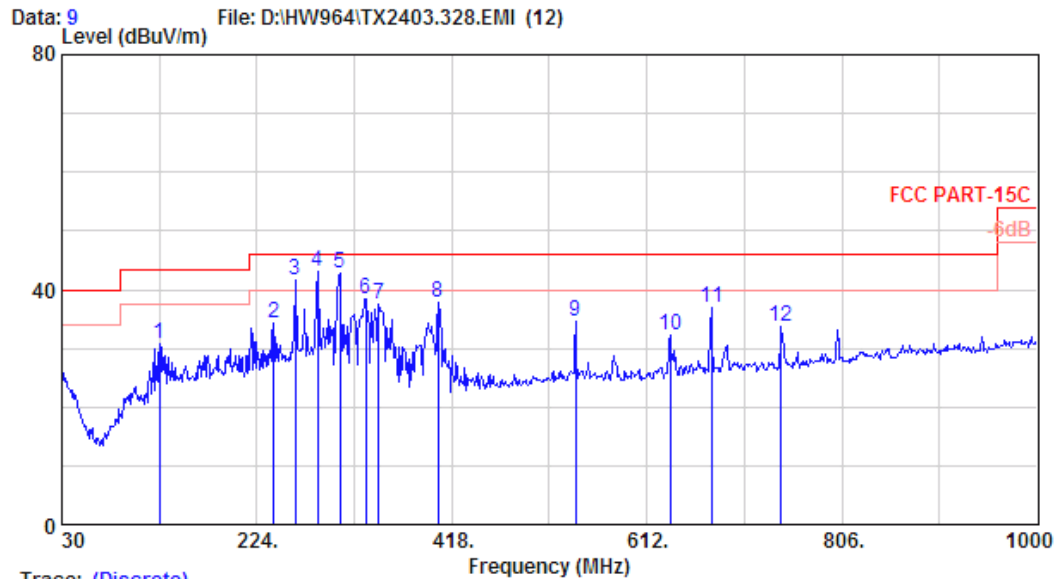
Site no. : NO.5 OPEN SITE Data no. : 4
Dis. / Ant. : 10m VBA6106A/UPA6109(08) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 23°C/61% ESCI(555) Engineer : TIM
EUT : DVD Receiver M/N:HW964T2
Power Rating : 120Vac / 60Hz
Test Mode : DVD Play+HDMI Output

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	68.660	12.09	1.29	8.36	21.74	30.00	8.26	
2	110.125	18.40	1.50	5.58	25.48	30.00	4.52	
3	137.360	19.65	1.72	0.12	21.49	30.00	8.51	
4	169.484	20.81	1.93	0.04	22.78	30.00	7.22	
5	184.224	21.51	2.02	3.94	27.47	30.00	2.53 *	
6	188.025	21.51	2.04	2.71	26.26	30.00	3.74	
7	209.980	21.73	2.19	0.49	24.41	30.00	5.59	
8	242.360	22.11	2.48	3.36	27.95	37.00	9.05	
9	366.316	14.73	3.18	9.85	27.75	37.00	9.25	
10	424.225	16.04	3.41	9.10	28.54	37.00	8.46	
11	519.566	17.69	3.75	10.91	32.35	37.00	4.65	
12	668.250	20.41	4.05	4.36	28.82	37.00	8.18	
13	812.235	23.11	4.49	3.97	31.56	37.00	5.44	

- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 184.224MHz with corrected signal level of 27.47dBμV/m (limit is 30.0dBμV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 220°.
 4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



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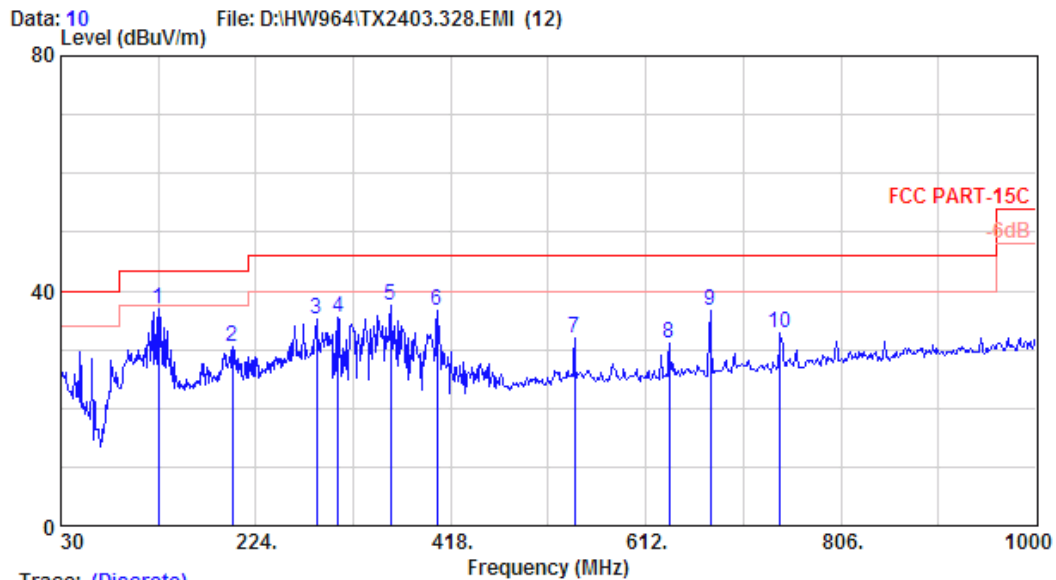
Site no. : A/C Chamber Data no. : 9
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW964TZ
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	127.000	19.56	2.40	34.91	30.75	43.50	12.75	
2	240.490	23.10	3.40	33.42	34.17	46.00	11.83	
3	261.830	24.57	3.60	39.06	41.49	46.00	4.51	
4	284.140	25.51	3.80	39.44	43.03	46.00	2.97	
5	306.450	14.94	3.90	49.82	42.87	46.00	3.13	
6	332.640	15.21	4.20	45.14	38.53	46.00	7.47	
7	345.250	15.05	4.40	44.17	37.49	46.00	8.51	
8	404.420	17.47	4.90	42.06	37.82	46.00	8.18	
9	541.190	19.25	7.01	35.34	34.62	46.00	11.38	
10	635.280	20.93	6.30	32.41	32.36	46.00	13.64	
11	676.020	22.89	6.40	35.12	37.04	46.00	8.96	
12	745.860	22.91	6.65	31.45	33.66	46.00	12.34	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:HW964TZ
Power Rating : 120Vac/60Hz
Test Mode : TX2403.328MHz

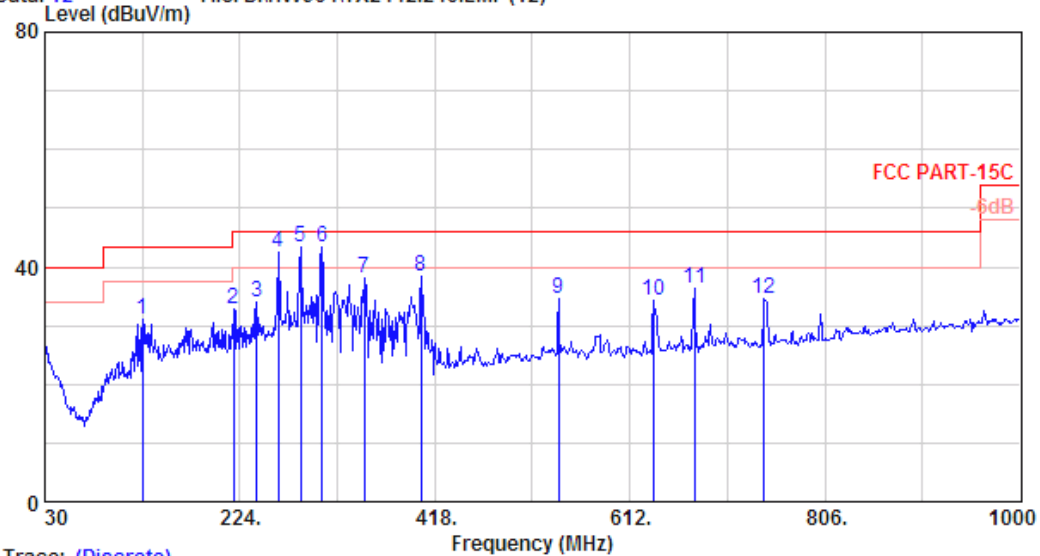
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	127.000	19.56	2.40	41.20	37.04	43.50	6.46	
2	200.720	22.08	3.00	31.31	30.58	43.50	12.92	
3	284.140	25.51	3.80	31.66	35.25	46.00	10.75	
4	305.480	14.94	3.90	42.43	35.52	46.00	10.48	
5	357.860	15.90	4.40	43.50	37.54	46.00	8.46	
6	404.420	17.47	4.90	40.87	36.63	46.00	9.37	
7	541.190	19.25	7.01	32.75	32.03	46.00	13.97	
8	635.280	20.93	6.30	31.02	30.97	46.00	15.03	
9	676.020	22.89	6.40	34.58	36.50	46.00	9.50	
10	745.860	22.91	6.65	30.56	32.77	46.00	13.23	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 12 File: D:\HW964\TX2442.240.EMI (12)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m VBA6106A/UHALP9108A	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N:HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240MHz		

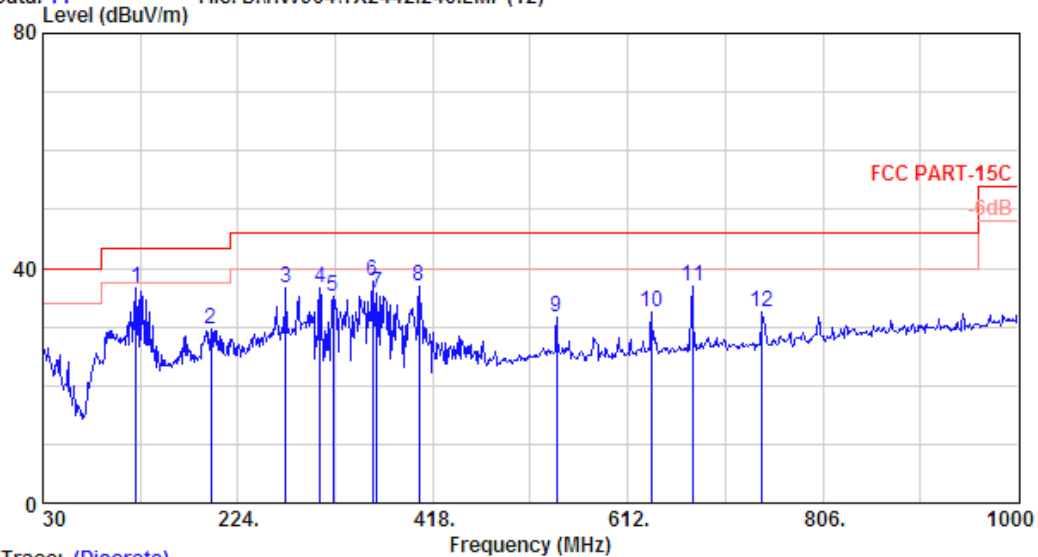
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	127.000	19.56	2.40	9.22	31.18	43.50	12.32	
2	218.180	21.91	3.20	7.84	32.95	46.00	13.05	
3	240.490	23.10	3.40	7.58	34.08	46.00	11.92	
4	261.830	24.57	3.60	14.45	42.62	46.00	3.38	
5	284.140	25.51	3.80	14.00	43.30	46.00	2.70	
6	305.480	14.94	3.90	24.57	43.41	46.00	2.59	
7	348.160	15.26	4.31	18.56	38.13	46.00	7.87	
8	404.420	17.47	4.90	16.12	38.49	46.00	7.51	
9	541.190	19.25	7.01	8.39	34.65	46.00	11.35	
10	635.280	20.93	6.30	7.11	34.34	46.00	11.66	
11	676.020	22.89	6.40	7.10	36.38	46.00	9.62	
12	745.860	22.91	6.65	4.88	34.44	46.00	11.56	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11 File: D:\HW964\TX2442.240.EMI (12)



Trace: (Discrete)

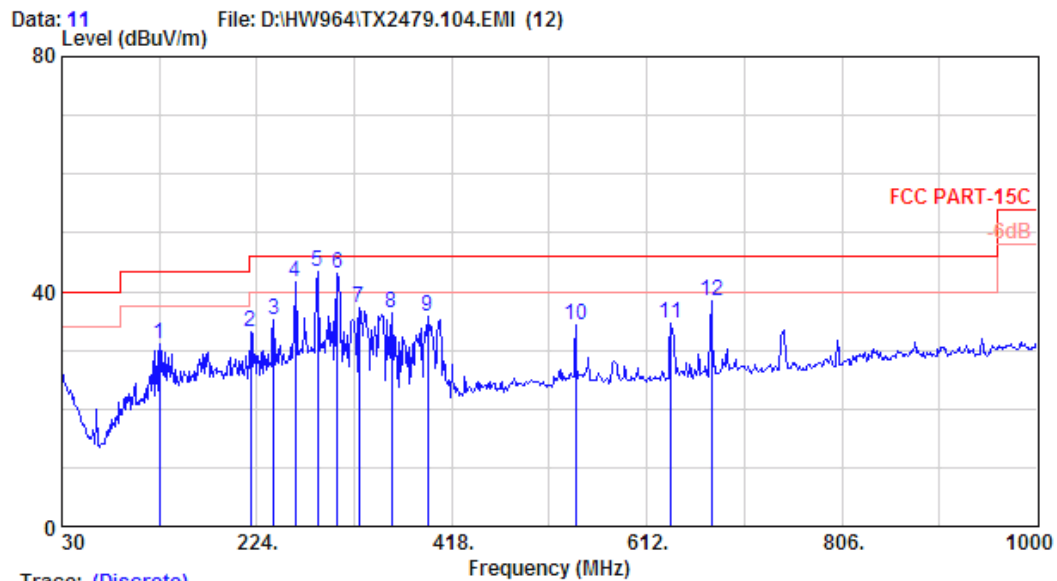
Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:HW964TZ
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	123.120	19.27	2.30	15.03	36.60	43.50	6.90	
2	196.840	21.94	3.00	4.78	29.72	43.50	13.78	
3	271.530	25.06	3.70	7.89	36.65	46.00	9.35	
4	305.480	14.94	3.90	17.73	36.57	46.00	9.43	
5	319.060	14.93	4.10	16.26	35.28	46.00	10.72	
6	357.860	15.90	4.40	17.53	37.82	46.00	8.18	
7	362.710	16.38	4.50	14.99	35.87	46.00	10.13	
8	404.420	17.47	4.90	14.43	36.80	46.00	9.20	
9	541.190	19.25	7.01	5.38	31.64	46.00	14.36	
10	635.280	20.93	6.30	5.22	32.45	46.00	13.55	
11	676.020	22.89	6.40	7.74	37.02	46.00	8.98	
12	745.860	22.91	6.65	3.00	32.56	46.00	13.44	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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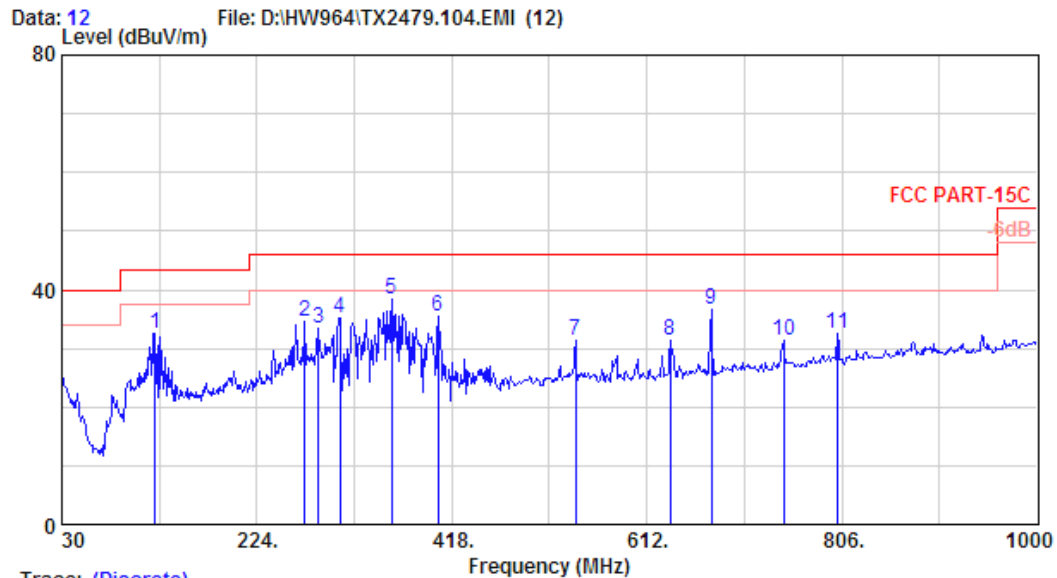
Site no. : A/C Chamber Data no. : 11
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW964TZ
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	127.000	19.56	2.40	9.24	31.20	43.50	12.30	
2	218.180	21.91	3.20	8.06	33.17	46.00	12.83	
3	240.490	23.10	3.40	8.52	35.02	46.00	10.98	
4	261.830	24.57	3.60	13.37	41.54	46.00	4.46	
5	284.140	25.51	3.80	14.05	43.35	46.00	2.65	
6	304.510	14.87	3.90	24.21	42.99	46.00	3.01	
7	325.850	15.15	4.20	17.89	37.24	46.00	8.76	
8	357.860	15.90	4.40	15.94	36.23	46.00	9.77	
9	393.750	17.56	4.70	13.61	35.87	46.00	10.13	
10	541.190	19.25	7.01	7.98	34.24	46.00	11.76	
11	635.280	20.93	6.30	7.27	34.50	46.00	11.50	
12	676.020	22.89	6.40	9.12	38.40	46.00	7.60	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

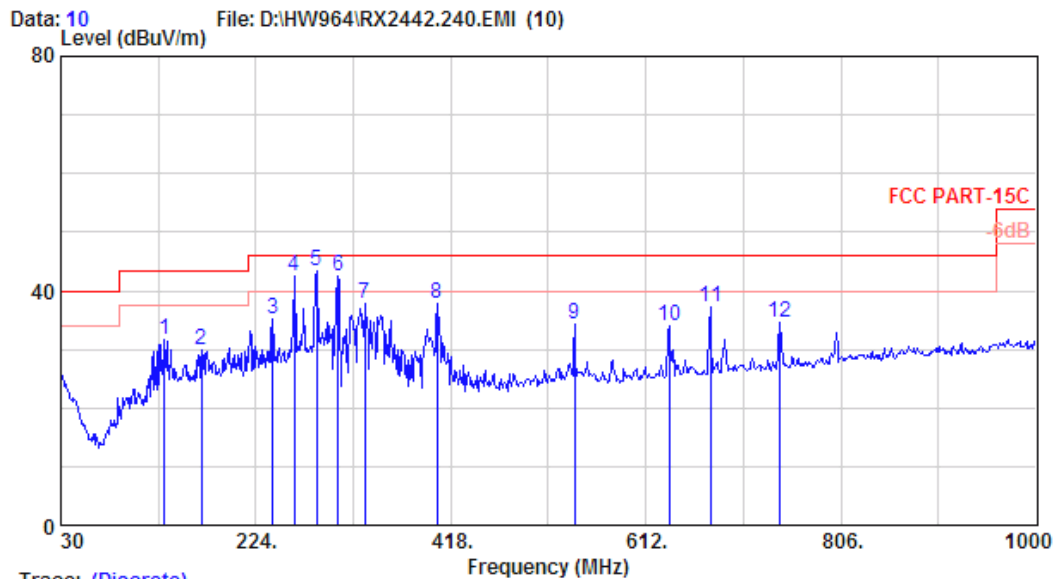
Site no. : A/C Chamber	Data no. : 12
Dis. / Ant. : 3m VBA6106A/UHALP9108A	Ant. pol. : VERTICAL
Limit : FCC PART-15C	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N:HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2479.104MHz	

	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	123.120	19.27	2.30	10.94	32.51	43.50	10.99
2	271.530	25.06	3.70	5.82	34.58	46.00	11.42
3	285.110	25.54	3.80	3.93	33.27	46.00	12.73
4	306.450	14.94	3.90	16.33	35.16	46.00	10.84
5	357.860	15.90	4.40	18.00	38.29	46.00	7.71
6	404.420	17.47	4.90	13.01	35.38	46.00	10.62
7	541.190	19.25	7.01	5.24	31.50	46.00	14.50
8	635.280	20.93	6.30	4.06	31.29	46.00	14.71
9	676.020	22.89	6.40	7.37	36.65	46.00	9.35
10	747.800	23.11	6.70	1.49	31.31	46.00	14.69
11	802.120	24.17	6.90	1.52	32.58	46.00	13.42

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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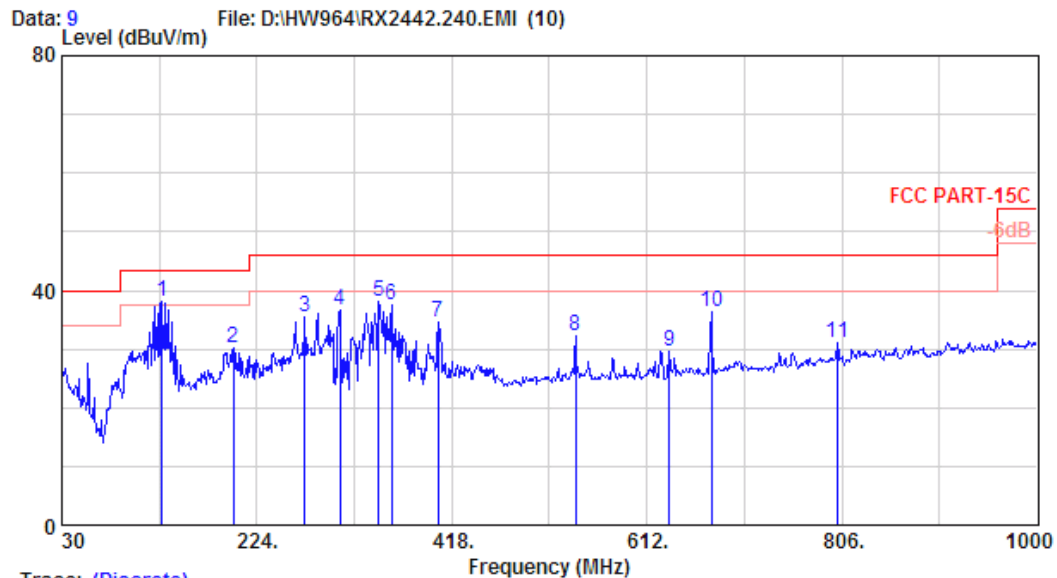
Site no. : A/C Chamber Data no. : 10
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW964TZ
 Power Rating : 120Vac/60Hz
 Test Mode : RX2442.240MHz

		Ant. Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	132.820	19.87	2.40	9.32	31.58	43.50	11.92
2	169.680	21.01	2.80	6.06	29.87	43.50	13.63
3	240.490	23.10	3.40	8.63	35.13	46.00	10.87
4	261.830	24.57	3.60	14.40	42.57	46.00	3.43
5	284.140	25.51	3.80	14.21	43.51	46.00	2.49
6	305.480	14.94	3.90	23.68	42.52	46.00	3.48
7	332.640	15.21	4.20	18.40	37.81	46.00	8.19
8	404.420	17.47	4.90	15.58	37.95	46.00	8.05
9	541.190	19.25	7.01	7.93	34.19	46.00	11.81
10	635.280	20.93	6.30	6.73	33.96	46.00	12.04
11	676.020	22.89	6.40	8.05	37.33	46.00	8.67
12	745.860	22.91	6.65	4.97	34.53	46.00	11.47

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N:HW964T2
Power Rating : 120Vac/60Hz
Test Mode : RX2442.240MHz

		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	129.910	19.73	2.40	16.07	38.20	43.50	5.30	
2	200.720	22.08	3.00	5.03	30.10	43.50	13.40	
3	271.530	25.06	3.70	6.75	35.51	46.00	10.49	
4	306.450	14.94	3.90	17.66	36.49	46.00	9.51	
5	345.250	15.05	4.40	18.58	38.03	46.00	7.97	
6	357.860	15.90	4.40	17.30	37.59	46.00	8.41	
7	404.420	17.47	4.90	12.33	34.70	46.00	11.30	
8	541.190	19.25	7.01	5.95	32.21	46.00	13.79	
9	634.310	20.94	6.30	2.43	29.67	46.00	16.33	
10	676.020	22.89	6.40	7.12	36.40	46.00	9.60	
11	802.120	24.17	6.90	0.06	31.12	46.00	14.88	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. Above 1GHz Frequency Range Measurement Results

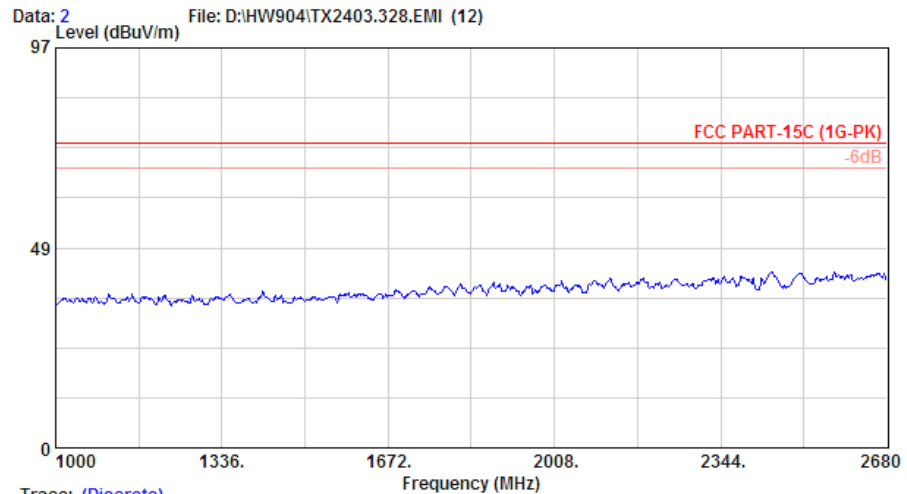
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW904PA

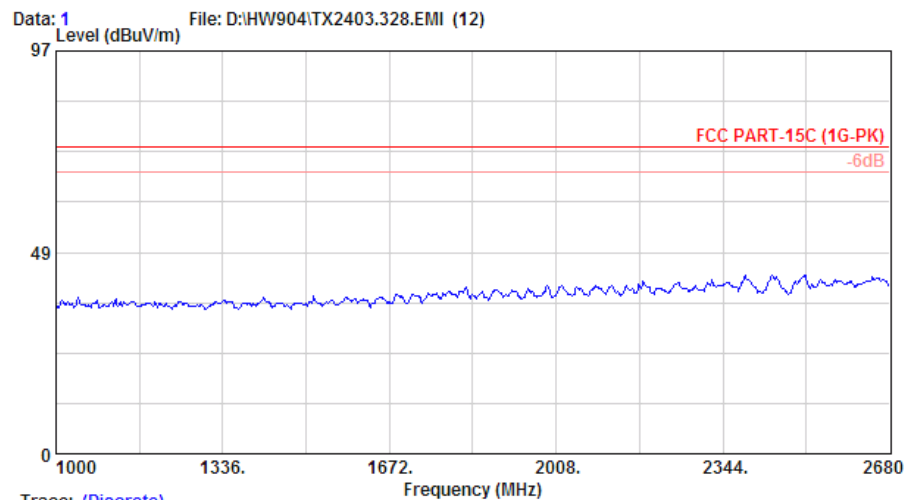
Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2403.328MHz (CH0)



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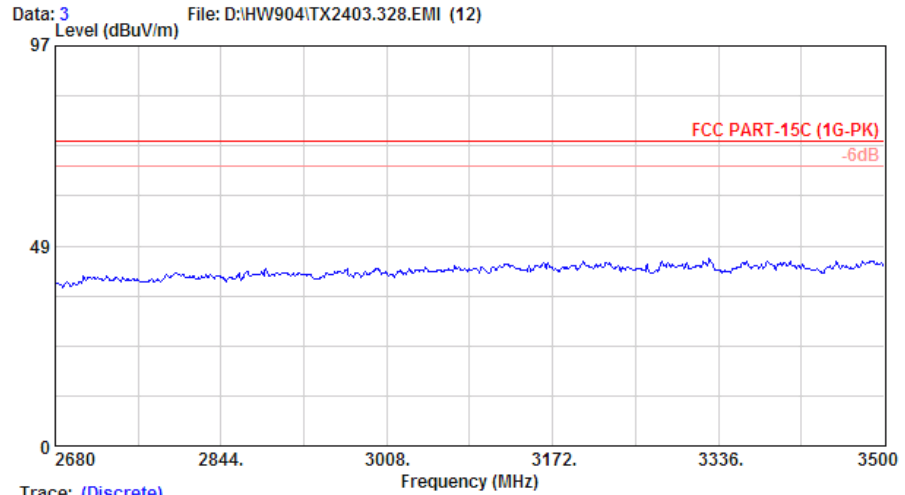
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz



Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

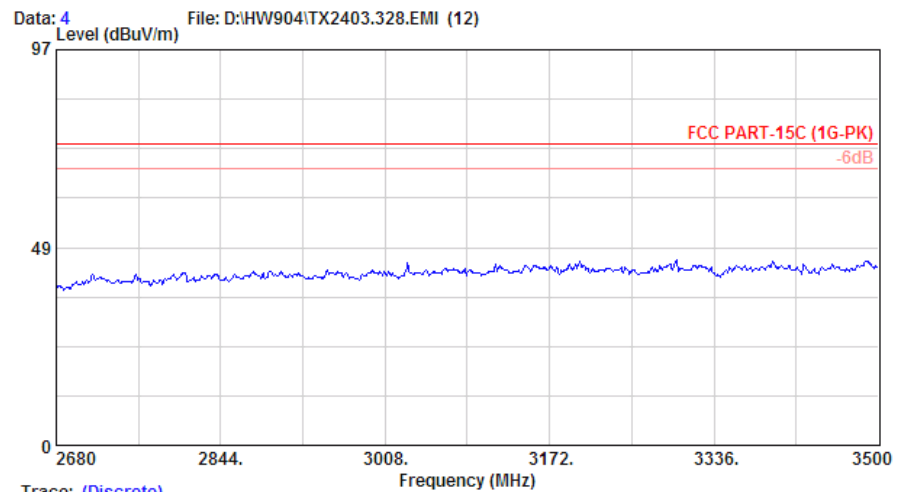


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Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		



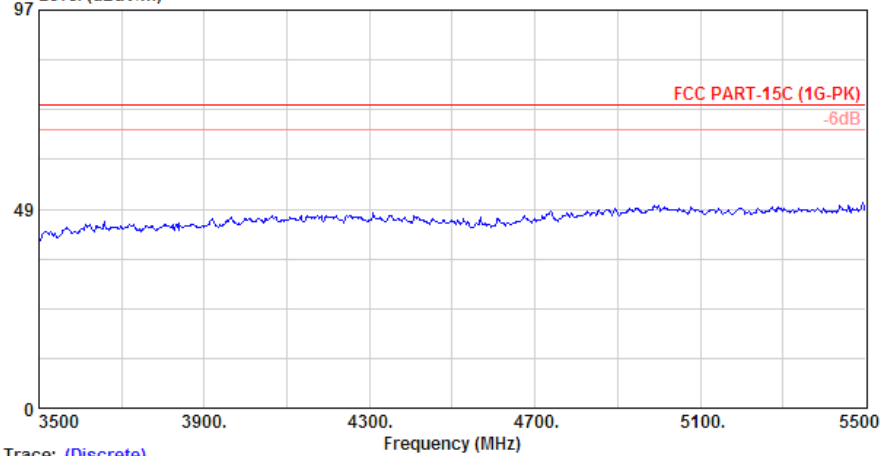
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		



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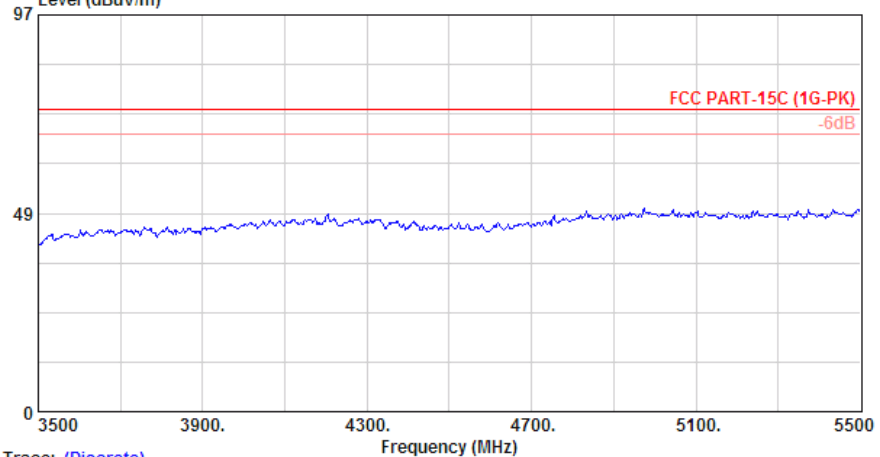
Data: 5 File: D:\HW904\TX2403.328.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 5
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	Engineer : Jarwei Wang
Env. / Ins. : 8564EC 22°C/48%	
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	

Data: 6 File: D:\HW904\TX2403.328.EMI (12)
Level (dBuV/m)



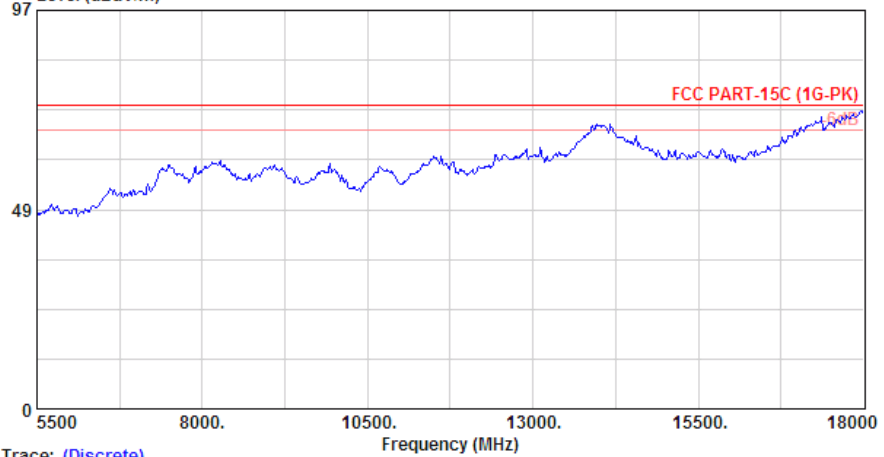
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 6
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	Engineer : Jarwei Wang
Env. / Ins. : 8564EC 22°C/48%	
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	



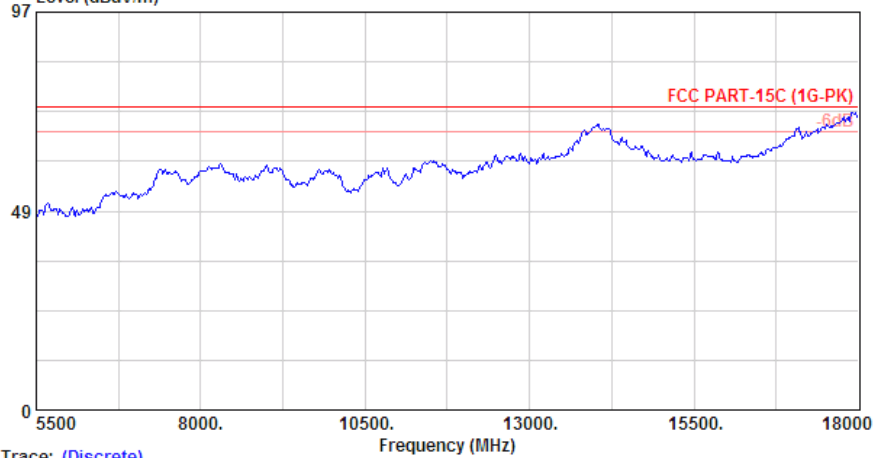
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Data: 8 File: D:\HW904\TX2403.328.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2403.328MHz

Data: 7 File: D:\HW904\TX2403.328.EMI (12)
Level (dBuV/m)

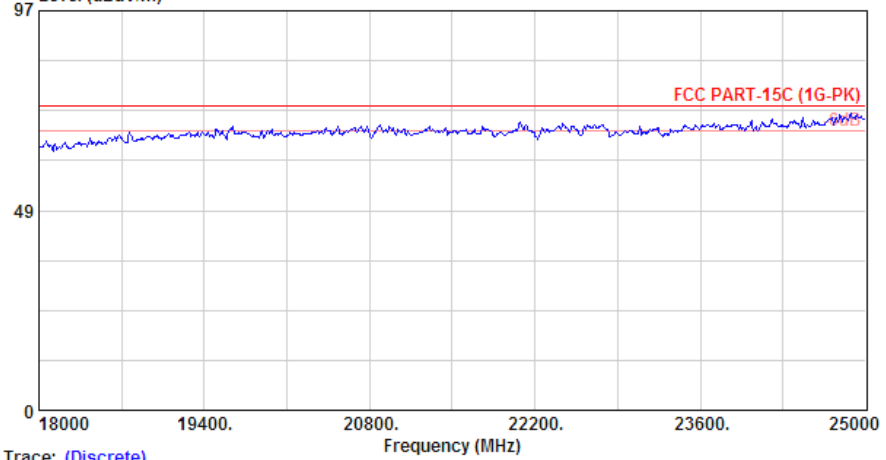


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2403.328MHz



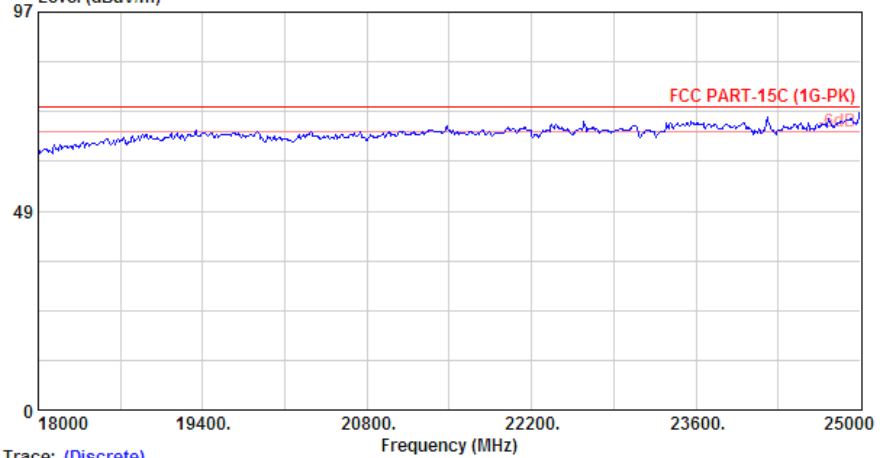
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Data: 9 File: D:\HW904\TX2403.328.EMI (12)
Level (dBuV/m)



Site no. : site	Data no. : 9
Dis. / Ant. : 3m 3116	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	

Data: 10 File: D:\HW904\TX2403.328.EMI (12)
Level (dBuV/m)



Site no. : site	Data no. : 10
Dis. / Ant. : 3m 3116	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	

Date of Test : Dec. 01, 2008 Temperature : 22°C

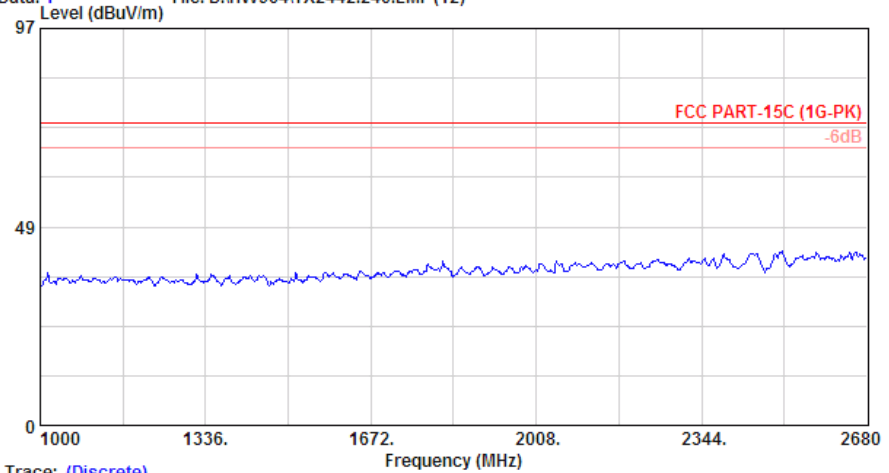
EUT : Wireless DVD Receiver, M/N HW904PA Humidity : 48%

Test Mode : Transmitting Mode, Frequency: 2442.240MHz (CH19) Test Voltage : AC 120V/60Hz



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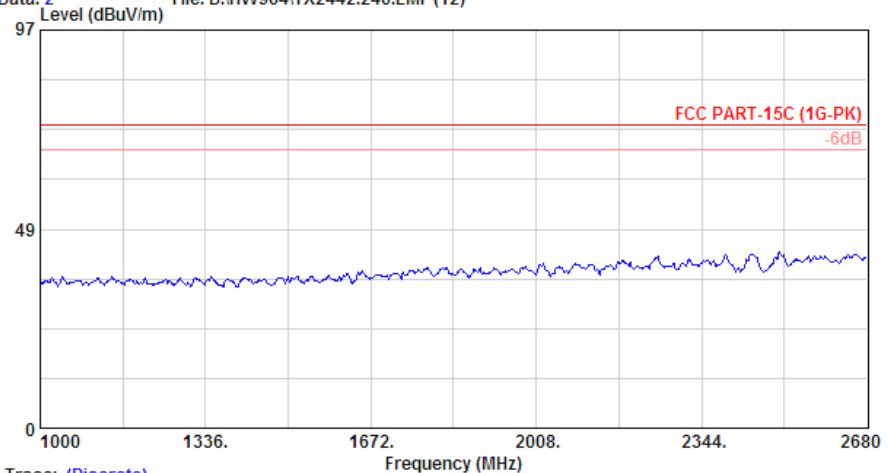
Data: 1 File: D:\HW904\TX2442.240.EMI (12)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240MHz		

Data: 2 File: D:\HW904\TX2442.240.EMI (12)



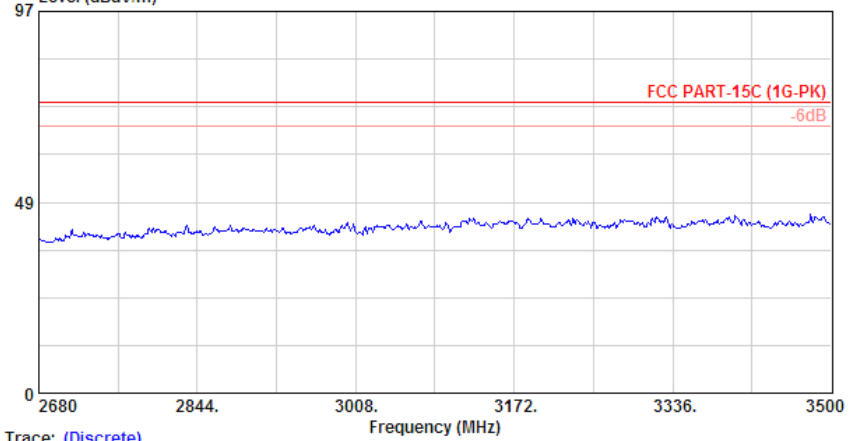
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240MHz		



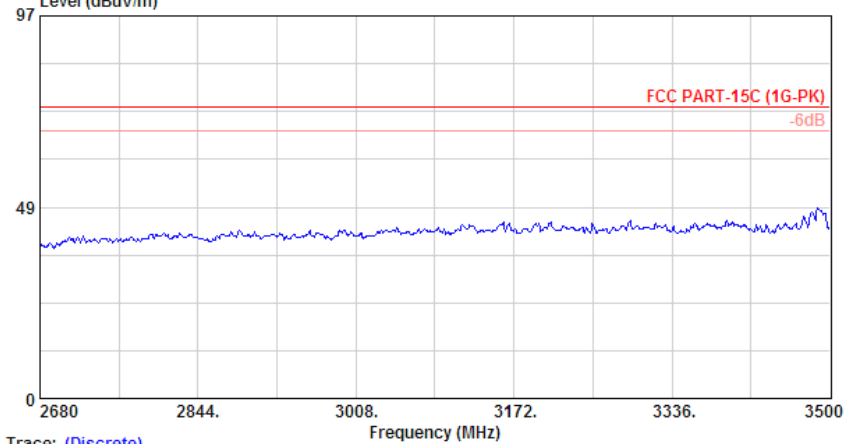
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Data: 4 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

Data: 3 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)

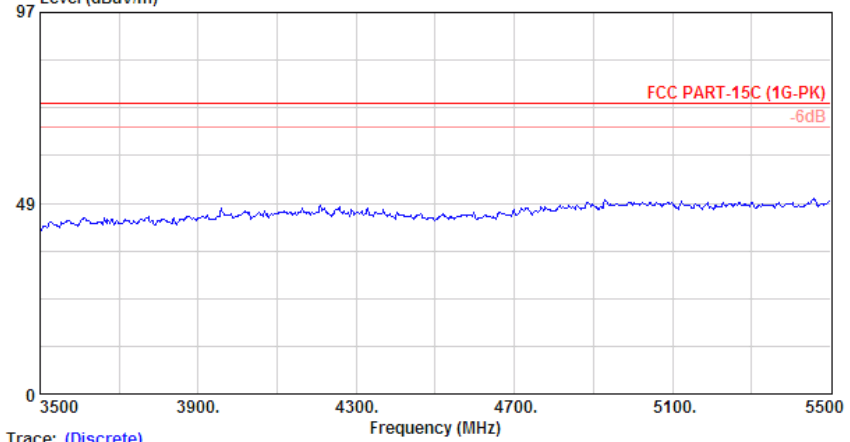


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz



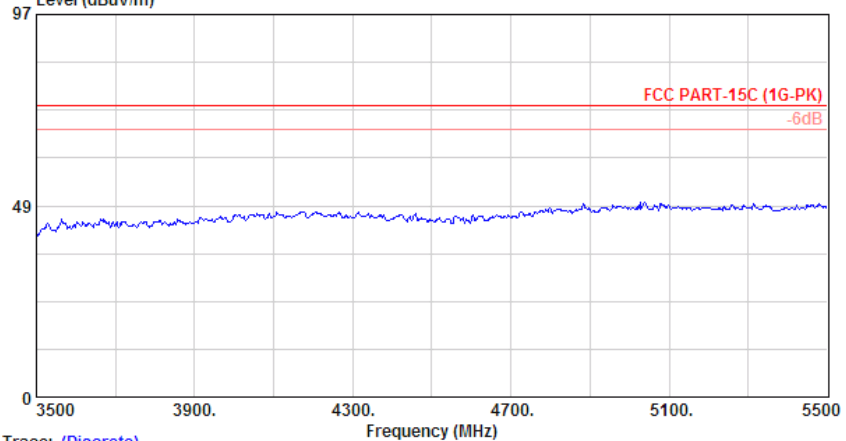
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Data: 5 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

Data: 6 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)

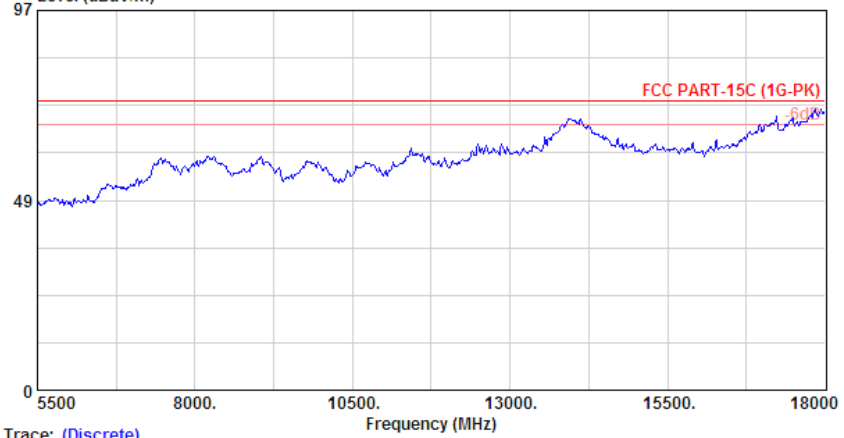


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz



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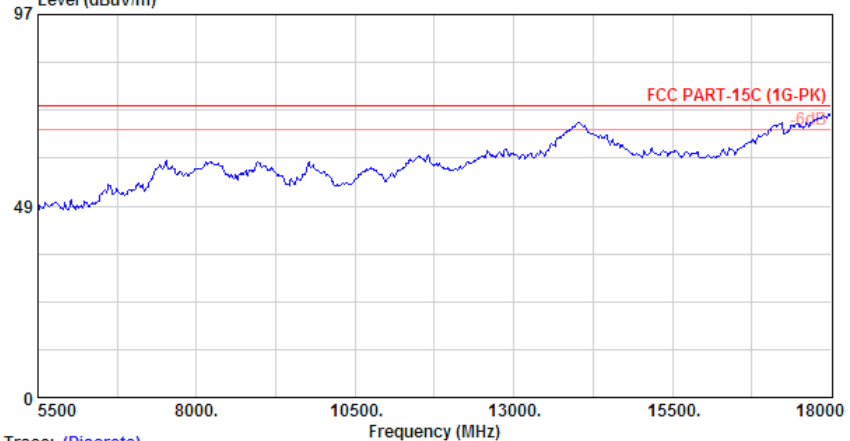
Data: 7 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240MHz		

Data: 8 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)



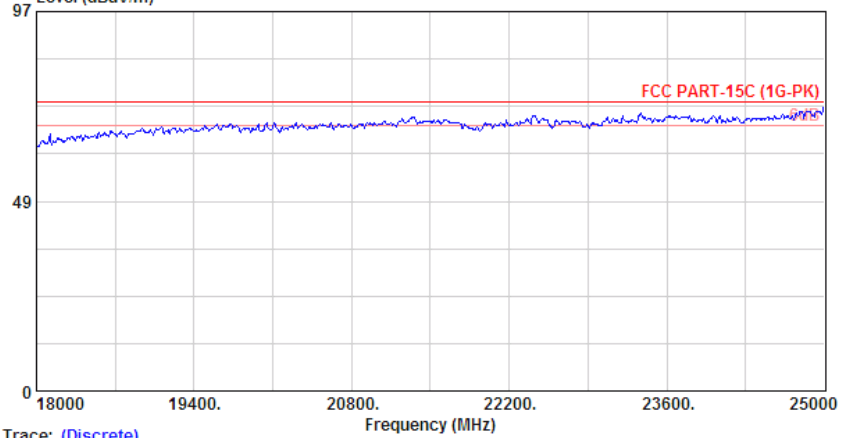
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2442.240MHz		



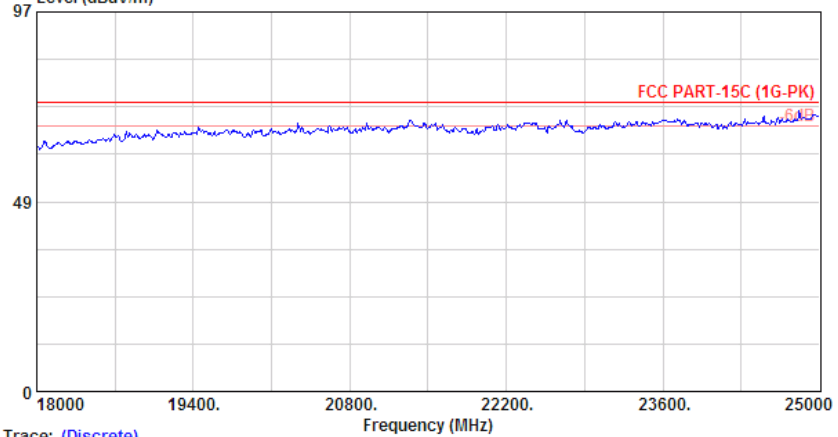
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Email:ttmc@ttmc.com.tw

Data: 9 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : site Data no. : 9
Dis. / Ant. : 3m 3116 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

Data: 10 File: D:\HW904\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : site Data no. : 10
Dis. / Ant. : 3m 3116 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

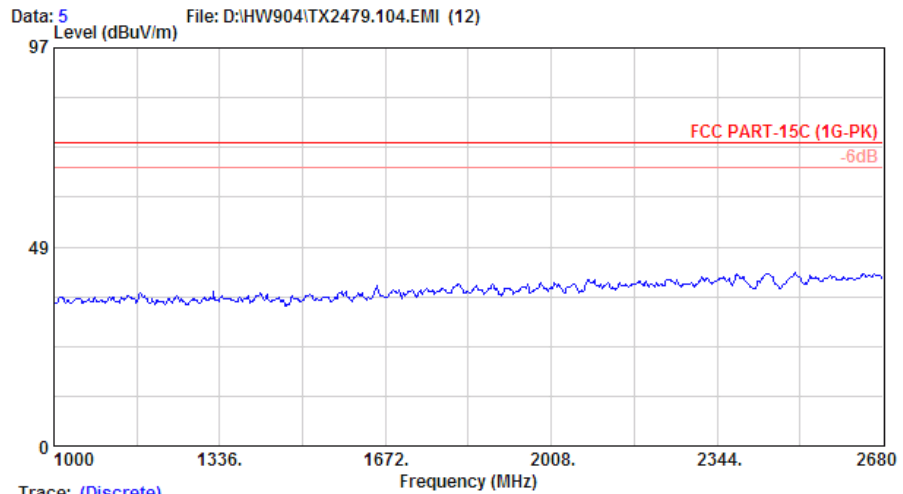
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW904PA

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2479.104MHz (CH37)

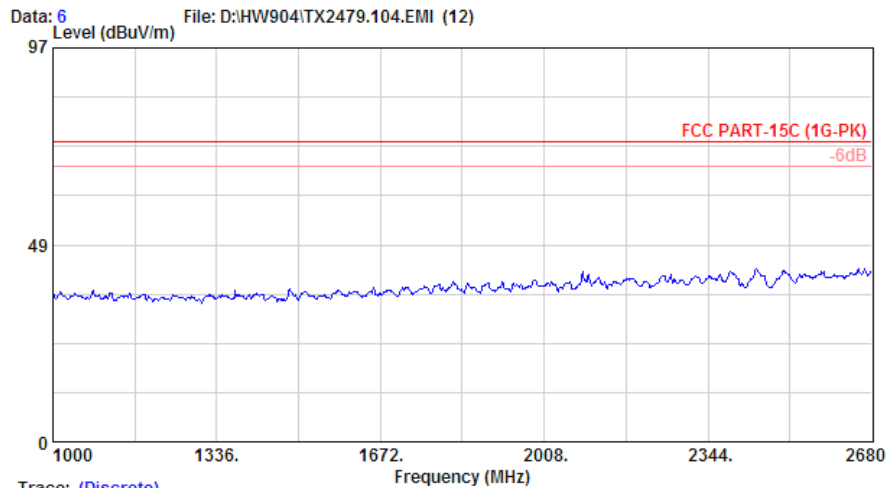


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Trace: (Discrete)

Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz



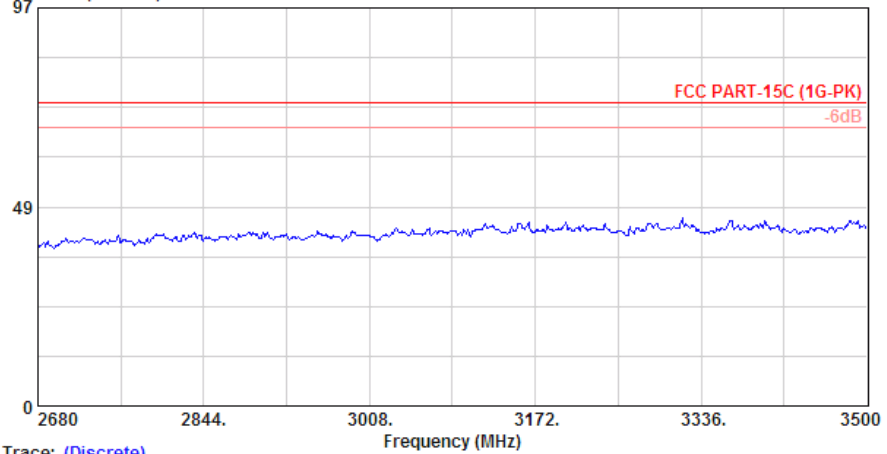
Trace: (Discrete)

Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz



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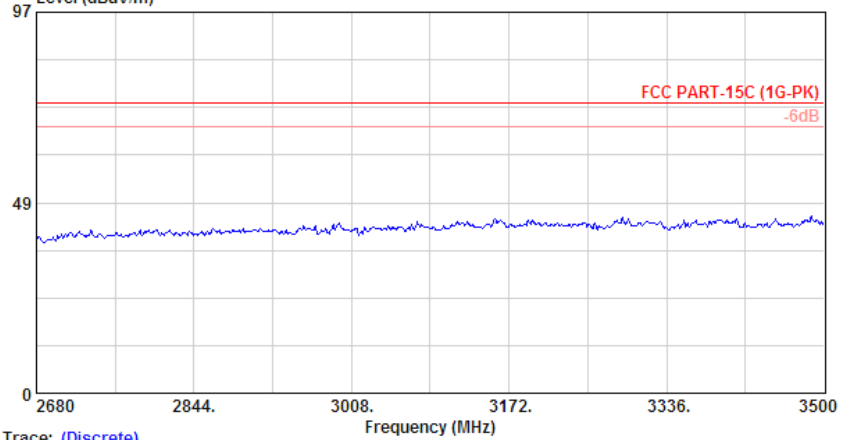
Data: 8 File: D:\HW904\TX2479.104.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

Data: 7 File: D:\HW904\TX2479.104.EMI (12)
Level (dBuV/m)



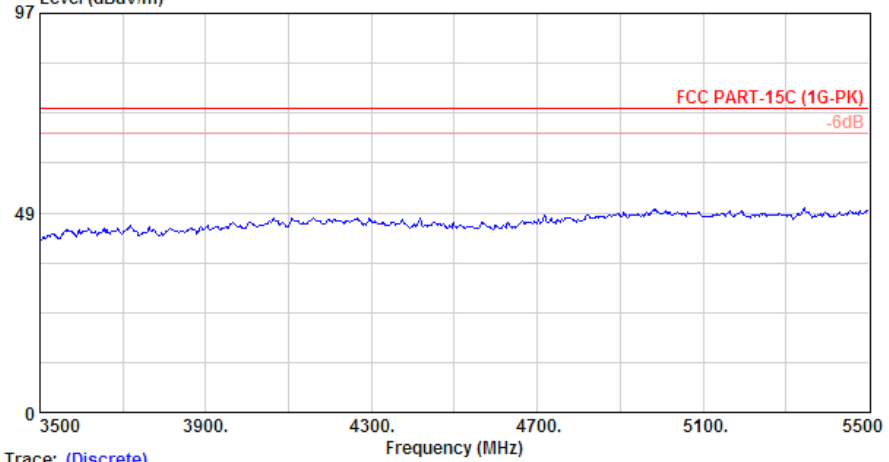
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



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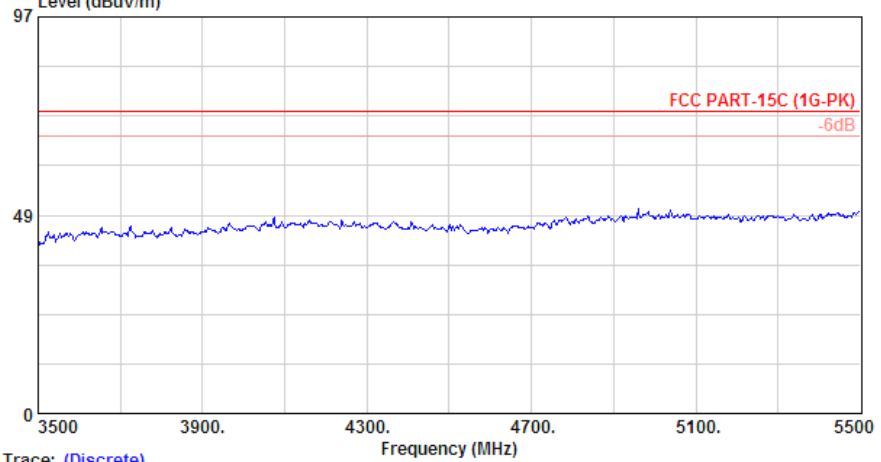
Data: 1 File: D:\HW904\TX2479.104.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

Data: 2 File: D:\HW904\TX2479.104.EMI (12)
Level (dBuV/m)



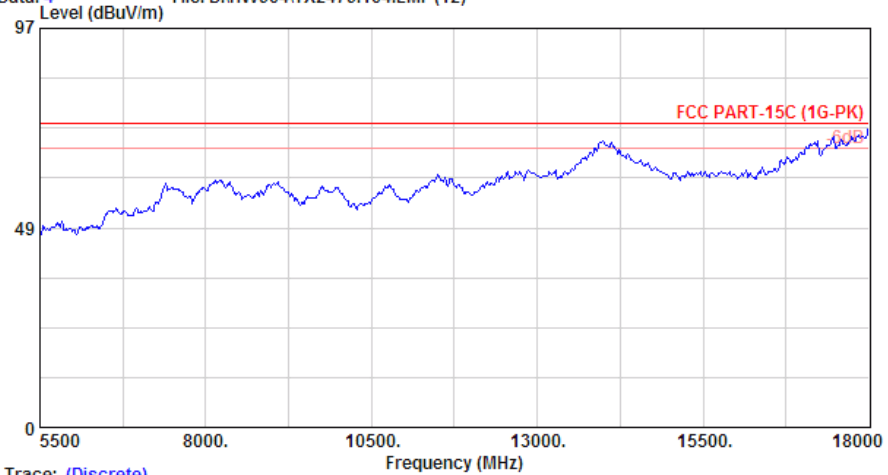
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



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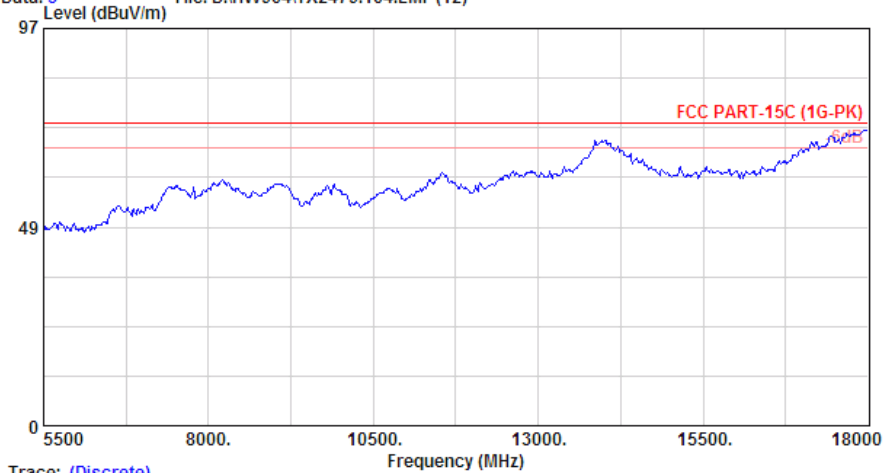
Data: 4 File: D:\HW904\TX2479.104.EMI (12)



Trace: (Discrete)

Site no. :	A/C Chamber	Data no. :	4
Dis. / Ant. :	3m 3115	Ant. pol. :	HORIZONTAL
Limit :	FCC PART-15C (1G-PK)		
Env. / Ins. :	8564EC 22°C/48%	Engineer :	Jarwei Wang
EUT :	DVD Receiver M/N: HW904PA		
Power Rating :	120Vac/60Hz		
Test Mode :	TX2479.104MHz		

Data: 3 File: D:\HW904\TX2479.104.EMI (12)

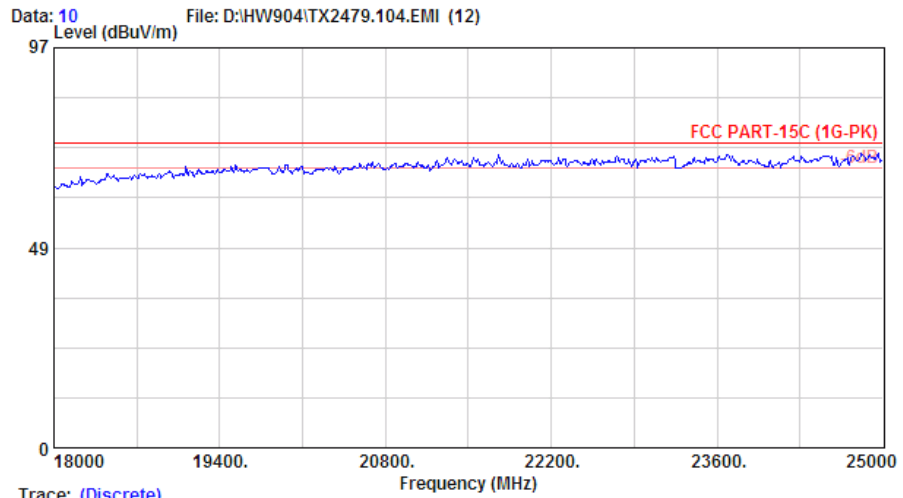


Trace: (Discrete)

Site no. :	A/C Chamber	Data no. :	3
Dis. / Ant. :	3m 3115	Ant. pol. :	VERTICAL
Limit :	FCC PART-15C (1G-PK)		
Env. / Ins. :	8564EC 22°C/48%	Engineer :	Jarwei Wang
EUT :	DVD Receiver M/N: HW904PA		
Power Rating :	120Vac/60Hz		
Test Mode :	TX2479.104MHz		

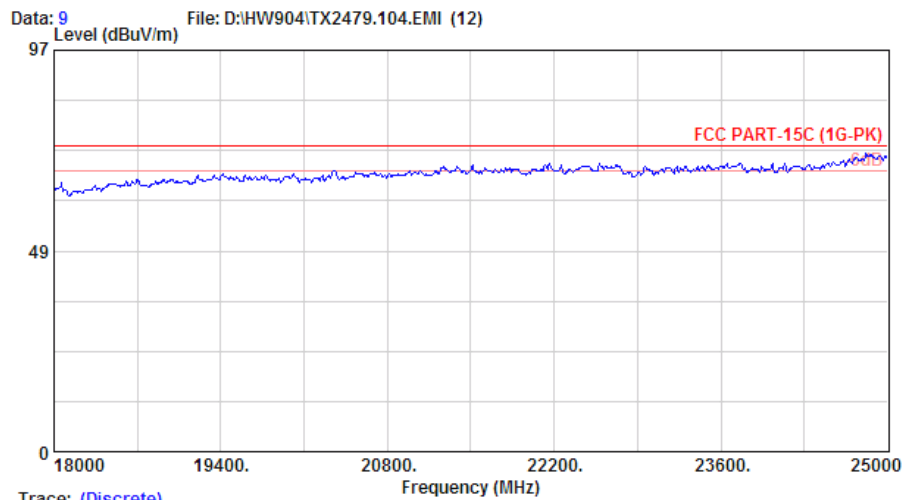


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Trace: (Discrete)

Site no.	: site	Data no.	: 10
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



Trace: (Discrete)

Site no.	: site	Data no.	: 9
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW904PA		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

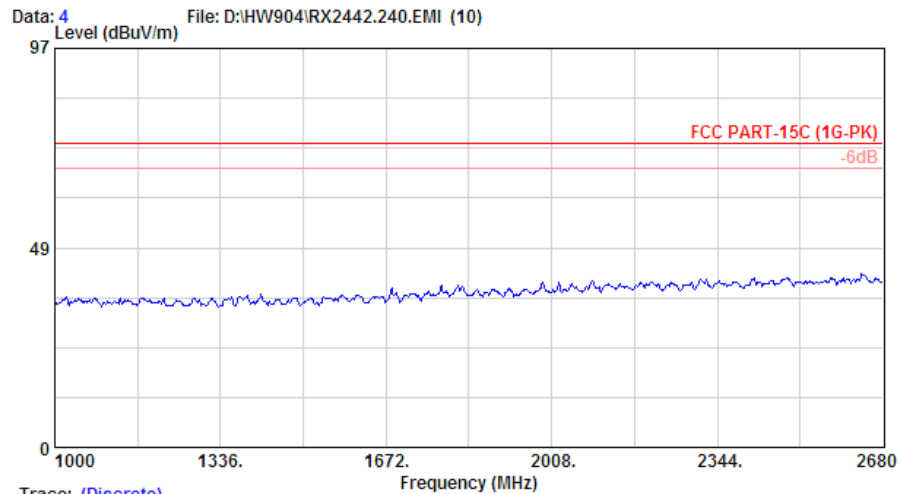
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW904PA

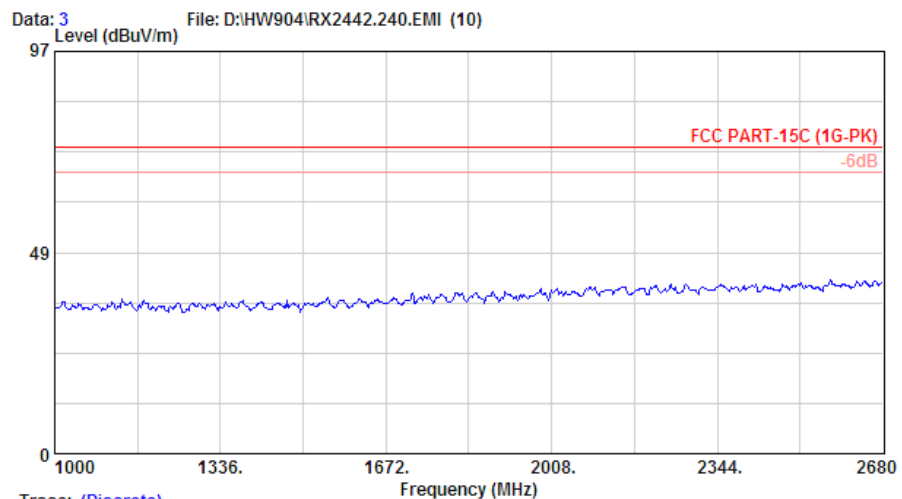
Test Mode : Receiving Mode, Frequency: Test Voltage : AC 120V/60Hz
2442.240MHz (CH19)



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Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : RX2442.240MHz

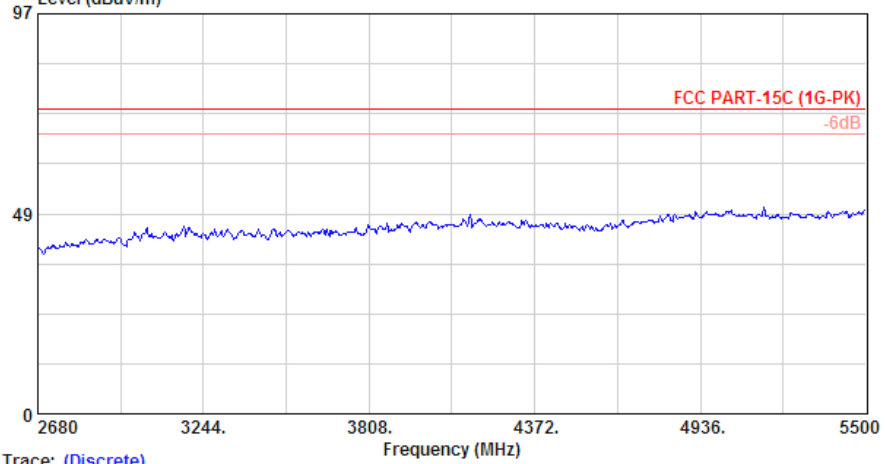


Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : RX2442.240MHz



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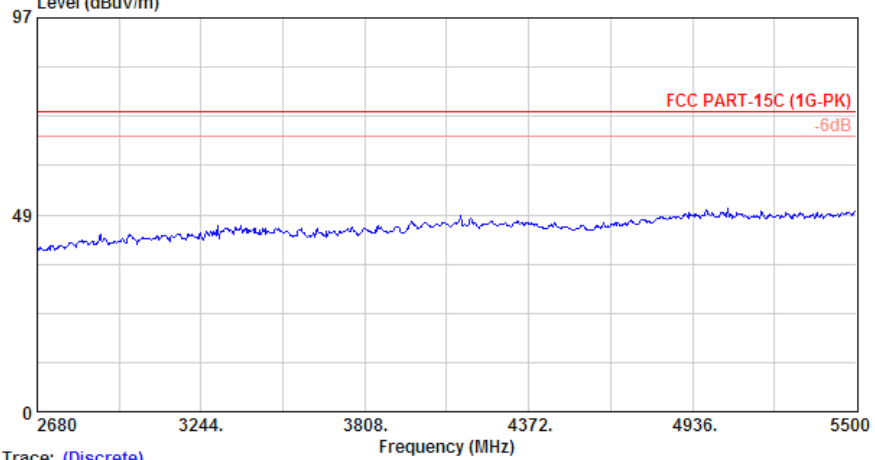
Data: 5 File: D:\HW904\RX2442.240.EMI (10)
Level (dBuV/m)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 5
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	

Data: 6 File: D:\HW904\RX2442.240.EMI (10)
Level (dBuV/m)



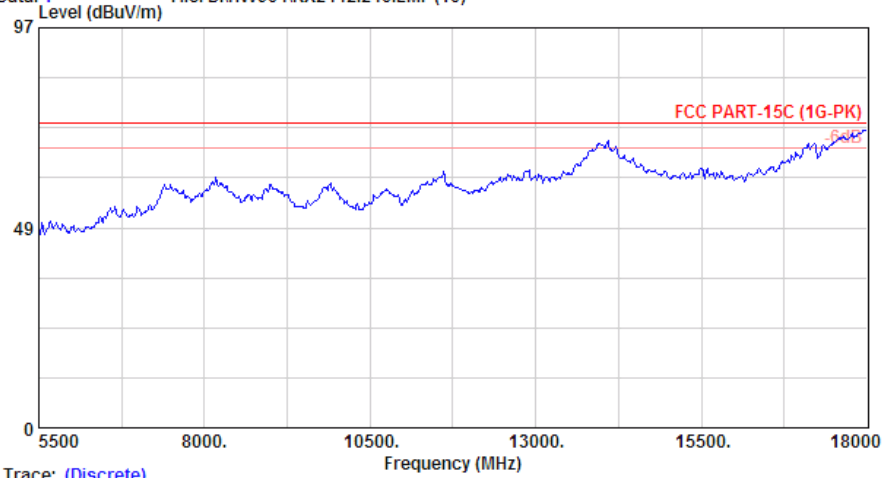
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 6
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	



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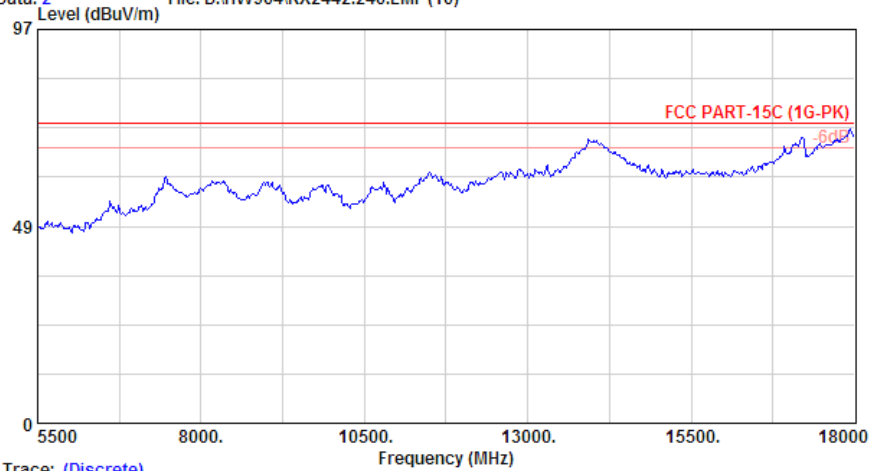
Data: 1 File: D:\HW904\RX2442.240.EMI (10)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 1
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	

Data: 2 File: D:\HW904\RX2442.240.EMI (10)

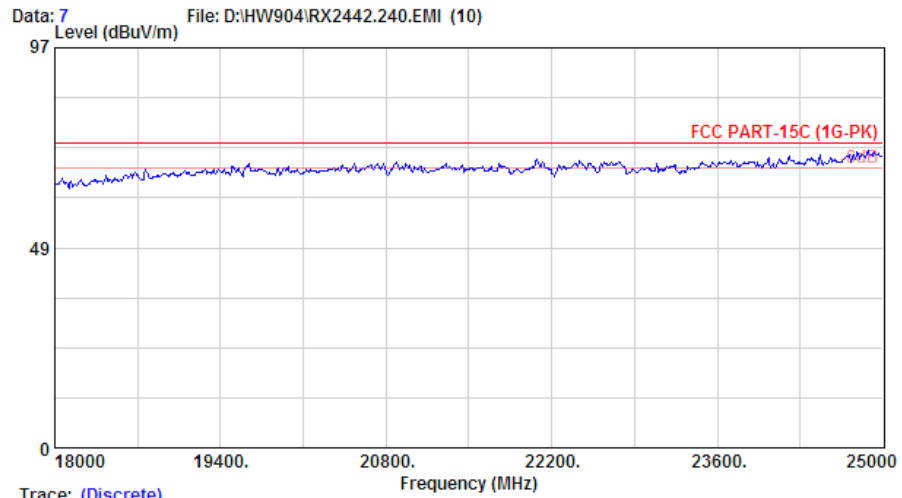


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 2
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	

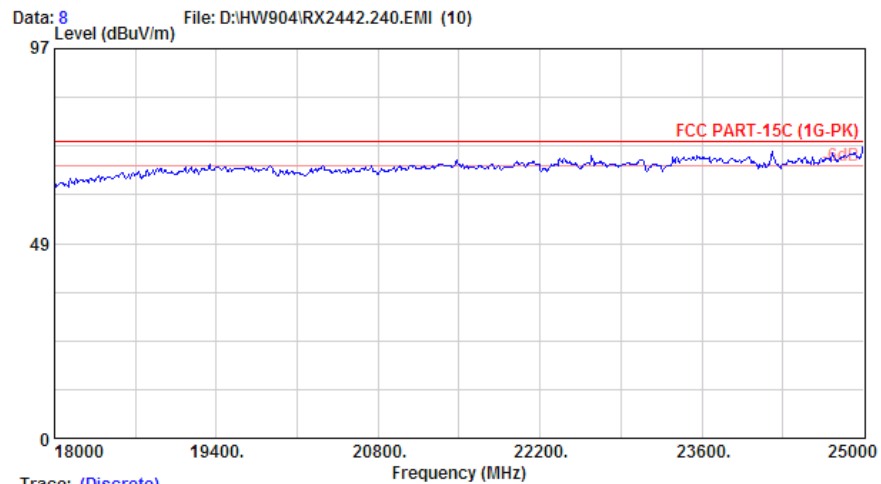


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Trace: (Discrete)

Site no. : site	Data no. : 7
Dis. / Ant. : 3m 3116	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	



Trace: (Discrete)

Site no. : site	Data no. : 8
Dis. / Ant. : 3m 3116	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW904PA	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	

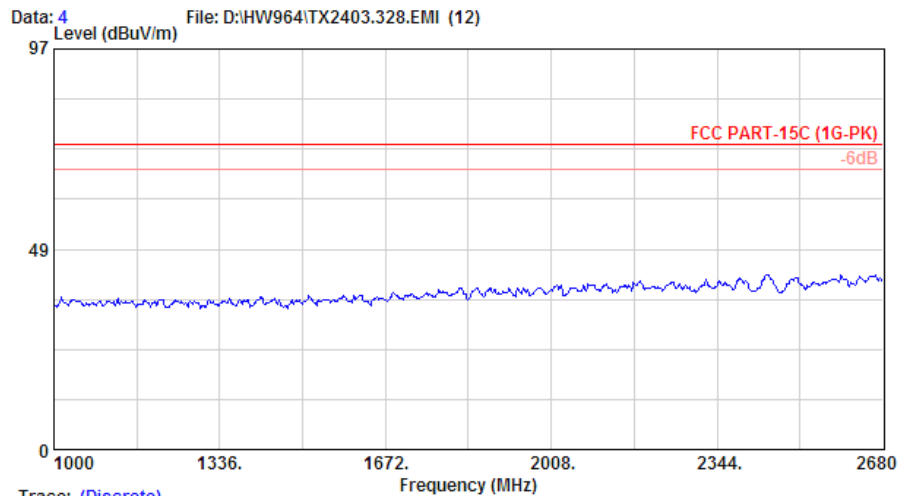
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N HW964TZ Humidity : 48%

Test Mode : Transmitting Mode, Frequency: 2403.328MHz (CH0) Test Voltage : AC 120V/60Hz

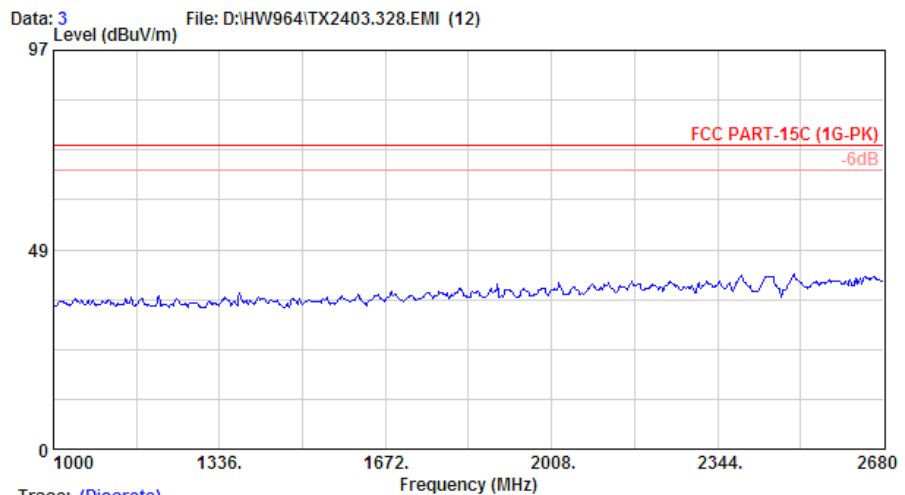


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Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		



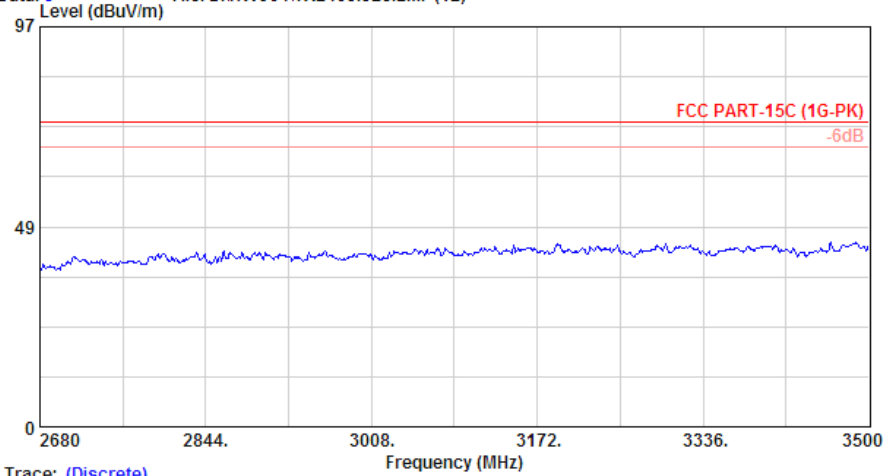
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		



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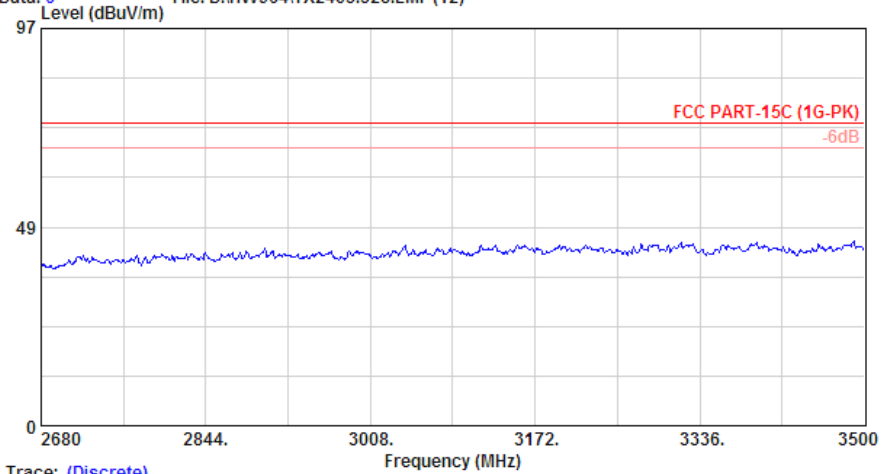
Data: 5 File: D:\HW964\TX2403.328.EMI (12)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		

Data: 6 File: D:\HW964\TX2403.328.EMI (12)



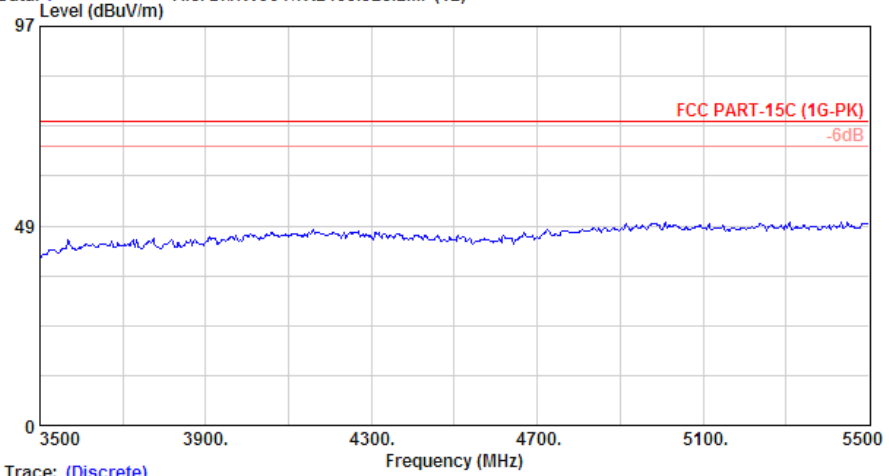
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 6
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		



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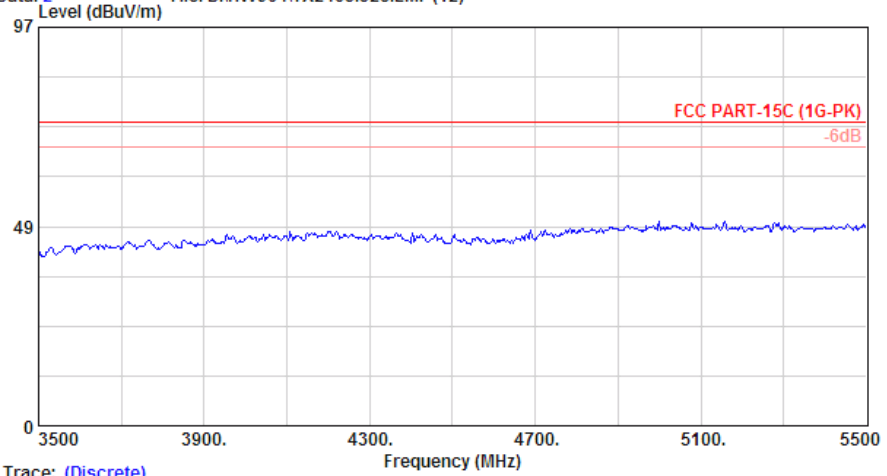
Data: 1 File: D:\HW964\TX2403.328.EMI (12)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		

Data: 2 File: D:\HW964\TX2403.328.EMI (12)



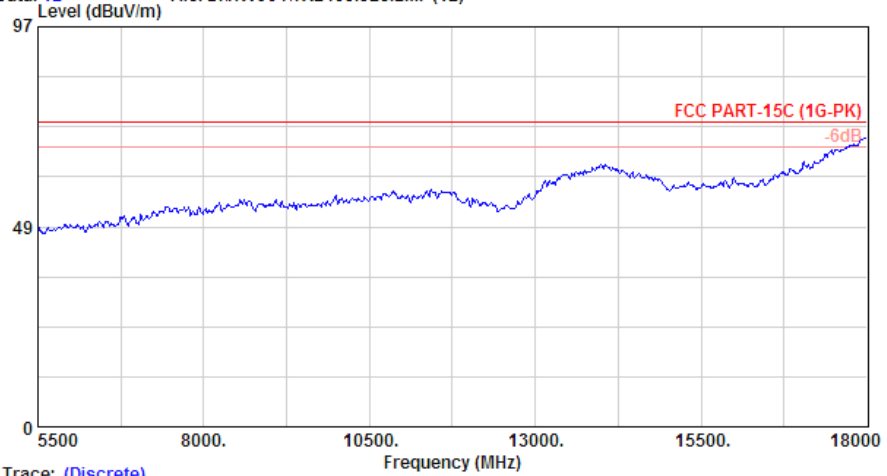
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2403.328MHz		



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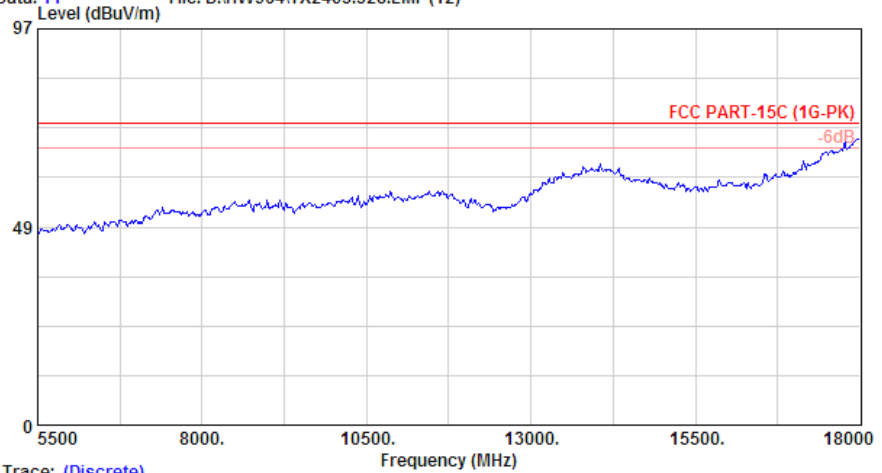
Data: 12 File: D:\HW964\TX2403.328.EMI (12)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 12
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	

Data: 11 File: D:\HW964\TX2403.328.EMI (12)

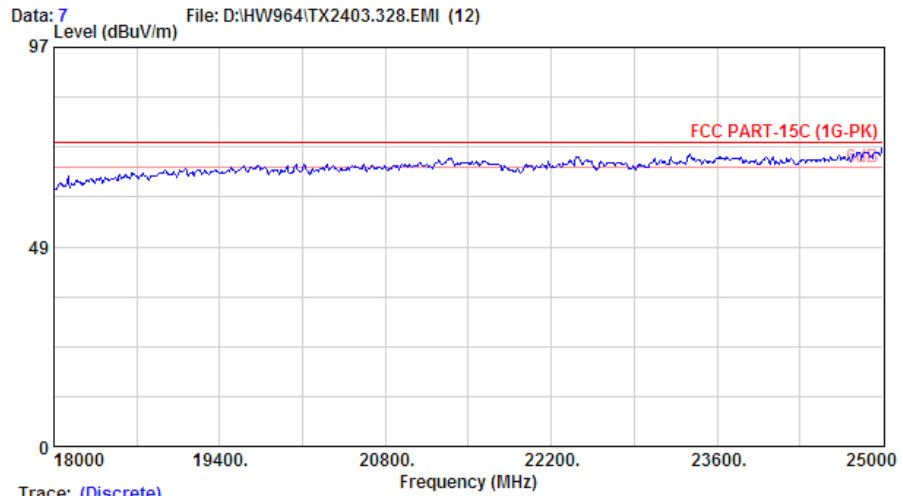


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 11
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	

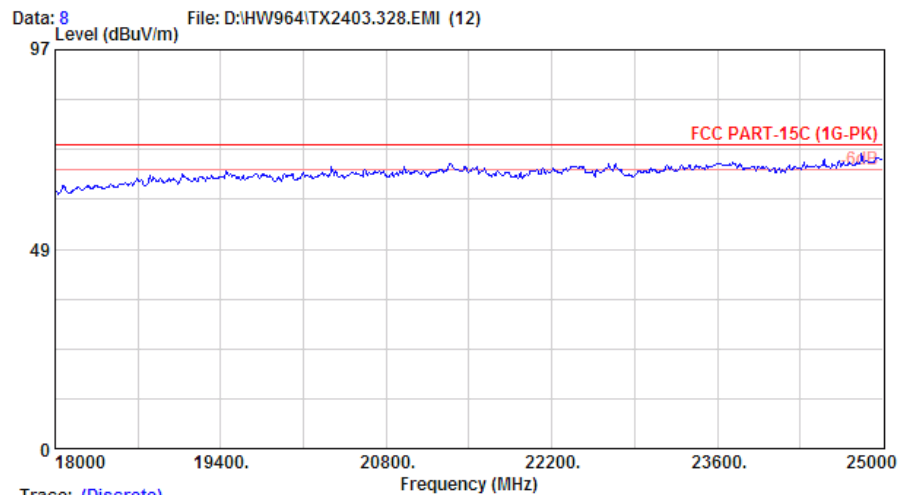


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Trace: (Discrete)

Site no. : site	Data no. : 7
Dis. / Ant. : 3m 3116	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	



Trace: (Discrete)

Site no. : site	Data no. : 8
Dis. / Ant. : 3m 3116	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2403.328MHz	

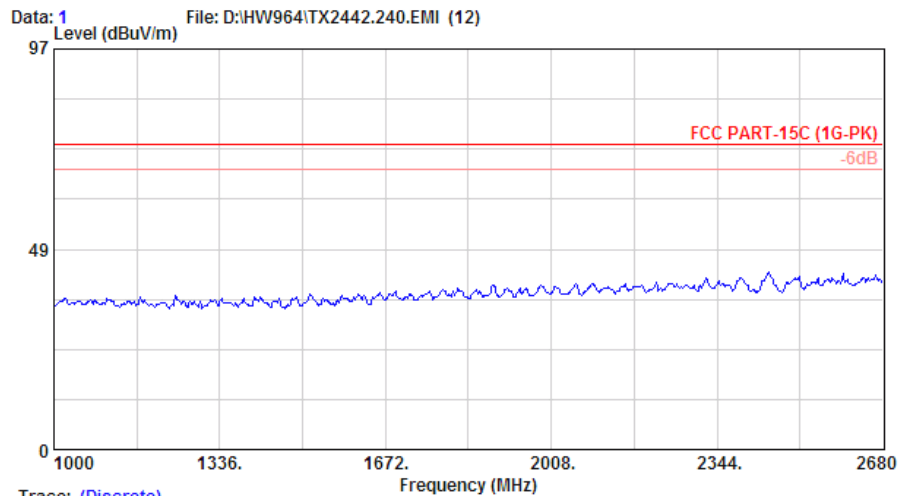
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW964TZ

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2442.240MHz (CH19)

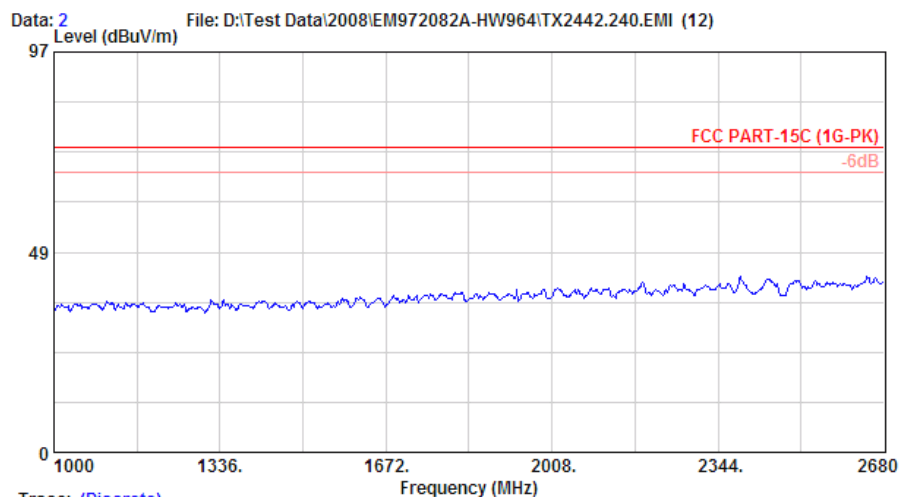


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Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 1
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	



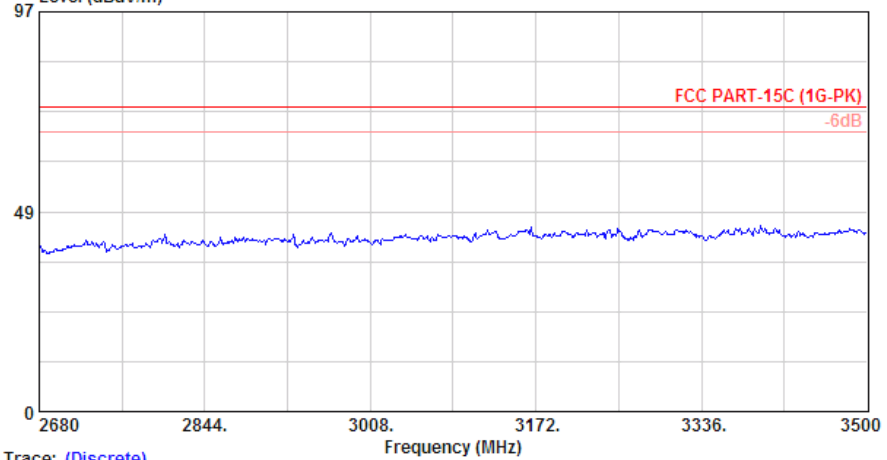
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 2
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	



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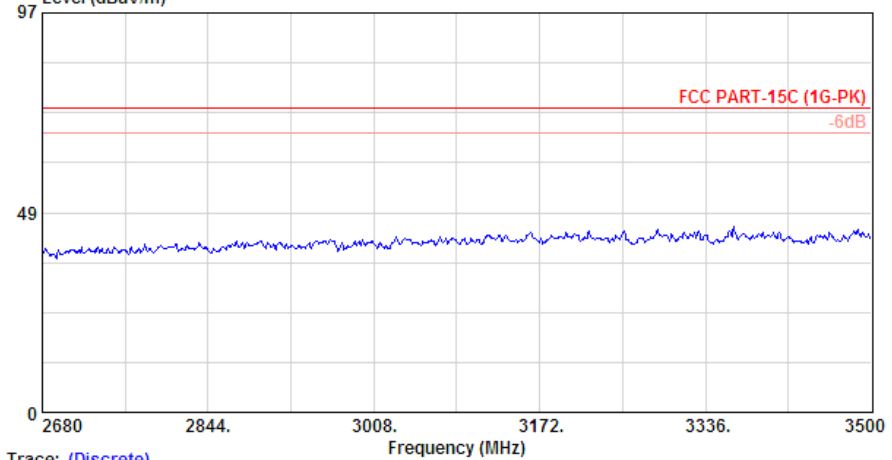
Data: 4 File: D:\Test Data\2008\EM972082A-HW964\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 4
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	

Data: 3 File: D:\Test Data\2008\EM972082A-HW964\TX2442.240.EMI (12)
Level (dBuV/m)



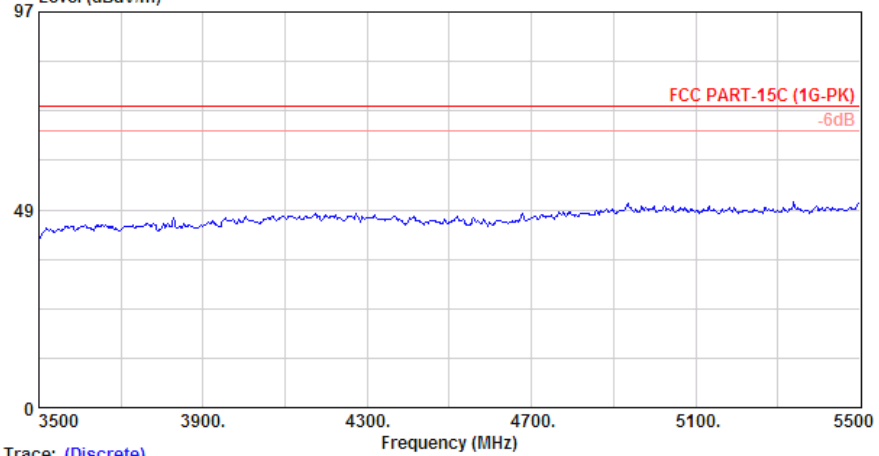
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 3
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	



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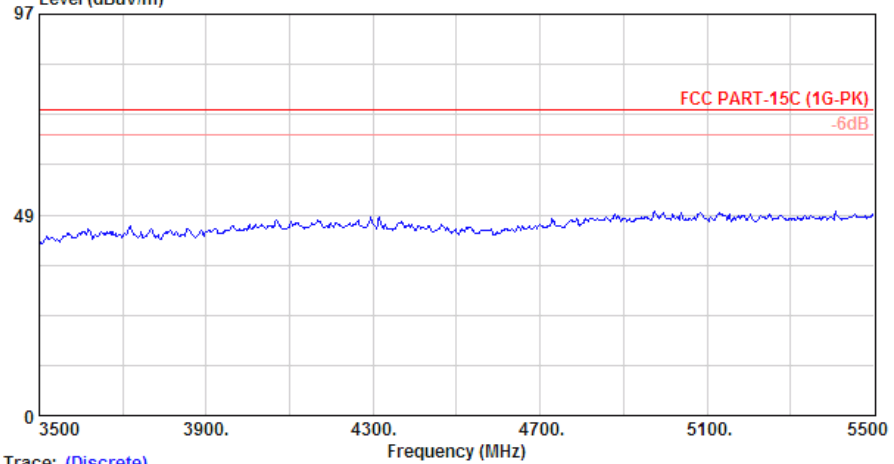
Data: 5 File: D:\Test Data\2008\EM972082A-HW964\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 5
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	Engineer : Jarwei Wang
Env. / Ins. : 8564EC 22°C/48%	
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	

Data: 6 File: D:\Test Data\2008\EM972082A-HW964\TX2442.240.EMI (12)
Level (dBuV/m)

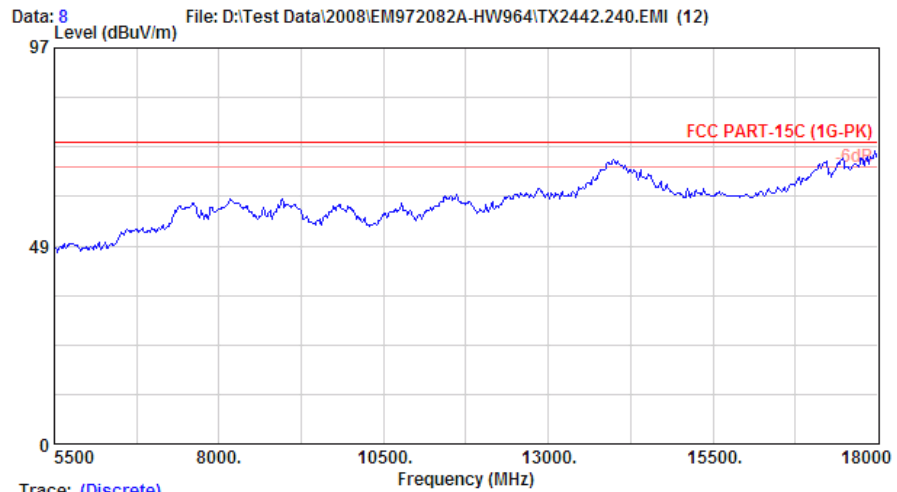


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 6
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	Engineer : Jarwei Wang
Env. / Ins. : 8564EC 22°C/48%	
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	

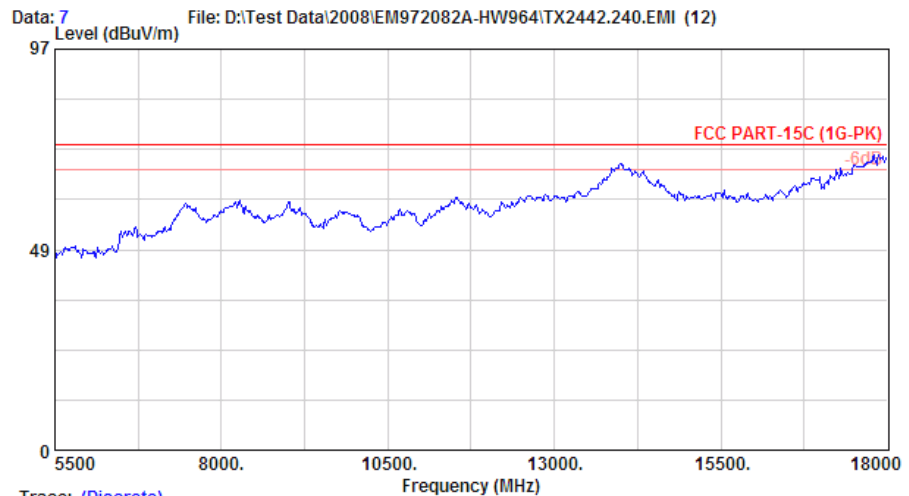


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Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 8
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	



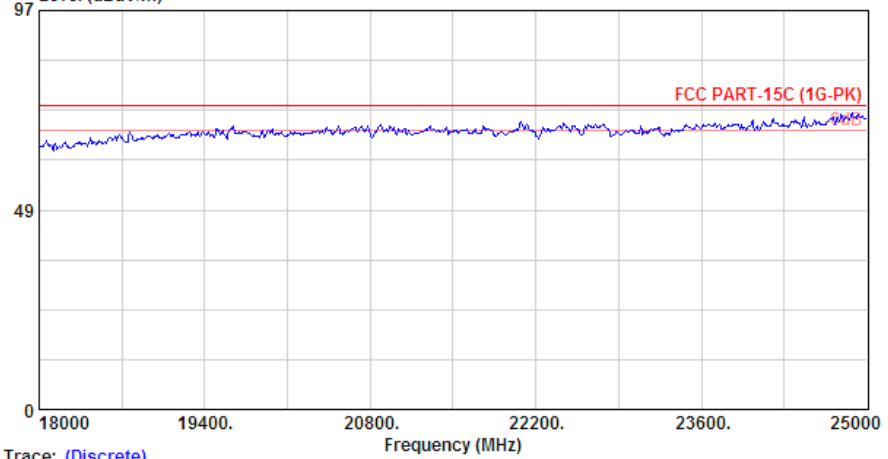
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 7
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2442.240MHz	



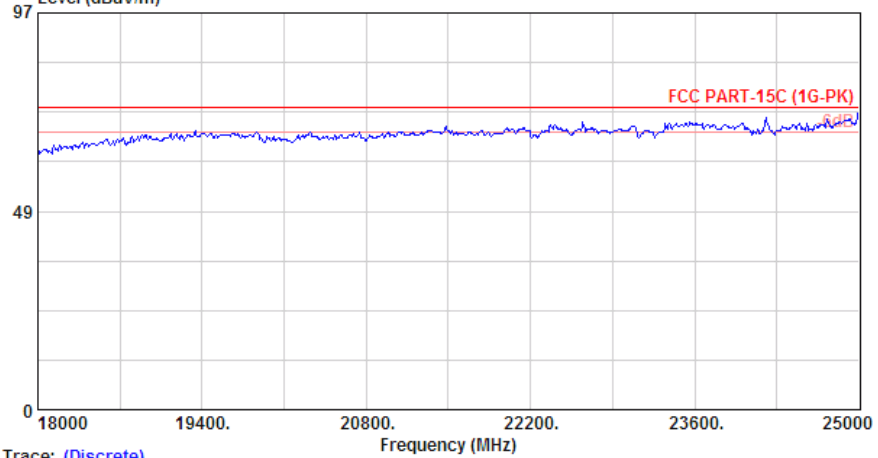
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Data: 9 File: D:\Test Data\2008\EM972082A-HW964\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : site Data no. : 9
Dis. / Ant. : 3m 3116 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

Data: 10 File: D:\Test Data\2008\EM972082A-HW964\TX2442.240.EMI (12)
Level (dBuV/m)



Trace: (Discrete)
Site no. : site Data no. : 10
Dis. / Ant. : 3m 3116 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ
Power Rating : 120Vac/60Hz
Test Mode : TX2442.240MHz

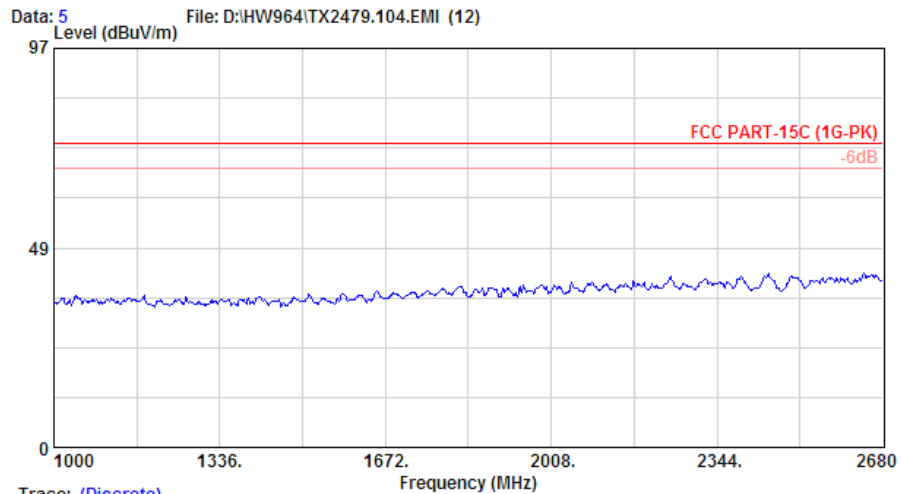
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N HW964TZ Humidity : 48%

Test Mode : Transmitting Mode, Frequency: 2479.104MHz (CH37) Test Voltage : AC 120V/60Hz

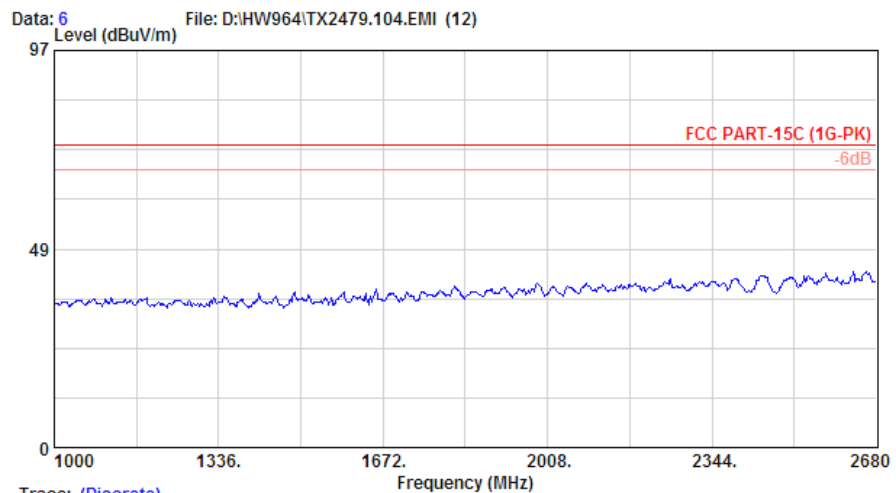


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Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



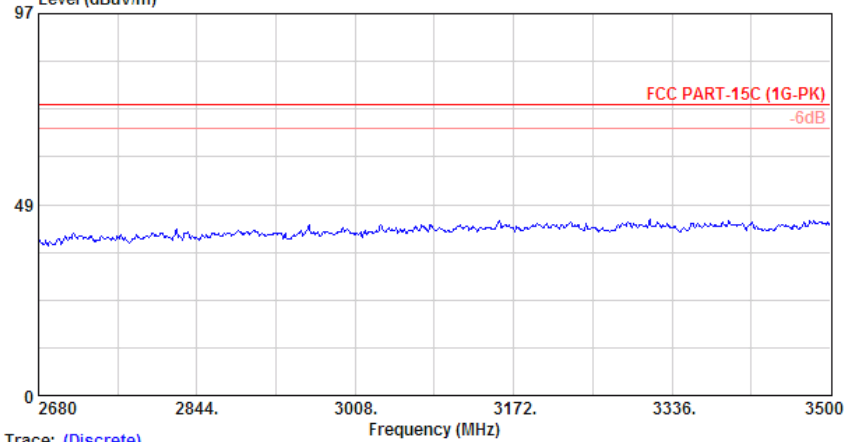
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 6
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



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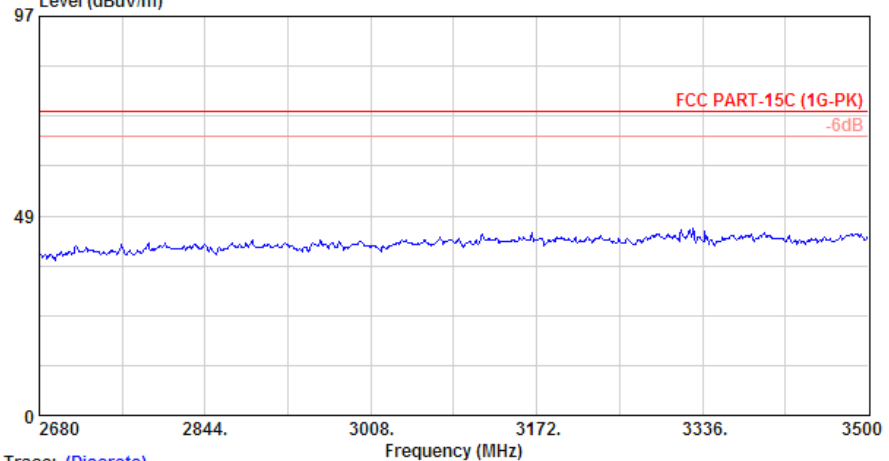
Data: 8 File: D:\HW964\TX2479.104.EMI (12)
Level (dBuV/m)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 8
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2479.104MHz	

Data: 7 File: D:\HW964\TX2479.104.EMI (12)
Level (dBuV/m)



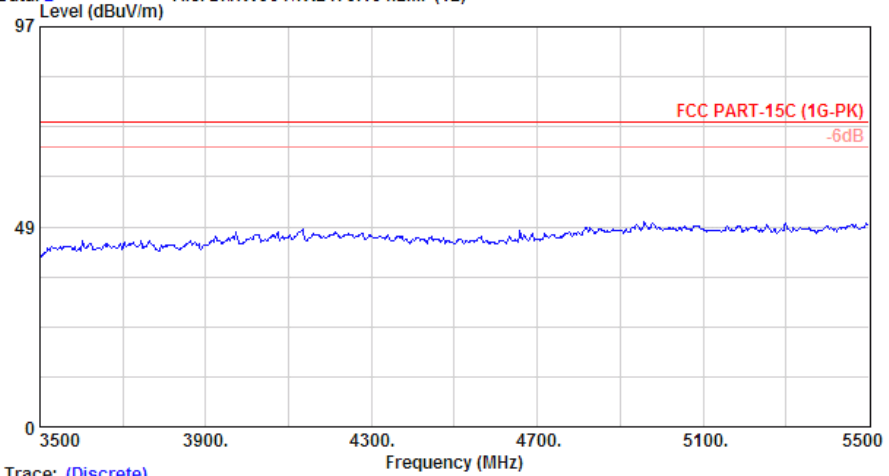
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 7
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8564EC 22°C/48%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : TX2479.104MHz	



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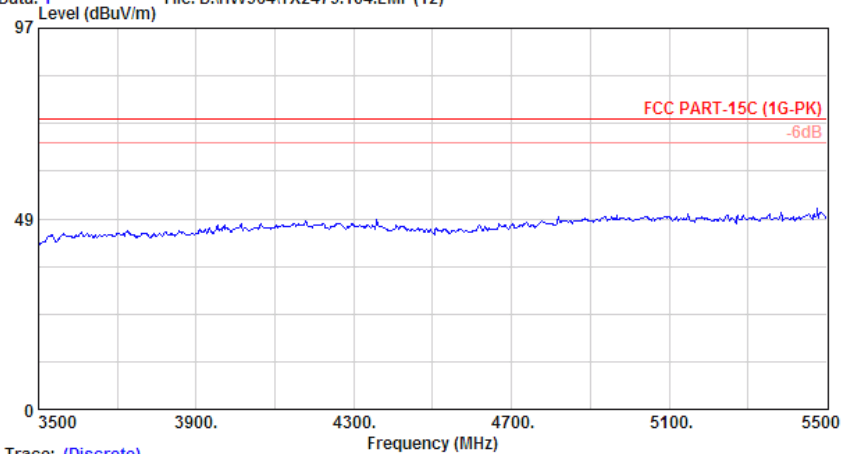
Data: 2 File: D:\HW964\TX2479.104.EMI (12)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

Data: 1 File: D:\HW964\TX2479.104.EMI (12)



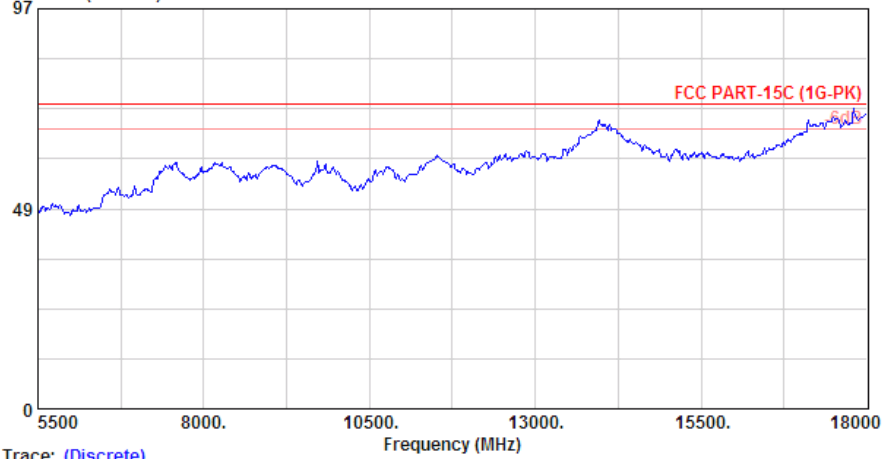
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



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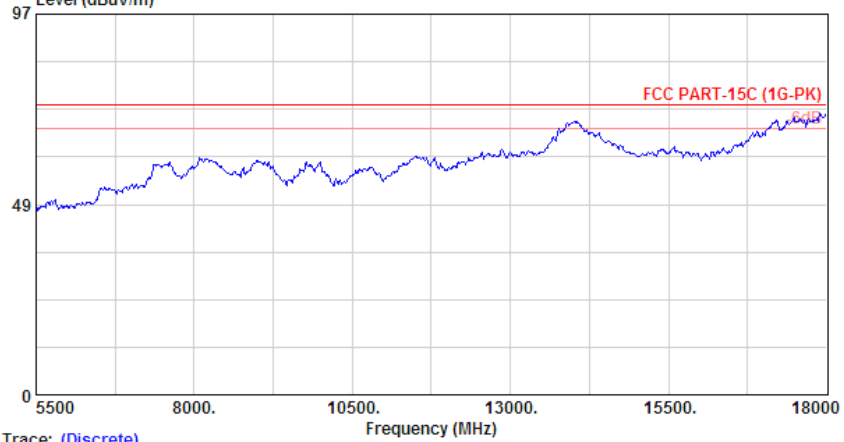
Data: 3 File: D:\HW964\TX2479.104.EMI (12)
 Level (dBuV/m)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

Data: 4 File: D:\HW964\TX2479.104.EMI (12)
 Level (dBuV/m)



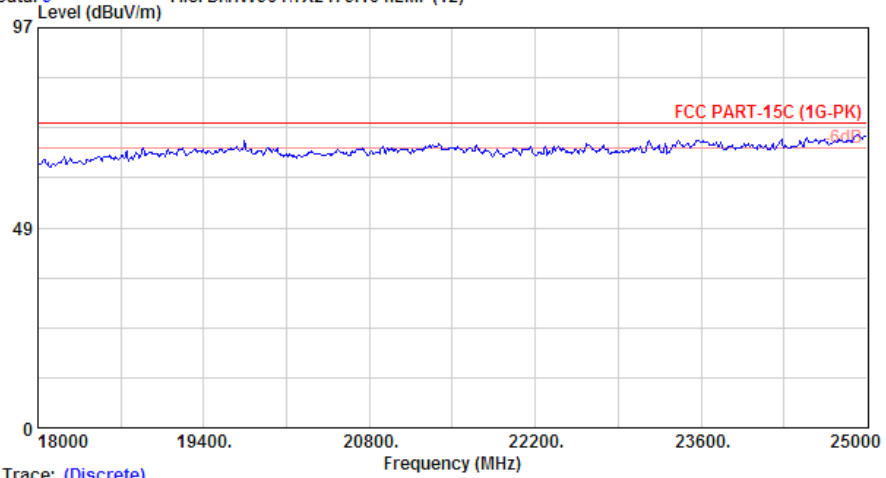
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		



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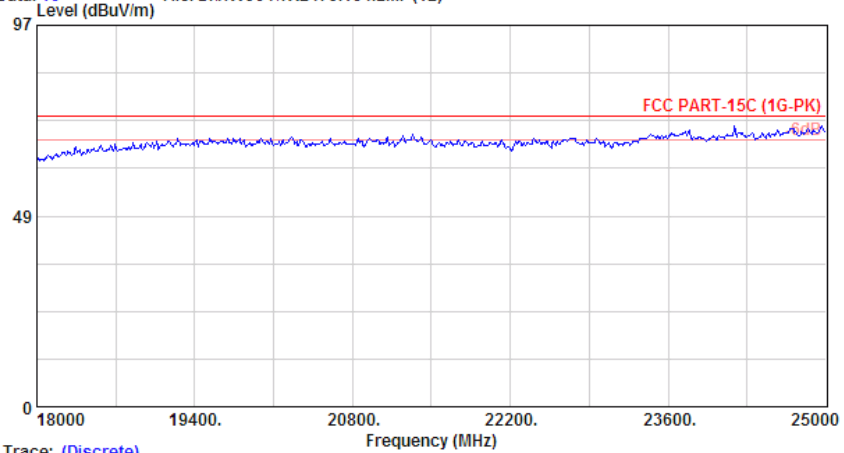
Data: 9 File: D:\HW964\TX2479.104.EMI (12)



Trace: (Discrete)

Site no.	: site	Data no.	: 9
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

Data: 10 File: D:\HW964\TX2479.104.EMI (12)



Trace: (Discrete)

Site no.	: site	Data no.	: 10
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 22°C/48%		
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2479.104MHz		

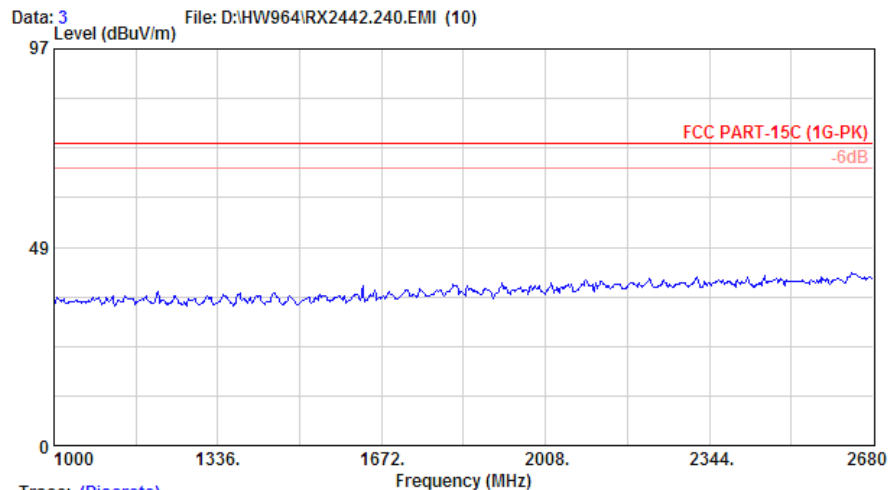
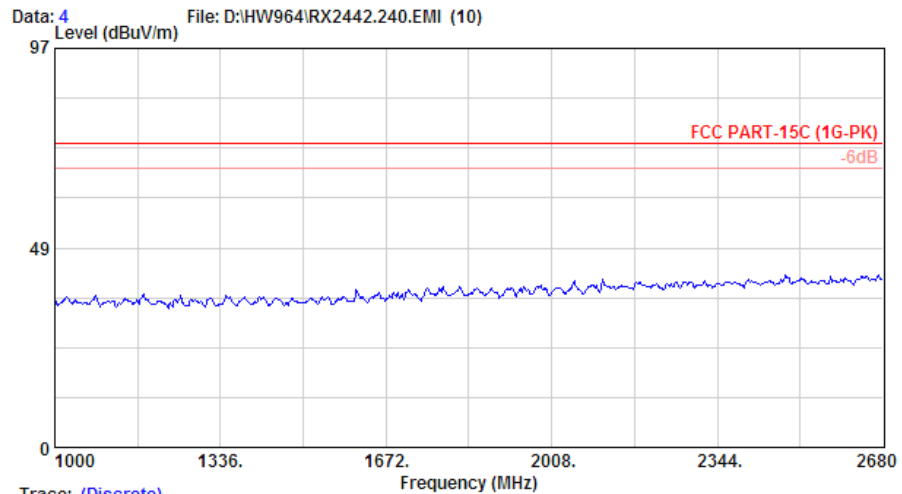
Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW964TZ

Test Mode : Receiving Mode, Frequency: Test Voltage : AC 120V/60Hz
2442.240MHz (CH19)



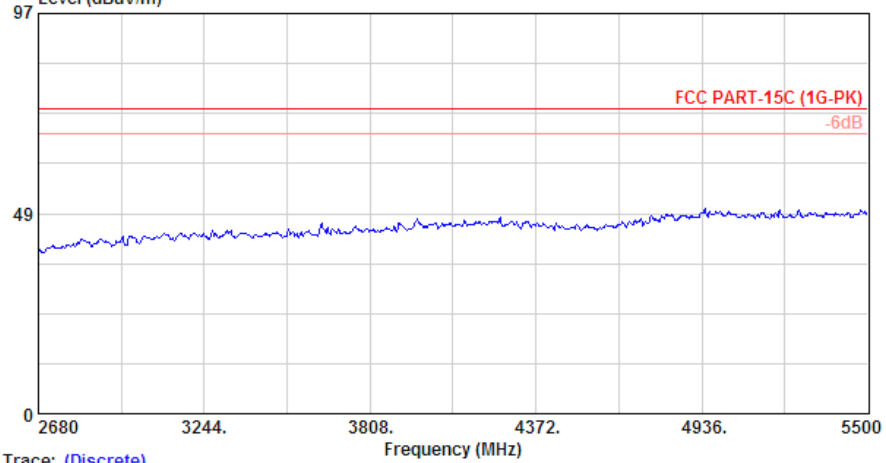
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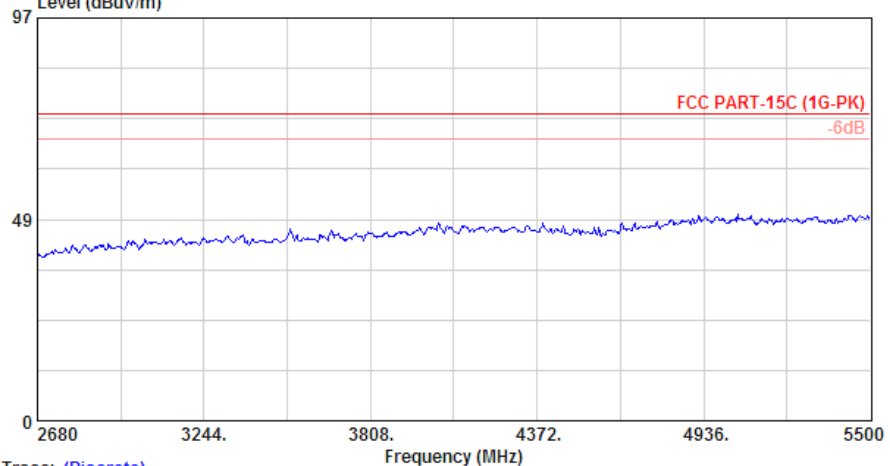
Data: 5 File: D:\HW964\RX2442.240.EMI (10)
Level (dBuV/m)



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 5
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8593EM 24°C/41%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	

Data: 6 File: D:\HW964\RX2442.240.EMI (10)
Level (dBuV/m)



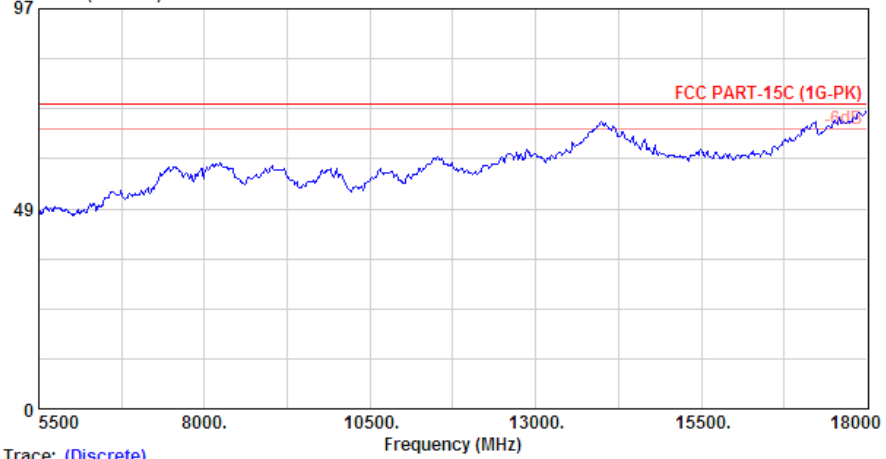
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 6
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)	
Env. / Ins. : 8593EM 24°C/41%	Engineer : Jarwei Wang
EUT : DVD Receiver M/N: HW964TZ	
Power Rating : 120Vac/60Hz	
Test Mode : RX2442.240MHz	



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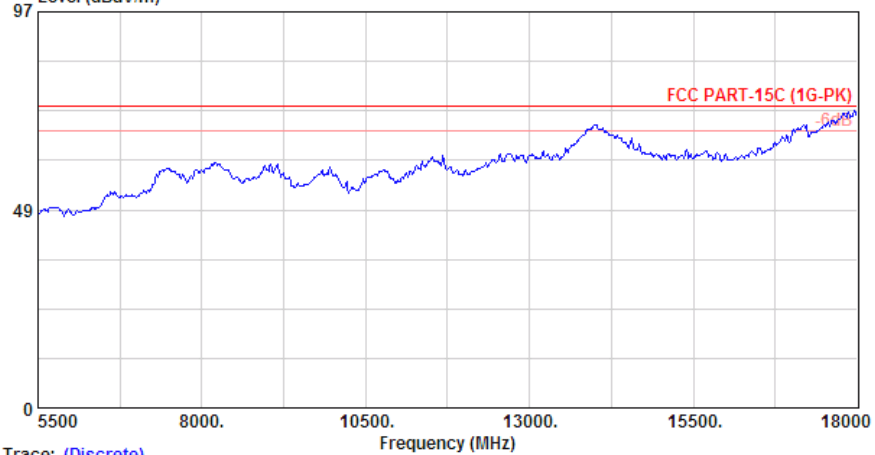
Data: 1 File: D:\HW964\RX2442.240.EMI (10)
Level (dBuV/m)



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2442.240MHz		

Data: 2 File: D:\HW964\RX2442.240.EMI (10)
Level (dBuV/m)



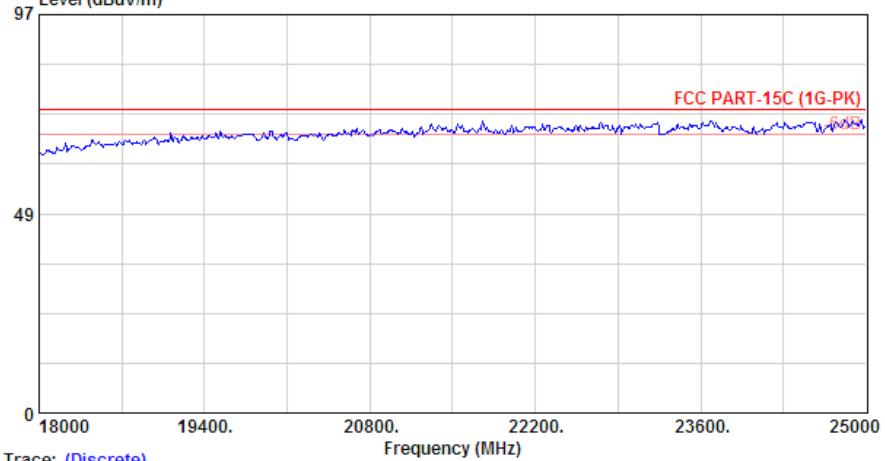
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 22°C/48%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2442.240MHz		



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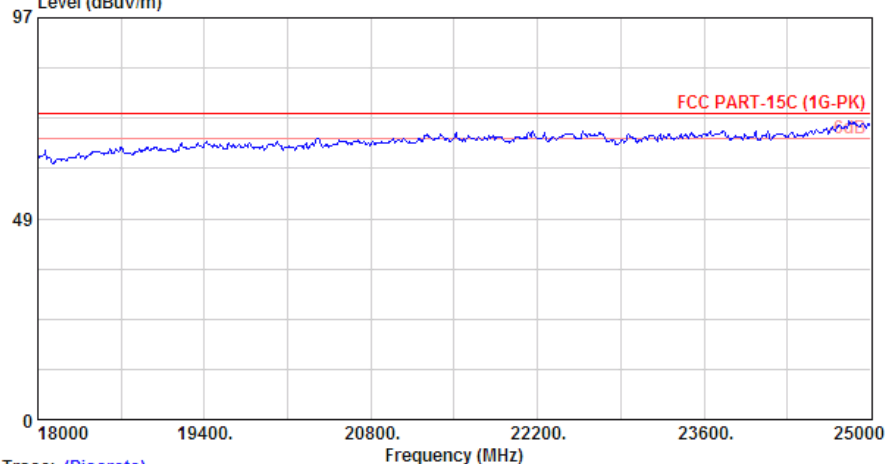
Data: 8 File: D:\HW964\RX2442.240.EMI (10)
Level (dBuV/m)



Trace: (Discrete)

Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 24°C/41%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2442.240MHz		

Data: 7 File: D:\HW964\RX2442.240.EMI (10)
Level (dBuV/m)



Trace: (Discrete)

Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 24°C/41%	Engineer	: Jarwei Wang
EUT	: DVD Receiver M/N: HW964TZ		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2442.240MHz		

3.6.3. Restricted Bands Measurement Results

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW904PA

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2403.328MHz (CH0)

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Peak *	2378.090	28.58	5.18	10.83	44.59	74.00	29.41
Average *	2378.640	28.58	5.18	-4.50	29.26	54.00	24.74

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

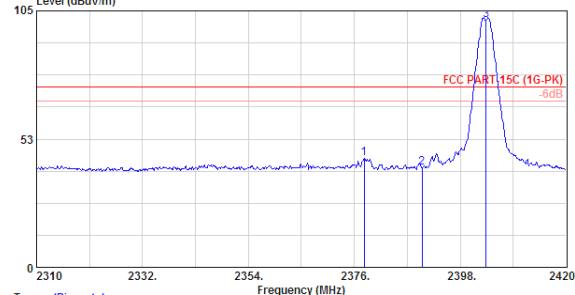


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Data: 1 Level (dBuV/m) File: D:\HW904\out of band.EMI (8)

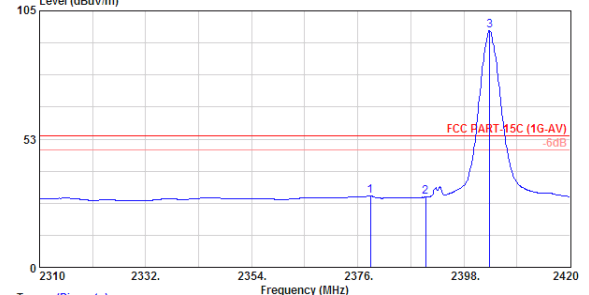


Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2378.090	28.58	5.18	10.83	44.58	74.00	29.42	Peak
2	2390.080	28.59	5.22	6.97	40.78	74.00	33.22	Peak
3	2403.390	28.62	5.22	67.15	100.99	74.00	-26.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 4 Level (dBuV/m) File: D:\HW904\out of band.EMI (8)



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2378.640	28.58	5.18	-4.50	29.26	54.00	24.74	Average
2	2390.080	28.59	5.22	-5.04	28.77	54.00	25.23	Average
3	2403.390	28.62	5.22	63.27	97.11	54.00	-43.11	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N HW904PA Humidity : 48%

Test Mode : Transmitting Mode, Frequency: 2403.328MHz (CH0) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2378.420	28.58	5.18	9.81	43.57	74.00	30.43
Average *	2378.420	28.58	5.18	-4.31	29.45	54.00	24.55

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

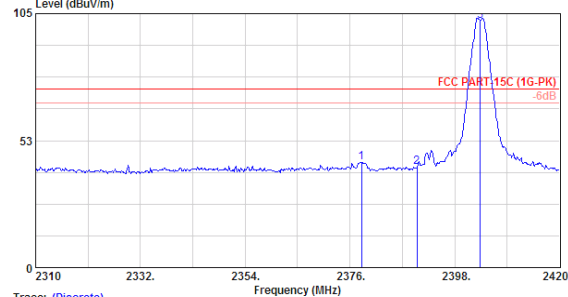


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Data: 2 Level (dB μ V/m) File: D:\HW904\out of band.EMI (8)

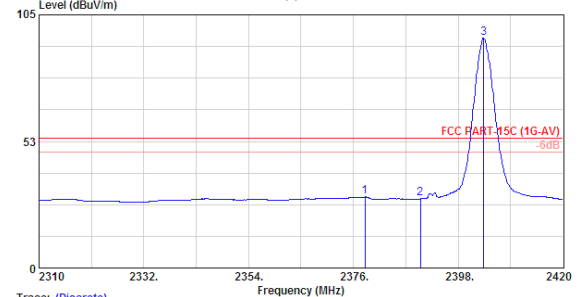


Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.420	28.58	5.18	9.81	43.57	74.00	30.43	Peak
2	2390.080	28.59	5.22	7.58	41.39	74.00	32.61	Peak
3	2403.390	28.62	5.22	68.13	101.97	74.00	-27.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 3 Level (dB μ V/m) File: D:\HW904\out of band.EMI (8)



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.420	28.58	5.18	-4.31	29.45	54.00	24.55	Average
2	2390.080	28.59	5.22	-5.16	28.65	54.00	25.35	Average
3	2403.390	28.62	5.22	61.73	95.57	54.00	-41.57	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW904PA

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2479.104MHz (CH37)

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2483.820	28.77	5.23	15.58	49.58	74.00	24.42
Average *	2483.580	28.77	5.23	15.36	49.36	54.00	4.64

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

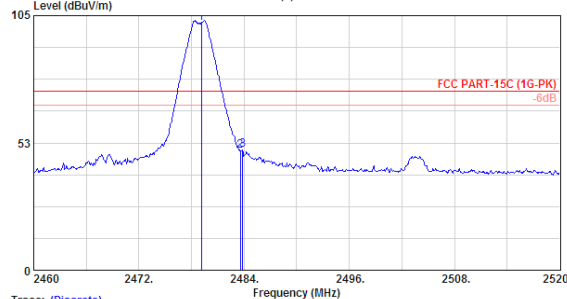


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Data: 5 File: D:\HW904\out of band.EMI (8)

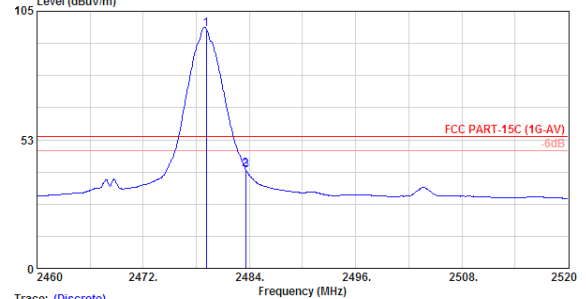


Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2479.140	28.76	5.23	68.02	102.01	74.00	-28.01	Peak
2	2483.580	28.77	5.23	15.26	49.26	74.00	24.74	Peak
3	2483.820	28.77	5.23	15.58	49.58	74.00	24.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 8 File: D:\HW904\out of band.EMI (8)



Trace: (Discrete)
 Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2479.140	28.76	5.23	63.86	97.85	54.00	-43.85	Average
2	2483.580	28.77	5.23	6.52	40.52	54.00	13.48	Average
3	2483.640	28.77	5.23	5.96	39.96	54.00	14.04	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW904PA

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2479.104MHz (CH37)

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Peak *	2483.820	28.77	5.23	15.14	49.14	74.00	24.86
Average *	2483.580	28.77	5.23	6.04	40.04	54.00	13.96

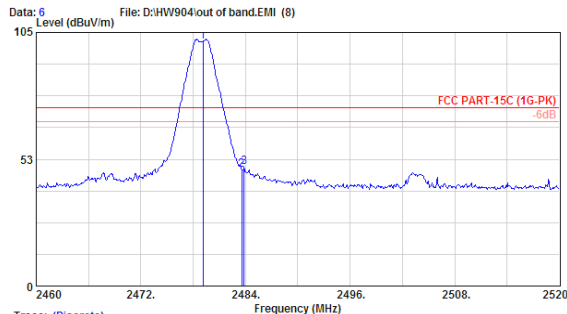
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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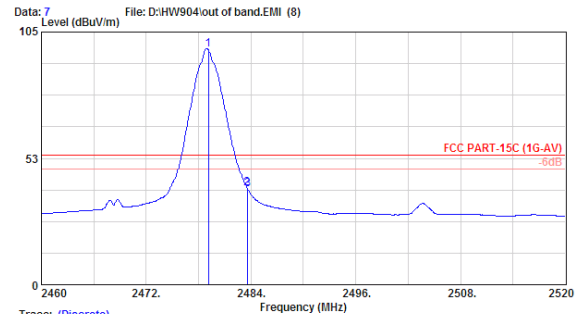
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Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2479.140	28.76	5.23	67.23	101.22	74.00	-27.22	Peak
2	2483.580	28.77	5.23	14.17	48.17	74.00	25.83	Peak
3	2483.820	28.77	5.23	15.14	49.14	74.00	24.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N:HW904PA
 Power Rating : 120Vac/60Hz
 Test Mode : TX2479.104MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2479.140	28.76	5.23	63.63	97.62	54.00	-43.62	Average
2	2483.580	28.77	5.23	6.04	40.04	54.00	13.96	Average
3	2483.640	28.77	5.23	5.49	39.49	54.00	14.51	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N HW964TZ Humidity : 48%

Test Mode : Transmitting Mode, Frequency: 2403.328MHz (CH0) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Peak *	2377.870	28.58	5.18	10.30	44.06	74.00	29.94
Average *	2378.640	28.58	5.18	-3.12	30.64	54.00	23.36

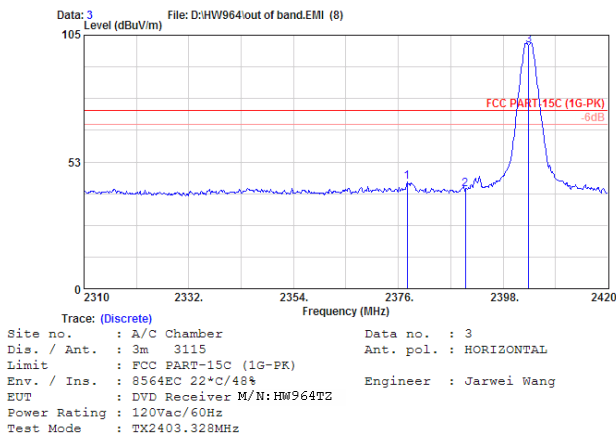
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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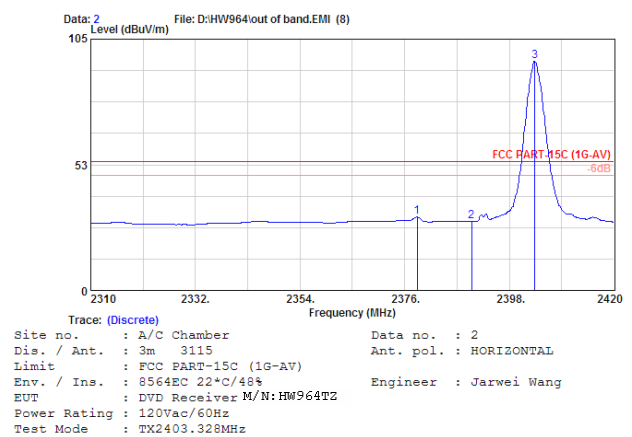


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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2377.870	28.58	5.18	10.30	44.06	74.00	29.94	Peak
2	2390.080	28.59	5.22	7.23	41.04	74.00	32.96	Peak
3	2403.390	28.62	5.22	66.80	100.64	74.00	-26.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.640	28.58	5.18	-3.12	30.64	54.00	23.36	Average
2	2390.080	28.59	5.22	-4.96	28.85	54.00	25.15	Average
3	2403.390	28.62	5.22	62.06	95.90	54.00	-41.90	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW964TZ

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2403.328MHz (CH0)

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Peak *	2378.970	28.58	5.18	10.00	43.76	74.00	30.24
Average *	2378.640	28.58	5.18	-1.22	32.54	54.00	21.46

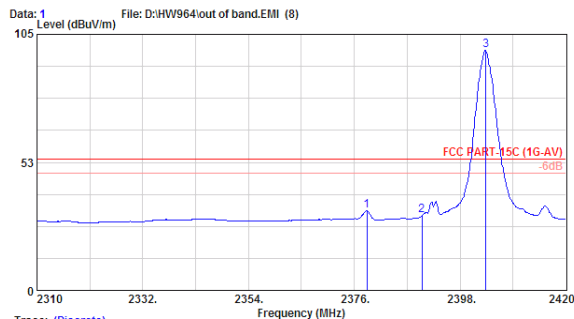
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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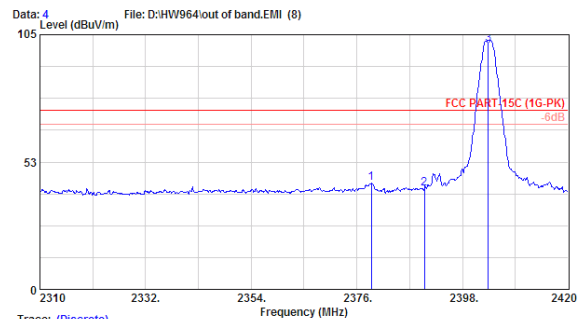
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Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW964TZ
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.640	28.58	5.18	-1.22	32.54	54.00	21.46	Average
2	2390.080	28.59	5.22	-3.18	30.63	54.00	23.37	Average
3	2403.390	28.62	5.22	64.52	98.36	54.00	-44.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 22°C/48% Engineer : Jarwei Wang
 EUT : DVD Receiver M/N: HW964TZ
 Power Rating : 120Vac/60Hz
 Test Mode : TX2403.328MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	2378.970	28.58	5.18	10.00	43.76	74.00	30.24	Peak
2	2390.080	28.59	5.22	7.90	41.71	74.00	32.29	Peak
3	2403.390	28.62	5.22	67.50	101.34	74.00	-27.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N Humidity : 48%
HW964TZ

Test Mode : Transmitting Mode, Frequency: Test Voltage : AC 120V/60Hz
2479.104MHz (CH37)

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Peak *	2483.940	28.77	5.23	15.56	49.56	74.00	24.44
Average *	2483.580	28.77	5.23	6.51	40.51	54.00	13.49

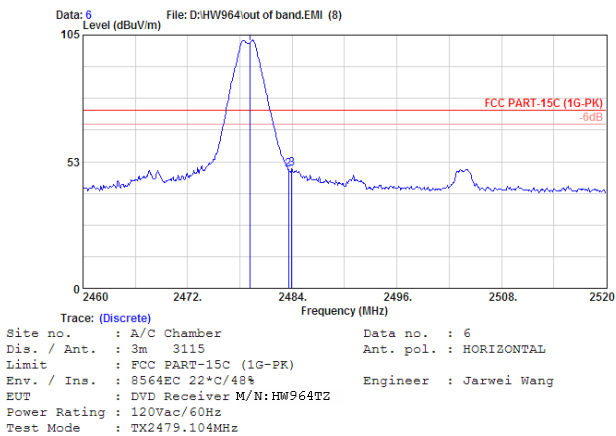
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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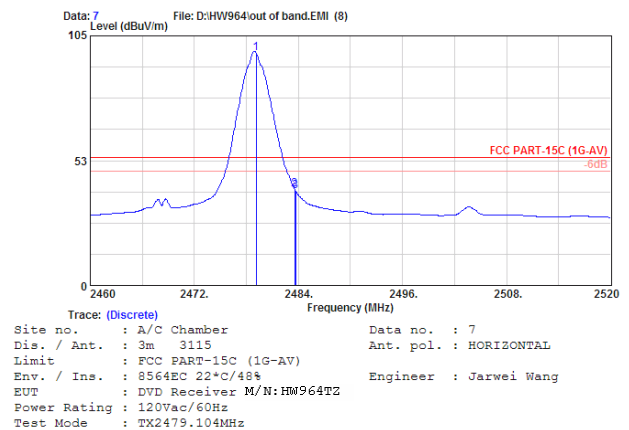


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Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1 2479.140	28.76	5.23	67.72	101.71	74.00	-27.71	Peak
2 2483.580	28.77	5.23	15.07	49.07	74.00	24.93	Peak
3 2483.940	28.77	5.23	15.56	49.56	74.00	24.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1 2479.140	28.76	5.23	63.82	97.81	54.00	-43.81	Average
2 2483.580	28.77	5.23	6.51	40.51	54.00	13.49	Average
3 2483.700	28.77	5.23	5.63	39.64	54.00	14.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Dec. 01, 2008 Temperature : 22°C

EUT : Wireless DVD Receiver, M/N HW964TZ Humidity : 48%

Test Mode : Transmitting Mode, Frequency: 2479.104MHz (CH37) Test Voltage : AC 120V/60Hz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Peak *	2483.820	28.77	5.23	15.06	49.06	74.00	24.94
Average *	2483.580	28.77	5.23	7.28	41.28	54.00	12.72

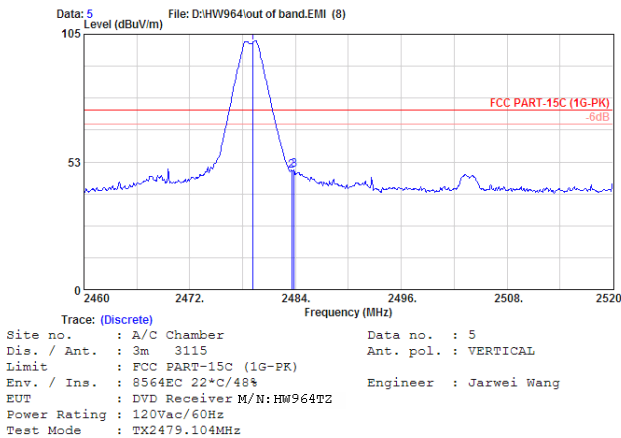
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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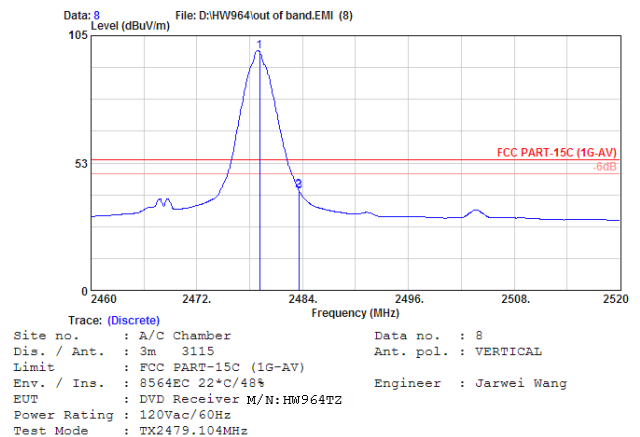


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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2479.140	28.76	5.23	67.51	101.50	74.00	-27.50	Peak
2	2483.580	28.77	5.23	14.90	48.90	74.00	25.10	Peak
3	2483.820	28.77	5.23	15.06	49.06	74.00	24.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2479.140	28.76	5.23	64.28	98.27	54.00	-44.27	Average
2	2483.580	28.77	5.23	7.28	41.28	54.00	12.72	Average
3	2483.640	28.77	5.23	6.74	40.74	54.00	13.26	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

4. 20dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the 20dB bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 08'	Aug. 06, 09'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

4.4. Operating Condition of EUT

- 4.4.1. Set up the EUT and simulator as shown on 4.2.
- 4.4.2. To turn on the power of all equipment.
- 4.4.3. EUT (Wireless DVD Receiver) was on transmitting frequency function during the testing.

4.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.6. Test Results

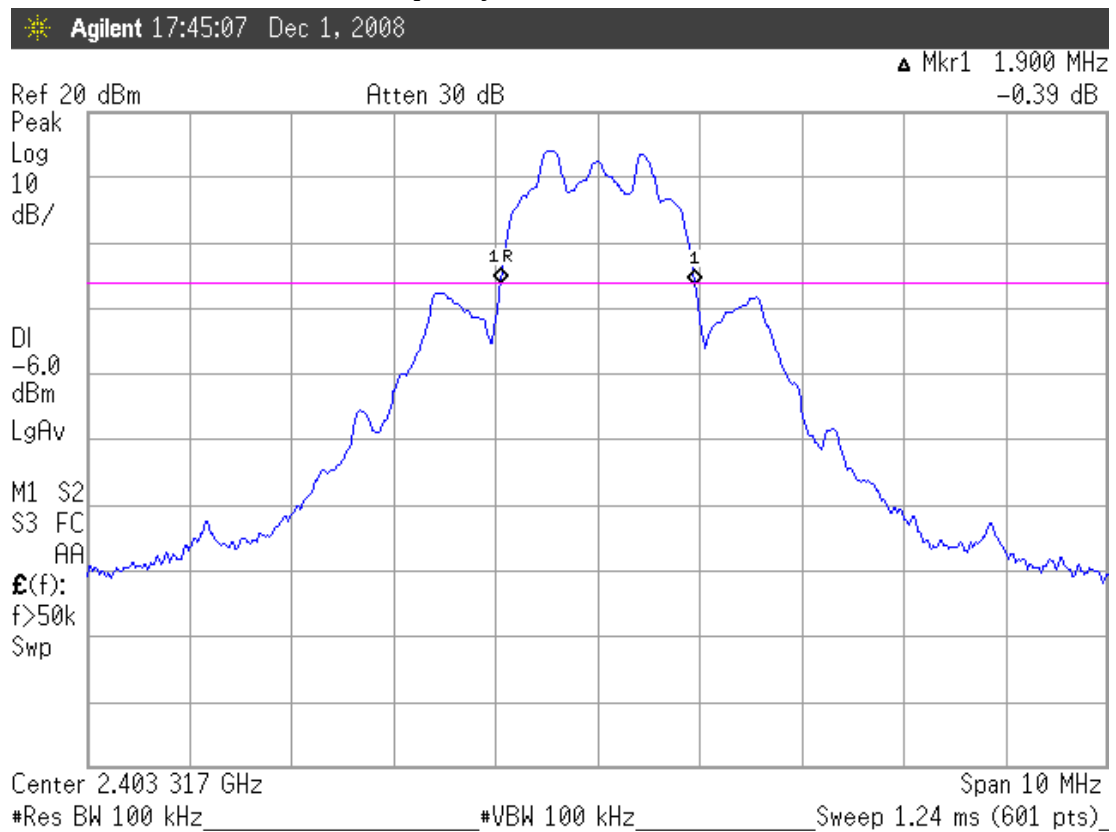
PASSED. All the test results are attached in next pages.

Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

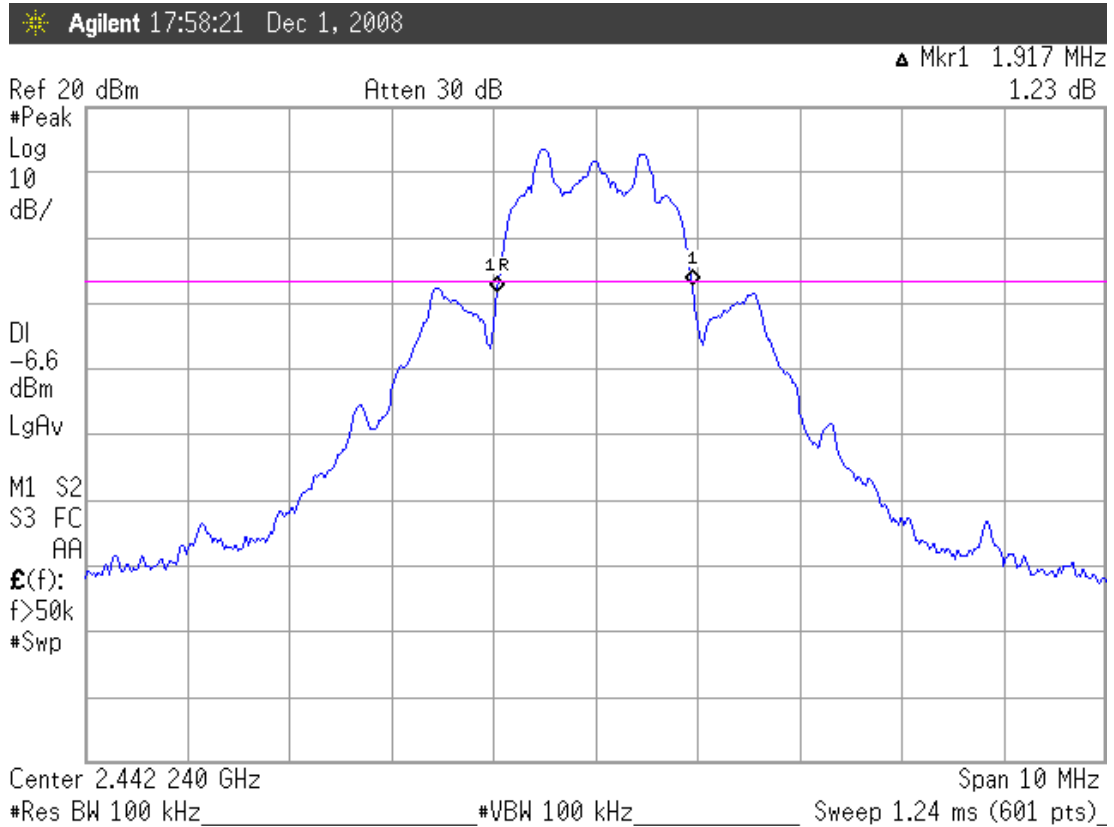
No.	Channel	Test Frequency	20dB Bandwidth	2/3 (20dB Bandwidth)
1.	0	2403.328MHz	1.900MHz	1.267MHz
2.	19	2442.240MHz	1.917MHz	1.278MHz
3.	37	2479.104MHz	1.917MHz	1.278MHz

The maximum two-thirds of the 20dB bandwidth shall be at maximum 1.278MHz.

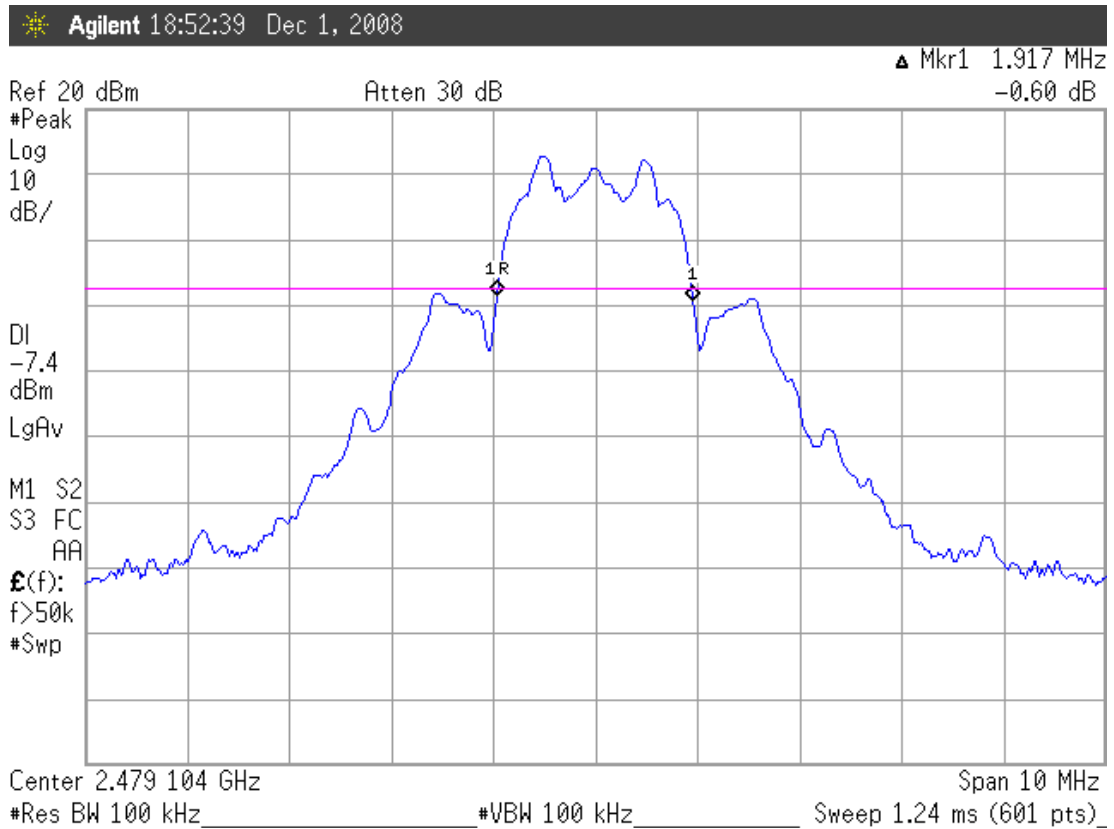
4.6.1. Channel 0, Frequency: 2403.328MHz



4.6.2. Channel 39, Frequency: 2442.240MHz



4.6.3. Channel 78, Frequency: 2479.104MHz



5. CARRIER FREQUENCY SEPARATION MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the carrier frequency separation measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 08'	Aug. 06, 09'

5.2. Block Diagram of Test Setup

The same as section.4.2.

5.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

5.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

5.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The channel separation was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The video bandwidth not to be smaller than resolution bandwidth, the peak was mark on adjacent bandwidth, the between of peak is carrier frequency separation.

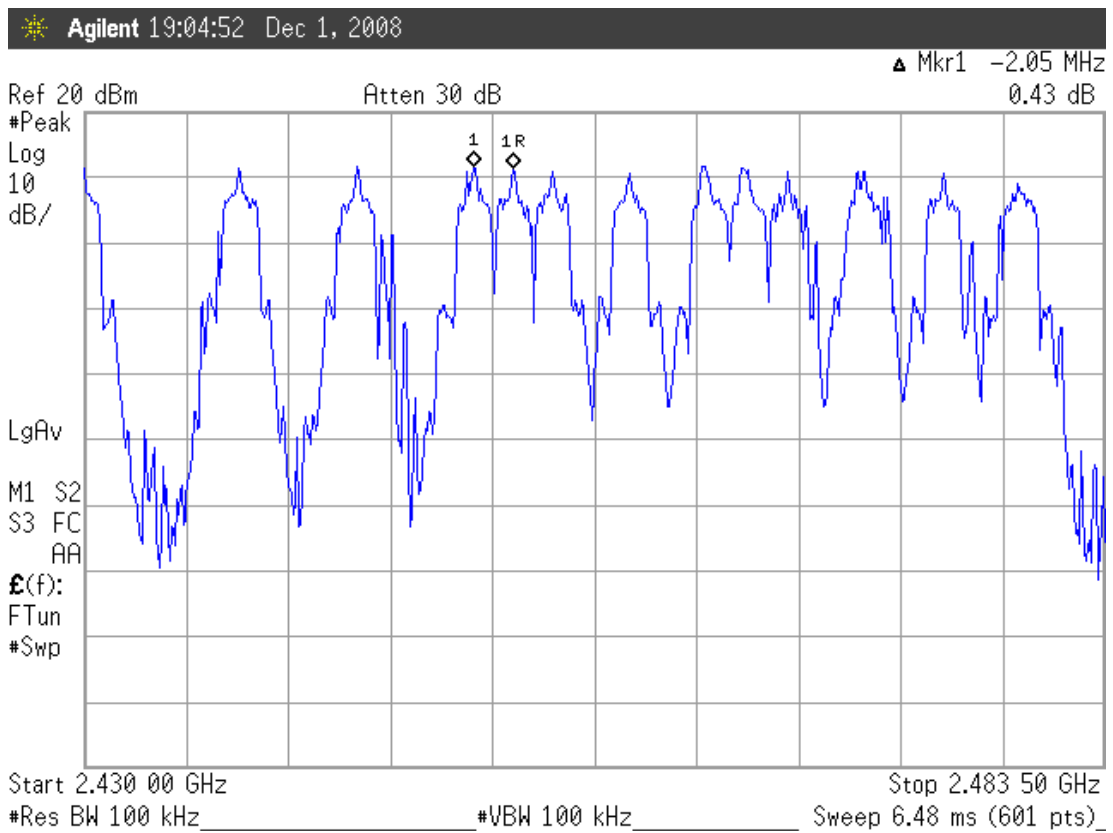
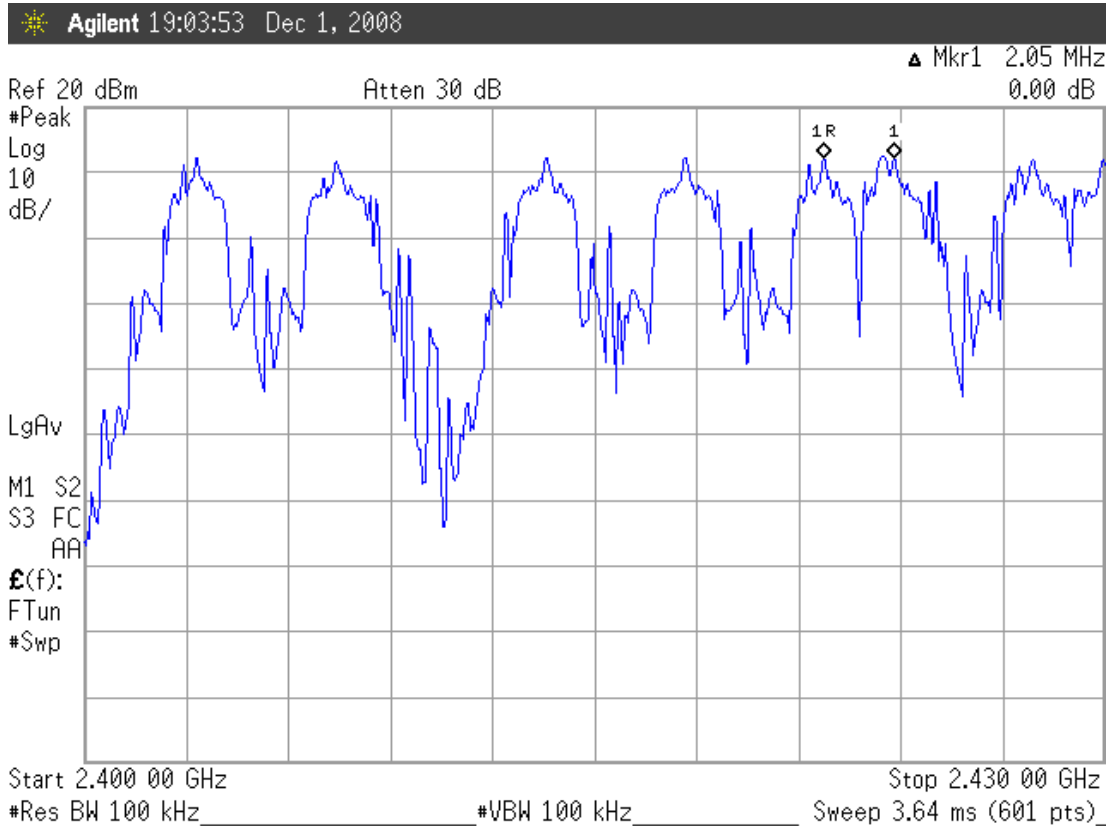
5.6. Test Results

PASSED. All the test results are attached in next pages.

Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

The minimum adjacent channel carrier frequency separation: 2.05MHz °

[Above values have met the requirement as specified in section 4.3: frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.]



6. TIME OF OCCUPANCY MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the time of occupancy measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 08'	Aug. 06, 09'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

6.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

6.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1MHz RBW and 1MHz VBW. $VBW \geq RBW$; Span=zero span.

Centered on a hopping channel sweep=as necessary to capture the entire dwell time per hopping channel ; Detector function=peak ; Trace=Max hold

6.6. Test Results

PASSED. All the test results are attached in next pages.

Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

Duty cycle: 20 channels*0.4 seconds = 8 seconds

Test Frequency: 2403.328MHz

For per second of 10 channels appearance, the longest time of occupancy for each of 8 seconds is:

10 channels*8 seconds* 4.396ms = 351.680ms (<400ms)

Test Frequency: 2442.240MHz

For per second of 10 channels appearance, the longest time of occupancy for each of 8 seconds is:

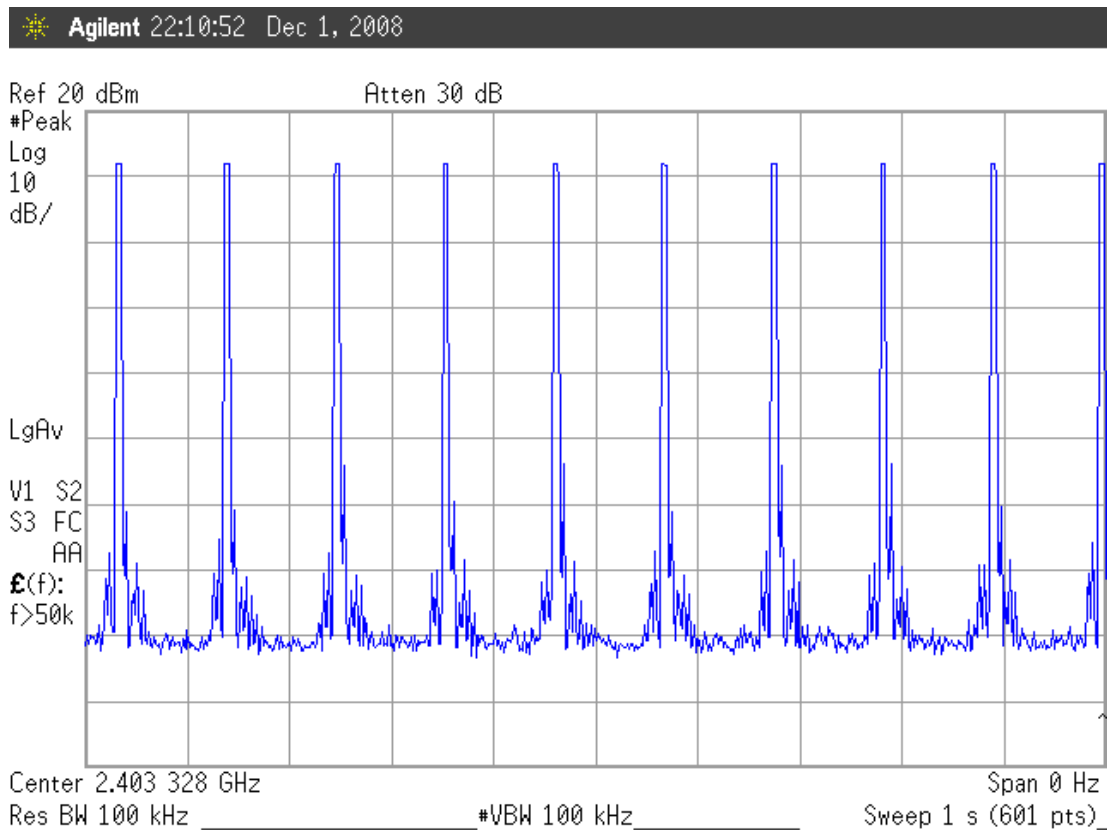
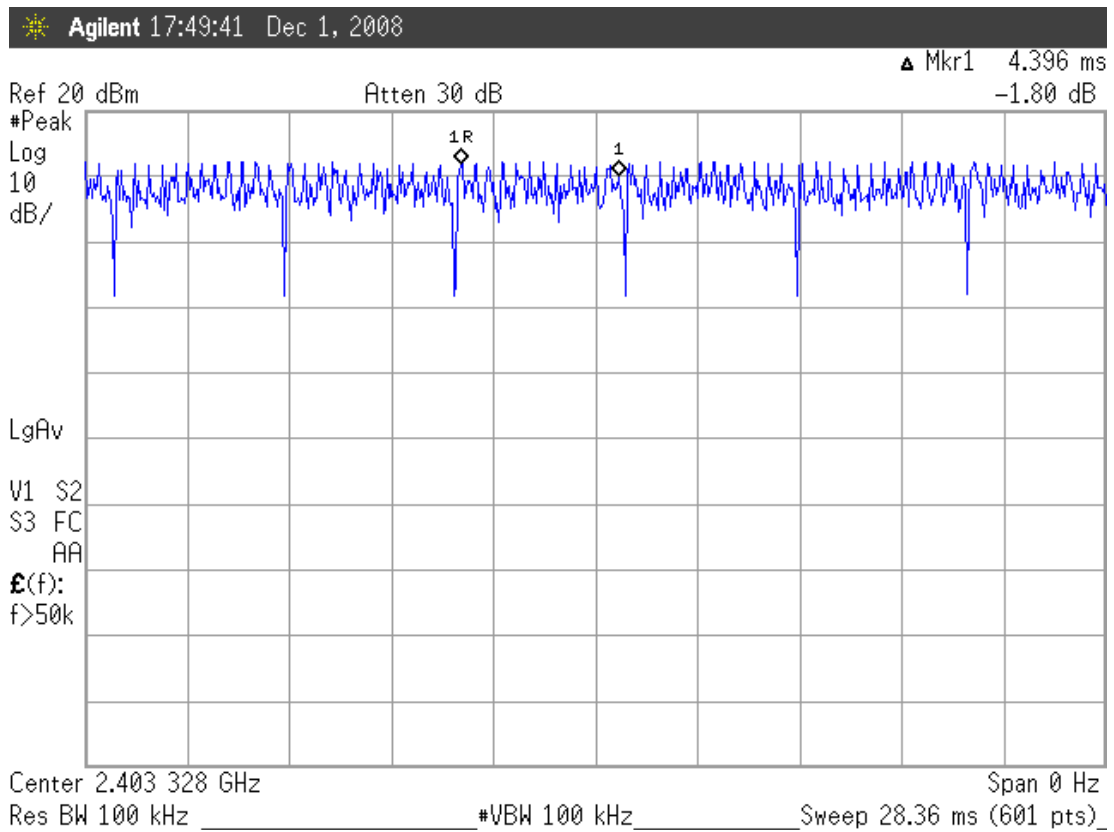
10 channels*8 seconds* 4.550ms = 364.000ms (<400ms)

Test Frequency: 2479.104MHz

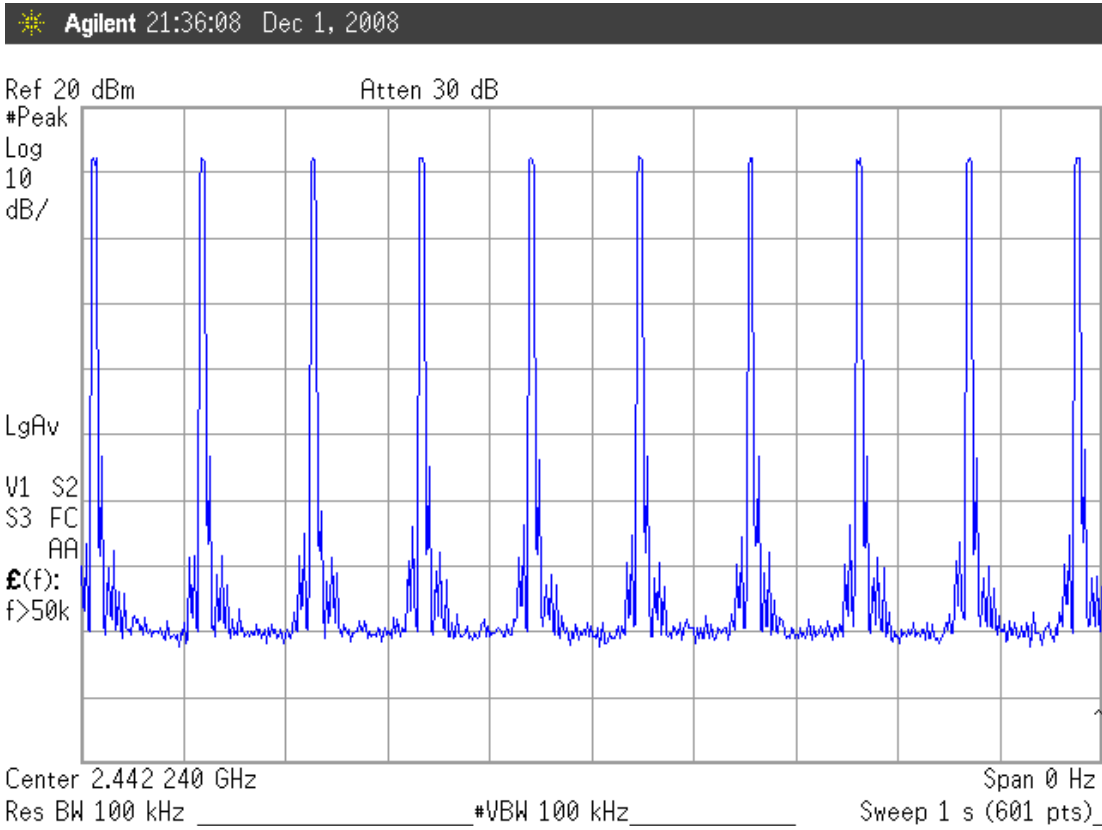
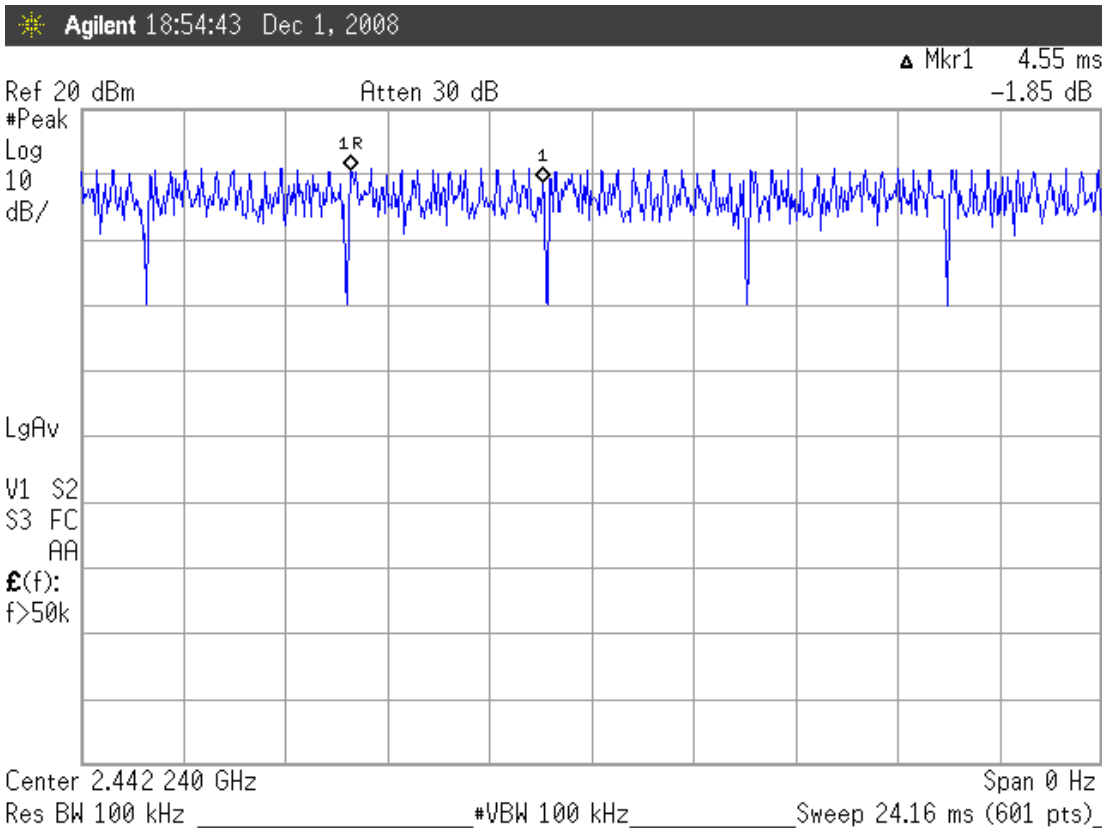
For per second of 10 channels appearance, the longest time of occupancy for each of 8 seconds is:

10 channels*8 seconds* 4.510ms = 360.800ms (<400ms)

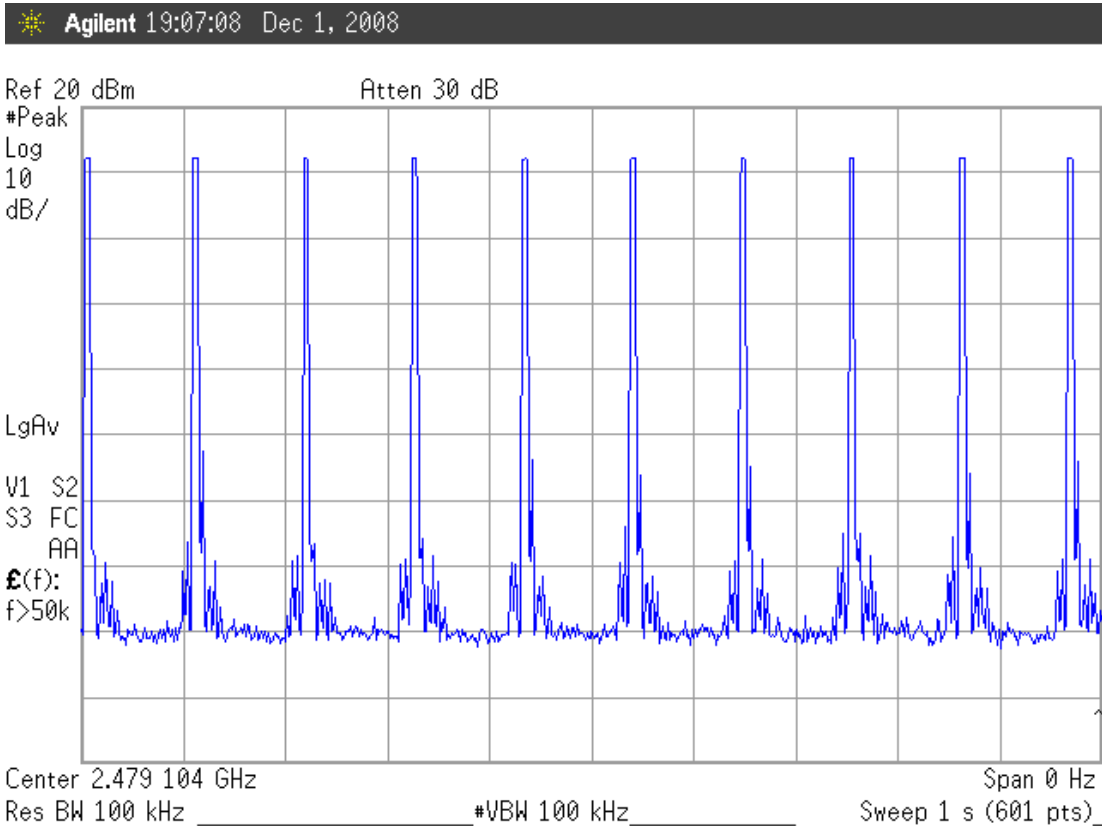
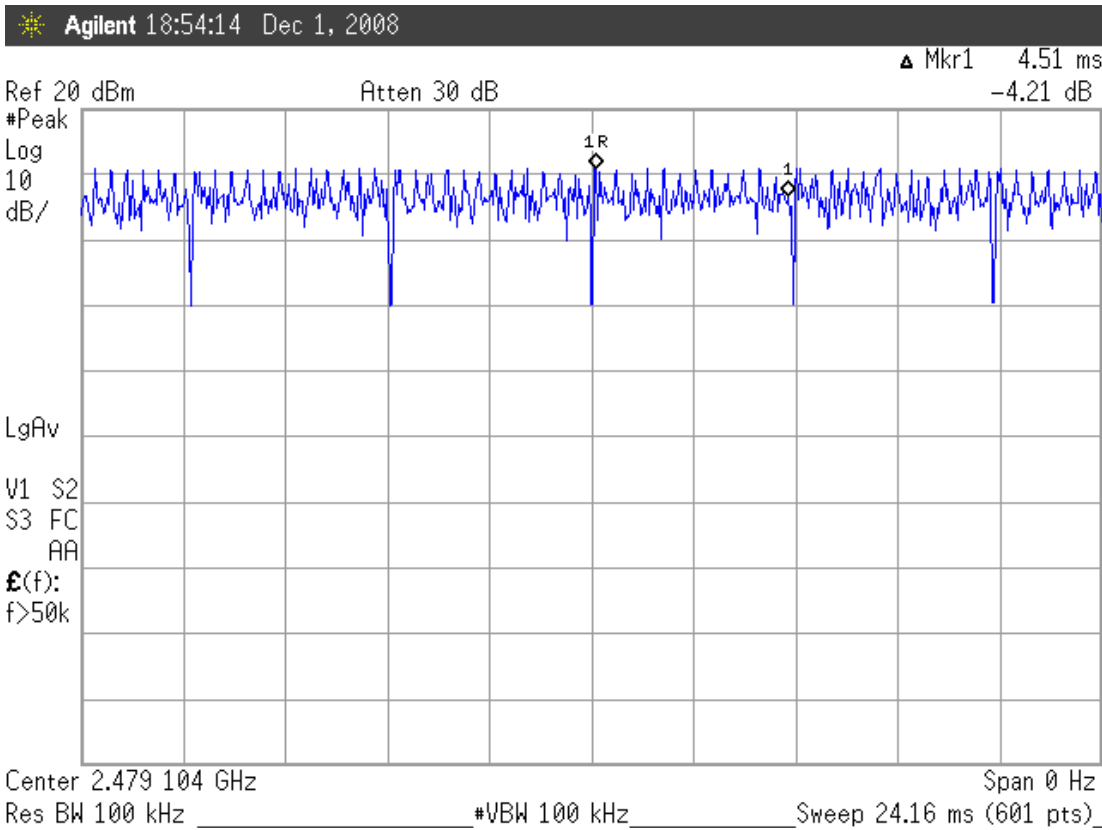
6.6.1. Channel 0, Test Frequency: 2403.328MHz



6.6.2. Channel 19, Test Frequency: 2442.240MHz



6.6.3. Channel 37, Test Frequency: 2479.104MHz



7. NUMBER OF HOPPING CHANNELS MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the number of hopping channels measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 08'	Aug. 06, 09'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems which use fewer than 20 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels.

7.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

7.5. Test Procedure (DA 00-705)

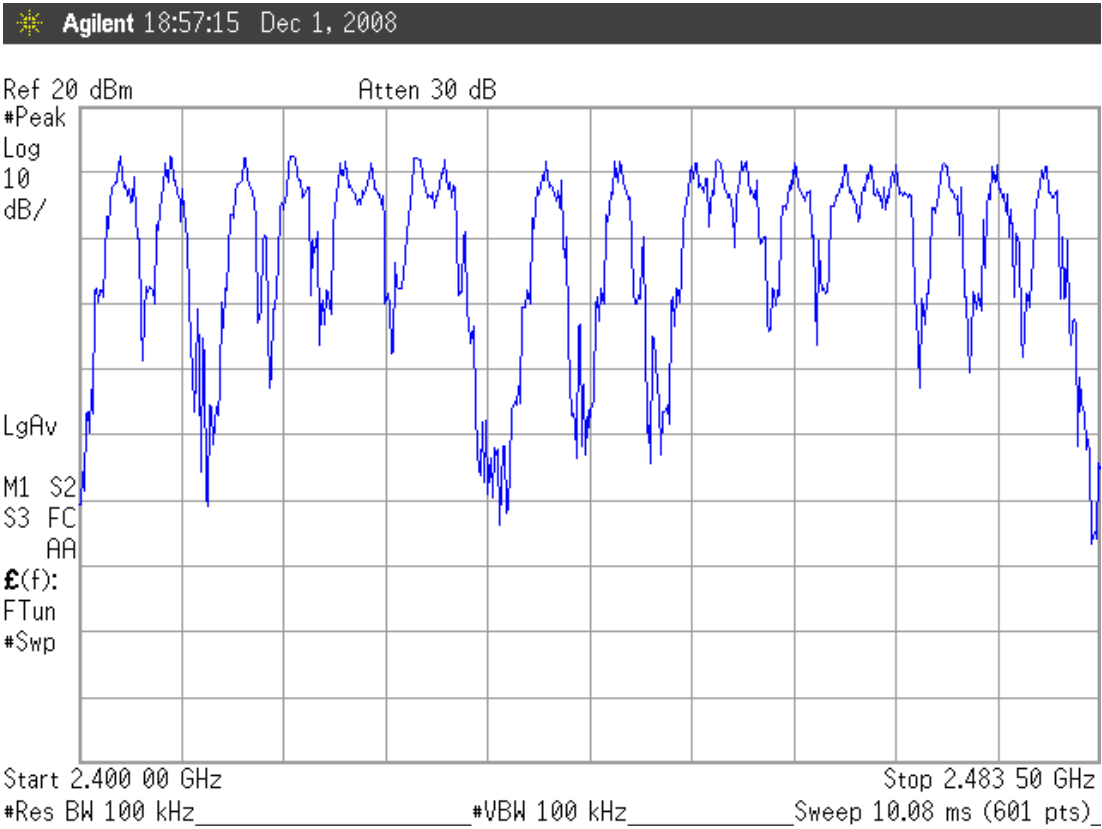
The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. Sweep=Auto ; Detector function=peak ; Trace=Max hold

7.6. Test Results

PASSED. All the test results are attached in next page.

Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

The number hopping channel is 20.



8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Jan. 26, 08'	Jan. 25, 09'
2.	Power Sensor	Anritsu	MA2491A	030873	Jan. 26, 08'	Jan. 25, 09'

8.2. Block Diagram of Test Setup



8.3. Specification Limits (§15.247(b)-(1))

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

8.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in 4.4 except the test set up replaced by section 8.2.

8.5. Test Procedure (DA 00-705)

The transmitter output was connected to the power sensor and record the reading of power meter.

8.6. Test Results

PASSED. All the test results are listed below.

Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	0	2403.328MHz	14.28dBm	21dBm
2.	19	2442.240MHz	13.59dBm	21dBm
3.	37	2479.104MHz	13.85dBm	21dBm

9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

The following test equipment was used during the emission limitations measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 08'	Aug. 06, 09'

9.2. Block Diagram of Test Setup

The same as section.4.2.

9.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※ This test result attaching to §3.6.3)

9.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

9.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with frequency range from 30MHz to 25GHz.

9.6. Test Results

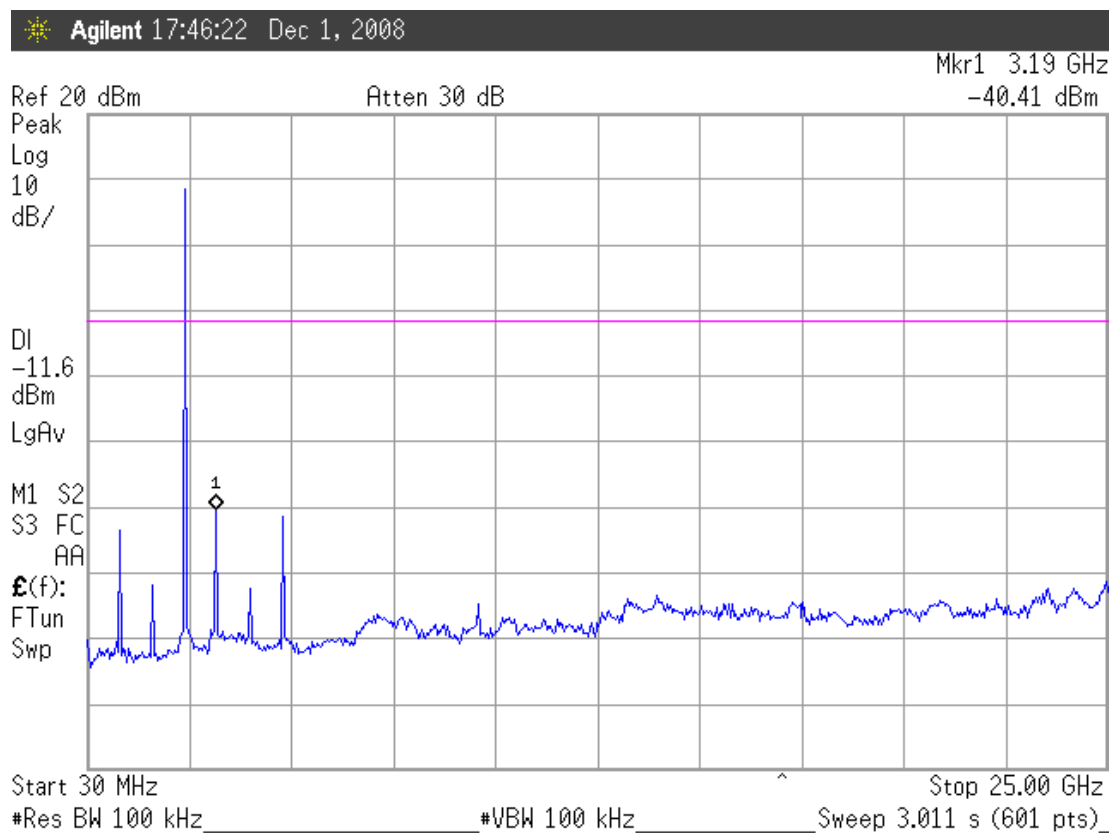
PASSED. All the test results are attached in next pages.

Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

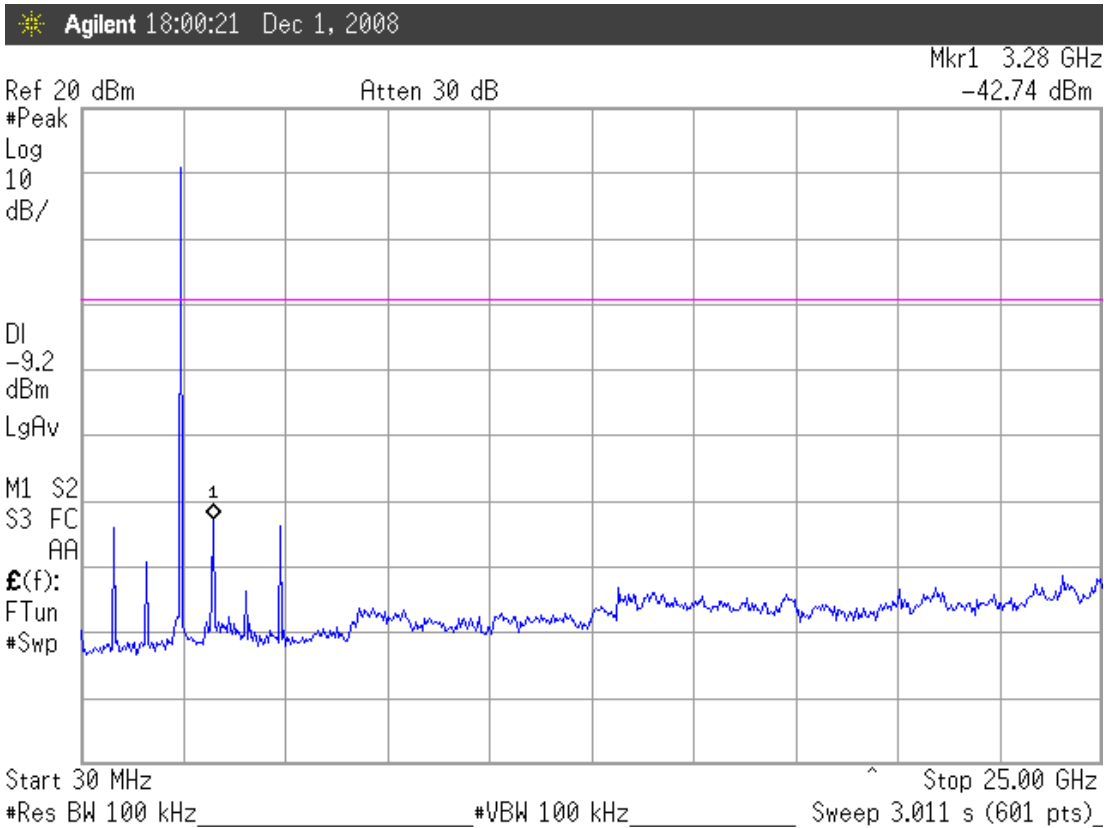
1. 2403.328MHz: During 30MHz~25GHz bandwidth. In the 3.19GHz, the -40.41dBm is max value that is lower than 20dB of primary channel.
2. 2442.240MHz: During 30MHz~25GHz bandwidth. In the 3.28GHz, the -42.74dBm is max value that is lower than 20dB of primary channel.
3. 2479.104MHz: During 30MHz~25GHz bandwidth. In the 3.32GHz, the -41.89dBm is max value that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

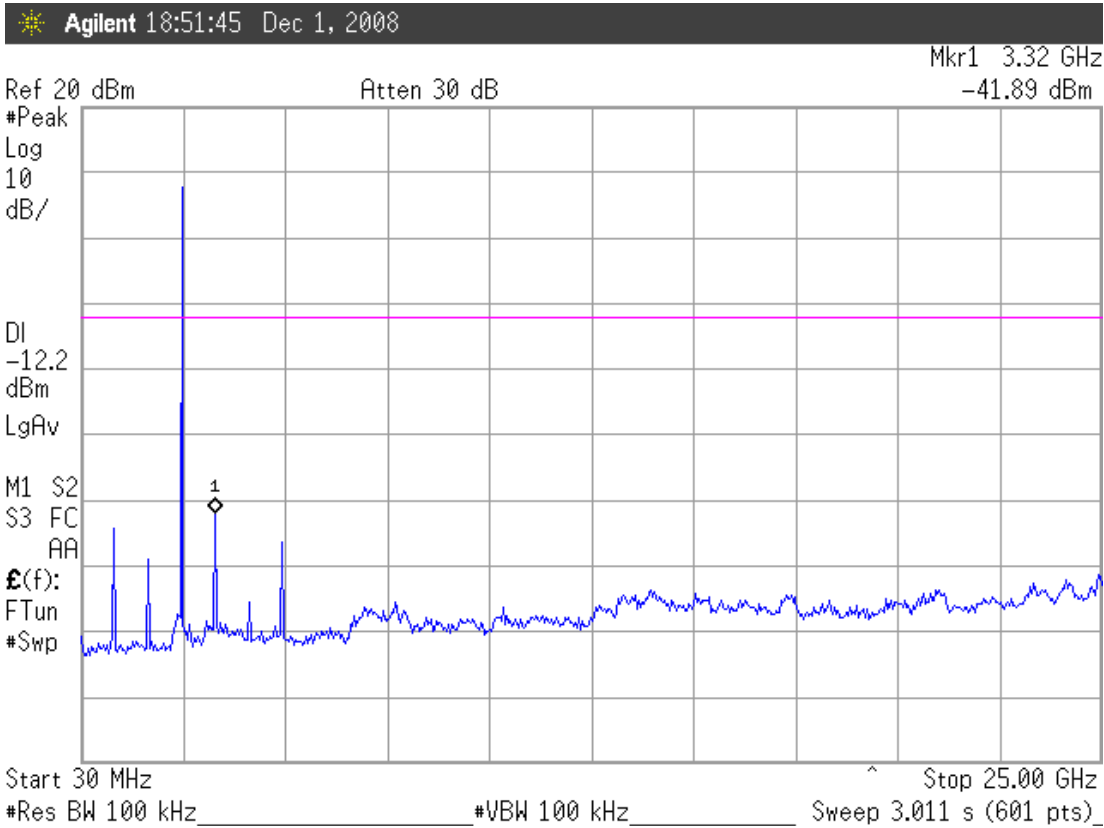
9.6.1. Channel 0, Frequency: 2403.328MHz



9.6.2. Channel 19, Frequency: 2442.240MHz



9.6.3. Channel 37, Frequency: 2479.104MHz



10.BAND EDGES MEASUREMENT

10.1.Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 08'	Aug. 06, 09'

10.2.Block Diagram of Test Setup

The same as section.4.2.

10.3.Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)). (※ This test result attaching to §3.6.3)

10.4.Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

10.5.Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

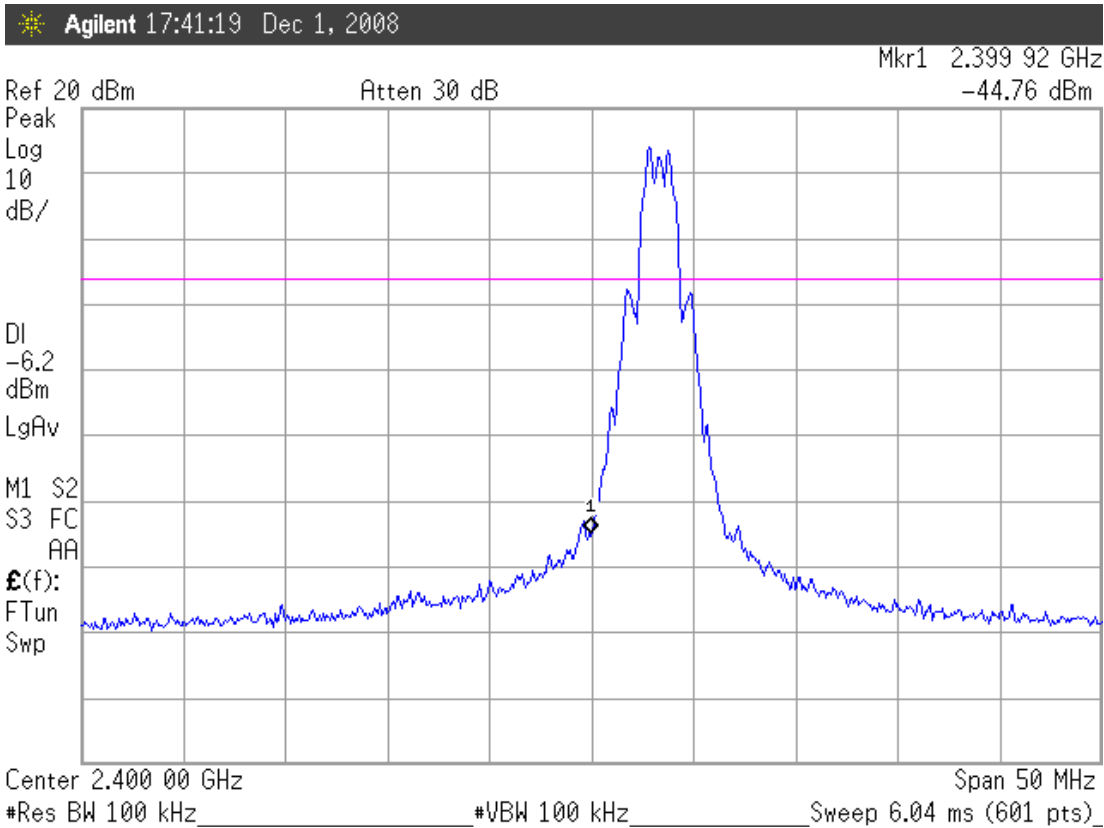
10.6.Test Results

PASSED. The testing data was attached in the next pages.

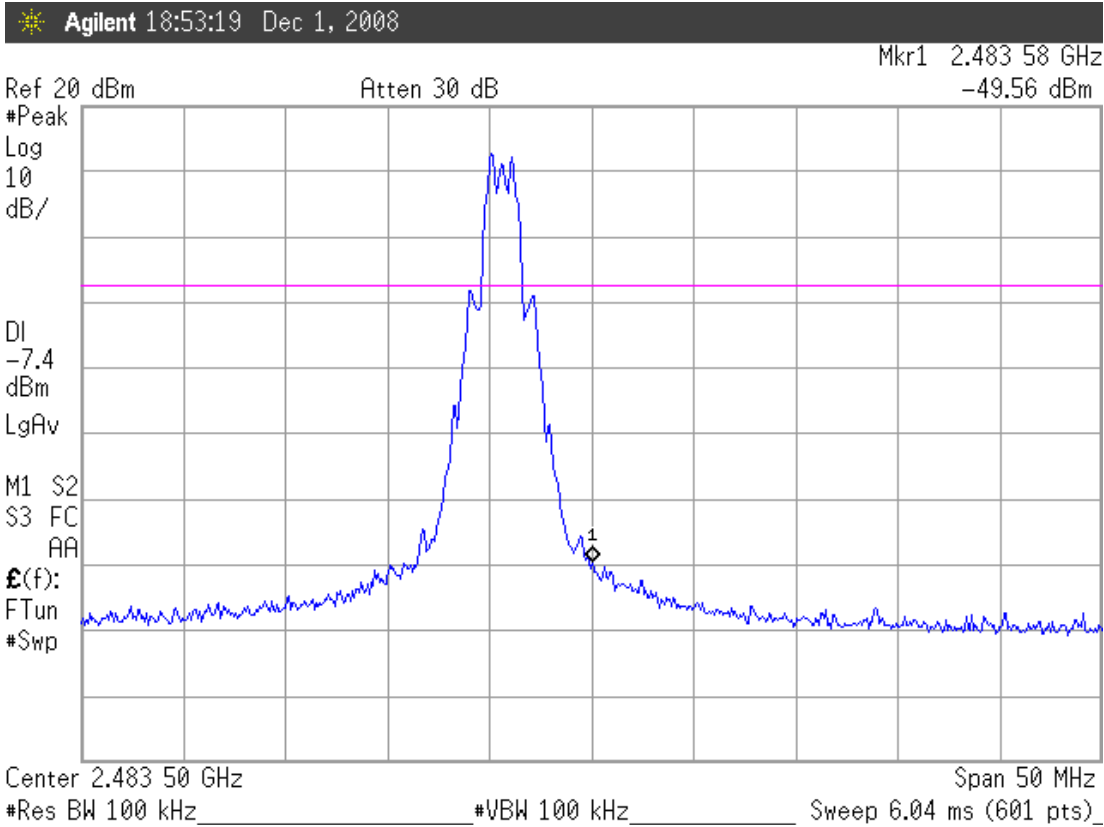
Test Date : Dec. 01, 2008 Temperature : 23 °C Humidity : 49 %

1. Upper Band edge : The highest emission level is – 44.76dBm on 2.39992GHz ◦
2. Below Band edge: The highest emission level is – 49.56dBm on 2.48358GHz ◦

10.6.1. Below Band edge



10.6.2. Upper Band edge



11.DEVIATION TO TEST SPECIFICATIONS

【NONE】