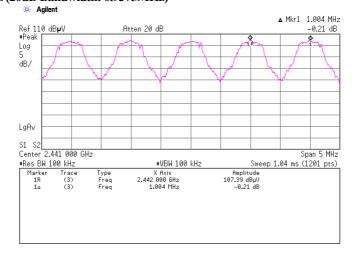
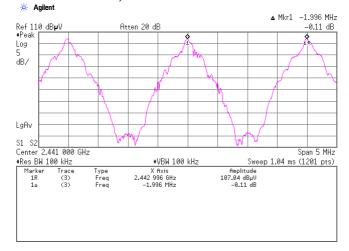
## Channel Separation (Regulation: FCC 15.247(a)(1))

uon	( <b>Iteguiauon</b> , <b>I</b> CC 13.27/(a)(1	,,		
	UL Japan, Inc. Yamakita EMC lab.	No.4	shielded room	
	Date:	2009.12	2.29	
	Temp./Humid.:	20	deg. C. / 33 %	)
	Engineer:	Akira S	lato	
	Test mode:	Transm	itting	
			-	

Limit: ≥ 20dB Bandwidth (Power: No greater than 1W) 1. Hopping, DH5: 1.004MHz (20dB Bandwidth: 0.9375MHz)



#### 2. Inquiry: 1.996MHz (20dB Bandwidth: 0.780MHz)

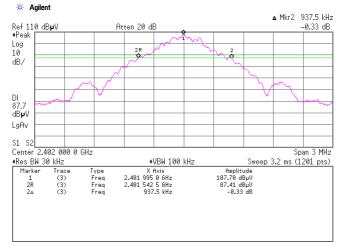


## 20dB Bandwidth (Regulation: FCC 15.247(a)(1))

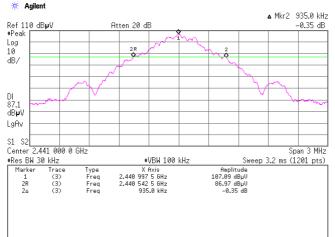
b Duna (1 and (1			
	UL Japan, Inc. Yamakita EMC lab.	No.2	shielded room
	Date:	2009.12.	29
	Temp./Humid.:	20	deg. C. / 33 %
	Engineer:	Akira Sa	ito
	Test mode:	Transmi	tting

[Hopping off, DH5]

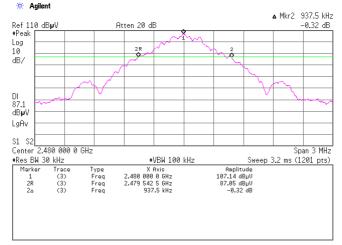
1. ch : 2402MHz/20dB Bandwidth:0.9375MHz



2. ch: 2441MHz/20dB Bandwidth:0.935MHz

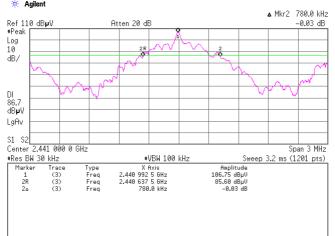


## 3. ch: 2480MHz/20dB Bandwidth:0.9375MHz



## [Inquiry]

4. Inquiry/20dB Bandwidth:0.780MHz \* Agilent

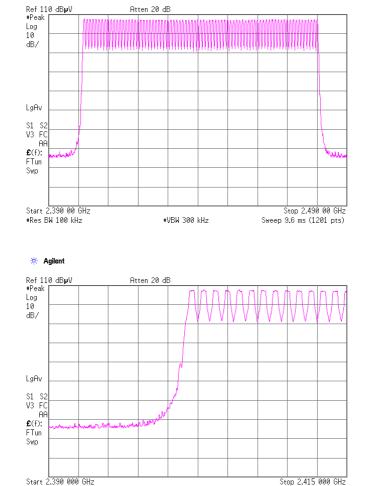


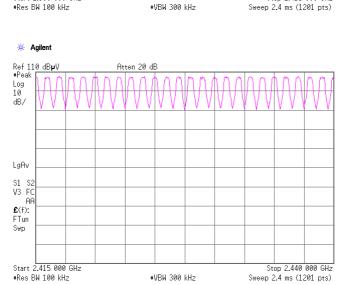
🔆 Agilent

## Channel Utilization (Regulation: FCC 15.247(a)(1)(iii))

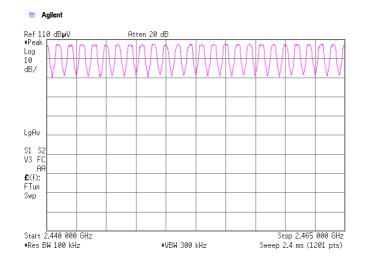
UL Japan	, Inc. Yamakita EMC lab.	No.4	shielded room	
Date:		2009.1	2.29	
Temp./Hu	umid.:	20	deg. C. / 33	%
Engineer		Akira	Sato	
Test mod	e:	Transr	nitting	

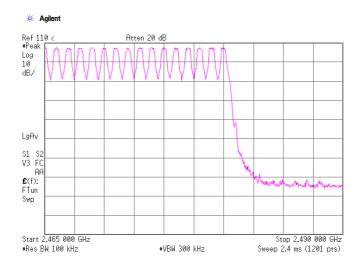
## Hopping, DH5: 79ch 1.





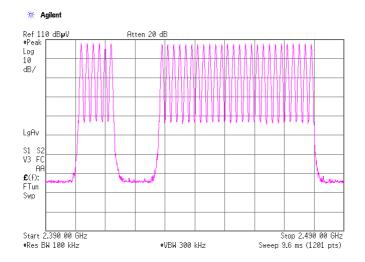


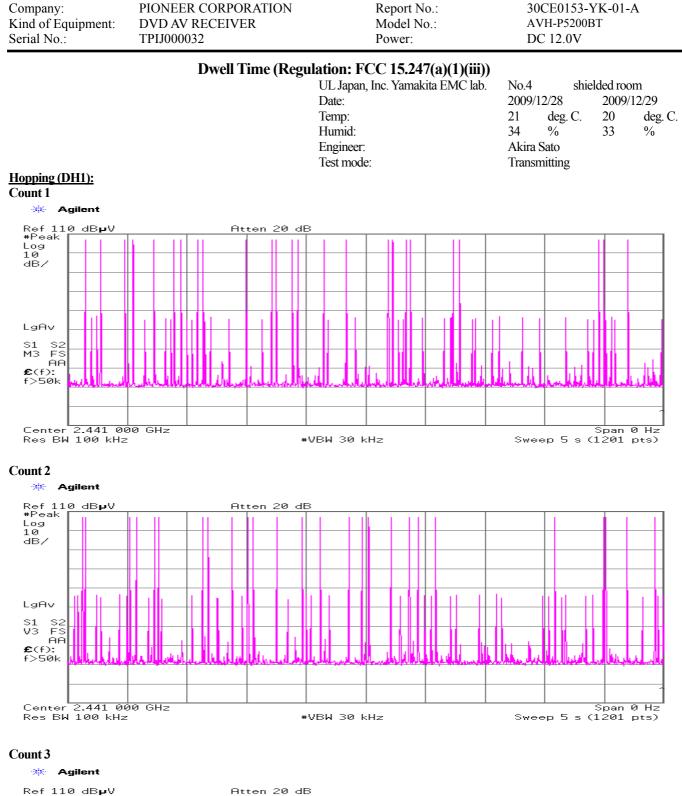


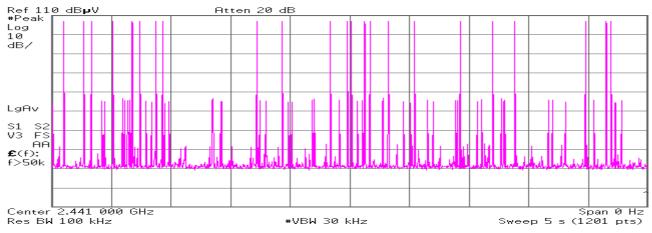


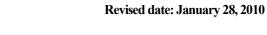
5.

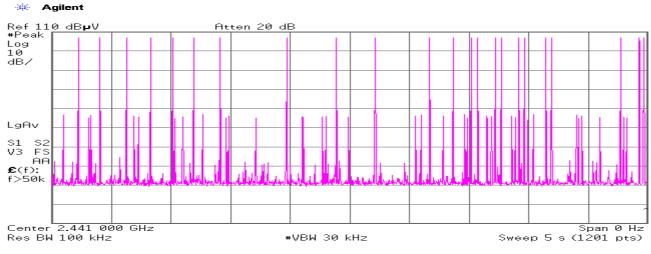
## 1. Inquiry: 32ch



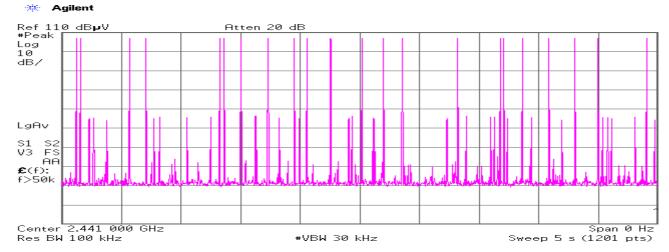








#### Count 5

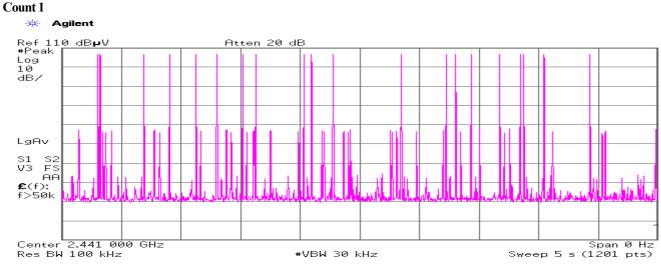


## Duty cycle(Hopping DH1)



Average times of rising in 5 sec. of sweep = (25 + 25 + 23 + 23 + 22) / 5 = 23.6Average times of rising in 1 sec. = 23.8 / 5s = 4.72Average times of rising in  $0.4x = 0.4 \times 79$ ch  $\times 4.72 = 149.15$ Dwell time =  $149.15 \times 0.400 = 59.66$  [ms] Limit : Dwell Time < 0.4[s]

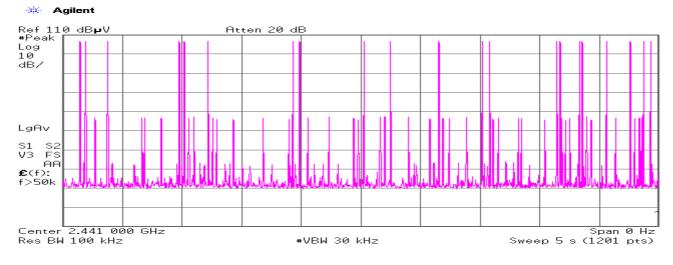
## Hopping (DH3):



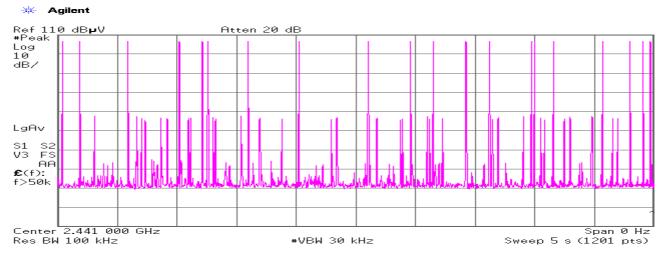
Report No.: Model No.:

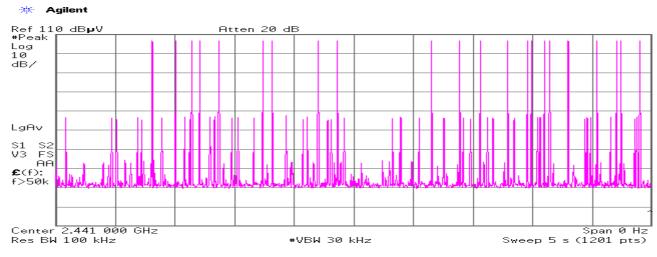
Power:

### Count 2

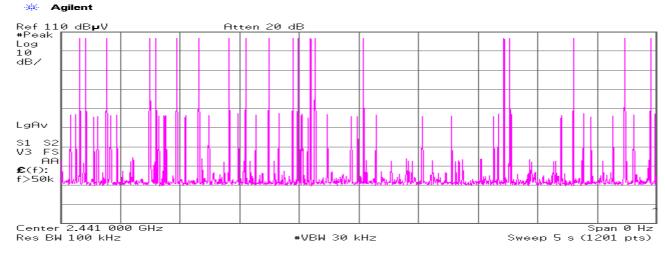


### Count 3

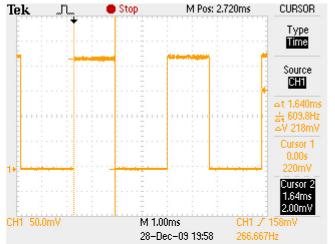




#### Count 5



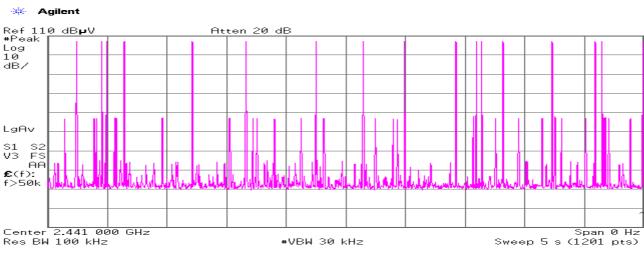
## Duty cycle(Hopping DH3)



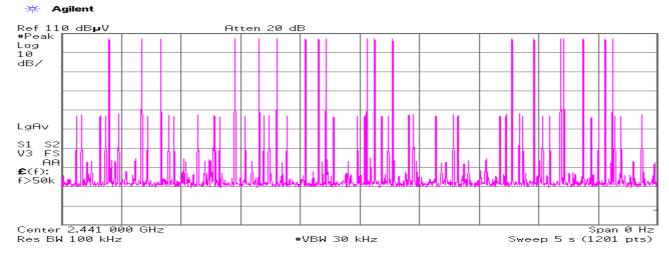
Average times of rising in 5 sec. of sweep = (20 + 21 + 20 + 22 + 20) / 5 = 20.6Average times of rising in 1 sec. = 20.6 / 5s = 4.12Average times of rising in  $0.4x = 0.4 \times 79ch \times 4.12 = 130.19$ Dwell time =  $130.19 \times 1.64 = 213.51$  [ms] Limit : Dwell Time < 0.4[s]

## Hopping (DH5):

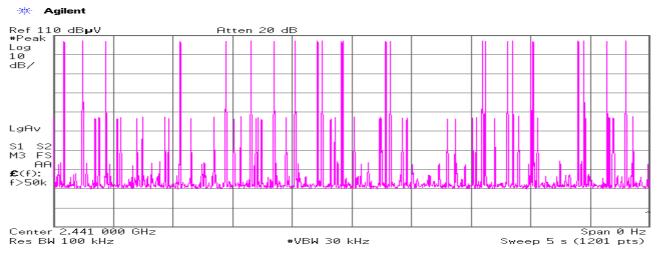




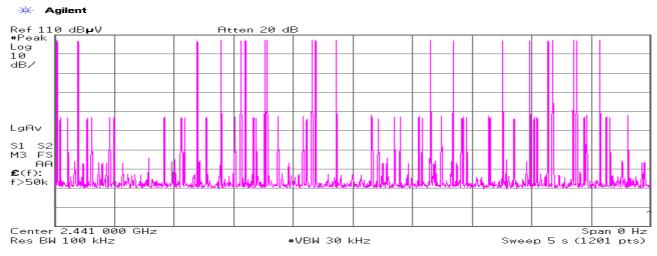
#### Count 2



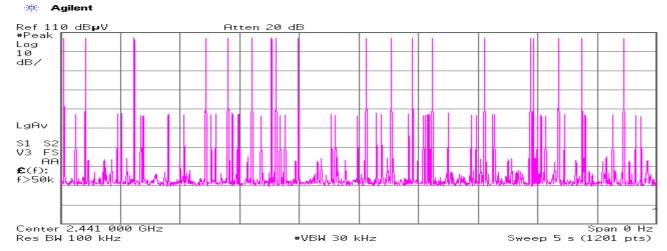
### Count 3



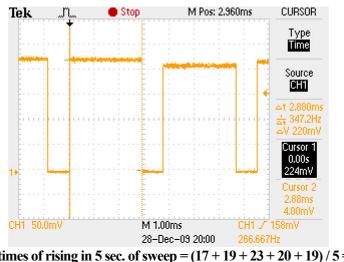
## Revised date: January 28, 2010



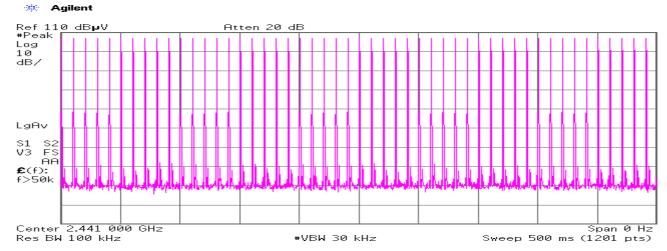
#### Count 5



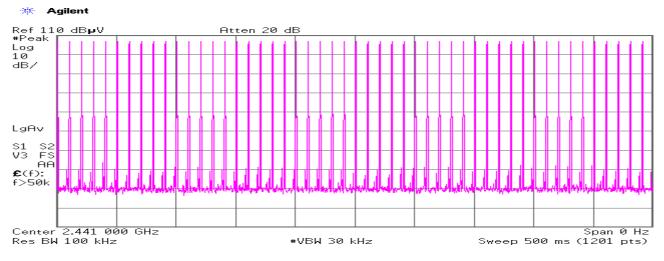
## Duty cycle(Hopping DH5)

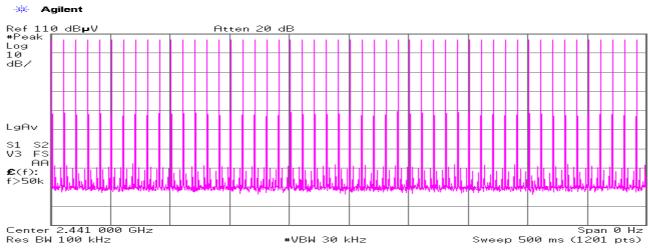


Average times of rising in 5 sec. of sweep = (17 + 19 + 23 + 20 + 19) / 5 = 19.6Average times of rising in 1 sec. = 19.6 / 5s = 3.92Average times of rising in 0.4x = 0.4 \* 79ch \* 3.92 = 123.87Dwell time = 123.87 \* 2.88 = 356.75 [ms] Limit : Dwell Time < 0.4[s]

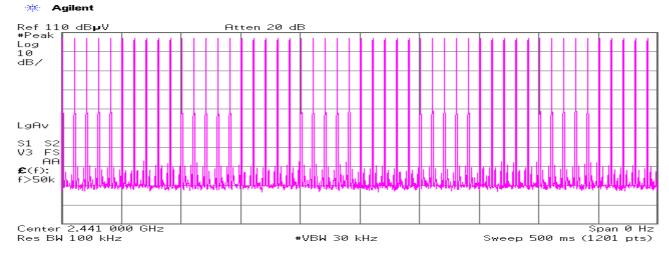


#### Count 3

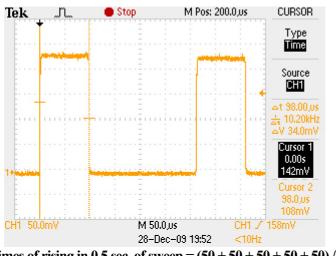




### Count 5



## **Duty cycle(Inquiry)**



Average times of rising in 0.5 sec. of sweep = (50 + 50 + 50 + 50 + 50) / 5 = 50.0Average times of rising in 1 sec. = 50.0 / 0.5s = 100.0Average times of rising in  $0.4x = 0.4 \times 32ch \times 100.0 = 1280.0$ Dwell time =  $1280.0 \times 0.098 = 125.44$  [ms] Limit : Dwell Time < 0.4[s]

Revised date: January 28, 2010

## Maximum Peak Conducted Output Power (Regulation: FCC 15.247(b)(1))

UL Japan, Inc Yamakita EMC lab. No.4 Shielded Room

DATE:	2009.12.29
TEMP./HUMID.:	20deg.C/33%
TEST MODE:	Transmitting

ENGINEER: Akira Sato

DH5

DIIJ						
СН	FREQ	P/M	Cable Loss	Results	Limit	MARGIN
		Reading			(1W)	
	[GHz]	[dBm]	[dB]	[dBm]	[dBm]	[dB]
Low	2402.00	1.30	0.47	1.77	30.00	28.23
Mid	2441.00	0.78	0.42	1.20	30.00	28.80
High	2480.00	0.46	0.58	1.04	30.00	28.96
Inquiry	-	1.14	0.42	1.56	30.00	28.44

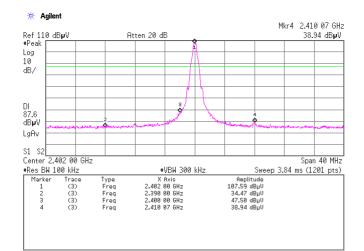
P/M: Power Meter

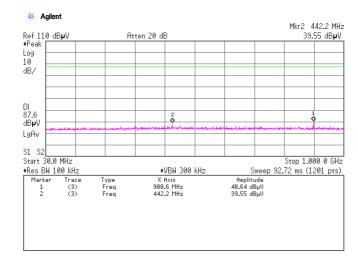
CABLE LOSS:Customer's cable

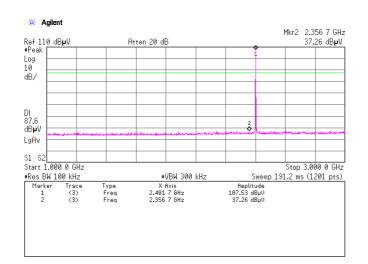
## Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

UL Japan, Inc. Yamakita EMC lab.	No.4 shielded room	
Date:	2009.12.29	
Temp./Humid.:	20 deg. C. / 33 %	6
Engineer:	Akira Sato	
Test mode:	Transmitting	
	-	

## [Transmitting DH5] <u>Ch:2402MHz</u> 1.

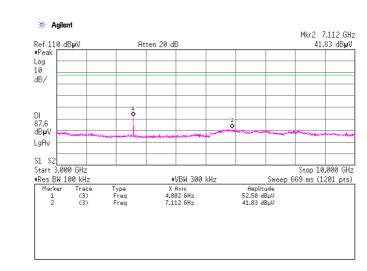






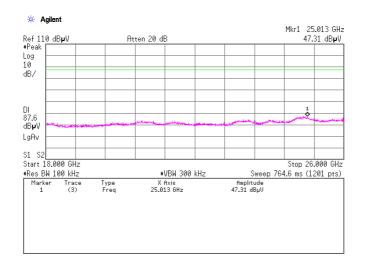
30CE0153-YK-01-A AVH-P5200BT DC 12.0V

### [Transmitting DH5] Ch:2402MHz 4.



 Agient
 Mkr1
 13.907
 GHz

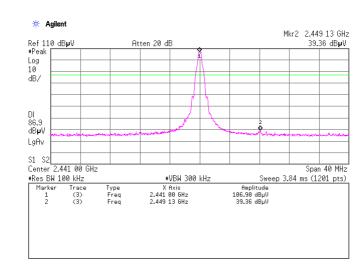
 #Peak
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.40
 44.4

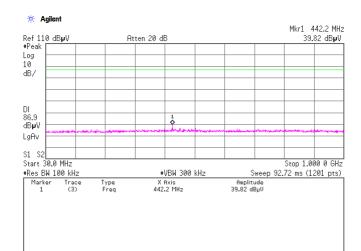


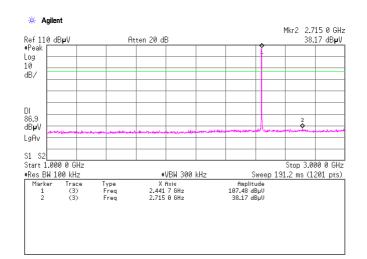
5.

Report No.: Model No.: Power: 30CE0153-YK-01-A AVH-P5200BT DC 12.0V

### [Transmitting DH5] <u>Ch:2441MHz</u> 1.





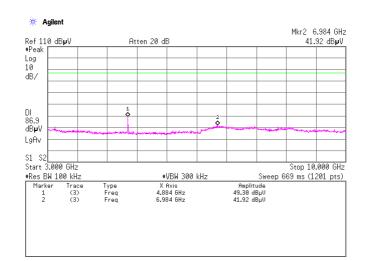


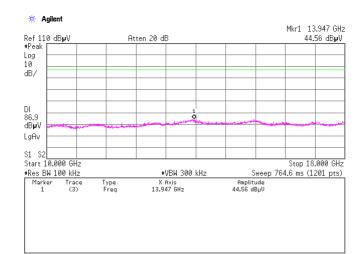
2.

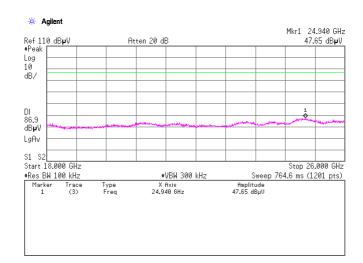
30CE0153-YK-01-A AVH-P5200BT DC 12.0V

## [Transmitting DH5] Ch:2441MHz

4.





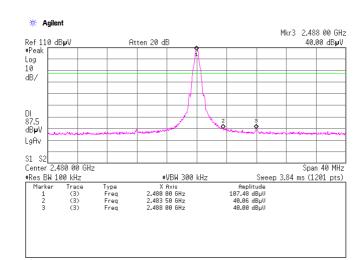


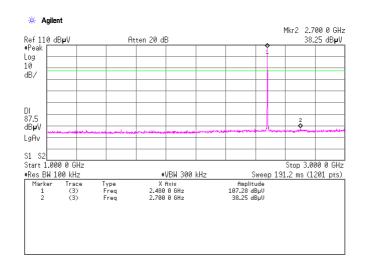
5.

Report No.: Model No.: Power: 30CE0153-YK-01-A AVH-P5200BT DC 12.0V

## [Transmitting DH5] Ch:2480MHz

1.



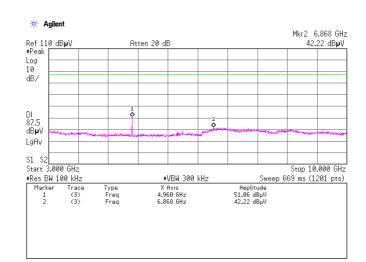


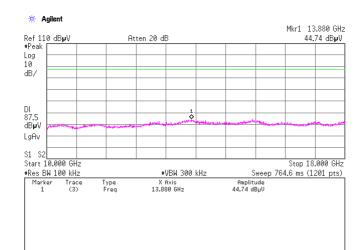
2.

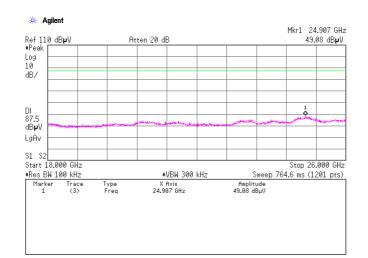
30CE0153-YK-01-A AVH-P5200BT DC 12.0V

## [Transmitting DH5] Ch:2480MHz







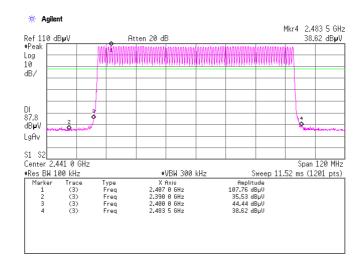


5.

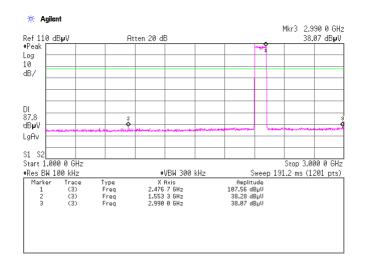
30CE0153-YK-01-A AVH-P5200BT DC 12.0V

## [Transmitting DH5] <u>Hopping</u>

1.



🔆 Agilent Mkr2 468.1 MHz Ref 110 dBµV #Peak Atten 20 dB 38.05 dBµV Log 10 dB/ DI 87.8 dB**µ**V LgAv S1 S2 Start 30.0 MHz #Res BW 100 kHz Marker Trace 1 (3) 2 (3) Stop 1.000 0 GHz ₩VBW 300 kHz Sweep 92.72 ms (1201 pts) Type Freq Freq X Axis 442.2 MHz 468.1 MHz Amplitude 39.59 dBµV 38.05 dBµV

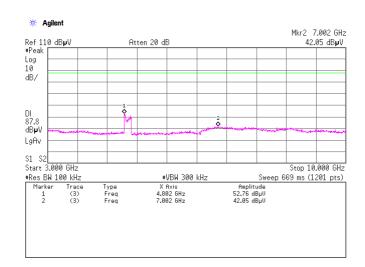


2.

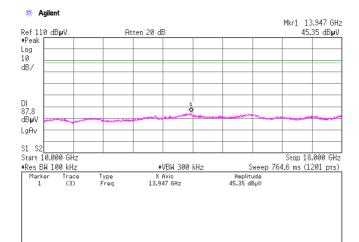
30CE0153-YK-01-A AVH-P5200BT DC 12.0V

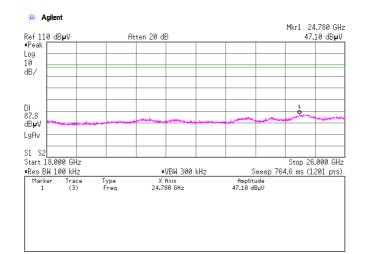
## [Transmitting DH5] <u>Hopping</u>

4.



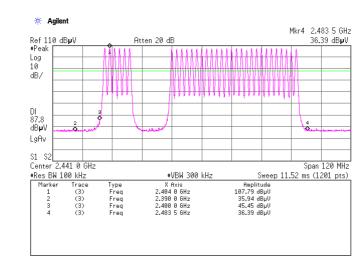
5.



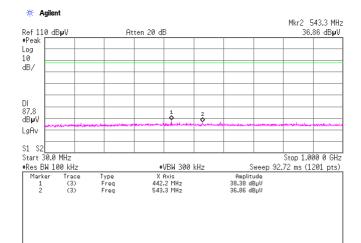


30CE0153-YK-01-A AVH-P5200BT DC 12.0V

## [Transmitting] <u>Inquiry</u> 1.



2.

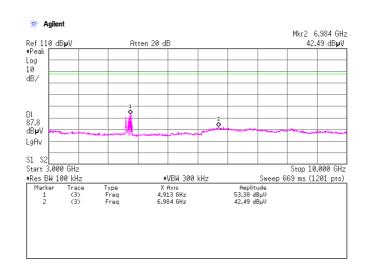


🔆 Agilent Mkr2 2.738 3 GHz Ref 110 dB**µ**V #Peak Atten 20 dB 38.27 dBµV Log 10 dB/ DI 87.8 dB**µ**V ¢ LgAv 51 S2 Start 1.000 0 GHz #Res BW 100 kHz Marker Trace 1 (3) 2 (3) S1 S2 Stop 3.000 0 GHz Sweep 191.2 ms (1201 pts) #VBW 300 kHz Type Freq Freq X Axis 2.401 7 GHz 2.738 3 GHz Amplitude 107.70 dBµV 38.27 dBµV

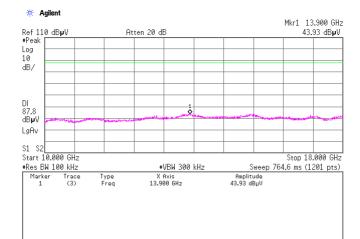
30CE0153-YK-01-A AVH-P5200BT DC 12.0V

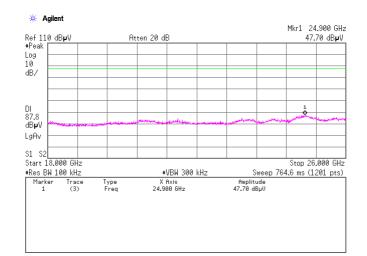
### [Transmitting] <u>Inquiry</u> 4.





5.





UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Seria Power Mode Reman Date Test	al No. r rks Distance erature dity	t : DVD : AVH : TPI : DC1 : Tra : : 12/ : 3 m : 18 : 44	nsmitting(24 28/2009 °C	102MHz)	En	gineer : N	linoru N	akatake	
No.	FREQ. ANT TYPE [MHz]	READING HOR VEI [dB µ V]	ANT AM R FACTOR GAI [dB/m] [dB	N LOSS	ATTEN. [dB]	RESULT HOR VER [dBµV/m] [d	LIMITS ΒμV/m]	MARGIN HOR VEF [dB]	2
1. 2.	171.82 BB 202.50 BB	36.6 34.1 35.4 31.0				33.3       30.8         33.4       29.0	43. 5 43. 5	10.2 12.7 10.1 14.5	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KBA-05 (<300MHz) / KLA-06 ■ AMP : KAF-05 ■ RECE I VER : KTR-04

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Seria Powe Mode Rema Date Test	al No. r rks Distance erature dity	: PIONEER CC DVD AV Rec AVH-P5200E DC12.OV Transmitti : 12/28/2009 3 m 18 °C 44 % FCC Part15	eiver ST ng(2441MHz)	Engi	neer ː Minoru N	lakatake
No.	FREQ. ANT TYPE [MHz]	$\begin{array}{llllllllllllllllllllllllllllllllllll$	AMP CABLE GAIN LOSS [dB] [dB]		RESULT LIMITS HOR VER [dB $\mu$ V/m] [dB $\mu$ V/m]	MARGIN HOR VER [dB]
1. 2.	171.82 BB 202.50 BB	36. 1       34. 3       16. 0         35. 7       30. 9       16. 8			32.8       31.0       43.5         33.7       28.9       43.5	10.7 12.5 9.8 14.6

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KBA-05 (<300MHz) / KLA-06 ■ AMP : KAF-05 ■ RECE I VER : KTR-04

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Seria Power Mode Reman Date Test	al No. r rks Distance erature dity	: PIONEER CO : DVD AV Rec : AVH-P5200B : TPIJ000035 : DC12.OV : Transmitti : : : 12/28/2009 : 3 m : 18 °C : 44 % : FCC Part15	eiver T ng(2480MHz)	Engi	neer : Minoru N	akatake
No.	FREQ. ANT TYPE [MHz]	$\begin{array}{llllllllllllllllllllllllllllllllllll$	AMP CABLE GAIN LOSS [dB] [dB]		RESULT LIMITS HOR VER [dBµV/m] [dBµV/m]	MARGIN HOR VER [dB]
1. 2.	171.84 BB 202.50 BB	36.3       34.4       16.0         35.8       31.0       16.8			33. 031. 143. 533. 829. 043. 5	10.5 12.4 9.7 14.5

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KBA-05 (<300MHz) / KLA-06 ■ AMP : KAF-05 ■ RECE I VER : KTR-04

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Ser Powe Mode Rema Date Tes Tem	e arks e t Distance perature idity		<ul> <li>PIONEER CORPORATION</li> <li>DVD AV Receiver</li> <li>AVH-P5200BT</li> <li>TPIJ000035</li> <li>DC12. 0V</li> <li>Transmitting (2402MHz)</li> <li>PK (RBW:1MHz, VBW:1MHz)</li> <li>12/28/2009</li> <li>3 m</li> <li>18 °C</li> <li>44 %</li> <li>FCC Part15C § 15. 209 (PK</li> </ul>					Engineer : Minoru Nakatake ( Detection)					
No.	•	NT YPE	READ HOR [dB /		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RES HOR [dB µ ]	ULT I VER V/m] [d]	LIMITS BµV/m]	HOR	RGIN VER HB]
$ \begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ \end{array} $	2390.00 4804.00 7206.00 9608.00	BB BB BB BB BB BB	$\begin{array}{c} 44. \ 9\\ 42. \ 8\\ 45. \ 0\\ 44. \ 2\\ 43. \ 1\\ 43. \ 7\end{array}$	44. 8 44. 4 44. 1 43. 8 44. 4 44. 5	$27.5 \\ 28.0 \\ 32.2 \\ 36.6 \\ 38.8 \\ 38.7 \\$	$\begin{array}{c} 36.\ 6\\ 36.\ 5\\ 36.\ 2\\ 36.\ 2\\ 36.\ 3\\ 35.\ 6\end{array}$	7.2 8.4 9.0 10.0	$\begin{array}{c} 0. \ 0 \\ 0. \ 0 \\ 0. \ 0 \\ 0. \ 0 \\ 0. \ 0 \\ 0. \ 0 \\ 0. \ 0 \end{array}$	$\begin{array}{r} 42.\ 4\\ 41.\ 5\\ 49.\ 4\\ 53.\ 6\\ 55.\ 6\\ 57.\ 5\end{array}$	$\begin{array}{r} 42.\ 3\\ 43.\ 1\\ 48.\ 5\\ 53.\ 2\\ 56.\ 9\\ 58.\ 3\end{array}$	74. 074. 074. 074. 074. 074. 074. 0	$\begin{array}{c} 31.\ 6\\ 32.\ 5\\ 24.\ 6\\ 20.\ 4\\ 18.\ 4\\ 16.\ 5\end{array}$	31.730.925.520.817.115.7

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D13/D16 ■ AMP : KAF-02 ■ SPECTRUMANALYZER : KSA-R11

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Ser Powe Mode Rema Date Tes Tem	e arks e t Distan perature idity		t	<ul> <li>PIONEER CORPORATION</li> <li>DVD AV Receiver</li> <li>AVH-P5200BT</li> <li>TPIJ000035</li> <li>DC12. 0V</li> <li>Transmitting(2402MHz)</li> <li>AV (RBW:1MHz, VBW:1, 2;10Hz, 3, 4, 5, 6;300Hz) *1)</li> <li>12/28/2009</li> <li>3 m</li> <li>18 °C Engineer : Minoru Nakatake</li> <li>44 %</li> </ul>									
No.	FREQ.	ANT TYPE	REAI HOR	DING	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Detect ATTEN. [dB]	RES HOR	ULT I VER V/m][dH	LIMITS BµV/m]	HOR	RGIN VER 1B]
$ \begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ \end{array} $	1920.062390.004804.007206.009608.0012010.00	BB BB BB BB BB BB	33. 4 32. 2 36. 5 32. 8 32. 0 32. 0	32. 6 34. 4 38. 8 32. 9 32. 1 32. 1	$\begin{array}{c} 27.5\\ 28.0\\ 32.2\\ 36.6\\ 38.8\\ 38.7 \end{array}$	$\begin{array}{c} 36.\ 6\\ 36.\ 5\\ 36.\ 2\\ 36.\ 2\\ 36.\ 3\\ 35.\ 6\end{array}$	7.2 8.4 9.0 10.0	$\begin{array}{c} 0.\ 0\\ 0.\ 0\\ 0.\ 0\end{array}$	$\begin{array}{c} 30. \ 9 \\ 30. \ 9 \\ 40. \ 9 \\ 42. \ 2 \\ 44. \ 5 \\ 45. \ 8 \end{array}$	$\begin{array}{c} 30.\ 1\\ 33.\ 1\\ 43.\ 2\\ 42.\ 3\\ 44.\ 6\\ 45.\ 9\end{array}$	54. 054. 054. 054. 054. 054. 054. 0	23. 1 23. 1 13. 1 11. 8 9. 5 8. 2	23. 9 20. 9 10. 8 11. 7 9. 4 8. 1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D13/D16 ■ AMP : KAF-02 ■ SPECTRUMANALYZER : KSA-R11

\*1) The noise is not pulse emission, therefore measurement was performed with 10Hz VBW according to DA00-705.

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Ser Powe Mode Rema Date Test	e arks e t Distanc perature idity			<ul> <li>PIONEER CORPORATION</li> <li>DVD AV Receiver</li> <li>AVH-P5200BT</li> <li>TPIJ000035</li> <li>DC12. 0V</li> <li>Transmitting(2441MHz)</li> <li>PK (RBW:1MHz, VBW:1MHz)</li> <li>12/28/2009</li> <li>3 m</li> <li>18 °C</li> <li>44 %</li> <li>FCC Part15C § 15. 209(PK</li> </ul>					Engineer : Minoru Nakatake { Detection)					
No.	•	ANT TYPE	REAI HOR [dB]	VER	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESU HOR [dB µ V	JLT ] VER //m] [d]	LIMITS ΒμV/m]	HOR	GIN VER  B]	
1. 2. 3. 4. 5.	1920.064882.007323.009764.0012205.00	BB BB BB BB BB	46. 4 43. 0 44. 2 44. 6 43. 8	46. 1 43. 4 43. 4 44. 4 43. 7	27.5 32.2 36.9 38.9 39.0	36. 6 36. 1 36. 3 36. 2 35. 2	6.6 8.4 9.0 10.1 10.7	0.0	$\begin{array}{r} 43.9\\ 47.5\\ 53.8\\ 57.4\\ 58.3 \end{array}$	43. 6 47. 9 53. 0 57. 2 58. 2	74. 074. 074. 074. 074. 074. 0	30. 1 26. 5 20. 2 16. 6 15. 7	30. 4 26. 1 21. 0 16. 8 15. 8	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D13/D16 ■ AMP : KAF-02 ■ SPECTRUMANALYZER : KSA-R11

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Ser Powe Mode Rema Date Tes Tem	e arks e t Distanc perature idity		L	: DVD : AVH- : TPIJ : DC12 : Tran : AV ( : 12/2 : 3 m : 18 °( : 44 9	smittin RBW:1MH 8/2009 C 6	iver g(2441 z,VBW	IMHz) :1;10Hz	, 2, 3, 4, En Detect	gineer		inoru N	akatak	е
No.	FREQ. [MHz]	ANT TYPE	HOR	DING VER µV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RES HOR [dB µ ]	ULT I VER V/m][dE	LIMITS βμV/m]	HOR	RGIN VER HB]
1. 2. 3. 4. 5.	$1920.\ 06\\4882.\ 00\\7323.\ 00\\9764.\ 00\\12205.\ 00$	BB BB BB BB BB	34. 7 33. 0 32. 6 32. 6 32. 1	34. 1 32. 8 32. 6 32. 6 32. 6 32. 6	27.532.236.938.939.0	36. 6 36. 1 36. 3 36. 2 35. 2	8.4 9.0 10.1		$\begin{array}{c} 32.\ 2\\ 37.\ 5\\ 42.\ 2\\ 45.\ 4\\ 46.\ 6\end{array}$	31. 637. 342. 245. 447. 1	54. 054. 054. 054. 054. 054. 0	$21.8 \\ 16.5 \\ 11.8 \\ 8.6 \\ 7.4$	22. 416. 711. 88. 66. 9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D13/D16 ■ AMP : KAF-02 ■ SPECTRUMANALYZER : KSA-R11

\*1) The noise is not pulse emission, therefore measurement was performed with 10Hz VBW according to DA00-705.

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Typ Mod Ser Pow Mod Rem Dat Tes Tem	e arks e t Distance perature idity	t : DVD : AVH : TPI : DC1 : Tra : PK : 12/ : 3 m : 18 : 44	nsmitting( (RBW:1MHz, 28/2009 °C %	/er (2480MHz)	-	ineer on)	: Minoru N	lakatake
No.	FREQ. ANT TYPE [MHz]	READING HOR VEI [dBμV]	R FACTOR G	AMP CABLE AIN LOSS dB] [dB]	ATTEN. [dB]		LIMITS ER ] [dBµV/m]	MARGIN HOR VER [dB]
$ \begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ \end{array} $	1920.06         BB           2483.50         BB           4960.00         BB           7440.00         BB           9920.00         BB           12400.00         BB	45. 2       45.         47. 1       47.         42. 6       43.         43. 4       44.         44. 8       45.         44. 1       44.	0       28.0         8       32.3         2       37.2         3       39.1	36. 6         6. 6           36. 5         7. 3           36. 1         8. 5           36. 3         9. 0           36. 2         10. 1           34. 9         10. 7	0.0	$\begin{array}{rrrrr} 45.9 & 4\\ 47.3 & 4\\ 53.3 & 5\\ 57.8 & 5\end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D13/D16 ■ AMP : KAF-02 ■ SPECTRUMANALYZER : KSA-R11

UL Japan, Inc. YAMAKITA No.1 Semi-anechoic chamber Report No. : 30CE0153-YK-01-A

Type Mode Ser Powe Mode Rema Date Tes Tem	e arks e t Distan perature idity		L	DVD AVH- TPIJ DC12 Tran AV ( 12/2 3 m 18 °C 44 9	smittin RBW:1MH 8/2009 C 6	iver g(2480 z,VBW	OMHz) :1,2;10	Hz, 3, 4, En	gineer	DHz) *1; : M		akatak	е
No.	FREQ. [MHz]	ANT TYPE	REAI HOR	DING	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RES HOR	ULT I VER V/m][dł	LIMITS 3μV/m]	HOR	RGIN VER HB]
$ \begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ \end{array} $	1920.062483.504960.007440.009920.0012400.00	BB BB BB	$\begin{array}{c} 34.\ 3\\ 45.\ 7\\ 33.\ 0\\ 32.\ 3\\ 31.\ 9\\ 31.\ 6\end{array}$	33. 9 45. 5 33. 9 32. 5 31. 9 31. 6	27.528.032.337.239.139.3	$\begin{array}{c} 36.\ 6\\ 36.\ 5\\ 36.\ 1\\ 36.\ 3\\ 36.\ 2\\ 34.\ 9\end{array}$	7.3 8.5 9.0 10.1		$31.8 \\ 44.5 \\ 37.7 \\ 42.2 \\ 44.9 \\ 46.7$	31. 444. 338. 642. 444. 946. 7	54. 054. 054. 054. 054. 054. 054. 0	22. 29. 516. 311. 89. 17. 3	$22.6 \\ 9.7 \\ 15.4 \\ 11.6 \\ 9.1 \\ 7.3$

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN. Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D13/D16 ■ AMP : KAF-02 ■ SPECTRUMANALYZER : KSA-R11

\*1) The noise is not pulse emission, therefore measurement was performed with 10Hz VBW according to DA00-705.

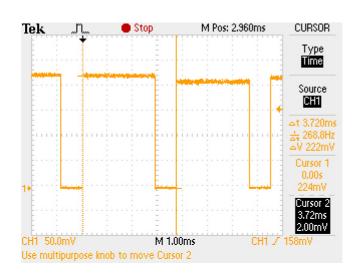
Company:	PIONEER CORPORATION	Report No.:	300	CE0153-YK-01-A	ł
Kind of Equipment:	DVD AV RECEIVER	Model No.:	AV	H-P5200BT	
Serial No.:	TPIJ000032	Power:	DC	C 12.0V	
		Duty Cycle			
		UL Japan, Inc. Yamakita EMC lab.	No.4	shielded room	

UL Japan, Inc. Yamakita EMC lab.	No.4 shielded
Date:	2009.12.28
Temp./Humid.:	21 deg. C. /
Engineer:	Akira Sato
Test mode:	Transmitting

34

%

[DH5]



Duty Cycle: 3.76ms AV Detector VBW: 1000 / 3.72ms = 268.82Hz → 300Hz

\* All the measured noise was pulse emission.

\* Duty cycle was within 100msec.

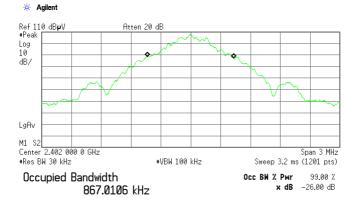
This purpose of the Duty Cycle calculation measures the pulse timing that we ensure Spectrum Analyzer can detect the pulse emission correctly. Therefore, if the pulse train can happen by 50msec(20Hz) or less, the average value measurement by setting the repetition frequency is done more correctly than VBW=10Hz that DA 00-705 accepts for AV detect. For instance, if pulse cycle is every 10msec, we set VBW = 100Hz(=1000/10) in order not to overlook a pulse unexpectedly.

## Occupied Bandwidth (99%) (Regulation: RSS-Gen 4.6.1)

(-		,		
	UL Japan, Inc. Yamakita EMC lab.	No.2	shielded room	ı
	Date:	2009.12	2.29	
	Temp./Humid.:	20	deg. C. / 33	3 %
	Engineer:	Akira S	ato	
	Test mode:	Transm	itting	

[Hopping off, DH5]

1. ch: 2402MHz/Occupied Bandwidth:867.0kHz

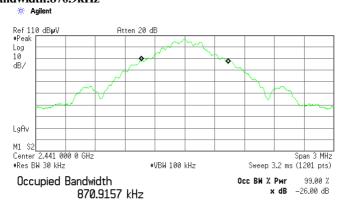


-1.582 kHz

1.128 MHz

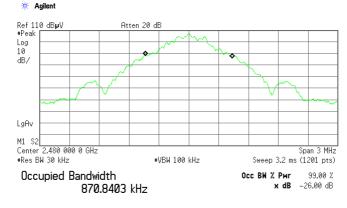
Transmit Freq Error x dB Bandwidth

## 2. ch : 2441MHz/Occupied Bandwidth:870.9kHz



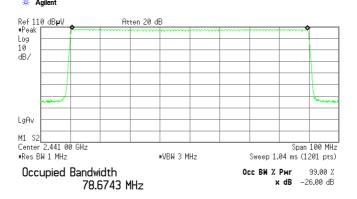
Transmit Freq Error-1.231 kHzx dB Bandwidth1.129 MHz

## 3. ch: 2480MHz/Occupied Bandwidth:870.8kHz



Transmit Freq Error-1.064 kHzx dB Bandwidth1.131 MHz

## 4. Hopping, DH5/Occupied Bandwidth:78.7MHz \*\* Agilent



Transmit Freq Error	–38.182 kHz
x dB Bandwidth	81.211 MHz

### APPENDIX 3 Test Instruments

#### EMI test equipment

ei KAEC-01(NSA) A KAF-05 P KAT6-01 A KBA-05 B KLA-06 Lu	emission(software) Anechoic Chamber Pre Amplifier Attenuator Biconical Antenna Logperiodic Antenna	UL Japan JSE Agilent INMET Schwarzbeck Schwarzbeck	RE(Ver.2.0) Semi 3m 8447D 18N-6dB BBA9106	- 1 2944A10150 -	RE RE RE RE	- 2009/08/20 * 12 2009/03/27 * 12
KAF-05 P KAT6-01 A KBA-05 B KLA-06 L KCC-30/31/32 C /34/37/KRM-0 M	Pre Amplifier Attenuator Biconical Antenna Logperiodic Antenna	Agilent INMET Schwarzbeck	8447D 18N-6dB	_	RE	2009/03/27 * 12
KAT6-01 A KBA-05 B KLA-06 Lu KCC-30/31/32 C /34/37/KRM-0 M	Attenuator Biconical Antenna Logperiodic Antenna	INMET Schwarzbeck	18N-6dB	_		
KBA-05 B KLA-06 Lu KCC-30/31/32 C /34/37/KRM-0 M	Biconical Antenna .ogperiodic Antenna	Schwarzbeck		-	RE	0000 (00 (10 + 10
KLA-06 Lo KCC-30/31/32 C /34/37/KRM-0 M	ogperiodic Antenna		BBA9106	0510		2009/03/10 * 12
KCC-30/31/32 C /34/37/KRM-0 M	5	Schwarzbeck		2513	RE	2009/07/12 * 12
/34/37/KRM-0 M			UKLP9140-A	125	RE	2009/06/13 * 12
	Coaxial Cable∕RF Relay ∕Iatrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/ RFM-E421	-/01055	RE	2009/10/27 * 12
KAF-02 P	Pre Amplifier	Hewlett Packard	8449B	3008A01268	RE	2009/04/24 * 12
KAT3-08 A	Attenuator	JFW IND. INC.	50HF-003N	_	RE	2009/08/18 * 12
KCC-D13/D16 C	Coaxial cable	Suhuner/INSULATED WIRE INC	SUCOFLEX104/KP S-1501-200-KPS	200723/4 /04202005	RE	2009/04/27 * 12
KSA-R11 S	Spectrum Analyzer	Advantest	R3273	130300486	RE	2009/11/27 * 12
KHA-02 H	Iorn Antenna	Schwarzbeck	BBHA9120D	230	RE	2009/04/24 * 12
KHA-04 H	Iorn Antenna	EMCO	3160-09	1278	RE	2009/04/24 * 12
KPM-08 P	Power meter	Anritsu	ML2495A	6K00003356	AT 5	2009/10/30 * 12
KPSS-04 P	ower sensor	Anritsu	MA2411B	012088	AT 5	2009/10/30 * 12
KSA-08 S	Spectrum Analyzer	Agilent	E4446A	MY46180525	AT 1,2,3,4,6	2009/01/22 * 12
KCC-D20 C	Coaxial Cable	SUHNER	SUCOFLEX102	31110/2		2009/07/30 * 12
KOSC-01 O	Dscilloscope	Tektronix	TDS-2022B	C050588	AT 7	2009/05/20 * 12
KOS-07 H	lumidity Indicator	Custom	CTH-190	K-07	AT all	2009/07/29 * 12
KOS-02 H	lumidity Indicator	Custom	CTH-190	K-02	RE	2009/07/23 * 12
KJM-07 M	leasure	KOMELON	KMC-36	_	RE	-
KDT-01 C	Coaxial Crystal Detector	Agilent	8473C	1822A05320	AT 7	Pre Check
KTR-04 T	est Receiver	Rohde & Schwarz	ESVS10	825475/006	RE	2009/03/03 * 12

The expiration date of the calibration is the end of the expired month .

As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards.

Test Item :

RE: Out of Band Emission (Radiated)

- AT: Antenna terminal conducted test
  - 1: Carrier Frequency Separation
  - 2: 20dB Bandwidth
  - **3: Number of Hopping Frequency**
  - 4: Dwell time
  - 5: Maximum Peak Output Power
  - 6: Out of Band Emission (Conducted)
  - 7: Duty cycle