

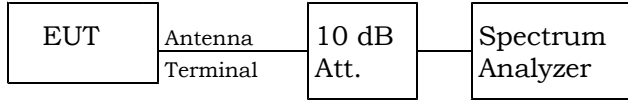
**Attachment B**

**Antenna Conducted Spurious Emission Measurement (§2.1051,§24.238))  
 -Spurious Emission Except the harmonics frequency-**

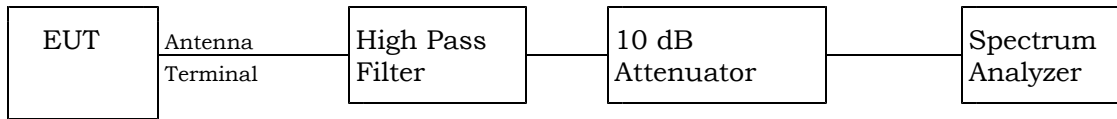
**Test Procedure :**

The Antenna Conducted Emission was measured with a spectrum analyzer. The test system is shown as follows:

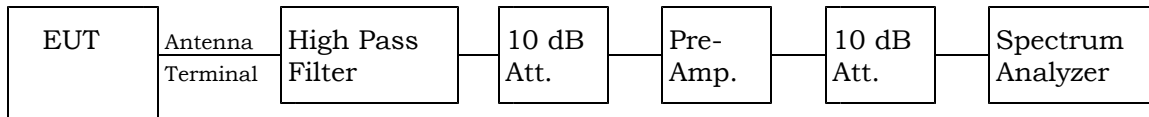
1) Frequency Range : 9kHz - 2.2GHz



2) Frequency Range : 2.2GHz - 6GHz



3) Frequency Range : 6GHz - 20GHz



Antenna Conducted Spurious Emission Measurement

**Test location :**

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

● - Shielded room

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - Shielded room

**Used test instruments:**

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - MP721C	D - 66		
● - 4T-10	D - 73	May, 2003	1 Year
● - 4T-10	D - 74	May, 2003	1 Year
● - 2-10	D - 40	July, 2003	1 Year
○ - 2-10	D - 79		
○ - 2-10	D - 80		
● - UHP-127	D - 42	May, 2003	1 Year
○ - UHP-128	D - 43		
● - 8566B	A - 13	February, 2003	1 Year
○ - 8593A	A - 15		
● - DBL-0618N515	A - 33	May, 2003	1 Year
● - MZ5010C	D - 81	November, 2002	1 Year
● - 8673D	B - 2	April, 2003	1 Year
● - Cable	C - 40 - 9	June, 2003	1 Year
● - Cable	C - 40 - 11	May, 2003	1 Year
● - Cable	C - 40 - 12	May, 2003	1 Year

**Environmental conditions:**

Temperature: 24 °C Humidity: 60 %

Measurement Result:

The plot data is shown in the attachment.

- Pages 3-11 : ANT 1
- Pages 12-20 : ANT 2
- Pages 21-29 : ANT 3
- Pages 30-38 : ANT 4
- Pages 39-47 : ANT 5
- Pages 48-56 : ANT 6
- Pages 57-65 : ANT 7
- Pages 66-74 : ANT 8

The all spurious emission not listed in pages 40-48 of 63 in KL8030385 were found to be more than 20 dB below the limit.

Sample Calculation:

**Transmitting Frequency :1880.150 MHz at ANT1**

Frequency [MHz]	Correction Factor [dB]	Meter Readings (dBm)	Limits (dBm)	Results (dBm)
3760.300	11.7	-59.9	-13.0	-48.2
5640.450	11.7	< -62.0	-13.0	< -50.3
7520.600	-16.8	-48.6	-13.0	-65.4
15041.200	-16.1	-47.2	-13.0	-63.3

Note: The Amp Gain , the attenuator loss and the cable loss are included in the correction factor.

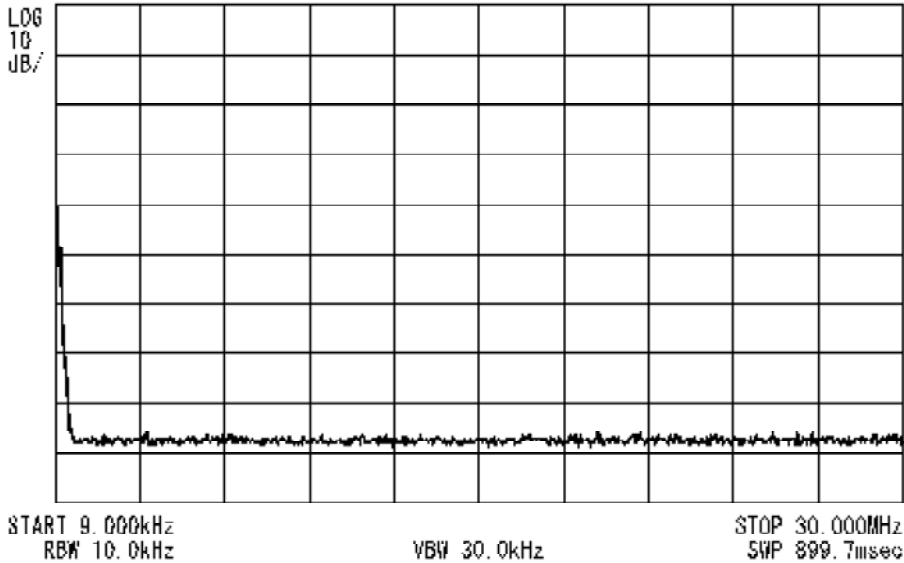
Judgement procedure:

The spurious data is compared to the antenna conducted emission level of the discrete frequencies of pages 40-48 of 62.

**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 9kHz - 30 MHz

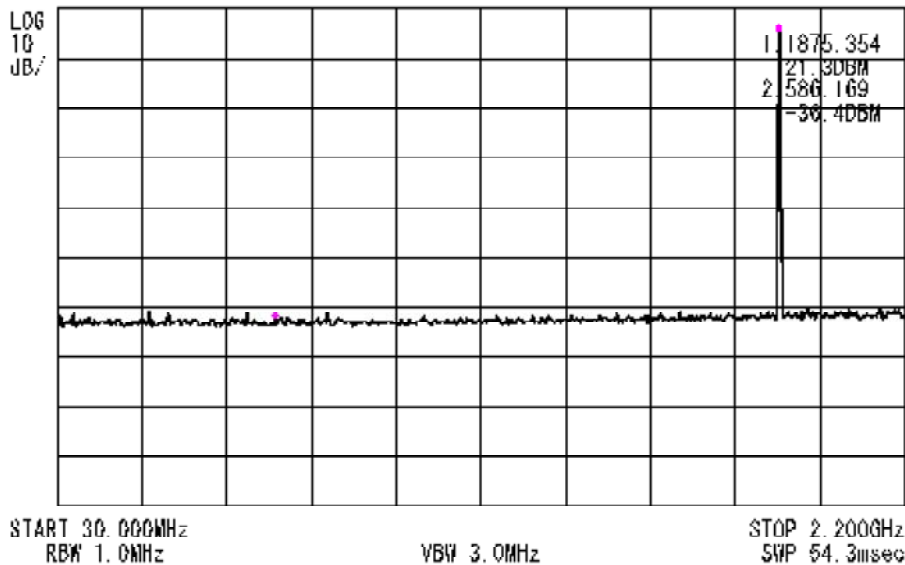
Antenna Conducted Spurious PBS-CS47  
ANT1 1880.15MHz (206CH) 9kHz-30MHz  
Sunday Sep 21 2003 15:54:07  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 30MHz - 2.2GHz

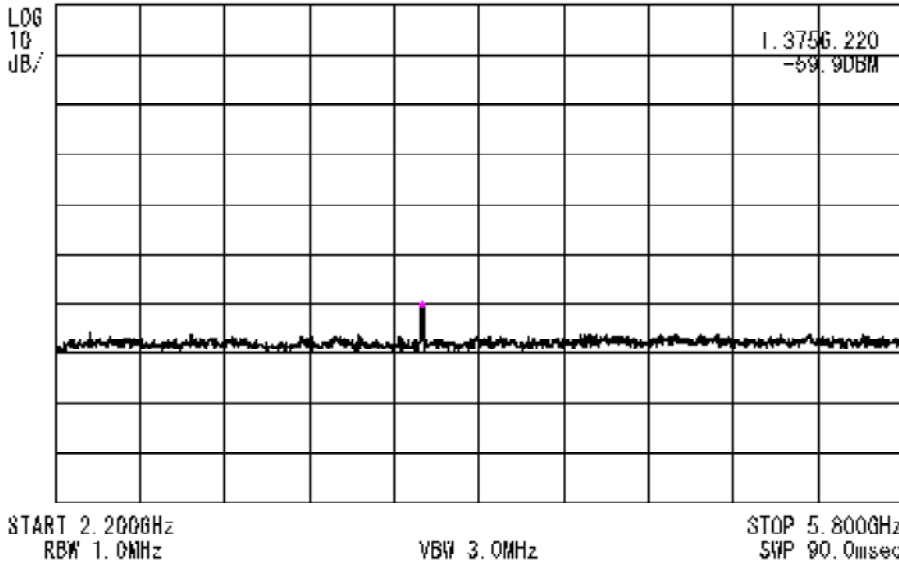
Antenna Conducted Spurious PBS-CS47  
ANT1 1880.15MHz (206CH) 30MHz-2.2GHz  
Sunday Sep 21 2003 16:58:12  
REF 25.0 DBM ATT 40dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 2.2GHz - 5.8GHz

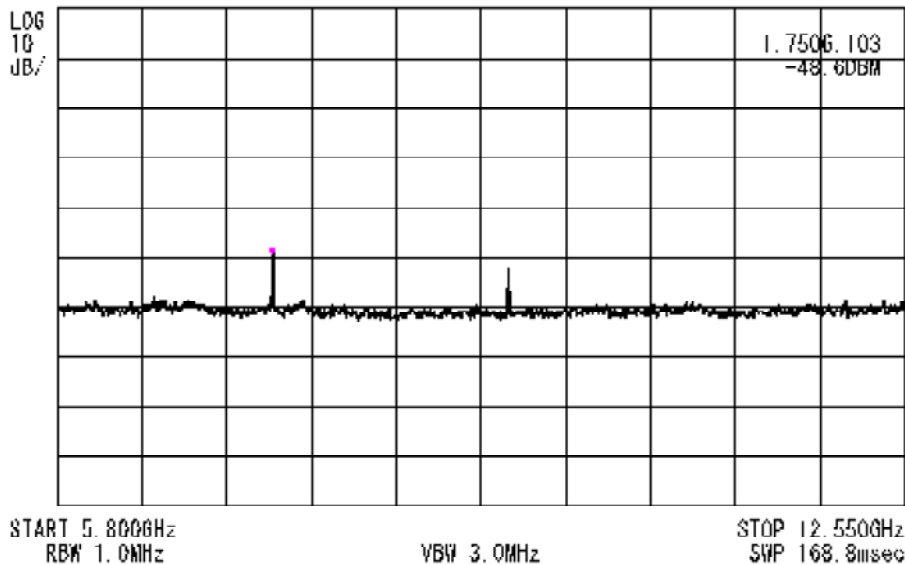
Antenna Conducted Spurious PBS-CS47  
ANT1 1880.15MHz (206CH) 2.2GHz-5.8GHz  
Sunday Sep 21 2003 18:12:07  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 5.8GHz - 12.55GHz

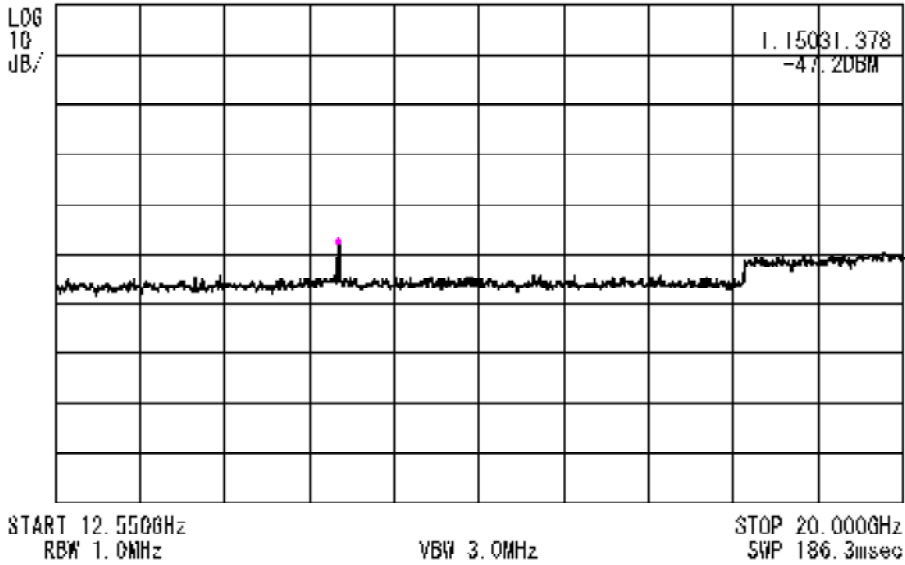
Antenna Conducted Spurious PBS-CS47  
ANT1 1880.15MHz (206CH) 5.8GHz-12.55GHz  
Monday Sep 22 2003 10:16:44  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 12.55GHz - 20GHz

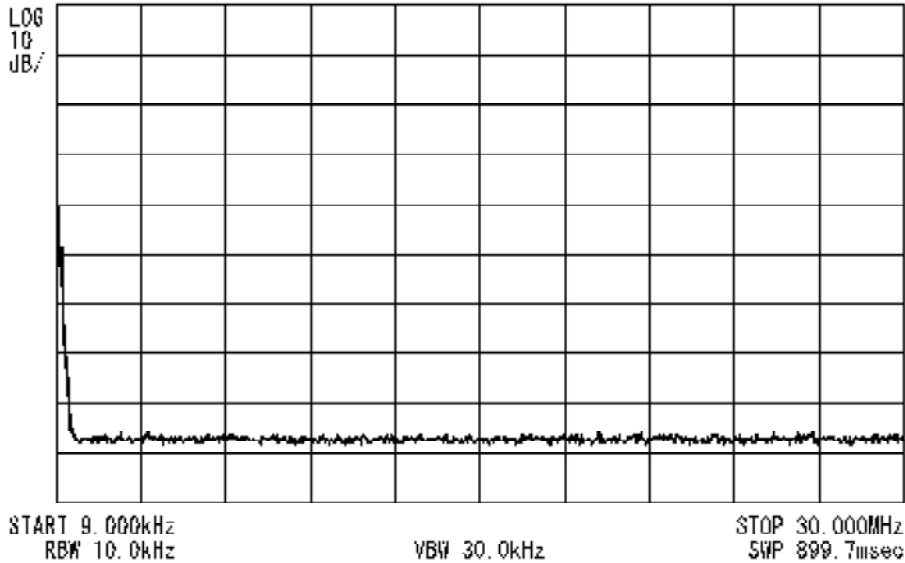
Antenna Conducted Spurious PBS-CS47  
ANT1 1880.15MHz (206CH) 12.55GHz-20GHz  
Monday Sep 22 2003 11:39:54  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 9kHz - 30 MHz

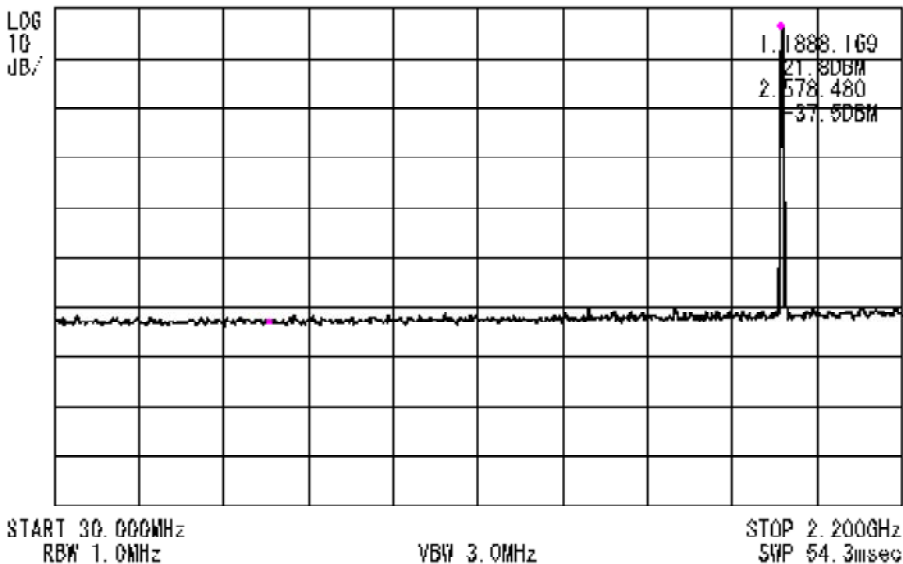
Antenna Conducted Spurious PBS-CS47  
ANT1 1894.85MHz(255CH): 9kHz-30MHz  
Sunday Sep 21 2003 16:05:00  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 30MHz - 2.2GHz

Antenna Conducted Spurious PBS-CS47  
ANT1 1894.85MHz(255CH): 30MHz-2.2GHz  
Sunday Sep 21 2003 17:18:59  
REF 25.0 DBM ATT 40dB

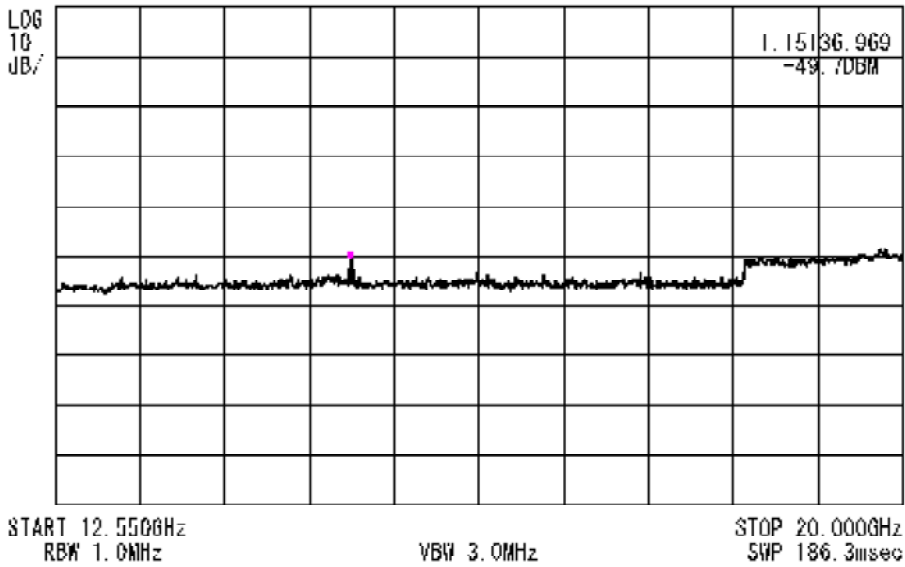




**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 12.55GHz - 20GHz

Antenna Conducted Spurious PBS-CS47  
ANT1 1894.85MHz (255CH) 12.55GHz-20GHz  
REF 0.0 DBM ATT 10dB  
Monday Sep 22 2003 12:54:17

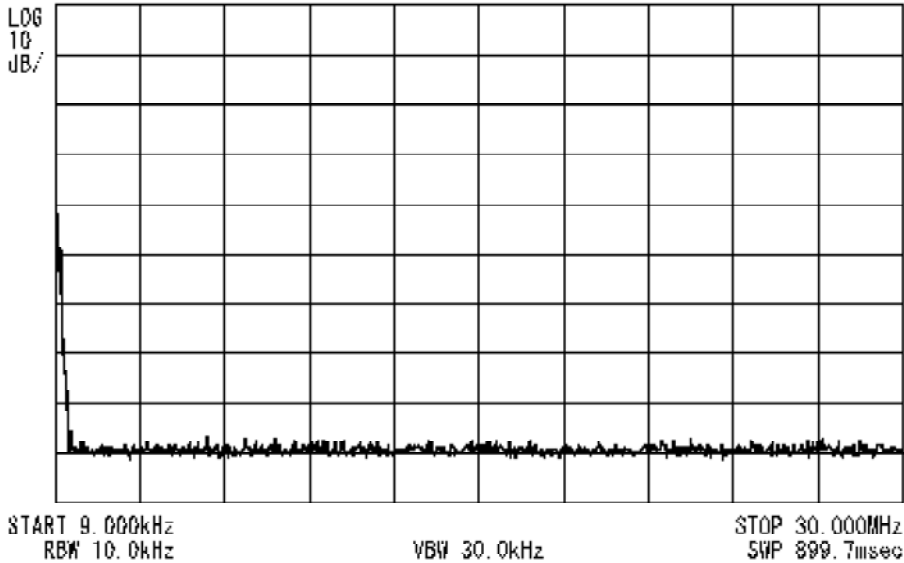




**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 9kHz - 30 MHz

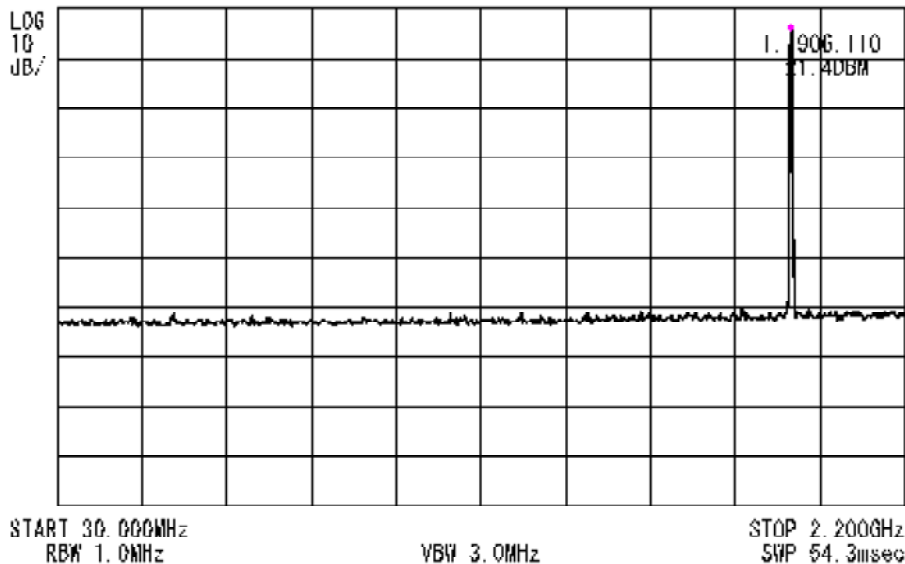
Antenna Conducted Spurious PBS-CS47  
ANT1 1909.550MHz(49CH) 9kHz - 30MHz  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 30MHz - 2.2GHz

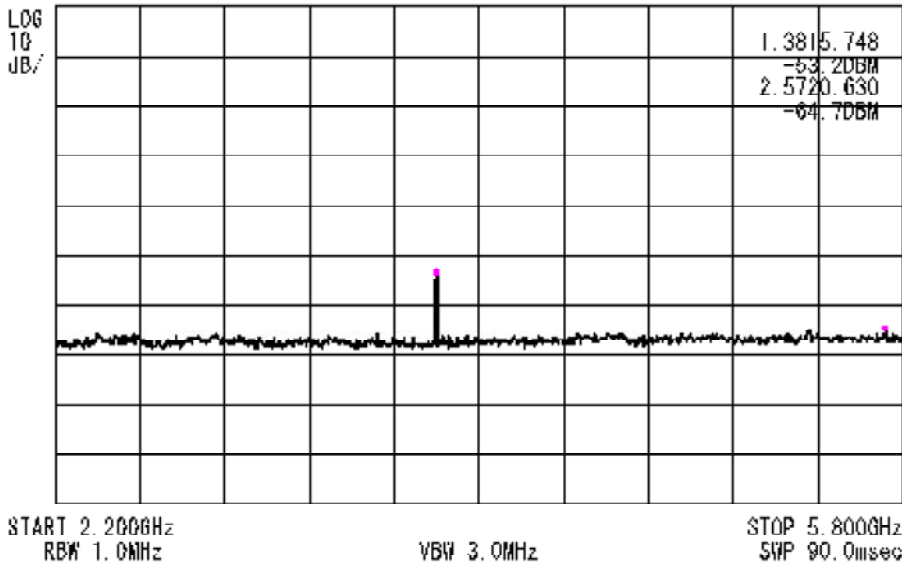
Antenna Conducted Spurious PBS-CS47  
ANT1 1909.550MHz(49CH) 30MHz - 2.2GHz  
REF 25.0 DBM ATT 40dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
 Transmitting Frequency : 1909.550 MHz (49 ch)  
 Frequency Range : 2.2GHz - 5.8GHz

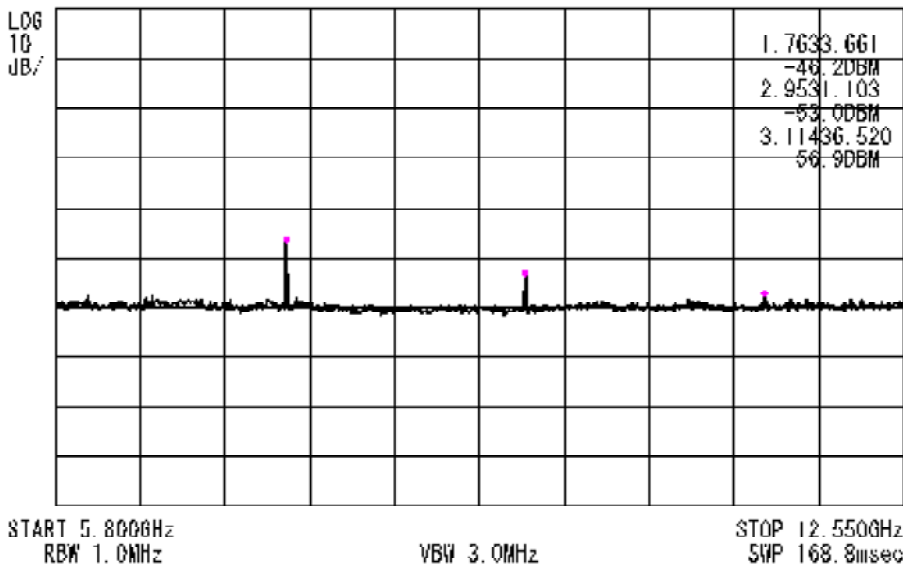
Antenna Conducted Spurious PBS-CS47  
 ANT1 1909.550MHz(49CH) 2.2GHz - 5.8GHz  
 REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
 Transmitting Frequency : 1909.550 MHz (49 ch)  
 Frequency Range : 5.8GHz - 12.55GHz

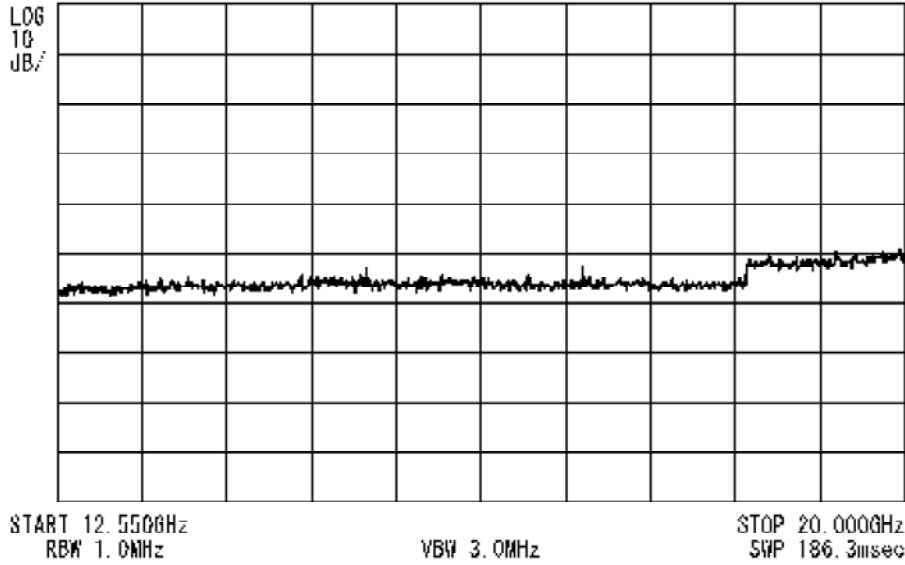
Antenna Conducted Spurious PBS-CS47  
 ANT1 1909.550MHz(49CH) 5.8GHz - 12.55GHz  
 REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 1  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 12.55GHz - 20GHz

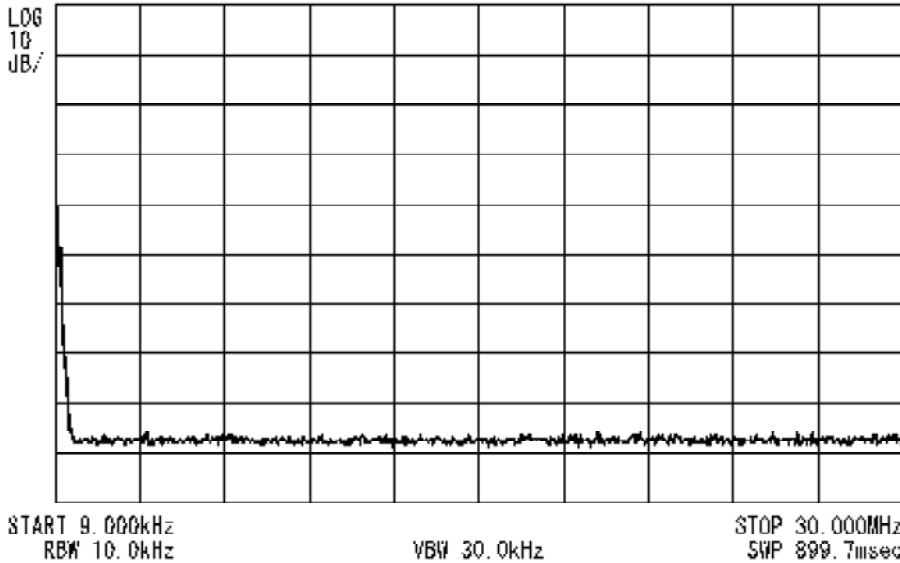
Antenna Conducted Spurious PBS-CS47  
ANT1 1909.550MHz(49CH) 12.55GHz- 20GHz  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 9kHz - 30 MHz

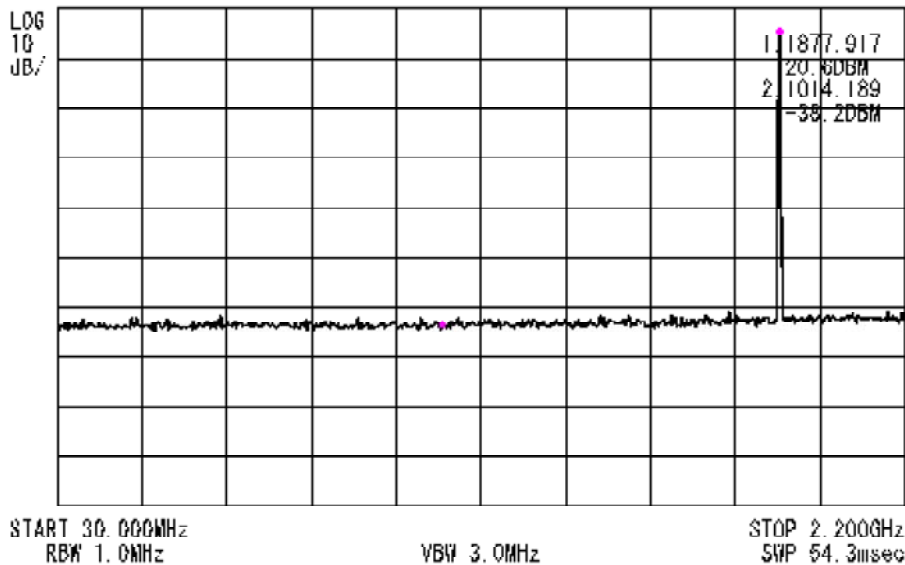
Antenna Conducted Spurious PBS-CS47  
ANT2 1880.15MHz (206CH) 9kHz-30MHz  
Sunday Sep 21 2003 15:55:11  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 30MHz - 2.2GHz

Antenna Conducted Spurious PBS-CS47  
ANT2 1880.15MHz (206CH) 30MHz-2.2GHz  
Sunday Sep 21 2003 16:59:43  
REF 25.0 DBM ATT 40dB

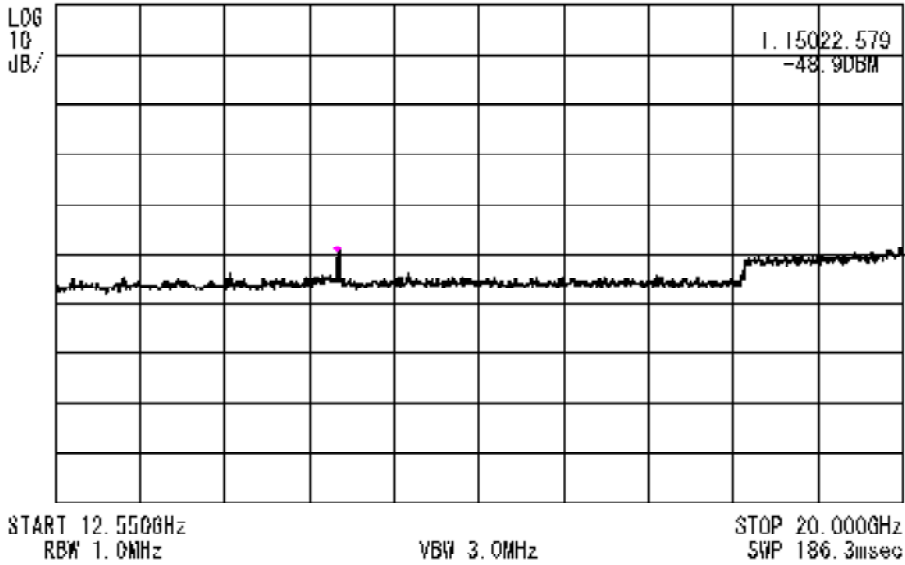




**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 12.55GHz - 20GHz

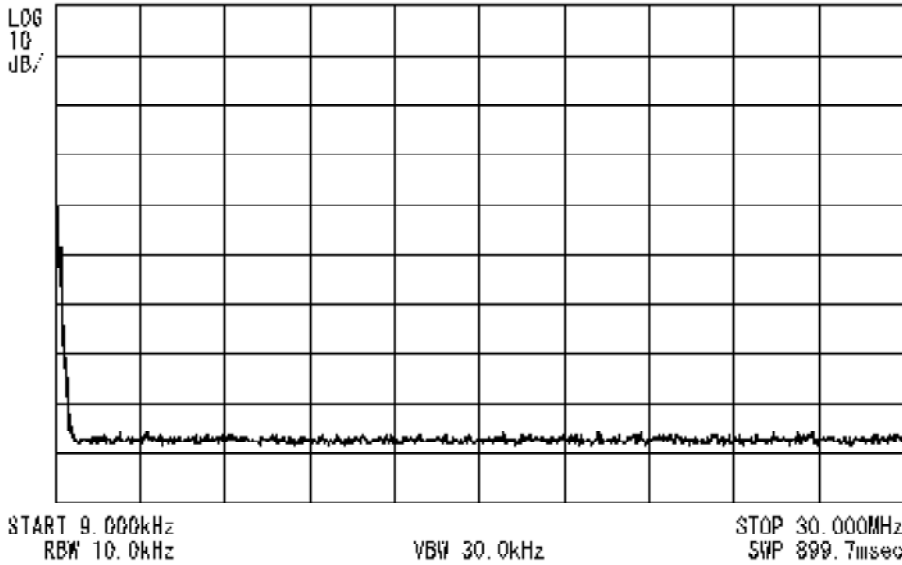
Antenna Conducted Spurious PBS-CS47  
ANT2 1880.15MHz (206CH) 12.55GHz-20GHz  
Monday Sep 22 2003 11:41:27  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 9kHz - 30 MHz

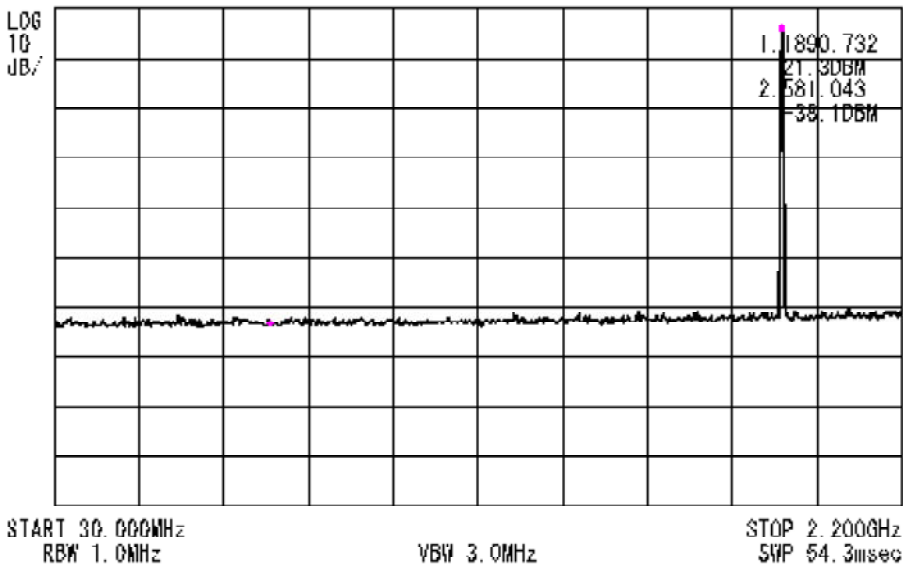
Antenna Conducted Spurious PBS-CS47  
ANT2 1894.85MHz (255CH) 9kHz-30MHz  
REF 10.0 DBM ATT 20dB  
Sunday Sep 21 2003 16:05:49



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 30MHz - 2.2GHz

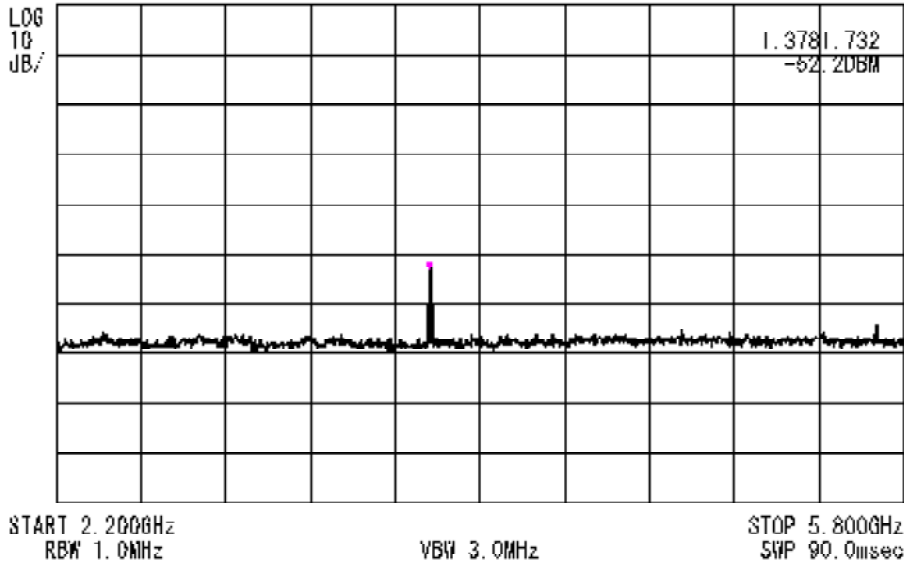
Antenna Conducted Spurious PBS-CS47  
ANT2 1894.85MHz (255CH) 30MHz-2.2GHz  
REF 25.0 DBM ATT 40dB  
Sunday Sep 21 2003 17:20:18



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 2.2GHz - 5.8GHz

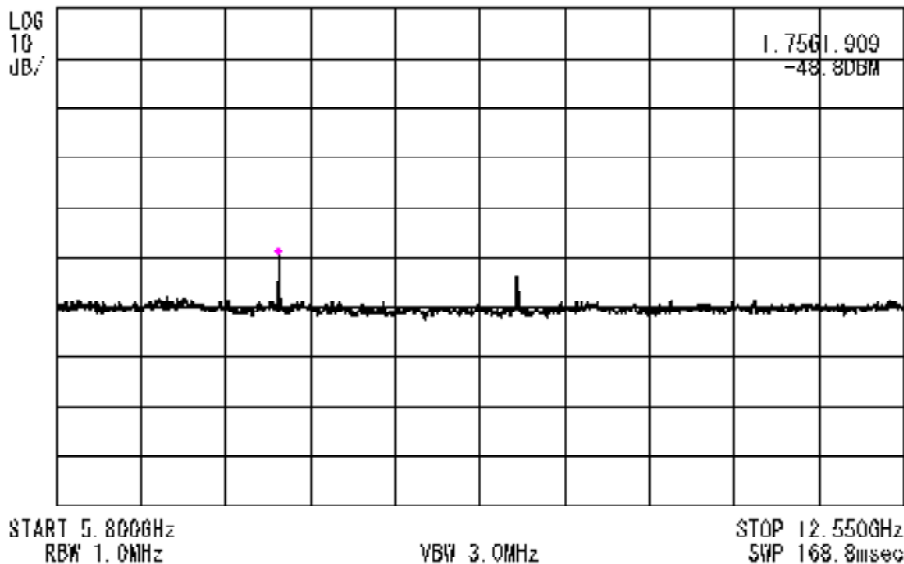
Antenna Conducted Spurious PBS-CS47  
ANT2 1894.85MHz(255CH); 2.2GHz-5.8GHz  
Sunday Sep 21 2003 18:33:20  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 5.8GHz - 12.55GHz

Antenna Conducted Spurious PBS-CS47  
ANT2 1894.85MHz(255CH); 5.8GHz-12.55GHz  
Monday Sep 22 2003 10:48:56  
REF 0.0 DBM ATT 10dB

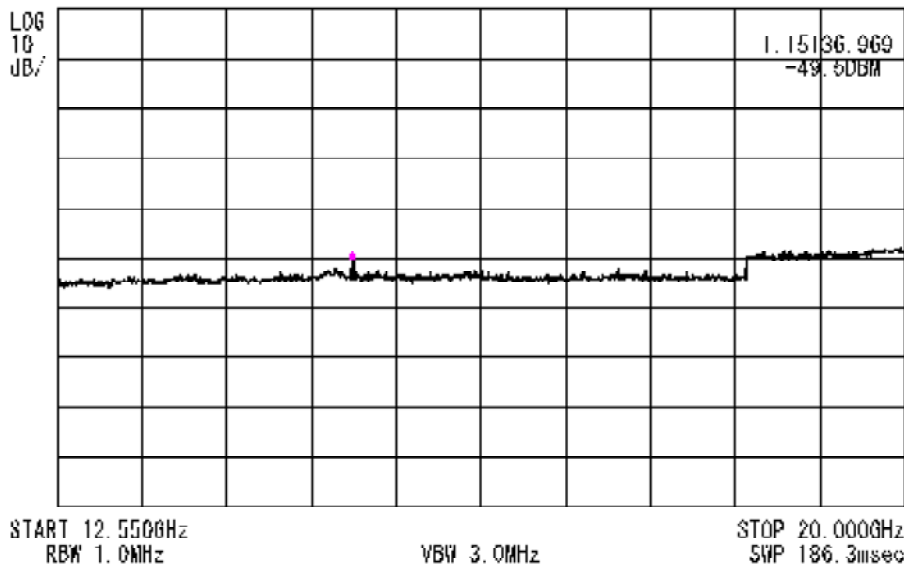




**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 12.55GHz - 20GHz

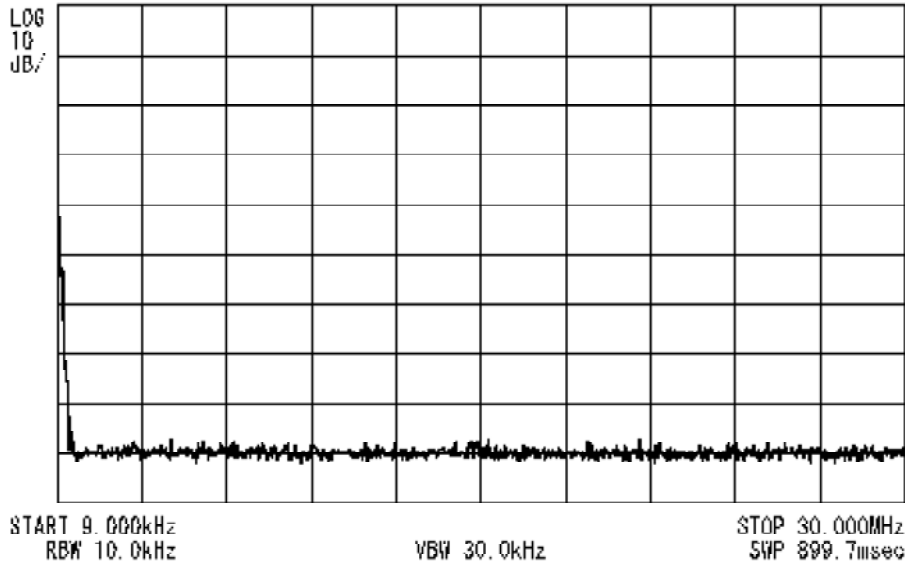
Antenna Conducted Spurious PBS-CS47  
ANT2 1894.85MHz (255CH) 12.55GHz-20GHz  
Monday Sep 22 2003 12:49:27  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 9kHz - 30 MHz

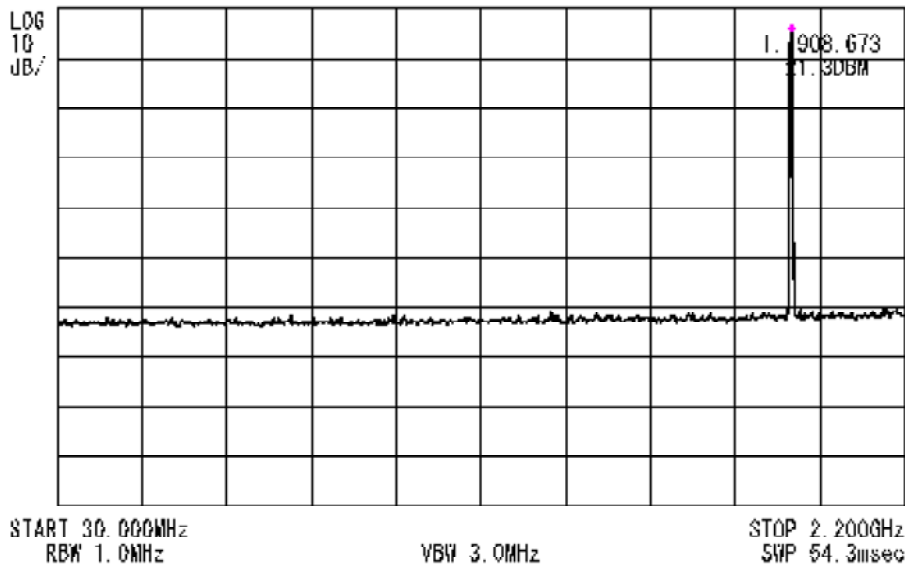
Antenna Conducted Spurious PBS-CS47  
ANT2 1909.550MHz(49CH) 9kHz - 30MHz  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 30MHz - 2.2GHz

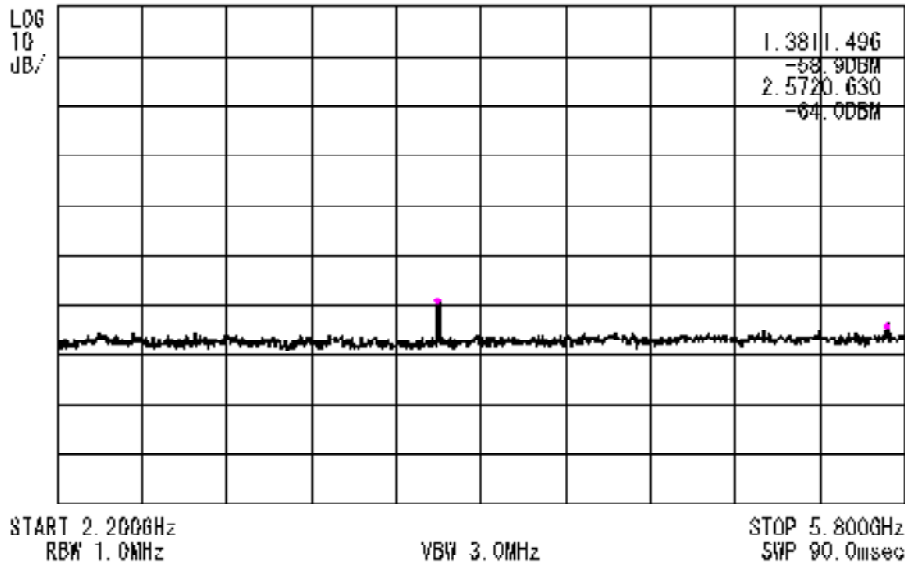
Antenna Conducted Spurious PBS-CS47  
ANT2 1909.550MHz(49CH) 30MHz - 2.2GHz  
REF 25.0 DBM ATT 40dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 2.2GHz - 5.8GHz

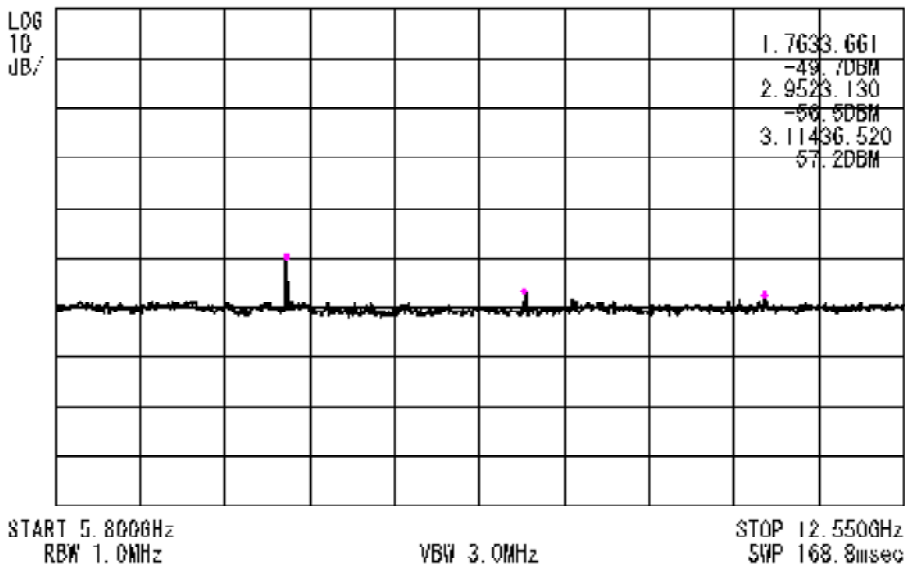
Antenna Conducted Spurious PBS-CS47  
ANT2 1909.550MHz(49CH) 2.2GHz - 5.8GHz  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 5.8GHz - 12.55GHz

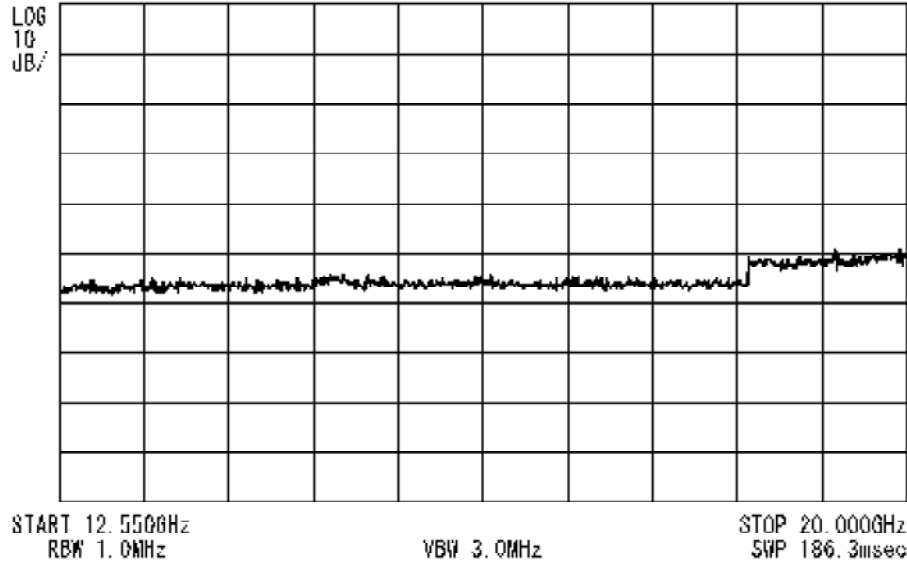
Antenna Conducted Spurious PBS-CS47  
ANT2 1909.550MHz(49CH) 5.8GHz - 12.55GHz  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 2  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 12.55GHz - 20GHz

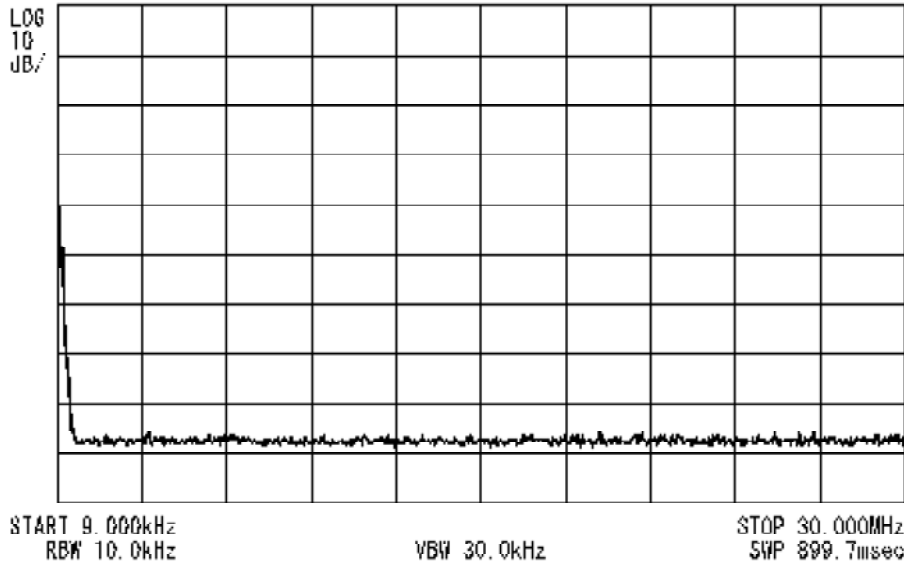
Antenna Conducted Spurious PBS-CS47  
ANT2 1909.550MHz(49CH) 12.55GHz- 20GHz  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 9kHz - 30 MHz

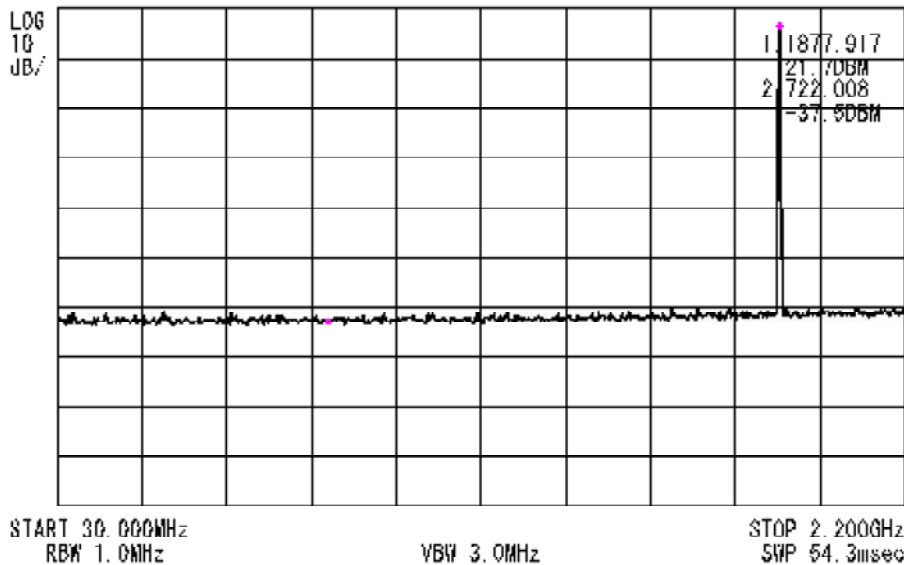
Antenna Conducted Spurious PBS-CS47  
ANT3 1880.15MHz (206CH) 9kHz-30MHz  
Sunday Sep 21 2003 15:56:01  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 30MHz - 2.2GHz

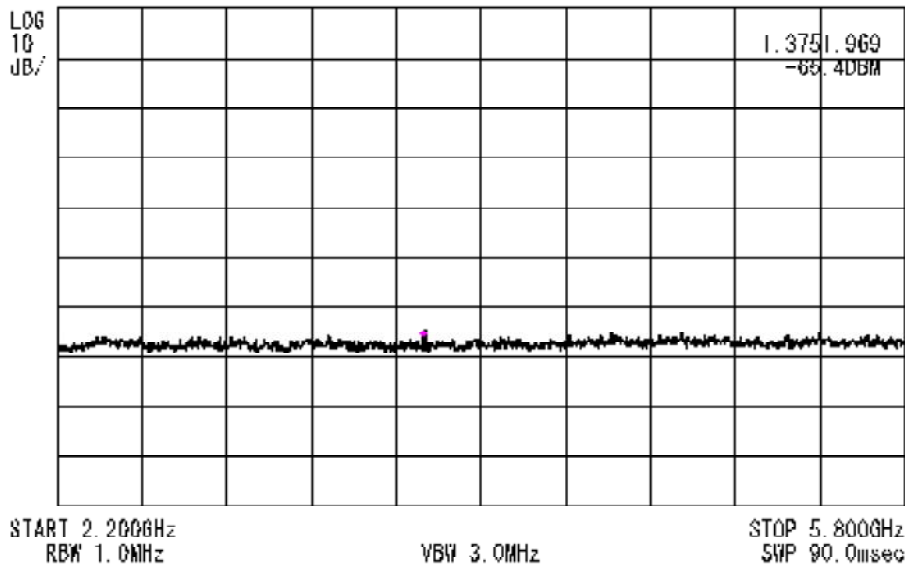
Antenna Conducted Spurious PBS-CS47  
ANT3 1880.15MHz (206CH) 30MHz-2.2GHz  
Sunday Sep 21 2003 17:01:21  
REF 25.0 DBM ATT 40dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 2.2GHz - 5.8GHz

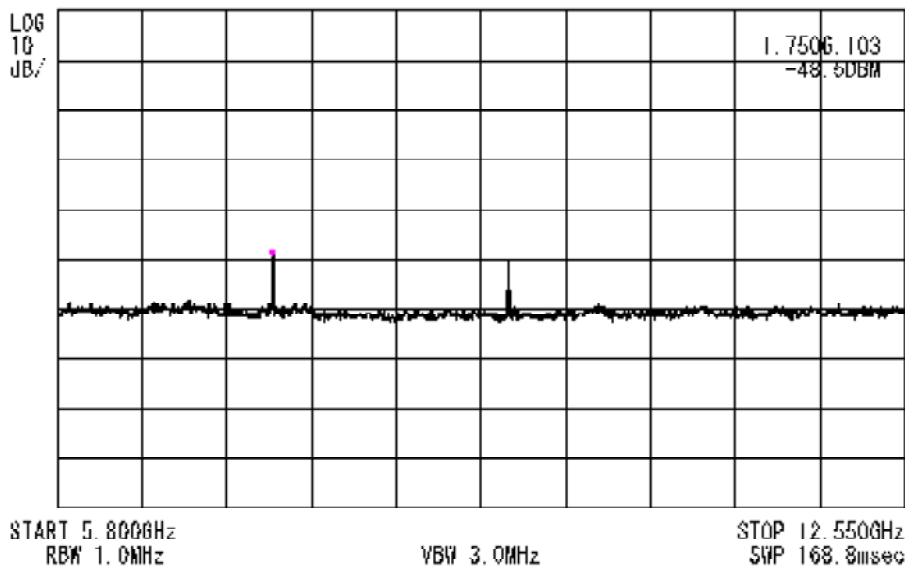
Antenna Conducted Spurious PBS-CS47 Sunday Sep 21 2003 18:17:34  
ANT3 1880.15MHz (206CH) 2.2GHz-5.8GHz  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 5.8GHz - 12.55GHz

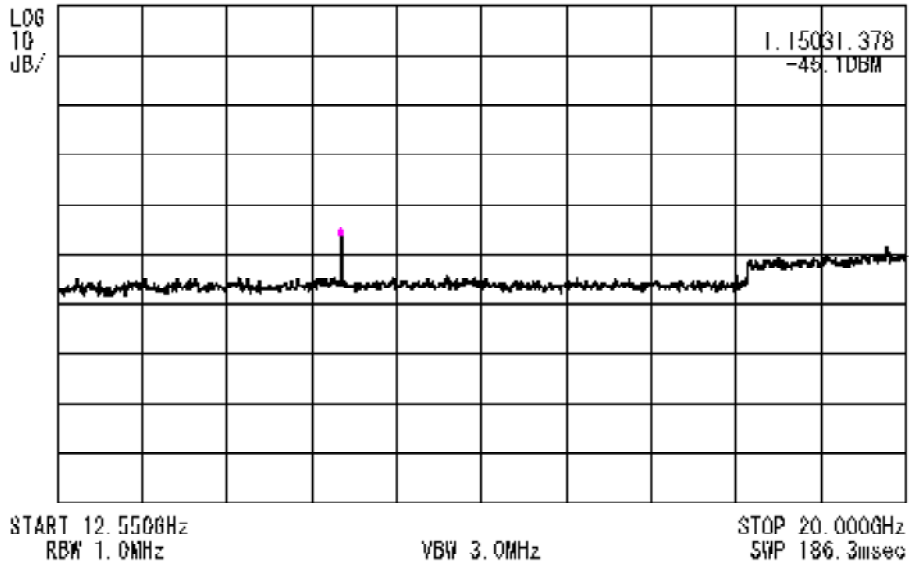
Antenna Conducted Spurious PBS-CS47 Monday Sep 22 2003 10:25:44  
ANT3 1880.15MHz (206CH) 5.8GHz-12.55GHz  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1880.150 MHz (206 ch)  
Frequency Range : 12.55GHz - 20GHz

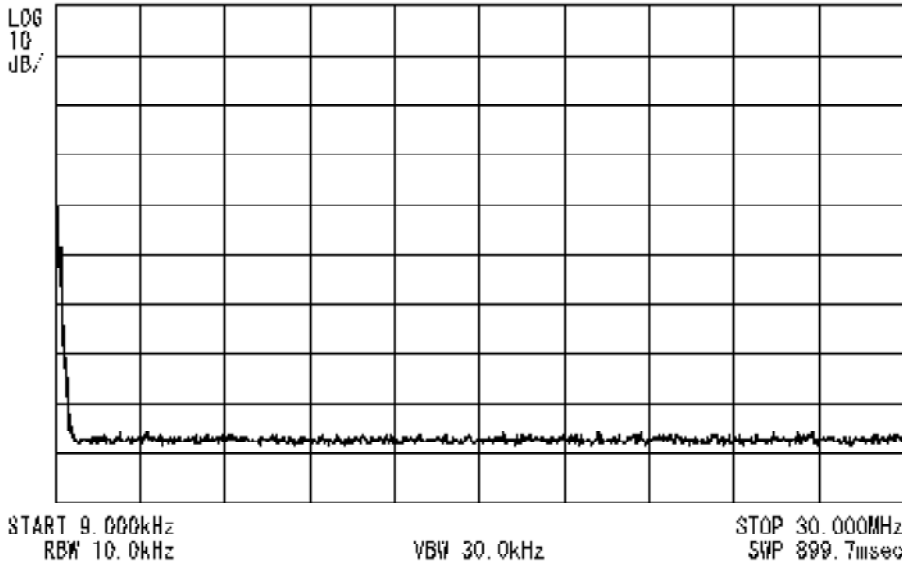
Antenna Conducted Spurious PBS-CS47  
ANT3 1880.150MHz(206CH); 12.55GHz-20GHz  
Monday Sep 22 2003 11:43:00  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 9kHz - 30 MHz

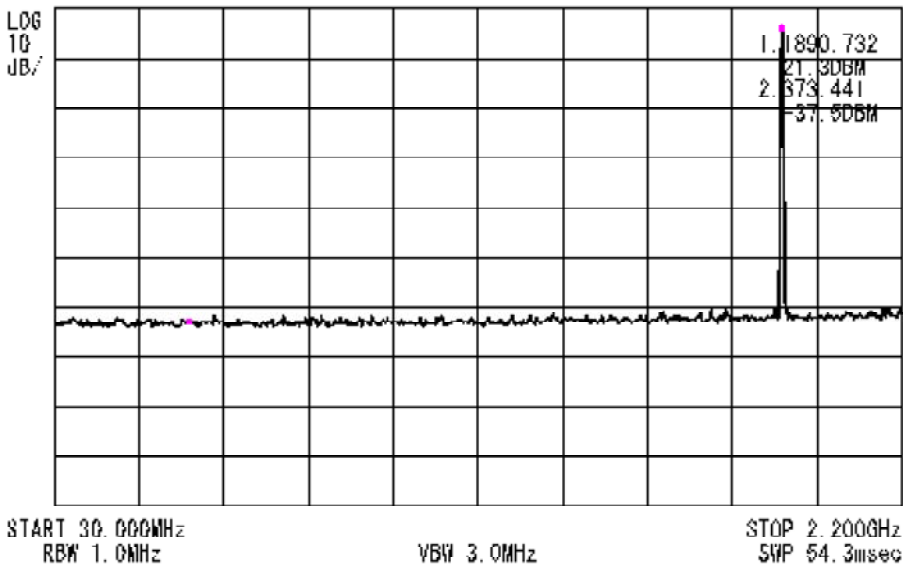
Antenna Conducted Spurious PBS-CS47  
ANT3 1894.85MHz (255CH) 9kHz-30MHz  
REF 10.0 DBM ATT 20dB  
Sunday Sep 21 2003 16:06:36



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 30MHz - 2.2GHz

Antenna Conducted Spurious PBS-CS47  
ANT3 1894.85MHz (255CH) 30MHz-2.2GHz  
REF 25.0 DBM ATT 40dB  
Sunday Sep 21 2003 17:21:44

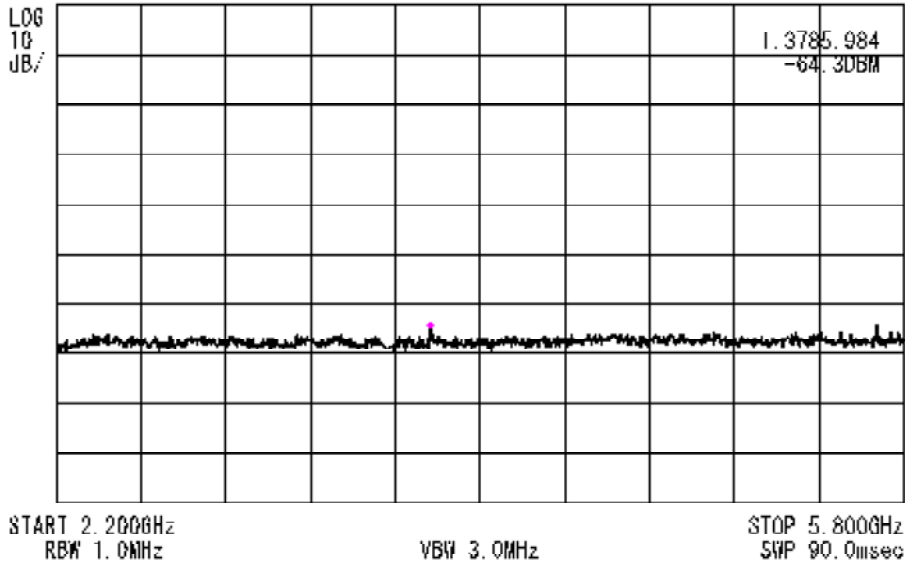




**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 2.2GHz - 5.8GHz

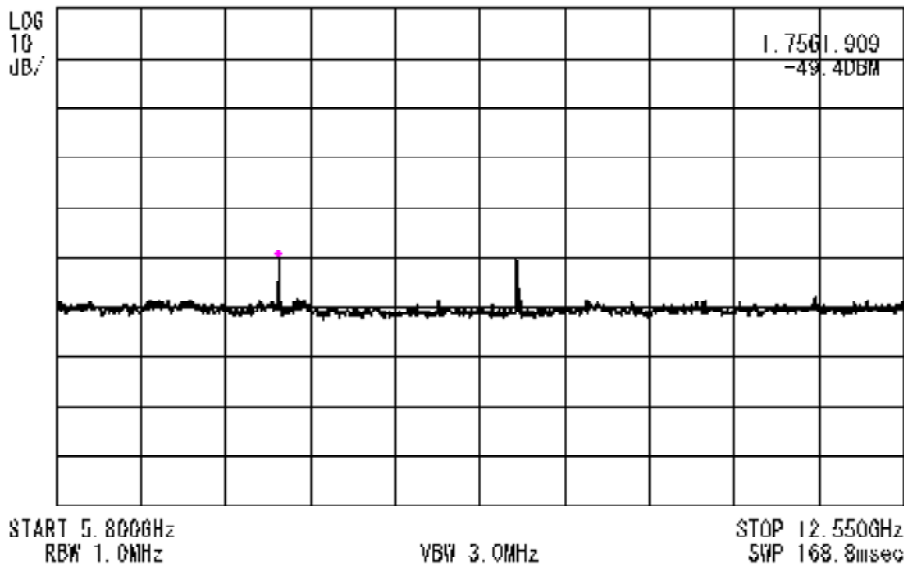
Antenna Conducted Spurious PBS-CS47  
ANT3 1894.85MHz(255CH); 2.2GHz-5.8GHz  
Sunday Sep 21 2003 18:31:12  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 5.8GHz - 12.55GHz

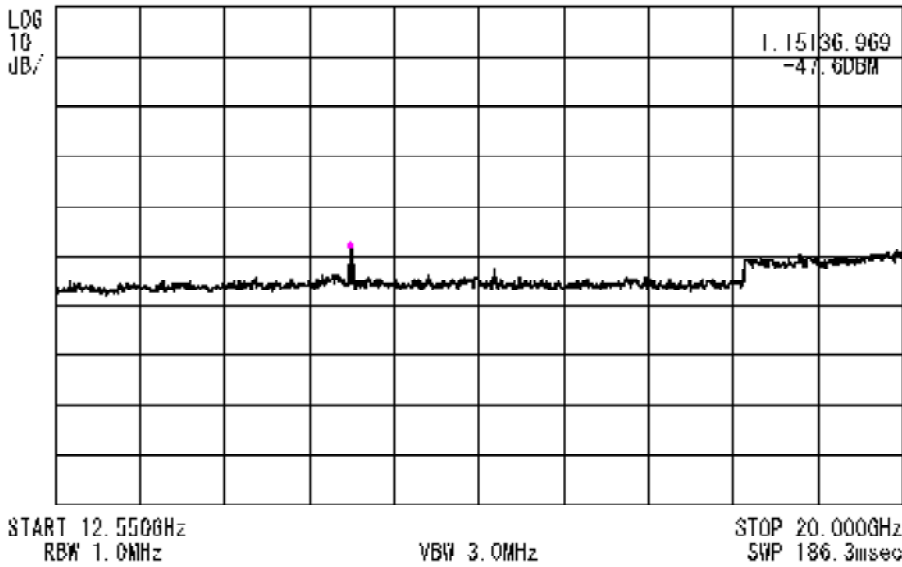
Antenna Conducted Spurious PBS-CS47  
ANT3 1894.85MHz(255CH); 5.8GHz-12.55GHz  
Monday Sep 22 2003 10:50:28  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1894.850 MHz (255 ch)  
Frequency Range : 12.55GHz - 20GHz

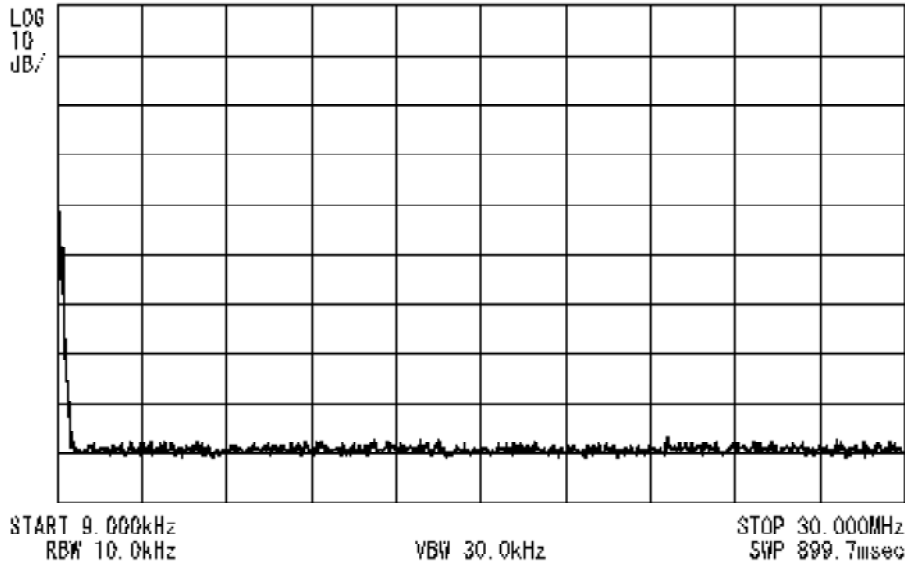
Antenna Conducted Spurious PBS-CS47  
ANT3 1894.85MHz (255CH) 12.55GHz-20GHz  
Monday Sep 22 2003 12:52:06  
REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 9kHz - 30 MHz

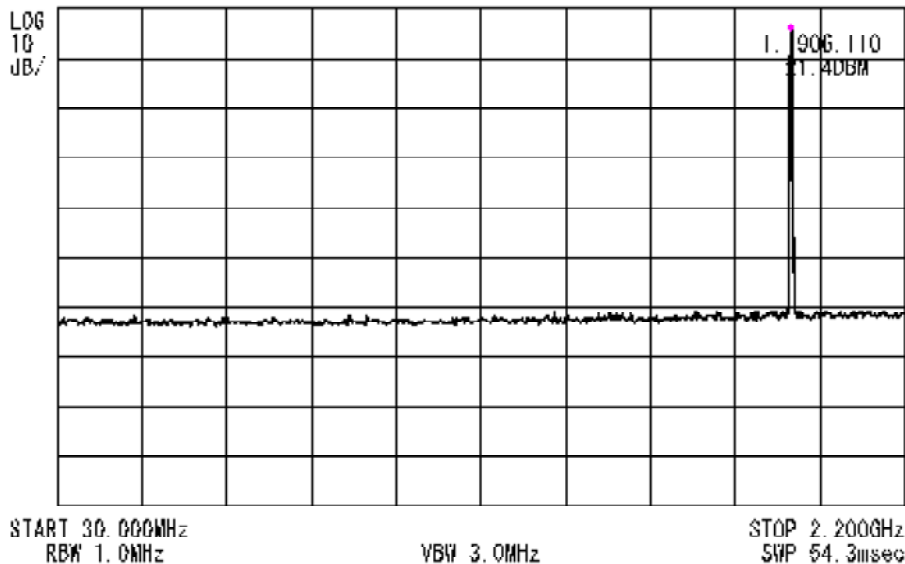
Antenna Conducted Spurious PBS-CS47  
ANT3 1909.550MHz(49CH) 9kHz - 30MHz  
REF 10.0 DBM ATT 20dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 30MHz - 2.2GHz

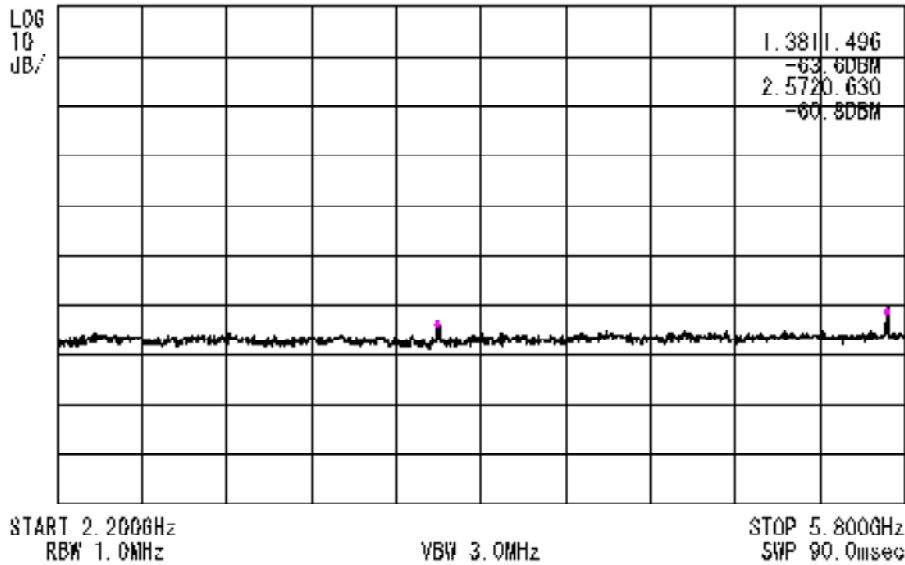
Antenna Conducted Spurious PBS-CS47  
ANT3 1909.550MHz(49CH) 30MHz - 2.2GHz  
REF 25.0 DBM ATT 40dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
 Transmitting Frequency : 1909.550 MHz (49 ch)  
 Frequency Range : 2.2GHz - 5.8GHz

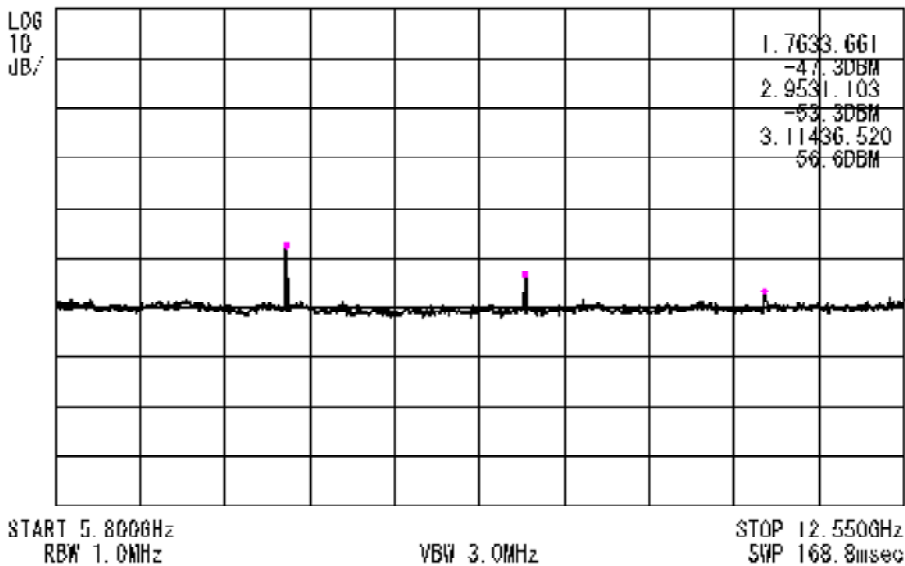
Antenna Conducted Spurious PBS-CS47  
 ANT3 1909.550MHz(49CH) 2.2GHz - 5.8GHz  
 REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
 Transmitting Frequency : 1909.550 MHz (49 ch)  
 Frequency Range : 5.8GHz - 12.55GHz

Antenna Conducted Spurious PBS-CS47  
 ANT3 1909.550MHz(49CH) 5.8GHz - 12.55GHz  
 REF 0.0 DBM ATT 10dB



**Antenna Conducted Spurious Emission Measurement**

Ant terminal : ANT 3  
Transmitting Frequency : 1909.550 MHz (49 ch)  
Frequency Range : 12.55GHz - 20GHz

Antenna Conducted Spurious PBS-CS47  
ANT3 1909.550MHz(49CH) 12.55GHz- 20GHz  
REF 0.0 DBM ATT 10dB

