

1TX 1RX

# 5GHz Band Low-Power Data Communication System (802.11a W53)

## TEST REPORT

To. **Digi International Inc.**



**DSP RESEARCH, INC.**

**Tested by;**

Hiraku Irie X  
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**Approved by;**

Koichi Minaki X  
Koichi Minaki

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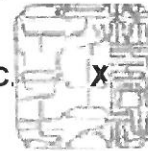
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# 1. TEST RESULT REPORT

Date of issue; 2012/10/1

 Test Laboratory:  
**DSP RESEARCH, INC.**


Inspection Result of Specified Radio Equipment is reported as mention in the following.

| Description  |  |
|--|--|
| 1. Model Name  | W9M2443  |
| 2. Serial Number   | N/A  |
| 3. Number of Tested Equipment  | 1  |
| 4. Test Method   | Measurement was conducted by the following test method: the test method of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 45 of Article 88, Paragraph 1 or the test method more than equivalent. |
| 5. Date of Testing   | 2012/9/25  |
| 6. Place of Testing  | DSP RESEARCH, INC.<br>1-4-3 Minatojima, Minamimachi, Chuo-ku, Kobe City,<br>Hyogo, 650-0047, Japan   |
| 7. Test Result   | PASS (Refer to attachment)   |
| 8. Measurement Equipment   | Refer to Item 3  |
| 9. Classification of Specified Radio Equipment                             | Article 2 Clause 1 Item 19-3   |
| 10. Type of Emissions, Frequency and Declaration Output Power to be tested | D1D, G1D 5.26, 5.28, 5.30, 5.32GHz<br>0.0012W/MHz  |

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**2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION**

|  |                  |                  |     |
|--|------------------|------------------|-----|
| Environment of Test Room                   | Temperature      | 27 °C            |     |
|  | Humidity         | 60 %             |     |
| Peak Antenna Gain                          | 3.6              | dBi              |     |
| Declaration Output Power                   | 1.2              | mW/MHz           |     |
| Declaration Output Power                   | 0.7918           | dBm/MHz          |     |
| <b>E.I.R.P</b>                             | <b>4.3918</b>    | <b>dBm/MHz</b>   |     |
| Input Power Voltage                        | 3.3              | VDC              |     |
| Tested Circuit<br>Insertion Loss<br>for TX | TX1              | 16.508           | dB  |
|  | TX2              |                  | dB  |
|  | TX3              |                  | dB  |
| Tested Circuit<br>Insertion Loss<br>for RX | RX1              | 3.728            | dB  |
|  | RX2              |                  | dB  |
|  | RX3              |                  | dB  |
| Burst                                      | ON TIME          | -Not applicable- | sec |
|  | OFF TIME         | -Not applicable- | sec |
|  | Ratio            | -Not applicable- | %   |
| Packet Type (Mode)                         | -Not applicable- | mode             |     |

• This equipment is a client that does not support TPC function.

Test Category ; 5GHz Band Low-Power Data Communication System (802.11a W53)

Comprehensive operation test

: In order to receive constant voltage from DC regulator, power supply voltage examines only by usual state voltage.

**2.1. TEST Results (W53)**

| Measurement Frequency   | MHz    | 5260       | 5320        | Result      | Note |
|---|--------|------------|-------------|-------------|------|
| Channel Number  | Ch.    | 52         | 64          | -----       |      |
| Reading Frequency (TX1)                                       | MHz    | 5260.00111 | 5320.001236 | -----       |      |
| Frequency Tolerance (TX1)                                     | ppm    | 0.21160    | 0.23233     | <b>PASS</b> |      |
| Reading Frequency (TX2)                                       | MHz    |            |             |             |      |
| Frequency Tolerance (TX2)                                     | ppm    |            |             |             |      |
| Reading Frequency (TX3)                                       | MHz    |            |             |             |      |
| Frequency Tolerance (TX3)                                     | ppm    |            |             |             |      |
| Occupied Bandwidth (TX1)                                      | MHz    | 17.04      | 17.04       | <b>PASS</b> |      |
| Occupied Bandwidth (TX2)                                      | MHz    |            |             |             |      |
| Occupied Bandwidth (TX3)                                      | MHz    |            |             |             |      |
| RF Output Power (TX 1)  | mW/MHz | 0.812      | 0.845       | <Reference> |      |
| RF Output Power (TX 2)  | mW/MHz |            |             |             |      |
| RF Output Power (TX 3)  | mW/MHz |            |             |             |      |
| RF Output Power<br>(TX1) or (TX 1+2) or (TX 1+2+3)            | mW/MHz | 0.812      | 0.845       | <Reference> |      |
| RF Output Power Tolerance<br>(TX 1) or (TX 1+2) or (TX 1+2+3) | %      | -32.30     | -29.59      | <b>PASS</b> |      |
| Real Total Output Power (TX 1)                                | dBm    | 10.103     | 10.279      | <Reference> |      |
| Real Total Output Power (TX 2)                                | dBm    |            |             |             |      |
| Real Total Output Power (TX 3)                                | dBm    |            |             |             |      |
| Real Total Output Power<br>(TX 1) or (TX 1+2) or (TX 1+2+3)   | dBm    | 10.103     | 10.279      | <Reference> |      |

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**2.1. TEST Results (W53)**

| Measurement Frequency                                      | MHz  | 5260      | 5320      | Result    | Note        |             |
|--|--|-----------|-----------|-----------|-------------|-------------|
| Channel Number   | Ch.  | 52        | 64        | -----     |             |             |
| Unwanted Emission Strength (TX 1)                          | Under 5135MHz  | μW/MHz    | 0.0133    | 0.0034    | <b>PASS</b> |             |
|  |  | MHz       | 5134.7940 | 5087.0020 | -----       |             |
|  | 5365MHz - 26GHz  | μW/MHz    | 0.0308    | 0.0310    | <b>PASS</b> |             |
|  |  | MHz       | 5379.8680 | 5399.6920 | -----       |             |
| Unwanted Emission Strength (TX 2)                          | Under 5135MHz  | μW/MHz    |           |           |             |             |
|  |  | MHz       |           |           |             |             |
|  | 5365MHz - 26GHz  | μW/MHz    |           |           |             |             |
|  |  | MHz       |           |           |             |             |
| Unwanted Emission Strength (TX 3)                          | Under 5135MHz  | μW/MHz    |           |           |             |             |
|  |  | MHz       |           |           |             |             |
|  | 5365MHz - 26GHz  | μW/MHz    |           |           |             |             |
|  |  | MHz       |           |           |             |             |
| Unwanted Emission Strength (TX1) or (TX 1+2) or (TX 1+2+3) | Under 5135MHz  | μW/MHz    | 0.0133    | 0.0034    | <b>PASS</b> |             |
|  |  | MHz       | 1TX       | 1TX       | -----       |             |
|  | 5365MHz - 26GHz  | μW/MHz    | 0.0308    | 0.0310    | <b>PASS</b> |             |
|  |  | MHz       | 1TX       | 1TX       | -----       |             |
|  | It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency. |           |           |           |             |             |
|  | Adjacent Channel Leakage Power (TX1)   | CF -40MHz | dB        | -56.64    | -56.40      | <b>PASS</b> |
| CF -20MHz  |  | dB        | -37.64    | -37.62    | <b>PASS</b> |             |
| CF +20MHz  |  | dB        | -38.11    | -38.35    | <b>PASS</b> |             |
| CF +40MHz  |  | dB        | -54.42    | -54.93    | <b>PASS</b> |             |
| Adjacent Channel Leakage Power (TX2)                       | CF -40MHz  | dB        |           |           |             |             |
|  | CF -20MHz  | dB        |           |           |             |             |
|  | CF +20MHz  | dB        |           |           |             |             |
|  | CF +40MHz  | dB        |           |           |             |             |
| Adjacent Channel Leakage Power (TX3)                       | CF -40MHz  | dB        |           |           |             |             |
|  | CF -20MHz  | dB        |           |           |             |             |
|  | CF +20MHz  | dB        |           |           |             |             |
|  | CF +40MHz  | dB        |           |           |             |             |

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**2.1. TEST Results (W53)**

| Measurement Frequency         | MHz                           | 5260             | 5320      | Result    | Note        |  |
|-------------------------------|-------------------------------|------------------|-----------|-----------|-------------|--|
| Channel Number                | Ch.                           | 52               | 64        | -----     |             |  |
| Out-Band Leakage Power (TX 1) | 5135 - 5233.3MHz              | μW/MHz           | 0.2420    | 0.0972    | <b>PASS</b> |  |
|                               |                               | MHz              | 5233.0000 | 5200.0278 | -----       |  |
|                               | 5233.3 - 5240MHz              | μW/MHz           | 1.6819    | 0.0907    | <b>PASS</b> |  |
|                               |                               | MHz              | 5239.0384 | 5239.9540 | -----       |  |
|                               | Limit                         | μW/MHz           | 12.1509   | 15.6488   | -----       |  |
|                               | 5240 - 5249MHz                | μW/MHz           | 15.6603   | 0.0859    | <b>PASS</b> |  |
|                               |                               | MHz              | 5248.9920 | 5246.1120 | -----       |  |
|                               | Limit                         | μW/MHz           | 99.8364   | 55.3718   | -----       |  |
|                               | 5249 - 5250MHz                | μW/MHz           | 84.1008   | 0.0291    | <b>PASS</b> |  |
|                               |                               | MHz              | 5249.9920 | 5249.3940 | -----       |  |
|                               | Limit                         | μW/MHz           | 981.7479  | 247.7422  | -----       |  |
|                               | 5350 - 5365MHz                | μW/MHz           | 0.0503    | 0.2202    | <b>PASS</b> |  |
|                               |                               | MHz              | 5360.2020 | 5351.7120 | -----       |  |
|                               | Out-Band Leakage Power (TX 2) | 5135 - 5233.3MHz | μW/MHz    |           |             |  |
| MHz                           |                               |                  |           |           |             |  |
| 5233.3 - 5240MHz              |                               | μW/MHz           |           |           |             |  |
|                               |                               | MHz              |           |           |             |  |
| Limit                         |                               | μW/MHz           |           |           |             |  |
| 5240 - 5249MHz                |                               | μW/MHz           |           |           |             |  |
|                               |                               | MHz              |           |           |             |  |
| Limit                         |                               | μW/MHz           |           |           |             |  |
| 5249 - 5250MHz                |                               | μW/MHz           |           |           |             |  |
|                               |                               | MHz              |           |           |             |  |
| Limit                         |                               | μW/MHz           |           |           |             |  |
| 5350 - 5365MHz                |                               | μW/MHz           |           |           |             |  |
|                               |                               | MHz              |           |           |             |  |

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**2.1. TEST Results (W53)**

| Measurement Frequency  | MHz  | 5260             | 5320     | Result   | Note        |
|--|--|------------------|----------|----------|-------------|
| Channel Number   | Ch.  | 52               | 64       | -----    |             |
| Out-Band Leakage Power (TX 3)  | 5135 - 5233.3MHz                                       | μW/MHz           |          |          |             |
|  |  | MHz              |          |          |             |
|  | 5233.3 - 5240MHz                                       | μW/MHz           |          |          |             |
|  |  | MHz              |          |          |             |
|  | Limit  | μW/MHz           |          |          |             |
|  | 5240 - 5249MHz   | μW/MHz           |          |          |             |
|  |  | MHz              |          |          |             |
|  | Limit  | μW/MHz           |          |          |             |
|  | 5249 - 5250MHz   | μW/MHz           |          |          |             |
|  |  | MHz              |          |          |             |
|  | Limit  | μW/MHz           |          |          |             |
|  | 5350 - 5365MHz   | μW/MHz           |          |          |             |
|  |  | MHz              |          |          |             |
|  | Out-Band Leakage Power (TX1) or (TX 1+2) or (TX 1+2+3) | 5135 - 5233.3MHz | μW/MHz   | 0.2420   | 0.0972      |
| 1TX  |  |                  | 1TX      | -----    |             |
| 5233.3 - 5240MHz   |  | μW/MHz           | 1.6819   | 0.0907   | <b>PASS</b> |
|  |  | 1TX              | 1TX      | -----    |             |
| Limit  |  | μW/MHz           | 12.1509  | 15.6488  | -----       |
| 5240 - 5249MHz   |  | μW/MHz           | 15.6603  | 0.0859   | <b>PASS</b> |
|  |  | 1TX              | 1TX      | -----    |             |
| Limit  |  | μW/MHz           | 99.8364  | 55.3718  | -----       |
| 5249 - 5250MHz   |  | μW/MHz           | 84.1008  | 0.0291   | <b>PASS</b> |
|  |  | 1TX              | 1TX      | -----    |             |
| Limit  |  | μW/MHz           | 981.7479 | 247.7422 | -----       |
| 5350 - 5365MHz   |  | μW/MHz           | 0.0503   | 0.2202   | <b>PASS</b> |
|  |  | 1TX              | 1TX      | -----    |             |
| It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency. |  |                  |          |          |             |

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**2.1. TEST Results (W53)**

| Measurement Frequency   | MHz        | 5260  | 5320       | Result      | Note        |
|---|------------|-------|------------|-------------|-------------|
| Channel Number  | Ch.        | 52    | 64         | -----       |             |
| Secondarily emitted radio wave strength (RX 1)                          | Under 1GHz | nW    | 0.0029     | 0.0027      | <b>PASS</b> |
|   |            | MHz   | 857.2800   | 252.3200    | -----       |
|   | 1 - 26GHz  | nW    | 0.6177     | 0.4569      | <b>PASS</b> |
|   |            | MHz   | 24005.7200 | 24464.7200  | -----       |
| Secondarily emitted radio wave strength (RX 2)                          | Under 1GHz | nW    |            |             |             |
|   |            | MHz   |            |             |             |
|   | 1 - 26GHz  | nW    |            |             |             |
|   |            | MHz   |            |             |             |
| Secondarily emitted radio wave strength (RX 3)                          | Under 1GHz | nW    |            |             |             |
|   |            | MHz   |            |             |             |
|   | 1 - 26GHz  | nW    |            |             |             |
|   |            | MHz   |            |             |             |
| Secondarily emitted radio wave strength (RX1) or (RX 1+2) or (RX 1+2+3) | Under 1GHz | nW    | 0.0029     | 0.0027      | <b>PASS</b> |
|   |            | ----- | -----      | -----       | -----       |
|   | 1 - 26GHz  | nW    | 0.6177     | 0.4569      | <b>PASS</b> |
|   |            | ----- | -----      | -----       | -----       |
| Carrier Sensing Function  | -----      | good  | good       | <b>PASS</b> |             |
| DFS Function  | -----      | ----- | -----      | <b>N/A</b>  |             |
| Burst Length of Transmitted Signals                                     | -----      | good  | good       | <b>PASS</b> |             |
| Interference Prevention Function  | -----      | good  |            | <b>PASS</b> |             |

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### 3. Measurement Equipment List

| Use | Int. No. | Kind of Equipment                   | Model No.         | Manufacturer               | Serial No. | Calibration Authority  | Calibration Date |
|-----|----------|-------------------------------------|-------------------|----------------------------|------------|------------------------|------------------|
| X   | TD10205  | Spectrum Analyzer                   | MS2687B           | Anritsu Corporation        | 6100192047 | Anritsu Corporation    | 2012/5/7         |
|     | TD10261  | Spectrum Analyzer                   | MS2687B           | Anritsu Corporation        | 6200573988 | Anritsu Corporation    | 2012/4/4         |
|     | IS10362  | Spectrum Analyzer                   | MS2692A           | Anritsu Corporation        | 6200675544 | Anritsu Corporation    | 2012/1/16        |
|     | IS10438  | Spectrum Analyzer                   | MS2692A           | Anritsu Corporation        | 6200882959 | Anritsu Corporation    | 2012/7/12        |
|     | TD10150  | Spectrum Analyzer                   | E4408B            | Agilent Technologies       | MY41440467 | Anritsu Corporation    | 2011/11/4        |
| X   | TD10201  | Power Meter                         | ML2438A           | Anritsu Corporation        | 04170011   | Anritsu Corporation    | 2011/11/2        |
|     | TD10283  | Power Meter                         | ML2438A           | Anritsu Corporation        | 6K00005544 | Anritsu Corporation    | 2012/4/4         |
| X   | IS10316  | Thermal Sensor                      | MA24004A          | Anritsu Corporation        | 0917026    | Anritsu Corporation    | 2011/11/2        |
|     | IS10317  | Thermal Sensor                      | MA24004A          | Anritsu Corporation        | 0917057    | Anritsu Corporation    | 2012/4/4         |
| X   | TD10145  | CW Generator                        | MG3692A           | Anritsu Corporation        | 30407      | Anritsu Corporation    | 2012/5/8         |
|     | TD10225  | Vector Signal Generator             | MG3700A           | Anritsu Corporation        | 6200446460 | Anritsu Corporation    | 2012/3/5         |
|     | TD10228  | Anechoic Chamber                    | J-carets2_Chamber | Training Research Co.,LTD. | -----      | DSP Research, Inc.     | 2012/4/17        |
|     | TD10288  | Temperature & Humidity Chamber      | LHU-113           | ESPEC Corp.                | 1012004887 | ESPEC Corp.            | 2012/4/27        |
|     | IS10315  | Vibration Unit                      | 731-B             | EMIC CORPORATION           | 3379       | EMIC CORPORATION       | 2012/2/2         |
|     | TD10260  | W-CDMA Signaling Tester             | MD8480A           | Anritsu Corporation        | 6100137579 | DSP Research, Inc.     | 2012/6/28        |
|     | TD10293  | Universal Radio Comm. Tester        | CMU200            | Rohde & Schwarz            | 112902     | Rohde & Schwarz        | 2012/1/10        |
|     | TD10305  | WiMAX Comm. Tester                  | CMW270            | Rohde & Schwarz            | 100378     | Rohde & Schwarz        | 2012/4/13        |
|     | IS10452  | Wideband Radio Communication Tester | CMW500            | Rohde & Schwarz            | 101183     | Rohde & Schwarz        | 2012/8/28        |
|     | IS10541  | Wideband Radio Communication Tester | CMW500            | Rohde & Schwarz            | 126424     | Rohde & Schwarz        | 2012/7/26        |
|     | IS10458  | Digital Radio Tester for DECT       | CTS60             | Rohde & Schwarz            | 100947     | Rohde & Schwarz        | 2011/10/10       |
|     | IS10374  | Bluetooth Tester                    | MT8852B-042       | Anritsu Corporation        | 1040003    | Anritsu Corporation    | 2011/11/4        |
|     | IS10386  | Signaling Tester                    | MD8470A           | Anritsu Corporation        | 6200893236 | Anritsu Corporation    | 2012/2/8         |
|     | TD10146  | DC Power Supply                     | E3645A            | Agilent Technologies       | MY40000898 | DSP Research, Inc.     | 2012/3/26        |
|     | IS10308  | Dual Output DC Power Supply         | E3648A            | Agilent Technologies       | MY09380004 | DSP Research, Inc.     | 2012/3/26        |
|     | IS10137  | Digital Phosphor Oscilloscope       | TDS3032B          | Tektronix Technology       | B015188    | Anritsu Corporation    | 2011/11/1        |
|     | IS10100  | Digital Storage scope               | DS8706            | IWATSU                     | 81571106   | Anritsu Corporation    | 2011/11/1        |
|     | IS10106  | Level Test Set                      | AE-9311           | ANDO Electric              | 60361609   | FUJITSU FACILITIES Ltd | 2011/10/28       |
|     | IS10108  | Telephone Unit Tester               | AE-9303           | ANDO Electric              | 60419502   | FUJITSU FACILITIES Ltd | 2011/10/28       |
|     | IS10211  | Digital Insulation Tester           | MY40-01           | YOKOGAWA                   | 84NA1249   | Anritsu Corporation    | 2011/11/2        |
|     | IS10115  | Level Meter                         | LM312             | Oi Electric                | 100900     | Anritsu Corporation    | 2011/11/1        |
|     | IS10212  | Network/Spectrum Analyzer           | MS420B            | Anritsu Corporation        | M27193     | Anritsu Corporation    | 2011/11/9        |
|     | IS10249  | Signaling Tester                    | MD1620C           | Anritsu Corporation        | M83464     | Anritsu Corporation    | 2011/11/4        |
|     | IS10113  | Oscillator                          | AG203D            | KENWOOD                    | 2050006    | Anritsu Corporation    | 2011/11/10       |
|     | IS10071  | ISDN Simulator                      | i6492             | AD System Corporation      | 606575     | DSP Research, Inc.     | 2011/10/6        |
|     | IS10072  | ISDN Simulator                      | J-6004            | AD System Corporation      | 40139      | DSP Research, Inc.     | 2011/10/6        |
|     | IS10004  | ISDN Simulator                      | J-9124AM          | AD System Corporation      | 709546     | DSP Research, Inc.     | 2011/10/6        |
|     | TD10226  | 802.11MON                           | DFS_Monitor1      | DSP Research, Inc.         | -----      | DSP Research, Inc.     | 2011/10/6        |
|     | IS10170  | SIP Protocol Monitor                | CX750A            | DSP Research, Inc.         | -----      | DSP Research, Inc.     | 2012/2/27        |
|     | IS10069  | ISDN Protocol Monitor               | F-2               | AD System Corporation      | IS10069    | DSP Research, Inc.     | 2011/10/6        |
|     | IS10319  | PHS Protocol Analyzer               | PHS35L            | Shibasoku Co.,Ltd.         | 3000027416 | DSP Research, Inc.     | 2011/10/6        |
|     | TD10226  | 802.11MON                           | DFS_Monitor1      | DSP Research, Inc.         | -----      | DSP Research, Inc.     | 2011/10/6        |
|     | TD10227  | ISAC_1_JP                           | DFS_Monitor2      | DSP Research, Inc.         | -----      | DSP Research, Inc.     | 2011/10/6        |

Note : 1. The calibration of measurement equipment is valid for a one year period.  
2. "X" used equipment.

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### 4. About Uncertainty of Measured Value

\*In this test, the influence of an error or uncertainty may be done according to the following factors.

- Bias of a measurement equipment, Change by aging, Attrition, Noise
- Skill and capability of an inspector
- Environment (Temperature, Humidity)
- Dispersion in a EUT (Equipment Under Test)
- Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

| JUDGE | Measured value and Standard limit value |  |
|-------|---|--|
| PASS  | <b>Case1</b><br>                        | *Even if it takes uncertainty into consideration, a standard limit value is fulfilled.   |
|       | <b>Case2</b><br>                        | *Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.  |
| FAIL  | <b>Case3</b><br>                        | *Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration. |
|       | <b>Case4</b><br>                        | *Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.  |

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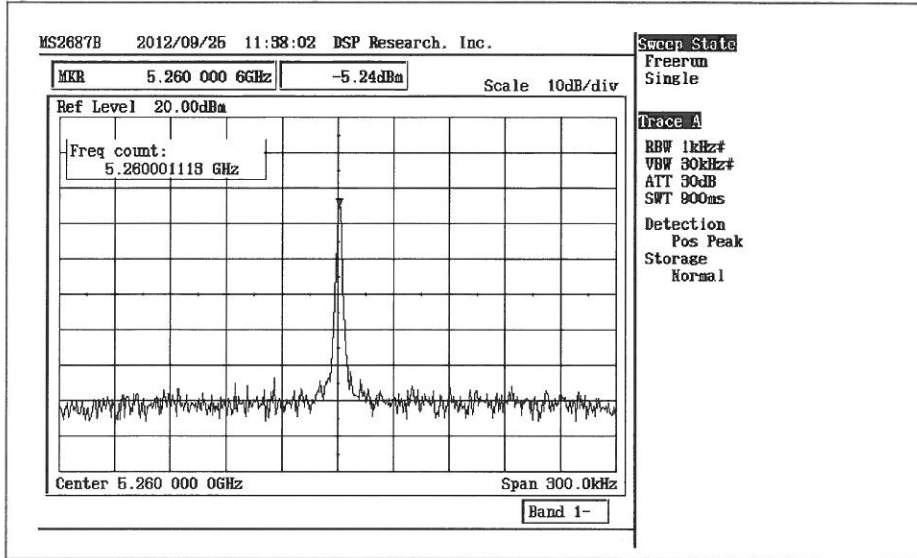
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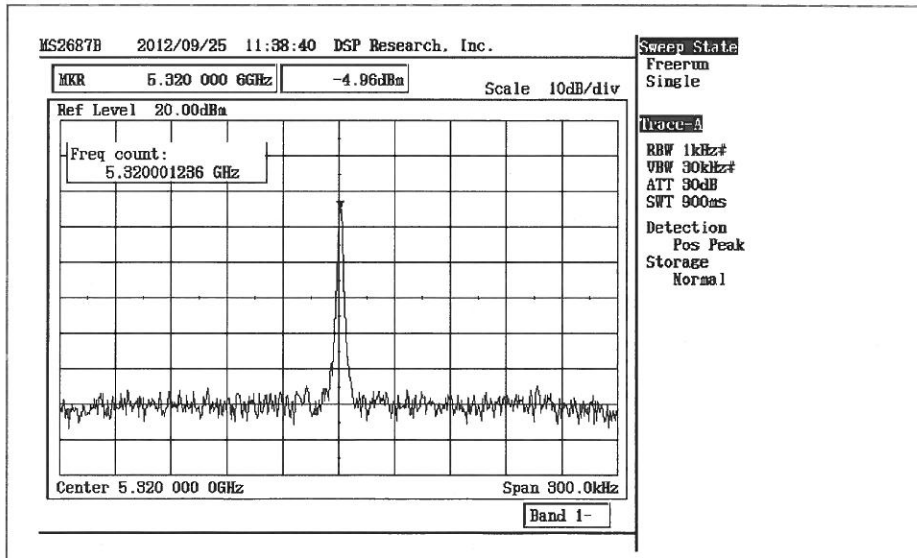
### 5A. < Appendix > Measurement Result

#### 5A.1. Frequency Tolerance

Channel52: 5260MHz TX 1



Channel64: 5320MHz TX 1



***\*Japanese Regulation\****

***\* Frequency Tolerance shall be within ±20ppm.***

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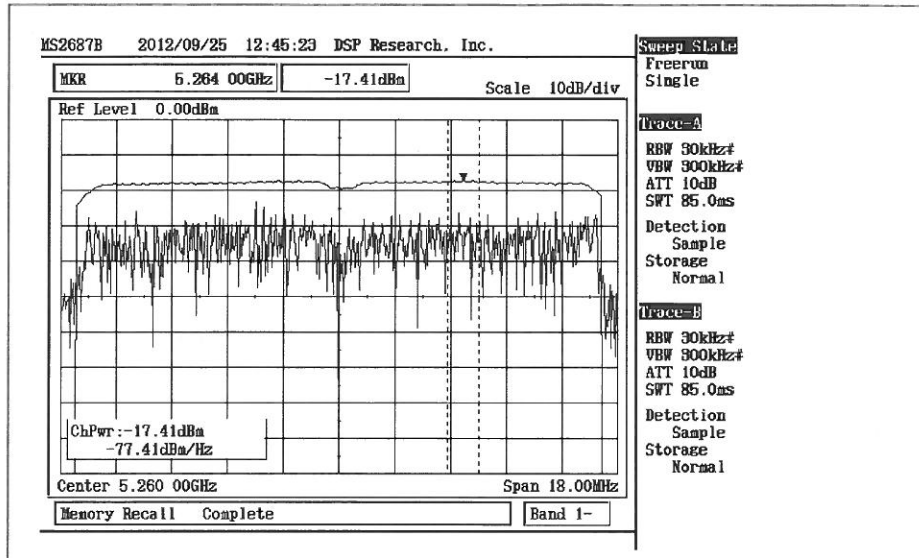
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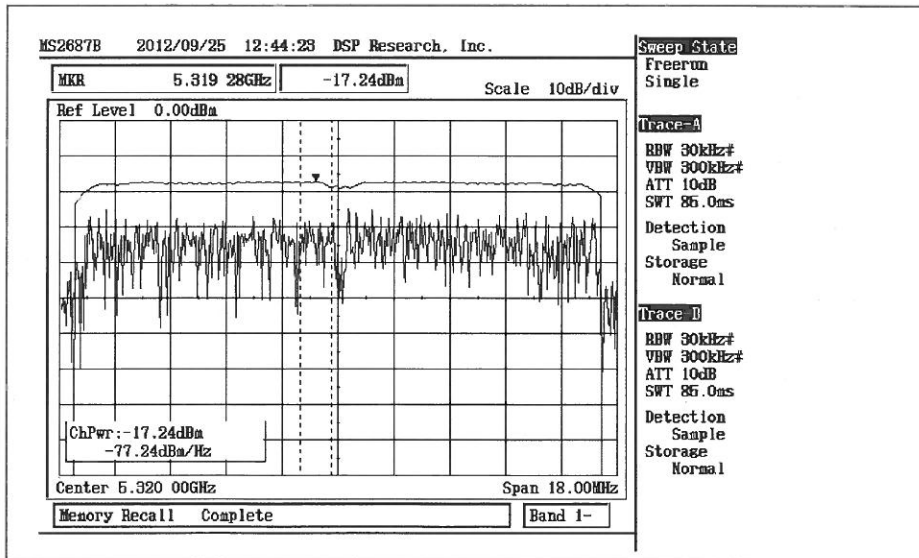


### 5A.3. Transmission Output Power

Channel52: 5260MHz TX 1



Channel64: 5320MHz TX 1



***\*Japanese Regulation\****

- *Output Power shall be 10mW/MHz or less.*
- *Output Power Tolerance shall be range from +20% to -80%.*

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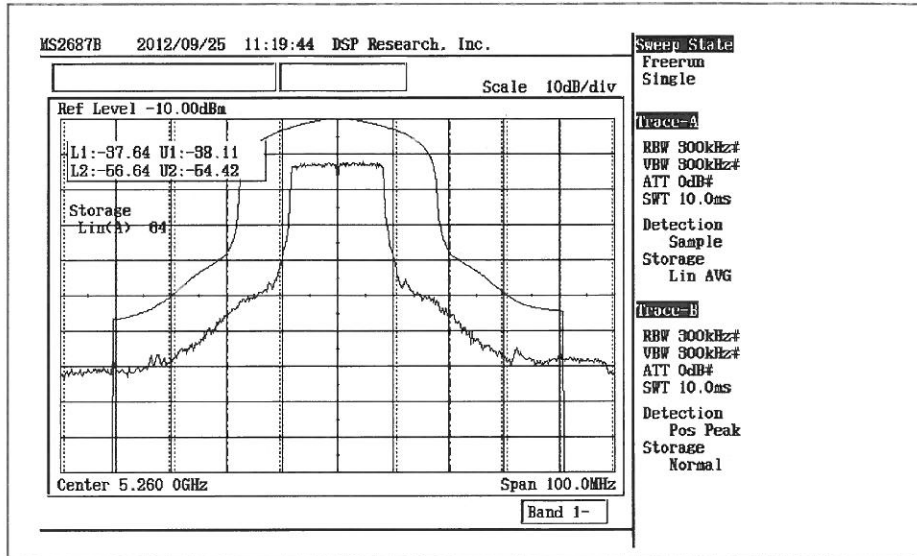
\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

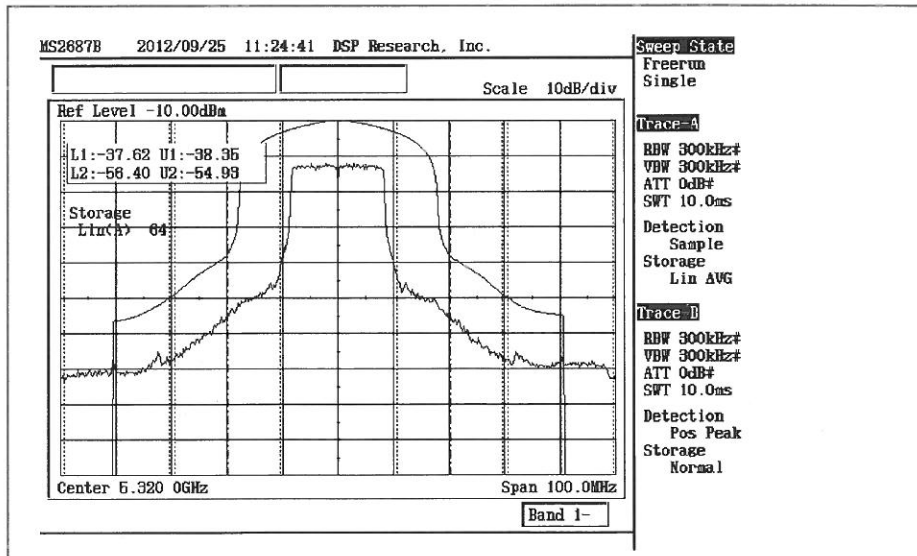
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5A.4. Adjacent Channel Leakage Power

Channel52: 5260MHz TX 1



Channel64: 5320MHz TX 1



***\*Japanese Regulation\****

- *Adjacent Channel Leakage Power ( $\pm 40$ MHz) shall be 40dB or more.*
- *Adjacent Channel Leakage Power ( $\pm 20$ MHz) shall be 25dB or more.*

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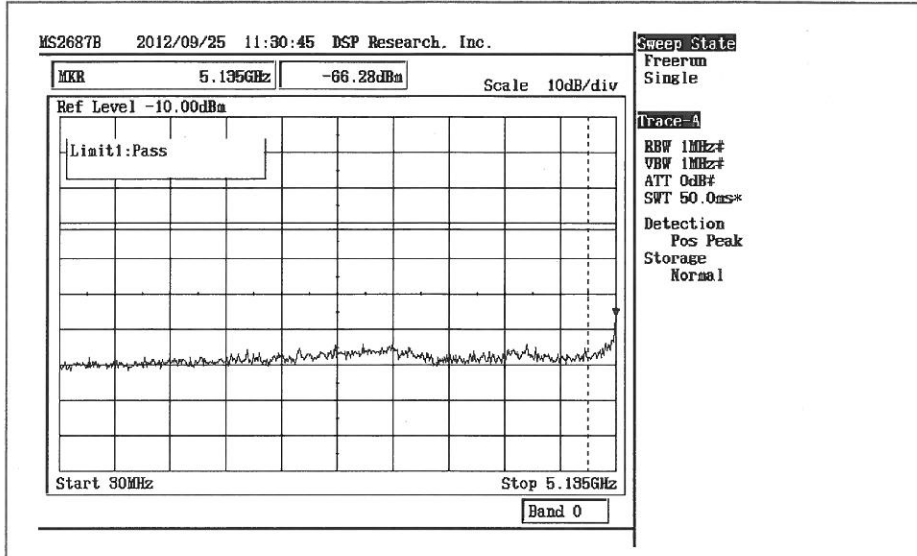
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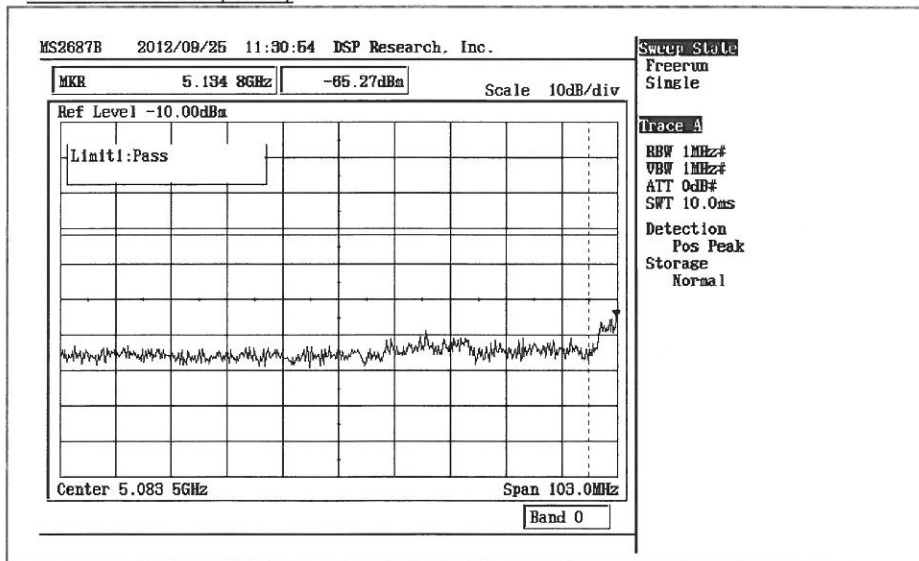
5A.5. Unwanted Emission Strength

Channel52: 5260MHz① TX 1

30MHz-5135MHz (Search)



30MHz-5135MHz (Detail)



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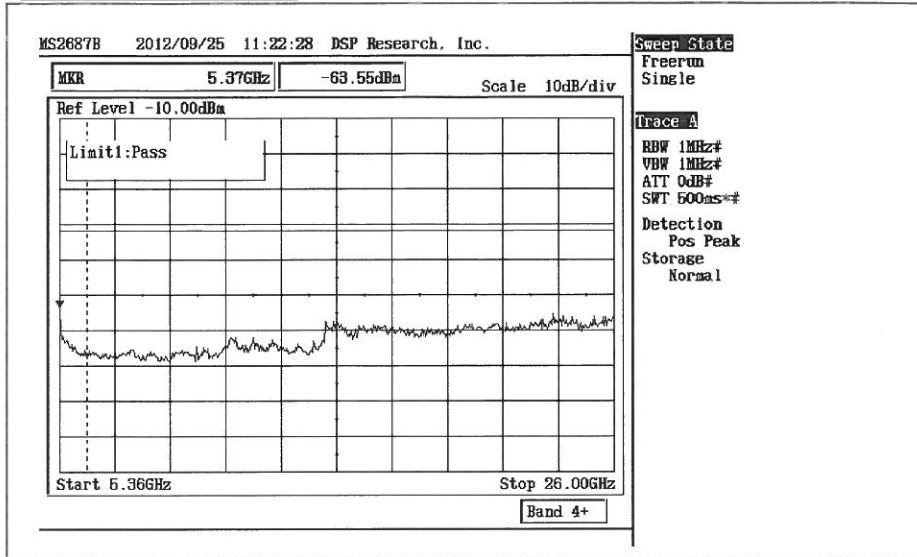
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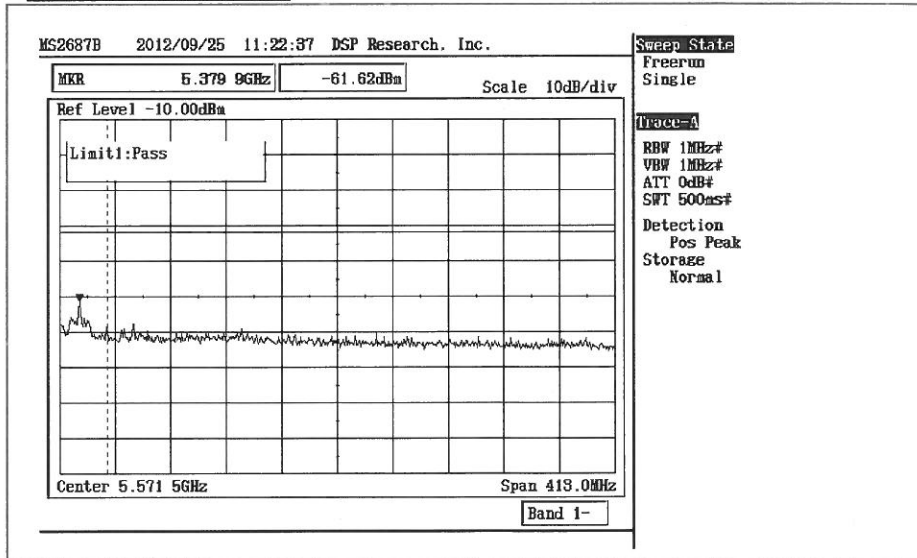
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Channel52: 5260MHz② TX 1

5365MHz-26GHz (Search)



5365MHz-26GHz (Detail)



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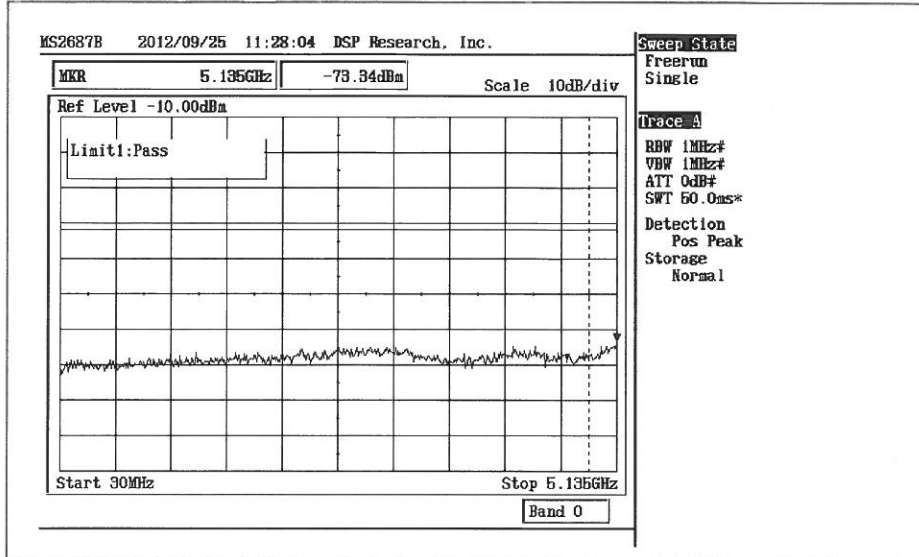
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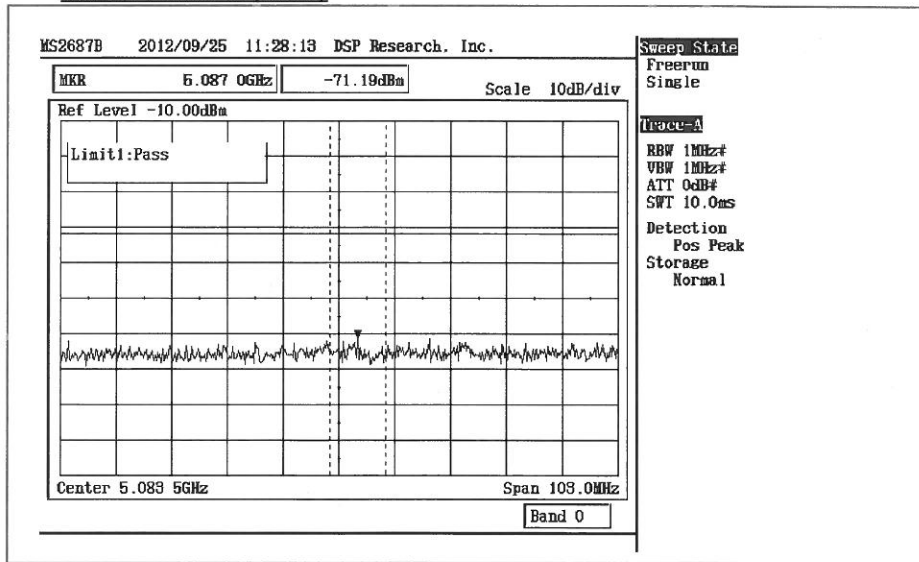


Channel64: 5320MHz① TX 1

30MHz-5135MHz (Search)



30MHz-5135MHz (Detail)



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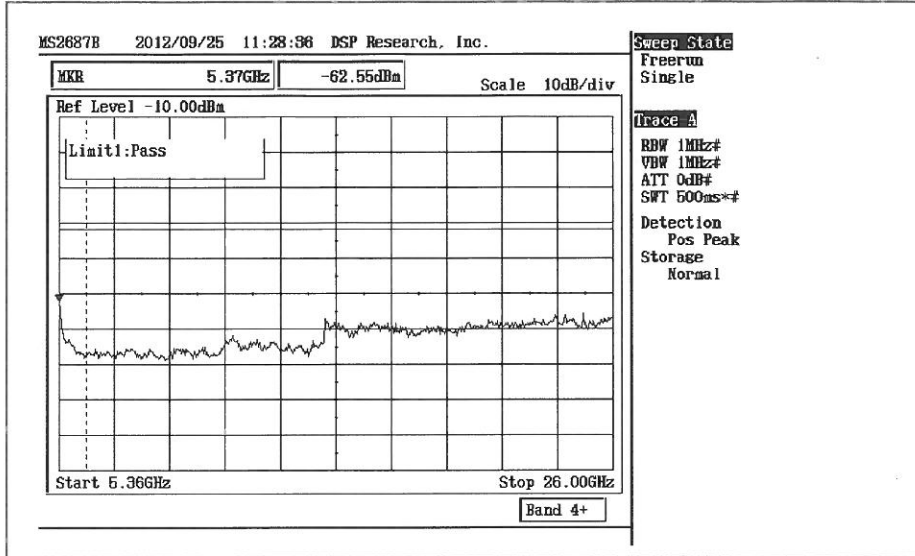
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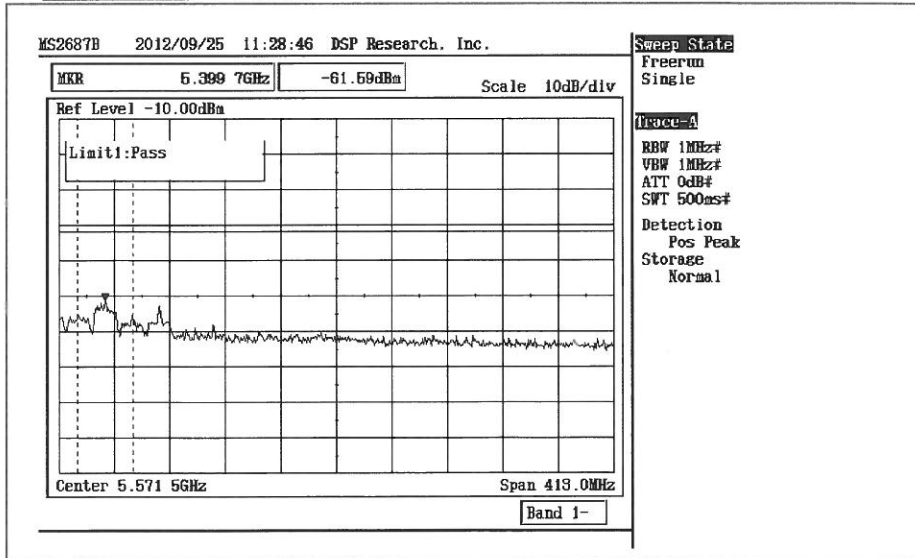
\* Phone: +1-415-563-3777, Fax: +1-415-409-1420

Channel64: 5320MHz② TX 1

5365MHz-26GHz (Search)



5365MHz-26GHz (Detail)



**\*Japanese Regulation\***

- Unwanted Emission Strength shall be 2.5 μW/MHz or less.  
(30MHz - 5135MHz, 5365MHz - 26GHz)

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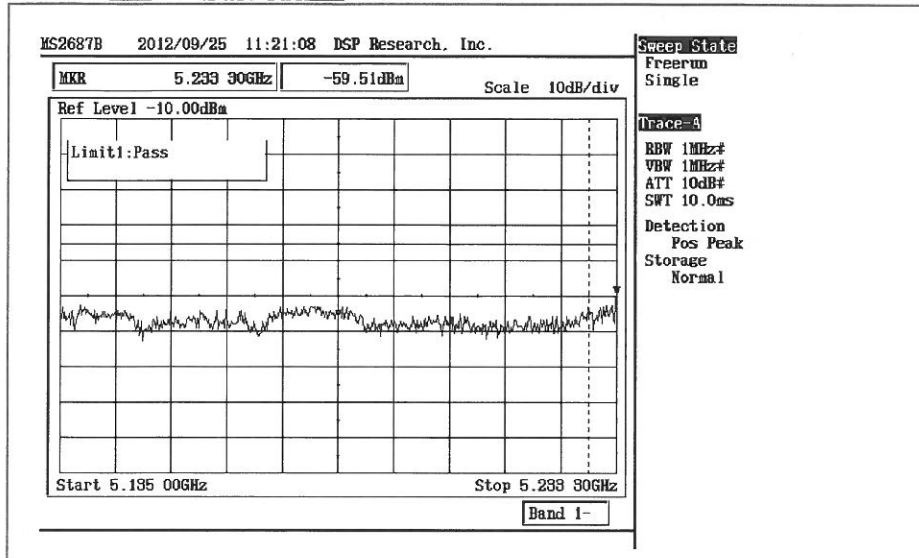
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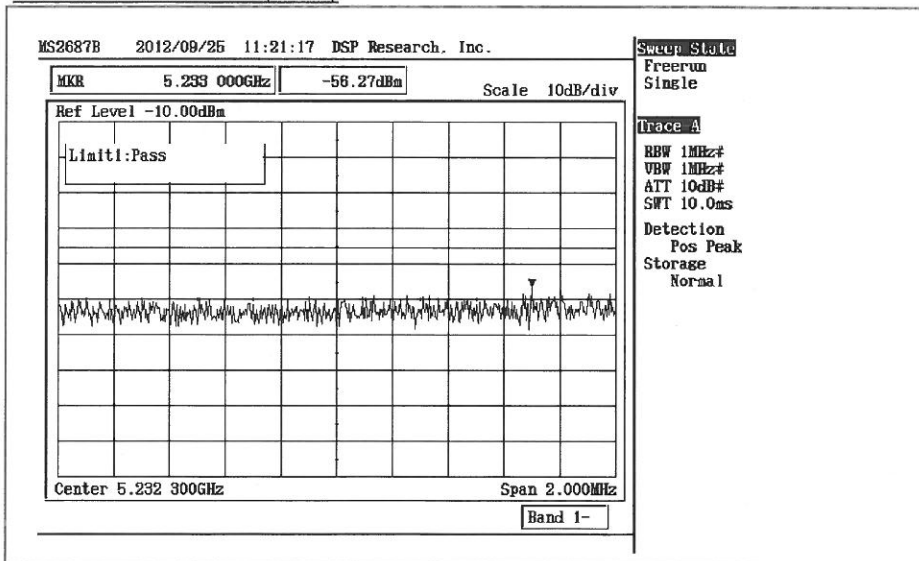
5A.6. Outband Leakage Power

Channel52: 5260MHz① TX 1

5135MHz - 5233.3MHz (Search)



5135MHz - 5233.3MHz (Detail)



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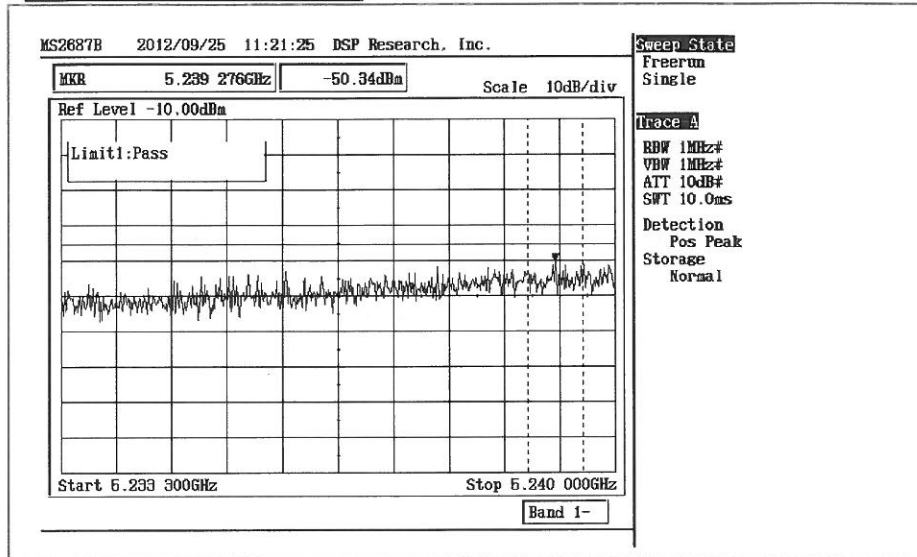
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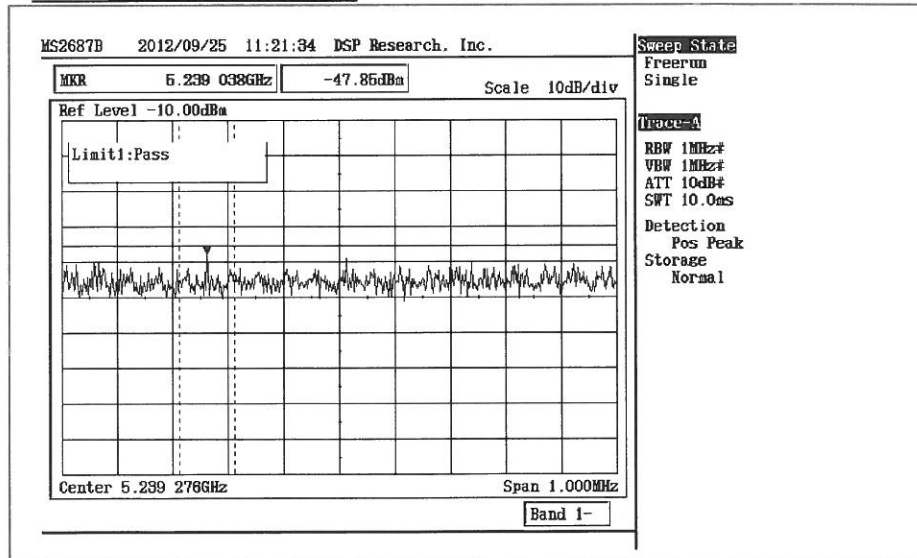
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Channel52: 5260MHz② TX 1

5233.3MHz - 5240MHz (Search)



5233.3MHz - 5240MHz (Detail)



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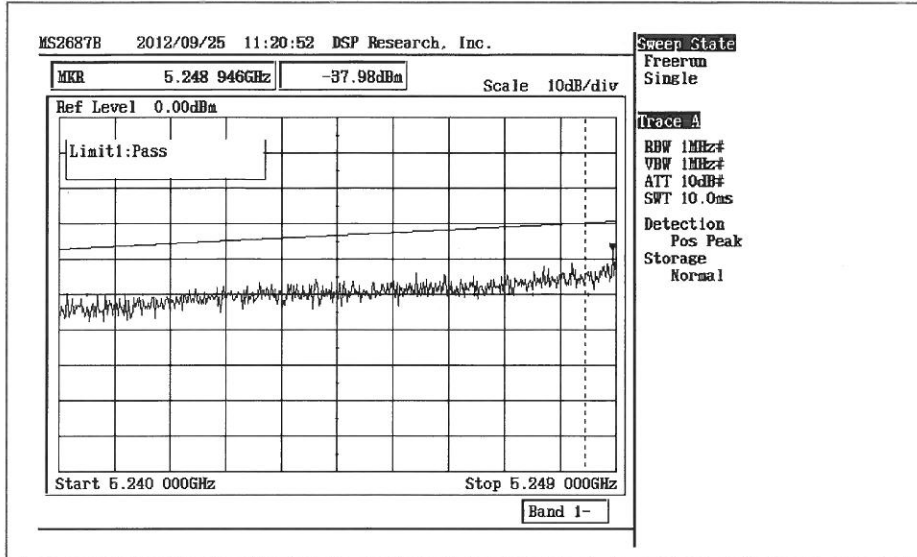
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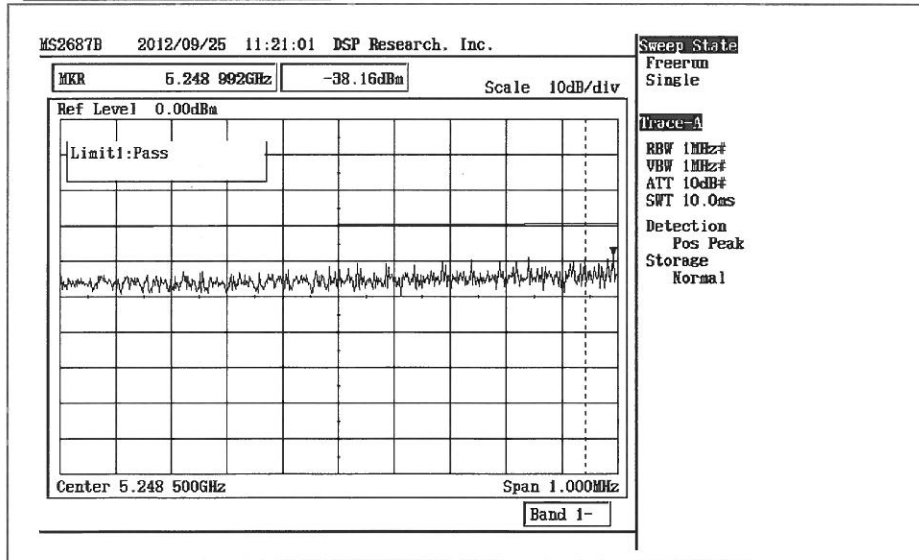
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Channel52: 5260MHz③ TX 1

5240MHz - 5249MHz (Search)



5240MHz - 5249MHz (Detail)



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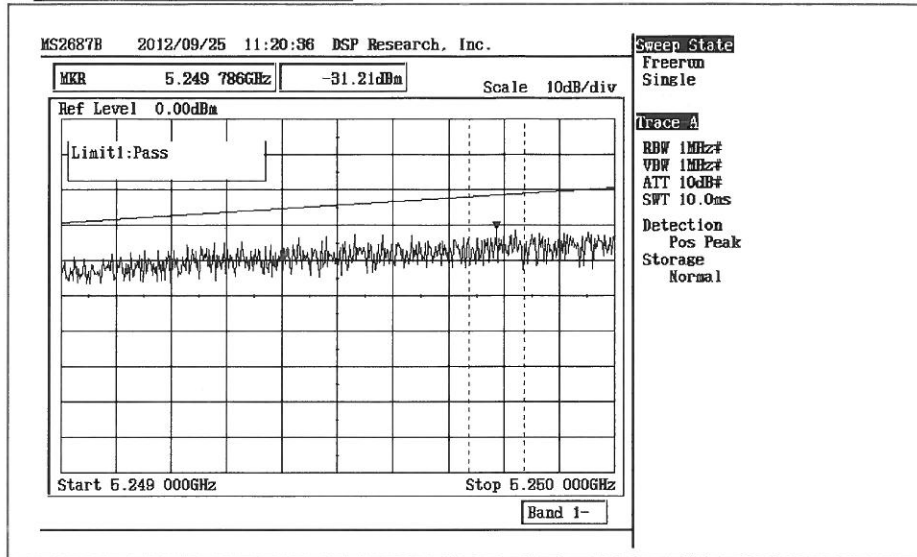
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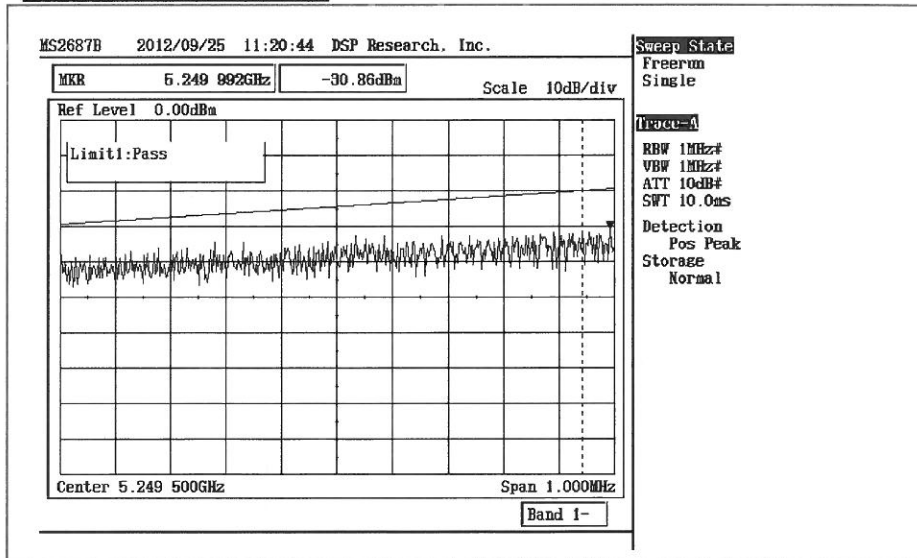
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Channel52: 5260MHz④ TX 1

5249MHz - 5250MHz (Search)



5249MHz - 5250MHz (Detail)



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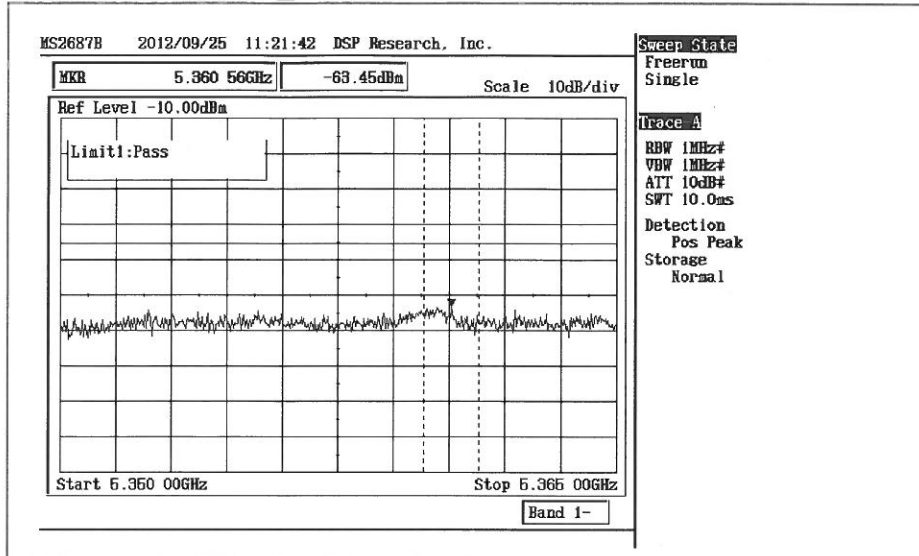
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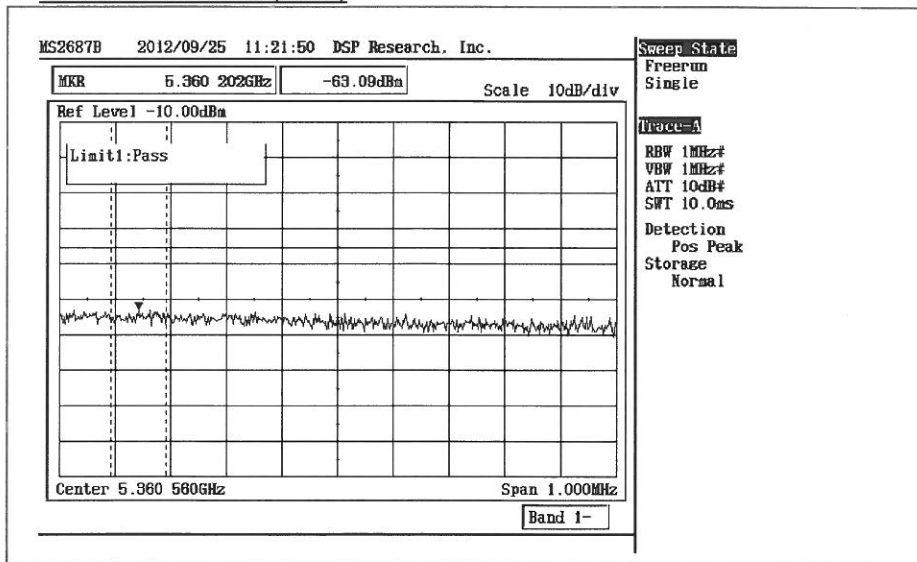
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Channel52: 5260MHz TX 1

5350MHz - 5365MHz (Search)



5350MHz - 5365MHz (Detail)



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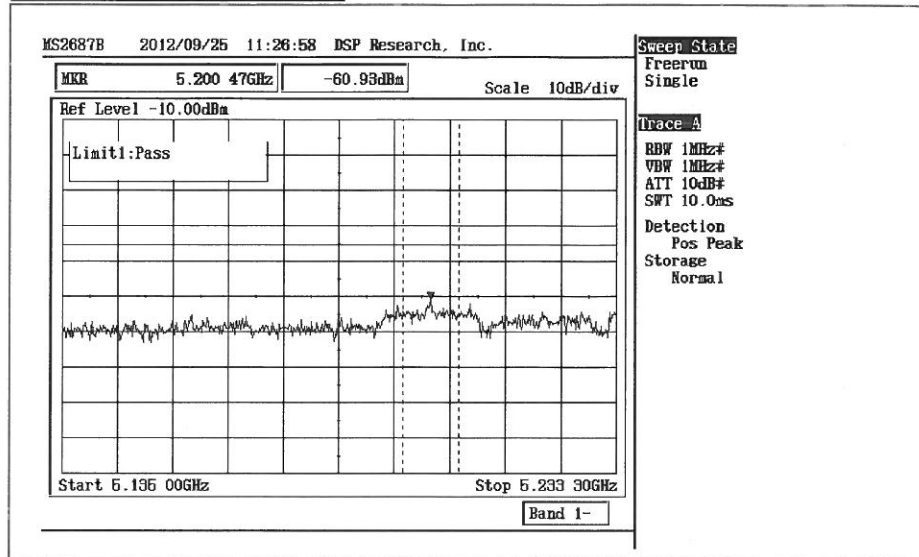
\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

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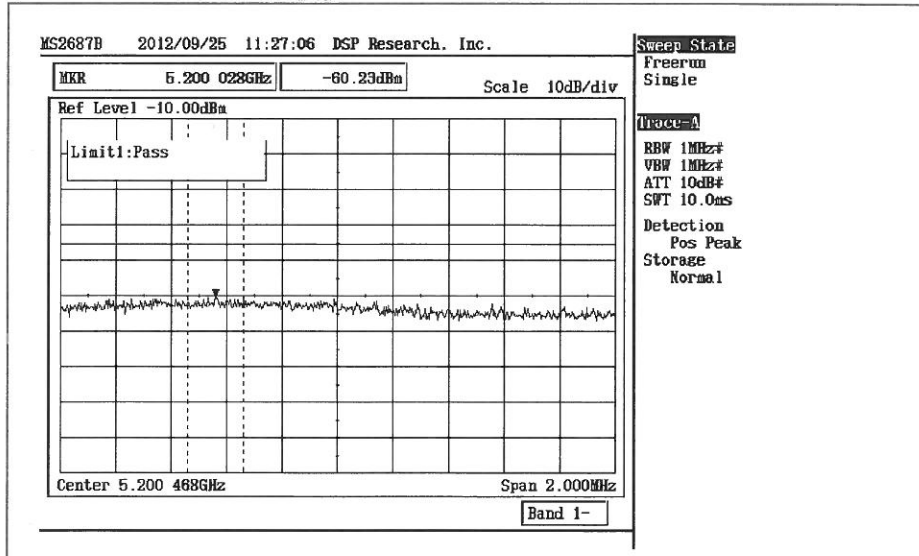
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Channel64: 5320MHz① TX 1

5135MHz - 5233.3MHz (Search)



5135MHz - 5233.3MHz (Detail)



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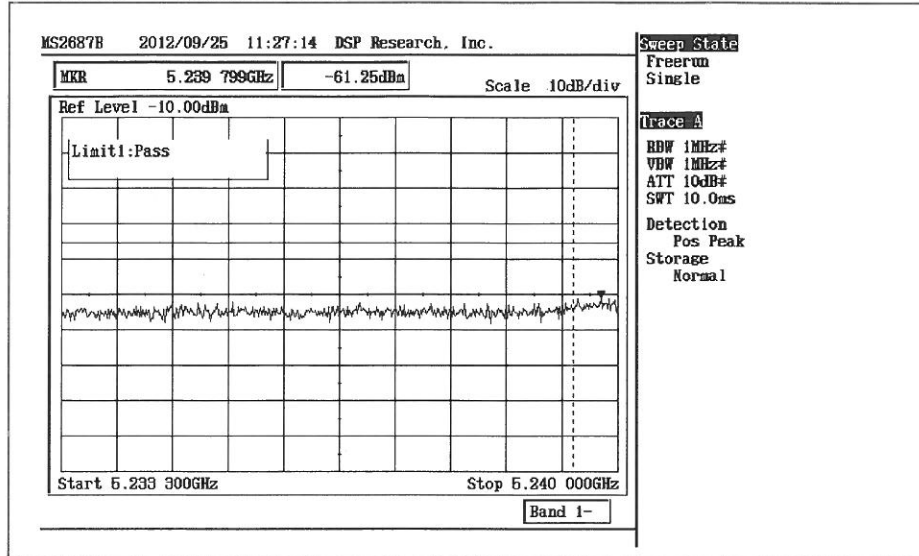
U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

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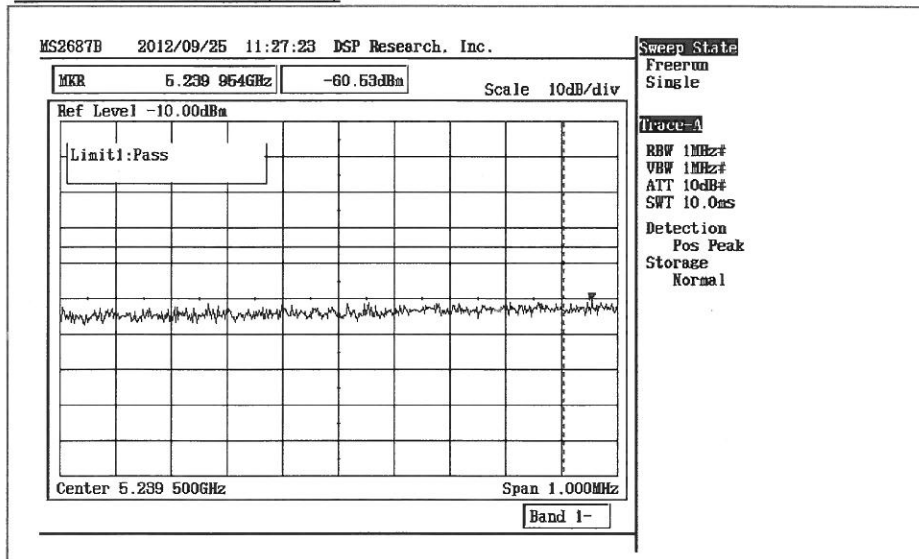


Channel64: 5320MHz② TX 1

5233.3MHz - 5240MHz (Search)



5233.3MHz - 5240MHz (Detail)



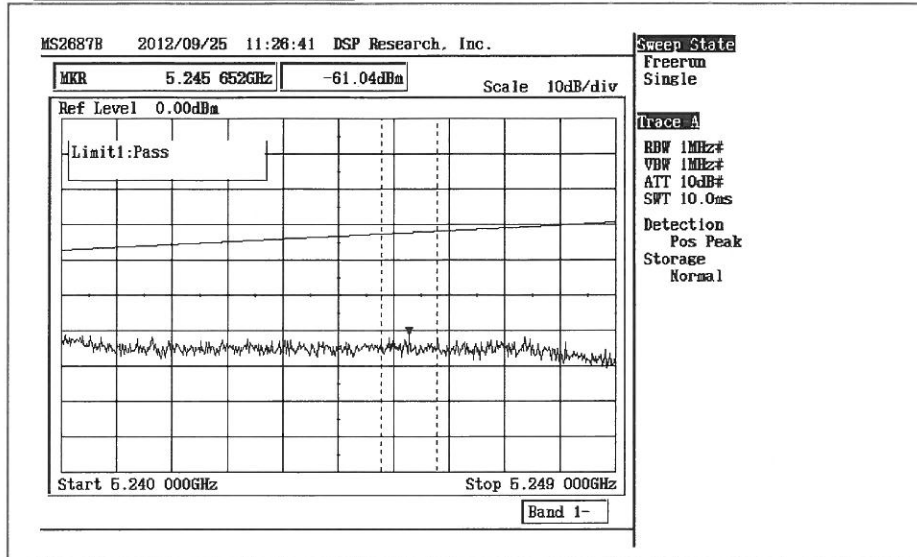
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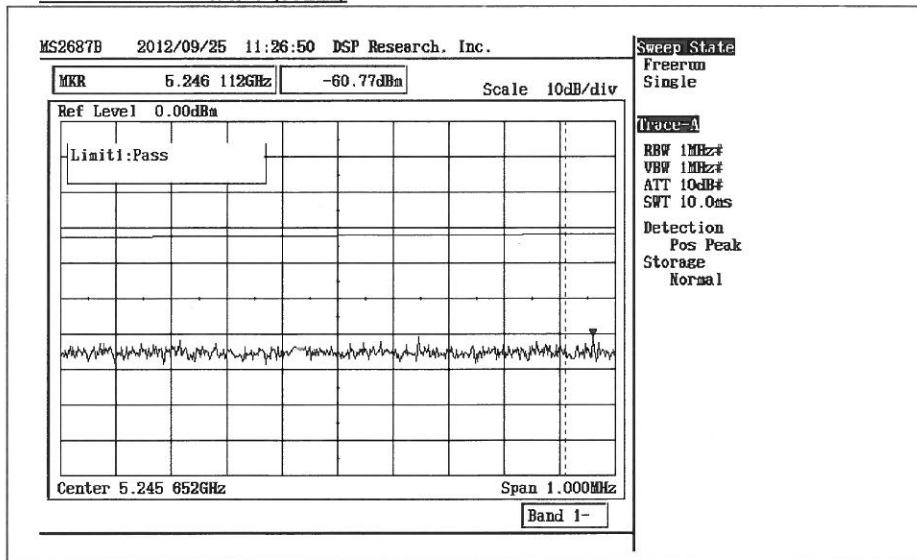
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**Channel64: 5320MHz③ TX 1**

**5240MHz - 5249MHz (Search)**



**5240MHz - 5249MHz (Detail)**



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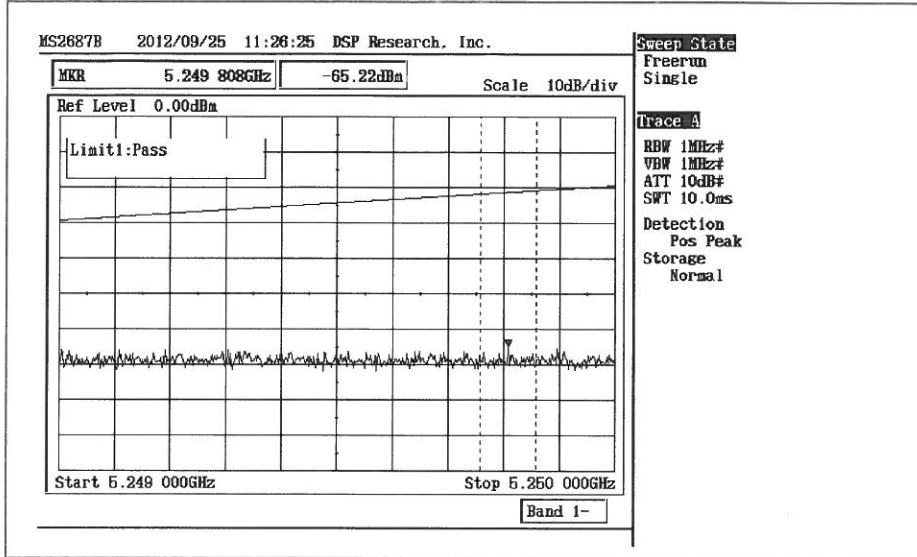
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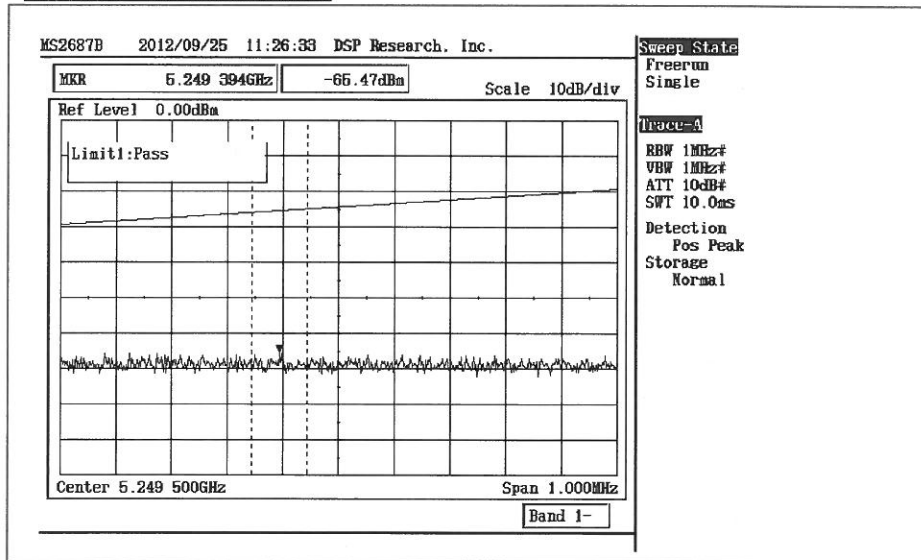
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Channel64: 5320MHz④ TX 1

5249MHz - 5250MHz (Search)



5249MHz - 5250MHz (Detail)



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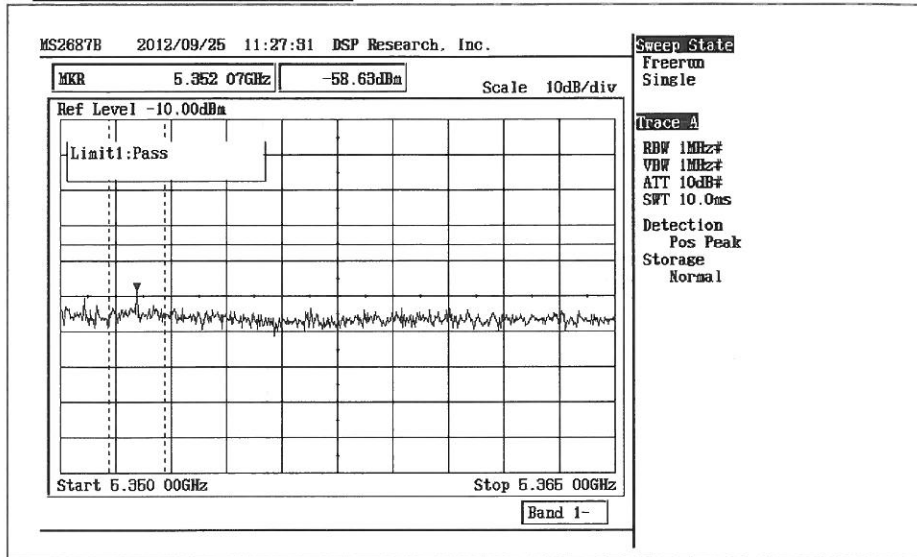
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U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

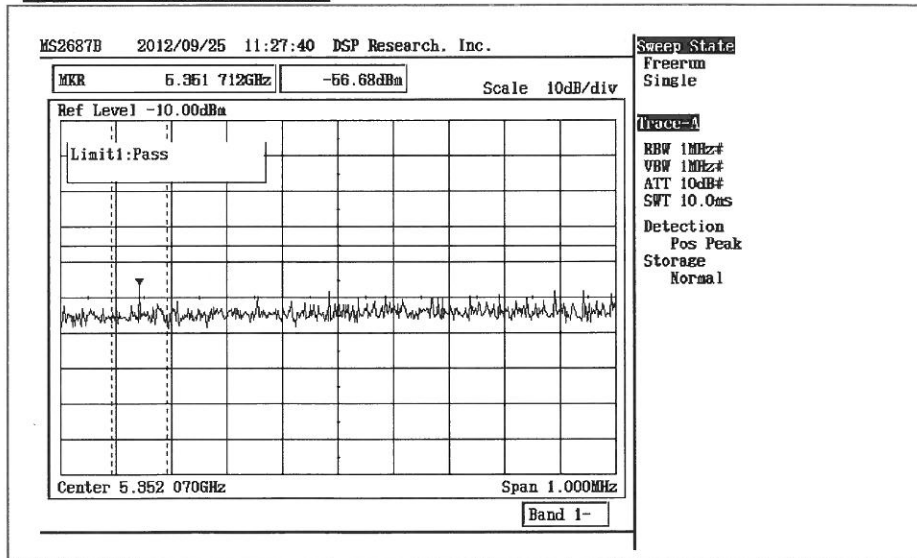
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Channel64: 5320MHz⑤ TX 1

5350MHz - 5365MHz (Search)



5350MHz - 5365MHz (Detail)



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 \* Phone: +1-415-563-3777, Fax: +1-415-409-1420

*\*Japanese Regulation\**

- 5135 – 5233.3MHz --> 2.5  $\mu$  W/MHz or below.
- 5233.3 – 5240MHz --> Min. 2.488  $\mu$  W/MHz or below, Max. 15.848  $\mu$  W/MHz.
- 5240 – 5249MHz --> Min. 15.848  $\mu$  W/MHz or below, Max. 100  $\mu$  W/MHz.
- 5249 – 5250MHz --> Min. 100  $\mu$  W/MHz or below, Max. 1000  $\mu$  W/MHz.
- 5350 – 5365MHz --> 2.5  $\mu$  W/MHz or below.

---

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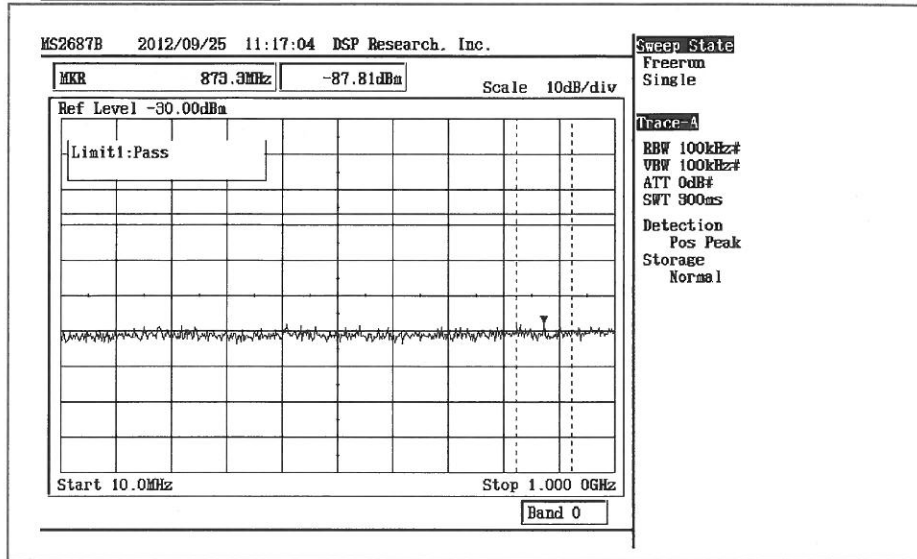
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\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

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\* Phone: +1-415-563-3777, Fax: +1-415-409-1420

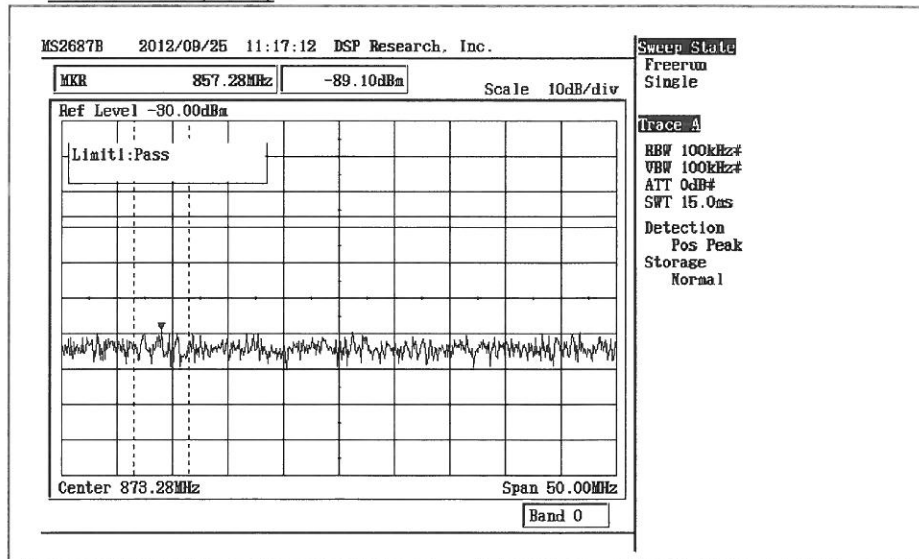
5A.7. Secondarily Emitted Radio Wave Strength

Channel52: 5260MHz RX 1

10MHz-1GHz (Search)



10MHz-1GHz (Detail)



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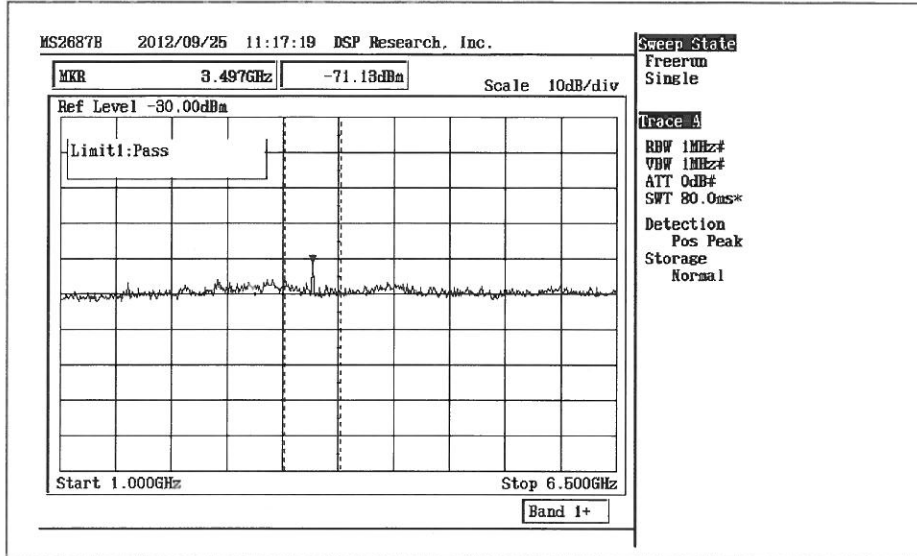
\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

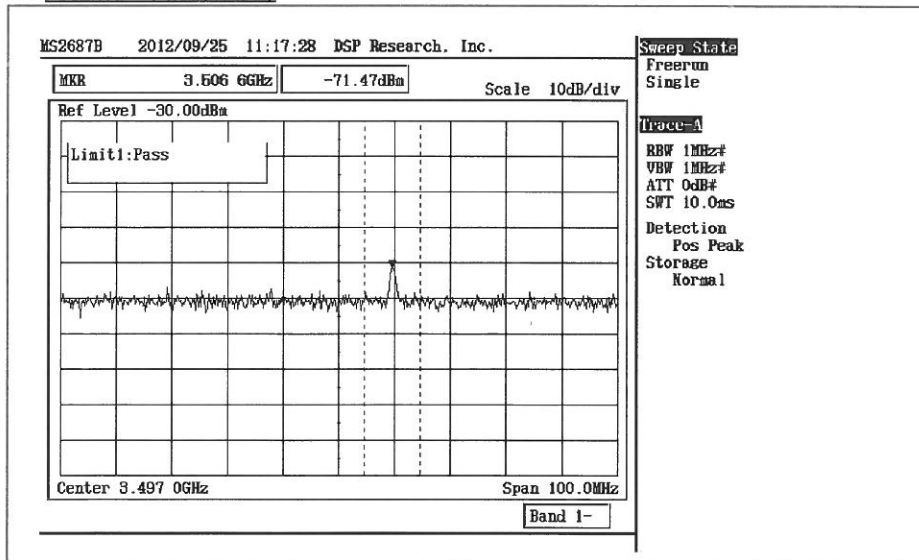
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Channel52: 5260MHz② RX 1

1GHz-6.5GHz (Search)



1GHz-6.5GHz (Detail)



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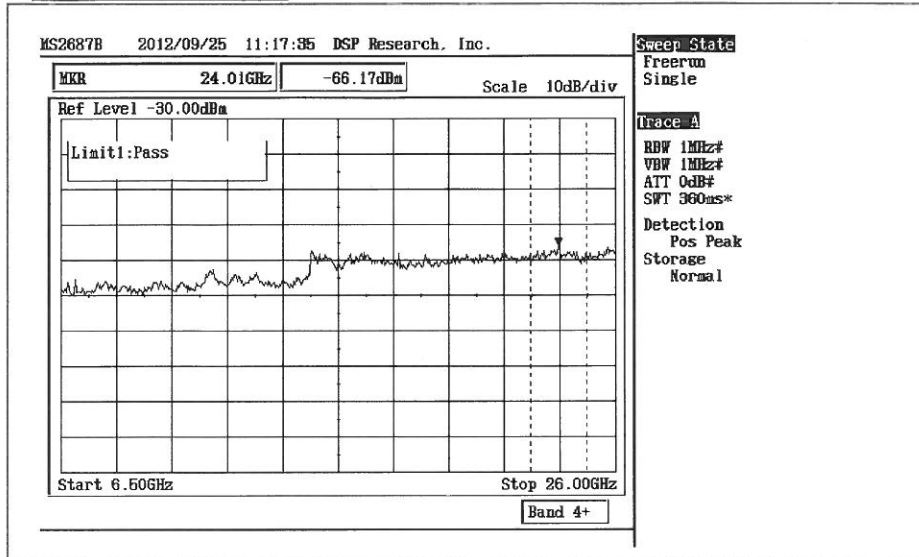
\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

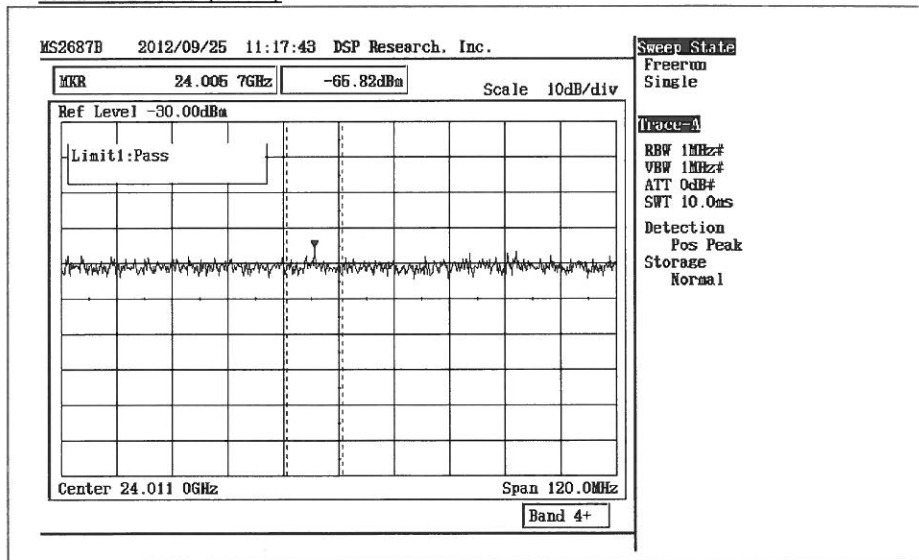
\* Phone: +1-415-563-3777, Fax: +1-415-409-1420

**Channel52: 5260MHz③** RX 1

6.5GHz-26GHz (Search)



6.5GHz-26GHz (Detail)



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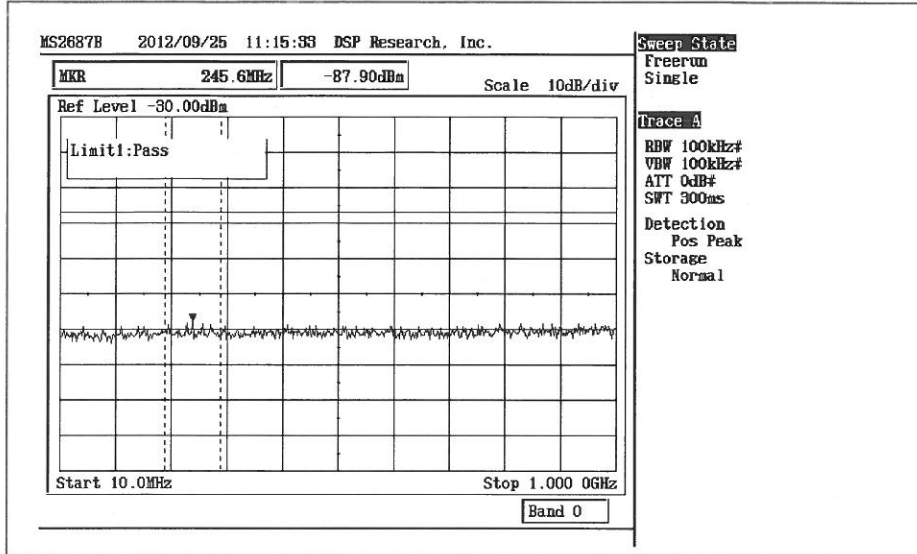
U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

\* Phone: +1-415-563-3777, Fax: +1-415-409-1420

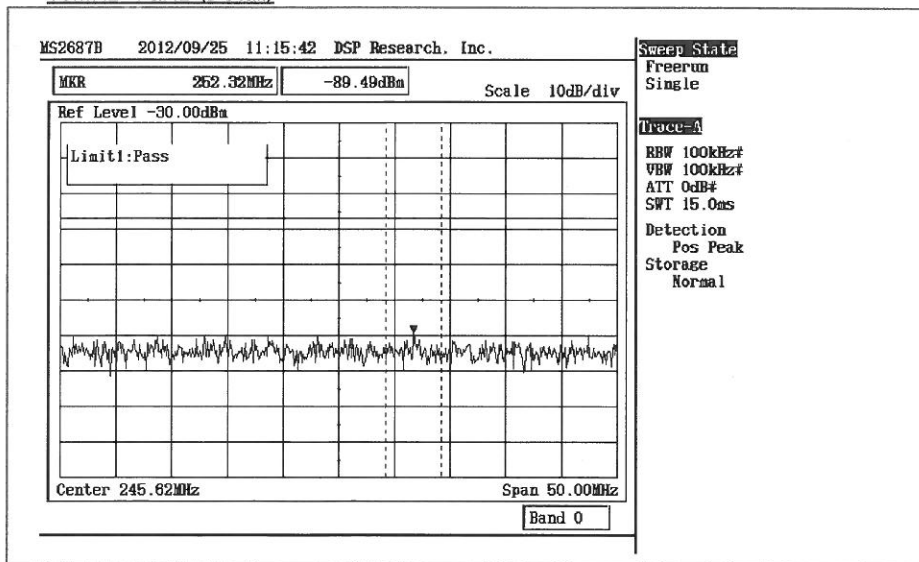


Channel64: 5320MHz① RX 1

10MHz-1GHz (Search)



10MHz-1GHz (Detail)



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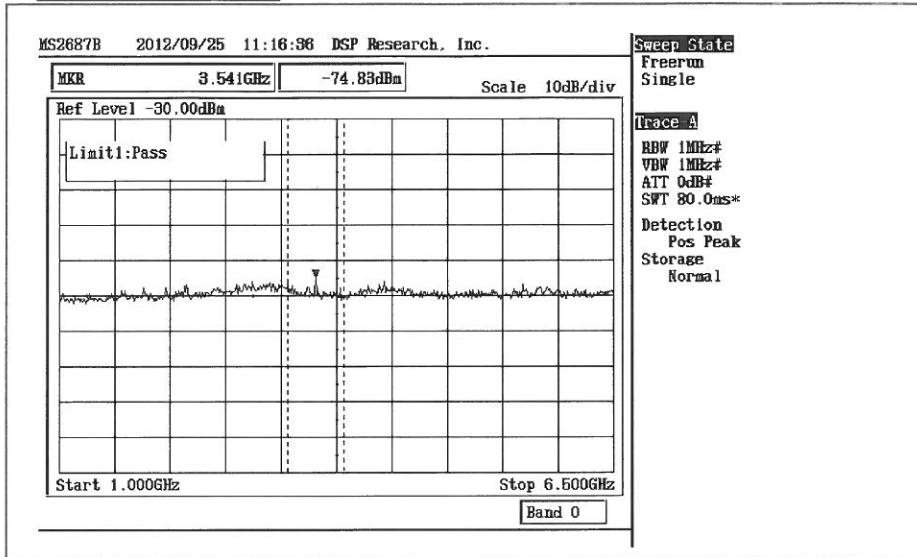
\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

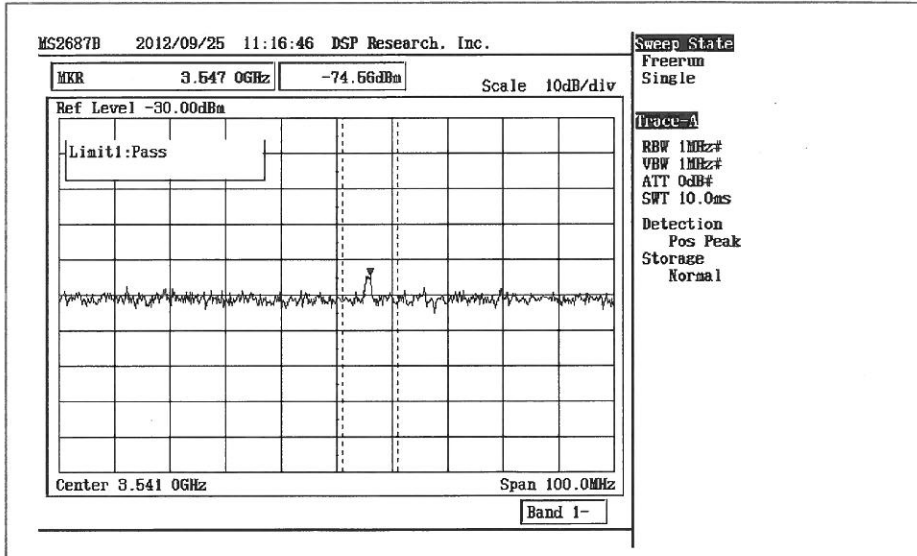
\* Phone: +1-415-563-3777, Fax: +1-415-409-1420

Channel64: 5320MHz② RX 1

1GHz-6.5GHz (Search)



1GHz-6.5GHz (Detail)



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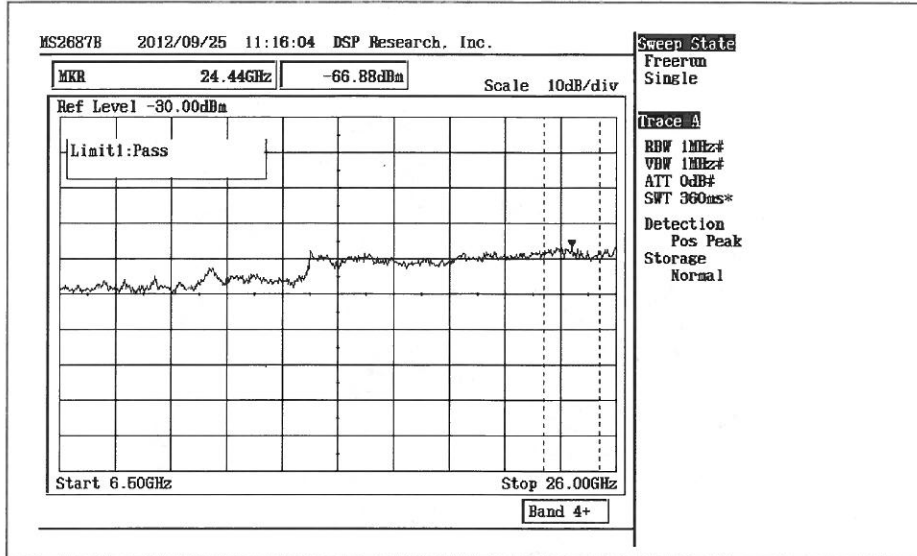
\* Phone: +81-78-940-0377, Fax: +81-78-940-0378

U.S.A. Office: 1388 Sutter Street, Suite 1205, San Francisco, CA 94109, U.S.A.

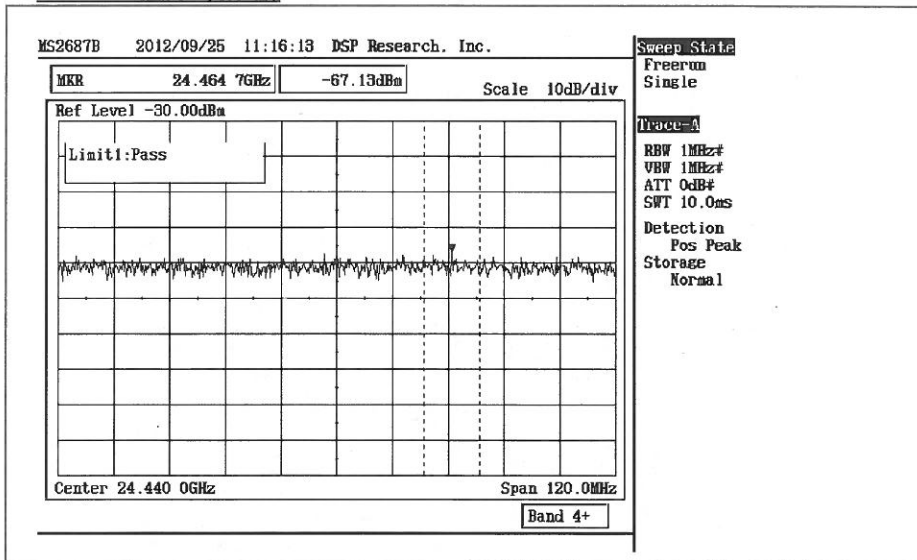
\* Phone: +1-415-563-3777, Fax: +1-415-409-1420

Channel64: 5320MHz③ RX 1

6.5GHz-26GHz (Search)



6.5GHz-26GHz (Detail)



***\*Japanese Regulation\****

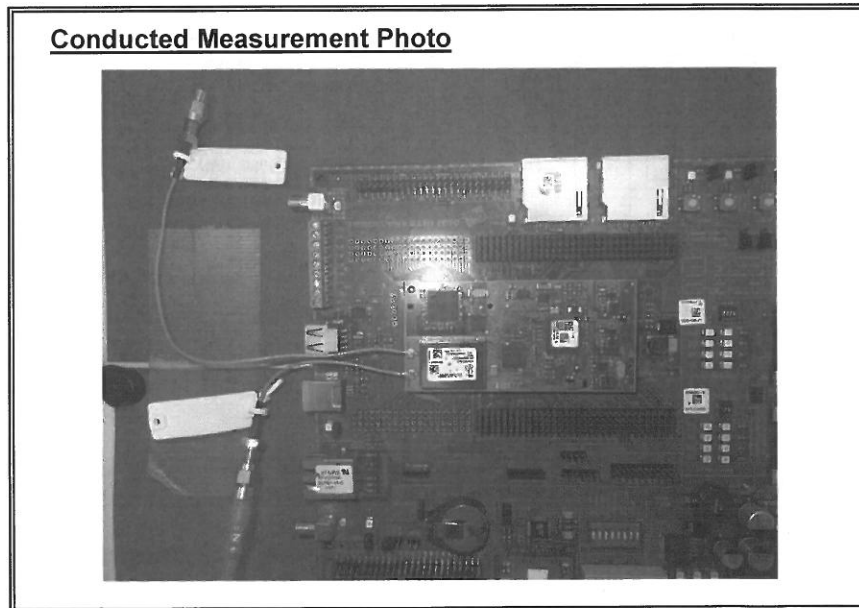
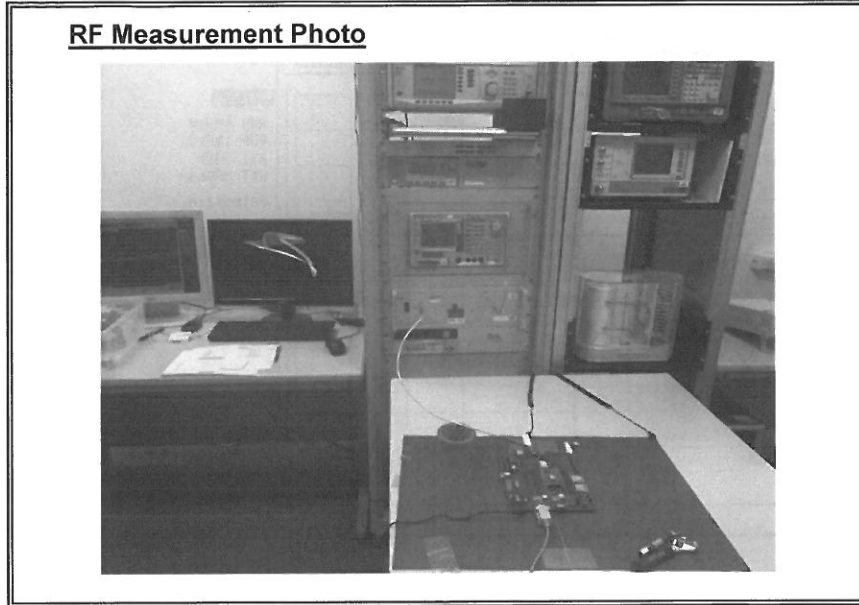
- 1GHz under shall be 4nW or below.
- 1GHz over shall be 20nW or below.

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## 6. PHOTOGRAPHS

### 6.1. Test Conditions Photographs



**End Of Report**

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