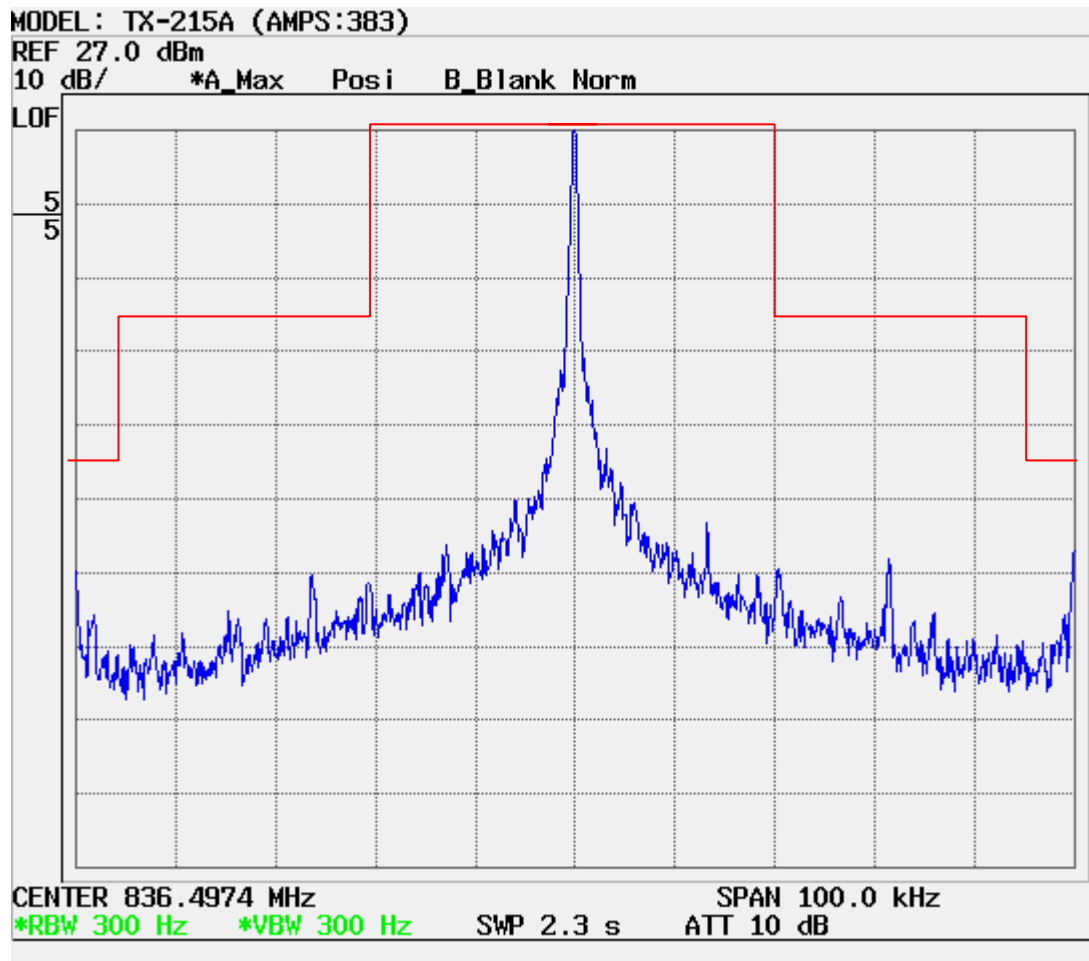
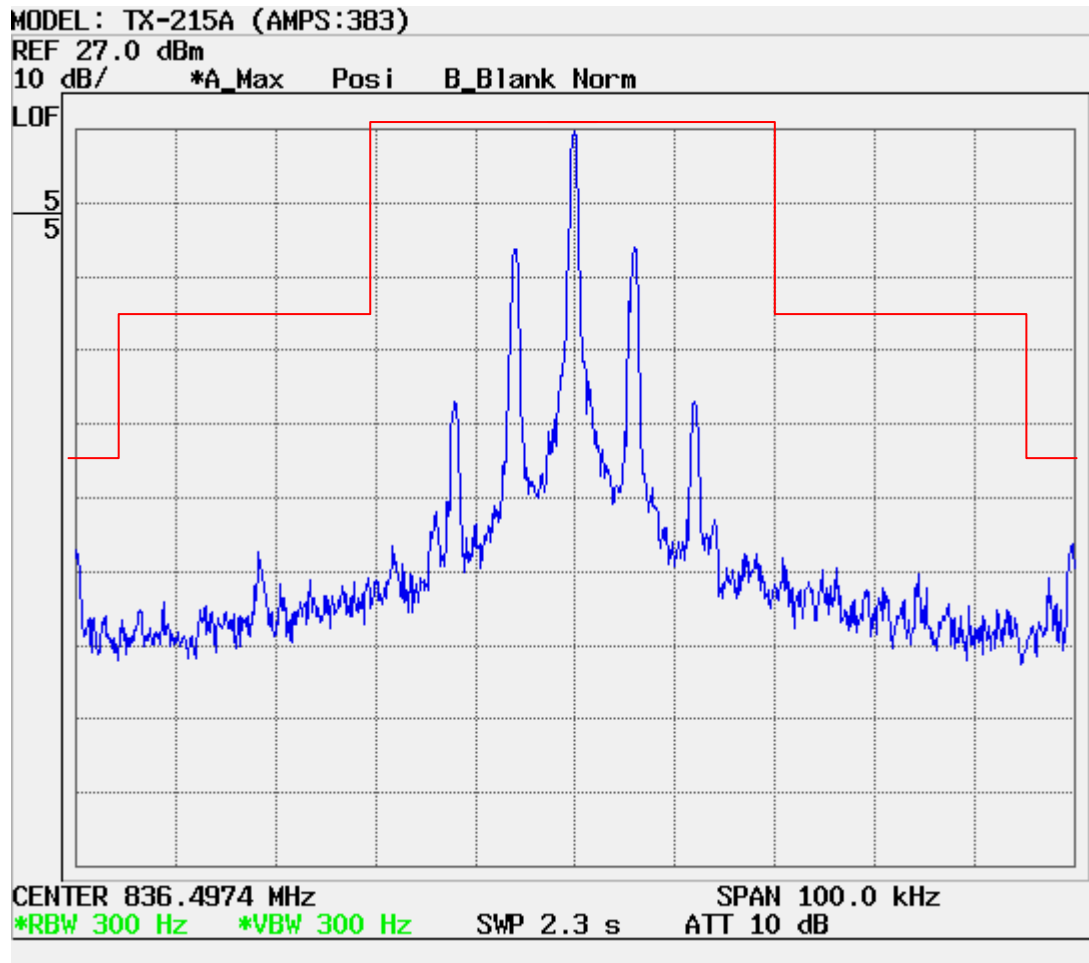


## **ATTACHMENT D – TEST PLOTS**

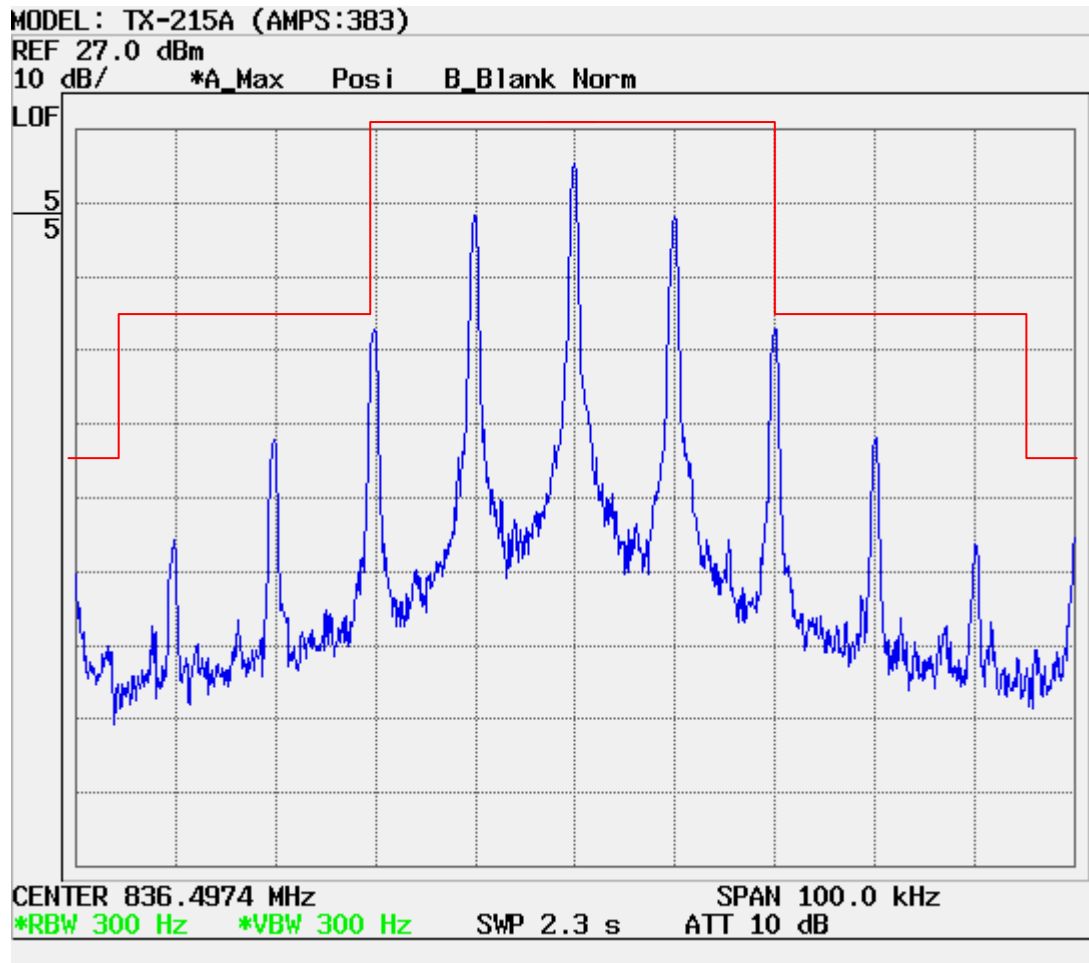
■ AMPS MODE (0383 CH.) Test Mode: Unmodulated Signal



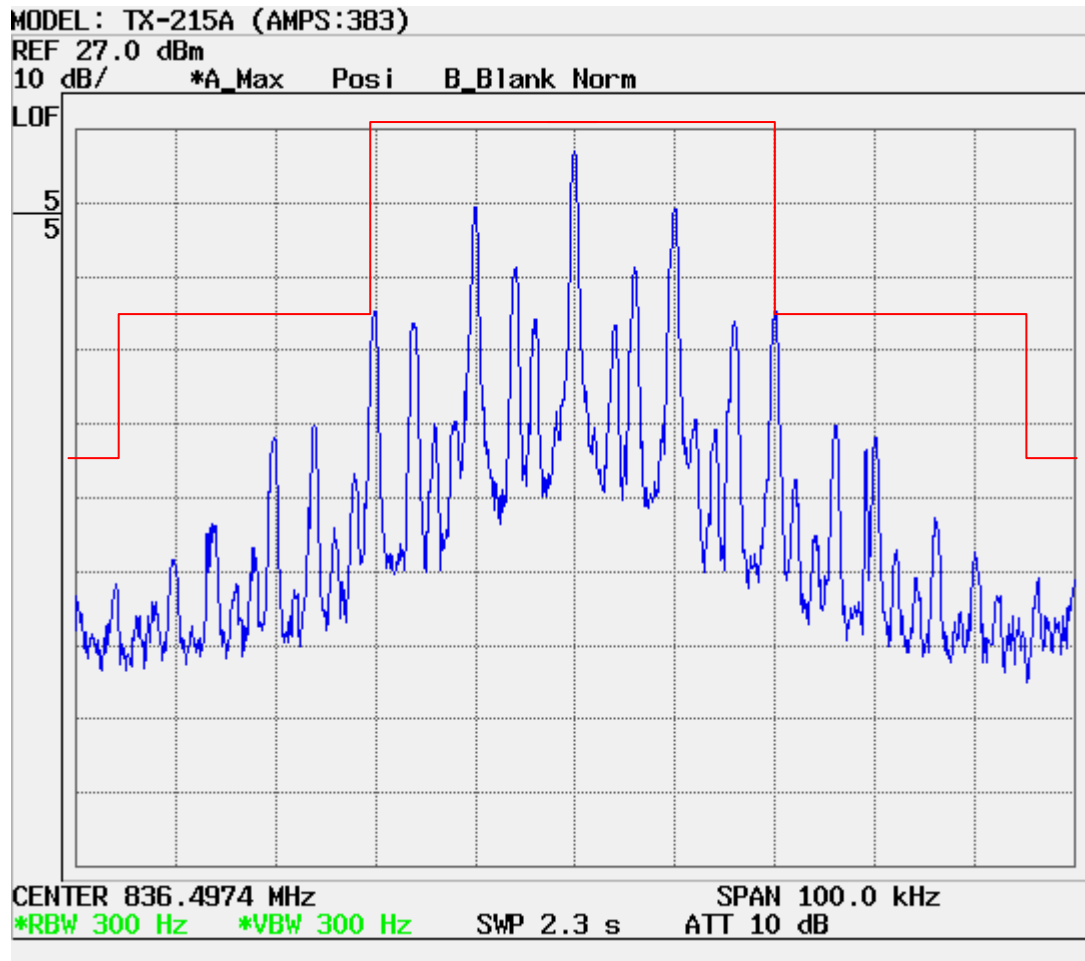
■ **AMPS MODE (0383 CH.) Test Mode: SAT**



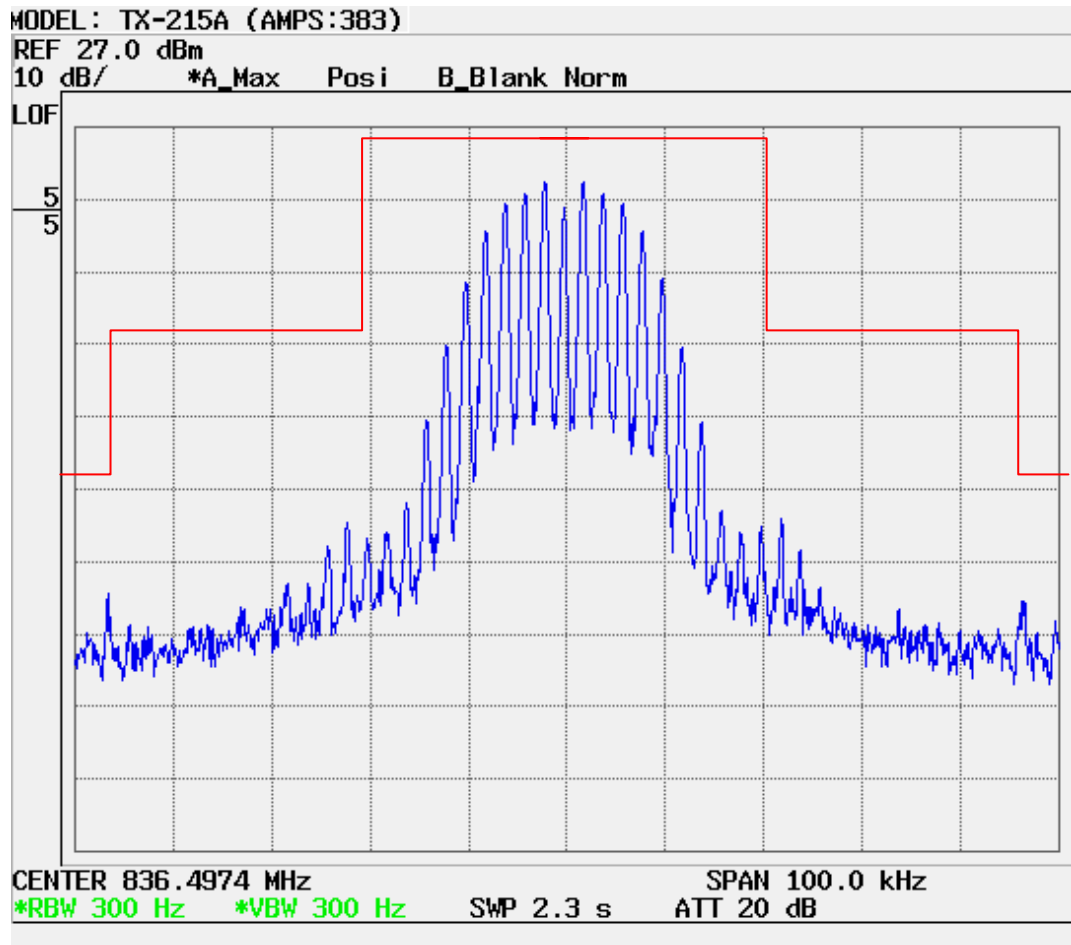
■ AMPS MODE (0383 CH.) Test Mode: ST



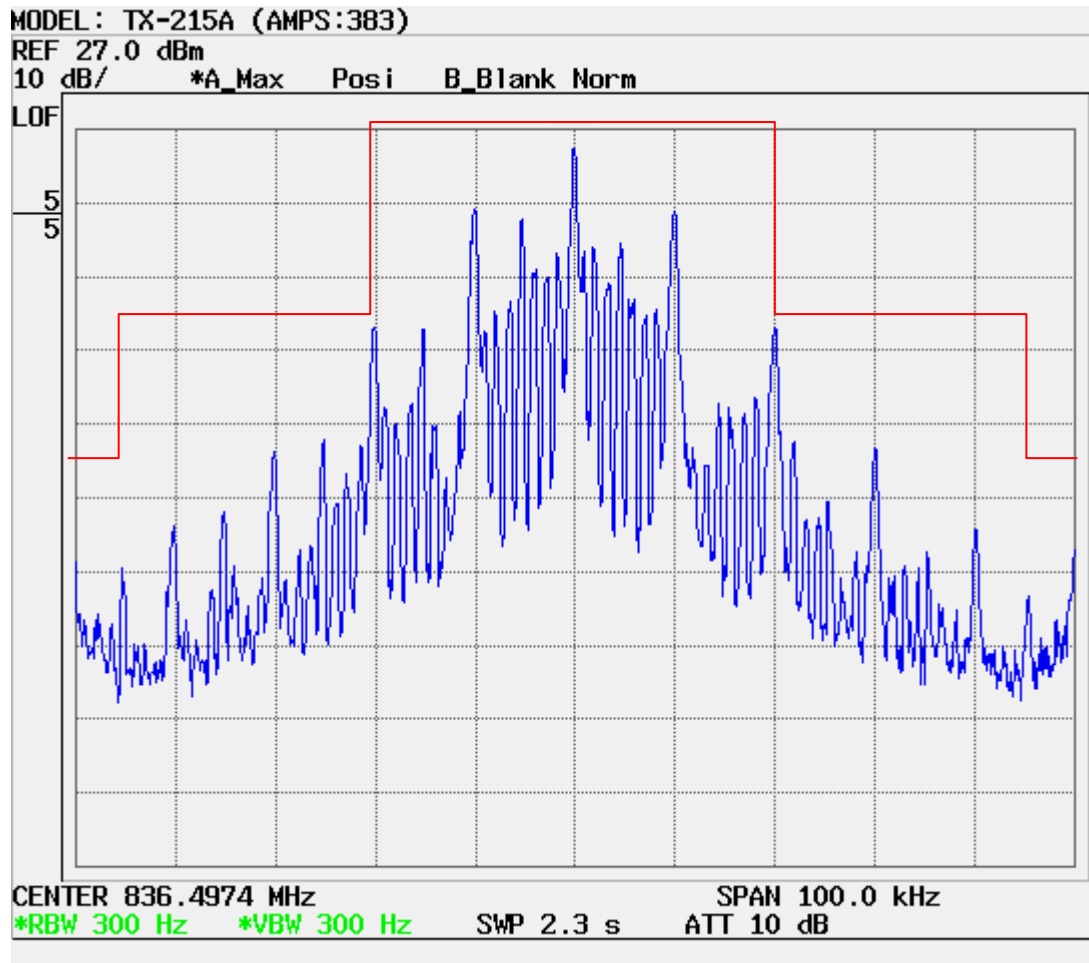
■ AMPS MODE (0383 CH.) Test Mode: SAT+ST



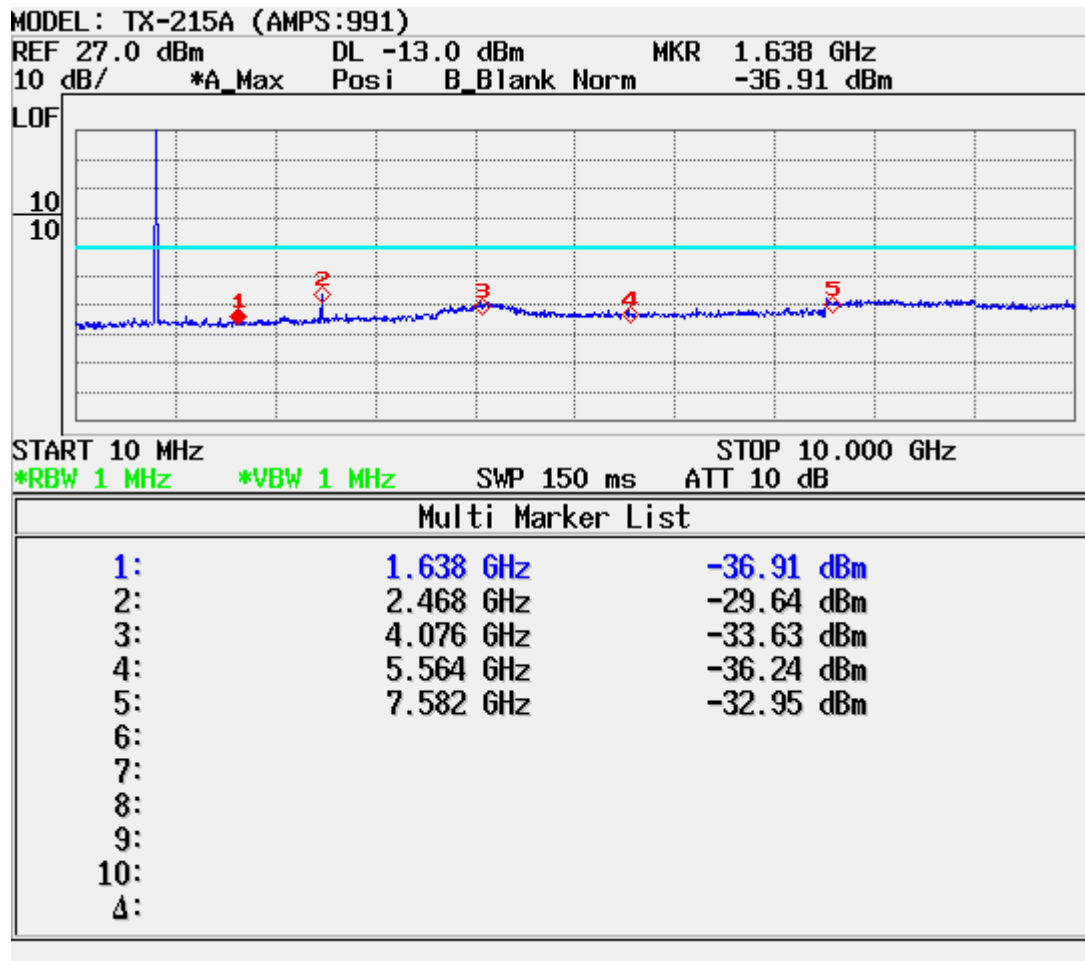
■ AMPS MODE (0383 CH.) Test Mode: Voice



■ **AMPS MODE (0383 CH.) Test Mode: Wide Band Data**

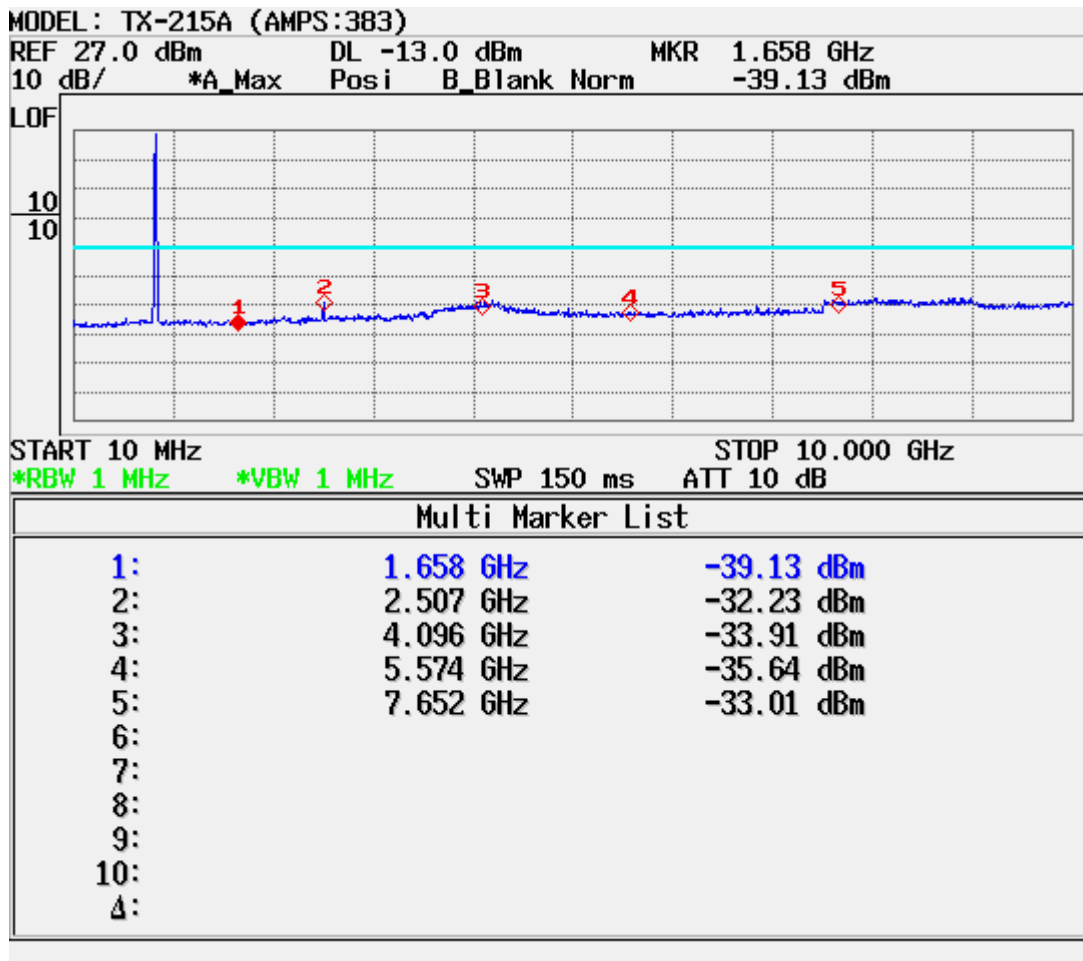


## ■ AMPS MODE (0991 CH.) Conducted Spurious

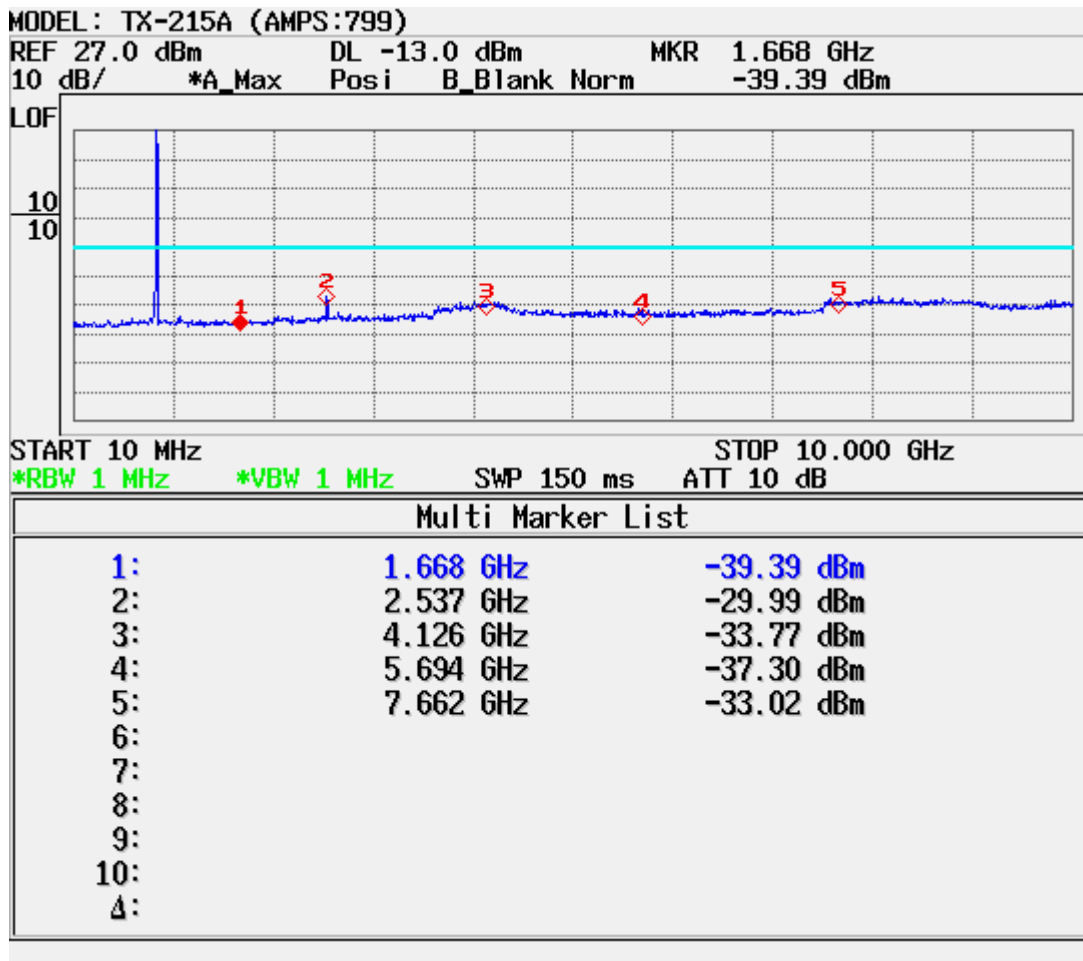




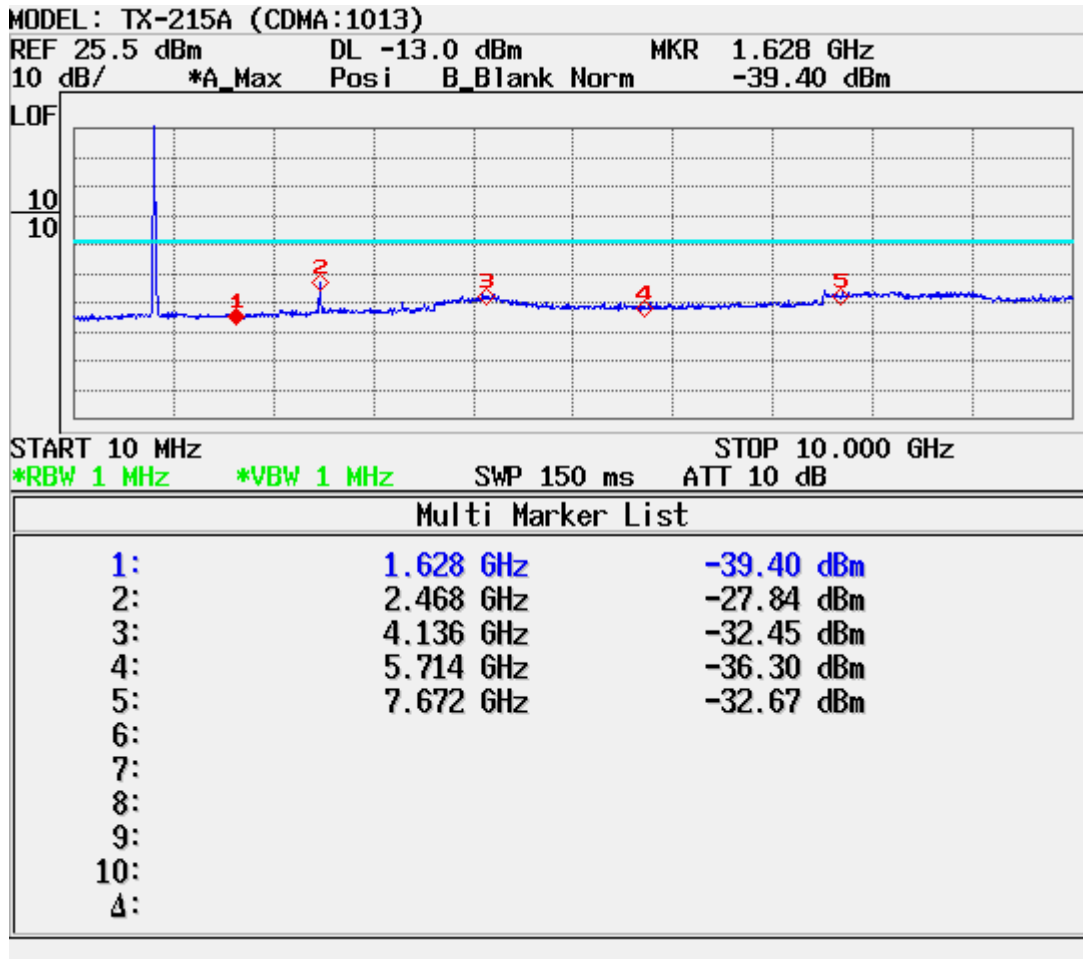
## ■ AMPS MODE (0383 CH.) Conducted Spurious



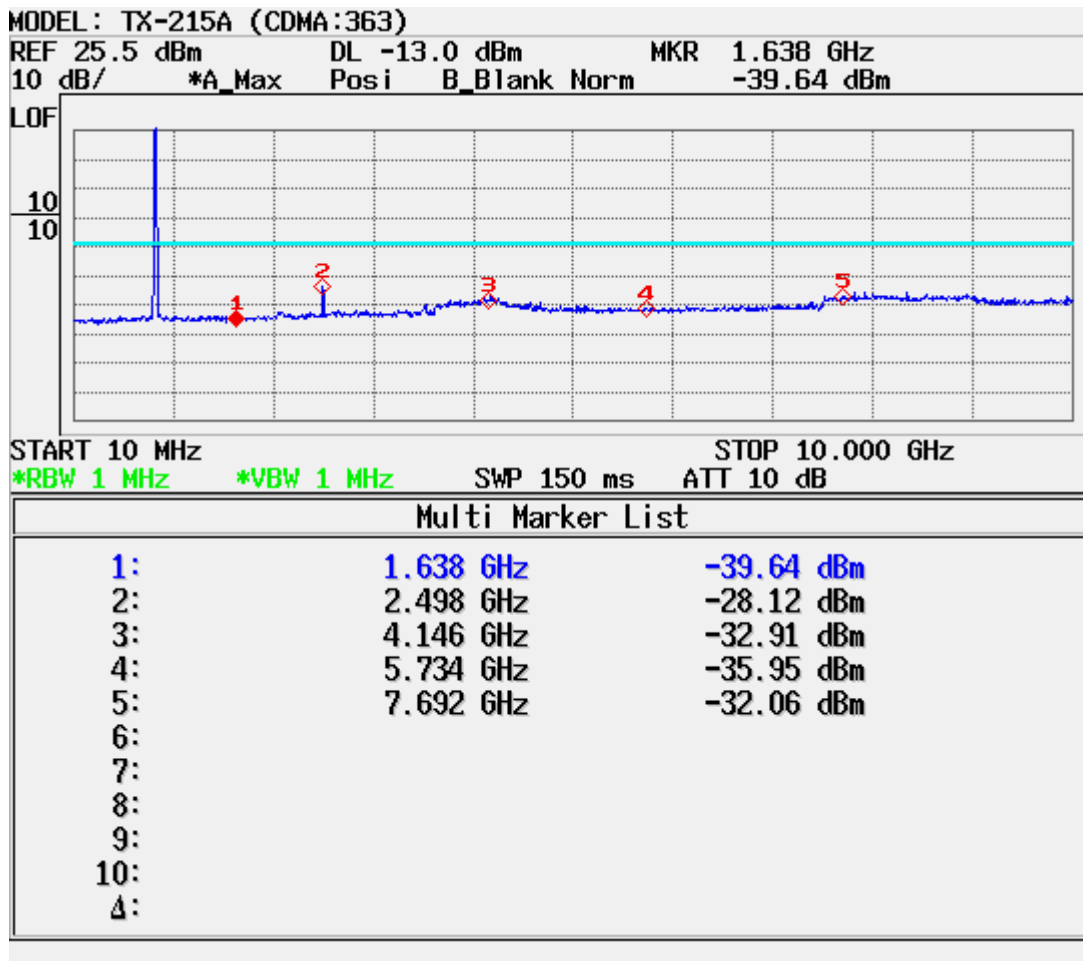
## ■ AMPS MODE (0799 CH.) Conducted Spurious



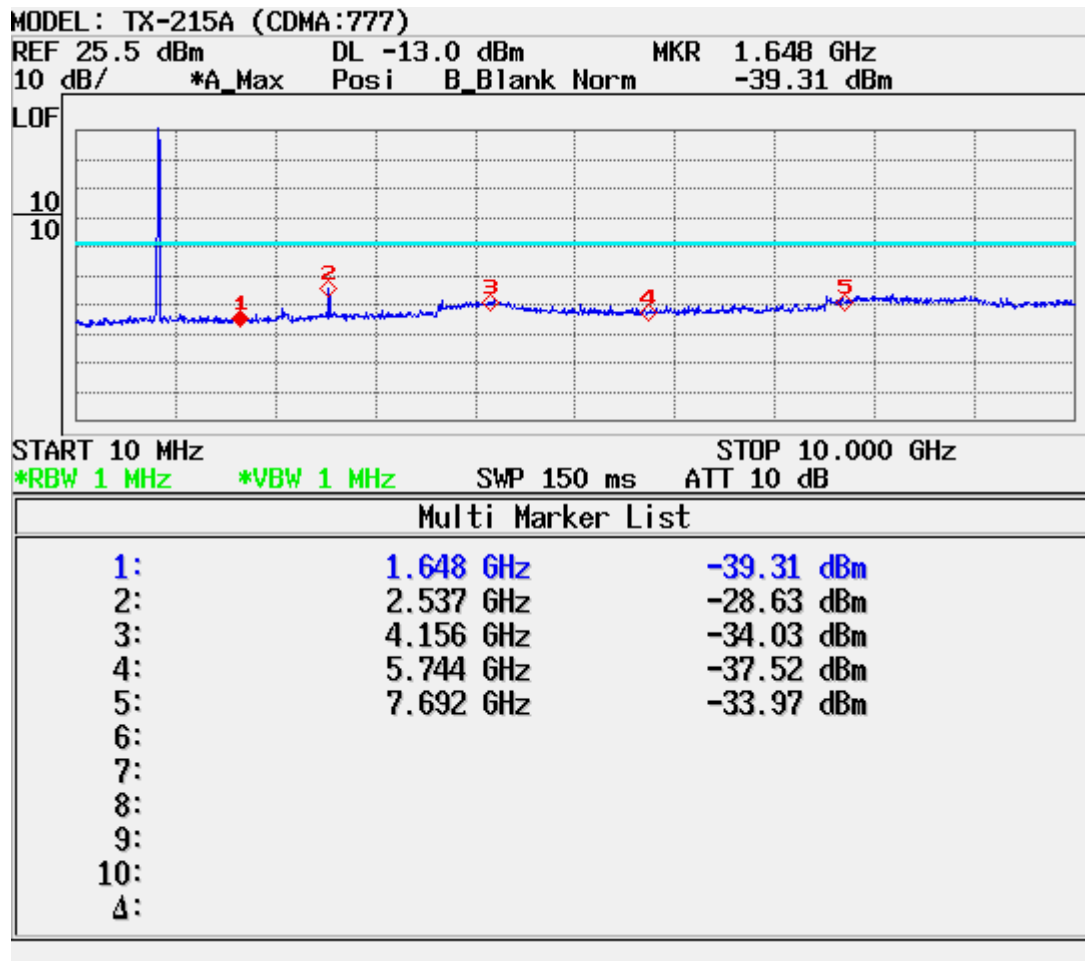
## ■ CDMA MODE (1013 CH.) Conducted Spurious



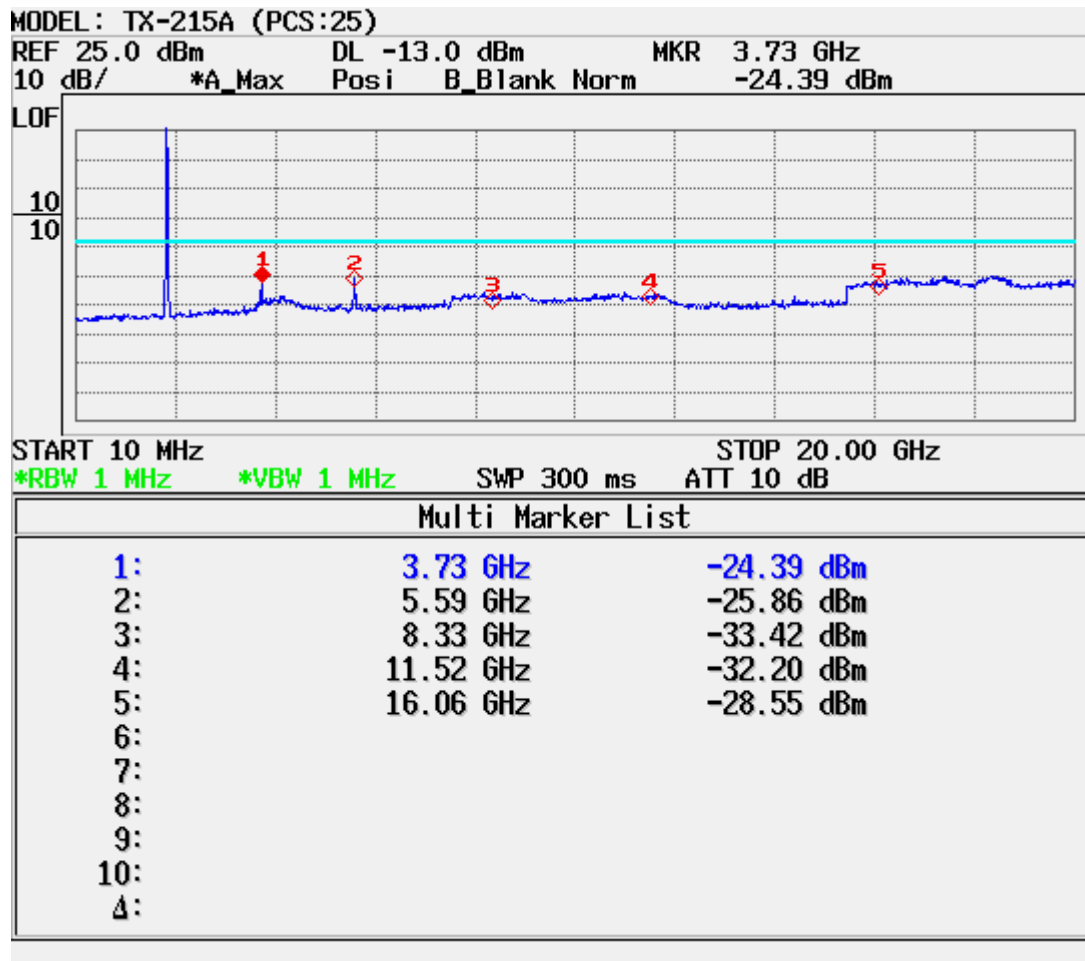
## ■ CDMA MODE (0363 CH.) Conducted Spurious



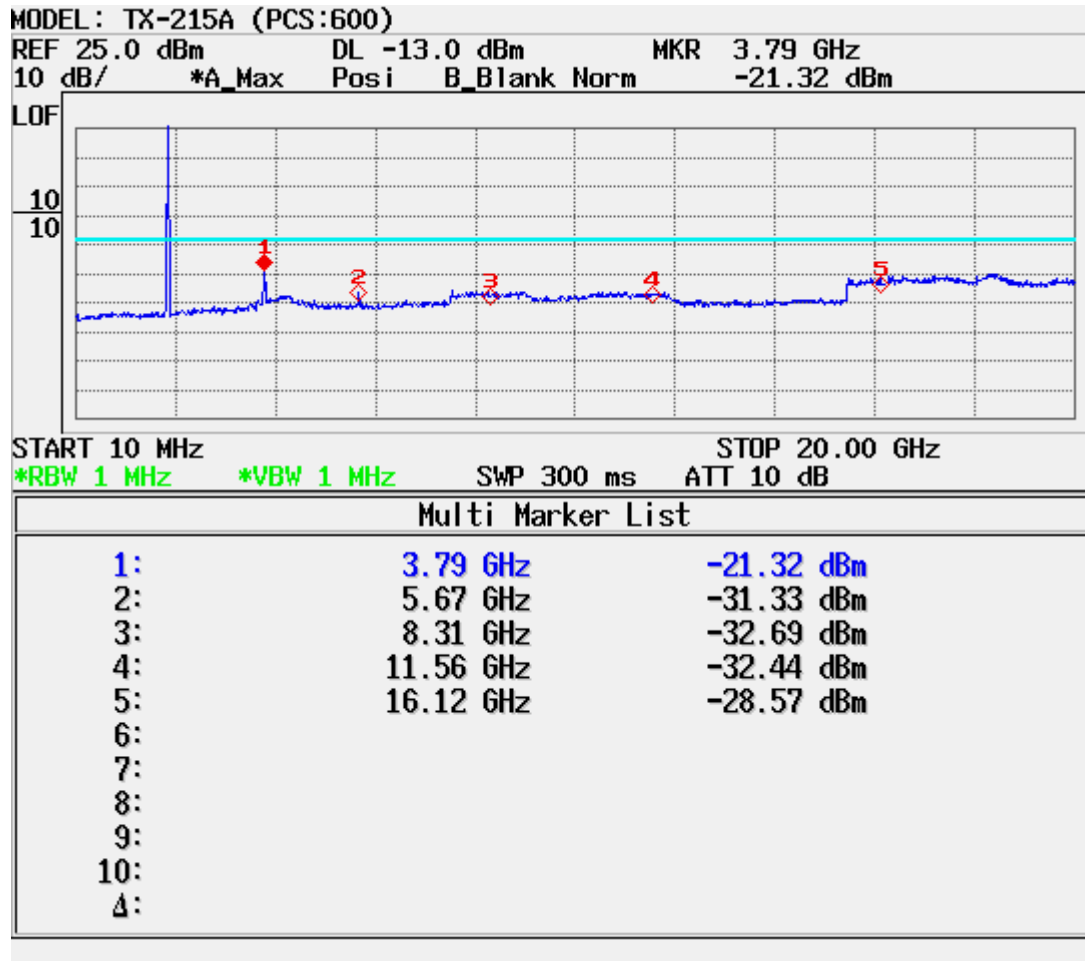
# ■ CDMA MODE (0777 CH.) Conducted Spurious



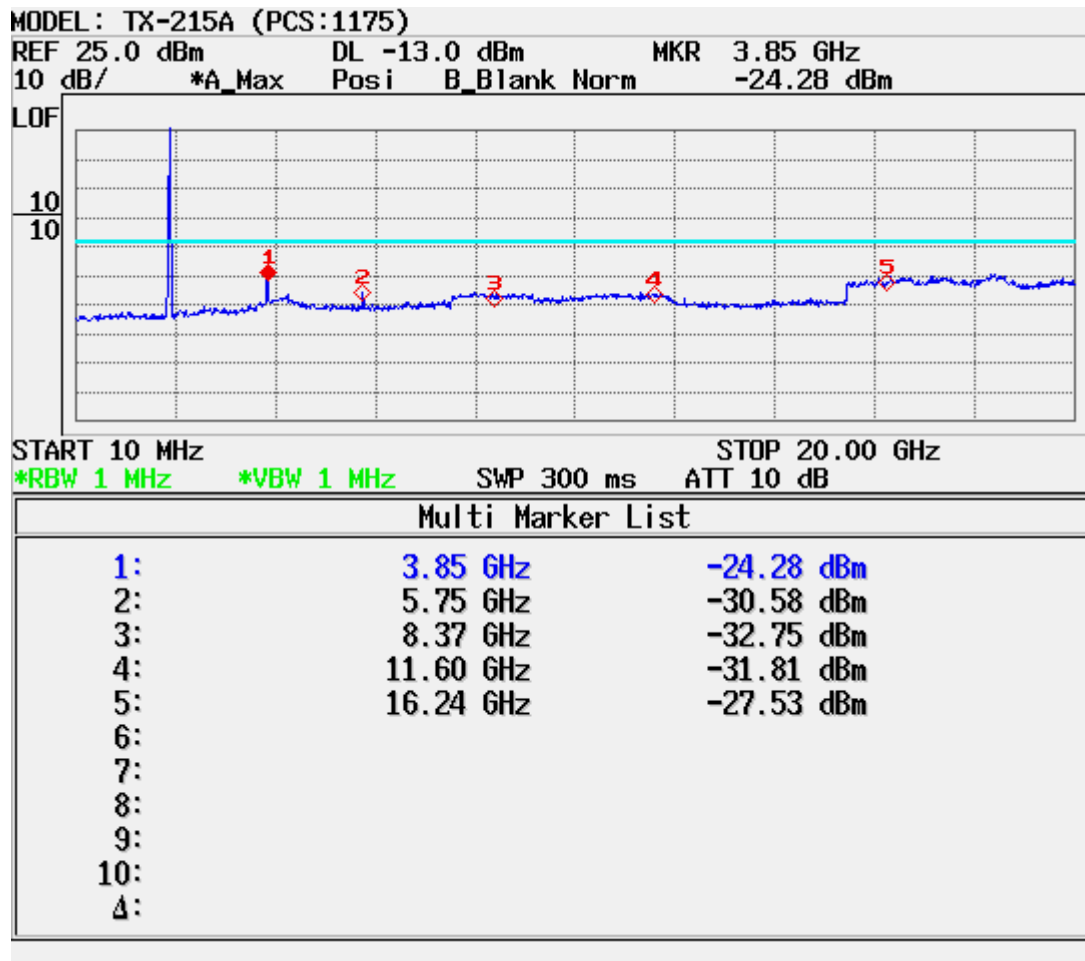
## ■ PCS CDMA MODE (0025 CH.) Conducted Spurious



## ■ PCS CDMA MODE (0600 CH.) Conducted Spurious

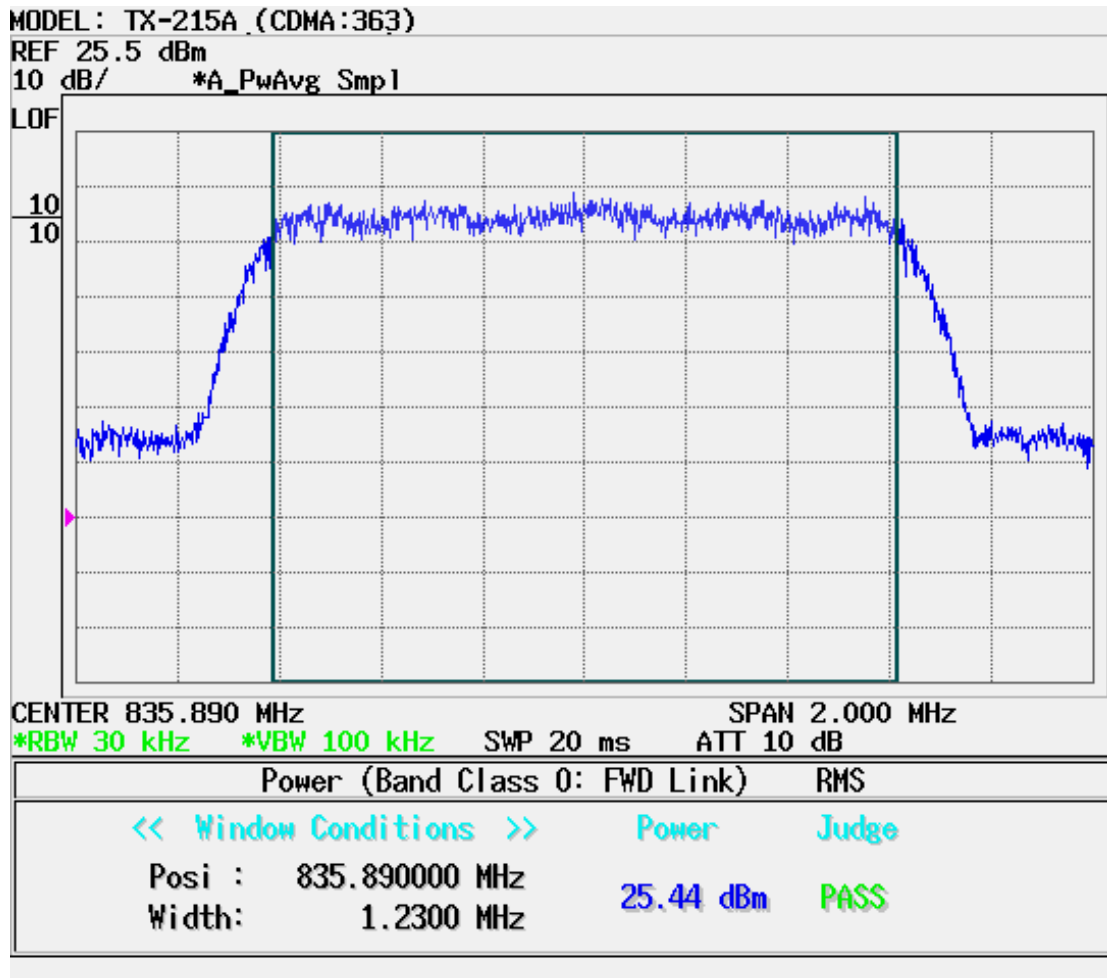


## ■ PCS CDMA MODE (1175 CH.) Conducted Spurious

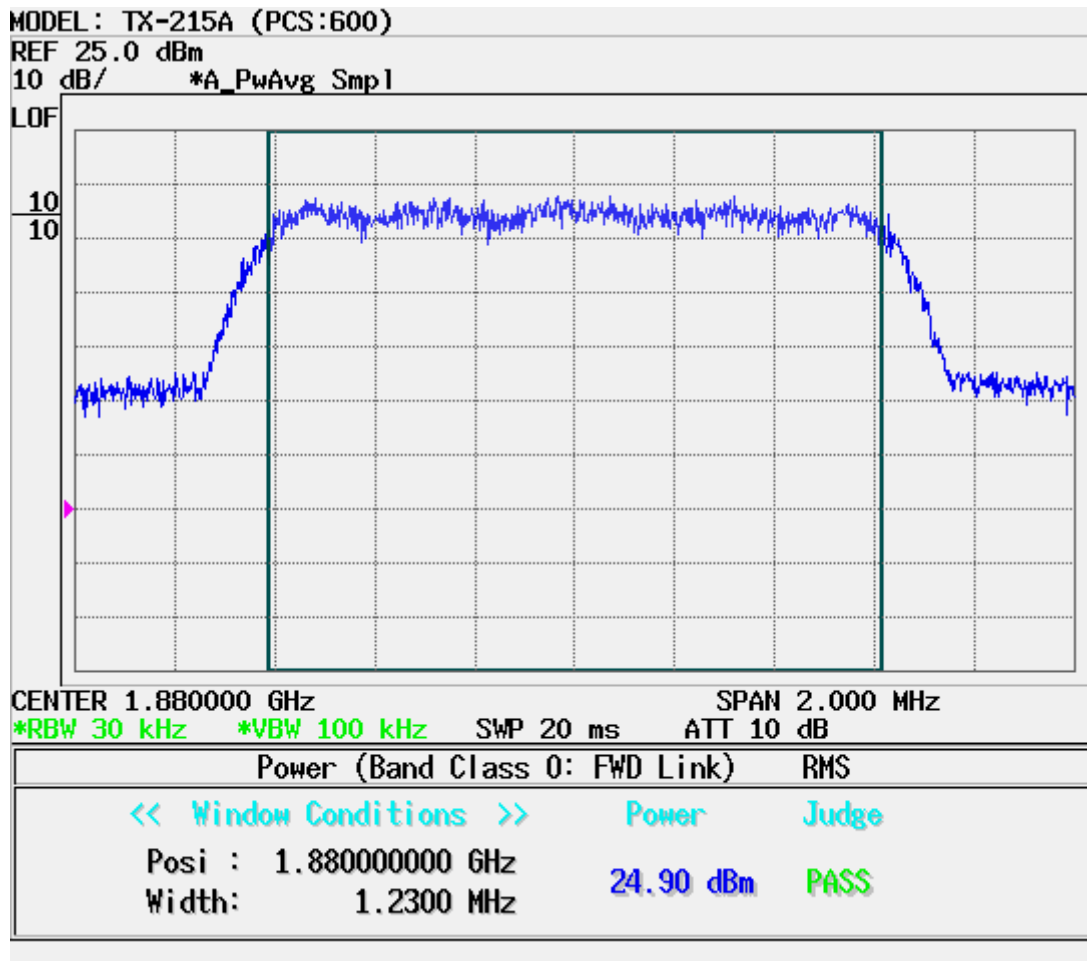




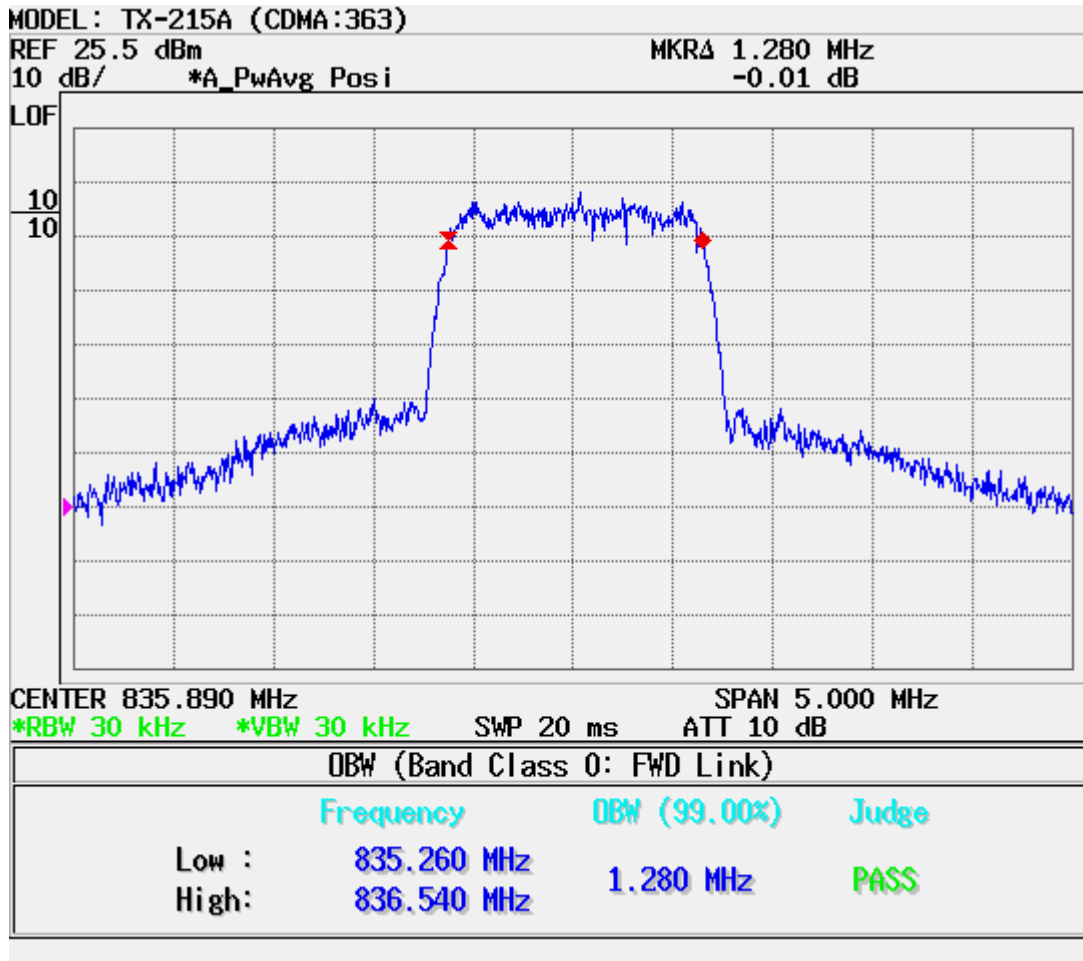
## ■ CDMA MODE (0363 CH.): Channel Power



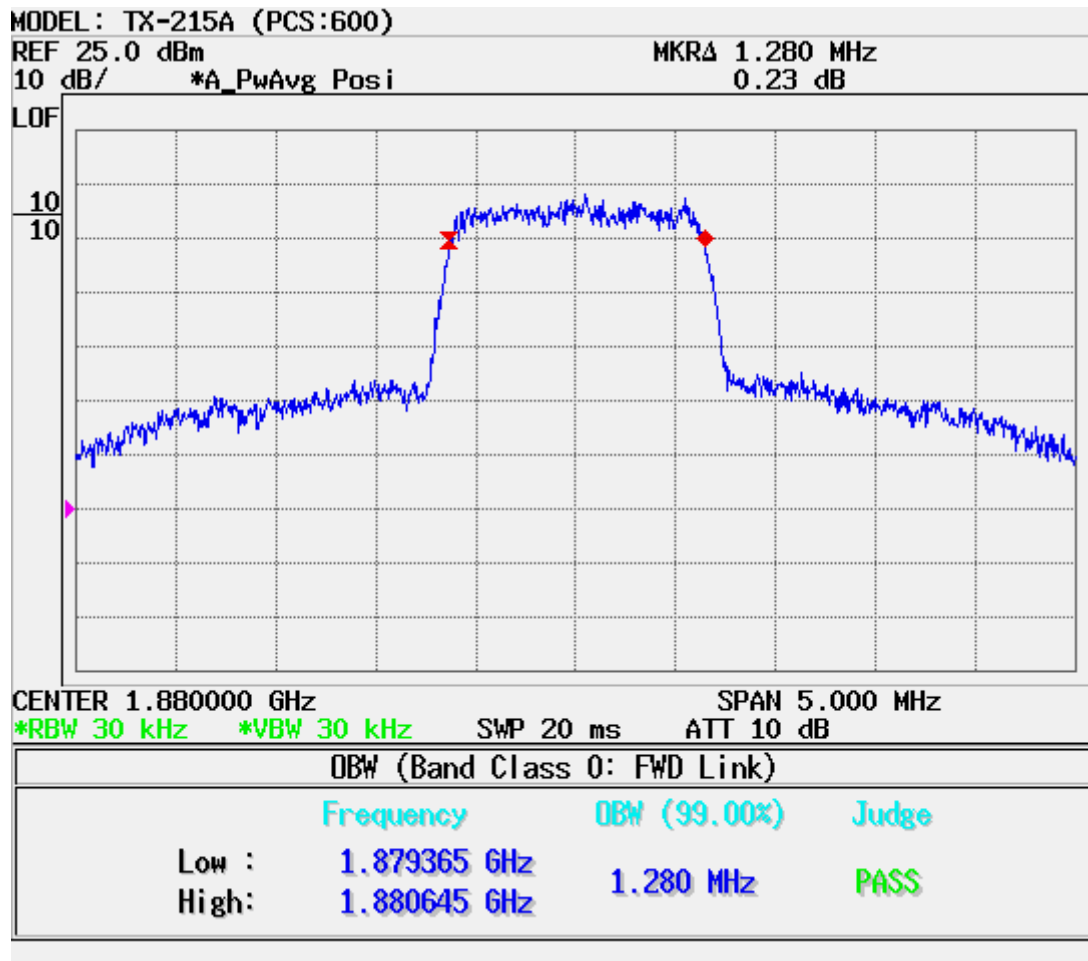
## ■ PCS CDMA MODE (0600 CH.) : Channel Power



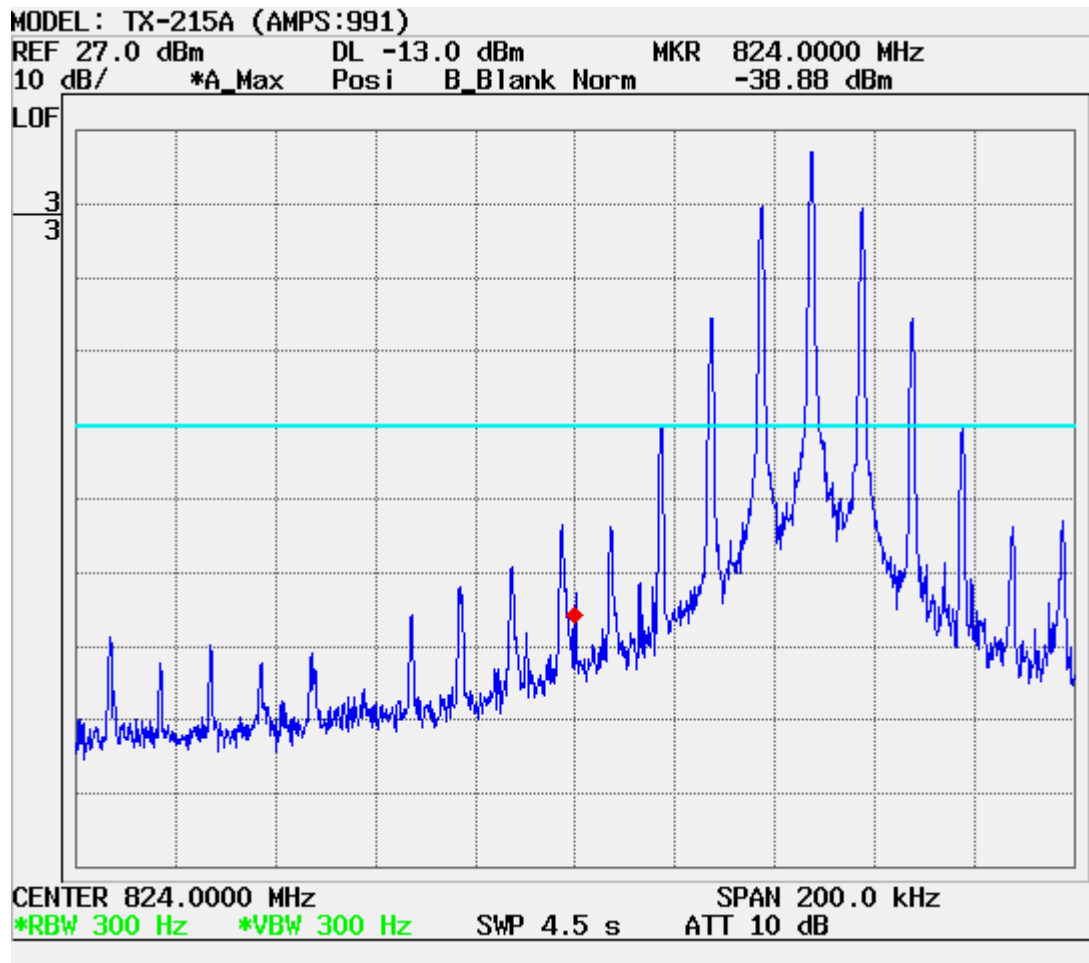
## ■ CDMA Mode (0363 CH.) : Occupied Bandwidth



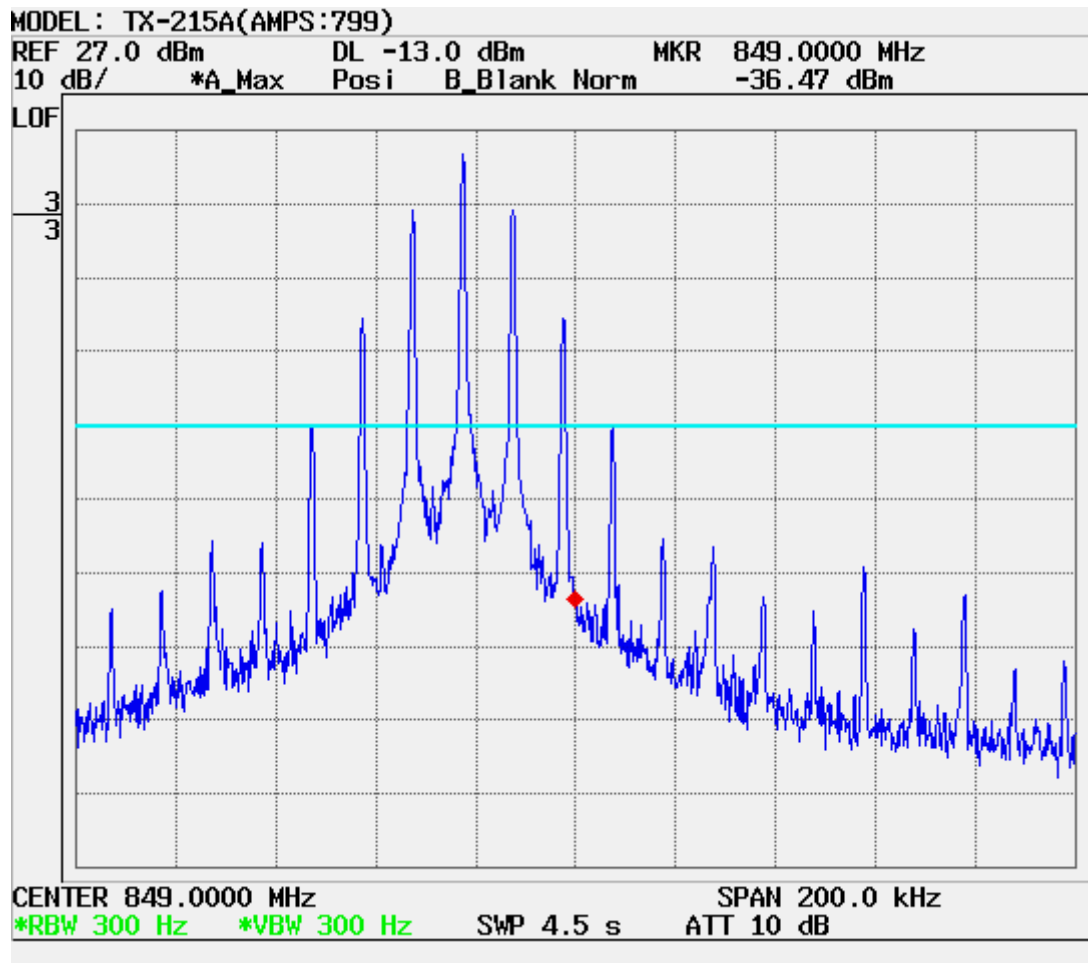
## ■ PCS CDMA Mode (0600 CH) : Occupied Bandwidth



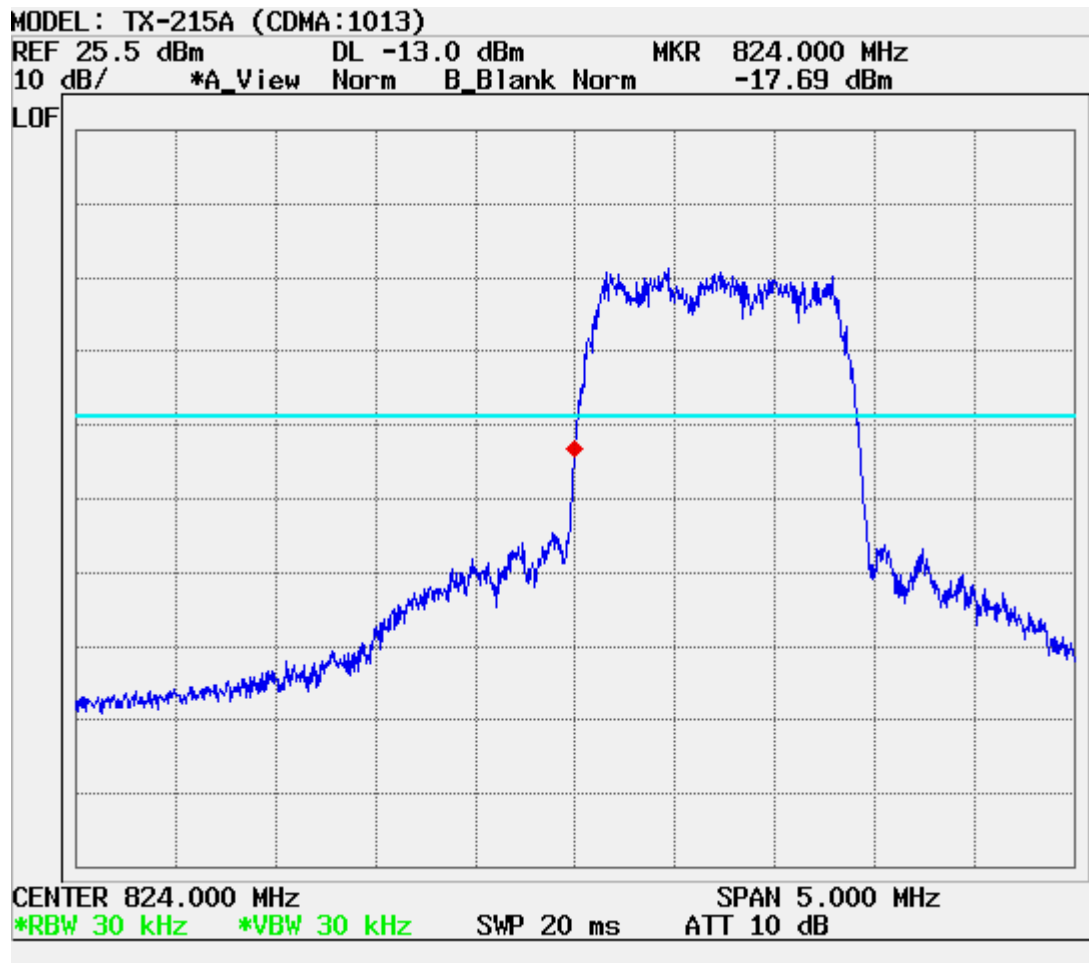
■ AMPS Mode (991 CH.) Block edge



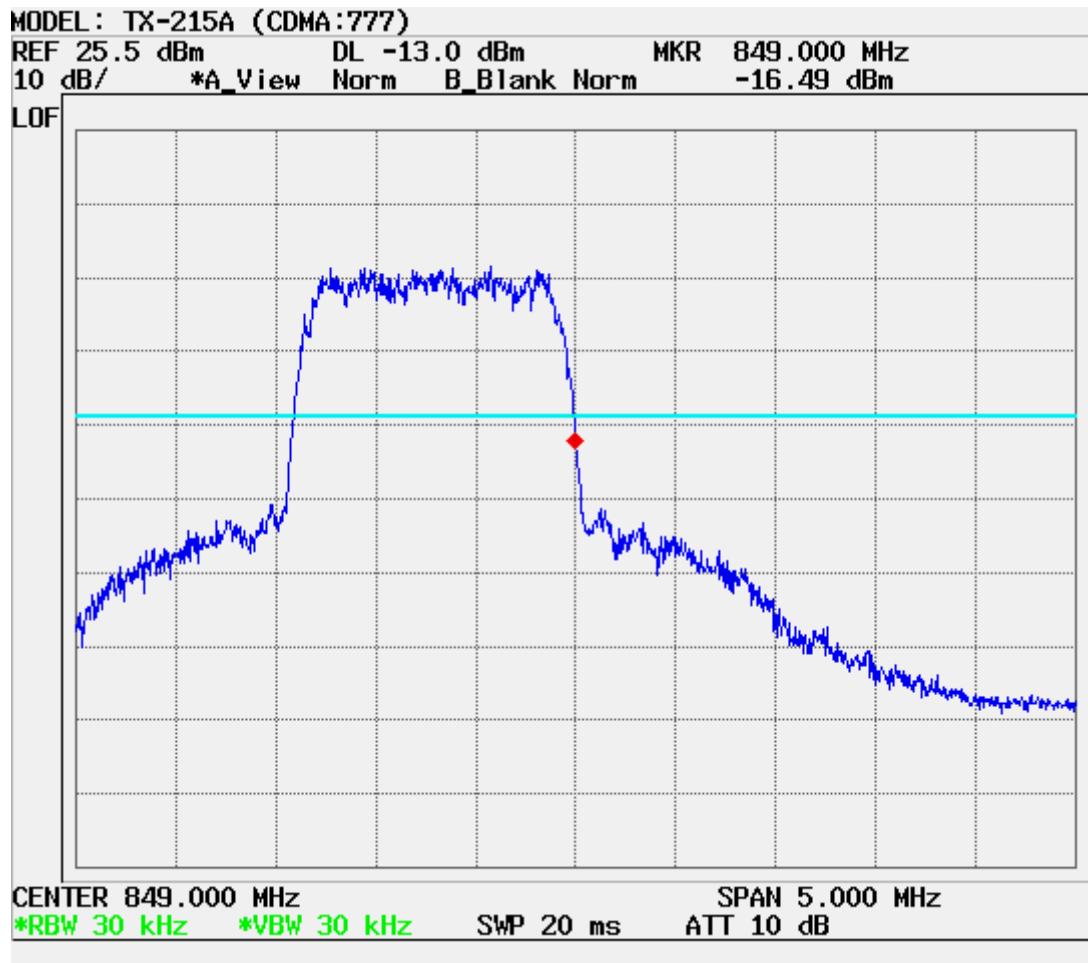
■ AMPS Mode (799 CH.) Band edge



## ■ CDMA Cellular (1013 CH.) Band Edge

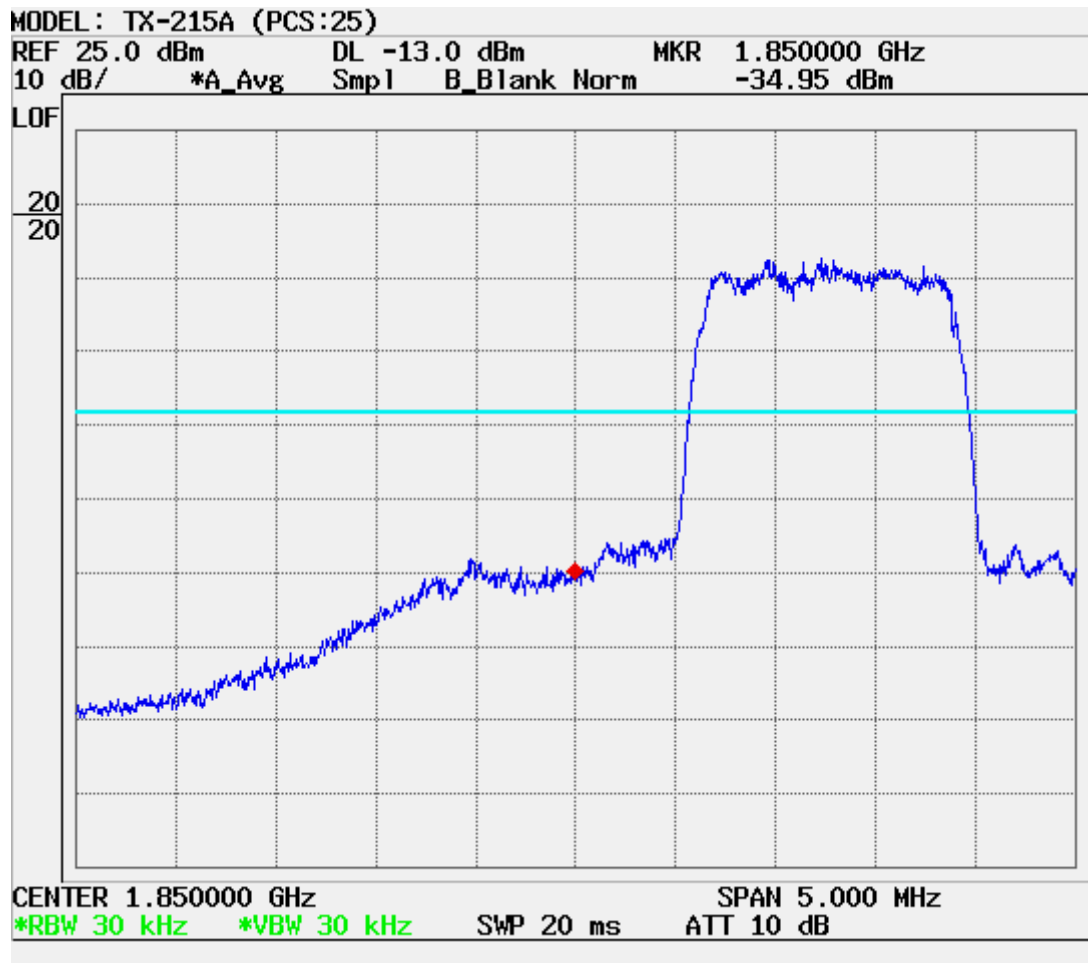


## ■ CDMA Cellular (777 CH.) Band Edge



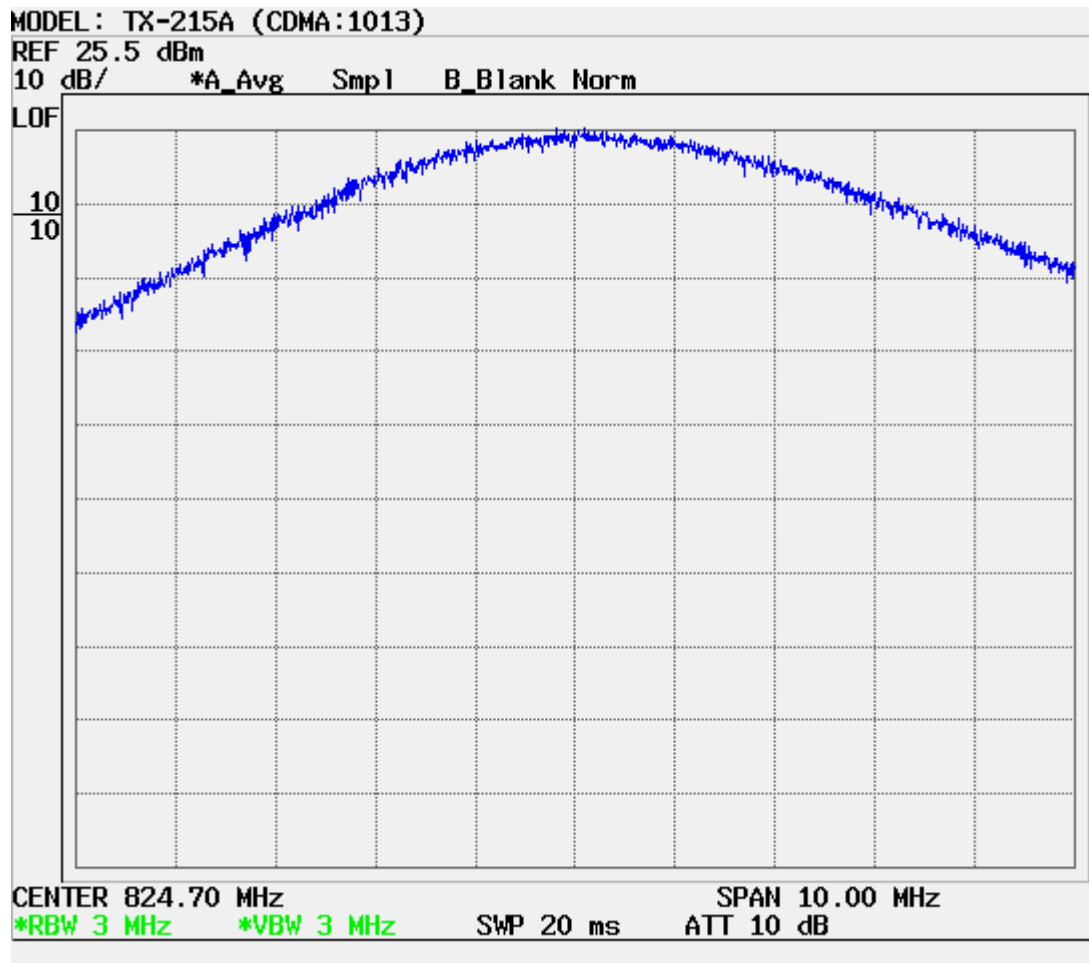


## ■ PCS Mode Band Edge (25 CH.)

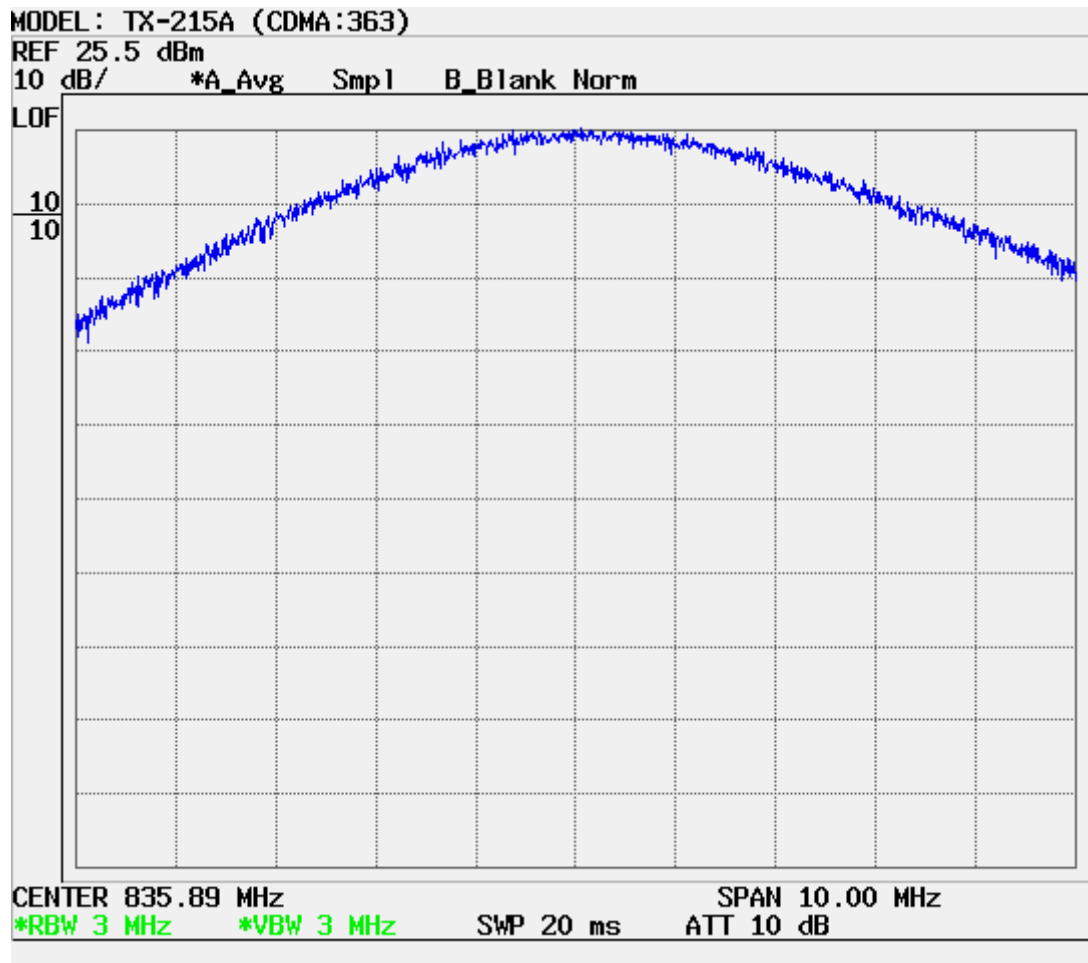


**■ PCS Mode Band Edge (1175 CH.)**

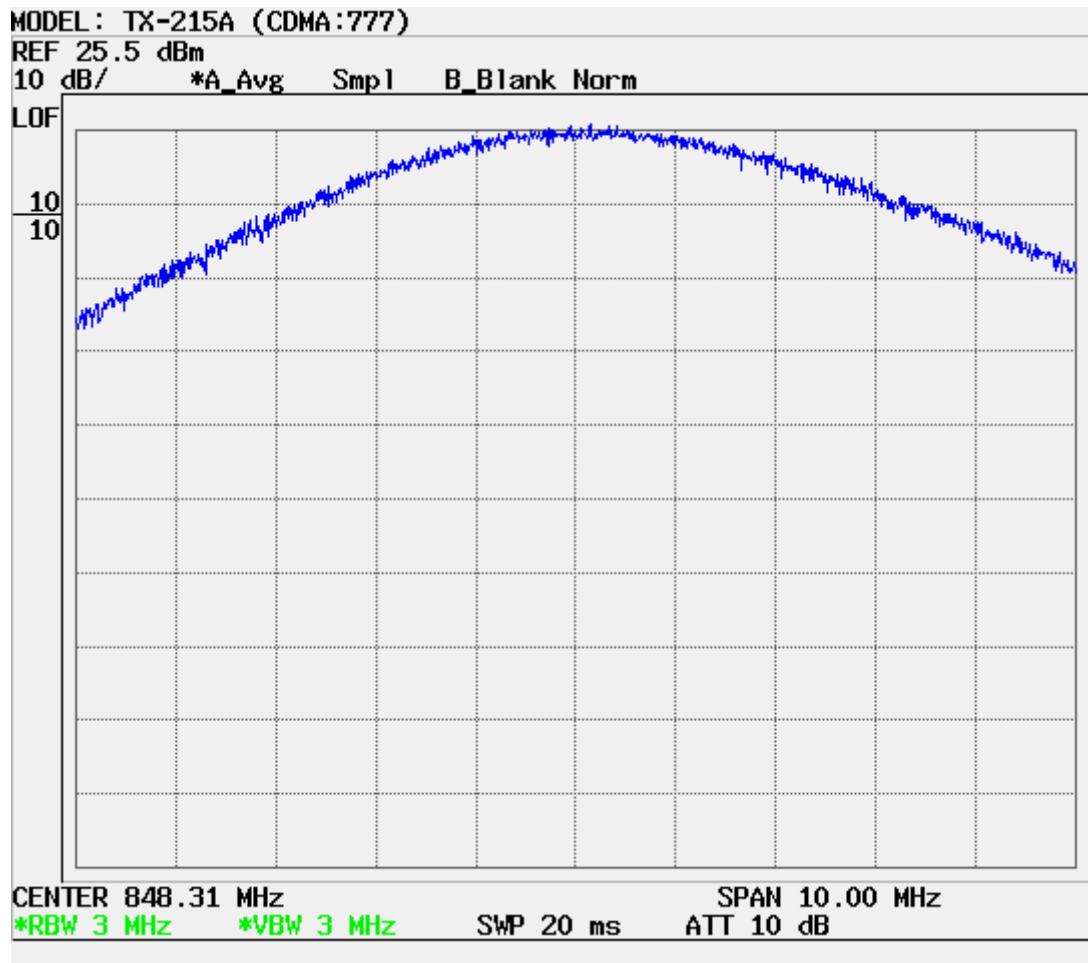
■ CDMA (1013 CH) Test Mode: POWER OUT



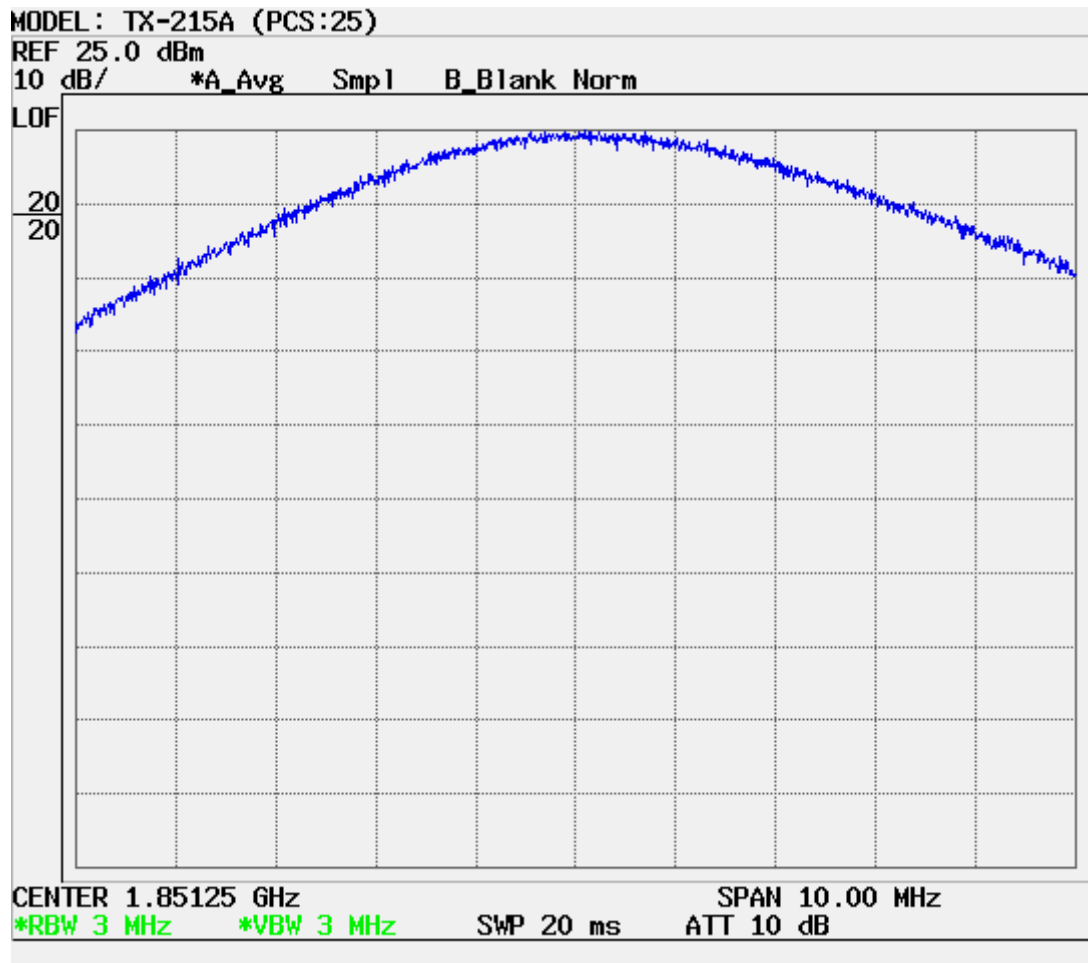
■ CDMA (0363 CH) Test Mode: POWER OUT



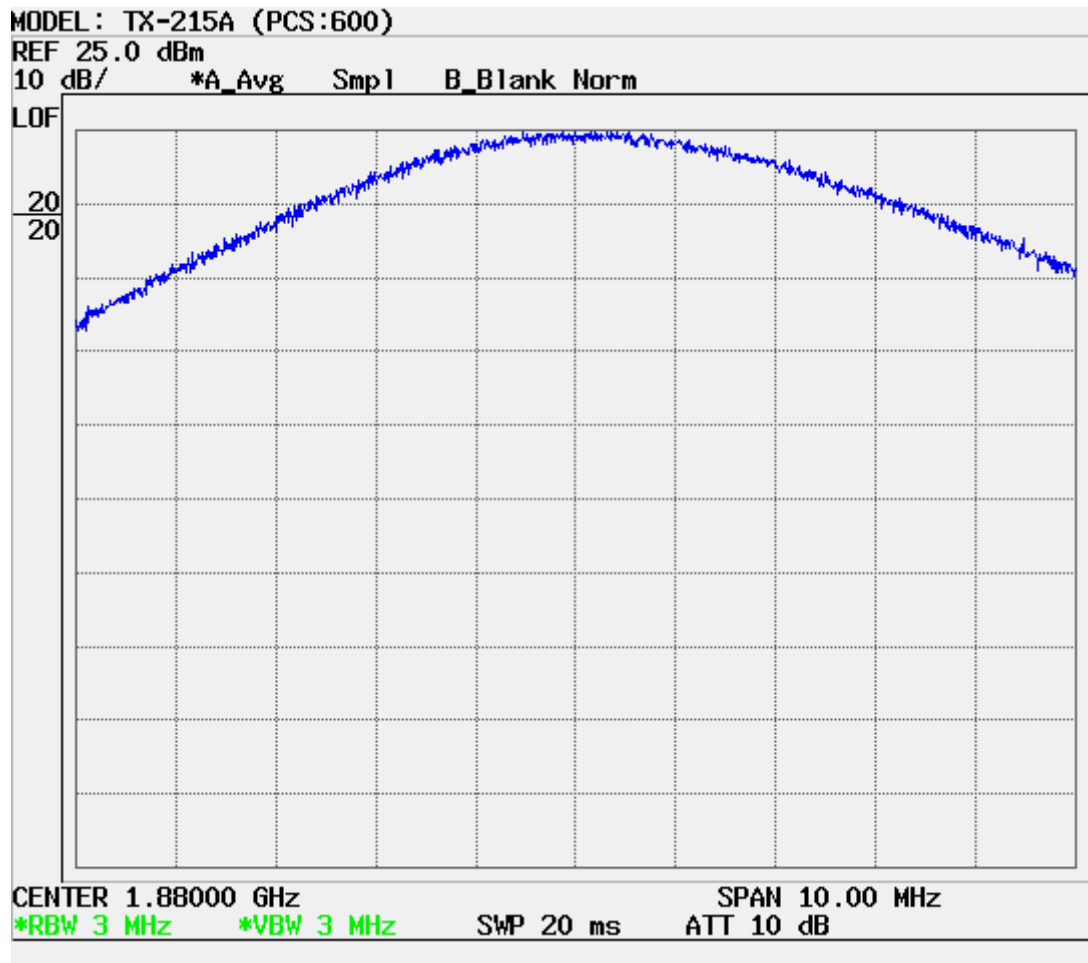
■ CDMA (0777 CH) Test Mode: POWER OUT



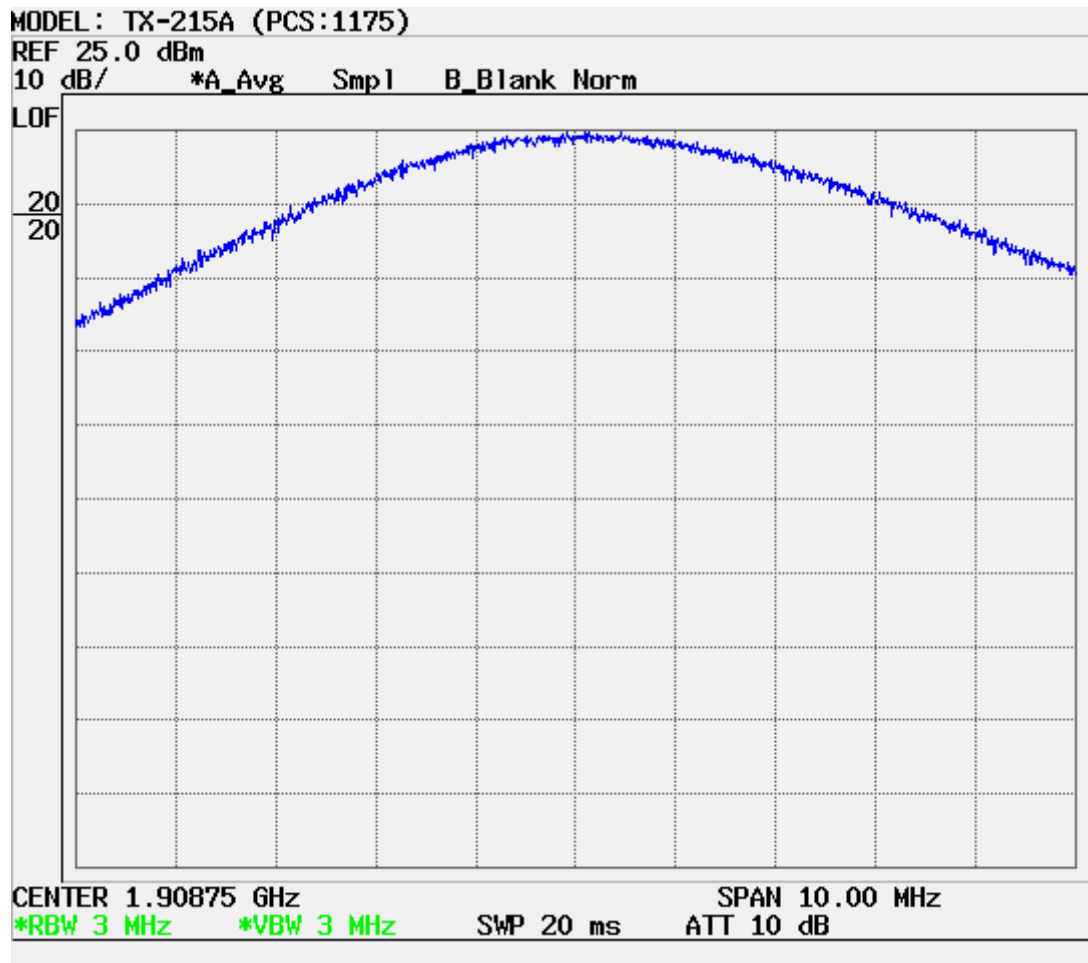
■ PCS CDMA (0025 CH) Test Mode: POWER OUT



■ PCS CDMA (0600 CH) Test Mode: POWER OUT



■ PCS CDMA (1175 CH) Test Mode: POWER OUT





MODEL : TX-215A(AMPS:991)

REF -35.0 dBm

DL -80.0 dBm

MKR 873.45 MHz

10 dB/

\*A\_View

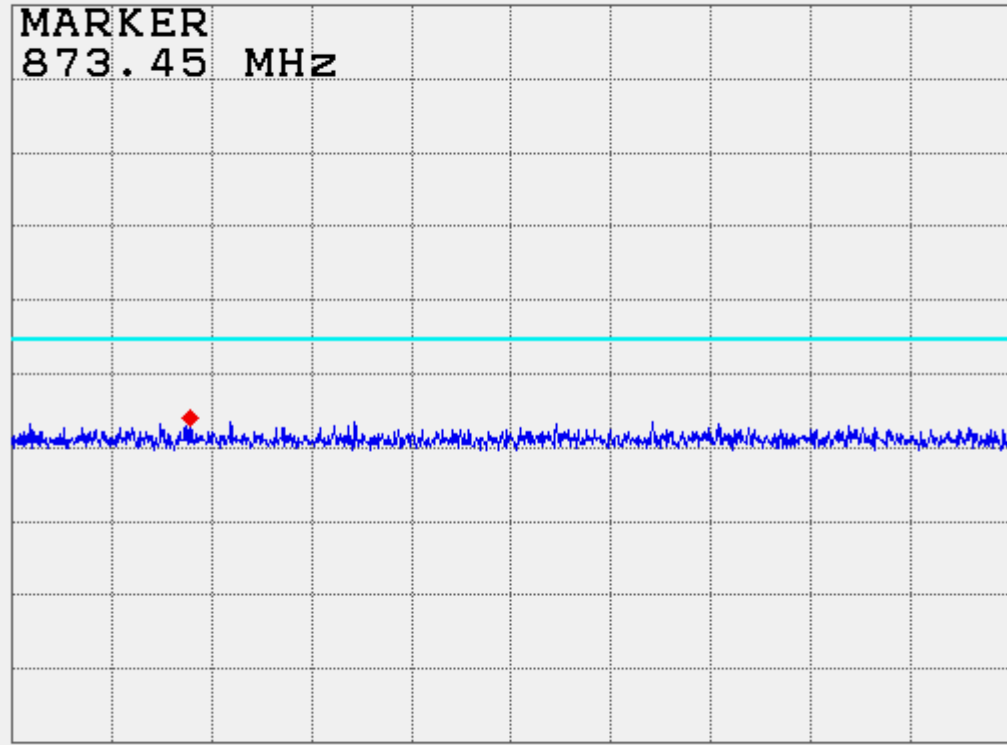
Norm

B\_Blank Norm

-91.07 dBm

LOF

MARKER  
873.45 MHz



START 869.00 MHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 20 ms

STOP 894.00 MHz

ATT 10 dB

MODEL: TX-215A(AMPS:383)

REF -35.0 dBm

DL -80.0 dBm

MKR 887.92 MHz

10 dB/

\*A\_View

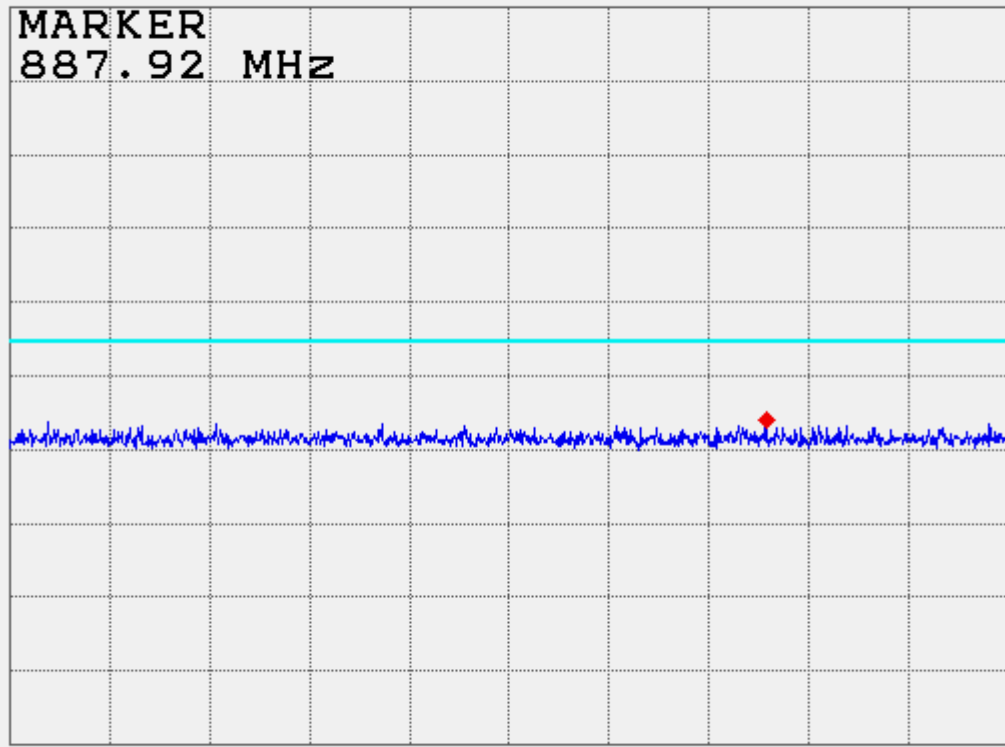
Norm

B\_Blank Norm

-90.95 dBm

LOF

MARKER  
887.92 MHz



START 869.00 MHz

STOP 894.00 MHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 20 ms

ATT 10 dB

MODEL: TX-215A(AMPS:799)

REF -35.0 dBm

DL -80.0 dBm

MKR 883.75 MHz

10 dB/

\*A\_View

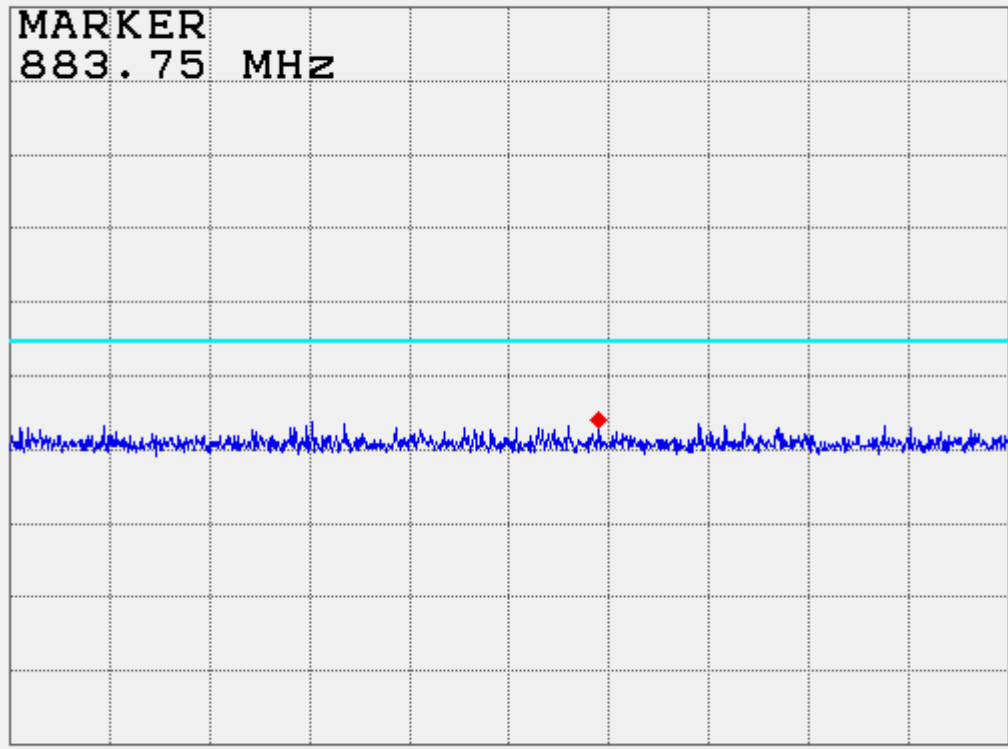
Norm

B\_Blank Norm

-90.88 dBm

LOF

MARKER  
883.75 MHz



START 869.00 MHz

STOP 894.00 MHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 20 ms

ATT 10 dB

MODEL : TX-215A(CDMA:1013)

REF -35.0 dBm

DL -80.0 dBm

MKR 883.50 MHz

10 dB/

\*A\_View

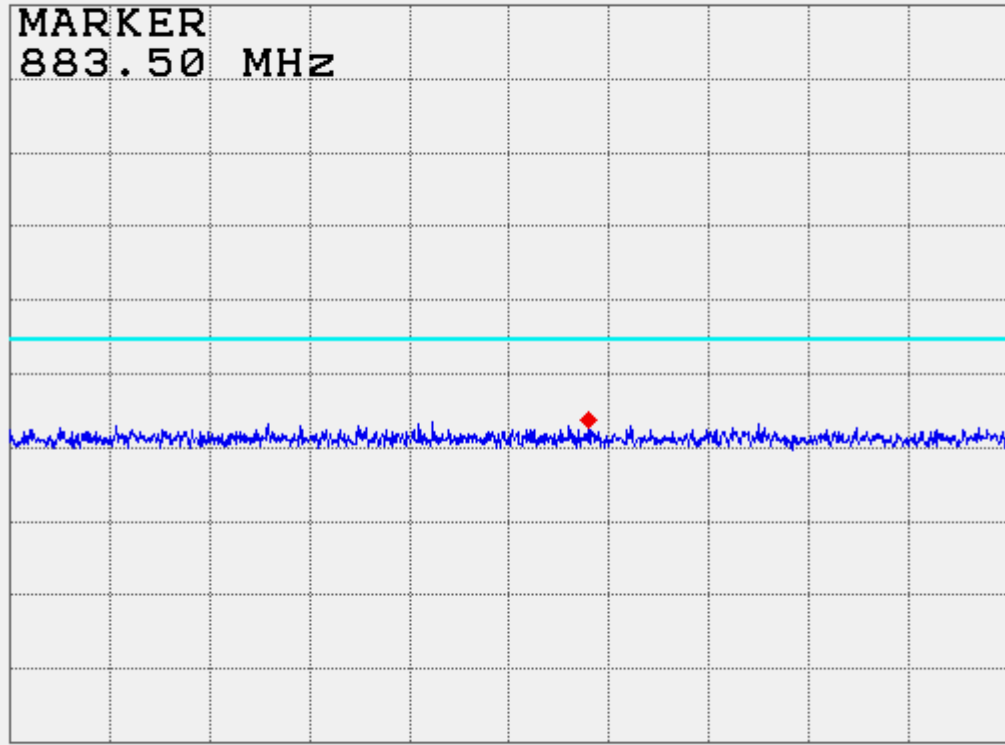
Norm

B\_Blank Norm

-91.28 dBm

LOF

MARKER  
883.50 MHz



START 869.00 MHz

STOP 894.00 MHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 20 ms

ATT 10 dB

MODEL: TX-215A(CDMA:363)

REF -35.0 dBm

DL -80.0 dBm

MKR 874.73 MHz

10 dB/

\*A\_View

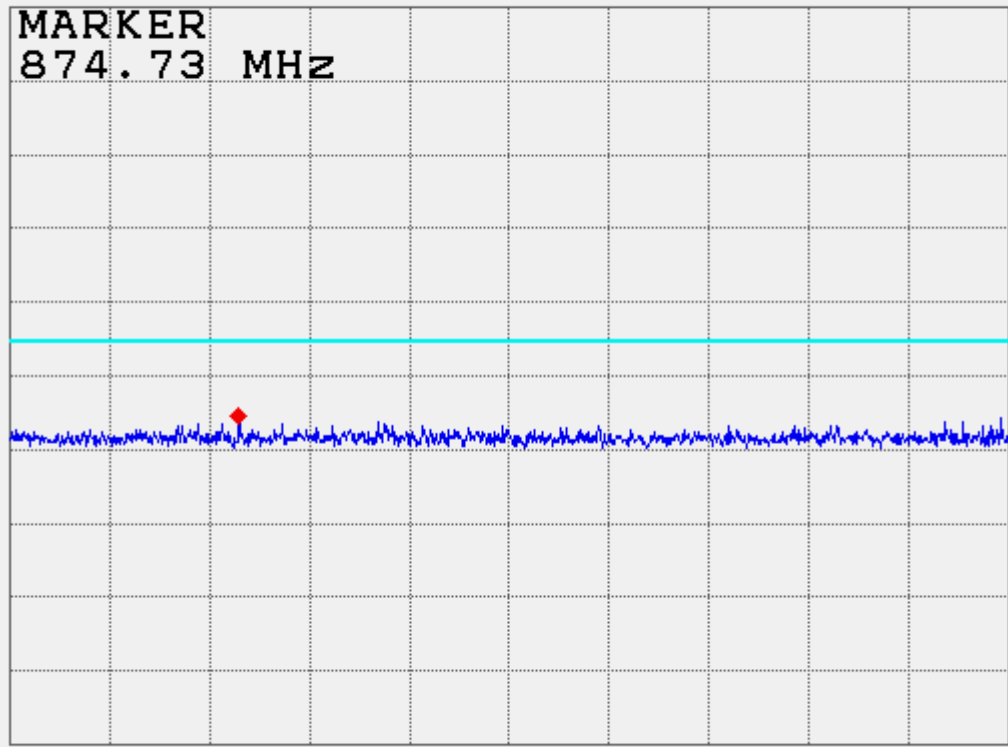
Norm

B\_Blank Norm

-90.38 dBm

LOF

MARKER  
874.73 MHz



START 869.00 MHz

STOP 894.00 MHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 20 ms

ATT 10 dB

MODEL: TX-215A(CDMA:777)

REF -35.0 dBm

DL -80.0 dBm

MKR 887.15 MHz

10 dB/

\*A\_View

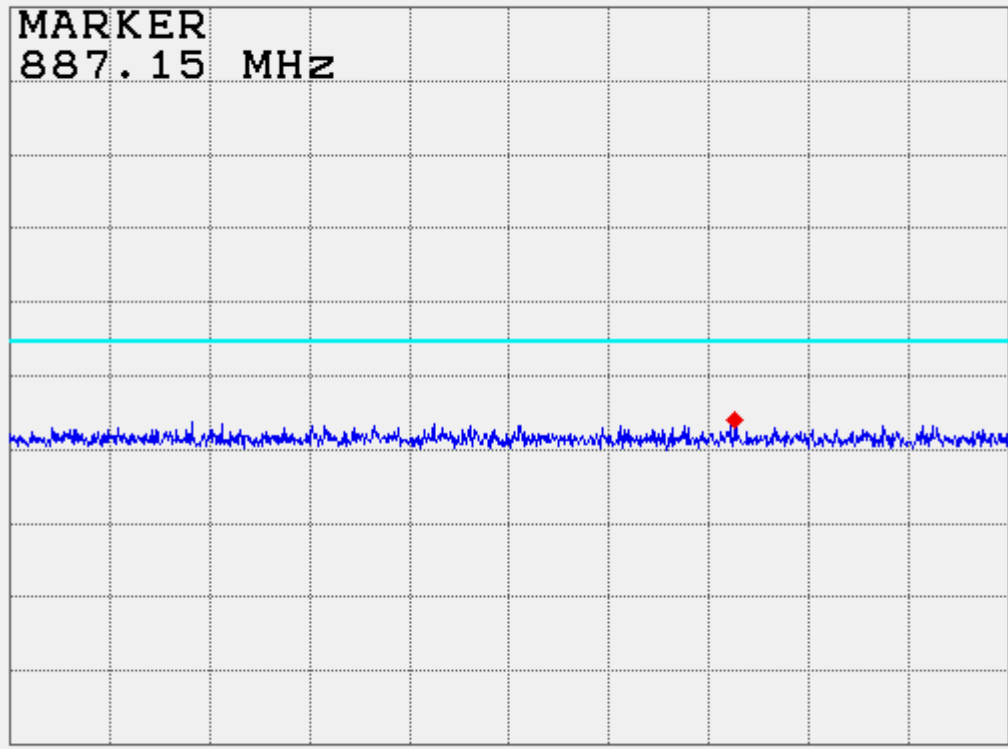
Norm

B\_Blank Norm

-90.91 dBm

LOF

MARKER  
887.15 MHz



START 869.00 MHz

STOP 894.00 MHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 20 ms

ATT 10 dB

## Modulation Limiting

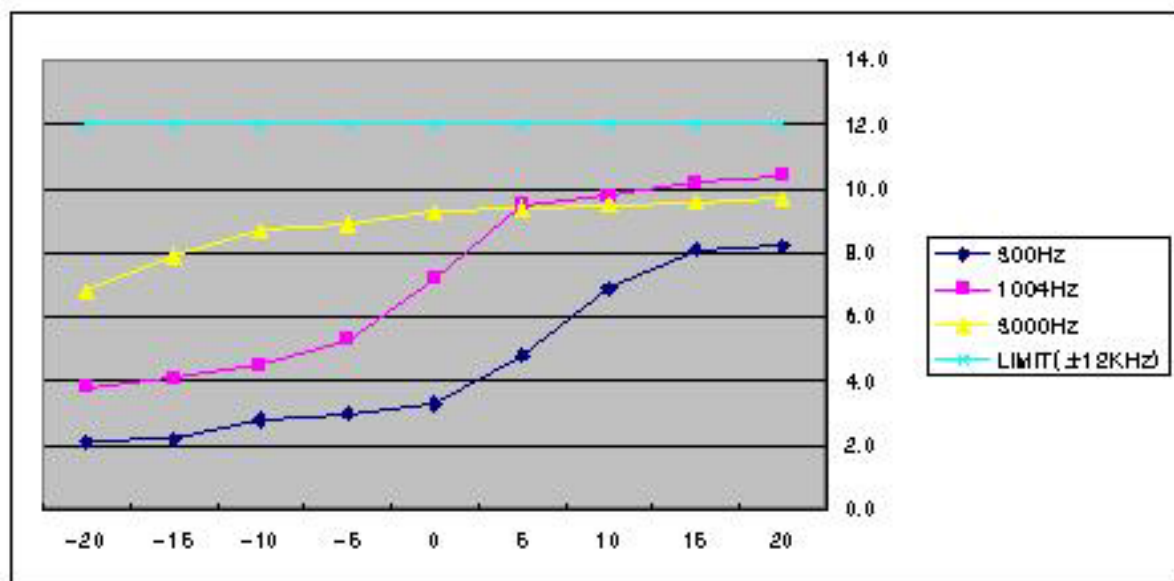
■ SUBJECT: Modulation Characteristics(FCC Part 22)

■ FCC ID: PP4TX-215A

■ EUT: Hyundai Oritel Inc. / Tri-Mode Phone

[KHz]

| Input(dBV) | 300Hz | 1004Hz | 3000Hz | LIMIT(±12KHz) |
|------------|-------|--------|--------|---------------|
| 20         | 8.2   | 10.4   | 9.7    | 12            |
| 15         | 8.1   | 10.2   | 9.6    | 12            |
| 10         | 6.9   | 9.8    | 9.5    | 12            |
| 5          | 4.8   | 9.5    | 9.4    | 12            |
| 0          | 3.3   | 7.2    | 9.3    | 12            |
| -5         | 3.0   | 5.3    | 8.9    | 12            |
| -10        | 2.8   | 4.5    | 8.7    | 12            |
| -15        | 2.2   | 4.1    | 7.9    | 12            |
| -20        | 2.1   | 3.8    | 6.8    | 12            |



### TEST METHOD

1. CONNECT MODULATION
2. 1 KHz 60% DEVIATION(7.2 KHz) ADJUST
3. VARY INPUT LEVEL (5dB)
4. VARY FREQUENCY AT 300Hz, 1004Hz, 3000Hz)

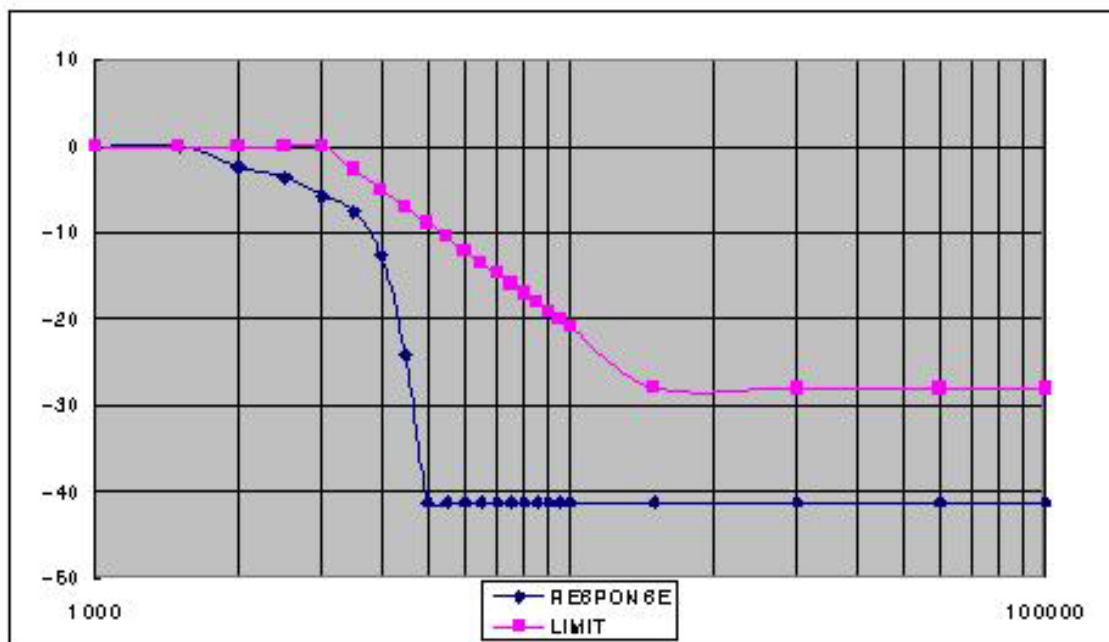
## Frequency Response of Audio Low Pass Filter

■ SUBJECT: Modulation Characteristics(FCC Part 22)

■ FCC ID: PP4TX-215A

■ EUT: Hyundai Curitel Inc. / Tri-Mode Phone

| FREQ   | RESPONSE | LIMIT  |
|--------|----------|--------|
| 1000   | 0        | 0.00   |
| 1500   | 0        | 0.00   |
| 2000   | -2.38    | 0.00   |
| 2500   | -3.56    | 0.00   |
| 3000   | -5.76    | 0.00   |
| 3500   | -7.51    | -2.68  |
| 4000   | -12.64   | -5.00  |
| 4500   | -24.16   | -7.04  |
| 5000   | -41.22   | -8.87  |
| 5500   | -41.22   | -10.53 |
| 6000   | -41.22   | -12.04 |
| 6500   | -41.22   | -13.43 |
| 7000   | -41.22   | -14.72 |
| 7500   | -41.22   | -15.92 |
| 8000   | -41.22   | -17.04 |
| 8500   | -41.22   | -18.09 |
| 9000   | -41.22   | -19.08 |
| 9500   | -41.22   | -20.02 |
| 10000  | -41.22   | -20.92 |
| 15000  | -41.22   | -27.96 |
| 30000  | -41.22   | -28    |
| 60000  | -41.22   | -28    |
| 100000 | -41.22   | -28    |





## Transmitter Audio Frequency Response

- SUBJECT: Modulation Characteristics(FCC Part 22)
- FCC ID: PP4TX-215A
- EUT: Hyundai Dairtel Inc./Tri-Mode Phone

| FREQUENCY | RESONSE | LIMIT  |        |
|-----------|---------|--------|--------|
|           |         | -3     | 1      |
| 300       | -11.49  | -13.46 | -9.46  |
| 400       | -8.79   | -10.96 | -6.96  |
| 500       | -7.16   | -9.02  | -5.02  |
| 600       | -5.23   | -7.44  | -3.44  |
| 700       | -3.86   | -6.10  | -2.10  |
| 800       | -2.84   | -4.94  | -0.94  |
| 900       | -1.29   | -3.92  | 0.08   |
| 1000      | 0       | -3.00  | 1.00   |
| 1200      | 1.43    | -1.42  | 2.58   |
| 1400      | 2.13    | -0.08  | 3.92   |
| 1600      | 3.72    | 1.08   | 5.08   |
| 1800      | 4.92    | 2.11   | 6.11   |
| 2000      | 6.38    | 3.02   | 7.02   |
| 2200      | 6.54    | 3.85   | 7.85   |
| 2500      | 7.27    | 4.96   | 8.96   |
| 2600      | 6.91    | 4.96   | 9.30   |
| 2800      | 6.42    | 4.96   | 9.94   |
| 3000      | 6.43    | 4.96   | 10.54  |
| 3000      | 6.5     | -40.00 | 10.54  |
| 3200      | 5.8     | -40.00 | 9.42   |
| 3400      | 4.2     | -40.00 | 8.37   |
| 3600      | -0.9    | -40.00 | 7.37   |
| 3800      | -10.8   | -40.00 | 6.43   |
| 4000      | -13.2   | -40.00 | 5.54   |
| 4200      | -28.0   | -40.00 | 4.69   |
| 4500      | -28.0   | -40.00 | 3.50   |
| 4800      | -28.0   | -40.00 | 2.38   |
| 5100      | -28.0   | -40.00 | 1.32   |
| 5400      | -28.0   | -40.00 | 0.33   |
| 5700      | -28.0   | -40.00 | -0.61  |
| 5900      | -28.0   | -40.00 | -1.21  |
| 5900      | -28.0   | -40.00 | -24.46 |
| 6100      | -28.0   | -40.00 | -24.46 |
| 6100      | -28.0   | -40.00 | -1.79  |
| 6500      | -28.0   | -40.00 | -2.89  |
| 8000      | -28.0   | -40.00 | -6.50  |
| 10000     | -28.0   | -40.00 | -10.38 |
| 13000     | -28.0   | -40.00 | -14.93 |
| 15000     | -28.0   | -40.00 | -17.42 |
| 15000     | -28.0   | -40.00 | -17.46 |
| 30000     | -28.0   | -40.00 | -17.46 |

