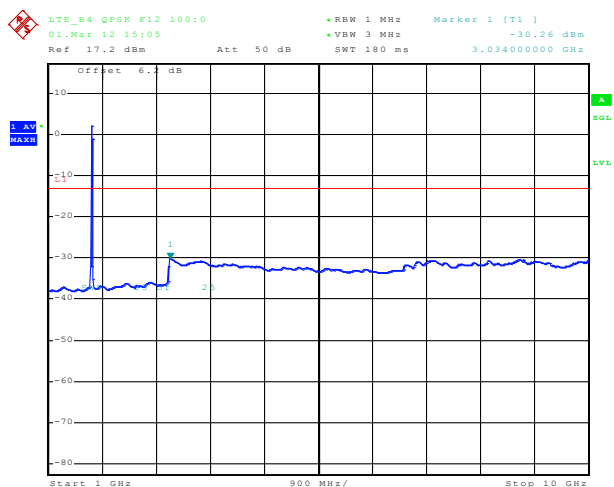


# SIERRA WIRELESS, INC.

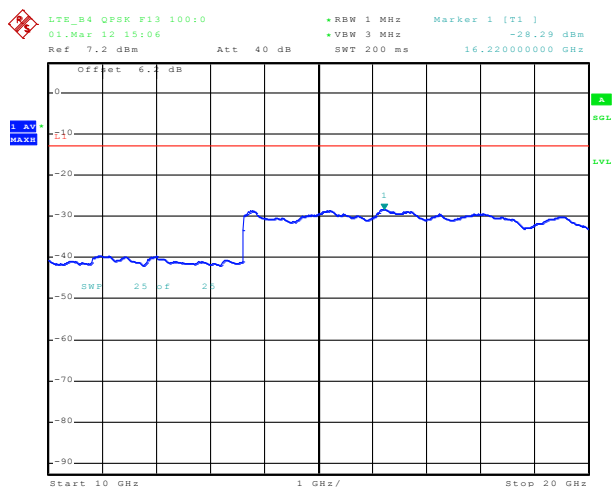
## 6.3.3.131 Out of Band Emissions at Antenna Terminals LTE B4, Mid channel, 1732.5 MHz, 20MHz BW, 100RB, QPSK, 1 GHz to 10 GHz



Date: 1.MAR.2012 15:05:40

Note: The strong emission shown in each case is the carrier signal.

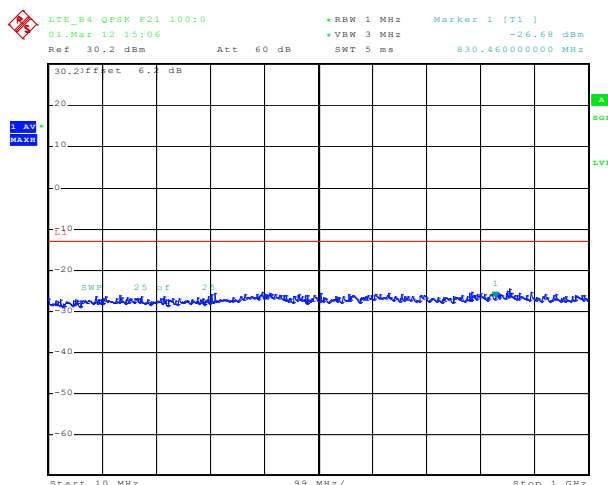
## 6.3.3.132 Out of Band Emissions at Antenna Terminals LTE B4, Mid channel, 1732.5 MHz, 20MHz BW, 100RB, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:06:01

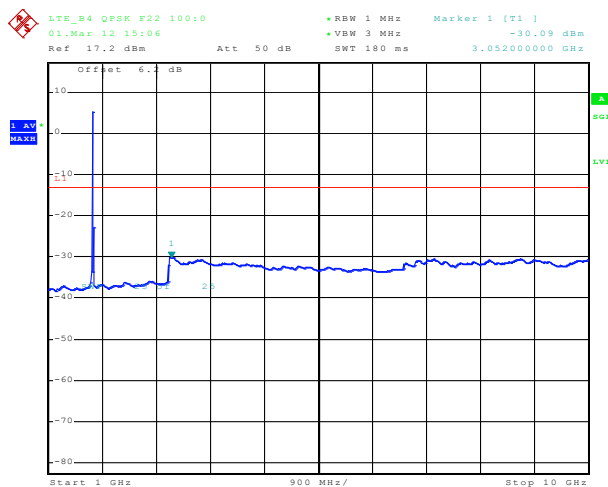
# SIERRA WIRELESS, INC.

### 6.3.3.133 Out of Band Emissions at Antenna Terminals LTE B4, High channel, 1745.0 MHz, 20MHz BW, 100RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:06:18

### 6.3.3.134 Out of Band Emissions at Antenna Terminals LTE B4, High channel, 1745.0 MHz, 20MHz BW, 100RB, QPSK, 1 GHz to 10 GHz

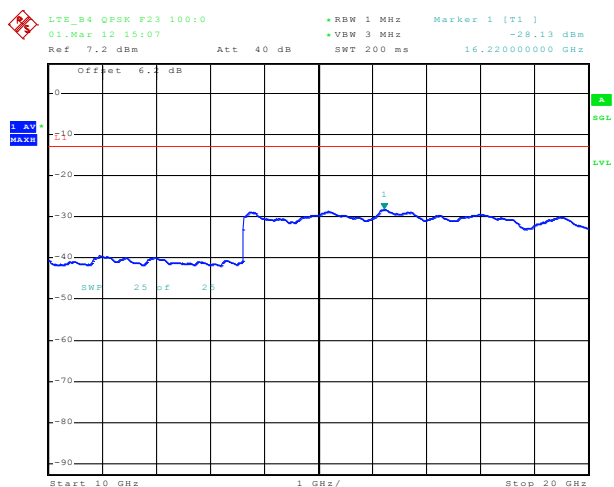


Date: 1.MAR.2012 15:06:47

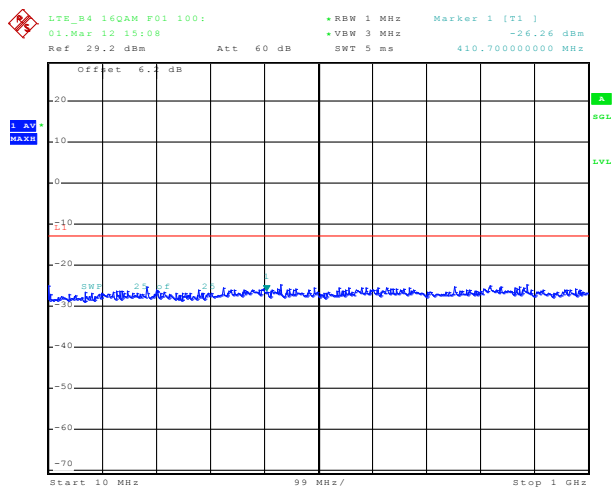
Note: The strong emission shown in each case is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.135 Out of Band Emissions at Antenna Terminals LTE B4, High channel, 1745.0 MHz, 20MHz BW, 100RB, QPSK, 10 GHz to 20 GHz

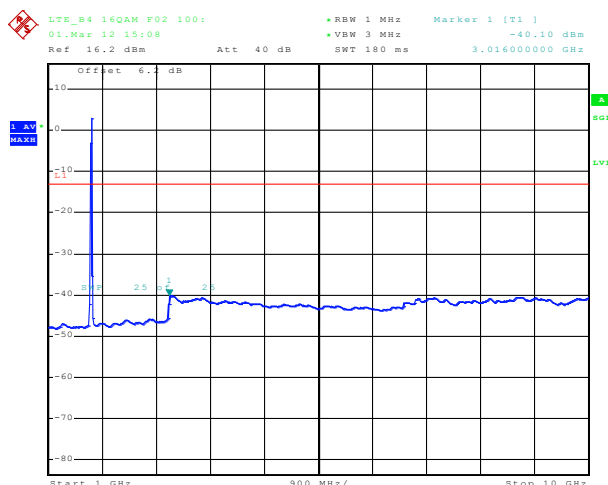


## 6.3.3.136 Out of Band Emissions at Antenna Terminals LTE B4, Low channel, 1720.0 MHz, 20MHz BW, 100RB, 16-QAM, 10MHz to 1 GHz



# SIERRA WIRELESS, INC.

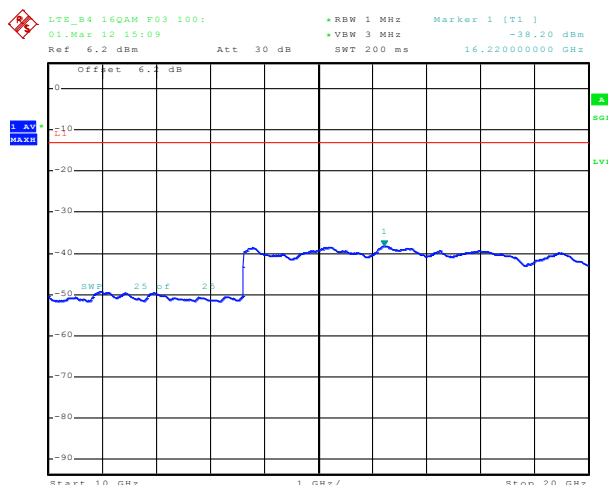
## 6.3.3.137 Out of Band Emissions at Antenna Terminals LTE B4, Low channel, 1720.0 MHz, 20MHz BW, 100RB, 16-QAM, 1 GHz to 10 GHz



Date: 1.MAR.2012 15:08:54

Note: The strong emission shown in each case is the carrier signal.

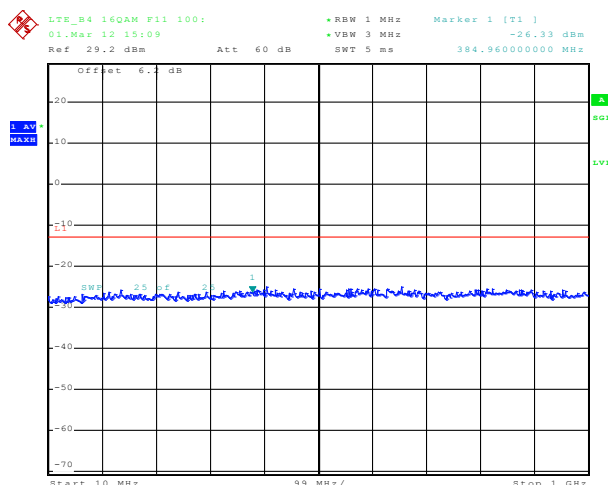
## 6.3.3.138 Out of Band Emissions at Antenna Terminals LTE B4, Low channel, 1720.0 MHz, 20MHz BW, 100RB, 16-QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:09:15

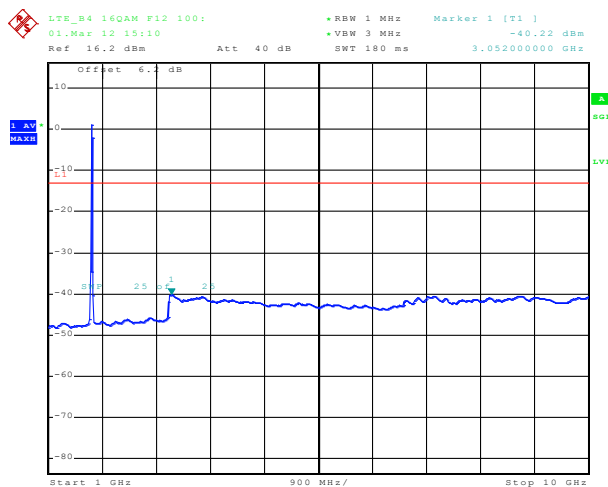
# SIERRA WIRELESS, INC.

### 6.3.3.139 Out of Band Emissions at Antenna Terminals LTE B4, Mid channel, 1732.5 MHz, 20MHz BW, 100RB, 16-QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 15:09:33

### 6.3.3.140 Out of Band Emissions at Antenna Terminals LTE B4, Mid channel, 1732.5 MHz, 20MHz BW, 100RB, 16-QAM, 1 GHz to 10 GHz

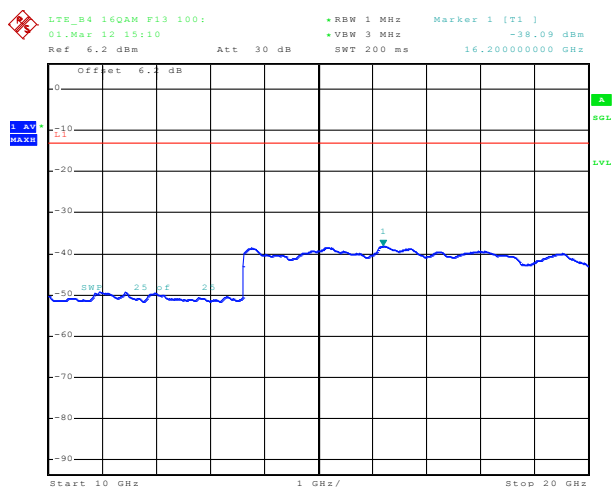


Date: 1.MAR.2012 15:10:01

Note: The strong emission shown in each case is the carrier signal.

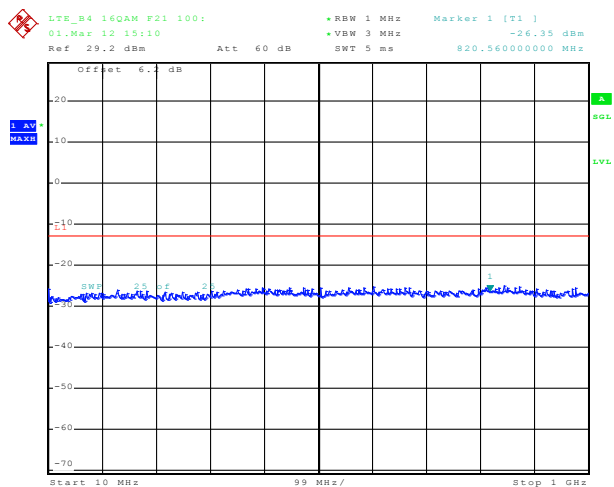
# SIERRA WIRELESS, INC.

## 6.3.3.141 Out of Band Emissions at Antenna Terminals LTE B4, Mid channel, 1732.5 MHz, 20MHz BW, 100RB, 16-QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:10:23

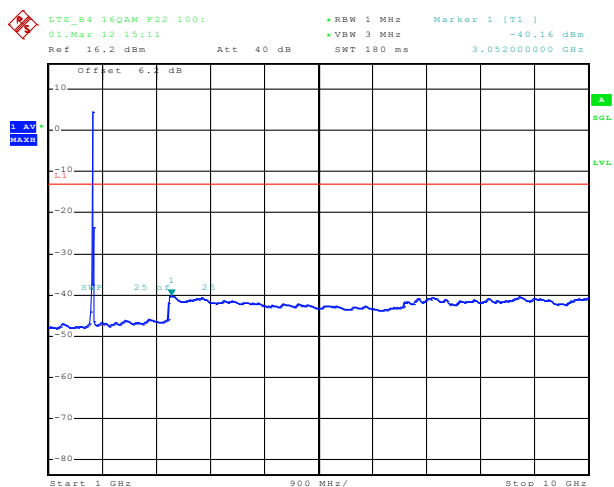
## 6.3.3.142 Out of Band Emissions at Antenna Terminals LTE B4, High channel, 1745.0 MHz, 20MHz BW, 100RB, 16-QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 15:10:40

# SIERRA WIRELESS, INC.

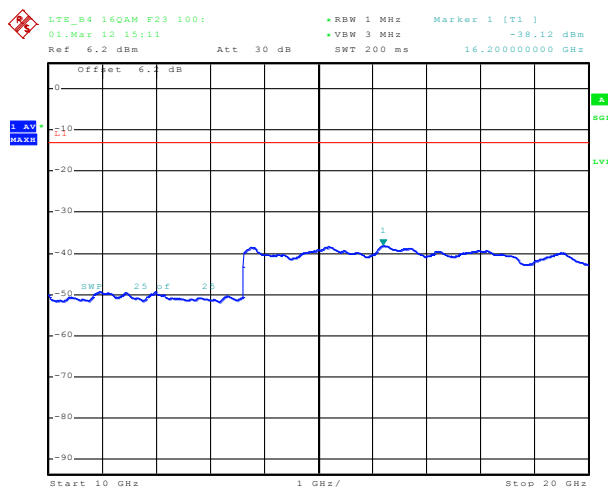
## 6.3.3.143 Out of Band Emissions at Antenna Terminals LTE B4, High channel, 1745.0 MHz, 20MHz BW, 100RB, 16-QAM, 1 GHz to 10 GHz



Date: 1.MAR.2012 15:11:09

Note: The strong emission shown in each case is the carrier signal.

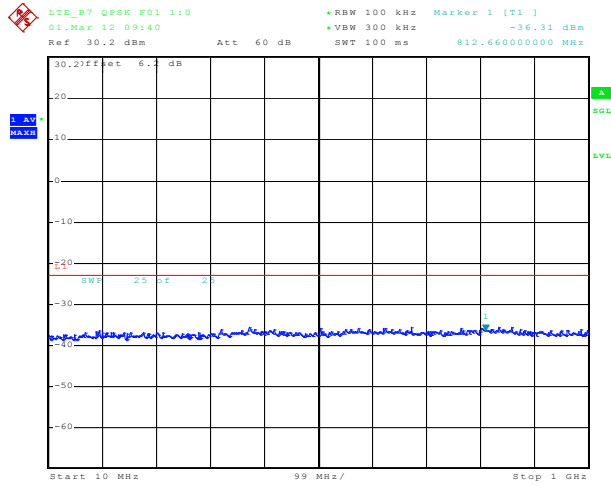
## 6.3.3.144 Out of Band Emissions at Antenna Terminals LTE B4, High channel, 1745.0 MHz, 20MHz BW, 100RB, 16-QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:11:30

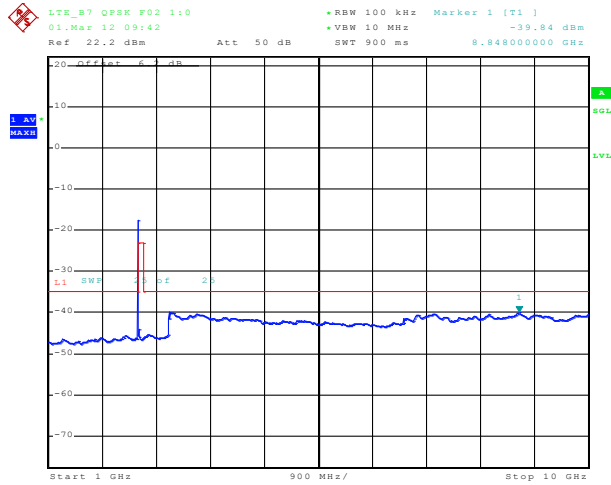
**SIERRA WIRELESS, INC.**

**6.3.3.145**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 10MHz to 1 GHz*



Date: 1.MAR.2012 09:40:47

**6.3.3.146**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 1GHz to 10 GHz*



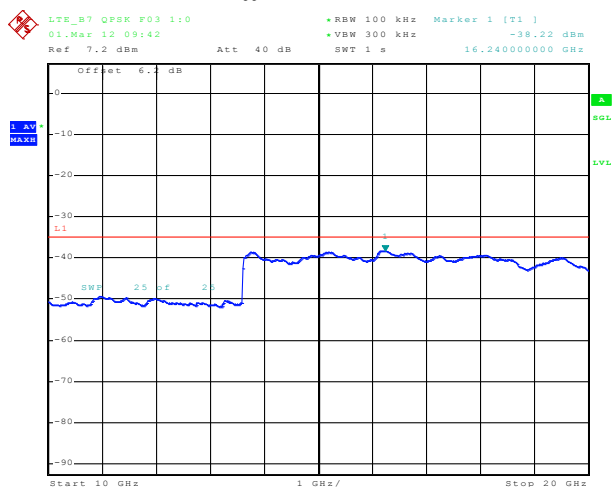
Date: 1.MAR.2012 09:42:18

**Note:** The strong emission shown is the carrier signal.

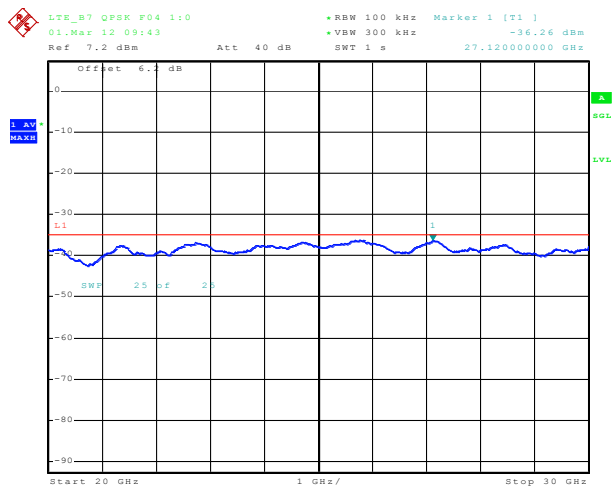


# SIERRA WIRELESS, INC.

## 6.3.3.147 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 10GHz to 20 GHz

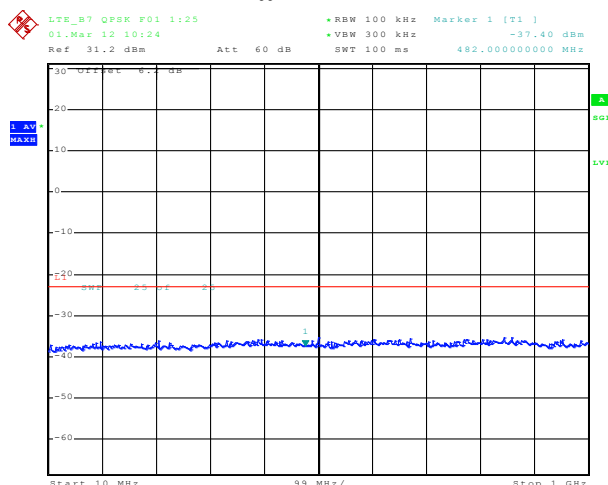


## 6.3.3.148 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 20GHz to 30 GHz



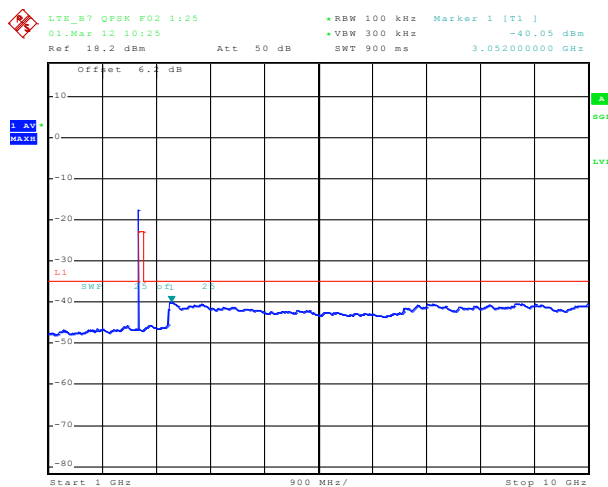
# SIERRA WIRELESS, INC.

## 6.3.3.149 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 10:24:34

## 6.3.3.150 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 1GHz to 10 GHz

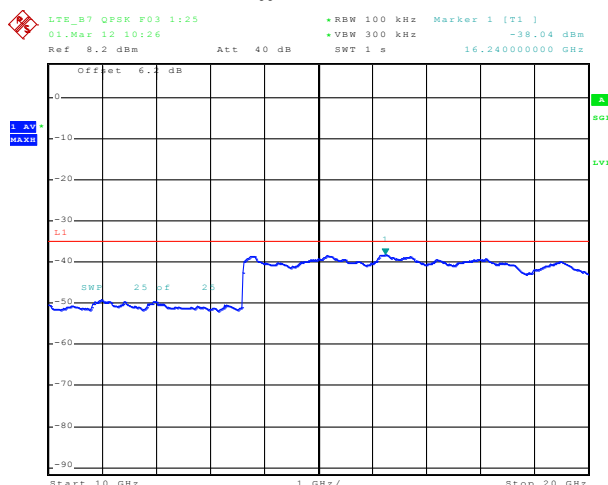


Date: 1.MAR.2012 10:25:23

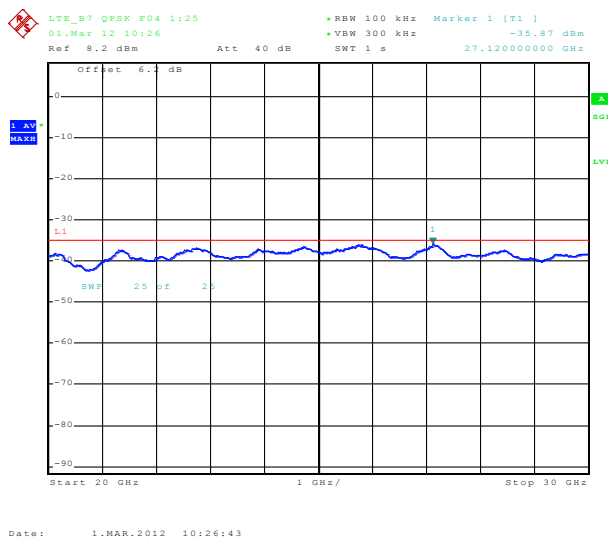
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.151 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 10GHz to 20 GHz

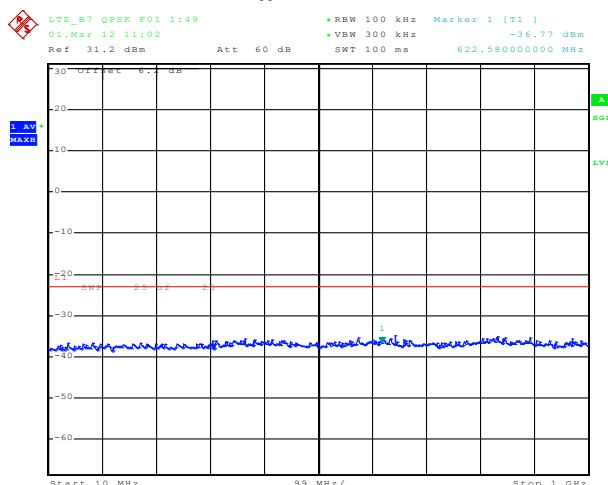


## 6.3.3.152 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 20GHz to 30 GHz



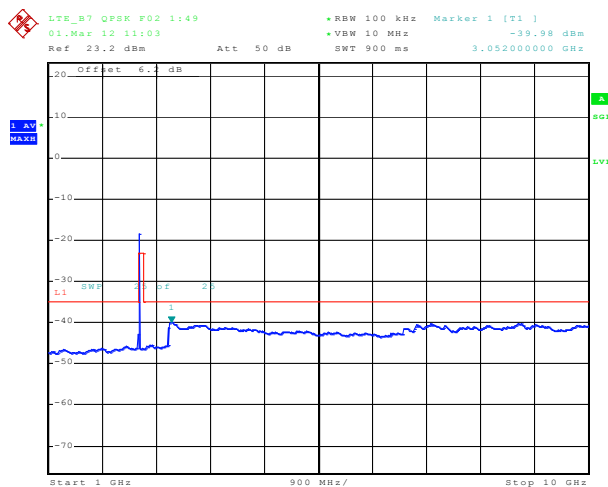
# SIERRA WIRELESS, INC.

## 6.3.3.153 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 11:02:08

## 6.3.3.154 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 1GHz to 10 GHz

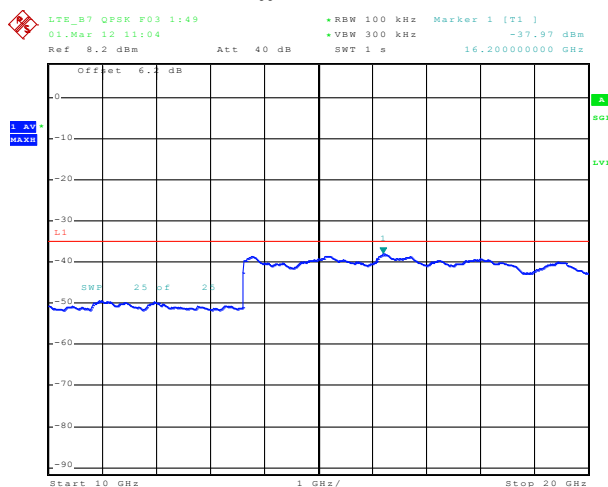


Date: 1.MAR.2012 11:03:40

Note: The strong emission shown is the carrier signal.

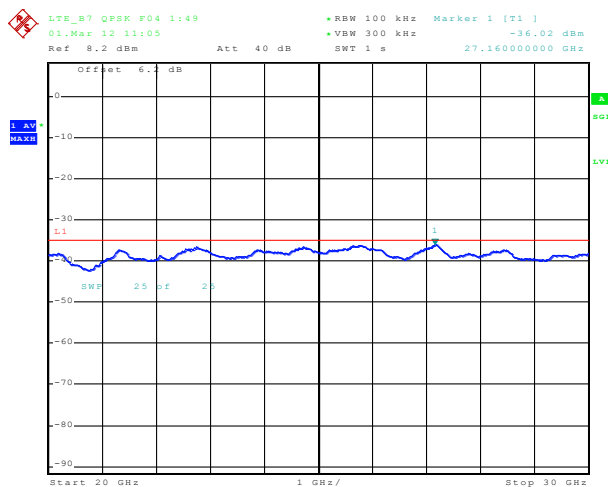
# SIERRA WIRELESS, INC.

## 6.3.3.155 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 10GHz to 20 GHz



Date: 1.MAR.2012 11:04:22

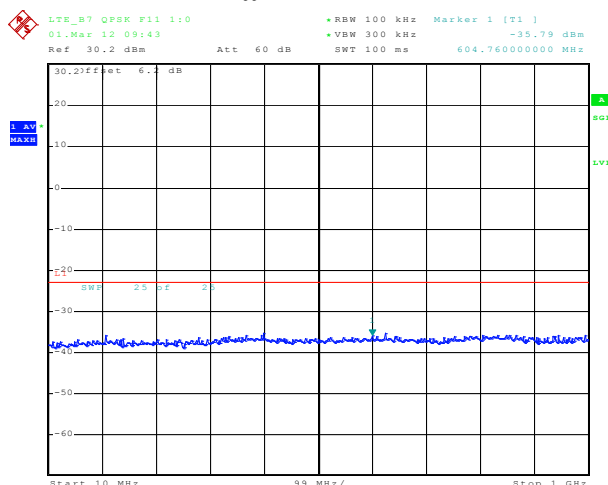
## 6.3.3.156 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 20GHz to 30 GHz



Date: 1.MAR.2012 11:05:00

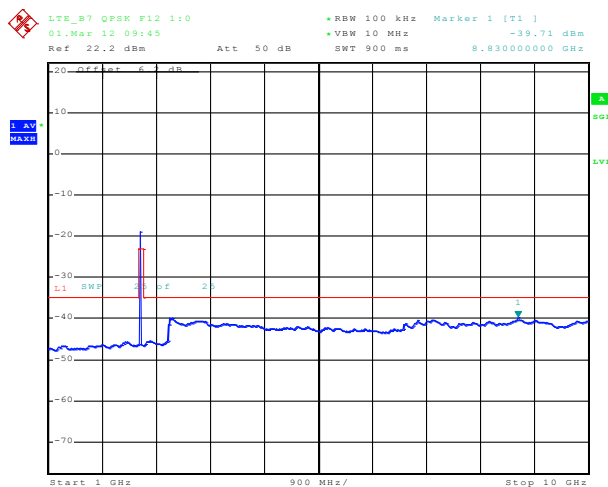
# SIERRA WIRELESS, INC.

### 6.3.3.157 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 0RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 09:43:55

### 6.3.3.158 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 0RB Offset, QPSK, 1GHz to 10 GHz

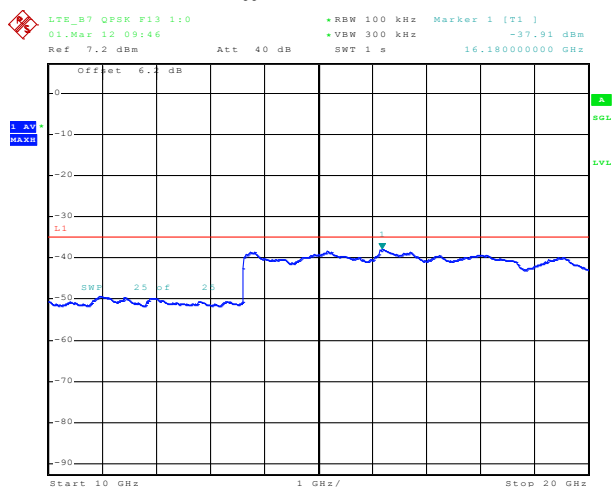


Date: 1.MAR.2012 09:45:26

Note: The strong emission shown is the carrier signal.

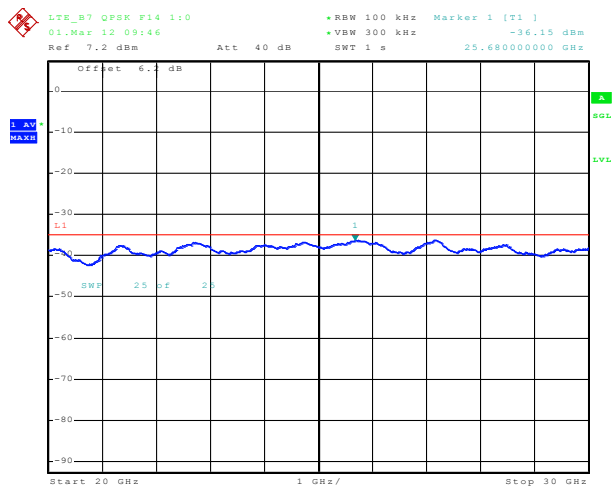
# SIERRA WIRELESS, INC.

## 6.3.3.159 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 09:46:08

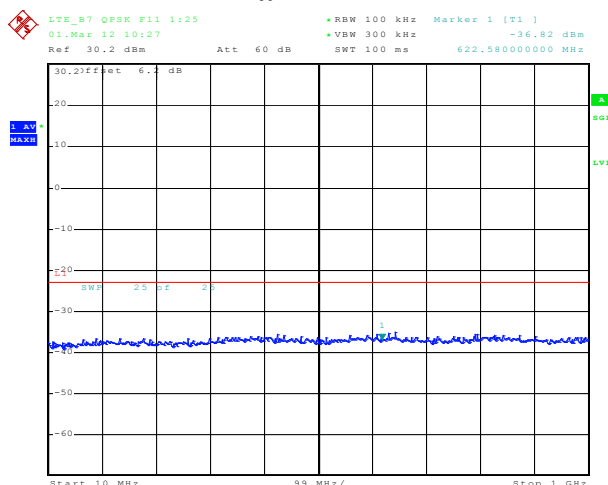
## 6.3.3.160 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 09:46:47

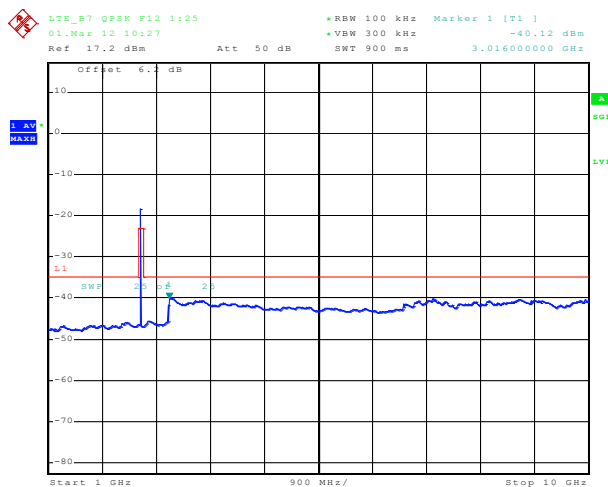
# SIERRA WIRELESS, INC.

## 6.3.3.161 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 10:27:01

## 6.3.3.162 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 1GHz to 10 GHz



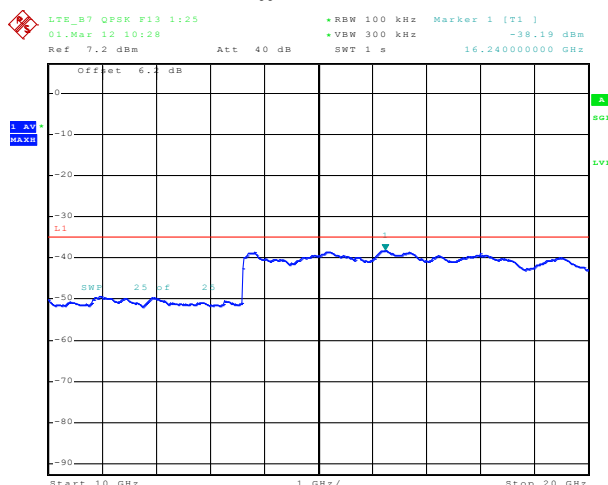
Date: 1.MAR.2012 10:27:49

Note: The strong emission shown is the carrier signal.



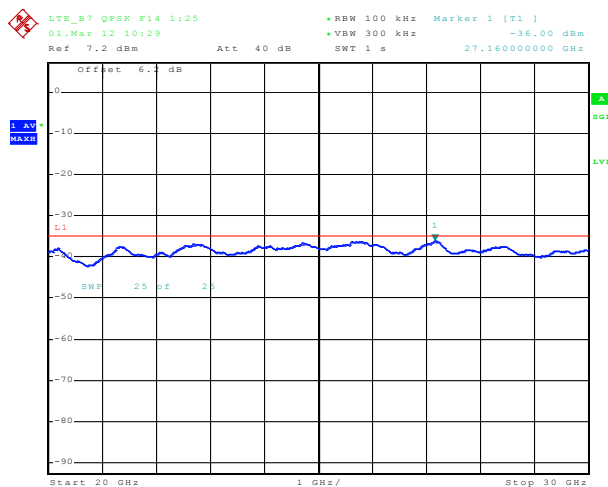
# SIERRA WIRELESS, INC.

### 6.3.3.163 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 10GHz to 20 GHz



Date: 1.MAR.2012 10:28:32

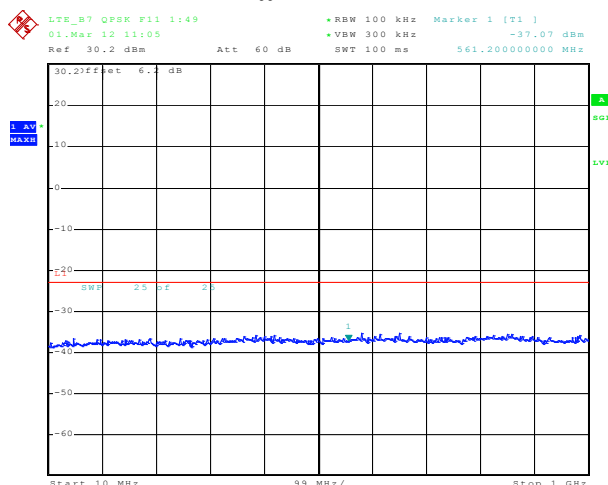
### 6.3.3.164 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 20GHz to 30 GHz



Date: 1.MAR.2012 10:29:10

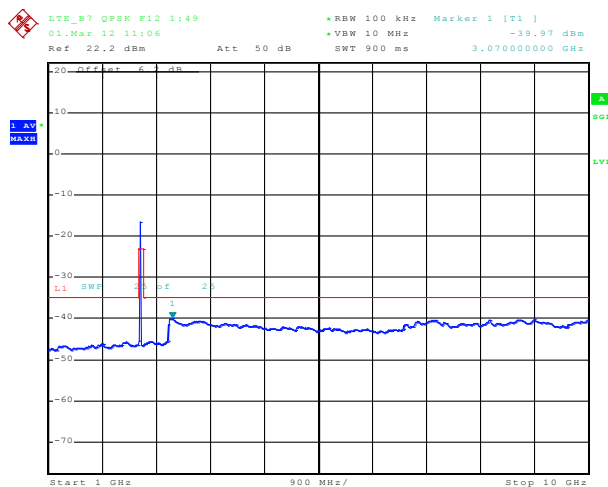
# SIERRA WIRELESS, INC.

### 6.3.3.165 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 11:05:17

### 6.3.3.166 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 1GHz to 10 GHz

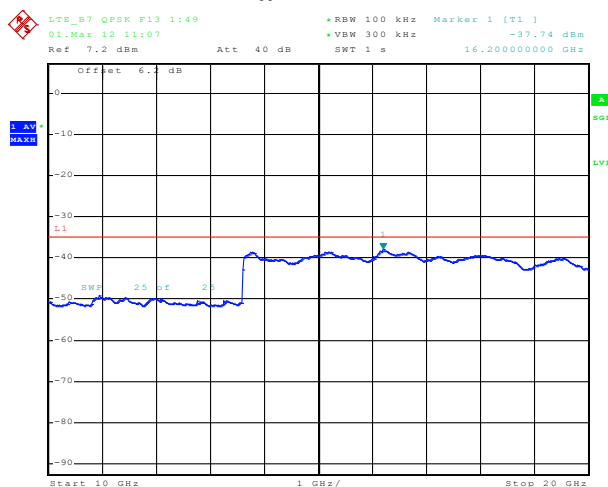


Date: 1.MAR.2012 11:06:48

Note: The strong emission shown is the carrier signal.

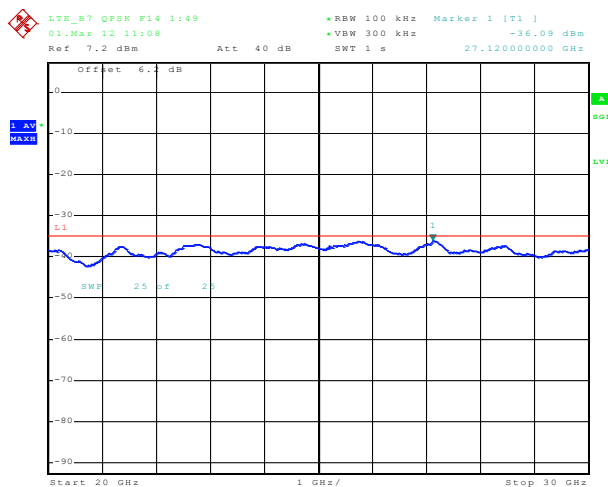
# SIERRA WIRELESS, INC.

## 6.3.3.167 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 10GHz to 20 GHz



Date: 1.MAR.2012 11:07:30

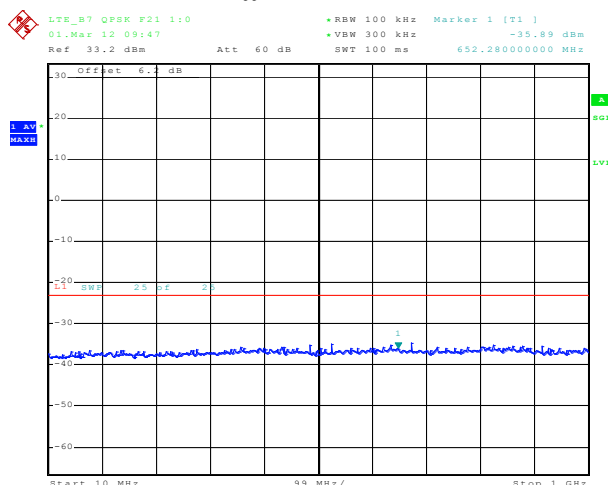
## 6.3.3.168 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 20GHz to 30 GHz



Date: 1.MAR.2012 11:08:09

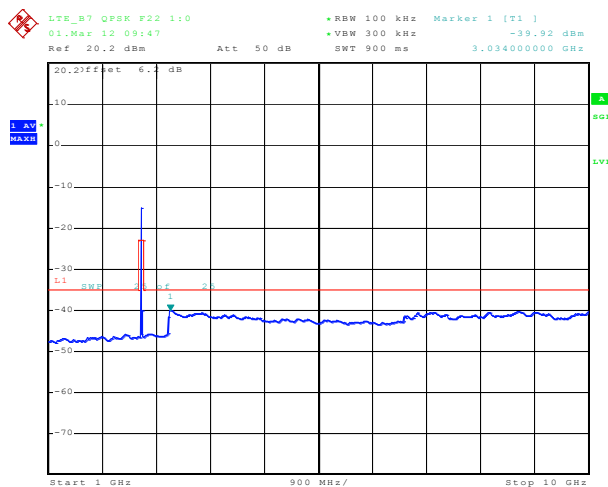
# SIERRA WIRELESS, INC.

### 6.3.3.169 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 10 MHz to 1 GHz



Date: 1.MAR.2012 09:47:04

### 6.3.3.170 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 1 GHz to 10 GHz

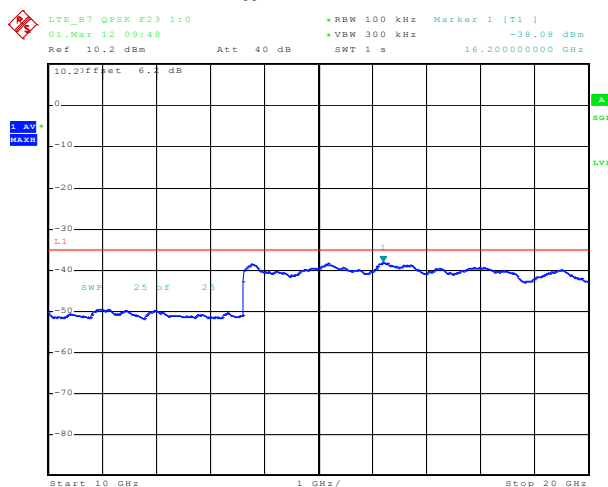


Date: 1.MAR.2012 09:47:53

Note: The strong emission shown is the carrier signal.

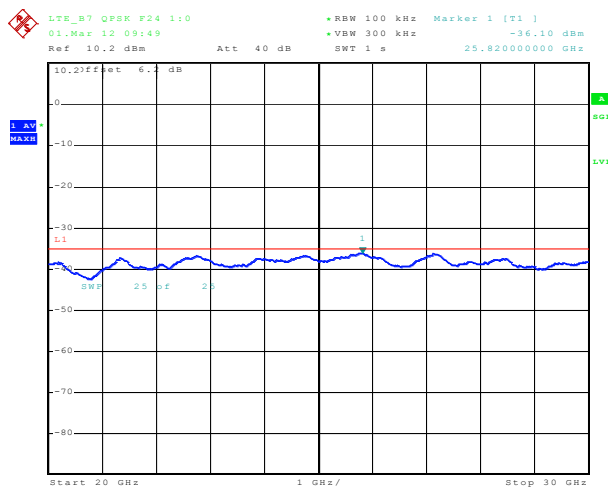
# SIERRA WIRELESS, INC.

## 6.3.3.171 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 09:48:36

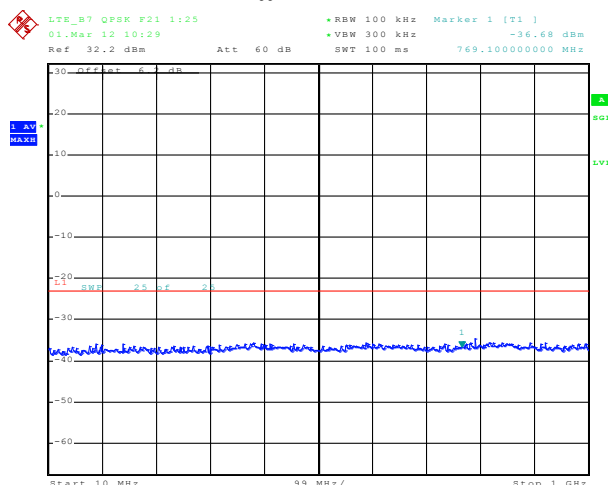
## 6.3.3.172 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 09:49:14

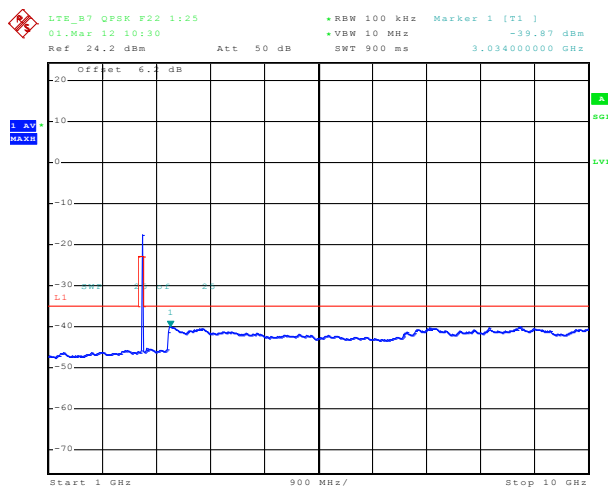
# SIERRA WIRELESS, INC.

## 6.3.3.173 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 10:29:27

## 6.3.3.174 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 1GHz to 10 GHz

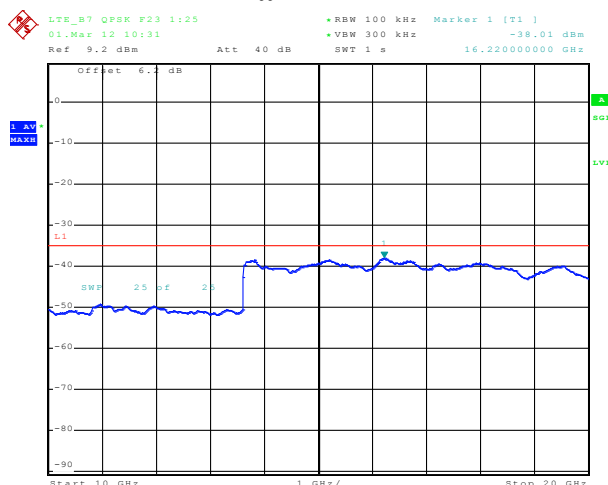


Date: 1.MAR.2012 10:30:58

Note: The strong emission shown is the carrier signal.

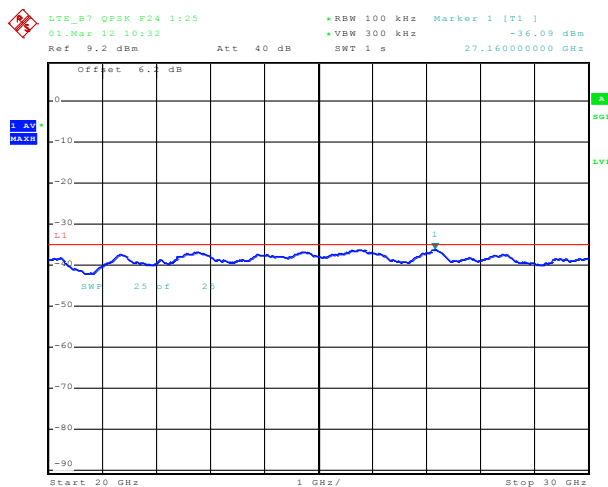
# SIERRA WIRELESS, INC.

## 6.3.3.175 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 10GHz to 20 GHz



Date: 1.MAR.2012 10:31:40

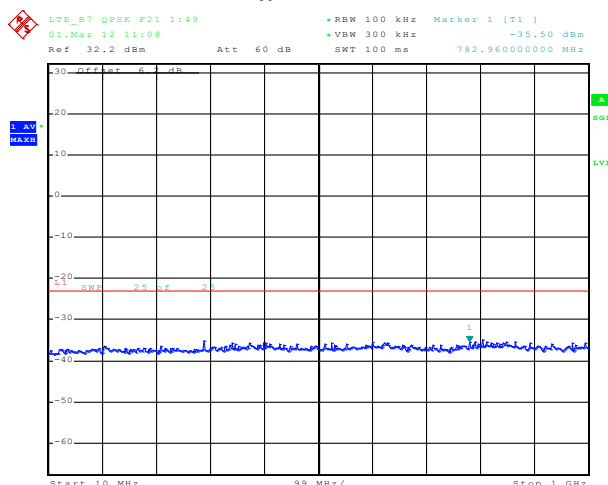
## 6.3.3.176 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, QPSK, 20GHz to 30 GHz



Date: 1.MAR.2012 10:32:19

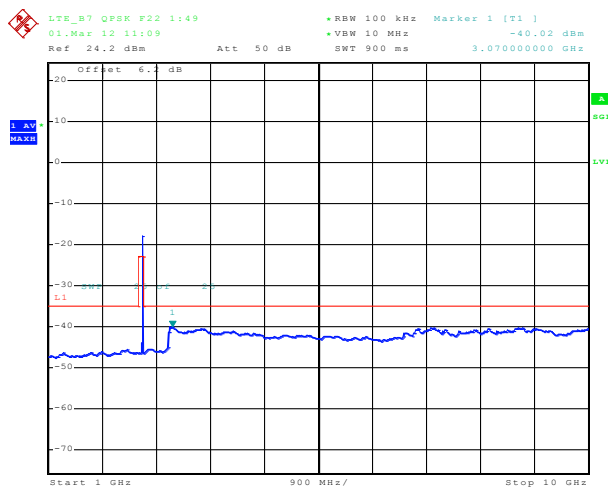
# SIERRA WIRELESS, INC.

## 6.3.3.177 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 11:08:26

## 6.3.3.178 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 1GHz to 10 GHz



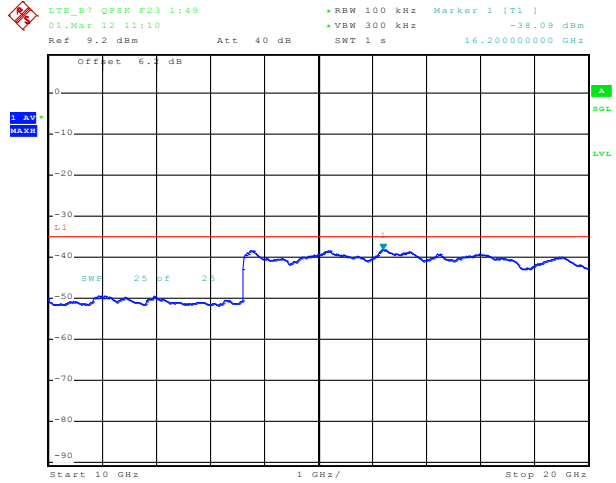
Date: 1.MAR.2012 11:09:57

Note: The strong emission shown is the carrier signal.



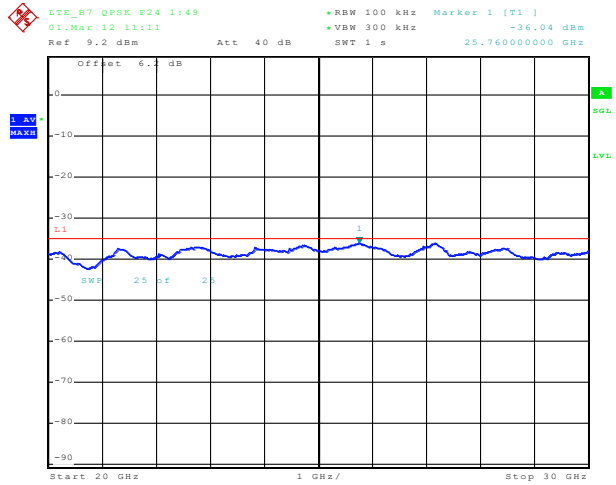
SIERRA WIRELESS, INC.

6.3.3.179 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 10GHz to 20 GHz



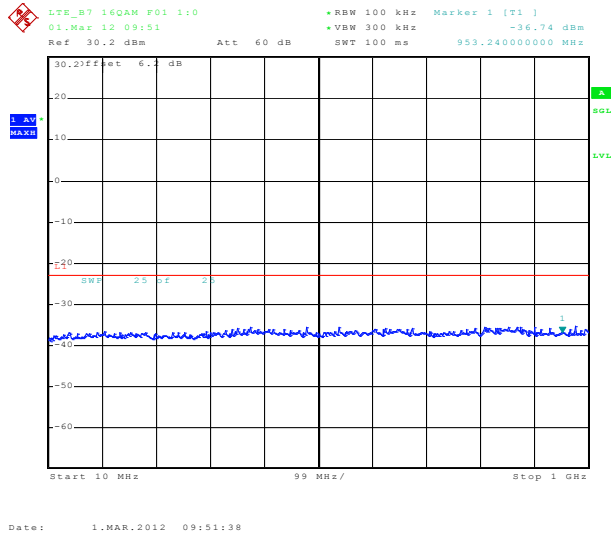
Date: 1.MAR.2012 11:10:39

6.3.3.180 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, QPSK, 20GHz to 30 GHz

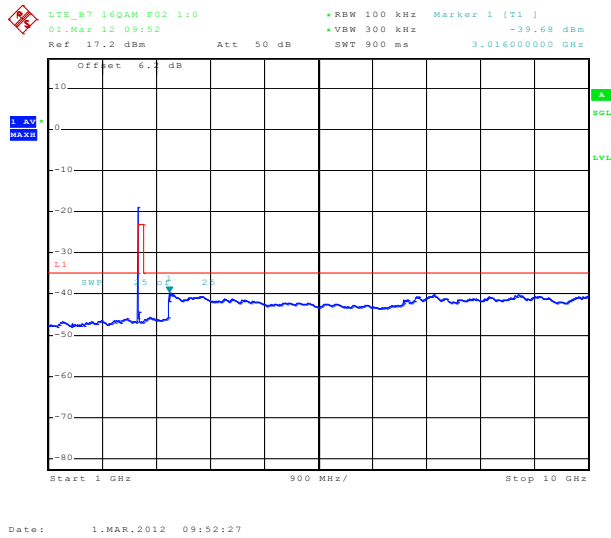


Date: 1.MAR.2012 11:11:18

**6.3.3.181**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 10MHz to 1 GHz*



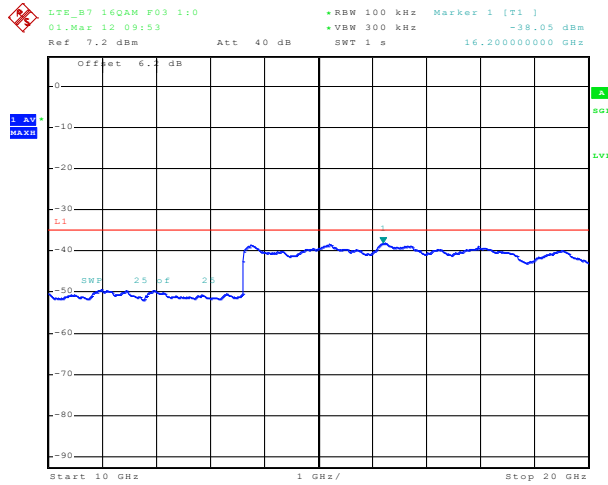
**6.3.3.182**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 1GHz to 10 GHz*



**Note:** The strong emission shown is the carrier signal.

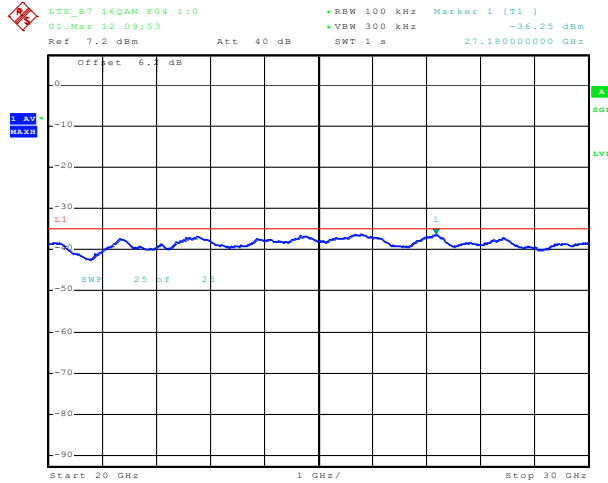
# SIERRA WIRELESS, INC.

## 6.3.3.183 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 09:53:09

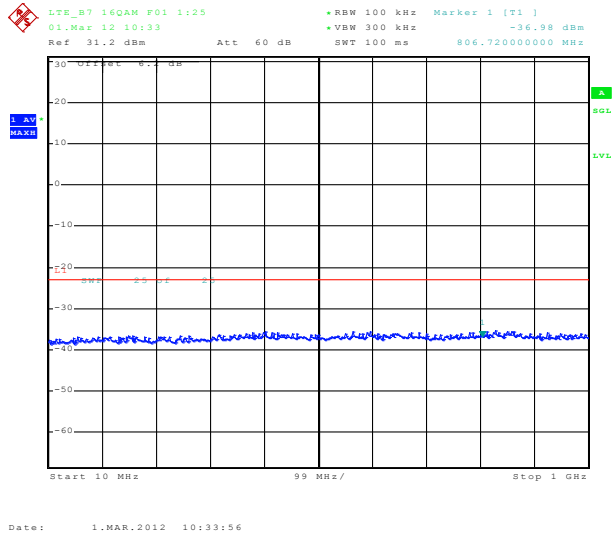
## 6.3.3.184 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 20 GHz to 30 GHz



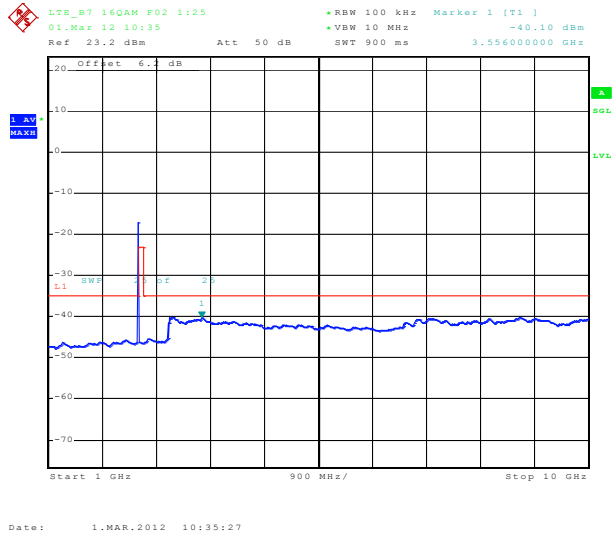
Date: 1.MAR.2012 09:53:47

**SIERRA WIRELESS, INC.**

**6.3.3.185**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 10MHz to 1 GHz*



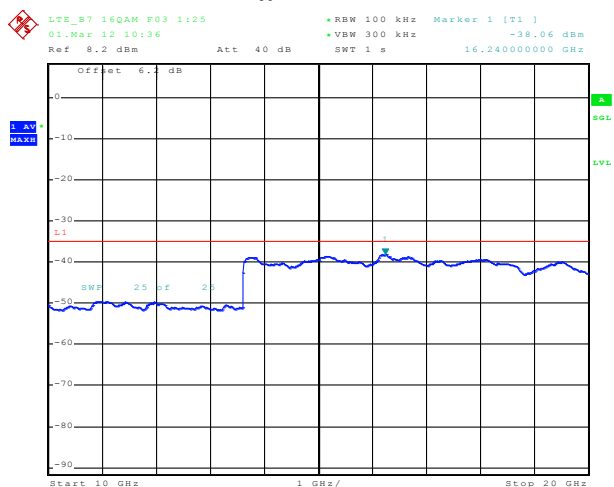
**6.3.3.186**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 1GHz to 10 GHz*



**Note:** The strong emission shown is the carrier signal.

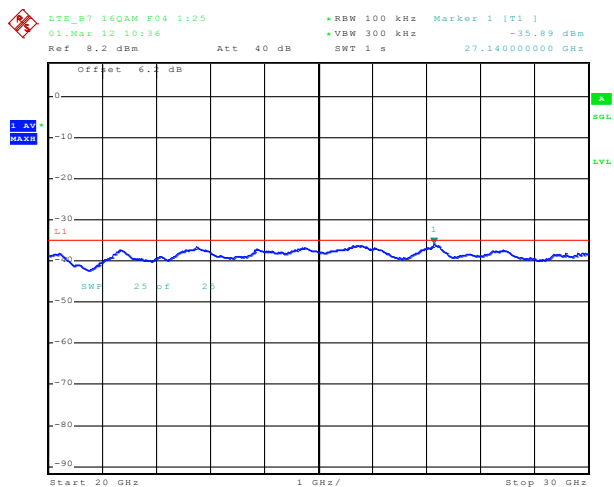
# SIERRA WIRELESS, INC.

## 6.3.3.187 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 10GHz to 20 GHz



Date: 1.MAR.2012 10:36:09

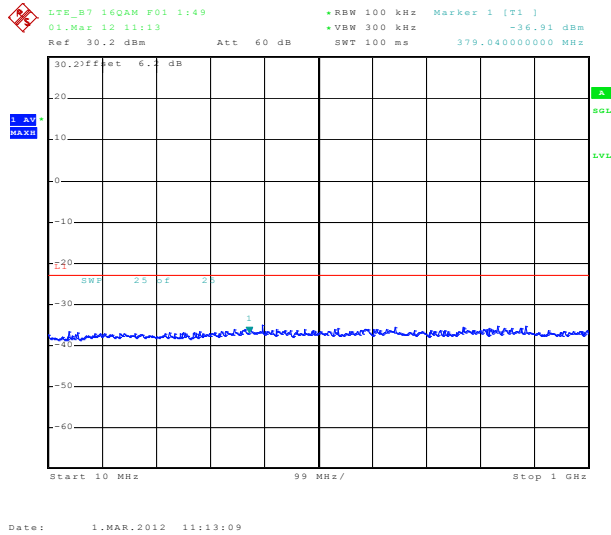
## 6.3.3.188 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 20GHz to 30 GHz



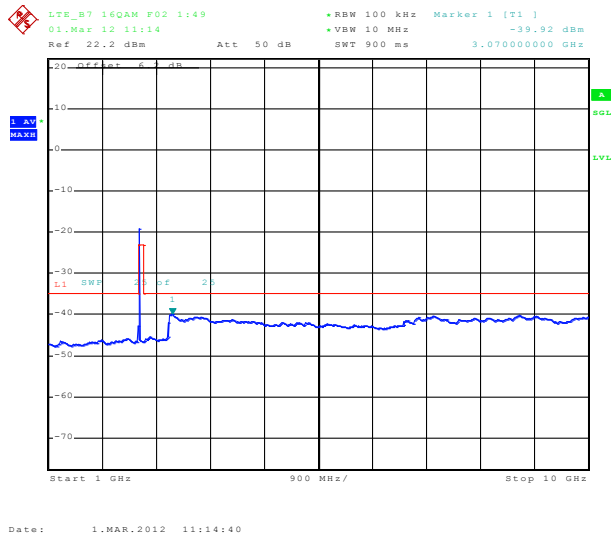
Date: 1.MAR.2012 10:36:48

SIERRA WIRELESS, INC.

6.3.3.189 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 10MHz to 1 GHz



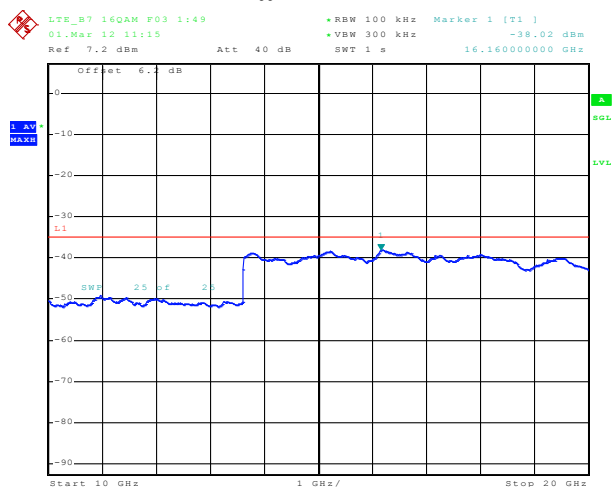
6.3.3.190 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 1GHz to 10 GHz



Note: The strong emission shown is the carrier signal.

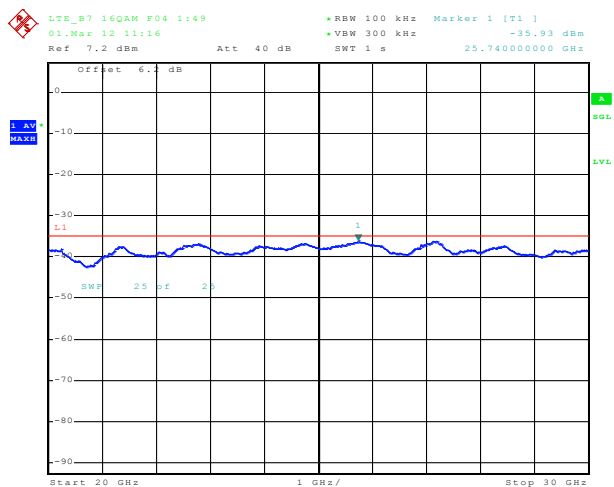
# SIERRA WIRELESS, INC.

## 6.3.3.191 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 10GHz to 20 GHz



Date: 1.MAR.2012 11:15:22

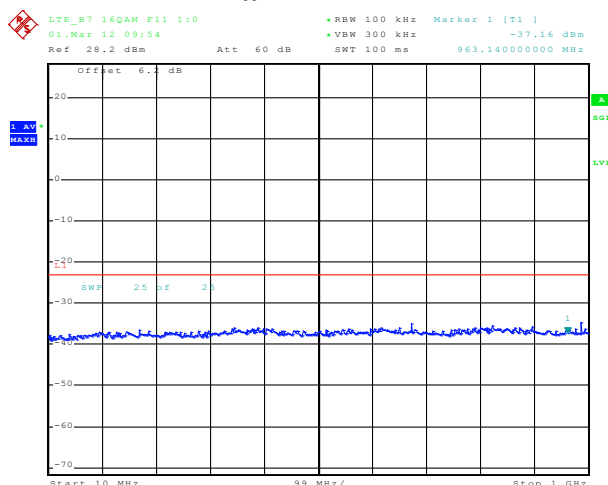
## 6.3.3.192 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 20GHz to 30 GHz



Date: 1.MAR.2012 11:16:01

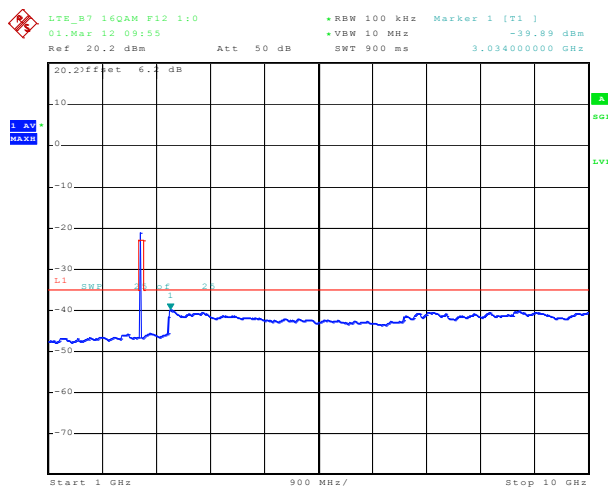
# SIERRA WIRELESS, INC.

## 6.3.3.193 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 09:54:04

## 6.3.3.194 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 1 GHz to 10 GHz



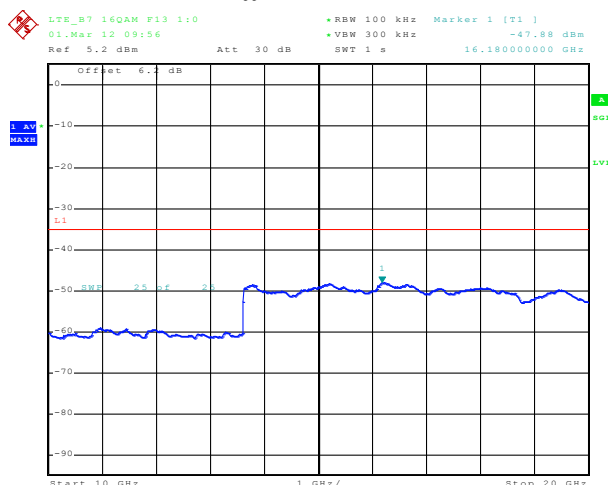
Date: 1.MAR.2012 09:55:36

Note: The strong emission shown is the carrier signal.



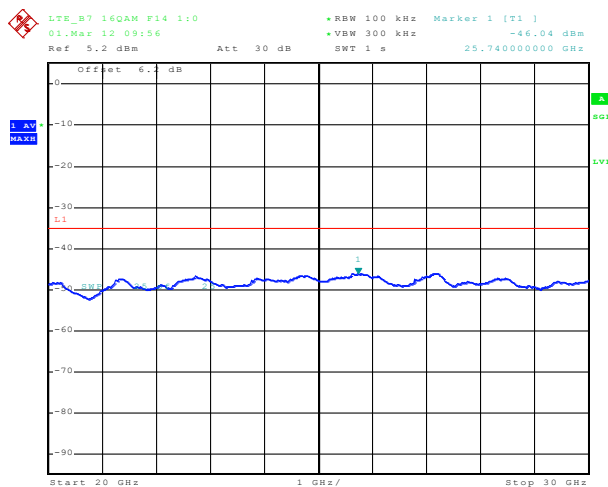
# SIERRA WIRELESS, INC.

## 6.3.3.195 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 09:56:18

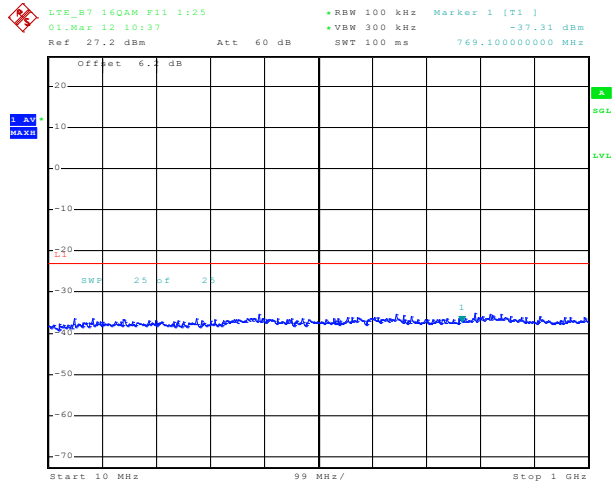
## 6.3.3.196 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 09:56:56

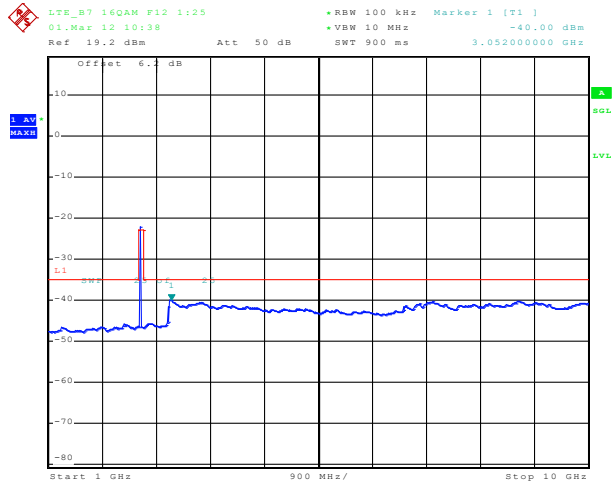
SIERRA WIRELESS, INC.

6.3.3.197 *Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 10MHz to 1 GHz*



Date: 1.MAR.2012 10:37:05

6.3.3.198 *Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 1GHz to 10 GHz*

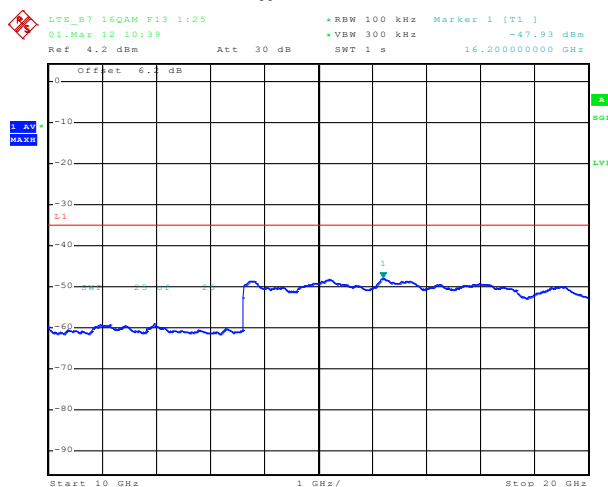


Date: 1.MAR.2012 10:38:36

Note: The strong emission shown is the carrier signal.

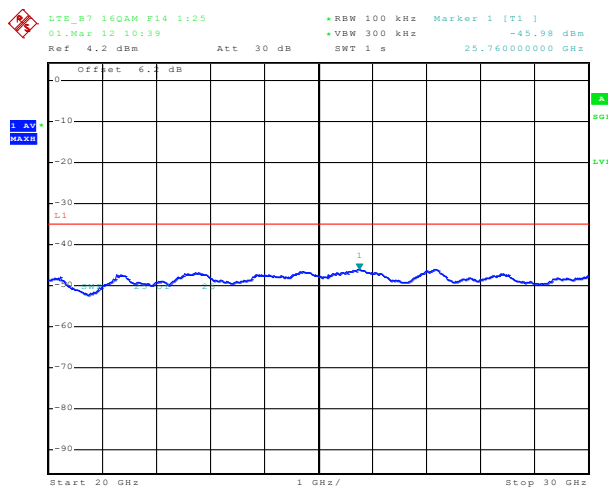
# SIERRA WIRELESS, INC.

## 6.3.3.199 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 10GHz to 20 GHz



Date: 1.MAR.2012 10:39:18

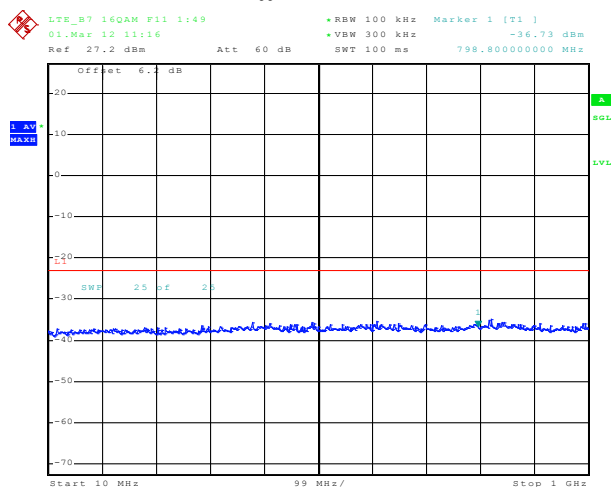
## 6.3.3.200 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 20GHz to 30 GHz



Date: 1.MAR.2012 10:39:57

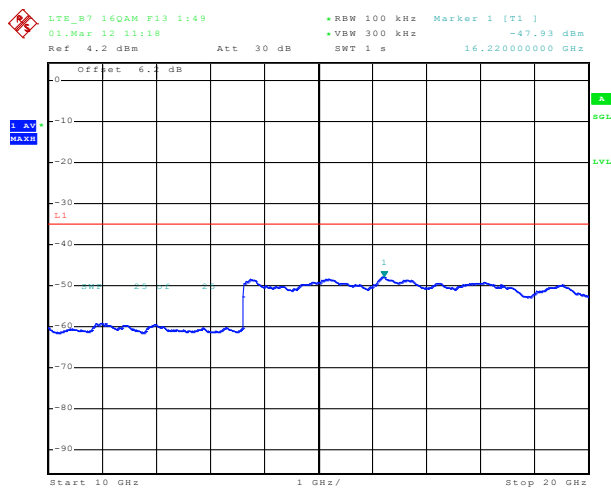
# SIERRA WIRELESS, INC.

## 6.3.3.201 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 11:16:18

## 6.3.3.202 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 1GHz to 10 GHz

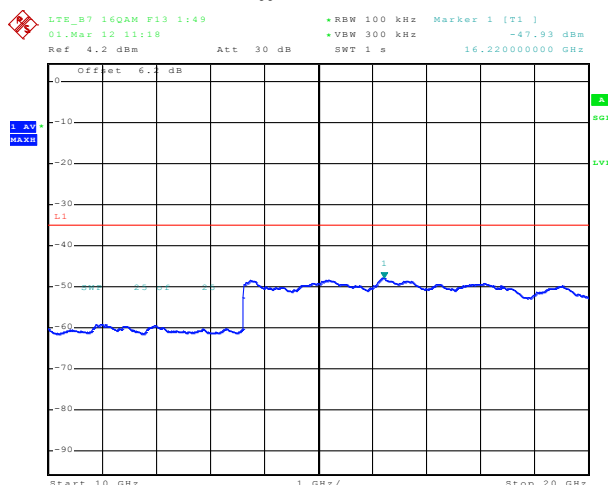


Date: 1.MAR.2012 11:18:31

Note: The strong emission shown is the carrier signal.

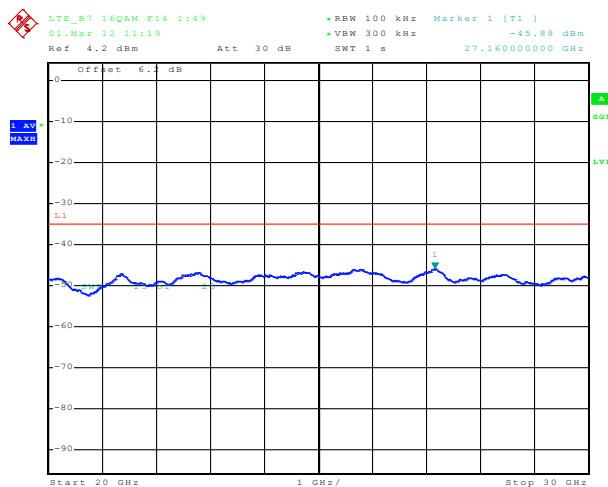
# SIERRA WIRELESS, INC.

## 6.3.3.203 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 10GHz to 20 GHz



Date: 1.MAR.2012 11:18:31

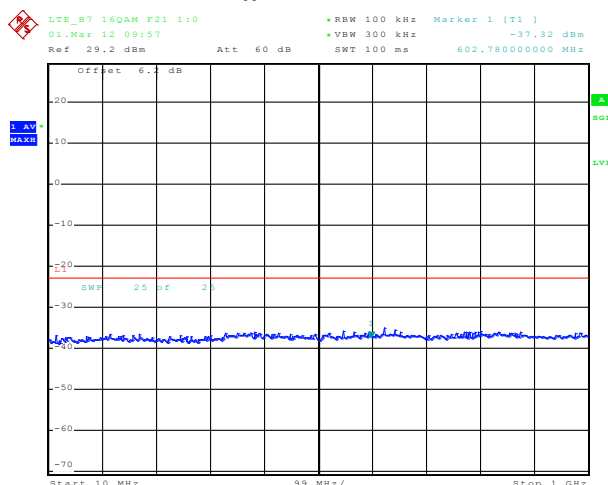
## 6.3.3.204 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 20GHz to 30 GHz



Date: 1.MAR.2012 11:19:10

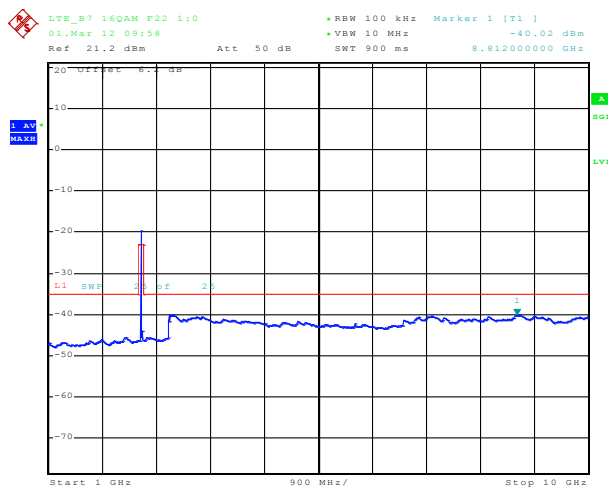
# SIERRA WIRELESS, INC.

## 6.3.3.205 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 09:57:13

## 6.3.3.206 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 1GHz to 10 GHz

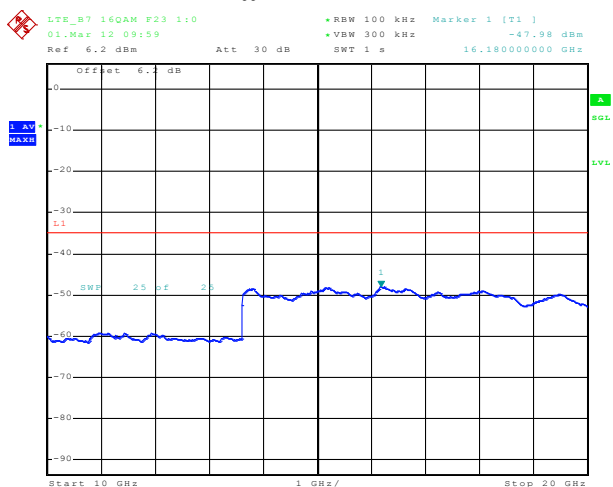


Date: 1.MAR.2012 09:58:44

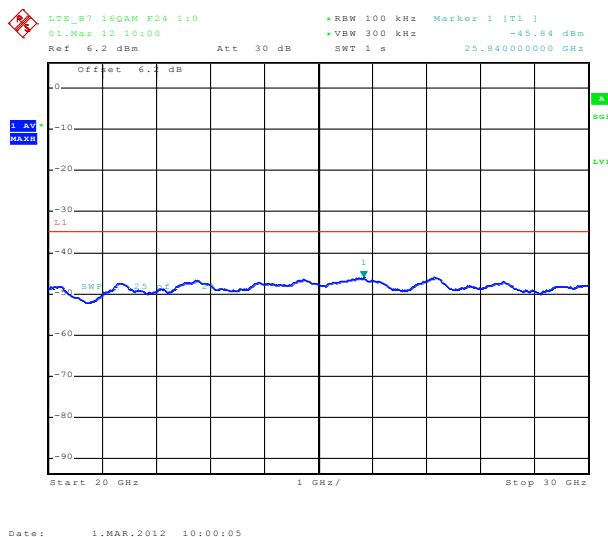
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.207 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 10GHz to 20 GHz

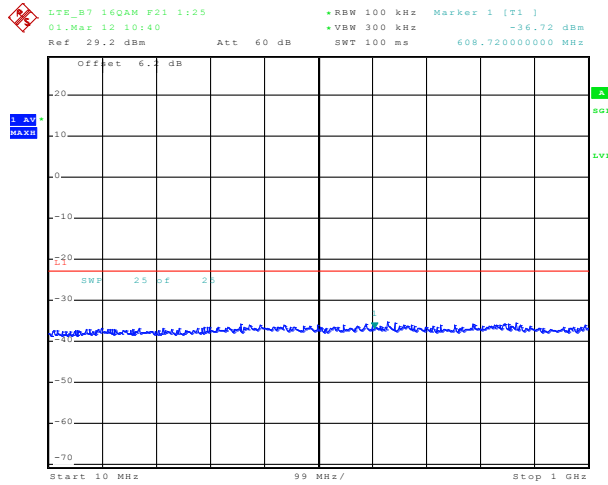


## 6.3.3.208 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, ORB Offset, 16QAM, 20GHz to 30 GHz



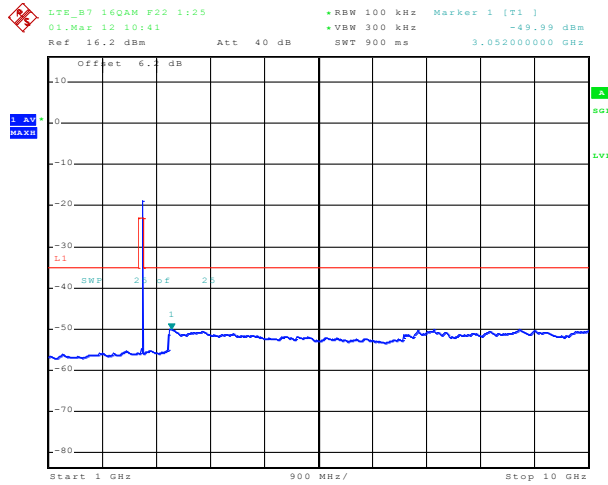
# SIERRA WIRELESS, INC.

## 6.3.3.209 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 10:40:14

## 6.3.3.210 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 1GHz to 10 GHz



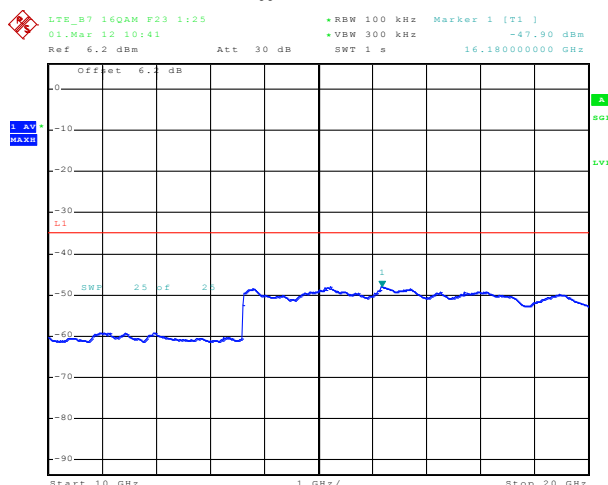
Date: 1.MAR.2012 10:41:02

Note: The strong emission shown is the carrier signal.



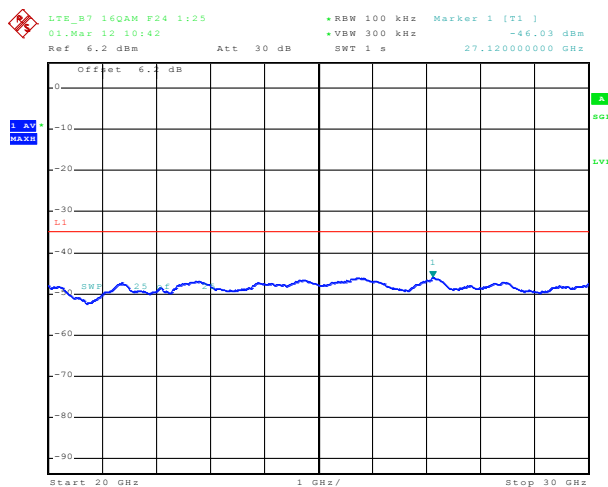
# SIERRA WIRELESS, INC.

## 6.3.3.211 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 10GHz to 20 GHz



Date: 1.MAR.2012 10:41:44

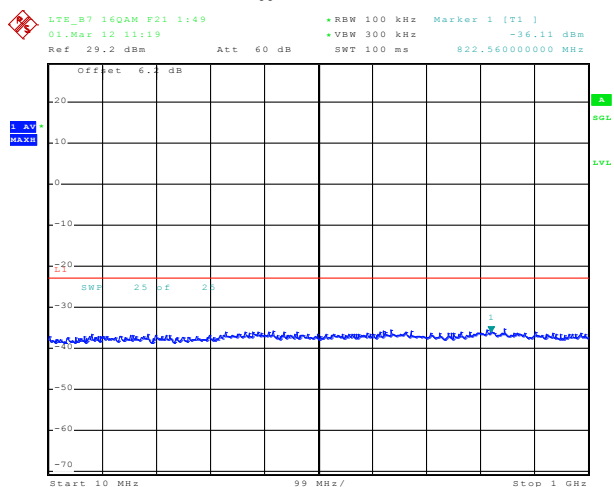
## 6.3.3.212 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 25RB Offset, 16QAM, 20GHz to 30 GHz



Date: 1.MAR.2012 10:42:23

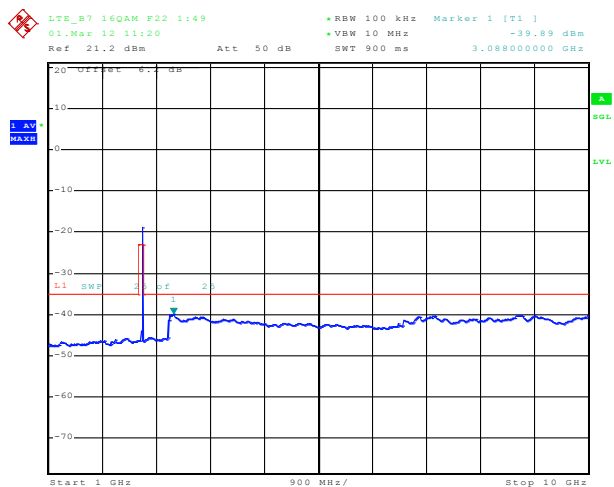
# SIERRA WIRELESS, INC.

### 6.3.3.213 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 11:19:27

### 6.3.3.214 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 1GHz to 10 GHz

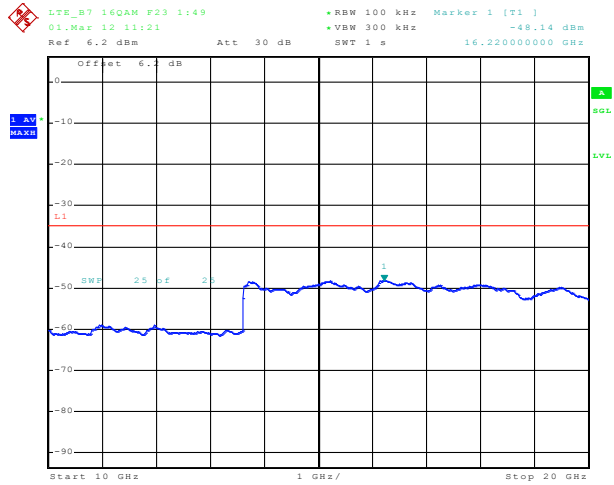


Date: 1.MAR.2012 11:20:58

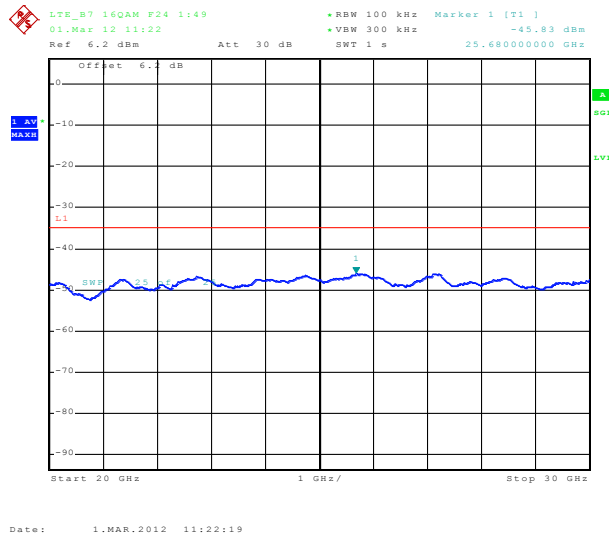
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

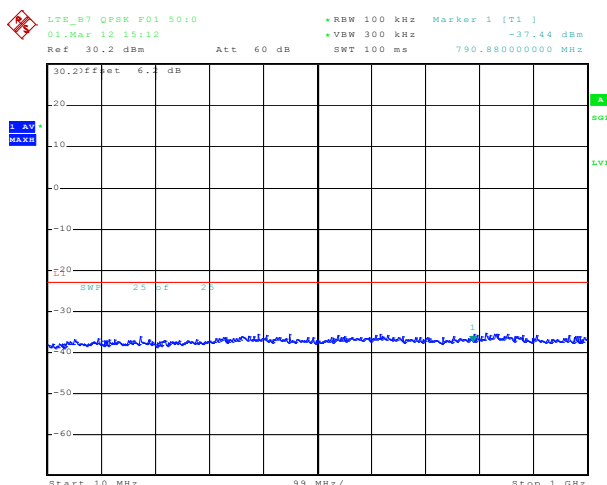
### 6.3.3.215 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 10GHz to 20 GHz



### 6.3.3.216 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 1RB, 49RB Offset, 16QAM, 20GHz to 30 GHz

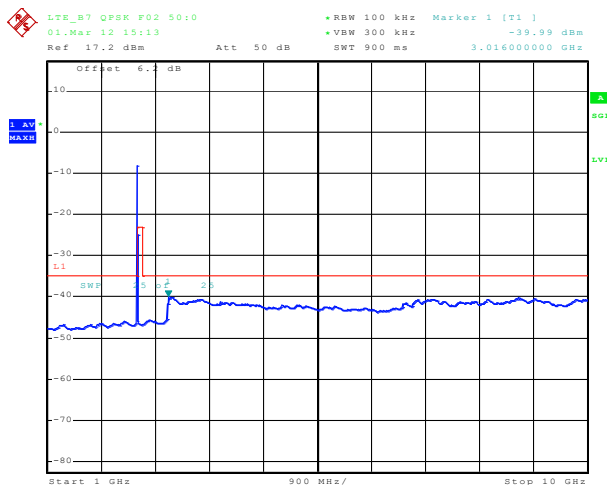


6.3.3.217 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:12:45

6.3.3.218 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, QPSK, 1 GHz to 10 GHz

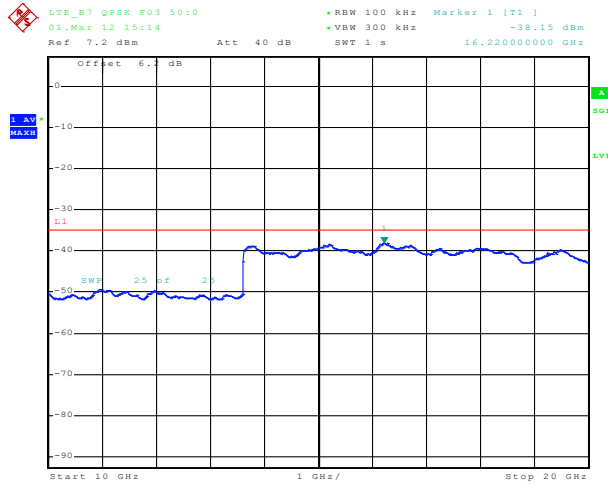


Date: 1.MAR.2012 15:13:33

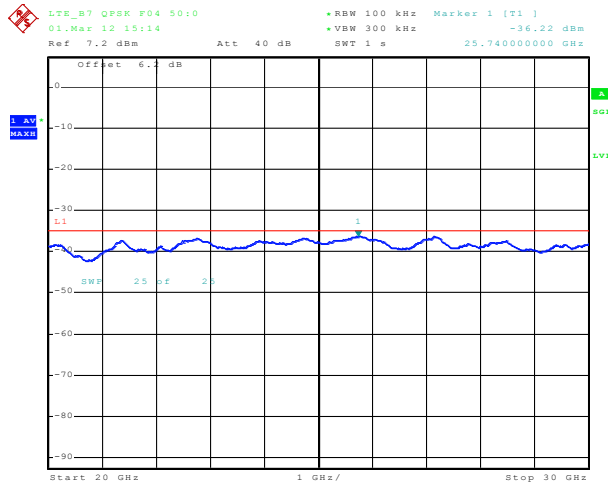
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.219 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, QPSK, 10 GHz to 20 GHz

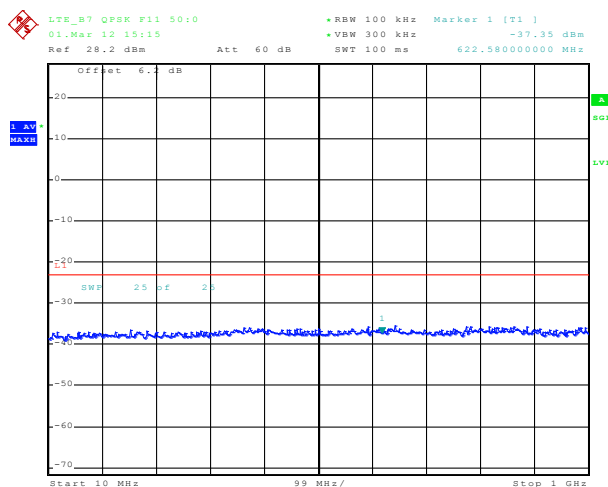


## 6.3.3.220 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, QPSK, 20 GHz to 30 GHz



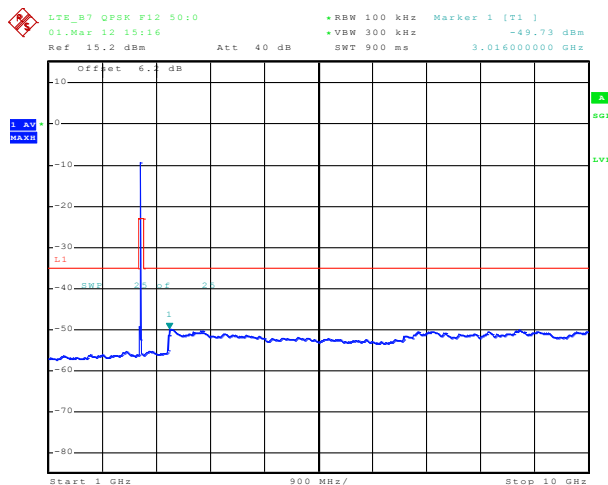
# SIERRA WIRELESS, INC.

### 6.3.3.221 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:15:12

### 6.3.3.222 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, QPSK, 1 GHz to 10 GHz

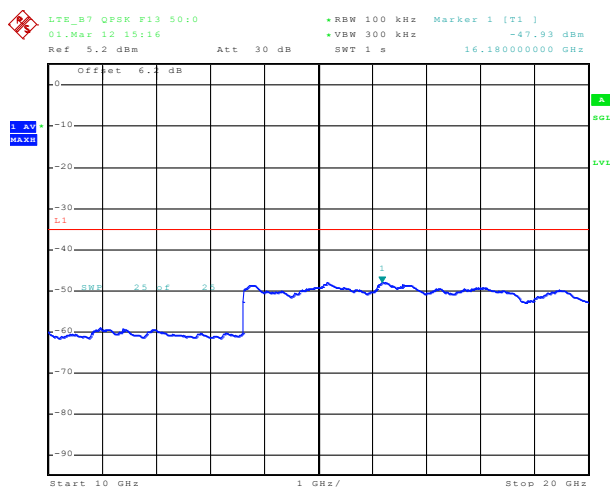


Date: 1.MAR.2012 15:16:01

Note: The strong emission shown is the carrier signal.

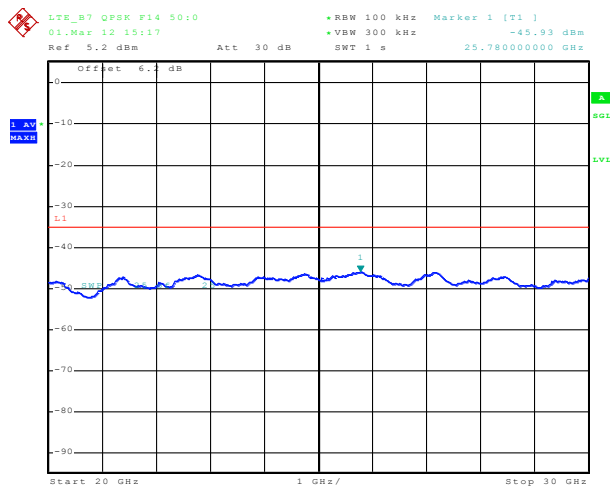
# SIERRA WIRELESS, INC.

## 6.3.3.223 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:16:43

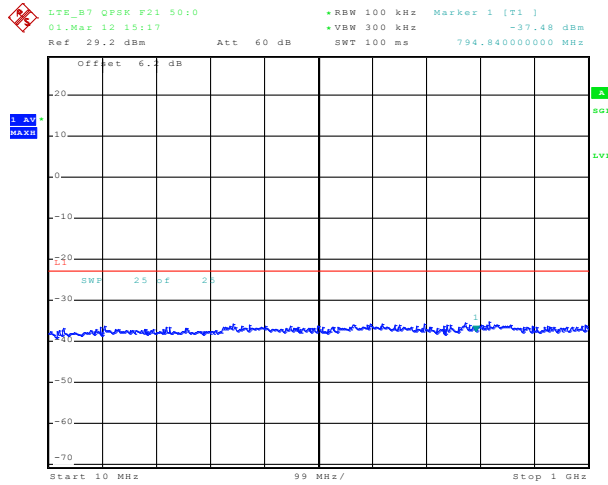
## 6.3.3.224 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 15:17:21

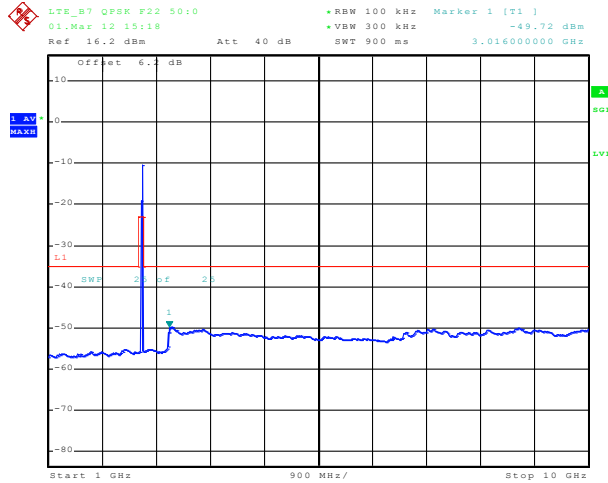
# SIERRA WIRELESS, INC.

## 6.3.3.225 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:17:39

## 6.3.3.226 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, QPSK, 1 GHz to 10 GHz



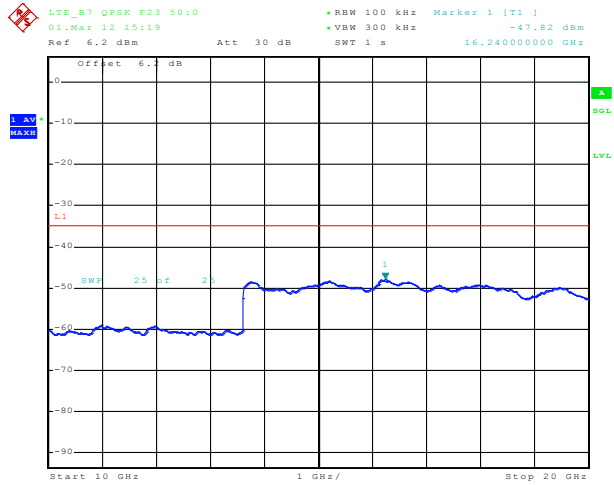
Date: 1.MAR.2012 15:18:27

Note: The strong emission shown is the carrier signal.

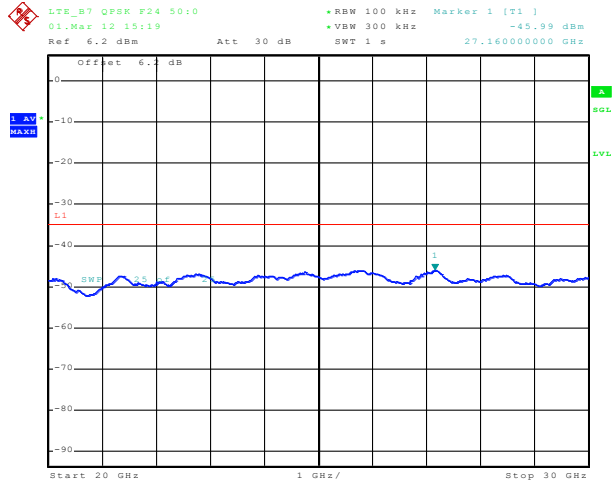


# SIERRA WIRELESS, INC.

## 6.3.3.227 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, QPSK, 10 GHz to 20 GHz

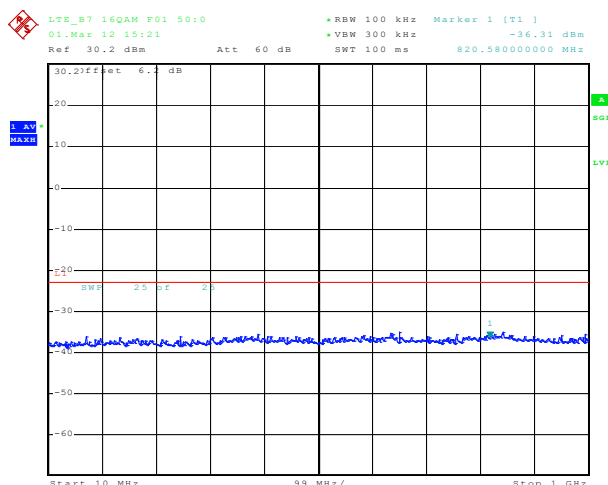


## 6.3.3.228 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, QPSK, 20 GHz to 30 GHz



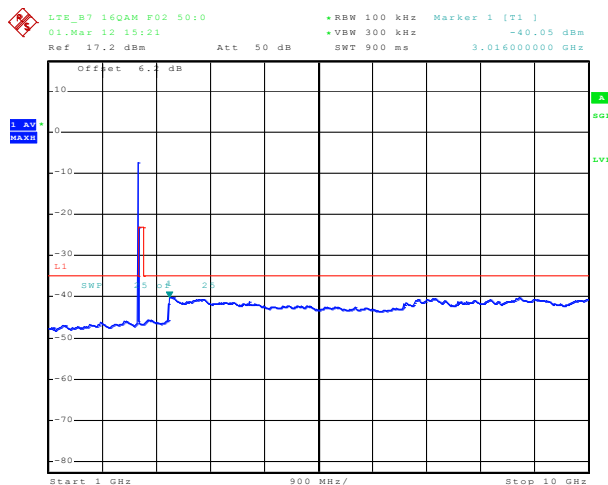
# SIERRA WIRELESS, INC.

## 6.3.3.229 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 15:21:06

## 6.3.3.230 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, 16QAM, 1 GHz to 10 GHz

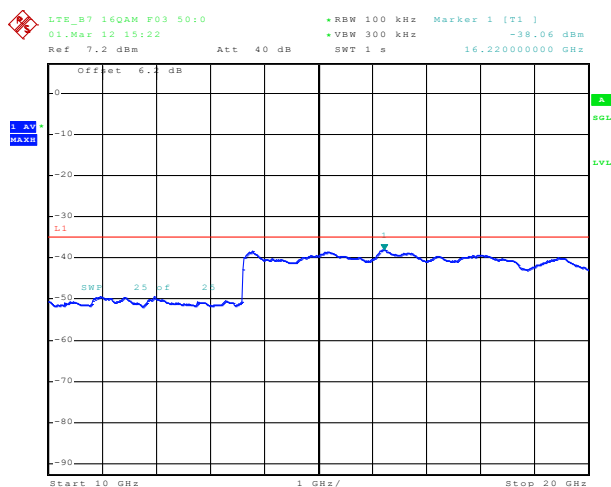


Date: 1.MAR.2012 15:21:54

Note: The strong emission shown is the carrier signal.

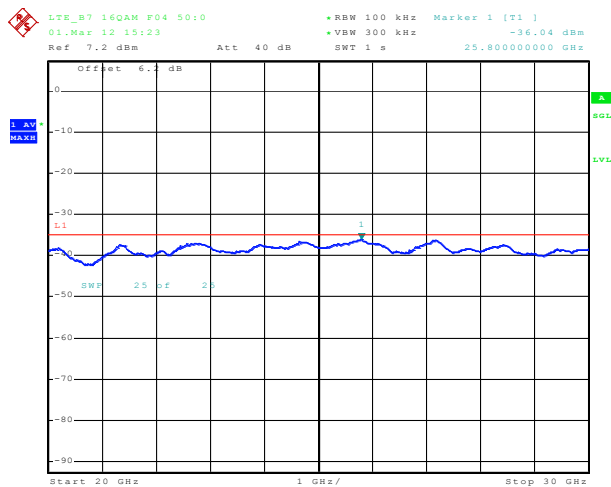
# SIERRA WIRELESS, INC.

## 6.3.3.231 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:22:36

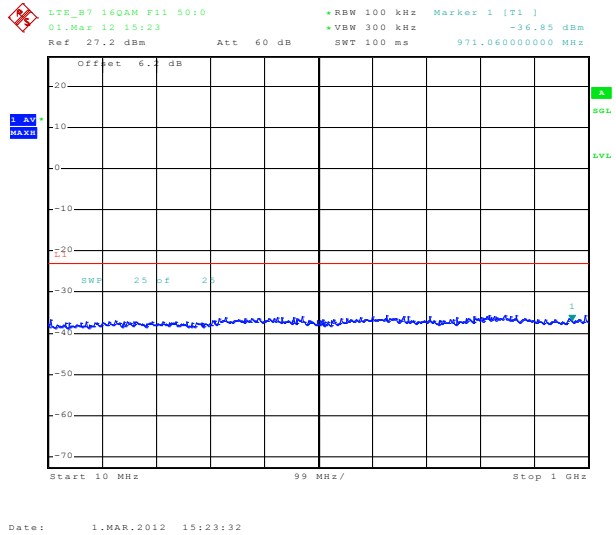
## 6.3.3.232 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2505.0 MHz, 10MHz BW, 50RB, 16QAM, 20 GHz to 30 GHz



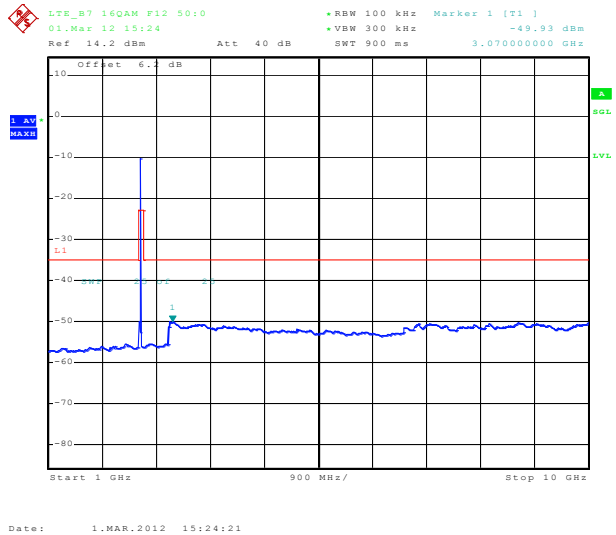
Date: 1.MAR.2012 15:23:15

SIERRA WIRELESS, INC.

6.3.3.233 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, 16QAM, 10MHz to 1 GHz



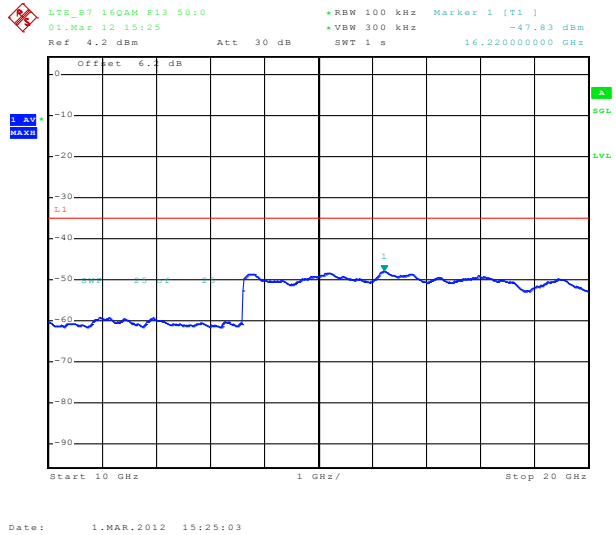
6.3.3.234 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, 16QAM, 1 GHz to 10 GHz



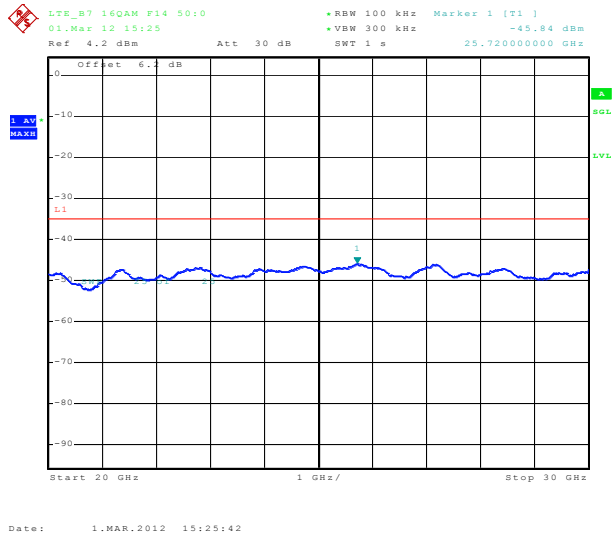
Note: The strong emission shown is the carrier signal.

**SIERRA WIRELESS, INC.**

**6.3.3.235**     *Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, 16QAM, 10 GHz to 20 GHz*

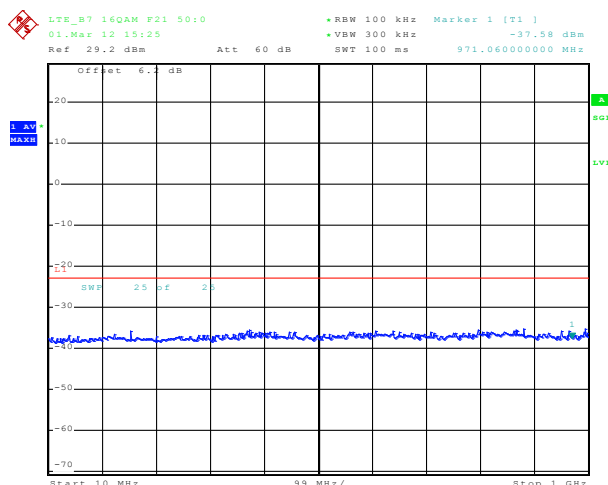


**6.3.3.236**     *Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB, 16QAM, 20 GHz to 30 GHz*



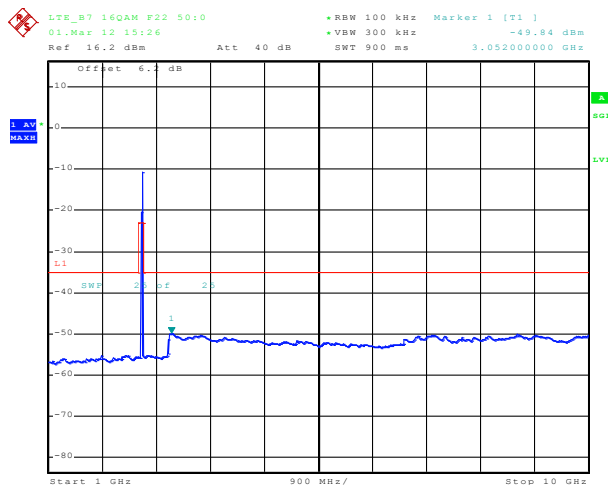
# SIERRA WIRELESS, INC.

## 6.3.3.237 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 15:26:00

## 6.3.3.238 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, 16QAM, 1 GHz to 10 GHz

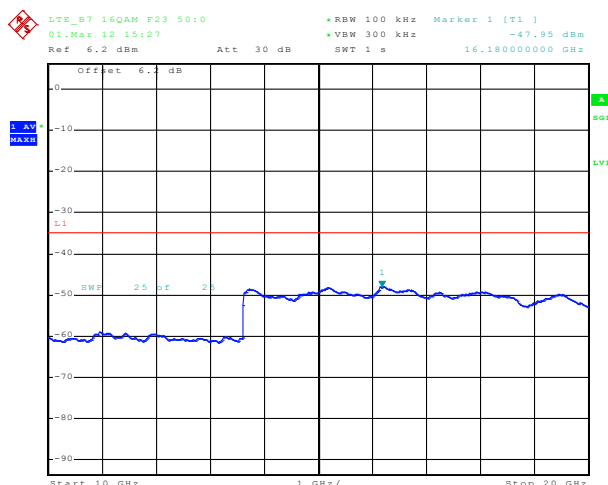


Date: 1.MAR.2012 15:26:48

Note: The strong emission shown is the carrier signal.

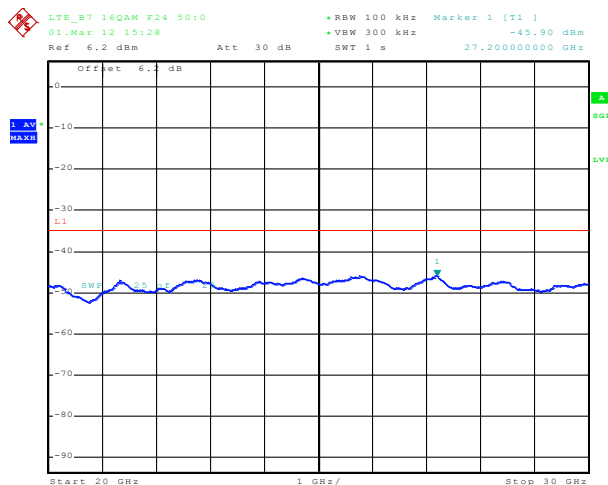
# SIERRA WIRELESS, INC.

## 6.3.3.239 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:27:30

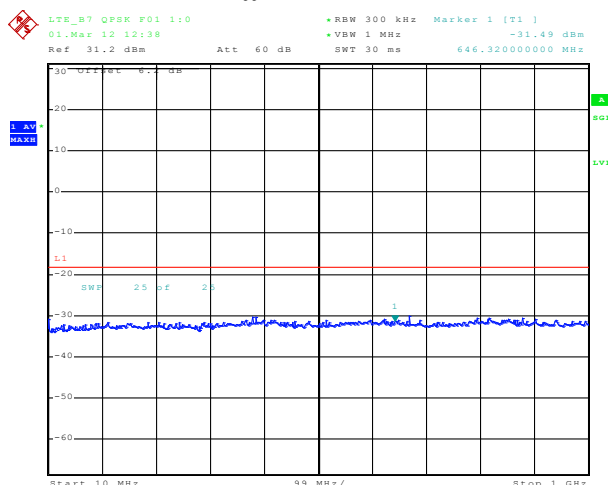
## 6.3.3.240 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2565.0 MHz, 10MHz BW, 50RB, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 15:28:09

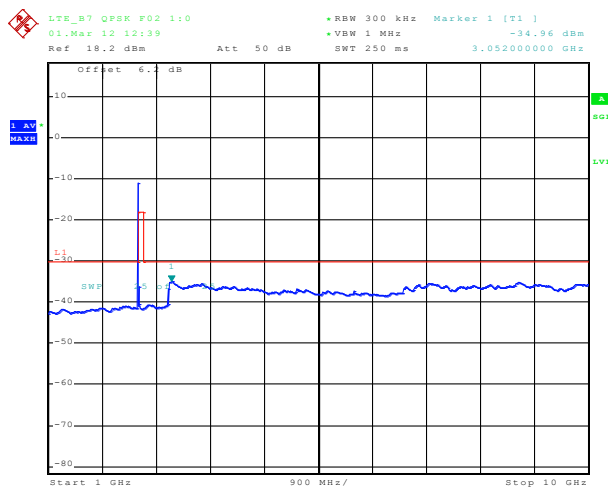
# SIERRA WIRELESS, INC.

## 6.3.3.241 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 12:38:42

## 6.3.3.242 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 1 GHz to 10 GHz



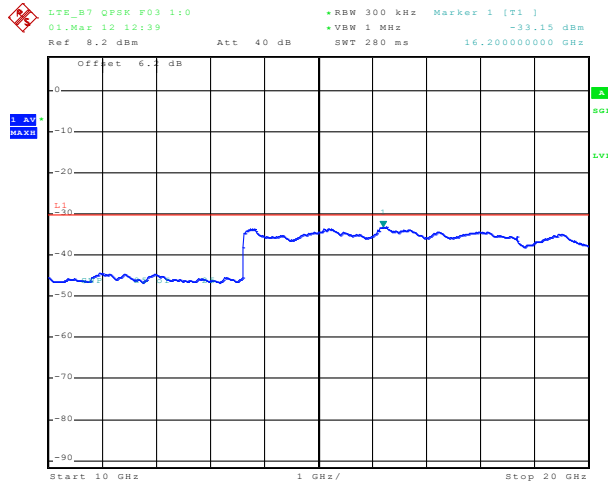
Date: 1.MAR.2012 12:39:13

Note: The strong emission shown is the carrier signal.



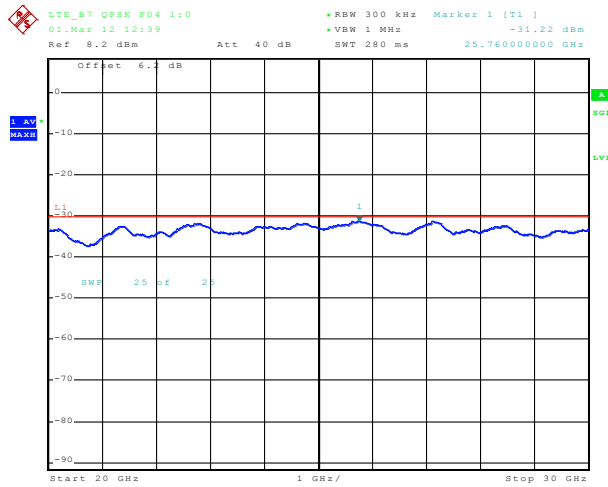
# SIERRA WIRELESS, INC.

## 6.3.3.243 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 12:39:37

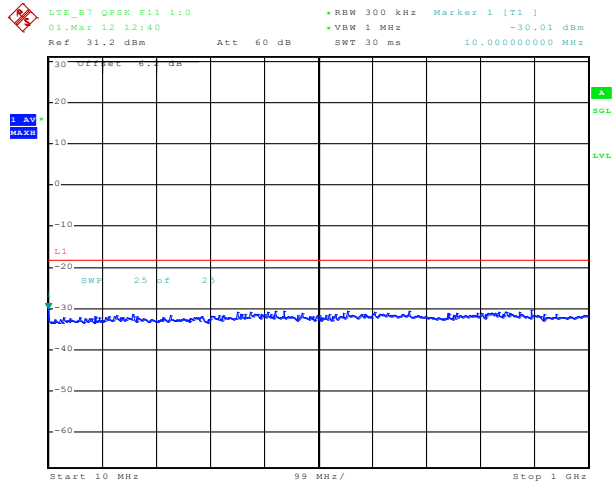
## 6.3.3.244 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 12:39:57

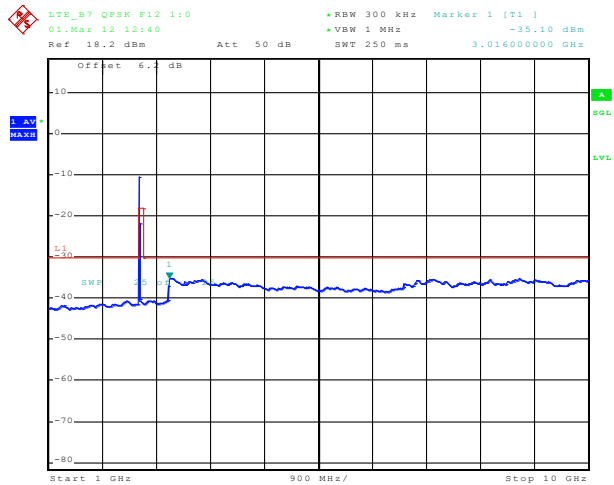
# SIERRA WIRELESS, INC.

## 6.3.3.245 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 12:40:14

## 6.3.3.246 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 1 GHz to 10 GHz

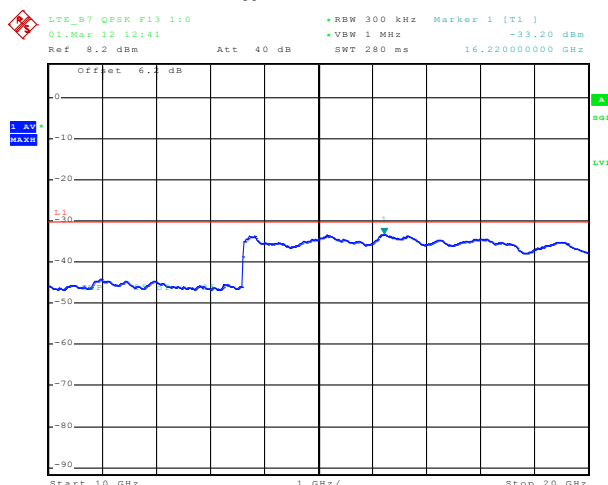


Date: 1.MAR.2012 12:40:45

Note: The strong emission shown is the carrier signal.

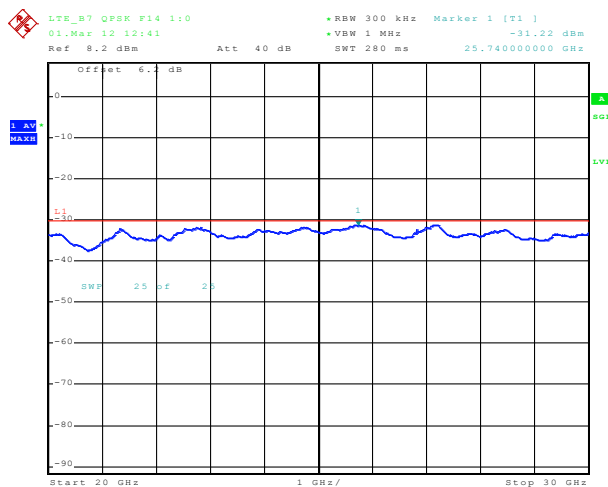
# SIERRA WIRELESS, INC.

## 6.3.3.247 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 12:41:08

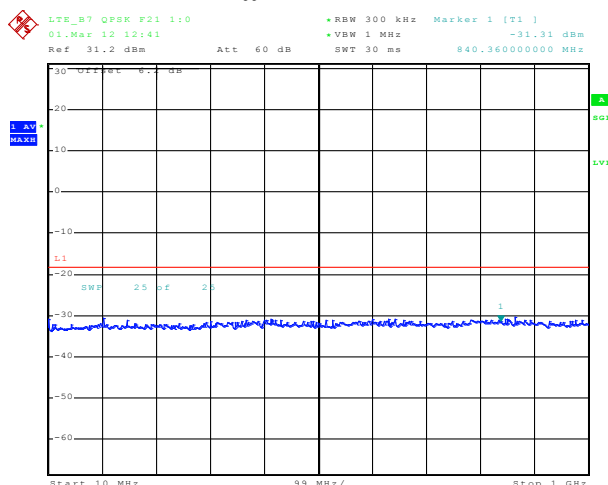
## 6.3.3.248 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 12:41:28

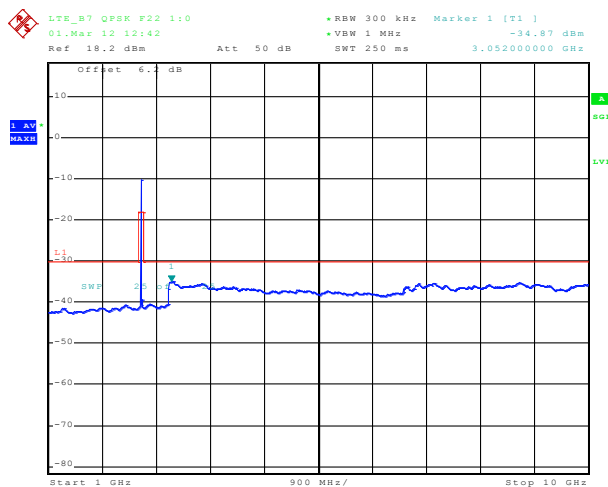
# SIERRA WIRELESS, INC.

## 6.3.3.249 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 12:41:45

## 6.3.3.250 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 1 GHz to 10 GHz

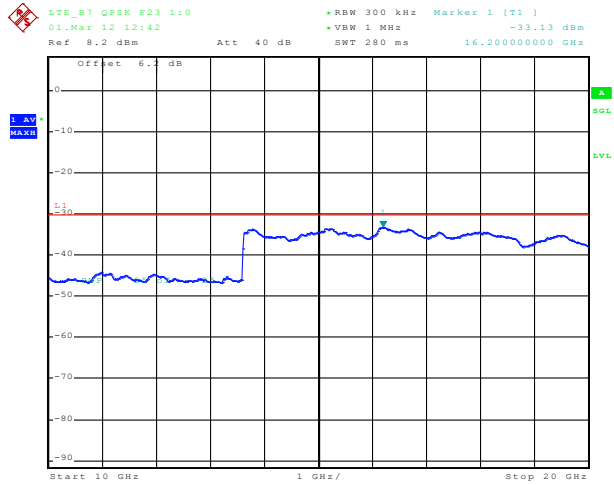


Date: 1.MAR.2012 12:42:16

Note: The strong emission shown is the carrier signal.

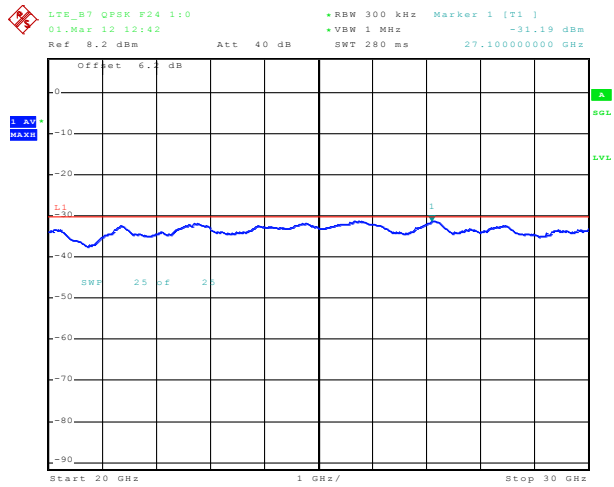
# SIERRA WIRELESS, INC.

## 6.3.3.251 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 12:42:40

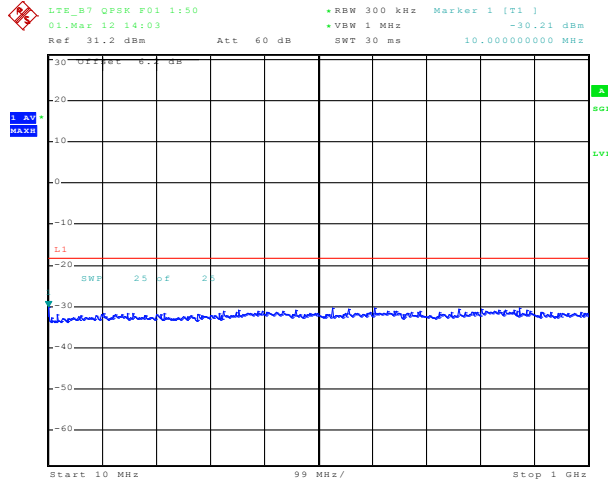
## 6.3.3.252 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 12:43:00

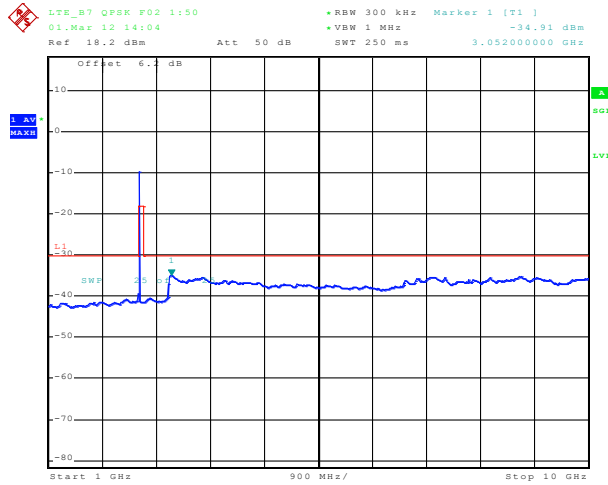
# SIERRA WIRELESS, INC.

## 6.3.3.253 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 14:03:50

## 6.3.3.254 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 1 GHz to 10 GHz

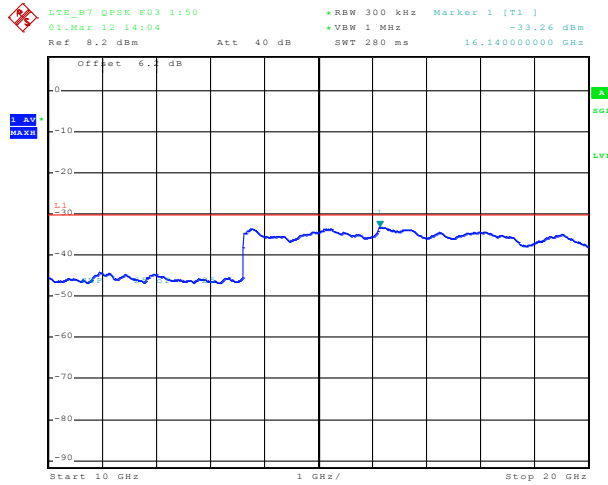


Date: 1.MAR.2012 14:04:21

Note: The strong emission shown is the carrier signal.

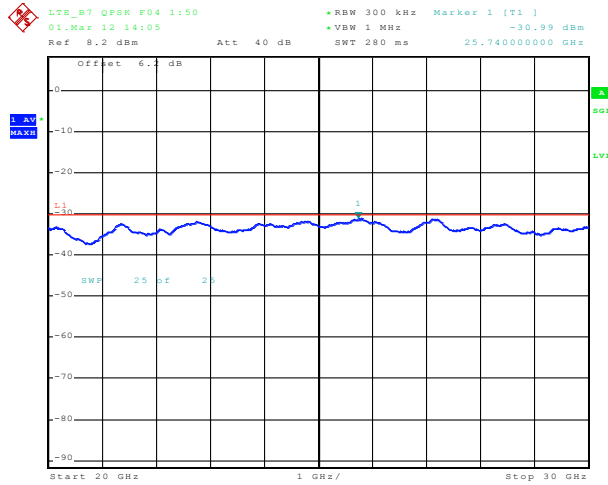
SIERRA WIRELESS, INC.

6.3.3.255 *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 10 GHz to 20 GHz*



Date: 1.MAR.2012 14:04:44

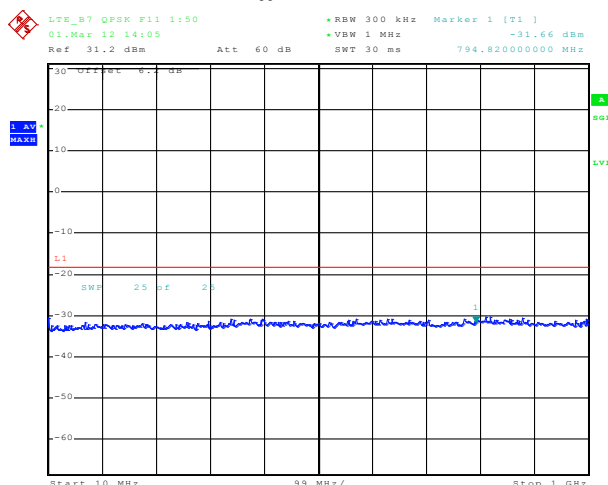
6.3.3.256 *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 20 GHz to 30 GHz*



Date: 1.MAR.2012 14:05:04

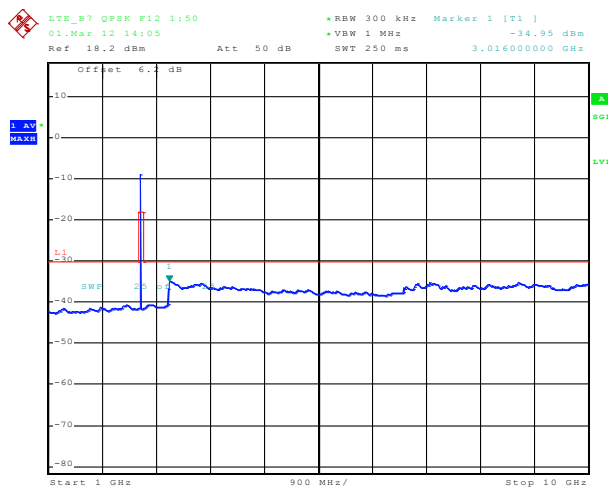
# SIERRA WIRELESS, INC.

## 6.3.3.257 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 14:05:24

## 6.3.3.258 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 1 GHz to 10 GHz



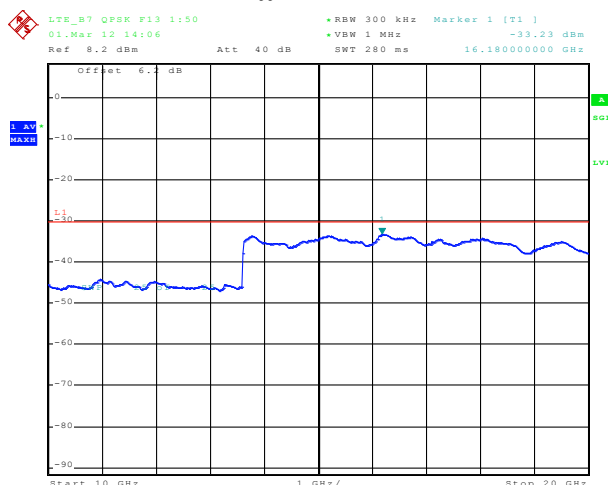
Date: 1.MAR.2012 14:05:55

Note: The strong emission shown is the carrier signal.



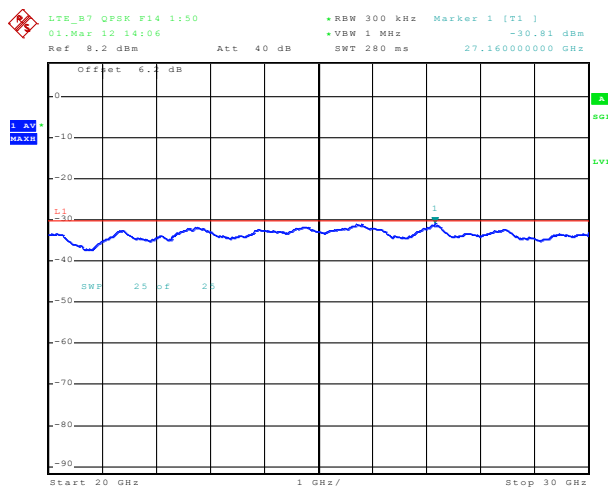
# SIERRA WIRELESS, INC.

## 6.3.3.259 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:06:18

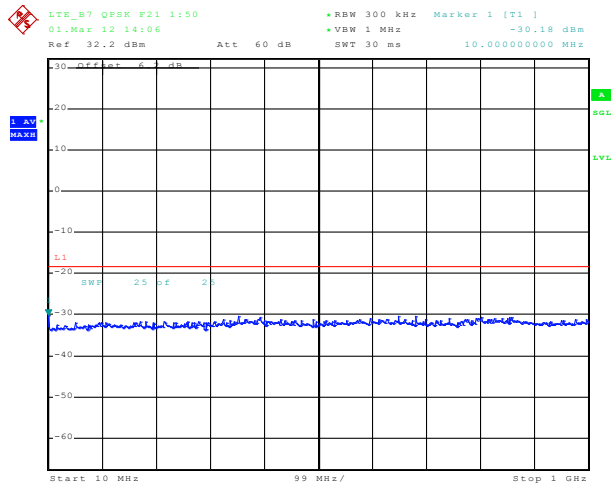
## 6.3.3.260 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 14:06:38

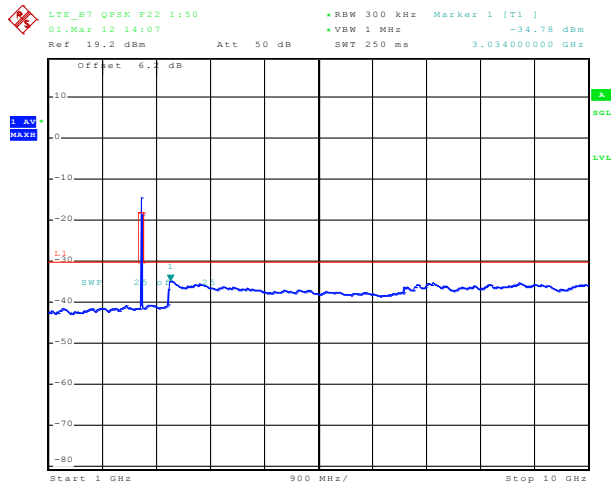
# SIERRA WIRELESS, INC.

## 6.3.3.261 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 14:07:00

## 6.3.3.262 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 1 GHz to 10 GHz

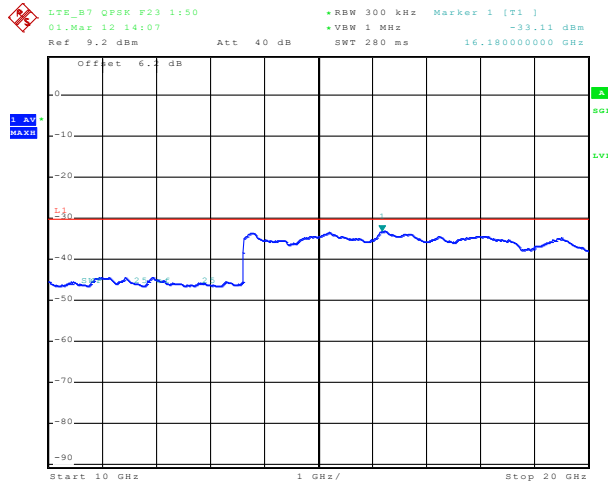


Date: 1.MAR.2012 14:07:30

Note: The strong emission shown is the carrier signal.

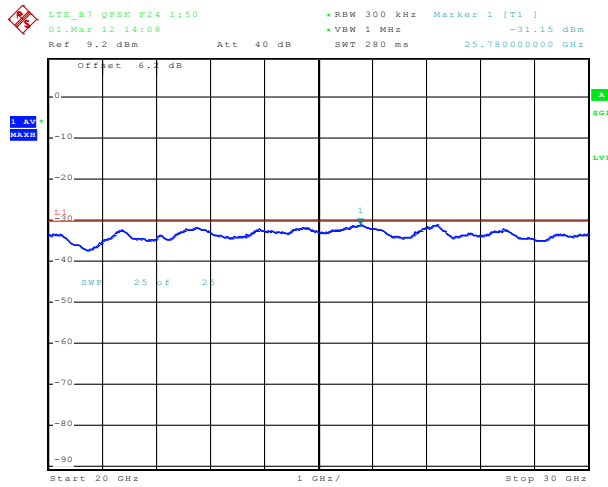
# SIERRA WIRELESS, INC.

## 6.3.3.263 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:07:54

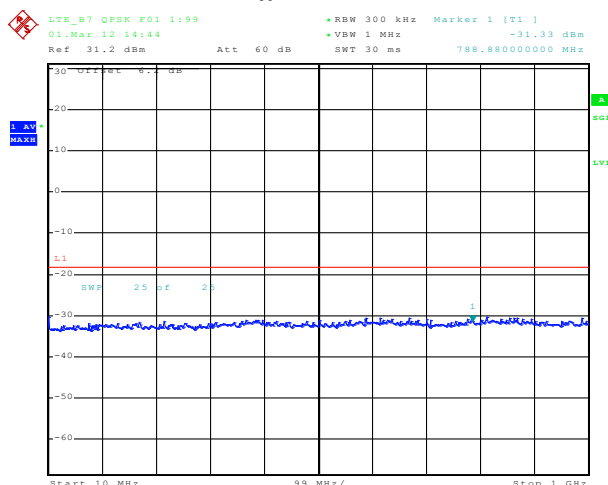
## 6.3.3.264 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 14:08:14

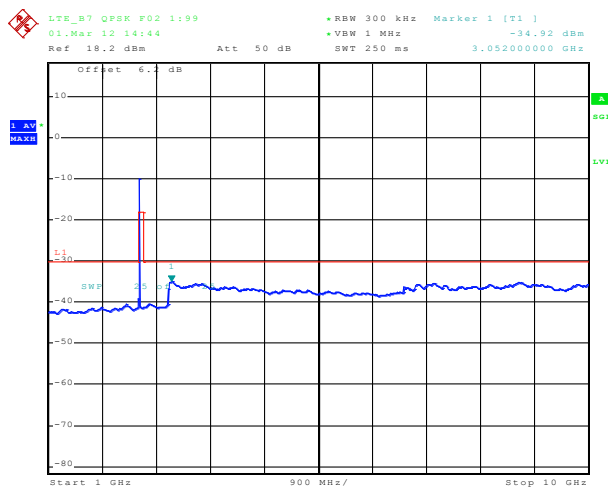
# SIERRA WIRELESS, INC.

## 6.3.3.265 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 14:44:05

## 6.3.3.266 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 1 GHz to 10 GHz

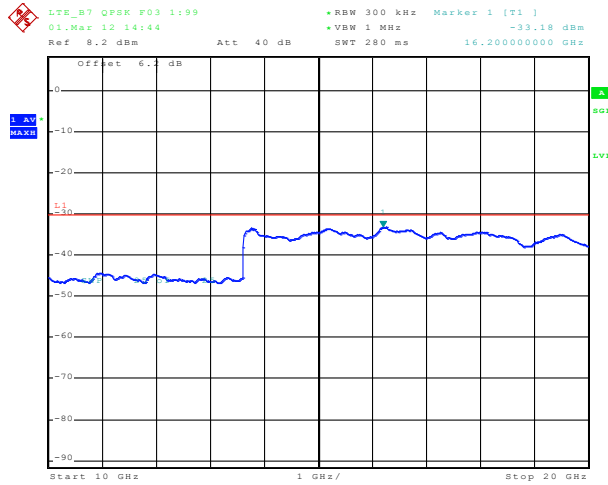


Date: 1.MAR.2012 14:44:36

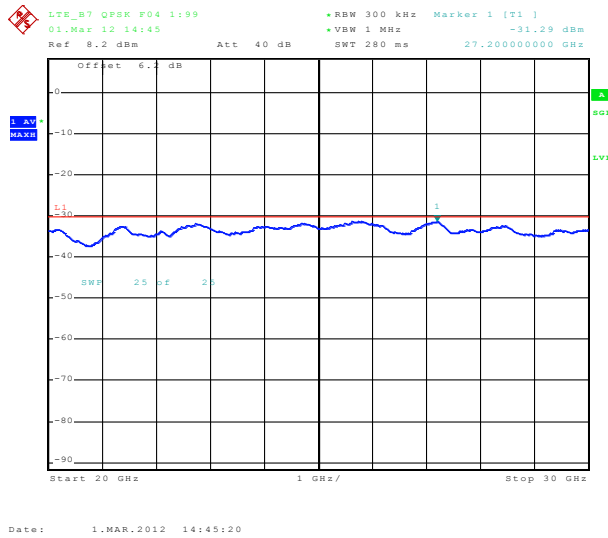
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.267 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 10 GHz to 20 GHz



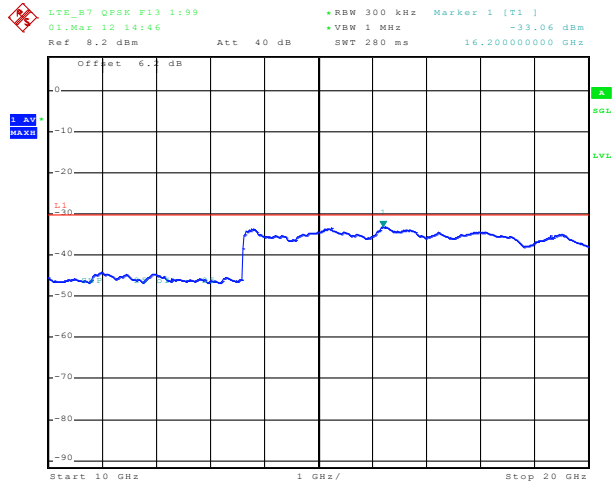
## 6.3.3.268 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 20 GHz to 30 GHz



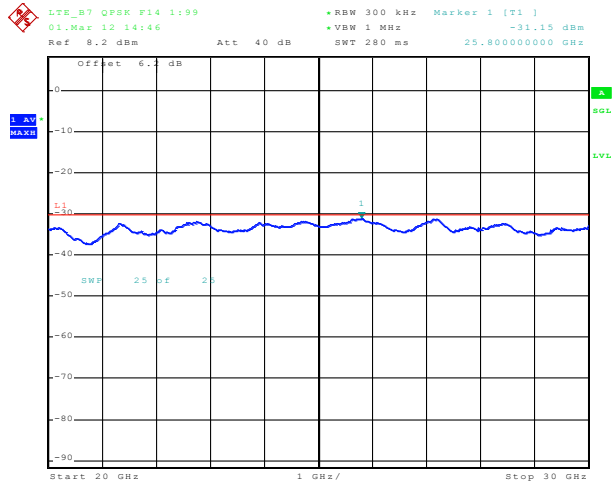


# SIERRA WIRELESS, INC.

### 6.3.3.271 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 10 GHz to 20 GHz

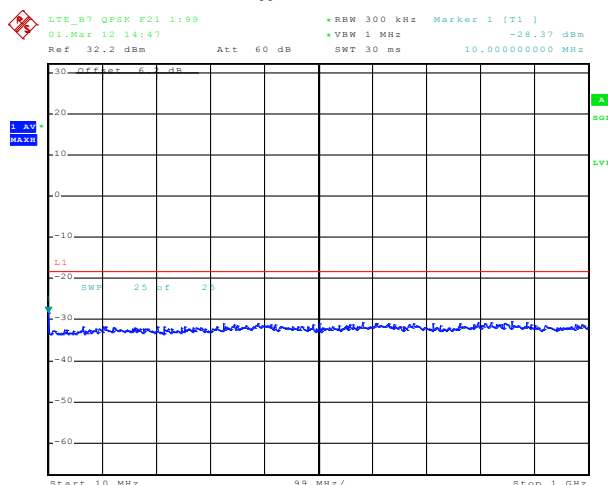


### 6.3.3.272 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 20 GHz to 30 GHz



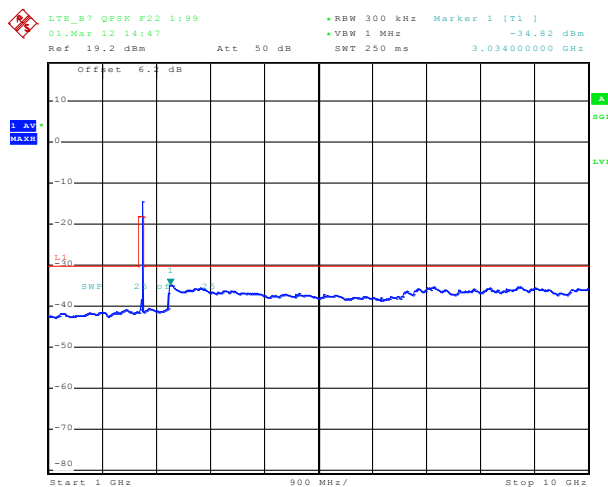
# SIERRA WIRELESS, INC.

## 6.3.3.273 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 14:47:08

## 6.3.3.274 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 1 GHz to 10 GHz



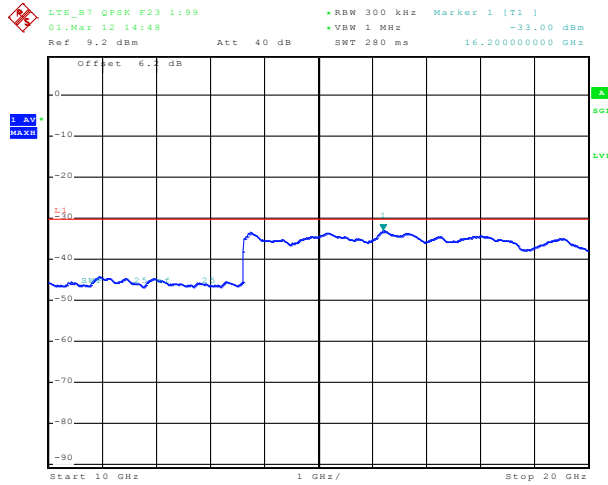
Date: 1.MAR.2012 14:47:39

Note: The strong emission shown is the carrier signal.

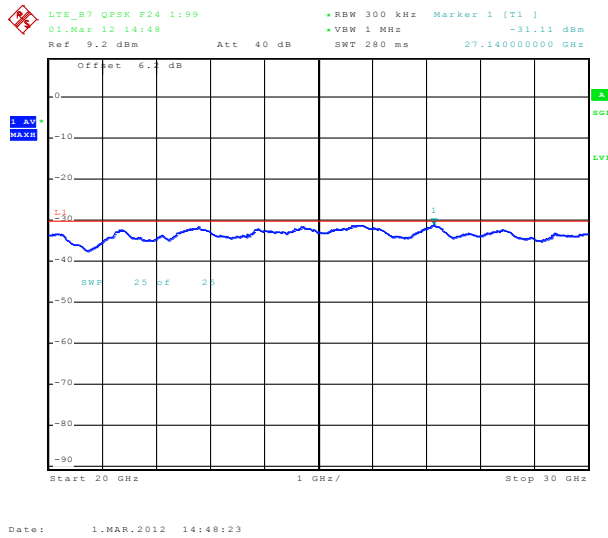


# SIERRA WIRELESS, INC.

## 6.3.3.275 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 10 GHz to 20 GHz

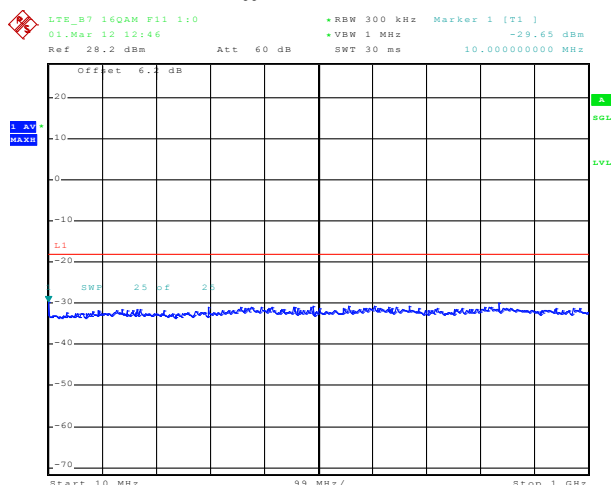


## 6.3.3.276 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 99RB Offset, QPSK, 20 GHz to 30 GHz



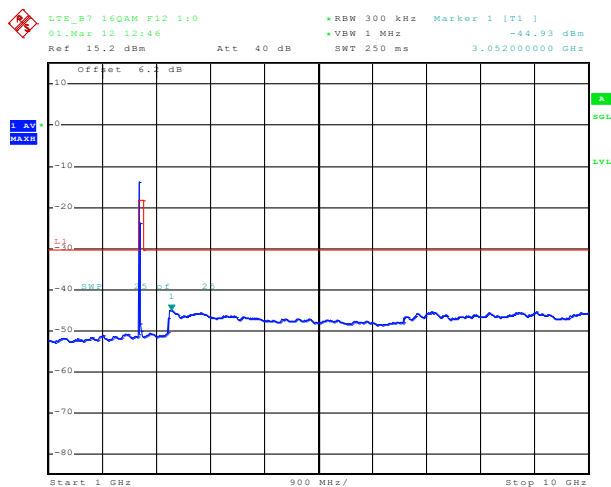
# SIERRA WIRELESS, INC.

### 6.3.3.277 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 12:46:21

### 6.3.3.278 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 1 GHz to 10 GHz

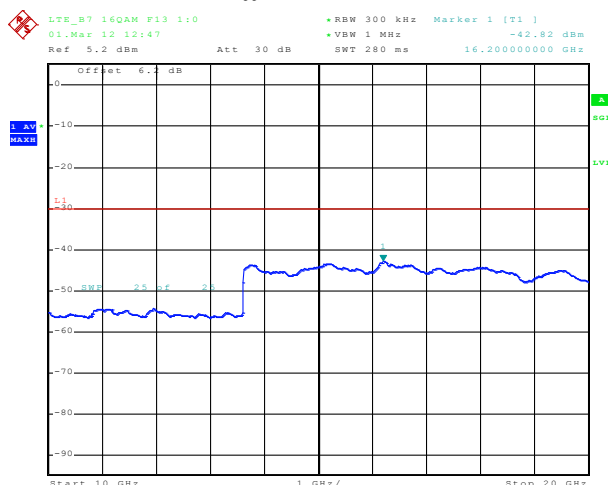


Date: 1.MAR.2012 12:46:51

Note: The strong emission shown is the carrier signal.

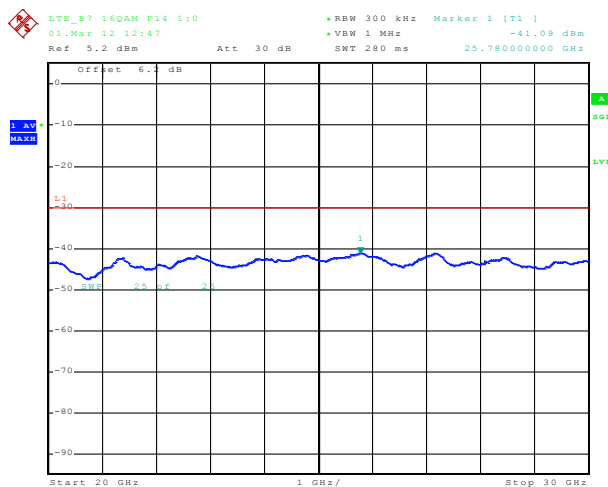
# SIERRA WIRELESS, INC.

## 6.3.3.279 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 12:47:15

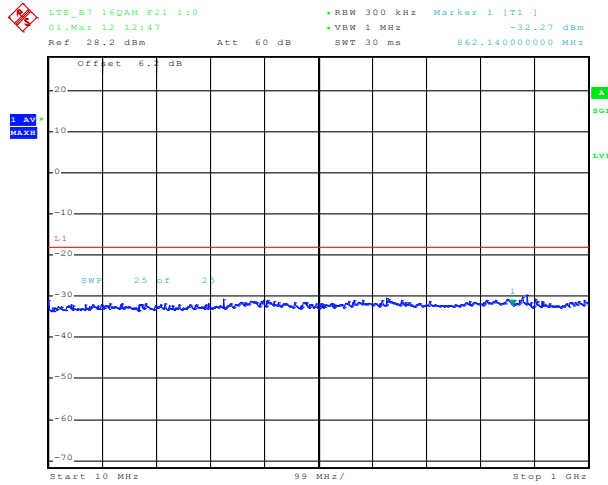
## 6.3.3.280 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 12:47:35

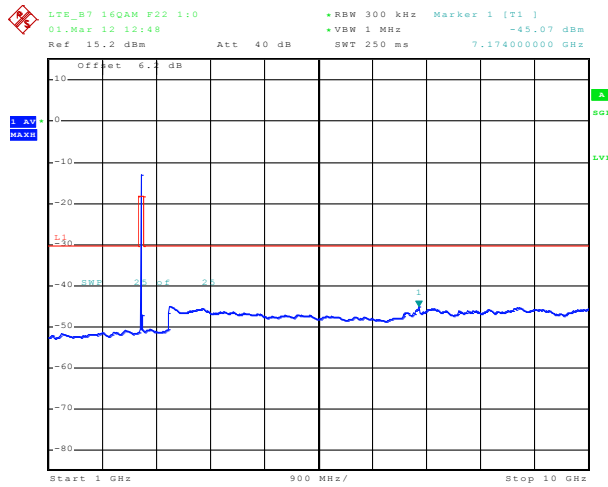
# SIERRA WIRELESS, INC.

## 6.3.3.281 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 12:47:52

## 6.3.3.282 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 1 GHz to 10 GHz

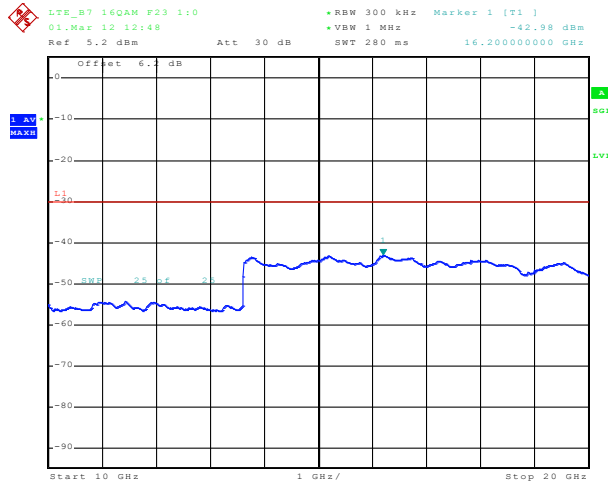


Date: 1.MAR.2012 12:48:23

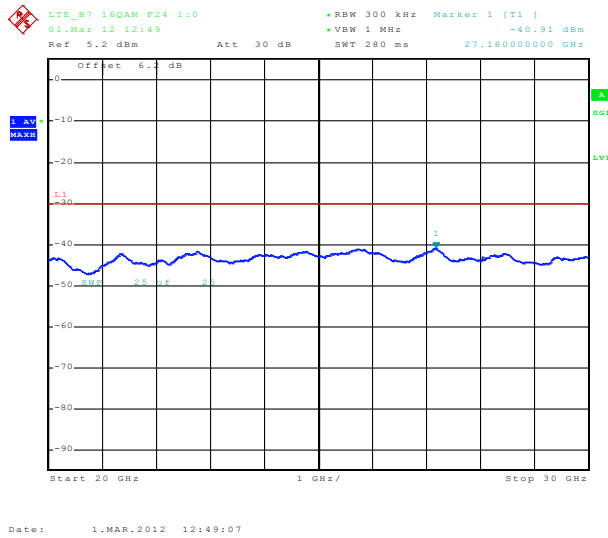
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.283 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 10 GHz to 20 GHz

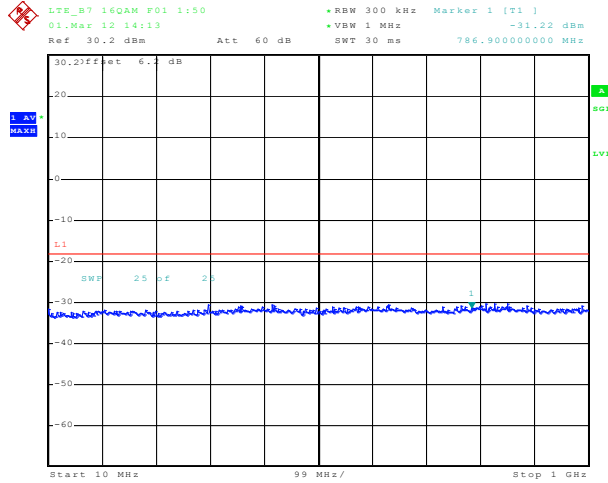


## 6.3.3.284 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, ORB Offset, 16QAM, 20 GHz to 30 GHz



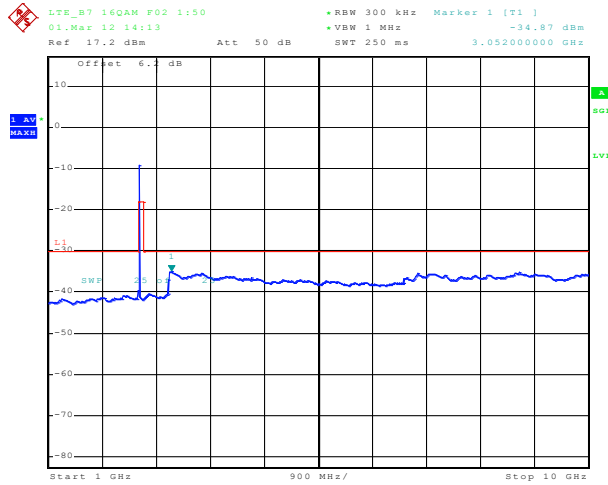
**SIERRA WIRELESS, INC.**

**6.3.3.285**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 10MHz to 1 GHz*



Date: 1.MAR.2012 14:13:09

**6.3.3.286**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 1 GHz to 10 GHz*

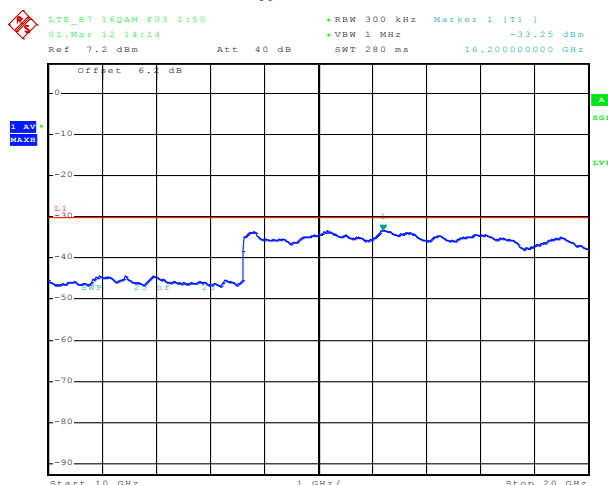


Date: 1.MAR.2012 14:13:40

**Note:** The strong emission shown is the carrier signal.

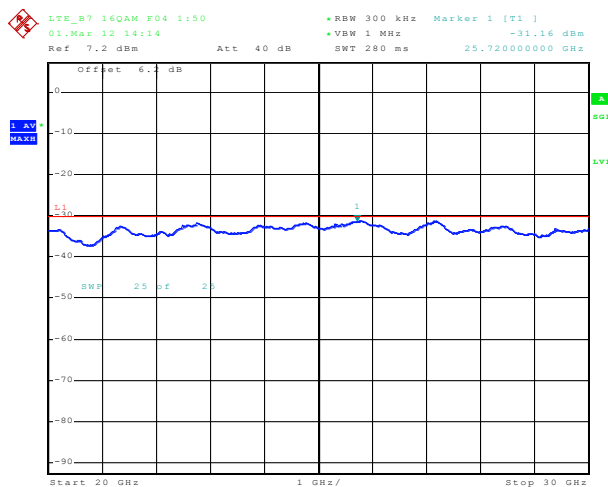
# SIERRA WIRELESS, INC.

## 6.3.3.287 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:14:03

## 6.3.3.288 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 20 GHz to 30 GHz



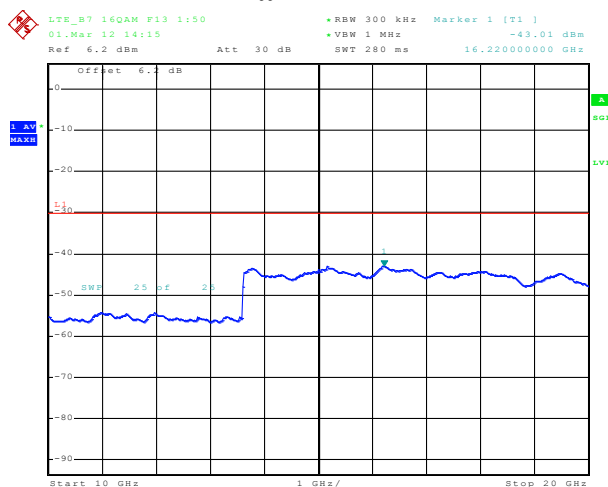
Date: 1.MAR.2012 14:14:23





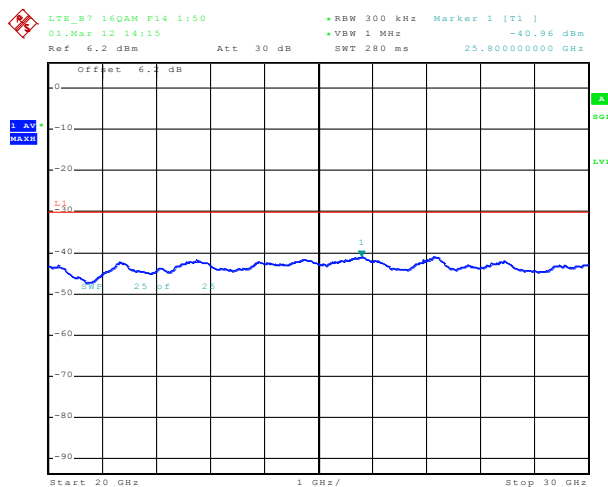
# SIERRA WIRELESS, INC.

## 6.3.3.291 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:15:39

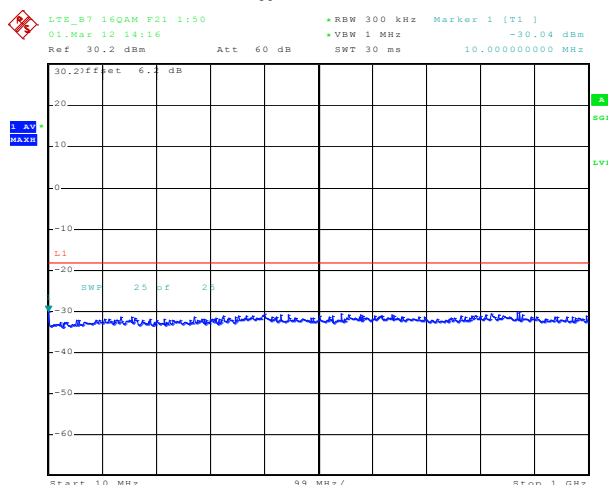
## 6.3.3.292 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 14:15:59

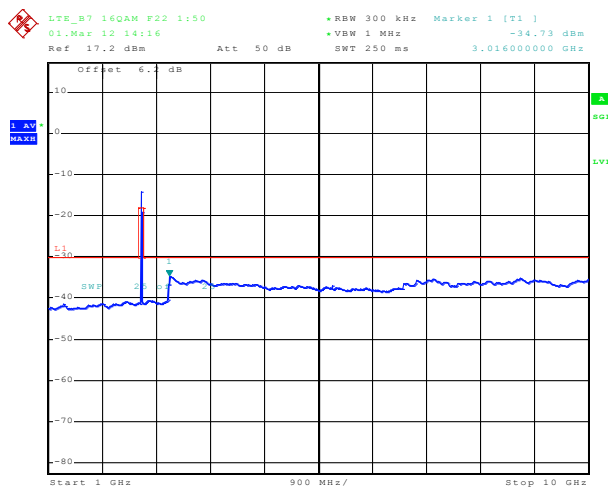
# SIERRA WIRELESS, INC.

## 6.3.3.293 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 14:16:20

## 6.3.3.294 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 1 GHz to 10 GHz

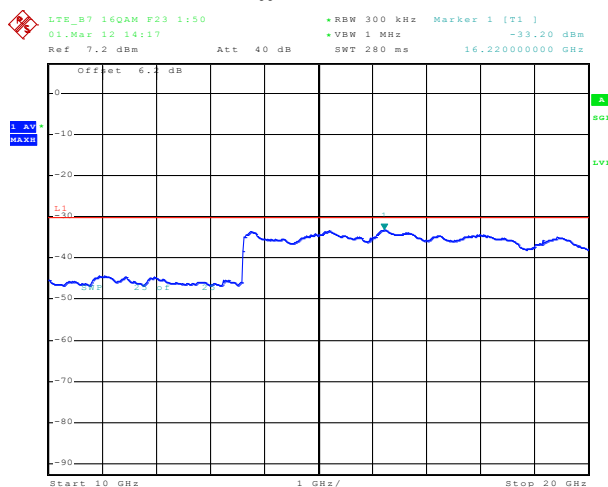


Date: 1.MAR.2012 14:16:51

Note: The strong emission shown is the carrier signal.

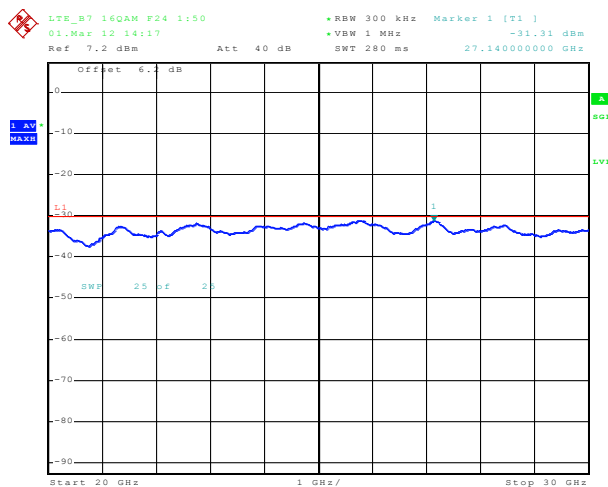
# SIERRA WIRELESS, INC.

## 6.3.3.295 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:17:15

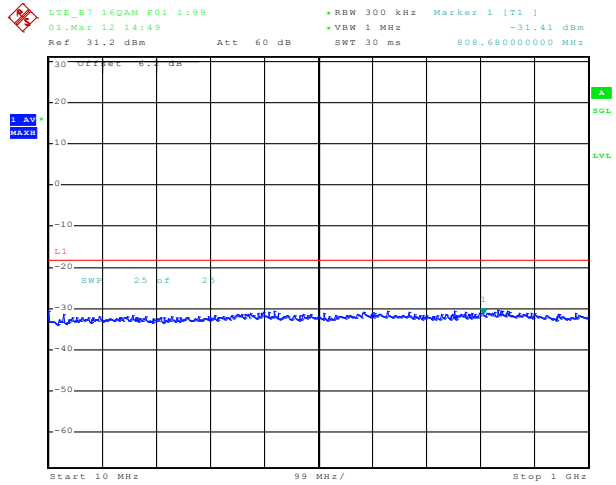
## 6.3.3.296 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 50RB Offset, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 14:17:35

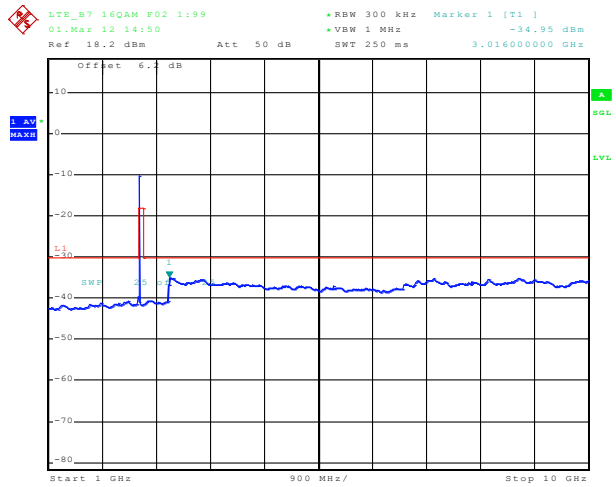
**SIERRA WIRELESS, INC.**

**6.3.3.297**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 10MHz to 1 GHz*



Date: 1.MAR.2012 14:49:57

**6.3.3.298**     *Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 1 GHz to 10 GHz*

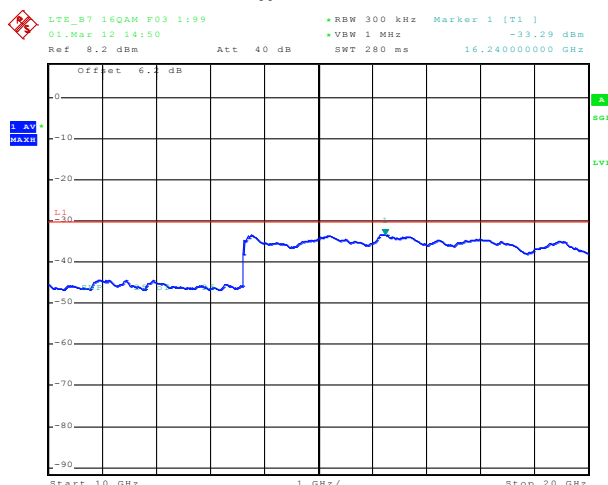


Date: 1.MAR.2012 14:50:28

**Note:** The strong emission shown is the carrier signal.

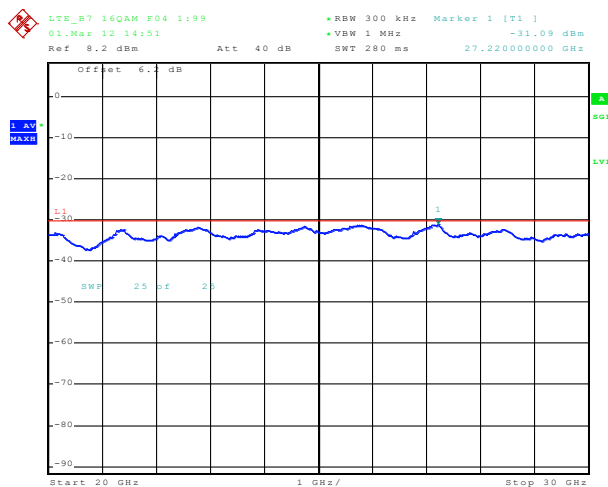
# SIERRA WIRELESS, INC.

## 6.3.3.299 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:50:51

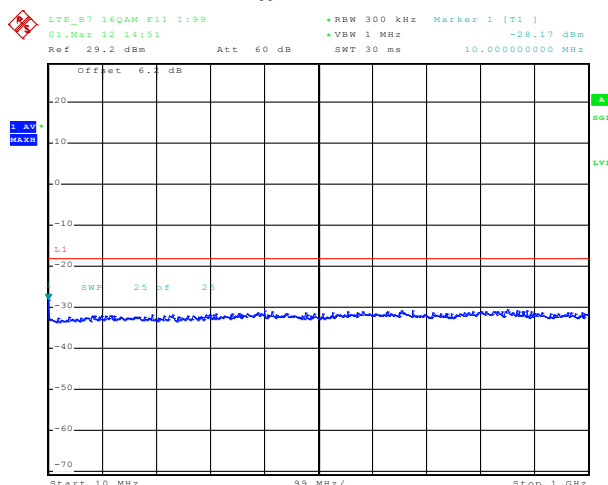
## 6.3.3.300 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 14:51:11

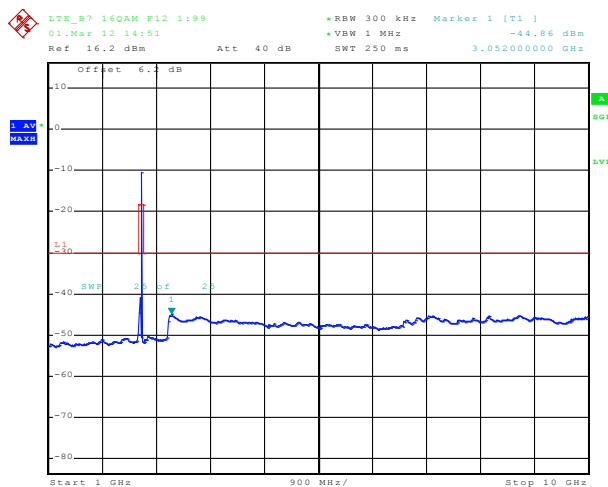
# SIERRA WIRELESS, INC.

## 6.3.3.301 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 14:51:28

## 6.3.3.302 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 1 GHz to 10 GHz

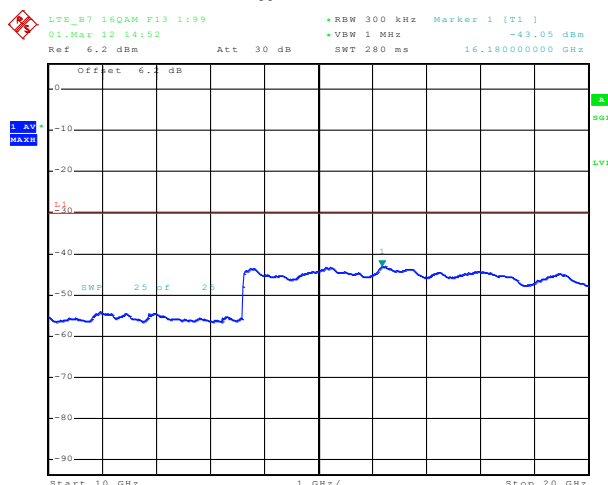


Date: 1.MAR.2012 14:51:59

Note: The strong emission shown is the carrier signal.

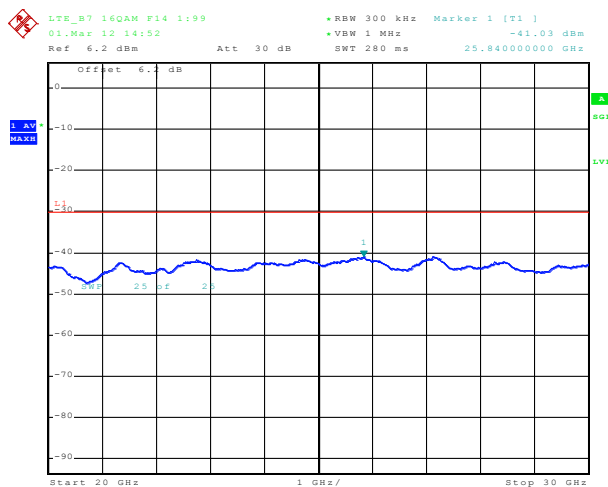
# SIERRA WIRELESS, INC.

## 6.3.3.303 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 14:52:23

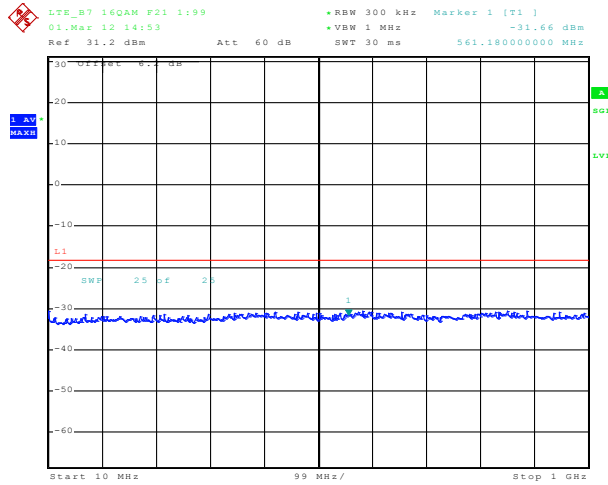
## 6.3.3.304 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 20 GHz to 30 GHz



Date: 1.MAR.2012 14:52:43

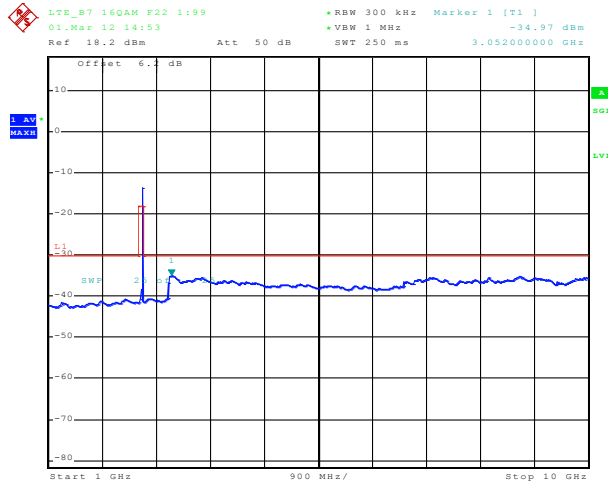
# SIERRA WIRELESS, INC.

### 6.3.3.305 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 14:53:00

### 6.3.3.306 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 1RB, 99RB Offset, 16QAM, 1 GHz to 10 GHz



Date: 1.MAR.2012 14:53:31

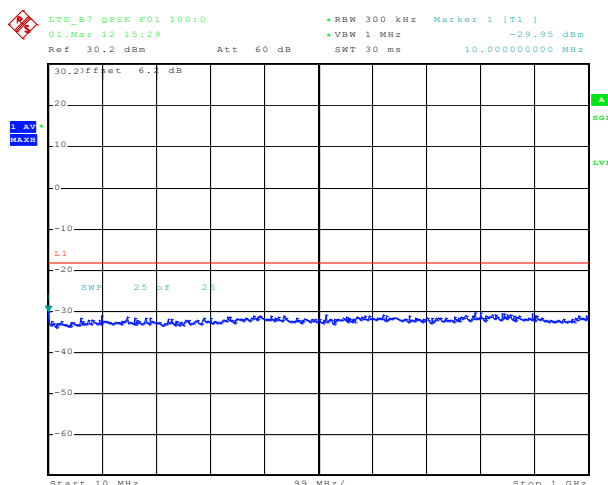
Note: The strong emission shown is the carrier signal.





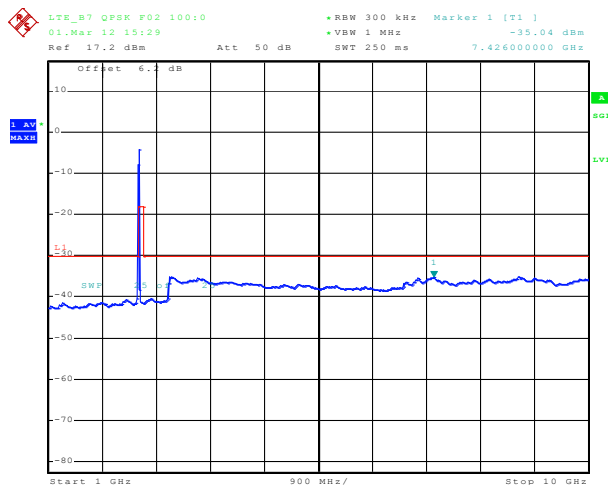
# SIERRA WIRELESS, INC.

## 6.3.3.309 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:29:23

## 6.3.3.310 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, QPSK, 1 GHz to 10 GHz

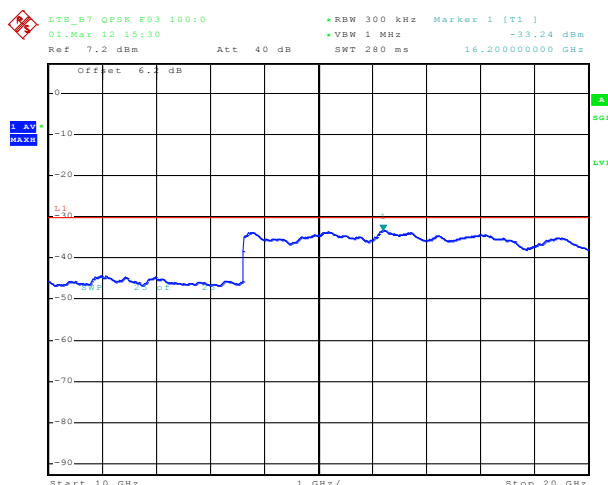


Date: 1.MAR.2012 15:29:54

Note: The strong emission shown is the carrier signal.

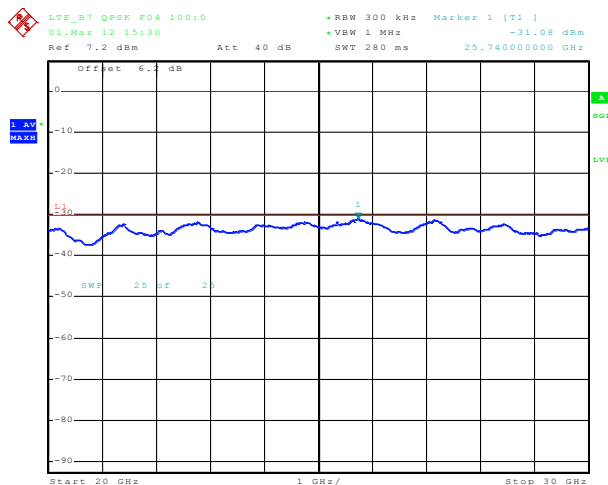
# SIERRA WIRELESS, INC.

## 6.3.3.311 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:30:18

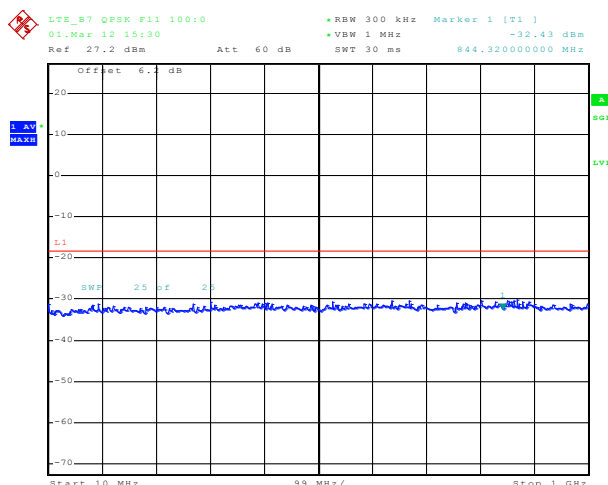
## 6.3.3.312 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 15:30:38

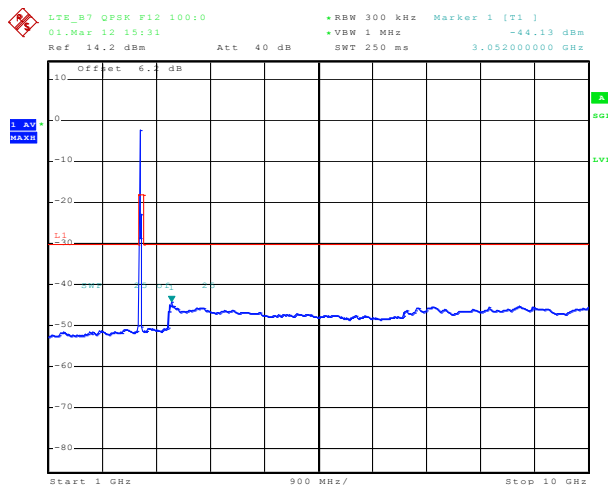
# SIERRA WIRELESS, INC.

### 6.3.3.313 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:30:56

### 6.3.3.314 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, QPSK, 1 GHz to 10 GHz

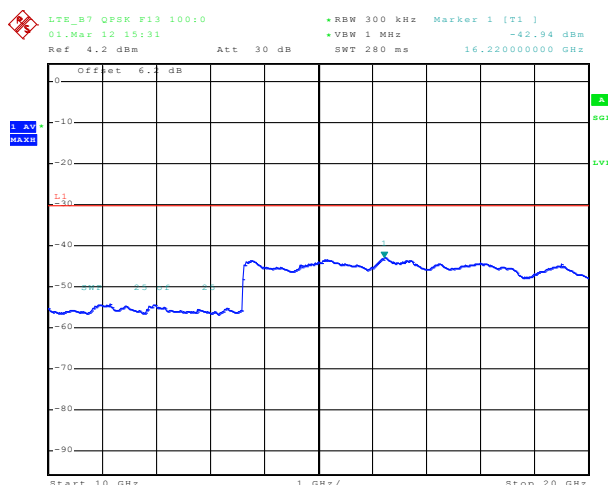


Date: 1.MAR.2012 15:31:26

Note: The strong emission shown is the carrier signal.

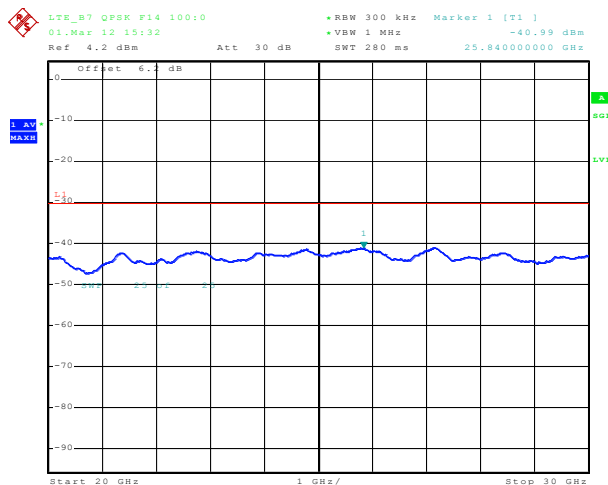
# SIERRA WIRELESS, INC.

## 6.3.3.315 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:31:50

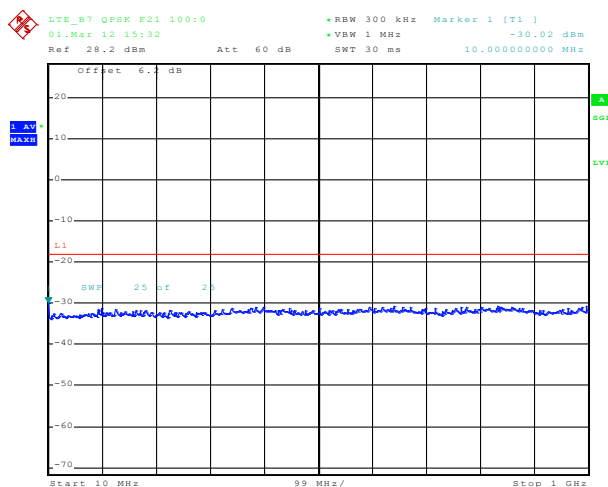
## 6.3.3.316 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 15:32:10

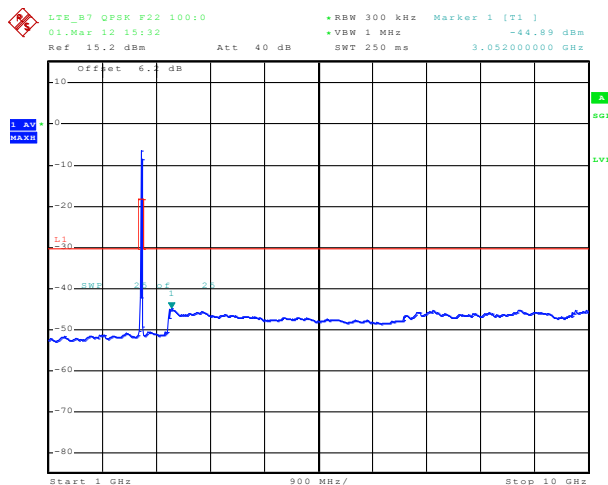
# SIERRA WIRELESS, INC.

## 6.3.3.317 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, QPSK, 10MHz to 1 GHz



Date: 1.MAR.2012 15:32:28

## 6.3.3.318 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, QPSK, 1 GHz to 10 GHz

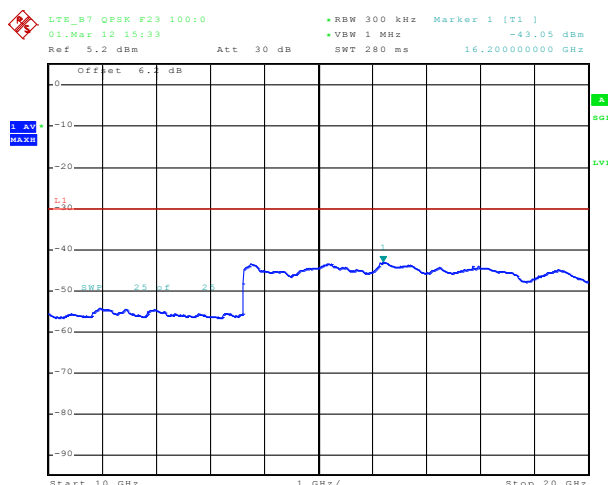


Date: 1.MAR.2012 15:32:59

Note: The strong emission shown is the carrier signal.

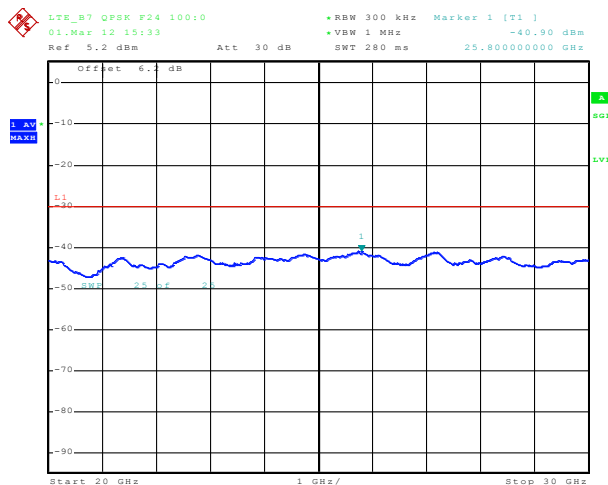
# SIERRA WIRELESS, INC.

## 6.3.3.319 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, QPSK, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:33:22

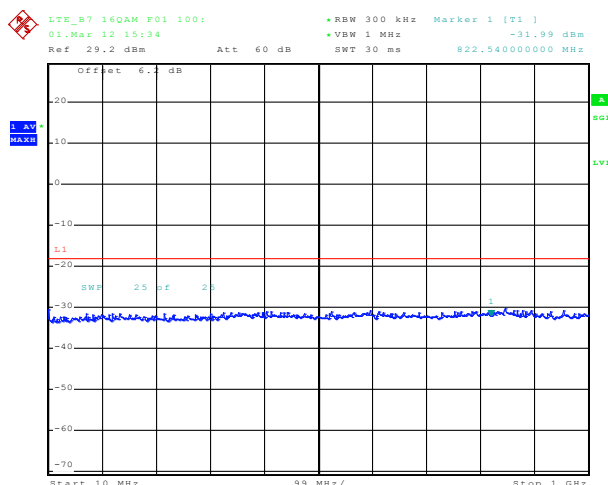
## 6.3.3.320 Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, QPSK, 20 GHz to 30 GHz



Date: 1.MAR.2012 15:33:42

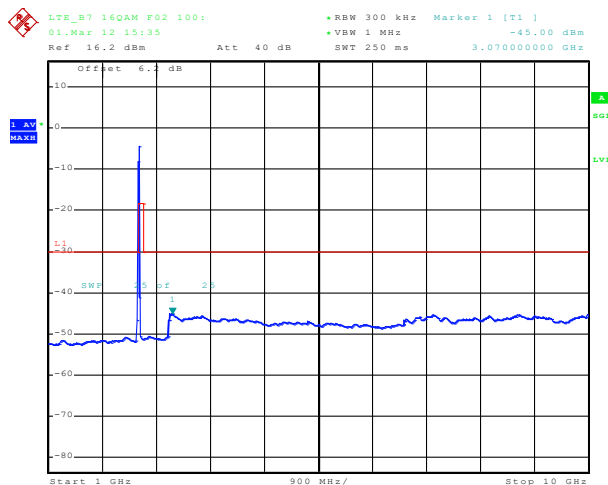
# SIERRA WIRELESS, INC.

## 6.3.3.321 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, 16QAM, 10MHz to 1 GHz



Date: 1.MAR.2012 15:34:59

## 6.3.3.322 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, 16QAM, 1 GHz to 10 GHz



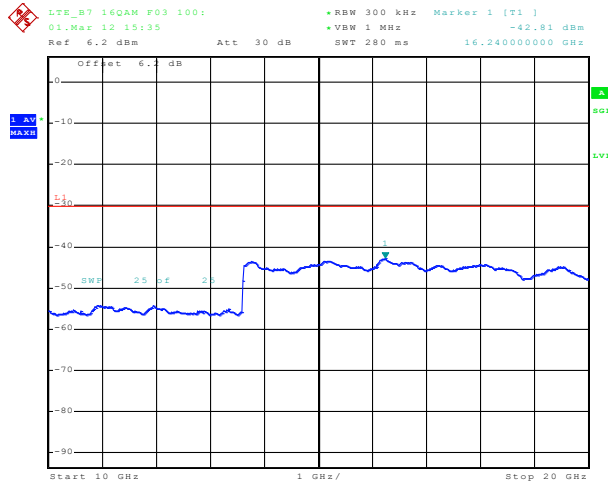
Date: 1.MAR.2012 15:35:30

Note: The strong emission shown is the carrier signal.



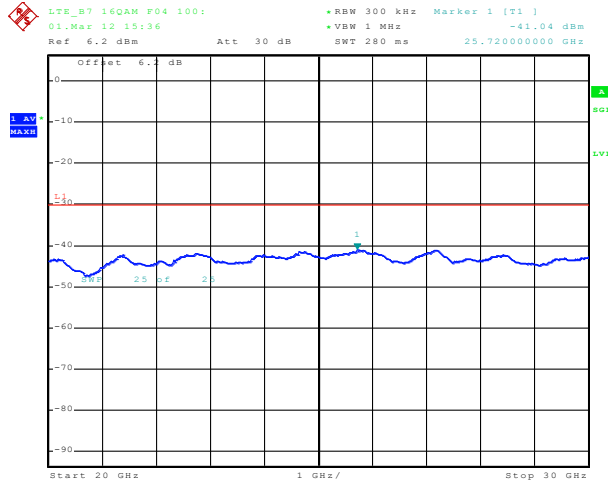
# SIERRA WIRELESS, INC.

## 6.3.3.323 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, 16QAM, 10 GHz to 20 GHz



Date: 1.MAR.2012 15:35:53

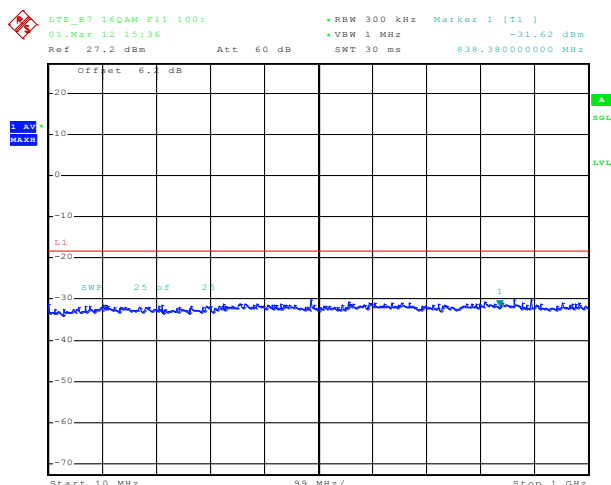
## 6.3.3.324 Out of Band Emissions at Antenna Terminals LTE B7, Low channel, 2510.0 MHz, 20MHz BW, 100RB, 16QAM, 20 GHz to 30 GHz



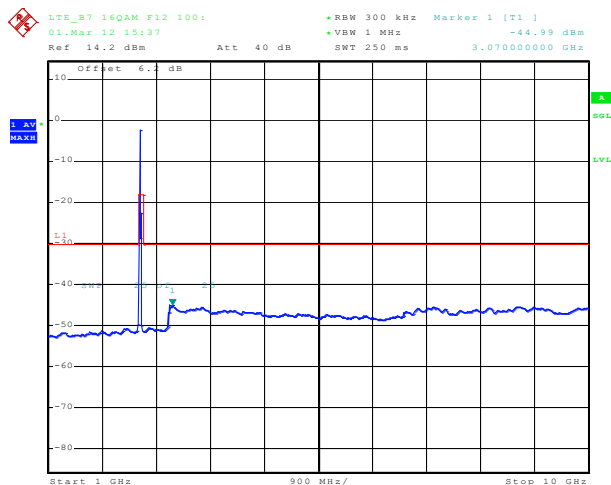
Date: 1.MAR.2012 15:36:13

# SIERRA WIRELESS, INC.

### 6.3.3.325 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, 16QAM, 10MHz to 1 GHz



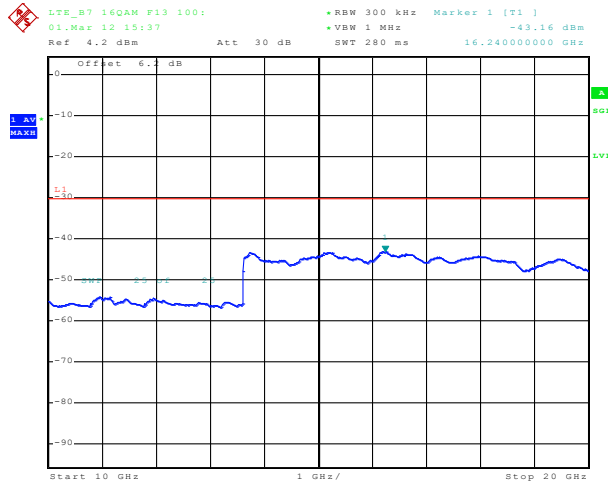
### 6.3.3.326 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, 16QAM, 1 GHz to 10 GHz



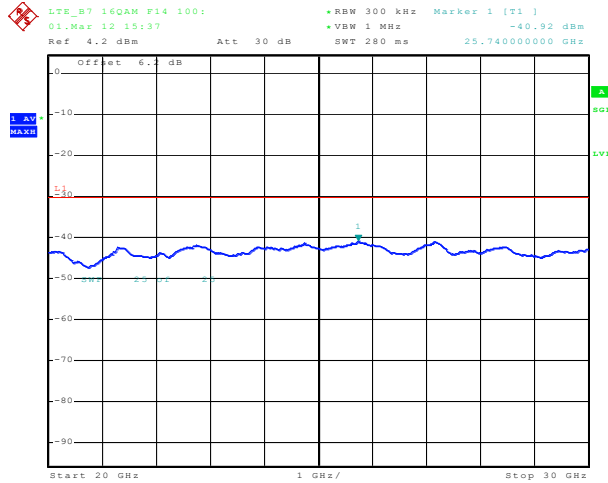
Note: The strong emission shown is the carrier signal.

# SIERRA WIRELESS, INC.

## 6.3.3.327 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, 16QAM, 10 GHz to 20 GHz

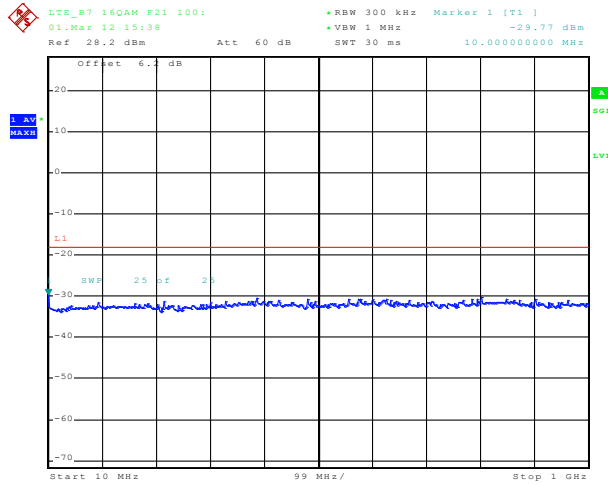


## 6.3.3.328 Out of Band Emissions at Antenna Terminals LTE B7, Mid channel, 2535.0 MHz, 20MHz BW, 100RB, 16QAM, 20 GHz to 30 GHz



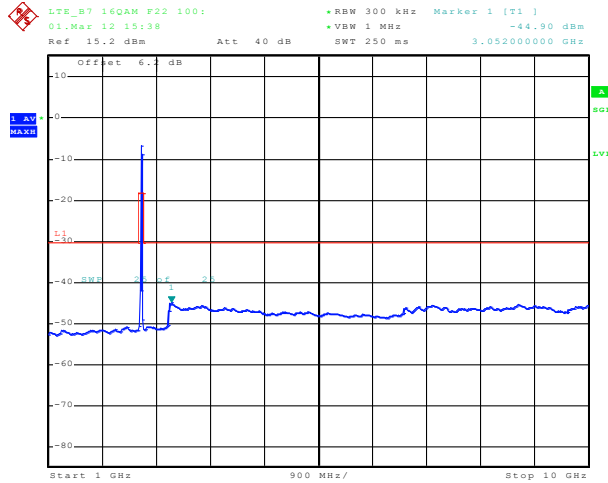
**SIERRA WIRELESS, INC.**

**6.3.3.329**     *Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, 16QAM, 10MHz to 1 GHz*



Date: 1.MAR.2012 15:38:04

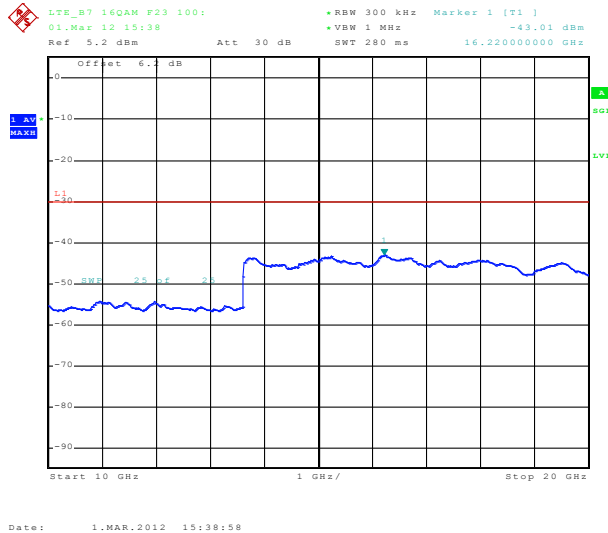
**6.3.3.330**     *Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, 16QAM, 1 GHz to 10 GHz*



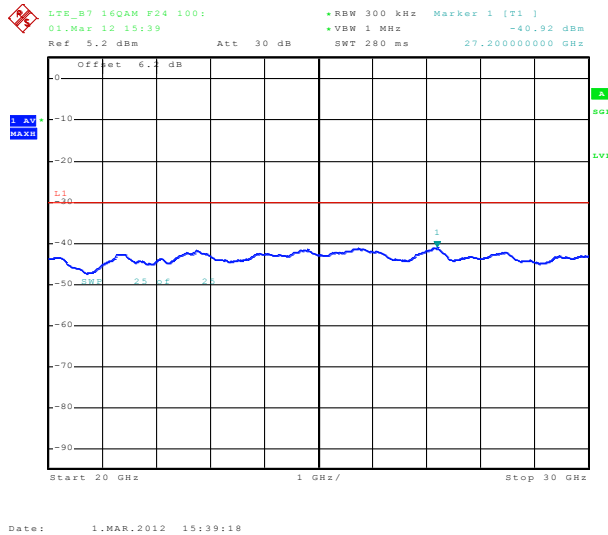
Date: 1.MAR.2012 15:38:35

Note: The strong emission shown is the carrier signal.

6.3.3.331 *Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, 16QAM, 10 GHz to 20 GHz*



6.3.3.332 *Out of Band Emissions at Antenna Terminals LTE B7, High channel, 2560.0 MHz, 20MHz BW, 100RB, 16QAM, 20 GHz to 30 GHz*



## 7 Block Edge Compliance

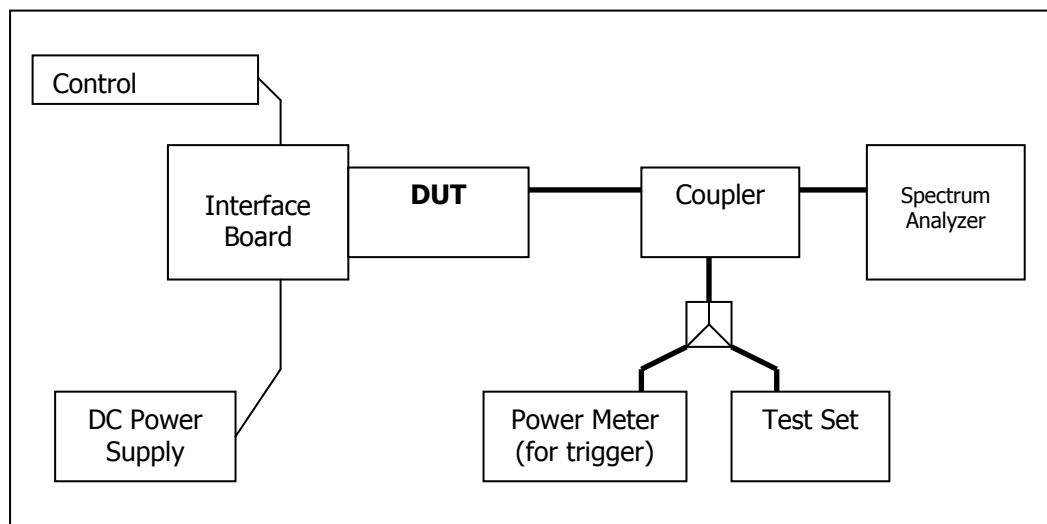
FCC Part 22(h)/24(e)/27.54(h)(m)

### 7.1 Test Procedure

The transmitter output was connected to a Rohde & Schwarz CMU200 Test Set (or CMW500 for LTE), through a coaxial RF cable and a directional coupler, and configured to operate at maximum power. The block edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

# SIERRA WIRELESS, INC.

## Test Setup



## 7.2 Test Equipment

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Control Computer	TC	Generic PC	100488	N/A
Wireless Test Set	Rohde & Schwarz	CMU200	117255	October 29, 2012
Wireless Test Set	Rohde & Schwarz	CMW500	101060	September 21, 2013
Spectrum Analyzer	Rohde & Schwarz	FSP	100060	October 31, 2012
DC Power Supply	HP	E3631A	KR94623948	N/A
Interface Board	Shop built	ATEMux	N/A	N/A
Directional Coupler	Pasternack	PE2209-10	N/A	N/A

# SIERRA WIRELESS, INC.

## 7.3 Test Results

Block Test	Frequency Boundaries (MHz)	Channels Tested	Corresponding Plots	Result
GMSK	Below 824 MHz, above 849 MHz	128, 251	7.3.1.1, 7.3.1.2	Complies
	Below 1850MHz, above 1910MHz	512, 810	7.3.1.5, 7.3.1.6	Complies
8PSK	Below 824 MHz, above 849 MHz	128, 251	7.3.1.3, 7.3.1.4	Complies
	Below 1850MHz, above 1910MHz	512, 810	7.3.1.7, 7.3.1.8	Complies

Block Test	Frequency Boundaries (MHz)	Channels Tested	Corresponding Plots	Result
WCDMA	Below 824MHz, above 849MHz	4132, 4233	7.3.2.1, 7.3.2.2	Complies
	Below 1850MHz, above 1910MHz	9262, 9538	7.3.2.3, 7.3.2.4	Complies

**SIERRA WIRELESS, INC.**

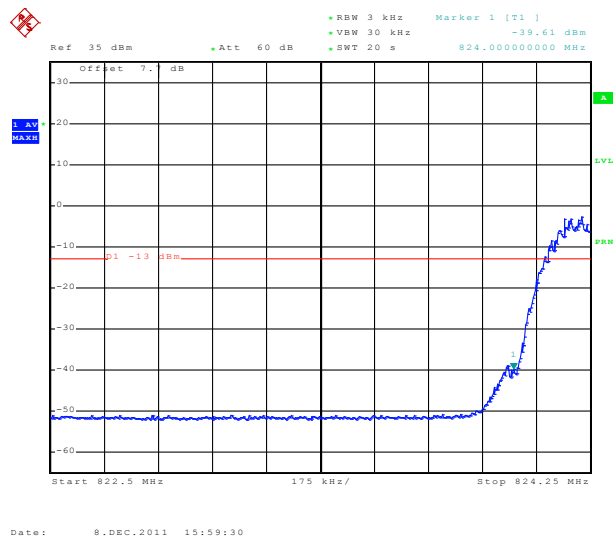
Band	Modulation	BW	#RB	RB Offset	Freq (MHz)	Channel	Plot#
B4	QPSK	10	1	0	1715	20000	7.3.3.1
				49	1750	20350	7.3.3.2
			50	0	1715	20000	7.3.3.3
					1750	20350	7.3.3.4
		20	1	0	1720	20050	7.3.3.17
				99	1745	20300	7.3.3.18
			100	0	1720	20050	7.3.3.19
					1745	20300	7.3.3.20
B7	QPSK	10	1	0	2505	20800	7.3.3.9
				49	2565	21400	7.3.3.10
			50	0	2505	20800	7.3.3.11
					2565	21400	7.3.3.12
		20	1	0	2510	20850	7.3.3.25
				99	2560	21350	7.3.3.26
			100	0	2510	20850	7.3.3.27
					2560	21350	7.3.3.28
B4	16QAM	10	1	0	1715	20000	7.3.3.13
				49	1750	20350	7.3.3.14
			50	0	1715	20000	7.3.3.15
					1750	20350	7.3.3.16
		20	1	0	1720	20050	7.3.3.21
				99	1745	20300	7.3.3.22
			100	0	1720	20050	7.3.3.23
					1745	20300	7.3.3.24
B7	16QAM	10	1	0	2505	20800	7.3.3.5
				49	2565	21400	7.3.3.6
			50	0	2505	20800	7.3.3.7
					2565	21400	7.3.3.8
		20	1	0	2510	20850	7.3.3.29
				99	2560	21350	7.3.3.30
			100	0	2510	20850	7.3.3.31
					2560	21350	7.3.3.32



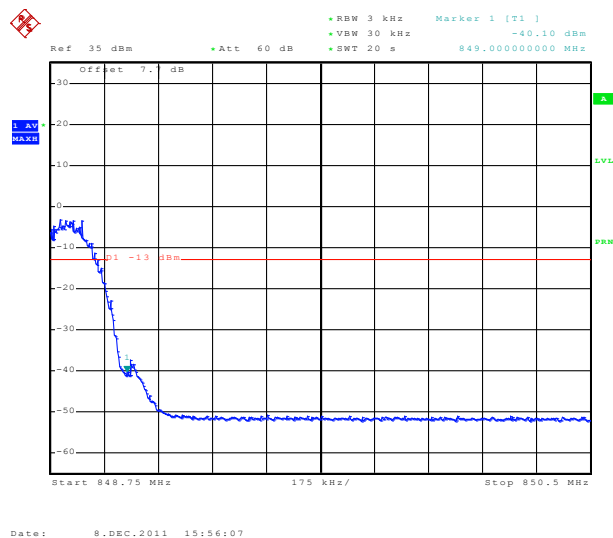
# SIERRA WIRELESS, INC.

## 7.3.1 GSM Test Plots

### 7.3.1.1 GSMK; Cellular low channel, below 824 MHz

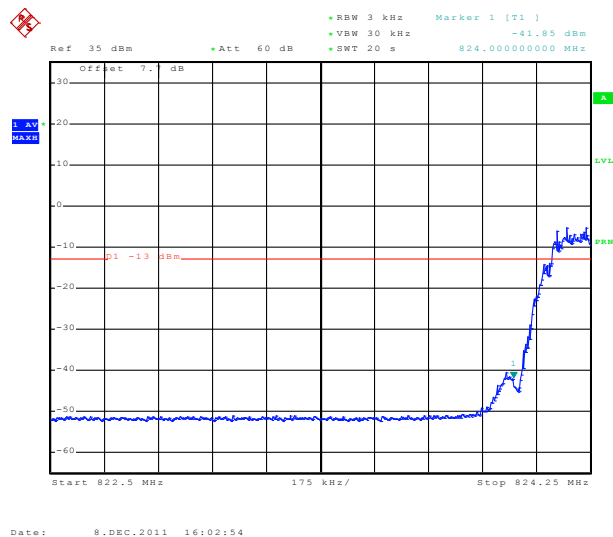


### 7.3.1.2 GMSK; Cellular high channel, above 849 MHz

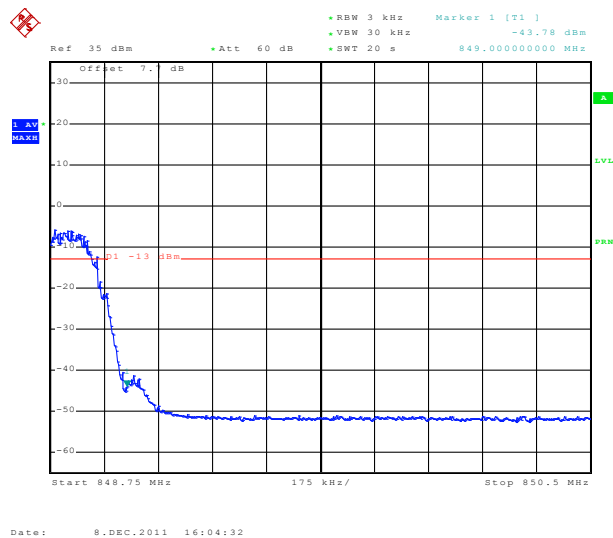


# SIERRA WIRELESS, INC.

## 7.3.1.3 8-PSK; Cellular low channel, below 824 MHz

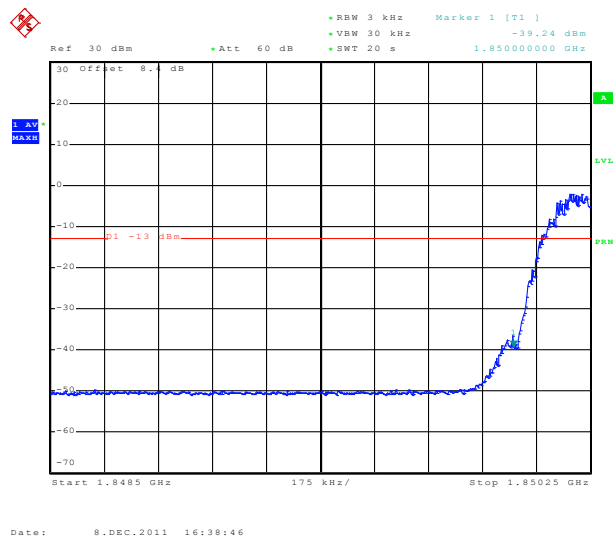


## 7.3.1.4 8-PSK; Cellular high channel, above 849 MHz

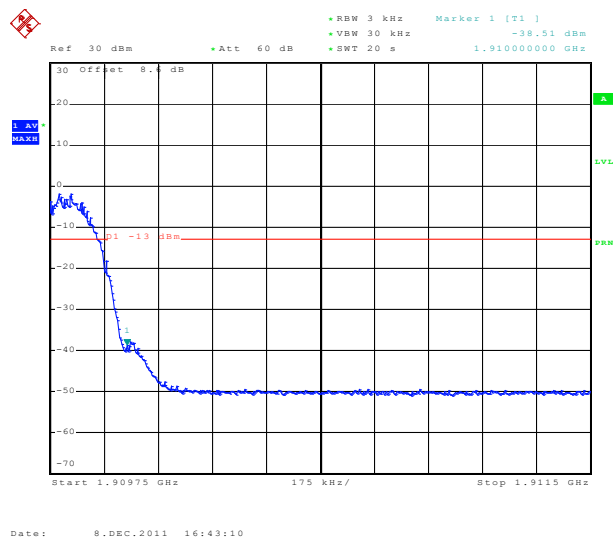


# SIERRA WIRELESS, INC.

## 7.3.1.5 GMSK; PCS low channel, below 1850 MHz

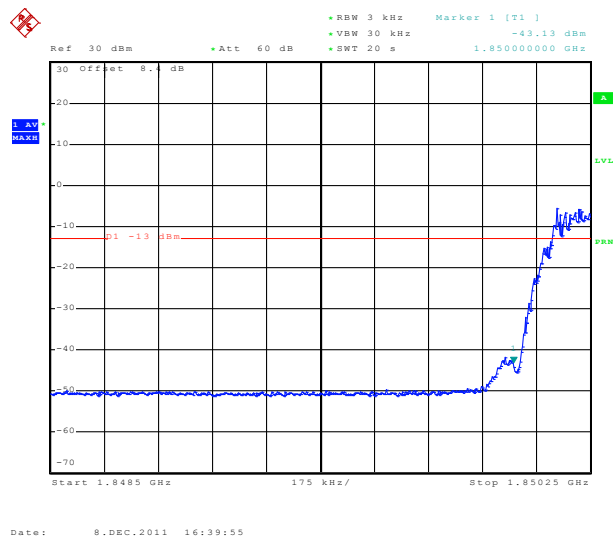


## 7.3.1.6 GMSK; PCS high channel, above 1910 MHz

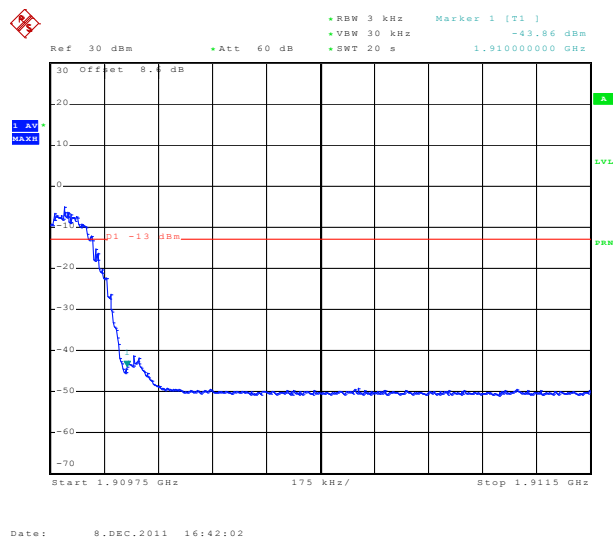


# SIERRA WIRELESS, INC.

## 7.3.1.7 8-PSK; PCS low channel, below 1850 MHz

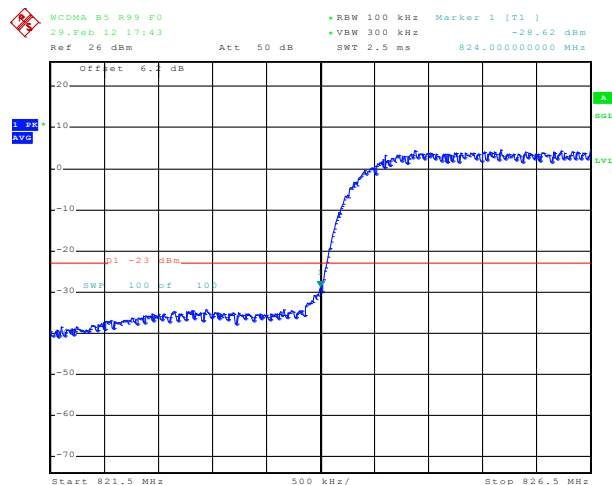


## 7.3.1.8 8-PSK; PCS high channel, above 1910 MHz



### 7.3.2 WCDMA Test Plots

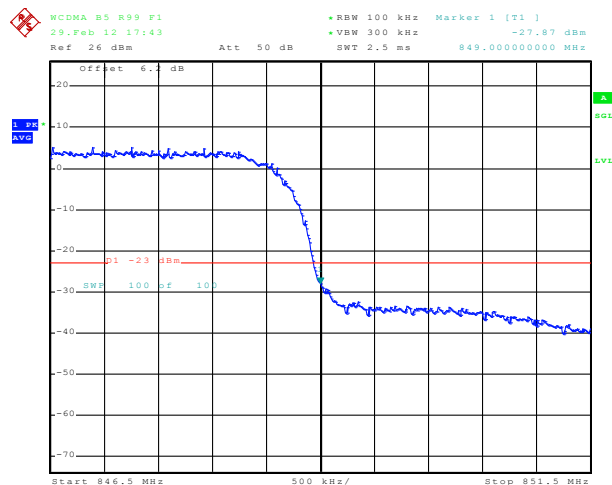
#### 7.3.2.1 WCDMA; Cellular low channel, below 824 MHz



Date: 29.FEB.2012 17:43:41

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

#### 7.3.2.2 WCDMA; Cellular high channel, above 849 MHz

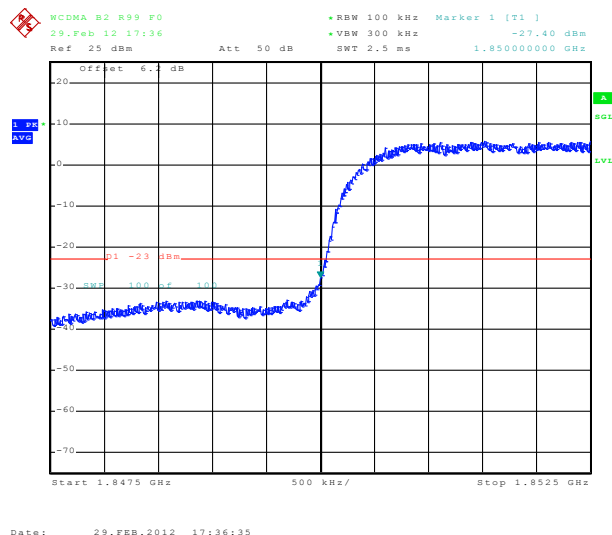


Date: 29.FEB.2012 17:43:53

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

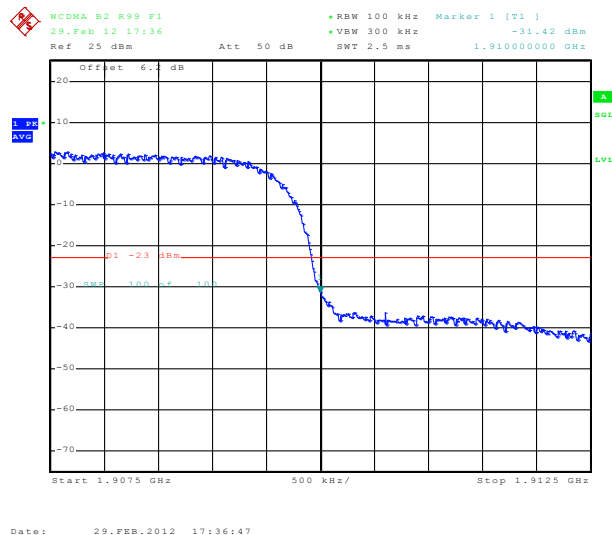
# SIERRA WIRELESS, INC.

## 7.3.2.3 WCDMA; PCS low channel, below 1850 MHz



Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.2.4 WCDMA; PCS high channel, above 1910 MHz



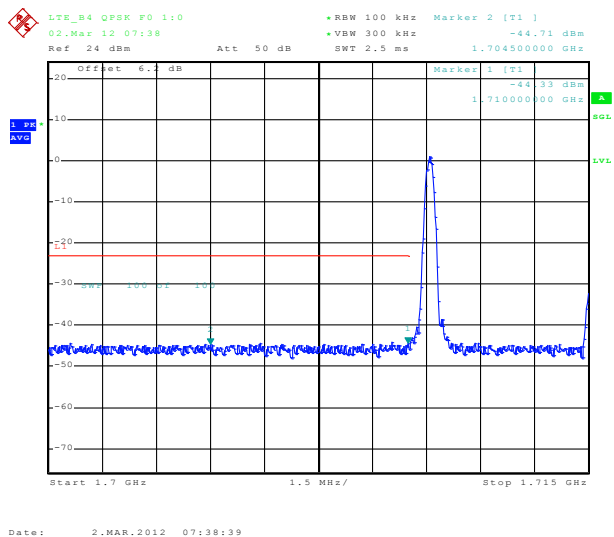
Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3 LTE Test Plots

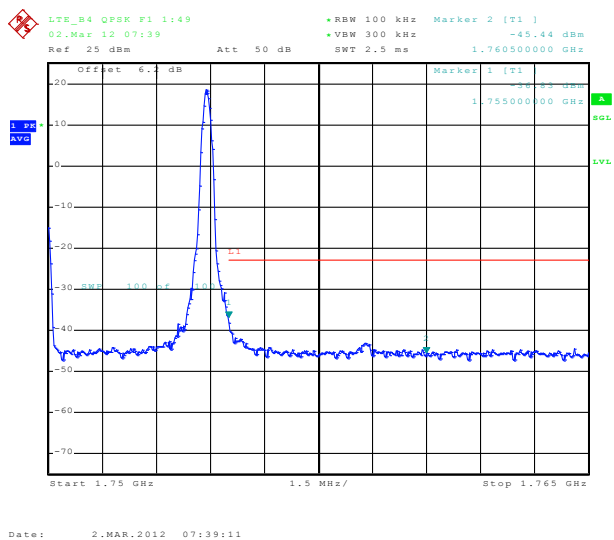
Note: Limits have been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

# SIERRA WIRELESS, INC.

## 7.3.3.1 LTE; Band4 below 1710 MHz, with ch20000, 10MHz, QPSK, 1RB, 0RB Offset

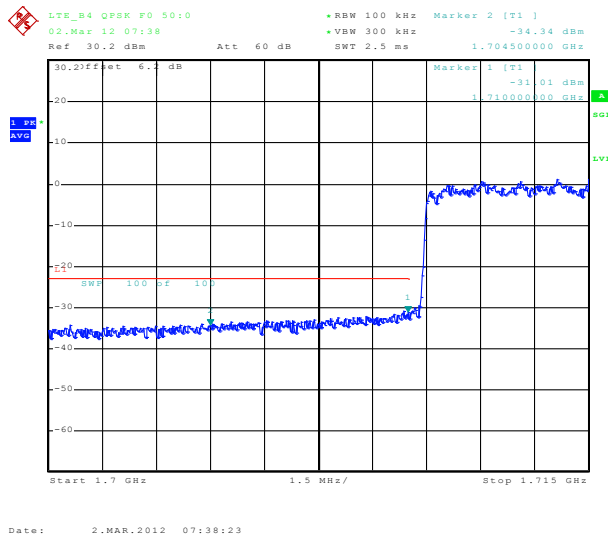


## 7.3.3.2 LTE; Band4 above 1755 MHz, with ch20350, 10MHz, QPSK, 1RB, 49RB Offset

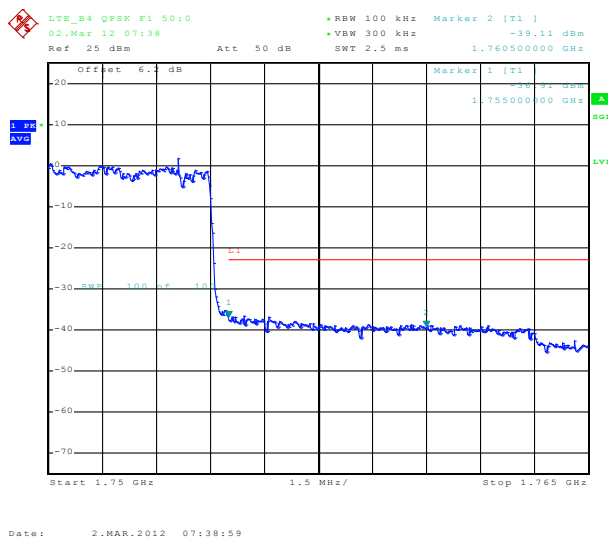


# SIERRA WIRELESS, INC.

## 7.3.3.3 LTE; Band4 below 1710 MHz, with ch20000, 10MHz, QPSK, 50RB



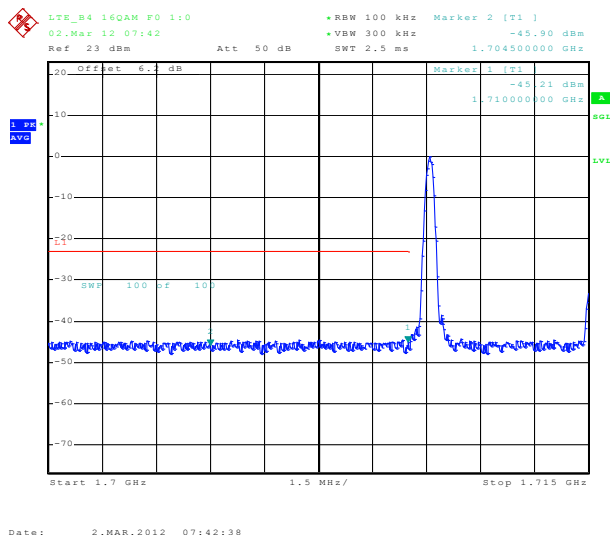
## 7.3.3.4 LTE; Band4 above 1755 MHz, with ch20350, 10MHz, QPSK, 50RB



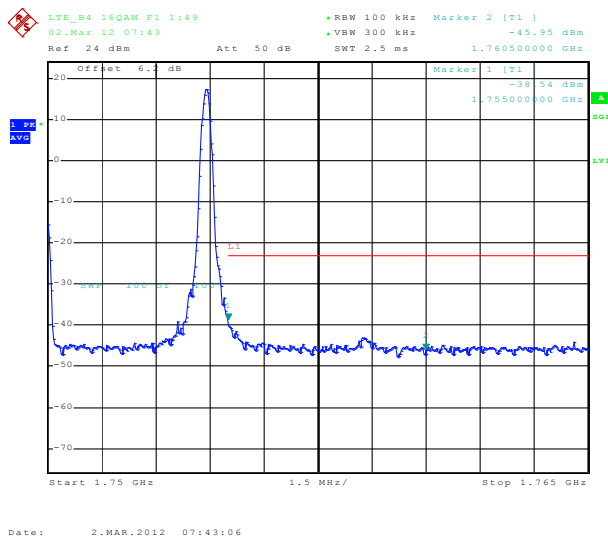


# SIERRA WIRELESS, INC.

## 7.3.3.5 LTE; Band4 below 1710 MHz, with ch20000, 10MHz, 16QAM, 1RB, 0RB Offset

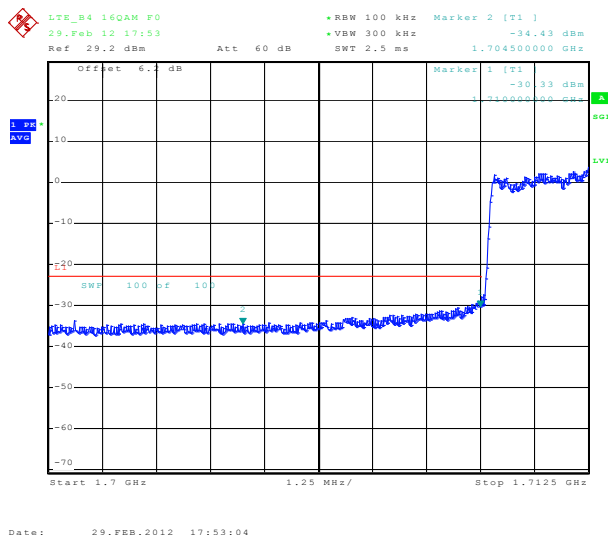


## 7.3.3.6 LTE; Band4 above 1755 MHz, with ch20350, 10MHz, 16QAM, 1RB, 49RB Offset



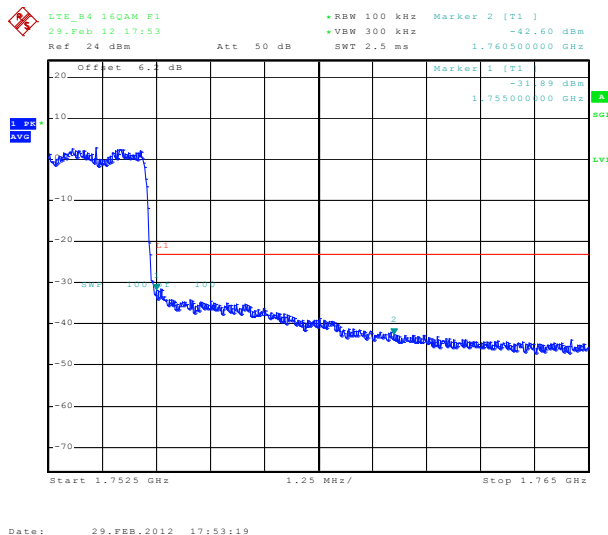
# SIERRA WIRELESS, INC.

## 7.3.3.7 LTE; Band4 below 1710 MHz, with ch20000, 10MHz, 16QAM, 50RB



Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

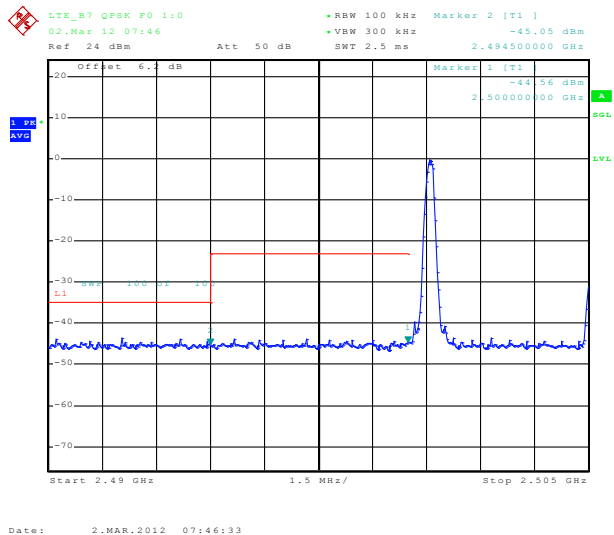
## 7.3.3.8 LTE; Band4 above 1755 MHz, with ch20350, 10MHz, 16QAM, 50RB



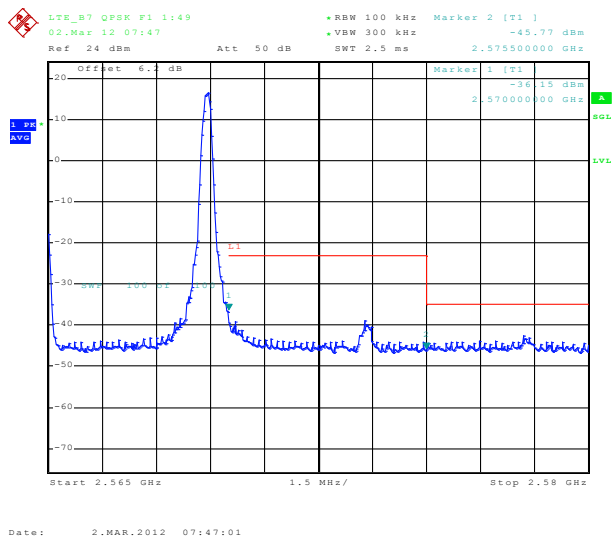
Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

# SIERRA WIRELESS, INC.

## 7.3.3.9 LTE; Band7 below 2500 MHz, with ch20800, 10MHz, QPSK, 1RB, 0RB Offset

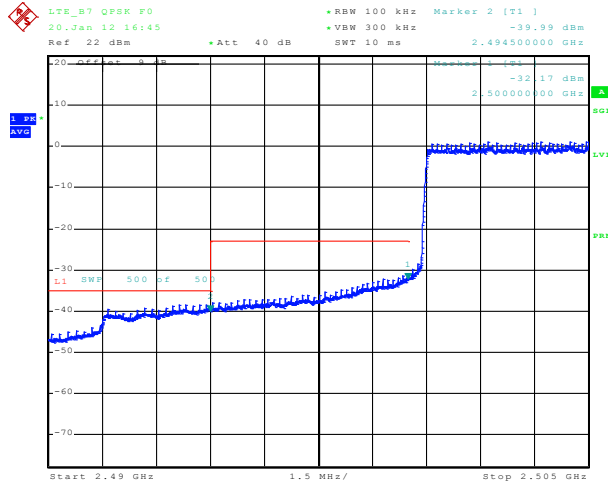


## 7.3.3.10 LTE; Band7 above 2570 MHz, with ch21400, 10MHz, QPSK, 1RB, 49RB Offset



# SIERRA WIRELESS, INC.

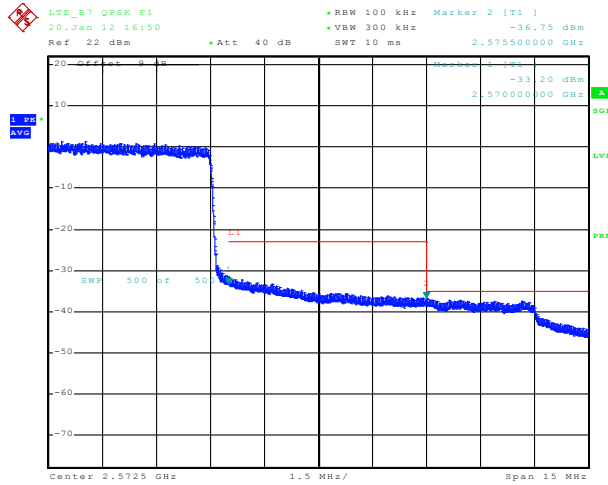
## 7.3.3.11 LTE; Band7 below 2500 MHz, with ch20800, 10MHz, QPSK, 50RB



Date: 20.JAN.2012 16:45:31

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3.12 LTE; Band7 above 2570 MHz, with ch21400, 10MHz, QPSK, 50RB

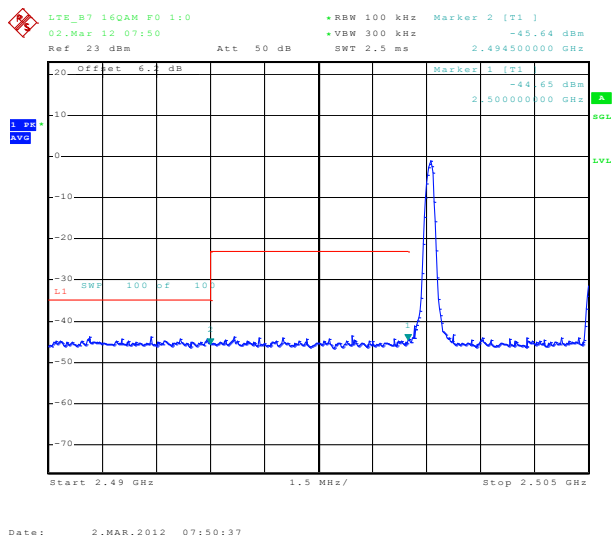


Date: 20.JAN.2012 16:50:37

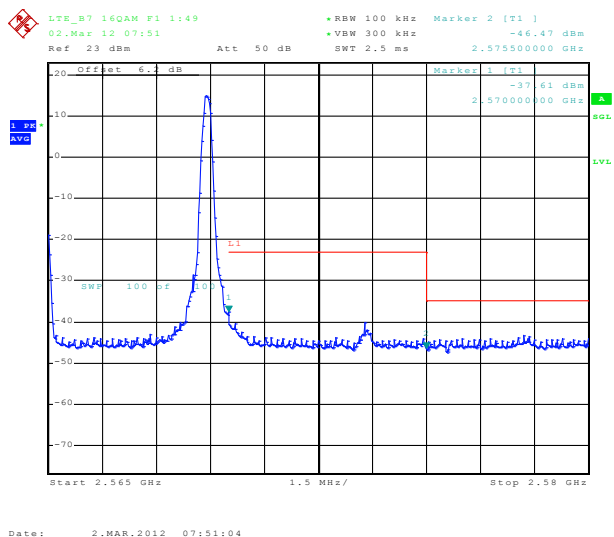
Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

# SIERRA WIRELESS, INC.

## 7.3.3.13 LTE; Band7 below 2500 MHz, with ch20800, 10MHz, 16QAM, 1RB, 0RB Offset

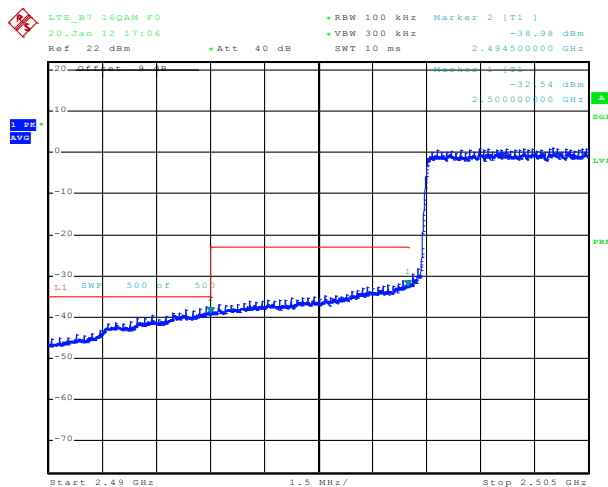


## 7.3.3.14 LTE; Band7 above 2570 MHz, with ch21400, 10MHz, 16QAM, 1RB, 49RB Offset



# SIERRA WIRELESS, INC.

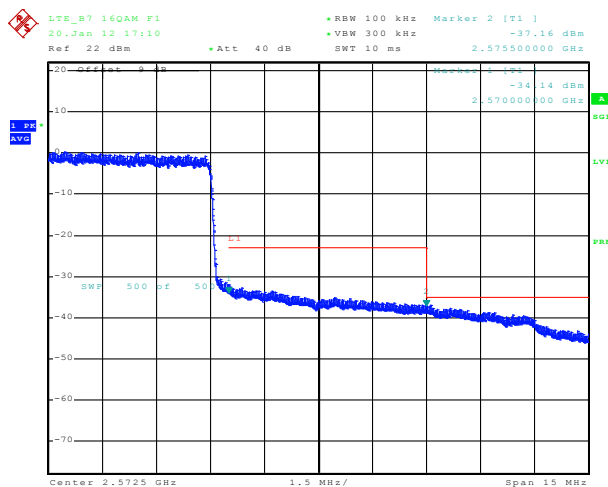
## 7.3.3.15 LTE; Band7 below 2500 MHz, with ch20800, 10MHz, 16QAM, 50RB



Date: 20.JAN.2012 17:06:10

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3.16 LTE; Band7 above 2570 MHz, with ch21400, 10MHz, 16QAM, 50RB

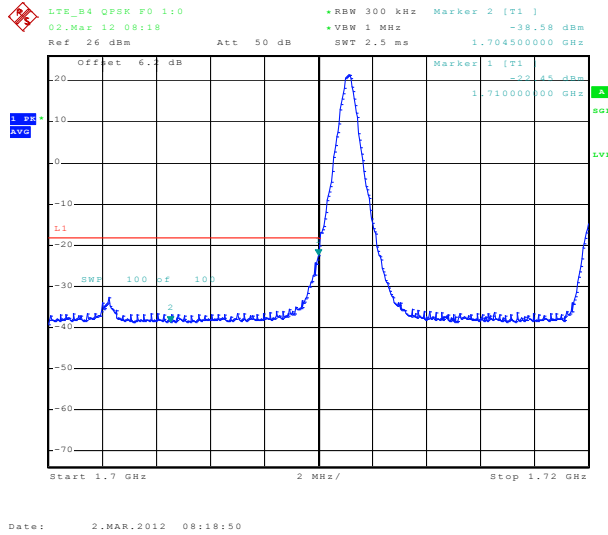


Date: 20.JAN.2012 17:11:02

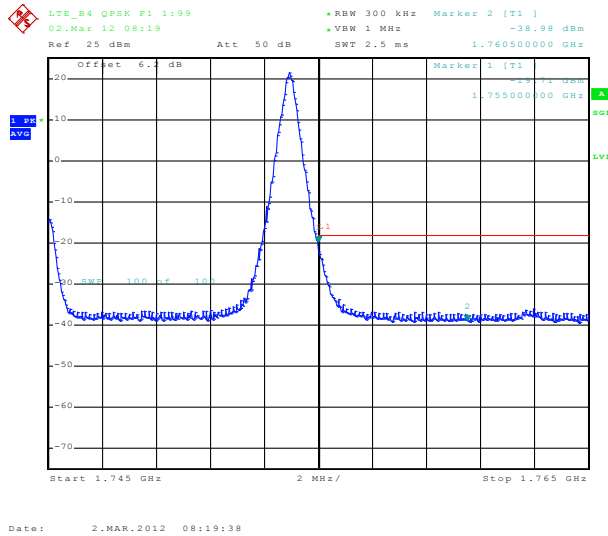
Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

# SIERRA WIRELESS, INC.

## 7.3.3.17 LTE; Band4 below 1710 MHz, with ch20050, 20MHz, QPSK, 1RB, 0RB Offset

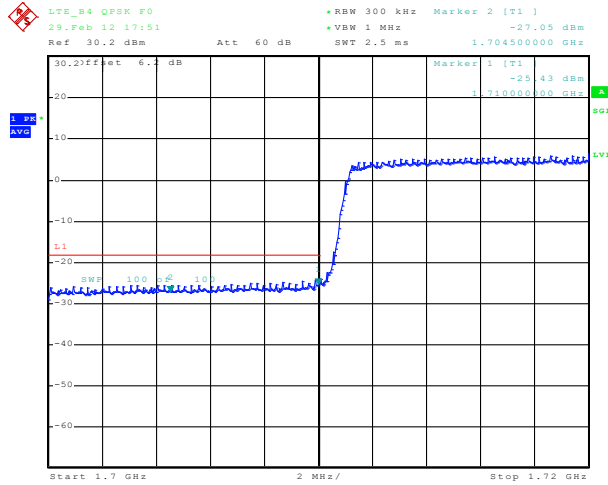


## 7.3.3.18 LTE; Band4 above 1755 MHz, with ch20300, 20MHz, QPSK, 1RB, 99RB Offset



# SIERRA WIRELESS, INC.

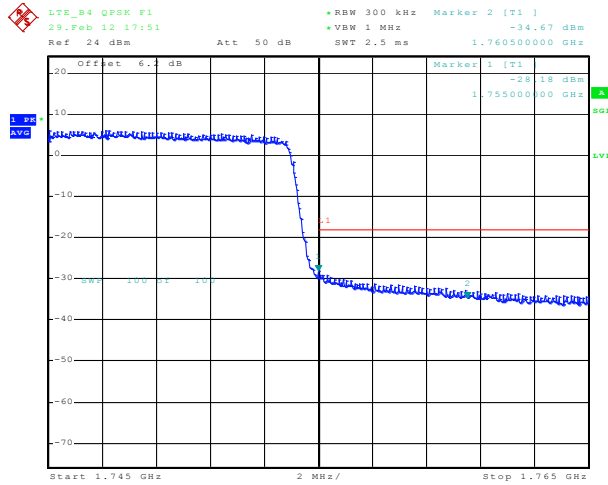
## 7.3.3.19 LTE; Band4 below 1710 MHz, with ch20050, 20MHz, QPSK, 100RB



Date: 29.FEB.2012 17:51:34

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3.20 LTE; Band4 above 1755 MHz, with ch20300, 20MHz, QPSK, 100RB



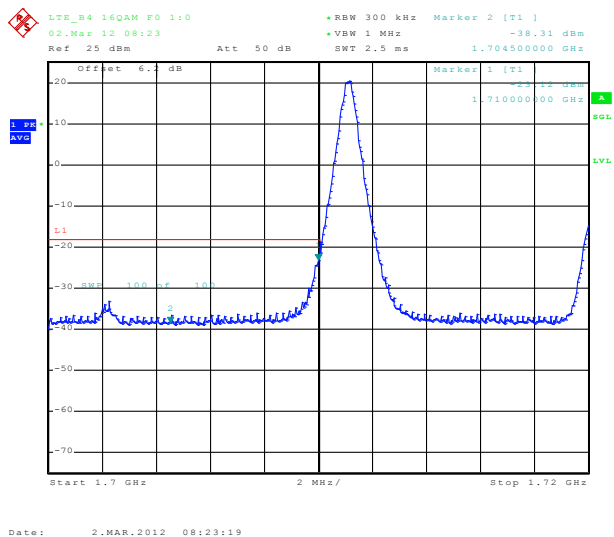
Date: 29.FEB.2012 17:51:55

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

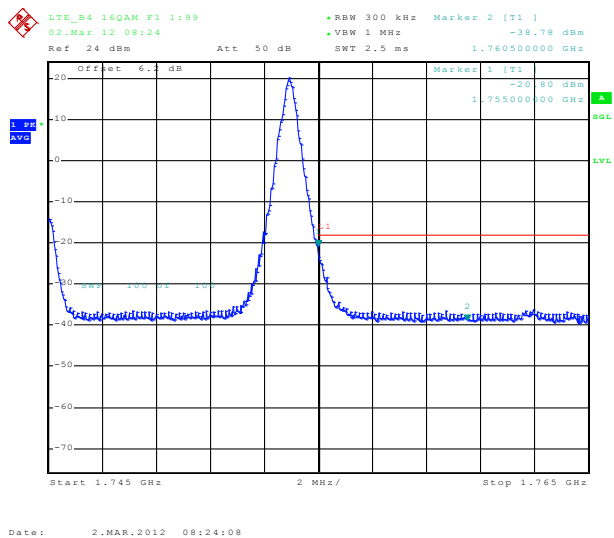


# SIERRA WIRELESS, INC.

## 7.3.3.21 LTE; Band4 below 1710 MHz, with ch20050, 20MHz, 16QAM, 1RB, 0RB Offset

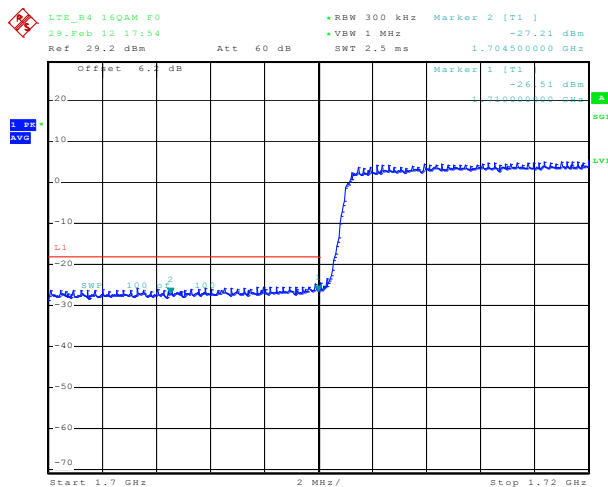


## 7.3.3.22 LTE; Band4 above 1755 MHz, with ch20350, 20MHz, 16QAM, 1RB, 99RB Offset



# SIERRA WIRELESS, INC.

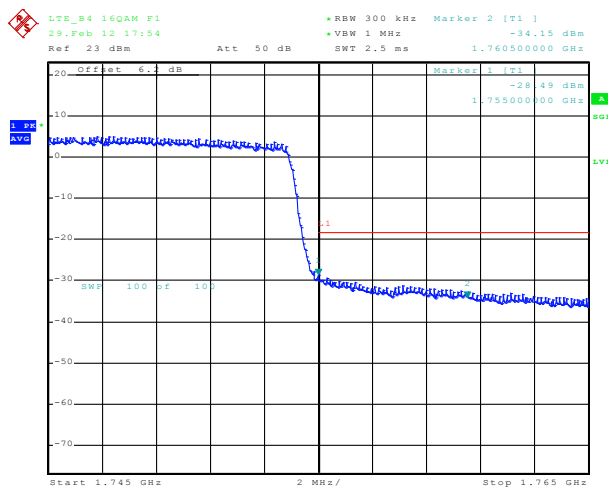
## 7.3.3.23 LTE; Band4 below 1710 MHz, with ch20050, 20MHz, 16QAM, 100RB



Date: 29.FEB.2012 17:54:36

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3.24 LTE; Band4 above 1755 MHz, with ch20350, 20MHz, 16QAM, 100RB

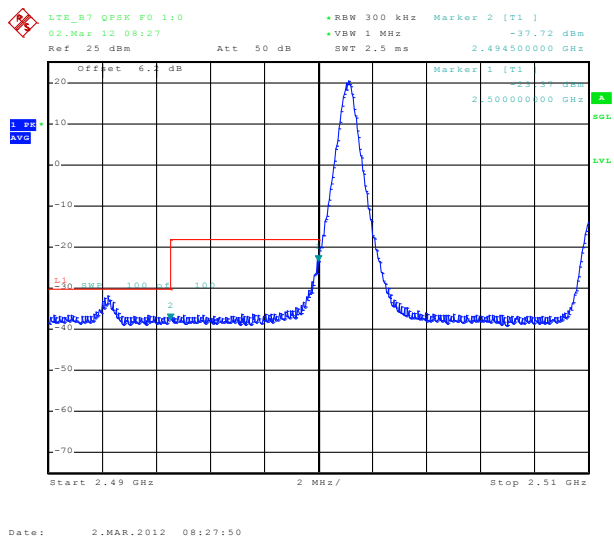


Date: 29.FEB.2012 17:54:57

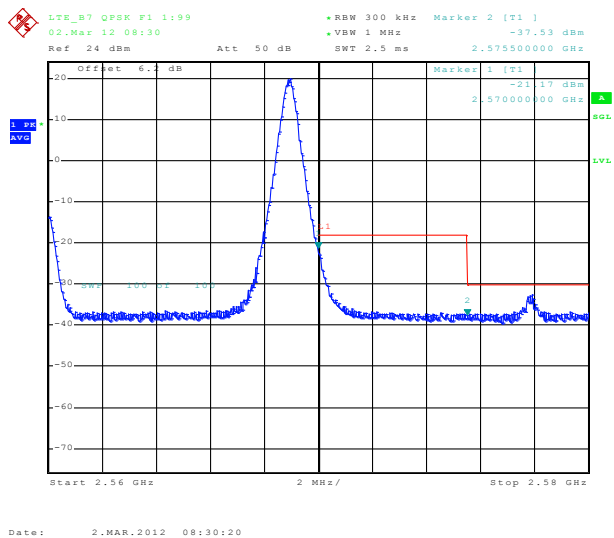
Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

# SIERRA WIRELESS, INC.

## 7.3.3.25 LTE; Band7 below 2500 MHz, with ch20850, 20MHz, QPSK, 1RB, 0RB Offset

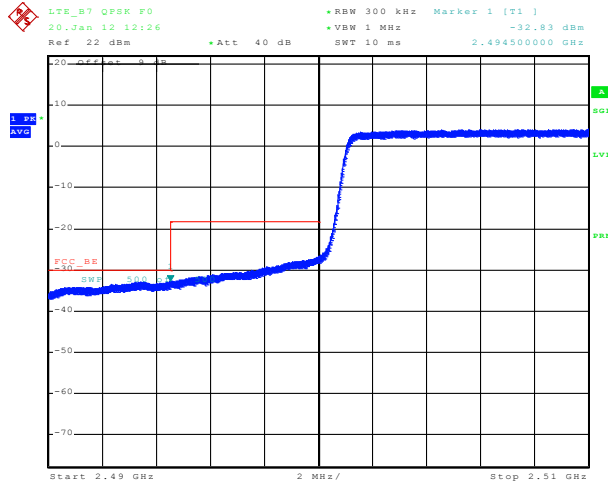


## 7.3.3.26 LTE; Band7 above 2570 MHz, with ch21350, 20MHz, QPSK, 1RB, 99RB Offset



# SIERRA WIRELESS, INC.

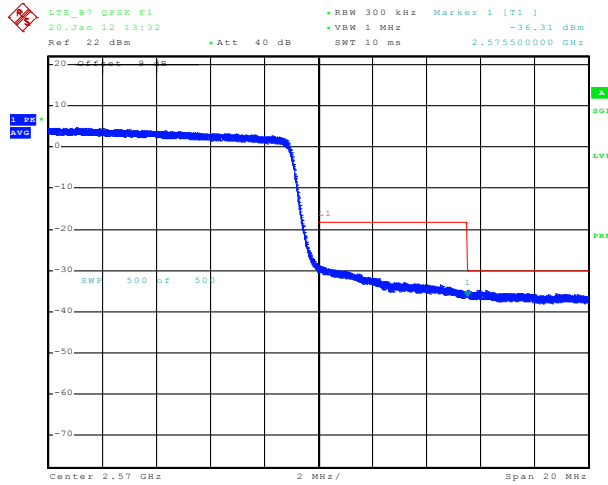
## 7.3.3.27 LTE; Band7 below 2500 MHz, with ch20850, 20MHz, QPSK, 100RB



Date: 20.JAN.2012 12:26:04

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3.28 LTE; Band7 above 2570 MHz, with ch21350, 20MHz, QPSK, 100RB

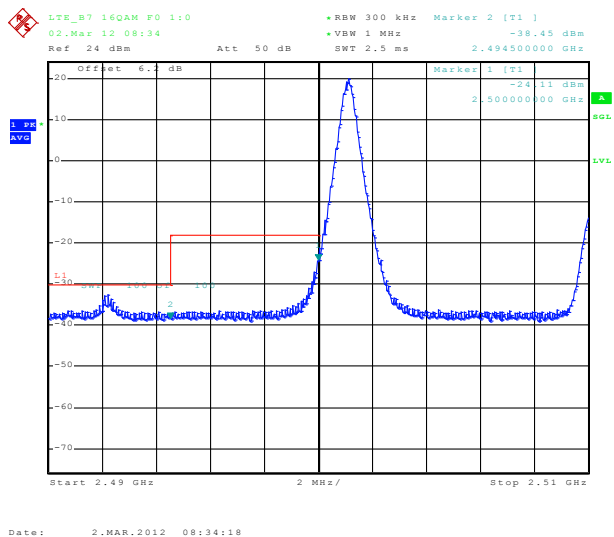


Date: 20.JAN.2012 13:32:26

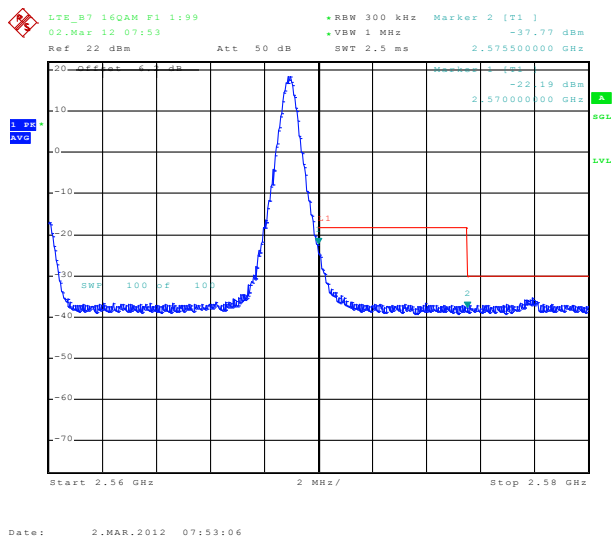
Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

# SIERRA WIRELESS, INC.

## 7.3.3.29 LTE; Band7 below 2500 MHz, with ch20850, 20MHz, 16QAM, 1RB, 0RB Offset

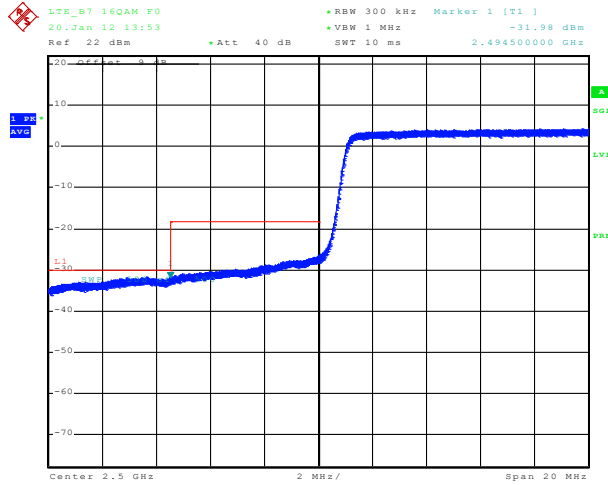


## 7.3.3.30 LTE; Band7 above 2570 MHz, with ch21350, 20MHz, 16QAM, 1RB, 99RB Offset



# SIERRA WIRELESS, INC.

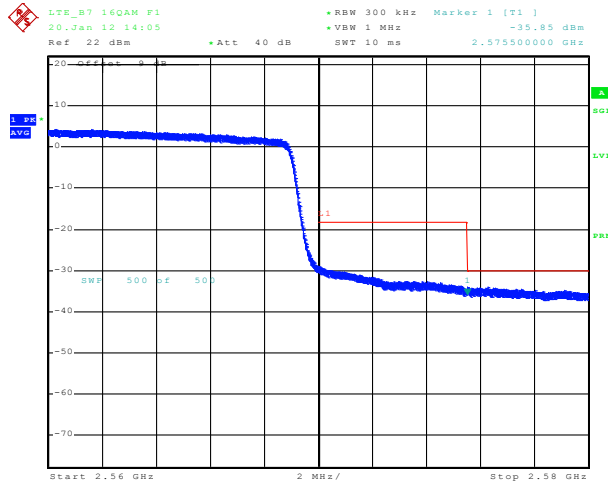
## 7.3.3.31 LTE; Band7 below 2500 MHz, with ch20850, 20MHz, 16QAM, 100RB



Date: 20.JAN.2012 13:53:32

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 7.3.3.32 LTE; Band7 above 2570 MHz, with ch21350, 20MHz, 16QAM, 100RB



Date: 20.JAN.2012 14:05:31

# SIERRA WIRELESS, INC.

Note: Limit has been adjusted by  $10 \cdot \log(\text{RBW})$  to reflect a 1 MHz measurement bandwidth.

## 8 Frequency Stability versus Temperature

FCC 2.1055, FCC 22.355, FCC 24.235, FCC 27.54

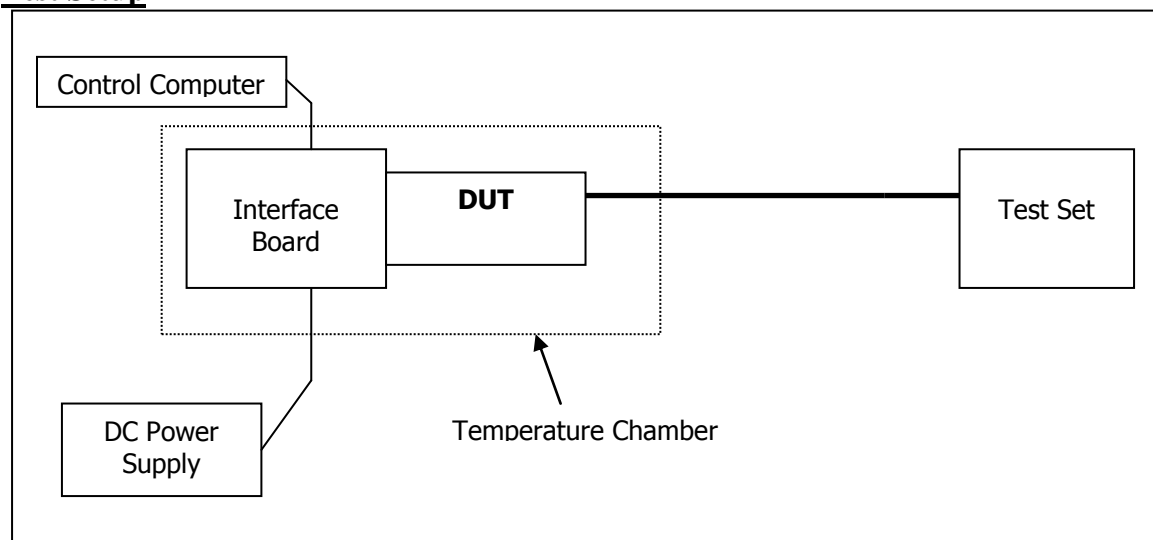
### 8.1 Summary of Results

The EUT's Frequency Stability versus temperature meets the requirements of less than 2.5ppm when temperature varies from -30°C to +50°C.

### 8.2 Test Procedure

The EUT was placed inside a temperature chamber. The temperature was set to -30°C and maintained to stabilize. After sufficient soak time, the transmitting frequency error was measured. The temperature was then increased by 10 degrees, maintained to stabilize, and the measurement was repeated. This procedure was repeated until +50°C is reached. Frequency metering included internal averaging of the CMU200 (for GSM/WCDMA) or the CMW500 (for LTE) to stabilize the reading. Reference power supply voltage for these tests is 5.0 volts.

### Test Setup



### 8.3 Test Equipment

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Control Computer	TC	Generic PC	100488	N/A
Wireless Test Set	Rohde & Schwarz	CMU200	117255	October 29, 2012
Wireless Test Set	Rohde & Schwarz	CMW500	101060	September 21, 2013
Spectrum Analyzer	Rohde & Schwarz	FSP	100060	October 31, 2012
DC Power Supply	HP	E3631A	KR94623948	N/A
Interface Board	Shop built	ATEMux	N/A	N/A

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# SIERRA WIRELESS, INC.

Directional Coupler	Pasternack	PE2209-10	N/A	N/A
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## 8.4 Test Results

### 8.4.1 GSM Frequency Error over Temperature

Temp (°C)	Cellular Band: 824MHz to 848MHz				PCS Band: 1850MHz to 1910MHz			
	GMSK Mode		8PSK Mode		GMSK Mode		8PSK Mode	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
-30	-2.65	-0.0032	7.65	0.0092	27.44	0.0146	39.49	0.0210
-20	-7.49	-0.0090	12.68	0.0152	34.59	0.0184	43.91	0.0234
-10	16.14	0.0193	13.75	0.0164	38.58	0.0205	41.95	0.0223
0	18.68	0.0223	18.94	0.0227	42.67	0.0227	43.53	0.0232
10	13.04	0.0156	14.62	0.0175	43.86	0.0233	45.55	0.0242
20	15.17	0.0181	17.69	0.0212	44.51	0.0237	45.92	0.0244
30	13.3	0.0159	-3.75	-0.0045	42.60	0.0227	44.01	0.0234
40	-4.97	-0.0059	-4.29	-0.0051	41.10	0.0219	41.71	0.0222
50	-9.43	-0.0113	-12.43	-0.0149	39.52	0.0210	40.92	0.0218

### 8.4.2 UMTS Frequency Error over Temperature

Temp (°C)	UMTS Mode			
	850 MHz Band		1900 MHz Band	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
-30	0.95	0.0011	1.97	0.0011
-20	0.84	0.0010	2.59	0.0014
-10	1.13	0.0014	2.29	0.0012
0	0.99	0.0012	2.26	0.0012
10	1.51	0.0018	2.20	0.0012
20	1.69	0.0020	3.02	0.0016
30	1.69	0.0020	2.70	0.0014
40	0.64	0.0008	2.21	0.0012
50	0.50	0.0006	2.67	0.0014



**SIERRA WIRELESS, INC.**

*8.4.3 LTE Frequency Error over Temperature*

Temp (°C)	LTE Band 4				LTE Band 7			
	QPSK Mode		16QAM Mode		QPSK Mode		16QAM Mode	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
-30	-2.99	-0.0017	-2.78	-0.0016	-2.50	-0.0010	-2.21	-0.0009
-20	-3.73	0.0022	-3.55	-0.0021	-3.30	-0.0013	-3.05	-0.0012
-10	-3.89	-0.0023	-3.65	-0.0021	-2.55	-0.0010	-2.23	-0.0009
0	-3.05	-0.0013	-2.88	-0.0017	-3.00	-0.0012	-2.87	-0.0011
10	-5.39	-0.0031	-5.02	-0.0029	-2.52	-0.0010	-2.33	-0.0009
20	-1.83	-0.0011	-1.66	-0.0010	-2.16	-0.0009	-1.93	-0.0008
30	-3.55	-0.0021	-3.06	-0.0018	-3.18	-0.0012	-2.42	-0.0010
40	-2.29	-0.0013	-2.02	-0.0012	2.05	0.0008	1.82	0.0008
50	-3.73	-0.0022	-3.43	-0.0020	-2.25	-0.0009	-2.01	0.0008

## 9 Frequency Stability versus Voltage

FCC 2.1055, FCC 22.355, FCC 24.235, FCC 27.54

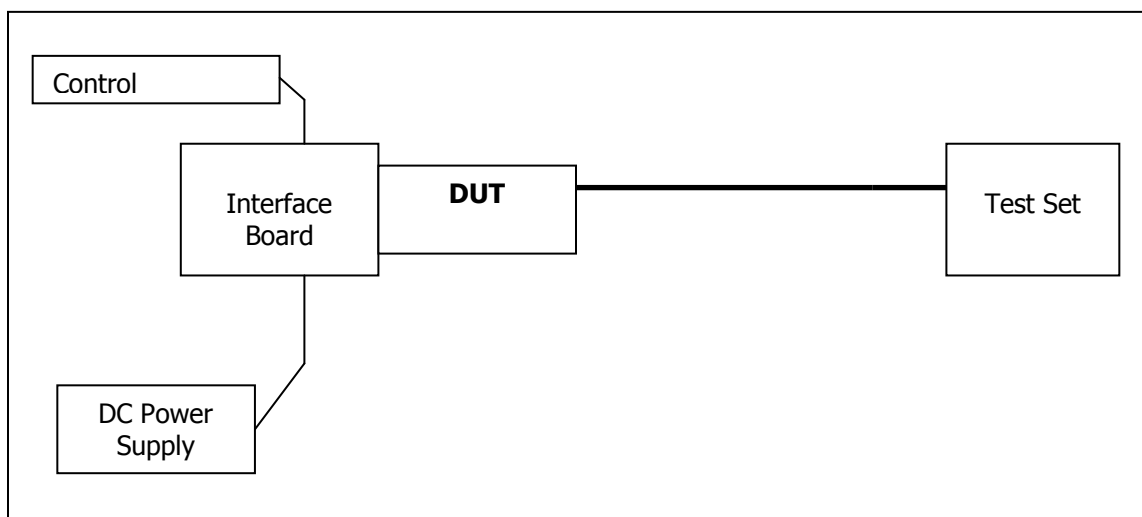
### 9.1 Summary of Results

The EUT is specified to operate with a supply voltage varying between 3.6VDC and 4.2VDC, having a nominal voltage of 3.9 VDC. It meets the frequency stability limit of less than 2.5ppm when supply voltage varies within the specified limits. Operation above or below these voltage limits will shut down the EUT, that is, the device cannot transmit above 4.2V or below 3.6V.

### 9.2 Test Procedure

The EUT was connected to a DC Power Supply and a UMTS test set (CMU 200, or LTE test set CMW500) with frequency error measurement capability. The power supply output was adjusted to the test voltage as measured at the input terminals to the device while transmitting. A voltmeter was used to confirm the terminal voltage. The peak frequency error is recorded (worst case). The test voltages are 3.6 volts to 4.2 volts.

### Test Setup



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## 9.3 Test Equipment

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Control Computer	TC	Generic PC	100488	N/A
Wireless Test Set	Rohde & Schwarz	CMU200	117255	October 29, 2012
Wireless Test Set	Rohde & Schwarz	CMW500	101060	September 21, 2013
Spectrum Analyzer	Rohde & Schwarz	FSP	100060	October 31, 2012
DC Power Supply	HP	E3631A	KR94623948	N/A
Interface Board	Shop built	ATEMux	N/A	N/A
Directional Coupler	Pasternack	PE2209-10	N/A	N/A

## 9.4 Test Results

### 9.4.1 GSM Frequency Error over Voltage

Voltage (V)	Cellular Band: 824MHz to 848MHz				PCS Band: 1850MHz to 1910MHz			
	GMSK Mode		8PSK Mode		GMSK Mode		8PSK Mode	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
3.6	5.49	0.0065	17.72	0.0209	46.04	0.0245	26.12	0.0137
3.9	-6.78	-0.0082	15.40	0.0181	46.30	0.0246	46.01	0.0245
4.2	-9.56	-0.0116	20.67	0.0247	41.58	0.0218	45.70	0.0244

### 9.4.2 UMTS Frequency Error over Voltage

Voltage (V)	850 MHz Band		1900 MHz Band	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
3.6	1.98	0.0024	3.25	0.0017
3.9	1.57	0.0019	3.49	0.0018
4.2	-2.01	-0.0024	3.86	0.0021

### 9.4.3 LTE Frequency Error over Voltage

Voltage (V)	LTE Band 4				LTE Band 7			
	QPSK Mode		16QAM Mode		QPSK Mode		16QAM Mode	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
3.6	-2.27	-0.0013	-2.57	-0.0015	-2.78	-0.0013	-1.43	-0.0006
3.9	-3.55	-0.0021	-3.06	-0.0018	-3.18	-0.0012	-2.42	-0.0010
4.2	-2.07	-0.0012	-1.92	-0.0011	-1.43	0.0006	2.59	0.0010

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## 10 Peak to Average Ratio

FCC 27.50(d)

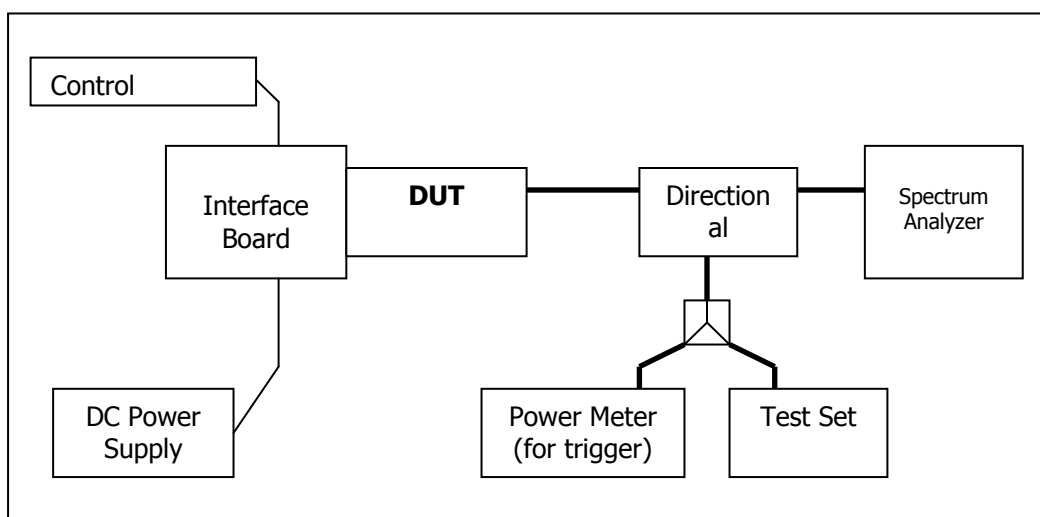
### 10.1 Summary of Results

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

### 10.2 Test Procedure

The transmitter output was connected to a Rohde & Schwarz CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each band on the Spectrum Analyzer. The measurement method was checked against KDB 971168 D01 to ensure the result was consistent.

### Test Setup



### 10.3 Test Equipment

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Control Computer	TC	Generic PC	100488	N/A
Wireless Test Set	Rohde & Schwarz	CMU200	117255	October 29, 2012
Wireless Test Set	Rohde & Schwarz	CMW500	101060	September 21, 2013
Spectrum Analyzer	Rohde & Schwarz	FSP	100060	October 31, 2012
DC Power Supply	HP	E3631A	KR94623948	N/A
Interface Board	Shop built	ATEMux	N/A	N/A
Directional Coupler	Pasternack	PE2209-10	N/A	N/A

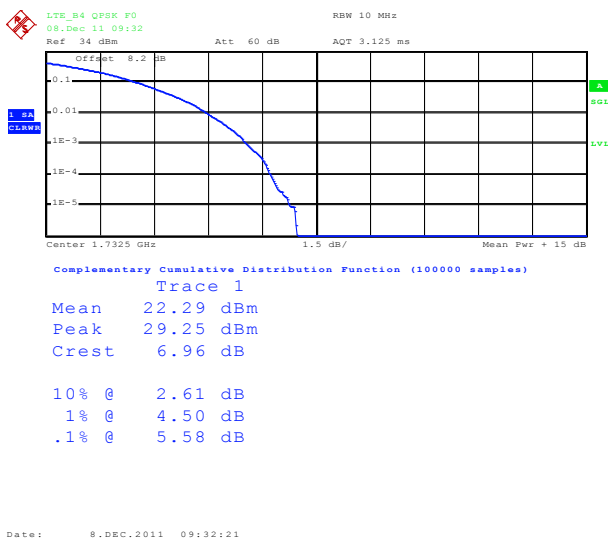
# SIERRA WIRELESS, INC.

## 10.4 Test Results

Frequency (MHz)	Channel	Modulation	BW	RB	Plots	Peak to Average Ratio (dB)
1732.5	20175	QPSK	10	50	10.4.1.1	5.58
1732.5	20175	16-QAM	10	50	10.4.1.2	6.30
2535.0	21100	QPSK	10	25	10.4.1.3	5.16
2535.0	21100	16-QAM	10	25	10.4.1.4	5.67

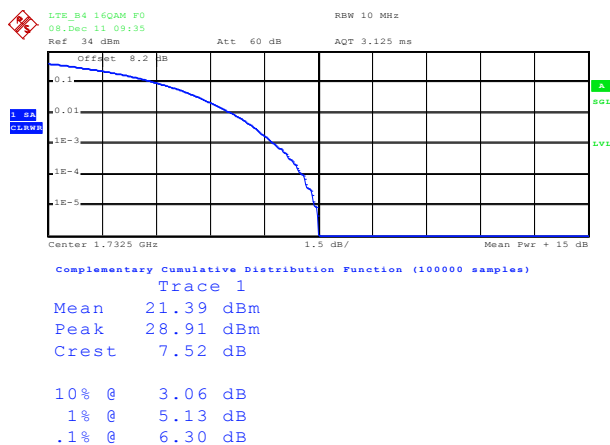
### 10.4.1 Test Plots

#### 10.4.1.1 LTE peak to average ratio, QPSK Band4, Mid channel, 1732.5 MHz, 10MHz BW, 50RB



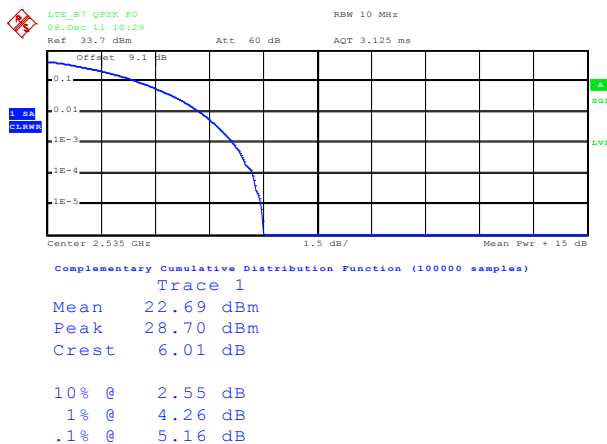
# SIERRA WIRELESS, INC.

## 10.4.1.2 LTE peak to average ratio, 16-QAM Band4, Mid channel, 1732.5 MHz, 10MHz BW, 50RB



Date: 8.DEC.2011 09:35:15

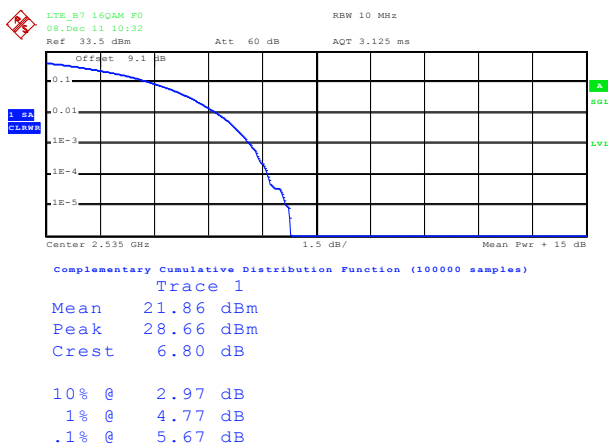
## 10.4.1.3 LTE peak to average ratio, QPSK Band7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB



Date: 8.DEC.2011 10:29:22

# SIERRA WIRELESS, INC.

## 10.4.1.4 LTE peak to average ratio, 16QAM Band7, Mid channel, 2535.0 MHz, 10MHz BW, 50RB



Date: 8.DEC.2011 10:32:15