Appendix E

Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & 22.917

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SYBH(Z-RF)014042012-2001

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1 For CDMA 800

1.1 Test Mode = TM1

1.1.1.1 Channel = B

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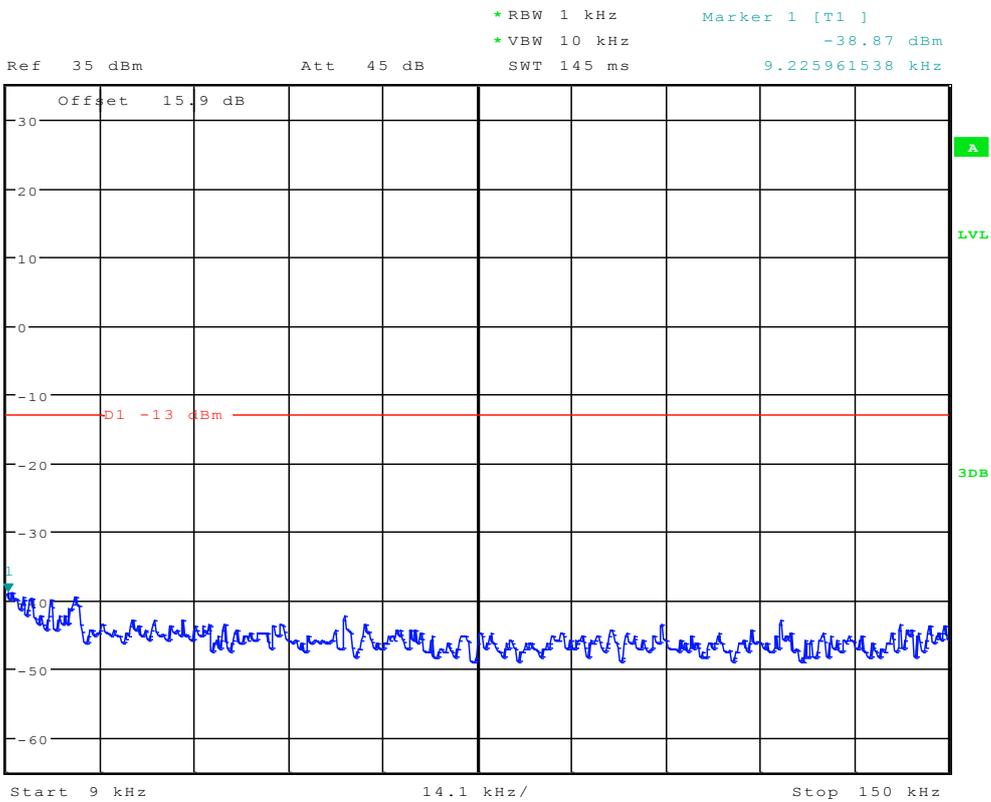
```
                                        *RBW  10 kHz      Marker 1 [T1 ]
                                        *VBW  30 kHz                -34.76 dBm
         Ref   35 dBm        Att   45 dB   SWT  300 ms    150.000000000 kHz

         Offset   15.9 dB                                                    A
     -30

 1 PK  -20                                                                  LVL
 MAXH
     -10

      0

    -10
             D1 -13 dBm                                                     3DB
    -20

    -30

    -50

    -60

    Start  150 kHz            2.985 MHz/            Stop  30 MHz
```
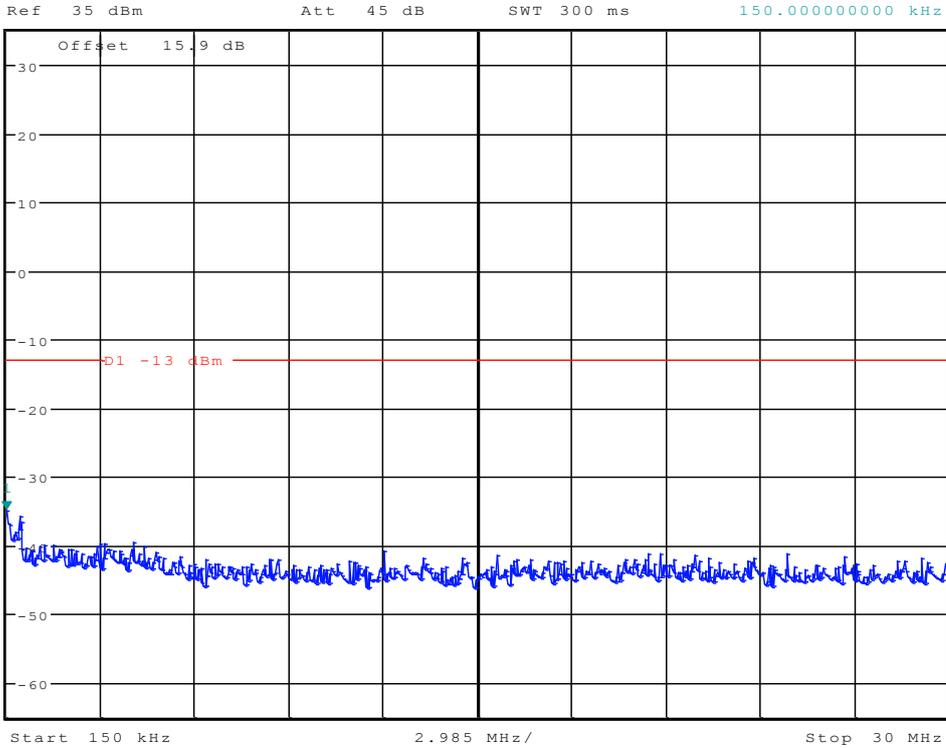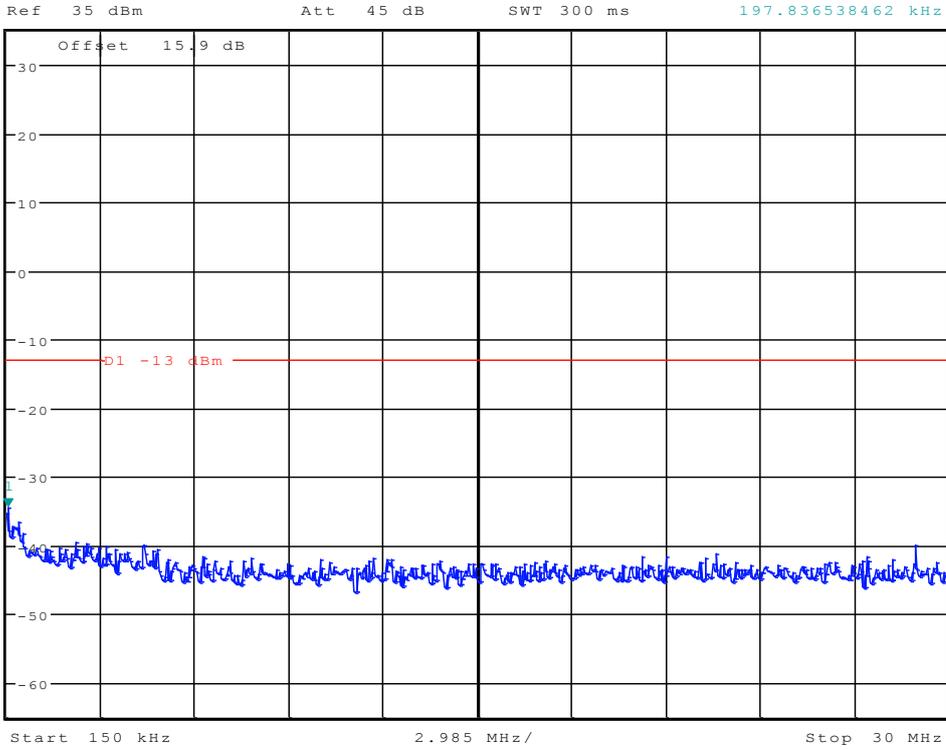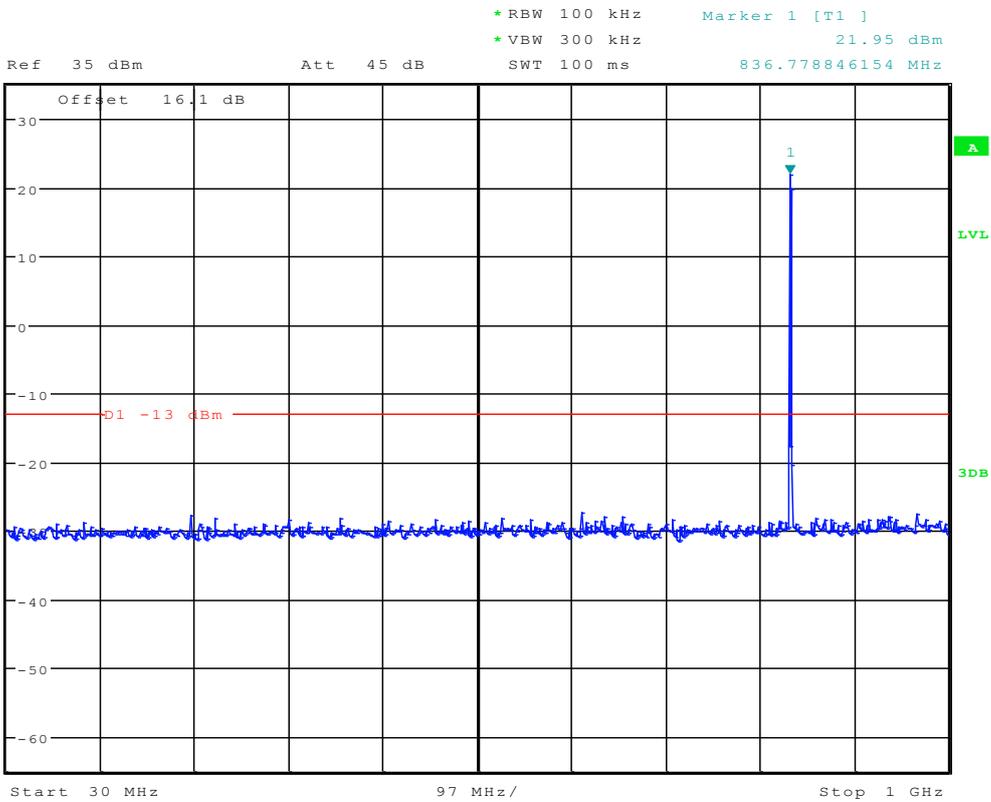
Date: 13.APR.2012 23:08:07

Date: 13.APR.2012 23:08:33

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1.1.1.2 Channel = M

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Date: 13.APR.2012 23:09:07

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1.1.1.3 Channel =T


```
                                         * RBW  1 kHz        Marker 1 [T1 ]
                                         * VBW  10 kHz              -38.67 dBm
        Ref   35 dBm          Att   45 dB  SWT  145 ms       10.129807692 kHz

        Offset   15.9 dB
```

Date: 13.APR.2012 23:07:58

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Date: 13.APR.2012 23:09:15

1.2 Test Mode = TM3

1.2.1.1 Channel = B

```
* RBW  1 kHz          Marker 1 [T1 ]
* VBW  10 kHz                -37.48 dBm
Ref  35 dBm        Att  45 dB   SWT  145 ms      9.677884615 kHz
```



```
Date: 13.APR.2012  23:09:26
```

```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                 -33.32 dBm
        Ref  35 dBm        Att  45 dB    SWT  300 ms     197.836538462 kHz
```
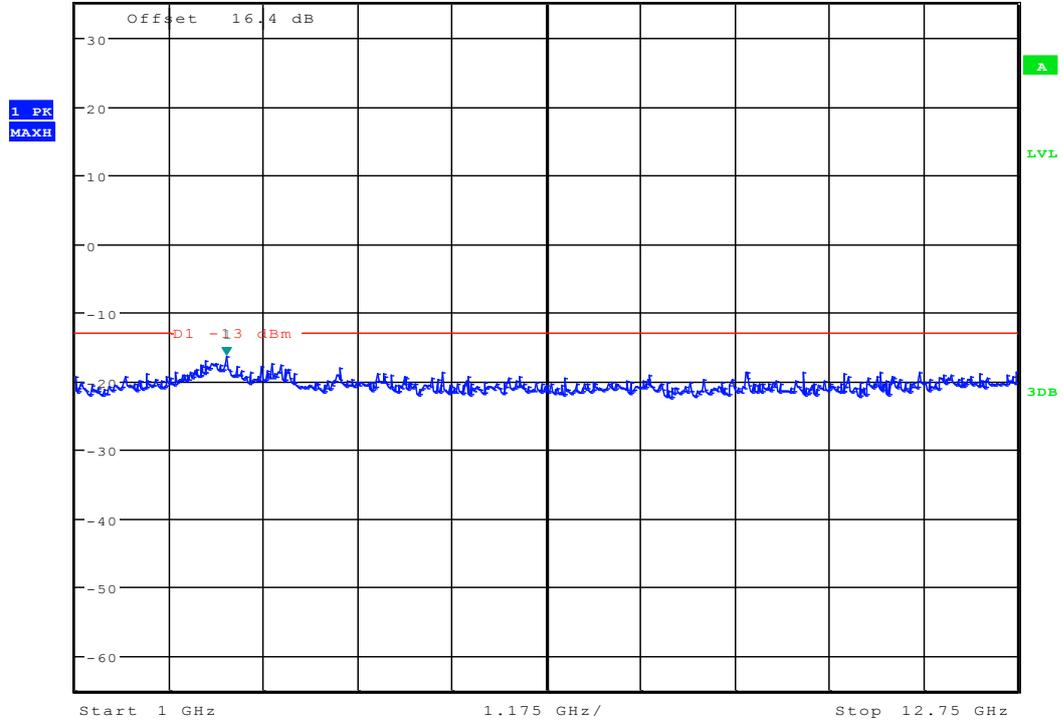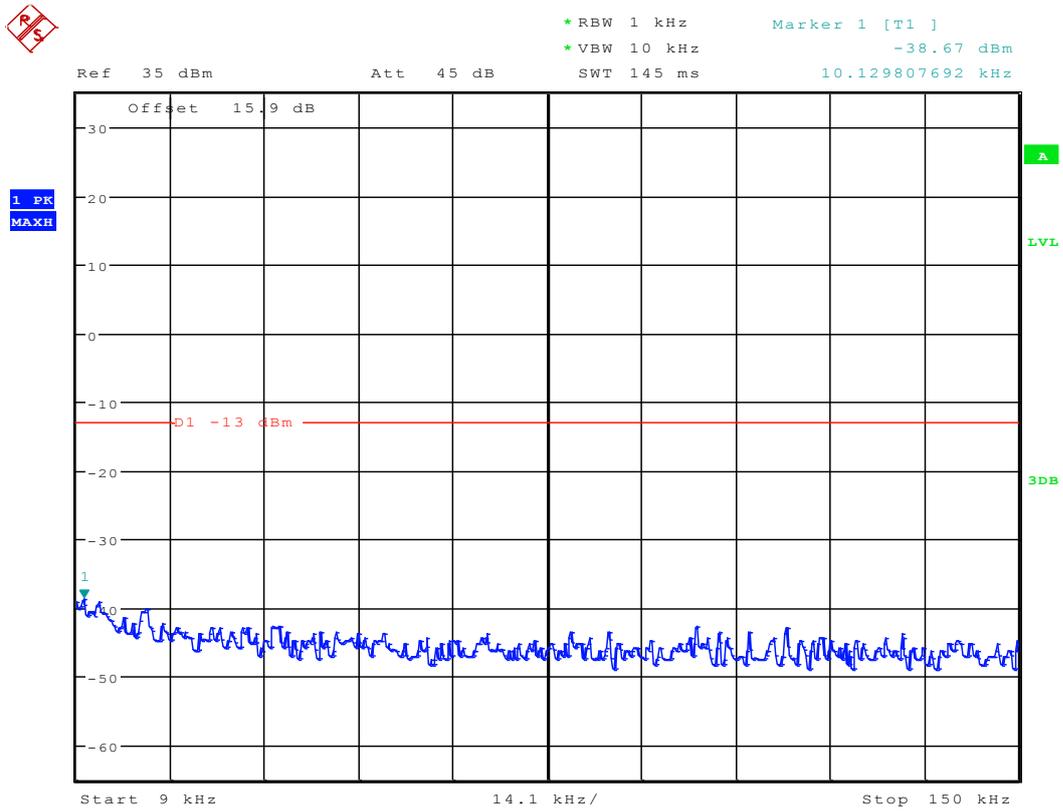
Date: 13.APR.2012 23:09:51

```
                                      * RBW  100 kHz      Marker 1 [T1 ]
                                      * VBW  300 kHz            21.63 dBm
        Ref  35 dBm         Att  45 dB    SWT  100 ms     825.897435897 MHz

        Offset   16.1 dB
```
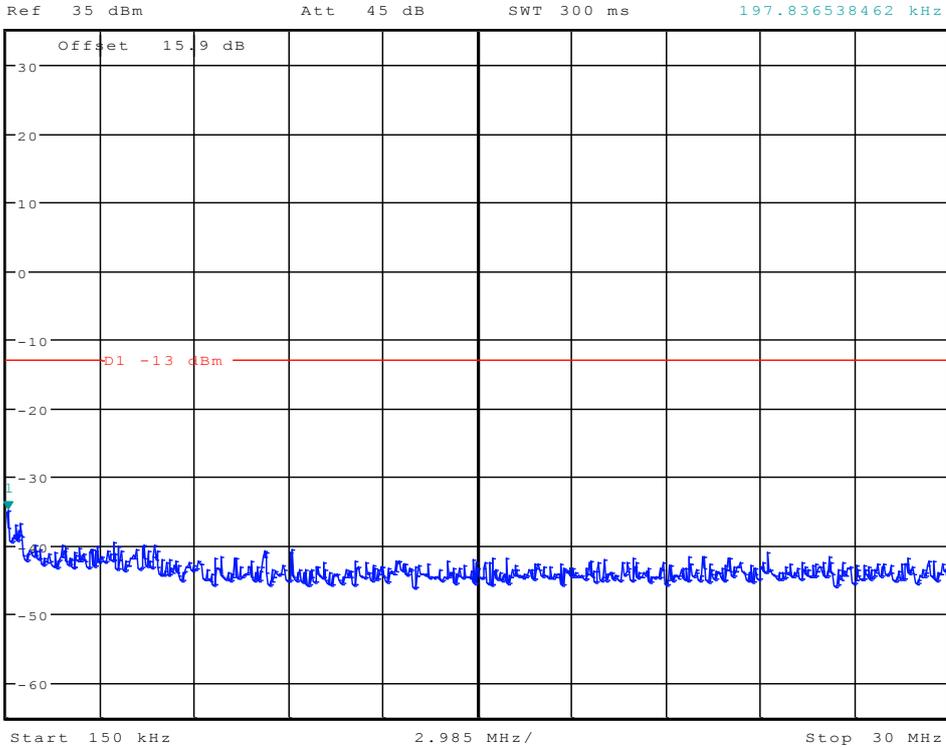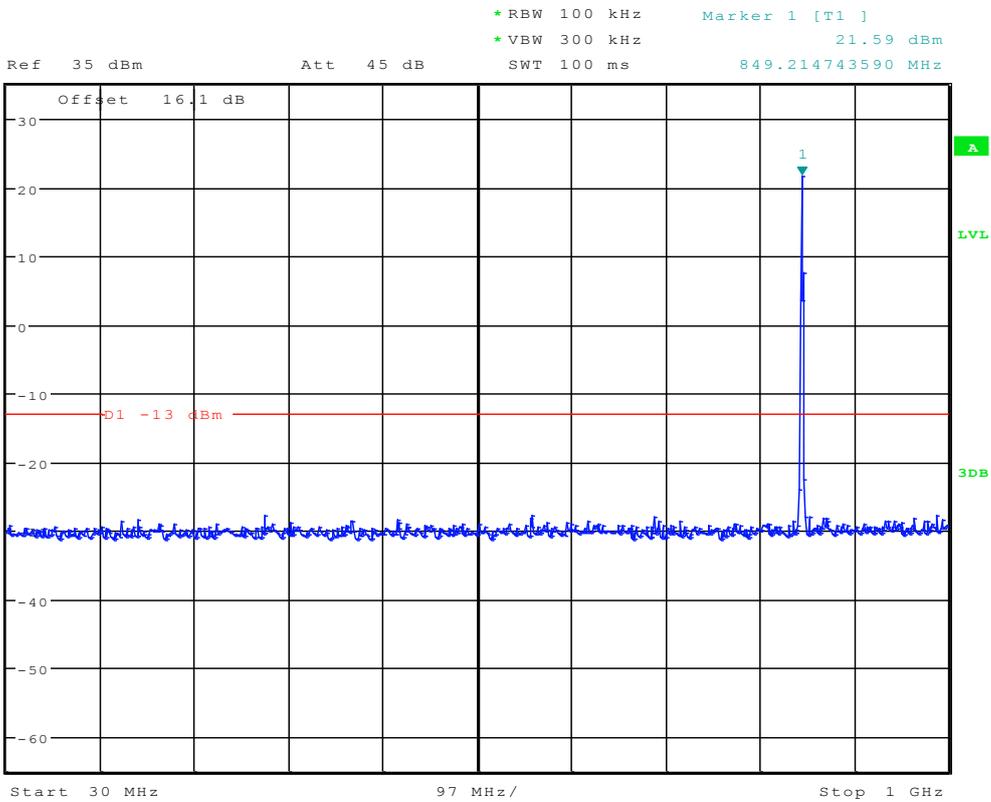
Start 30 MHz   97 MHz/   Stop 1 GHz

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1.2.1.2 Channel = M


```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                -38.67 dBm
        Ref   35 dBm      Att  45 dB    SWT  145 ms      9.000000000 kHz

        Offset  15.9 dB                                              A

  1 PK
  MAXH                                                              LVL

        D1 -13 dBm                                                  3DB

        Start  9 kHz          14.1 kHz/          Stop  150 kHz
```

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Date: 13.APR.2012   23:10:51

1.2.1.3 Channel =T

```
                                      *RBW  1 kHz         Marker 1 [T1 ]
                                      *VBW  10 kHz               -38.19 dBm
        Ref   35 dBm      Att  45 dB   SWT  145 ms         9.000000000 kHz

             Offset   15.9 dB
          -30

 1 PK     -20                                                                   A
 MAXH
          -10                                                                  LVL

           0

          -10
            D1 -13 dBm

          -20                                                                  3DB

          -30

          -40

          -50

          -60

        Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

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```
*RBW  10 kHz        Marker 1 [T1 ]
*VBW  30 kHz                   -32.51 dBm
Ref   35 dBm        Att  45 dB     SWT 300 ms     197.836538462 kHz

Offset   15.9 dB
```

Start 150 kHz   2.985 MHz/   Stop 30 MHz

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```
* RBW  1 MHz          Marker 1 [T1 ]
* VBW  3 MHz                -16.62 dBm
Ref   35 dBm        Att   45 dB        SWT  70 ms        2.525240385 GHz
```



```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 13.APR.2012 23:10:59

2 For EVDO 800

2.1 Test Mode = Subtype 0

2.1.1.1 Channel = B


```
                                    * RBW  1 kHz         Marker 1 [T1 ]
                                    * VBW  10 kHz                  -37.92 dBm
        Ref   35 dBm      Att  45 dB    SWT 145 ms        9.451923077 kHz

        Offset   15.9 dB
        30

1 PK    20
MAXH
        10

        0

        -10
        D1 -13 dBm

        -20

        -30

        -50

        -60

        Start  9 kHz           14.1 kHz/          Stop  150 kHz
```
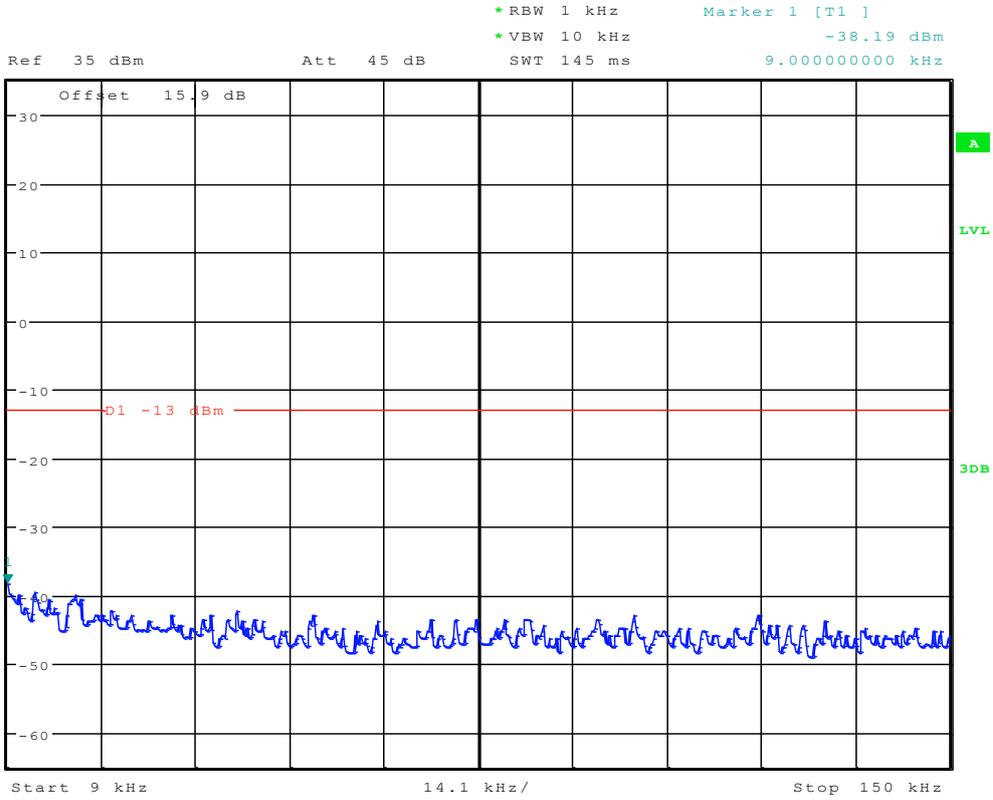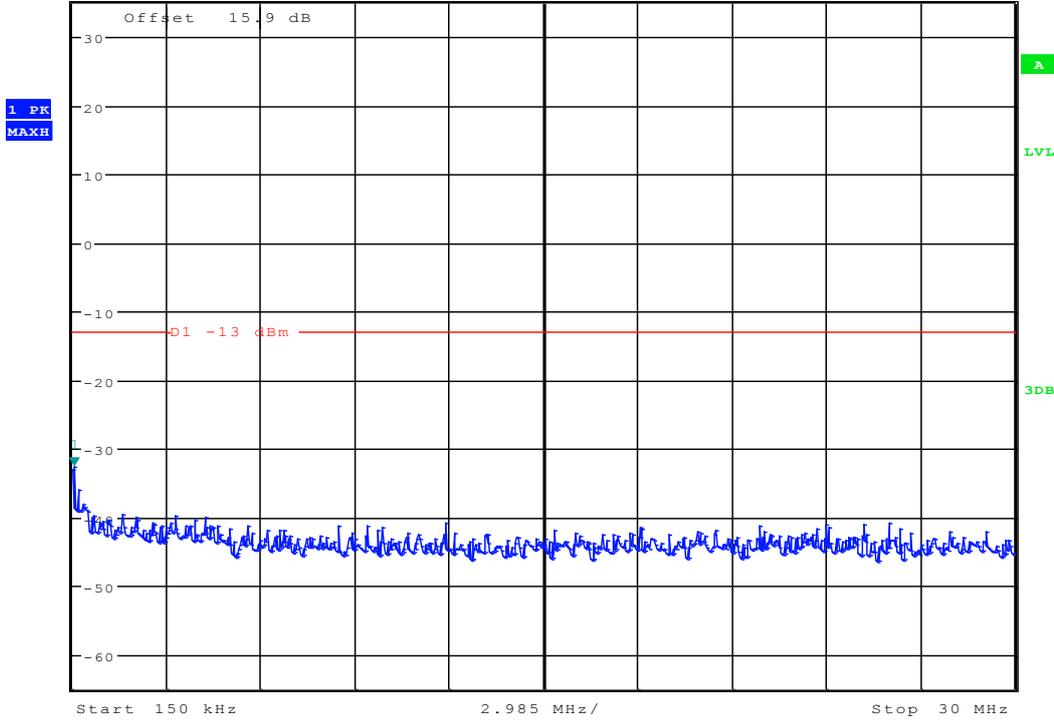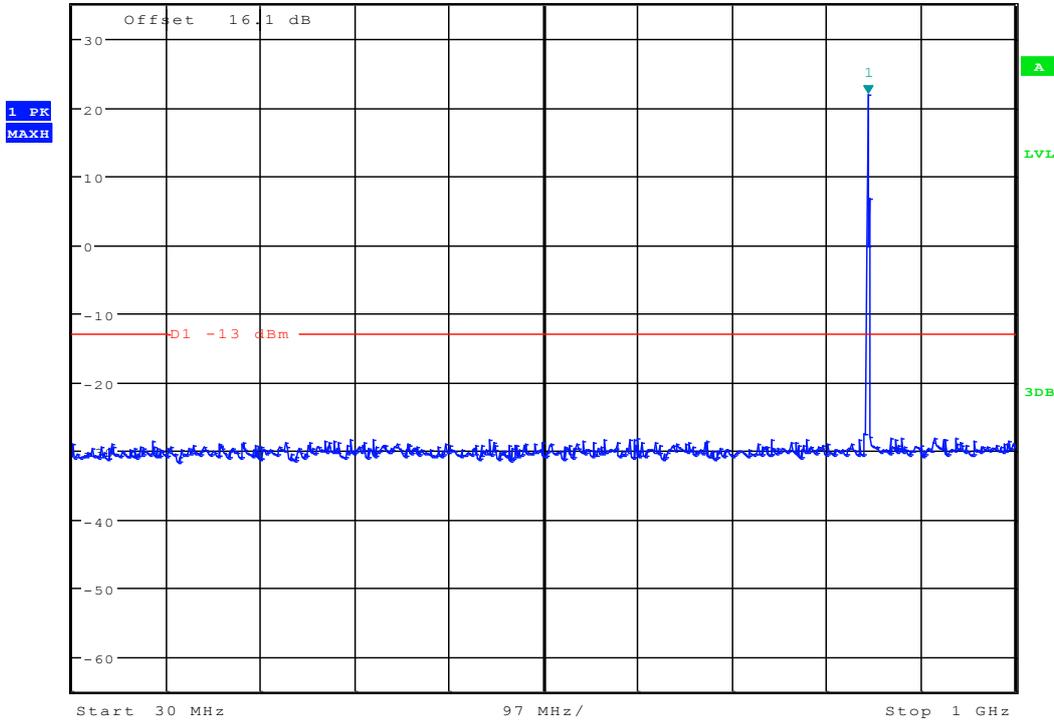
Date: 13.APR.2012 23:42:50

```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                -33.06 dBm
    Ref   35 dBm        Att  45 dB    SWT 300 ms        150.000000000 kHz
```
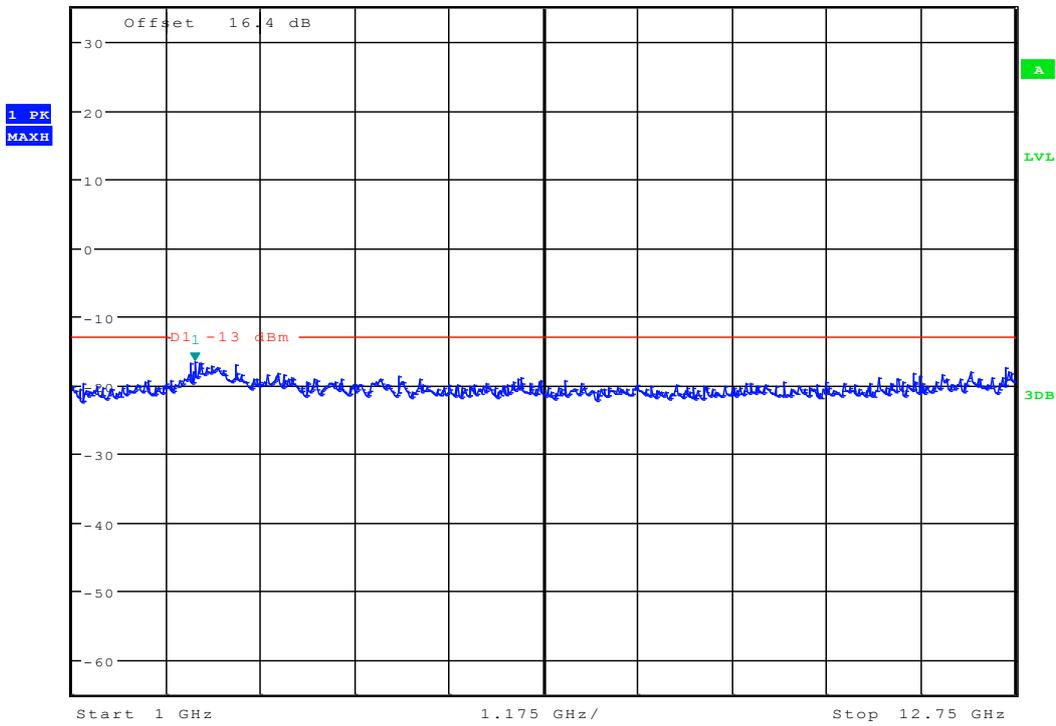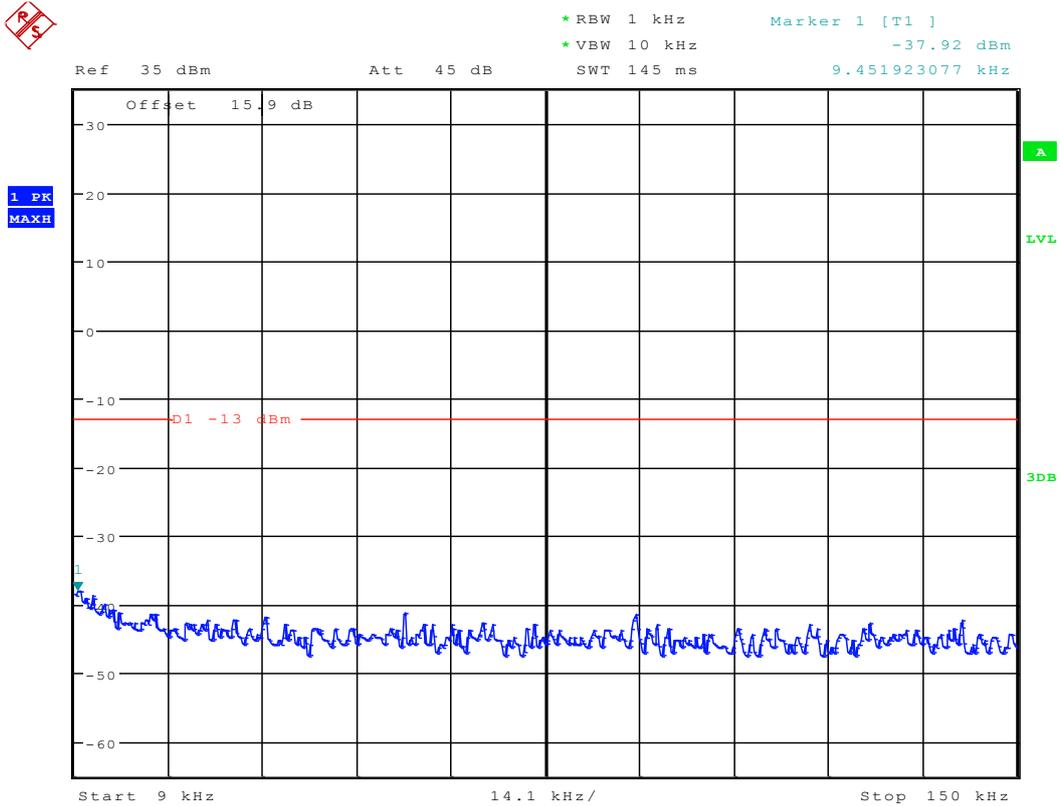


```
Start  150 kHz              2.985 MHz/              Stop  30 MHz
```

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*RBW 100 kHz
*VBW 300 kHz
SWT 100 ms

Marker 1 [T1]
22.14 dBm
825.897435897 MHz

Ref 35 dBm   Att 45 dB

Offset 16.1 dB

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* RBW 1 MHz
* VBW 3 MHz
SWT 70 ms

Marker 1 [T1]
-17.01 dBm
2.657051282 GHz

Ref 35 dBm   Att 45 dB

Offset 16.4 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

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2.1.1.2 Channel = M

```
                                        * RBW  1 kHz           Marker 1 [T1 ]
                                        * VBW  10 kHz                    -38.19 dBm
    Ref   35 dBm              Att   45 dB    SWT  145 ms        9.677884615 kHz

        Offset   15.9 dB
    30

1 PK
MAXH    20

    10

     0

   -10
        D1  -13 dBm

   -20

   -30

   -40

   -50

   -60

    Start  9 kHz             14.1 kHz/                    Stop  150 kHz
```
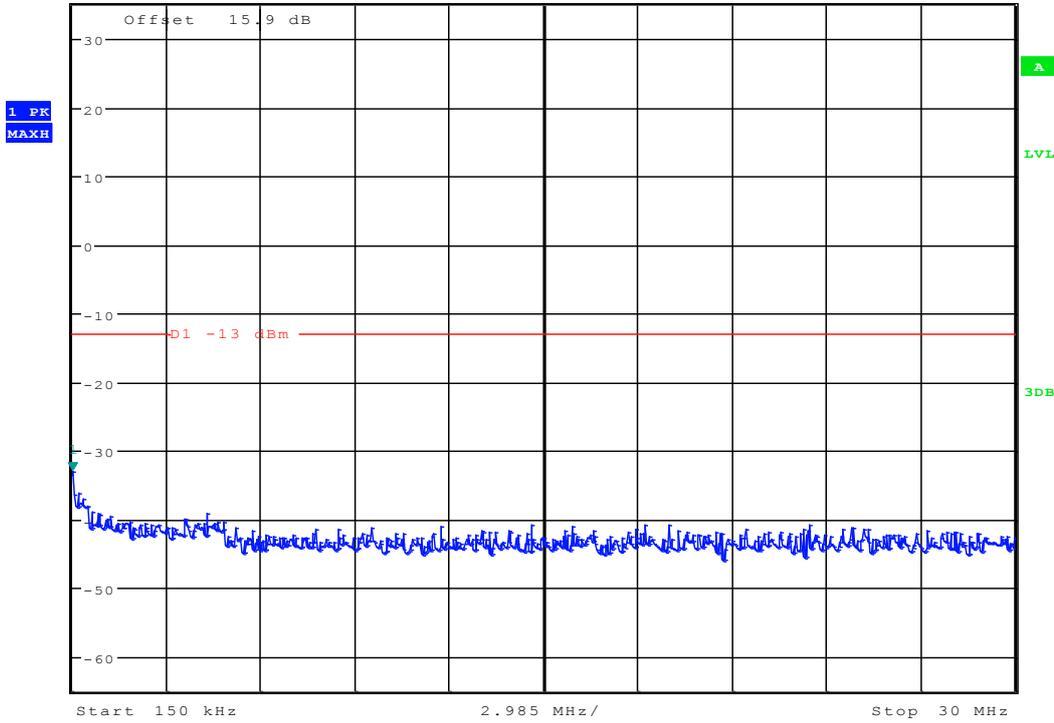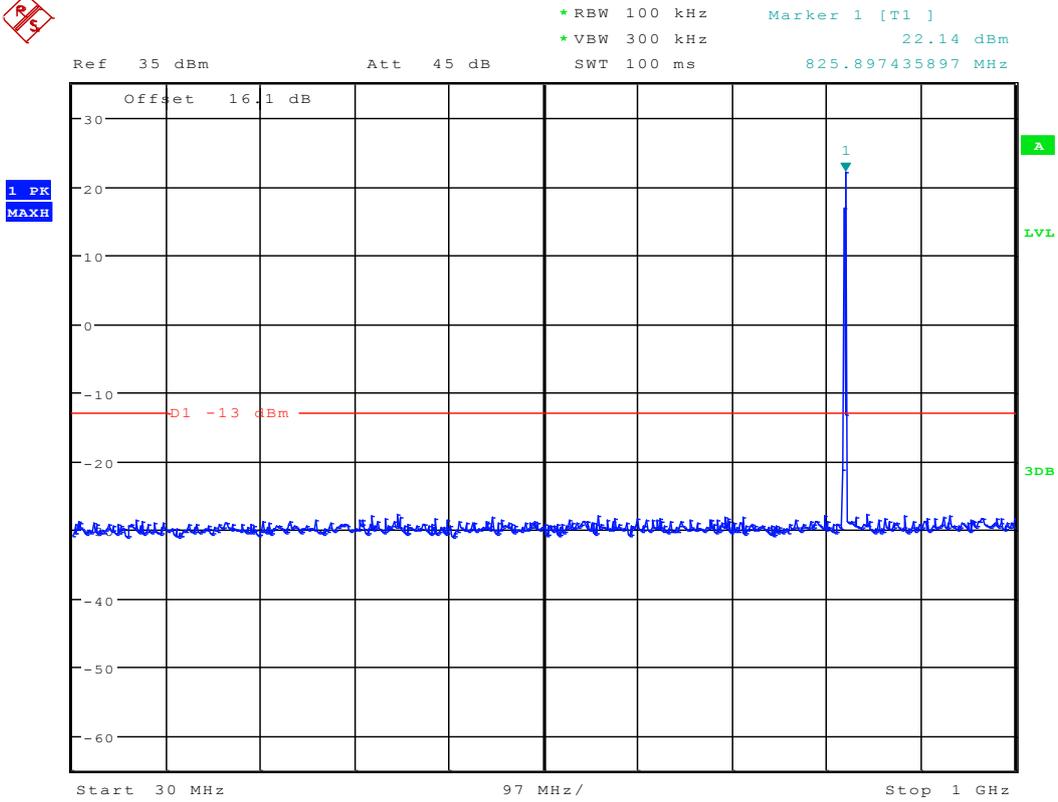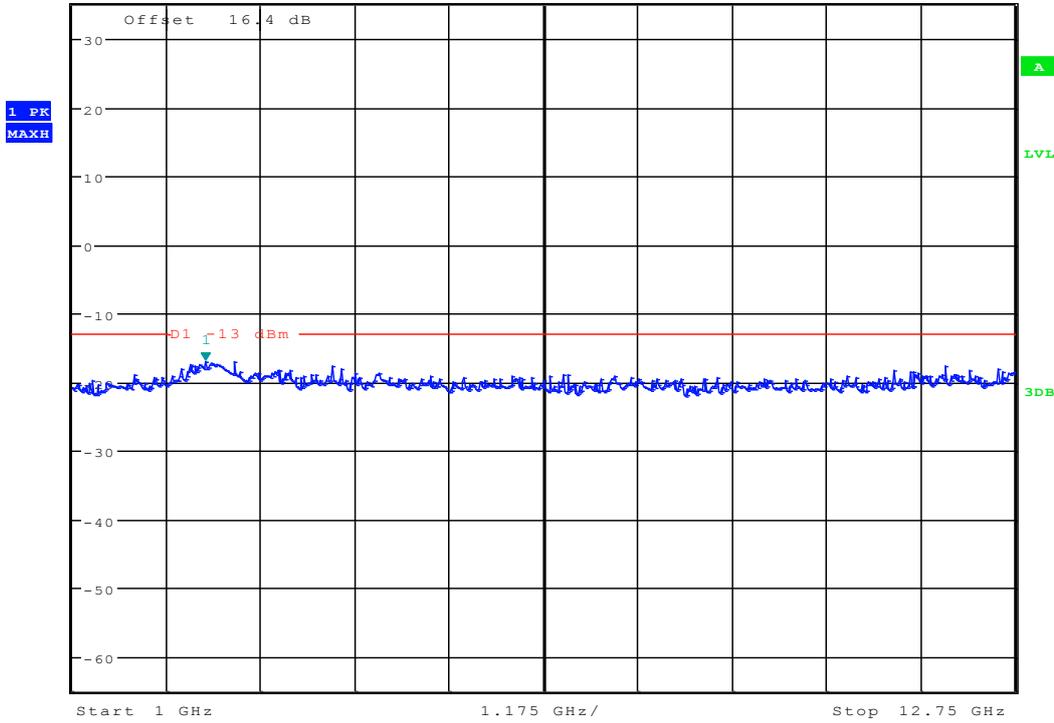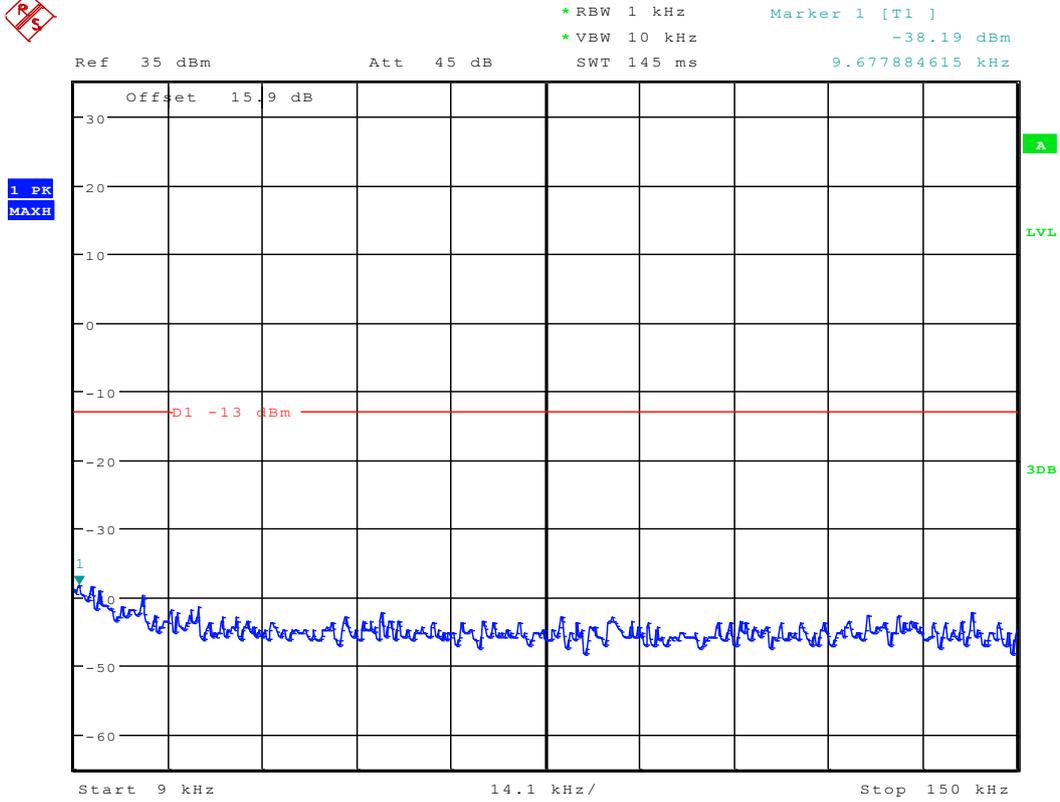
Date: 13.APR.2012 23:43:04

Ref 35 dBm   Att 45 dB   SWT 300 ms

* RBW 10 kHz   Marker 1 [T1]
* VBW 30 kHz   -33.48 dBm
                      197.836538462 kHz
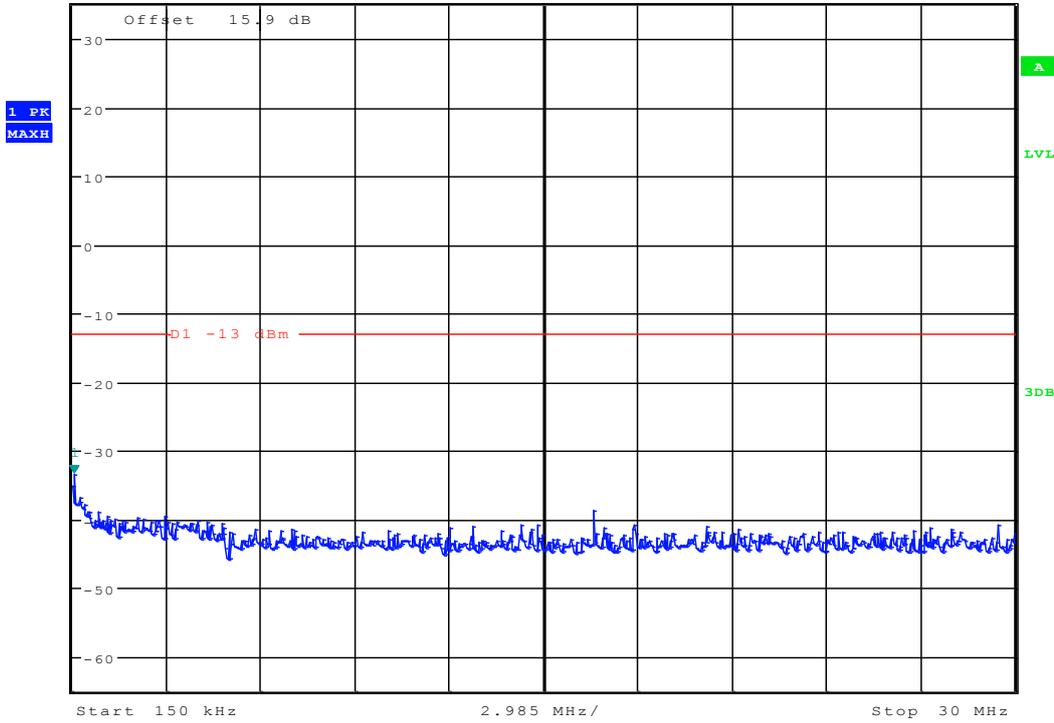
Date: 13.APR.2012 23:43:48

```
* RBW  100 kHz          Marker 1 [T1 ]
* VBW  300 kHz                 21.73 dBm
Ref  35 dBm          Att  45 dB     SWT  100 ms      836.778846154 MHz

Offset   16.1 dB
  30
                                                            1        A
  20                                                        ▽

                                                                     LVL
  10

   0

 -10
      D1 -13 dBm                                                      3DB
 -20

 -40

 -50

 -60

Start 30 MHz              97 MHz/              Stop  1 GHz
```

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2.1.1.3 Channel = T


```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW  10 kHz              -38.87 dBm
   Ref   35 dBm              Att  45 dB   SWT  145 ms        9.451923077 kHz
```
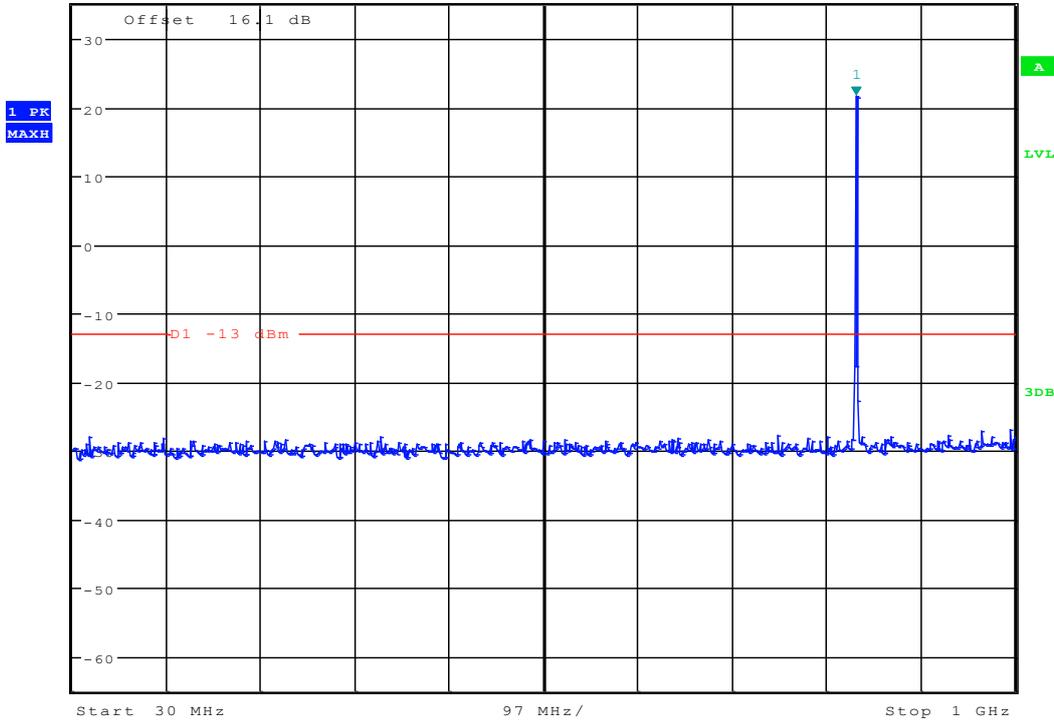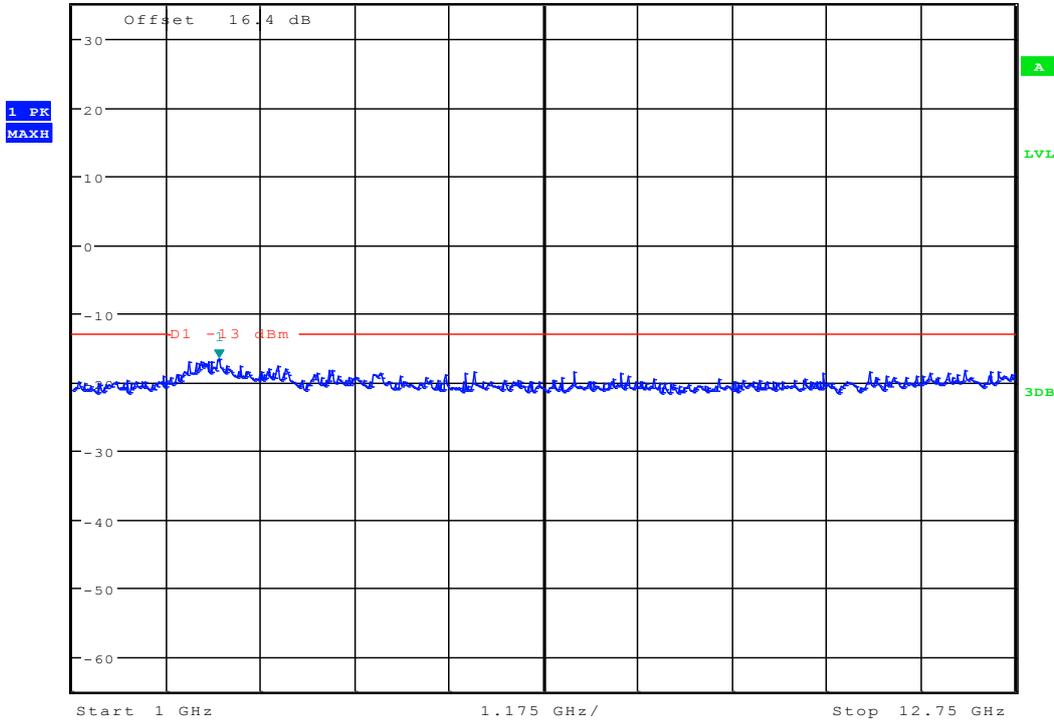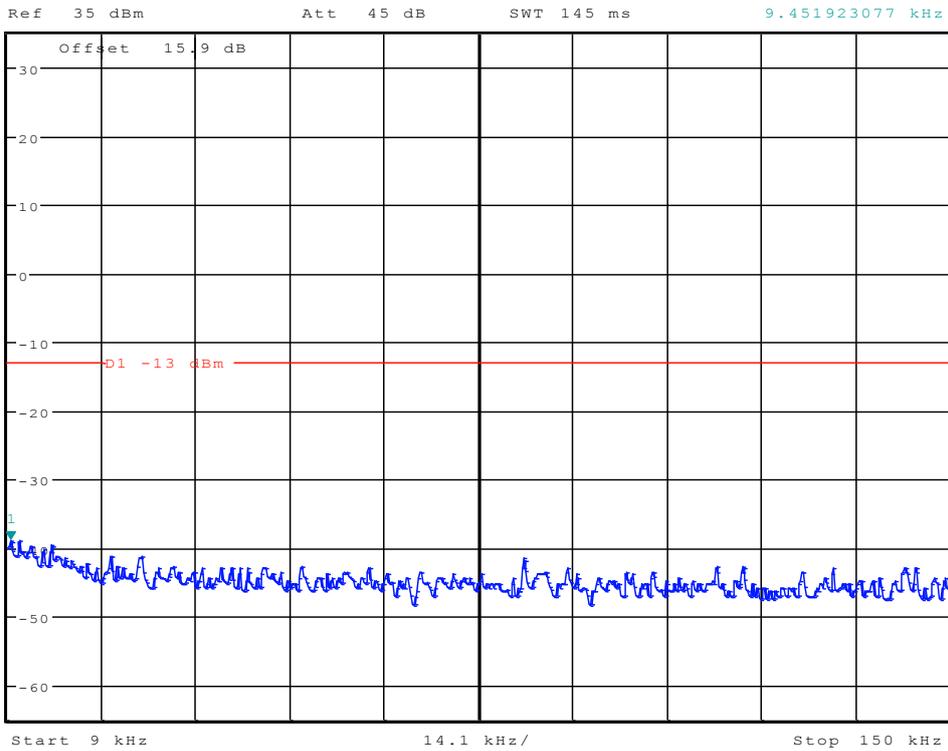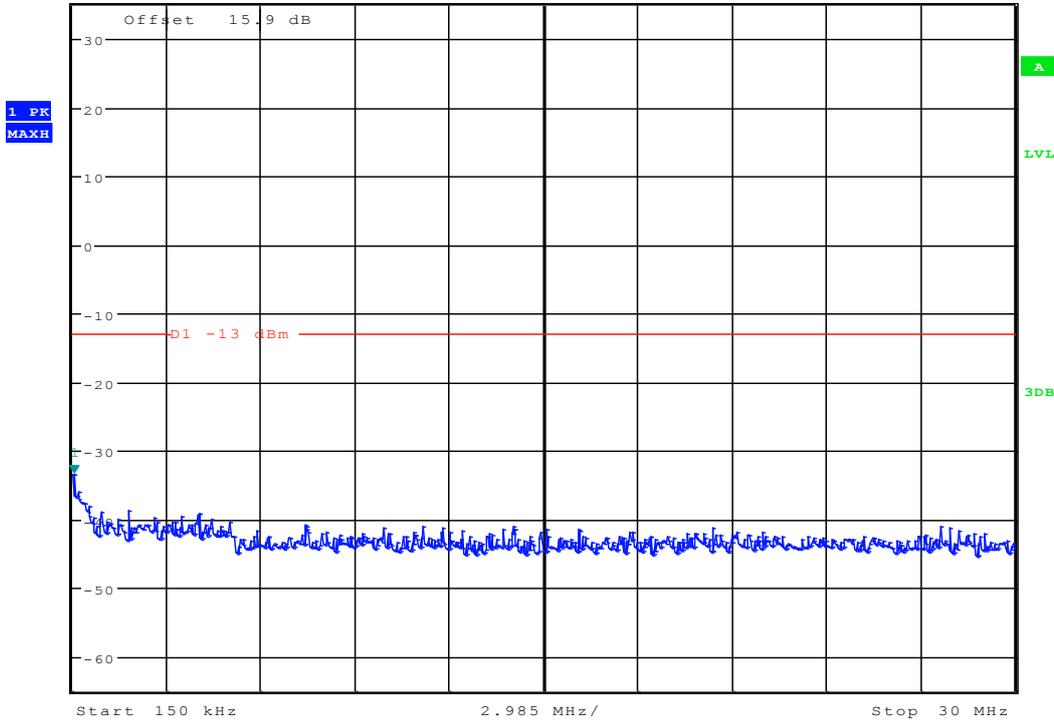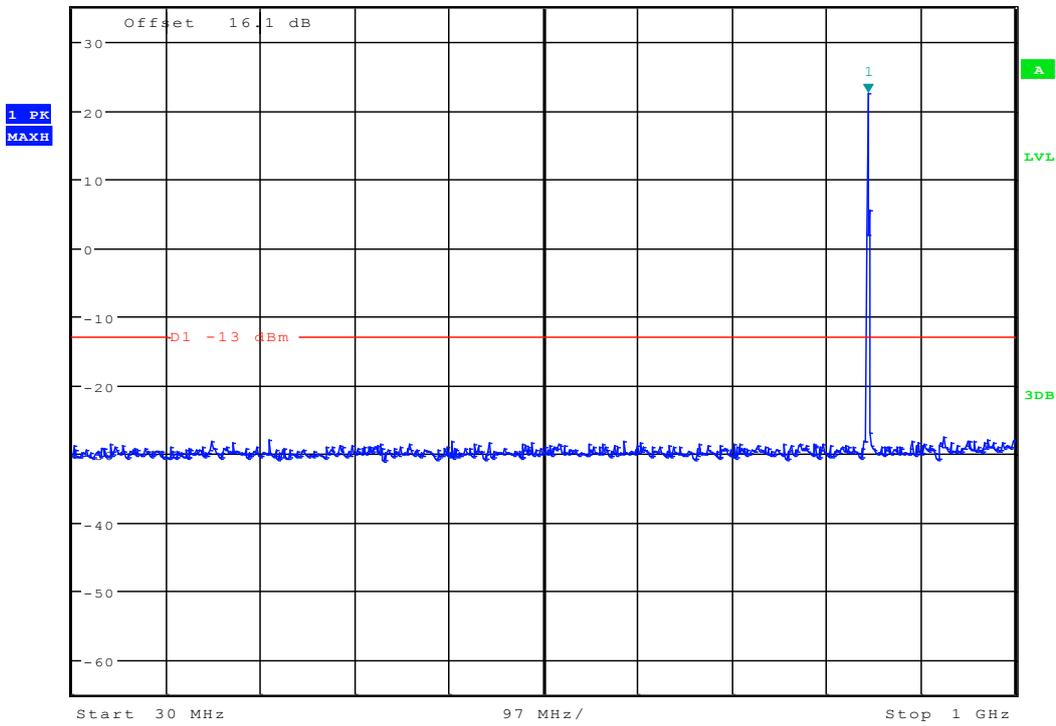
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```
                                        * RBW  100 kHz      Marker 1 [T1 ]
                                        * VBW  300 kHz                22.50 dBm
           Ref   35 dBm        Att  45 dB   SWT  100 ms      849.214743590 MHz

           Offset   16.1 dB
        -30                                                    1               A

1 PK    -20
MAXH                                                                          LVL

        -10

          0

         -10
              D1 -13 dBm
         -20                                                                   3DB

         -30

         -40

         -50

         -60

        Start 30 MHz                    97 MHz/                  Stop  1 GHz
```
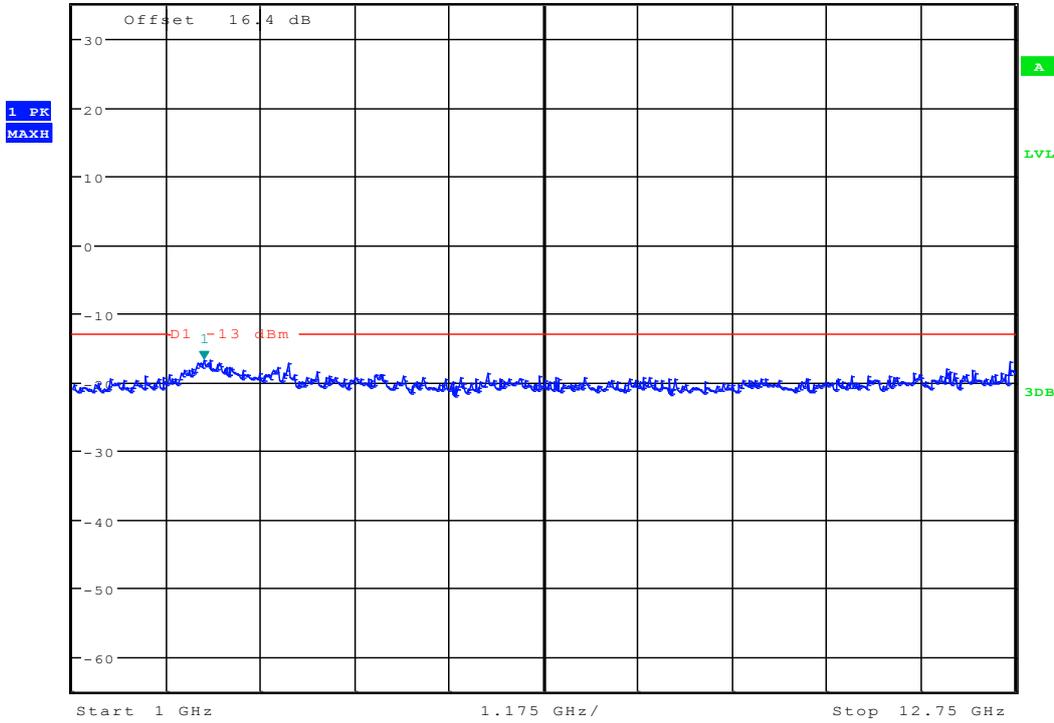
Date: 13.APR.2012   23:44:46

Date: 13.APR.2012 23:45:30

2.2   Test Mode = Subtype 2

2.2.1.1 Channel = B

Modulation：BPSK


```
                                        * RBW  1 kHz         Marker 1 [T1 ]
                                        * VBW  10 kHz                  -39.08 dBm
          Ref   35 dBm      Att  45 dB   SWT 145 ms          12.615384615 kHz

            Offset   15.9 dB                                                    A
        30
                                                                              LVL
        20

        10

         0

       -10   D1 -13 dBm                                                       3DB

       -20

       -30

              1
       -50

       -60

          Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 13.APR.2012 23:50:27
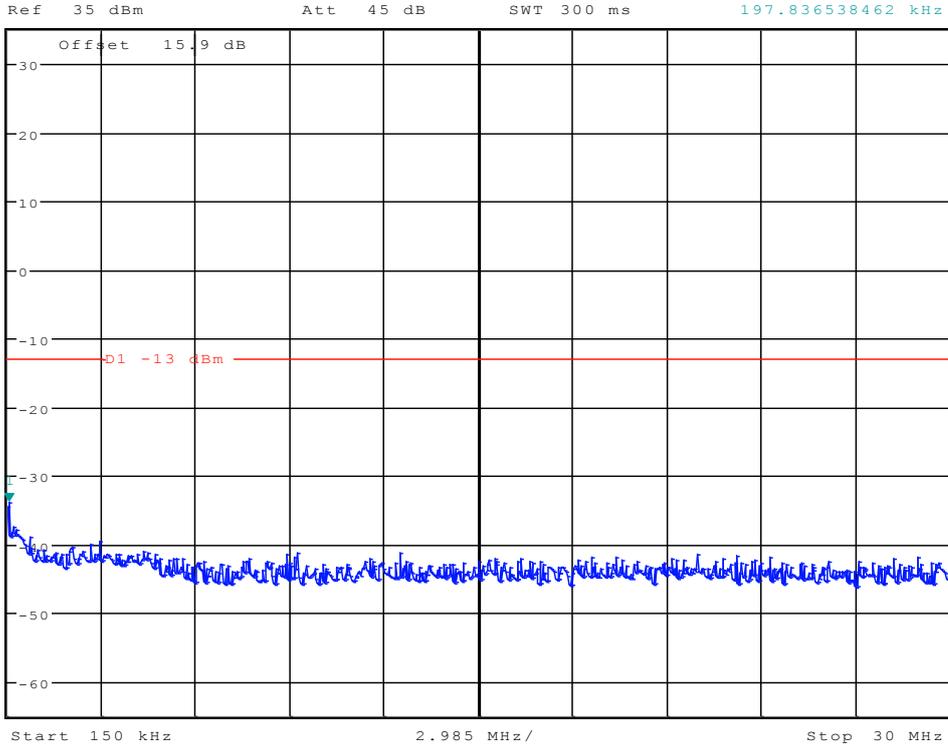
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Date: 13.APR.2012 23:51:18

```
                                      * RBW  1 MHz          Marker 1 [T1 ]
                                      * VBW  3 MHz                 -16.57 dBm
        Ref   35 dBm        Att  45 dB    SWT  70 ms         2.770032051 GHz

        Offset   16.4 dB                                               A
  -30
1 PK                                                                  LVL
MAXH -20

  -10

   0

  -10
        D1  -13 dBm                                                   3DB
  -20

  -30

  -40

  -50

  -60

Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```
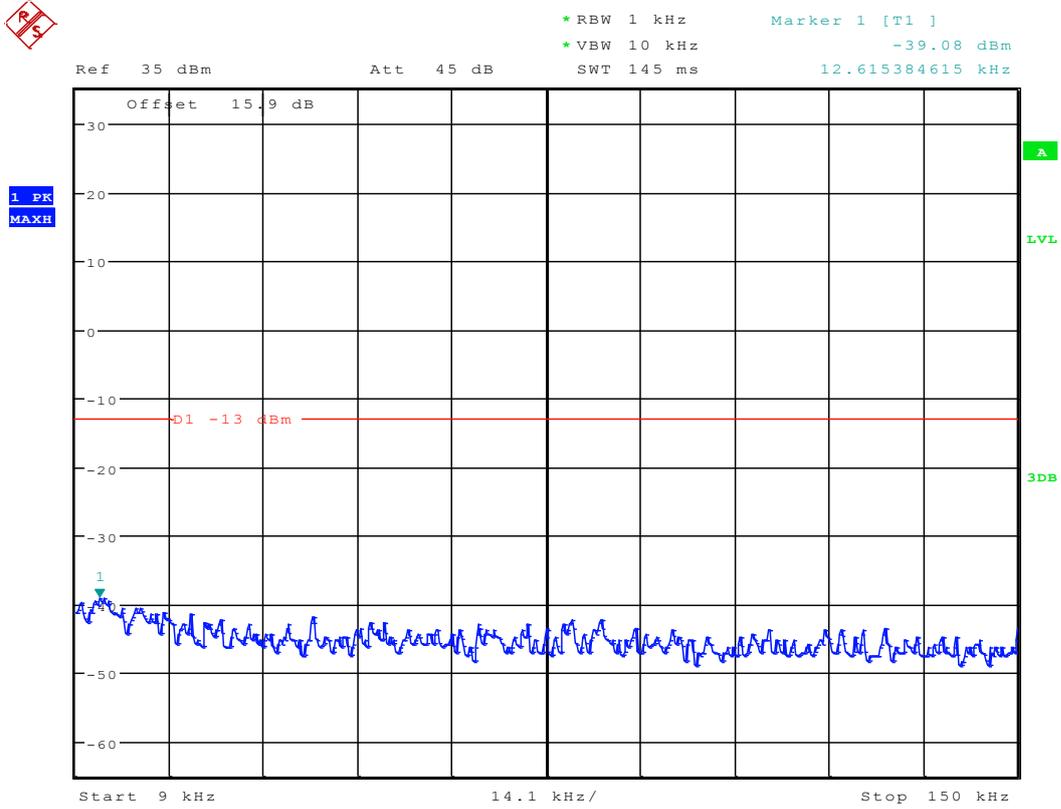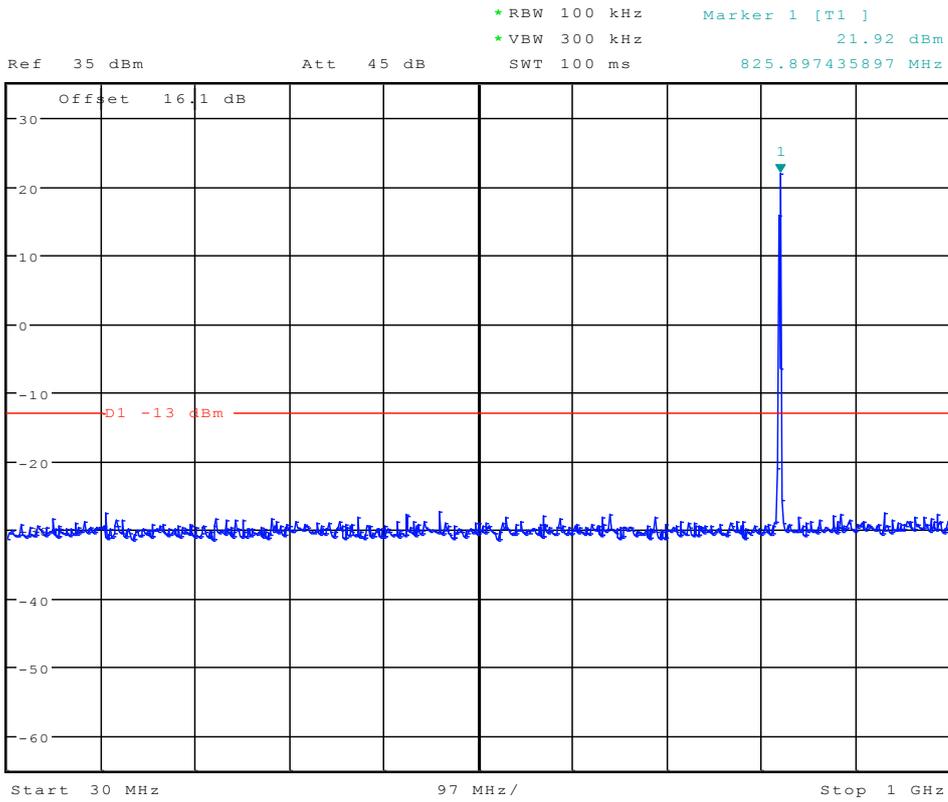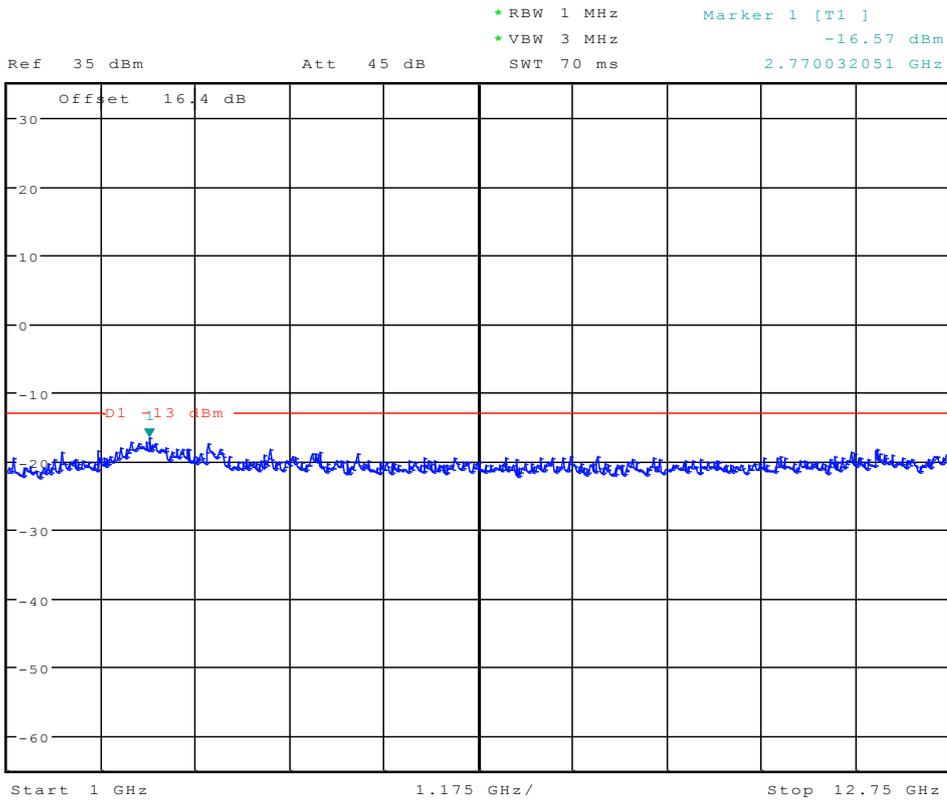
Date: 13.APR.2012 23:51:44

Modulation：QPSK


```
                                    * RBW 1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz                    -37.74 dBm
    Ref   35 dBm          Att  45 dB   SWT 145 ms       9.225961538 kHz
        Offset   15.9 dB
      -30                                                                    A
      -20
1 PK
MAXH  -10                                                                   LVL
       0
      -10
         D1 -13 dBm
      -20                                                                   3DB
      -30
      -40
      -50
      -60
    Start  9 kHz              14.1 kHz/                Stop  150 kHz
```
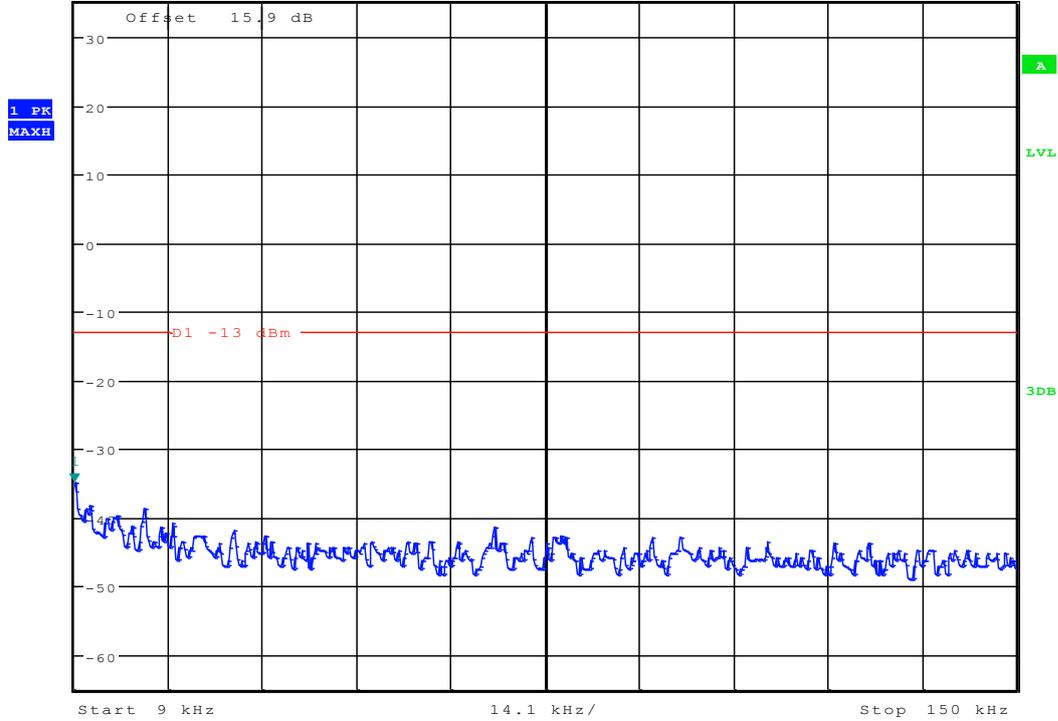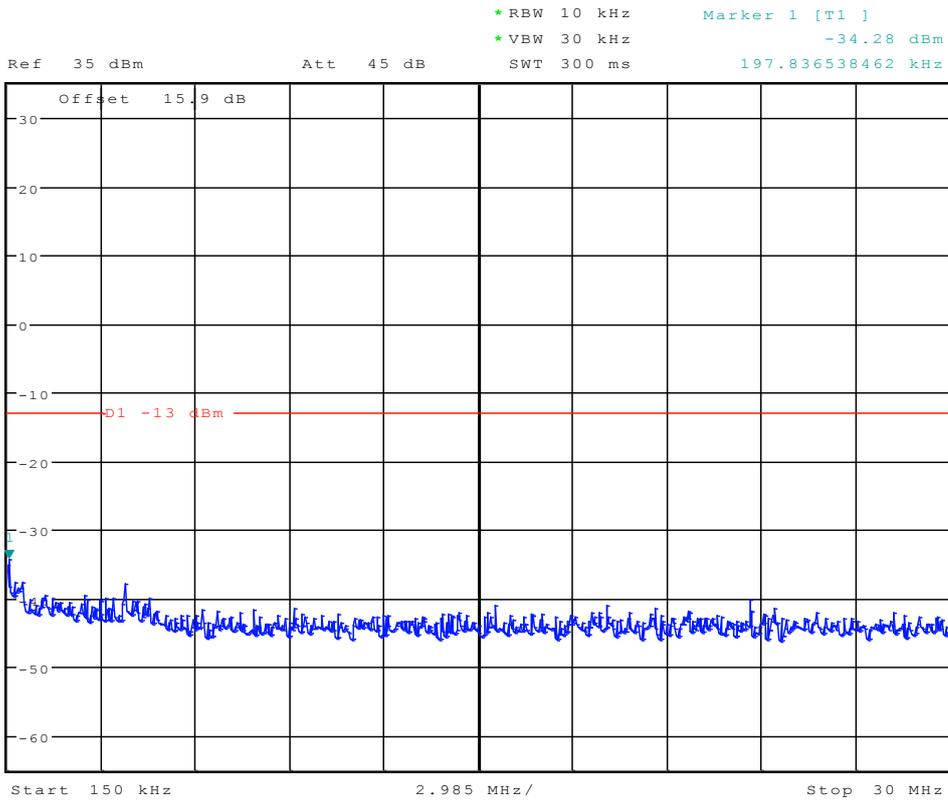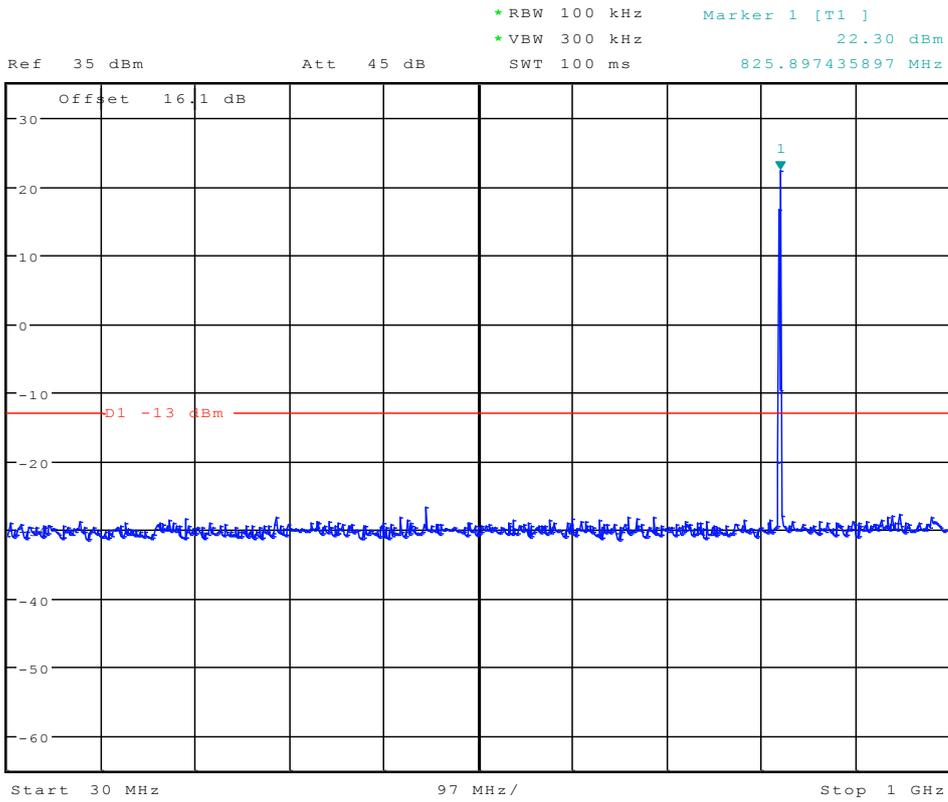
Date: 13.APR.2012 23:52:10

```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz              -33.93 dBm
        Ref   35 dBm      Att  45 dB   SWT 300 ms      197.836538462 kHz
```



```
        Offset   15.9 dB
     -30
                                                                      A
     -20
1 PK
MAXH
     -10                                                             LVL

      0

    -10
       D1 -13 dBm
    -20                                                             3DB

    -30

    -50

    -60

    Start  150 kHz          2.985 MHz/            Stop  30 MHz
```
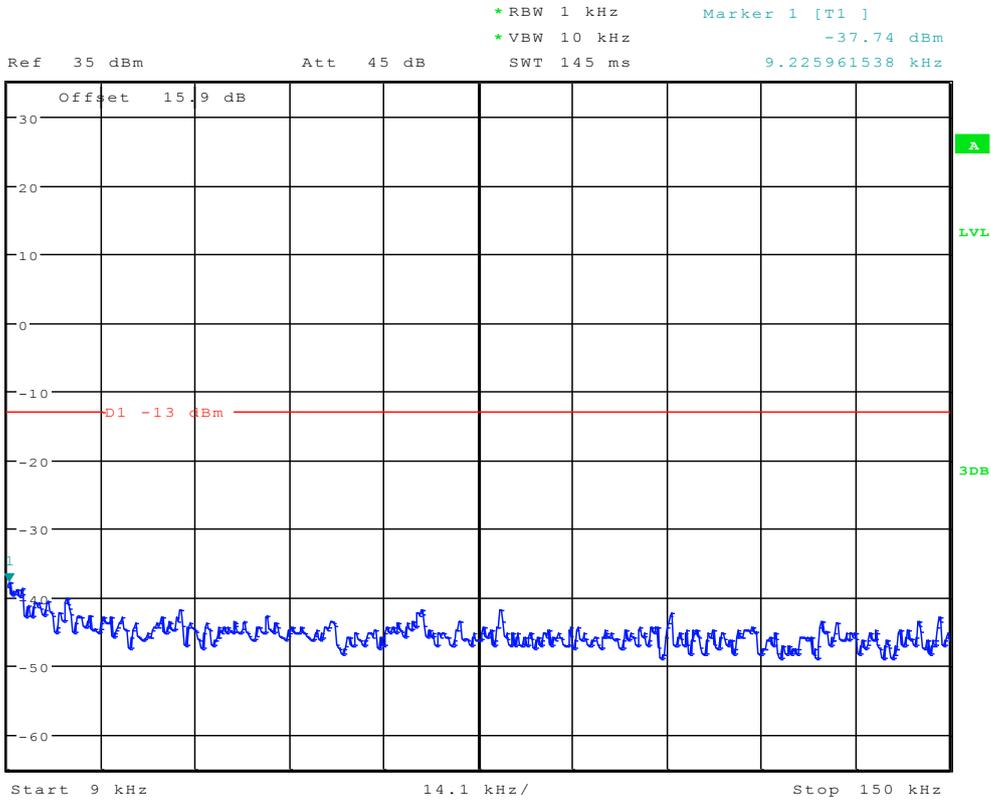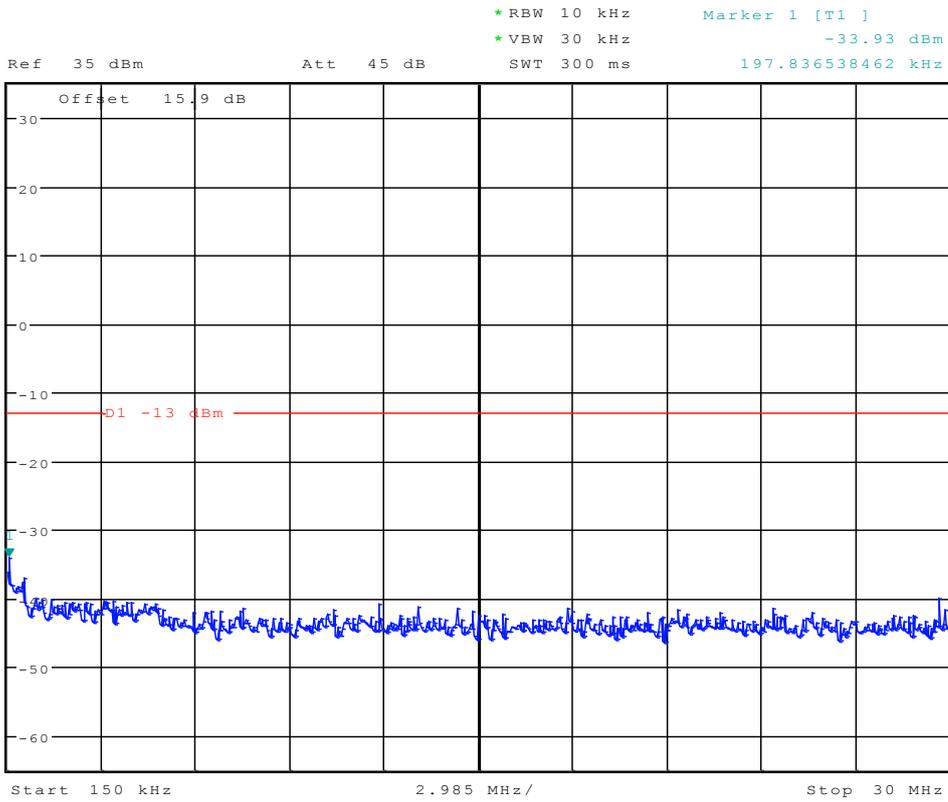
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* RBW 1 MHz
* VBW 3 MHz
Ref 35 dBm   Att 45 dB   SWT 70 ms

Marker 1 [T1]
        -16.76 dBm
2.732371795 GHz

Offset 16.4 dB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

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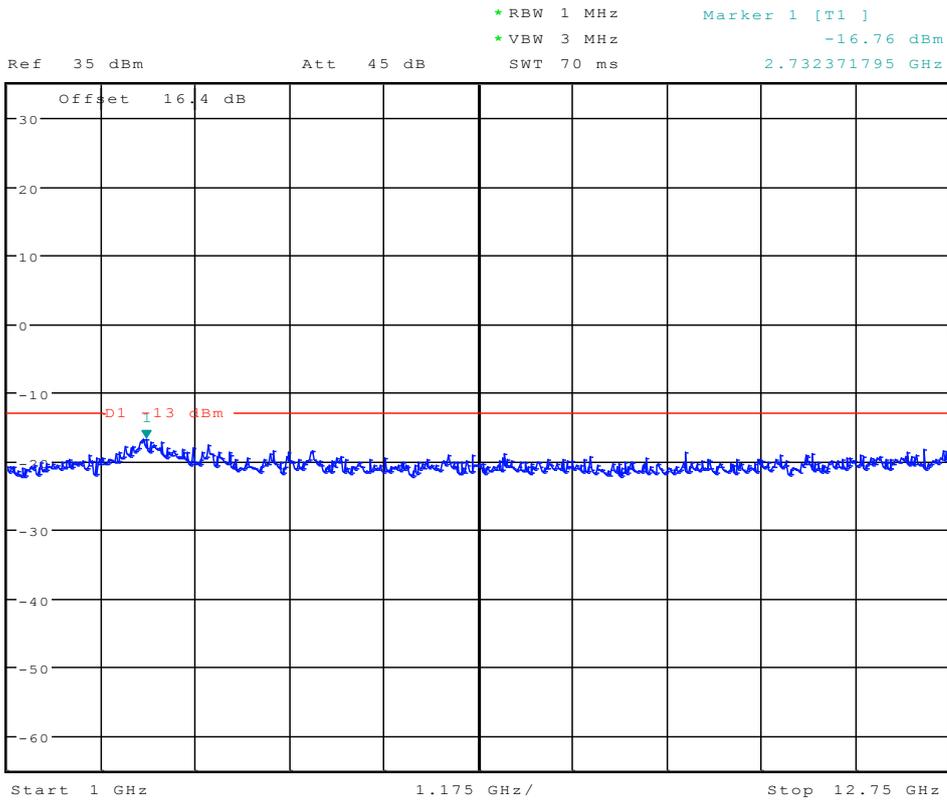
Modulation：8PSK


```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                -34.76 dBm
  Ref   35 dBm          Att  45 dB  SWT  145 ms         9.000000000 kHz
```

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```
                                        * RBW  100 kHz      Marker 1 [T1 ]
                                        * VBW  300 kHz                22.30 dBm
        Ref  35 dBm            Att  45 dB    SWT  100 ms      825.897435897 MHz
```

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*RBW 1 MHz
*VBW 3 MHz
Marker 1 [T1]
-16.55 dBm
Ref 35 dBm   Att 45 dB   SWT 70 ms   2.675881410 GHz

Offset 16.4 dB

1 PK
MAXH

D1 -13 dBm

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz
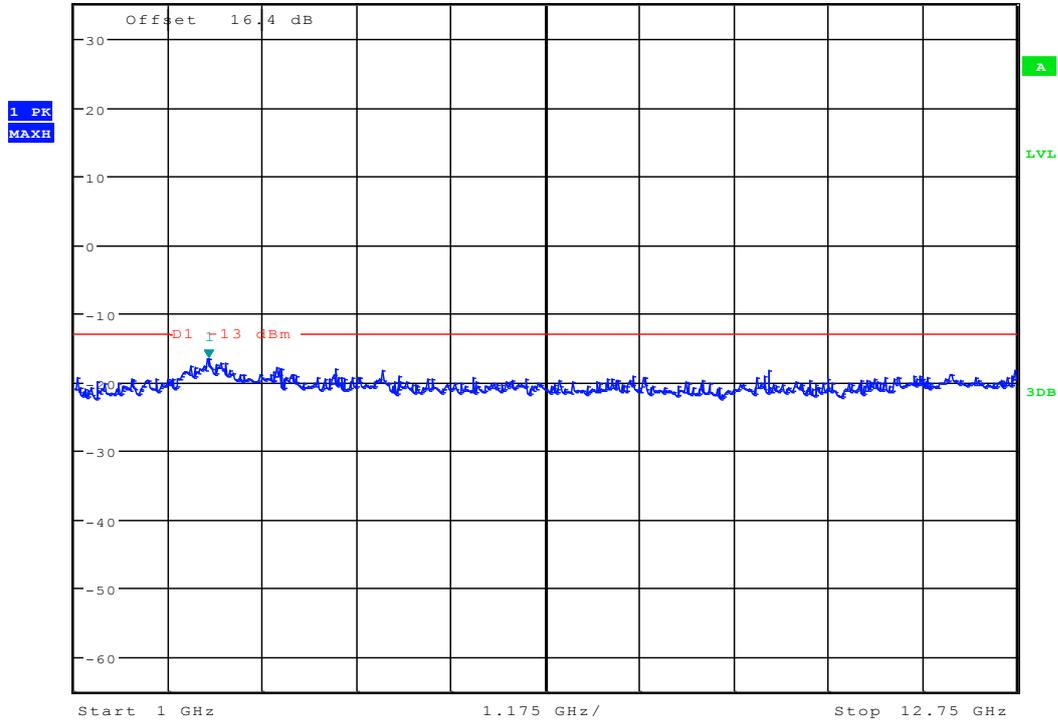
Date: 13.APR.2012 23:55:09

2.2.1.2 Channel = M

Modulation：BPSK

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                 -35.91 dBm
   Ref   35 dBm        Att  45 dB    SWT  145 ms        14.875000000 kHz
```



```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
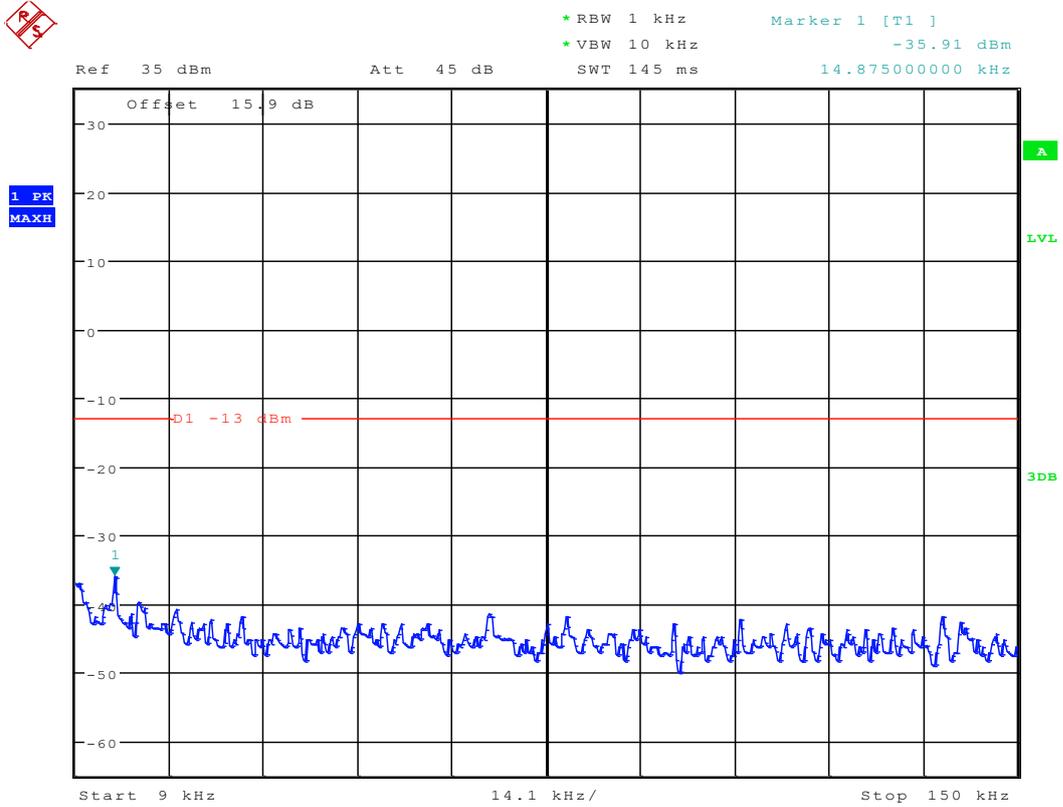
Date: 13.APR.2012 23:50:35
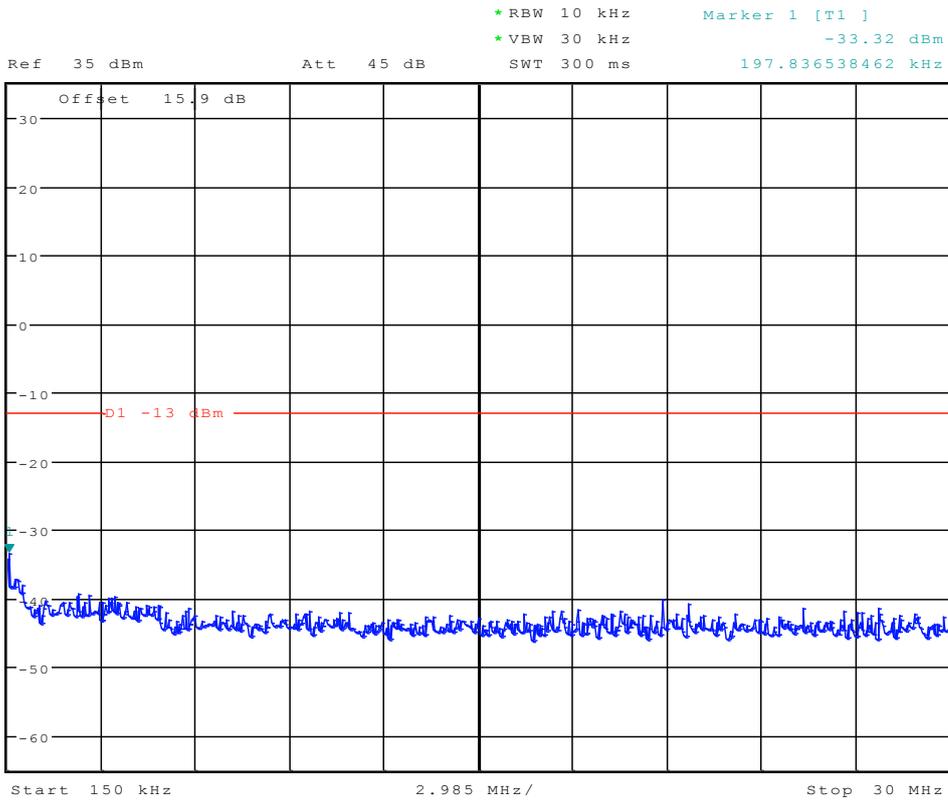
Date: 13.APR.2012 23:51:01
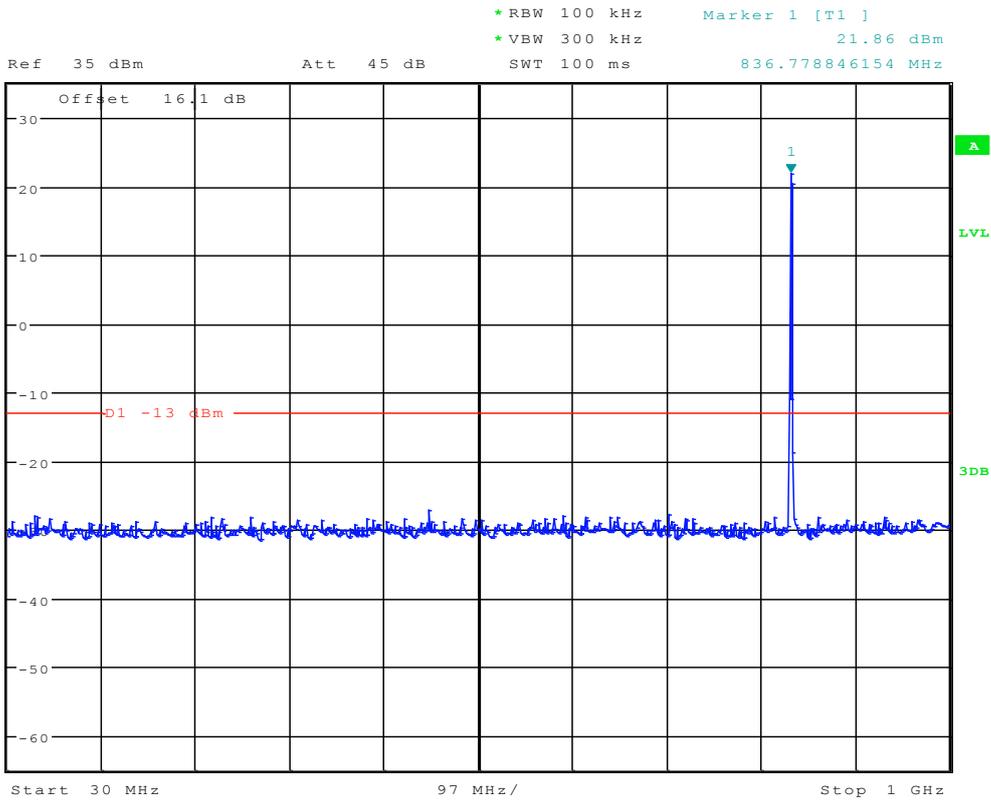
Date: 13.APR.2012 23:51:26

```
                                        * RBW  1 MHz          Marker 1 [T1 ]
                                        * VBW  3 MHz                 -16.19 dBm
           Ref  35 dBm        Att  45 dB    SWT 70 ms        2.638221154 GHz
```
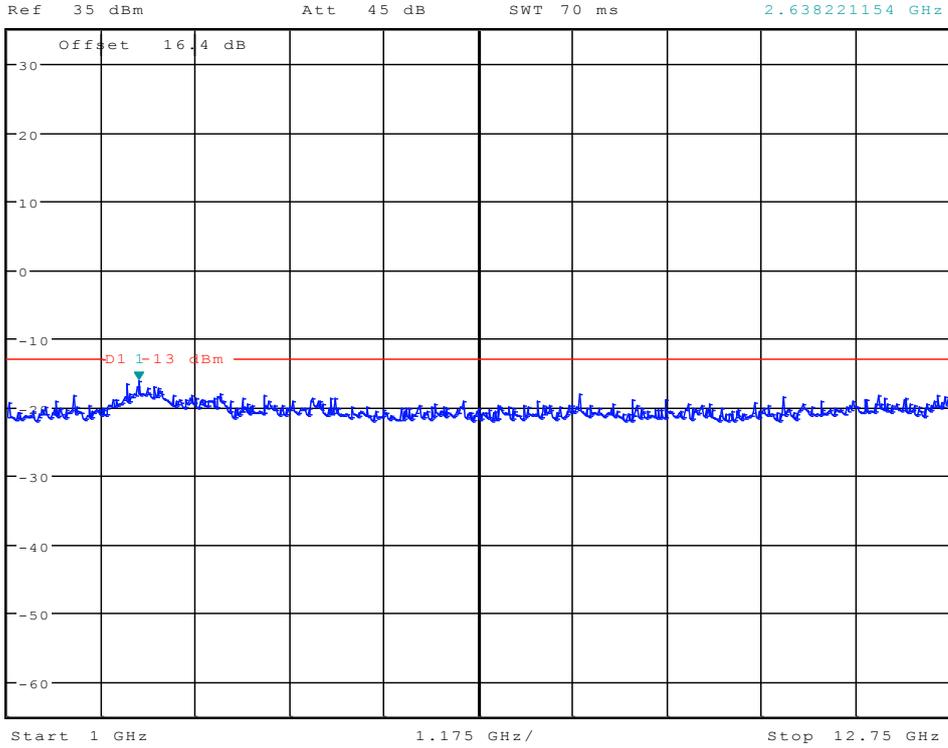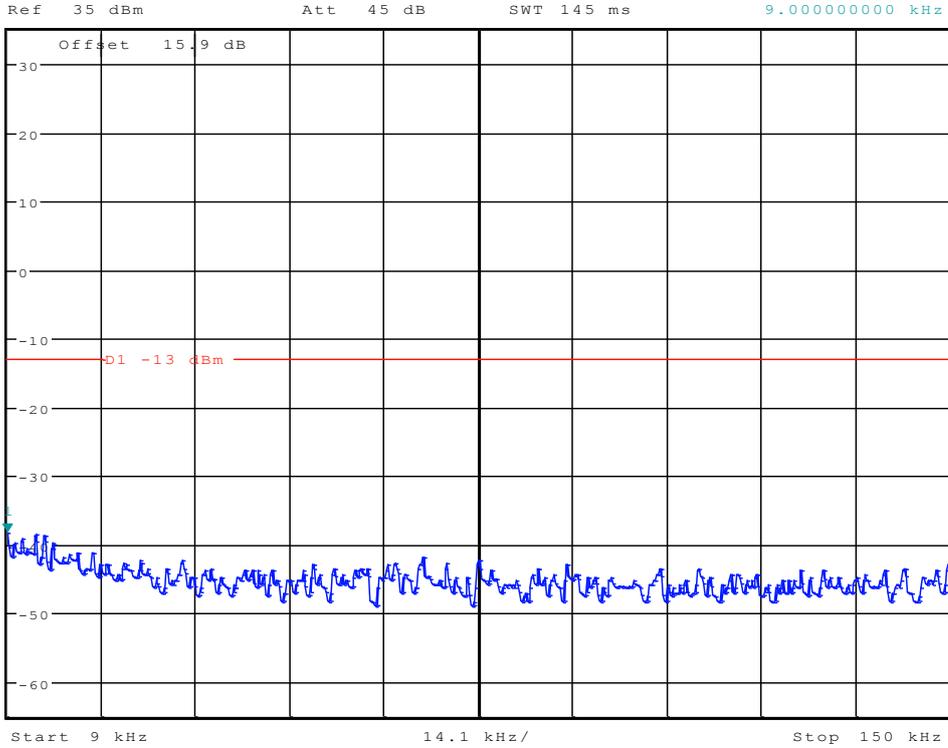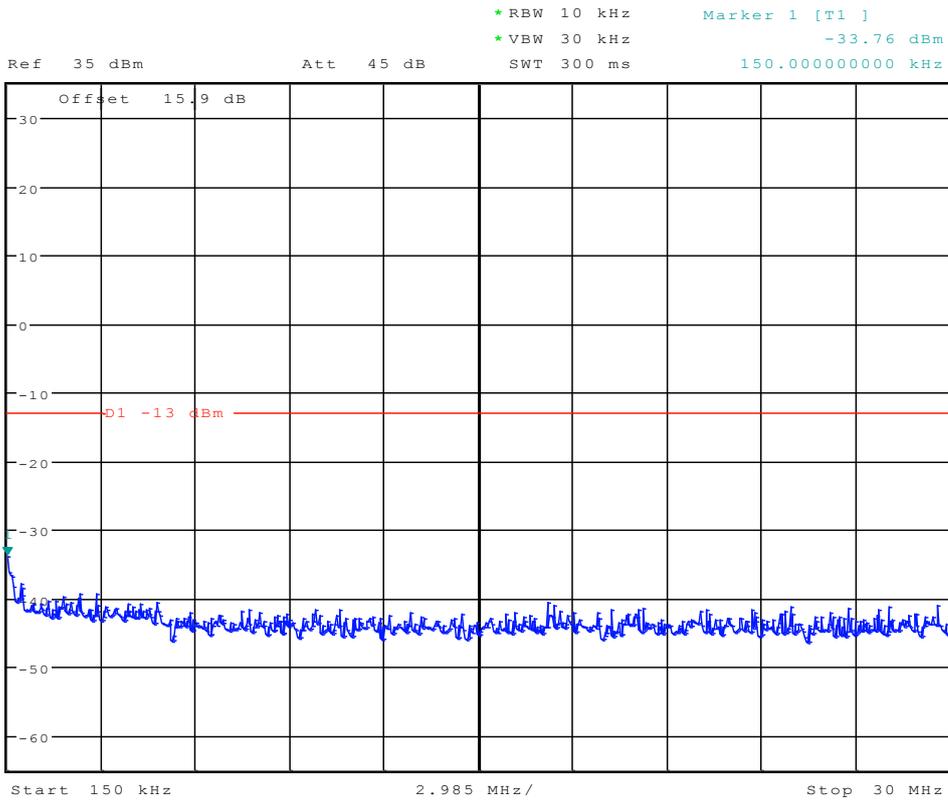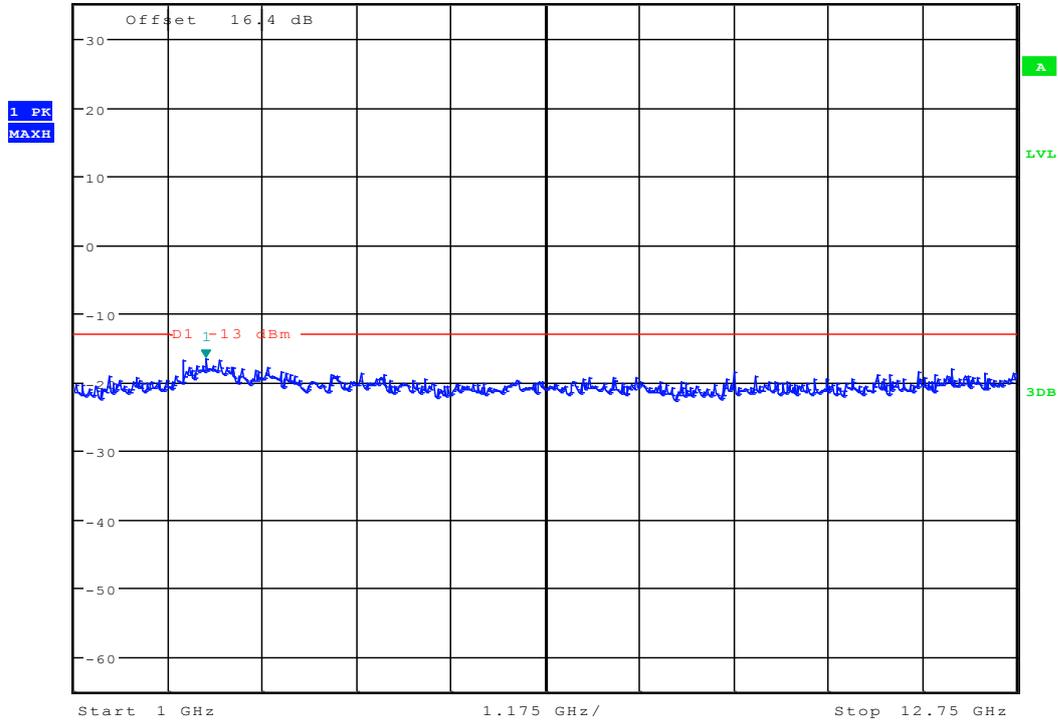
Date: 13.APR.2012 23:51:52

Modulation：QPSK
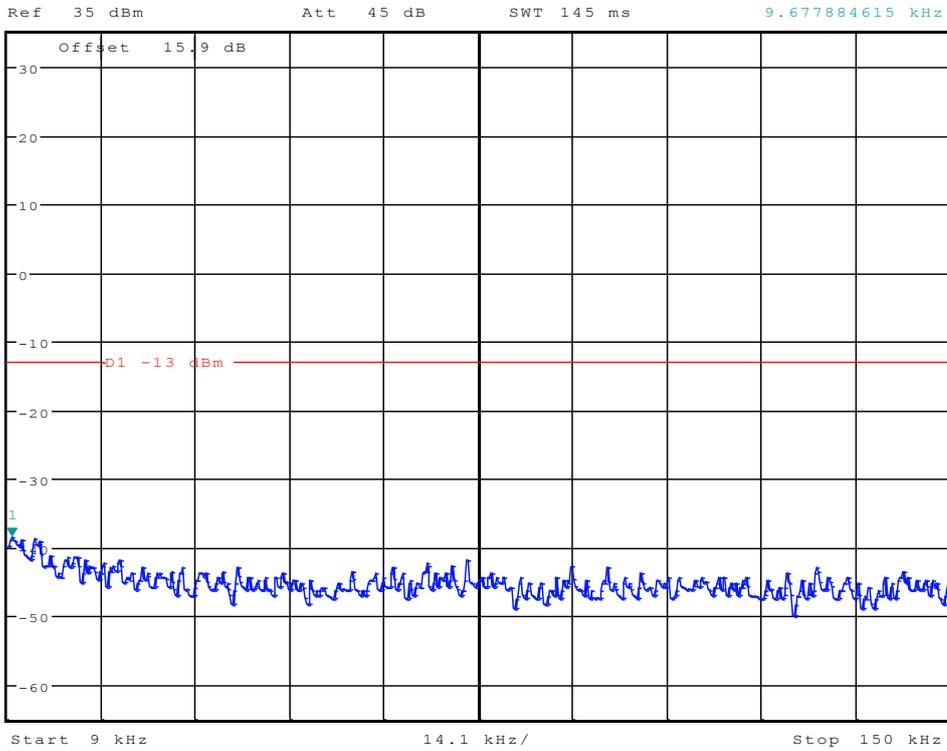
Date: 13.APR.2012 23:52:18

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Date: 13.APR.2012 23:52:43

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              22.00 dBm
     Ref   35 dBm         Att  45 dB  SWT  100 ms      838.333333333 MHz
```



```
Date: 13.APR.2012  23:53:09
```
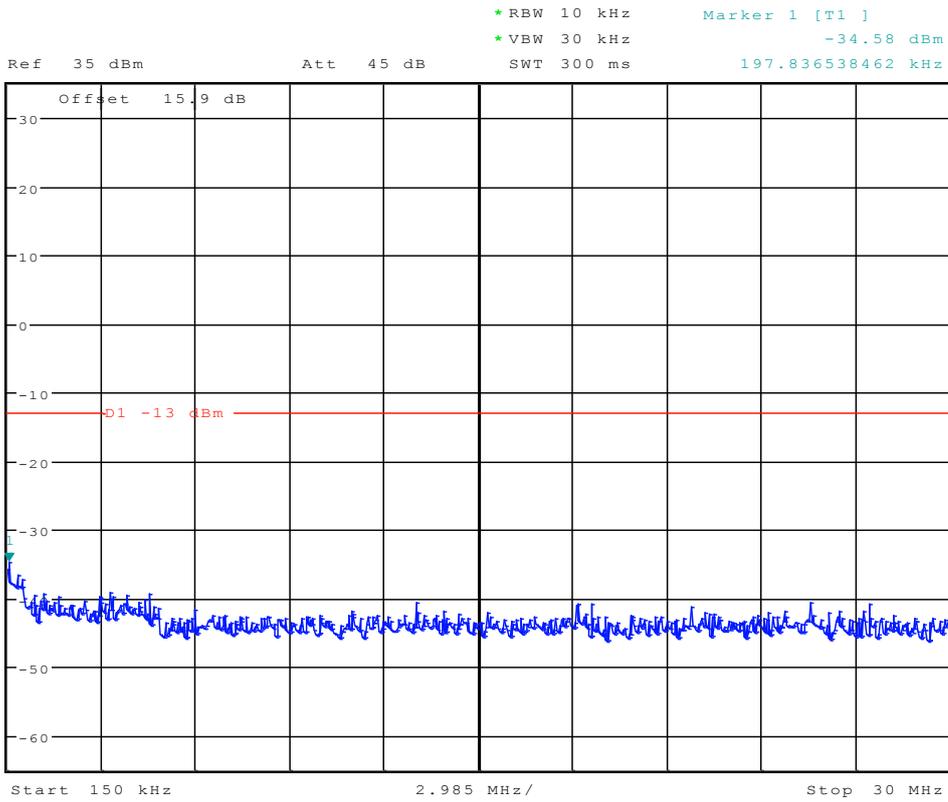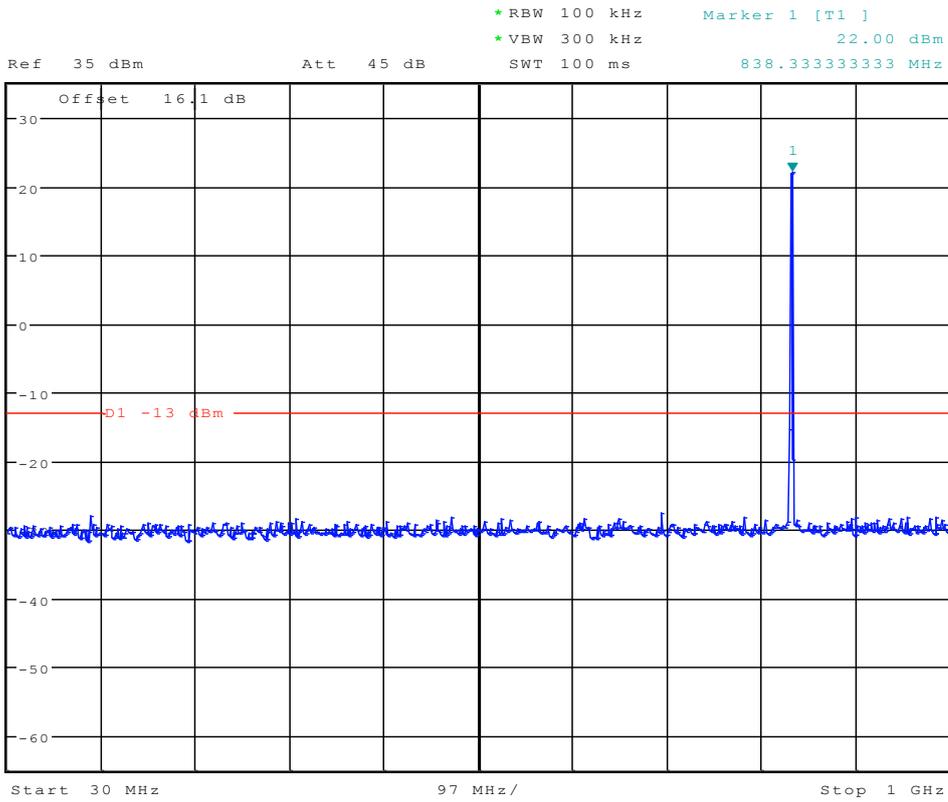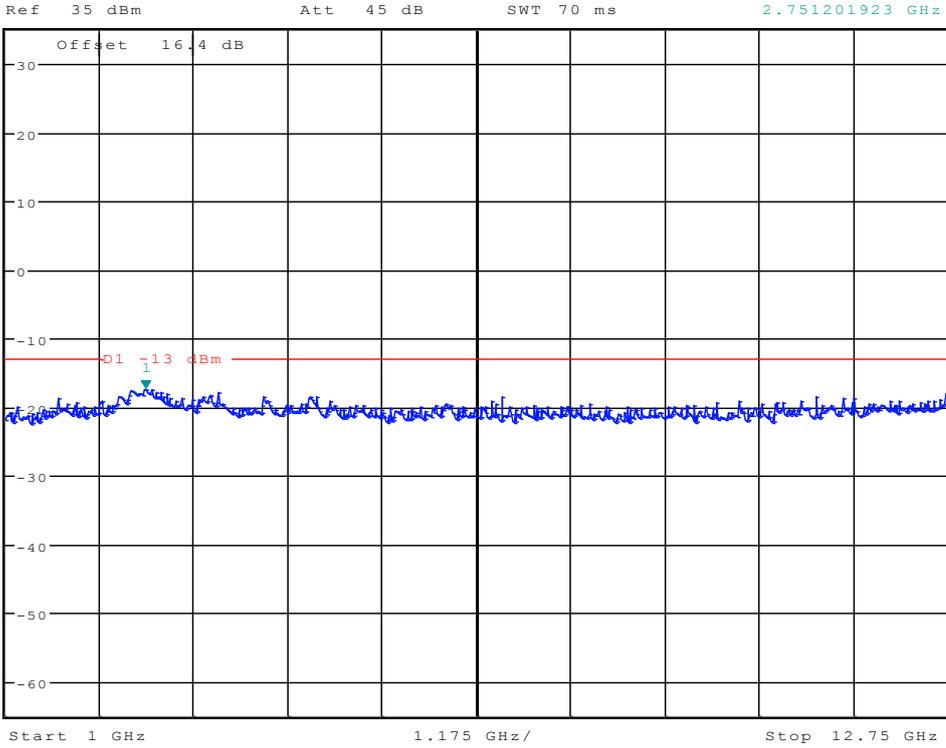
Date: 13.APR.2012 23:53:35

Modulation：8PSK

```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW  10 kHz                  -38.19 dBm
        Ref   35 dBm          Att   45 dB   SWT 145 ms        9.000000000 kHz

         Offset   15.9 dB
        -30                                                                        A

1 PK    -20                                                                        LVL
MAXH
        -10

         -0

        -10
            D1 -13 dBm
        -20                                                                        3DB

        -30


        -50

        -60

        Start  9 kHz                14.1 kHz/                 Stop  150 kHz
```
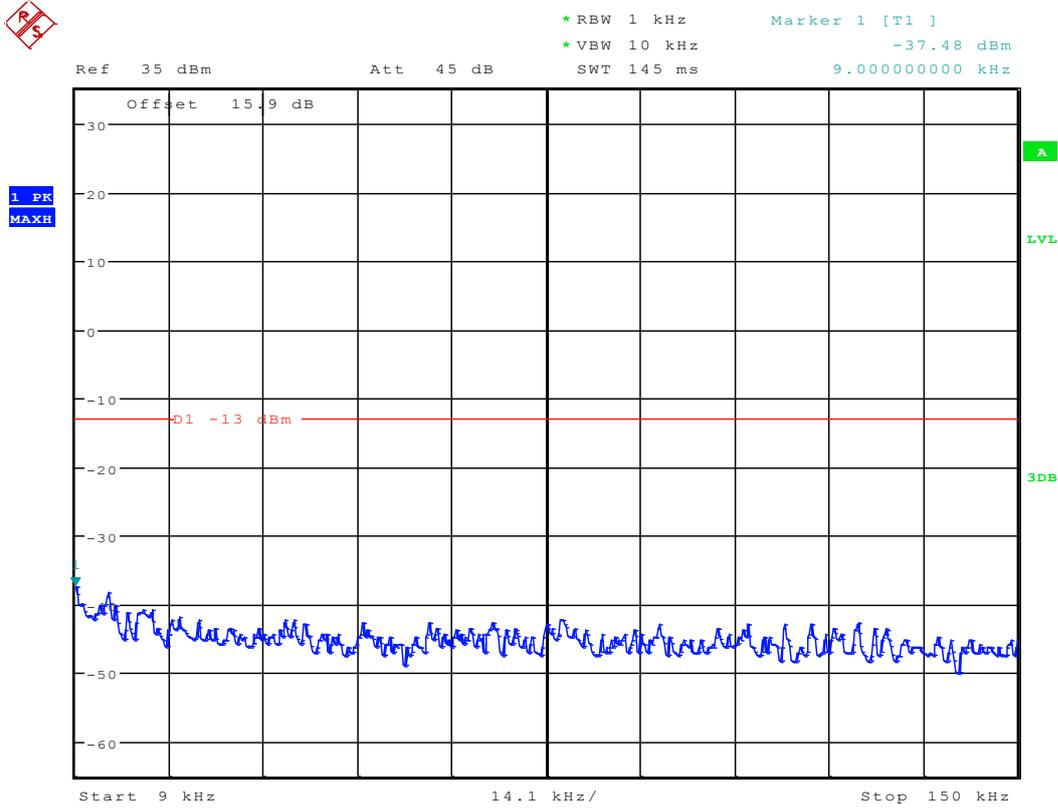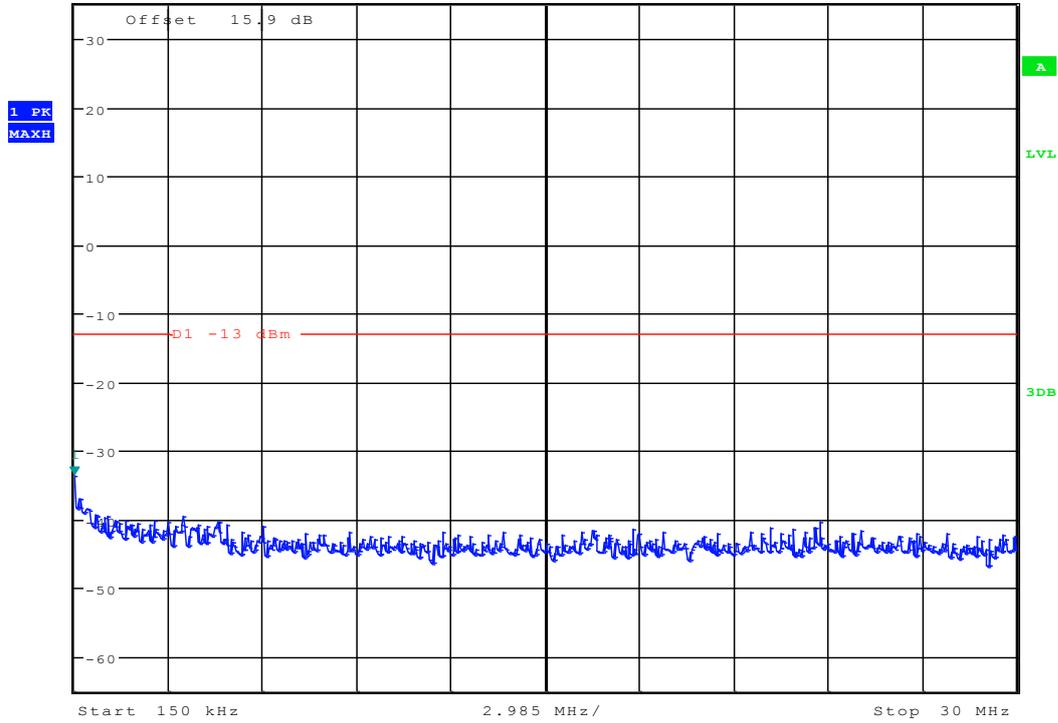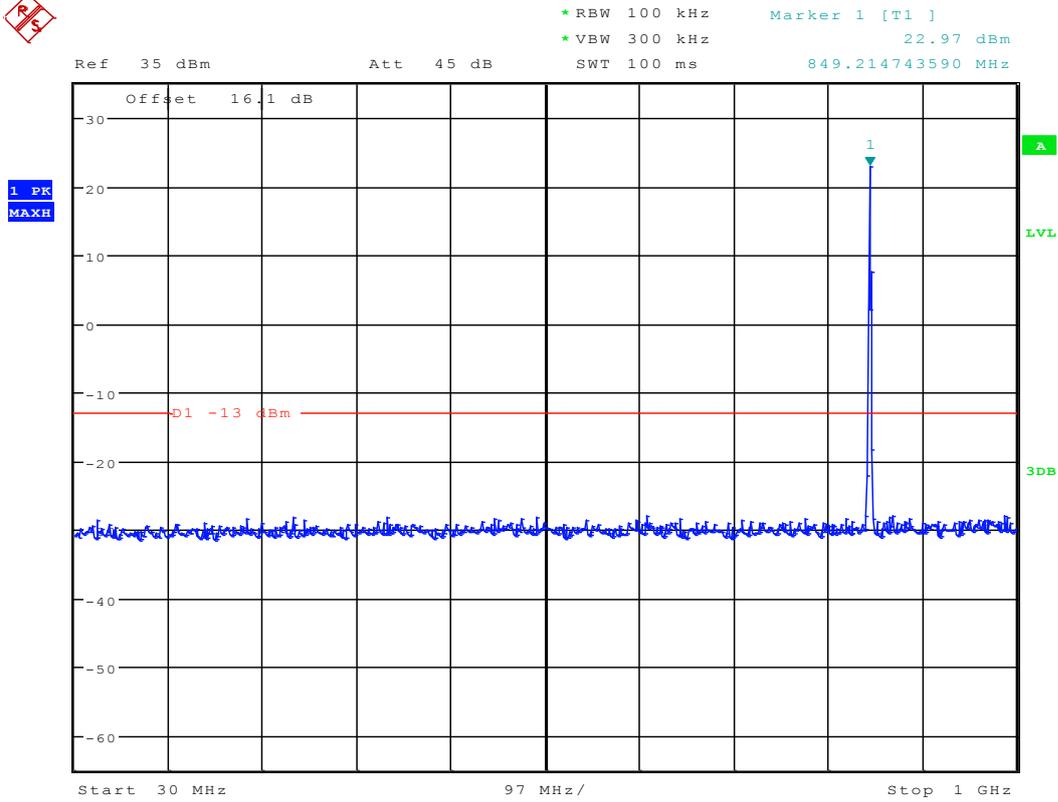
Date: 13.APR.2012 23:54:00

Date: 13.APR.2012 23:54:26
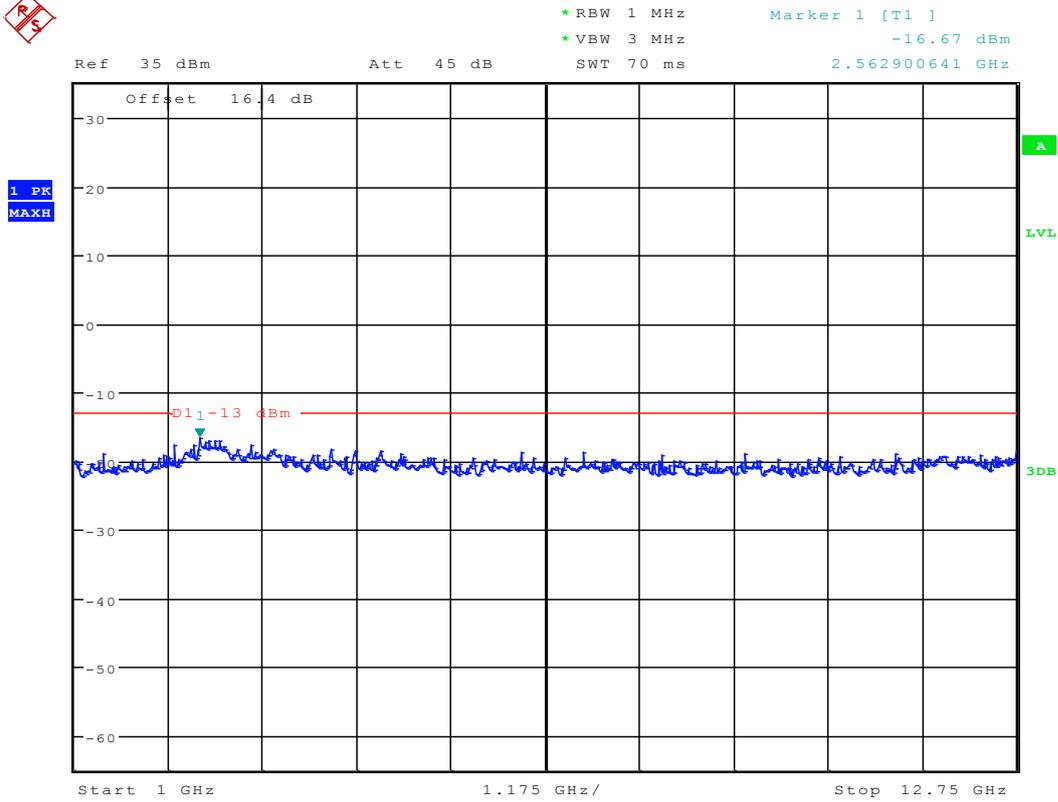
```
                                    * RBW 100 kHz        Marker 1 [T1 ]
                                    * VBW 300 kHz              22.56 dBm
        Ref  35 dBm      Att  45 dB   SWT 100 ms       836.778846154 MHz
        Offset   16.1 dB
   -30
1 PK  -20
MAXH
   -10

    -0

   -10
   D1 -13 dBm
   -20

   -40

   -50

   -60
   Start  30 MHz              97 MHz/              Stop  1 GHz
```
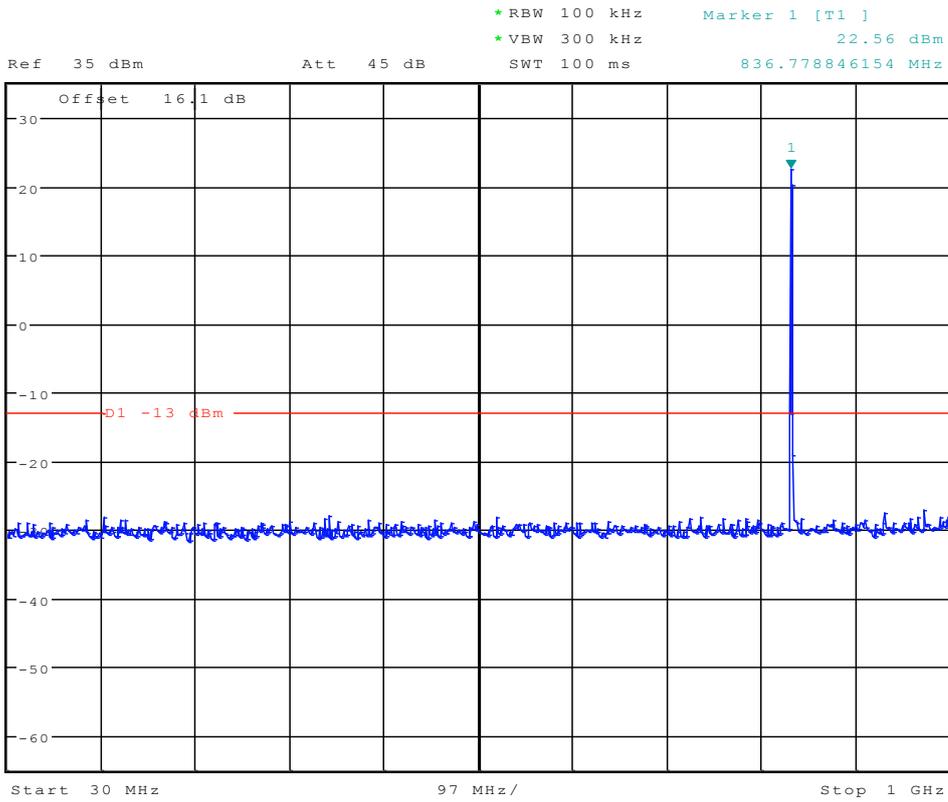
Date: 13.APR.2012 23:54:51

Date: 13.APR.2012 23:55:17

2.2.1.3 Channel = T

Modulation：BPSK


```
                                        * RBW  1 kHz          Marker 1 [T1 ]
                                        * VBW  10 kHz                    -37.48 dBm
       Ref   35 dBm          Att  45 dB   SWT 145 ms          9.000000000 kHz
          Offset   15.9 dB
```
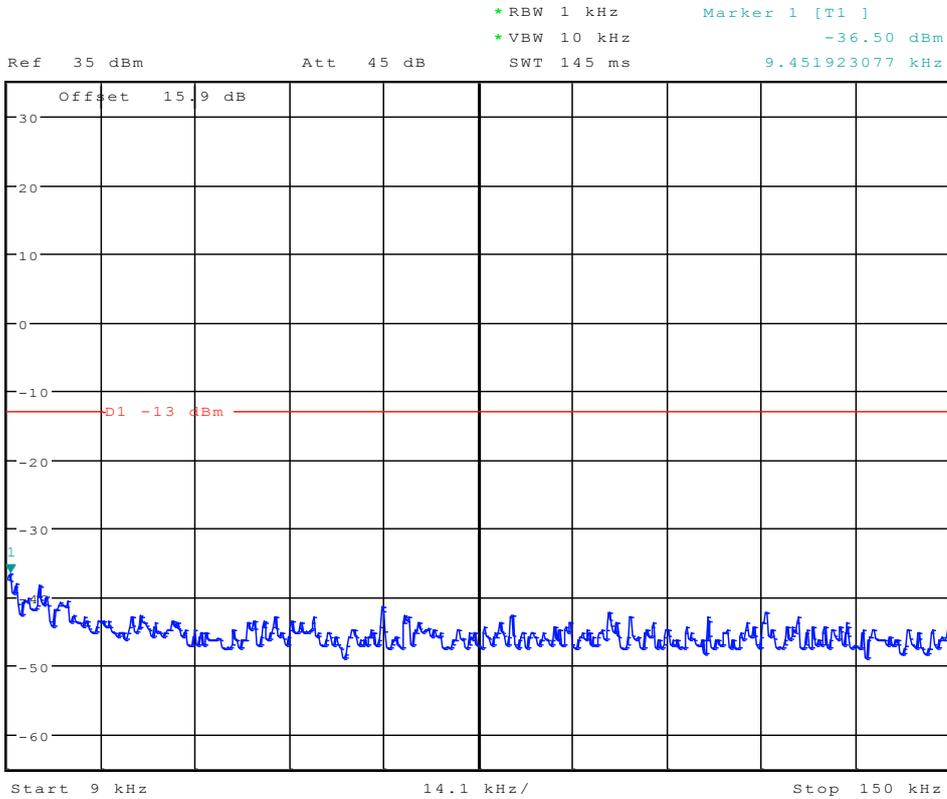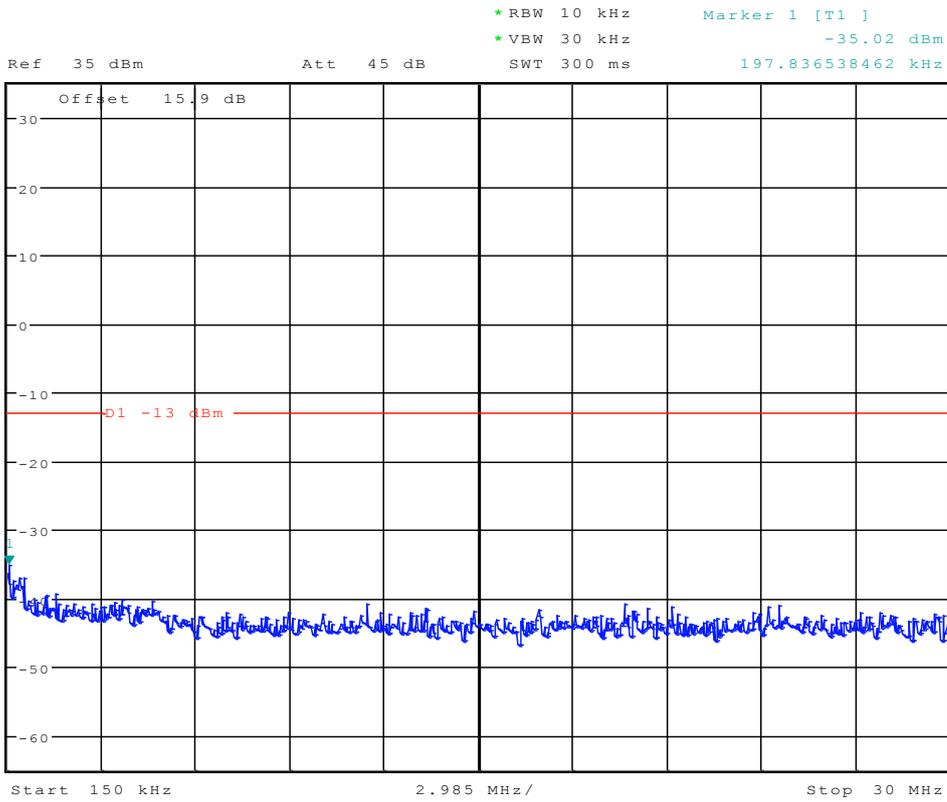
Date: 13.APR.2012 23:50:43

```
                              * RBW  10 kHz        Marker 1 [T1 ]
                              * VBW  30 kHz              -33.64 dBm
     Ref  35 dBm      Att  45 dB    SWT  300 ms     150.000000000 kHz
```

Date: 13.APR.2012 23:51:09

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              22.97 dBm
        Ref  35 dBm         Att  45 dB    SWT  100 ms    849.214743590 MHz
```



```
Start  30 MHz                   97 MHz/                    Stop  1 GHz
```

Date: 13.APR.2012 23:51:35

Offset   16.4 dB

* RBW 1 MHz
* VBW 3 MHz

Ref 35 dBm   Att 45 dB   SWT 70 ms

Marker 1 [T1]
         -16.67 dBm
2.562900641 GHz

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

Date: 13.APR.2012 23:52:01

Modulation：QPSK

Date: 13.APR.2012 23:52:26

```
                                      * RBW  10 kHz        Marker 1 [T1 ]
                                      * VBW  30 kHz               -35.02 dBm
        Ref   35 dBm        Att  45 dB    SWT 300 ms       197.836538462 kHz
```



```
Start  150 kHz              2.985 MHz/            Stop  30 MHz
```

Date: 13.APR.2012 23:52:52

Date: 13.APR.2012 23:53:17
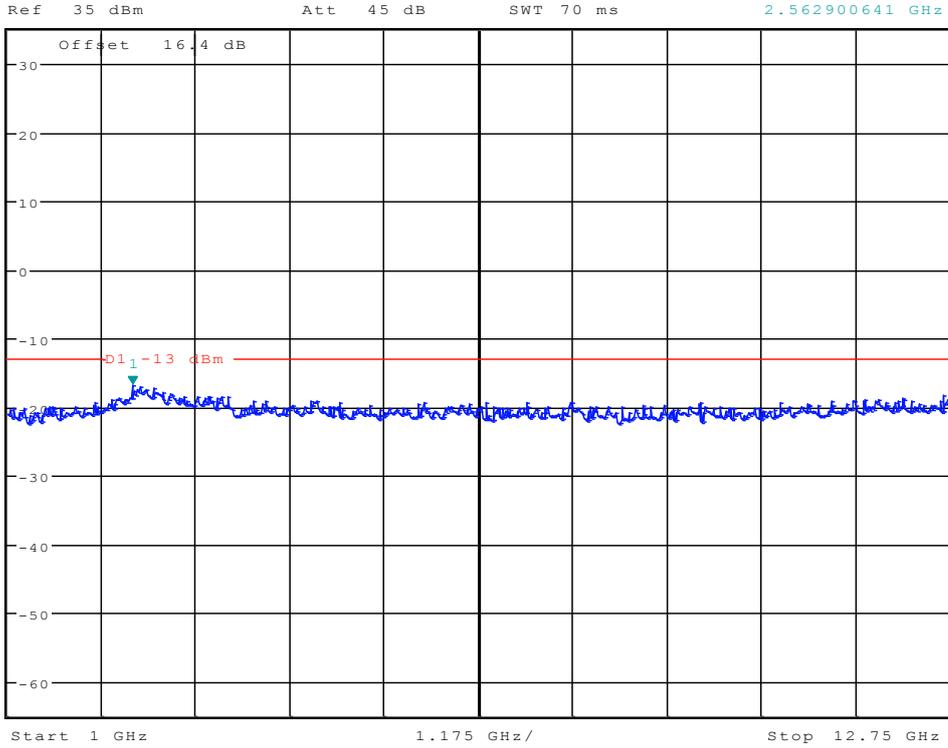
Date: 13.APR.2012 23:53:43

Modulation：8PSK


```
                                        * RBW  1 kHz      Marker 1 [T1 ]
                                        * VBW  10 kHz              -38.19 dBm
        Ref   35 dBm          Att  45 dB   SWT  145 ms     38.600961538 kHz
```
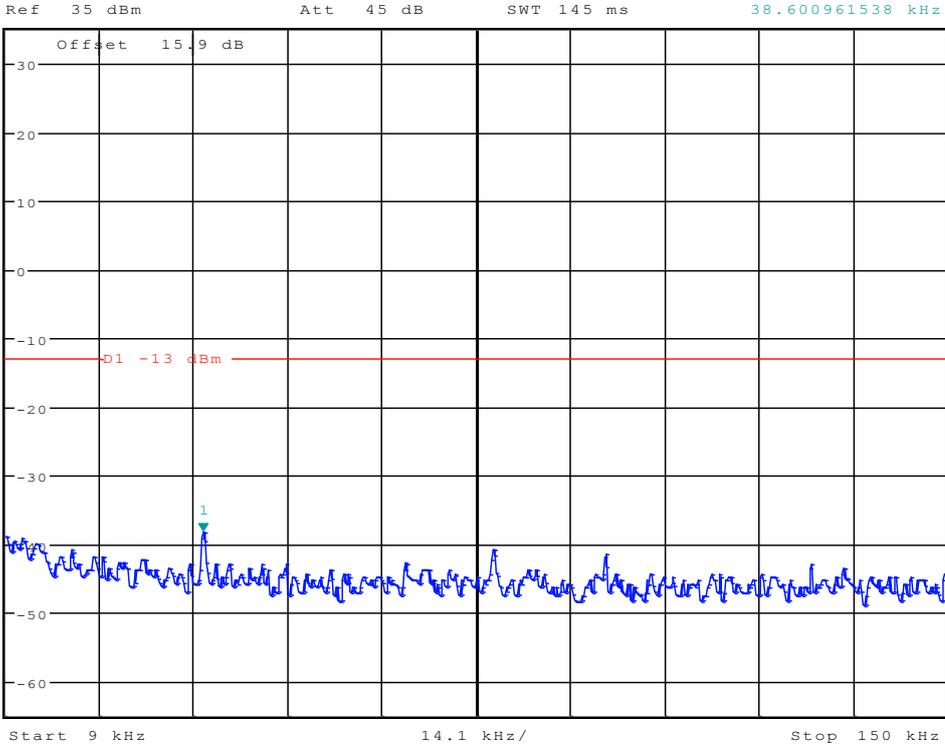
Date: 13.APR.2012 23:54:09

Date: 13.APR.2012 23:54:34

```
                                              * RBW  100 kHz      Marker 1 [T1 ]
                                              * VBW  300 kHz              22.34 dBm
        Ref  35 dBm            Att  45 dB     SWT  100 ms        849.214743590 MHz
```
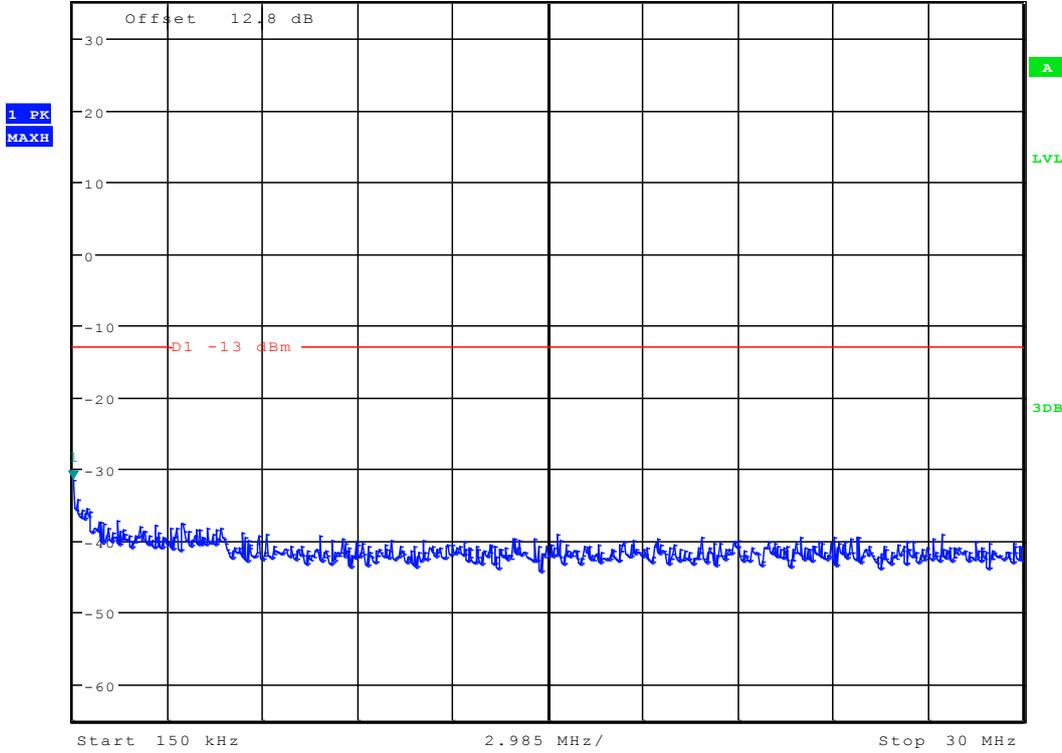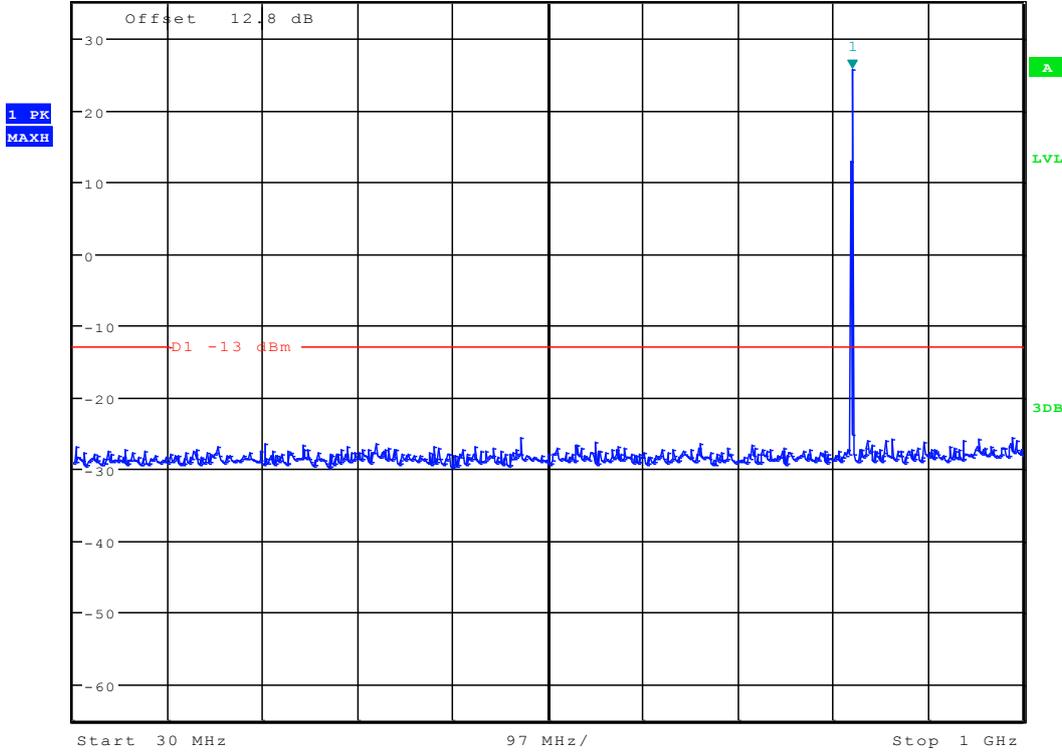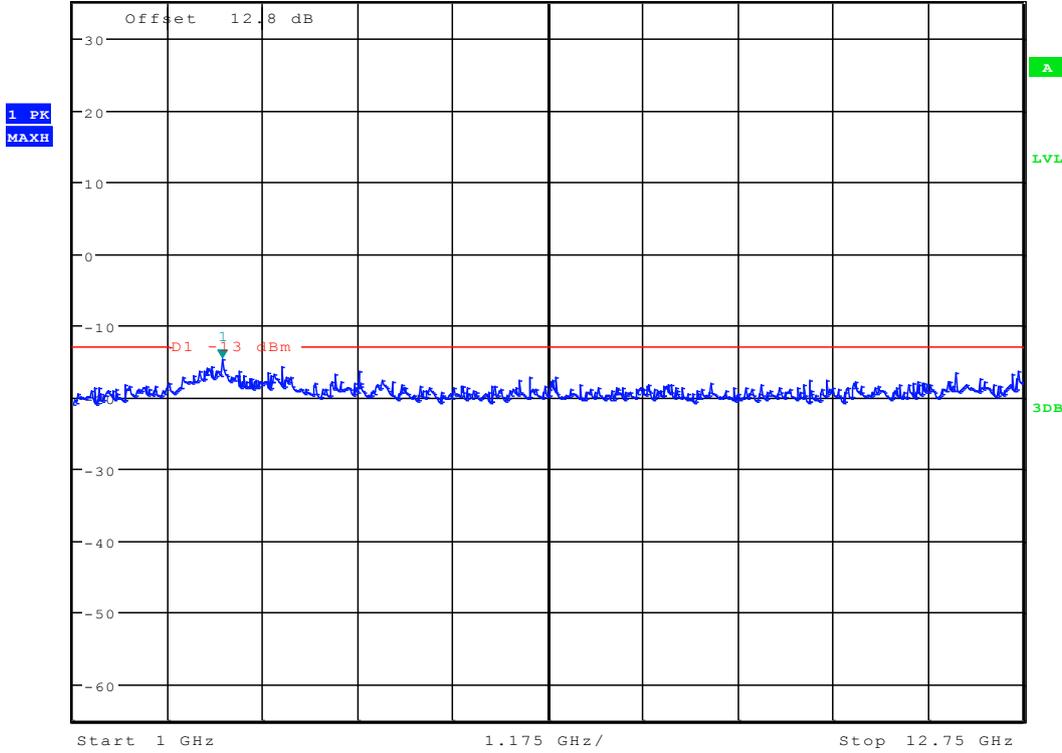


```
Start  30 MHz                    97 MHz/                      Stop  1 GHz
```

Date: 13.APR.2012 23:55:00

```
                                    * RBW  1 MHz          Marker 1 [T1 ]
                                    * VBW  3 MHz                -16.89 dBm
        Ref   35 dBm      Att  45 dB    SWT  70 ms      4.841346154 GHz
```



```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```
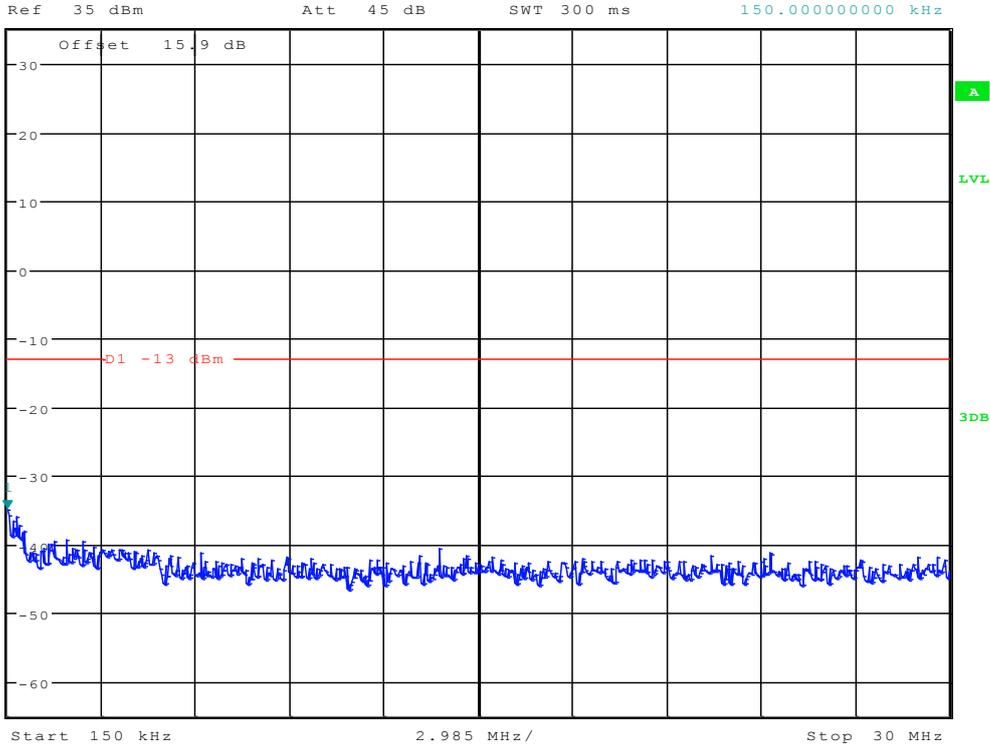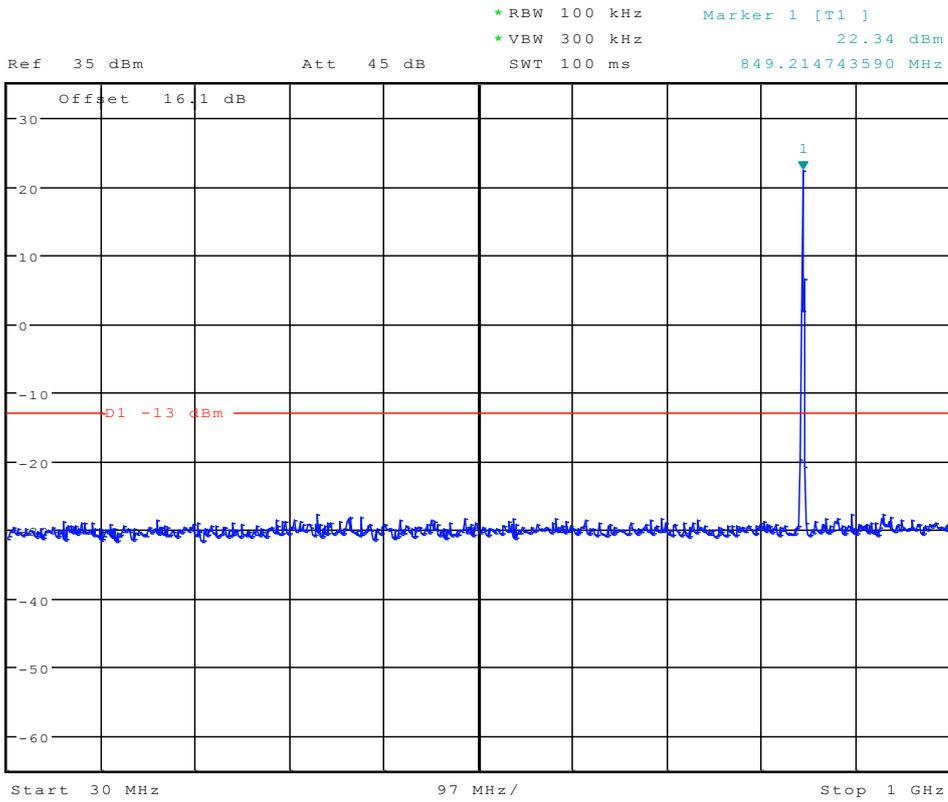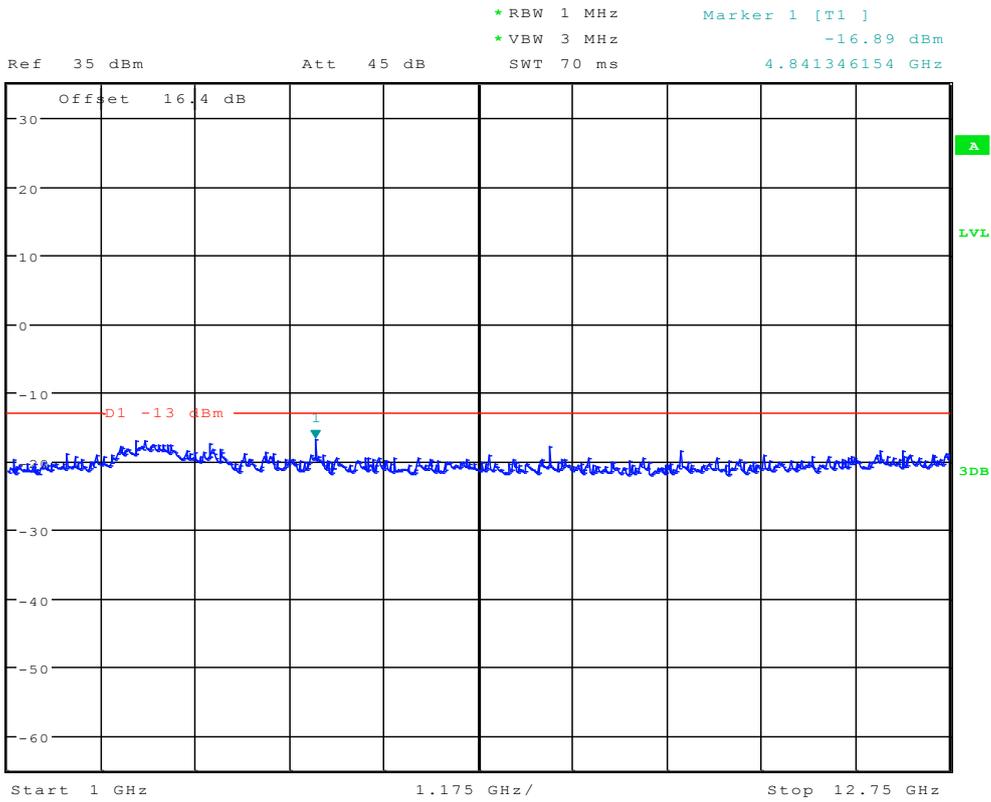
Date: 13.APR.2012 23:55:26

3   For Band 5

NOTE1: QPSK output power higher than 16QAM, so only test the QPSK mode.
NOTE2: All relevant operation modes have been tested, and the 1RB&full RB case data is included in this report.

3.1   Test Mode=TM4

3.1.1   Channel Bandwidth = Lowest (1.4 MHz)

3.1.1.1   Channel = B

3.1.1.1.1 QPSK/1RBs /RB #0

```
                                      * RBW  1 kHz        Marker 1 [T1 ]
                                      * VBW  10 kHz                -28.66 dBm
     Ref   35 dBm        Att   50 dB    SWT  145 ms        10.807692308 kHz
```
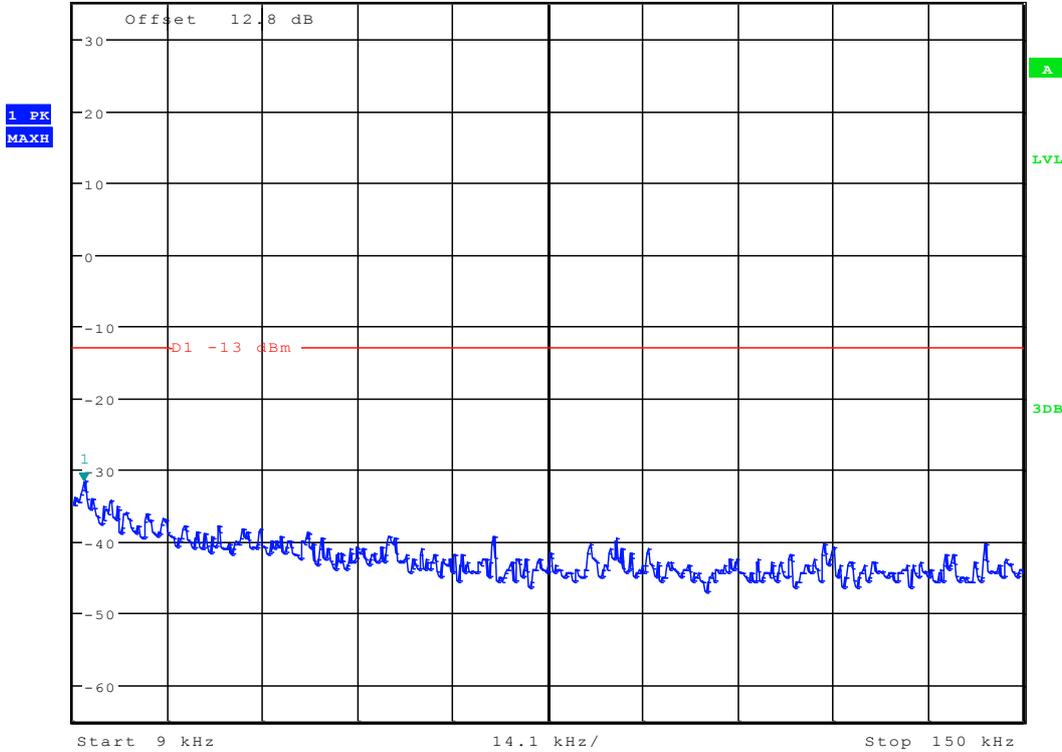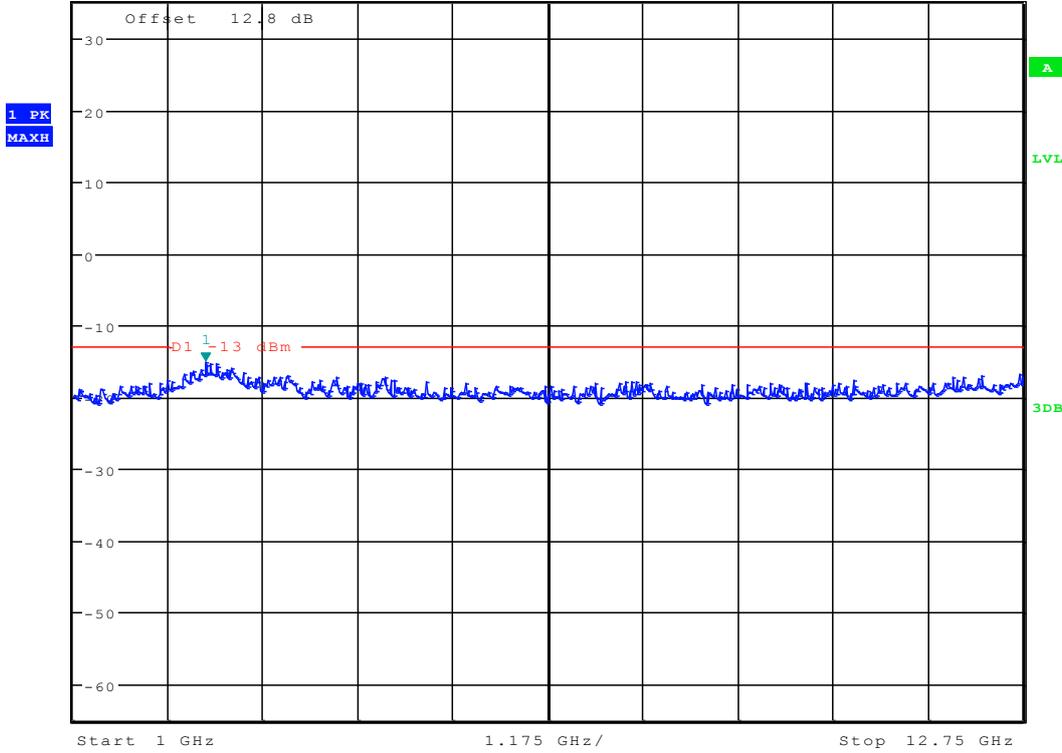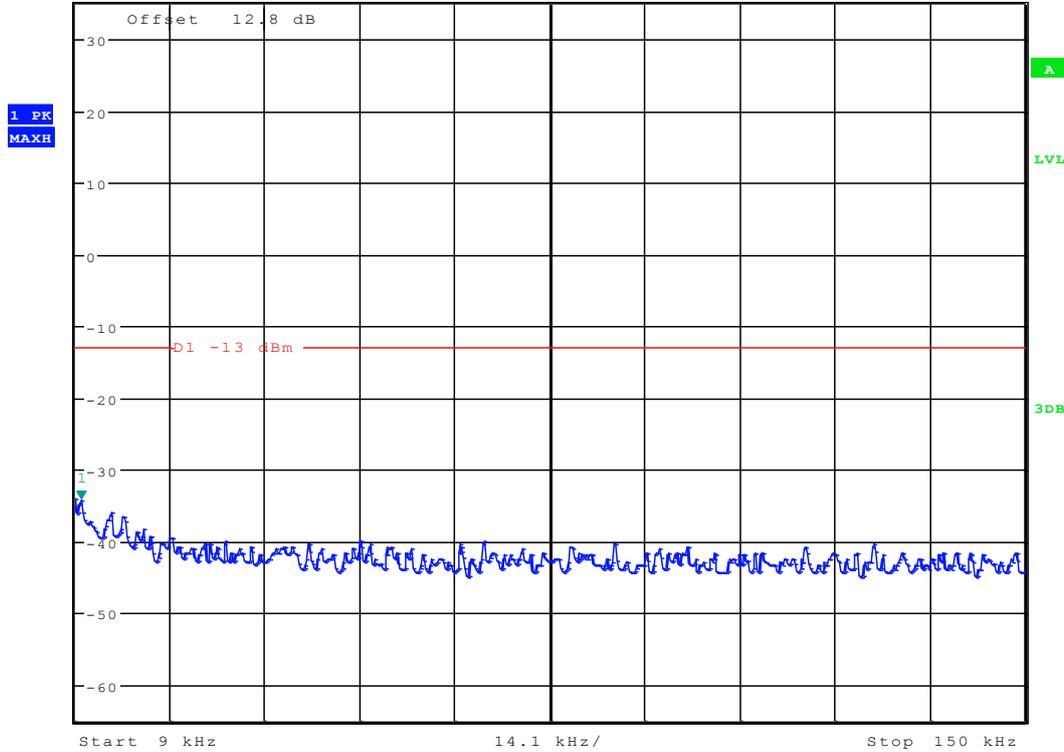


```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
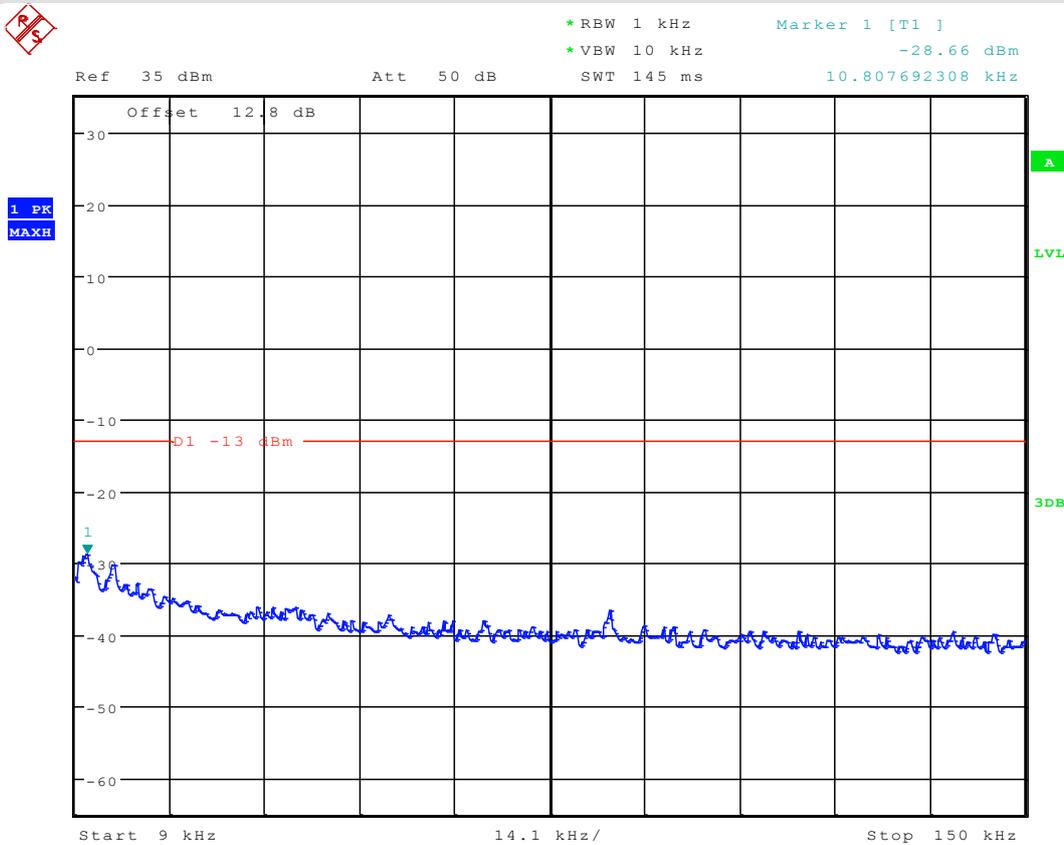
Date: 18.APR.2012 12:31:50

```
 * RBW  10 kHz          Marker 1 [T1 ]
 * VBW  30 kHz                  -31.42 dBm
Ref  35 dBm        Att  50 dB   SWT  300 ms       150.000000000 kHz

     Offset  12.8 dB
  -30                                                                A
  -20                                                                LVL
  -10
    0
  -10 ──D1 -13 dBm─────────────────────────────────────────────────
  -20                                                                3DB
  -30
  -40
  -50
  -60
Start  150 kHz          2.985 MHz/              Stop  30 MHz
```

1 PK
MAXH

Date: 18.APR.2012 12:34:50

Date: 18.APR.2012 12:37:02

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Date: 18.APR.2012 12:38:21

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3.1.1.1.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz          Marker 1 [T1 ]
                                    * VBW  10 kHz                 -31.69 dBm
        Ref  35 dBm         Att  50 dB    SWT 145 ms      10.581730769 kHz
```
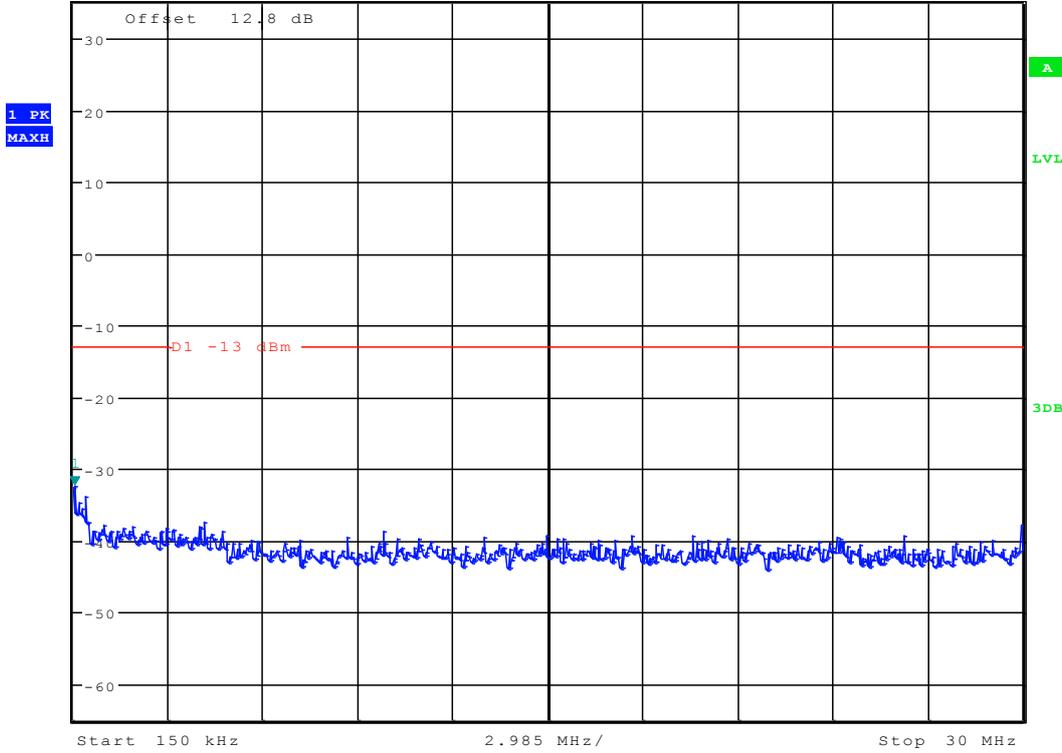

Date: 18.APR.2012 12:32:16

```
                                    * RBW  10 kHz       Marker 1 [T1 ]
                                    * VBW  30 kHz                -31.69 dBm
   Ref   35 dBm         Att  50 dB   SWT  300 ms        197.836538462 kHz
```
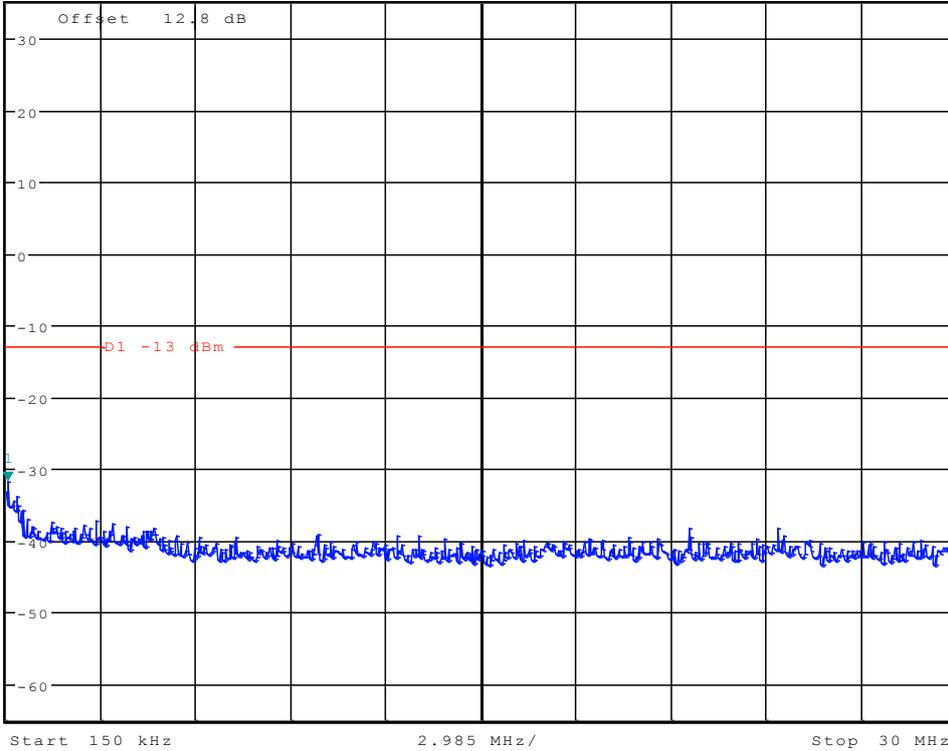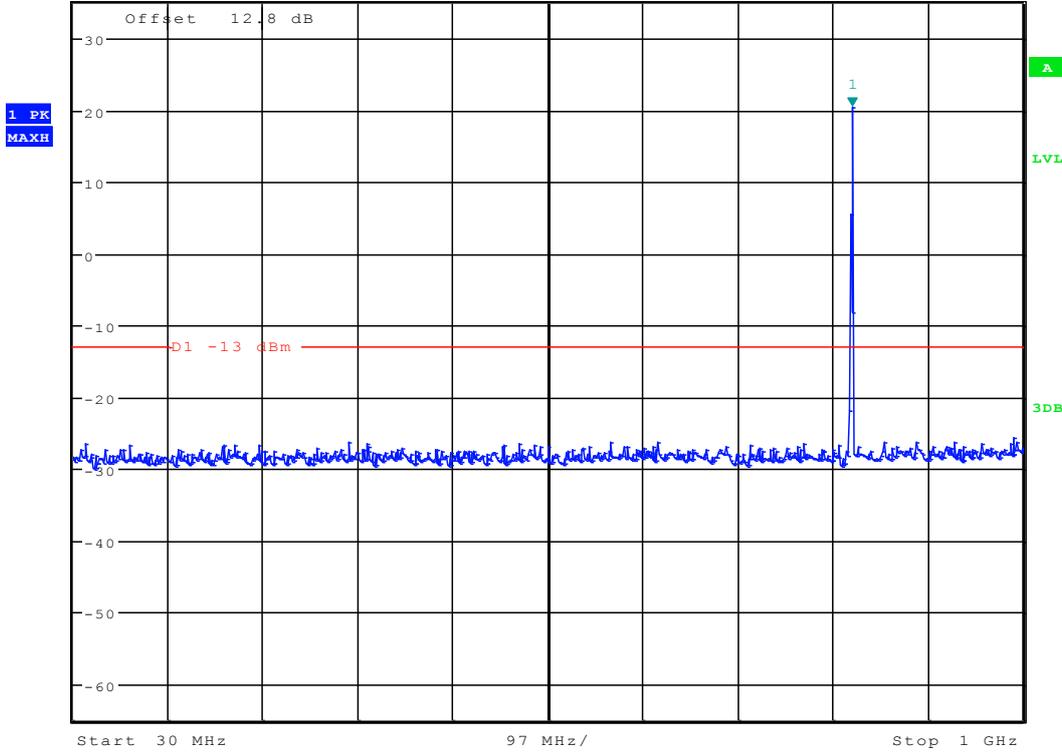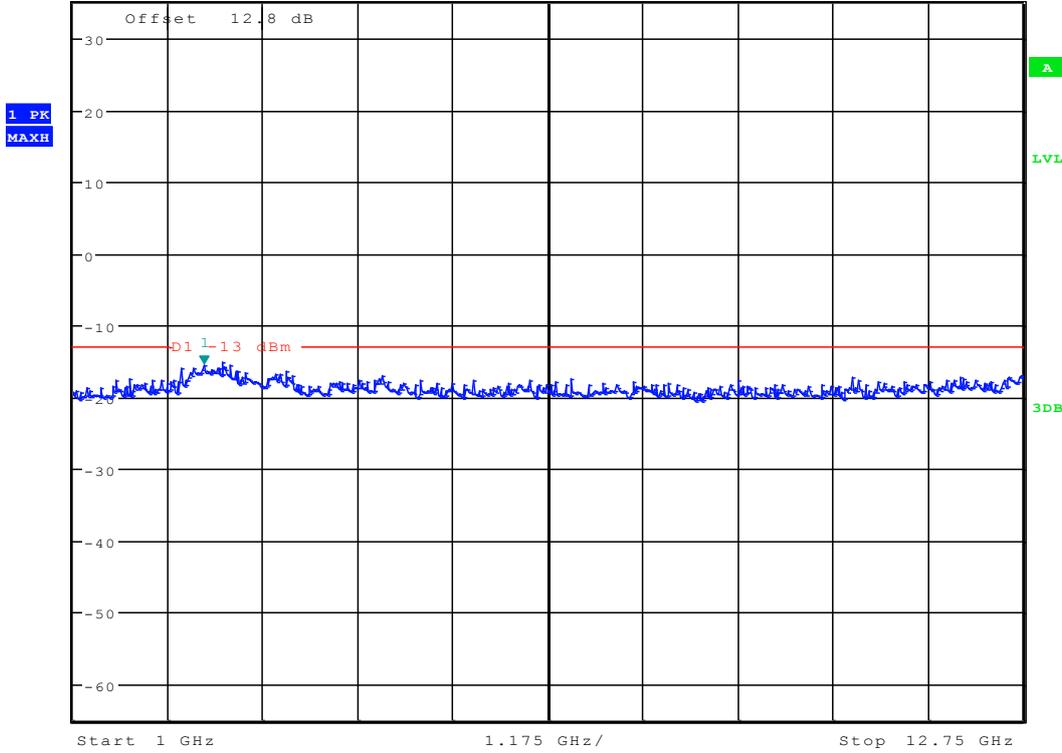


```
   Date: 18.APR.2012  12:35:21
```
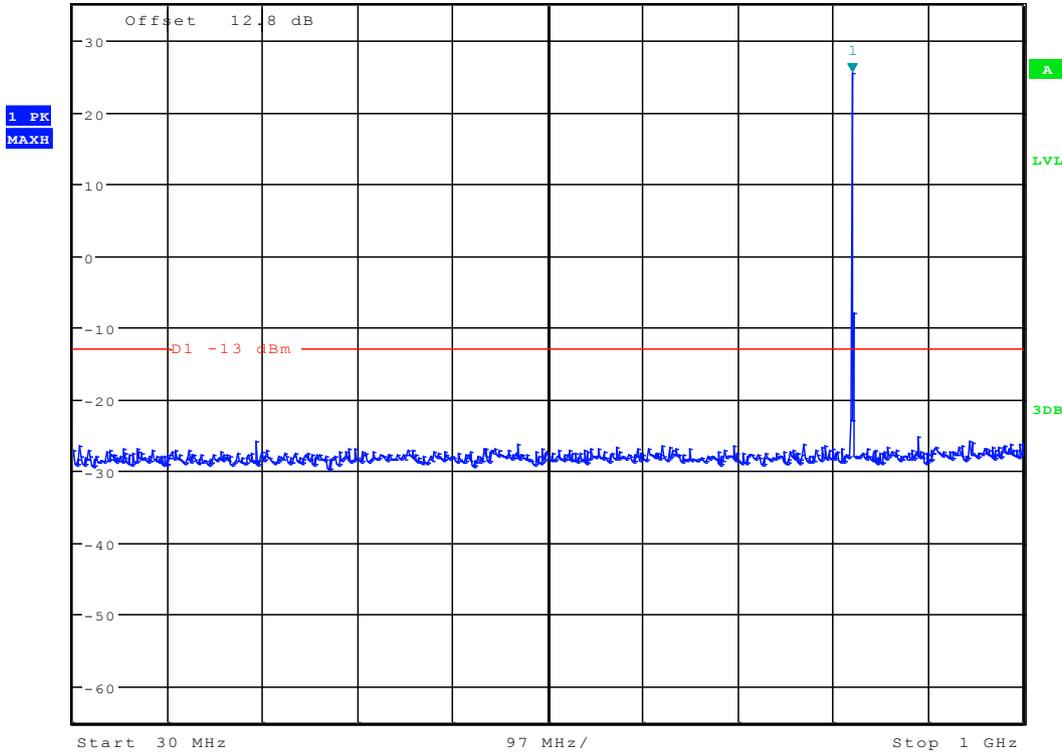
Date: 18.APR.2012 12:36:41

```
                                        * RBW  1 MHz          Marker 1 [T1 ]
                                        * VBW  3 MHz                -15.16 dBm
        Ref   35 dBm        Att  50 dB    SWT  70 ms        2.638221154 GHz

        Offset  12.8 dB
  30

                                                                              A
1 PK
MAXH
  20
                                                                              LVL
  10

   0

 -10    D1  -13 dBm                                                           3DB


 -30

 -40

 -50

 -60

   Start  1 GHz           1.175 GHz/              Stop  12.75 GHz
```
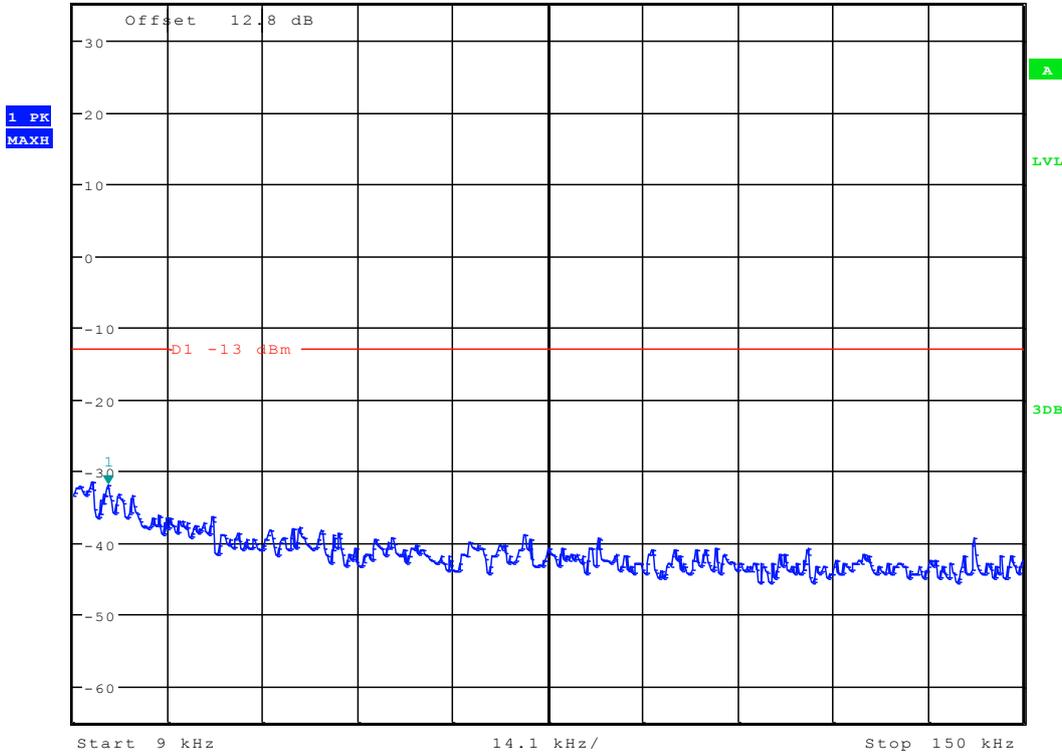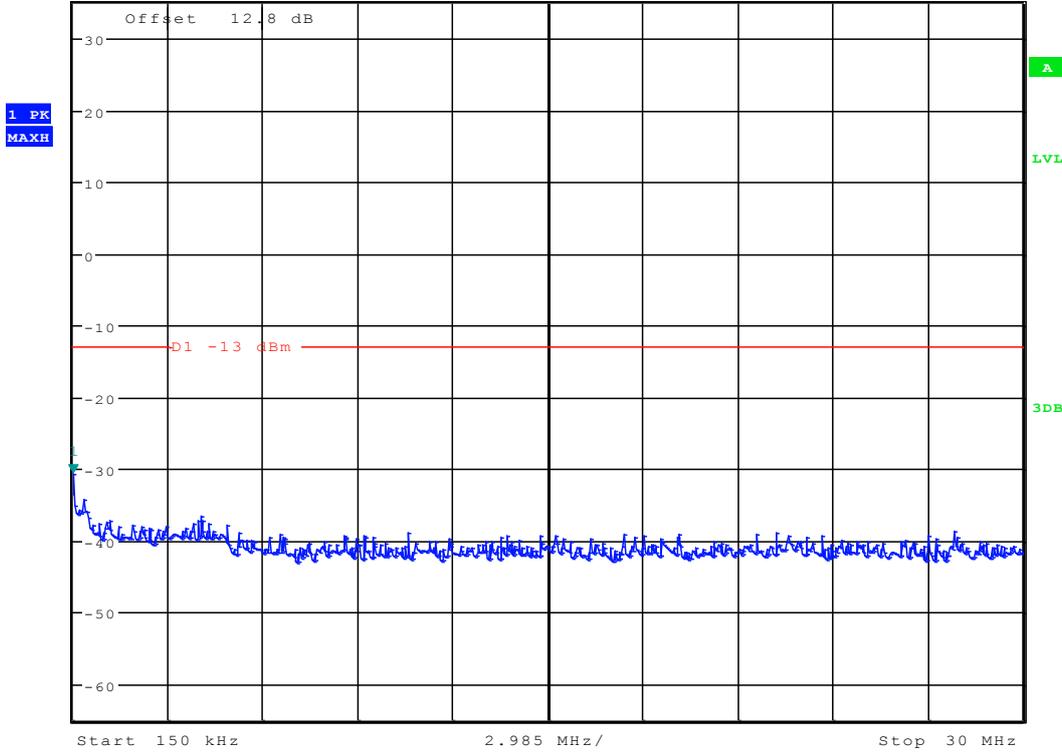
Date: 18.APR.2012 12:38:39

3.1.1.1.3 QPSK/full RBs


```
* RBW 1 kHz          Marker 1 [T1 ]
* VBW 10 kHz                    -34.22 dBm
Ref  35 dBm        Att  50 dB    SWT 145 ms     9.903846154 kHz

Offset  12.8 dB

1 PK
MAXH

D1 -13 dBm

Start 9 kHz          14.1 kHz/          Stop 150 kHz
```

Date: 18.APR.2012 12:32:51
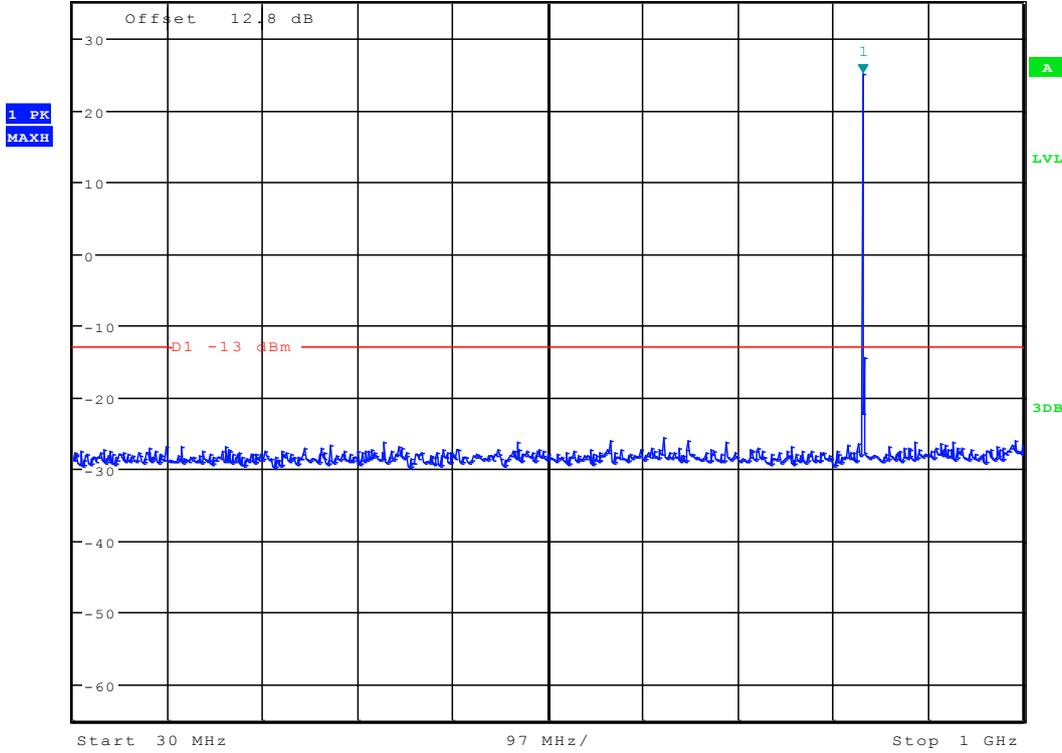
```
                              * RBW  10 kHz      Marker 1 [T1 ]
                              * VBW  30 kHz                -32.26 dBm
     Ref   35 dBm    Att  50 dB   SWT 300 ms    197.836538462 kHz

     Offset  12.8 dB

      30
      20
      10
       0
     -10   D1 -13 dBm
     -20
     -30
     -40
     -50
     -60

     Start  150 kHz        2.985 MHz/         Stop  30 MHz
```
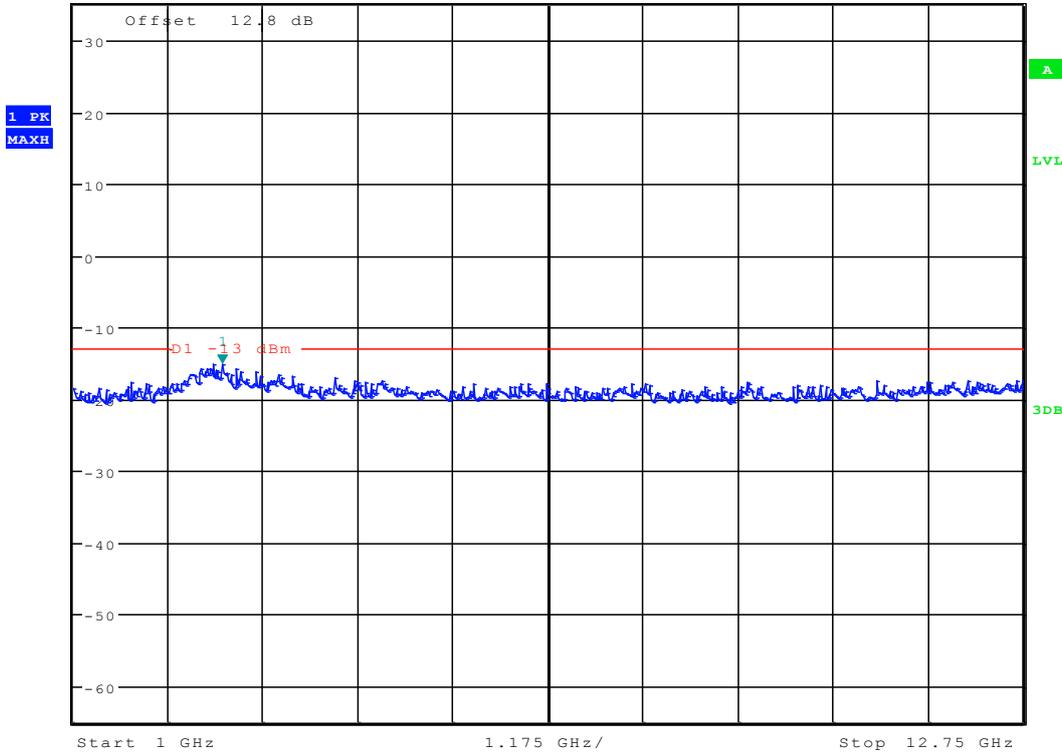
1 PK
MAXH

A

LVL

3DB

Date: 18.APR.2012 12:33:29

```
                                    * RBW  100 kHz        Marker 1 [T1 ]
                                    * VBW  300 kHz              20.35 dBm
     Ref   35 dBm        Att   50 dB    SWT  100 ms       825.897435897 MHz
```
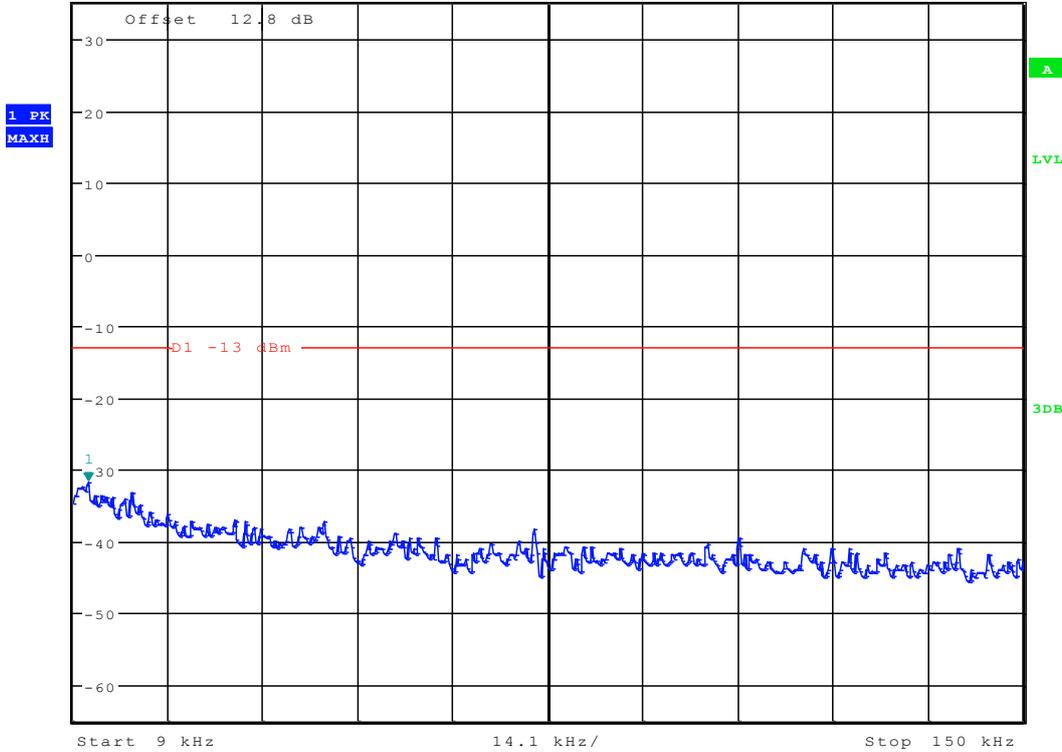


```
Date: 18.APR.2012  12:37:23
```

Date: 18.APR.2012 12:38:04

3.1.1.2 Channel = M

3.1.1.2.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 12:50:02

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```
                                        * RBW  10 kHz        Marker 1 [T1 ]
                                        * VBW  30 kHz                 -30.70 dBm
     Ref   35 dBm          Att  50 dB    SWT  300 ms        150.000000000 kHz
```



```
Date: 18.APR.2012  12:48:19
```

```
                                    * RBW 100 kHz      Marker 1 [T1 ]
                                    * VBW 300 kHz              25.02 dBm
     Ref   35 dBm        Att  50 dB   SWT 100 ms      836.778846154 MHz
```
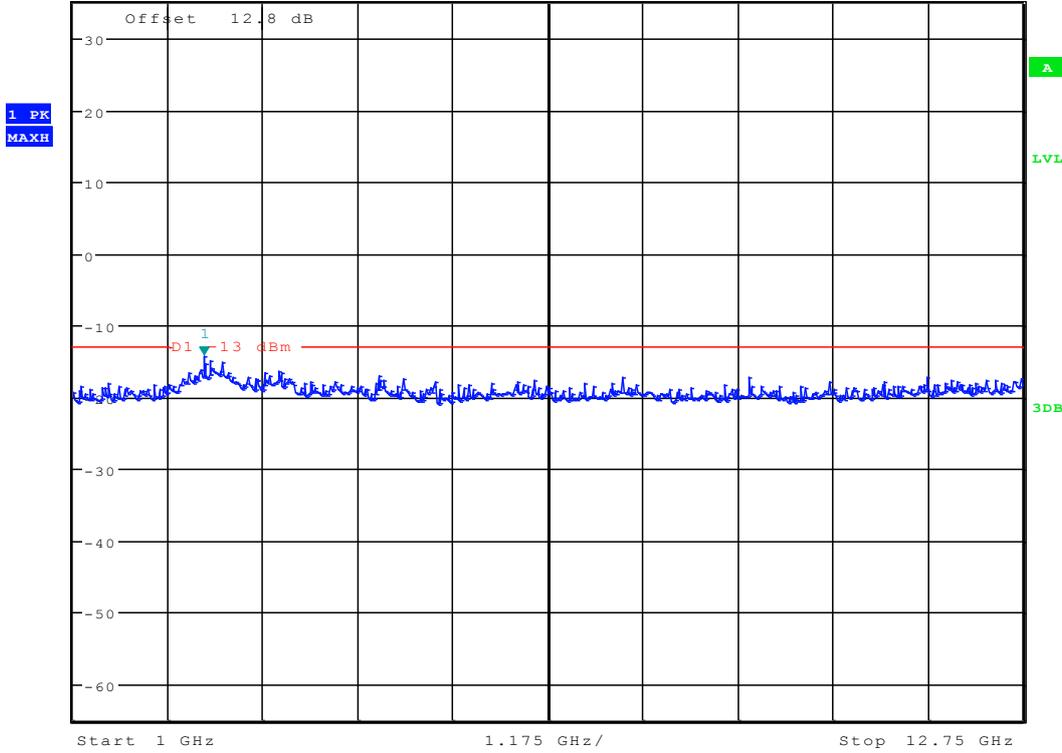
Date: 18.APR.2012 12:44:43

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                   -15.05 dBm
      Ref   35 dBm        Att  50 dB   SWT  70 ms       2.845352564 GHz
```



```
Start  1 GHz           1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 12:40:10

3.1.1.2.2 QPSK/1RBs /RB #max


```
                                    * RBW 1 kHz          Marker 1 [T1 ]
                                    * VBW 10 kHz                  -31.69 dBm
        Ref  35 dBm          Att  50 dB    SWT 145 ms     11.259615385 kHz

            Offset   12.8 dB

          -30

1 PK      -20                                                              A
MAXH
          -10                                                             LVL

           0

          -10
          D1 -13 dBm

          -20                                                            3DB

          -30
            1

          -40

          -50

          -60

        Start 9 kHz            14.1 kHz/          Stop  150 kHz
```
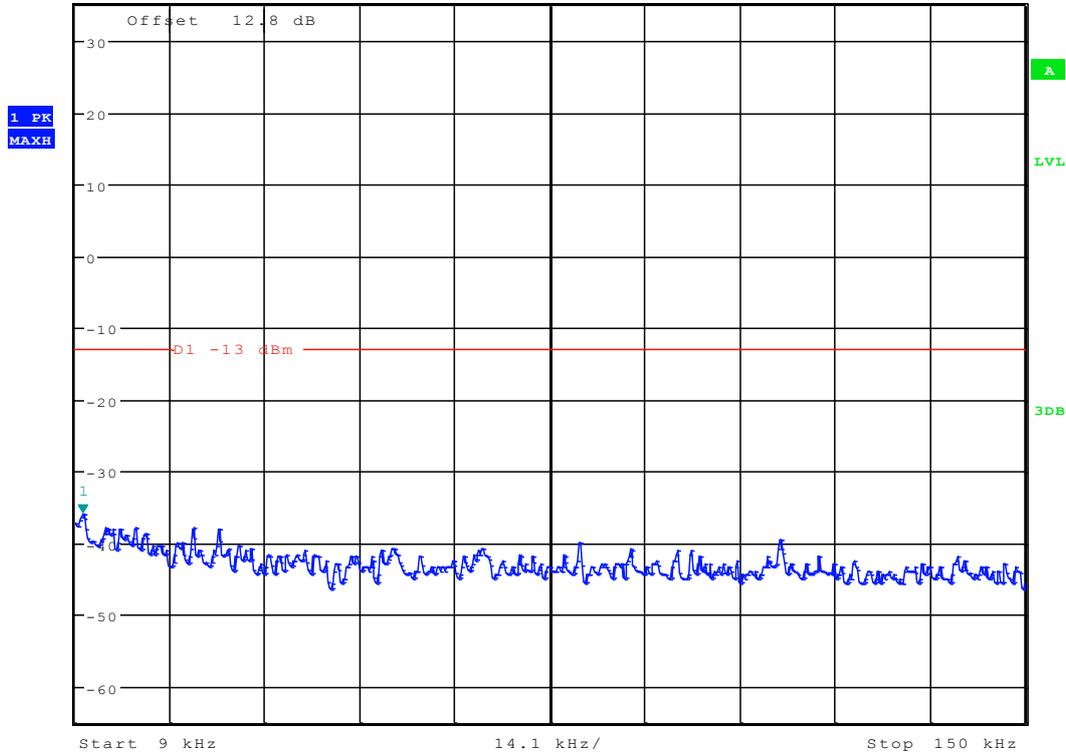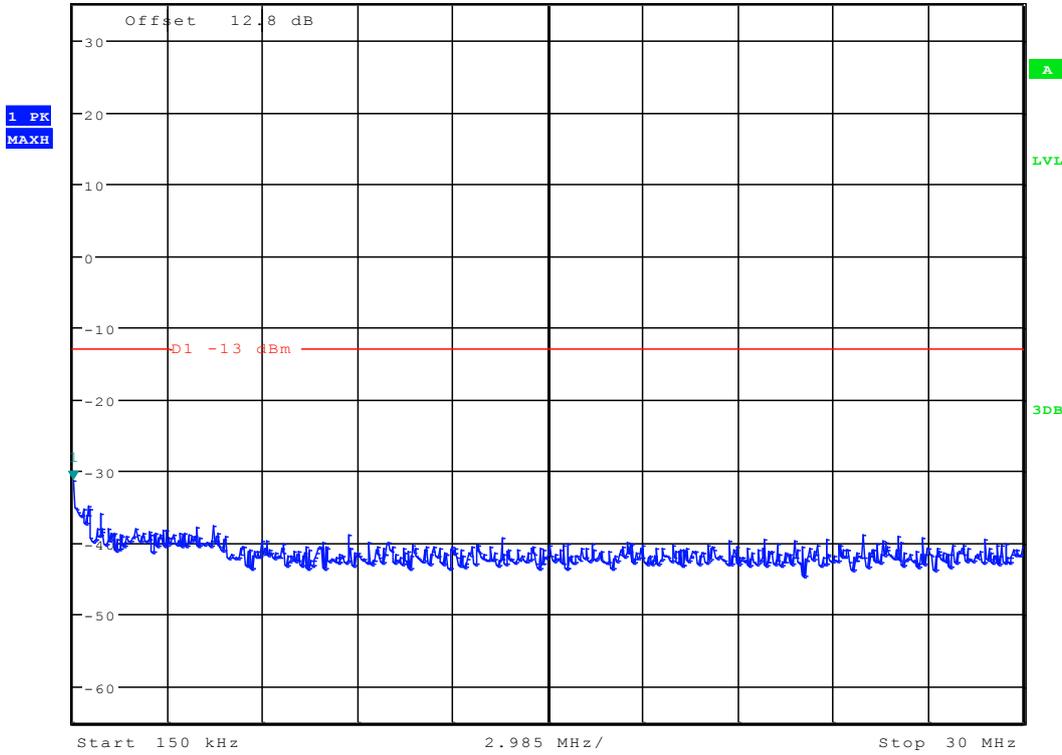
Date: 18.APR.2012 12:50:31

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```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                -31.05 dBm
      Ref  35 dBm        Att  50 dB   SWT 300 ms         197.836538462 kHz
```
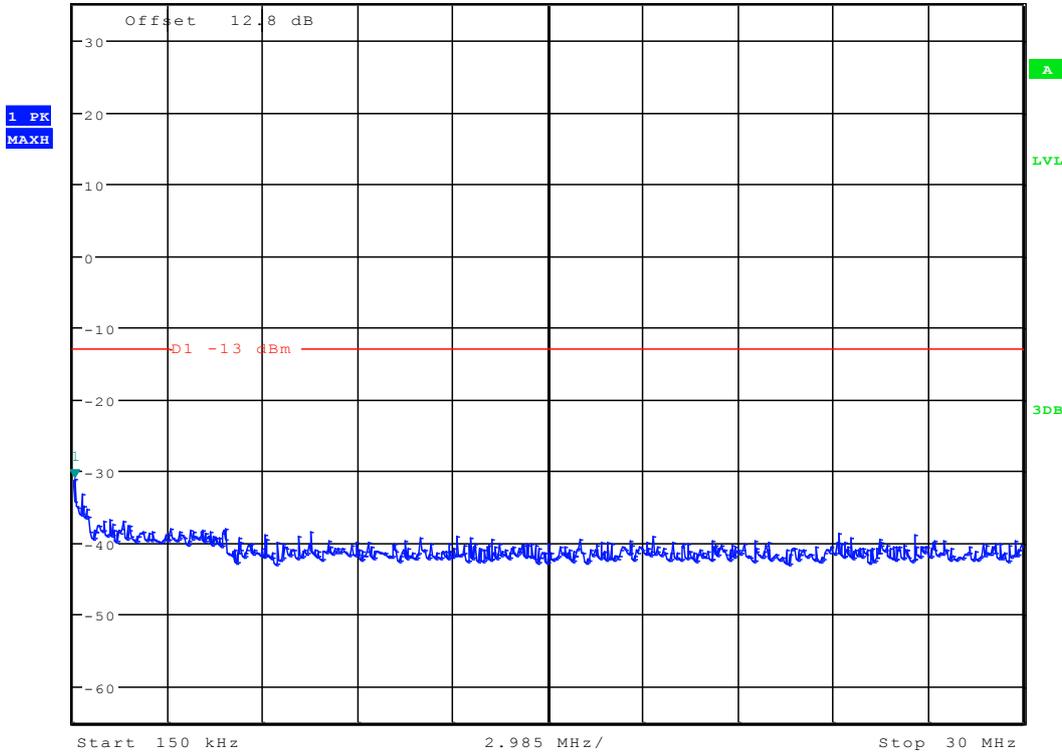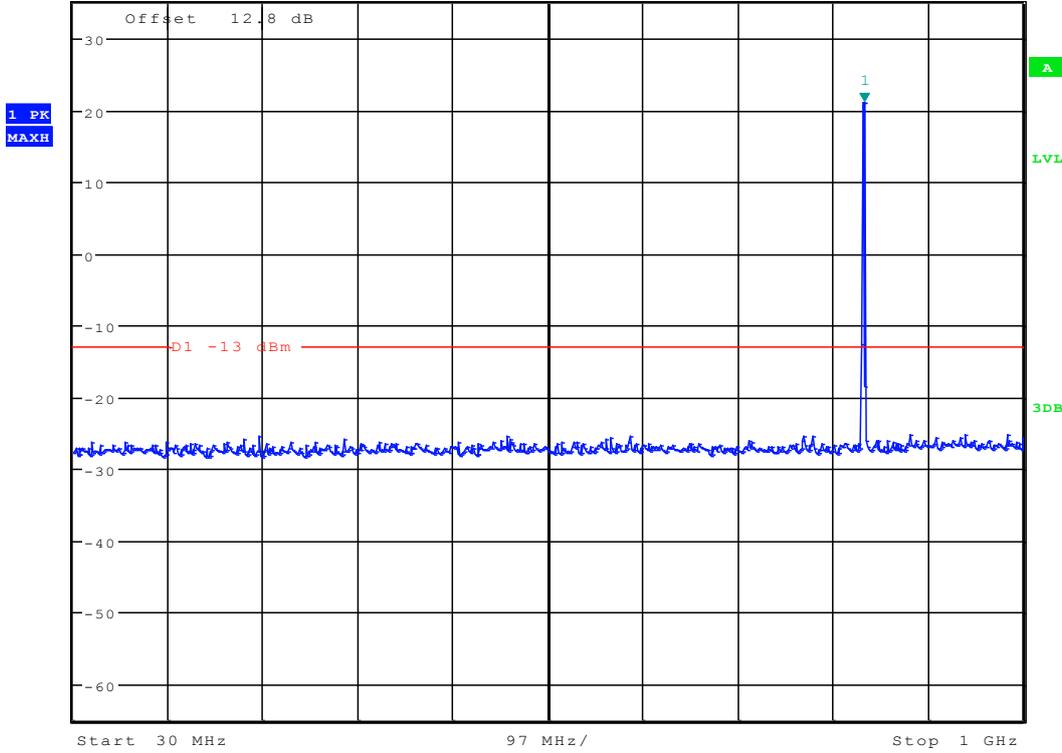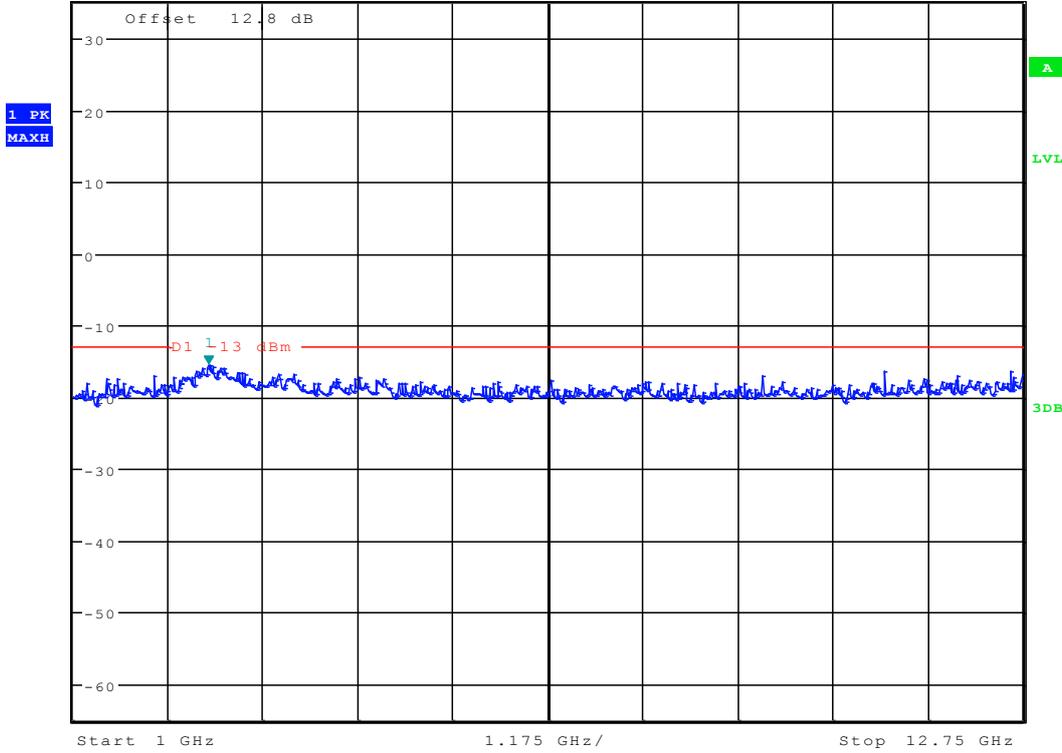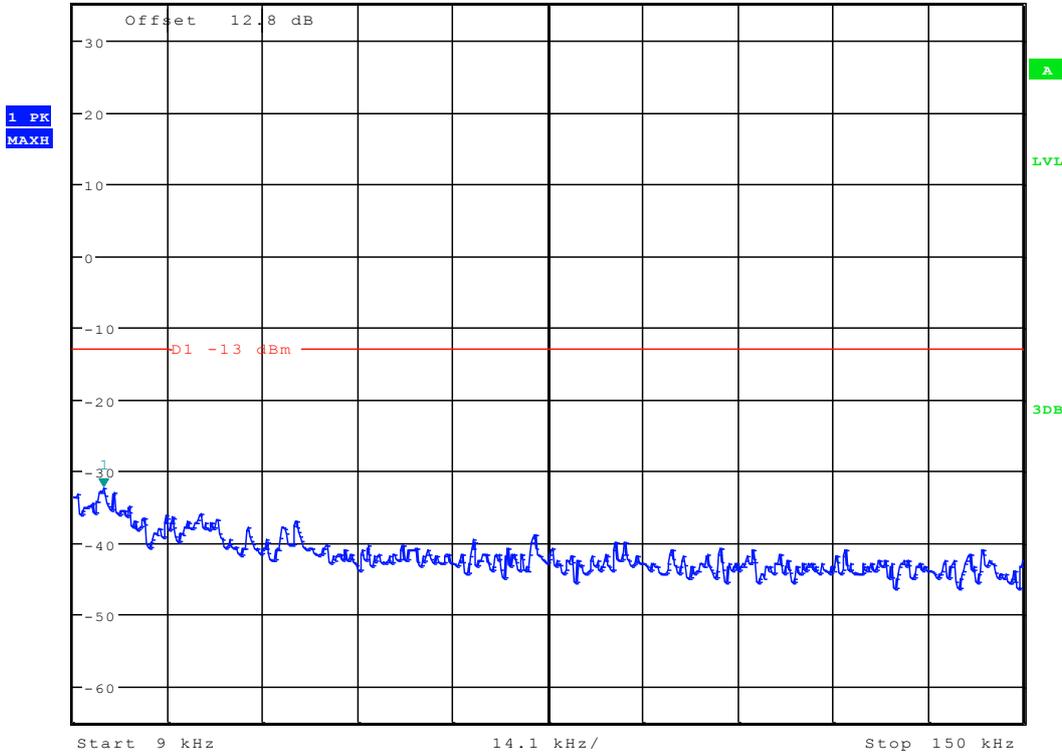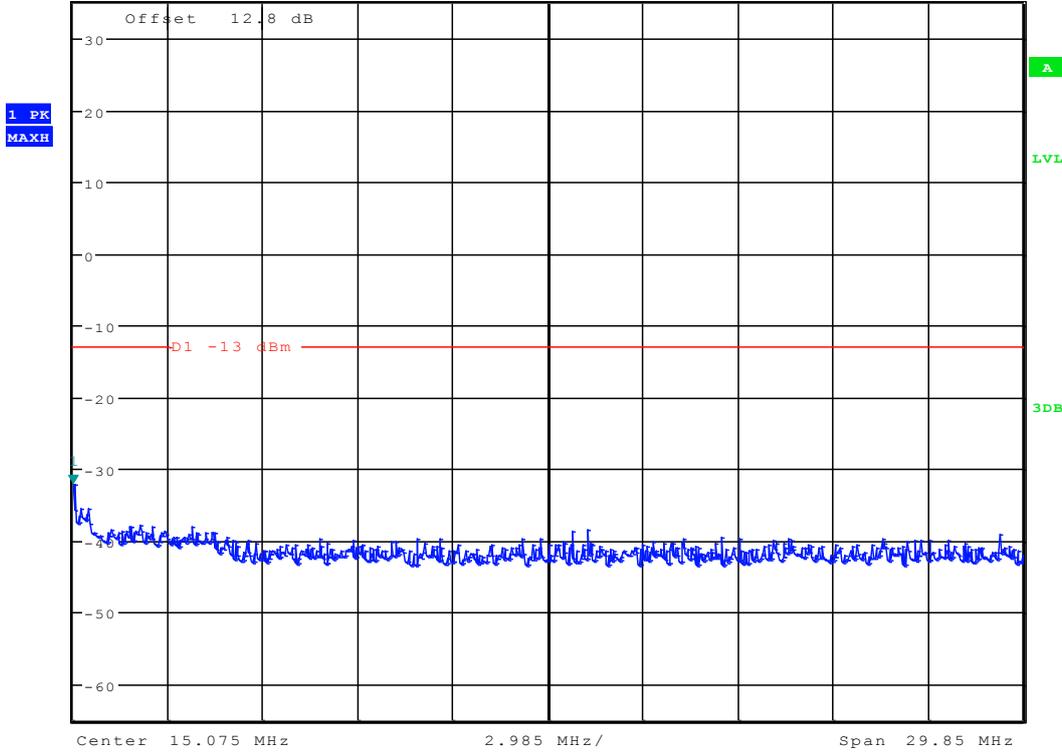
Date: 18.APR.2012 12:47:28

```
*RBW 100 kHz        Marker 1 [T1 ]
*VBW 300 kHz              25.01 dBm
Ref  35 dBm          Att  50 dB    SWT 100 ms    838.333333333 MHz
```
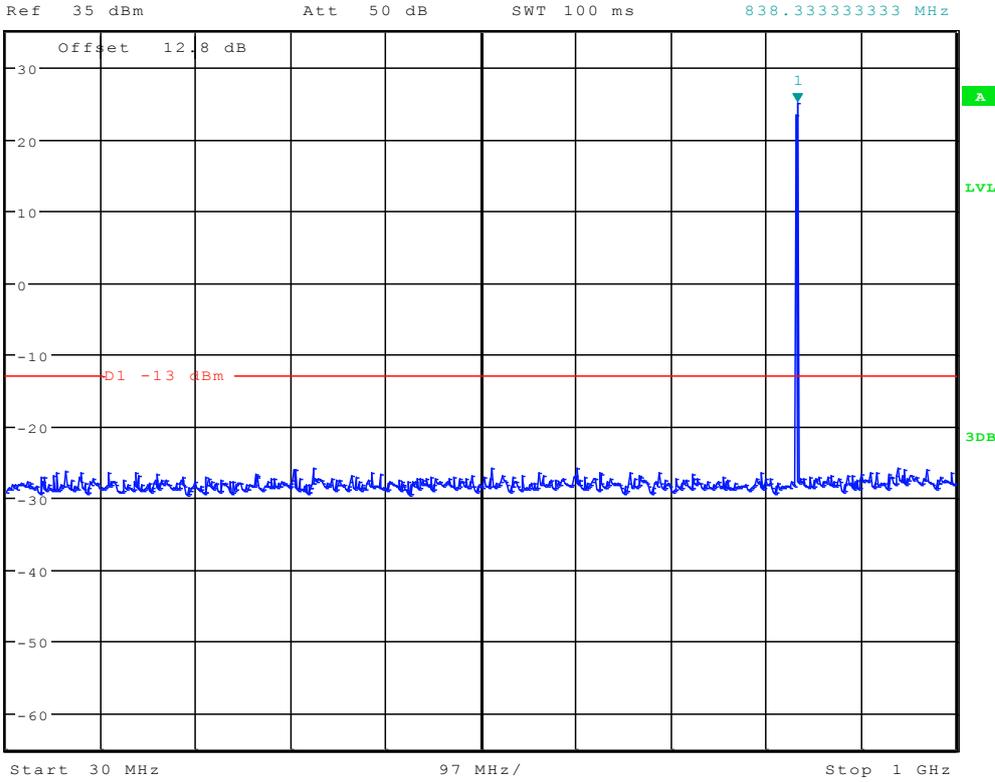
Date: 18.APR.2012 12:45:46

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                -14.18 dBm
         Ref   35 dBm      Att  50 dB     SWT  70 ms    2.619391026 GHz
```



```
Start 1 GHz              1.175 GHz/              Stop 12.75 GHz
```

Date: 18.APR.2012 12:39:47

3.1.1.2.3 QPSK/full RBs

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                -35.84 dBm
     Ref   35 dBm         Att  50 dB   SWT 145 ms      10.129807692 kHz

          Offset   12.8 dB
       -30                                                                        A

1 PK  -20                                                                        LVL
MAXH
       -10

        0

       -10 ─── D1 -13 dBm ──────────────────────────────────────────────

       -20                                                                        3DB

       -30
          1
          ▼

       -50

       -60

     Start  9 kHz              14.1 kHz/                  Stop  150 kHz
```
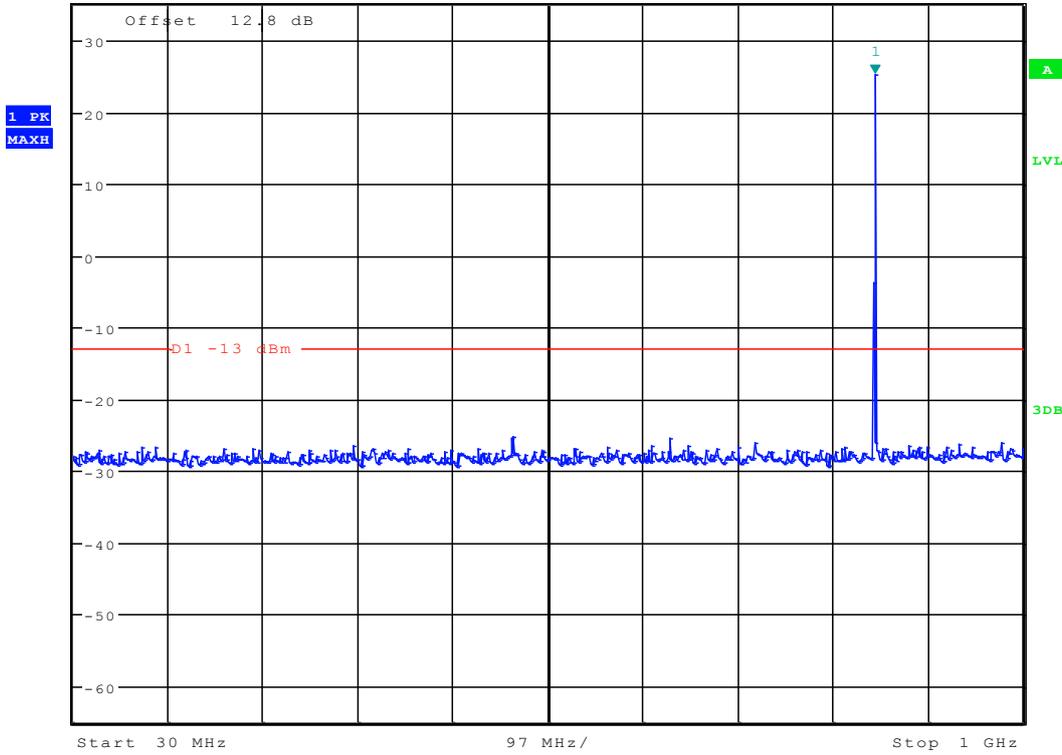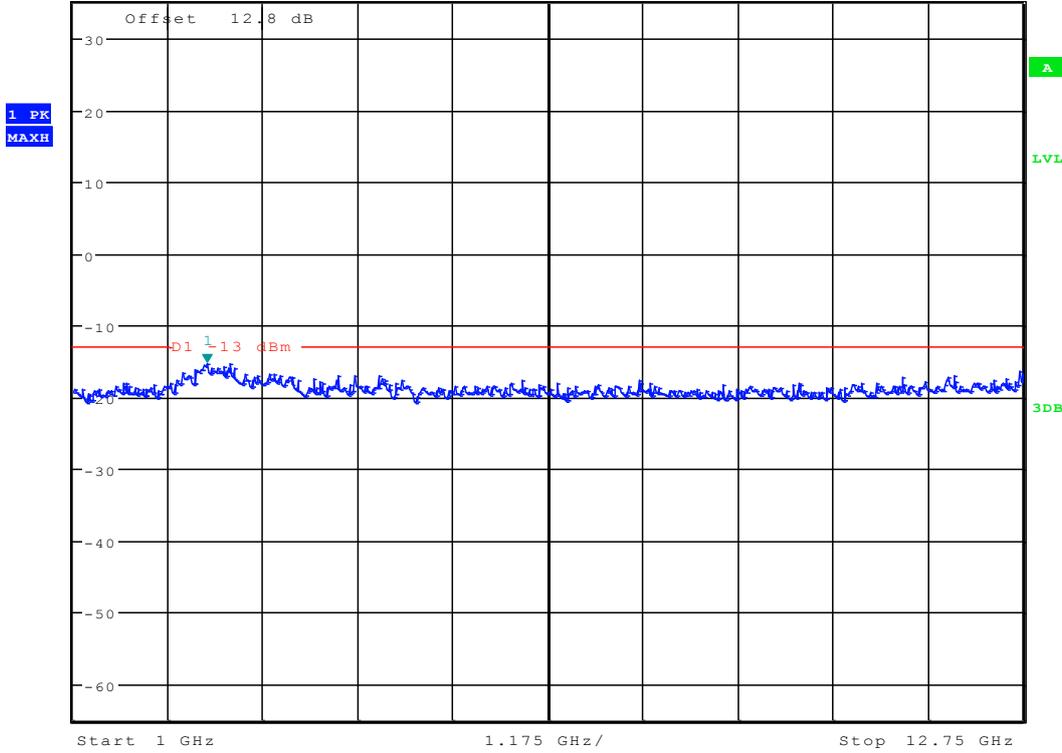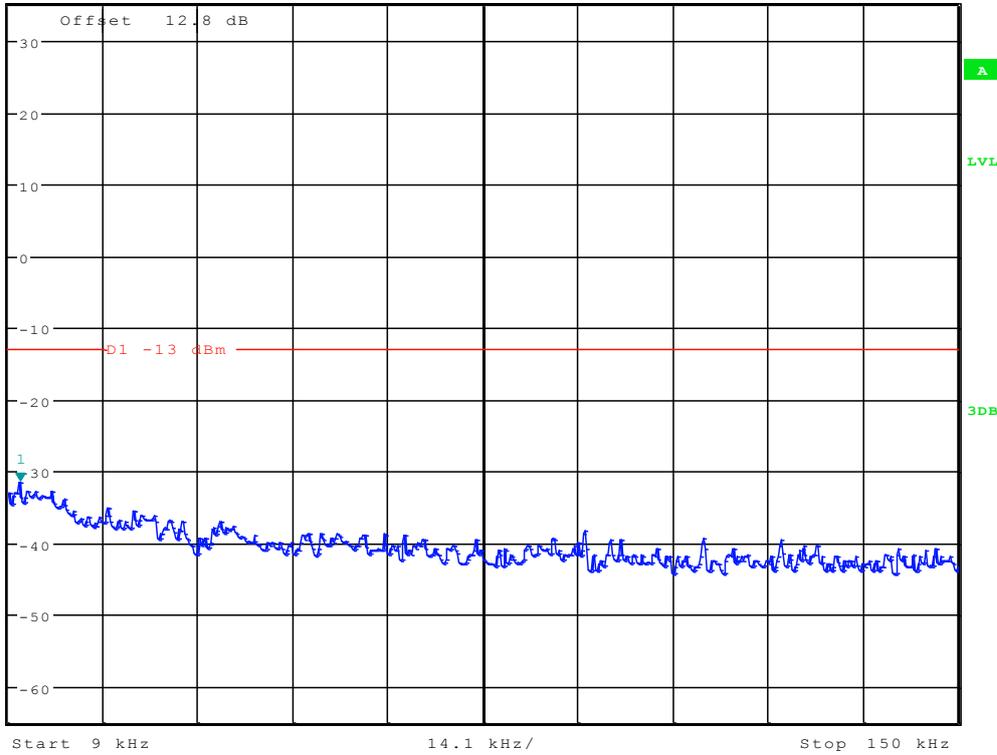
Date: 18.APR.2012 12:49:37

```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                      -31.37 dBm
        Ref   35 dBm        Att  50 dB    SWT  300 ms    150.000000000 kHz
```
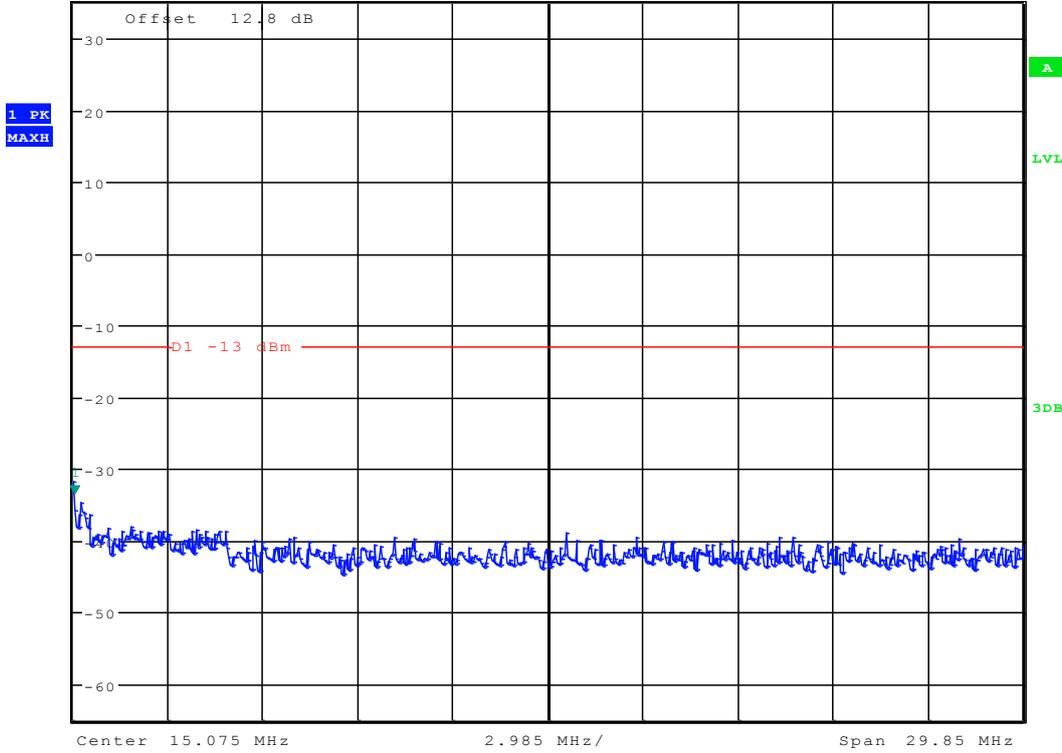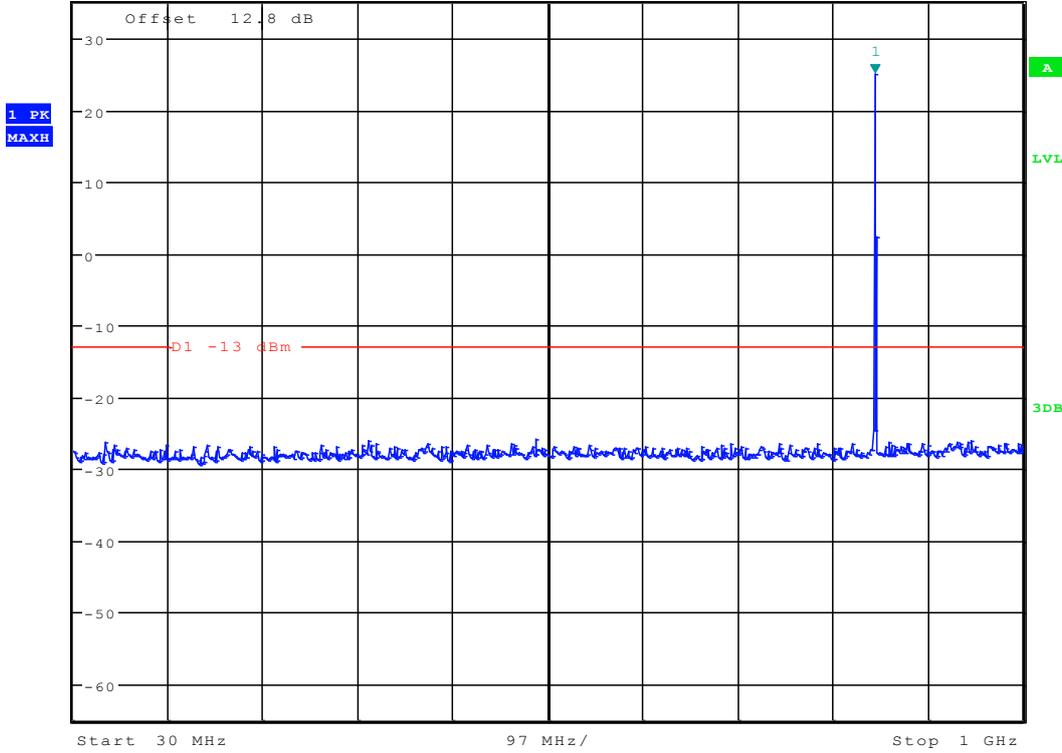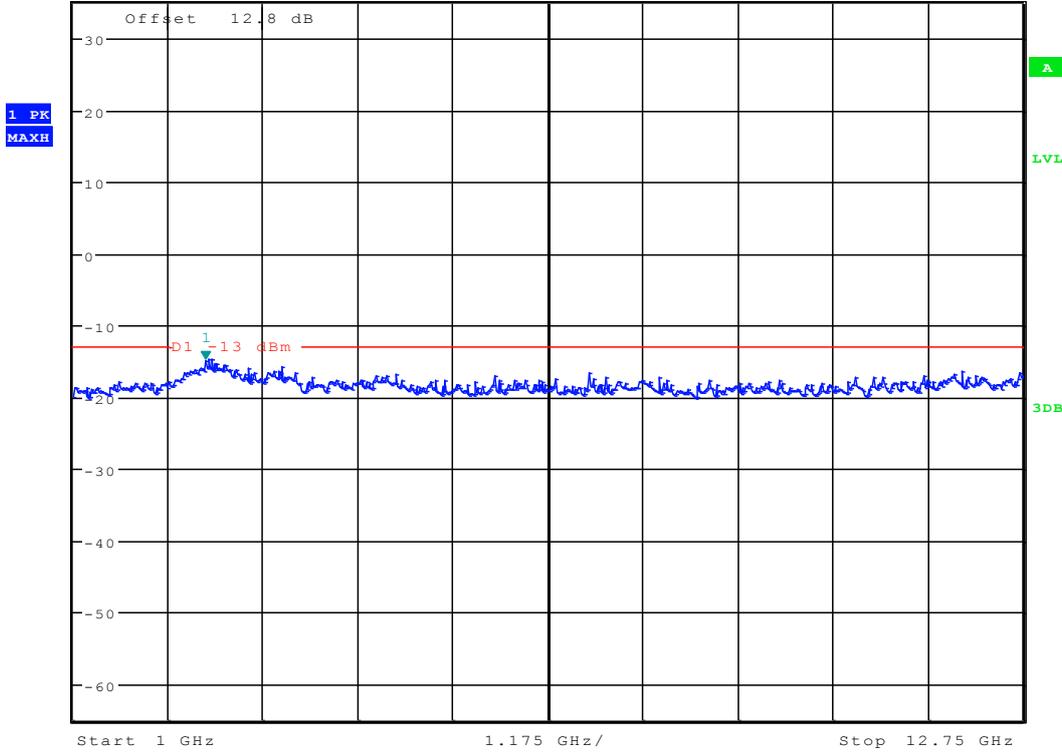
Date: 18.APR.2012 12:49:05

Date: 18.APR.2012 12:43:19

```
                                    * RBW  1 MHz          Marker 1 [T1 ]
                                    * VBW  3 MHz                  -15.51 dBm
    Ref   35 dBm        Att  50 dB    SWT 70 ms          2.675881410 GHz

    Offset   12.8 dB
 -30                                                                    A

 1 PK
 MAXH  20                                                               LVL

  10

   0

 -10       D1 -13 dBm
                                                                        3DB

 -30

 -40

 -50

 -60

 Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```
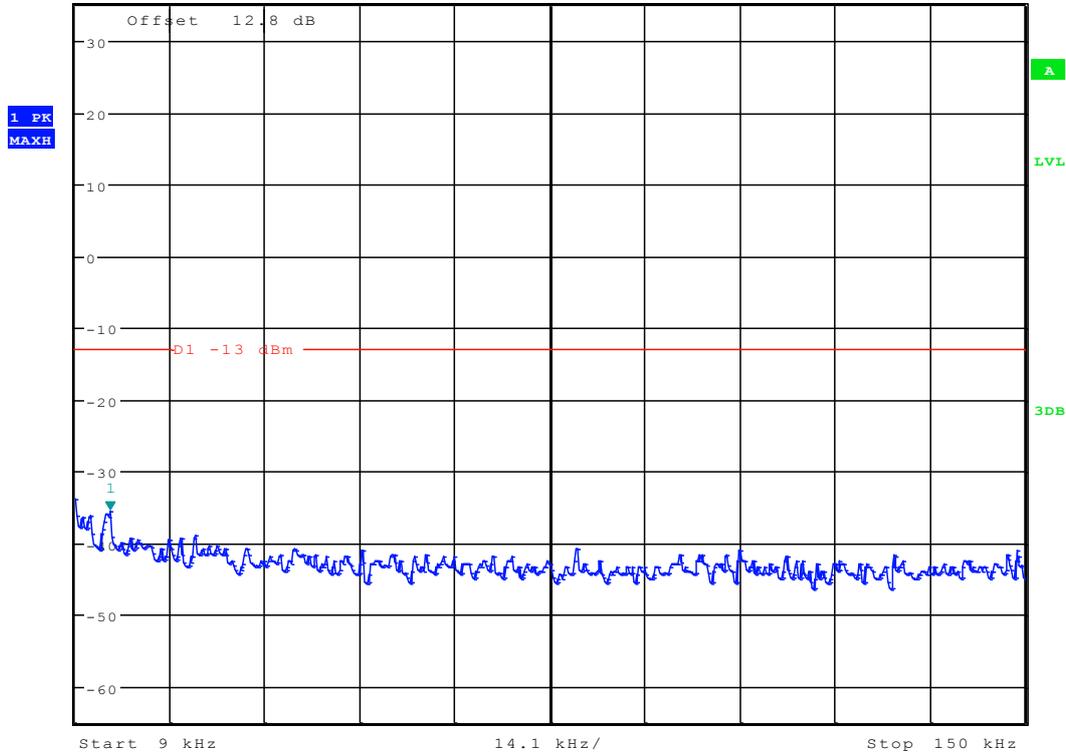
Date: 18.APR.2012 12:40:28

3.1.1.3 Channel = T

3.1.1.3.1 QPSK/1RBs /RB #0


```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                -32.44 dBm
      Ref   35 dBm      Att  50 dB    SWT  145 ms        13.519230769 kHz

          Offset   12.8 dB

        -30
                                                                        A

1 PK    -20
MAXH
                                                                       LVL
        -10

        -0

        --10
            D1 -13 dBm

        --20
                                                                       3DB

        --30
          1

        --40

        --50

        --60

      Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
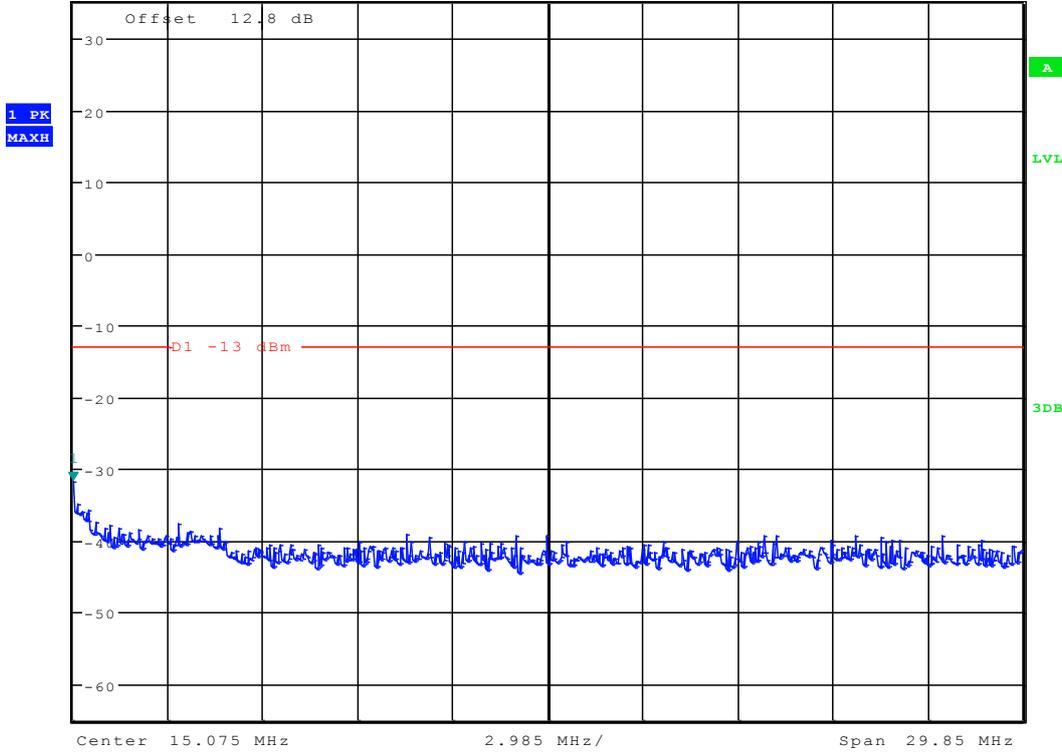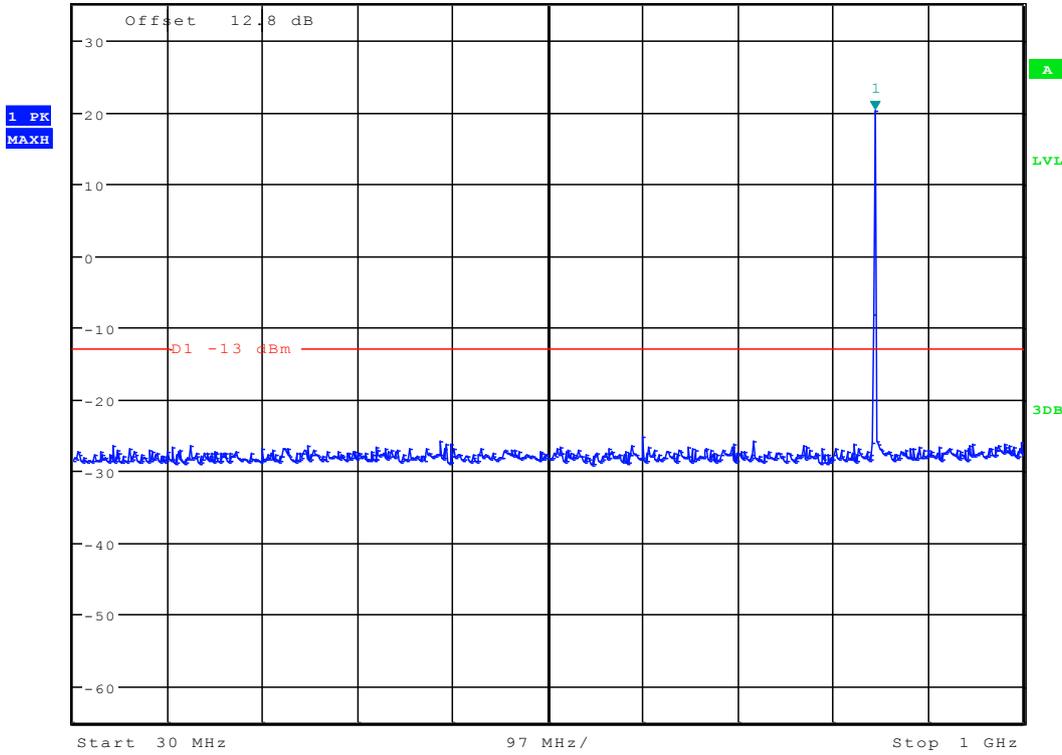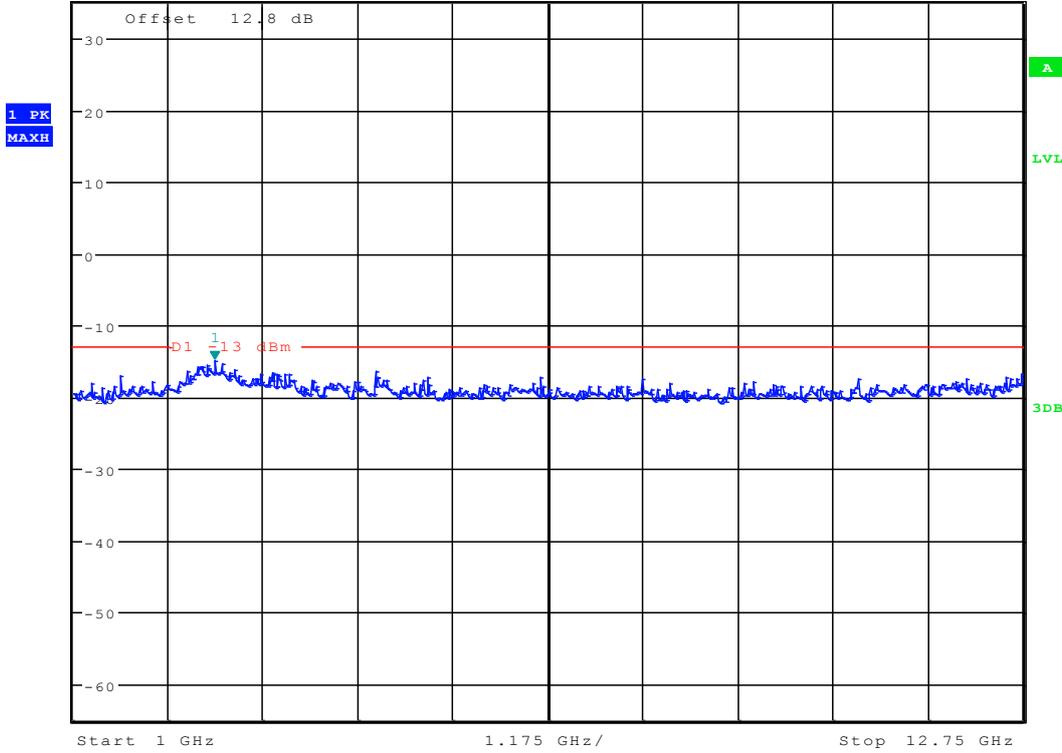
Date: 18.APR.2012 12:52:34

Date: 18.APR.2012 13:03:34

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Date: 20.APR.2012 10:26:12

Report No:
SYBH(Z-RF)006112011-2001

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```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                -15.27 dBm
        Ref   35 dBm        Att  50 dB    SWT  70 ms    2.657051282 GHz
```
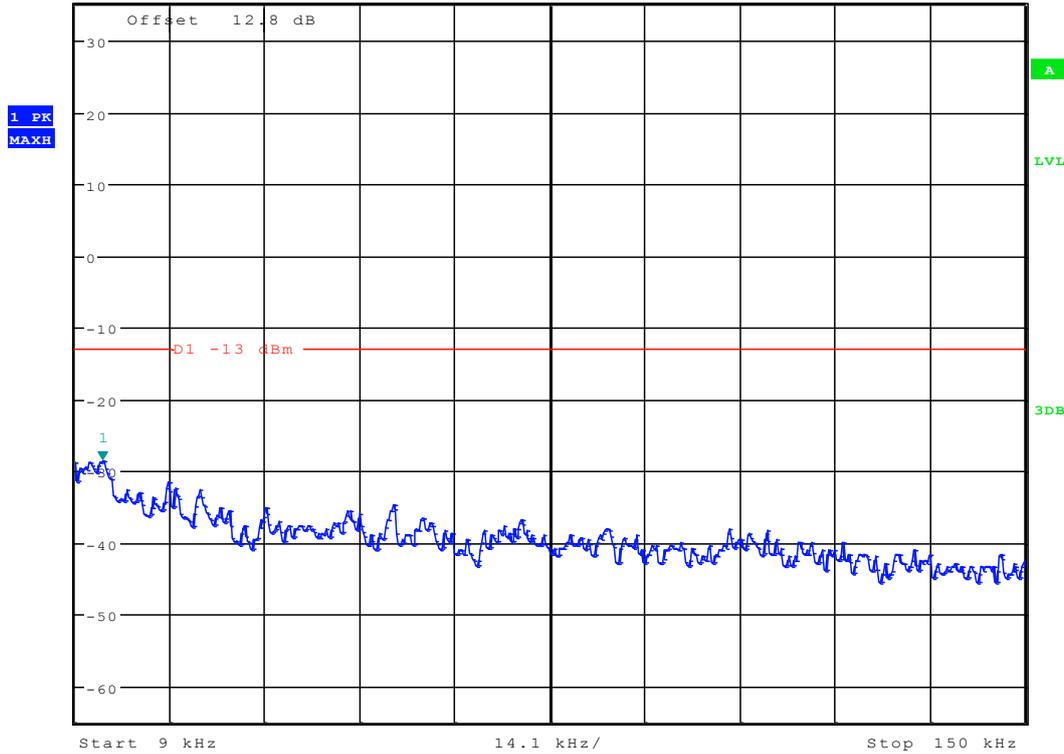


```
Start  1 GHz          1.175 GHz/          Stop  12.75 GHz
```

Date: 18.APR.2012 13:06:59

3.1.1.3.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz      Marker 1 [T1 ]
                                    * VBW  10 kHz              -31.42 dBm
     Ref   35 dBm        Att  50 dB   SWT  145 ms      10.807692308 kHz
```
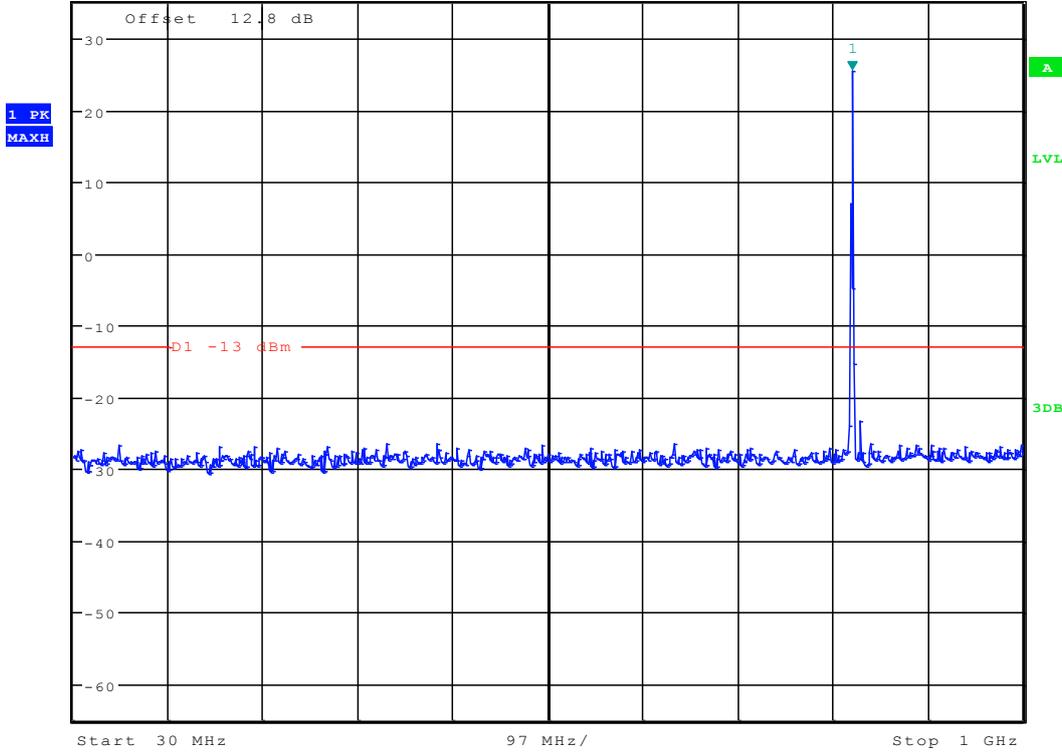
```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 18.APR.2012 12:51:45

Date: 18.APR.2012 13:03:50

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              24.94 dBm
        Ref   35 dBm        Att  50 dB    SWT  100 ms    849.214743590 MHz
```
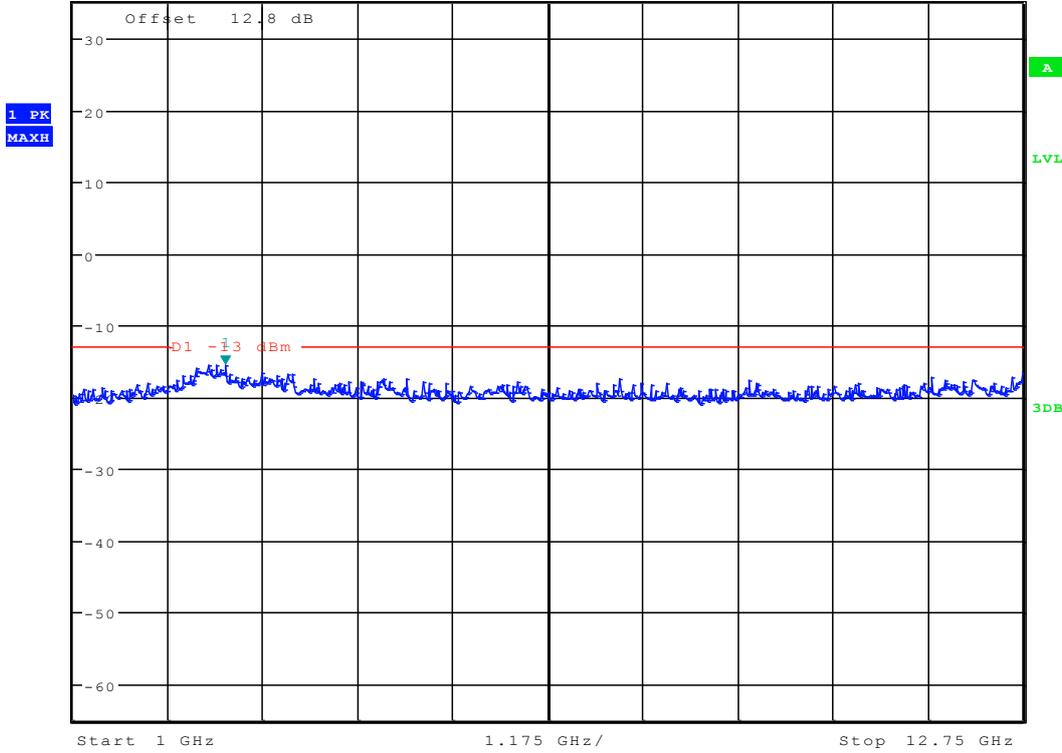


```
Start  30 MHz                    97 MHz/                    Stop  1 GHz
```

Date: 20.APR.2012 10:25:13

Date: 18.APR.2012 13:06:02

3.1.1.3.3 QPSK/full RBs

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz              -35.58 dBm
    Ref   35 dBm        Att  50 dB    SWT  145 ms       14.197115385 kHz
```
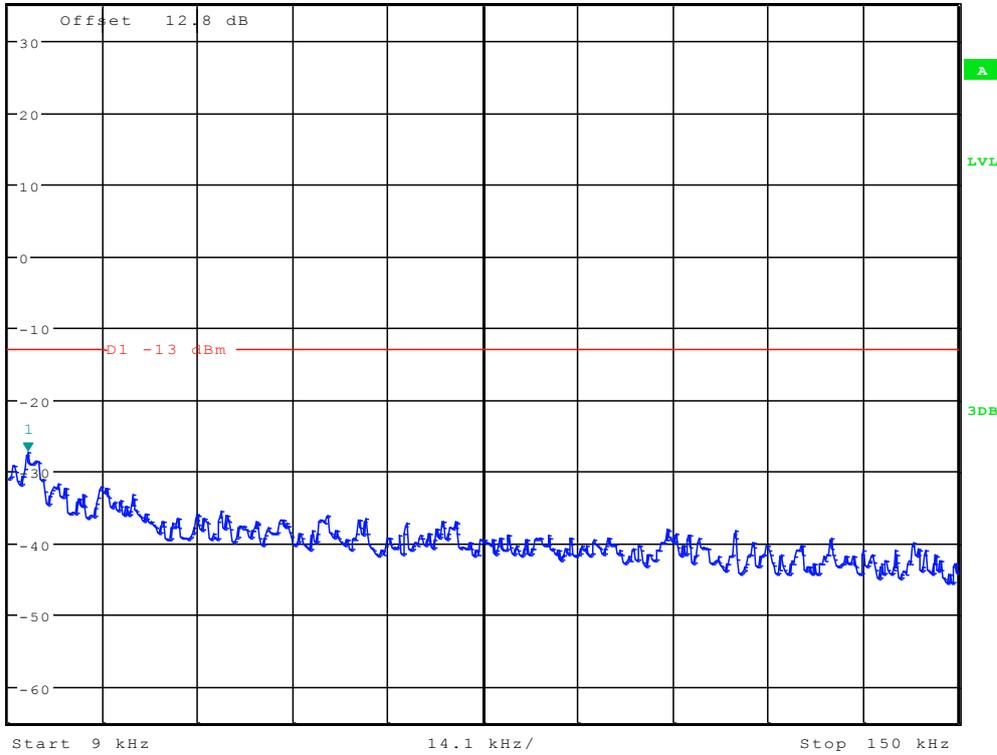


```
Start  9 kHz              14.1 kHz/                    Stop  150 kHz
```

Date: 18.APR.2012 12:52:11

Date: 18.APR.2012 13:04:09

Date: 20.APR.2012 10:25:45

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Date: 18.APR.2012 13:07:22

3.1.2 Channel Bandwidth =5 MHz

3.1.2.1 Channel = B

3.1.2.1.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 13:16:15

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```
                                  * RBW  10 kHz      Marker 1 [T1 ]
                                  * VBW  30 kHz                 -32.20 dBm
     Ref   35 dBm        Att  50 dB    SWT  300 ms    150.000000000 kHz
```



```
Start  150 kHz          2.985 MHz/              Stop  30 MHz
```
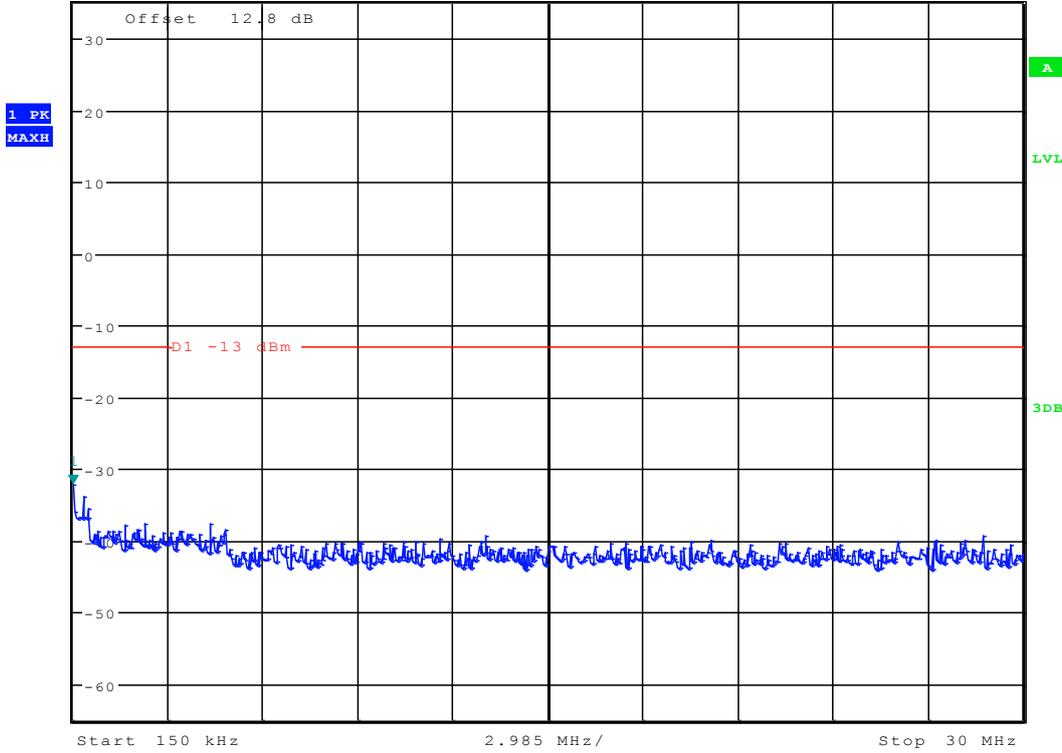
Date: 18.APR.2012 13:14:23

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz                25.48 dBm
        Ref  35 dBm      Att  50 dB   SWT  100 ms     825.897435897 MHz

        Offset  12.8 dB
   30                                                    1
                                                         ▽                    A

1 PK
MAXH
   20
                                                                              LVL
   10

    0

  -10     D1 -13 dBm                                                          3DB

  -20

  -30

  -40

  -50

  -60

   Start  30 MHz              97 MHz/              Stop  1 GHz
```
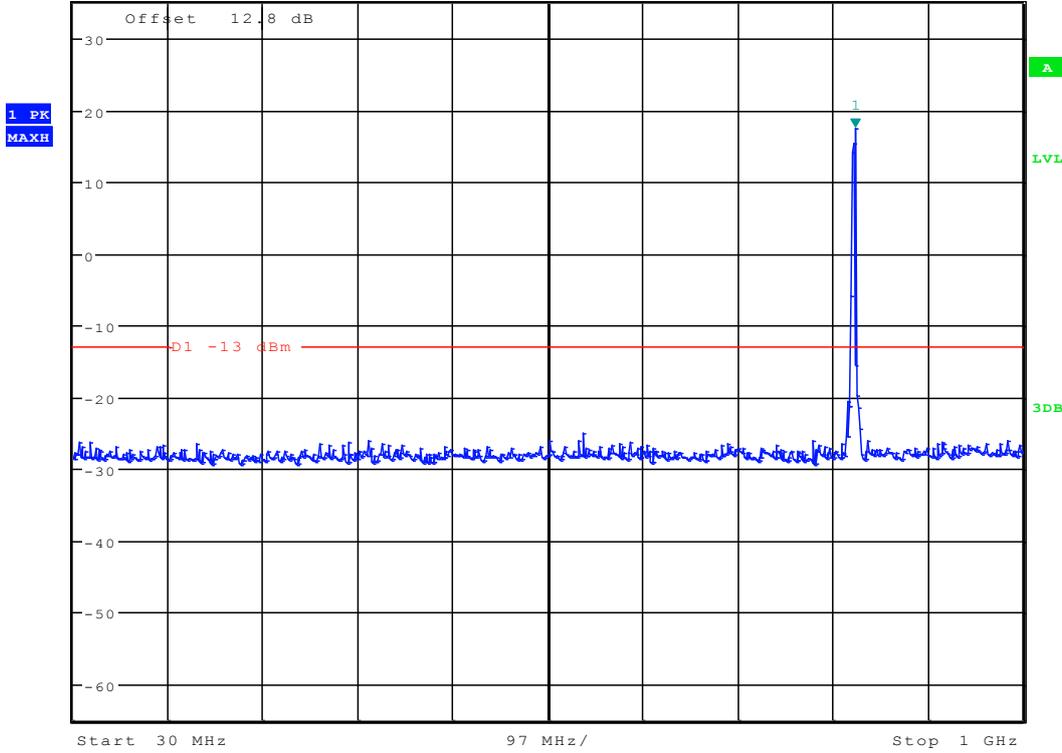
Date: 18.APR.2012 13:13:17

TESTING

* RBW 1 MHz   Marker 1 [T1]
* VBW 3 MHz   -15.49 dBm
Ref 35 dBm   Att 50 dB   SWT 70 ms   2.883012821 GHz

Offset 12.8 dB

1 PK
MAXH

A

LVL

3DB

D1 -13 dBm

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

Date: 18.APR.2012 13:11:51

3.1.2.1.2 QPSK/1RBs /RB #max

Date: 18.APR.2012 13:16:40

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```
                              * RBW  10 kHz        Marker 1 [T1 ]
                              * VBW  30 kHz                  -33.52 dBm
   Ref   35 dBm         Att  50 dB    SWT 300 ms     197.836538462 kHz
```
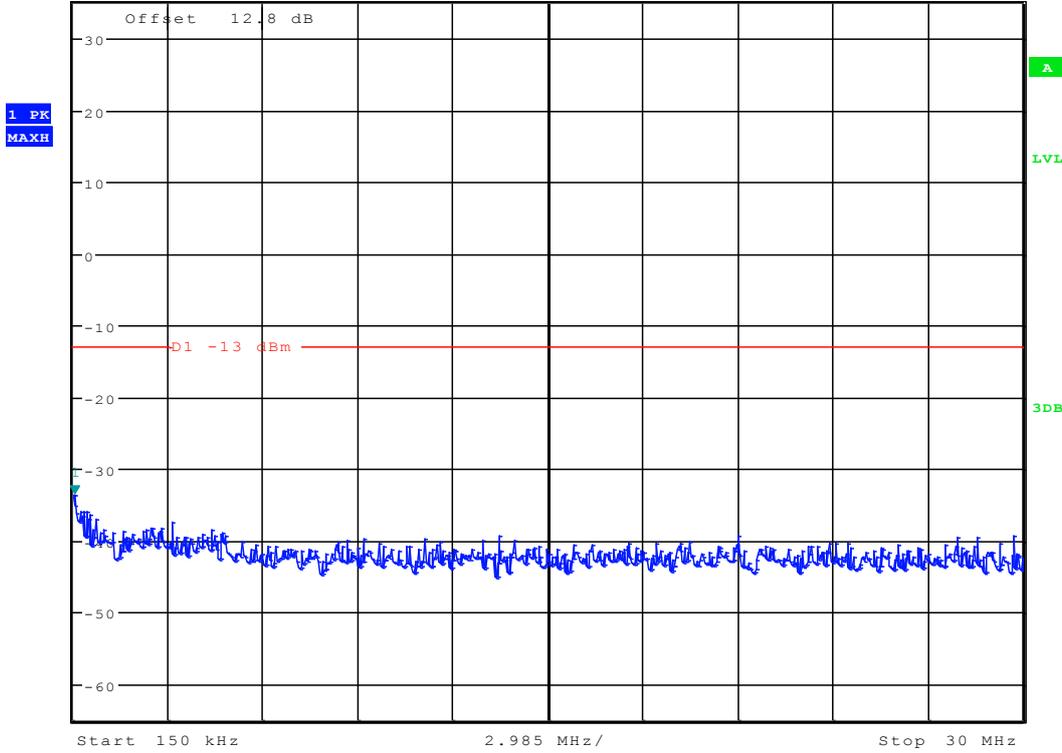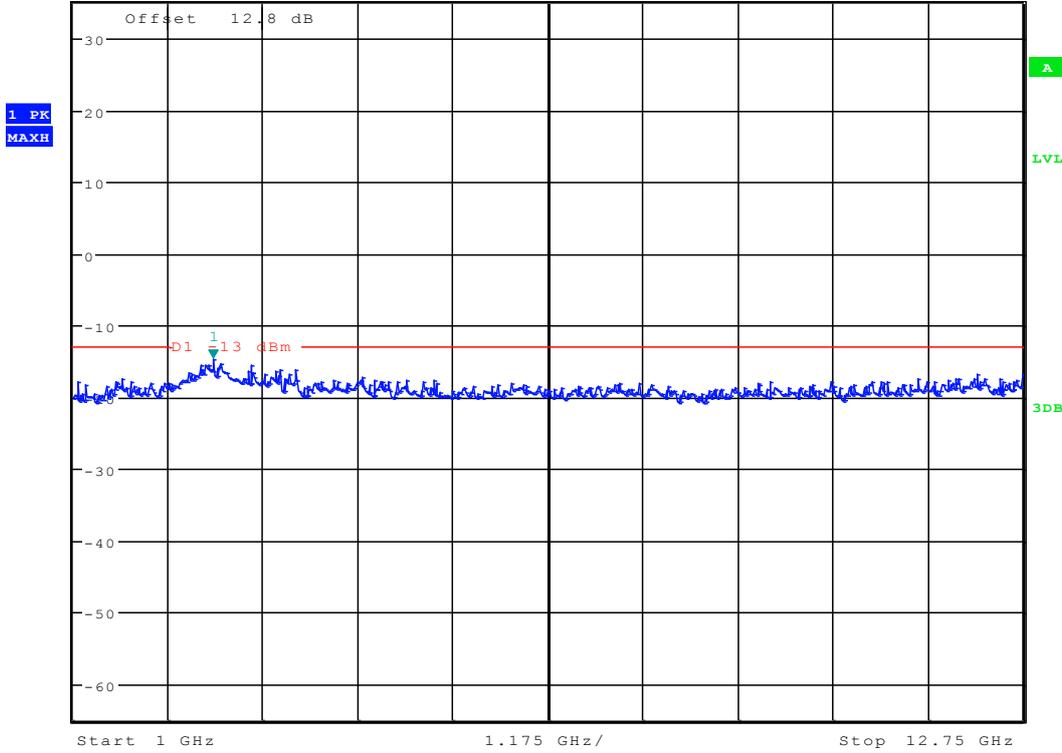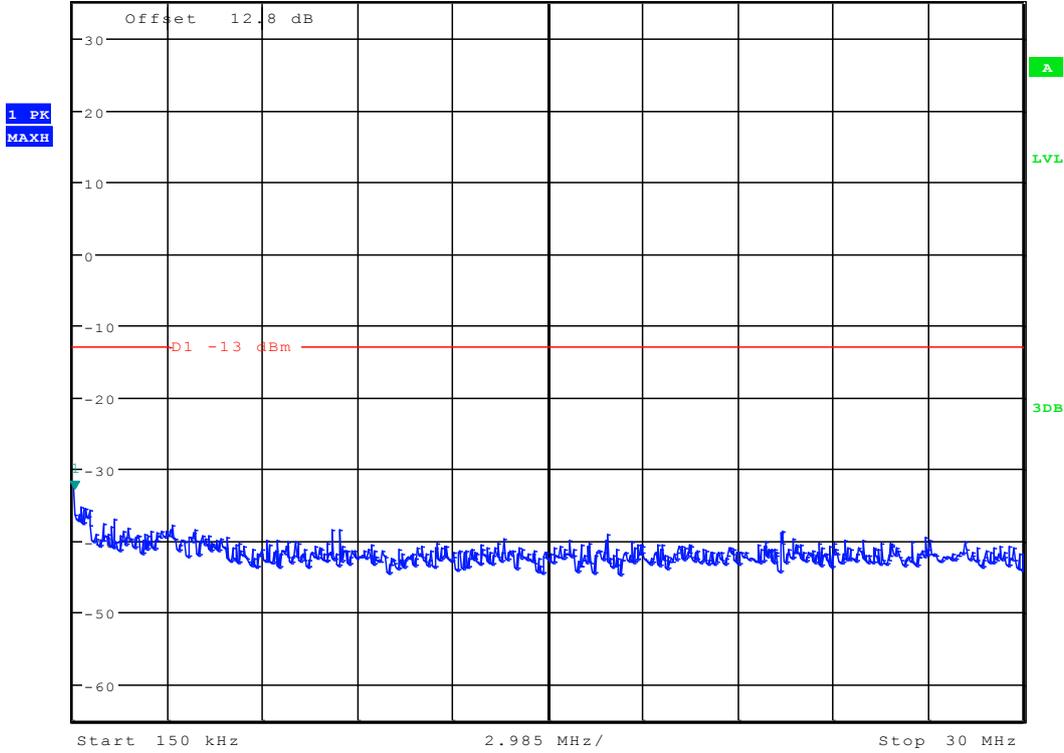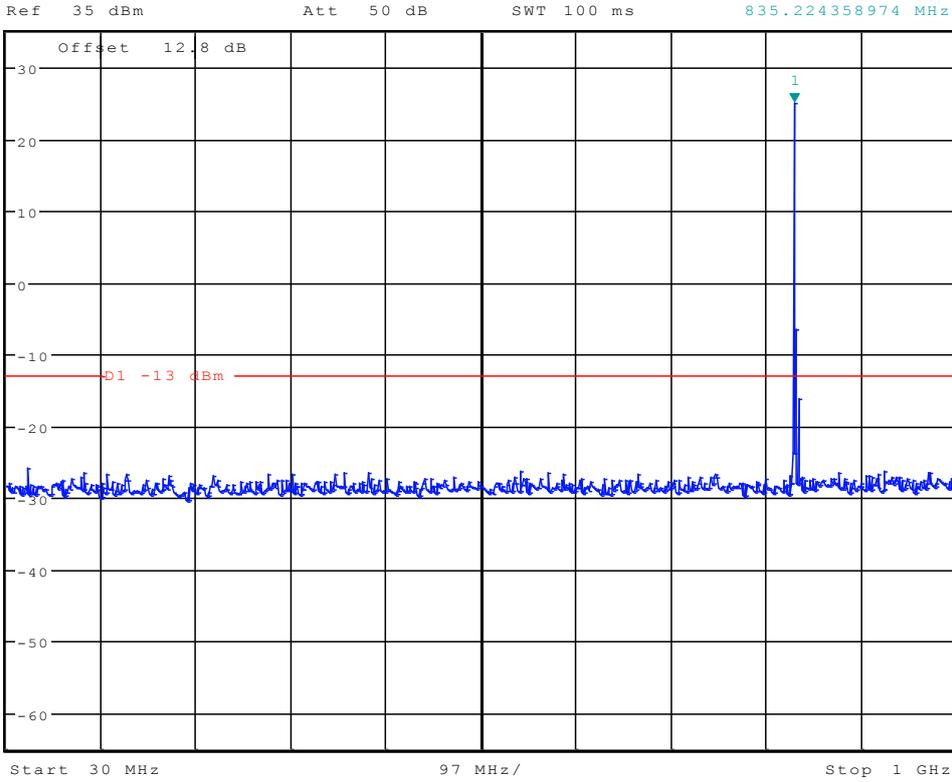
Date: 18.APR.2012 13:14:03

```
                                    * RBW  100 kHz     Marker 1 [T1 ]
                                    * VBW  300 kHz                24.89 dBm
        Ref   35 dBm      Att  50 dB    SWT  100 ms     829.006410256 MHz
```
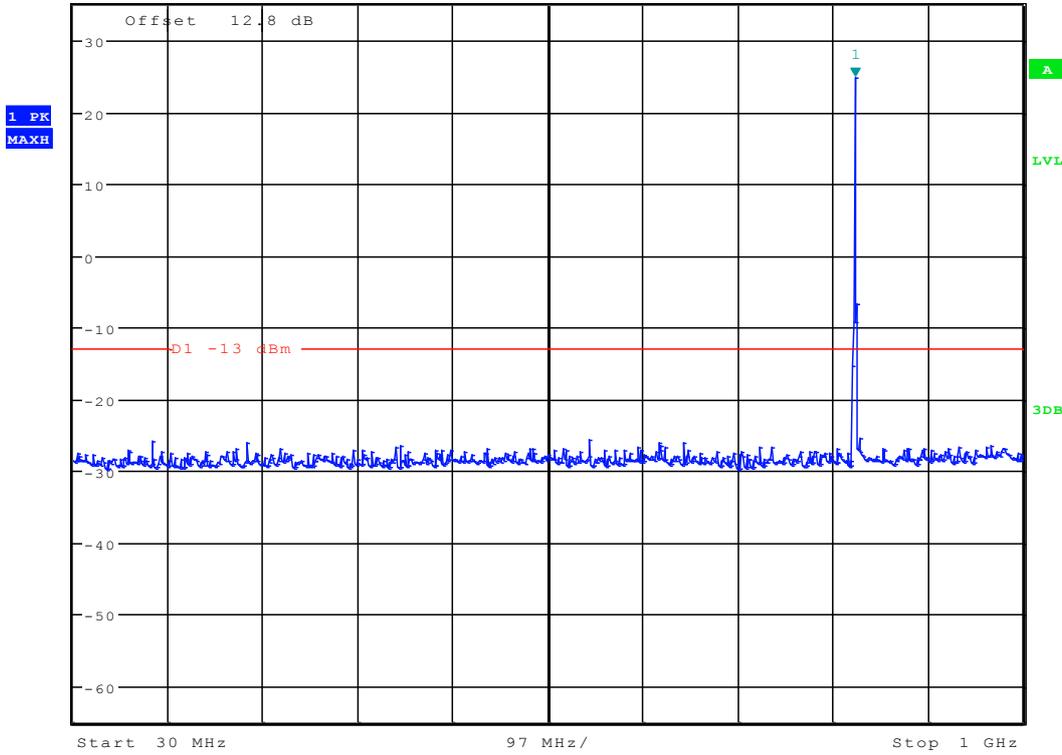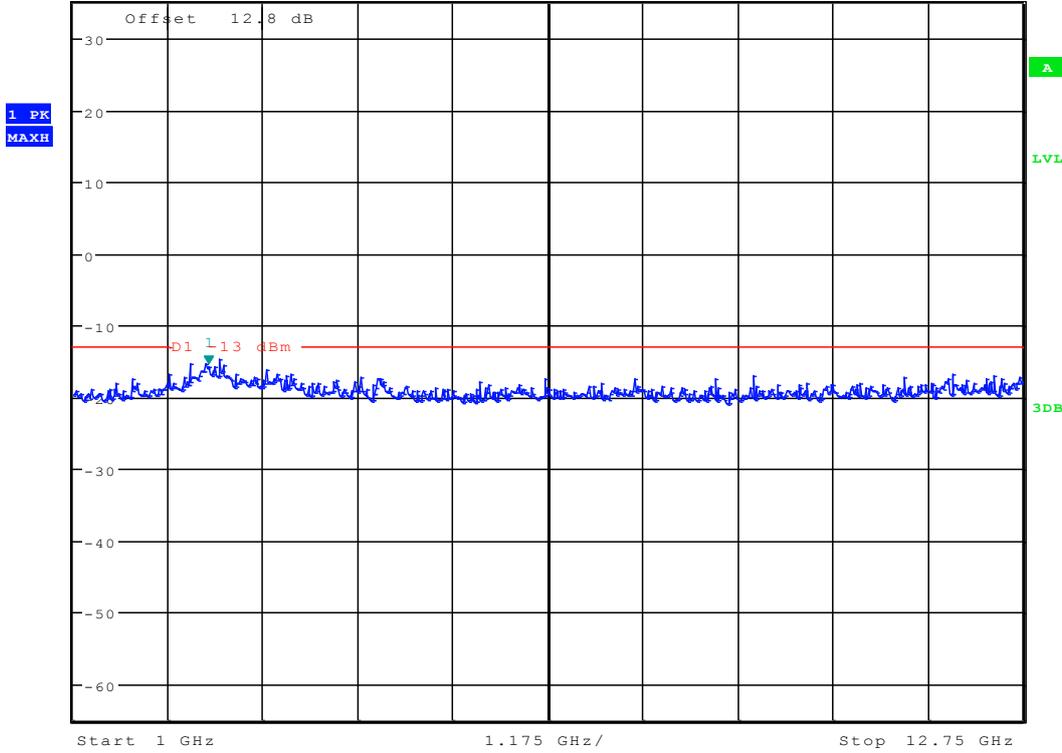
Date: 18.APR.2012 13:13:32

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz               -14.96 dBm
       Ref   35 dBm       Att  50 dB    SWT  70 ms     2.713541667 GHz
```
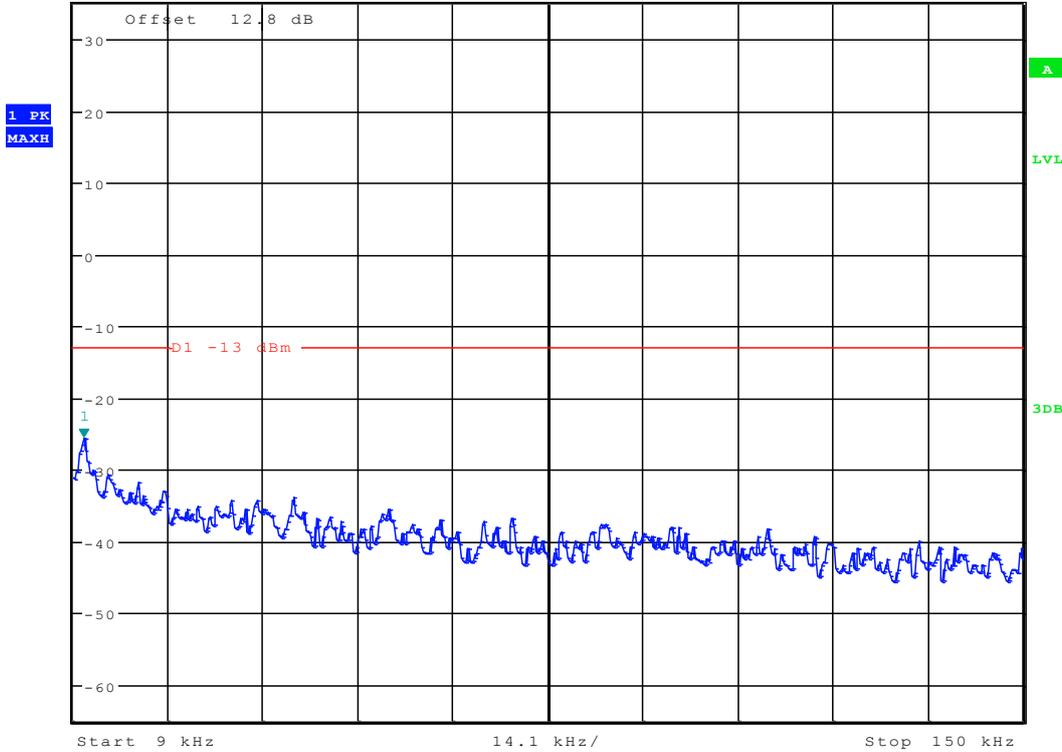


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```
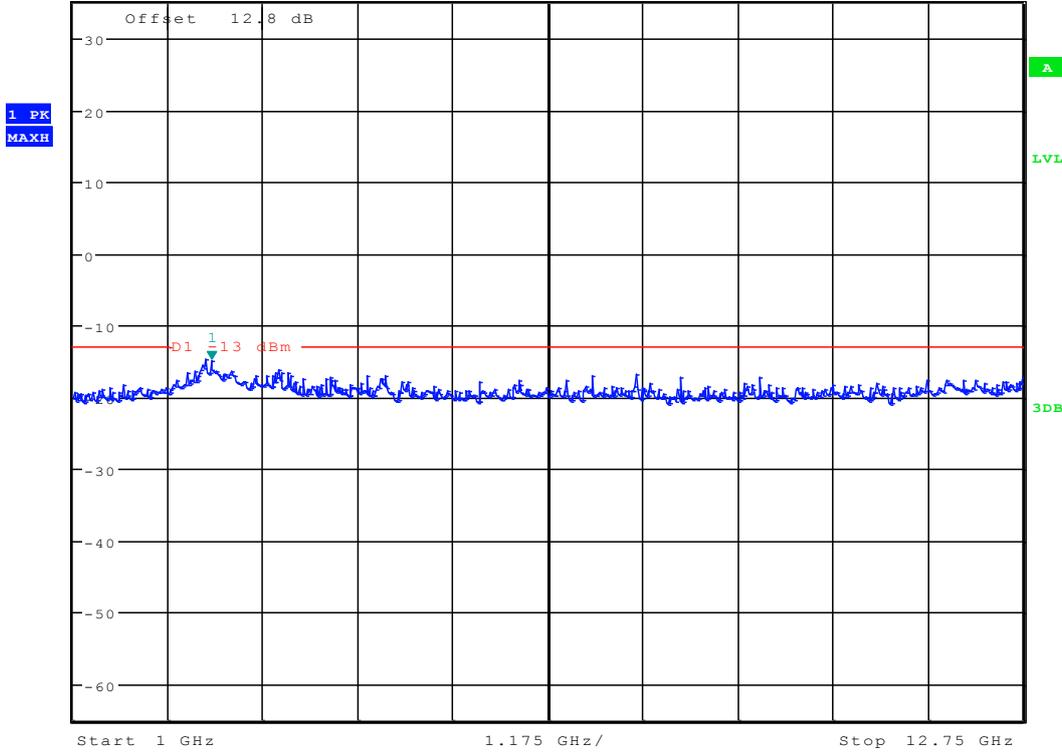
Date: 18.APR.2012 13:11:27

3.1.2.1.3 QPSK/full RBs


```
* RBW  1 kHz              Marker 1 [T1 ]
* VBW  10 kHz                      -33.19 dBm
Ref  35 dBm        Att  50 dB   SWT  145 ms        9.225961538 kHz

        Offset  12.8 dB
```
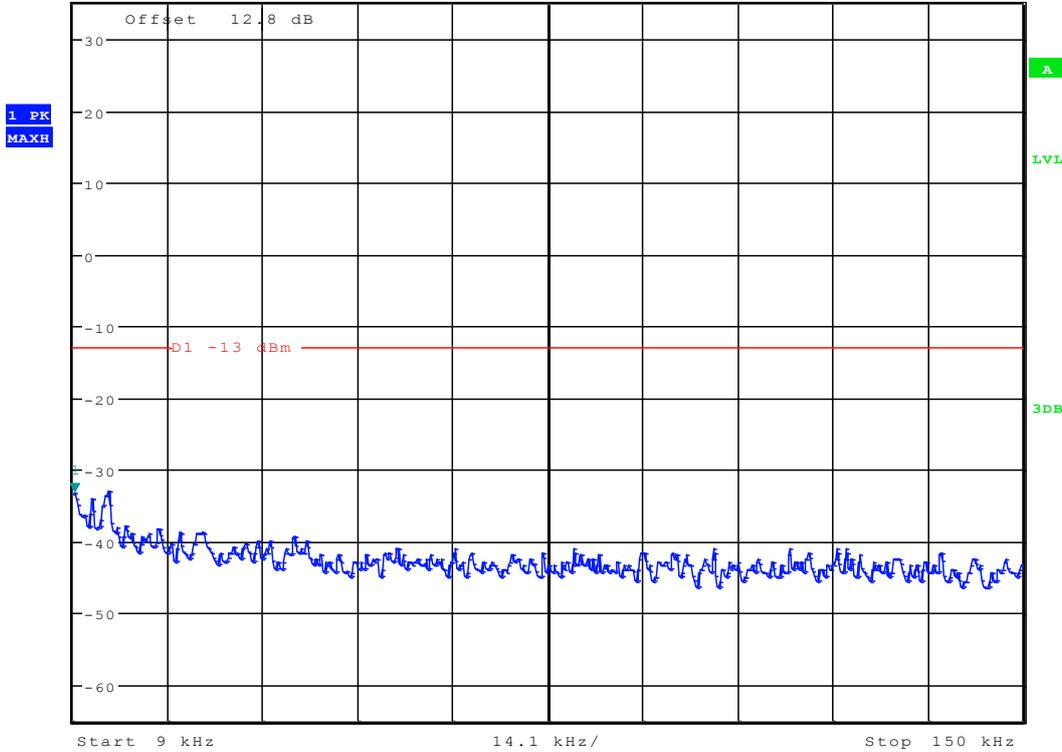
Date: 18.APR.2012 13:15:51

```
                              * RBW  10 kHz      Marker 1 [T1 ]
                              * VBW  30 kHz               -32.68 dBm
  Ref   35 dBm        Att  50 dB    SWT  300 ms   150.000000000 kHz

      Offset   12.8 dB                                          A
  -30

  -20                                                          LVL

  -10

   0

  -10   D1 -13 dBm

  -20                                                          3DB

  -30

  -40

  -50

  -60

  Start  150 kHz        2.985 MHz/        Stop  30 MHz
```

1 PK
MAXH
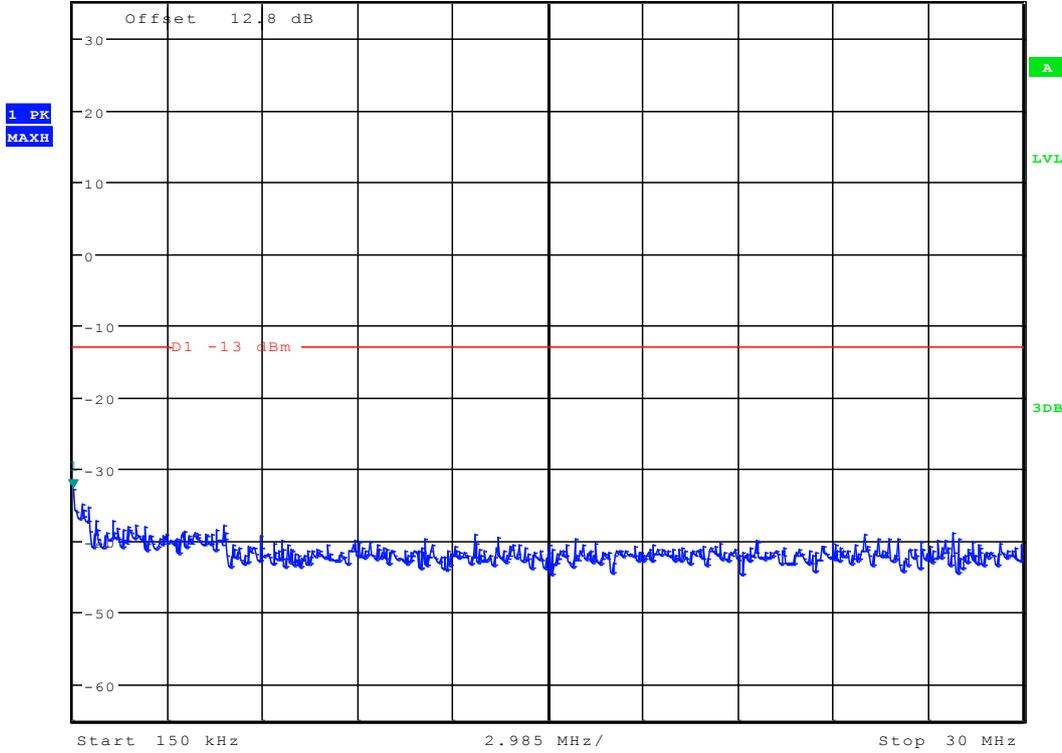
Date: 18.APR.2012 13:14:42

```
                          * RBW 100 kHz      Marker 1 [T1 ]
                          * VBW 300 kHz              17.49 dBm
   Ref  35 dBm    Att  50 dB    SWT 100 ms    829.006410256 MHz
```
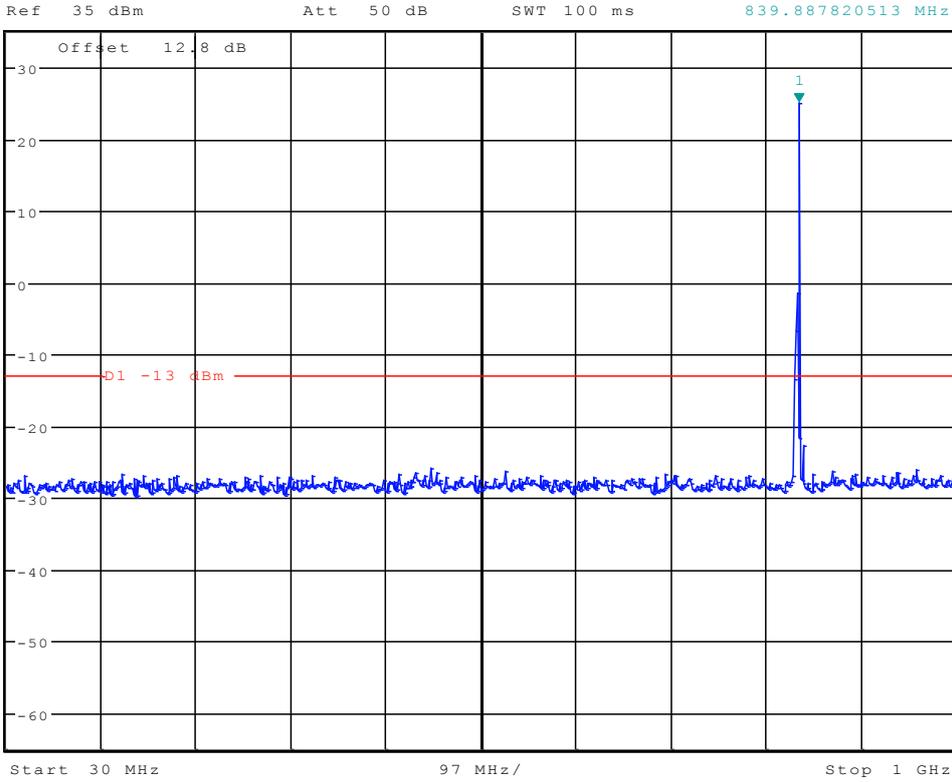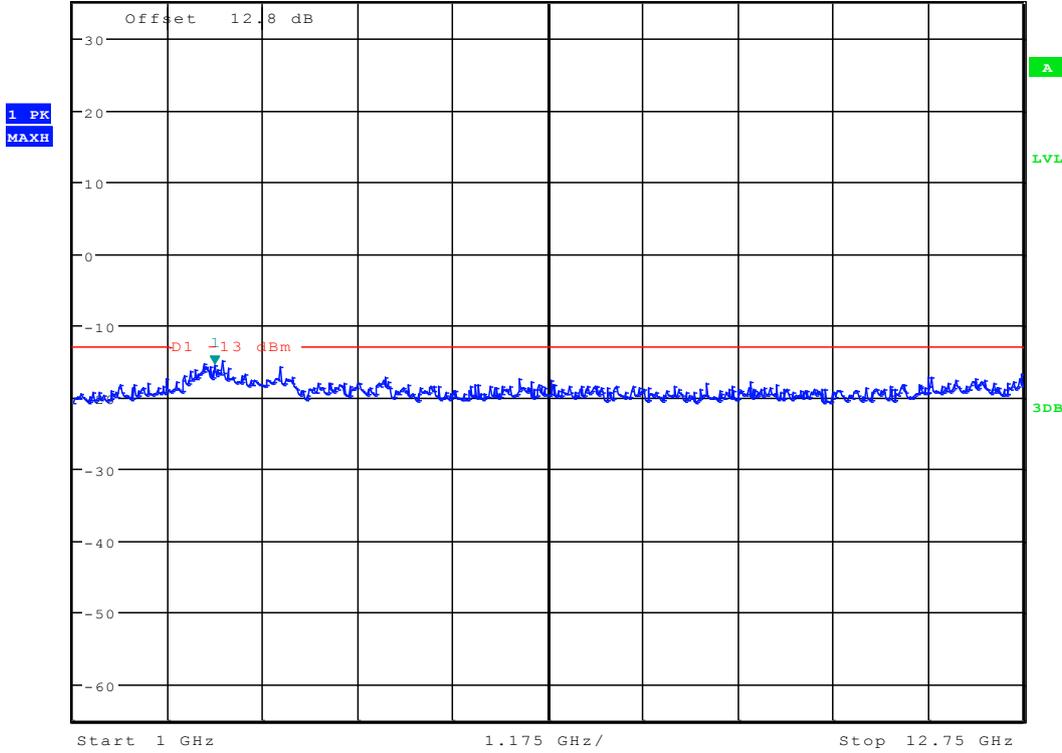


```
Date: 18.APR.2012  13:13:01
```

*RBW 1 MHz	Marker 1 [T1]	
*VBW 3 MHz	-14.68 dBm	
Ref 35 dBm	Att 50 dB	SWT 70 ms	2.732371795 GHz

```
         Offset  12.8 dB
  -30
                                                                    A
  -20
1 PK
MAXH
  -10                                                               LVL

   0

  -10
       D1  13 dBm
                                                                    3DB
  -30

  -40

  -50

  -60

Start 1 GHz              1.175 GHz/              Stop 12.75 GHz
```

Date: 18.APR.2012 13:12:14

3.1.2.2 Channel = M

3.1.2.2.1 QPSK/1RBs /RB #0
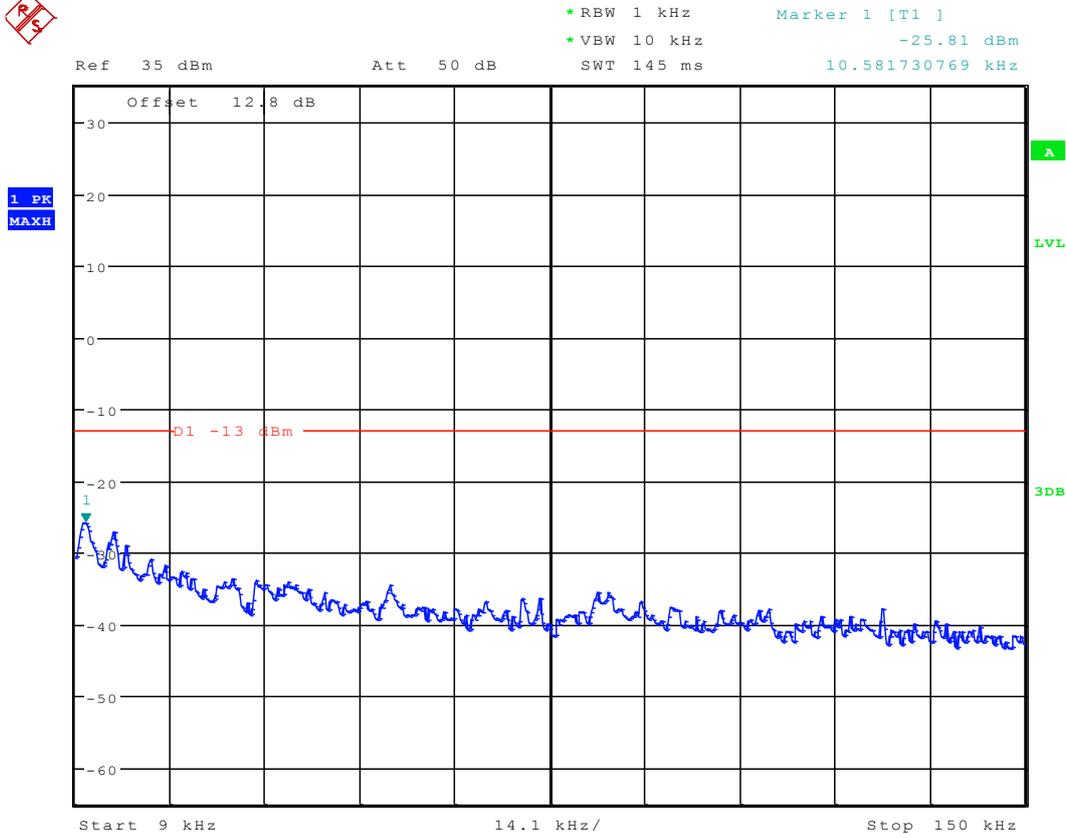
Date: 18.APR.2012 13:17:44

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Date: 18.APR.2012 13:19:44

```
                              * RBW 100 kHz    Marker 1 [T1 ]
                              * VBW 300 kHz              24.93 dBm
       Ref  35 dBm      Att  50 dB    SWT 100 ms    835.224358974 MHz

          Offset  12.8 dB
     -30
1 PK -20
MAXH
     -10

      0

    -10
          D1 -13 dBm

    -20                                                          3DB
    -30

    -40

    -50

    -60

   Start 30 MHz           97 MHz/              Stop 1 GHz
```
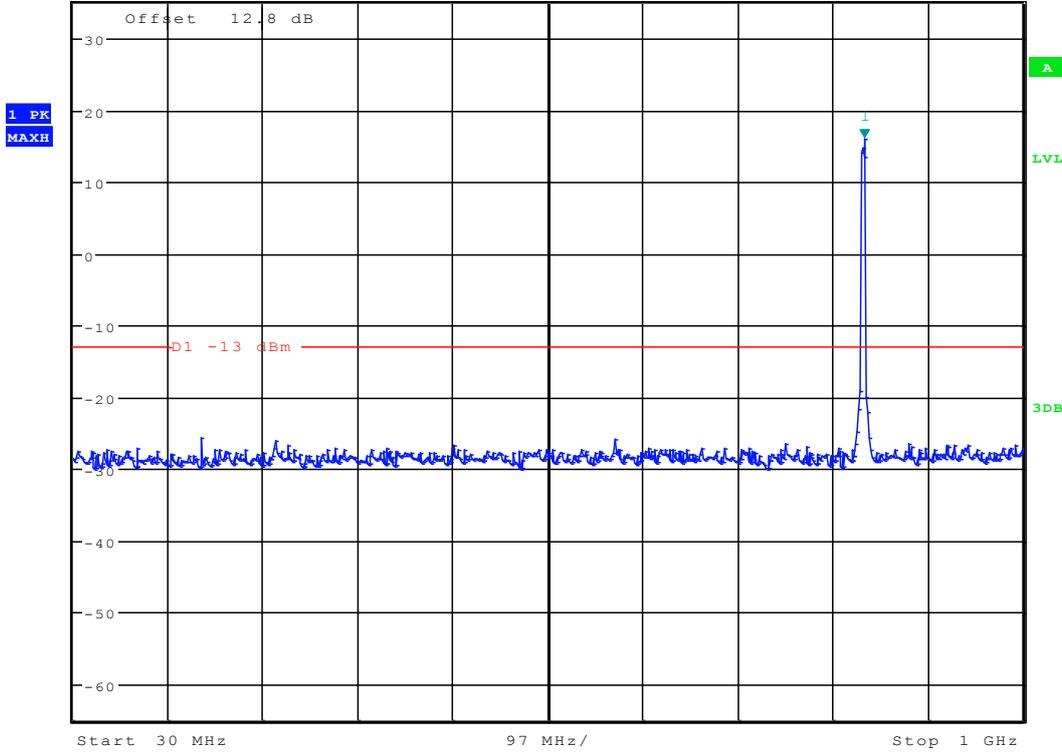
Date: 18.APR.2012 13:20:58

Date: 18.APR.2012 13:22:17

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3.1.2.2.2 QPSK/1RBs /RB #max


```
                                         * RBW  1 kHz        Marker 1 [T1 ]
                                         * VBW  10 kHz                -25.53 dBm
         Ref   35 dBm          Att  50 dB   SWT  145 ms       10.581730769 kHz
```
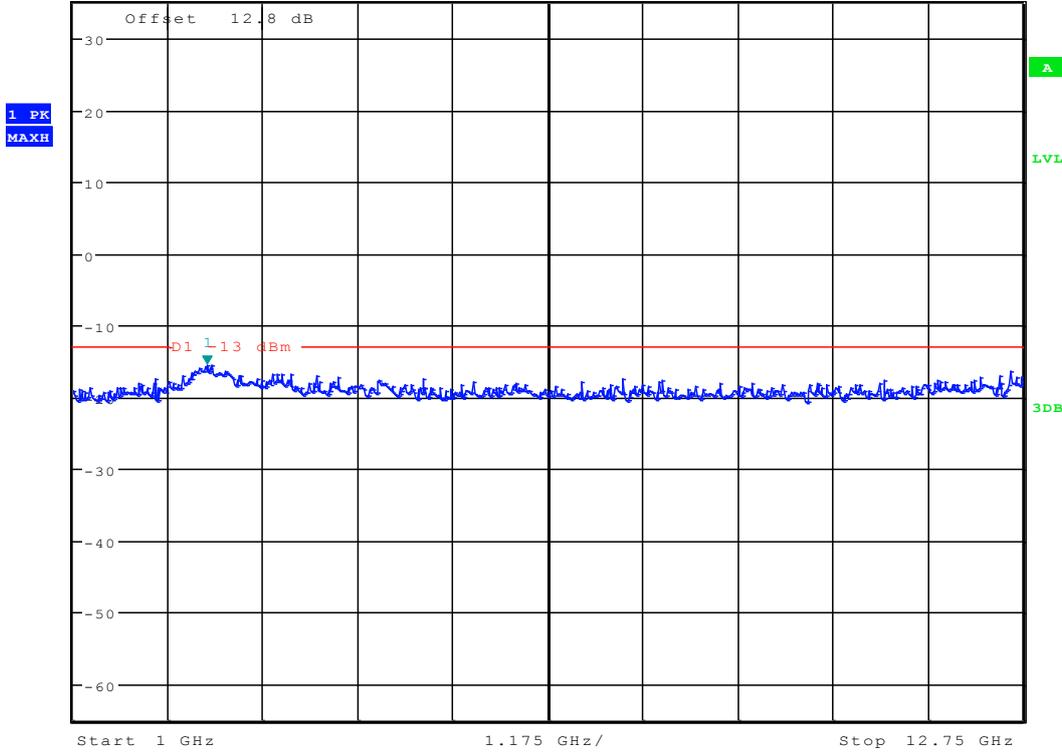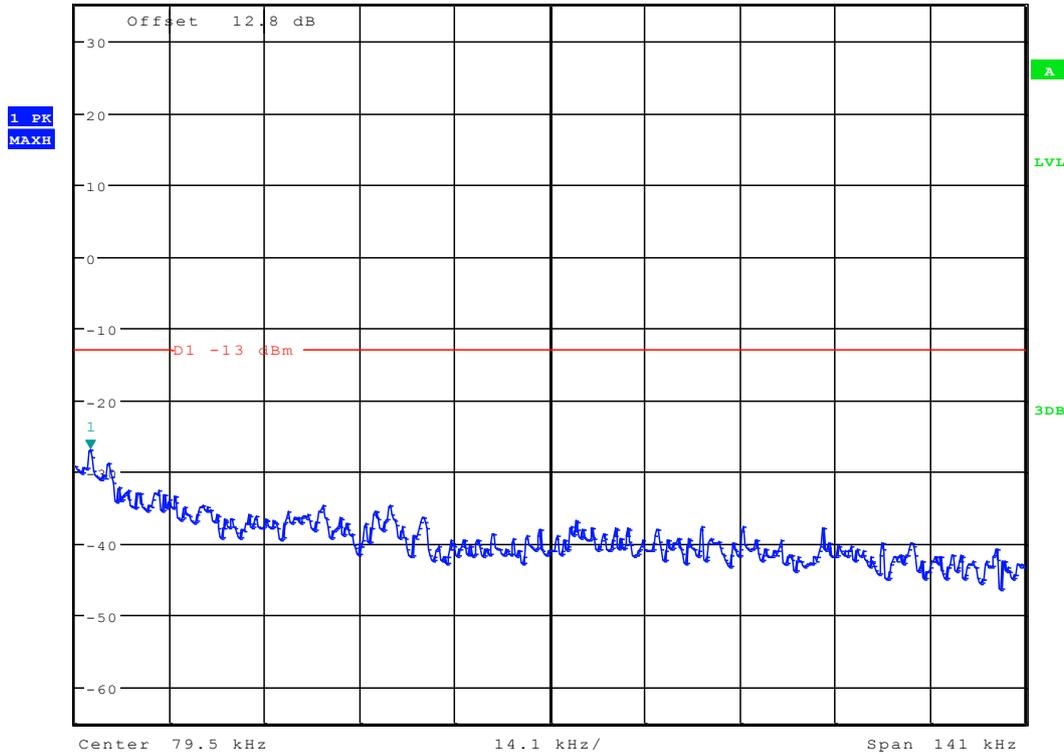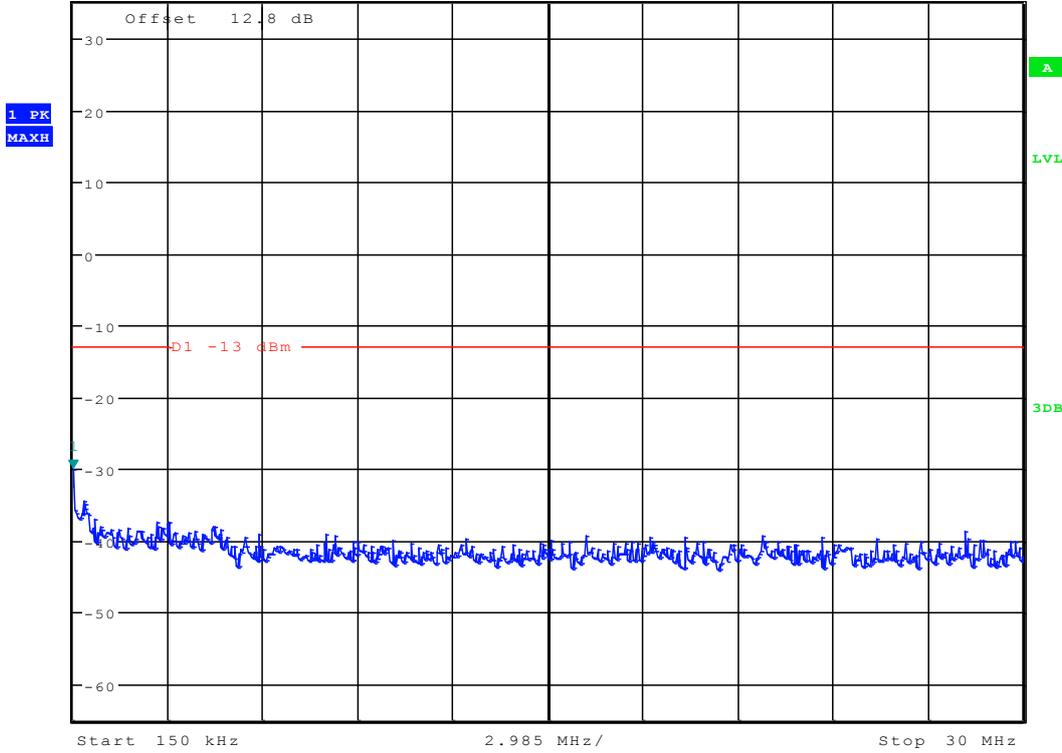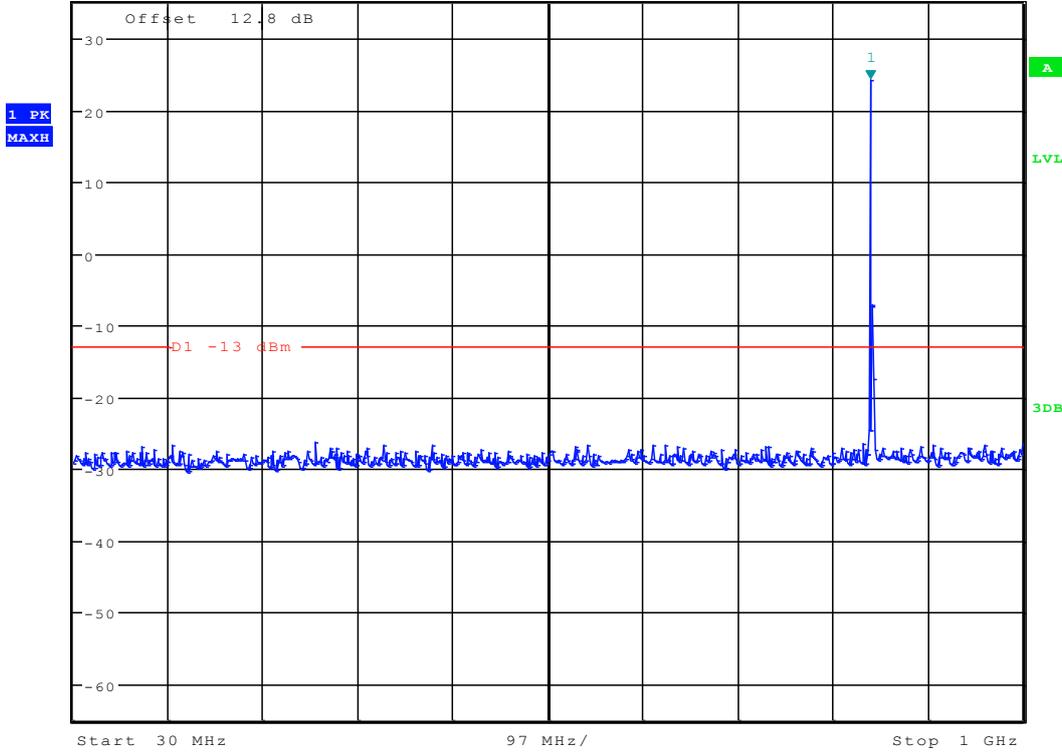
Date: 18.APR.2012 13:18:04
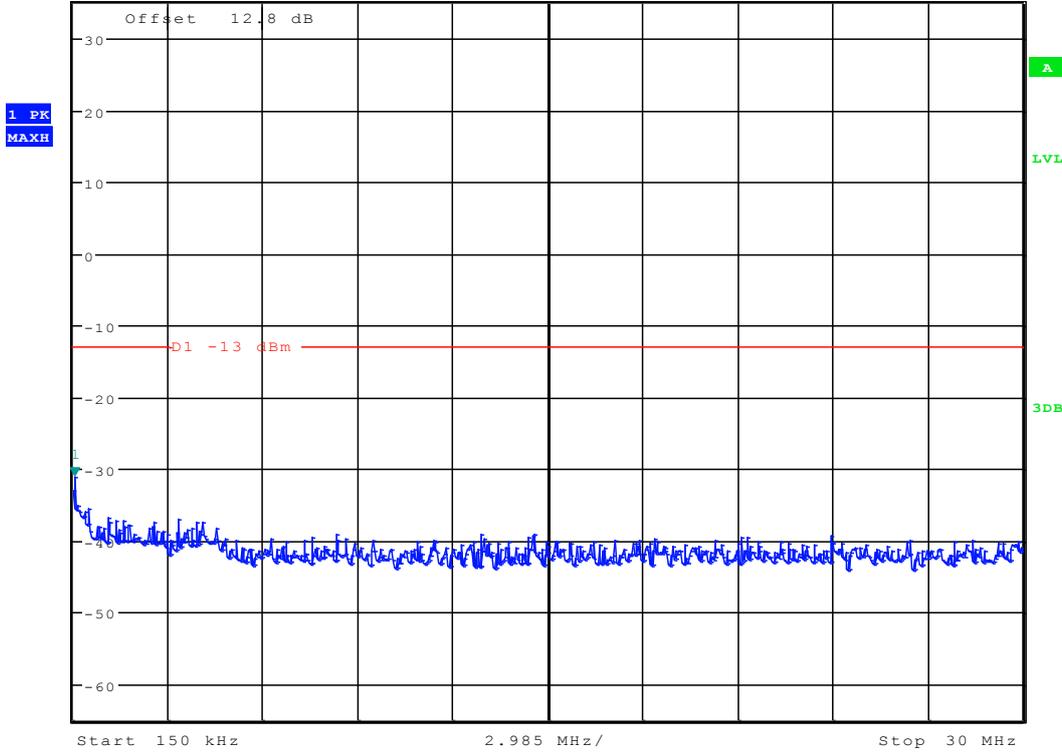
Date: 18.APR.2012 13:20:01

```
                              * RBW  100 kHz      Marker 1 [T1 ]
                              * VBW  300 kHz             24.97 dBm
   Ref  35 dBm        Att  50 dB    SWT  100 ms    839.887820513 MHz

      Offset   12.8 dB
  -30
                                                              1                  A

1 PK
MAXH  -20
                                                                                LVL
  -10

   0

 --10
      D1 -13 dBm
                                                                                3DB
 --20

 --30

 --40

 --50

 --60

   Start  30 MHz            97 MHz/              Stop  1 GHz
```
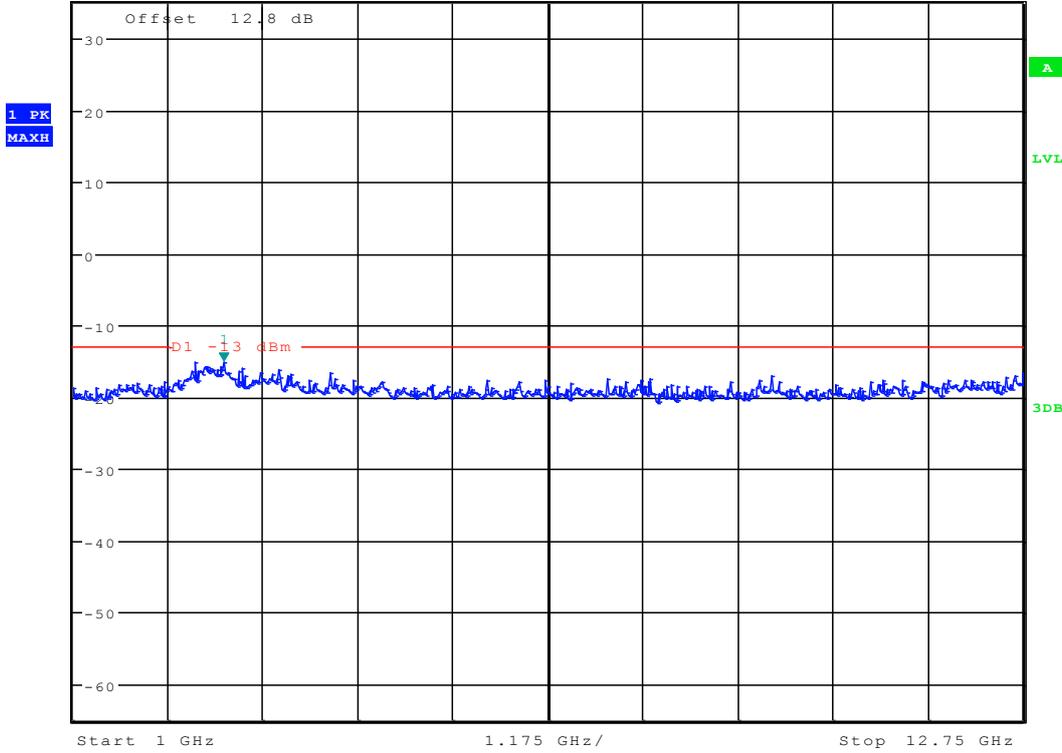
Date: 18.APR.2012 13:20:46

Date: 18.APR.2012 13:22:32

3.1.2.2.3 QPSK/full RBs


```
                                      *RBW  1 kHz        Marker 1 [T1 ]
                                      *VBW 10 kHz                -27.50 dBm
        Ref   35 dBm           Att  50 dB    SWT 145 ms      10.807692308 kHz

            Offset   12.8 dB                                              A
         30

   1 PK    20                                                            LVL
   MAXH
         10

          0

        -10   D1 -13 dBm

        -20                                                              3DB
        1
        -30

        -40

        -50

        -60

        Start  9 kHz              14.1 kHz/           Stop  150 kHz
```
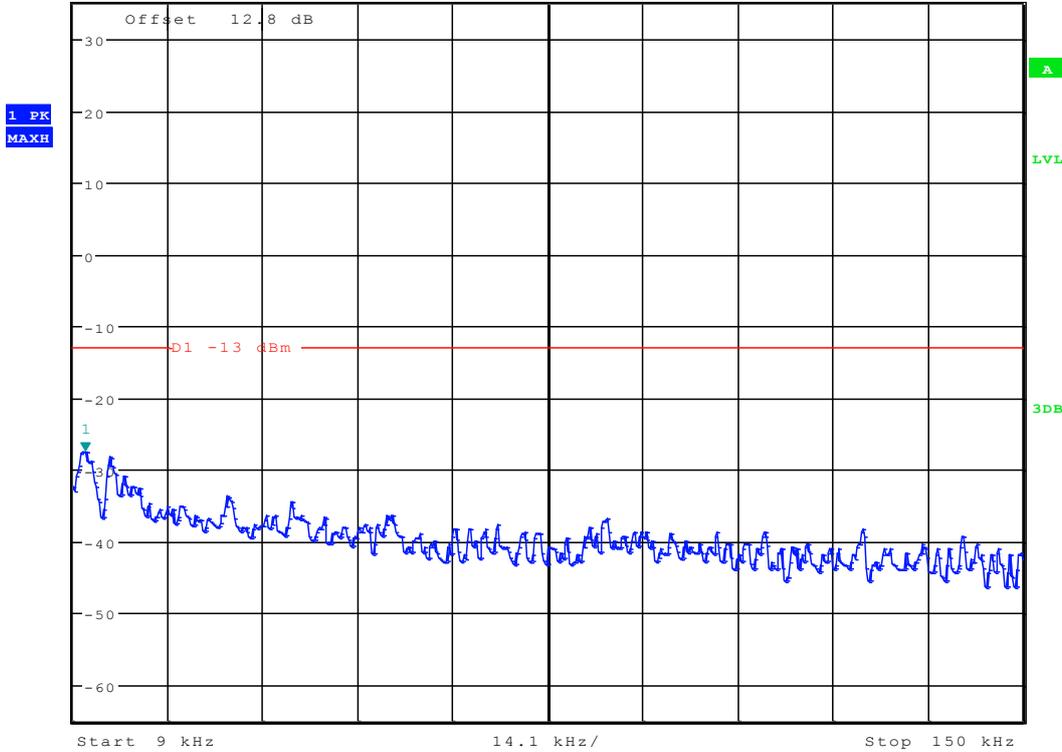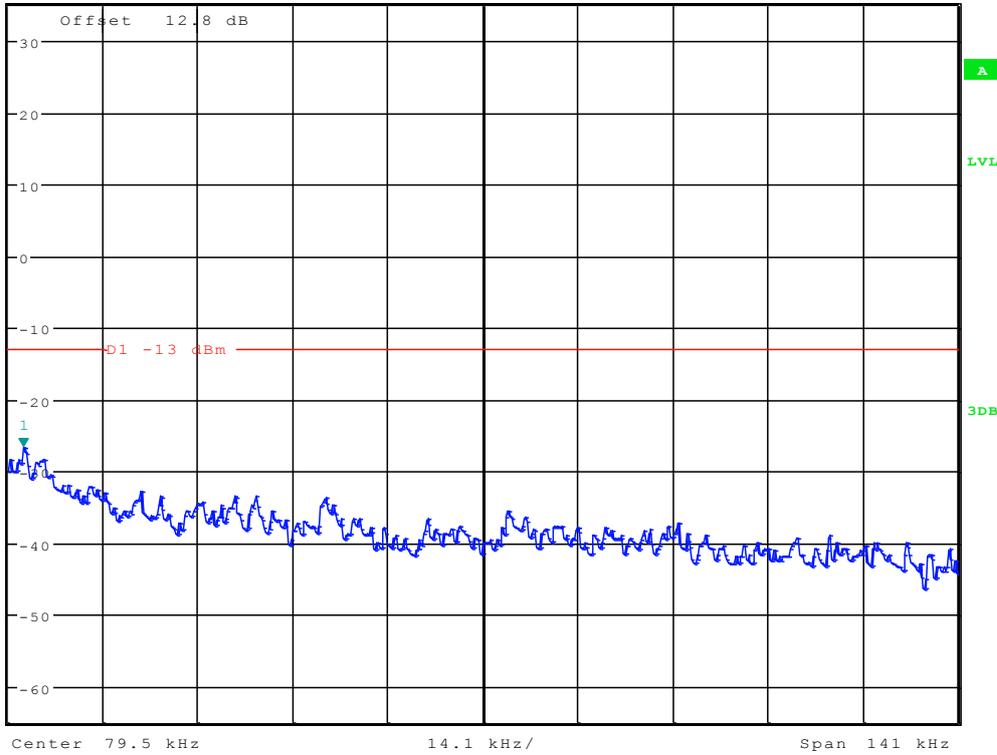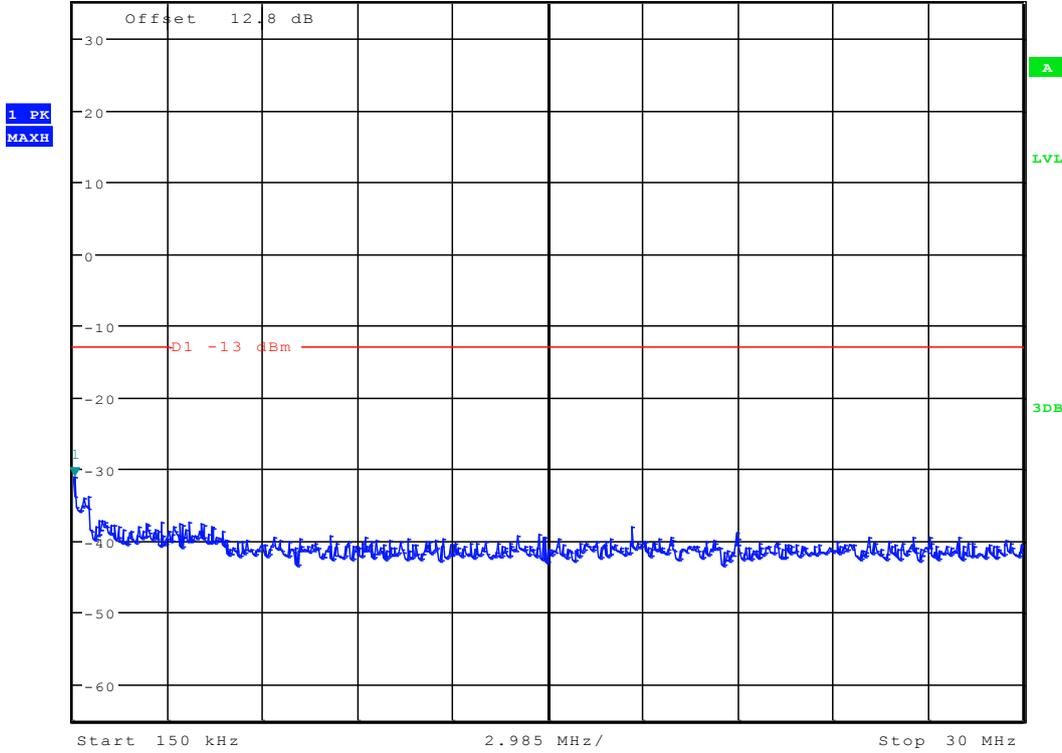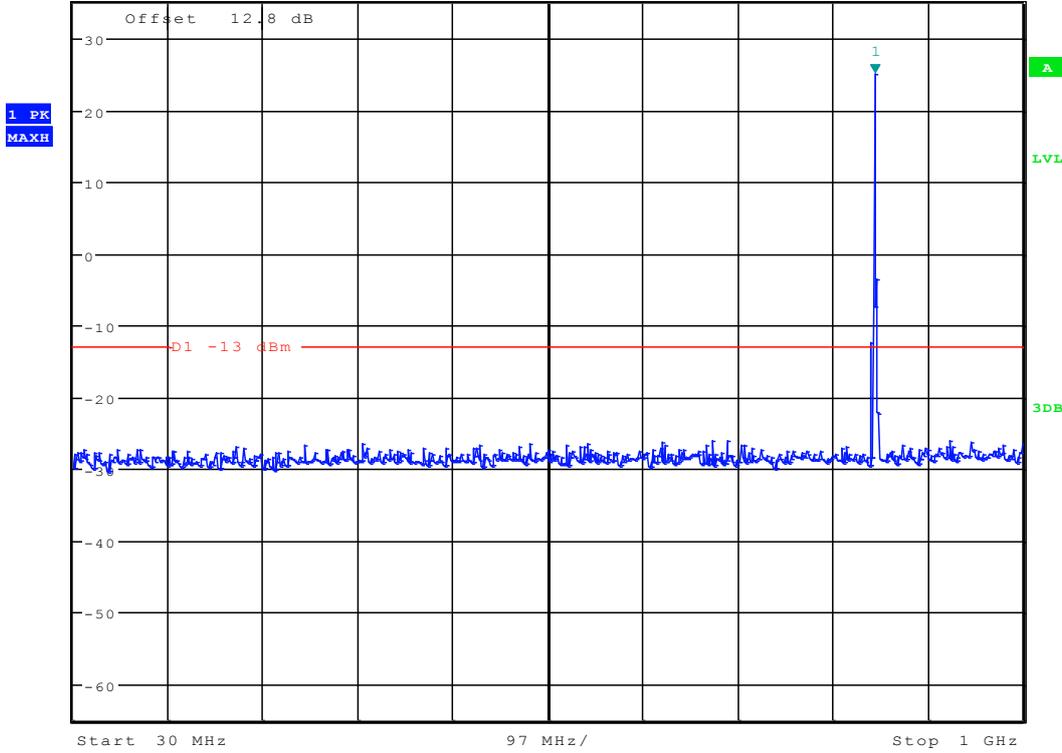
Date: 18.APR.2012 13:18:16
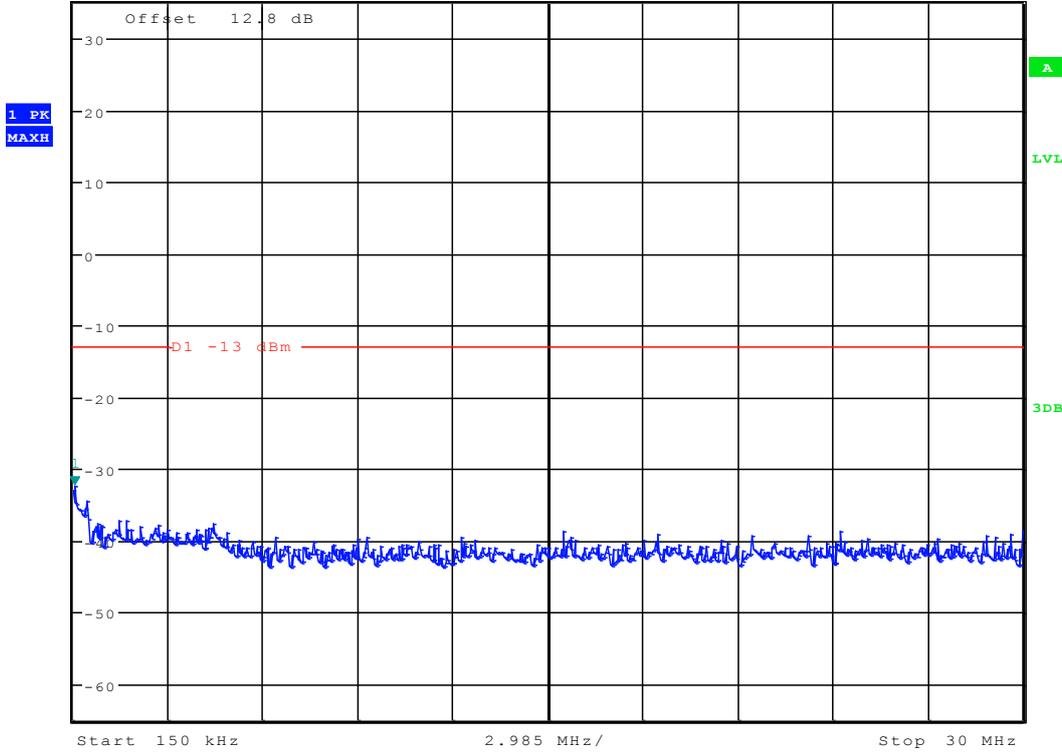
Date: 18.APR.2012 13:19:15

Date: 18.APR.2012 13:21:10

Ref   35 dBm   Att   50 dB   SWT 70 ms

* RBW 1 MHz   Marker 1 [T1]
* VBW 3 MHz   -15.58 dBm
                      2.657051282 GHz

Offset   12.8 dB

1 PK
MAXH

A

LVL

D1 l 13 dBm

3DB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

Date: 18.APR.2012 13:22:04

3.1.2.3 Channel = T

3.1.2.3.1 QPSK/1RBs /RB #0

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Date: 18.APR.2012 13:26:52

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```
                              * RBW  100 kHz      Marker 1 [T1 ]
                              * VBW  300 kHz              24.22 dBm
     Ref   35 dBm      Att  50 dB    SWT  100 ms   844.551282051 MHz
```



```
Date: 18.APR.2012  13:25:00
```

```
                              * RBW  1 MHz        Marker 1 [T1 ]
                              * VBW  3 MHz               -15.00 dBm
       Ref   35 dBm     Att   50 dB    SWT  70 ms   2.864182692 GHz
```
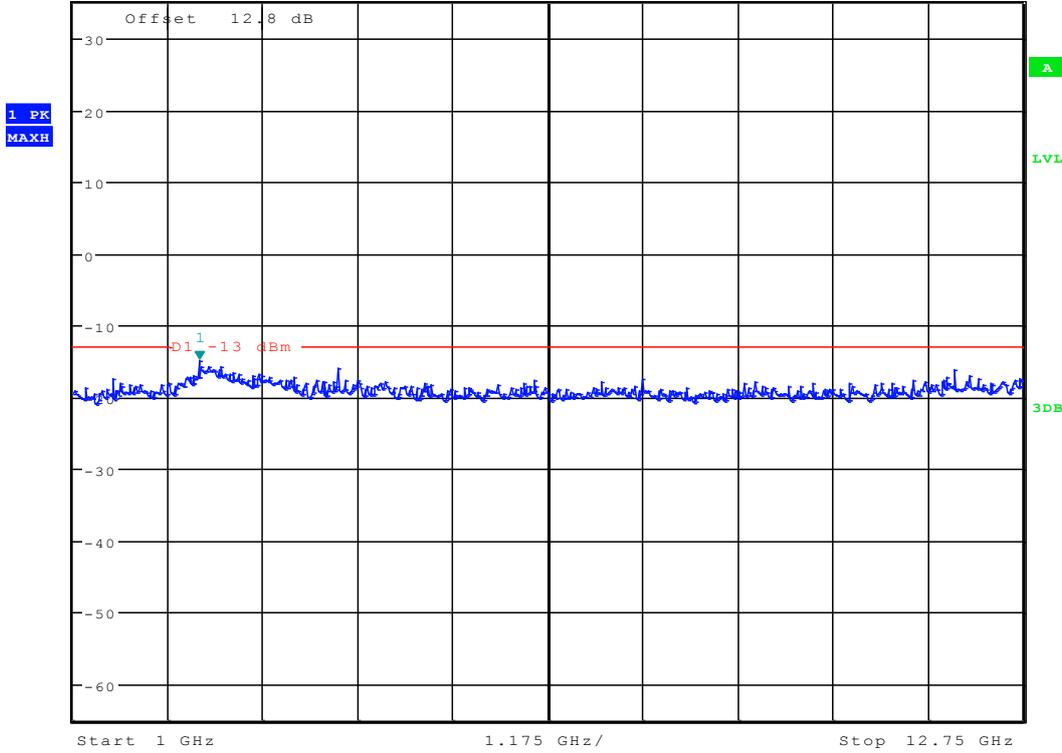


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 13:23:27

3.1.2.3.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz      Marker 1 [T1 ]
                                    * VBW  10 kHz              -26.60 dBm
     Ref   35 dBm          Att  50 dB   SWT 145 ms     11.259615385 kHz
```

Offset 12.8 dB	

- Center 79.5 kHz
- 14.1 kHz/
- Span 141 kHz

D1 -13 dBm

1 PK MAXH

A

LVL

3DB

Date: 18.APR.2012 13:28:29

Date: 18.APR.2012 13:26:10

Date: 18.APR.2012 13:25:11

Date: 18.APR.2012 13:23:11

3.1.2.3.3 QPSK/full RBs

```
                                      * RBW  1 kHz        Marker 1 [T1 ]
                                      * VBW 10 kHz              -31.97 dBm
         Ref   35 dBm          Att  50 dB    SWT 145 ms    13.745192308 kHz
```
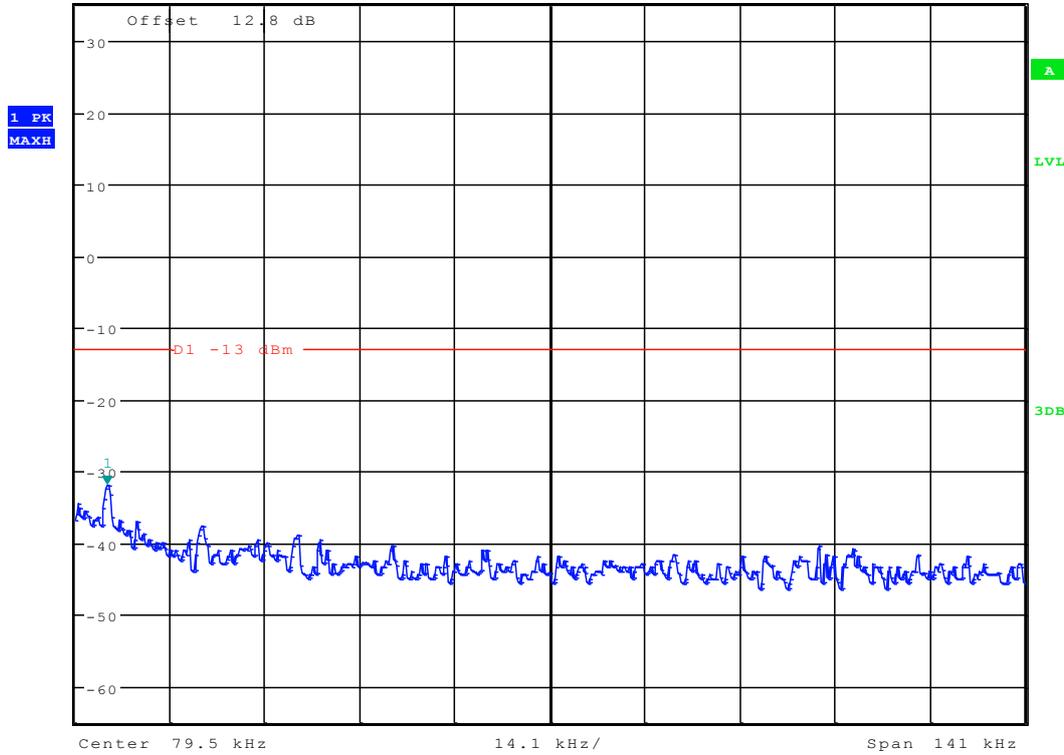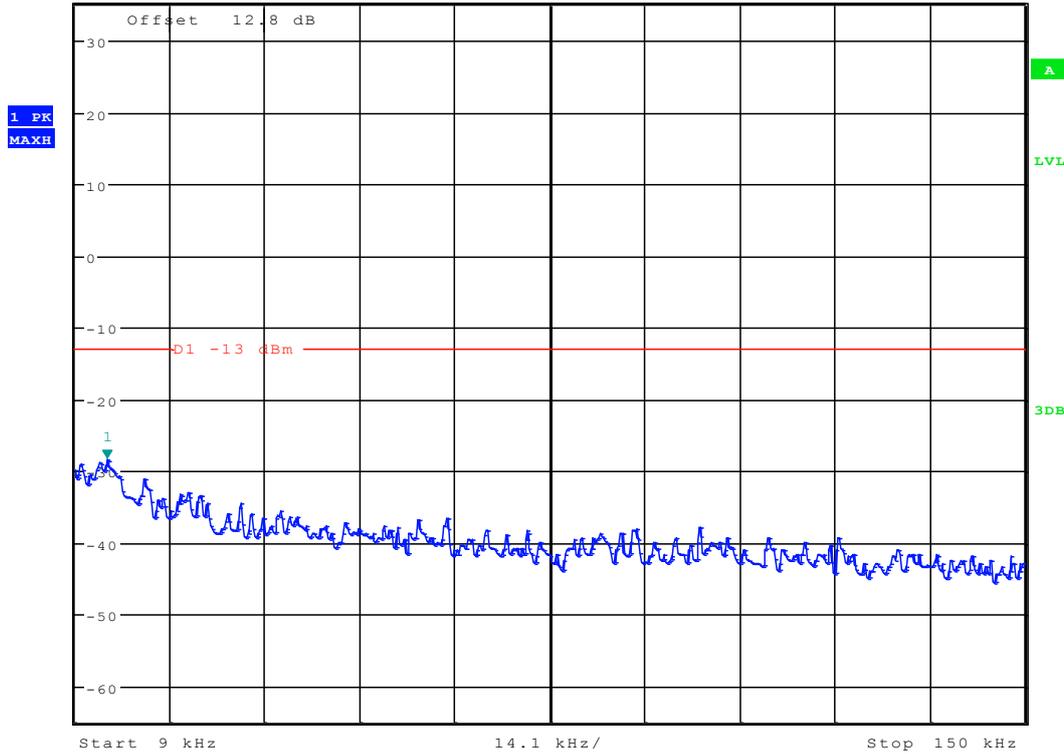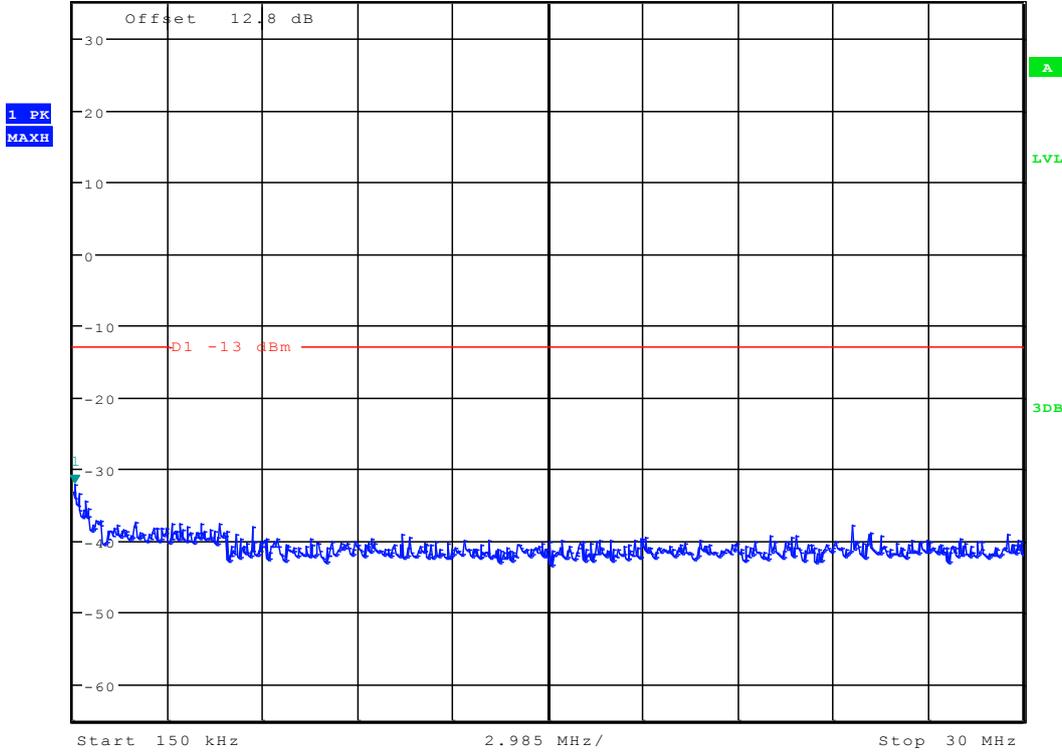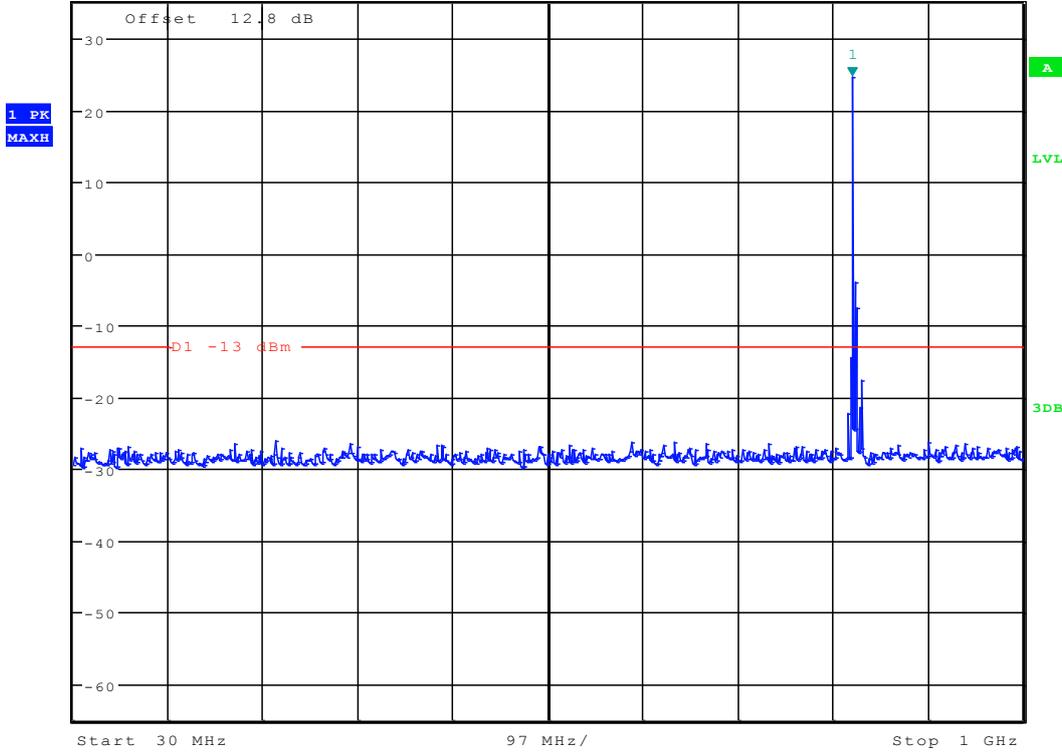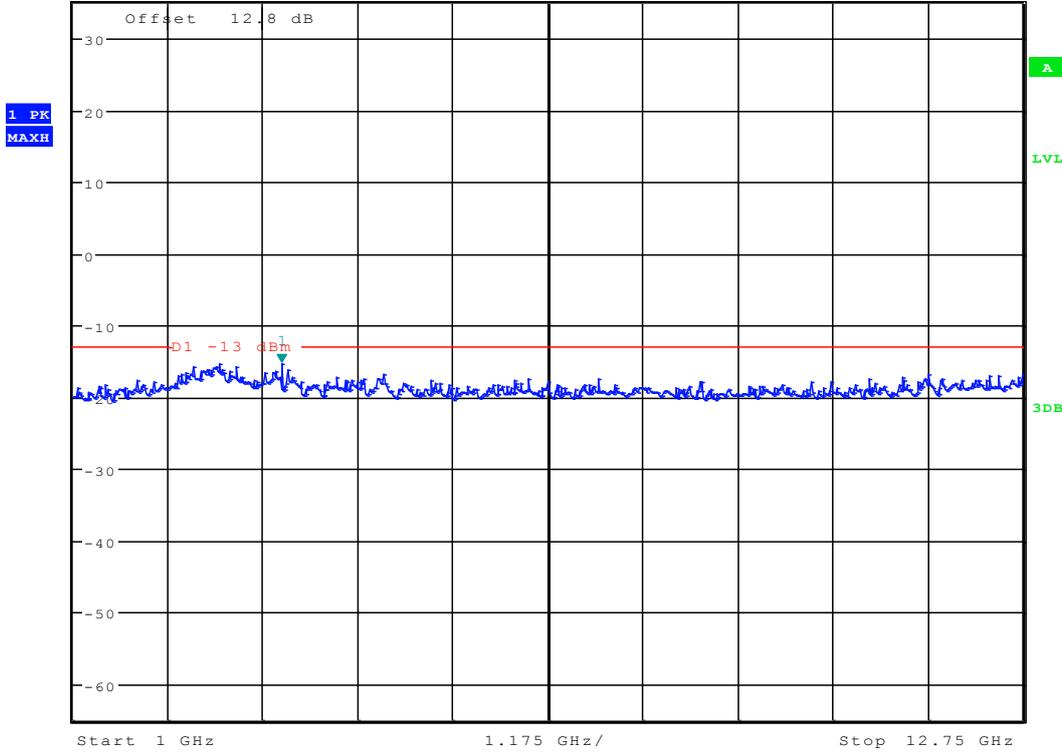


```
Center  79.5 kHz              14.1 kHz/              Span  141 kHz
```

Date: 18.APR.2012 13:28:01
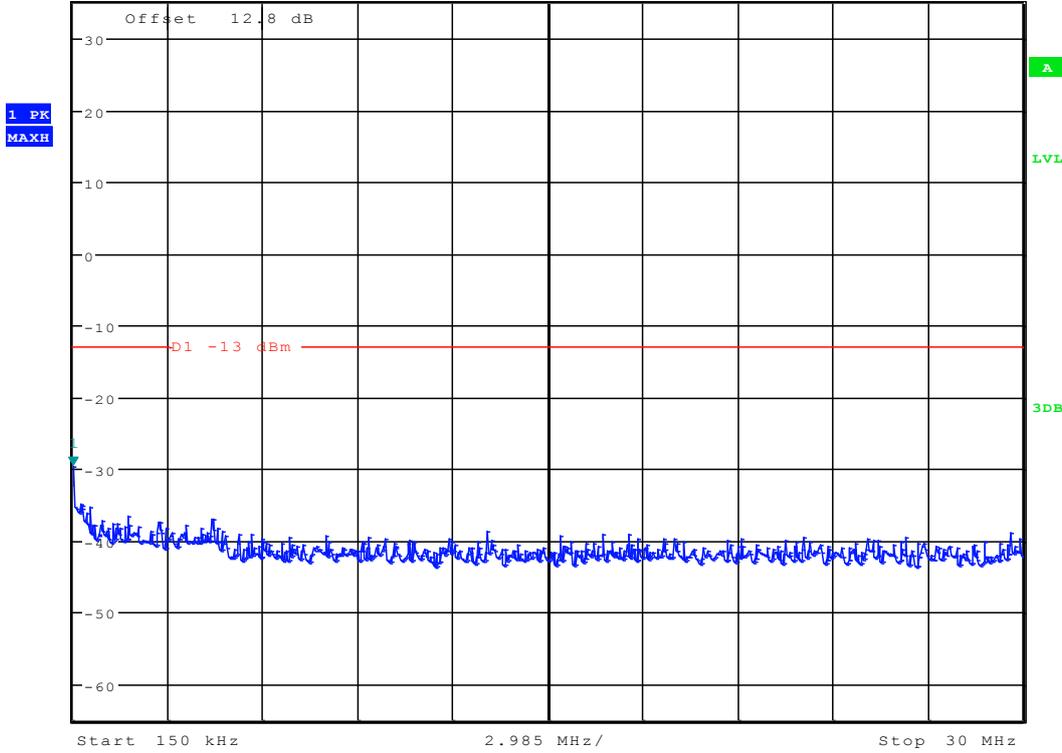
Date: 18.APR.2012 13:27:15

*RBW 100 kHz	Marker 1 [T1]	
*VBW 300 kHz	14.76 dBm	
Ref 35 dBm	Att 50 dB	SWT 100 ms	844.551282051 MHz
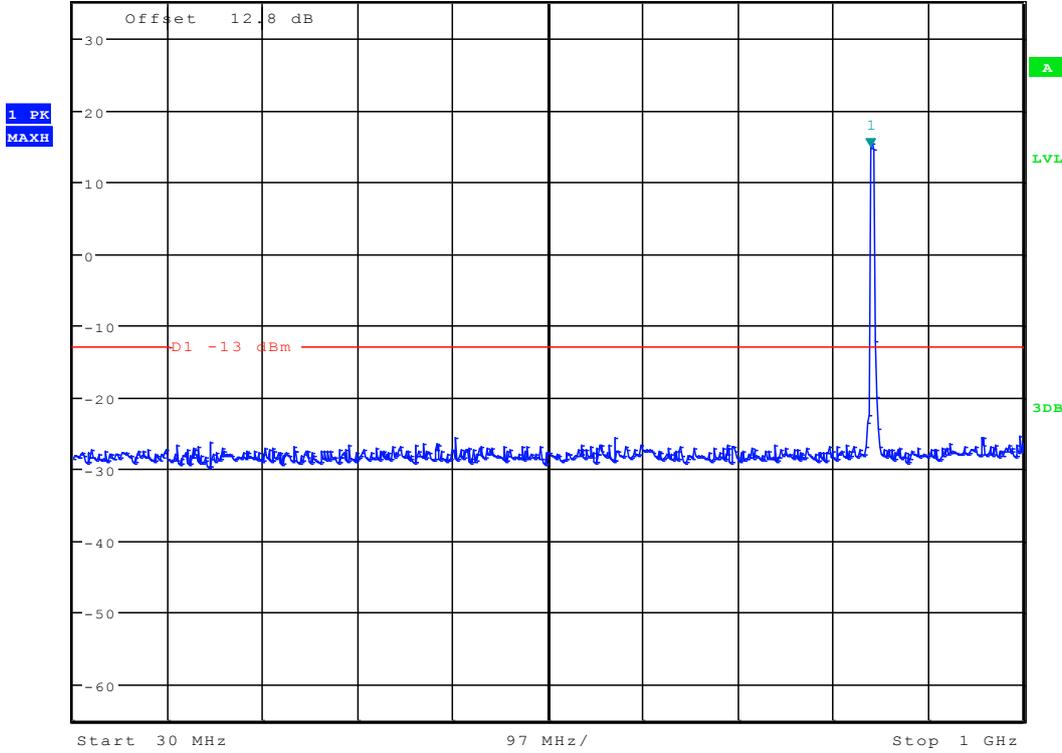
Offset 12.8 dB

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 18.APR.2012 13:24:50

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3.1.3 Channel Bandwidth = Highest (10 MHz)

3.1.3.1 Channel = B

3.1.3.1.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 13:32:46

* RBW 10 kHz
* VBW 30 kHz

Marker 1 [T1]
-32.20 dBm

Ref 35 dBm   Att 50 dB   SWT 300 ms   197.836538462 kHz

Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 18.APR.2012 13:34:49

Date: 18.APR.2012 13:36:07

Date: 18.APR.2012 13:37:53

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3.1.3.1.2 QPSK/1RBs /RB #max

```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW  10 kHz              -28.85 dBm
      Ref   35 dBm          Att   50 dB   SWT  145 ms      12.163461538 kHz

          Offset   12.8 dB
        -30                                                                    A
```
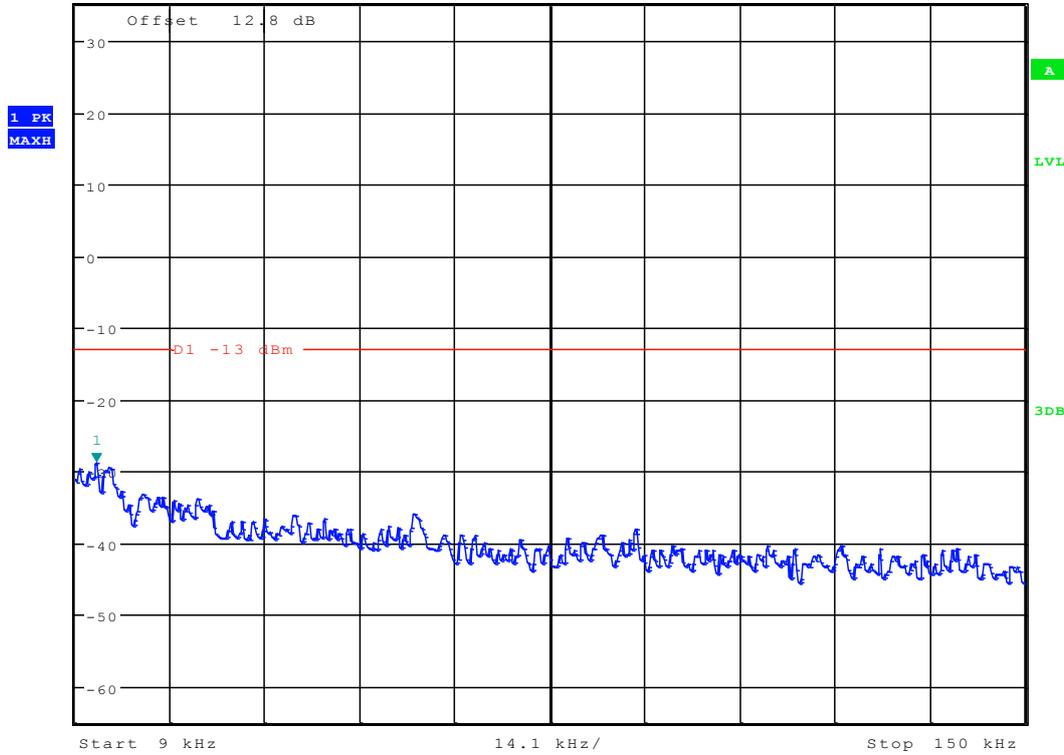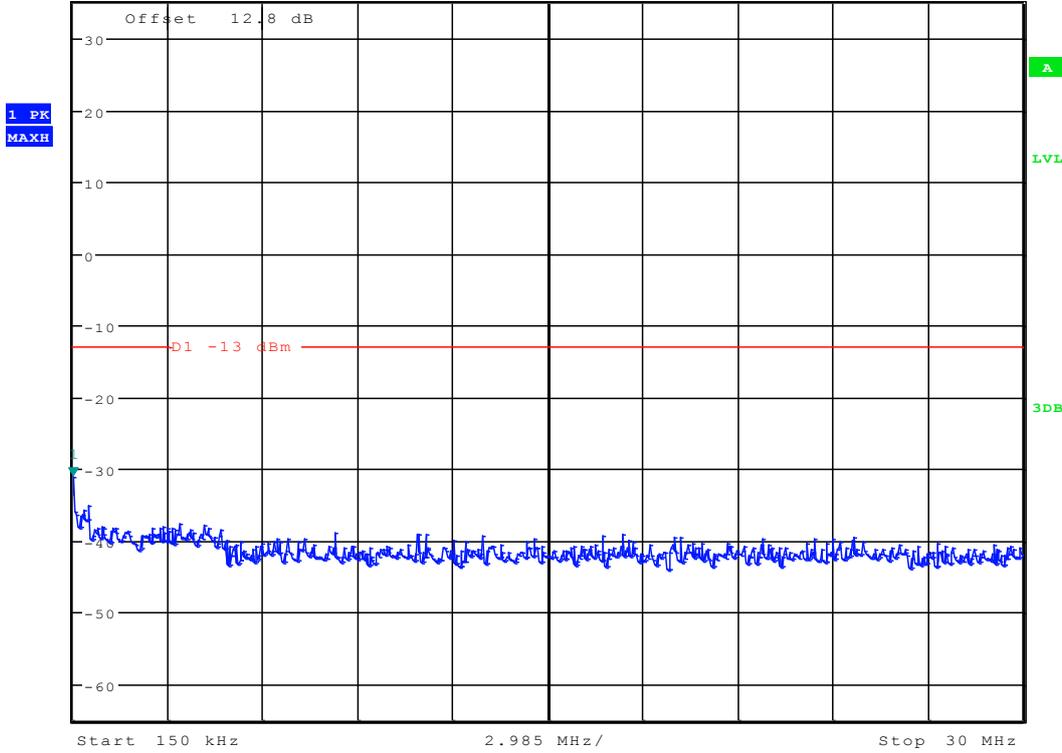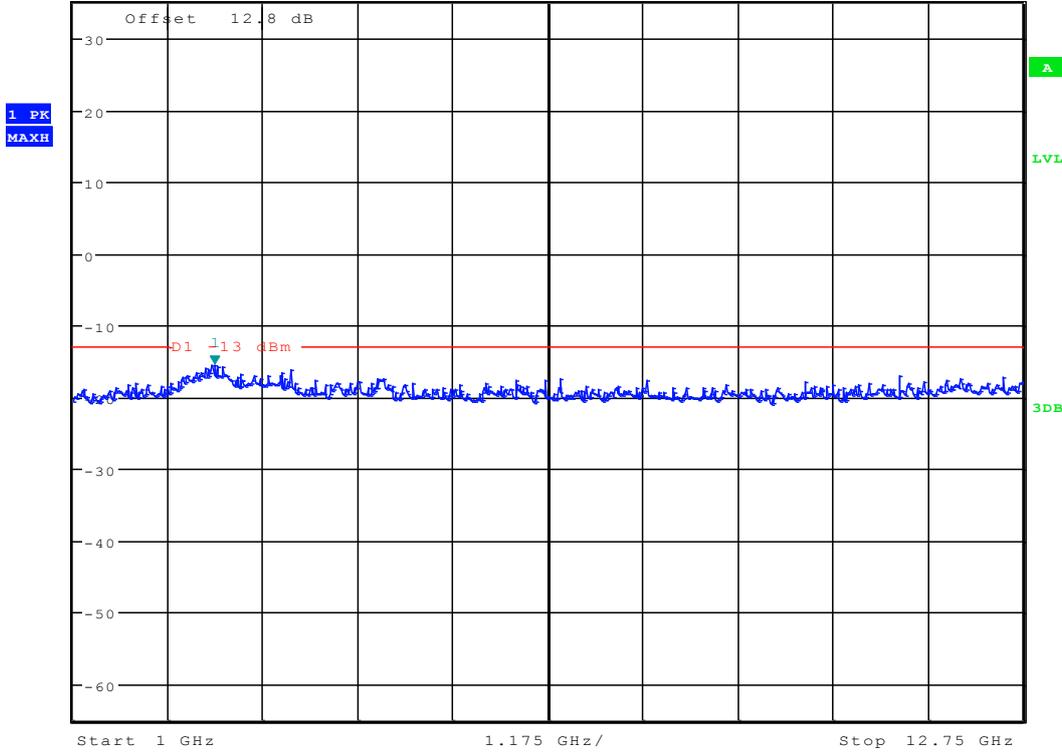


```
      Start  9 kHz             14.1 kHz/              Stop  150 kHz
```

Date: 18.APR.2012   13:33:40

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* RBW 10 kHz   Marker 1 [T1]
* VBW 30 kHz   -31.05 dBm
Ref 35 dBm   Att 50 dB   SWT 300 ms   150.000000000 kHz

Offset 12.8 dB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 18.APR.2012 13:34:17

```
                              * RBW  100 kHz     Marker 1 [T1 ]
                              * VBW  300 kHz              25.13 dBm
       Ref  35 dBm       Att  50 dB    SWT  100 ms    835.224358974 MHz
```
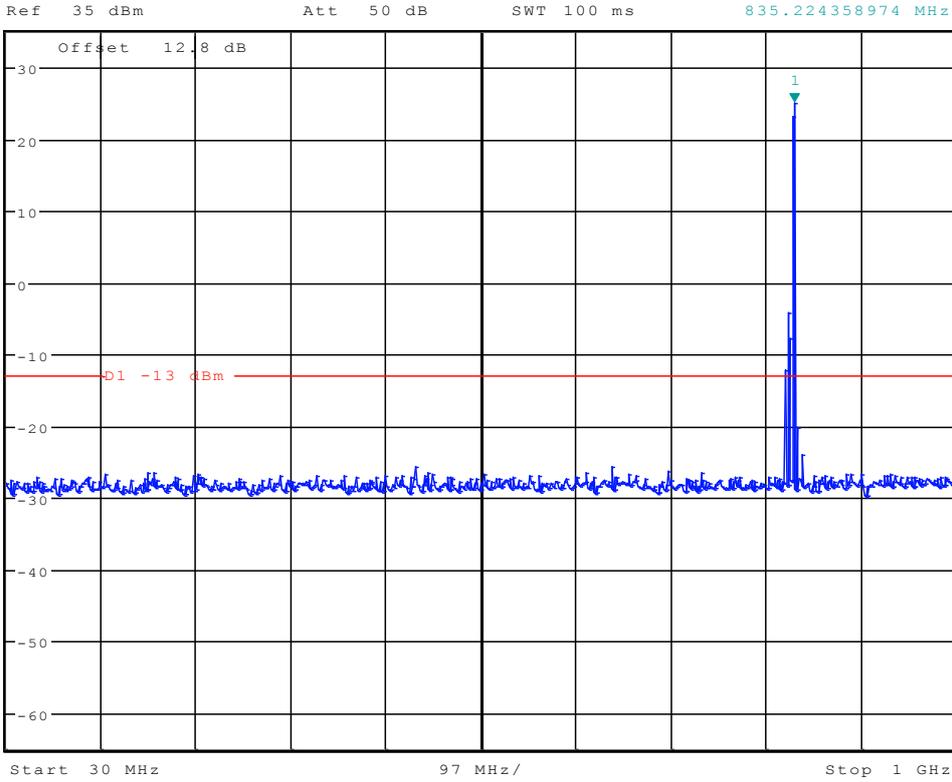


```
Date: 18.APR.2012  13:36:43
```

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz              -15.56 dBm
     Ref   35 dBm        Att  50 dB   SWT  70 ms        2.751201923 GHz

        Offset   12.8 dB
   -30

                                                                          A

1 PK
MAXH  -20
                                                                          LVL
   -10


    0


  -10
        D1  13 dBm

                                                                          3DB

  -30


  -40


  -50


  -60


   Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```
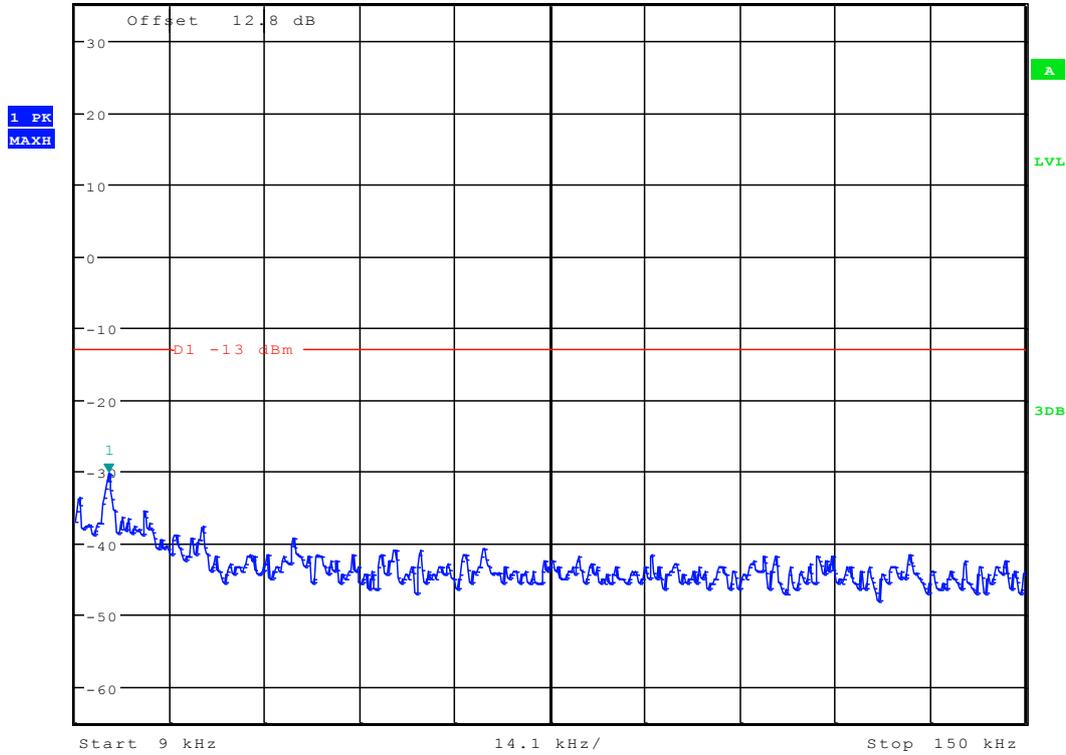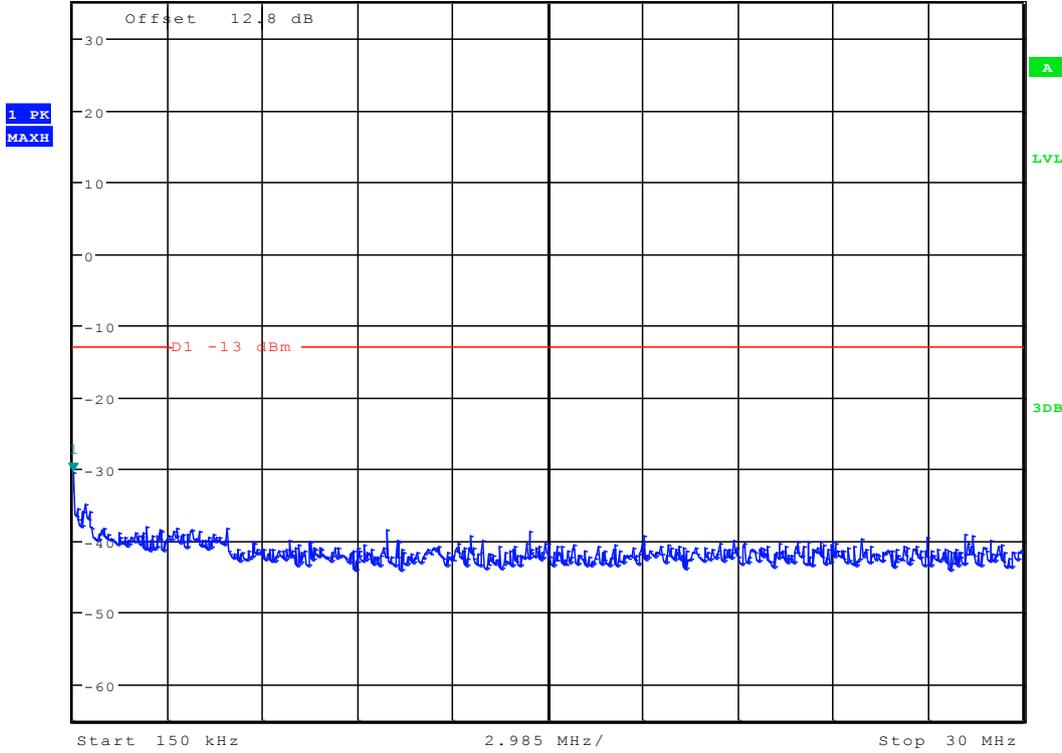
Date: 18.APR.2012 13:37:25

3.1.3.1.3 QPSK/full RBs

```
* RBW  1 kHz          Marker 1 [T1 ]
* VBW  10 kHz                    -30.32 dBm
Ref  35 dBm        Att  50 dB    SWT  145 ms      13.971153846 kHz
```
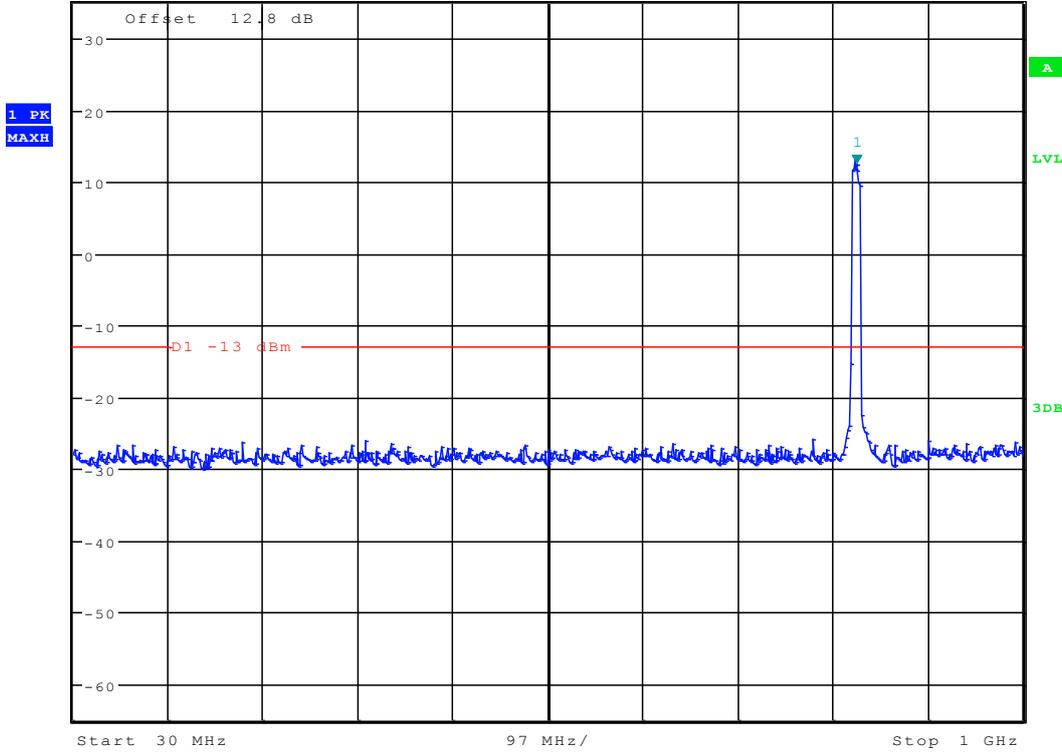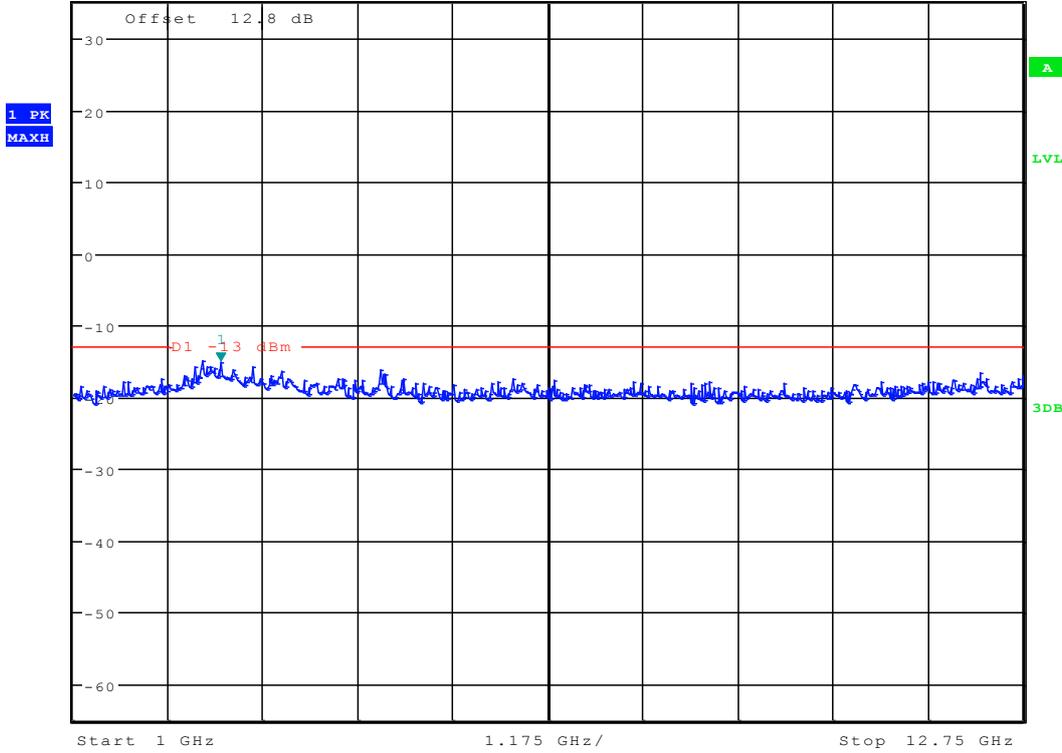

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```
                                     *RBW  100 kHz      Marker 1 [T1 ]
                                     *VBW  300 kHz              12.51 dBm
         Ref   35 dBm       Att  50 dB   SWT  100 ms    830.560897436 MHz
```
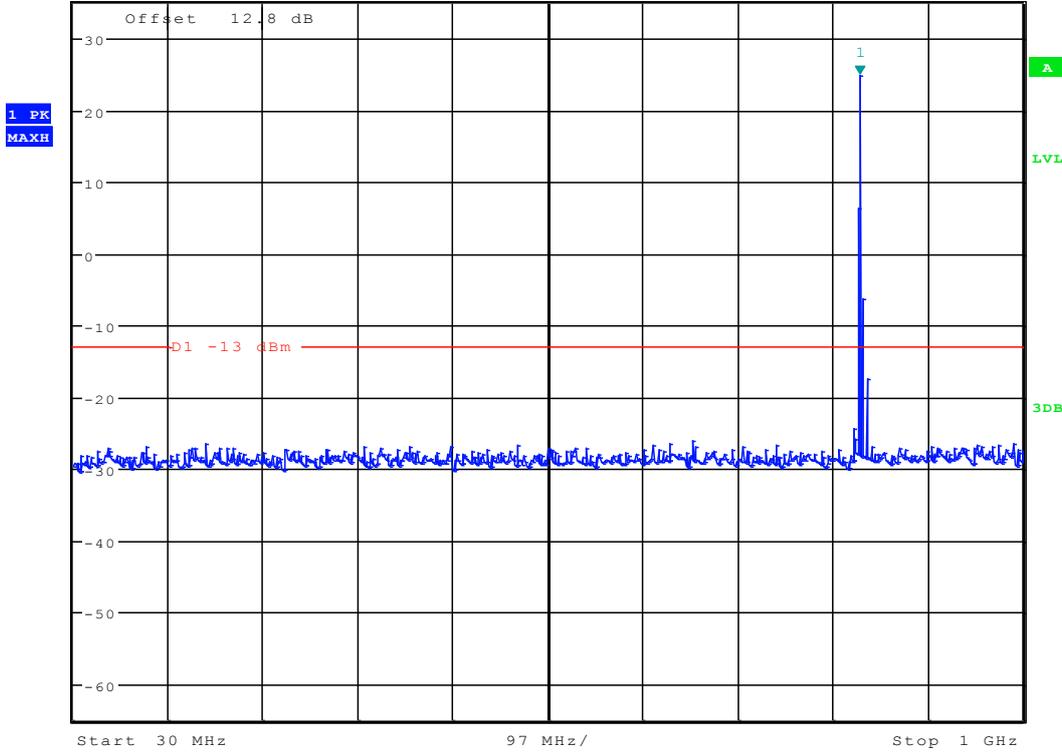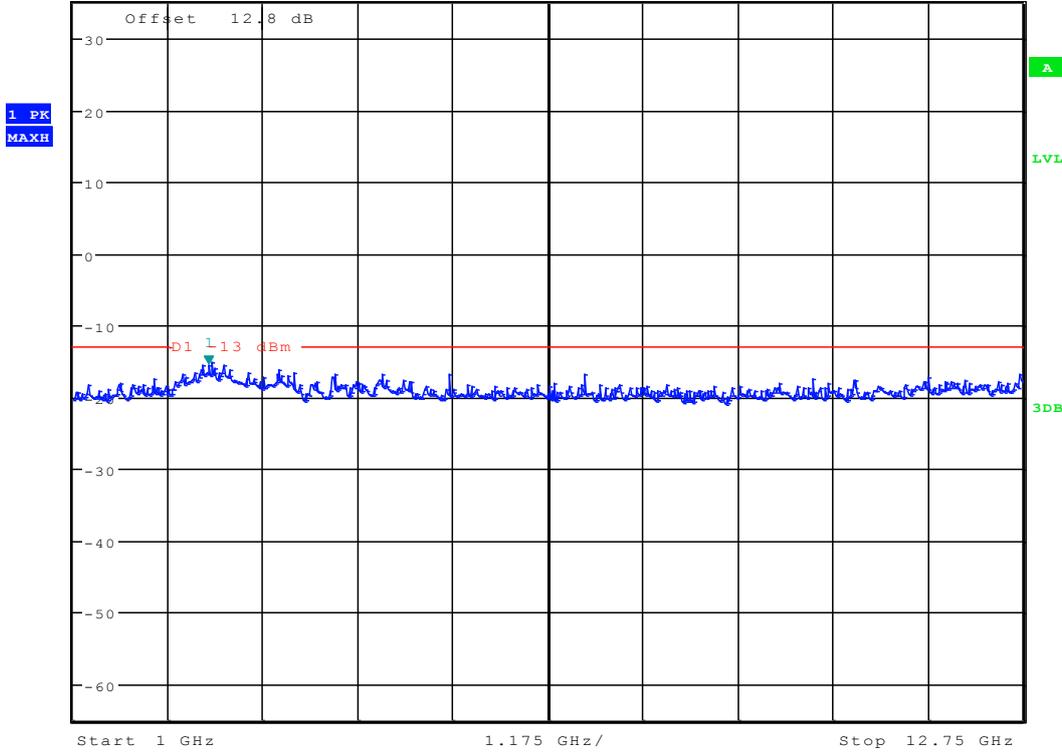


```
         Offset  12.8 dB
      30                                                                    A

 1 PK
 MAXH 20                                                        1
                                                                          LVL
      10

       0

     -10    D1 -13 dBm

     -20                                                                   3DB

     -30

     -40

     -50

     -60

      Start  30 MHz              97 MHz/              Stop  1 GHz
```

Date: 18.APR.2012 13:35:49

Date: 18.APR.2012   13:38:18

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3.1.3.2 Channel = M

3.1.3.2.1 QPSK/1RBs /RB #0

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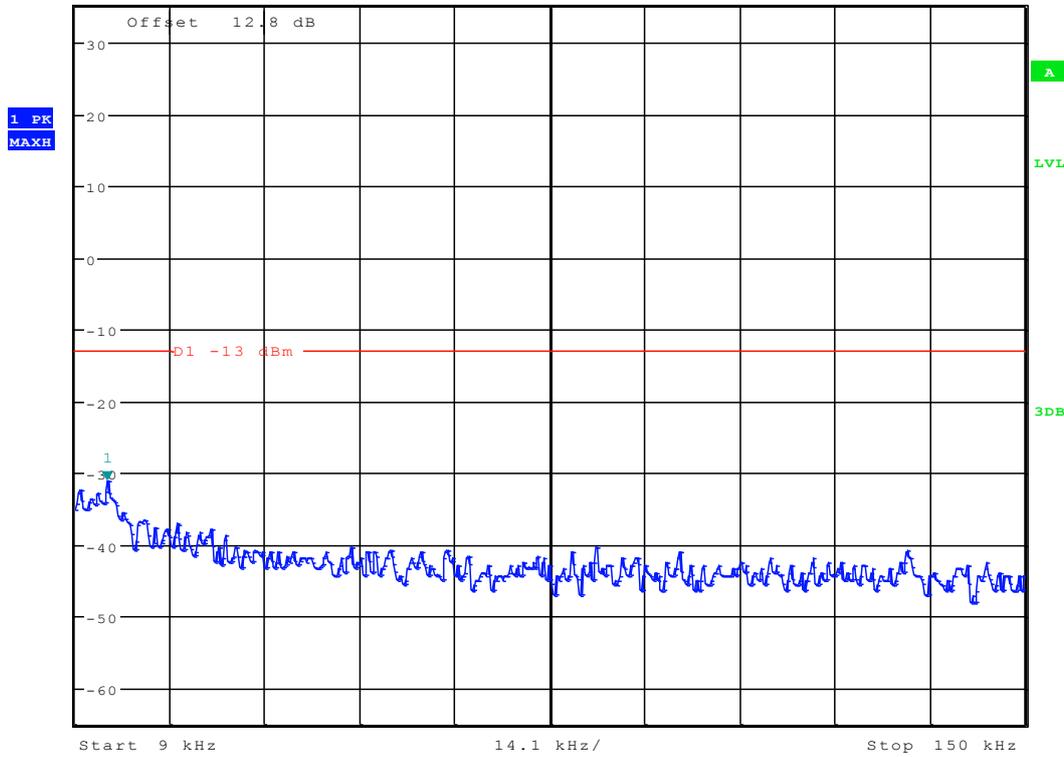
```
                                    * RBW  10 kHz       Marker 1 [T1 ]
                                    * VBW  30 kHz                  -33.66 dBm
         Ref   35 dBm      Att  50 dB   SWT 300 ms     150.000000000 kHz
```
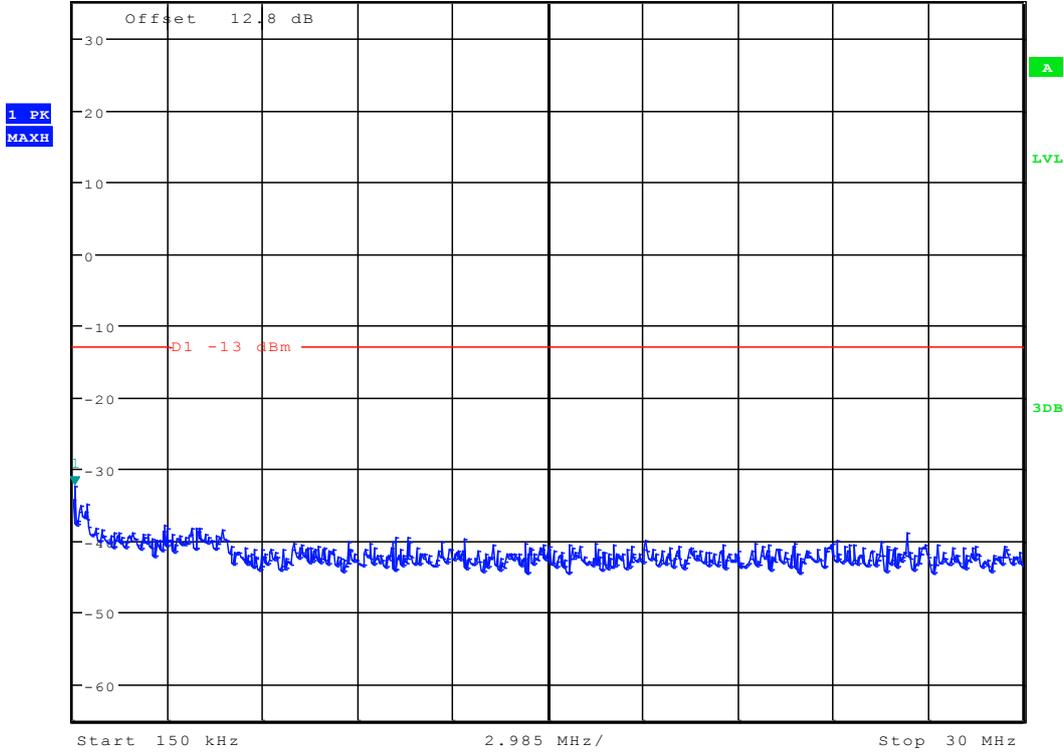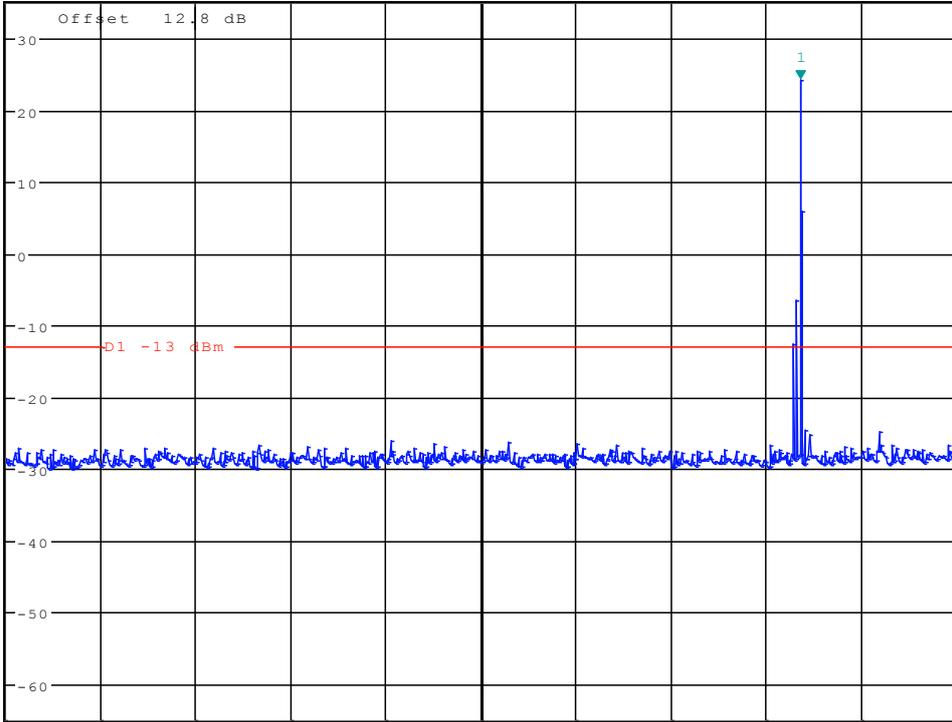


```
Start 150 kHz            2.985 MHz/             Stop  30 MHz
```
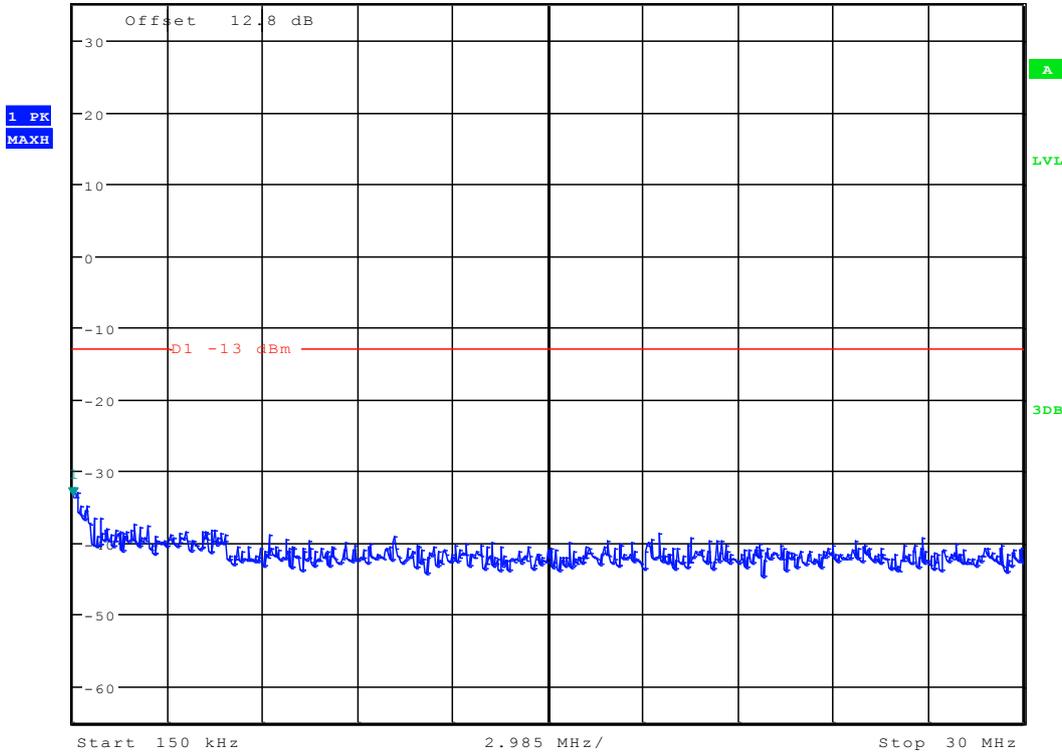
Date: 18.APR.2012 13:42:14

* RBW 100 kHz
* VBW 300 kHz
SWT 100 ms

Marker 1 [T1]
24.83 dBm
833.669871795 MHz

Ref 35 dBm   Att 50 dB

Offset 12.8 dB

1 PK
MAXH

D1 -13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

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Date: 18.APR.2012 13:40:22

3.1.3.2.2 QPSK/1RBs /RB #max

```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW  10 kHz                  -32.74 dBm
        Ref   35 dBm          Att   50 dB    SWT  145 ms        11.937500000 kHz
```
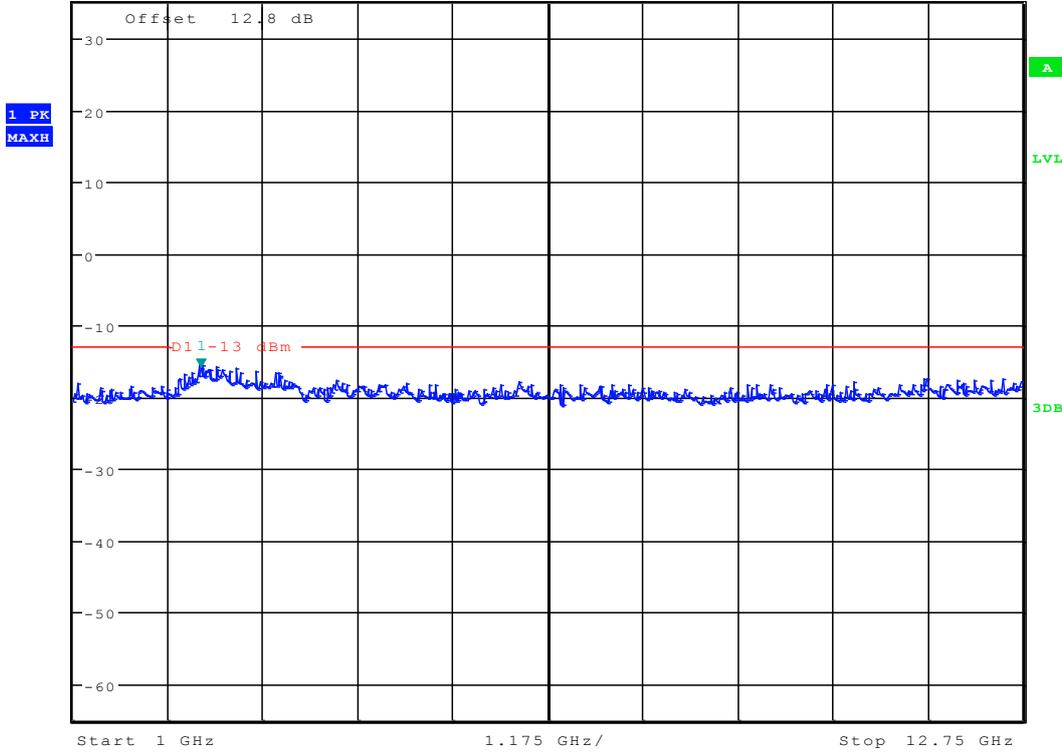
```
          Offset   12.8 dB
        30                                                              A

 1 PK
 MAXH  20                                                               LVL

        10

         0

       -10
        D1 -13 dBm
                                                                        3DB
       -20

       -30

       -40

       -50

       -60

        Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
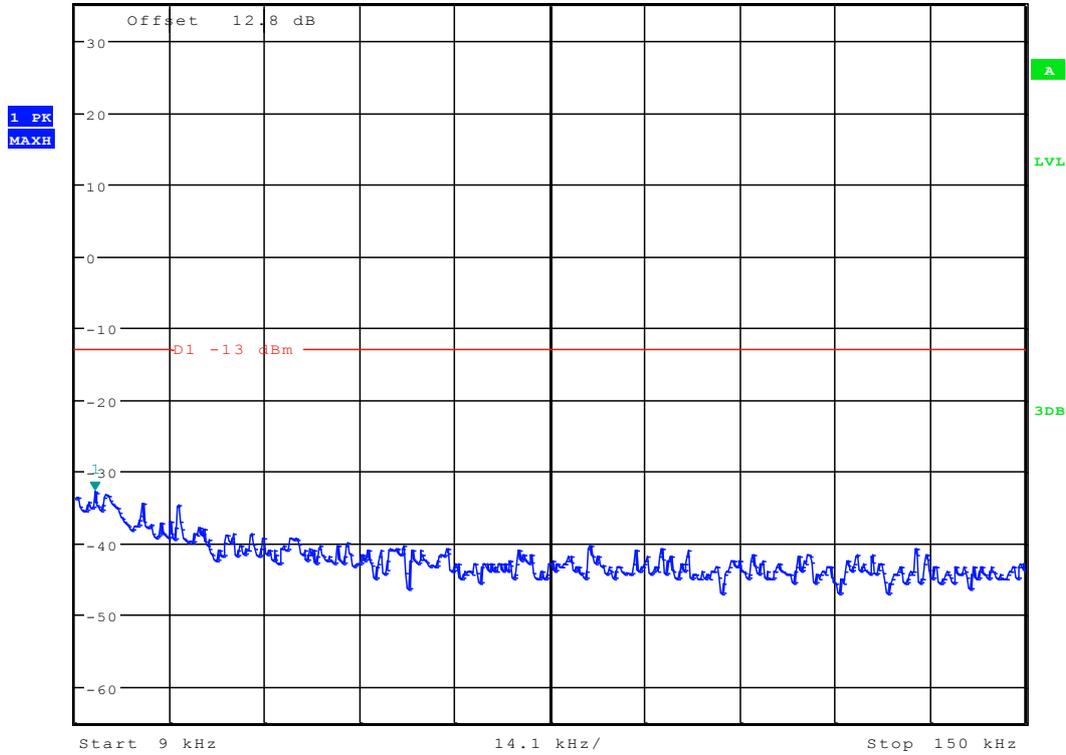
Date: 18.APR.2012 13:43:16

* RBW 10 kHz
* VBW 30 kHz
SWT 300 ms

Ref 35 dBm
Att 50 dB

Marker 1 [T1]
-32.32 dBm
197.836538462 kHz

Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz
2.985 MHz/
Stop 30 MHz

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Date: 18.APR.2012 13:40:30

3.1.3.2.3 QPSK/full RBs

```
                                      *RBW  1 kHz       Marker 1 [T1 ]
                                      *VBW 10 kHz                 -33.19 dBm
      Ref  35 dBm          Att  50 dB  SWT 145 ms        13.745192308 kHz
```
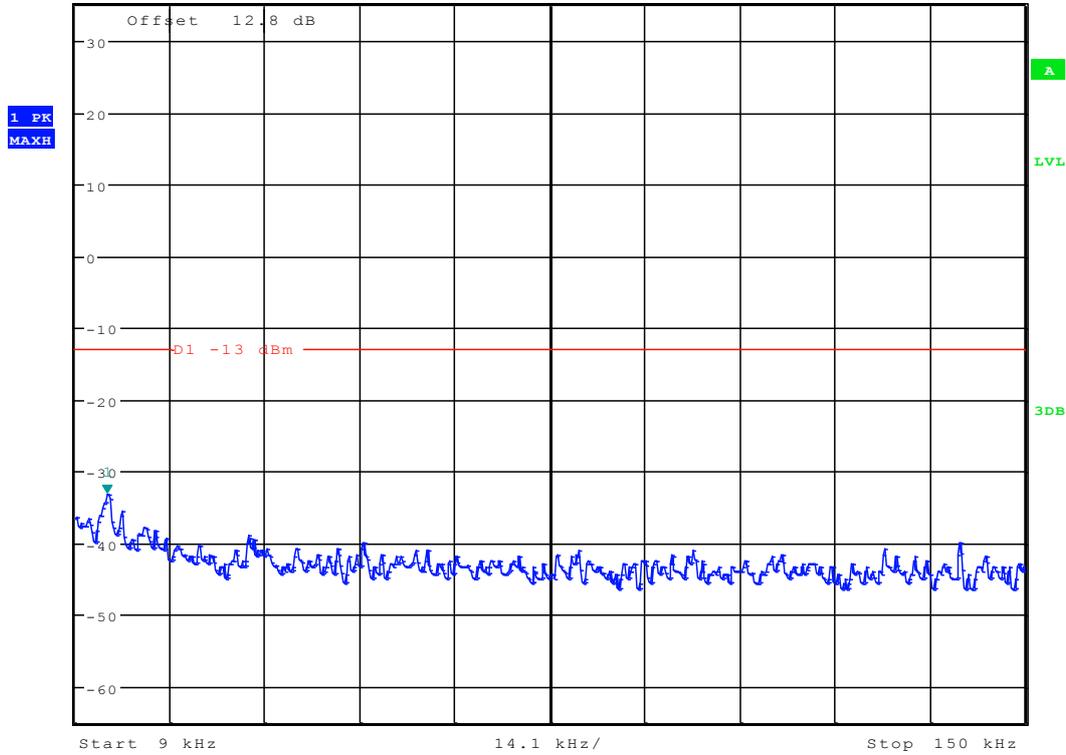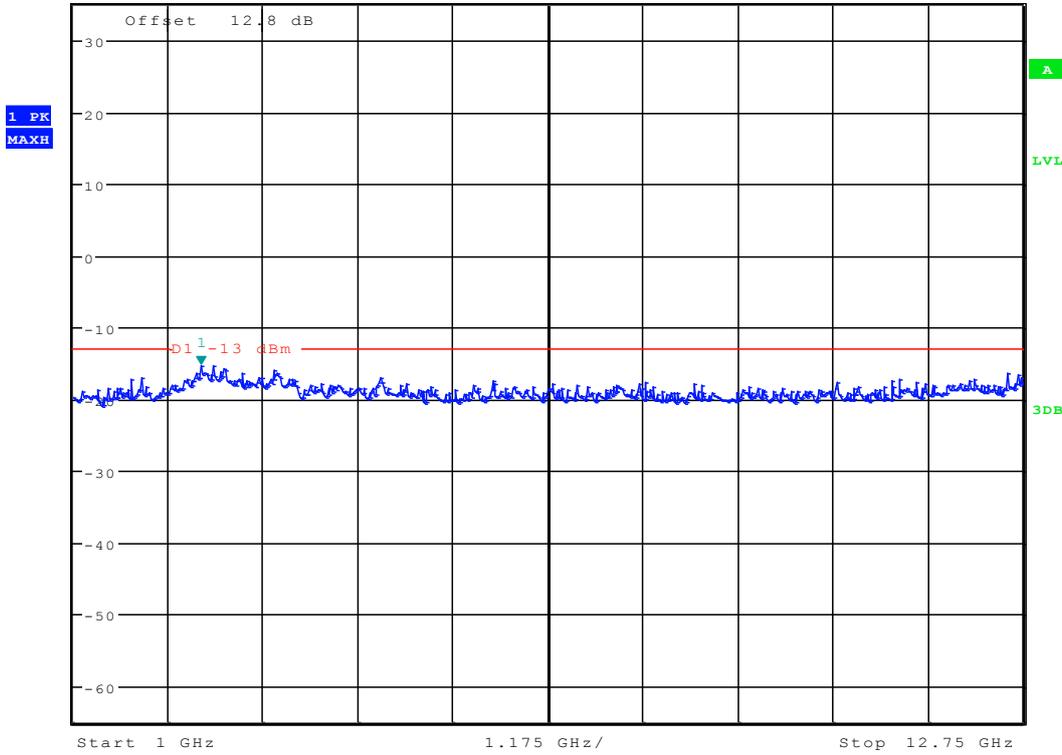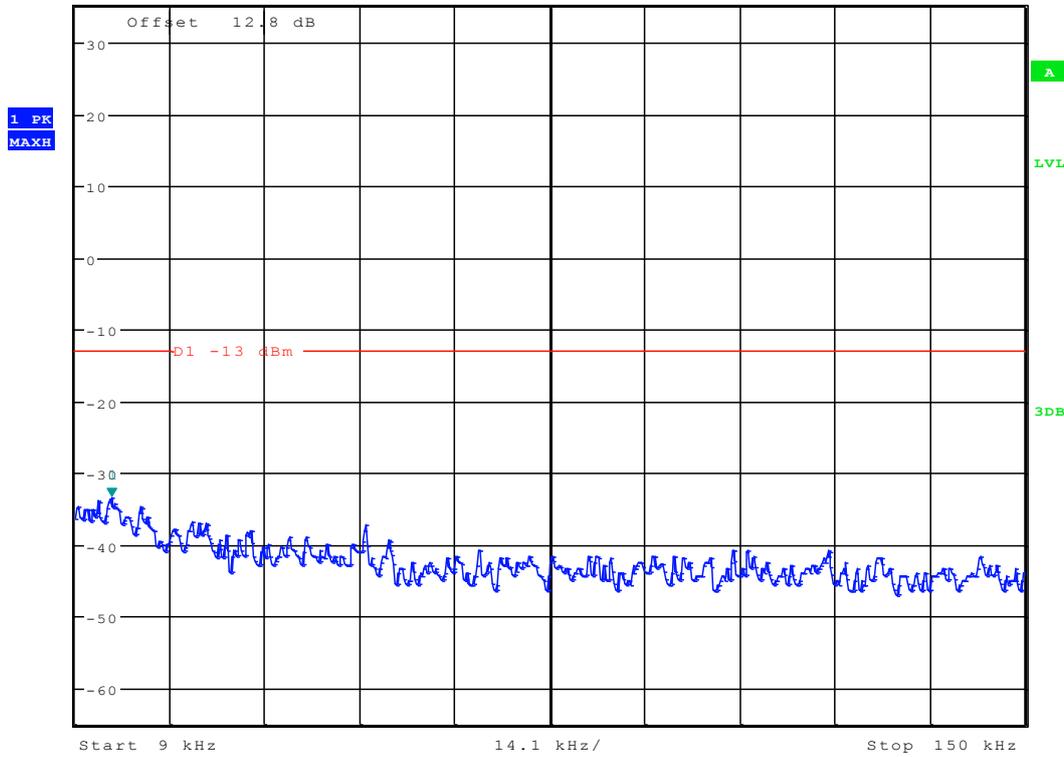


```
Date: 18.APR.2012  13:43:45
```

```
                              * RBW  10 kHz        Marker 1 [T1 ]
                              * VBW  30 kHz                    -32.20 dBm
   Ref   35 dBm    Att  50 dB  SWT 300 ms         197.836538462 kHz
```
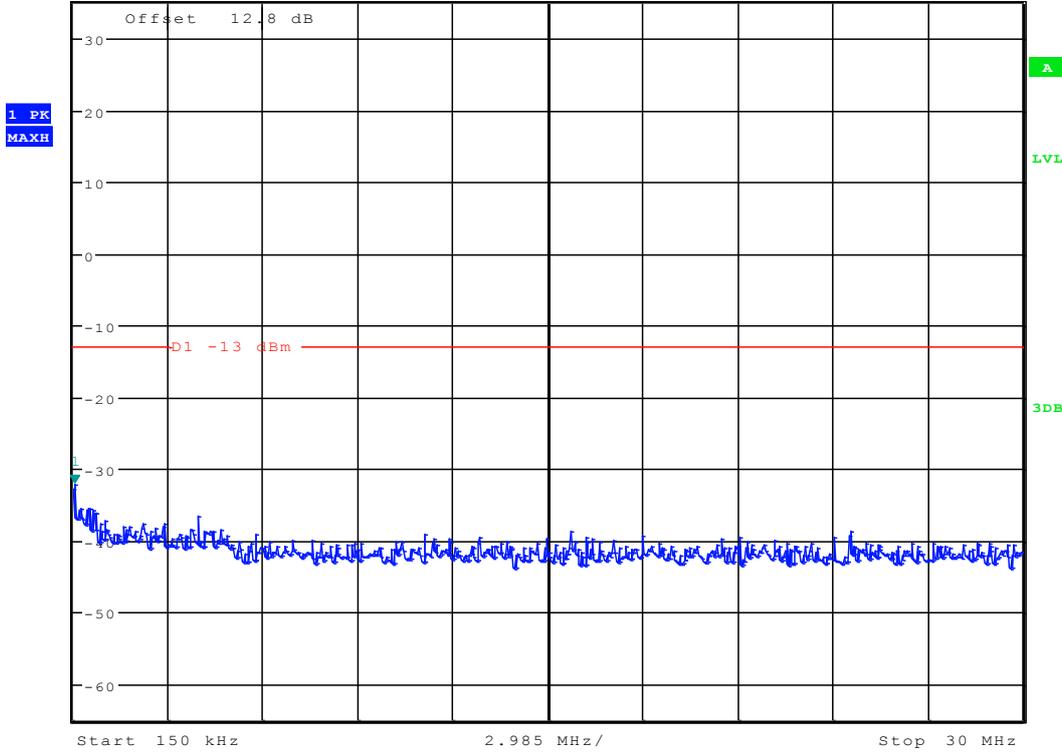
Date: 18.APR.2012 13:41:55
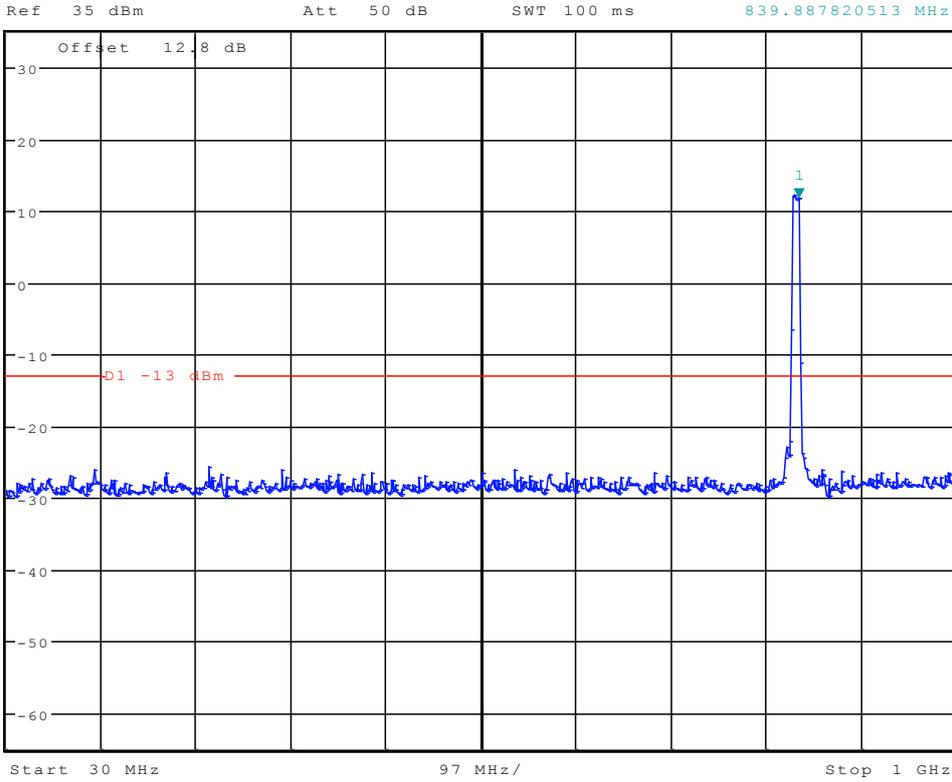
Date: 18.APR.2012 13:41:22

Date: 18.APR.2012 13:40:09

3.1.3.3 Channel = T

3.1.3.3.1 QPSK/1RBs /RB #0

```
                                  * RBW  1 kHz           Marker 1 [T1 ]
                                  * VBW 10 kHz                    -33.38 dBm
        Ref   35 dBm    Att  50 dB   SWT 145 ms        14.423076923 kHz

           Offset  12.8 dB

        -30                                                              A

        -20

        -10                                                             LVL

          0

        -10
             D1 -13 dBm

        -20                                                             3DB

        -30

        -40

        -50

        -60

        Start 9 kHz          14.1 kHz/              Stop 150 kHz
```
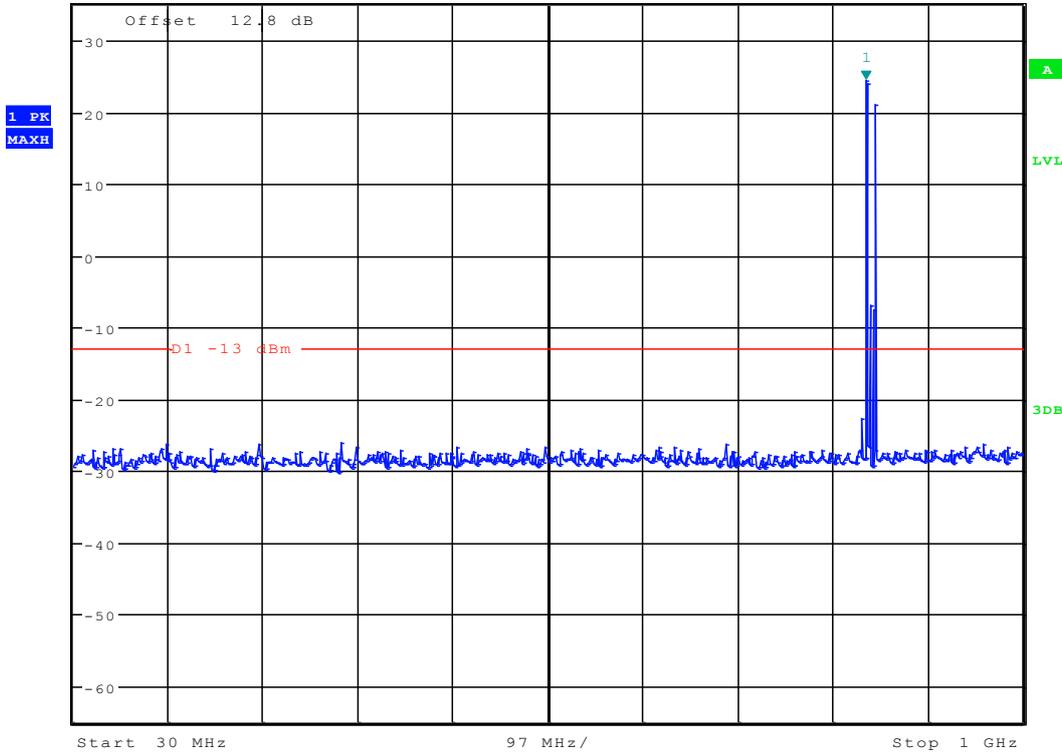
Date: 18.APR.2012 13:44:54

```
                                    * RBW 10 kHz      Marker 1 [T1 ]
                                    * VBW 30 kHz               -31.16 dBm
        Ref  35 dBm      Att  50 dB   SWT 300 ms      150.000000000 kHz
```
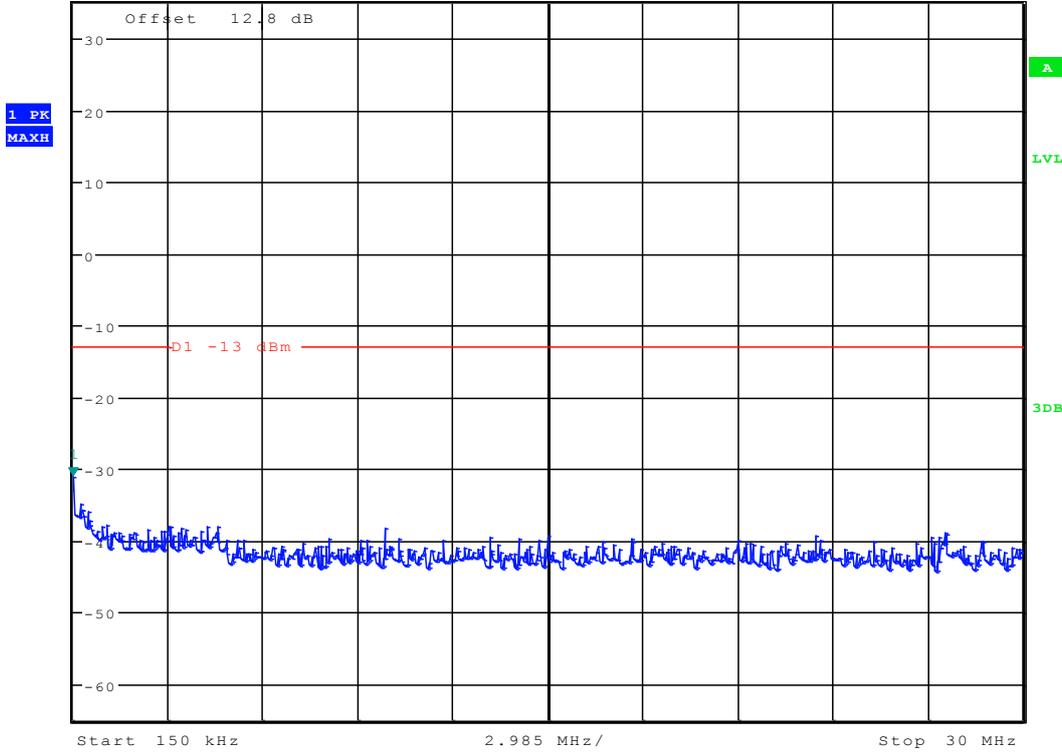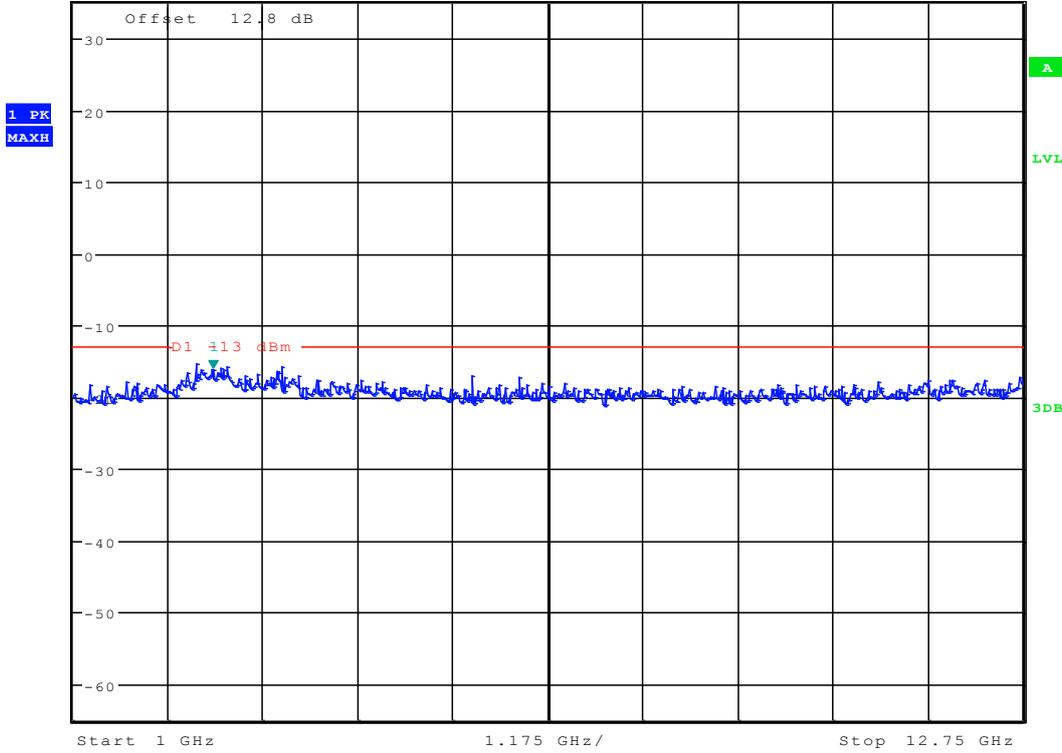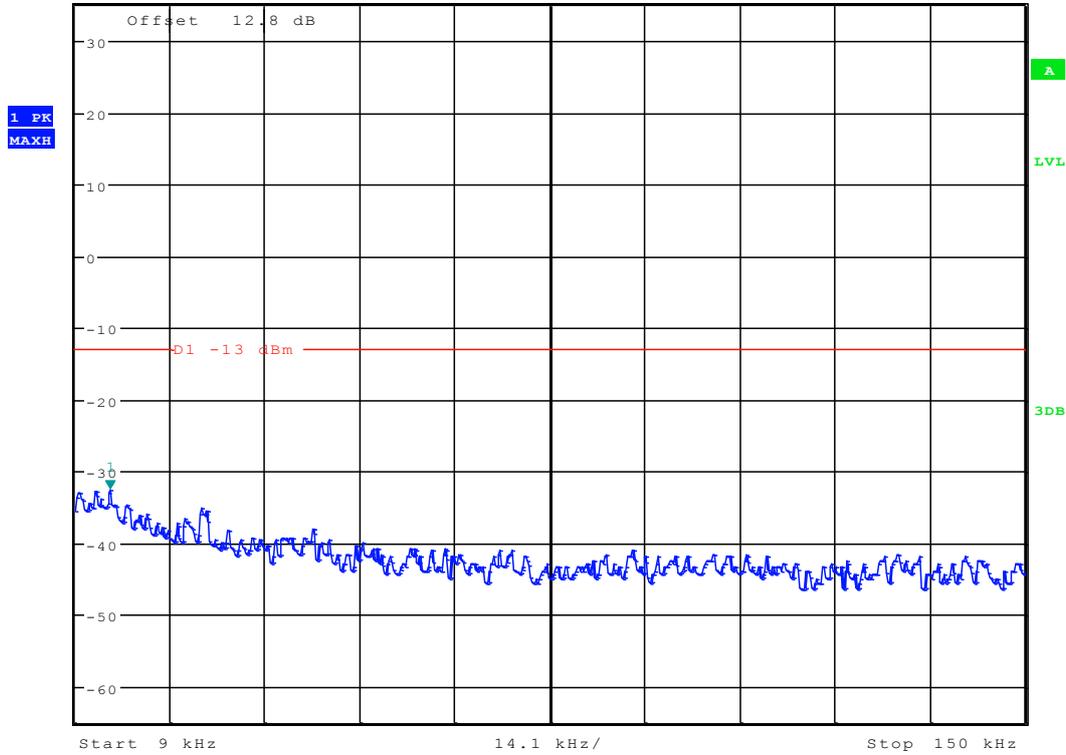


```
 Start 150 kHz           2.985 MHz/           Stop  30 MHz
```

Date: 18.APR.2012 13:47:01

Date: 18.APR.2012 13:47:49

Date: 18.APR.2012 13:49:00

3.1.3.3.2 QPSK/1RBs /RB #max

```
                                              * RBW  1 kHz       Marker 1 [T1 ]
                                              * VBW  10 kHz                -32.56 dBm
        Ref   35 dBm              Att   50 dB    SWT  145 ms       14.197115385 kHz
```
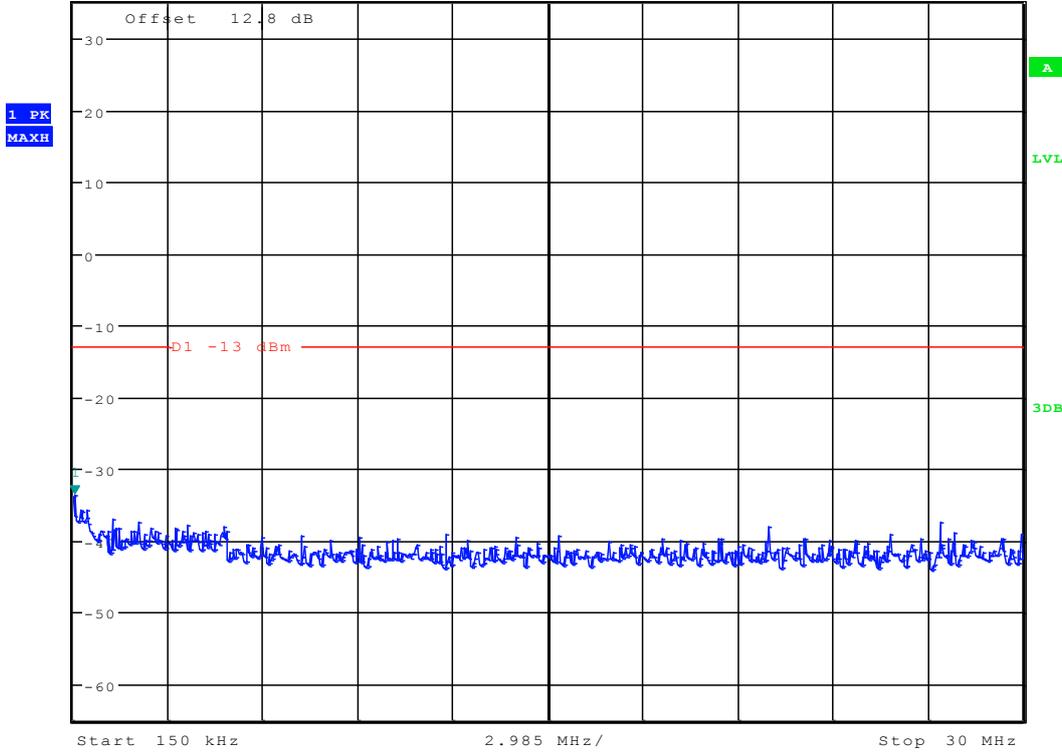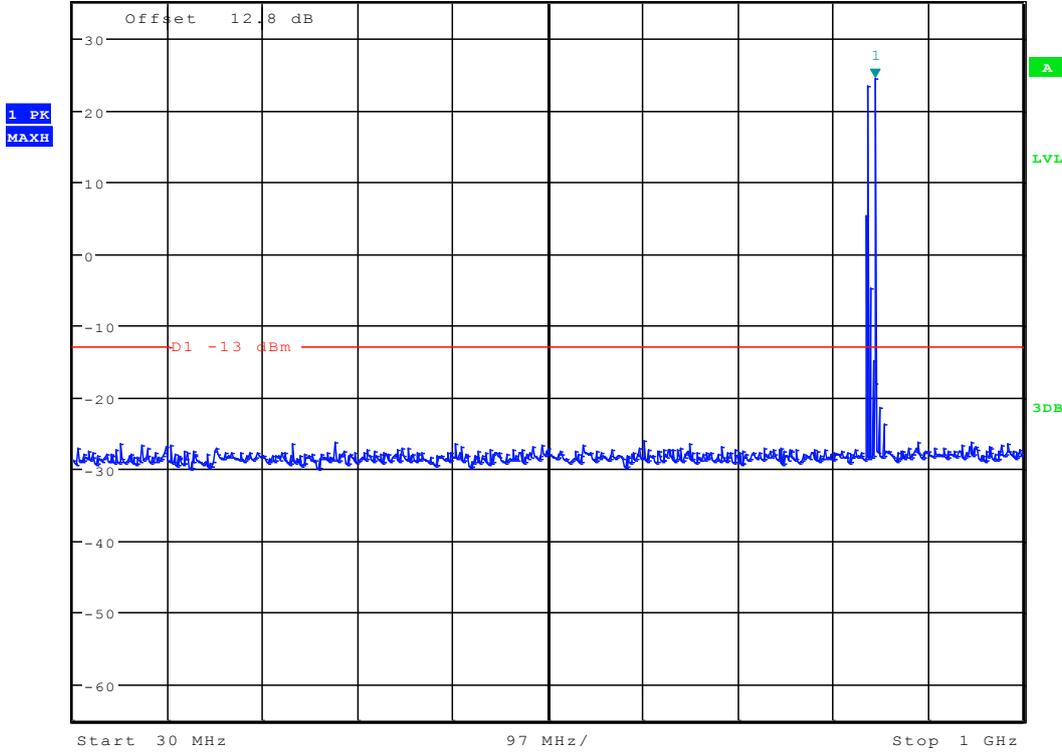


```
Date: 18.APR.2012  13:45:06
```

Date: 18.APR.2012 13:45:50

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz                    24.37 dBm
        Ref   35 dBm        Att  50 dB    SWT  100 ms      849.214743590 MHz
```
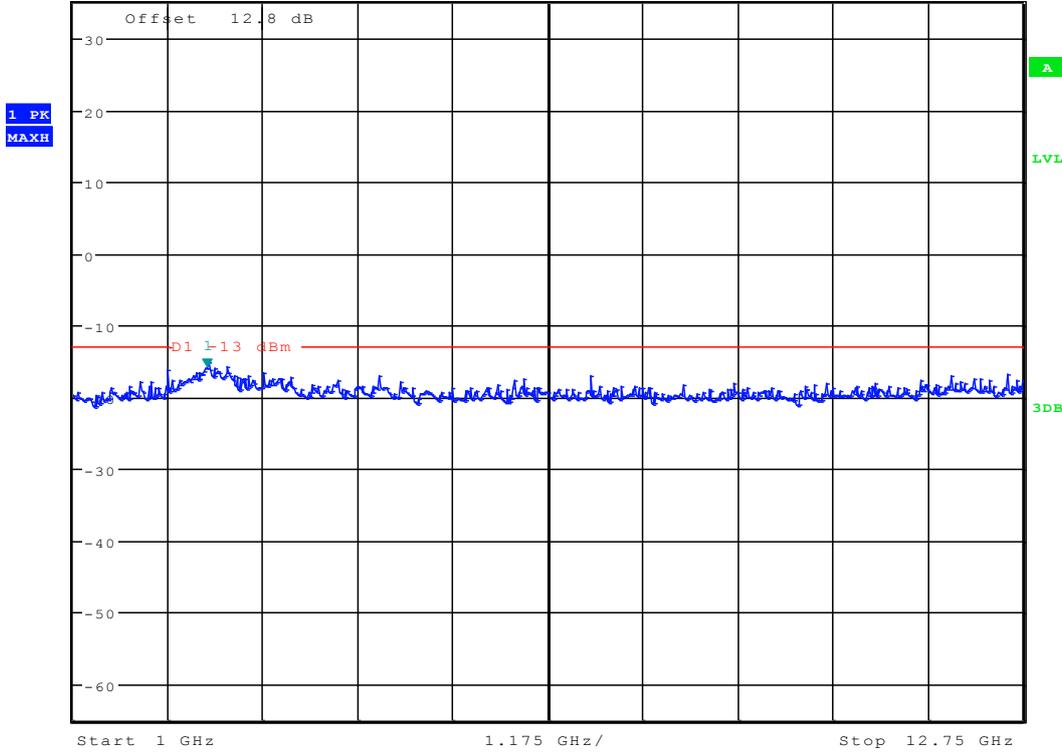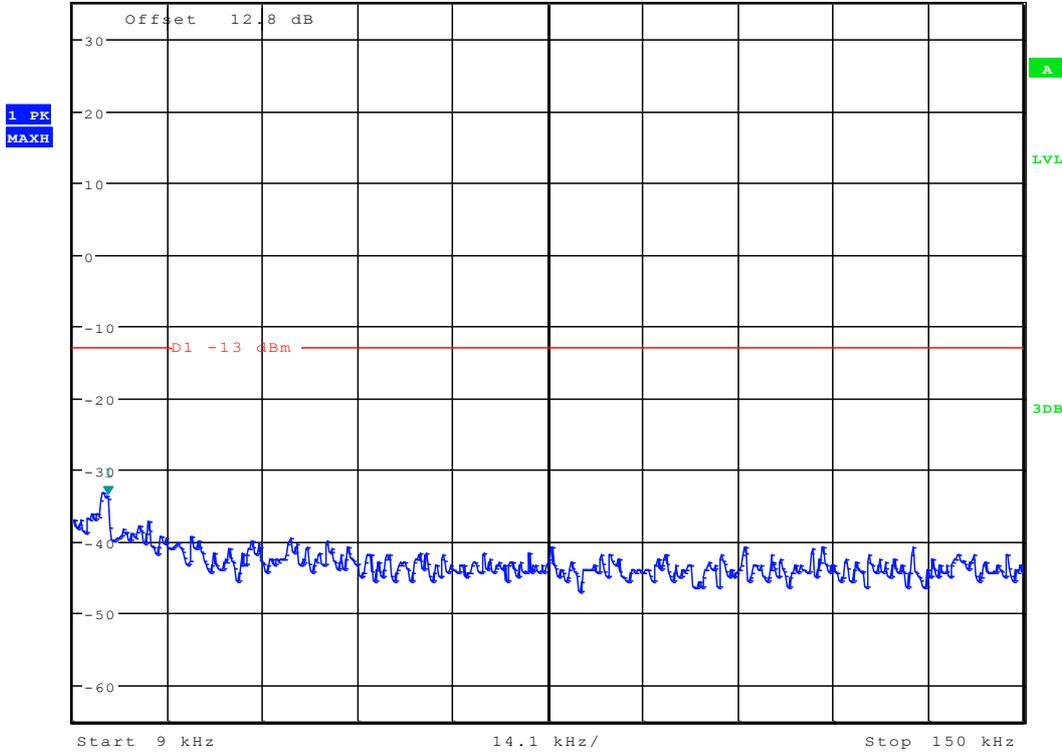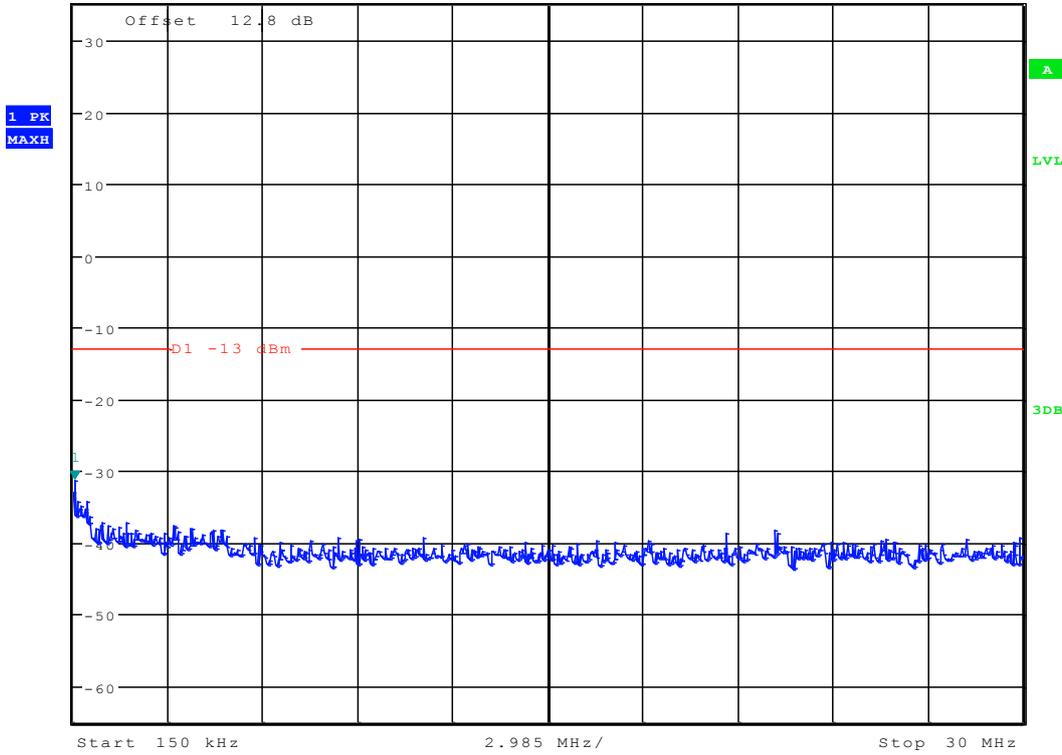
Date: 18.APR.2012 13:48:06

* RBW 1 MHz
* VBW 3 MHz   SWT 70 ms

Marker 1 [T1]
-15.90 dBm
2.657051282 GHz

Ref   35 dBm   Att   50 dB

Offset   12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

Date: 18.APR.2012 13:49:11

3.1.3.3.3 QPSK/full RBs

Date: 18.APR.2012 13:44:33

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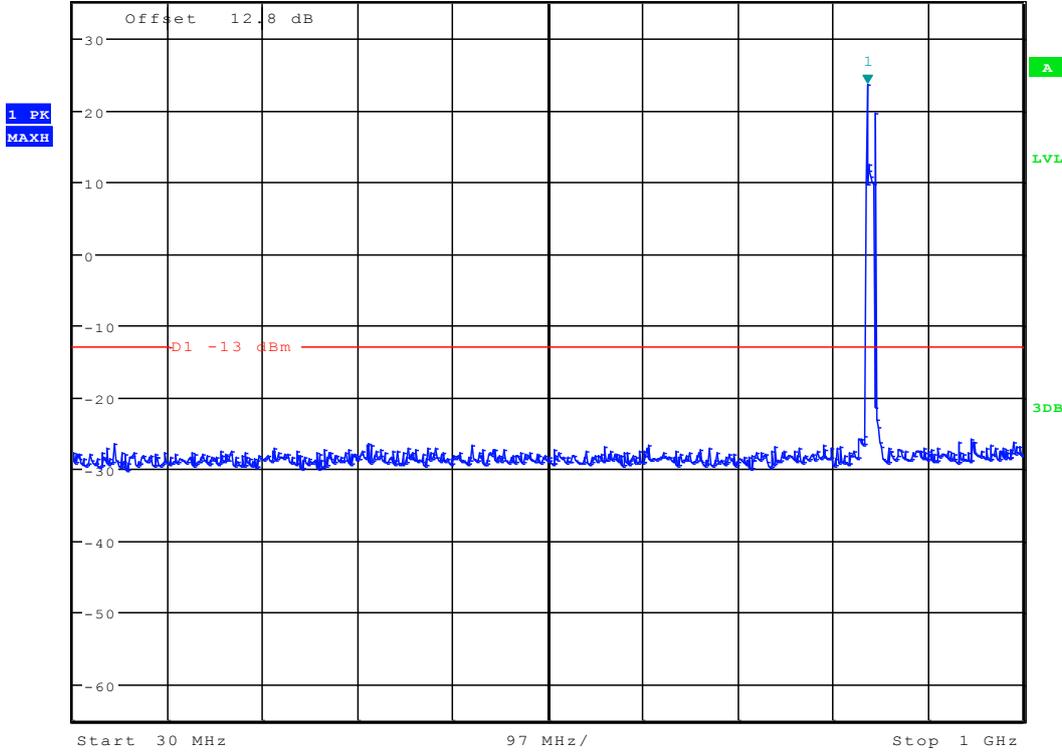
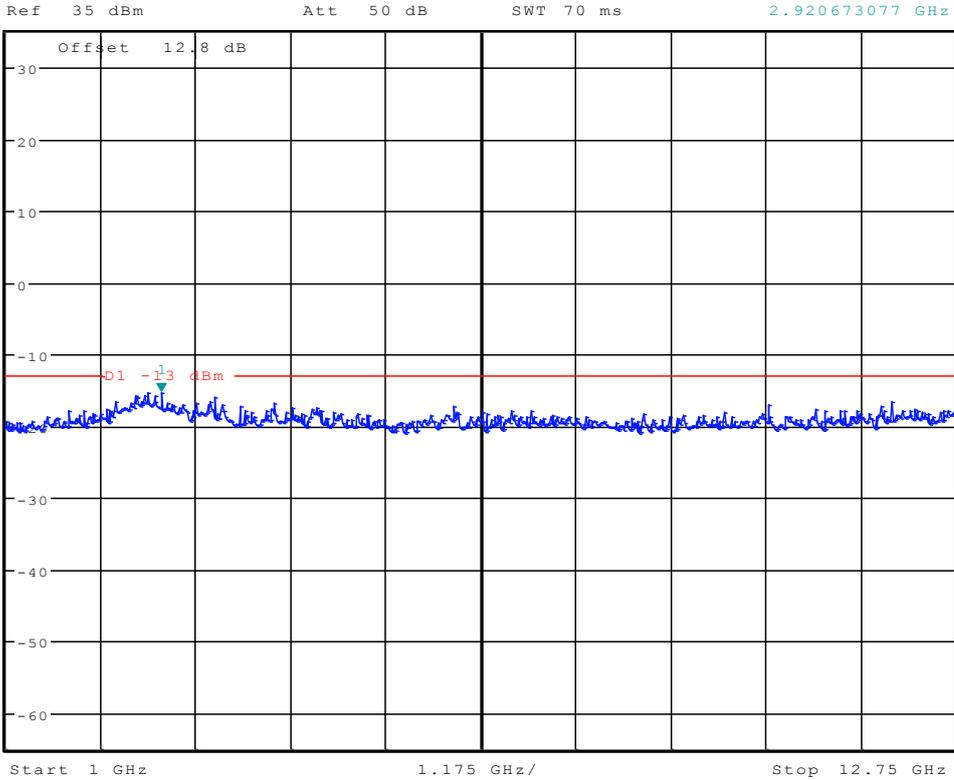* RBW 100 kHz   Marker 1 [T1]
* VBW 300 kHz   23.62 dBm
Ref 35 dBm   Att 50 dB   SWT 100 ms   841.442307692 MHz

Date: 18.APR.2012 13:48:20

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                -15.27 dBm
         Ref  35 dBm        Att  50 dB     SWT 70 ms    2.920673077 GHz
```


Date: 18.APR.2012 13:48:50

--END--