Appendix A

Transmitter Output Power
According to FCC Part 2.1046 & Part22.913

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Conducted Power of Transmitter

TEST CONDITIONS		RF Output Power (Conducted)					
		Channel128(L)		Channel192(M)		Channel251(H)	
		824.2MHz		837.0MHz		848.8MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		32.12	38.5	32.14	38.5	32.08	38.5
TM2		25.95	38.5	25.92	38.5	26.21	38.5

TEST CONDITIONS		Channel4132(L)		Channel4182(M)		Channel4233(H)	
		826.4MHz		836.4MHz		846.6MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM3		21.89	38.5	21.85	38.5	21.81	38.5
TM4	Case1	21.97	38.5	21.83	38.5	21.77	38.5
	Case2	21.12	38.5	21.15	38.5	21.16	38.5
	Case3	20.68	38.5	20.62	38.5	20.53	38.5
	Case4	20.56	38.5	20.65	38.5	20.66	38.5
TM5	Case1	21.08	38.5	20.96	38.5	20.88	38.5
	Case2	20.22	38.5	20.07	38.5	19.99	38.5
	Case3	20.09	38.5	19.97	38.5	19.92	38.5
	Case4	19.94	38.5	19.79	38.5	19.77	38.5
	Case5	21.16	38.5	21.01	38.5	20.94	38.5

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Effective Radiated Power of Transmitter (ERP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
TM1	824.2	29.02	Dipole Ant.	32.47	-2.75	0.6	29.12	38.5	Pass
TM1	837.0	29.04	Dipole Ant.	32.59	-2.87	0.6	29.12	38.5	Pass
TM1	848.8	28.98	Dipole Ant.	32.38	-2.85	0.6	28.93	38.5	Pass
TM2	824.2	22.85	Dipole Ant.	26.22	-2.75	0.6	22.87	38.5	Pass
TM2	837.0	22.82	Dipole Ant.	26.32	-2.87	0.6	22.85	38.5	Pass
TM2	848.8	23.11	Dipole Ant.	26.6	-2.85	0.6	23.15	38.5	Pass
TM3	826.4	18.79	Dipole Ant.	22.19	-2.75	0.6	18.84	38.5	Pass
TM3	836.4	18.75	Dipole Ant.	22.24	-2.87	0.6	18.77	38.5	Pass
TM3	846.6	18.71	Dipole Ant.	22.23	-2.85	0.6	18.78	38.5	Pass

Note: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd]

b, SGP=Signal Generator Level

---The END---

Appendix B

Modulation Characteristics
According to FCC Part 2.1047 & Part22 Subpart H

Channel 192（TM1:GPRS/GSM）

Report No:
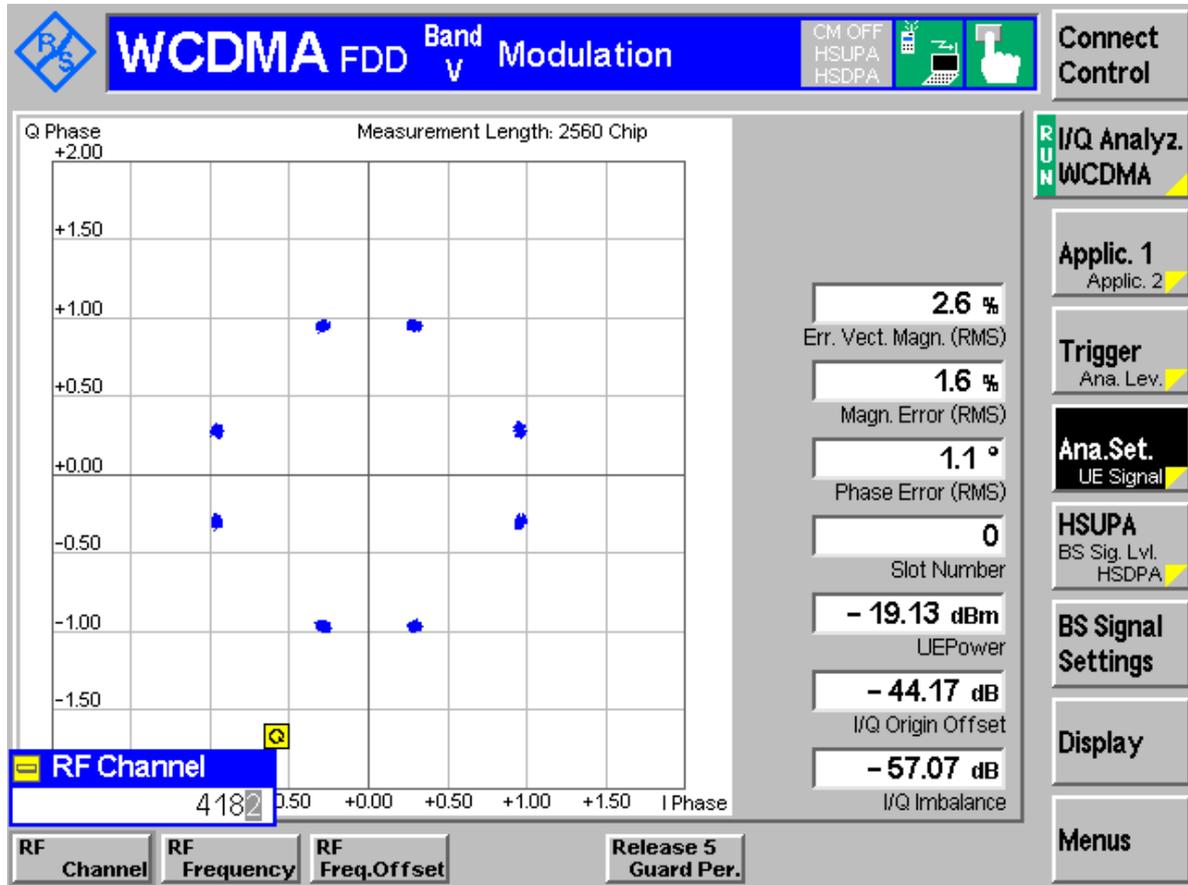SYBH(Z-RF)026082012-2001

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Page2, Total4
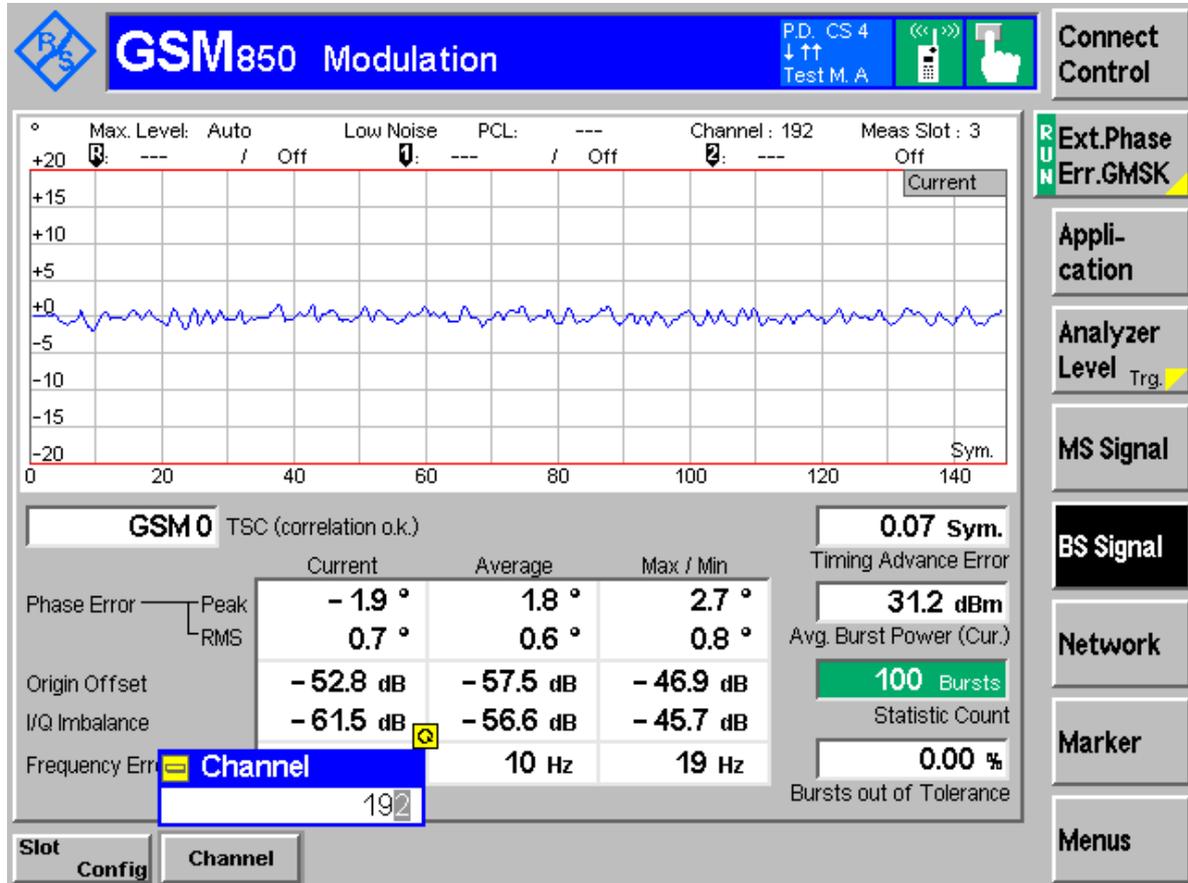
Channel 192（TM2:EDGE）
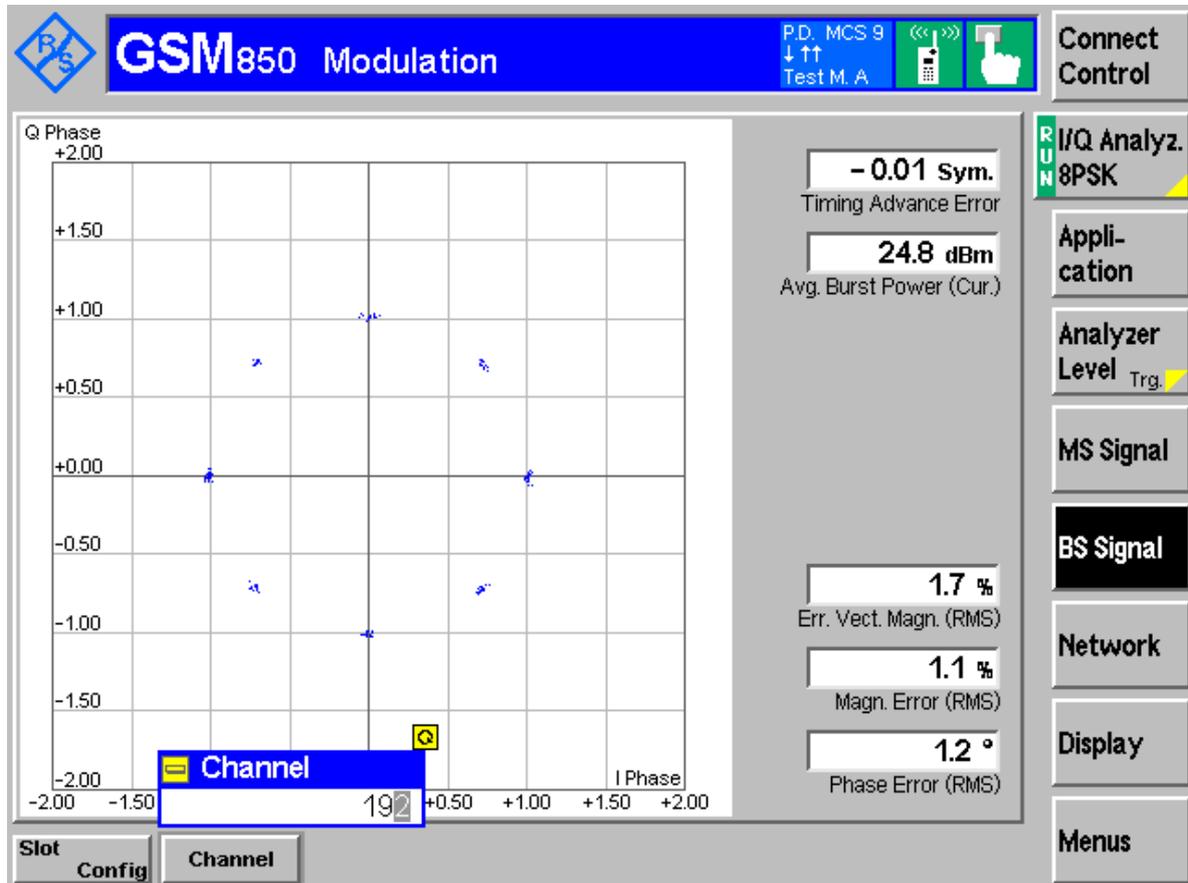
Channel 4182（TM3: WCDMA）

-----------------------------The END-----------------------------

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Appendix C

Occupied Bandwidth
According to FCC Part 2.1049 & Part 22 Subpart H

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Result Table

Table 1   Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [kHz]	Verdict
TM1	128	246.79	Pass
	192	250.00	Pass
	251	246.79	Pass
TM2	128	245.19	Pass
	192	251.60	Pass
	251	238.78	Pass
Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM3	4132	4.15	Pass
	4182	4.18	Pass
	4233	4.16	Pass

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Channel 128 (TM1:GPRS/GSM)


```
* RBW  3 kHz              Marker 1 [T1 ]
* VBW  10 kHz                      24.34 dBm
Ref  35 dBm      Att  30 dB   SWT  115 ms    824.183974359 MHz

    Offset  12.9 dB                    OBW246.794871795 kHz
                                       Temp 1 [T1 OBW]
                          1                    9.22 dBm
                                       824.076602564 MHz
                                       Temp 2 [T1 OBW]
                                               8.14 dBm
                                       824.323397436 MHz
```

Center 824.2 MHz   100 kHz/   Span 1 MHz
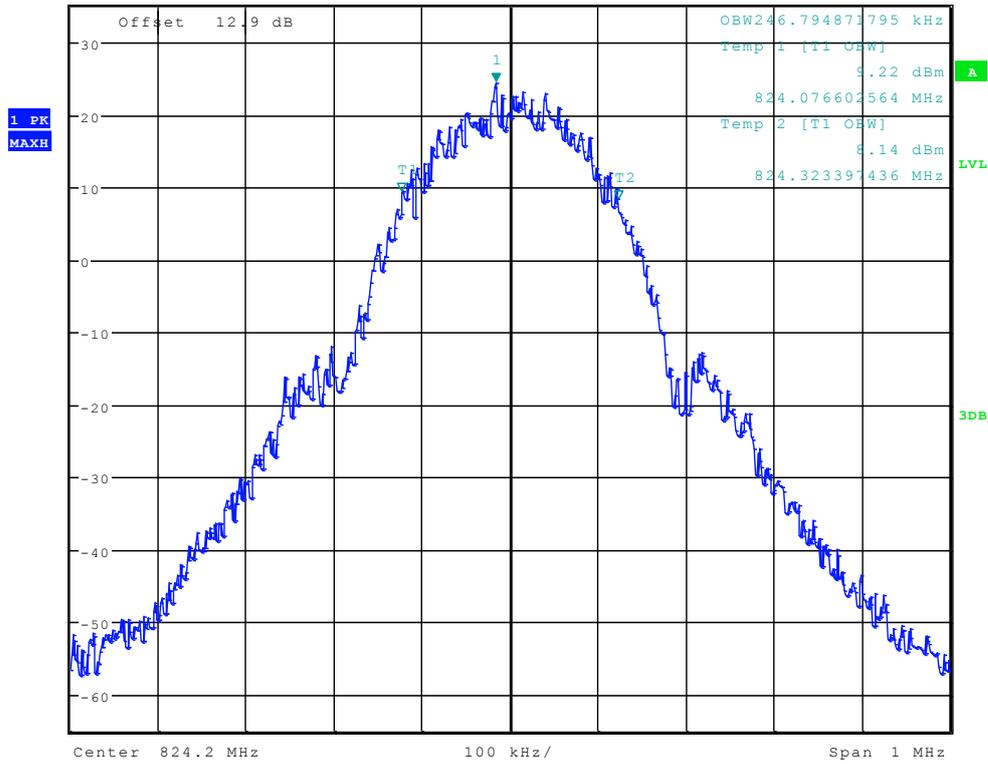
Date: 29.AUG.2012 09:53:13

Channel 128 (TM2:EDGE)
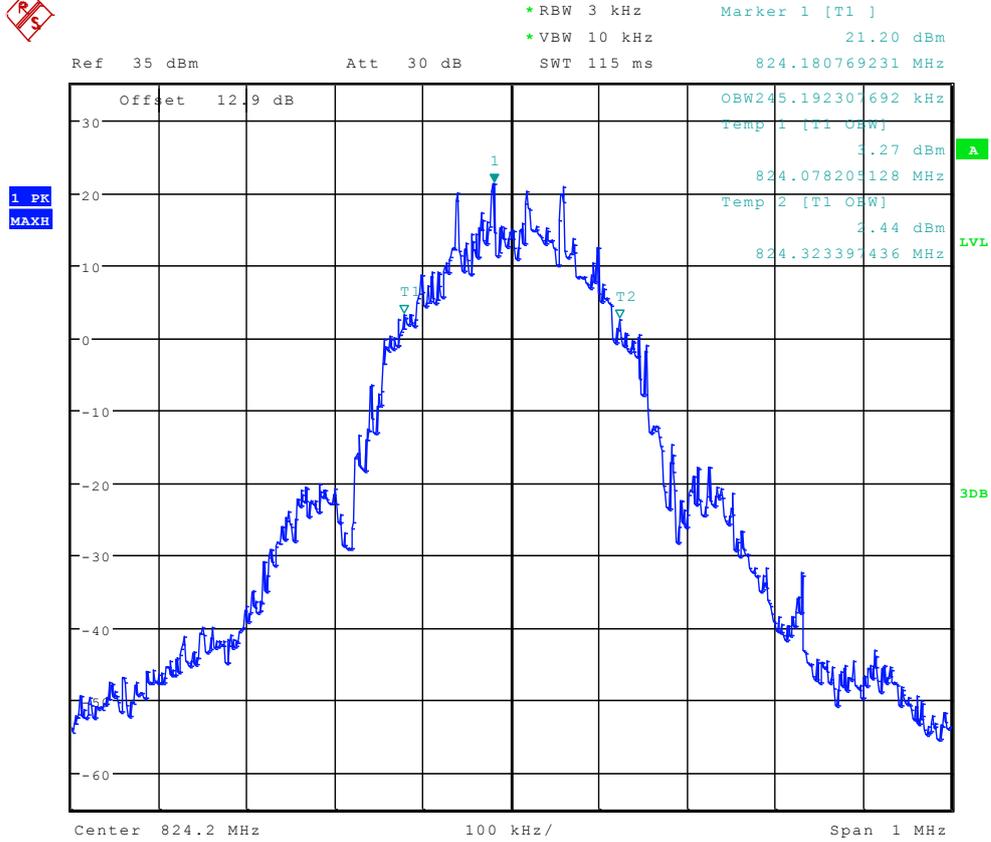
Date: 29.AUG.2012 10:03:07

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Channel 4132 (TM3: WCDMA)


```
                                      * RBW  50 kHz        Marker 1 [T1 ]
                                      * VBW  500 kHz                13.55 dBm
        Ref  35 dBm          Att  30 dB    SWT 5 ms        825.951282051 MHz

          Offset  12.9 dB                              OBW  4.150641026 MHz
      30                                               Temp 1 [T1 OBW]
                                                                  4.83 dBm
      20                                               824.332692308 MHz
  1 PK                                                 Temp 2 [T1 OBW]
  MAXH                                        1                   3.22 dBm
      10                                               828.483333333 MHz

       0

     -10

     -20

     -30

     -40

     -50

     -60

    Center  826.4 MHz               1 MHz/              Span  10 MHz
```
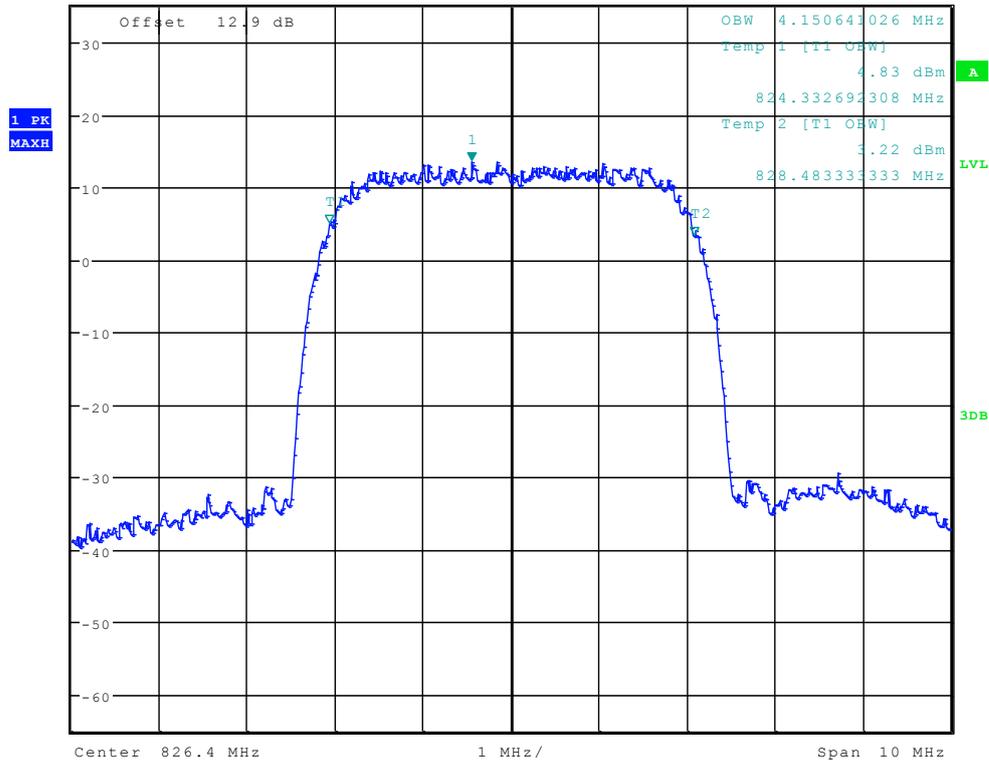
Date: 29.AUG.2012 10:07:33

Channel 192 (TM1:GPRS/GSM)


```
                                    *RBW  3 kHz      Marker 1 [T1 ]
                                    *VBW  10 kHz                23.02 dBm
        Ref   35 dBm       Att  30 dB      SWT  115 ms     837.001602564 MHz

          Offset  12.9 dB                          OBW250.000000000 kHz
        30                                         Temp 1 [T1 OBW]
                                                              8.22 dBm
                                                       836.875000000 MHz
 1 PK   20                                         Temp 2 [T1 OBW]
 MAXH                                                         8.81 dBm
        10                    T1        T2              837.125000000 MHz

         0

       -10

       -20

       -30

       -40

       -50

       -60

        Center  837 MHz            100 kHz/              Span  1 MHz
```
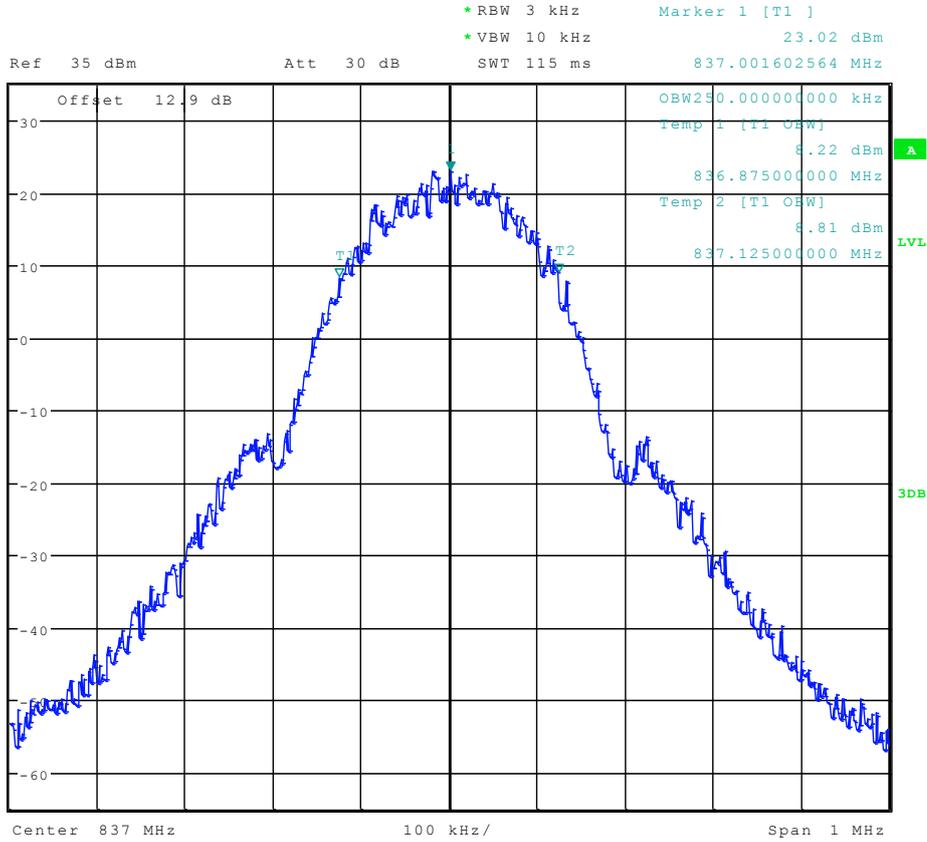
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Channel 192 (TM2:EDGE)

Date: 29.AUG.2012 10:03:20

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Channel 4182 (TM3: WCDMA)

Date: 29.AUG.2012 10:07:47

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Page8, Total11
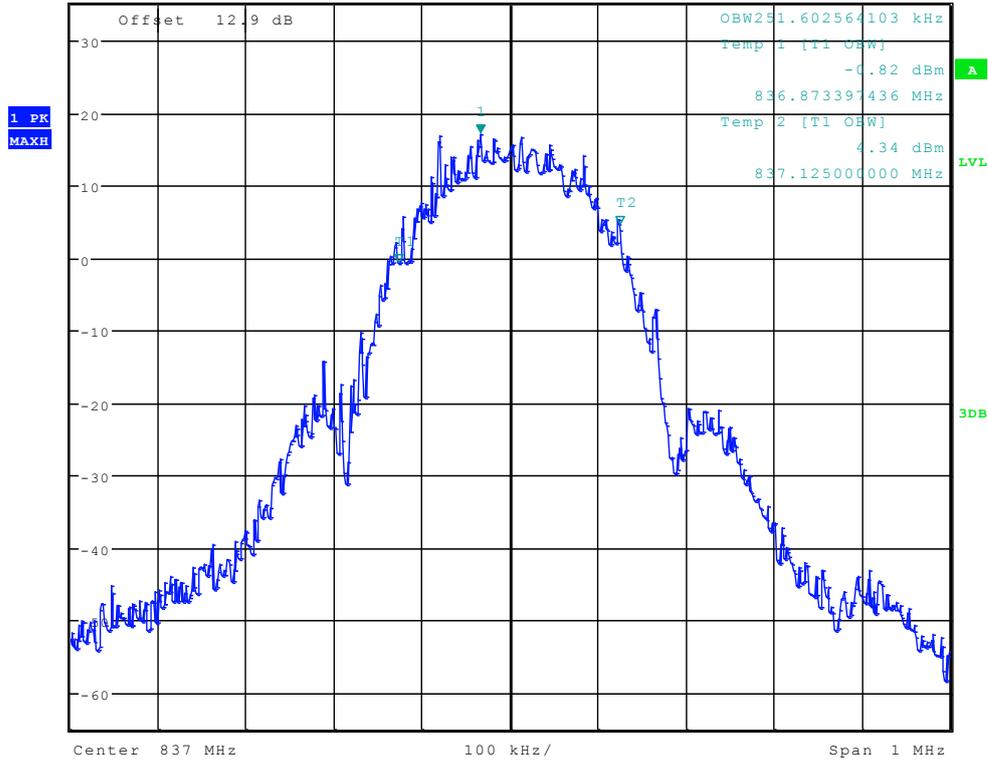
Channel 251（TM1:GPRS/GSM）

Date: 29.AUG.2012 09:53:40

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Channel 251 (TM2:EDGE)


```
                                    * RBW  3 kHz       Marker 1 [T1 ]
                                    * VBW 10 kHz                19.56 dBm
        Ref  35 dBm        Att  30 dB    SWT 115 ms     848.743910256 MHz
          Offset  12.9 dB                           OBW238.782051282 kHz
         30                                          Temp 1 [T1 OBW]
                                                            5.37 dBm
                                                     848.681410256 MHz
         20                          1               Temp 2 [T1 OBW]
                                                            4.43 dBm
                                                     848.920192308 MHz
         10
          0
        -10
        -20
        -30
        -40
        -50
        -60
     Center  848.8 MHz         100 kHz/            Span  1 MHz
```

Date: 29.AUG.2012 10:03:34

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Channel 4233 (TM3: WCDMA)


```
                                          * RBW  50 kHz      Marker 1 [T1 ]
                                          * VBW  500 kHz              14.02 dBm
            Ref  35 dBm           Att  30 dB    SWT 5 ms       845.654487179 MHz

               Offset  12.9 dB                            OBW  4.166666667 MHz
             30                                           Temp 1 [T1 OBW]
                                                                   4.56 dBm
             20                                            844.516666667 MHz
                                                          Temp 2 [T1 OBW]
                                                                   4.23 dBm
             10                                            848.683333333 MHz

              0

            -10

            -20

            -30

            -40

            -50

            -60

            Center  846.6 MHz              1 MHz/              Span  10 MHz
```

Date: 29.AUG.2012 10:08:00

--END--

Appendix D

Band Edges Compliance
According to FCC Part 2.1051 & Part 22 Subpart H

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Page1, Total7

TM1:GPRS/GSM
Left Edge
Channel 128
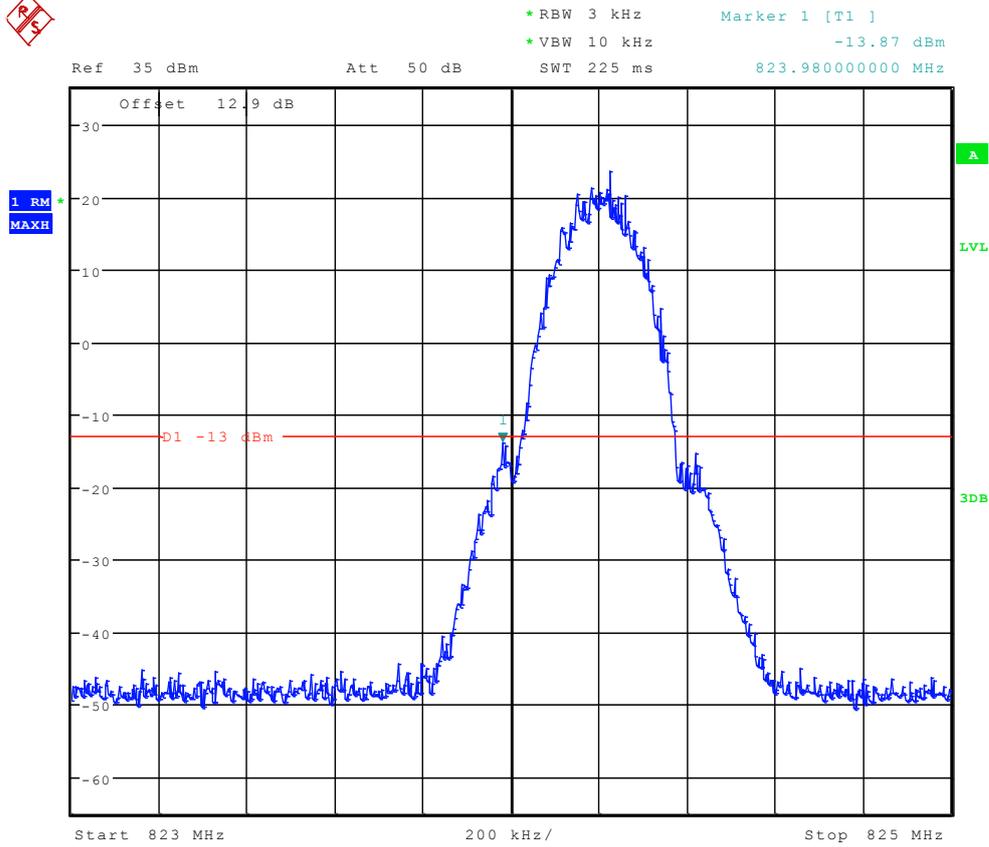
```
                                    * RBW 3 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz              -13.87 dBm
   Ref  35 dBm          Att  50 dB   SWT 225 ms     823.980000000 MHz
```

Offset 12.9 dB

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Page2, Total7

Right Edge
Channel 251


```
                                    * RBW  3 kHz      Marker 1 [T1 ]
                                    * VBW  10 kHz              -15.99 dBm
   Ref   35 dBm        Att  50 dB     SWT 225 ms      849.020000000 MHz
```

Date: 29.AUG.2012 09:57:48

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Page3, Total7
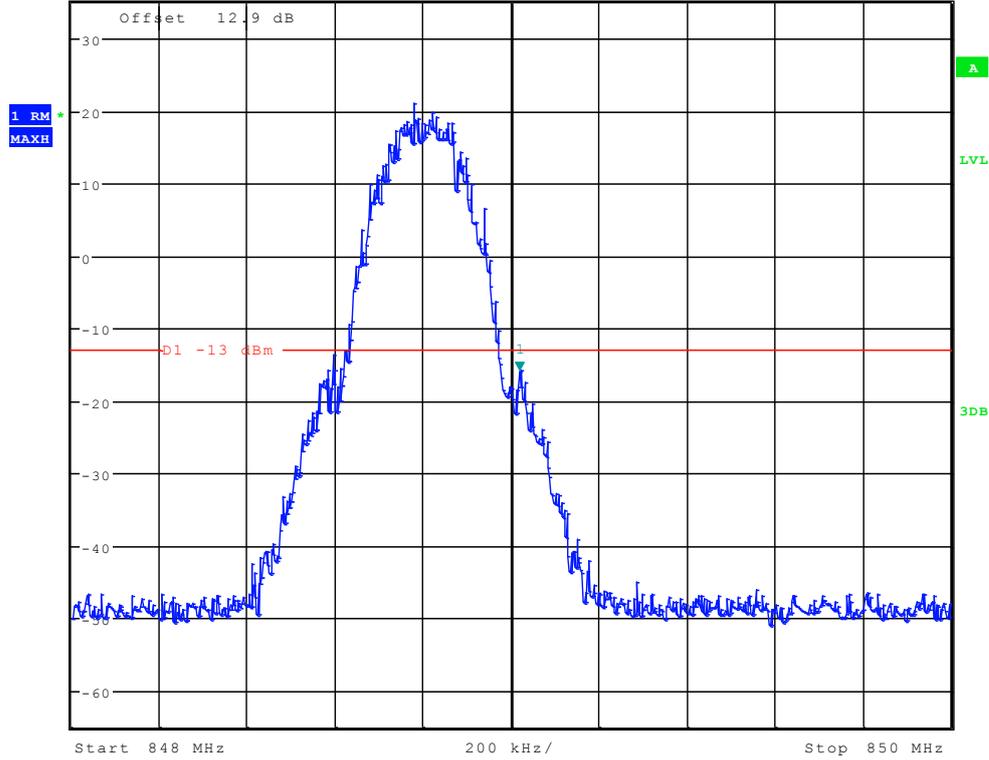
TM2:EDGE
Left Edge
Channel 128

		* RBW 3 kHz	Marker 1 [T1]
		* VBW 10 kHz	-19.99 dBm
Ref 35 dBm	Att 50 dB	SWT 225 ms	823.985000000 MHz

Offset 12.9 dB

A

1 RM *
MAXH

LVL

D1 -13 dBm

3DB

Start 823 MHz   200 kHz/   Stop 825 MHz

Date: 29.AUG.2012 10:02:29

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Right Edge
Channel 251

*RBW 3 kHz   Marker 1 [T1]
*VBW 10 kHz   -23.73 dBm
Ref 35 dBm   Att 50 dB   SWT 225 ms   849.000000000 MHz

Offset 12.9 dB

D1 -13 dBm

Start 848 MHz   200 kHz/   Stop 850 MHz

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TM3: WCDMA
Left Edge
Channel 4132
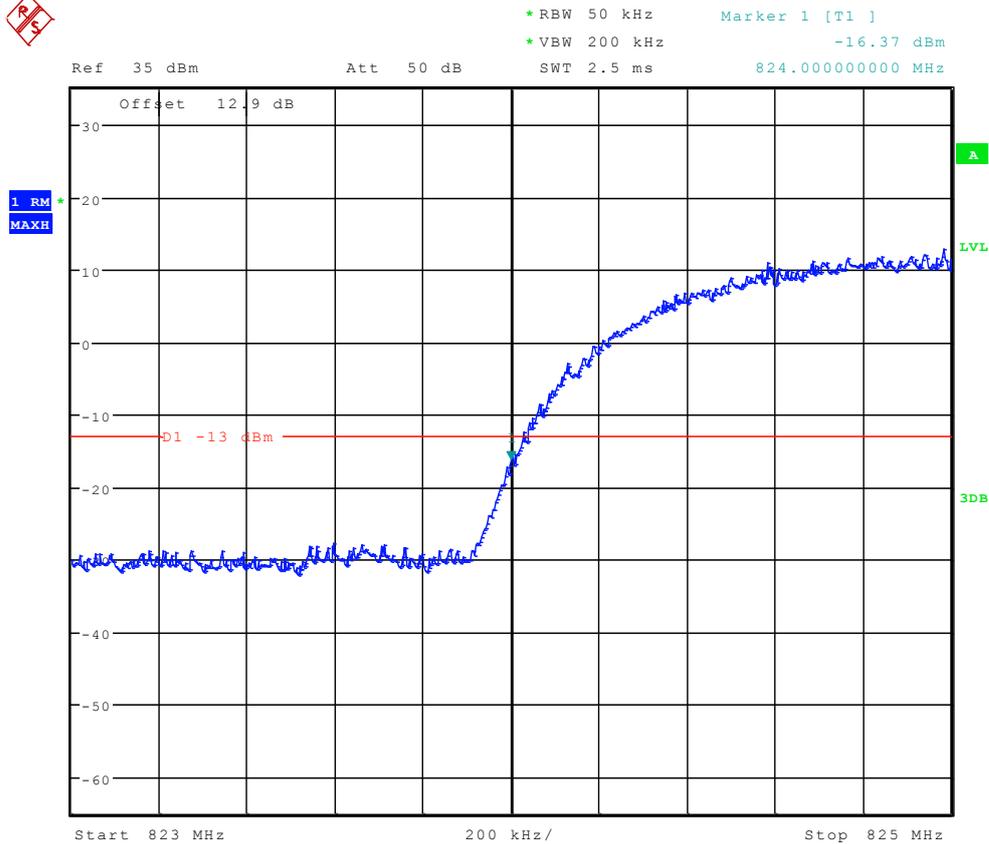
Date: 29.AUG.2012 10:08:15

Right Edge
Channel 4233


```
                                      *RBW 50 kHz      Marker 1 [T1 ]
                                      *VBW 200 kHz              -17.73 dBm
Ref  35 dBm            Att  50 dB     SWT 2.5 ms      849.000000000 MHz
   Offset  12.9 dB

 -30
                                                                          A
 -20
1 RM
MAXH                                                                    LVL
 10

  0

-10
     D1 -13 dBm
-20
                                                                        3DB
-30

-40

-50

-60
Start 848 MHz            200 kHz/            Stop 850 MHz
```

Date: 29.AUG.2012 10:08:28

--END--

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Page7, Total7
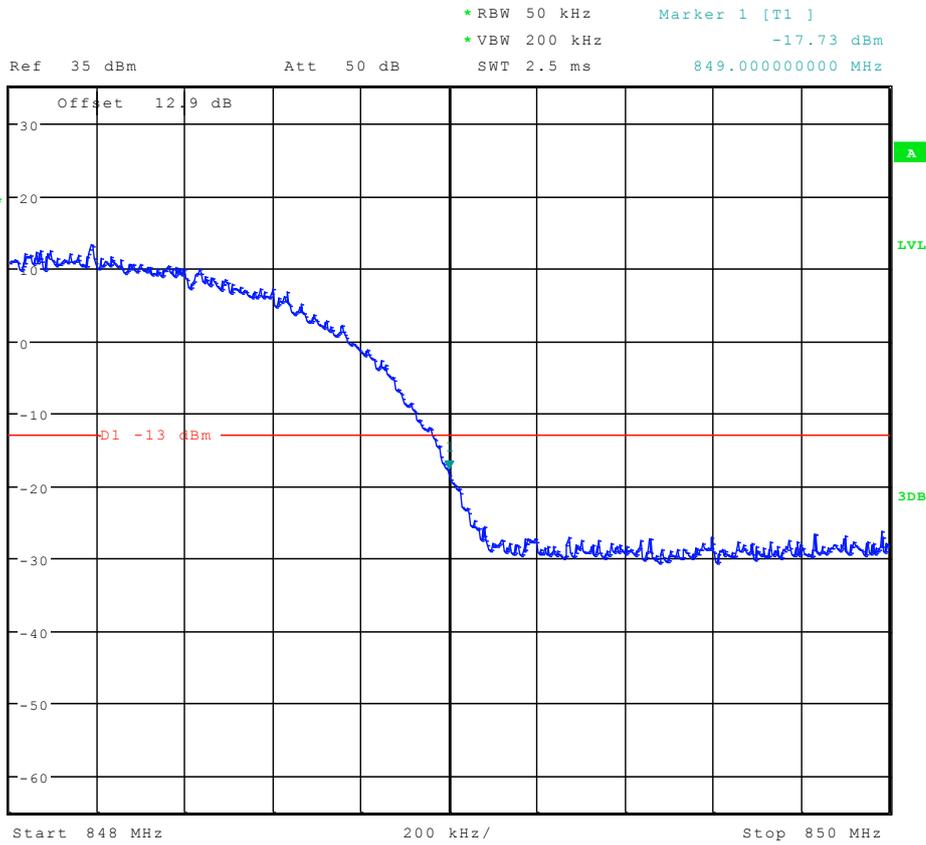
Appendix E

Spurious Emission at Antenna Terminal
According to FCC Part 2.1051 & Part 22 Subpart H

TM1:GPRS/GSM
Channel 128
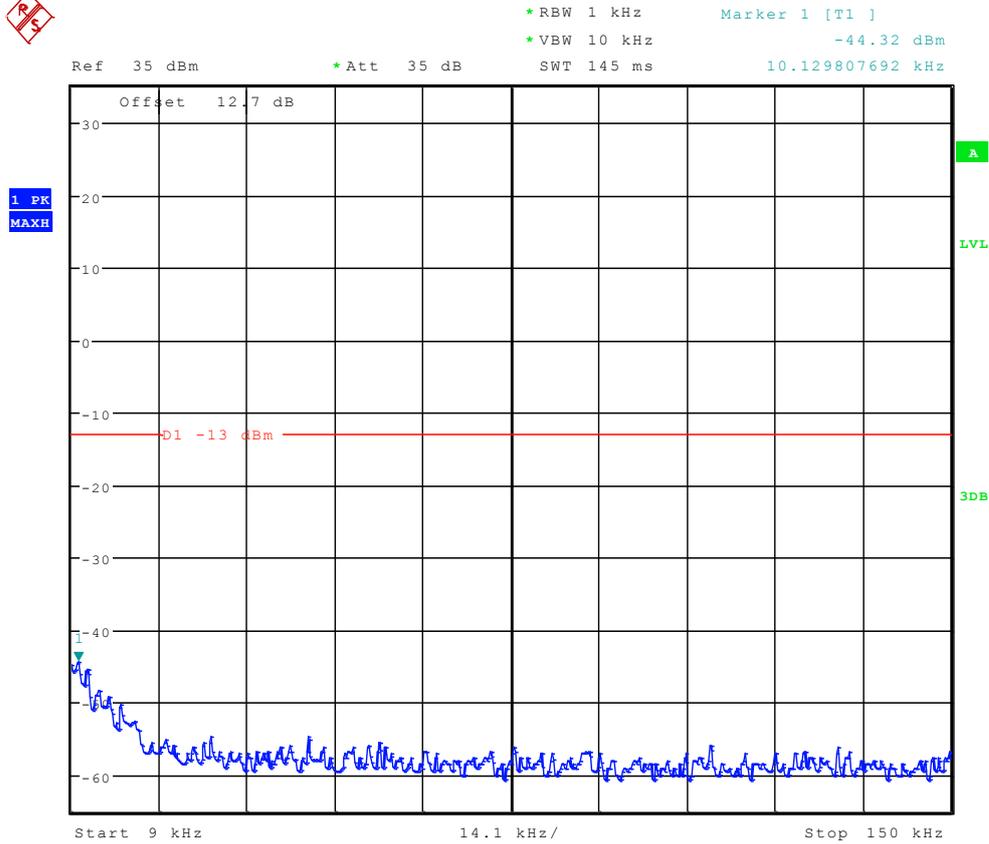

```
                                          * RBW  1 kHz      Marker 1 [T1 ]
                                          * VBW  10 kHz              -44.32 dBm
        Ref   35 dBm          * Att  35 dB   SWT  145 ms   10.129807692 kHz

        Offset  12.7 dB                                              A
      -30
1 PK
MAXH  -20                                                           LVL
      -10

       -0

      -10    D1 -13 dBm

      -20                                                           3DB

      -30

      -40

      -50

      -60

       Start  9 kHz          14.1 kHz/            Stop  150 kHz
```
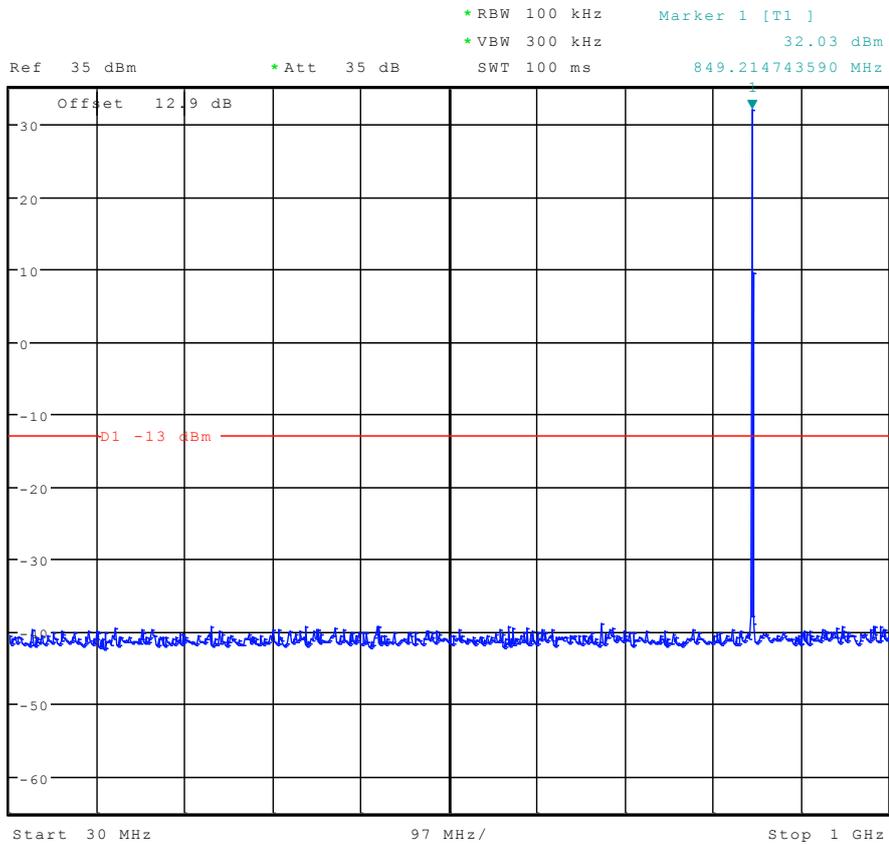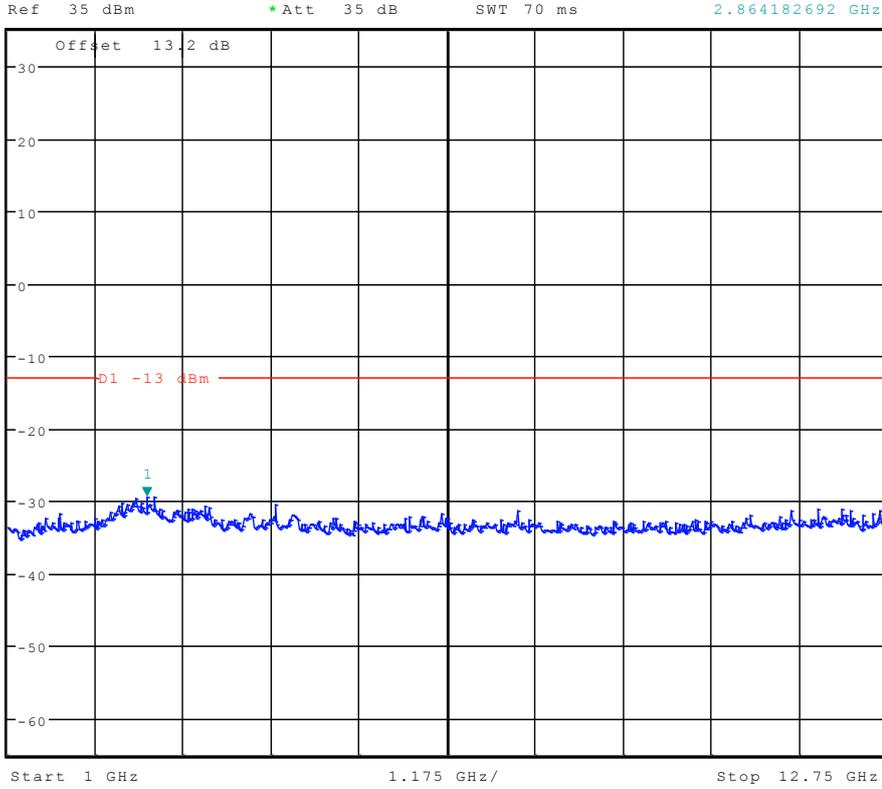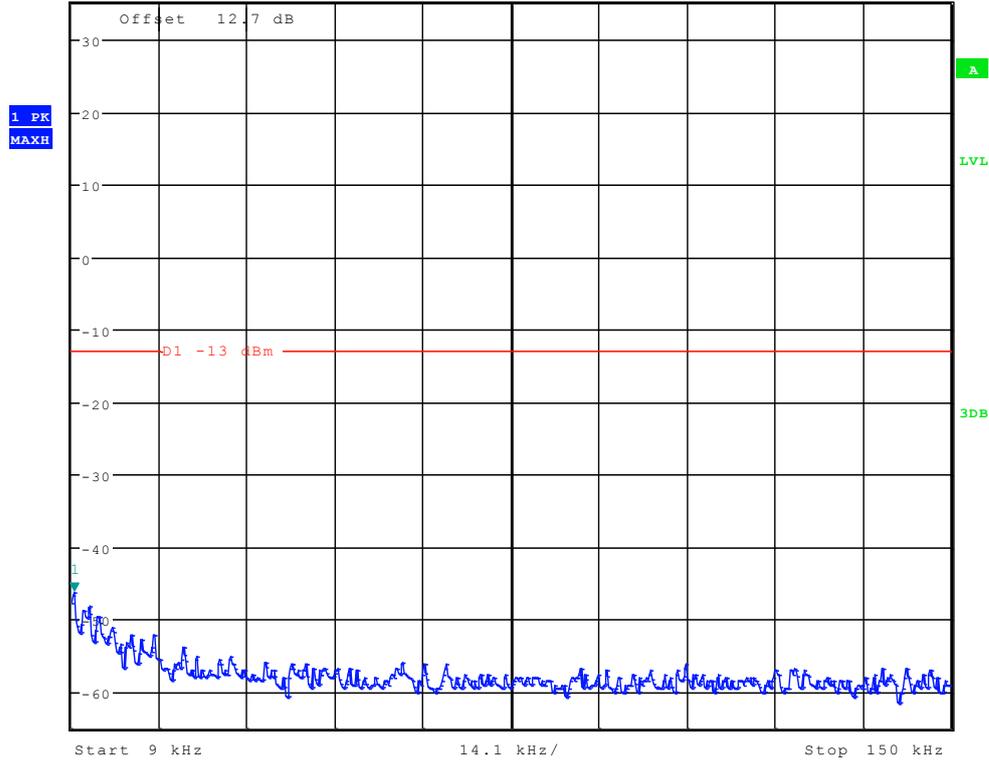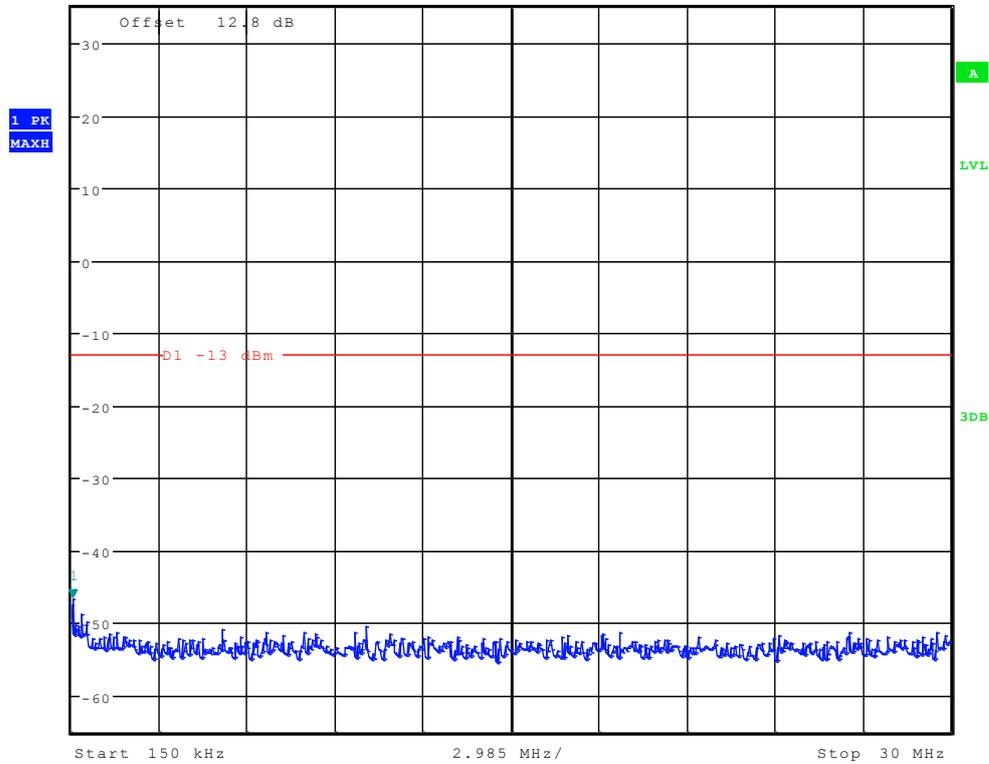
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Date: 29.AUG.2012 09:54:39

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*RBW 100 kHz   Marker 1 [T1]
*VBW 300 kHz   31.97 dBm
Ref 35 dBm   *Att 35 dB   SWT 100 ms   825.897435897 MHz

Offset 12.9 dB

1 PK
MAXH

D1 -13 dBm

A

LVL

3DB

Start 30 MHz   97 MHz/   Stop 1 GHz
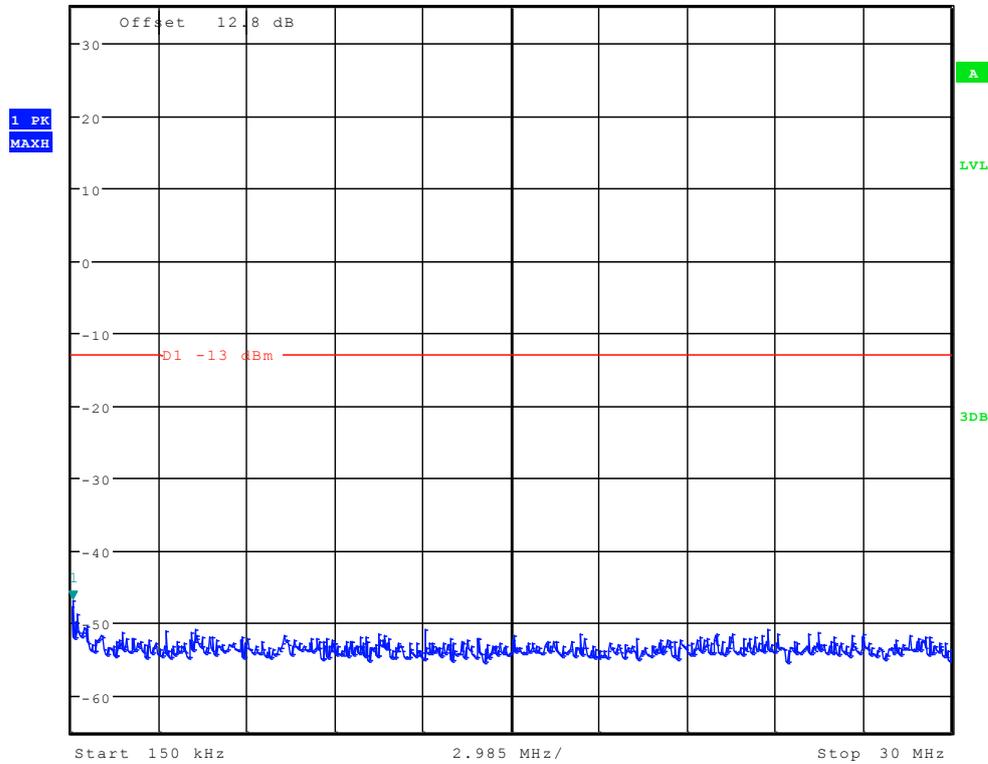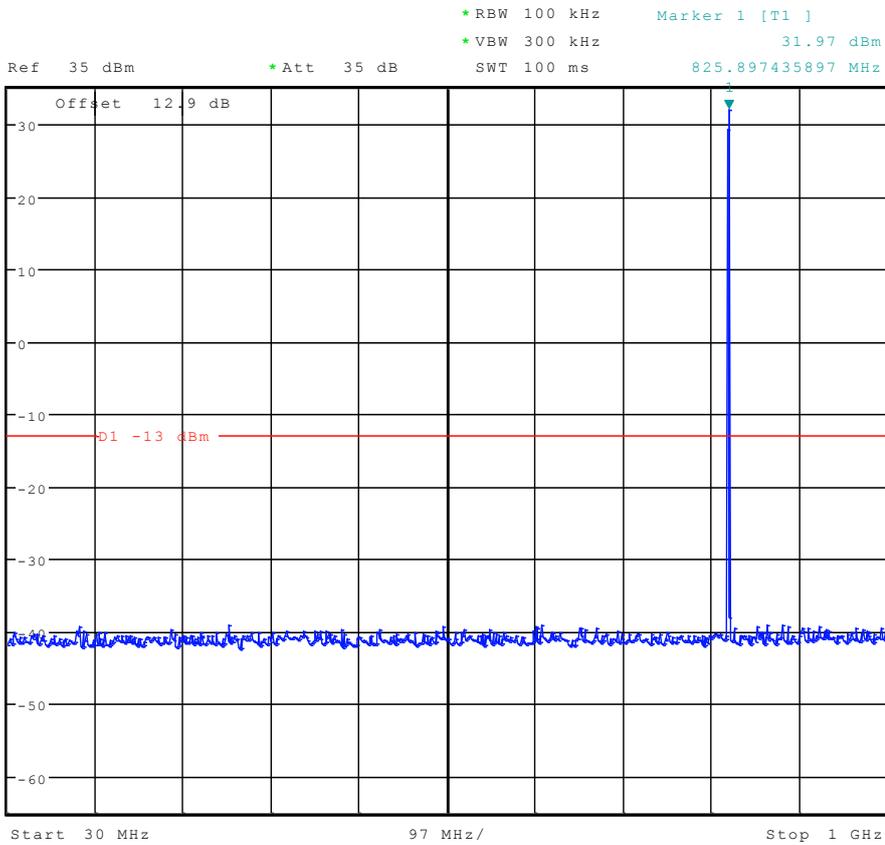
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```
                                        *RBW  1 MHz        Marker 1 [T1 ]
                                        *VBW  3 MHz                -29.40 dBm
        Ref  35 dBm        *Att  35 dB   SWT  70 ms        2.826522436 GHz
```
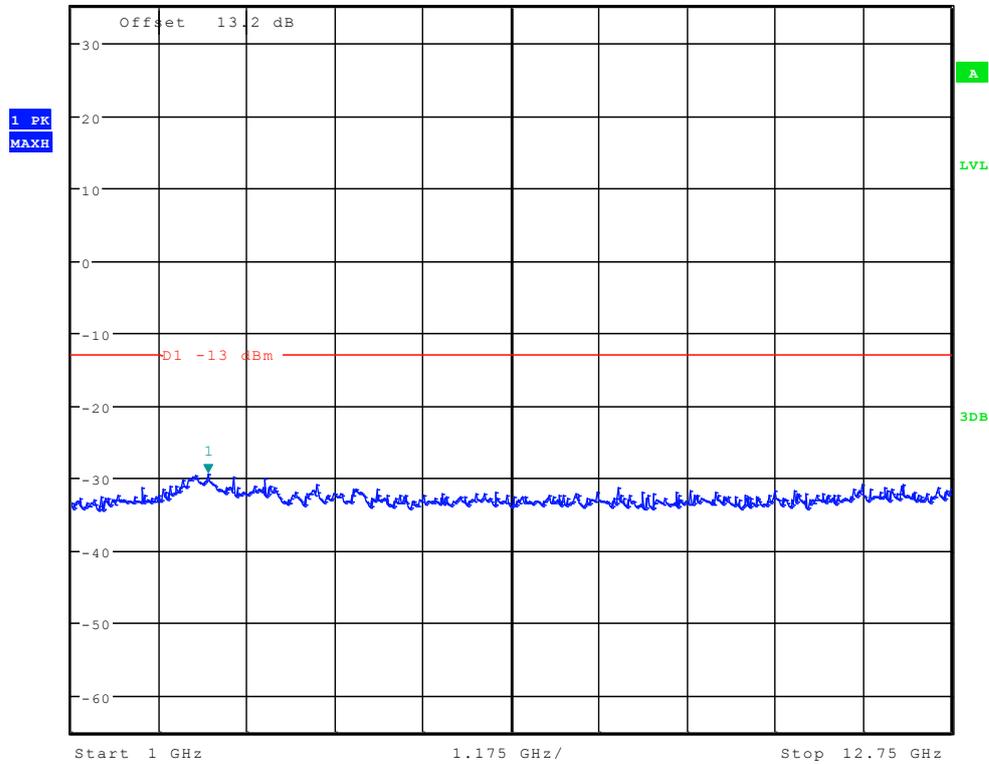
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Channel 192
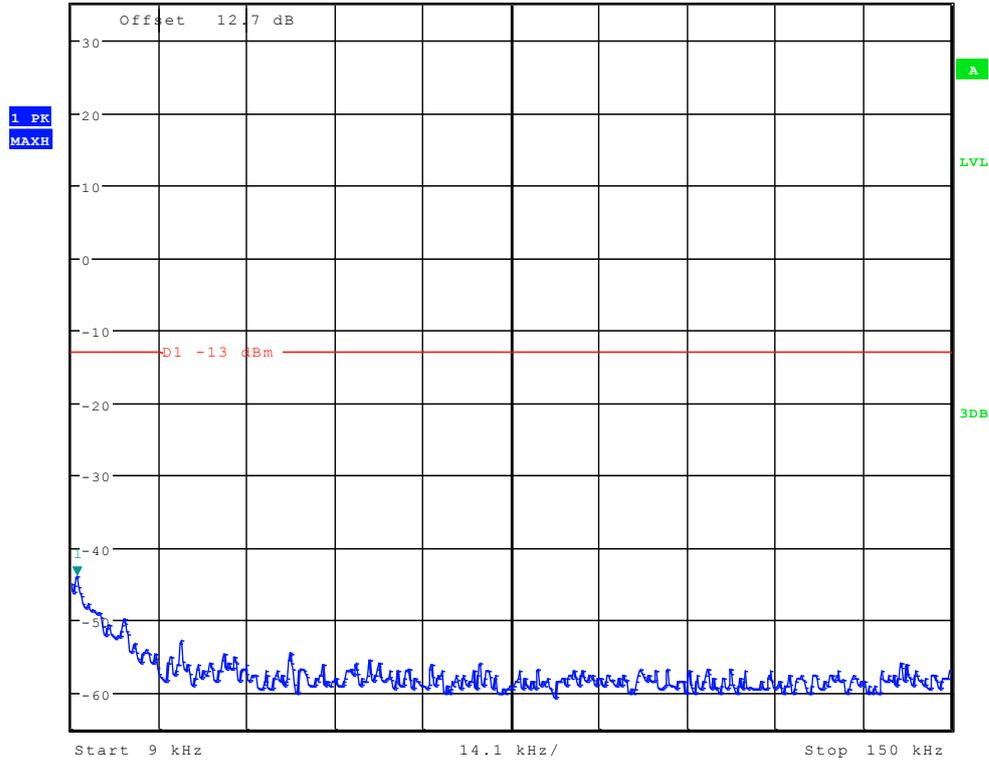
Date: 29.AUG.2012 09:54:09

	*RBW 10 kHz	Marker 1 [T1]	
	*VBW 30 kHz	-46.80 dBm	
Ref 35 dBm	*Att 35 dB SWT 300 ms	197.836538462 kHz	

Offset 12.8 dB

Start 150 kHz 2.985 MHz/ Stop 30 MHz

Date: 29.AUG.2012 09:54:53

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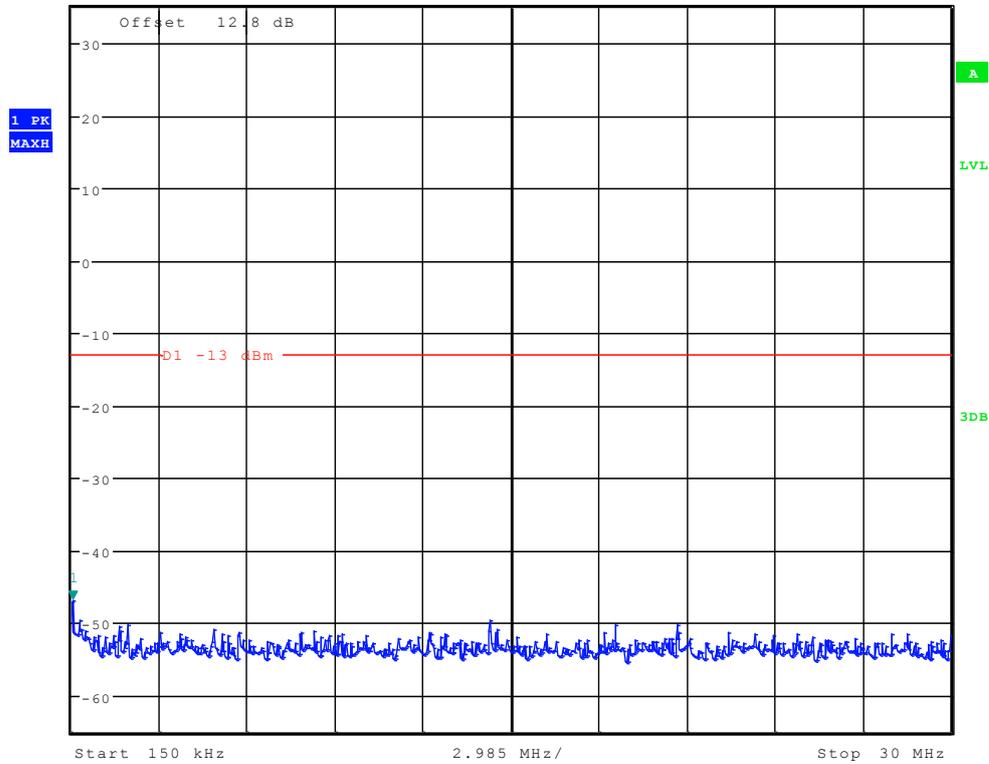
```
                                              *RBW  100 kHz        Marker 1 [T1 ]
                                              *VBW  300 kHz                 31.83 dBm
         Ref  35 dBm          *Att  35 dB     SWT  100 ms         838.333333333 MHz

           Offset  12.9 dB

         30

                                                                                    A

   1 PK
   MAXH   20
                                                                                   LVL

         10

          0

        -10   D1 -13 dBm

        -20
                                                                                   3DB

        -30

        -50

        -60

         Start  30 MHz                        97 MHz/                 Stop  1 GHz
```
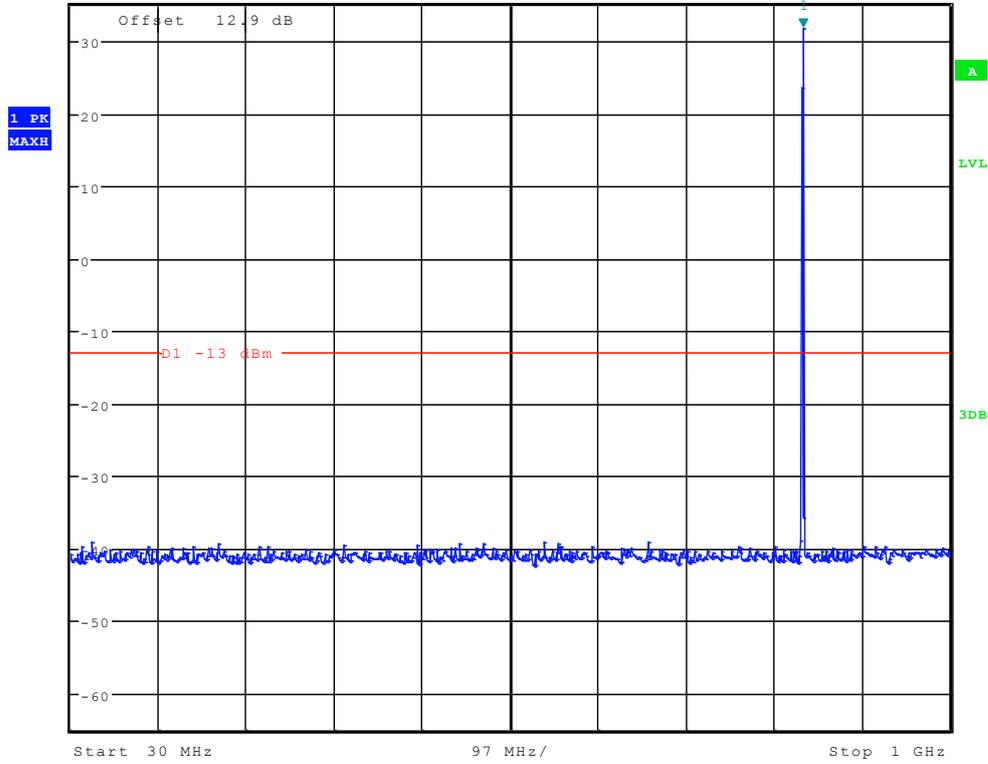
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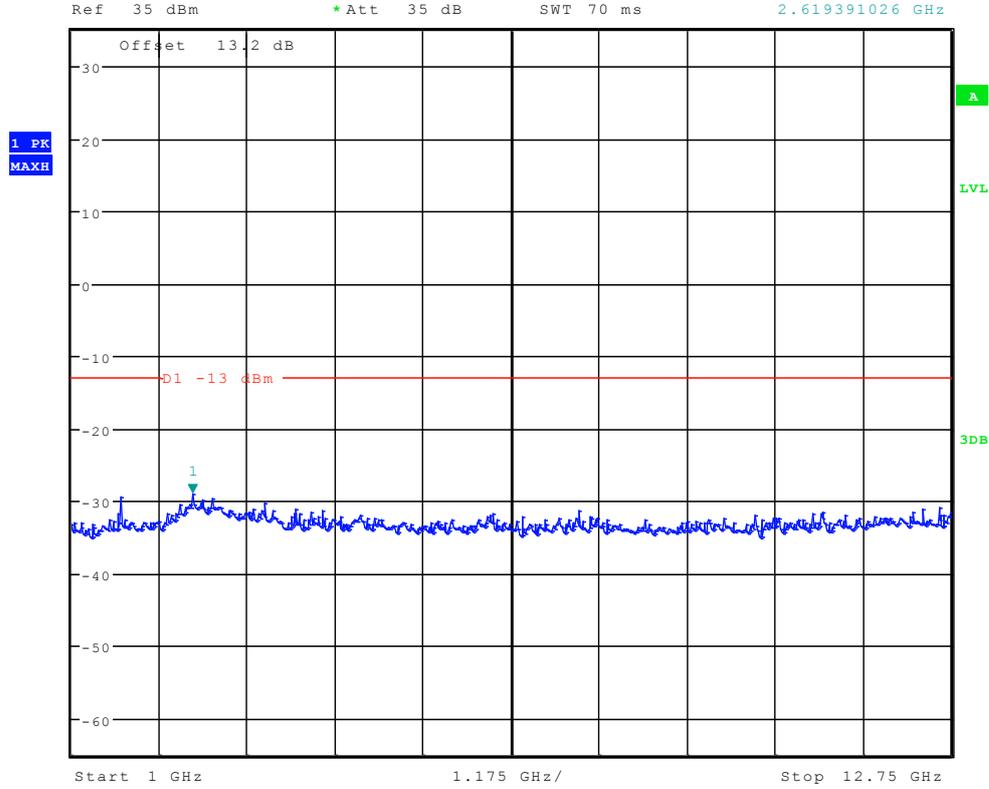
Date: 29.AUG.2012 09:56:40

Channel 251
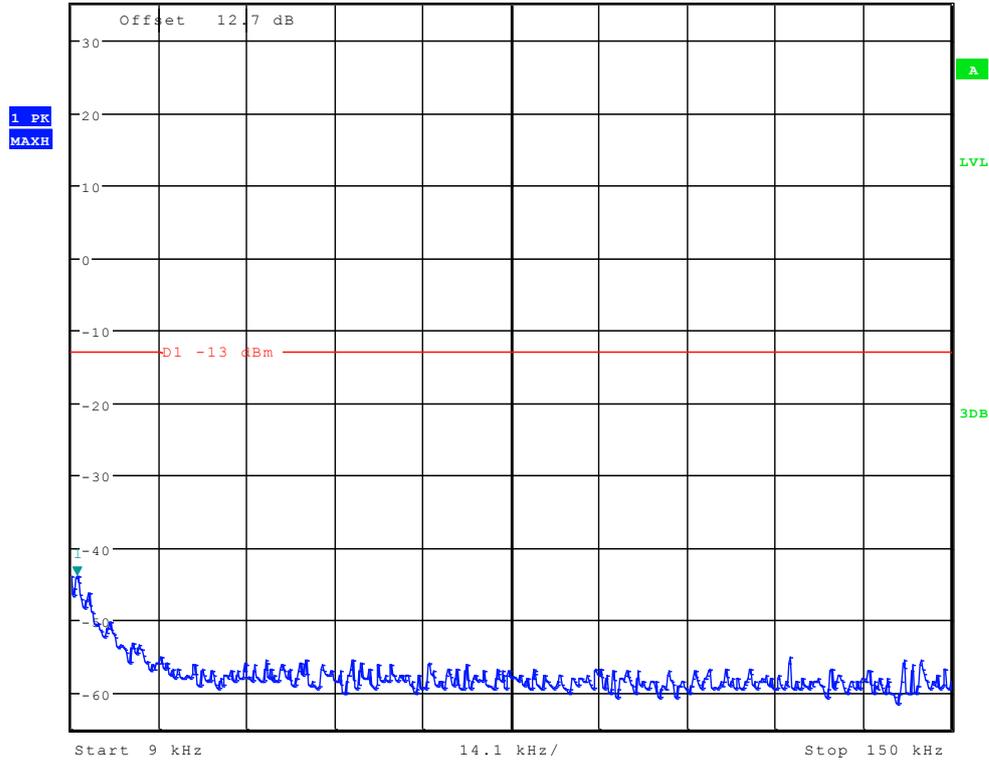
Date: 29.AUG.2012 09:54:24

```
                                              *RBW  10 kHz      Marker 1 [T1 ]
                                              *VBW  30 kHz              -46.42 dBm
     Ref  35 dBm              *Att  35 dB      SWT 300 ms       197.836538462 kHz

          Offset  12.8 dB                                                        A
  1 PK  -30
  MAXH
        -20                                                                    LVL
        -10
          0
        -10
              D1 -13 dBm
        -20                                                                    3DB
        -30
        -40
        -50
        -60

     Start  150 kHz              2.985 MHz/              Stop  30 MHz
```
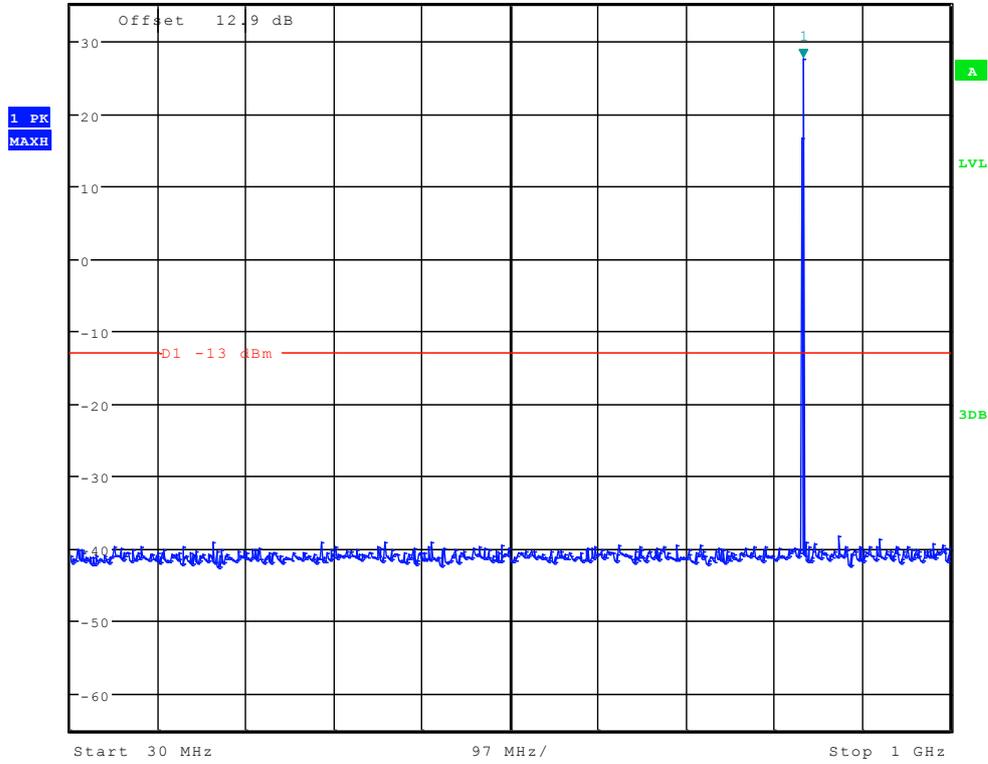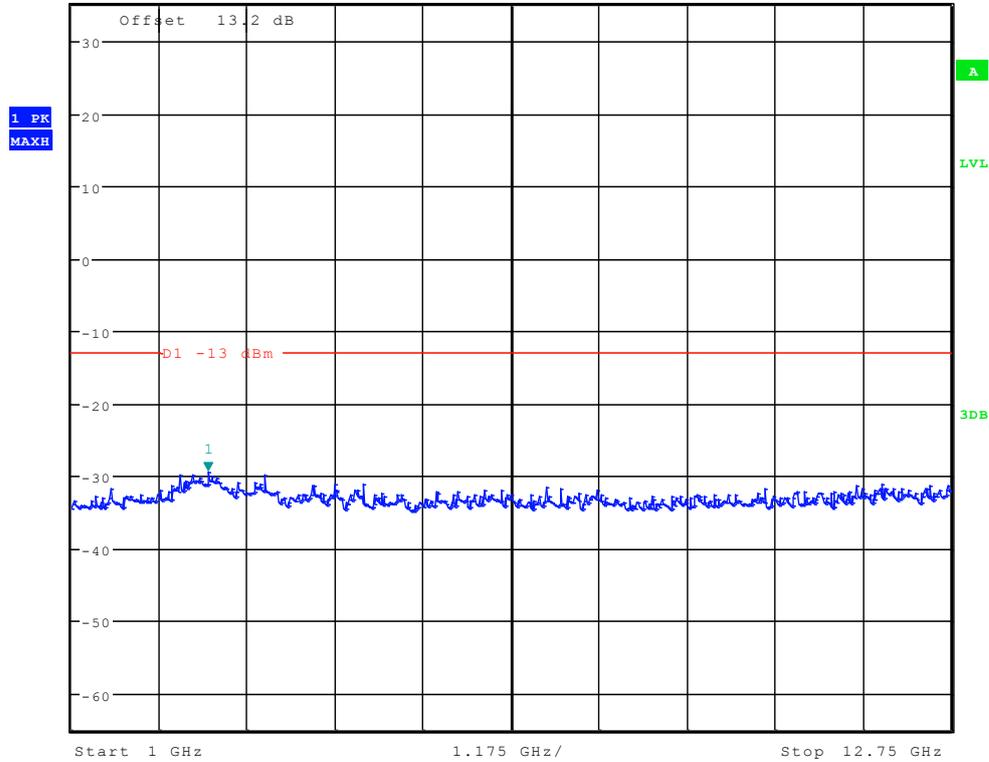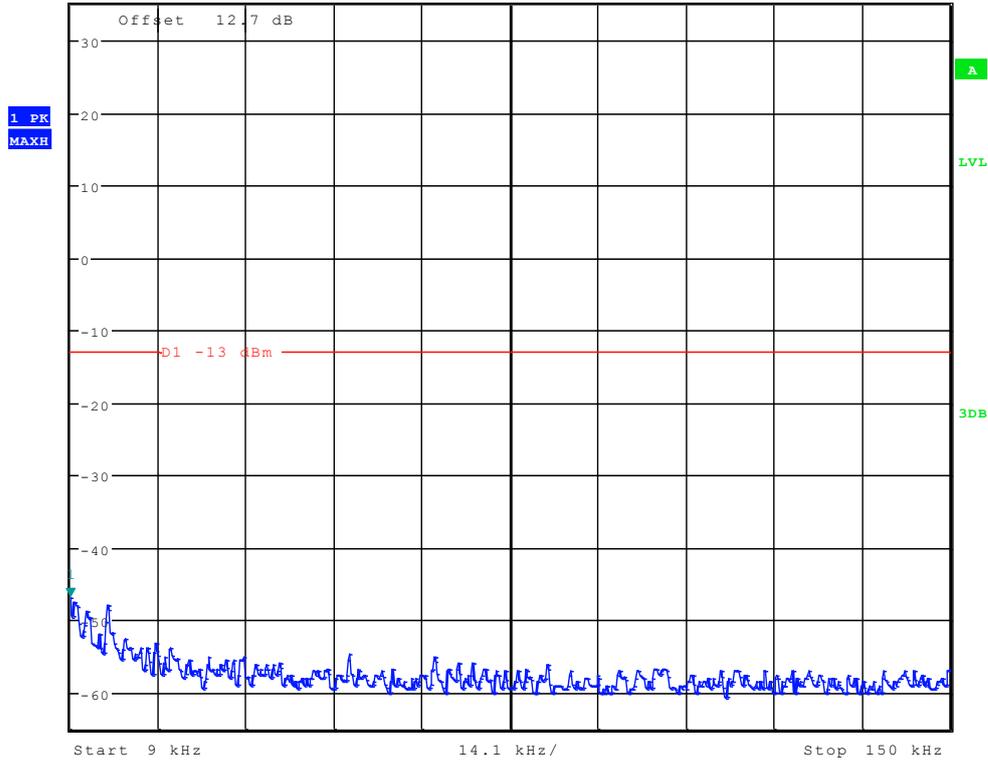
Date: 29.AUG.2012 09:55:08

```
                                      *RBW  100 kHz      Marker 1 [T1 ]
                                      *VBW  300 kHz              32.03 dBm
      Ref  35 dBm          *Att  35 dB   SWT 100 ms      849.214743590 MHz
```
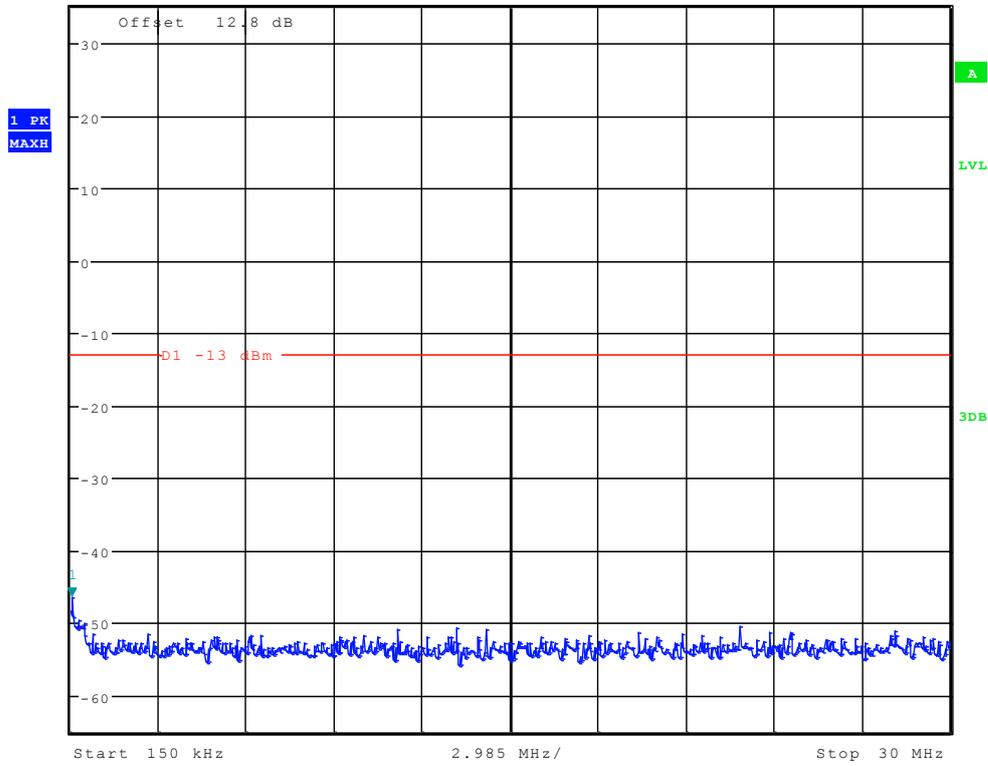
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TM2:EDGE
Channel 128

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Page17, Total37
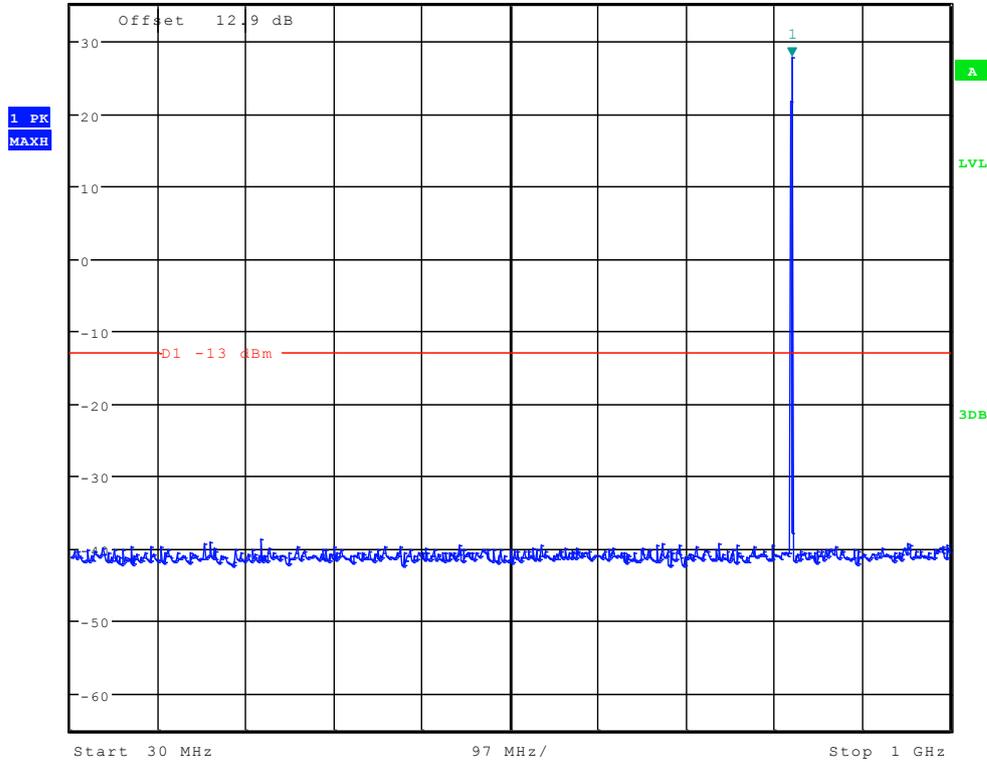
Channel 192


```
                                        * RBW  1 kHz      Marker 1 [T1 ]
                                        * VBW 10 kHz              -45.66 dBm
             Ref  35 dBm       * Att  35 dB    SWT 145 ms    10.129807692 kHz
```

Date: 29.AUG.2012 10:04:03

Report No:
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Date: 29.AUG.2012 10:05:31

Report No:
SYBH(Z-RF)026082012-2001

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Date: 29.AUG.2012 10:06:15

Report No:
SYBH(Z-RF)026082012-2001

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Channel 251


```
                                        * RBW  1 kHz      Marker 1 [T1 ]
                                        * VBW  10 kHz              -46.79 dBm
        Ref  35 dBm      * Att  35 dB    SWT  145 ms        9.000000000 kHz

        Offset   12.7 dB
```
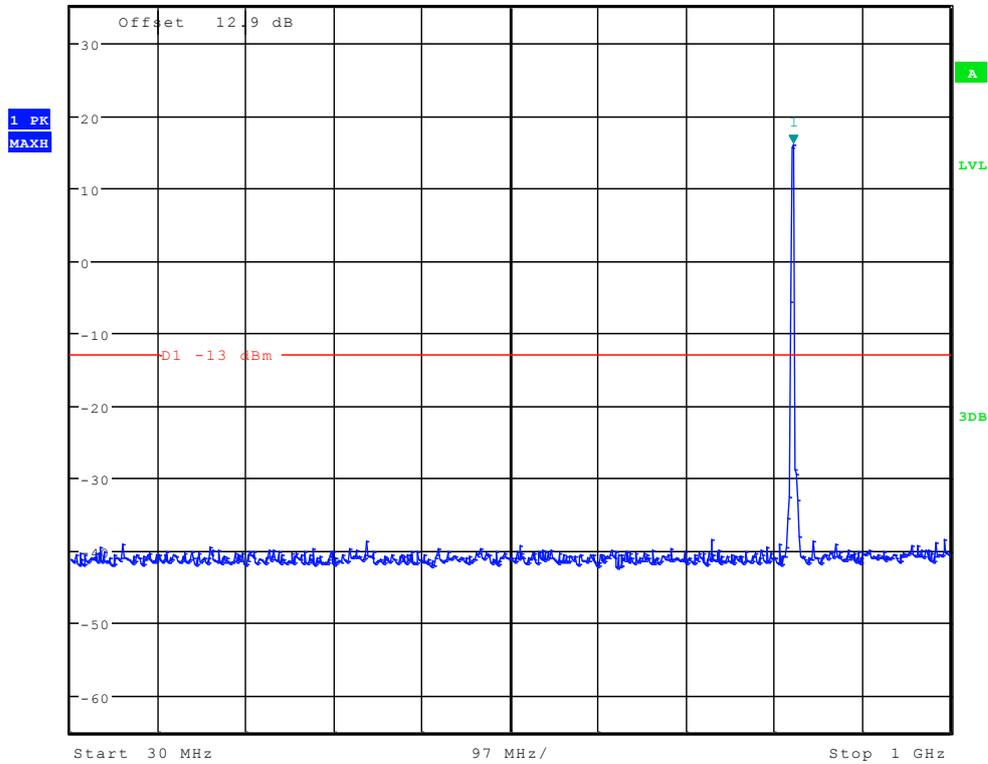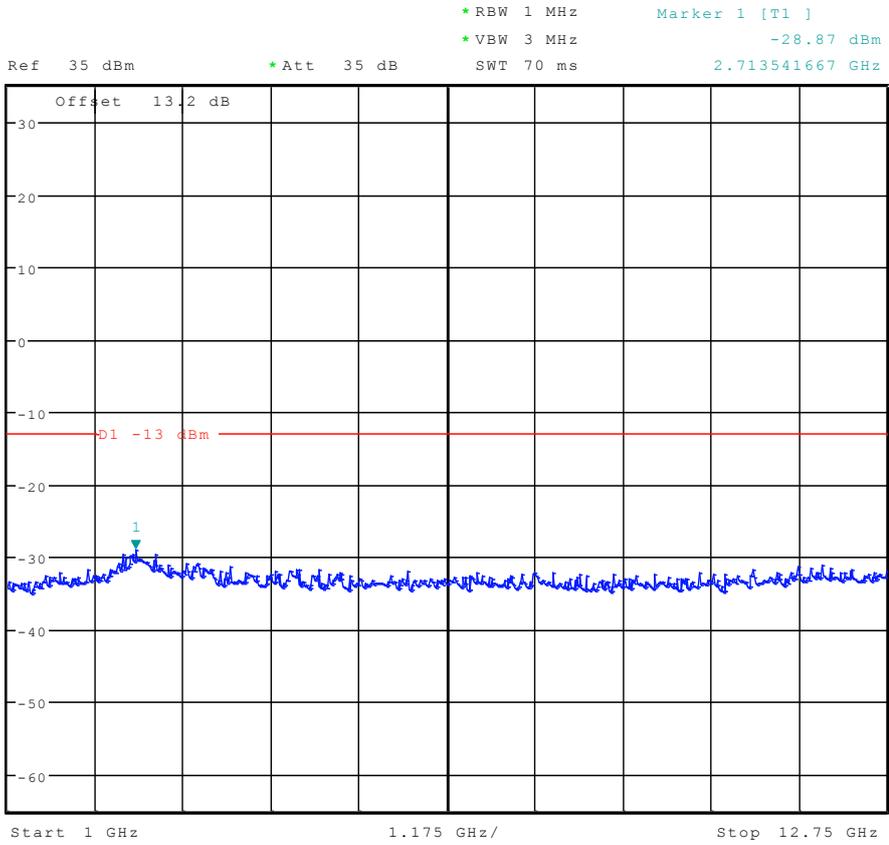
Date: 29.AUG.2012 10:04:18

Date: 29.AUG.2012 10:05:01

Report No:
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Date: 29.AUG.2012 10:05:45

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Ref 35 dBm   *Att 35 dB   SWT 70 ms

*RBW 1 MHz   Marker 1 [T1]
*VBW 3 MHz   -29.51 dBm
                     2.901842949 GHz

Offset 13.2 dB

1 PK
MAXH

D1 -13 dBm

A

LVL

3DB

1

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

Date: 29.AUG.2012 10:06:29

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TM3: WCDMA
Channel 4132

Date: 29.AUG.2012 10:08:43

*RBW 10 kHz	Marker 1 [T1]
*VBW 30 kHz	-46.42 dBm
SWT 300 ms	197.836538462 kHz

Ref 35 dBm   *Att 35 dB

Offset 12.8 dB

D1 -13 dBm

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 29.AUG.2012 10:09:27

Report No:
SYBH(Z-RF)026082012-2001

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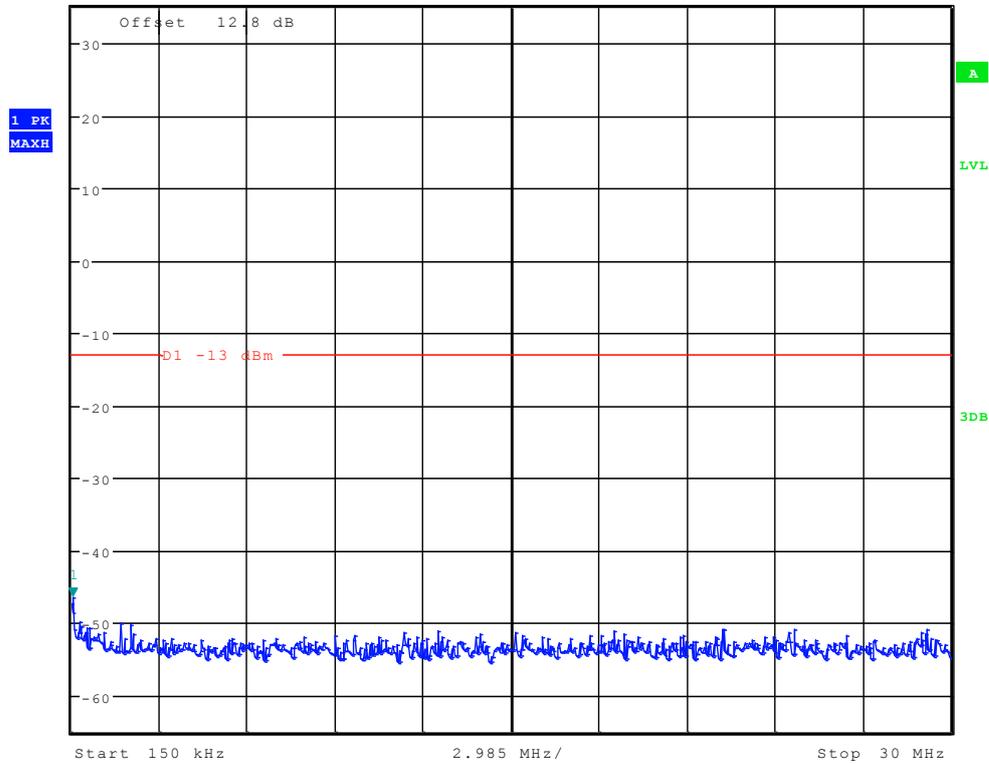
```
                                            *RBW  100 kHz     Marker 1 [T1 ]
                                            *VBW  300 kHz            15.89 dBm
          Ref  35 dBm          *Att  35 dB   SWT  100 ms      827.451923077 MHz
```
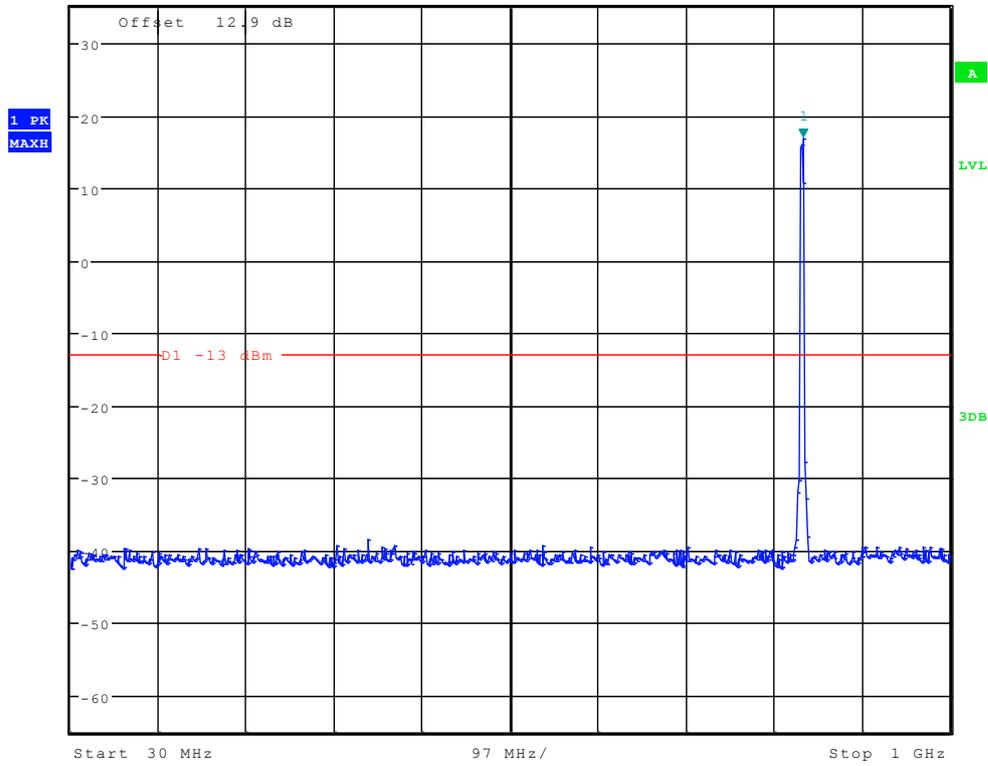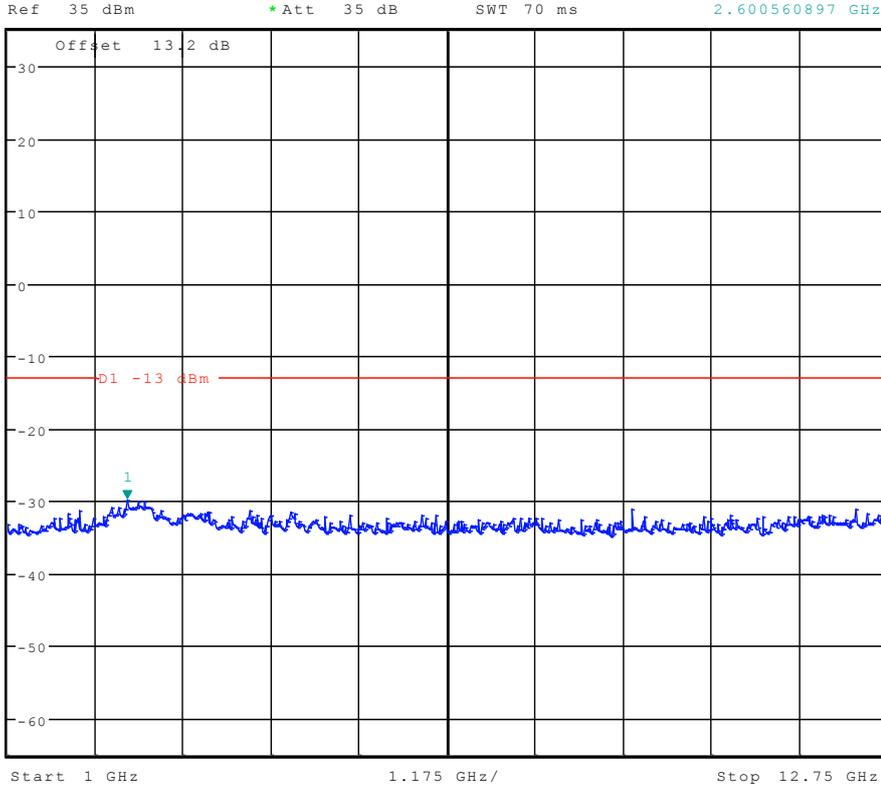


```
Start  30 MHz                   97 MHz/                      Stop  1 GHz
```

Date: 29.AUG.2012 10:10:11

```
                              *RBW 1 MHz          Marker 1 [T1 ]
                              *VBW 3 MHz                 -28.87 dBm
Ref  35 dBm        *Att  35 dB    SWT 70 ms      2.713541667 GHz

     Offset  13.2 dB                                                    A
  30

1 PK                                                                   LVL
MAXH
  20

  10

   0

 -10
    D1 -13 dBm

 -20                                                                   3DB

       1
 -30

 -40

 -50

 -60

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

Date: 29.AUG.2012 10:10:54

Channel 4182

```
                                    *RBW 1 kHz        Marker 1 [T1 ]
                                    *VBW 10 kHz                  -51.87 dBm
       Ref  35 dBm        *Att  35 dB     SWT 145 ms       9.225961538 kHz
```
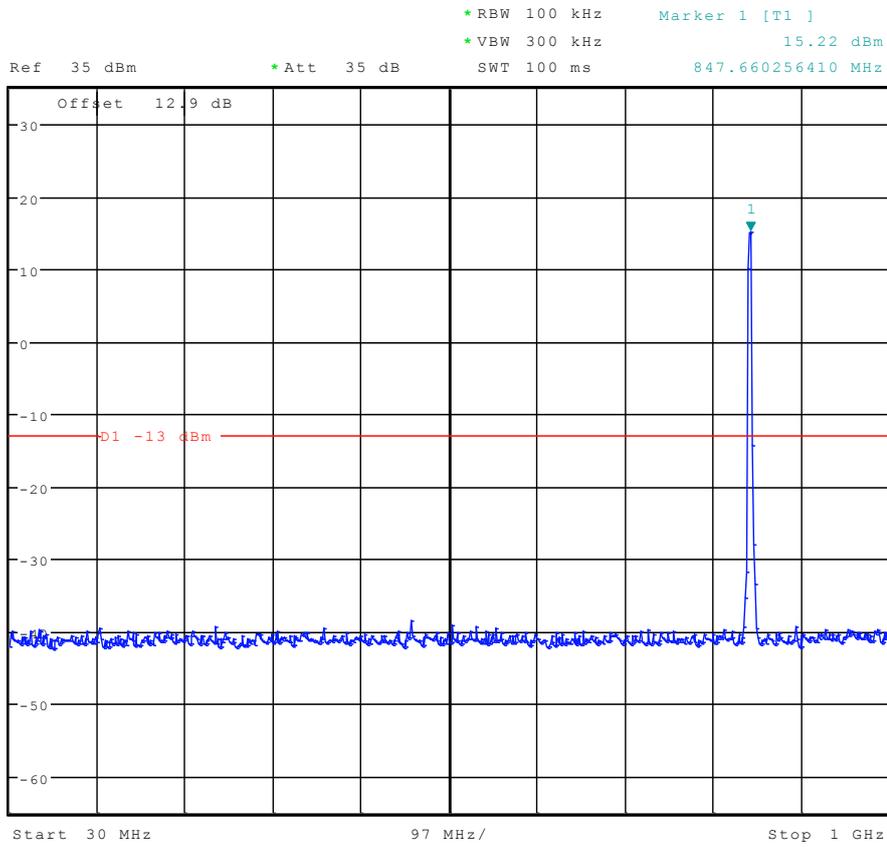


```
Start  9 kHz                14.1 kHz/              Stop  150 kHz
```

Date: 29.AUG.2012 10:08:57

Date: 29.AUG.2012 10:09:41

Report No:
SYBH(Z-RF)026082012-2001

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Page31, Total37
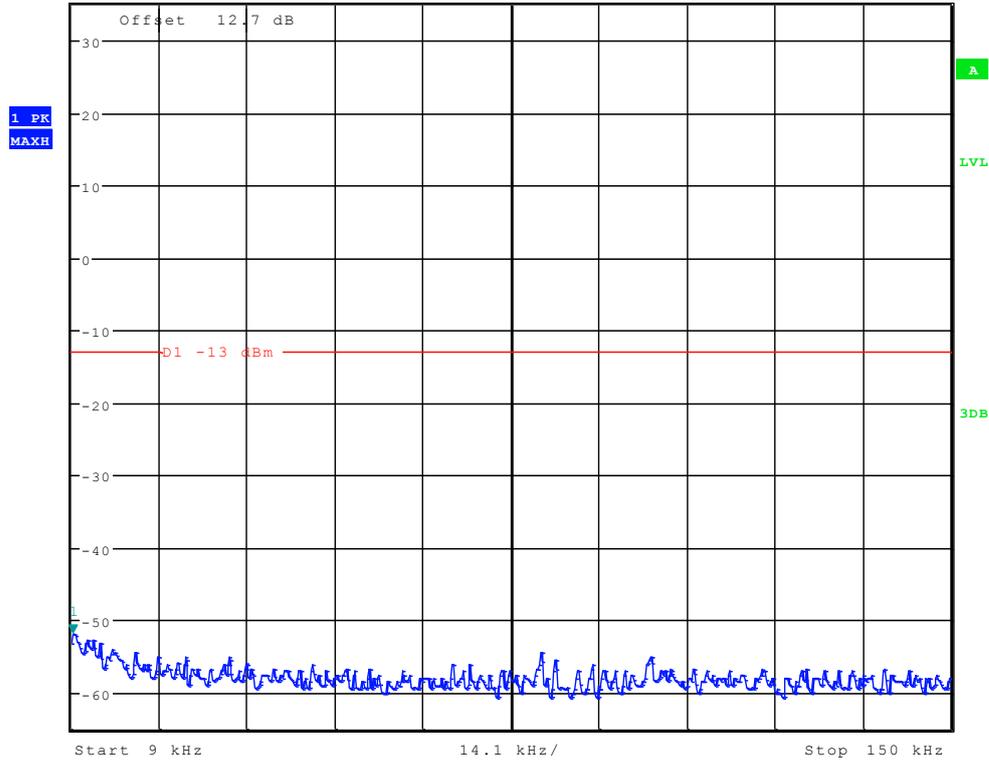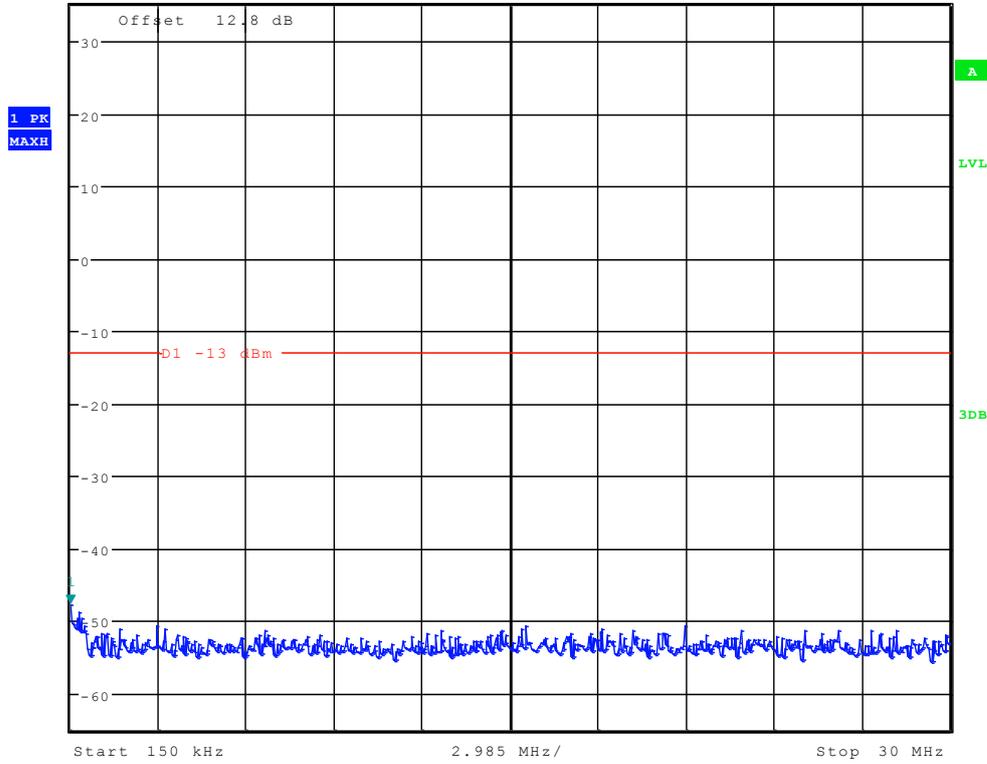
		* RBW 100 kHz	Marker 1 [T1]
		* VBW 300 kHz	16.90 dBm
Ref 35 dBm	* Att 35 dB	SWT 100 ms	838.333333333 MHz

```
        Offset  12.9 dB                                          A
      30
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: 29.AUG.2012 10:10:25

Date: 29.AUG.2012 10:11:09

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SYBH(Z-RF)026082012-2001

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Channel 4233

```
                                          *RBW  1 kHz      Marker 1 [T1 ]
                                          *VBW 10 kHz                -51.87 dBm
       Ref  35 dBm        *Att  35 dB      SWT 145 ms      10.355769231 kHz
```
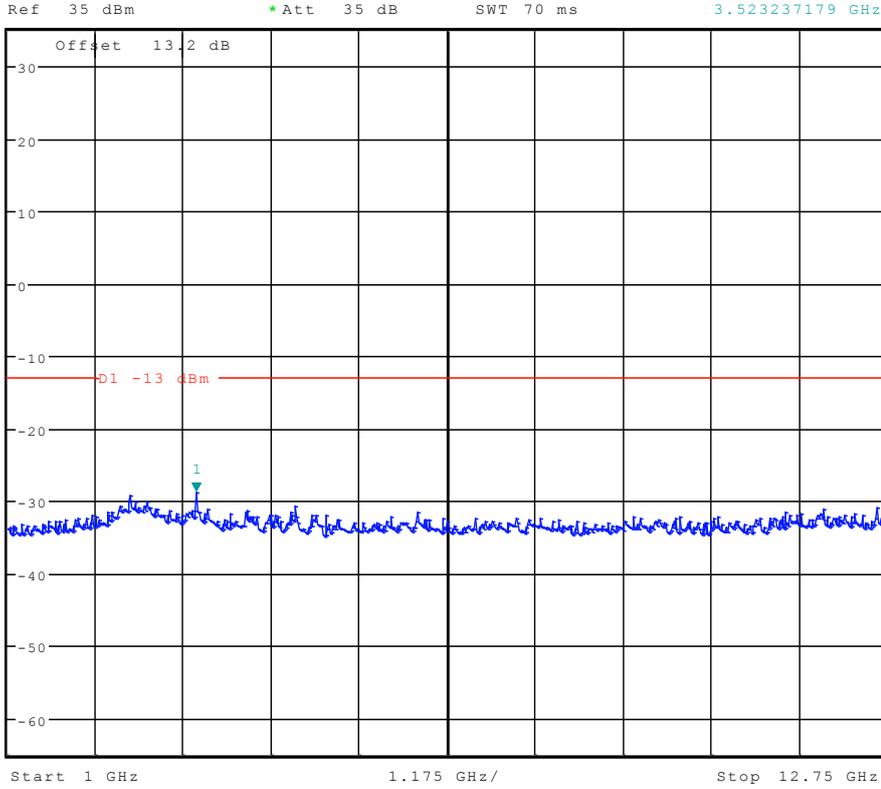


```
Start  9 kHz              14.1 kHz/               Stop  150 kHz
```

Date: 29.AUG.2012 10:09:12

Date: 29.AUG.2012 10:09:56

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```
                                            * RBW  100 kHz      Marker 1 [T1 ]
                                            * VBW  300 kHz              15.22 dBm
        Ref  35 dBm           * Att  35 dB   SWT 100 ms        847.660256410 MHz
```



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

Date: 29.AUG.2012 10:10:39

Date: 29.AUG.2012 10:11:23

---END---

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Page37, Total37
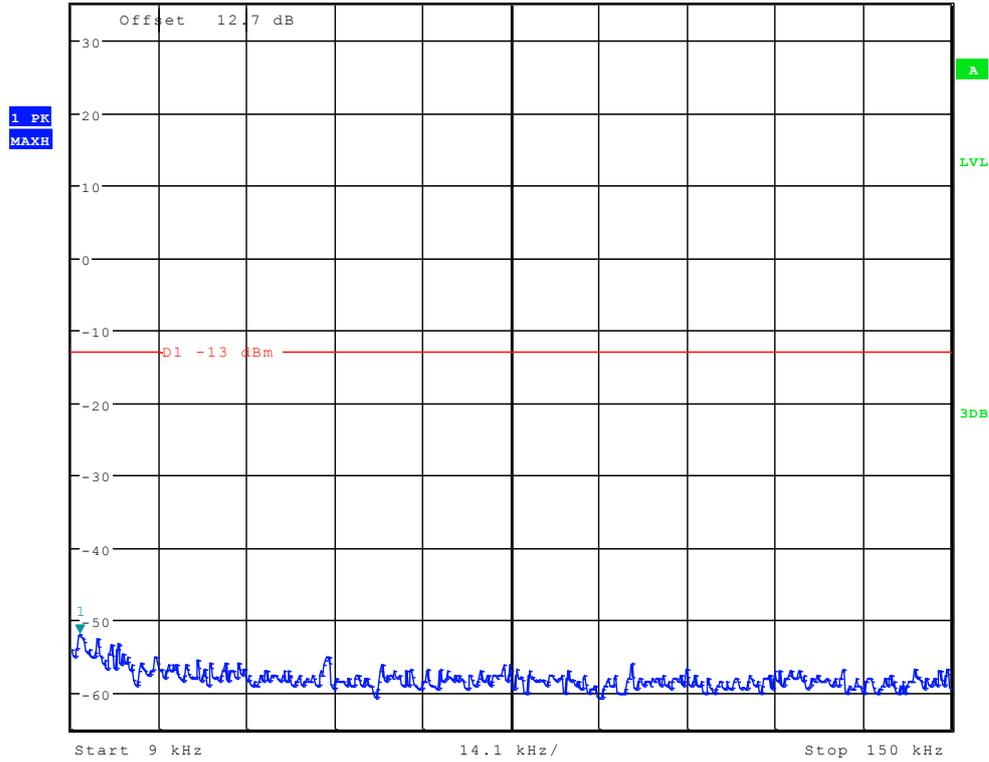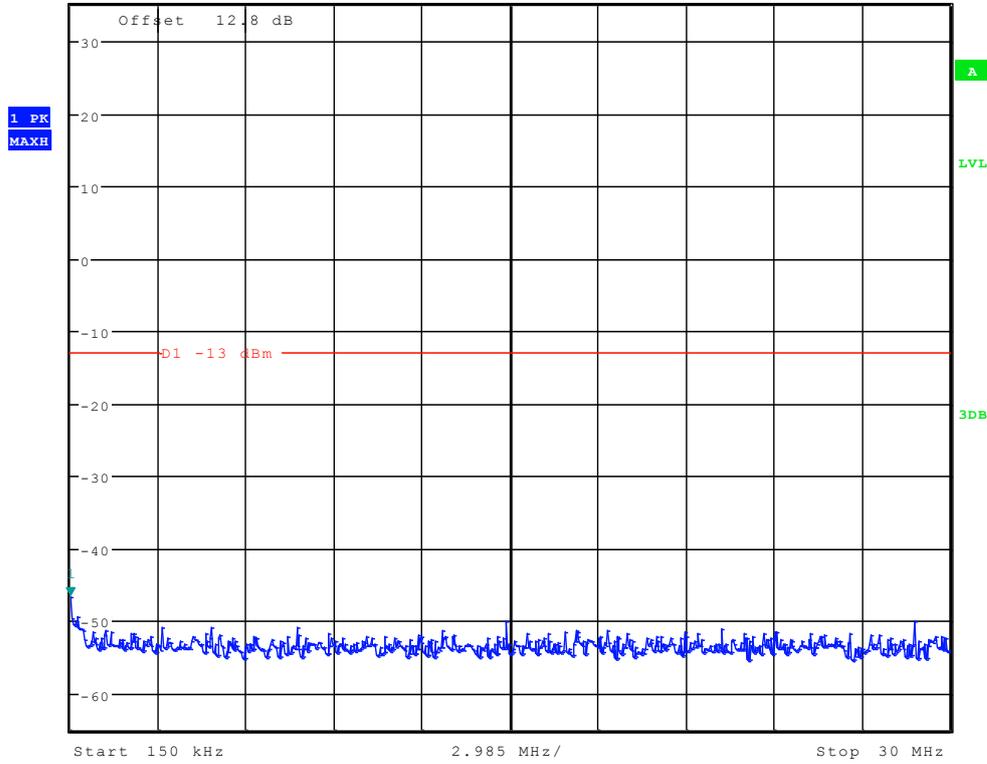
Appendix F

Radiated spurious emission

According to FCC Part 2.1053& Part 22.917

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GPRS 850

Traffic Mode (9kHz-30MHz)

Traffic Mode (30MHz-3GHz)

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Page2, Total9
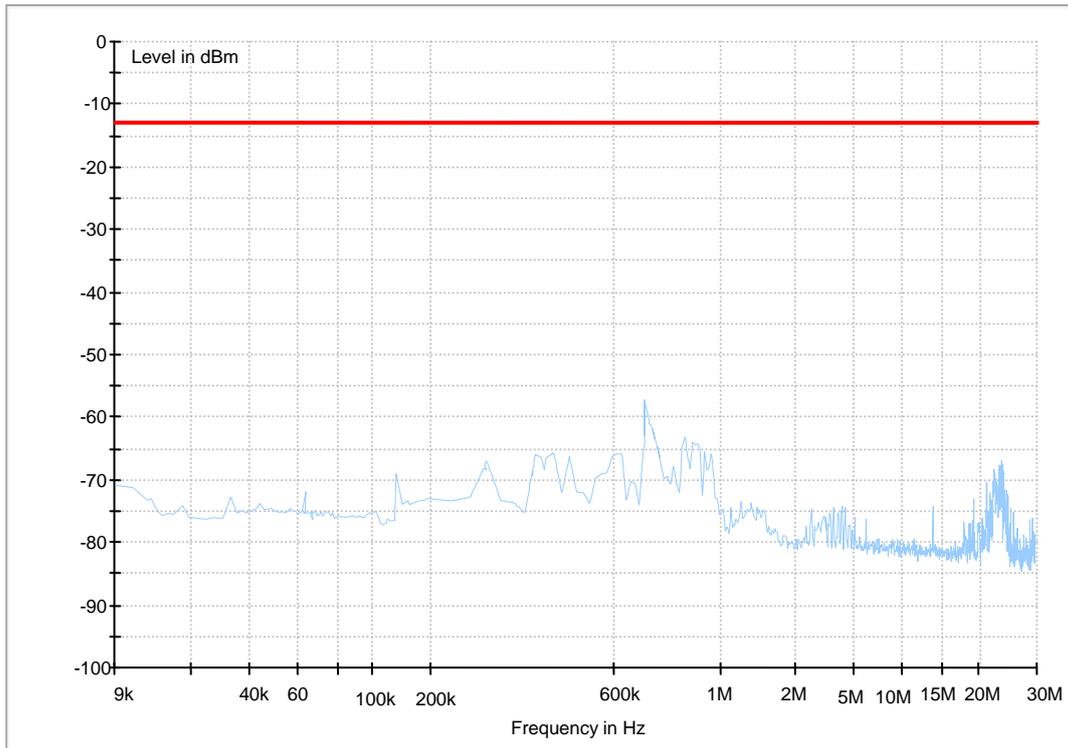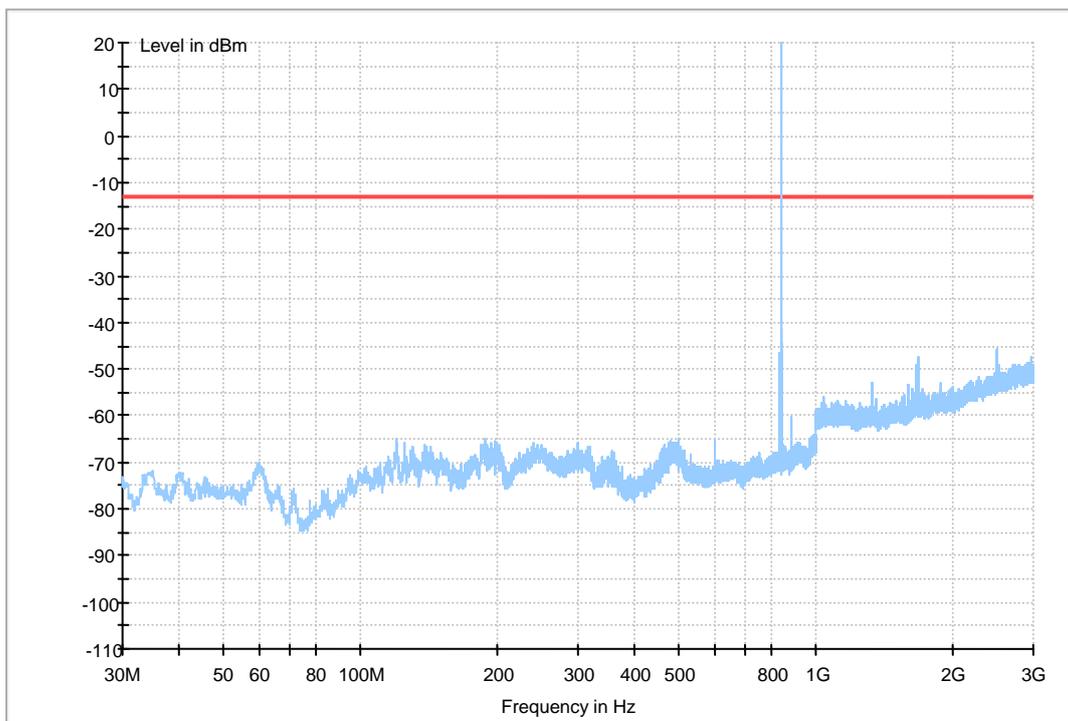
Traffic Mode (3GHz-18GHz)

EDGE 850

Traffic Mode (9kHz-30MHz)

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Page3, Total9
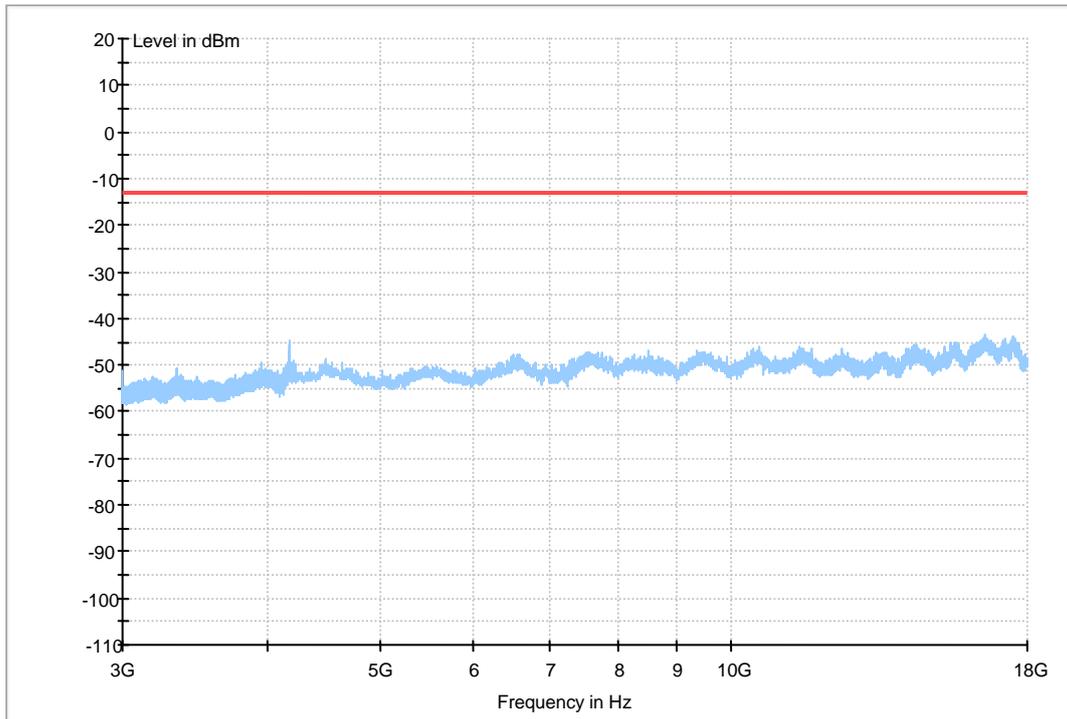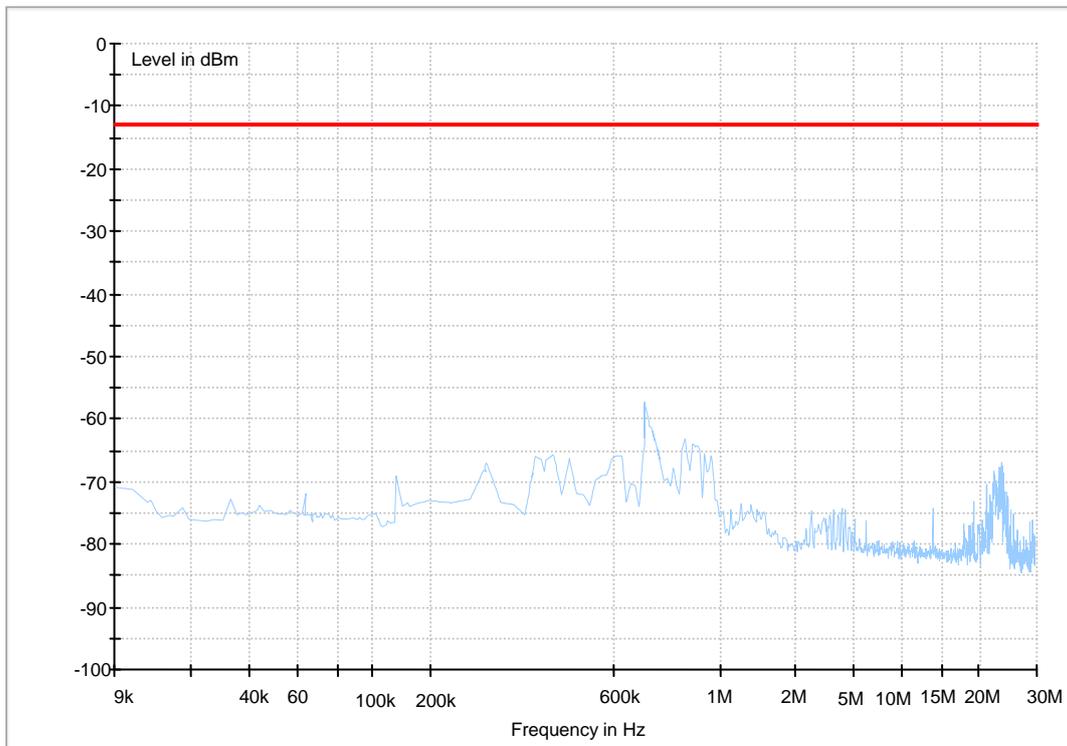
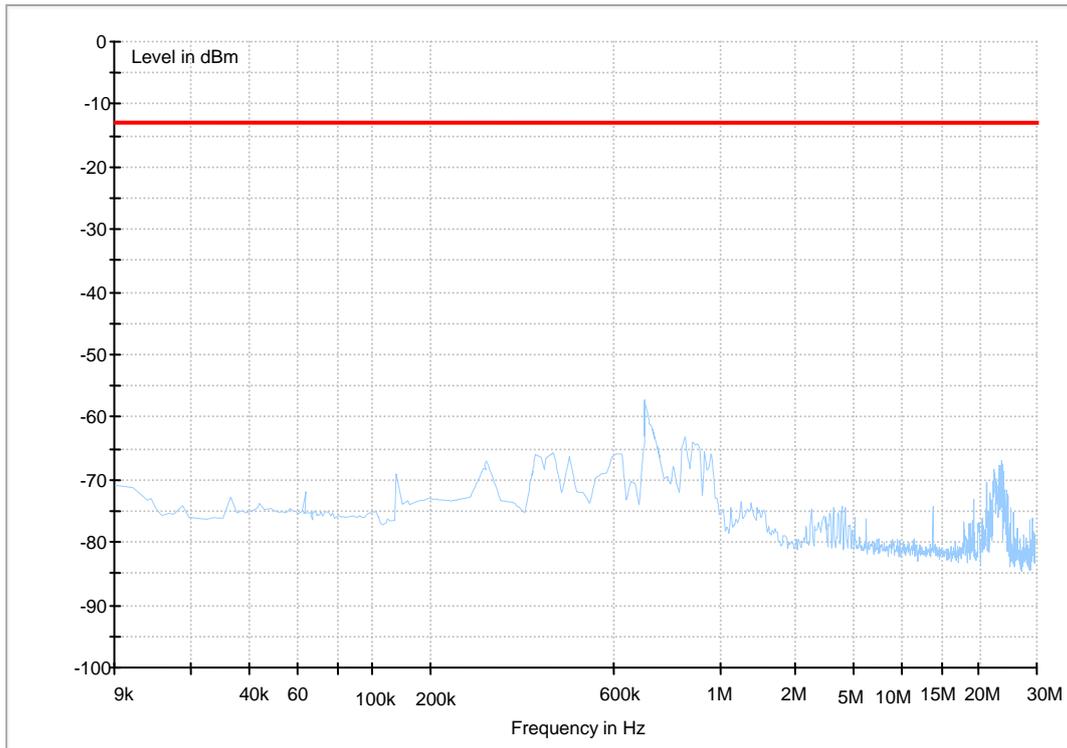## Traffic Mode (30MHz-3GHz)
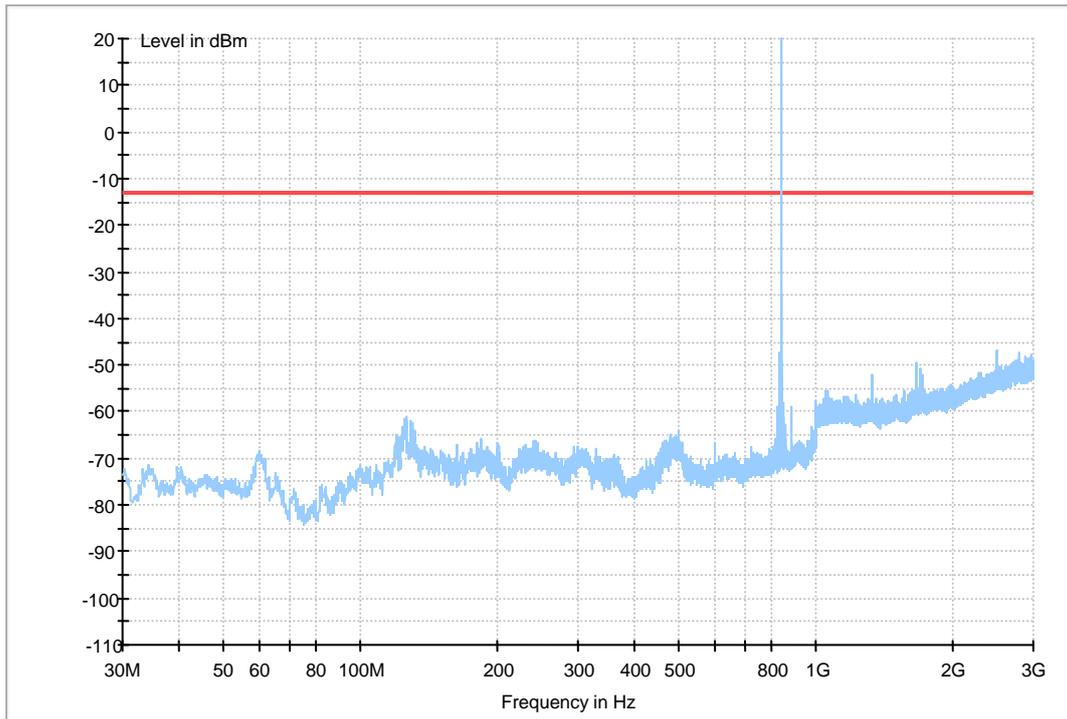
Traffic Mode (3GHz-18GHz)

WCDMA Band V

Traffic Mode (9kHz-30MHz)

Traffic Mode (30MHz-3GHz)

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Page5, Total9
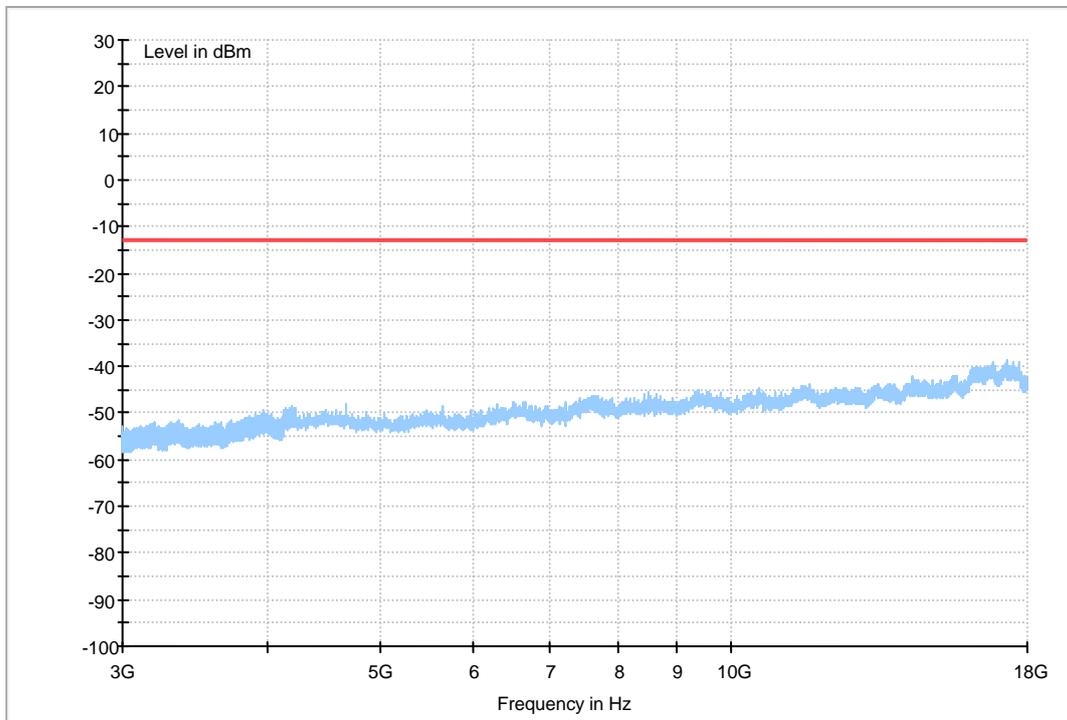
Traffic Mode (3GHz-18GHz)

HSDPA Band V

Traffic Mode (9kHz-30MHz)

Traffic Mode (30MHz-3GHz).

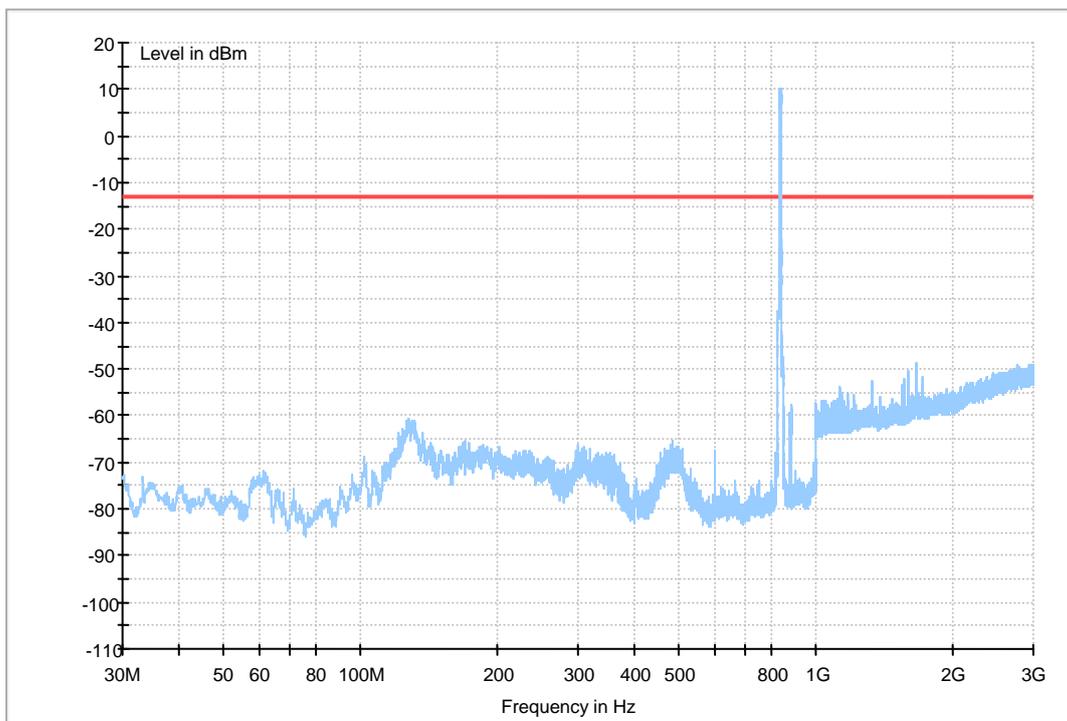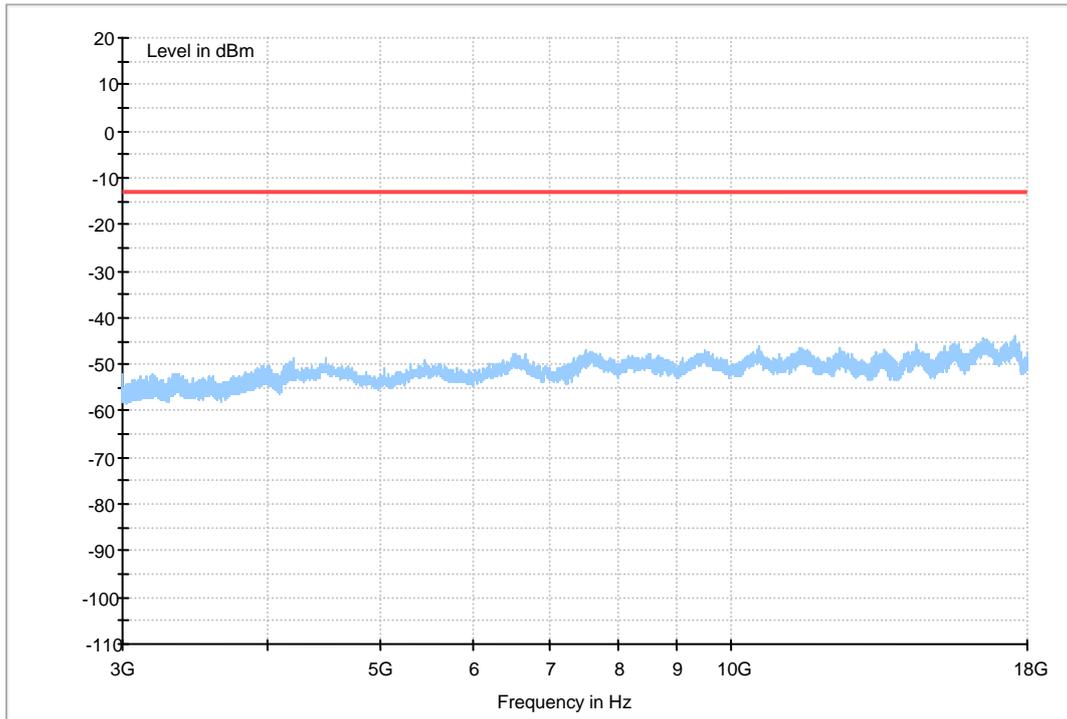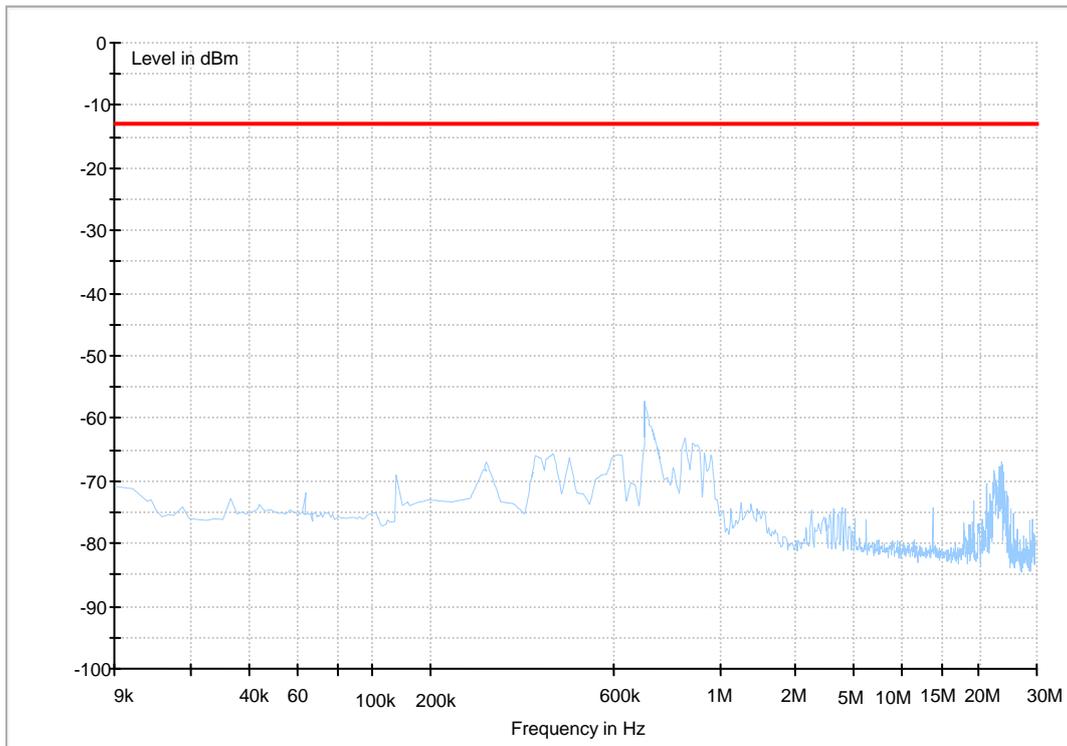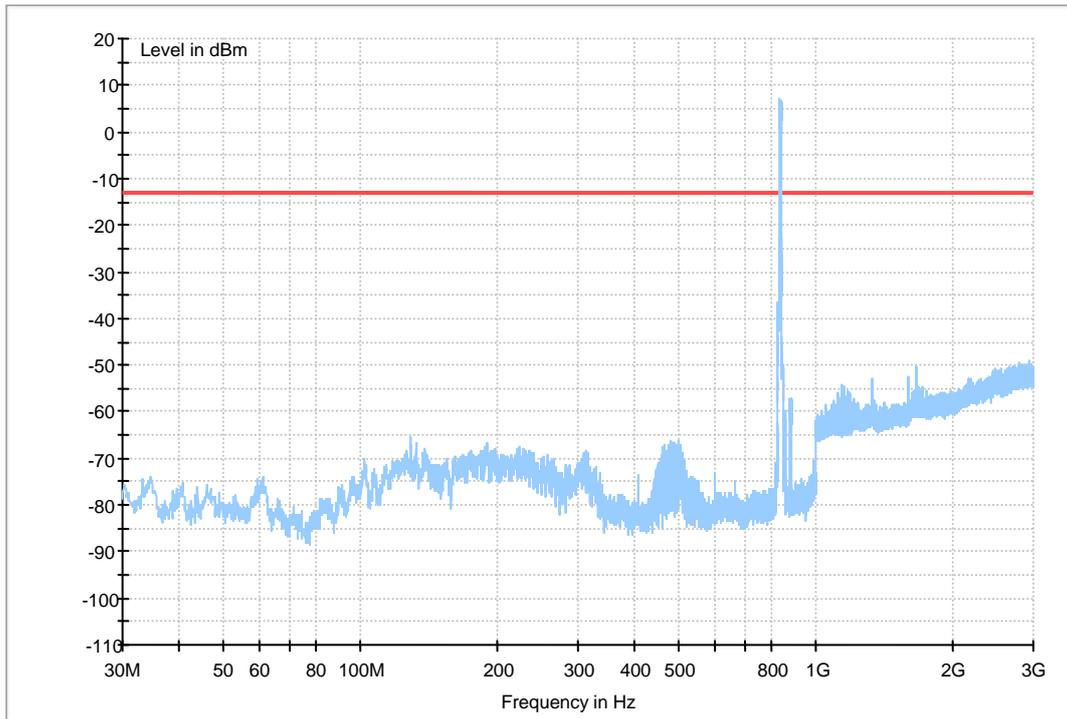

Traffic Mode (3GHz-18GHz)
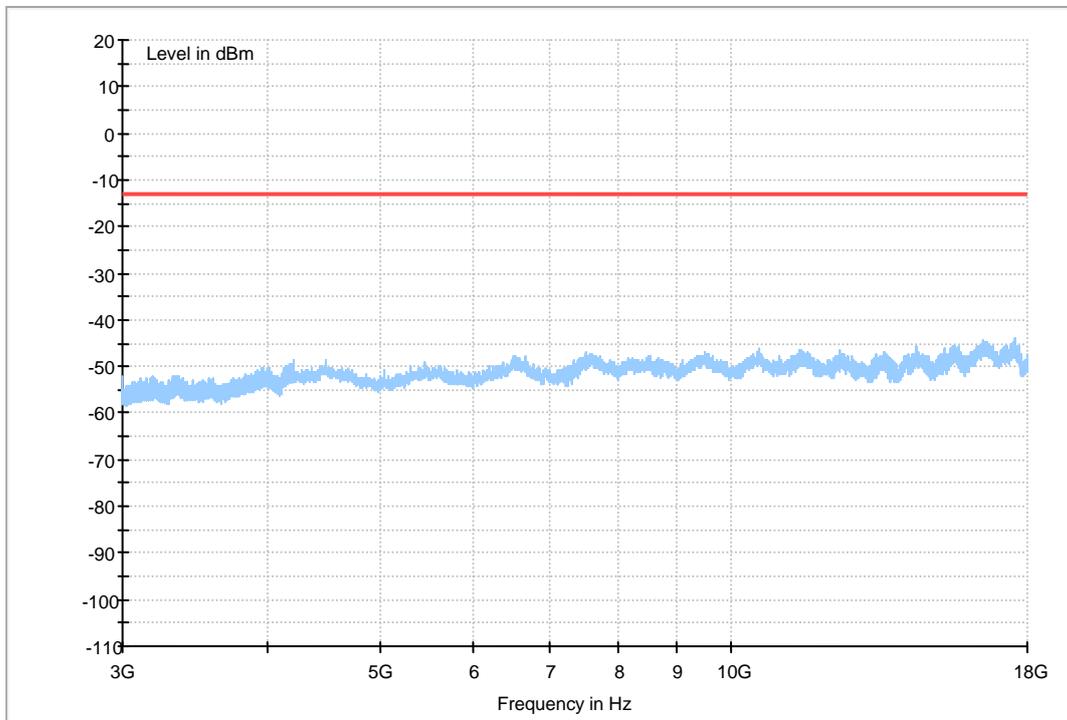
HSUPA Band V

Traffic Mode (9kHz-30MHz)
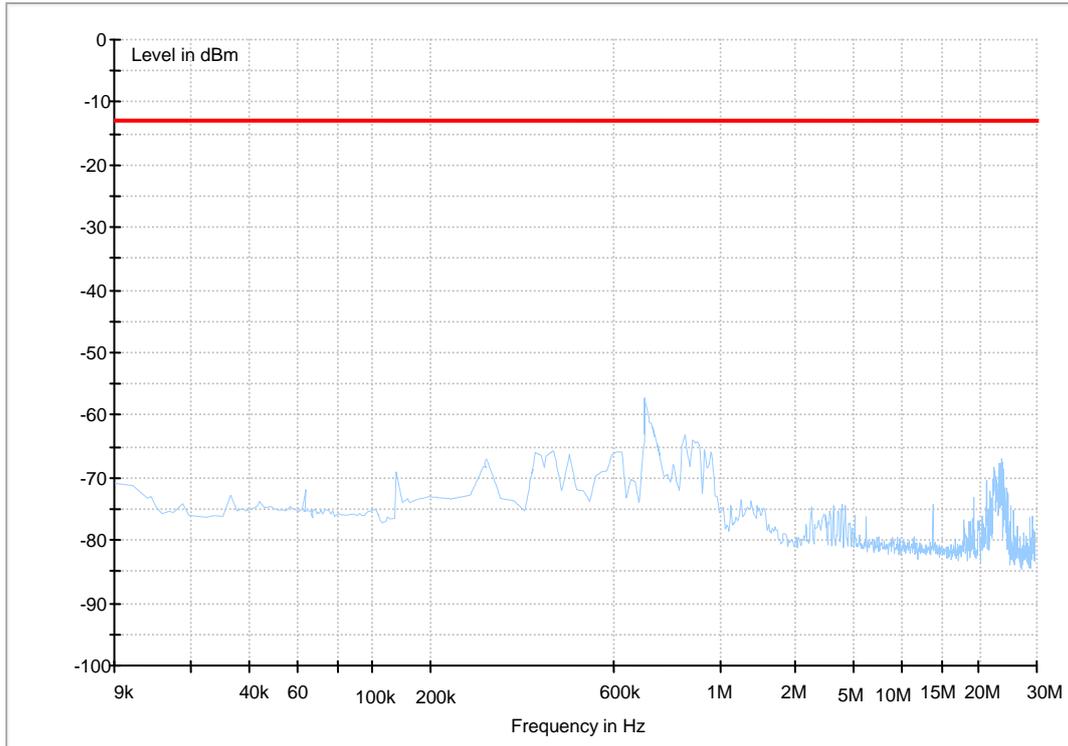
Traffic Mode (30MHz-3GHz)
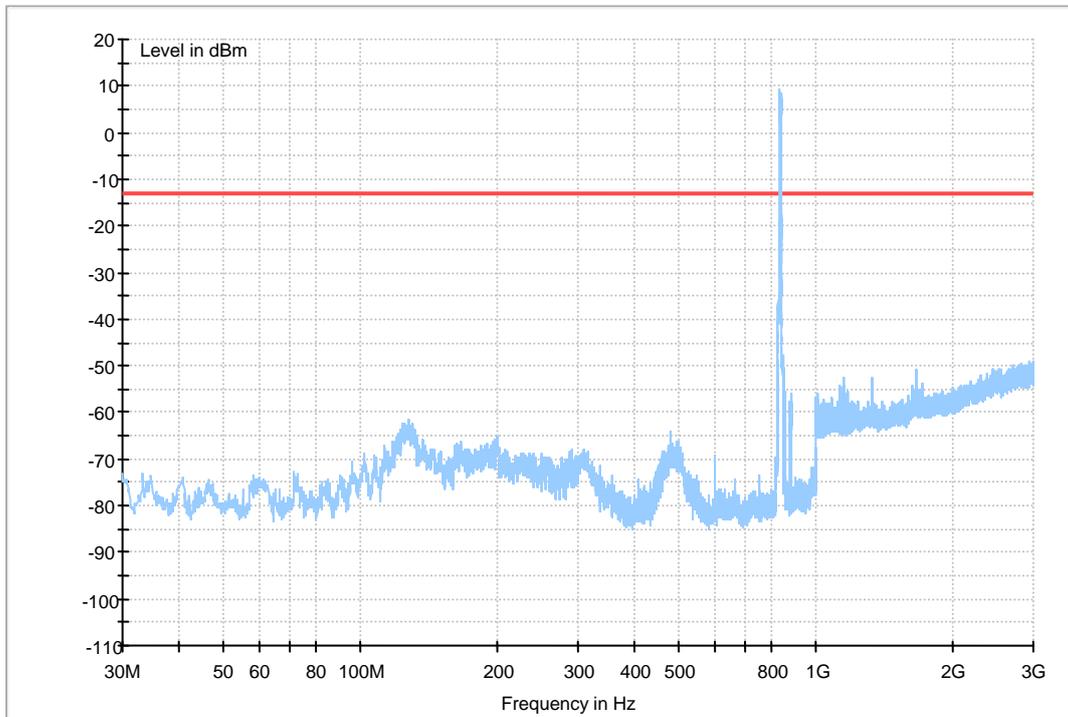
Traffic Mode (3GHz-18GHz)

---The END---

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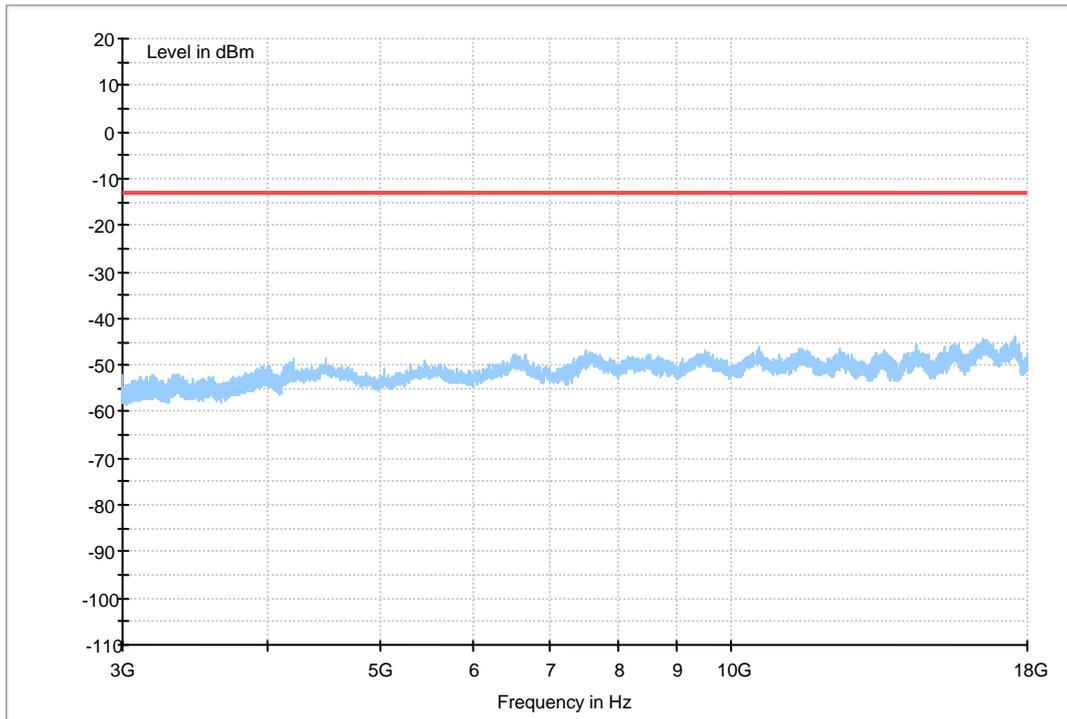
Appendix G

Frequency Stability
According to FCC Part 2.1055 & Part 22.355

Report No:
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Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	VN	-30 °C	-23	-0.02748	---	±2.5	Pass
			-20 °C	-19	-0.02270	---	±2.5	Pass
			-10 °C	14	0.01673	---	±2.5	Pass
			0 °C	-17	-0.02031	---	±2.5	Pass
			10 °C	-20	-0.02389	---	±2.5	Pass
			20 °C	-19	-0.02270	---	±2.5	Pass
			30 °C	22	0.02628	---	±2.5	Pass
			40 °C	19	0.02270	---	±2.5	Pass
			50 °C	7	0.00836	---	±2.5	Pass
TM 2	M	VN	-30 °C	-19	-0.02270	---	±2.5	Pass
			-20 °C	-18	-0.02151	---	±2.5	Pass
			-10 °C	-9	-0.01075	---	±2.5	Pass
			0 °C	-11	-0.01314	---	±2.5	Pass
			10 °C	-8	-0.00956	---	±2.5	Pass
			20 °C	15	0.01792	---	±2.5	Pass
			30 °C	-11	-0.01314	---	±2.5	Pass
			40 °C	15	0.01792	---	±2.5	Pass
			50 °C	-13	-0.01553	---	±2.5	Pass
TM 3	M	VN	-30 °C	-11	-0.01314	---	±2.5	Pass
			-20 °C	-20	-0.02389	---	±2.5	Pass
			-10 °C	16	0.01912	---	±2.5	Pass
			0 °C	-6	-0.00717	---	±2.5	Pass
			10 °C	16	0.01912	---	±2.5	Pass
			20 °C	24	0.02867	---	±2.5	Pass
			30 °C	19	0.02270	---	±2.5	Pass
			40 °C	25	0.02987	---	±2.5	Pass
			50 °C	14	0.01673	---	±2.5	Pass

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Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	TN	VL	11	0.01314	---	±2.5	Pass
			VN	-20	-0.02389	---	±2.5	Pass
			VH	17	0.02031	---	±2.5	Pass
TM 2	M	TN	VL	17	0.02031	---	±2.5	Pass
			VN	-21	-0.02509	---	±2.5	Pass
			VH	-19	-0.02270	---	±2.5	Pass
TM 3	M	TN	VL	22	0.02628	---	±2.5	Pass
			VN	-22	-0.02628	---	±2.5	Pass
			VH	-9	-0.01075	---	±2.5	Pass

---The END---

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Appendix H

Photos of Radiated Spurious Emissions

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Photos of Test Setup

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1 <u>Radiated Spurious Emissions</u>

Radiated Spurious Emission (below 3GHz)

Radiated Spurious Emission (3GHz to18GHz)

---The End---

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