Date: 8.JUL.2016 23:20:56

Chain 1:802.11n ht40 Low Channel

Date: 01.JUL.2016 23:32:44
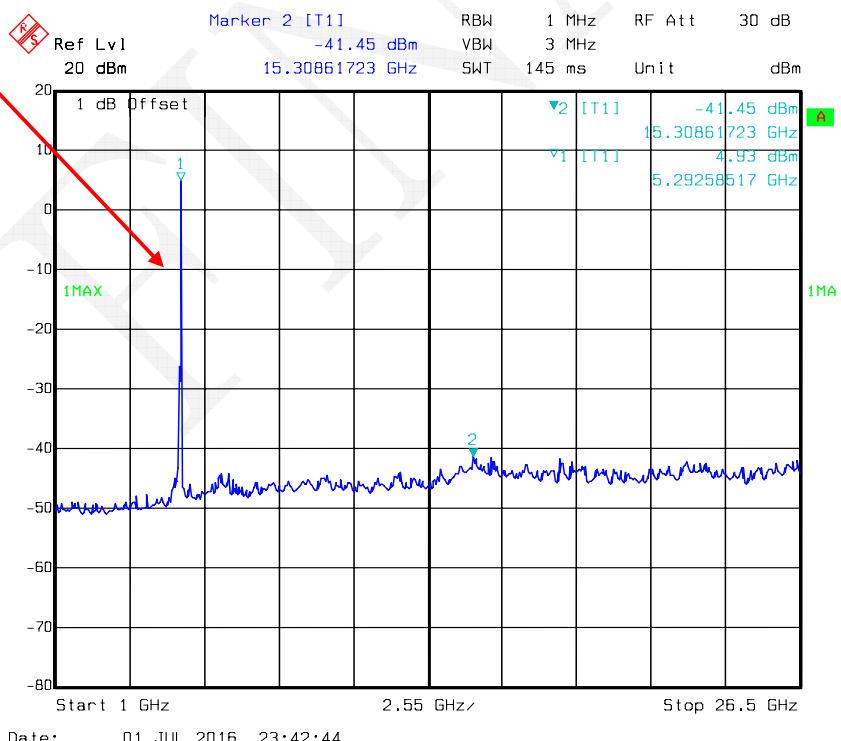
Fundamental

Date: 01.JUL.2016   23:32:33
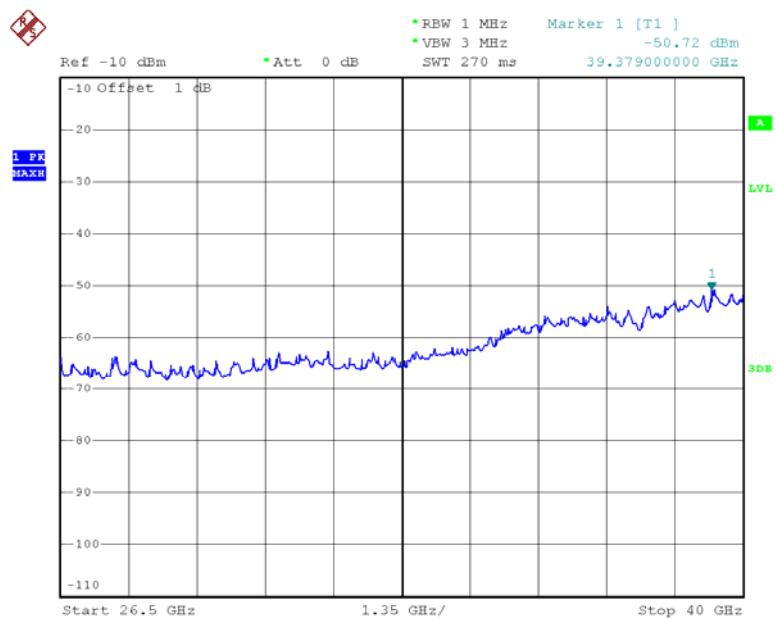
Date: 8.JUL.2016   23:21:04

Chain 1:802.11n ht40 High Channel

Fundamental

```
                                          *RBW 1 MHz    Marker 1 [T1 ]
                                          *VBW 3 MHz            -50.72 dBm
        Ref -10 dBm         *Att  0 dB     SWT 270 ms      39.379000000 GHz
        -10 Offset  1 dB
```
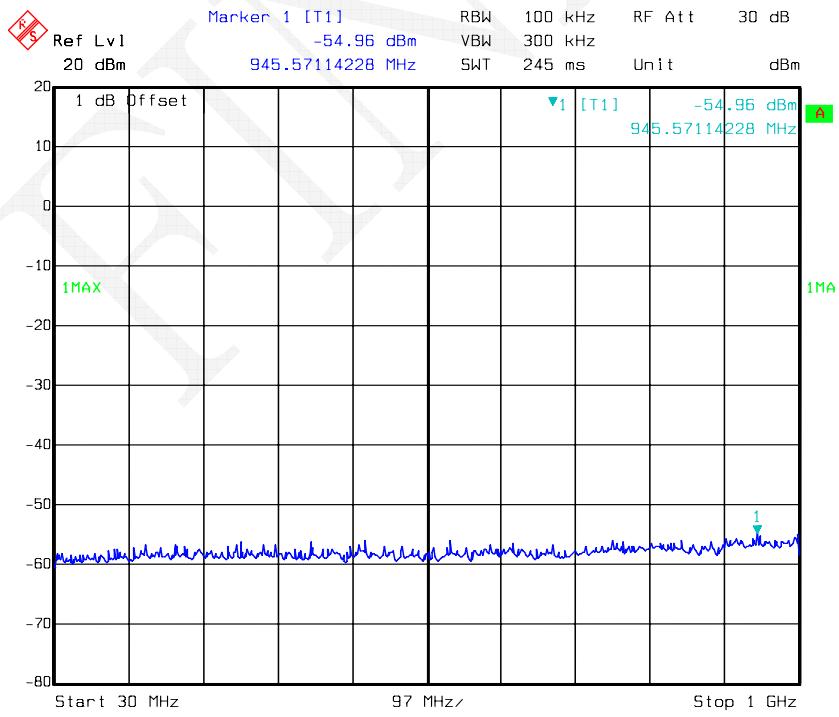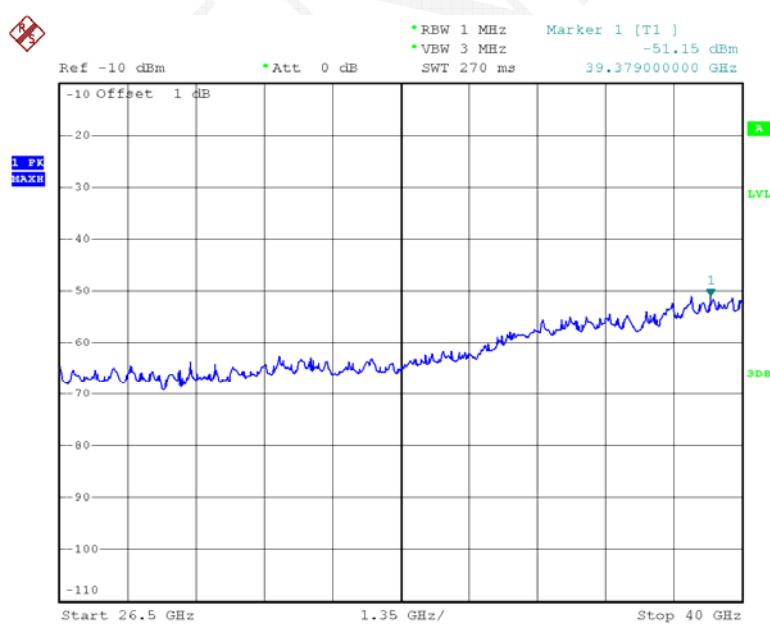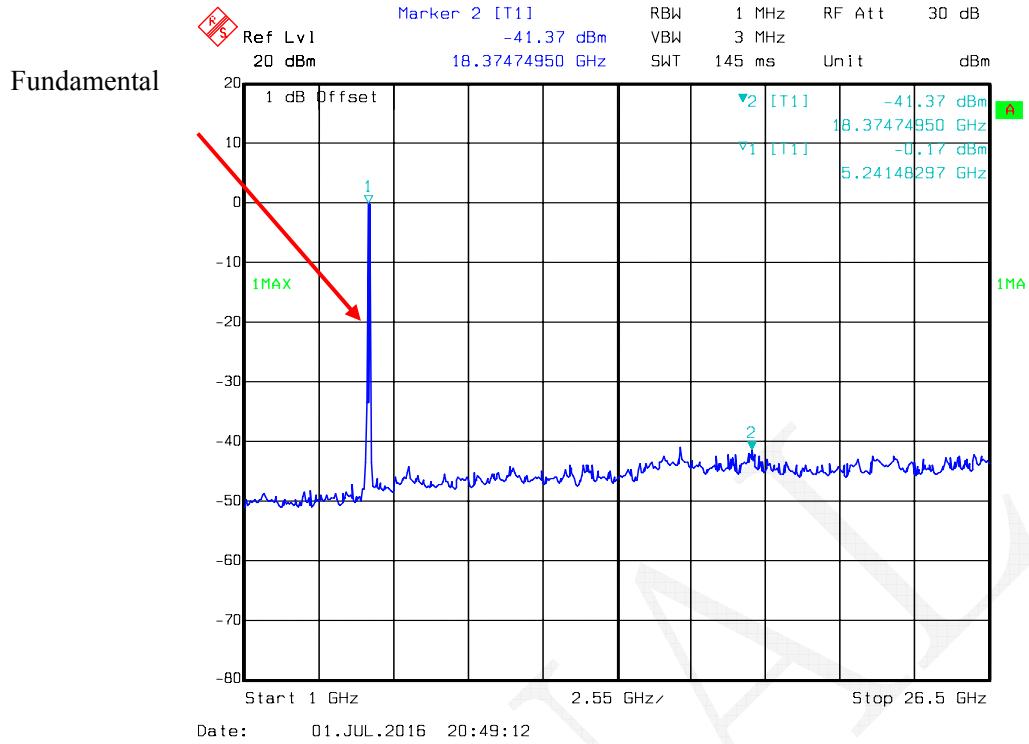
Date: 8.JUL.2016 23:21:11

Chain 1:802.11n ac80 Middle Channel

```
                        Marker 1 [T1]        RBW   100 kHz   RF Att    30 dB
        Ref Lvl                   -54.96 dBm VBW   300 kHz
        20 dBm          945.57114228 MHz     SWT   245 ms    Unit        dBm
```
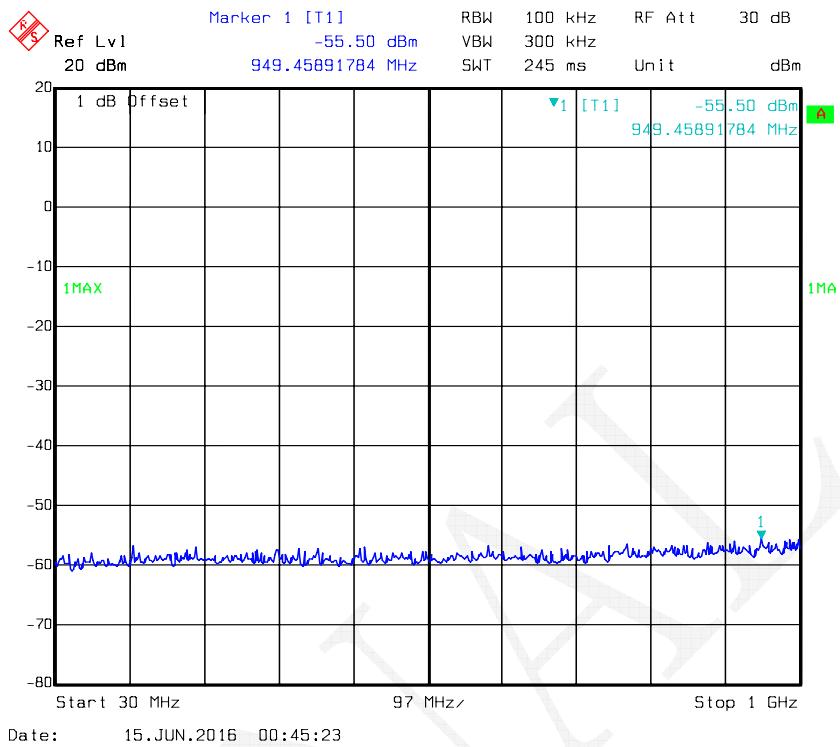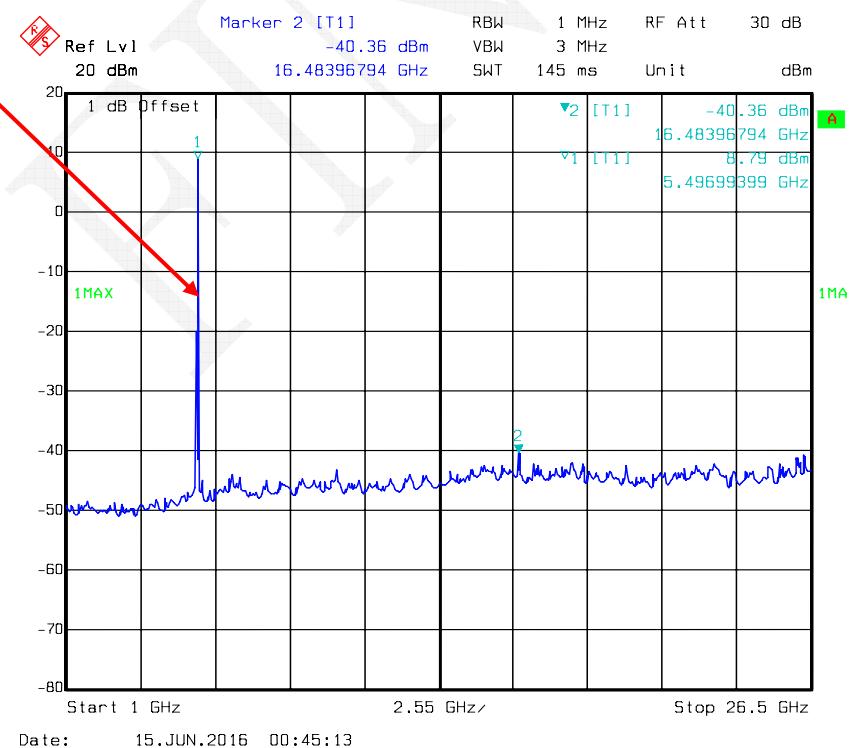
Date: 01.JUL.2016 20:49:24
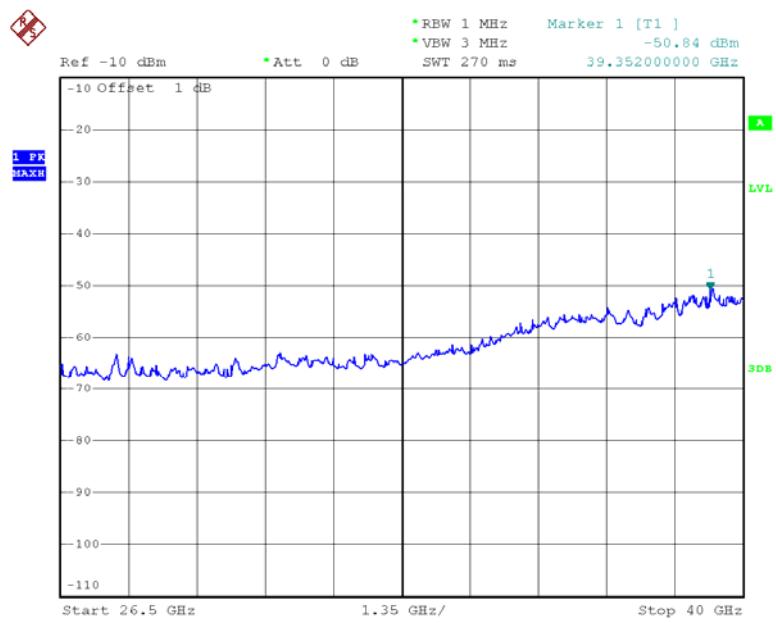
Fundamental

Date: 01.JUL.2016   20:49:12
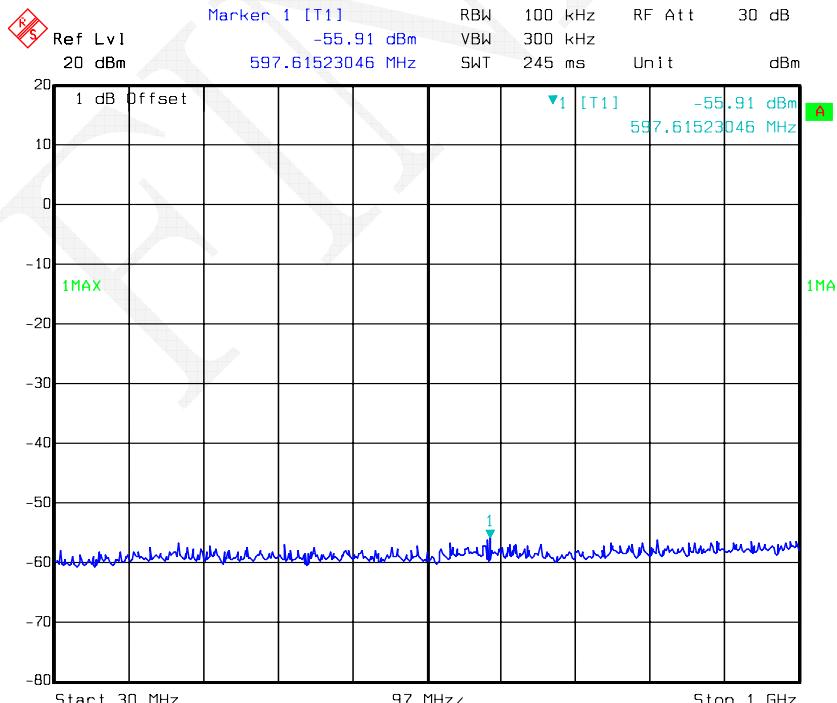
Date: 8.JUL.2016   23:21:18

5470-5725MHz:

Chain 0:802.11a Low Channel

Fundamental

```
                                              *RBW 1 MHz    Marker 1 [T1 ]
                                              *VBW 3 MHz            -50.84 dBm
         Ref -10 dBm           *Att  0 dB     SWT 270 ms      39.352000000 GHz
         -10 Offset  1 dB                                                      A
          -20
          -30                                                                 LVL
          -40
    1 PK
    MAXH  -50                                                        1
          -60
          -70                                                                  3DB
          -80
          -90
         -100
         -110
         Start 26.5 GHz              1.35 GHz/               Stop 40 GHz
```
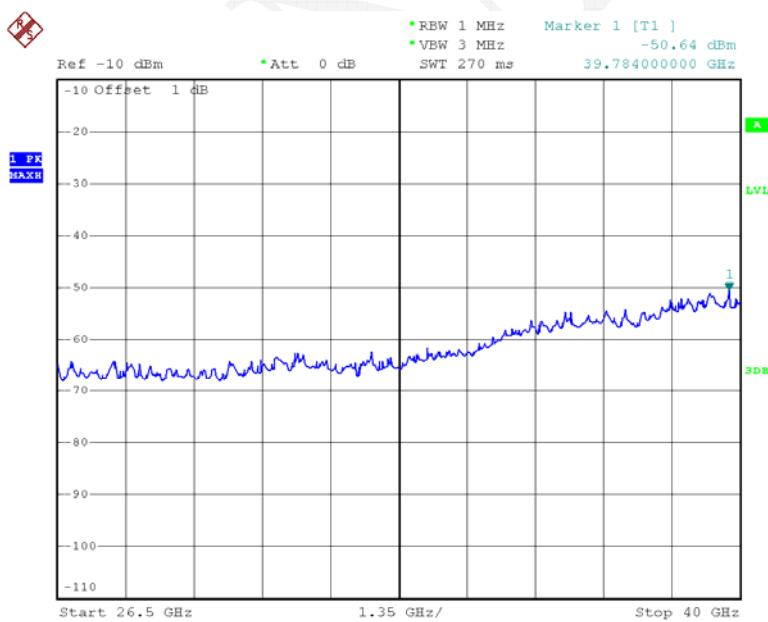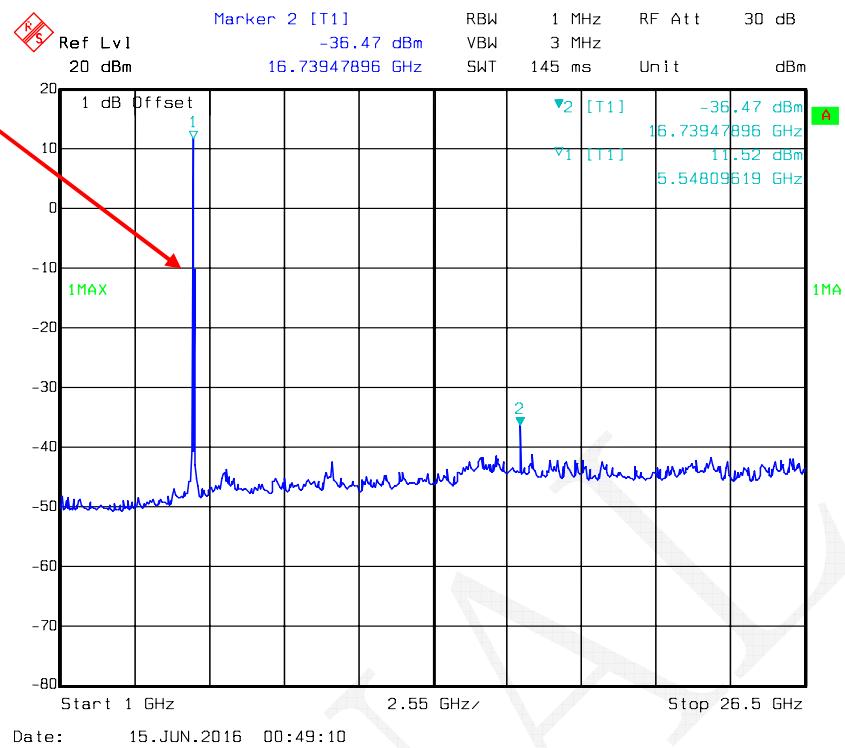
Date: 8.JUL.2016 23:21:25

Chain 0:802.11a Middle Channel
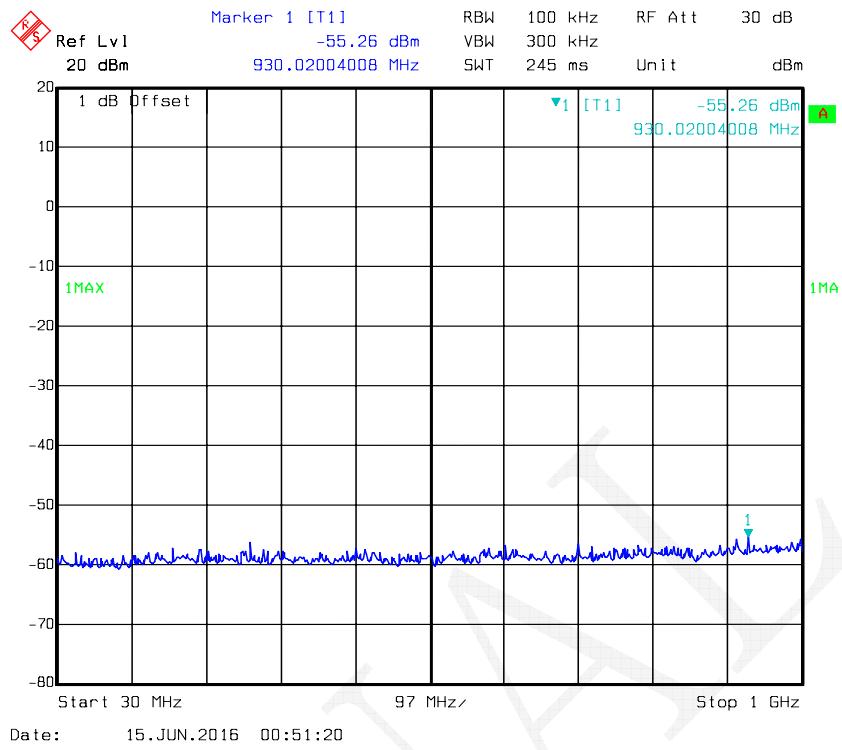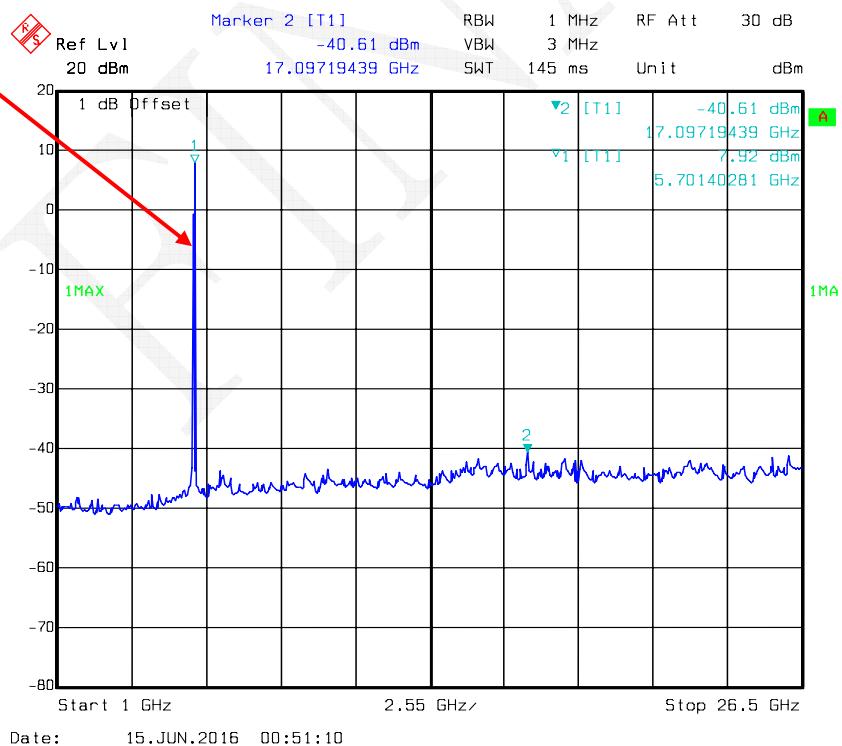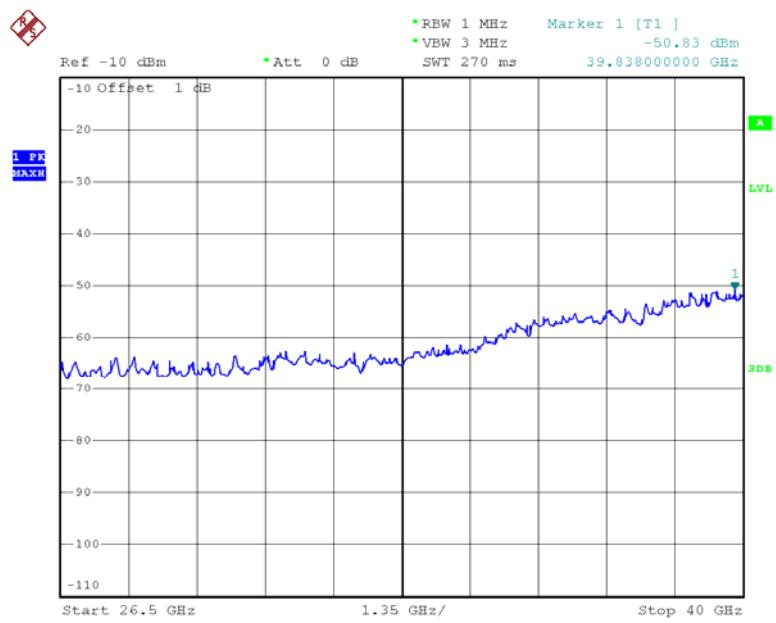

```
                          Marker 1 [T1]        RBW   100 kHz   RF Att   30 dB
             Ref Lvl              -55.91 dBm    VBW   300 kHz
             20 dBm        597.61523046 MHz     SWT   245 ms    Unit        dBm
          20   1 dB Offset                        ▼1 [T1]         -55.91 dBm  A
          10                                          597.61523046 MHz
           0
         -10
    1MAX                                                                     1MA
         -20
         -30
         -40
         -50                                             1
         -60
         -70
         -80
             Start 30 MHz           97 MHz/               Stop 1 GHz
         Date:      15.JUN.2016  00:49:21
```

Fundamental

Date:　　　15.JUN.2016　00:49:10
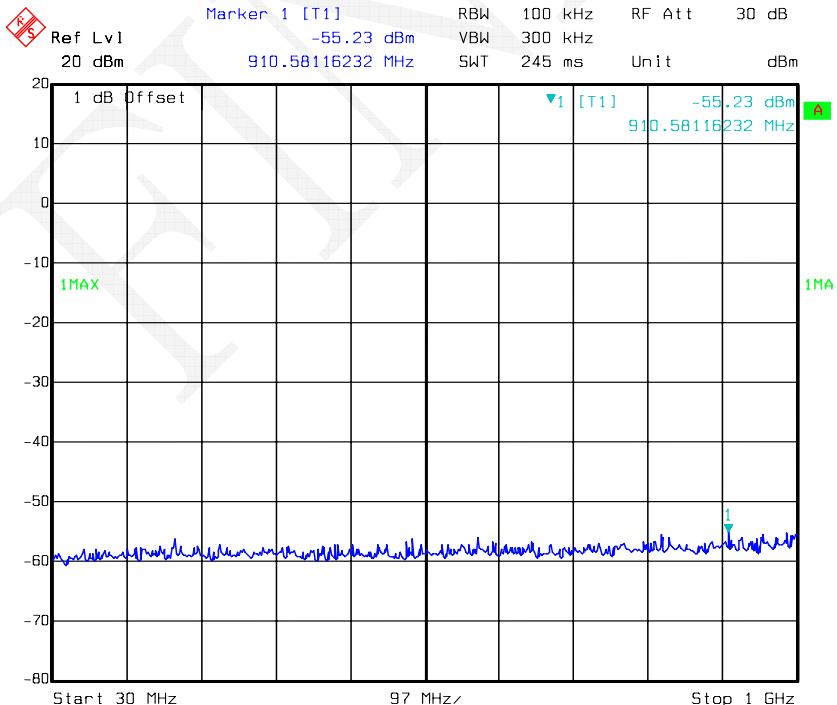
Date: 8.JUL.2016　23:21:31

Chain 0:802.11a High Channel

Date:　　　15.JUN.2016　00:51:20


Fundamental

Date:　　　15.JUN.2016　00:51:10
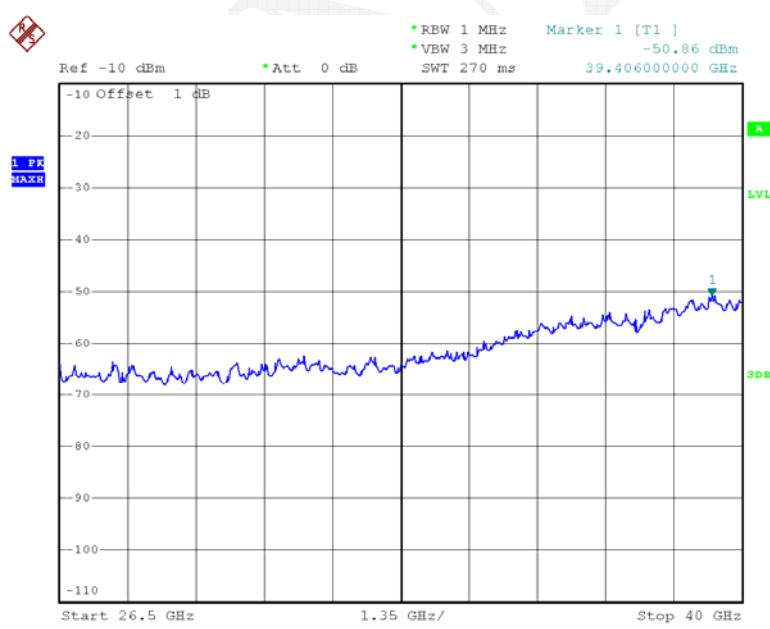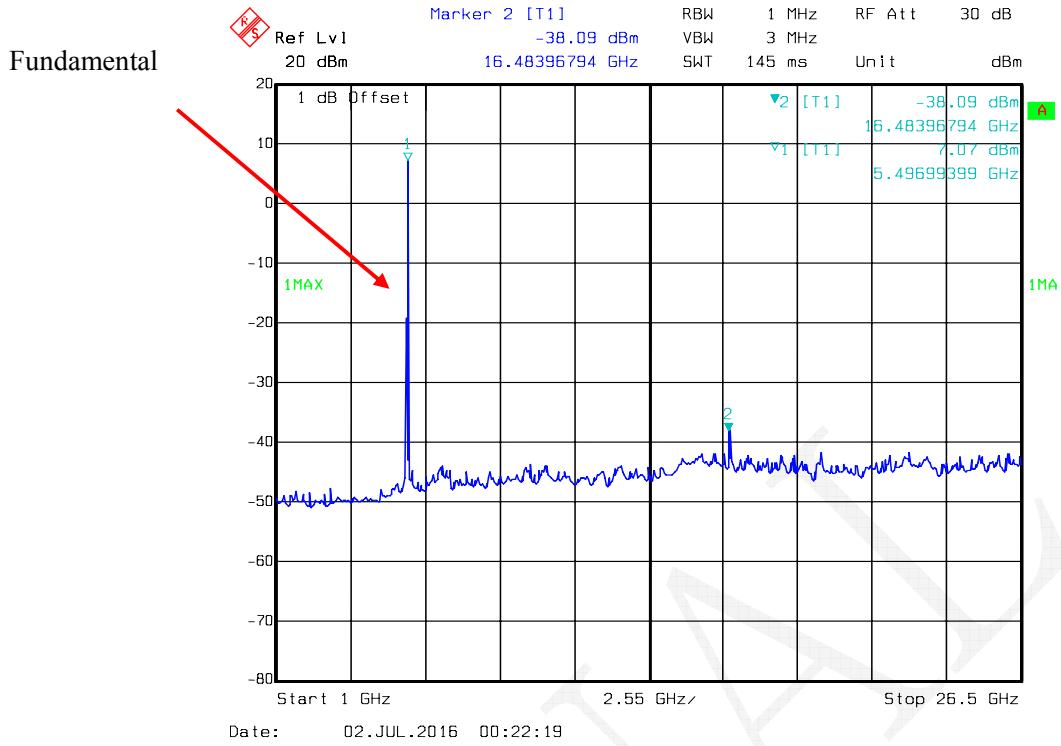
Date: 8.JUL.2016 23:21:41

Chain 0:802.11n ht20 Low Channel
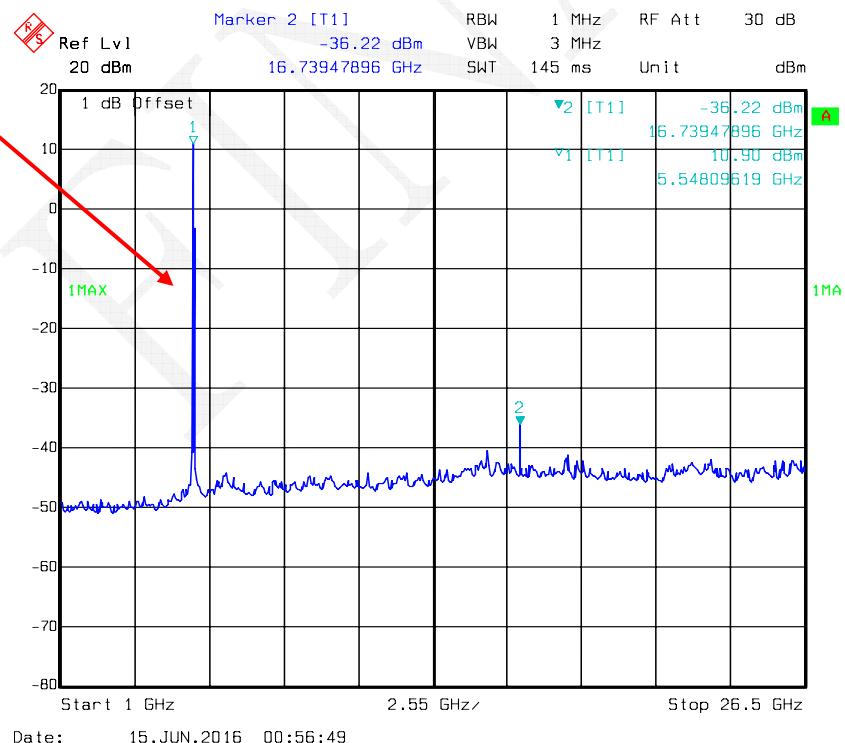
Date: 02.JUL.2016 00:22:29

Fundamental

Chain 0:802.11n ht20 Middle Channel

	Marker 1 [T1]		RBW	100 kHz	RF Att 30 dB
Ref Lvl	-55.60 dBm		VBW	300 kHz	
20 dBm	922.24448898 MHz		SWT	245 ms	Unit dBm

```
20
      1 dB Offset                          ▼1 [T1]      -55.60 dBm    A
10                                                  922.24448898 MHz
0
-10
      1MAX                                                          1MA
-20
-30
-40
-50                                                   1
-60
-70
-80
   Start 30 MHz              97 MHz/              Stop 1 GHz
```

Date: 15.JUN.2016 00:56:59

Fundamental

	Marker 2 [T1]		RBW	1 MHz	RF Att 30 dB
Ref Lvl	-36.22 dBm		VBW	3 MHz	
20 dBm	16.73947896 GHz		SWT	145 ms	Unit dBm

```
20
      1 dB Offset                          ▼2 [T1]      -36.22 dBm    A
10         1                                        16.73947896 GHz
            ▽                               ▼1 [T1]      10.90 dBm
0                                                   5.54809519 GHz
-10
      1MAX                                                          1MA
-20
-30                                   2
-40                                   ▼
-50
-60
-70
-80
   Start 1 GHz              2.55 GHz/             Stop 26.5 GHz
```

Date: 15.JUN.2016 00:56:49

Date: 8.JUL.2016 23:22:00

Chain 0:802.11n ht20 High Channel
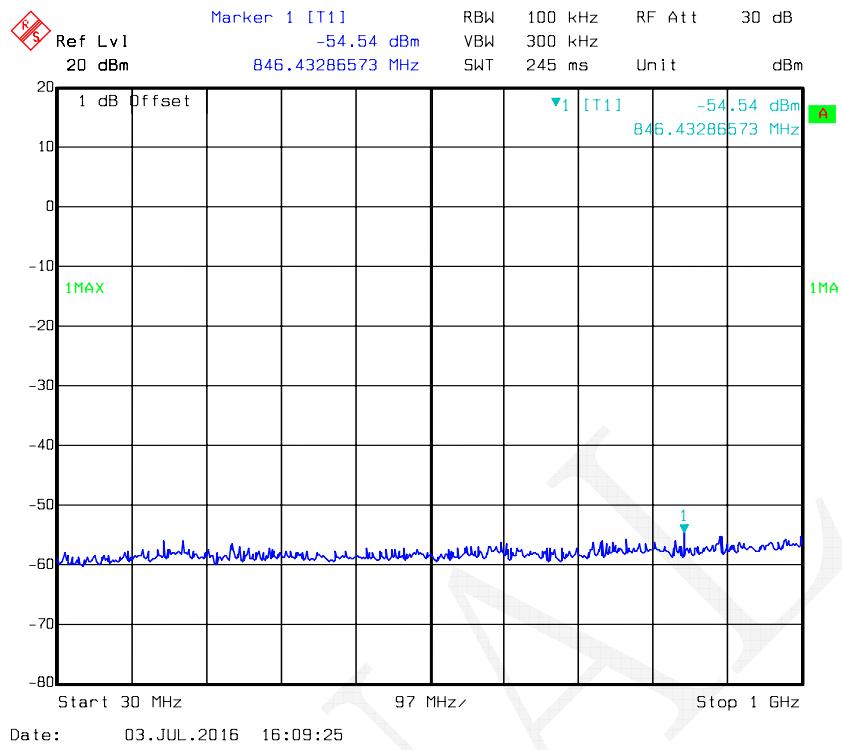
Date: 15.JUN.2016 00:59:37
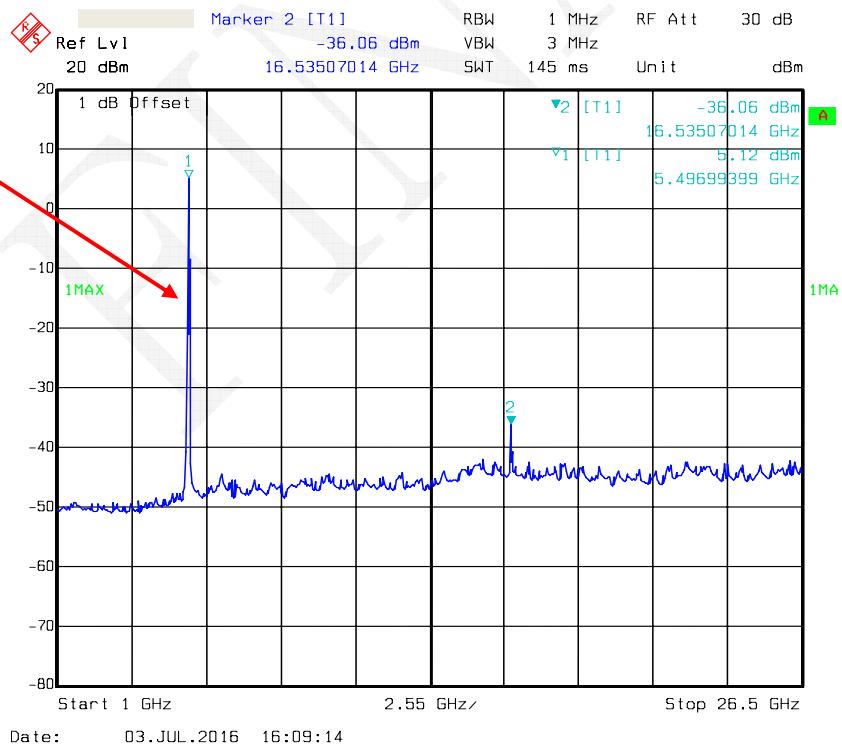
Fundamental

Date: 15.JUN.2016 00:59:27
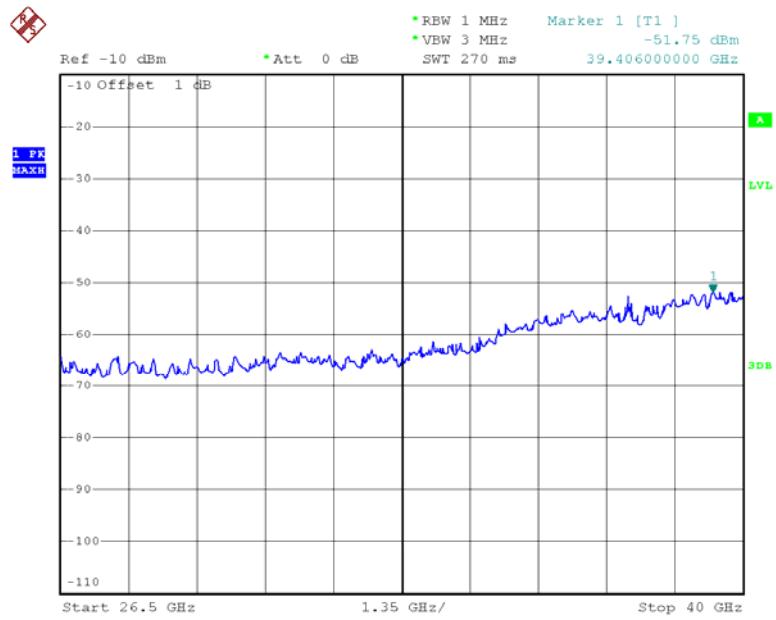
Date: 8.JUL.2016 23:22:07

Chain 0:802.11n ht40 Low Channel

	Marker 1 [T1]		RBW	100 kHz	RF Att	30 dB
Ref Lvl		-54.54 dBm	VBW	300 kHz		
20 dBm		846.43286573 MHz	SWT	245 ms	Unit	dBm

1 dB Offset

▼1 [T1]   -54.54 dBm
846.43286573 MHz

1MAX   1MA

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 03.JUL.2016 16:09:25

Fundamental

	Marker 2 [T1]		RBW	1 MHz	RF Att	30 dB
Ref Lvl		-36.06 dBm	VBW	3 MHz		
20 dBm		16.53507014 GHz	SWT	145 ms	Unit	dBm

1 dB Offset

▼2 [T1]   -36.06 dBm
16.53507014 GHz
▼1 [T1]   5.12 dBm
5.49699399 GHz

1MAX   1MA

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 03.JUL.2016 16:09:14

Date: 8.JUL.2016 23:22:13

Chain 0:802.11n ht40 Middle Channel
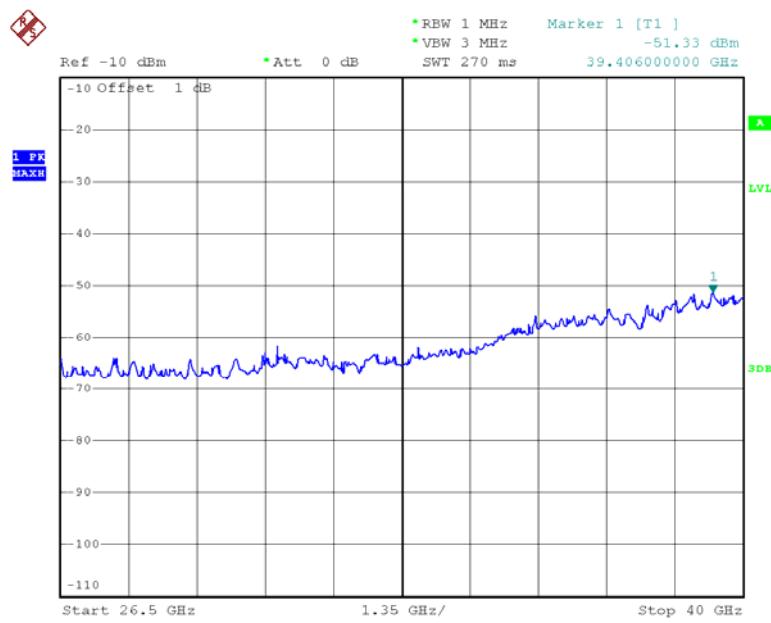
Date: 03.JUL.2016 16:15:07

Fundamental

Chain 0:802.11n ht40 High Channel


```
      Marker 1 [T1]              RBW    100 kHz    RF Att    30 dB
Ref Lvl          -55.41 dBm      VBW    300 kHz
20 dBm      1.00000000 GHz       SWT    245 ms     Unit         dBm
```

Date: 15.JUN.2016 01:06:23

Fundamental


```
      Marker 2 [T1]              RBW    1 MHz      RF Att    30 dB
Ref Lvl          -40.81 dBm      VBW    3 MHz
20 dBm      18.32364729 GHz      SWT    145 ms     Unit         dBm
```
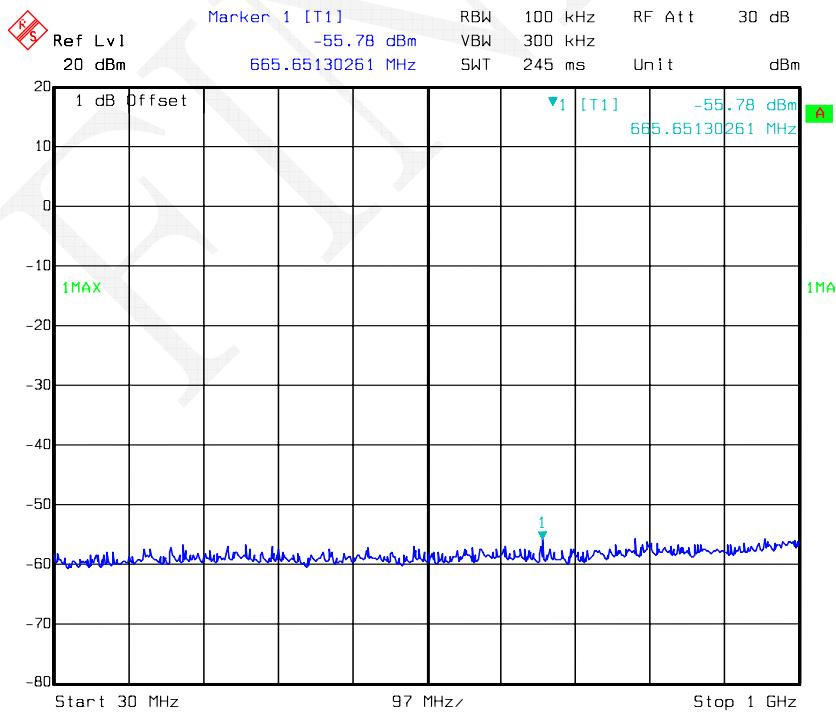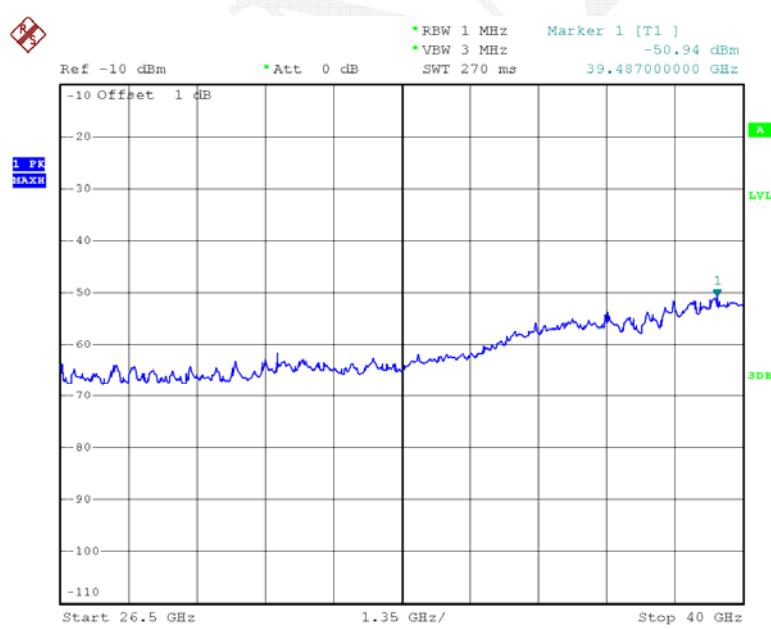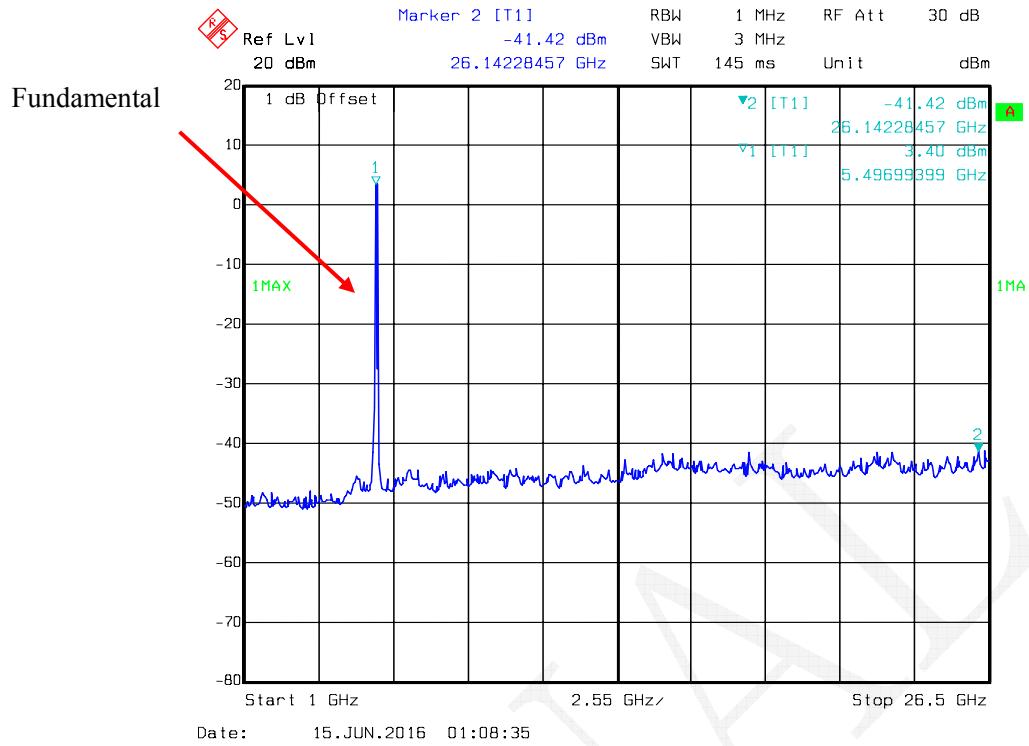
Date: 15.JUN.2016 01:06:11
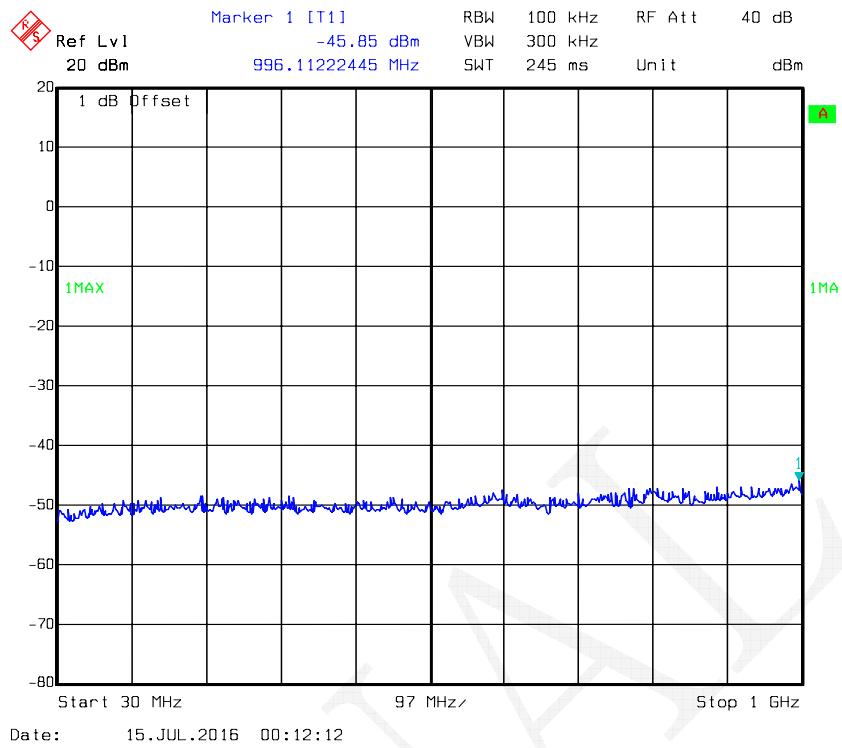
Date: 8.JUL.2016   23:22:25

Chain 0:802.11n ac80 Low Channel

Date: 15.JUN.2016   01:08:46
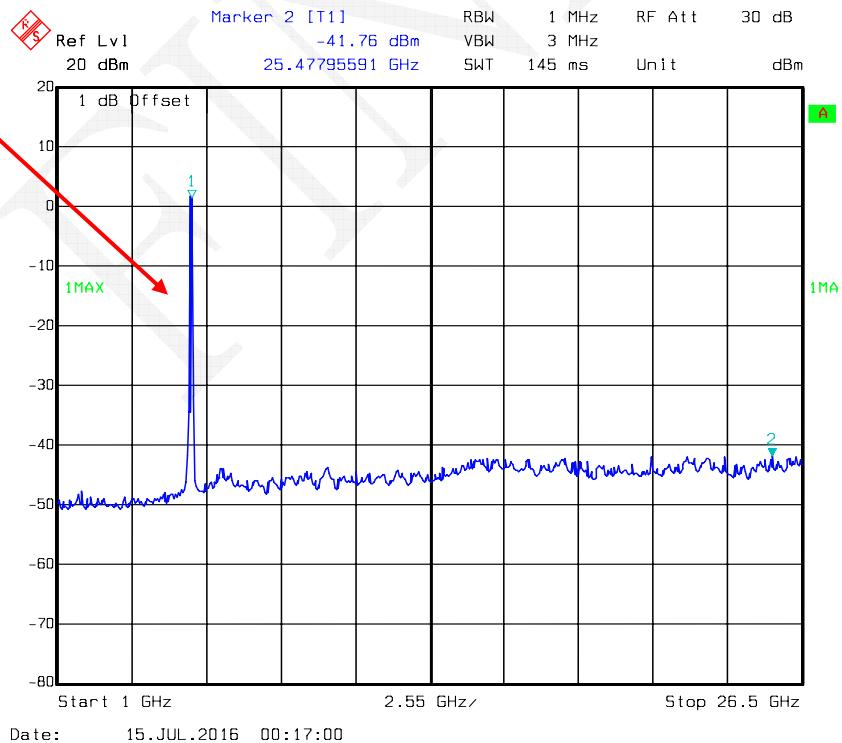
Fundamental

Date: 15.JUN.2016   01:08:35
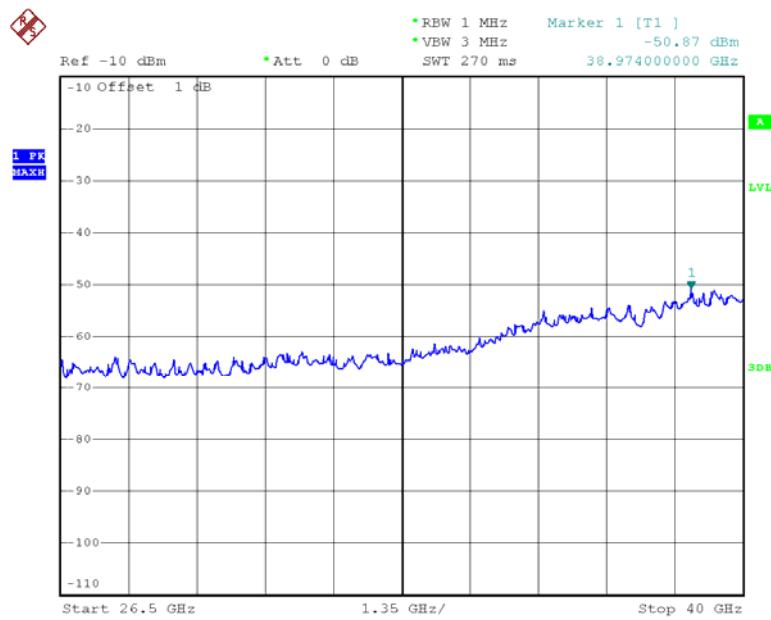
Date: 8.JUL.2016 23:22:32

Chain 0:802.11n ac80 High Channel

	Marker 1 [T1]	RBW	100 kHz	RF Att	40 dB
Ref Lvl	-45.85 dBm	VBW	300 kHz	
20 dBm	996.11222445 MHz	SWT	245 ms	Unit	dBm

1 dB Offset

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 15.JUL.2016 00:12:12

	Marker 2 [T1]	RBW	1 MHz	RF Att	30 dB
Ref Lvl	-41.76 dBm	VBW	3 MHz	
20 dBm	25.47795591 GHz	SWT	145 ms	Unit	dBm

Fundamental

1 dB Offset

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 15.JUL.2016 00:17:00
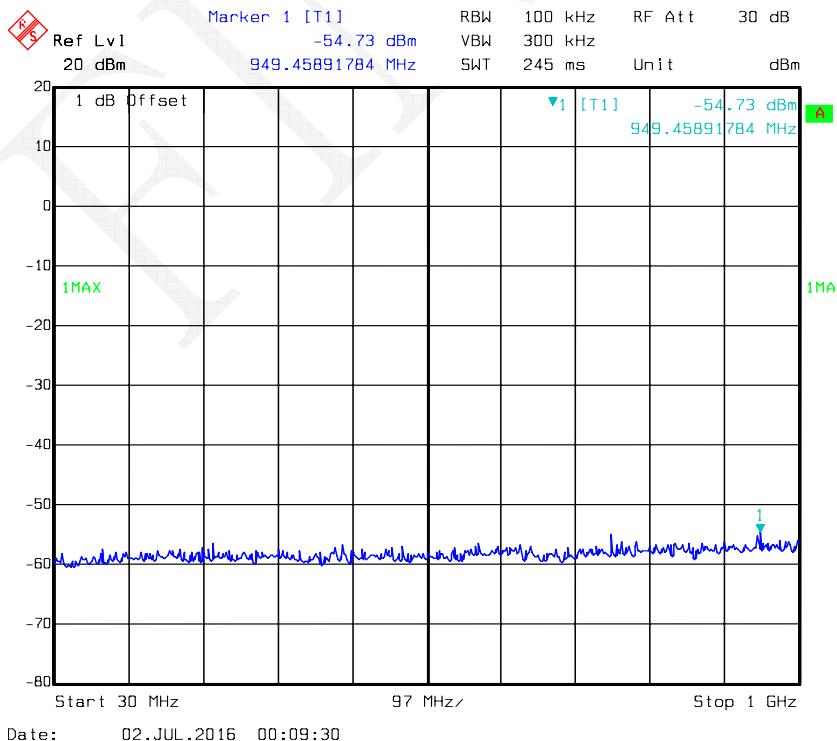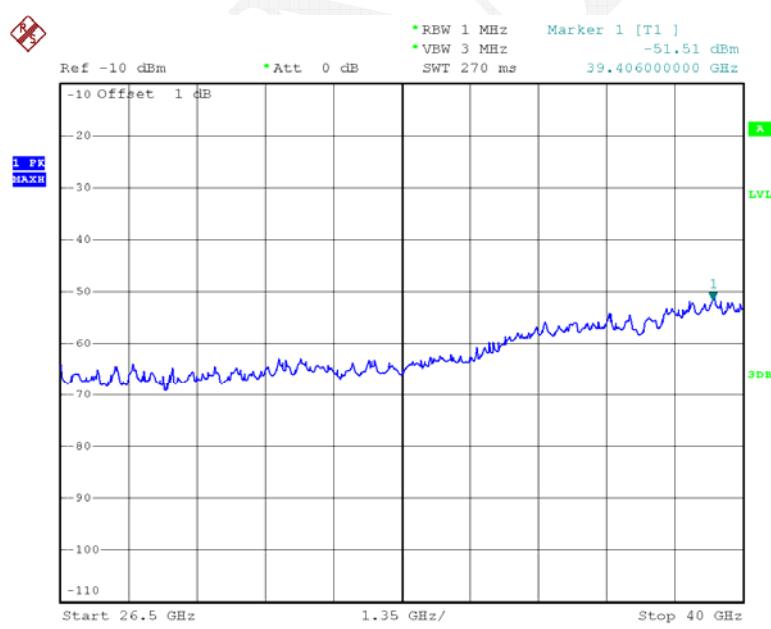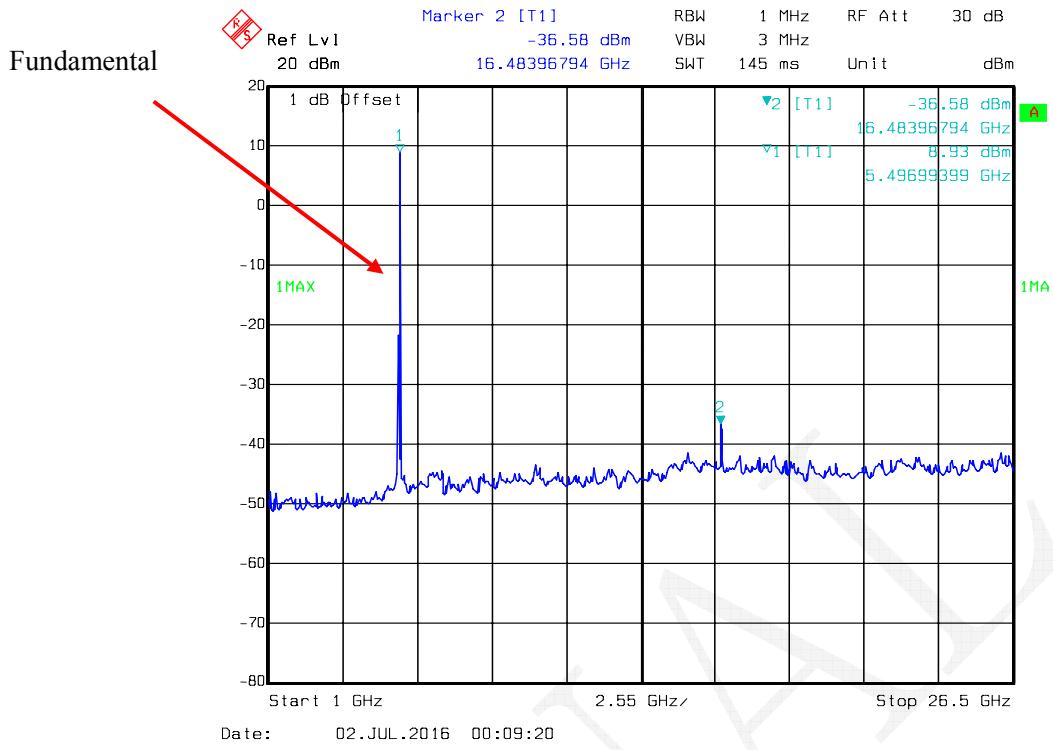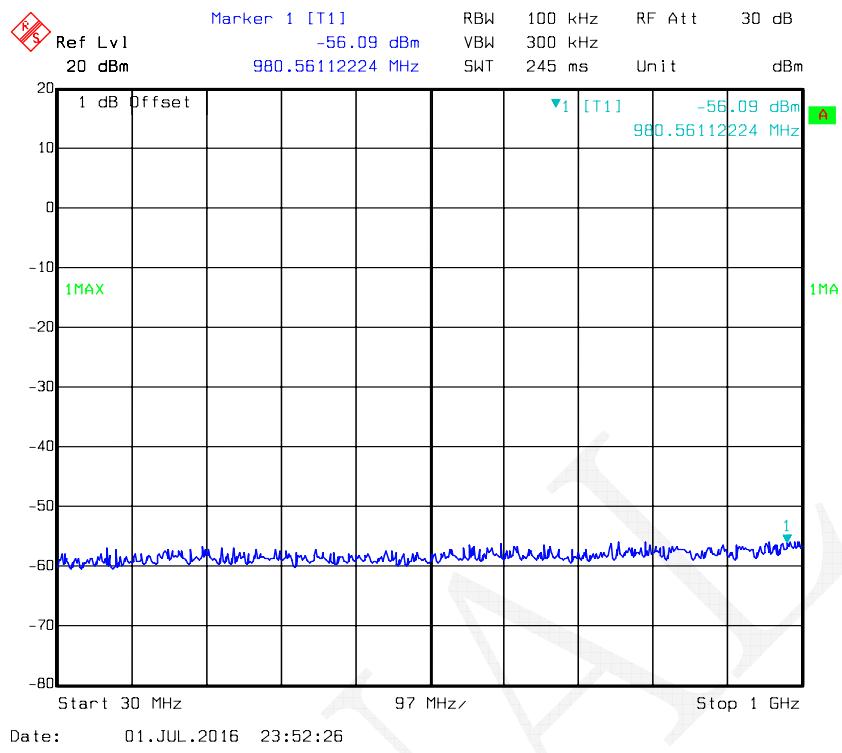
Date: 8.JUL.2016 23:09:01

Chain 1:802.11a Low Channel

Date: 02.JUL.2016 00:09:30
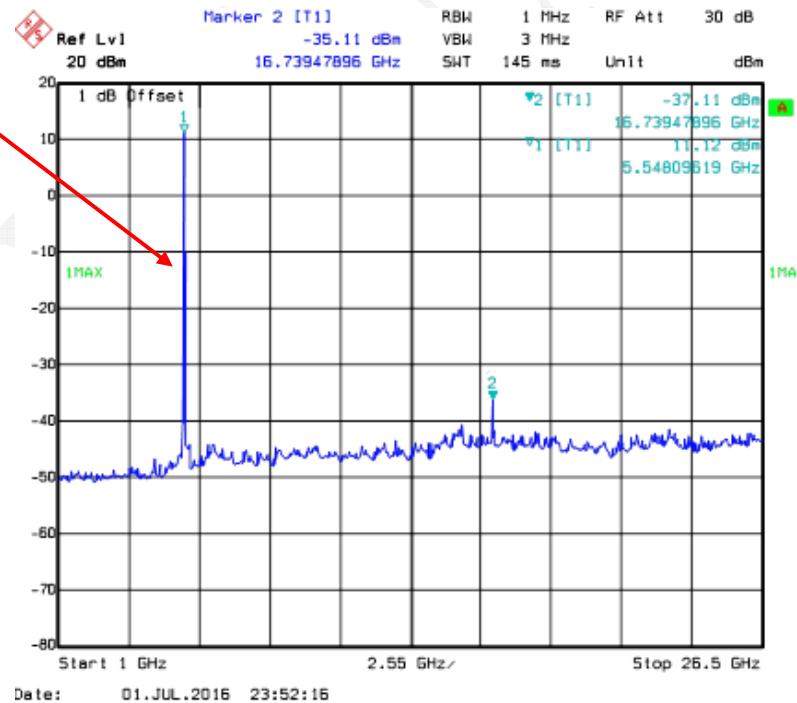
Fundamental

Date: 02.JUL.2016 00:09:20
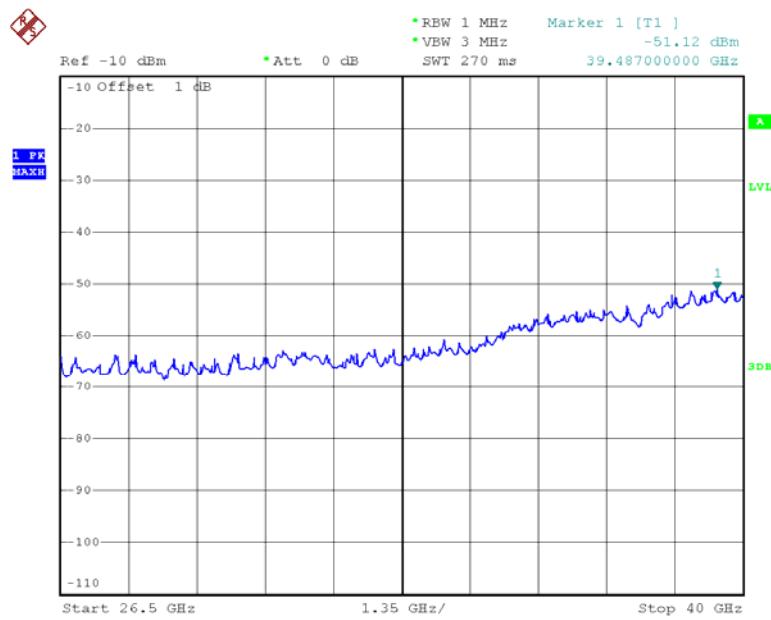
Date: 8.JUL.2016 23:22:39

Chain 1:802.11a Middle Channel

Fundamental

```
                                    * RBW 1 MHz      Marker 1 [T1 ]
                                    * VBW 3 MHz               -51.12 dBm
  Ref -10 dBm          * Att  0 dB   SWT 270 ms        39.487000000 GHz
  -10 Offset  1 dB
  -20
  -30
  -40
  -50                                                                  1
  -60
  -70
  -80
  -90
  -100
  -110
  Start 26.5 GHz              1.35 GHz/              Stop 40 GHz
```
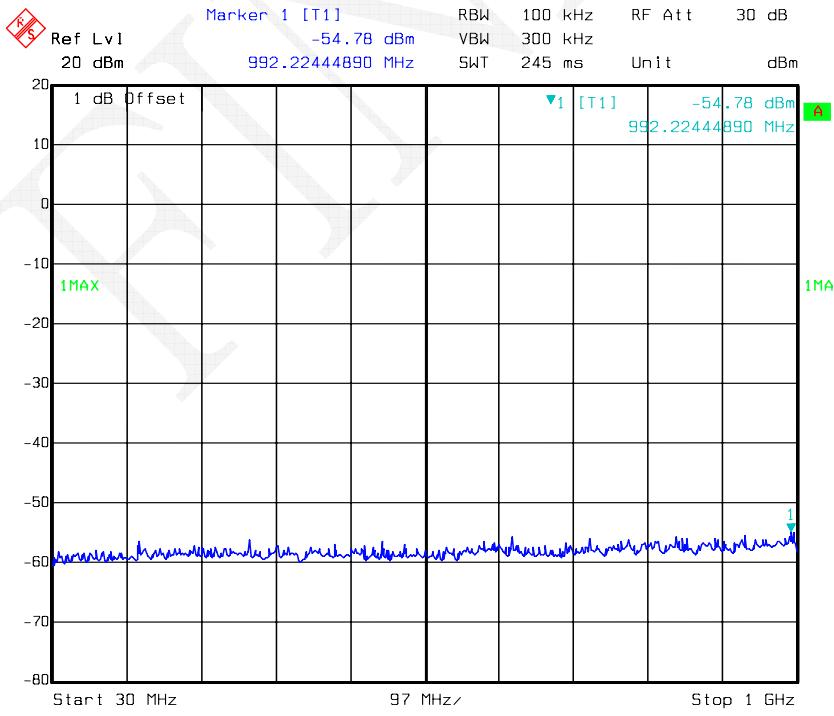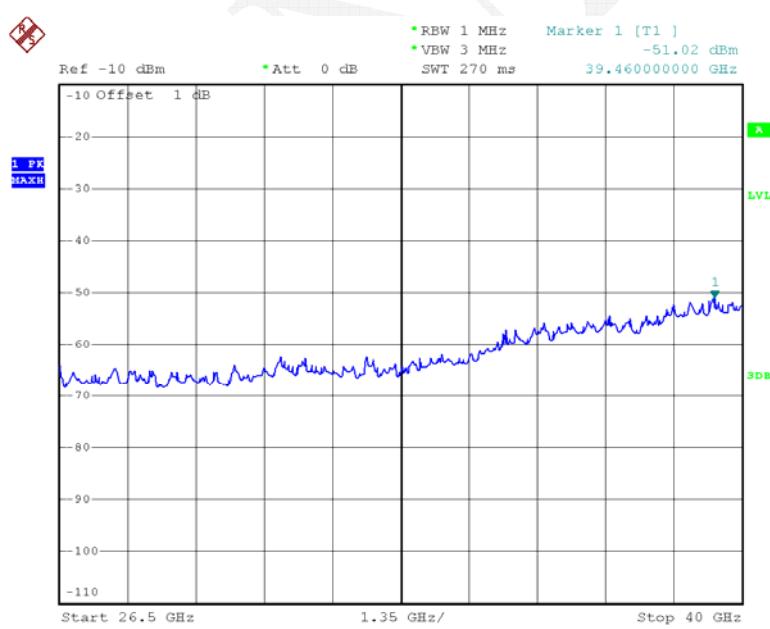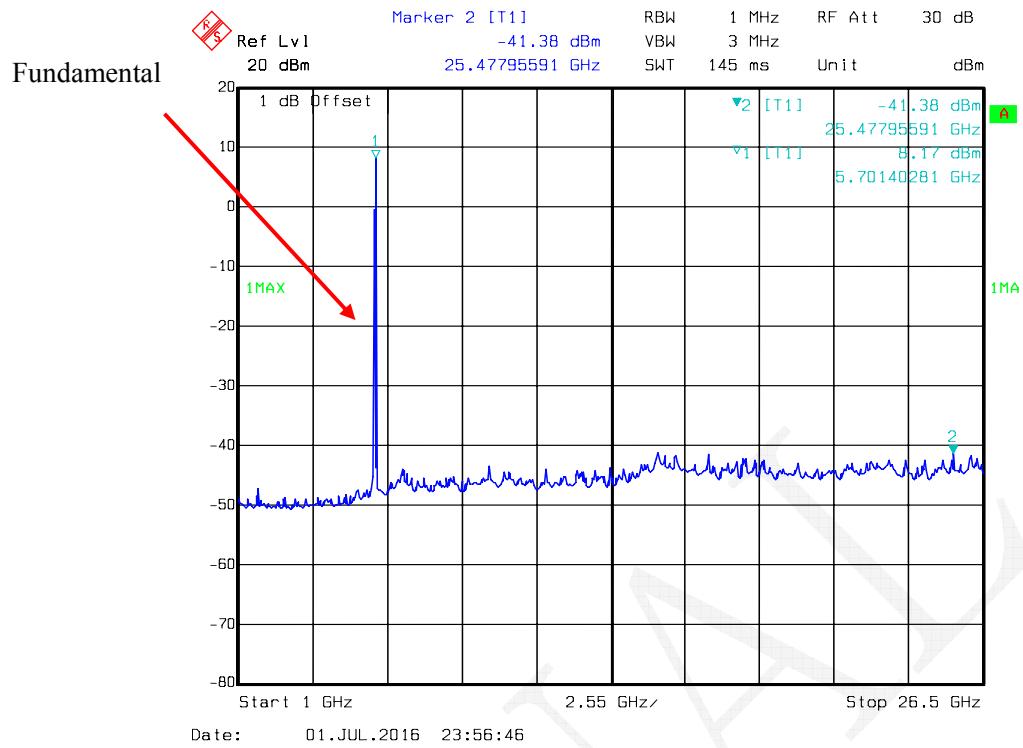
Date: 8.JUL.2016   23:22:46

Chain 1:802.11a High Channel

```
                        Marker 1 [T1]          RBW    100 kHz   RF Att    30 dB
      Ref Lvl                 -54.78 dBm       VBW    300 kHz
      20 dBm           992.22444890 MHz        SWT    245 ms    Unit         dBm
  20
      1 dB Offset                              ▼1 [T1]         -54.78 dBm
  10                                              992.22444890 MHz
  0
  -10
  1MAX                                                                   1MA
  -20
  -30
  -40
  -50                                                                     1
  -60
  -70
  -80
      Start 30 MHz              97 MHz/               Stop 1 GHz
  Date:      01.JUL.2016   23:56:57
```

Fundamental

Marker 2 [T1]		RBW	1 MHz	RF Att	30 dB
Ref Lvl	-41.38 dBm	VBW	3 MHz		
20 dBm	25.47795591 GHz	SWT	145 ms	Unit	dBm

1 dB Offset

▼2 [T1]   -41.38 dBm
            25.47795591 GHz
▼1 [T1]   8.17 dBm
            5.70140281 GHz

A

1MAX   1MA

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 01.JUL.2016 23:56:46

*RBW 1 MHz	Marker 1 [T1]		
*VBW 3 MHz	-51.02 dBm		
Ref -10 dBm	*Att 0 dB	SWT 270 ms	39.460000000 GHz

-10 Offset 1 dB

A

1 PK
MAXH

LVL

3DB

Start 26.5 GHz   1.35 GHz/   Stop 40 GHz

Date: 8.JUL.2016 23:22:51

Chain 1:802.11n ht20 Low Channel
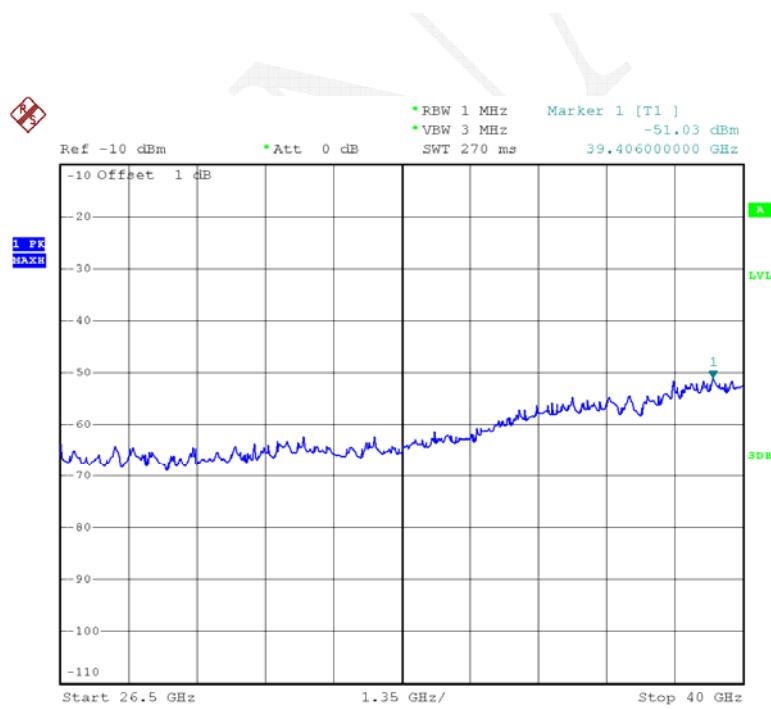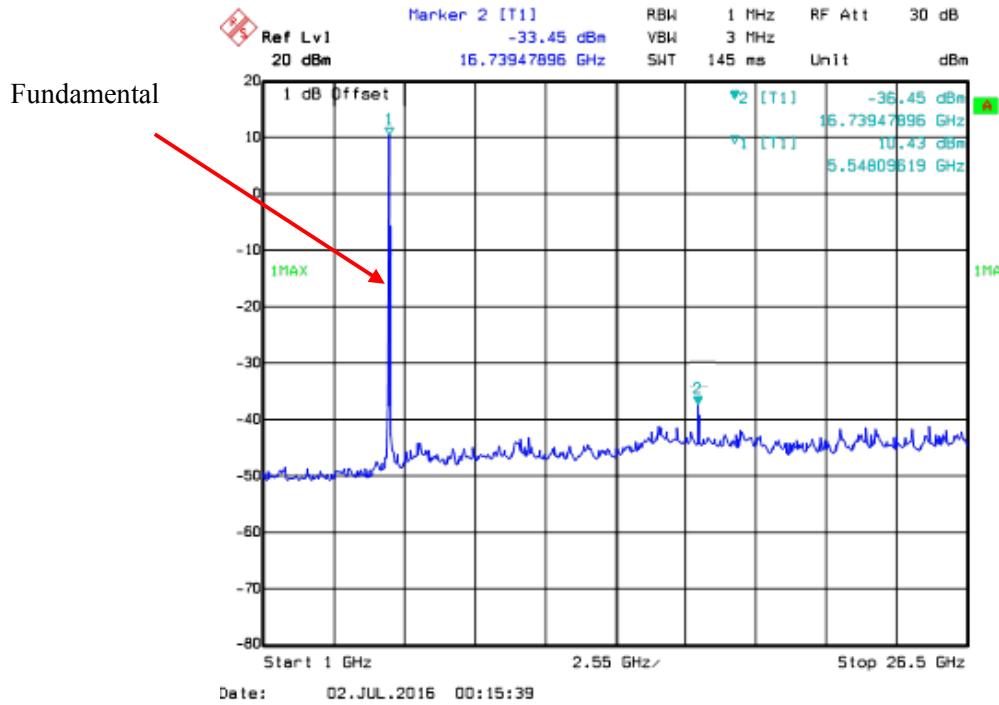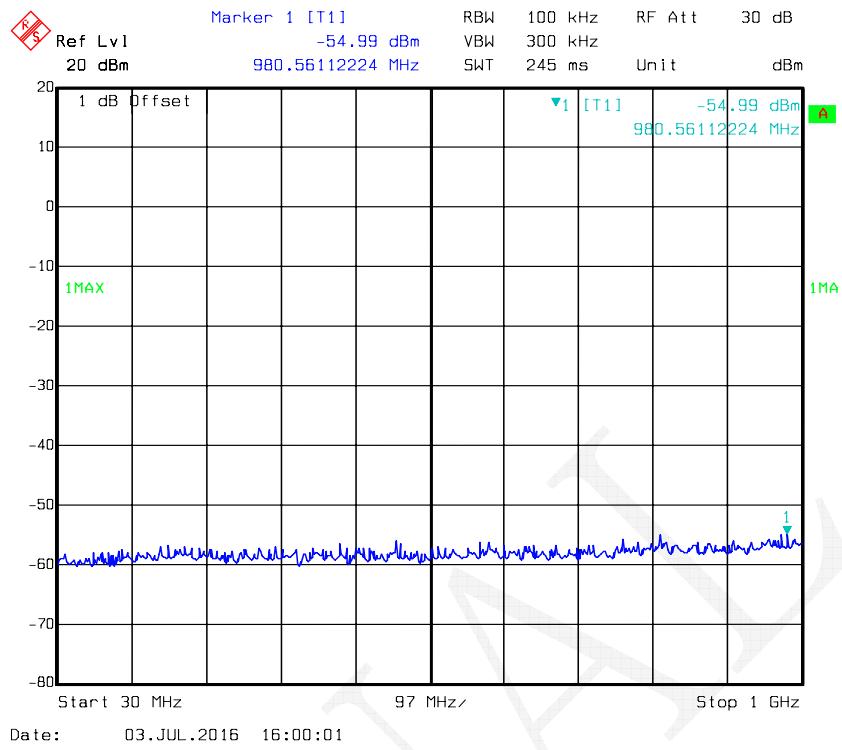
Fundamental

Date: 8.JUL.2016 23:22:56
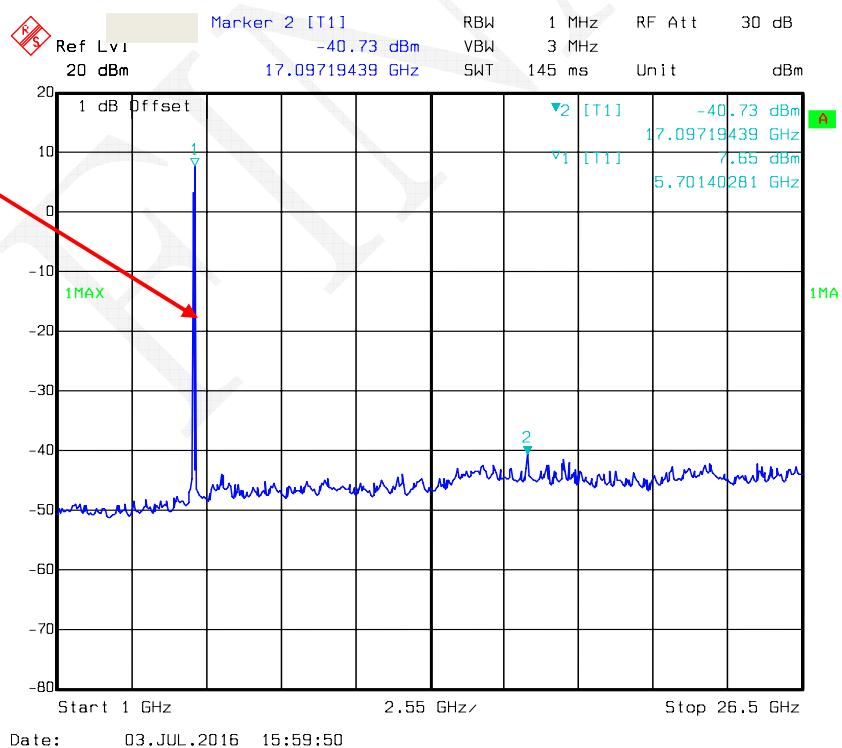
Chain 1:802.11n ht20 Middle Channel
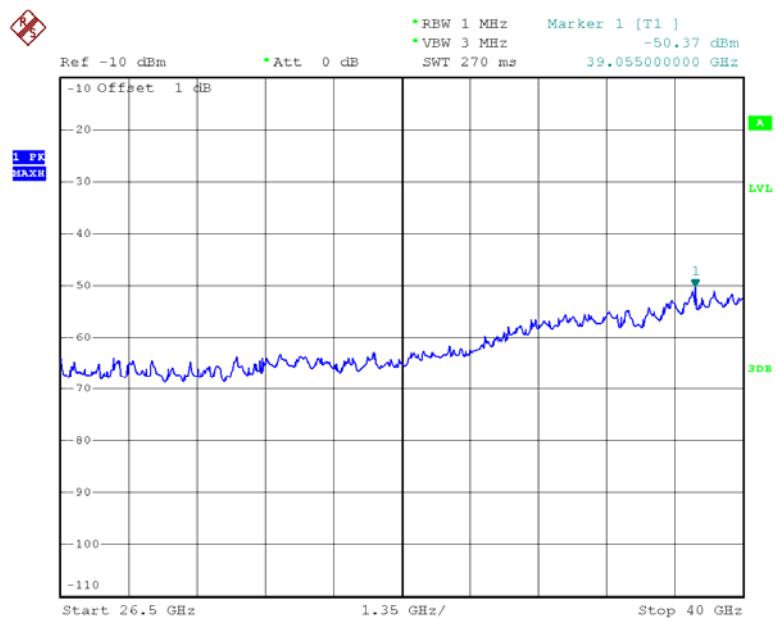
Date: 02.JUL.2016 00:15:49

Fundamental

Chain 1:802.11n ht20 High Channel
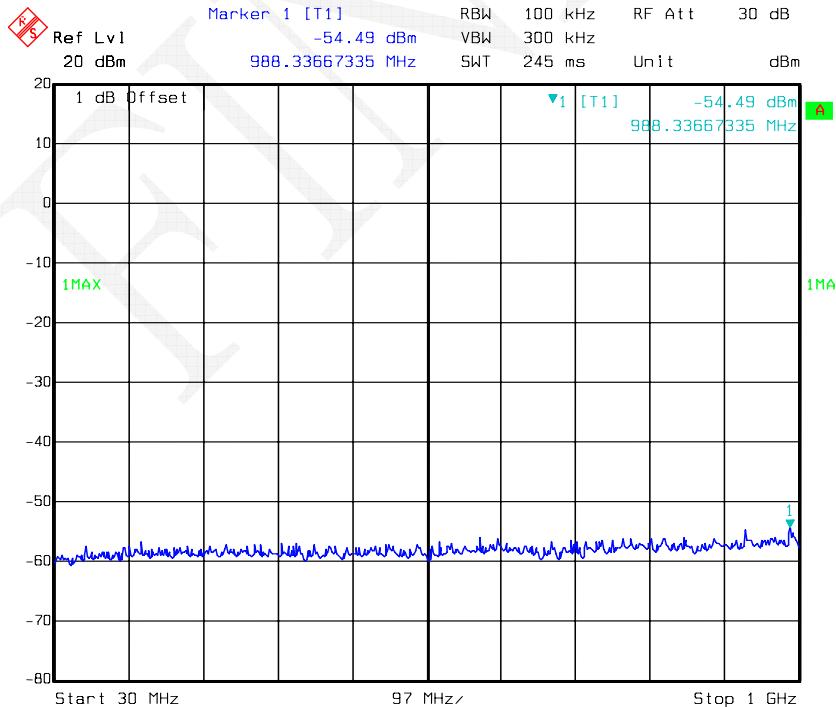
Fundamental
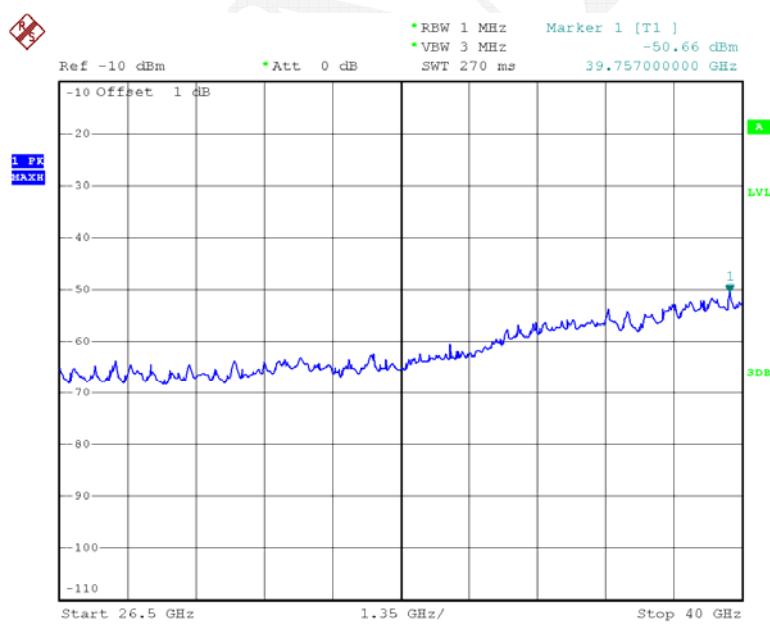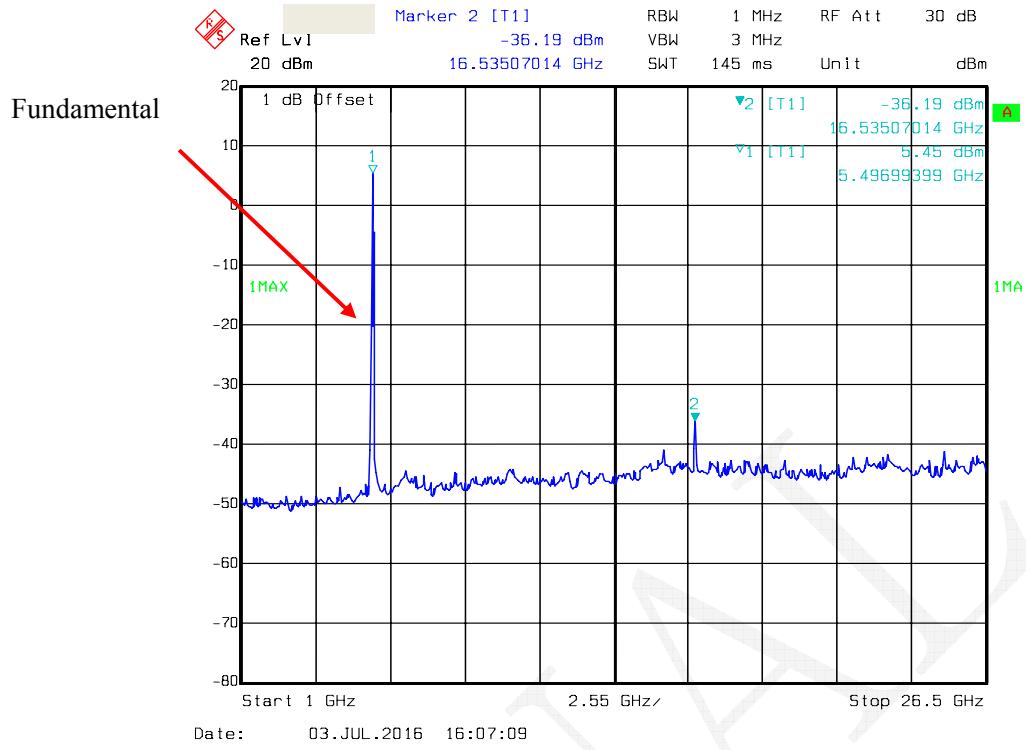
Date: 8.JUL.2016 23:23:10

Chain 1:802.11n ht40 Low Channel

Date: 03.JUL.2016 16:07:20

Fundamental

Ref Lvl	Marker 2 [T1]	RBW 1 MHz RF Att 30 dB
20 dBm	-36.19 dBm	VBW 3 MHz
	16.53507014 GHz	SWT 145 ms Unit dBm

1 dB Offset

▼2 [T1] -36.19 dBm
16.53507014 GHz
▼1 [T1] 5.45 dBm
5.49699399 GHz

1MAX

1MA

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 03.JUL.2016 16:07:09

	*RBW 1 MHz	Marker 1 [T1]
	*VBW 3 MHz	-50.66 dBm
Ref -10 dBm	*Att 0 dB	SWT 270 ms 39.757000000 GHz

-10 Offset 1 dB

1 PK
MAXH

LVL

3DB

Start 26.5 GHz   1.35 GHz/   Stop 40 GHz
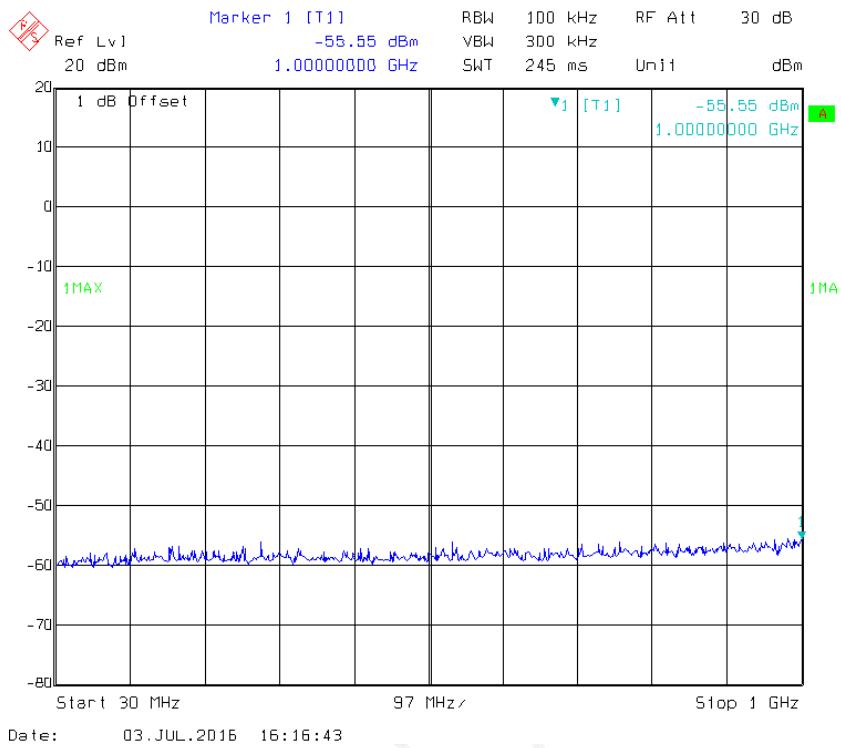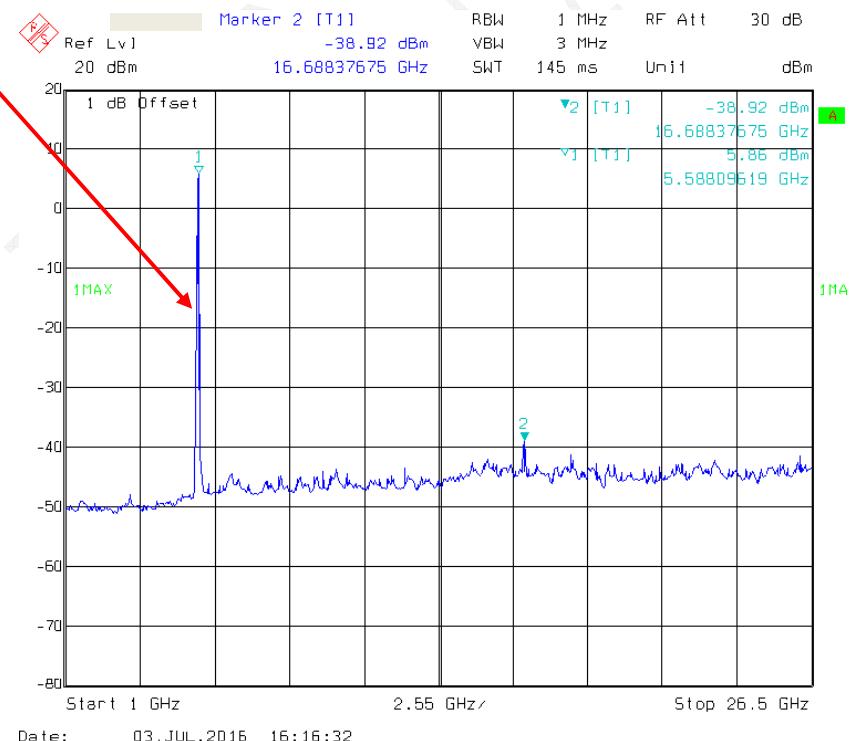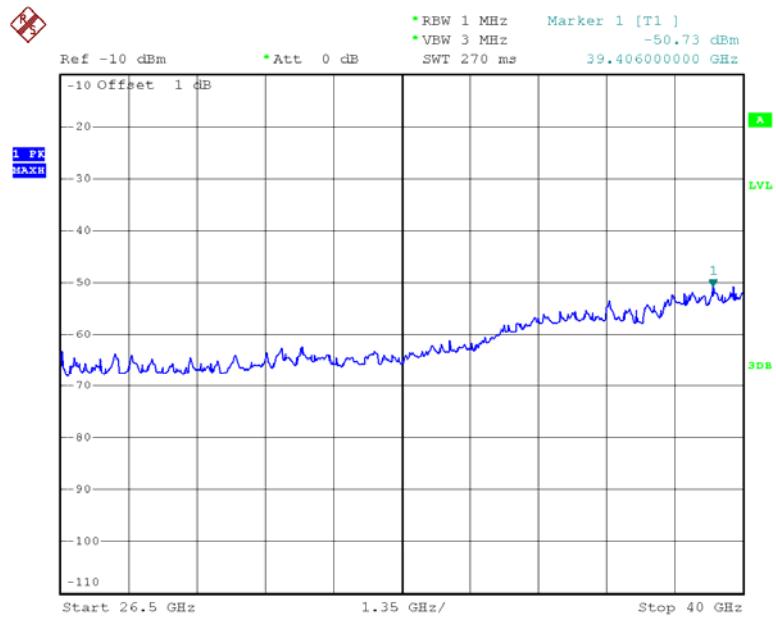
Date: 8.JUL.2016 23:23:19
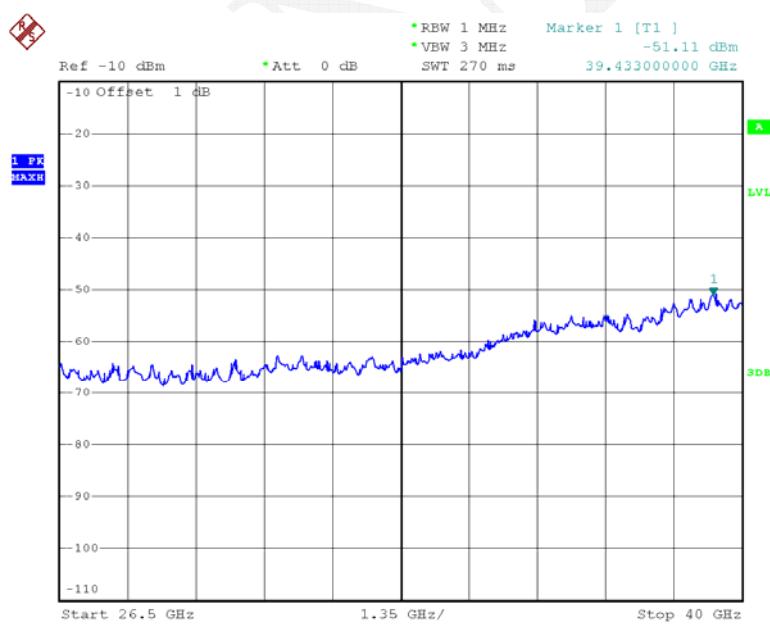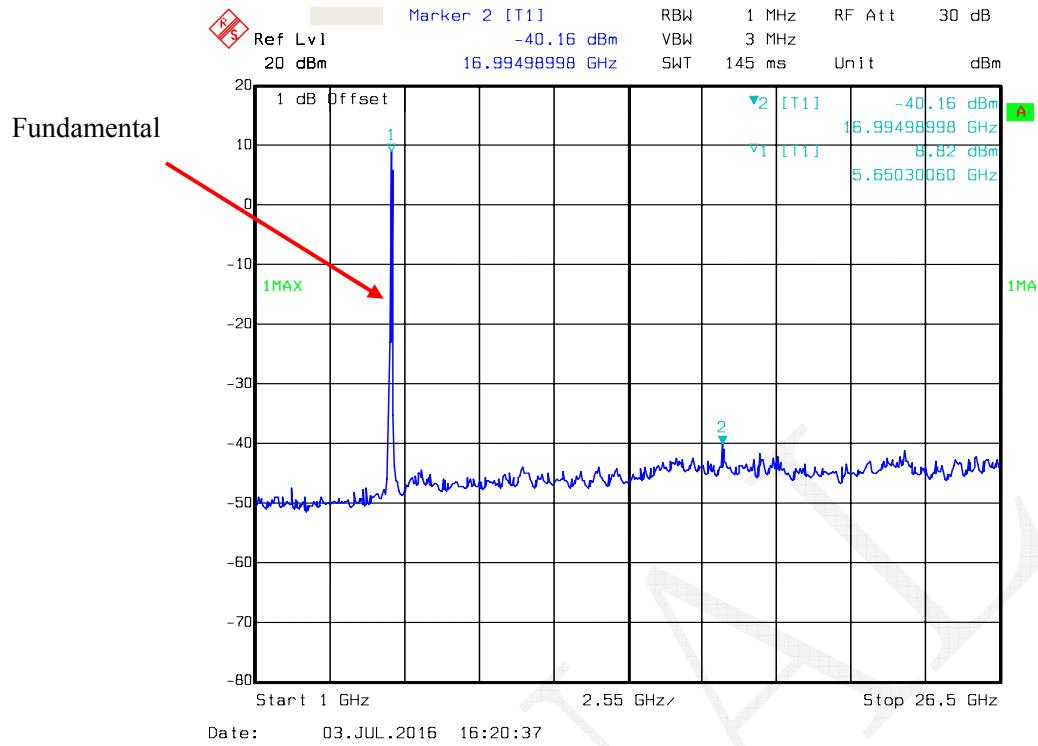
Chain 1:802.11n ht40 Middle Channel

Fundamental

```
                                             *RBW 1 MHz    Marker 1 [T1 ]
                                             *VBW 3 MHz            -50.73 dBm
              Ref -10 dBm        *Att  0 dB   SWT 270 ms        39.406000000 GHz
```

-10 Offset 1 dB

Start 26.5 GHz　　　　　　1.35 GHz/　　　　　　Stop 40 GHz
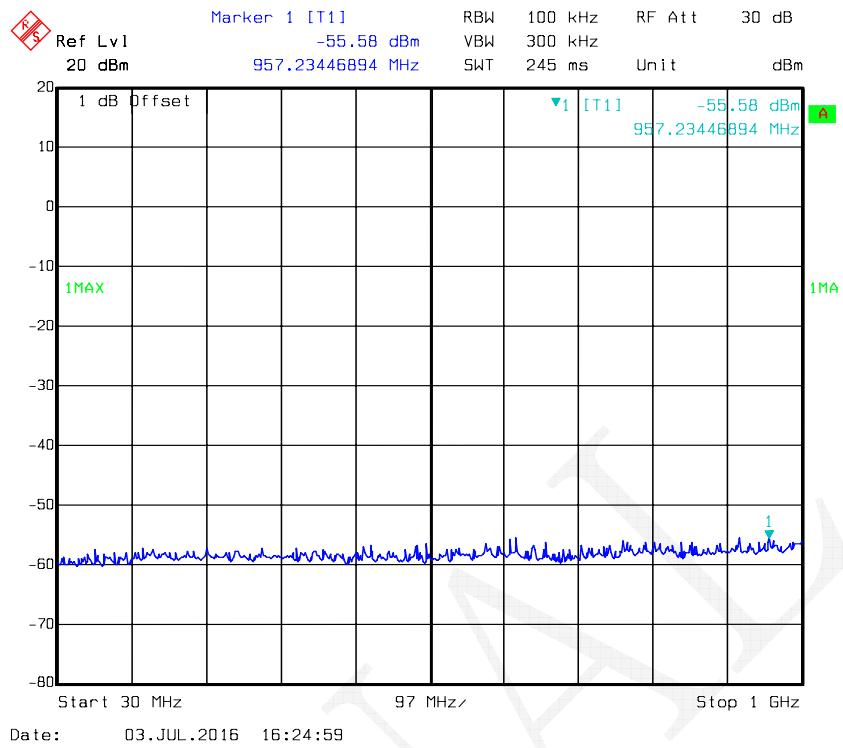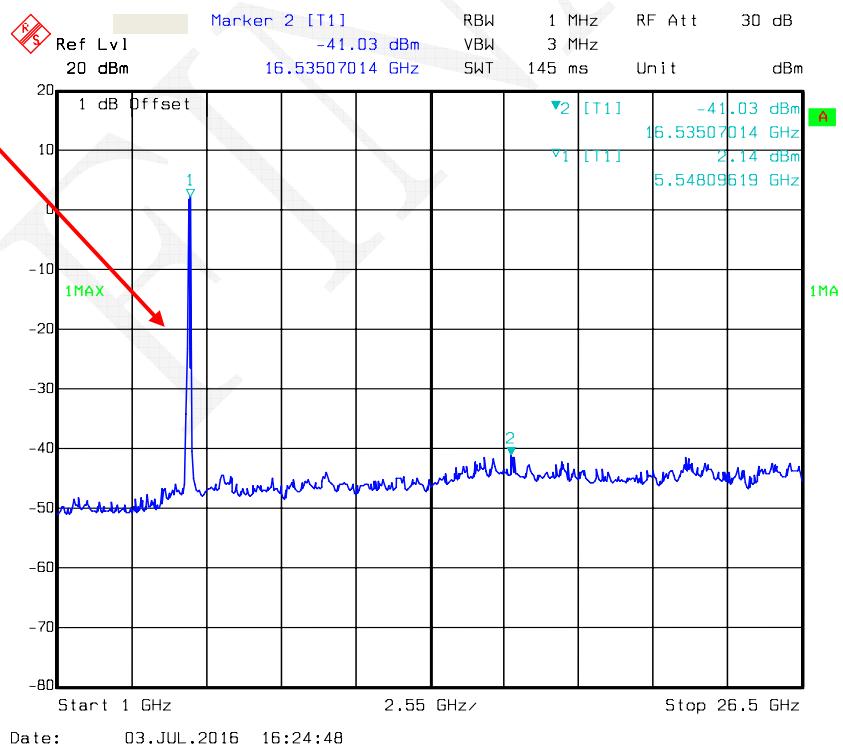
Date: 8.JUL.2016 23:23:26

Chain 1:802.11n ht40 High Channel

```
                        Marker 1 [T1]        RBW    100 kHz   RF Att    30 dB
              Ref Lvl              -54.95 dBm  VBW    300 kHz
              20 dBm         1.00000000 GHz   SWT    245 ms    Unit       dBm
```

1 dB Offset

▼1 [T1]　　　　　-54.95 dBm
1.00000000 GHz

1MAX　　　　　　　　　　　　　　　　　　　　1MA

Start 30 MHz　　　　　　97 MHz/　　　　　　Stop 1 GHz

Date: 03.JUL.2016 16:20:48

Fundamental

Marker 2 [T1]   RBW   1 MHz   RF Att   30 dB
Ref Lvl   -40.16 dBm   VBW   3 MHz
20 dBm   16.99498998 GHz   SWT   145 ms   Unit   dBm

1 dB Offset   ▼2 [T1]   -40.16 dBm
                                                      16.99498998 GHz
                                               ▼1 [T1]   8.82 dBm
                                                       5.65030060 GHz

1MAX   1MA

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz
Date: 03.JUL.2016   16:20:37

*RBW 1 MHz   Marker 1 [T1]
*VBW 3 MHz   -51.11 dBm
Ref -10 dBm   *Att   0 dB   SWT 270 ms   39.433000000 GHz

-10 Offset   1 dB

1 PK
MAXH   LVL

                                                                 3DB

Start 26.5 GHz   1.35 GHz/   Stop 40 GHz

Date: 8.JUL.2016 23:23:33

Chain 1:802.11n ac80 Low Channel

Fundamental

```
                              *RBW 1 MHz    Marker 1 [T1 ]
                              *VBW 3 MHz            -51.18 dBm
Ref -10 dBm         *Att  0 dB    SWT 270 ms     39.406000000 GHz
```

Date: 8.JUL.2016 23:23:39

Chain 1:802.11n ac80 High Channel

```
                     Marker 1 [T1]        RBW   100 kHz    RF Att    40 dB
         Ref Lvl           -46.22 dBm     VBW   300 kHz
         20 dBm      986.39278557 MHz     SWT   245 ms     Unit        dBm
```


Date: 15.JUL.2016 00:12:05

Fundamental

```
                    Marker 2 [T1]           RBW    1 MHz    RF Att    30 dB
          Ref Lvl              -41.23 dBm   VBW    3 MHz
          20 dBm         26.09118236 GHz    SWT   145 ms    Unit        dBm

    20   1 dB Offset                                                      A
    10
     0                    1
                          ▽
   -10
        1MAX                                                           1MA
   -20
   -30
   -40                                                      2
                                                            ▽
   -50
   -60
   -70
   -80
        Start 1 GHz              2.55 GHz/           Stop 26.5 GHz
      Date:     15.JUL.2016  00:16:51
```

```
                               *RBW 1 MHz     Marker 1 [T1 ]
                               *VBW 3 MHz               -50.07 dBm
          Ref -10 dBm     *Att  0 dB   SWT 270 ms     39.406000000 GHz
     -10 Offset   1 dB                                                 A
    -20
  1 PK
  MAXH-30                                                            LVL
    -40
    -50                                              1
                                                     ▽
    -60                                                             3DB
    -70
    -80
    -90
   -100
   -110
        Start 26.5 GHz            1.35 GHz/           Stop 40 GHz


      Date: 8.JUL.2016  23:10:14
```
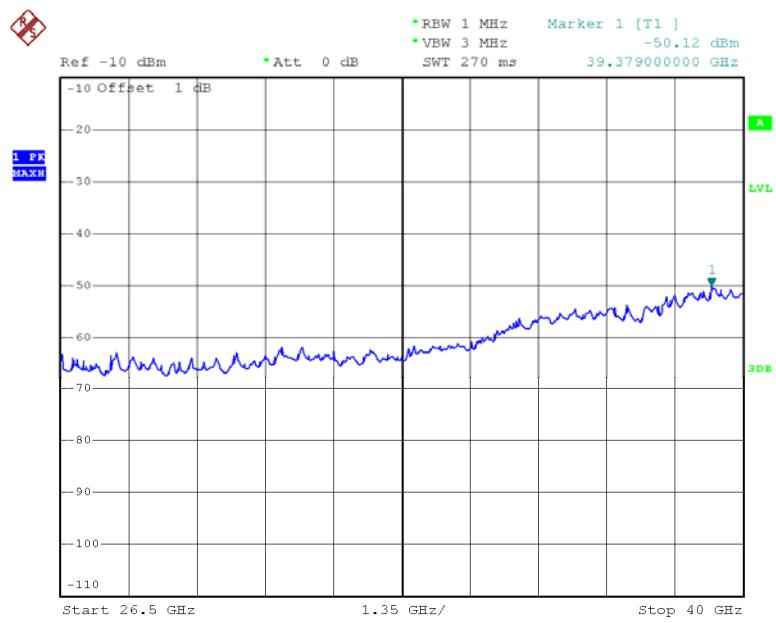
Cross Band:

Chain 0:802.11ac20 5720MHz

Date:　　　10.JUL.2016　15:17:32

Fundamental

Date:　　　10.JUL.2016　15:36:38

*RBW 1 MHz   Marker 1 [T1]
*VBW 3 MHz   -50.12 dBm
Ref -10 dBm   *Att   0 dB   SWT 270 ms   39.379000000 GHz

-10 Offset 1 dB

Start 26.5 GHz   1.35 GHz/   Stop 40 GHz
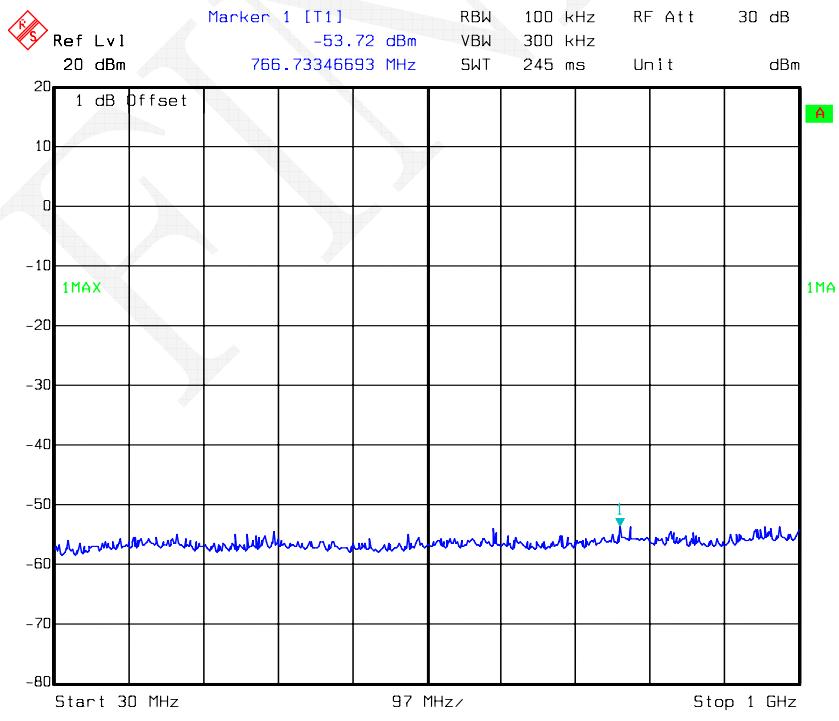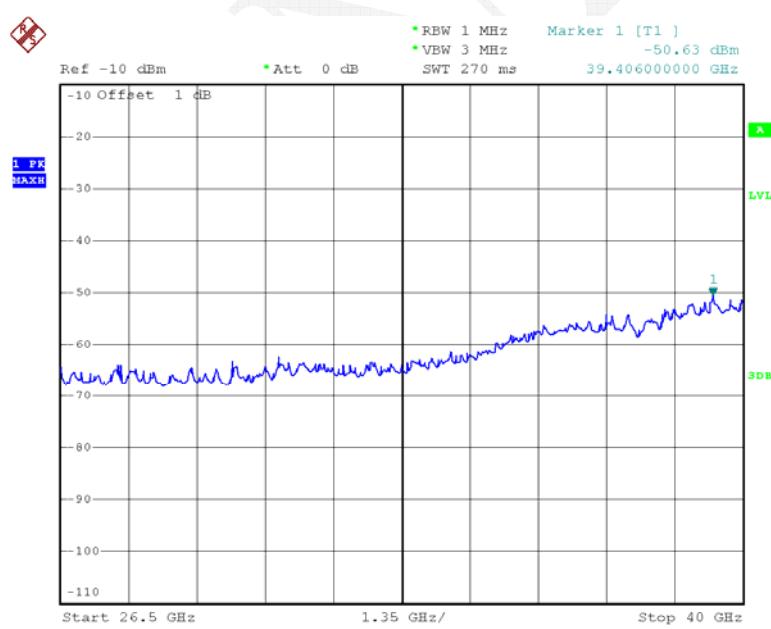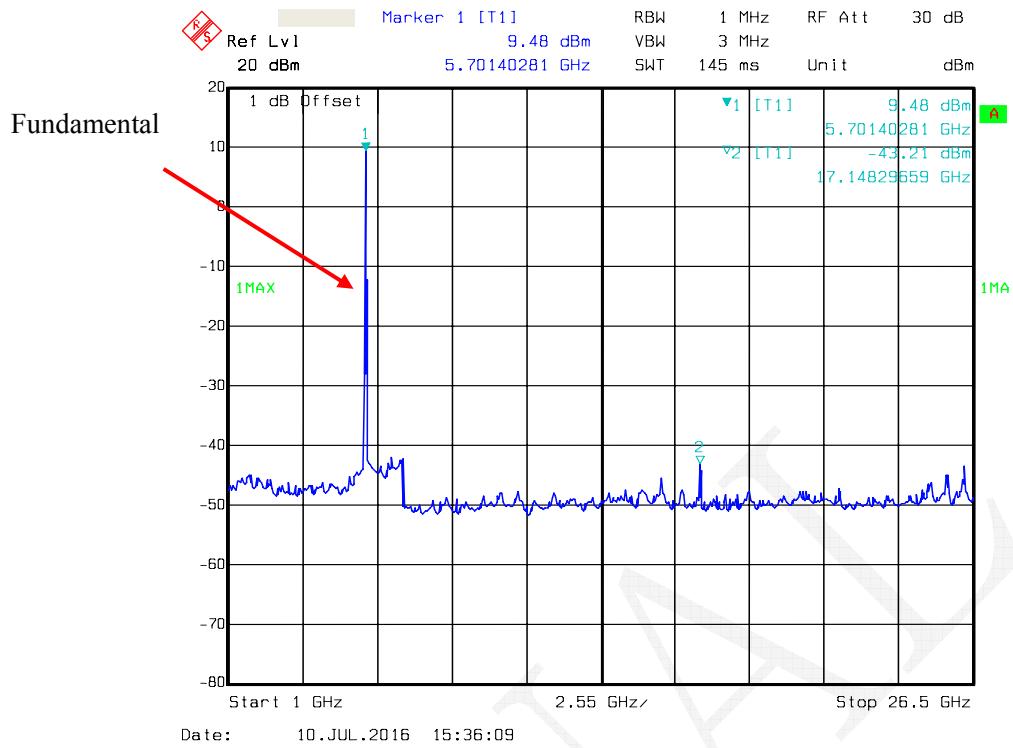
Date: 8.JUL.2016   23:24:09
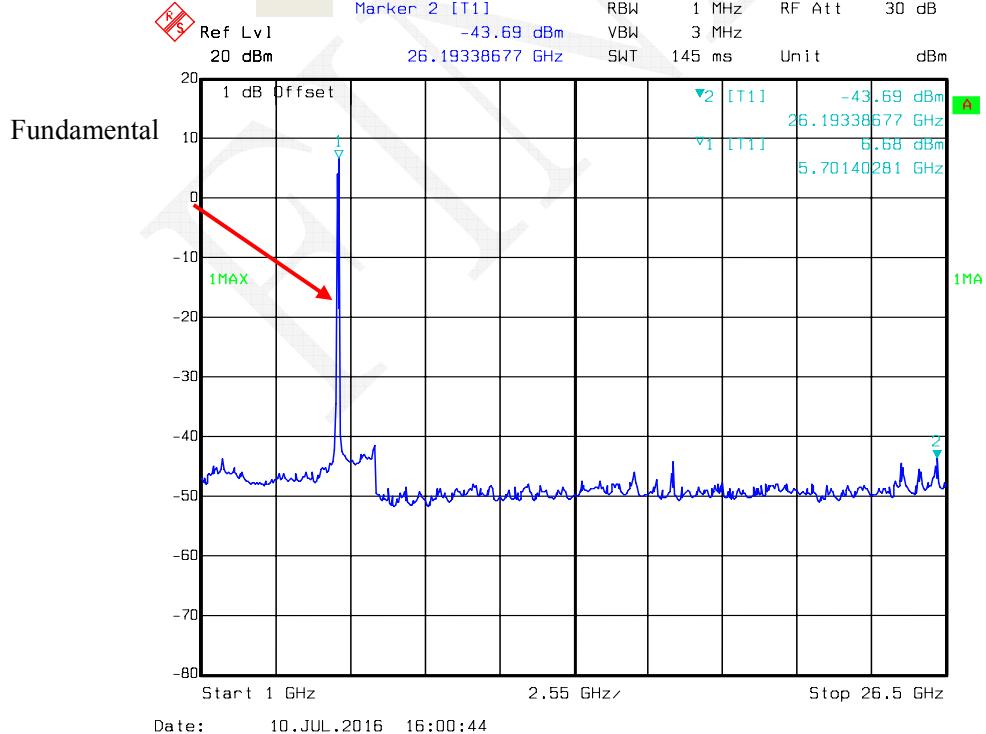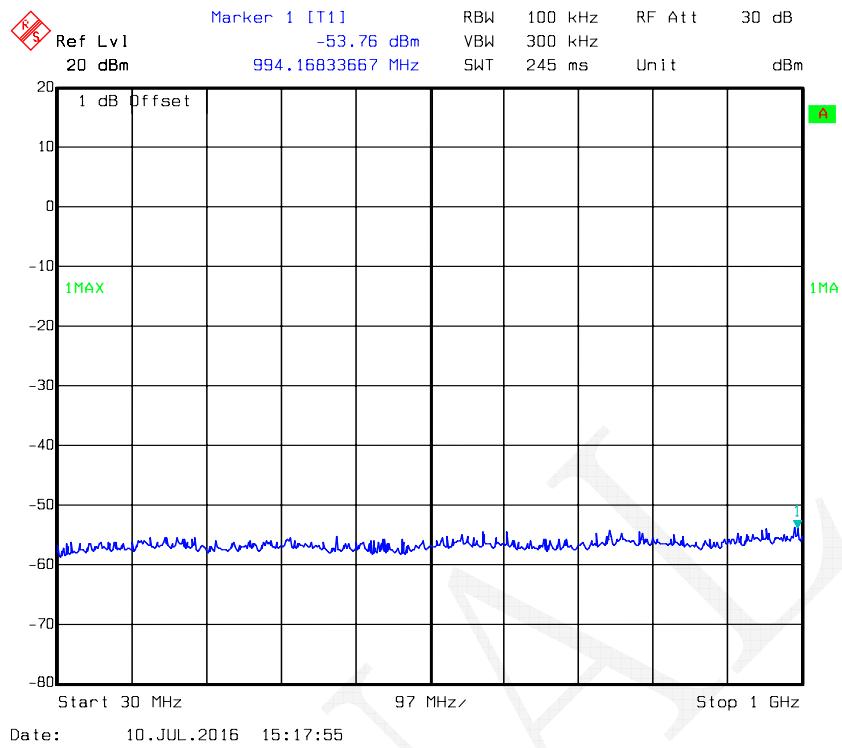
Chain 1:802.11ac20 5720MHz

Marker 1 [T1]   RBW   100 kHz   RF Att   30 dB
Ref Lvl   -53.72 dBm   VBW   300 kHz
20 dBm   766.73346693 MHz   SWT   245 ms   Unit   dBm

1 dB Offset

1MAX   1MA
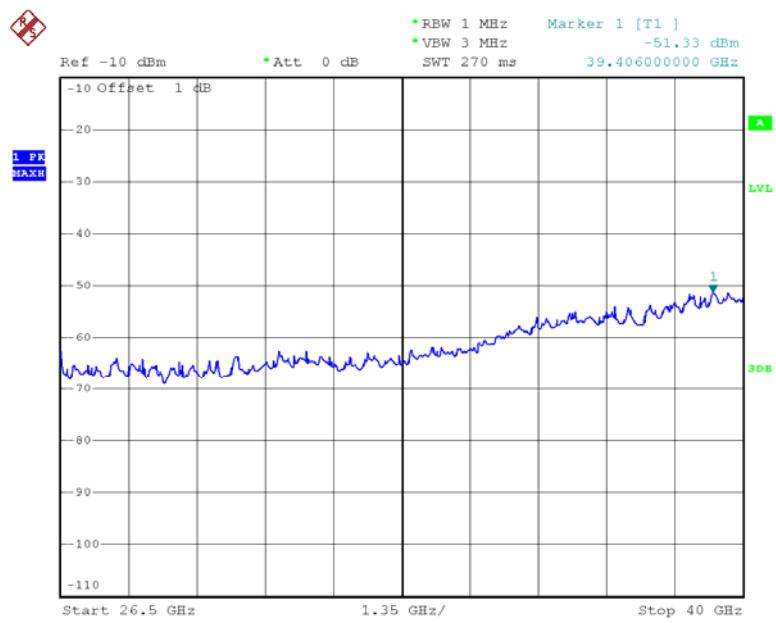
Start 30 MHz   97 MHz/   Stop 1 GHz
Date: 10.JUL.2016   15:17:43
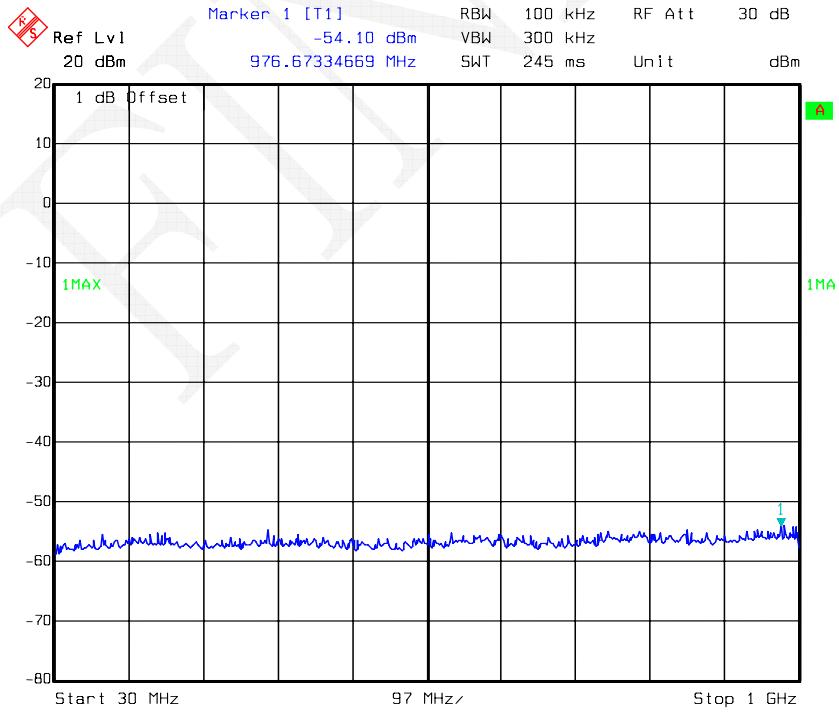
Chain 0:802.11ac40 5710MHz

```
                                         *RBW 1 MHz    Marker 1 [T1 ]
                                         *VBW 3 MHz           -51.33 dBm
            Ref -10 dBm        *Att  0 dB    SWT 270 ms      39.406000000 GHz
           -10 Offset  1 dB
                                                                        A
            -20
  1 PK
  MAXH      -30
                                                                       LVL
            -40

            -50                                                 1
            -60                                                        3DB
            -70

            -80

            -90

           -100

           -110
           Start 26.5 GHz          1.35 GHz/           Stop 40 GHz
```
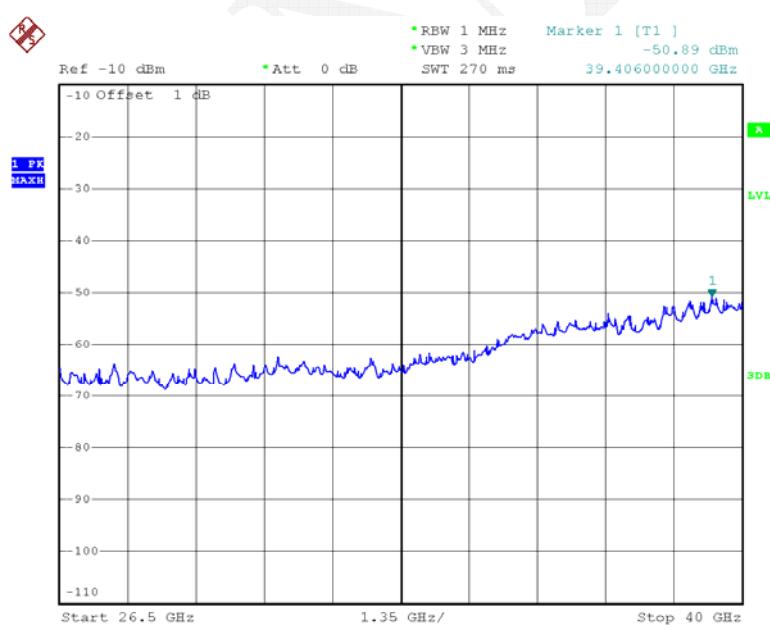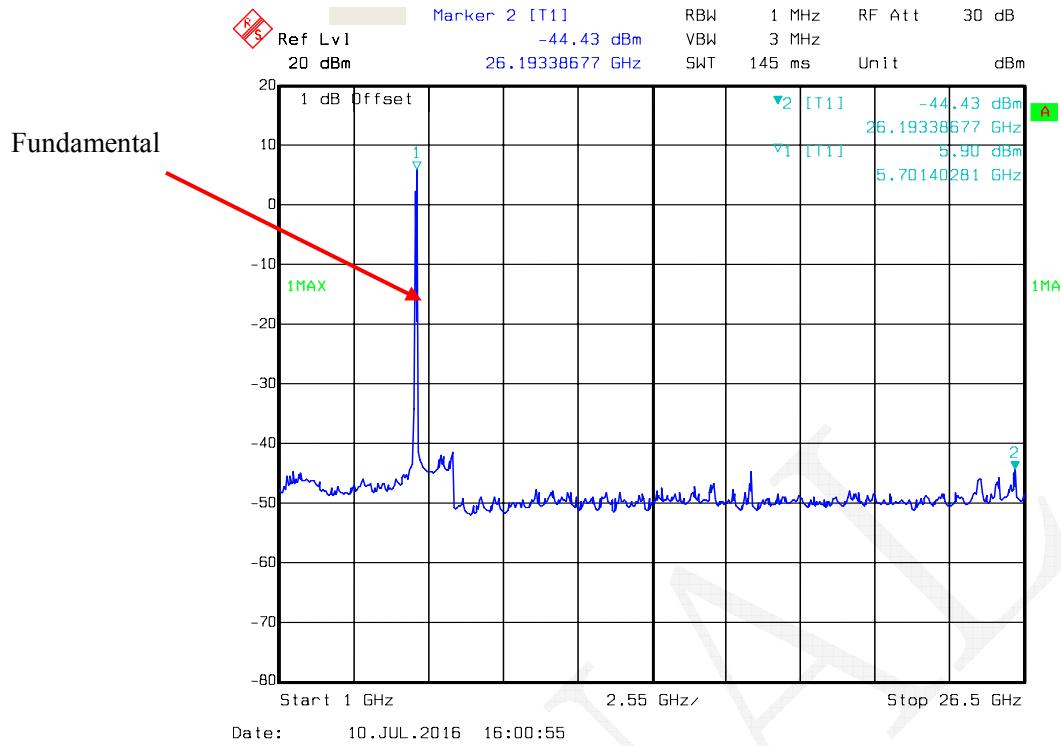
Date: 8.JUL.2016 23:24:23
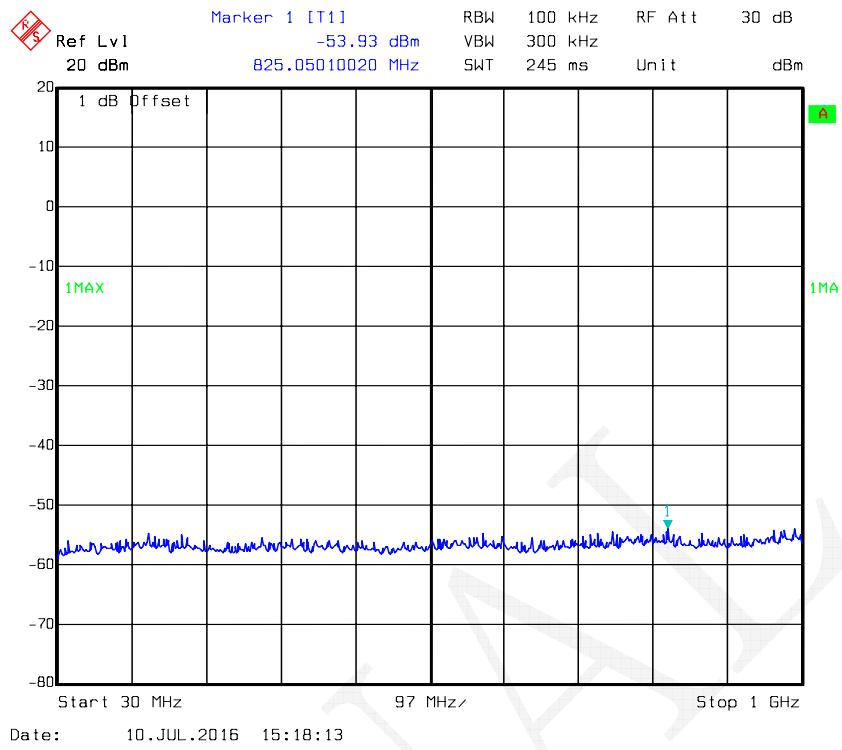
Chain 1:802.11ac40 5710MHz

```
                            Marker 1 [T1]        RBW    100 kHz   RF Att    30 dB
            Ref Lvl             -54.10 dBm       VBW    300 kHz
            20 dBm         976.67334669 MHz      SWT    245 ms    Unit        dBm
            20
             1 dB Offset                                                 A
            10

             0

           -10
            1MAX                                                        1MA
           -20

           -30

           -40

           -50                                                   1
           -60

           -70

           -80
           Start 30 MHz            97 MHz/            Stop 1 GHz
            Date:      10.JUL.2016  15:18:04
```

Fundamental

		Marker 2 [T1]		RBW	1 MHz	RF Att	30 dB
Ref Lvl			-44.43 dBm	VBW	3 MHz		
20 dBm		26.19338677 GHz		SWT	145 ms	Unit	dBm

1 dB Offset

▼2 [T1] -44.43 dBm
26.19338677 GHz
▼1 [T1] 5.90 dBm
5.70140281 GHz

1MAX

1MA

Start 1 GHz　　　　　　2.55 GHz/　　　　　　Stop 26.5 GHz

Date:　　10.JUL.2016　16:00:55

*RBW 1 MHz　Marker 1 [T1]
*VBW 3 MHz　　　　　-50.89 dBm
Ref -10 dBm　　*Att 0 dB　　SWT 270 ms　　39.406000000 GHz

-10 Offset 1 dB

1 PK
MAXH

LVL

3DB

Start 26.5 GHz　　　　　　1.35 GHz/　　　　　　Stop 40 GHz

Date: 8.JUL.2016 23:24:29

Chain 0:802.11ac80 5690MHz

Marker 1 [T1]		RBW	100 kHz	RF Att	30 dB		
Ref Lvl	-53.93 dBm	VBW	300 kHz				
20 dBm	825.05010020 MHz	SWT	245 ms	Unit	dBm		

1 dB Offset

1MAX

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 10.JUL.2016   15:18:13

Marker 2 [T1]		RBW	1 MHz	RF Att	30 dB
Ref Lvl	-43.63 dBm	VBW	3 MHz		
20 dBm	26.19338677 GHz	SWT	145 ms	Unit	dBm

1 dB Offset

2 [T1]   -43.63 dBm
26.19338677 GHz
1 [T1]   4.02 dBm
5.70140281 GHz

Fundamental

1MAX

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 10.JUL.2016   15:42:28

Date: 8.JUL.2016 23:24:35
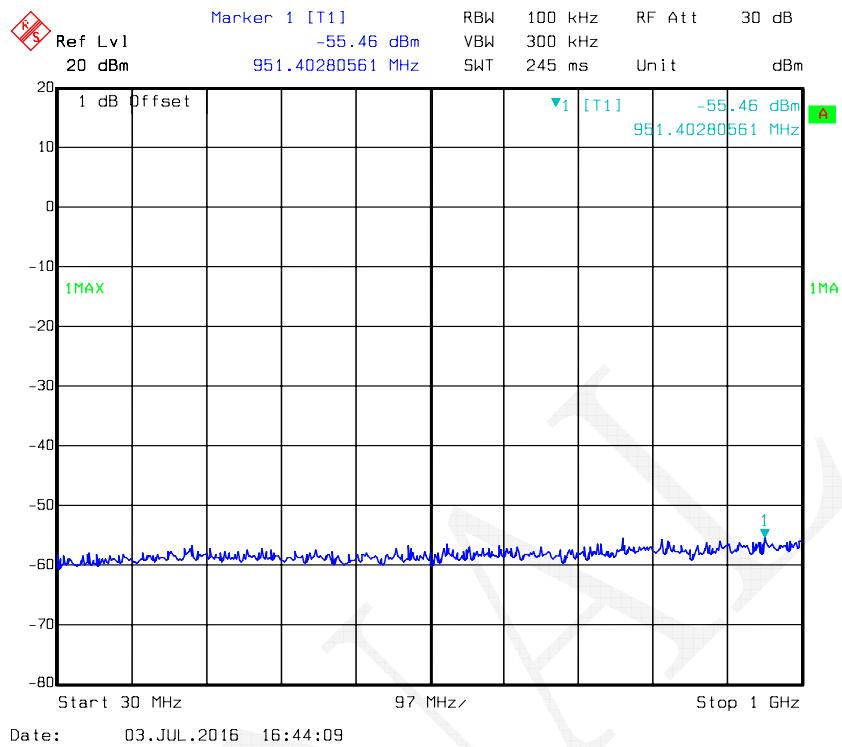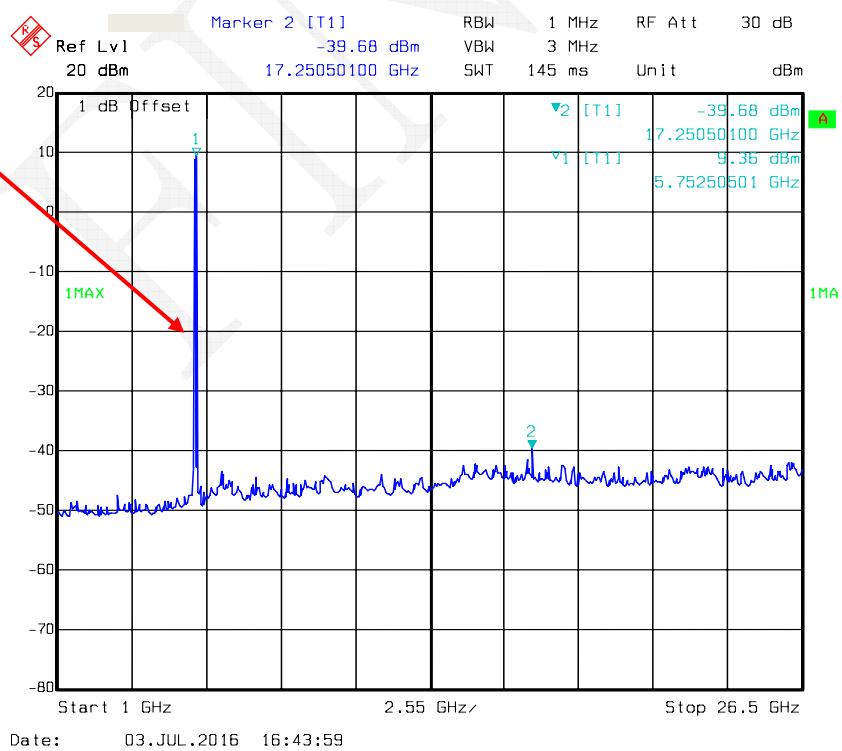
**Chain 1:802.11ac80 5690MHz**

Date:　　10.JUL.2016 15:18:24
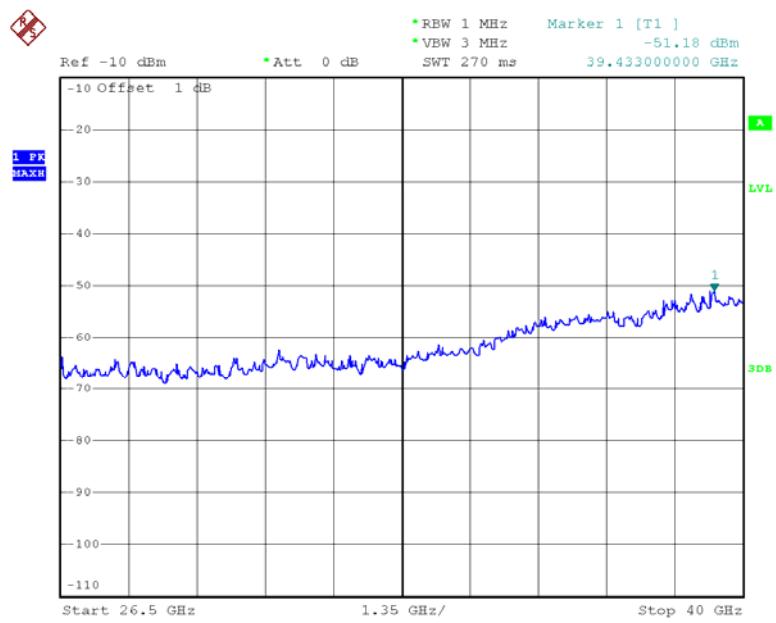
Fundamental

Date: 10.JUL.2016 15:42:39
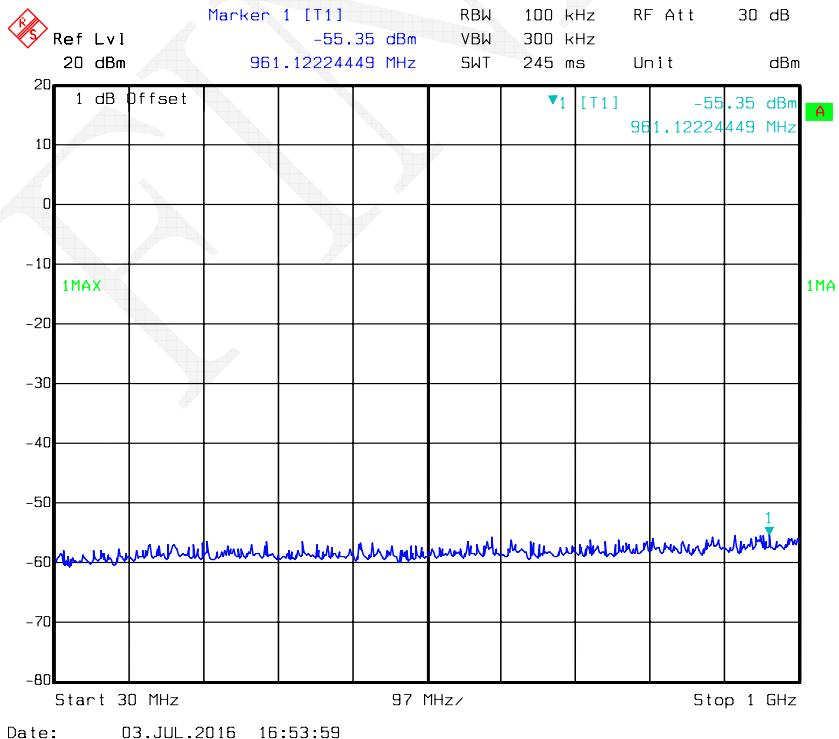
Date: 8.JUL.2016 23:24:41

5725-5850MHz:

Chain 0:802.11a Low Channel
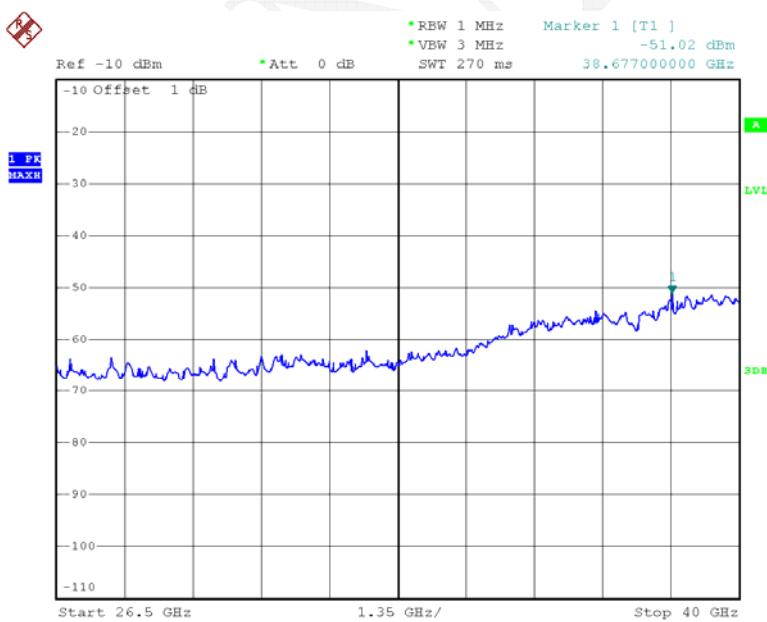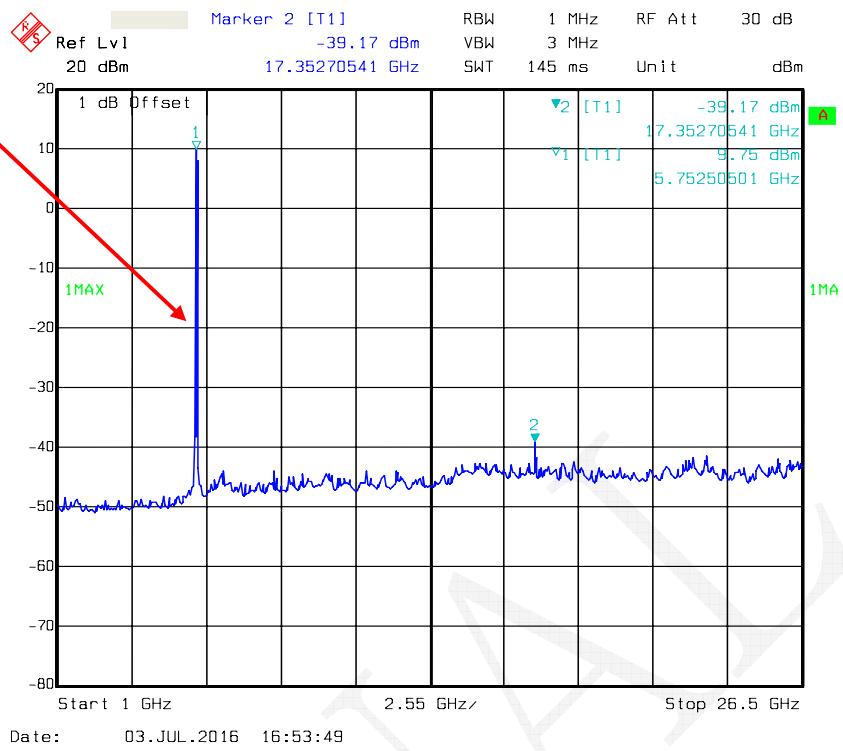
Fundamental

Date: 8.JUL.2016 23:24:47
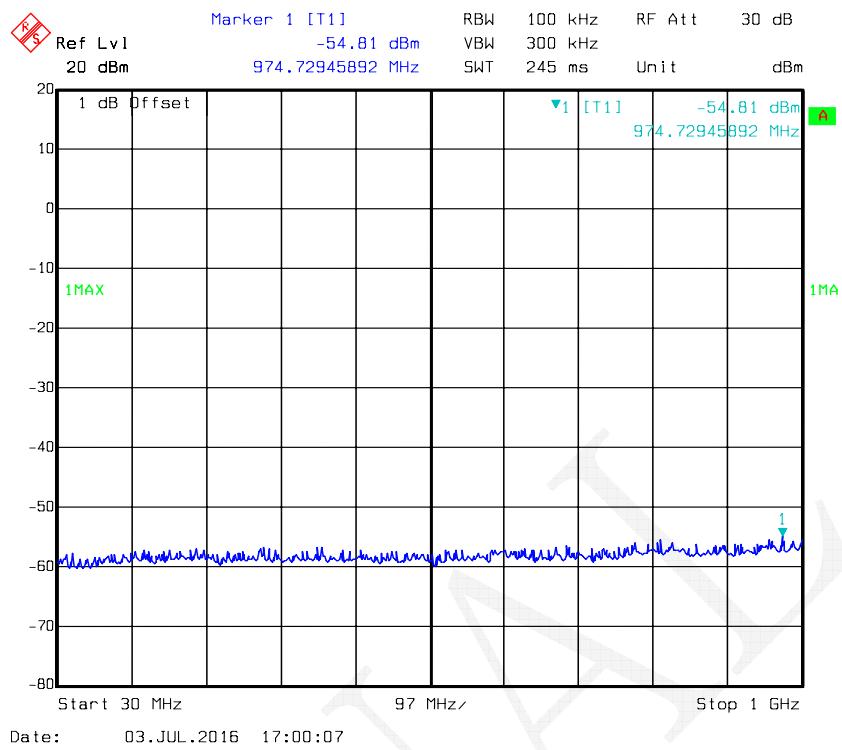
Chain 0:802.11a Middle Channel

Date: 03.JUL.2016 16:53:59

Fundamental
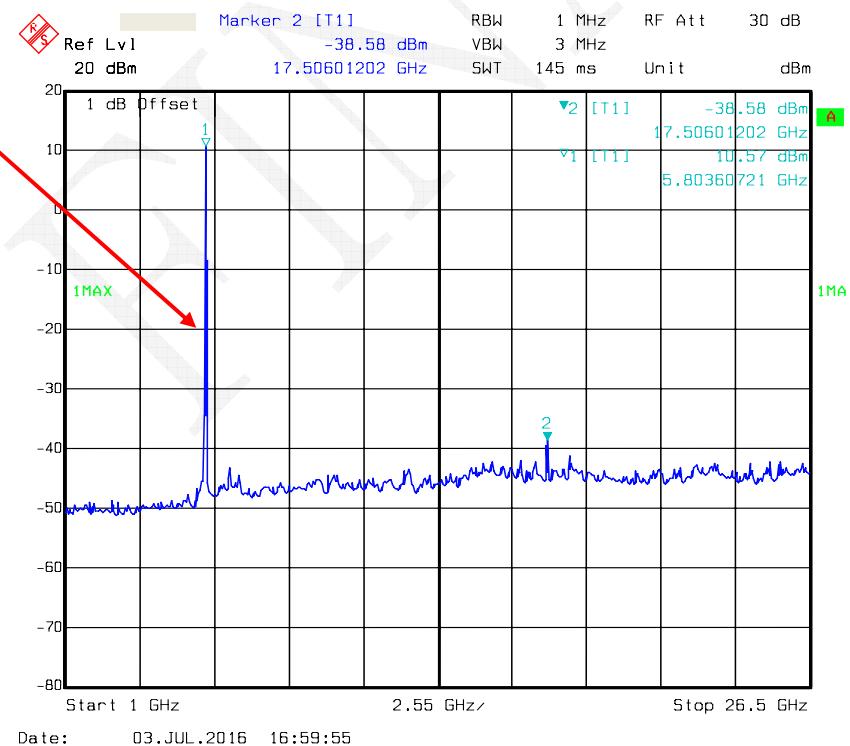
Date: 03.JUL.2016   16:53:49
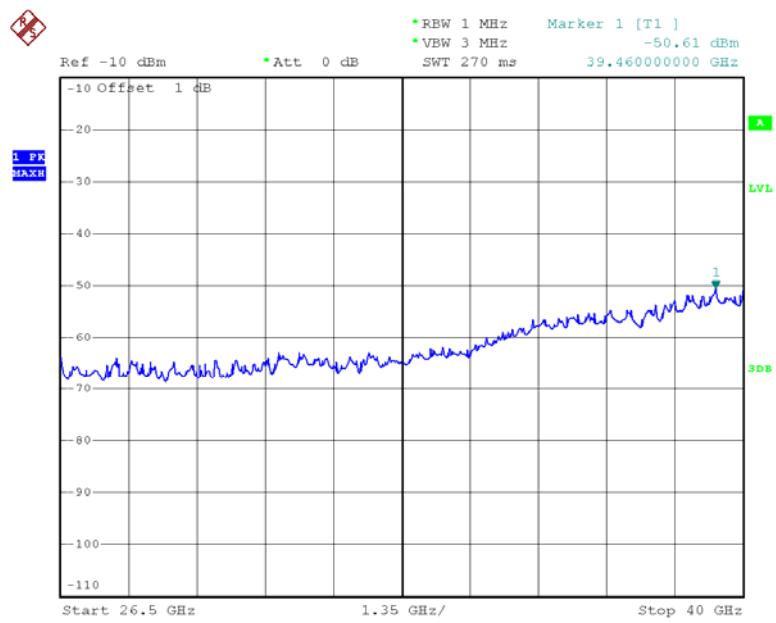
Date: 8.JUL.2016   23:24:55

Chain 0:802.11a High Channel
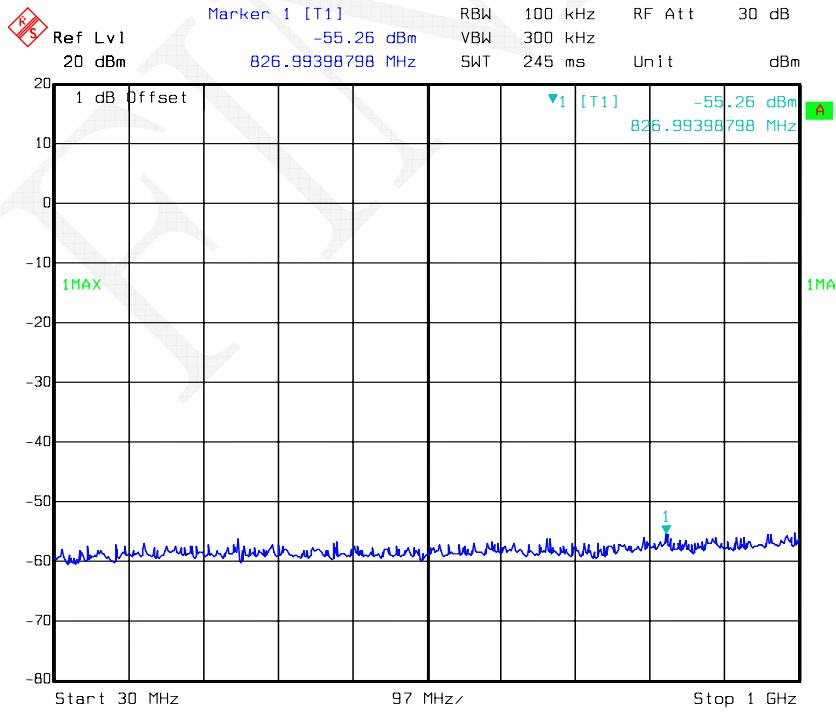
Date: 03.JUL.2016   17:00:07

Fundamental

Date: 03.JUL.2016   16:59:55
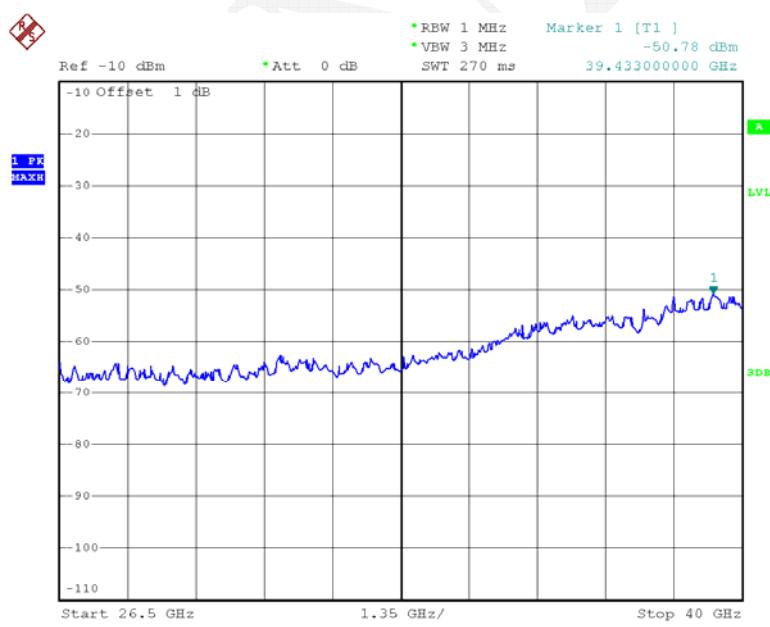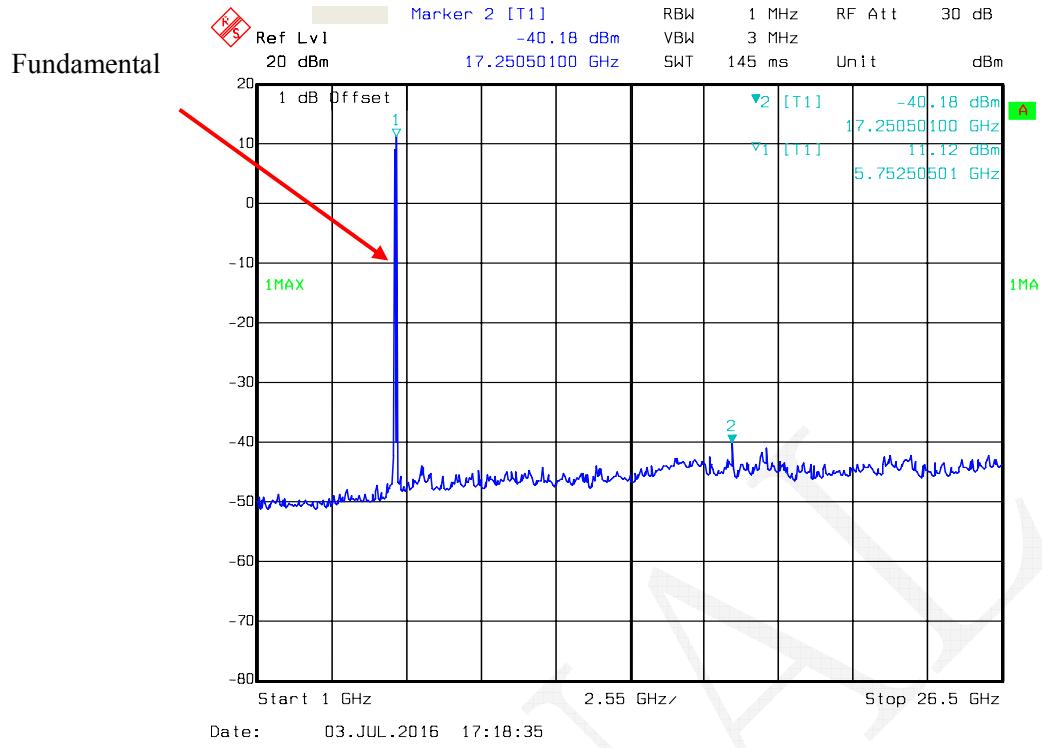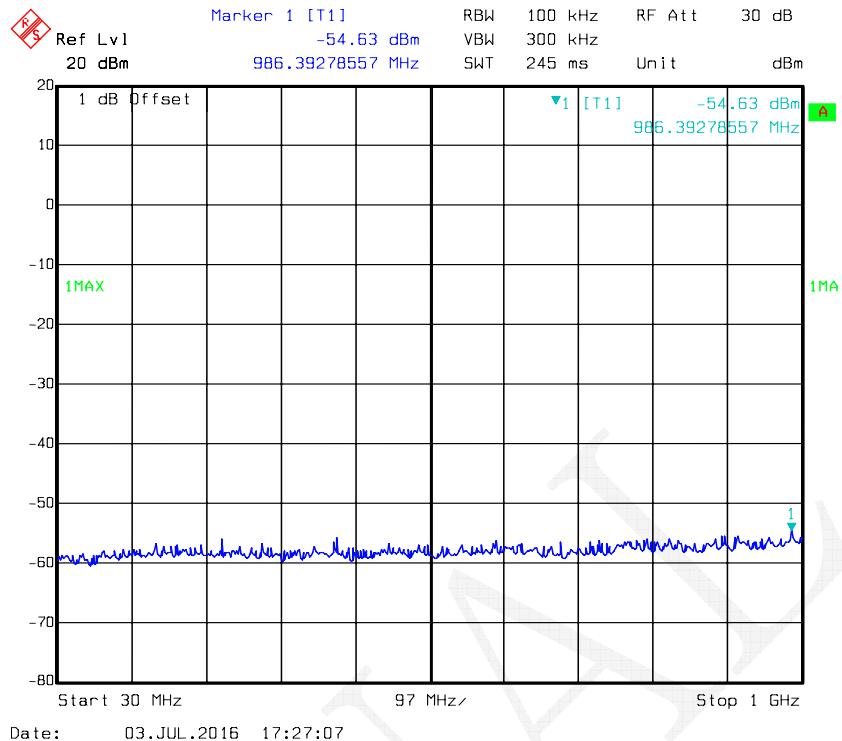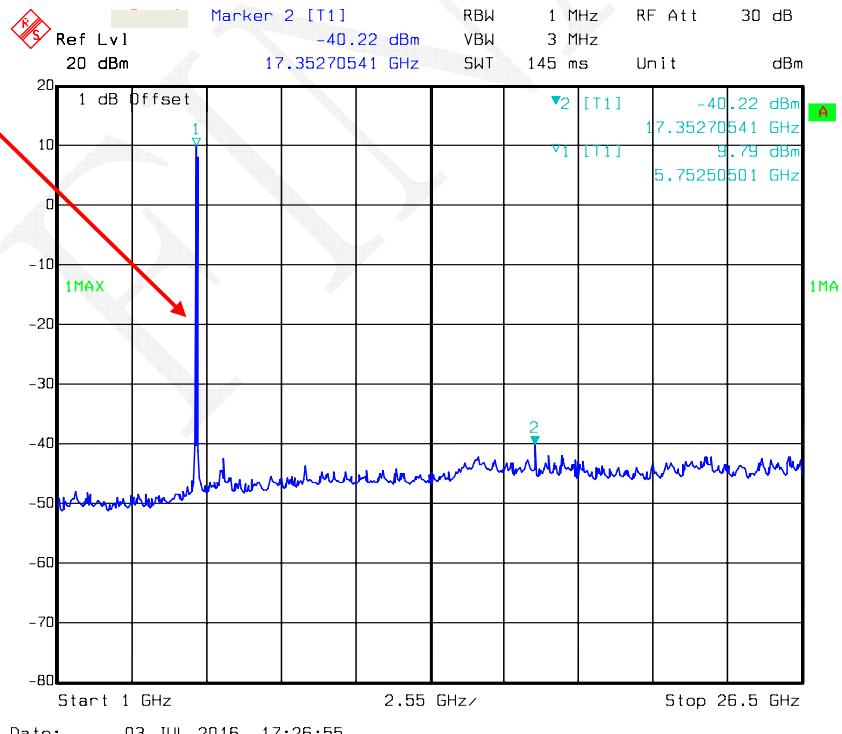
Date: 8.JUL.2016　23:25:01

Chain 0:802.11n ht20 Low Channel

Date:　　03.JUL.2016　17:18:45

Fundamental

```
        R                   Marker 2 [T1]          RBW    1 MHz    RF Att    30 dB
        S   Ref Lvl                 -40.18 dBm     VBW    3 MHz
            20 dBm            17.25050100 GHz       SWT   145 ms    Unit        dBm
```

```
 20 ┌─────────────────────────────────────────────────────────────┐
    │ 1 dB Offset                              ▽2 [T1]      -40.18 dBm │ A
 10 │            1                                      17.25050100 GHz │
    │            ▽                             ▽1 [T1]       11.12 dBm  │
  0 │                                                    5.75250501 GHz │
    │                                                                 │
-10 │                                                                 │
    │1MAX                                                         1MA │
-20 │                                                                 │
    │                                                                 │
-30 │                                                                 │
    │                                        2                        │
-40 │                                        ▽                        │
    │                                                                 │
-50 │                                                                 │
    │                                                                 │
-60 │                                                                 │
    │                                                                 │
-70 │                                                                 │
    │                                                                 │
-80 └─────────────────────────────────────────────────────────────┘
    Start 1 GHz              2.55 GHz/                Stop 26.5 GHz
```

Date: 03.JUL.2016 17:18:35

```
        R                        *RBW 1 MHz    Marker 1 [T1 ]
        S                        *VBW 3 MHz                -50.78 dBm
            Ref -10 dBm  *Att  0 dB   SWT 270 ms        39.433000000 GHz
```

```
-10 Offset  1 dB ┌──────────────────────────────────┐
                 │                                  │ A
  -20            │                                  │
                 │                                  │
  -30 │1 PK│     │                                  │ LVL
      │MAXH│     │                                  │
  -40            │                                  │
                 │                                  │
  -50            │                               1  │
                 │                              ▽   │
  -60            │                 ┌───────────────│ 3DB
                 │       ┌─────────┘               │
  -70            │───────┘                         │
                 │                                  │
  -80            │                                  │
                 │                                  │
  -90            │                                  │
                 │                                  │
 -100            │                                  │
                 │                                  │
 -110            └──────────────────────────────────┘
     Start 26.5 GHz          1.35 GHz/           Stop 40 GHz
```

Date: 8.JUL.2016 23:25:08

Chain 0:802.11n ht20 Middle Channel

Fundamental

```
                                      *RBW 1 MHz    Marker 1 [T1 ]
                                      *VBW 3 MHz            -50.59 dBm
        Ref -10 dBm        *Att  0 dB  SWT 270 ms     39.784000000 GHz
     -10 Offset  1 dB
     -20
  1 PK
  MAXH -30                                                          LVL

     -40

     -50                                                        1
                                                                  3DB
     -60
     -70

     -80

     -90

     -100

     -110
        Start 26.5 GHz           1.35 GHz/          Stop 40 GHz
```
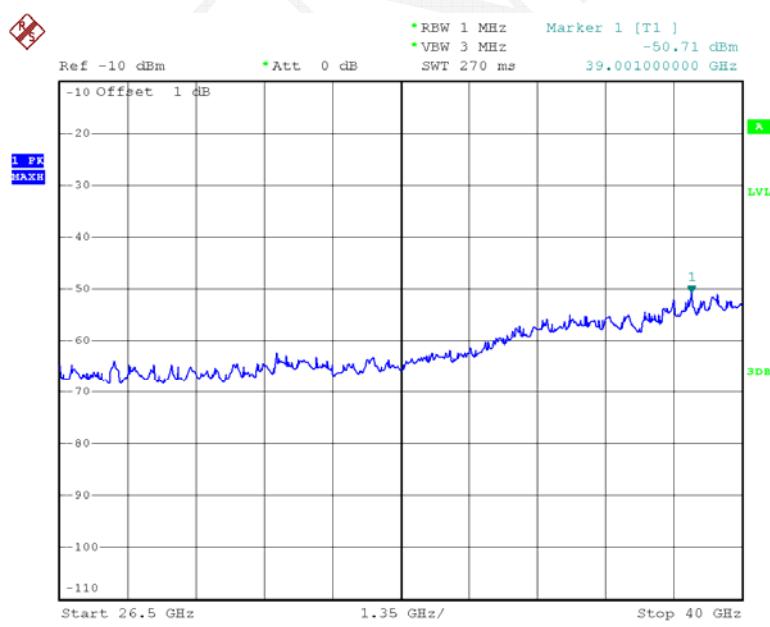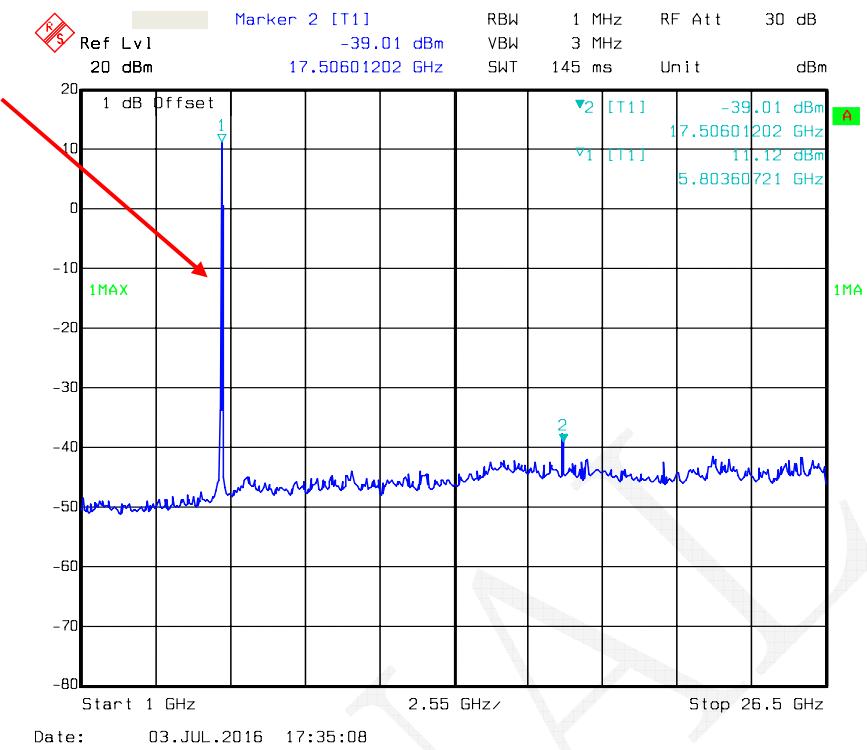
Date: 8.JUL.2016 23:25:14

Chain 0:802.11n ht20 High Channel
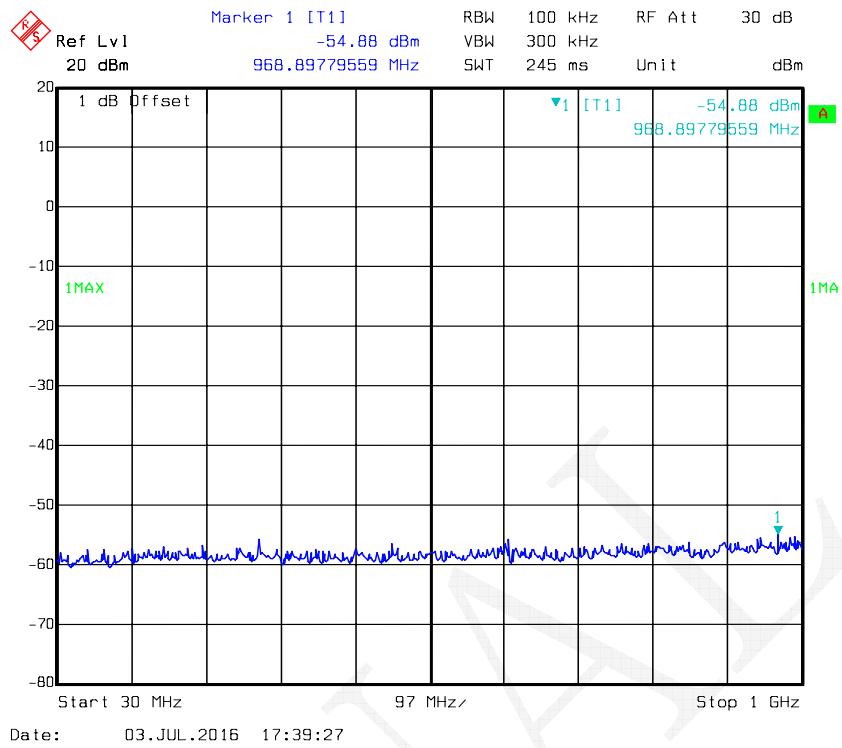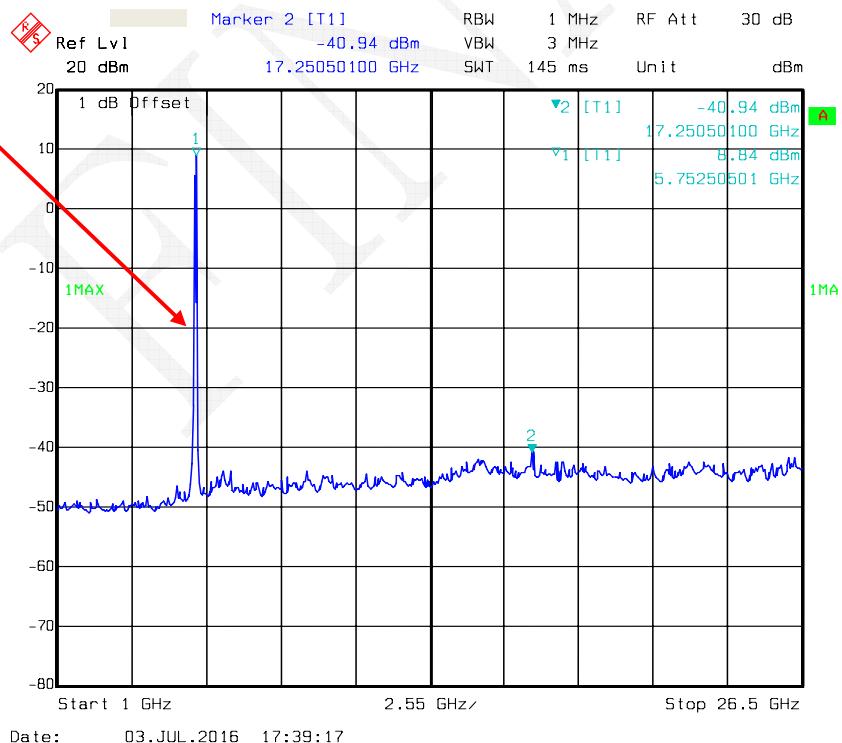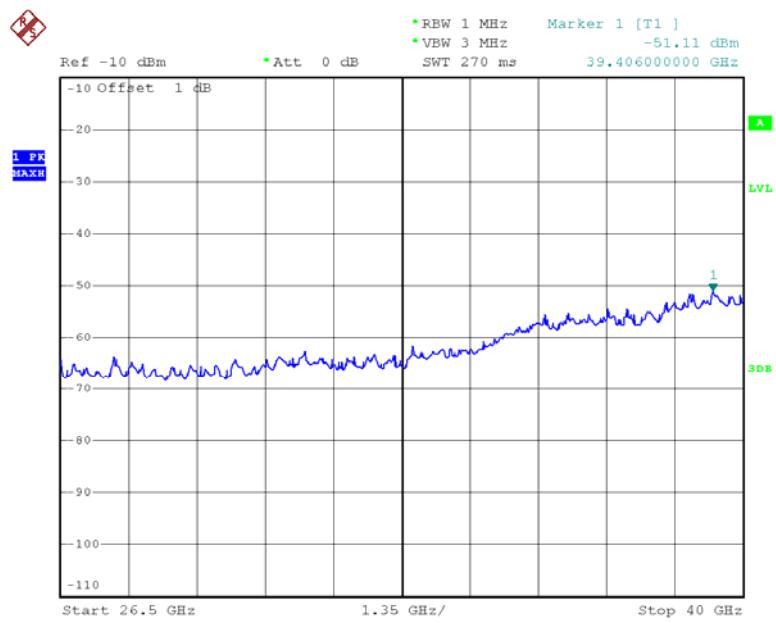
```
                       Marker 1 [T1]          RBW   100 kHz   RF Att   30 dB
         Ref Lvl           -54.99 dBm         VBW   300 kHz
         20 dBm      838.65731463 MHz         SWT   245 ms    Unit       dBm
     20
         1 dB Offset                          ▼1 [T1]        -54.99 dBm
     10                                               838.65731463 MHz

      0

     -10
     1MAX                                                            1MA
     -20

     -30

     -40

     -50                                              1
     -60

     -70

     -80
         Start 30 MHz            97 MHz/            Stop 1 GHz
         Date:      03.JUL.2016  17:35:19
```

Fundamental


```
         R&S              Marker 2 [T1]          RBW    1 MHz    RF Att   30 dB
                     Ref Lvl            -39.01 dBm   VBW    3 MHz
                     20 dBm          17.50601202 GHz   SWT   145 ms    Unit        dBm
      20  1 dB Offset                              ▼2 [T1]        -39.01 dBm    A
                                                            17.50601202 GHz
      10                    1                      ▼1 [T1]         11.12 dBm
                            ▽                              5.80360721 GHz
       0
     -10
      1MAX                                                                    1MA
     -20
     -30
     -40                                          2
     -50
     -60
     -70
     -80
       Start 1 GHz                    2.55 GHz/              Stop 26.5 GHz
     Date:     03.JUL.2016  17:35:08
```



```
         R&S                    *RBW 1 MHz    Marker 1 [T1 ]
                                *VBW 3 MHz            -50.71 dBm
                     Ref -10 dBm    *Att  0 dB    SWT 270 ms    39.001000000 GHz
      -10 Offset   1 dB                                          A
      -20
      -30                                                        LVL
   1 PK
   MAXH -40
      -50                                               1
      -60
      -70                                                        3DB
      -80
      -90
     -100
     -110
       Start 26.5 GHz                1.35 GHz/              Stop 40 GHz
```

Date: 8.JUL.2016 23:25:20

Chain 0:802.11n ht40 Low Channel

Fundamental

Date: 8.JUL.2016 23:25:26

Chain 0:802.11n ht40 High Channel

Date: 03.JUL.2016 17:48:54
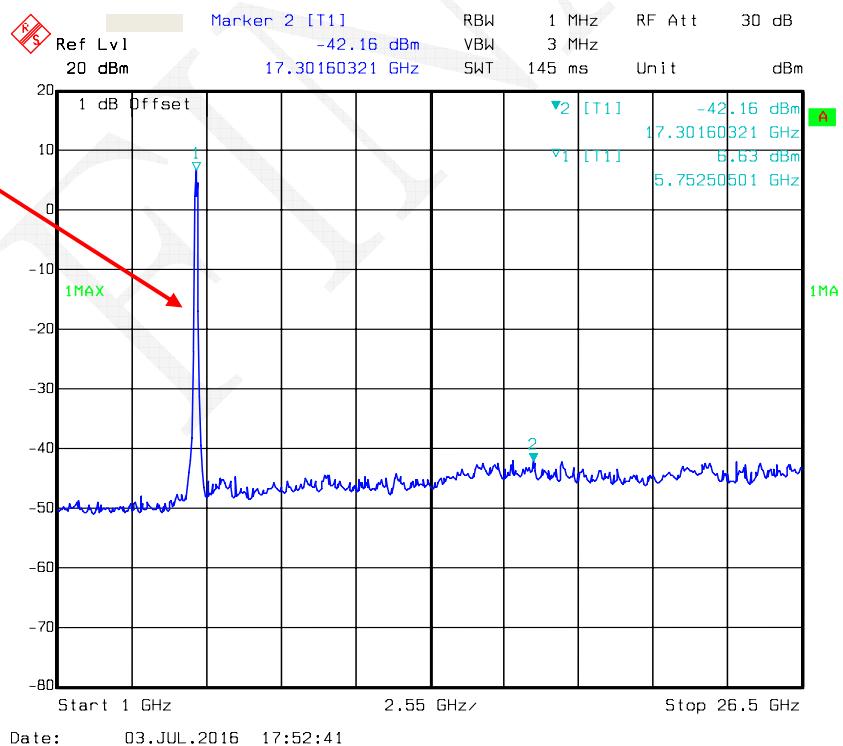
Fundamental

Date: 03.JUL.2016   17:48:43
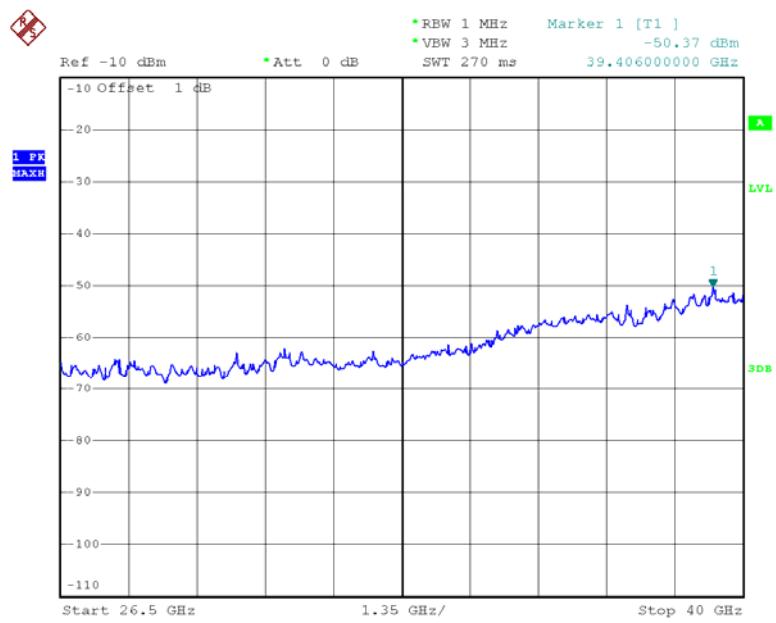
Date: 8.JUL.2016   23:25:31

Chain 0:802.11n ac80 Middle Channel

		Marker 1 [T1]		RBW	100 kHz	RF Att	30 dB
	Ref Lvl		-55.50 dBm	VBW	300 kHz		
	20 dBm		974.72945892 MHz	SWT	245 ms	Unit	dBm

20

1 dB Offset ▼1 [T1]   -55.50 dBm
                      974.72945892 MHz A

10

0

-10

1MAX   1MA

-20

-30

-40

-50   1
                                                          ▼
-60

-70

-80
Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 03.JUL.2016 17:52:52

		Marker 2 [T1]		RBW	1 MHz	RF Att	30 dB
	Ref Lvl		-42.16 dBm	VBW	3 MHz		
	20 dBm		17.30160321 GHz	SWT	145 ms	Unit	dBm

Fundamental

20

1 dB Offset ▼2 [T1]   -42.16 dBm
                      17.30160321 GHz A
10   ▼1 [T1]   6.63 dBm
                      5.75250501 GHz
0

-10

1MAX   1MA

-20

-30

-40   2
                                 ▼
-50

-60

-70

-80
Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 03.JUL.2016 17:52:41

```
                                    *RBW 1 MHz    Marker 1 [T1 ]
                                    *VBW 3 MHz            -50.37 dBm
Ref -10 dBm          *Att  0 dB    SWT 270 ms      39.406000000 GHz
```

Date: 8.JUL.2016   23:25:39

Chain 1:802.11a Low Channel

```
                     Marker 1 [T1]        RBW   100 kHz    RF Att   30 dB
         Ref Lvl              -54.86 dBm   VBW   300 kHz
         20 dBm        922.24448898 MHz   SWT   245 ms    Unit       dBm
```
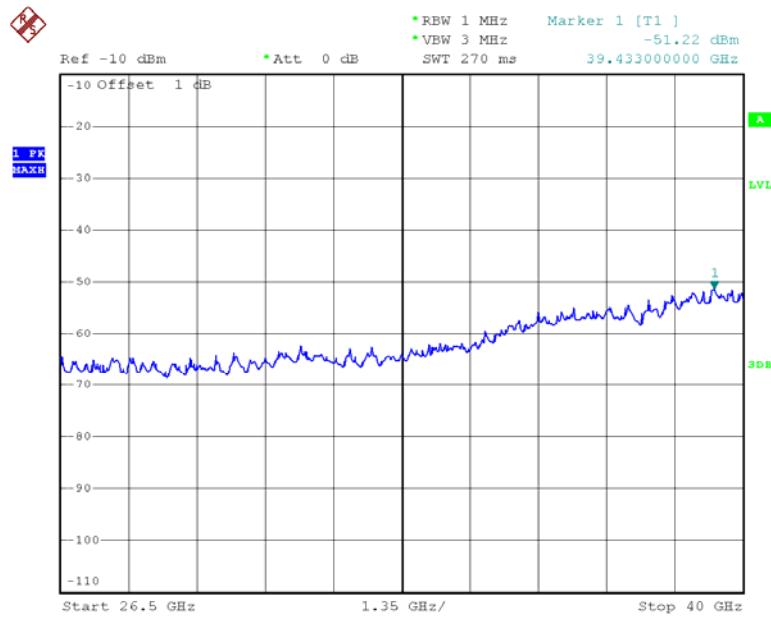
Date: 03.JUL.2016 16:47:04

Fundamental

Chain 1:802.11a Middle Channel
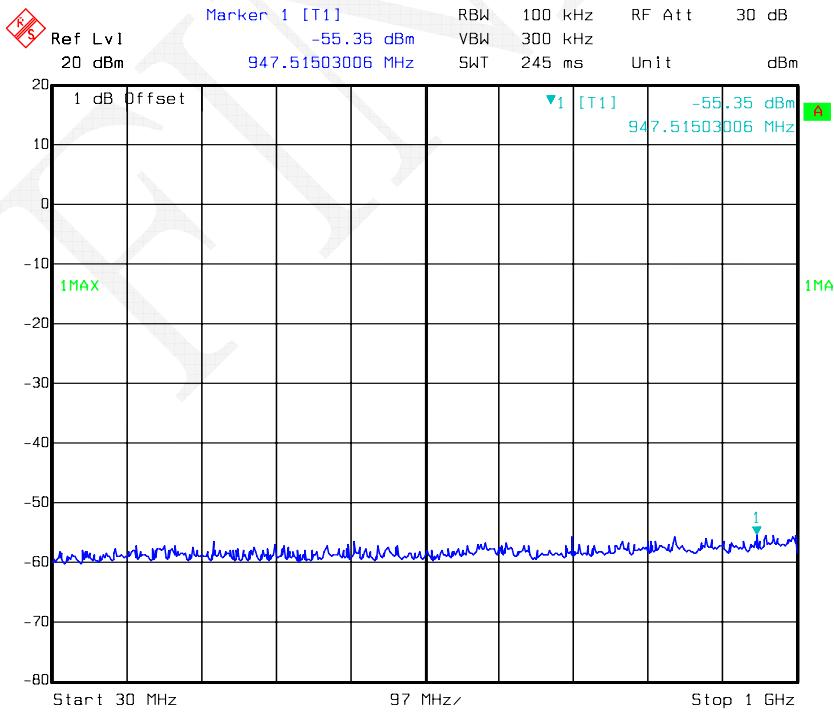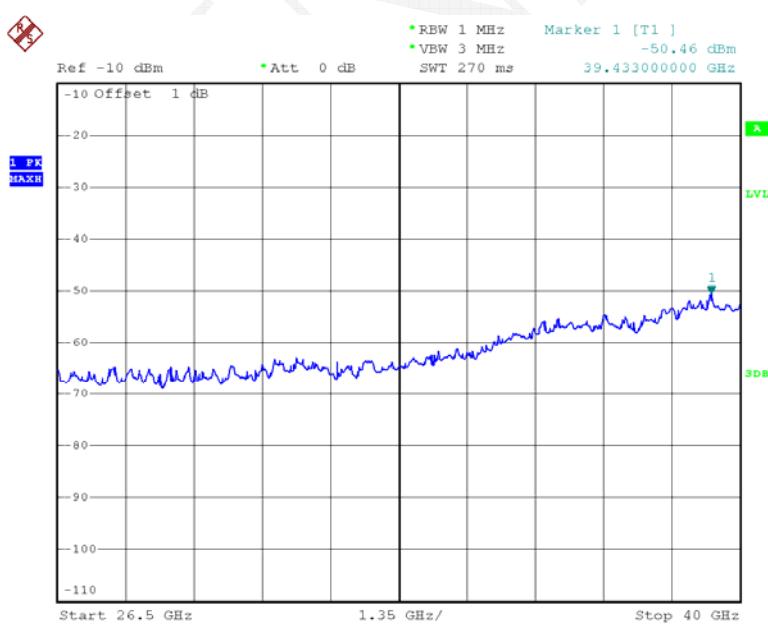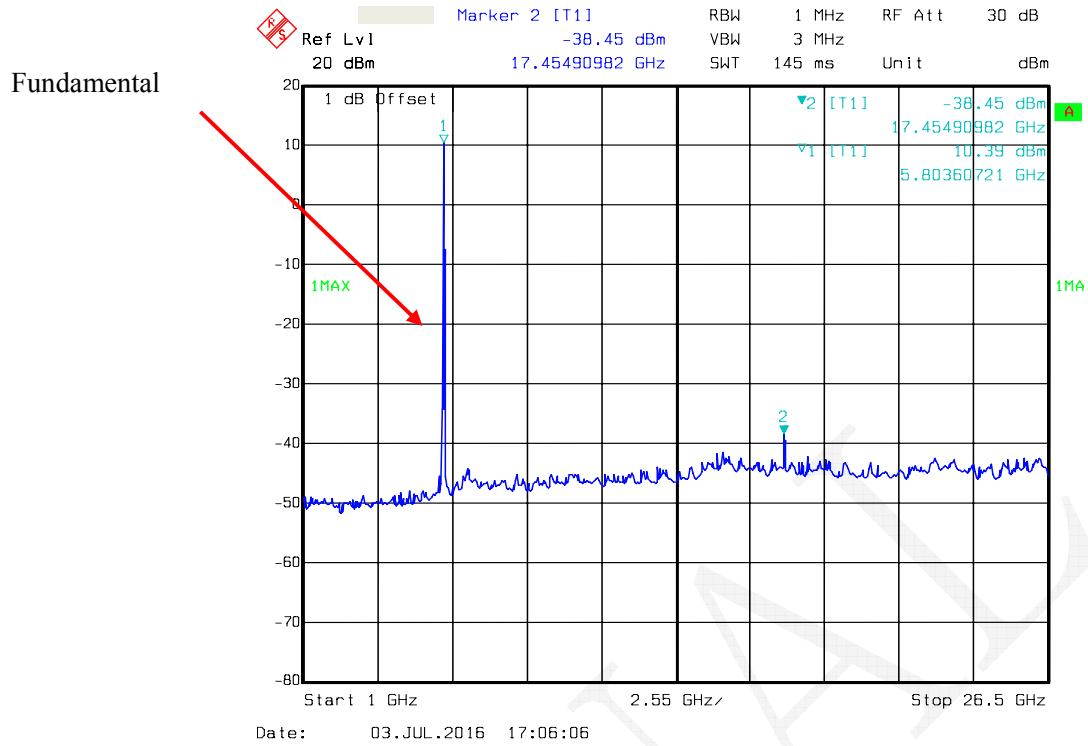

Fundamental

Date: 8.JUL.2016 23:25:50

Chain 1:802.11a High Channel
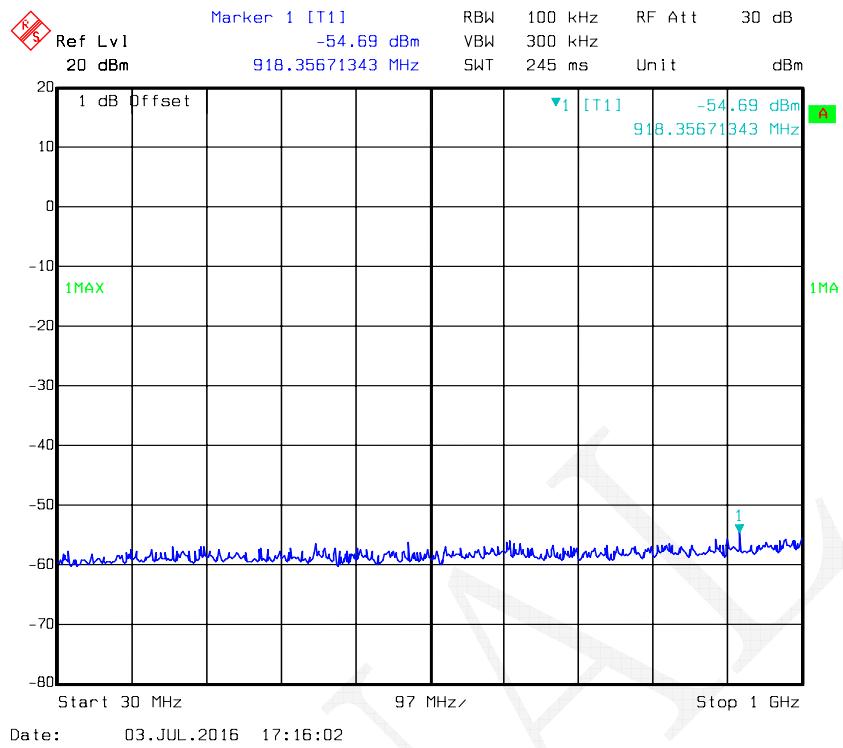

Date: 03.JUL.2016 17:06:16
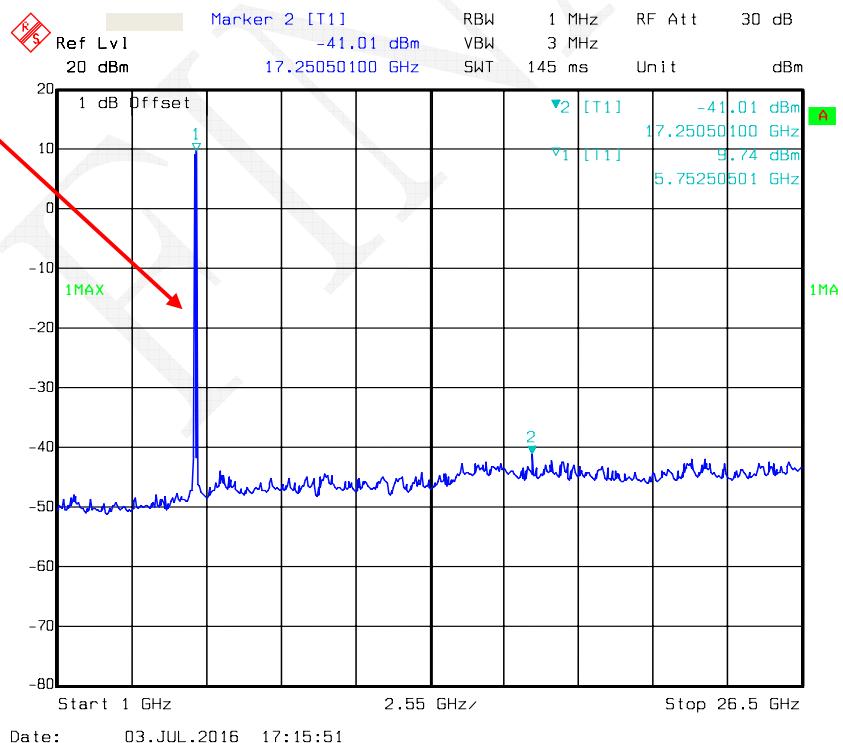
Fundamental

Date: 03.JUL.2016 17:06:06
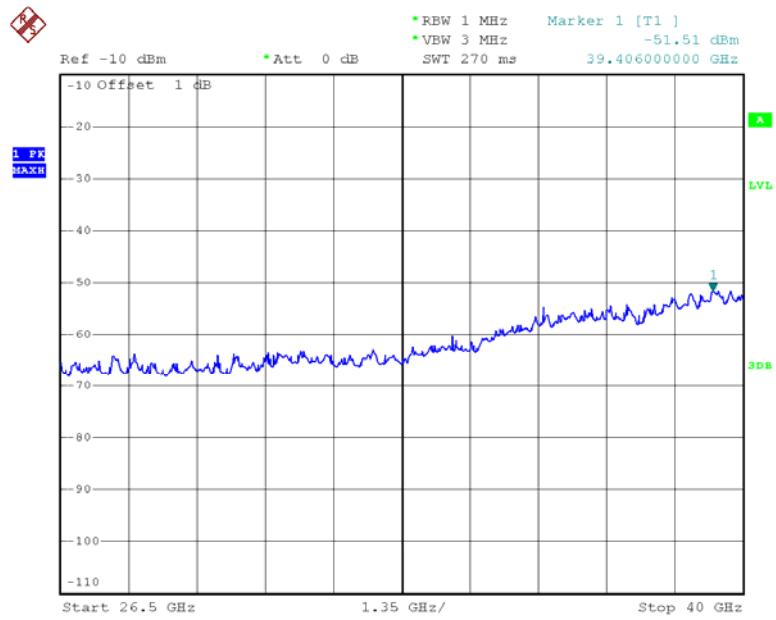
Date: 8.JUL.2016 23:25:57

Chain 1:802.11n ht20 Low Channel

Fundamental

```
                                          *RBW 1 MHz    Marker 1 [T1 ]
                                          *VBW 3 MHz              -51.51 dBm
        Ref -10 dBm          *Att  0 dB    SWT 270 ms       39.406000000 GHz
        -10 Offset  1 dB                                                    A
         -20
  1 PK
  MAXH   -30                                                               LVL
         -40
         -50                                                         1
                                                                          3DB
         -60
         -70
         -80
         -90
        -100
        -110
        Start 26.5 GHz          1.35 GHz/           Stop 40 GHz
```
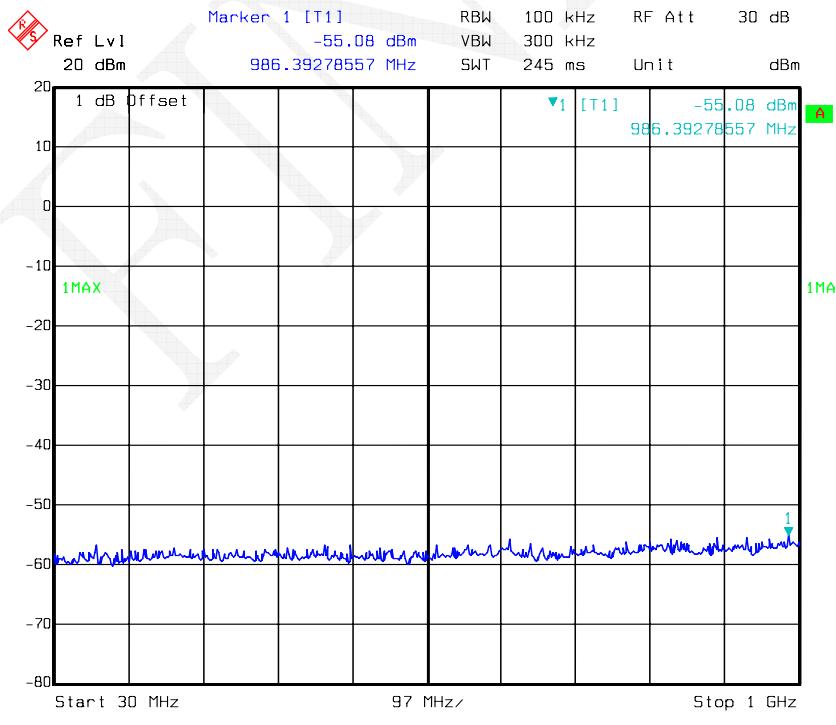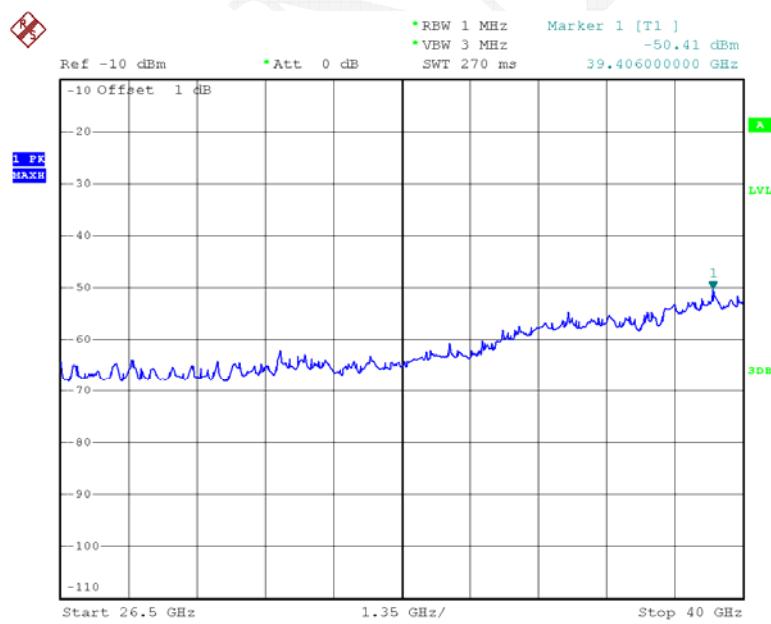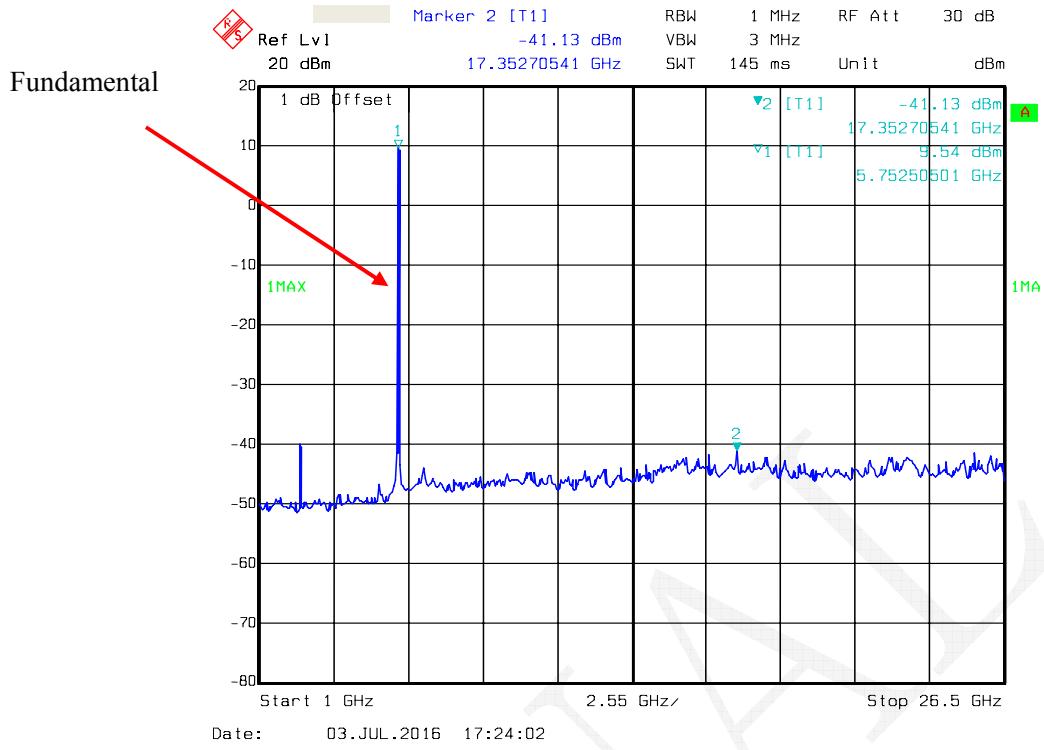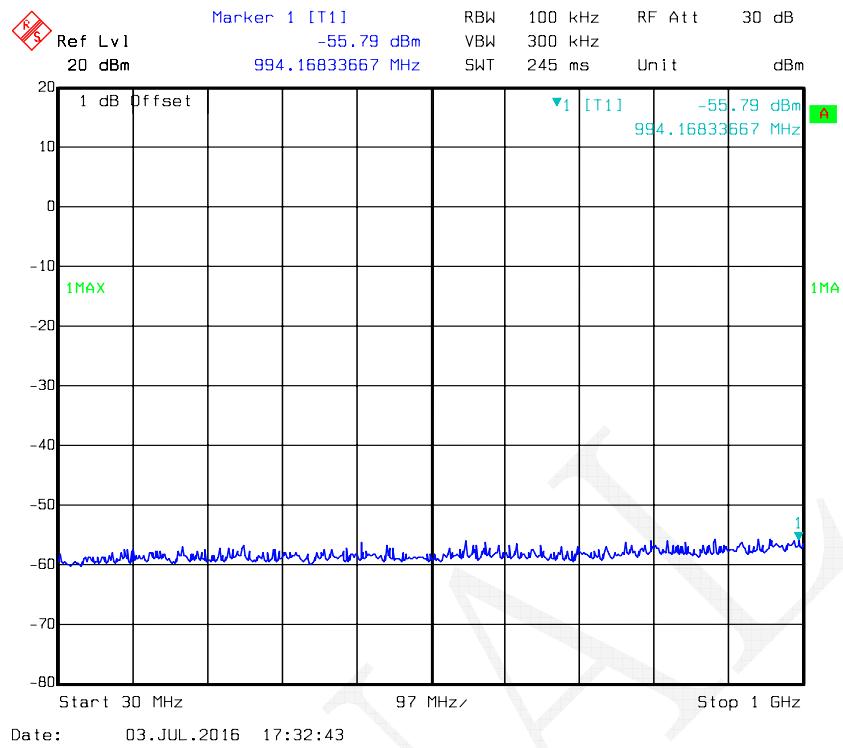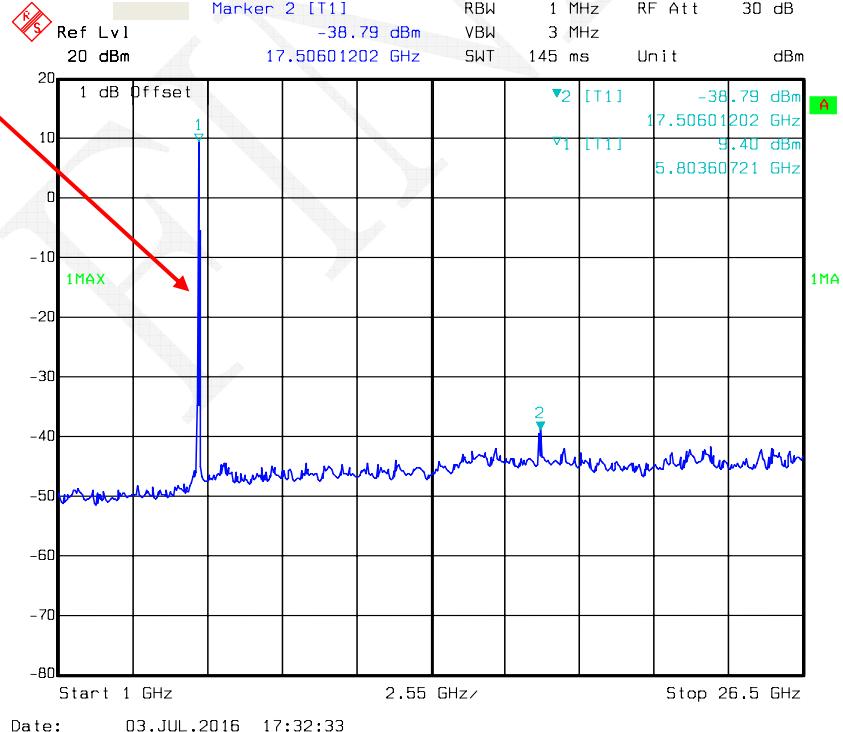
Date: 8.JUL.2016 23:26:03

Chain 1:802.11n ht20 Middle Channel


```
                          Marker 1 [T1 ]        RBW    100 kHz    RF Att    30 dB
            Ref Lvl                -55.08 dBm   VBW    300 kHz
            20 dBm         986.39278557 MHz     SWT    245 ms     Unit         dBm
         20
            1 dB Offset                           1 [T1]         -55.08 dBm    A
         10                                              986.39278557 MHz
          0
        -10
            1MAX                                                          1MA
        -20
        -30
        -40
        -50                                                              1
        -60
        -70
        -80
            Start 30 MHz               97 MHz/            Stop 1 GHz
        Date:      03.JUL.2016  17:24:13
```
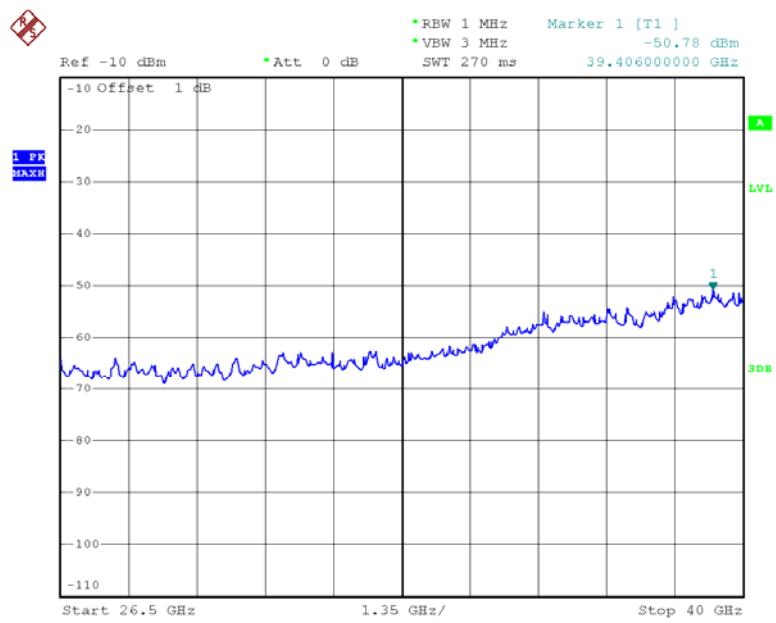
Fundamental


Date: 03.JUL.2016   17:24:02
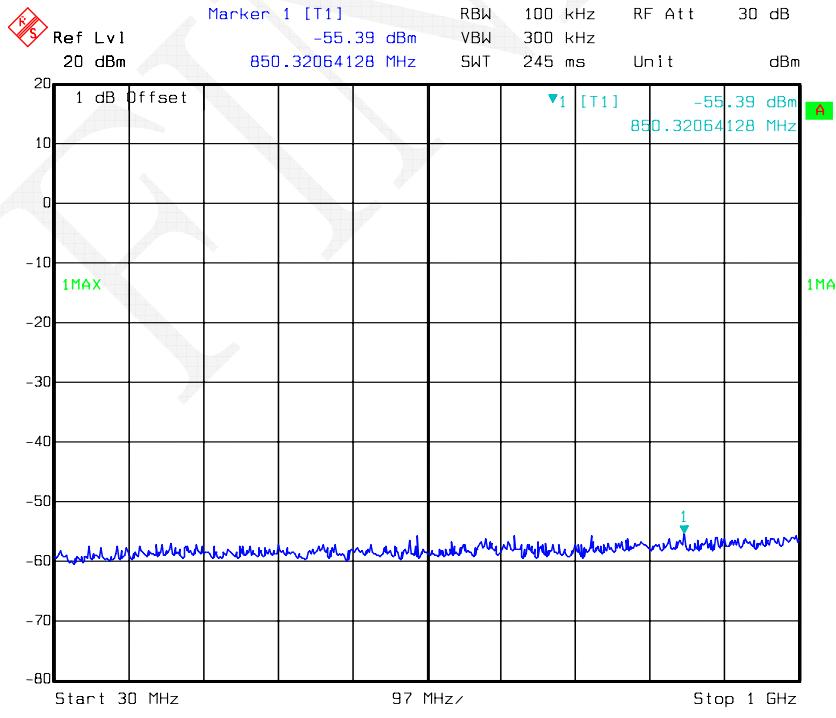
Date: 8.JUL.2016   23:26:08

**Chain 1:802.11n ht20 High Channel**

Date: 03.JUL.2016   17:32:43

Fundamental

Date: 03.JUL.2016   17:32:33
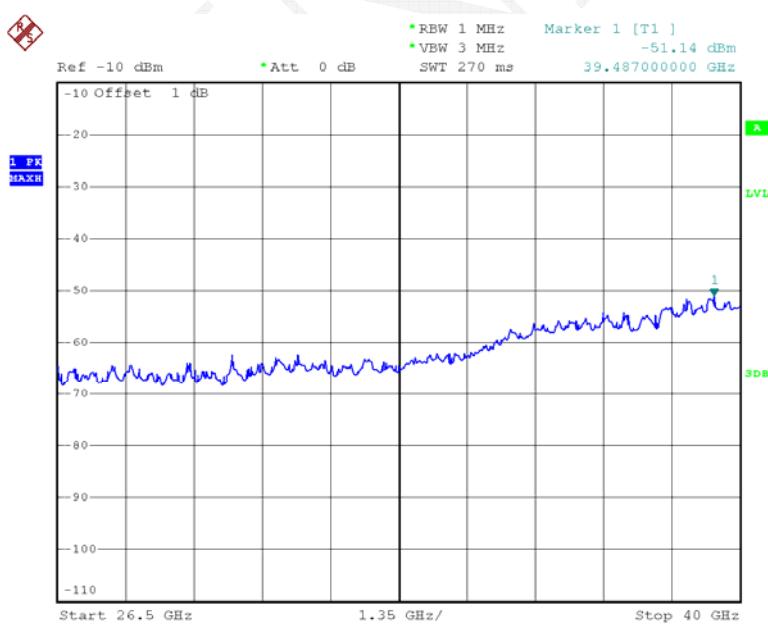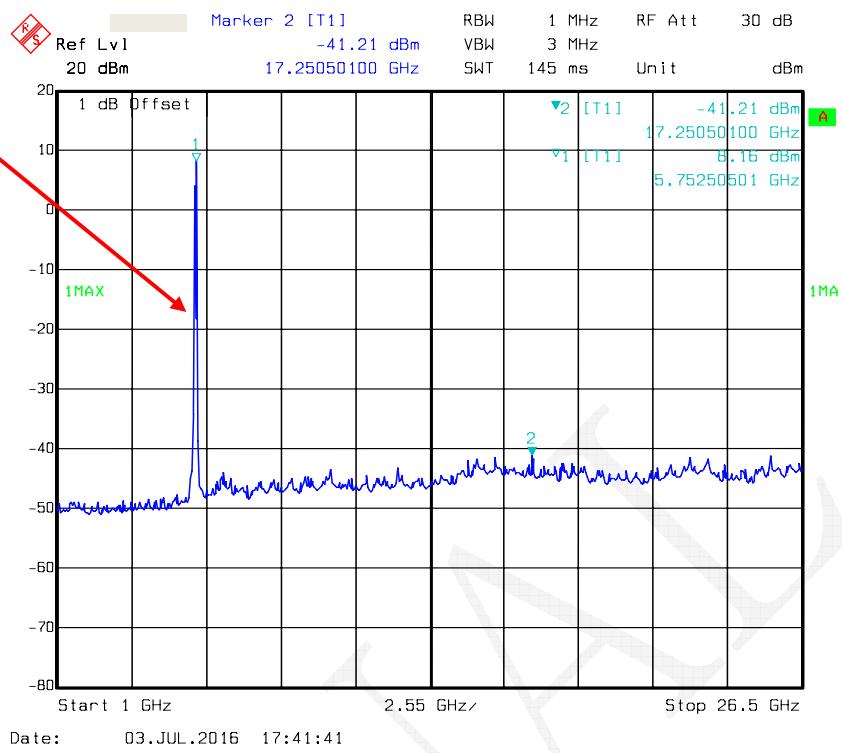
Date: 8.JUL.2016 23:26:14
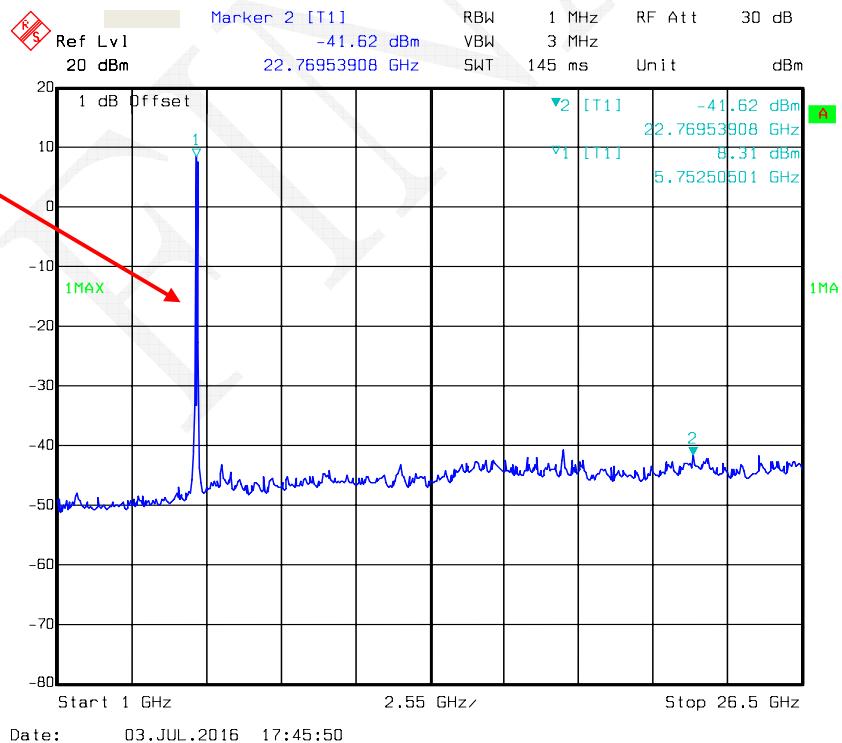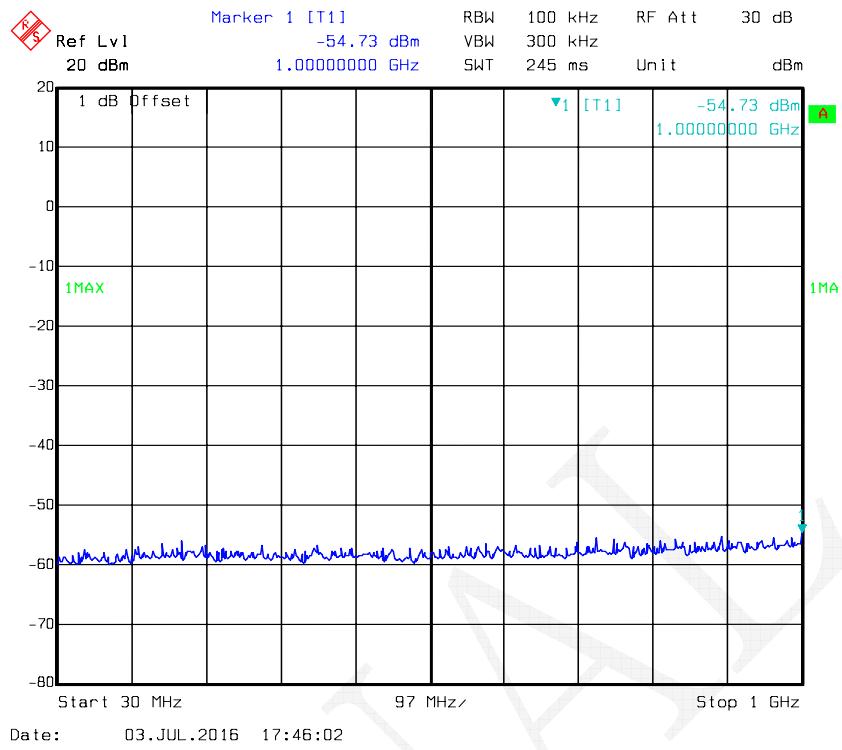
Chain 1:802.11n ht40 Low Channel
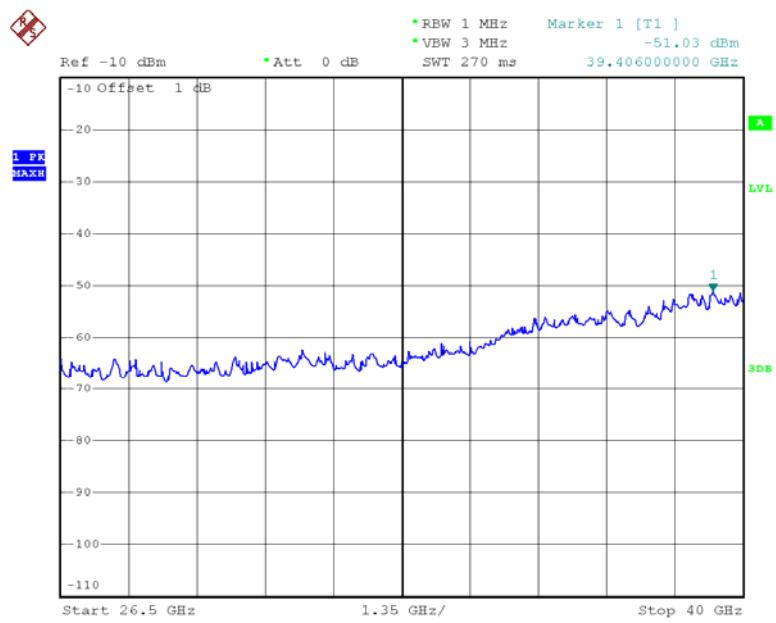
Date: 03.JUL.2016 17:41:52

Fundamental

Date: 03.JUL.2016 17:41:41
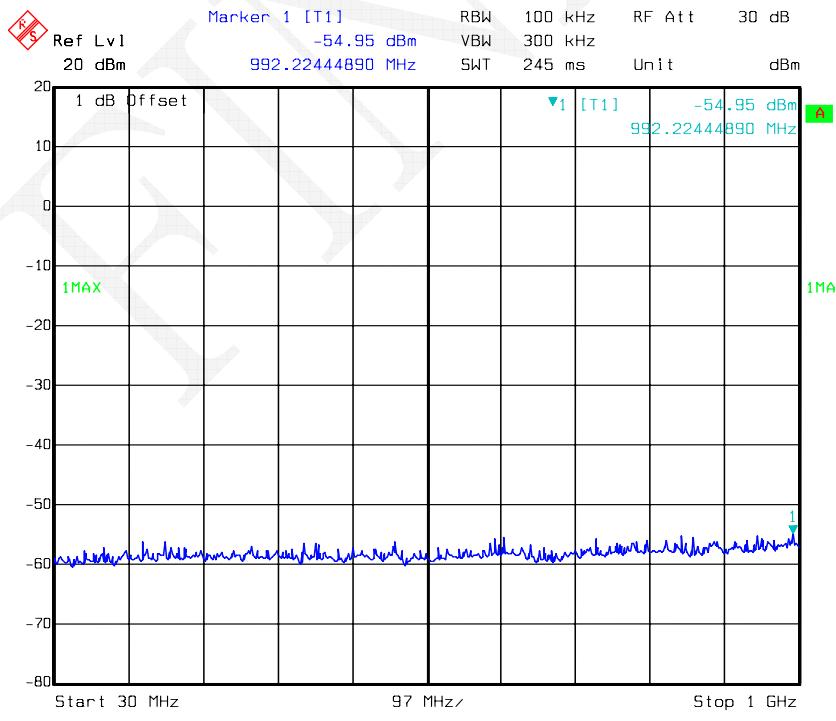
Date: 8.JUL.2016 23:26:20

Chain 1:802.11n ht40 High Channel


Fundamental
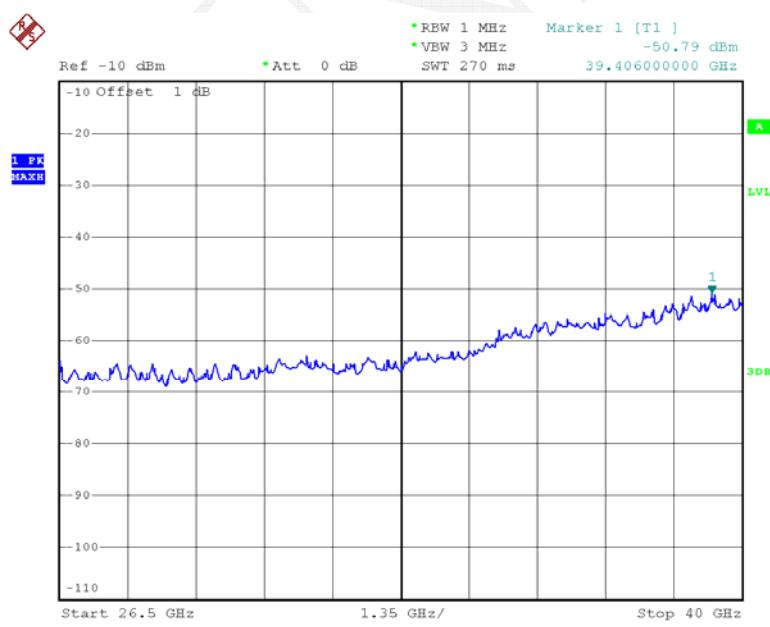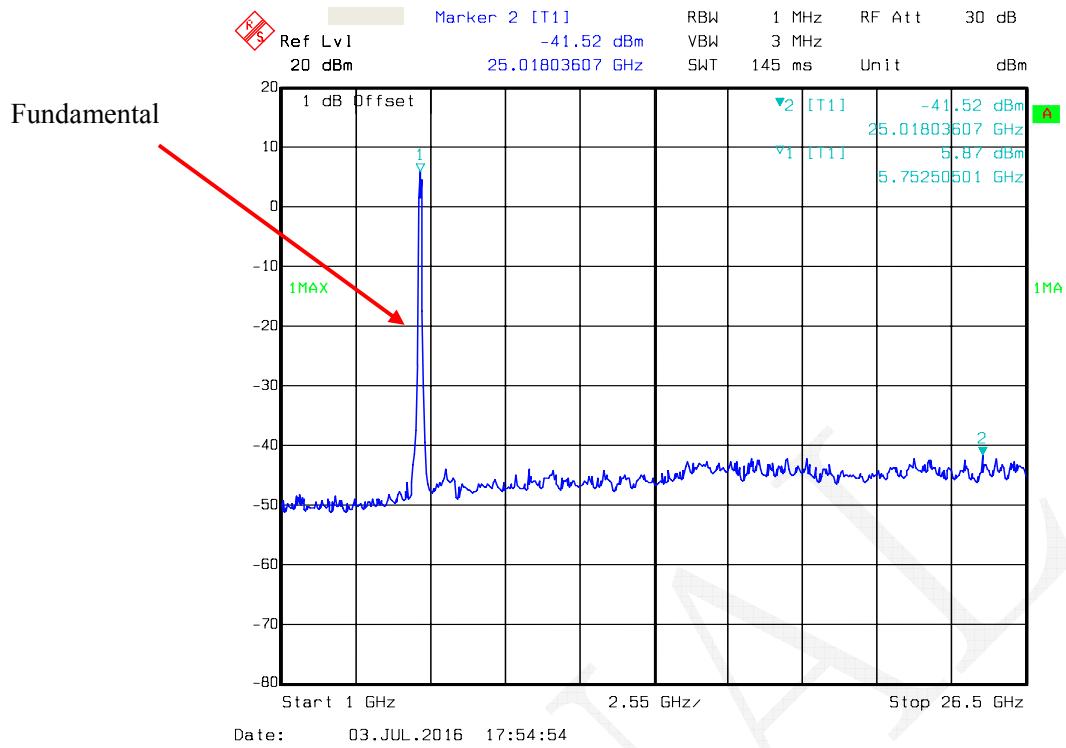
Date: 8.JUL.2016 23:26:26

Chain 1:802.11n ac80 Middle Channel

Date: 03.JUL.2016 17:55:04

Fundamental

Marker 2 [T1]	RBW 1 MHz	RF Att 30 dB
Ref Lvl	-41.52 dBm	VBW 3 MHz
20 dBm	25.01803607 GHz	SWT 145 ms	Unit	dBm

1 dB Offset
▼2 [T1]   -41.52 dBm
25.01803607 GHz
▼1 [T1]   5.87 dBm
5.75250501 GHz

1MAX   1MA

Start 1 GHz   2.55 GHz/   Stop 26.5 GHz

Date: 03.JUL.2016   17:54:54

*RBW 1 MHz   Marker 1 [T1]
*VBW 3 MHz   -50.79 dBm
Ref -10 dBm   *Att 0 dB   SWT 270 ms   39.406000000 GHz

-10 Offset 1 dB

1 PK
MAXH

LVL

3DB

Start 26.5 GHz   1.35 GHz/   Stop 40 GHz

Date: 8.JUL.2016 23:26:32

FCC §15.407(a) –EMISSION BANDWIDTH

Applicable Standard

15.407(a)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE23437	2015-11-23	2016-11-22

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

1.   According to KDB789033 D02 General U-NII Test Procedures New Rules v01r02

Test Data

Environmental Conditions

Temperature:	26.2 – 28.6 °C
Relative Humidity:	39 - 58 %
ATM Pressure:	99.3 – 100.4 kPa

The testing was performed by Costa Dong form 2016-06-14 to 2016-07-15.
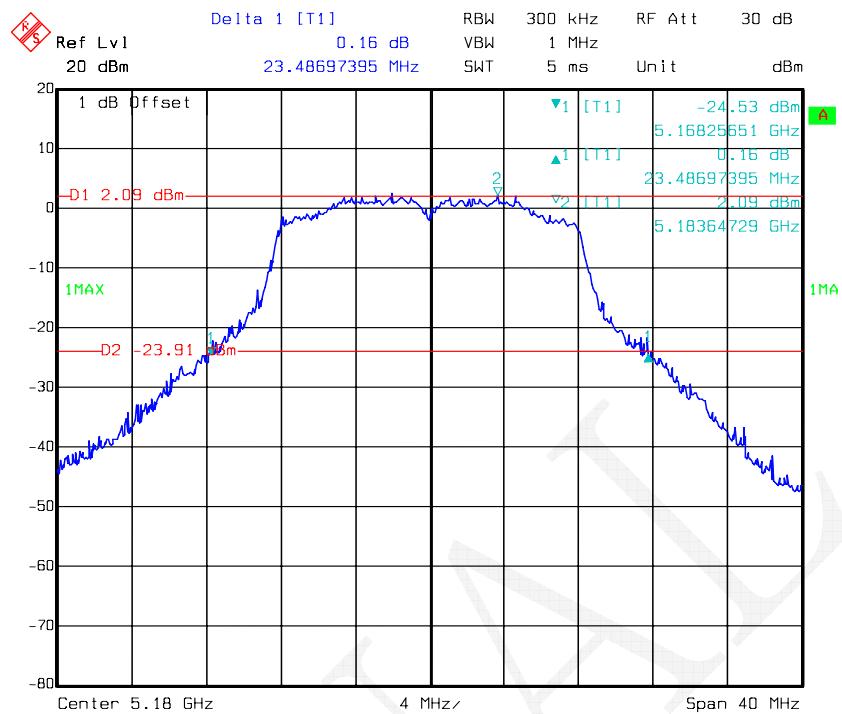
Test Result: Pass.

Please refer to the following tables and plots.
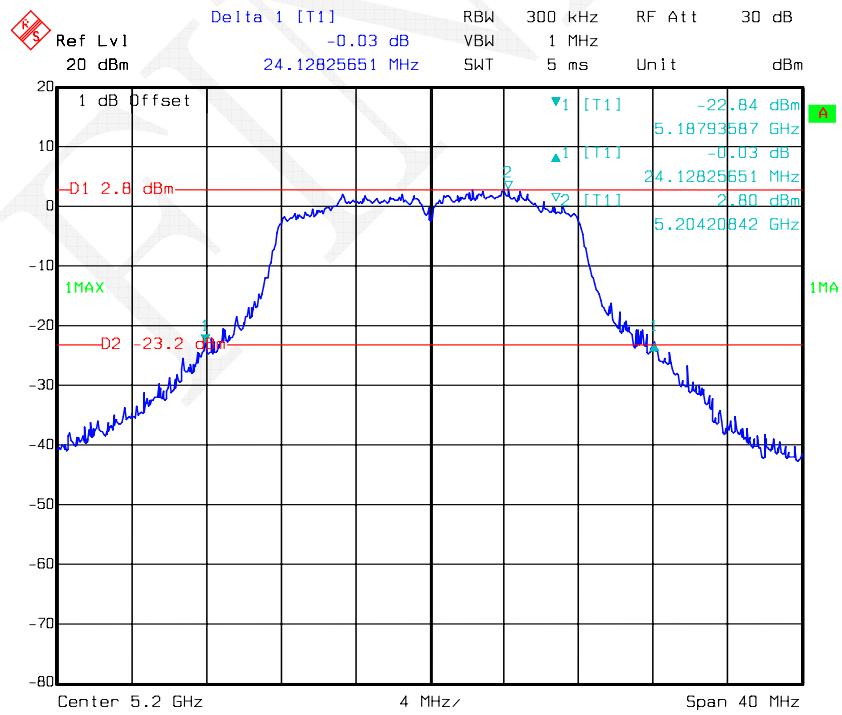
*Test mode: Transmitting (test performed at SISO mode)*

UNII Band	Mode	Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	
				Chain 0	Chain 1
5150-5250MHz	802.11 a	Low	5180	23.49	31.66
		Middle	5200	24.13	30.46
		High	5240	23.97	29.74
	802.11 n20	Low	5180	24.69	30.46
		Middle	5200	24.45	31.18
		High	5240	24.69	29.18
	802.11 n40	Low	5190	43.45	48.9
		High	5230	42.65	42.66
	802.11 ac80	Middle	5210	82.73	84.65
5250-5350MHz	802.11 a	Low	5260	23.49	29.66
		Middle	5280	22.61	29.5
		High	5320	24.21	27.01
	802.11 n20	Low	5260	24.21	29.34
		Middle	5280	23.57	29.82
		High	5320	25.01	24.37
	802.11 n40	Low	5270	50.5	54.51
		High	5310	42.32	42.48
	802.11 ac80	Middle	5290	82.73	84.01
5470-5725MHz	802.11 a	Low	5500	23.09	23.97
		Middle	5580	24.29	25.89
		High	5700	25.01	22.77
	802.11 n20	Low	5500	23.65	23.33
		Middle	5580	25.73	25.89
		High	5700	25.01	23.97
	802.11 n40	Low	5510	50.18	53.55
		Middle	5590	47.62	47.78
		High	5670	46.33	47.94
	802.11 ac80	Low	5530	82.40	82.4
		High	5610	86.25	83.37
Cross Band	802.11ac20	High	5720	29.66	28.38
	802.11ac40	High	5710	48.90	51.14
	802.11ac80	High	5690	82.73	83.05
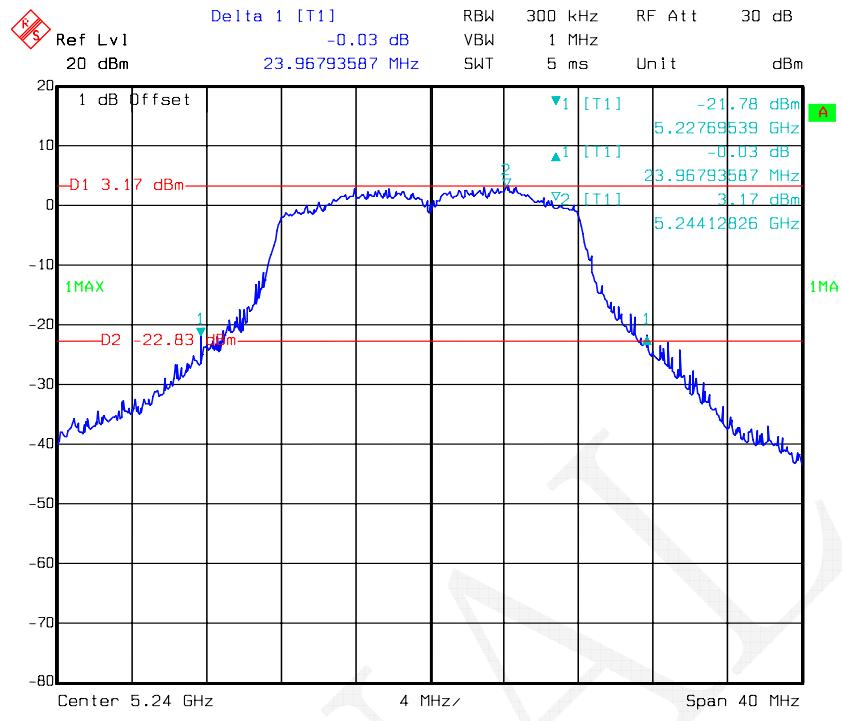
UNII Band	Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)		Limit (MHz)
				Chain 0	Chain 1	
5725-5850MHz	802.11 a	Low	5745	15.23	15.23	0.5
		Middle	5785	15.95	15.23	0.5
		High	5825	15.23	15.31	0.5
	5G 802.11 n20	Low	5745	15.31	15.31	0.5
		Middle	5785	15.55	15.79	0.5
		High	5825	16.03	15.23	0.5
	5G 802.11 n40	Low	5755	35.27	35.27	0.5
		High	5795	35.27	35.27	0.5
	802.11 ac80	Middle	5775	75.67	75.67	0.5

5150-5250MHz:

Chain 0:802.11a Low Channel
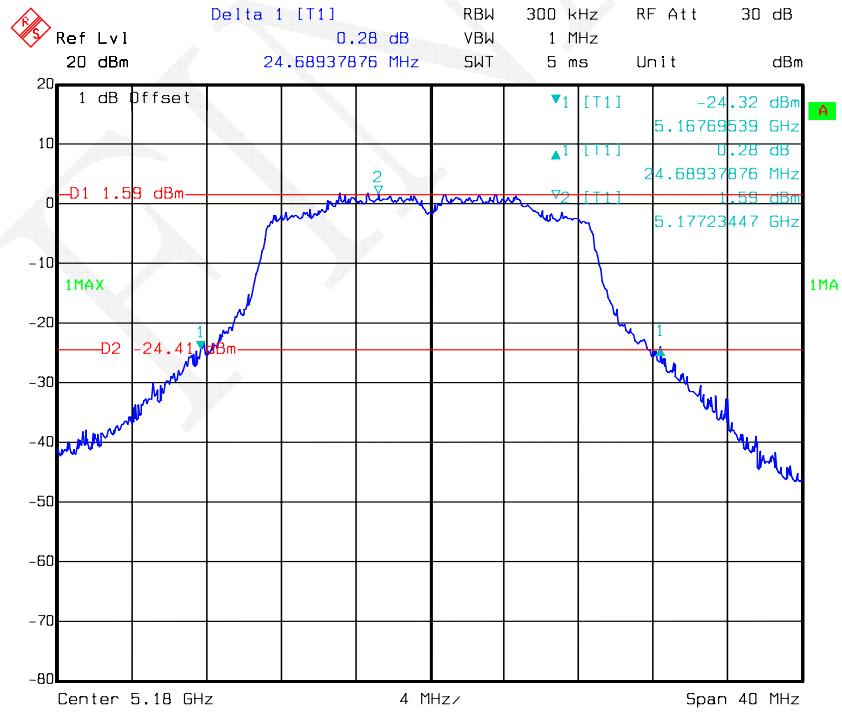
Date:　　14.JUN.2016　23:54:51

Chain 0:802.11a Middle Channel
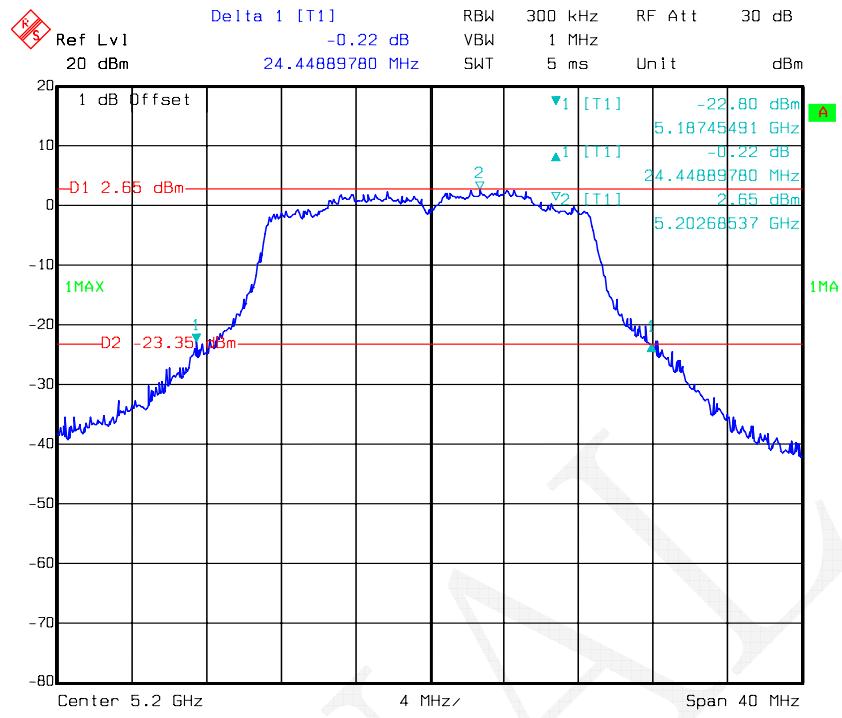
Date:　　14.JUN.2016　23:58:36

Chain 0:802.11a High Channel
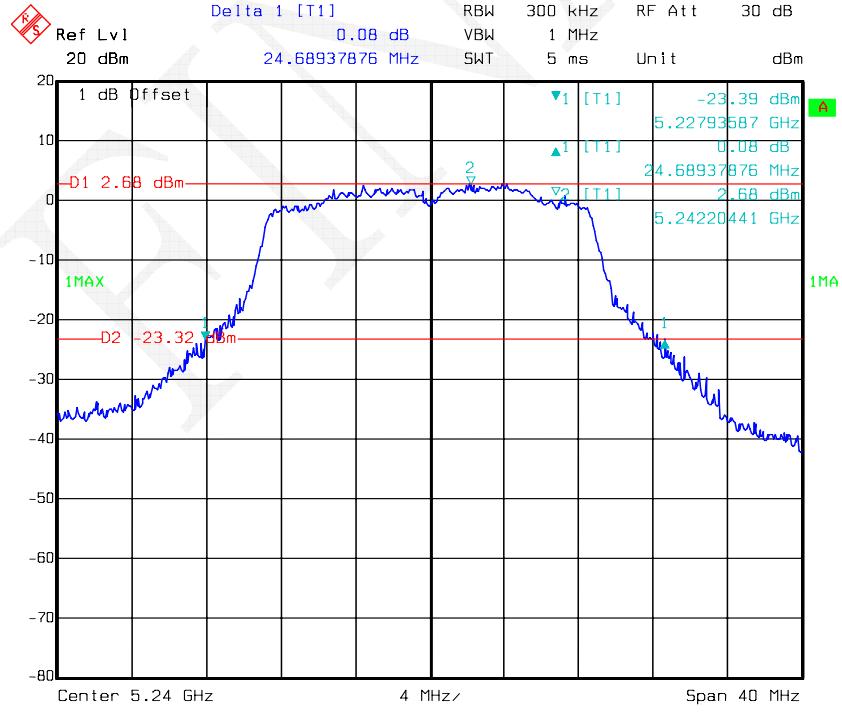
Date: 15.JUN.2016 00:00:56

Chain 0:802.11n ht20 Low Channel
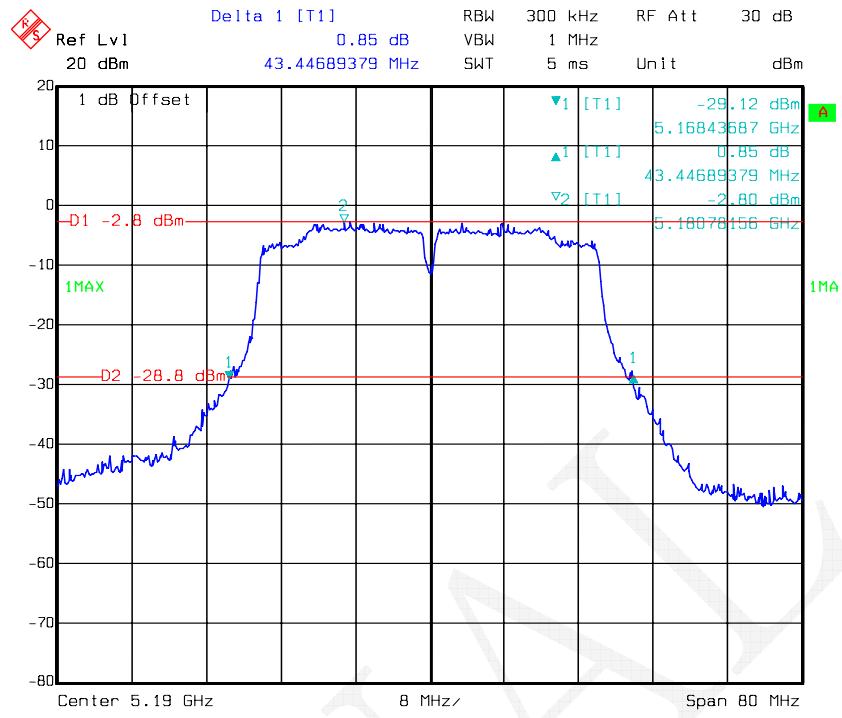
Date: 15.JUN.2016 00:05:04

Chain 0:802.11n ht20 Middle Channel
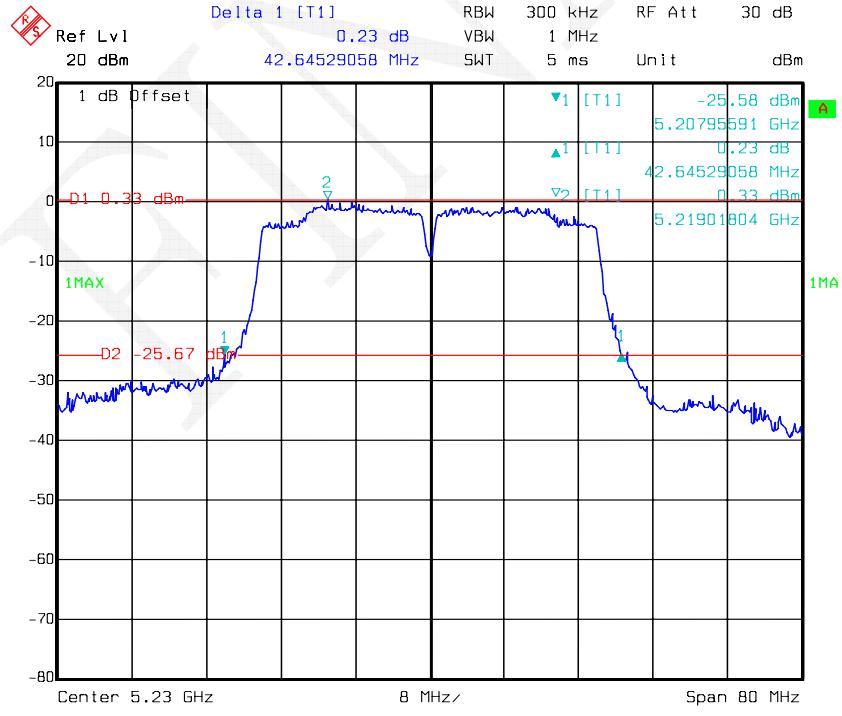
Date: 15.JUN.2016 00:07:28

Chain 0:802.11n ht20 High Channel
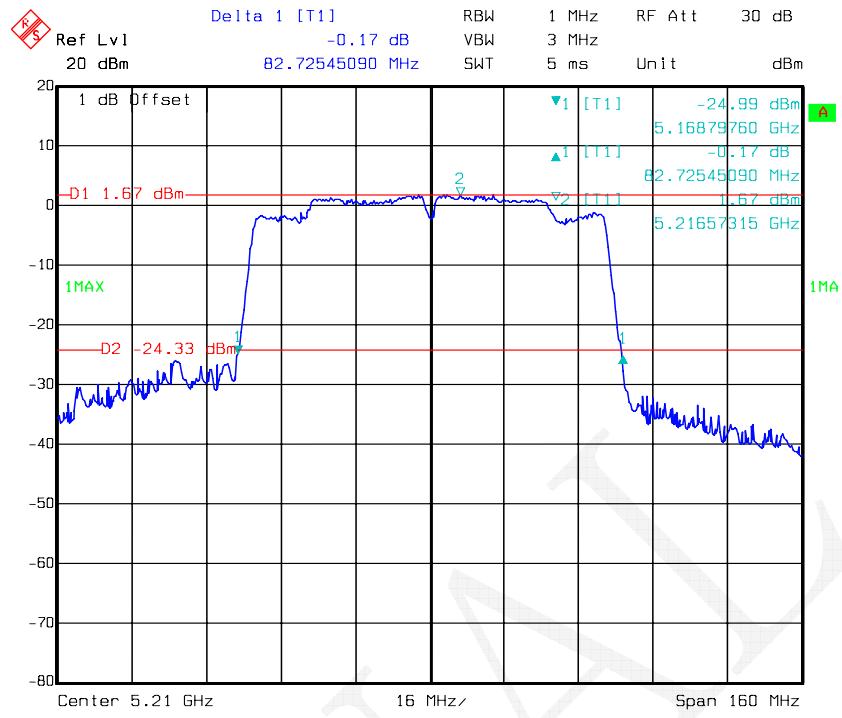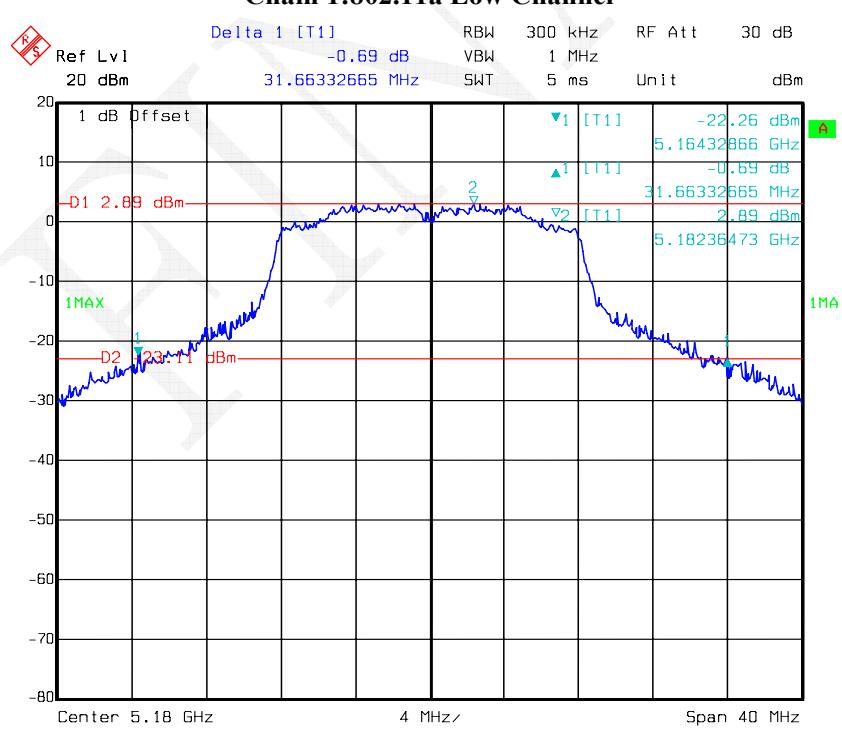
Date: 15.JUN.2016 00:09:39
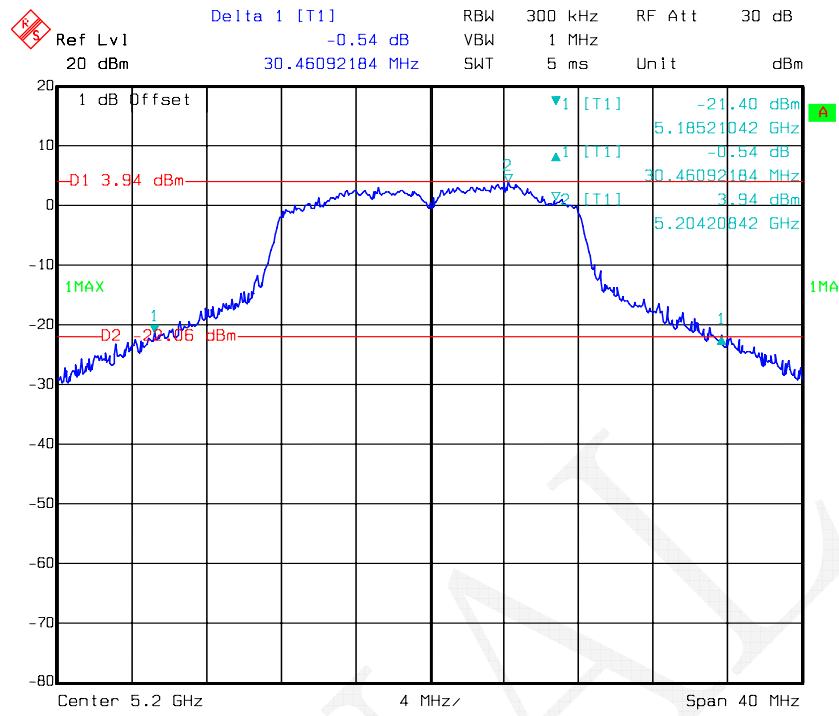
Chain 0:802.11n ht40 Low Channel

Date:　　　15.JUN.2016　00:12:22
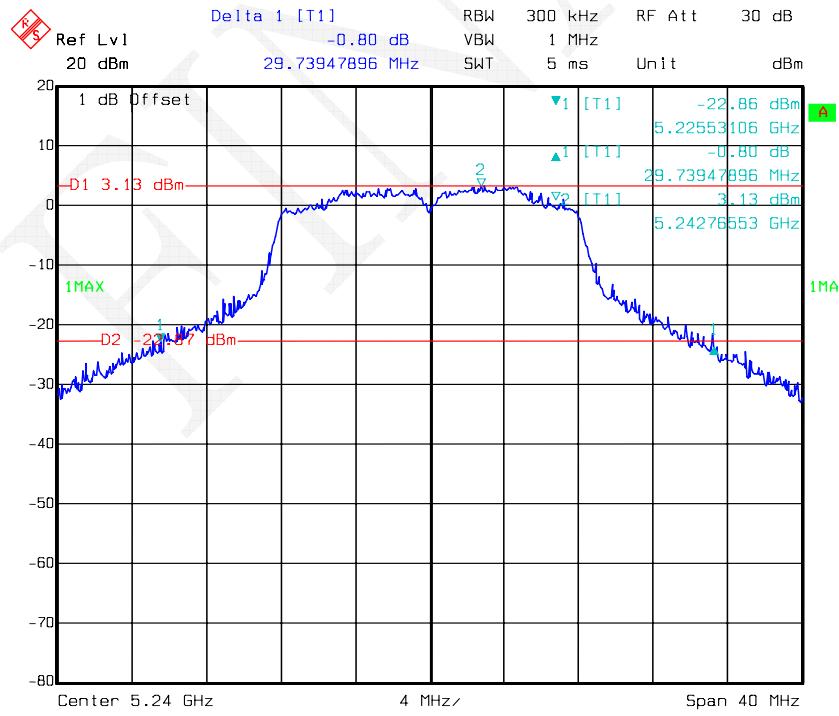
Chain 0:802.11n ht40 High Channel

Date:　　　15.JUN.2016　00:16:49
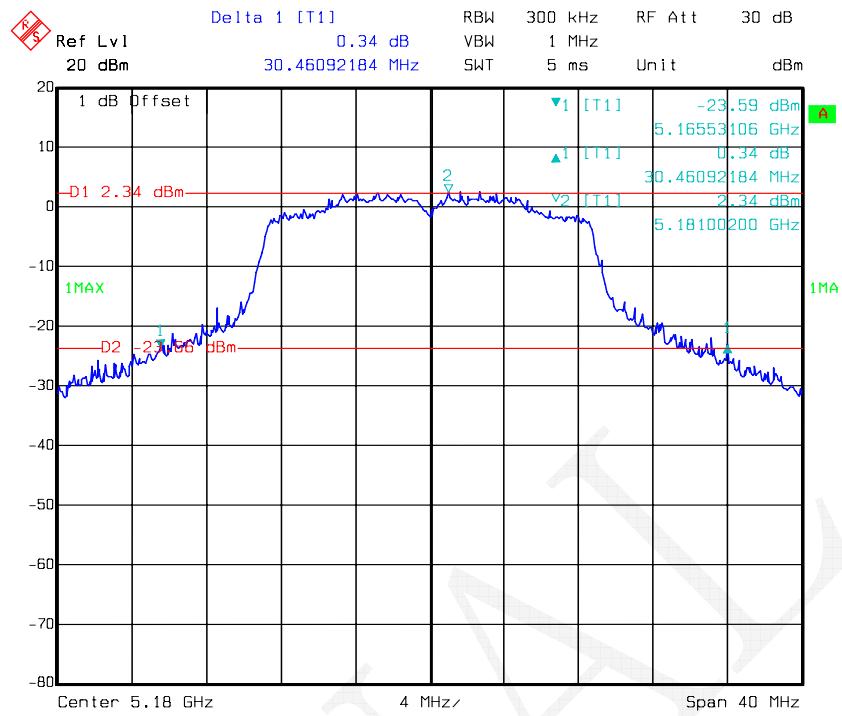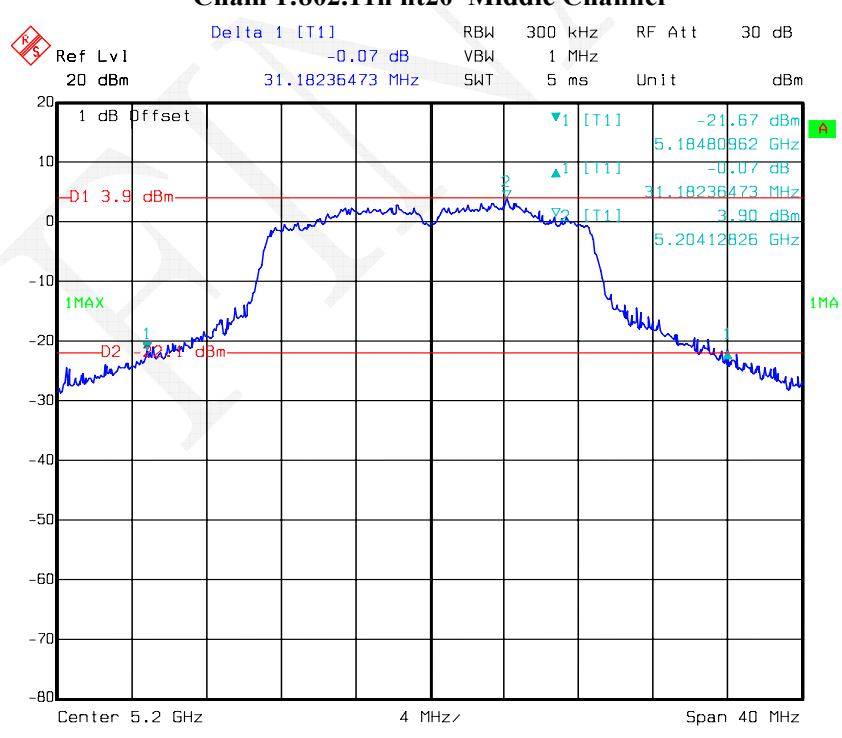
Chain 0:802.11n ac80 Middle Channel

Date: 15.JUN.2016 00:20:07

Chain 1:802.11a Low Channel

Date: 01.JUL.2016 19:47:34
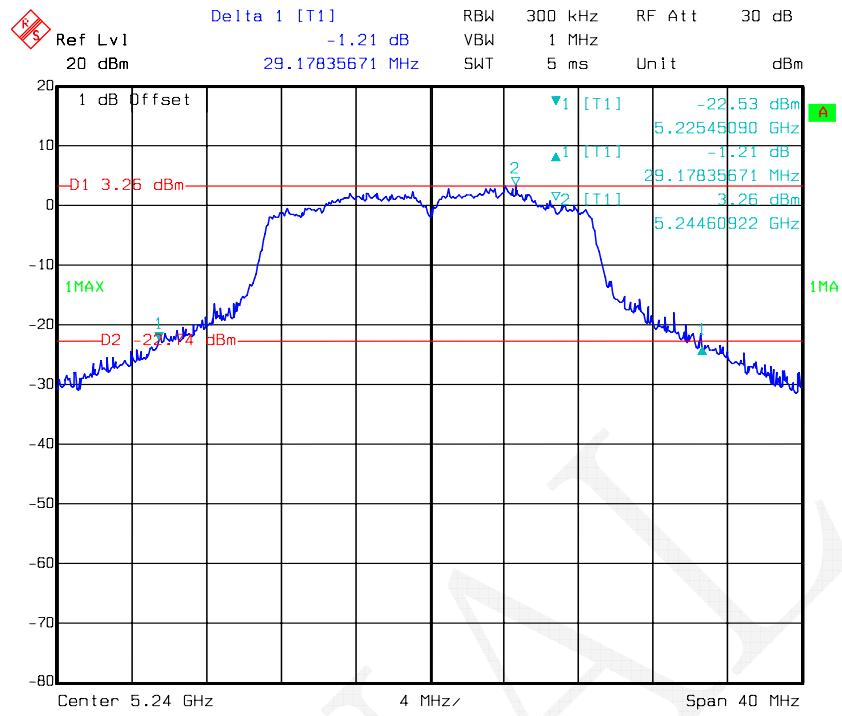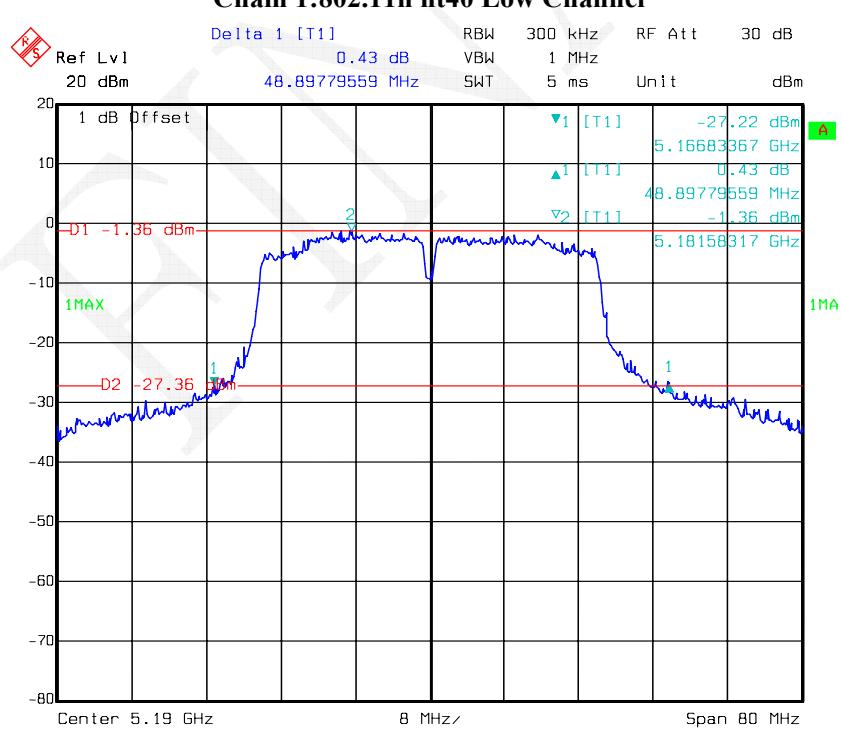
Chain 1:802.11a Middle Channel
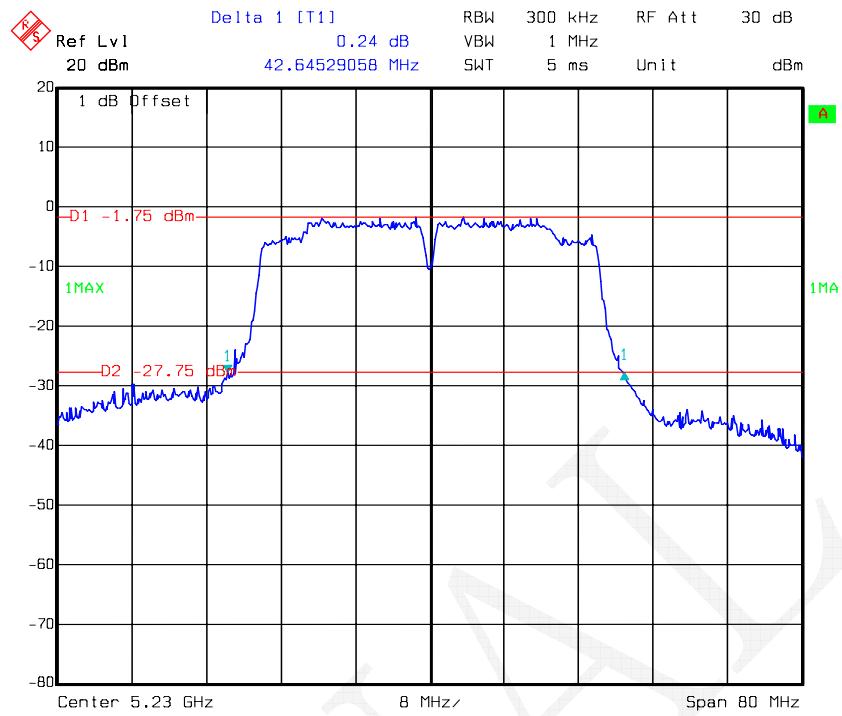
Date: 01.JUL.2016 19:49:58

Chain 1:802.11a High Channel
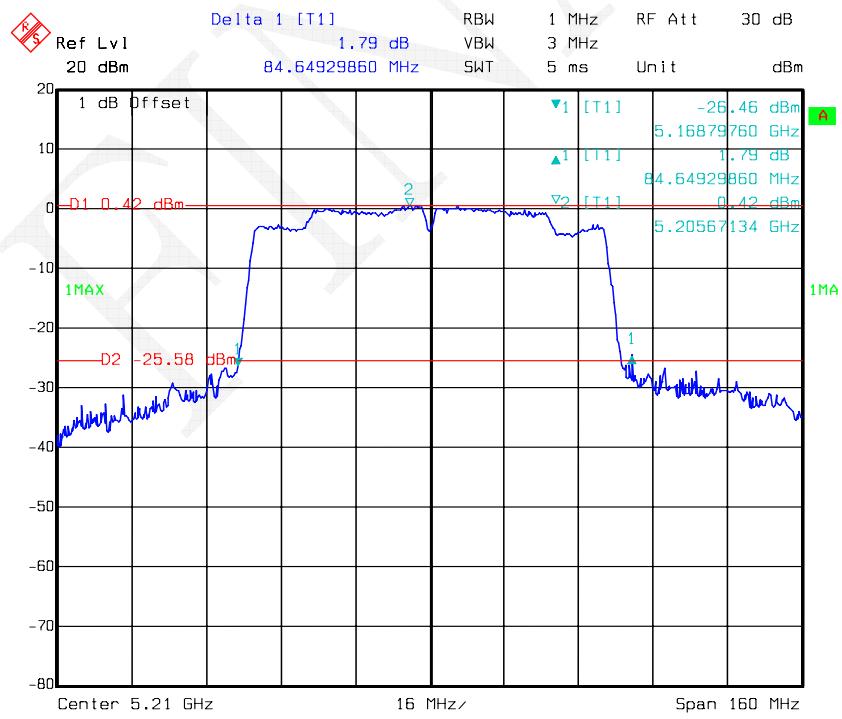
Date: 01.JUL.2016 19:52:02

Chain 1:802.11n ht20 Low Channel

Date: 01.JUL.2016   19:58:17

Chain 1:802.11n ht20 Middle Channel

Date: 01.JUL.2016   20:01:15

Chain 1:802.11n ht20 High Channel


```
Delta 1 [T1]              RBW    300 kHz   RF Att    30 dB
Ref Lvl              -1.21 dB     VBW     1 MHz
20 dBm         29.17835671 MHz    SWT     5 ms    Unit        dBm

20  1 dB Offset                              ▼1 [T1]        -22.53 dBm
                                                        5.22545090 GHz   A
10                                           ▲1 [T1]         -1.21 dB
                                      2                 29.17835671 MHz
D1 3.26 dBm                         ▽     ▽2 [T1]          3.26 dBm
 0                                                      5.24460922 GHz
-10                                                                    1MA
1MAX
-20
D2 -22.74 dBm
-30

-40

-50

-60

-70

-80
    Center 5.24 GHz            4 MHz/              Span 40 MHz
Date:    01.JUL.2016  20:03:35
```

Chain 1:802.11n ht40 Low Channel


```
Delta 1 [T1]              RBW    300 kHz   RF Att    30 dB
Ref Lvl               0.43 dB     VBW     1 MHz
20 dBm         48.89779559 MHz    SWT     5 ms    Unit        dBm

20  1 dB Offset                              ▼1 [T1]        -27.22 dBm
                                                        5.16683367 GHz   A
10                                           ▲1 [T1]          0.43 dB
                            2                          48.89779559 MHz
 0  D1 -1.36 dBm                         ▽2 [T1]         -1.36 dBm
                                                        5.18158317 GHz
-10
1MAX                                                                   1MA
-20
    D2 -27.36 dBm                              1
-30

-40

-50

-60

-70

-80
    Center 5.19 GHz            8 MHz/              Span 80 MHz
Date:    01.JUL.2016  20:09:57
```

Chain 1:802.11n ht40 High Channel

Date: 15.JUL.2016 21:59:15
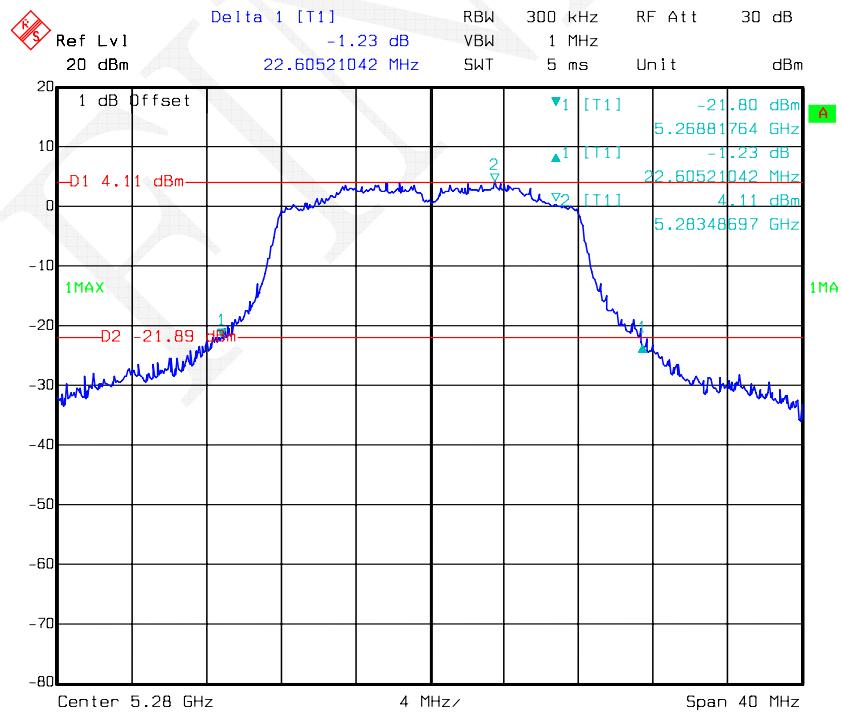
Chain 1:802.11n ac80 Middle Channel

Date: 01.JUL.2016 20:23:04
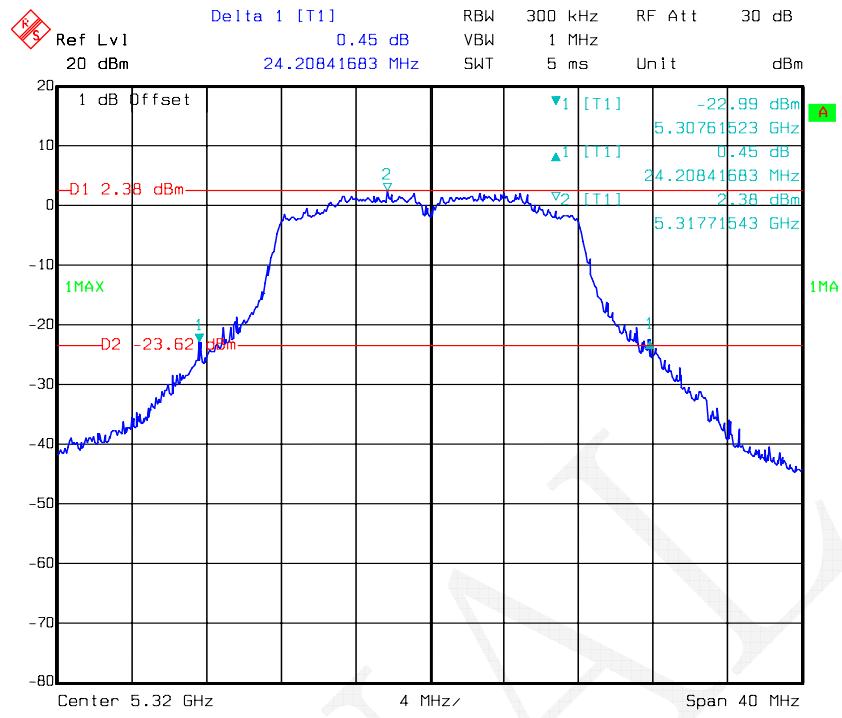
5250-5350MHz:

Chain 0:802.11a Low Channel
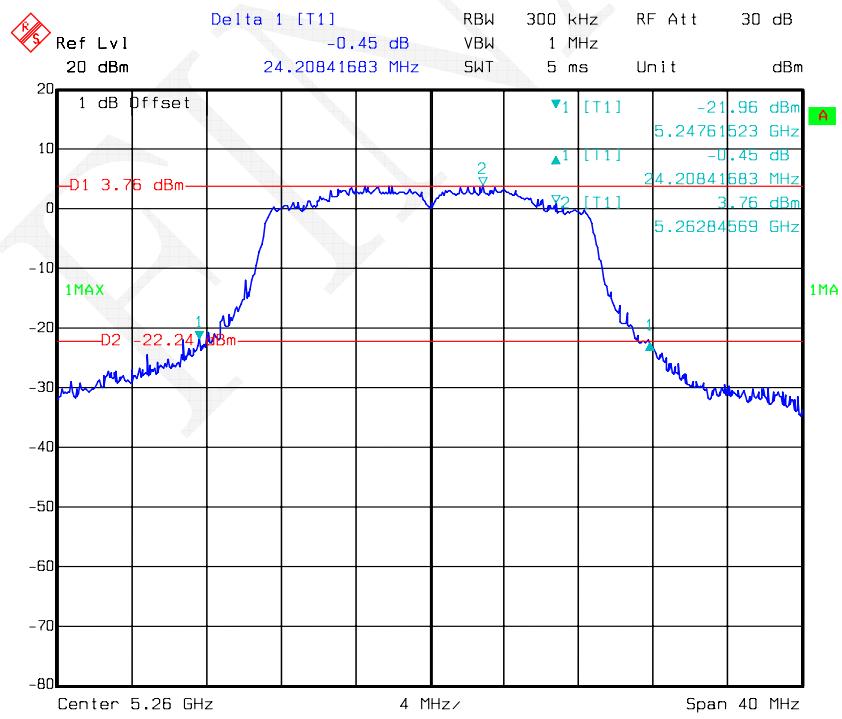
Date: 15.JUN.2016 00:23:50

Chain 0:802.11a Middle Channel
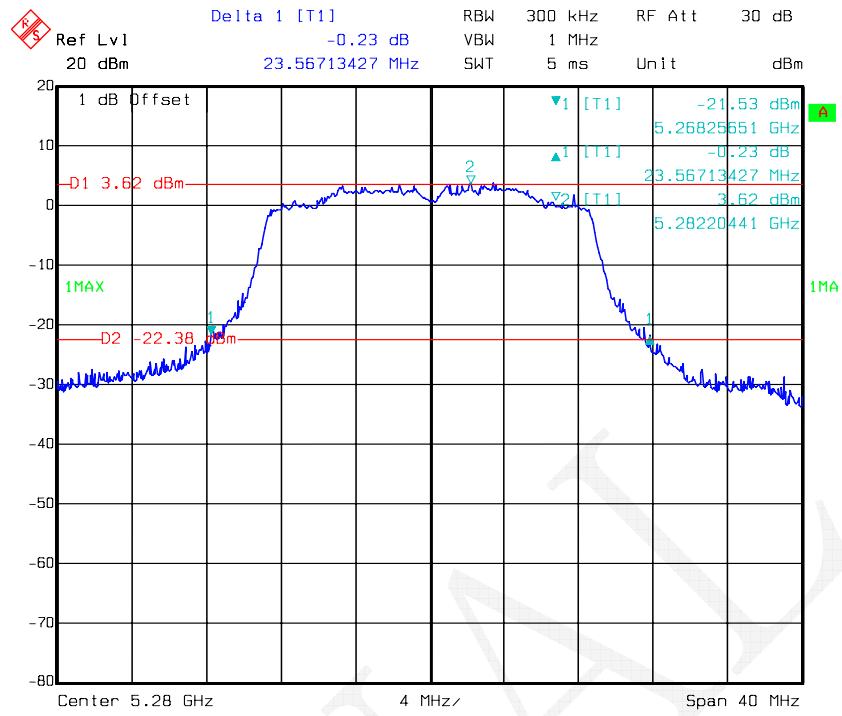
Date: 15.JUN.2016 00:26:02

Chain 0:802.11a High Channel
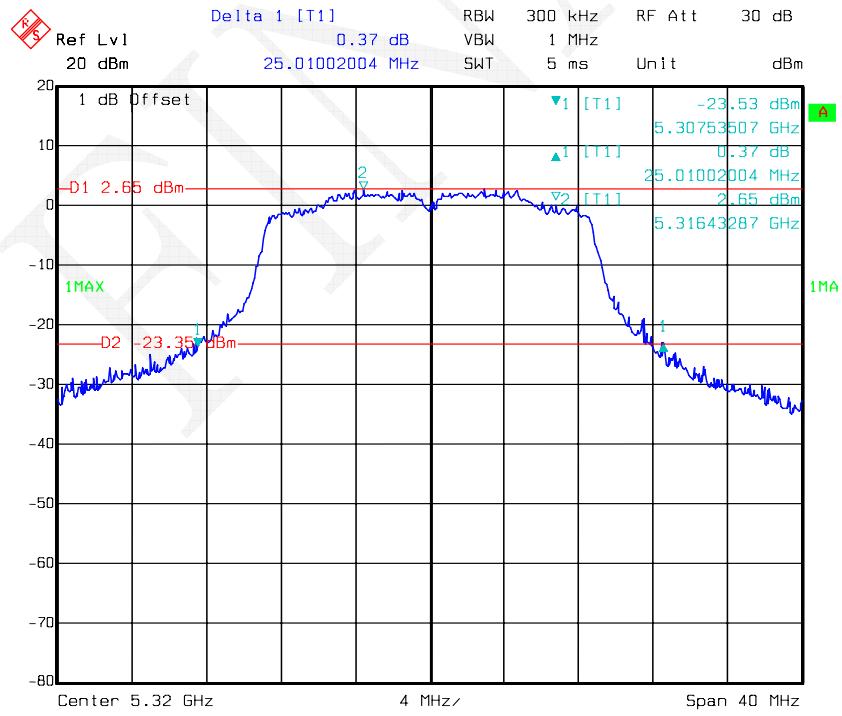
Date:　　　15.JUN.2016　00:27:48

Chain 0:802.11n ht20 Low Channel
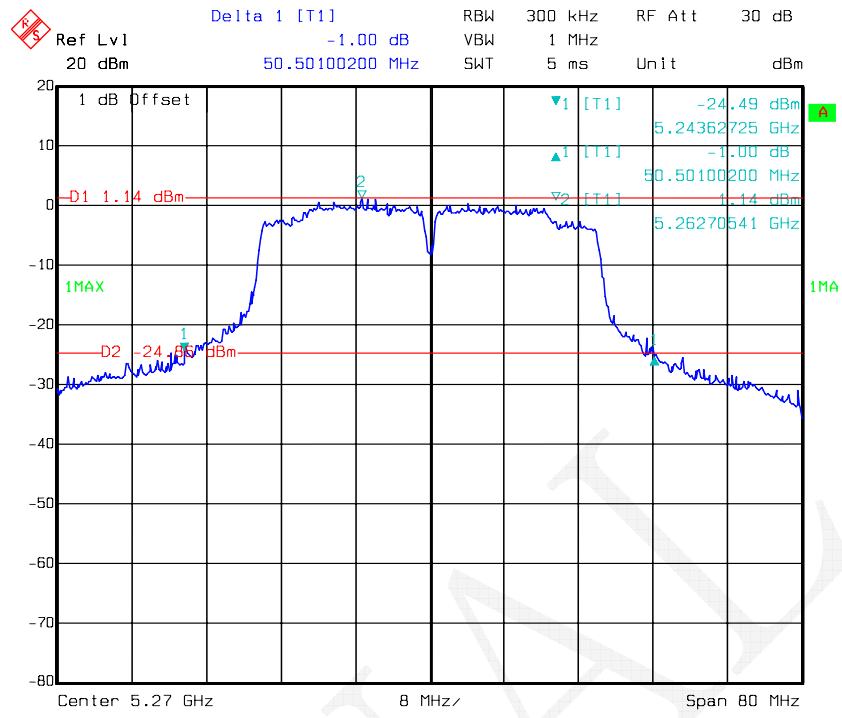
Date:　　　15.JUN.2016　00:30:21

Chain 0:802.11n ht20 Middle Channel
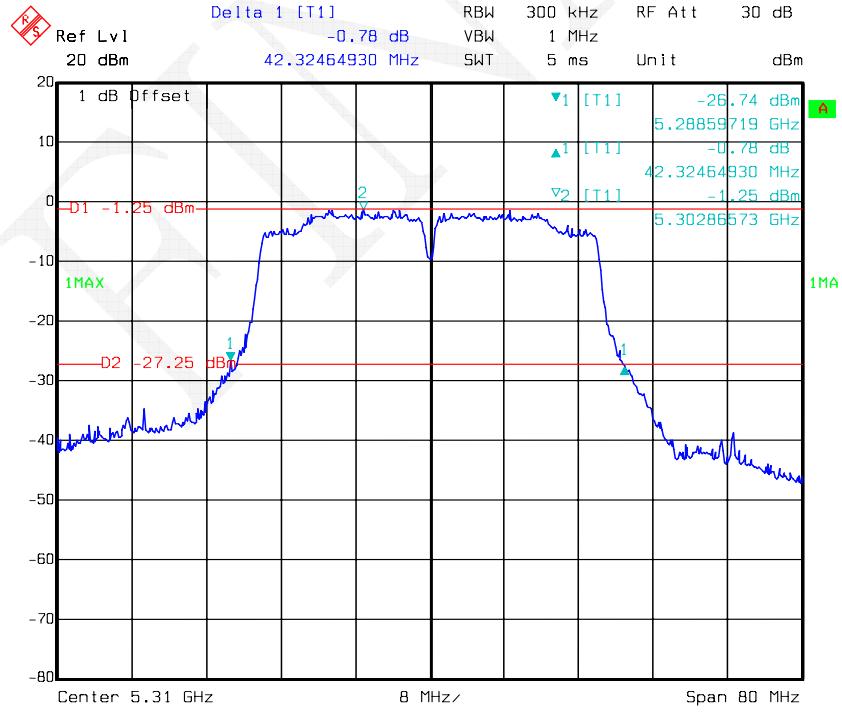
Date: 15.JUN.2016 00:32:34

Chain 0:802.11n ht20 High Channel
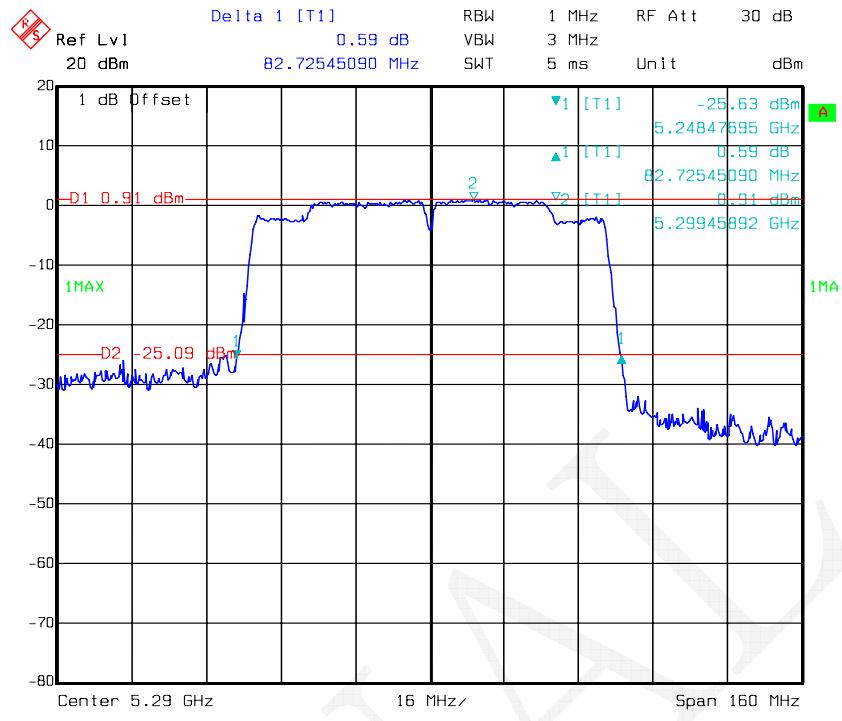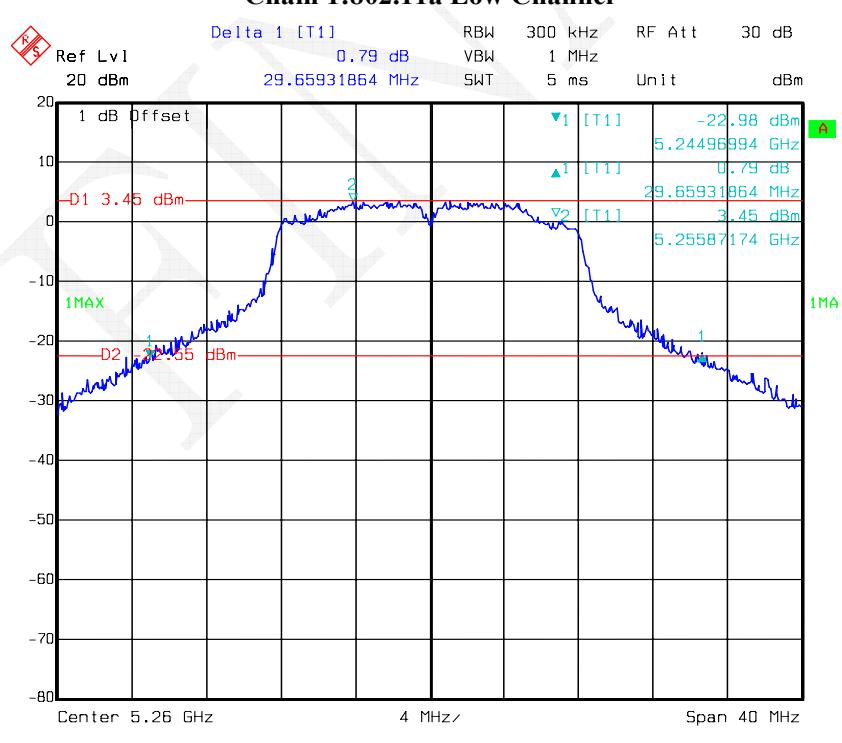
Date: 01.JUL.2016 23:23:54

Chain 0:802.11n ht40 Low Channel
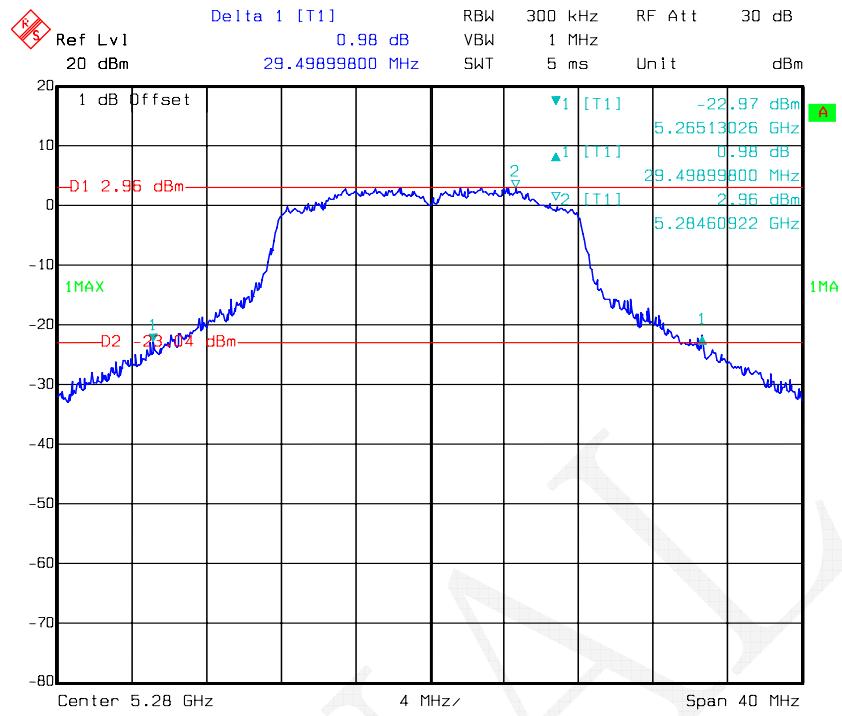
```
                                    Delta 1 [T1]          RBW   300 kHz    RF Att    30 dB
    Ref Lvl                                 -1.00 dB      VBW   1 MHz
    20 dBm                          50.50100200 MHz       SWT   5 ms       Unit       dBm

  20  1 dB Offset                                         ▼1 [T1]          -24.49 dBm     A
                                                                        5.24362725 GHz
  10                                                      ▲1 [T1]           -1.00 dB
                                                                      50.50100200 MHz
  D1 1.14 dBm                                2            ▽2 [T1]            1.14 dBm
   0                                                                   5.26270541 GHz
 -10
 -20
  1MAX                                                                              1MA
       D2 -24.49 dBm        1
 -30
 -40
 -50
 -60
 -70
 -80
    Center 5.27 GHz                          8 MHz/                  Span 80 MHz
Date:      01.JUL.2016   23:29:43
```

Chain 0:802.11n ht40 High Channel
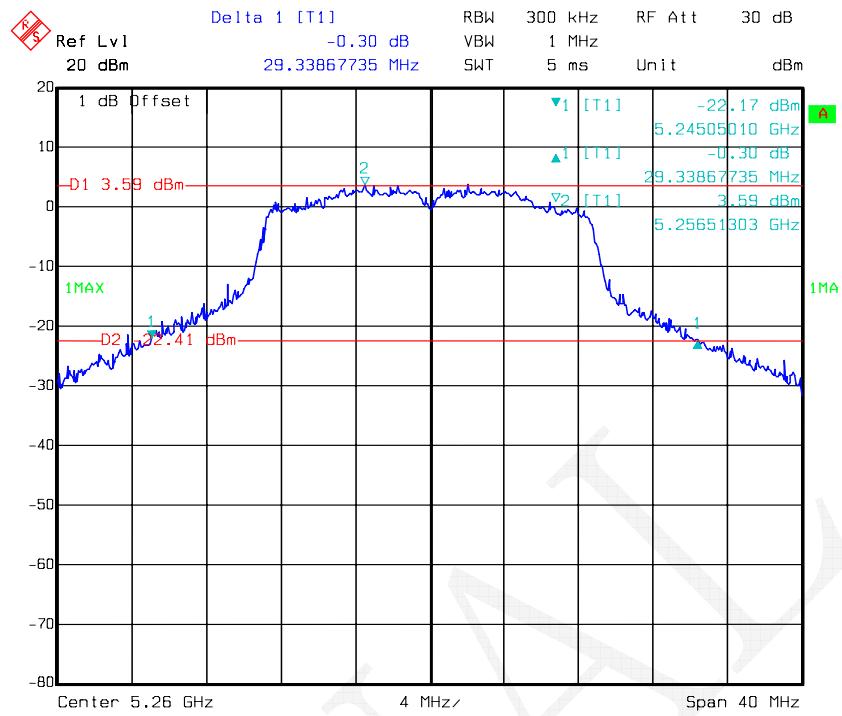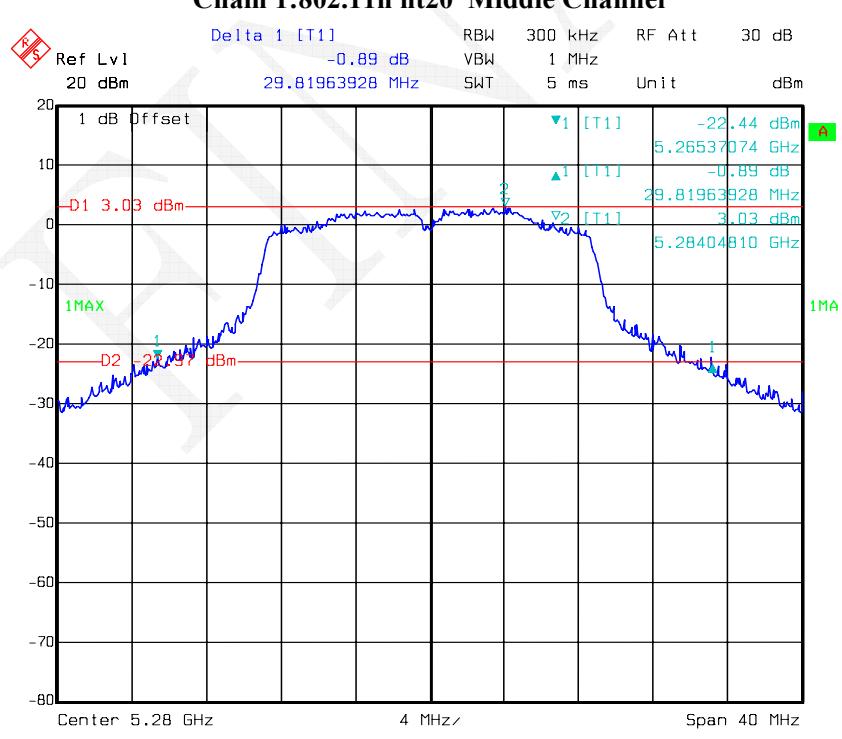
```
                                    Delta 1 [T1]          RBW   300 kHz    RF Att    30 dB
    Ref Lvl                                 -0.78 dB      VBW   1 MHz
    20 dBm                          42.32464930 MHz       SWT   5 ms       Unit       dBm

  20  1 dB Offset                                         ▼1 [T1]          -26.74 dBm     A
                                                                        5.28859719 GHz
  10                                                      ▲1 [T1]           -0.78 dB
                                                                      42.32464930 MHz
  D1 -1.25 dBm                               2            ▽2 [T1]           -1.25 dBm
   0                                                                   5.30286573 GHz
 -10
 -20
  1MAX                                                                              1MA
       D2 -27.25 dBm        1                              1
 -30
 -40
 -50
 -60
 -70
 -80
    Center 5.31 GHz                          8 MHz/                  Span 80 MHz
Date:      15.JUN.2016   00:39:06
```

Chain 0:802.11n ac80 Middle Channel

Date: 15.JUN.2016 00:41:36

Chain 1:802.11a Low Channel

Date: 01.JUL.2016 20:26:28
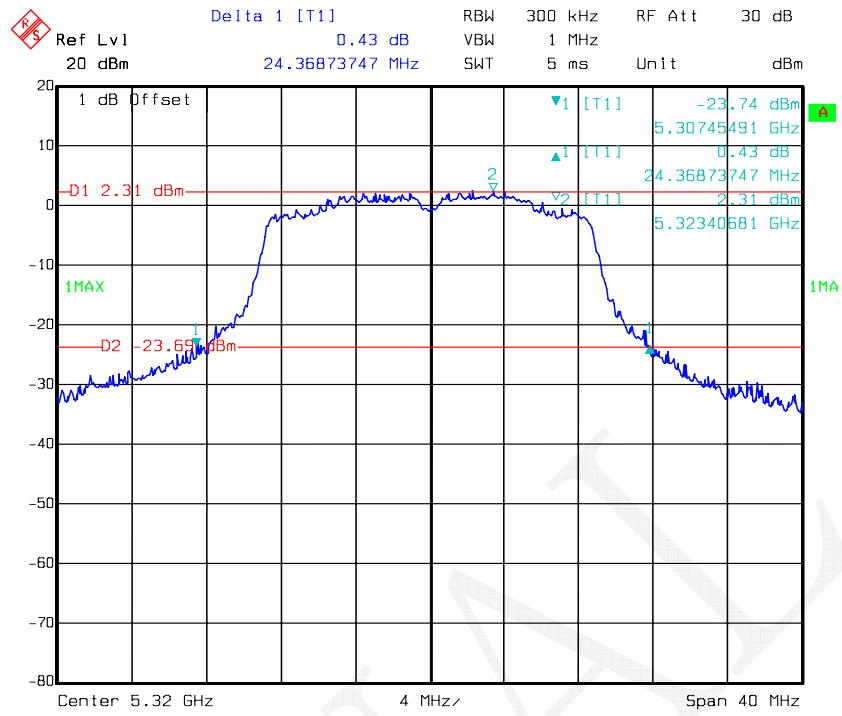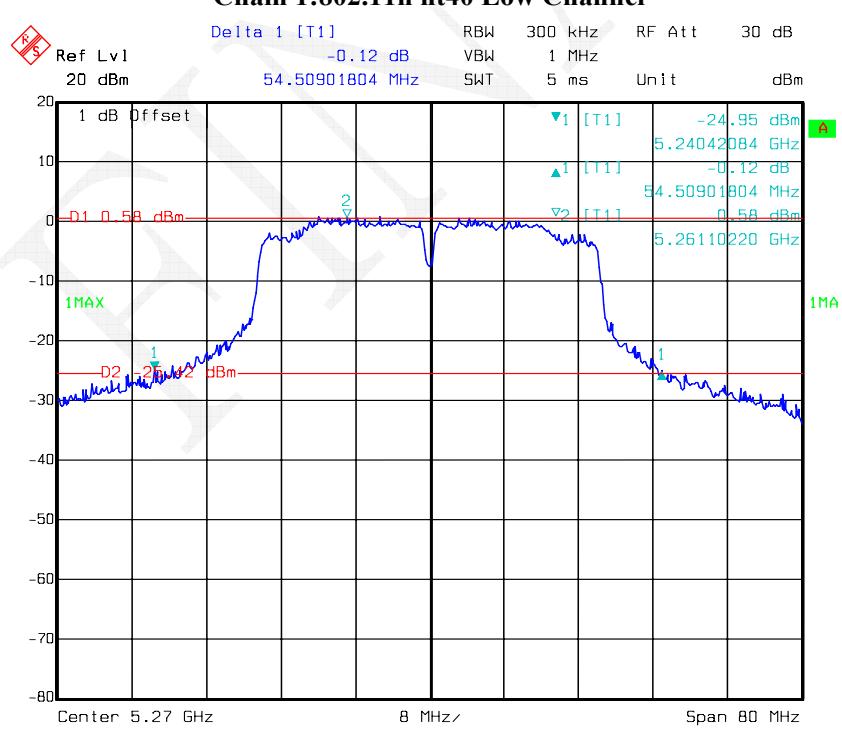
Chain 1:802.11a Middle Channel
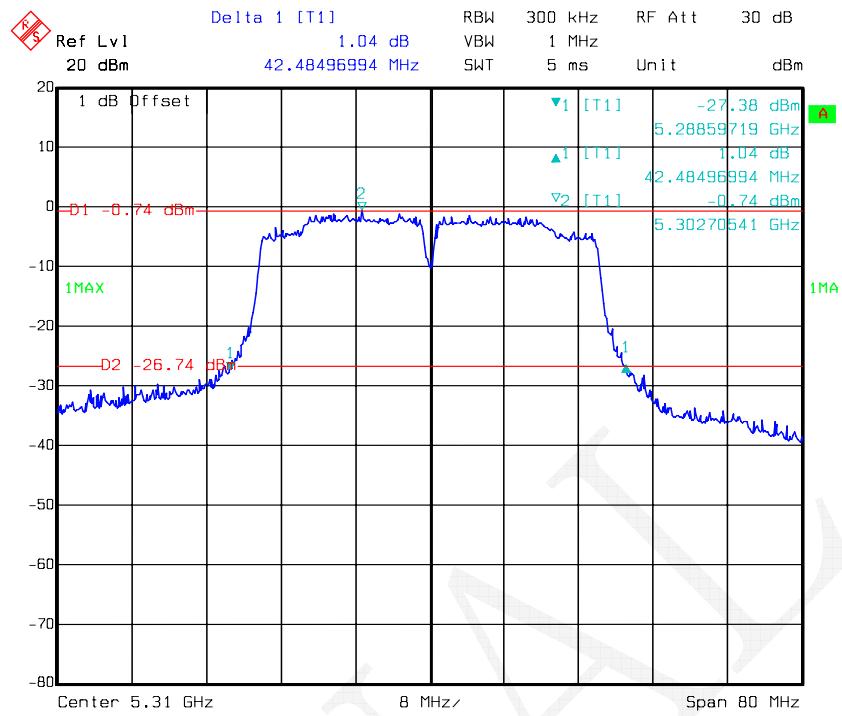
Date:　　01.JUL.2016　20:28:56

Chain 1:802.11a High Channel

Date:　　01.JUL.2016　20:34:10

## Chain 1:802.11n ht20 Low Channel

Date: 01.JUL.2016 20:36:54

Chain 1:802.11n ht20 Middle Channel

Date: 01.JUL.2016 20:39:13

Chain 1:802.11n ht20 High Channel

Delta 1 [T1]		RBW	300 kHz	RF Att　30 dB
Ref Lvl	0.43 dB	VBW	1 MHz	
20 dBm	24.36873747 MHz	SWT	5 ms	Unit　dBm

```
 20
     1 dB Offset                              ▼1 [T1]        -23.74 dBm
                                                          5.30745491 GHz
 10
                                              ▲1 [T1]            0.43 dB
                                                          24.36873747 MHz
    D1 2.31 dBm                         2      ▽2 [T1]            2.31 dBm
  0                                                         5.32340681 GHz
-10
    1MAX                                                               1MA
-20
    D2 -23.69 dBm
-30
-40
-50
-60
-70
-80
    Center 5.32 GHz              4 MHz/             Span 40 MHz
```

Date:　　01.JUL.2016　23:21:26

Chain 1:802.11n ht40 Low Channel

Delta 1 [T1]		RBW	300 kHz	RF Att　30 dB
Ref Lvl	-0.12 dB	VBW	1 MHz	
20 dBm	54.50901804 MHz	SWT	5 ms	Unit　dBm

```
 20
     1 dB Offset                              ▼1 [T1]        -24.95 dBm
                                                          5.24042084 GHz
 10
                                              ▲1 [T1]           -0.12 dB
                                                          54.50901804 MHz
    D1 0.58 dBm                    2           ▽2 [T1]            0.58 dBm
  0                                                         5.26110220 GHz
-10
    1MAX                                                               1MA
-20
    D2 -24.42 dBm
-30
-40
-50
-60
-70
-80
    Center 5.27 GHz              8 MHz/             Span 80 MHz
```

Date:　　01.JUL.2016　23:31:38

Chain 1:802.11n ht40 High Channel

Date: 01.JUL.2016 23:41:48

Chain 1:802.11n ac80 Middle Channel

Date: 01.JUL.2016 20:48:17