# Annex A

# OBW and Mask Plots

## Table of Contents

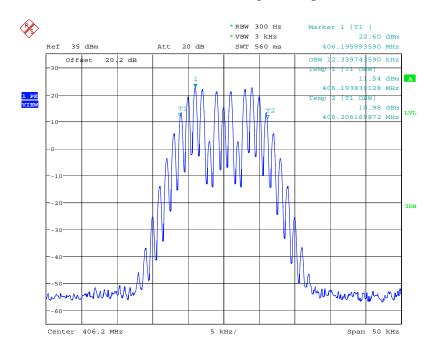## EXHIBIT 1.    OBW ANALOG 25KHZ

### 406.2 MHz, Signal Input_0.2dB below
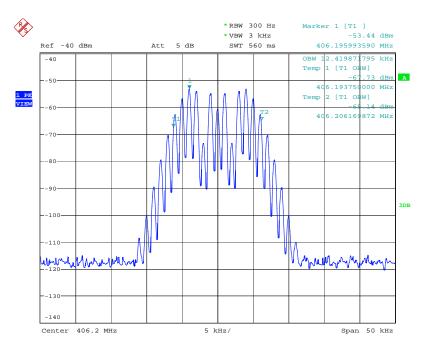


Date: 7.MAR.2018  10:17:13

### 406.2 MHz, Signal Output



Date: 7.MAR.2018  13:57:13

## 406.2 MHz, Signal Input_3dB



Date: 7.MAR.2018  10:18:27

## 406.2 MHz, Signal Output



Date: 7.MAR.2018  13:58:57
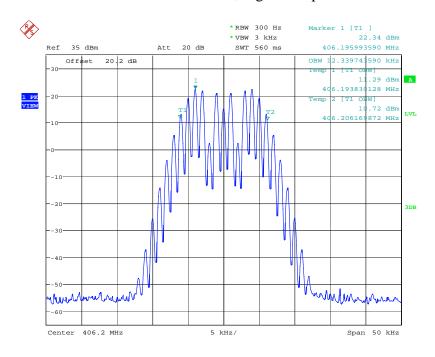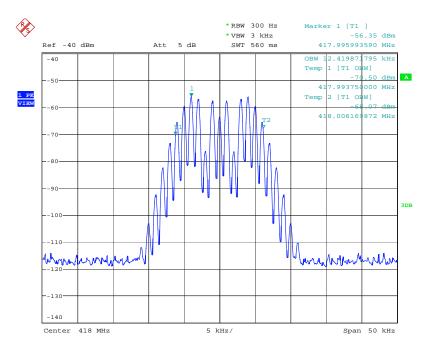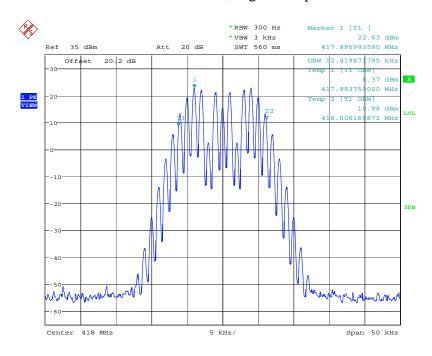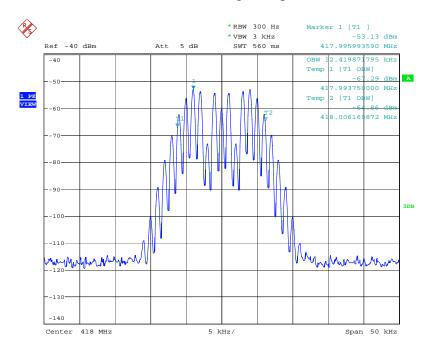
## 418 MHz, Signal Input_0.2dB below



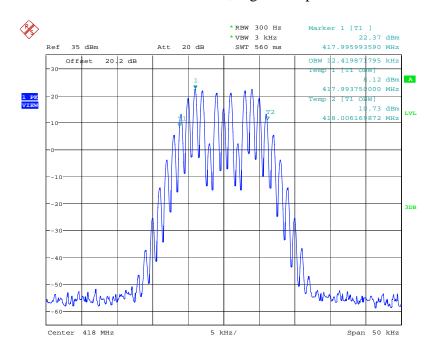Date: 7.MAR.2018  10:20:38

## 418 MHz, Signal Output



Date: 7.MAR.2018  14:03:54
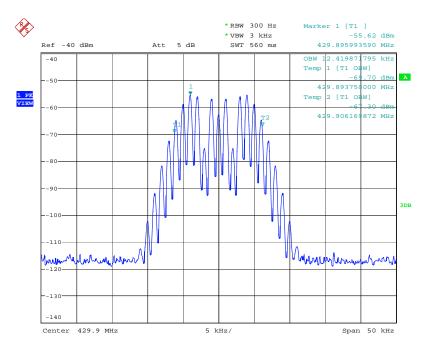
## 418 MHz, Signal Input_3dB
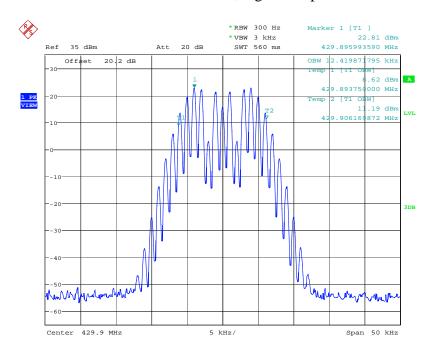


Date: 7.MAR.2018  10:22:21

## 418 MHz, Signal Output



Date: 7.MAR.2018  14:05:02

## 429.9 MHz, Signal Input_0.2dB below

```
                                          *RBW  300 Hz      Marker 1 [T1 ]
                                          *VBW  3 kHz                  -55.62 dBm
      Ref  -40 dBm           Att   5 dB    SWT  560 ms       429.895993590 MHz
                                                         OBW 12.419871795 kHz
        -40                                              Temp 1 [T1 OBW]
                                                                    -69.70 dBm    A
        -50                                               429.893750000 MHz
                                                         Temp 2 [T1 OBW]
        -60                                                         -67.30 dBm
                                                          429.906169872 MHz
        -70
                                                                              3DB
        -80

        -90

       -100

       -110

       -120

       -130

       -140
      Center  429.9 MHz             5 kHz/              Span  50 kHz
```
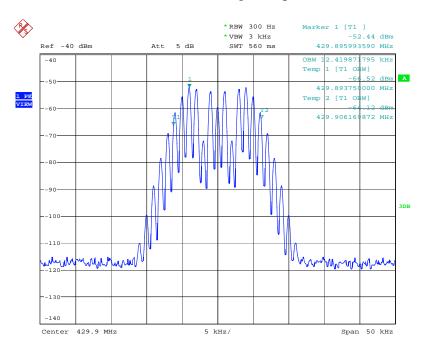
Date: 7.MAR.2018  10:24:39

## 429.9 MHz, Signal Output

```
                                          *RBW  300 Hz      Marker 1 [T1 ]
                                          *VBW  3 kHz                   22.81 dBm
      Ref   35 dBm           Att  20 dB    SWT  560 ms       429.895993590 MHz
         Offset   20.2 dB                                 OBW 12.419871795 kHz
         30                                               Temp 1 [T1 OBW]
                                                                      8.62 dBm    A
         20                                                429.893750000 MHz
                                                         Temp 2 [T1 OBW]
         10                                                         11.19 dBm   LVL
                                                          429.906169872 MHz
          0

        -10

        -20
                                                                              3DB
        -30

        -40

        -50

        -60
      Center  429.9 MHz             5 kHz/              Span  50 kHz
```
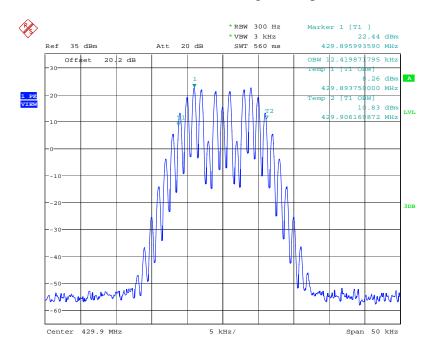
Date: 7.MAR.2018  14:07:27

## 429.9 MHz, Signal Input_3dB

```
                                    *RBW 300 Hz        Marker 1 [T1 ]
                                    *VBW 3 kHz                    -52.44 dBm
     Ref -40 dBm         Att   5 dB  SWT 560 ms        429.895993590 MHz
     -40                                           OBW 12.419871795 kHz
                                                   Temp 1 [T1 OBW]           A
     -50                              1                          -66.52 dBm
                                                       429.893750000 MHz
1 PK                                               Temp 2 [T1 OBW]
VIEW -60                                                        -64.12 dBm
                                 T1      T2            429.906169872 MHz
     -70
     -80
     -90                                                                3DB
     -100
     -110
     -120
     -130
     -140
     Center  429.9 MHz              5 kHz/               Span  50 kHz
```

Date: 7.MAR.2018  10:26:18

## 429.9 MHz, Signal Output

```
                                    *RBW 300 Hz        Marker 1 [T1 ]
                                    *VBW 3 kHz                    22.44 dBm
     Ref  35 dBm         Att  20 dB  SWT 560 ms        429.895993590 MHz
          Offset  20.2 dB                          OBW 12.419871795 kHz
     30                                            Temp 1 [T1 OBW]           A
                                    1                            8.26 dBm
     20                                                429.893750000 MHz
1 PK                                               Temp 2 [T1 OBW]
VIEW 10                          T1      T2                     10.83 dBm  LVL
                                                       429.906169872 MHz
     0
     -10
     -20
     -30                                                                3DB
     -40
     -50
     -60
     Center  429.9 MHz              5 kHz/               Span  50 kHz
```

Date: 7.MAR.2018  14:08:27

## 450.5 MHz, Signal Input_0.2dB below



Date: 7.MAR.2018  10:34:07

## 450.5 MHz, Signal Output



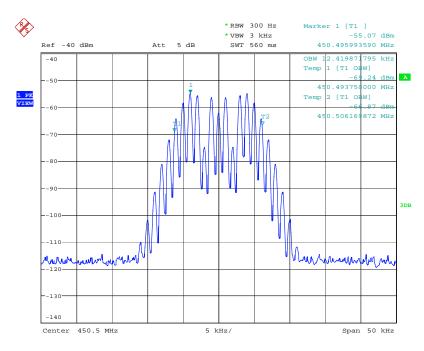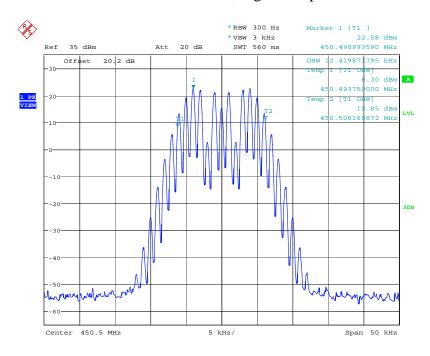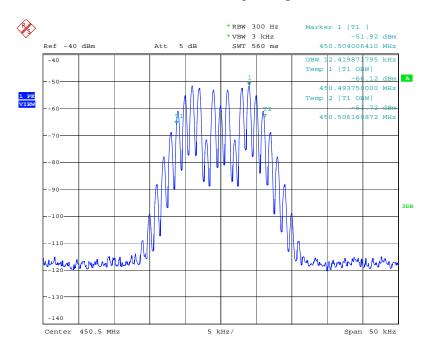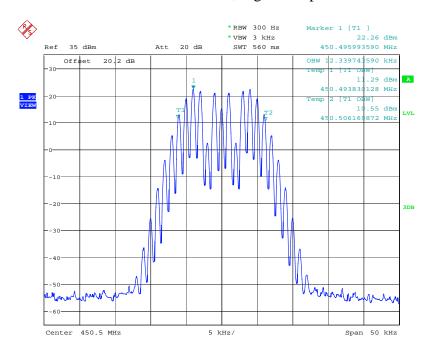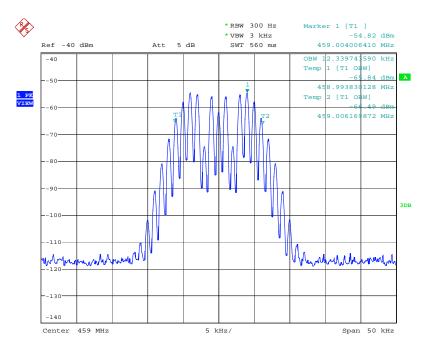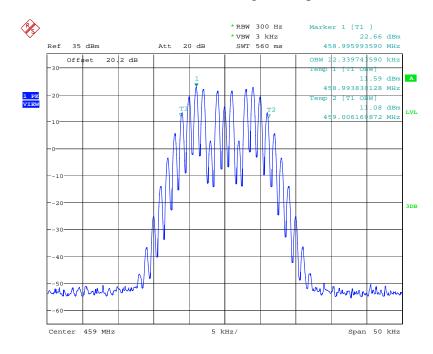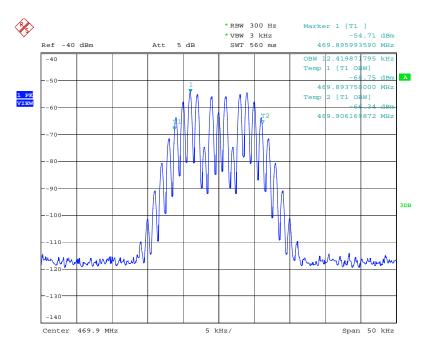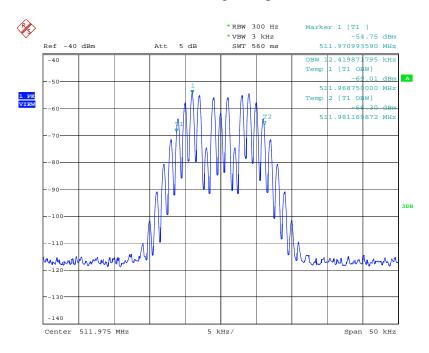Date: 7.MAR.2018  14:11:24

## 450.5 MHz, Signal Input_3dB

```
                                    * RBW  300 Hz      Marker 1 [T1 ]
                                    * VBW  3 kHz              -51.92 dBm
     Ref -40 dBm        Att  5 dB     SWT 560 ms       450.504006410 MHz

     -40                                             OBW 12.419871795 kHz
                                                     Temp 1 [T1 OBW]
                                                              -66.12 dBm
     -50                                             450.493750000 MHz
                                                     Temp 2 [T1 OBW]
                                                              -63.72 dBm
     -60                                             450.506169872 MHz

1 PK
VIEW
     -70

     -80                                                           3DB

     -90

     -100

     -110

     -120

     -130

     -140
     Center 450.5 MHz          5 kHz/            Span 50 kHz
```

Date: 7.MAR.2018  10:35:42

## 450.5 MHz, Signal Output

```
                                    * RBW  300 Hz      Marker 1 [T1 ]
                                    * VBW  3 kHz               22.26 dBm
     Ref  35 dBm        Att  20 dB    SWT 560 ms       450.495993590 MHz

        Offset  20.2 dB                              OBW 12.339743590 kHz
     30                                              Temp 1 [T1 OBW]
                                                              11.29 dBm
     20                                              450.493830128 MHz
                                                     Temp 2 [T1 OBW]
                                                              10.55 dBm
     10                                              450.506169872 MHz

1 PK
VIEW
     0

     -10

     -20                                                          3DB

     -30

     -40

     -50

     -60
     Center 450.5 MHz          5 kHz/            Span 50 kHz
```

Date: 7.MAR.2018  14:14:12

## 459 MHz, Signal Input_0.2dB below



```
* RBW 300 Hz          Marker 1 [T1 ]
* VBW 3 kHz                    -54.82 dBm
Ref -40 dBm        Att  5 dB    SWT 560 ms    459.004006410 MHz
                                         OBW 12.339743590 kHz
                                         Temp 1 [T1 OBW]
                                                  -65.84 dBm
                                         458.993830128 MHz
                                         Temp 2 [T1 OBW]
                                                  -66.49 dBm
                                         459.006169872 MHz
1 PK
VIEW
                                                              3DB

Center  459 MHz              5 kHz/                Span  50 kHz
```
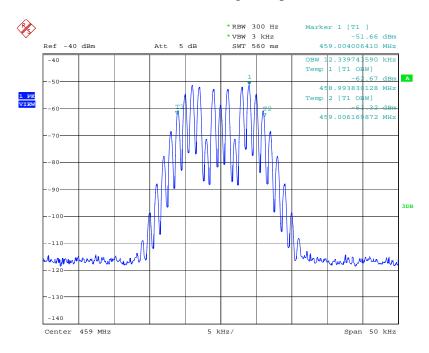
Date: 7.MAR.2018  10:37:46

## 459 MHz, Signal Output



```
* RBW 300 Hz          Marker 1 [T1 ]
* VBW 3 kHz                     22.66 dBm
Ref  35 dBm        Att 20 dB    SWT 560 ms    458.995993590 MHz
    Offset  20.2 dB                      OBW 12.339743590 kHz
                                         Temp 1 [T1 OBW]
                                                   11.59 dBm
                                         458.993830128 MHz
                                         Temp 2 [T1 OBW]
                                                   11.08 dBm
                                         459.006169872 MHz
1 PK
VIEW                                                          LVL
                                                              3DB

Center  459 MHz              5 kHz/                Span  50 kHz
```
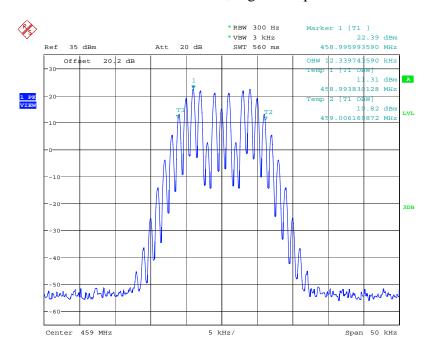
Date: 7.MAR.2018  14:17:23

## 459 MHz, Signal Input_3dB



```
* RBW  300 Hz          Marker 1 [T1 ]
* VBW  3 kHz                    -51.66 dBm
Ref -40 dBm      Att  5 dB    SWT 560 ms       459.004006410 MHz

                                          OBW 12.339743590 kHz
                                          Temp 1 [T1 OBW]
                                                  -62.67 dBm
                                          458.993830128 MHz
                                          Temp 2 [T1 OBW]
                                                  -63.32 dBm
                                          459.006169872 MHz
```

Date: 7.MAR.2018  10:39:53

## 459 MHz, Signal Output



```
* RBW  300 Hz          Marker 1 [T1 ]
* VBW  3 kHz                    22.39 dBm
Ref  35 dBm      Att  20 dB   SWT 560 ms       458.995993590 MHz

Offset  20.2 dB                          OBW 12.339743590 kHz
                                          Temp 1 [T1 OBW]
                                                  11.31 dBm
                                          458.993830128 MHz
                                          Temp 2 [T1 OBW]
                                                  10.82 dBm
                                          459.006169872 MHz
```
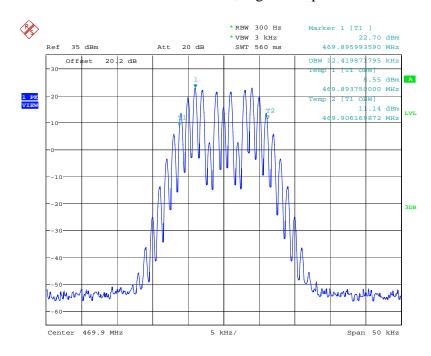
Date: 7.MAR.2018  14:18:48

## 469.9 MHz, Signal Input_0.2dB below

```
                                    * RBW  300 Hz      Marker 1 [T1 ]
                                    * VBW  3 kHz                   -54.71 dBm
 Ref  -40 dBm        Att   5 dB       SWT  560 ms         469.895993590 MHz
                                                     OBW 12.419871795 kHz
   -40                                               Temp 1 [T1 OBW]
                                                                 -68.75 dBm       A
   -50                                                   469.893750000 MHz
                          1                          Temp 2 [T1 OBW]
   -60                                                           -66.34 dBm
                                          T2               469.906169872 MHz
   -70       T1

   -80

   -90                                                                         3DB

  -100

  -110

  -120

  -130

  -140

 Center  469.9 MHz            5 kHz/                        Span  50 kHz
```
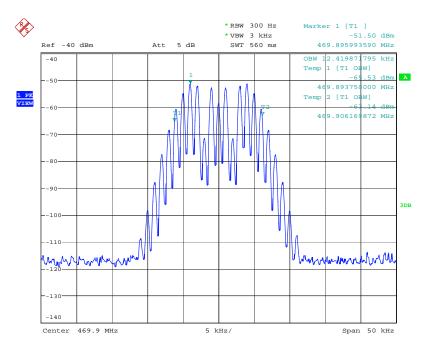
Date: 7.MAR.2018  10:41:50

## 469.9 MHz, Signal Output

```
                                    * RBW  300 Hz      Marker 1 [T1 ]
                                    * VBW  3 kHz                    22.70 dBm
 Ref   35 dBm        Att  20 dB       SWT  560 ms         469.895993590 MHz
        Offset   20.2 dB                              OBW 12.419871795 kHz
   30                                                Temp 1 [T1 OBW]
                                                                   8.55 dBm       A
   20                     1                              469.893750000 MHz
                                                     Temp 2 [T1 OBW]
   10       T1                            T2                      11.14 dBm      LVL
                                                          469.906169872 MHz
    0

  -10

  -20                                                                         3DB

  -30

  -40

  -50

  -60

 Center  469.9 MHz            5 kHz/                        Span  50 kHz
```
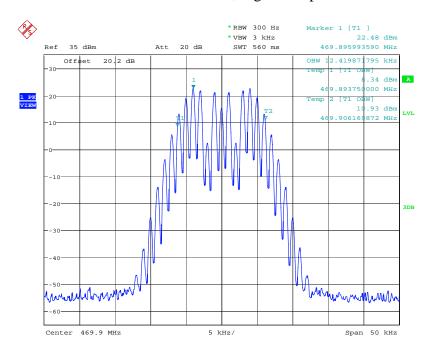
Date: 7.MAR.2018  14:20:47

## 469.9 MHz, Signal Input_3dB



Date: 7.MAR.2018  10:43:25

## 469.9 MHz, Signal Output
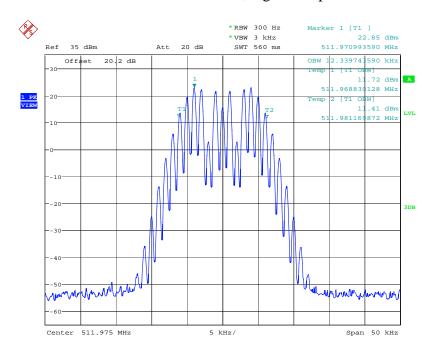


Date: 7.MAR.2018  14:23:03
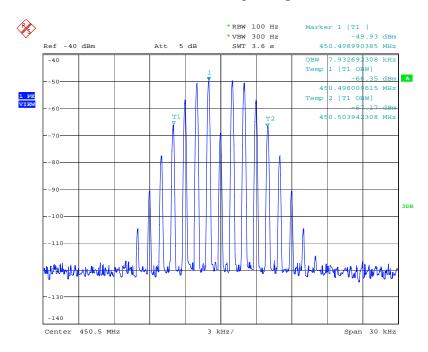
## 511.975 MHz, Signal Input_0.2dB below
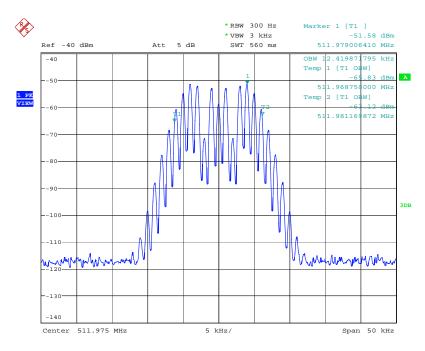


Date: 7.MAR.2018  10:45:52

## 511.975 MHz, Signal Output
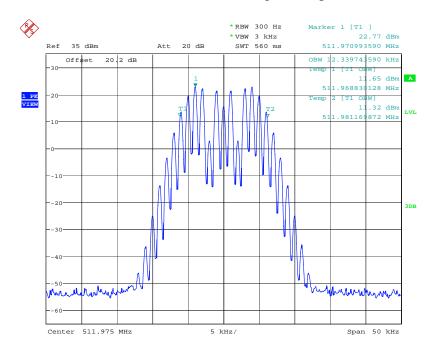


Date: 7.MAR.2018  14:29:13

## 511.975 MHz, Signal Input_3dB



Date: 7.MAR.2018  10:47:21

## 511.975 MHz, Signal Output
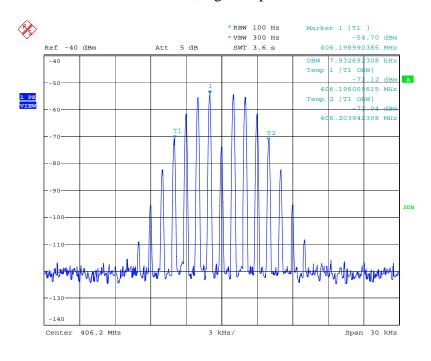


Date: 7.MAR.2018  14:28:01
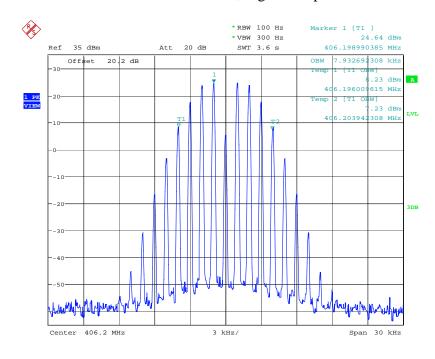
## EXHIBIT 2.    OBW ANALOG 12.5KHZ

### 406.2 MHz, Signal Input_0.2dB below
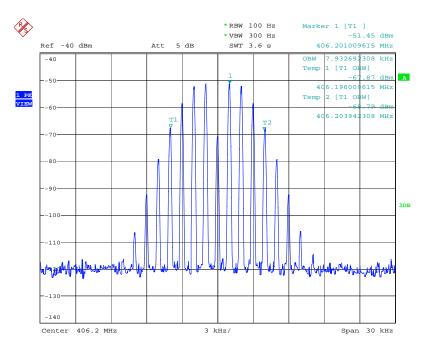


Date: 7.MAR.2018  10:56:36

### 406.2 MHz, Signal Output
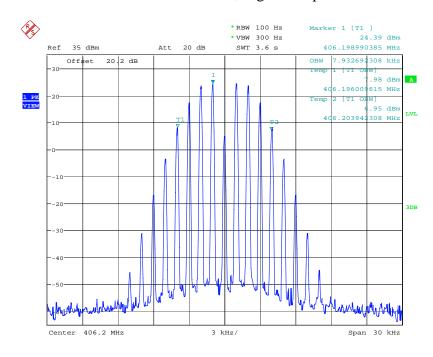

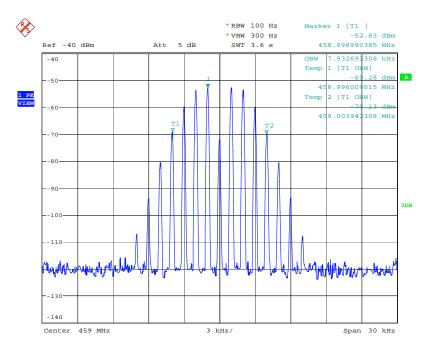
Date: 7.MAR.2018  14:38:07

## 406.2 MHz, Signal Input_3dB
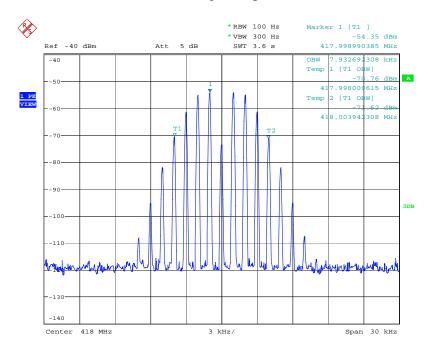


Date: 7.MAR.2018  10:58:36

## 406.2 MHz, Signal Output
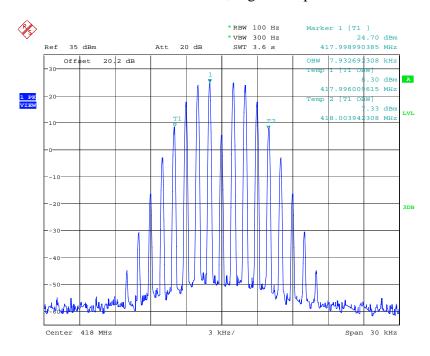


Date: 7.MAR.2018  14:39:49

## 418 MHz, Signal Input_0.2dB below
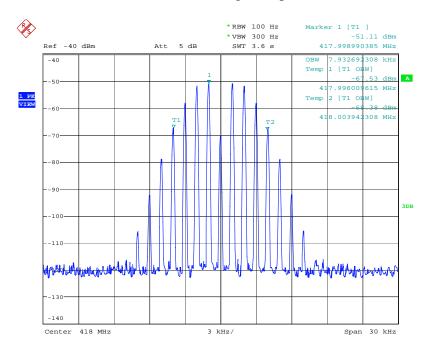


Date: 7.MAR.2018  11:02:33

## 418 MHz, Signal Output
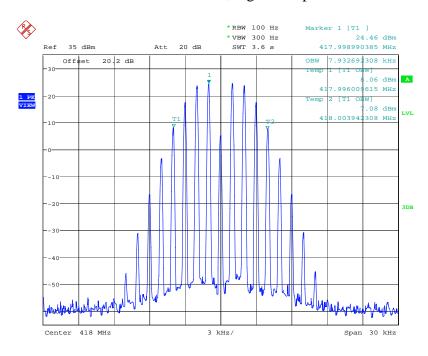


Date: 7.MAR.2018  14:42:23

## 418 MHz, Signal Input_3dB
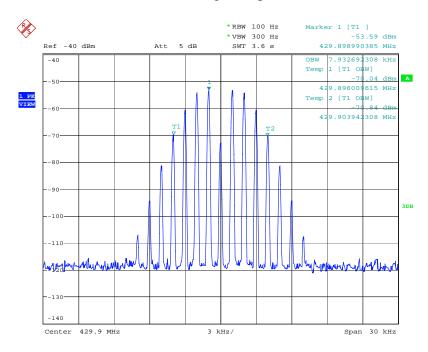


Date: 7.MAR.2018  11:03:54

## 418 MHz, Signal Output
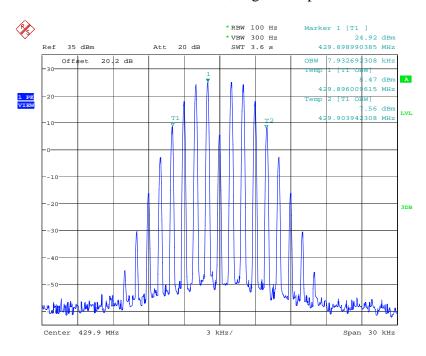


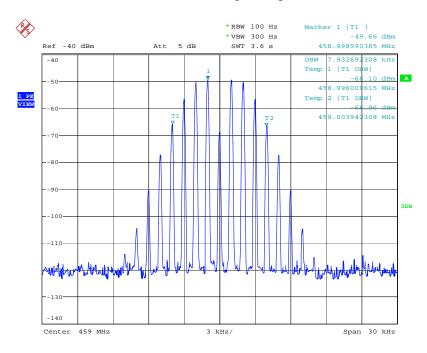Date: 7.MAR.2018  14:44:04

## 429.9 MHz, Signal Input_0.2dB below
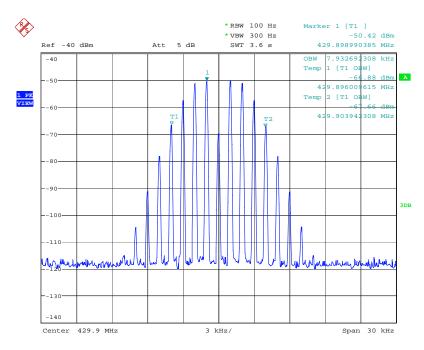


Date: 7.MAR.2018  11:27:31

## 429.9 MHz, Signal Output
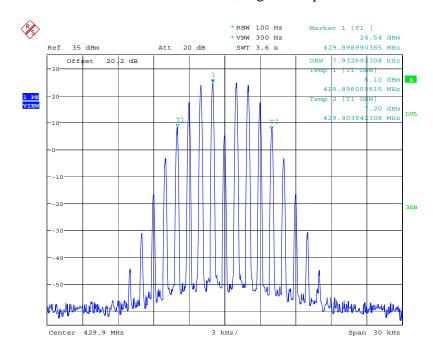


Date: 7.MAR.2018  14:45:51

## 429.9 MHz, Signal Input_3dB
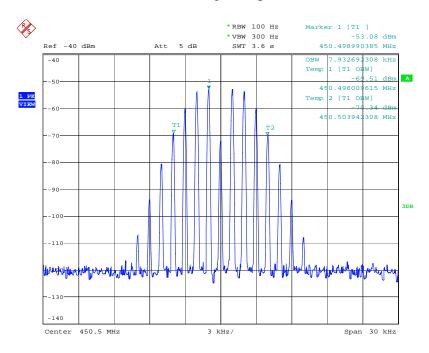


Date: 7.MAR.2018  11:34:38

## 429.9 MHz, Signal Output
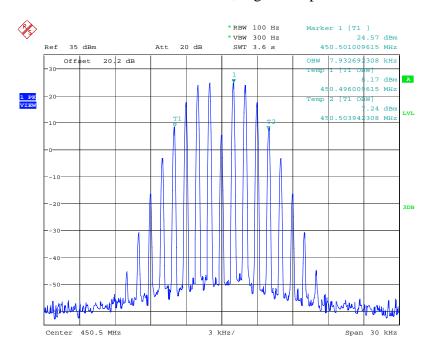


Date: 7.MAR.2018  14:47:00

## 450.5 MHz, Signal Input_0.2dB below



Date: 7.MAR.2018  11:36:33

## 450.5 MHz, Signal Output
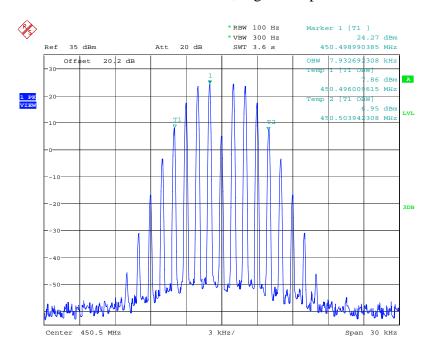


Date: 7.MAR.2018  14:48:57

## 450.5 MHz, Signal Input_3dB

```
                                    *RBW 100 Hz     Marker 1 [T1 ]
                                    *VBW 300 Hz              -49.93 dBm
     Ref -40 dBm        Att  5 dB    SWT 3.6 s      450.498990385 MHz
                                                 OBW  7.932692308 kHz
       -40                                       Temp 1 [T1 OBW]
                                                          -66.35 dBm
       -50                                       450.496009615 MHz
                                                 Temp 2 [T1 OBW]
                                                          -67.17 dBm
       -60                                       450.503942308 MHz
       -70
       -80
       -90
      -100                                                       3DB
      -110
      -120
      -130
      -140
     Center 450.5 MHz           3 kHz/           Span 30 kHz
```

Date: 7.MAR.2018  11:37:45

## 450.5 MHz, Signal Output

```
                                    *RBW 100 Hz     Marker 1 [T1 ]
                                    *VBW 300 Hz               24.27 dBm
     Ref  35 dBm        Att  20 dB   SWT 3.6 s      450.498990385 MHz
         Offset  20.2 dB                          OBW  7.932692308 kHz
        30                                        Temp 1 [T1 OBW]
                                                           7.86 dBm
        20                                        450.496009615 MHz
                                                 Temp 2 [T1 OBW]
        10                                                 6.95 dBm    LVL
                                                 450.503942308 MHz
         0
       -10
       -20                                                       3DB
       -30
       -40
       -50
     Center 450.5 MHz           3 kHz/           Span 30 kHz
```
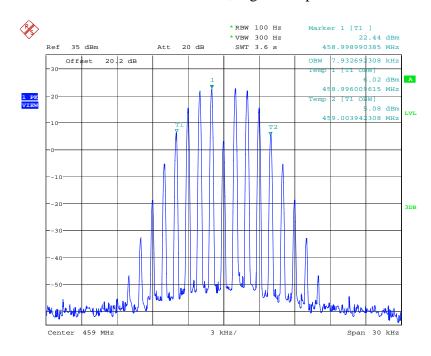
Date: 7.MAR.2018  14:50:13

## 459 MHz, Signal Input_0.2dB below



Date: 7.MAR.2018  11:39:43

## 459 MHz, Signal Output
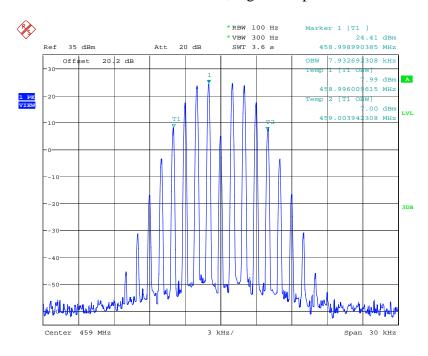


Date: 7.MAR.2018  14:53:17

## 459 MHz, Signal Input_3dB
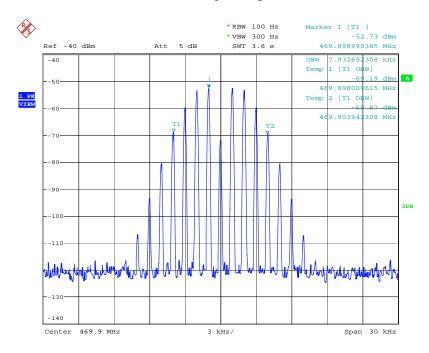


Date: 7.MAR.2018  11:40:58

## 459 MHz, Signal Output
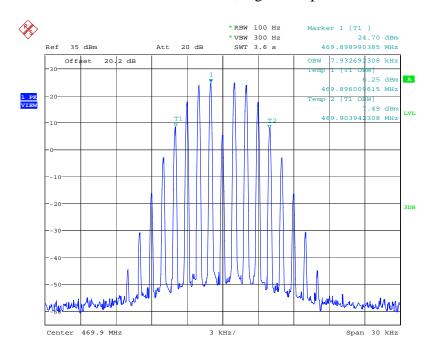


Date: 7.MAR.2018  14:51:59
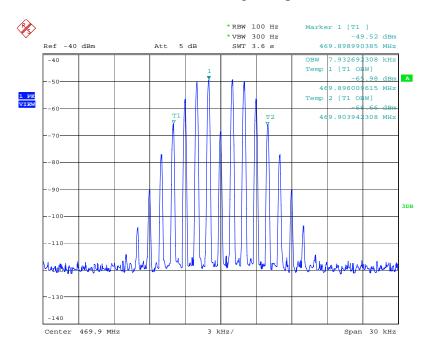
## 469.9 MHz, Signal Input_0.2dB below



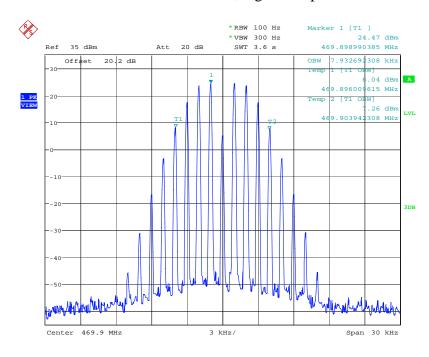Date: 7.MAR.2018  11:42:34

## 469.9 MHz, Signal Output



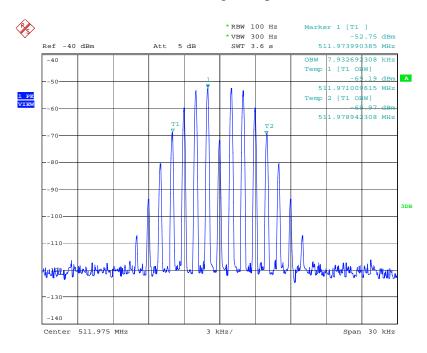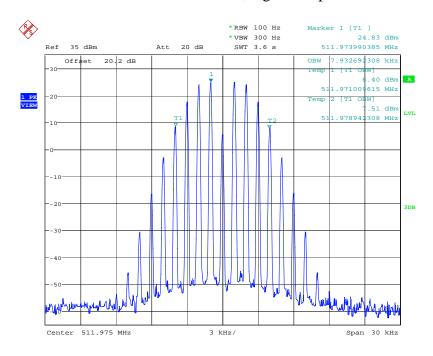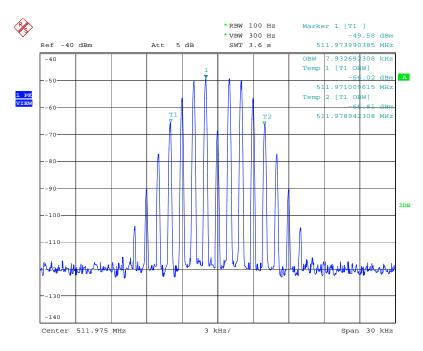Date: 7.MAR.2018  14:55:39

## 469.9 MHz, Signal Input_3dB



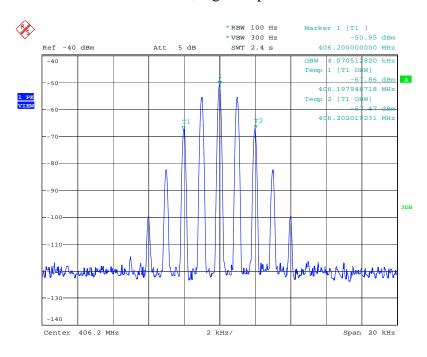Date: 7.MAR.2018  11:45:21
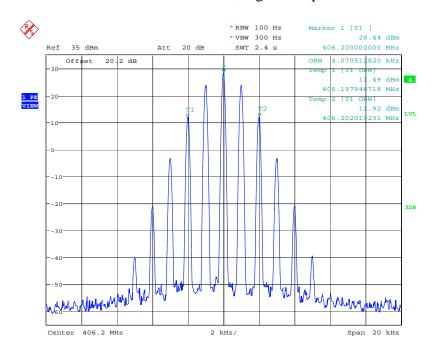
## 469.9 MHz, Signal Output



Date: 7.MAR.2018  15:01:32

## 511.975 MHz, Signal Input_0.2dB below



Date: 7.MAR.2018   11:47:23

## 511.975 MHz, Signal Output
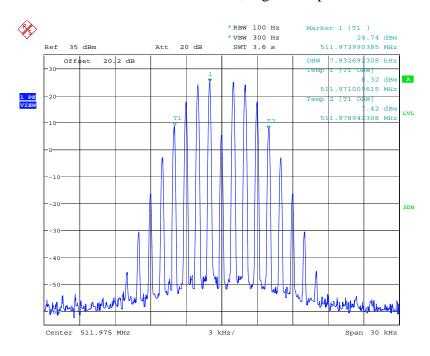


Date: 7.MAR.2018   15:04:48

## 511.975 MHz, Signal Input_3dB

```
                                          *RBW 100 Hz      Marker 1 [T1 ]
                                          *VBW 300 Hz              -49.58 dBm
     Ref  -40 dBm          Att   5 dB      SWT 3.6 s        511.973990385 MHz
                                                    OBW  7.932692308 kHz
       -40                                          Temp 1 [T1 OBW]
                                                                  -66.02 dBm     A
       -50                         1                       511.971009615 MHz
                                                    Temp 2 [T1 OBW]
  1 PK                                                             -66.81 dBm
  VIEW -60                                                 511.978942308 MHz
                               T1                T2
       -70
       -80
       -90
                                                                               3DB
      -100
      -110
      -120
      -130
      -140
     Center 511.975 MHz            3 kHz/              Span  30 kHz
```

Date: 7.MAR.2018  11:48:59

## 511.975 MHz, Signal Output

```
                                          *RBW 100 Hz      Marker 1 [T1 ]
                                          *VBW 300 Hz               24.74 dBm
     Ref   35 dBm          Att  20 dB      SWT 3.6 s        511.973990385 MHz
         Offset   20.2 dB                           OBW  7.932692308 kHz
        30                                          Temp 1 [T1 OBW]
                                   1                                8.32 dBm     A
        20                                                 511.971009615 MHz
                                                    Temp 2 [T1 OBW]
  1 PK                                                              7.42 dBm    LVL
  VIEW  10                      T1                T2        511.978942308 MHz
         0
       -10
       -20
       -30                                                                     3DB
       -40
       -50
       -60
     Center 511.975 MHz            3 kHz/              Span  30 kHz
```

Date: 7.MAR.2018  15:03:17

## EXHIBIT 3.   OBW ANALOG 6.25KHZ

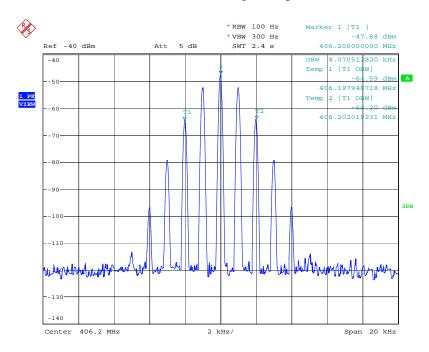### 406.2 MHz, Signal Input_0.2dB below



Date: 7.MAR.2018  12:30:25

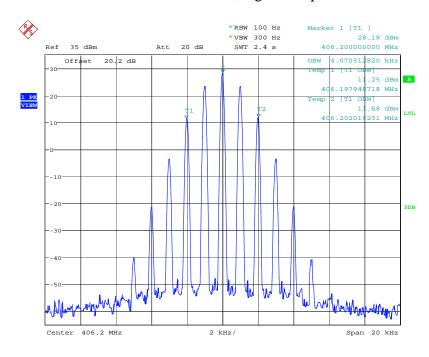### 406.2 MHz, Signal Output



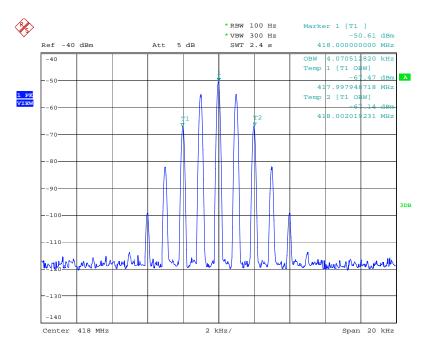Date: 7.MAR.2018  15:07:32

## 406.2 MHz, Signal Input_3dB

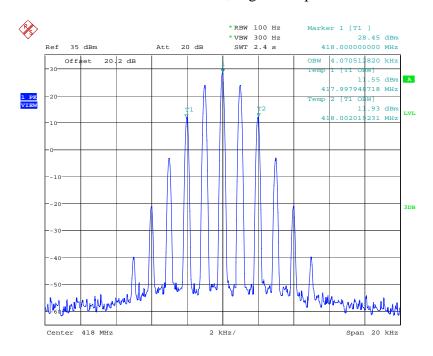

Date: 7.MAR.2018  12:35:42

## 406.2 MHz, Signal Output



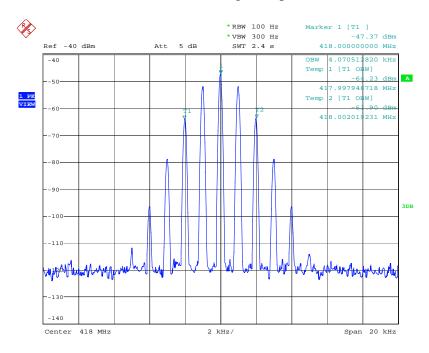Date: 7.MAR.2018  15:08:22

## 418 MHz, Signal Input_0.2dB below

```
                                        *RBW  100 Hz      Marker 1 [T1 ]
                                        *VBW  300 Hz              -50.61 dBm
        Ref  -40 dBm        Att  5 dB    SWT  2.4 s        418.000000000 MHz
                                                    OBW  4.070512820 kHz
        -40                                         Temp 1 [T1 OBW]
                                                              -67.47 dBm
        -50                                         417.997948718 MHz
                                                    Temp 2 [T1 OBW]
        -60                                                 -67.14 dBm
                                                    418.002019231 MHz
        -70             T1              T2
        -80
        -90
        -100                                                        3DB
        -110
        -120
        -130
        -140
        Center  418 MHz          2 kHz/              Span  20 kHz
```
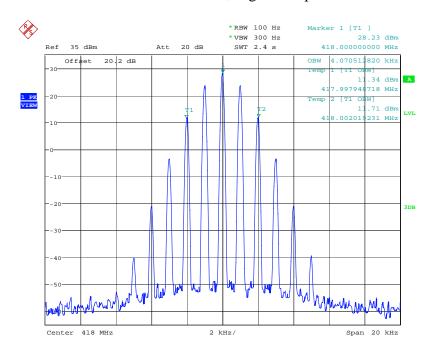
Date: 7.MAR.2018  12:46:08

## 418 MHz, Signal Output

```
                                        *RBW  100 Hz      Marker 1 [T1 ]
                                        *VBW  300 Hz               28.45 dBm
        Ref   35 dBm        Att  20 dB   SWT  2.4 s        418.000000000 MHz
            Offset   20.2 dB                         OBW  4.070512820 kHz
        30                                          Temp 1 [T1 OBW]
                                                              11.55 dBm
        20                                          417.997948718 MHz
                                                    Temp 2 [T1 OBW]
        10             T1              T2                    11.93 dBm   LVL
        0                                           418.002019231 MHz
        -10
        -20                                                         3DB
        -30
        -40
        -50
        -60
        Center  418 MHz          2 kHz/              Span  20 kHz
```

Date: 7.MAR.2018  15:10:04

## 418 MHz, Signal Input_3dB
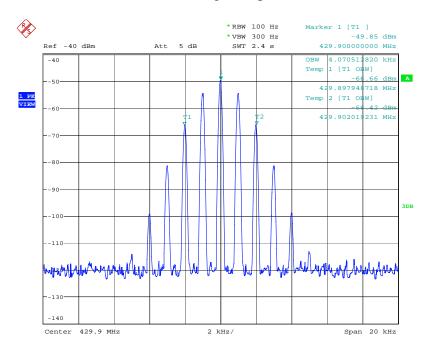


Date: 7.MAR.2018  12:47:47

## 418 MHz, Signal Output
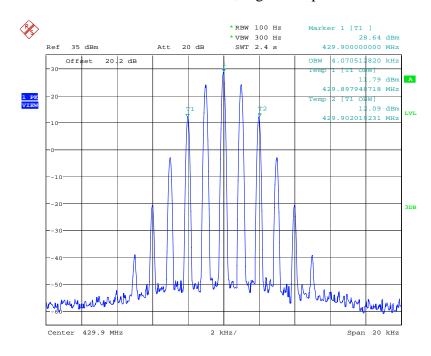


Date: 7.MAR.2018  15:10:57

## 429.9 MHz, Signal Input_0.2dB below
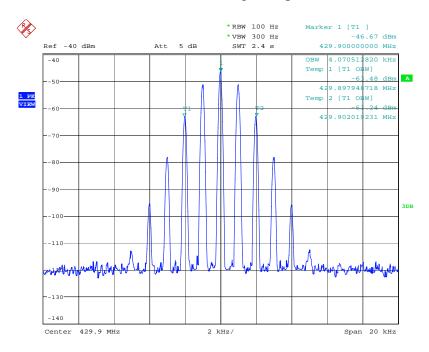


Date: 7.MAR.2018  12:49:34

## 429.9 MHz, Signal Output
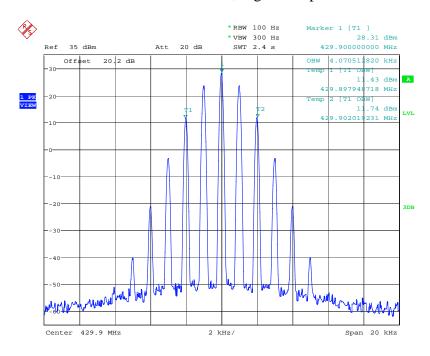

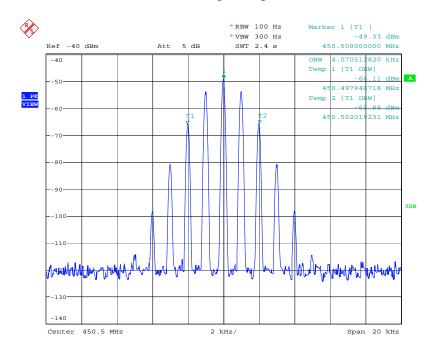
Date: 7.MAR.2018  15:12:32

## 429.9 MHz, Signal Input_3dB



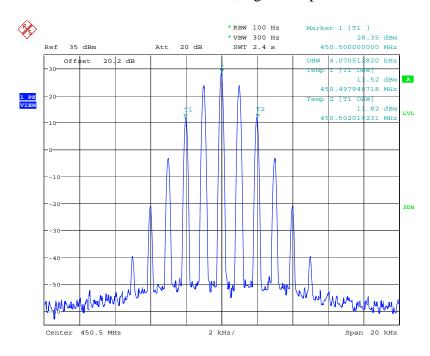Date: 7.MAR.2018  12:50:56

## 429.9 MHz, Signal Output



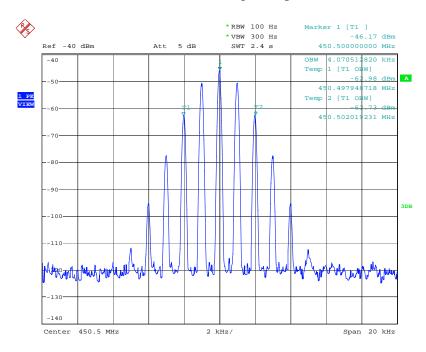Date: 7.MAR.2018  15:13:39

## 450.5 MHz, Signal Input_0.2dB below
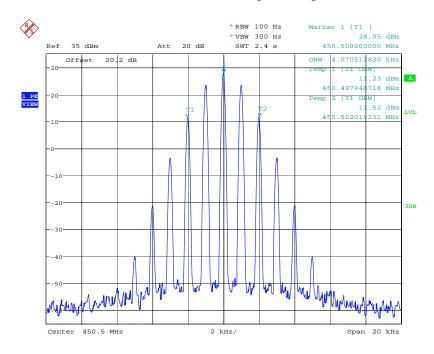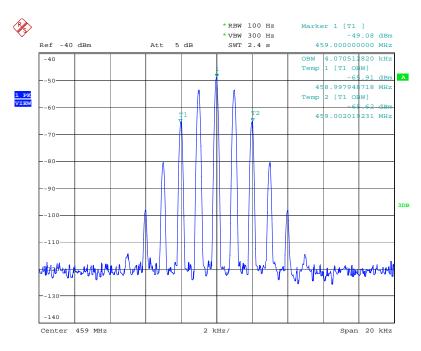


Date: 7.MAR.2018  12:52:37

## 450.5 MHz, Signal Output


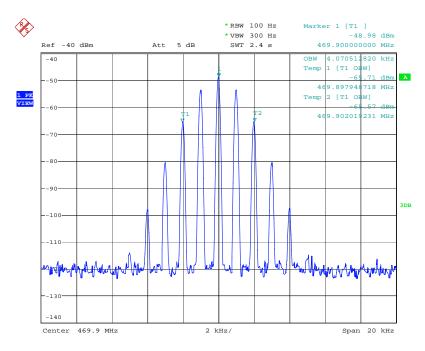
Date: 7.MAR.2018  15:15:11

## 450.5 MHz, Signal Input_3dB



Date: 7.MAR.2018  12:53:31

## 450.5 MHz, Signal Output



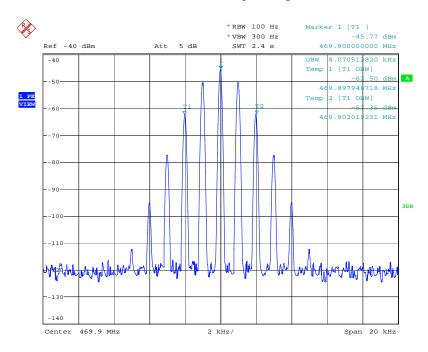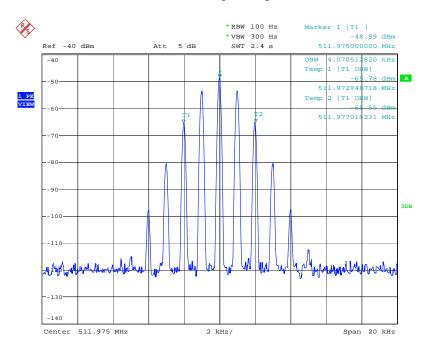Date: 7.MAR.2018  15:16:00

## 459 MHz, Signal Input_0.2dB below

*RBW 100 Hz    Marker 1 [T1 ]
*VBW 300 Hz              -49.08 dBm
Ref -40 dBm        Att  5 dB    SWT 2.4 s    459.000000000 MHz

OBW  4.070512820 kHz
Temp 1 [T1 OBW]
                -65.91 dBm
458.997948718 MHz
Temp 2 [T1 OBW]
                -65.62 dBm
459.002019231 MHz

1 PK VIEW

-40
-50
-60
-70
-80
-90
-100
-110
-130
-140

T1          T2

A
3DB

Center  459 MHz        2 kHz/        Span  20 kHz

Date: 7.MAR.2018  12:55:02

## 459 MHz, Signal Output

*RBW 100 Hz    Marker 1 [T1 ]
*VBW 300 Hz               28.42 dBm
Ref  35 dBm        Att  20 dB    SWT 2.4 s    459.000000000 MHz

Offset   20.2 dB

OBW  4.070512820 kHz
Temp 1 [T1 OBW]
                 11.55 dBm
458.997948718 MHz
Temp 2 [T1 OBW]
                 11.89 dBm
459.002019231 MHz

1 PK VIEW

30
20
10
0
-10
-20
-30
-40
-50
-60

T1          T2

A
LVL
3DB

Center  459 MHz        2 kHz/        Span  20 kHz

Date: 7.MAR.2018  15:17:31

## 459 MHz, Signal Input_3dB

```
                                    *RBW 100 Hz      Marker 1 [T1 ]
                                    *VBW 300 Hz              -45.92 dBm
Ref -40 dBm          Att  5 dB      SWT 2.4 s        459.000000000 MHz
                                                  OBW  4.070512820 kHz
-40                                               Temp 1 [T1 OBW]
                                                          -62.76 dBm
-50                                                 458.997948718 MHz
                                                  Temp 2 [T1 OBW]
-60                      T1            T2                  -62.46 dBm
                                                    459.002019231 MHz
-70

-80

-90

-100

-110

-130

-140
Center  459 MHz                   2 kHz/              Span  20 kHz
```

1 PK VIEW    A    3DB

Date: 7.MAR.2018  12:58:33

## 459 MHz, Signal Output

```
                                    *RBW 100 Hz      Marker 1 [T1 ]
                                    *VBW 300 Hz               28.17 dBm
Ref  35 dBm          Att 20 dB      SWT 2.4 s        459.000000000 MHz
   Offset  20.2 dB                                OBW  4.070512820 kHz
30                                                Temp 1 [T1 OBW]
                                                           11.30 dBm
20                                                  458.997948718 MHz
                         T1            T2          Temp 2 [T1 OBW]
10                                                         11.65 dBm
                                                    459.002019231 MHz
0

-10

-20

-30

-40

-50

Center  459 MHz                   2 kHz/              Span  20 kHz
```

1 PK VIEW    A    LVL    3DB
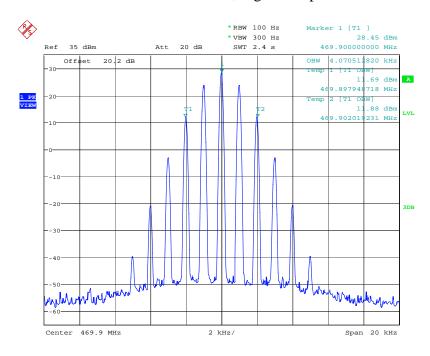
Date: 7.MAR.2018  15:18:25

## 469.9 MHz, Signal Input_0.2dB below

```
                                    *RBW 100 Hz      Marker 1 [T1 ]
                                    *VBW 300 Hz              -48.98 dBm
   Ref -40 dBm         Att  5 dB     SWT 2.4 s        469.900000000 MHz
                                                   OBW  4.070512820 kHz
     -40                                           Temp 1 [T1 OBW]           A
                                                            -65.71 dBm
     -50                                           469.897948718 MHz
                                                   Temp 2 [T1 OBW]
     -60                                                    -65.57 dBm
                                                   469.902019231 MHz
     -70
     -80
     -90
     -100                                                              3DB
     -110
     -120
     -130
     -140
   Center  469.9 MHz              2 kHz/              Span  20 kHz
```

1 PK VIEW

Date: 7.MAR.2018  13:00:17

## 469.9 MHz, Signal Output

```
                                    *RBW 100 Hz      Marker 1 [T1 ]
                                    *VBW 300 Hz               28.45 dBm
   Ref  35 dBm         Att  20 dB    SWT 2.4 s        469.900000000 MHz
                                                   OBW  4.070512820 kHz
        Offset  20.2 dB                            Temp 1 [T1 OBW]           A
     30                                                      11.69 dBm
                                                   469.897948718 MHz
     20                                             Temp 2 [T1 OBW]
                                                            11.88 dBm      LVL
     10                                             469.902019231 MHz
     0
     -10
     -20                                                               3DB
     -30
     -40
     -50
     -60
   Center  469.9 MHz              2 kHz/              Span  20 kHz
```

1 PK VIEW
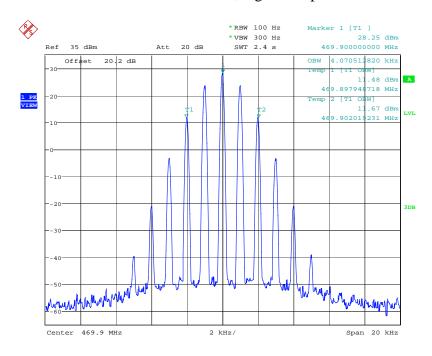
Date: 7.MAR.2018  15:22:57

## 469.9 MHz, Signal Input_3dB

```
                                    *RBW  100 Hz      Marker 1 [T1 ]
                                    *VBW  300 Hz                -45.77 dBm
        Ref -40 dBm        Att  5 dB  SWT 2.4 s       469.900000000 MHz
                                                   OBW  4.070512820 kHz
        -40                                        Temp 1 [T1 OBW]
                                                             -62.50 dBm
        -50                                        469.897948718 MHz
                                                   Temp 2 [T1 OBW]
1 PK                                                          -62.35 dBm
VIEW    -60        T1                T2             469.902019231 MHz

        -70

        -80

        -90

        -100                                                       3DB

        -110

        -120

        -130

        -140
        Center  469.9 MHz        2 kHz/           Span  20 kHz
```

Date: 7.MAR.2018  13:01:14

## 469.9 MHz, Signal Output

```
                                    *RBW  100 Hz      Marker 1 [T1 ]
                                    *VBW  300 Hz                28.25 dBm
        Ref  35 dBm        Att 20 dB  SWT 2.4 s       469.900000000 MHz
           Offset  20.2 dB                         OBW  4.070512820 kHz
        30                                         Temp 1 [T1 OBW]
                                                             11.48 dBm
                                                   469.897948718 MHz
        20                                         Temp 2 [T1 OBW]
                                                             11.67 dBm  LVL
1 PK                                               469.902019231 MHz
VIEW    10        T1                T2

        0

        -10

        -20                                                       3DB

        -30

        -40

        -50

        -60
        Center  469.9 MHz        2 kHz/           Span  20 kHz
```

Date: 7.MAR.2018  15:24:22

## 511.975 MHz, Signal Input_0.2dB below



```
                                          *RBW  100 Hz    Marker 1 [T1 ]
                                          *VBW  300 Hz              -48.99 dBm
        Ref  -40 dBm        Att   5 dB     SWT  2.4 s     511.975000000 MHz
                                                   OBW  4.070512820 kHz
        -40                                        Temp 1 [T1 OBW]
                                                              -65.78 dBm    A
        -50                                        511.972948718 MHz
                                                   Temp 2 [T1 OBW]
  1 PK                                                        -65.55 dBm
  VIEW  -60                          T1           T2   511.977019231 MHz

        -70

        -80

        -90

                                                                          3DB
       -100

       -110

       -130

       -140
        Center  511.975 MHz          2 kHz/              Span  20 kHz
```

Date: 7.MAR.2018  13:05:39

## 511.975 MHz, Signal Output



```
                                          *RBW  100 Hz    Marker 1 [T1 ]
                                          *VBW  300 Hz               26.44 dBm
        Ref   35 dBm        Att  20 dB     SWT  2.4 s     511.975000000 MHz
             Offset   20.2 dB                      OBW  4.070512820 kHz
        30                                         Temp 1 [T1 OBW]
                                                               9.62 dBm    A
        20                                         511.972948718 MHz
                                                   Temp 2 [T1 OBW]
  1 PK                                                         9.92 dBm    LVL
  VIEW  10                           T1           T2   511.977019231 MHz

         0

       -10

       -20                                                                3DB

       -30

       -40

       -50

        Center  511.975 MHz          2 kHz/              Span  20 kHz
```

Date: 7.MAR.2018  15:27:25

## 511.975 MHz, Signal Input_3dB



Date: 7.MAR.2018  13:04:25
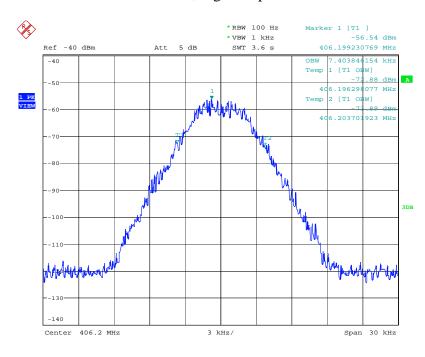
## 511.975 MHz, Signal Output



Date: 7.MAR.2018  15:26:04
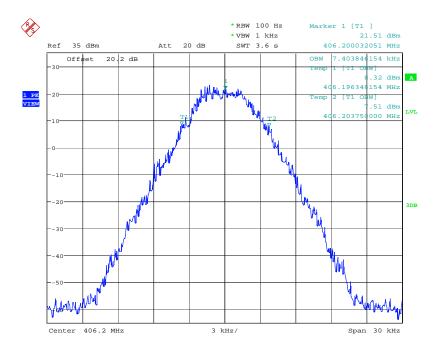
## EXHIBIT 4.    OBW DIGITAL 12.5KHZ

### 406.2 MHz, Signal Input_0.2dB below
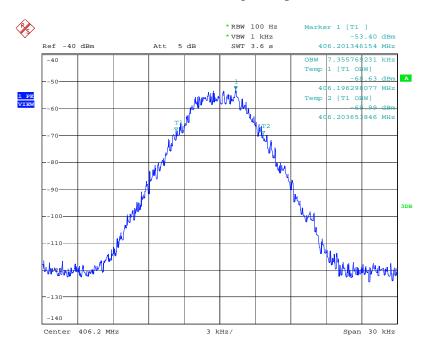


Date: 4.APR.2018  12:05:40

### 406.2 MHz, Signal Output
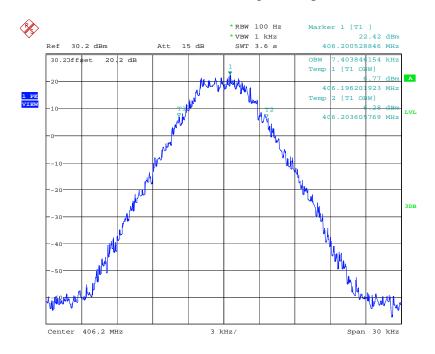


Date: 4.APR.2018  09:58:18

## 406.2 MHz, Signal Input_3dB



```
                                      *RBW  100 Hz      Marker 1 [T1 ]
                                      *VBW  1 kHz                    -53.40 dBm
       Ref  -40 dBm        Att  5 dB   SWT  3.6 s        406.201346154 MHz
                                                    OBW  7.355769231 kHz
         -40                                        Temp 1 [T1 OBW]
                                                                   -68.63 dBm     A
         -50                                            406.196298077 MHz
  1 PK                                               Temp 2 [T1 OBW]
  VIEW    -60                                                       -69.99 dBm
                                                        406.203653846 MHz
         -70
                                                                                 3DB
         -80

         -90

        -100

        -110

        -120

        -130

        -140
       Center  406.2 MHz          3 kHz/              Span  30 kHz
```
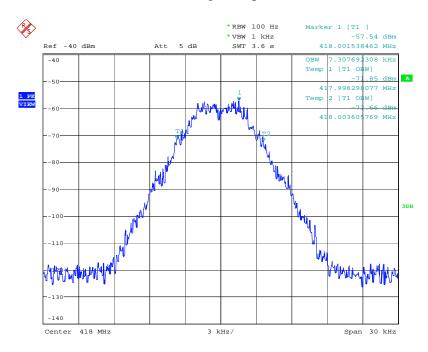
Date: 4.APR.2018  12:06:49

## 406.2 MHz, Signal Output



```
                                      *RBW  100 Hz      Marker 1 [T1 ]
                                      *VBW  1 kHz                    22.42 dBm
       Ref  30.2 dBm       Att  15 dB  SWT  3.6 s        406.200528846 MHz
       30.2 Offset   20.2 dB                         OBW  7.403846154 kHz
                                                    Temp 1 [T1 OBW]
                                                                    6.77 dBm      A
         -20                                            406.196201923 MHz
  1 PK                                               Temp 2 [T1 OBW]
  VIEW   -10                                                         6.28 dBm     LVL
                                                        406.203605769 MHz
          -0

         -10

         -20

         -30                                                                     3DB

         -40

         -50

       Center  406.2 MHz          3 kHz/              Span  30 kHz
```
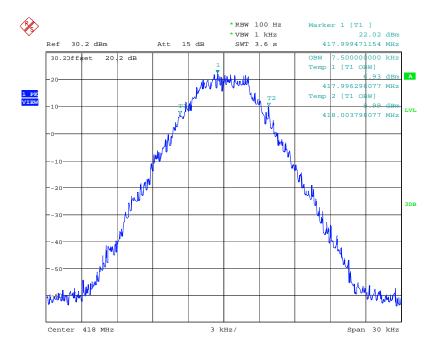
Date: 4.APR.2018  10:11:32

## 418 MHz, Signal Input_0.2dB below



```
                                        *RBW 100 Hz        Marker 1 [T1 ]
                                        *VBW 1 kHz                  -57.54 dBm
        Ref  -40 dBm       Att  5 dB    SWT 3.6 s          418.001538462 MHz
                                                    OBW  7.307692308 kHz
        -40                                         Temp 1 [T1 OBW]
                                                               -71.85 dBm       A
        -50                                         417.996298077 MHz
                                                    Temp 2 [T1 OBW]
  1 PK                                                          -72.66 dBm
  VIEW  -60                                         418.003605769 MHz

        -70         T1                  T2
        -80
        -90
                                                                             3DB
        -100
        -110
        -130
        -140
        Center  418 MHz          3 kHz/              Span  30 kHz
```
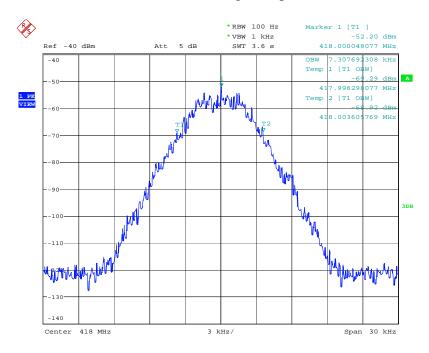
Date: 4.APR.2018  12:03:23

## 418 MHz, Signal Output



```
                                        *RBW 100 Hz        Marker 1 [T1 ]
                                        *VBW 1 kHz                   22.02 dBm
        Ref  30.2 dBm      Att  15 dB   SWT 3.6 s          417.999471154 MHz
        30.2 Offset  20.2 dB                              OBW  7.500000000 kHz
                                              1           Temp 1 [T1 OBW]
                                                                6.93 dBm        A
        -20                                         417.996298077 MHz
                                                    Temp 2 [T1 OBW]
  1 PK  -10         T1                  T2                       6.99 dBm       LVL
  VIEW                                               418.003798077 MHz
        -0
        -10
        -20
                                                                             3DB
        -30
        -40
        -50
        Center  418 MHz          3 kHz/              Span  30 kHz
```
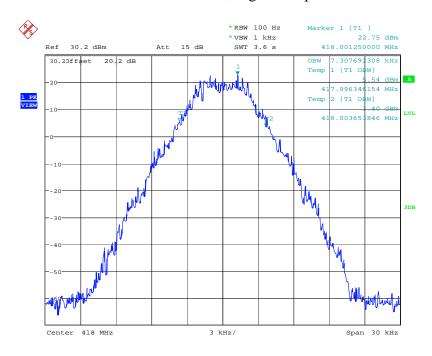
Date: 4.APR.2018  10:20:03
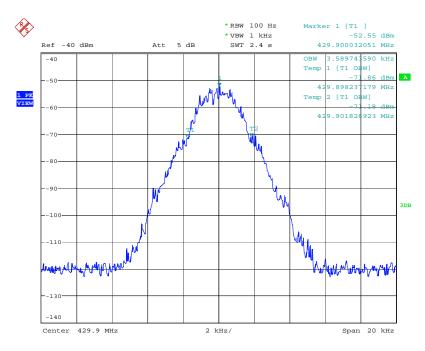
## 418 MHz, Signal Input_3dB
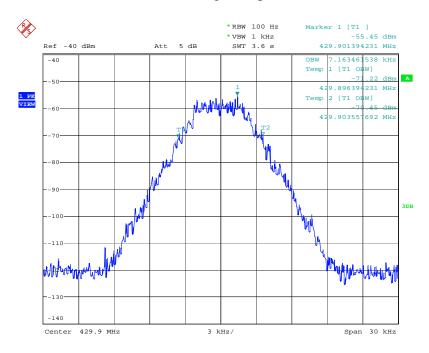


Date: 4.APR.2018  12:04:13

## 418 MHz, Signal Output
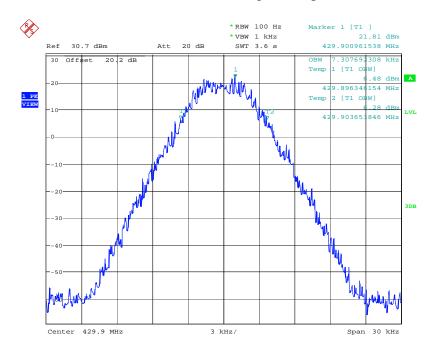


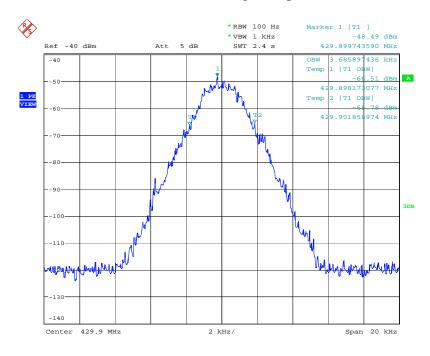Date: 4.APR.2018  10:21:47

## 429.9 MHz, Signal Input_0.2dB below
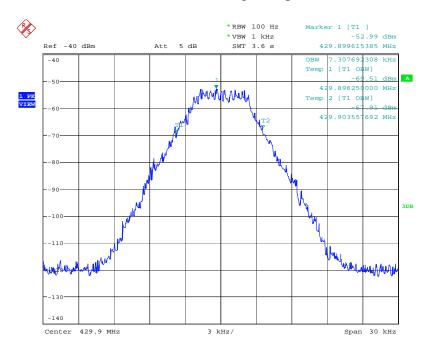


Date: 4.APR.2018  11:59:17
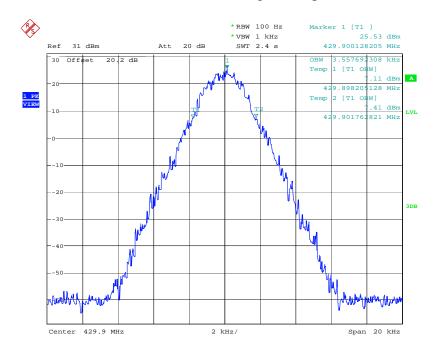
## 429.9 MHz, Signal Output
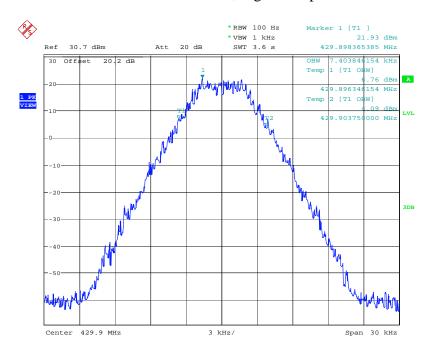


Date: 4.APR.2018  10:30:25

## 429.9 MHz, Signal Input_3dB
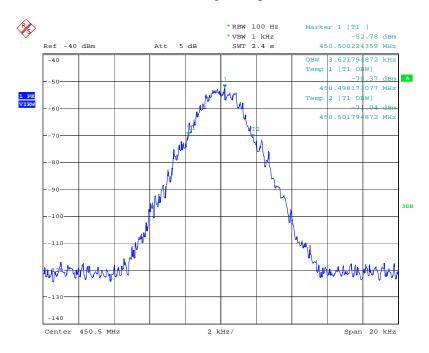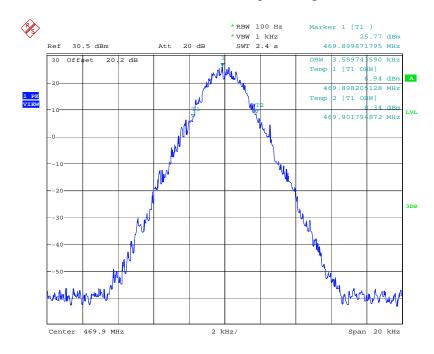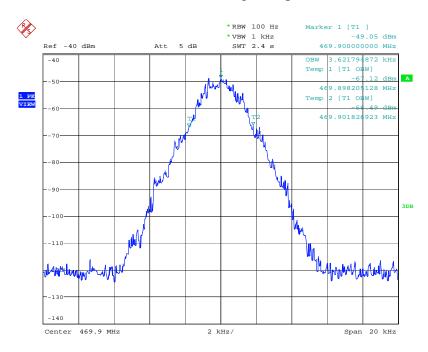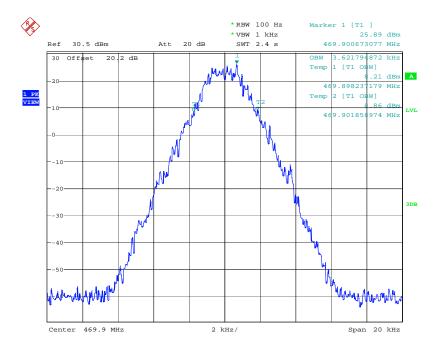
```
                                        *RBW 100 Hz       Marker 1 [T1 ]
                                        *VBW 1 kHz                 -52.99 dBm
       Ref -40 dBm          Att  5 dB    SWT 3.6 s        429.899615385 MHz
        -40                                              OBW  7.307692308 kHz
                                                         Temp 1 [T1 OBW]
        -50                                                        -69.51 dBm
 1 PK                                                     429.896250000 MHz
 VIEW   -60                                              Temp 2 [T1 OBW]
                                                                   -67.91 dBm
        -70                                    T2        429.903557692 MHz

        -80

        -90

       -100                                                          3DB

       -110

       -120

       -130

       -140
       Center  429.9 MHz          3 kHz/              Span  30 kHz
```
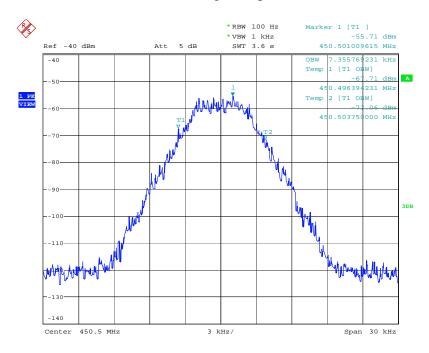
Date: 4.APR.2018  12:01:40

## 429.9 MHz, Signal Output

```
                                        *RBW 100 Hz       Marker 1 [T1 ]
                                        *VBW 1 kHz                  21.93 dBm
       Ref  30.7 dBm         Att 20 dB    SWT 3.6 s       429.898365385 MHz
       30  Offset   20.2 dB                              OBW  7.403846154 kHz
                                                         Temp 1 [T1 OBW]
        20                                                          6.76 dBm
 1 PK                                                     429.896346154 MHz
 VIEW   10                                               Temp 2 [T1 OBW]
                                                                   4.09 dBm    LVL
         0                                                429.903750000 MHz

       -10

       -20

       -30                                                           3DB

       -40

       -50

       Center  429.9 MHz          3 kHz/              Span  30 kHz
```
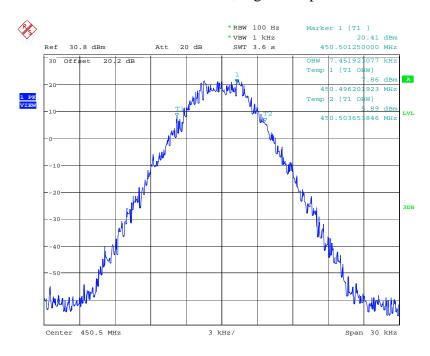
Date: 4.APR.2018  10:32:14

## 450.5 MHz, Signal Input_0.2dB below



```
*RBW 100 Hz          Marker 1 [T1 ]
*VBW 1 kHz                    -55.71 dBm
Ref -40 dBm        Att  5 dB    SWT 3.6 s          450.501009615 MHz
                                          OBW  7.355769231 kHz
                                          Temp 1 [T1 OBW]
                                                     -67.71 dBm
                                               450.496394231 MHz
                                          Temp 2 [T1 OBW]
                                                     -72.06 dBm
                                               450.503750000 MHz

Center  450.5 MHz        3 kHz/              Span  30 kHz
```
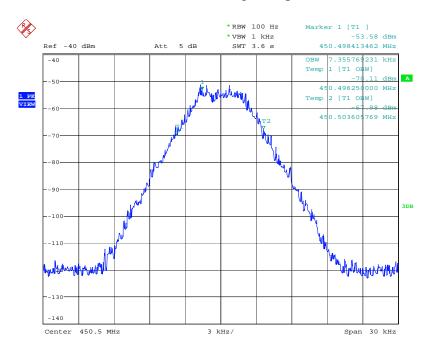
Date: 4.APR.2018  11:56:22

## 450.5 MHz, Signal Output



```
*RBW 100 Hz          Marker 1 [T1 ]
*VBW 1 kHz                    20.41 dBm
Ref  30.8 dBm      Att  20 dB   SWT 3.6 s          450.501250000 MHz
30 Offset  20.2 dB                        OBW  7.451923077 kHz
                                          Temp 1 [T1 OBW]
                                                     7.86 dBm
                                               450.496201923 MHz
                                          Temp 2 [T1 OBW]
                                                     5.89 dBm
                                               450.503653846 MHz

Center  450.5 MHz        3 kHz/              Span  30 kHz
```
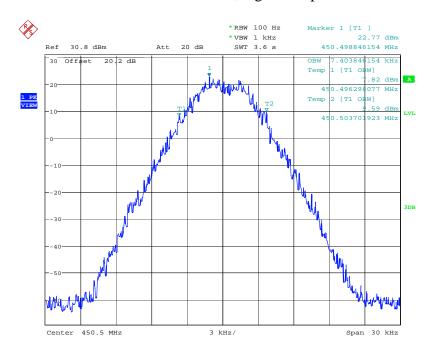
Date: 4.APR.2018  10:40:05

## 450.5 MHz, Signal Input_3dB



```
                                    *RBW  100 Hz      Marker 1 [T1 ]
                                    *VBW  1 kHz                 -53.58 dBm
       Ref  -40 dBm      Att  5 dB   SWT 3.6 s        450.498413462 MHz
       -40                                           OBW  7.355769231 kHz
                                                     Temp 1 [T1 OBW]
       -50                                                    -70.11 dBm
 1 PK                                                450.496250000 MHz
 VIEW  -60                                           Temp 2 [T1 OBW]
                                                             -67.98 dBm
       -70                                           450.503605769 MHz

       -80

       -90                                                              3DB

      -100

      -110

      -130

      -140
       Center 450.5 MHz          3 kHz/          Span  30 kHz
```
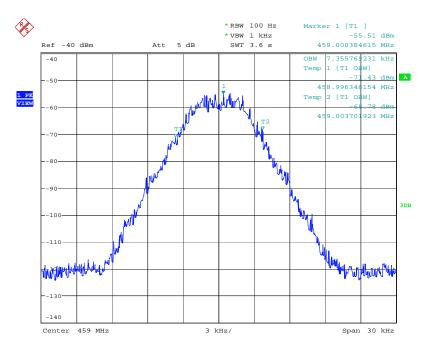
Date: 4.APR.2018  11:57:50

## 450.5 MHz, Signal Output



```
                                    *RBW  100 Hz      Marker 1 [T1 ]
                                    *VBW  1 kHz                  22.77 dBm
       Ref  30.8 dBm     Att  20 dB  SWT 3.6 s        450.498846154 MHz
       30 Offset   20.2 dB                           OBW  7.403846154 kHz
                                                     Temp 1 [T1 OBW]
       -20                                                     7.82 dBm
 1 PK                                                450.496298077 MHz
 VIEW  -10                                           Temp 2 [T1 OBW]
                                                              9.59 dBm   LVL
        0                                            450.503701923 MHz

       -10

       -20

       -30                                                              3DB

       -40

       -50
       Center 450.5 MHz          3 kHz/          Span  30 kHz
```
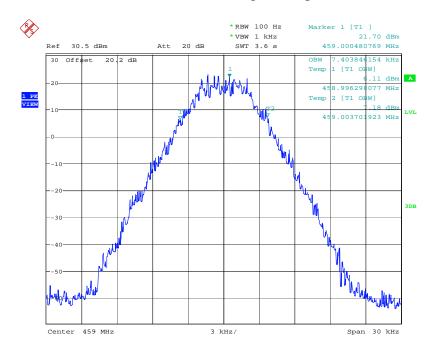
Date: 4.APR.2018  10:41:29

## 459 MHz, Signal Input_0.2dB below
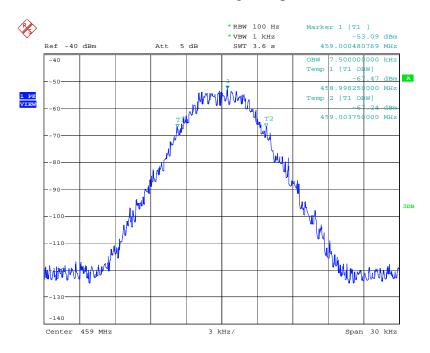


Date: 4.APR.2018  11:53:26

## 459 MHz, Signal Output
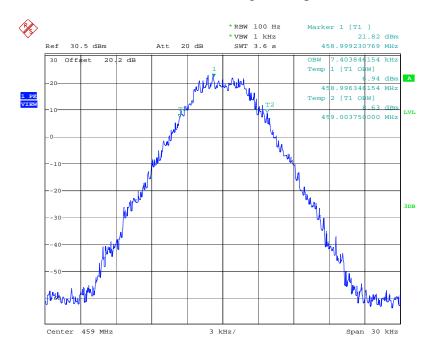


Date: 4.APR.2018  10:49:13

## 459 MHz, Signal Input_3dB
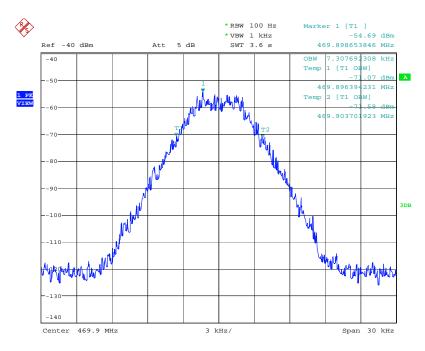


Date: 4.APR.2018  11:54:16

## 459 MHz, Signal Output
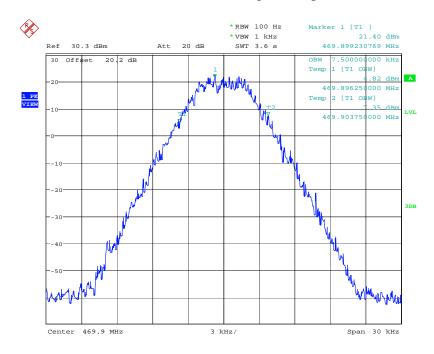


Date: 4.APR.2018  10:51:42

## 469.9 MHz, Signal Input_0.2dB below
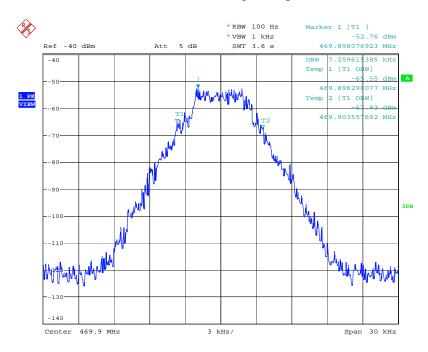


Date: 4.APR.2018  11:51:11

## 469.9 MHz, Signal Output
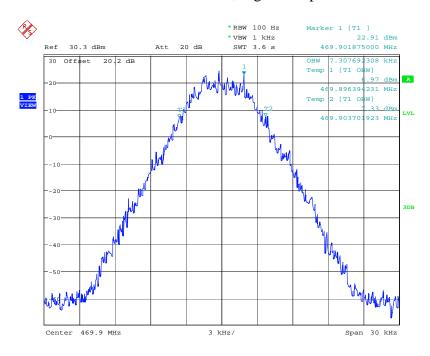


Date: 4.APR.2018  11:02:09

## 469.9 MHz, Signal Input_3dB



```
                                          *RBW 100 Hz        Marker 1 [T1 ]
                                          *VBW 1 kHz                  -52.76 dBm
        Ref -40 dBm          Att  5 dB     SWT 3.6 s         469.898076923 MHz
                                                      OBW  7.259615385 kHz
   -40                                                Temp 1 [T1 OBW]
                                                                   -65.55 dBm     A
   -50                                                       469.896298077 MHz
                                                      Temp 2 [T1 OBW]
                                                                   -67.93 dBm
   -60                                                       469.903557692 MHz
   -70
   -80                                                                      3DB
   -90
  -100
  -110
  -130
  -140
        Center 469.9 MHz             3 kHz/              Span 30 kHz
```
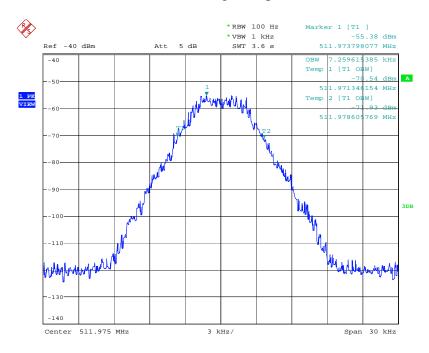
Date: 4.APR.2018  11:52:03


## 469.9 MHz, Signal Output



```
                                          *RBW 100 Hz        Marker 1 [T1 ]
                                          *VBW 1 kHz                   22.91 dBm
        Ref  30.3 dBm         Att  20 dB    SWT 3.6 s        469.901875000 MHz
   30 Offset   20.2 dB                                OBW  7.307692308 kHz
                                                      Temp 1 [T1 OBW]
   -20                                                              6.97 dBm      A
                                                             469.896394231 MHz
   -10                                                Temp 2 [T1 OBW]
                                                                   7.33 dBm     LVL
    0                                                        469.903701923 MHz
  -10
  -20
  -30                                                                      3DB
  -40
  -50
        Center 469.9 MHz             3 kHz/              Span 30 kHz
```
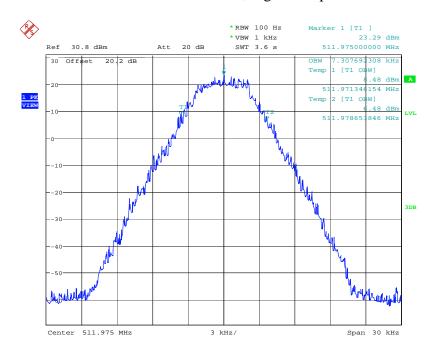
Date: 4.APR.2018  11:03:11

## 511.975 MHz, Signal Input_0.2dB below
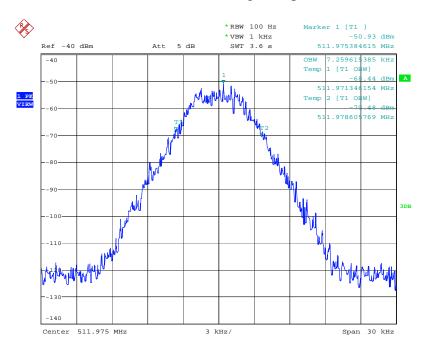


Date: 4.APR.2018  11:48:35

## 511.975 MHz, Signal Output
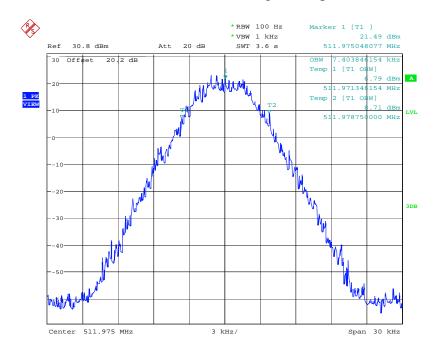


Date: 4.APR.2018  11:18:45

## 511.975 MHz, Signal Input_3dB



Date: 4.APR.2018  11:49:27

## 511.975 MHz, Signal Output
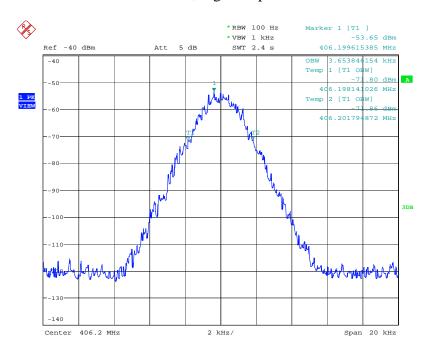


Date: 4.APR.2018  11:15:59
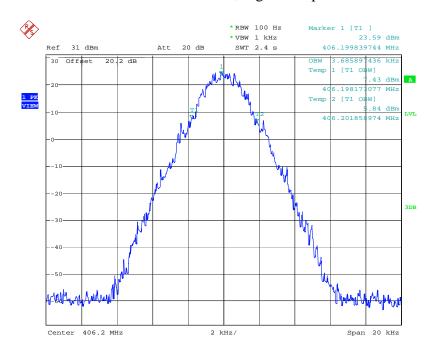
## EXHIBIT 5.  OBW DIGITAL 6.25KHZ

### 406.2 MHz, Signal Input_0.2dB below
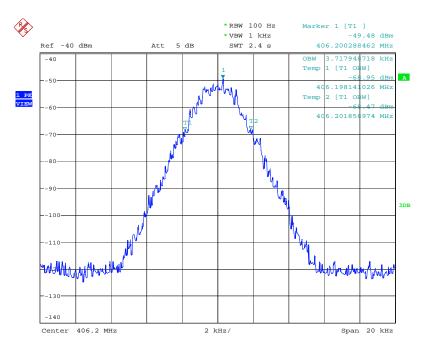


Date: 4.APR.2018  12:14:32

### 406.2 MHz, Signal Output
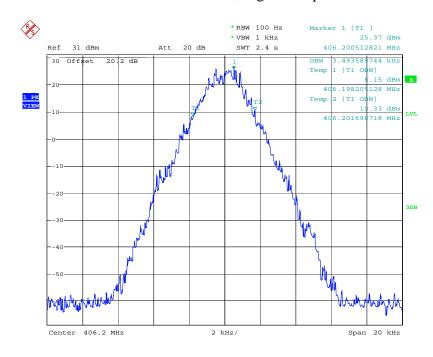


Date: 4.APR.2018  12:36:15

## 406.2 MHz, Signal Input_3dB
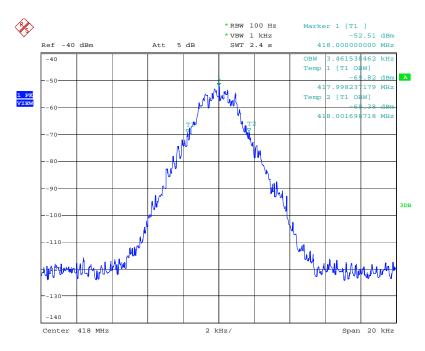


Date: 4.APR.2018  12:15:38

## 406.2 MHz, Signal Output
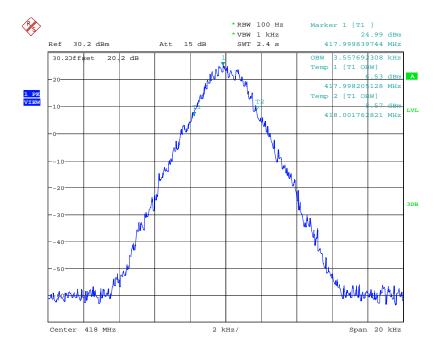


Date: 4.APR.2018  12:37:19

## 418 MHz, Signal Input_0.2dB below



```
                                    * RBW  100 Hz      Marker 1 [T1 ]
                                    * VBW  1 kHz                  -52.51 dBm
  Ref  -40 dBm         Att  5 dB      SWT  2.4 s        418.000000000 MHz
                                               OBW  3.461538462 kHz
  -40                                          Temp 1 [T1 OBW]
                                                            -69.82 dBm
  -50                                          417.998237179 MHz
                                               Temp 2 [T1 OBW]
  -60                                                        -69.38 dBm
                                               418.001698718 MHz
  -70         T1              T2
  -80
  -90
                                                                        3DB
 -100
 -110
 -130
 -140
  Center  418 MHz            2 kHz/              Span  20 kHz
```
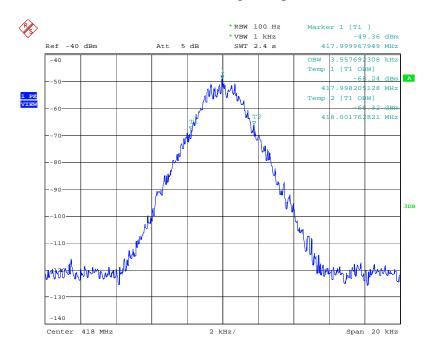
Date: 4.APR.2018  12:17:44

## 418 MHz, Signal Output



```
                                    * RBW  100 Hz      Marker 1 [T1 ]
                                    * VBW  1 kHz                  24.99 dBm
  Ref  30.2 dBm        Att  15 dB     SWT  2.4 s        417.999839744 MHz
  30.2 Offset  20.2 dB                         OBW  3.557692308 kHz
                                               Temp 1 [T1 OBW]
  -20                                                         6.53 dBm
                                               417.998205128 MHz
  -10                                          Temp 2 [T1 OBW]
                                                             6.57 dBm     LVL
  0                                            418.001762821 MHz
  -10
  -20
  -30                                                                    3DB
  -40
  -50
  Center  418 MHz            2 kHz/              Span  20 kHz
```
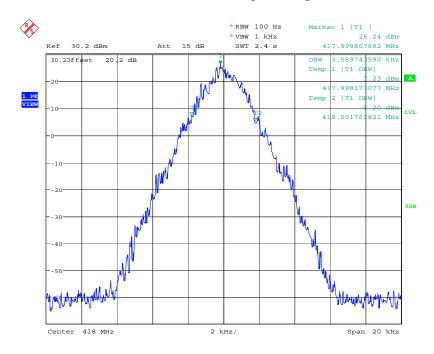
Date: 4.APR.2018  12:53:06

## 418 MHz, Signal Input_3dB



Date: 4.APR.2018  12:18:38

## 418 MHz, Signal Output
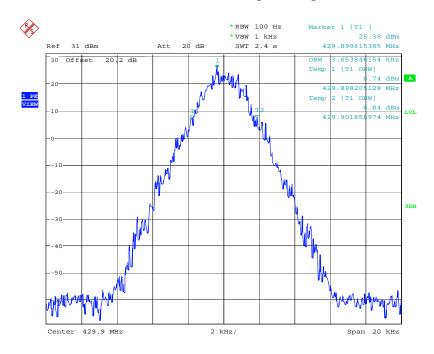


Date: 4.APR.2018  12:51:55

## 429.9 MHz, Signal Input_0.2dB below

```
                                        *RBW  100 Hz        Marker 1 [T1 ]
                                        *VBW  1 kHz                  -52.55 dBm
     Ref  -40 dBm          Att   5 dB    SWT  2.4 s         429.900032051 MHz

        -40                                            OBW   3.589743590 kHz
                                                       Temp 1 [T1 OBW]
        -50                                                     -71.86 dBm
                                                       429.898237179 MHz
  1 PK                                                  Temp 2 [T1 OBW]
  VIEW  -60                                                     -71.18 dBm
                                                       429.901826923 MHz
        -70        T1              T2

        -80

        -90                                                              3DB

       -100

       -110

       -120

       -130

       -140
     Center  429.9 MHz             2 kHz/              Span  20 kHz
```

Date: 4.APR.2018  12:20:16

## 429.9 MHz, Signal Output

```
                                        *RBW  100 Hz        Marker 1 [T1 ]
                                        *VBW  1 kHz                   25.38 dBm
     Ref   31 dBm          Att  20 dB    SWT  2.4 s         429.899615385 MHz

     30 Offset   20.2 dB                                OBW   3.653846154 kHz
                                                       Temp 1 [T1 OBW]
        20                                                      6.74 dBm
                                                       429.898205128 MHz
  1 PK                                                  Temp 2 [T1 OBW]
  VIEW  10        T1              T2                             6.84 dBm   LVL
                                                       429.901858974 MHz
         0

       -10

       -20

       -30                                                               3DB

       -40

       -50

     Center  429.9 MHz             2 kHz/              Span  20 kHz
```

Date: 4.APR.2018  12:54:52

## 429.9 MHz, Signal Input_3dB



Date: 4.APR.2018  12:21:38

## 429.9 MHz, Signal Output
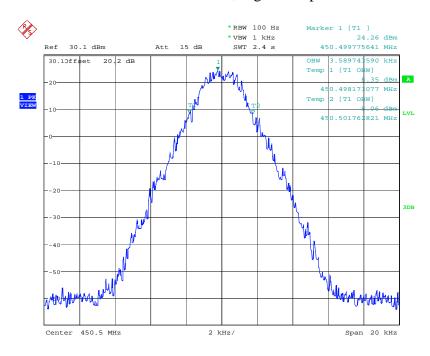


Date: 4.APR.2018  12:55:52

## 450.5 MHz, Signal Input_0.2dB below
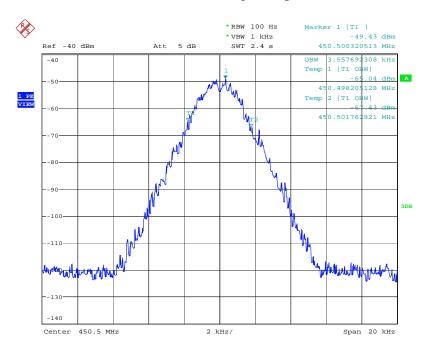


Date: 4.APR.2018  12:23:12

## 450.5 MHz, Signal Output
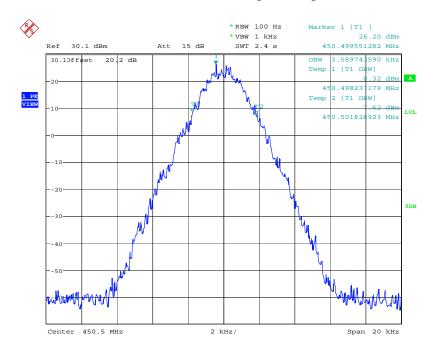


Date: 4.APR.2018  13:09:28

## 450.5 MHz, Signal Input_3dB
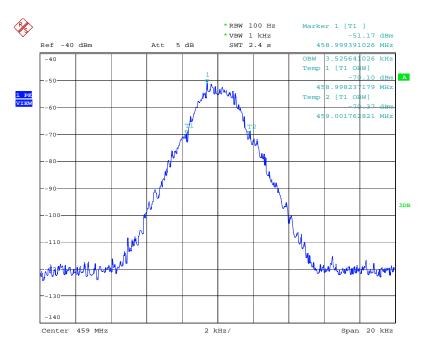


Date: 4.APR.2018  12:24:10

## 450.5 MHz, Signal Output
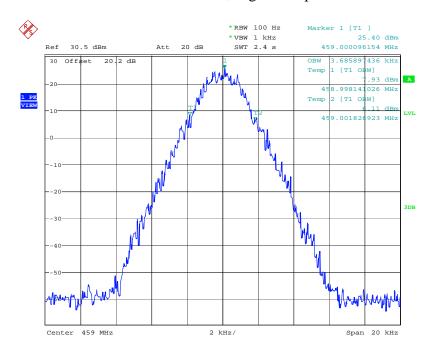


Date: 4.APR.2018  13:08:33

## 459 MHz, Signal Input_0.2dB below

```
                                    *RBW  100 Hz        Marker 1 [T1 ]
                                    *VBW  1 kHz                  -51.17 dBm
       Ref -40 dBm      Att  5 dB    SWT 2.4 s         458.999391026 MHz
        -40                                       OBW  3.525641026 kHz
                                                  Temp 1 [T1 OBW]
 1 PK   -50                              1                  -70.10 dBm    A
 VIEW                                             458.998237179 MHz
        -60                                       Temp 2 [T1 OBW]
                                                           -70.37 dBm
        -70          T1              T2           459.001762821 MHz
        -80
        -90
       -100                                                         3DB
       -110
       -120
       -130
       -140
       Center  459 MHz         2 kHz/              Span  20 kHz
```
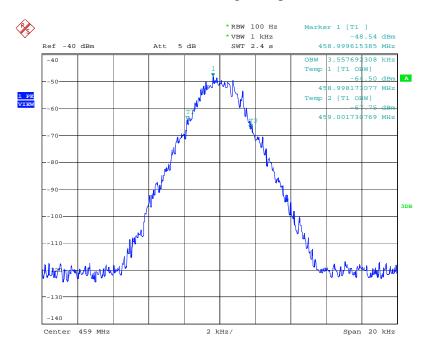
Date: 4.APR.2018  12:26:18

## 459 MHz, Signal Output

```
                                    *RBW  100 Hz        Marker 1 [T1 ]
                                    *VBW  1 kHz                   25.40 dBm
       Ref  30.5 dBm    Att  20 dB   SWT 2.4 s         459.000096154 MHz
       30 Offset   20.2 dB                         OBW  3.685897436 kHz
                                         1        Temp 1 [T1 OBW]
 1 PK  -20                                                   7.93 dBm    A
 VIEW                                             458.998141026 MHz
        10          T1              T2            Temp 2 [T1 OBW]
         0                                                   6.11 dBm   LVL
       -10                                        459.001826923 MHz
       -20
       -30                                                          3DB
       -40
       -50
       Center  459 MHz         2 kHz/              Span  20 kHz
```
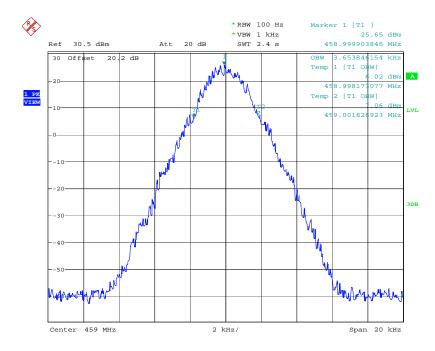
Date: 4.APR.2018  13:10:59

## 459 MHz, Signal Input_3dB
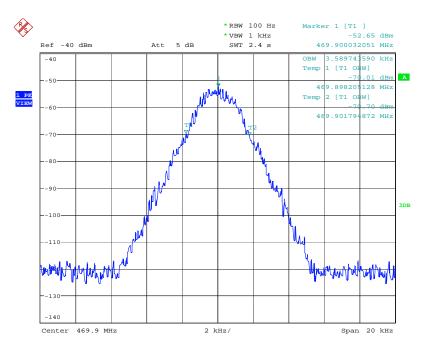


Date: 4.APR.2018  12:27:41

## 459 MHz, Signal Output



Date: 4.APR.2018  13:12:22

## 469.9 MHz, Signal Input_0.2dB below



```
*RBW 100 Hz        Marker 1 [T1 ]
*VBW 1 kHz                   -52.65 dBm
Ref -40 dBm        Att  5 dB   SWT 2.4 s   469.900032051 MHz
-40                              OBW  3.589743590 kHz
                                 Temp 1 [T1 OBW]
-50                                         -70.01 dBm
1 PK                             469.898205128 MHz
VIEW                             Temp 2 [T1 OBW]
-60                                         -70.70 dBm
                                 469.901794872 MHz
-70
-80
-90
-100                                                    3DB
-110
-120
-130
-140
Center  469.9 MHz        2 kHz/            Span  20 kHz
```

Date: 4.APR.2018  12:29:05

## 469.9 MHz, Signal Output



```
*RBW 100 Hz        Marker 1 [T1 ]
*VBW 1 kHz                    25.77 dBm
Ref  30.5 dBm      Att  20 dB  SWT 2.4 s   469.899871795 MHz
30 Offset   20.2 dB              OBW  3.589743590 kHz
                                 Temp 1 [T1 OBW]
-20                                          6.94 dBm
1 PK                             469.898205128 MHz
VIEW                             Temp 2 [T1 OBW]
10                                           8.34 dBm   LVL
0                                469.901794872 MHz
-10
-20
-30                                                     3DB
-40
-50
Center  469.9 MHz        2 kHz/            Span  20 kHz
```

Date: 4.APR.2018  13:30:36

## 469.9 MHz, Signal Input_3dB
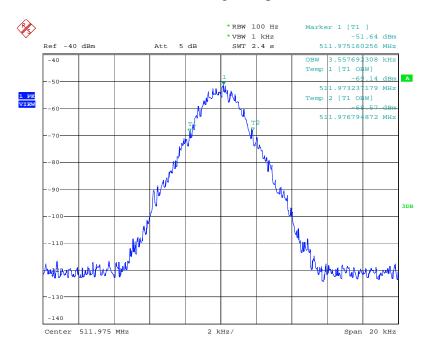


Date: 4.APR.2018  12:30:02

## 469.9 MHz, Signal Output
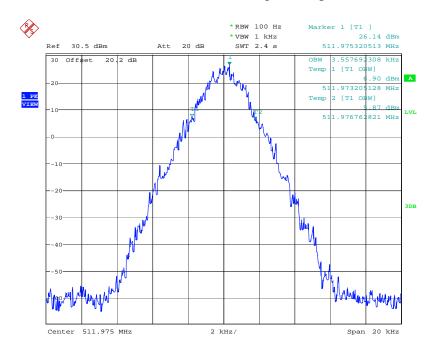


Date: 4.APR.2018  13:29:27

## 511.975 MHz, Signal Input_0.2dB below
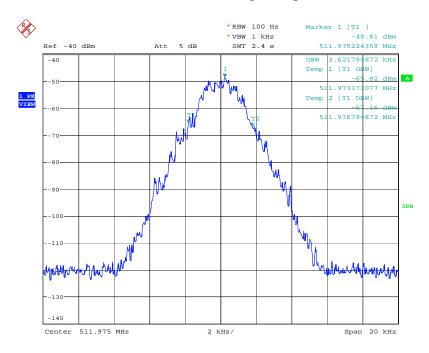


Date: 4.APR.2018  12:31:18

## 511.975 MHz, Signal Output
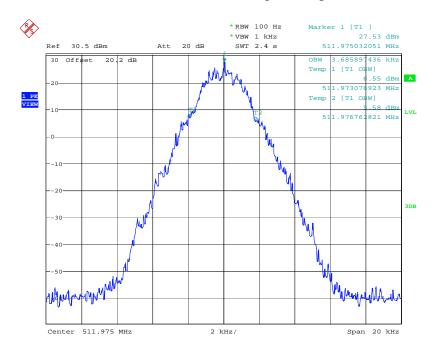


Date: 4.APR.2018  13:32:35

## 511.975 MHz, Signal Input_3dB



Date: 4.APR.2018  12:32:21

## 511.975 MHz, Signal Output
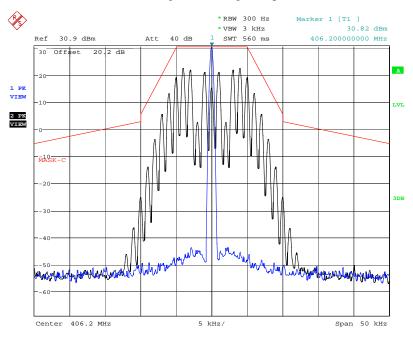


Date: 4.APR.2018  13:33:55
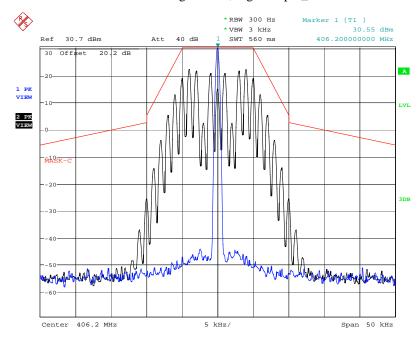
# EXHIBIT 6.    MASK C

### 406.2MHz-Analog-25KHz, Signal Input_0.2dB below AGC
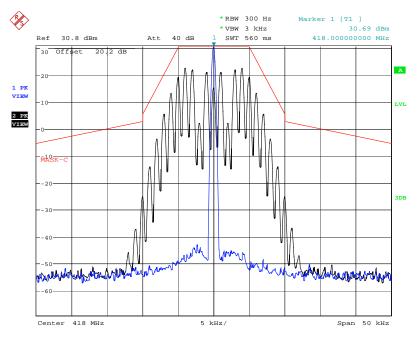


Date: 7.MAR.2018  15:47:22

### 406.2MHz-Analog-25KHz, Signal Input_3dB above AGC
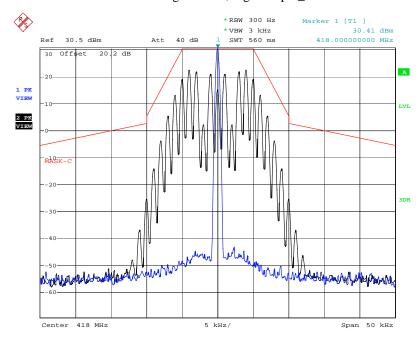


Date: 7.MAR.2018  15:55:16

418MHz-Analog-25 KHz, Signal Input_0.2dB below
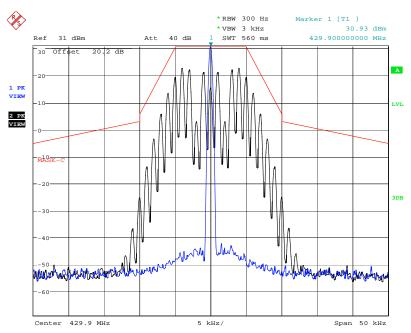


Date: 8.MAR.2018  08:39:45

418MHz-Analog-25 KHz, Signal Input_3dB above AGC
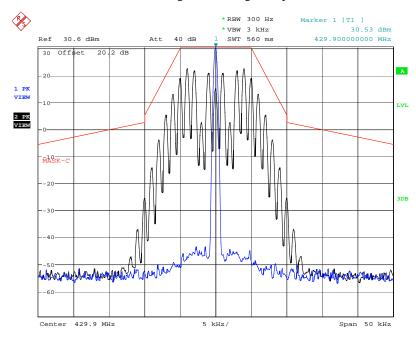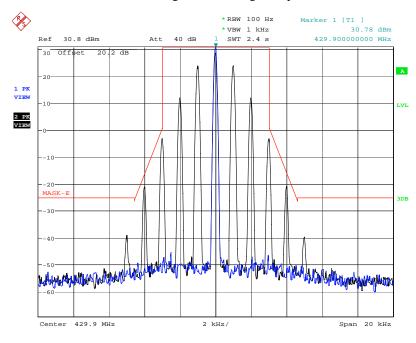


Date: 8.MAR.2018  08:42:37

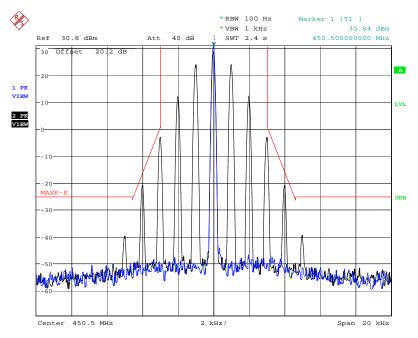### 429.9MHz-Analog-25 KHz, Signal Input_0.2dB below AGC
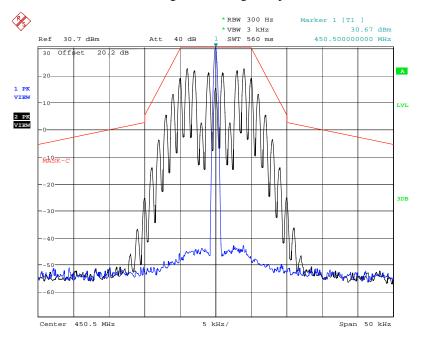


Date: 8.MAR.2018  08:46:37

### 429.9MHz-Analog-25KHz, Signal Input_3dB above AGC
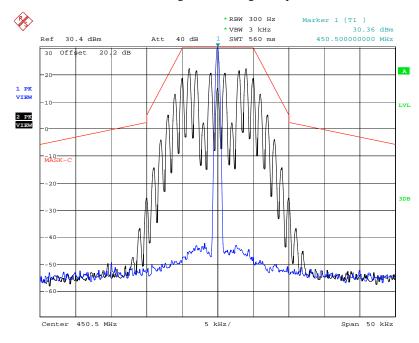


Date: 8.MAR.2018  08:49:19

## 450.5MHz-Analog-25 KHz, Signal Input_0.2dB below AGC
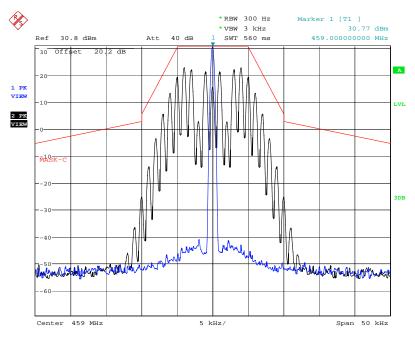
Date: 8.MAR.2018  08:53:06

## 450.5MHz-Analog-25 KHz, Signal Input_3dB above AGC
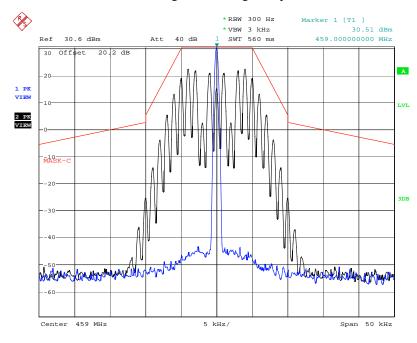
Date: 8.MAR.2018  08:56:18

### 459MHz-Analog-25 KHz, Signal Input_0.2dB below AGC
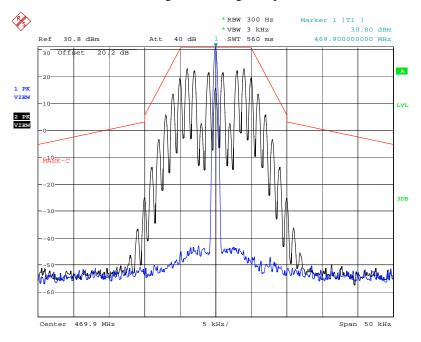


Date: 8.MAR.2018   08:59:58

### 459MHz-Analog-25 KHz, Signal Input_3dB above AGC
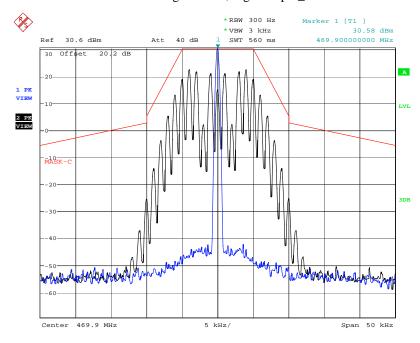


Date: 8.MAR.2018   09:02:41

### 469MHz-Analog-25 KHz, Signal Input_0.2dB below AGC
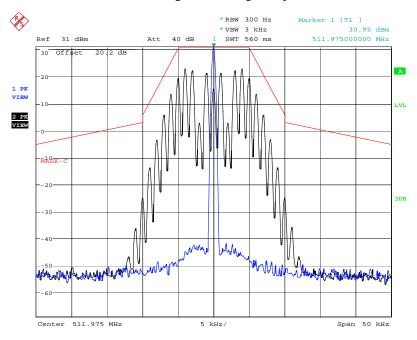


Date: 8.MAR.2018  09:05:36

### 469MHz-Analog-25 KHz, Signal Input_3dB above AGC
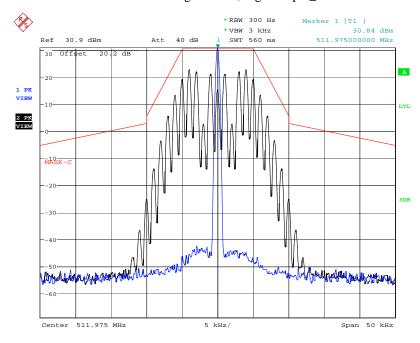


Date: 8.MAR.2018  09:07:58

511.975MHz-Analog-25 KHz, Signal Input_0.2dB below AGC



Date: 8.MAR.2018  09:11:10

511.975MHz-Analog-25 KHz, Signal Input_3dB above AGC
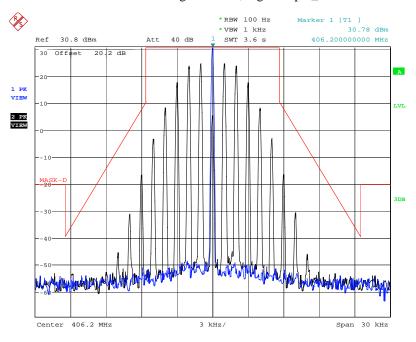


Date: 8.MAR.2018  09:13:24
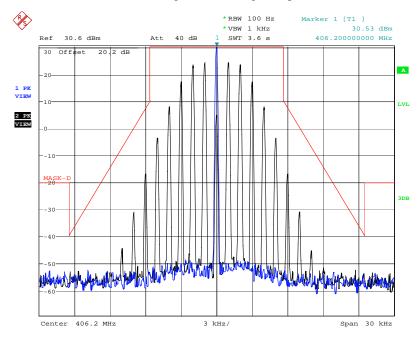
# EXHIBIT 7.   MASK D

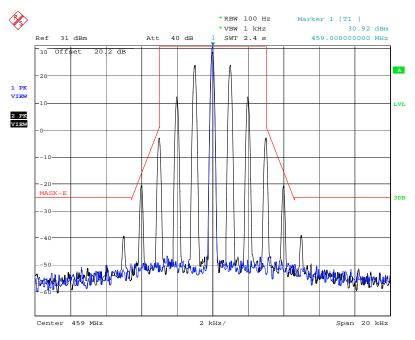406.2MHz-Analog-12.5KHz, Signal Input_0.2dB below
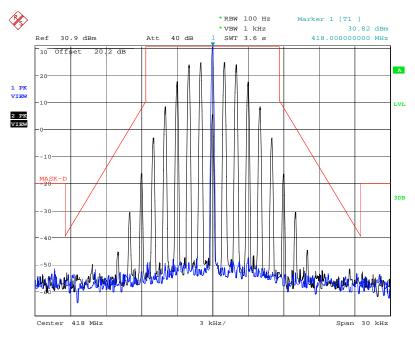


Date: 8.MAR.2018  09:26:01

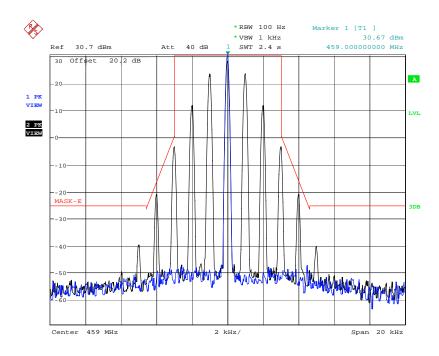406.2MHz-Analog-12.5KHz, Signal Input_3dB above AGC
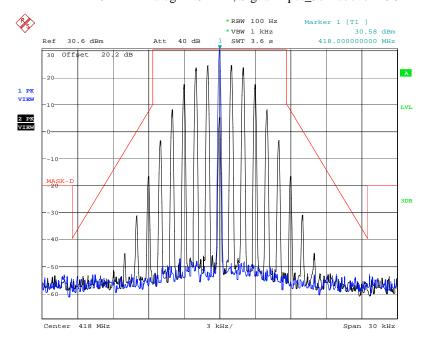


Date: 8.MAR.2018  09:28:46

418MHz-Analog-12.5 KHz, Signal Input_0.2dB below
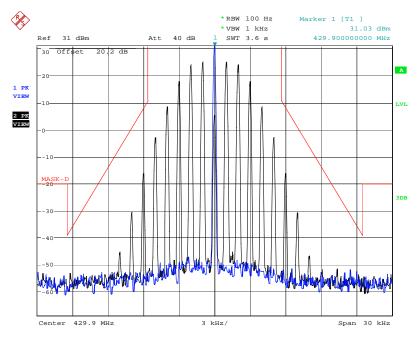


Date: 8.MAR.2018  09:32:05

418MHz-Analog-12.5 KHz, Signal Input_3dB above AGC
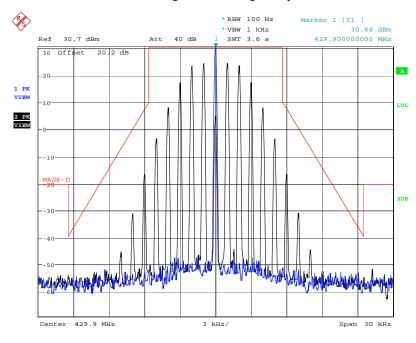


Date: 8.MAR.2018  09:34:35

### 429.9MHz-Analog-12.5KHz, Signal Input_0.2dB below
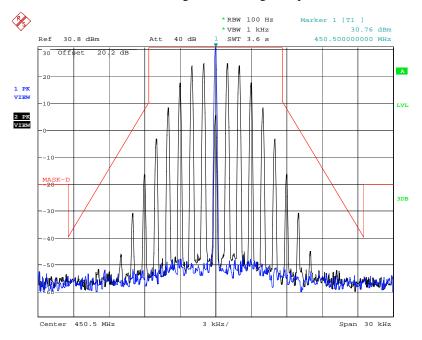


Date: 8.MAR.2018  09:37:43

### 429.9MHz-Analog-12.5KHz, Signal Input_3dB above AGC
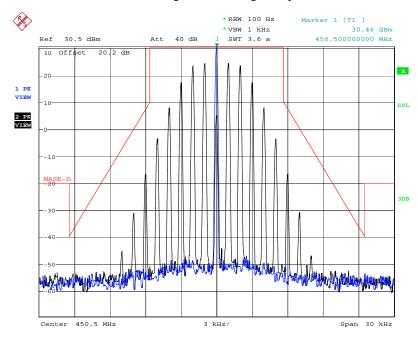


Date: 8.MAR.2018  09:39:59

450.5MHz-Analog-12.5KHz, Signal Input_0.2dB below
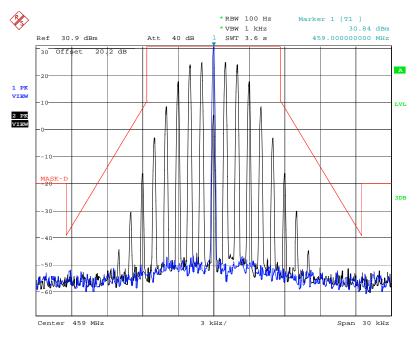


Date: 8.MAR.2018  09:43:35

450.5MHz-Analog-12.5KHz, Signal Input_3dB above AGC
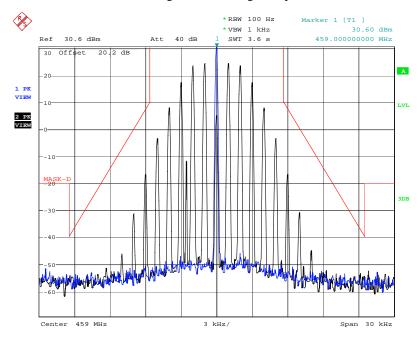


Date: 8.MAR.2018  09:46:33

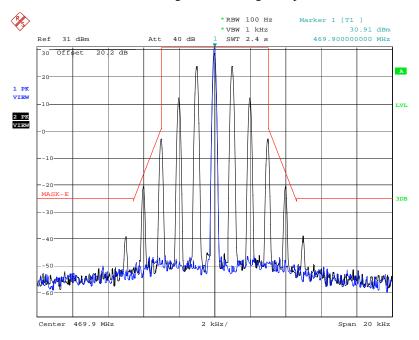### 459MHz-Analog-12.5 KHz, Signal Input_0.2dB below
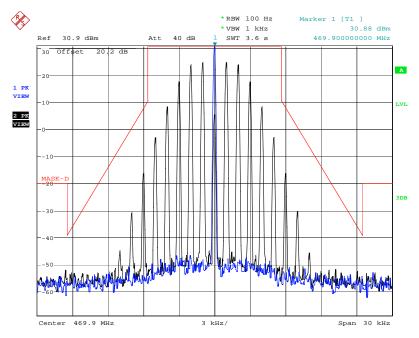


Date: 8.MAR.2018  09:50:01

### 459MHz-Analog-12.5 KHz, Signal Input_3dB above AGC
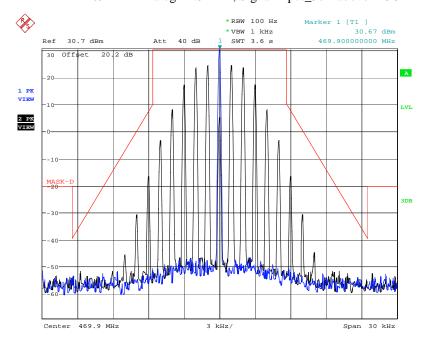


Date: 8.MAR.2018  09:52:44

## 469MHz-Analog-12.5 KHz, Signal Input_0.2dB below
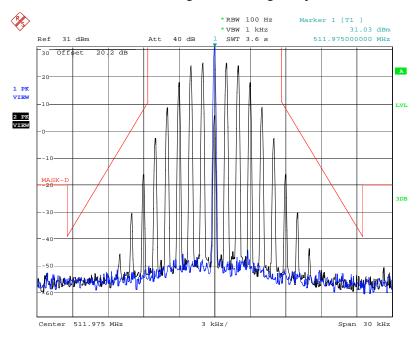


Date: 8.MAR.2018  09:56:16

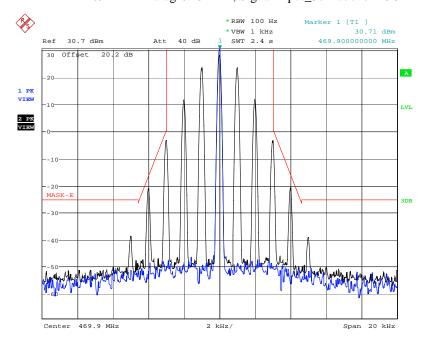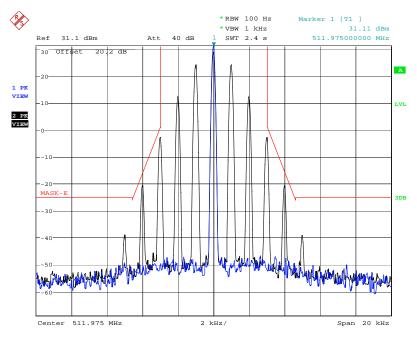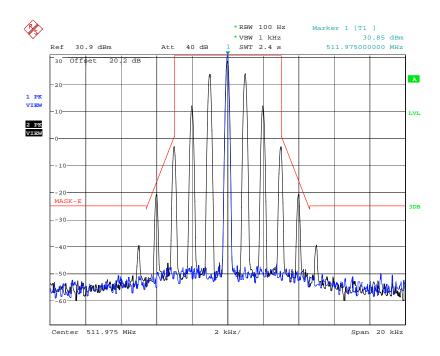## 469MHz-Analog-12.5 KHz, Signal Input_3dB above AGC
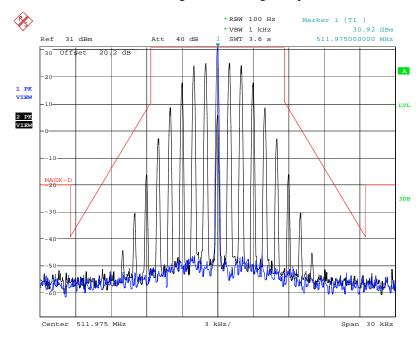


Date: 8.MAR.2018  09:58:34

### 511.975MHz-Analog-12.5 KHz, Signal Input_0.2dB below
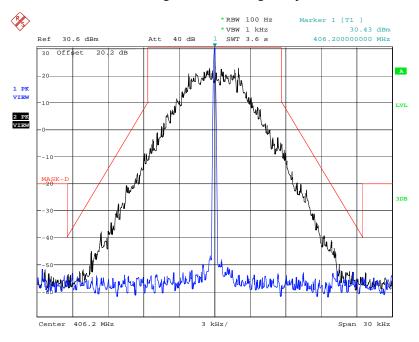


Date: 8.MAR.2018  10:04:05

### 511.975MHz-Analog-12.5 KHz, Signal Input_3dB above AGC
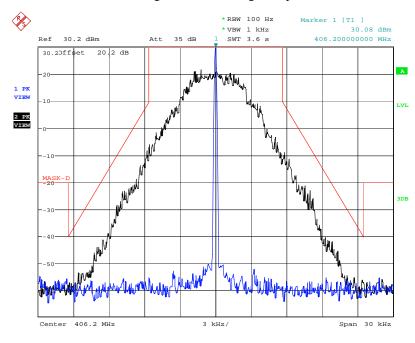


Date: 8.MAR.2018  10:01:47

### 406.2MHz-Digital-12.5KHz, Signal Input_0.2dB below
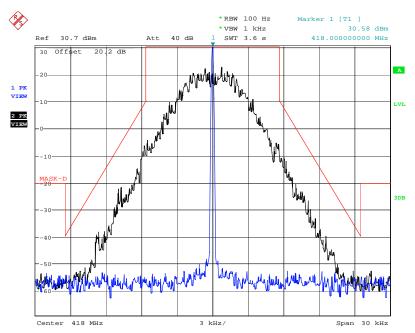


Date: 4.APR.2018  10:05:54

### 406.2MHz-Digital-12.5KHz, Signal Input_3dB above AGC
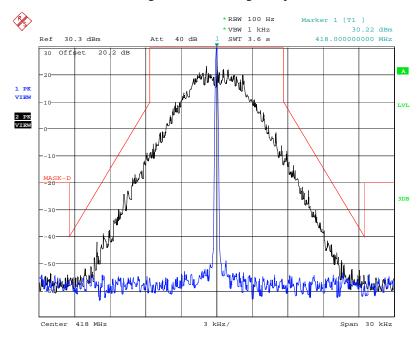


Date: 4.APR.2018  10:10:01

418MHz-Digital-12.5 KHz, Signal Input_0.2dB below
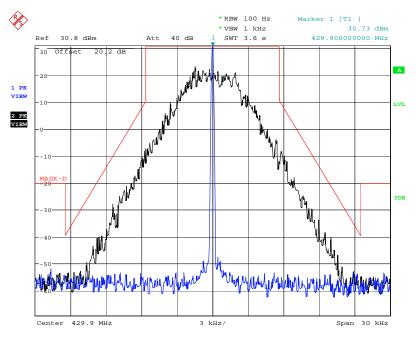


Date: 4.APR.2018  10:27:18

418MHz-Digital-12.5 KHz, Signal Input_3dB above AGC
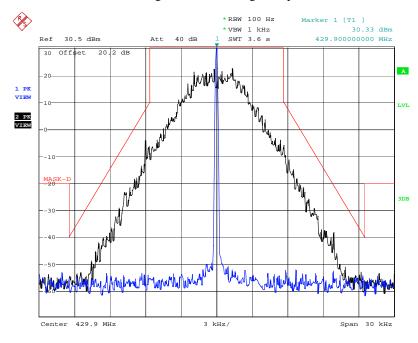


Date: 4.APR.2018  10:24:48

## 429.9MHz- Digital-12.5KHz, Signal Input_0.2dB below
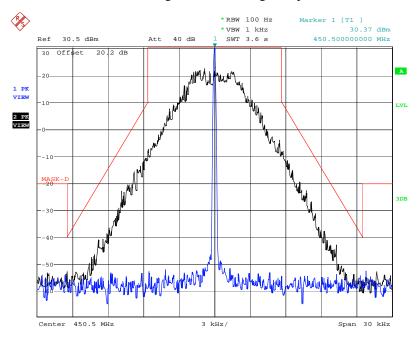


Date: 4.APR.2018  10:37:53

## 429.9MHz-Digital-12.5KHz, Signal Input_3dB above AGC
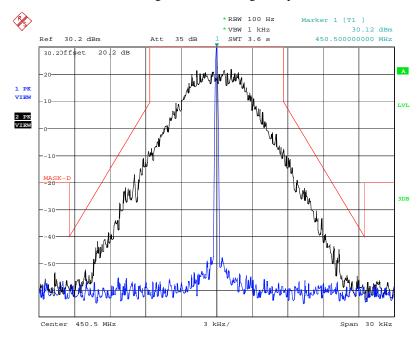


Date: 4.APR.2018  10:35:18

## 450.5MHz- Digital-12.5KHz, Signal Input_0.2dB below
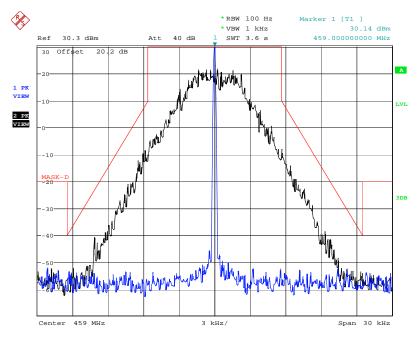


Date: 4.APR.2018  10:47:01

## 450.5MHz-Digital-12.5KHz, Signal Input_3dB above AGC
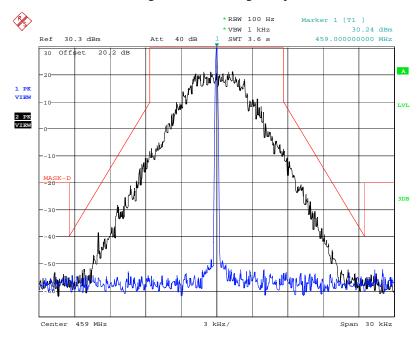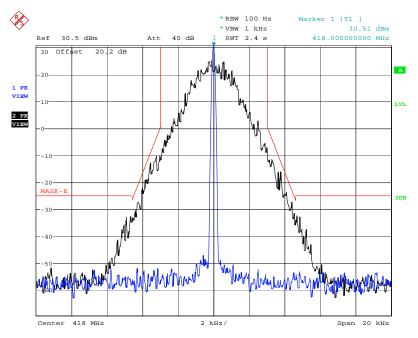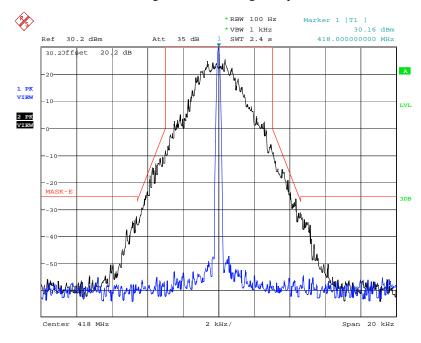


Date: 4.APR.2018  10:44:34

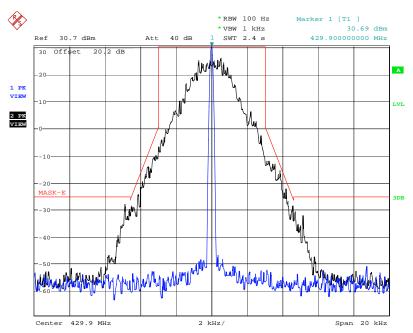459MHz-Digital-12.5 KHz, Signal Input_0.2dB below
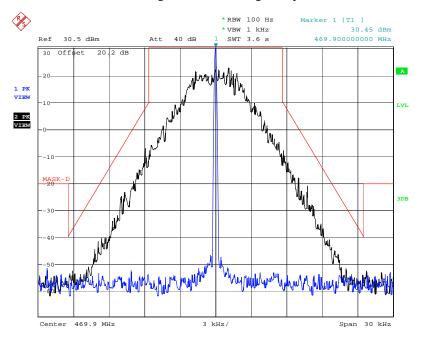


Date: 4.APR.2018  10:59:32
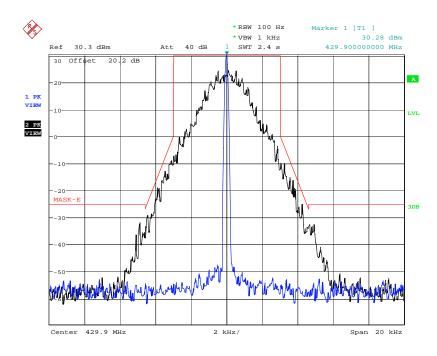
459MHz-Digital-12.5 KHz, Signal Input_3dB above AGC
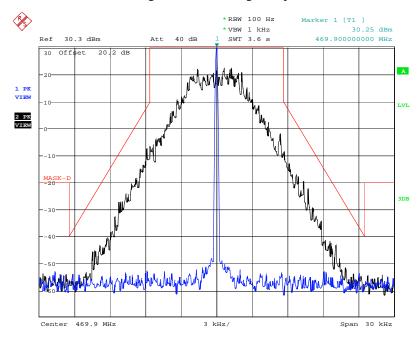


Date: 4.APR.2018  10:57:56

## 469MHz-Digital-12.5 KHz, Signal Input_0.2dB below



```
                                    *RBW 100 Hz     Marker 1 [T1 ]
                                    *VBW 1 kHz              30.45 dBm
 Ref  30.5 dBm        Att  40 dB   1 SWT 3.6 s      469.900000000 MHz

  30  Offset  20.2 dB                                                    A

1 PK
VIEW
                                                                        LVL
2 PK
VIEW

MASK-D                                                                  3DB
```

Center  469.9 MHz            3 kHz/            Span  30 kHz
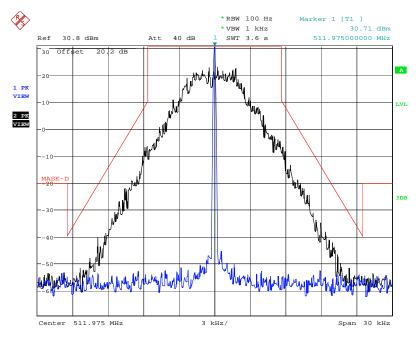
Date: 4.APR.2018  11:07:32

## 469MHz-Digital-12.5 KHz, Signal Input_3dB above AGC



```
                                    *RBW 100 Hz     Marker 1 [T1 ]
                                    *VBW 1 kHz              30.25 dBm
 Ref  30.3 dBm        Att  40 dB   1 SWT 3.6 s      469.900000000 MHz

  30  Offset  20.2 dB                                                    A

1 PK
VIEW
                                                                        LVL
2 PK
VIEW

MASK-D                                                                  3DB
```

Center  469.9 MHz            3 kHz/            Span  30 kHz
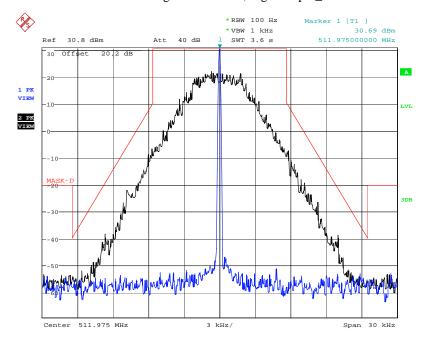
Date: 4.APR.2018  11:05:30

511.975MHz-Digital-12.5 KHz, Signal Input_0.2dB below



Date: 4.APR.2018  11:11:16
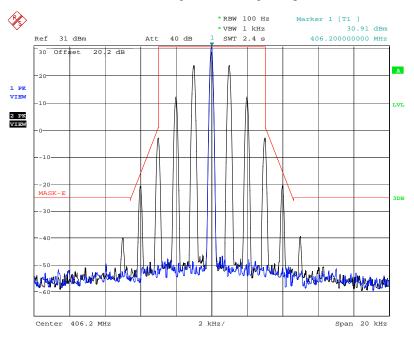
511.975MHz-Digital-12.5 KHz, Signal Input_3dB above AGC



Date: 4.APR.2018  11:13:08
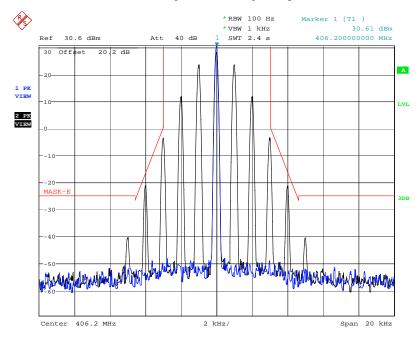
# EXHIBIT 8.  MASK E

### 406.2MHz-Analog-6.25KHz, Signal Input_0.2dB below
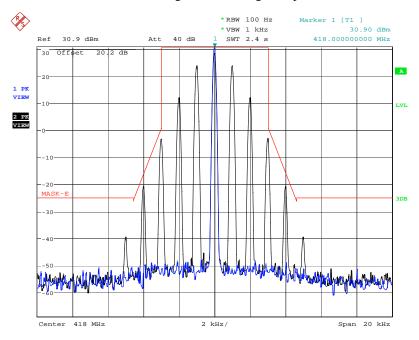


Date: 8.MAR.2018  10:25:23

### 406.2MHz-Analog-6.25KHz, Signal Input_3dB above AGC
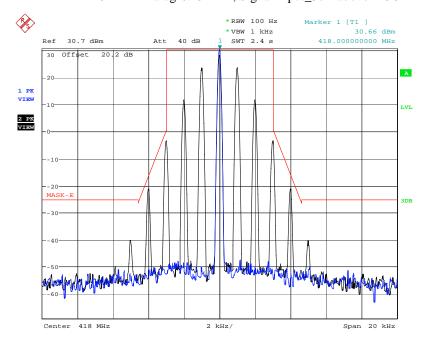


Date: 8.MAR.2018  10:27:34

### 418MHz-Analog-6.25 KHz, Signal Input_0.2dB below
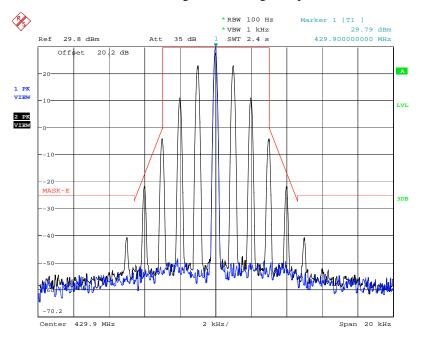


Date: 8.MAR.2018  10:30:32

### 418MHz-Analog-6.25 KHz, Signal Input_3dB above AGC



Date: 8.MAR.2018  10:32:58

429.9MHz-Analog-6.25KHz, Signal Input_0.2dB below



Date: 8.MAR.2018  10:42:34

429.9MHz-Analog-6.25KHz, Signal Input_3dB above AGC
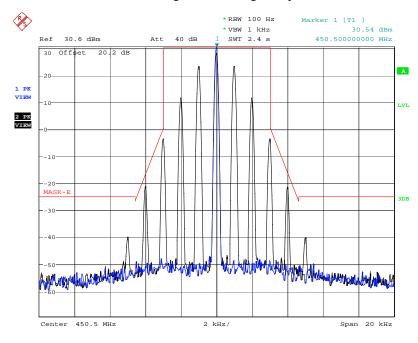


Date: 8.MAR.2018  10:45:33

450.5MHz-Analog-6.25KHz, Signal Input_0.2dB below



Date: 8.MAR.2018  10:51:17

450.5MHz-Analog-6.25KHz, Signal Input_3dB above AGC



Date: 8.MAR.2018  10:54:15

459MHz-Analog-6.25 KHz, Signal Input_0.2dB below



Date: 8.MAR.2018  10:57:26

459MHz-Analog-6.25 KHz, Signal Input_3dB above AGC



Date: 8.MAR.2018  10:59:31

469MHz-Analog-6.25 KHz, Signal Input_0.2dB below



Date: 8.MAR.2018  11:02:33

469MHz-Analog-6.25 KHz, Signal Input_3dB above AGC



Date: 8.MAR.2018  11:06:34

511.975MHz-Analog-6.25 KHz, Signal Input_0.2dB below
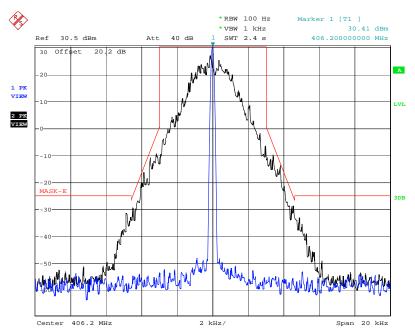


Date: 8.MAR.2018  11:10:27

511.975MHz-Analog-6.25 KHz, Signal Input_3dB above AGC
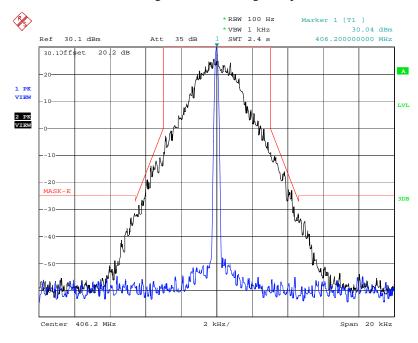


Date: 8.MAR.2018  11:14:51

## 406.2MHz-Digital-6.25KHz, Signal Input_0.2dB below



Date: 4.APR.2018  12:44:18

## 406.2MHz- Digital -6.25KHz, Signal Input_3dB above AGC



Date: 4.APR.2018  12:41:35

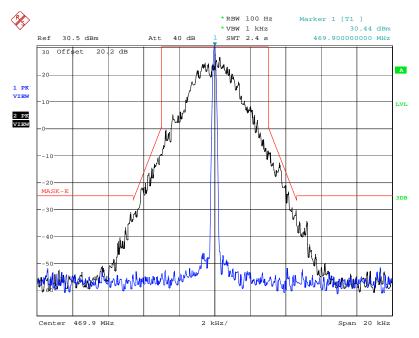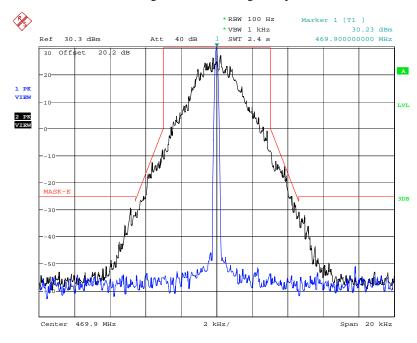418MHz- Digital 6.25 KHz, Signal Input_0.2dB below



Date: 4.APR.2018  12:48:12

418MHz- Digital 6.25 KHz, Signal Input_3dB above AGC



Date: 4.APR.2018  12:50:26

### 429.9MHz- Digital -6.25KHz, Signal Input_0.2dB below
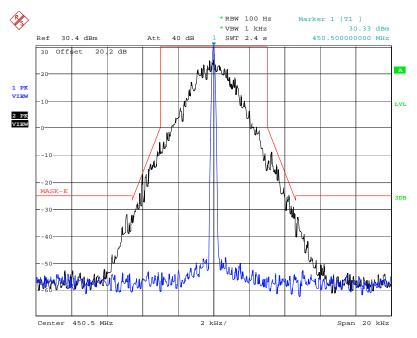


Date: 4.APR.2018  13:00:55

### 429.9MHz- Digital -6.25KHz, Signal Input_3dB above AGC
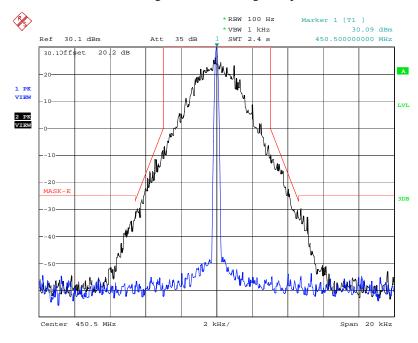


Date: 4.APR.2018  12:58:42

### 450.5MHz- Digital -6.25KHz, Signal Input_0.2dB below
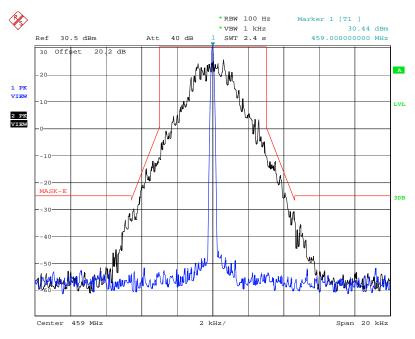


Date: 4.APR.2018  13:04:56

### 450.5MHz- Digital -6.25KHz, Signal Input_3dB above AGC
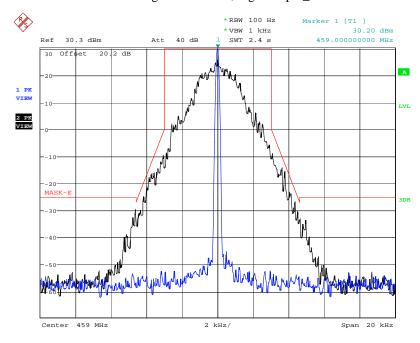


Date: 4.APR.2018  13:07:02

459MHz- Digital 6.25 KHz, Signal Input_0.2dB below



Date: 4.APR.2018  13:16:50

459MHz- Digital 6.25 KHz, Signal Input_3dB above AGC



Date: 4.APR.2018  13:14:43

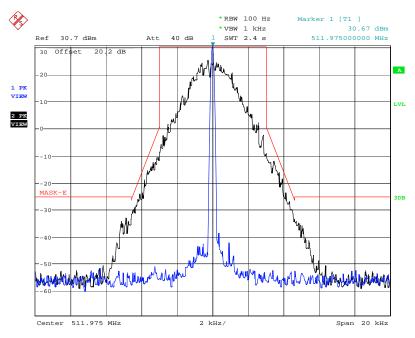469MHz- Digital 6.25 KHz, Signal Input_0.2dB below



Date: 4.APR.2018  13:22:18

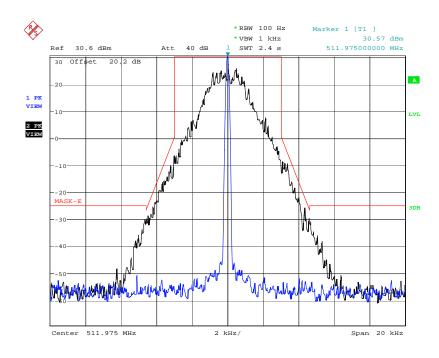469MHz- Digital 6.25 KHz, Signal Input_3dB above AGC



Date: 4.APR.2018  13:24:59

511.975MHz- Digital 6.25 KHz, Signal Input_0.2dB below



Date: 4.APR.2018  13:39:54

511.975MHz- Digital 6.25 KHz, Signal Input_3dB above AGC



Date: 4.APR.2018  13:36:16