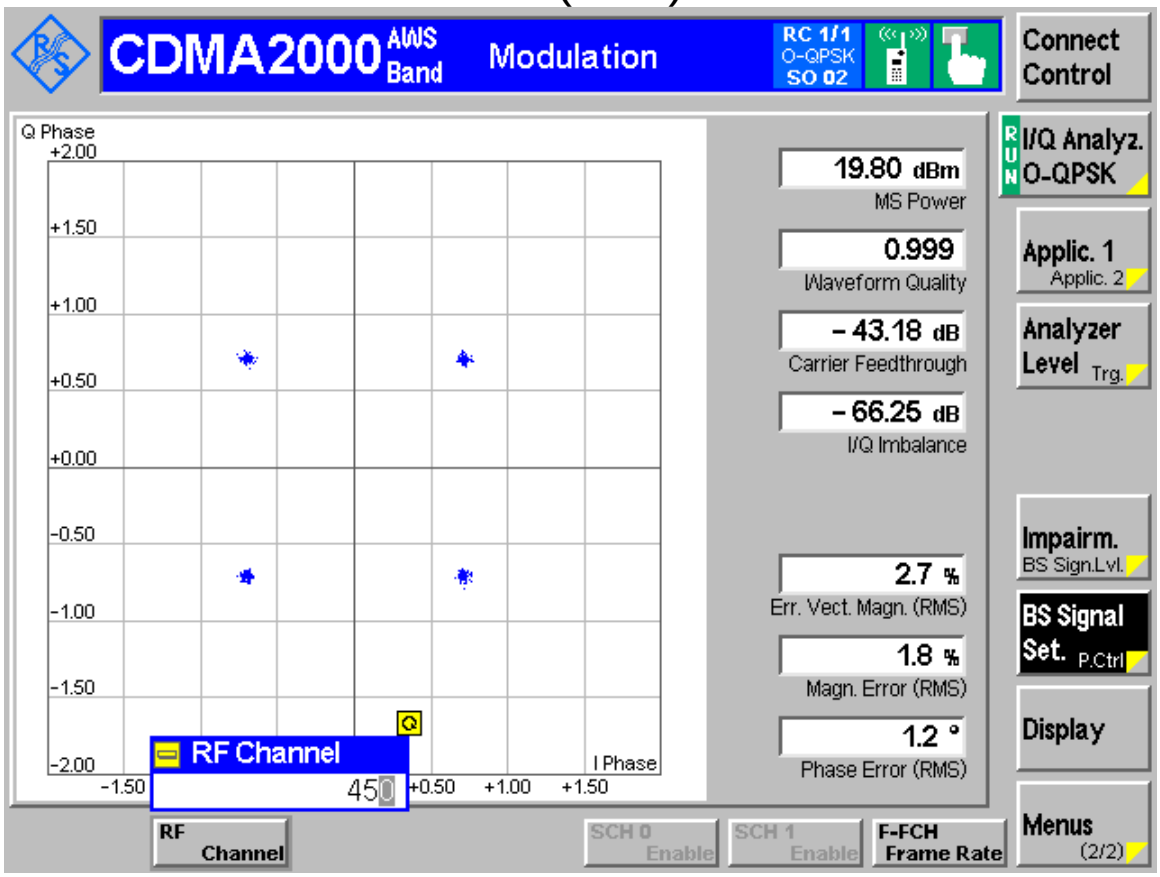
Appendix A

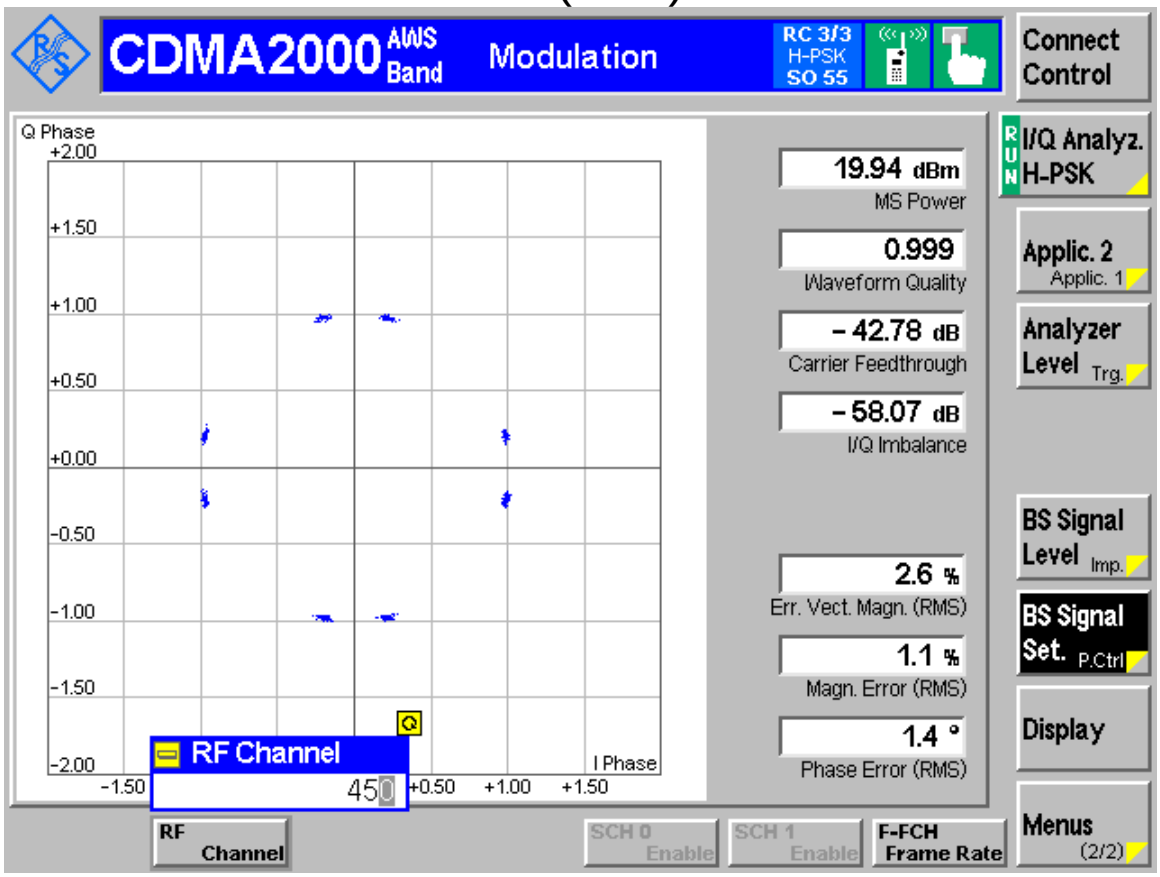
Modulation Characteristics

According to FCC Part 2.1047 & Part27 Subpart C&L

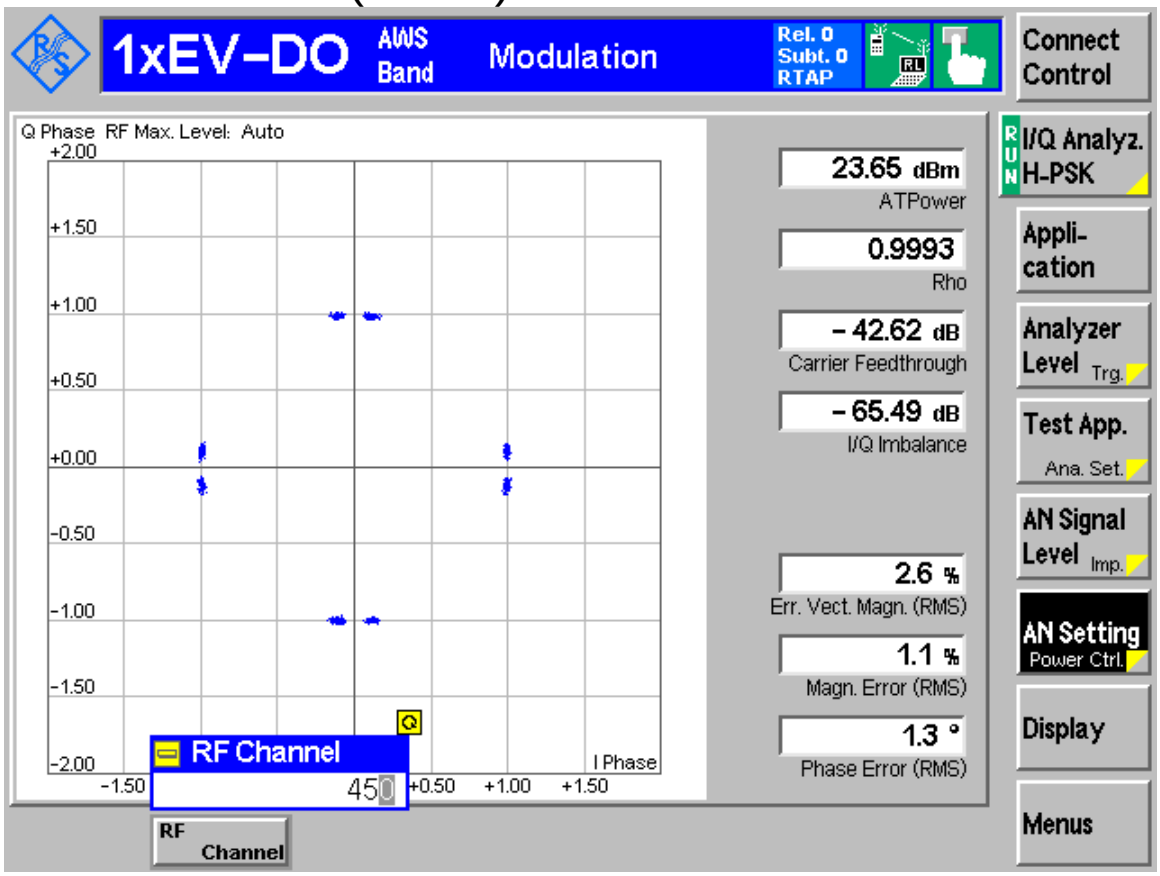
Channel
450(TM1)



Channel
450(TM3)



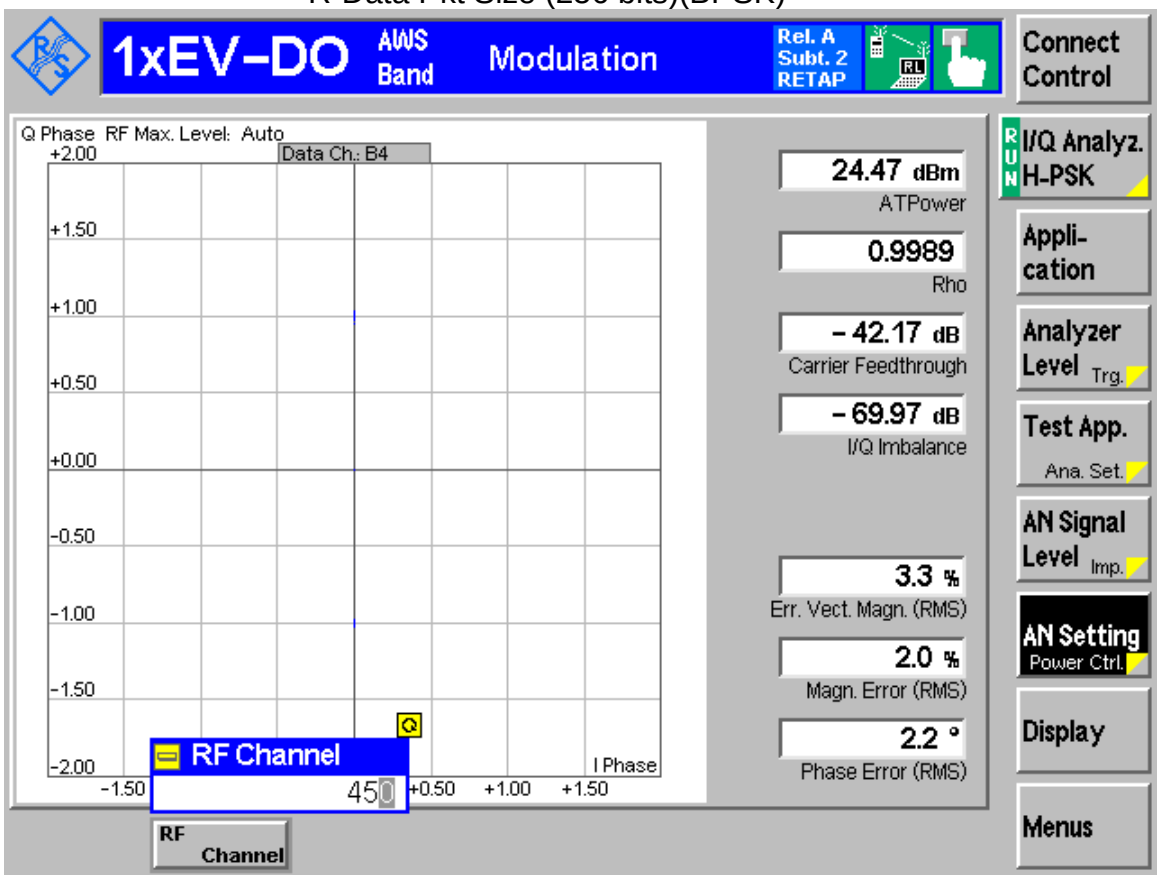
Channel 450(Subtype 0)
(HPSK)



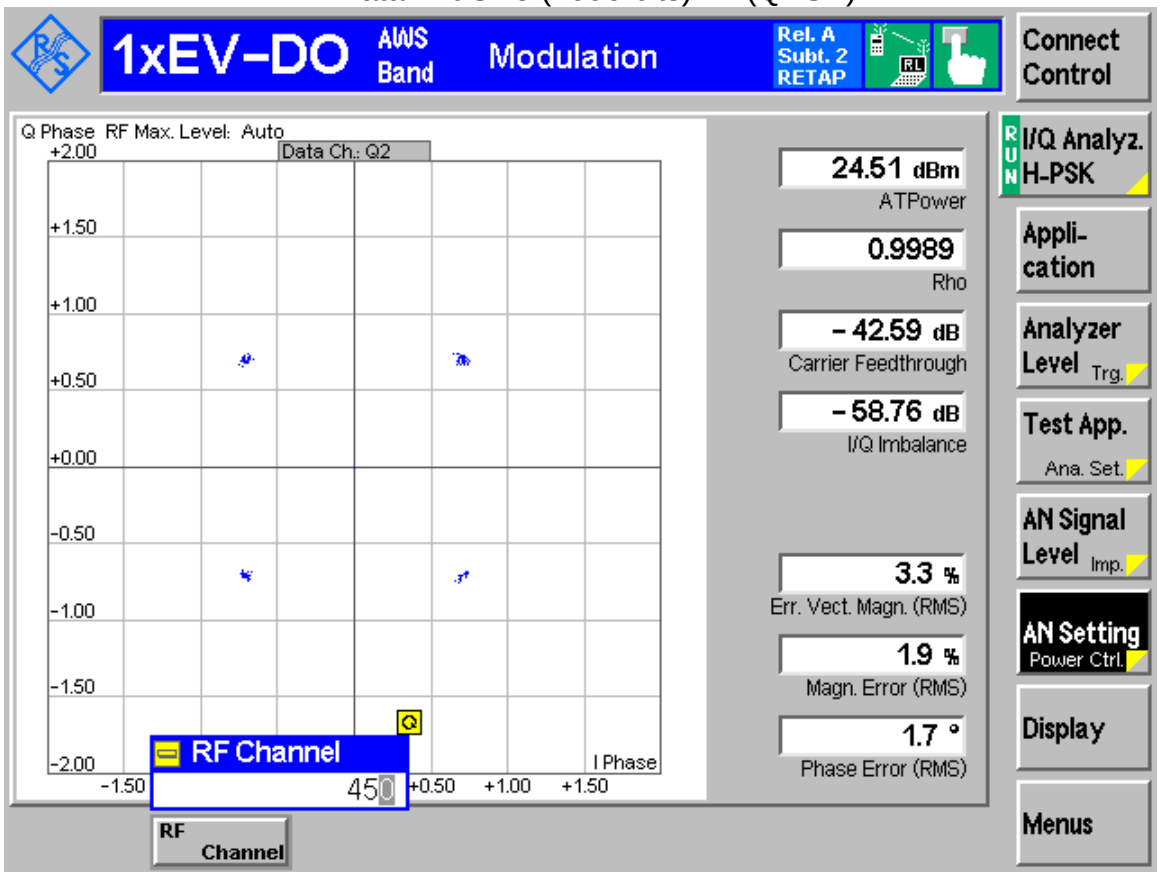
Channel 450(Subtype 2)

The R-Data packet size determines the modulation format：

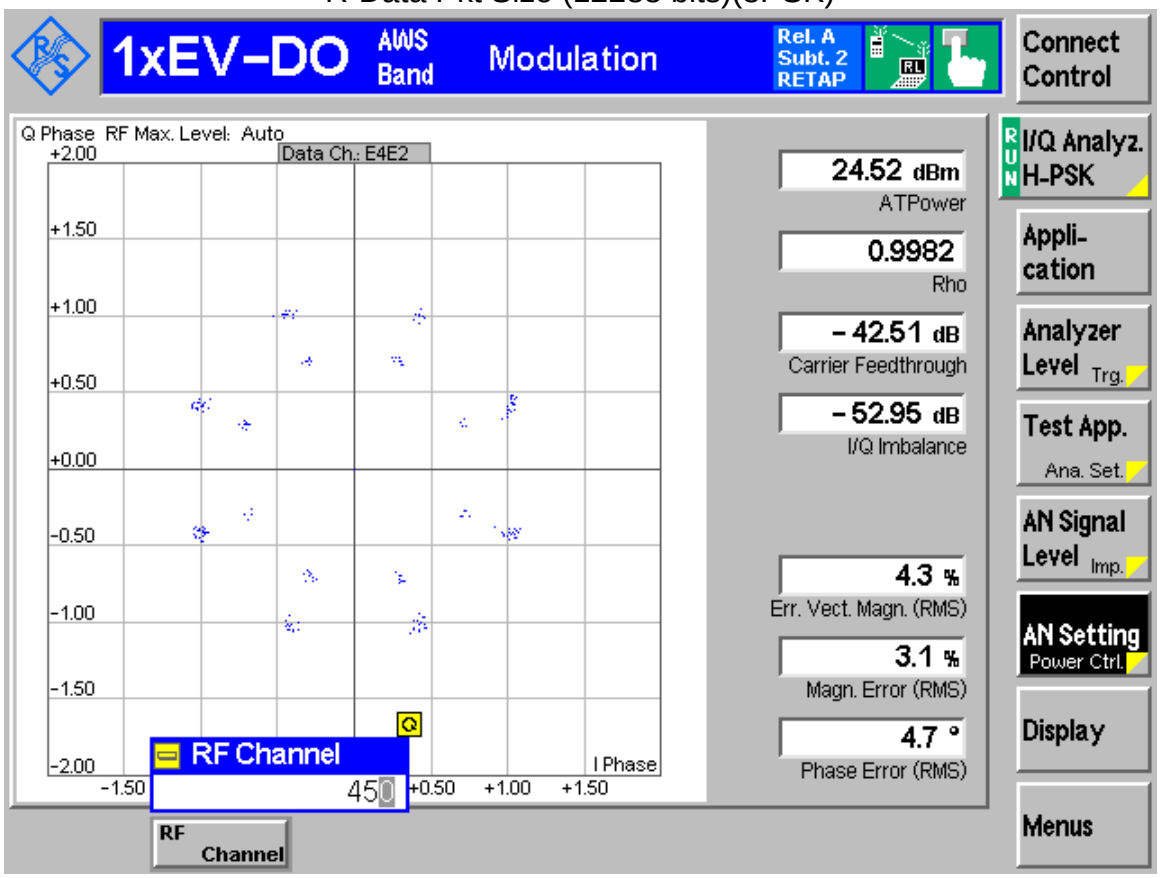
R-Data Pkt Size (256 bits)(BPSK)



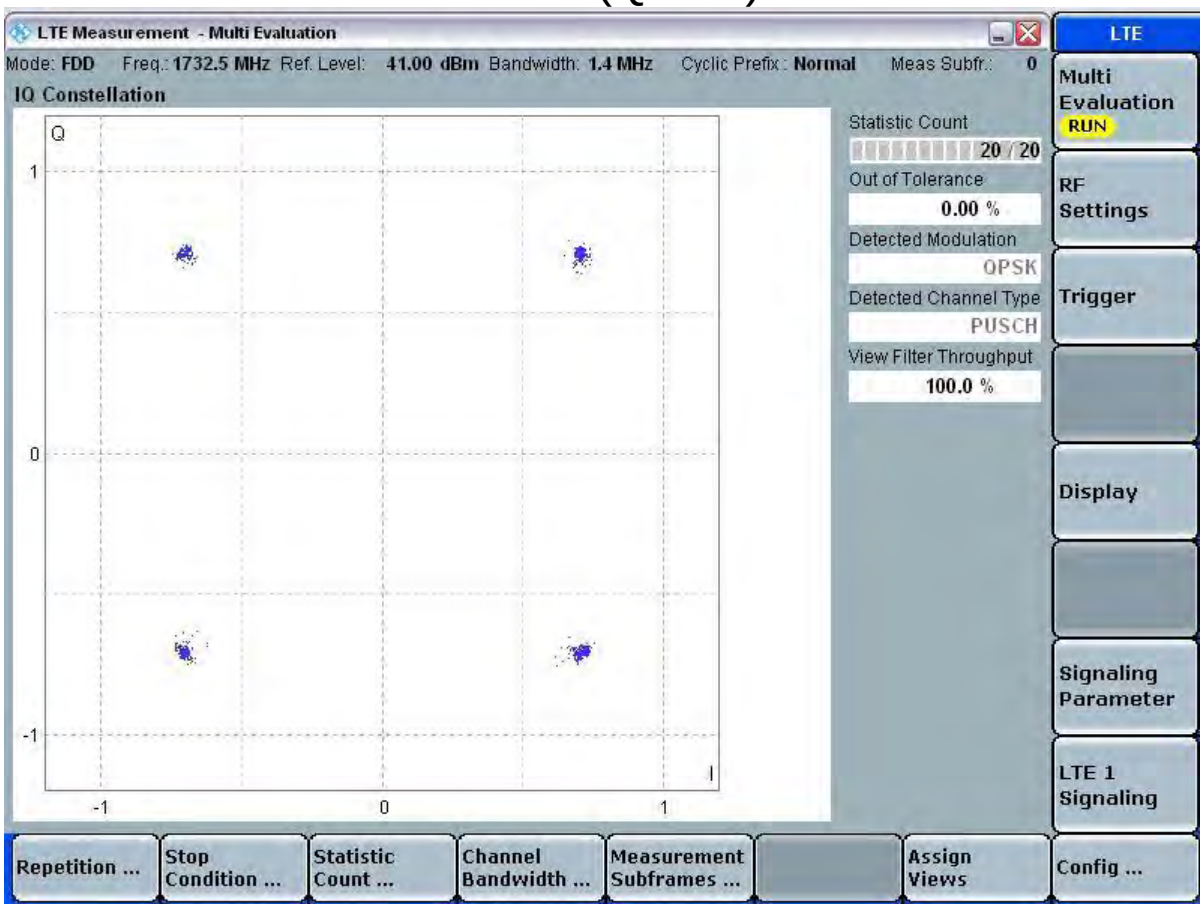
R-Data Pkt Size (4096 bits) (QPSK)



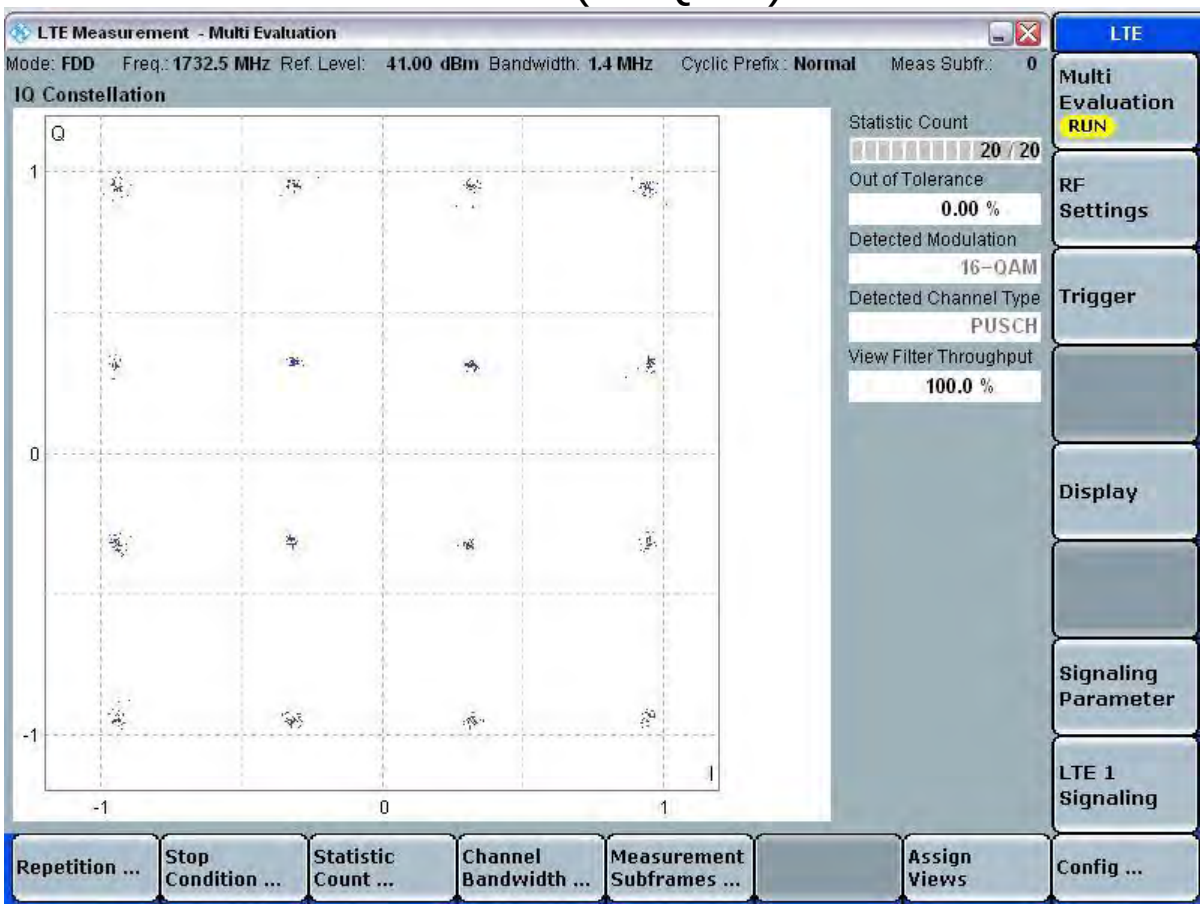
R-Data Pkt Size (12288 bits)(8PSK)



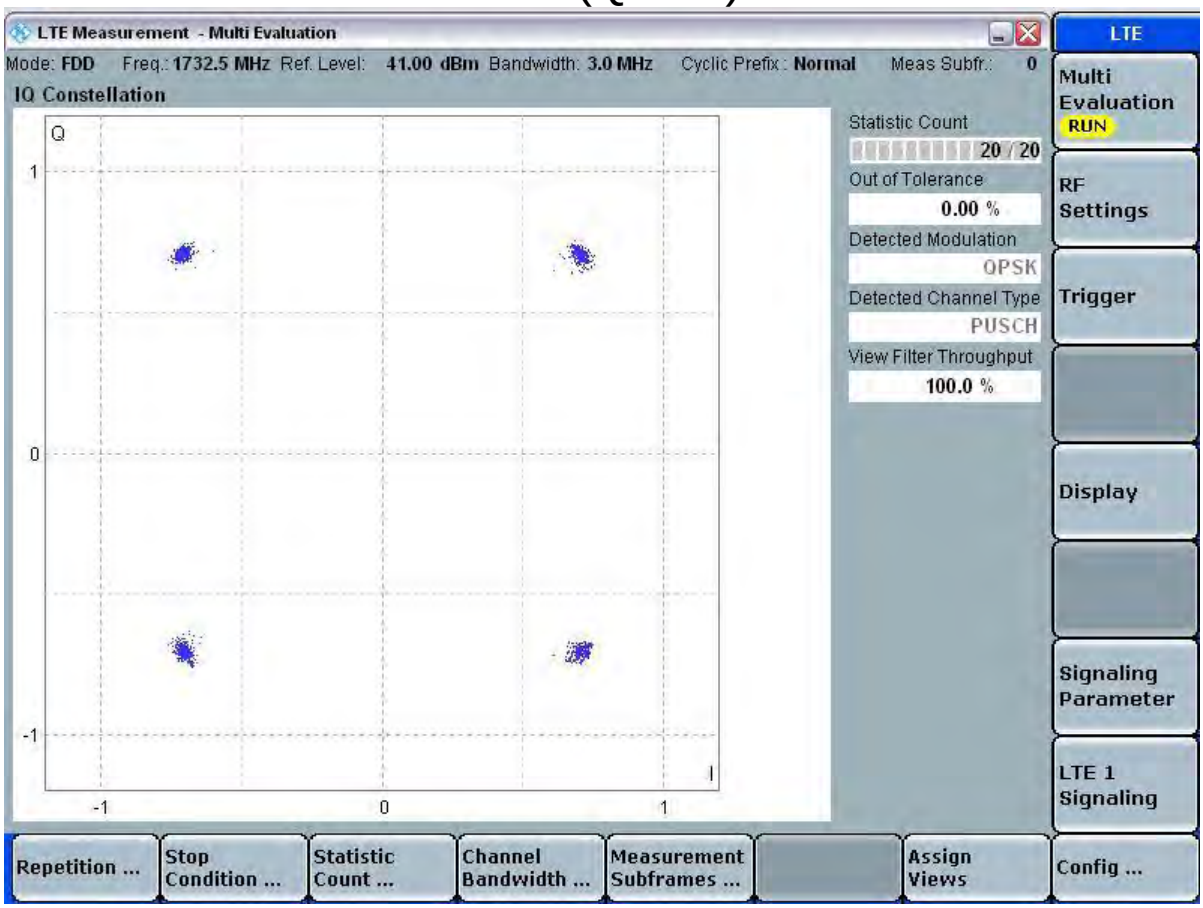
Channel 20175(TM4)
1.4MHz(QPSK)



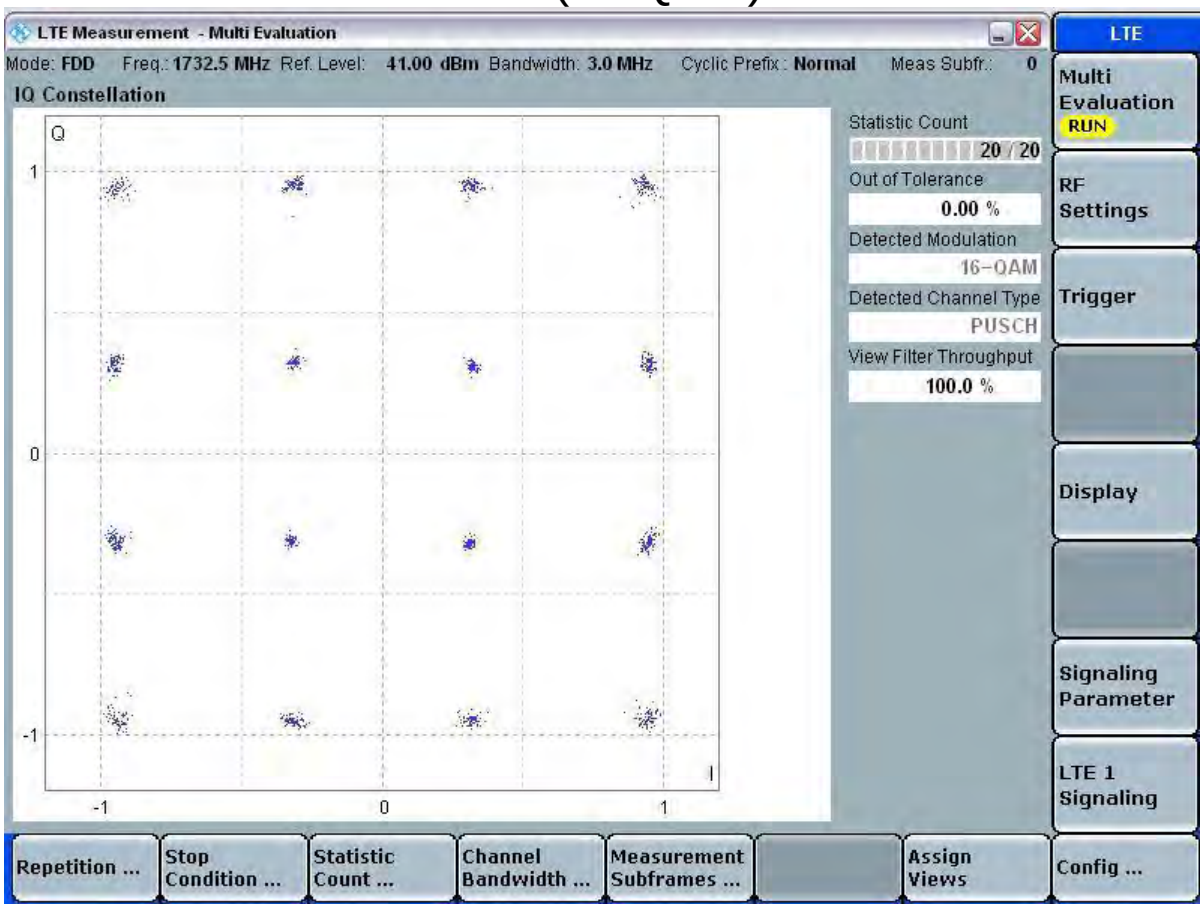
Channel 20175(TM5)
1.4MHz(16-QAM)



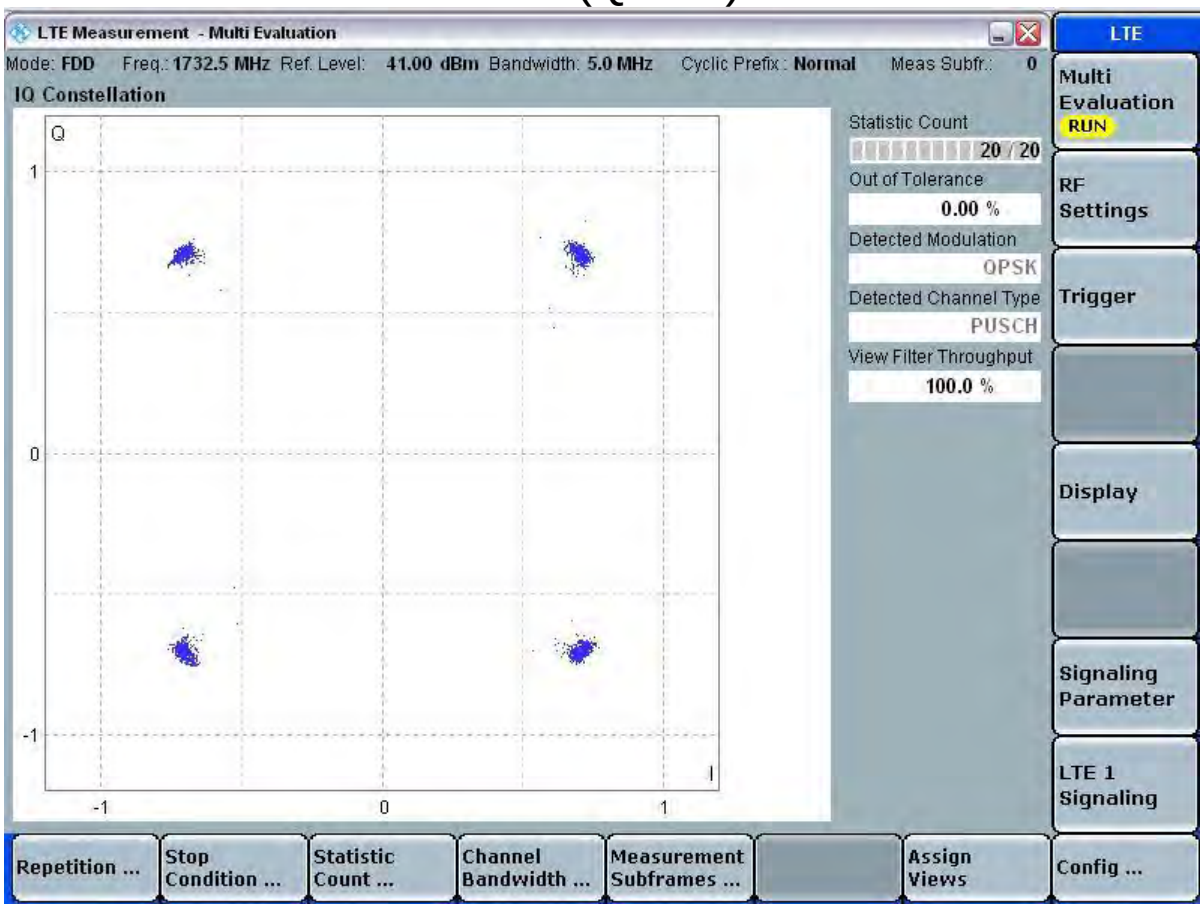
Channel 20175(TM4)
3MHz(QPSK)



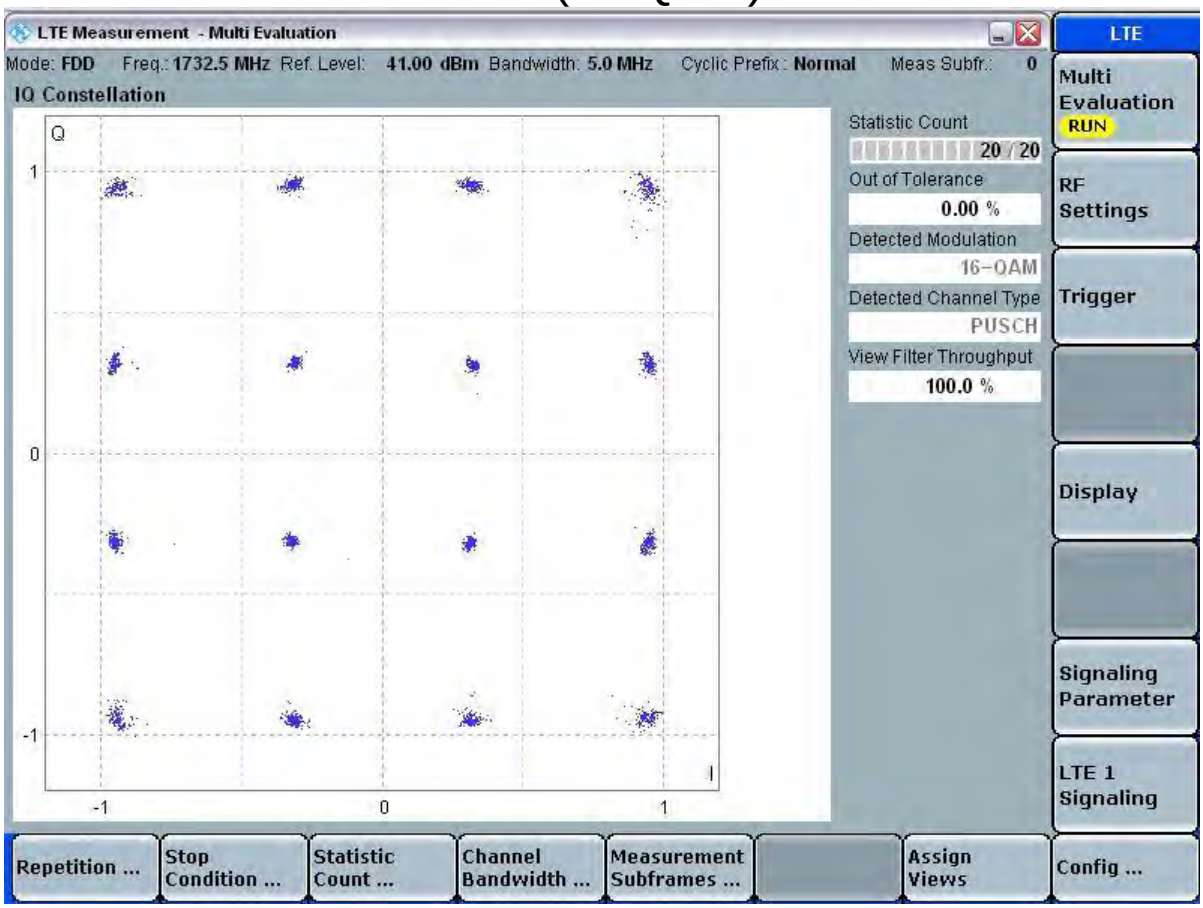
Channel 20175(TM5)
3MHz(16-QAM)



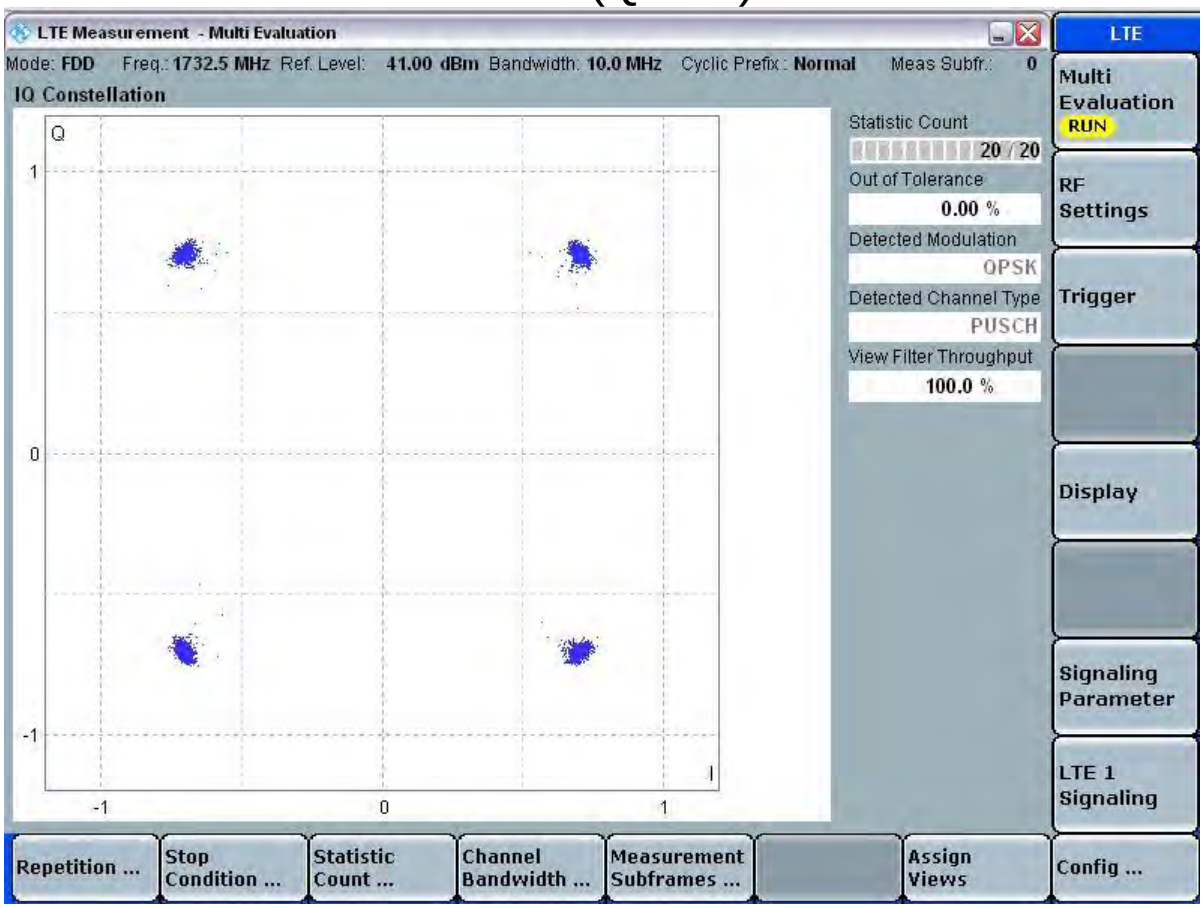
Channel 20175(TM4)
5MHz(QPSK)



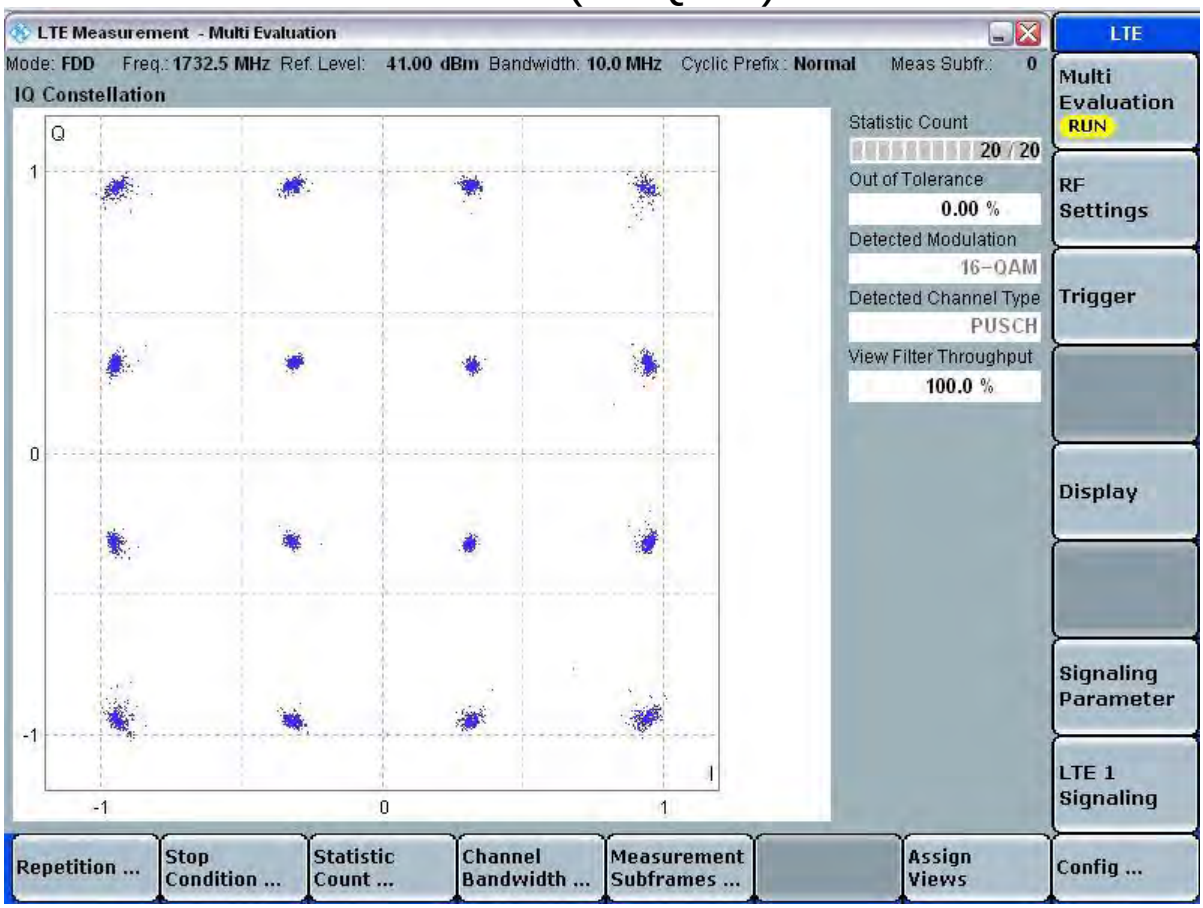
Channel 20175(TM5)
5MHz(16-QAM)



Channel 20175(TM4)
10MHz(QPSK)



Channel 20175(TM5)
10MHz(16-QAM)

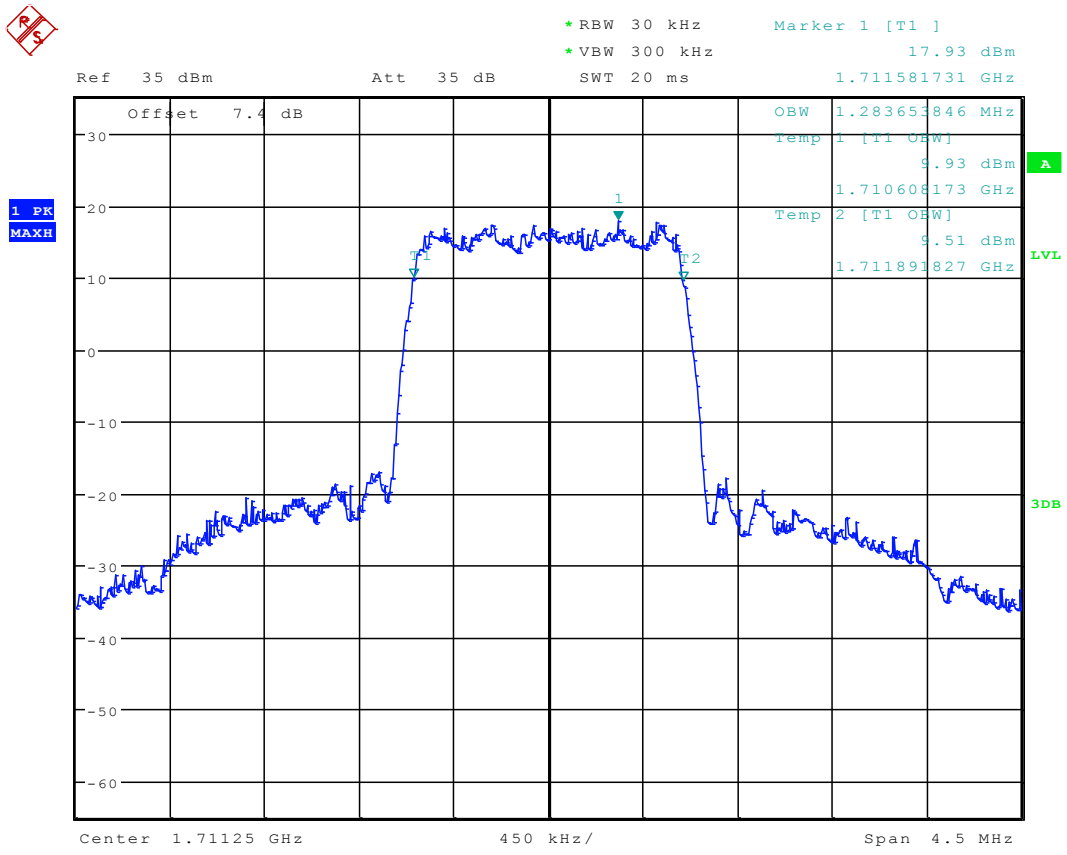


Appendix B

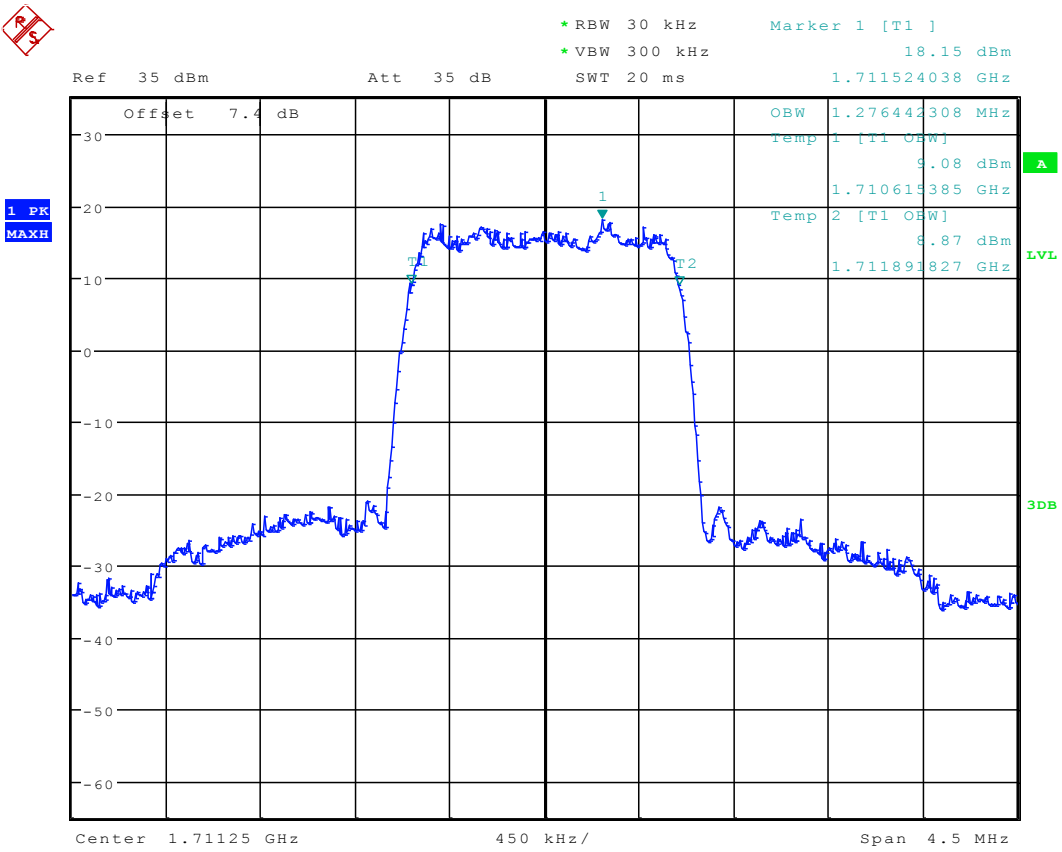
Occupied Bandwidth

According to FCC Part 2.1047 & Part27 Subpart C&L

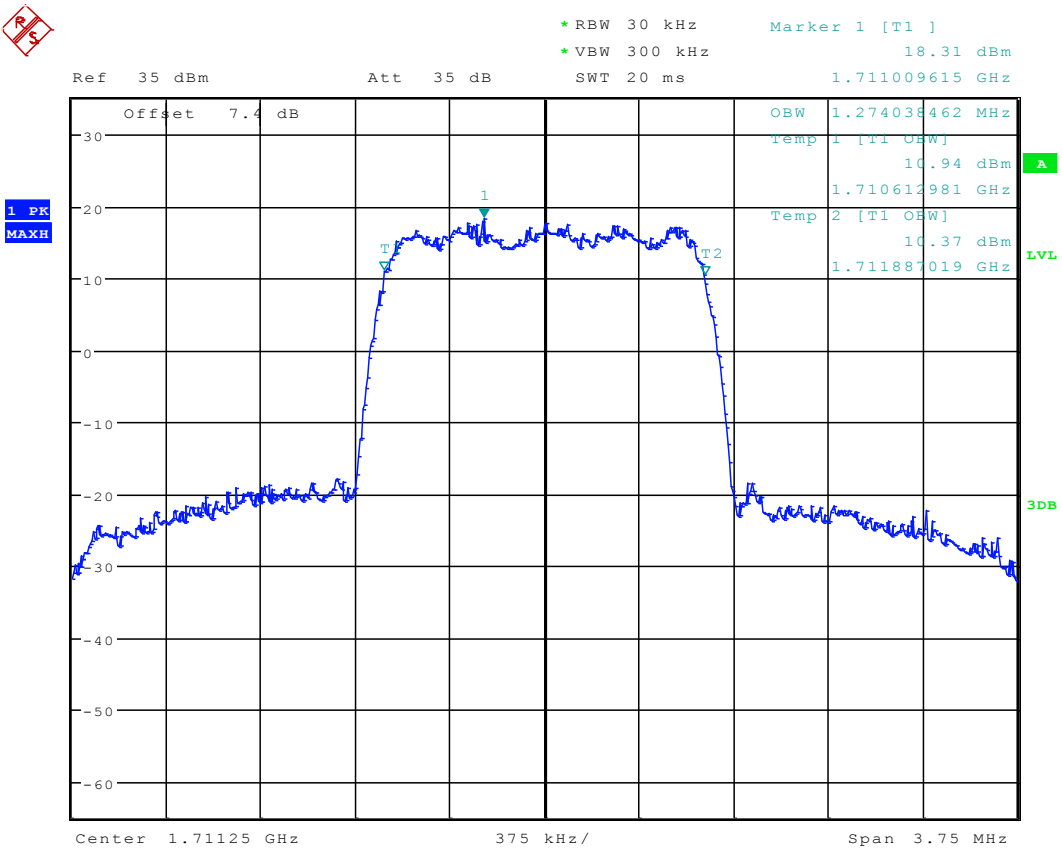
Channel 25（TM1）



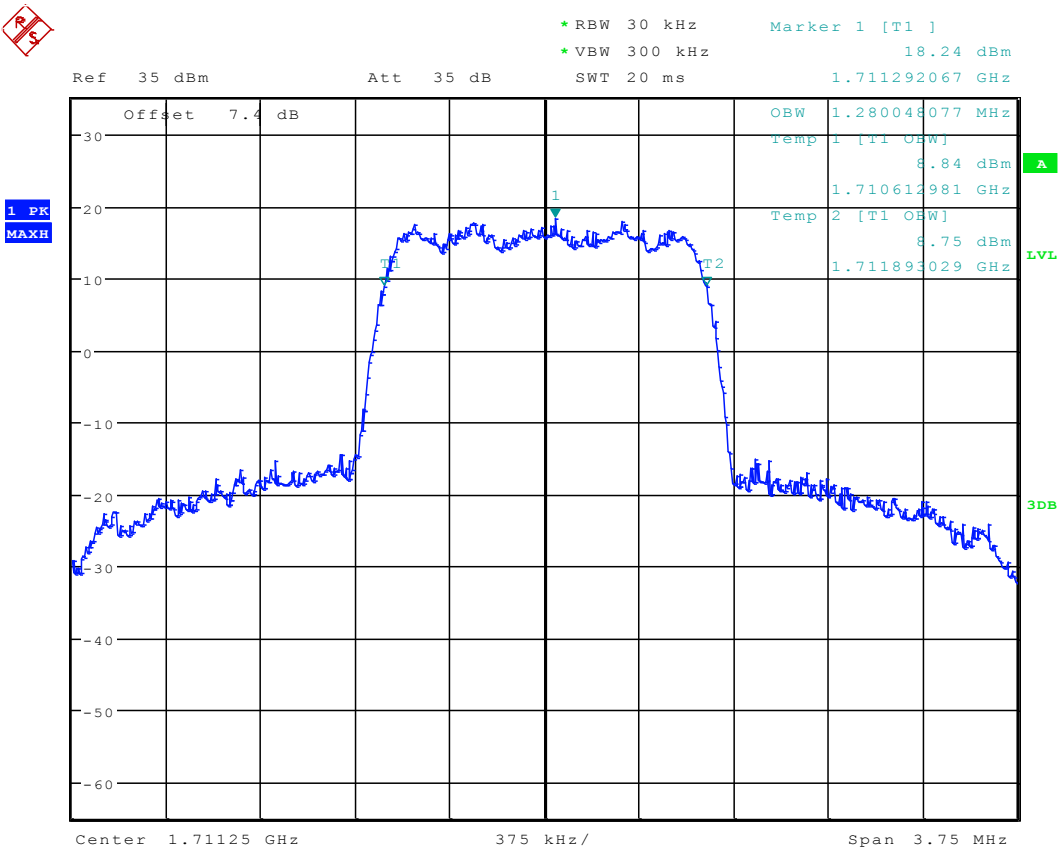
Channel 25（TM3）



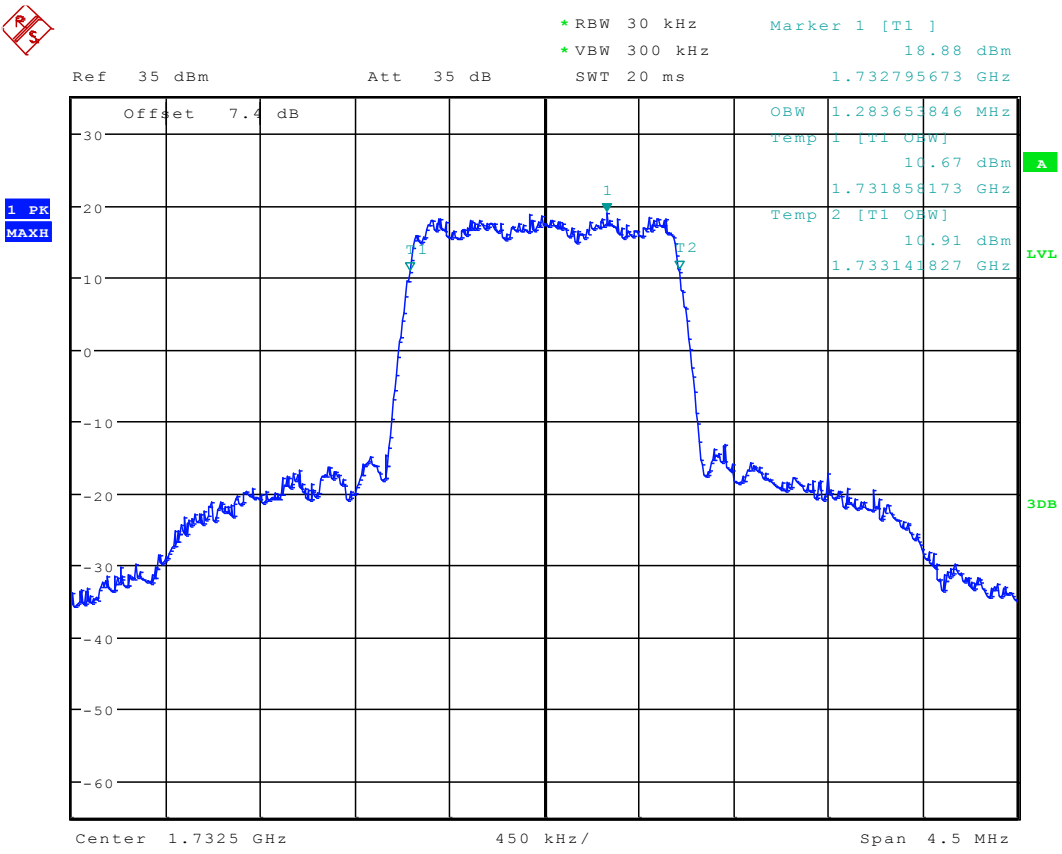
Channel 25（EVDO subtype 0）



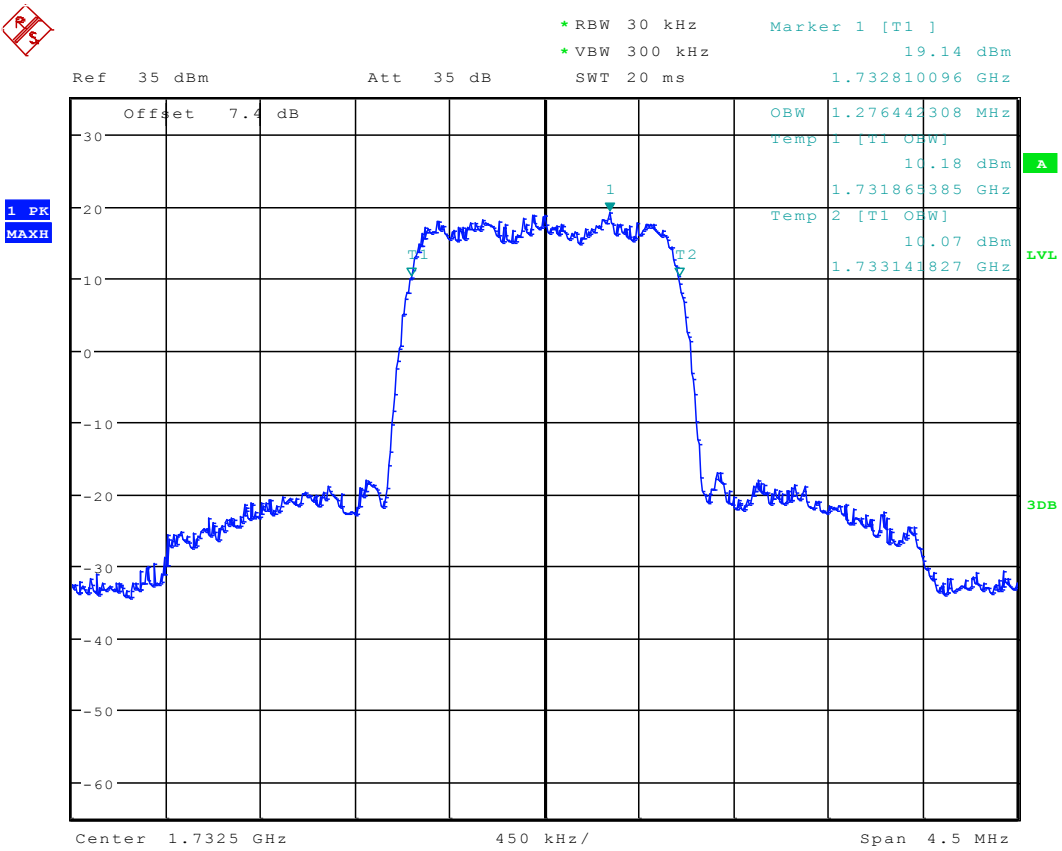
Channel 25（EVDO subtype 2）



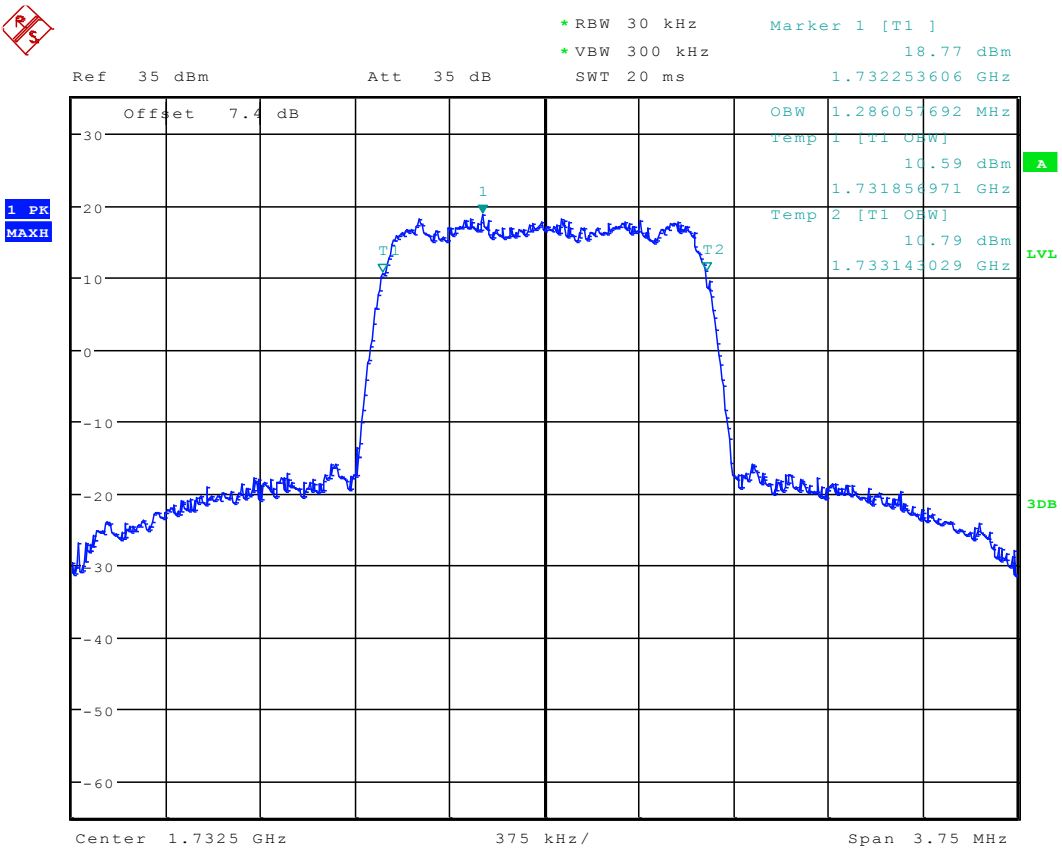
Channel 450（TM1）



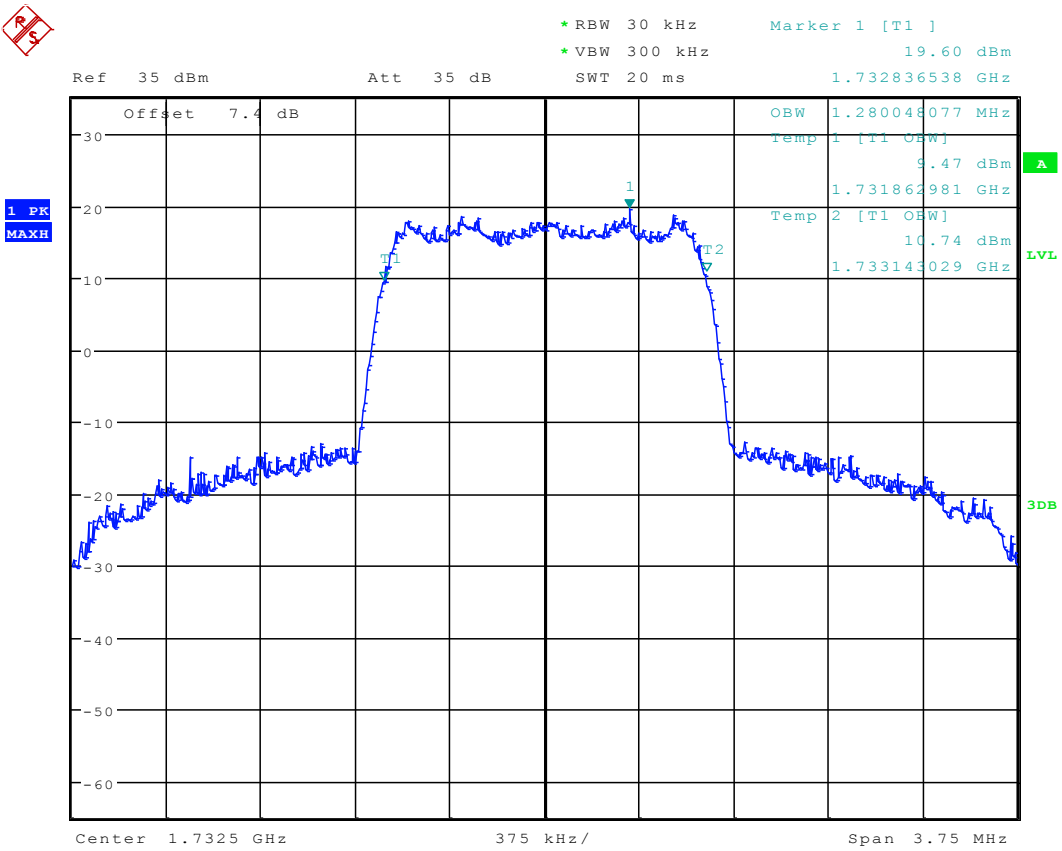
Channel 450（TM3）



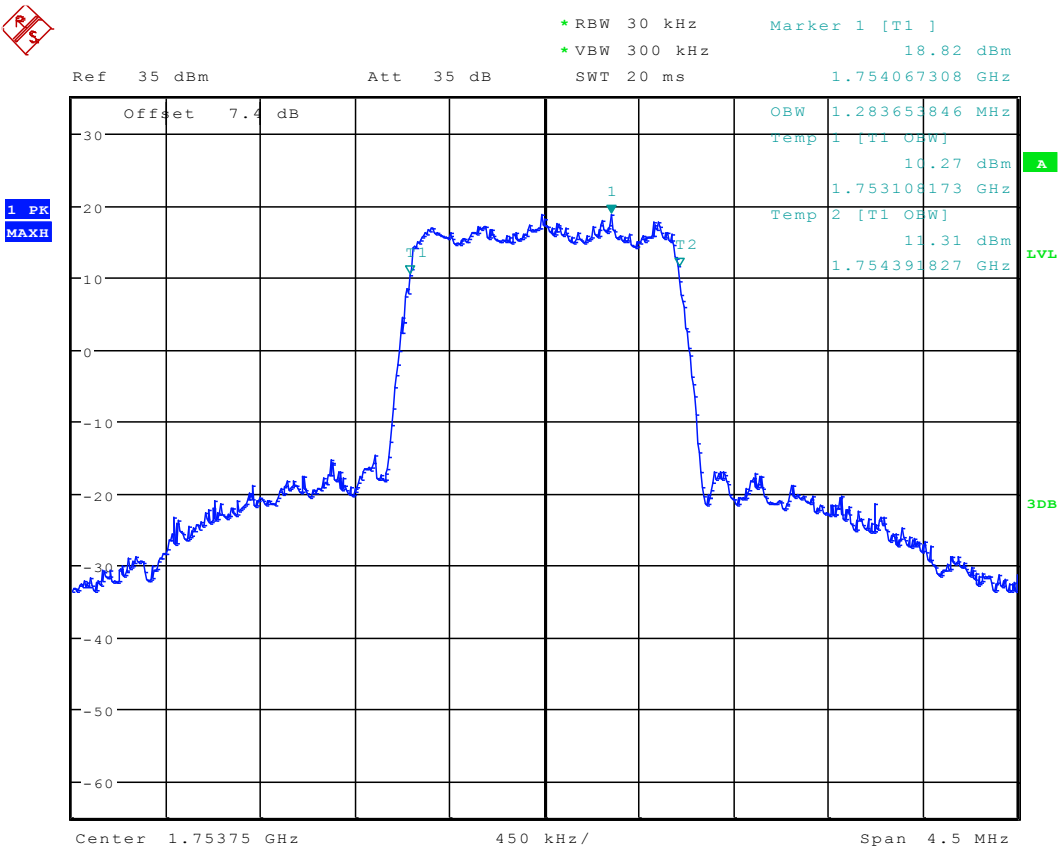
Channel 450（EVDO release 0）



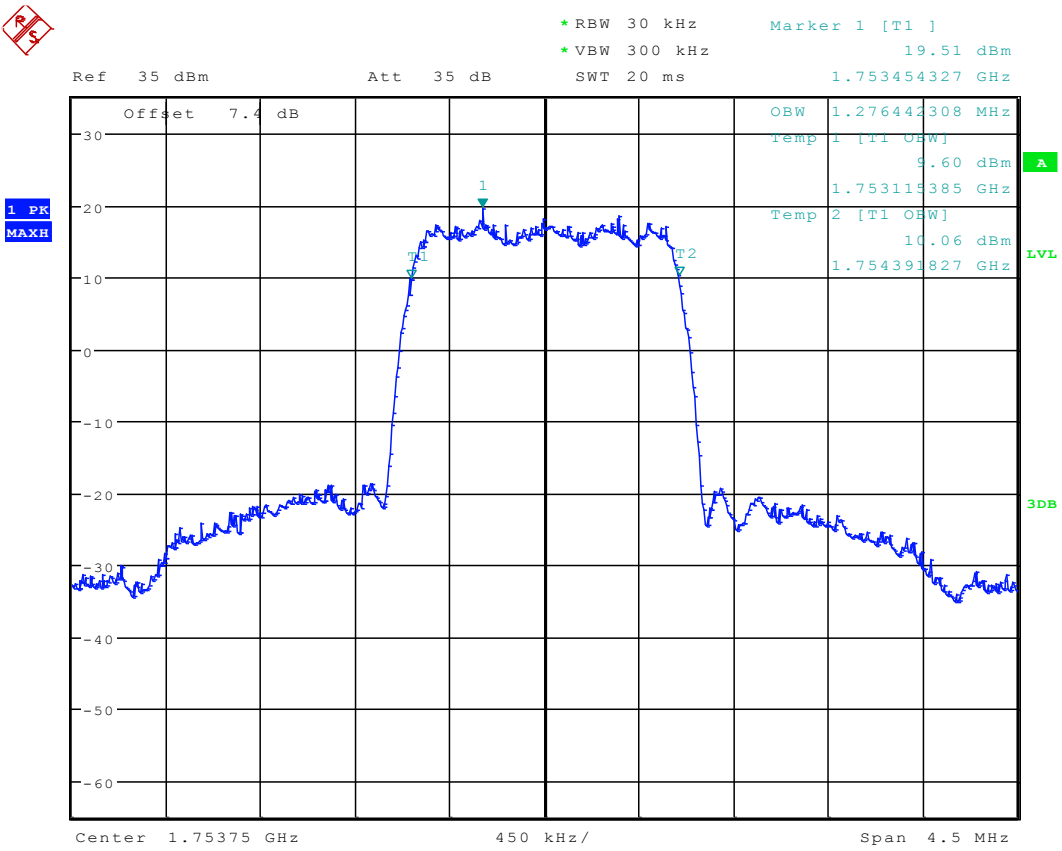
Channel 450（EVDO subtype 2）



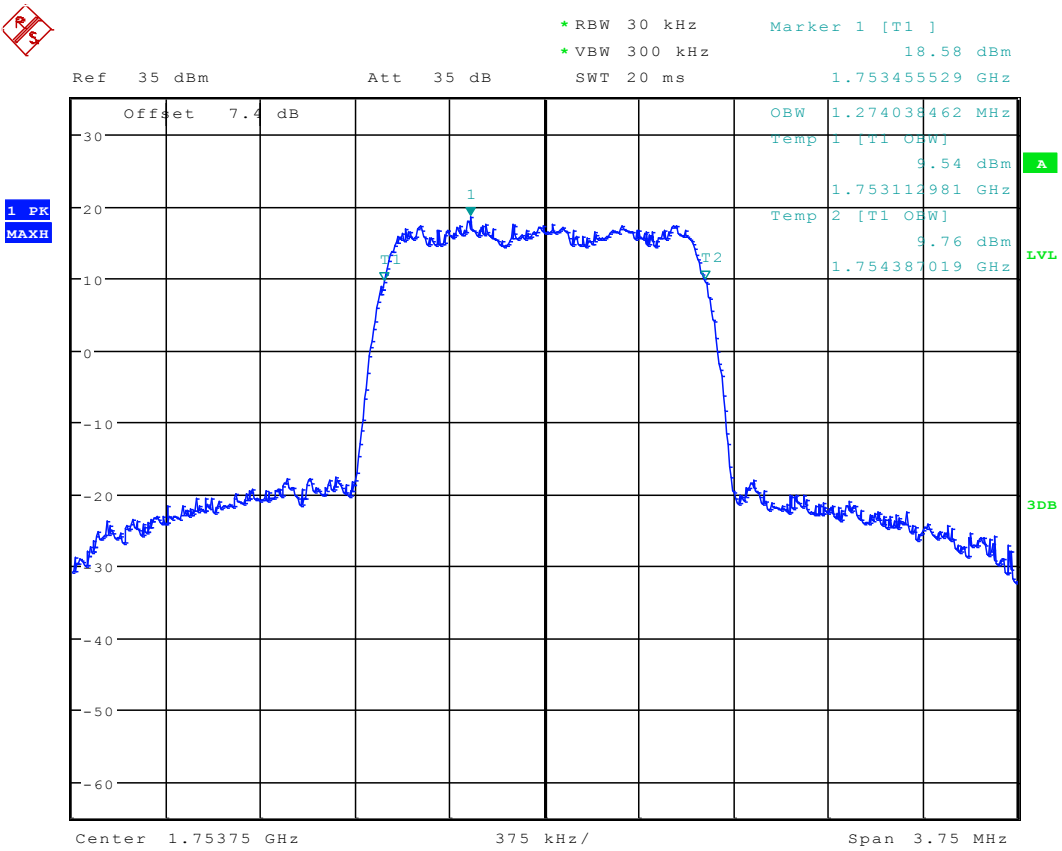
Channel 875（TM1）



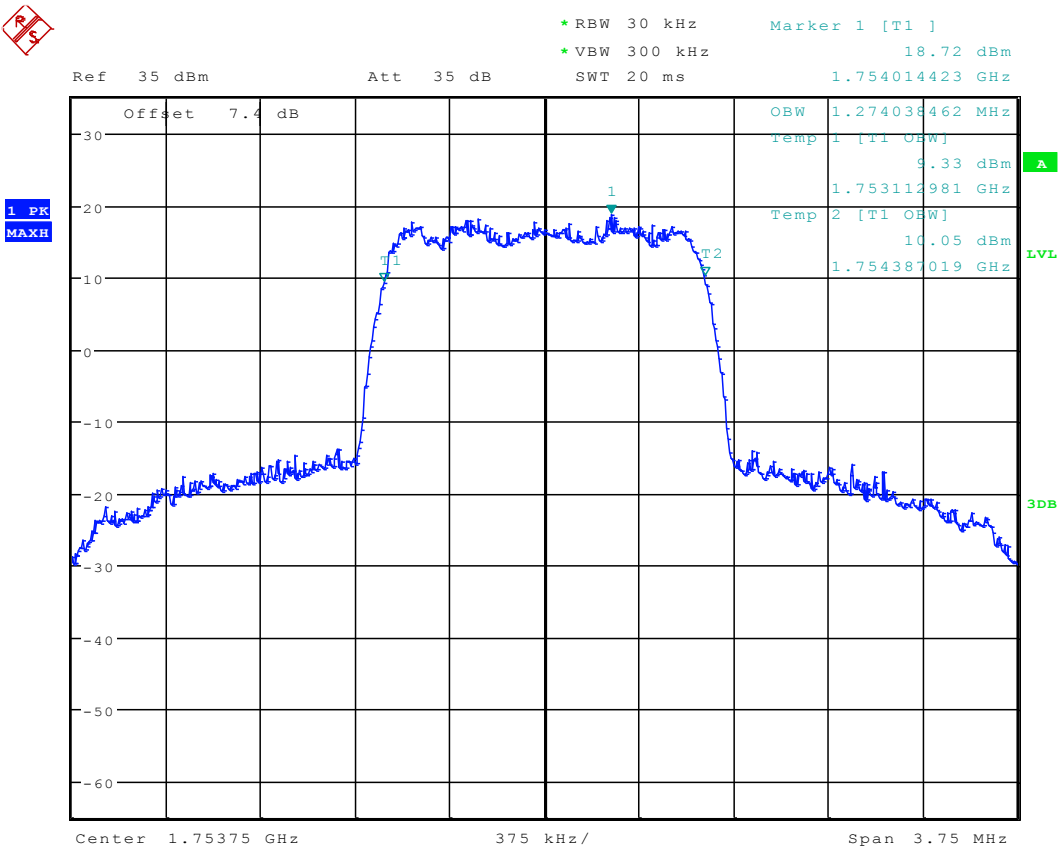
Channel 875（TM3）



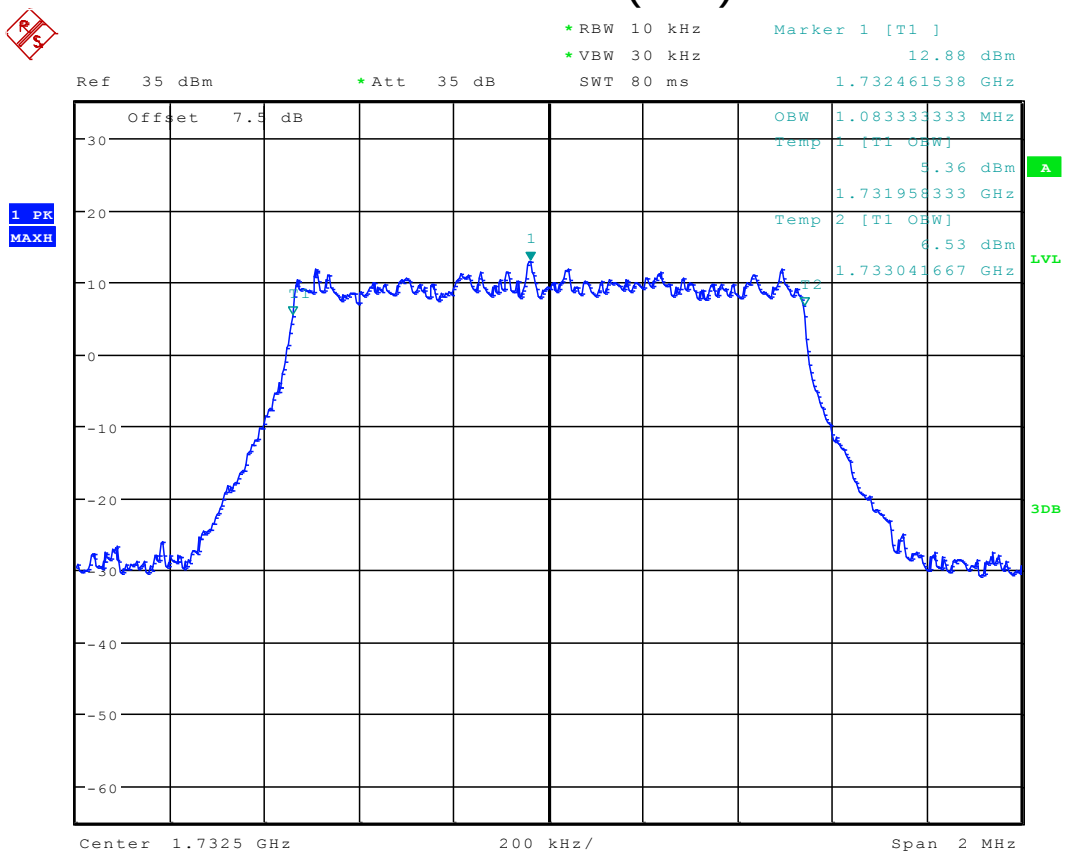
Channel 875（EVDO subtype 0）



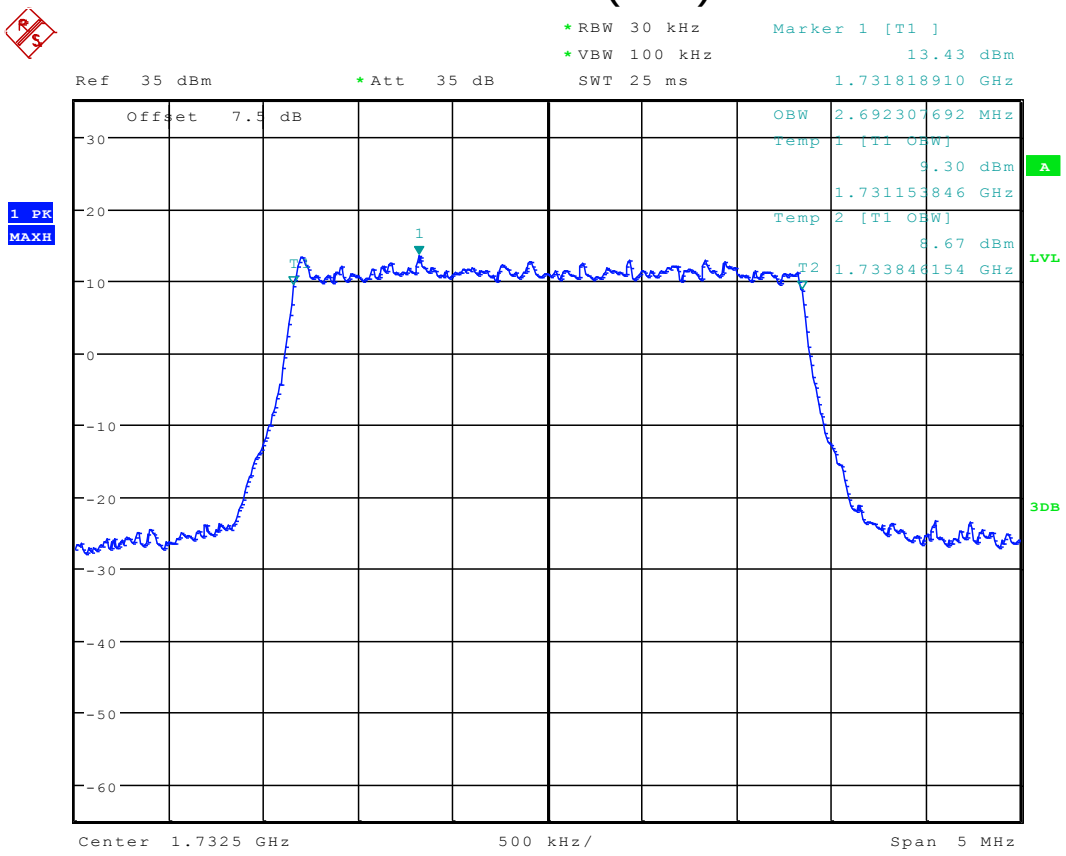
Channel 875（EVDO subtype 2）



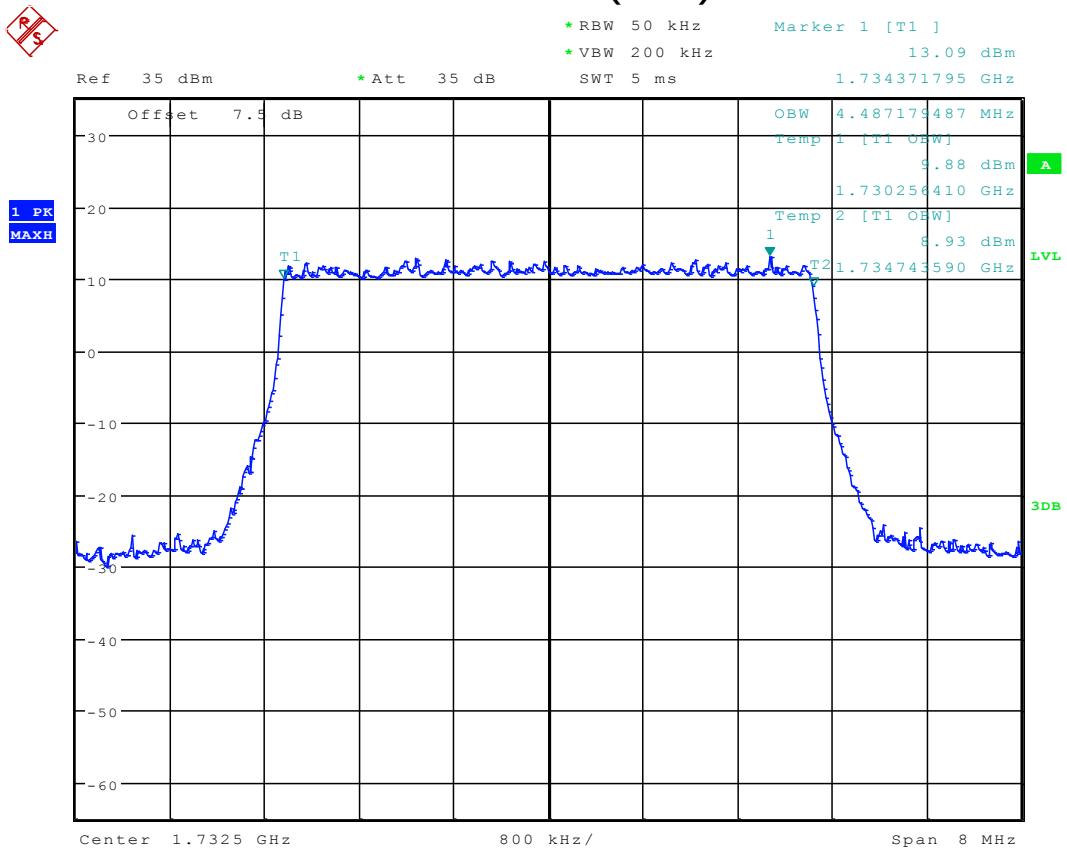
Channel 20175(TM4)
1.4MHz(BW)



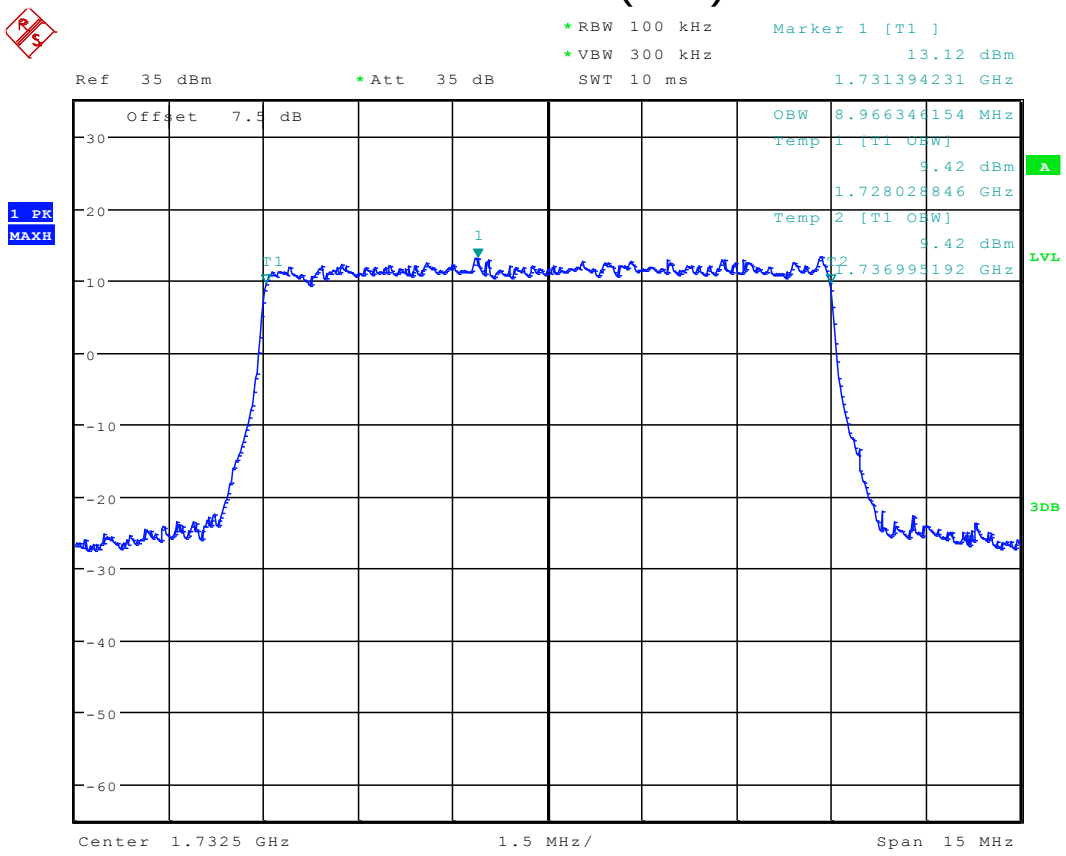
Channel 20175(TM4)
3MHz(BW)



Channel 20175(TM4)
5MHz(BW)



Channel 20175(TM4)
10MHz(BW)

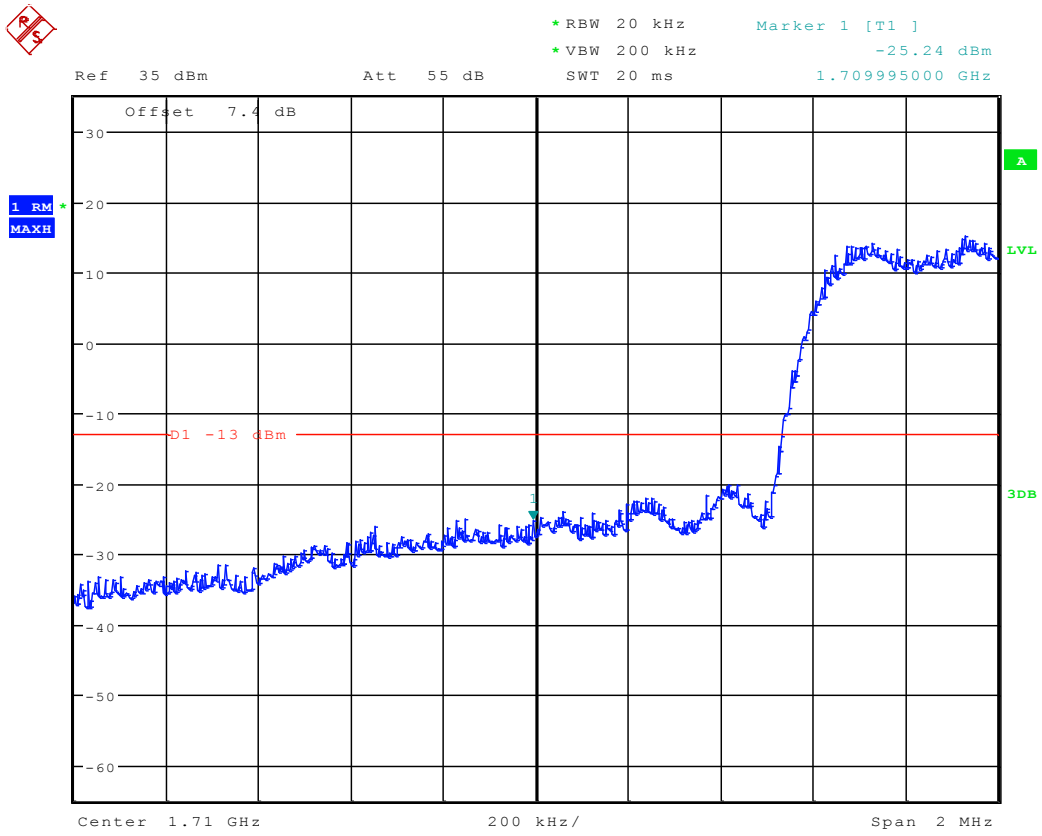


Appendix C

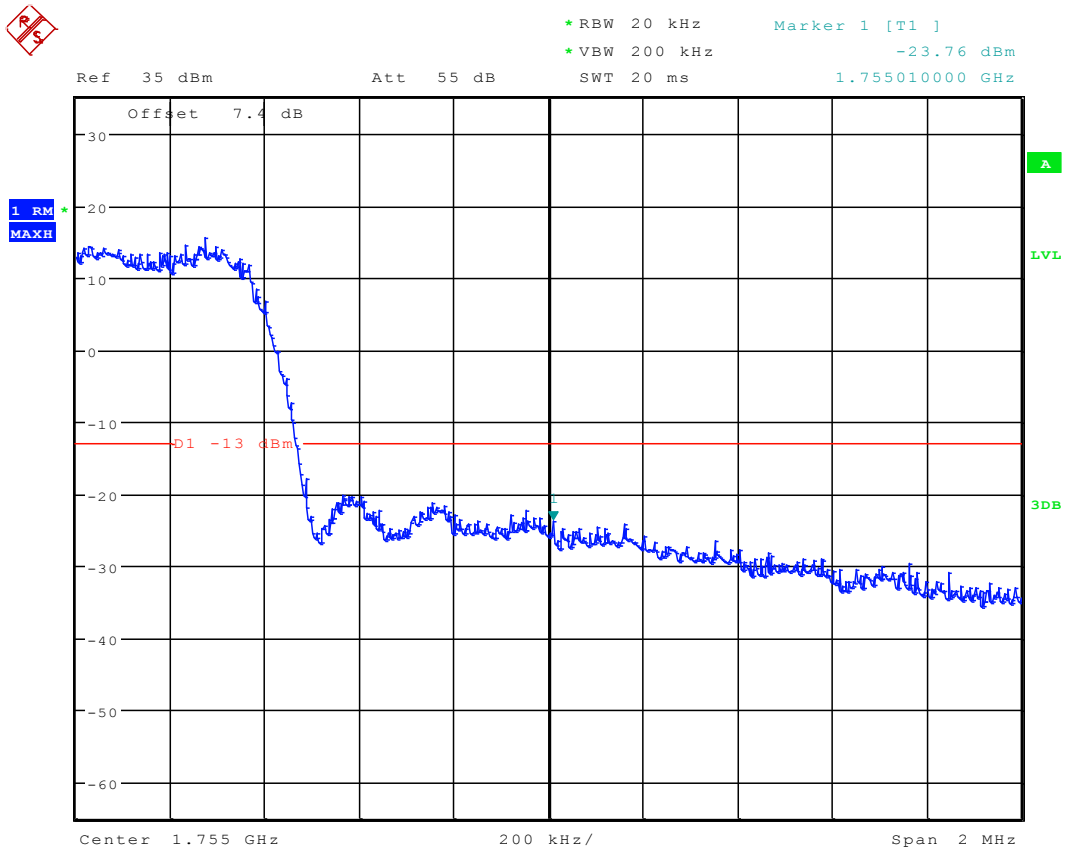
Band Edges Compliance

According to FCC Part 2.1051 & 27.53(g)

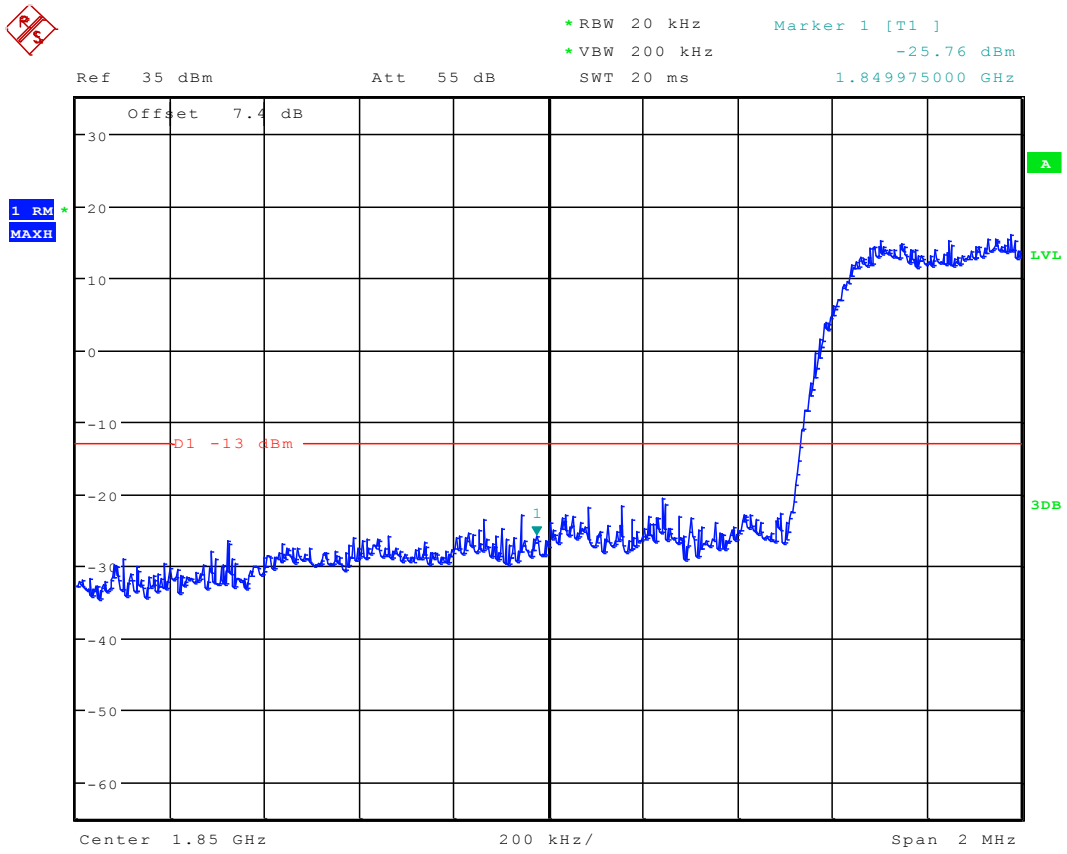
TM1
Left Edge
Channel 25



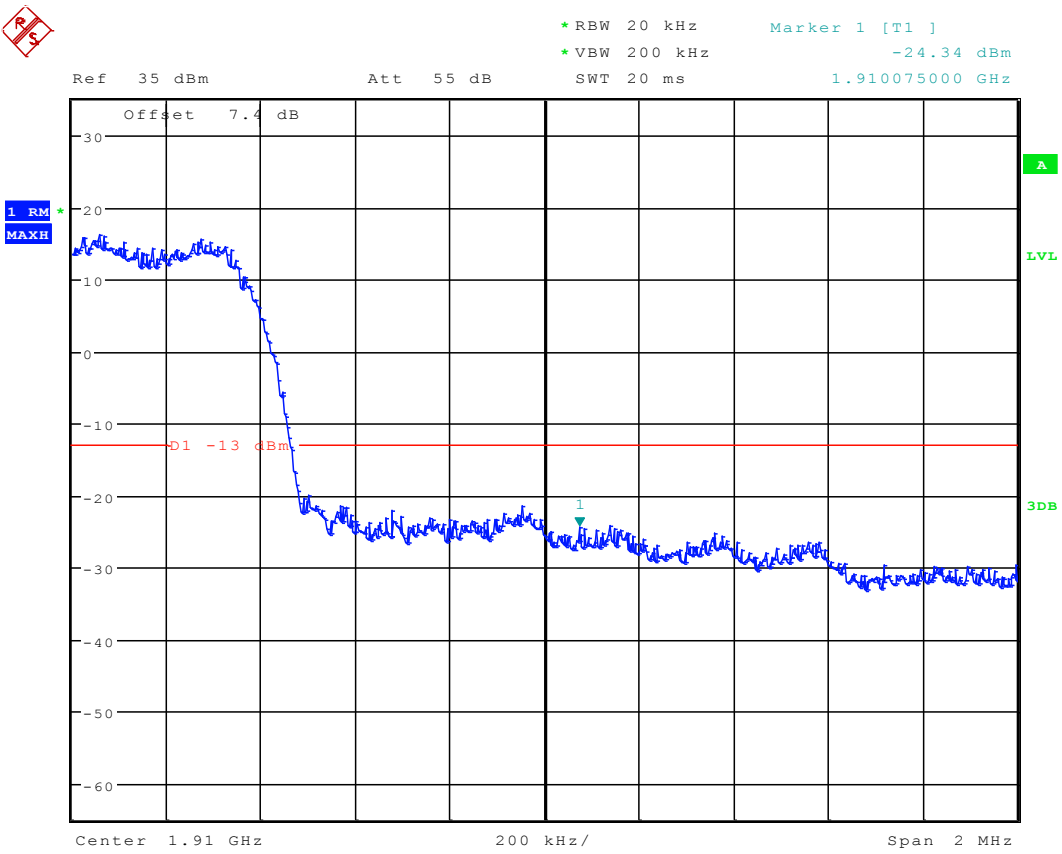
Right Edge
Channel 875



TM3
Left Edge
Channel 25

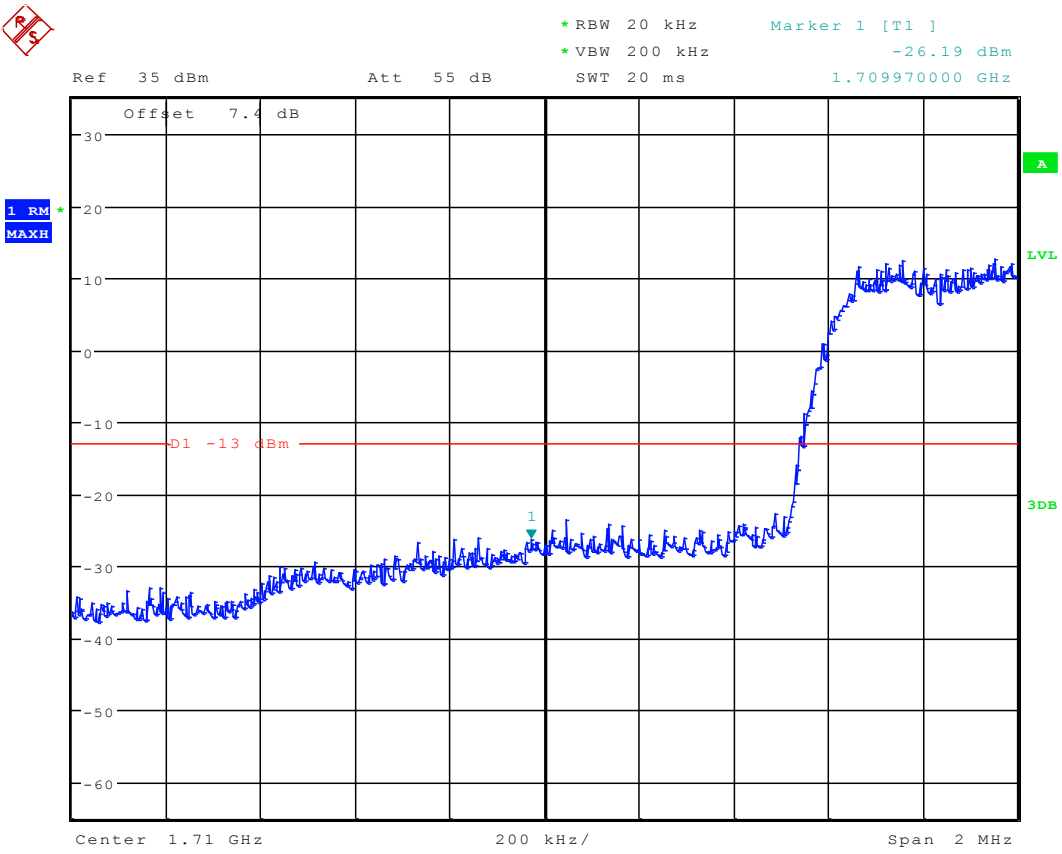


Right Edge
Channel 875

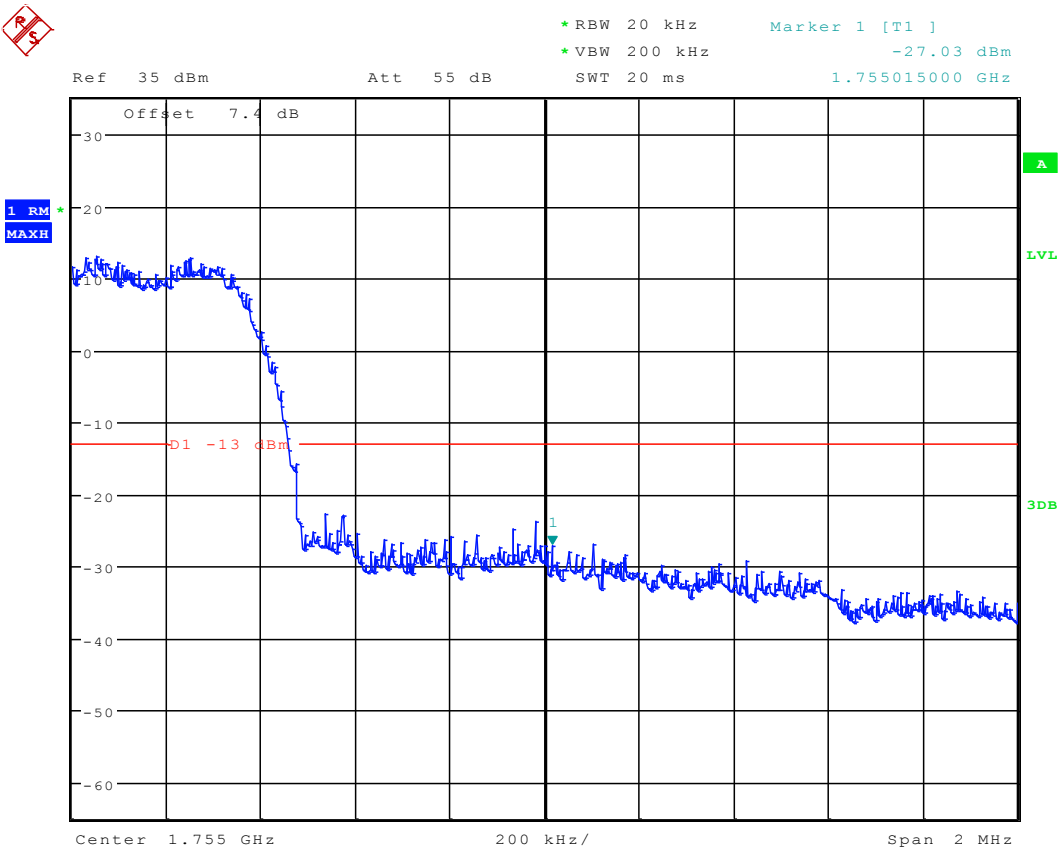


EVDO Subtype 0

Left Edge
Channel 25



Right Edge
Channel 875

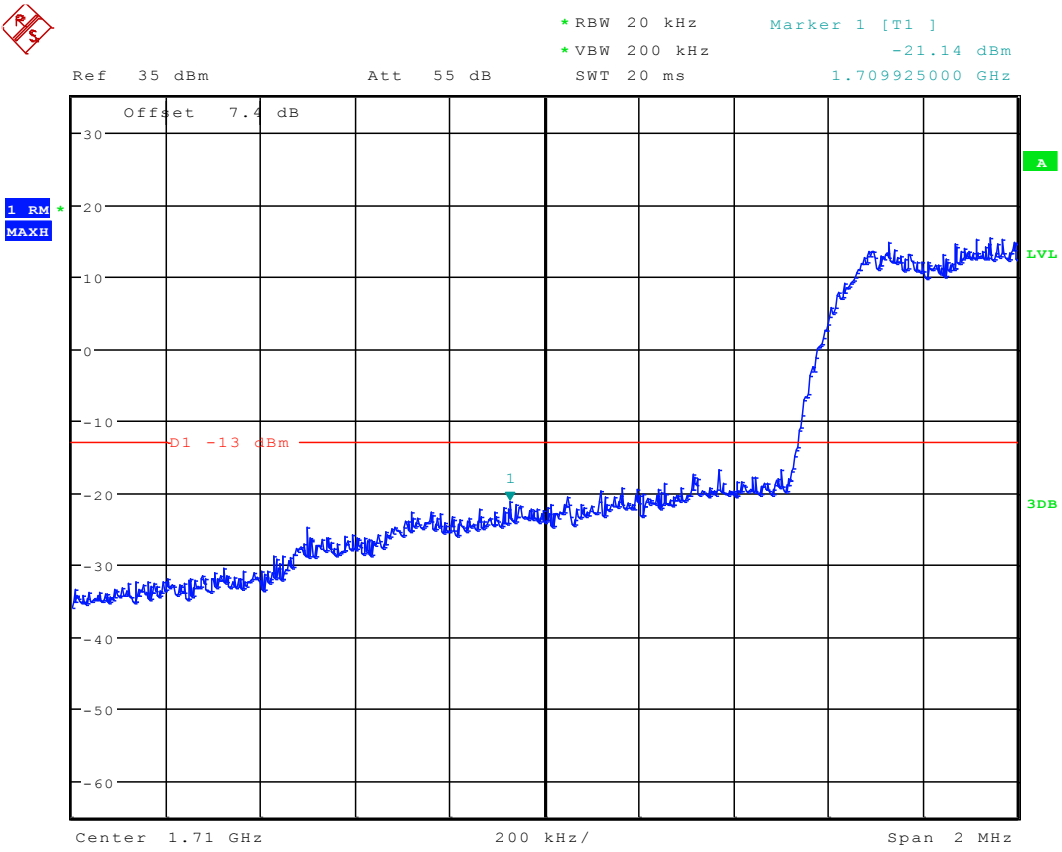


EVDO Subtype 2

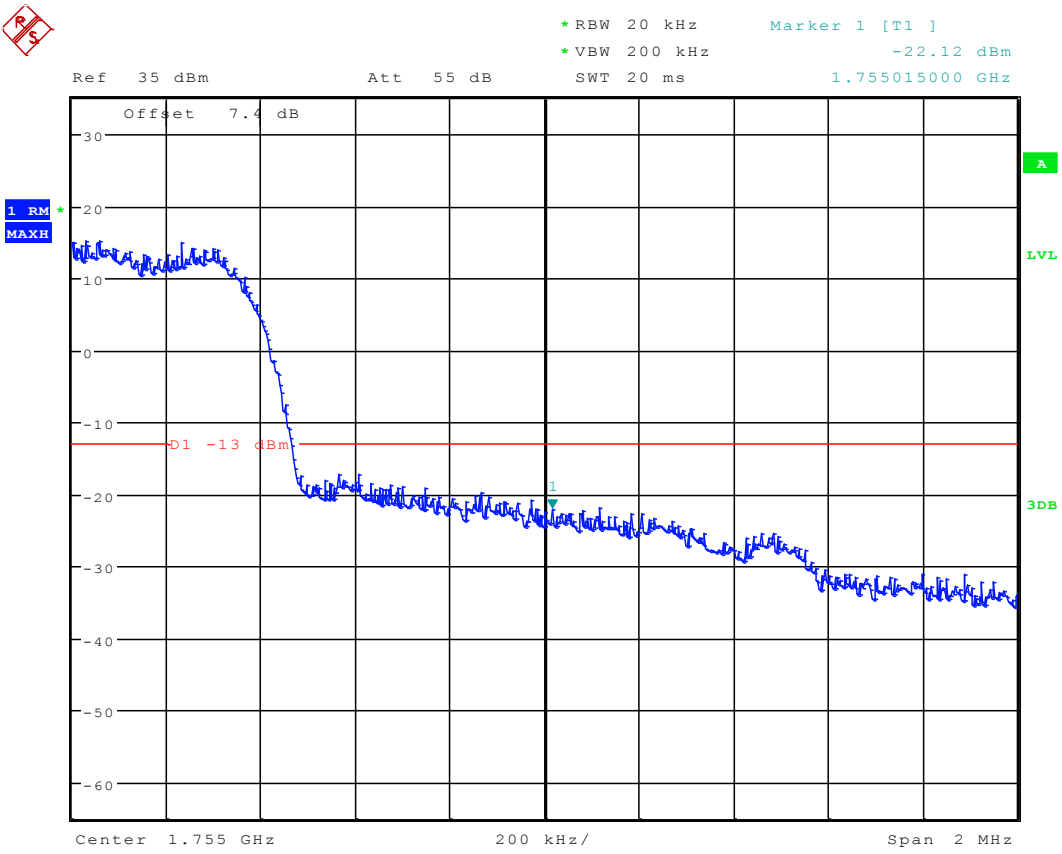
Modulation:BPSK

Left Edge

Channel 25



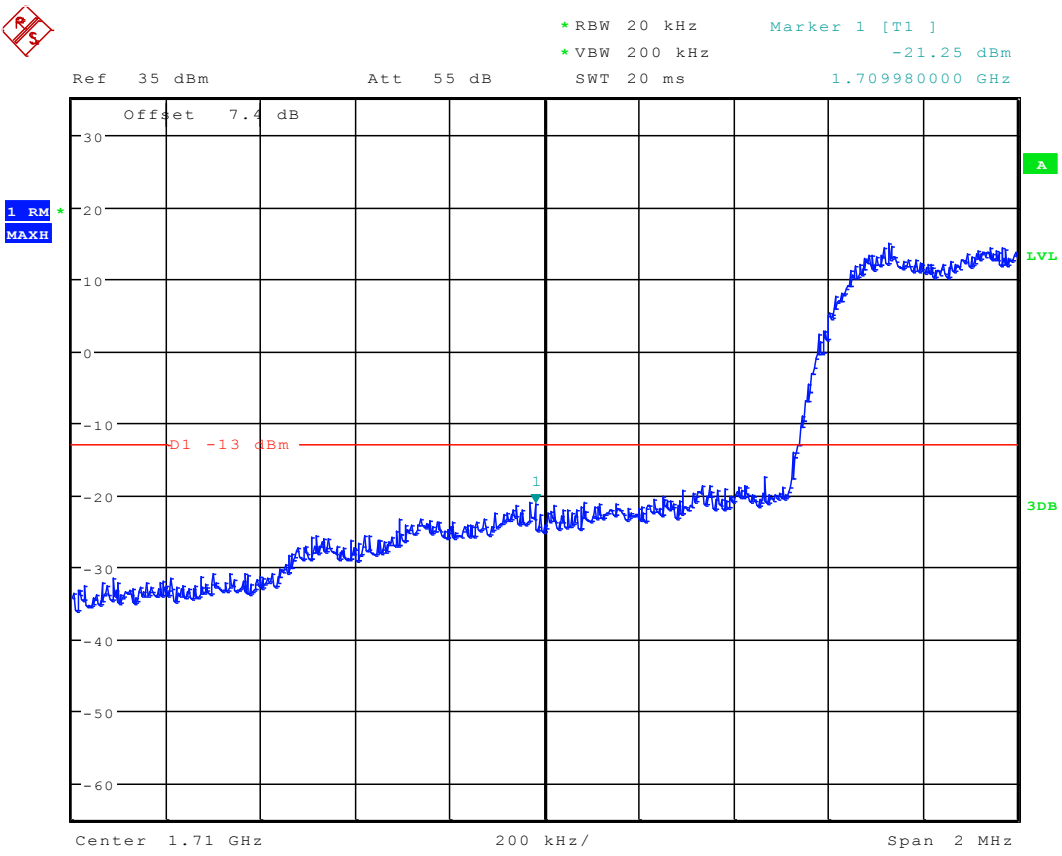
Right Edge
Channel 875



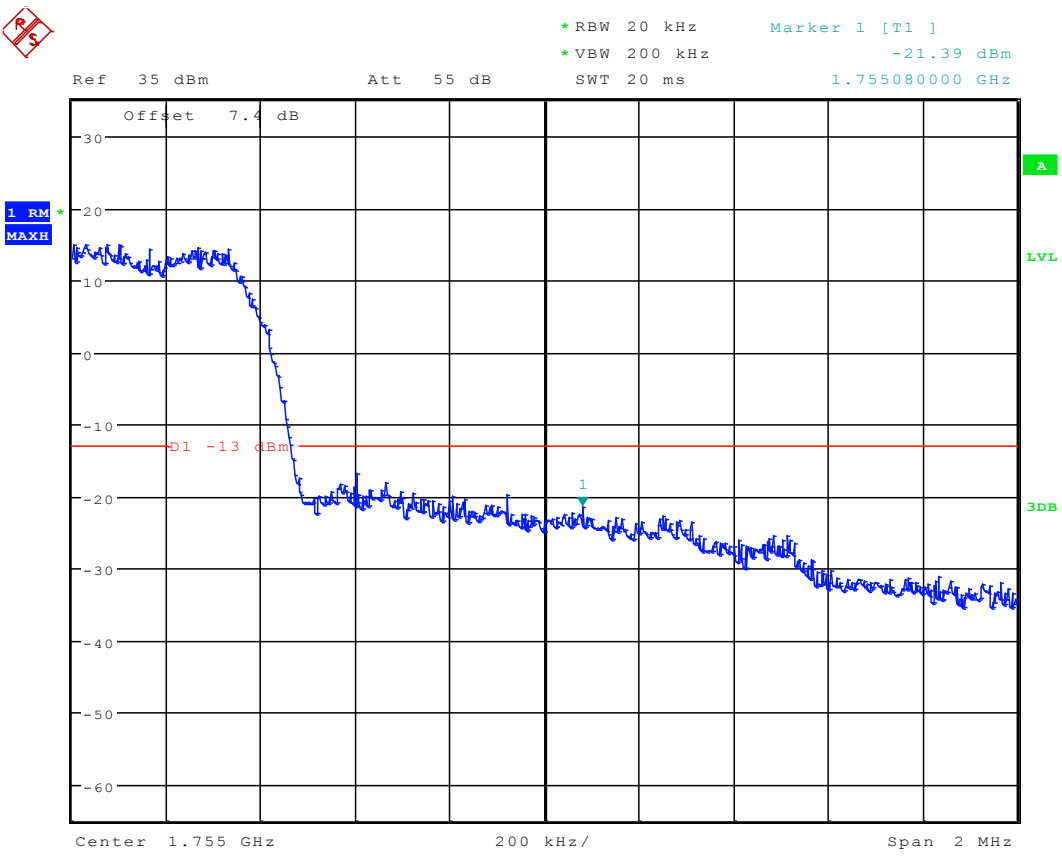
Modulation：QPSK

Left Edge

Channel 25

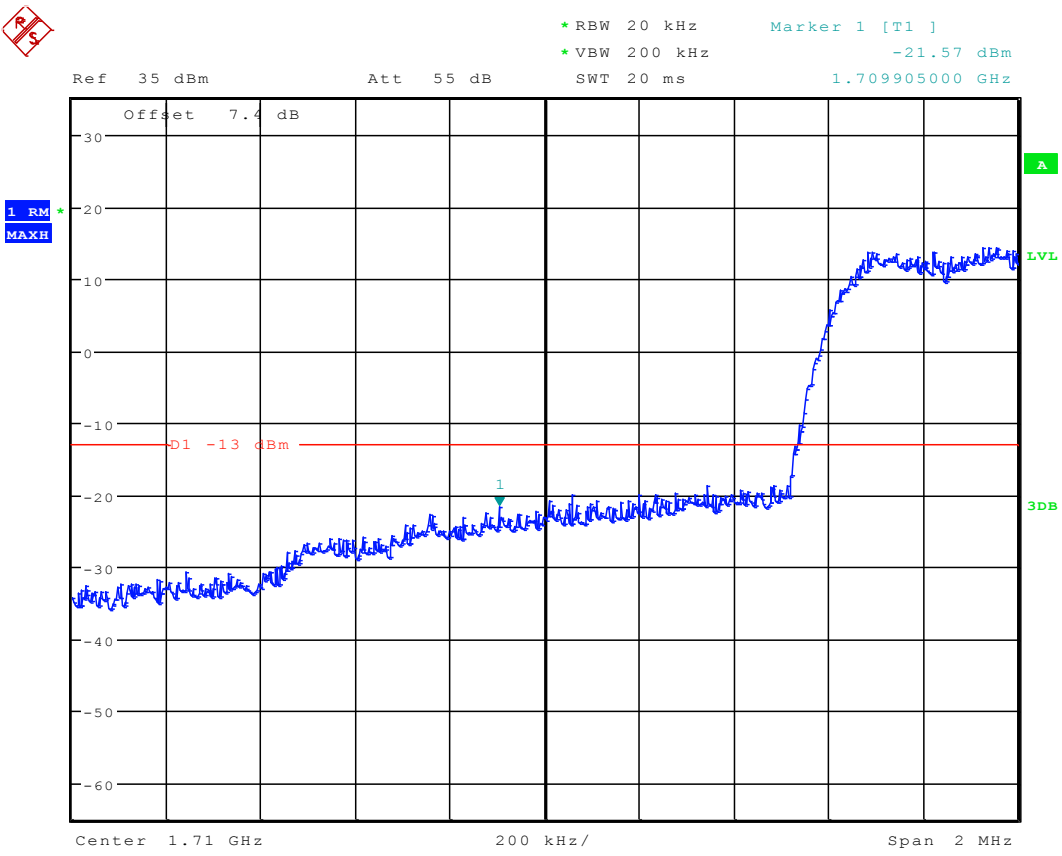


Right Edge
Channel 875

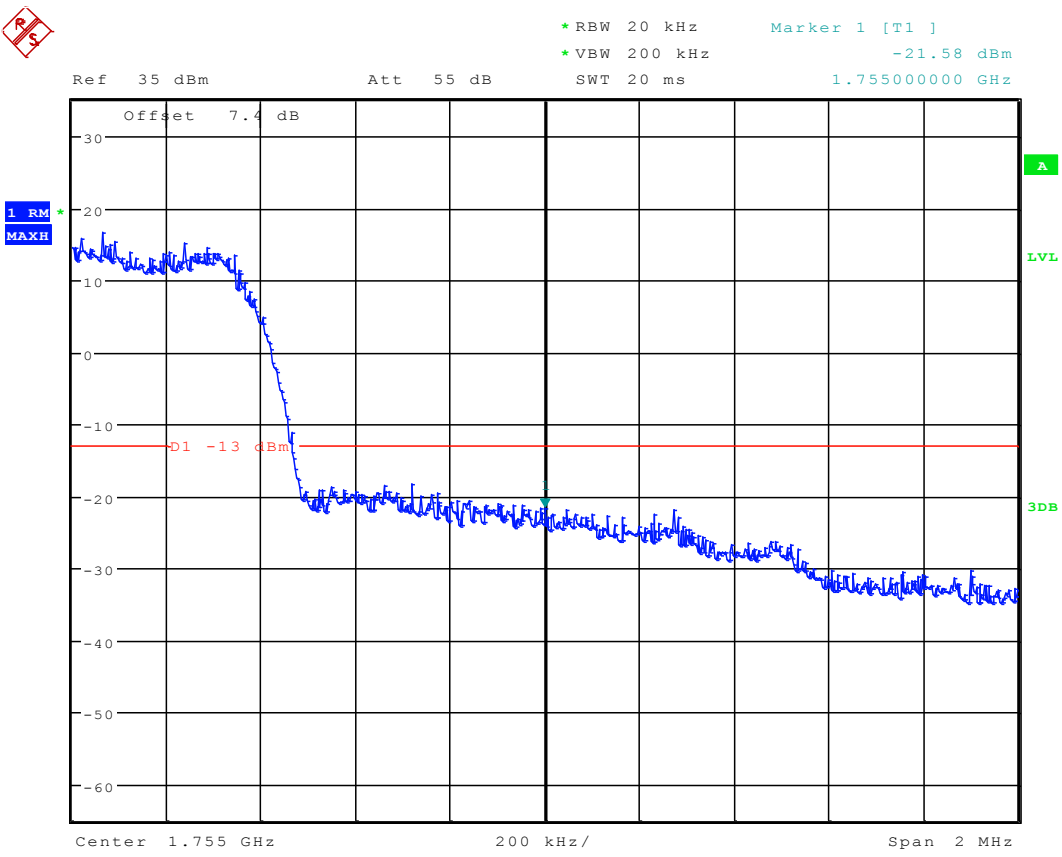


Modulation：8PSK

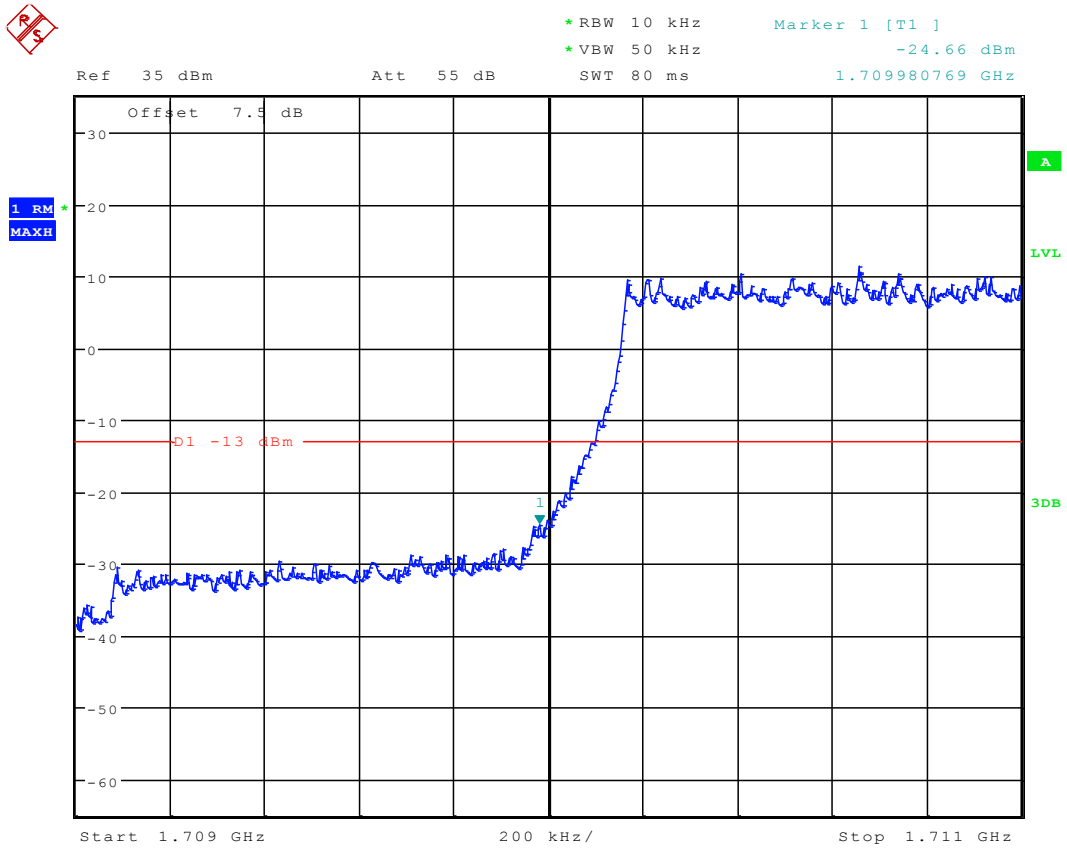
Left Edge
Channel 25



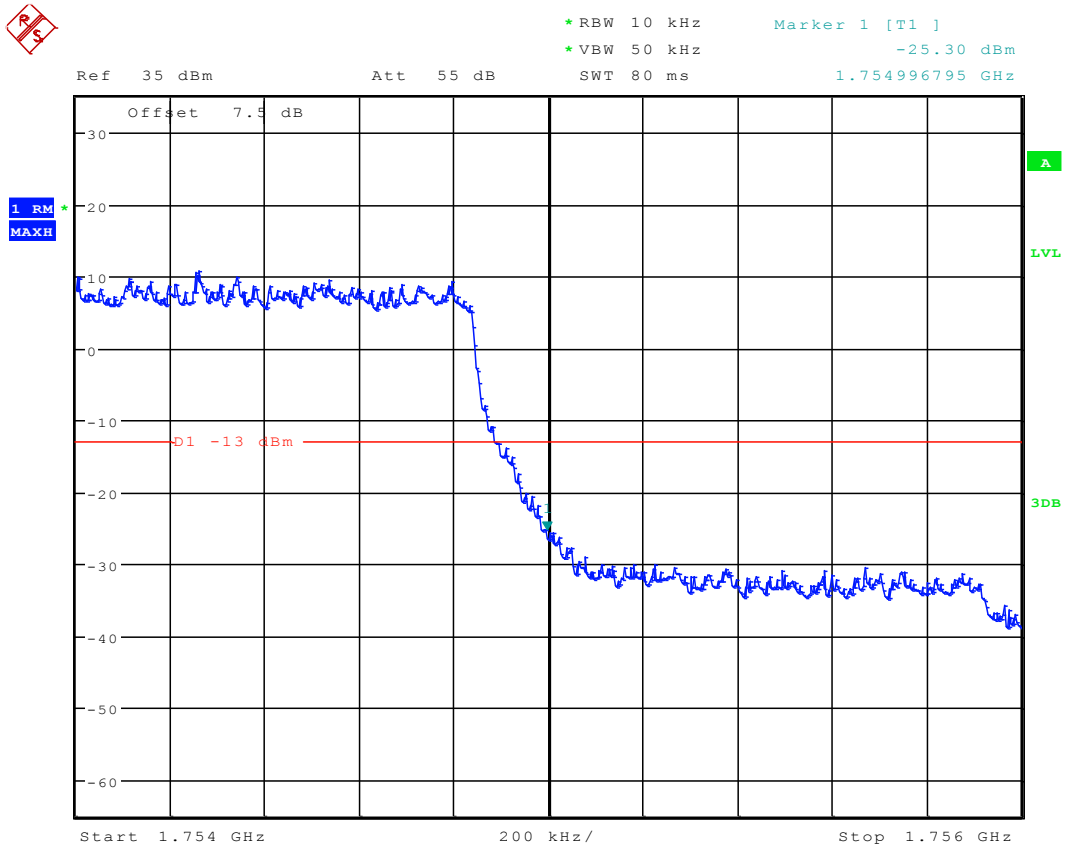
Right Edge
Channel 875



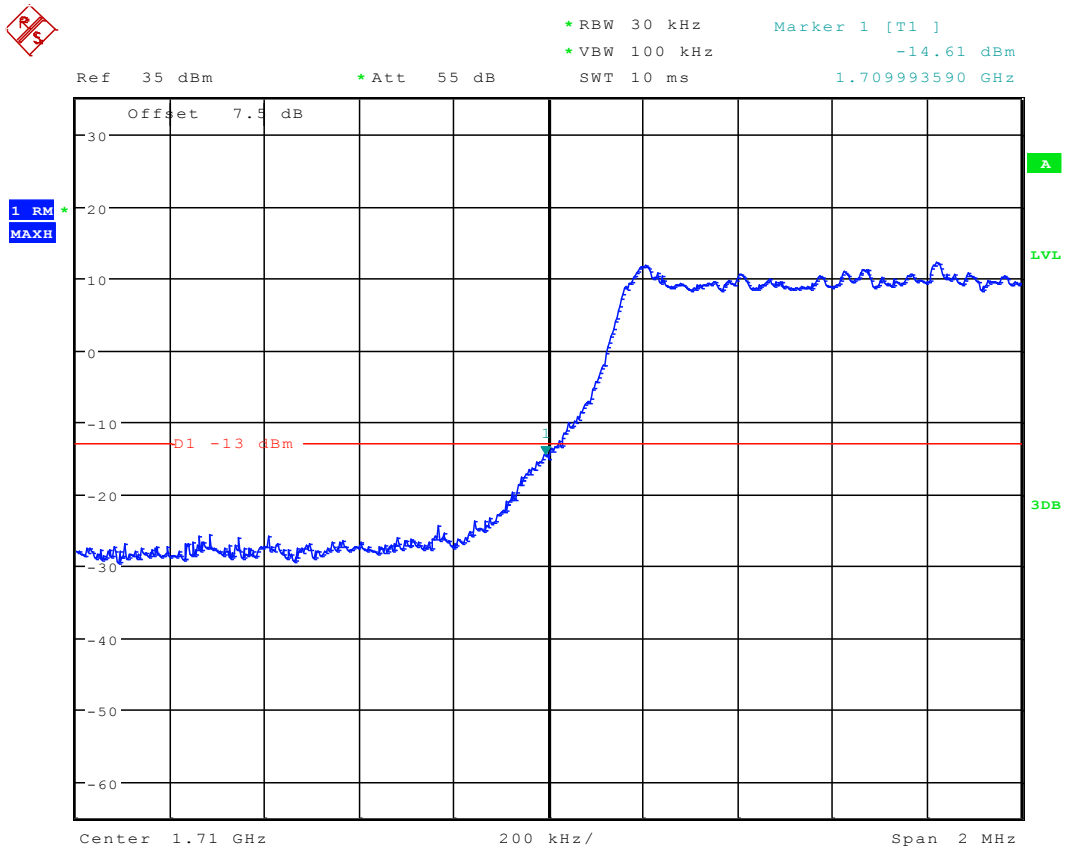
TM4
Left Edge
1.4MHz(BW)
Channel 19957



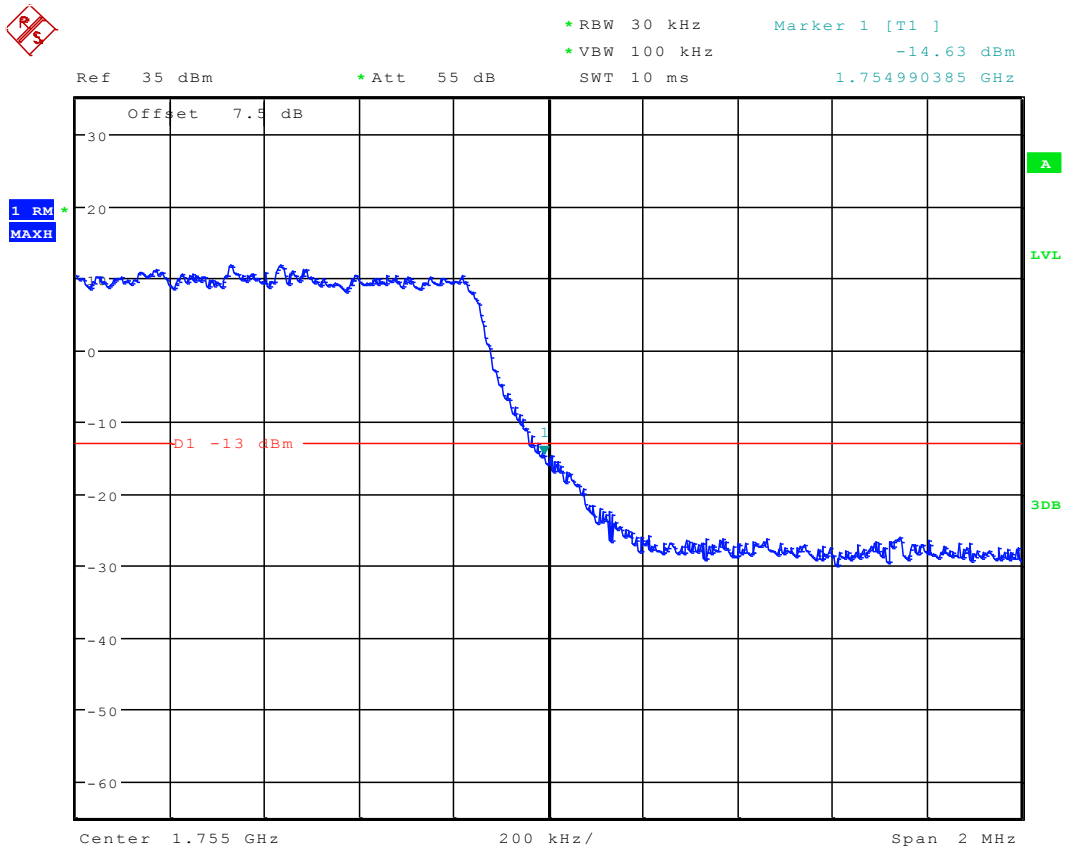
Right Edge
1.4MHz(BW)
Channel 20393



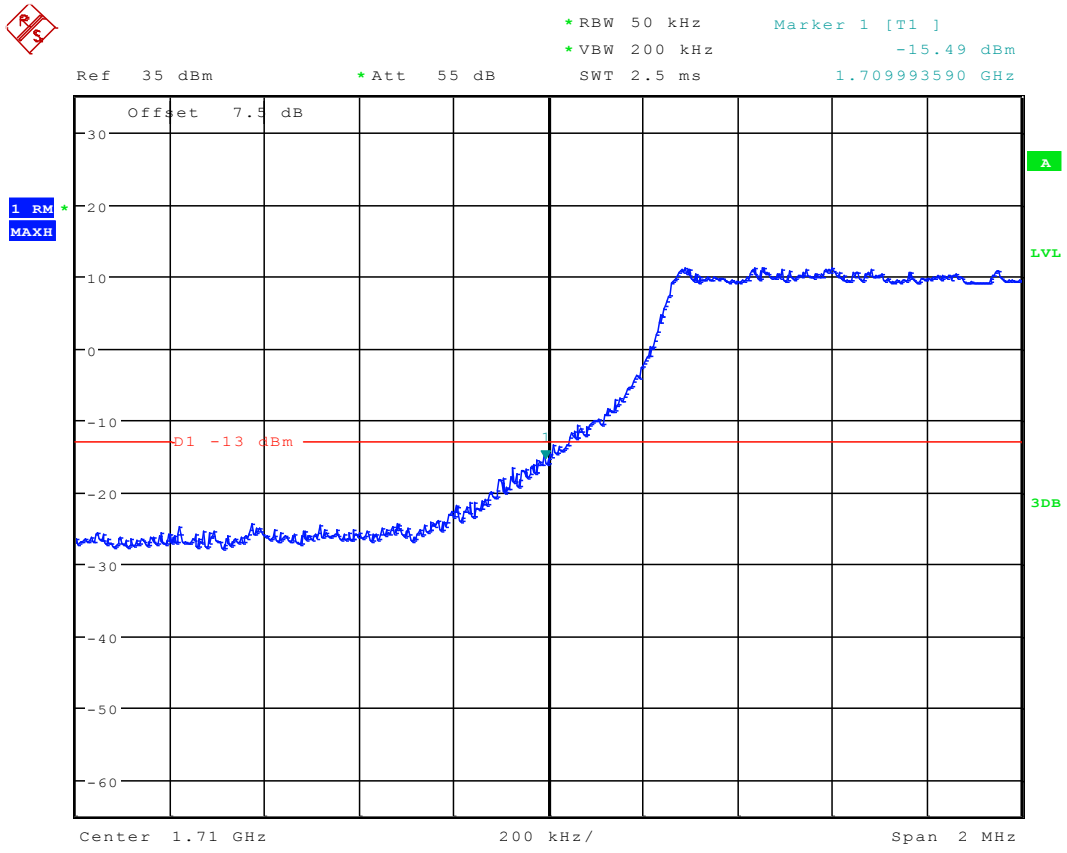
Left Edge
3MHz(BW)
Channel 19965



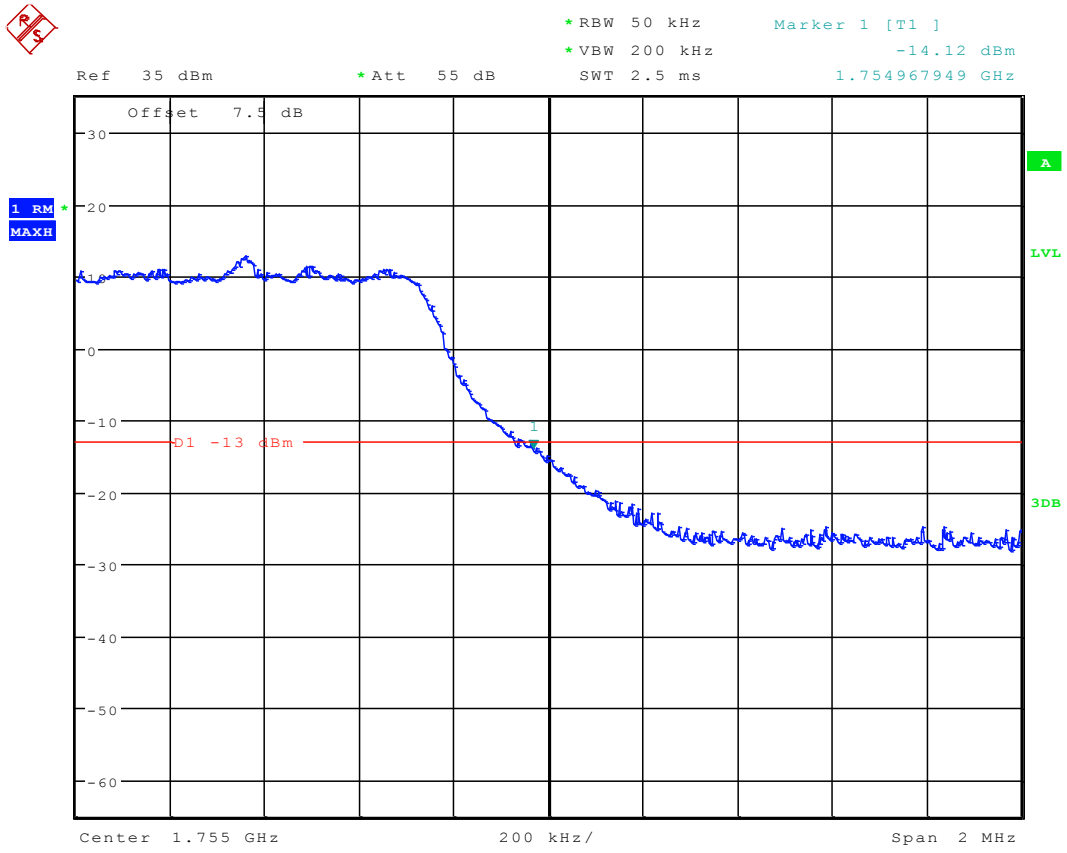
Right Edge
3MHz(BW)
Channel 20385



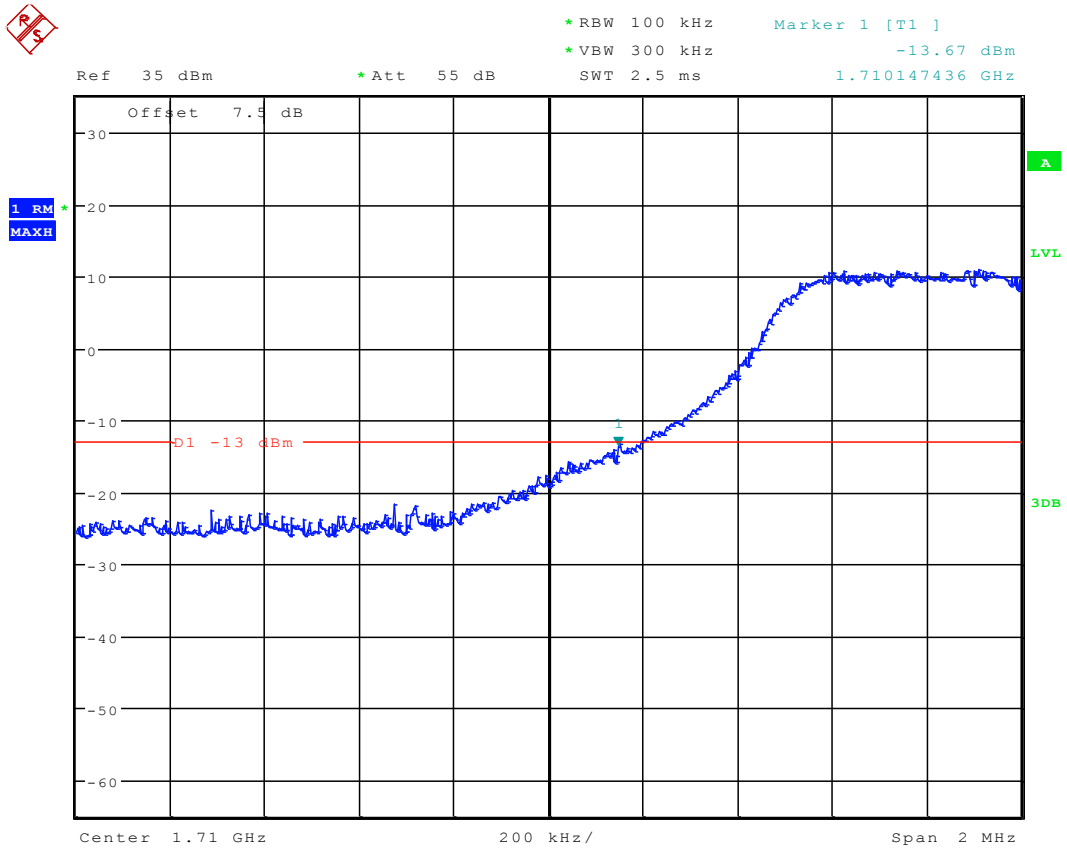
Left Edge
5MHz(BW)
Channel 19975



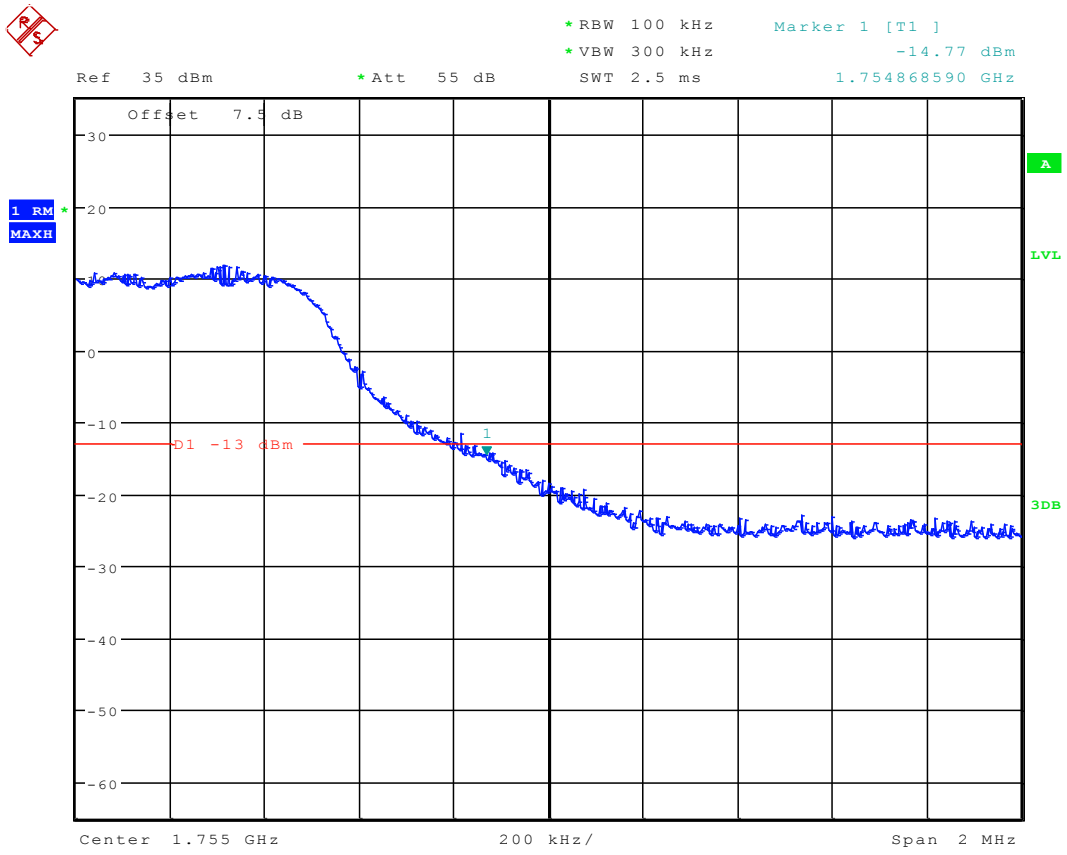
Right Edge
5MHz(BW)
Channel 20375



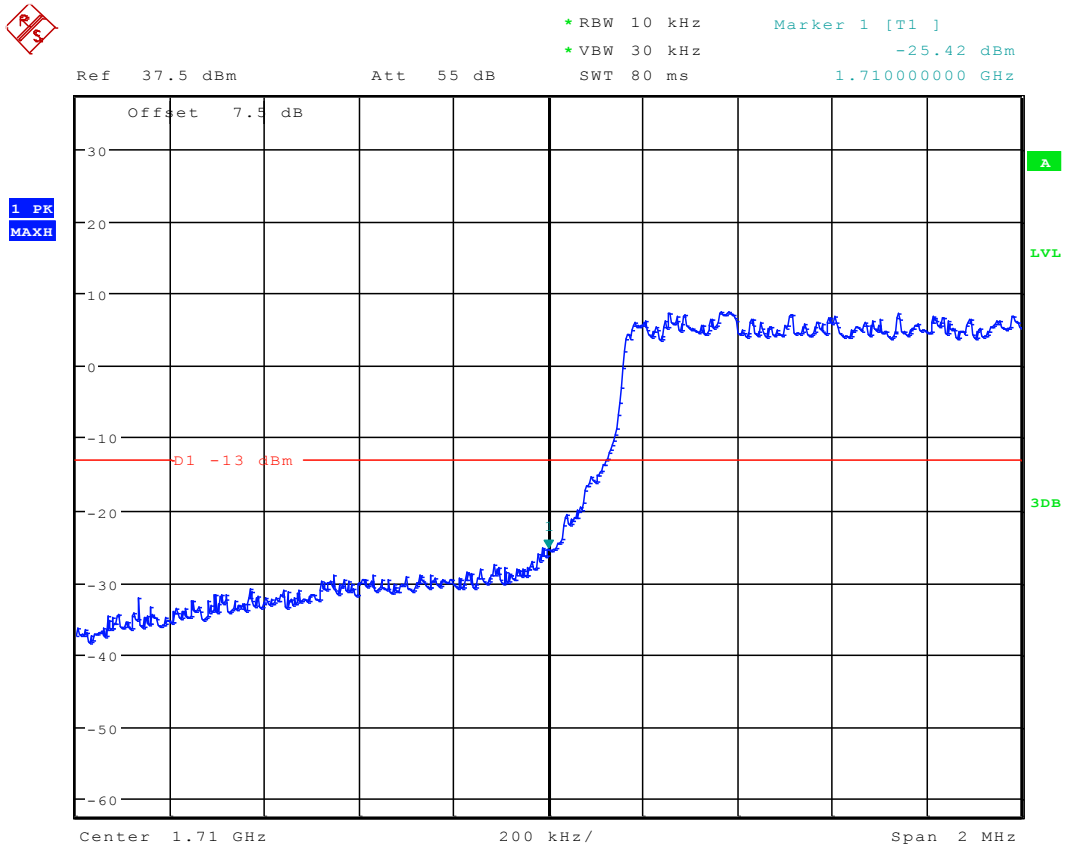
Left Edge
10MHz(BW)
Channel 20000



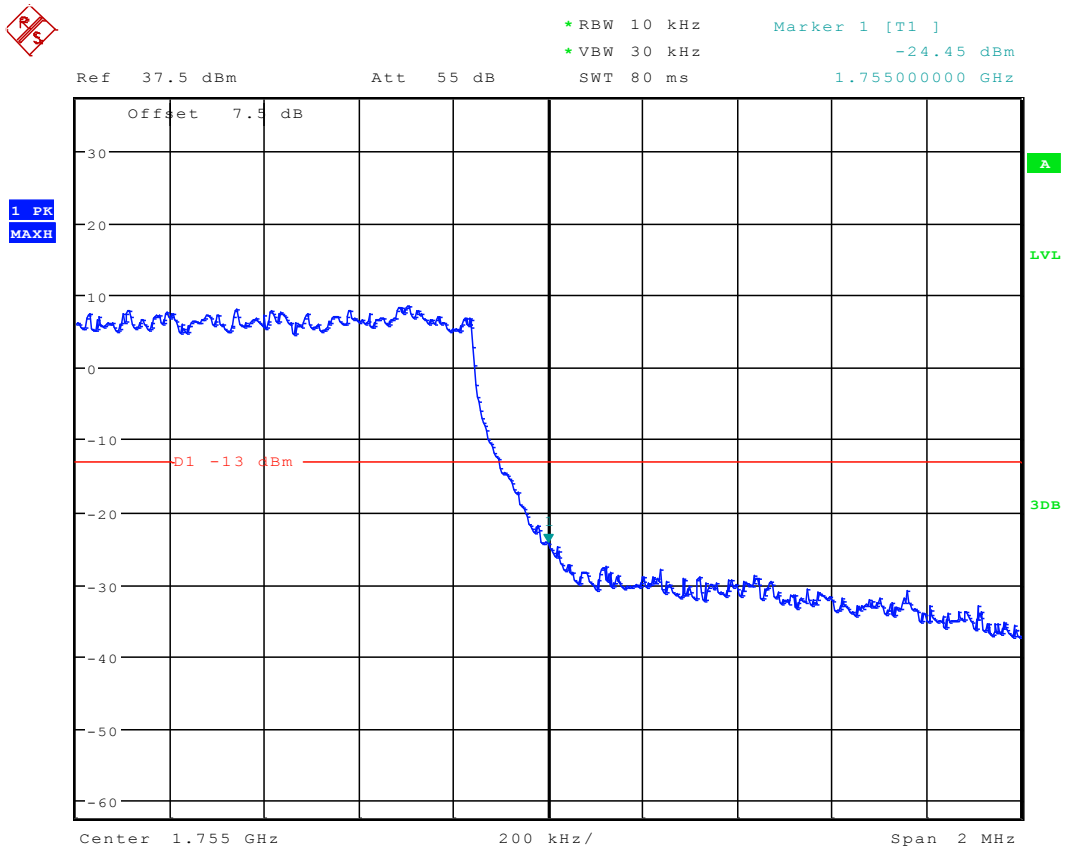
Right Edge
10MHz(BW)
Channel 20350



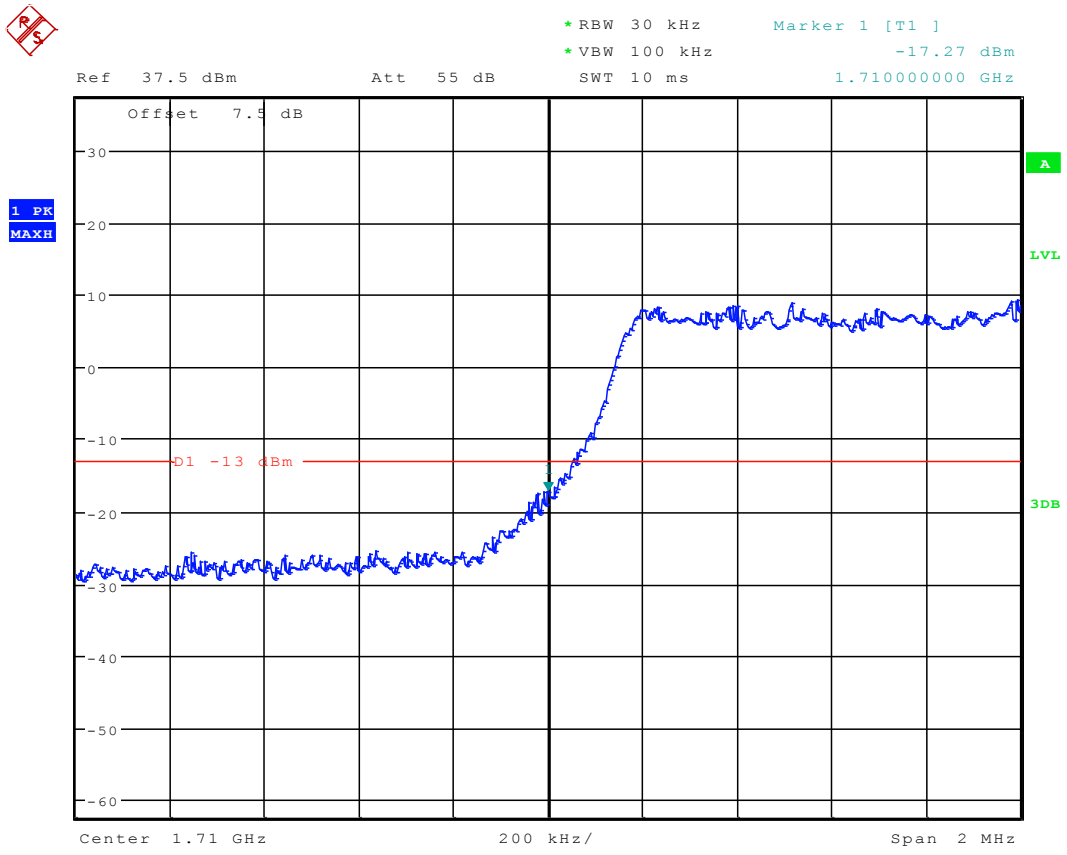
TM5
Left Edge
1.4MHz(BW)
Channel 19957



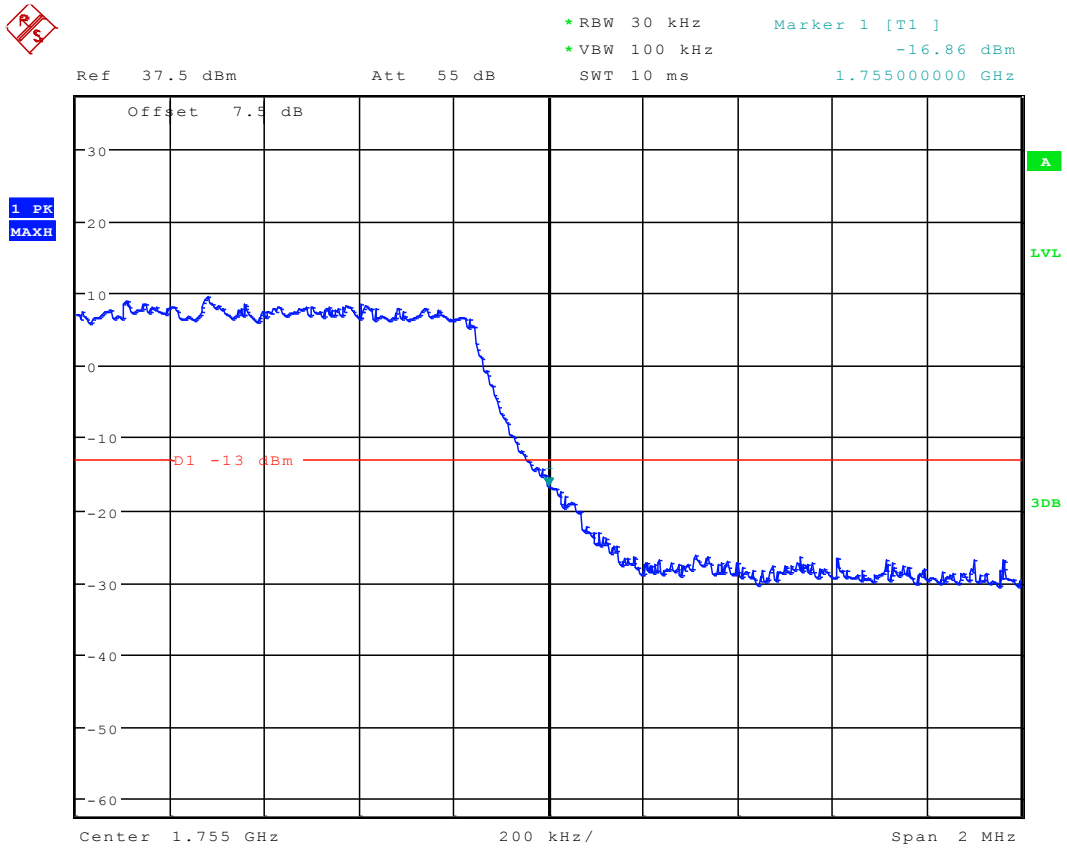
Right Edge
1.4MHz(BW)
Channel 20393



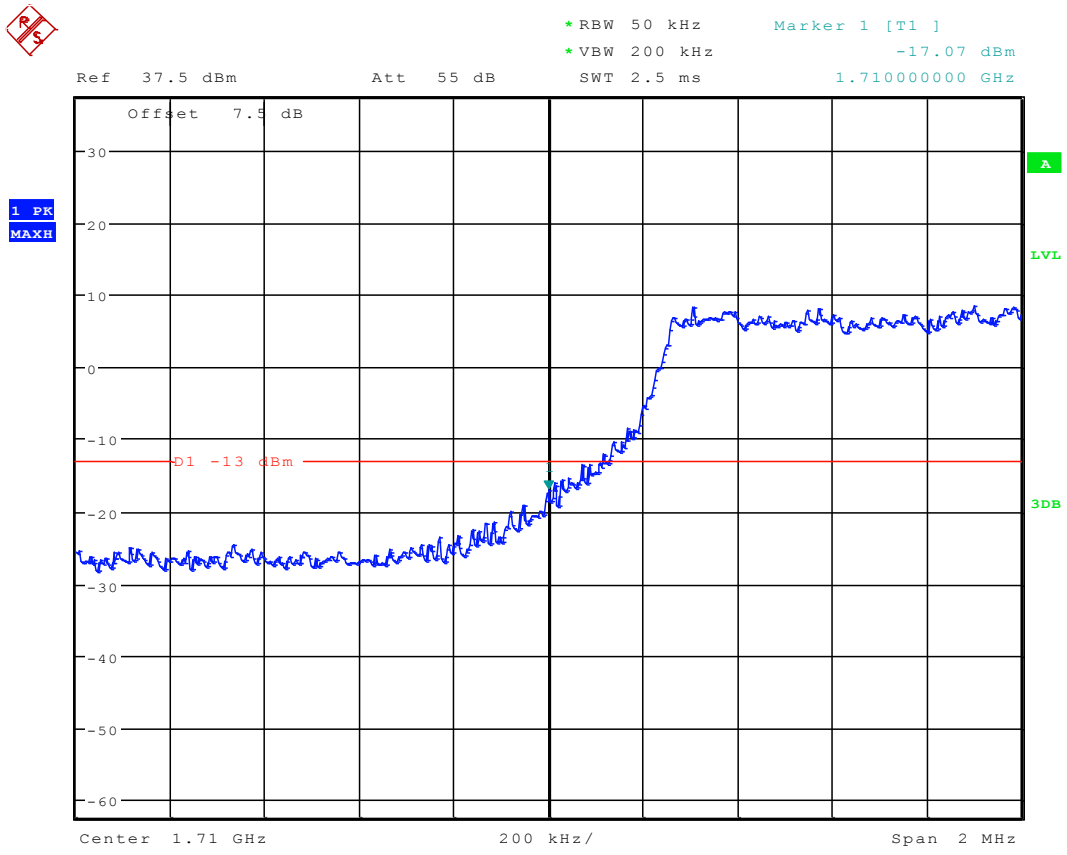
Left Edge
3MHz(BW)
Channel 19965



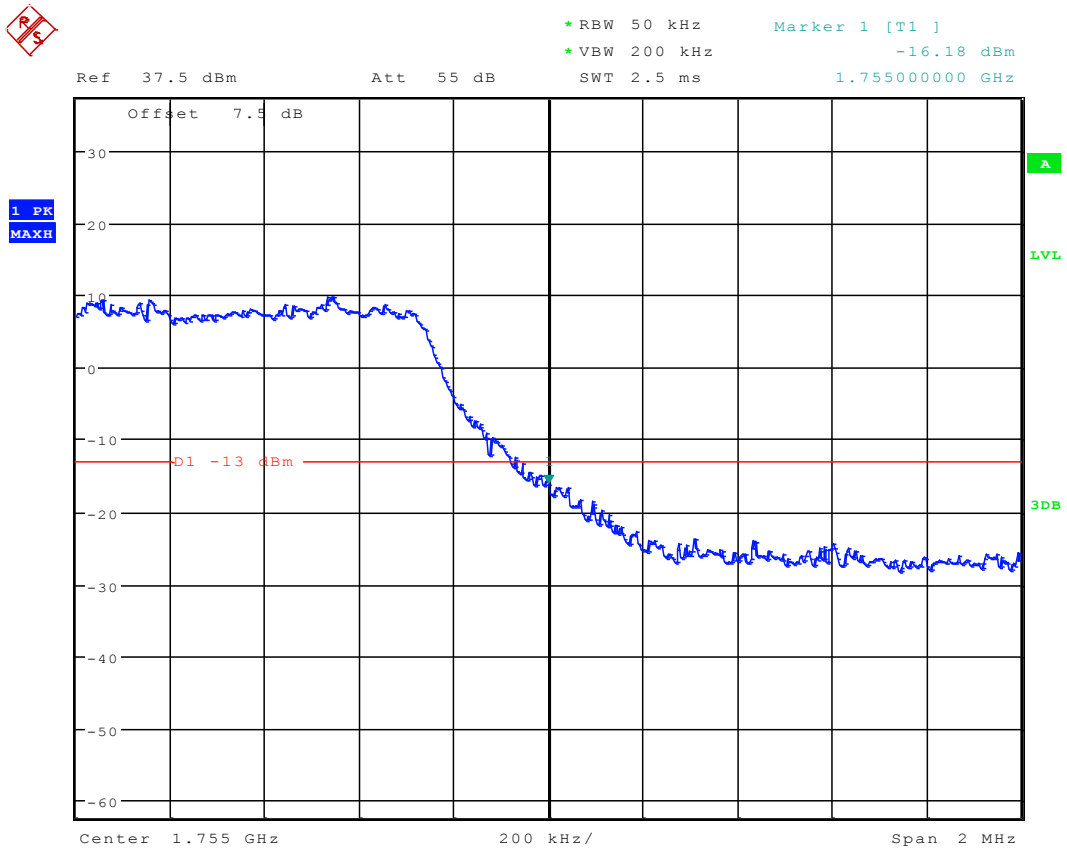
Right Edge
3MHz(BW)
Channel 20385



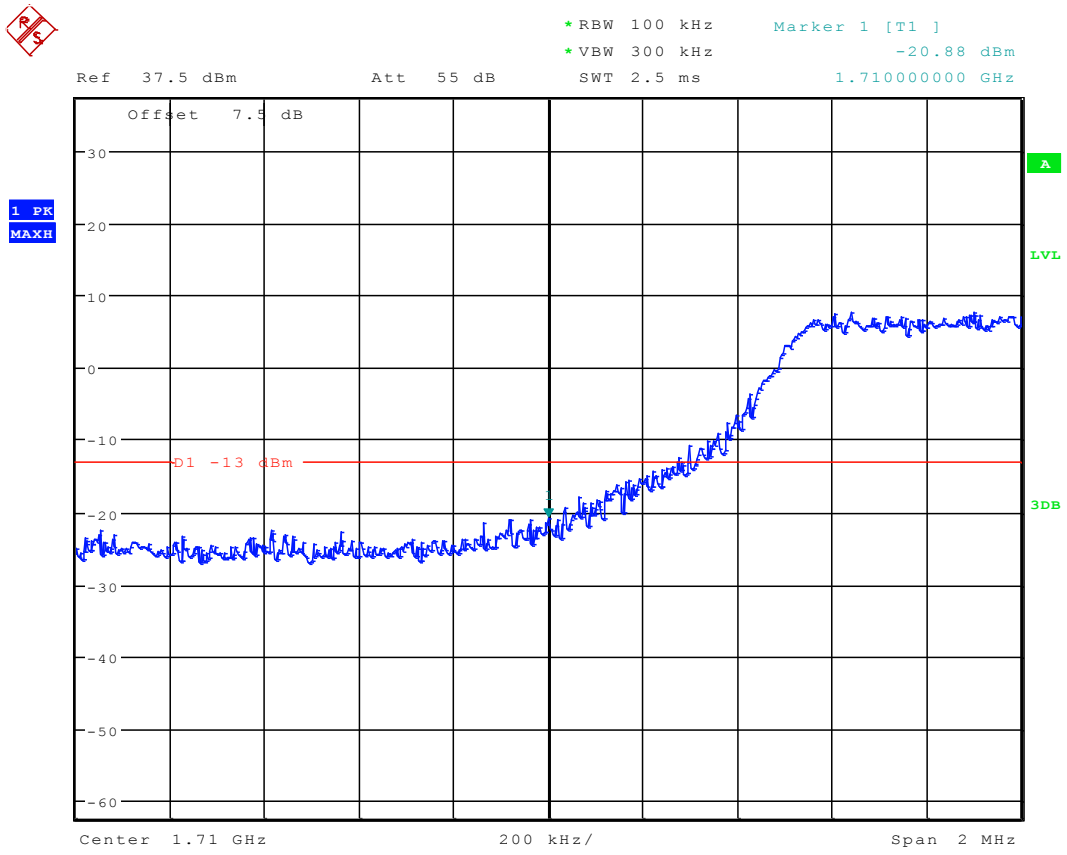
Left Edge
5MHz(BW)
Channel 19975



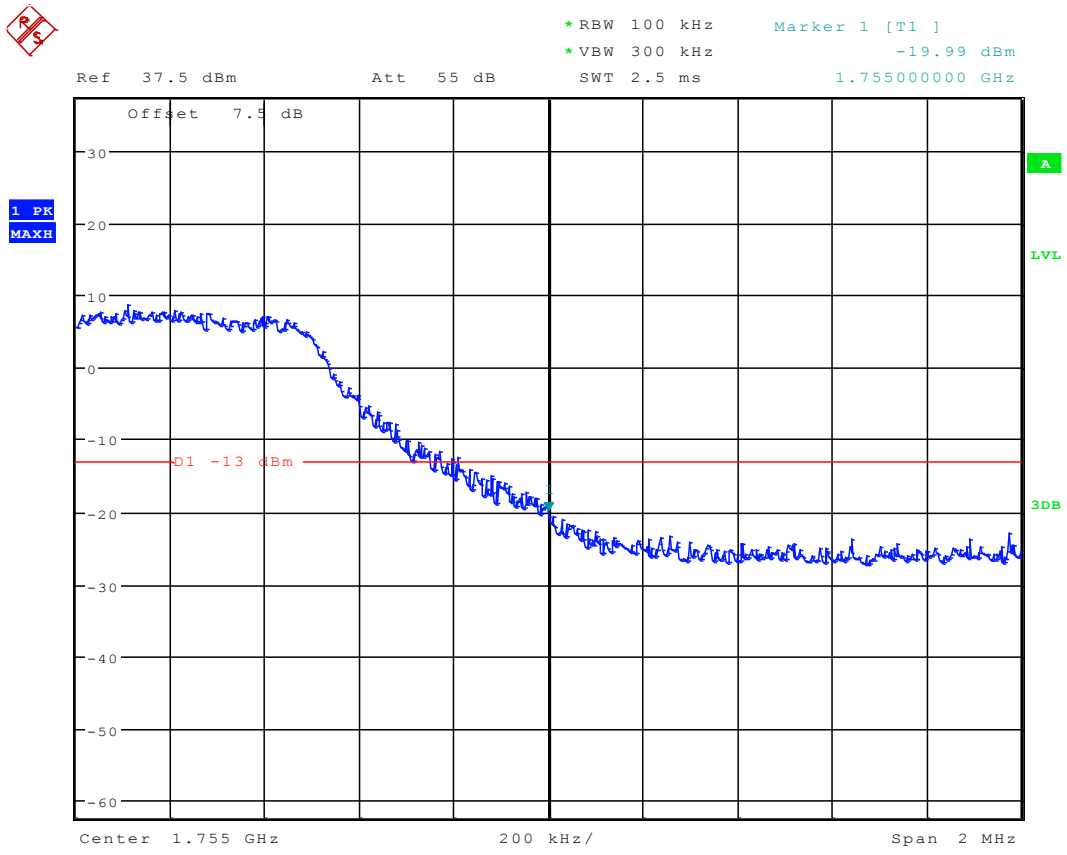
Right Edge
5MHz(BW)
Channel 20375



Left Edge
10MHz(BW)
Channel 20000



Right Edge
10MHz(BW)
Channel 20350

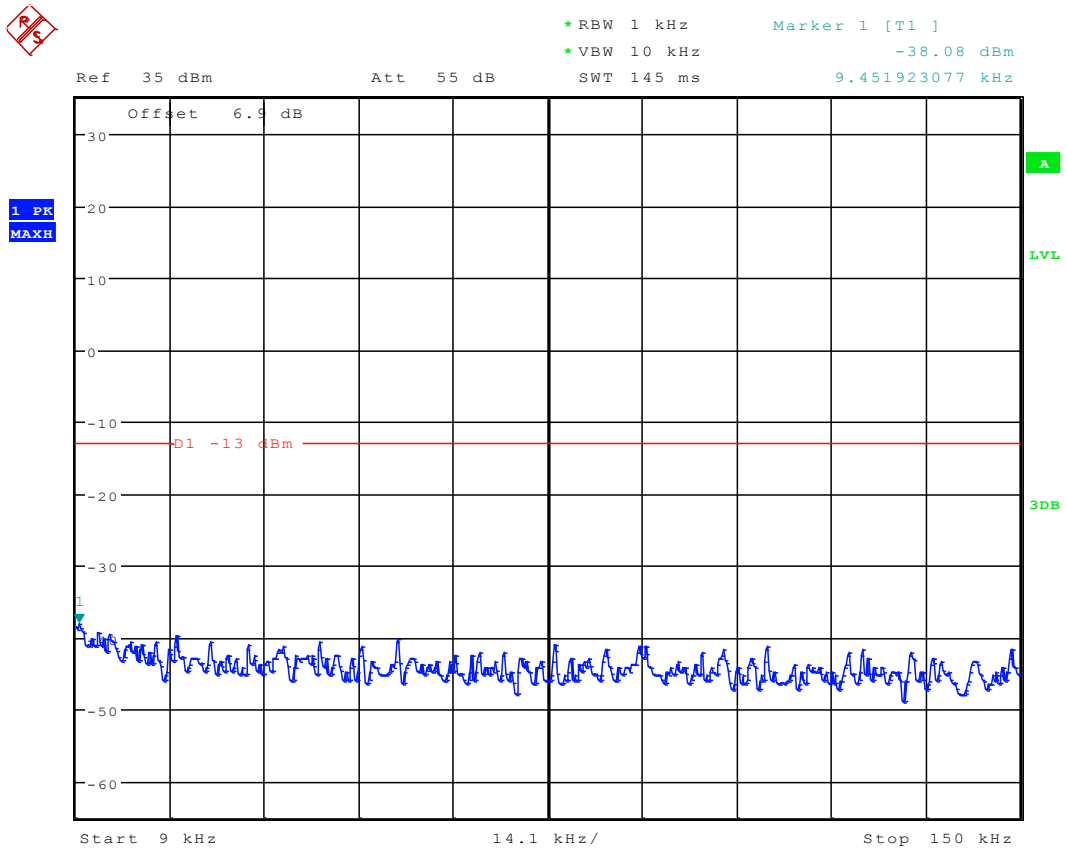


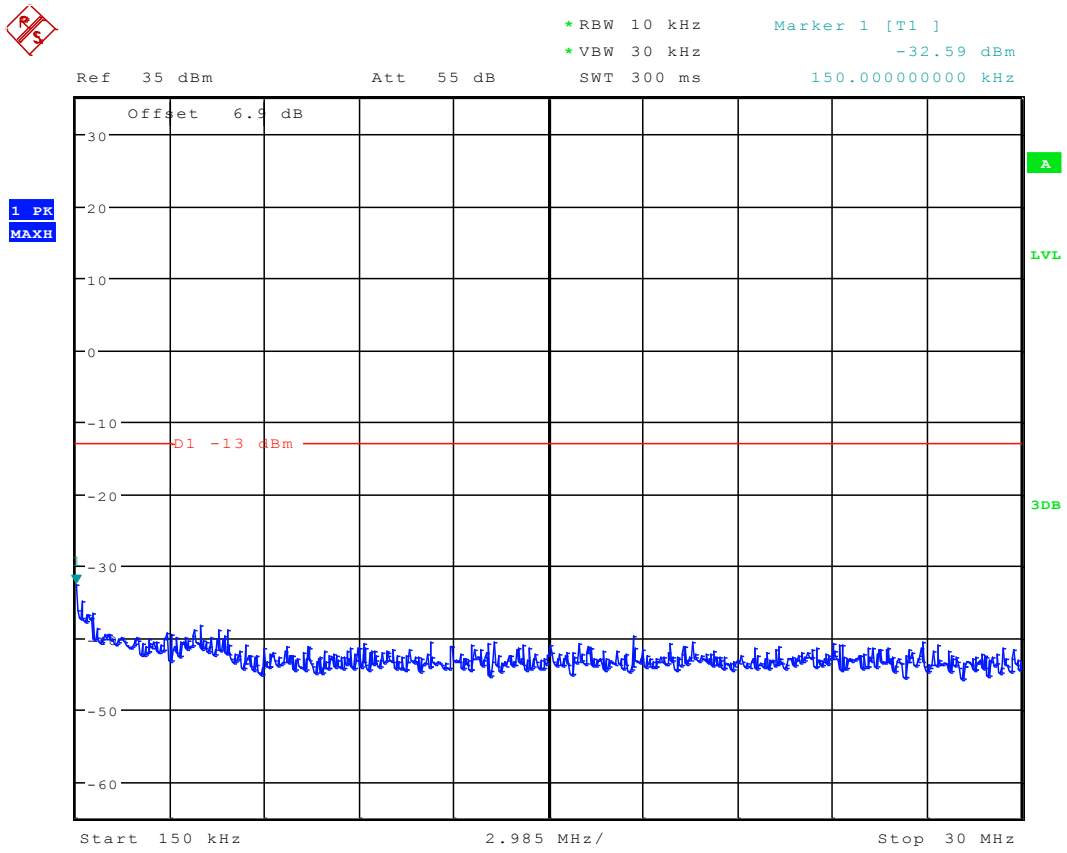
Appendix D

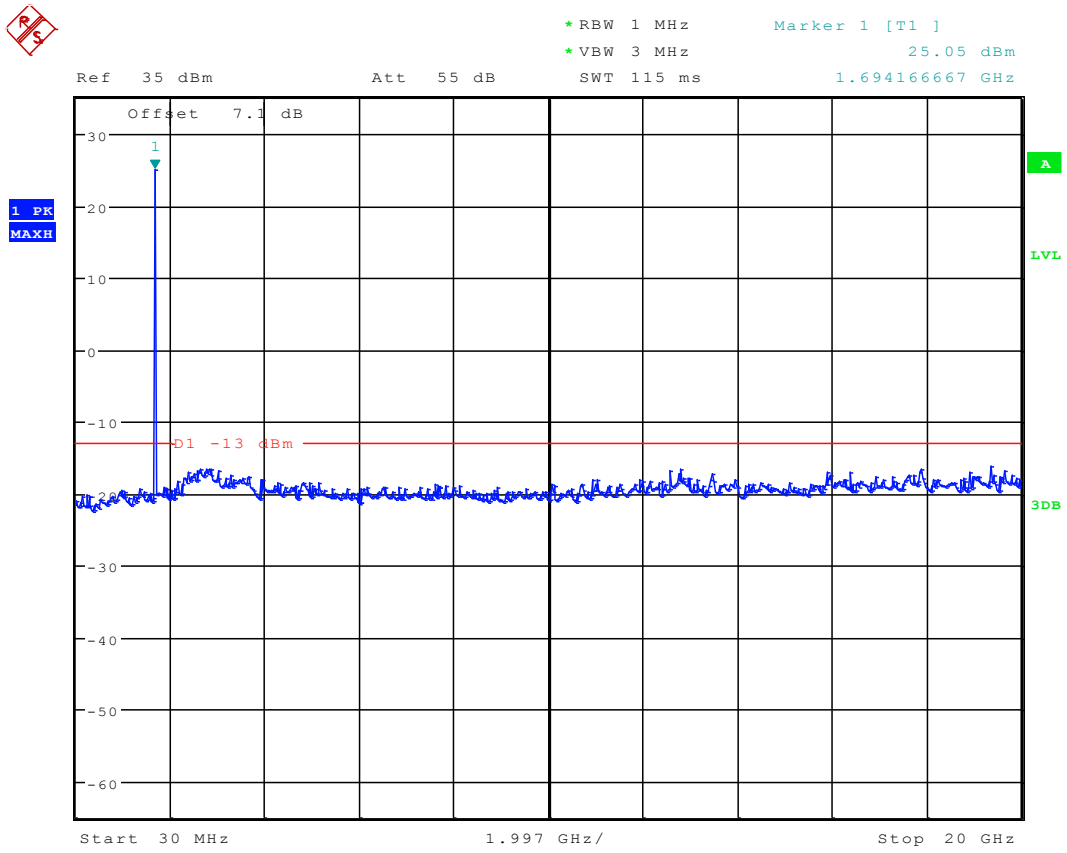
Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & 27.53(g)

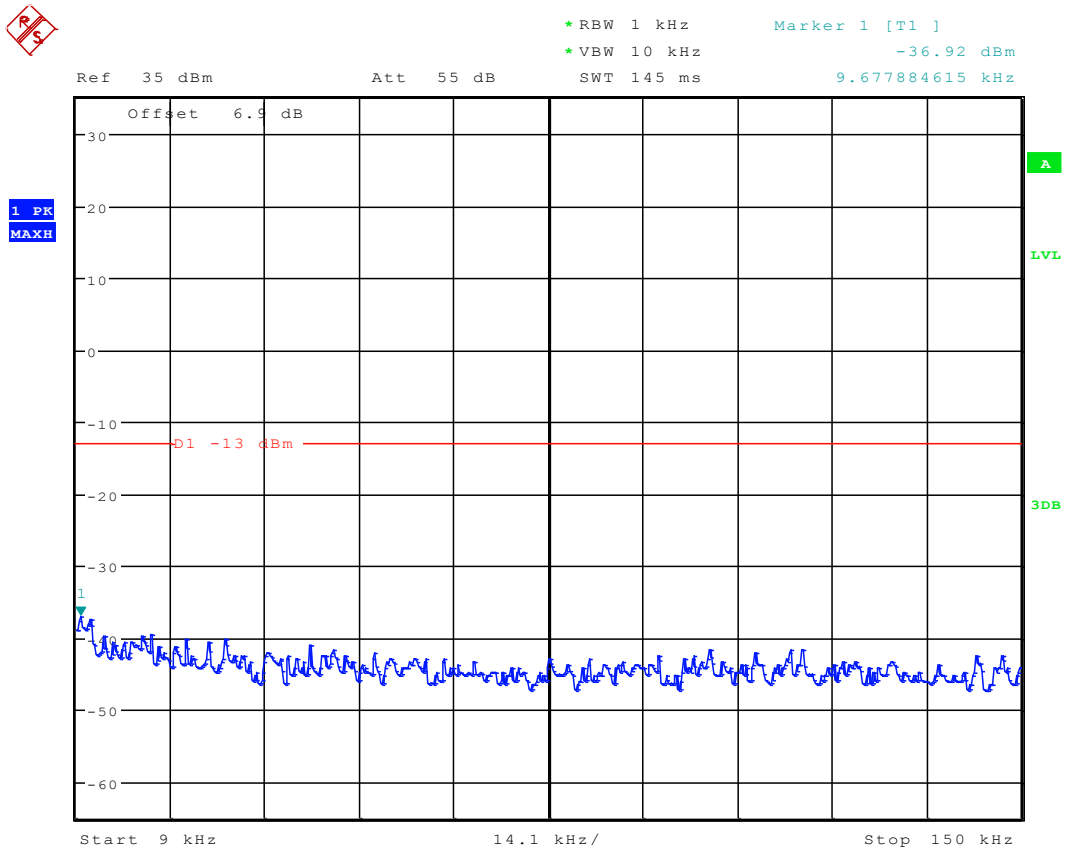
Channel 25（TM1）

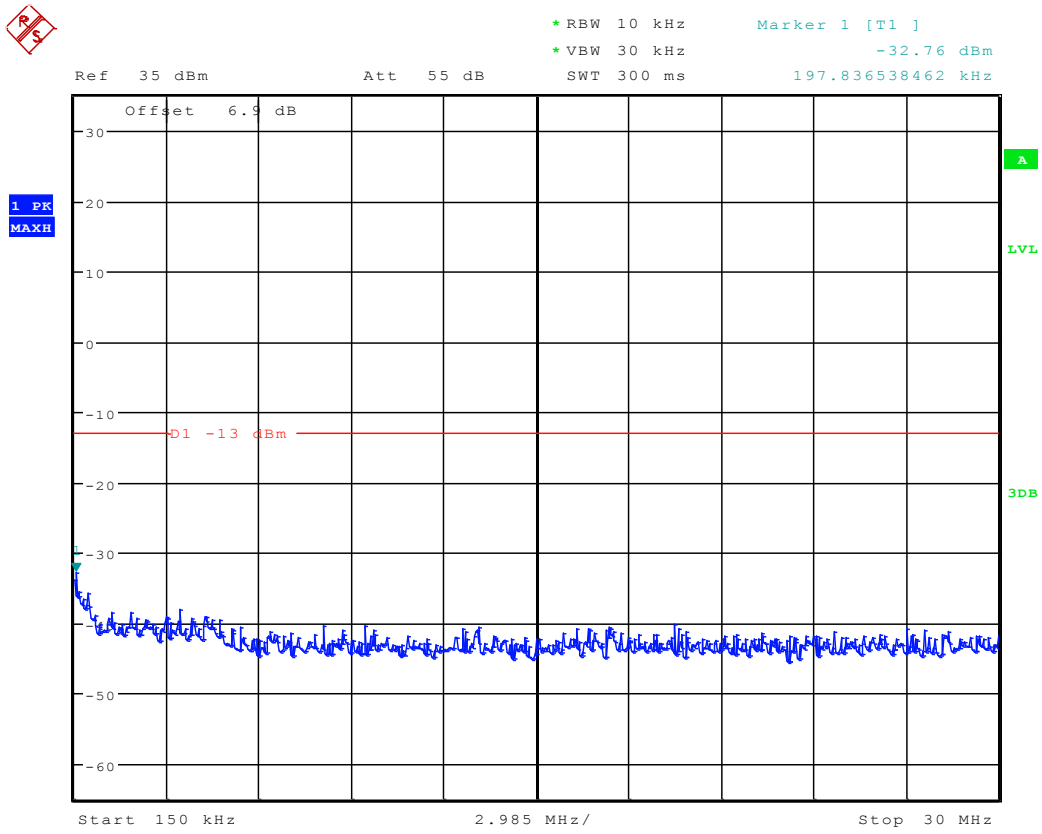


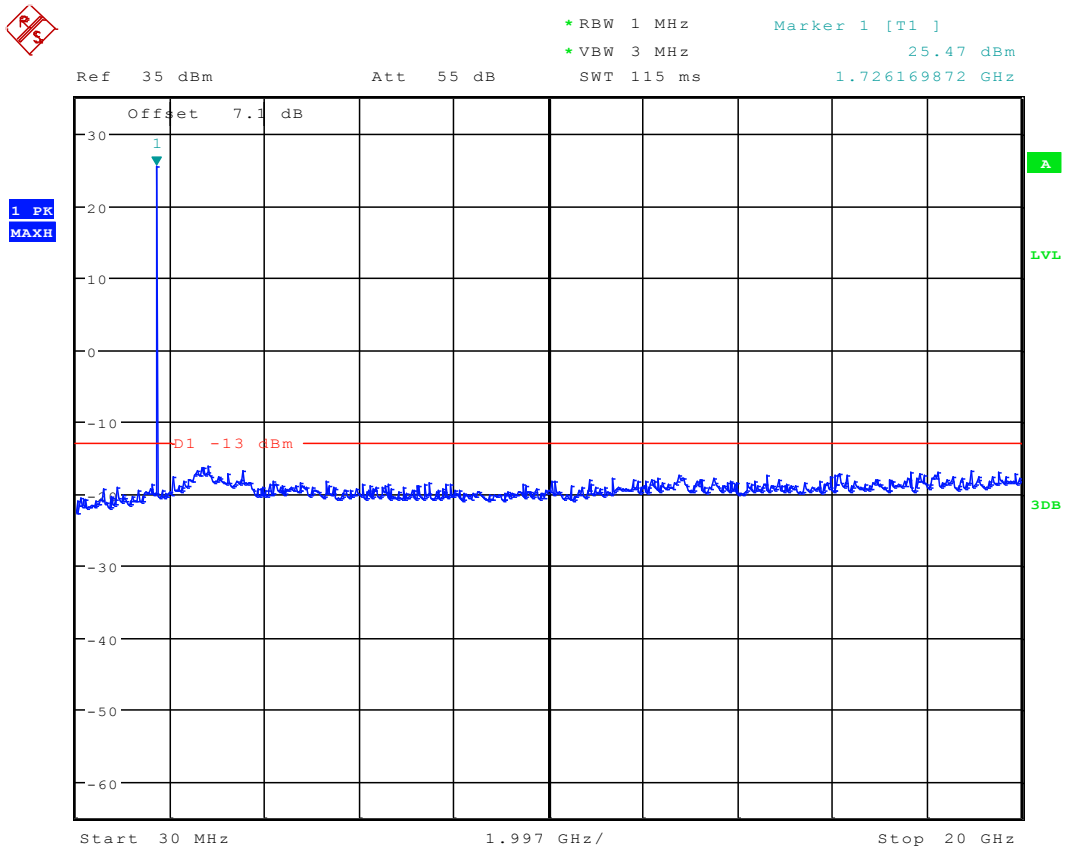

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.59 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.05 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

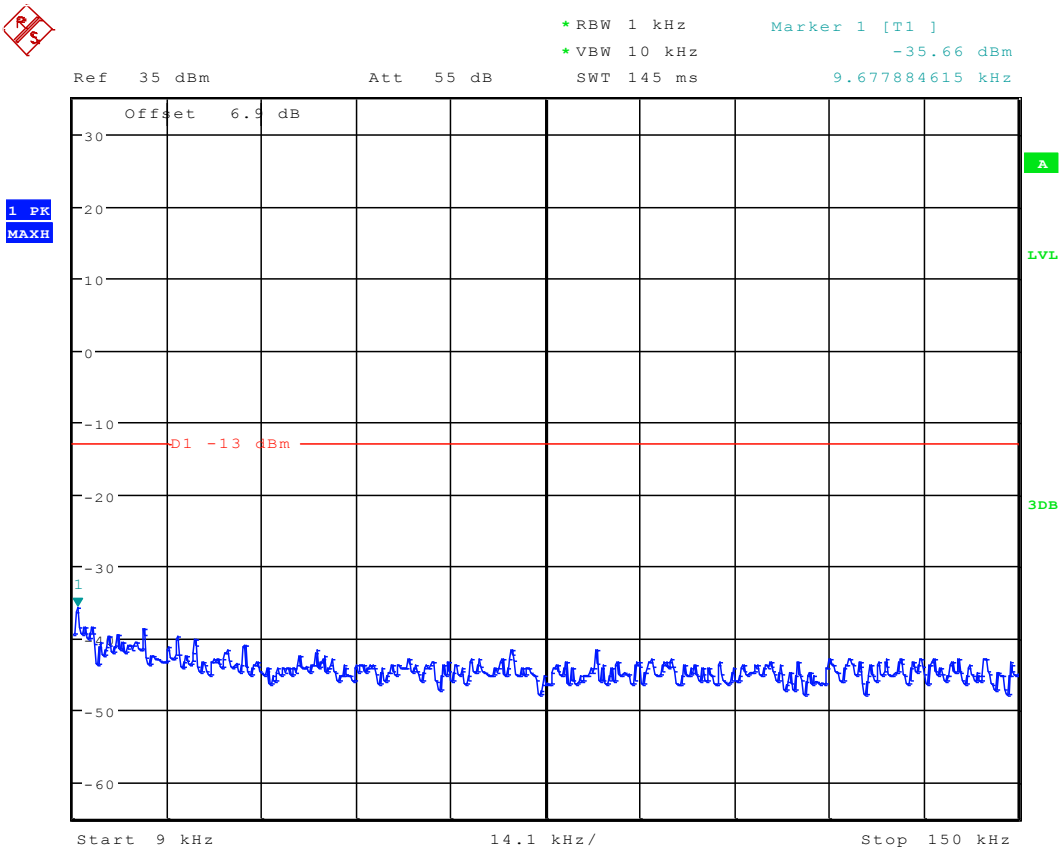
Channel 450（TM1）

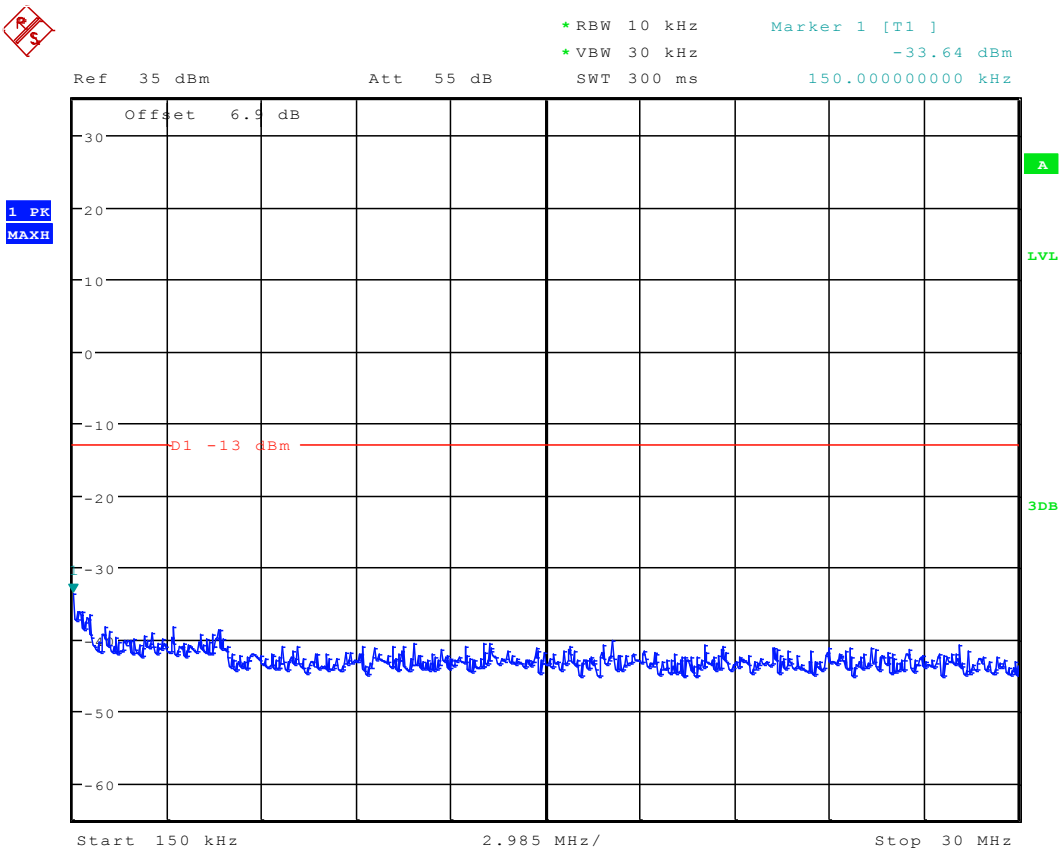


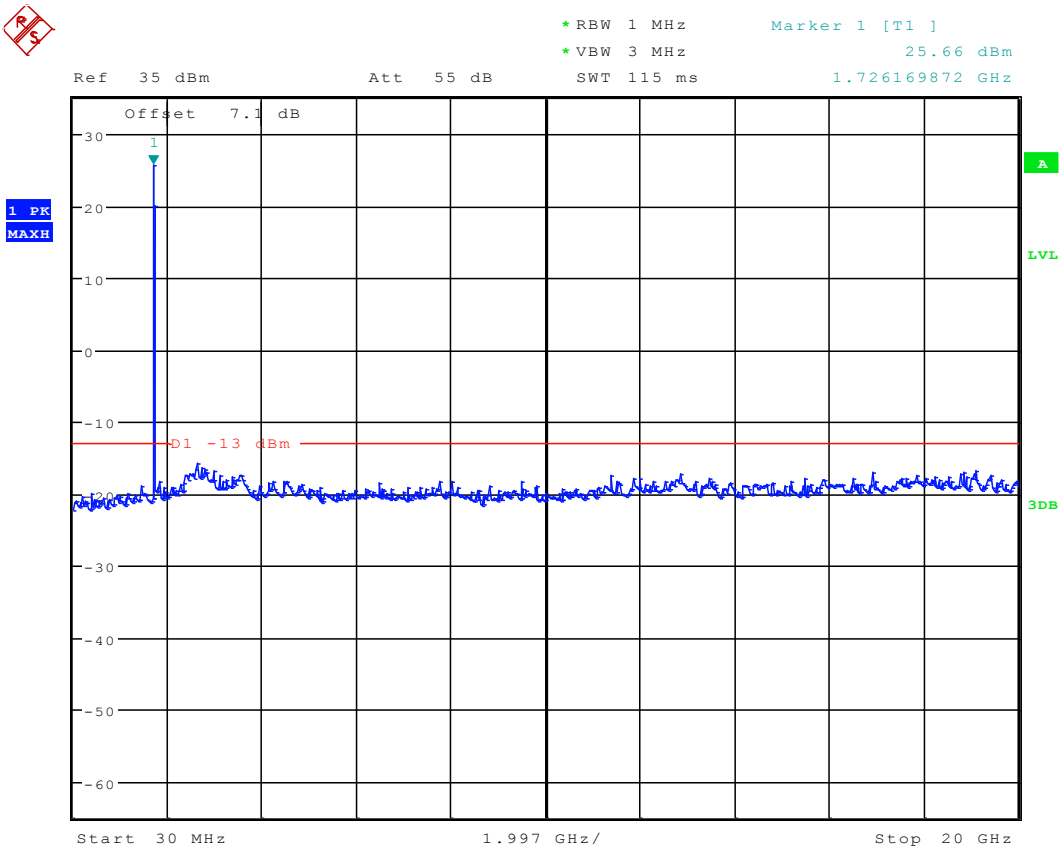

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.76 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.47 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

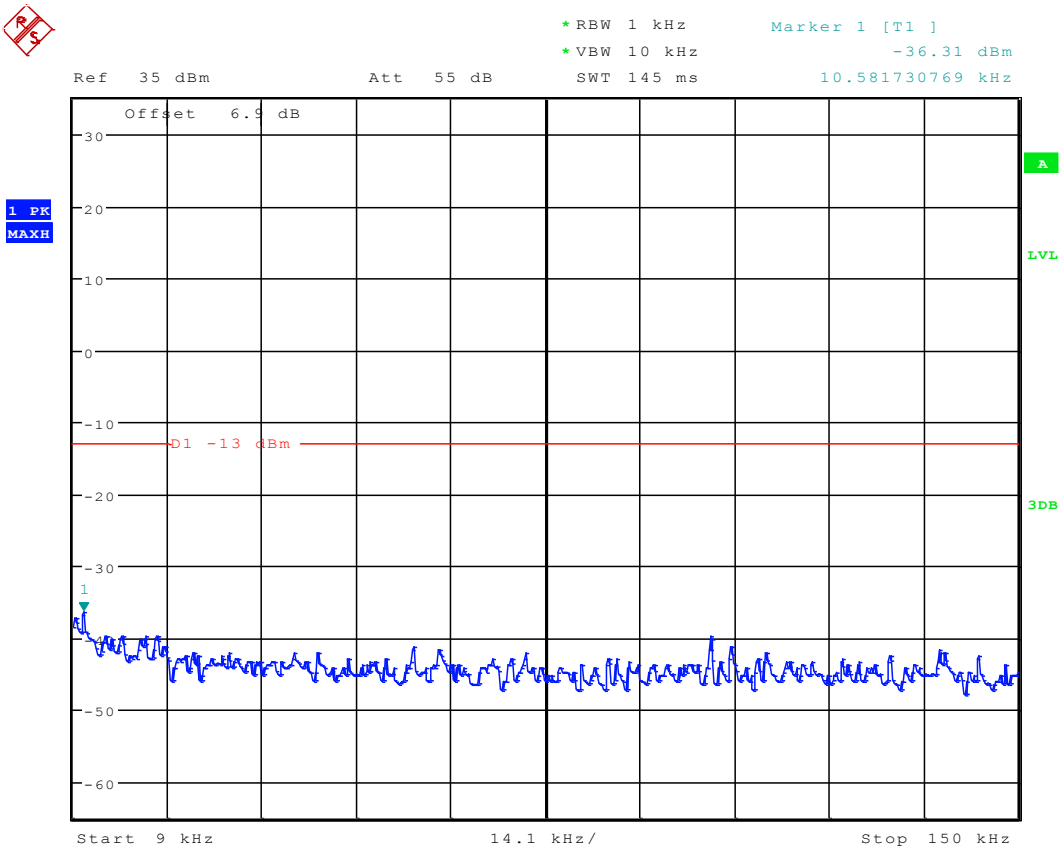
Channel 875（TM1）

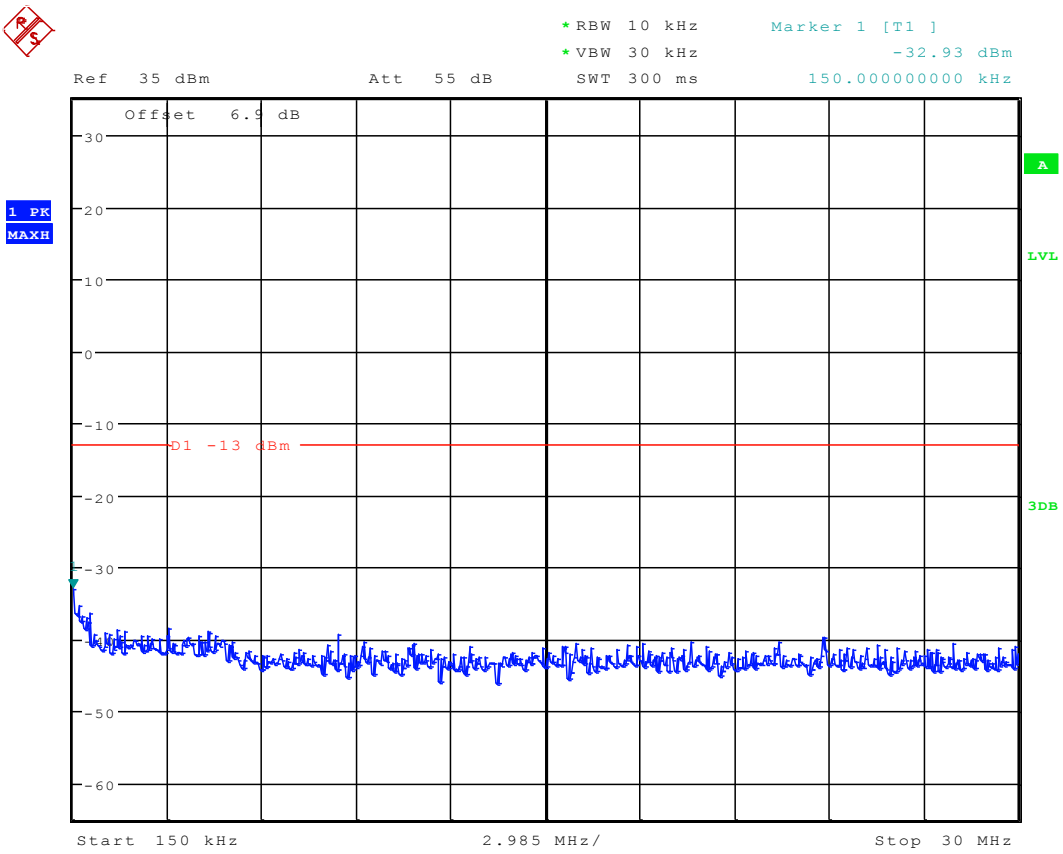


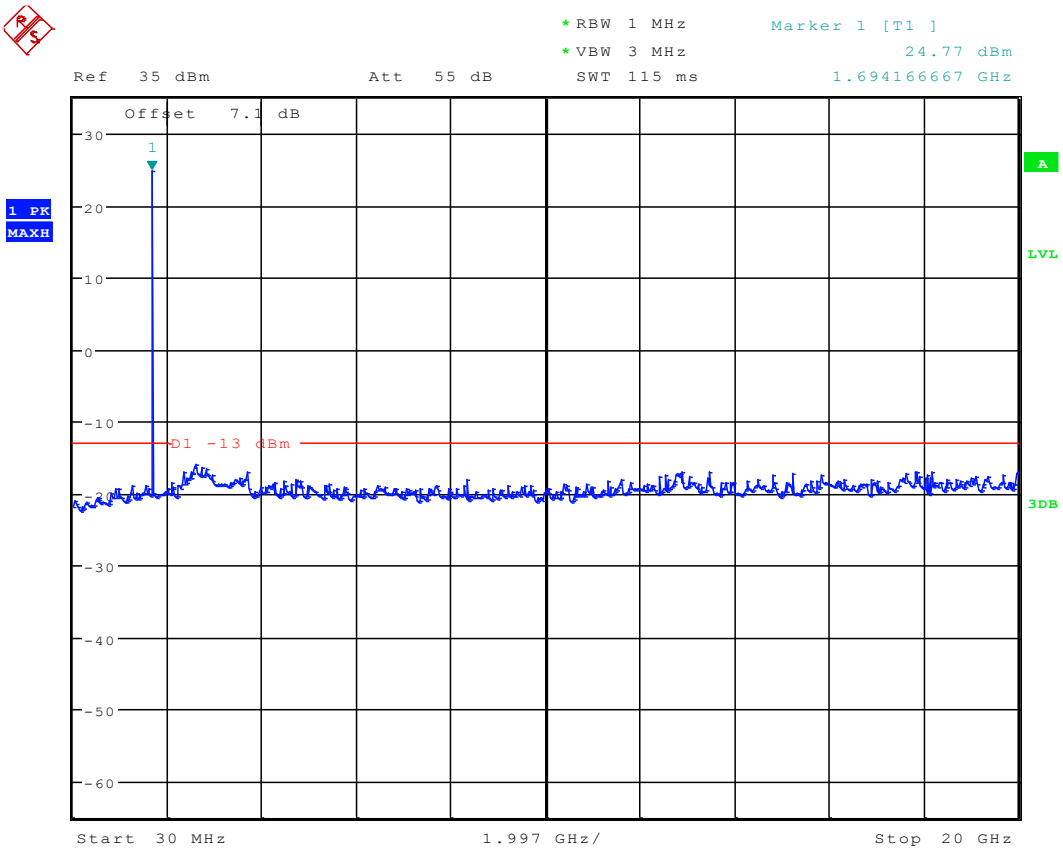

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-33.64 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.66 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

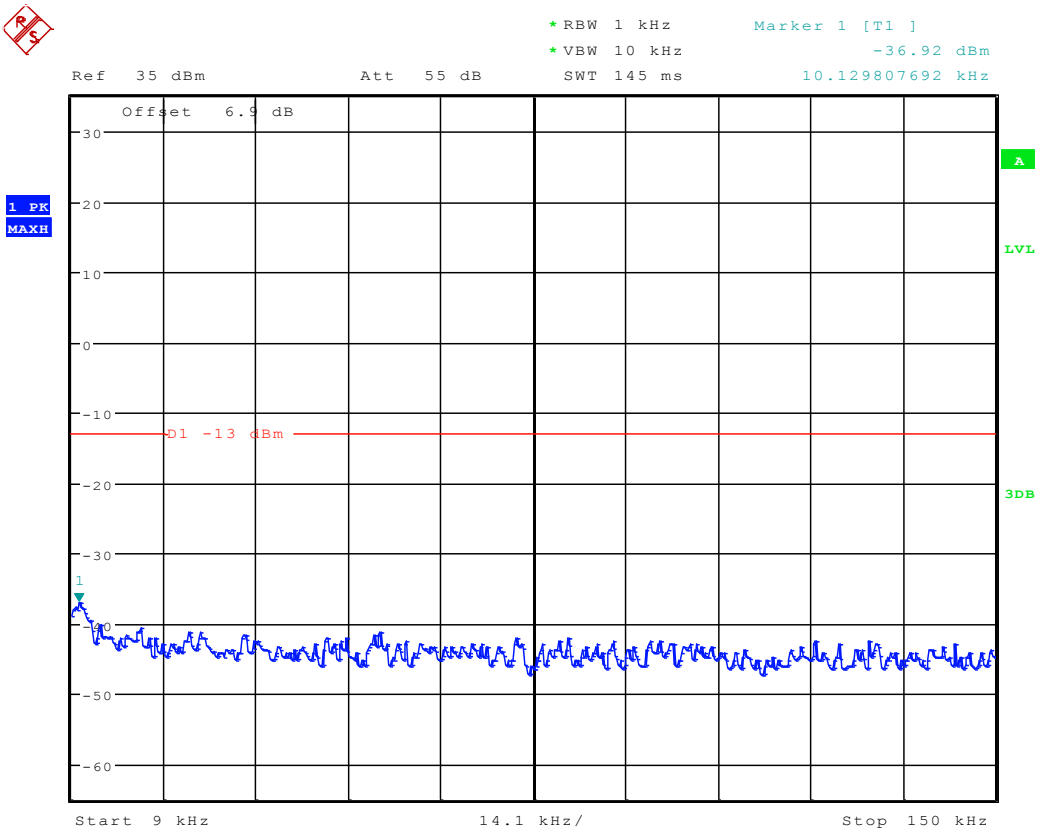
Channel 25（TM3）

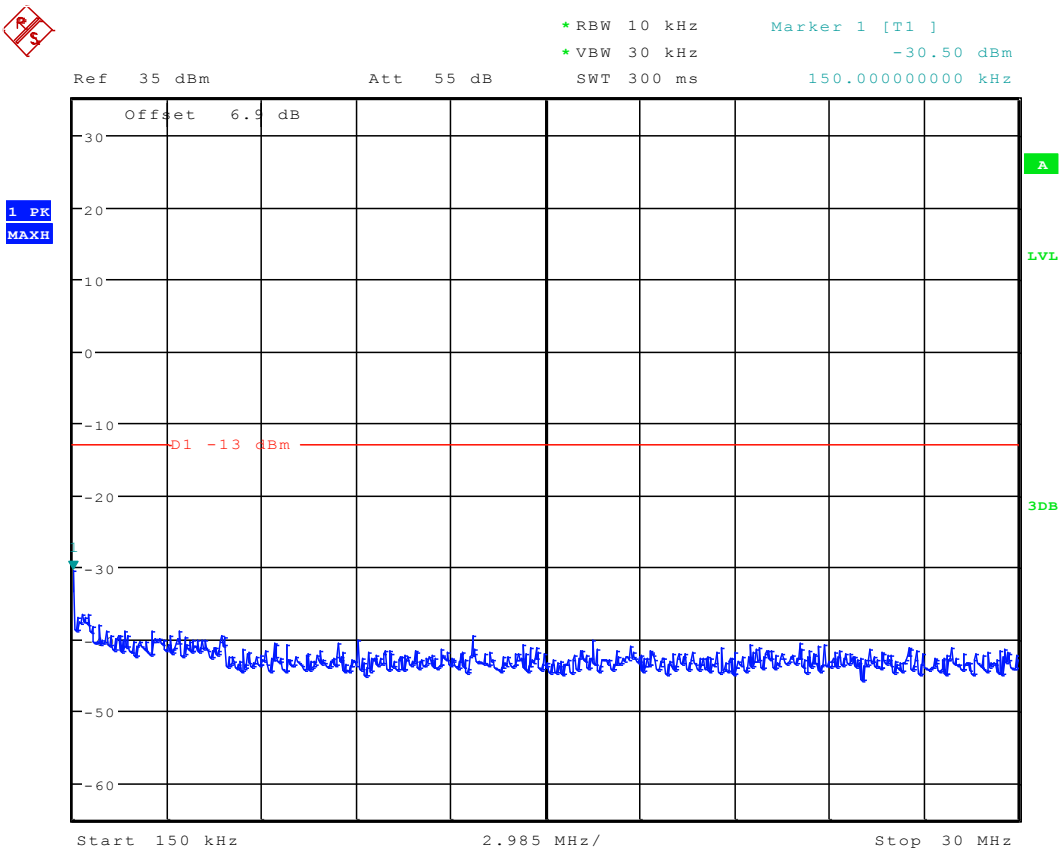


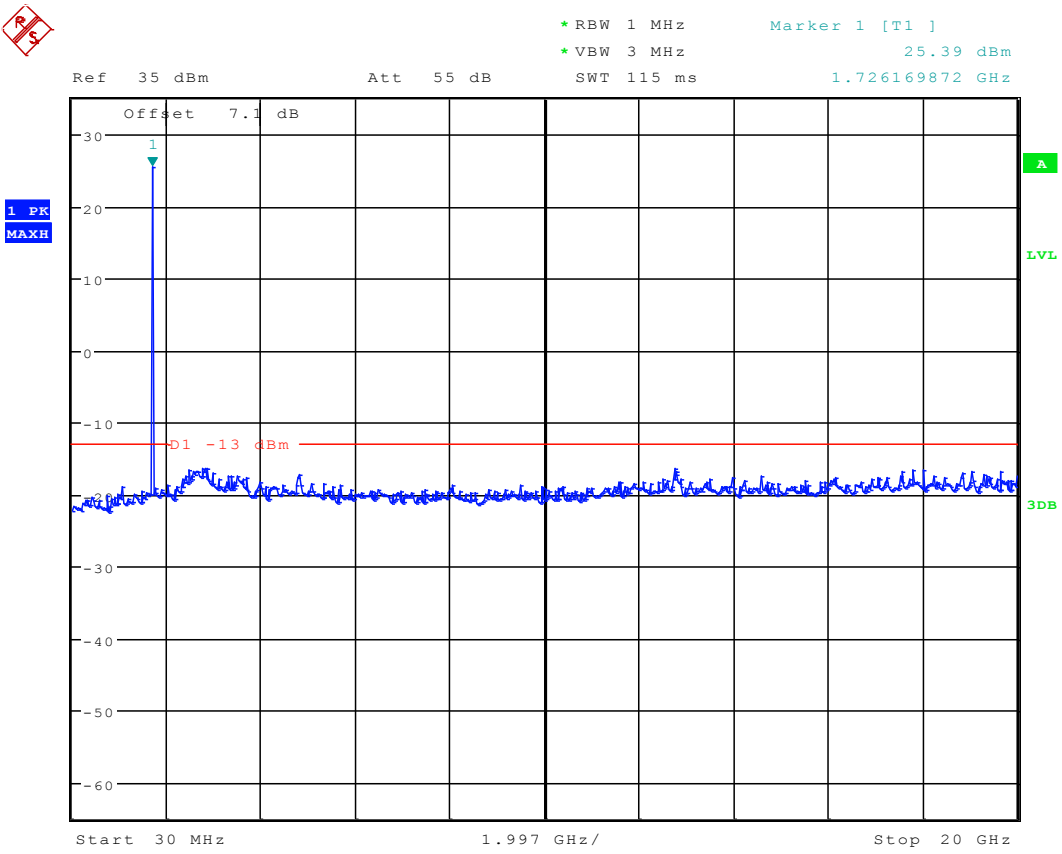

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.93 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
24.77 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

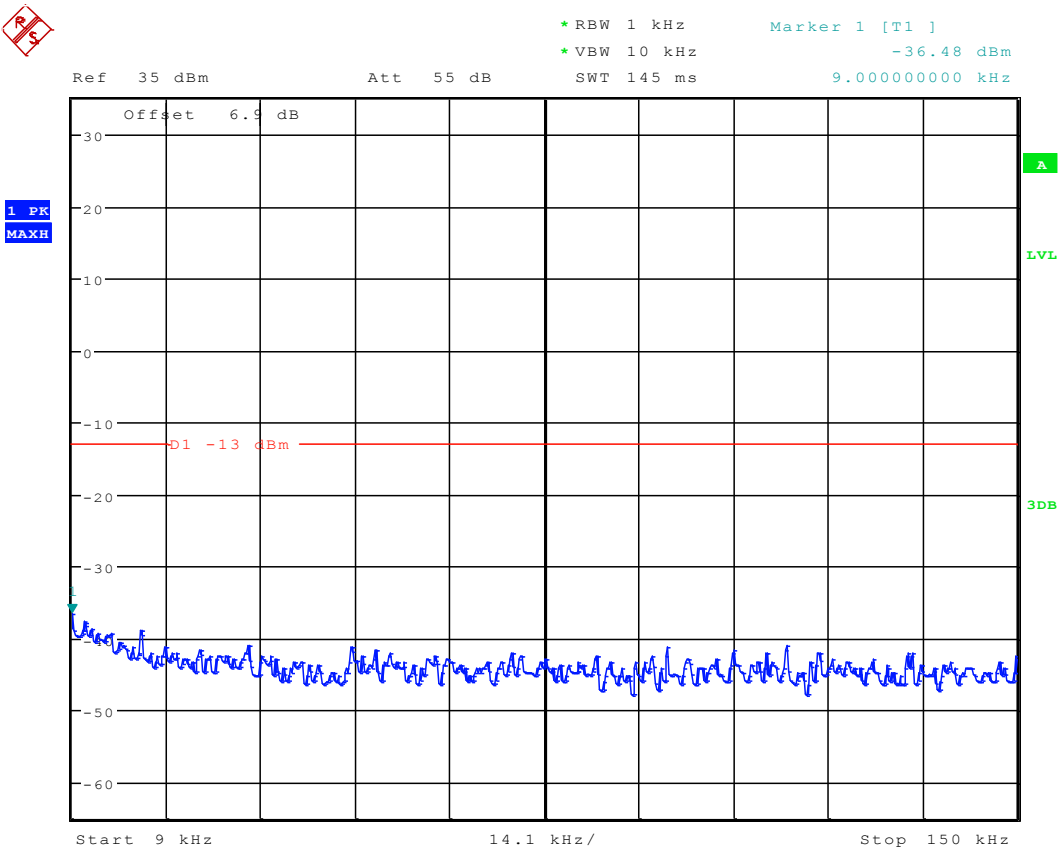
Channel 450（TM3）

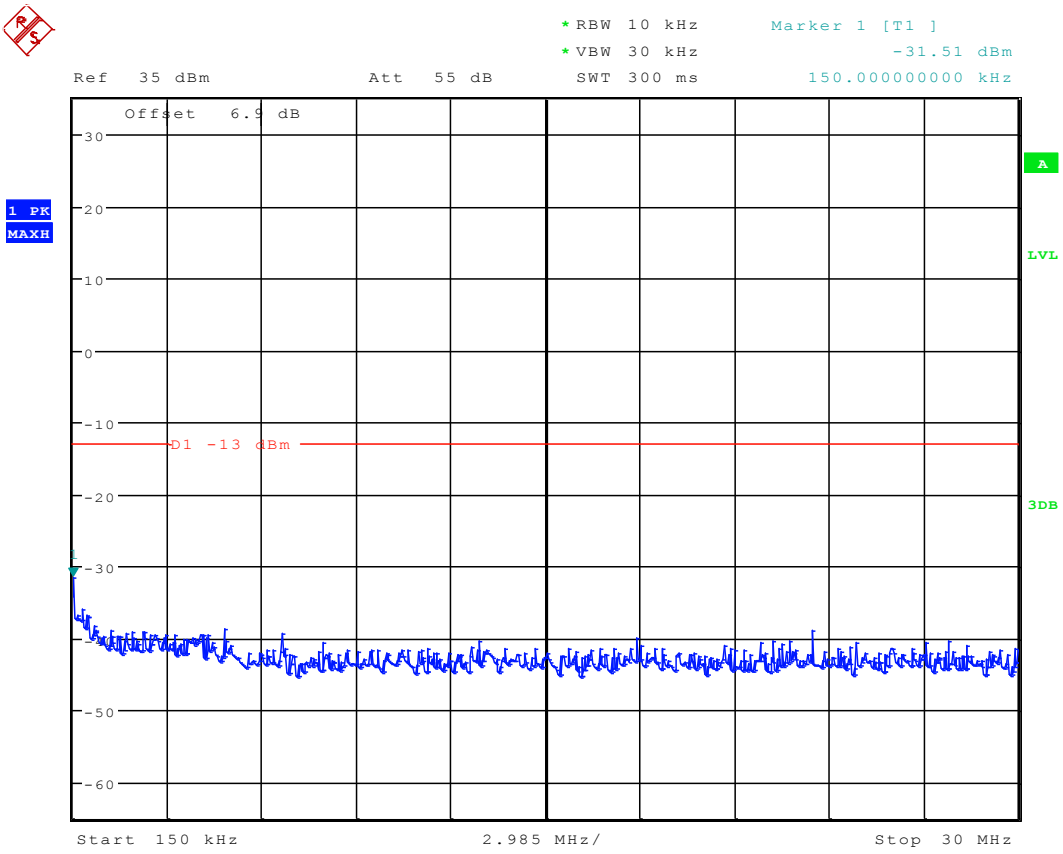


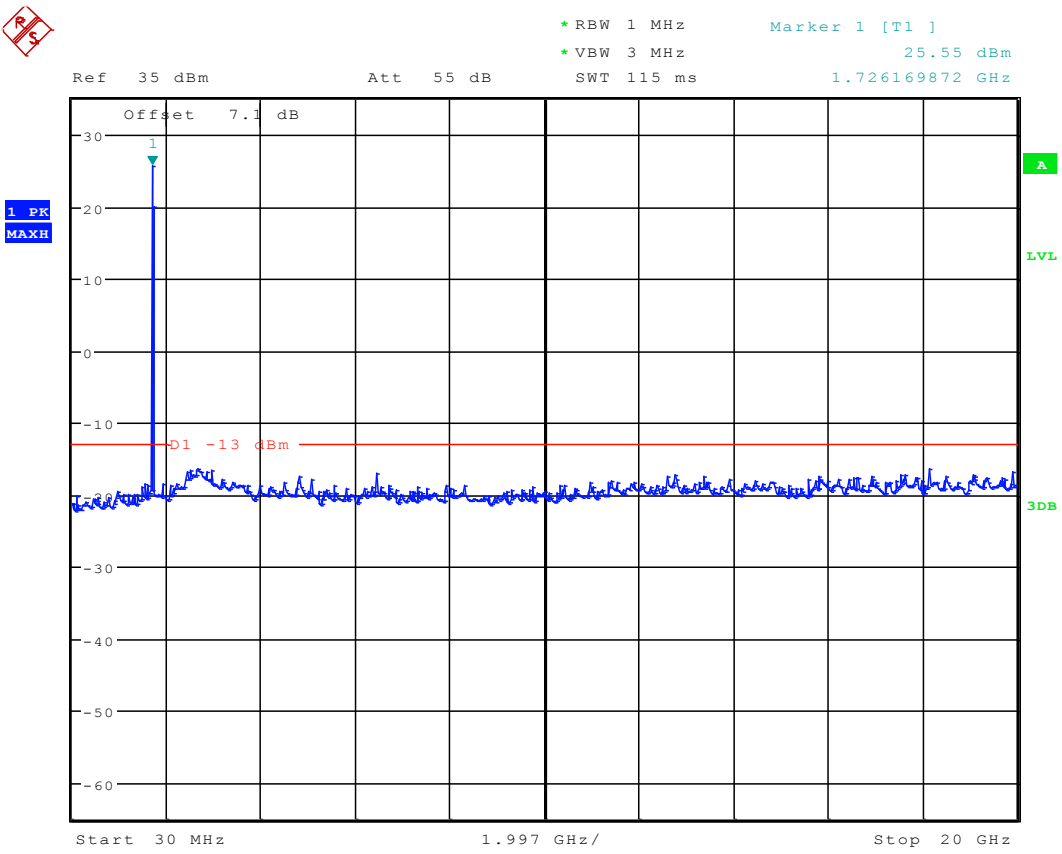

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-30.50 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.39 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

Channel 875（TM3）

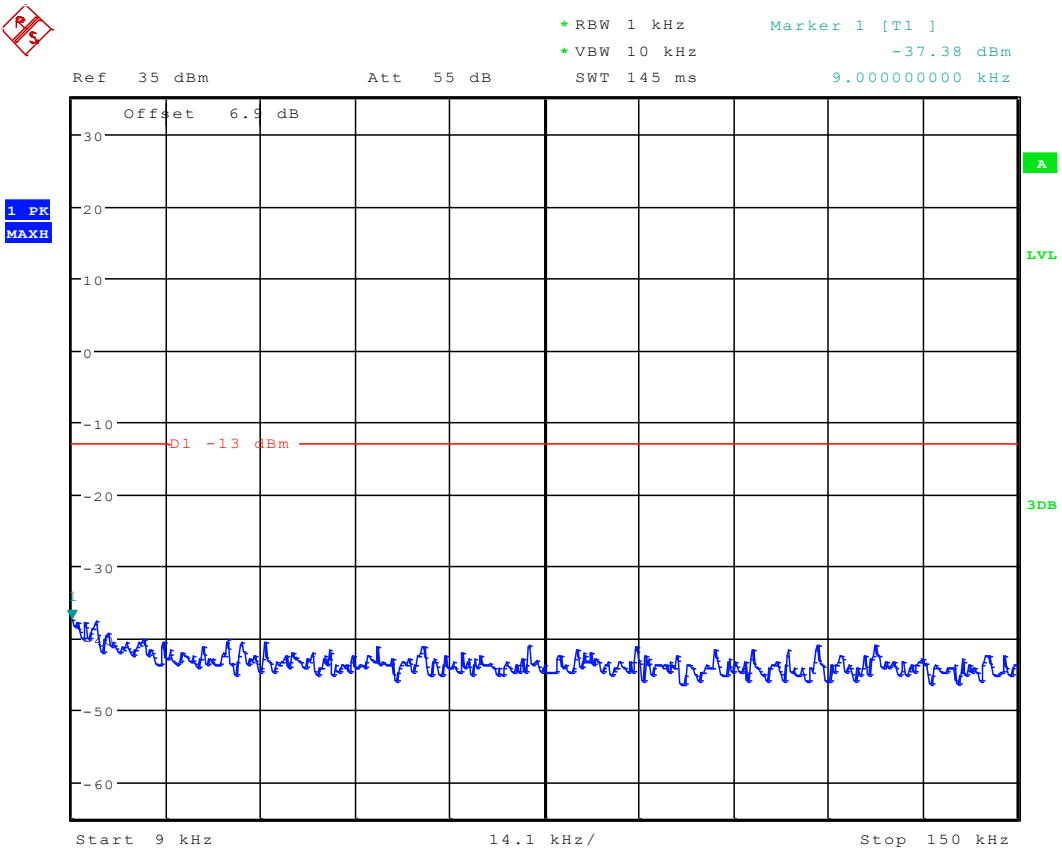


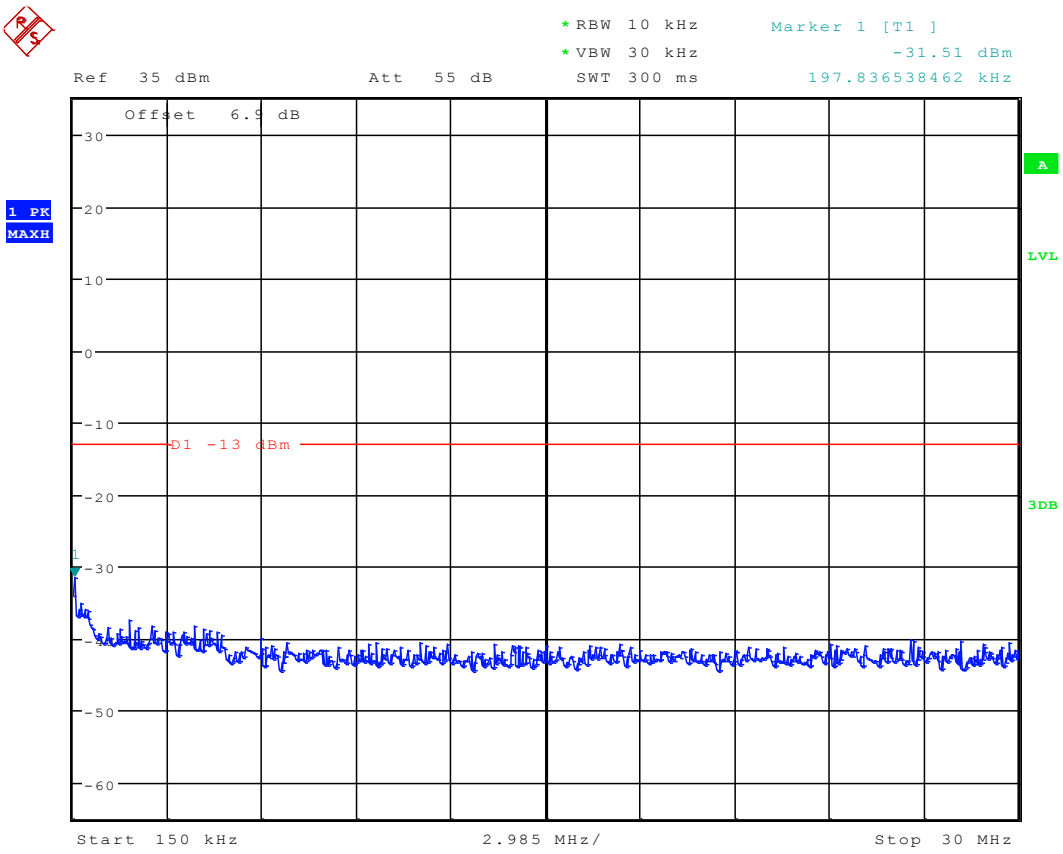

* RBW 10 kHz
* VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.51 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz

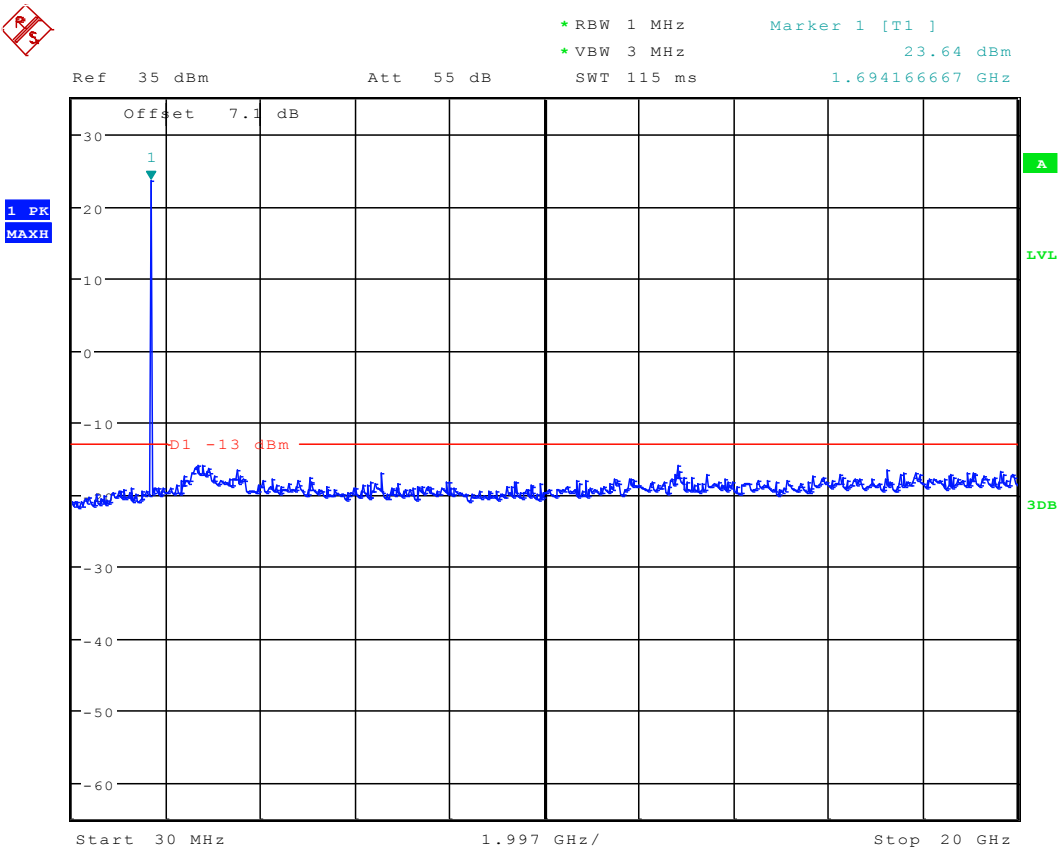

* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.55 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

EVDO subtype 0

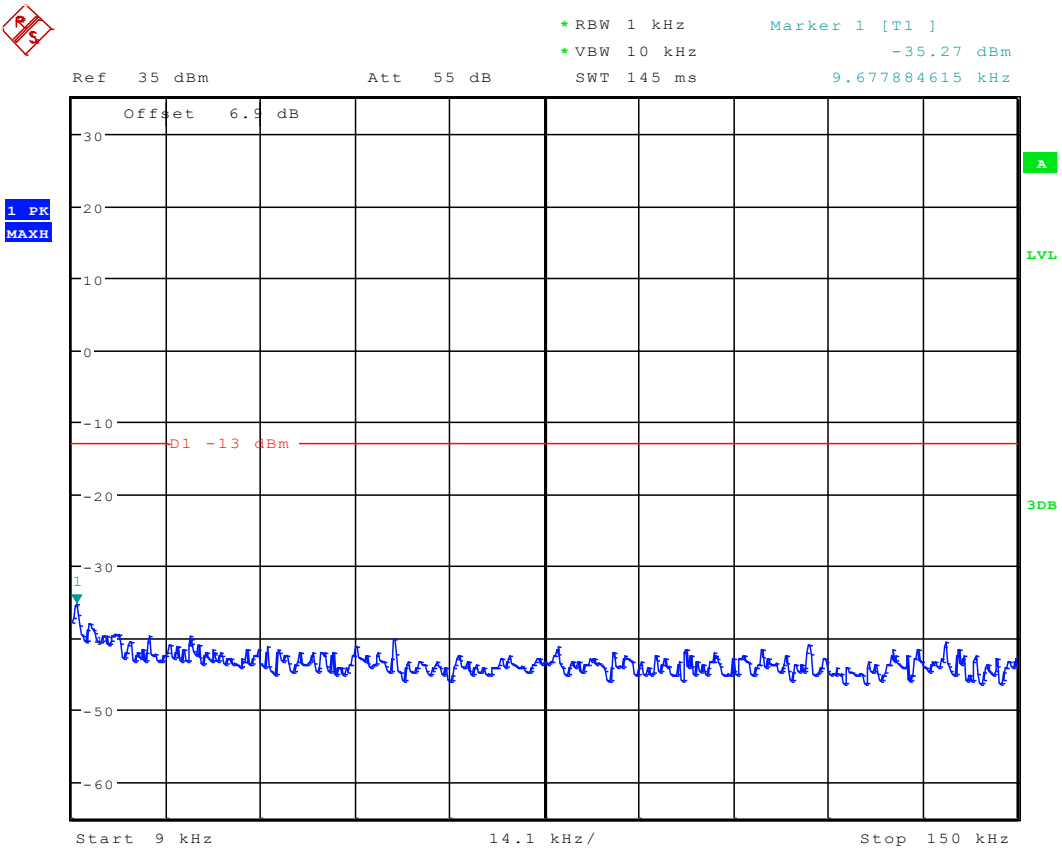
Channel 25

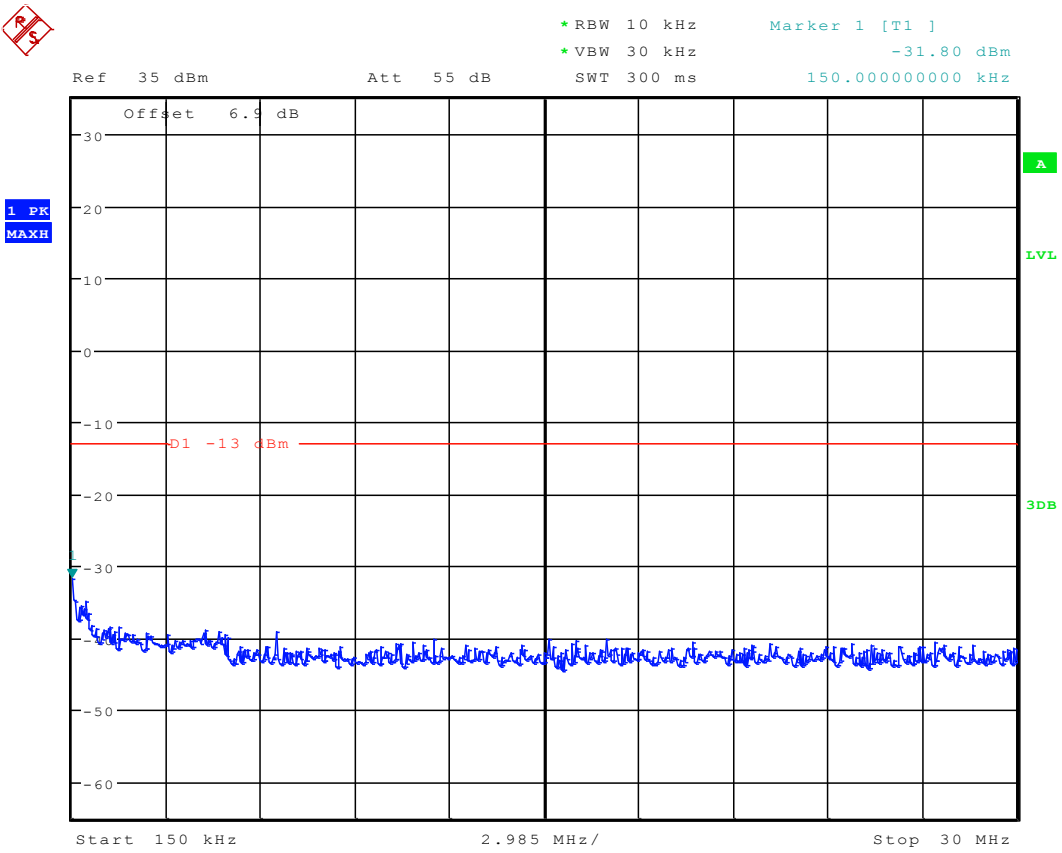


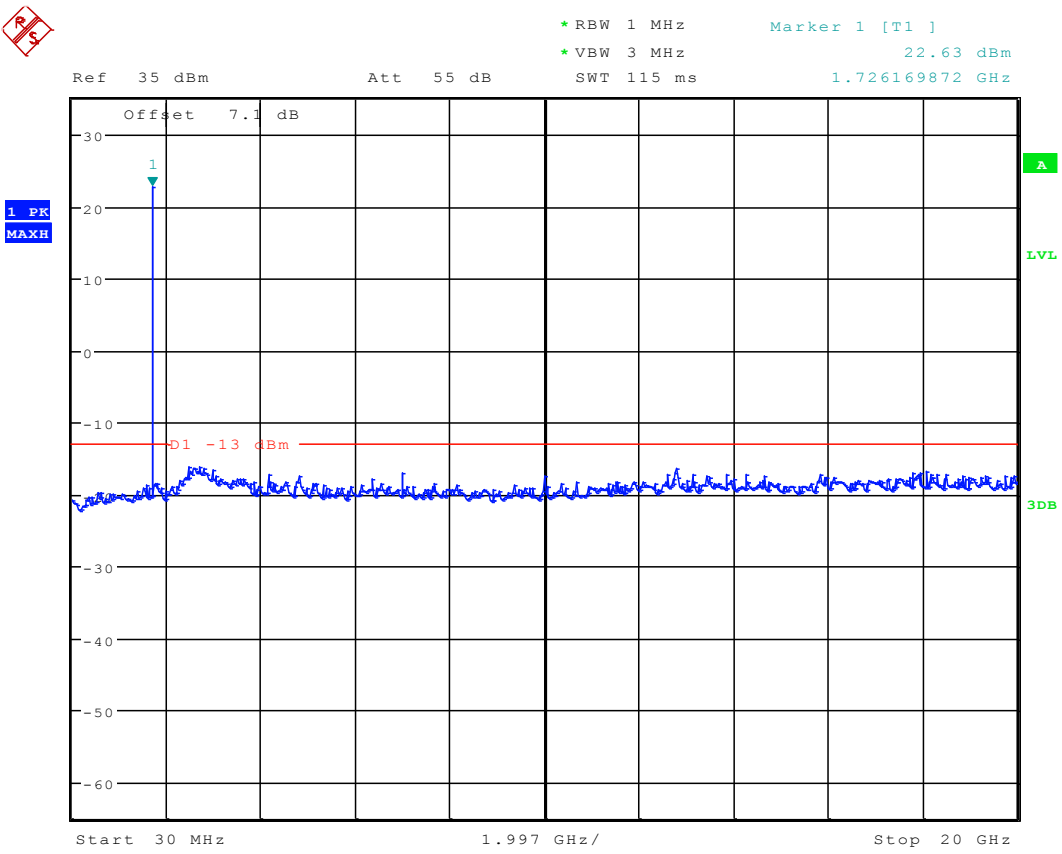

*RBW 10 kHz
*VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.51 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Start 150 kHz
2.985 MHz/
Stop 30 MHz


* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
23.64 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

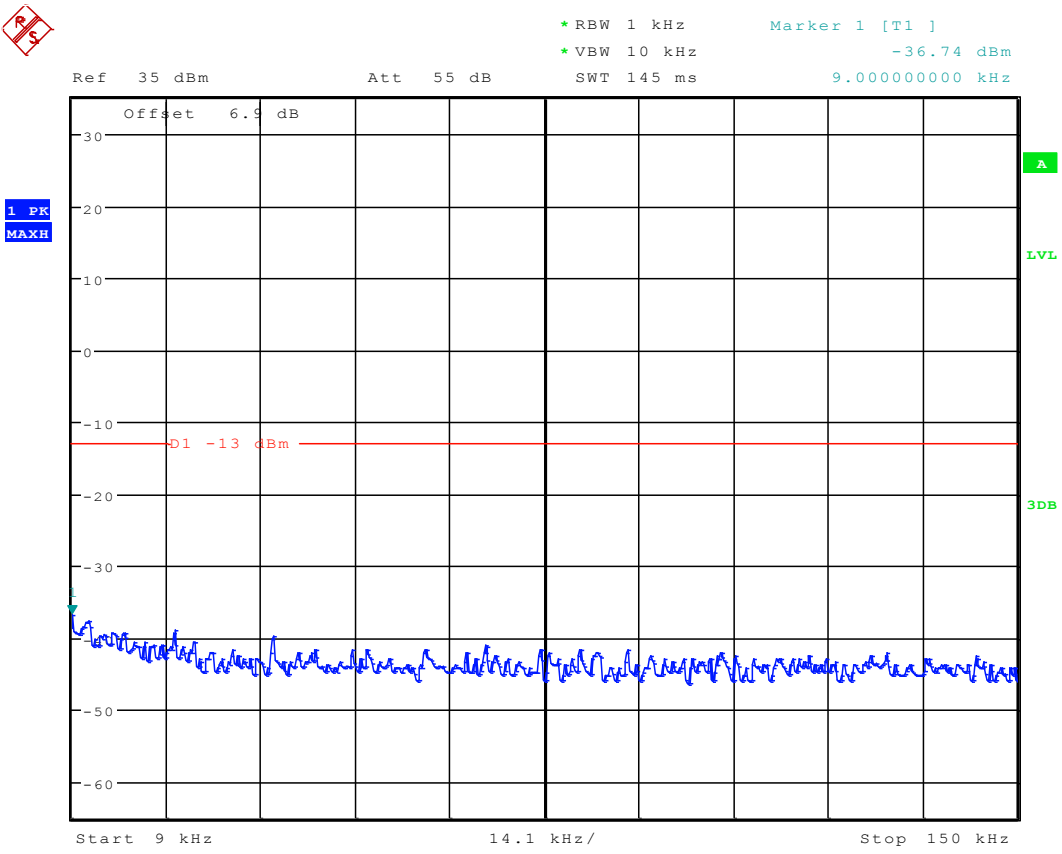
Channel 450

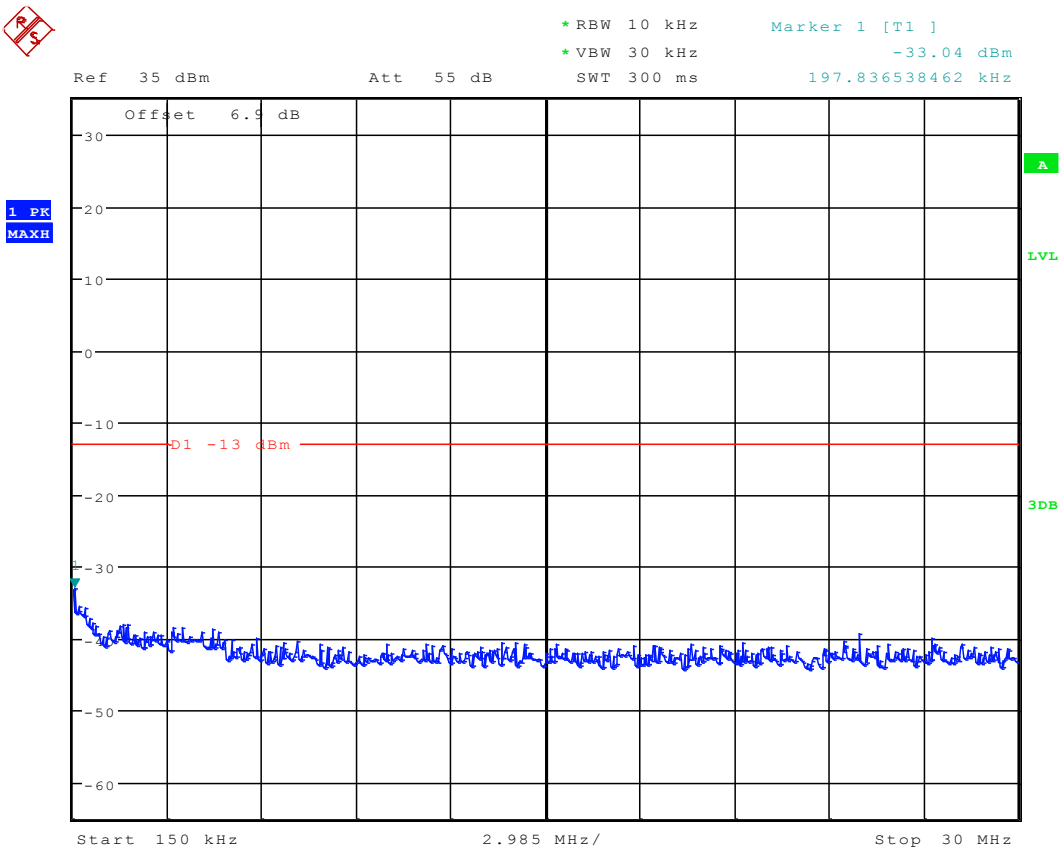

RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-35.27 dBm
9.677884615 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

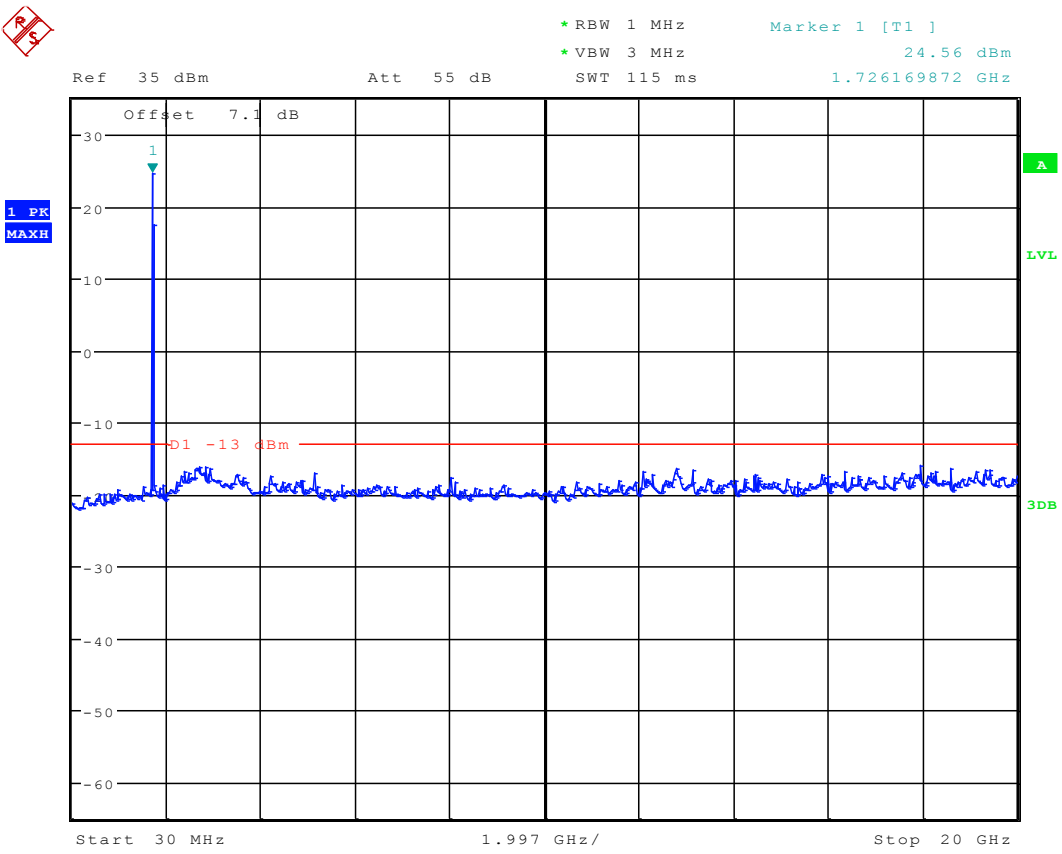

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.80 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
22.63 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Start 30 MHz
1.997 GHz/
Stop 20 GHz

Channel 875


RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-36.74 dBm
9.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

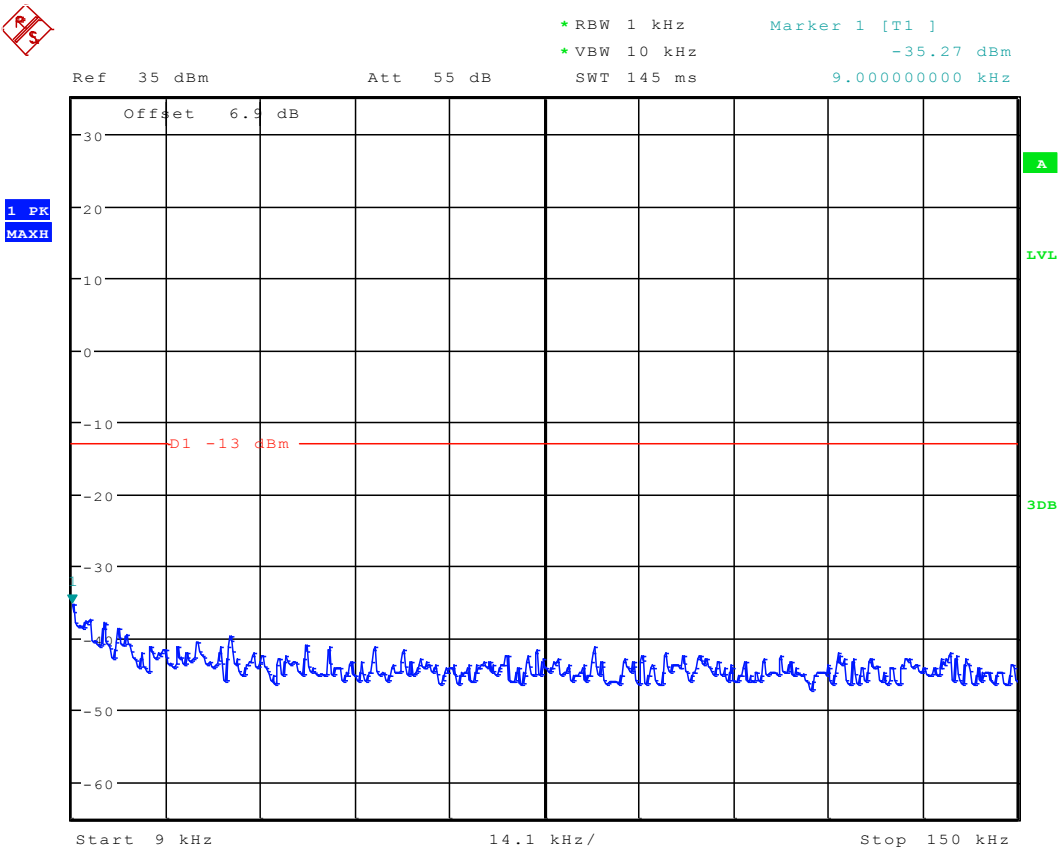

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-33.04 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz

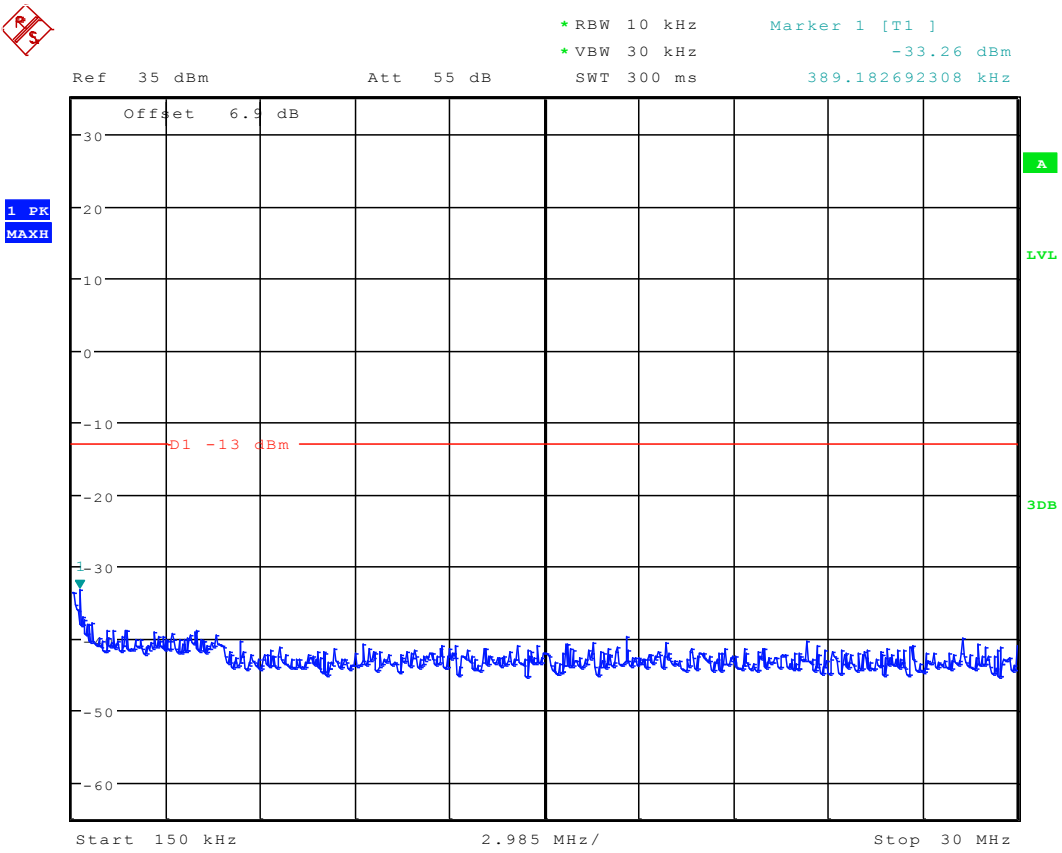

* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
24.56 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

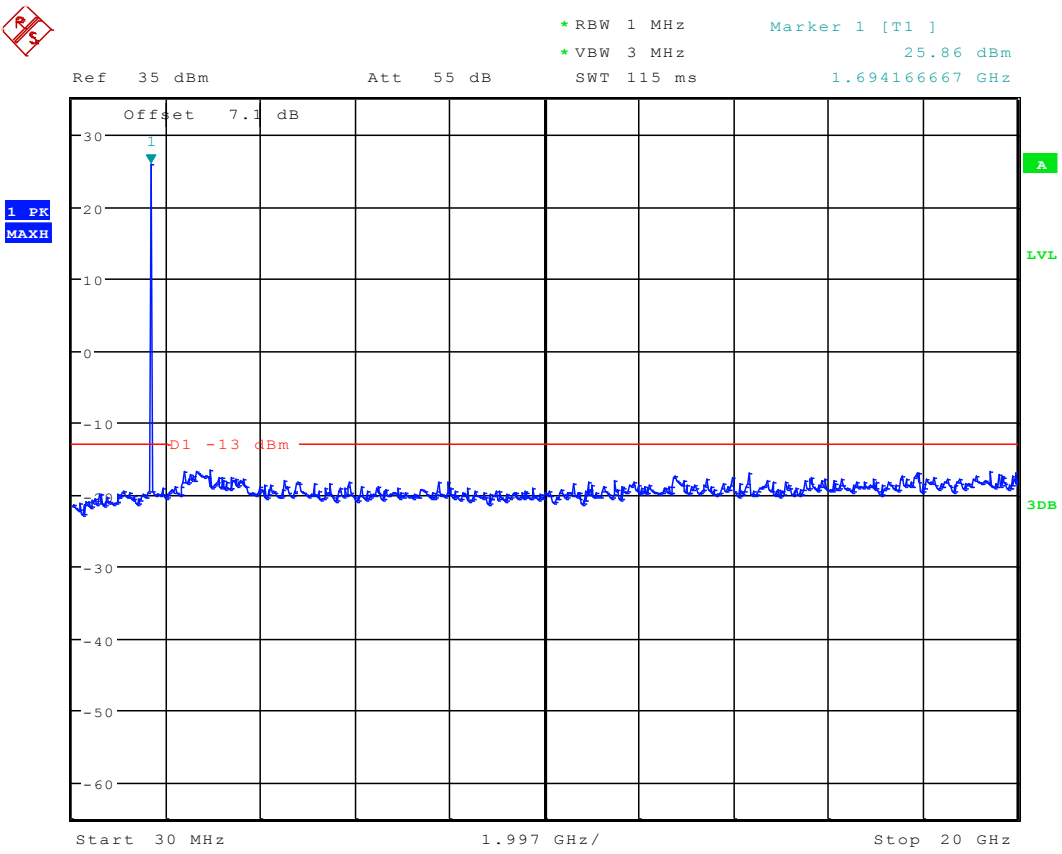
EVDO subtype 2

Modulation:BPSK

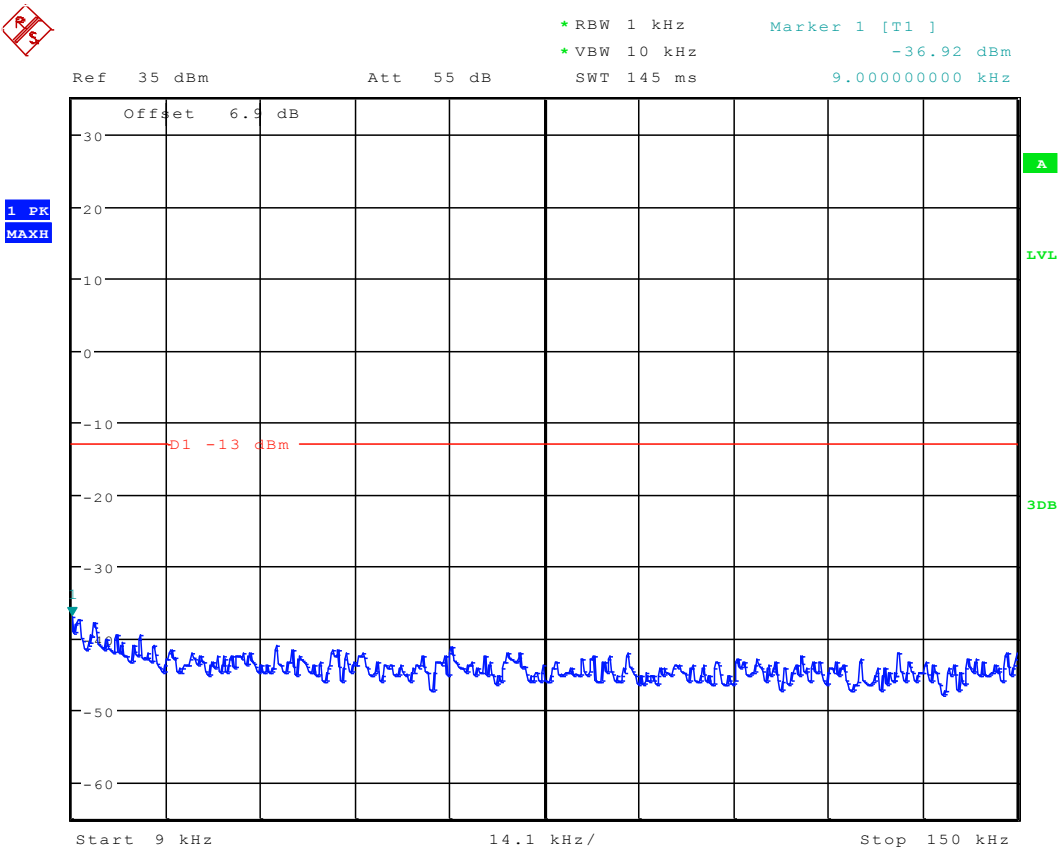
Channel 25

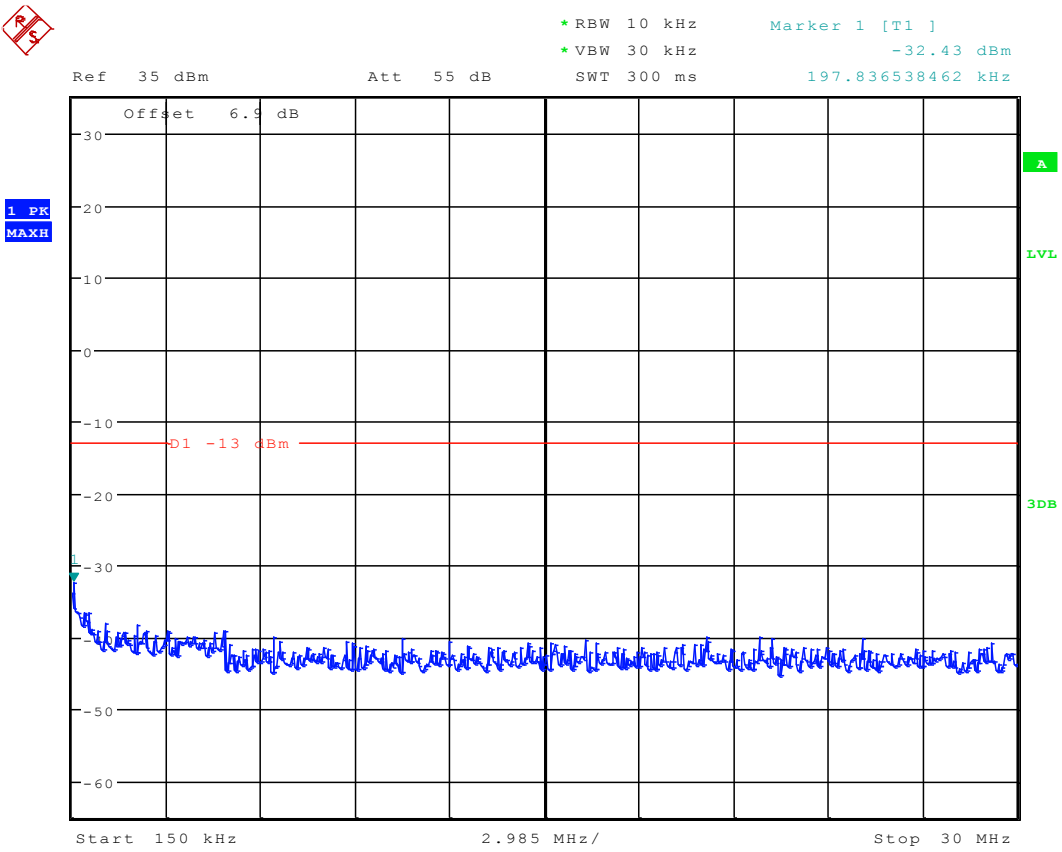


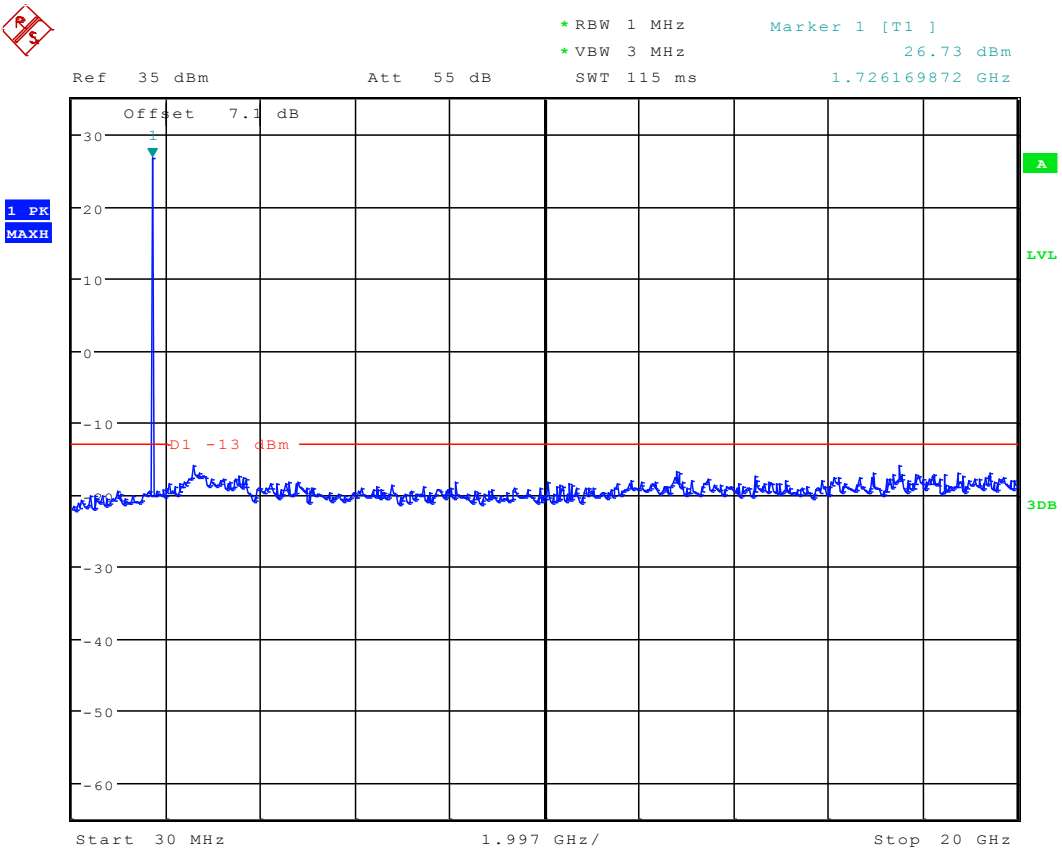

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-33.26 dBm
389.182692308 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.86 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

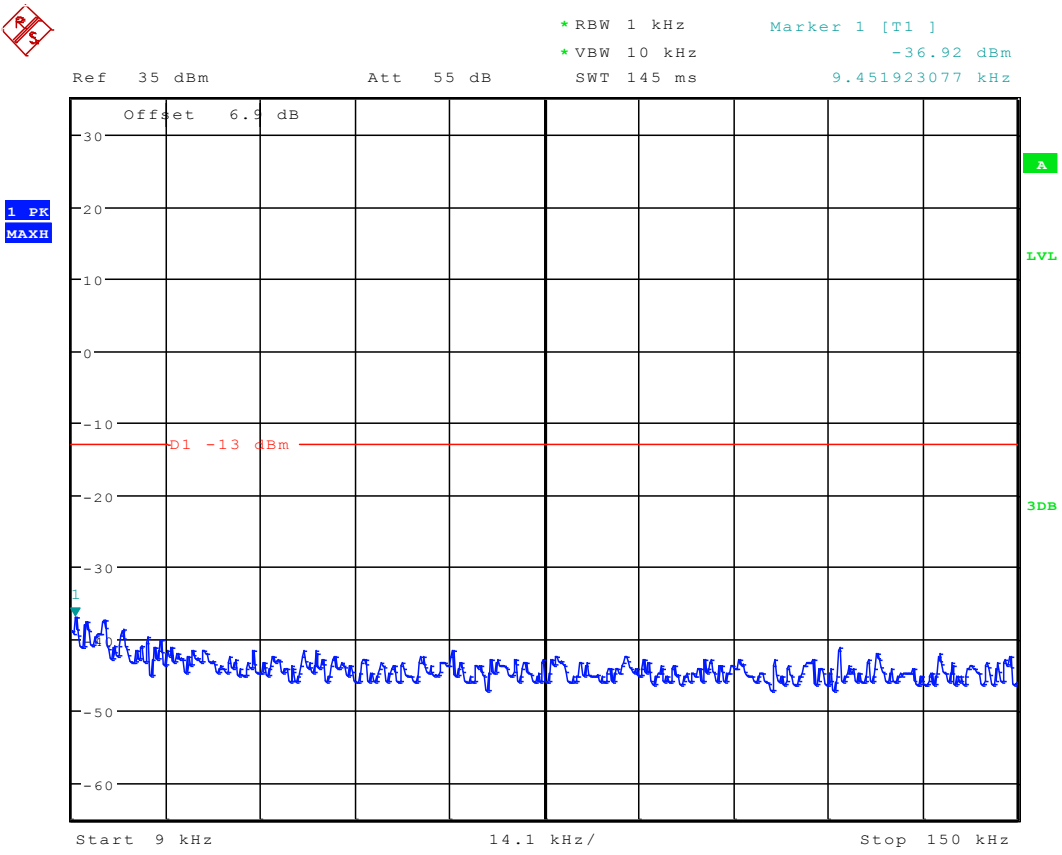
Channel 450

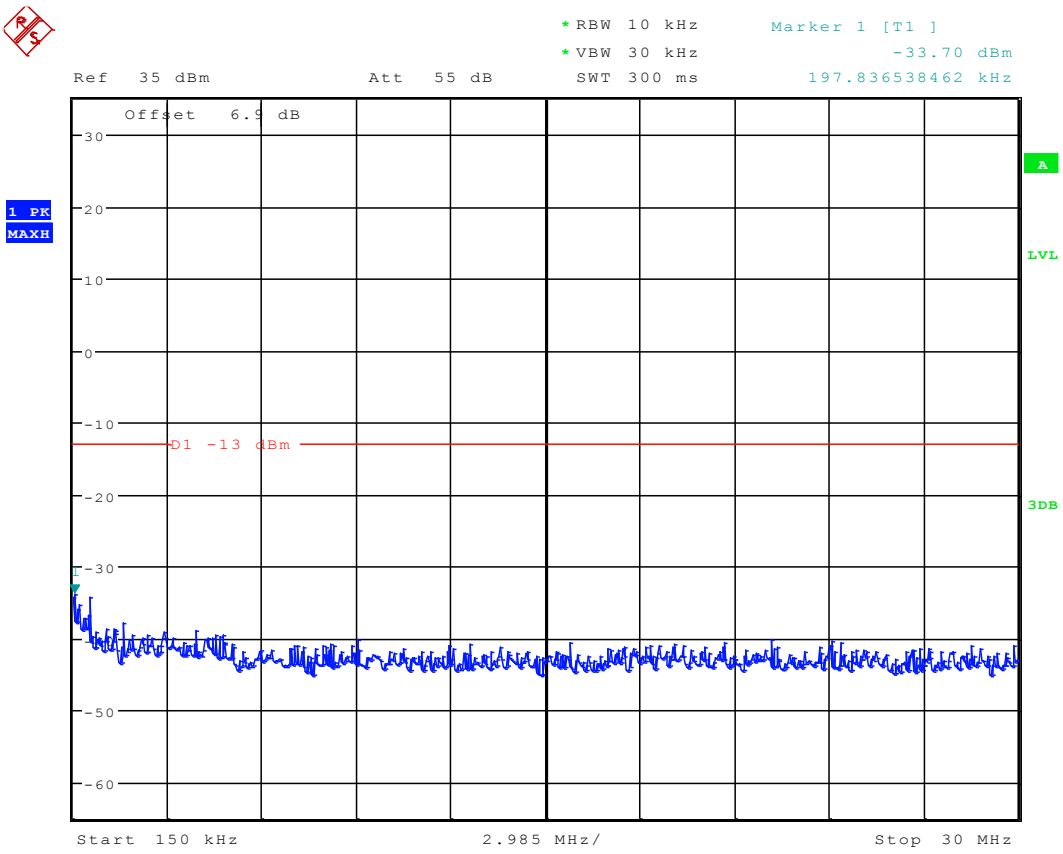

RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-36.92 dBm
9.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

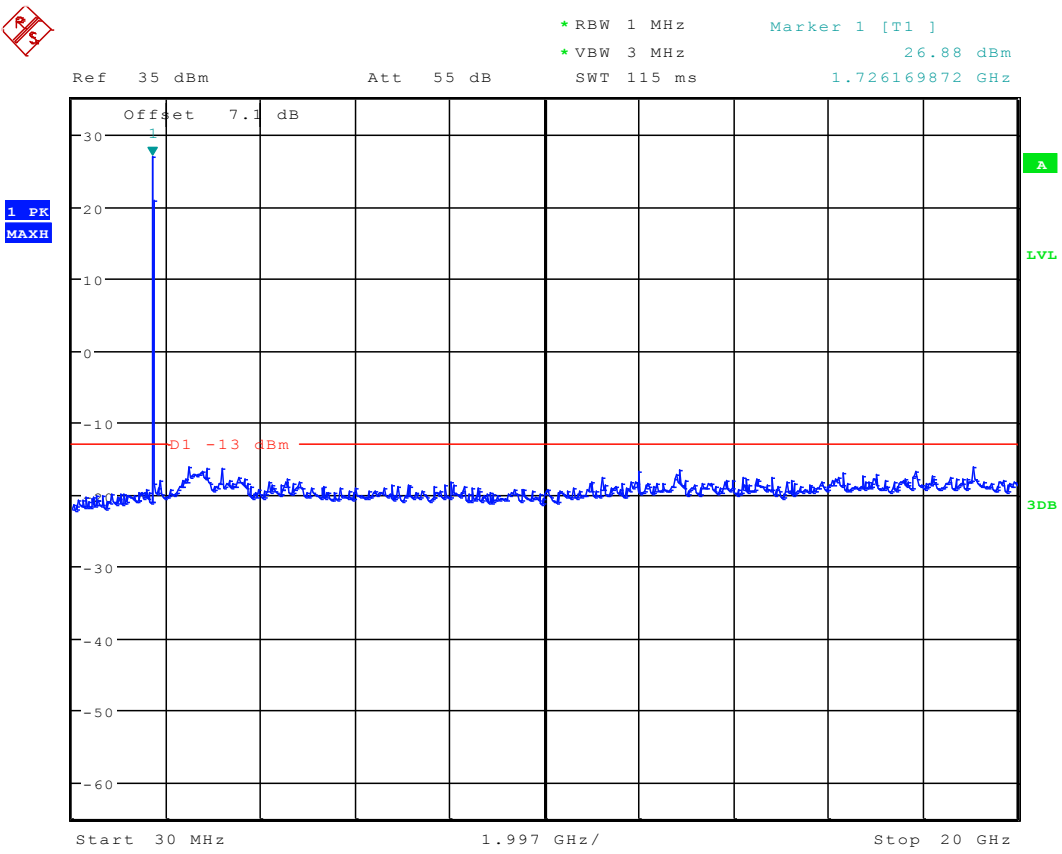

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.43 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
26.73 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

Channel 875


RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-36.92 dBm
9.451923077 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

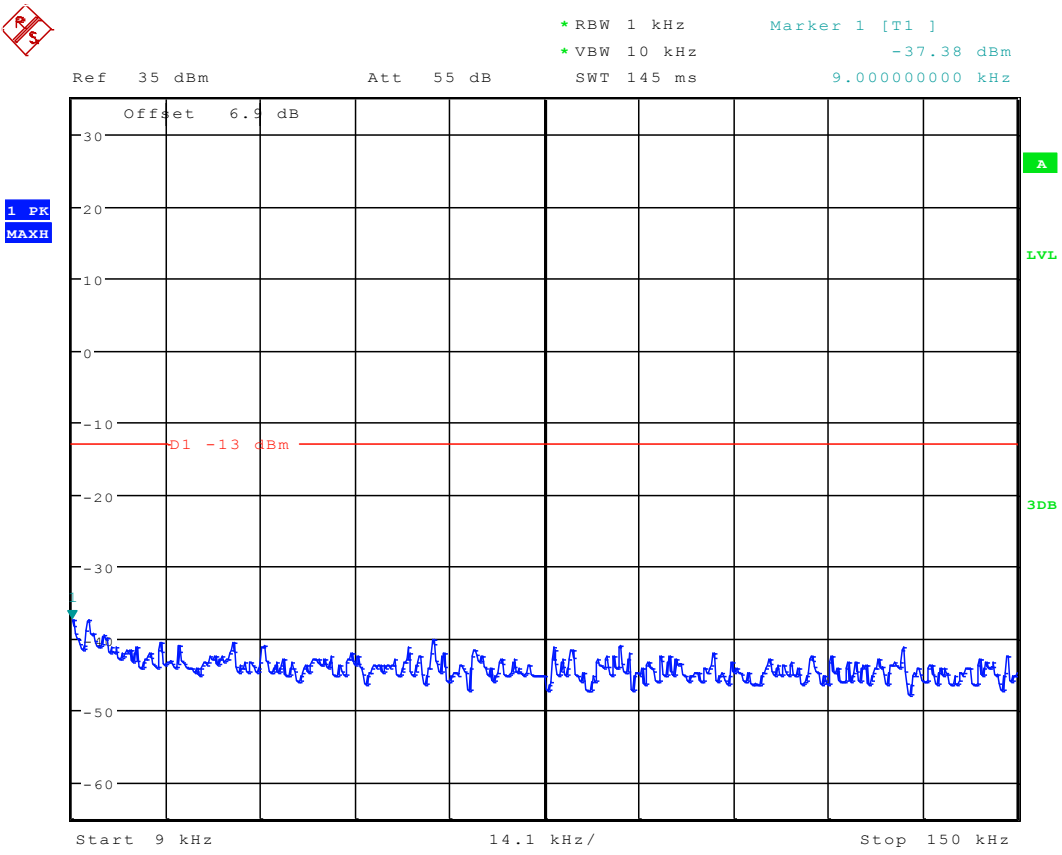

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-33.70 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz

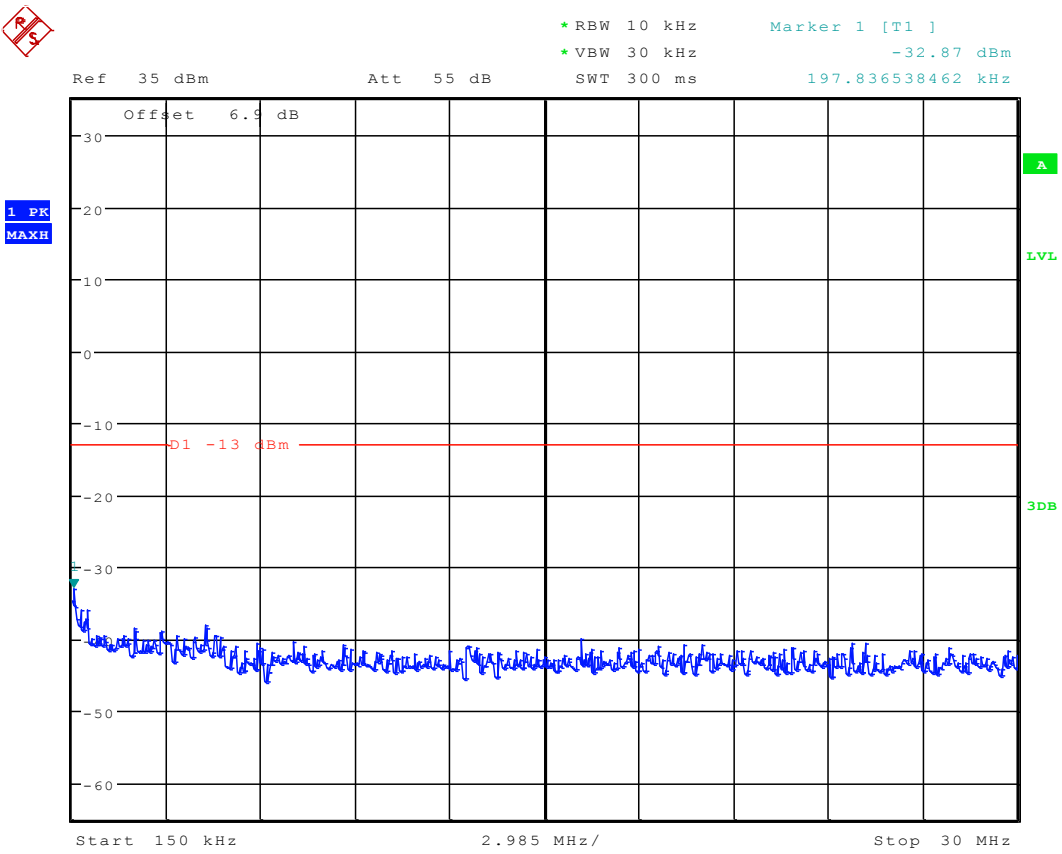

* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
26.88 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

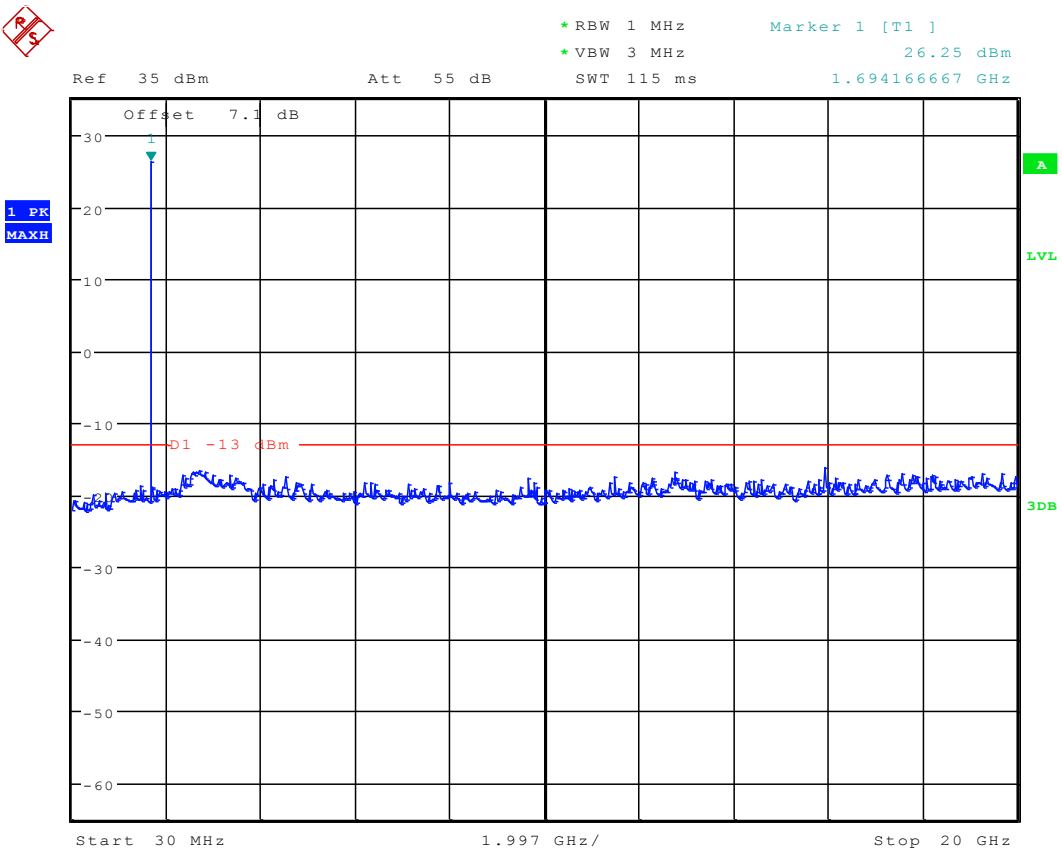
EVDO subtype 2

Modulation:QPSK

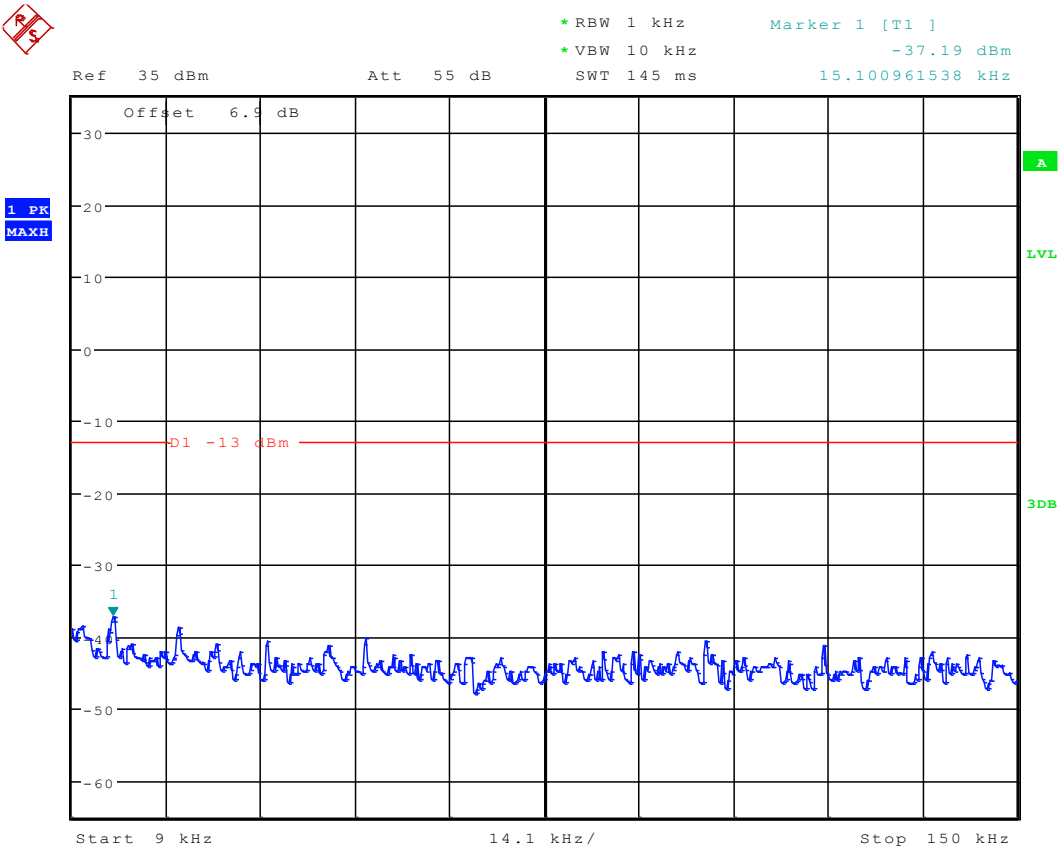
Channel 25

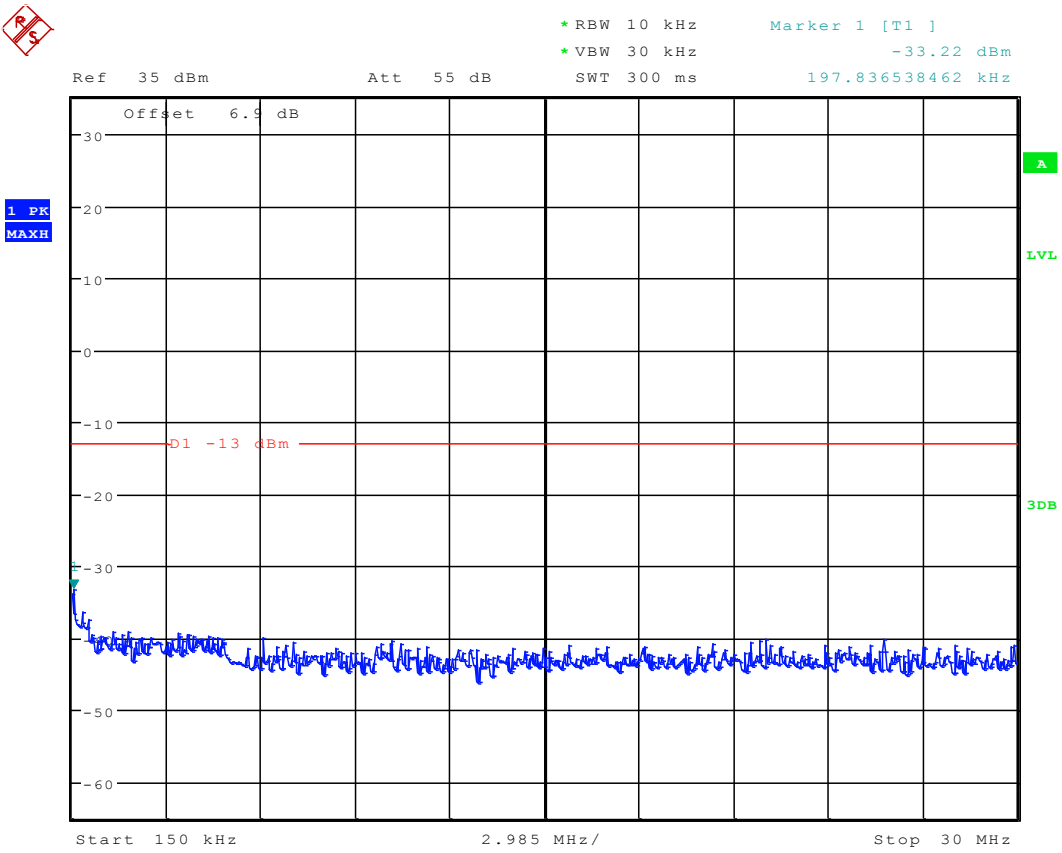


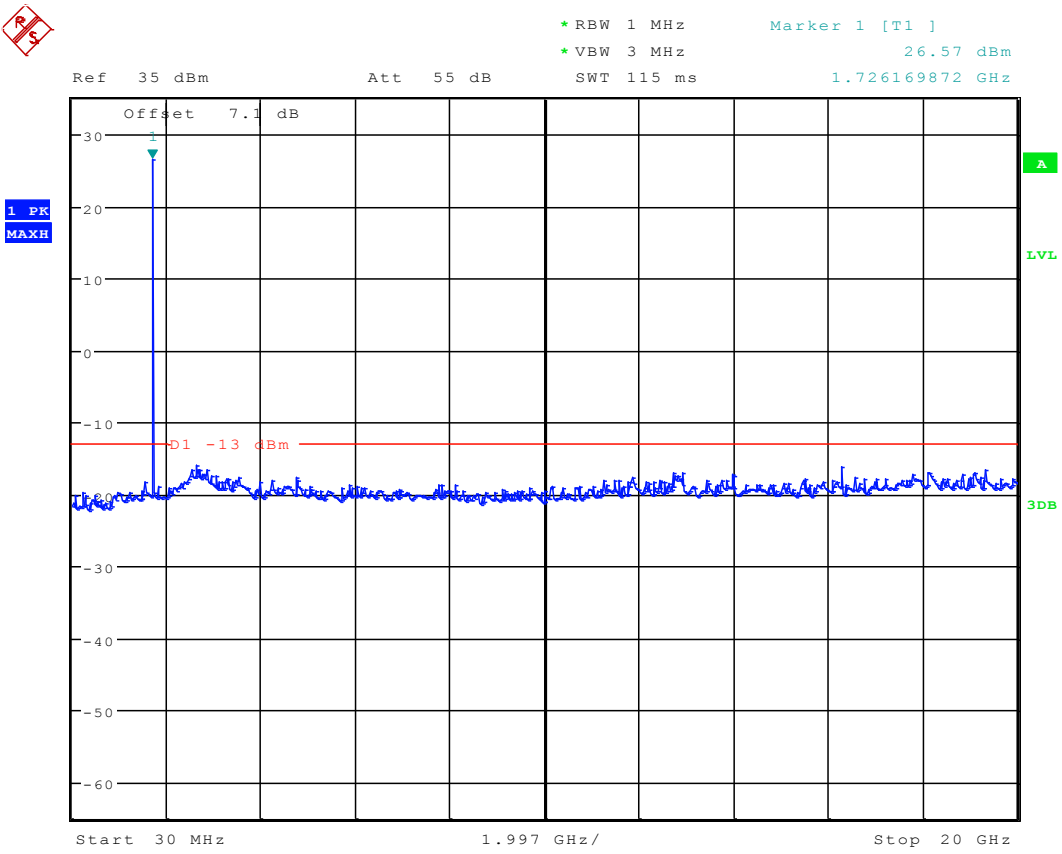

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.87 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
26.25 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

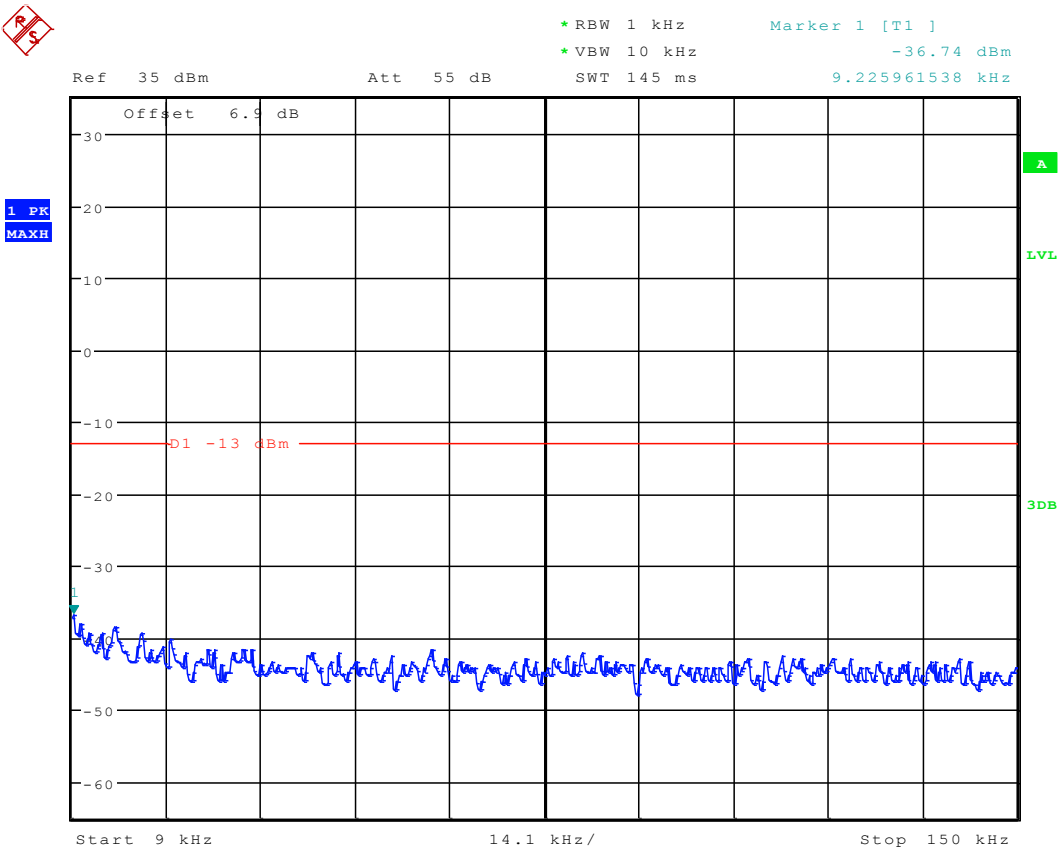
Channel 450

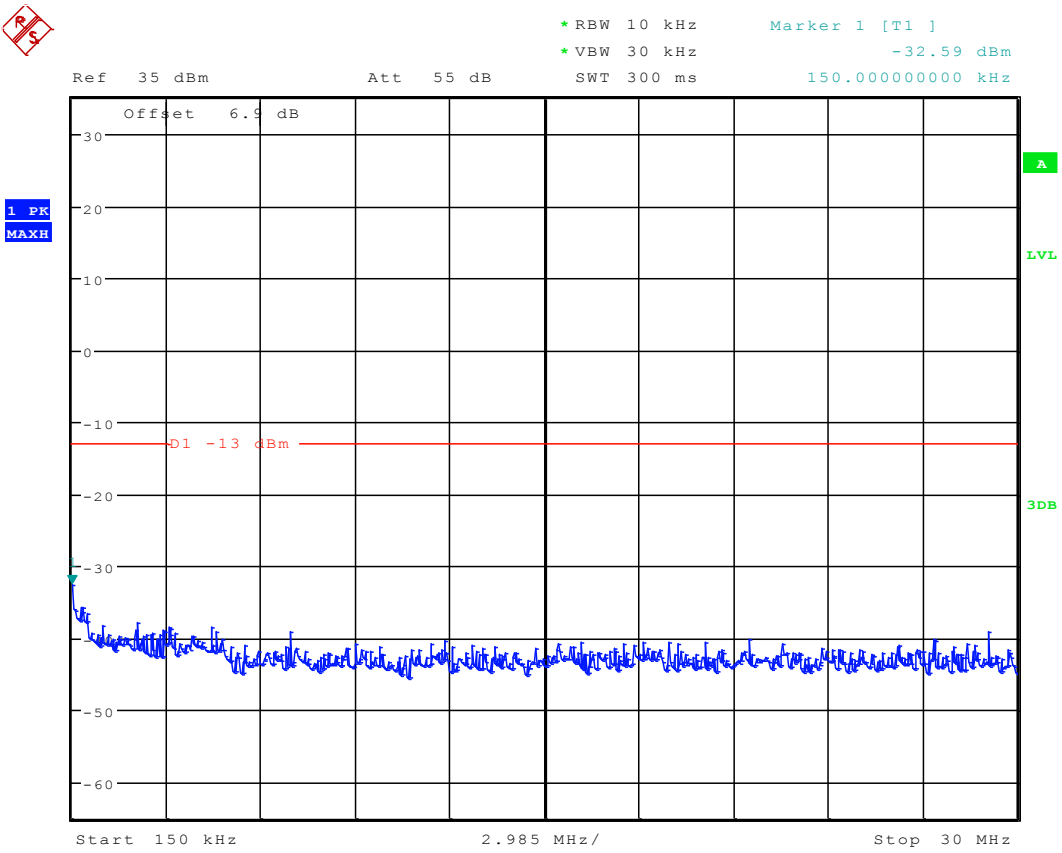

RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-37.19 dBm
15.100961538 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Start 9 kHz
14.1 kHz/
Stop 150 kHz

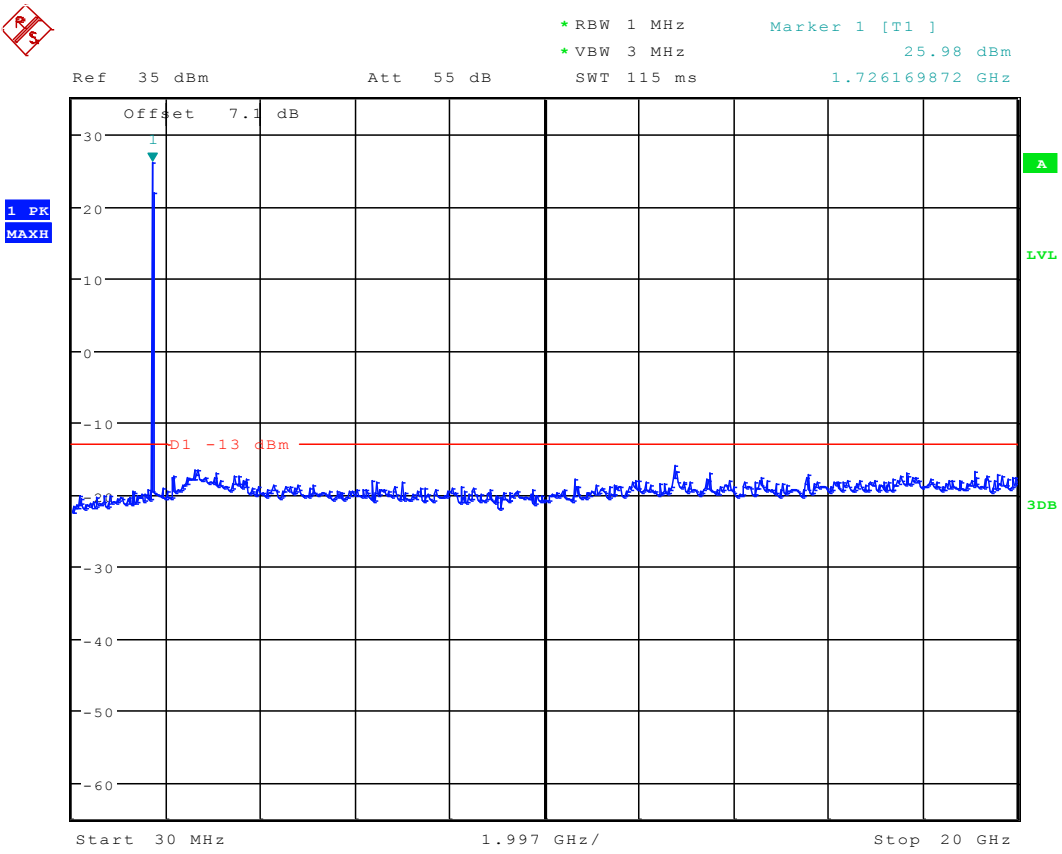

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-33.22 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
26.57 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

Channel 875


RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-36.74 dBm
9.225961538 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

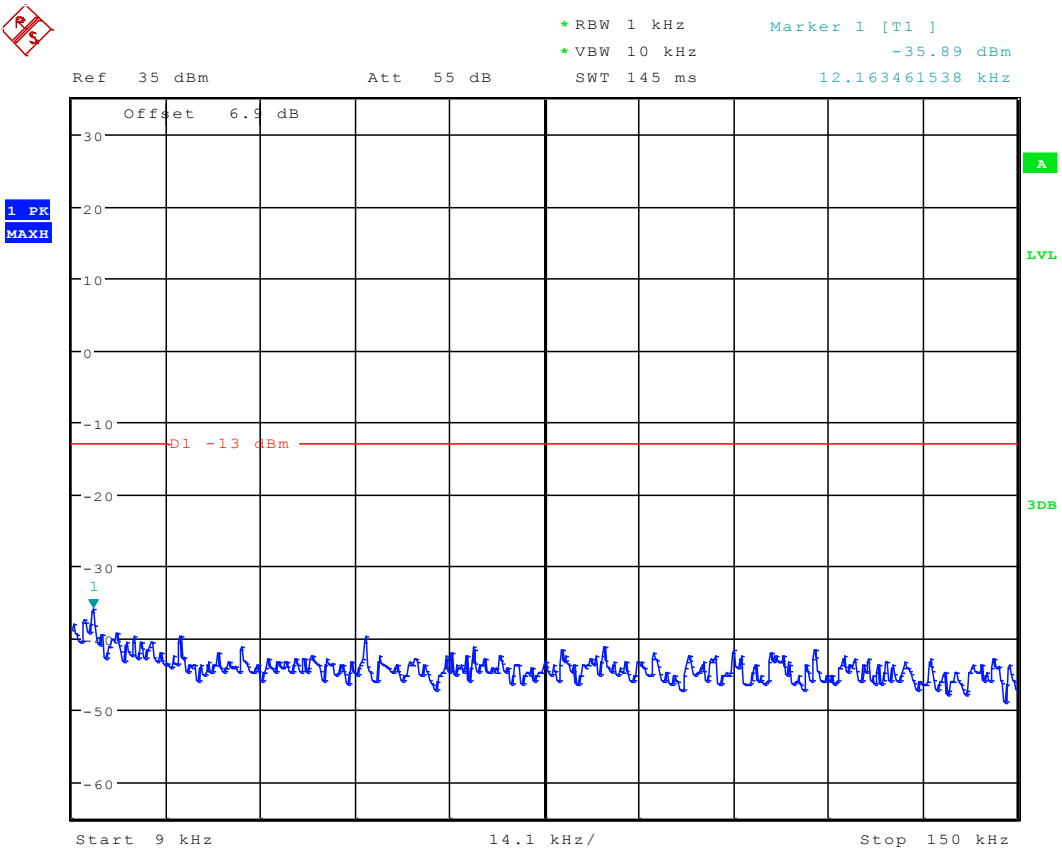

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.59 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz

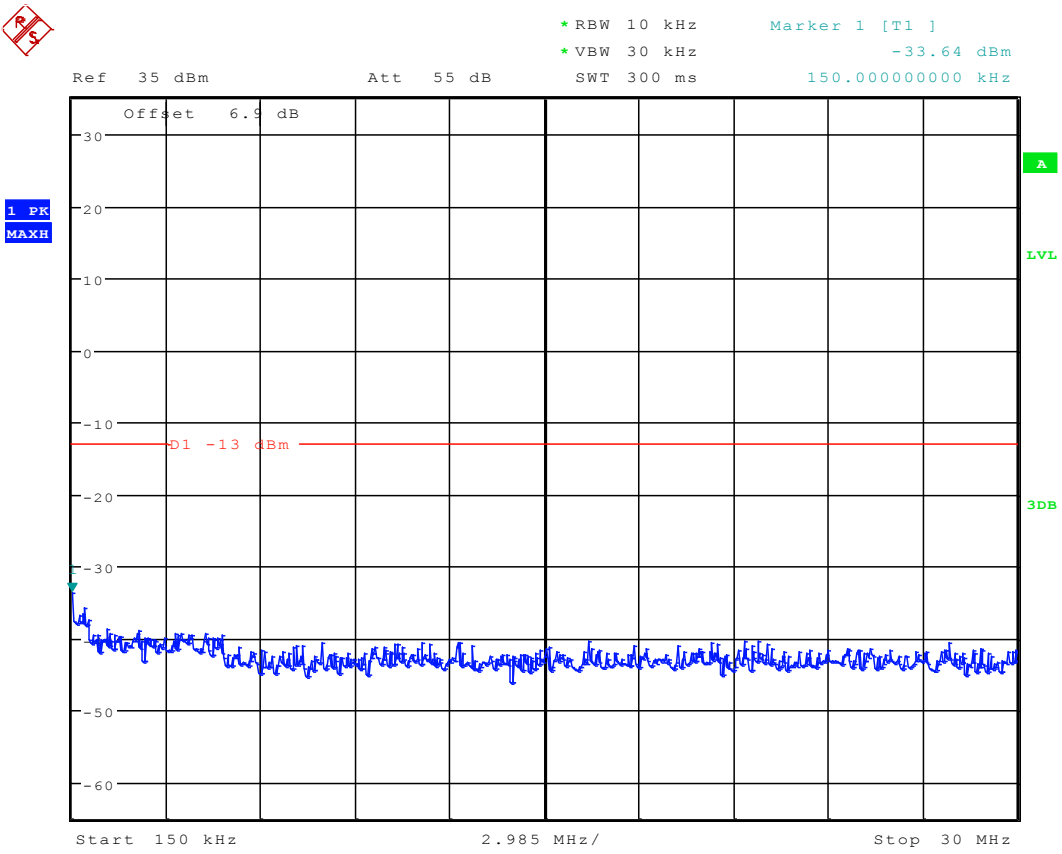

* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.98 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

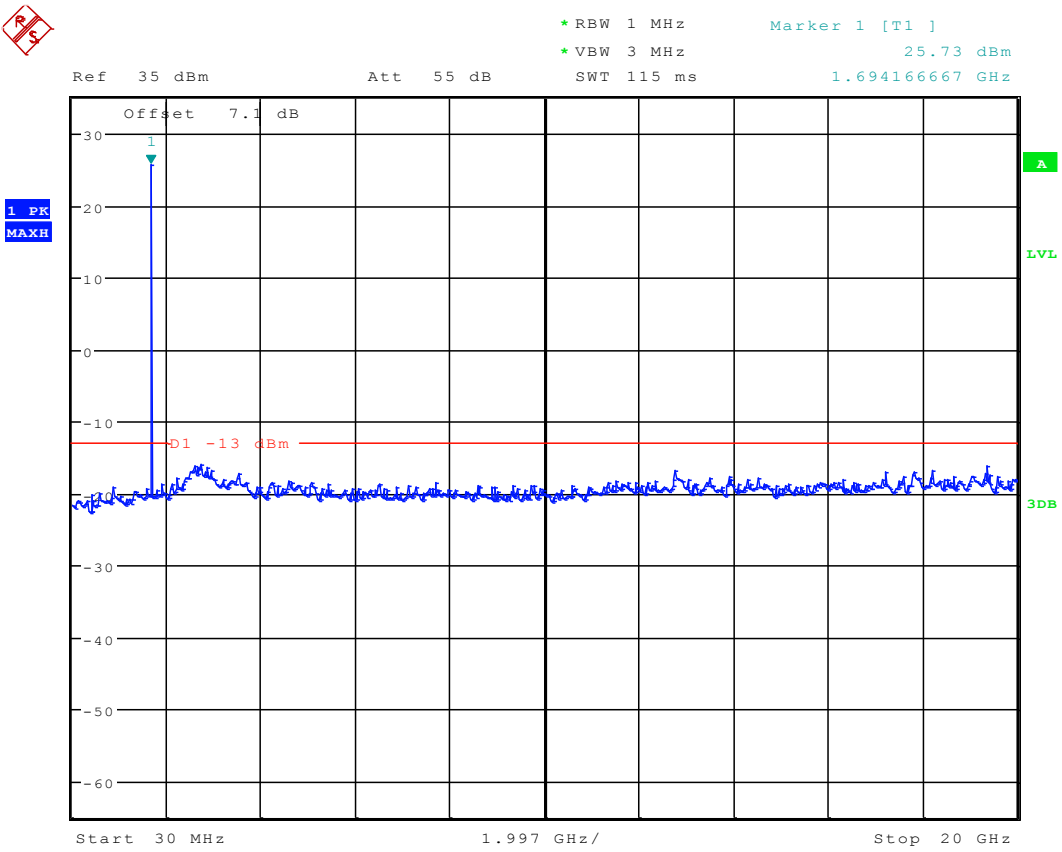
EVDO subtype 2

Modulation:8PSK

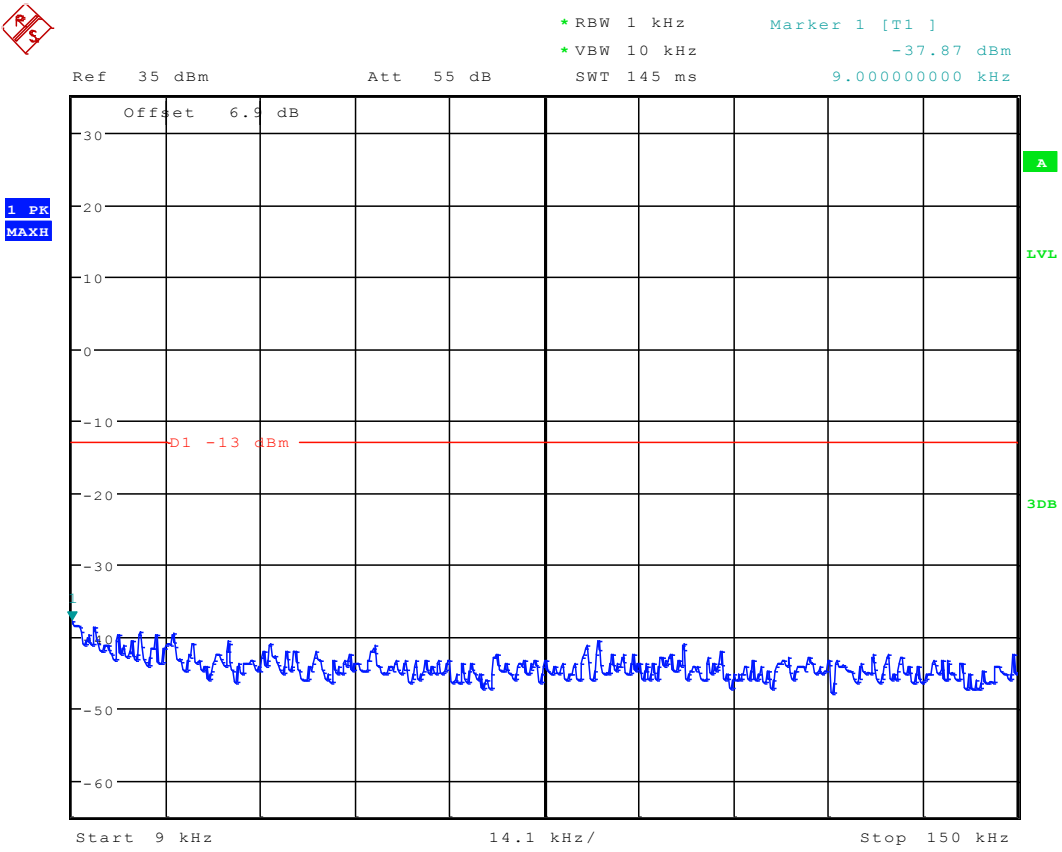
Channel 25

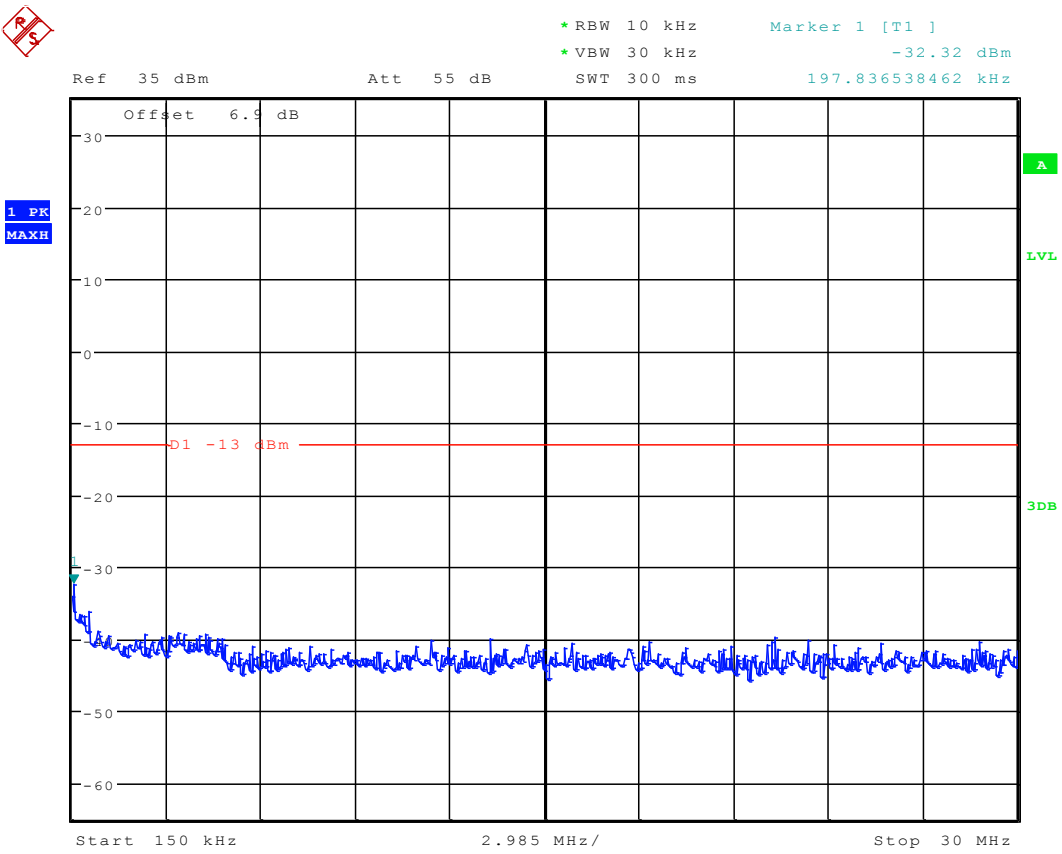


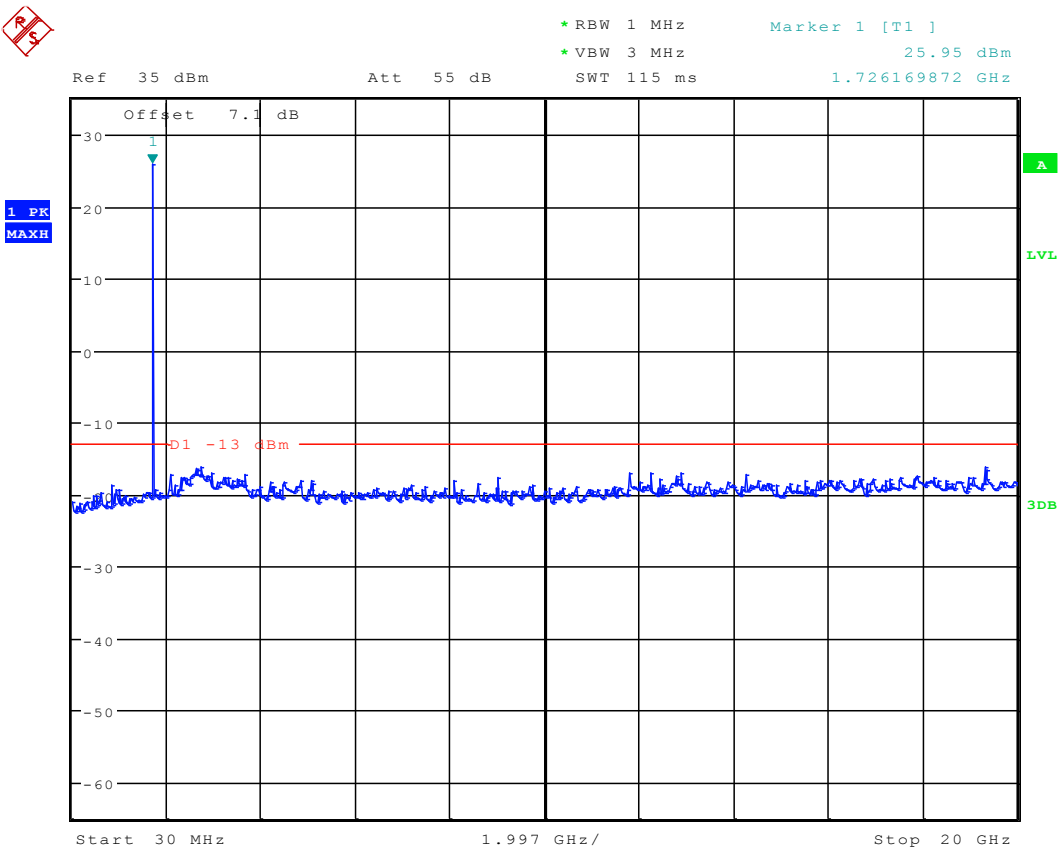

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-33.64 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


* RBW 1 MHz
* VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.73 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

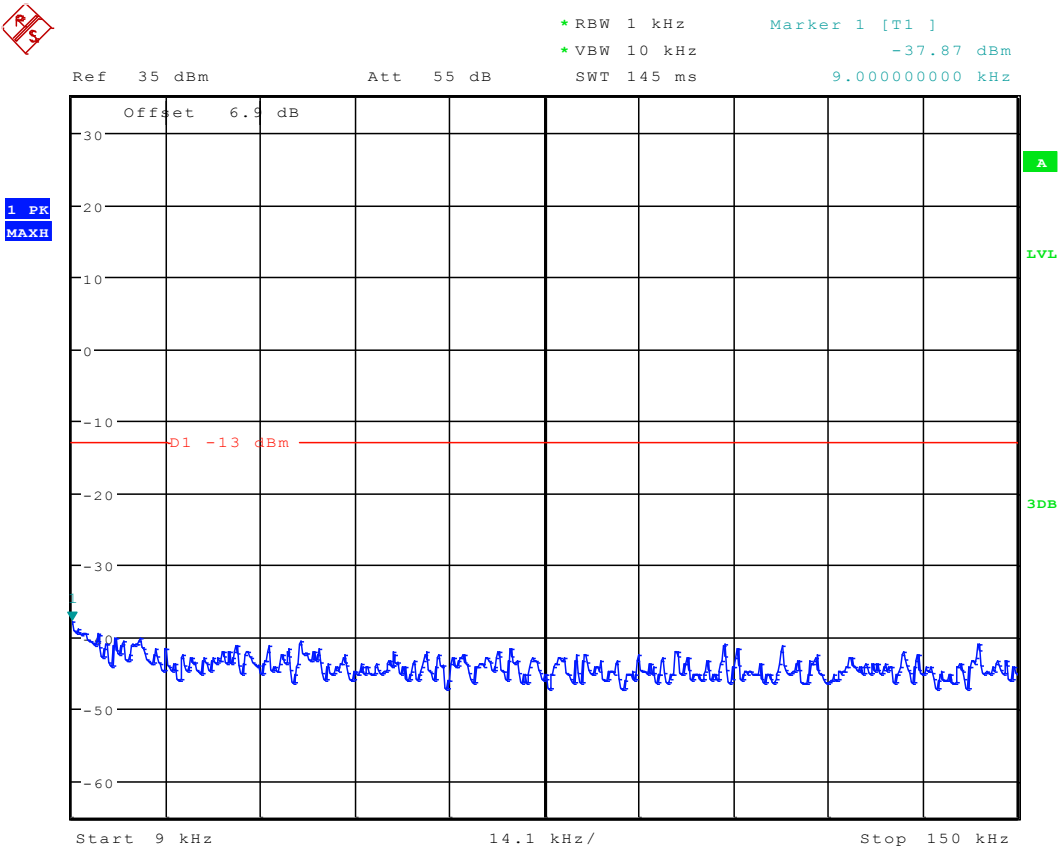
Channel 450

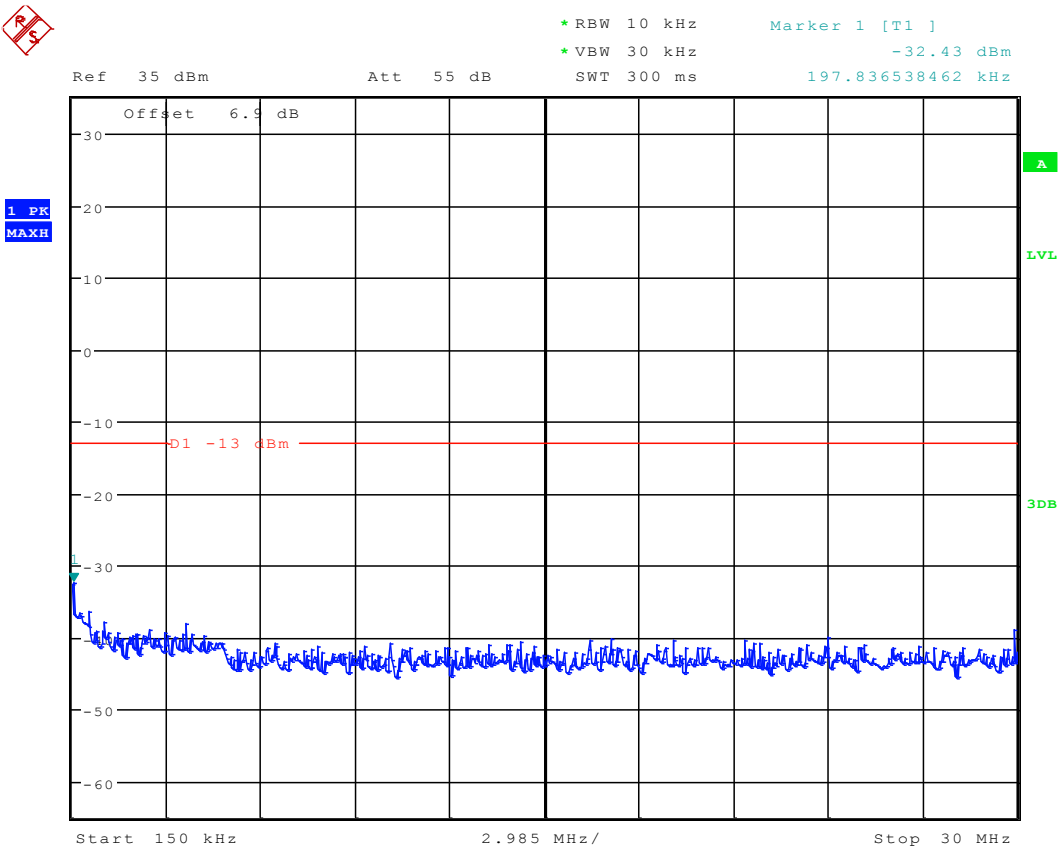

RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-37.87 dBm
9.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

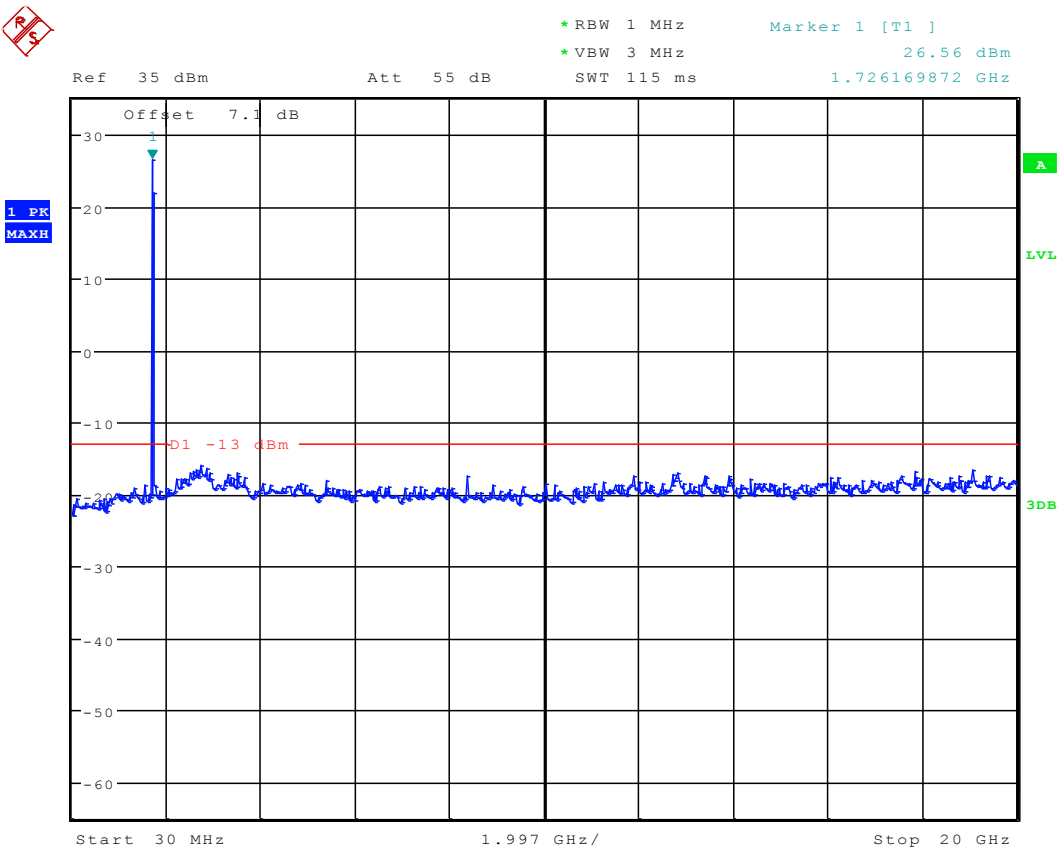

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.32 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
25.95 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

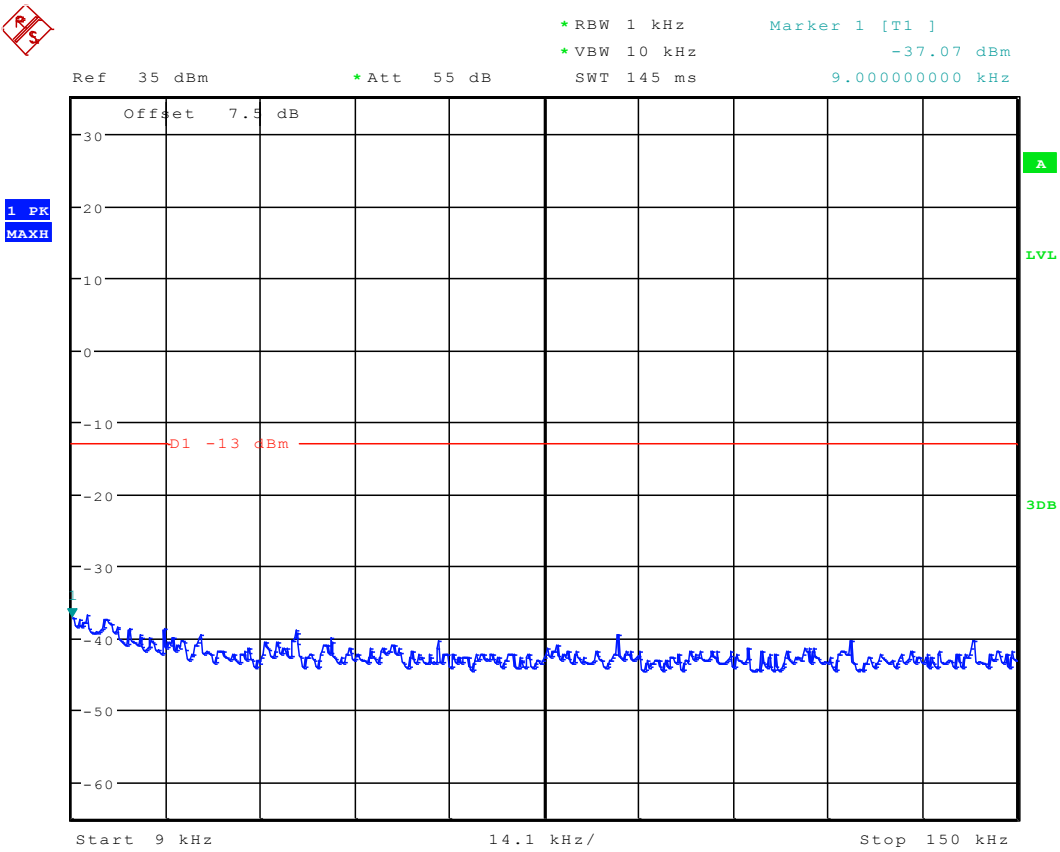
Channel 875

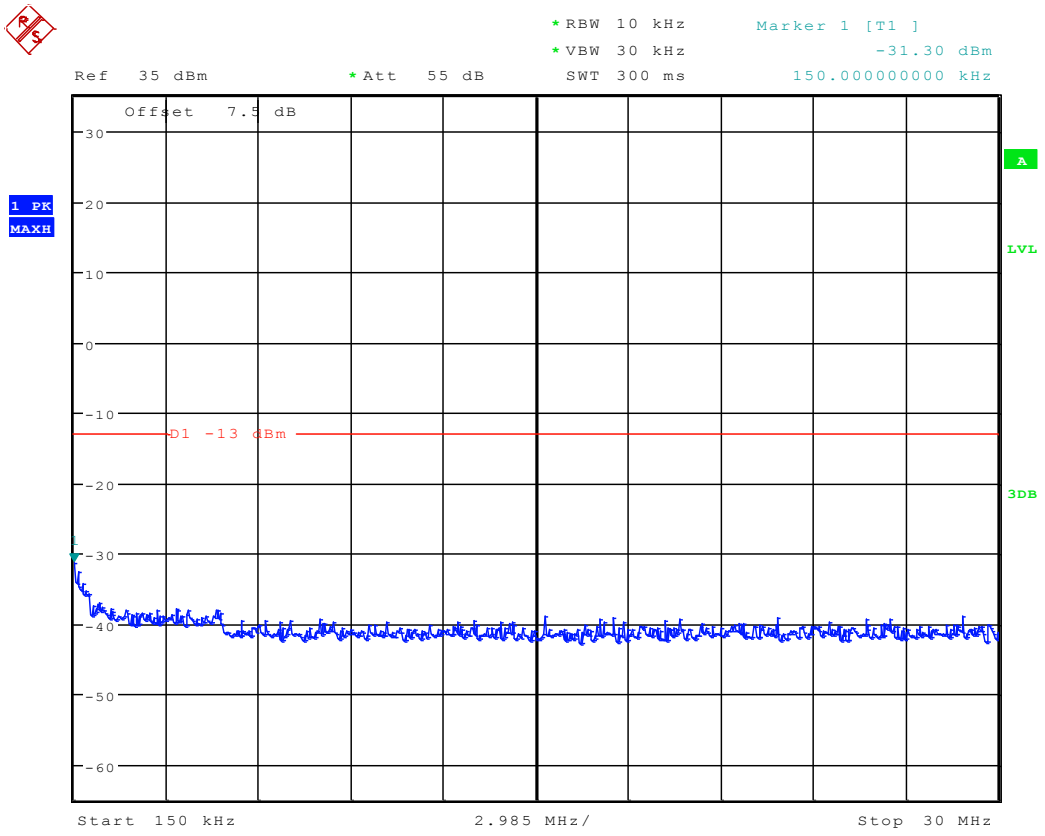

RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-37.87 dBm
9.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 9 kHz
14.1 kHz/
Stop 150 kHz

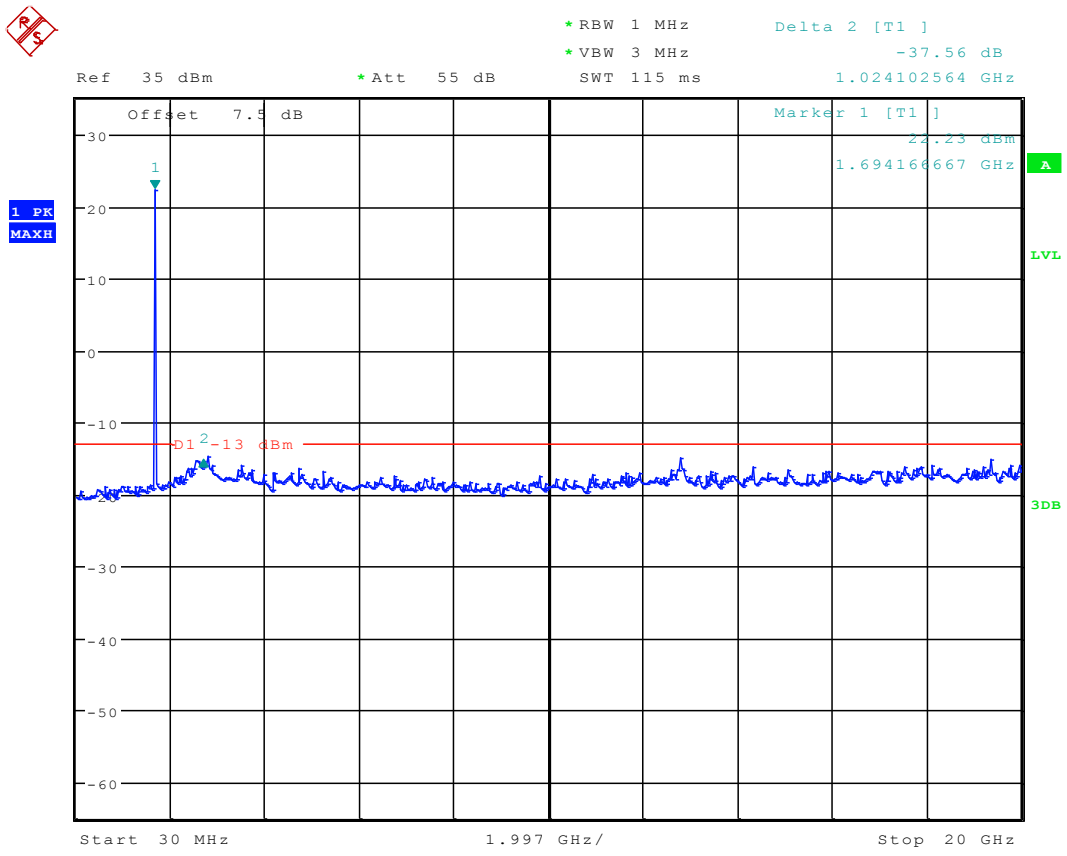

* RBW 10 kHz
* VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.43 dBm
197.836538462 kHz
Ref 35 dBm
Att 55 dB
Offset 6.9 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


*RBW 1 MHz
*VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
26.56 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.1 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

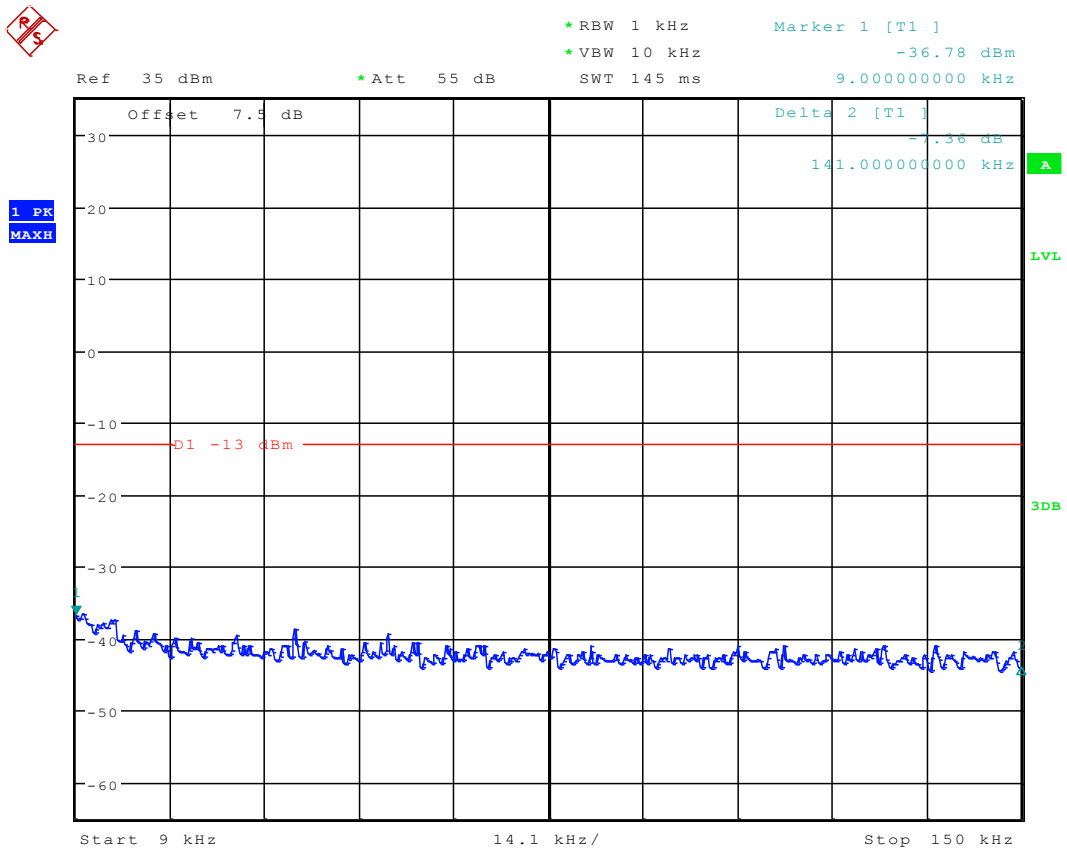
TM4
1.4MHz(BW)
Channel 19957

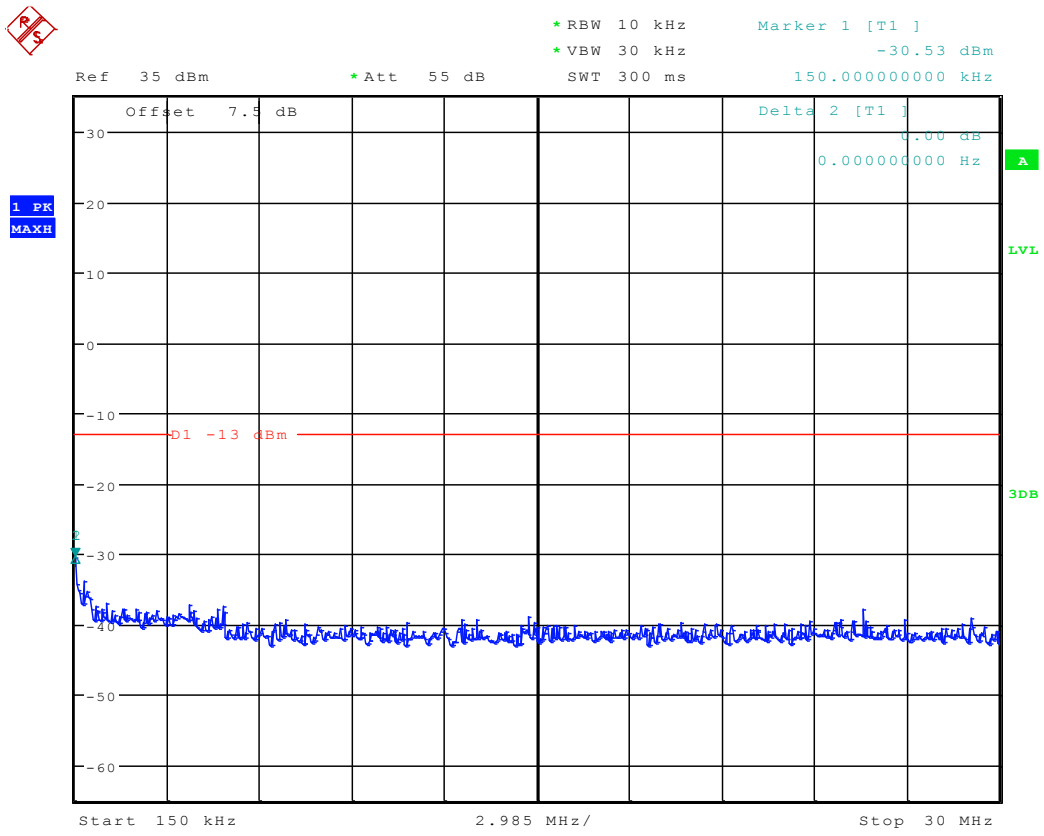


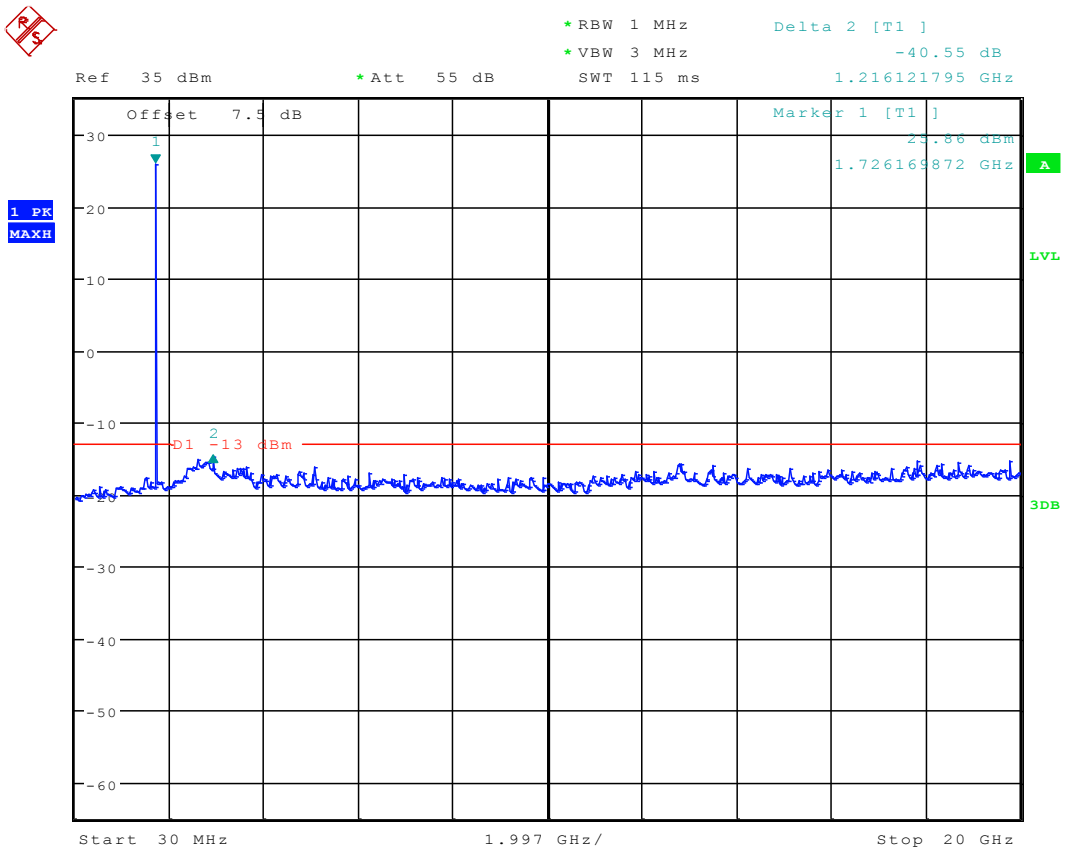

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.30 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-37.56 dB
1.024102564 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
22.23 dBm
1.694166667 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

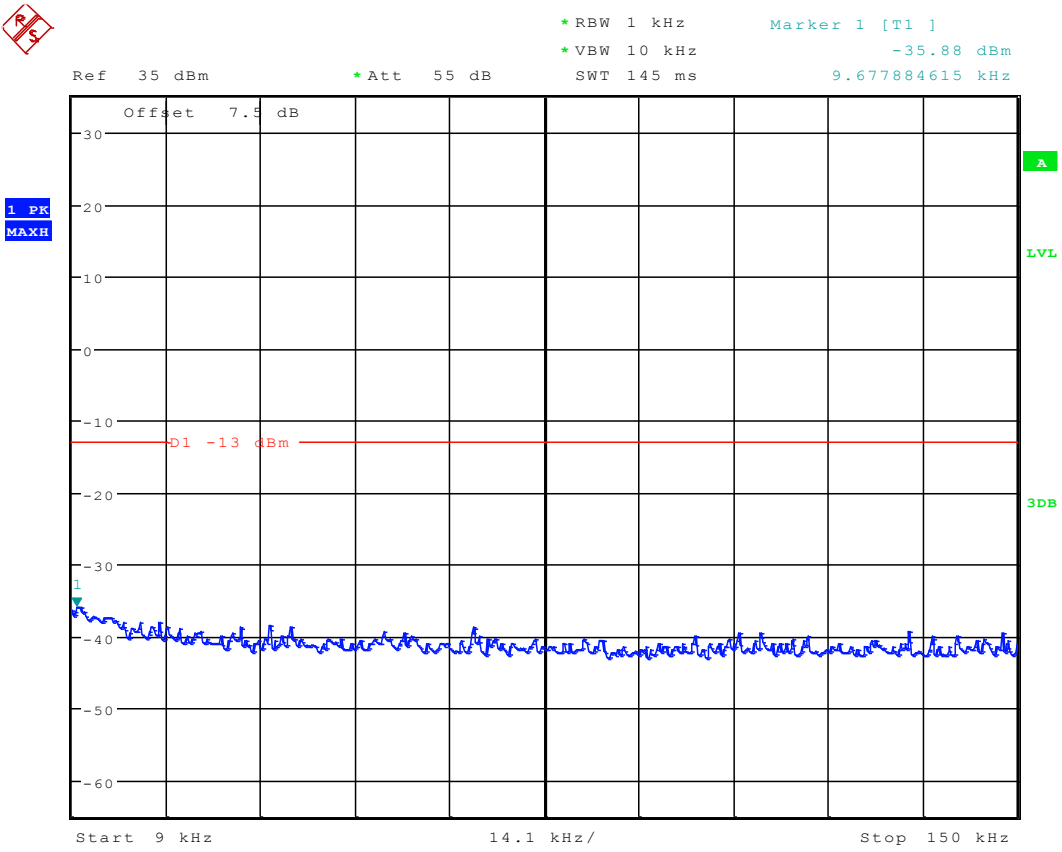
1.4MHz(BW)
Channel
20175

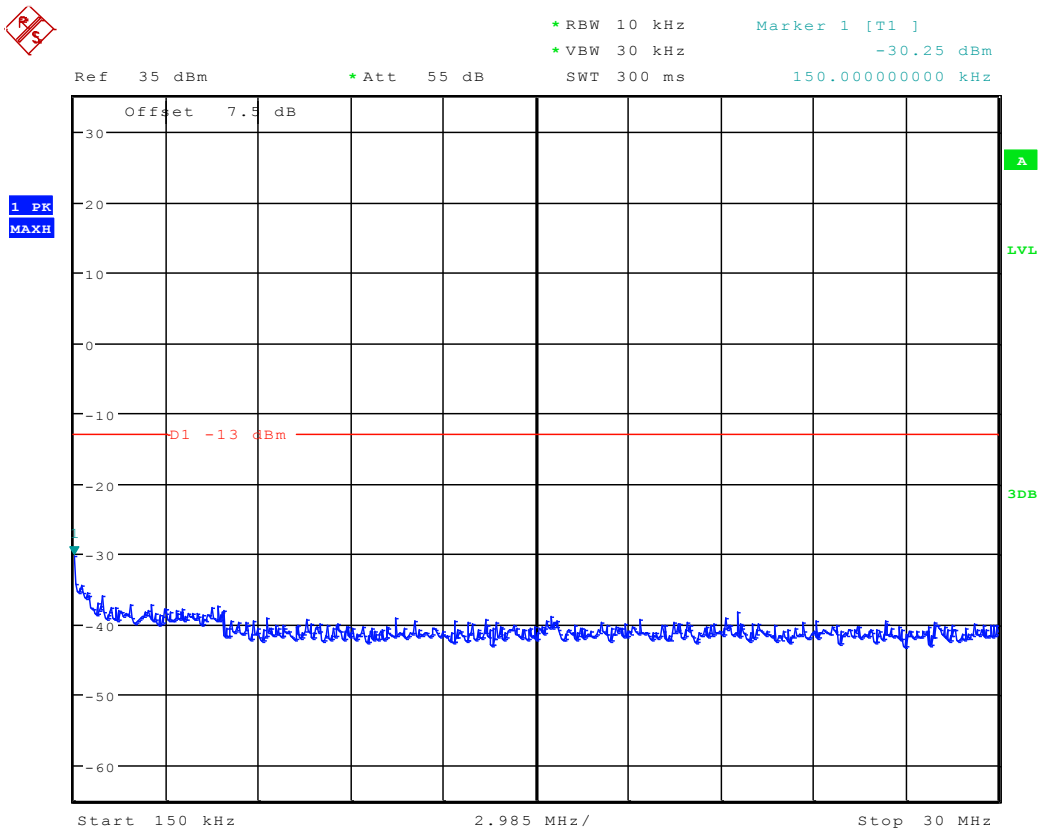


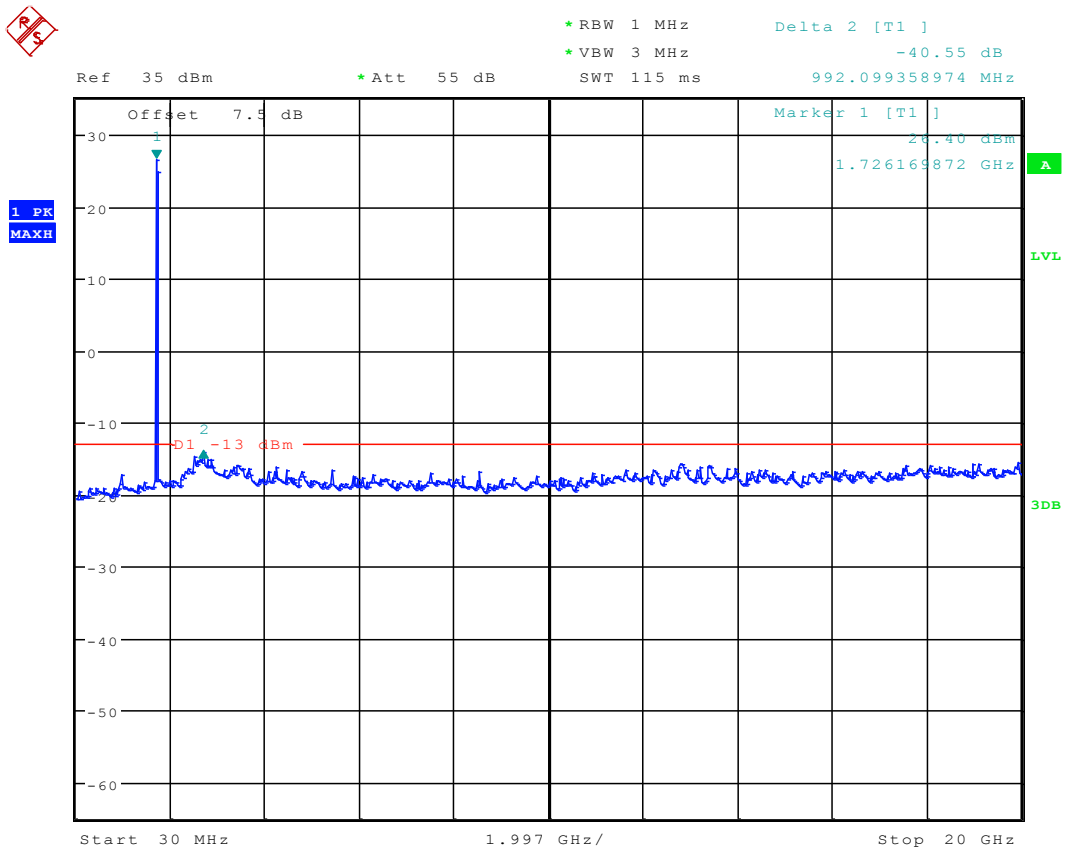

RBW 10 kHz
VBW 30 kHz
Ref 35 dBm
Att 55 dB
SWT 300 ms
Marker 1 [T1]
-30.53 dBm
150.000000000 kHz
Offset 7.5 dB
Delta 2 [T1]
0.00 dB
0.000000000 Hz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-40.55 dB
1.216121795 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
23.86 dBm
1.726169872 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Start 30 MHz
1.997 GHz/
Stop 20 GHz

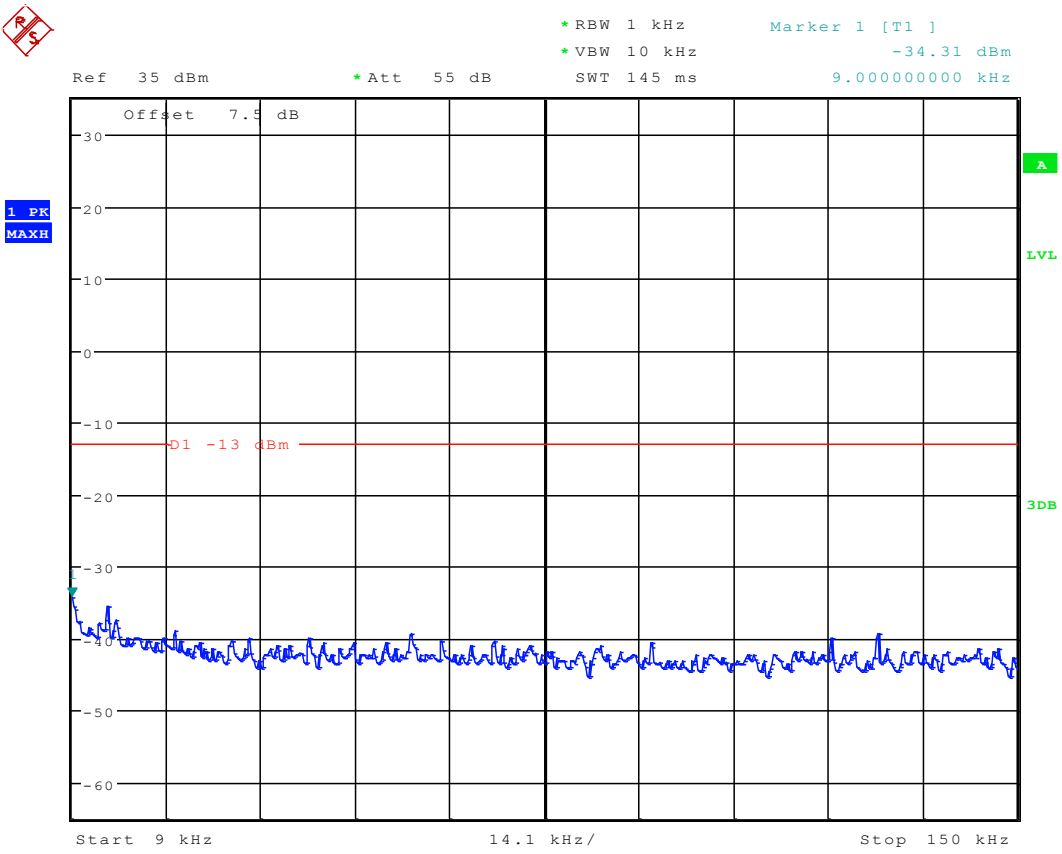
1.4MHz(BW)
Channel 20393

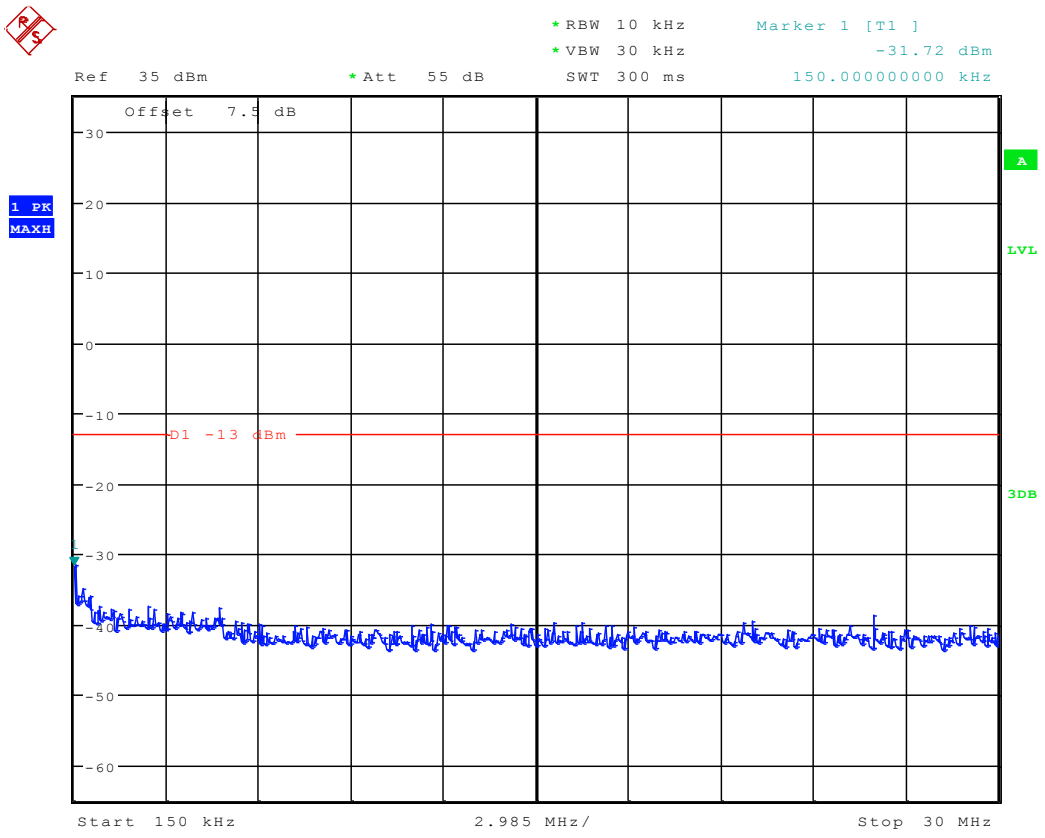


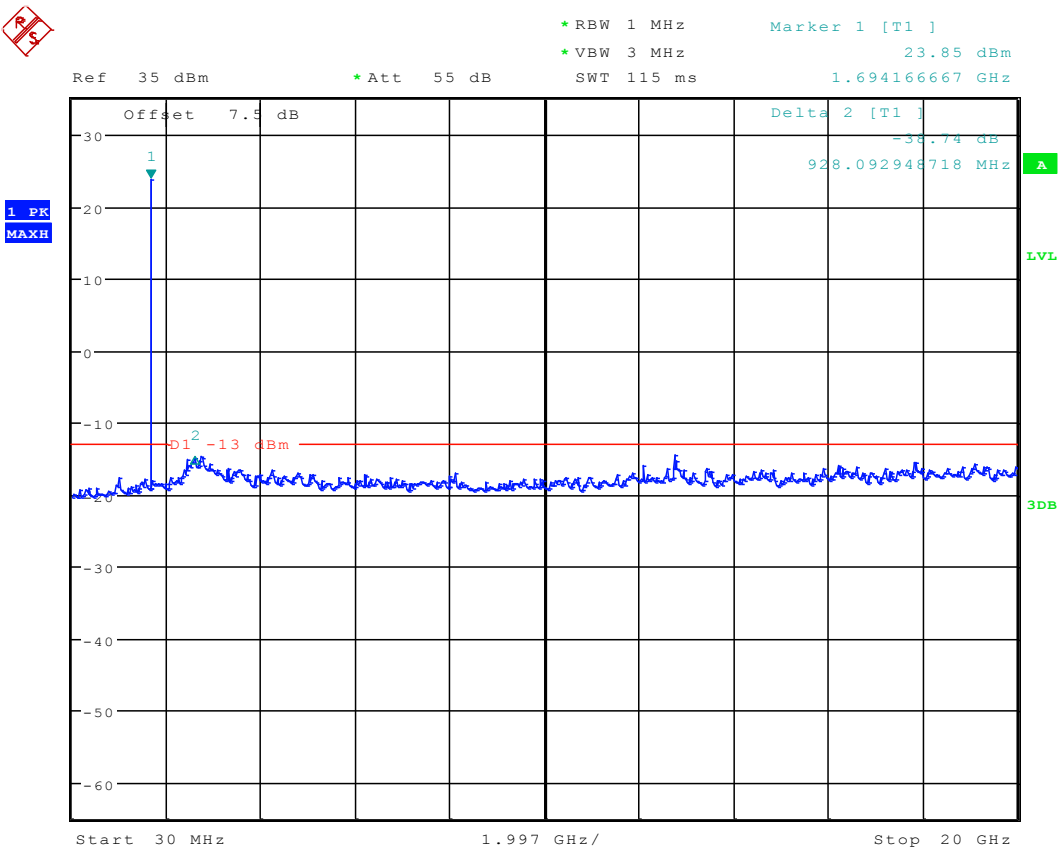

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-30.25 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-40.55 dB
992.099358974 MHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
26.40 dBm
1.726169872 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

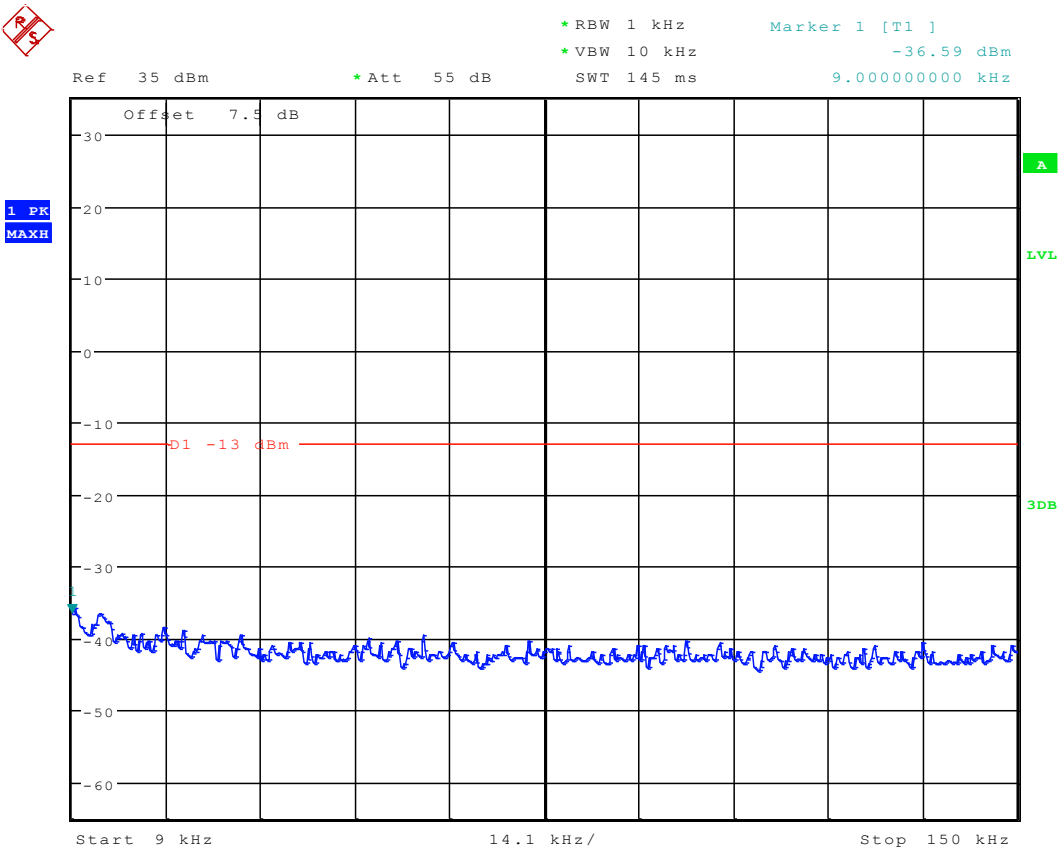
3MHz(BW)
Channel 19965

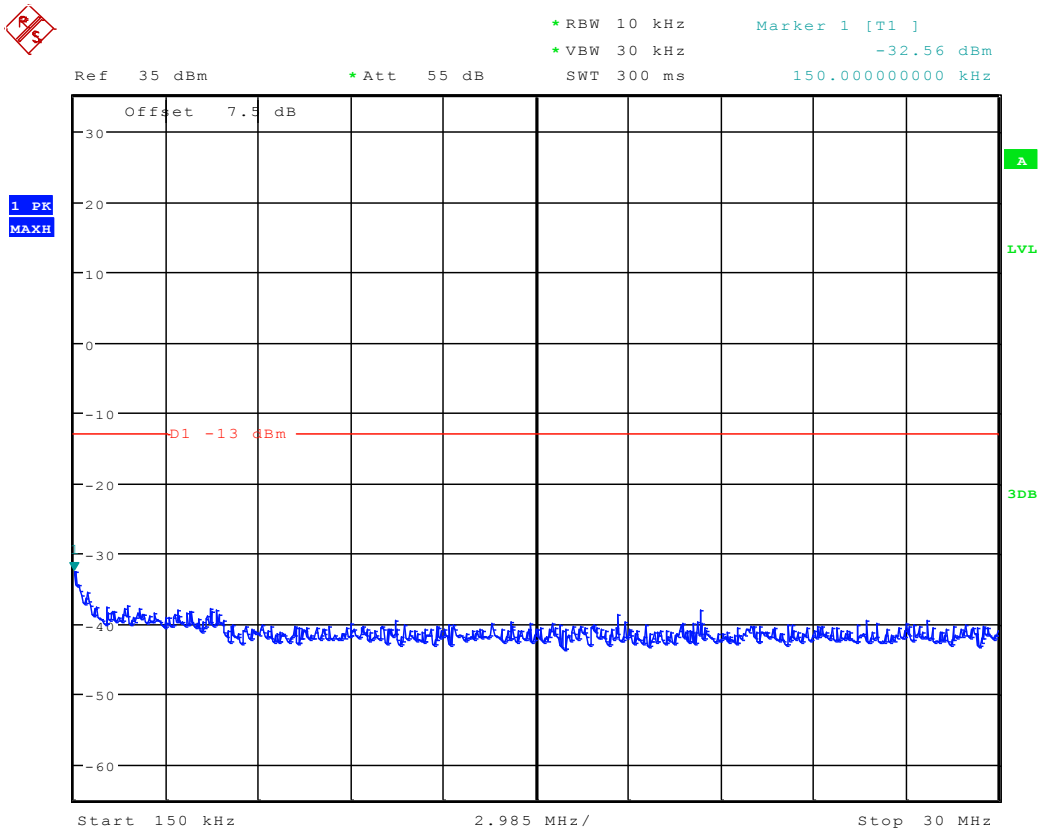


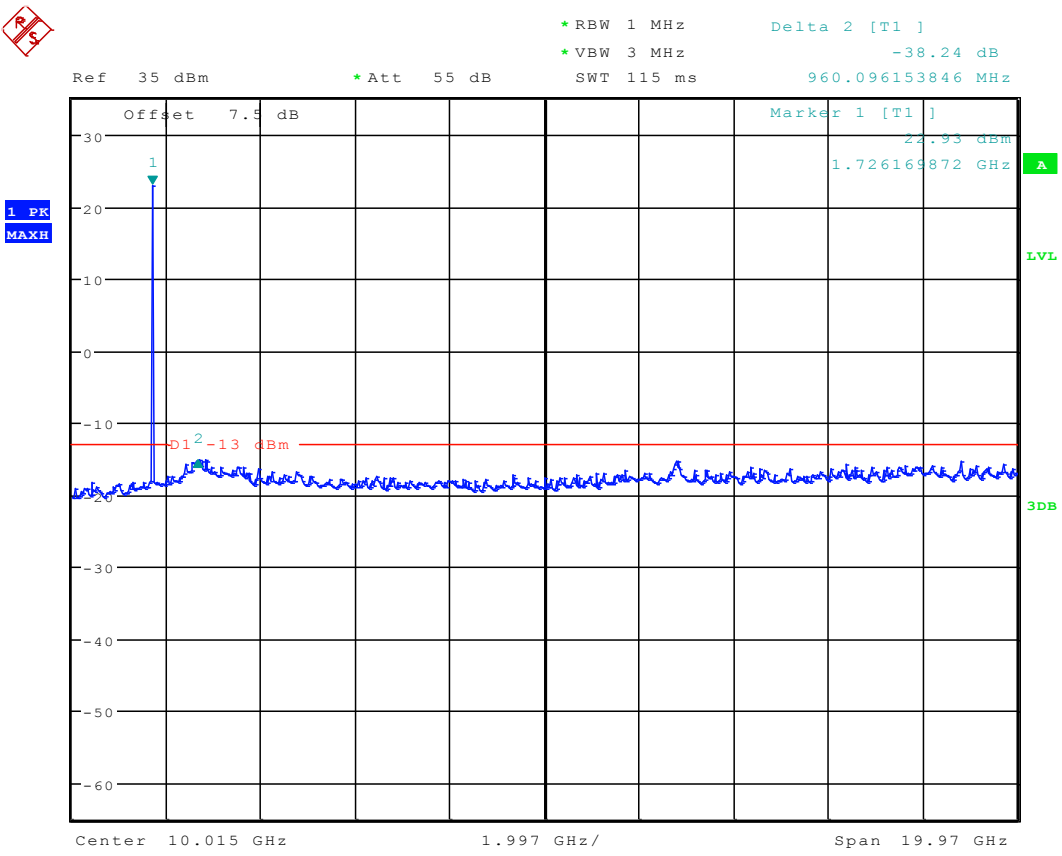

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.72 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
23.85 dBm
1.694166667 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Delta 2 [T1]
-38.74 dB
928.092948718 MHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

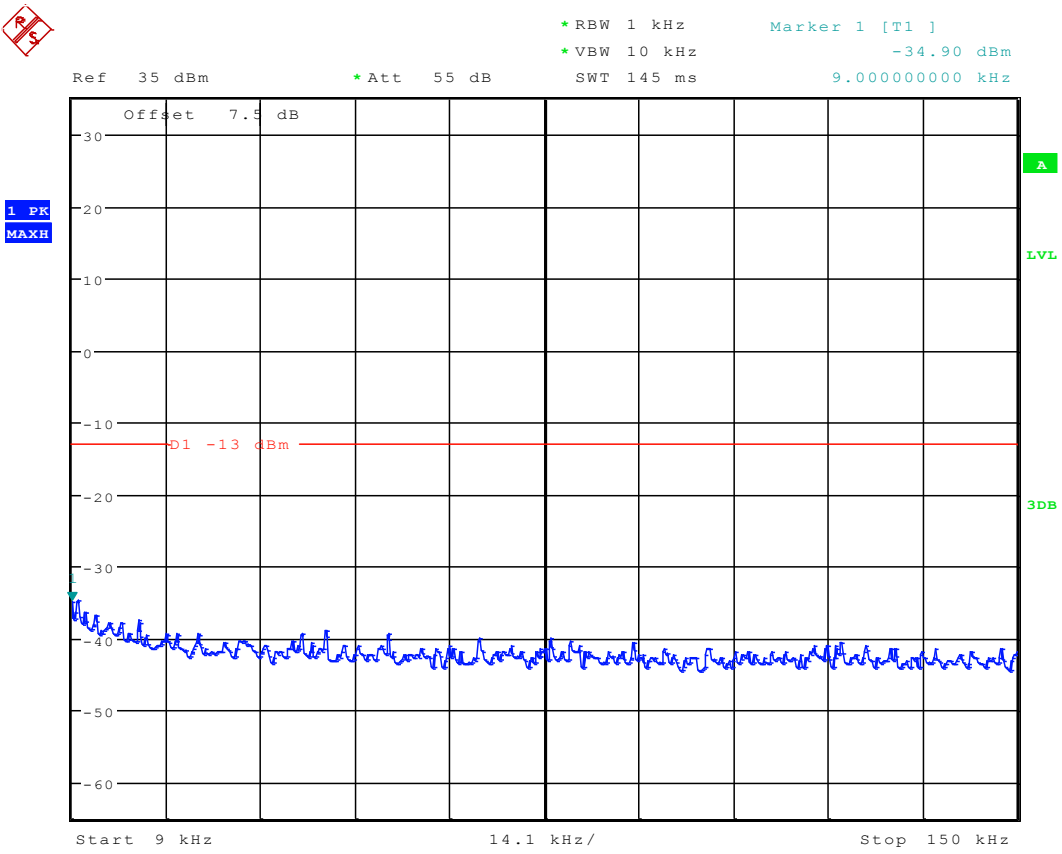
3MHz(BW)
Channel 20175

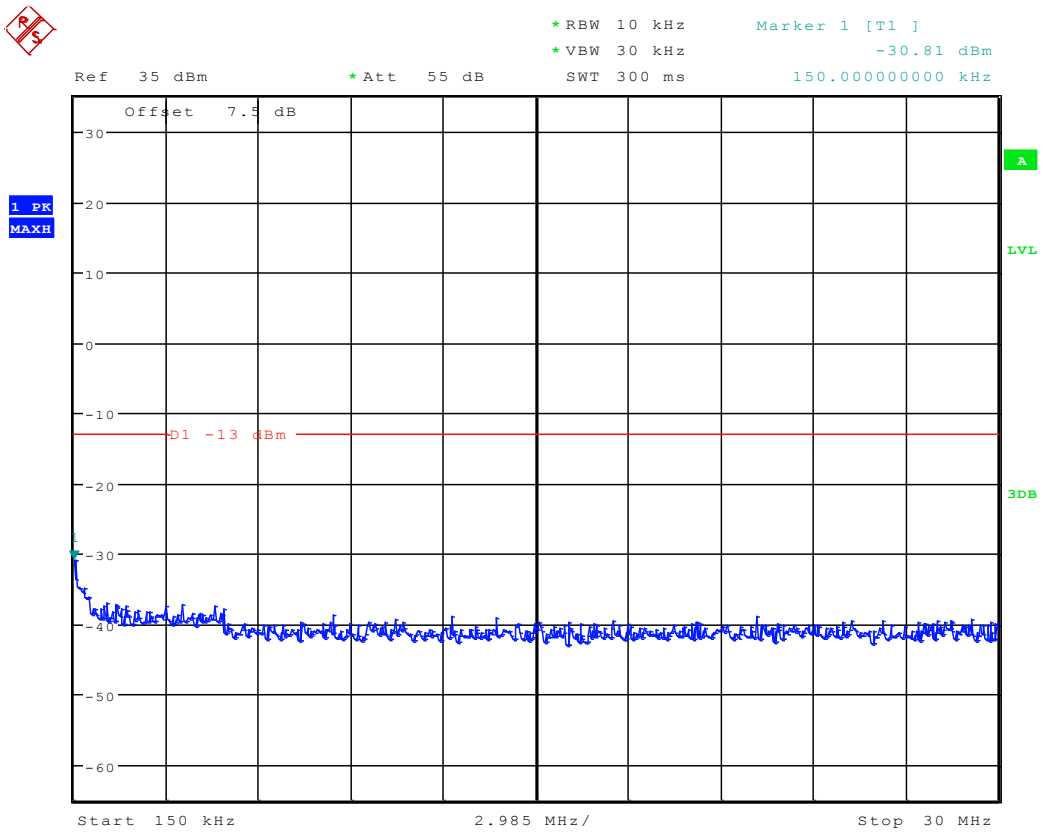


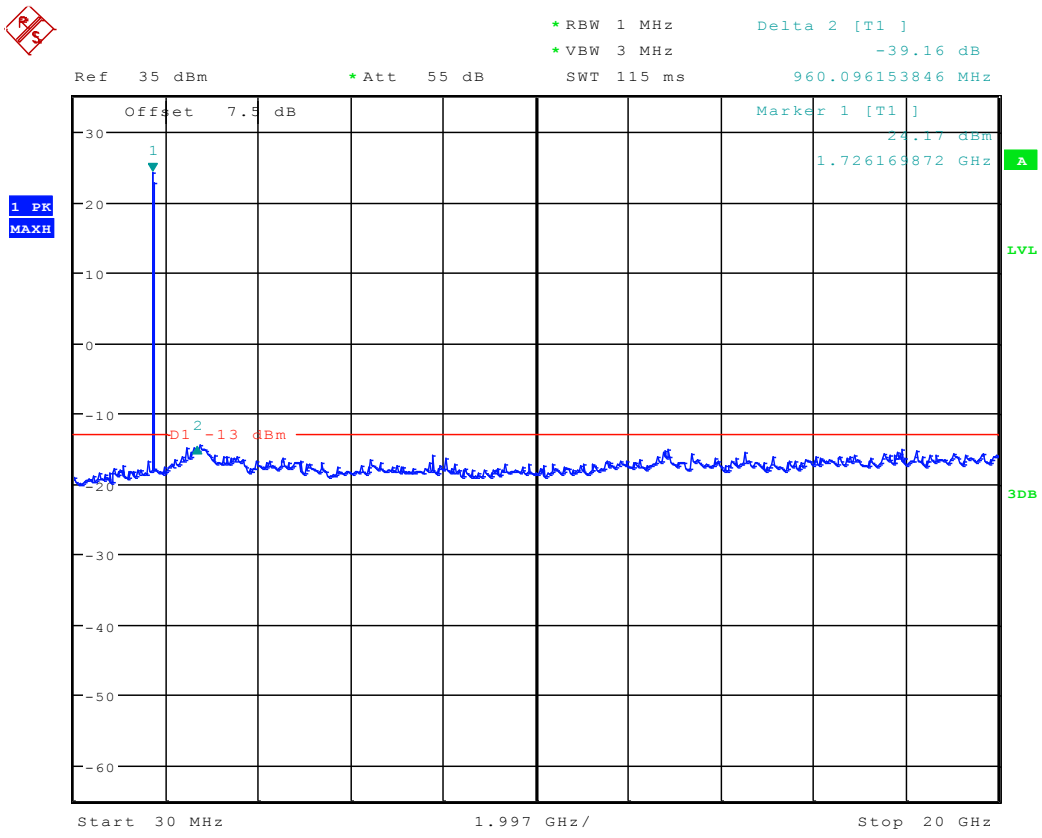

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.56 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


*RBW 1 MHz
*VBW 3 MHz
Ref 35 dBm
*Att 55 dB
SWT 115 ms
Delta 2 [T1]
-38.24 dB
960.096153846 MHz
Offset 7.5 dB
Marker 1 [T1]
22.93 dBm
1.726169872 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Center 10.015 GHz
1.997 GHz/
Span 19.97 GHz

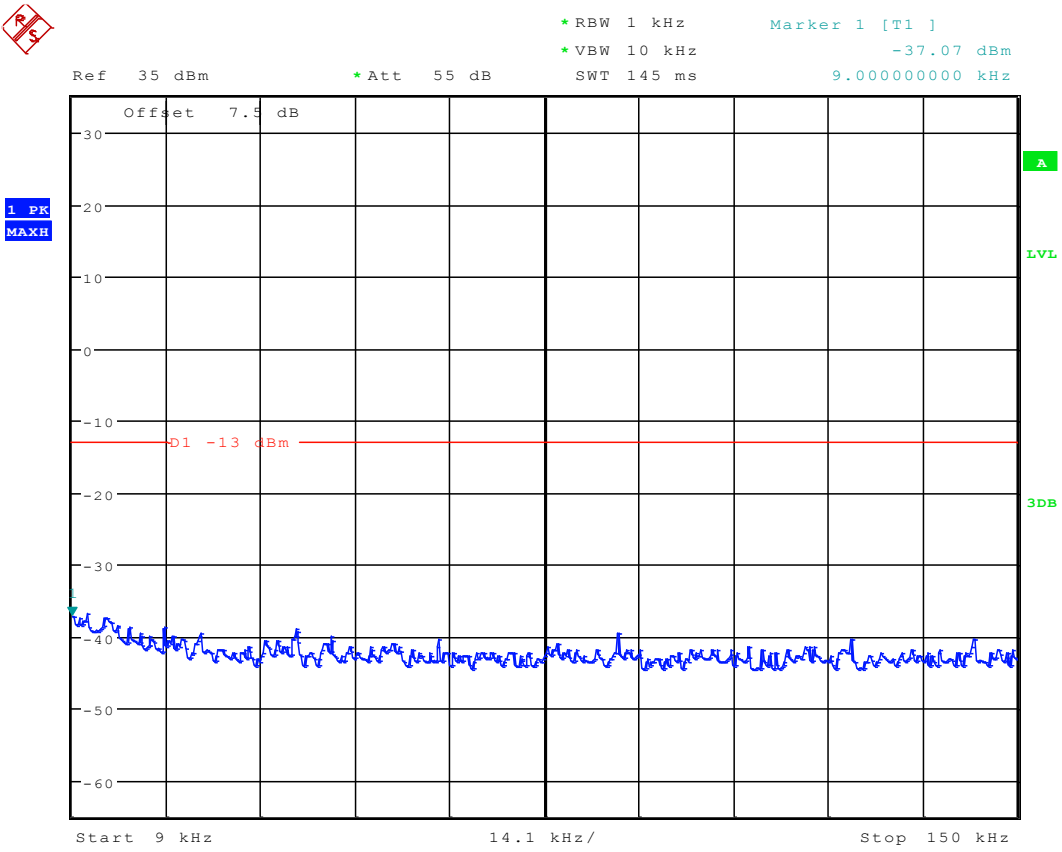
3MHz(BW)
Channel 20385

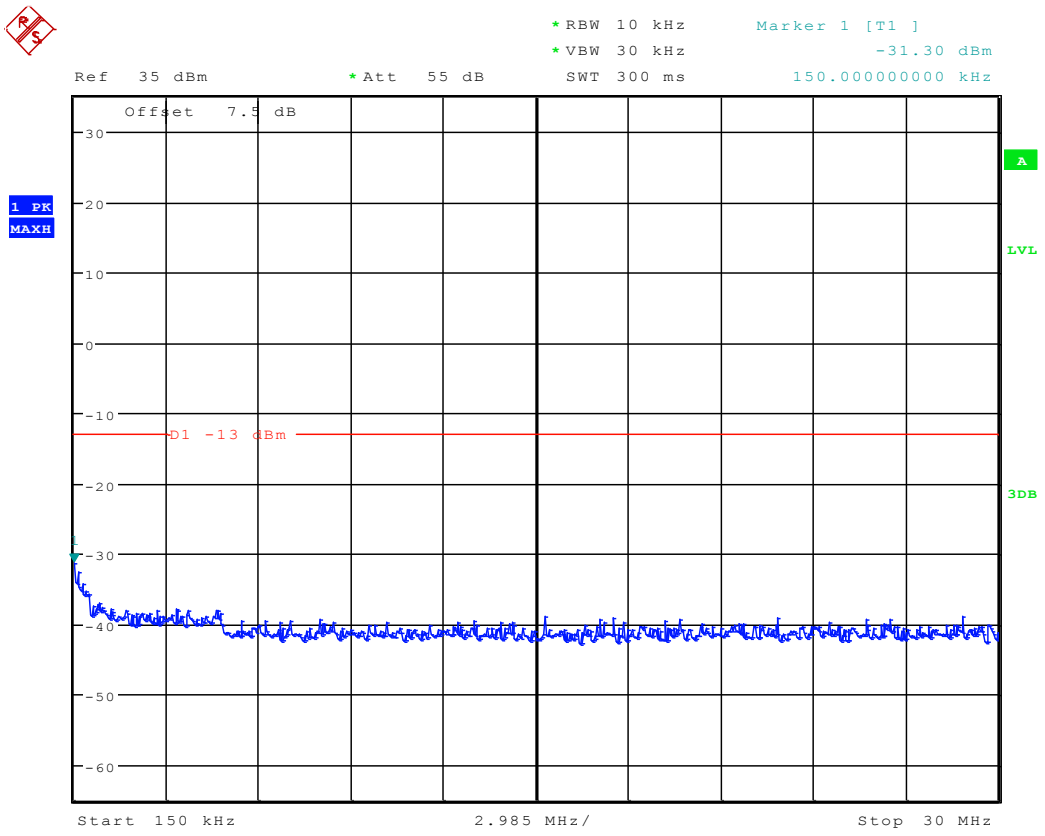


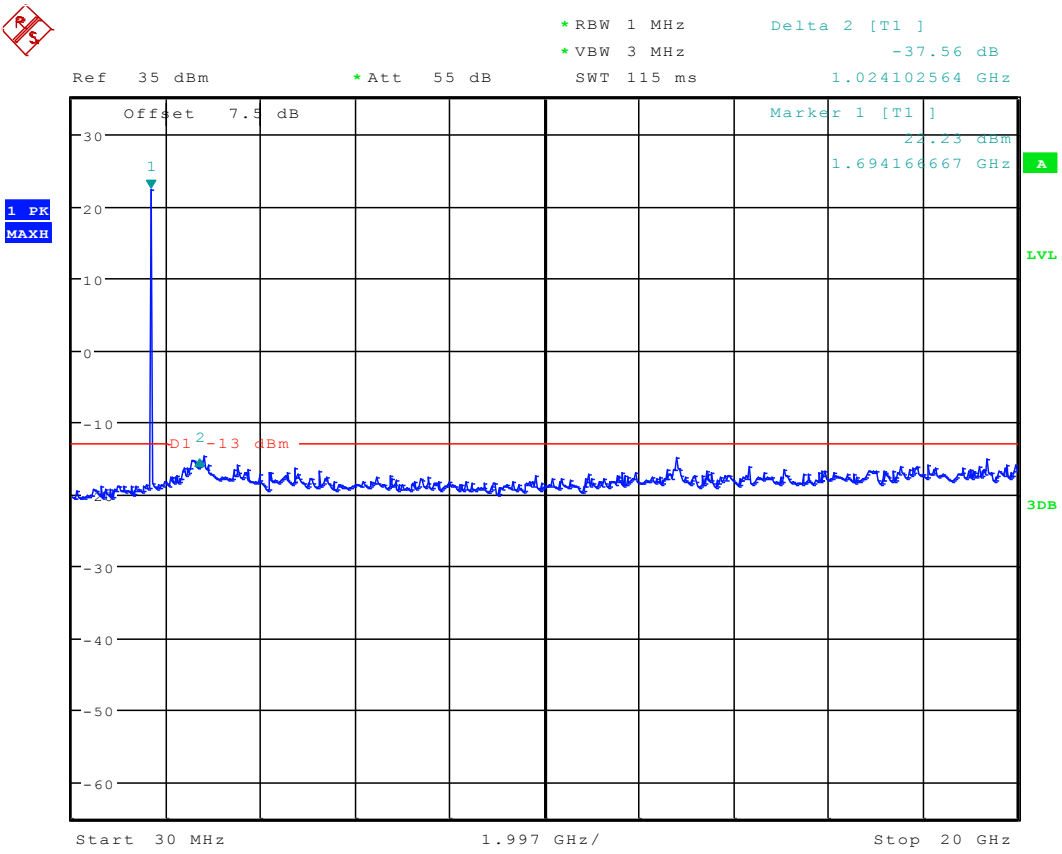

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-30.81 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-39.16 dB
960.096153846 MHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
24.17 dBm
1.726169872 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

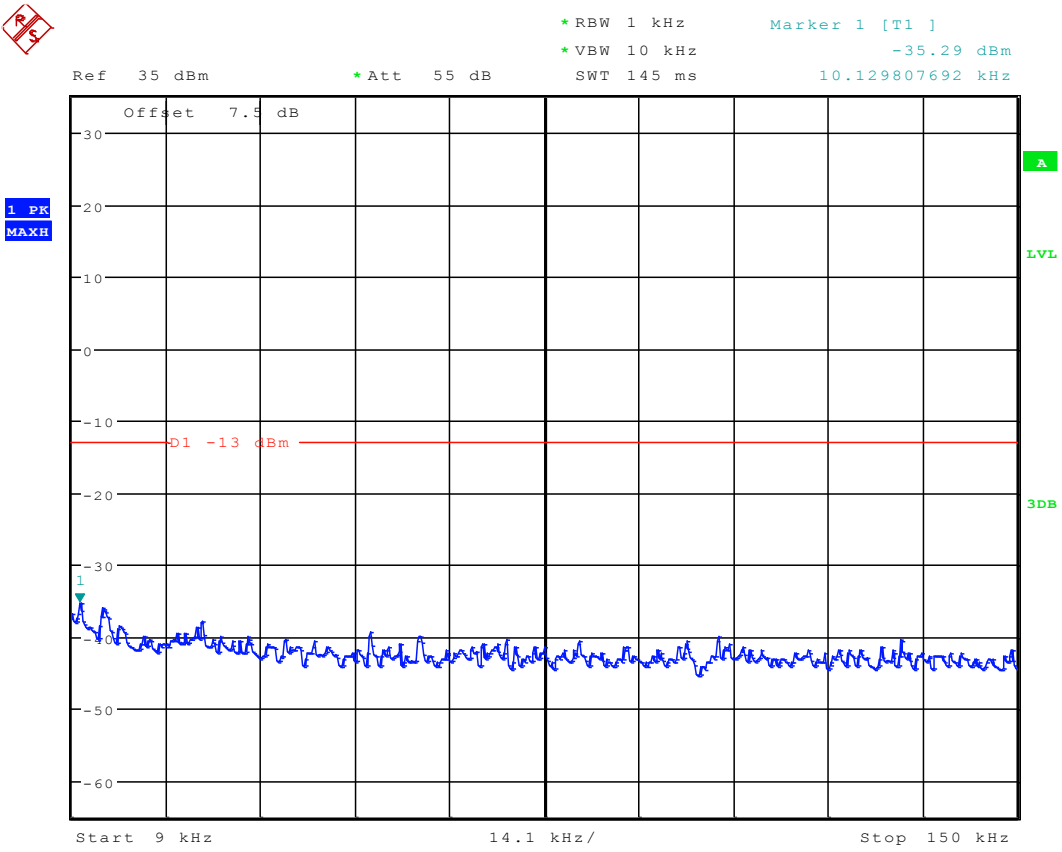
5MHz(BW)
Channel 19975

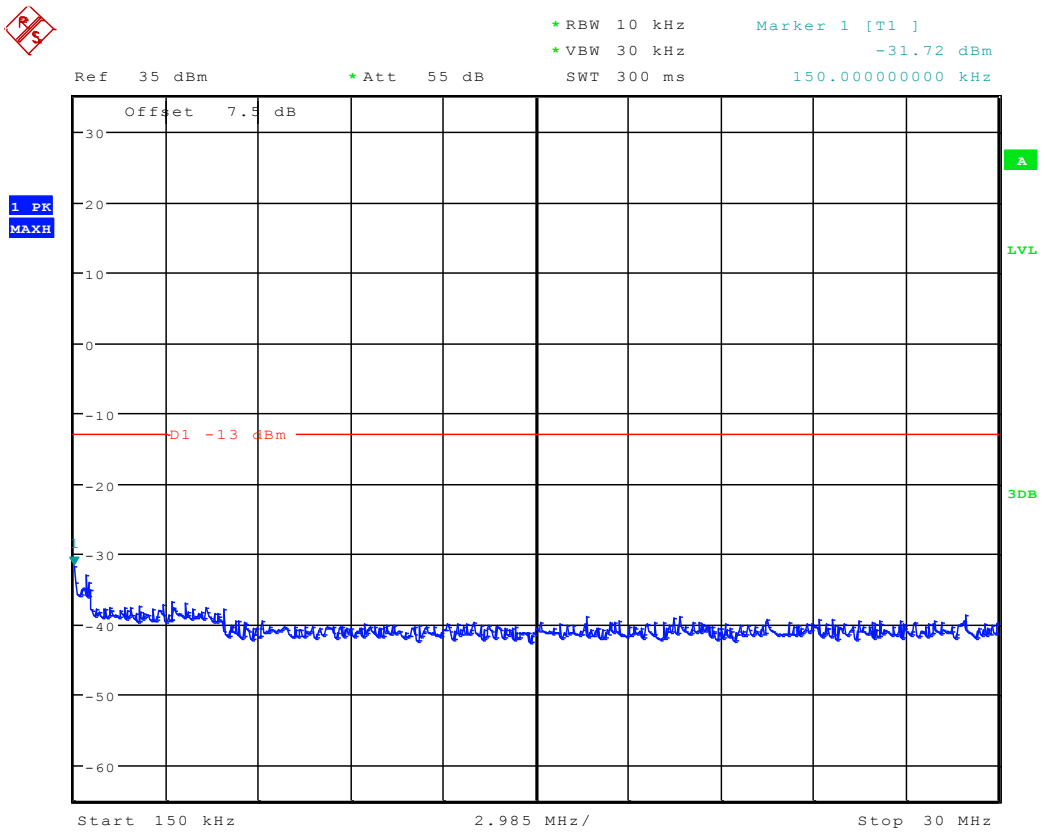


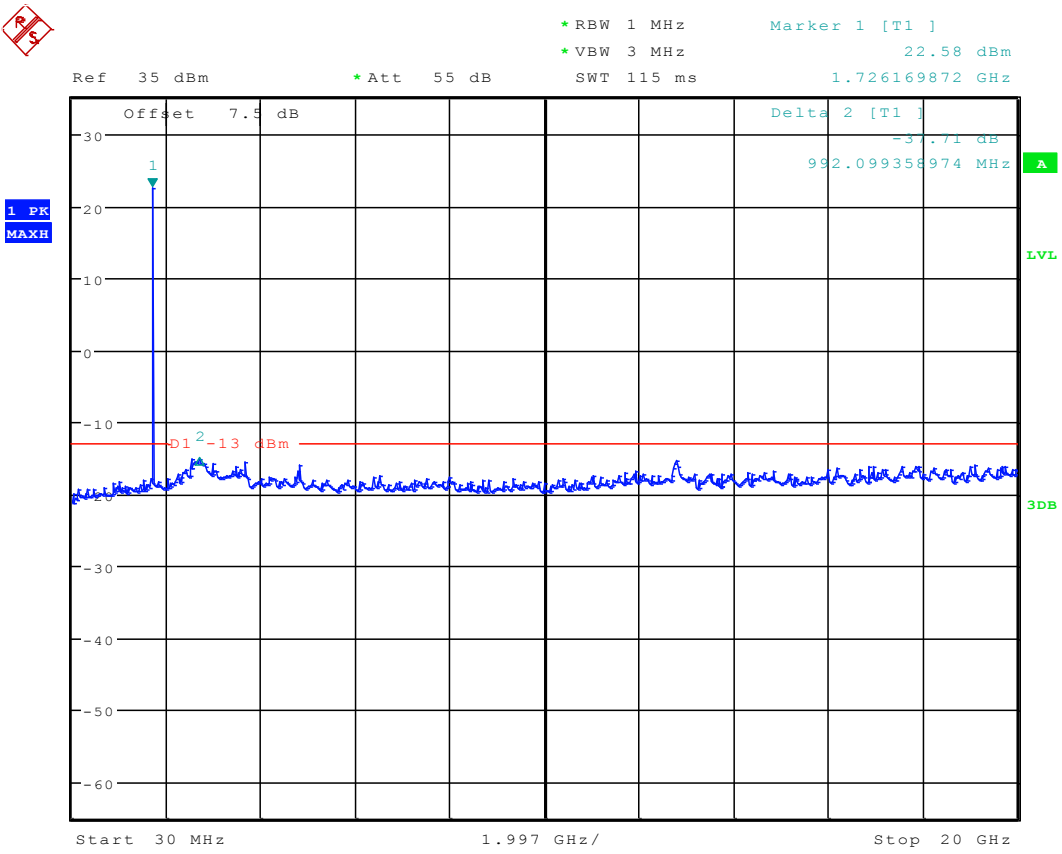

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.30 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-37.56 dB
1.024102564 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
22.23 dBm
1.694166667 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

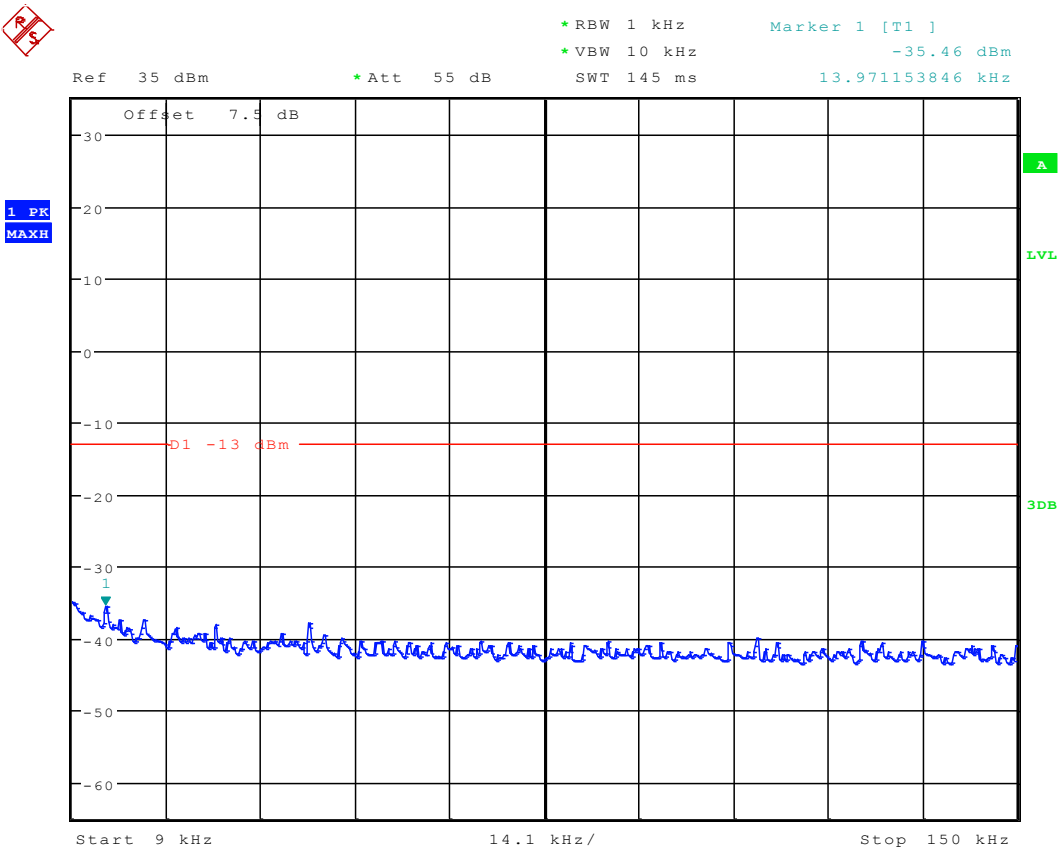
5MHz(BW)
Channel 20175

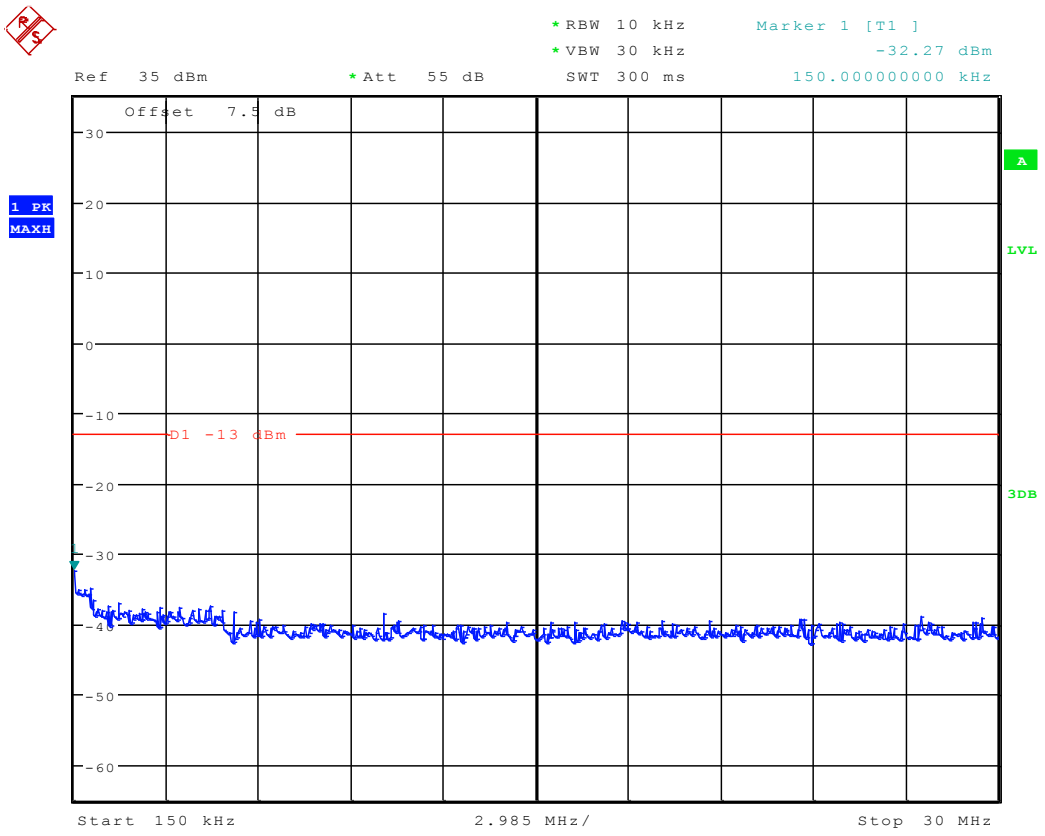


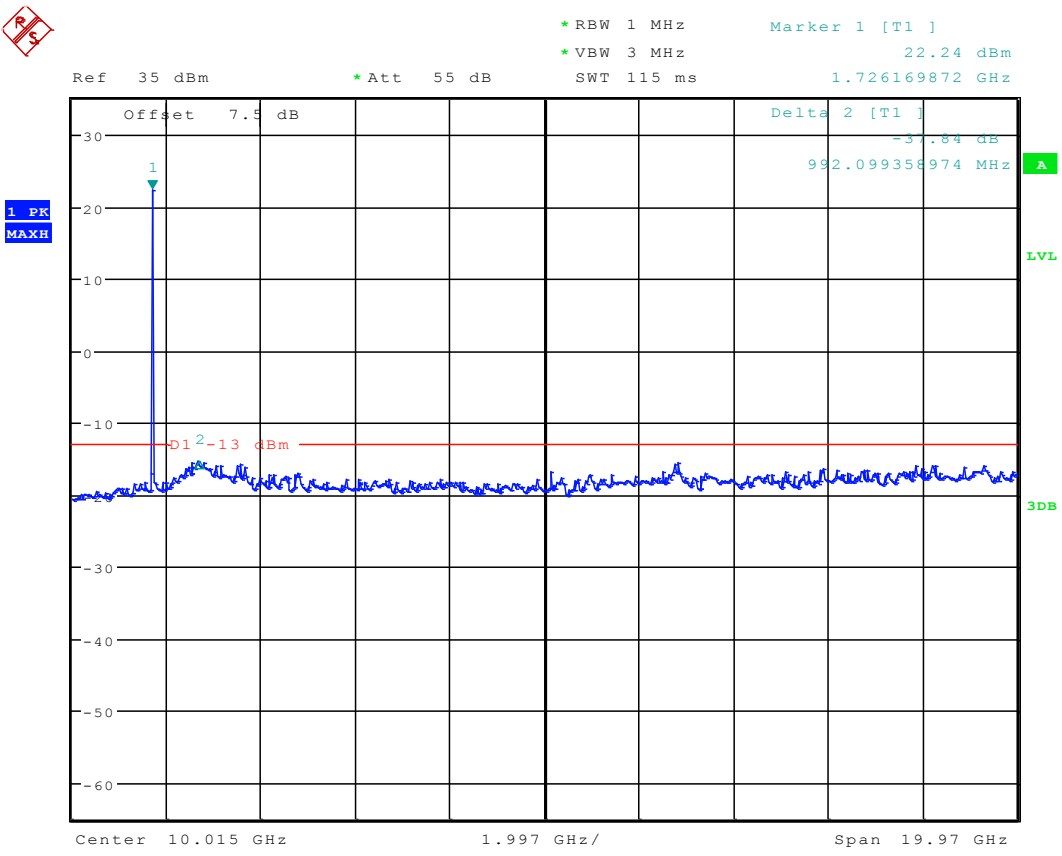

*RBW 10 kHz
*VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-31.72 dBm
150.000000000 kHz
Ref 35 dBm
*Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
22.58 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Delta 2 [T1]
-37.71 dB
992.099358974 MHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

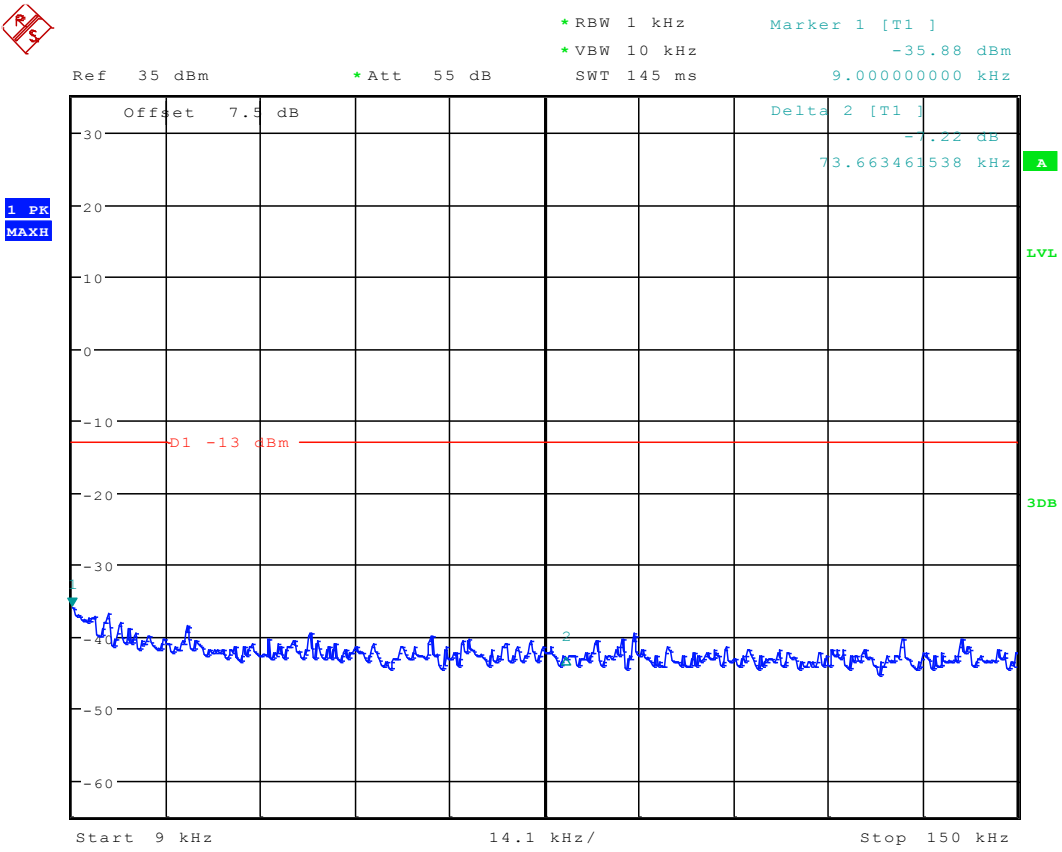
5MHz(BW)
Channel 20375

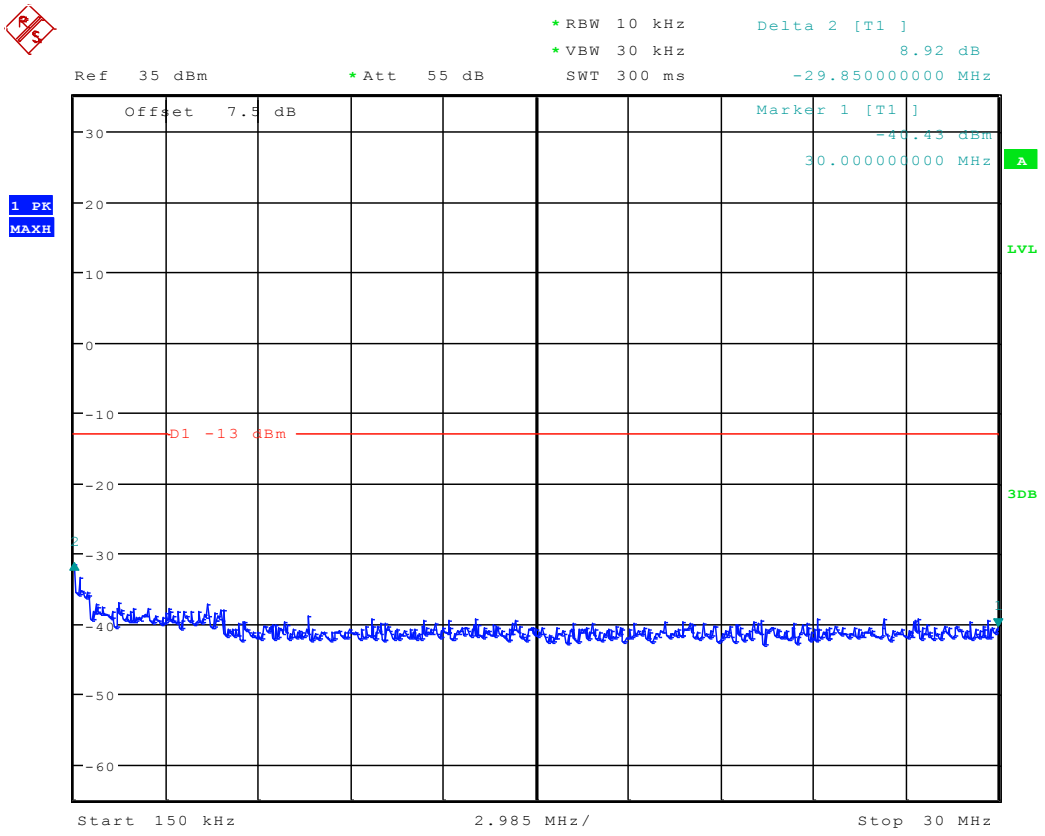


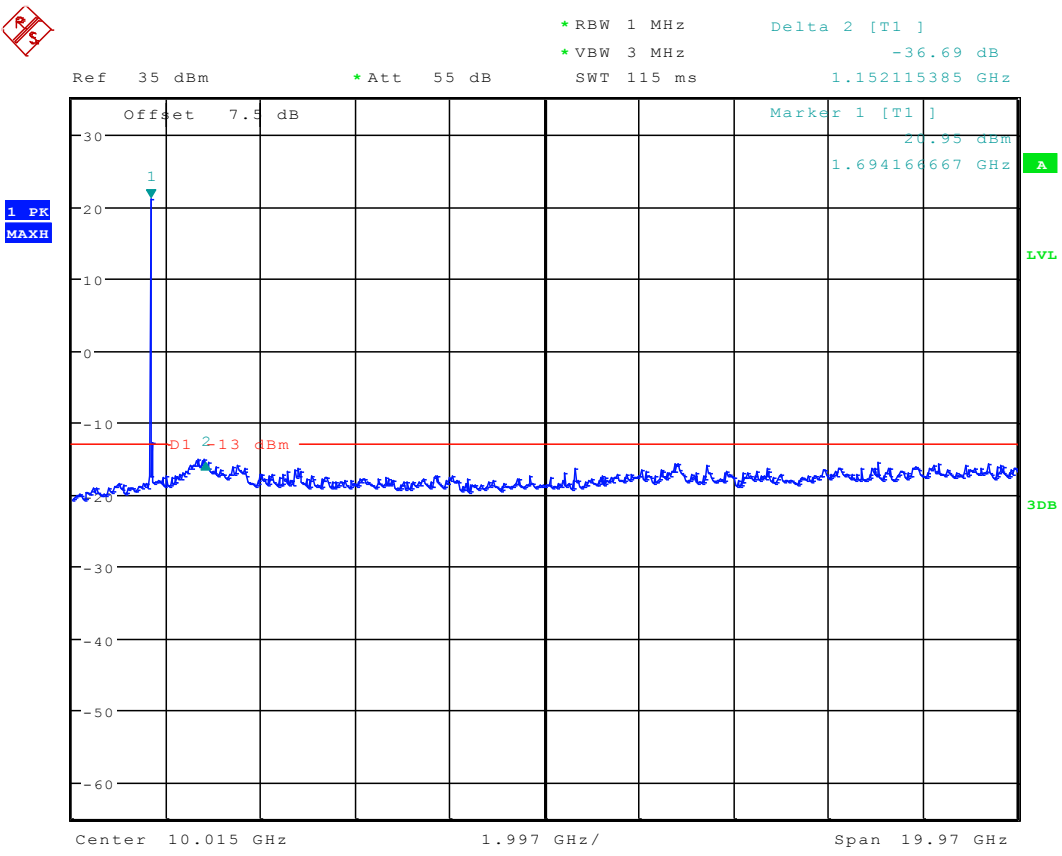

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Marker 1 [T1]
-32.27 dBm
150.000000000 kHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Marker 1 [T1]
22.24 dBm
1.726169872 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Delta 2 [T1]
-31.84 dB
992.099358974 MHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Center 10.015 GHz
1.997 GHz/
Span 19.97 GHz

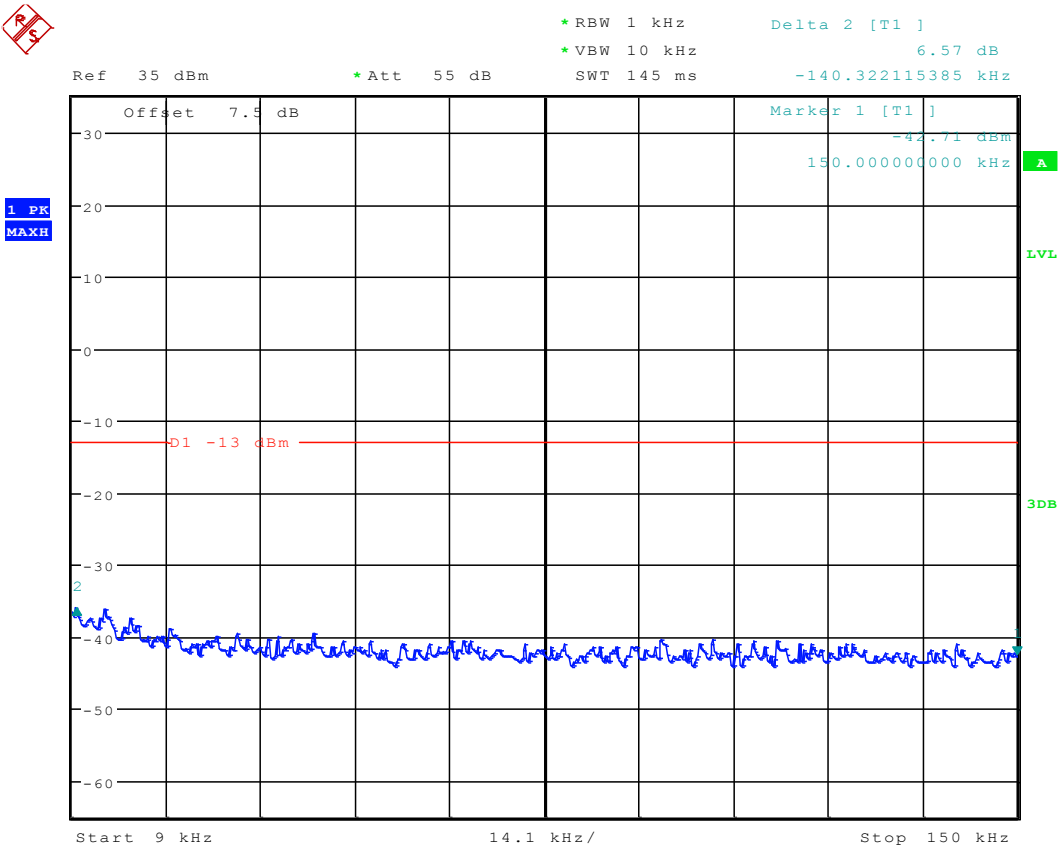
10MHz(BW)
Channel 20000

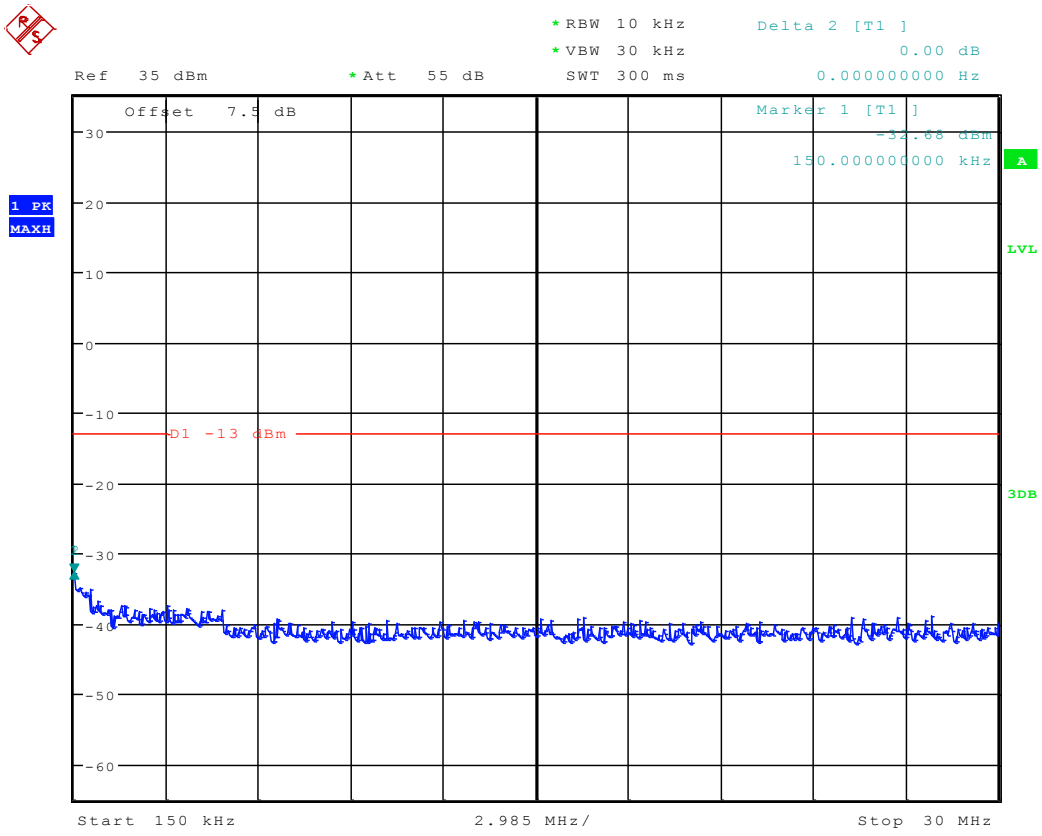


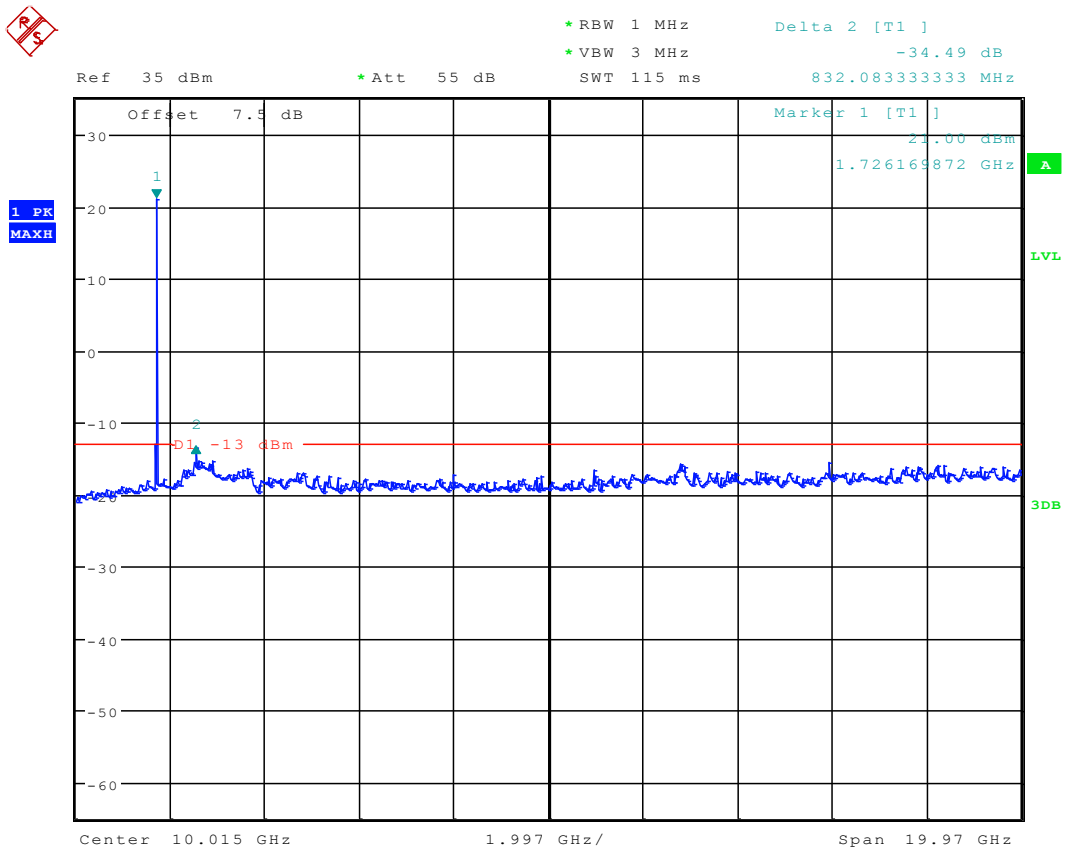

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Delta 2 [T1]
8.92 dB
-29.850000000 MHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
-40.43 dBm
30.000000000 MHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


*RBW 1 MHz
*VBW 3 MHz
Ref 35 dBm
*Att 55 dB
SWT 115 ms
Delta 2 [T1]
-36.69 dB
1.152115385 GHz
Offset 7.5 dB
Marker 1 [T1]
20.95 dBm
1.694166667 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Center 10.015 GHz
1.997 GHz/
Span 19.97 GHz

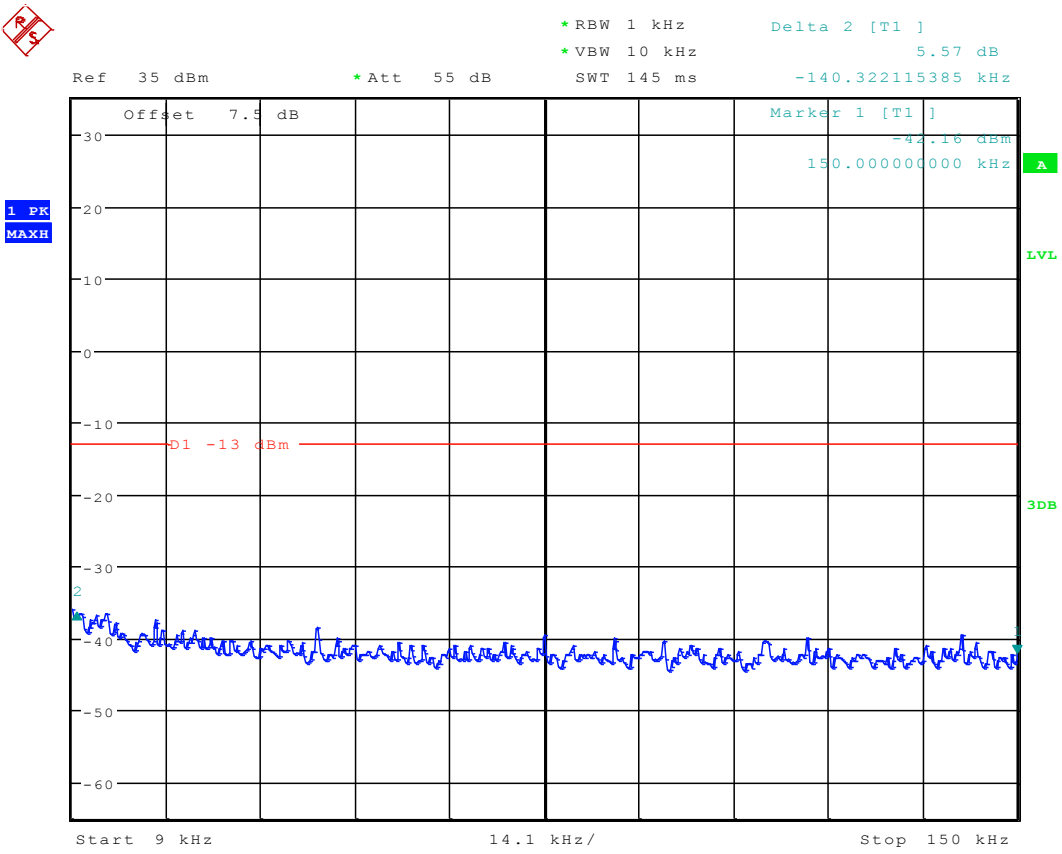
10MHz(BW)
Channel 20175

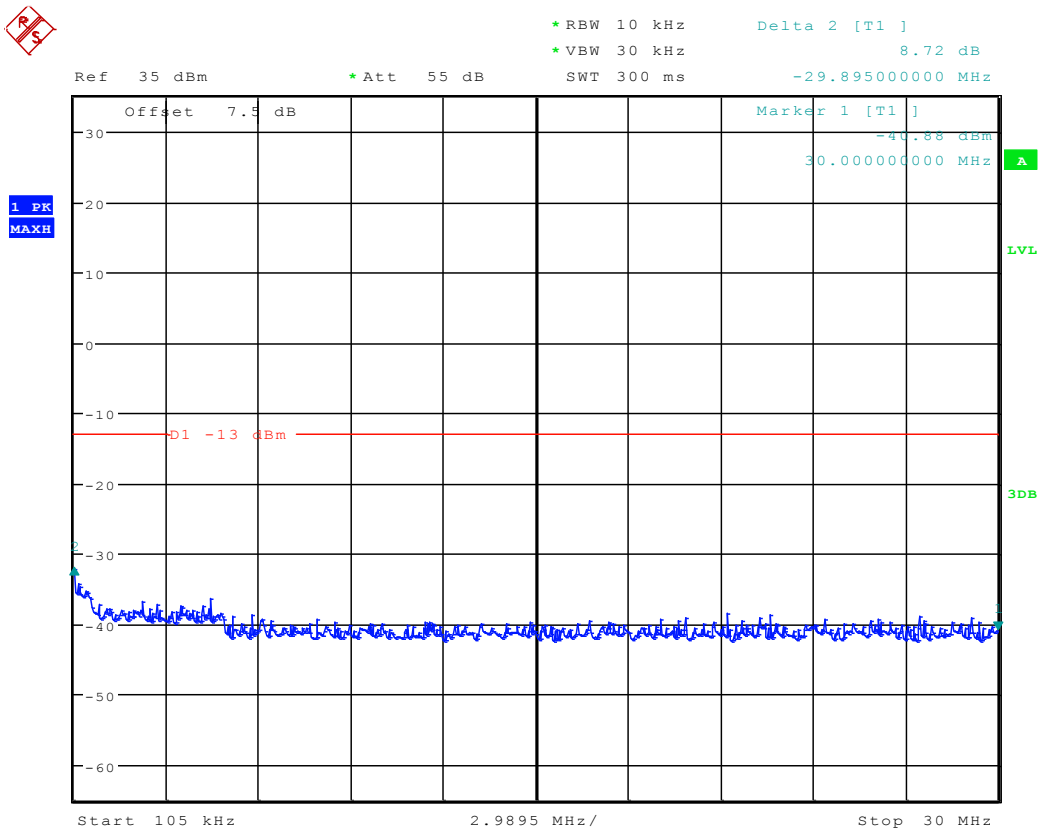


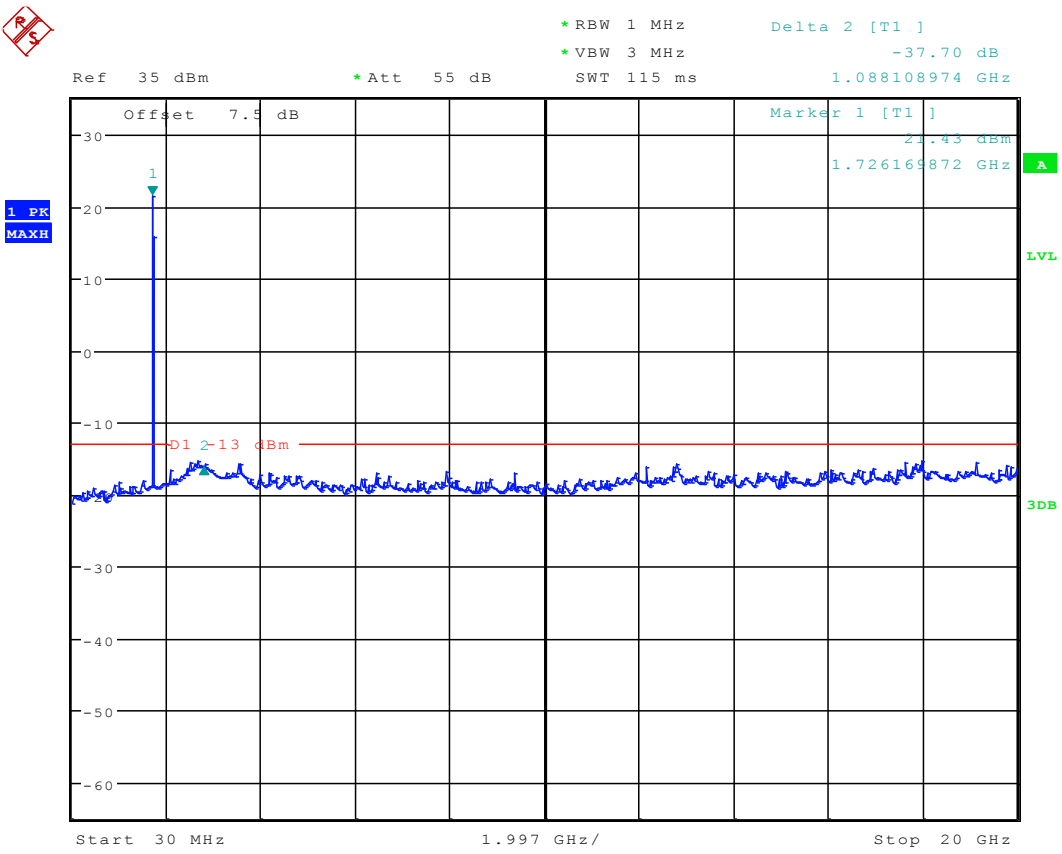

RBW 10 kHz
VBW 30 kHz
SWT 300 ms
Delta 2 [T1]
0.00 dB
0.000000000 Hz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
-32.68 dBm
150.000000000 kHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 150 kHz
2.985 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-34.49 dB
832.083333333 MHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
21.00 dBm
1.726169872 GHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
Center 10.015 GHz
1.997 GHz/
Span 19.97 GHz

10MHz(BW)
Channel 20350




*RBW 10 kHz
*VBW 30 kHz
Ref 35 dBm
*Att 55 dB
SWT 300 ms
Delta 2 [T1]
8.72 dB
-29.895000000 MHz
Offset 7.5 dB
Marker 1 [T1]
-40.88 dBm
30.000000000 MHz
1 PK
MAXH
A
LVL
3DB
D1 -13 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Start 105 kHz
2.9895 MHz/
Stop 30 MHz


RBW 1 MHz
VBW 3 MHz
SWT 115 ms
Delta 2 [T1]
-37.70 dB
1.088108974 GHz
Ref 35 dBm
Att 55 dB
Offset 7.5 dB
Marker 1 [T1]
21.43 dBm
1.726169872 GHz
1 PK
MAXH
A
LVL
3DB
D1 2-13 dBm
30
20
10
0
-10
-30
-40
-50
-60
Start 30 MHz
1.997 GHz/
Stop 20 GHz

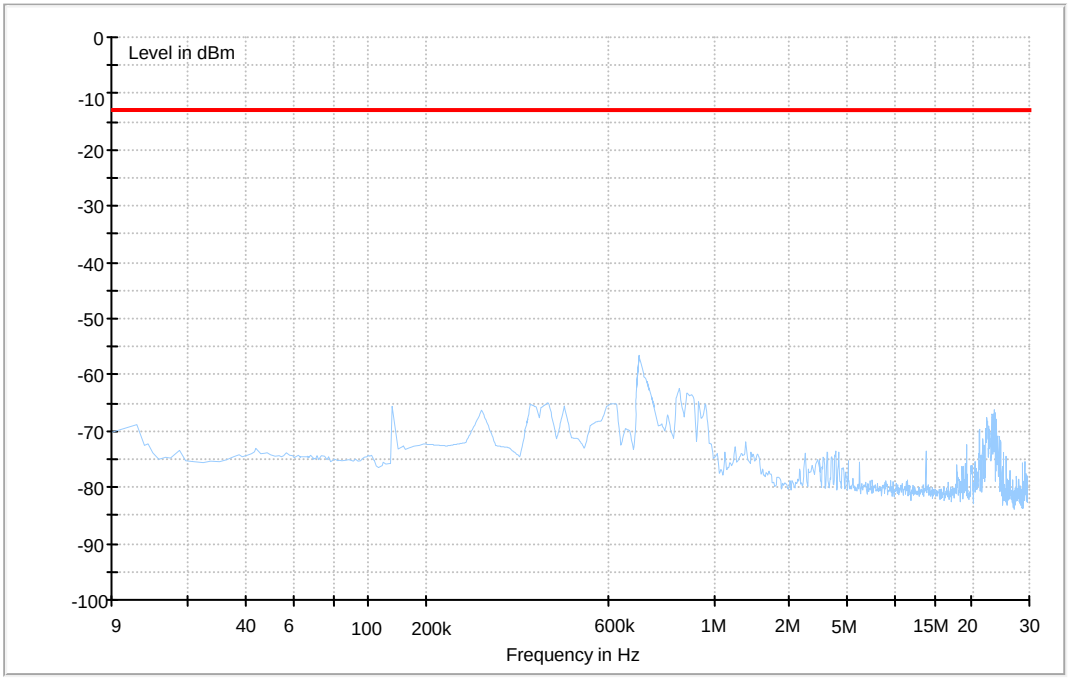
Appendix E

Radiated spurious emission

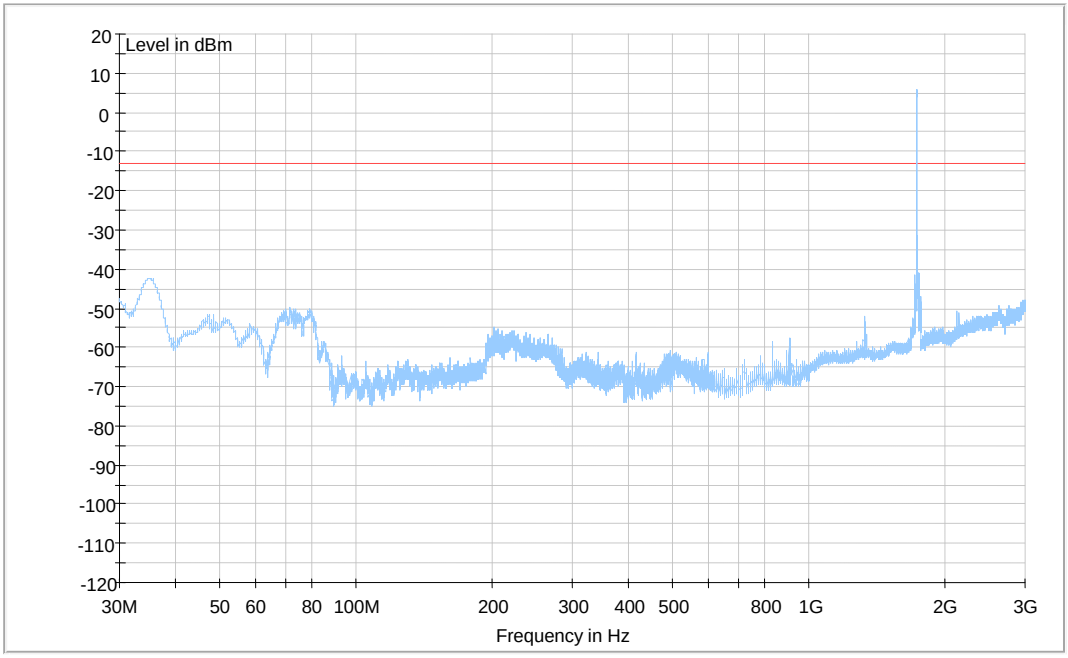
According to FCC Part 2.1053& Part 27.53(h)

CDMA 1700

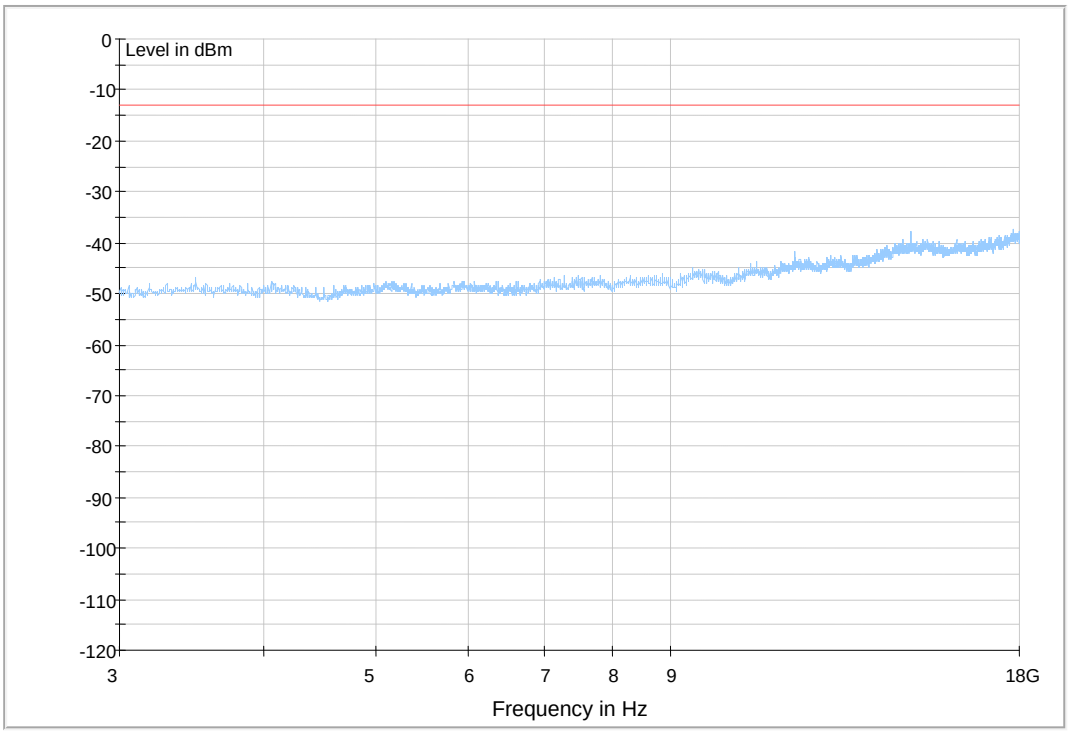
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

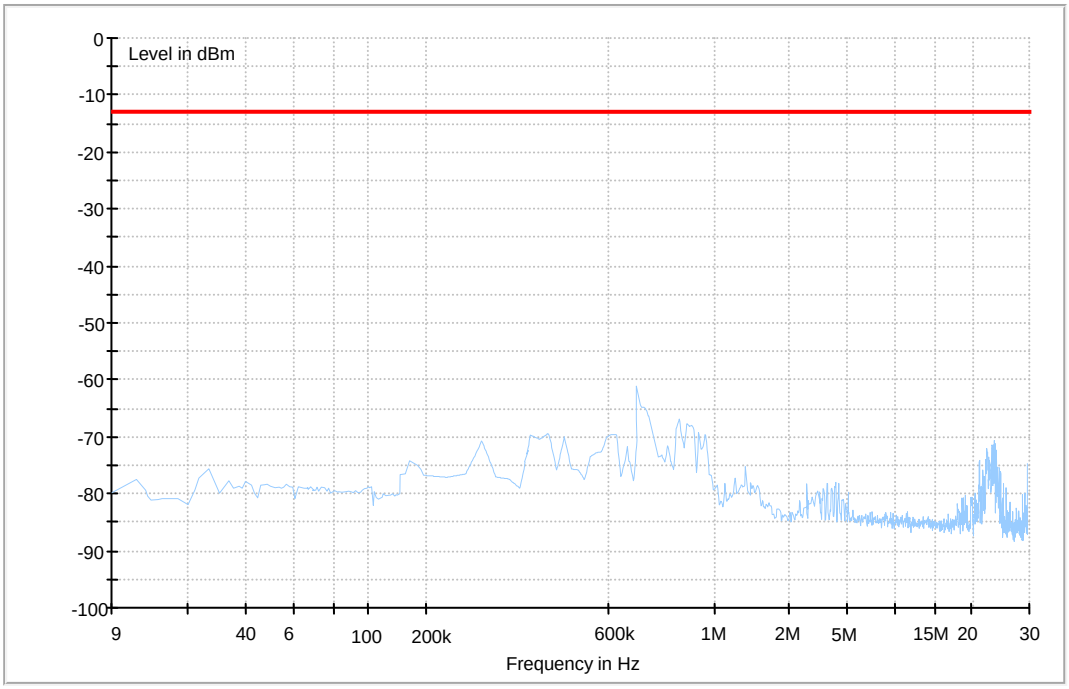


Traffic Mode (3GHz-18GHz)

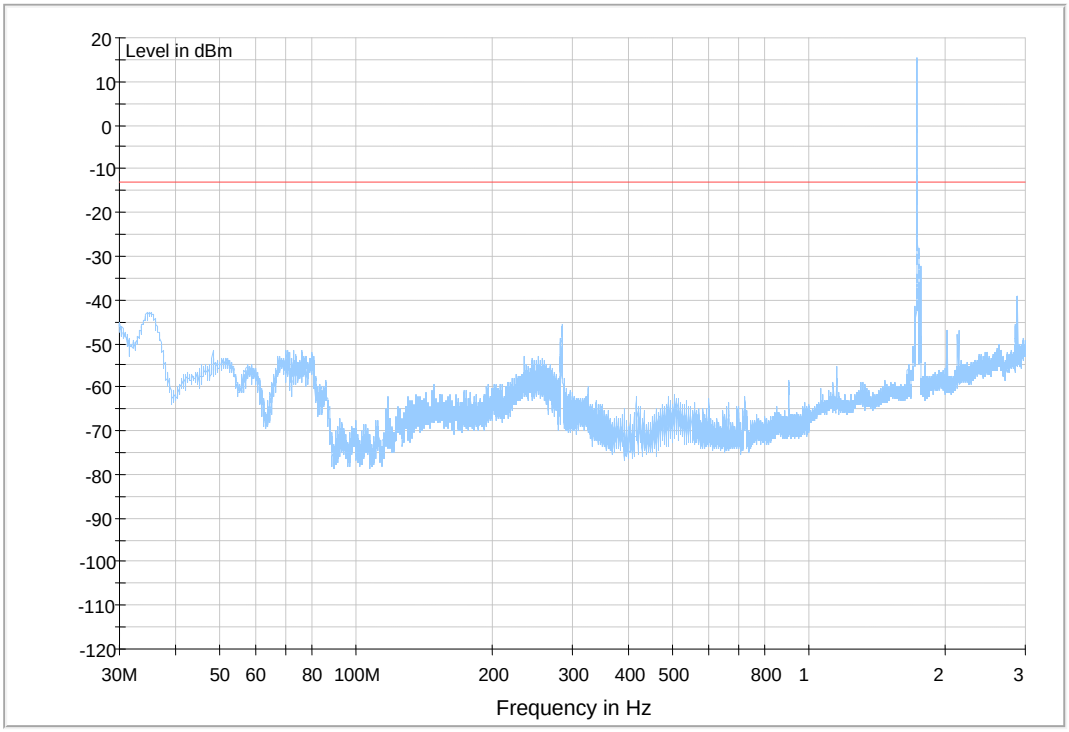


EVDO.0 1700

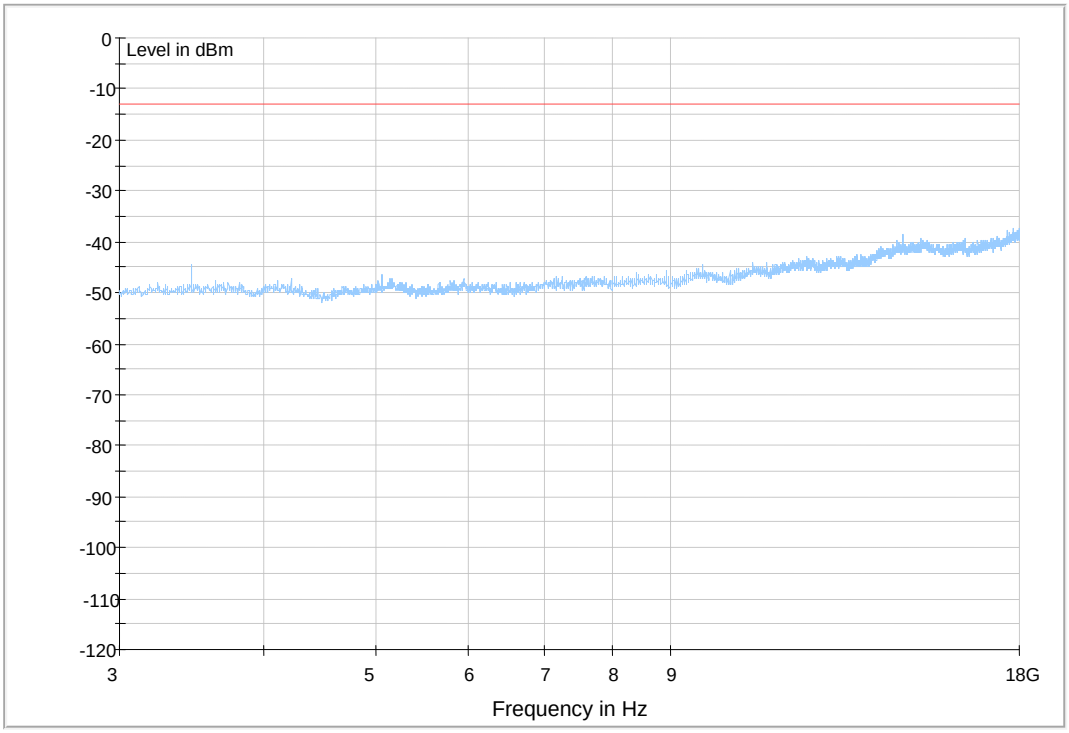
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

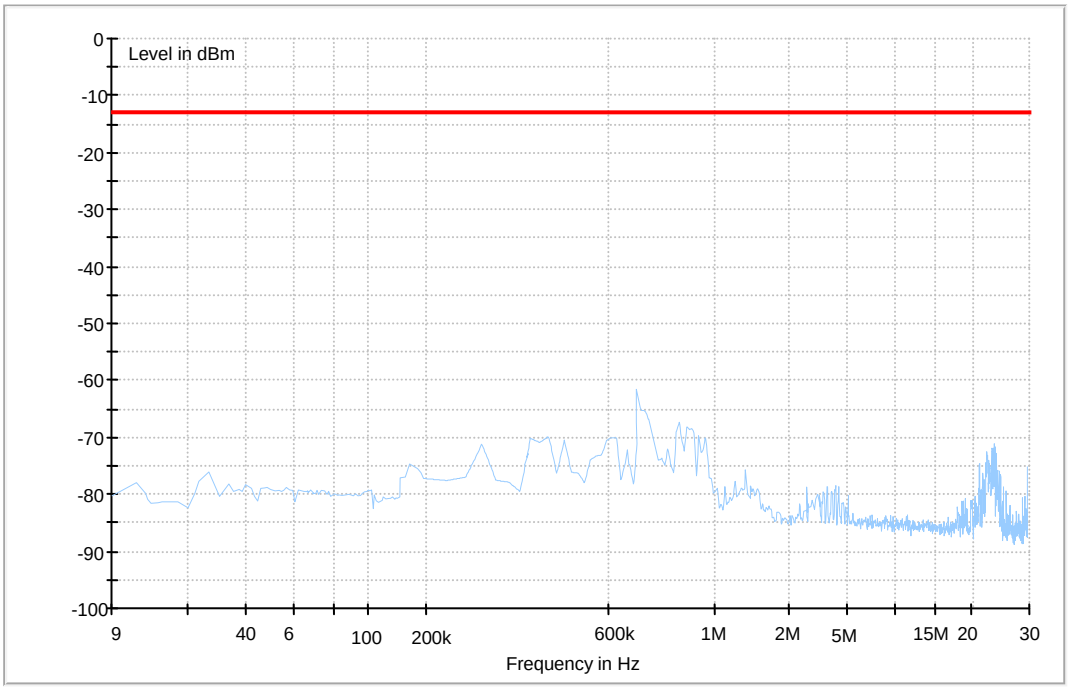


Traffic Mode (3GHz-18GHz)

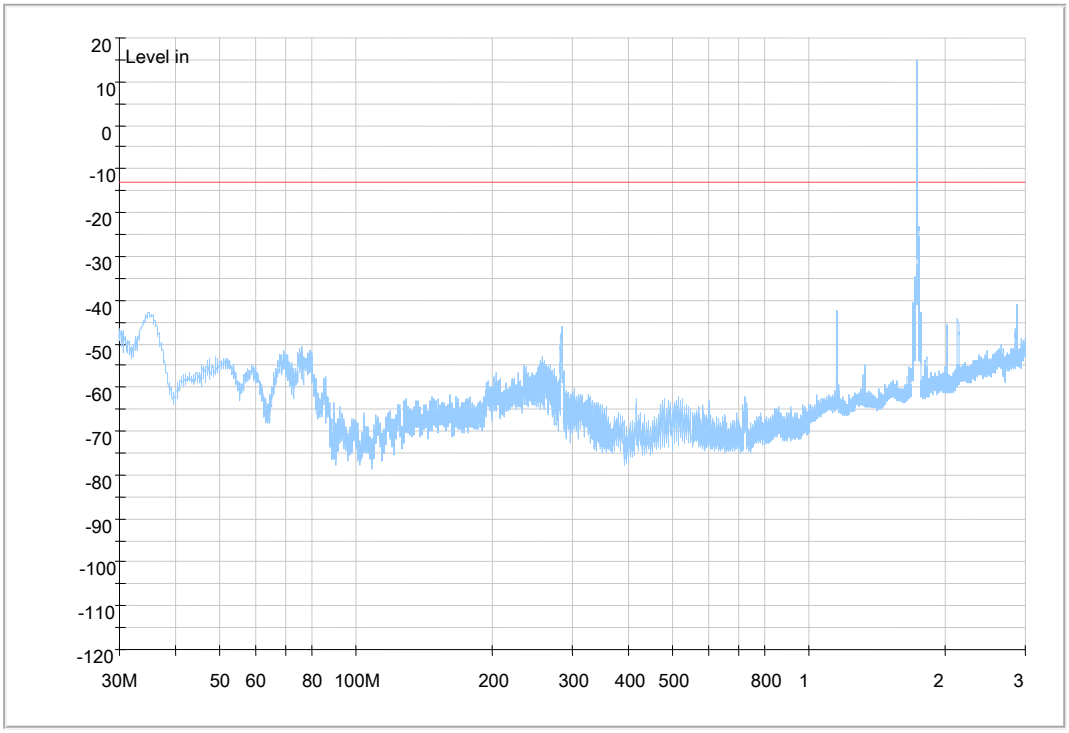


EVDO.A 1700

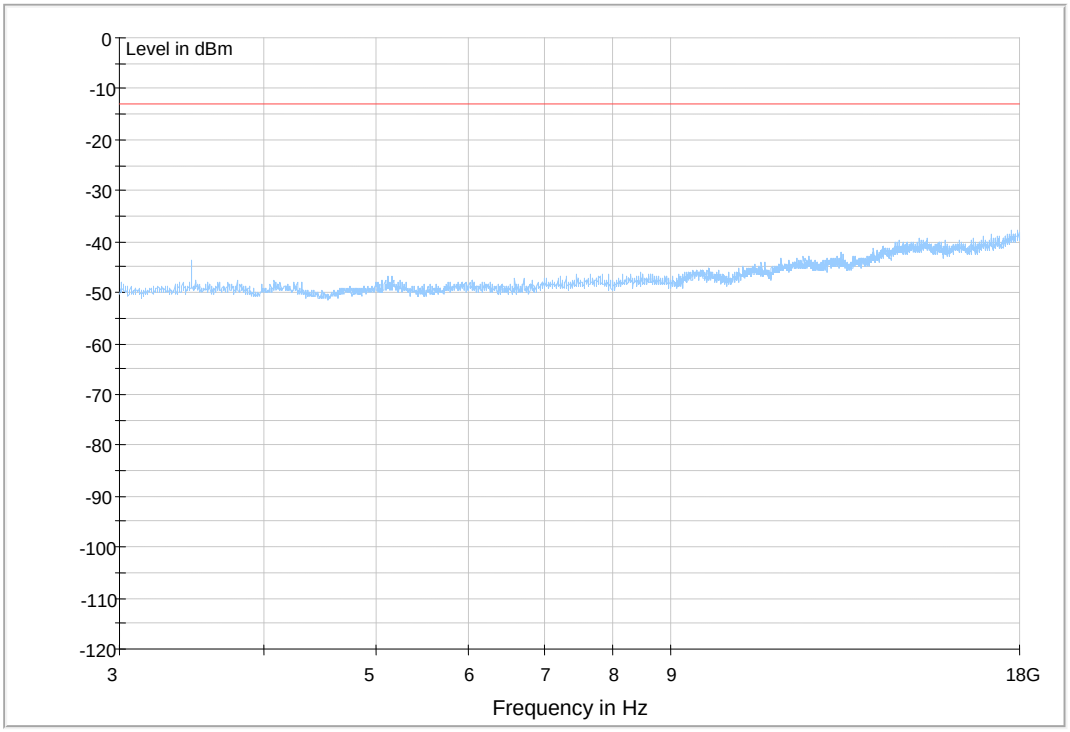
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

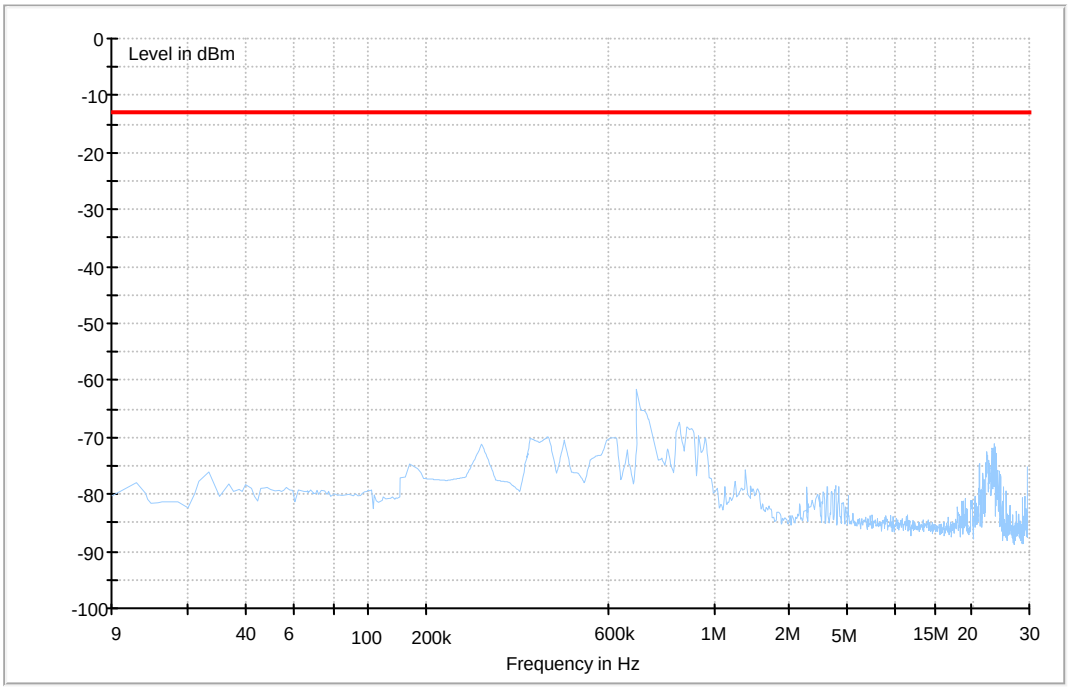


Traffic Mode (3GHz-18GHz)

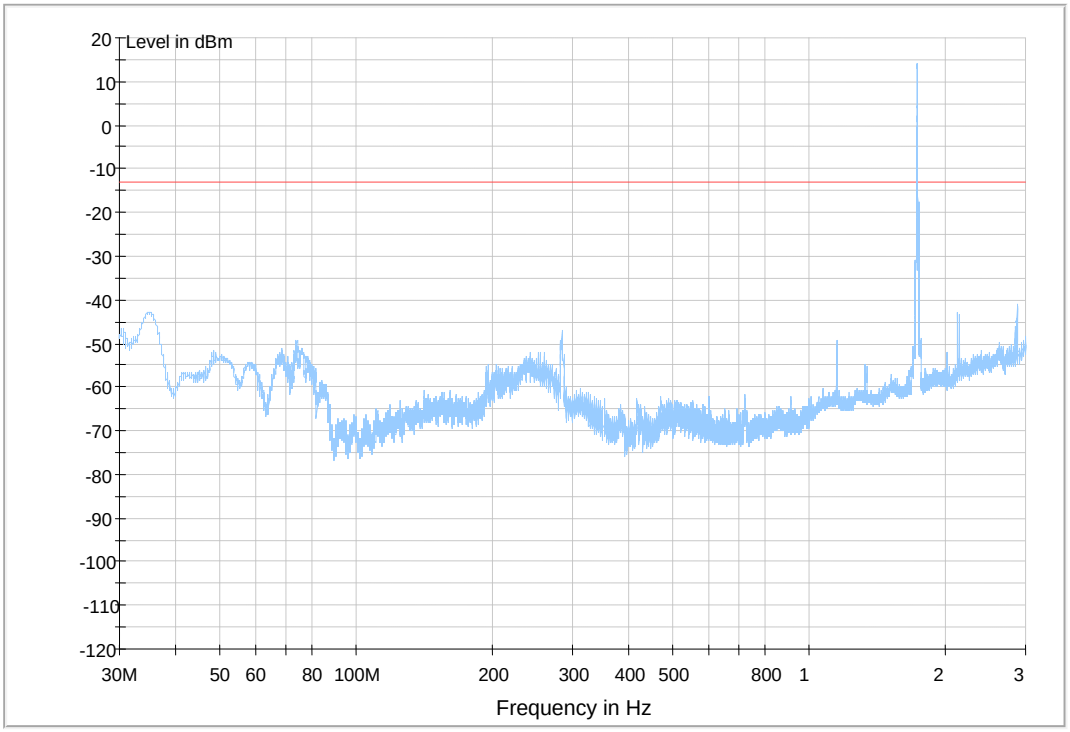


LTE band IV (Channel Bandwidth=1.4MHz)

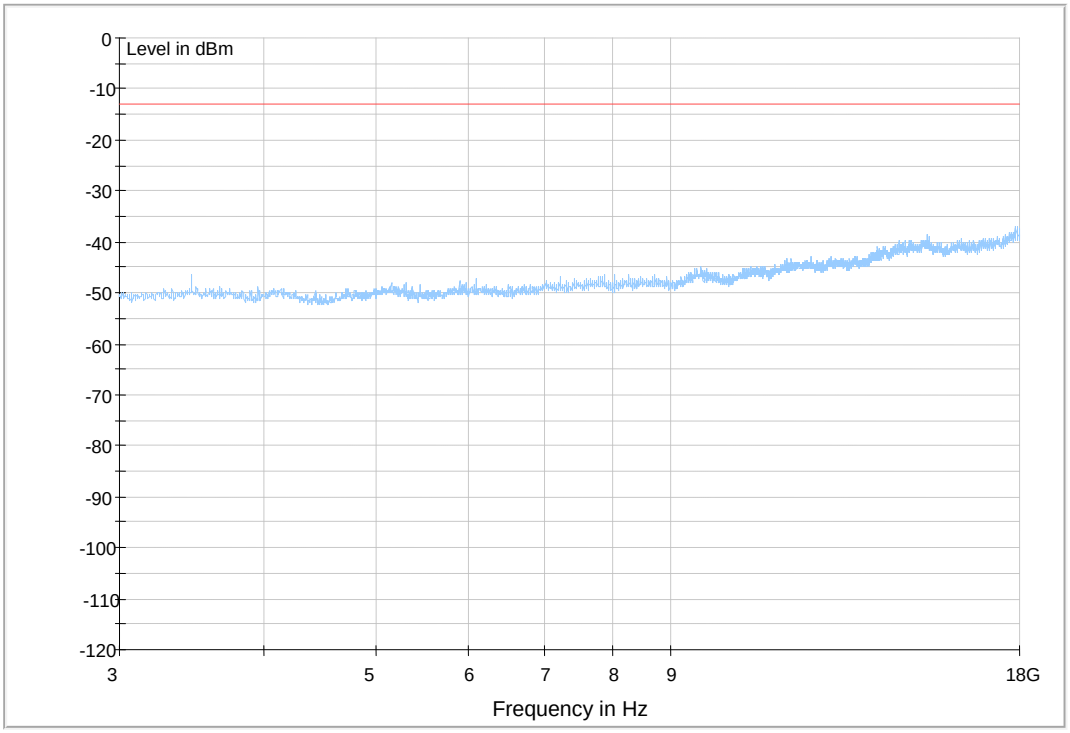
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

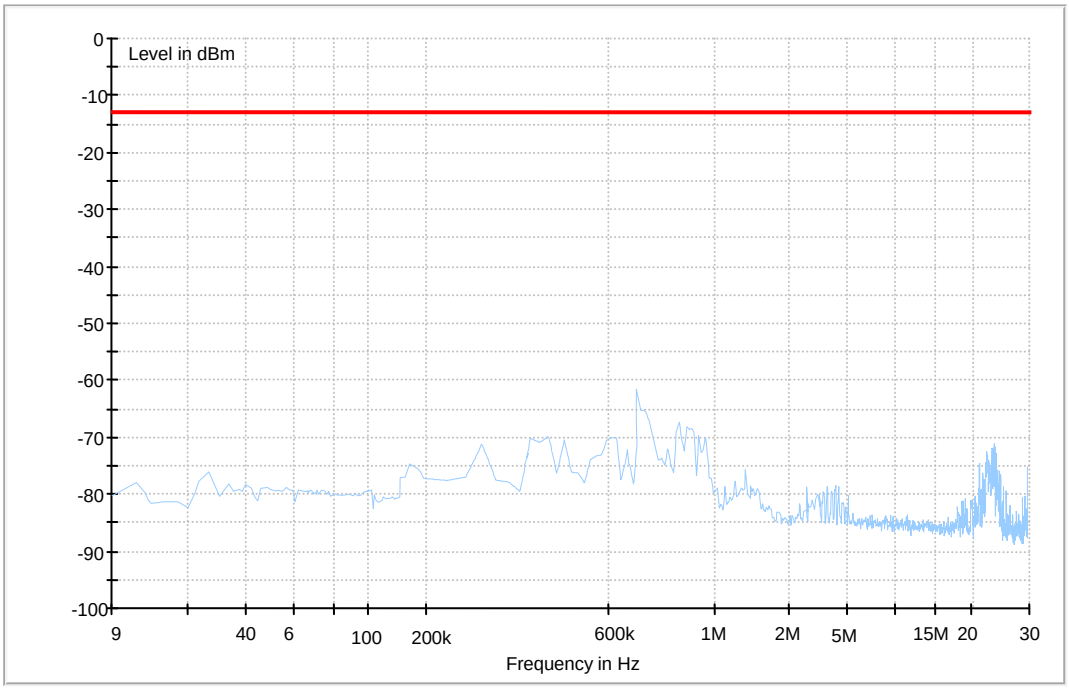


Traffic Mode (3GHz-18GHz)

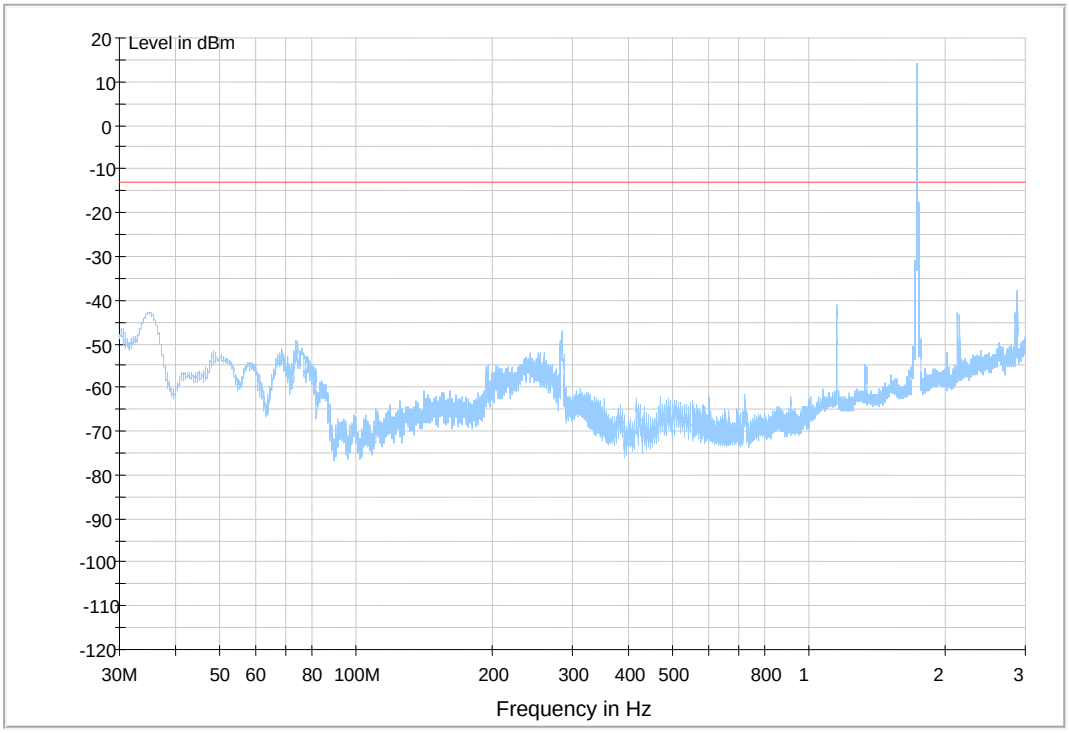


LTE band IV (Channel Bandwidth=3MHz)

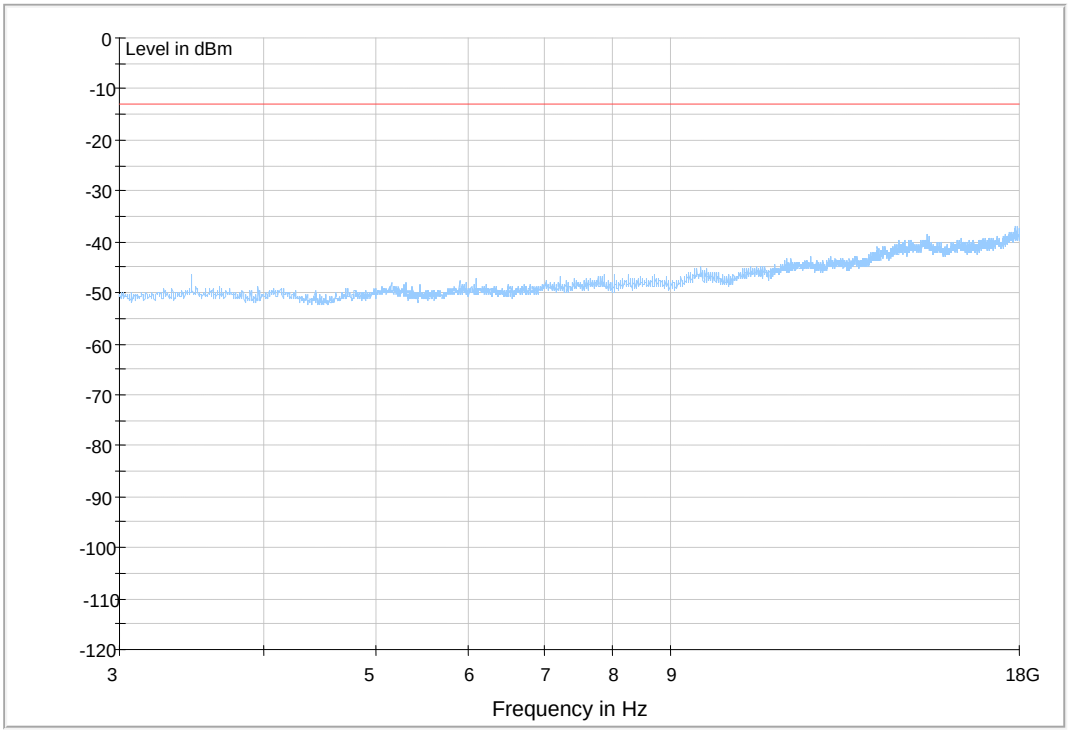
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

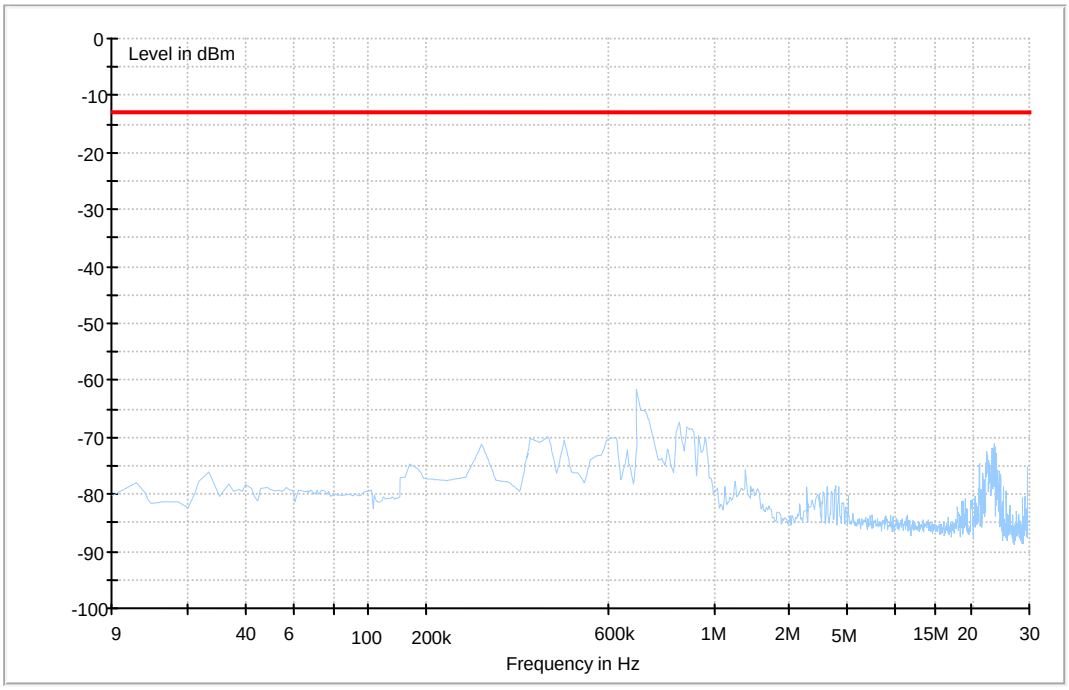


Traffic Mode (3GHz-18GHz)

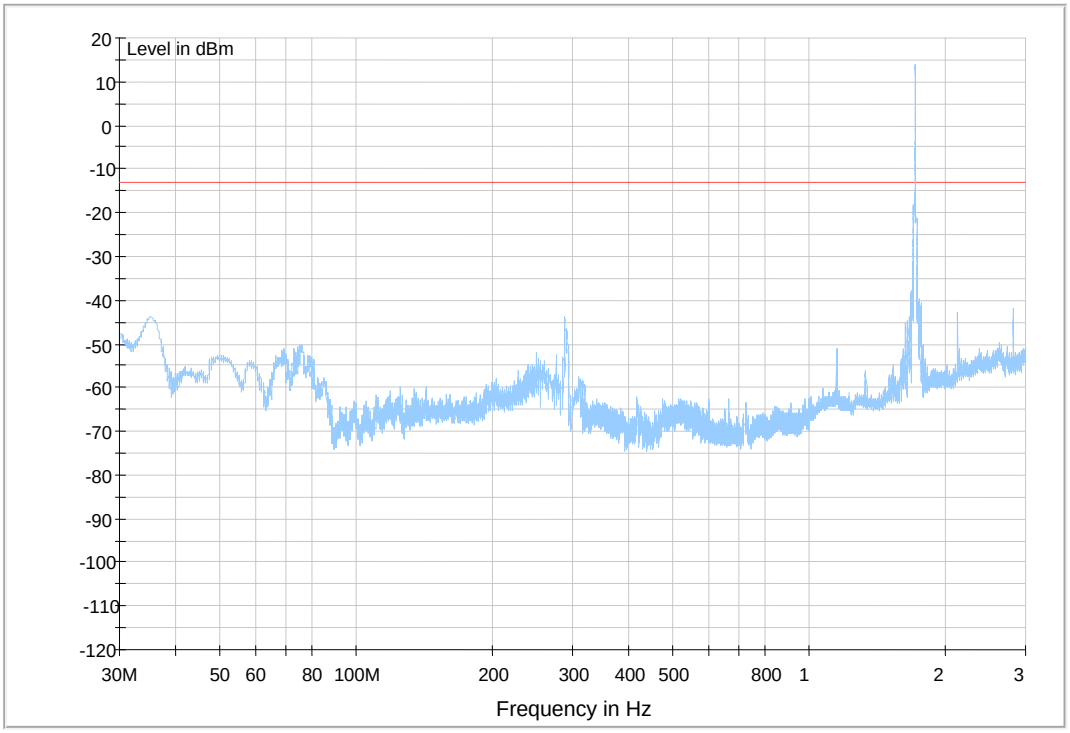


LTE band IV (Channel Bandwidth=5MHz)

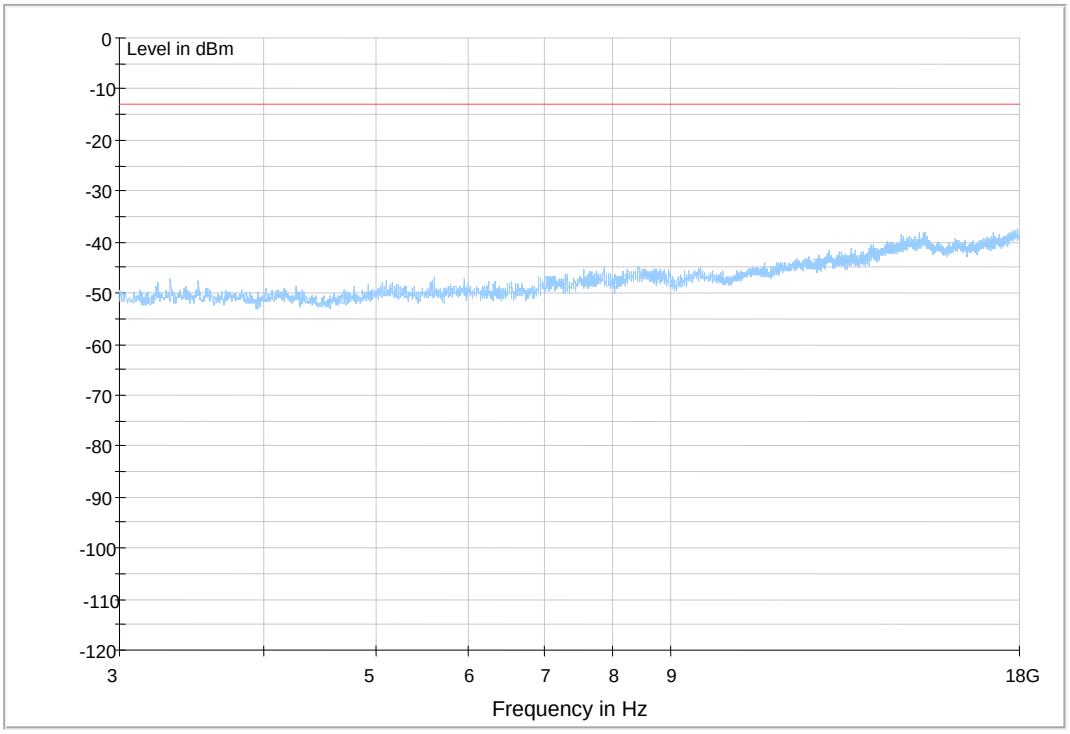
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

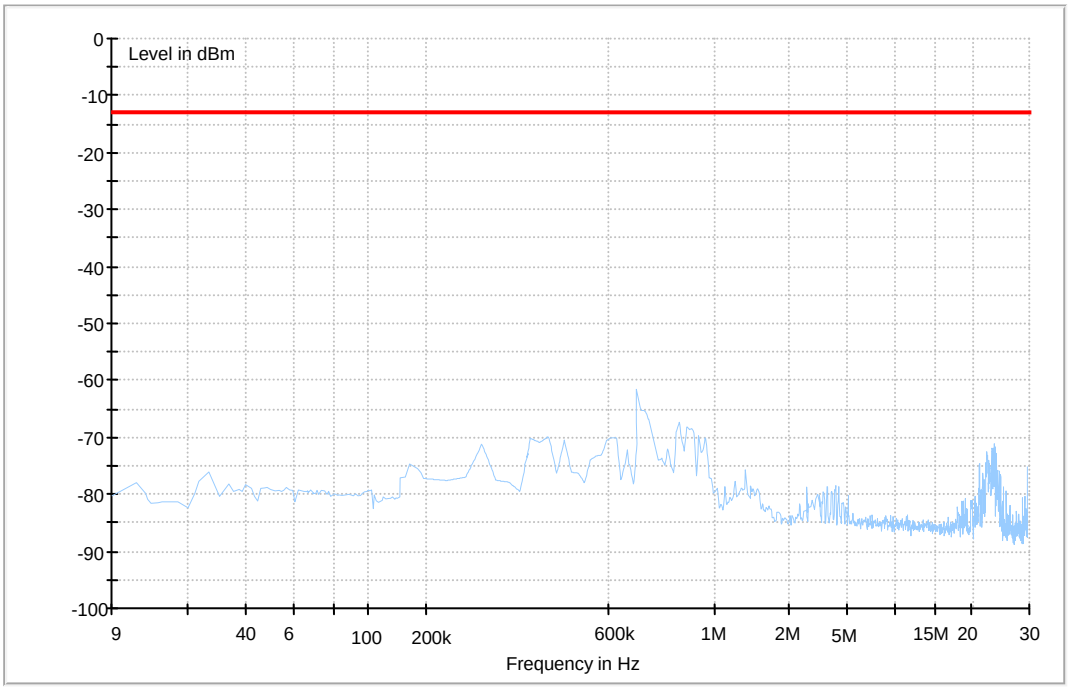


Traffic Mode (3GHz-18GHz)

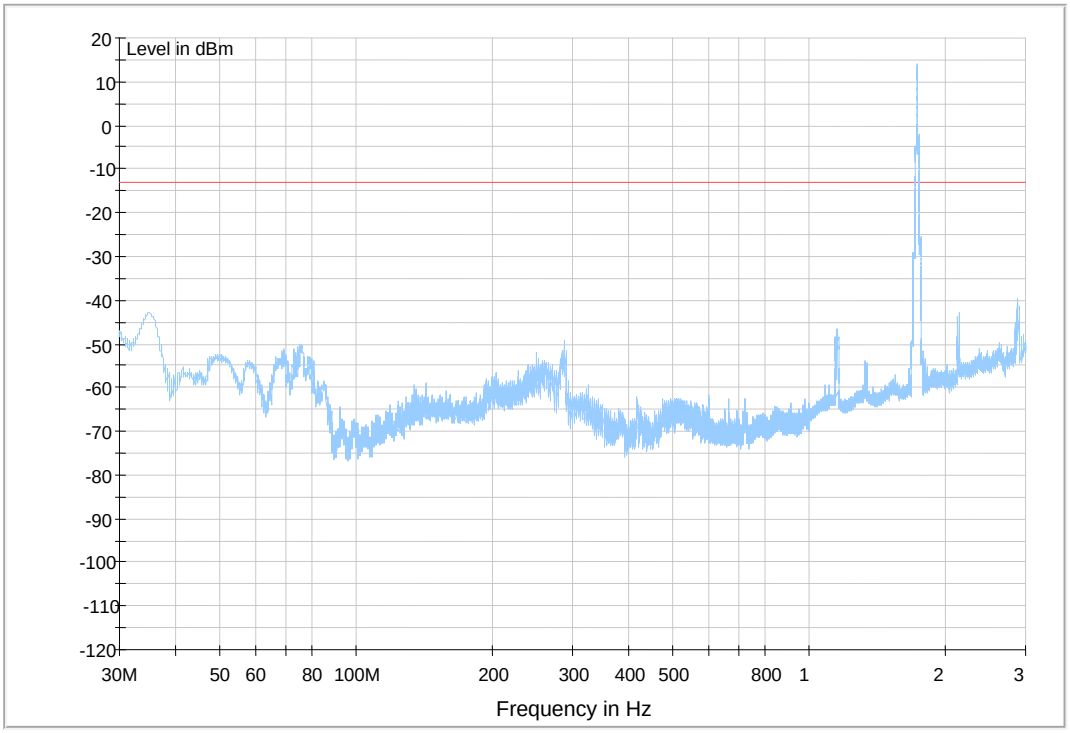
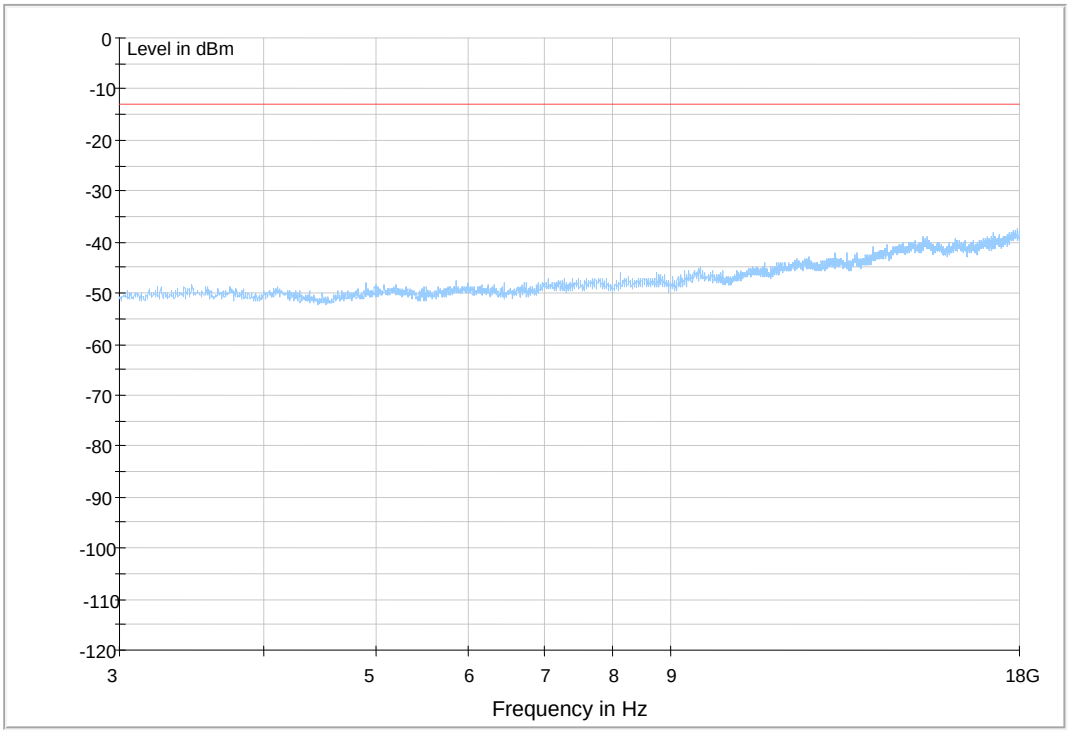


For LTE band IV (Channel Bandwidth=10MHz)

Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)