



**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

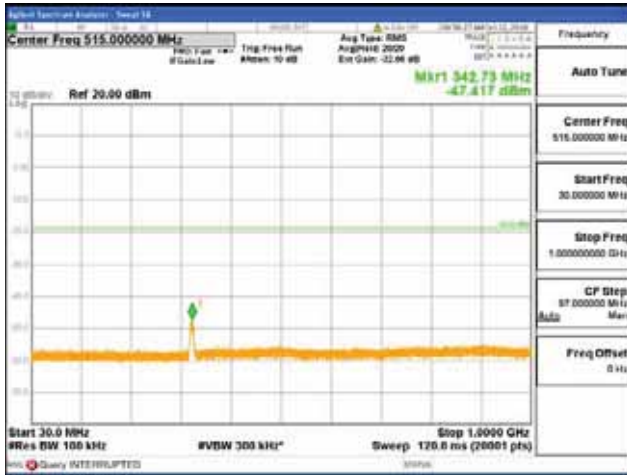
9 kHz - 150 kHz



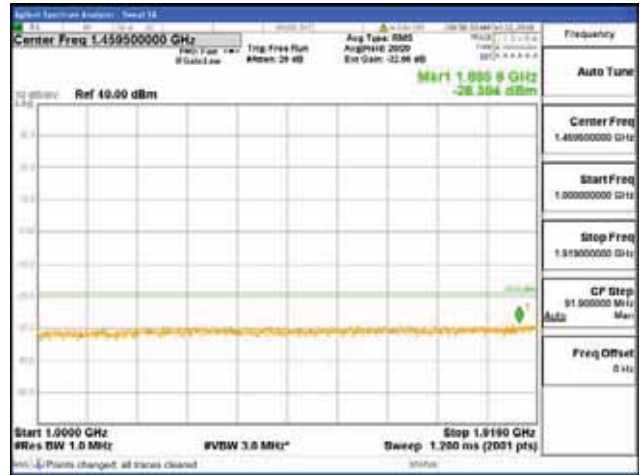
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





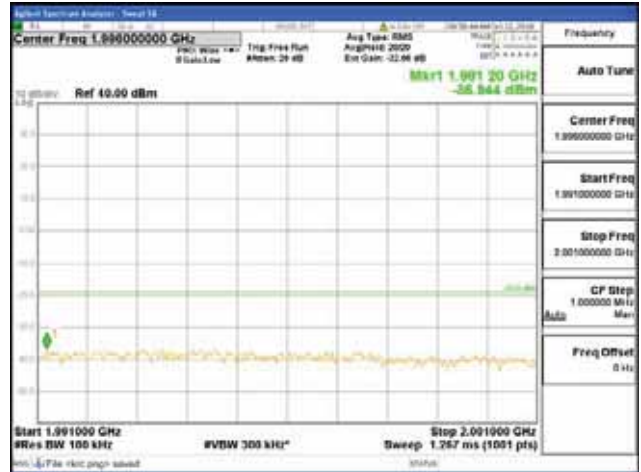
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1919 MHz - 1929 MHz



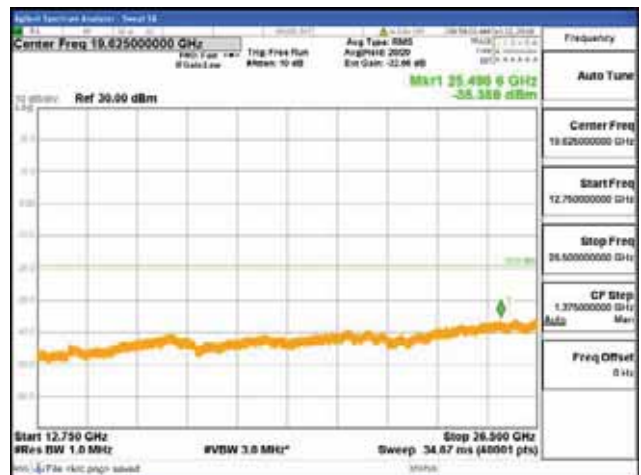
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Top**  
 [QPSK]

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

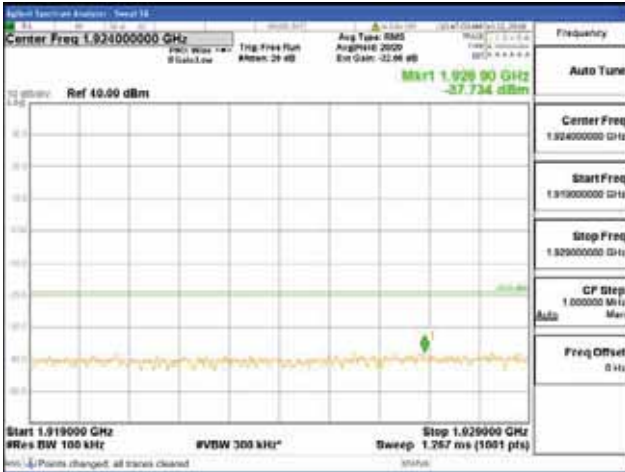




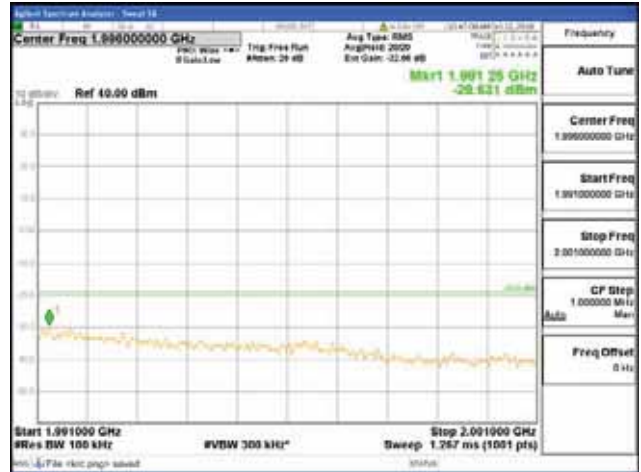
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



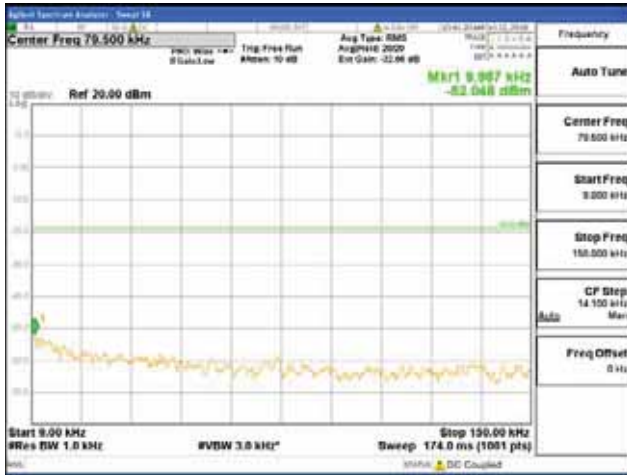


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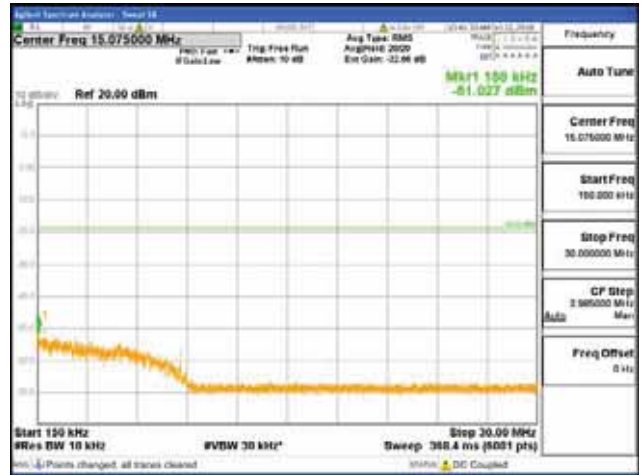
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[16QAM]

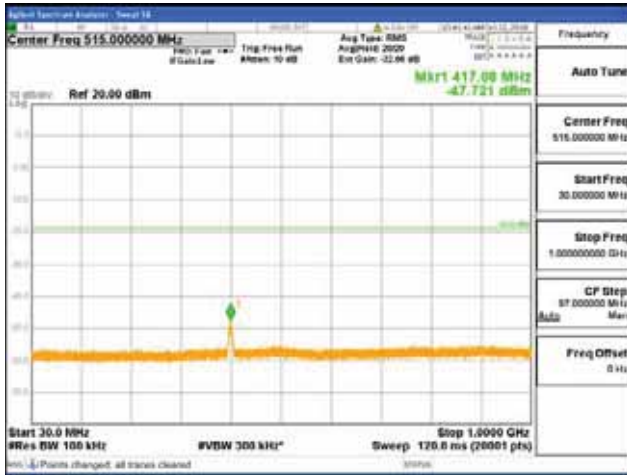
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

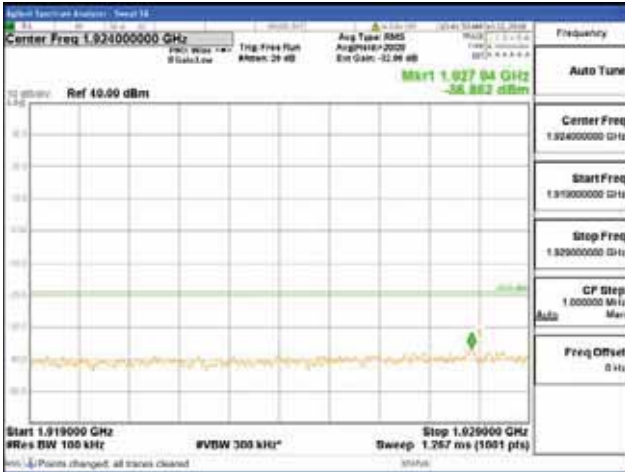




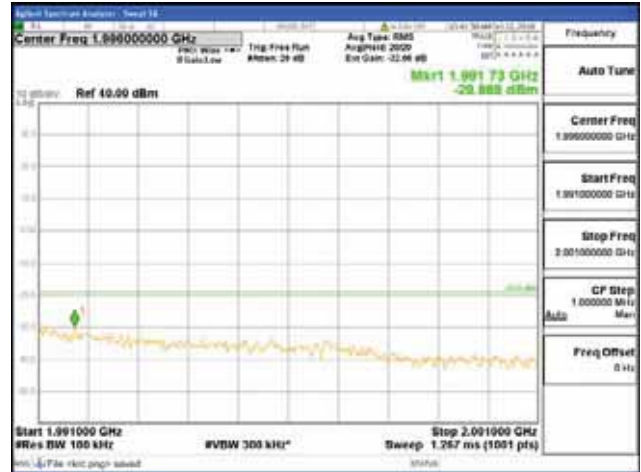
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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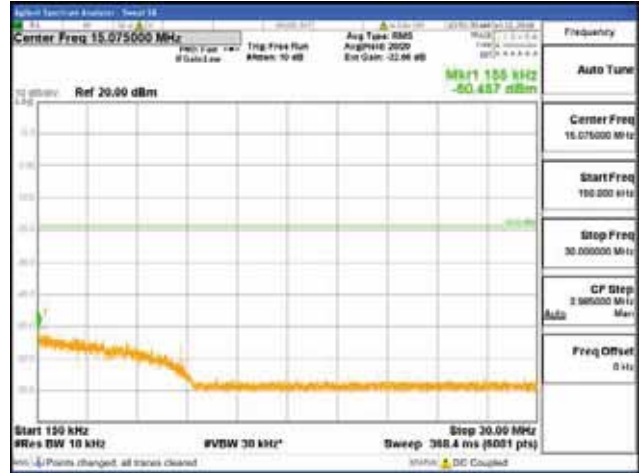
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[64QAM]

9 kHz - 150 kHz



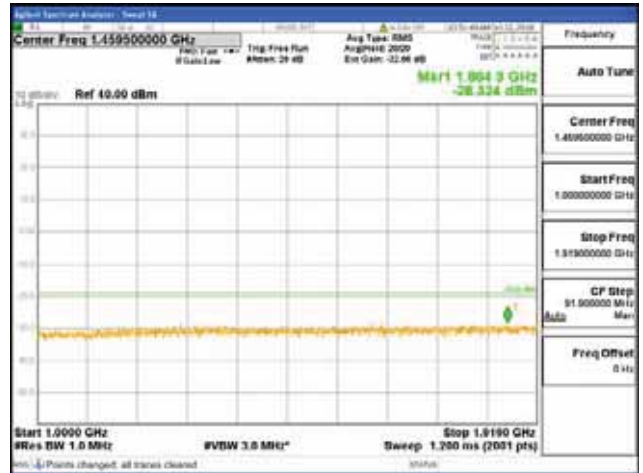
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz



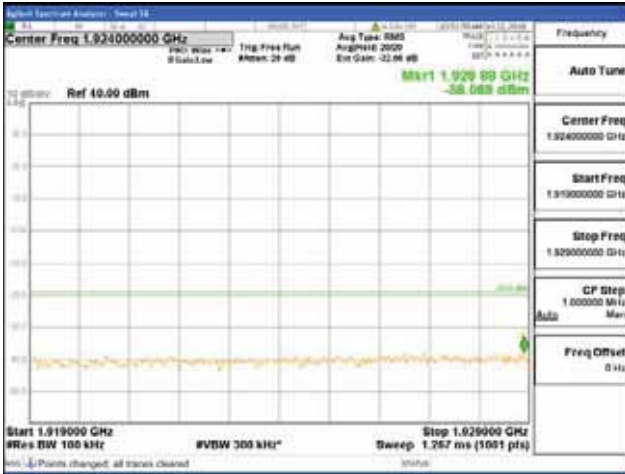




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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



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[256QAM]

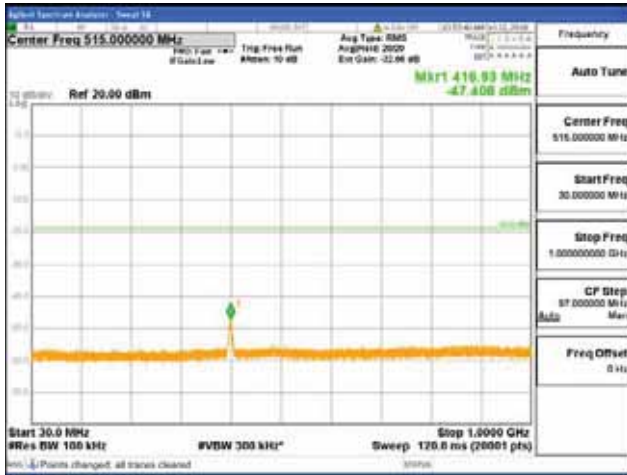
9 kHz - 150 kHz



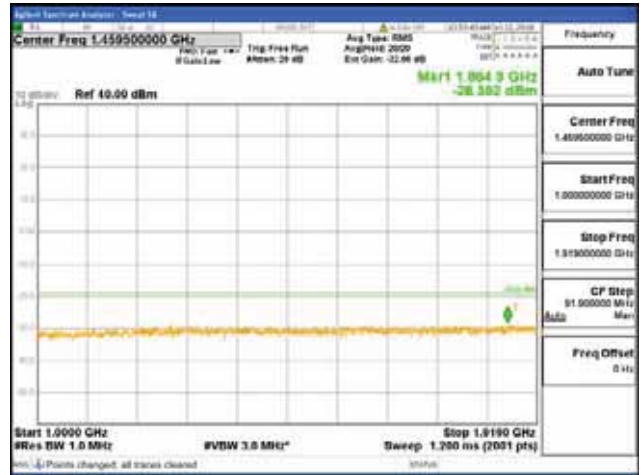
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





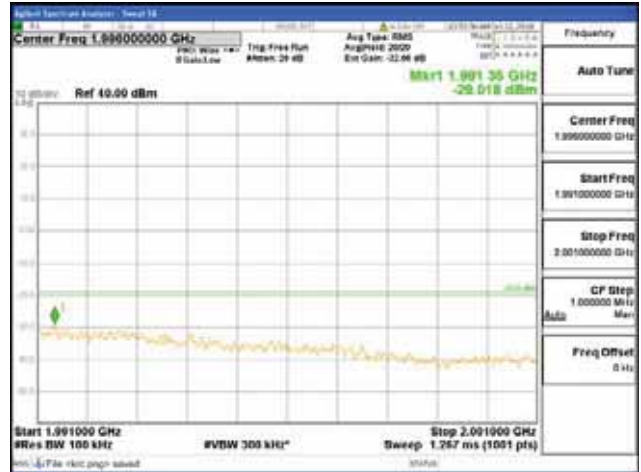
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1919 MHz - 1929 MHz



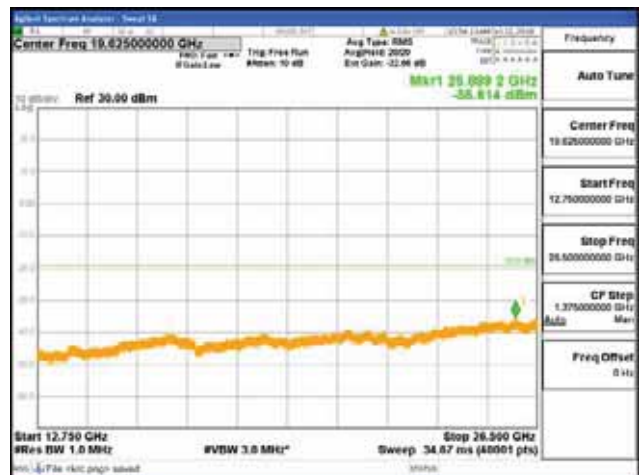
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



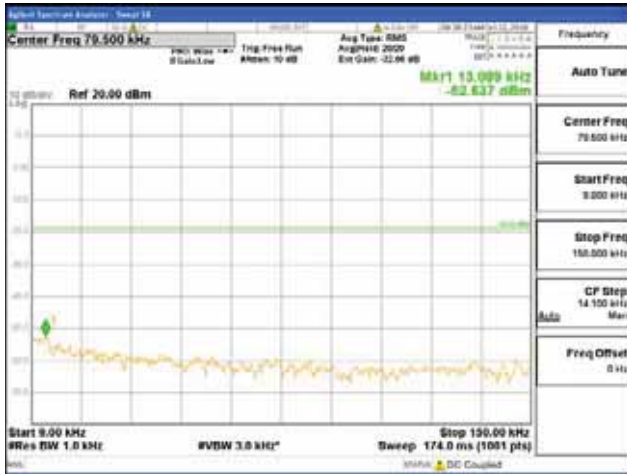


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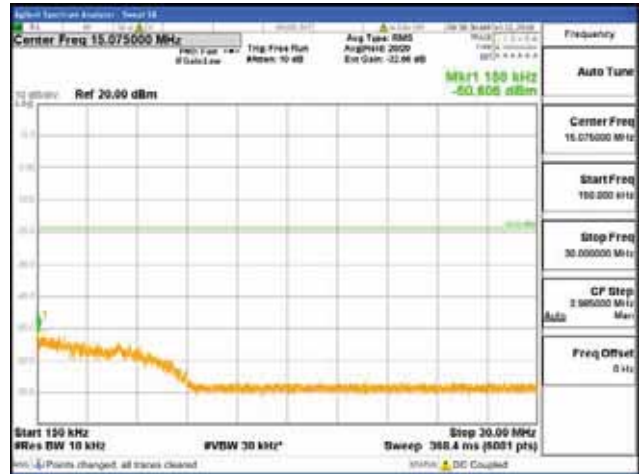
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**ANT 2**  
**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Bottom**  
**[QPSK]**

9 kHz - 150 kHz



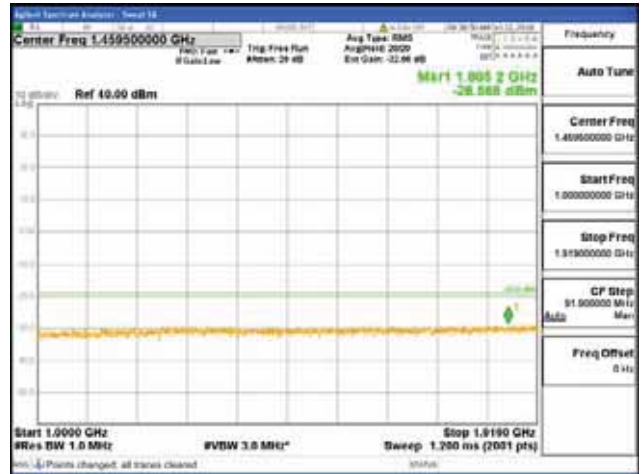
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





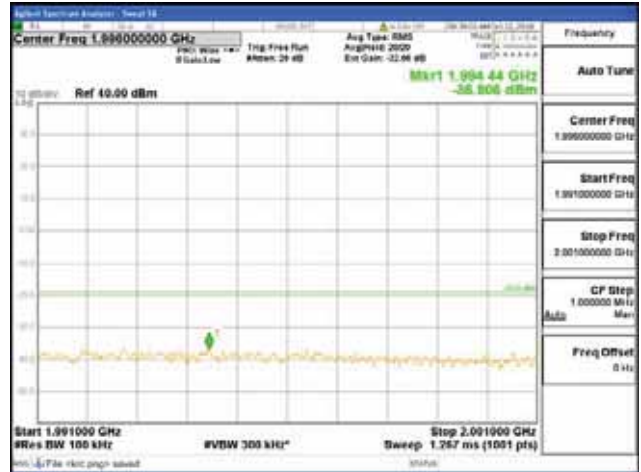
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



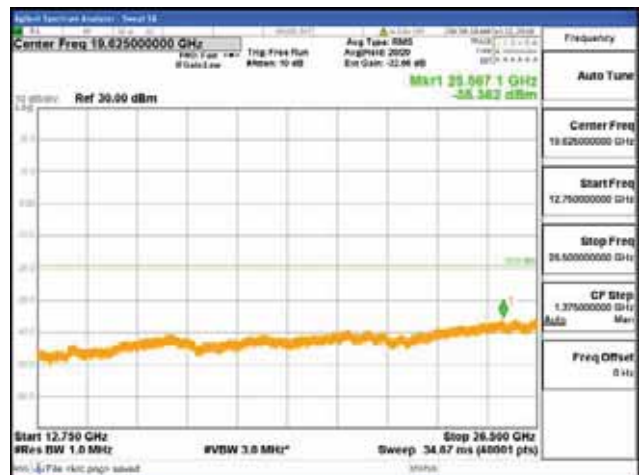
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



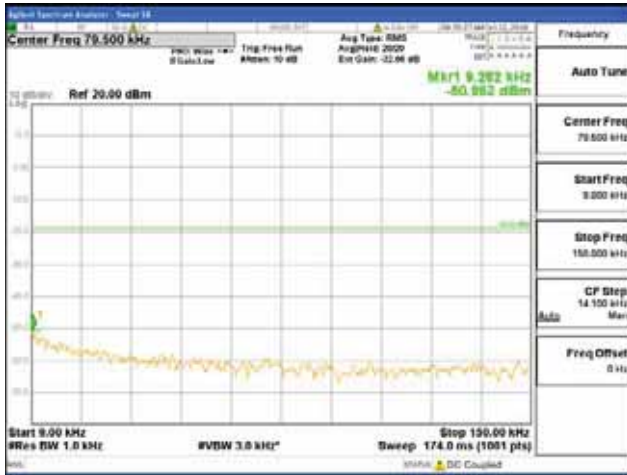


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[16QAM]

9 kHz - 150 kHz



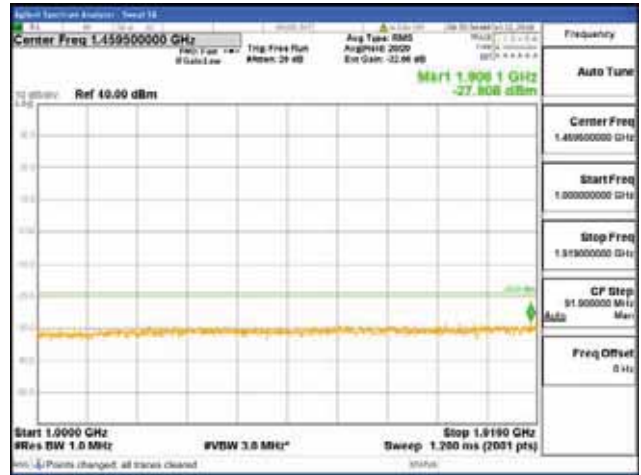
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





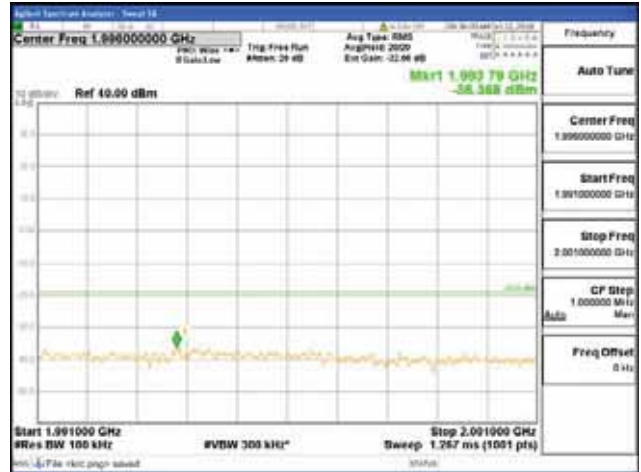
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

9 kHz - 150 kHz



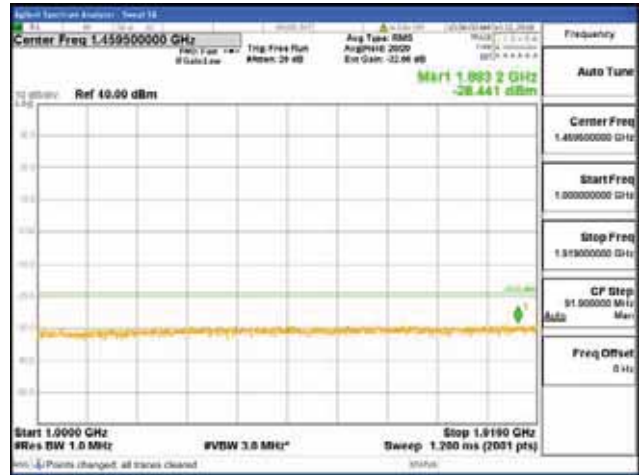
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







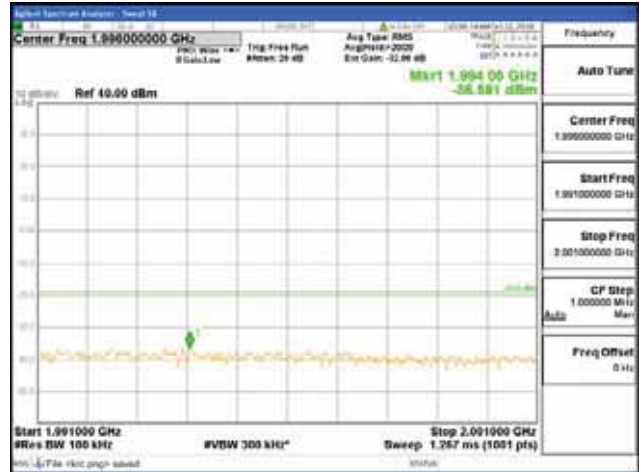
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

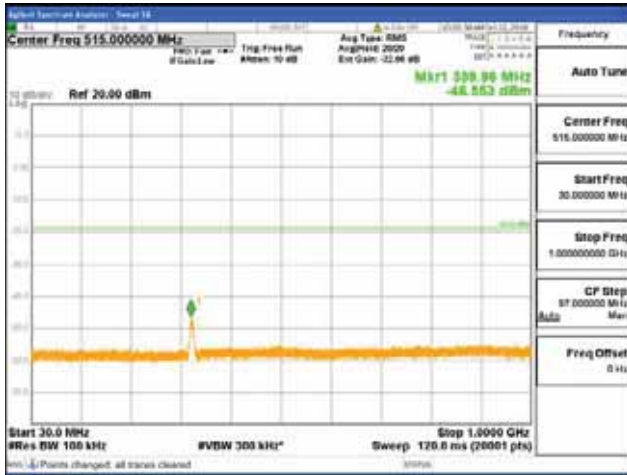
9 kHz - 150 kHz



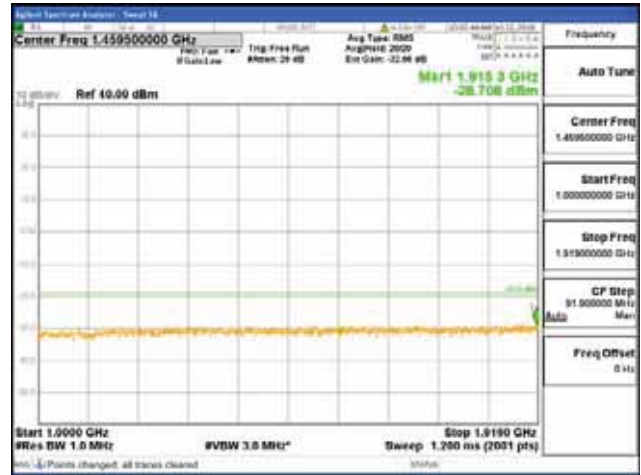
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





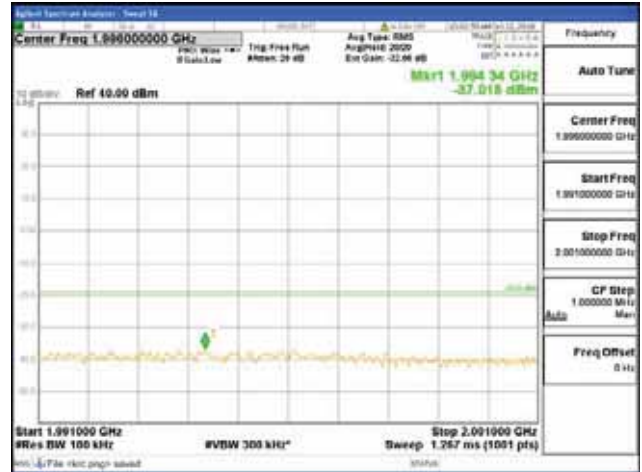
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz

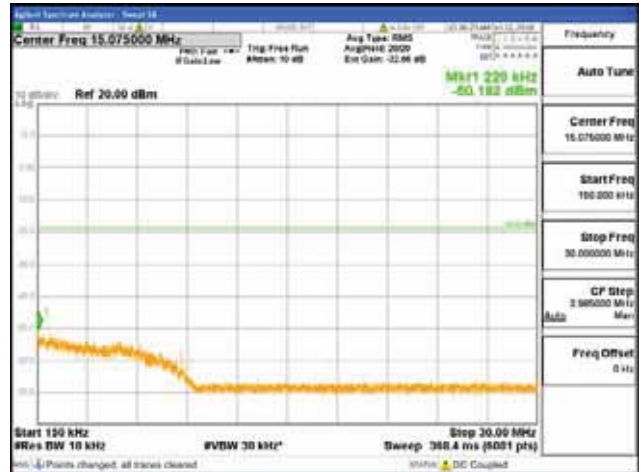


**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Top**  
 [QPSK]

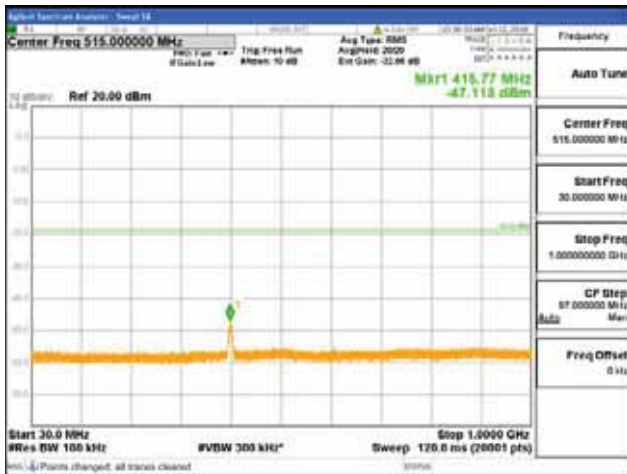
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





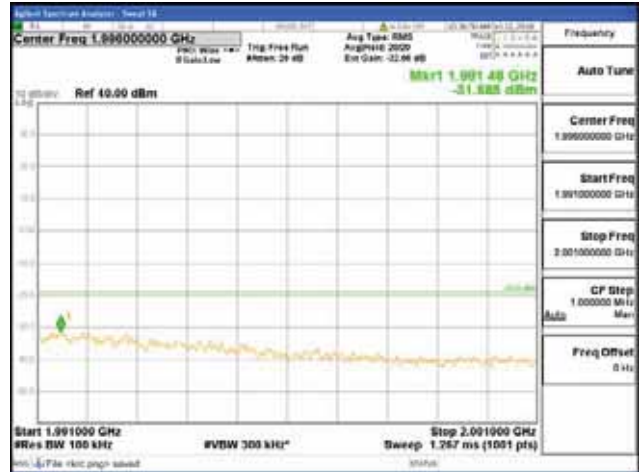
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[16QAM]

9 kHz - 150 kHz



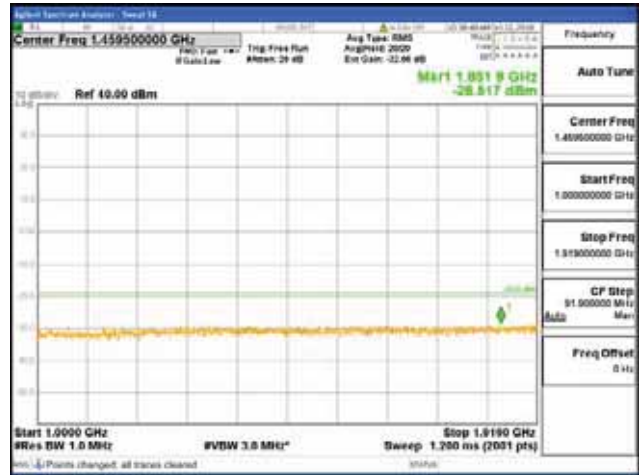
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





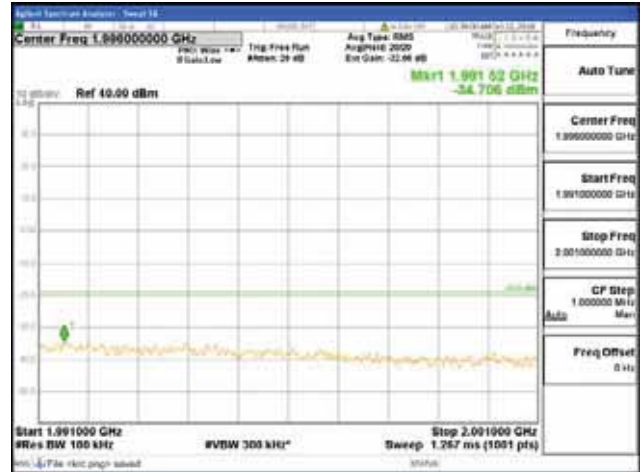
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



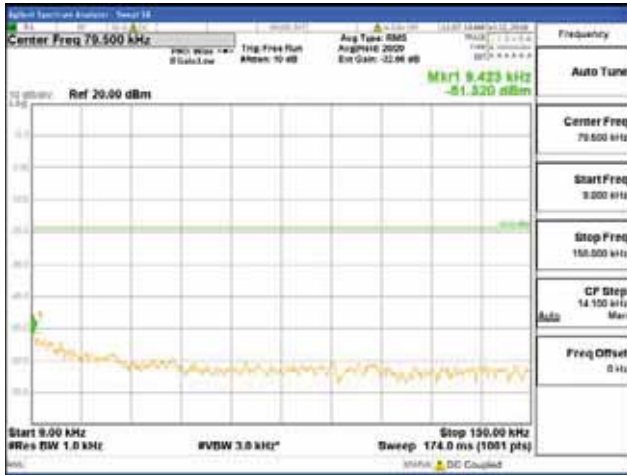


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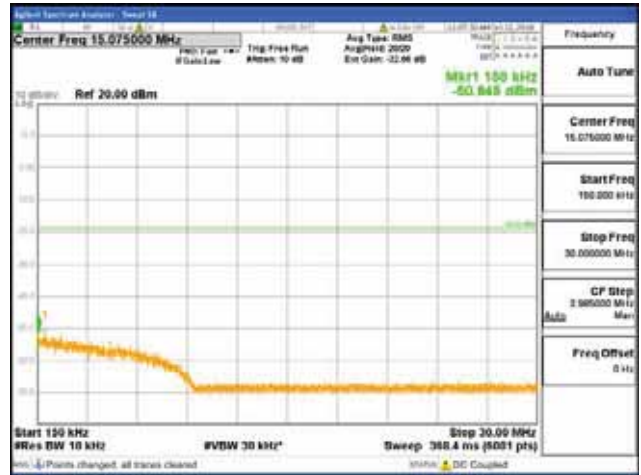
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[64QAM]

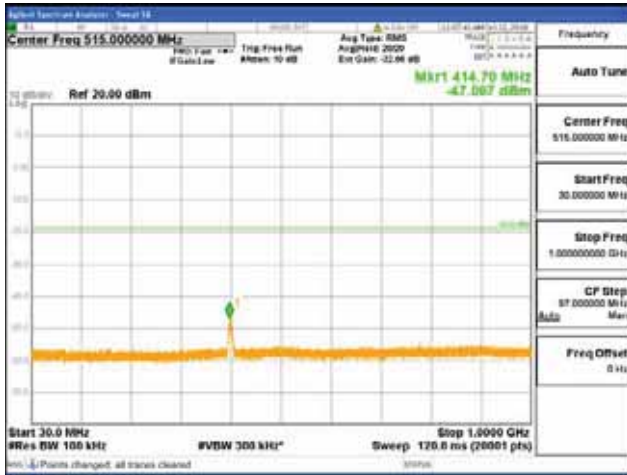
9 kHz - 150 kHz



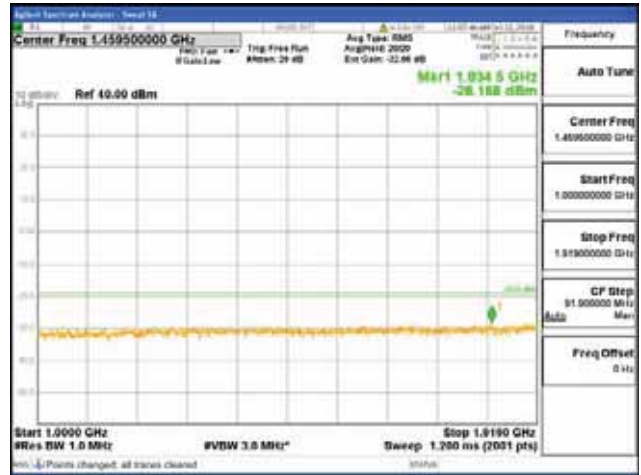
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







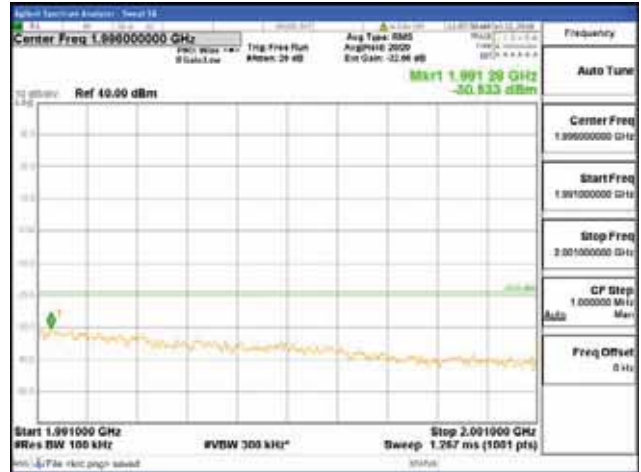
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1919 MHz - 1929 MHz



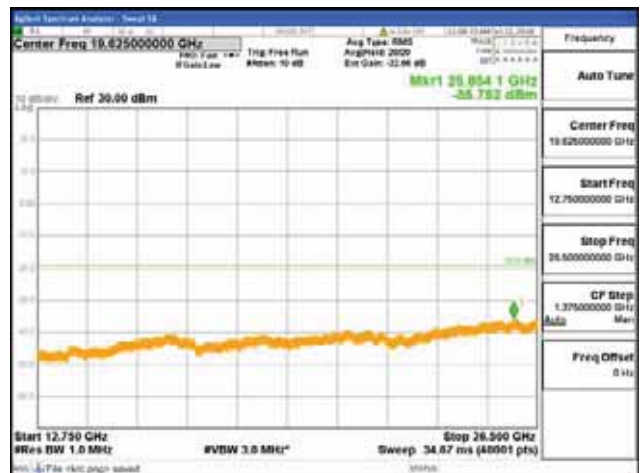
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



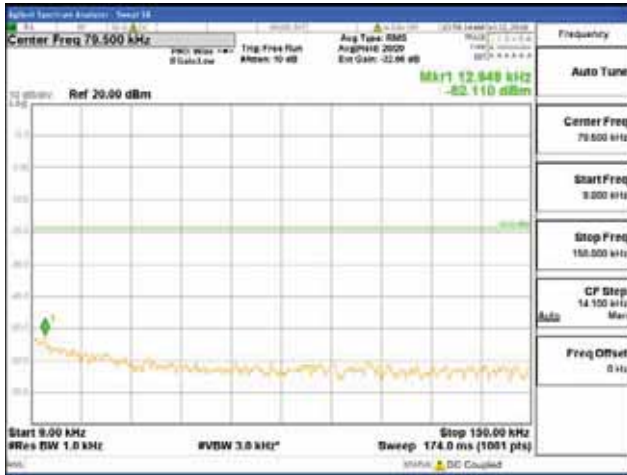


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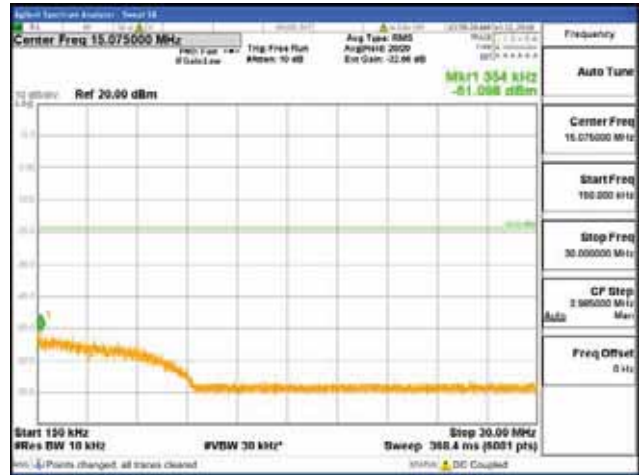
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[256QAM]

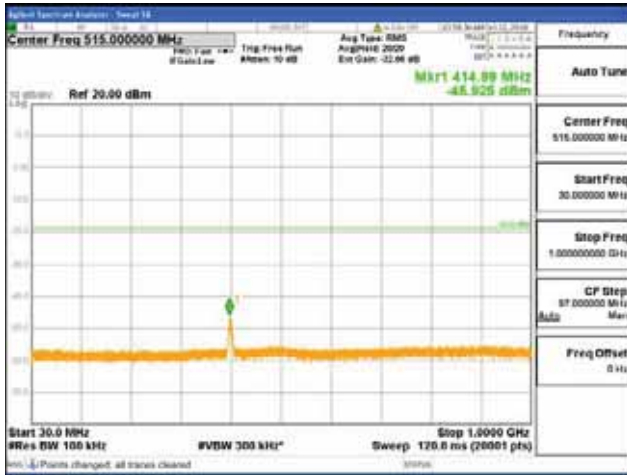
9 kHz - 150 kHz



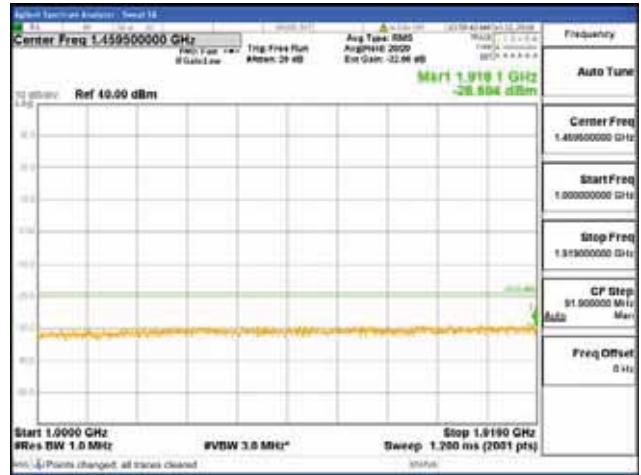
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





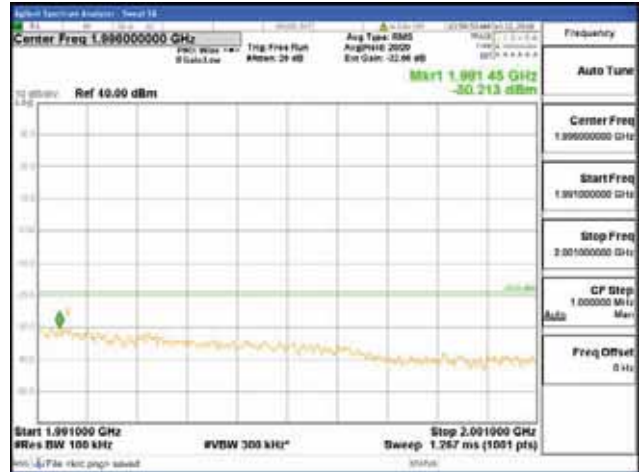
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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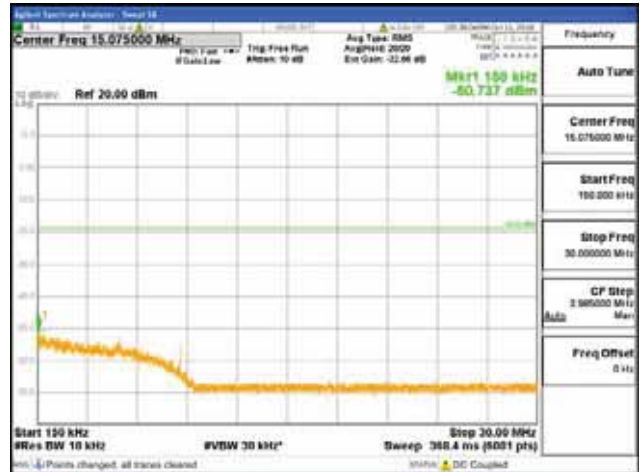
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**ANT 3**  
**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Bottom**  
**[QPSK]**

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





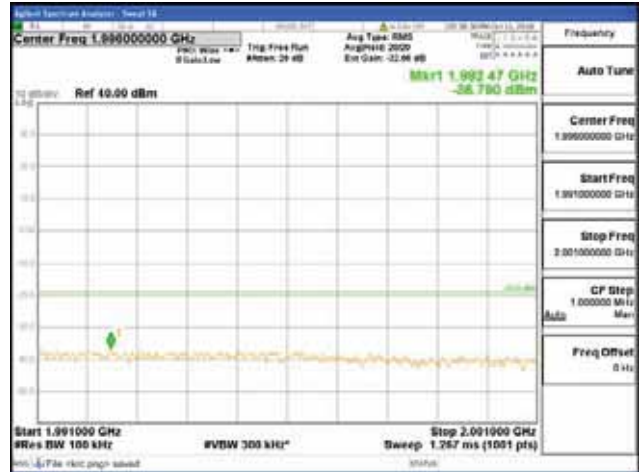
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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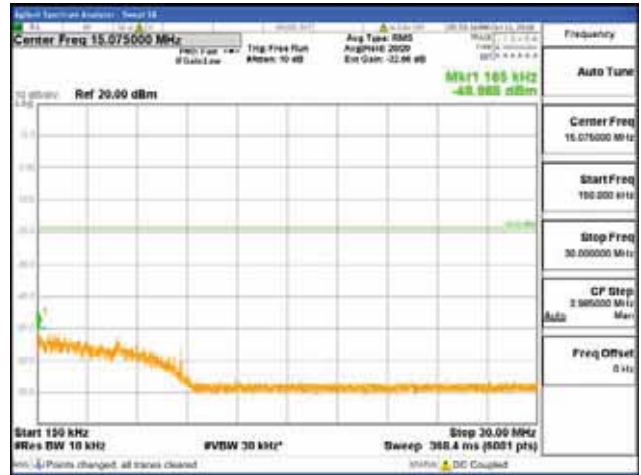
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[16QAM]

9 kHz - 150 kHz



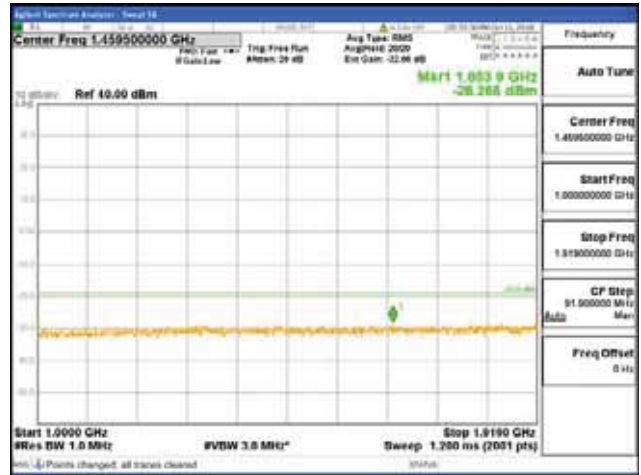
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





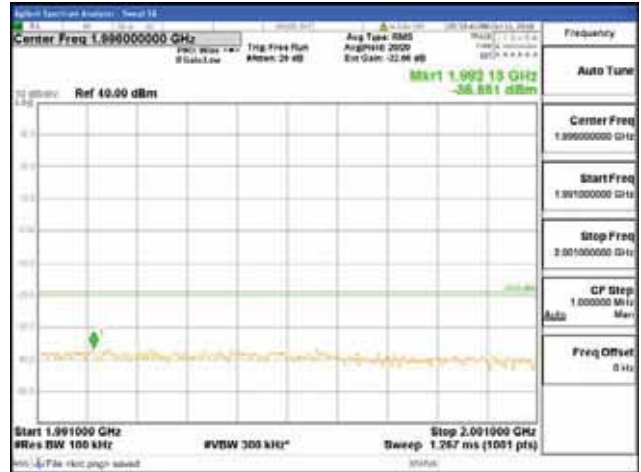
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

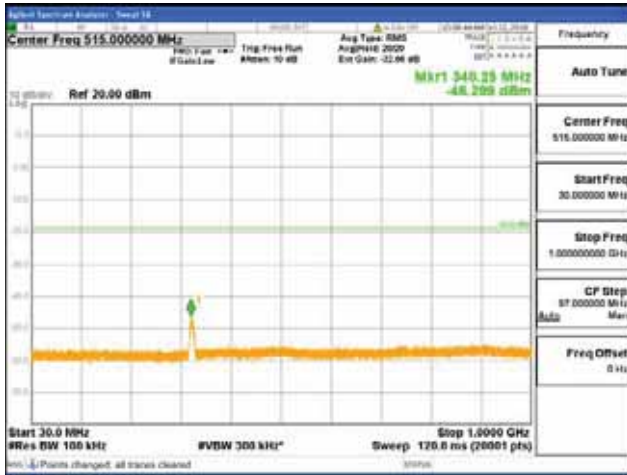
9 kHz - 150 kHz



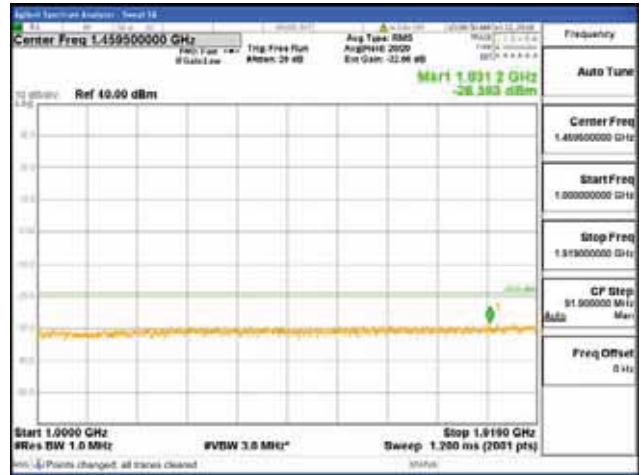
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







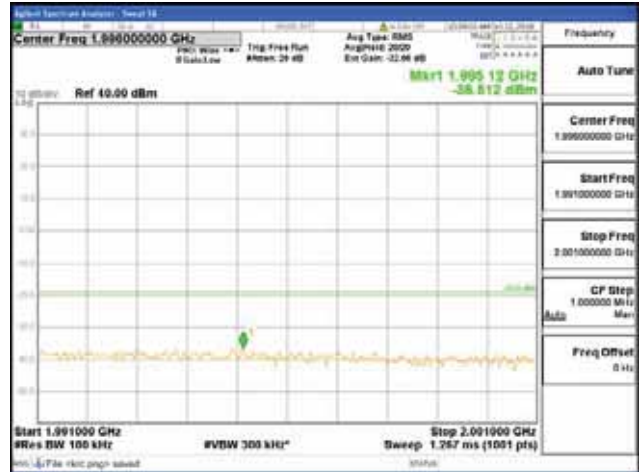
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

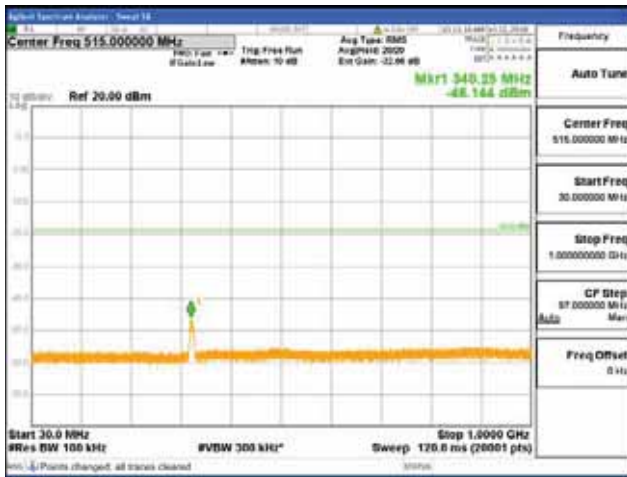
9 kHz - 150 kHz



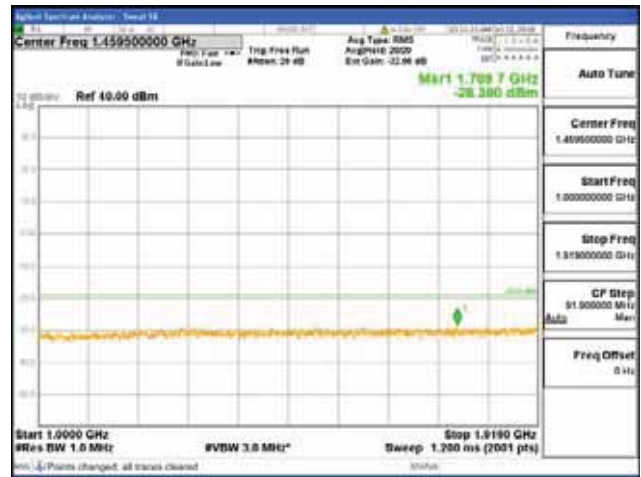
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





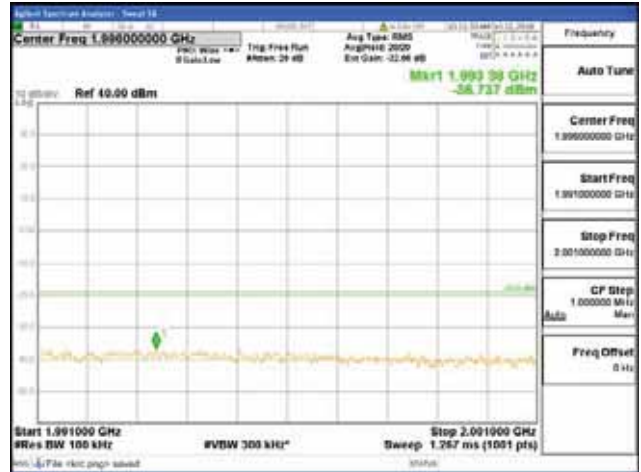
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Top**  
 [QPSK]

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





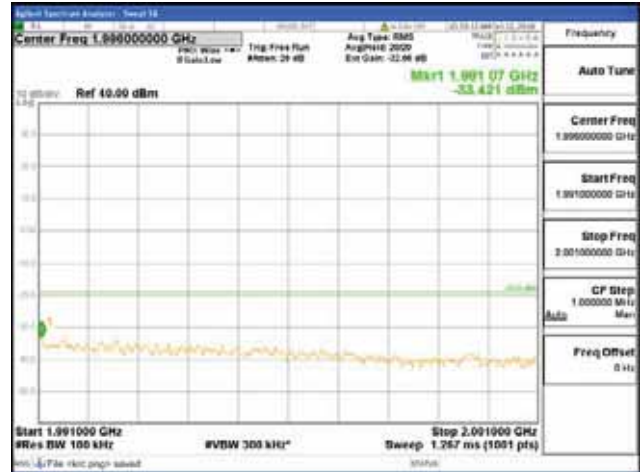
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



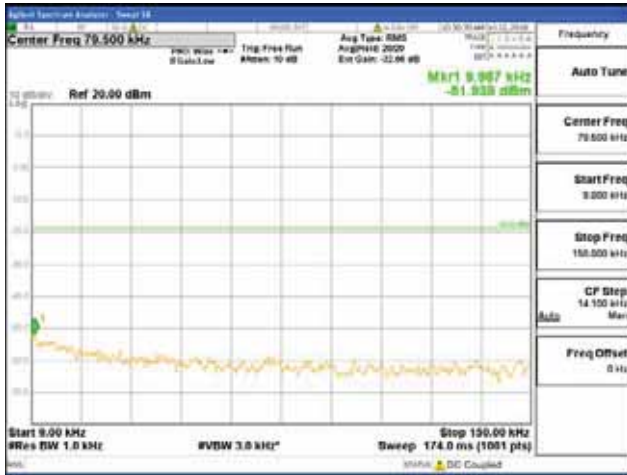


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[16QAM]

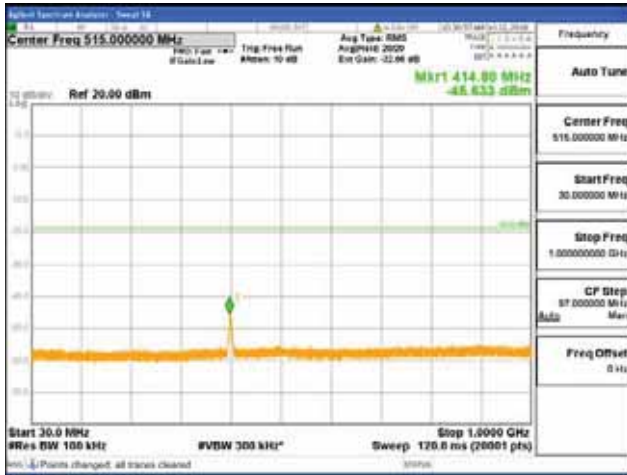
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

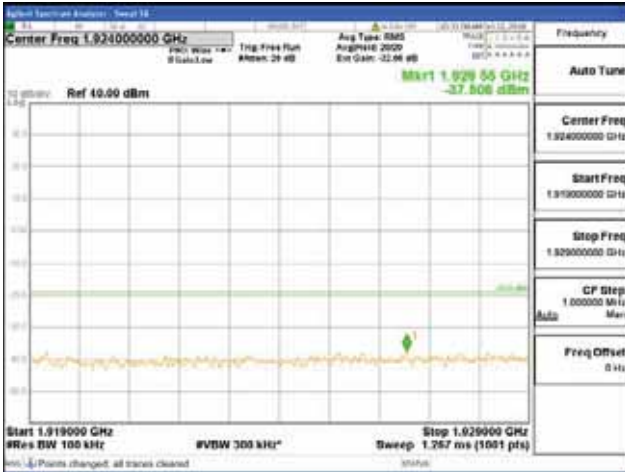




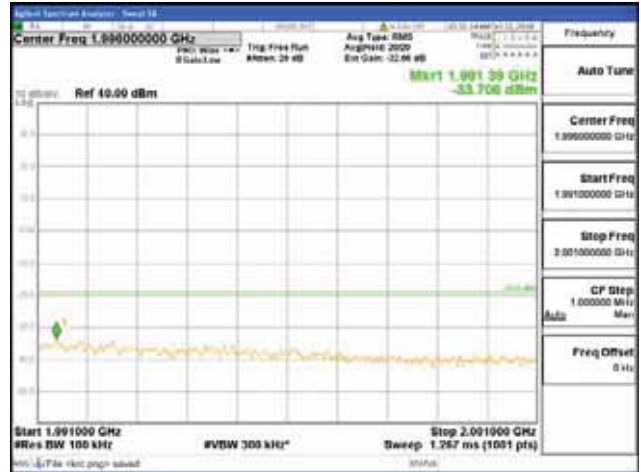
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



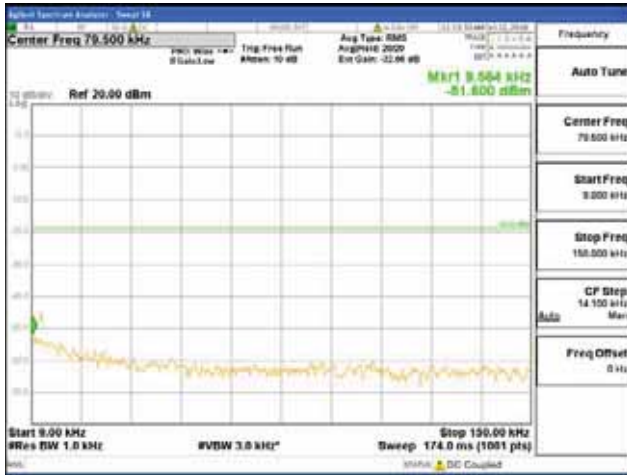


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[64QAM]

9 kHz - 150 kHz



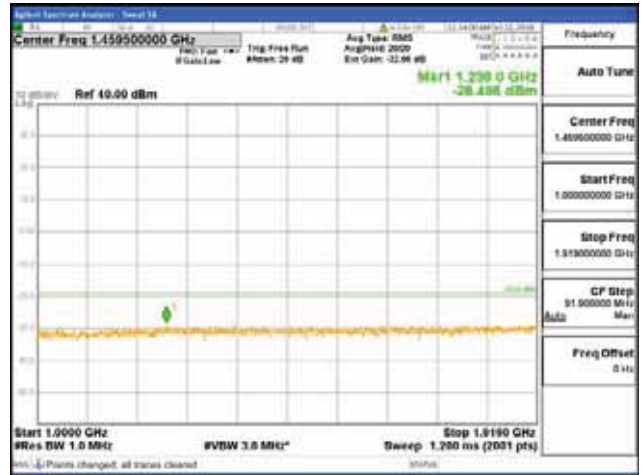
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







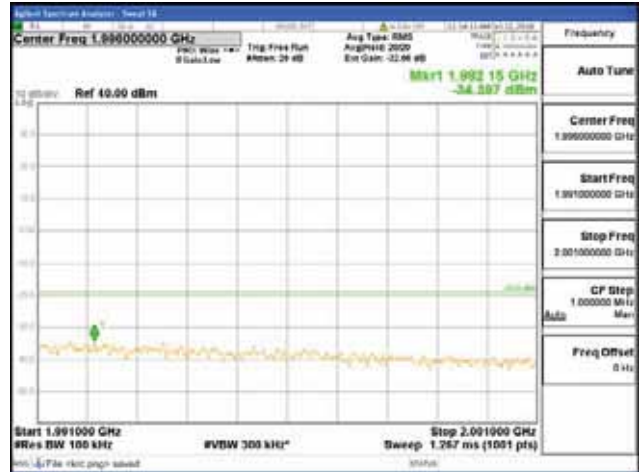
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



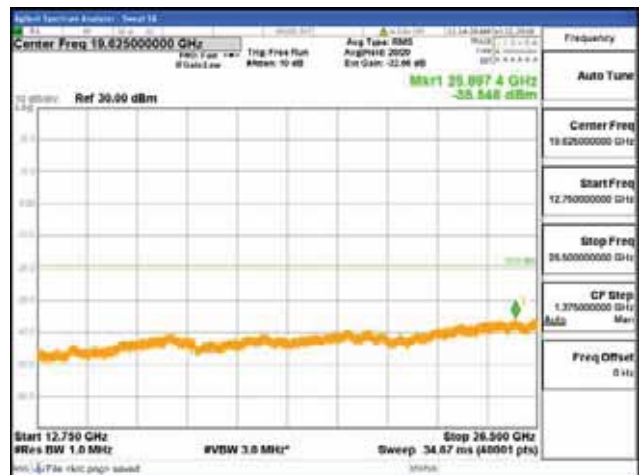
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



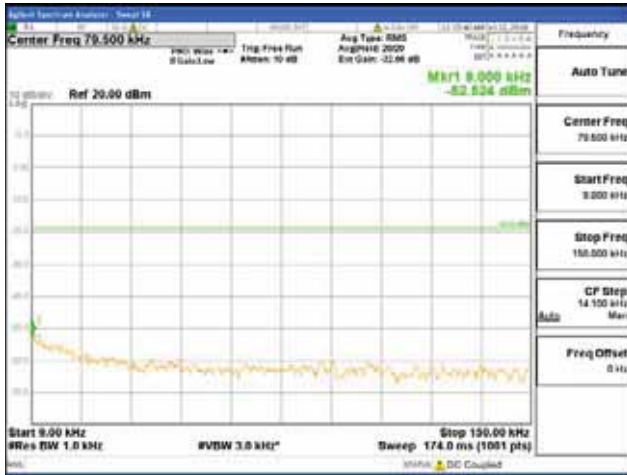


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[256QAM]

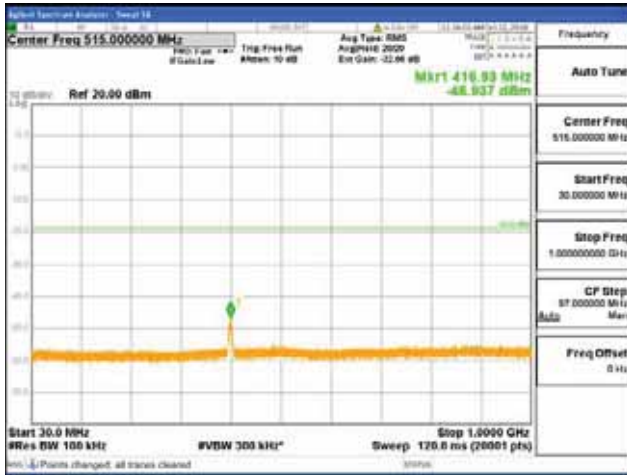
9 kHz - 150 kHz



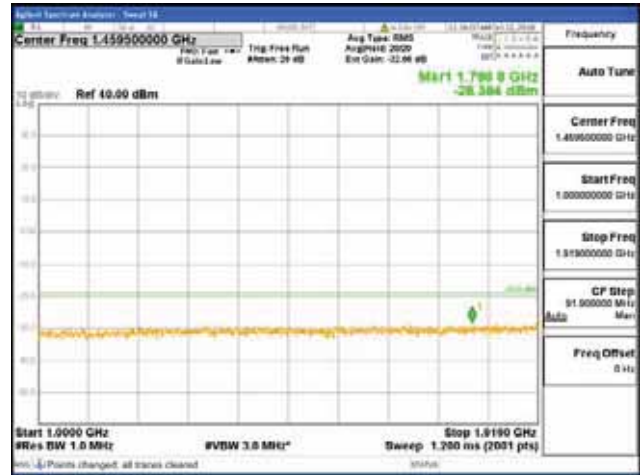
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





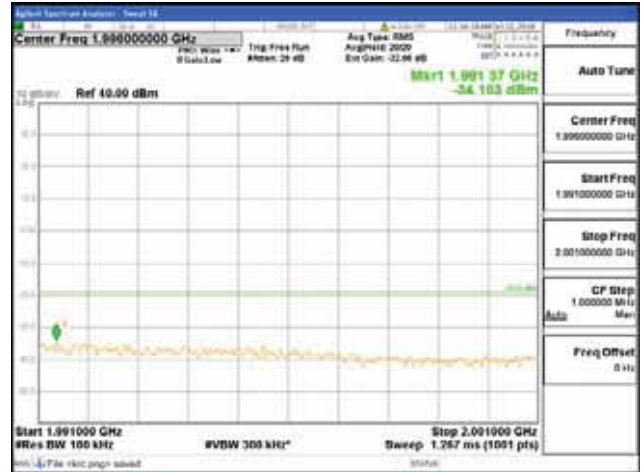
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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**ANT 4**  
**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Bottom**  
**[QPSK]**

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





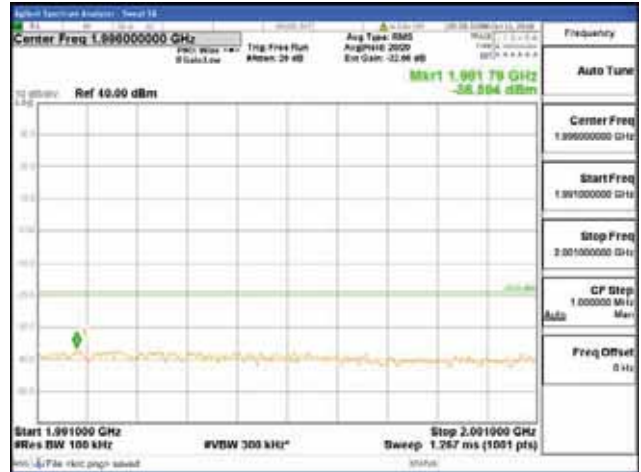
**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



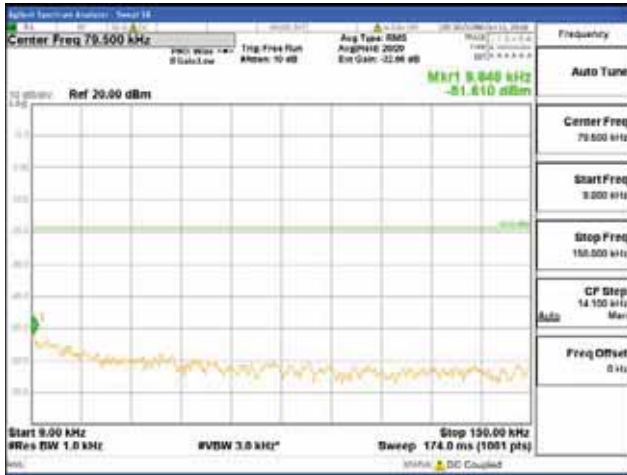


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[16QAM]

9 kHz - 150 kHz



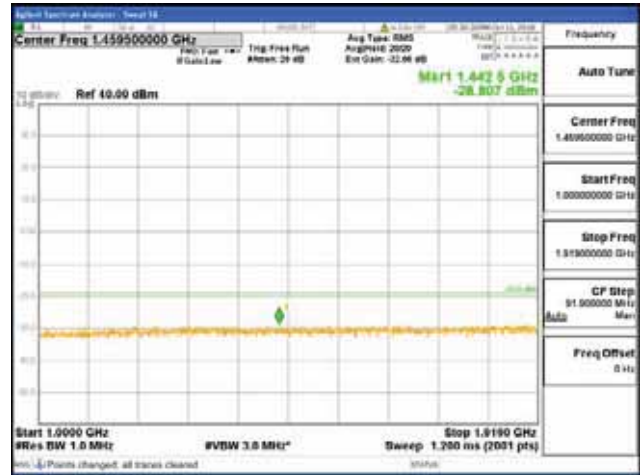
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





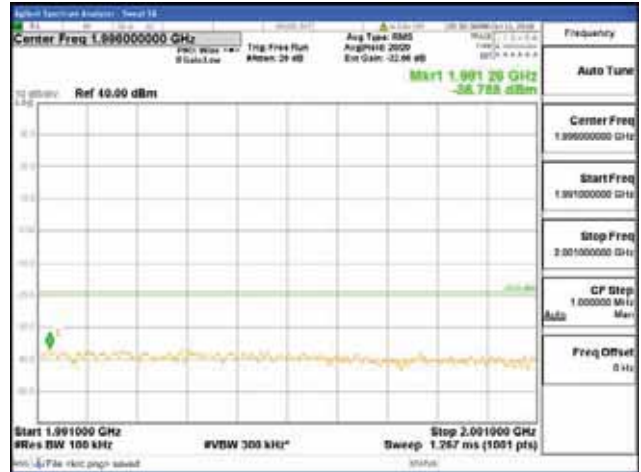
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



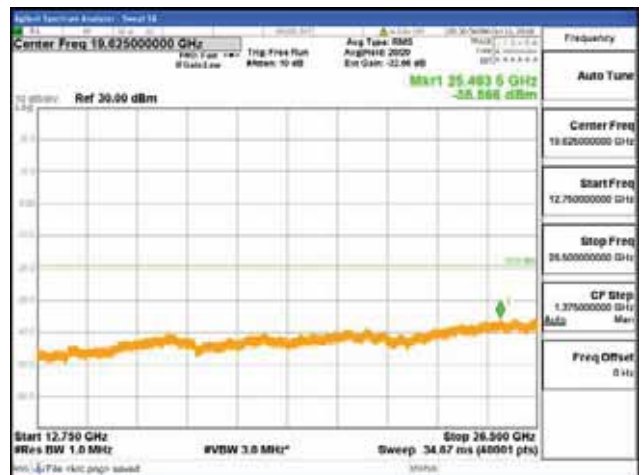
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

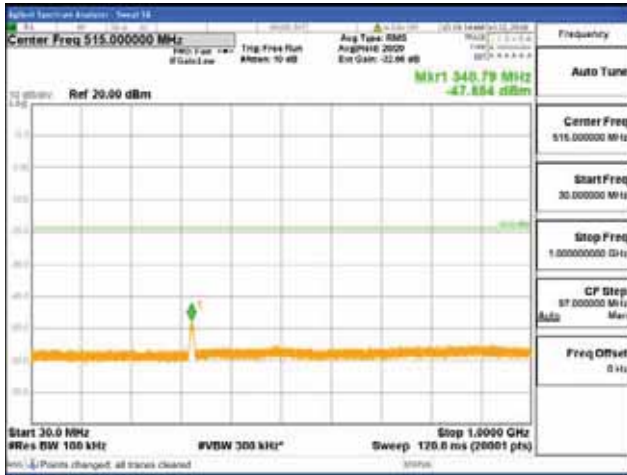
9 kHz - 150 kHz



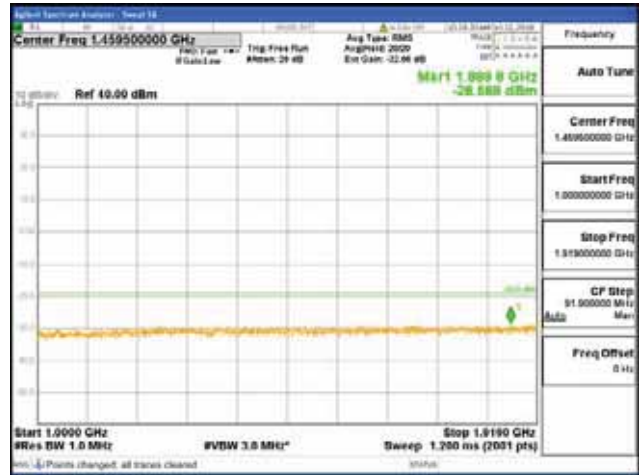
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz



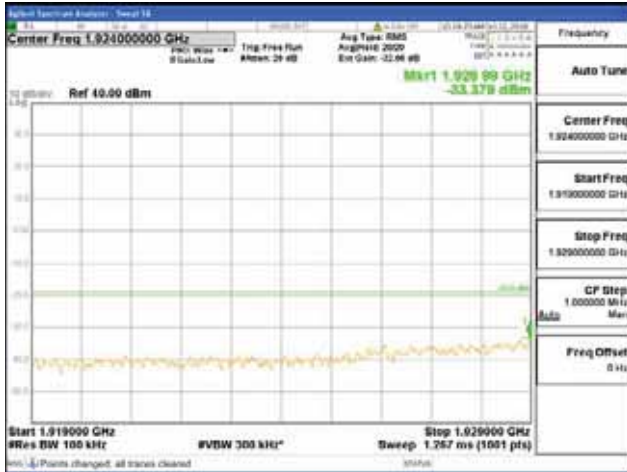




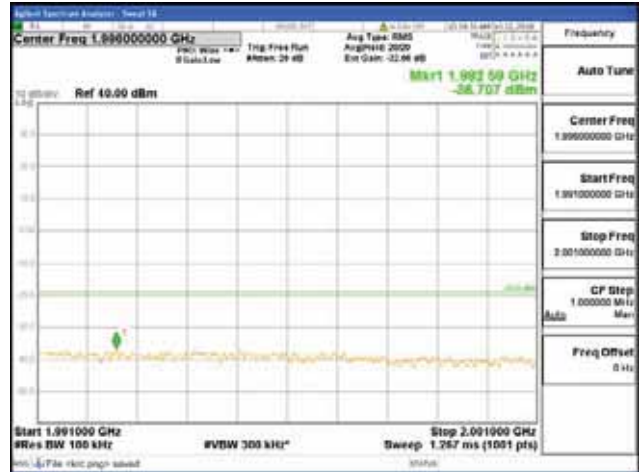
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

9 kHz - 150 kHz



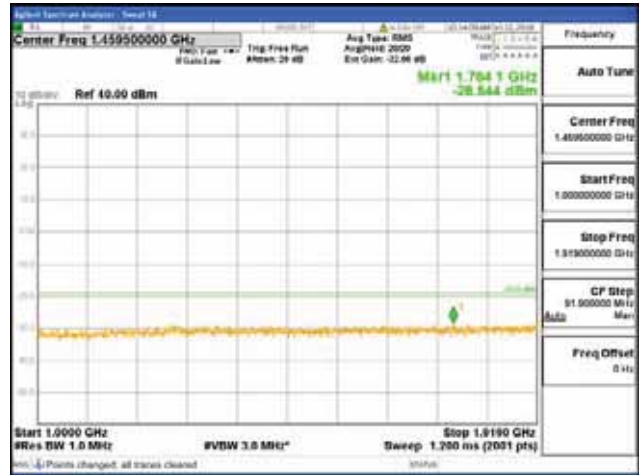
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





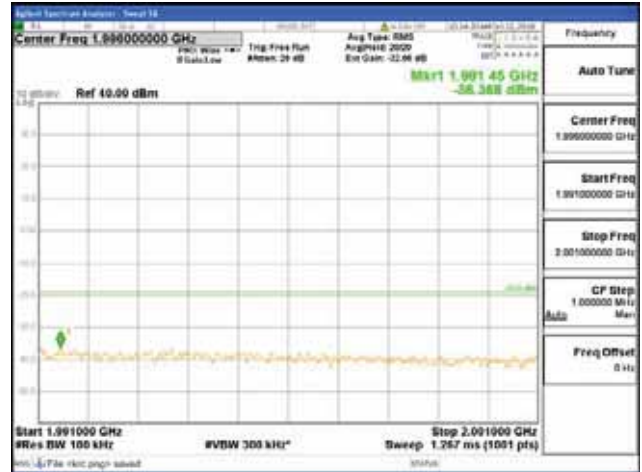
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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**Band 2, BW 5MHz + BW 5MHz, Multi carrier(Contiguous), 4TX, Top**  
 [QPSK]

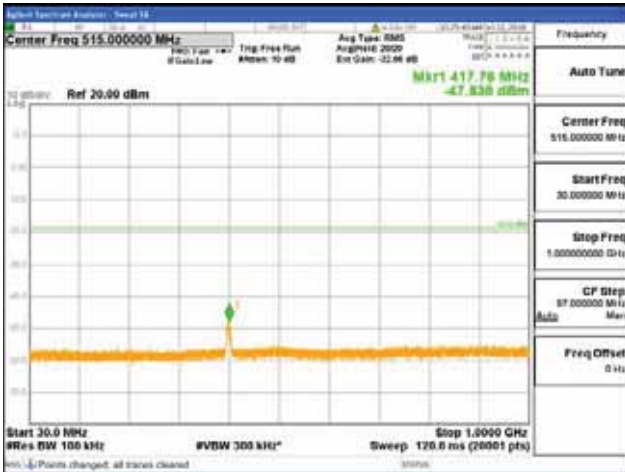
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

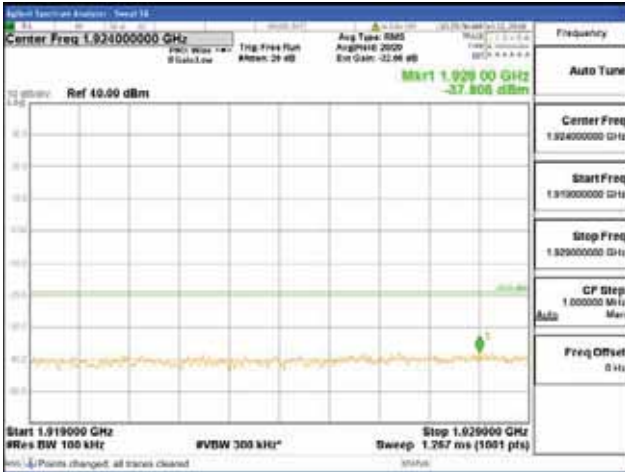




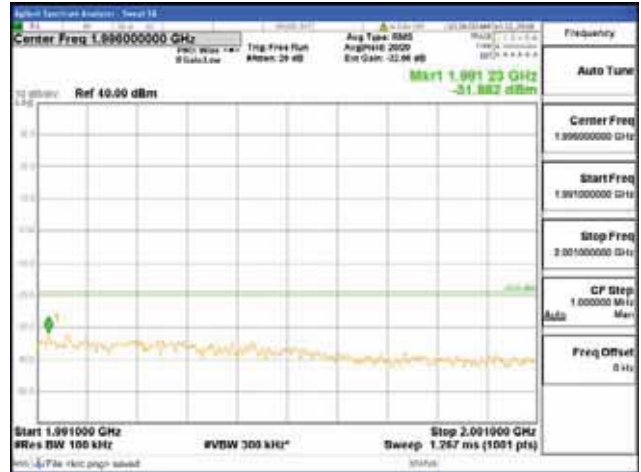
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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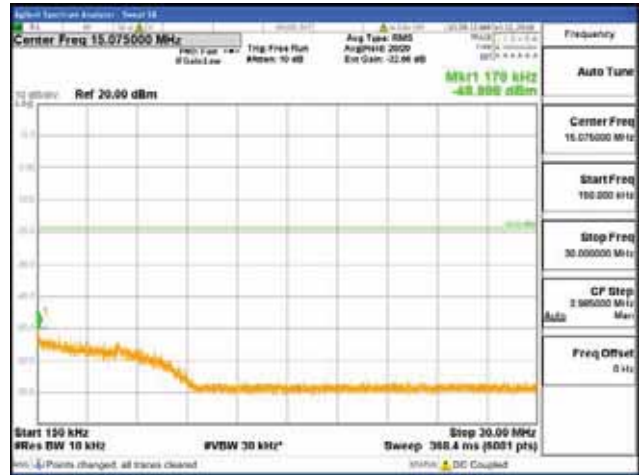
Report No.:  
 CTK-2018-03328  
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[16QAM]

9 kHz - 150 kHz



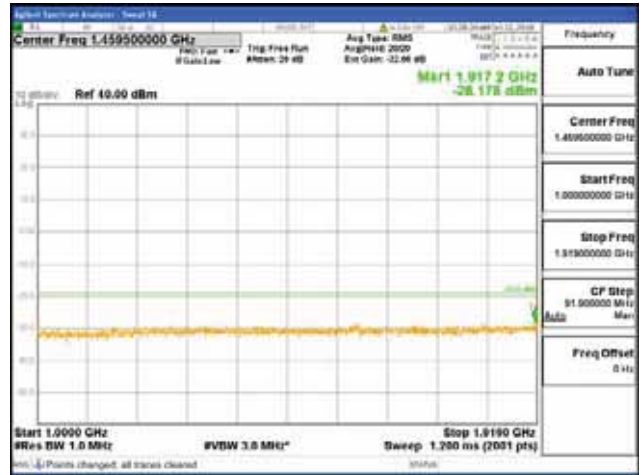
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





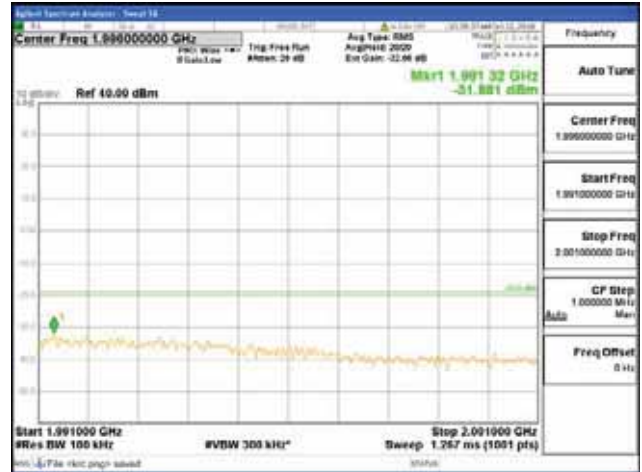
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

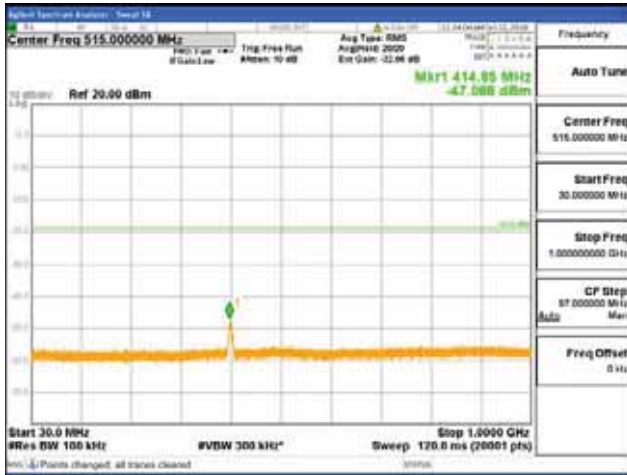
9 kHz - 150 kHz



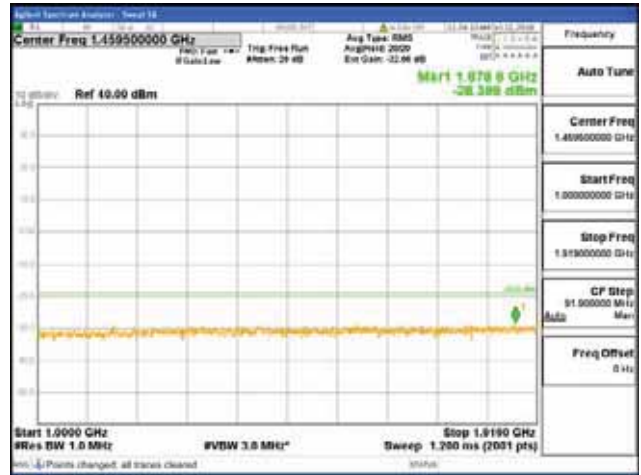
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



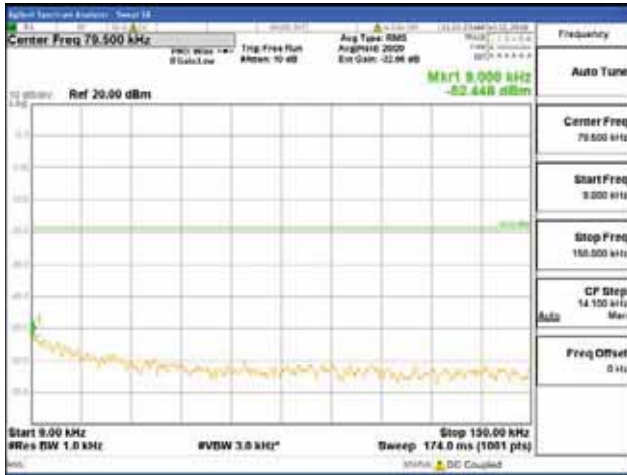


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[256QAM]

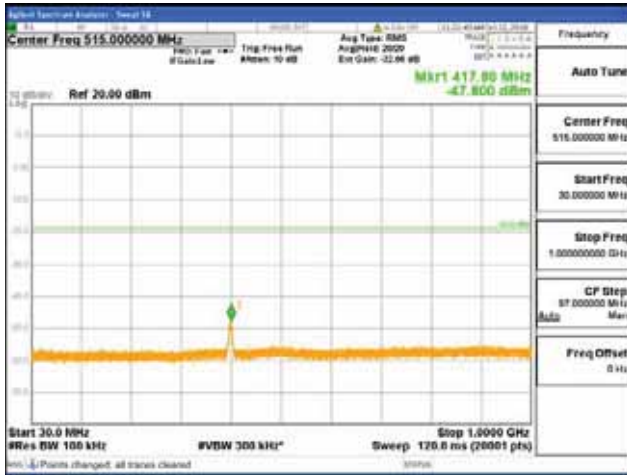
9 kHz - 150 kHz



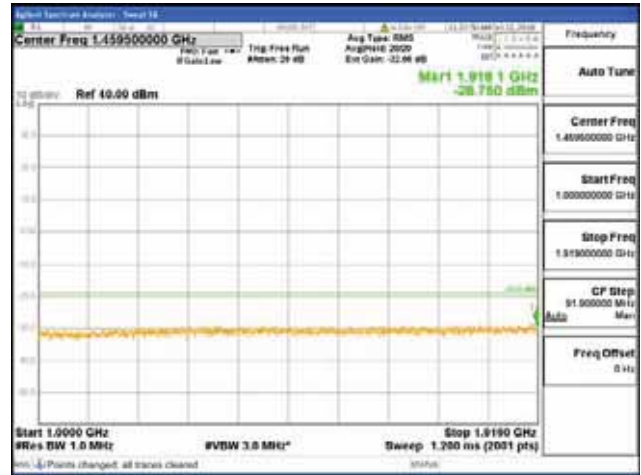
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz



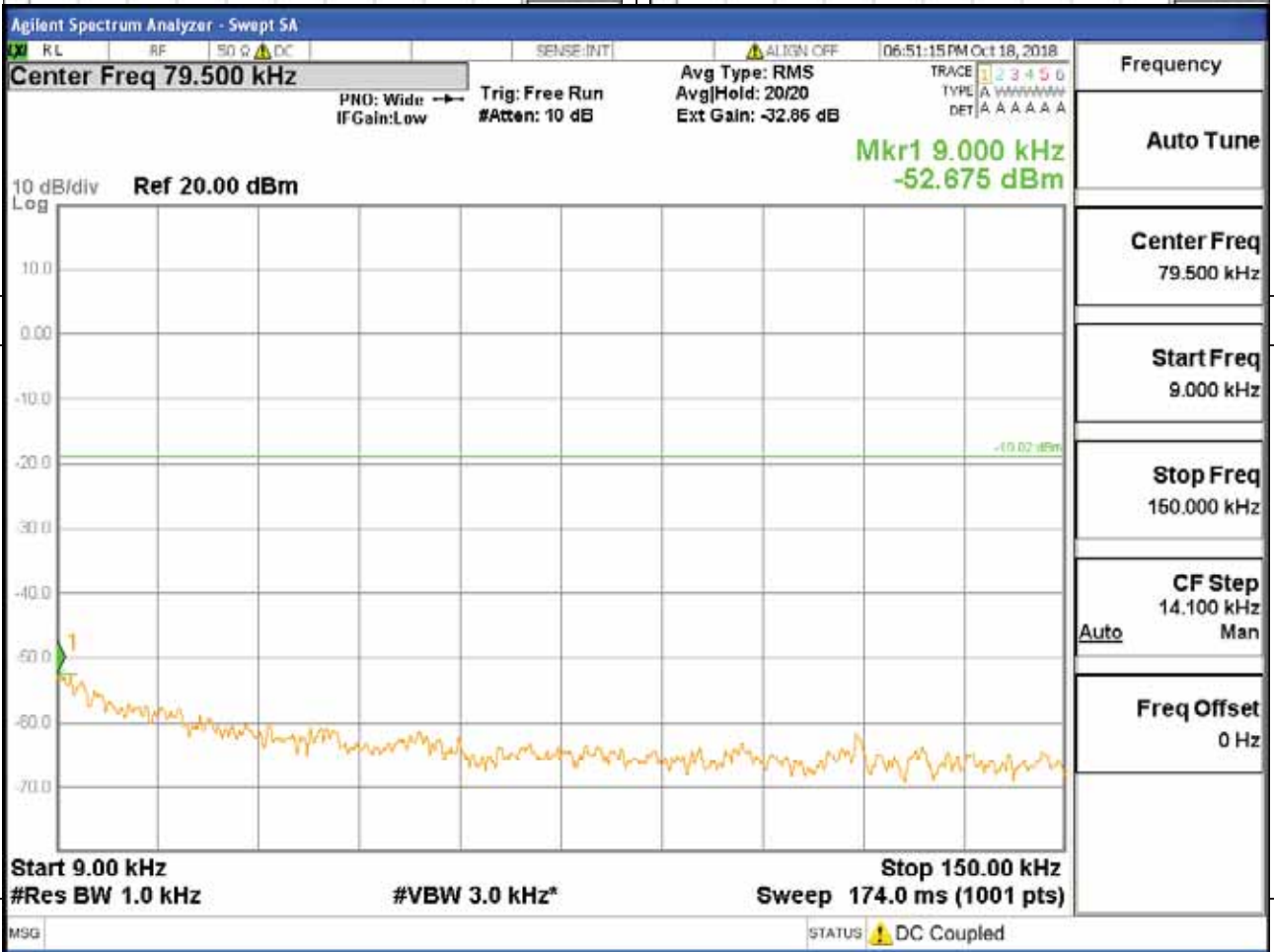
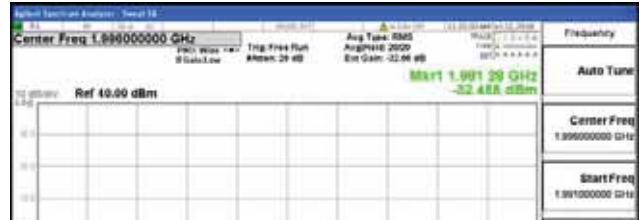
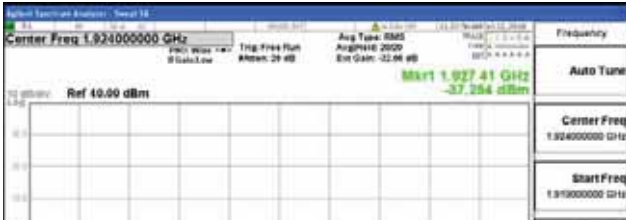


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1919 MHz - 1929 MHz

1991 MHz - 2001 MHz





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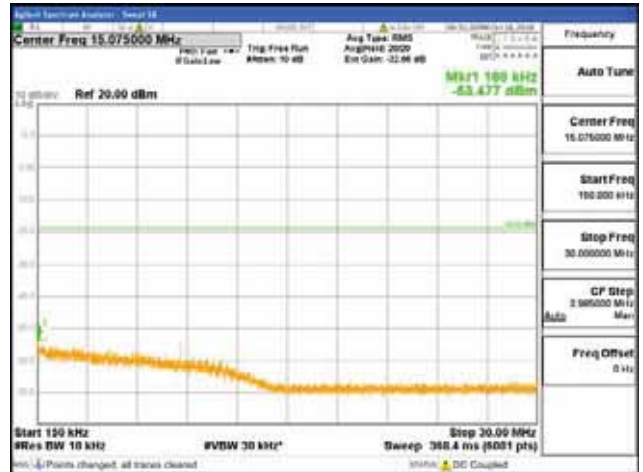
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**ANT 1**  
**Band 2, BW 5MHz + BW 10MHz, Multi carrier(Contiguous), 4TX, Bottom**  
**[QPSK]**

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





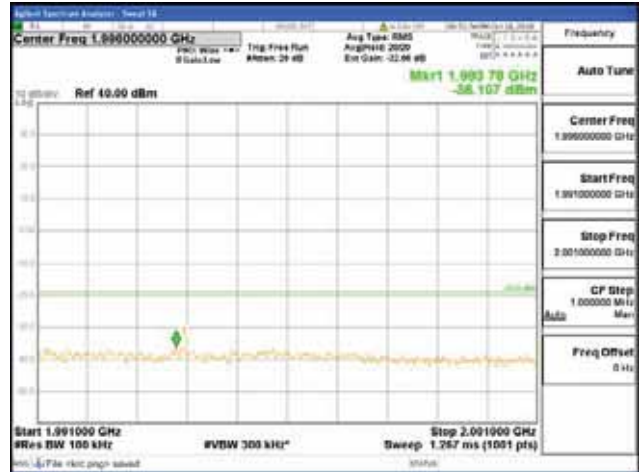
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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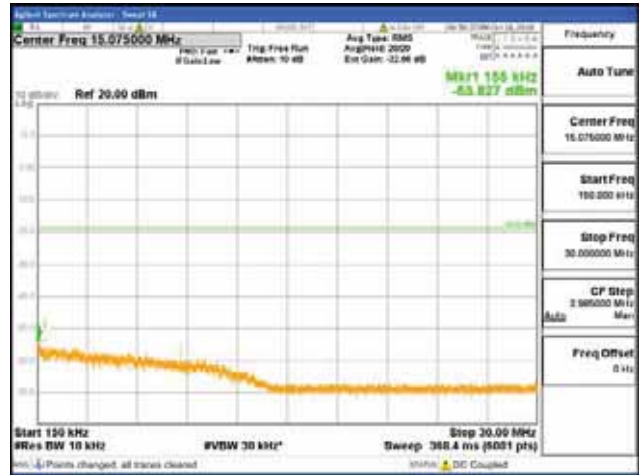
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[16QAM]

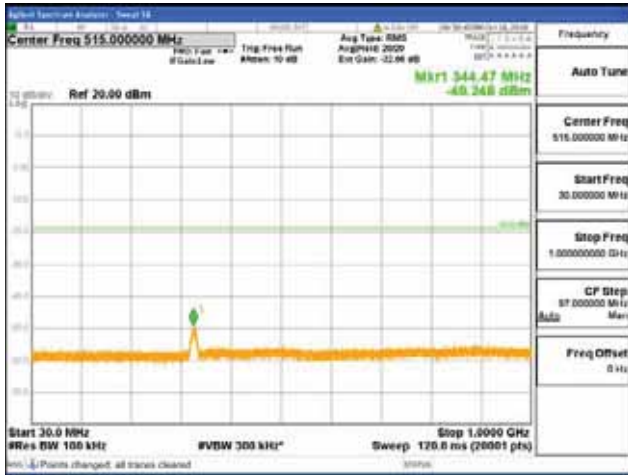
9 kHz - 150 kHz



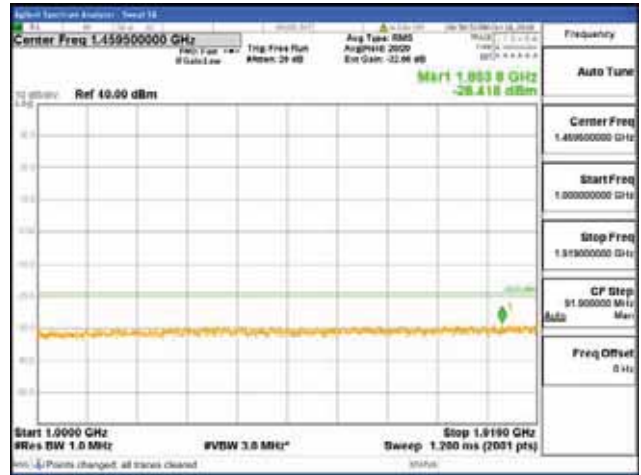
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





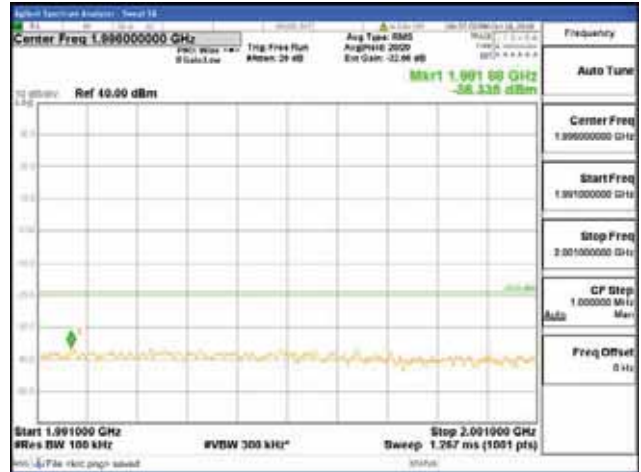
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

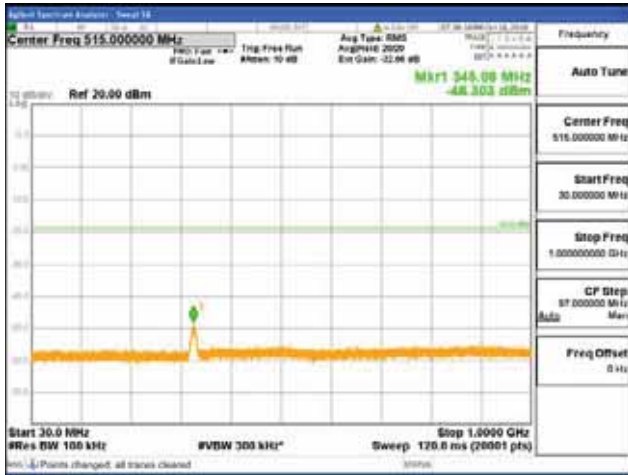
9 kHz - 150 kHz



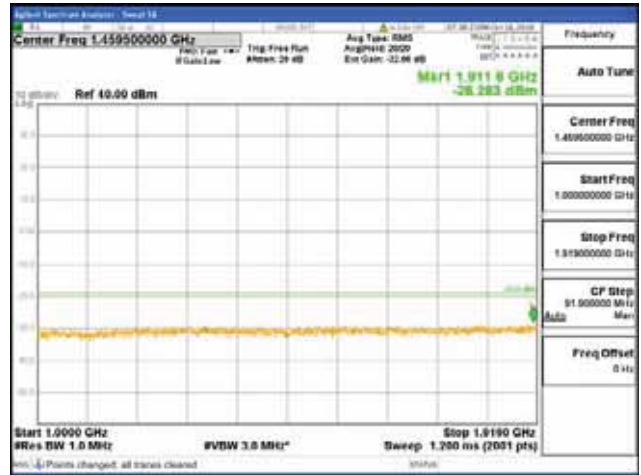
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







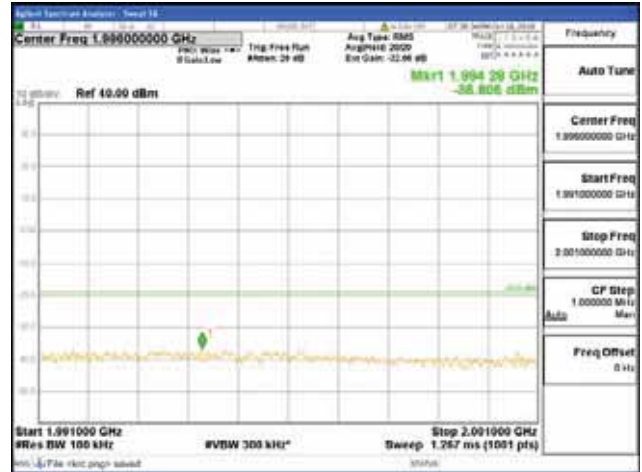
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

9 kHz - 150 kHz



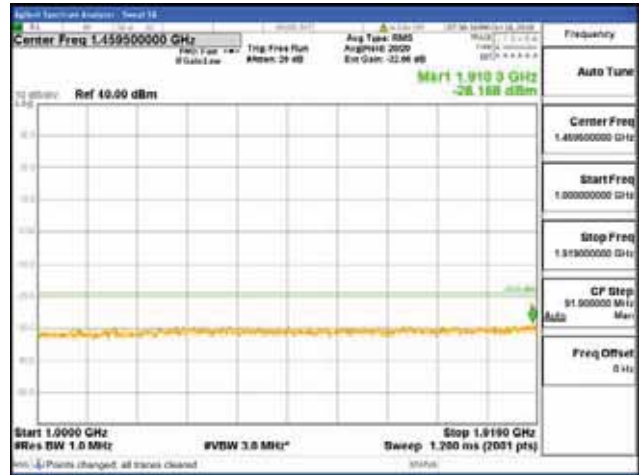
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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**Band 2, BW 5MHz + BW 10MHz, Multi carrier(Contiguous), 4TX, Top [QPSK]**

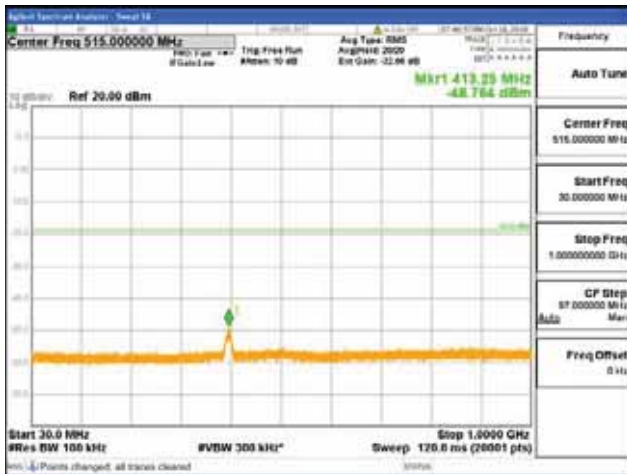
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

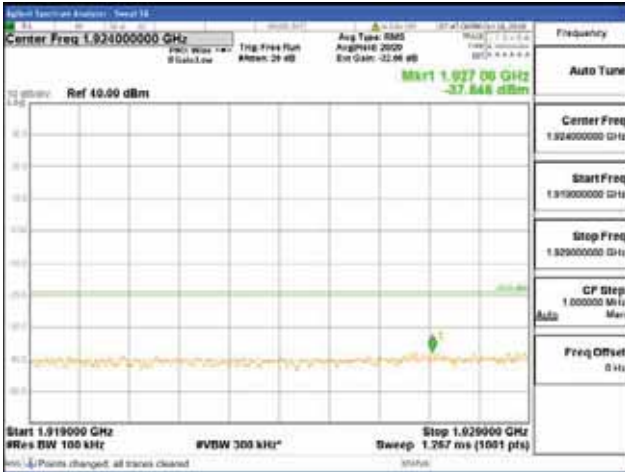




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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



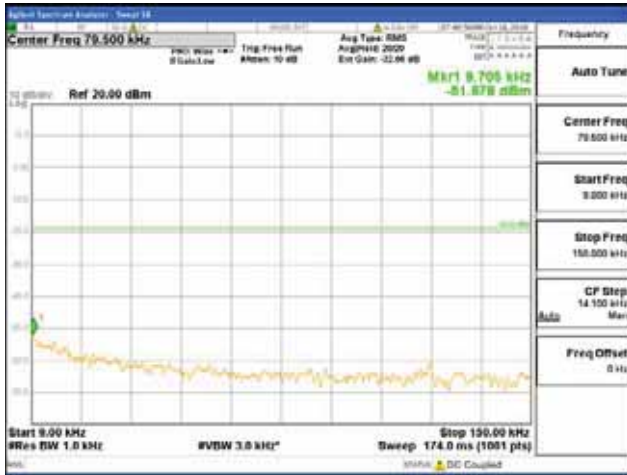


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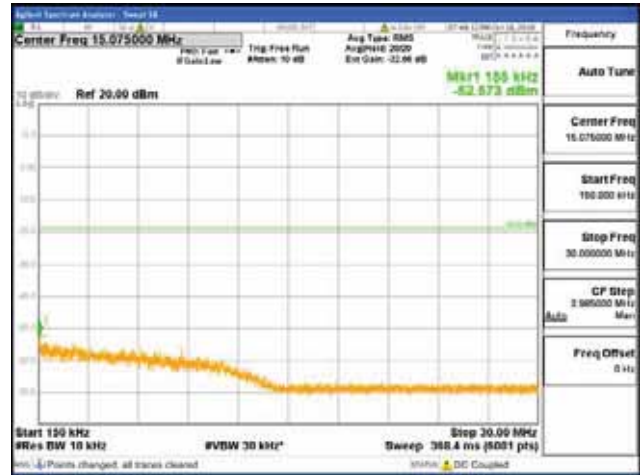
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[16QAM]

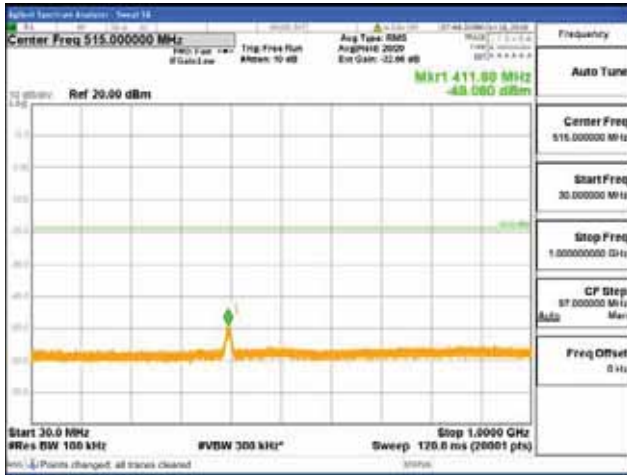
9 kHz - 150 kHz



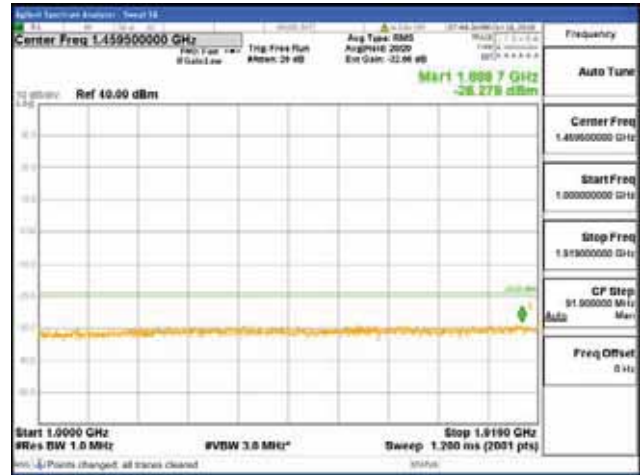
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

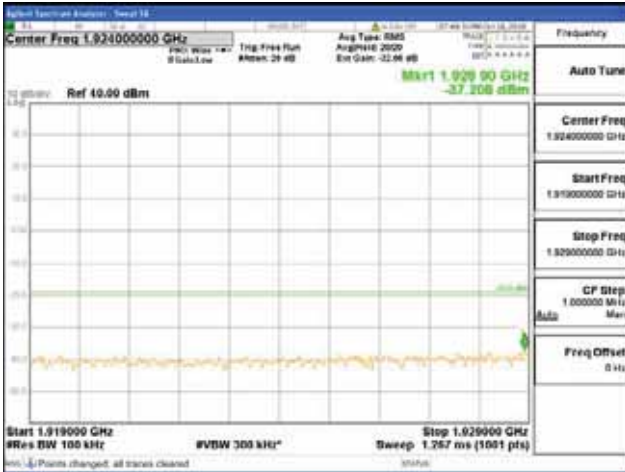




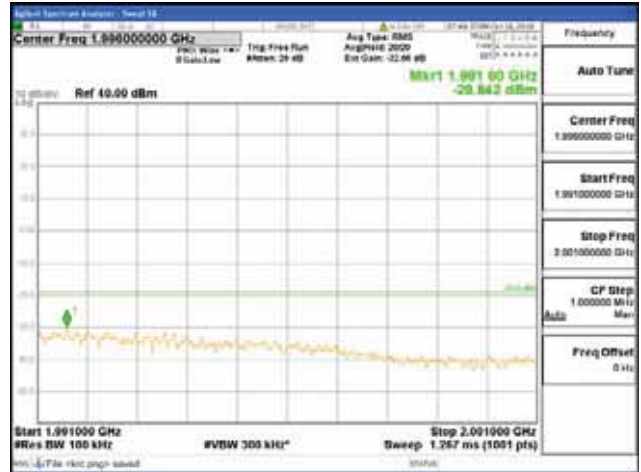
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

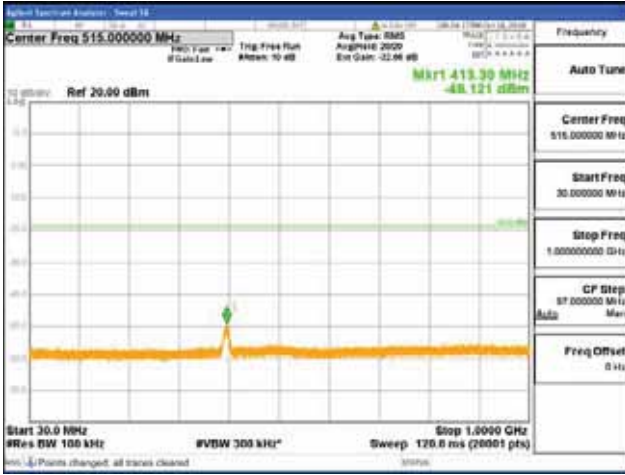
9 kHz - 150 kHz



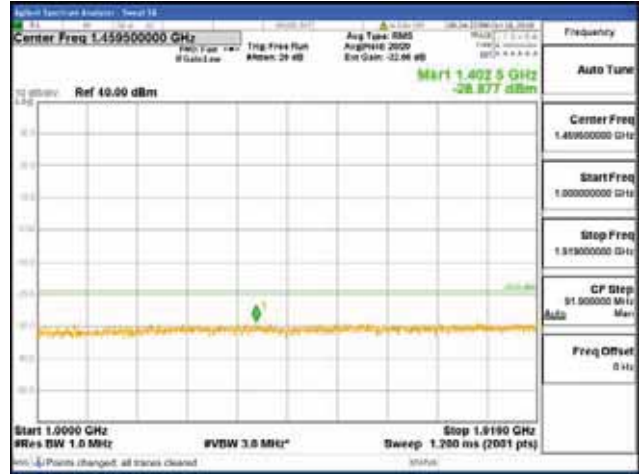
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz



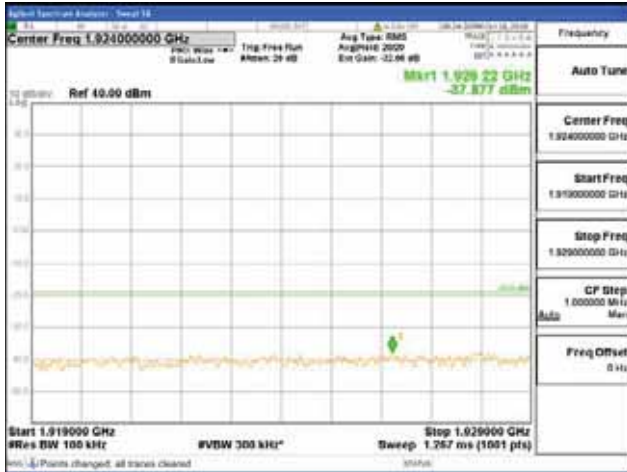




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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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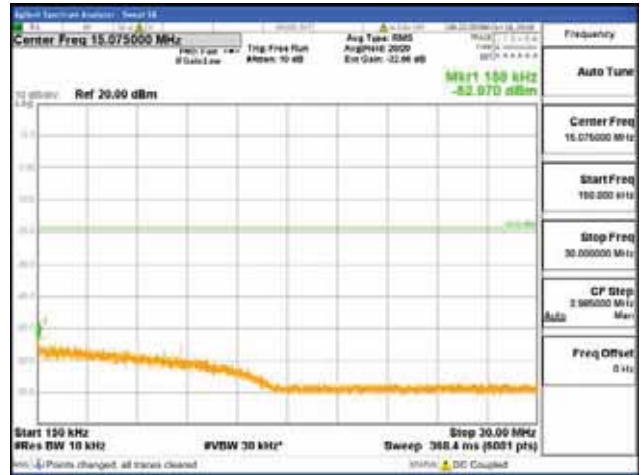
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[256QAM]

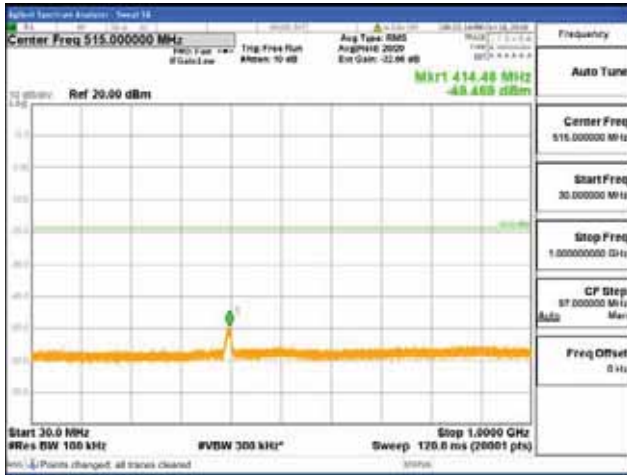
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

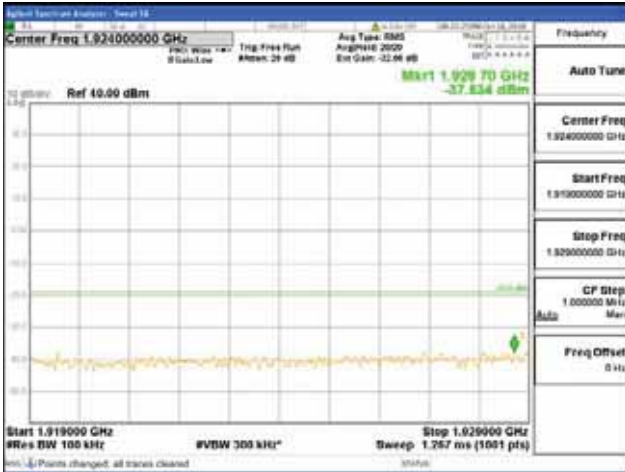




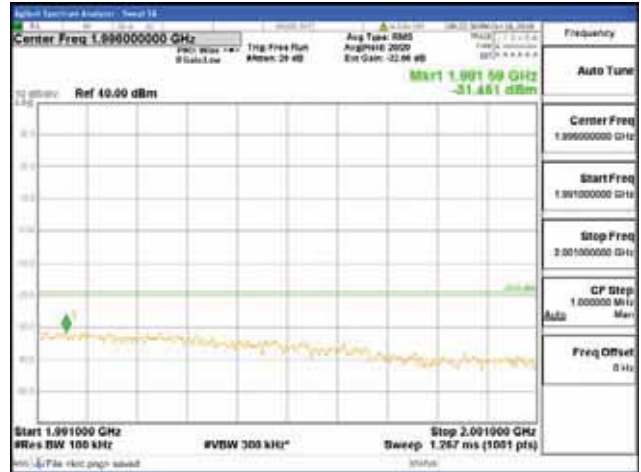
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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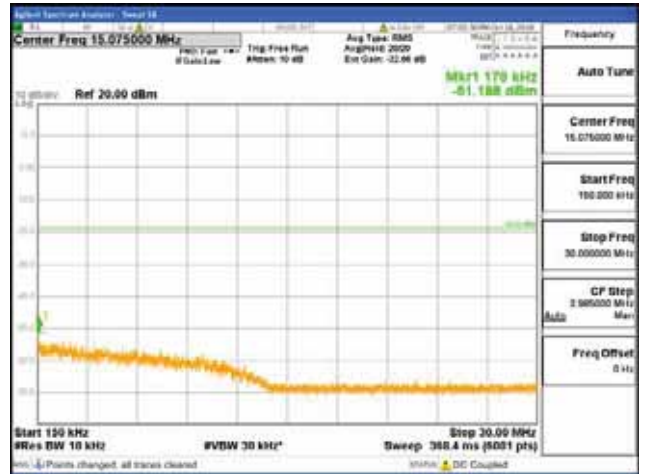
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**ANT 2**  
**Band 2, BW 5MHz + BW 10MHz, Multi carrier(Contiguous), 4TX, Bottom**  
**[QPSK]**

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

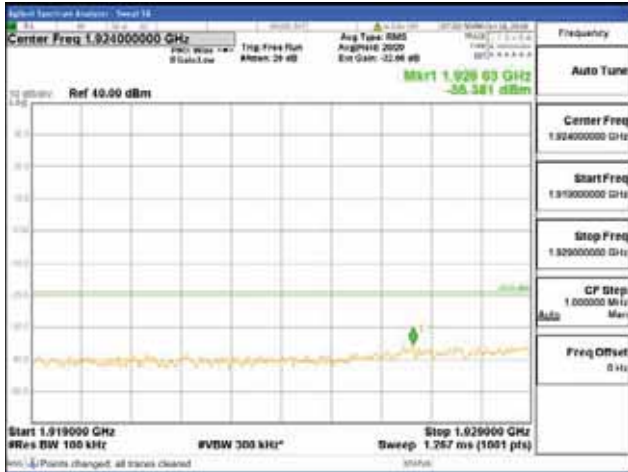




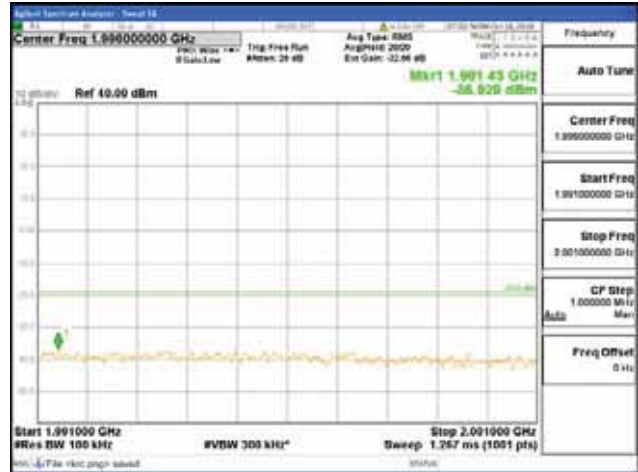
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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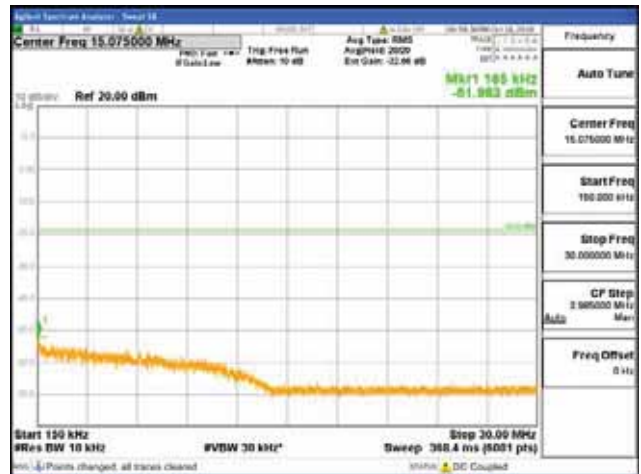
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[16QAM]

9 kHz - 150 kHz



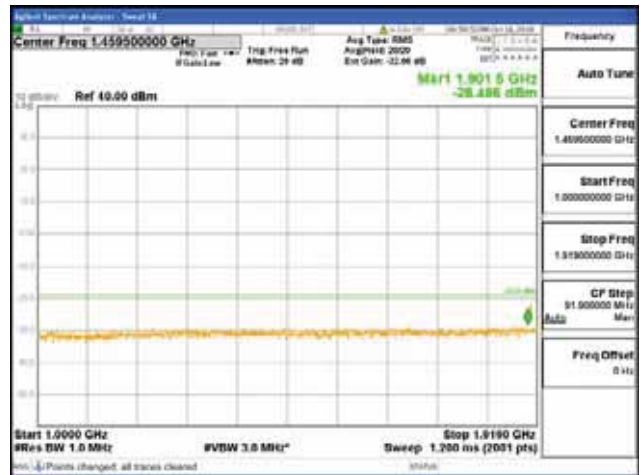
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





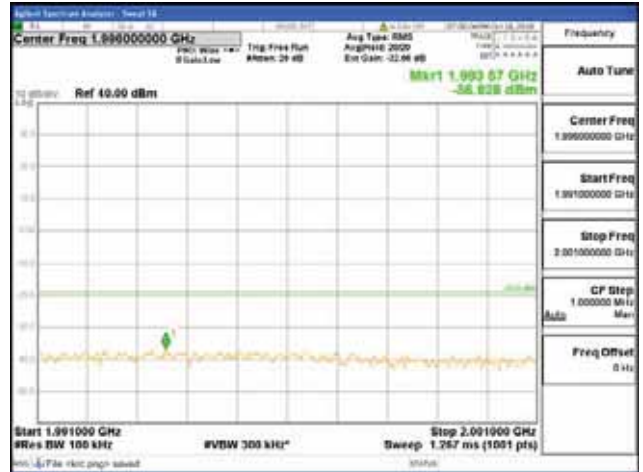
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

9 kHz - 150 kHz



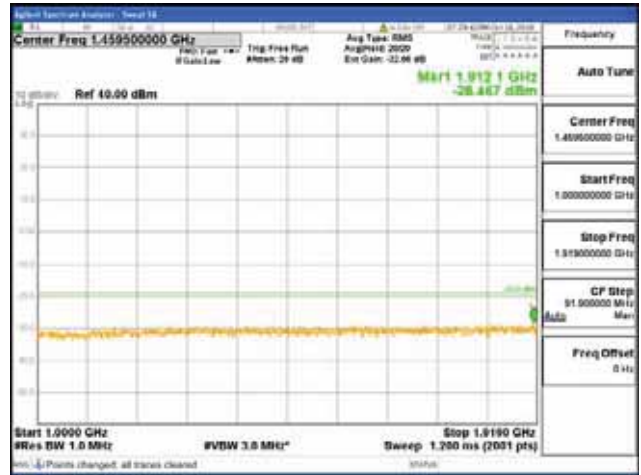
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz



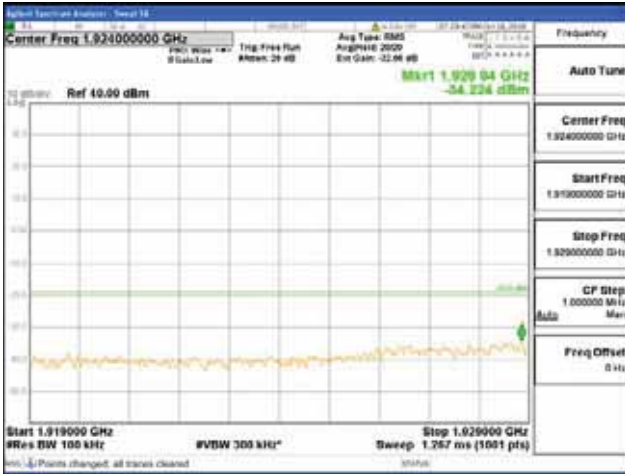




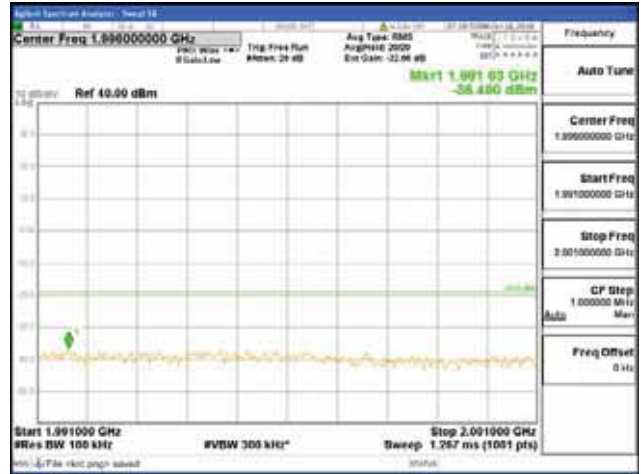
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

9 kHz - 150 kHz



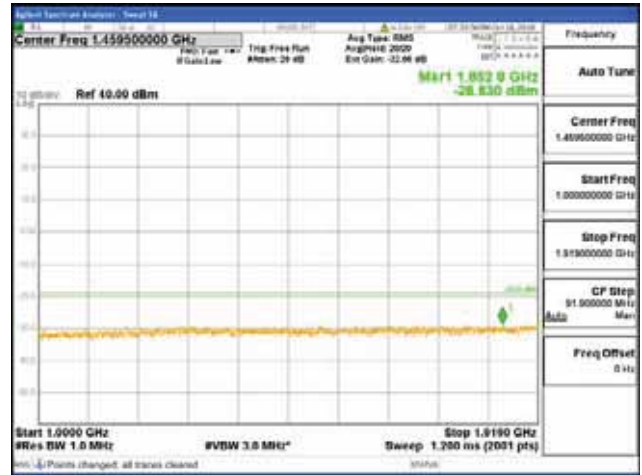
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

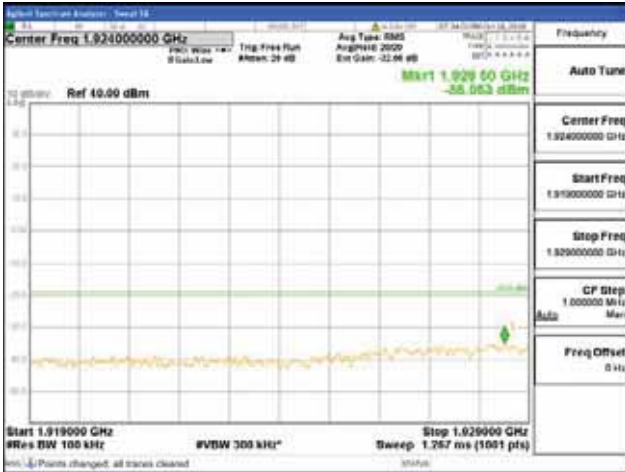




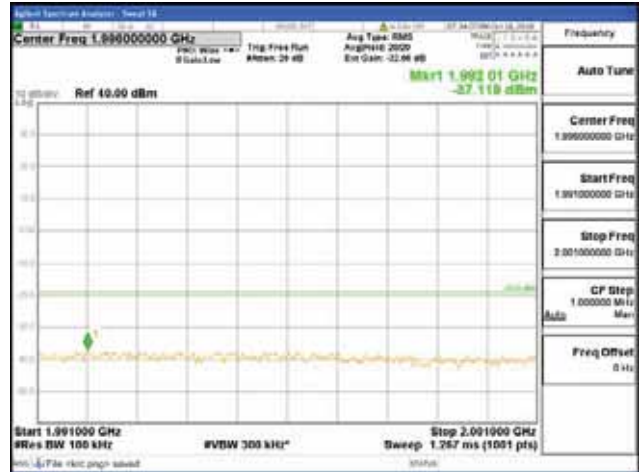
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



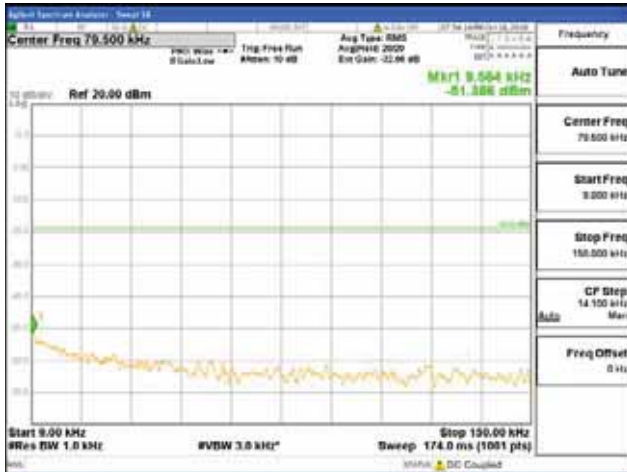


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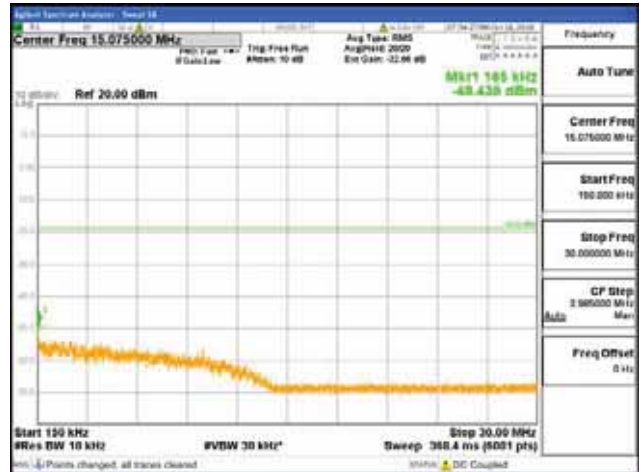
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**Band 2, BW 5MHz + BW 10MHz, Multi carrier(Contiguous), 4TX, Top [QPSK]**

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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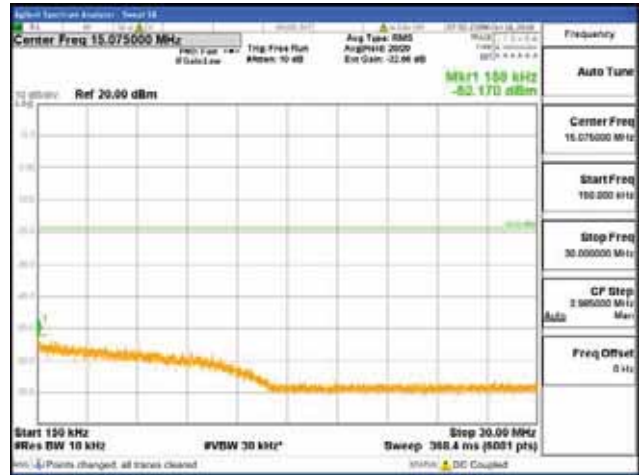
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[16QAM]

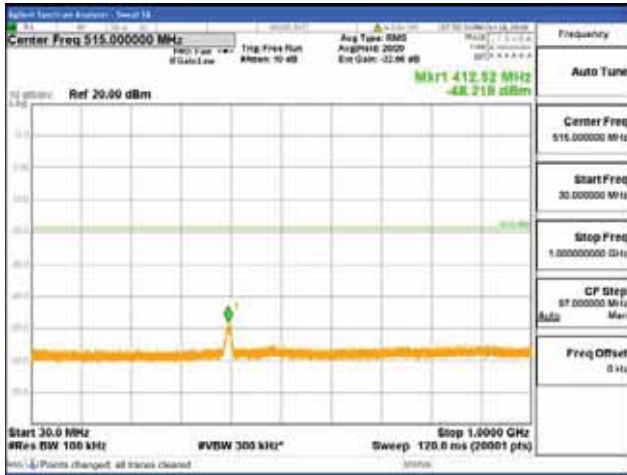
9 kHz - 150 kHz



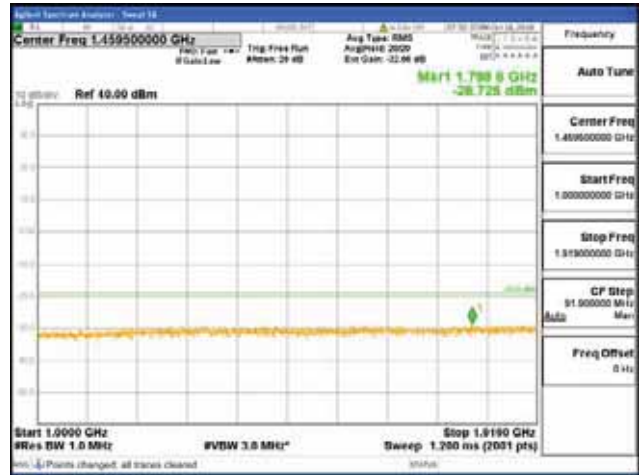
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





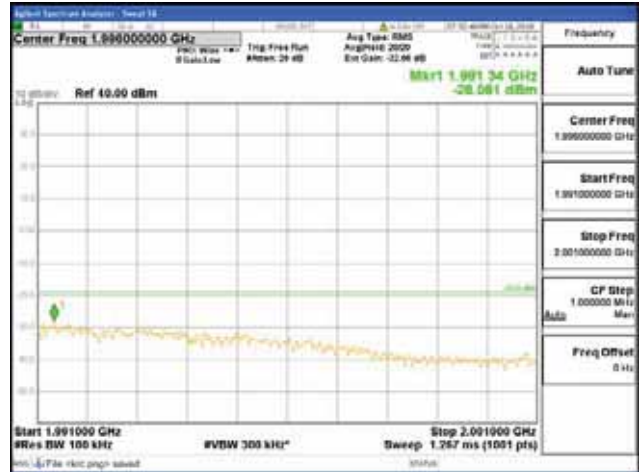
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

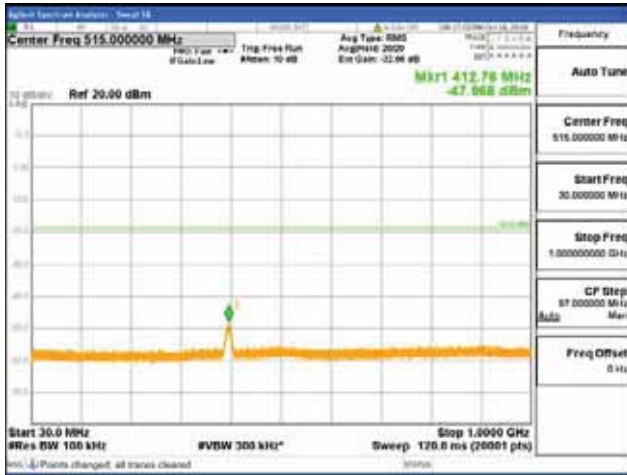
9 kHz - 150 kHz



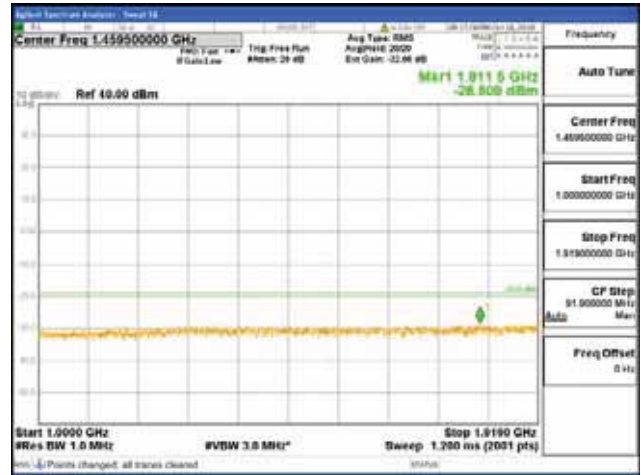
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz



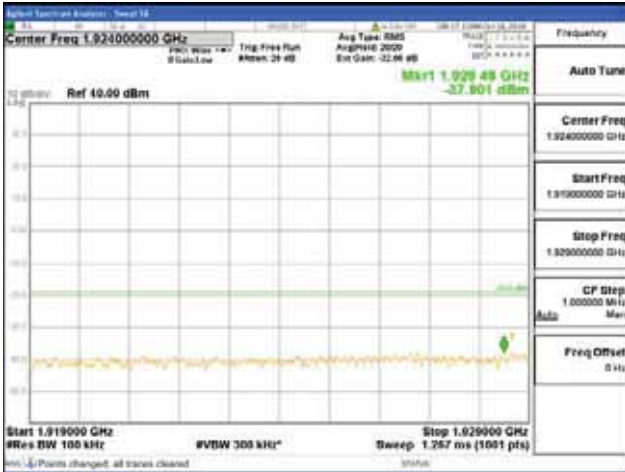




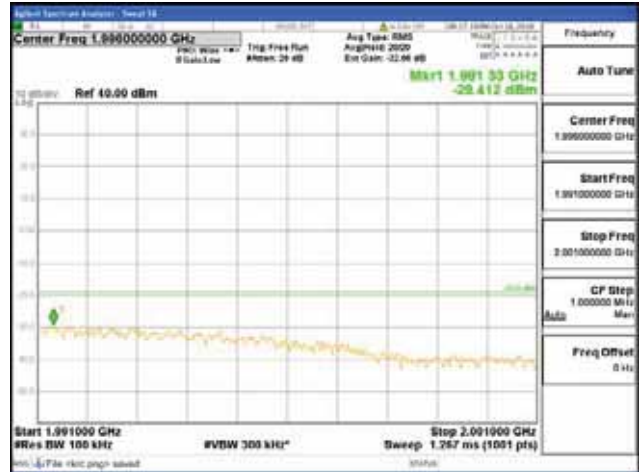
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



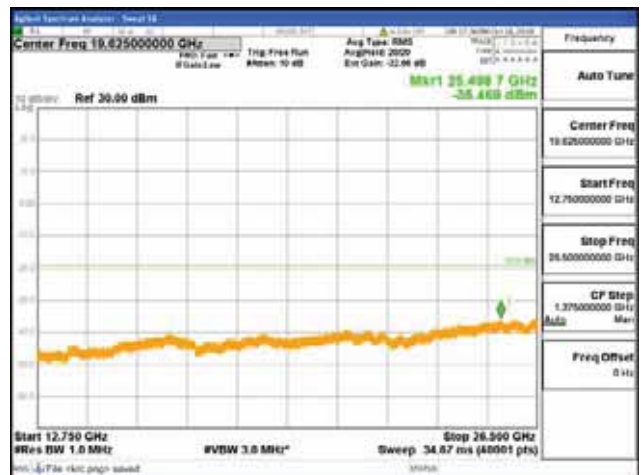
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[256QAM]

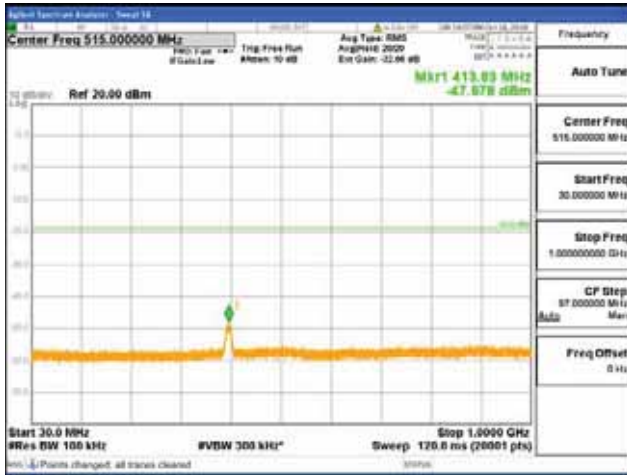
9 kHz - 150 kHz



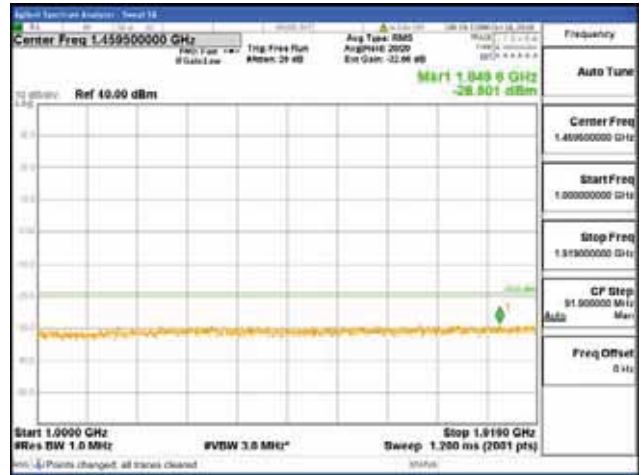
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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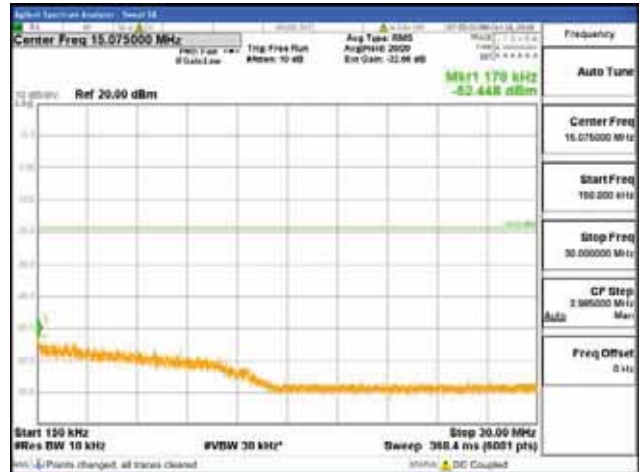
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**ANT 3**  
**Band 2, BW 5MHz + BW 10MHz, Multi carrier(Contiguous), 4TX, Bottom**  
**[QPSK]**

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





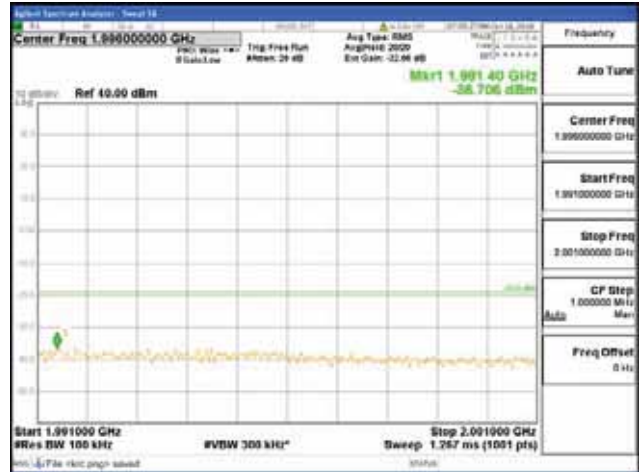
**CTK Co., Ltd.**  
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 Yongin-si, Gyeonggi-do, Korea  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[16QAM]

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





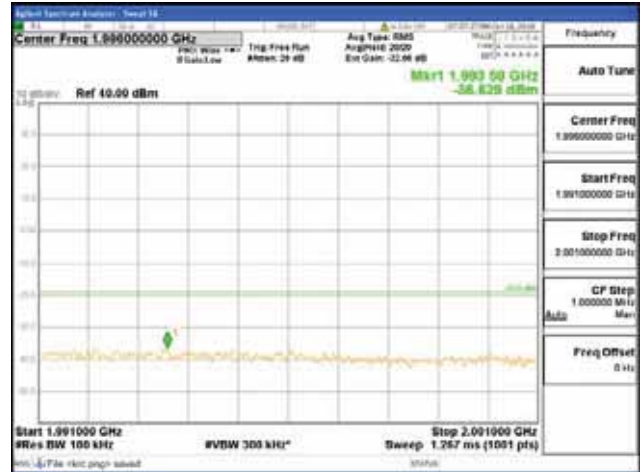
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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[64QAM]

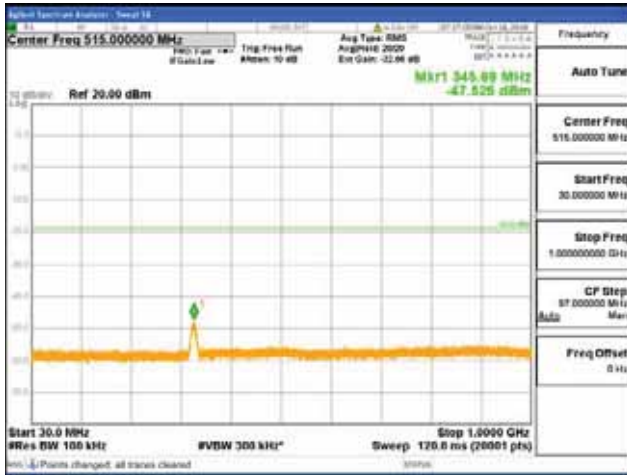
9 kHz - 150 kHz



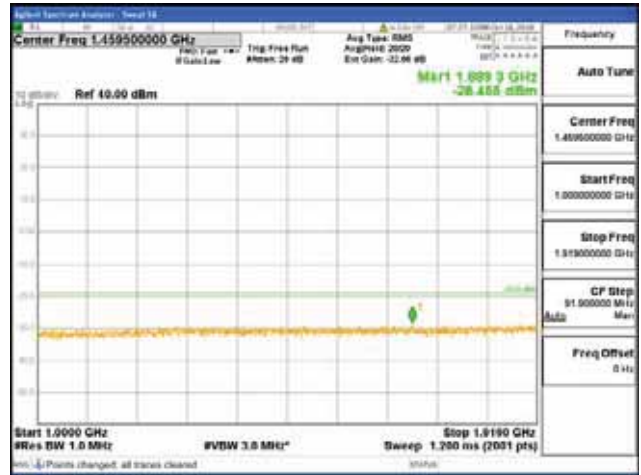
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz







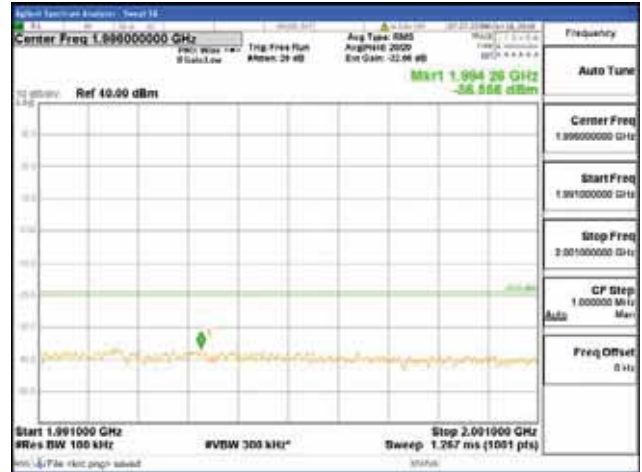
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz



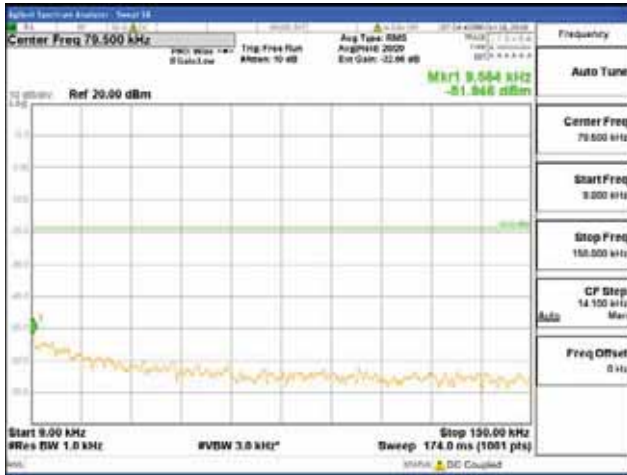


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[256QAM]

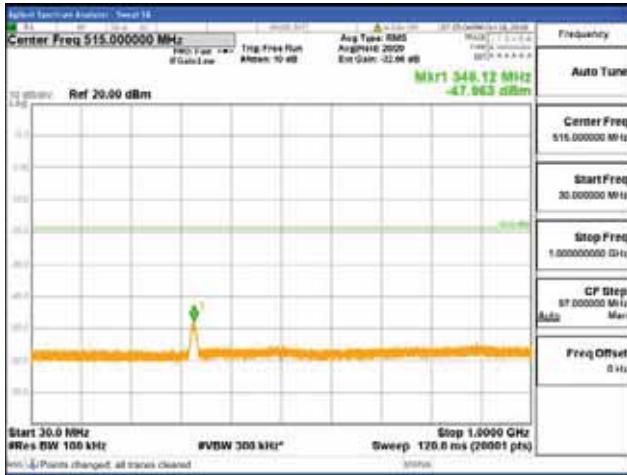
9 kHz - 150 kHz



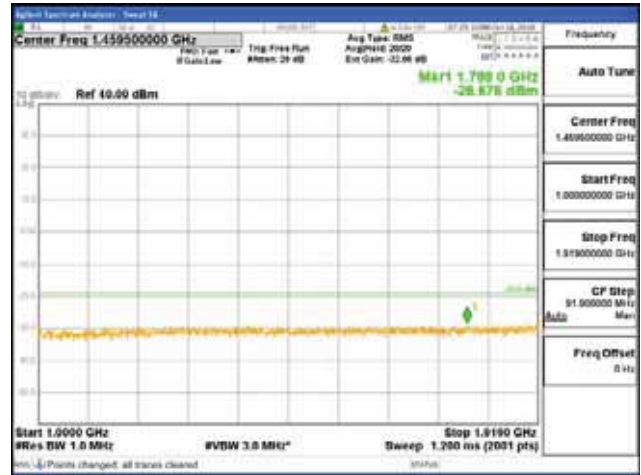
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz





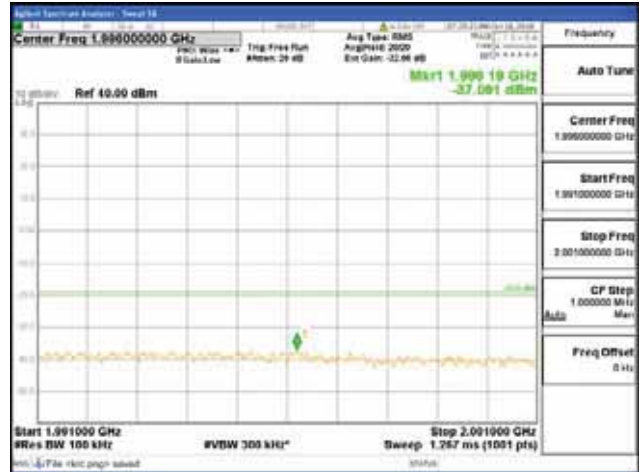
**CTK Co., Ltd.**  
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1919 MHz - 1929 MHz



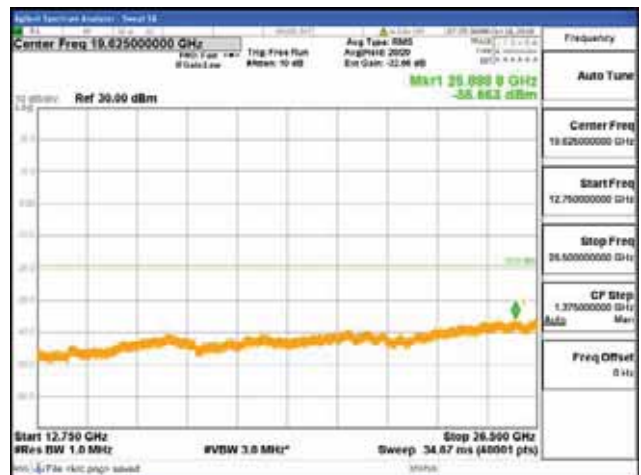
1991 MHz - 2001 MHz



2001 MHz - 12.75 GHz



12.75 GHz - 26.5 GHz





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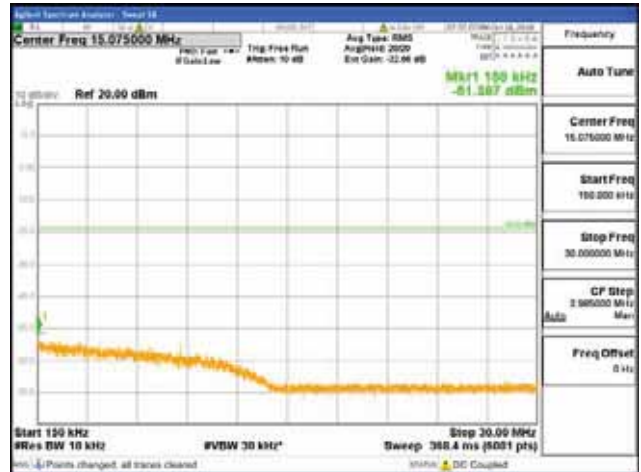
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**Band 2, BW 5MHz + BW 10MHz, Multi carrier(Contiguous), 4TX, Top [QPSK]**

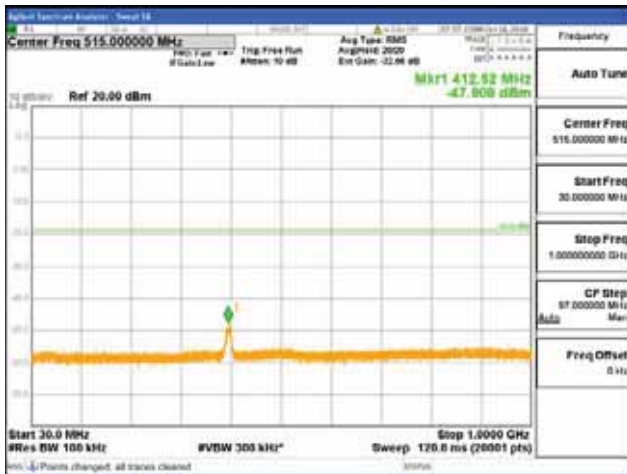
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 1919 MHz

