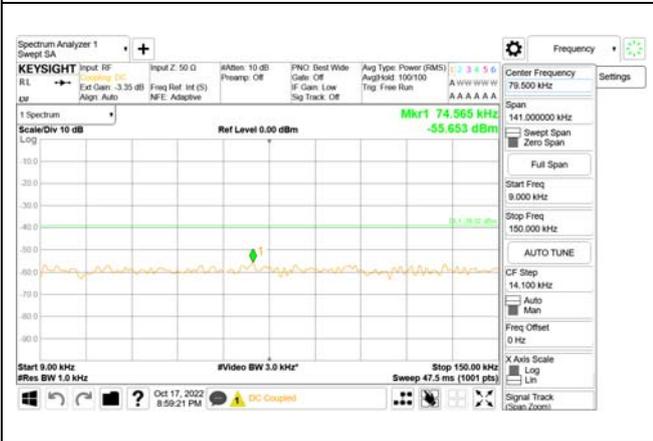




**5G NR, Single carrier 20 MHz, Low Channel, 256QAM
ANT1**

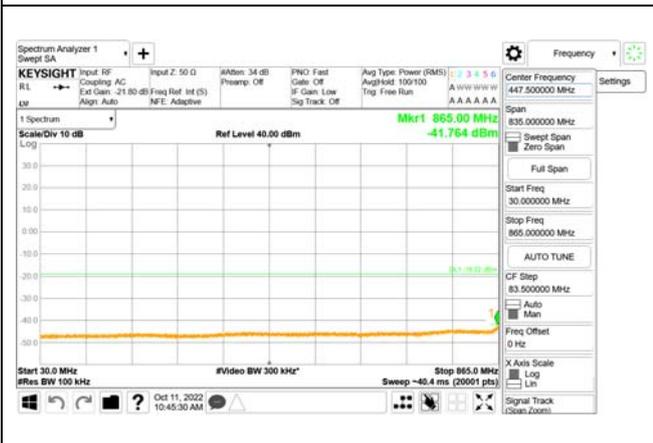
9 kHz - 150 kHz



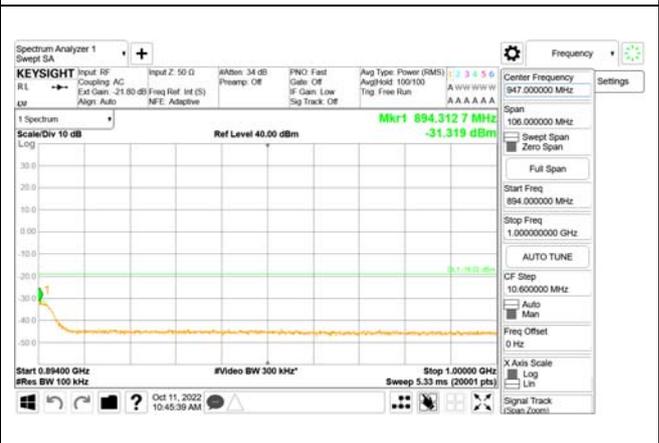
150 kHz - 30 MHz



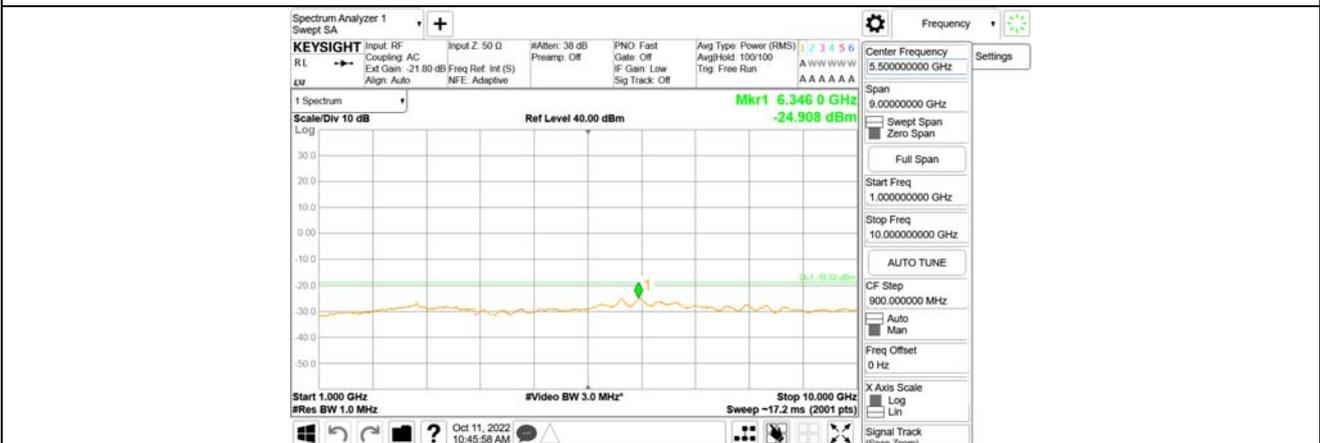
30 MHz - 865 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





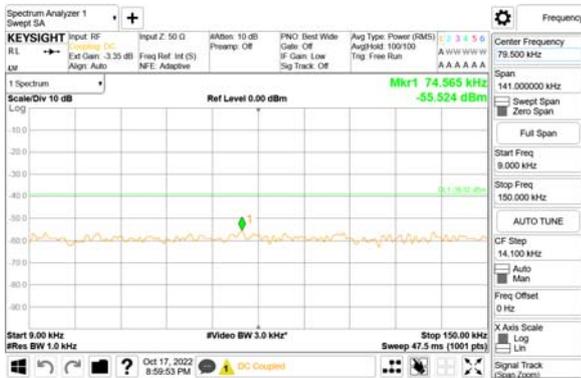
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Gyeonggi-do, 449-100, Korea
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



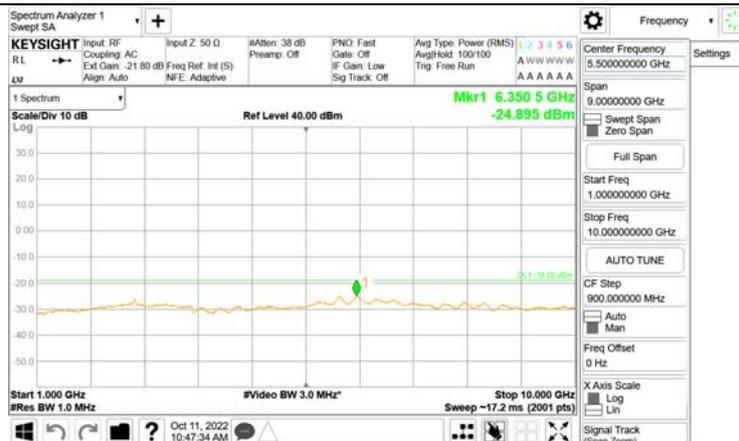
30 MHz - 865 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





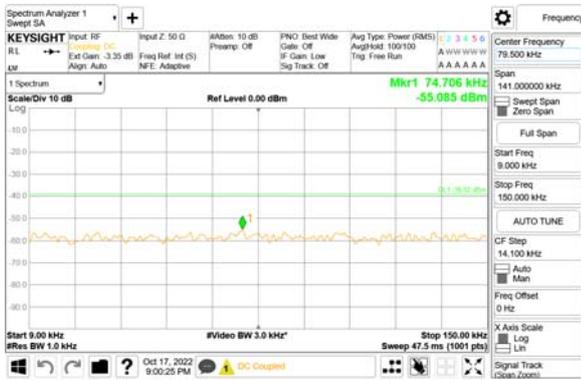
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ANT3

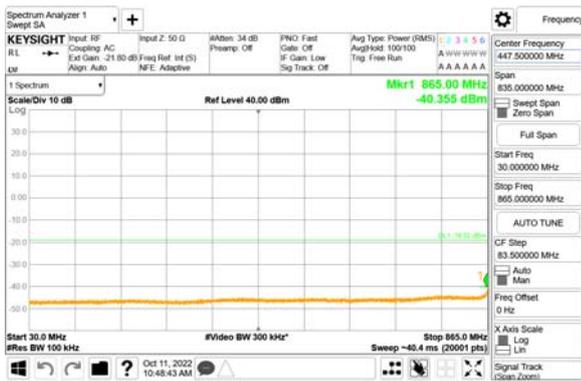
9 kHz - 150 kHz



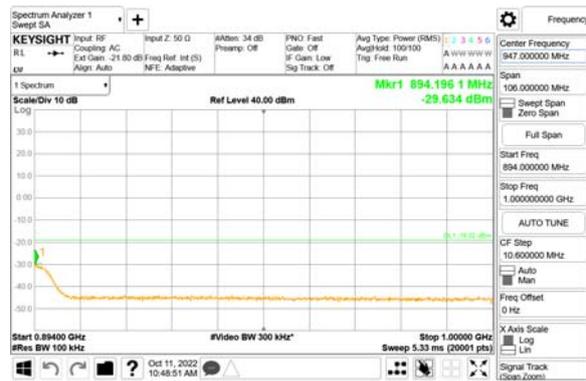
150 kHz - 30 MHz



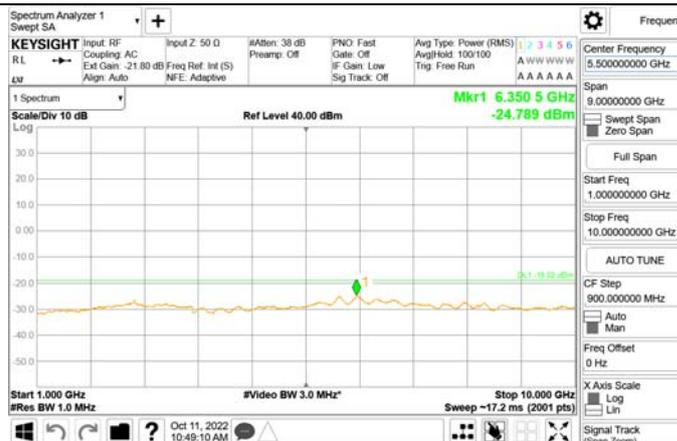
30 MHz - 865 MHz



894 MHz - 1 GHz

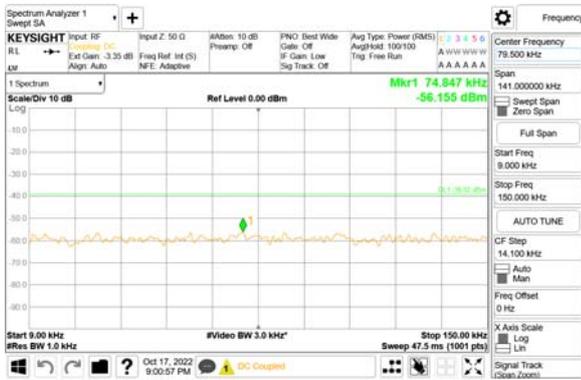


1 GHz - 10 GHz



ANT4

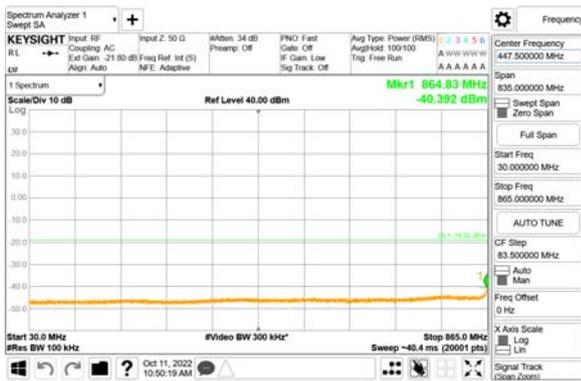
9 kHz - 150 kHz



150 kHz - 30 MHz



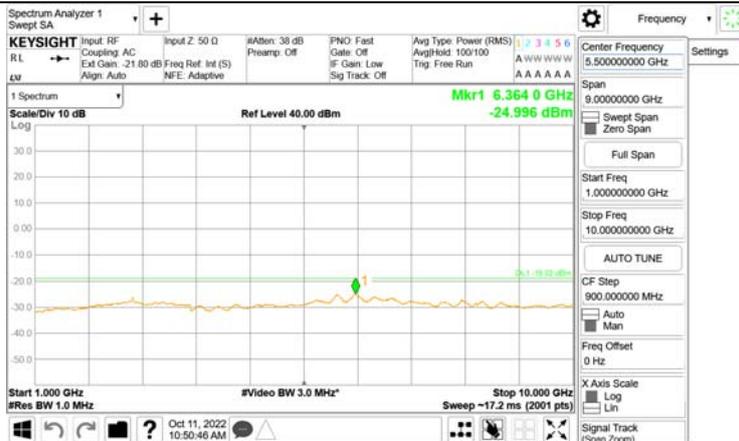
30 MHz - 865 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





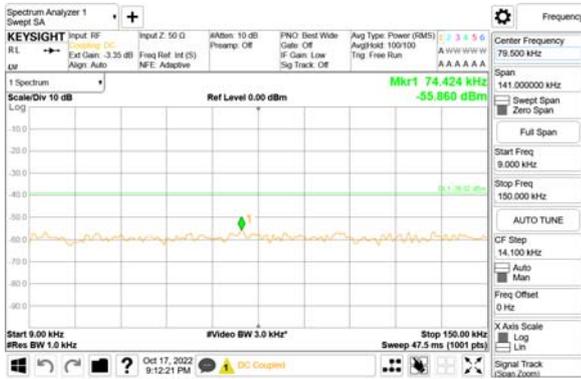
CTK Co., Ltd.

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5G NR, Single carrier 20 MHz, Middle Channel, 256QAM ANT1

9 kHz - 150 kHz



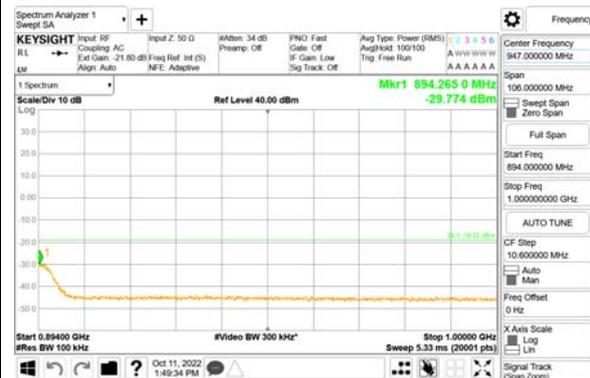
150 kHz - 30 MHz



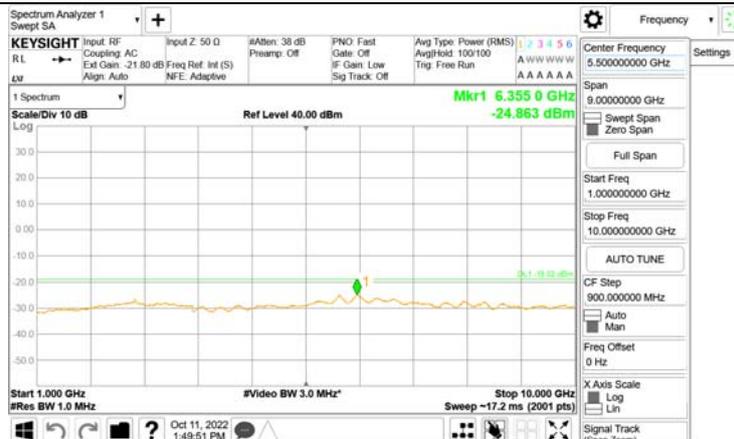
30 MHz - 869 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





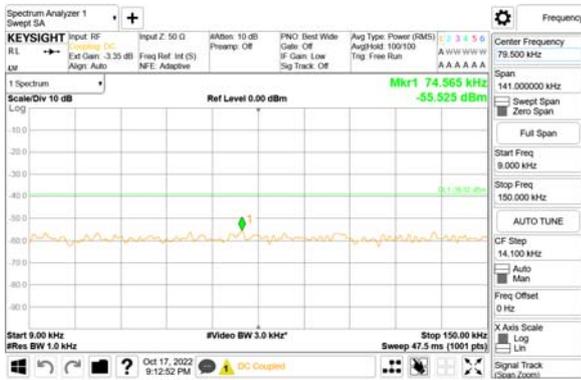
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



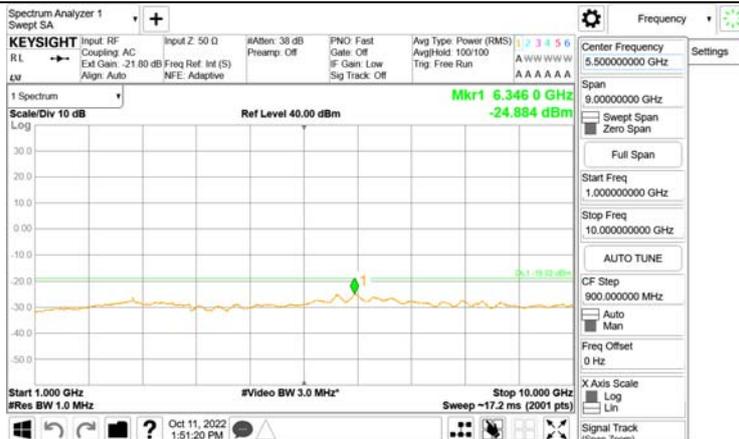
30 MHz - 869 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





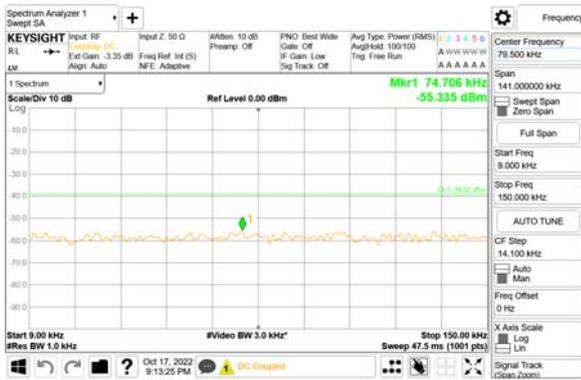
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ANT3

9 kHz - 150 kHz



150 kHz - 30 MHz



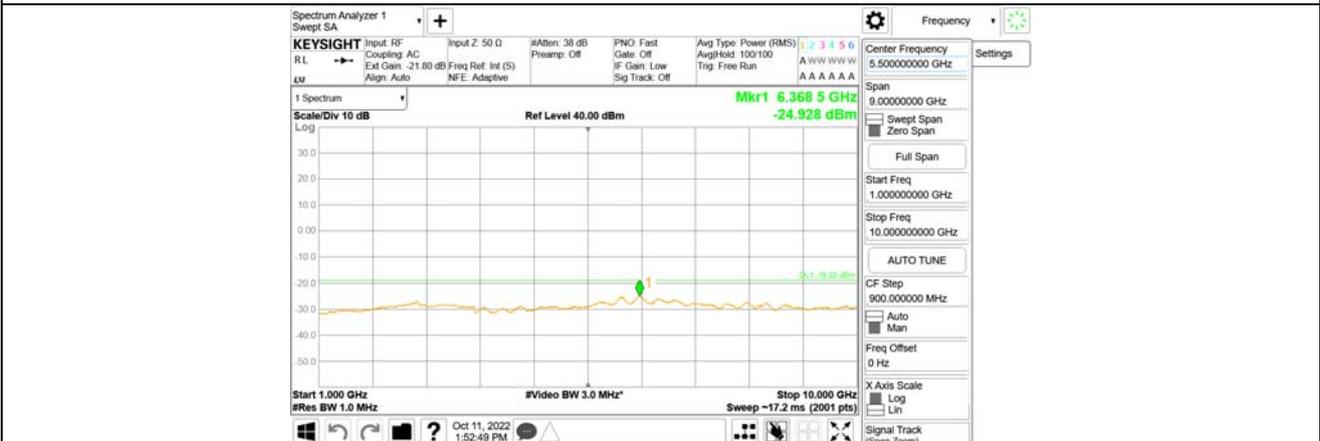
30 MHz - 869 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





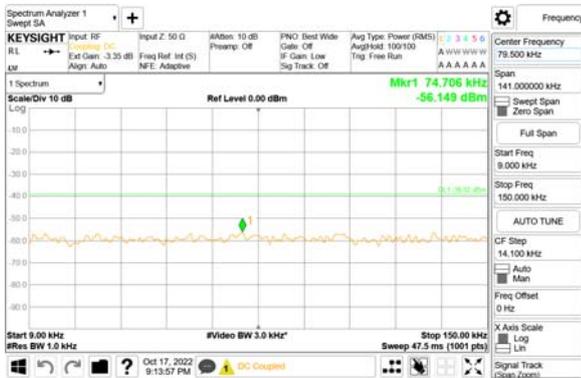
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ANT4

9 kHz - 150 kHz



150 kHz - 30 MHz



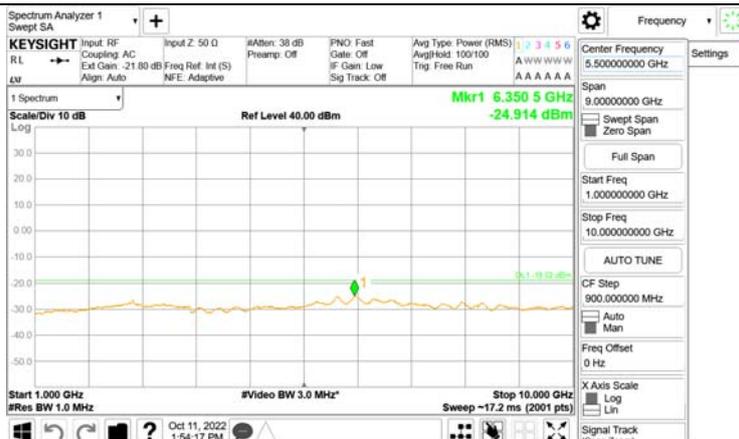
30 MHz - 869 MHz



894 MHz - 1 GHz



1 GHz - 10 GHz





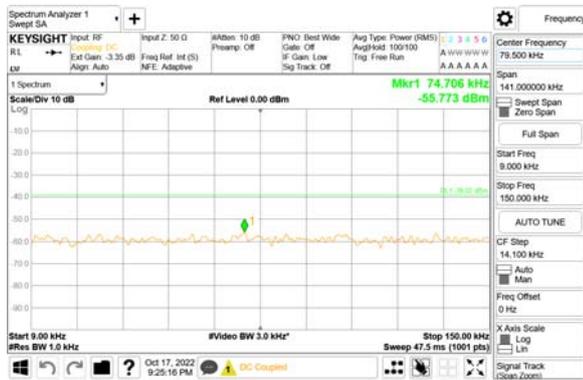
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5G NR, Single carrier 20 MHz, High Channel, 256QAM ANT1

9 kHz - 150 kHz



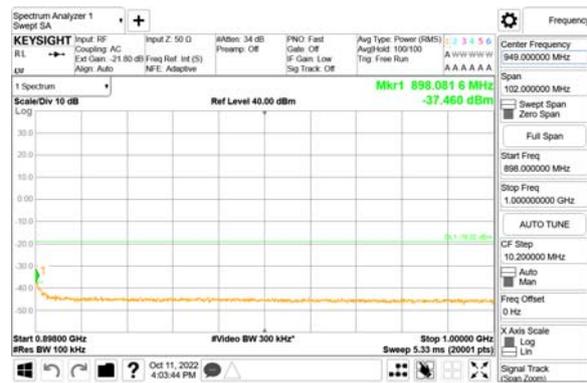
150 kHz - 30 MHz



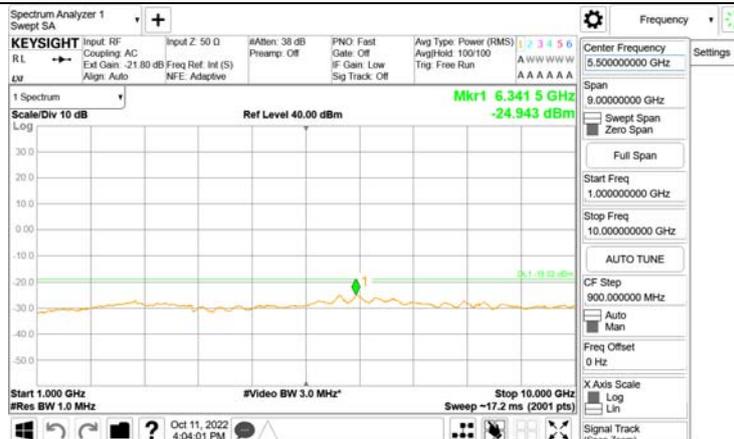
30 MHz - 869 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





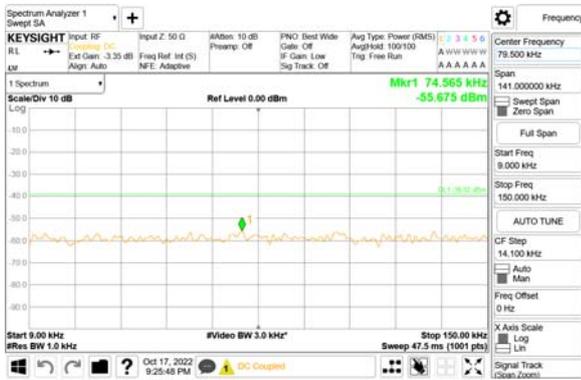
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



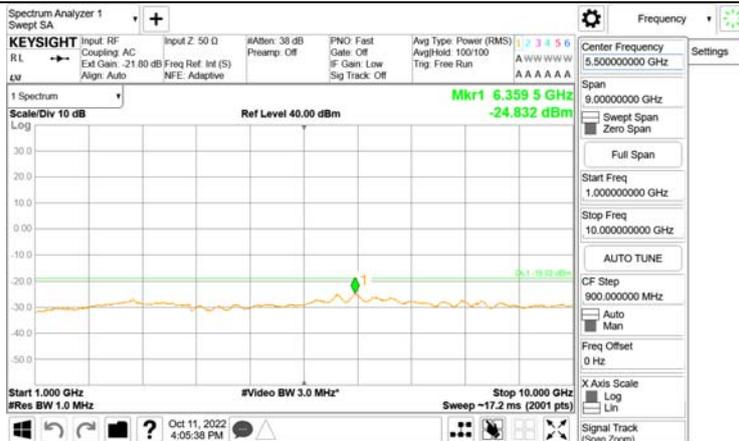
30 MHz - 869 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





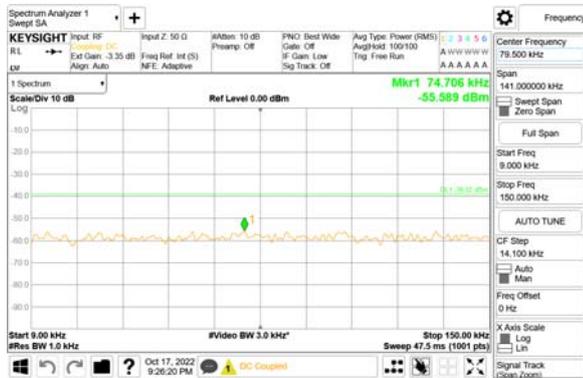
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ANT3

9 kHz - 150 kHz



150 kHz - 30 MHz



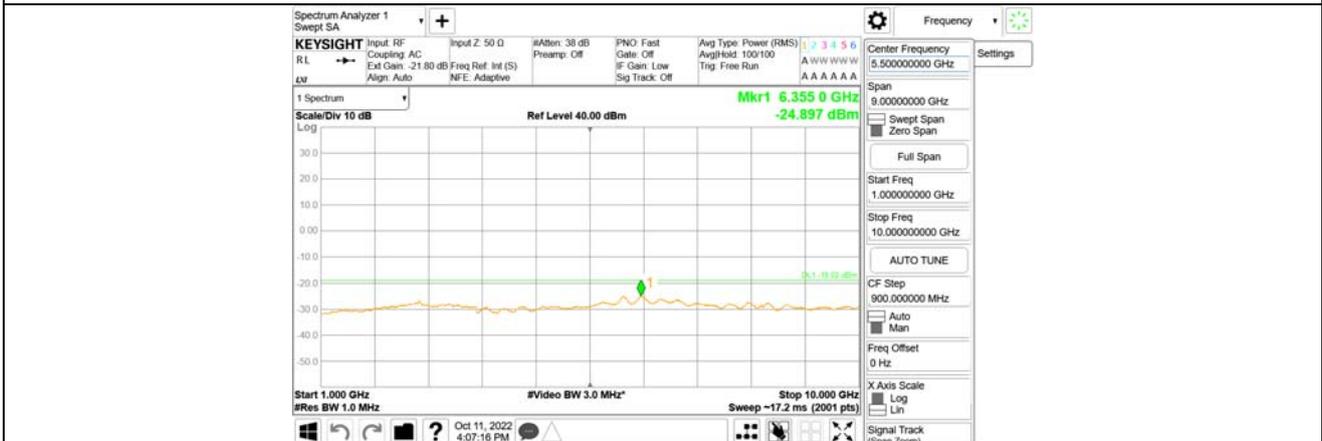
30 MHz - 869 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





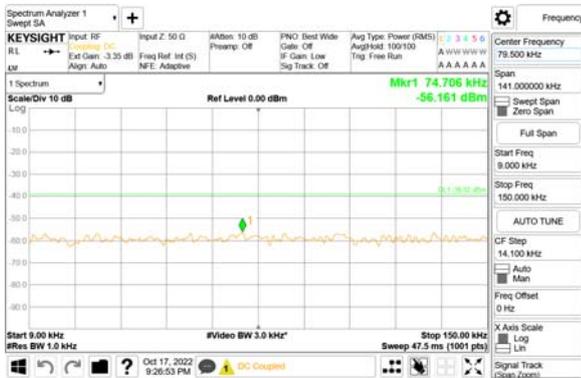
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ANT4

9 kHz - 150 kHz



150 kHz - 30 MHz



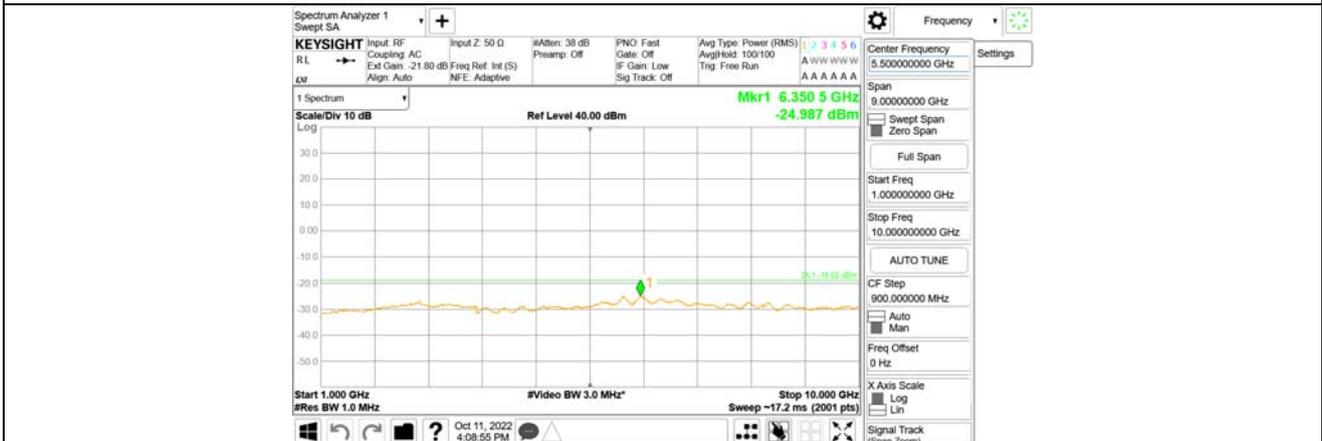
30 MHz - 869 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





CTK Co., Ltd.

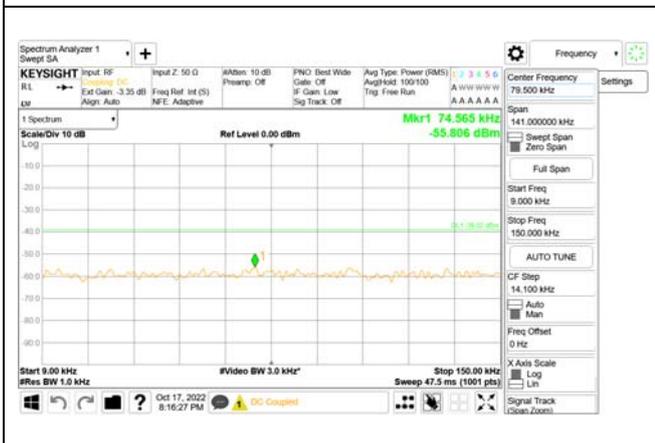
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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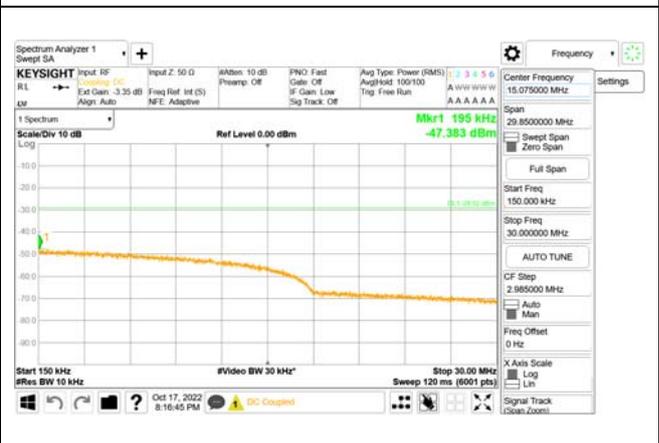
Test Data : Multi carrier

LTE, Multi carrier 5 MHz + 20 MHz, Middle Channel, QPSK ANT1

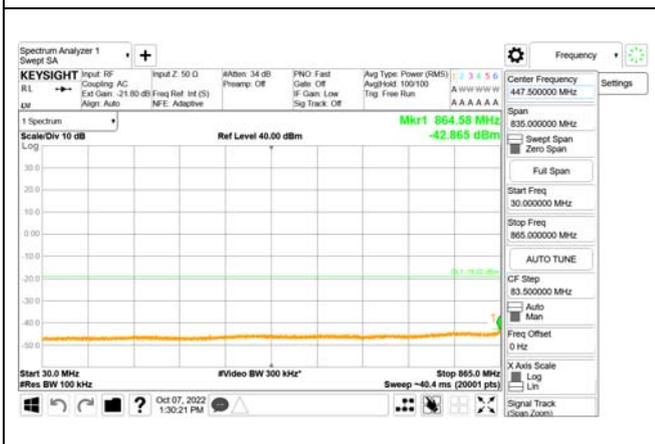
9 kHz - 150 kHz



150 kHz - 30 MHz



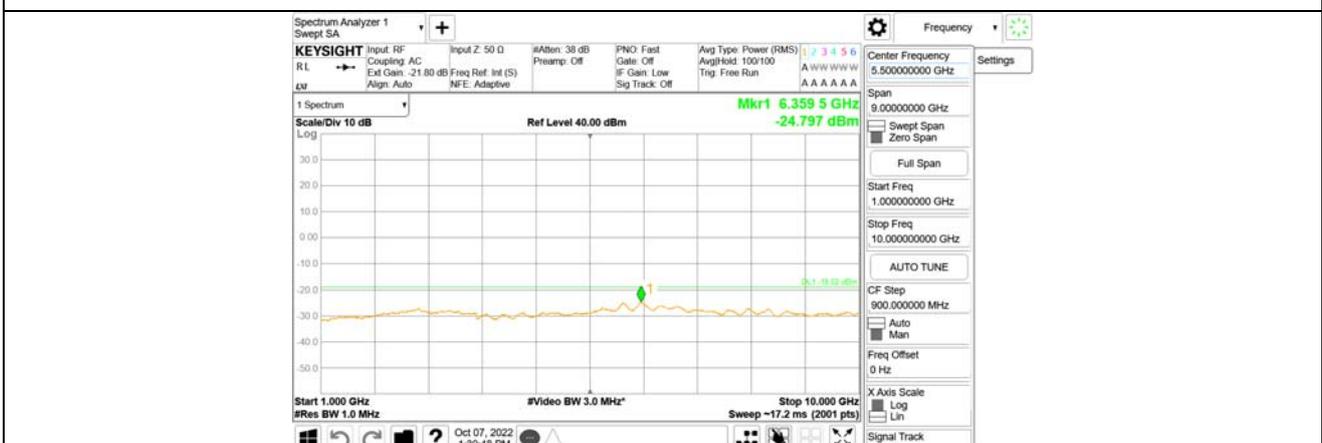
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





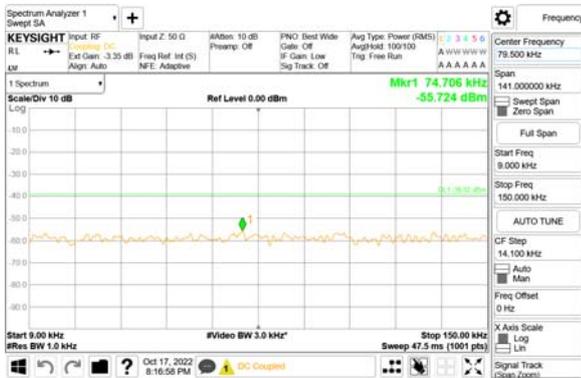
CTK Co., Ltd.

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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



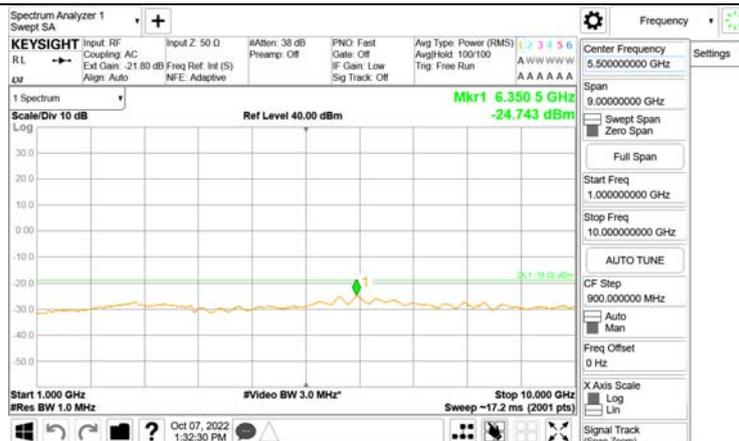
30 MHz - 865 MHz



898 MHz - 1 GHz

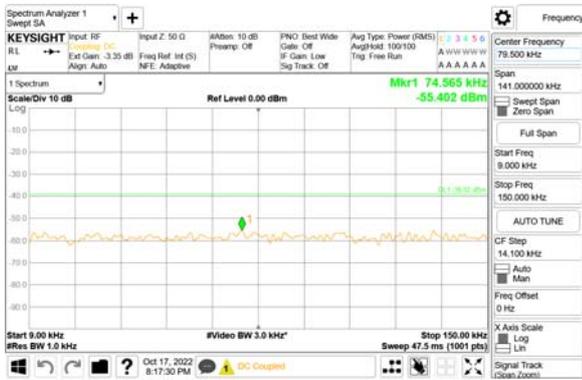


1 GHz - 10 GHz



ANT3

9 kHz - 150 kHz



150 kHz - 30 MHz



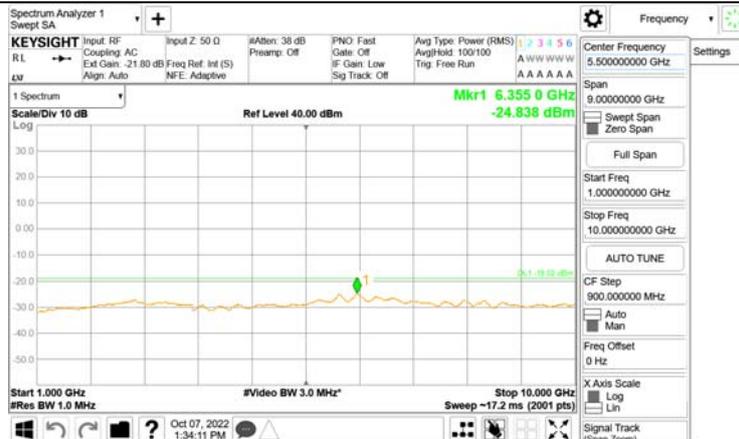
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





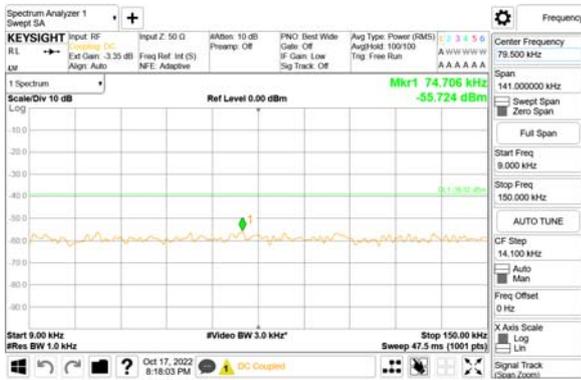
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ANT4

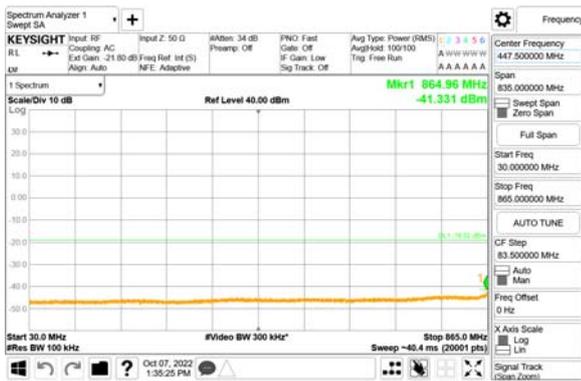
9 kHz - 150 kHz



150 kHz - 30 MHz



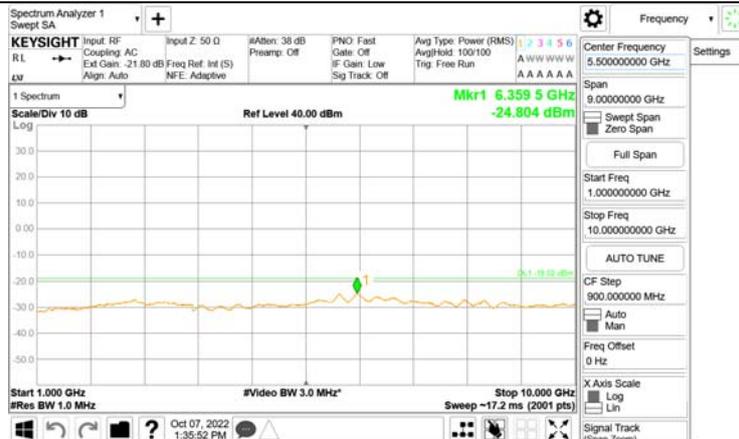
30 MHz - 865 MHz



898 MHz - 1 GHz



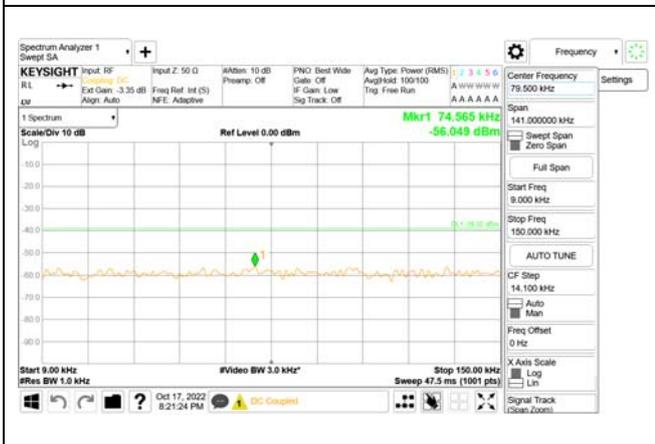
1 GHz - 10 GHz





**LTE, Multi carrier 5 MHz + 20 MHz, Middle Channel, 16QAM
ANT1**

9 kHz - 150 kHz



150 kHz - 30 MHz



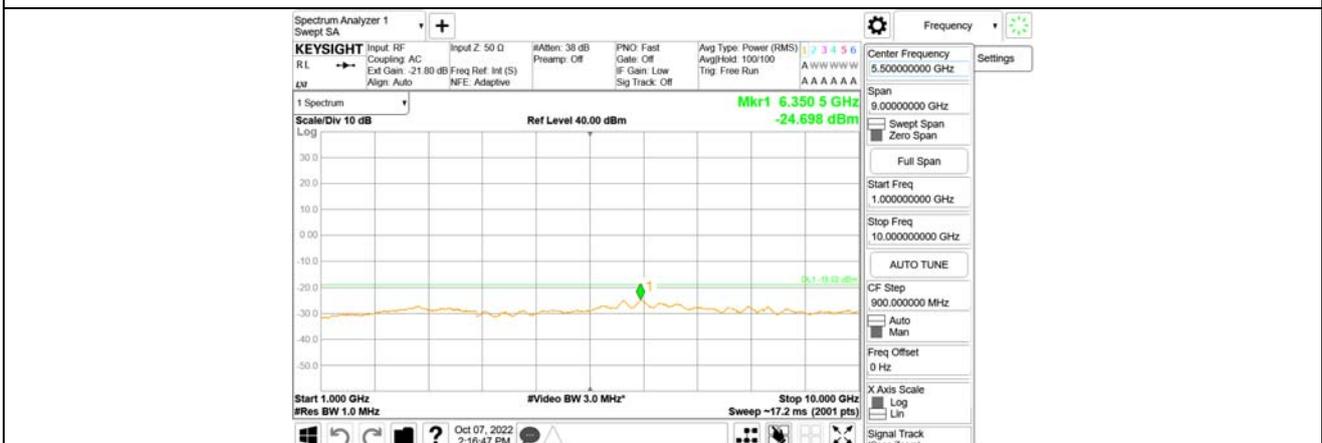
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





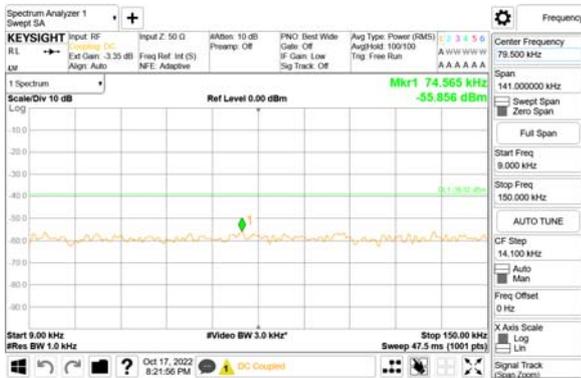
CTK Co., Ltd.

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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



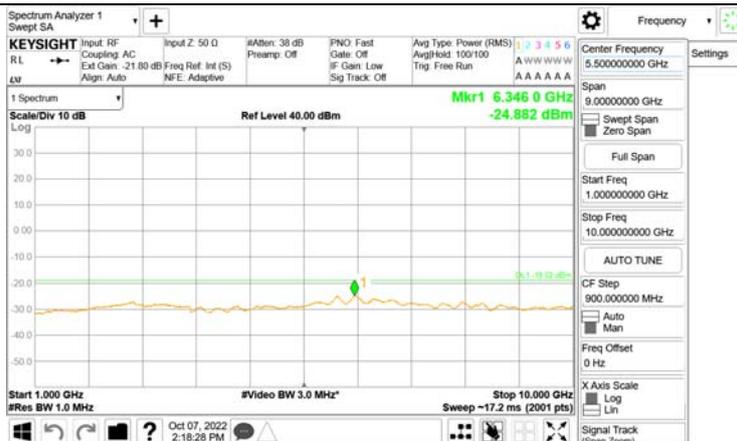
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





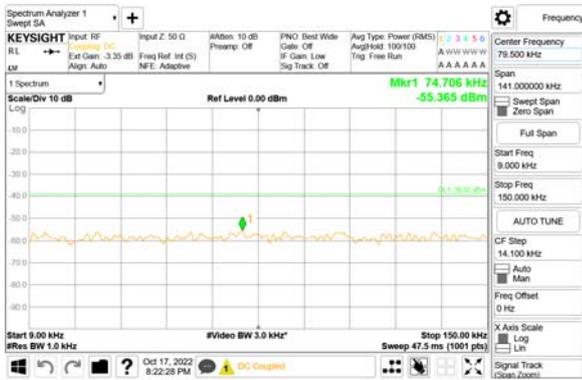
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ANT3

9 kHz - 150 kHz



150 kHz - 30 MHz



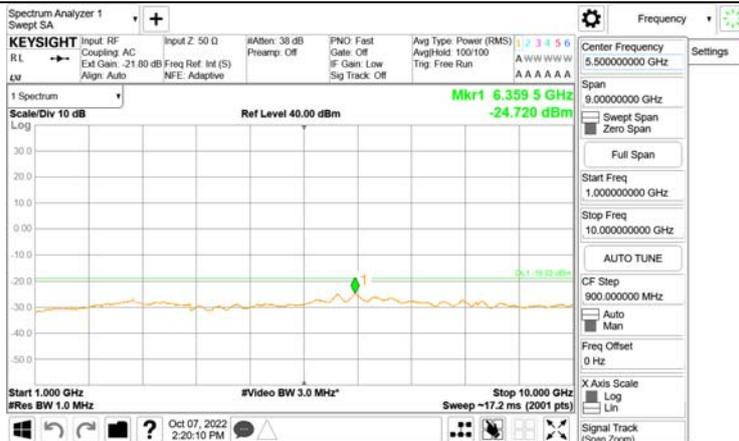
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





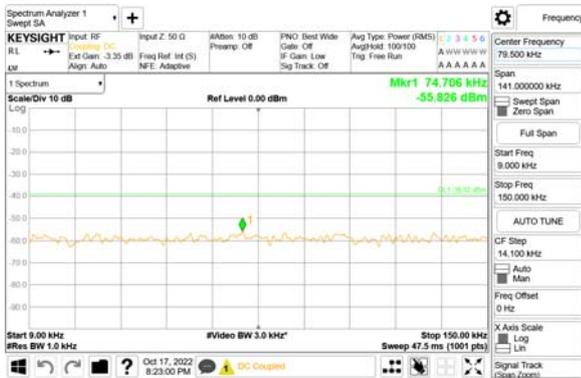
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ANT4

9 kHz - 150 kHz



150 kHz - 30 MHz



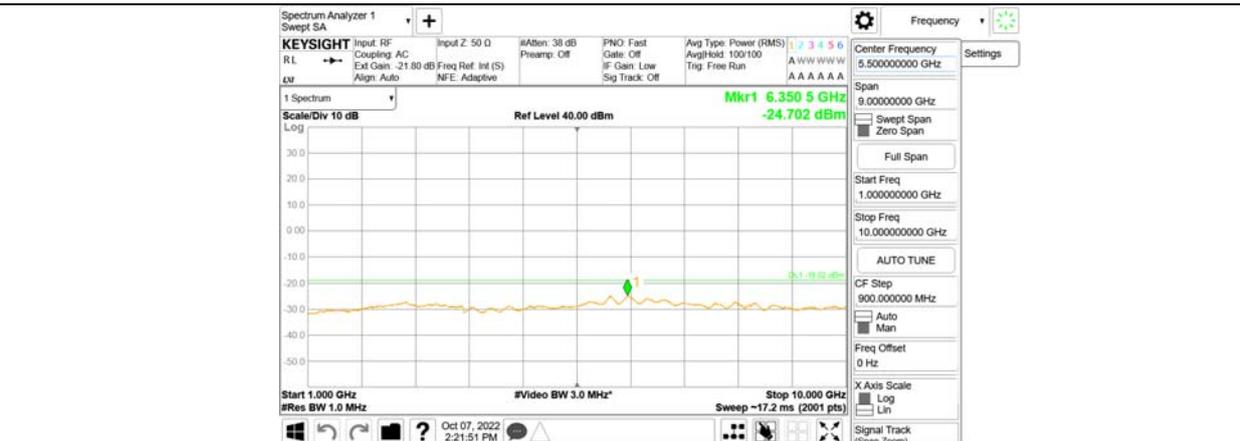
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





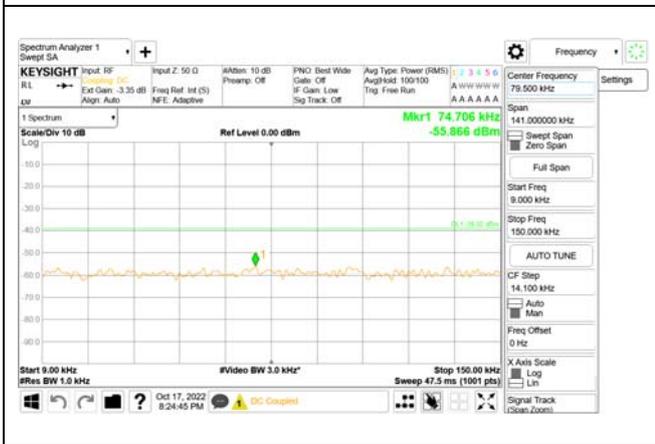
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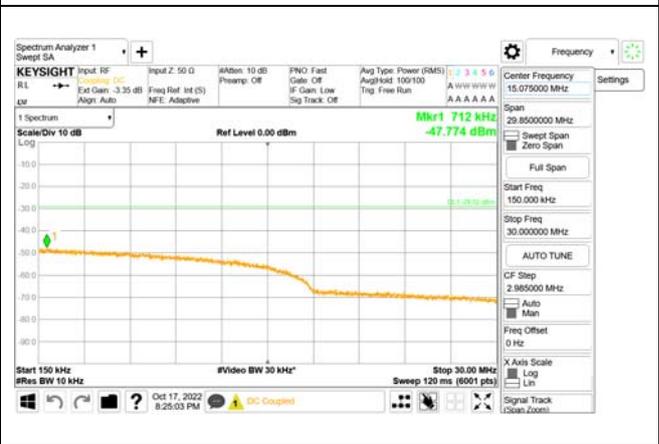
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LTE, Multi carrier 5 MHz + 20 MHz, Middle Channel, 64QAM ANT1

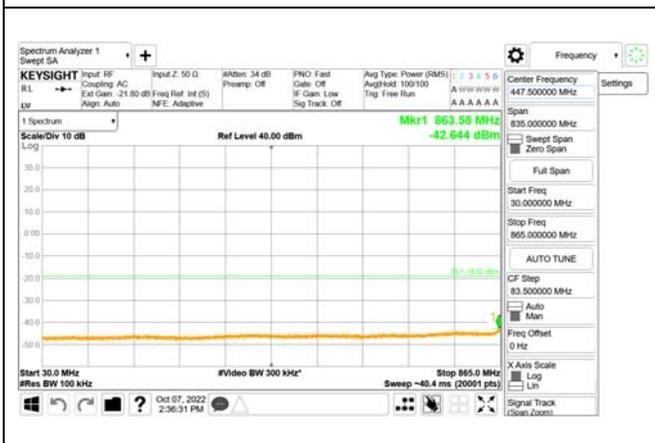
9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





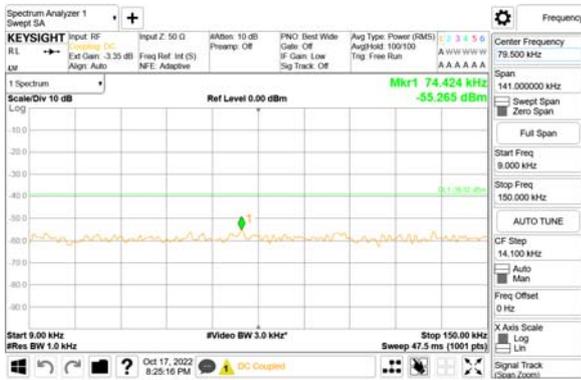
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



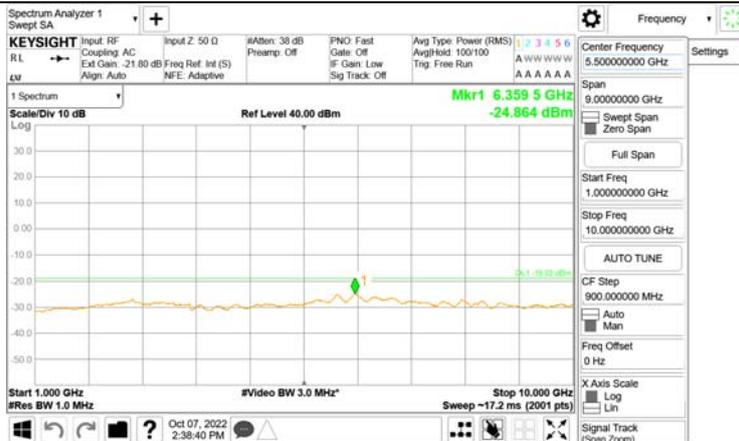
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





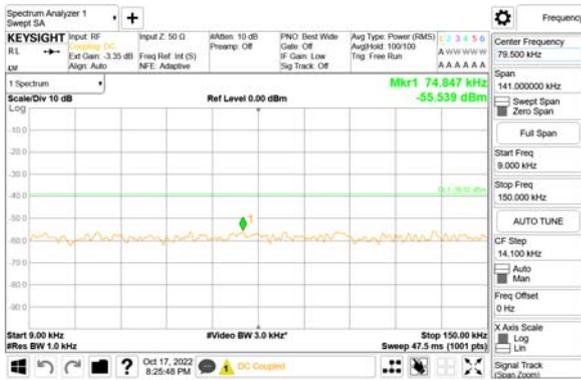
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Fax: +82-31-624-9501

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ANT3

9 kHz - 150 kHz



150 kHz - 30 MHz



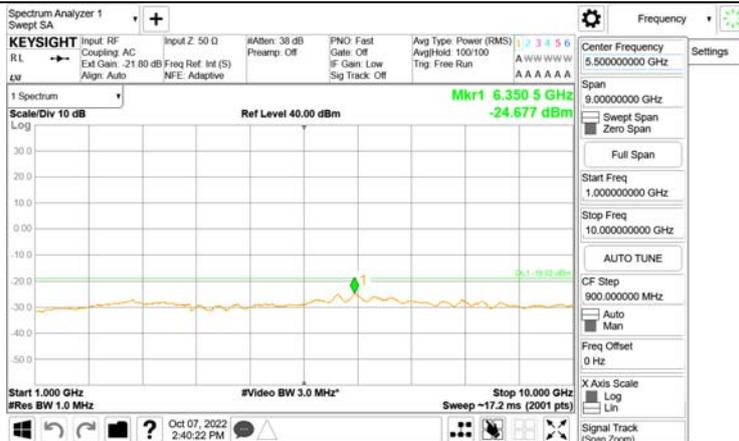
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





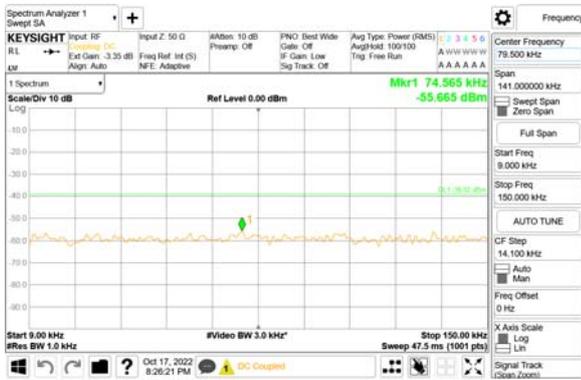
CTK Co., Ltd.

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Gyeonggi-do, 449-100, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

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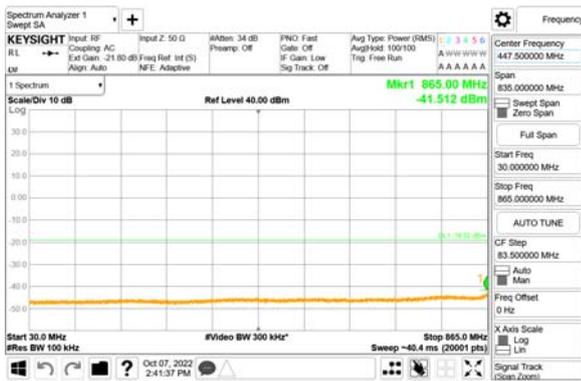
9 kHz - 150 kHz



150 kHz - 30 MHz



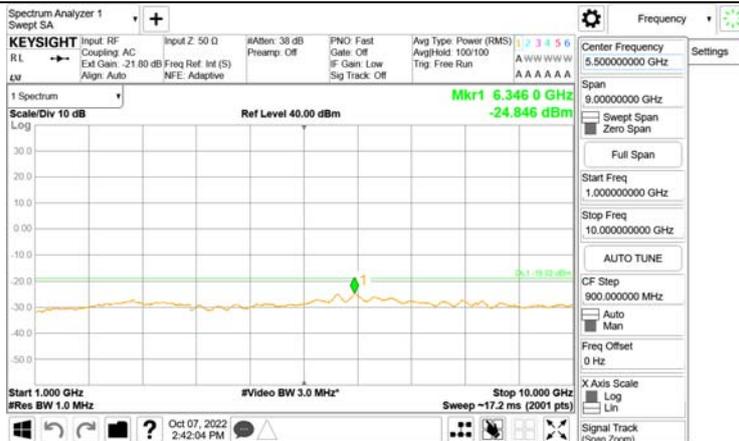
30 MHz - 865 MHz



898 MHz - 1 GHz



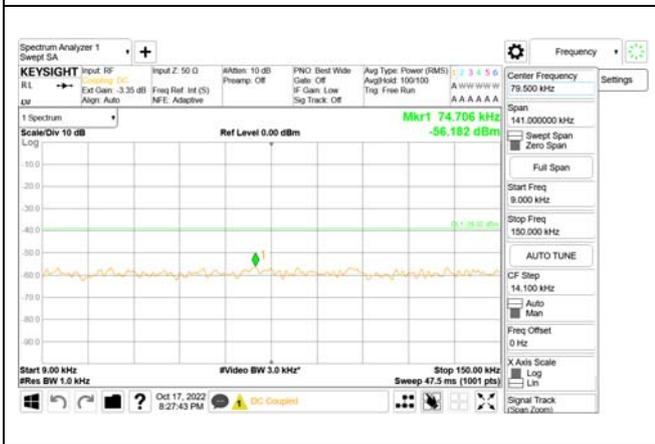
1 GHz - 10 GHz



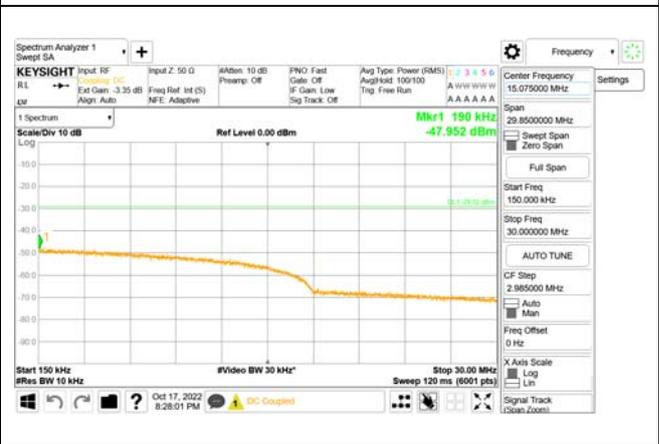


**LTE, Multi carrier 5 MHz + 20 MHz, Middle Channel, 256QAM
ANT1**

9 kHz - 150 kHz



150 kHz - 30 MHz



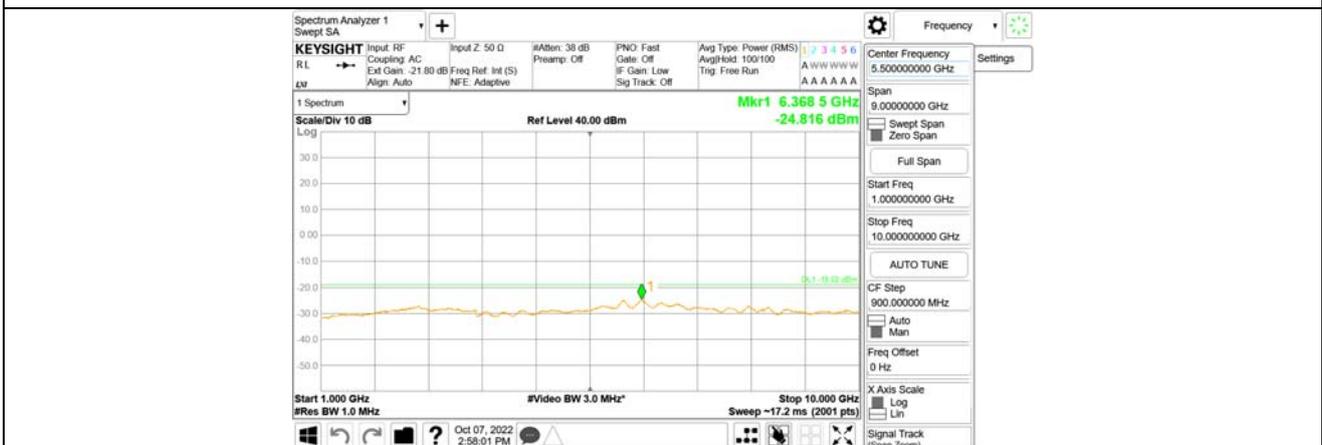
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





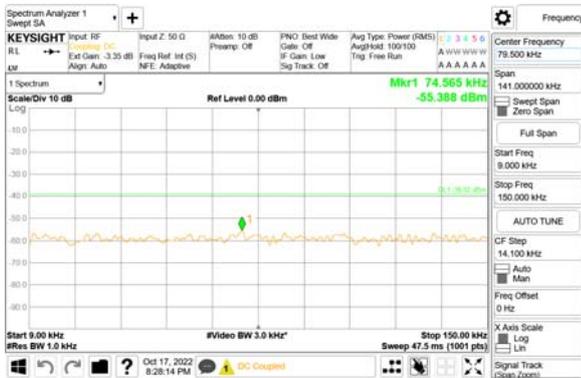
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



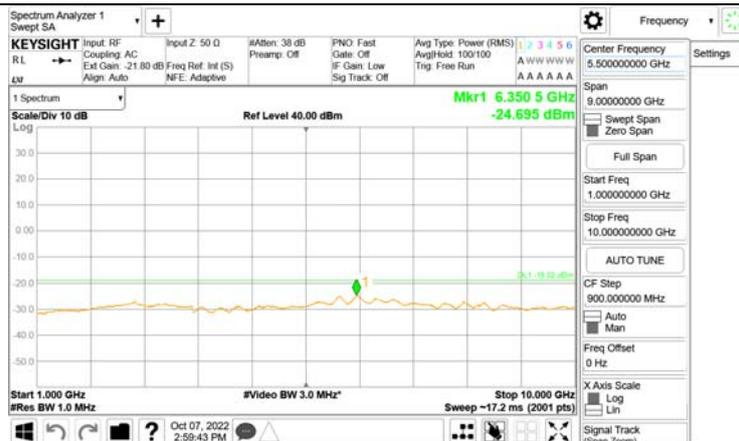
30 MHz - 865 MHz



898 MHz - 1 GHz

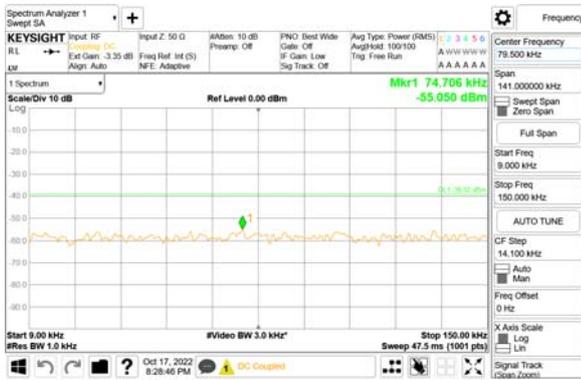


1 GHz - 10 GHz



ANT3

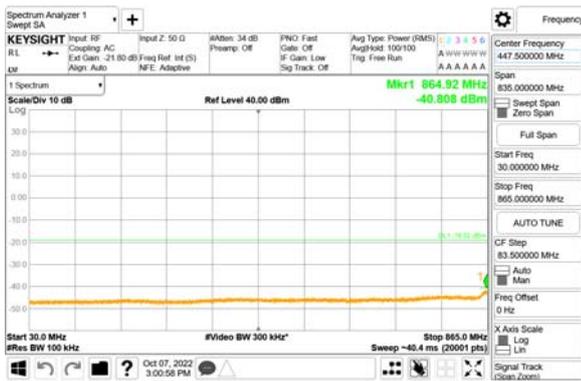
9 kHz - 150 kHz



150 kHz - 30 MHz



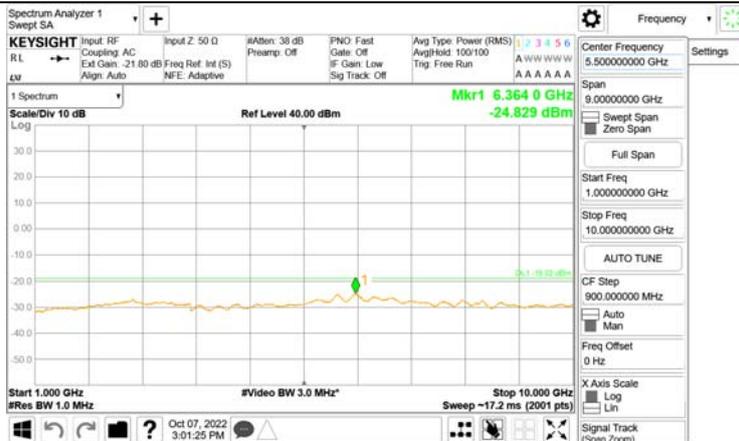
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





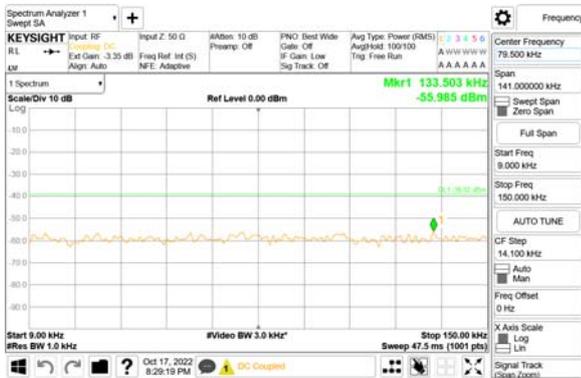
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ANT4

9 kHz - 150 kHz



150 kHz - 30 MHz



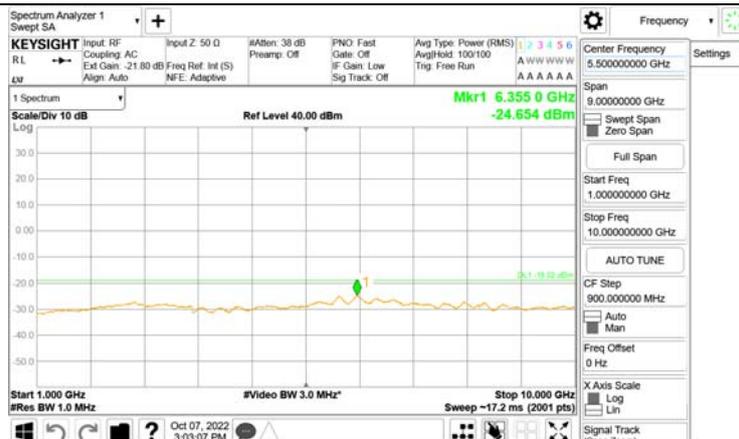
30 MHz - 865 MHz



898 MHz - 1 GHz



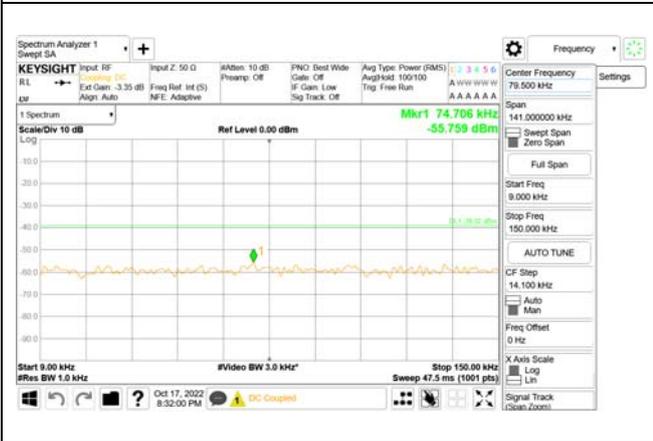
1 GHz - 10 GHz



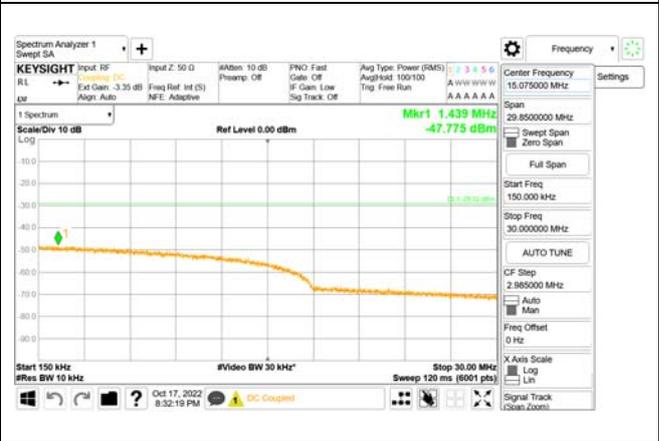


**5G NR, Multi carrier 5 MHz + 20 MHz, Middle Channel, QPSK
ANT1**

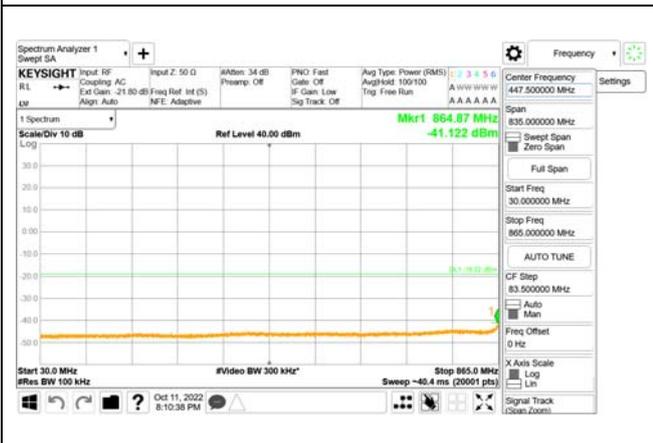
9 kHz - 150 kHz



150 kHz - 30 MHz



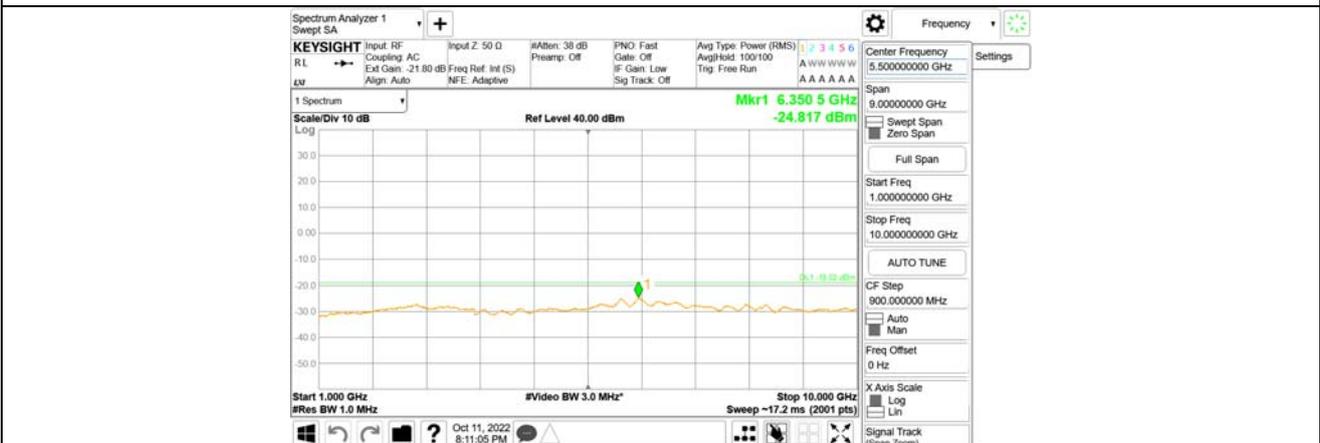
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





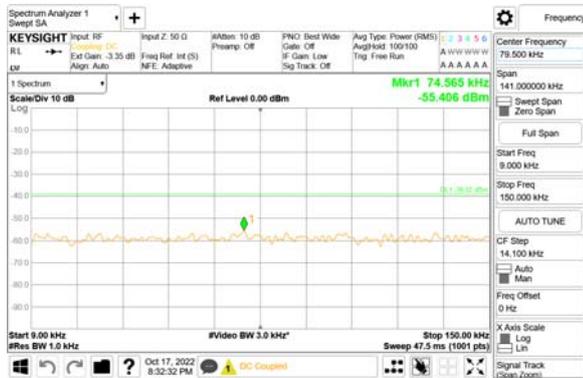
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



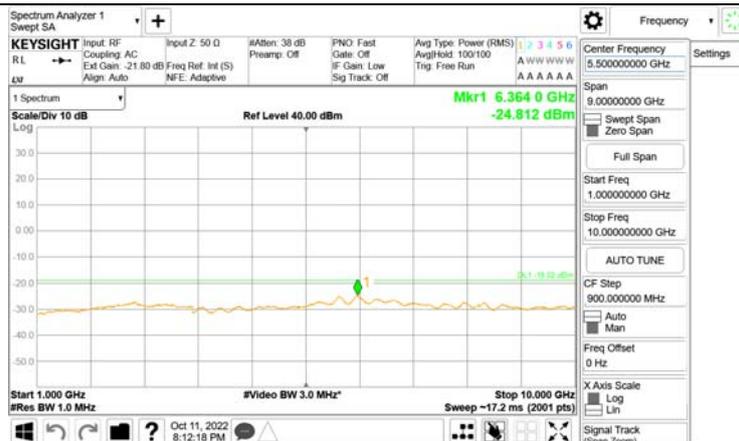
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





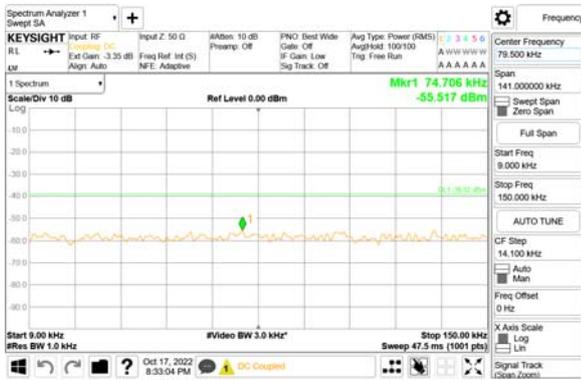
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ANT3

9 kHz - 150 kHz



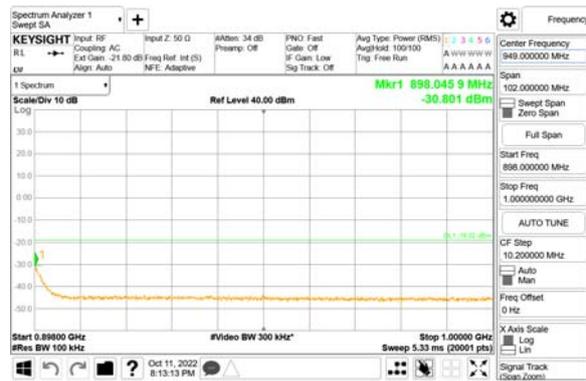
150 kHz - 30 MHz



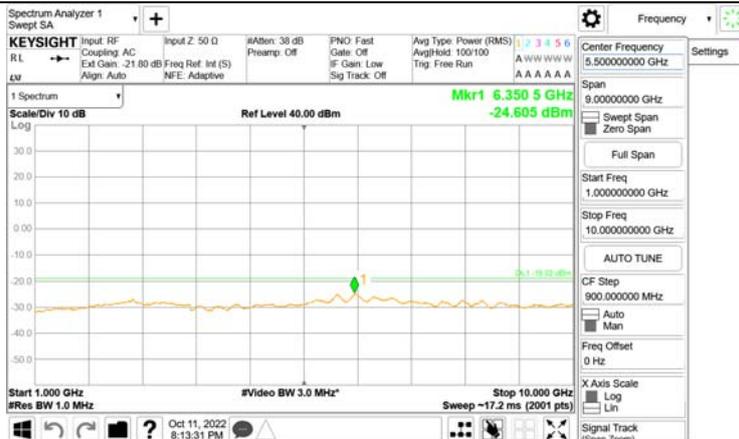
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





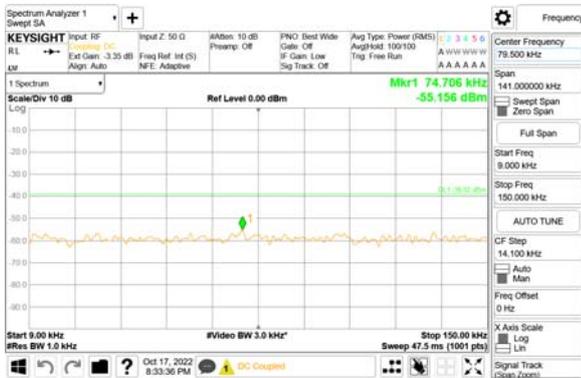
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ANT4

9 kHz - 150 kHz



150 kHz - 30 MHz



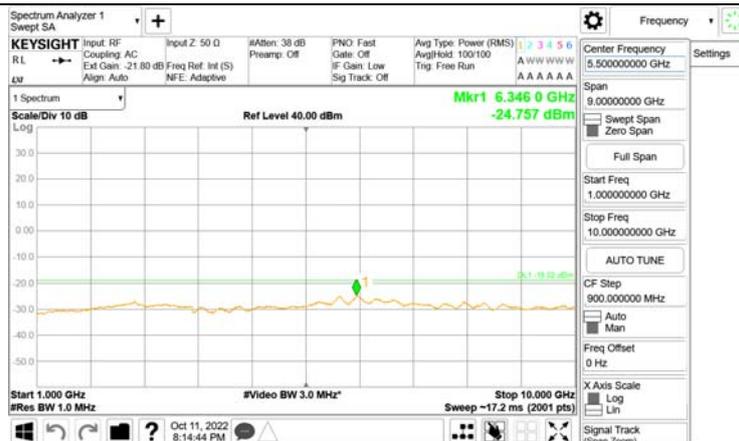
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





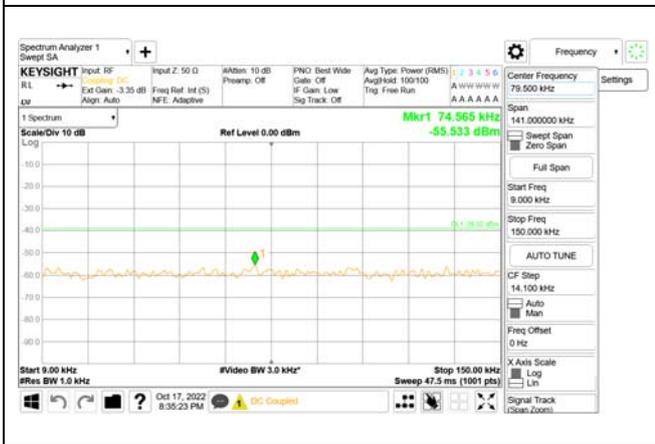
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5G NR, Multi carrier 5 MHz + 20 MHz, Middle Channel, 16QAM ANT1

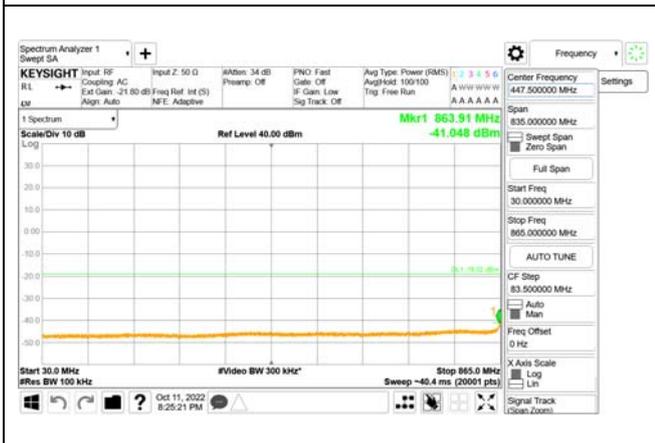
9 kHz - 150 kHz



150 kHz - 30 MHz



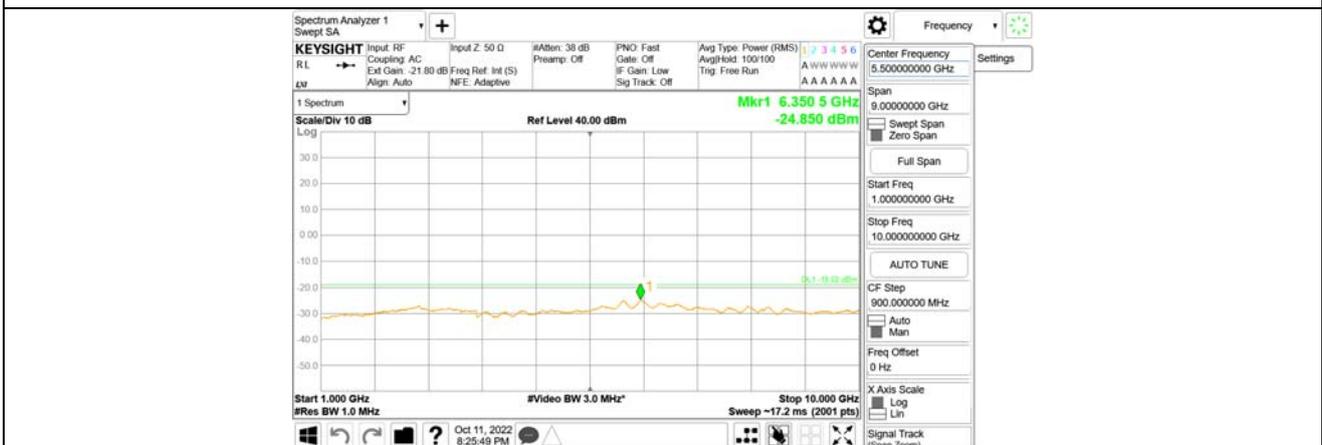
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





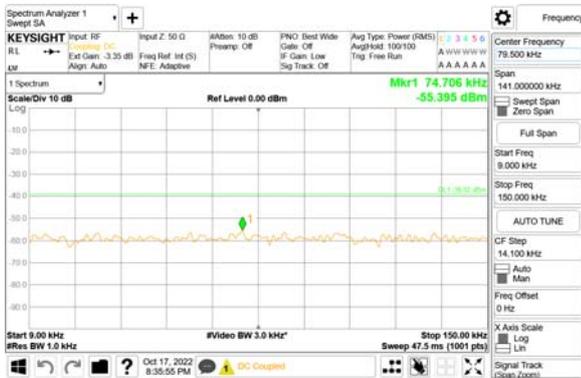
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



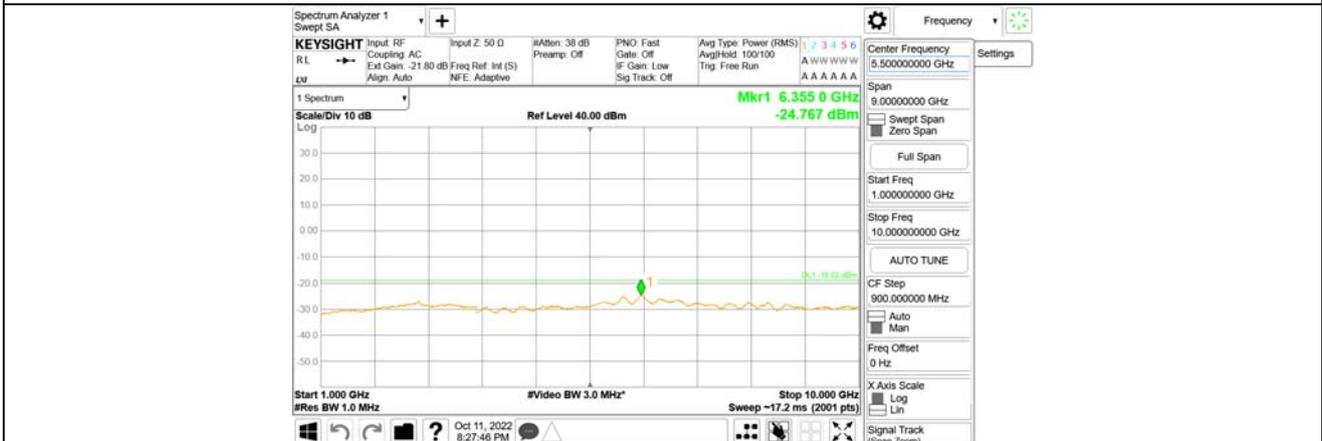
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





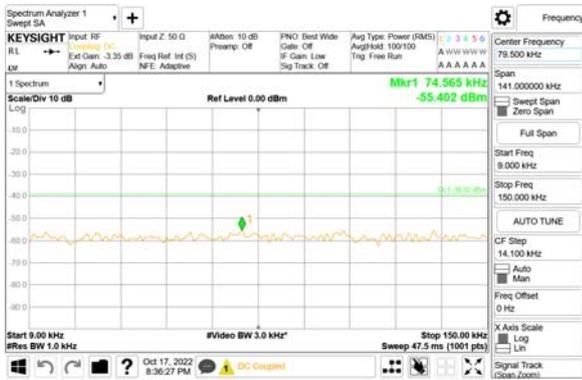
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ANT3

9 kHz - 150 kHz



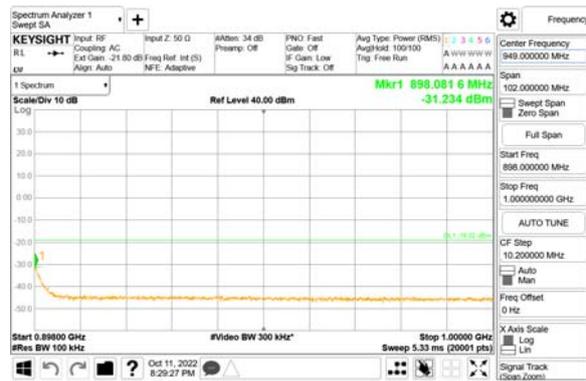
150 kHz - 30 MHz



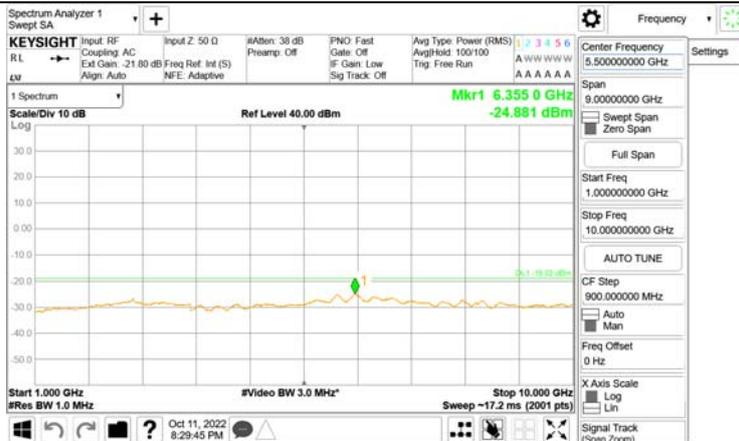
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





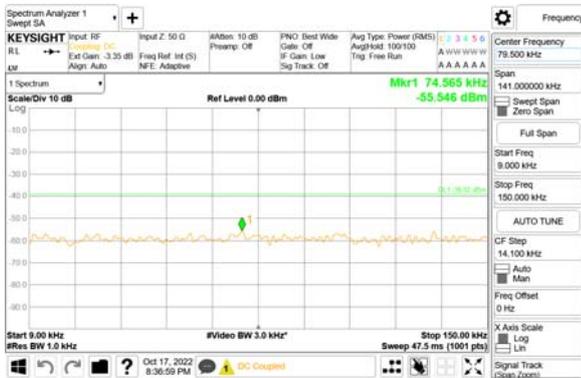
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ANT4

9 kHz - 150 kHz



150 kHz - 30 MHz



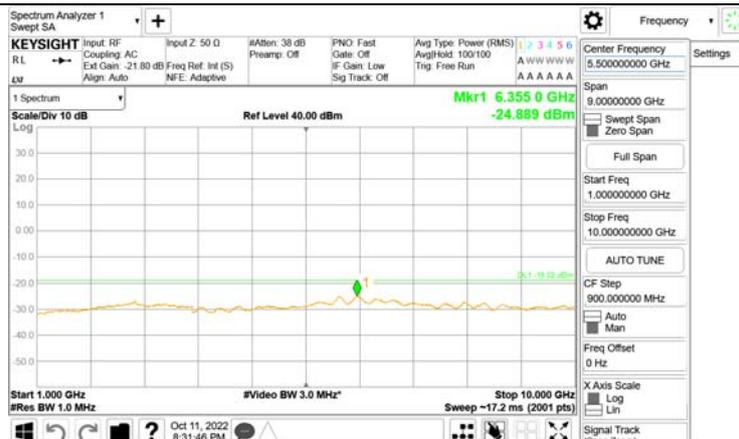
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz



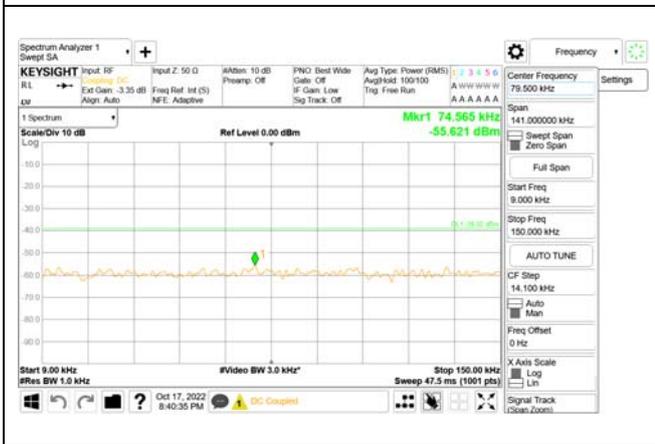


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5G NR, Multi carrier 5 MHz + 20 MHz, Middle Channel, 64QAM ANT1

9 kHz - 150 kHz



150 kHz - 30 MHz



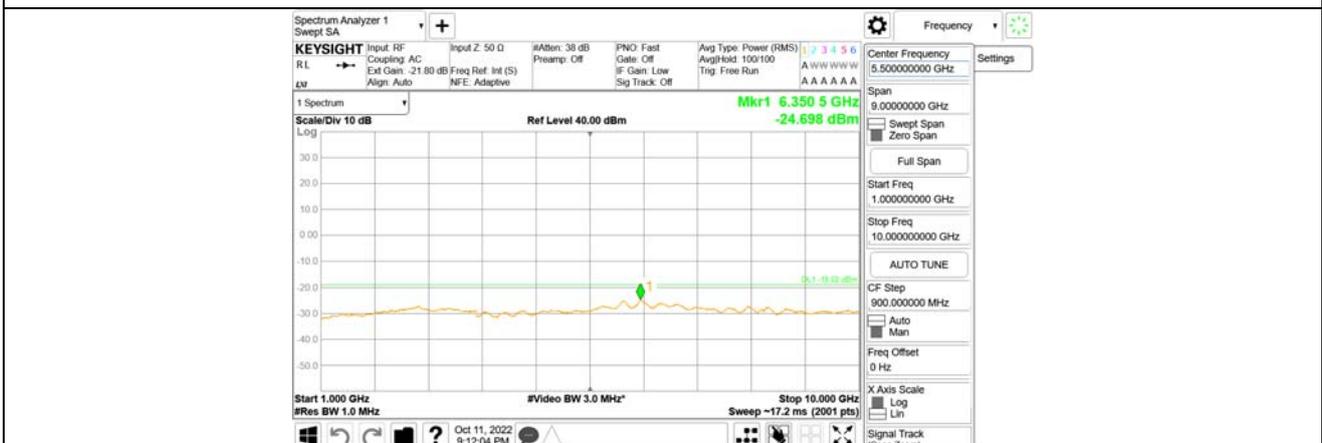
30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz





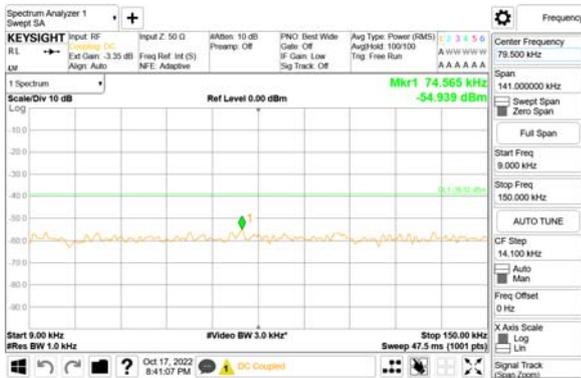
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ANT2

9 kHz - 150 kHz



150 kHz - 30 MHz



30 MHz - 865 MHz



898 MHz - 1 GHz



1 GHz - 10 GHz

