

KCTL Inc.

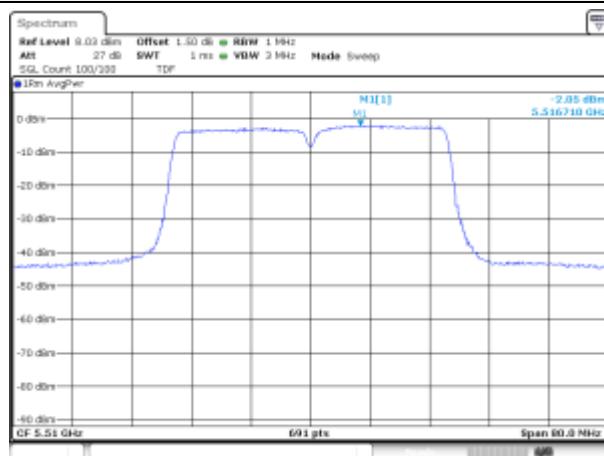
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

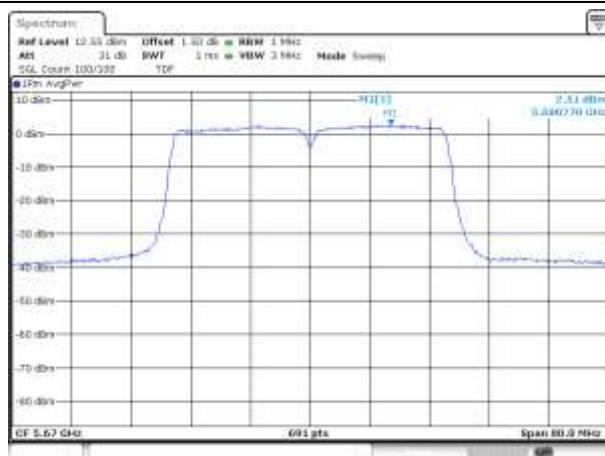
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KCTL

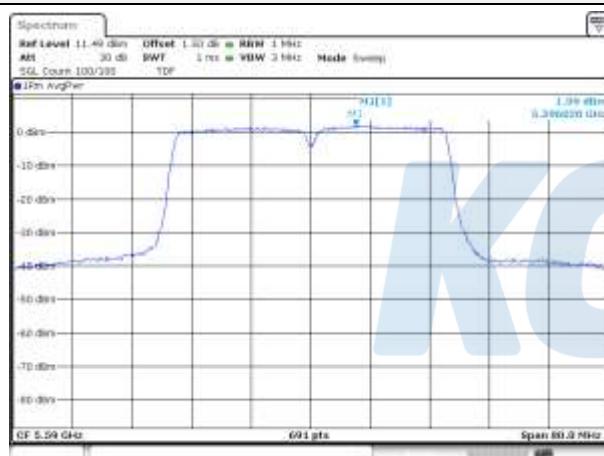
UNII-2C / 802.11n HT40 / 5 510 MHz



UNII-2C / 802.11n HT40 / 5 670 MHz



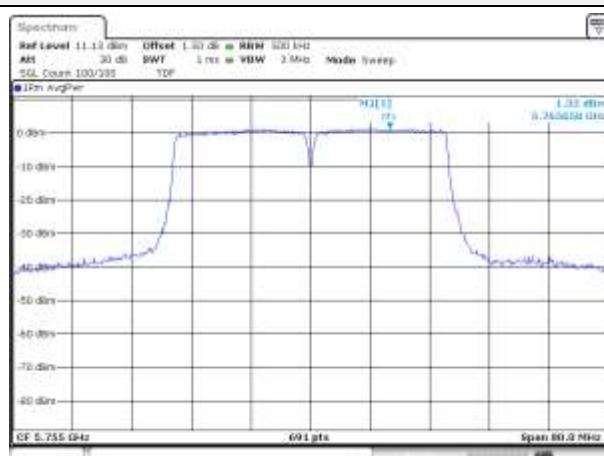
UNII-2C / 802.11n HT40 / 5 590 MHz



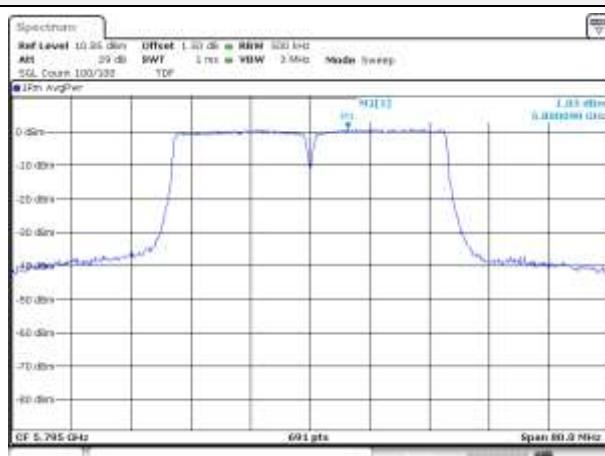
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz

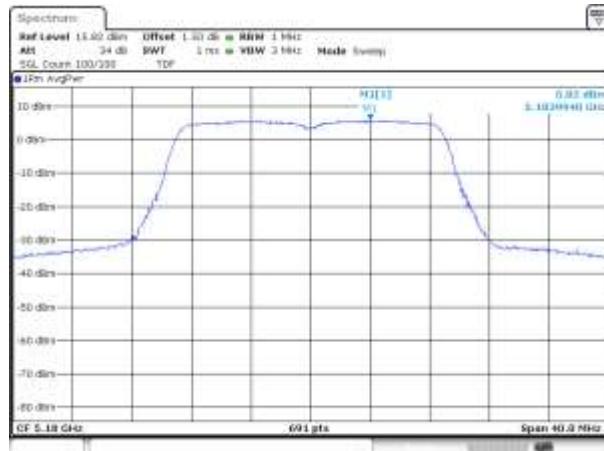
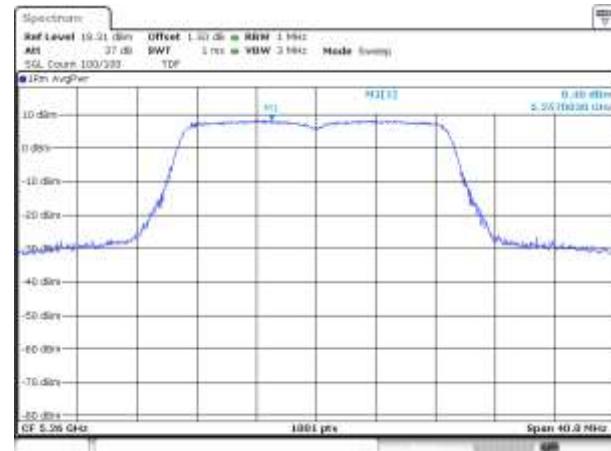
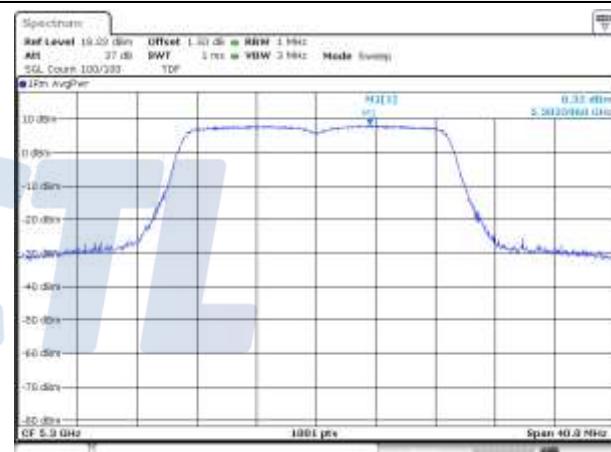


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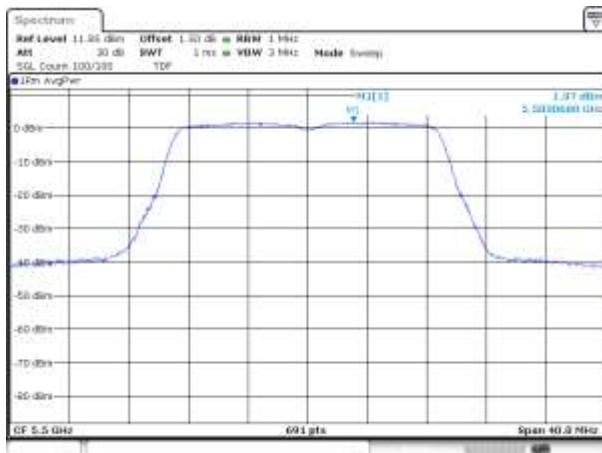
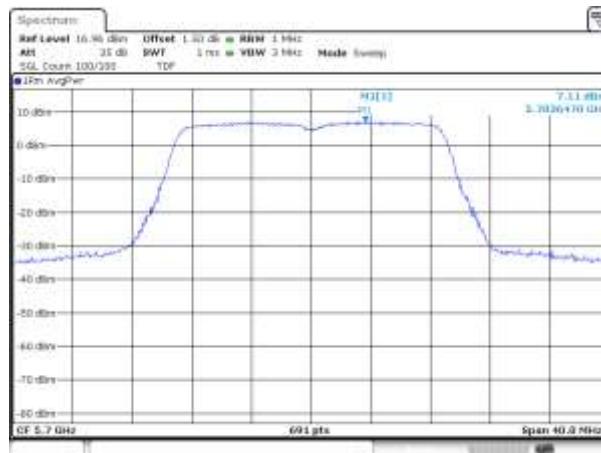
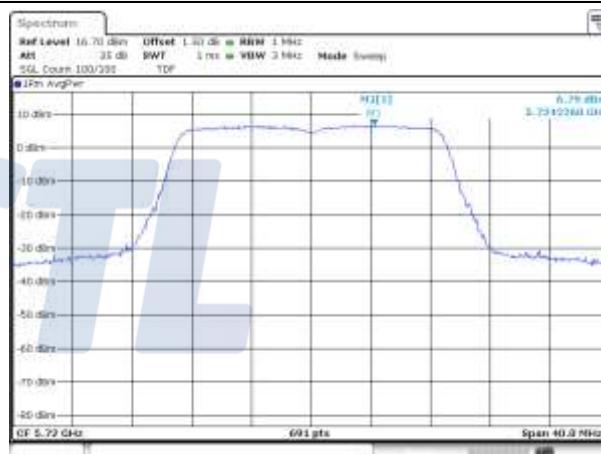
KCTL**UNII-1 / 802.11ac VHT20 / 5 180 MHz****UNII-2A / 802.11ac VHT20 / 5 260 MHz****UNII-1 / 802.11ac VHT20 / 5 220 MHz****UNII-2A / 802.11ac VHT20 / 5 300 MHz****UNII-1 / 802.11ac VHT20 / 5 240 MHz****UNII-2A / 802.11ac VHT20 / 5 320 MHz**

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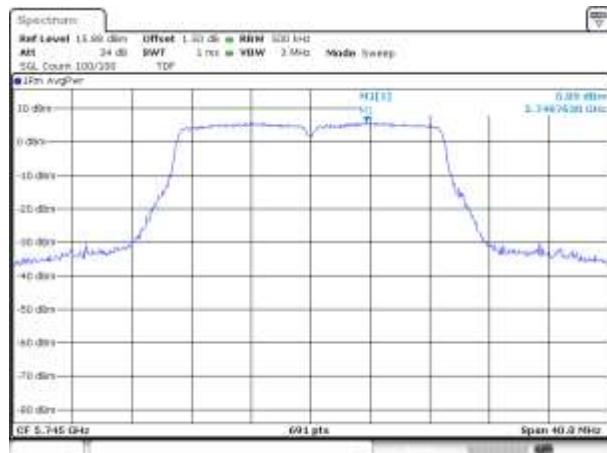
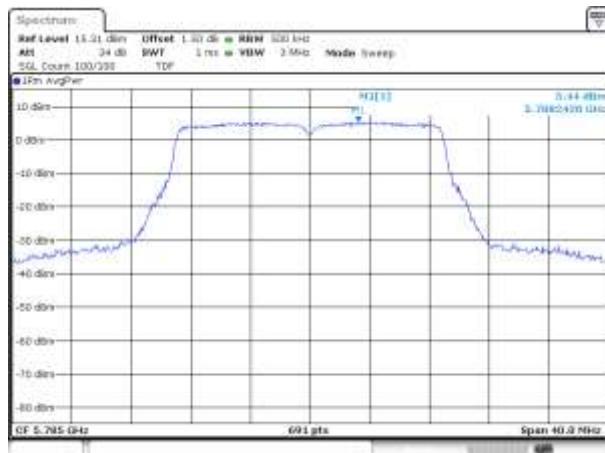
KCTL**UNII-2C / 802.11ac VHT20 / 5 500 MHz****UNII-2C / 802.11ac VHT20 / 5 700 MHz****UNII-2C / 802.11ac VHT20 / 5 600 MHz****UNII-2C / 802.11ac VHT20 / 5 720 MHz**

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KCTL**UNII-3 / 802.11ac VHT20 / 5 745 MHz****UNII-3 / 802.11ac VHT20 / 5 785 MHz****UNII-3 / 802.11ac VHT20 / 5 825 MHz**

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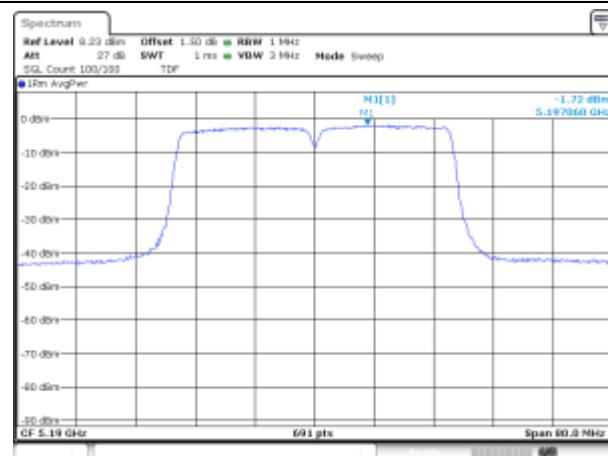
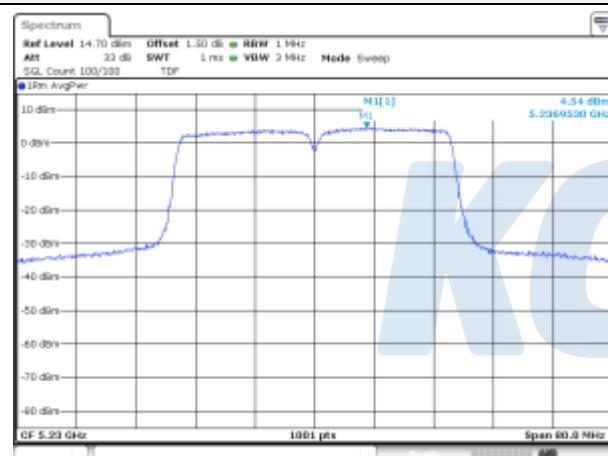
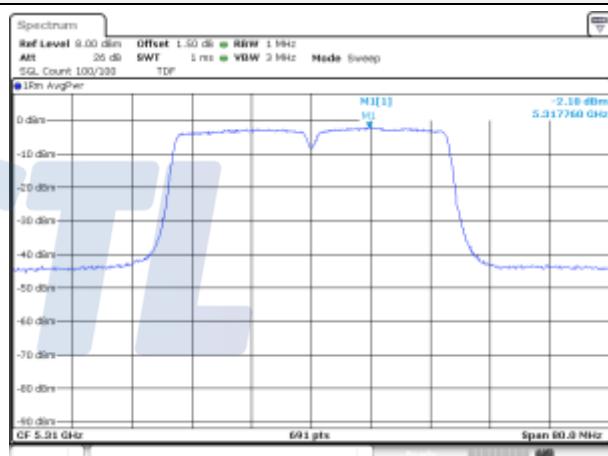
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KCTL**UNII-1 / 802.11ac VHT40 / 5 190 MHz****UNII-2A / 802.11ac VHT40 / 5 270 MHz****UNII-1 / 802.11ac VHT40 / 5 230 MHz****UNII-2A / 802.11ac VHT40 / 5 310 MHz**

KCTL Inc.

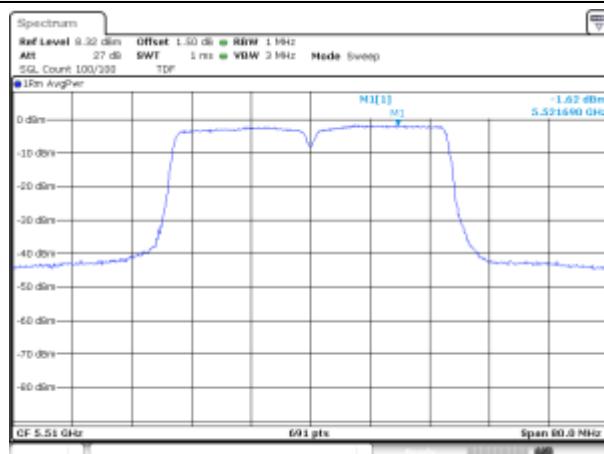
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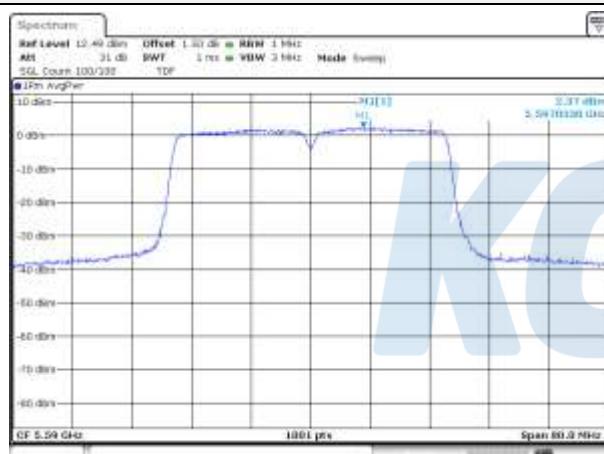
UNII-2C / 802.11ac VHT40 / 5 510 MHz



UNII-2C / 802.11ac VHT40 / 5 670 MHz



UNII-2C / 802.11ac VHT40 / 5 590 MHz



UNII-2C / 802.11ac VHT40 / 5 710 MHz



UNII-3 / 802.11ac VHT40 / 5 755 MHz



UNII-3 / 802.11ac VHT40 / 5 795 MHz



KCTL Inc.

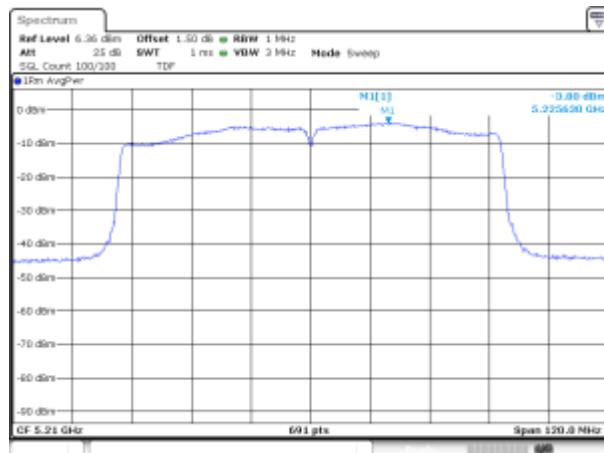
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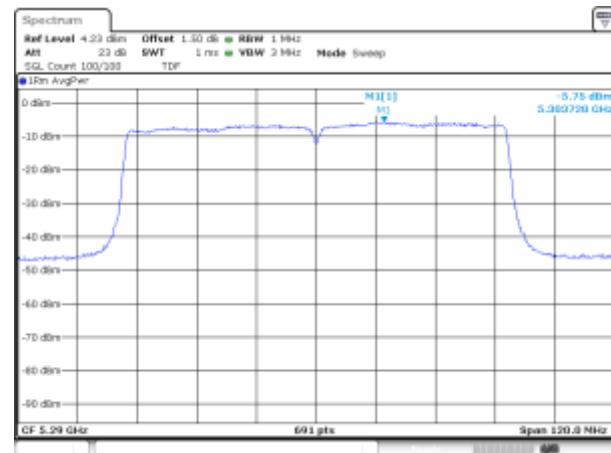
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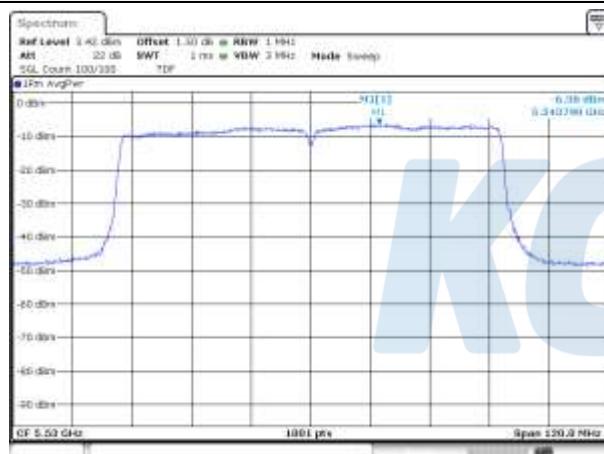
UNII-1 / 802.11ac VHT80 / 5 210 MHz



UNII-2A / 802.11ac VHT80 / 5 290 MHz



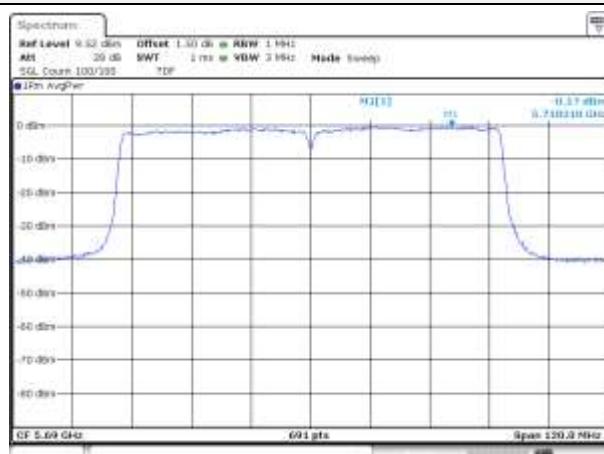
UNII-2C / 802.11ac VHT80 / 5 530 MHz



UNII-2C / 802.11ac VHT80 / 5 610 MHz



UNII-2C / 802.11ac VHT80 / 5 690 MHz



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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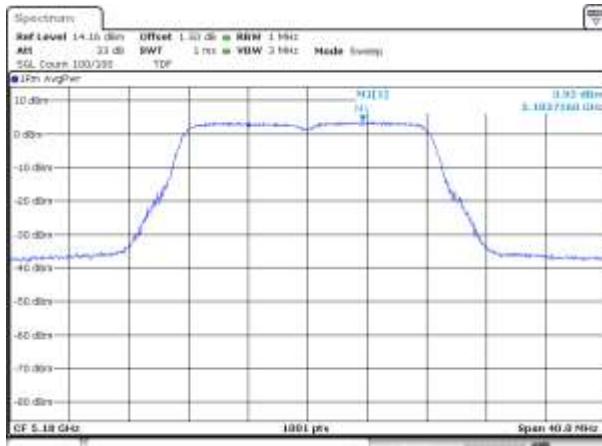
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KR20-SRF0030-D

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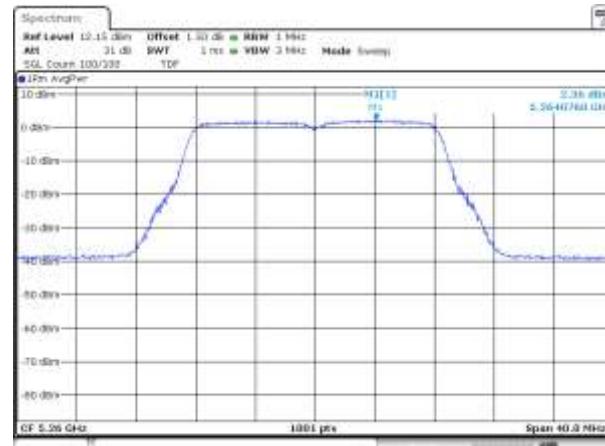
KCTL

4TX MIMO ANT 0

UNII-1 / 802.11a / 5 180 MHz



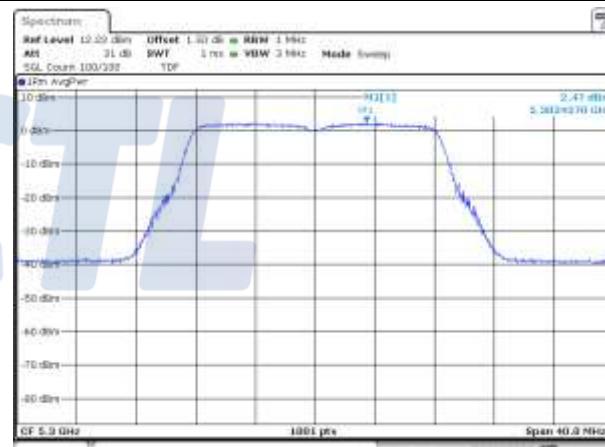
UNII-2A / 802.11a / 5 260 MHz



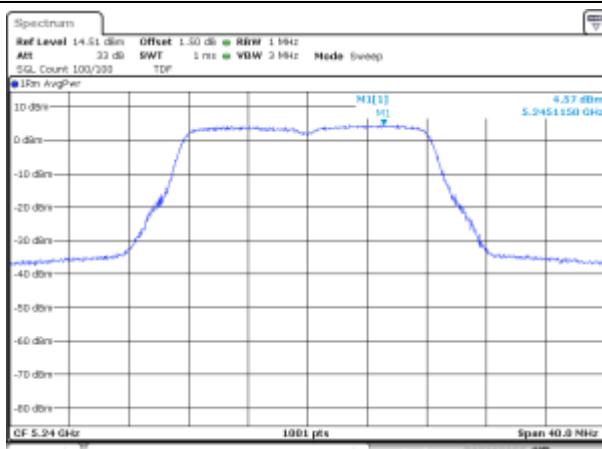
UNII-1 / 802.11a / 5 220 MHz



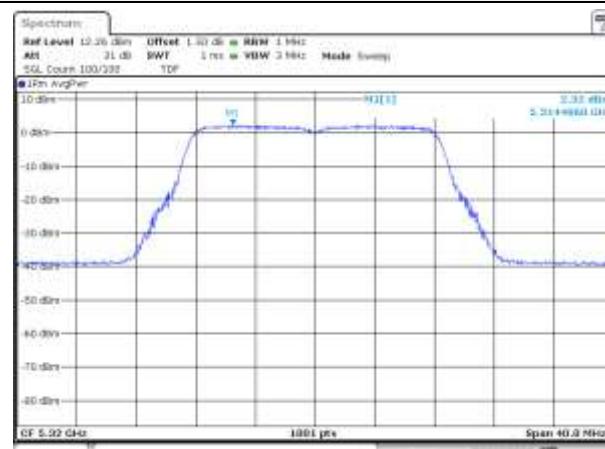
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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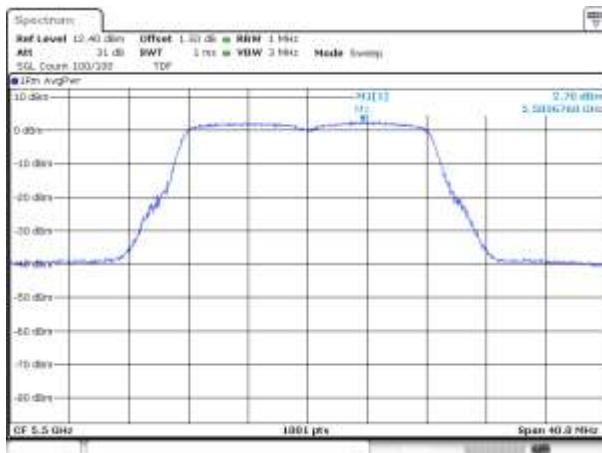
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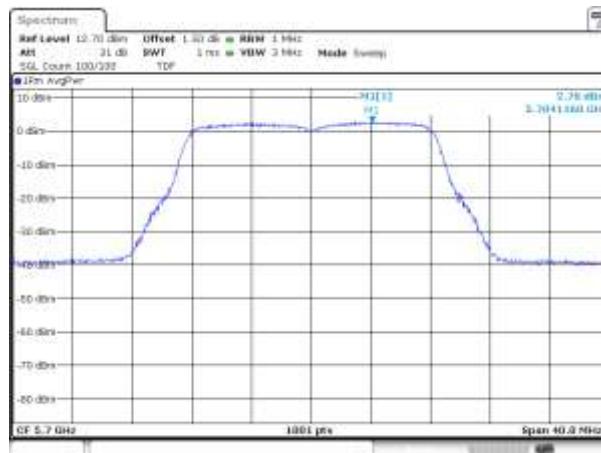
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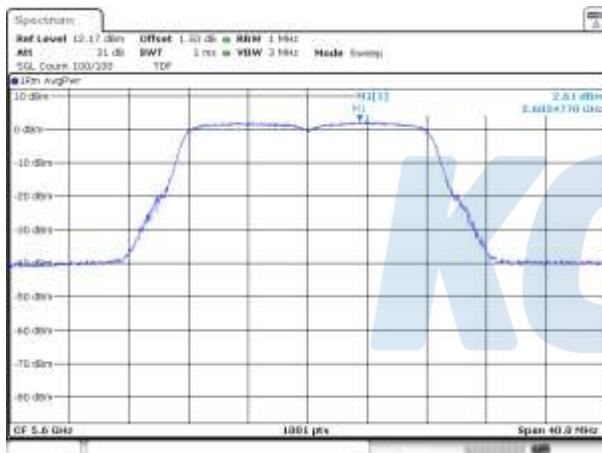
UNII-2C / 802.11a / 5 500 MHz



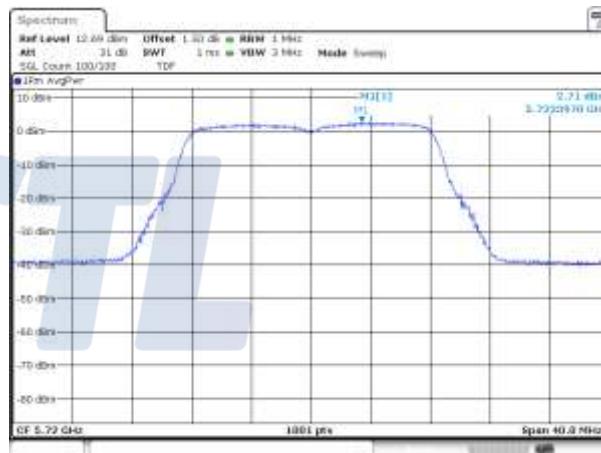
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz

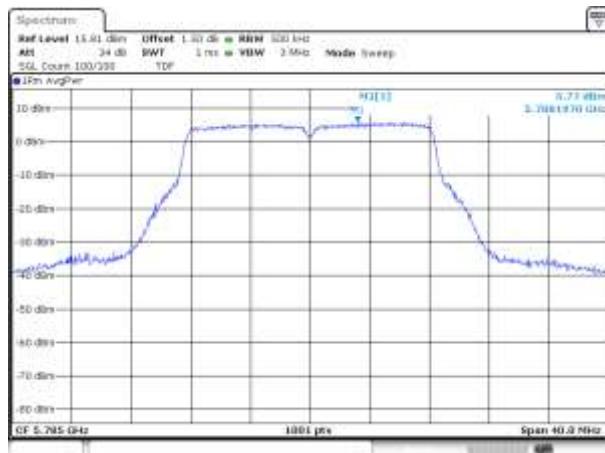
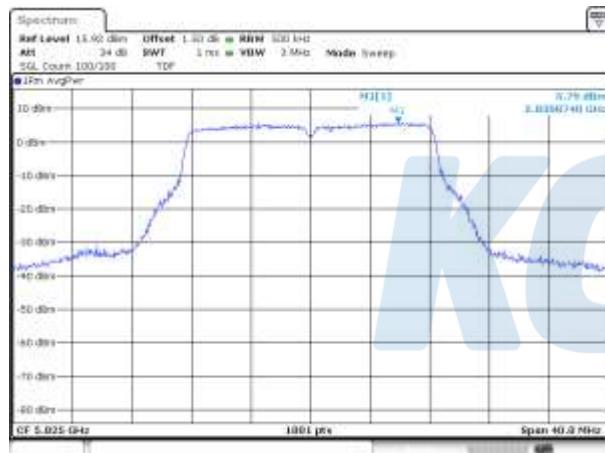


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KCTL**UNII-3 / 802.11a / 5 745 MHz****UNII-3 / 802.11a / 5 785 MHz****UNII-3 / 802.11a / 5 825 MHz**

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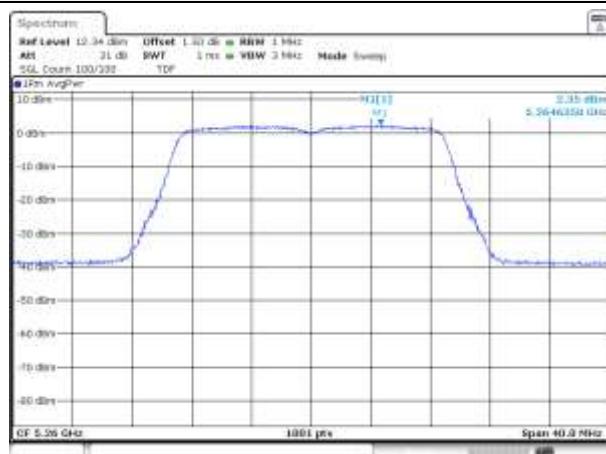
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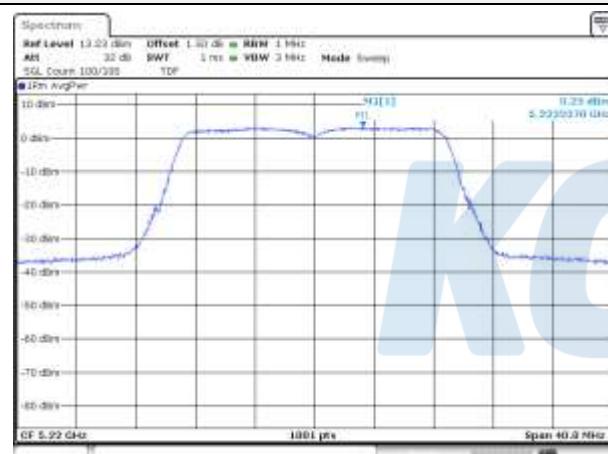
UNII-1 / 802.11n HT20 / 5 180 MHz



UNII-2A / 802.11n HT20 / 5 260 MHz



UNII-1 / 802.11n HT20 / 5 220 MHz



UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



KCTL Inc.

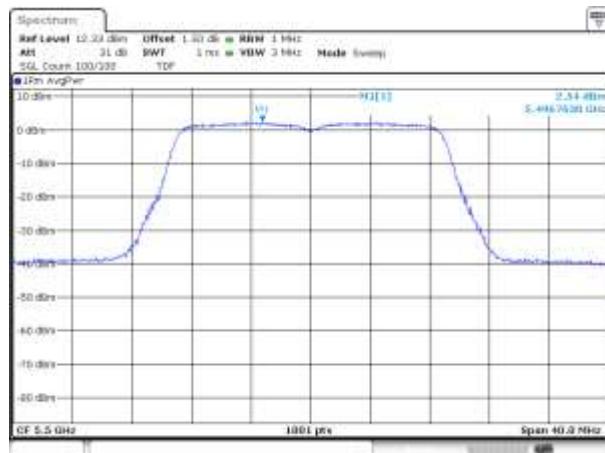
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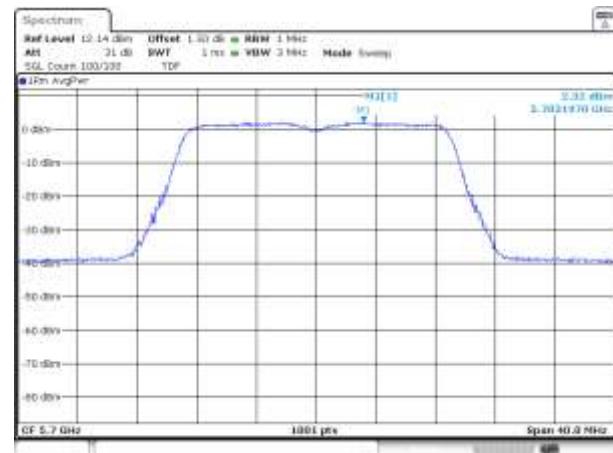
Page (202) of (1046)

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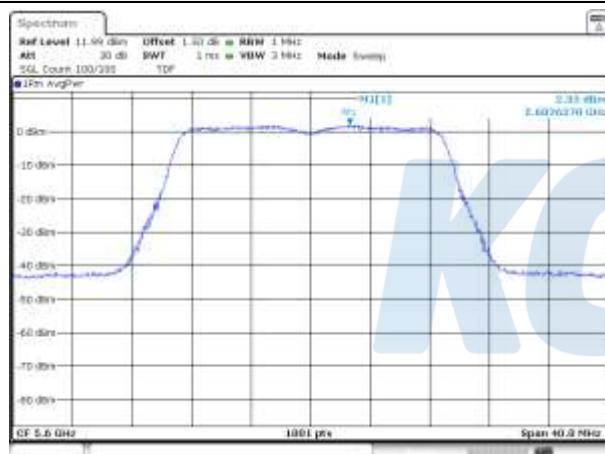
UNII-2C / 802.11n HT20 / 5 500 MHz



UNII-2C / 802.11n HT20 / 5 700 MHz



UNII-2C / 802.11n HT20 / 5 600 MHz



UNII-2C / 802.11n HT20 / 5 720 MHz



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KCTL**UNII-3 / 802.11n HT20 / 5 745 MHz****UNII-3 / 802.11n HT20 / 5 785 MHz****UNII-3 / 802.11n HT20 / 5 825 MHz**

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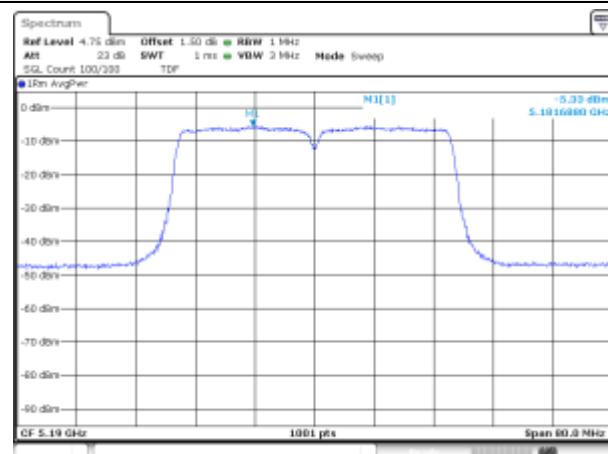
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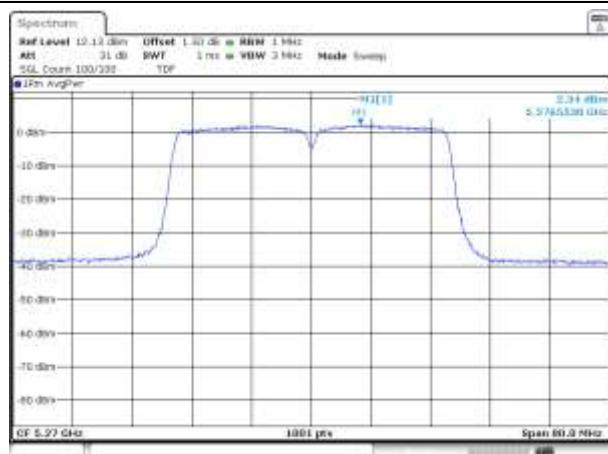
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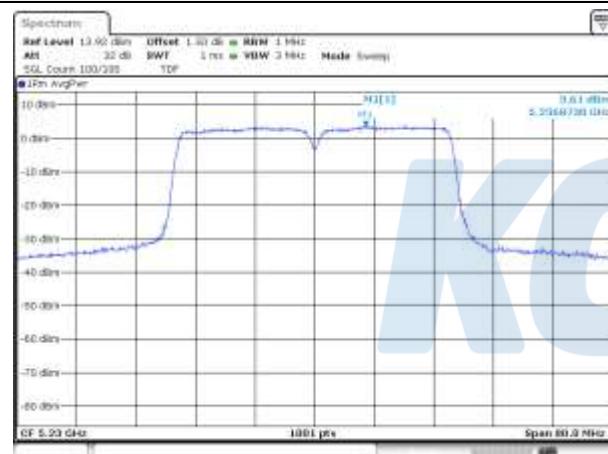
UNII-1 / 802.11n HT40 / 5 190 MHz



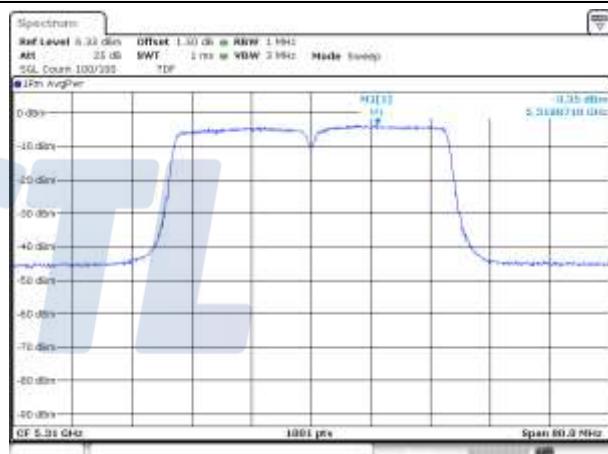
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



UNII-2A / 802.11n HT40 / 5 310 MHz



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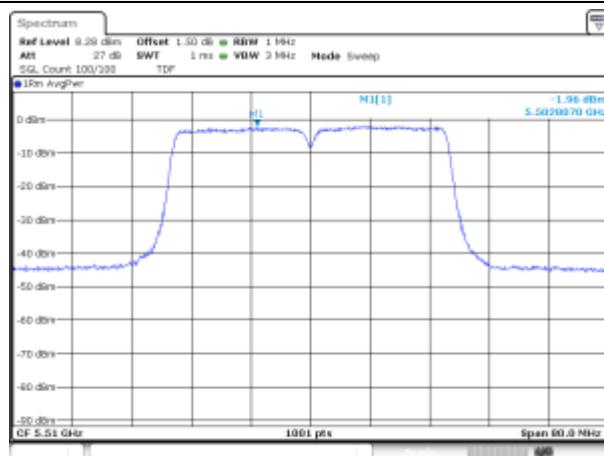
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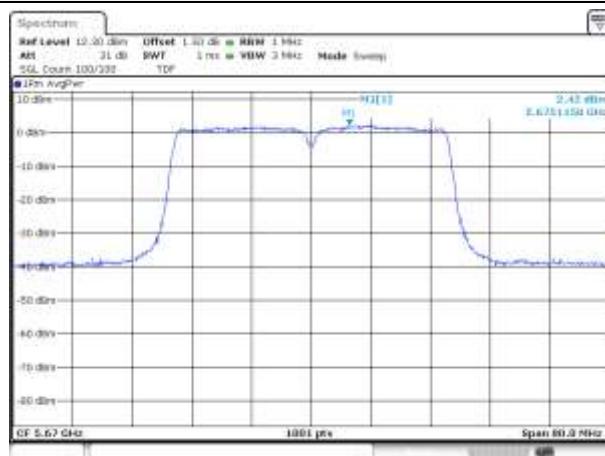
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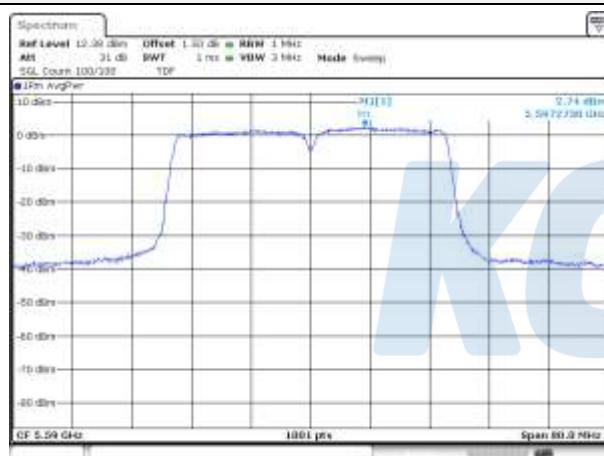
UNII-2C / 802.11n HT40 / 5 510 MHz



UNII-2C / 802.11n HT40 / 5 670 MHz



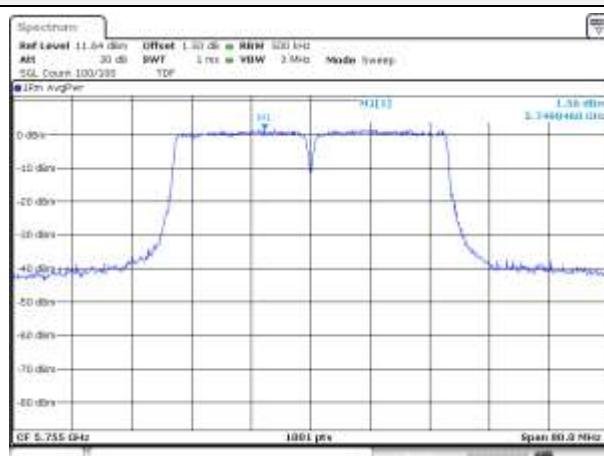
UNII-2C / 802.11n HT40 / 5 590 MHz



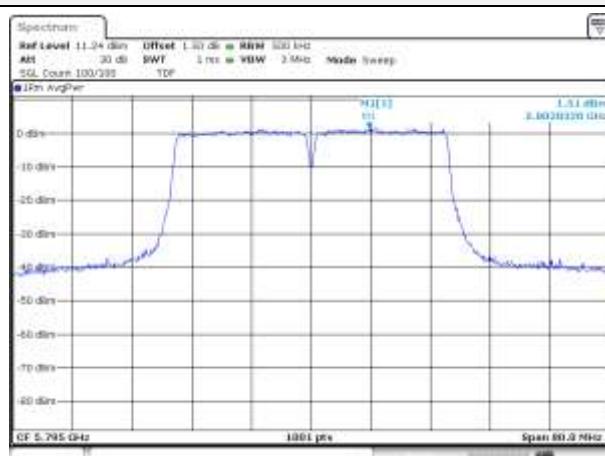
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



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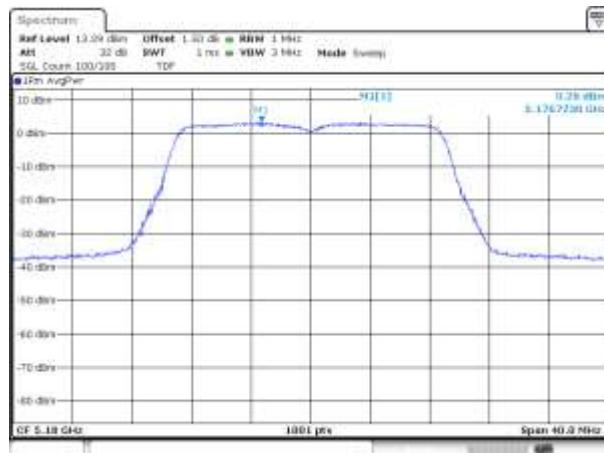
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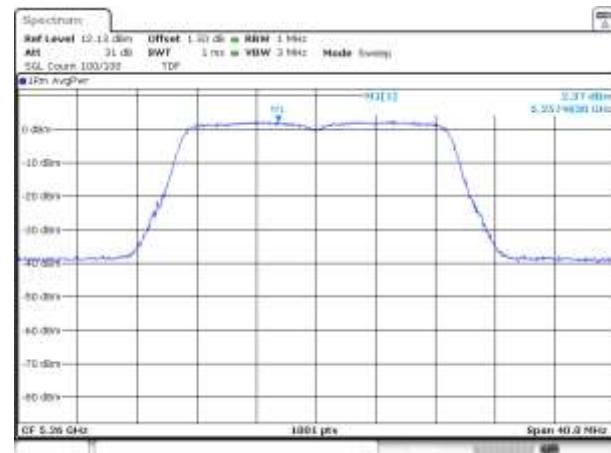
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UNII-1 / 802.11ac VHT20 / 5 180 MHz



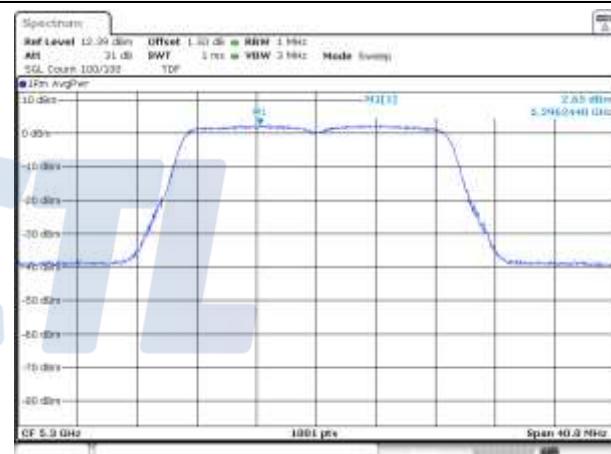
UNII-2A / 802.11ac VHT20 / 5 260 MHz



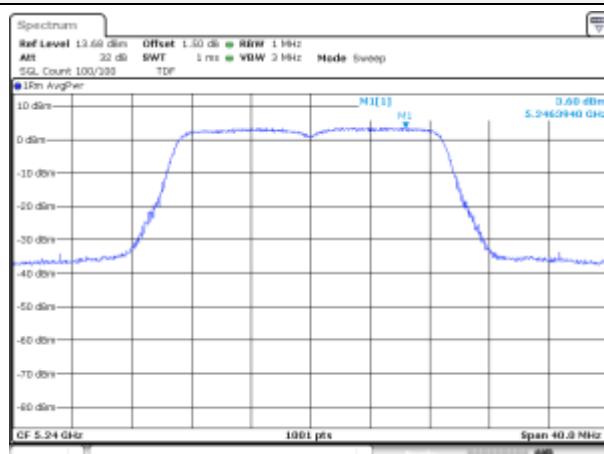
UNII-1 / 802.11ac VHT20 / 5 220 MHz



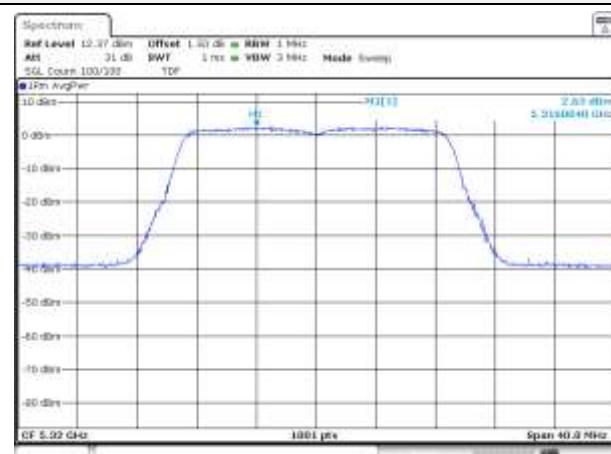
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



UNII-2A / 802.11ac VHT20 / 5 320 MHz

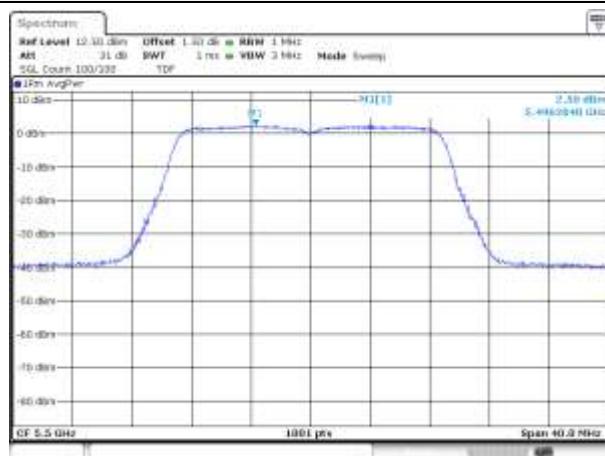
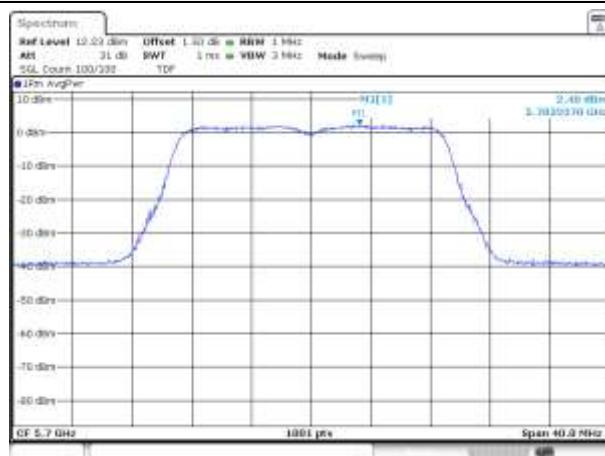


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KCTL**UNII-2C / 802.11ac VHT20 / 5 500 MHz****UNII-2C / 802.11ac VHT20 / 5 700 MHz****UNII-2C / 802.11ac VHT20 / 5 600 MHz****UNII-2C / 802.11ac VHT20 / 5 720 MHz**

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KCTL**UNII-3 / 802.11ac VHT20 / 5 745 MHz****UNII-3 / 802.11ac VHT20 / 5 785 MHz****UNII-3 / 802.11ac VHT20 / 5 825 MHz**

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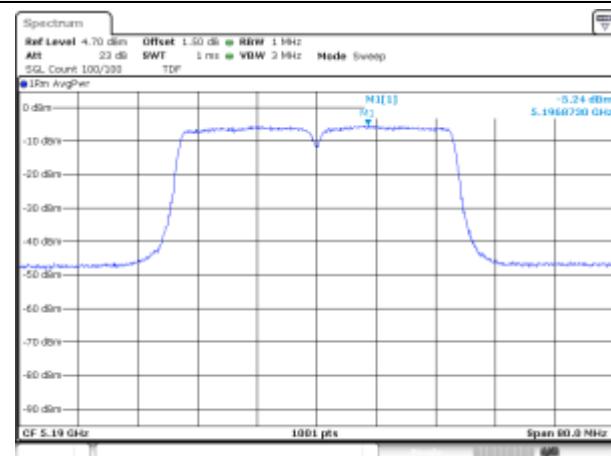
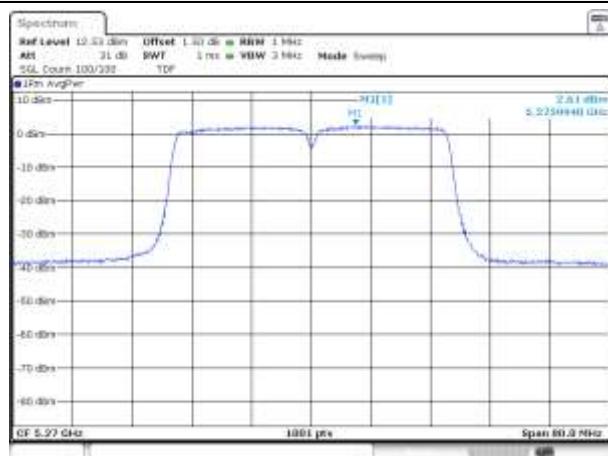
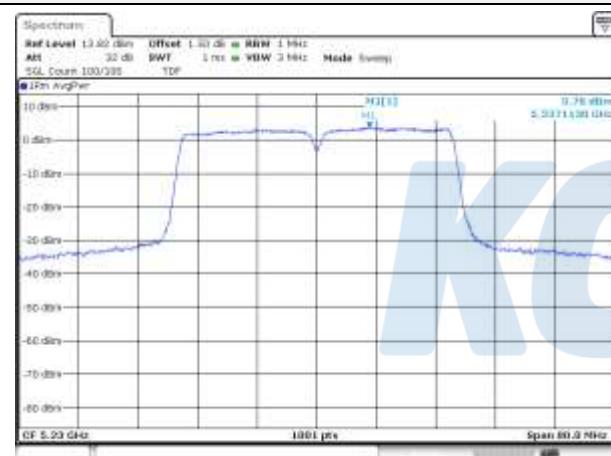
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KCTL**UNII-1 / 802.11ac VHT40 / 5 190 MHz****UNII-2A / 802.11ac VHT40 / 5 270 MHz****UNII-1 / 802.11ac VHT40 / 5 230 MHz****UNII-2A / 802.11ac VHT40 / 5 310 MHz**

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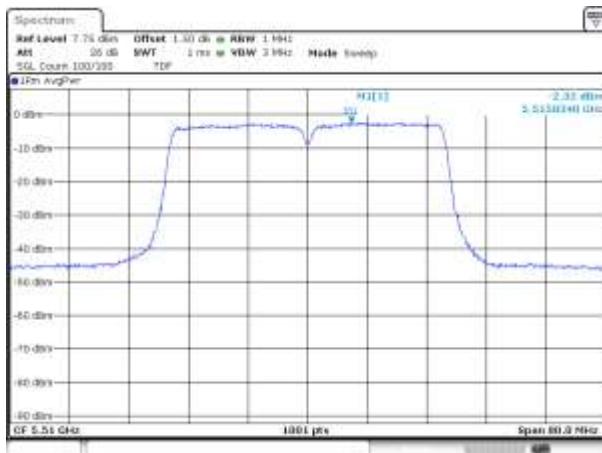
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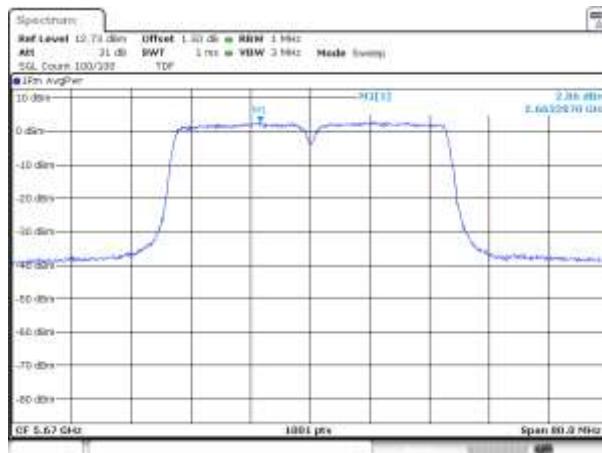
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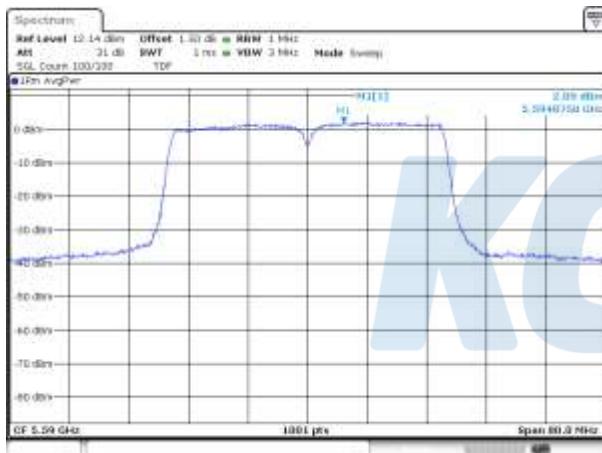
UNII-2C / 802.11ac VHT40 / 5 510 MHz



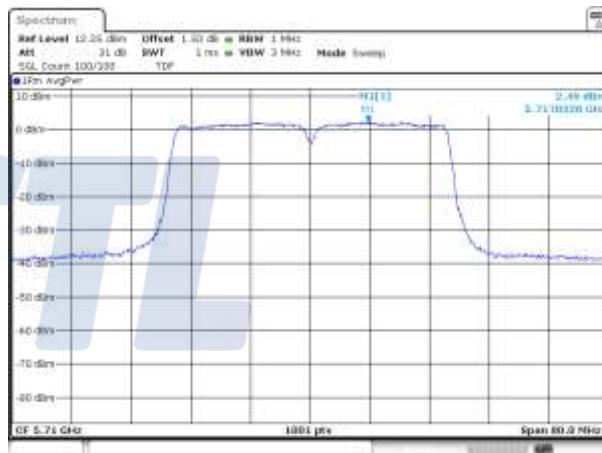
UNII-2C / 802.11ac VHT40 / 5 670 MHz



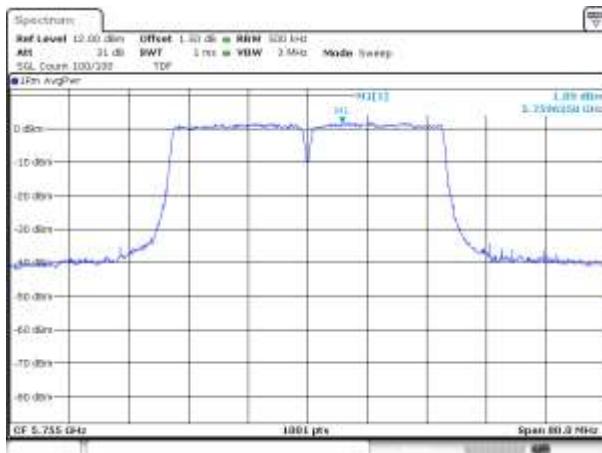
UNII-2C / 802.11ac VHT40 / 5 590 MHz



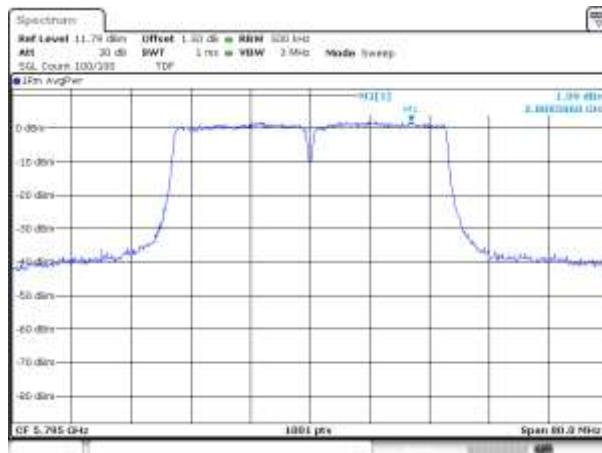
UNII-2C / 802.11ac VHT40 / 5 710 MHz



UNII-3 / 802.11ac VHT40 / 5 755 MHz



UNII-3 / 802.11ac VHT40 / 5 795 MHz



KCTL Inc.

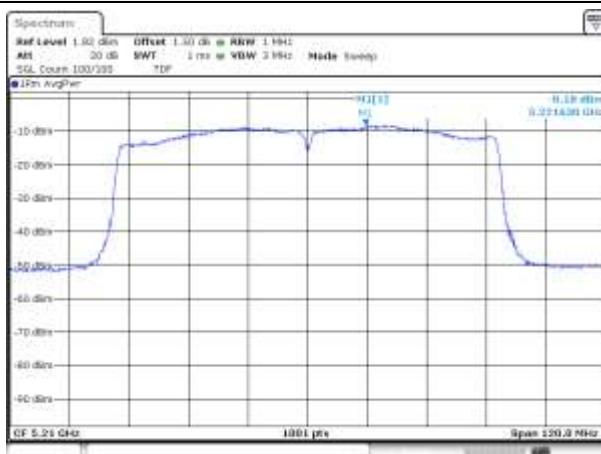
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UNII-1 / 802.11ac VHT80 / 5 210 MHz



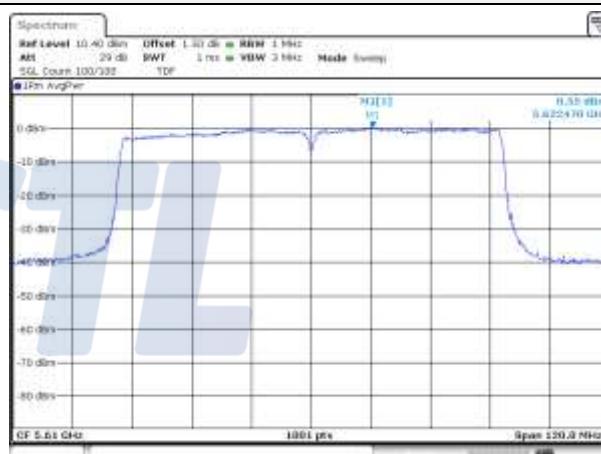
UNII-2A / 802.11ac VHT80 / 5 290 MHz



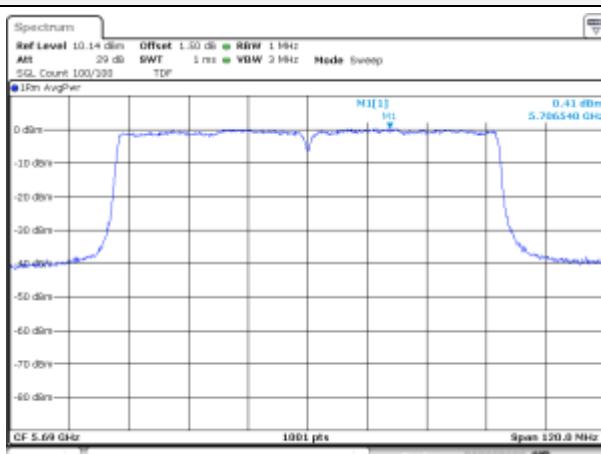
UNII-2C / 802.11ac VHT80 / 5 530 MHz



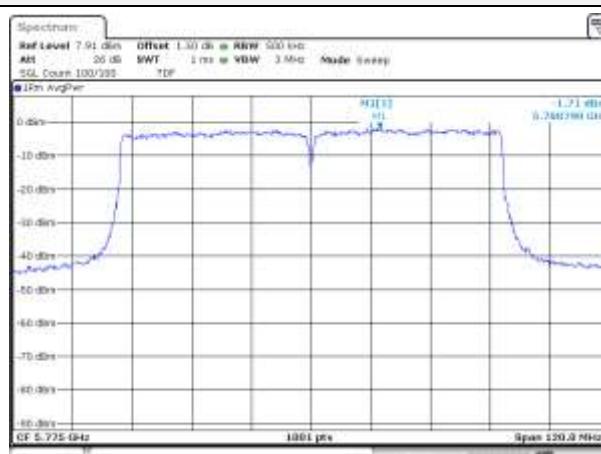
UNII-2C / 802.11ac VHT80 / 5 610 MHz



UNII-2C / 802.11ac VHT80 / 5 690 MHz



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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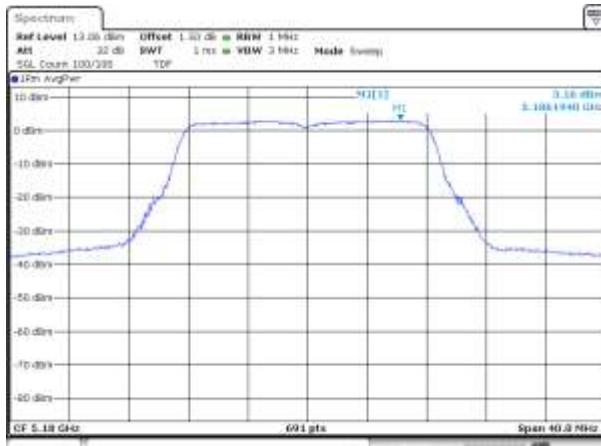
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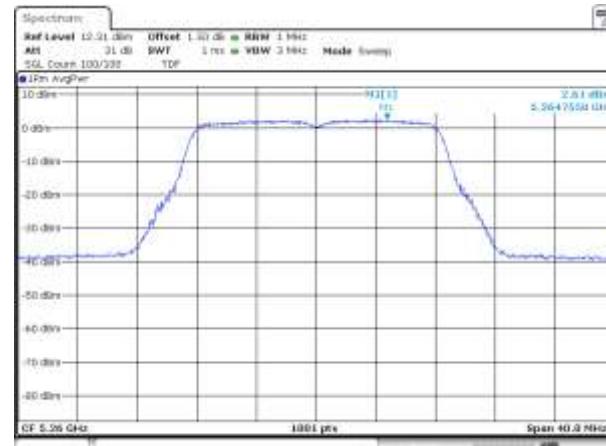
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4TX MIMO ANT 1

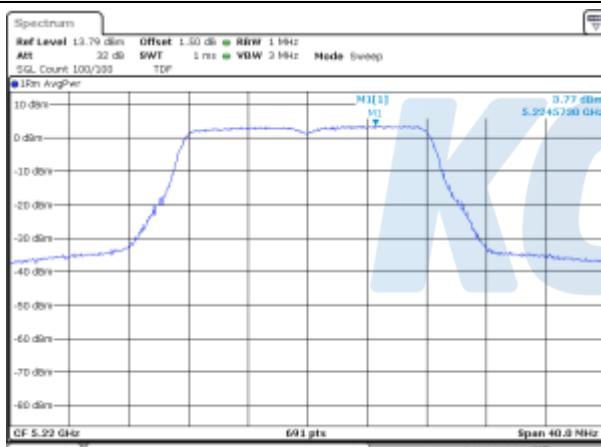
UNII-1 / 802.11a / 5 180 MHz



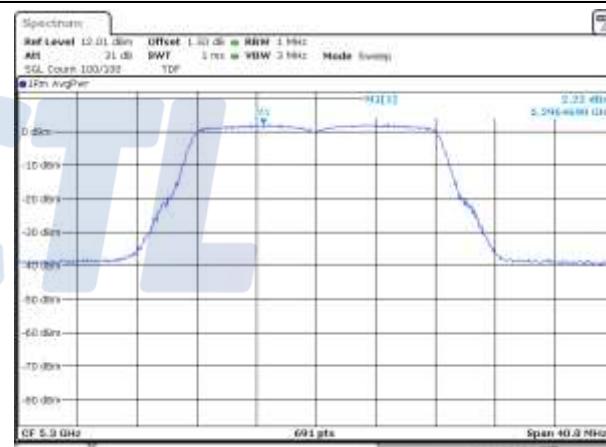
UNII-2A / 802.11a / 5 260 MHz



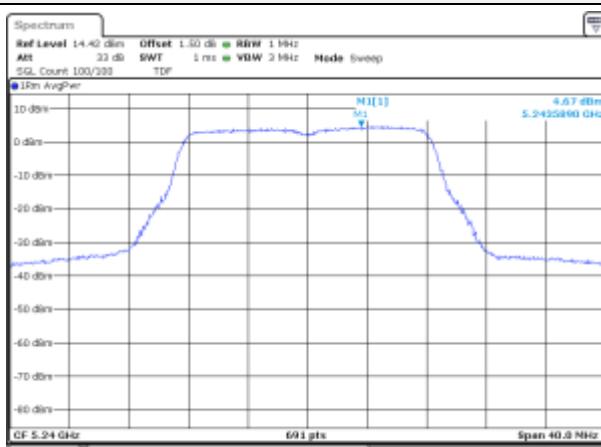
UNII-1 / 802.11a / 5 220 MHz



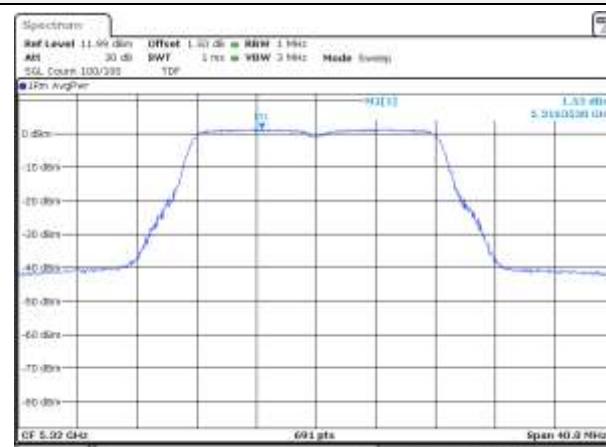
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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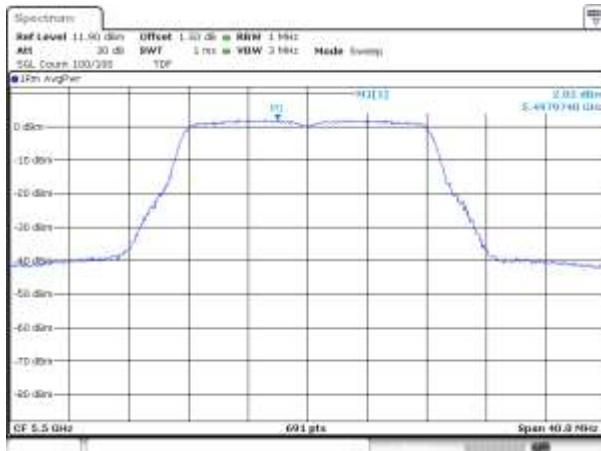
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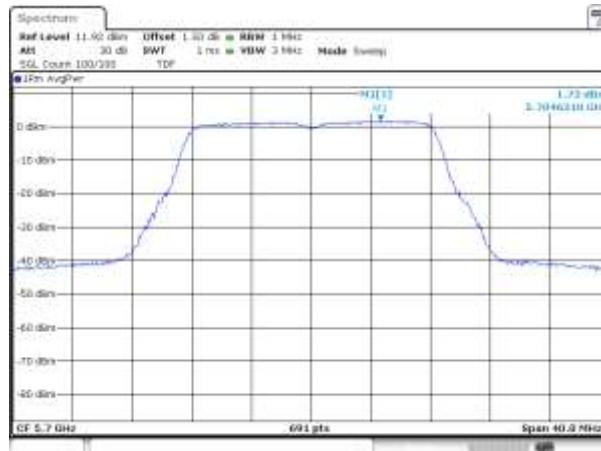
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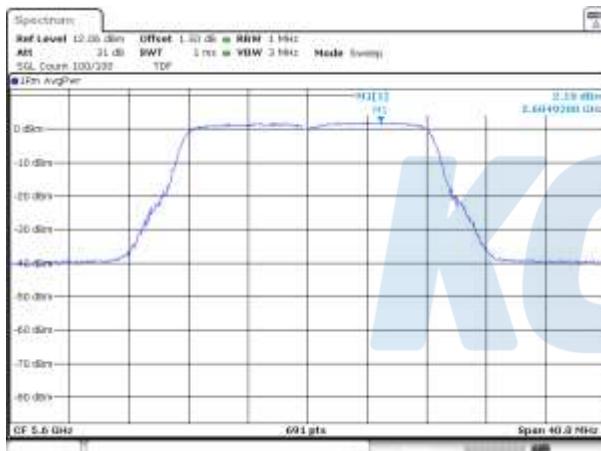
UNII-2C / 802.11a / 5 500 MHz



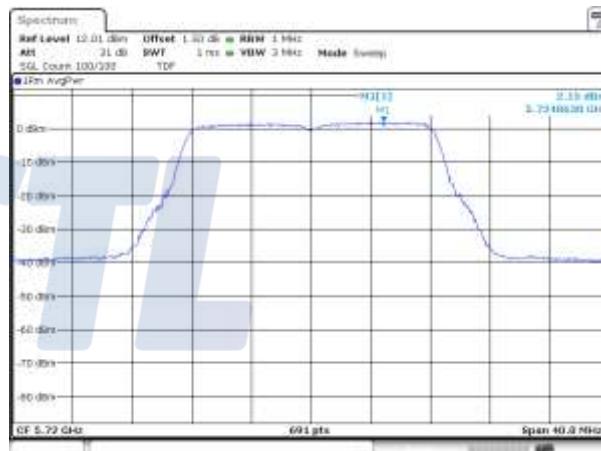
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz

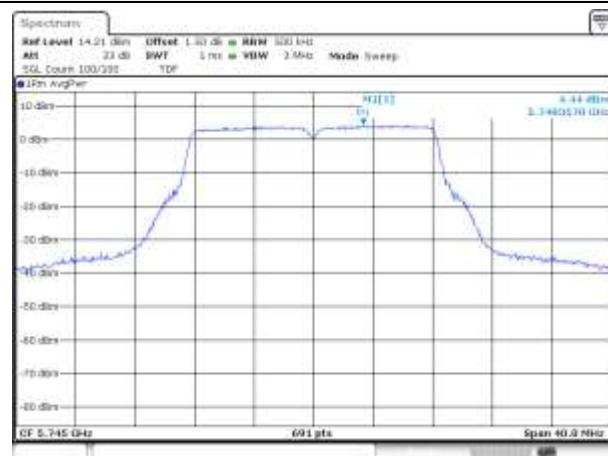


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KCTL**UNII-3 / 802.11a / 5 745 MHz****UNII-3 / 802.11a / 5 785 MHz****UNII-3 / 802.11a / 5 825 MHz**

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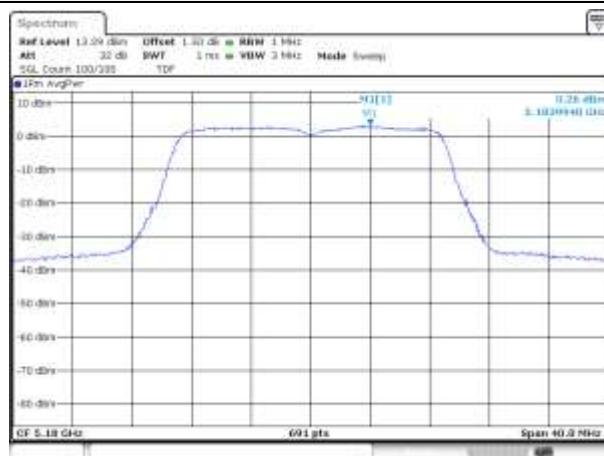
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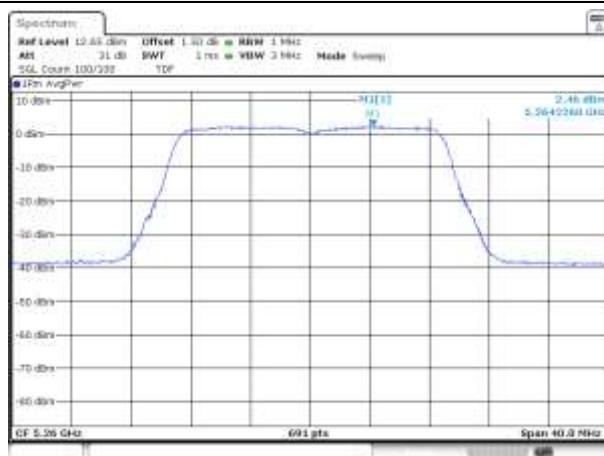
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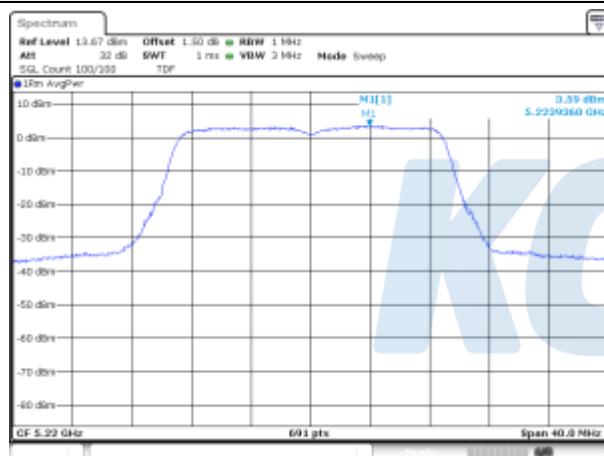
UNII-1 / 802.11n HT20 / 5 180 MHz



UNII-2A / 802.11n HT20 / 5 260 MHz



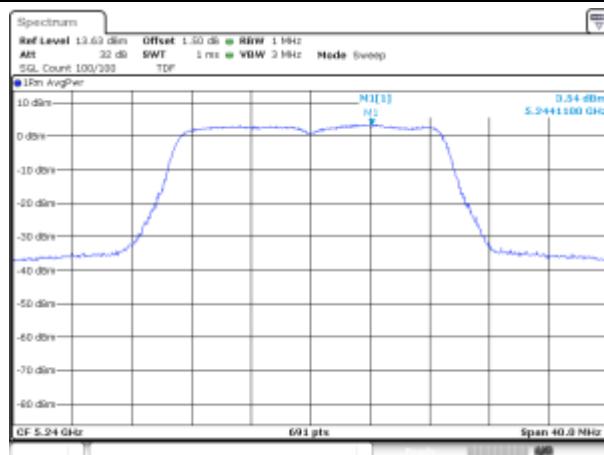
UNII-1 / 802.11n HT20 / 5 220 MHz



UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



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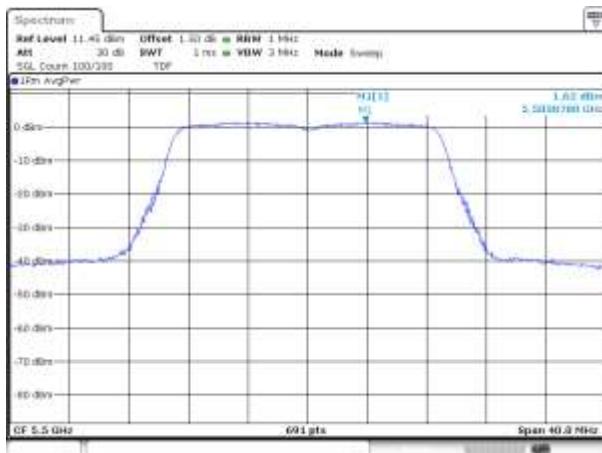
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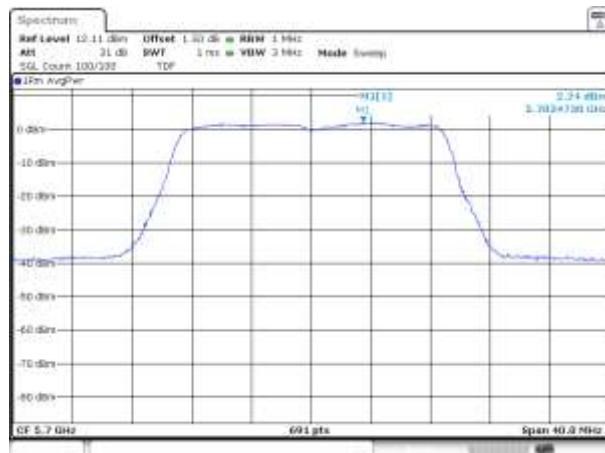
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UNII-2C / 802.11n HT20 / 5 500 MHz



UNII-2C / 802.11n HT20 / 5 700 MHz



UNII-2C / 802.11n HT20 / 5 600 MHz



UNII-2C / 802.11n HT20 / 5 720 MHz

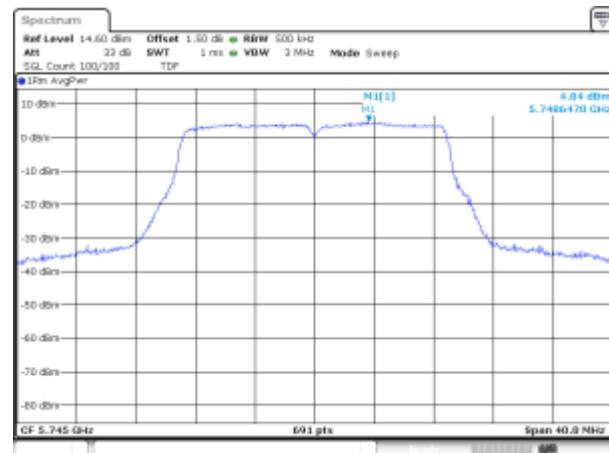


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KCTL**UNII-3 / 802.11n HT20 / 5 745 MHz****UNII-3 / 802.11n HT20 / 5 785 MHz****UNII-3 / 802.11n HT20 / 5 825 MHz**

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UNII-1 / 802.11n HT40 / 5 190 MHz



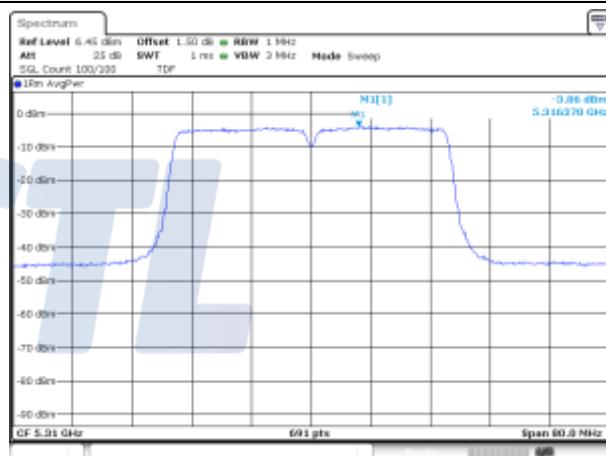
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



UNII-2A / 802.11n HT40 / 5 310 MHz



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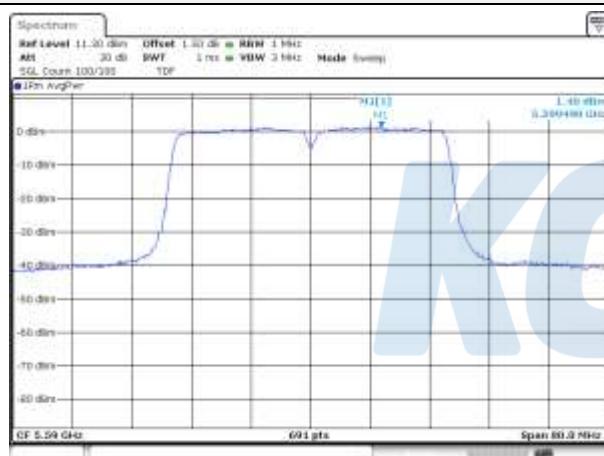
UNII-2C / 802.11n HT40 / 5 510 MHz



UNII-2C / 802.11n HT40 / 5 670 MHz



UNII-2C / 802.11n HT40 / 5 590 MHz



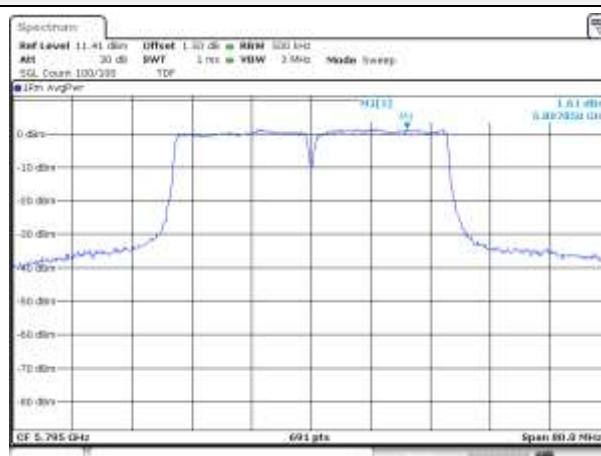
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



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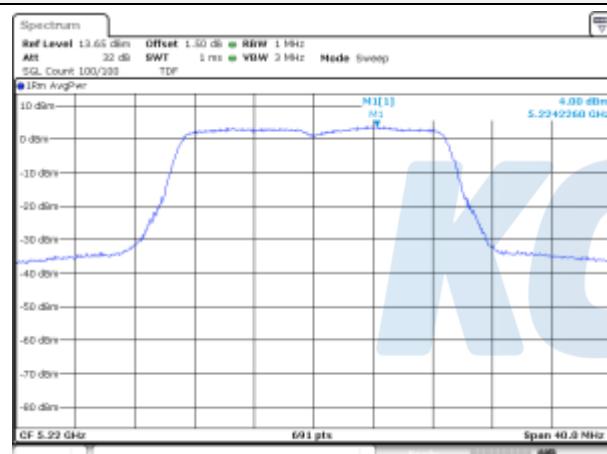
UNII-1 / 802.11ac VHT20 / 5 180 MHz



UNII-2A / 802.11ac VHT20 / 5 260 MHz



UNII-1 / 802.11ac VHT20 / 5 220 MHz



UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



UNII-2A / 802.11ac VHT20 / 5 320 MHz



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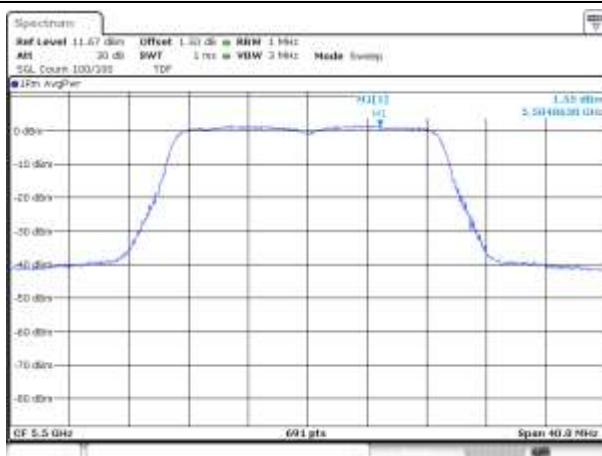
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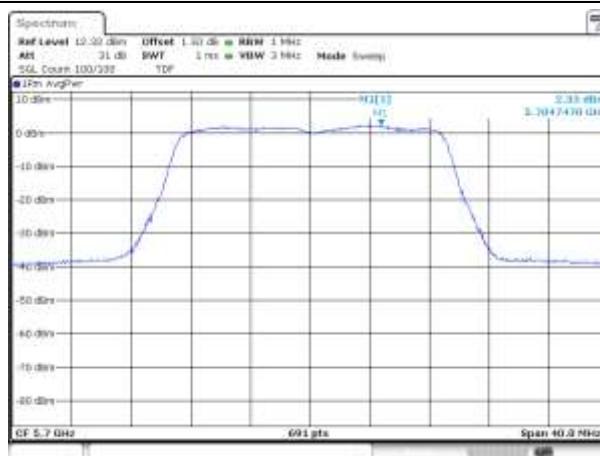
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UNII-2C / 802.11ac VHT20 / 5 500 MHz



UNII-2C / 802.11ac VHT20 / 5 700 MHz



UNII-2C / 802.11ac VHT20 / 5 600 MHz



UNII-2C / 802.11ac VHT20 / 5 720 MHz

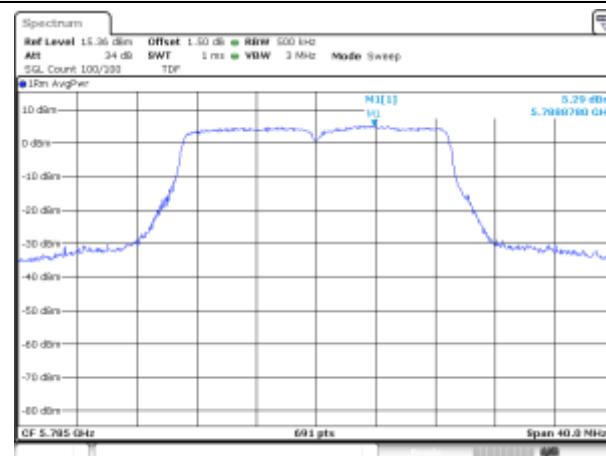


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KCTL**UNII-3 / 802.11ac VHT20 / 5 745 MHz****UNII-3 / 802.11ac VHT20 / 5 785 MHz****UNII-3 / 802.11ac VHT20 / 5 825 MHz**

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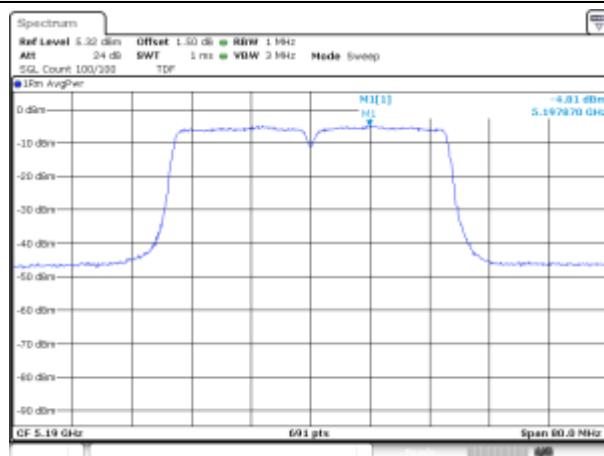
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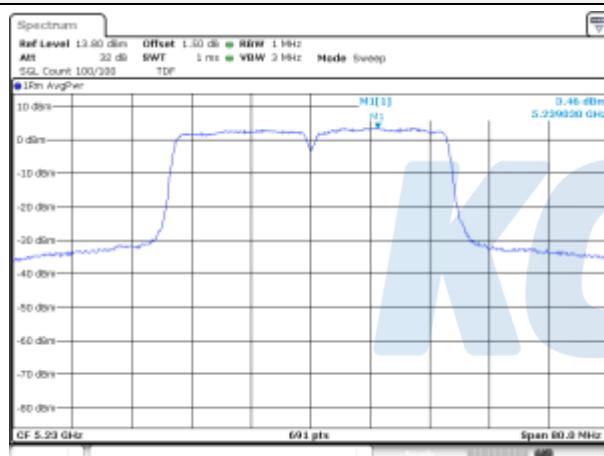
UNII-1 / 802.11ac VHT40 / 5 190 MHz



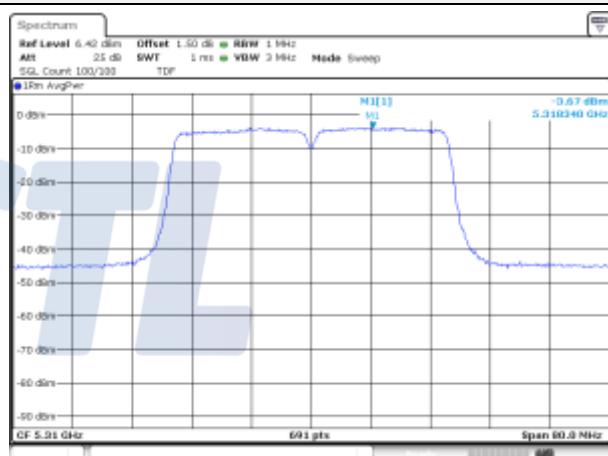
UNII-2A / 802.11ac VHT40 / 5 270 MHz



UNII-1 / 802.11ac VHT40 / 5 230 MHz



UNII-2A / 802.11ac VHT40 / 5 310 MHz



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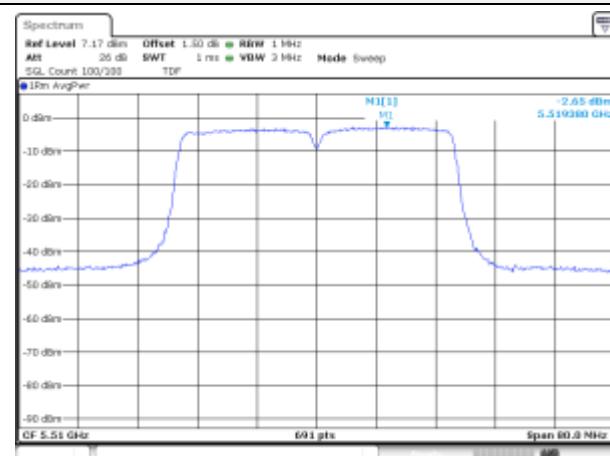
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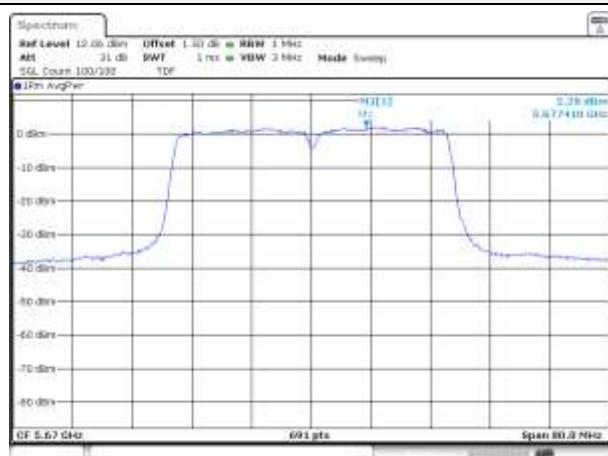
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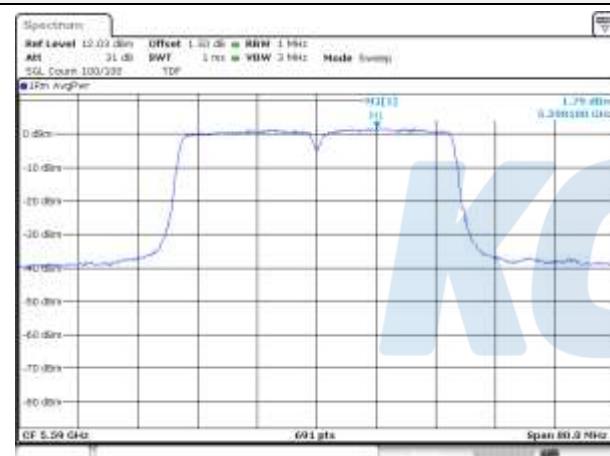
UNII-2C / 802.11ac VHT40 / 5 510 MHz



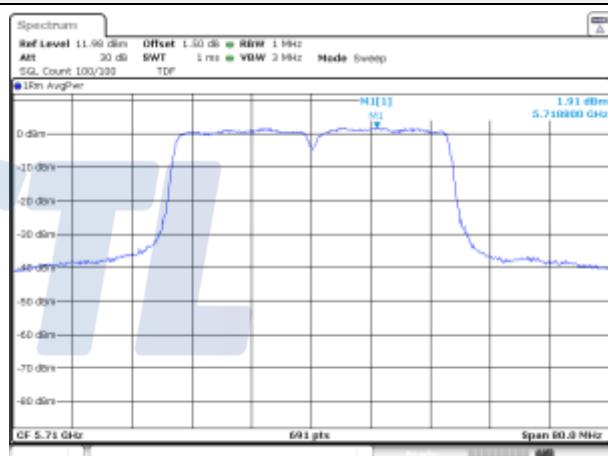
UNII-2C / 802.11ac VHT40 / 5 670 MHz



UNII-2C / 802.11ac VHT40 / 5 590 MHz



UNII-2C / 802.11ac VHT40 / 5 710 MHz



UNII-3 / 802.11ac VHT40 / 5 755 MHz



UNII-3 / 802.11ac VHT40 / 5 795 MHz



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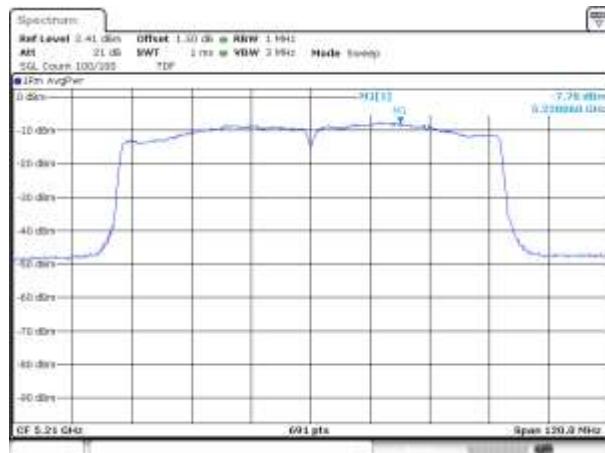
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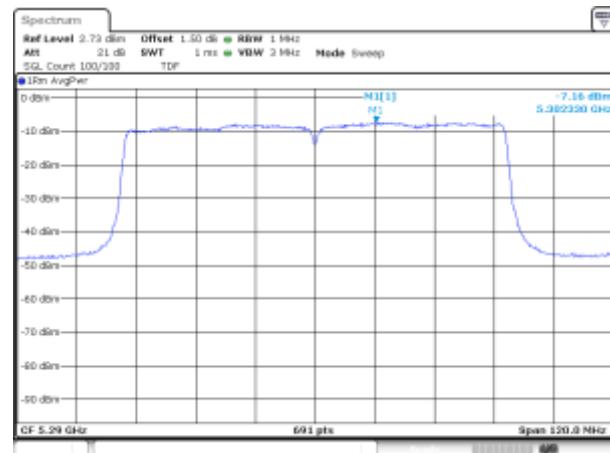
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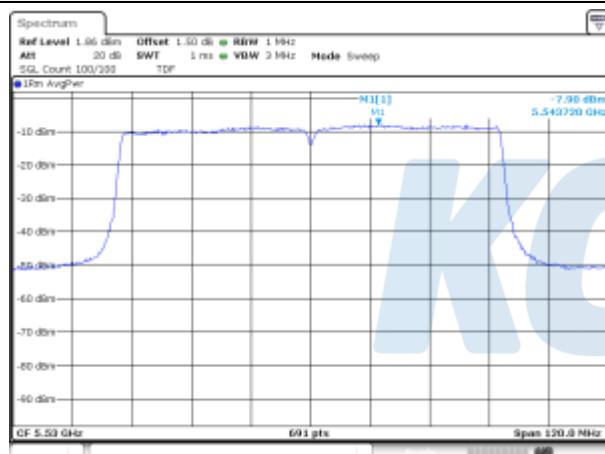
UNII-1 / 802.11ac VHT80 / 5 210 MHz



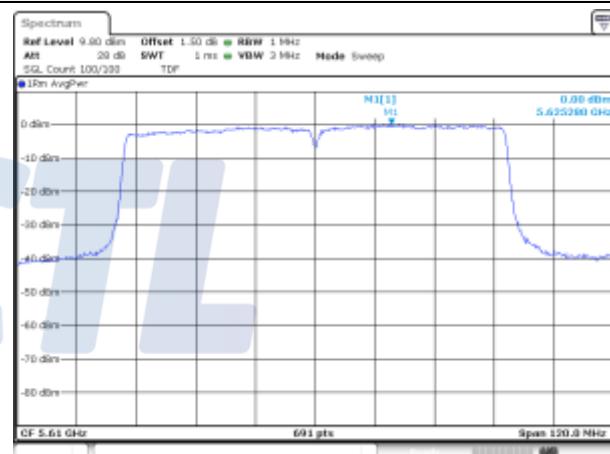
UNII-2A / 802.11ac VHT80 / 5 290 MHz



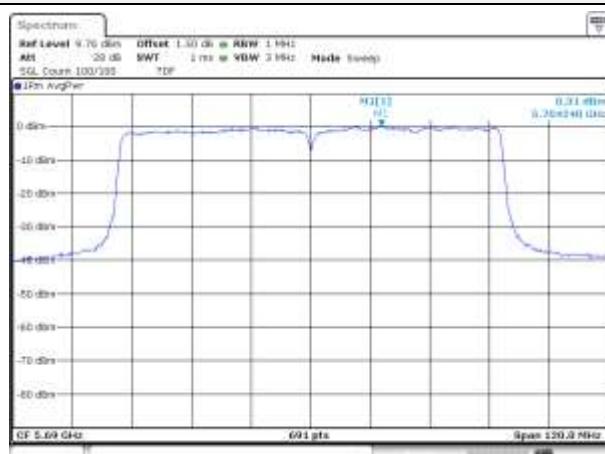
UNII-2C / 802.11ac VHT80 / 5 530 MHz



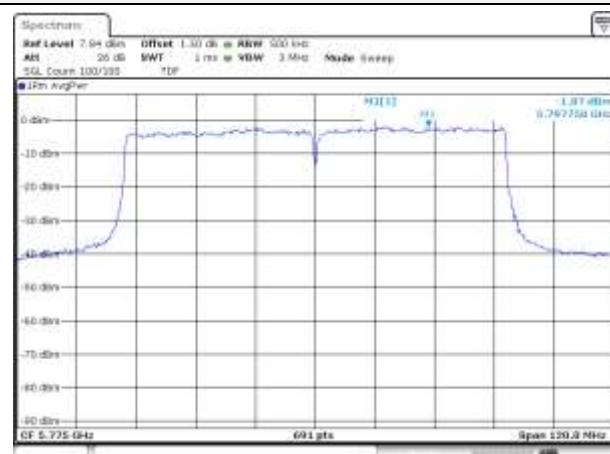
UNII-2C / 802.11ac VHT80 / 5 610 MHz



UNII-2C / 802.11ac VHT80 / 5 690 MHz



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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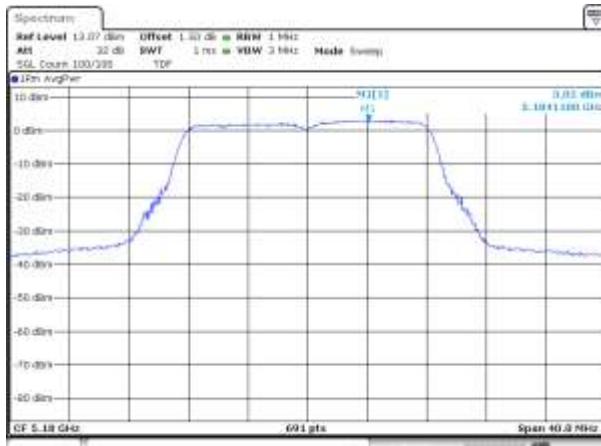
KR20-SRF0030-D

Page (226) of (1046)

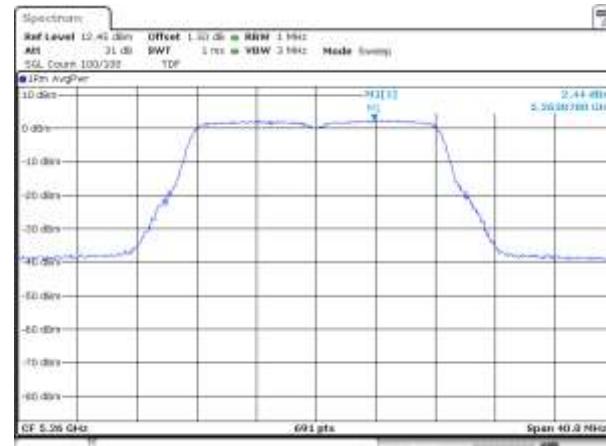
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4TX MIMO ANT 2

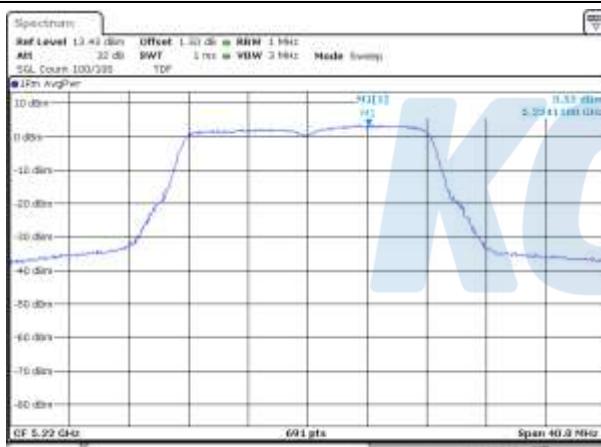
UNII-1 / 802.11a / 5 180 MHz



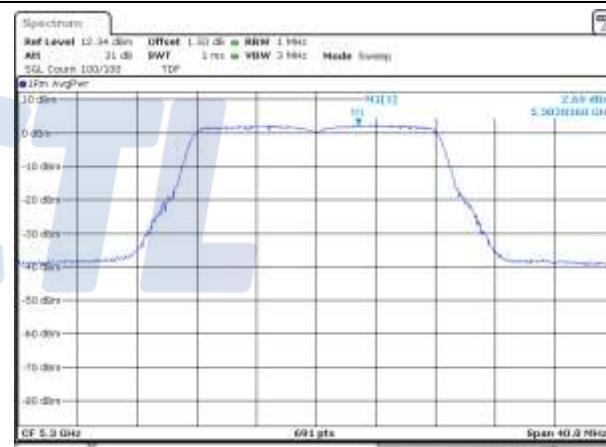
UNII-2A / 802.11a / 5 260 MHz



UNII-1 / 802.11a / 5 220 MHz



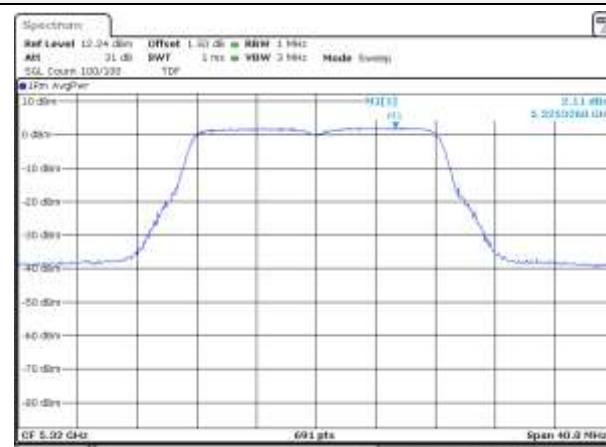
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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KCTL-TIR001-003/2

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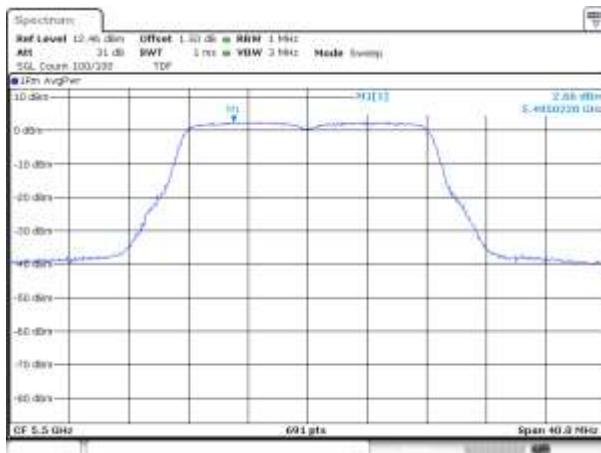
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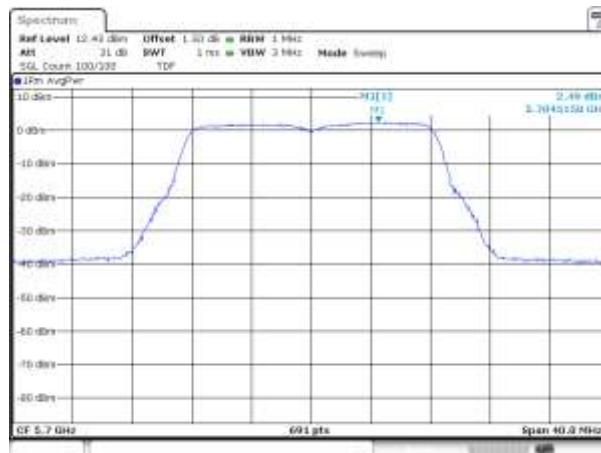
Page (227) of (1046)

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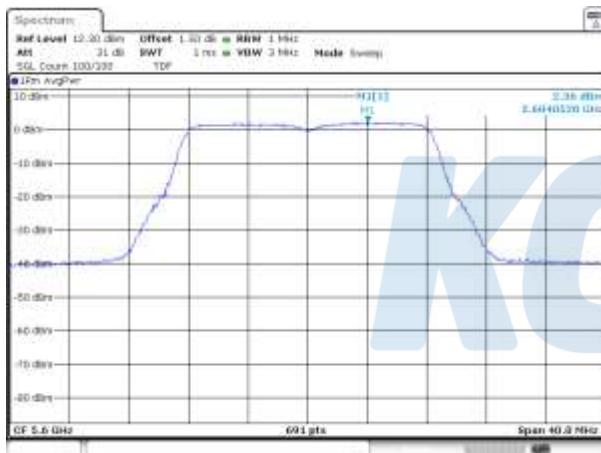
UNII-2C / 802.11a / 5 500 MHz



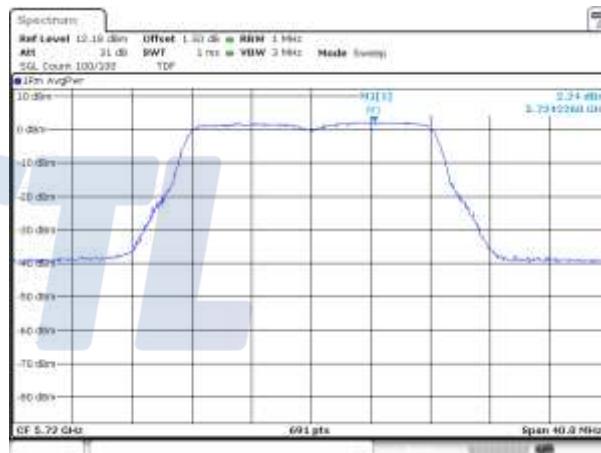
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz

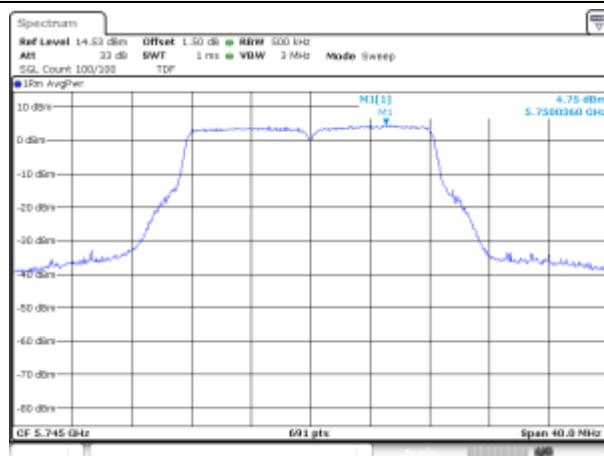
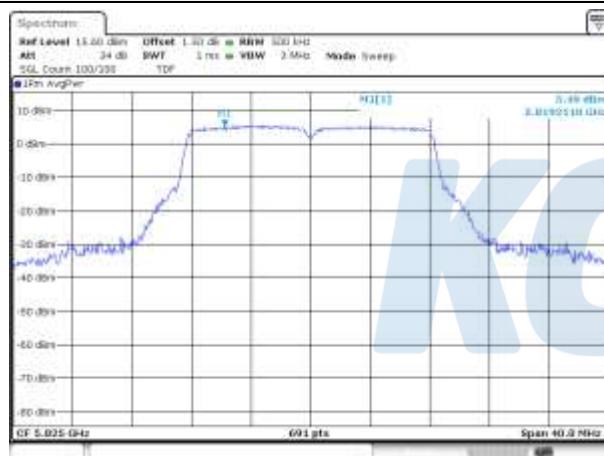


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KCTL**UNII-3 / 802.11a / 5 745 MHz****UNII-3 / 802.11a / 5 785 MHz****UNII-3 / 802.11a / 5 825 MHz**

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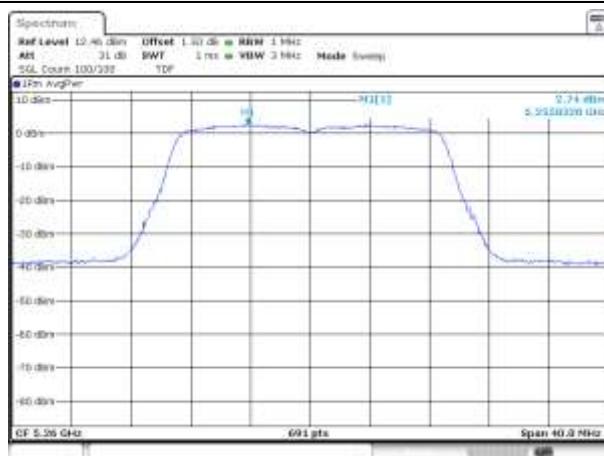
Page (229) of (1046)

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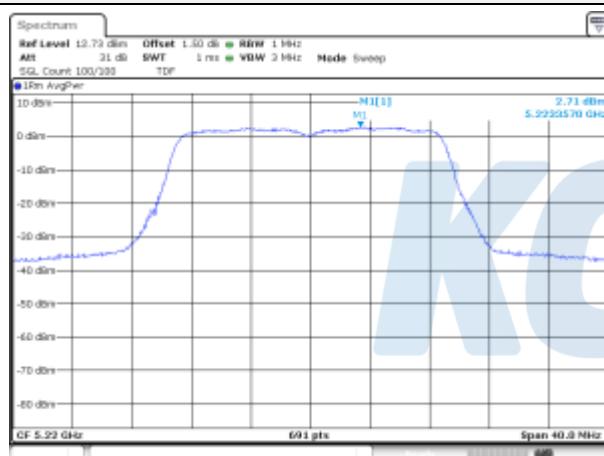
UNII-1 / 802.11n HT20 / 5 180 MHz



UNII-2A / 802.11n HT20 / 5 260 MHz



UNII-1 / 802.11n HT20 / 5 220 MHz



UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



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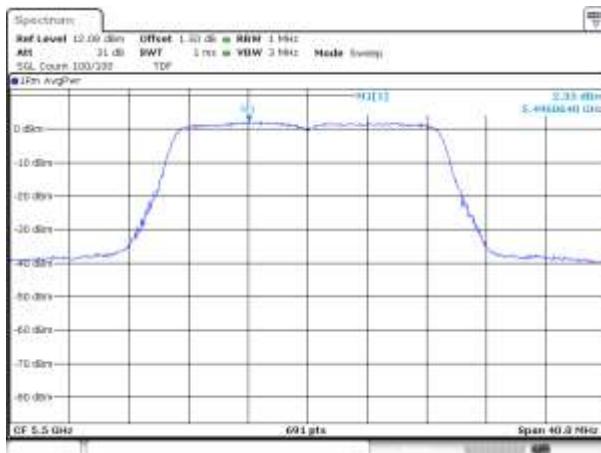
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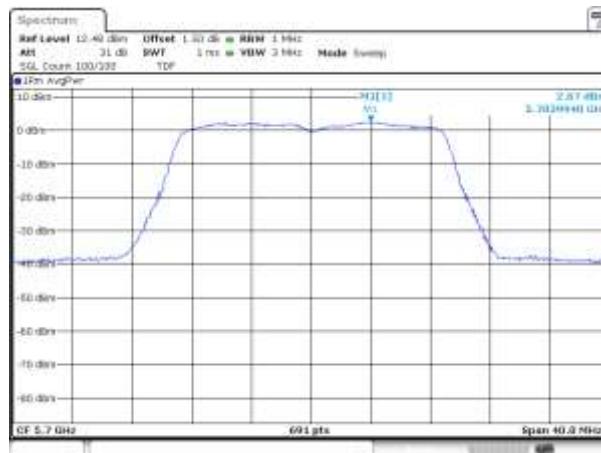
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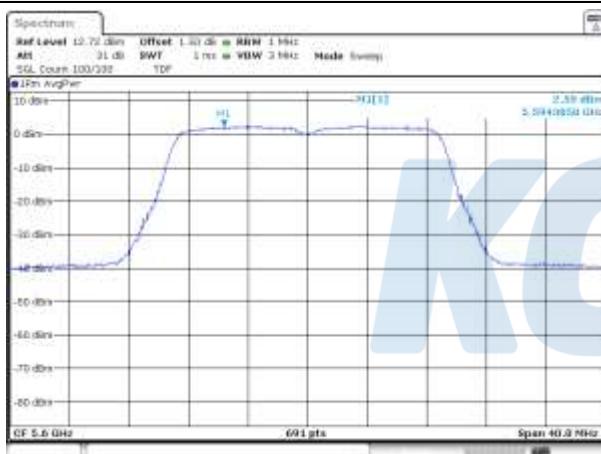
UNII-2C / 802.11n HT20 / 5 500 MHz



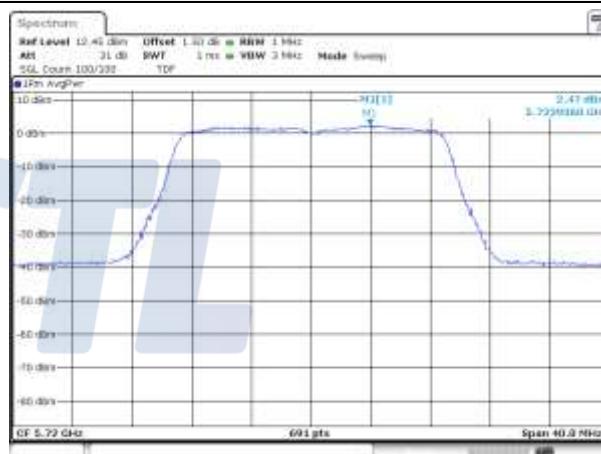
UNII-2C / 802.11n HT20 / 5 700 MHz



UNII-2C / 802.11n HT20 / 5 600 MHz



UNII-2C / 802.11n HT20 / 5 720 MHz

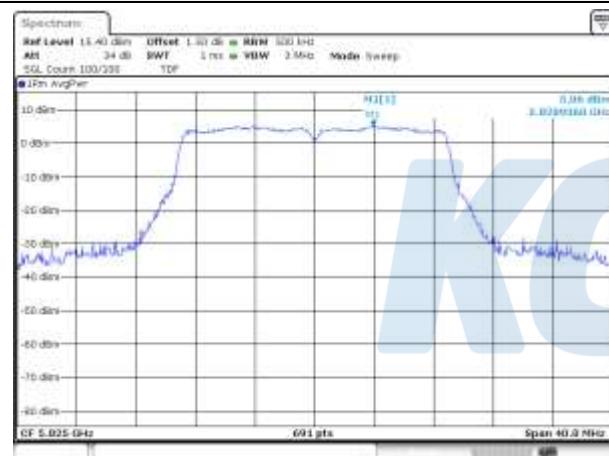


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KCTL**UNII-3 / 802.11n HT20 / 5 745 MHz****UNII-3 / 802.11n HT20 / 5 785 MHz****UNII-3 / 802.11n HT20 / 5 825 MHz**

-

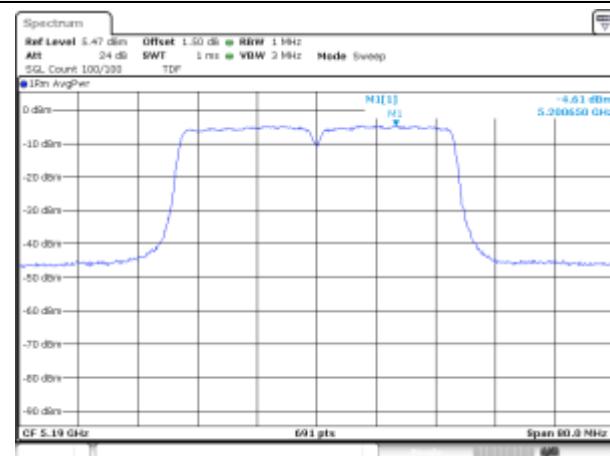
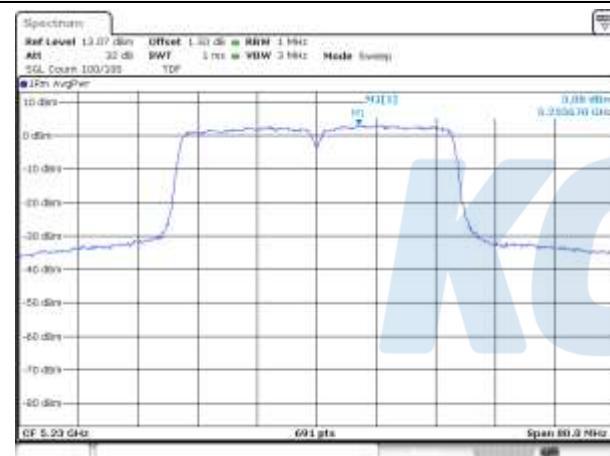
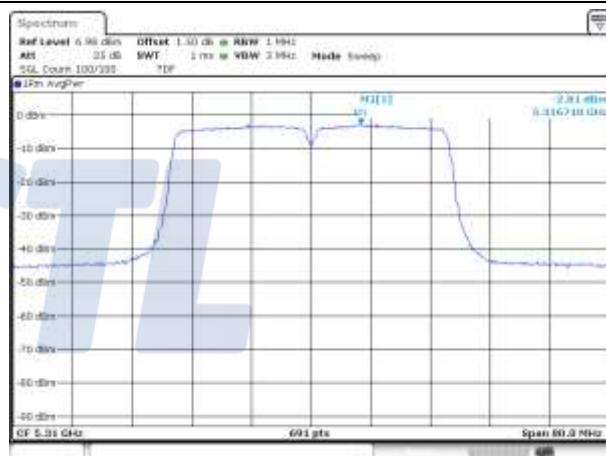
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KCTL**UNII-1 / 802.11n HT40 / 5 190 MHz****UNII-2A / 802.11n HT40 / 5 270 MHz****UNII-1 / 802.11n HT40 / 5 230 MHz****UNII-2A / 802.11n HT40 / 5 310 MHz**

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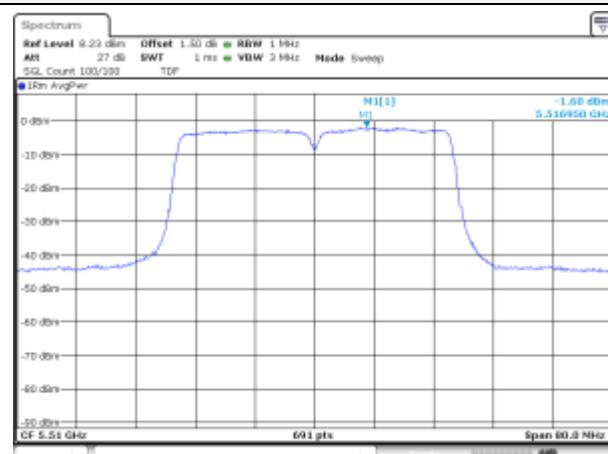
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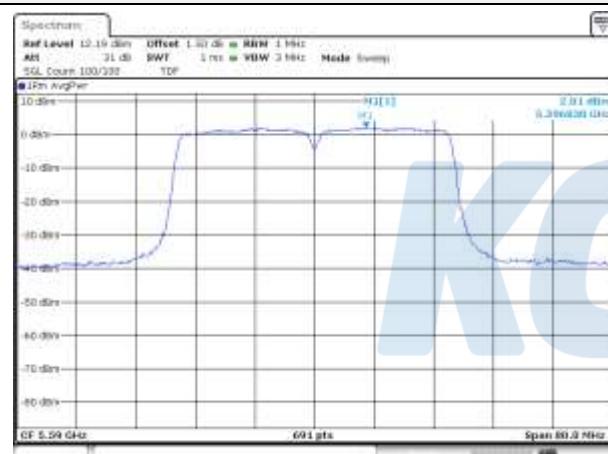
UNII-2C / 802.11n HT40 / 5 510 MHz



UNII-2C / 802.11n HT40 / 5 670 MHz



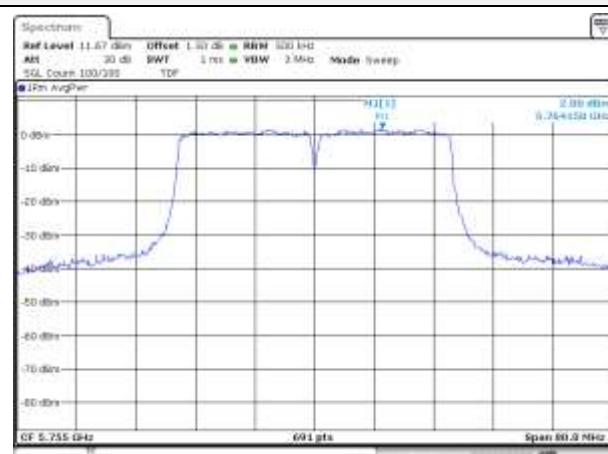
UNII-2C / 802.11n HT40 / 5 590 MHz



UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



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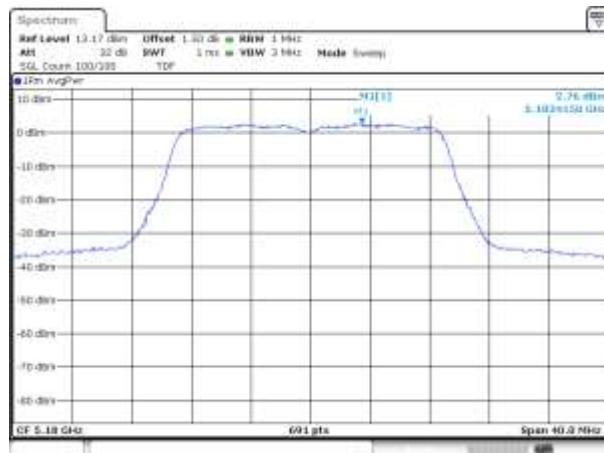
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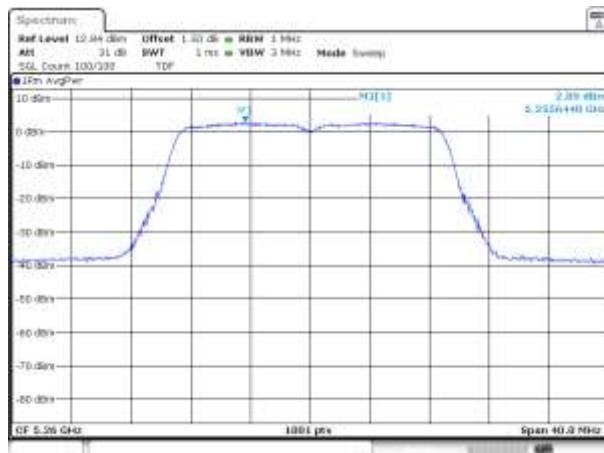
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UNII-1 / 802.11ac VHT20 / 5 180 MHz



UNII-2A / 802.11ac VHT20 / 5 260 MHz



UNII-1 / 802.11ac VHT20 / 5 220 MHz



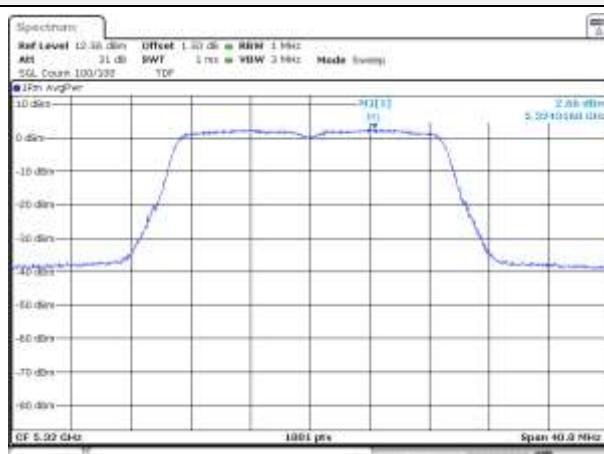
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



UNII-2A / 802.11ac VHT20 / 5 320 MHz



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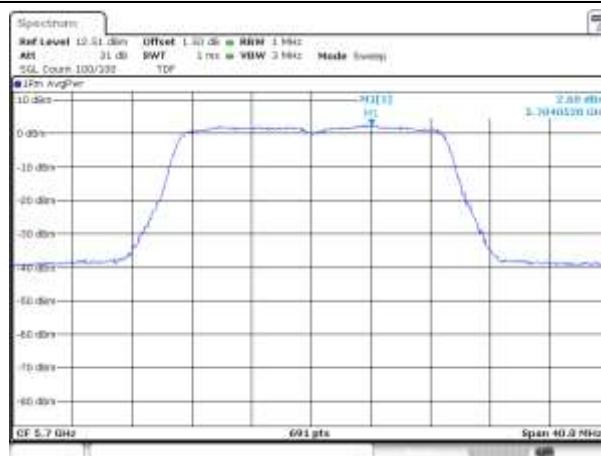
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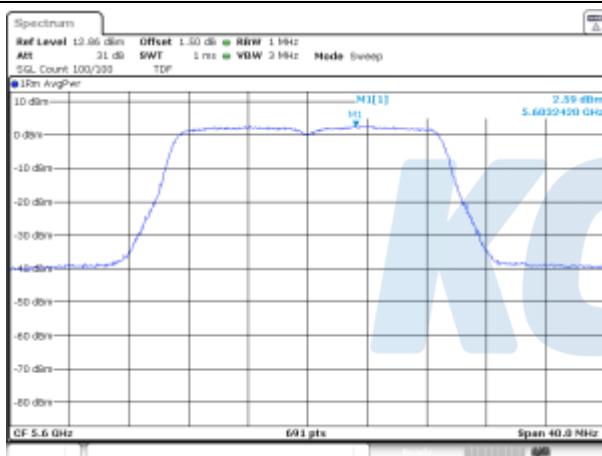
UNII-2C / 802.11ac VHT20 / 5 500 MHz



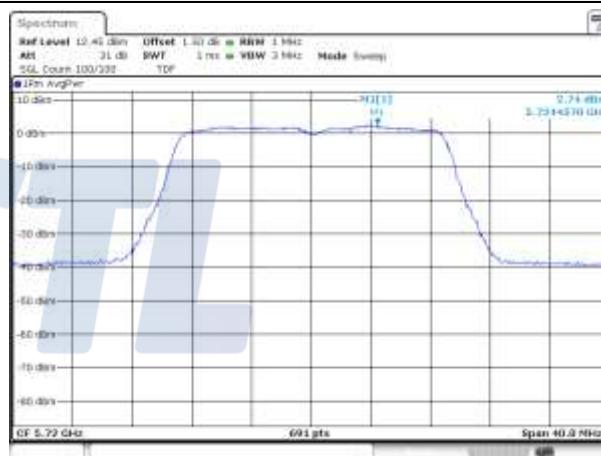
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UNII-2C / 802.11ac VHT20 / 5 600 MHz



UNII-2C / 802.11ac VHT20 / 5 720 MHz

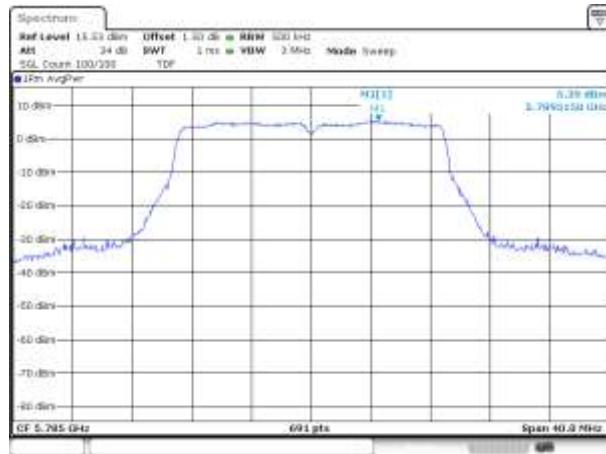
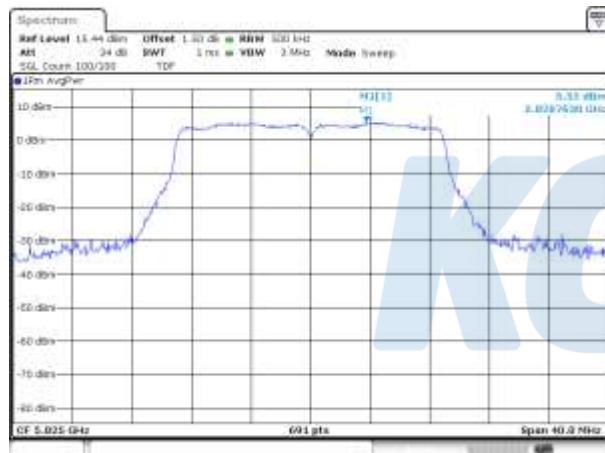


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KCTL**UNII-3 / 802.11ac VHT20 / 5 745 MHz****UNII-3 / 802.11ac VHT20 / 5 785 MHz****UNII-3 / 802.11ac VHT20 / 5 825 MHz**

-

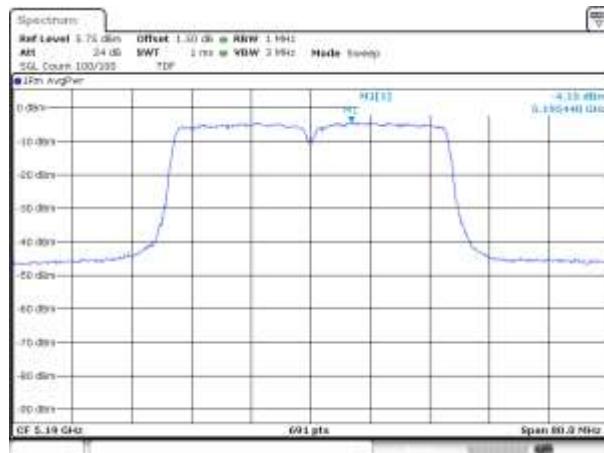
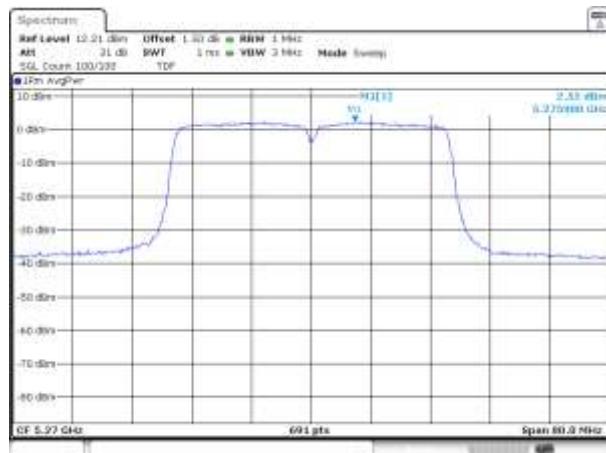
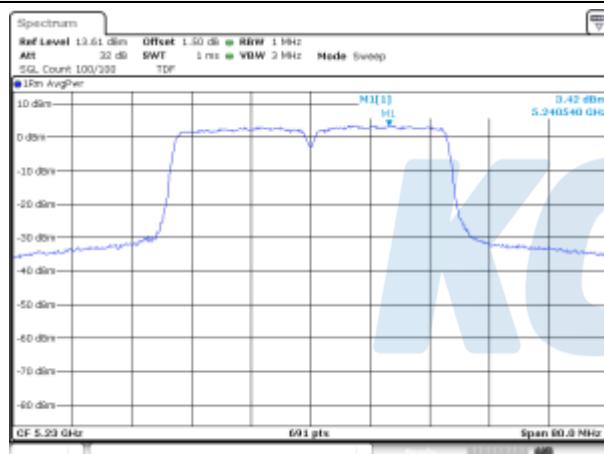
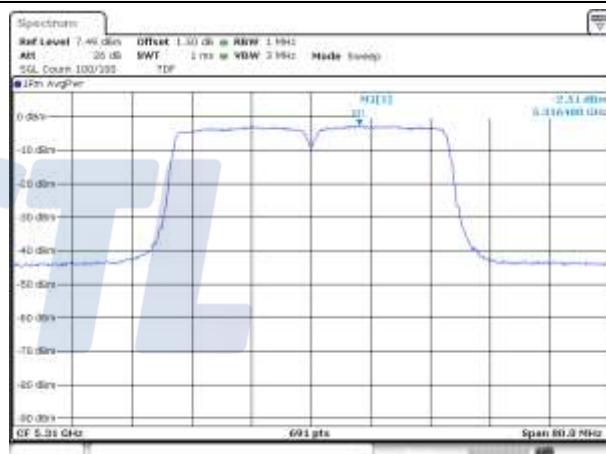
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KCTL**UNII-1 / 802.11ac VHT40 / 5 190 MHz****UNII-2A / 802.11ac VHT40 / 5 270 MHz****UNII-1 / 802.11ac VHT40 / 5 230 MHz****UNII-2A / 802.11ac VHT40 / 5 310 MHz**

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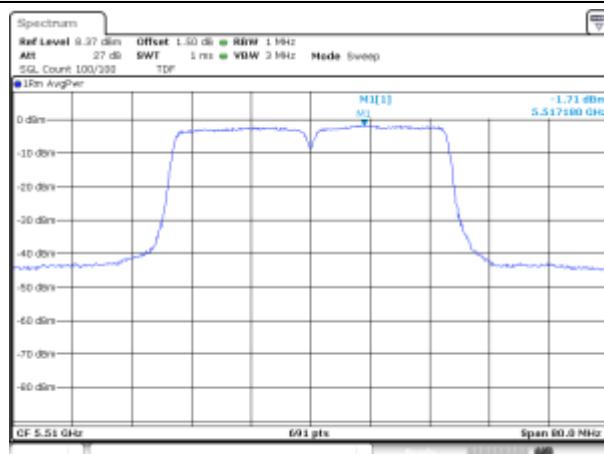
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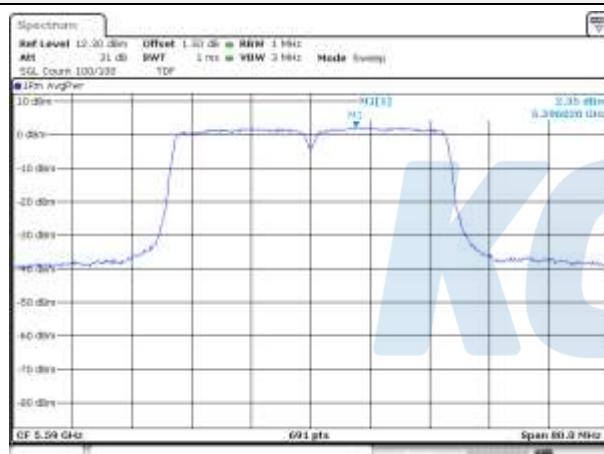
UNII-2C / 802.11ac VHT40 / 5 510 MHz



UNII-2C / 802.11ac VHT40 / 5 670 MHz



UNII-2C / 802.11ac VHT40 / 5 590 MHz



UNII-2C / 802.11ac VHT40 / 5 710 MHz



UNII-3 / 802.11ac VHT40 / 5 755 MHz



UNII-3 / 802.11ac VHT40 / 5 795 MHz



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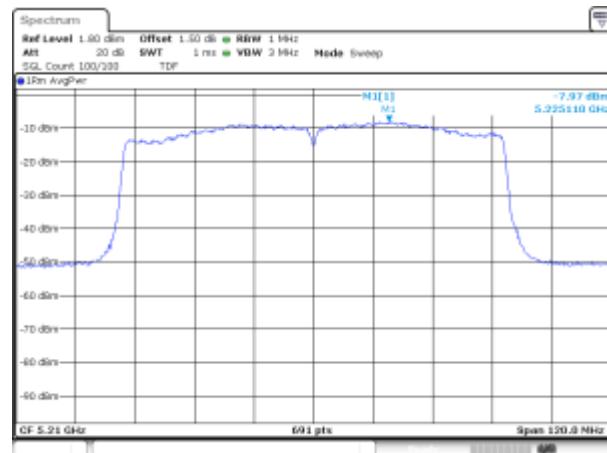
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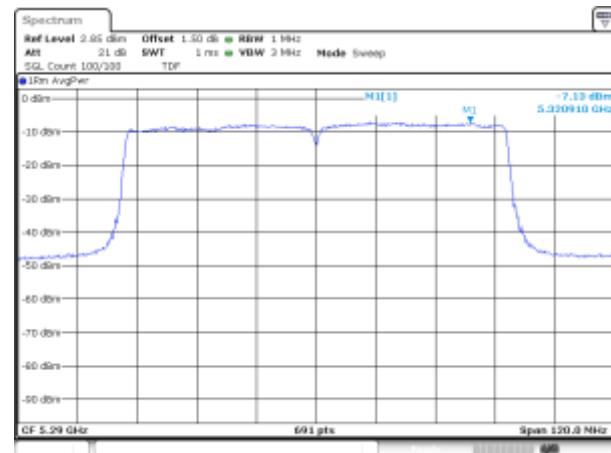
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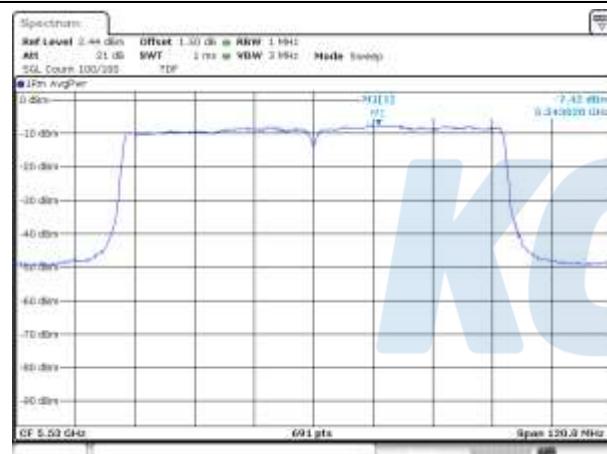
UNII-1 / 802.11ac VHT80 / 5 210 MHz



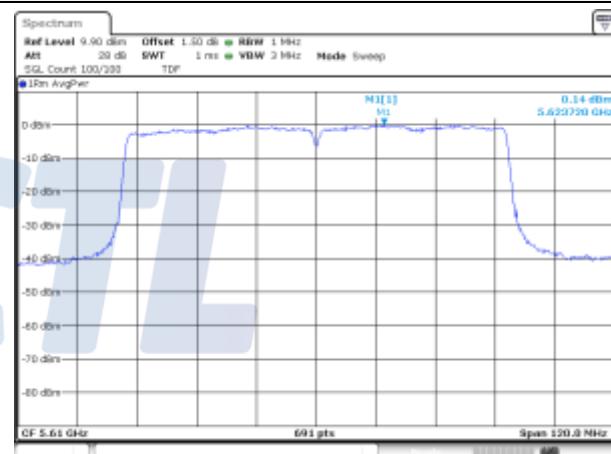
UNII-2A / 802.11ac VHT80 / 5 290 MHz



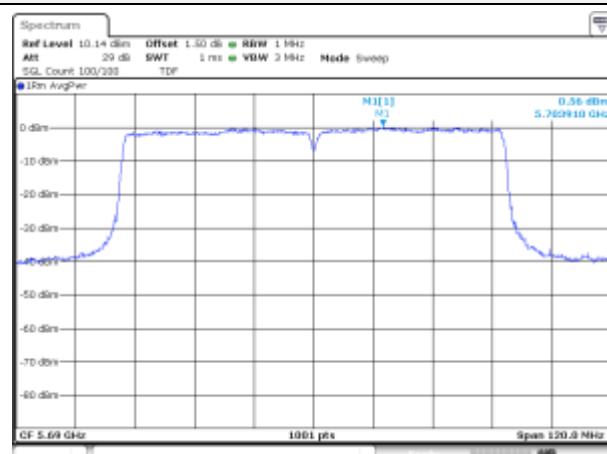
UNII-2C / 802.11ac VHT80 / 5 530 MHz



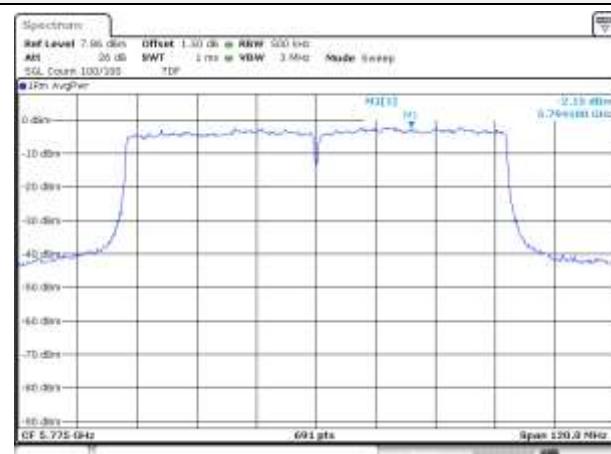
UNII-2C / 802.11ac VHT80 / 5 610 MHz



UNII-2C / 802.11ac VHT80 / 5 690 MHz



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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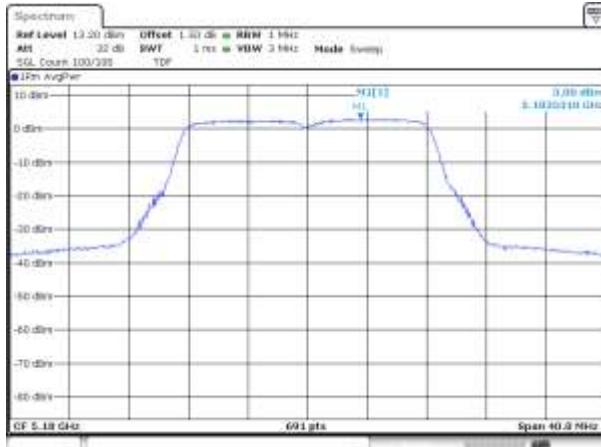
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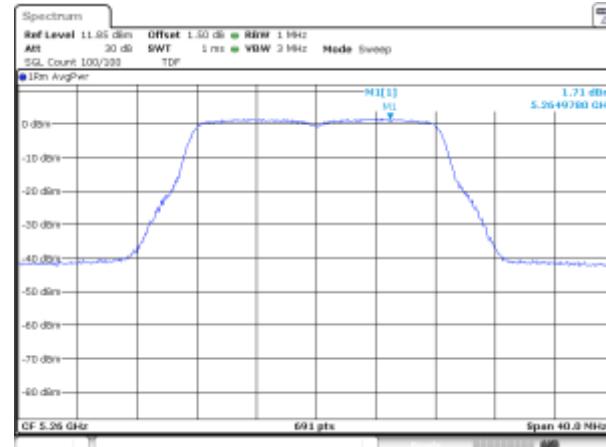
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4TX MIMO ANT 3

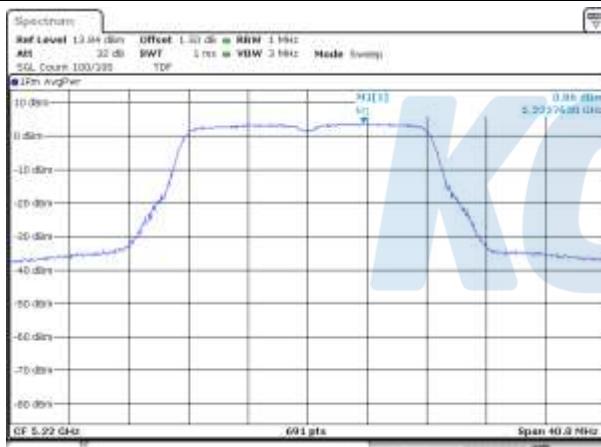
UNII-1 / 802.11a / 5 180 MHz



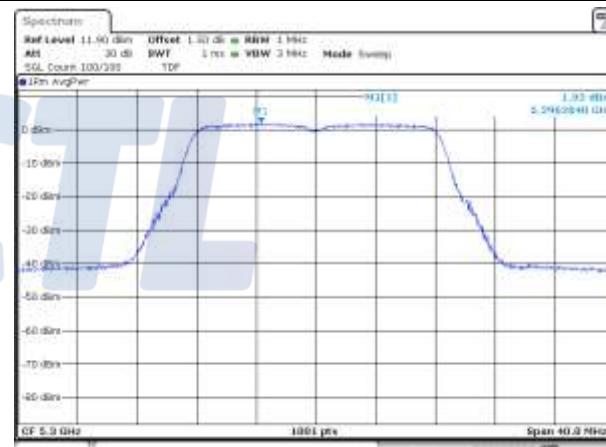
UNII-2A / 802.11a / 5 260 MHz



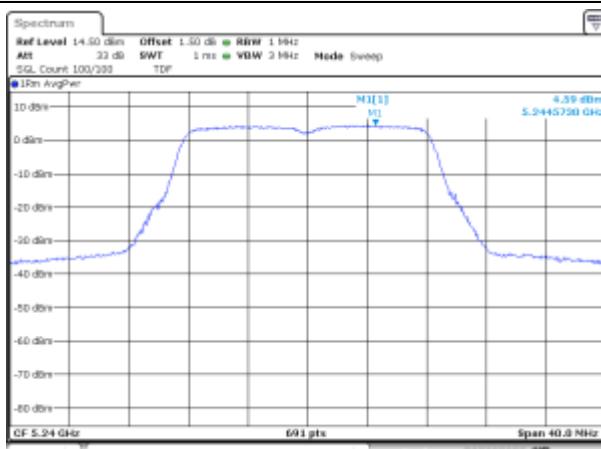
UNII-1 / 802.11a / 5 220 MHz



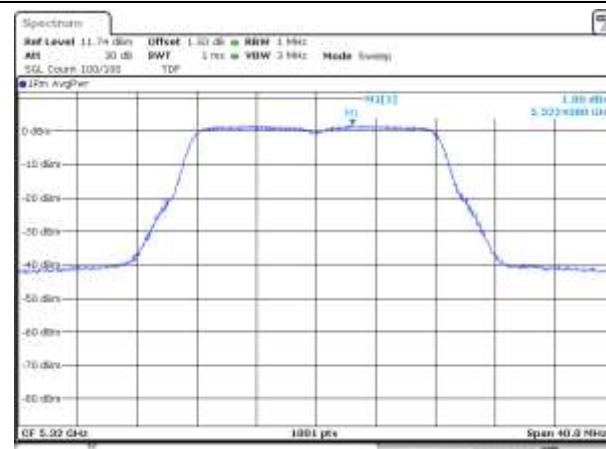
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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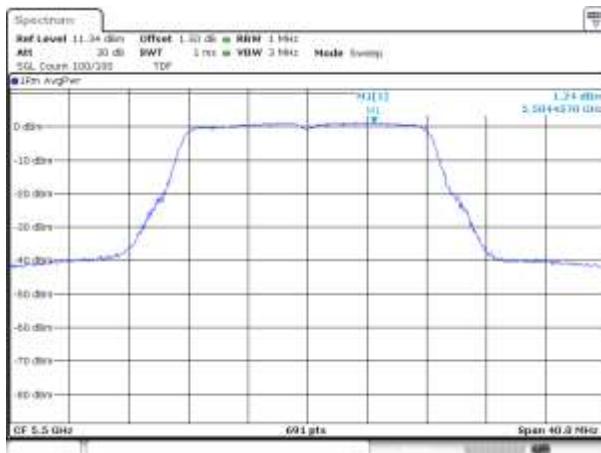
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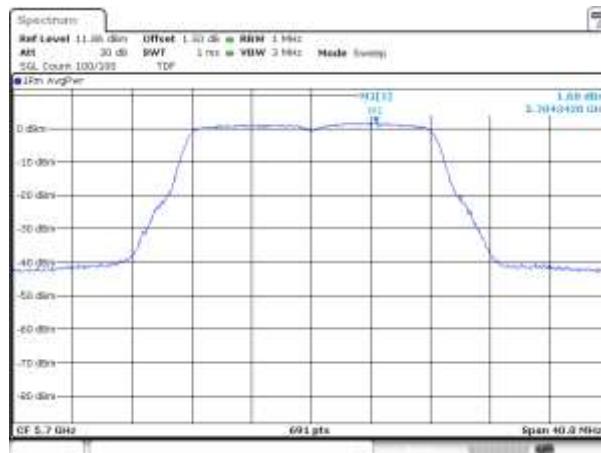
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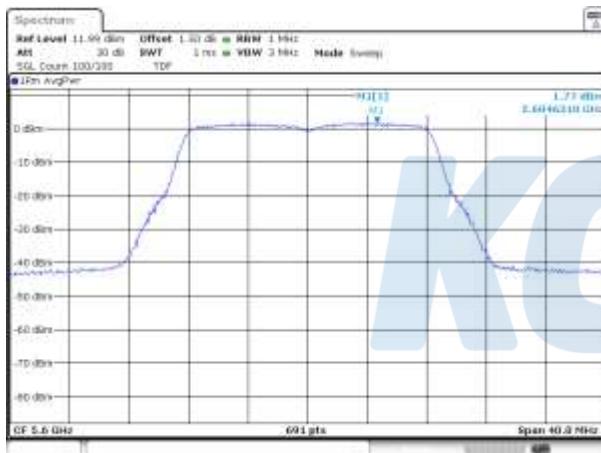
UNII-2C / 802.11a / 5 500 MHz



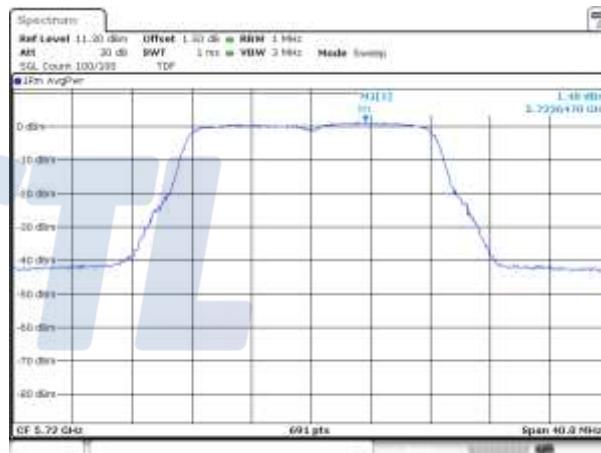
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



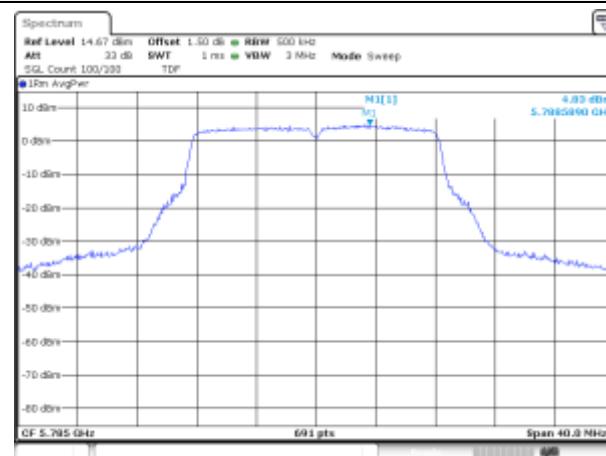
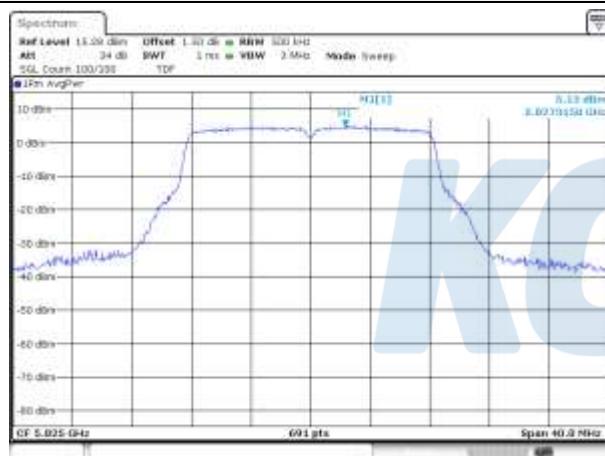
UNII-2C / 802.11a / 5 720 MHz



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KCTL**UNII-3 / 802.11a / 5 745 MHz****UNII-3 / 802.11a / 5 785 MHz****UNII-3 / 802.11a / 5 825 MHz**

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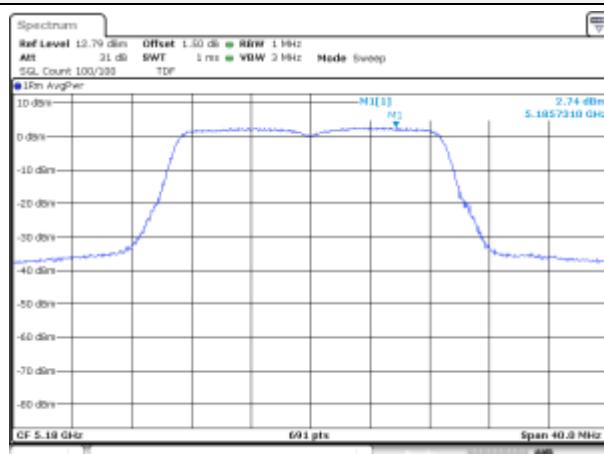
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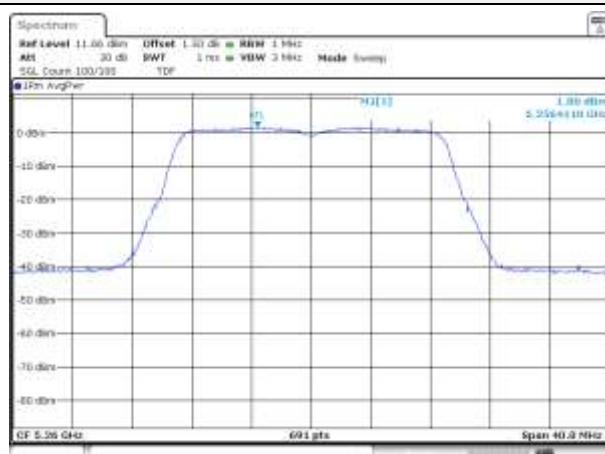
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UNII-1 / 802.11n HT20 / 5 180 MHz



UNII-2A / 802.11n HT20 / 5 260 MHz



UNII-1 / 802.11n HT20 / 5 220 MHz



UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



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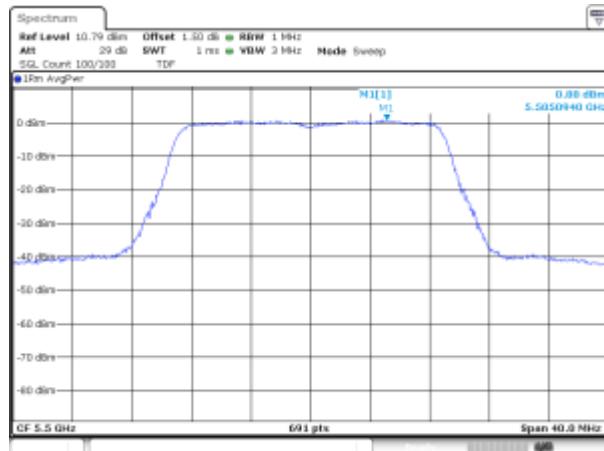
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TEL: 82-31-285-0894 FAX: 82-505-299-8311
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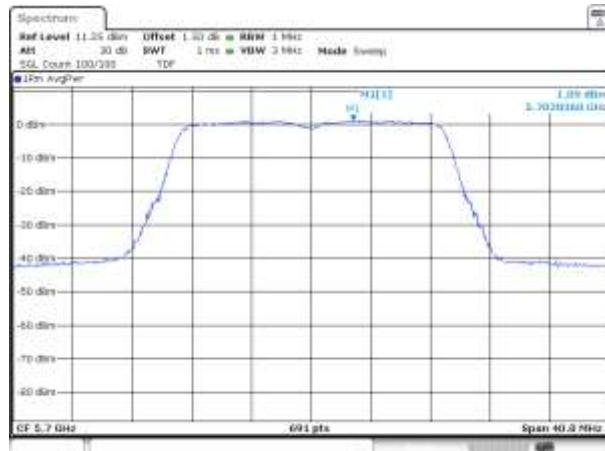
Page (244) of (1046)

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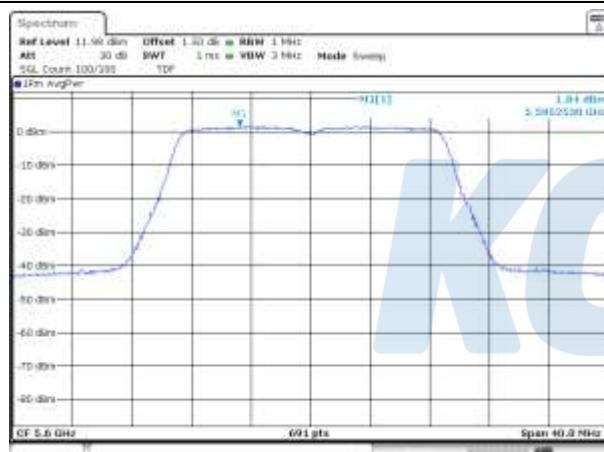
UNII-2C / 802.11n HT20 / 5 500 MHz



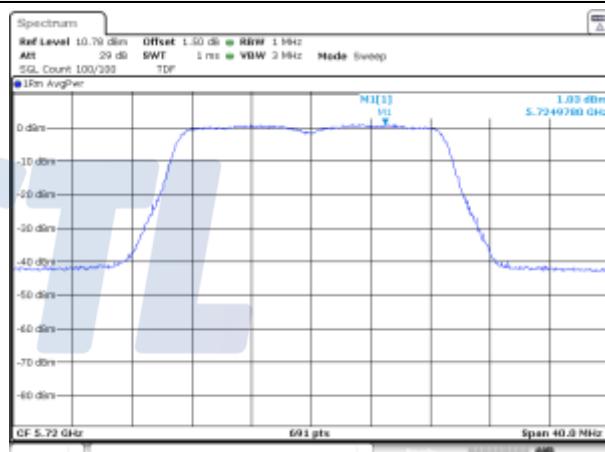
UNII-2C / 802.11n HT20 / 5 700 MHz



UNII-2C / 802.11n HT20 / 5 600 MHz



UNII-2C / 802.11n HT20 / 5 720 MHz

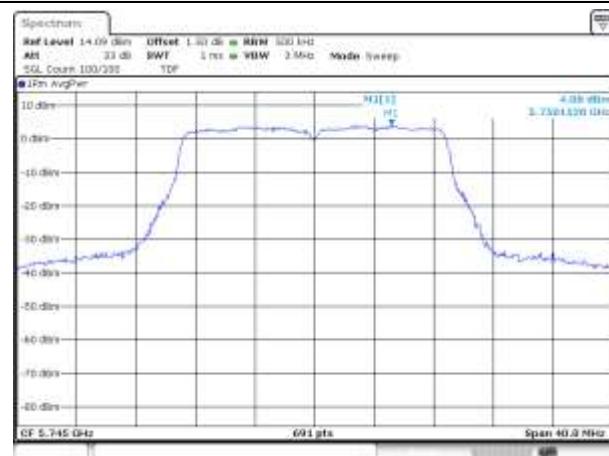


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KCTL**UNII-3 / 802.11n HT20 / 5 745 MHz****UNII-3 / 802.11n HT20 / 5 785 MHz****UNII-3 / 802.11n HT20 / 5 825 MHz**

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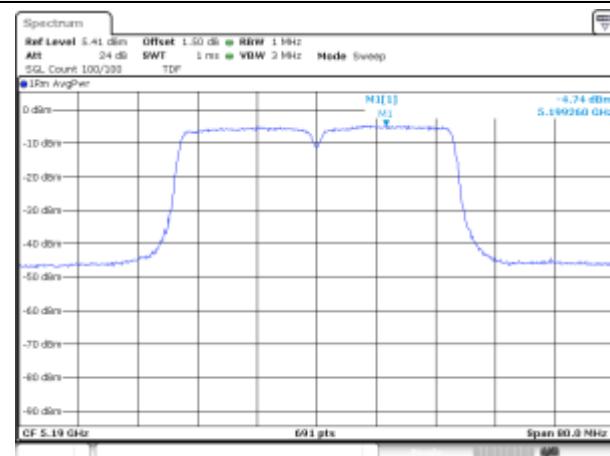
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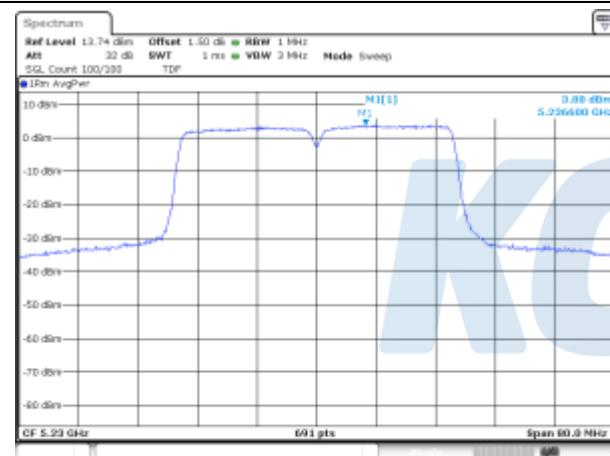
UNII-1 / 802.11n HT40 / 5 190 MHz



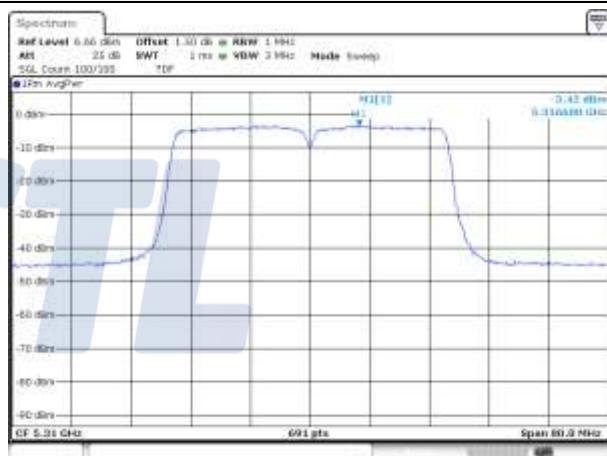
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



UNII-2A / 802.11n HT40 / 5 310 MHz



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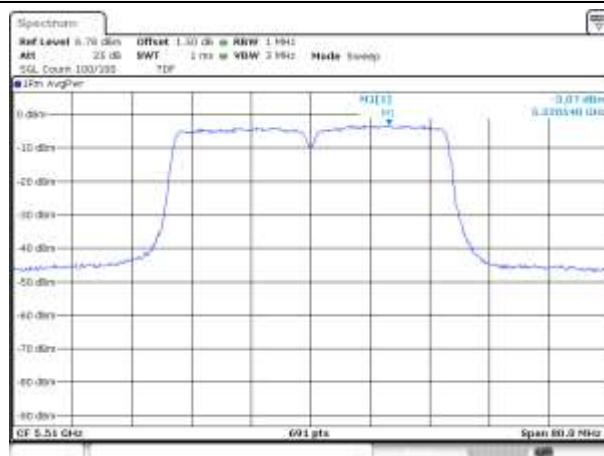
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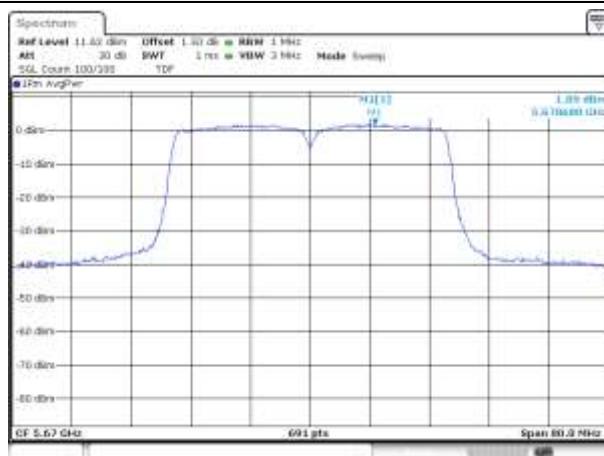
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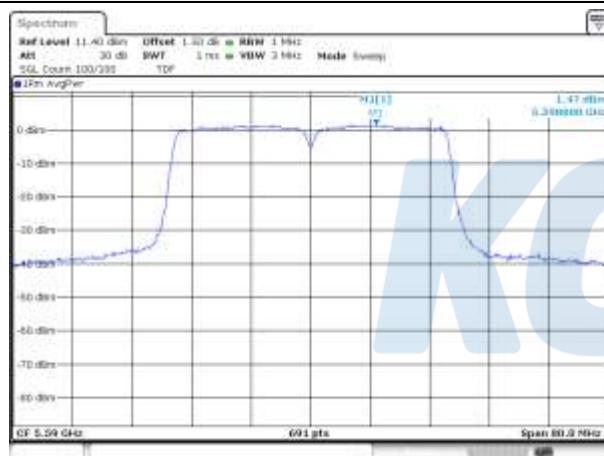
UNII-2C / 802.11n HT40 / 5 510 MHz



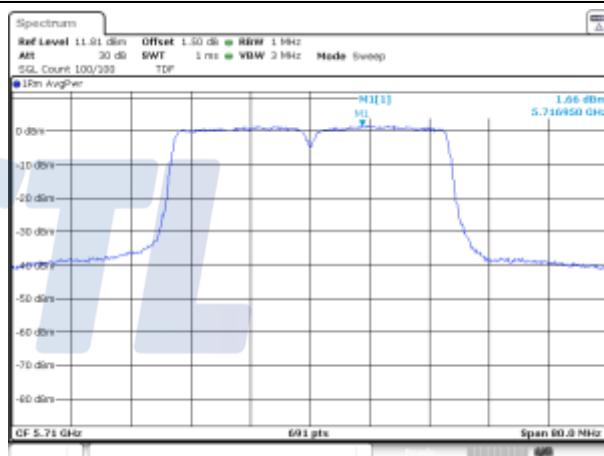
UNII-2C / 802.11n HT40 / 5 670 MHz



UNII-2C / 802.11n HT40 / 5 590 MHz



UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



KCTL Inc.

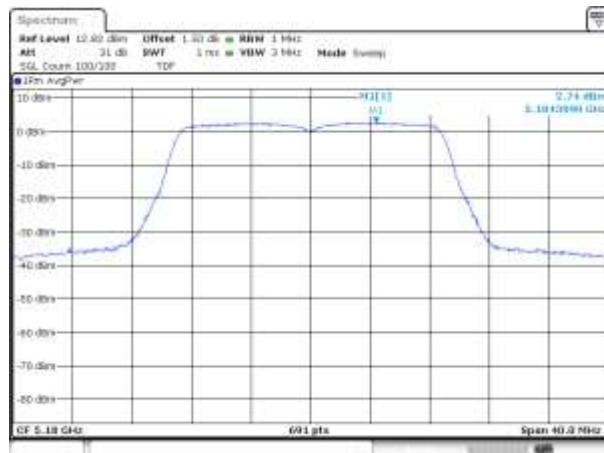
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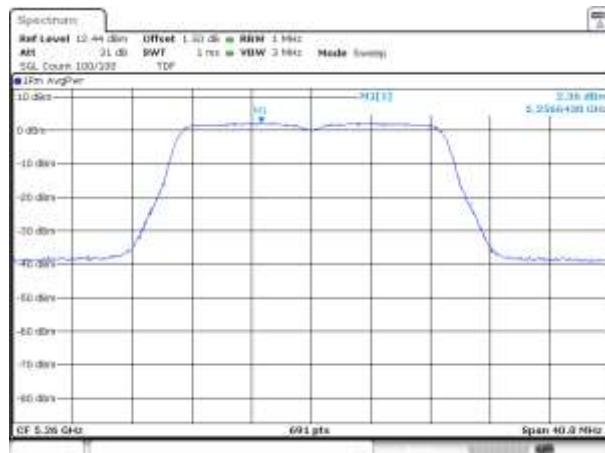
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UNII-1 / 802.11ac VHT20 / 5 180 MHz



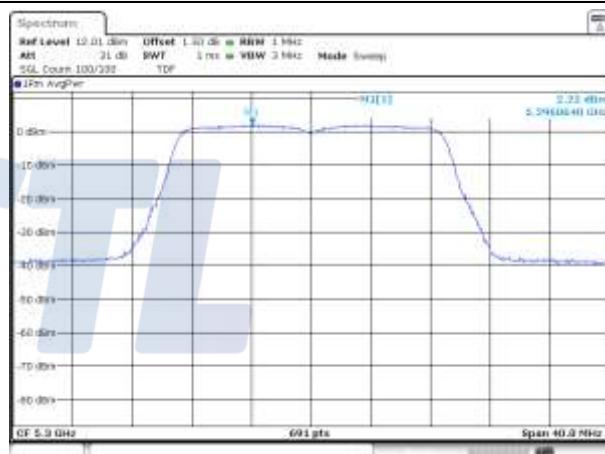
UNII-2A / 802.11ac VHT20 / 5 260 MHz



UNII-1 / 802.11ac VHT20 / 5 220 MHz



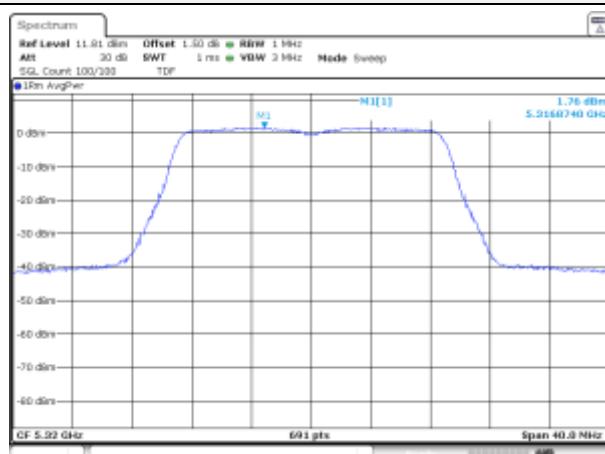
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



UNII-2A / 802.11ac VHT20 / 5 320 MHz

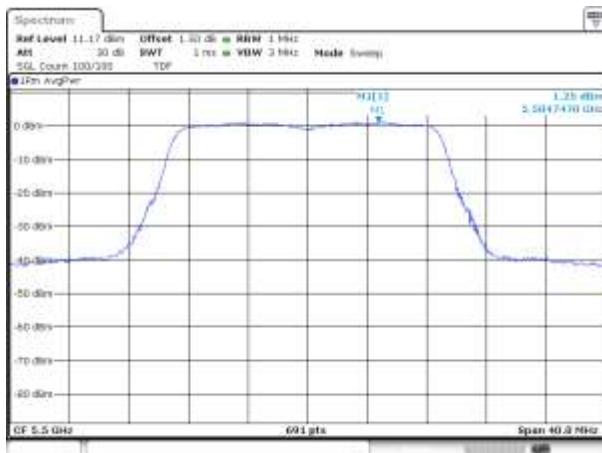
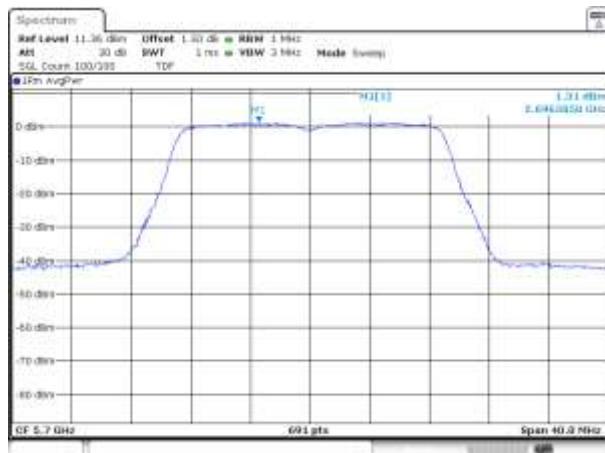
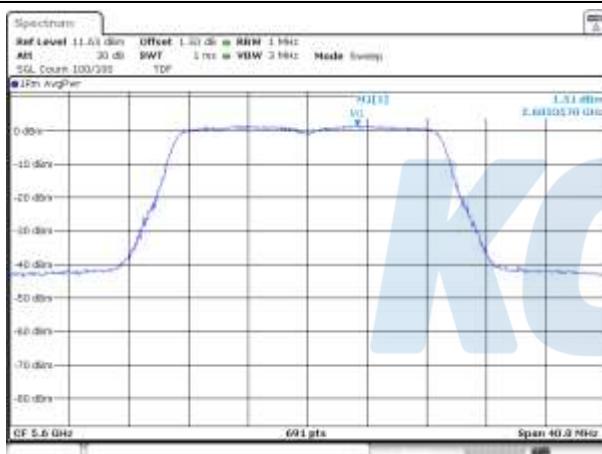
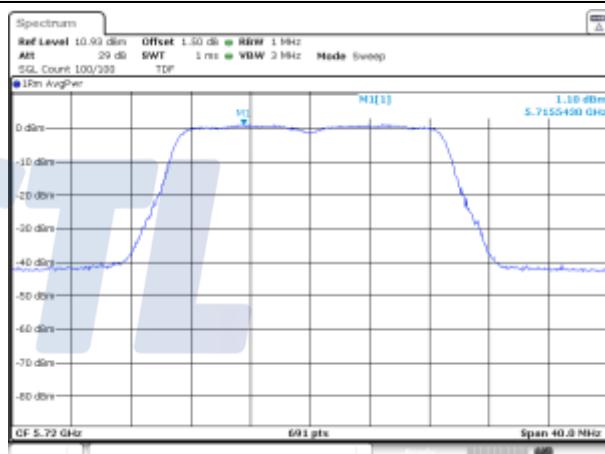


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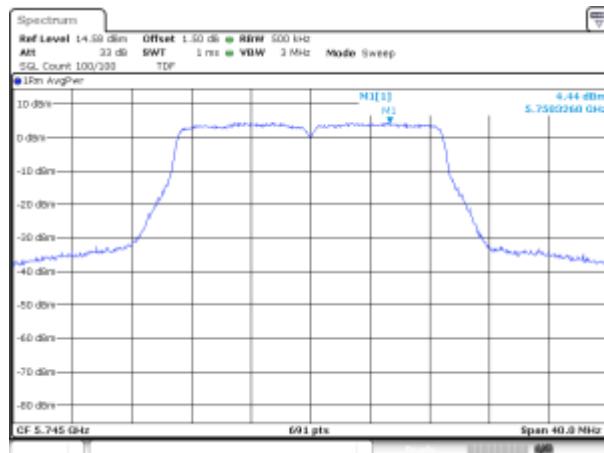
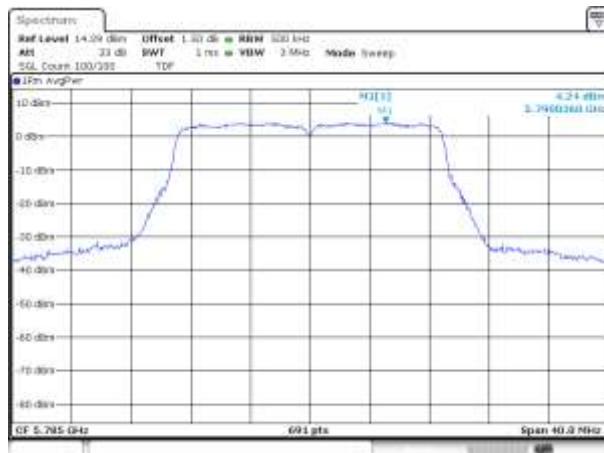
KCTL**UNII-2C / 802.11ac VHT20 / 5 500 MHz****UNII-2C / 802.11ac VHT20 / 5 700 MHz****UNII-2C / 802.11ac VHT20 / 5 600 MHz****UNII-2C / 802.11ac VHT20 / 5 720 MHz**

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KCTL**UNII-3 / 802.11ac VHT20 / 5 745 MHz****UNII-3 / 802.11ac VHT20 / 5 785 MHz****UNII-3 / 802.11ac VHT20 / 5 825 MHz**

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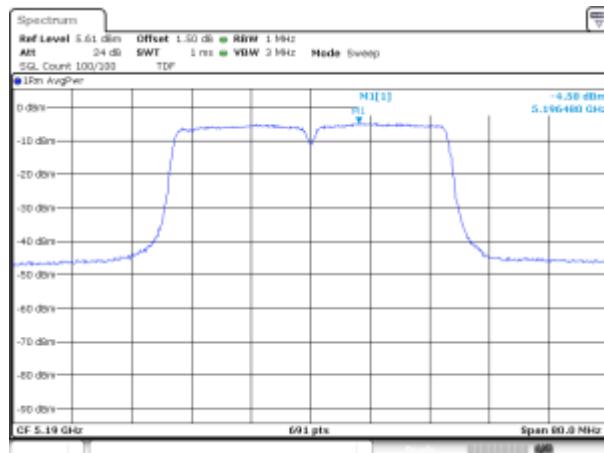
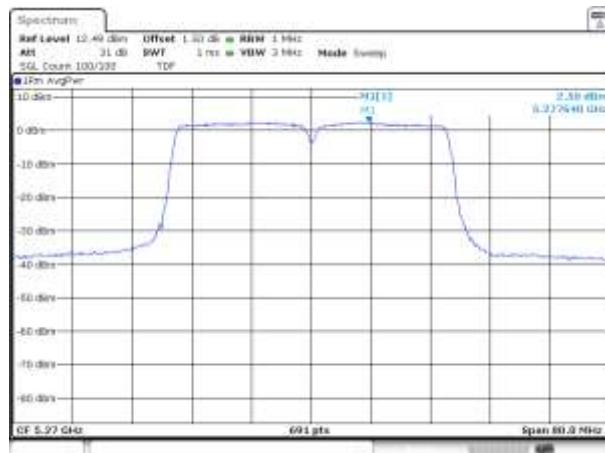
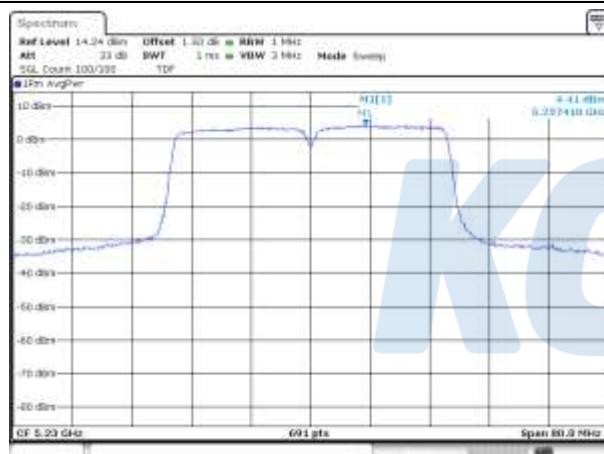
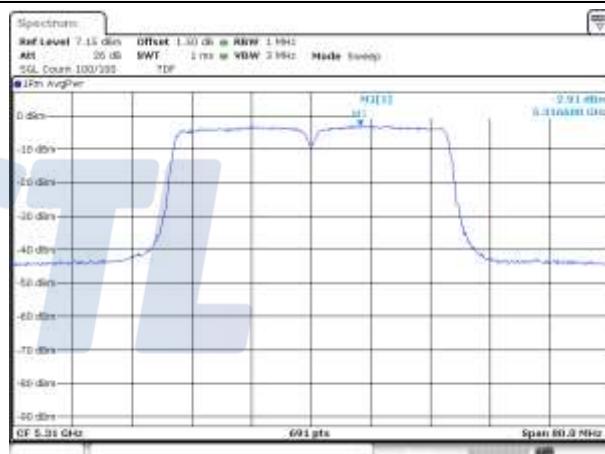
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KCTL**UNII-1 / 802.11ac VHT40 / 5 190 MHz****UNII-2A / 802.11ac VHT40 / 5 270 MHz****UNII-1 / 802.11ac VHT40 / 5 230 MHz****UNII-2A / 802.11ac VHT40 / 5 310 MHz**

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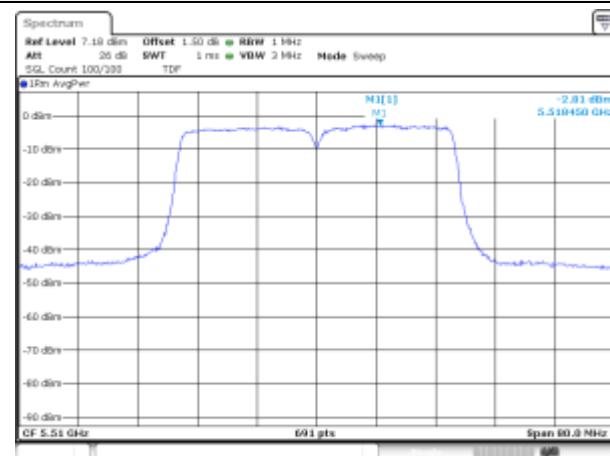
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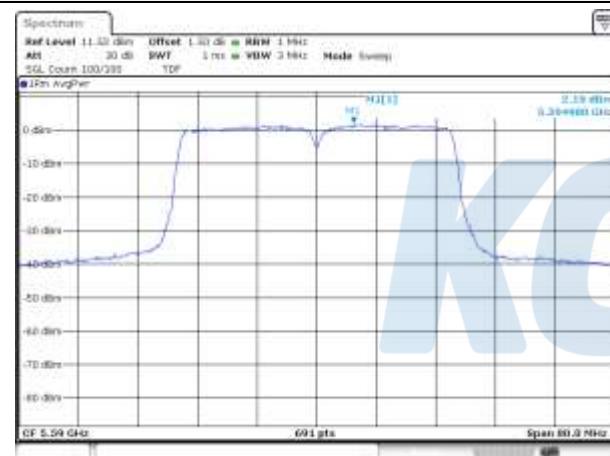
UNII-2C / 802.11ac VHT40 / 5 510 MHz



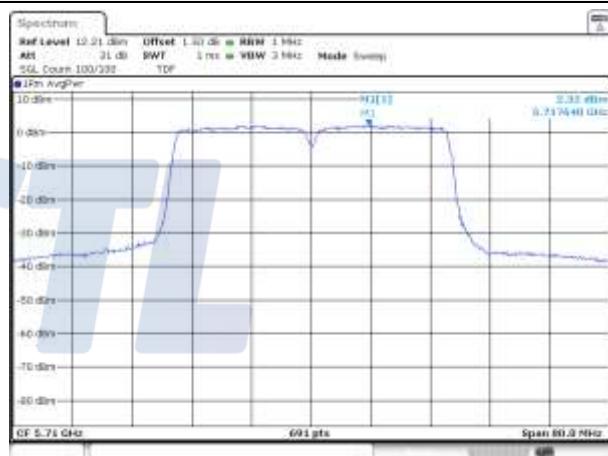
UNII-2C / 802.11ac VHT40 / 5 670 MHz



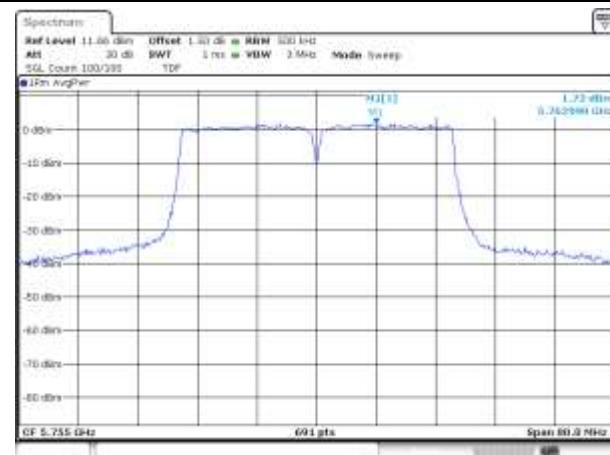
UNII-2C / 802.11ac VHT40 / 5 590 MHz



UNII-2C / 802.11ac VHT40 / 5 710 MHz



UNII-3 / 802.11ac VHT40 / 5 755 MHz



UNII-3 / 802.11ac VHT40 / 5 795 MHz



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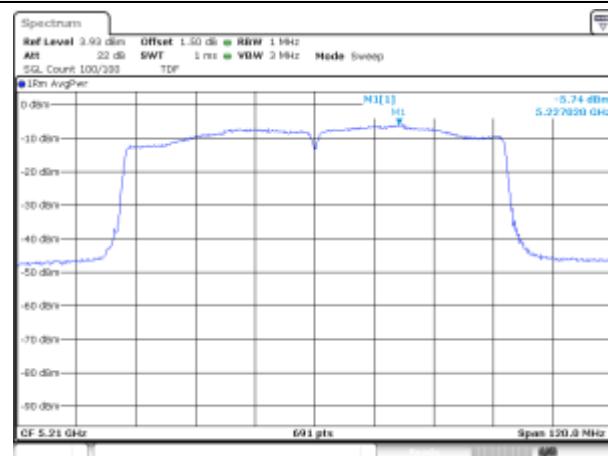
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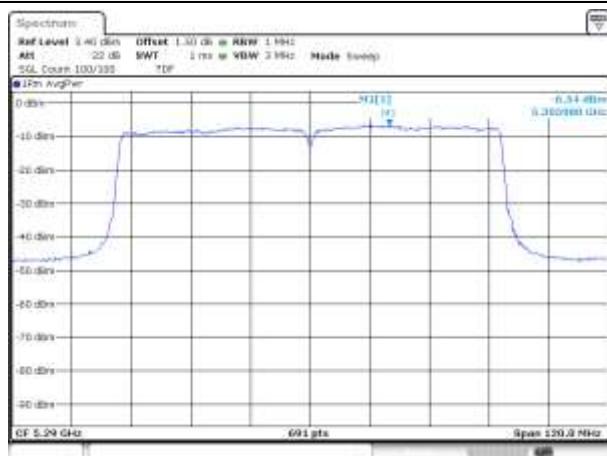
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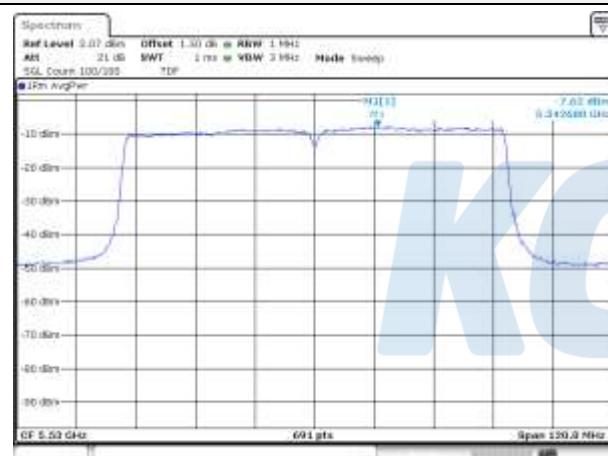
UNII-1 / 802.11ac VHT80 / 5 210 MHz



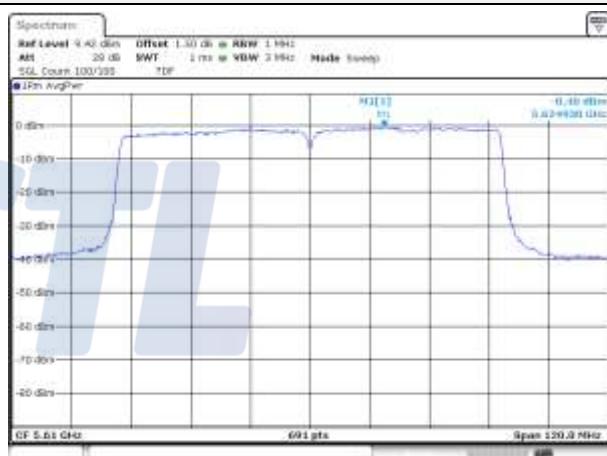
UNII-2A / 802.11ac VHT80 / 5 290 MHz



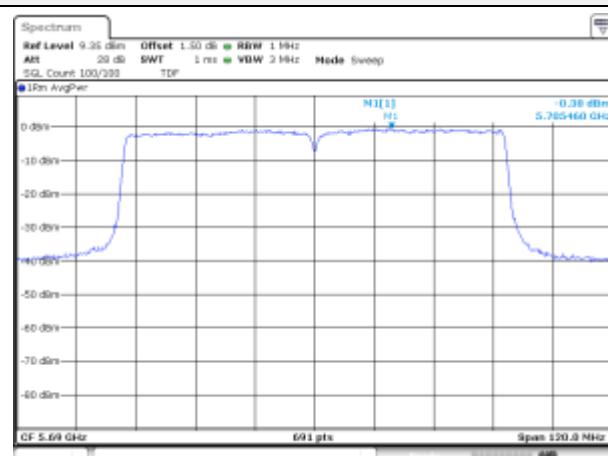
UNII-2C / 802.11ac VHT80 / 5 530 MHz



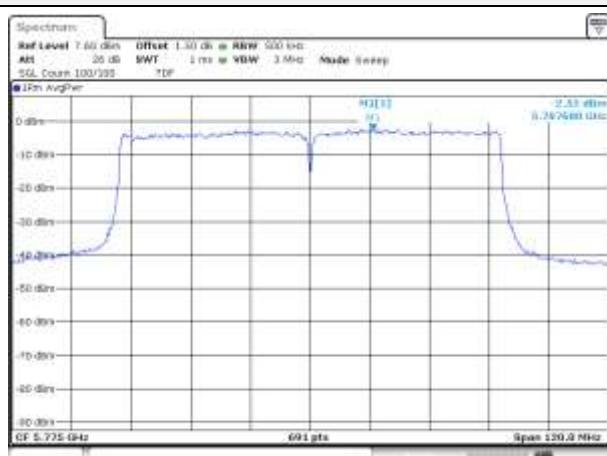
UNII-2C / 802.11ac VHT80 / 5 610 MHz



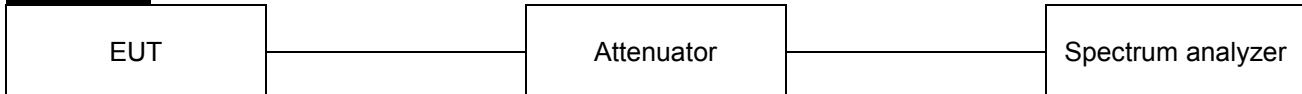
UNII-2C / 802.11ac VHT80 / 5 690 MHz



UNII-3 / 802.11ac VHT80 / 5 775 MHz



7.3. 26 dB Bandwidth

Test setup**Limit**

N/A

Test procedure**26dB bandwidth**

KDB 789033 D02 v02r01 - Section C.1

99% Bandwidth

KDB 789033 D02 v02r01 – Section D

Test settings**◆ 26dB Bandwidth**

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

◆ 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW \geq 3 x RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Test results**26dB Bandwidth**

Test mode	Band	Frequency(MHz)	Measured Bandwidth ANT 0 (MHz)	Measured Bandwidth ANT 1 (MHz)	Measured Bandwidth ANT 2 (MHz)	Measured Bandwidth ANT 3 (MHz)
11a	UNII-1	5 180	21.28	21.27	21.42	21.56
		5 200	21.23	21.56	21.56	21.35
		5 240	21.33	21.42	21.27	21.49
	UNII-2A	5 260	21.33	21.56	21.42	21.43
		5 280	21.48	21.64	21.64	21.48
		5 320	21.23	21.49	21.42	21.49
	UNII-2C	5 500	21.43	21.42	21.35	21.35
		5 580	21.23	21.42	21.42	21.56
		5 700	21.43	21.42	21.49	21.20
	Straddle	5 720	15.74	15.59	15.78	15.78
11n HT20	UNII-1	5 180	21.53	21.64	21.64	21.64
		5 200	21.83	21.71	21.64	21.64
		5 240	21.58	21.64	21.64	21.85
	UNII-2A	5 260	21.68	21.78	21.71	21.48
		5 280	21.53	22.00	21.71	21.58
		5 320	21.68	21.64	21.49	21.78
	UNII-2C	5 500	21.58	21.78	21.64	21.71
		5 580	21.73	21.68	21.78	21.56
		5 700	21.68	21.68	21.71	21.64
	Straddle	5 720	15.69	15.79	15.93	15.71
11n HT40	UNII-1	5 190	40.16	40.23	40.67	40.52
		5 230	40.46	40.67	40.96	40.56
	UNII-2A	5 270	40.16	40.81	40.67	40.96
		5 310	40.26	40.38	40.67	40.38
	UNII-2C	5 510	40.76	40.56	40.67	40.09
		5 550	40.66	40.56	40.52	40.96
		5 670	40.76	40.36	40.36	40.52
	Straddle	5 710	35.38	35.18	35.18	35.26

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Test mode	Band	Frequency(MHz)	Measured Bandwidth ANT 0 (MHz)	Measured Bandwidth ANT 1 (MHz)	Measured Bandwidth ANT 2 (MHz)	Measured Bandwidth ANT 3 (MHz)
11ac VHT20	UNII-1	5 180	21.68	21.71	21.85	21.49
		5 200	21.63	21.78	21.64	21.68
		5 240	21.68	21.92	21.71	21.78
	UNII-2A	5 260	21.73	21.85	21.71	21.88
		5 280	21.73	21.71	21.56	21.73
		5 320	21.53	21.71	21.71	21.64
	UNII-2C	5 500	21.53	21.53	21.53	21.78
		5 580	21.73	21.98	21.58	21.64
		5 700	21.53	21.68	21.68	21.71
	Straddle	5 720	15.79	15.79	15.99	15.85
11ac VHT40	UNII-1	5 190	40.46	40.67	40.52	40.38
		5 230	40.56	40.67	40.81	40.23
	UNII-2A	5 270	40.56	40.56	40.67	40.46
		5 310	40.36	40.81	40.52	40.52
	UNII-2C	5 510	40.36	40.46	40.36	40.38
		5 550	40.26	41.06	40.66	40.66
		5 670	40.16	42.26	40.56	40.36
	Straddle	5 710	35.38	35.18	35.18	35.26
11ac VHT80	UNII-1	5 210	82.36	81.97	81.79	81.62
	UNII-2A	5 290	82.00	81.97	81.97	82.32
	UNII-2C	5 530	82.48	83.08	82.60	82.48
		5 610	82.24	82.60	82.48	82.60
	Straddle	5 690	76.24	76.12	76.12	76.33

99% Bandwidth

Test mode	Band	Frequency(MHz)	Measured Bandwidth ANT 0 (MHz)	Measured Bandwidth ANT 1 (MHz)	Measured Bandwidth ANT 2 (MHz)	Measured Bandwidth ANT 3 (MHz)
11a	UNII-1	5 180	16.78	16.79	16.71	16.79
		5 200	16.78	16.79	16.79	16.86
		5 240	16.78	16.86	16.79	16.79
	UNII-2A	5 260	16.73	16.79	16.79	16.83
		5 280	16.78	16.86	16.86	16.78
		5 320	16.78	16.79	16.79	16.79
	UNII-2C	5 500	16.73	16.79	16.79	16.79
		5 580	16.73	16.79	16.79	16.79
		5 700	16.73	16.79	16.79	16.79
	Straddle	5 720	16.78	16.73	16.79	16.79
	UNII-3	5 745	16.78	16.86	17.00	16.79
		5 785	16.78	16.93	16.86	16.79
		5 825	16.78	16.93	17.08	16.86
11n HT20	UNII-1	5 180	17.93	17.95	17.95	17.95
		5 200	17.88	17.95	17.95	17.95
		5 240	17.88	17.95	17.95	17.95
	UNII-2A	5 260	17.88	17.87	17.87	17.93
		5 280	17.88	17.95	17.95	17.98
		5 320	17.93	17.95	17.95	17.95
	UNII-2C	5 500	17.83	17.87	17.95	17.87
		5 580	17.88	17.88	17.95	17.95
		5 700	17.88	17.88	17.95	17.95
	Straddle	5 720	17.93	17.93	17.95	17.87
	UNII-3	5 745	17.83	18.02	17.95	17.95
		5 785	17.88	18.02	18.16	18.02
		5 825	17.93	18.23	18.23	18.02
11n HT40	UNII-1	5 190	36.56	36.47	36.47	36.61
		5 230	36.66	36.61	36.61	36.56
	UNII-2A	5 270	36.46	36.47	36.61	36.66
		5 310	36.56	36.61	36.47	36.47
	UNII-2C	5 510	36.46	36.56	36.61	36.61
		5 550	36.56	36.56	36.61	36.61
		5 670	36.56	36.56	36.56	36.61
	Straddle	5 710	36.56	36.66	36.66	36.61
	UNII-3	5 755	36.56	36.90	36.90	36.61
		5 795	36.66	36.90	37.05	36.61

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Test mode	Band	Frequency(MHz)	Measured Bandwidth ANT 0 (MHz)	Measured Bandwidth ANT 1 (MHz)	Measured Bandwidth ANT 2 (MHz)	Measured Bandwidth ANT 3 (MHz)
11ac VHT20	UNII-1	5 180	17.93	17.95	17.87	17.87
		5 200	17.88	17.95	17.95	17.93
		5 240	17.88	18.02	17.95	17.98
	UNII-2A	5 260	17.88	17.95	17.95	17.93
		5 280	17.88	17.95	17.95	17.98
		5 320	17.88	17.95	17.87	17.95
	UNII-2C	5 500	17.88	17.83	17.88	17.95
		5 580	17.88	17.93	17.88	17.95
		5 700	17.93	17.88	17.88	17.95
	Straddle	5 720	17.88	17.88	17.93	17.95
	UNII-3	5 745	17.93	17.95	18.02	17.95
		5 785	17.93	17.95	18.16	17.95
		5 825	17.93	18.23	18.23	17.95
11ac VHT40	UNII-1	5 190	36.46	36.61	36.47	36.61
		5 230	36.56	36.61	36.61	36.56
	UNII-2A	5 270	36.46	36.56	36.61	36.56
		5 310	36.56	36.61	36.47	36.47
	UNII-2C	5 510	36.46	36.46	36.46	36.61
		5 550	36.36	36.46	36.46	36.46
		5 670	36.56	36.56	36.56	36.46
	Straddle	5 710	36.56	36.56	36.56	36.61
	UNII-3	5 755	36.56	36.61	36.90	36.47
		5 795	36.56	36.76	36.76	36.61
11ac VHT80	UNII-1	5 210	75.04	75.20	75.02	75.02
	UNII-2A	5 290	75.88	75.89	75.89	75.89
	UNII-2C	5 530	75.88	75.88	75.88	75.88
		5 610	75.76	75.76	75.88	75.88
	Straddle	5 690	75.88	76.00	76.00	76.06
	UNII-3	5 775	76.00	76.06	76.06	76.06

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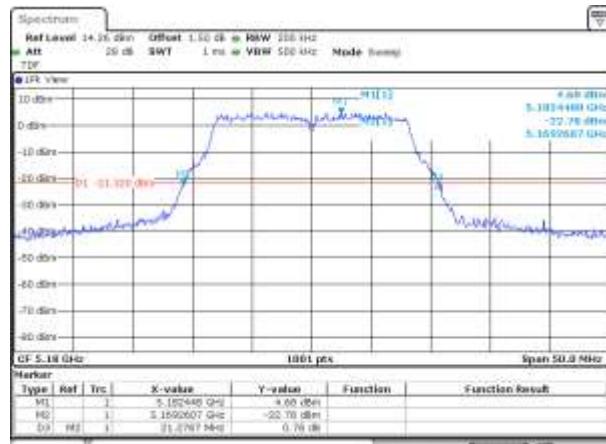
Page (259) of (1046)

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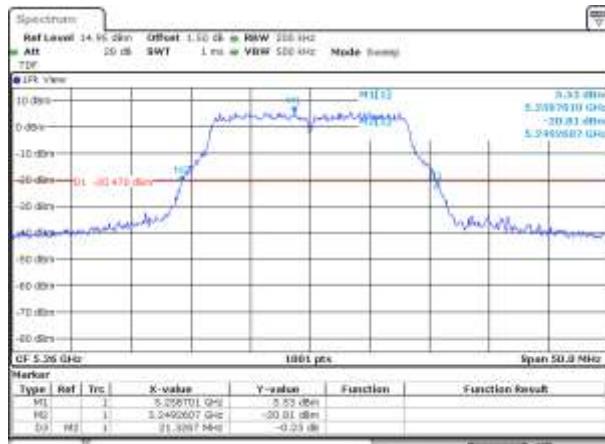
26 dB bandwidth

ANT 0

UNII-1 / 802.11a / 5 180 MHz



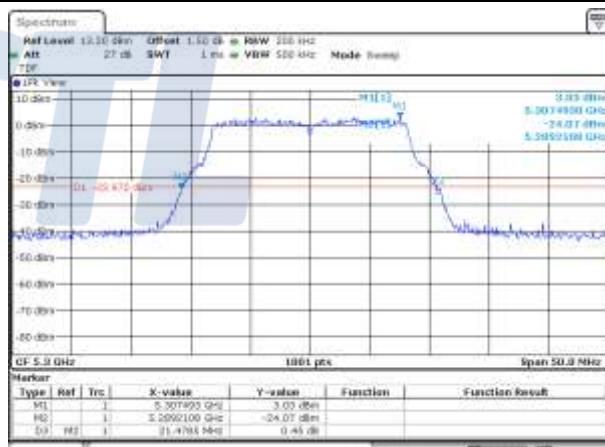
UNII-2A / 802.11a / 5 260 MHz



UNII-1 / 802.11a / 5 220 MHz



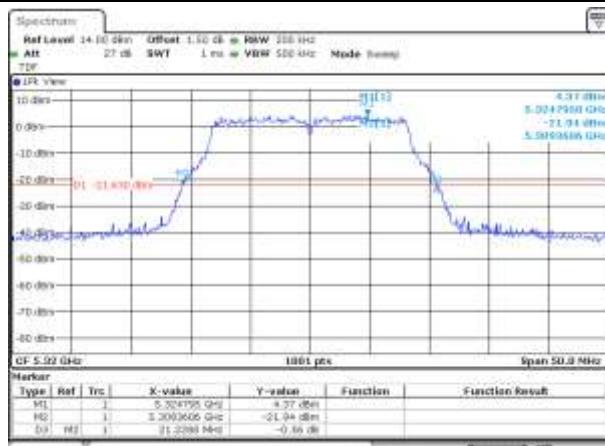
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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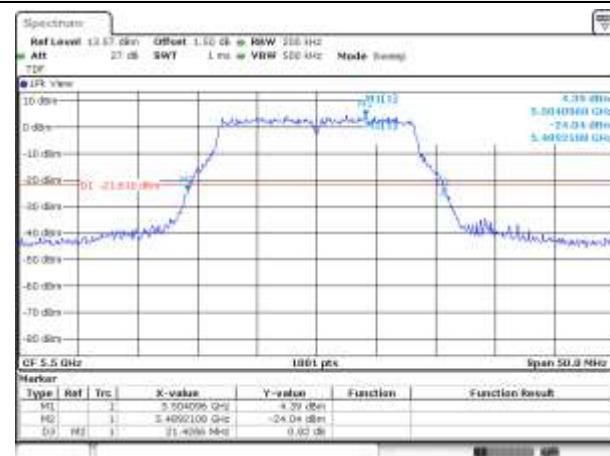
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KR20-SRF0030-D

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UNII-2C / 802.11a / 5 500 MHz

UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz

UNII-2C / 802.11a / 5 720 MHz



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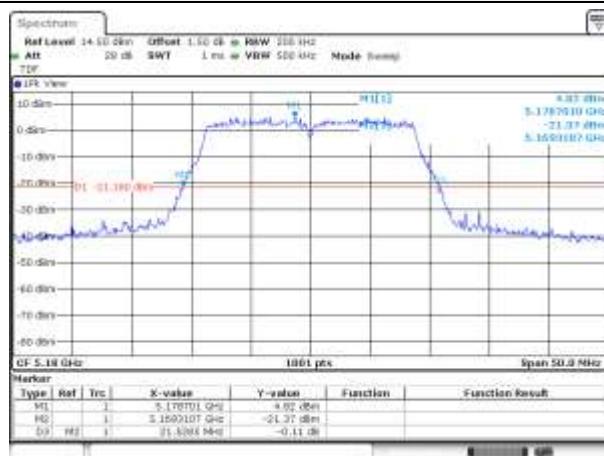
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TEL: 82-31-285-0894 FAX: 82-505-299-8311
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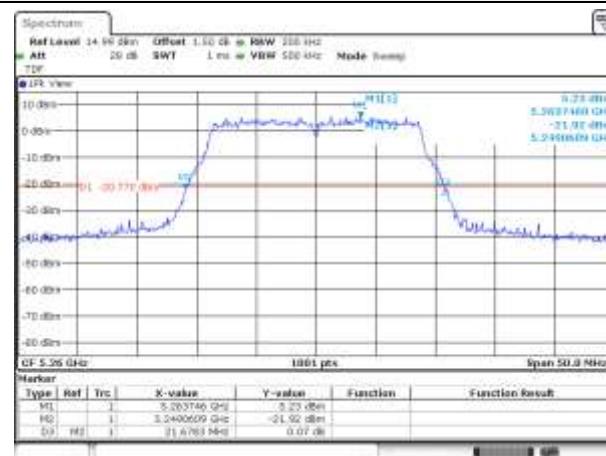
Page (261) of (1046)

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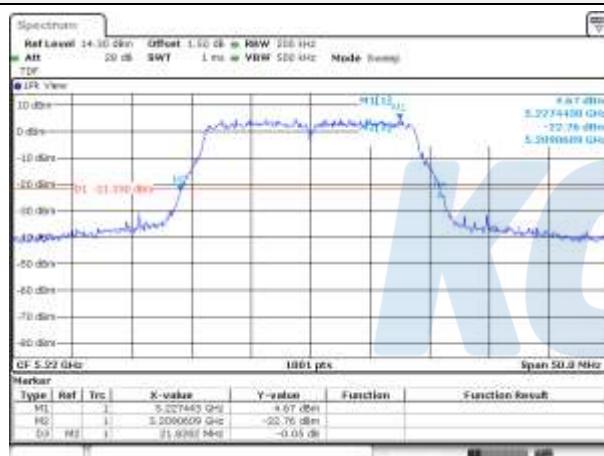
UNII-1 / 802.11n HT20 / 5 180 MHz



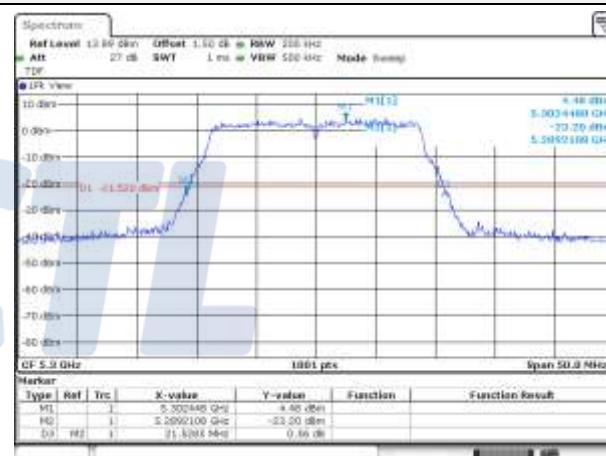
UNII-2A / 802.11n HT20 / 5 260 MHz



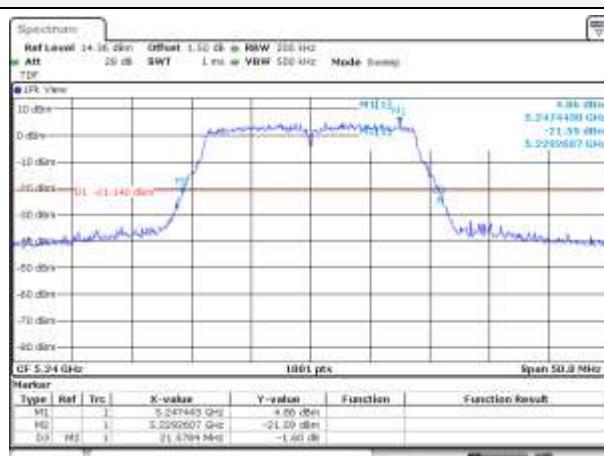
UNII-1 / 802.11n HT20 / 5 220 MHz



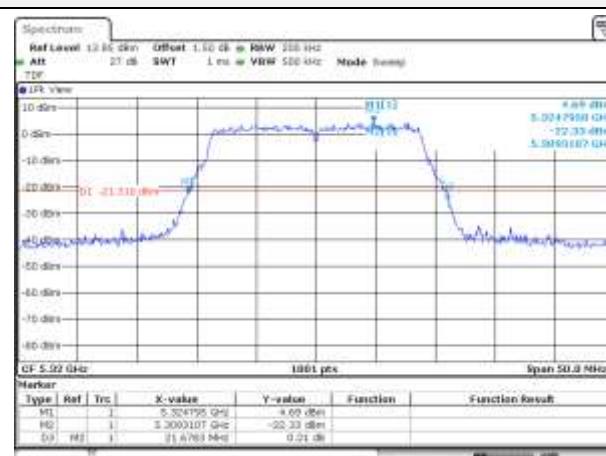
UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



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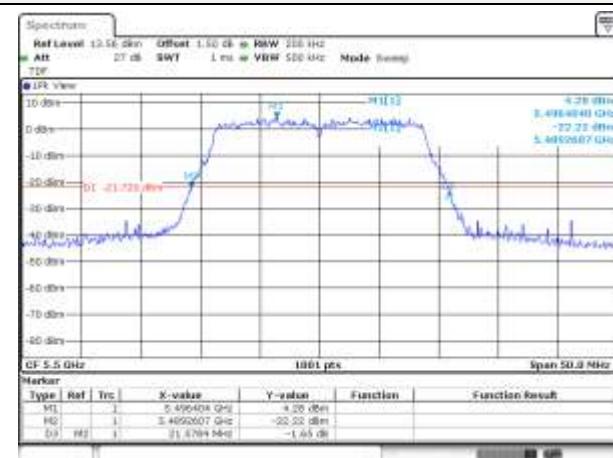
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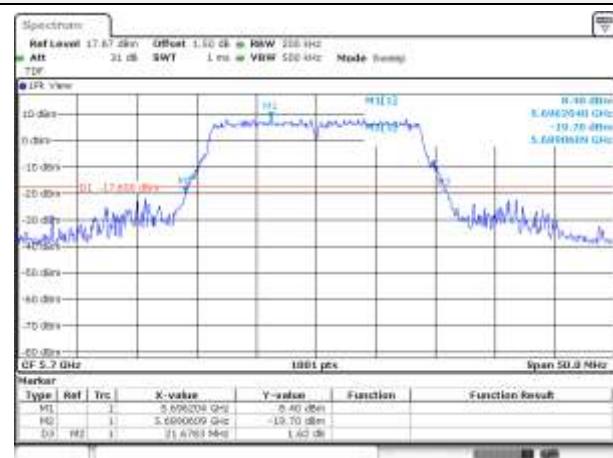
Page (262) of (1046)

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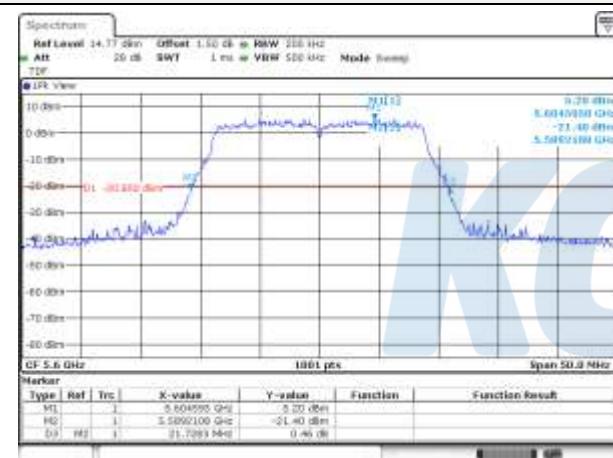
UNII-2C / 802.11n HT20 / 5 500 MHz



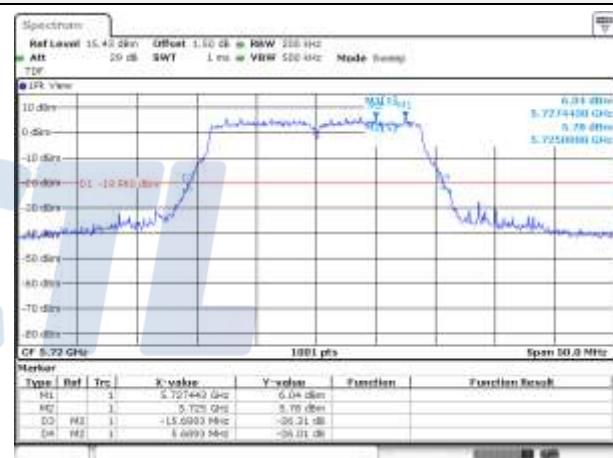
UNII-2C / 802.11n HT20 / 5 700 MHz



UNII-2C / 802.11n HT20 / 5 600 MHz



UNII-2C / 802.11n HT20 / 5 720 MHz



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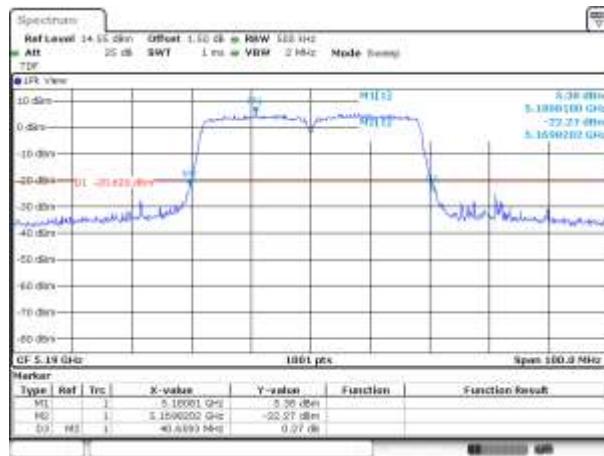
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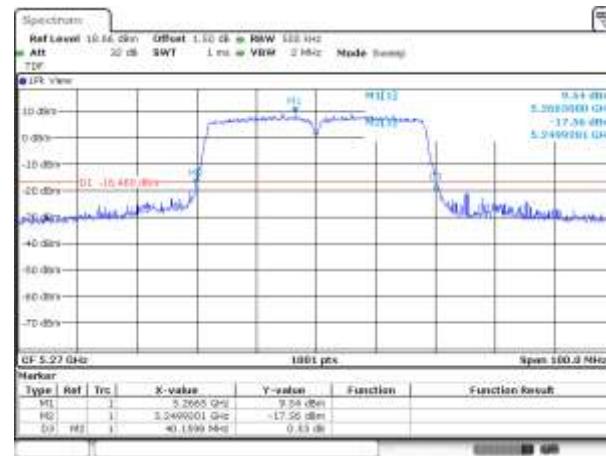
Page (263) of (1046)

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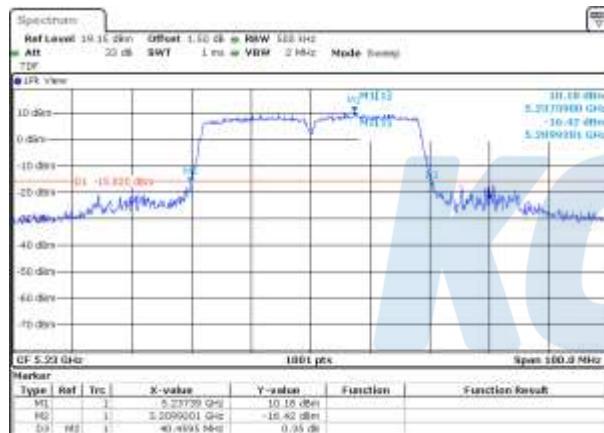
UNII-1 / 802.11n HT40 / 5 190 MHz



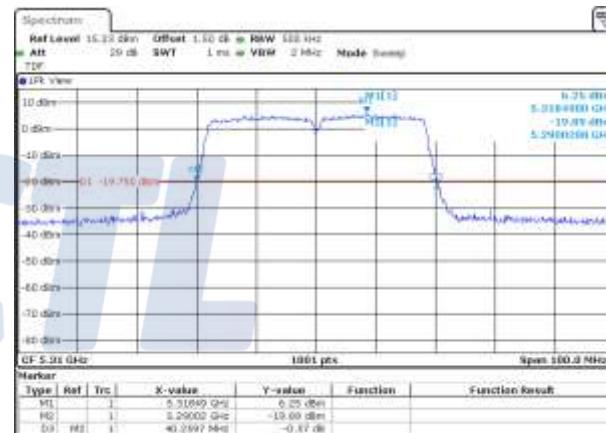
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



UNII-2A / 802.11n HT40 / 5 310 MHz



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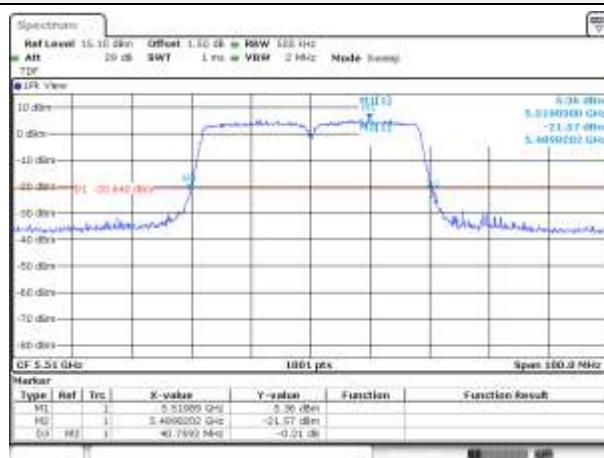
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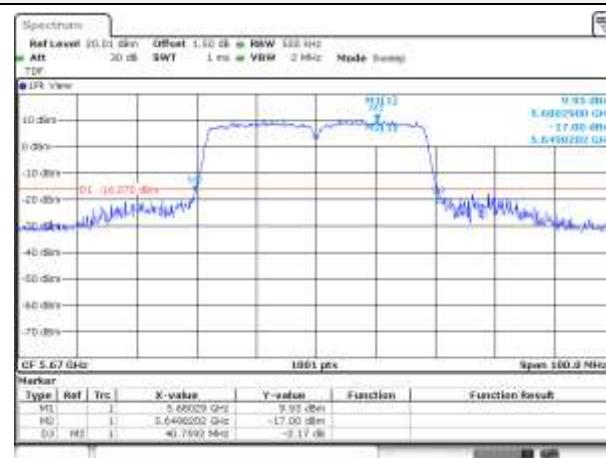
Page (264) of (1046)

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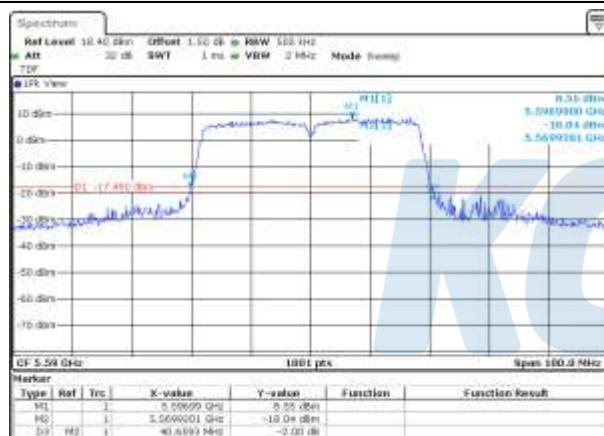
UNII-2C / 802.11n HT40 / 5 510 MHz



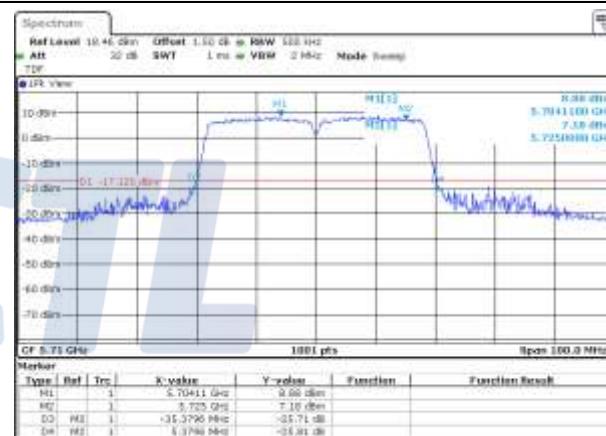
UNII-2C / 802.11n HT40 / 5 670 MHz



UNII-2C / 802.11n HT40 / 5 590 MHz



UNII-2C / 802.11n HT40 / 5 710 MHz



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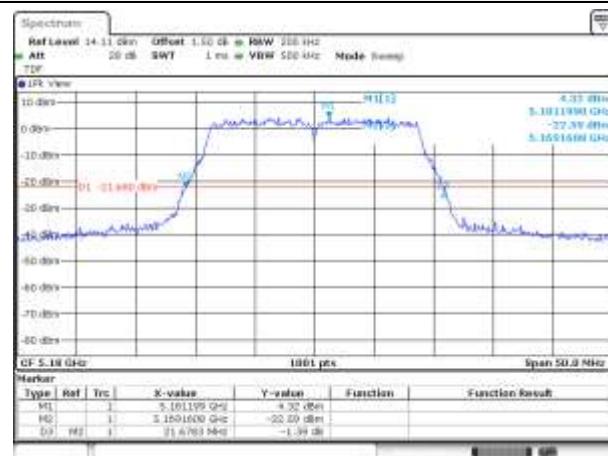
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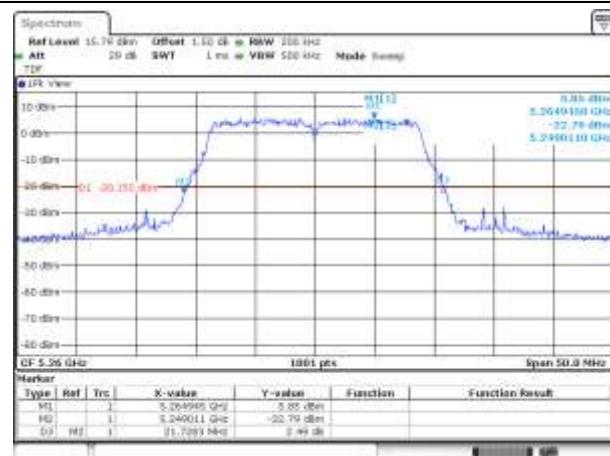
Page (265) of (1046)

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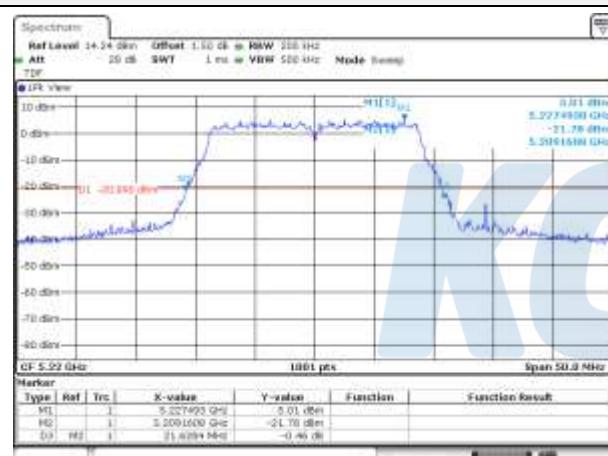
UNII-1 / 802.11ac VHT20 / 5 180 MHz



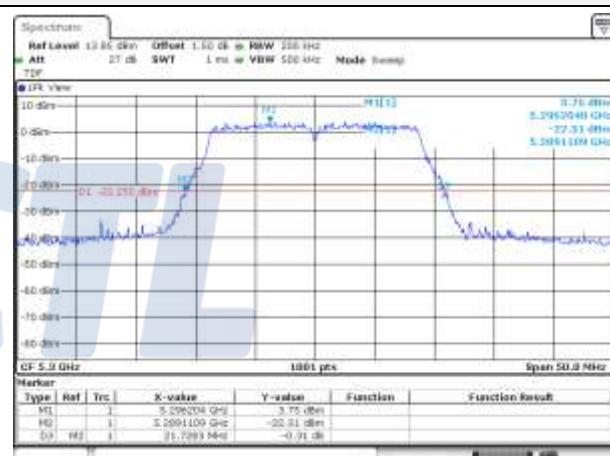
UNII-2A / 802.11ac VHT20 / 5 260 MHz



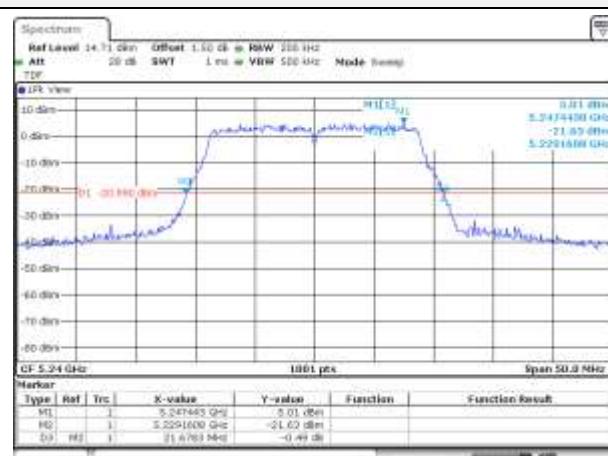
UNII-1 / 802.11ac VHT20 / 5 220 MHz



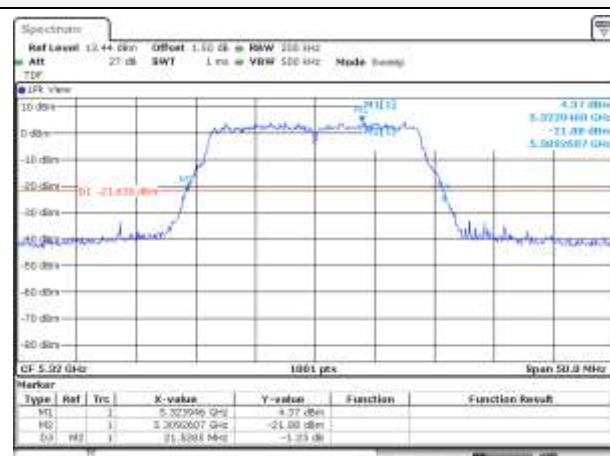
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



UNII-2A / 802.11ac VHT20 / 5 320 MHz



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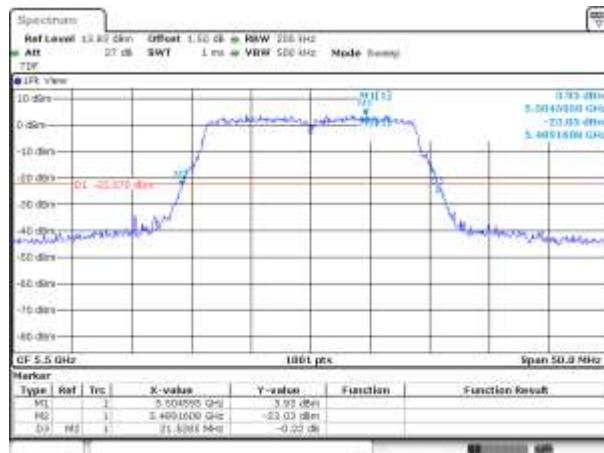
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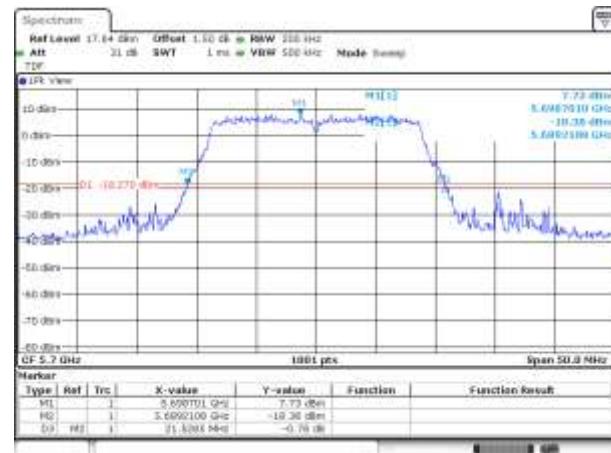
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UNII-2C / 802.11ac VHT20 / 5 500 MHz



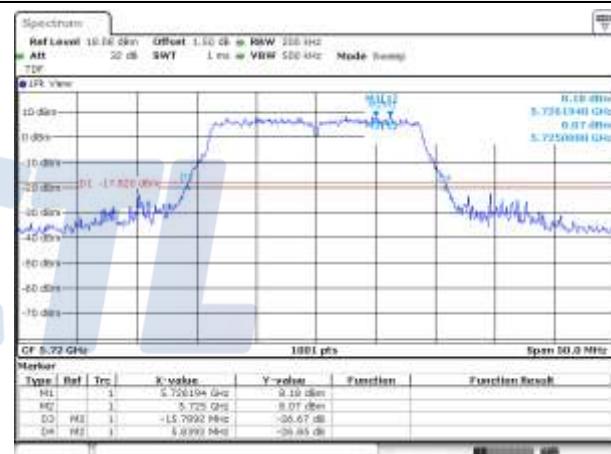
UNII-2C / 802.11ac VHT20 / 5 700 MHz



UNII-2C / 802.11ac VHT20 / 5 600 MHz



UNII-2C / 802.11ac VHT20 / 5 720 MHz



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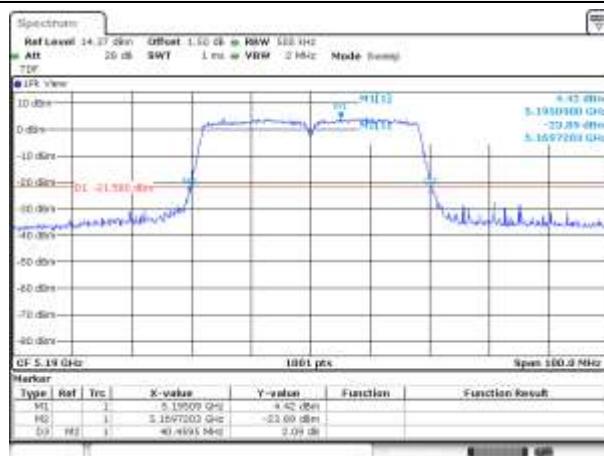
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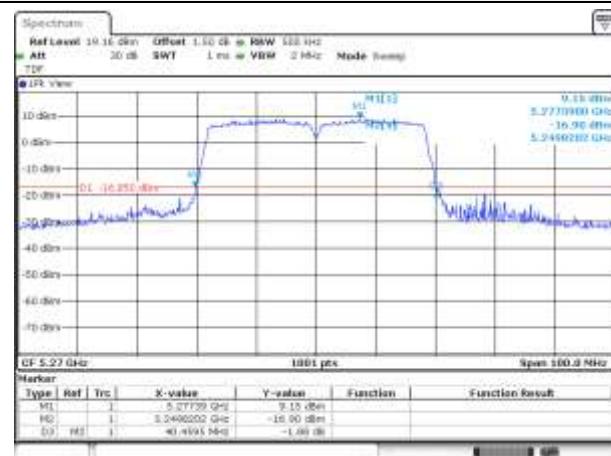
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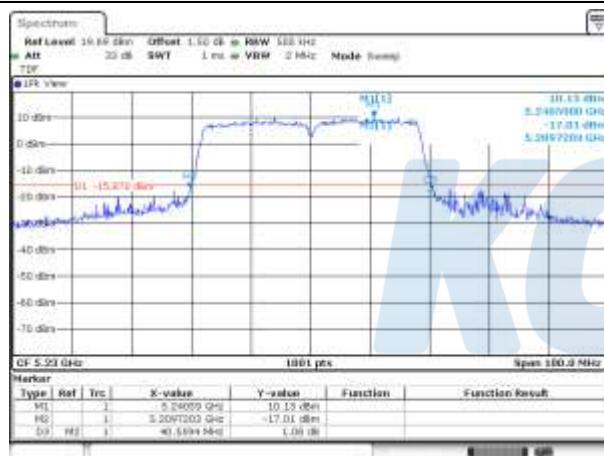
UNII-1 / 802.11ac VHT40 / 5 190 MHz



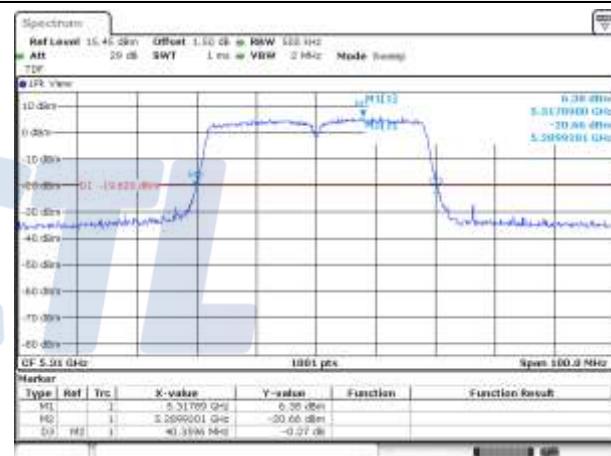
UNII-2A / 802.11ac VHT40 / 5 270 MHz



UNII-1 / 802.11ac VHT40 / 5 230 MHz



UNII-2A / 802.11ac VHT40 / 5 310 MHz



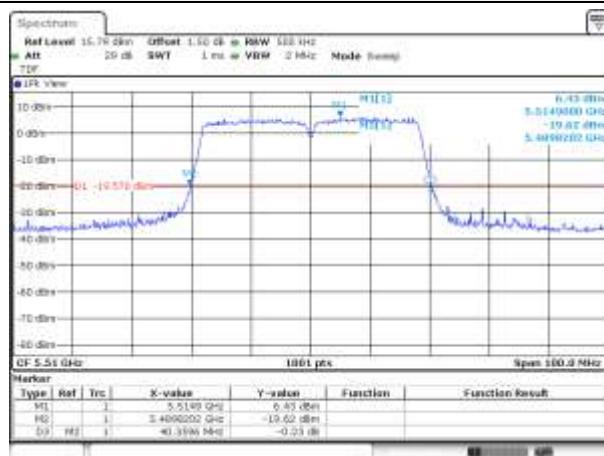
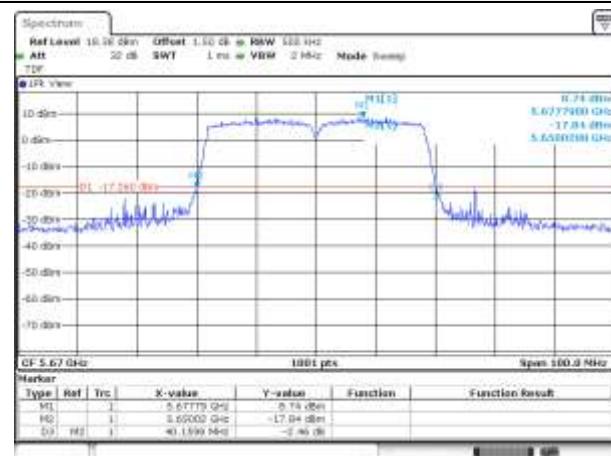
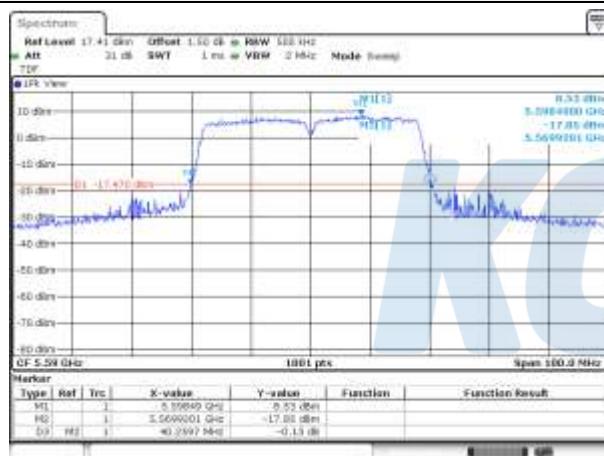
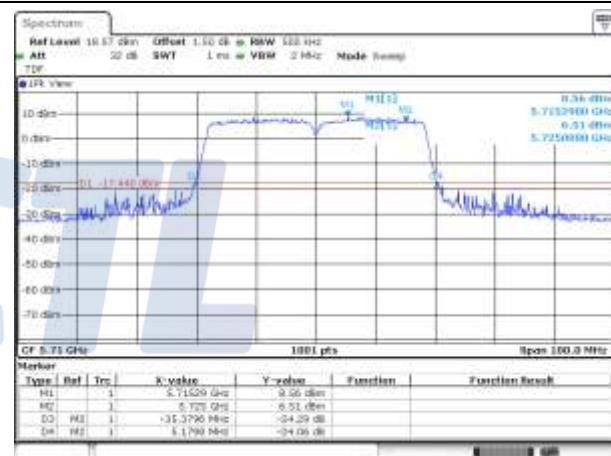
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UNII-2C / 802.11ac VHT40 / 5 510 MHz**UNII-2C / 802.11ac VHT40 / 5 670 MHz****UNII-2C / 802.11ac VHT40 / 5 590 MHz****UNII-2C / 802.11ac VHT40 / 5 710 MHz**

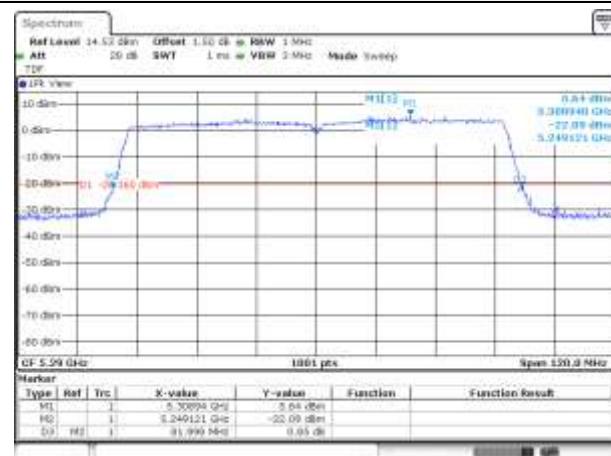
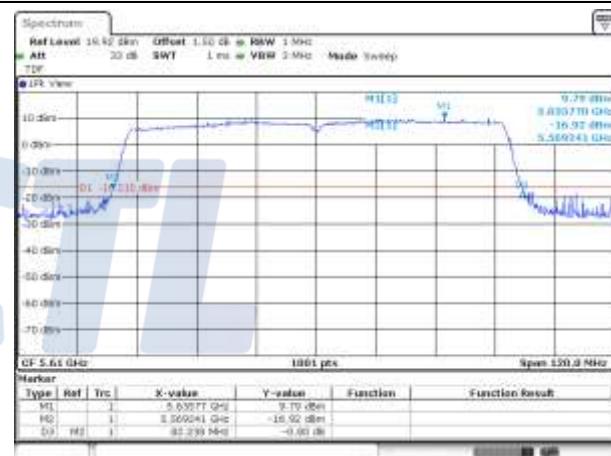
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UNII-1 / 802.11ac VHT80 / 5 210 MHz**UNII-2A / 802.11ac VHT80 / 5 290 MHz****UNII-2C / 802.11ac VHT80 / 5 530 MHz****UNII-2C / 802.11ac VHT80 / 5 610 MHz****UNII-2C / 802.11ac VHT80 / 5 690 MHz**

Blank

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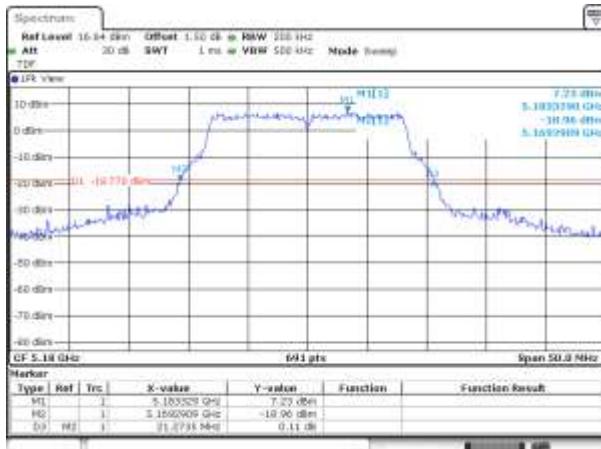
KR20-SRF0030-D

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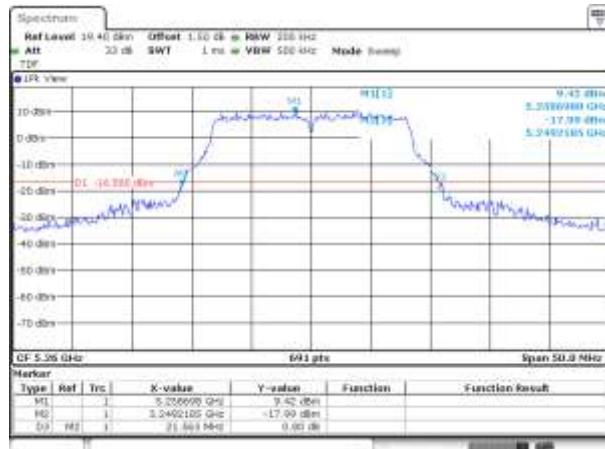
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ANT 1

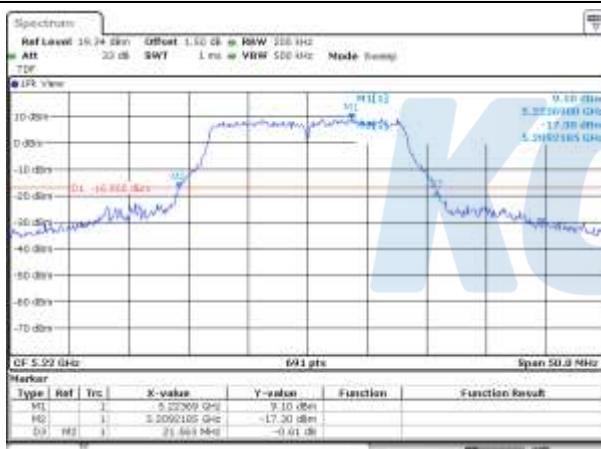
UNII-1 / 802.11a / 5 180 MHz



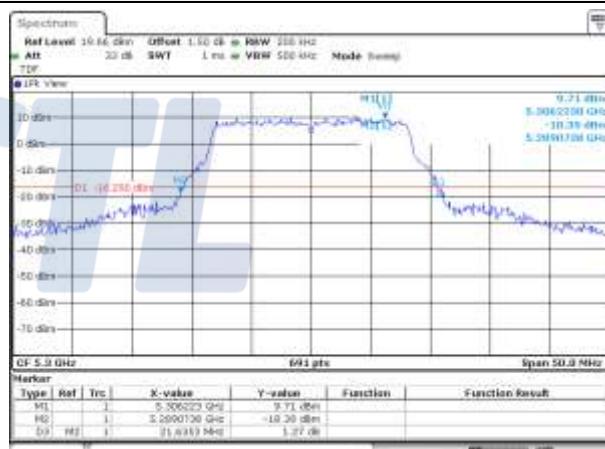
UNII-2A / 802.11a / 5 260 MHz



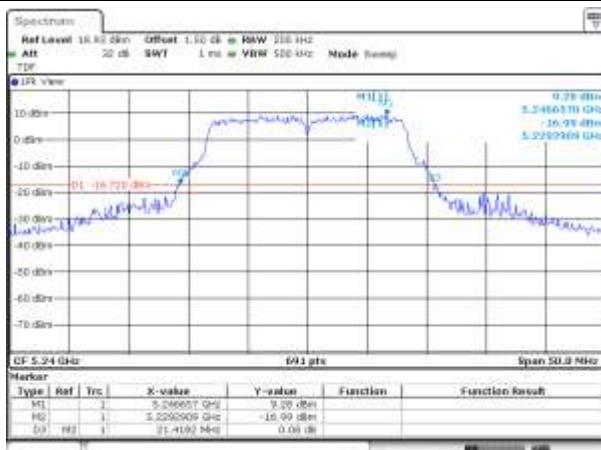
UNII-1 / 802.11a / 5 220 MHz



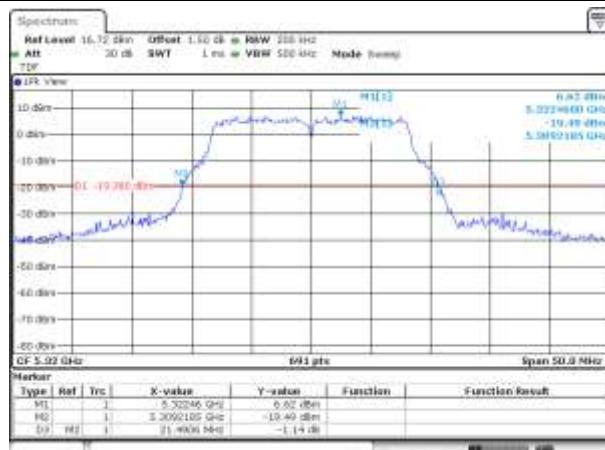
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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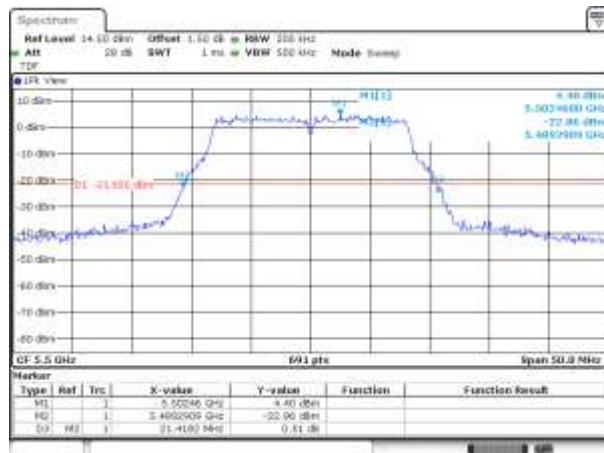
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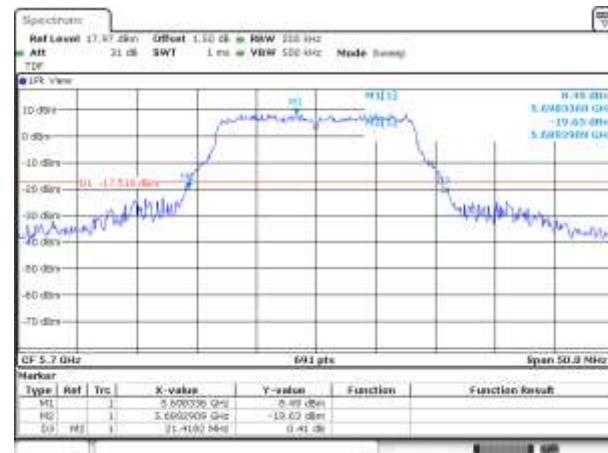
Page (271) of (1046)

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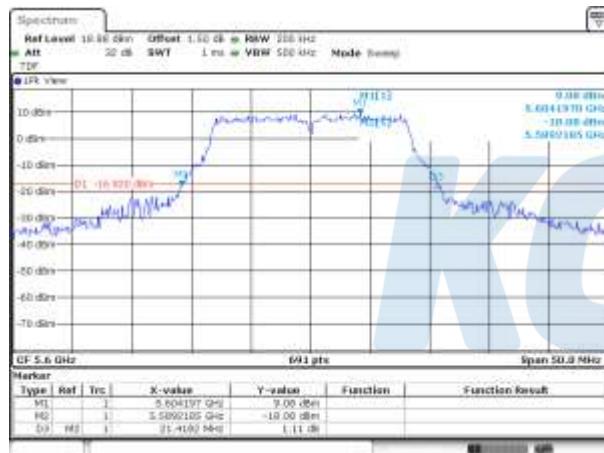
UNII-2C / 802.11a / 5 500 MHz



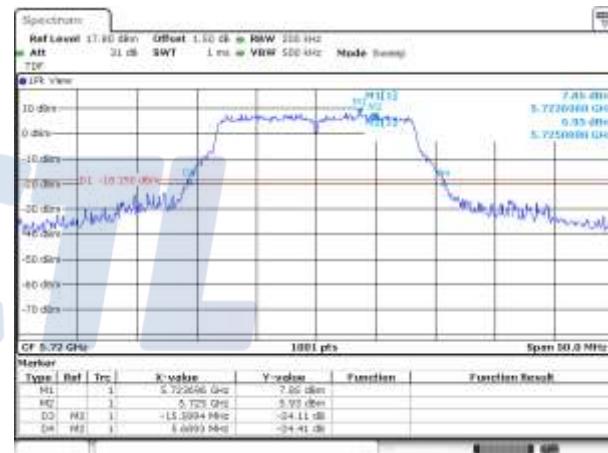
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz



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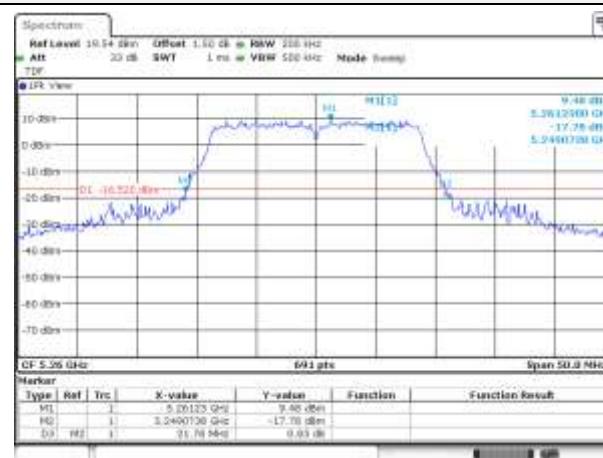
Page (272) of (1046)

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UNII-1 / 802.11n HT20 / 5 180 MHz



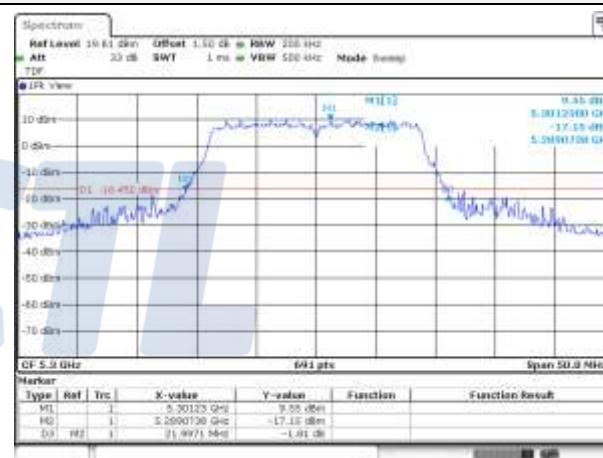
UNII-2A / 802.11n HT20 / 5 260 MHz



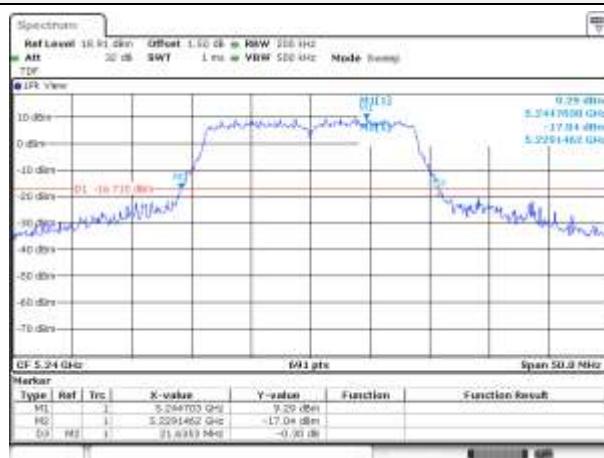
UNII-1 / 802.11n HT20 / 5 220 MHz



UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



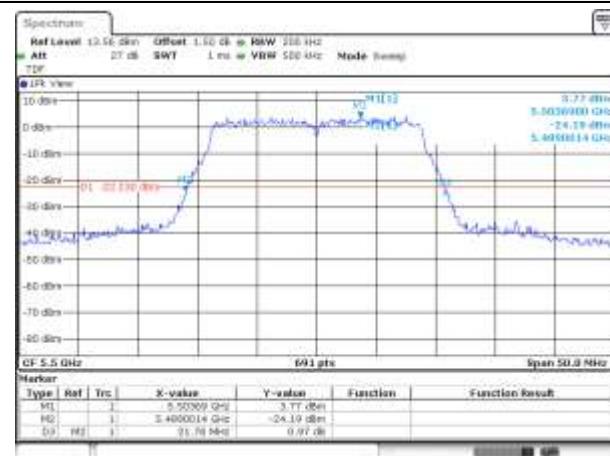
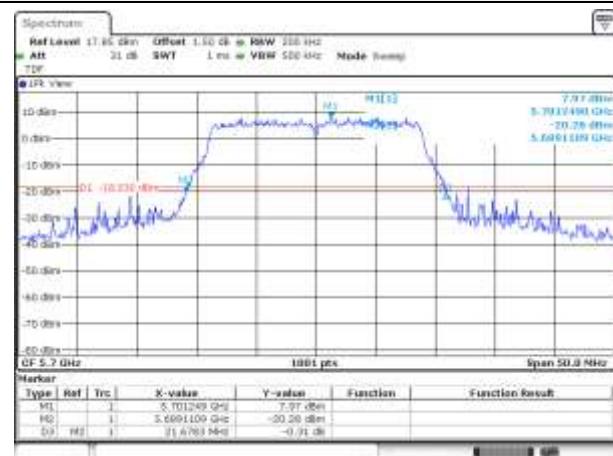
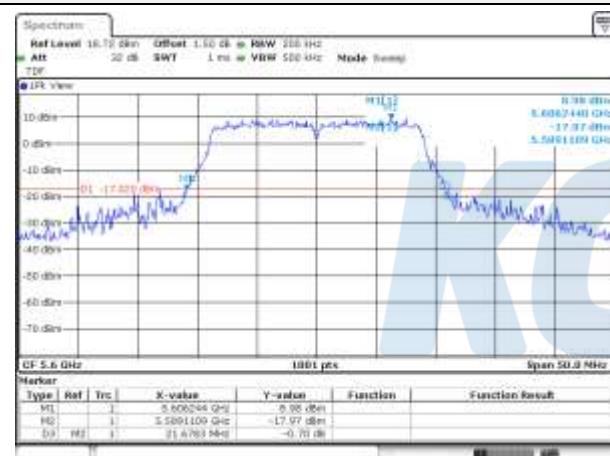
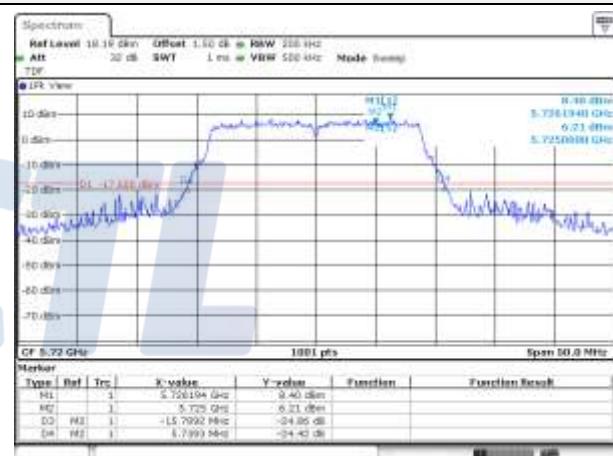
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UNII-2C / 802.11n HT20 / 5 500 MHz**UNII-2C / 802.11n HT20 / 5 700 MHz****UNII-2C / 802.11n HT20 / 5 600 MHz****UNII-2C / 802.11n HT20 / 5 720 MHz**

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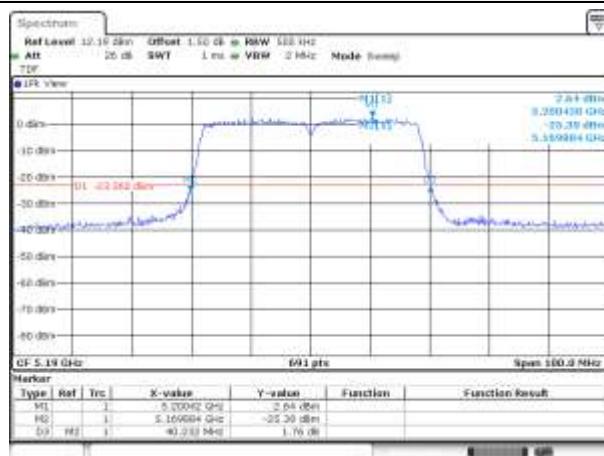
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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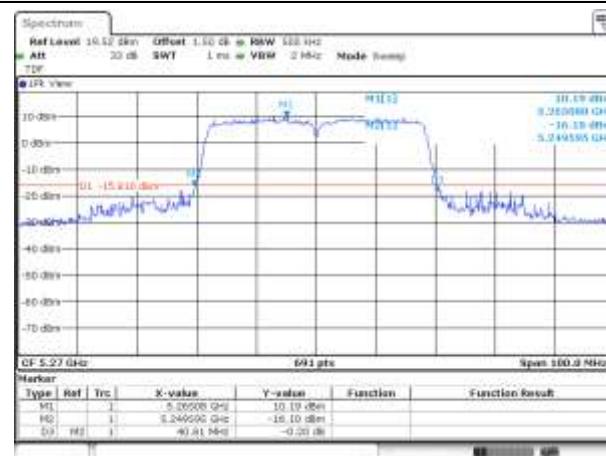
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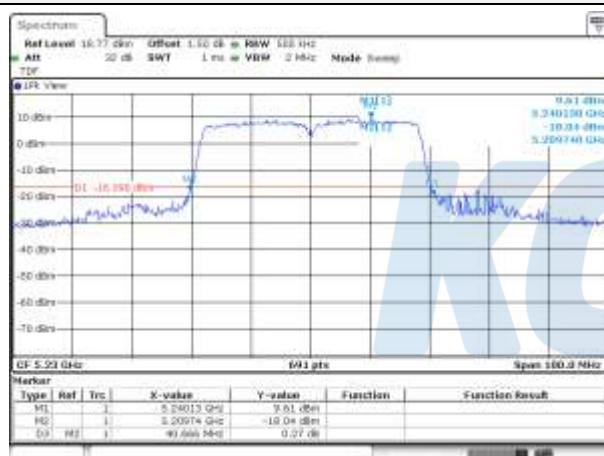
UNII-1 / 802.11n HT40 / 5 190 MHz



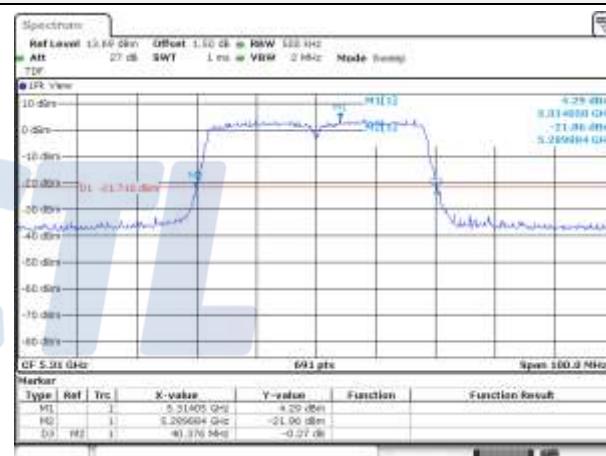
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



UNII-2A / 802.11n HT40 / 5 310 MHz



KCTL Inc.

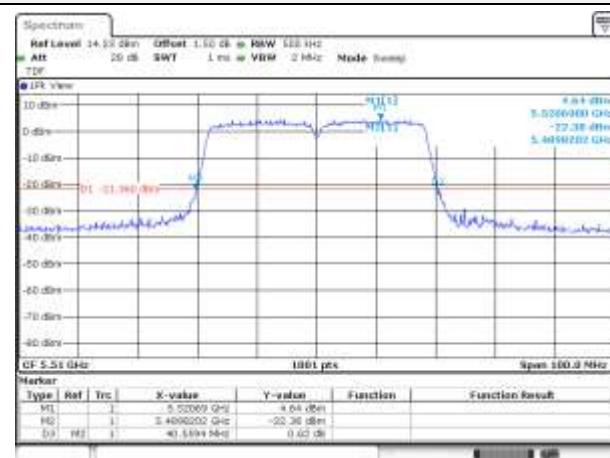
65, Sinwon-ro, Yeongtong-gu,
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TEL: 82-31-285-0894 FAX: 82-505-299-8311
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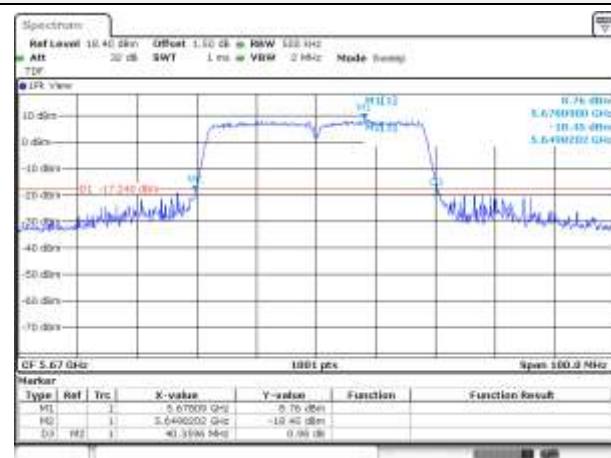
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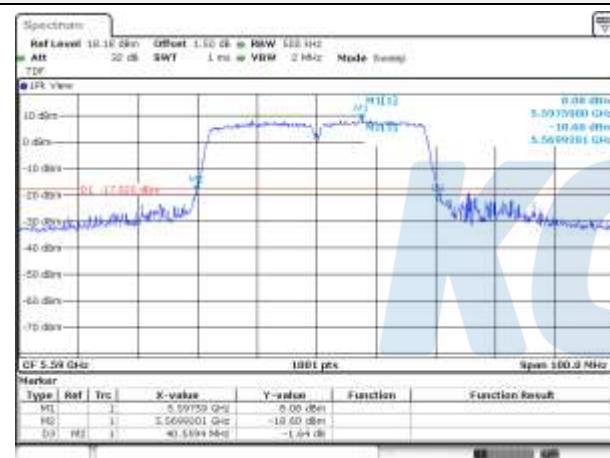
UNII-2C / 802.11n HT40 / 5 510 MHz



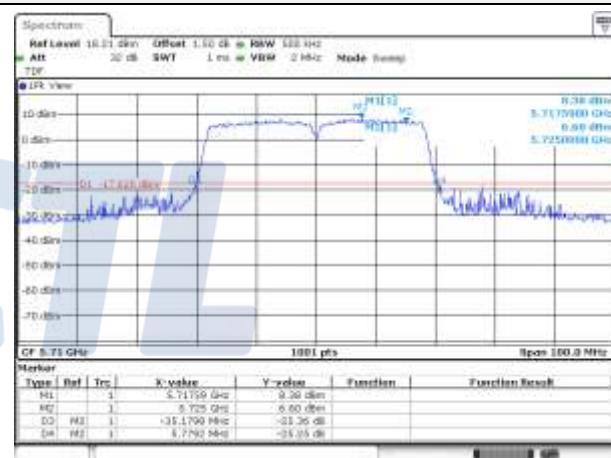
UNII-2C / 802.11n HT40 / 5 670 MHz



UNII-2C / 802.11n HT40 / 5 590 MHz



UNII-2C / 802.11n HT40 / 5 710 MHz



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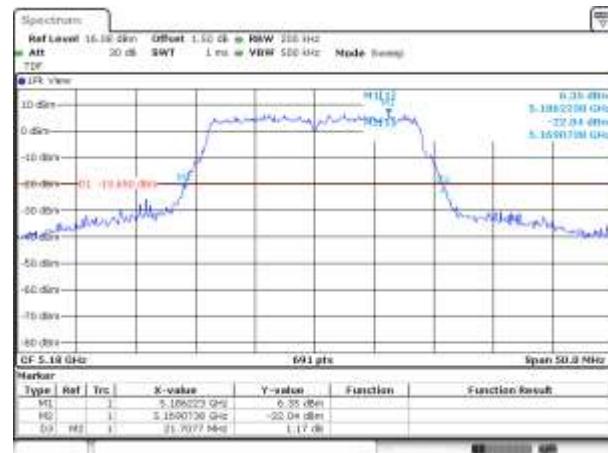
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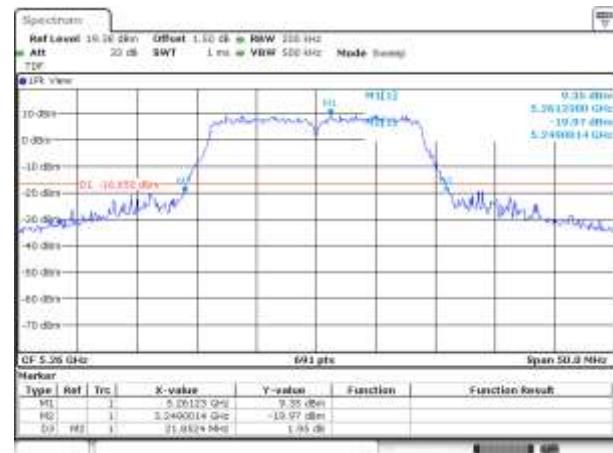
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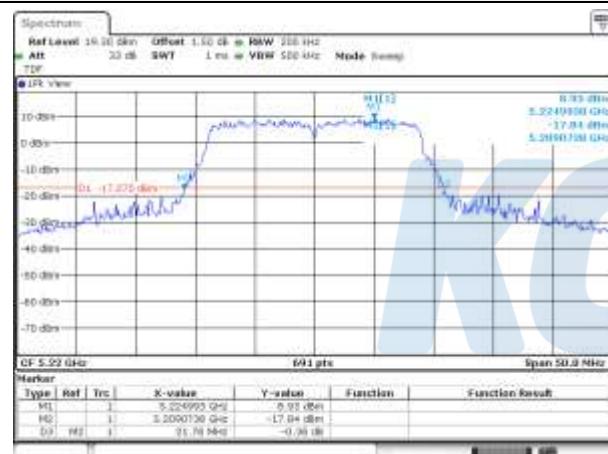
UNII-1 / 802.11ac VHT20 / 5 180 MHz



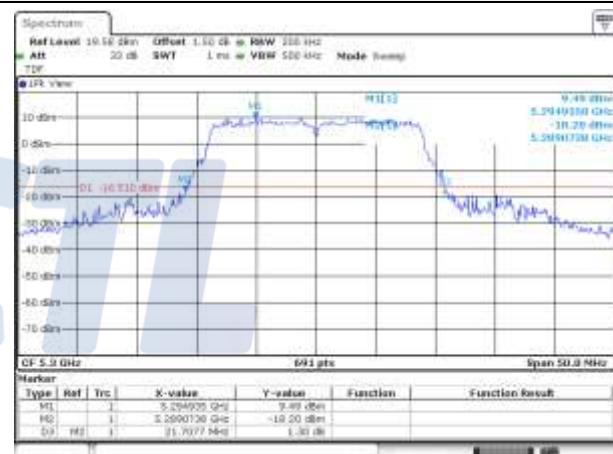
UNII-2A / 802.11ac VHT20 / 5 260 MHz



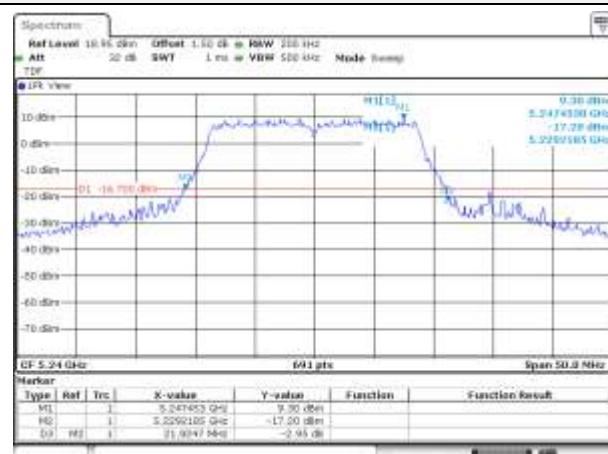
UNII-1 / 802.11ac VHT20 / 5 220 MHz



UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



UNII-2A / 802.11ac VHT20 / 5 320 MHz



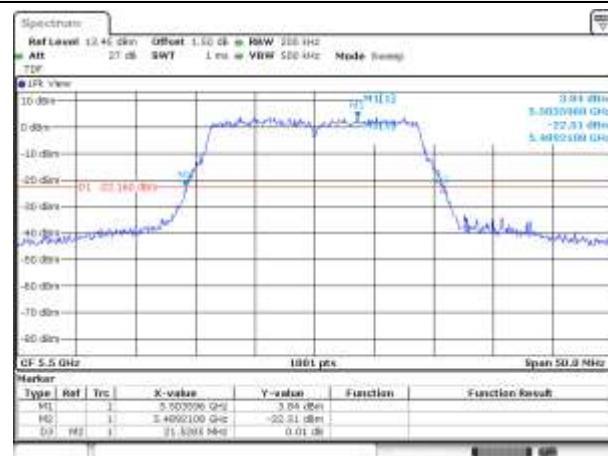
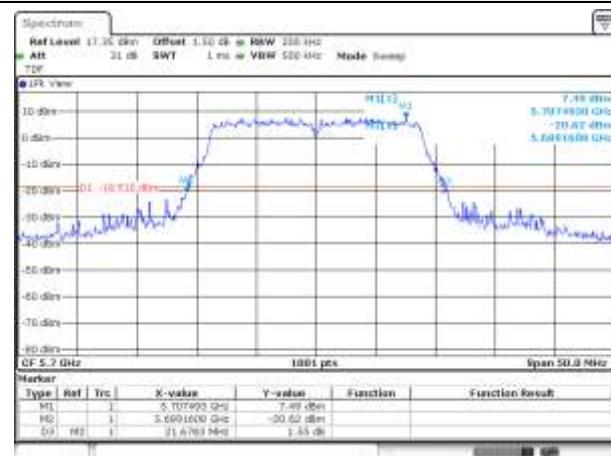
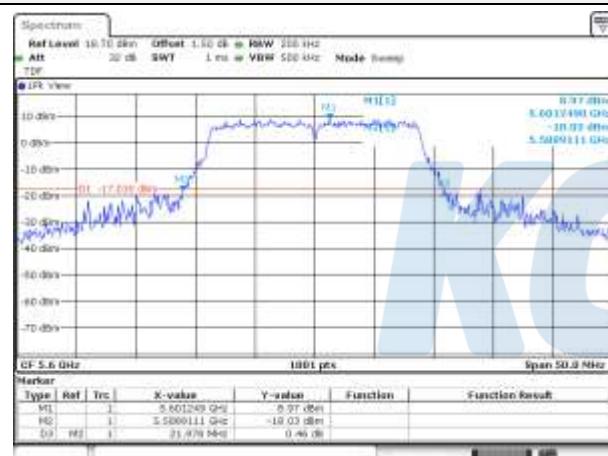
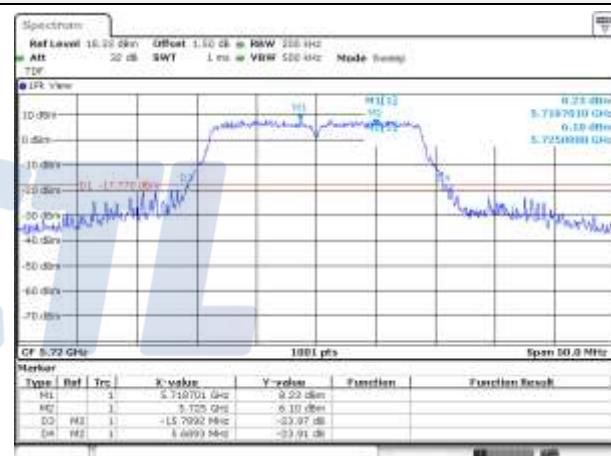
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UNII-2C / 802.11ac VHT20 / 5 500 MHz**UNII-2C / 802.11ac VHT20 / 5 700 MHz****UNII-2C / 802.11ac VHT20 / 5 600 MHz****UNII-2C / 802.11ac VHT20 / 5 720 MHz**

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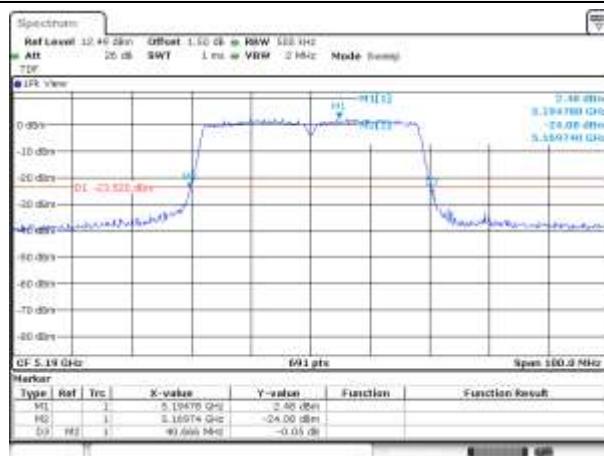
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TEL: 82-31-285-0894 FAX: 82-505-299-8311
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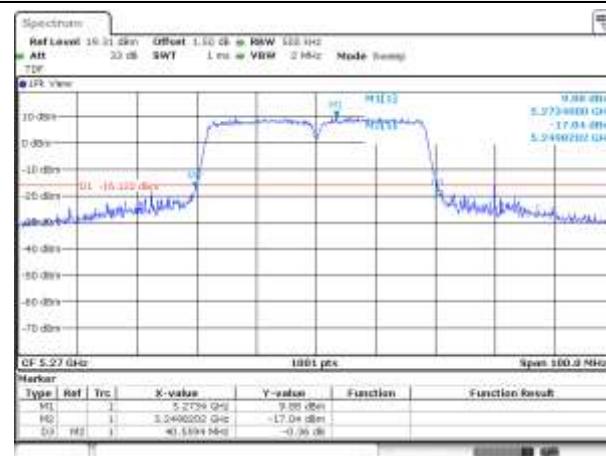
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UNII-1 / 802.11ac VHT40 / 5 190 MHz



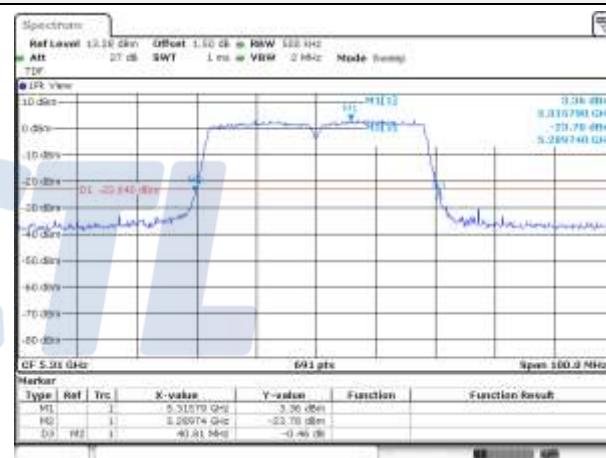
UNII-2A / 802.11ac VHT40 / 5 270 MHz



UNII-1 / 802.11ac VHT40 / 5 230 MHz



UNII-2A / 802.11ac VHT40 / 5 310 MHz



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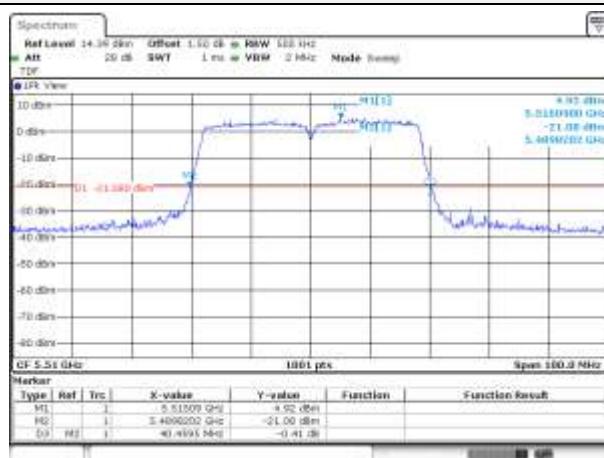
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Suwon-si, Gyeonggi-do, 16677, Korea
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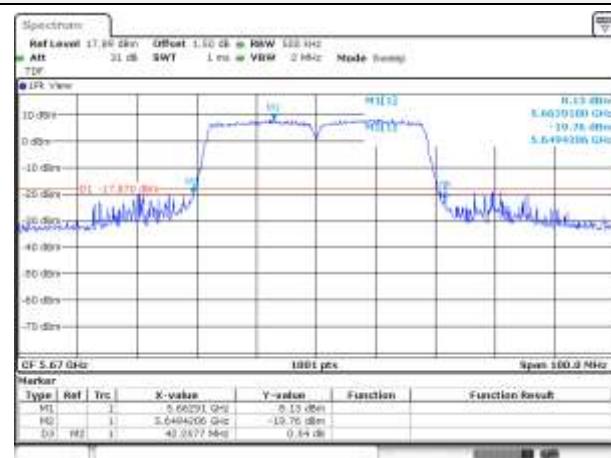
Page (279) of (1046)

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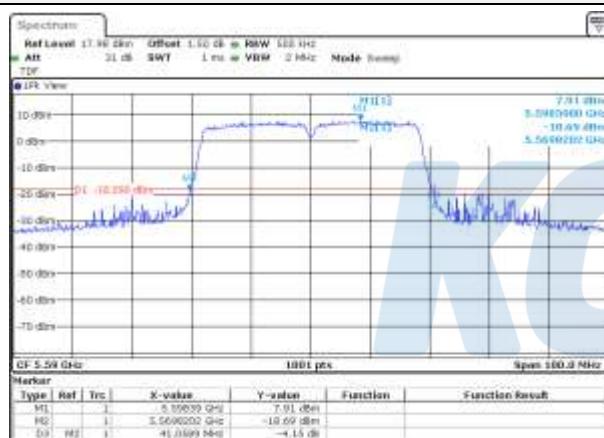
UNII-2C / 802.11ac VHT40 / 5 510 MHz



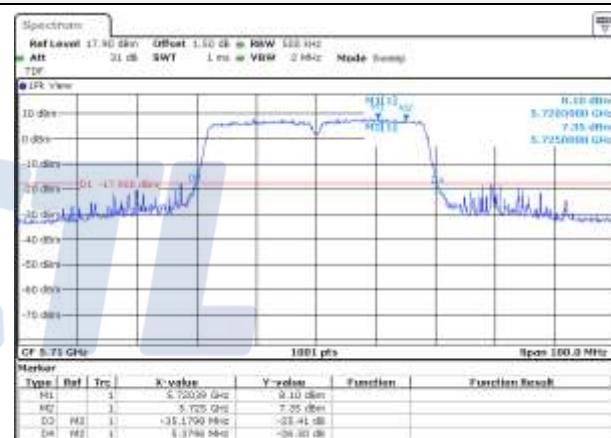
UNII-2C / 802.11ac VHT40 / 5 670 MHz



UNII-2C / 802.11ac VHT40 / 5 590 MHz



UNII-2C / 802.11ac VHT40 / 5 710 MHz



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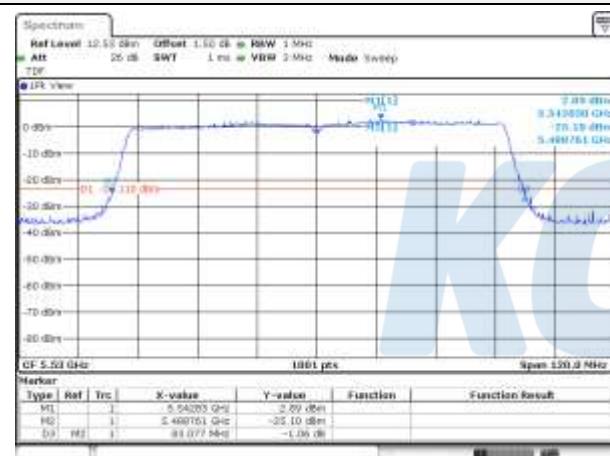
UNII-1 / 802.11ac VHT80 / 5 210 MHz



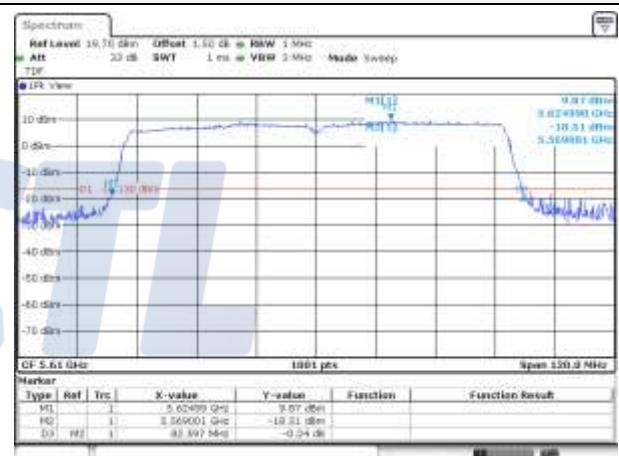
UNII-2A / 802.11ac VHT80 / 5 290 MHz



UNII-2C / 802.11ac VHT80 / 5 530 MHz



UNII-2C / 802.11ac VHT80 / 5 610 MHz



UNII-2C / 802.11ac VHT80 / 5 690 MHz



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ANT 2

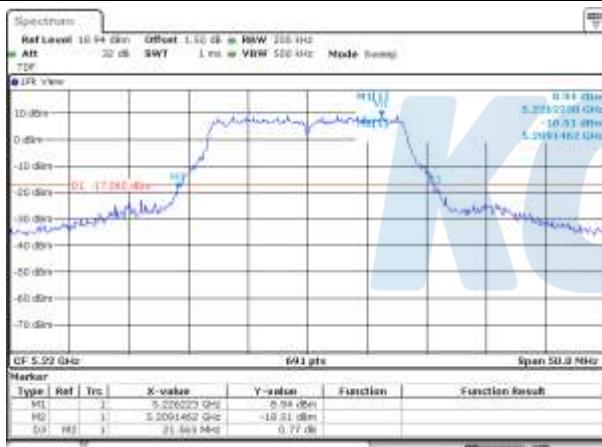
UNII-1 / 802.11a / 5 180 MHz



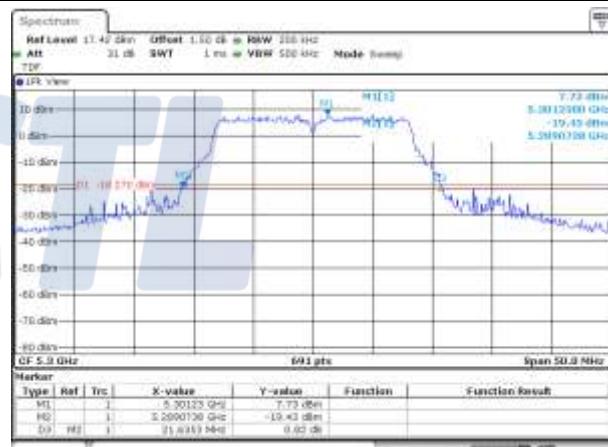
UNII-2A / 802.11a / 5 260 MHz



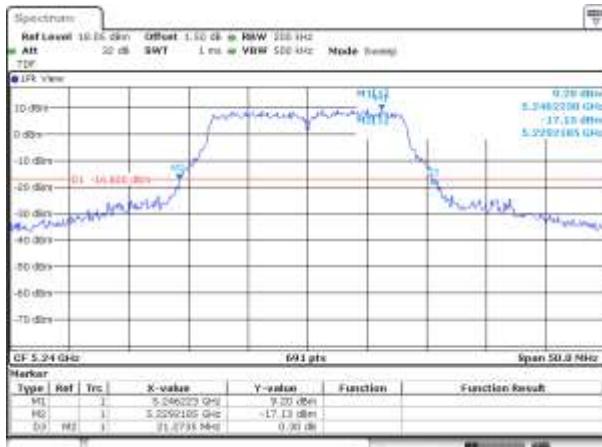
UNII-1 / 802.11a / 5 220 MHz



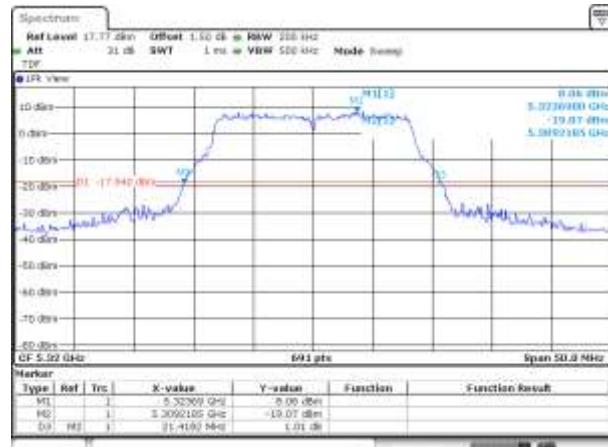
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



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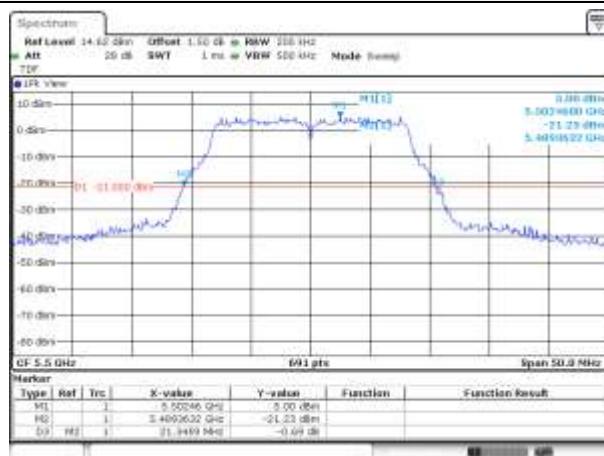
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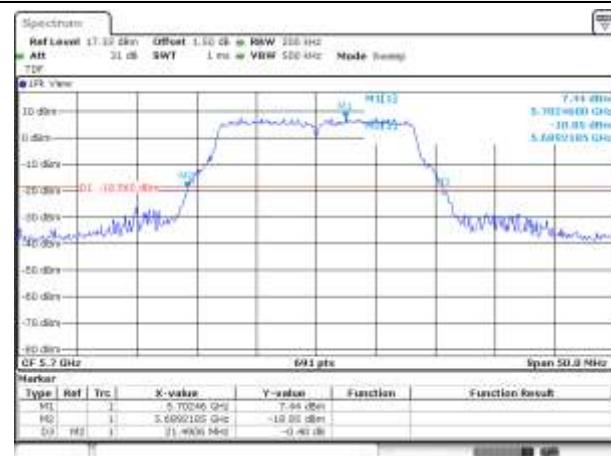
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UNII-2C / 802.11a / 5 500 MHz



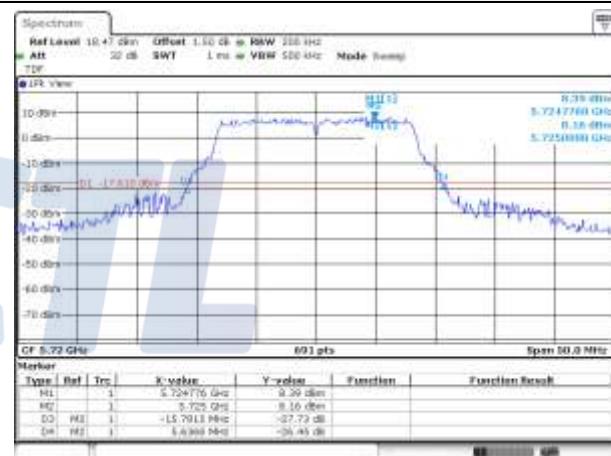
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz



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UNII-1 / 802.11n HT20 / 5 180 MHz



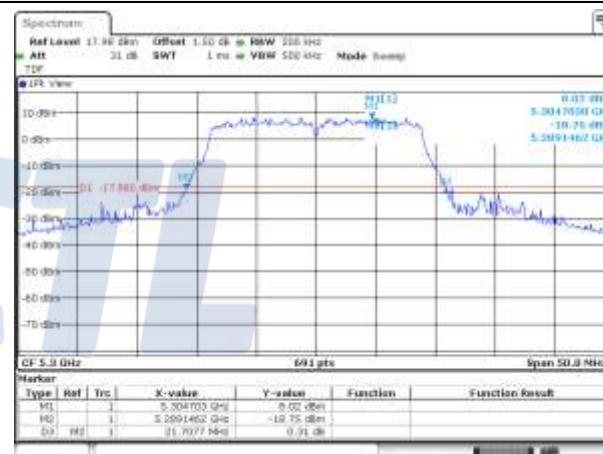
UNII-2A / 802.11n HT20 / 5 260 MHz



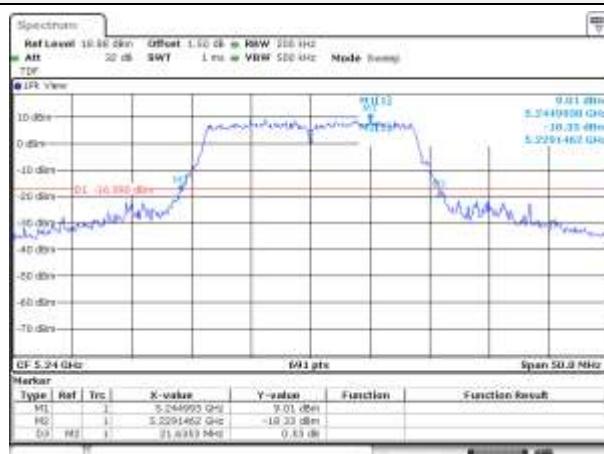
UNII-1 / 802.11n HT20 / 5 220 MHz



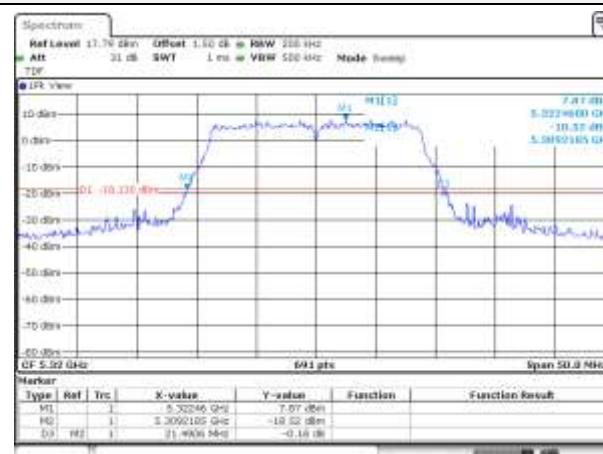
UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



UNII-2A / 802.11n HT20 / 5 320 MHz



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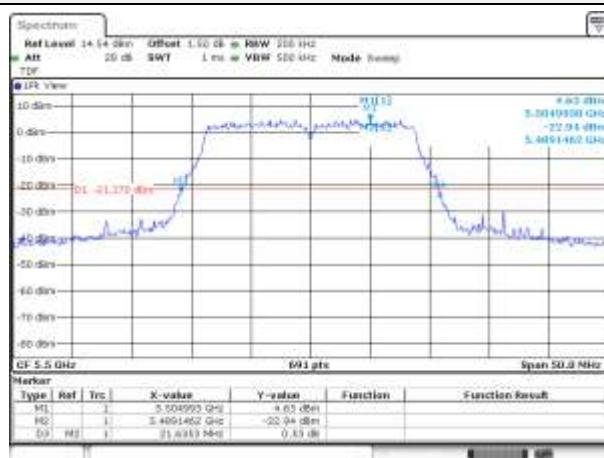
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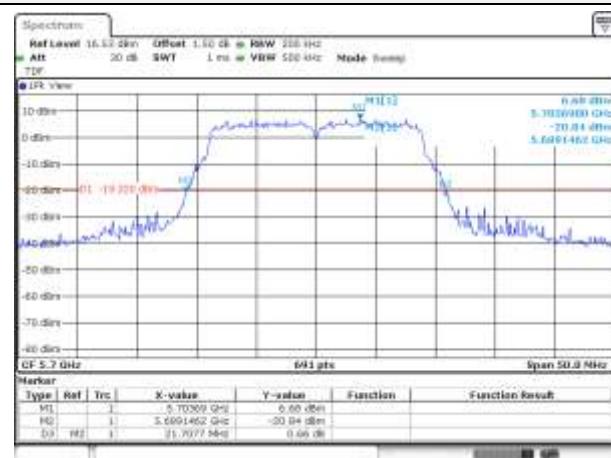
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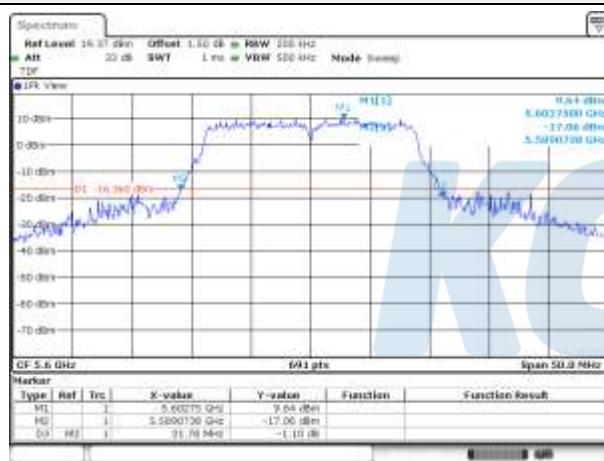
UNII-2C / 802.11n HT20 / 5 500 MHz



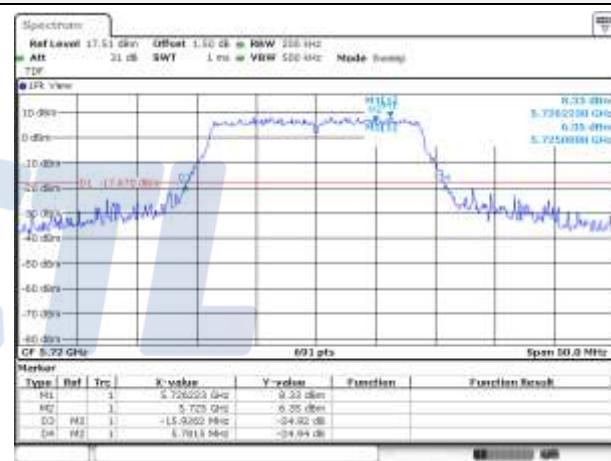
UNII-2C / 802.11n HT20 / 5 700 MHz



UNII-2C / 802.11n HT20 / 5 600 MHz



UNII-2C / 802.11n HT20 / 5 720 MHz



KCTL Inc.

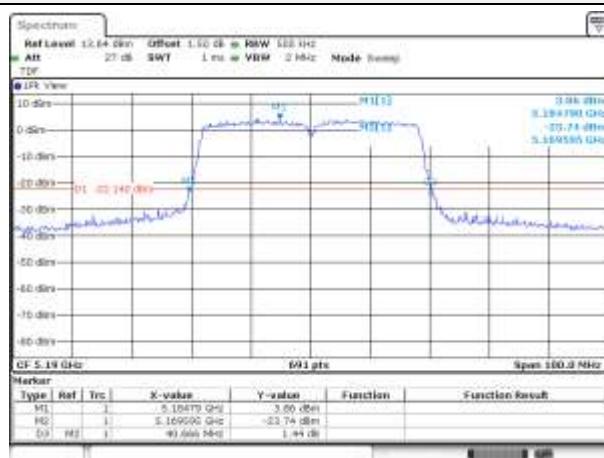
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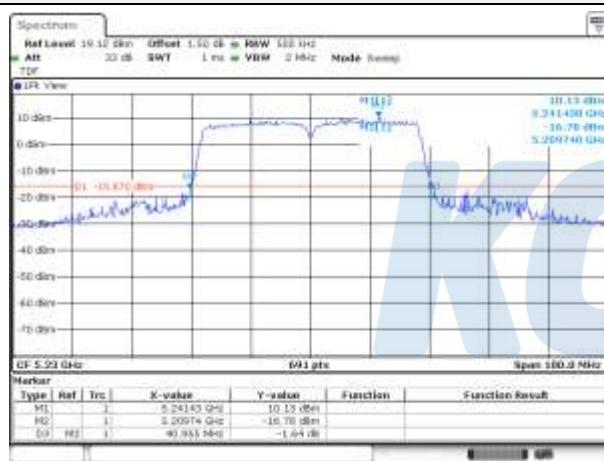
UNII-1 / 802.11n HT40 / 5 190 MHz



UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



UNII-2A / 802.11n HT40 / 5 310 MHz

