

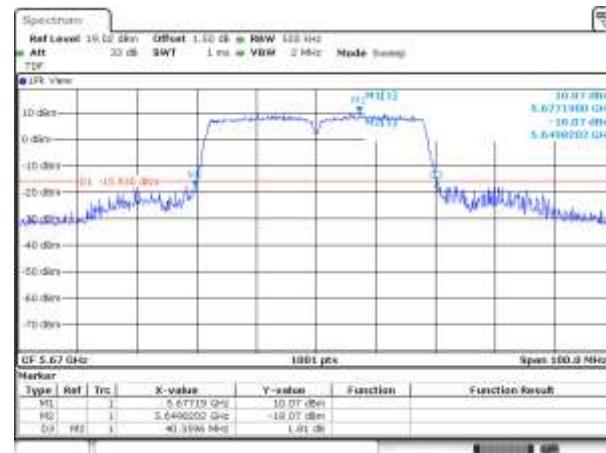
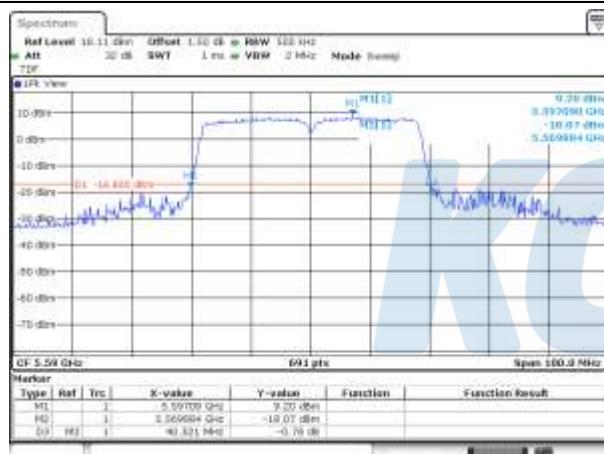
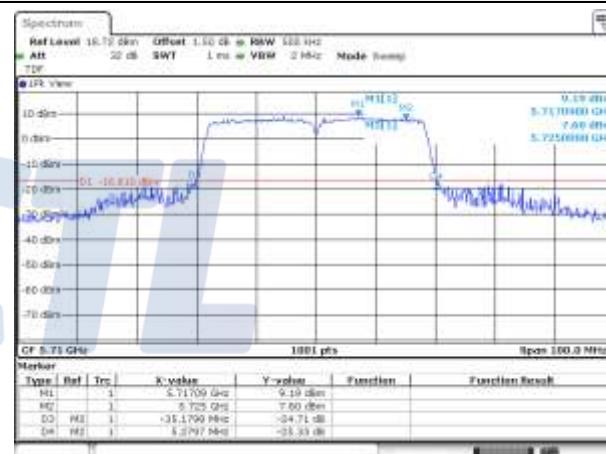
KCTL Inc.

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

Page (286) of (1046)

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**

KCTL Inc.

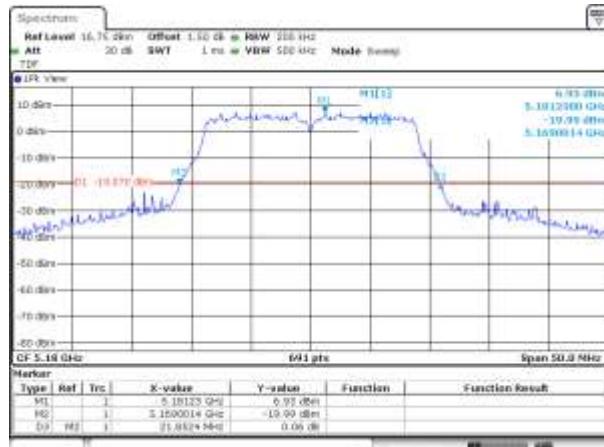
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (287) of (1046)

KCTL

UNII-1 / 802.11ac VHT20 / 5 180 MHz



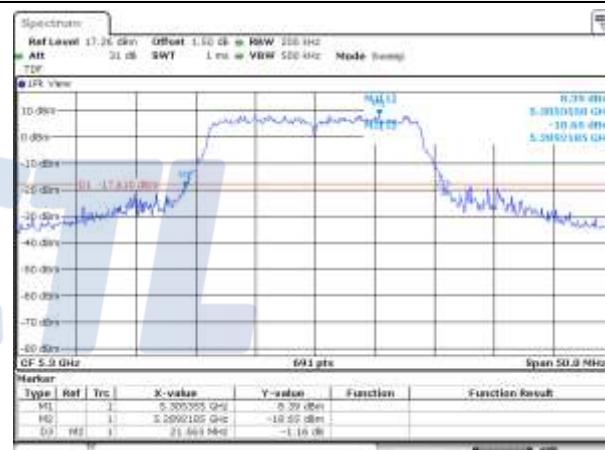
UNII-2A / 802.11ac VHT20 / 5 260 MHz



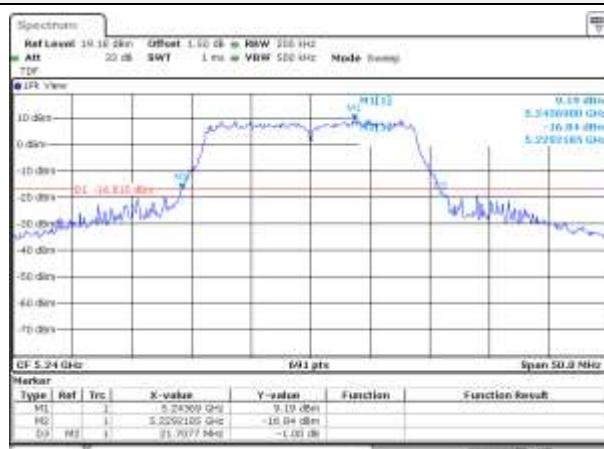
UNII-1 / 802.11ac VHT20 / 5 220 MHz



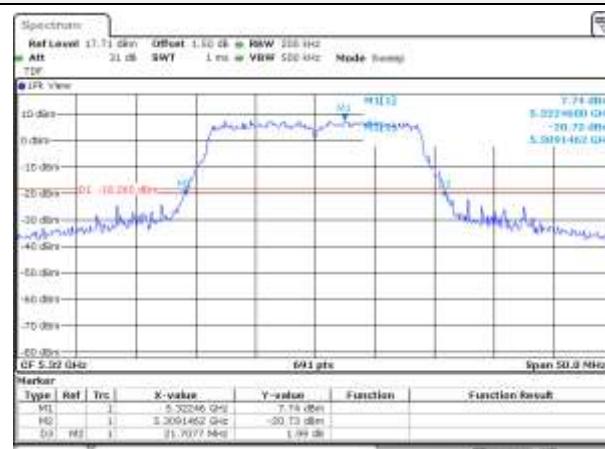
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



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



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

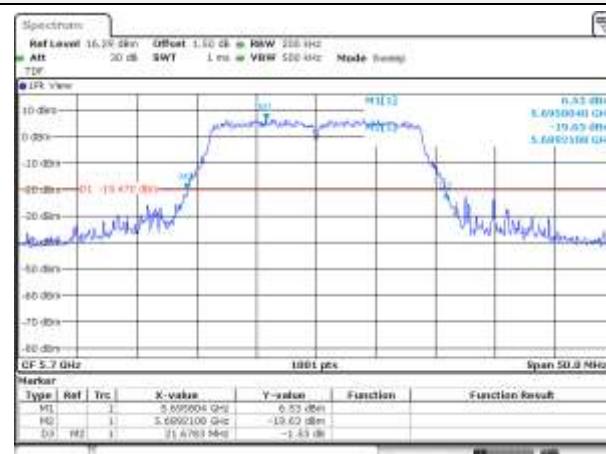
Page (288) of (1046)

KCTL

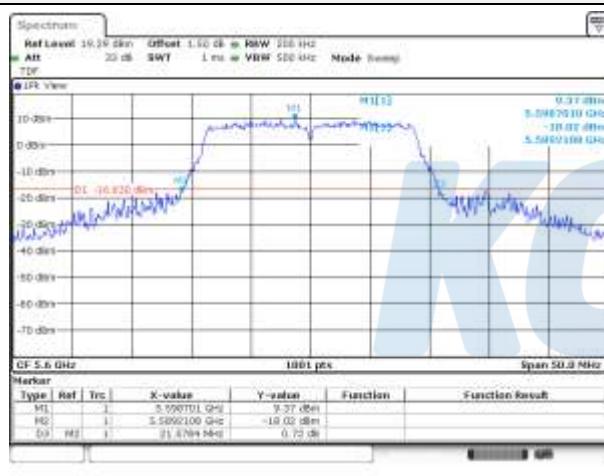
UNII-2C / 802.11ac VHT20 / 5 500 MHz



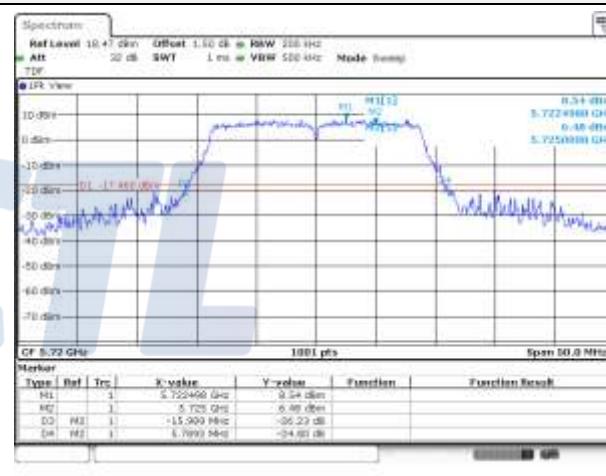
UNII-2C / 802.11ac VHT20 / 5 700 MHz



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



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



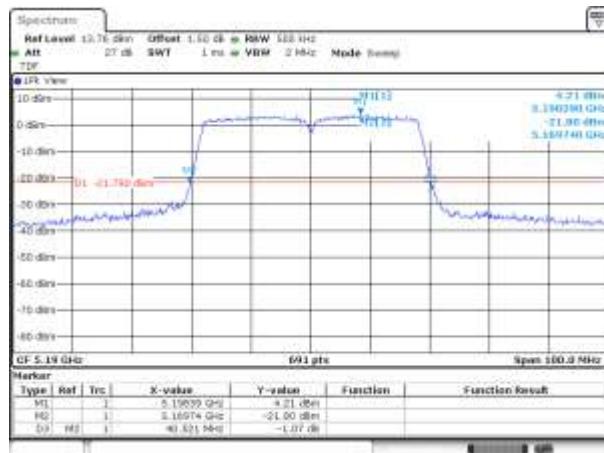
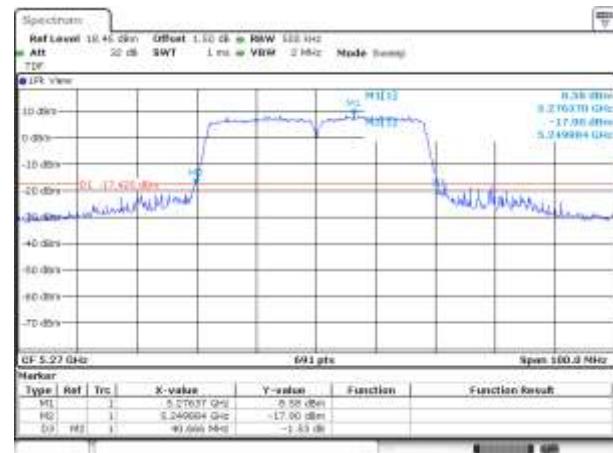
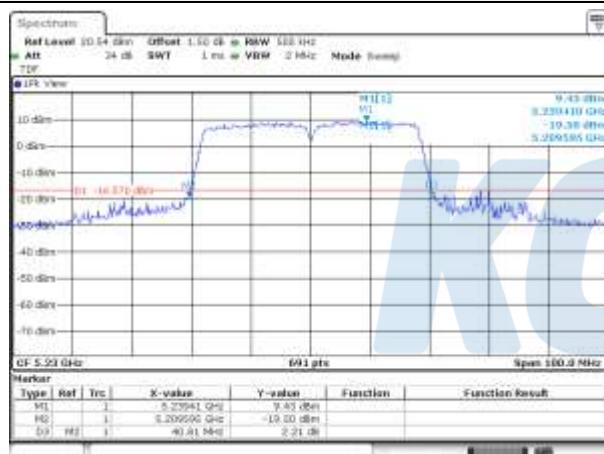
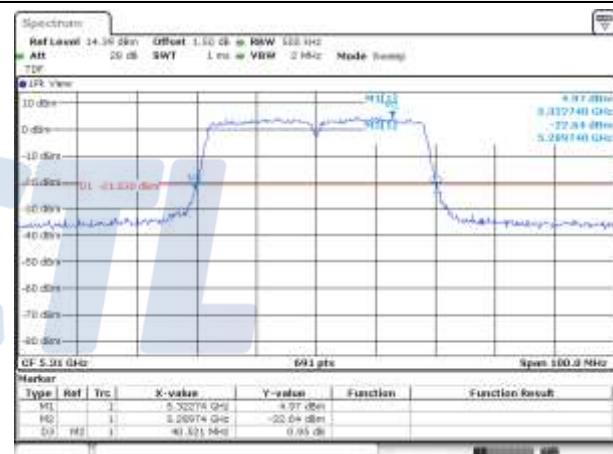
KCTL Inc.

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

Page (289) of (1046)

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**

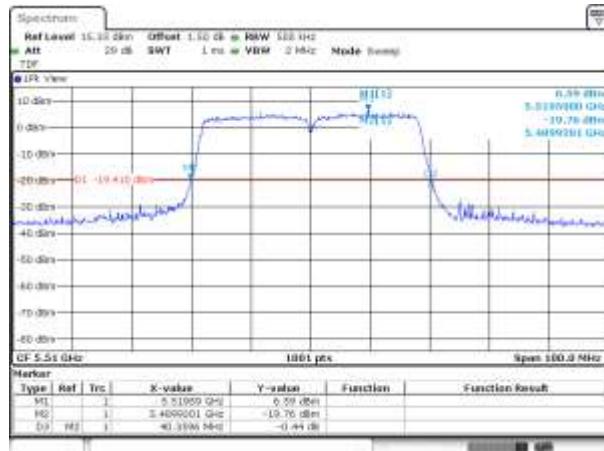
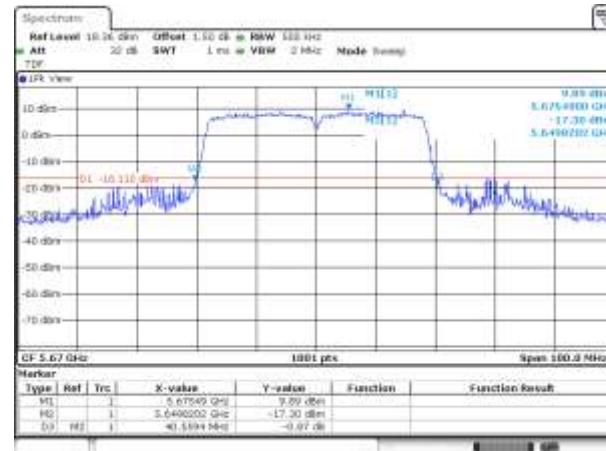
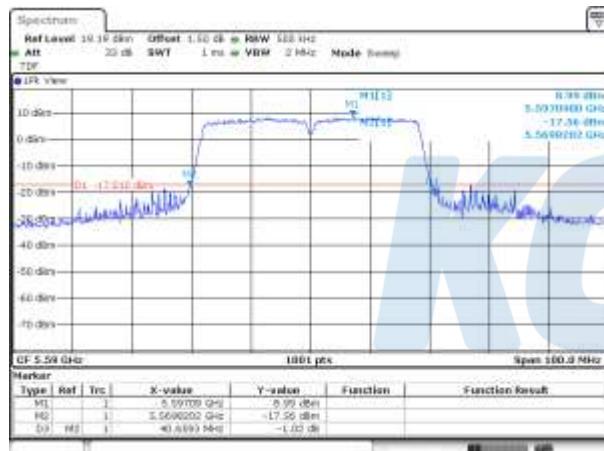
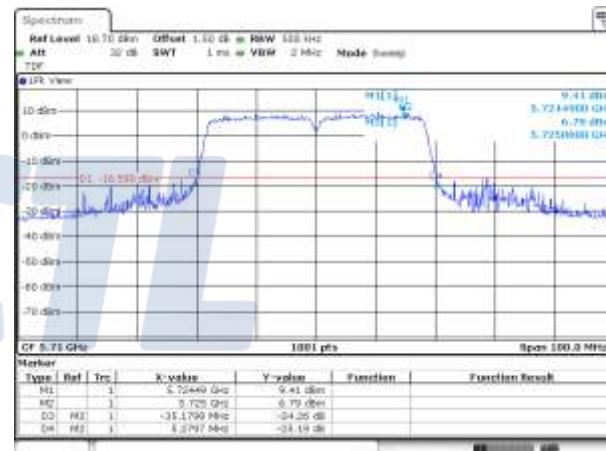
KCTL Inc.

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

Page (290) of (1046)

KCTL

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**

KCTL Inc.

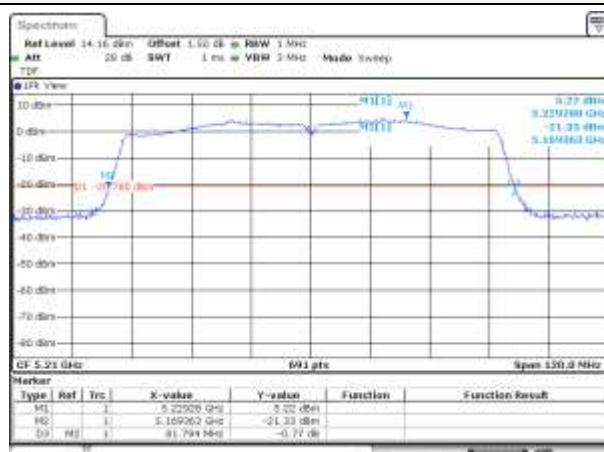
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

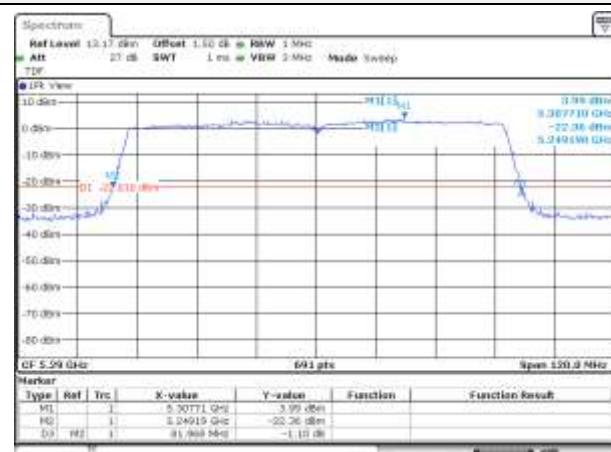
Page (291) of (1046)

KCTL

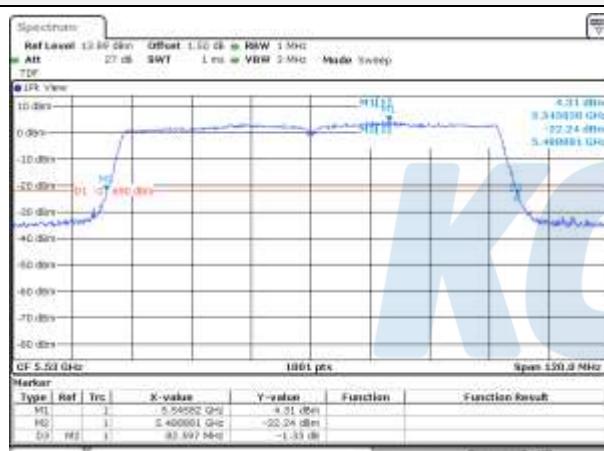
UNII-1 / 802.11ac VHT80 / 5 210 MHz



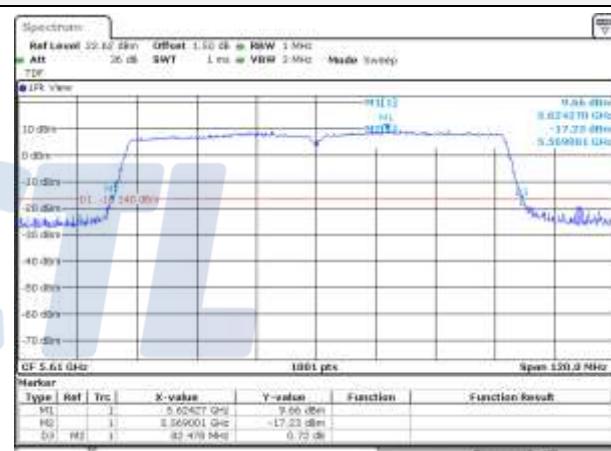
UNII-2A / 802.11ac VHT80 / 5 290 MHz



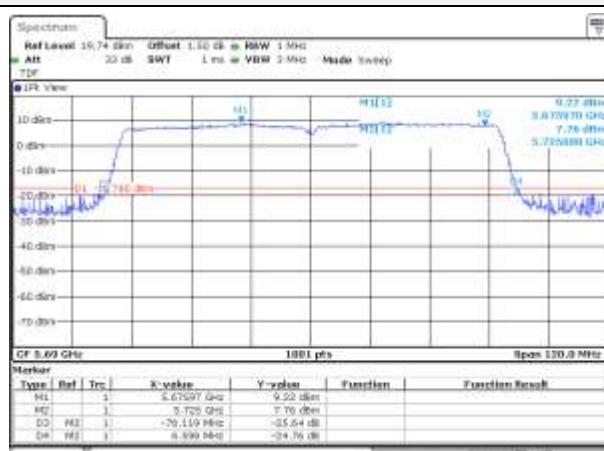
UNII-2C / 802.11ac VHT80 / 5 530 MHz



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



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



Blank

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.:

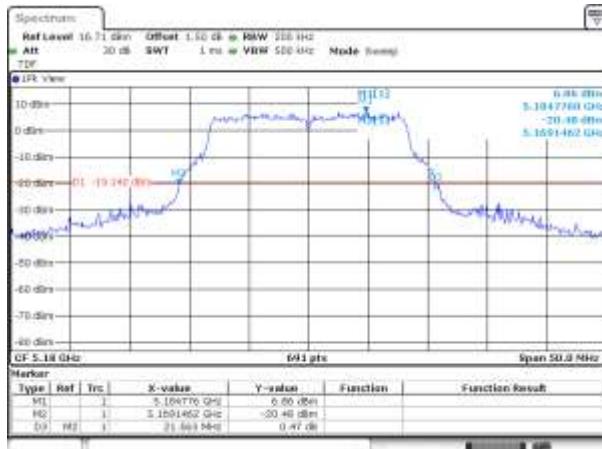
KR20-SRF0030-D

Page (292) of (1046)

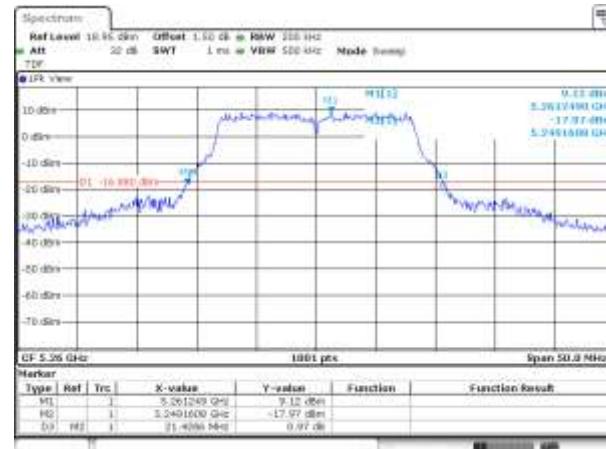
KCTL

ANT 3

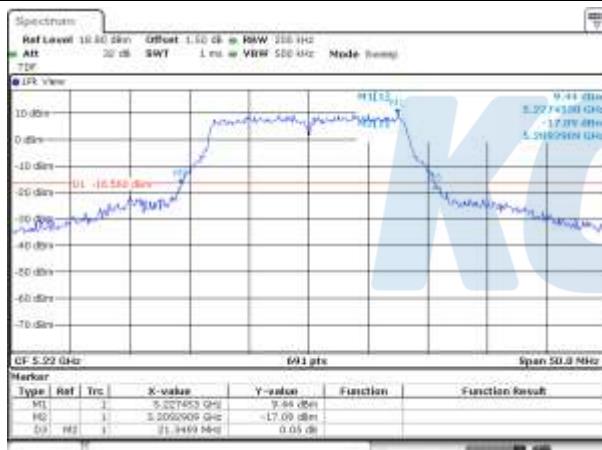
UNII-1 / 802.11a / 5 180 MHz



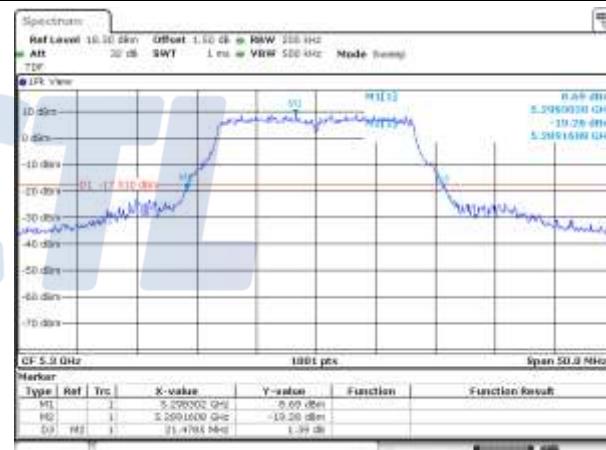
UNII-2A / 802.11a / 5 260 MHz



UNII-1 / 802.11a / 5 220 MHz



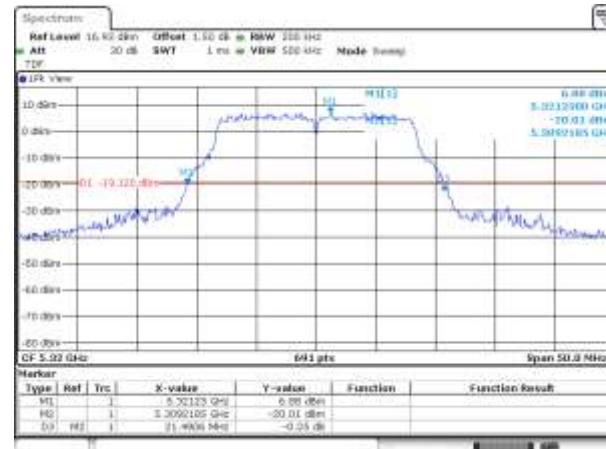
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



KCTL Inc.

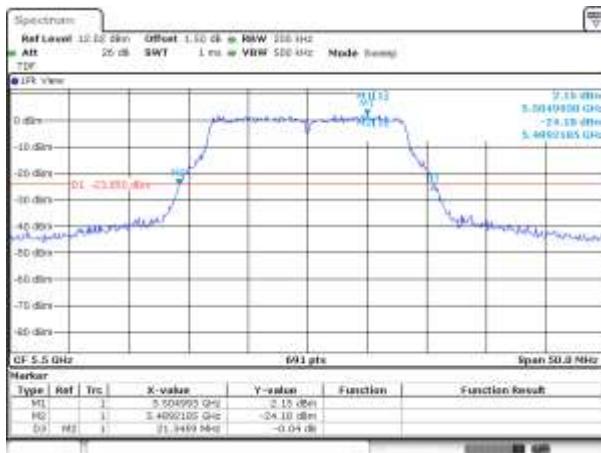
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

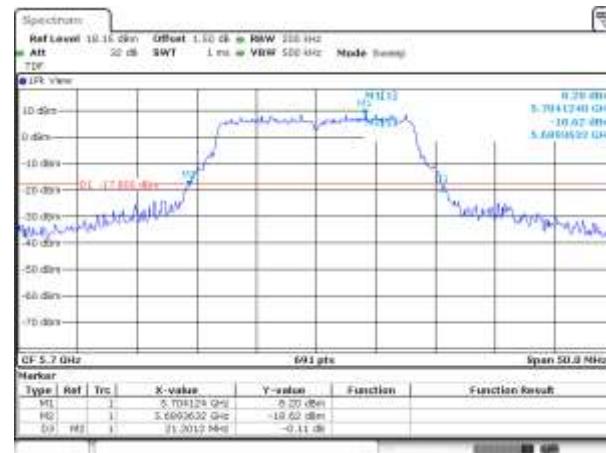
Page (293) of (1046)

KCTL

UNII-2C / 802.11a / 5 500 MHz



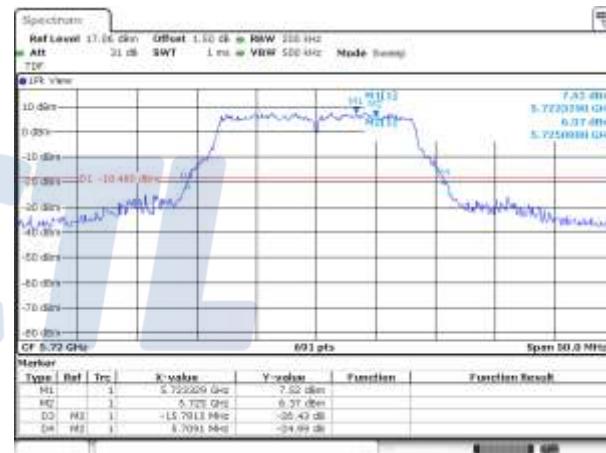
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz



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.:

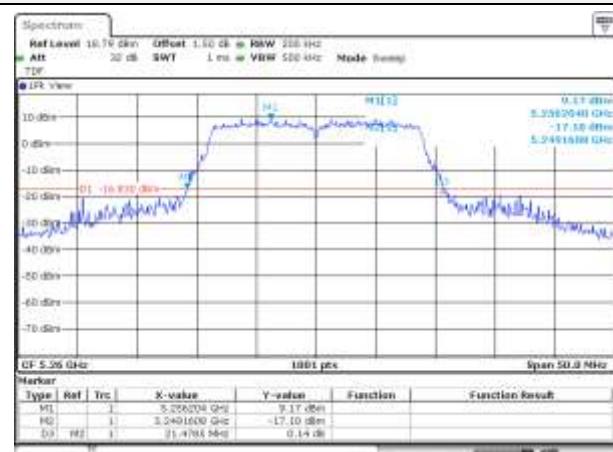
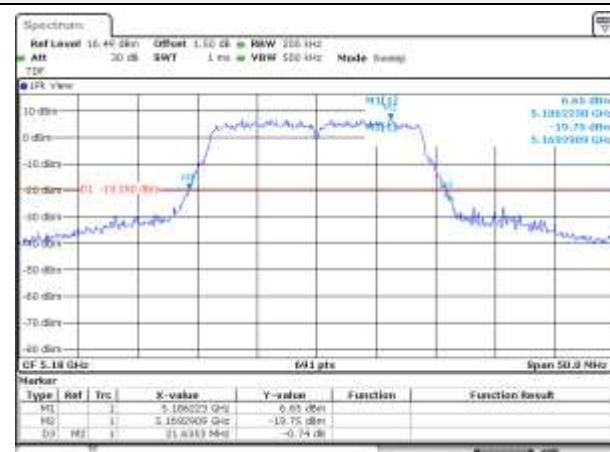
KR20-SRF0030-D

Page (294) of (1046)

KCTL

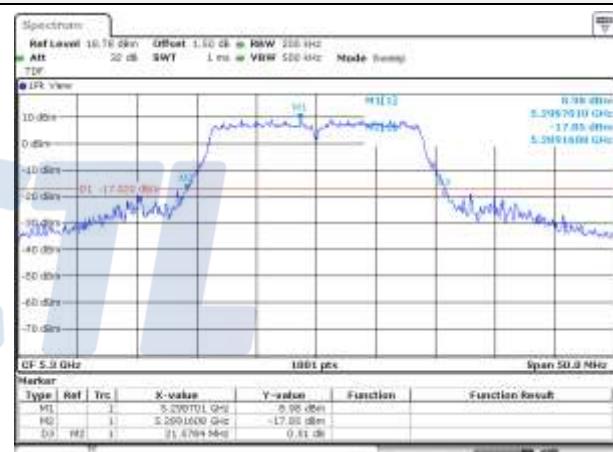
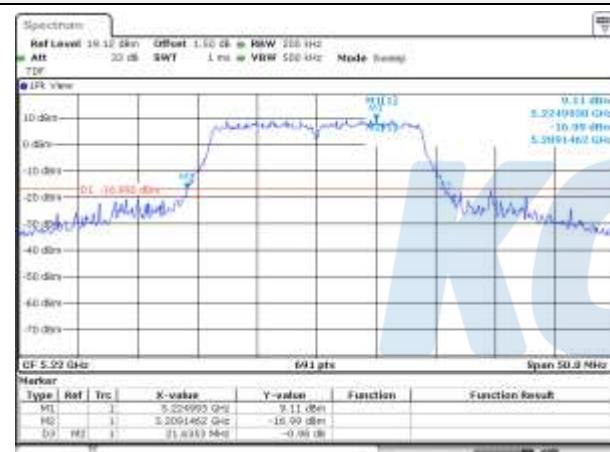
UNII-1 / 802.11n HT20 / 5 180 MHz

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



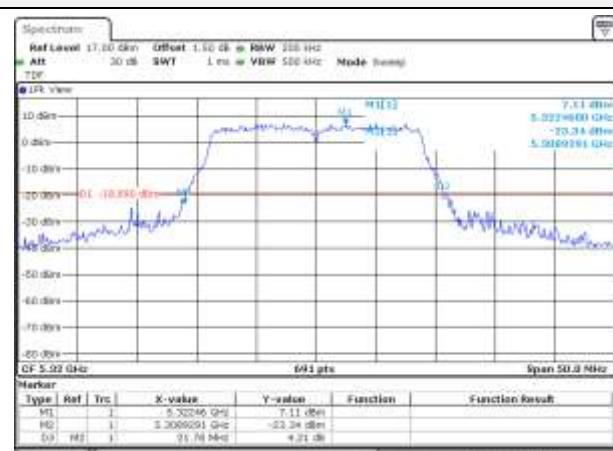
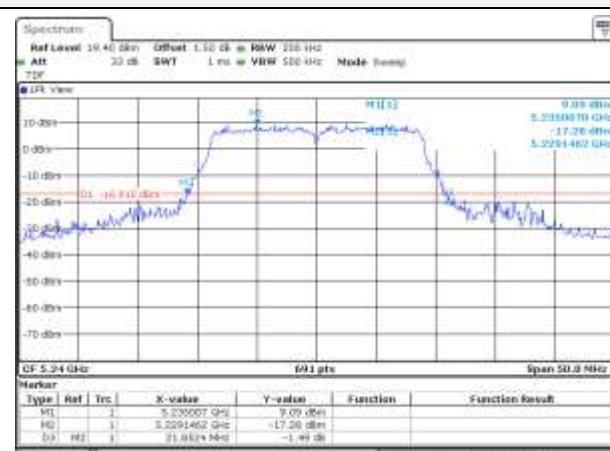
UNII-1 / 802.11n HT20 / 5 220 MHz

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.

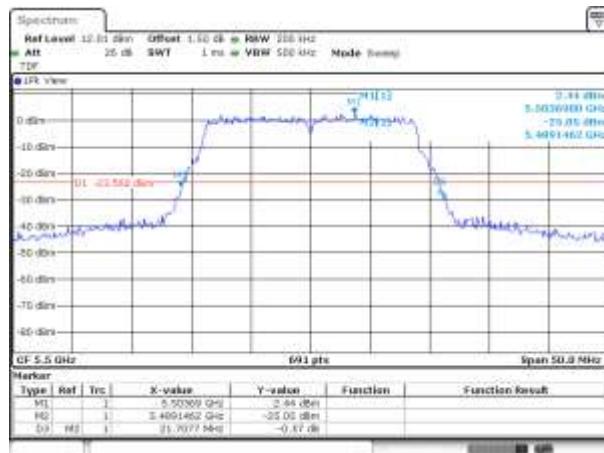
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

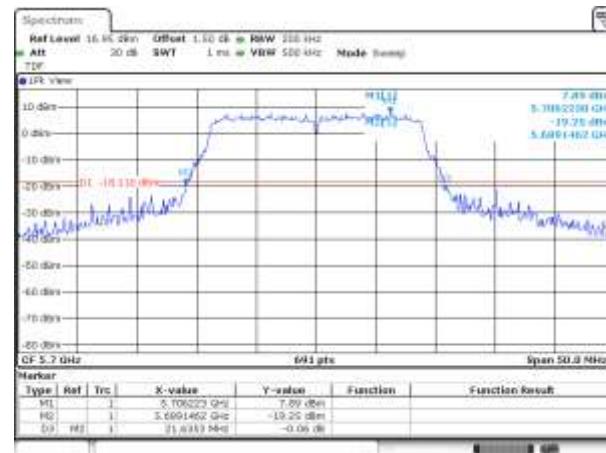
Page (295) of (1046)

KCTL

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



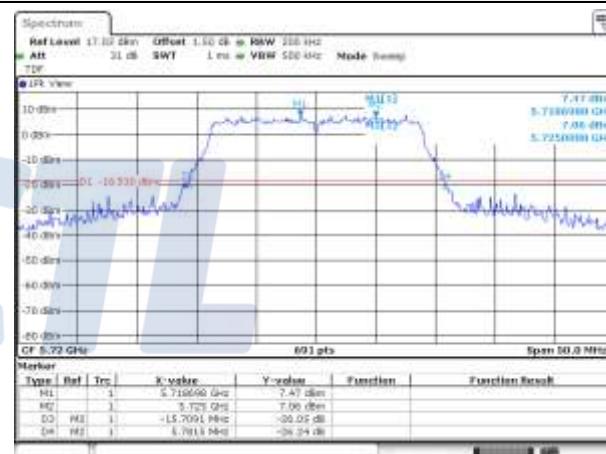
UNII-2C / 802.11n HT20 / 5 700 MHz



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



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



KCTL Inc.

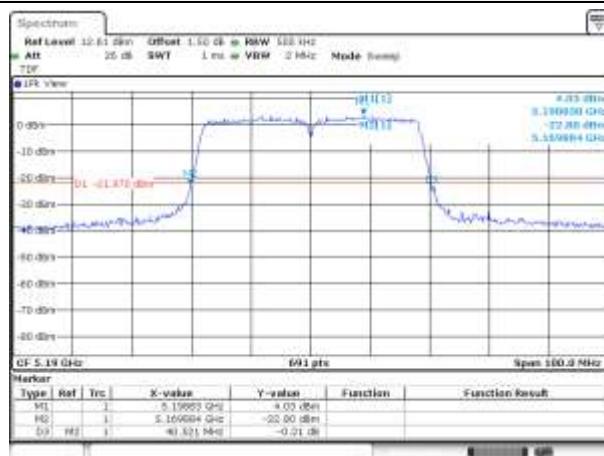
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (296) of (1046)

KCTL

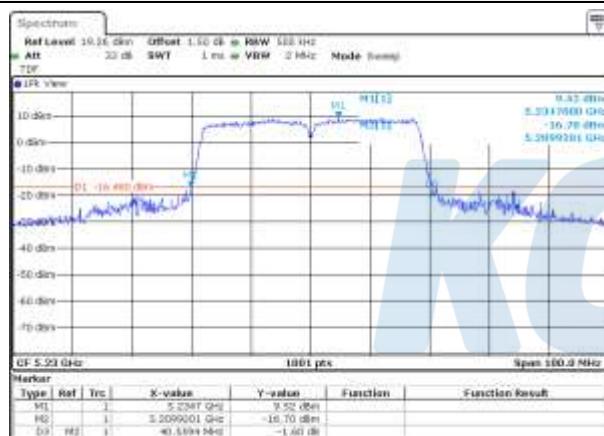
UNII-1 / 802.11n HT40 / 5 190 MHz



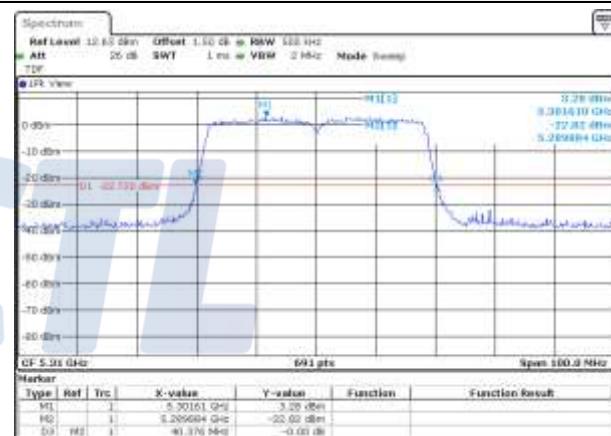
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



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



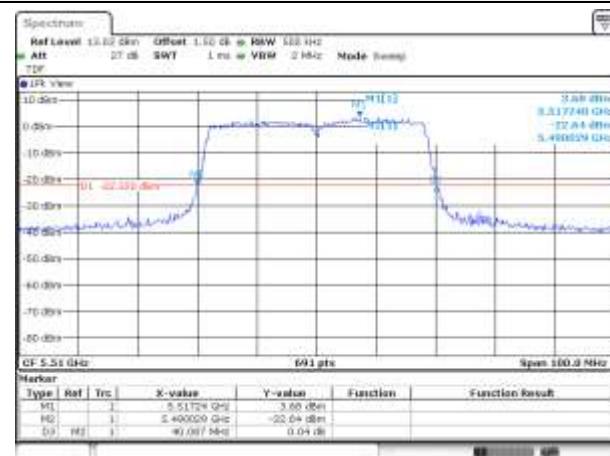
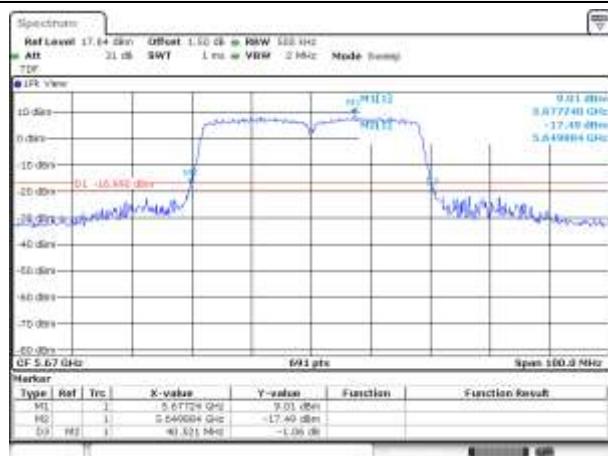
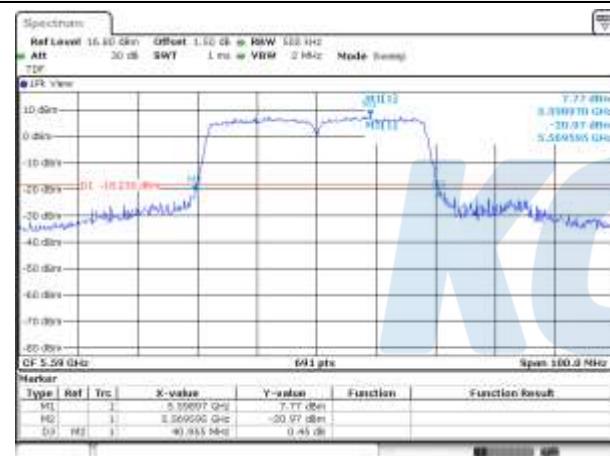
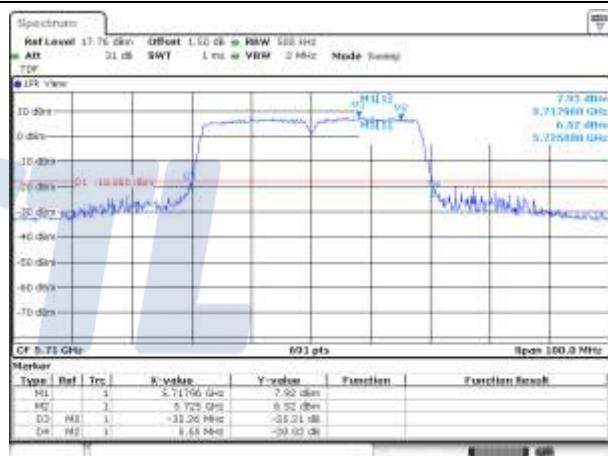
KCTL Inc.

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

Page (297) of (1046)

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**

KCTL Inc.

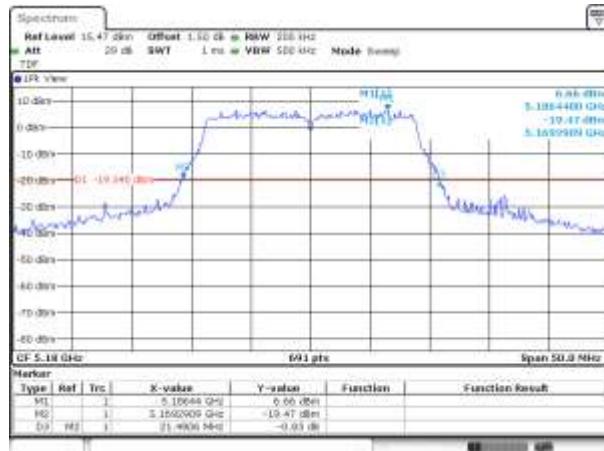
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (298) of (1046)

KCTL

UNII-1 / 802.11ac VHT20 / 5 180 MHz



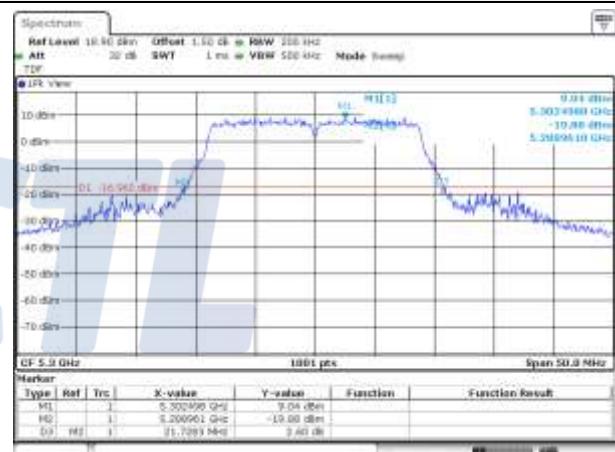
UNII-2A / 802.11ac VHT20 / 5 260 MHz



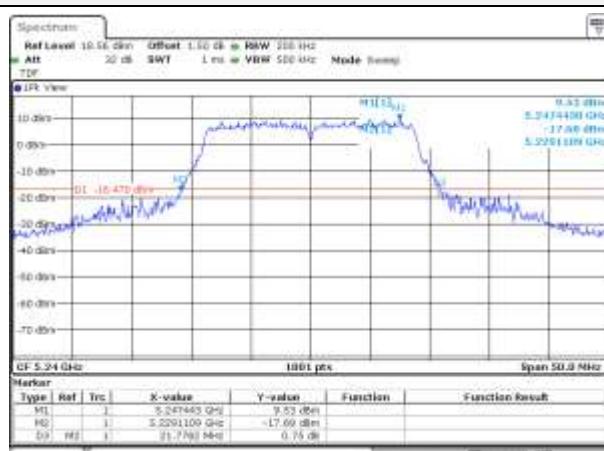
UNII-1 / 802.11ac VHT20 / 5 220 MHz



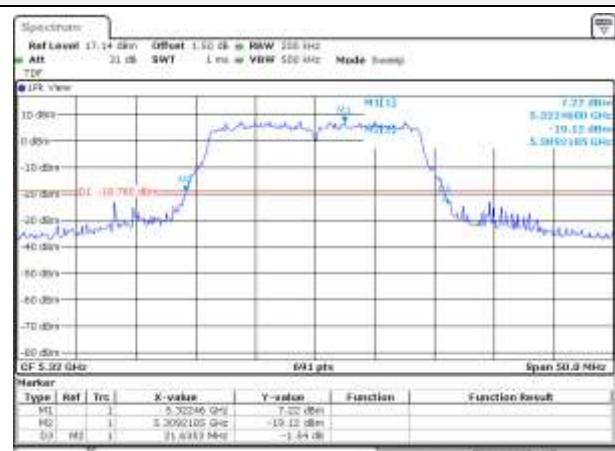
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



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



KCTL Inc.

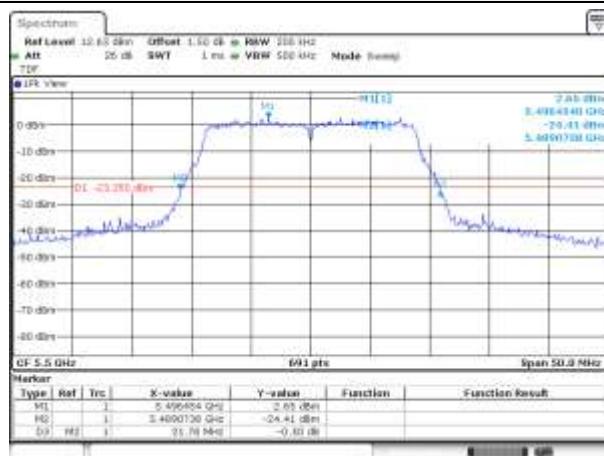
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

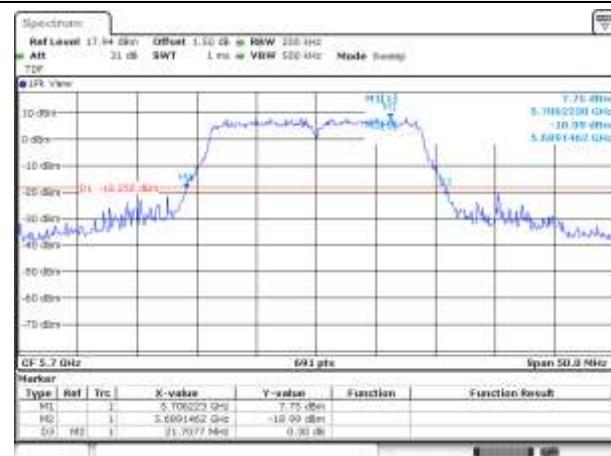
Page (299) of (1046)

KCTL

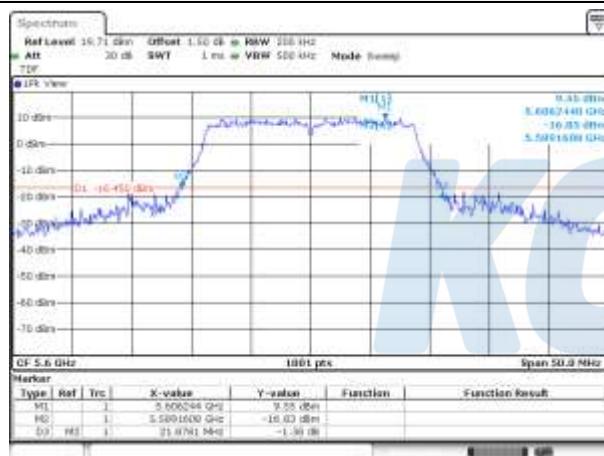
UNII-2C / 802.11ac VHT20 / 5 500 MHz



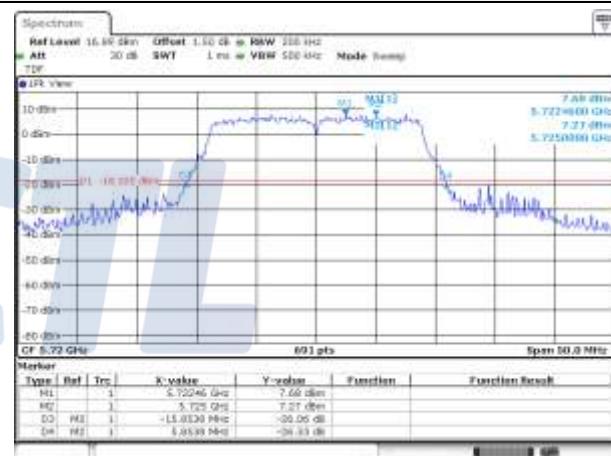
UNII-2C / 802.11ac VHT20 / 5 700 MHz



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



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



KCTL Inc.

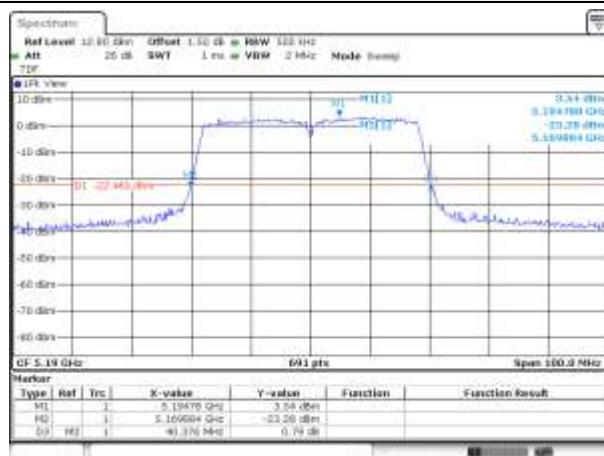
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

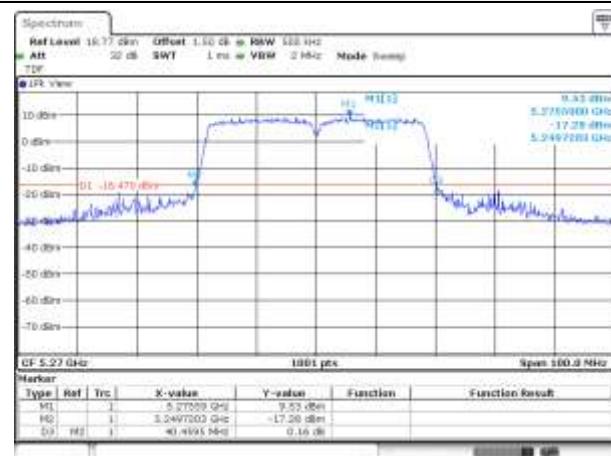
Page (300) of (1046)

KCTL

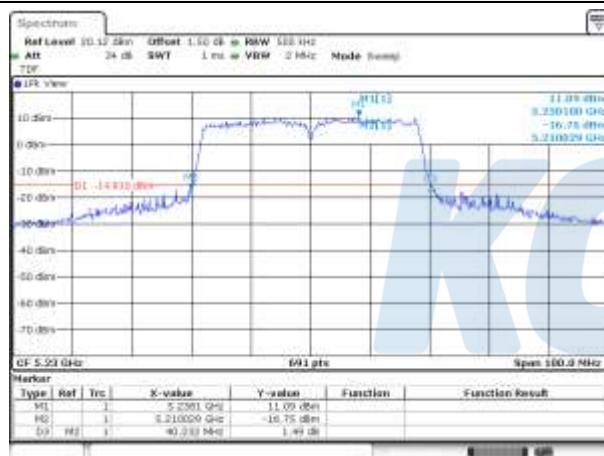
UNII-1 / 802.11ac VHT40 / 5 190 MHz



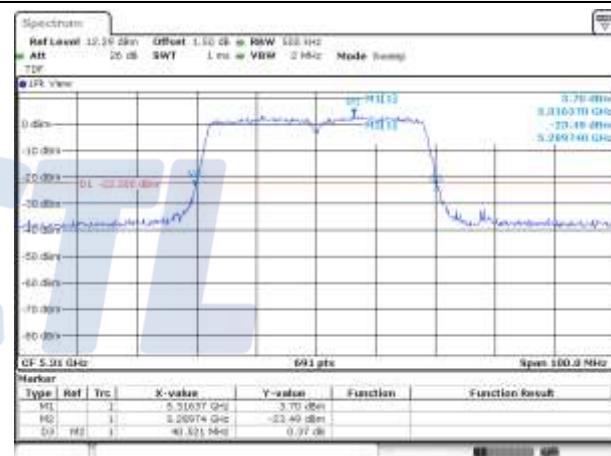
UNII-2A / 802.11ac VHT40 / 5 270 MHz



UNII-1 / 802.11ac VHT40 / 5 230 MHz



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



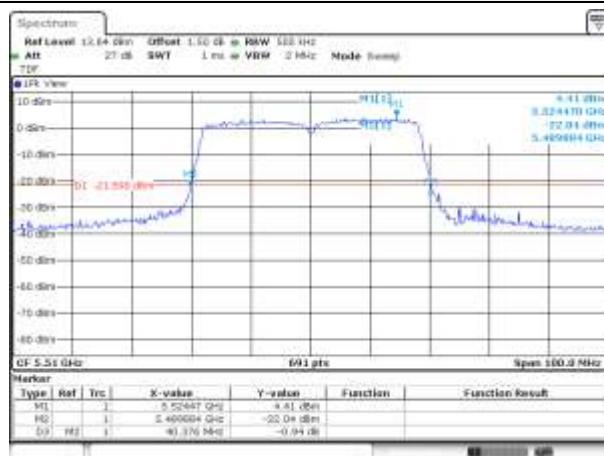
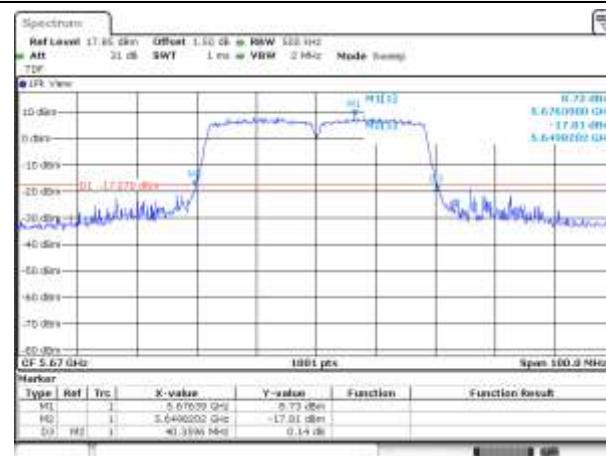
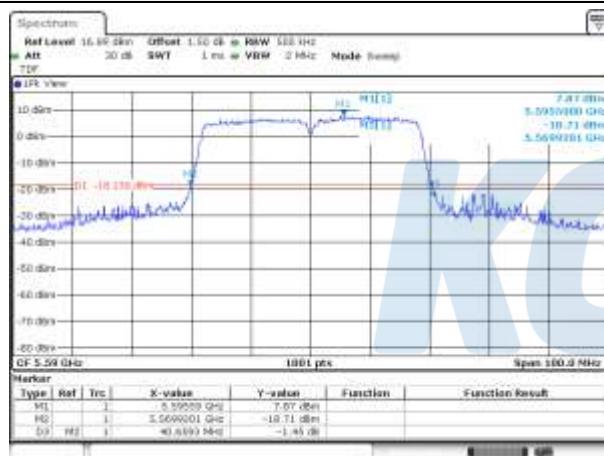
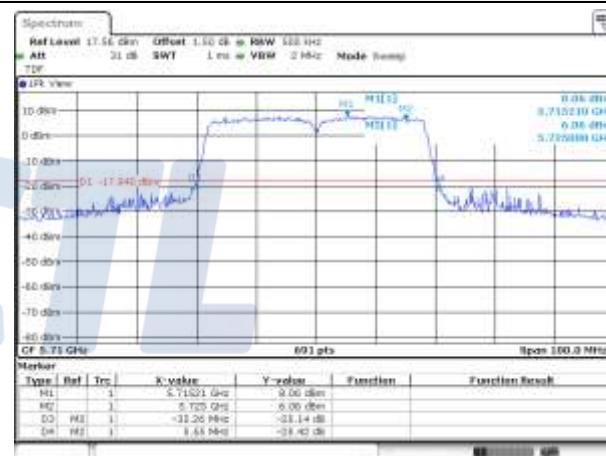
KCTL Inc.

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

Page (301) of (1046)

KCTL

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**

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

Page (302) of (1046)

KCTL

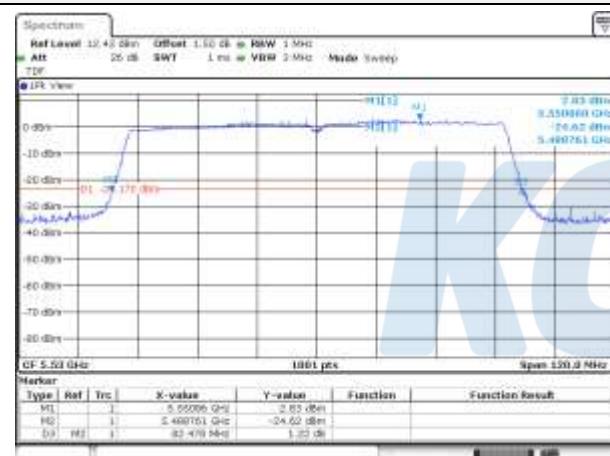
UNII-1 / 802.11ac VHT80 / 5 210 MHz



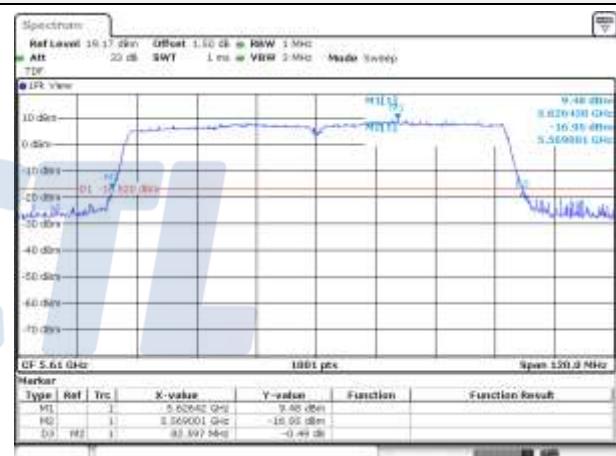
UNII-2A / 802.11ac VHT80 / 5 290 MHz



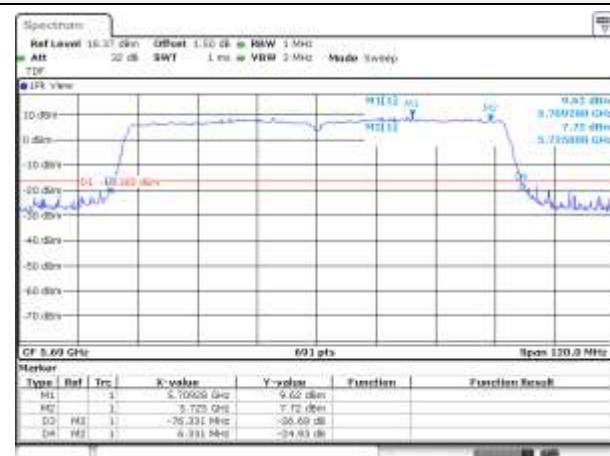
UNII-2C / 802.11ac VHT80 / 5 530 MHz



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



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



Blank

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

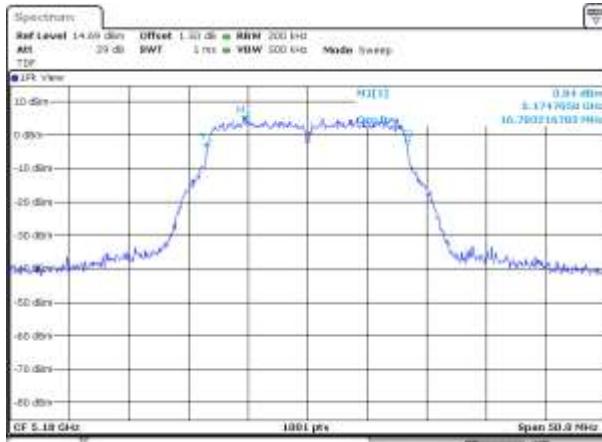
Page (303) of (1046)

KCTL

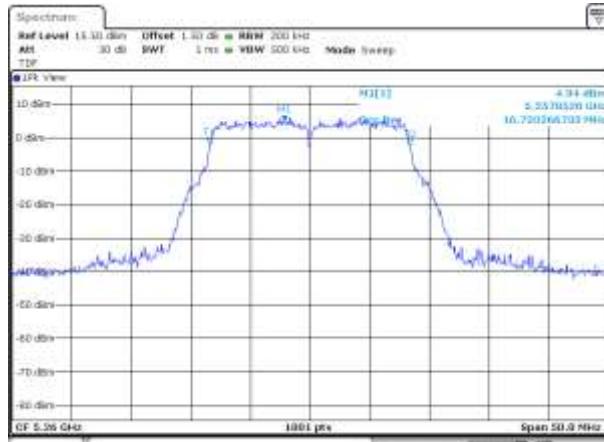
99 % bandwidth(MHz)

ANT 0

UNII-1 / 802.11a / 5 180 MHz



UNII-2A / 802.11a / 5 260 MHz



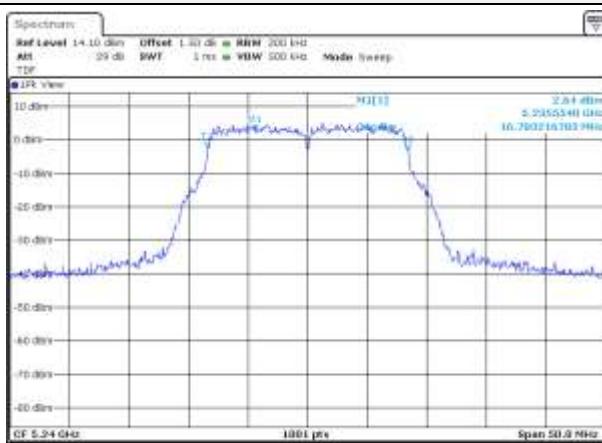
UNII-1 / 802.11a / 5 220 MHz



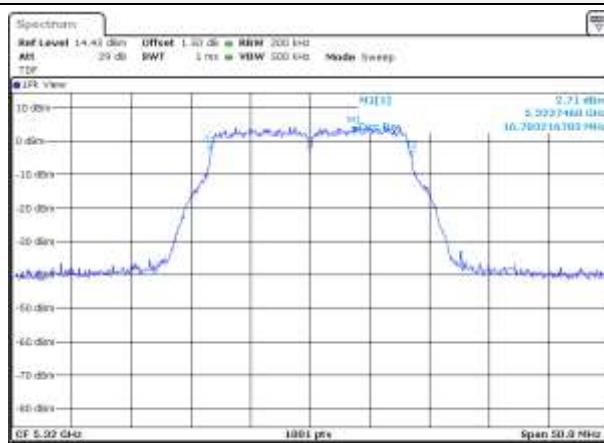
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



KCTL Inc.

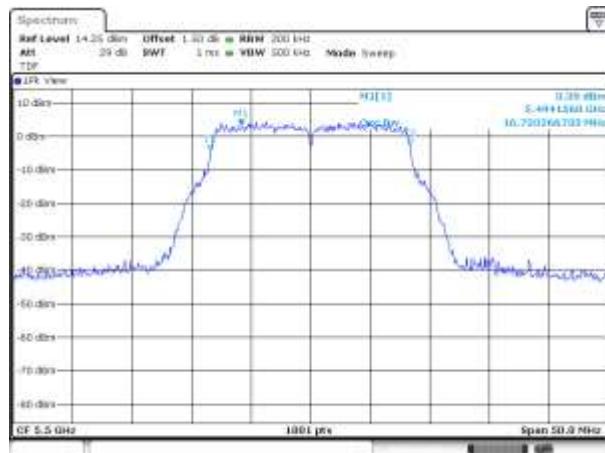
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

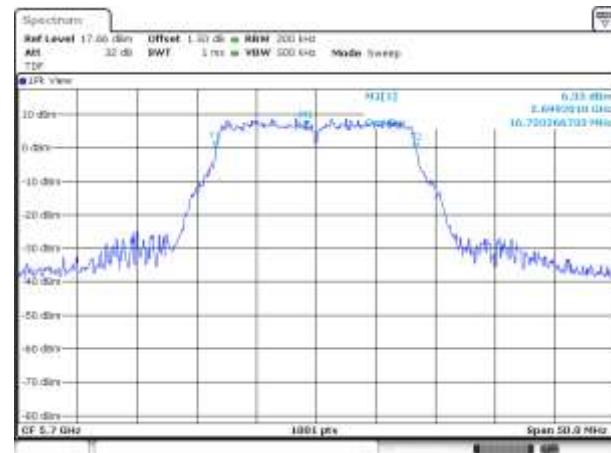
Page (304) of (1046)

KCTL

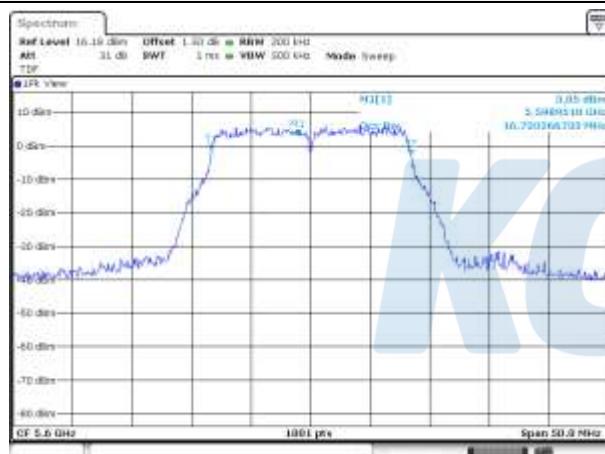
UNII-2C / 802.11a / 5 500 MHz



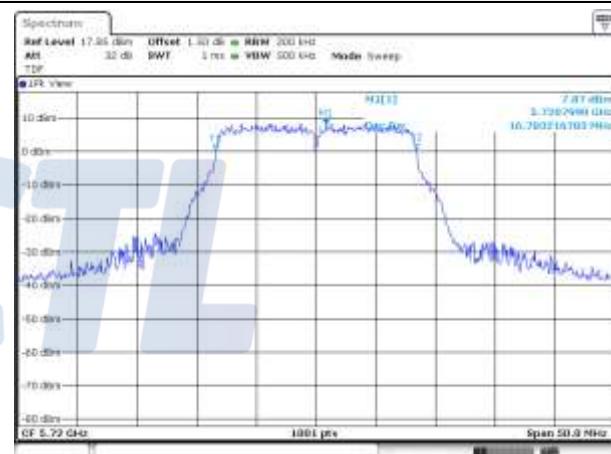
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz



KCTL Inc.

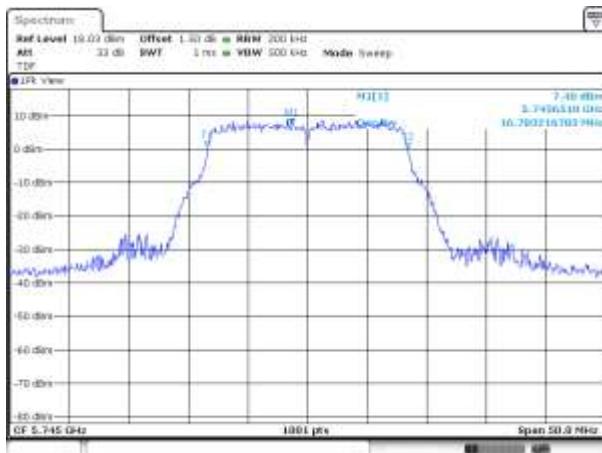
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

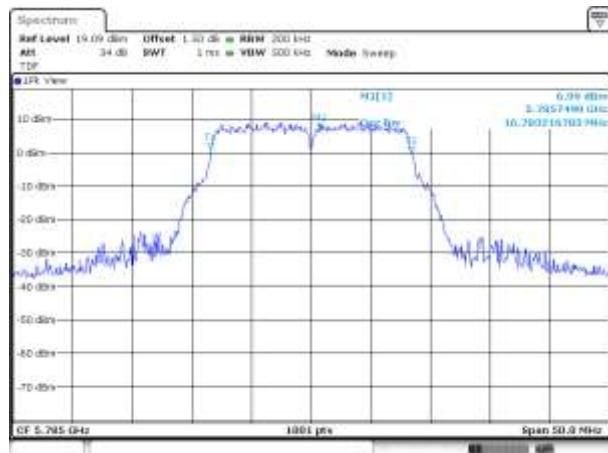
Page (305) of (1046)

KCTL

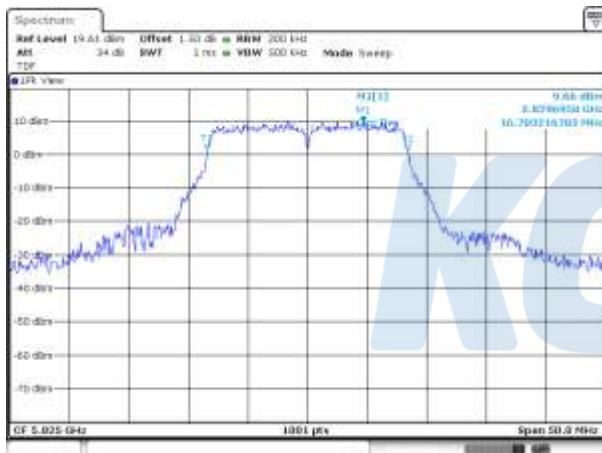
UNII-3 / 802.11a / 5 745 MHz



UNII-3 / 802.11a / 5 785 MHz



UNII-3 / 802.11a / 5 825 MHz



-

Blank

KCTL Inc.

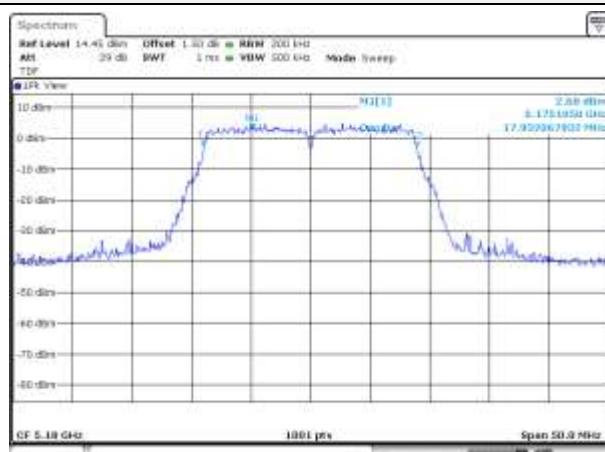
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

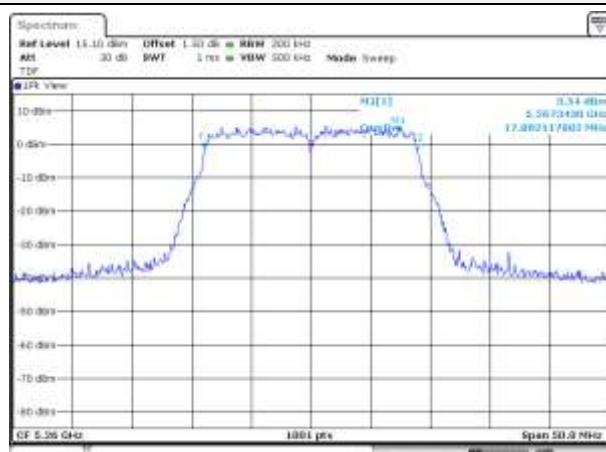
Page (306) of (1046)

KCTL

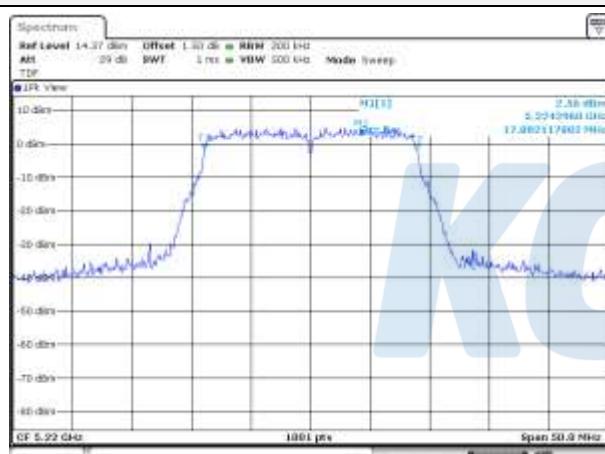
UNII-1 / 802.11n HT20 / 5 180 MHz



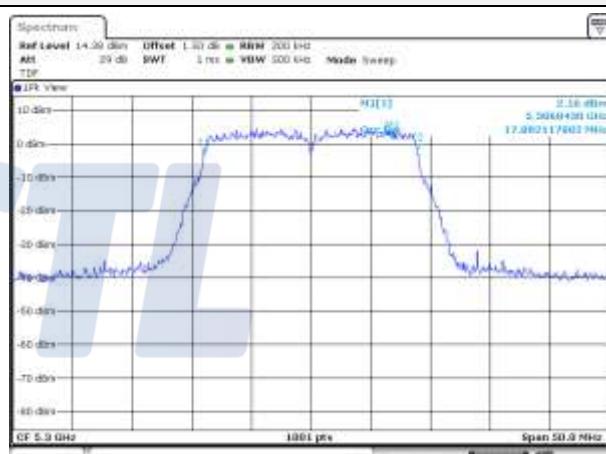
UNII-2A / 802.11n HT20 / 5 260 MHz



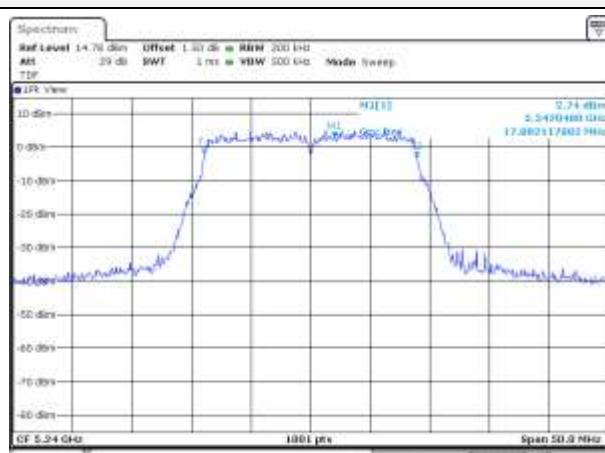
UNII-1 / 802.11n HT20 / 5 220 MHz



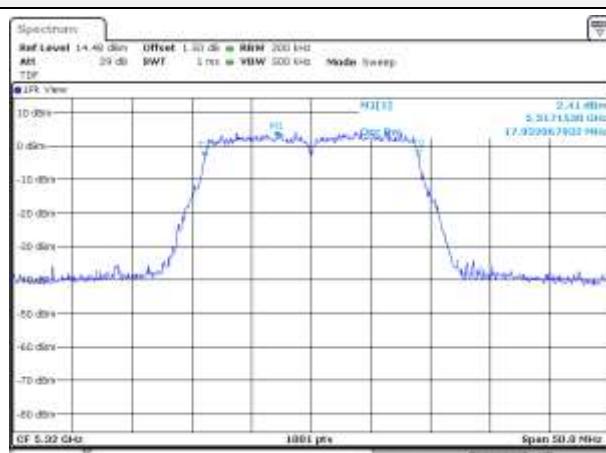
UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



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



KCTL Inc.

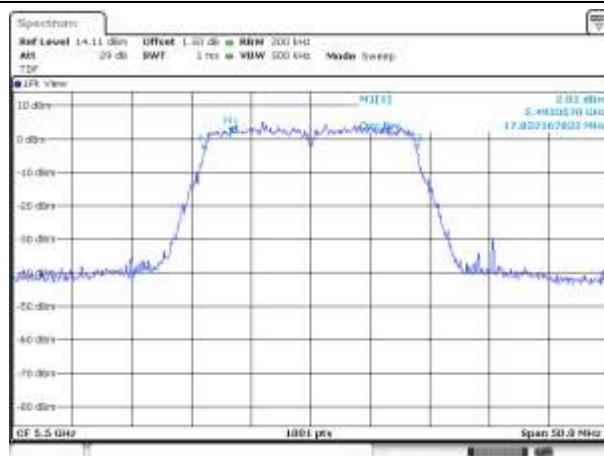
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

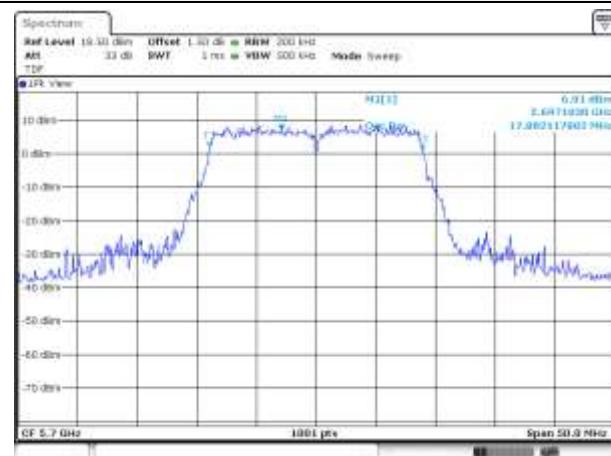
Page (307) of (1046)

KCTL

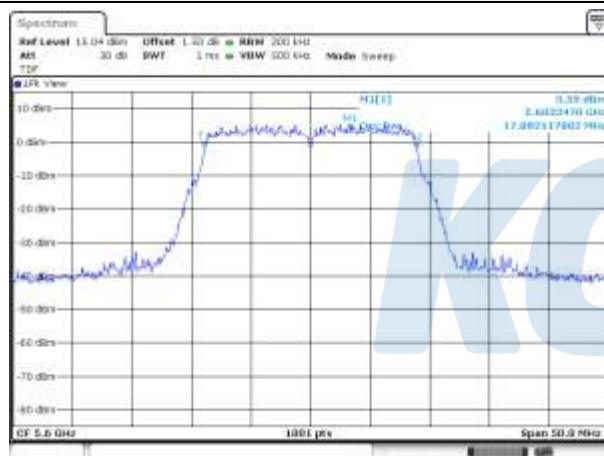
UNII-2C / 802.11n HT20 / 5 500 MHz



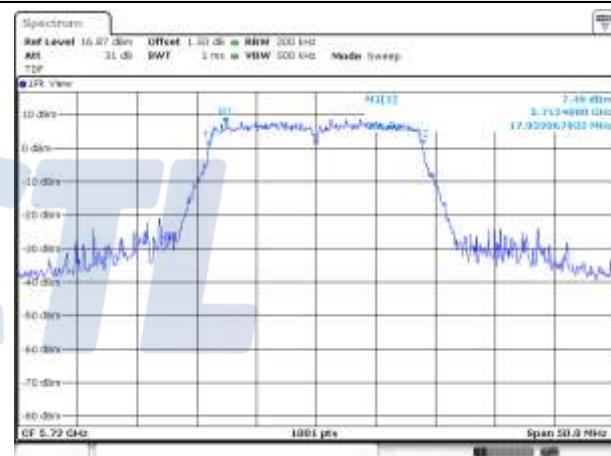
UNII-2C / 802.11n HT20 / 5 700 MHz



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



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



KCTL Inc.

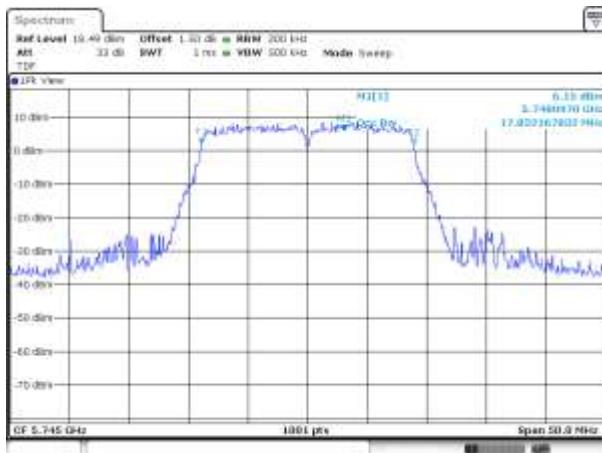
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

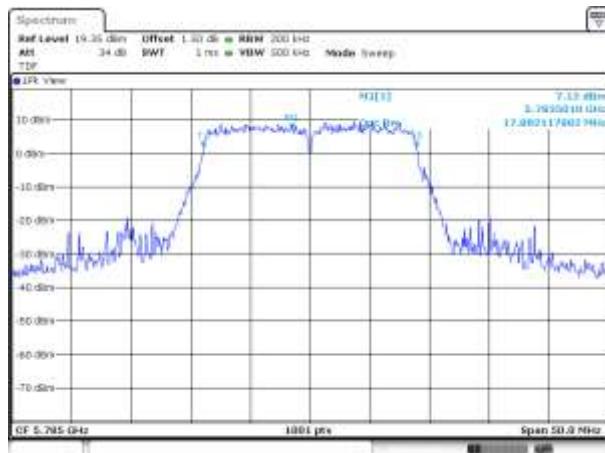
Page (308) of (1046)

KCTL

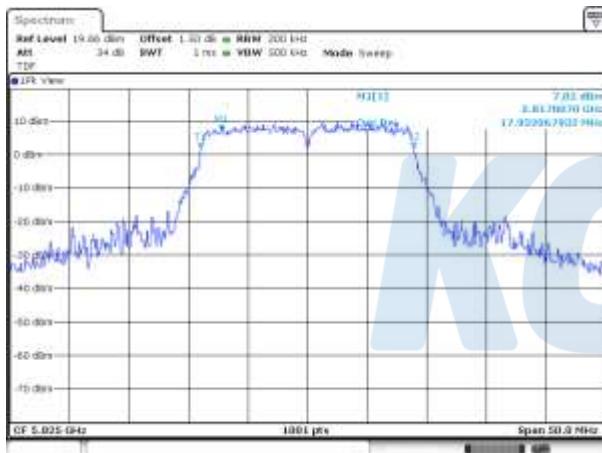
UNII-3 / 802.11n HT20 / 5 745 MHz



UNII-3 / 802.11n HT20 / 5 785 MHz



UNII-3 / 802.11n HT20 / 5 825 MHz



-

Blank

KCTL Inc.

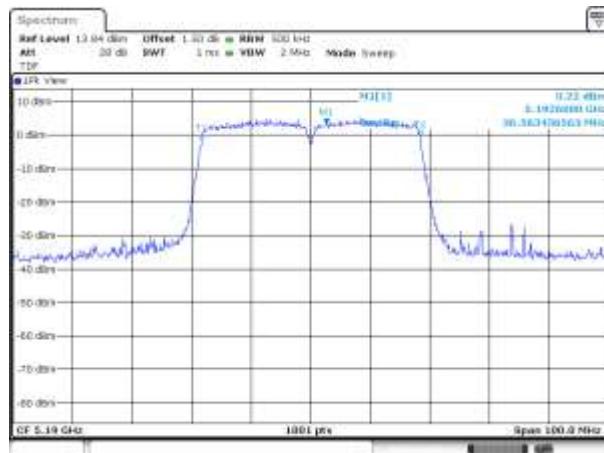
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

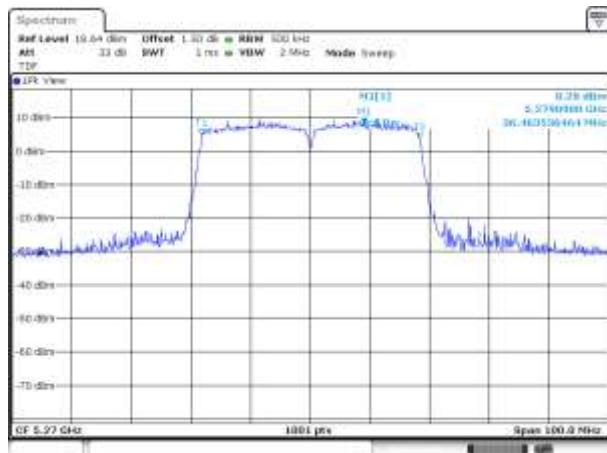
Page (309) of (1046)

KCTL

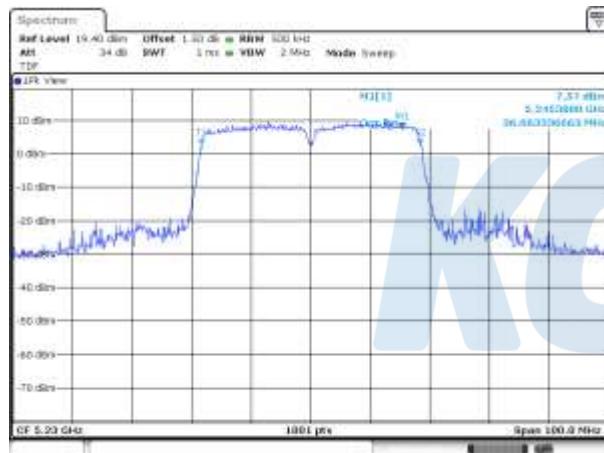
UNII-1 / 802.11n HT40 / 5 190 MHz



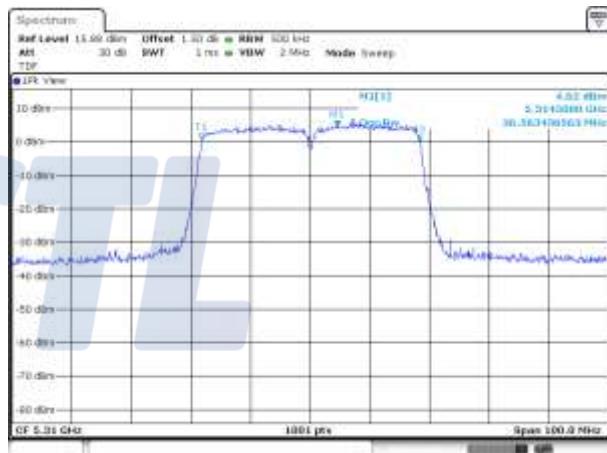
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



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



KCTL Inc.

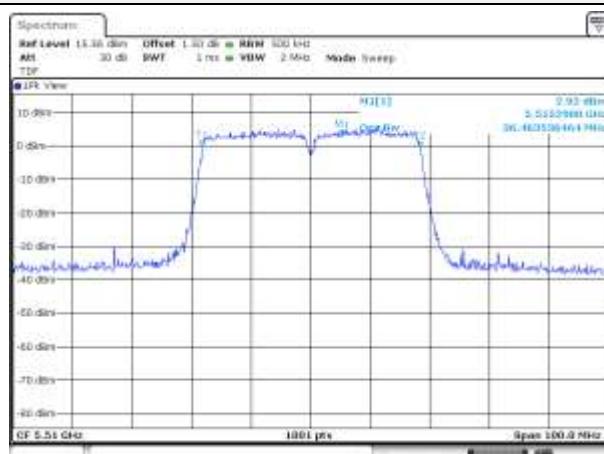
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

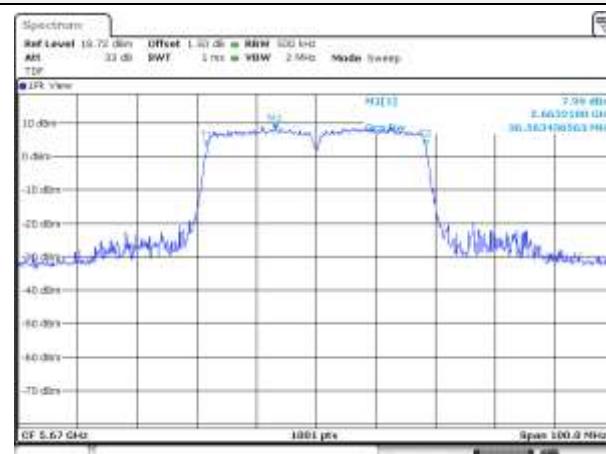
Page (310) of (1046)

KCTL

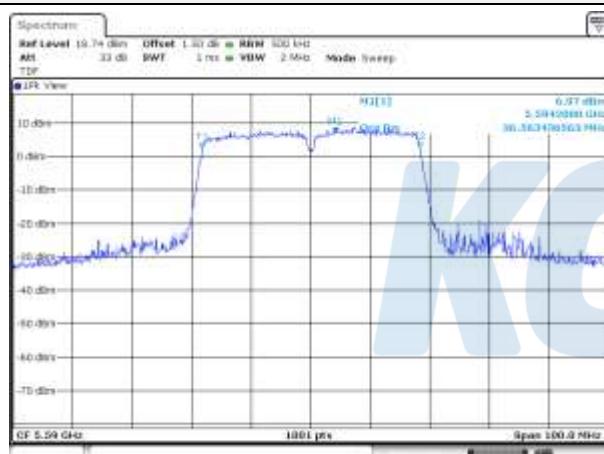
UNII-2C / 802.11n HT40 / 5 510 MHz



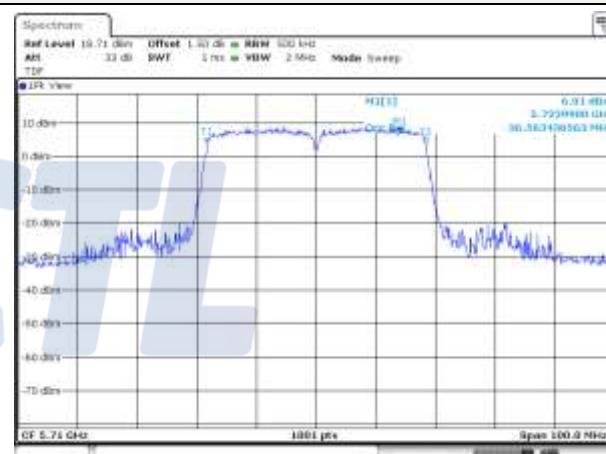
UNII-2C / 802.11n HT40 / 5 670 MHz



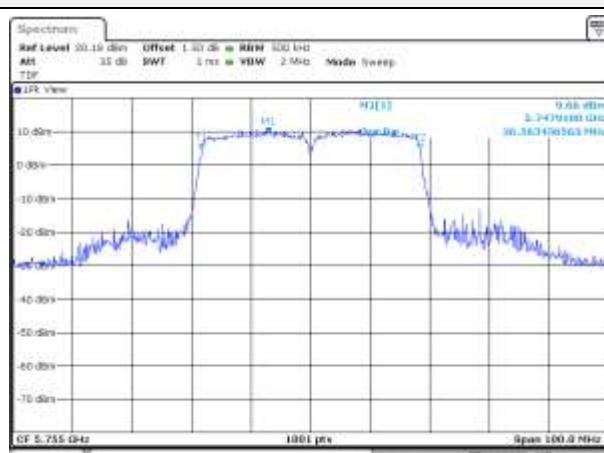
UNII-2C / 802.11n HT40 / 5 590 MHz



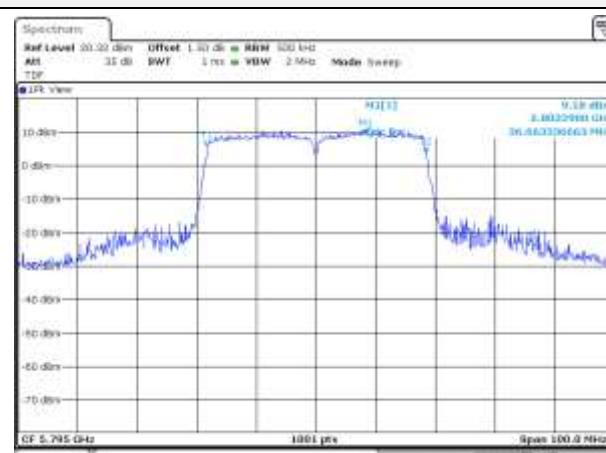
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



KCTL Inc.

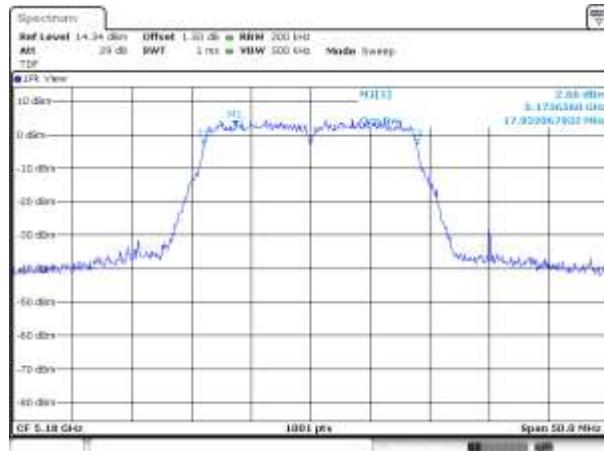
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

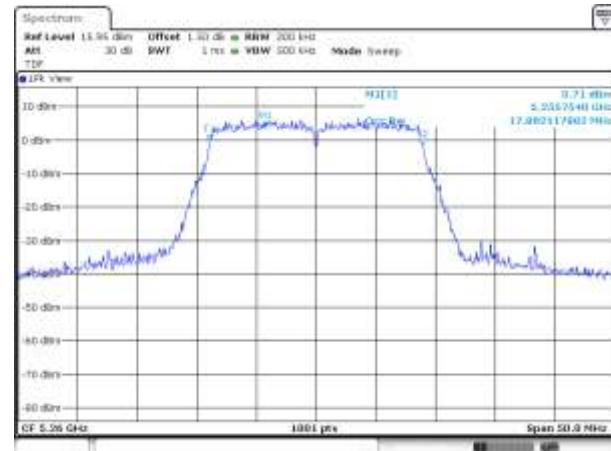
Page (311) of (1046)

KCTL

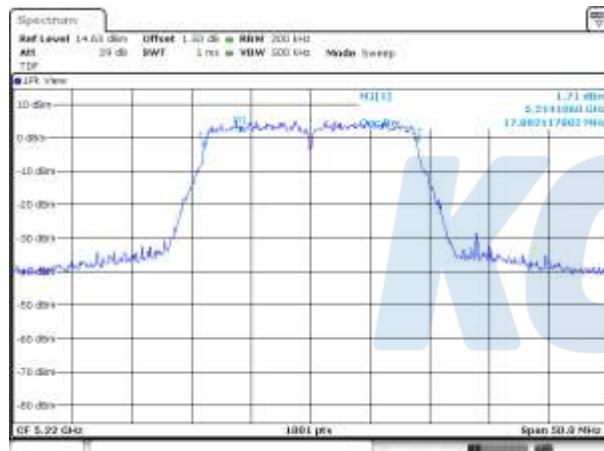
UNII-1 / 802.11ac VHT20 / 5 180 MHz



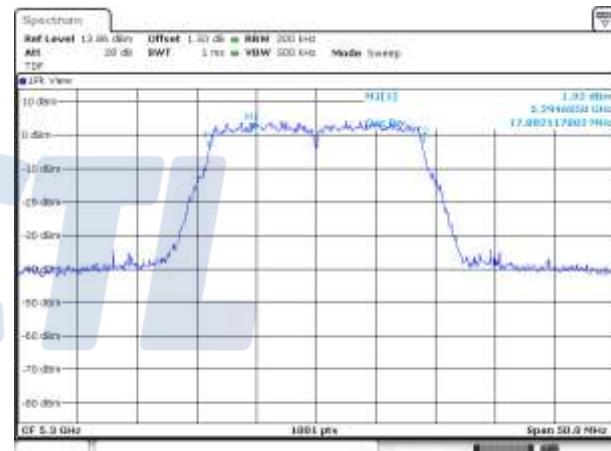
UNII-2A / 802.11ac VHT20 / 5 260 MHz



UNII-1 / 802.11ac VHT20 / 5 220 MHz



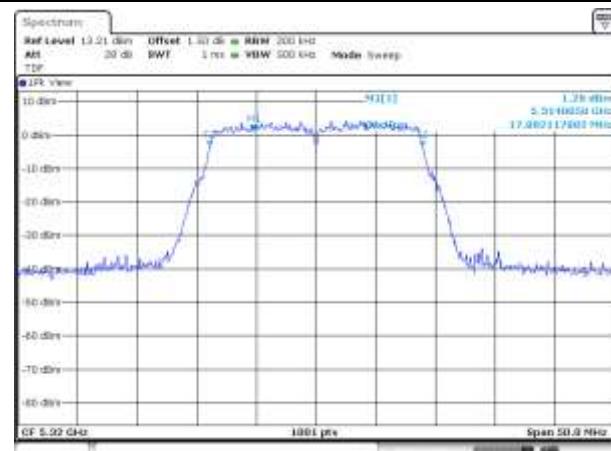
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



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



KCTL Inc.

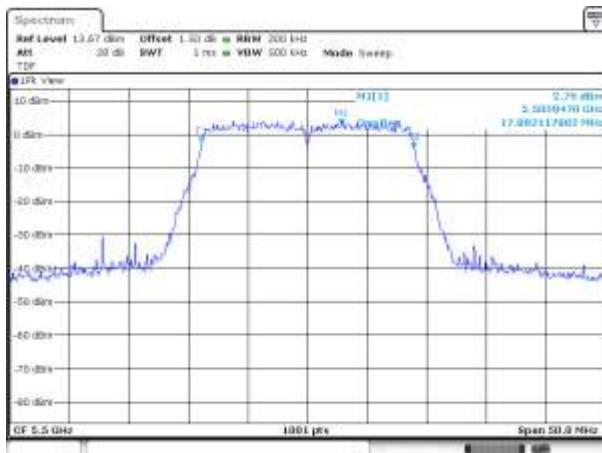
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

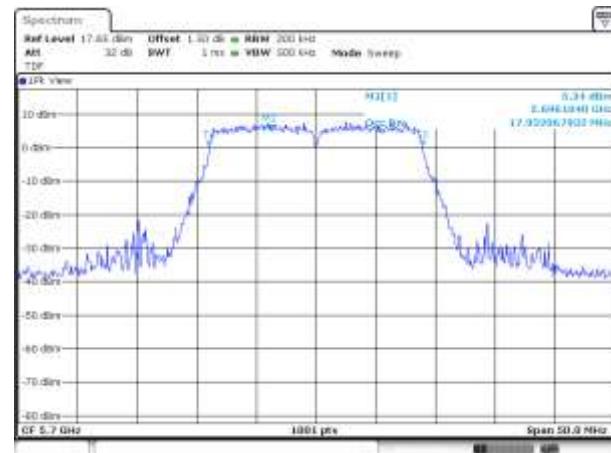
Page (312) of (1046)

KCTL

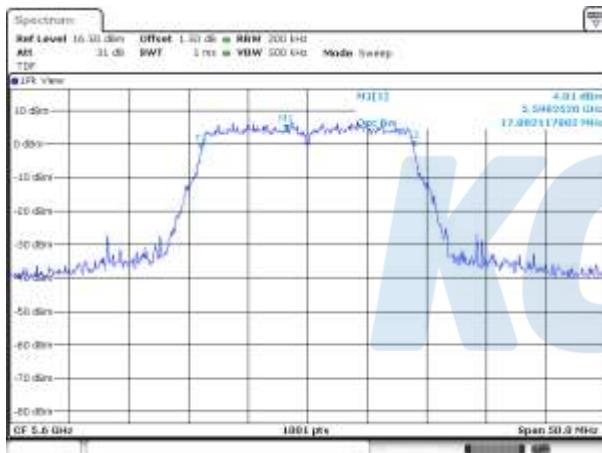
UNII-2C / 802.11ac VHT20 / 5 500 MHz



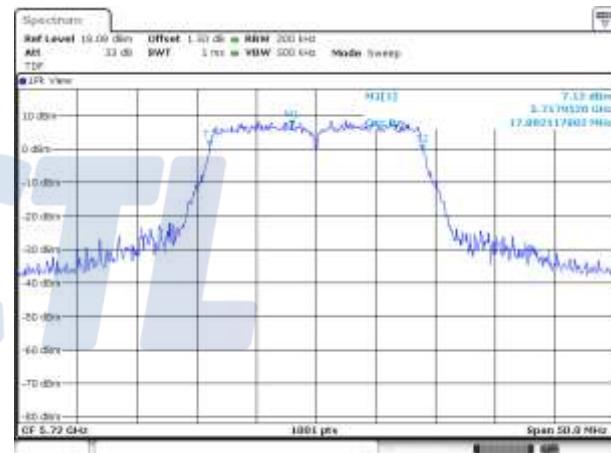
UNII-2C / 802.11ac VHT20 / 5 700 MHz



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



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



KCTL Inc.

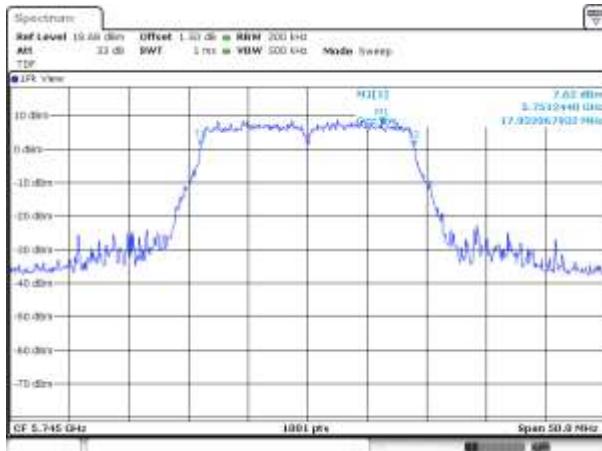
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

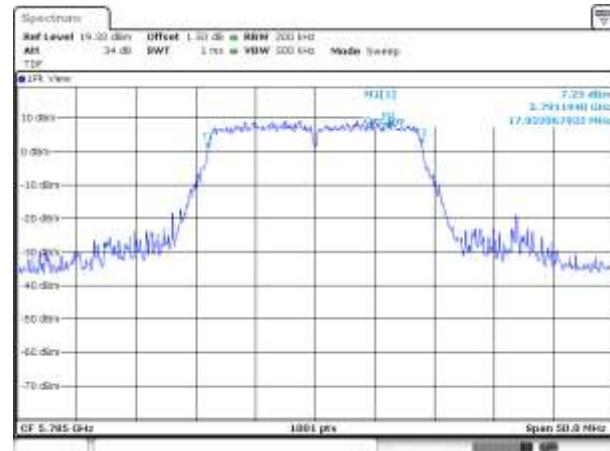
Page (313) of (1046)

KCTL

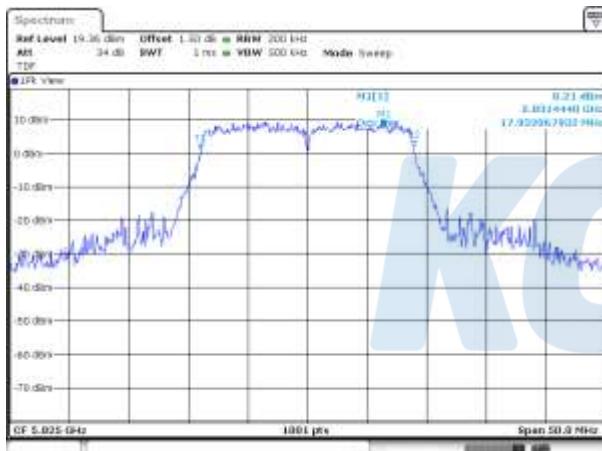
UNII-3 / 802.11ac VHT20 / 5 745 MHz



UNII-3 / 802.11ac VHT20 / 5 785 MHz



UNII-3 / 802.11ac VHT20 / 5 825 MHz



-

Blank

KCTL Inc.

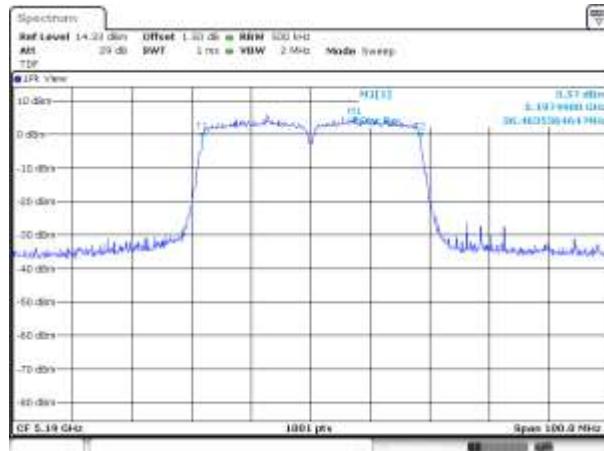
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

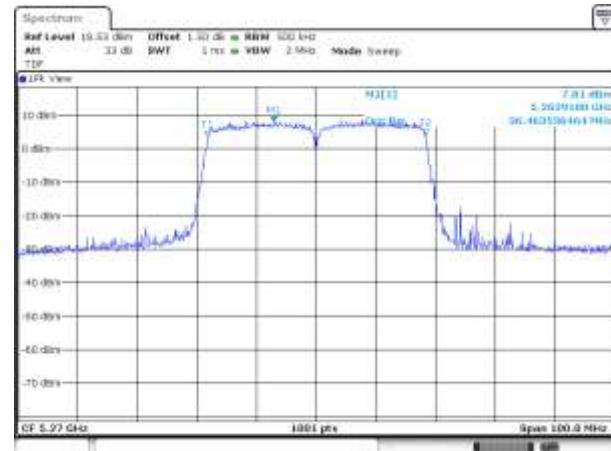
Page (314) of (1046)

KCTL

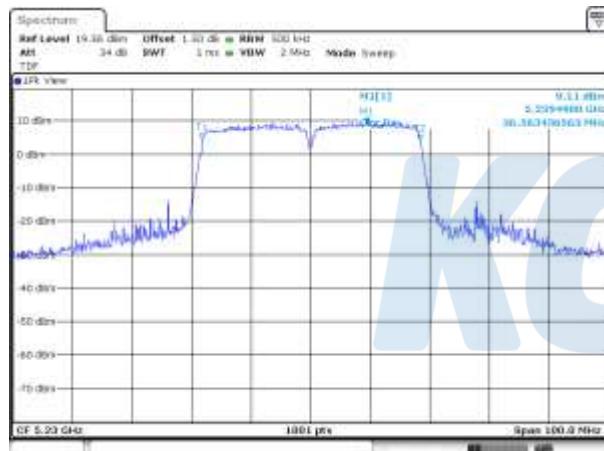
UNII-1 / 802.11ac VHT40 / 5 190 MHz



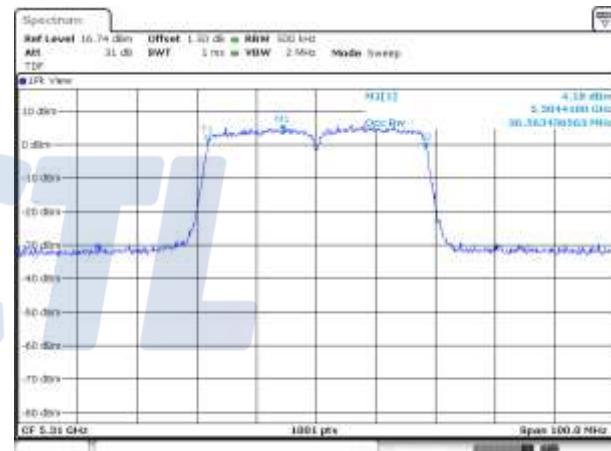
UNII-2A / 802.11ac VHT40 / 5 270 MHz



UNII-1 / 802.11ac VHT40 / 5 230 MHz



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

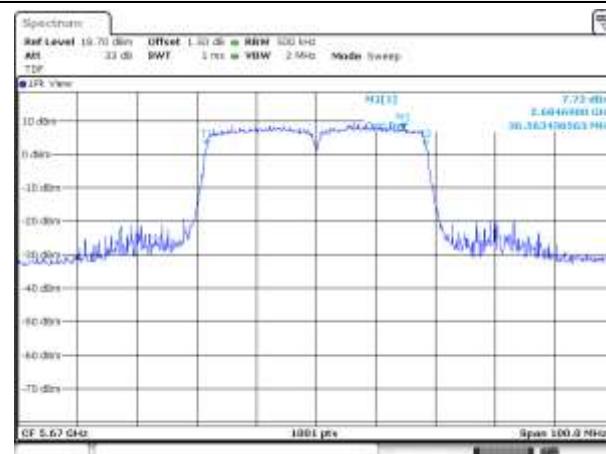
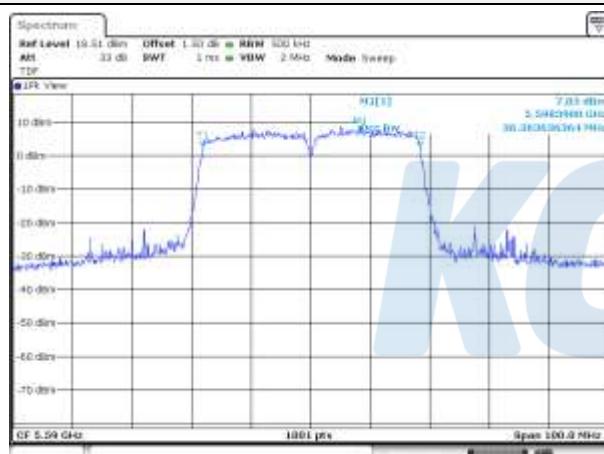
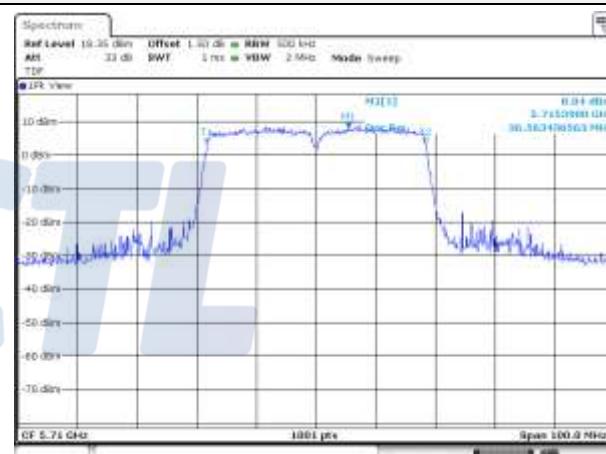
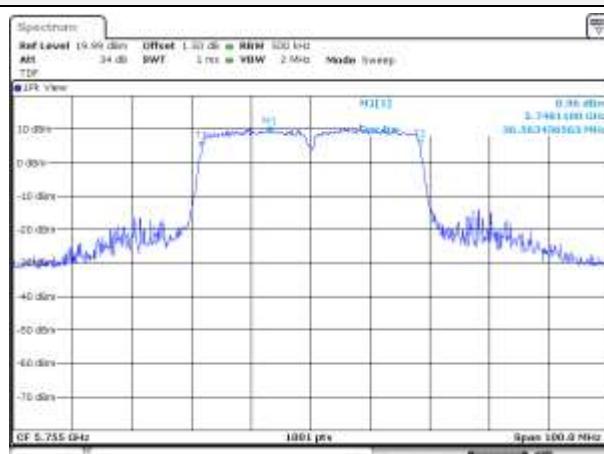
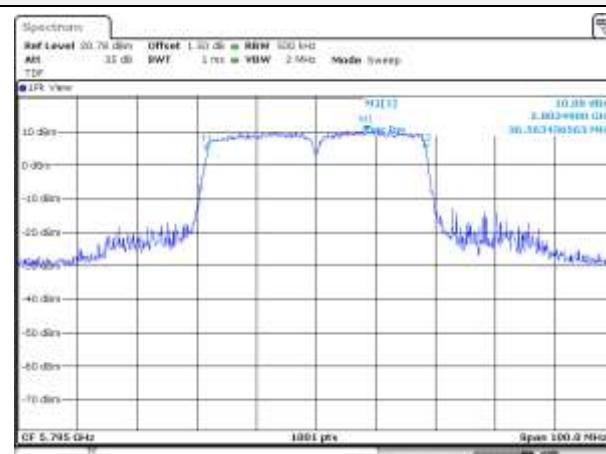


KCTL Inc.

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

Page (315) of (1046)

KCTL**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.

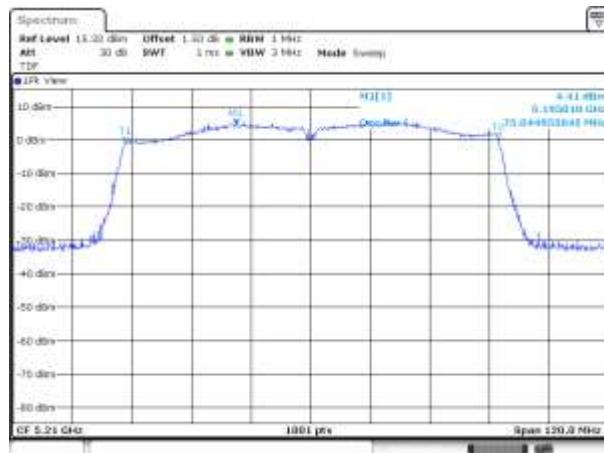
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

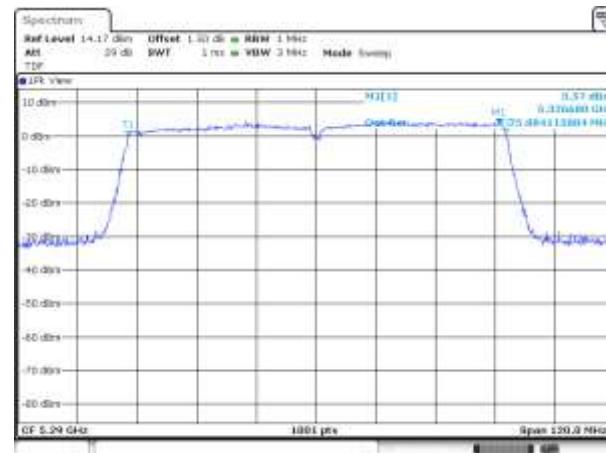
Page (316) of (1046)

KCTL

UNII-1 / 802.11ac VHT80 / 5 210 MHz



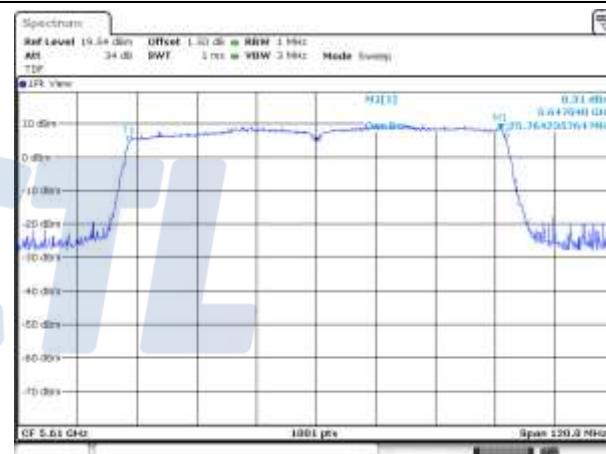
UNII-2A / 802.11ac VHT80 / 5 290 MHz



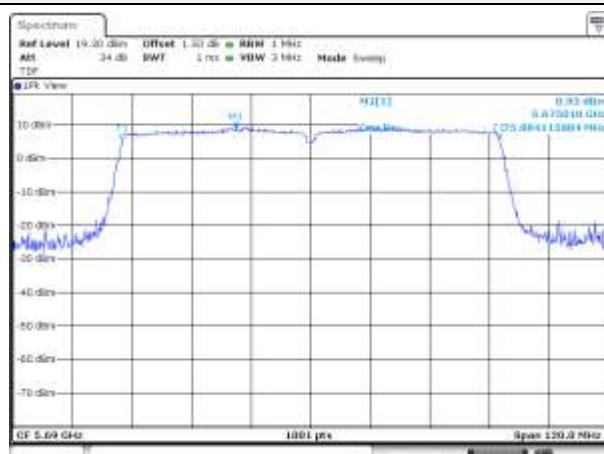
UNII-2C / 802.11ac VHT80 / 5 530 MHz



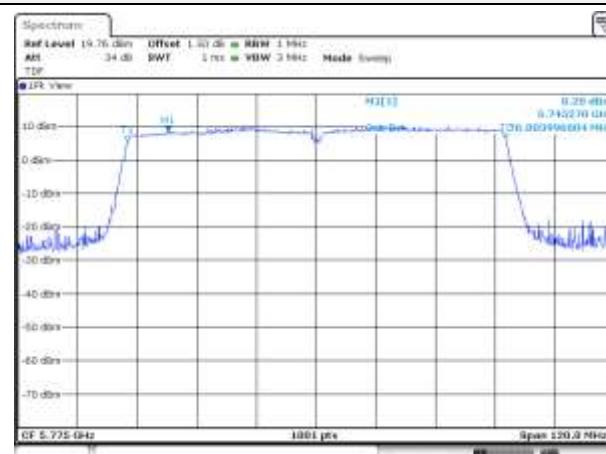
UNII-2C / 802.11ac VHT80 / 5 610 MHz



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



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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

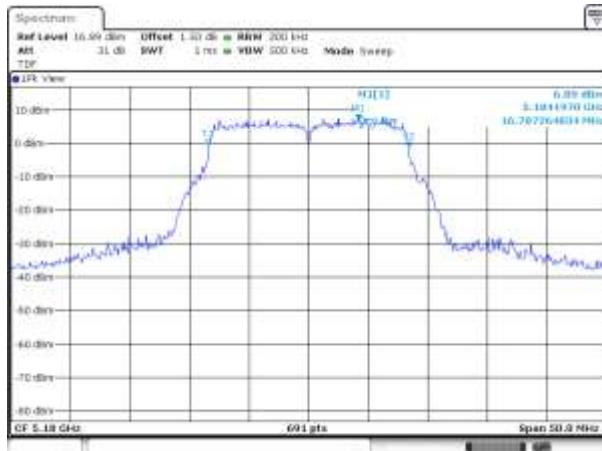
Report No.:
KR20-SRF0030-D

Page (317) of (1046)

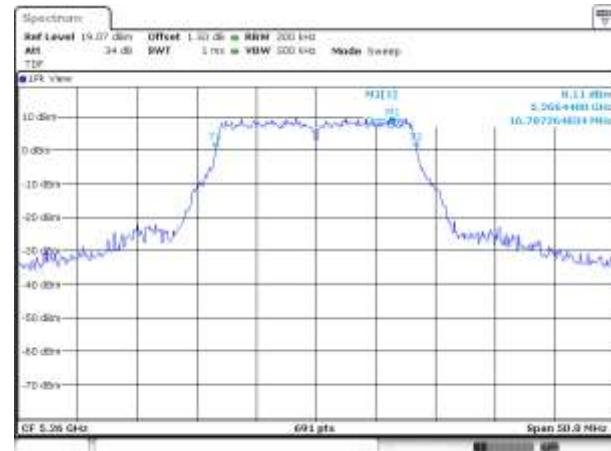
KCTL

ANT 1

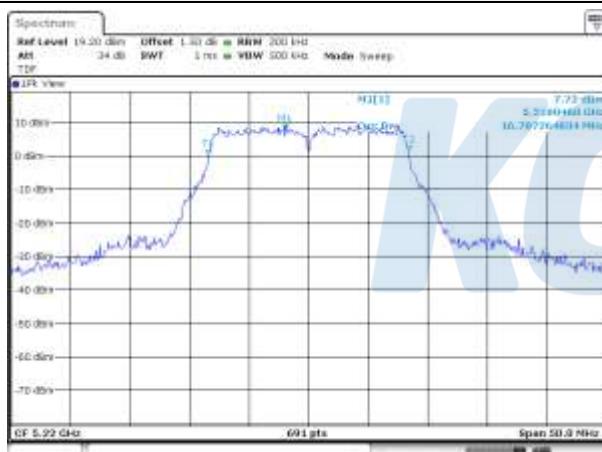
UNII-1 / 802.11a / 5 180 MHz



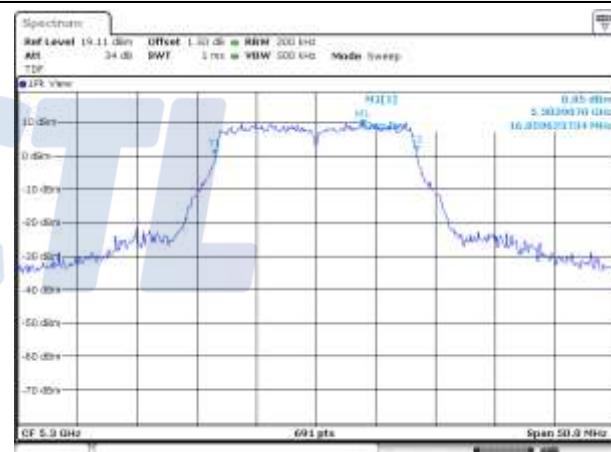
UNII-2A / 802.11a / 5 260 MHz



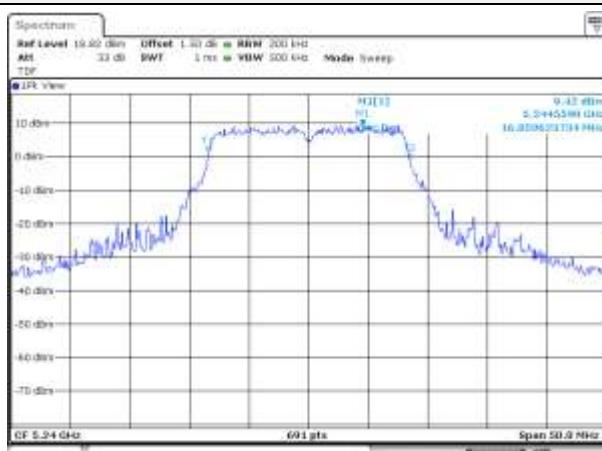
UNII-1 / 802.11a / 5 220 MHz



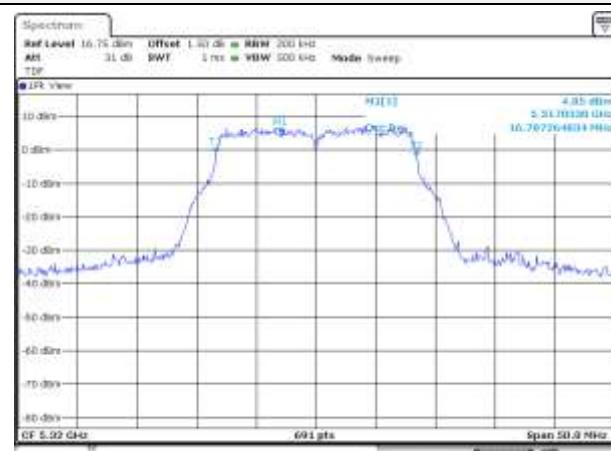
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



KCTL Inc.

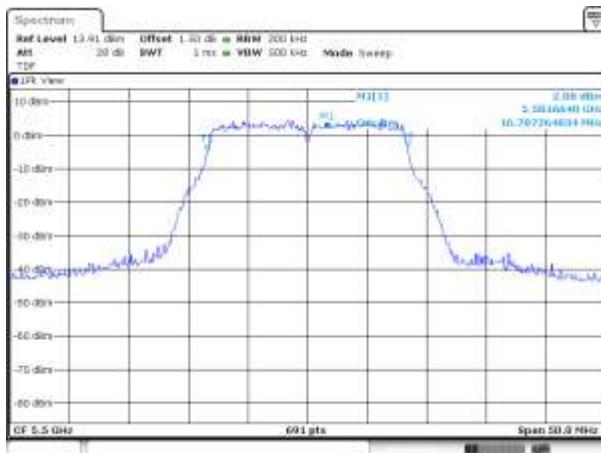
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

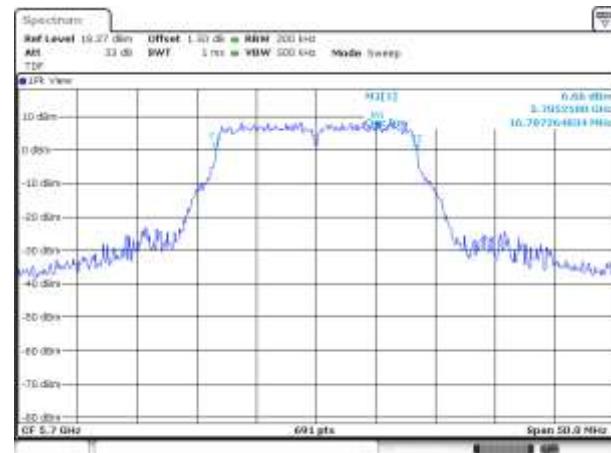
Page (318) of (1046)

KCTL

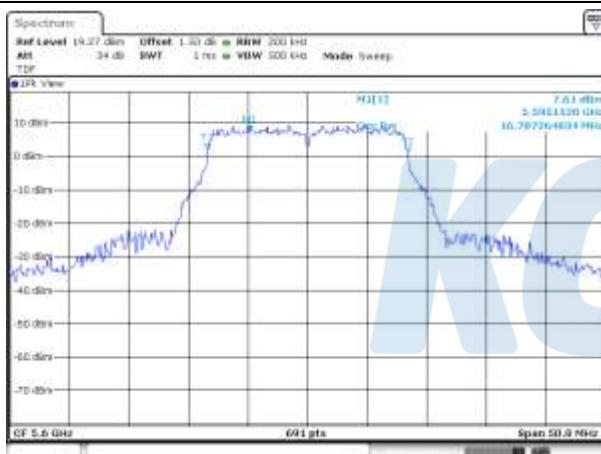
UNII-2C / 802.11a / 5 500 MHz



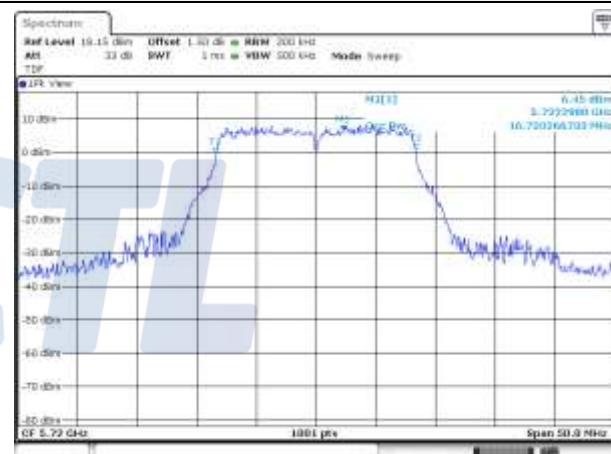
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz

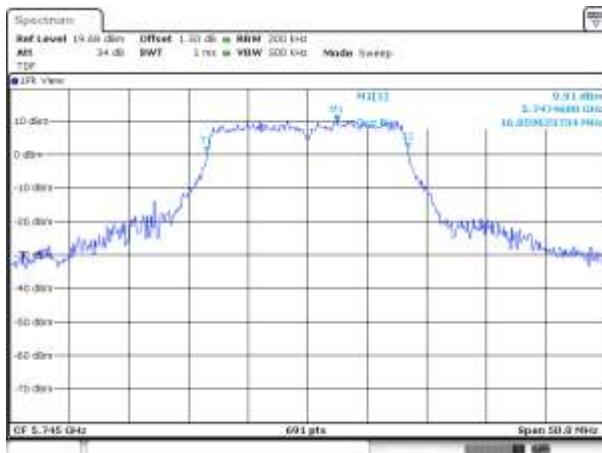
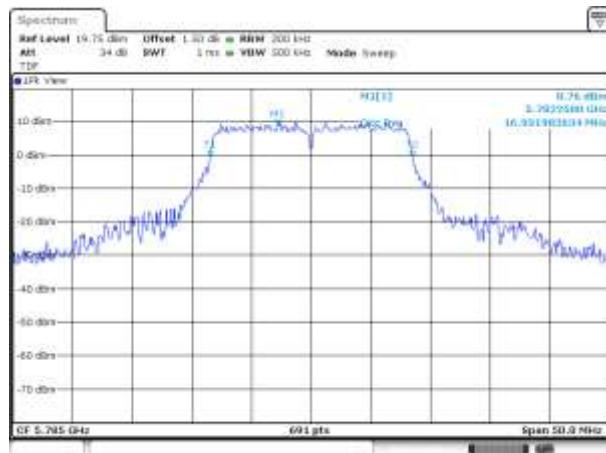
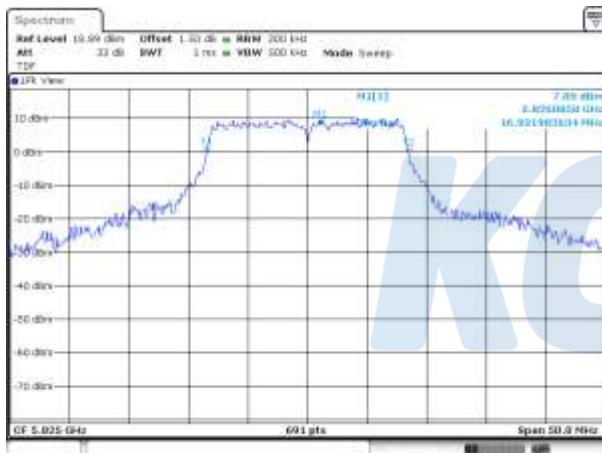


KCTL Inc.

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

Page (319) of (1046)

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

-

Blank

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

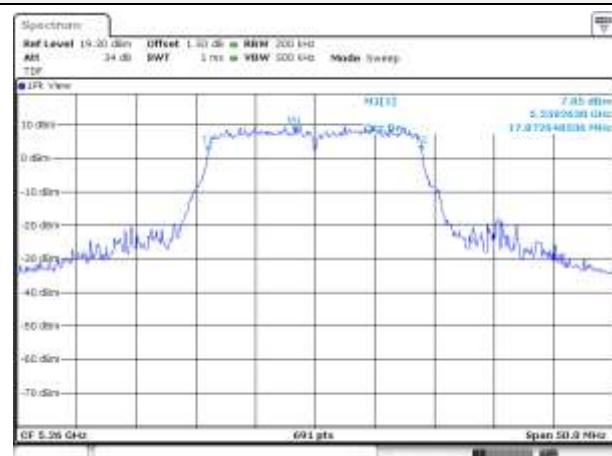
Page (320) of (1046)

KCTL

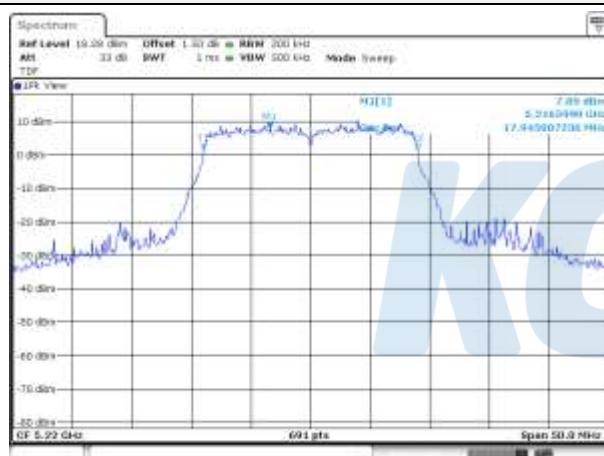
UNII-1 / 802.11n HT20 / 5 180 MHz



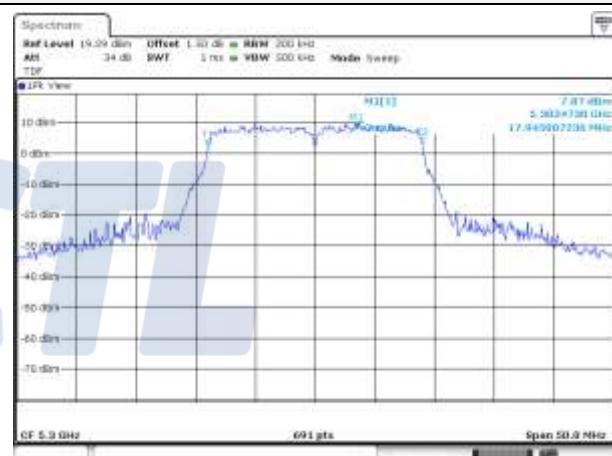
UNII-2A / 802.11n HT20 / 5 260 MHz



UNII-1 / 802.11n HT20 / 5 220 MHz



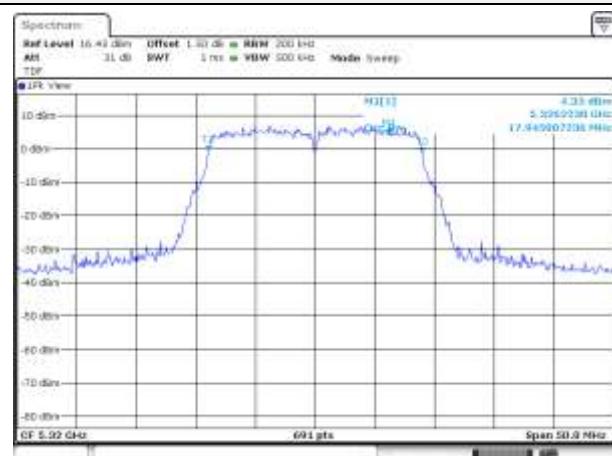
UNII-2A / 802.11n HT20 / 5 300 MHz



UNII-1 / 802.11n HT20 / 5 240 MHz



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



KCTL Inc.

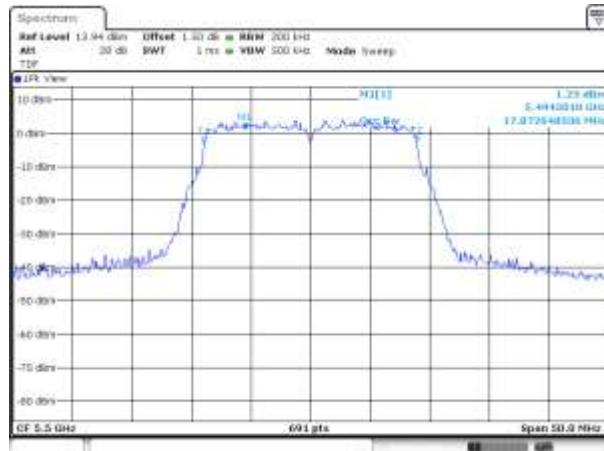
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

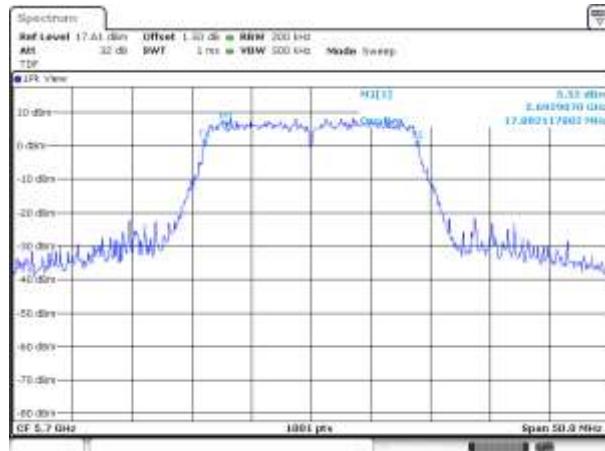
Page (321) of (1046)

KCTL

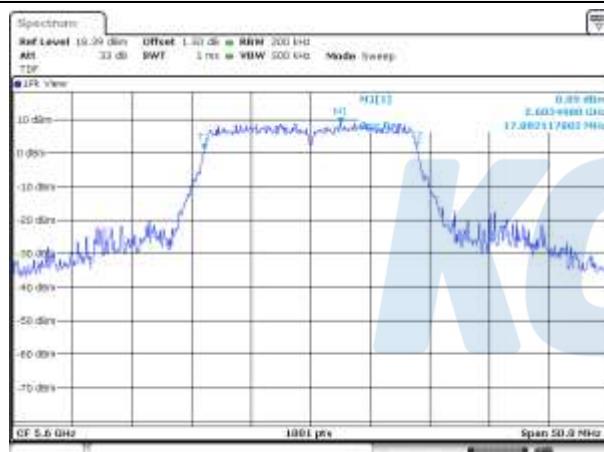
UNII-2C / 802.11n HT20 / 5 500 MHz



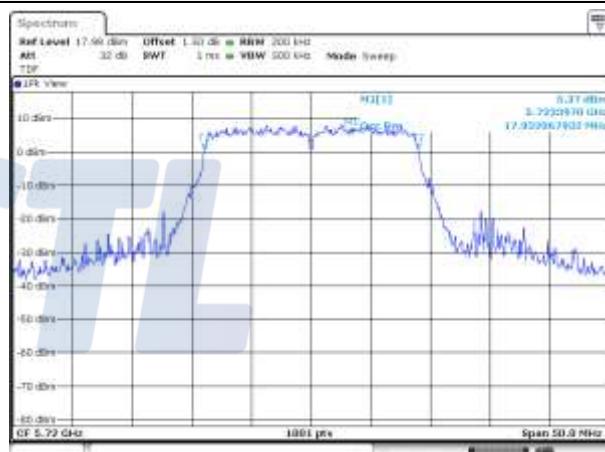
UNII-2C / 802.11n HT20 / 5 700 MHz



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



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

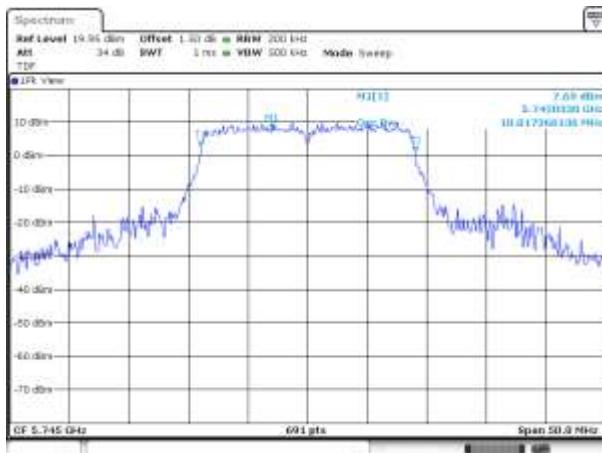
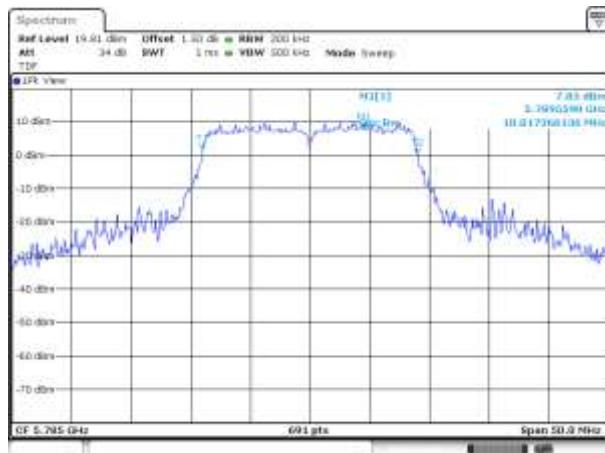
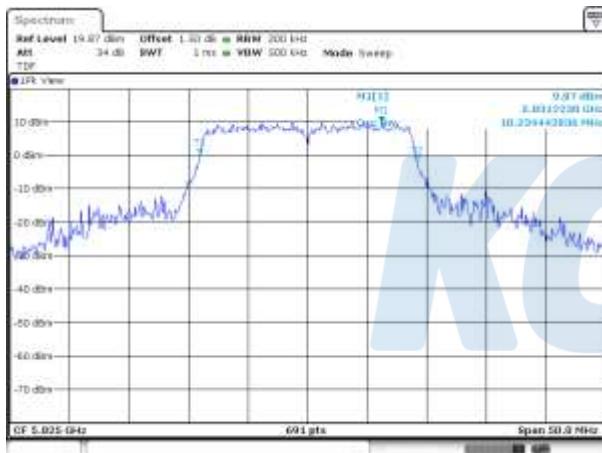


KCTL Inc.

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

Page (322) of (1046)

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**

-

Blank

KCTL Inc.

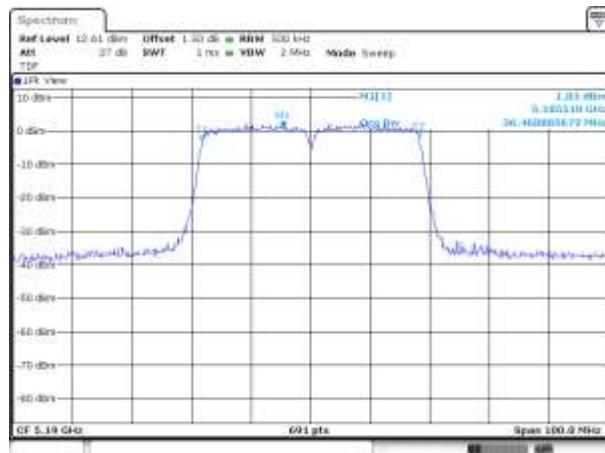
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

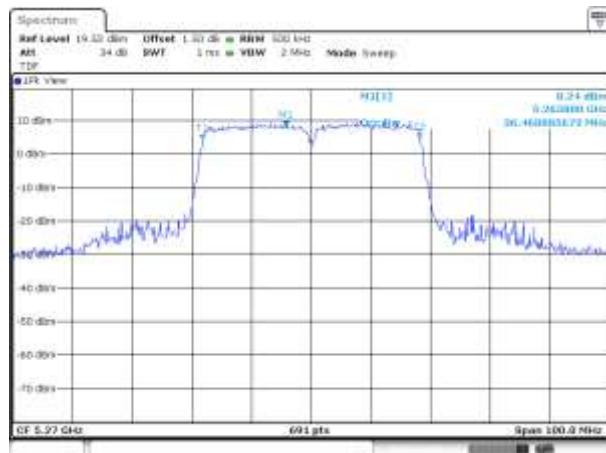
Page (323) of (1046)

KCTL

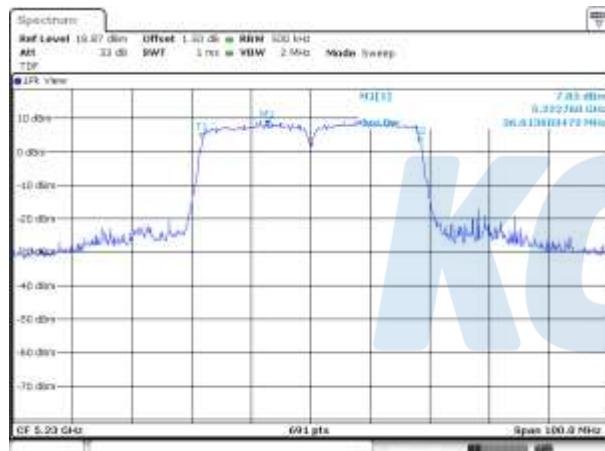
UNII-1 / 802.11n HT40 / 5 190 MHz



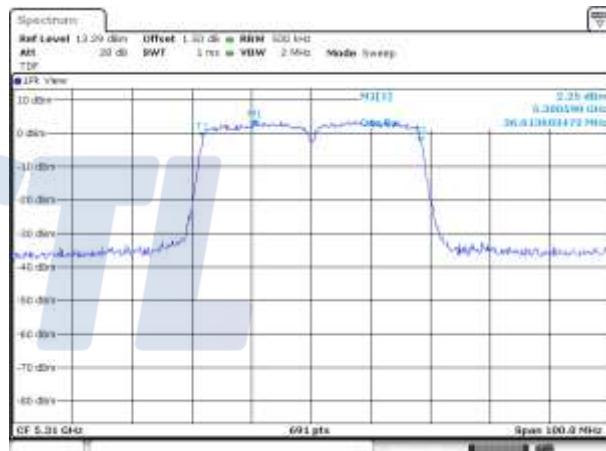
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



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



KCTL Inc.

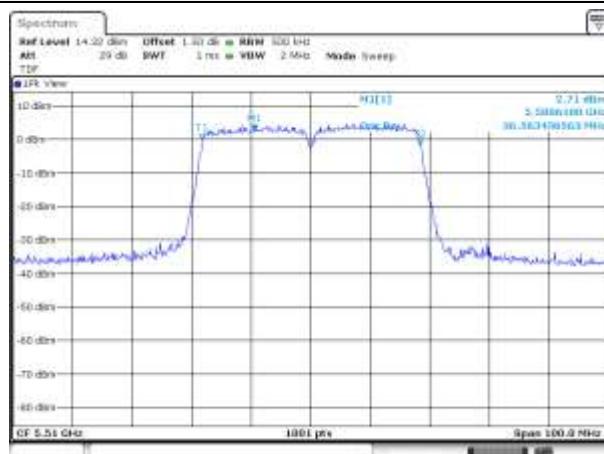
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

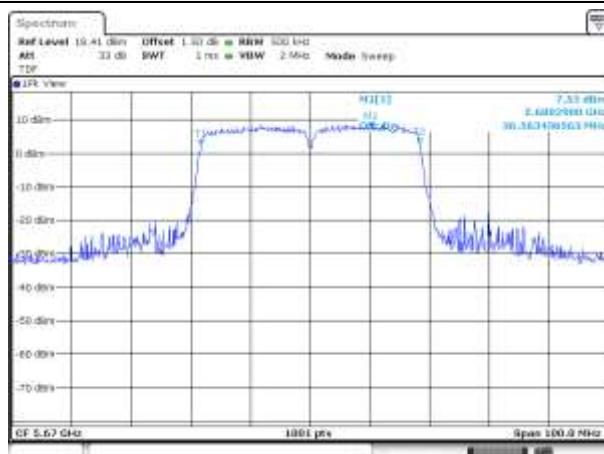
Page (324) of (1046)

KCTL

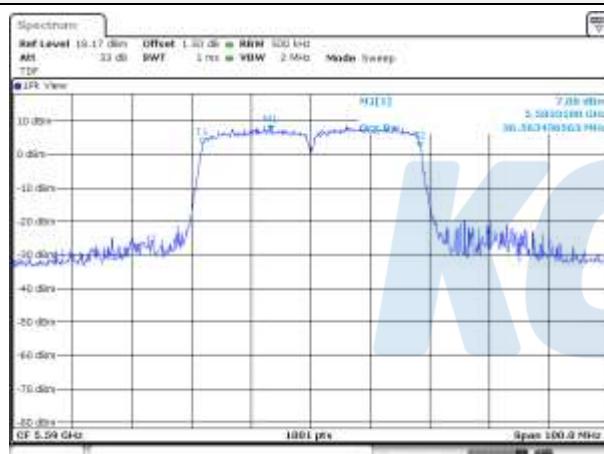
UNII-2C / 802.11n HT40 / 5 510 MHz



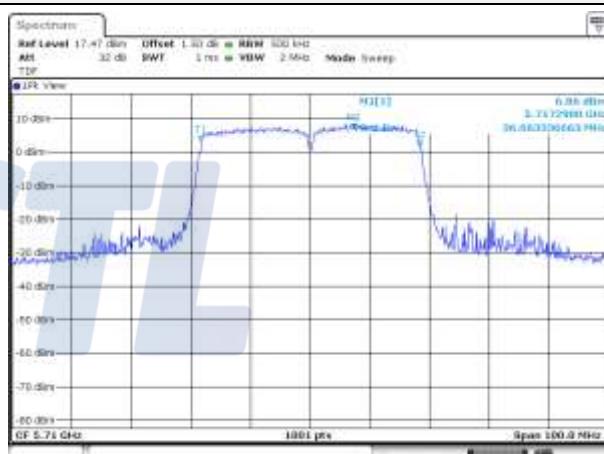
UNII-2C / 802.11n HT40 / 5 670 MHz



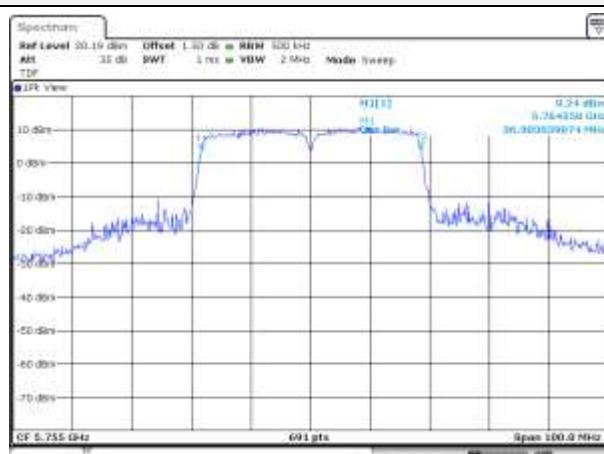
UNII-2C / 802.11n HT40 / 5 590 MHz



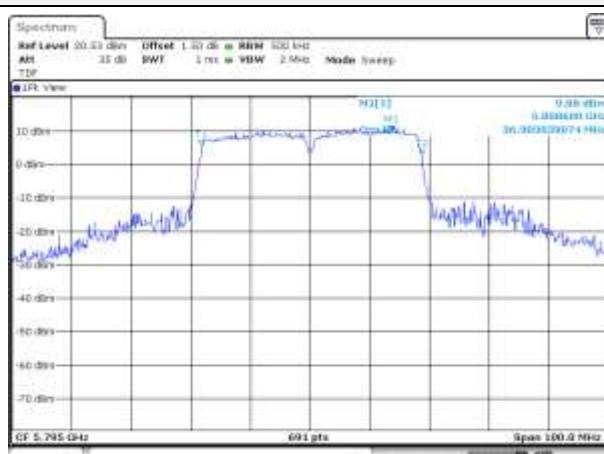
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



KCTL Inc.

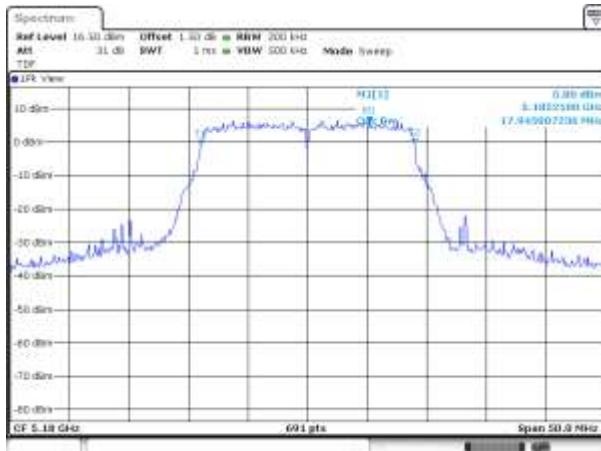
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

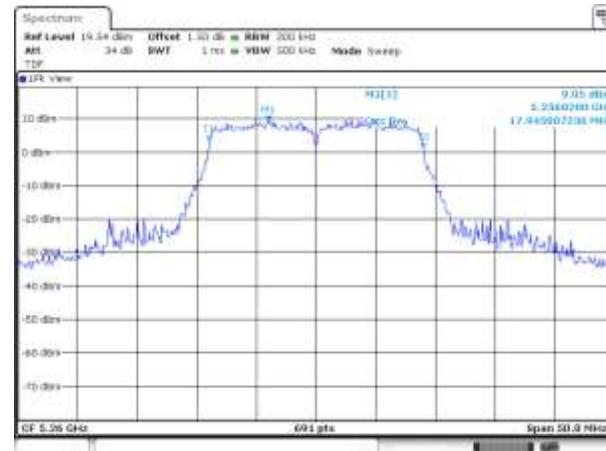
Page (325) of (1046)

KCTL

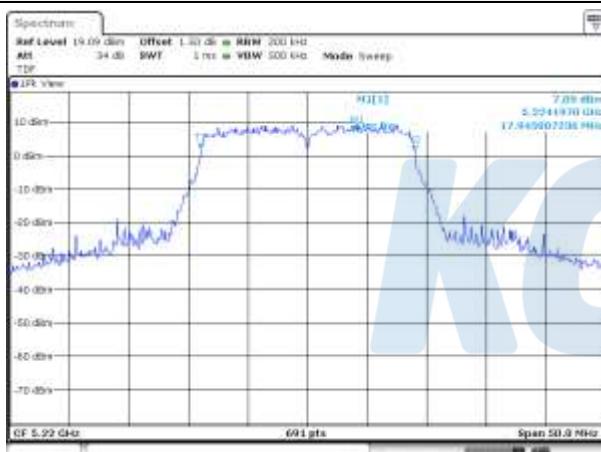
UNII-1 / 802.11ac VHT20 / 5 180 MHz



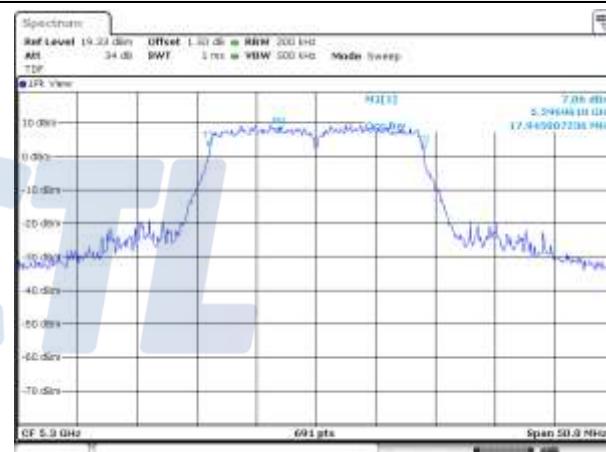
UNII-2A / 802.11ac VHT20 / 5 260 MHz



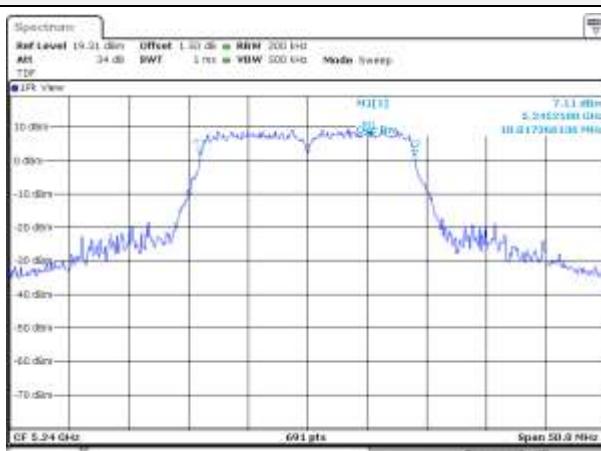
UNII-1 / 802.11ac VHT20 / 5 220 MHz



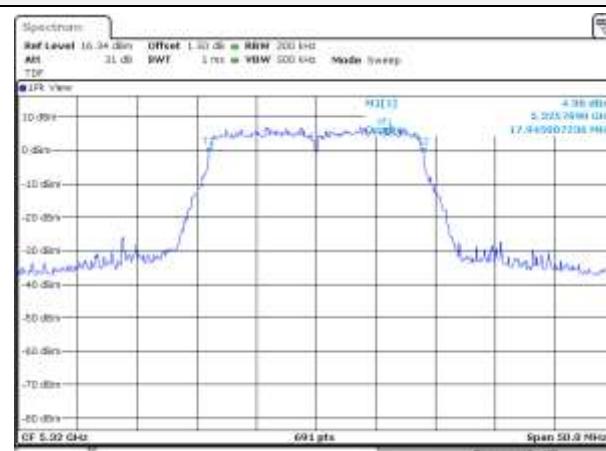
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



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



This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

KCTL Inc.

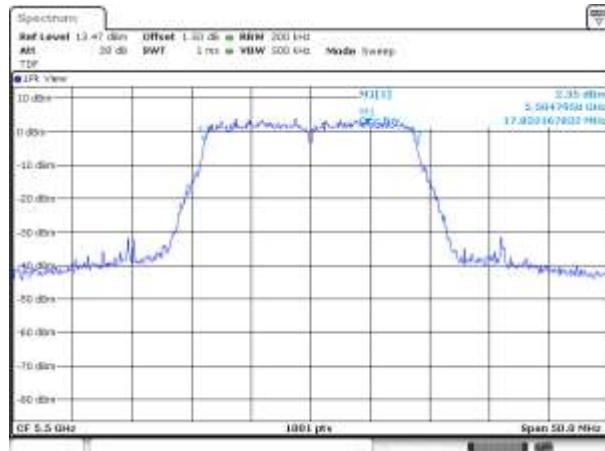
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

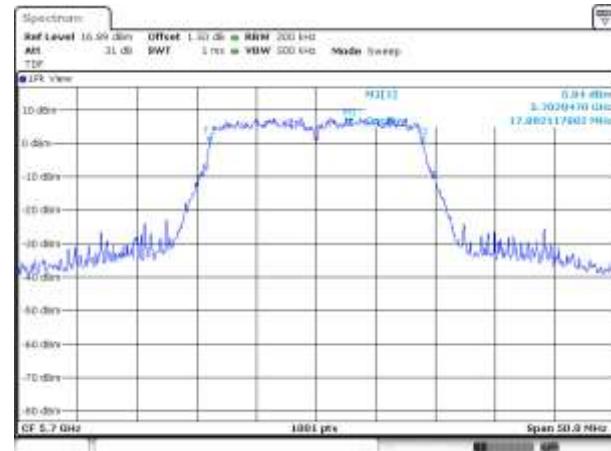
Page (326) of (1046)

KCTL

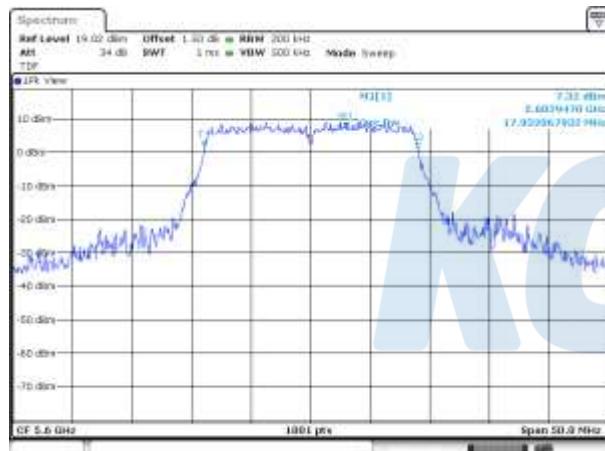
UNII-2C / 802.11ac VHT20 / 5 500 MHz



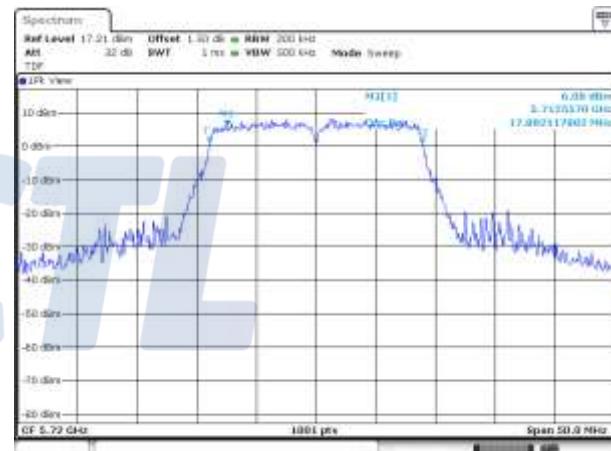
UNII-2C / 802.11ac VHT20 / 5 700 MHz



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



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

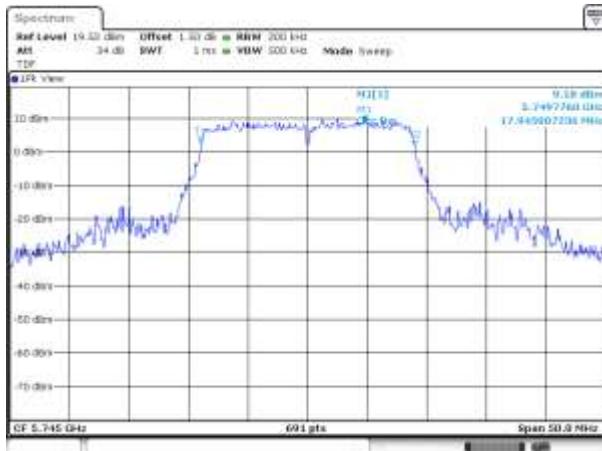
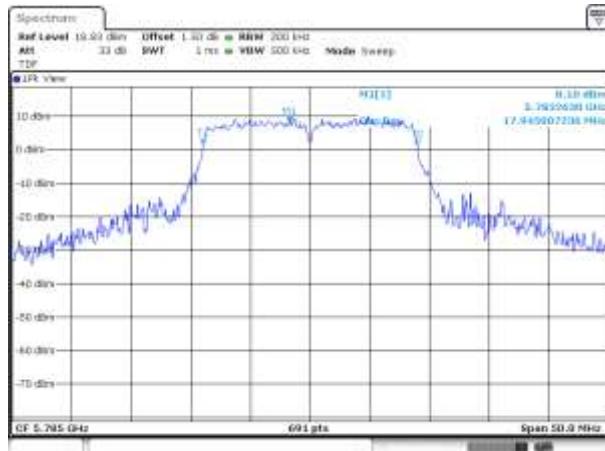
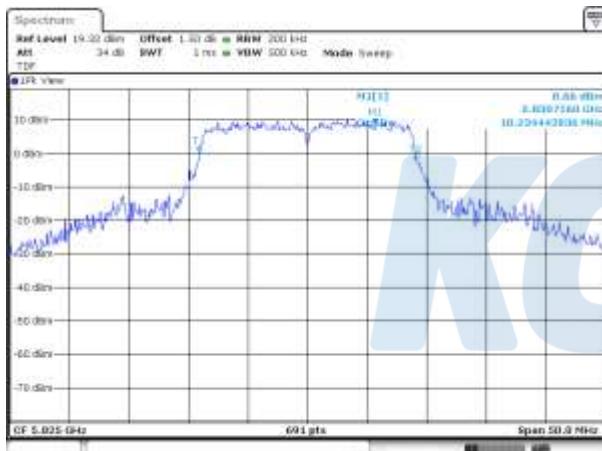


KCTL Inc.

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

Page (327) of (1046)

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**

-

Blank

KCTL Inc.

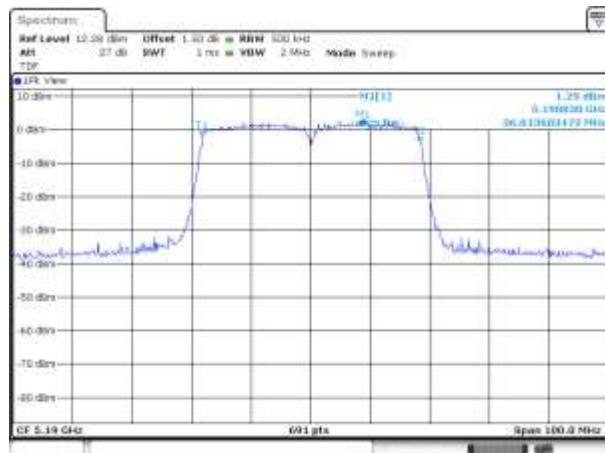
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

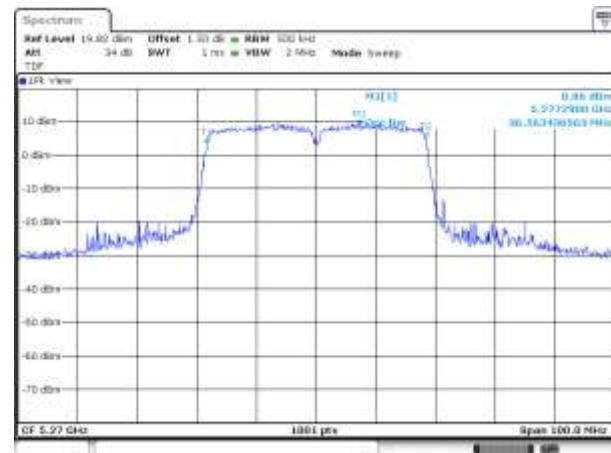
Page (328) of (1046)

KCTL

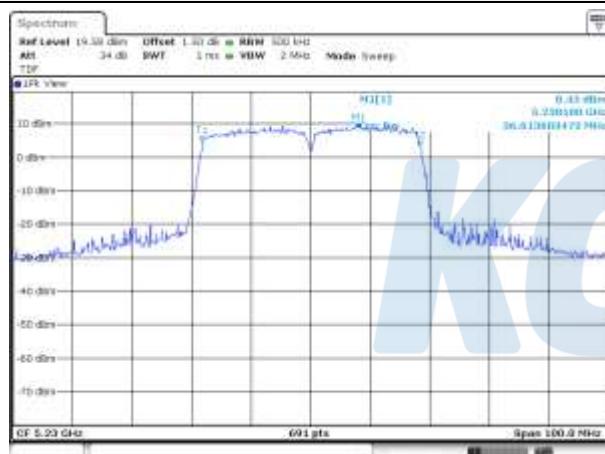
UNII-1 / 802.11ac VHT40 / 5 190 MHz



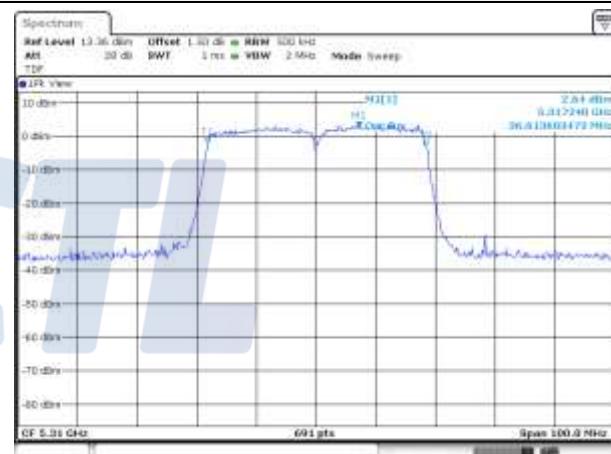
UNII-2A / 802.11ac VHT40 / 5 270 MHz



UNII-1 / 802.11ac VHT40 / 5 230 MHz



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



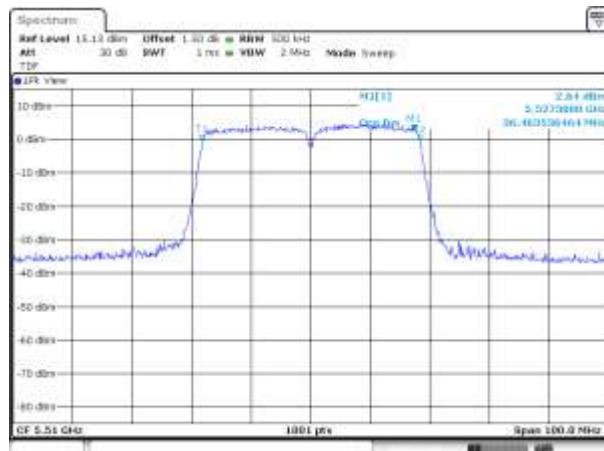
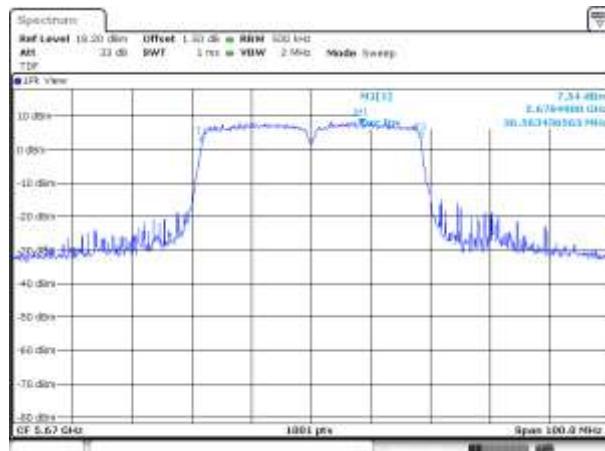
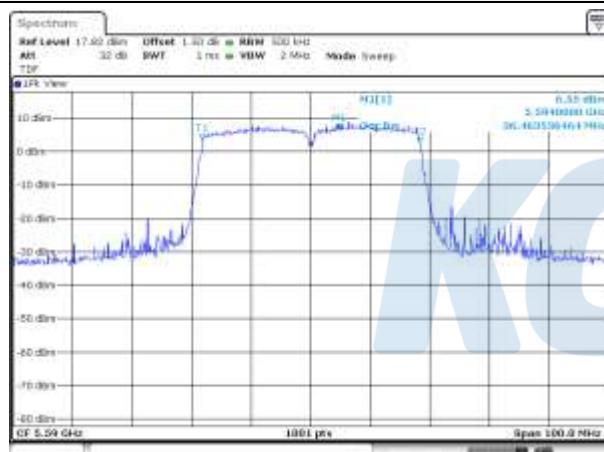
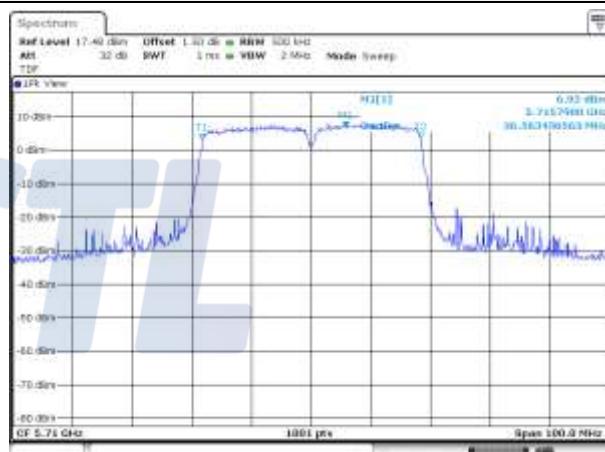
KCTL Inc.

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

Page (329) of (1046)

KCTL

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.

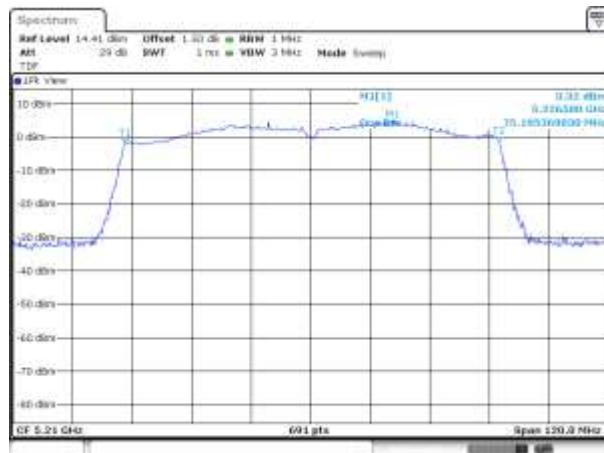
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

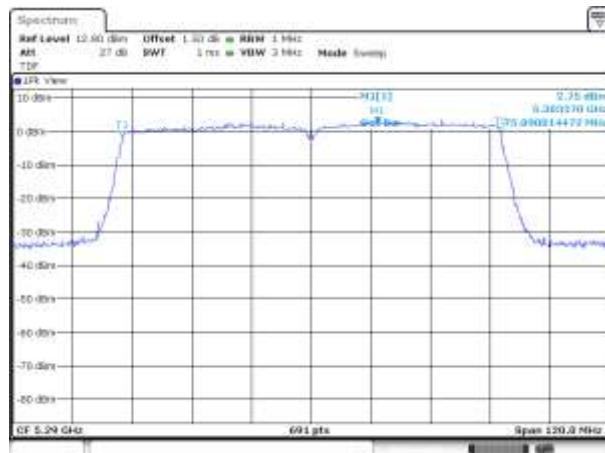
Page (330) of (1046)

KCTL

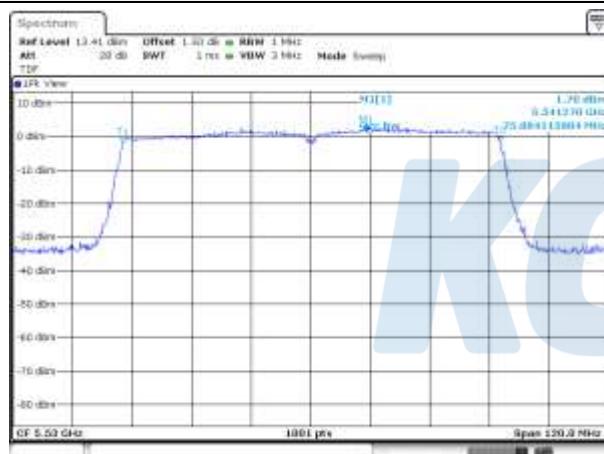
UNII-1 / 802.11ac VHT80 / 5 210 MHz



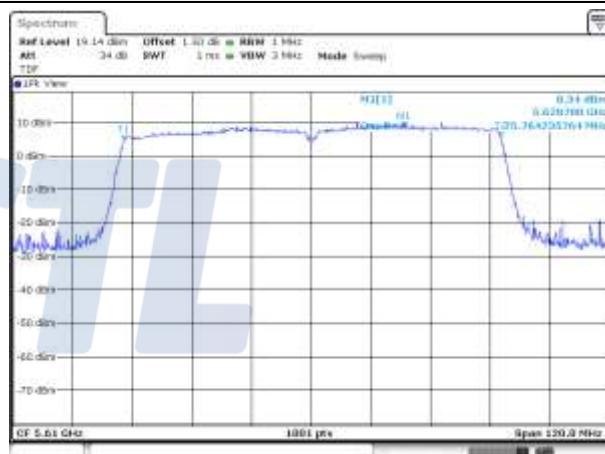
UNII-2A / 802.11ac VHT80 / 5 290 MHz



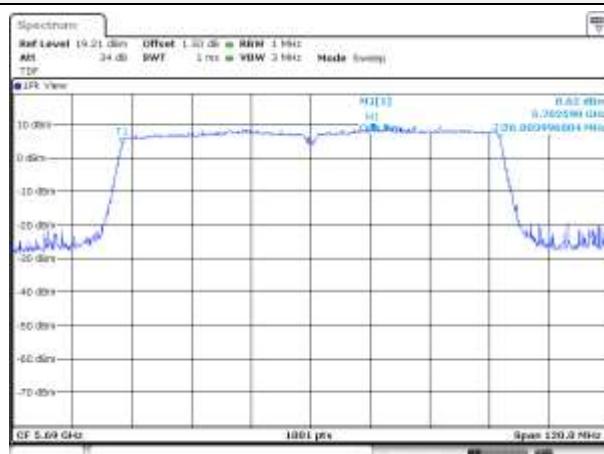
UNII-2C / 802.11ac VHT80 / 5 530 MHz



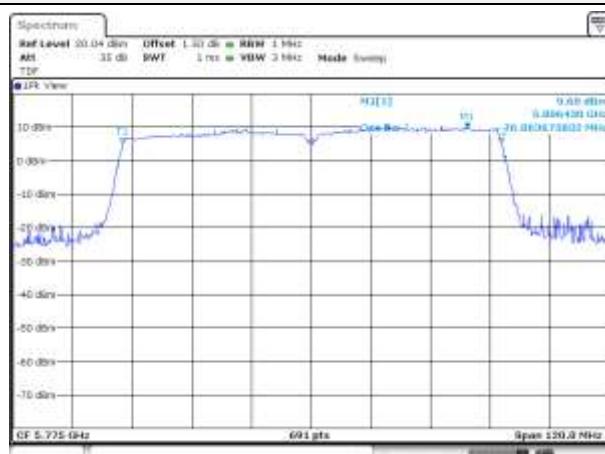
UNII-2C / 802.11ac VHT80 / 5 610 MHz



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



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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.:

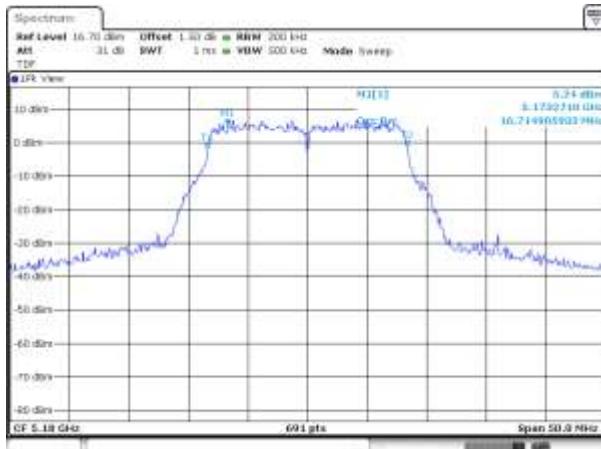
KR20-SRF0030-D

Page (331) of (1046)

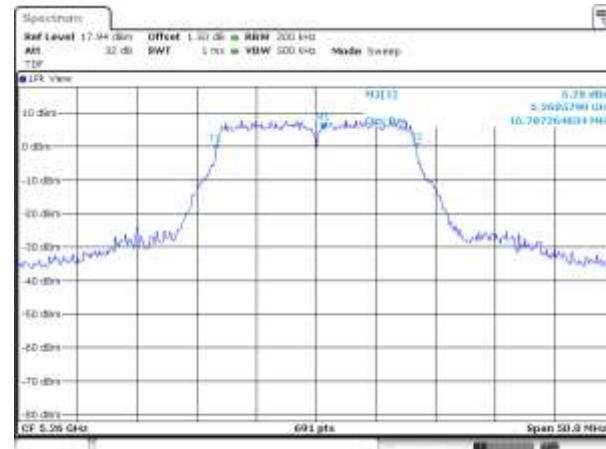
KCTL

ANT 2

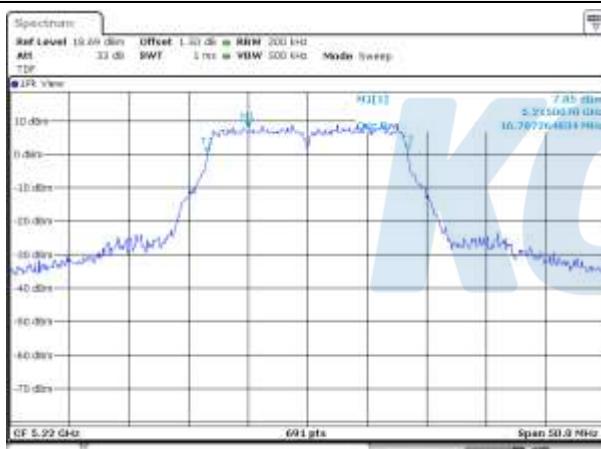
UNII-1 / 802.11a / 5 180 MHz



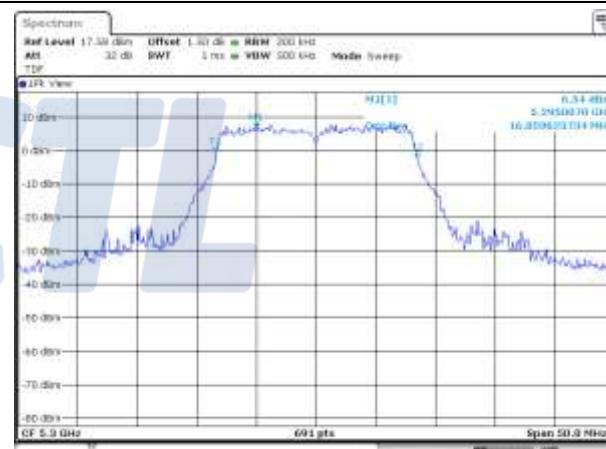
UNII-2A / 802.11a / 5 260 MHz



UNII-1 / 802.11a / 5 220 MHz



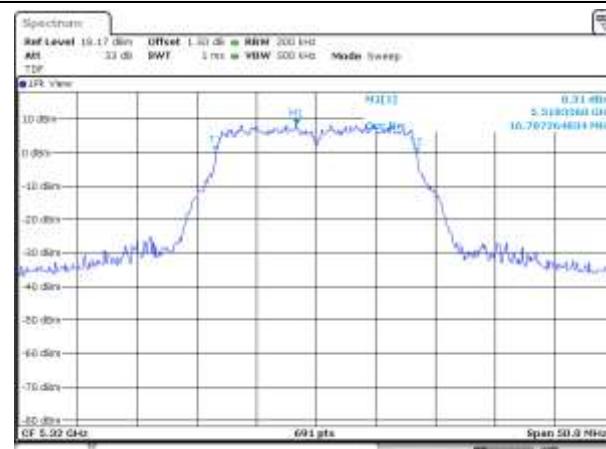
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



KCTL Inc.

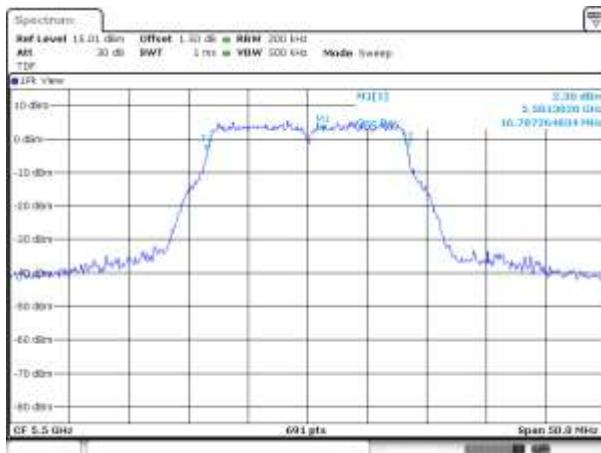
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

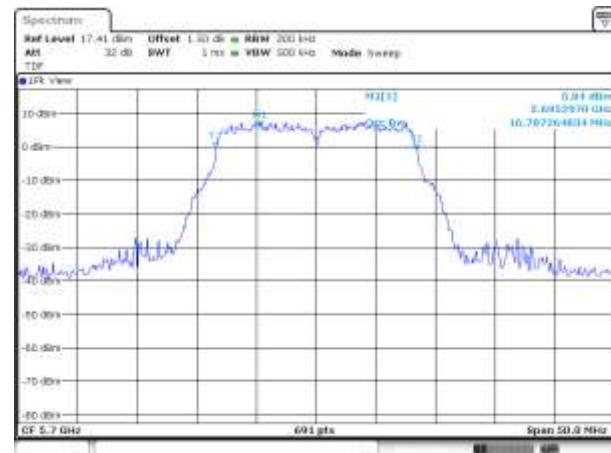
Page (332) of (1046)

KCTL

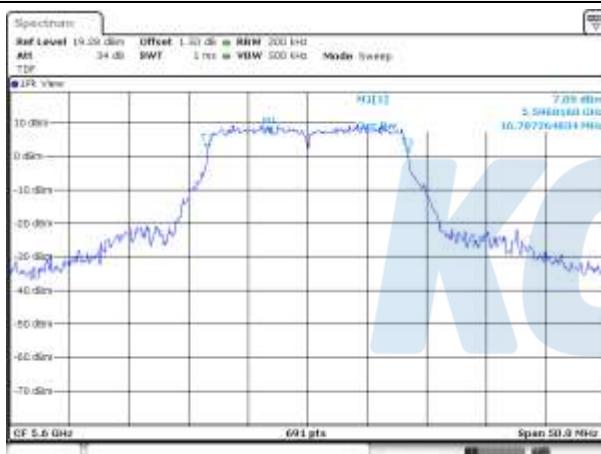
UNII-2C / 802.11a / 5 500 MHz



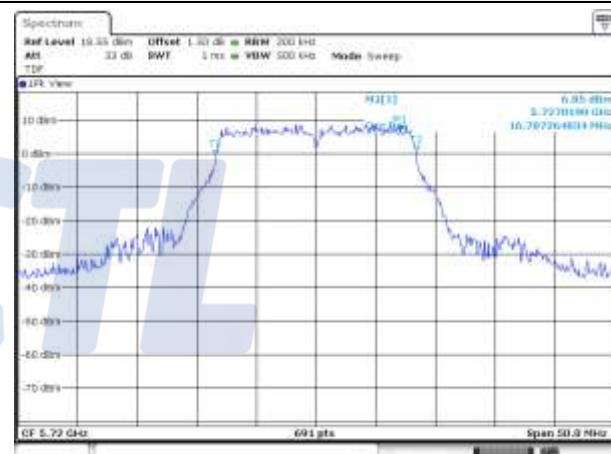
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz

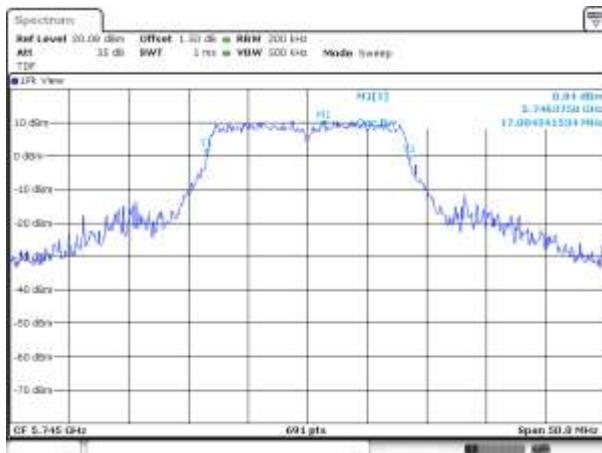
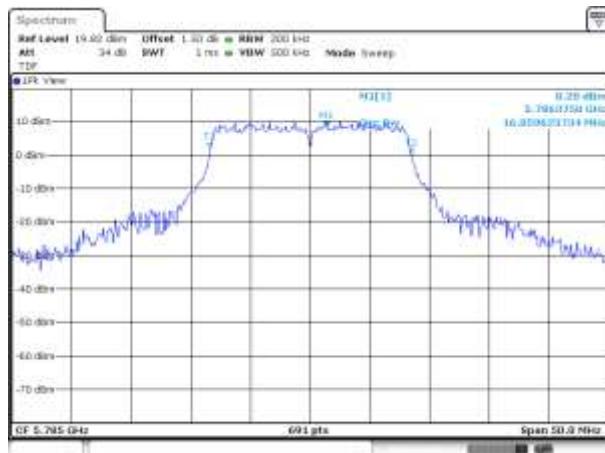
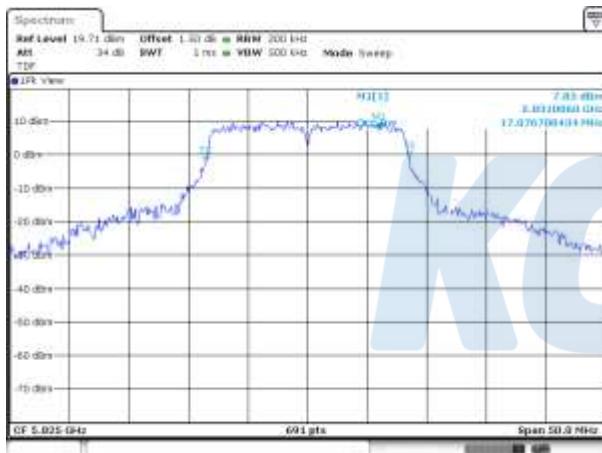


KCTL Inc.

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

Page (333) of (1046)

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

-

Blank

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

Page (334) of (1046)

KCTL

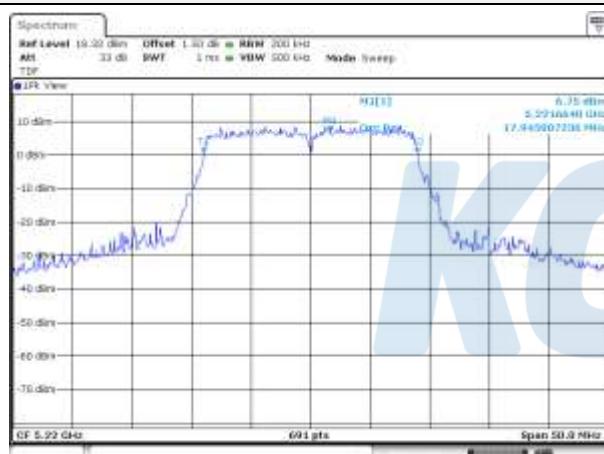
UNII-1 / 802.11n HT20 / 5 180 MHz



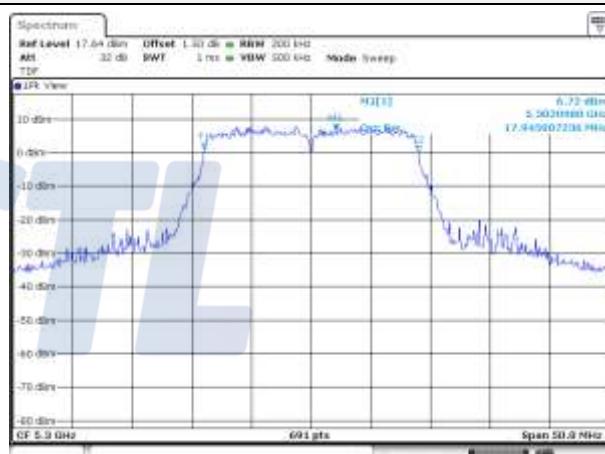
UNII-2A / 802.11n HT20 / 5 260 MHz



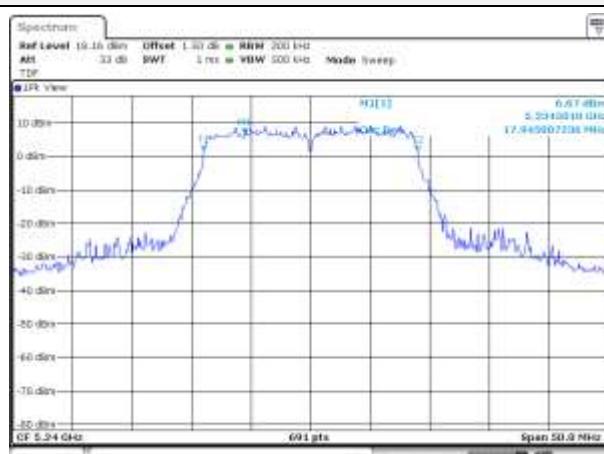
UNII-1 / 802.11n HT20 / 5 220 MHz



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.

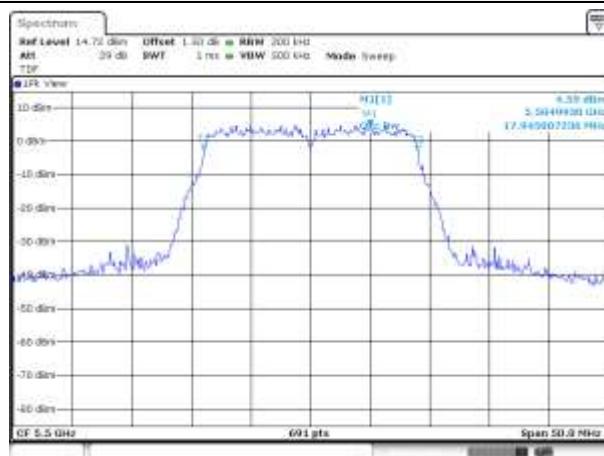
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

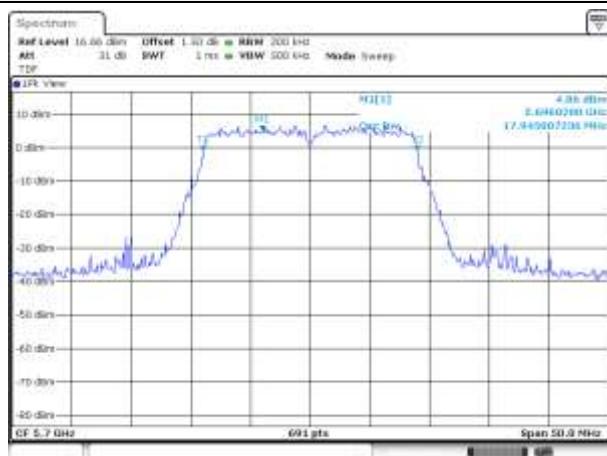
Page (335) of (1046)

KCTL

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



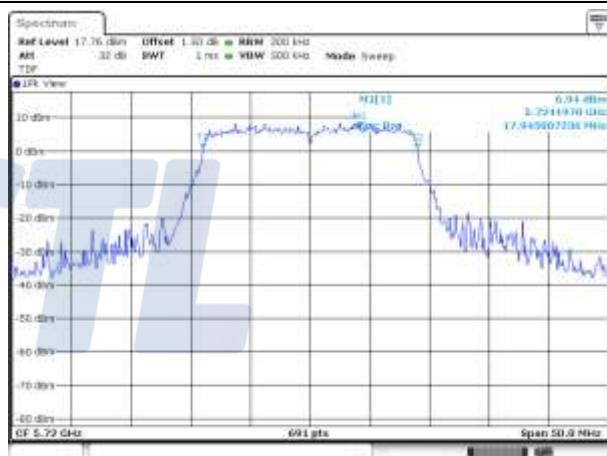
UNII-2C / 802.11n HT20 / 5 700 MHz



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



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

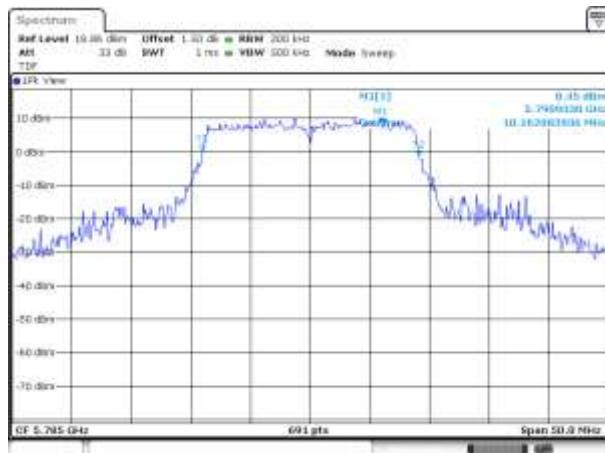
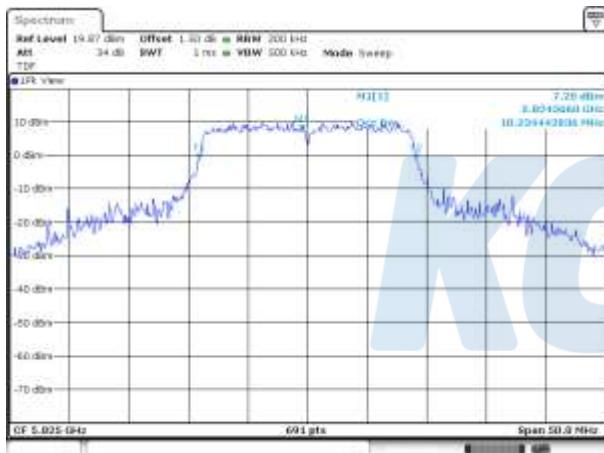


KCTL Inc.

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

Page (336) of (1046)

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**

-

Blank

KCTL Inc.

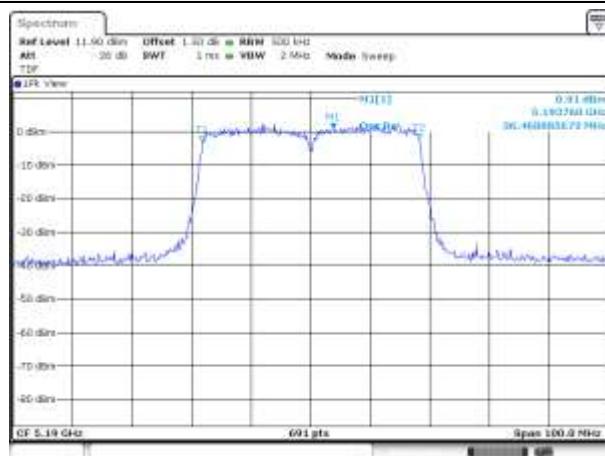
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

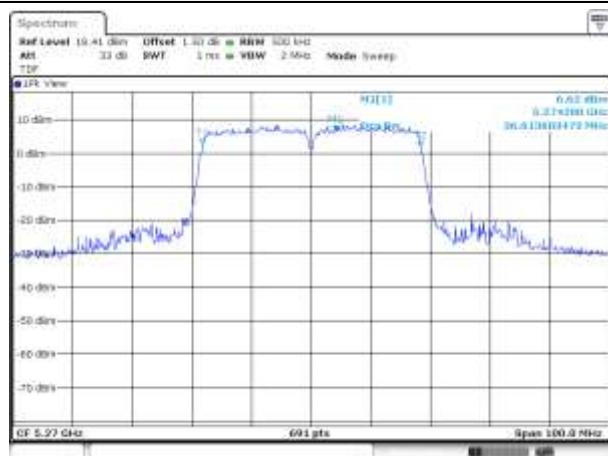
Page (337) of (1046)

KCTL

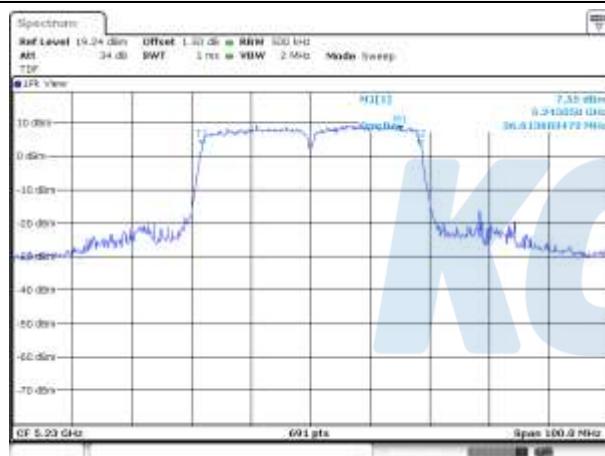
UNII-1 / 802.11n HT40 / 5 190 MHz



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



UNII-1 / 802.11n HT40 / 5 230 MHz



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



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

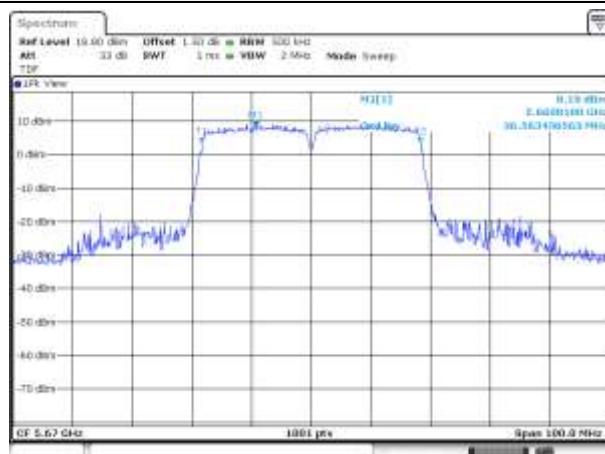
Page (338) of (1046)

KCTL

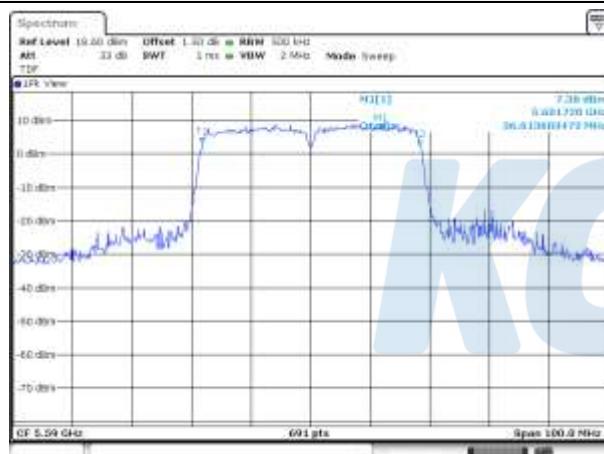
UNII-2C / 802.11n HT40 / 5 510 MHz



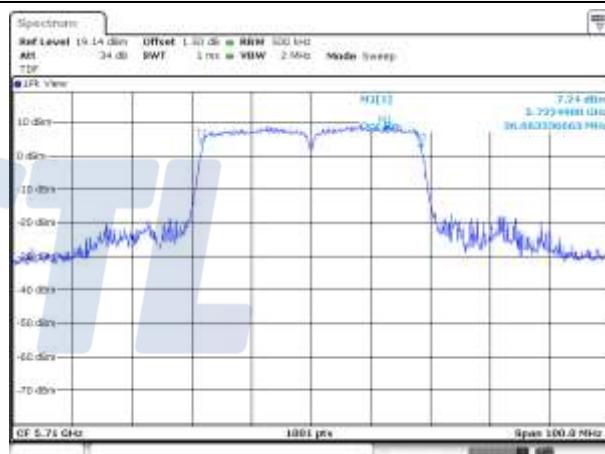
UNII-2C / 802.11n HT40 / 5 670 MHz



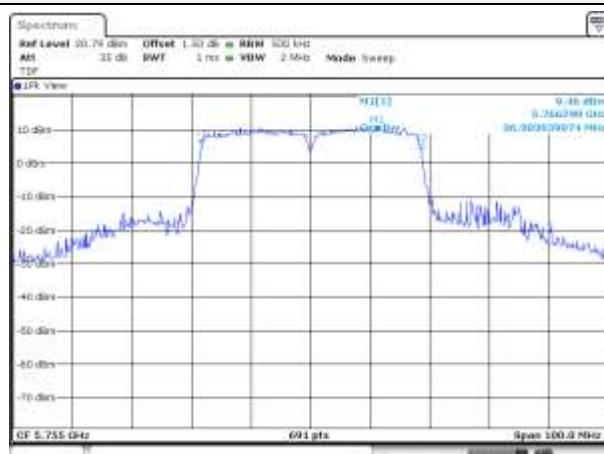
UNII-2C / 802.11n HT40 / 5 590 MHz



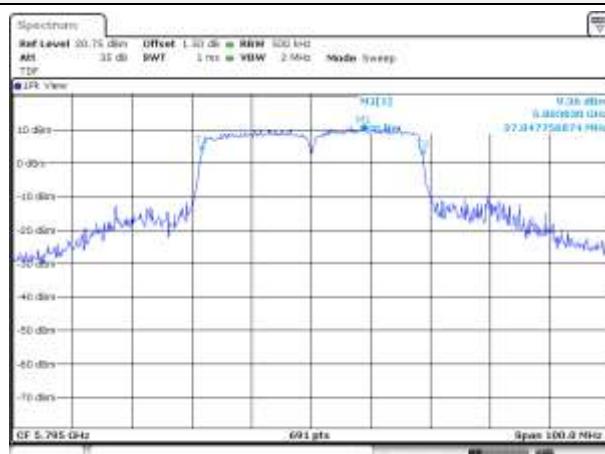
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



KCTL Inc.

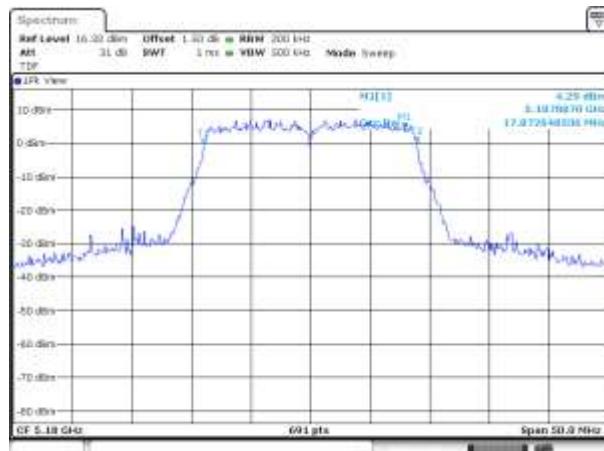
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

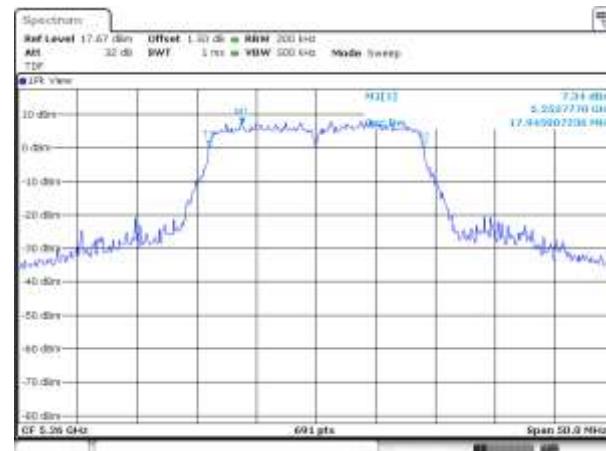
Page (339) of (1046)

KCTL

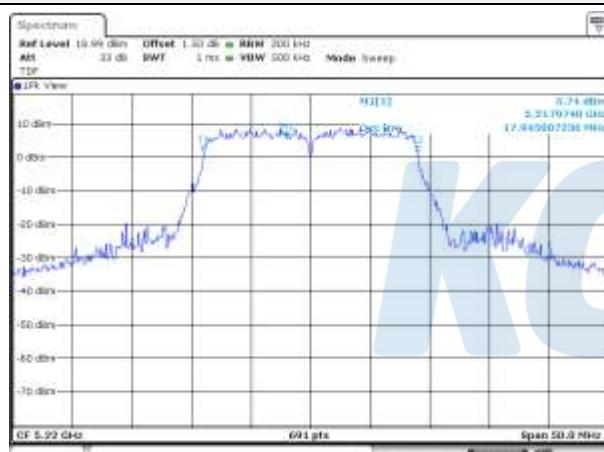
UNII-1 / 802.11ac VHT20 / 5 180 MHz



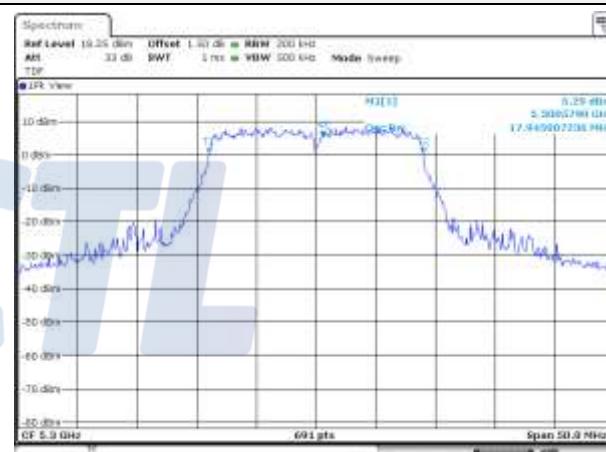
UNII-2A / 802.11ac VHT20 / 5 260 MHz



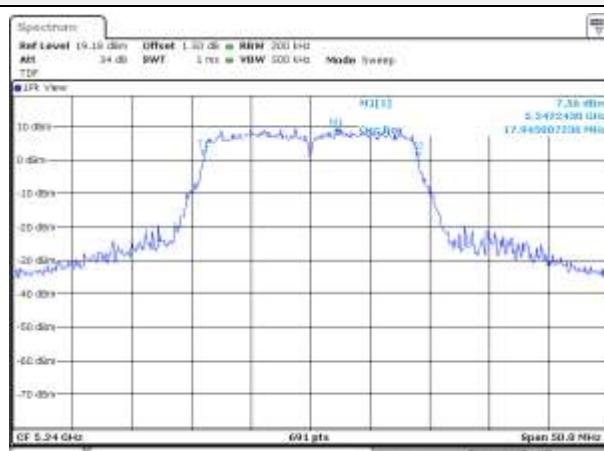
UNII-1 / 802.11ac VHT20 / 5 220 MHz



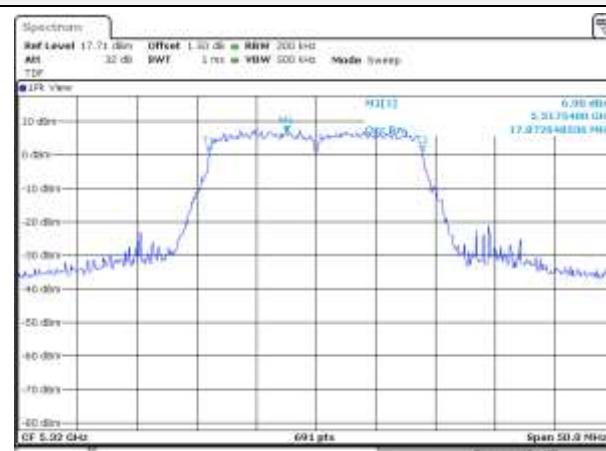
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



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



KCTL Inc.

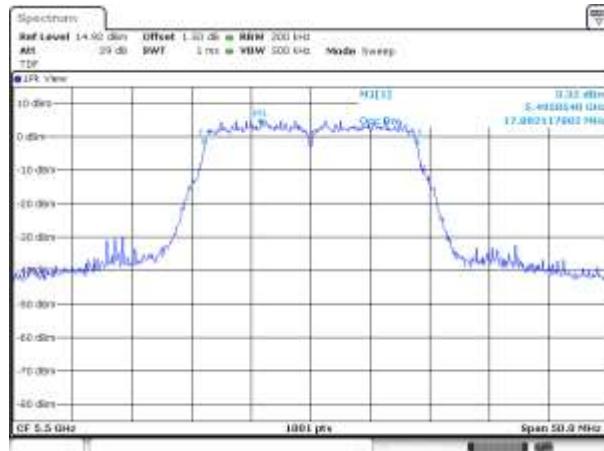
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

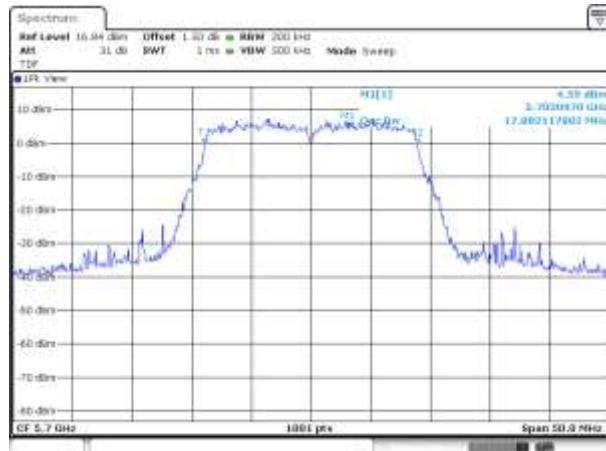
Page (340) of (1046)

KCTL

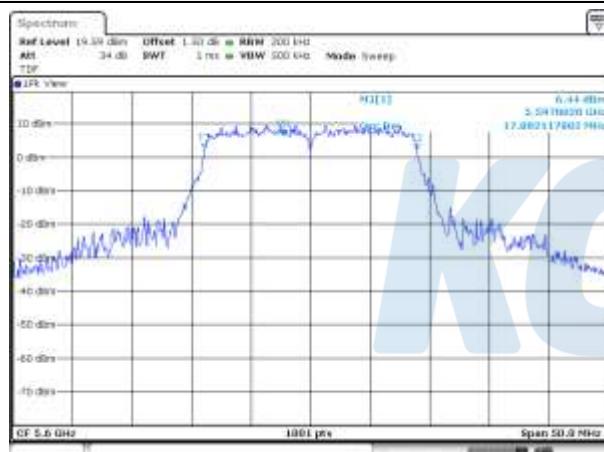
UNII-2C / 802.11ac VHT20 / 5 500 MHz



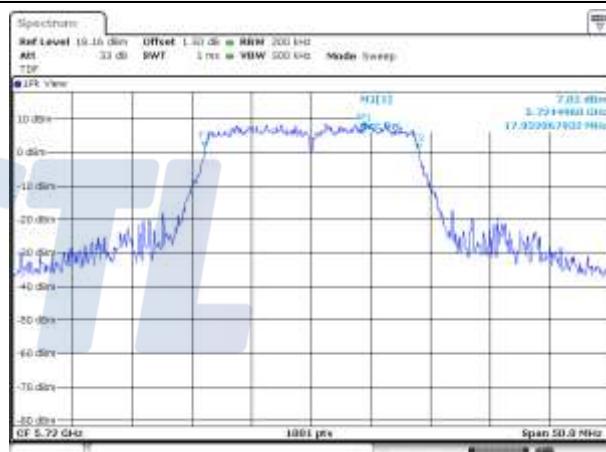
UNII-2C / 802.11ac VHT20 / 5 700 MHz



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



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

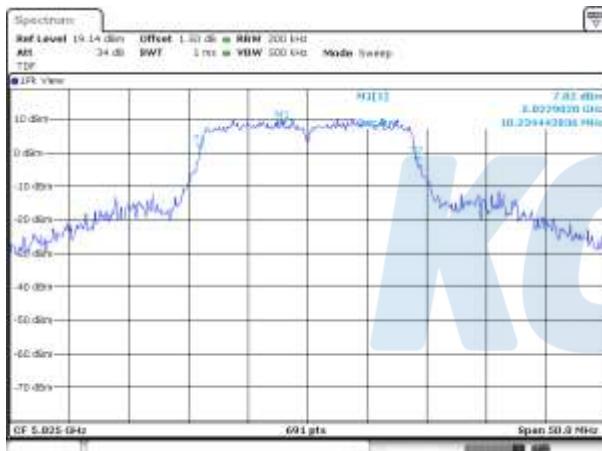


KCTL Inc.

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

Page (341) of (1046)

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**

-

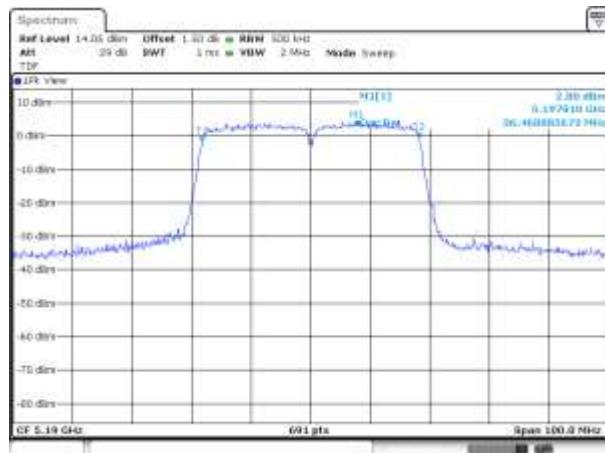
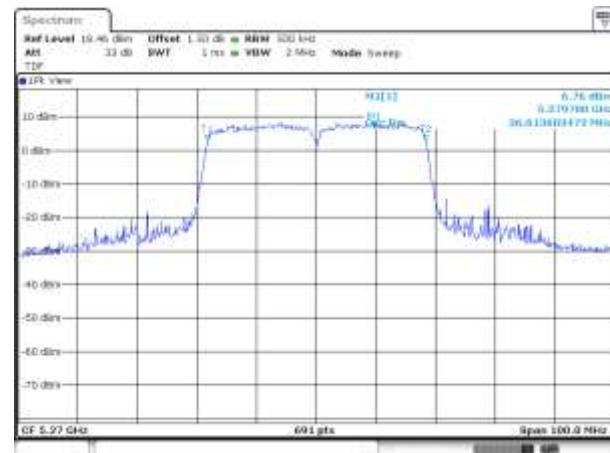
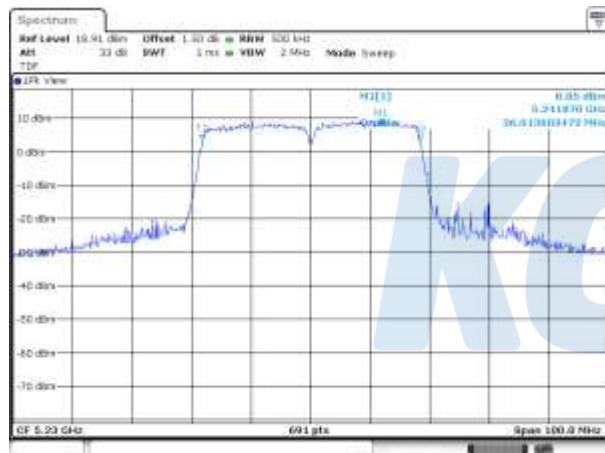
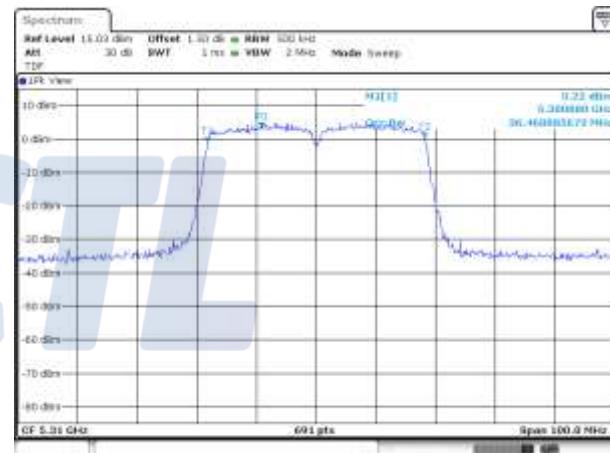
Blank

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

Page (342) of (1046)

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.

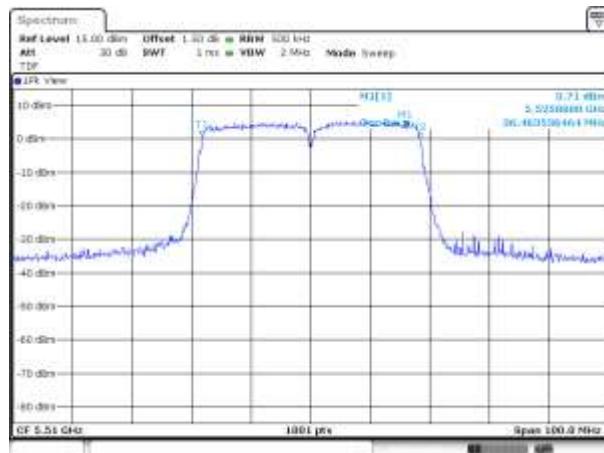
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

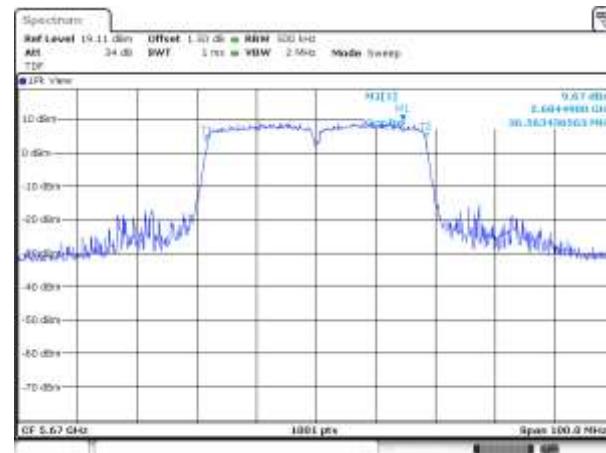
Page (343) of (1046)

KCTL

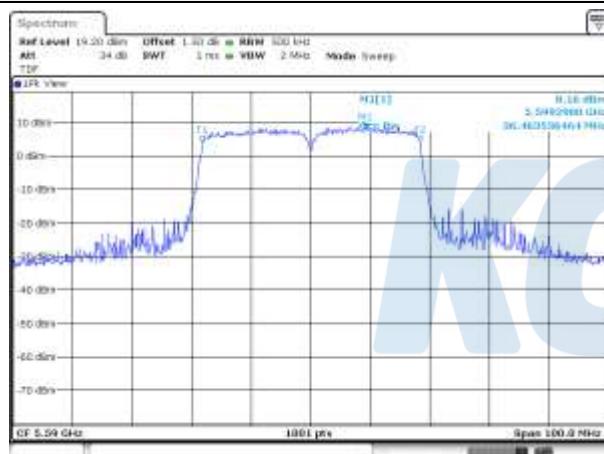
UNII-2C / 802.11ac VHT40 / 5 510 MHz



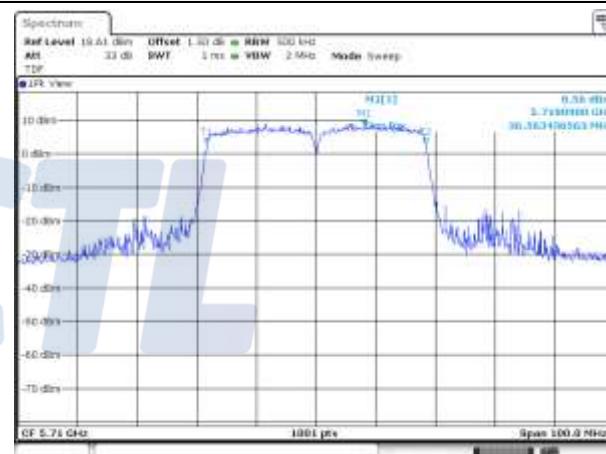
UNII-2C / 802.11ac VHT40 / 5 670 MHz



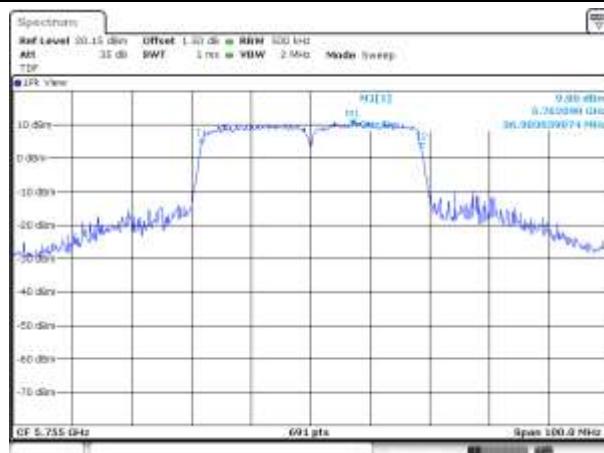
UNII-2C / 802.11ac VHT40 / 5 590 MHz



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.

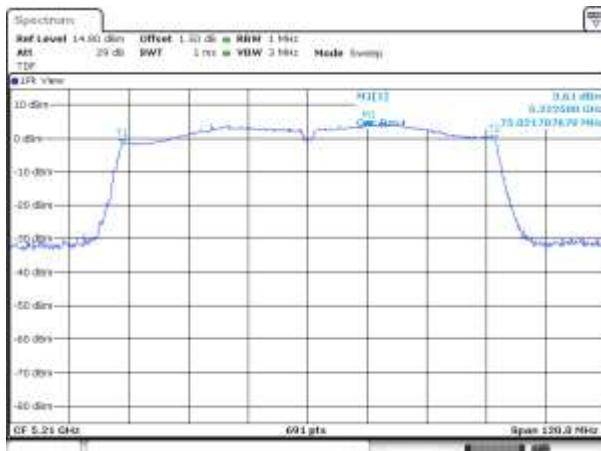
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

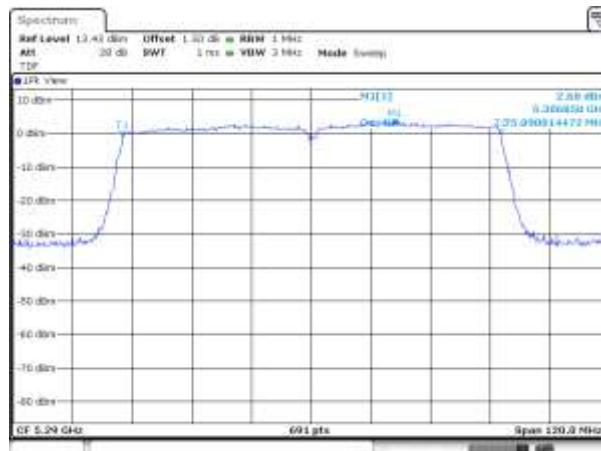
Page (344) of (1046)

KCTL

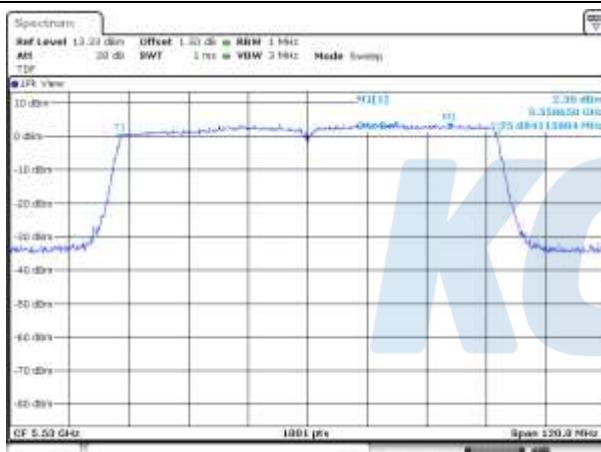
UNII-1 / 802.11ac VHT80 / 5 210 MHz



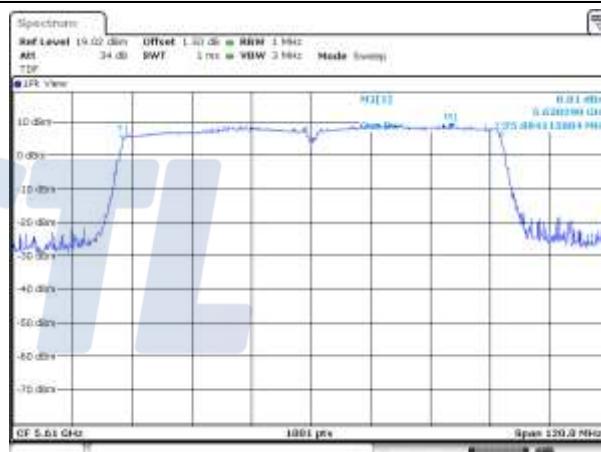
UNII-2A / 802.11ac VHT80 / 5 290 MHz



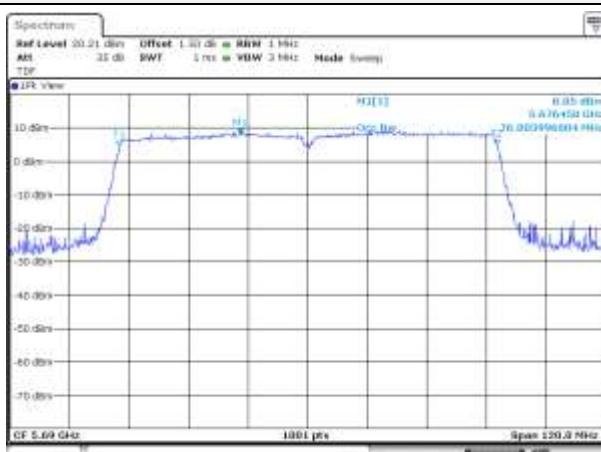
UNII-2C / 802.11ac VHT80 / 5 530 MHz



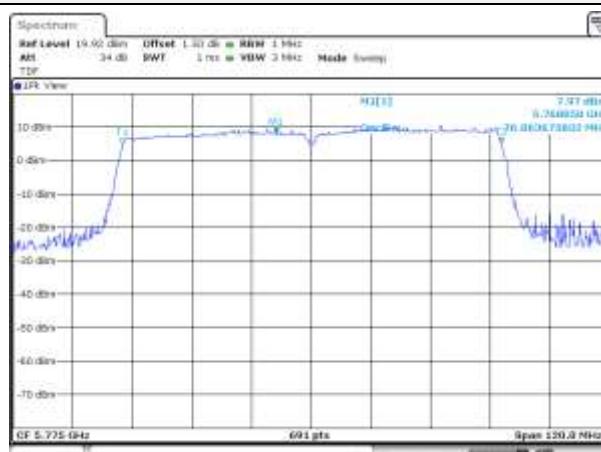
UNII-2C / 802.11ac VHT80 / 5 610 MHz



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



UNII-3 / 802.11ac VHT80 / 5 775 MHz



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

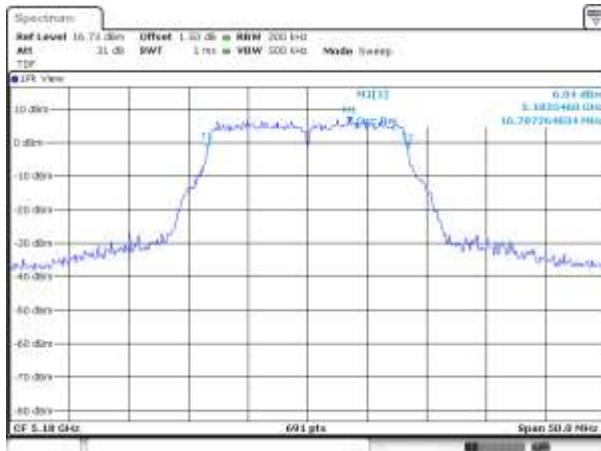
Report No.:
KR20-SRF0030-D

Page (345) of (1046)

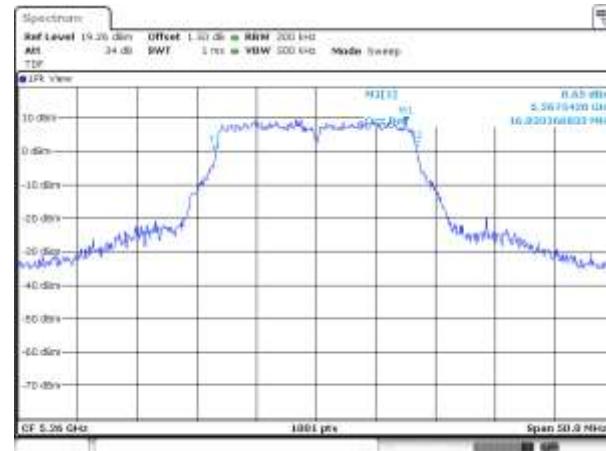
KCTL

ANT 3

UNII-1 / 802.11a / 5 180 MHz



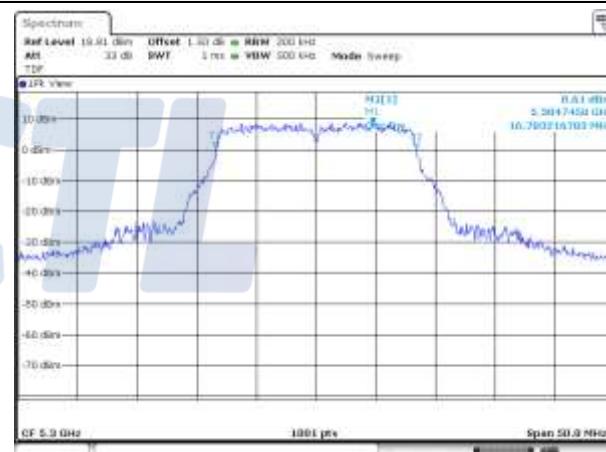
UNII-2A / 802.11a / 5 260 MHz



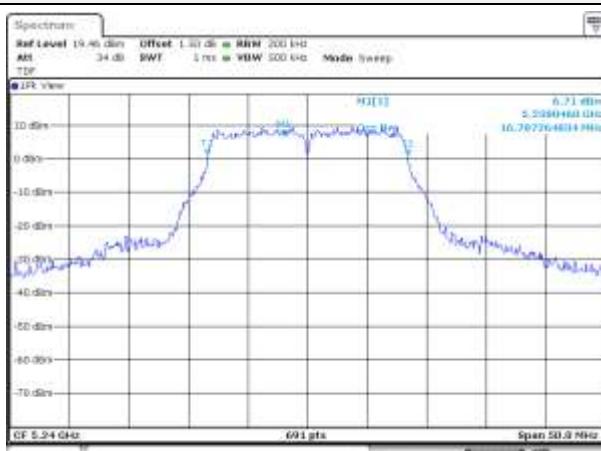
UNII-1 / 802.11a / 5 220 MHz



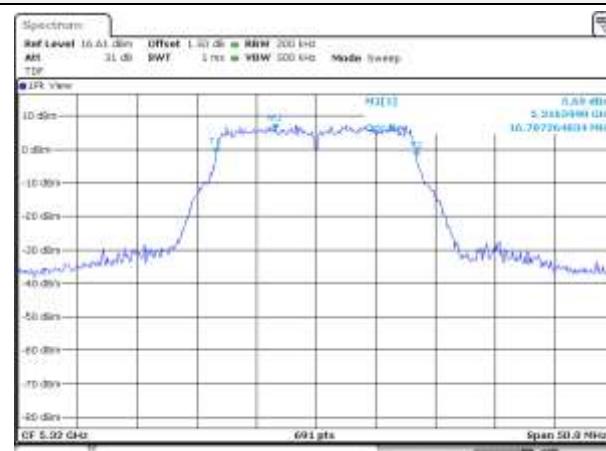
UNII-2A / 802.11a / 5 300 MHz



UNII-1 / 802.11a / 5 240 MHz



UNII-2A / 802.11a / 5 320 MHz



KCTL Inc.

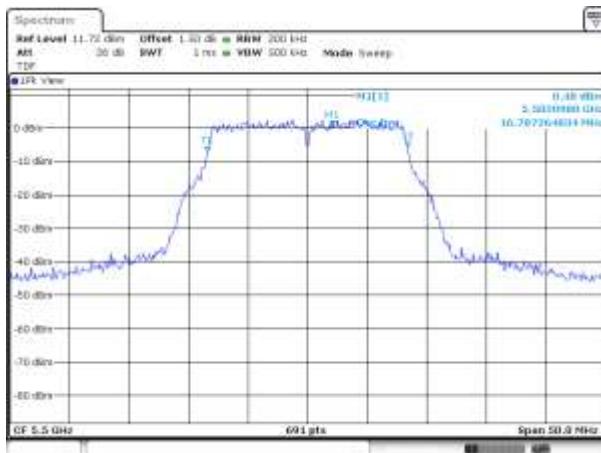
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

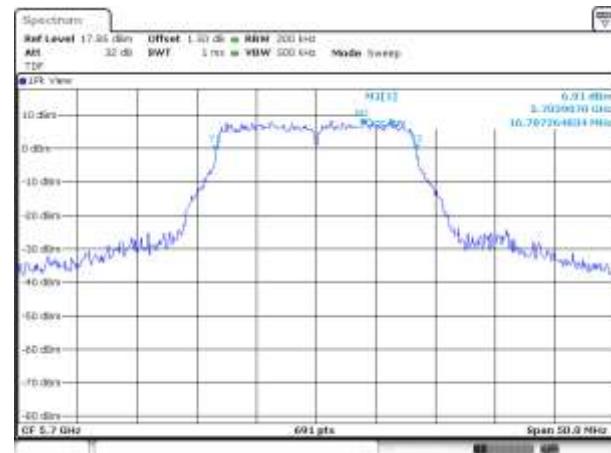
Page (346) of (1046)

KCTL

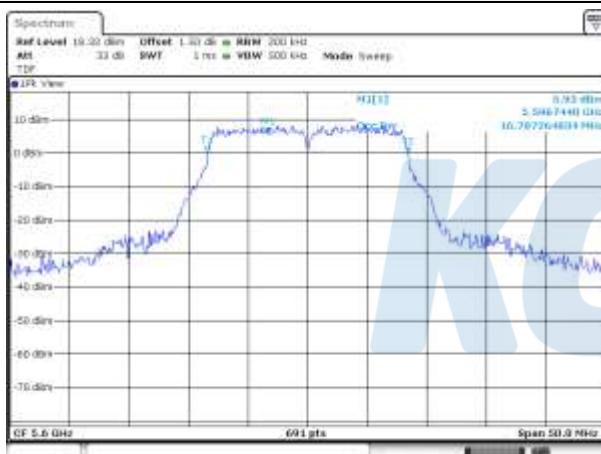
UNII-2C / 802.11a / 5 500 MHz



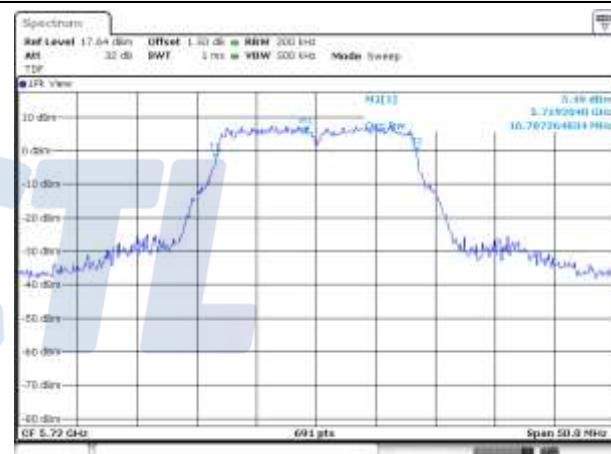
UNII-2C / 802.11a / 5 700 MHz



UNII-2C / 802.11a / 5 600 MHz



UNII-2C / 802.11a / 5 720 MHz



KCTL Inc.

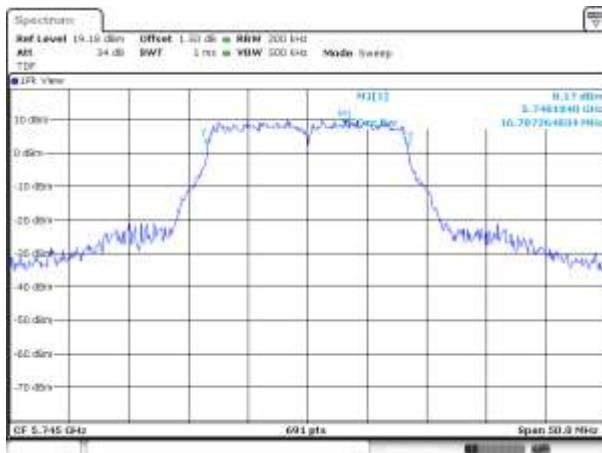
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

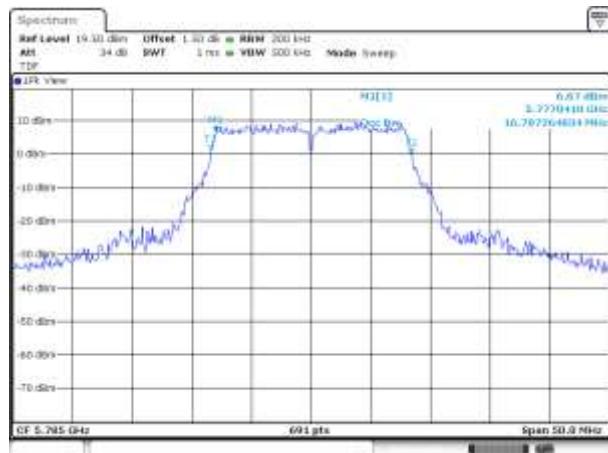
Page (347) of (1046)

KCTL

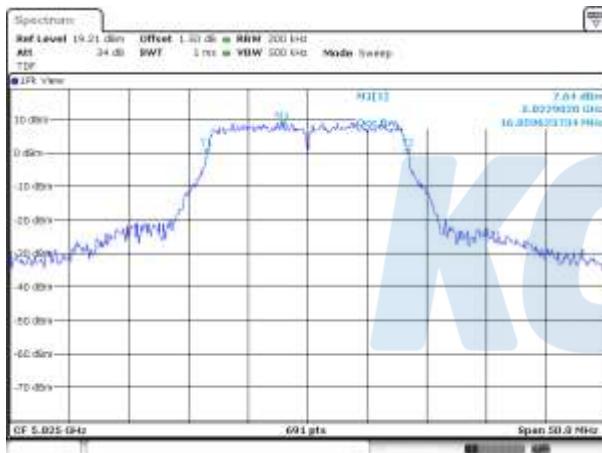
UNII-3 / 802.11a / 5 745 MHz



UNII-3 / 802.11a / 5 785 MHz



UNII-3 / 802.11a / 5 825 MHz



-

Blank

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

Page (348) of (1046)

KCTL

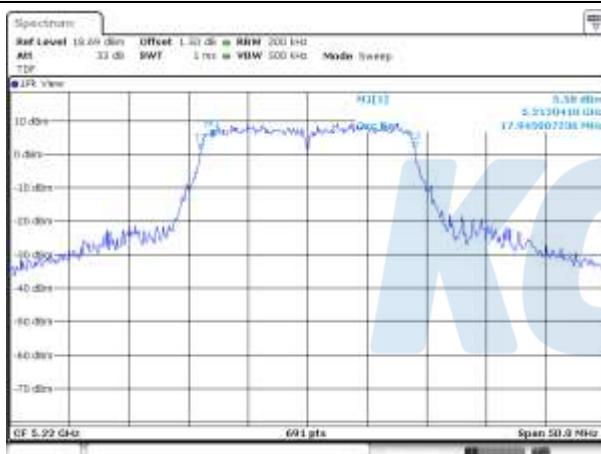
UNII-1 / 802.11n HT20 / 5 180 MHz



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.

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

Page (349) of (1046)

KCTL

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



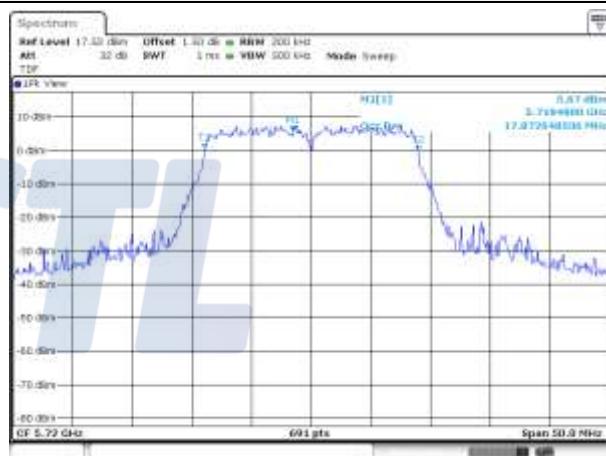
UNII-2C / 802.11n HT20 / 5 700 MHz



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



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



KCTL Inc.

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

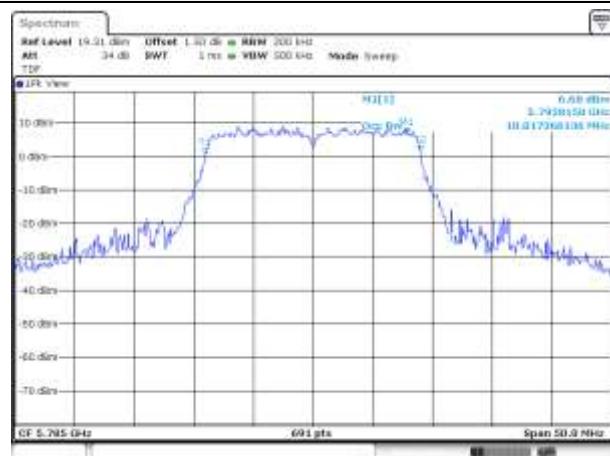
Page (350) of (1046)

KCTL

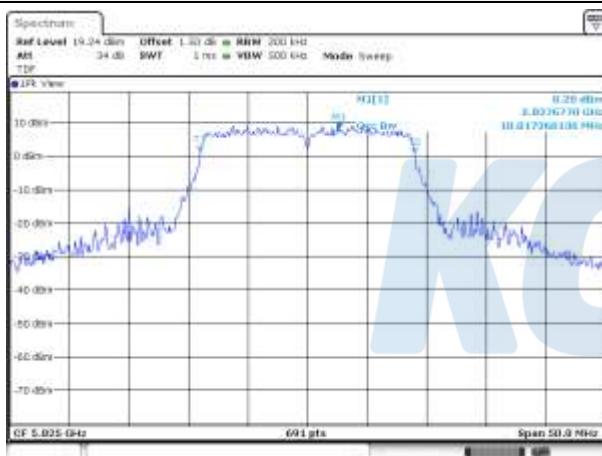
UNII-3 / 802.11n HT20 / 5 745 MHz



UNII-3 / 802.11n HT20 / 5 785 MHz



UNII-3 / 802.11n HT20 / 5 825 MHz



-

Blank

KCTL Inc.

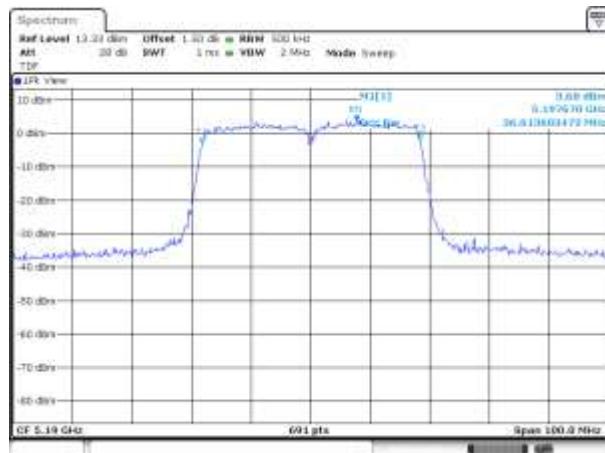
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

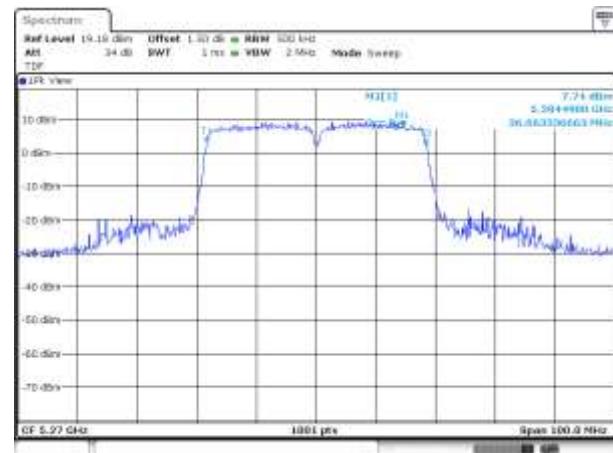
Page (351) of (1046)

KCTL

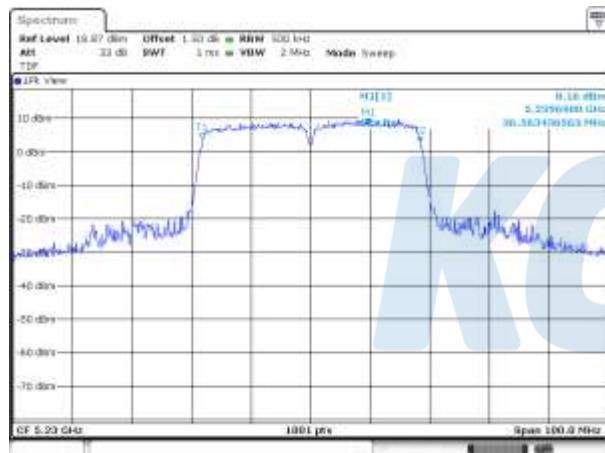
UNII-1 / 802.11n HT40 / 5 190 MHz



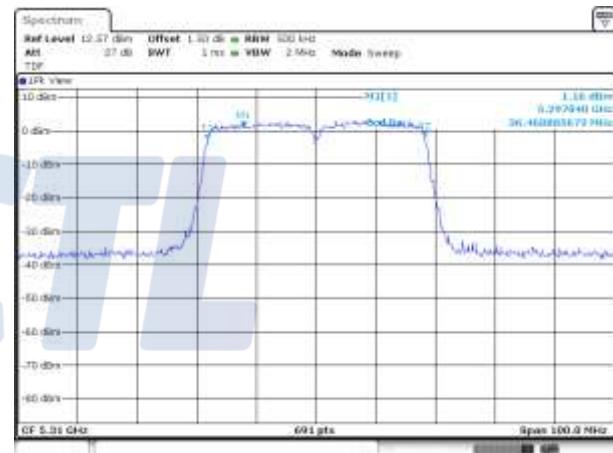
UNII-2A / 802.11n HT40 / 5 270 MHz



UNII-1 / 802.11n HT40 / 5 230 MHz



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



KCTL Inc.

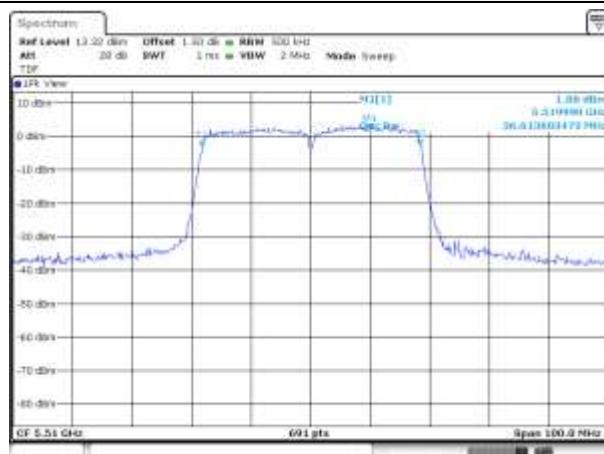
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

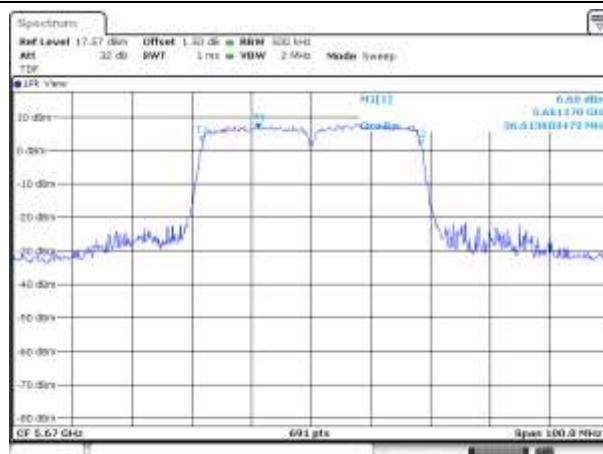
Page (352) of (1046)

KCTL

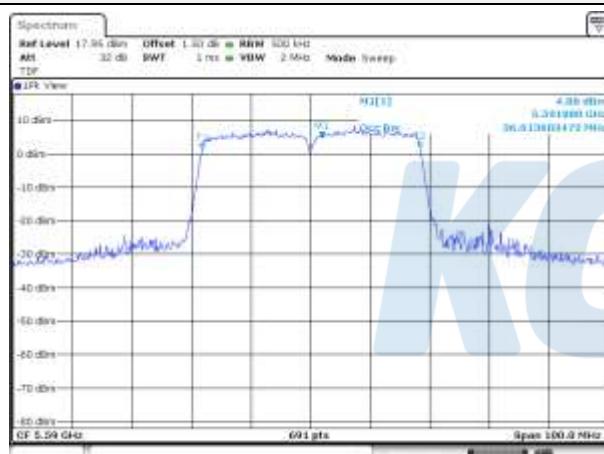
UNII-2C / 802.11n HT40 / 5 510 MHz



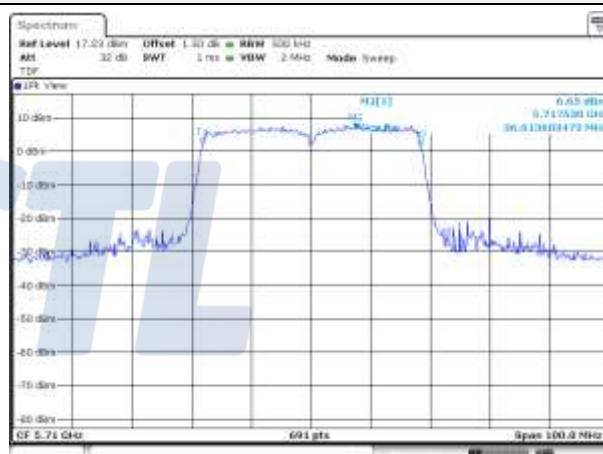
UNII-2C / 802.11n HT40 / 5 670 MHz



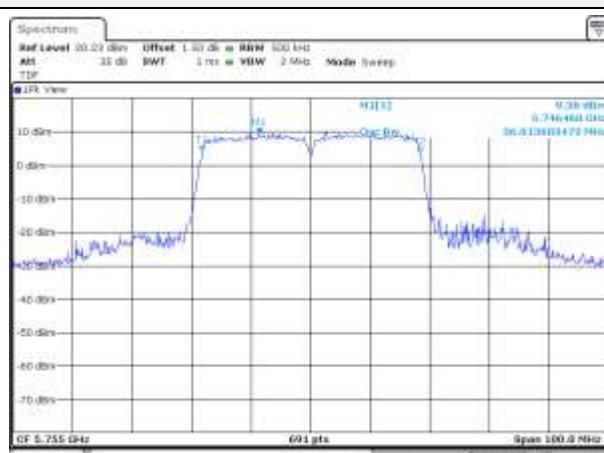
UNII-2C / 802.11n HT40 / 5 590 MHz



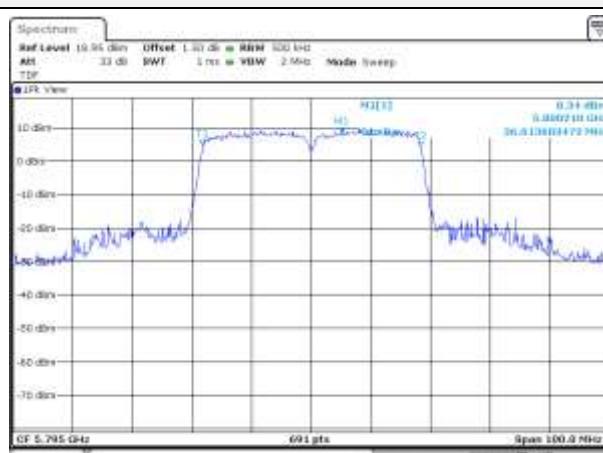
UNII-2C / 802.11n HT40 / 5 710 MHz



UNII-3 / 802.11n HT40 / 5 755 MHz



UNII-3 / 802.11n HT40 / 5 795 MHz



This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

KCTL Inc.

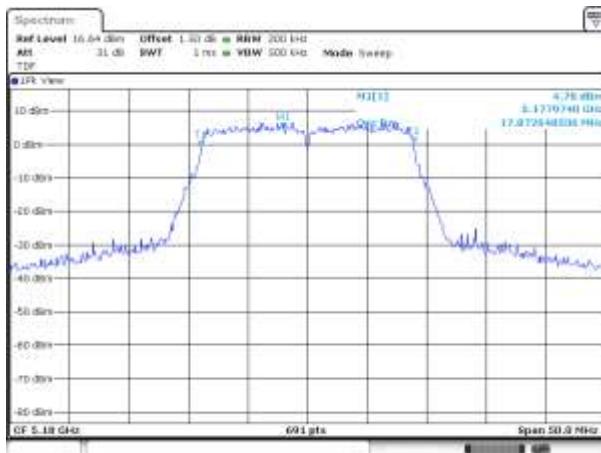
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

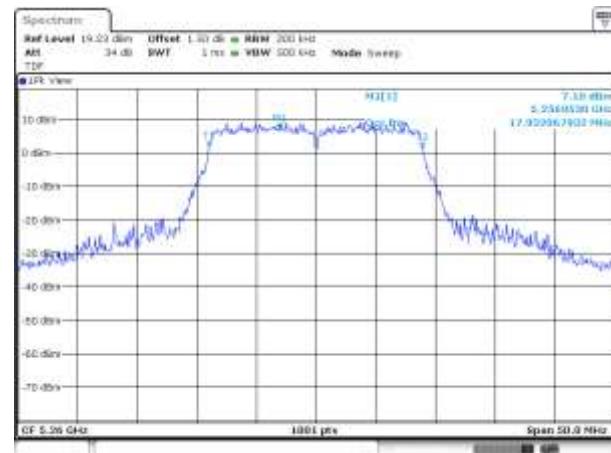
Page (353) of (1046)

KCTL

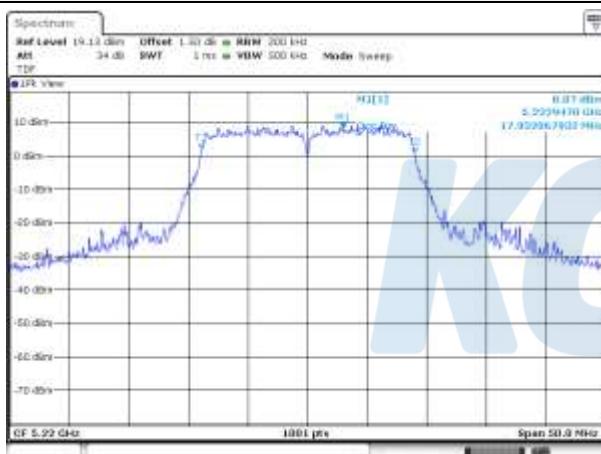
UNII-1 / 802.11ac VHT20 / 5 180 MHz



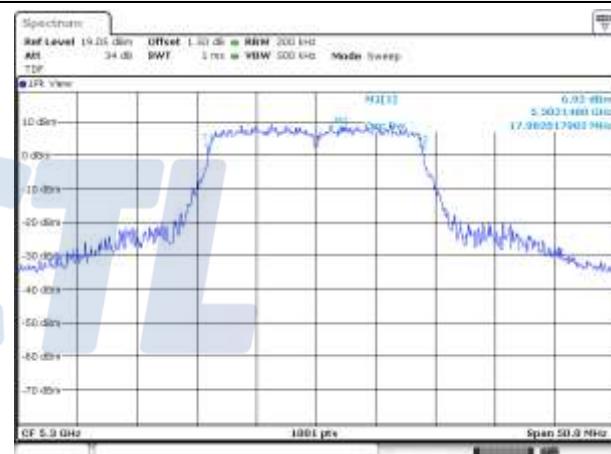
UNII-2A / 802.11ac VHT20 / 5 260 MHz



UNII-1 / 802.11ac VHT20 / 5 220 MHz



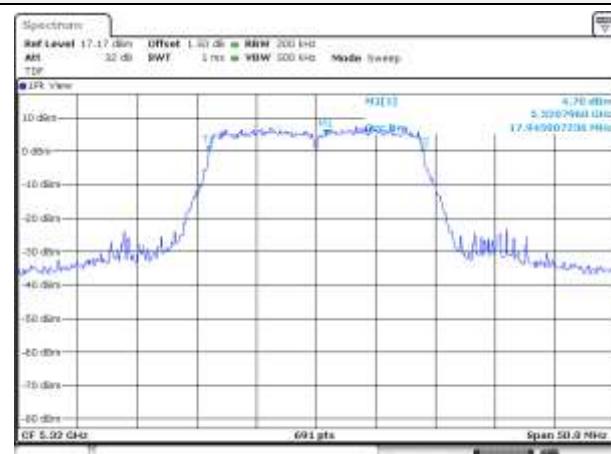
UNII-2A / 802.11ac VHT20 / 5 300 MHz



UNII-1 / 802.11ac VHT20 / 5 240 MHz



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



KCTL Inc.

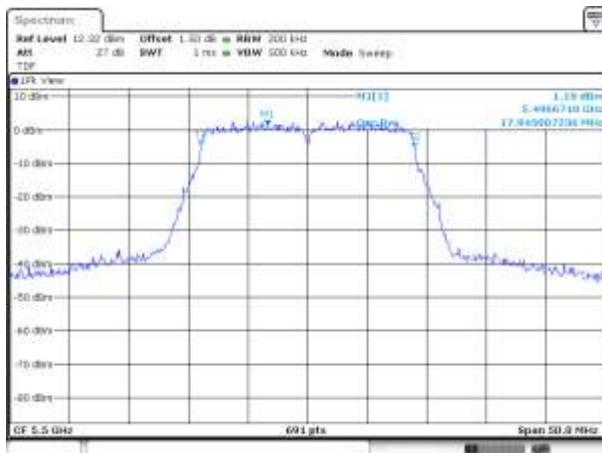
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (354) of (1046)

KCTL

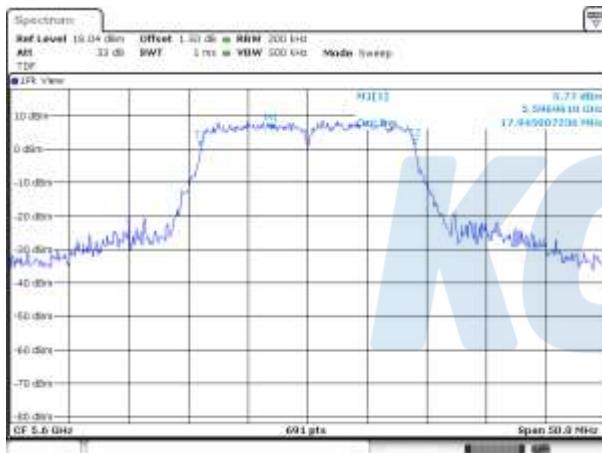
UNII-2C / 802.11ac VHT20 / 5 500 MHz



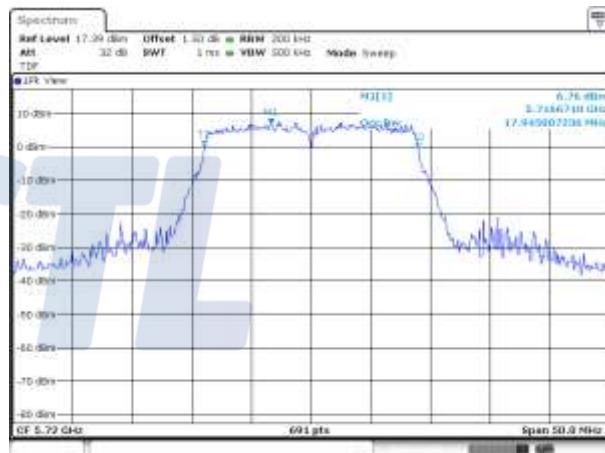
UNII-2C / 802.11ac VHT20 / 5 700 MHz



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



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

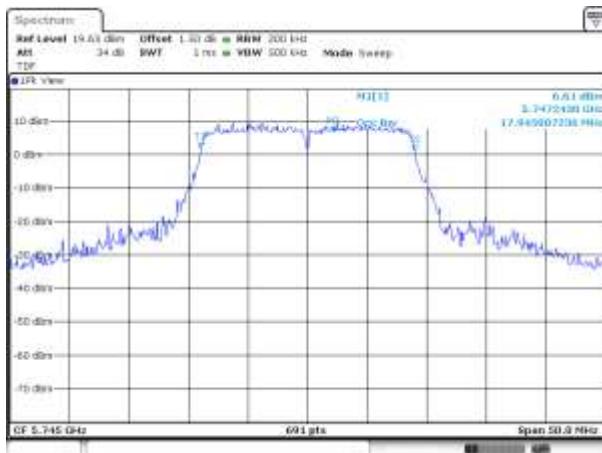
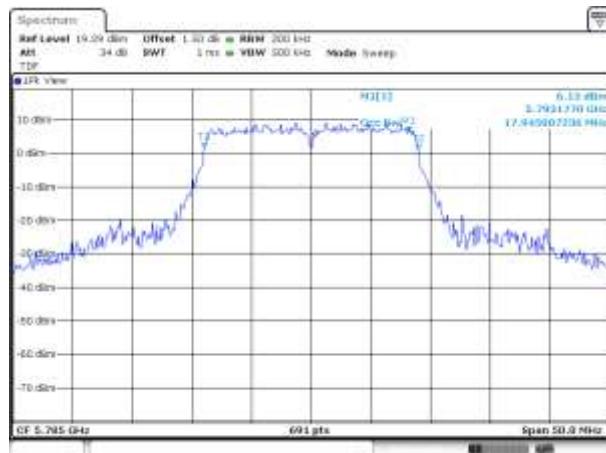
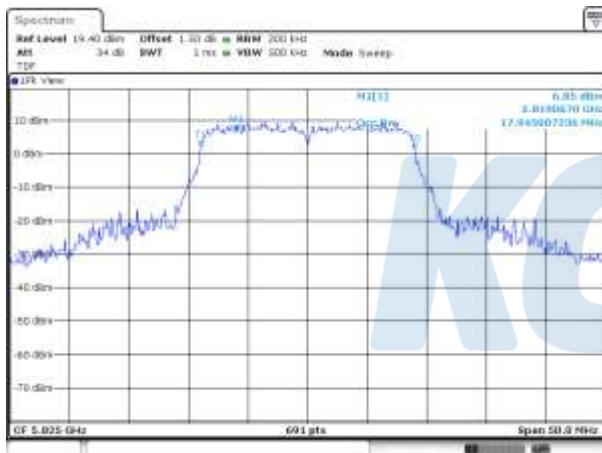


KCTL Inc.

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

Page (355) of (1046)

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**

-

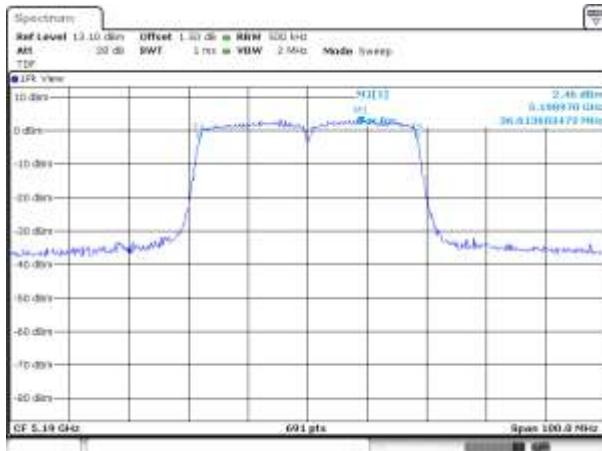
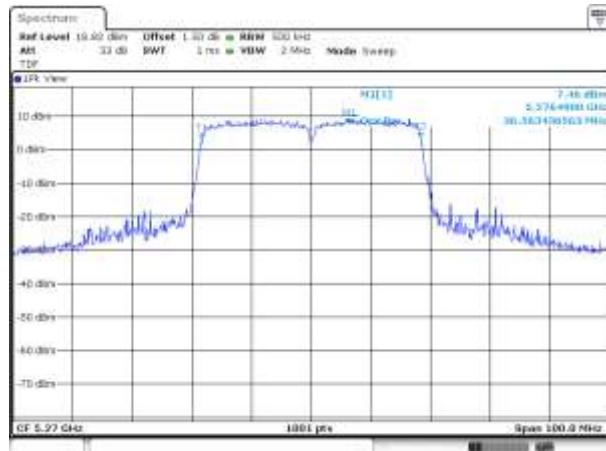
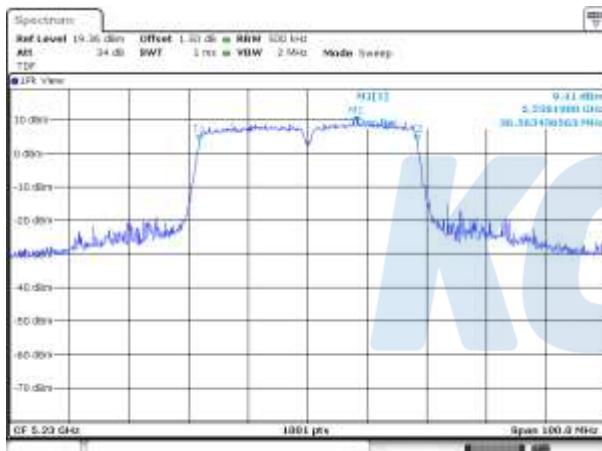
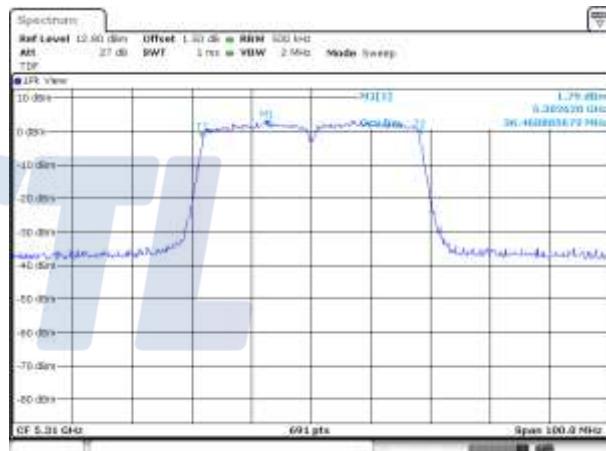
Blank

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

Page (356) of (1046)

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.

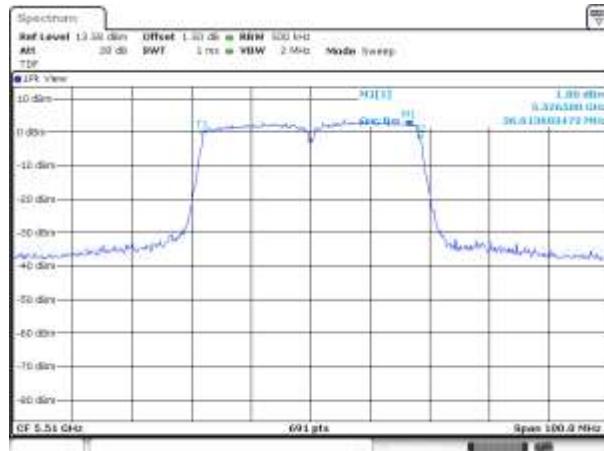
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

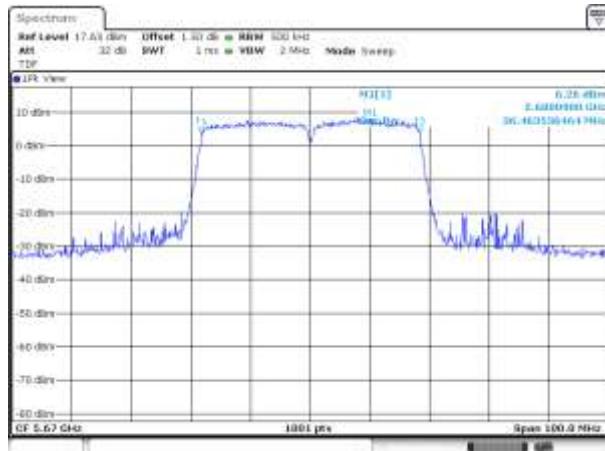
Page (357) of (1046)

KCTL

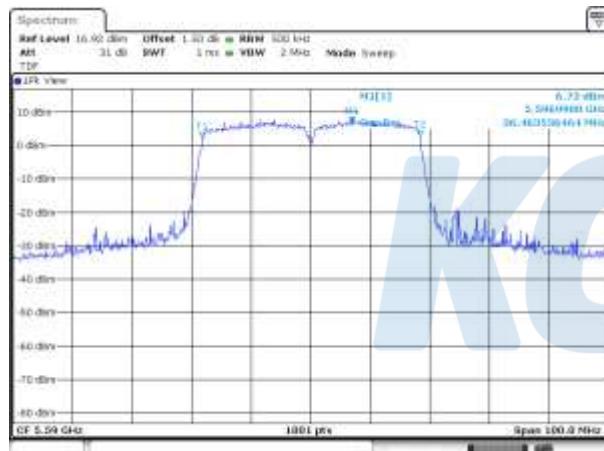
UNII-2C / 802.11ac VHT40 / 5 510 MHz



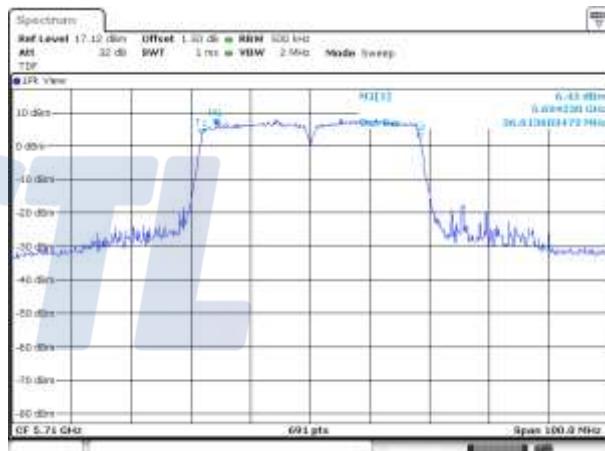
UNII-2C / 802.11ac VHT40 / 5 670 MHz



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



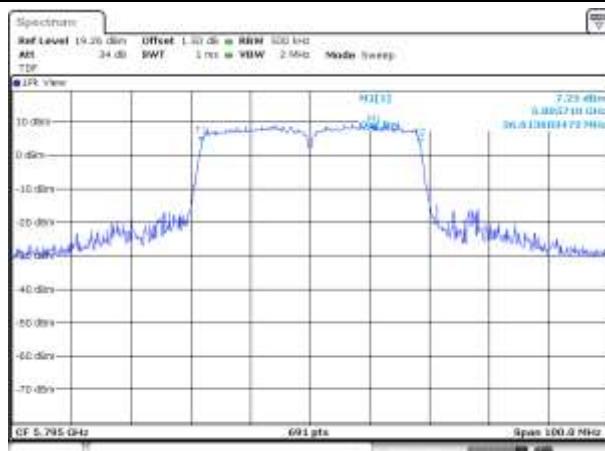
UNII-2C / 802.11ac VHT40 / 5 710 MHz



UNII-3 / 802.11ac VHT40 / 5 755 MHz



UNII-3 / 802.11ac VHT40 / 5 795 MHz



KCTL Inc.

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

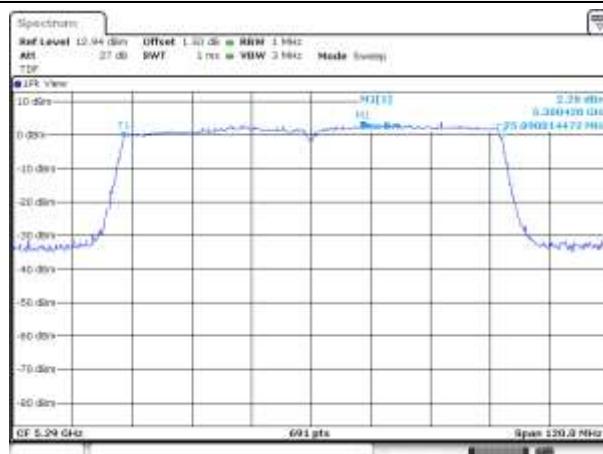
Page (358) of (1046)

KCTL

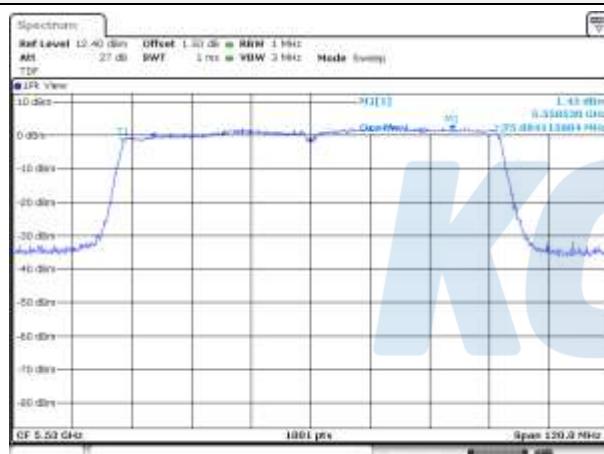
UNII-1 / 802.11ac VHT80 / 5 210 MHz



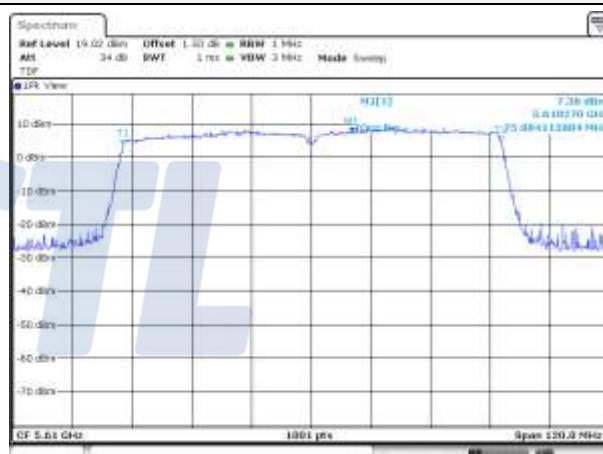
UNII-2A / 802.11ac VHT80 / 5 290 MHz



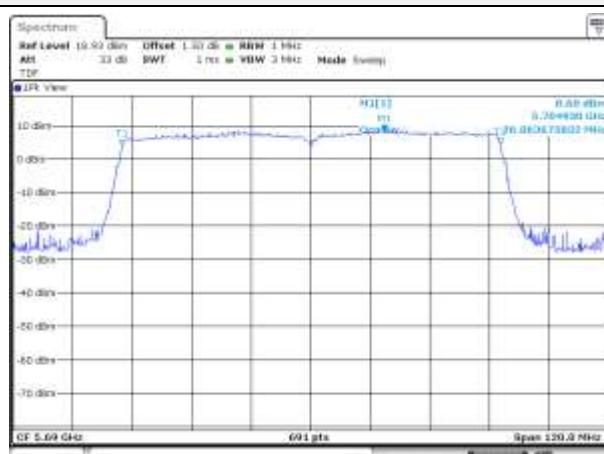
UNII-2C / 802.11ac VHT80 / 5 530 MHz



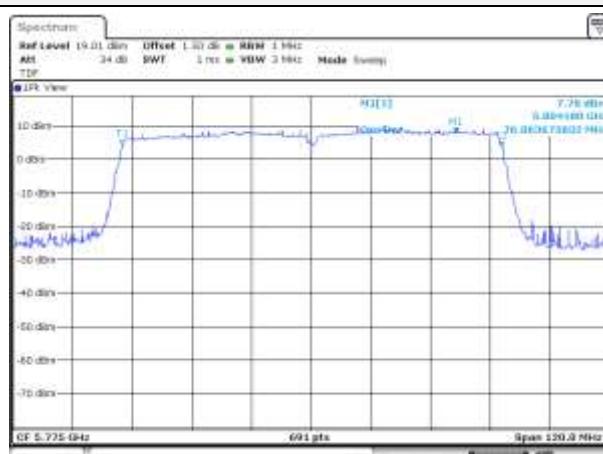
UNII-2C / 802.11ac VHT80 / 5 610 MHz



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

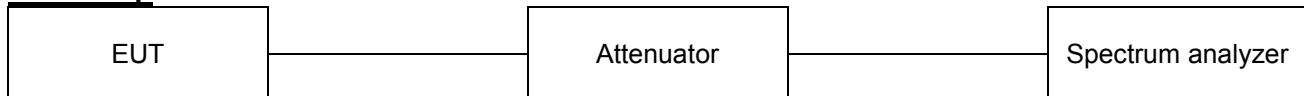


UNII-3 / 802.11ac VHT80 / 5 775 MHz



7.4. 6 dB Bandwidth

Test setup



Limit

Within the 5.725–585 GHz band, the minimum 6 dB bandwidth if U-NII devices shall be at least 500 kHz

Test procedure

KDB 789033 D02 v02r01 - Section C.2

Test settings

◆ 6dB Bandwidth (Minimum Emission Bandwidth for the band 5.725–5.85 GHz)

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test results

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)	Minimum Bandwidth (MHz)
11a	Straddle	5 720	3.13	3.11	3.12	3.13	0.5
	UNII-3	5 745	16.43	16.43	16.43	16.43	
		5 785	16.43	16.43	16.43	16.43	
		5 825	16.38	16.43	16.43	16.43	
11n HT20	Straddle	5 720	3.74	3.74	3.75	3.75	0.5
	UNII-3	5 745	17.68	17.73	17.73	17.73	
		5 785	17.68	17.73	17.73	17.73	
		5 825	17.68	17.73	17.73	17.73	
11n HT40	Straddle	5 710	3.13	3.13	3.13	3.13	0.5
	UNII-3	5 755	36.46	36.47	36.32	36.47	
		5 795	36.46	36.03	36.61	36.32	
11ac VHT20	Straddle	5 720	3.75	3.75	3.75	3.75	0.5
	UNII-3	5 745	17.68	17.73	17.73	17.73	
		5 785	17.68	17.73	17.73	17.73	
		5 825	17.68	17.73	17.73	17.73	
11ac VHT40	Straddle	5 710	3.12	3.13	3.13	3.13	0.5
	UNII-3	5 755	36.46	36.47	36.47	36.47	
		5 795	36.46	36.18	36.18	36.61	
11ac VHT80	Straddle	5 690	3.10	3.12	3.12	3.12	0.5
	UNII-3	5 775	76.00	75.89	75.89	75.89	

KCTL Inc.

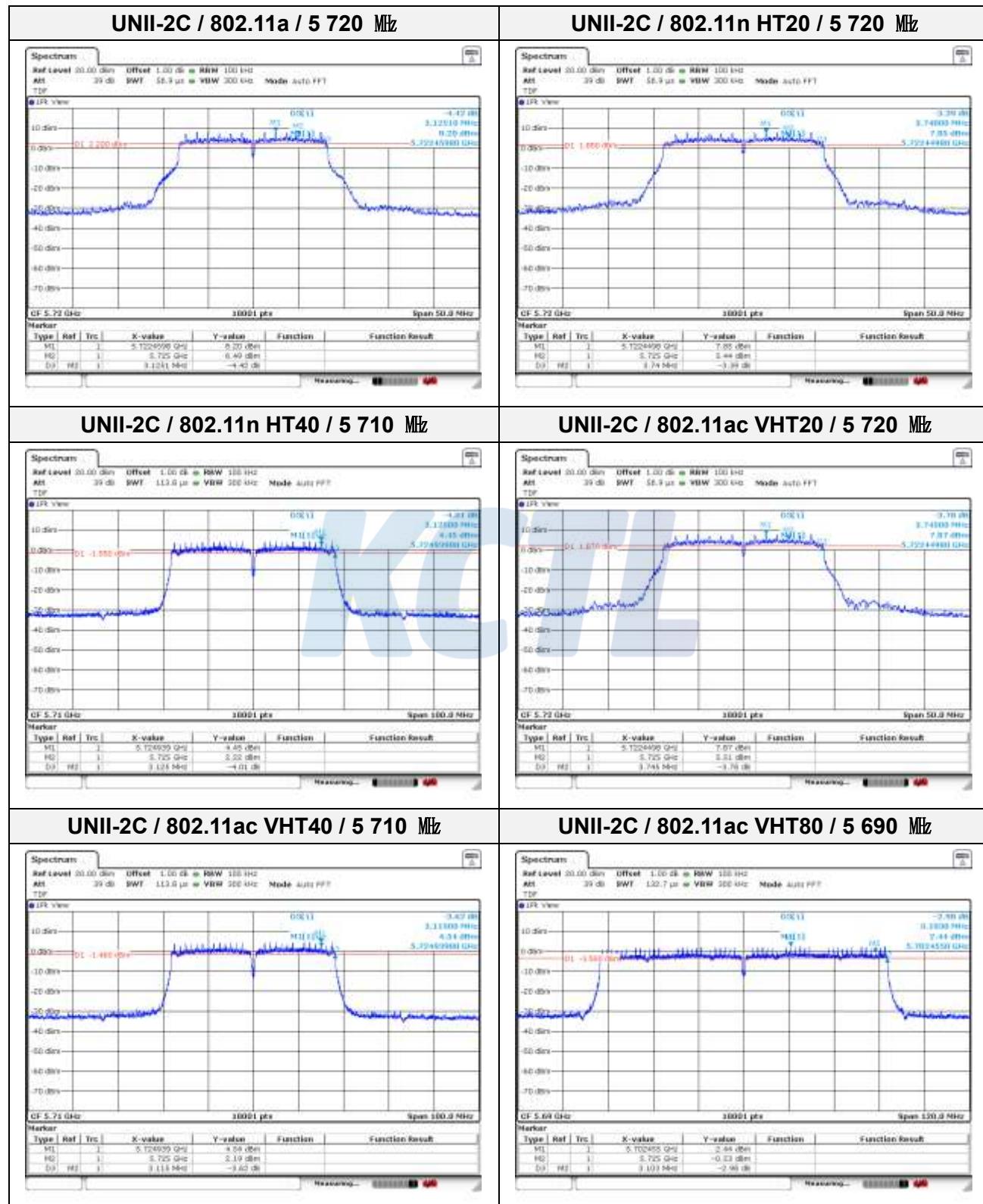
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (361) of (1046)

KCTL

ANT 0



This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

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

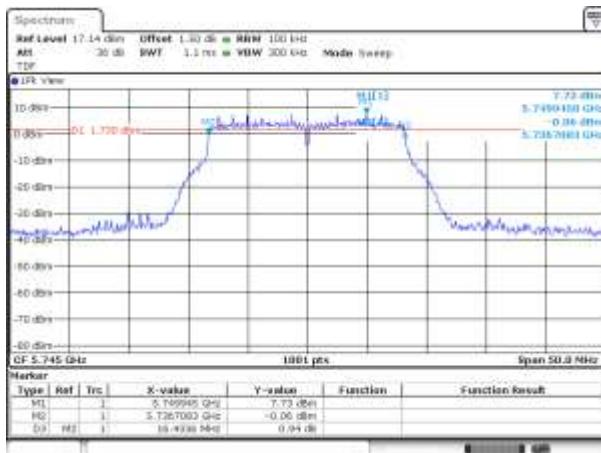
Report No.:

KR20-SRF0030-D

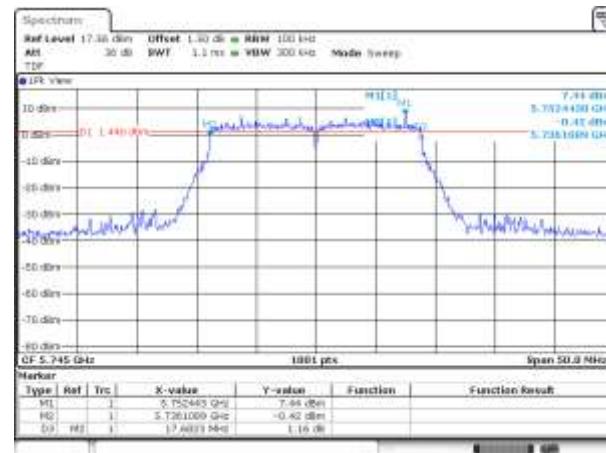
Page (362) of (1046)

KCTL

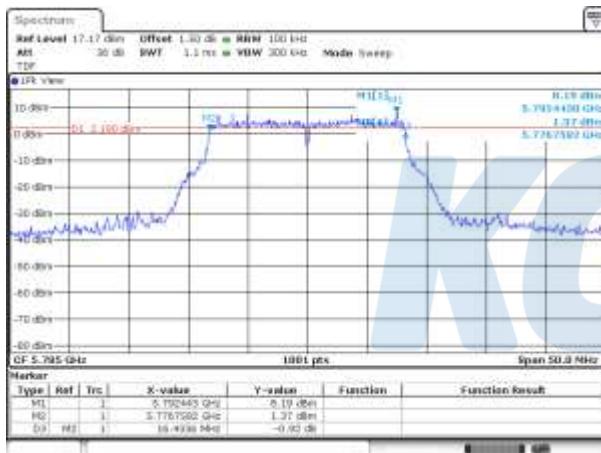
UNII-3 / 802.11a / 5 745 MHz



UNII-3 / 802.11n HT20 / 5 745 MHz



UNII-3 / 802.11a / 5 785 MHz



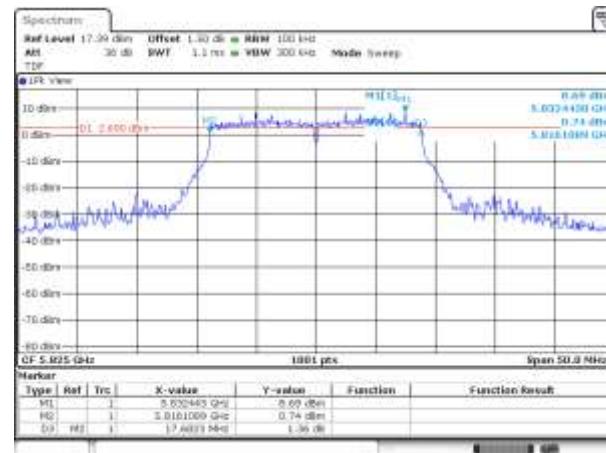
UNII-3 / 802.11n HT20 / 5 785 MHz



UNII-3 / 802.11a / 5 825 MHz



UNII-3 / 802.11n HT20 / 5 825 MHz



This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

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

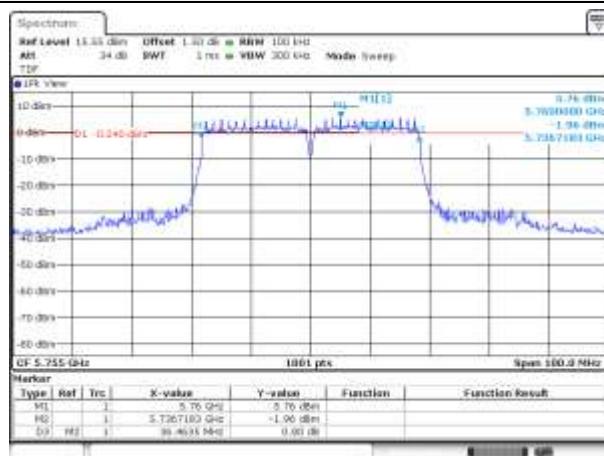
Report No.:

KR20-SRF0030-D

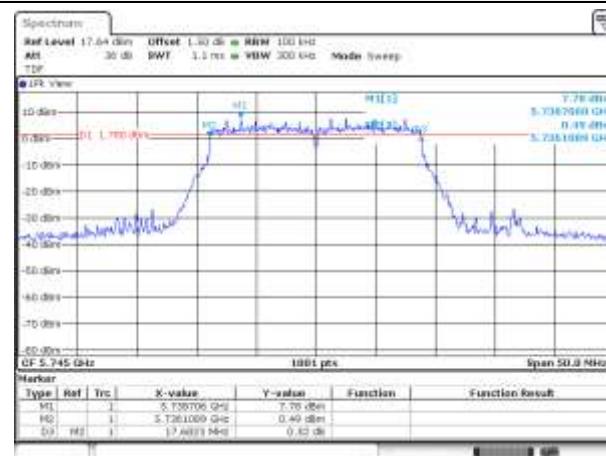
Page (363) of (1046)

KCTL

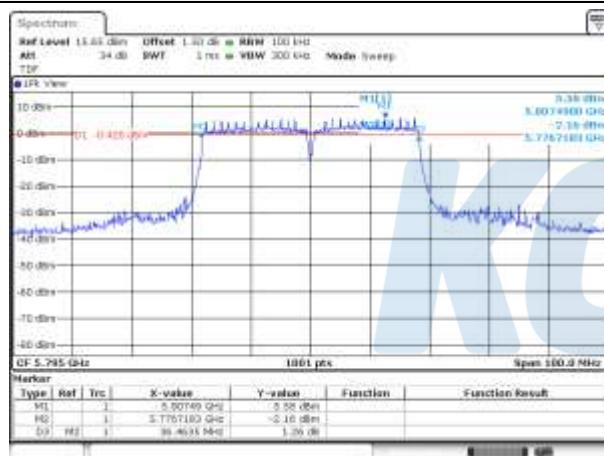
UNII-3 / 802.11n HT40 / 5 755 MHz



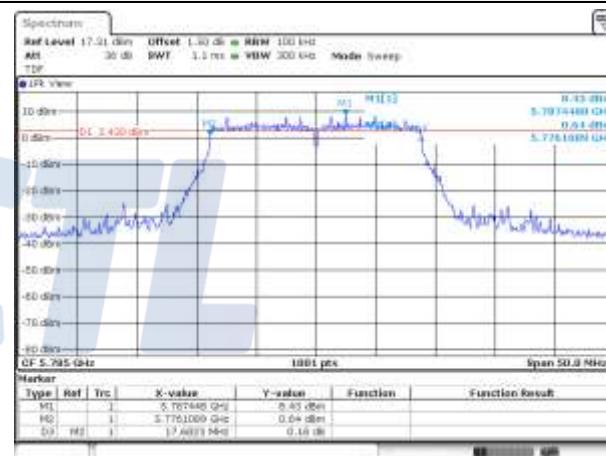
UNII-3 / 802.11ac VHT20 / 5 745 MHz



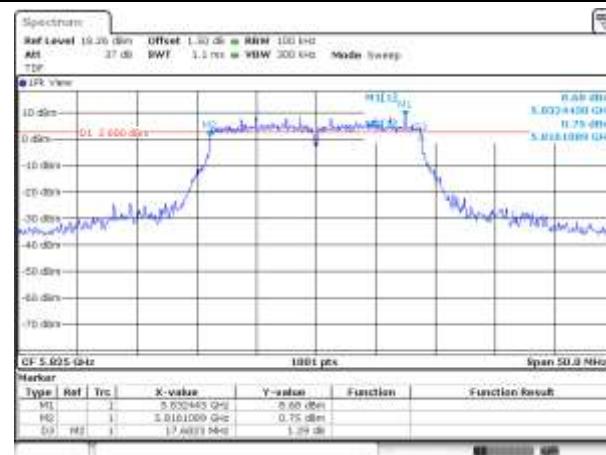
UNII-3 / 802.11n HT40 / 5 795 MHz



UNII-3 / 802.11ac VHT20 / 5 785 MHz



UNII-3 / 802.11ac VHT20 / 5 825 MHz



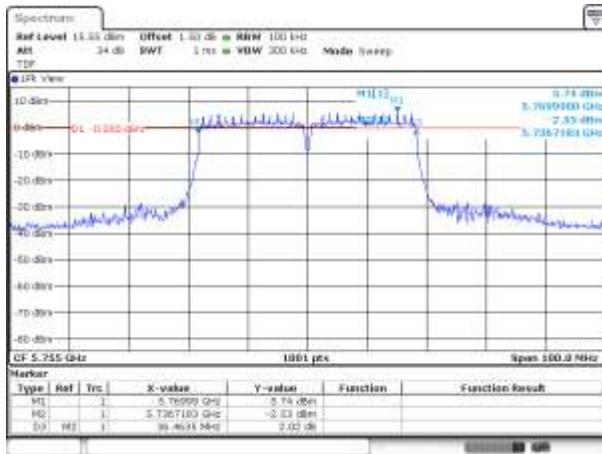
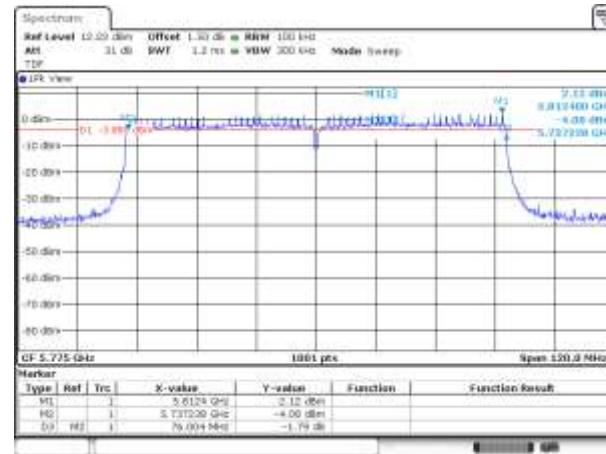
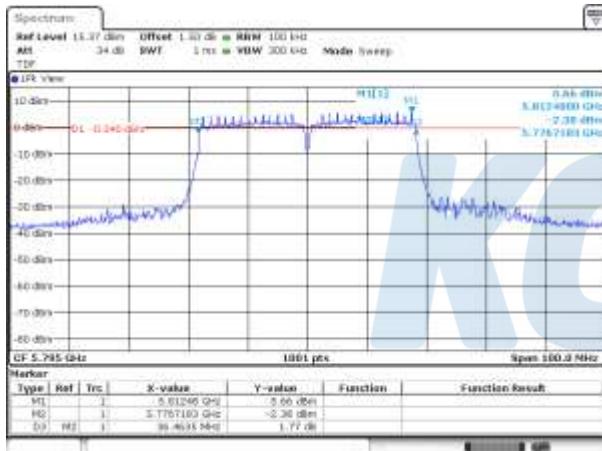
Blank

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

Page (364) of (1046)

KCTL**UNII-3 / 802.11ac VHT40 / 5 755 MHz****UNII-3 / 802.11ac VHT80 / 5 775 MHz****UNII-3 / 802.11ac VHT40 / 5 795 MHz**

Blank

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.:

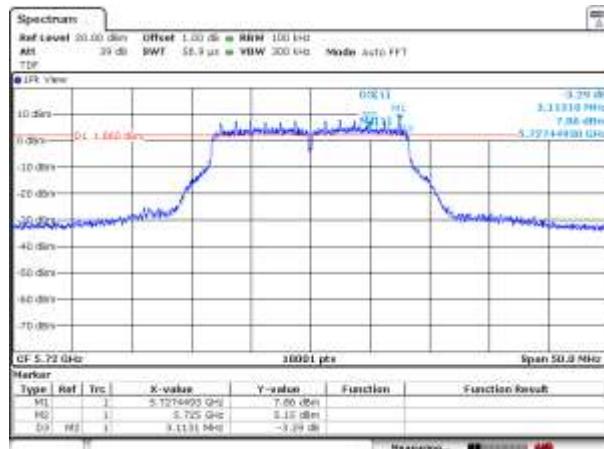
KR20-SRF0030-D

Page (365) of (1046)

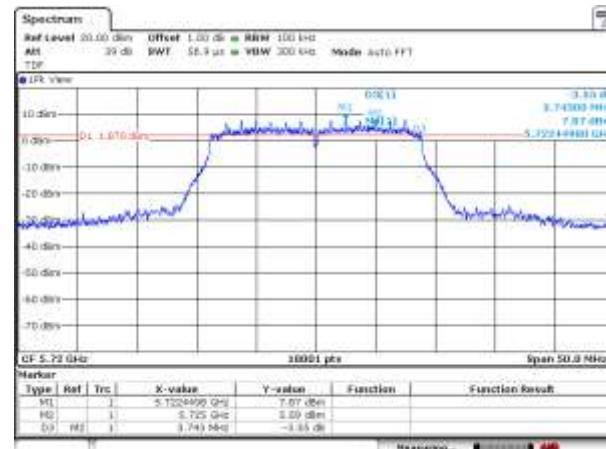
KCTL

ANT 1

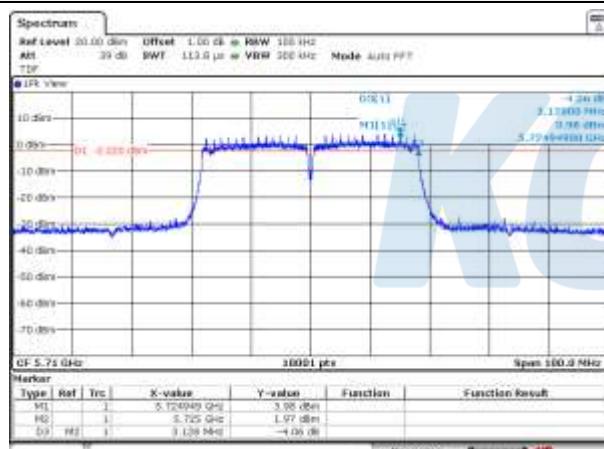
UNII-2C / 802.11a / 5 720 MHz



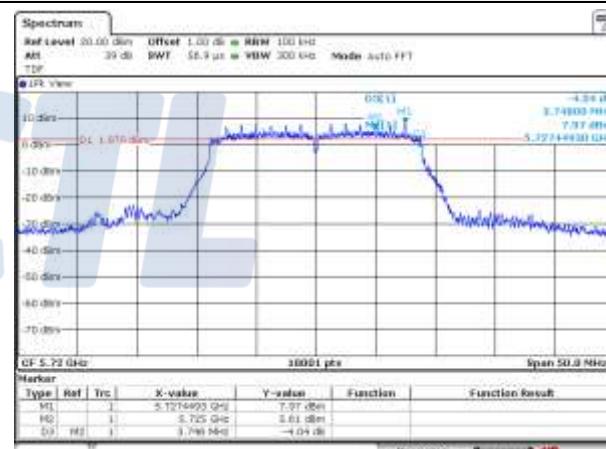
UNII-2C / 802.11n HT20 / 5 720 MHz



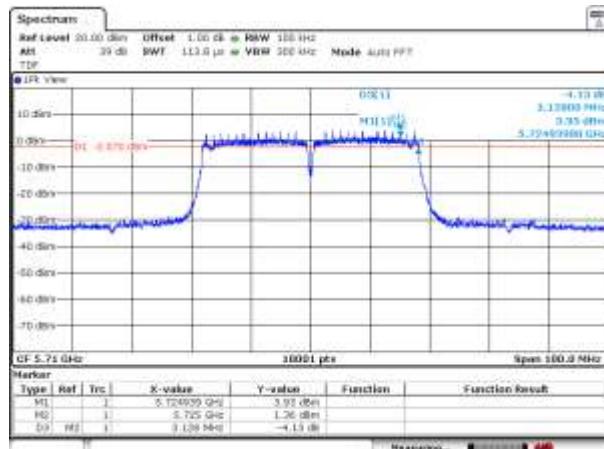
UNII-2C / 802.11n HT40 / 5 710 MHz



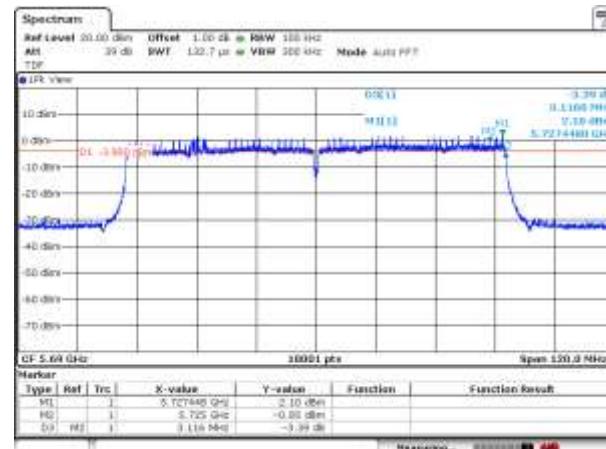
UNII-2C / 802.11ac VHT20 / 5 720 MHz



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



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



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

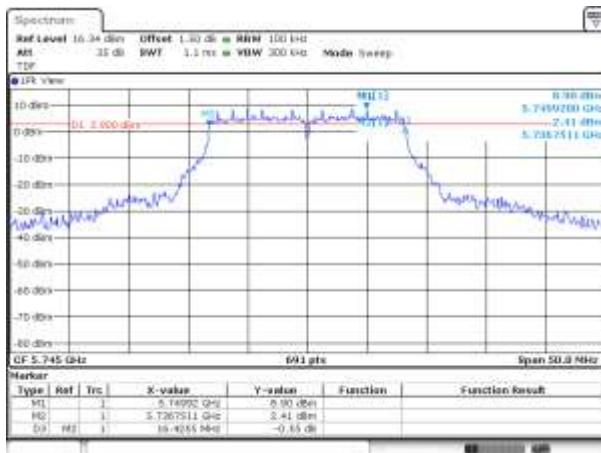
Report No.:

KR20-SRF0030-D

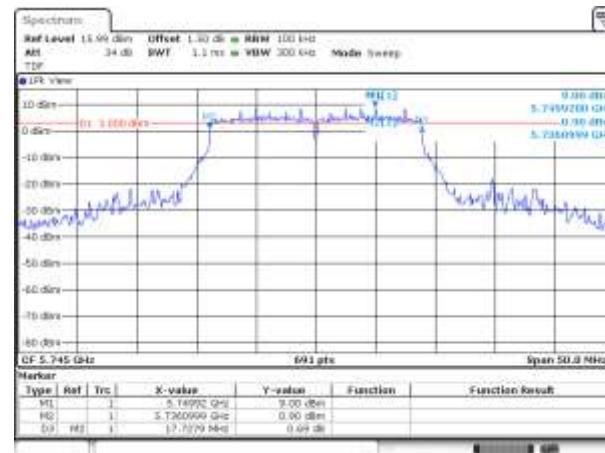
Page (366) of (1046)

KCTL

UNII-3 / 802.11a / 5 745 MHz



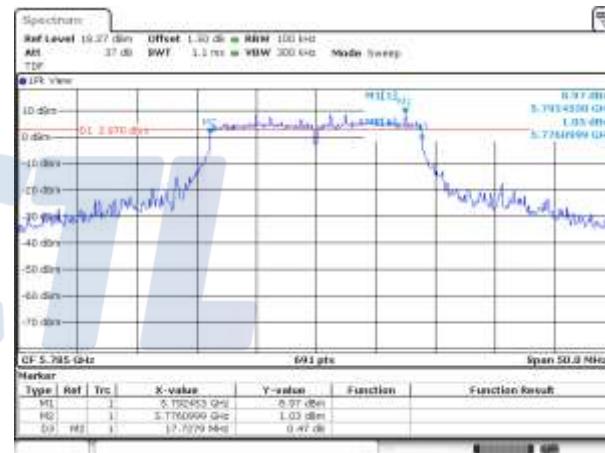
UNII-3 / 802.11n HT20 / 5 745 MHz



UNII-3 / 802.11a / 5 785 MHz



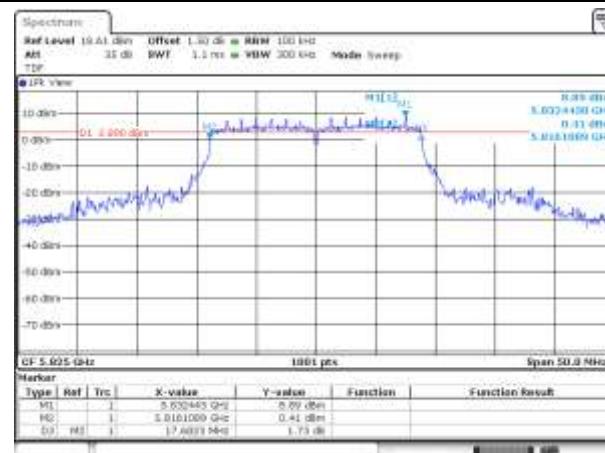
UNII-3 / 802.11n HT20 / 5 785 MHz



UNII-3 / 802.11a / 5 825 MHz



UNII-3 / 802.11n HT20 / 5 825 MHz



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

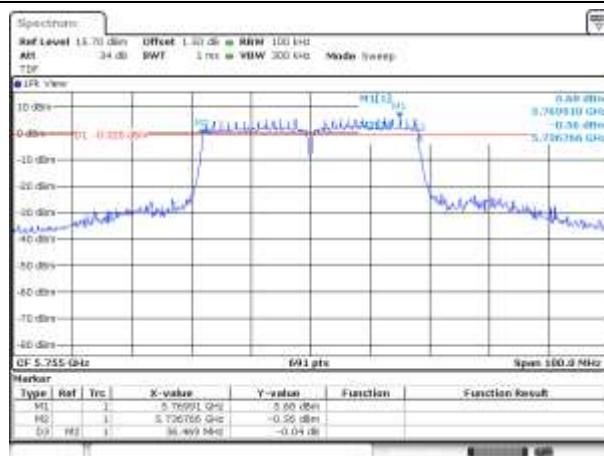
Report No.:

KR20-SRF0030-D

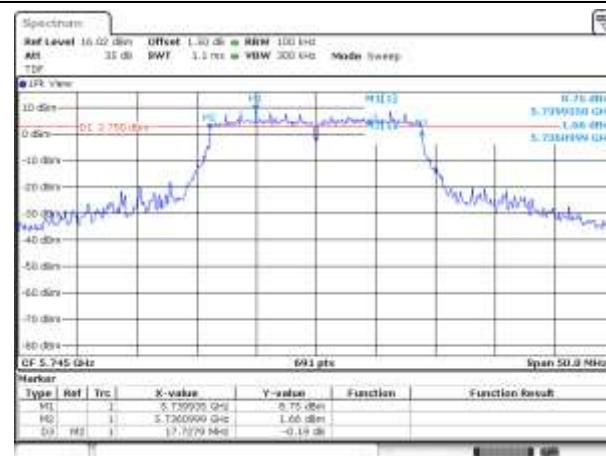
Page (367) of (1046)

KCTL

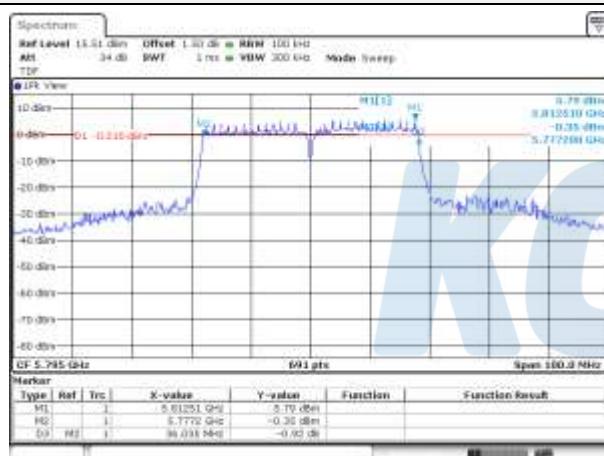
UNII-3 / 802.11n HT40 / 5 755 MHz



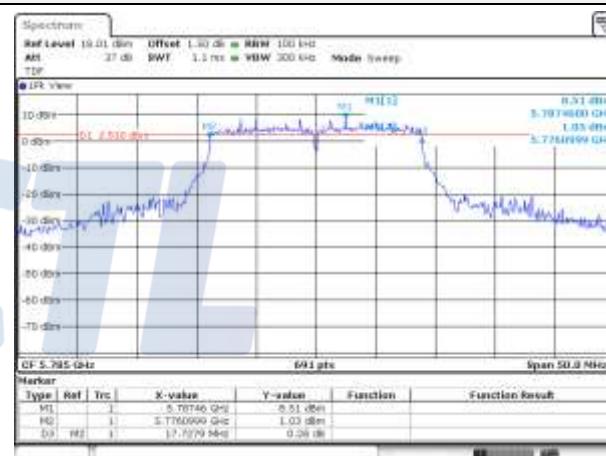
UNII-3 / 802.11ac VHT20 / 5 745 MHz



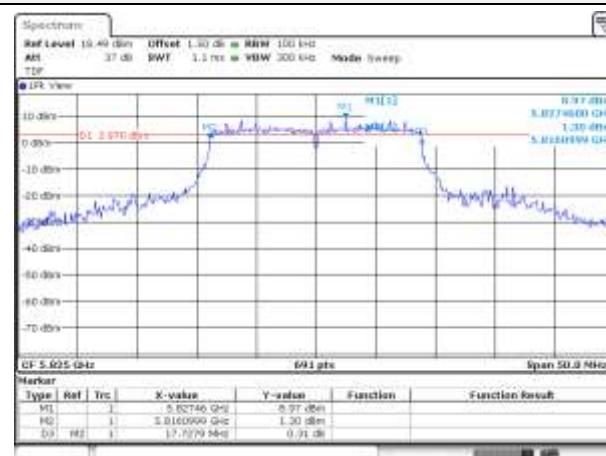
UNII-3 / 802.11n HT40 / 5 795 MHz



UNII-3 / 802.11ac VHT20 / 5 785 MHz



UNII-3 / 802.11ac VHT20 / 5 825 MHz



Blank

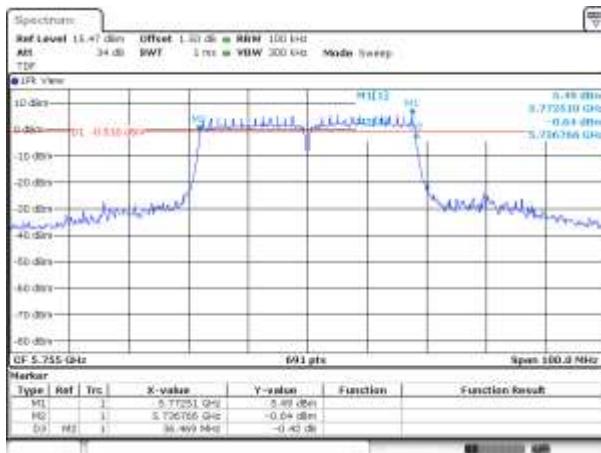
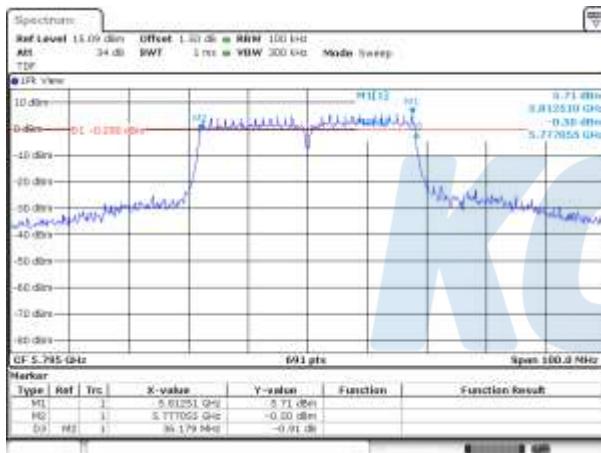
KCTL Inc.

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

Page (368) of (1046)

KCTL

UNII-3 / 802.11ac VHT40 / 5 755 MHz**UNII-3 / 802.11ac VHT80 / 5 775 MHz****UNII-3 / 802.11ac VHT40 / 5 795 MHz**

Blank

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.:

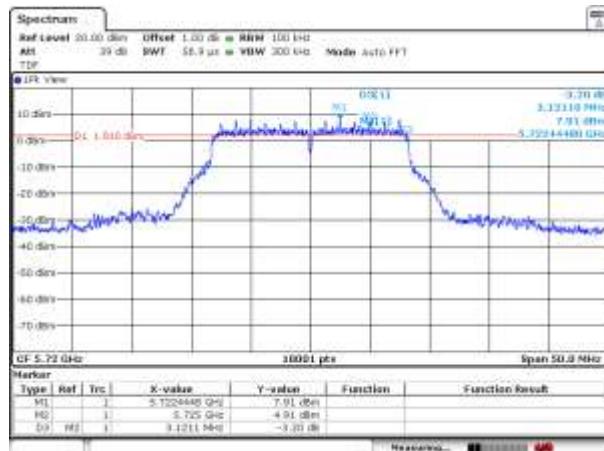
KR20-SRF0030-D

Page (369) of (1046)

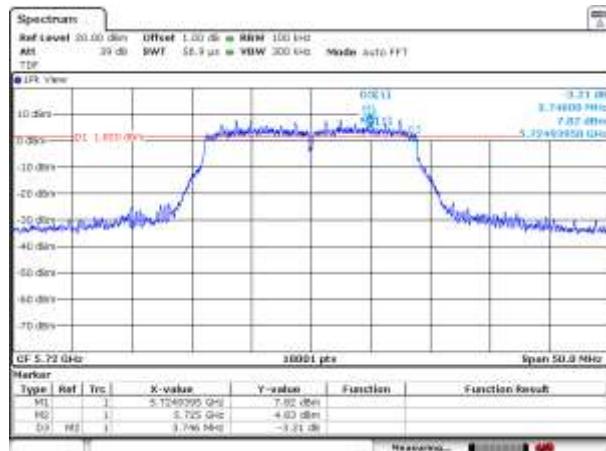
KCTL

ANT 2

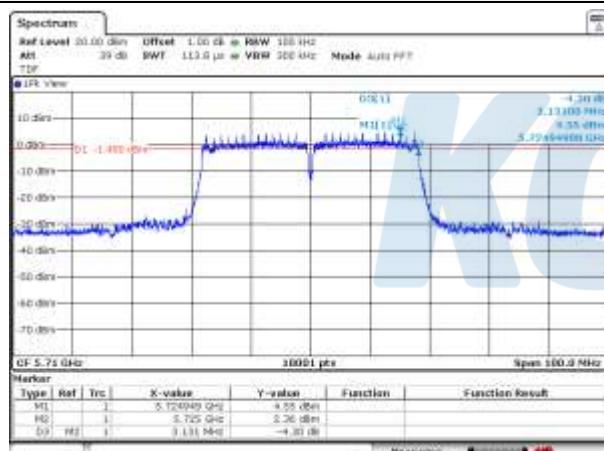
UNII-2C / 802.11a / 5 720 MHz



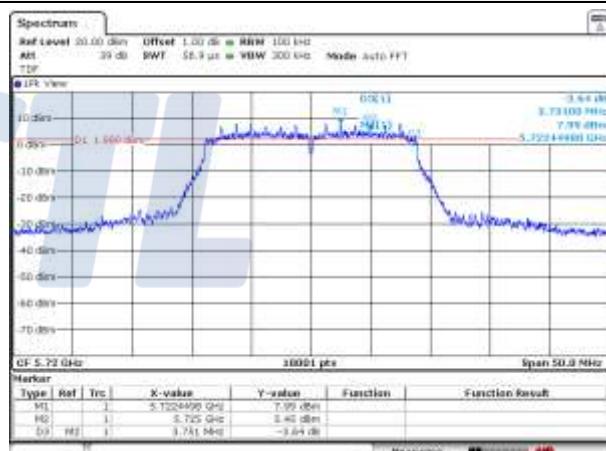
UNII-2C / 802.11n HT20 / 5 720 MHz



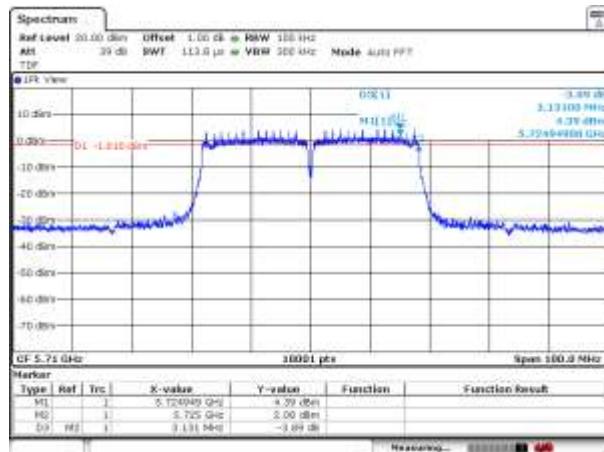
UNII-2C / 802.11n HT40 / 5 710 MHz



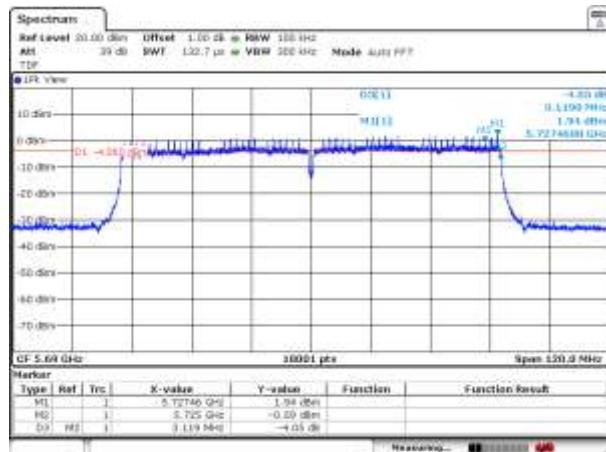
UNII-2C / 802.11ac VHT20 / 5 720 MHz



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



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



KCTL Inc.

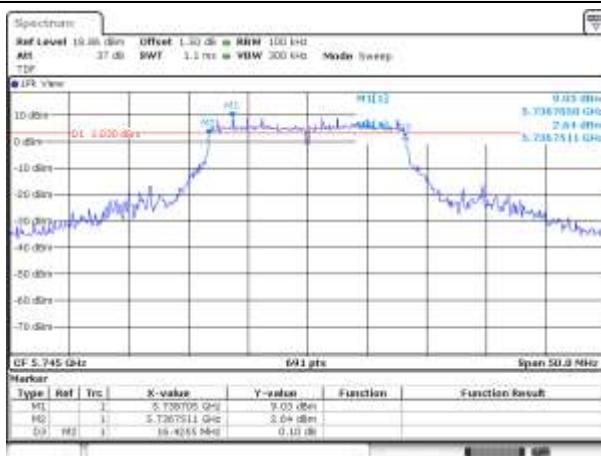
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

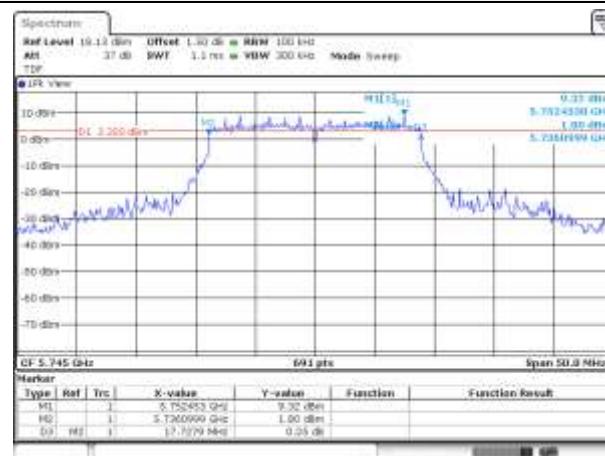
Page (370) of (1046)

KCTL

UNII-3 / 802.11a / 5 745 MHz



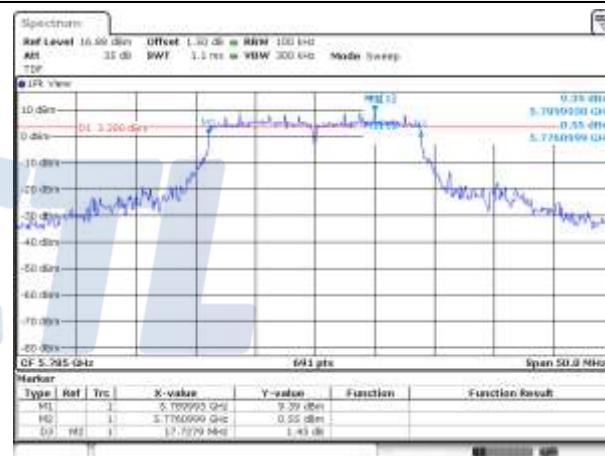
UNII-3 / 802.11n HT20 / 5 745 MHz



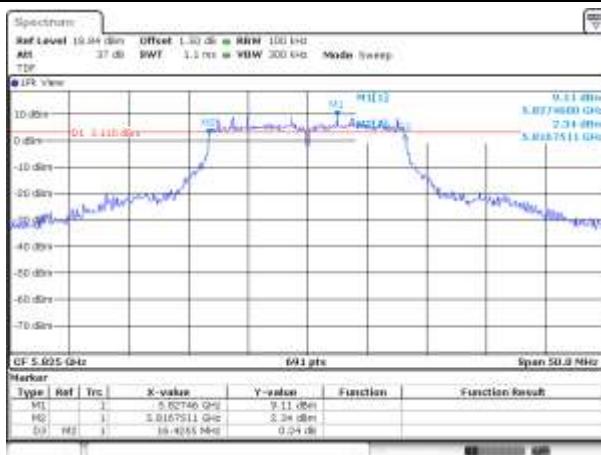
UNII-3 / 802.11a / 5 785 MHz



UNII-3 / 802.11n HT20 / 5 785 MHz



UNII-3 / 802.11a / 5 825 MHz



UNII-3 / 802.11n HT20 / 5 825 MHz

