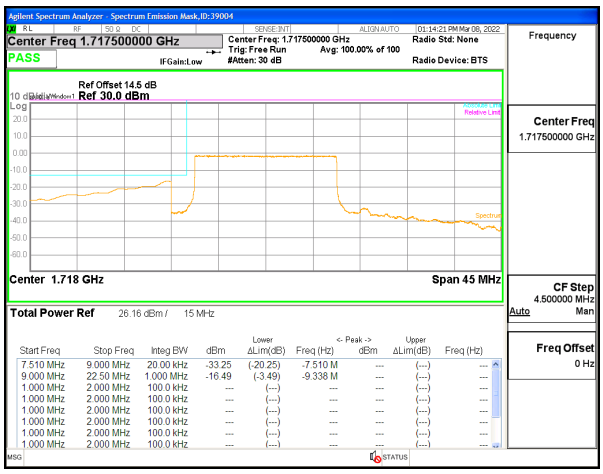
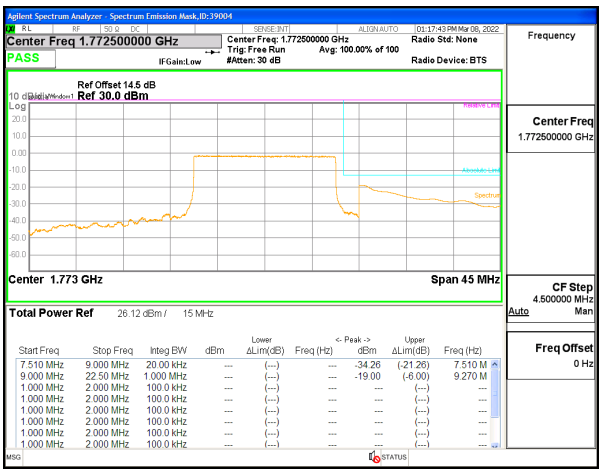
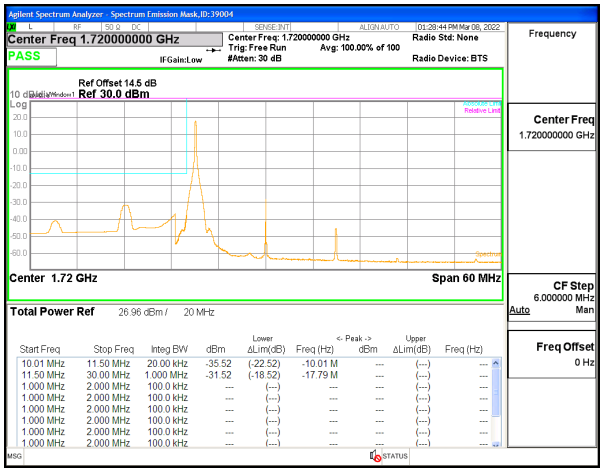


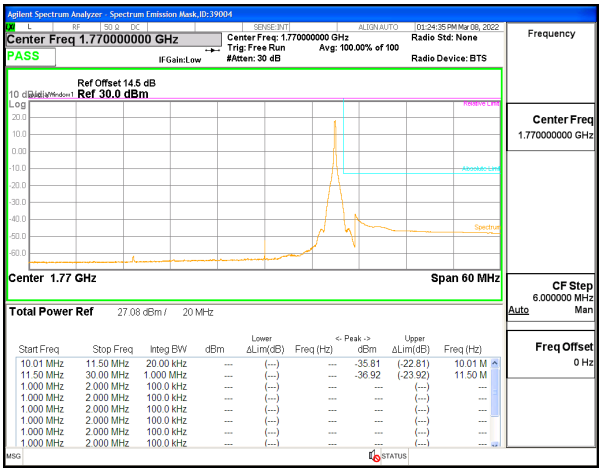
LTE B66 15MHz QPSK Low Channel RB75-0



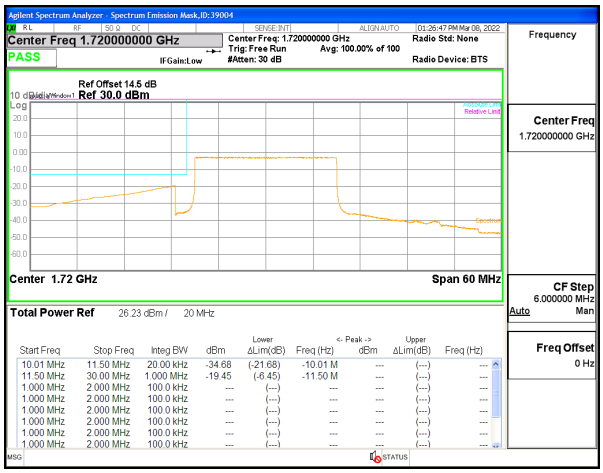
LTE B66 15MHz QPSK High Channel RB75-0



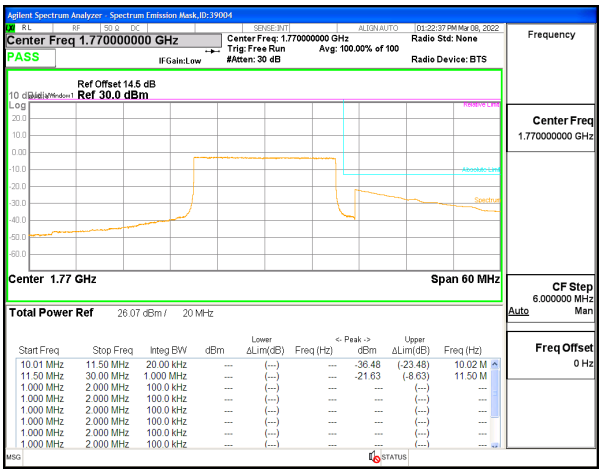
LTE B66 20MHz QPSK Low Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-99



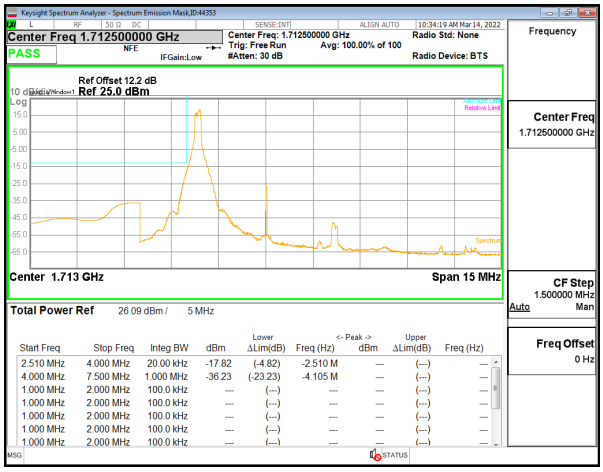
LTE B66 20MHz QPSK Low Channel RB100-0



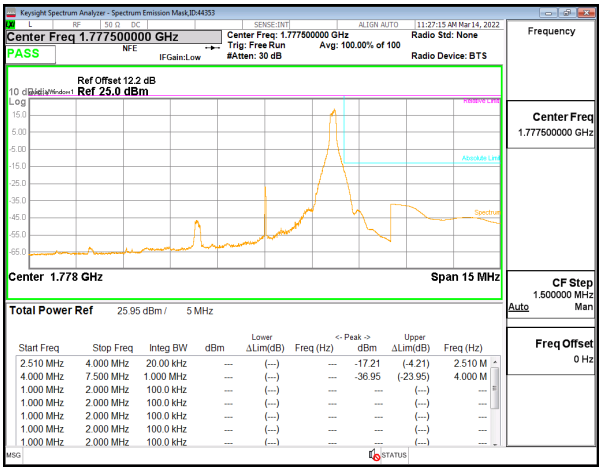
LTE B66 20MHz QPSK High Channel RB100-0

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000
FORM NO: CCSUP4031B
FAX: (510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

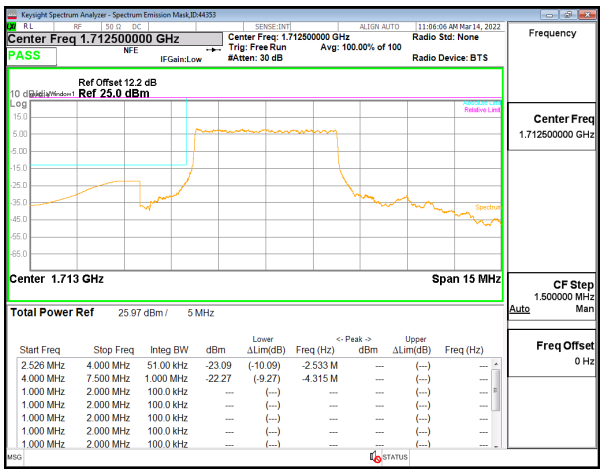
5G NR n66 EMISSION MASK



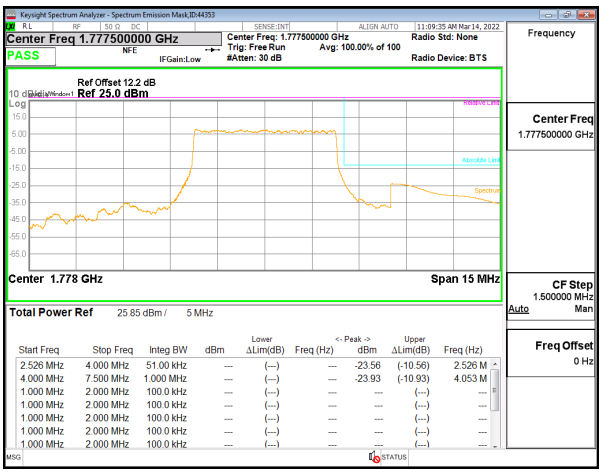
5G NR n66 5MHz BPSK Low Channel RB1-0



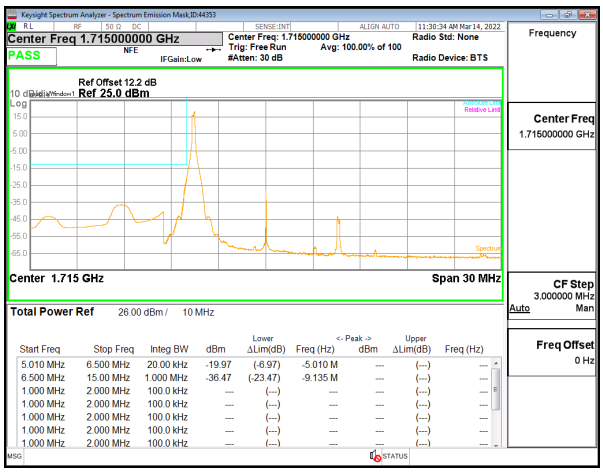
5G NR n66 5MHz BPSK High Channel RB1-24



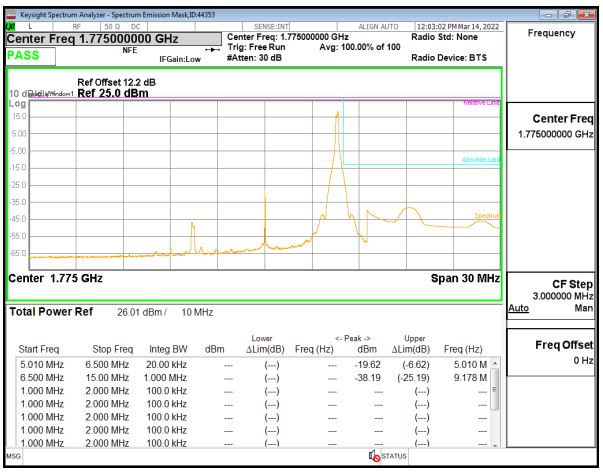
5G NR n66 5MHz BPSK Low Channel RB25-0



5G NR n66 5MHz BPSK High Channel RB25-0

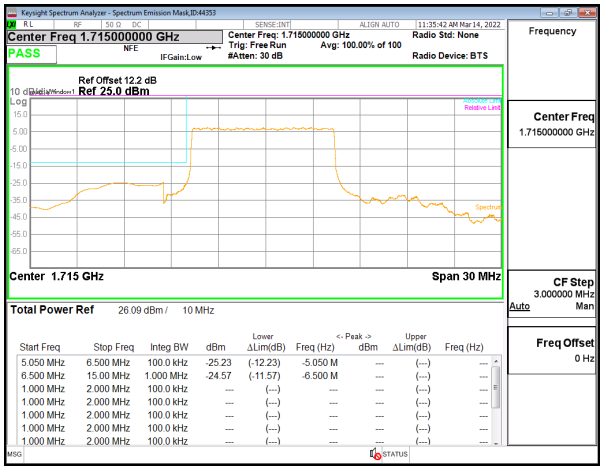


5G NR n66 10MHz BPSK Low Channel RB1-0

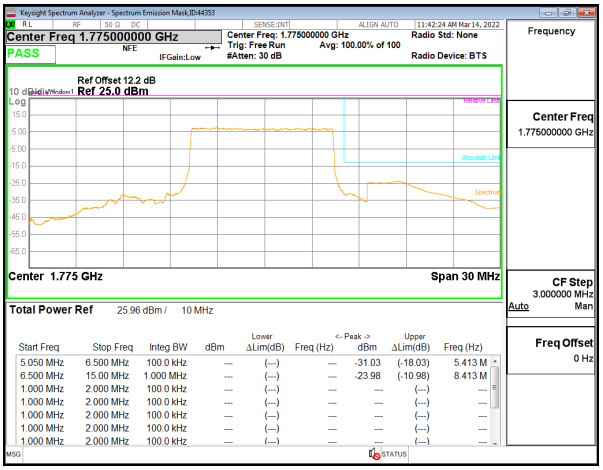


5G NR n66 10MHz BPSK High Channel RB1-51

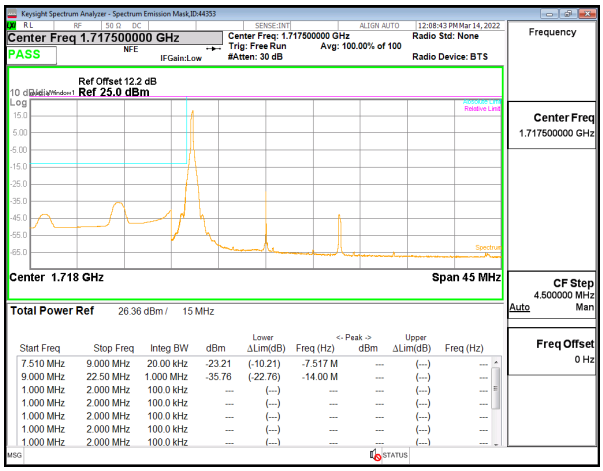
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000
FORM NO: CCSUP4031B
FAX: (510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



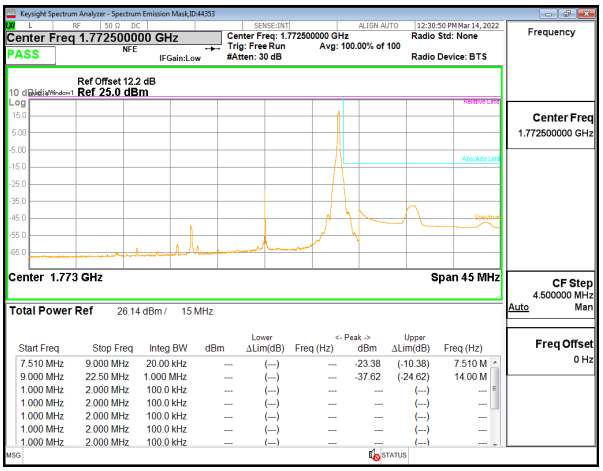
5G NR n66 10MHz BPSK Low Channel RB50-0



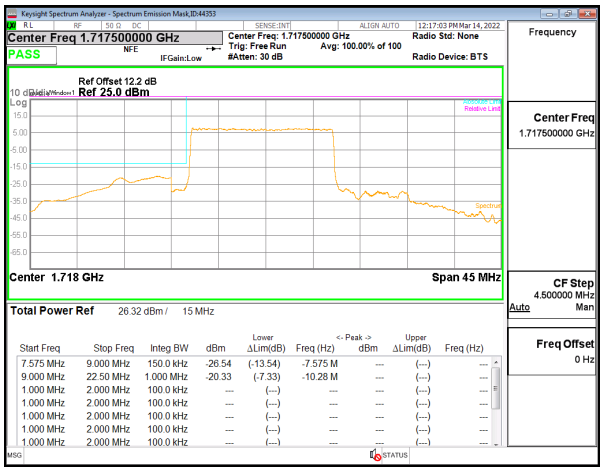
5G NR n66 10MHz BPSK High Channel RB50-0



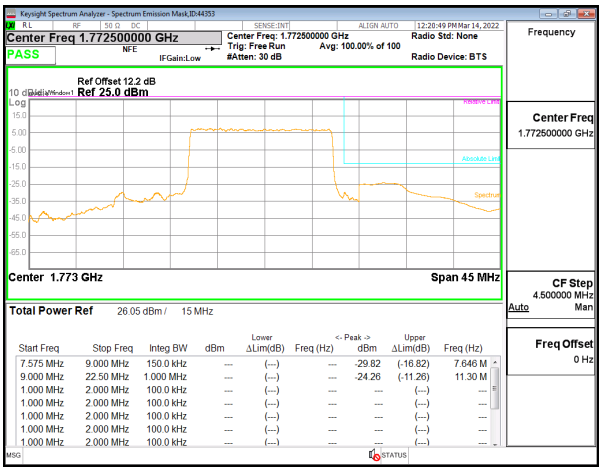
5G NR n66 15MHz BPSK Low Channel RB1-0



5G NR n66 15MHz BPSK High Channel RB1-78

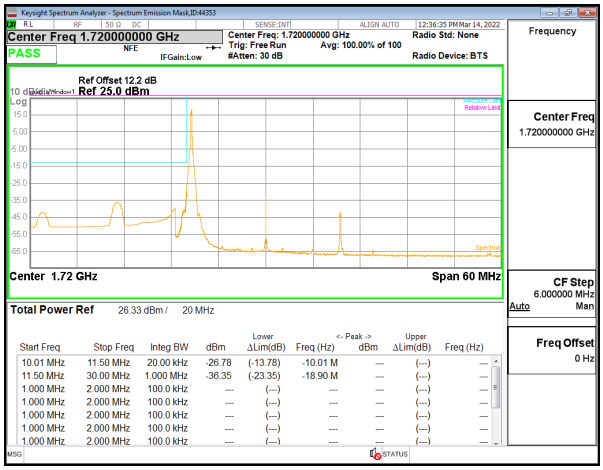


5G NR n66 15MHz BPSK Low Channel RB75-0

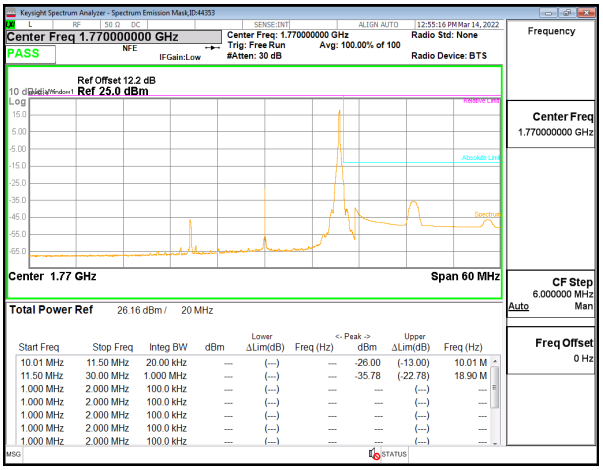


5G NR n66 15MHz BPSK High Channel RB75-0

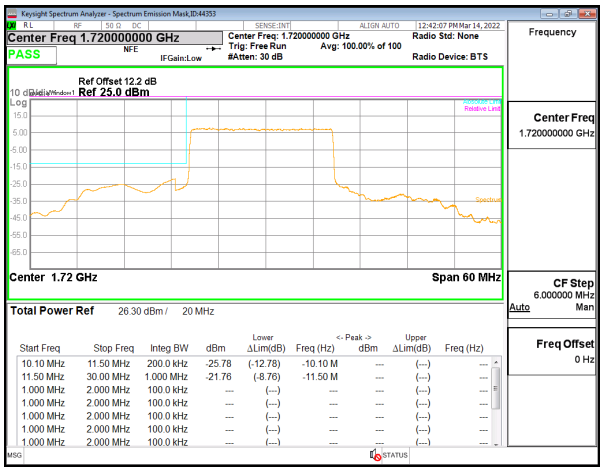
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



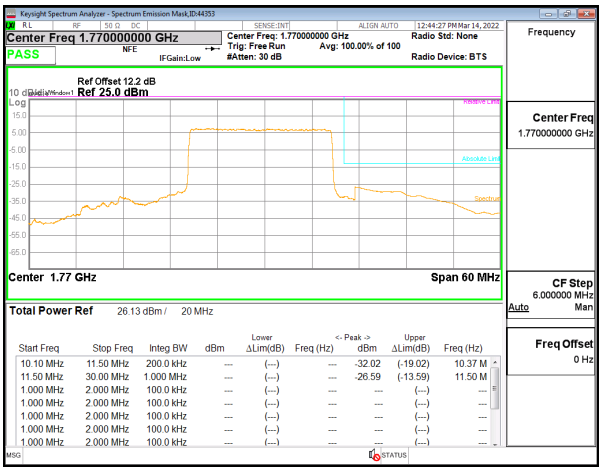
5G NR n66 20MHz BPSK Low Channel RB1-0



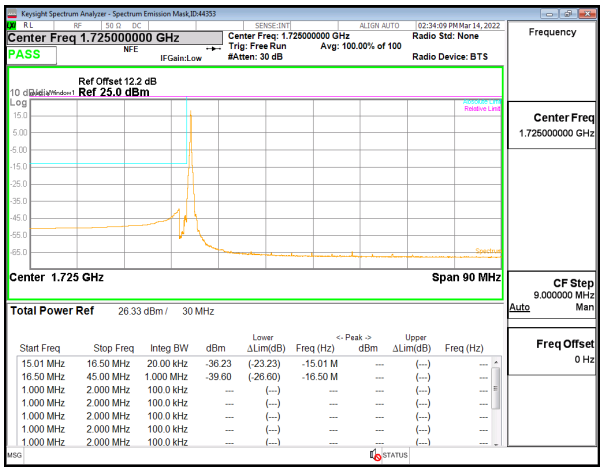
5G NR n66 20MHz BPSK High Channel RB1-105



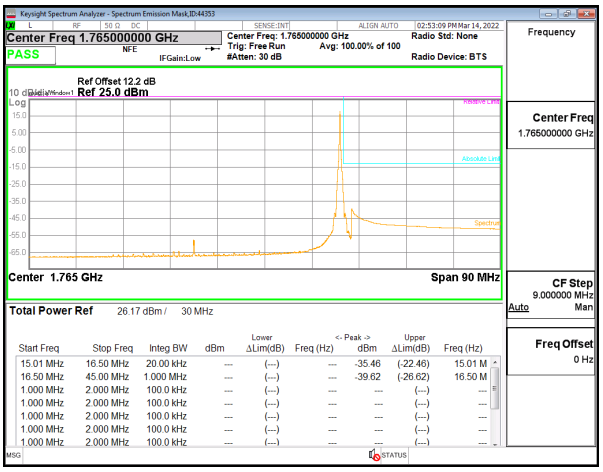
5G NR n66 20MHz BPSK Low Channel RB100-0



5G NR n66 20MHz BPSK High Channel RB100-0



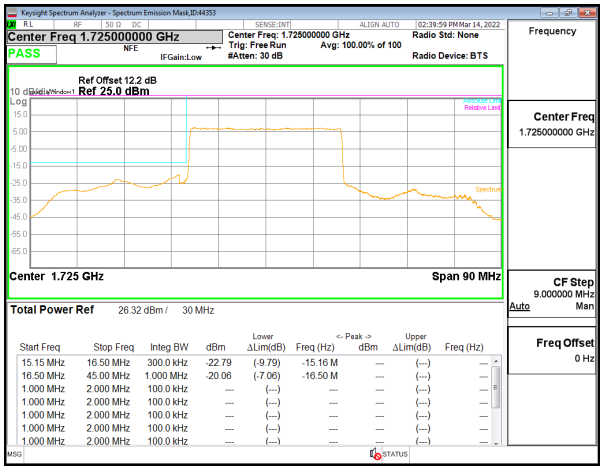
5G NR n66 30MHz BPSK Low Channel RB1-0



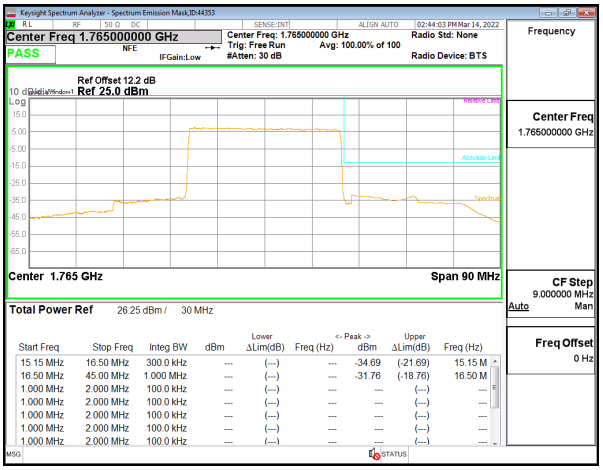
5G NR n66 30MHz BPSK High Channel RB1-159

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000

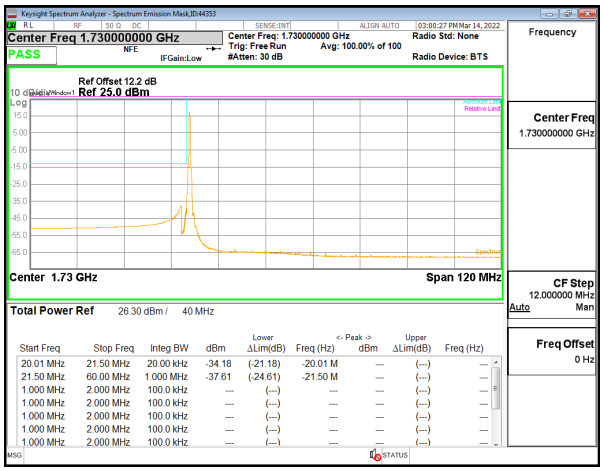
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



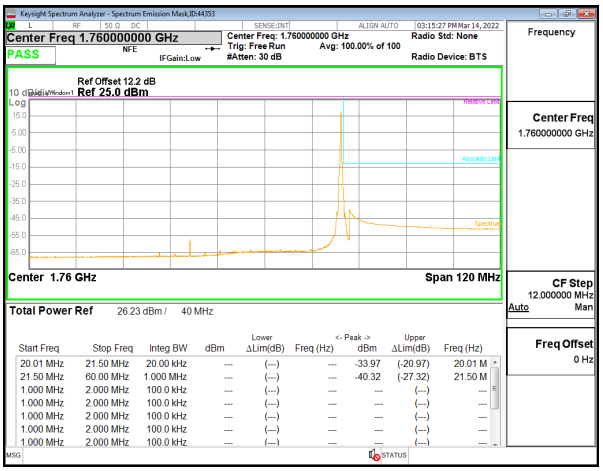
5G NR n66 30MHz BPSK Low Channel RB160-0



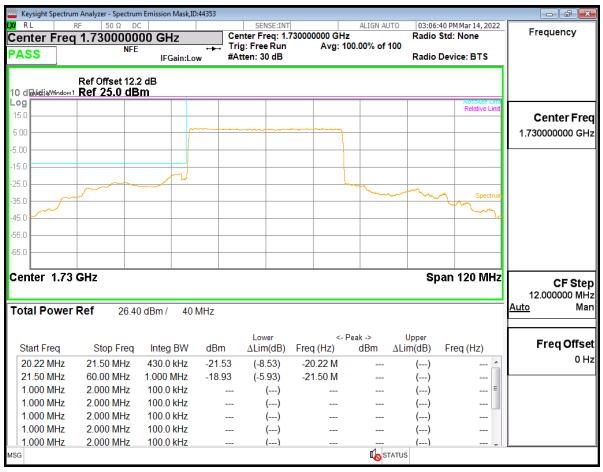
5G NR n66 30MHz BPSK High Channel RB160-0



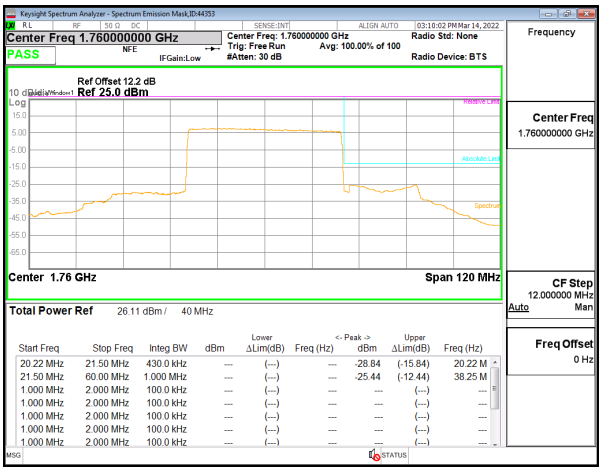
5G NR n66 40MHz BPSK Low Channel RB1-0



5G NR n66 40MHz BPSK High Channel RB1-215



5G NR n66 40MHz BPSK Low Channel RB216-0



5G NR n66 40MHz BPSK High Channel RB216-0

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

9.2.13. 5G NR n70 EMISSION MASK

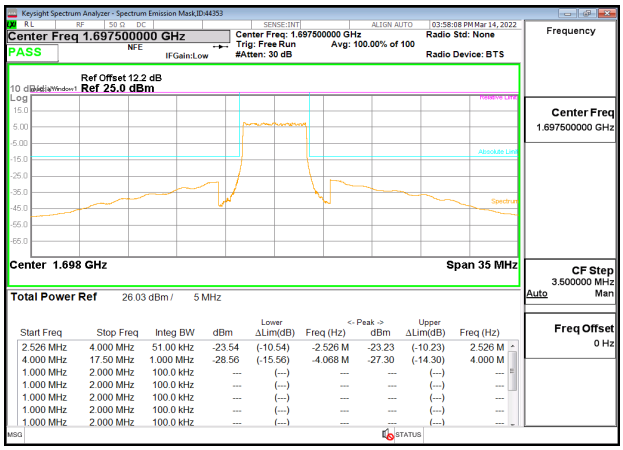
LIMITS

FCC: §27.53(h)

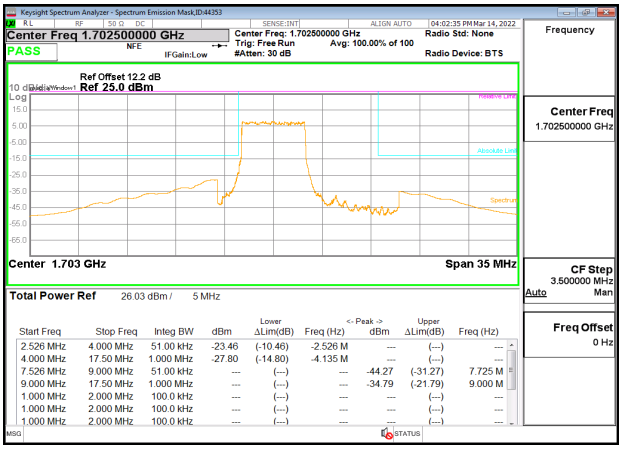
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

NOTE: 20MHz and 25MHz Bandwidth Upper Block Bandedge is covered by 5G NR n66 20MHz and 25MHz Bandwidth.

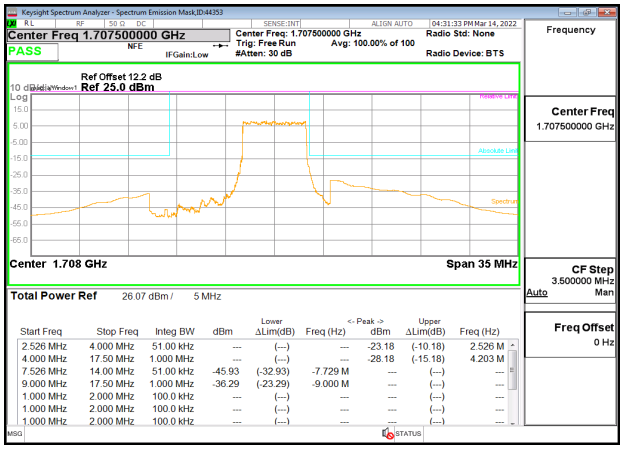
5G NR n70 EMISSION MASK



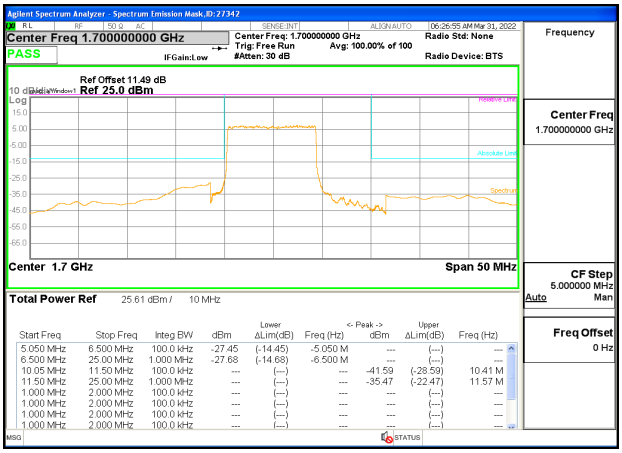
5G NR n70 5MHz BPSK Low Channel (Lower Block) RB25-0



5G NR n70 5MHz BPSK Middle Channel (Upper Block Low End) RB25-0

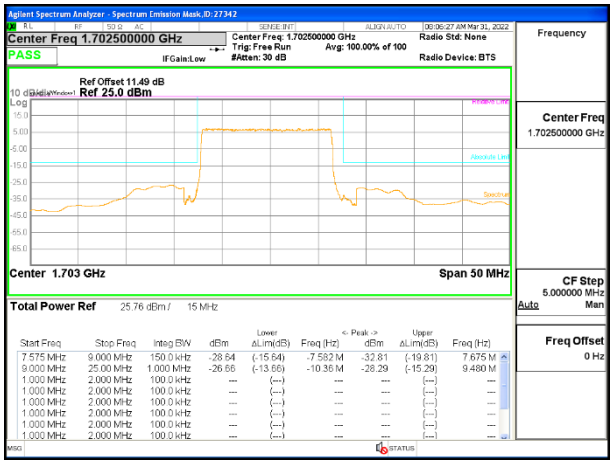


5G NR n70 5MHz BPSK High Channel (Upper Block High End) RB25-0

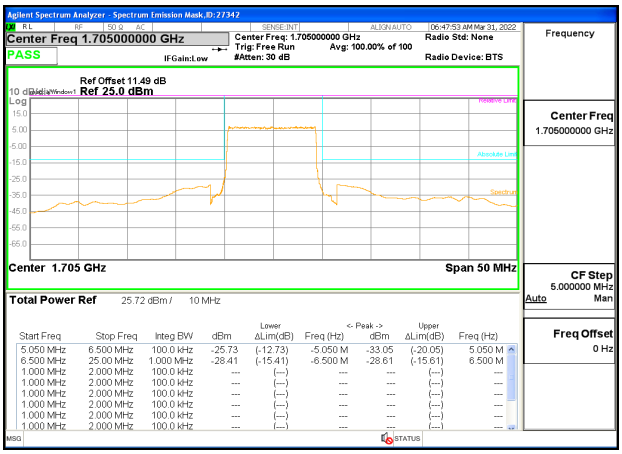


5G NR n70 10MHz BPSK Low Channel (Lower Block) RB50-0

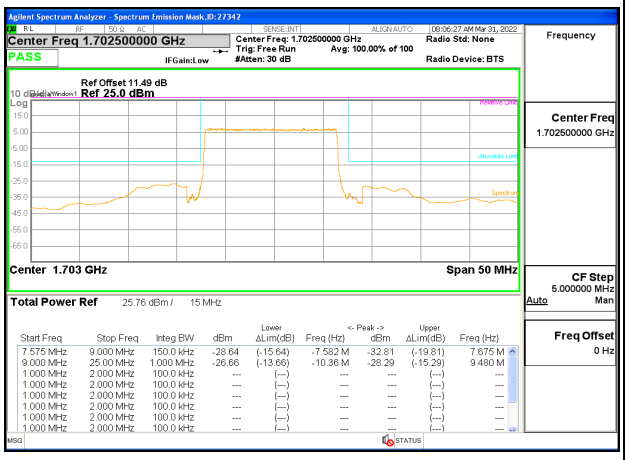
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



5G NR n70 10MHz BPSK Middle Channel (Upper Block Low End) RB50-0



5G NR n70 10MHz BPSK High Channel (Upper Block High End) RB50-0



5G NR n70 15MHz BPSK Middle Channel (Upper Block Low End) RB75-0

Intentionally Blank

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

9.2.14. LTE BAND 71 AND 5G NR n71 EMISSION MASK

LIMITS

FCC: §27.53

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

ISED: RSS130§4.7

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 $\log_{10}$ p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits

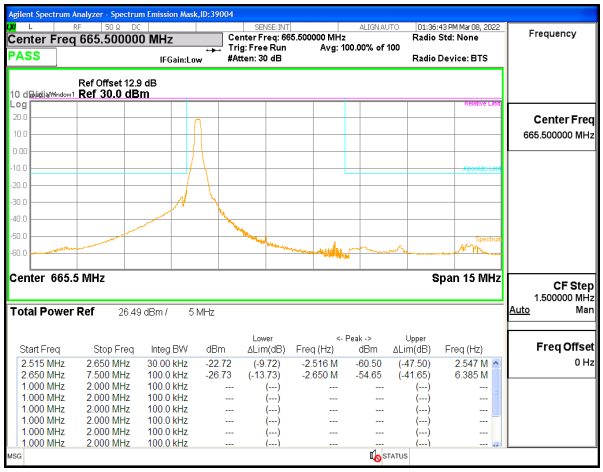
In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
   i. 76 + 10 $\log_{10}$ p (watts), dB, for base and fixed equipment and
   ii. 65 + 10 $\log_{10}$ p (watts), dB, for mobile and portable equipment

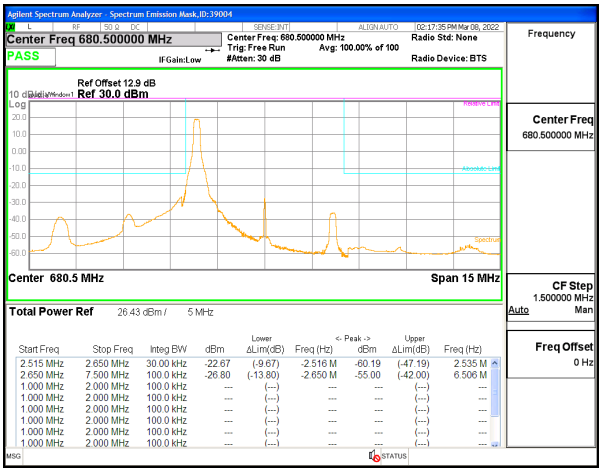
(b) the e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

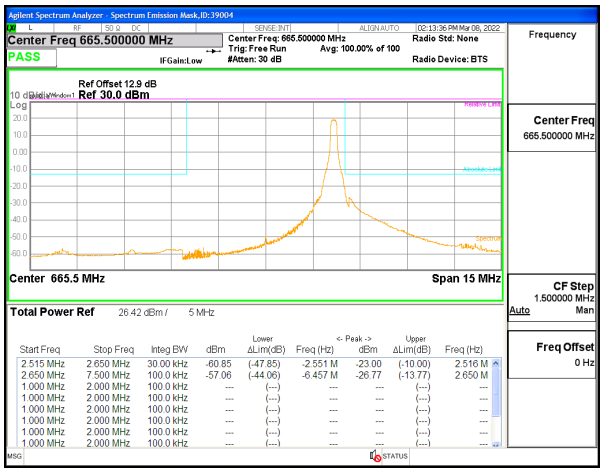
LTE BAND 71 EMISSION MASK



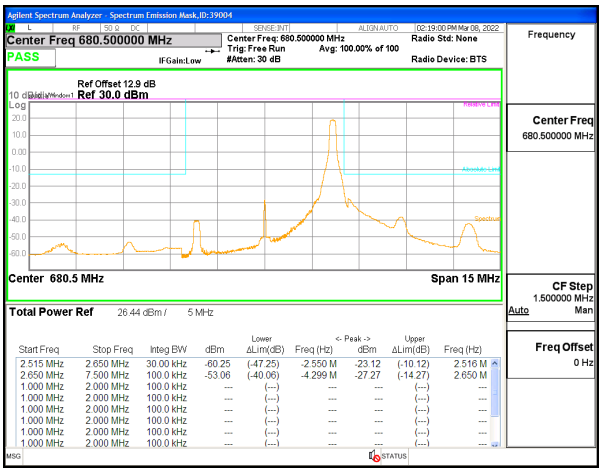
LTE B71 5MHz QPSK Low Channel RB1-0



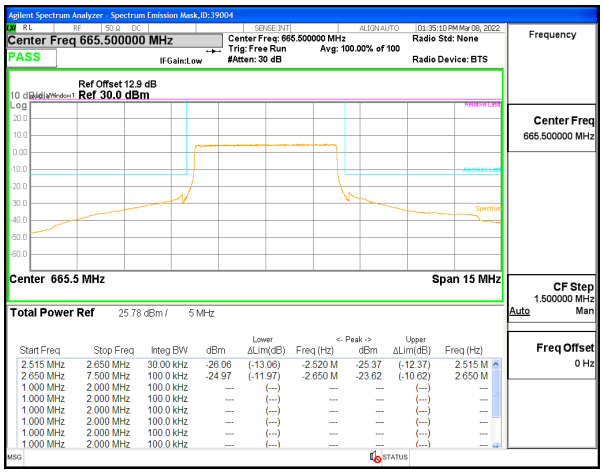
LTE B71 5MHz QPSK Middle Channel RB1-0



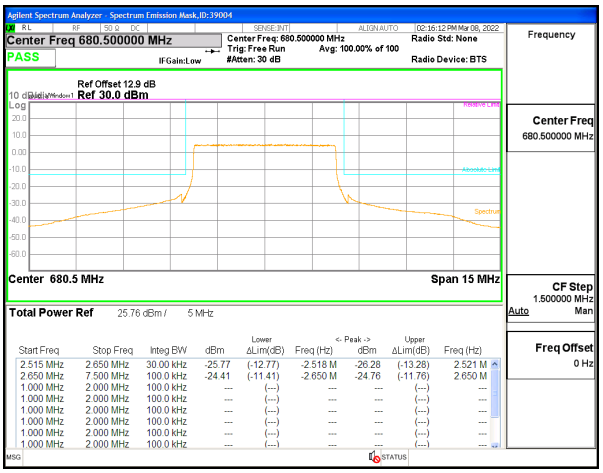
LTE B71 5MHz QPSK Low Channel RB1-24



LTE B71 5MHz QPSK Middle Channel RB1-24

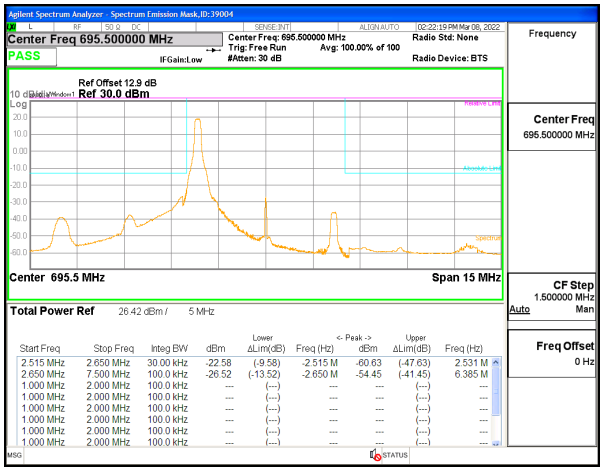


LTE B71 5MHz QPSK Low Channel RB25-0

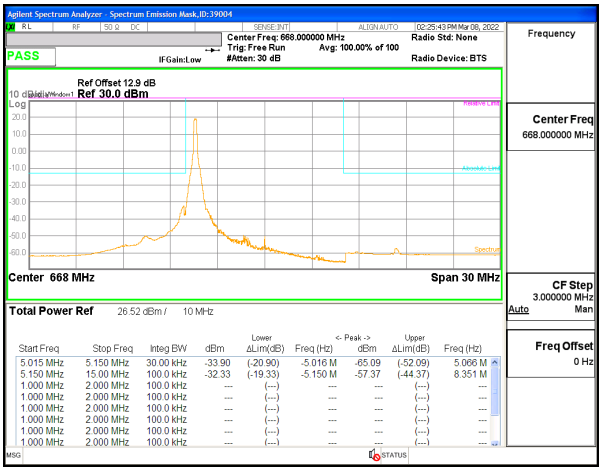


LTE B71 5MHz QPSK Middle Channel RB25-0

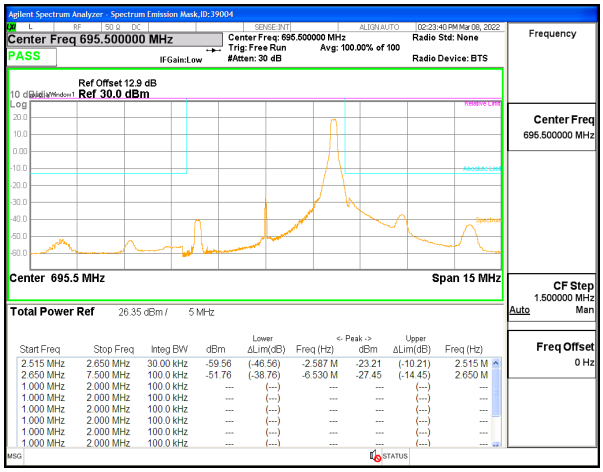
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



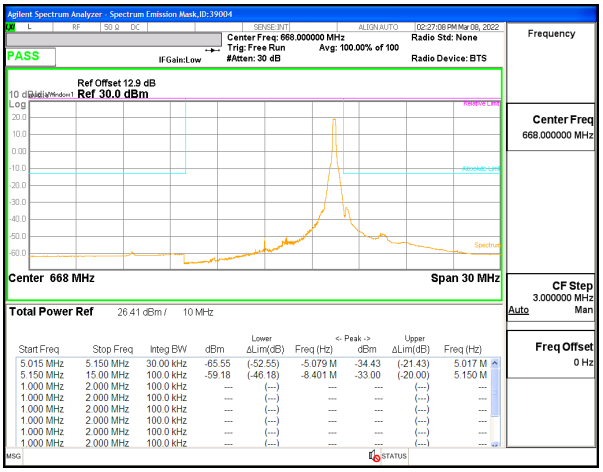
LTE B71 5MHz QPSK High Channel RB1-0



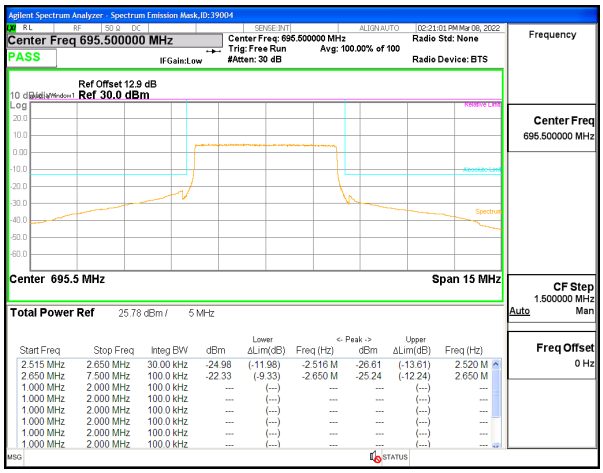
LTE B71 10MHz QPSK Low Channel RB1-0



LTE B71 5MHz QPSK High Channel RB1-24



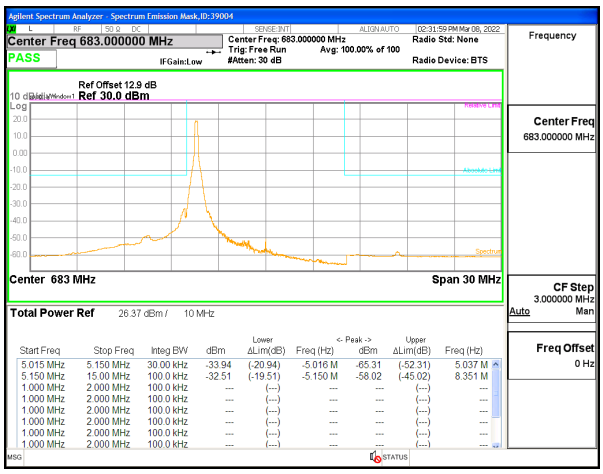
LTE B71 10MHz QPSK Low Channel RB1-49



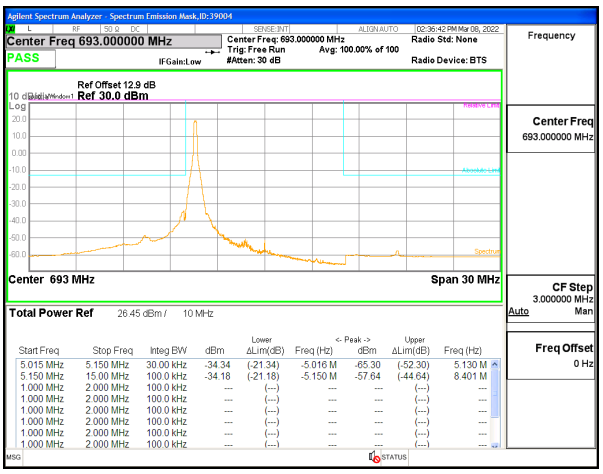
LTE B71 5MHz QPSK High Channel RB25-0

LTE B71 10MHz QPSK Low Channel RB50-0

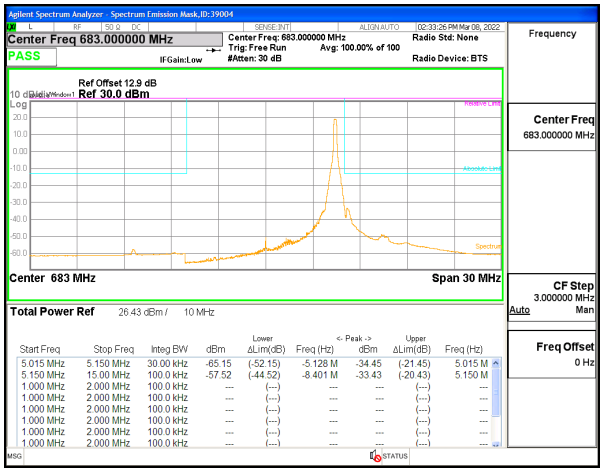
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



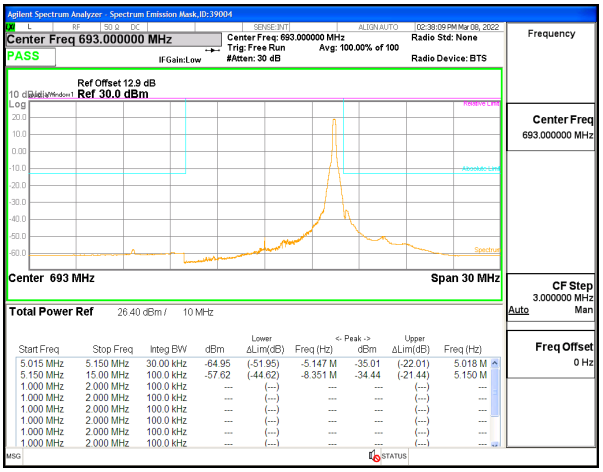
LTE B71 10MHz QPSK Middle Channel RB1-0



LTE B71 10MHz QPSK High Channel RB1-0

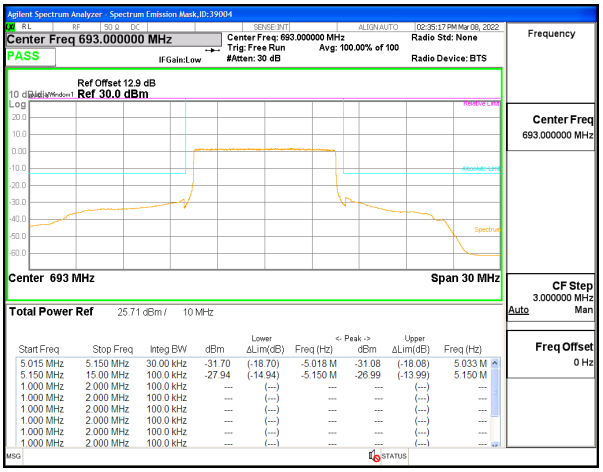


LTE B71 10MHz QPSK Middle Channel RB1-49



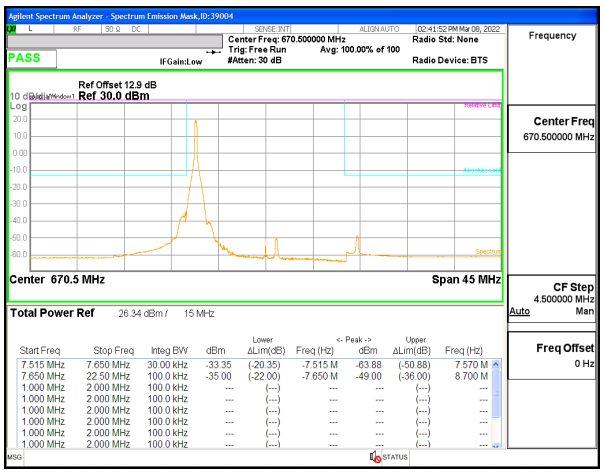
LTE B71 10MHz QPSK High Channel RB1-49

LTE B71 10MHz QPSK Middle Channel RB50-0

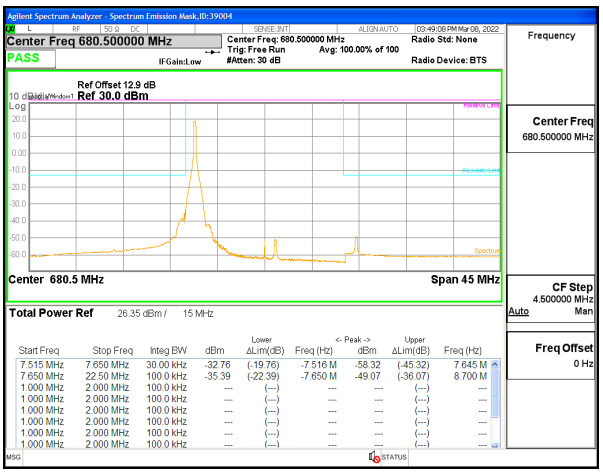


LTE B71 10MHz QPSK High Channel RB50-0

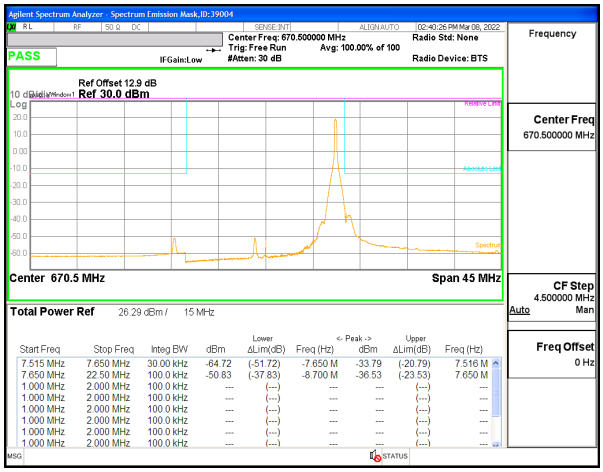
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



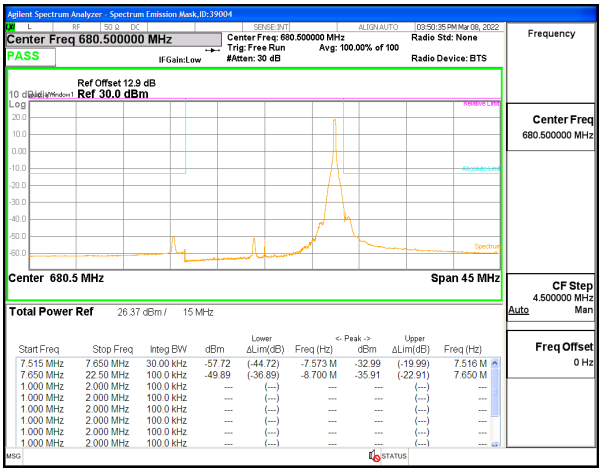
LTE B71 15MHz QPSK Low Channel RB1-0



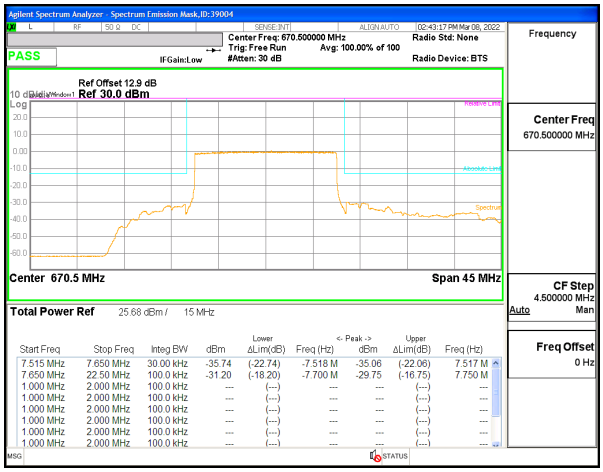
LTE B71 15MHz QPSK Middle Channel RB1-0



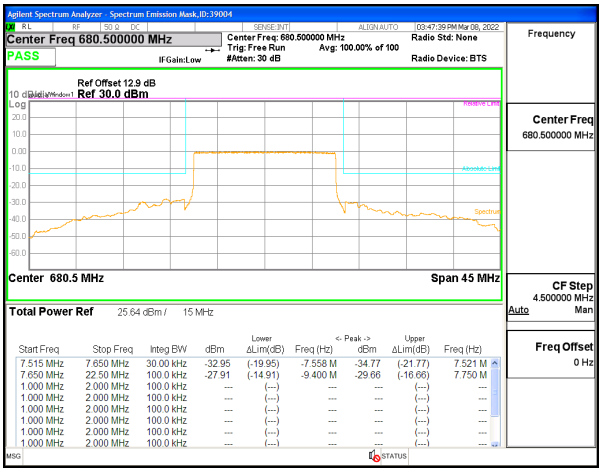
LTE B71 15MHz QPSK Low Channel RB1-74



LTE B71 15MHz QPSK Middle Channel RB1-74

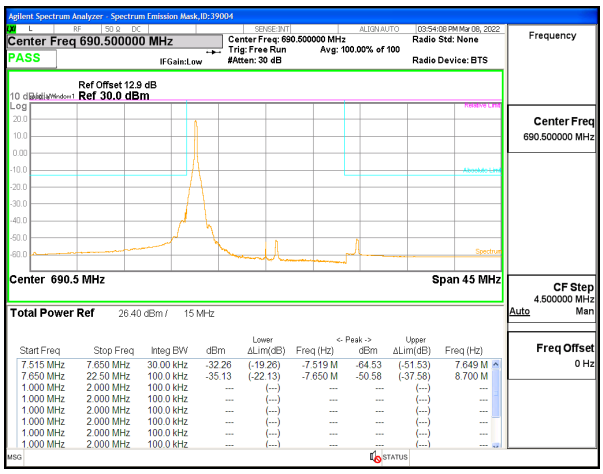


LTE B71 15MHz QPSK Low Channel RB75-0

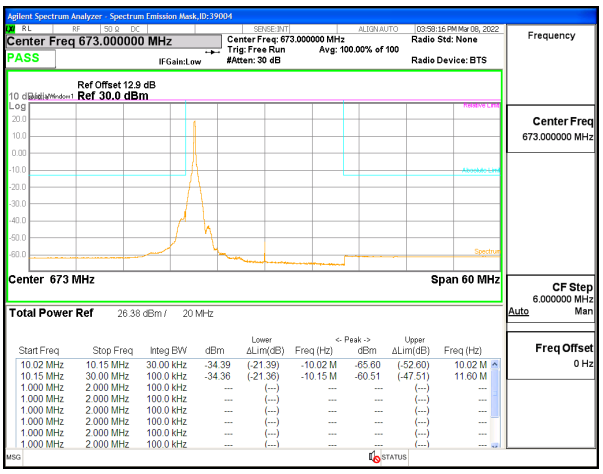


LTE B71 15MHz QPSK Middle Channel RB75-0

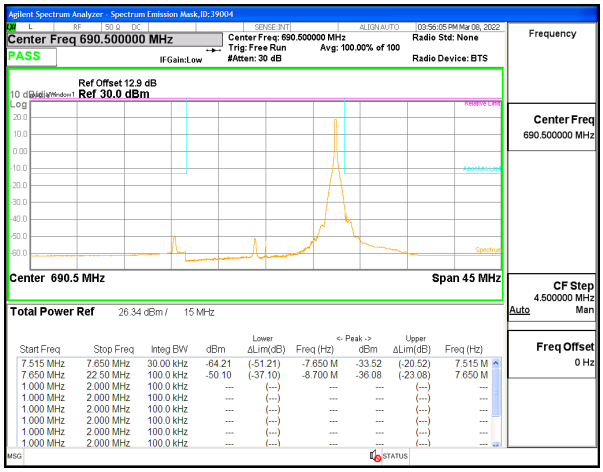
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



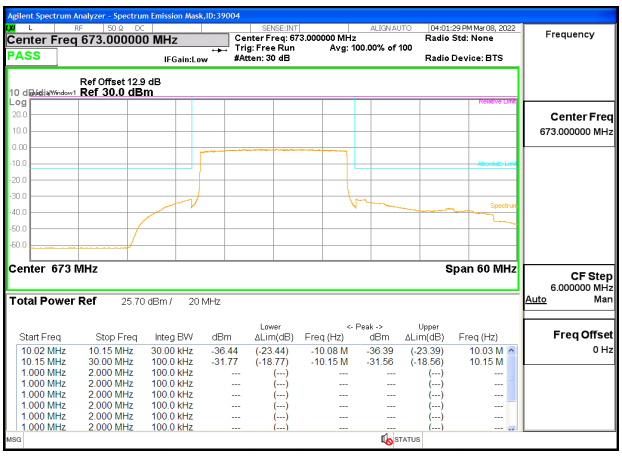
LTE B71 15MHz QPSK High Channel RB1-0



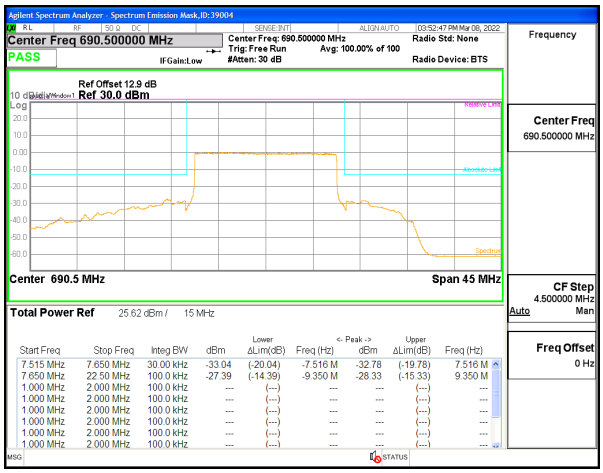
LTE B71 20MHz QPSK Low Channel RB1-0



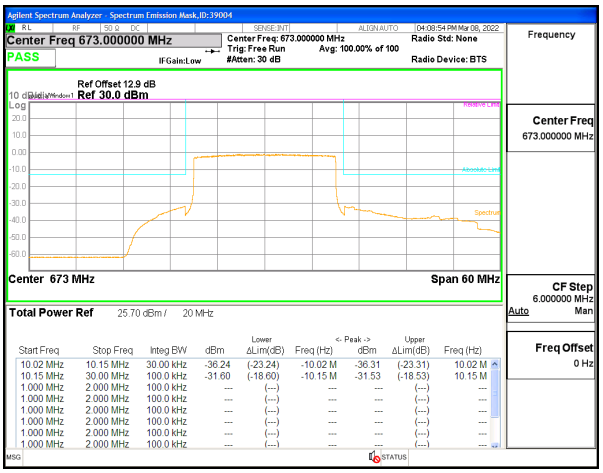
LTE B71 15MHz QPSK High Channel RB1-74



LTE B71 20MHz QPSK Low Channel RB1-99

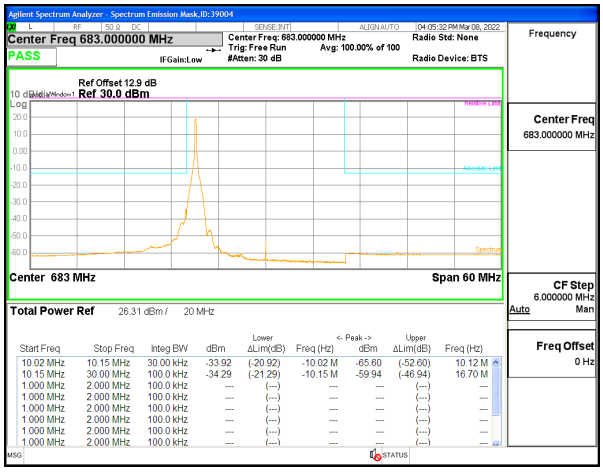


LTE B71 15MHz QPSK High Channel RB75-0

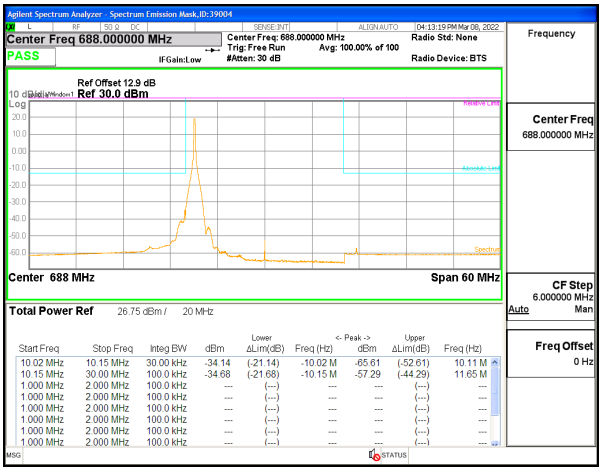


LTE B71 20MHz QPSK Low Channel RB100-0

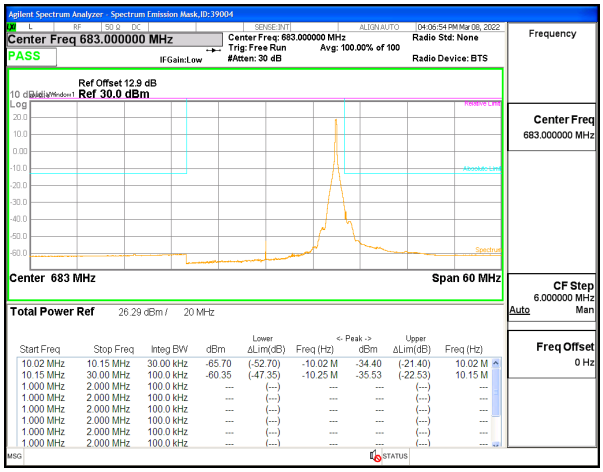
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



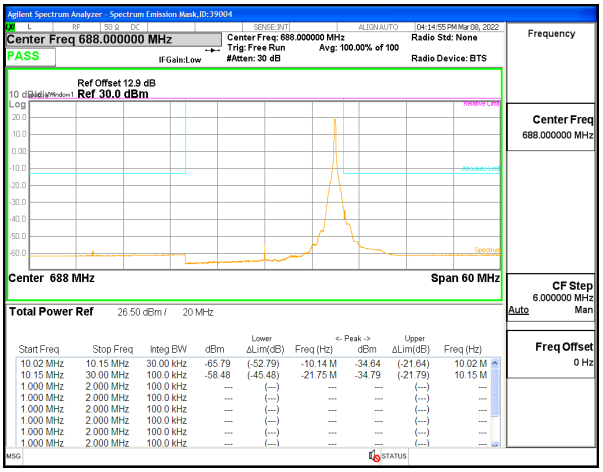
LTE B71 20MHz QPSK Middle Channel RB1-0



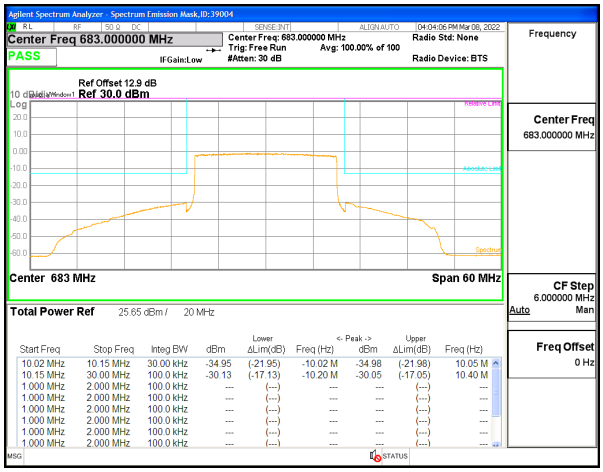
LTE B71 20MHz QPSK High Channel RB1-0



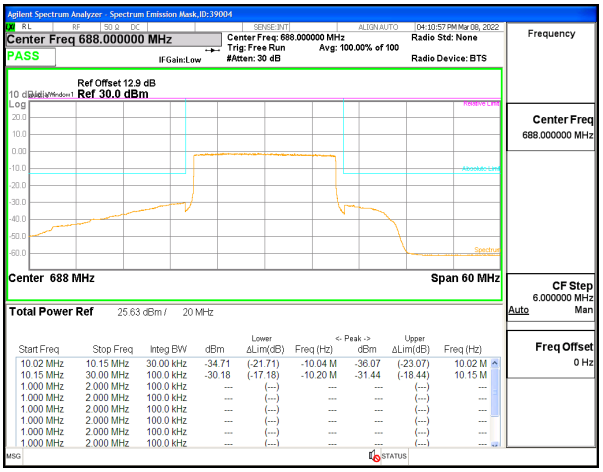
LTE B71 20MHz QPSK Middle Channel RB1-99



LTE B71 20MHz QPSK High Channel RB1−99



LTE B71 20MHz QPSK Middle Channel RB100-0

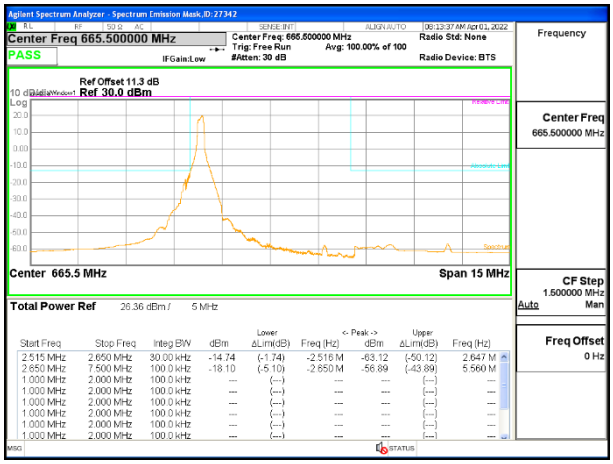


LTE B71 20MHz QPSK High Channel RB100-0

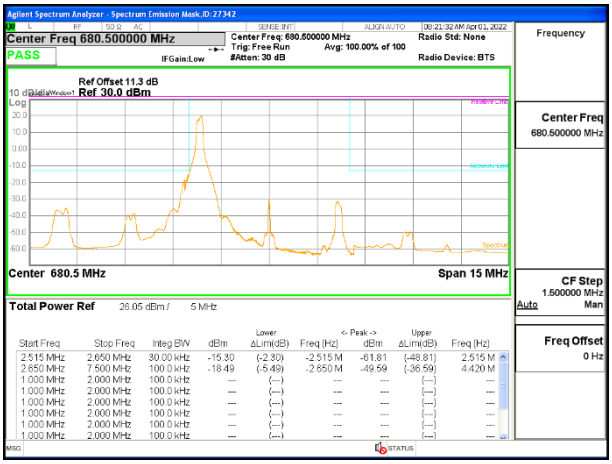
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

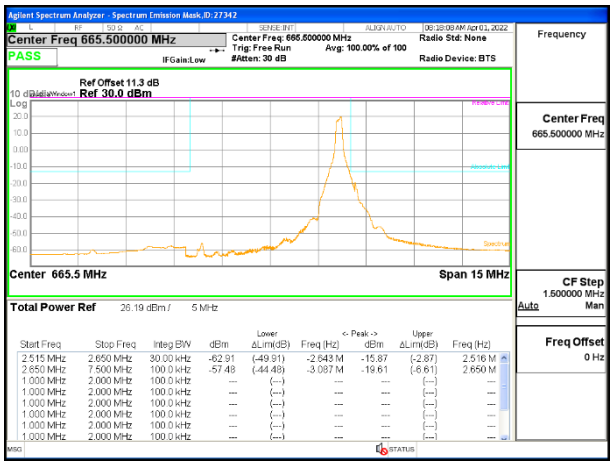
5G NR n71 EMISSION MASK



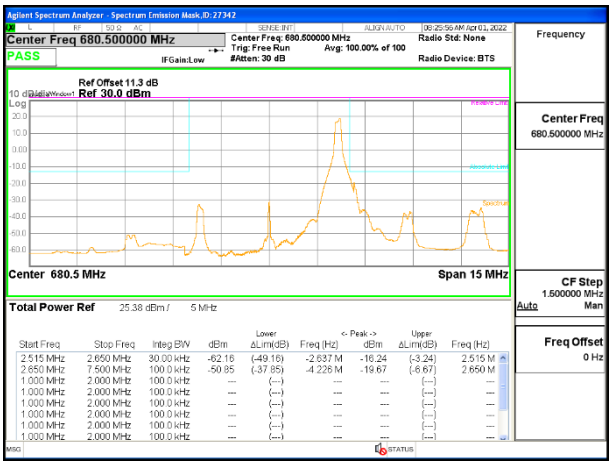
5G NR n71 5MHz BPSK Low Channel RB1-0



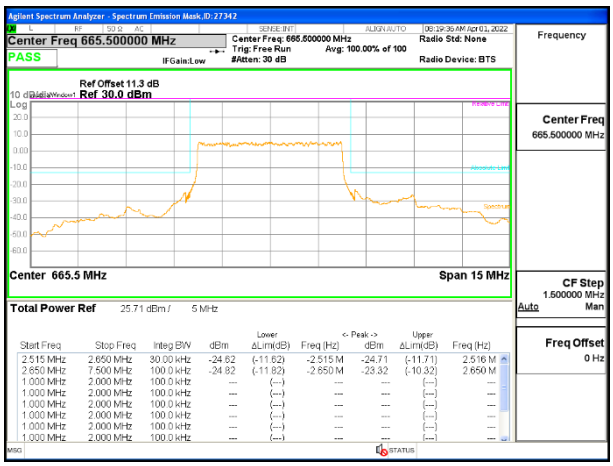
5G NR n71 5MHz BPSK Middle Channel RB1-0



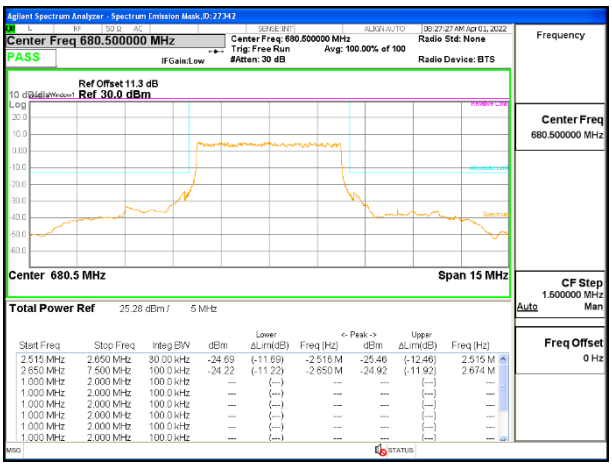
5G NR n71 5MHz BPSK Low Channel RB1-24



5G NR n71 5MHz BPSK Middle Channel RB1-24

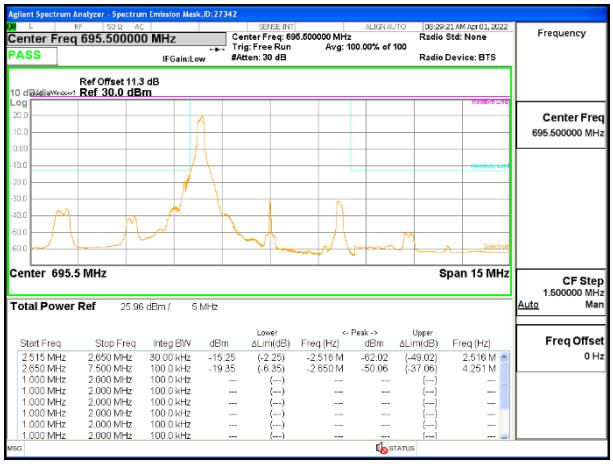


5G NR n71 5MHz BPSK Low Channel RB25-0

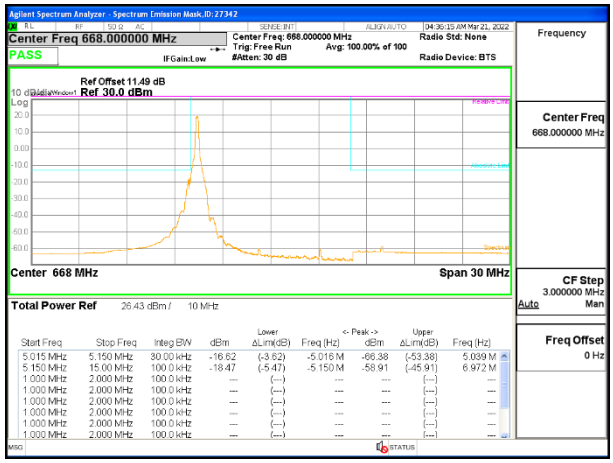


5G NR n71 5MHz BPSK Middle Channel RB25-0

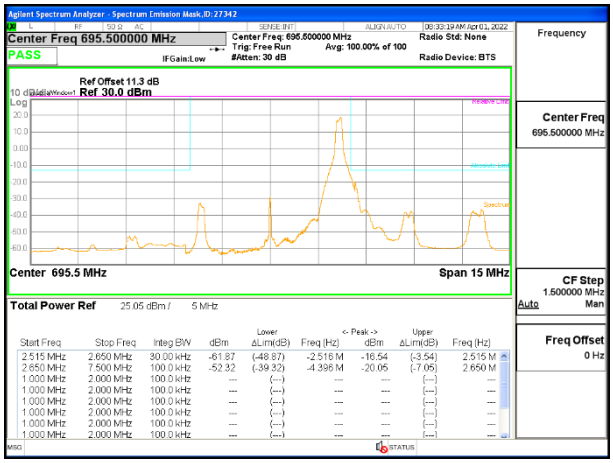
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



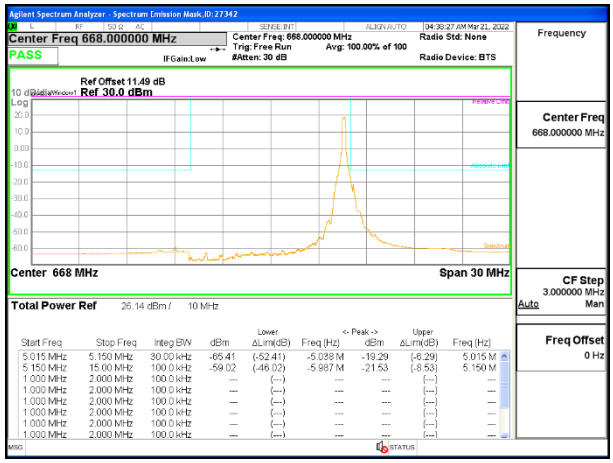
5G NR n71 5MHz BPSK High Channel RB1-0



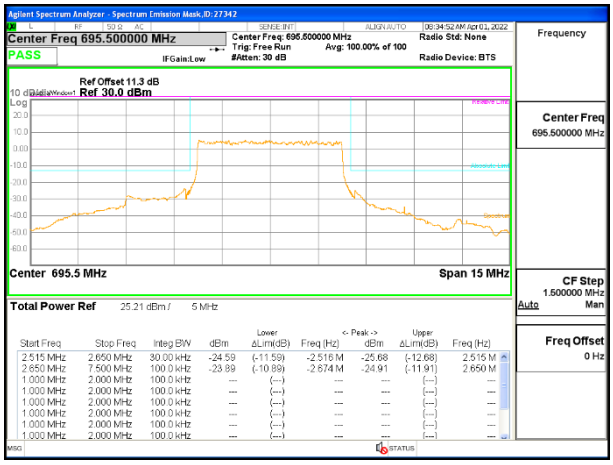
5G NR n71 10MHz BPSK Low Channel RB1-0



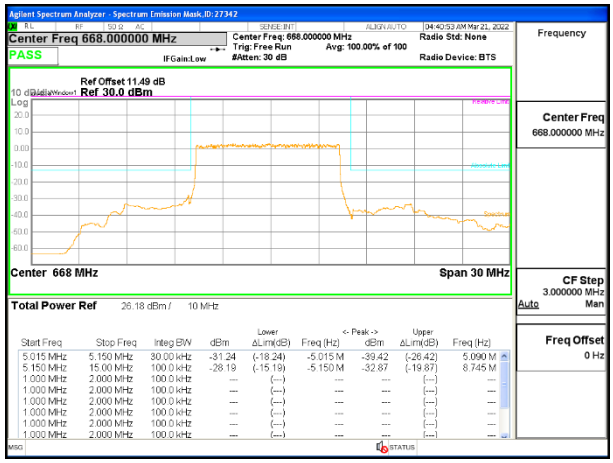
5G NR n71 5MHz BPSK High Channel RB1-24



5G NR n71 10MHz BPSK Low Channel RB1-51

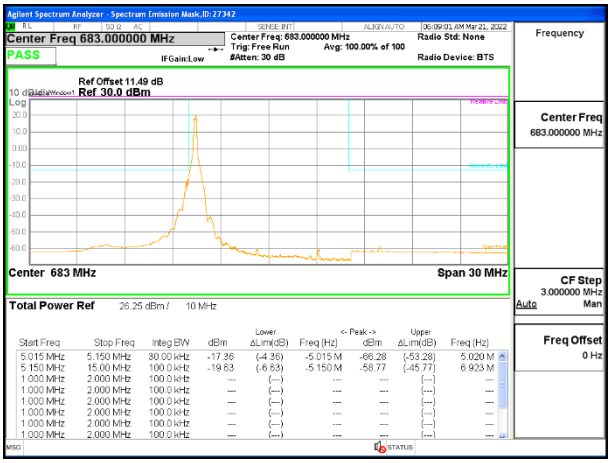


5G NR n71 5MHz BPSK High Channel RB25-0

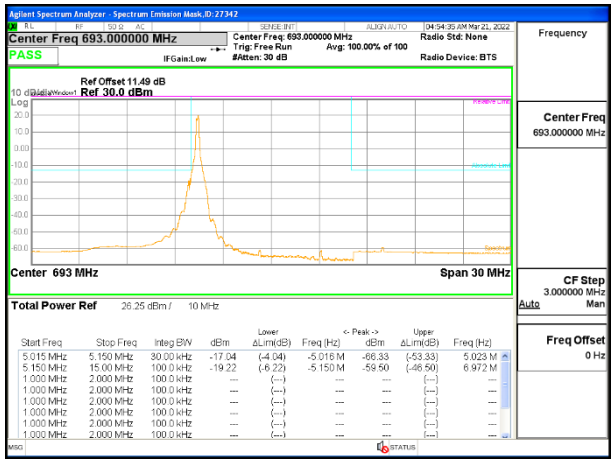


5G NR n71 10MHz BPSK Low Channel RB50-0

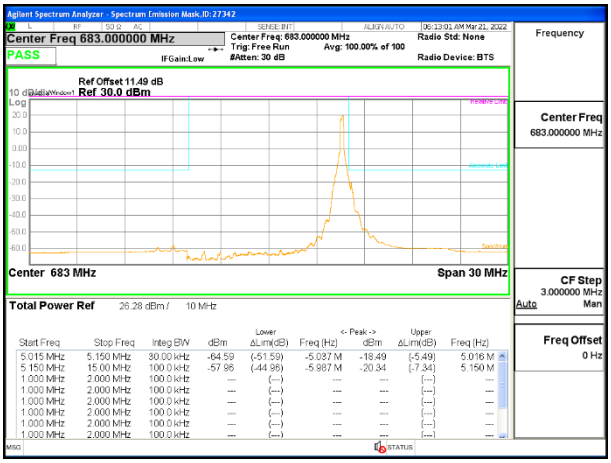
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



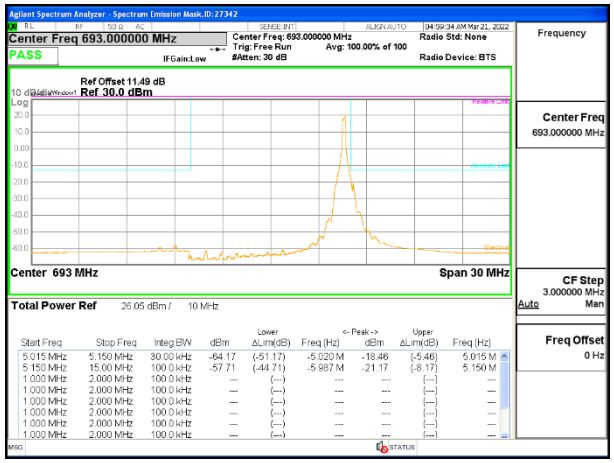
5G NR n71 10MHz BPSK Middle Channel RB1-0



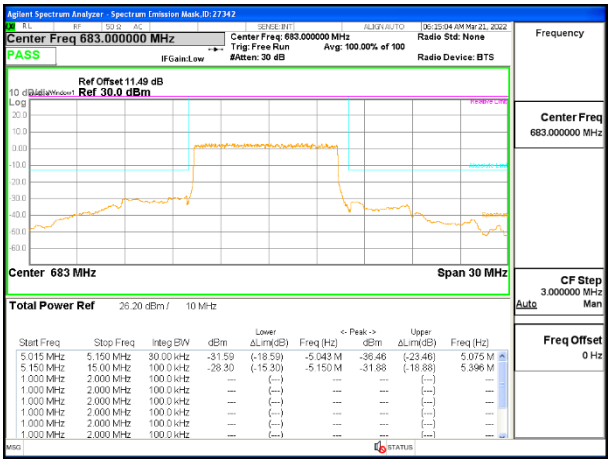
5G NR n71 10MHz BPSK High Channel RB1-0



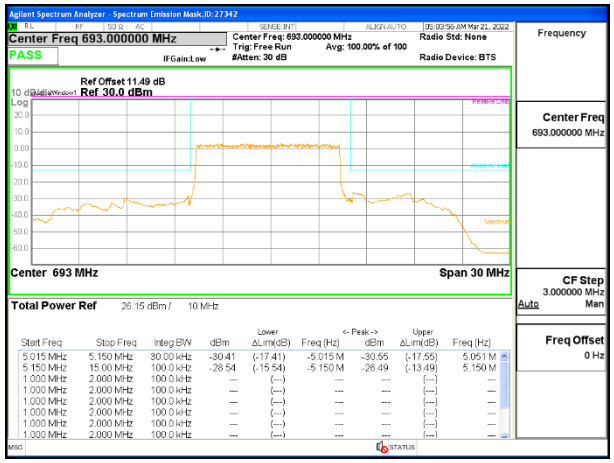
5G NR n71 10MHz BPSK Middle Channel RB1-51



5G NR n71 10MHz BPSK High Channel RB1-51

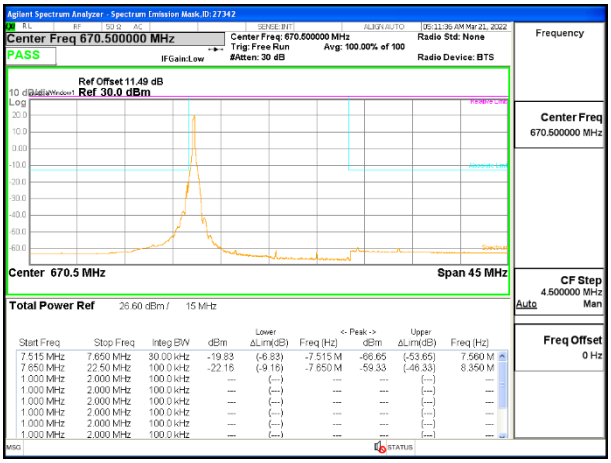


5G NR n71 10MHz BPSK Middle Channel RB50-0

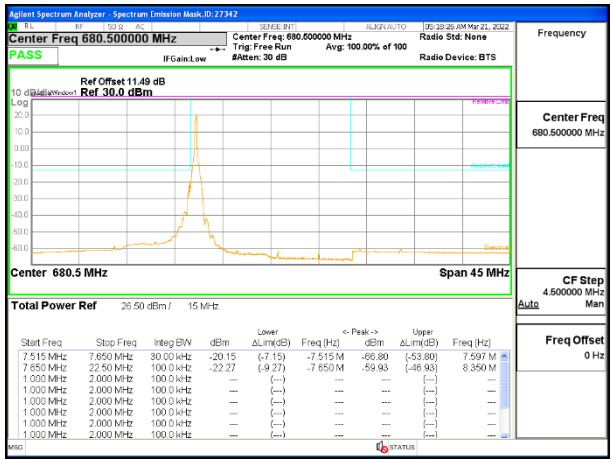


5G NR n71 10MHz BPSK High Channel RB50-0

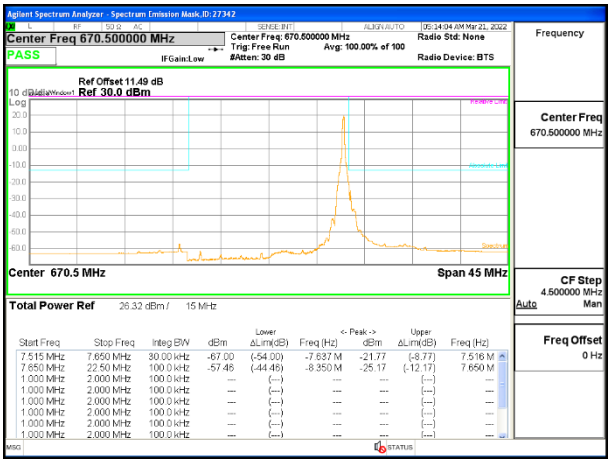
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



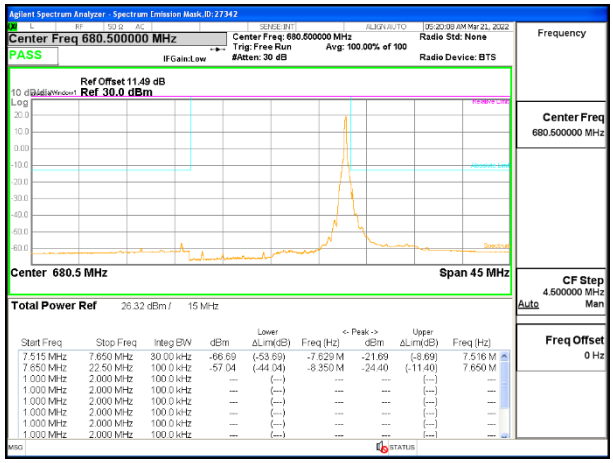
5G NR n71 15MHz BPSK Low Channel RB1-0



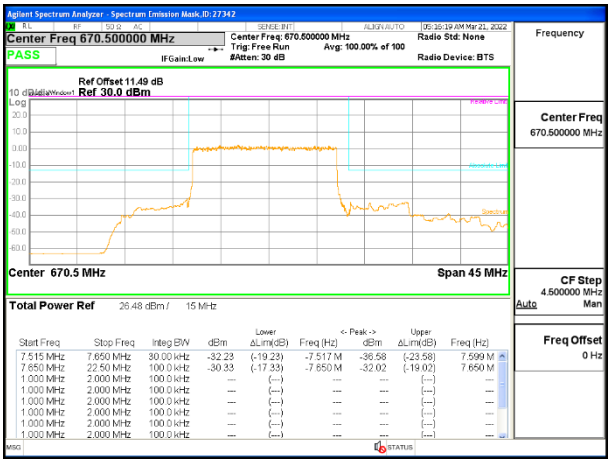
5G NR n71 15MHz BPSK Middle Channel RB1-0



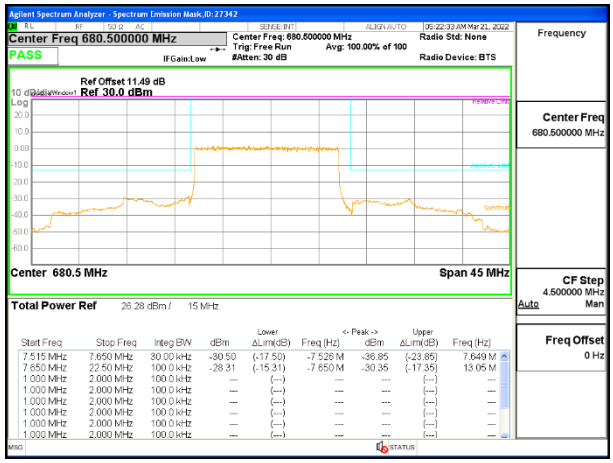
5G NR n71 15MHz BPSK Low Channel RB1-78



5G NR n71 15MHz BPSK Middle Channel RB1-78

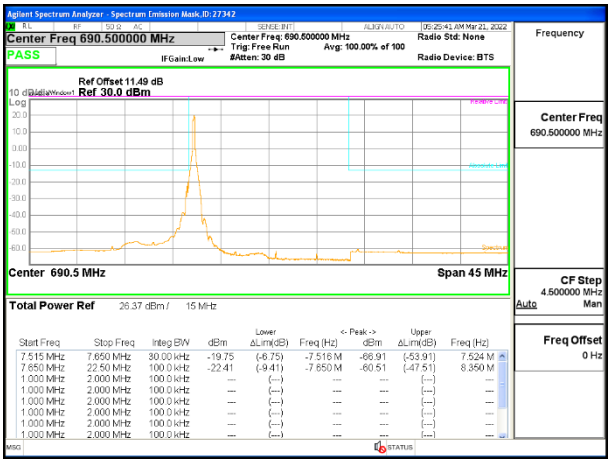


5G NR n71 15MHz BPSK Low Channel RB75-0

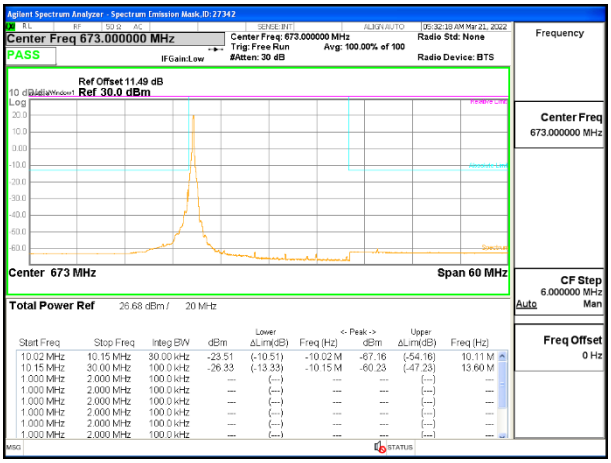


5G NR n71 15MHz BPSK Middle Channel RB75-0

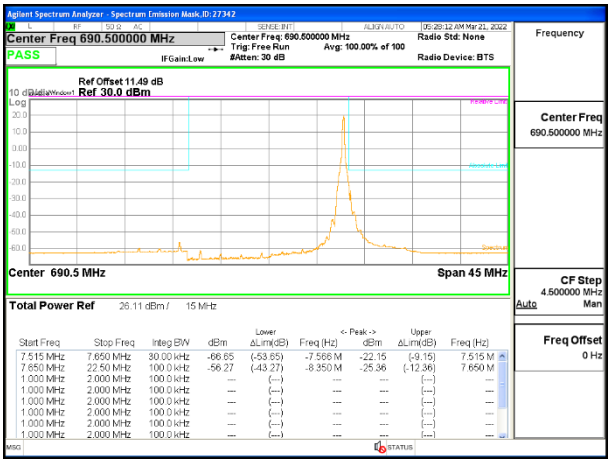
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



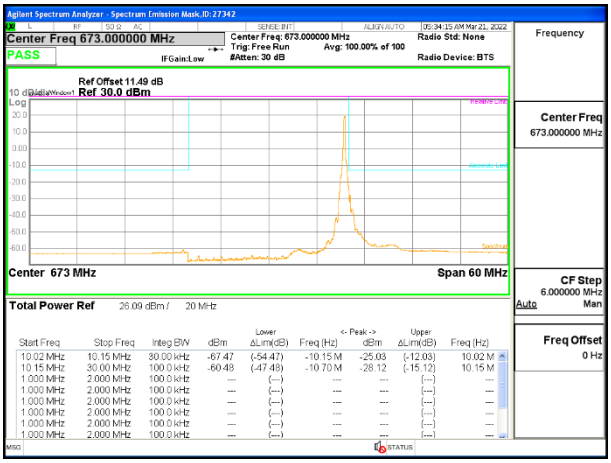
5G NR n71 15MHz BPSK High Channel RB1-0



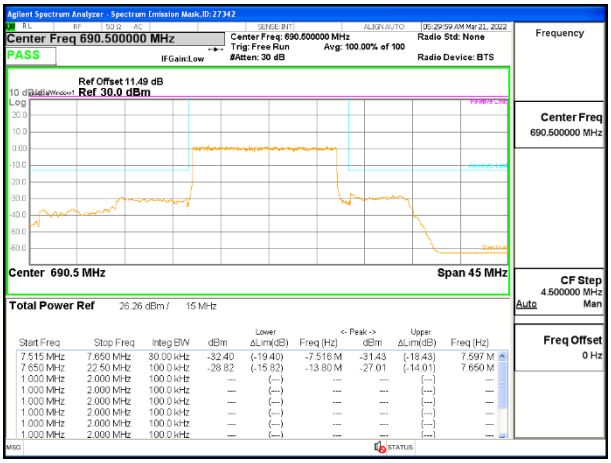
5G NR n71 20MHz BPSK Low Channel RB1-0



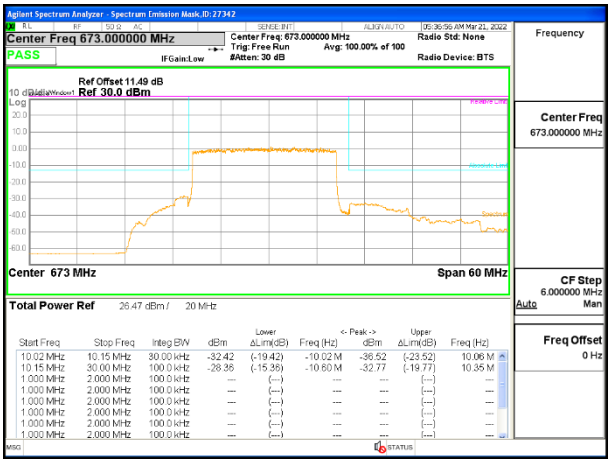
5G NR n71 15MHz BPSK High Channel RB1-78



5G NR n71 20MHz BPSK Low Channel RB1-105



5G NR n71 15MHz BPSK High Channel RB75-0



5G NR n71 20MHz BPSK Low Channel RB100-0

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.