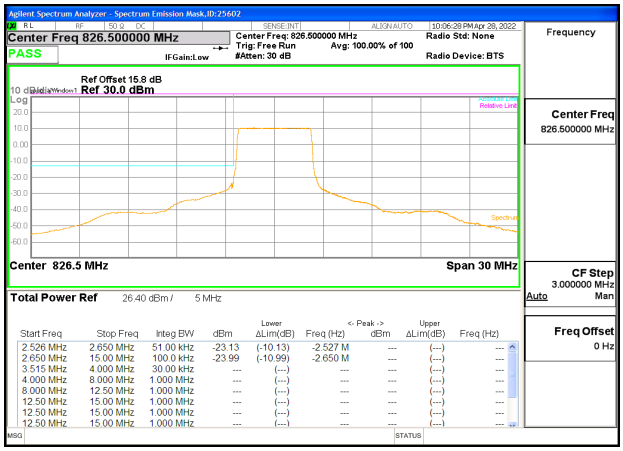
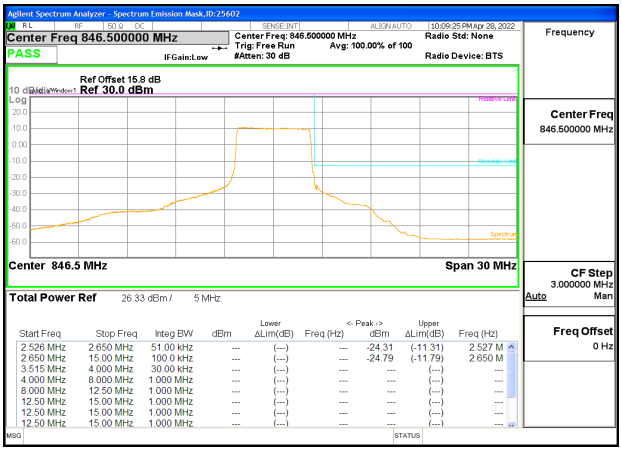
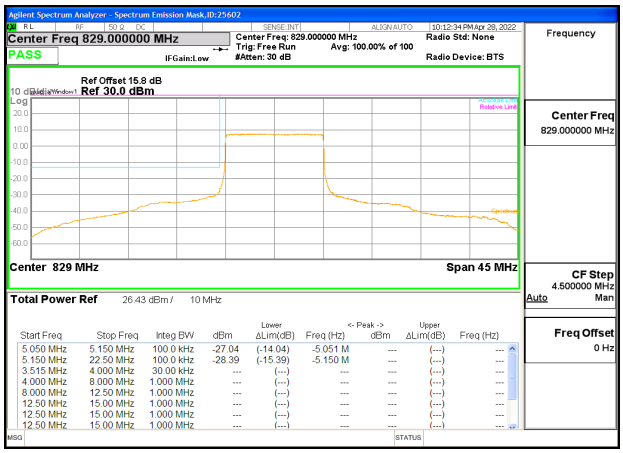


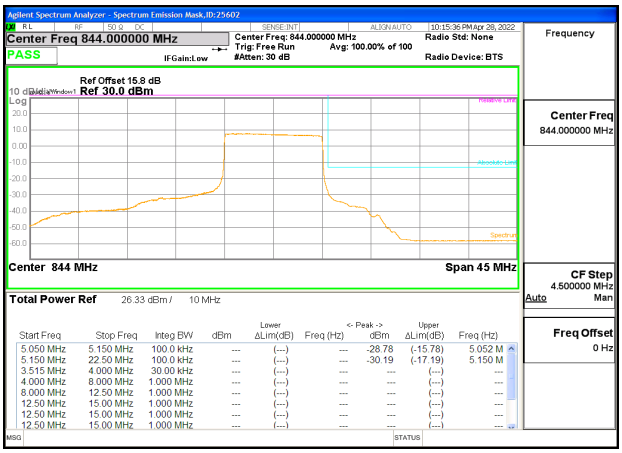
LTE B26 5MHz QPSK Low Channel RB25-0



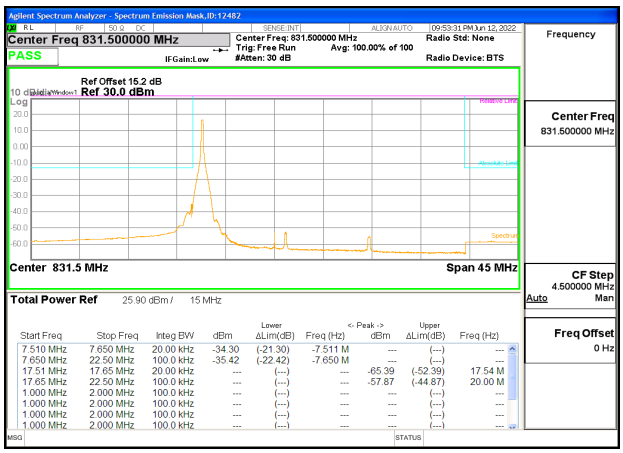
LTE B26 5MHz QPSK High Channel RB25-0



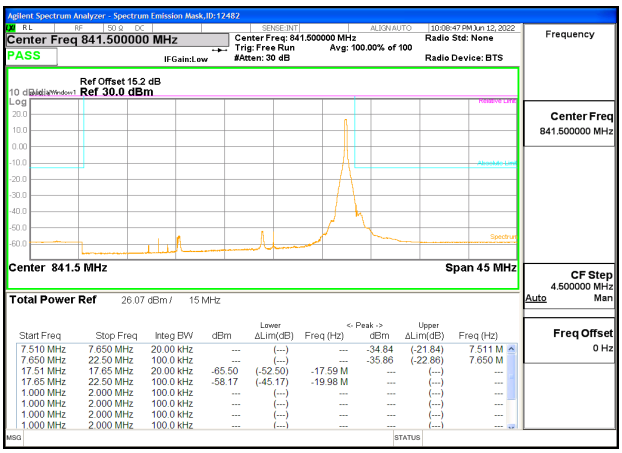
LTE B26 10MHz QPSK Low Channel RB50-0



LTE B26 10MHz QPSK High Channel RB50-0

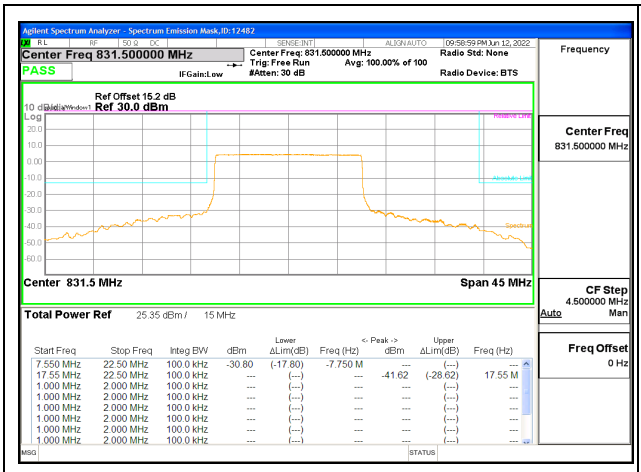


LTE B26 15MHz QPSK Low Channel RB1-0

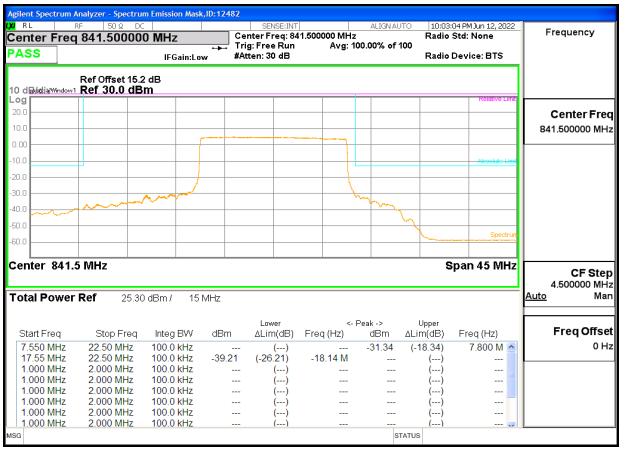


LTE B26 15MHz QPSK High Channel RB1-78

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.



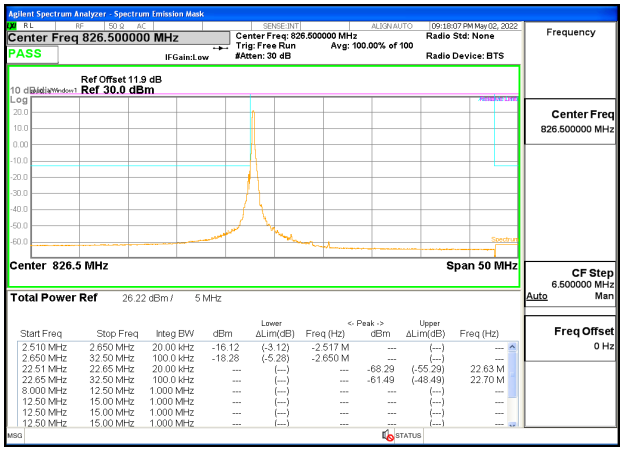
LTE B26 15MHz QPSK Low Channel RB75-0



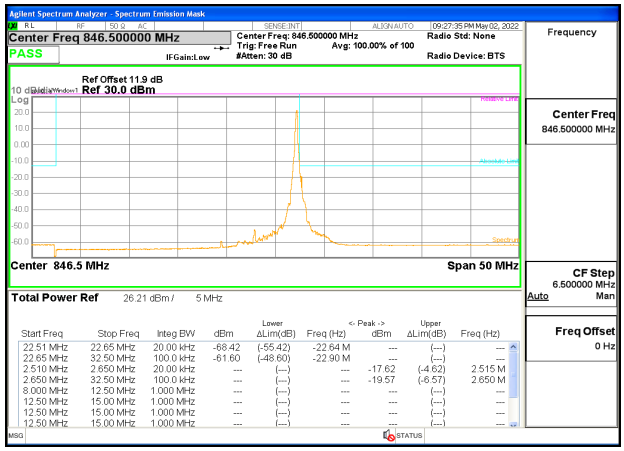
LTE B26 15MHz QPSK High Channel RB75-0

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

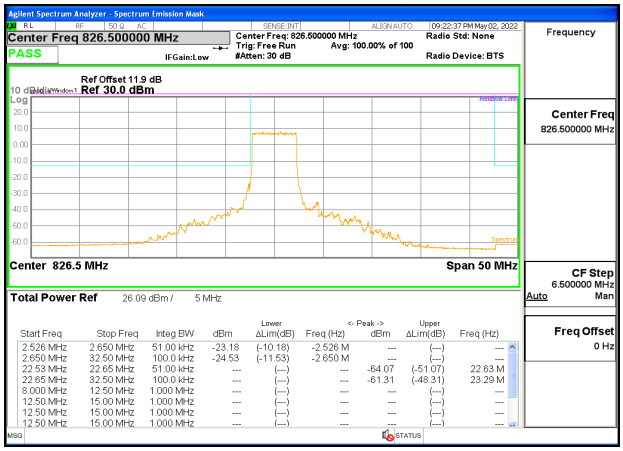
5G NR n26 EMISSION MASK



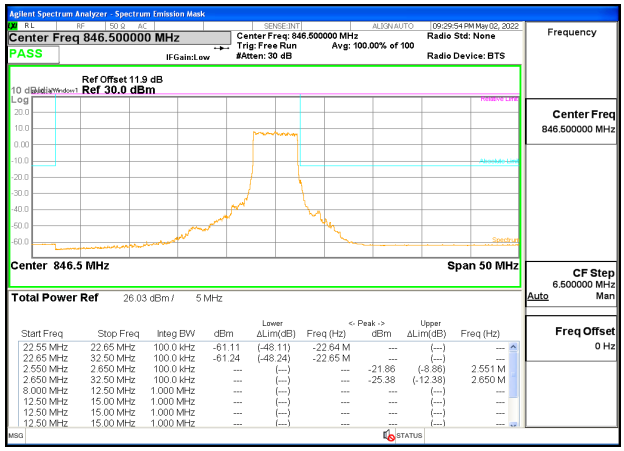
5G NR n26 5MHz BPSK Low Channel RB1-0, ID:25602



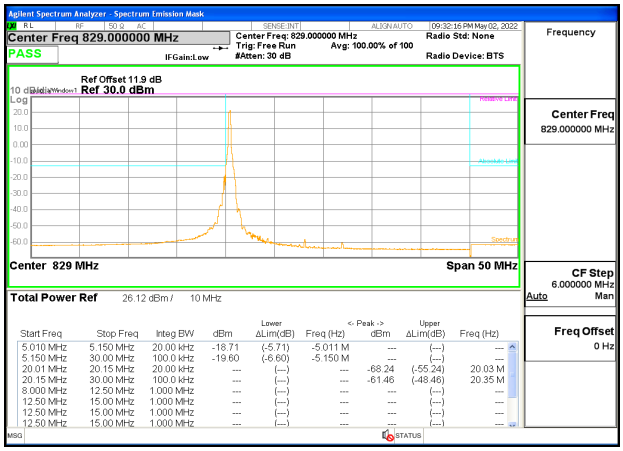
5G NR n26 5MHzz BPSK High Channel RB1-24, ID:25602



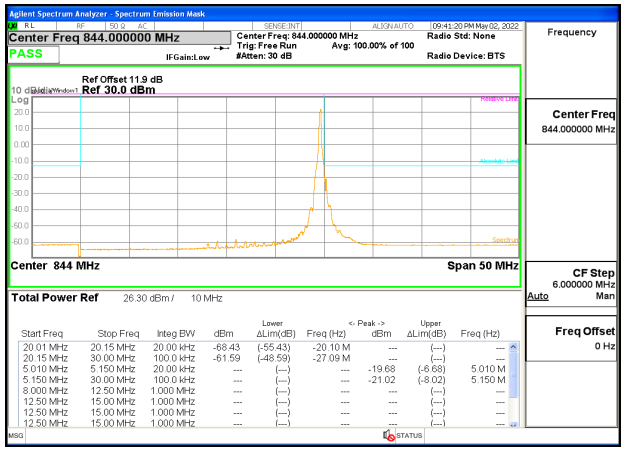
5G NR n26 5MHz BPSK Low Channel RB25-0, ID:25602



5G NR n26 5MHz BPSK High Channel RB25-0, ID:25602

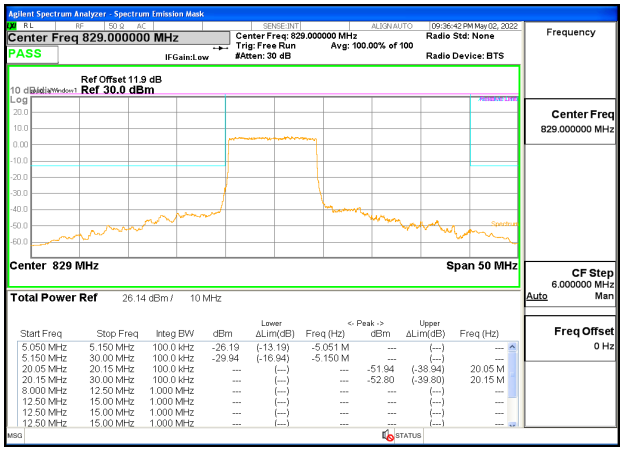


5G NR n26 10MHz BPSK Low Channel RB1-0, ID:12482

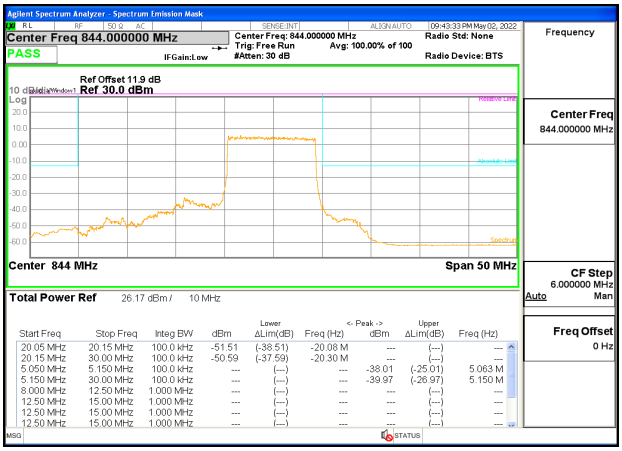


5G NR n26 10MHz BPSK High Channel RB1-51, ID:12482

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



5G NR n26 10MHz BPSK Low Channel RB50-0, ID:12482



5G NR n26 10MHz BPSK High Channel RB50-0, ID:12482

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

9.2.10. LTE BAND 30 AND 5G NR n30 EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53
(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

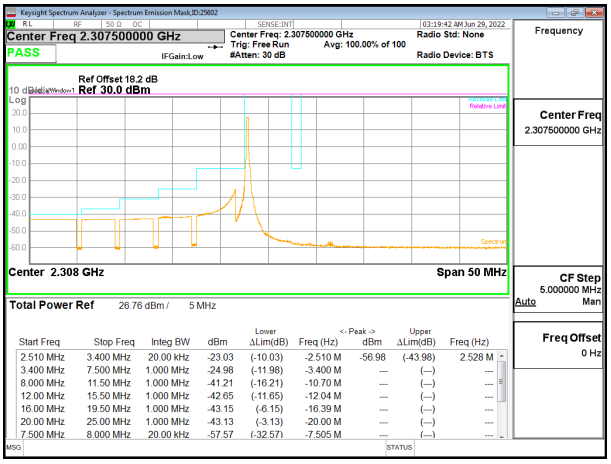
(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

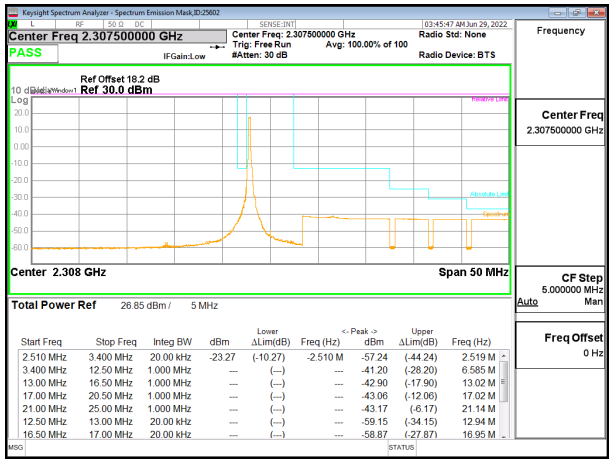
(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

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

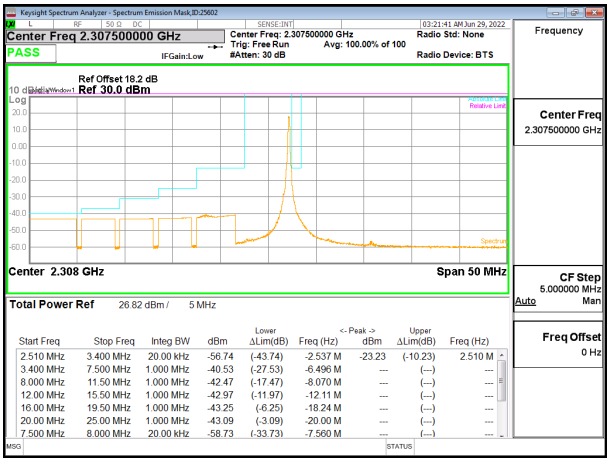
LTE BAND 30 EMISSION MASK



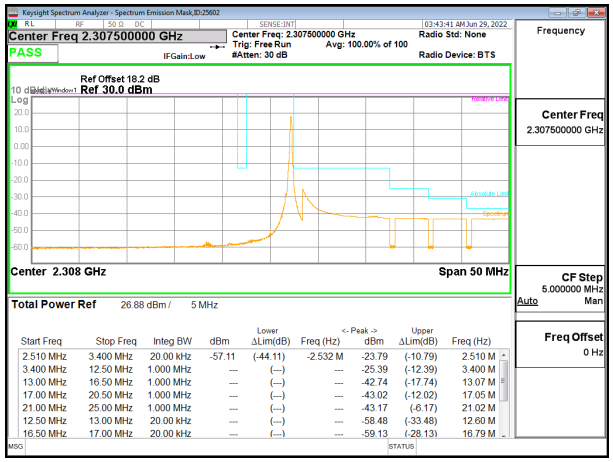
LTE B30 5MHz QPSK Low Channel RB1-0 (Low side)



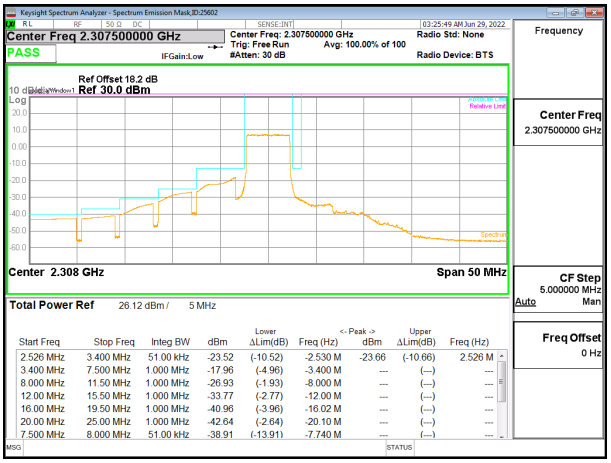
LTE B30 5MHz QPSK Low Channel RB1-0 (High side)



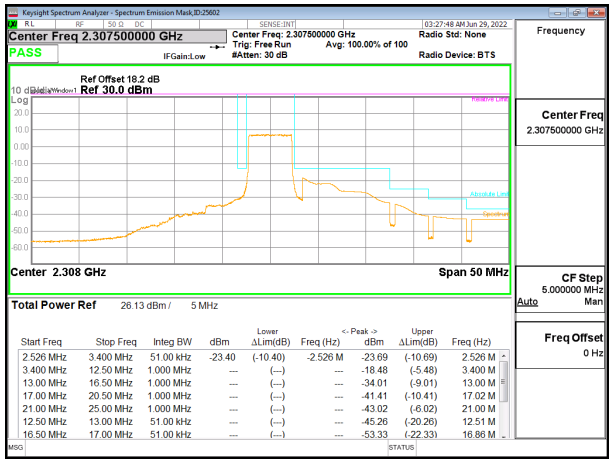
LTE B30 5MHz QPSK Low Channel RB1-24 (Low side)



LTE B30 5MHz QPSK Low Channel RB1-24 (High side)



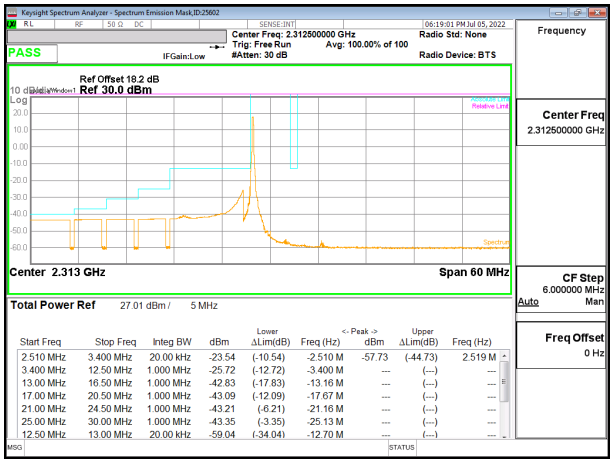
LTE B30 5MHz QPSK Low Channel RB25-0 (Low side)



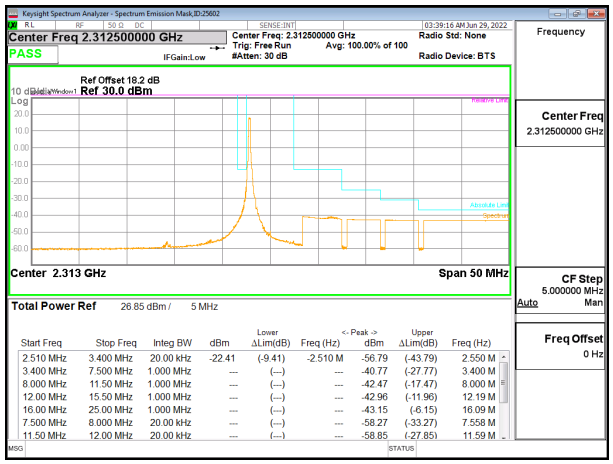
LTE B30 5MHz QPSK Low Channel RB25-0 (High side)

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

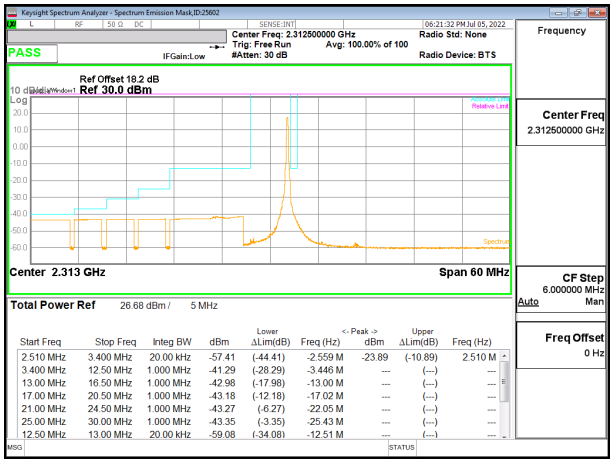
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



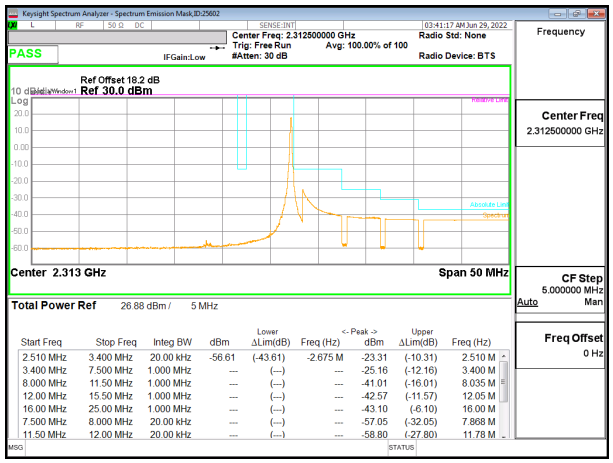
LTE B30 5MHz QPSK High Channel RB1-0 (Low side)



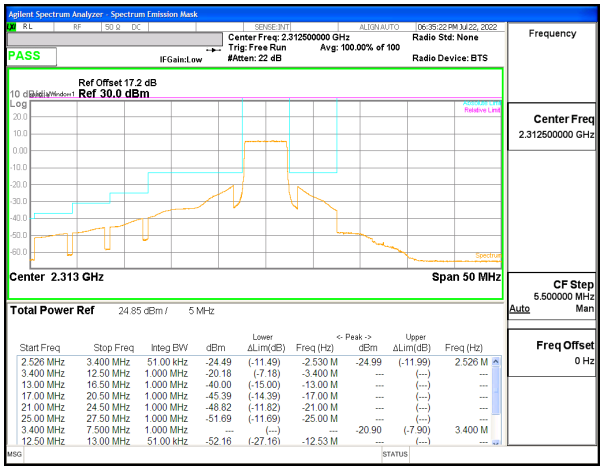
LTE B30 5MHz QPSK High Channel RB1-0 (High side)



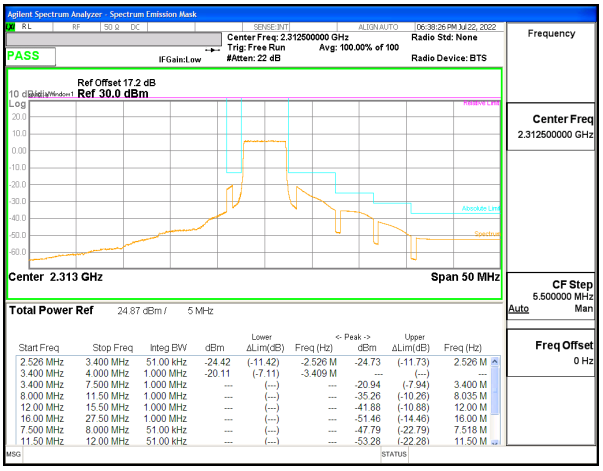
LTE B30 5MHz QPSK High Channel RB1-24 (Low side)



LTE B30 5MHz QPSK High Channel RB1-24 (High side)

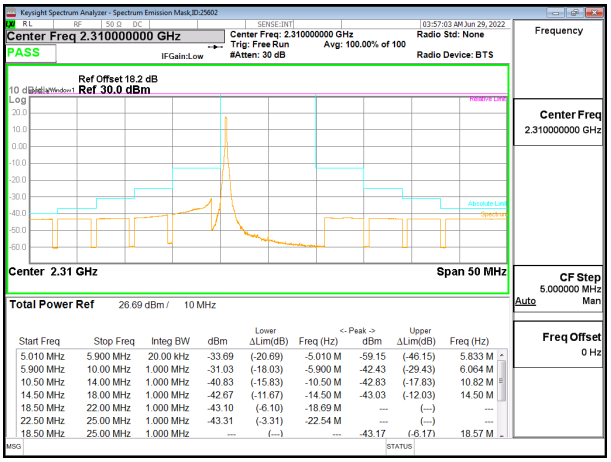


LTE B30 5MHz QPSK High Channel RB25-0 (Low side), ID:25780

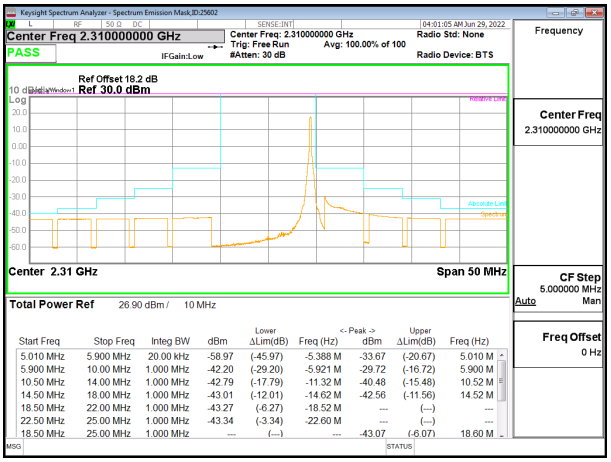


LTE B30 5MHz QPSK High Channel RB25-0 (High side), ID:25780

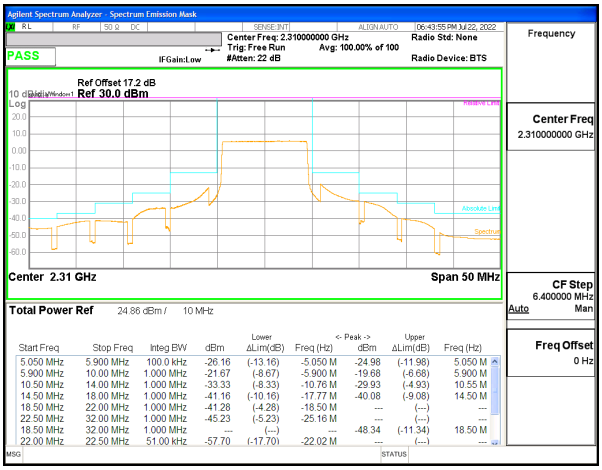
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000
FORM NO: CCSUP4031B
FAX: (510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



LTE B30 10MHz QPSK Middle Channel RB1-0



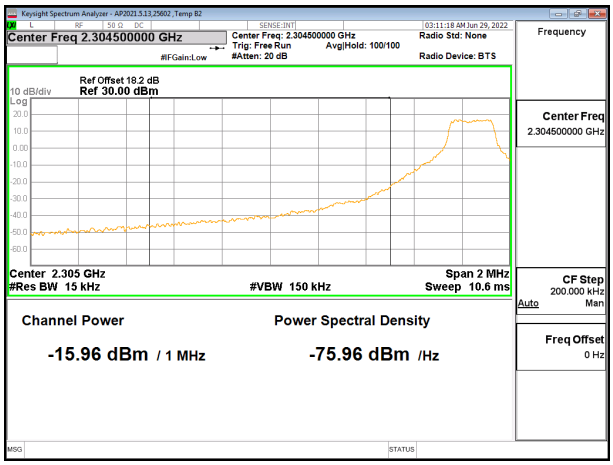
LTE B30 10MHz QPSK High Channel RB1-49



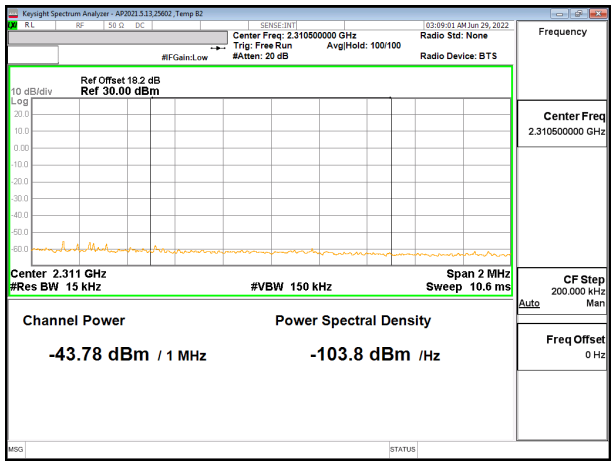
LTE B30 10MHz QPSK Middle Channel RB50-0, ID:25780

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.

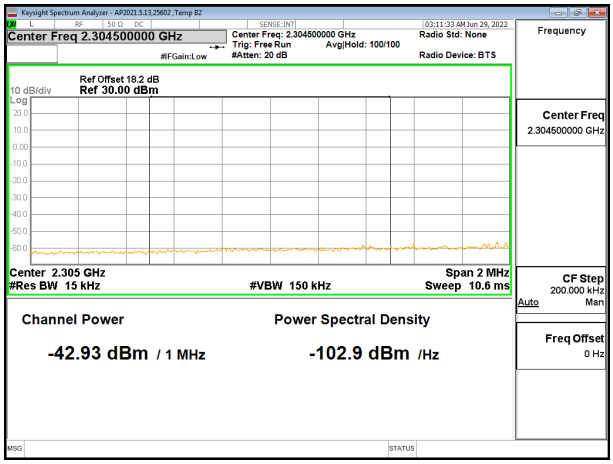
LTE BAND 30 ADJACENT CHANNEL POWER



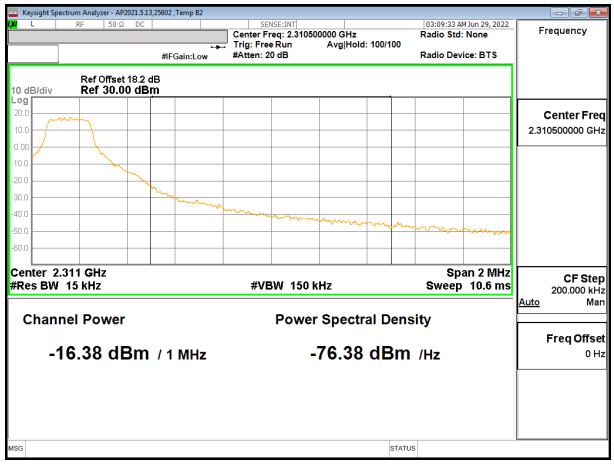
LTE B30 5MHz QPSK Low Channel RB1-0 (Low side)



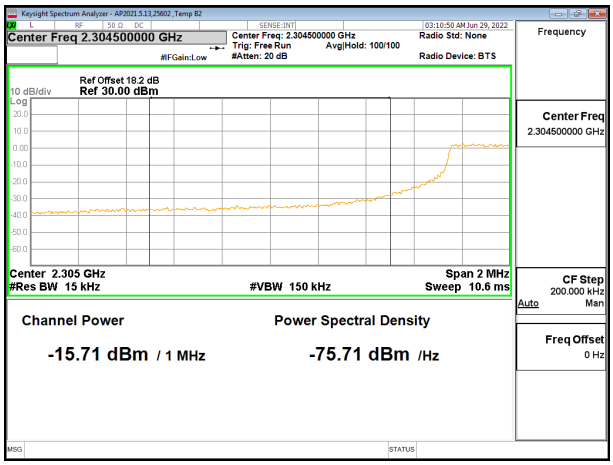
LTE B30 5MHz QPSK Low Channel RB1-0 (High side)



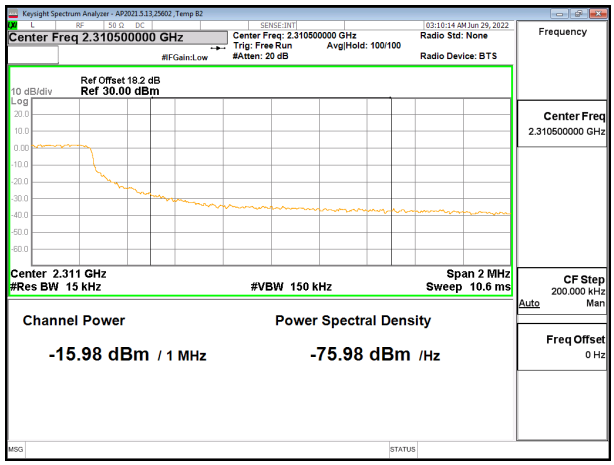
LTE B30 5MHz QPSK Low Channel RB1-24 (Low side)



LTE B30 MHz QPSK Low Channel RB1-24 (High side)

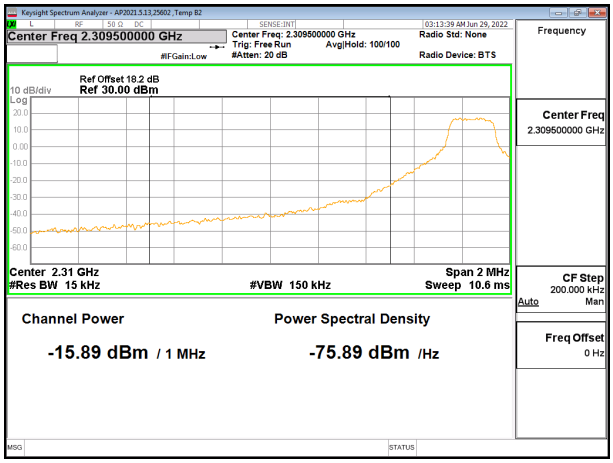


LTE B30 5MHz QPSK Low Channel RB25-0 (Low side)

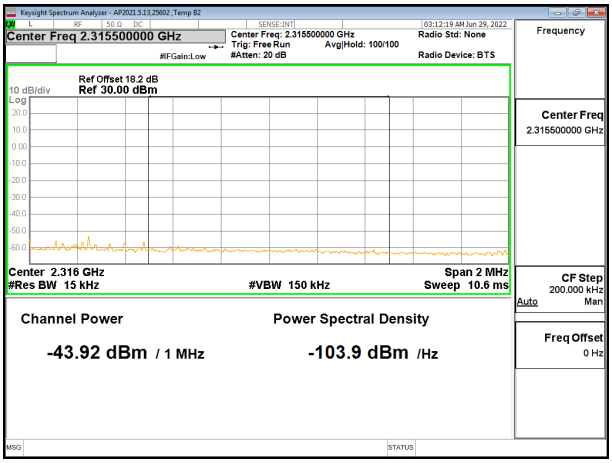


LTE B30 5MHz QPSK Low Channel RB25-0 (High side)

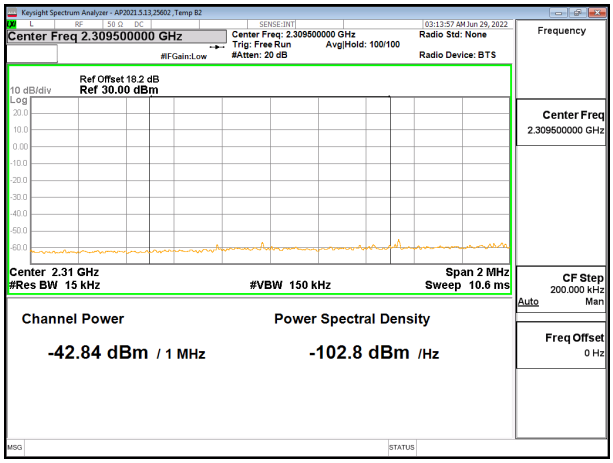
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



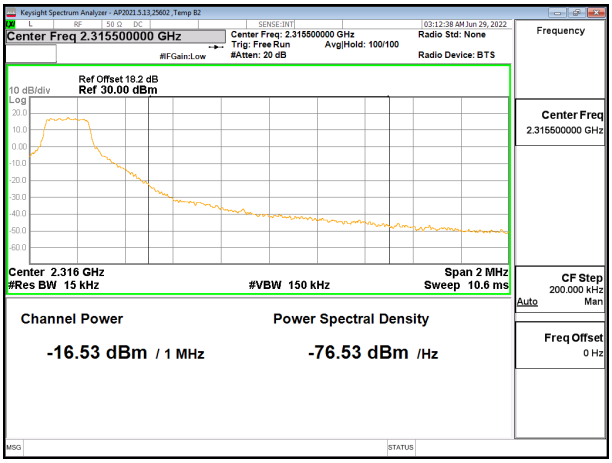
LTE B30 5MHz QPSK High Channel RB1-0 (Low side)



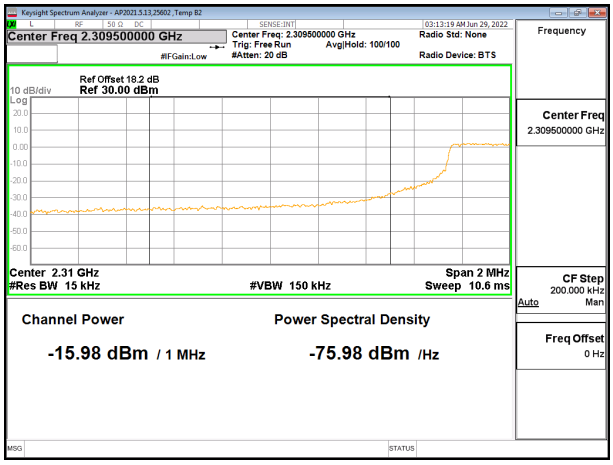
LTE B30 5MHz QPSK High Channel RB1-0 (High side)



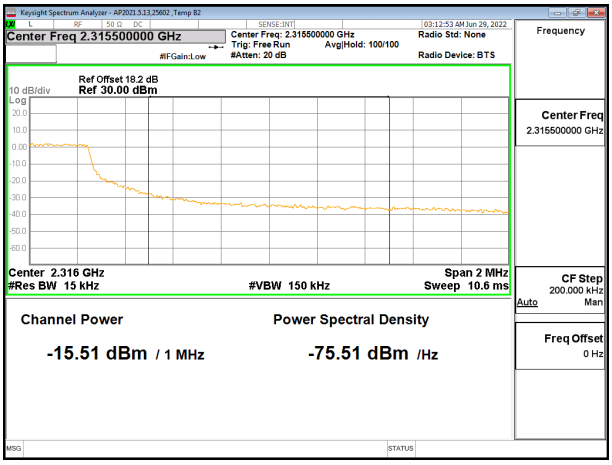
LTE B30 5MHz QPSK High Channel RB1-24 (Low side)



LTE B30 5MHz QPSK High Channel RB1-24 (High side)



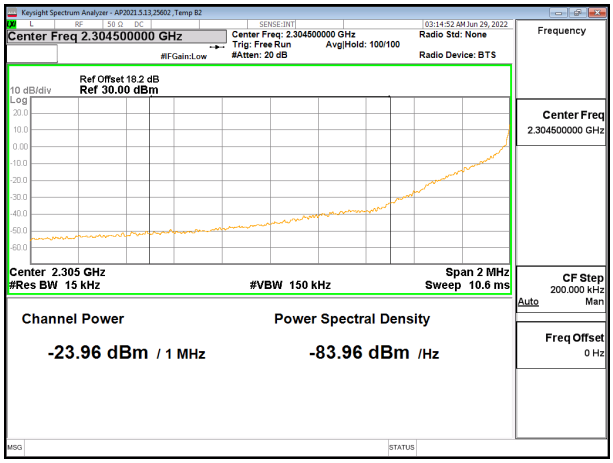
LTE B30 5MHz QPSK High Channel RB25-0 (Low side)



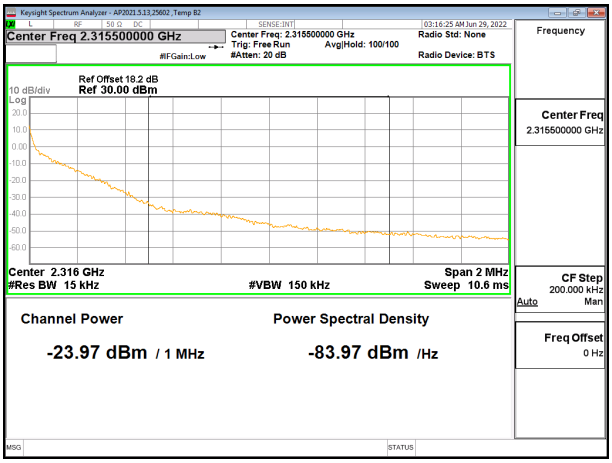
LTE B30 5MHz QPSK High Channel RB25-0 (High side)

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

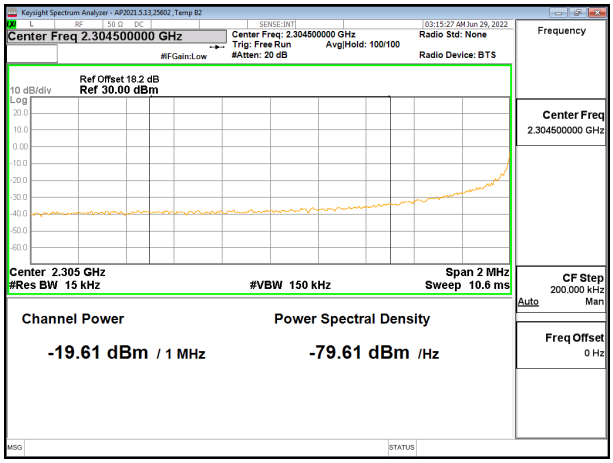
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



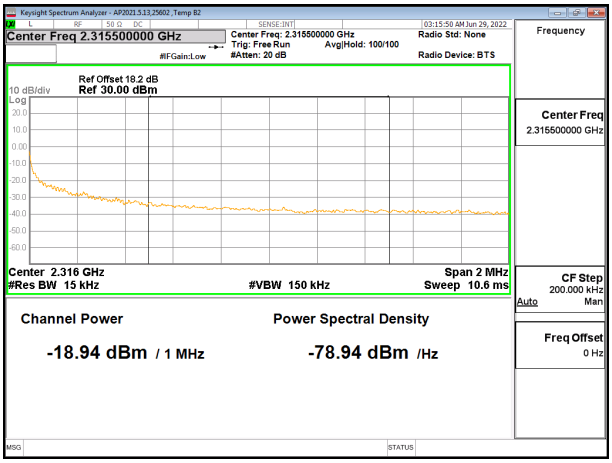
LTE B30 10MHz QPSK Middle Channel RB1-0



LTE B30 10MHz QPSK High Channel RB1-49



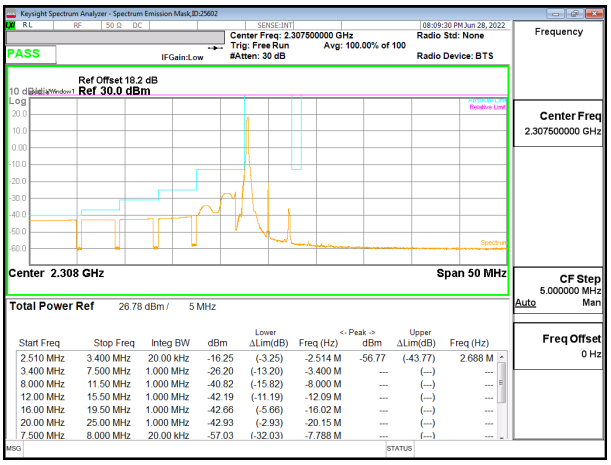
LTE B30 10MHz QPSK Middle Channel RB50-0 (Low side)



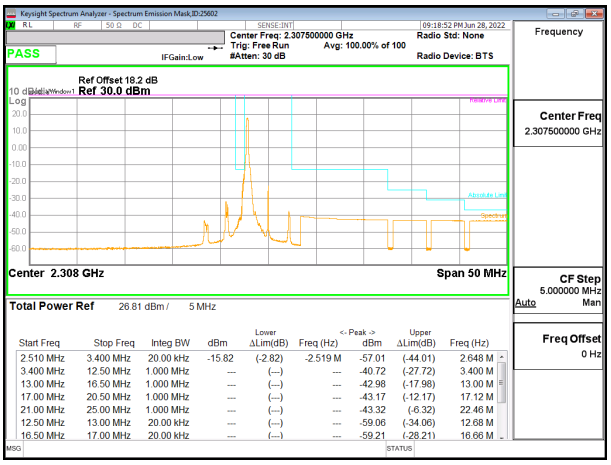
LTE B30 10MHz QPSK Middle Channel RB50-0 (High side)

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.

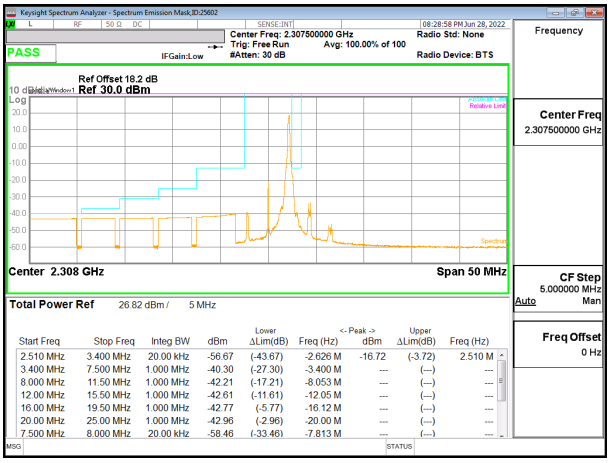
5G NR n30 EMISSION MASK



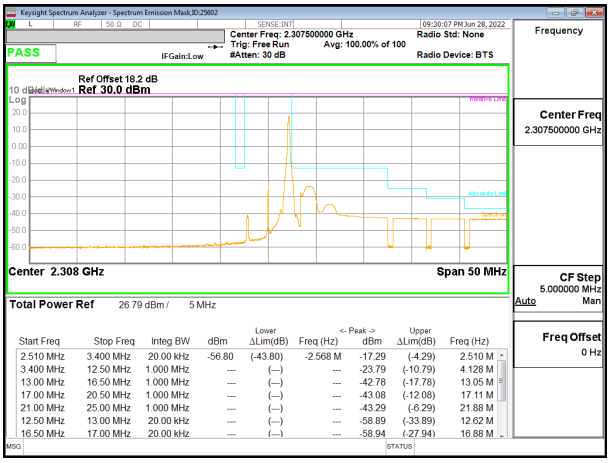
5G NR n30 5MHz BPSK Low Channel RB1-0 (Low side)



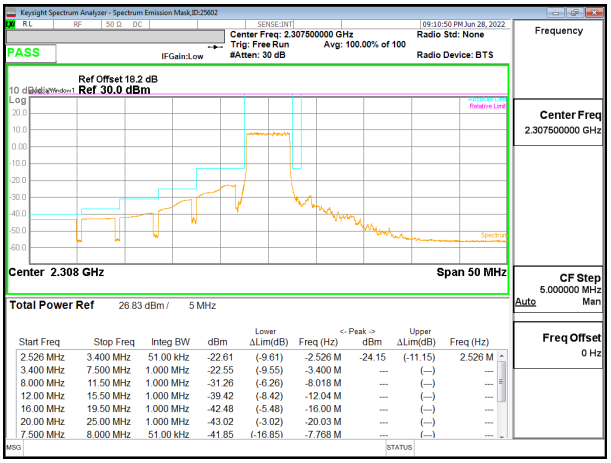
5G NR n30 5MHz BPSK Low Channel RB1-0 (High side)



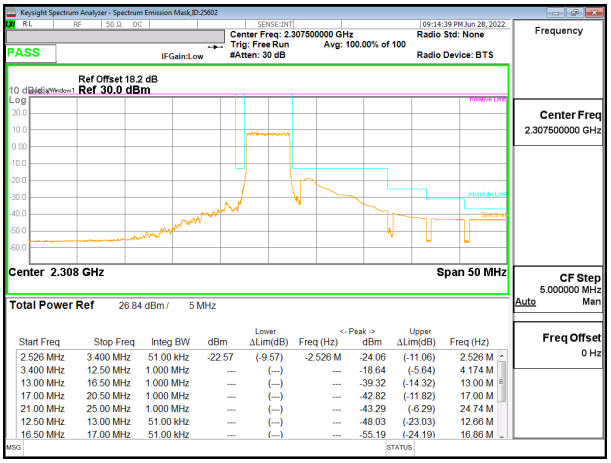
5G NR n30 5MHz BPSK Low Channel RB1-24 (Low side)



5G NR n30 5MHz BPSK Low Channel RB1-24 (High side)

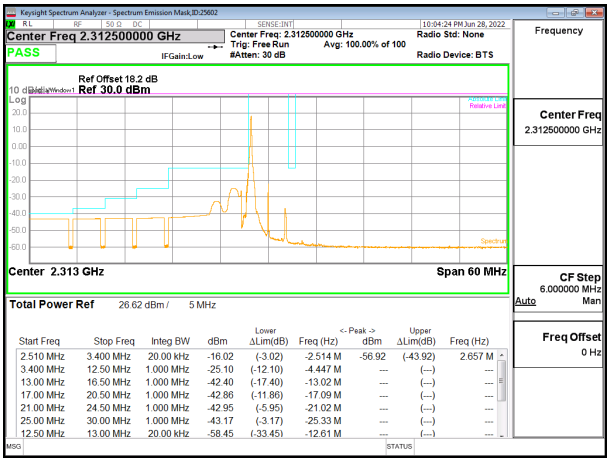


5G NR n30 5MHz BPSK Low Channel RB25-0 (Low side)

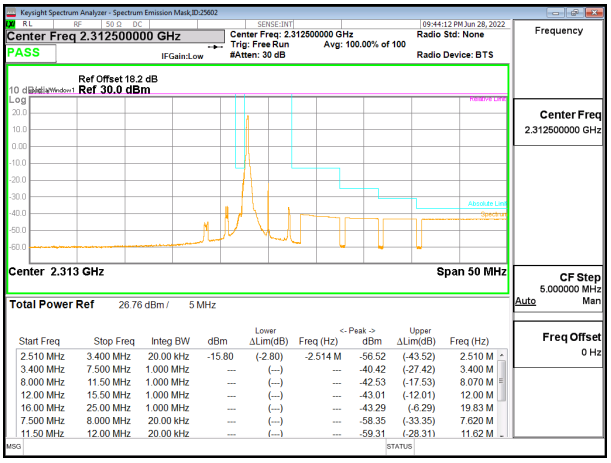


5G NR n30 5MHz BPSK Low Channel RB25-0 (High side)

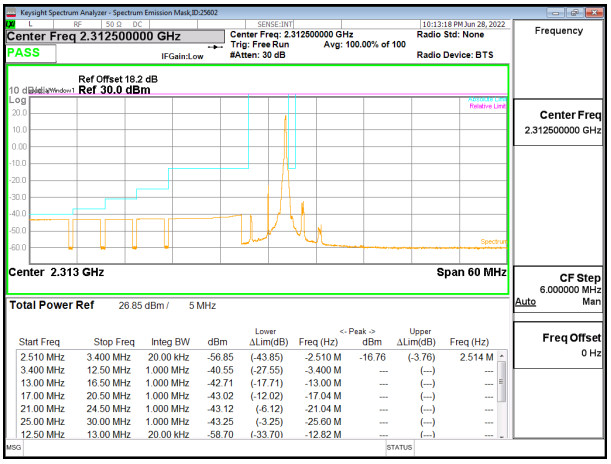
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



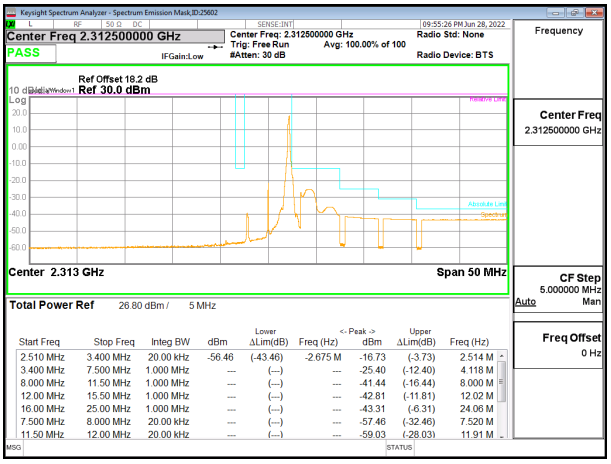
5G NR n30 5MHz BPSK High Channel RB1-0 (Low side)



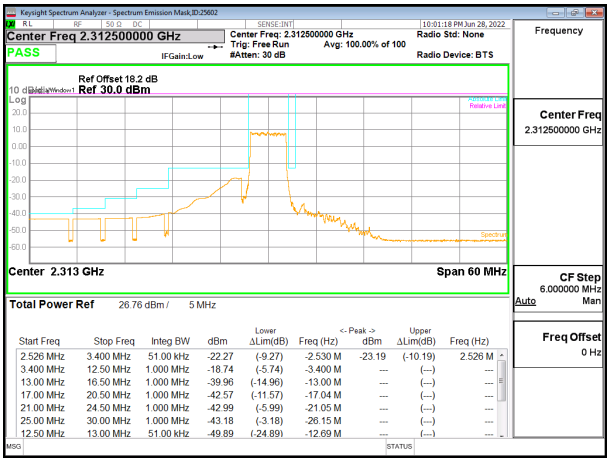
5G NR n30 5MHz BPSK High Channel RB1-0 (High side)



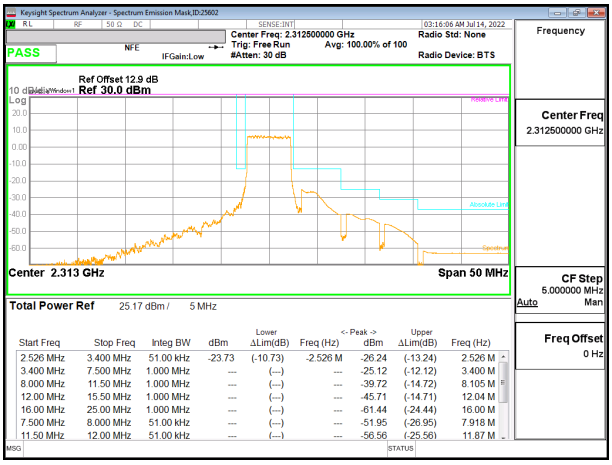
5G NR n30 5MHz BPSK High Channel RB1-24 (Low side)



5G NR n30 5MHz BPSK High Channel RB1-24 (High side)

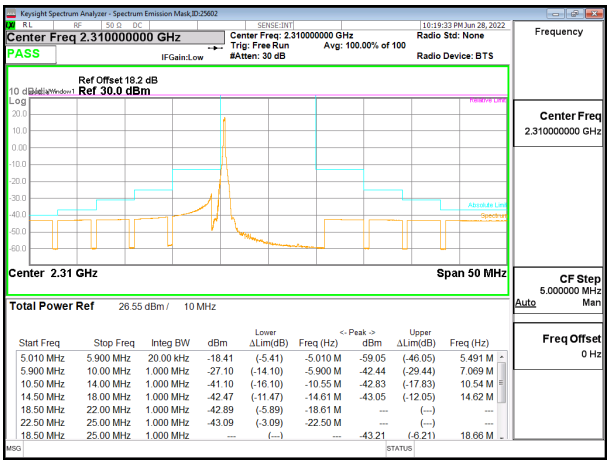


5G NR n30 5MHz BPSK High Channel RB25-0 (Low side)

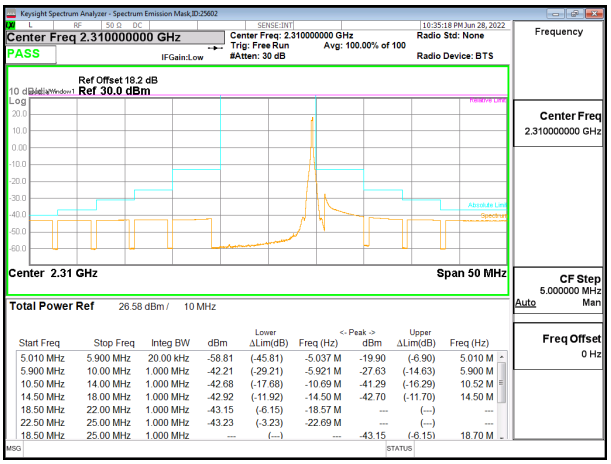


5G NR n30 5MHz BPSK High Channel RB25-0 (High side)

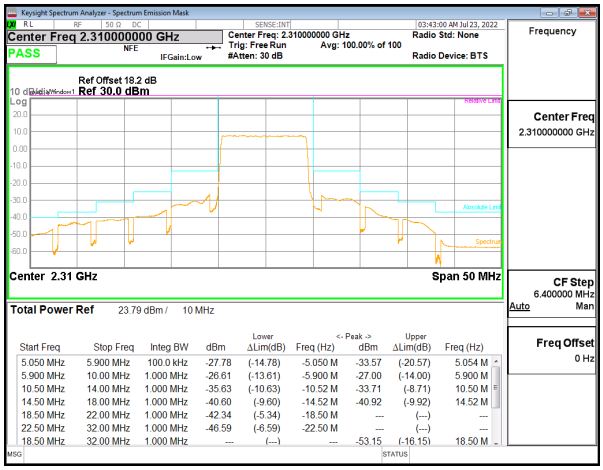
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



5G NR n30 10MHz BPSK Middle Channel RB1-0



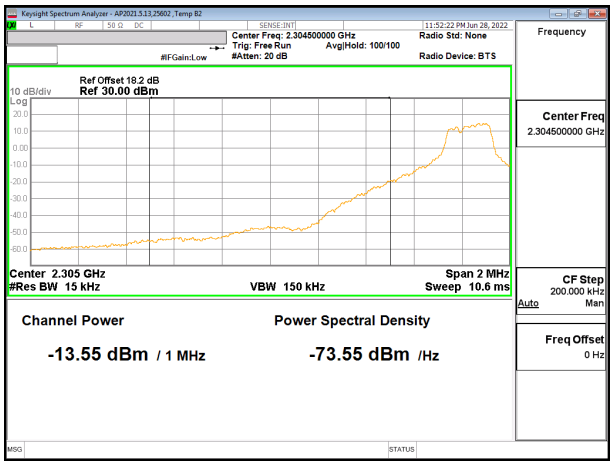
5G NR n30 10MHz BPSK Middle Channel RB1-51



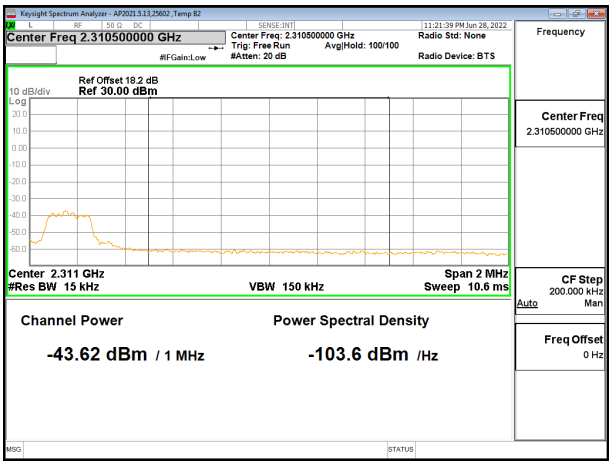
5G NR n30 10MHz BPSK Middle Channel RB50-0
ID:28774

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.

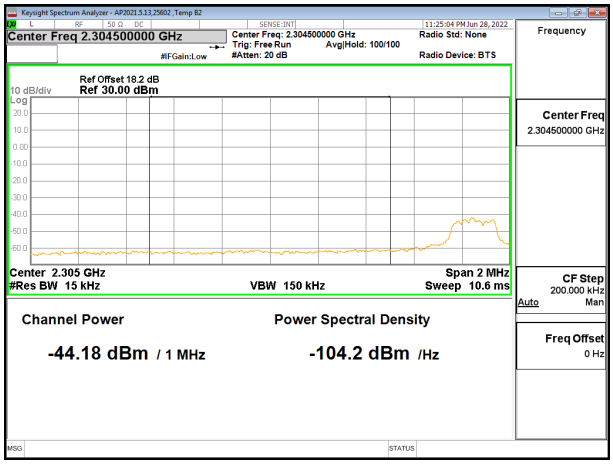
5G NR n30 ADJACENT CHANNEL POWER



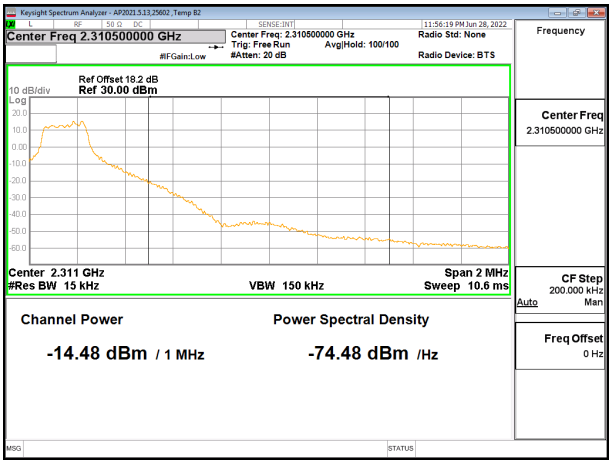
5G NR n30 5MHz BPSK Low Channel RB1-0 (Low side)



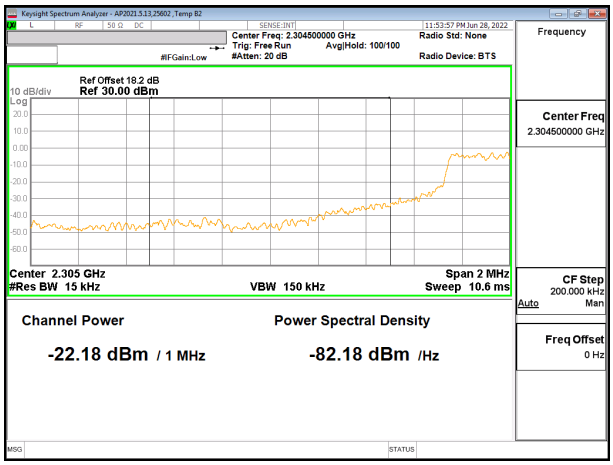
5G NR n30 5MHz BPSK Low Channel RB1-0 (High side)



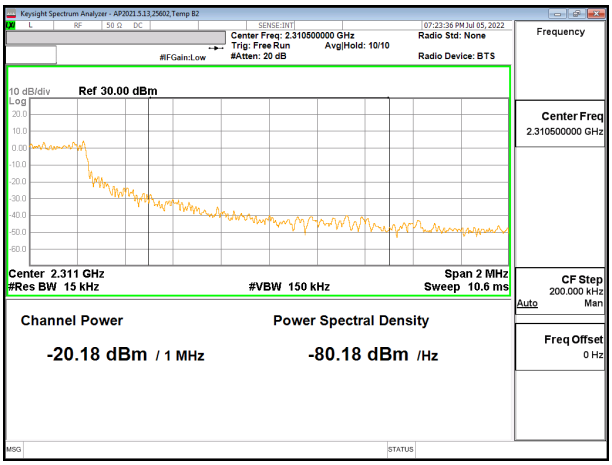
5G NR n30 5MHz BPSK Low Channel RB1-24 (Low side)



5G NR n30 5MHz BPSK Low Channel RB1-24 (High side)



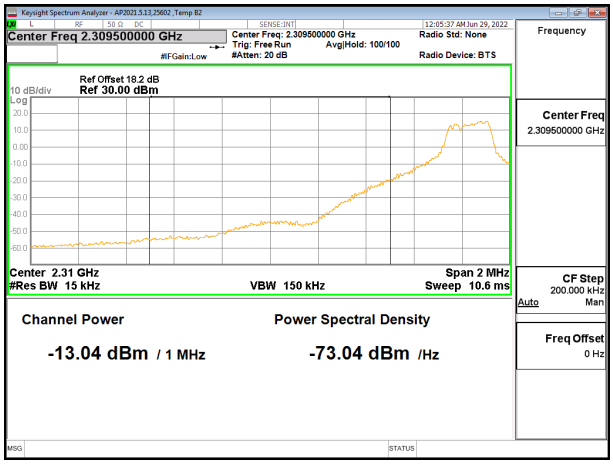
5G NR n30 5MHz BPSK Low Channel RB25-0 (Low side)



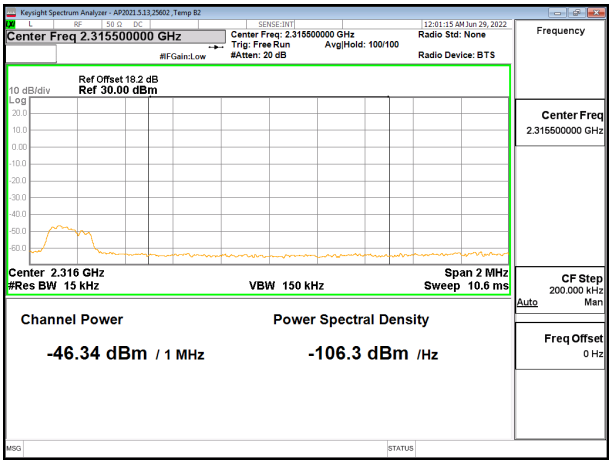
5G NR n30 5MHz BPSK Low Channel RB25-0 (High side)

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

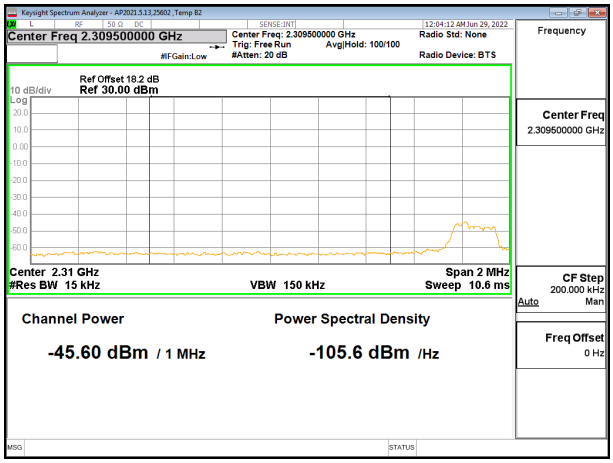
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



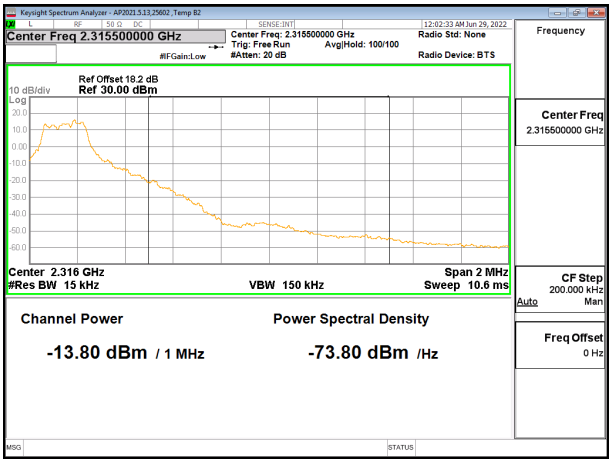
5G NR n30 5MHz BPSK High Channel RB1-0 (Low side)



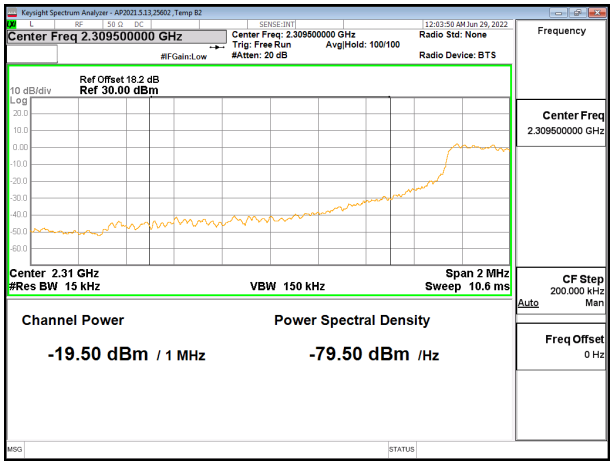
5G NR n30 5MHz BPSK High Channel RB1-0 (High side)



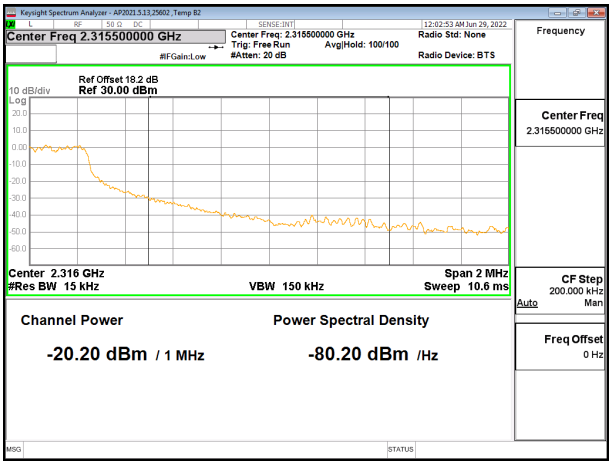
5G NR n30 5MHz BPSK High Channel RB1-24 (Low side)



5G NR n30 5MHz BPSK High Channel RB1-24 (High side)

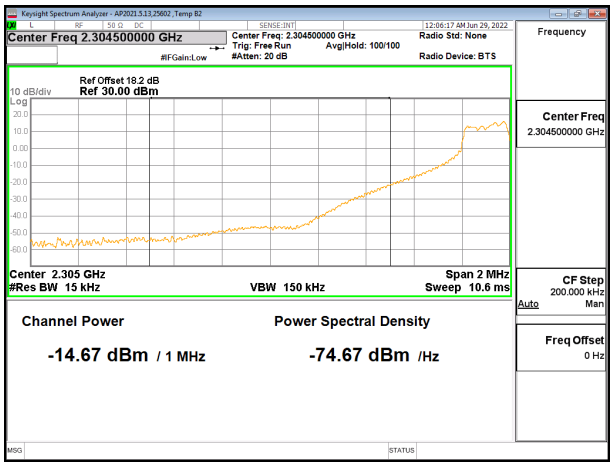


5G NR n30 5MHz BPSK High Channel RB25-0 (Low side)

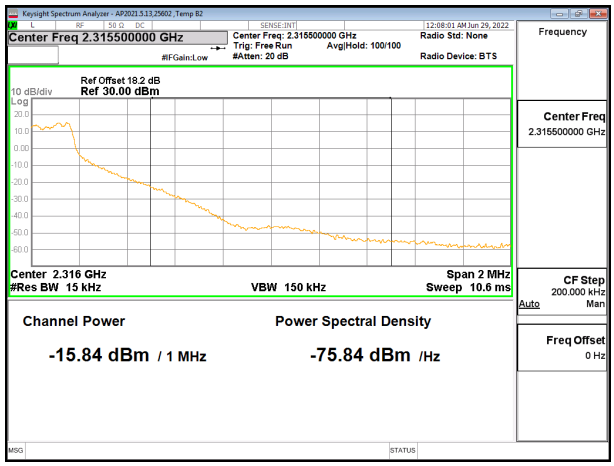


5G NR n30 5MHz BPSK High Channel RB25-0 (High side)

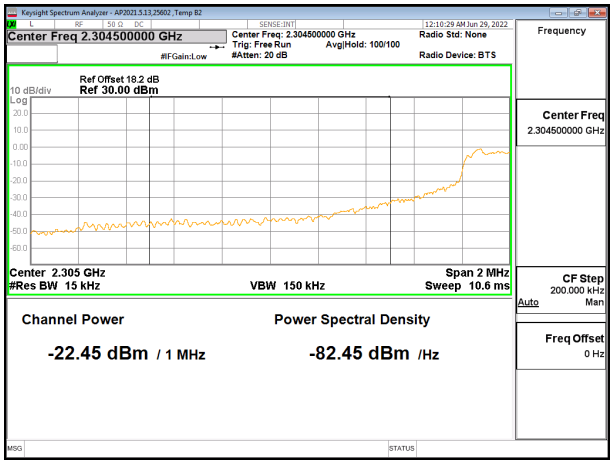
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



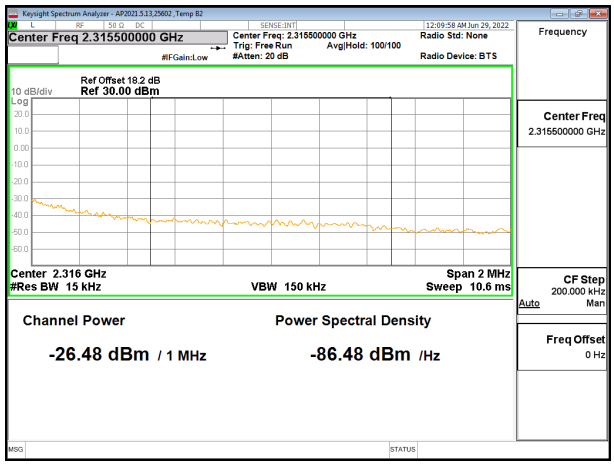
5G NR n30 10MHz BPSK Middle Channel RB1-0



5G NR n30 10MHz BPSK Middle Channel RB1-51



5G NR n30 10MHz BPSK Middle Channel RB50-0 (Low side)



5G NR n30 10MHz BPSK Middle Channel RB50-0 (High side)

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.

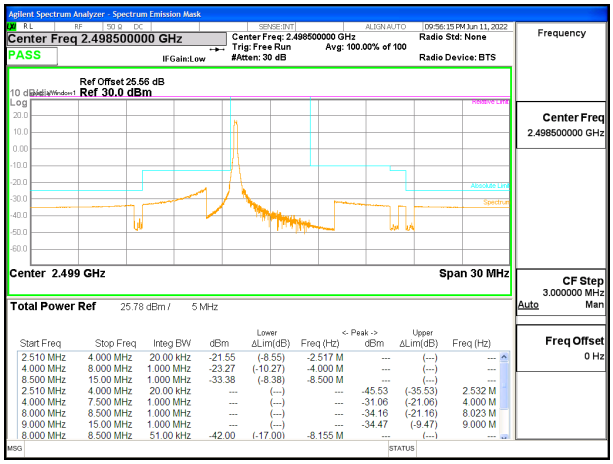
9.2.11. LTE BAND 41 AND 5G NR n41 EMISSION MASK

LIMITS

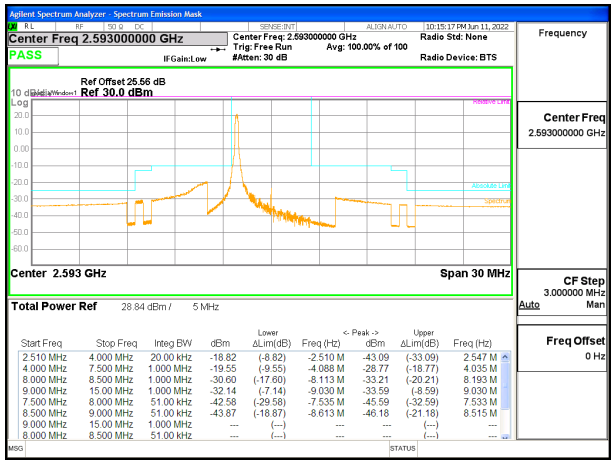
FCC: §27.53
(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

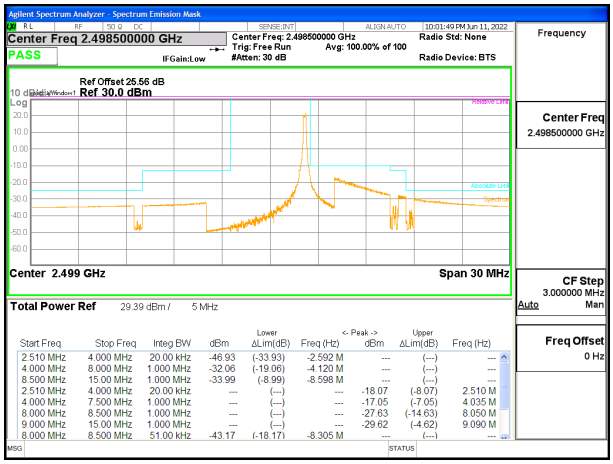
LTE BAND 41 EMISSION MASK (FCC)



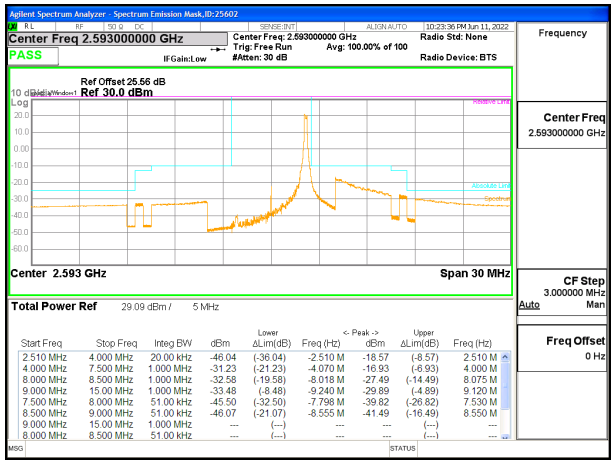
LTE B41 5MHz QPSK Low Channel RB1-0, ID:25602



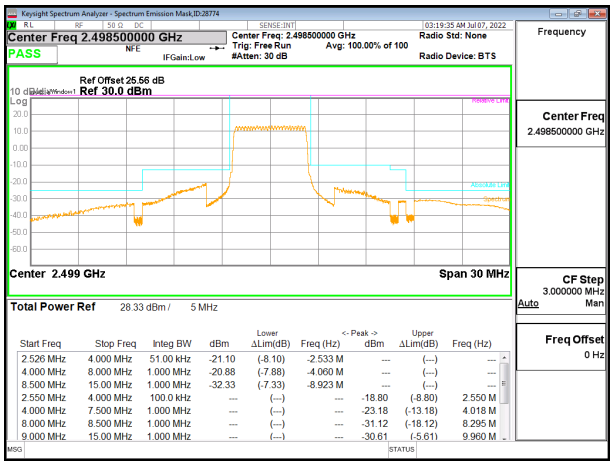
LTE B41 5MHz QPSK Middle Channel RB1-0, ID:25602



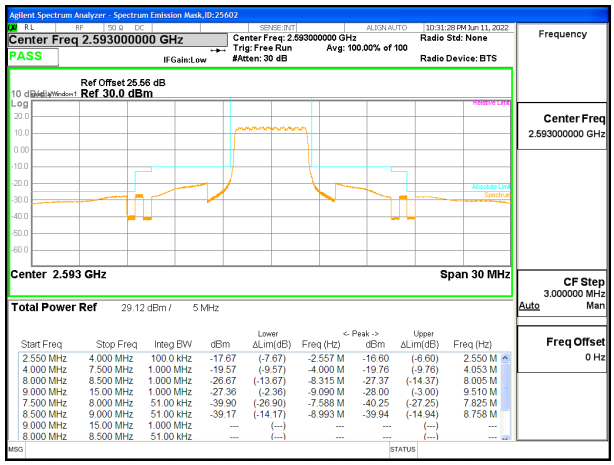
LTE B41 5MHz QPSK Low Channel RB1-24, ID:25602



LTE B41 5MHz QPSK Middle Channel RB1-24

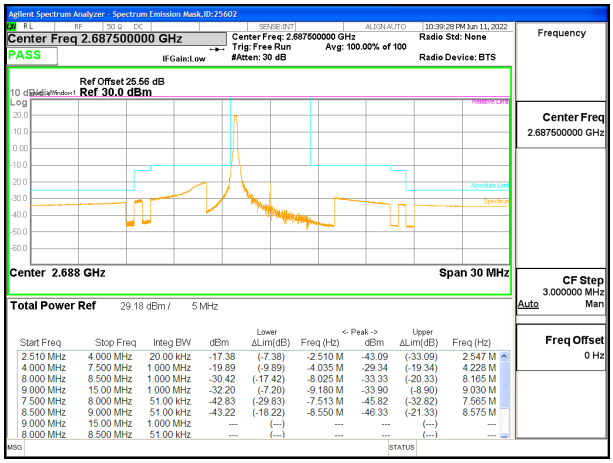


LTE B41 5MHz QPSK Low Channel RB25-0

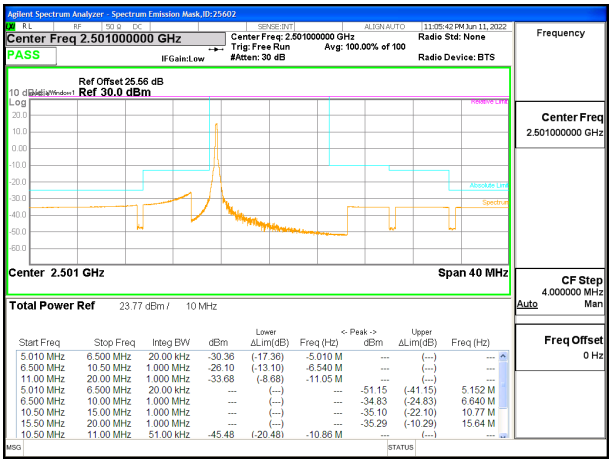


LTE B41 5MHz QPSK Middle Channel RB25-0

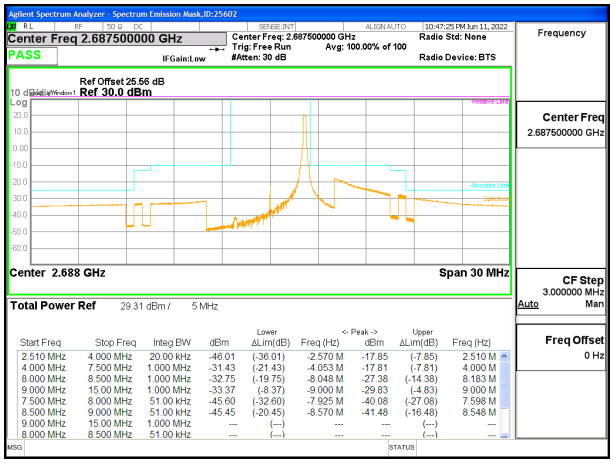
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



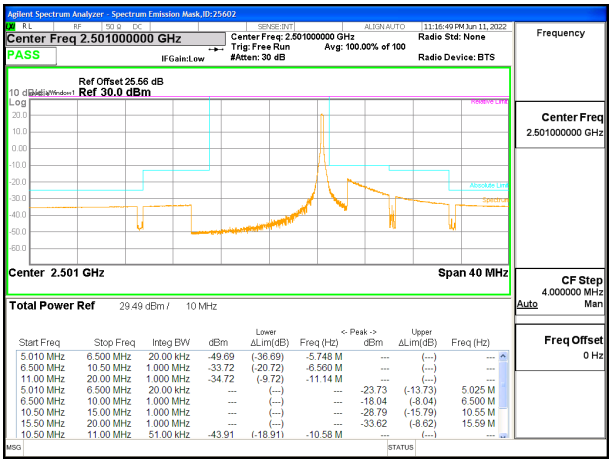
LTE B41 5MHz QPSK High Channel RB1-0



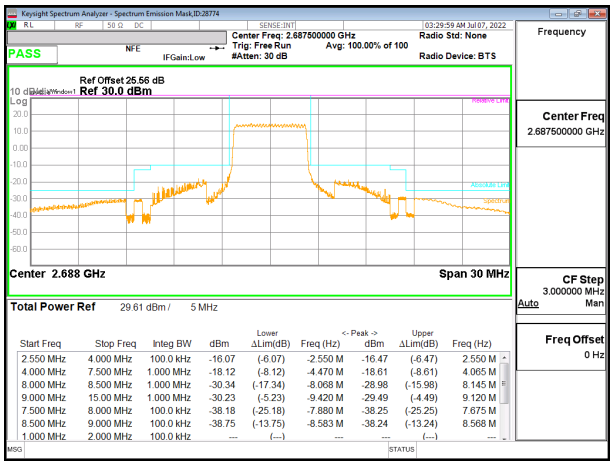
LTE B41 10MHz QPSK Low Channel RB1-0



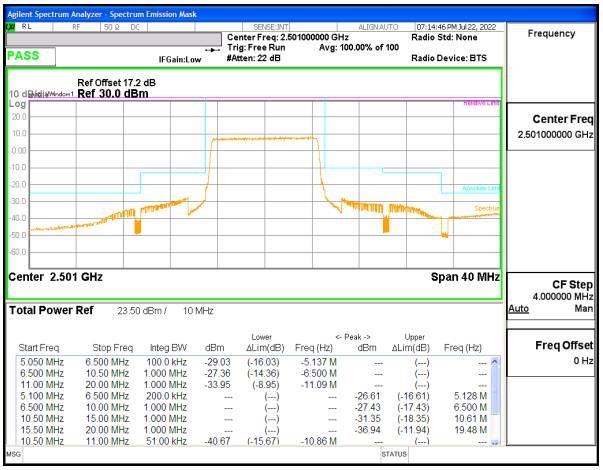
LTE B41 5MHz QPSK High Channel RB1-24



LTE B41 10MHz QPSK Low Channel RB1-49

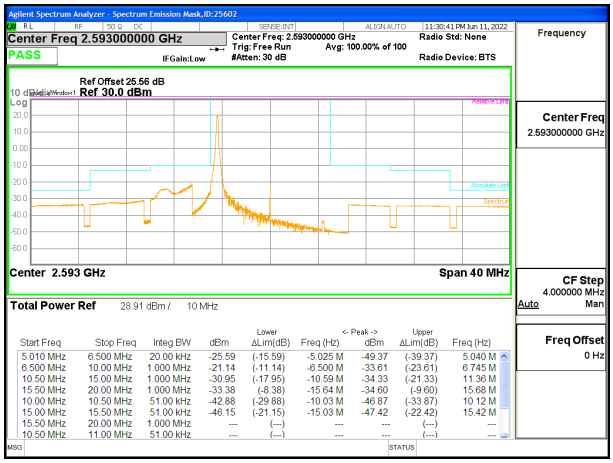


LTE B41 5MHz QPSK High Channel RB25-0

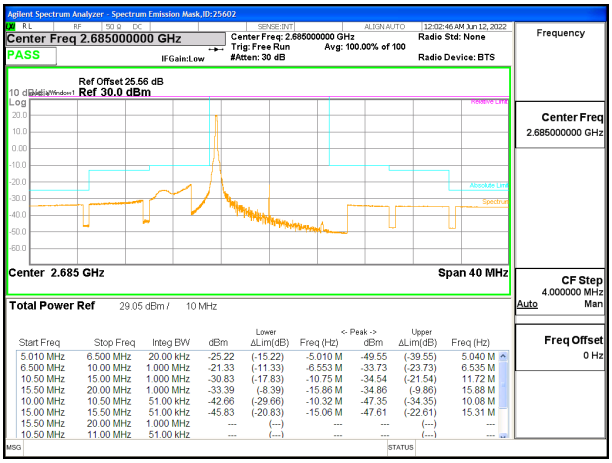


LTE B41 10MHz QPSK Low Channel RB50-0, ID:25780

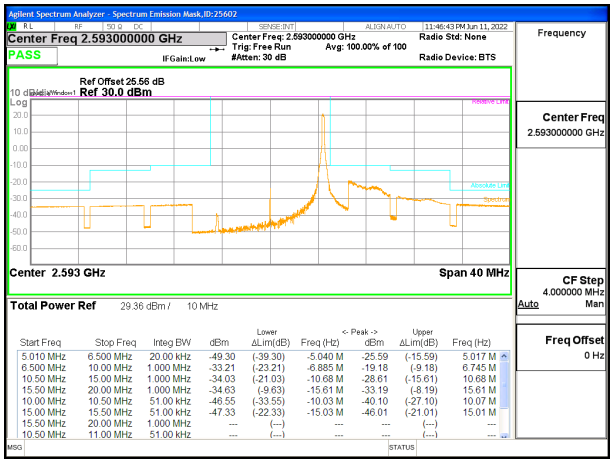
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000
FORM NO: CCSUP4031B
FAX: (510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



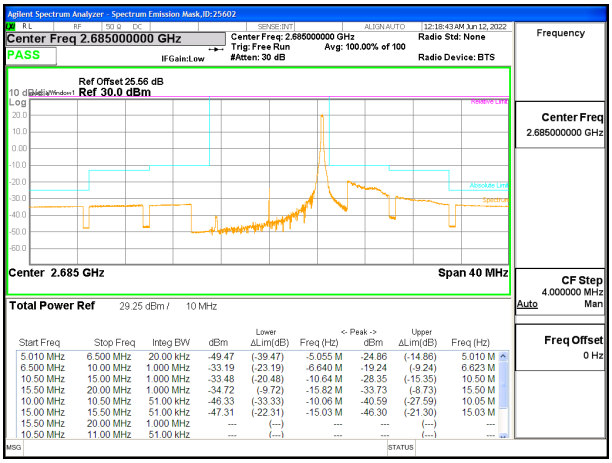
LTE B41 10MHz QPSK Middle Channel RB1-0



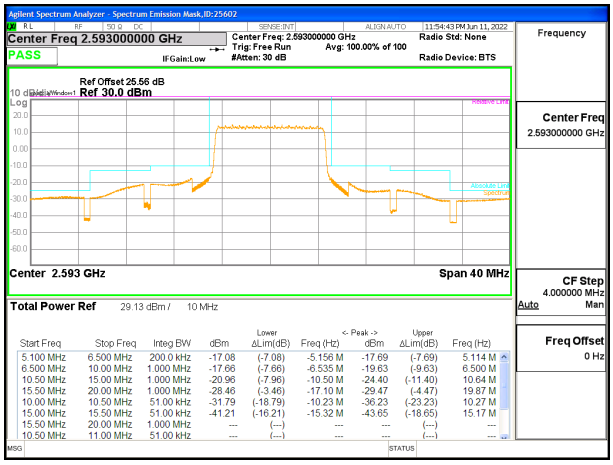
LTE B41 10MHz QPSK High Channel RB1-0



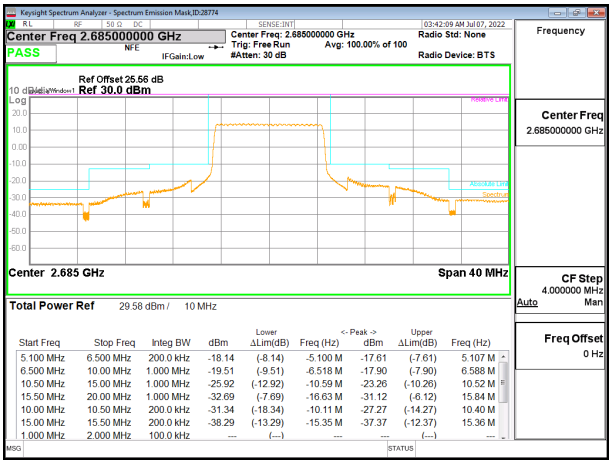
LTE B41 10MHz QPSK Middle Channel RB1-49



LTE B41 10MHz QPSK High Channel RB1-49

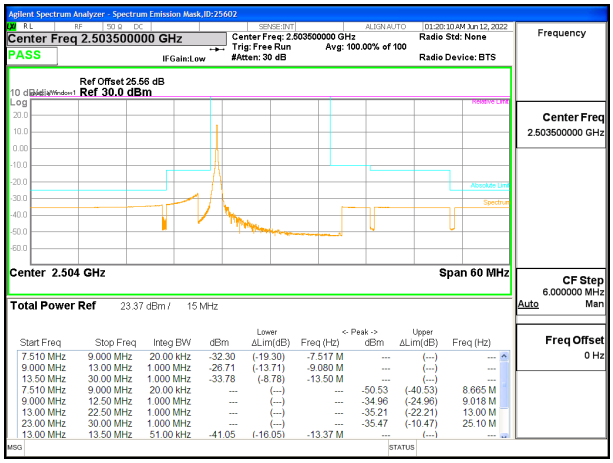


LTE B41 10MHz QPSK Middle Channel RB50-0

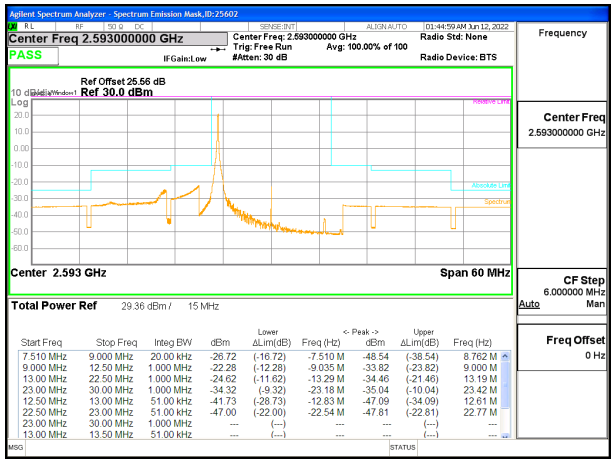


LTE B41 10MHz QPSK High Channel RB50-0

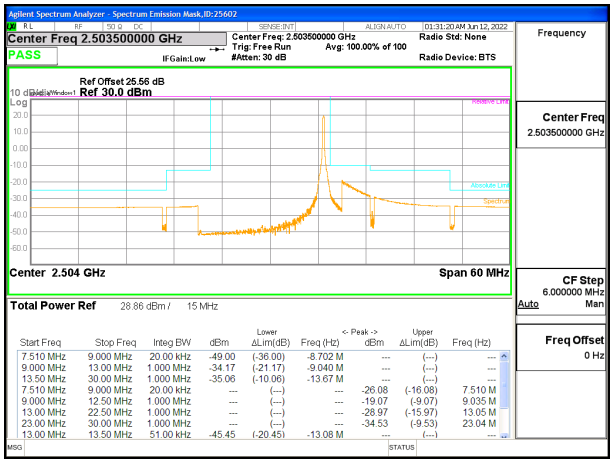
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



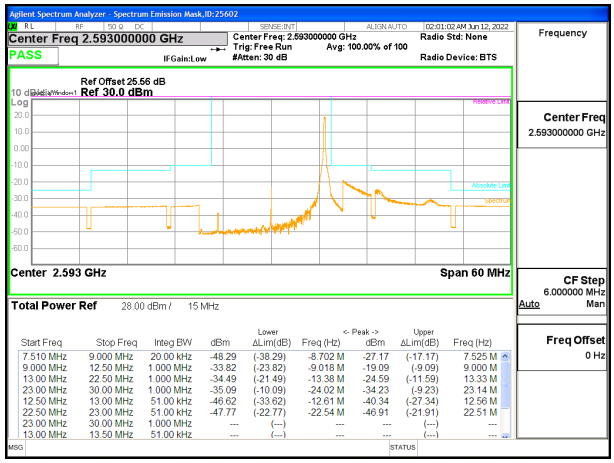
LTE B41 15MHz QPSK Low Channel RB1-0



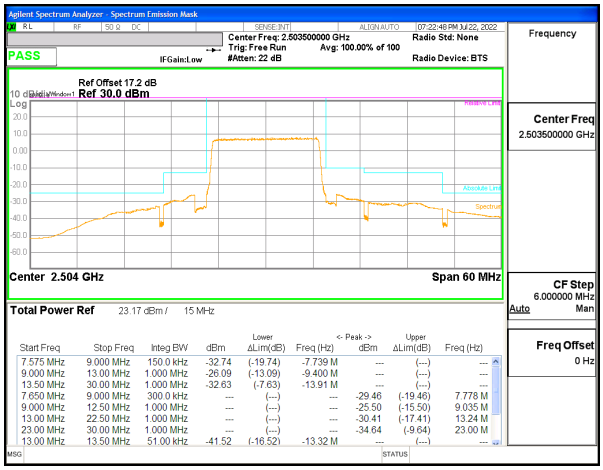
LTE B41 15MHz QPSK Middle Channel RB1-0



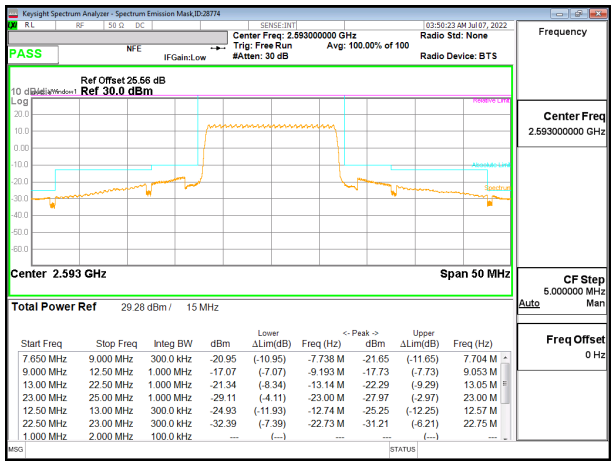
LTE B41 15MHz QPSK Low Channel RB1-74



LTE B41 15MHz QPSK Middle Channel RB1-74

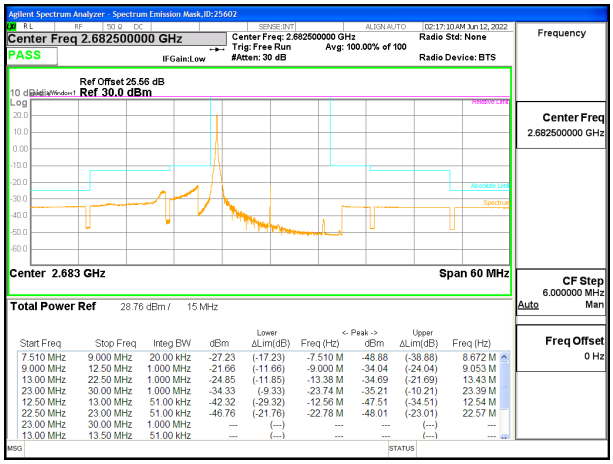


LTE B41 15MHz QPSK Low Channel RB75-0

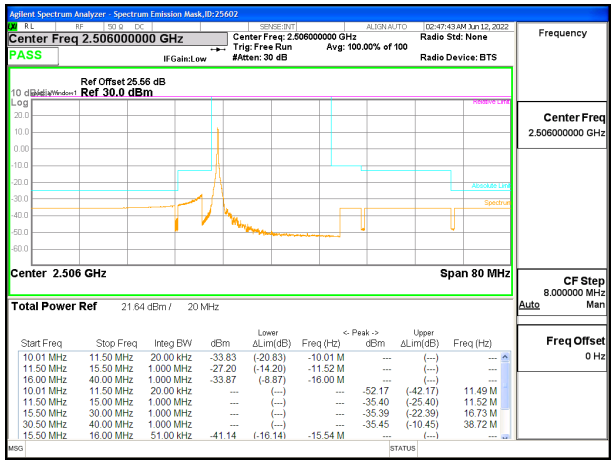


LTE B41 15MHz QPSK Middle Channel RB75-0

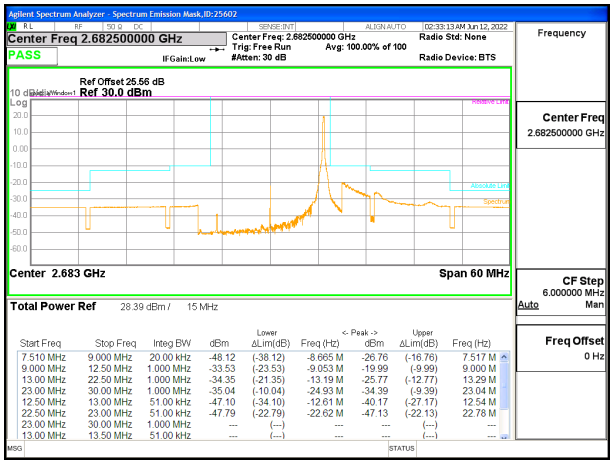
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



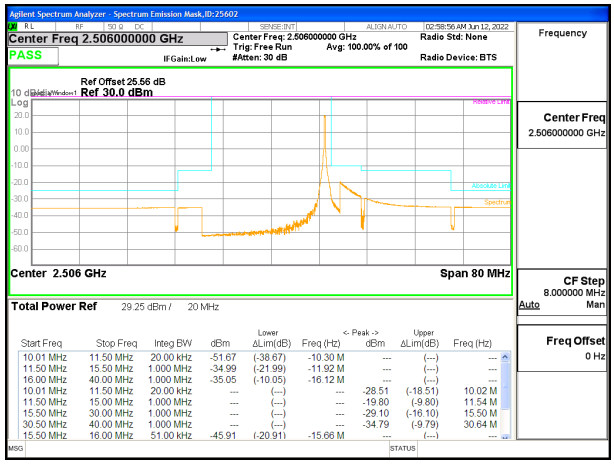
LTE B41 15MHz QPSK High Channel RB1-0



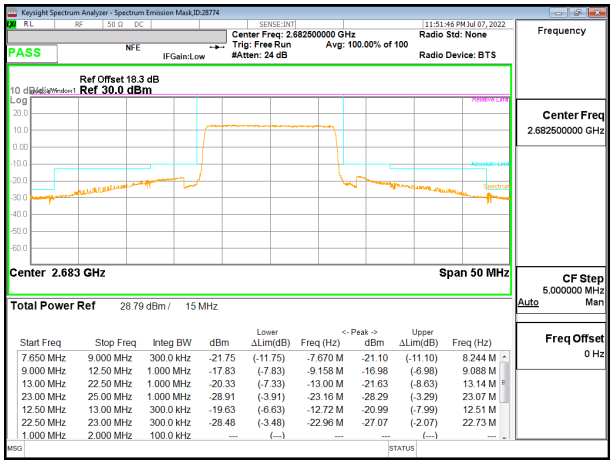
LTE B41 20MHz QPSK Low Channel RB1-0



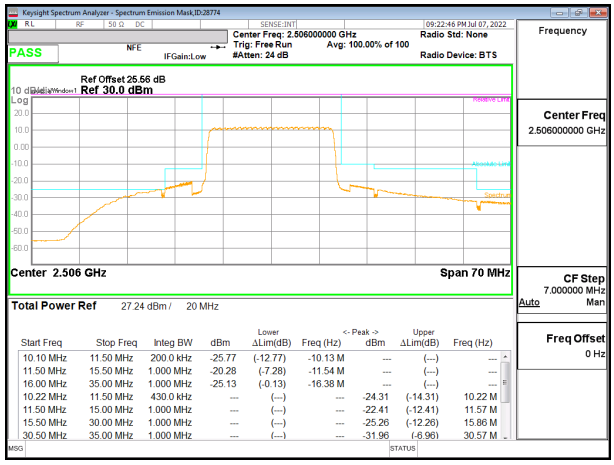
LTE B41 15MHz QPSK High Channel RB1-74



LTE B41 20MHz QPSK Low Channel RB1-99

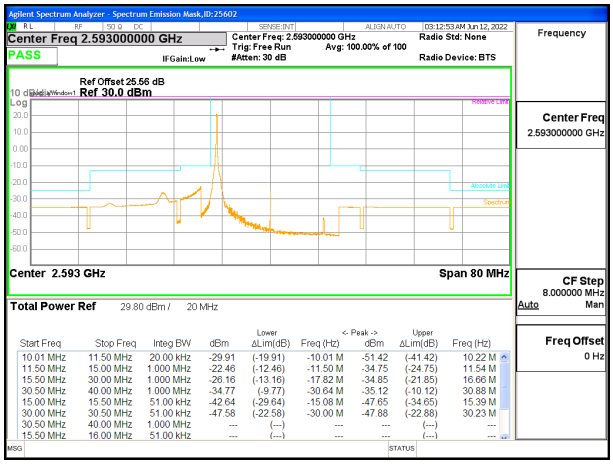


LTE B41 15MHz QPSK High Channel RB75-0

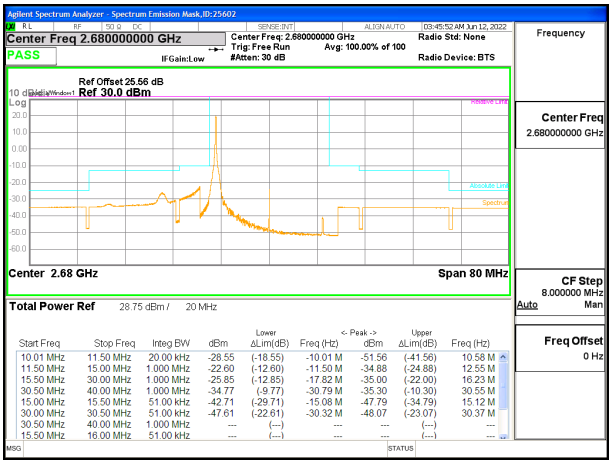


LTE B41 20MHz QPSK Low Channel RB100-0

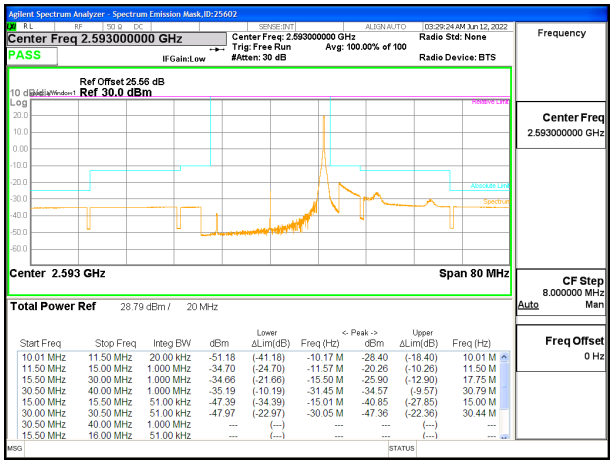
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



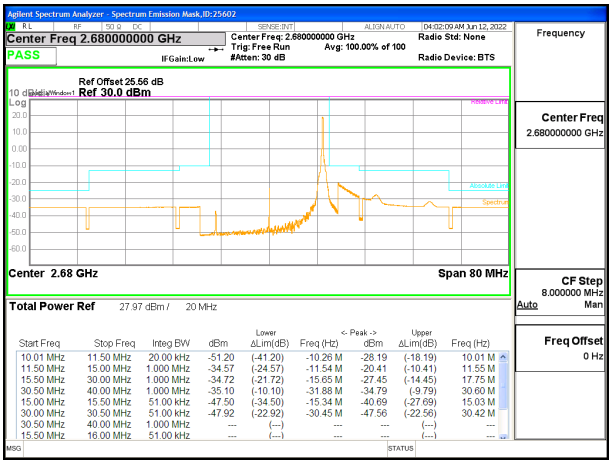
LTE B41 20MHz QPSK Middle Channel RB1-0



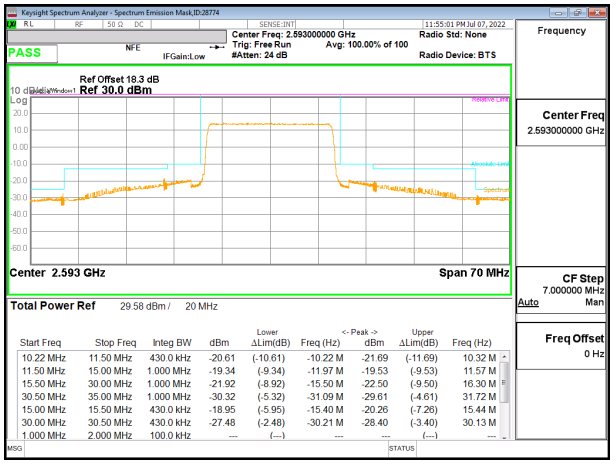
LTE B41 20MHz QPSK High Channel RB1-0



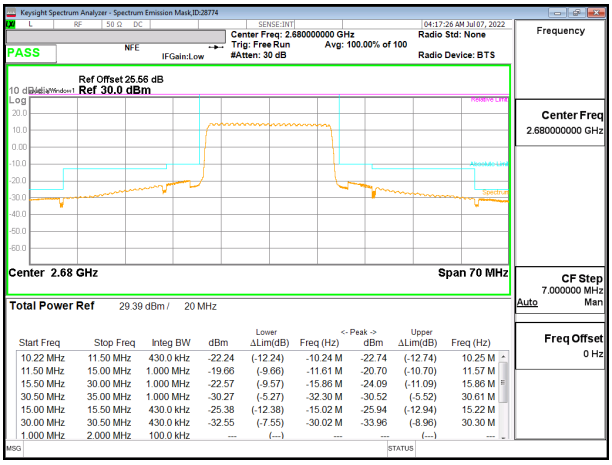
LTE B41 20MHz QPSK Middle Channel RB1-99



LTE B41 20MHz QPSK High Channel RB1-99



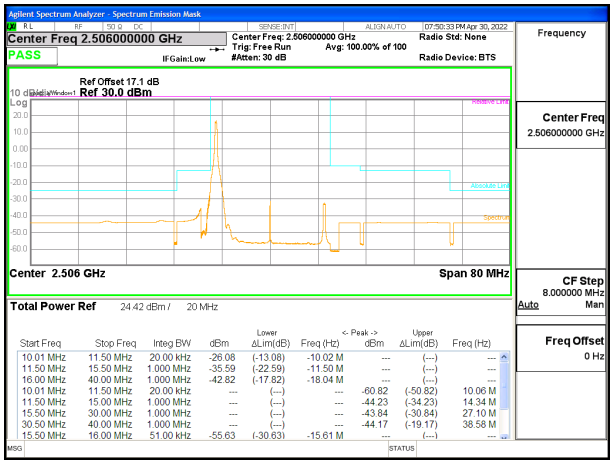
LTE B41 20MHz QPSK Middle Channel RB100-0



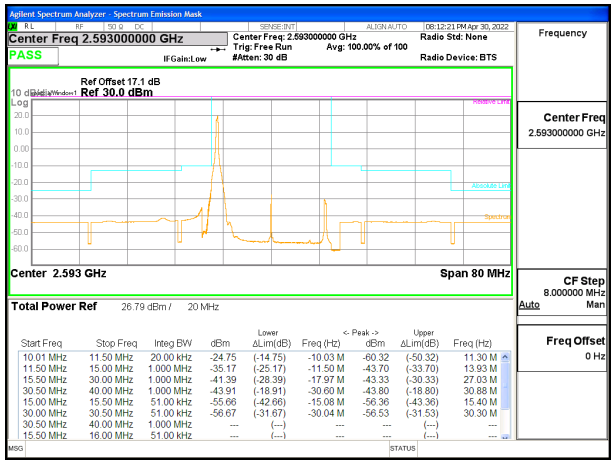
LTE B41 20MHz QPSK High Channel RB100-0

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

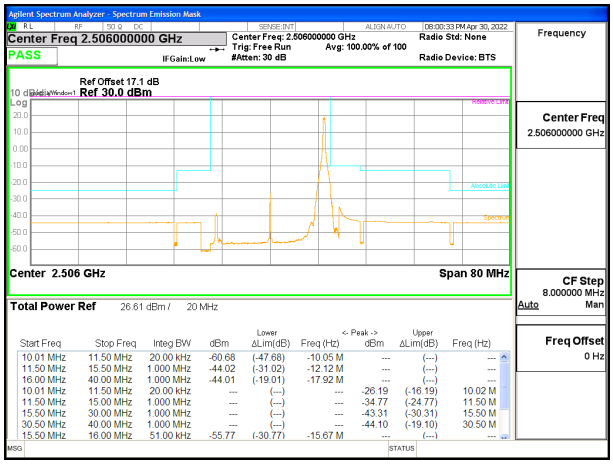
5G NR n41 EMISSION MASK (FCC)



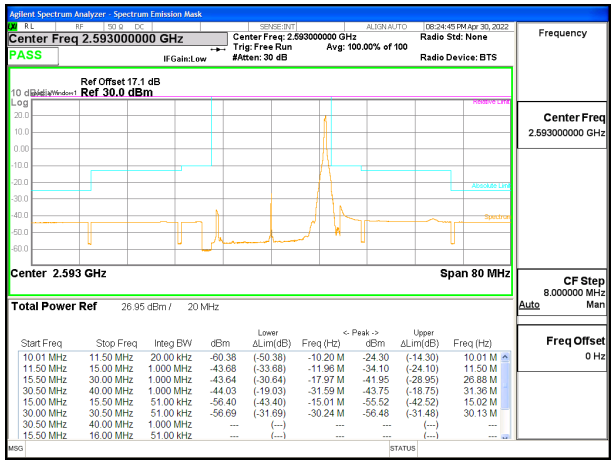
5G NR n41 20MHz BPSK Low Channel RB1-0, ID:25780



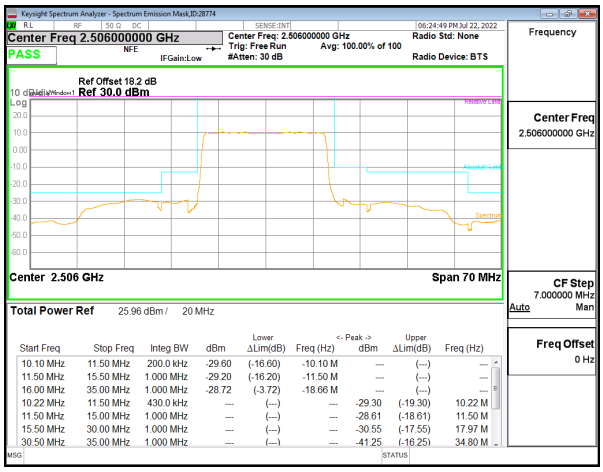
5G NR n41 20MHz BPSK Middle Channel RB1-0, ID:25780



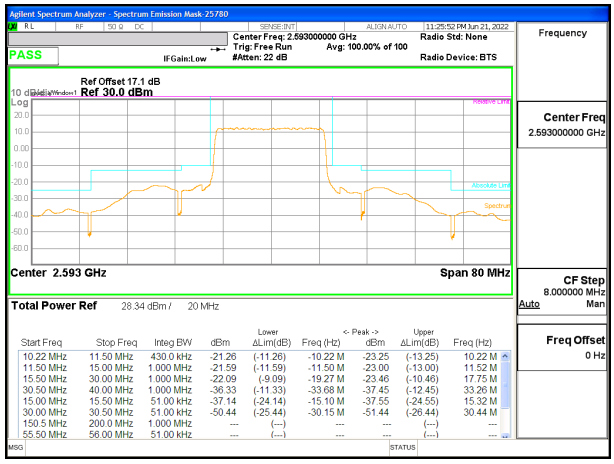
5G NR n41 20MHz BPSK Low Channel RB1-50, ID:25780



5G NR n41 20MHz BPSK Middle Channel RB1-50, ID:25780

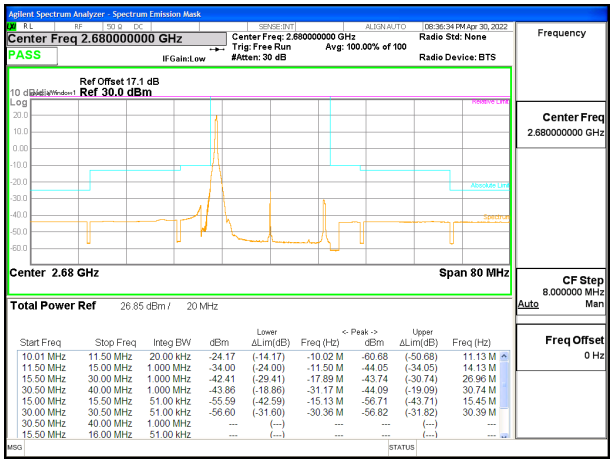


5G NR n41 20MHz BPSK Low Channel RB50-0, ID:28774

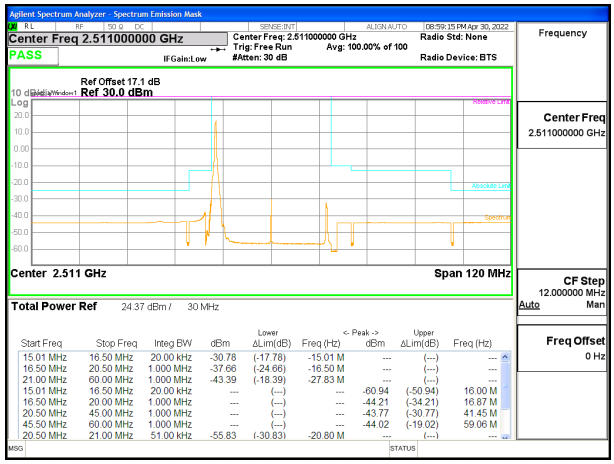


5G NR n41 20MHz BPSK Middle Channel RB50-0

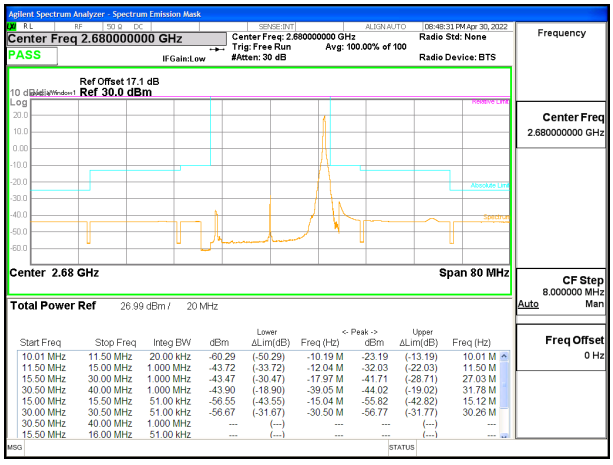
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



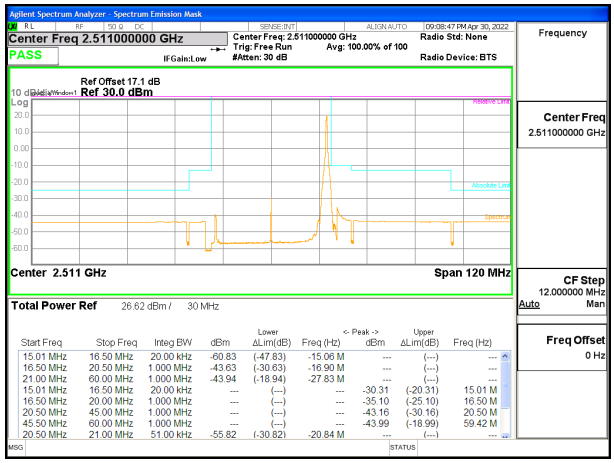
5G NR n41 20MHz BPSK High Channel RB1-0, ID:25780



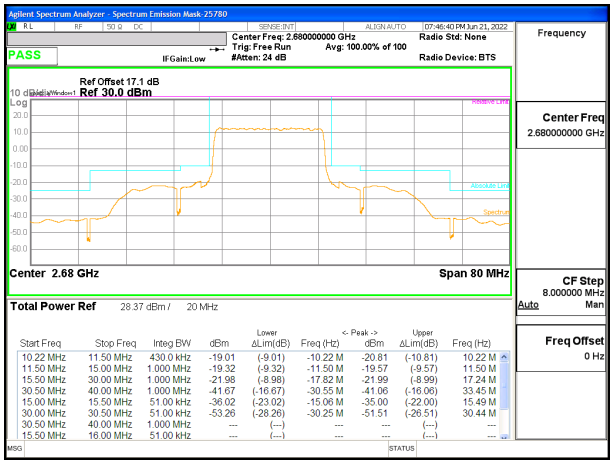
5G NR n41 30MHz BPSK Low Channel RB1-0, ID:25780



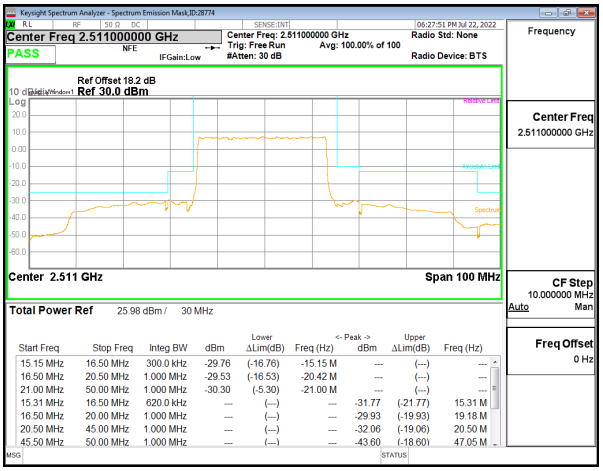
5G NR n41 20MHz BPSK High Channel RB1-50, ID:25780



5G NR n41 30MHz BPSK Low Channel RB1-77, ID:25780



5G NR n41 20MHz BPSK High Channel RB50-0



5G NR n41 30MHz BPSK Low Channel RB75-0
ID:28774

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