15MHz	QPSK Low channel FRB	QPSK Low channel 1RB
	QPSK High channel FRB	QPSK High channel 1RB
	16QAM Low channel FRB	16QAM Low channel 1RB
	16QAM High channel FRB	16QAM High channel 1RB

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10MHz	QPSK Low channel FRB	QPSK Low channel 1RB
	QPSK High channel FRB	QPSK High channel 1RB
	16QAM Low channel FRB	16QAM Low channel 1RB
	16QAM High channel FRB	16QAM High channel 1RB

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5MHz	QPSK Low channel FRB	QPSK Low channel 1RB
	QPSK High channel FRB	QPSK High channel 1RB
	16QAM Low channel FRB	16QAM Low channel 1RB
	16QAM High channel FRB	16QAM High channel 1RB

3MHz	
QPSK Low channel FRB	QPSK Low channel 1RB
QPSK High channel FRB	QPSK High channel 1RB
16QAM Low channel FRB	16QAM Low channel 1RB
16QAM High channel FRB	16QAM High channel 1RB

1.4MHz	QPSK Low channel FRB	QPSK Low channel 1RB
	QPSK High channel FRB	QPSK High channel 1RB
	16QAM Low channel FRB	16QAM Low channel 1RB
	16QAM High channel FRB	16QAM High channel 1RB

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8.4.2. EMISSION MASK RESULT

LTE Band 41

20 MHz QPSK FRB	 Low channel
	 Mid channel
	 High channel

20 MHz 16QAM FRB	 Low channel
	 Mid channel
	 High channel

	 Low channel
15 MHz QPSK FRB	 Mid channel
	 High channel

	 Low channel
15 MHz **16QAM** **FRB**	 Mid channel
	 High channel

10 MHz QPSK FRB	Low channel
	Mid channel
	High channel

10 MHz

16QAM

FRB

Low channel

Mid channel

High channel

5 MHz QPSK FRB	Low channel
	Mid channel
	High channel
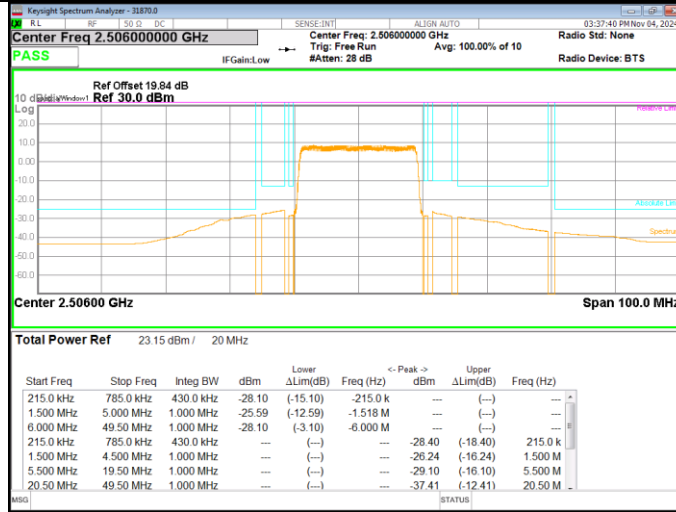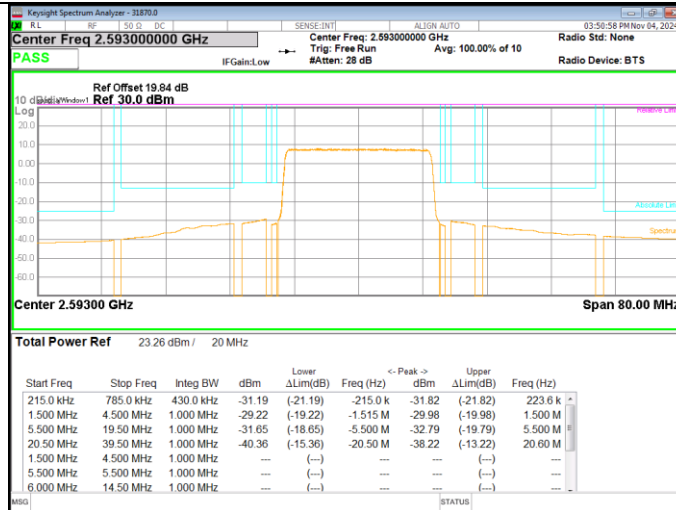
5 MHz 16QAM FRB	 Low channel
	 Mid channel
	 High channel
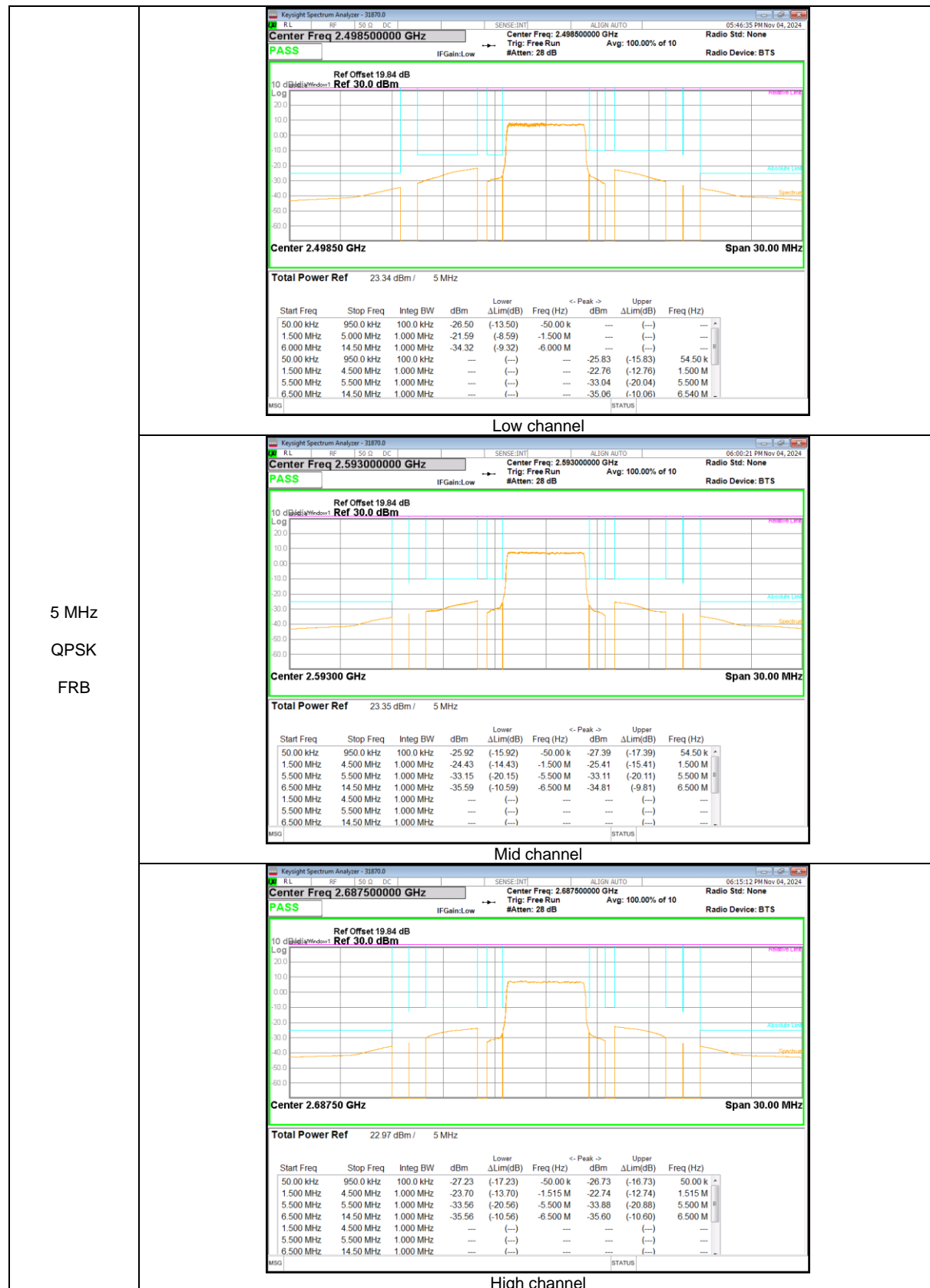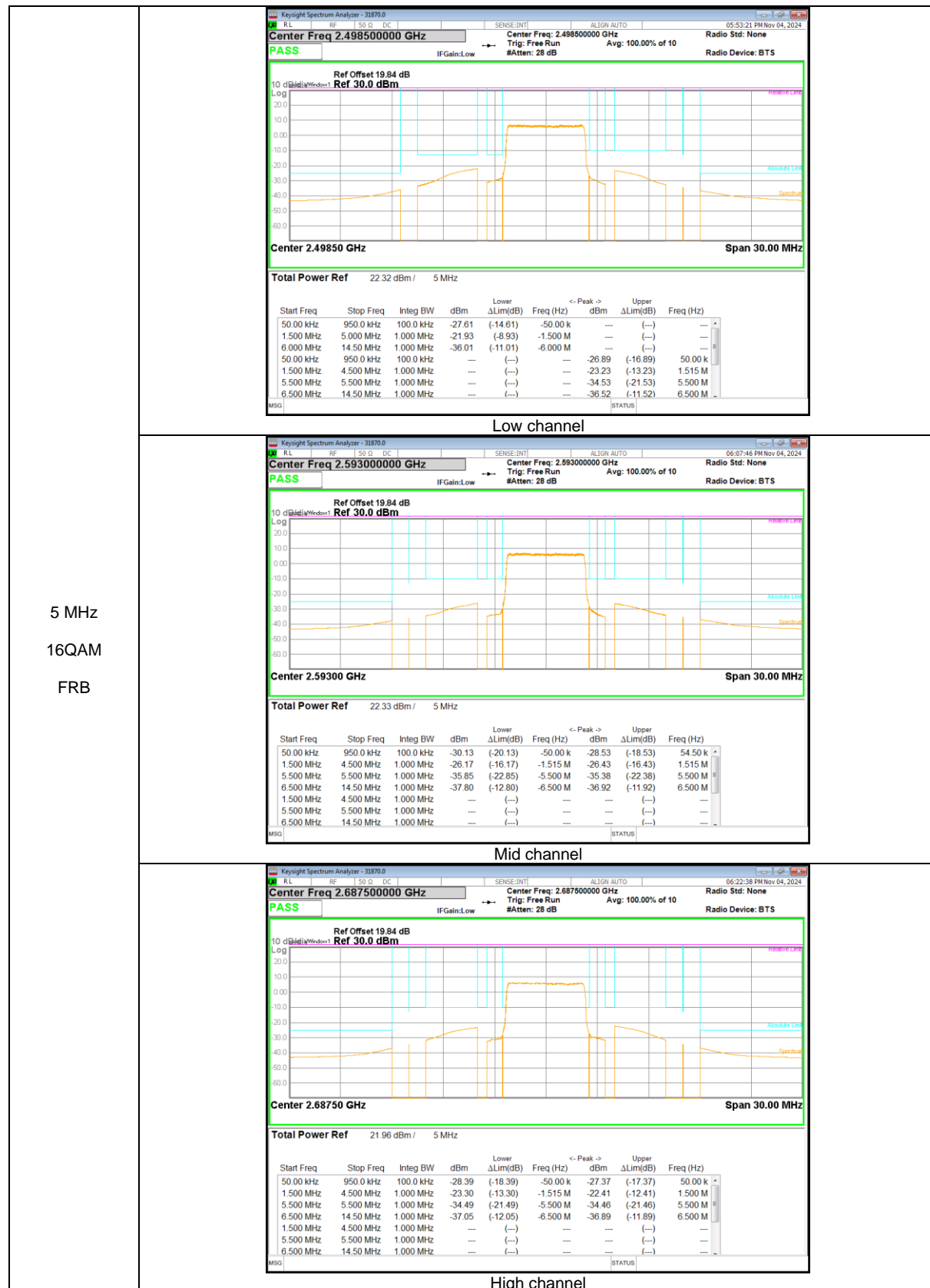
LTE Band 41_1 RB (Worst Case)

5 MHz QPSK 1RB Offset 0	 Low channel	
5 MHz QPSK 1RB Offset 24	 Low channel	

5 MHz QPSK 1RB Offset 0	 Mid channel
5 MHz QPSK 1RB Offset 24	 Mid channel

5 MHz 16QAM 1RB Offset 0	 High channel	
5 MHz 16QAM 1RB Offset 24	 High channel	
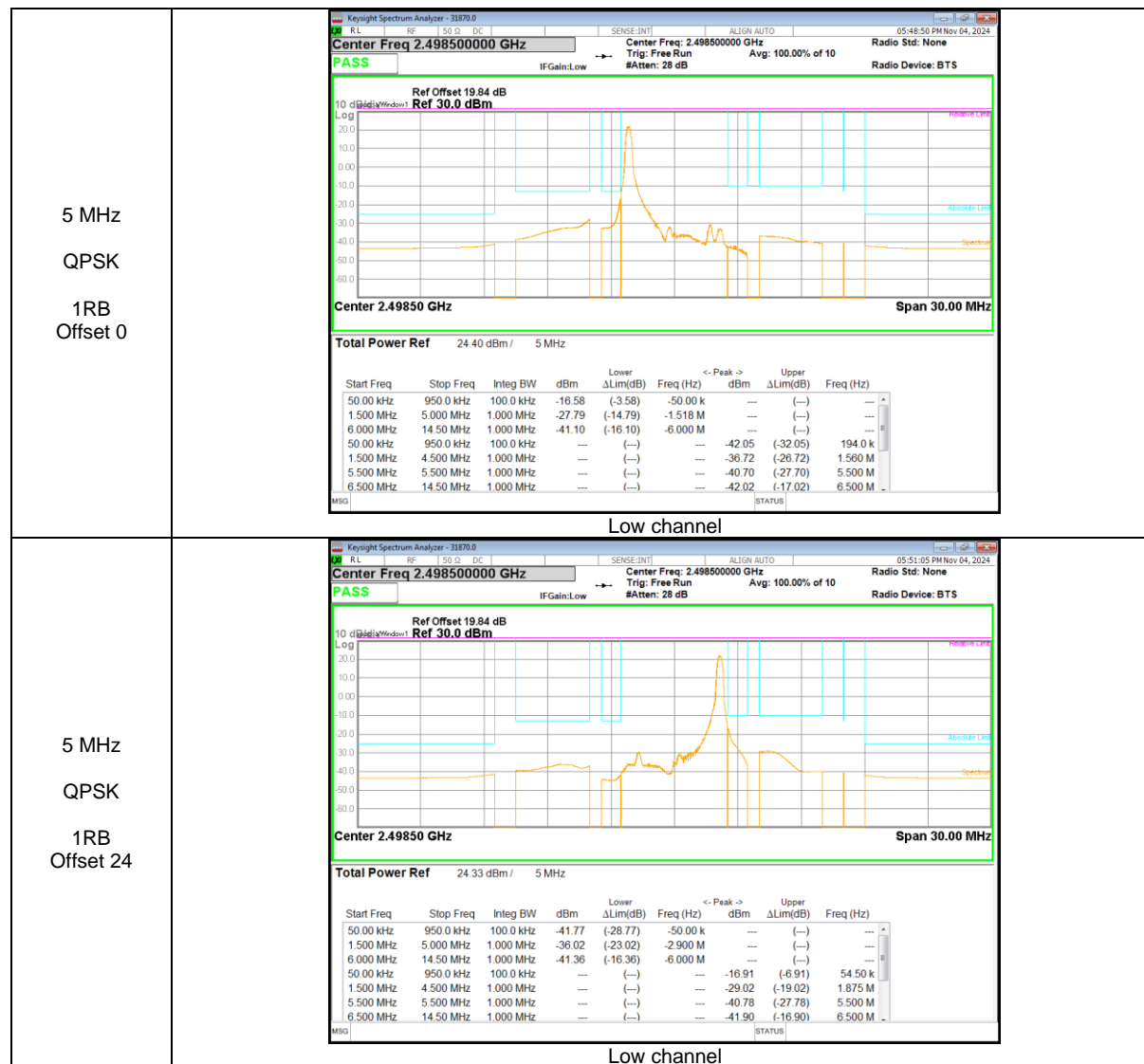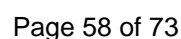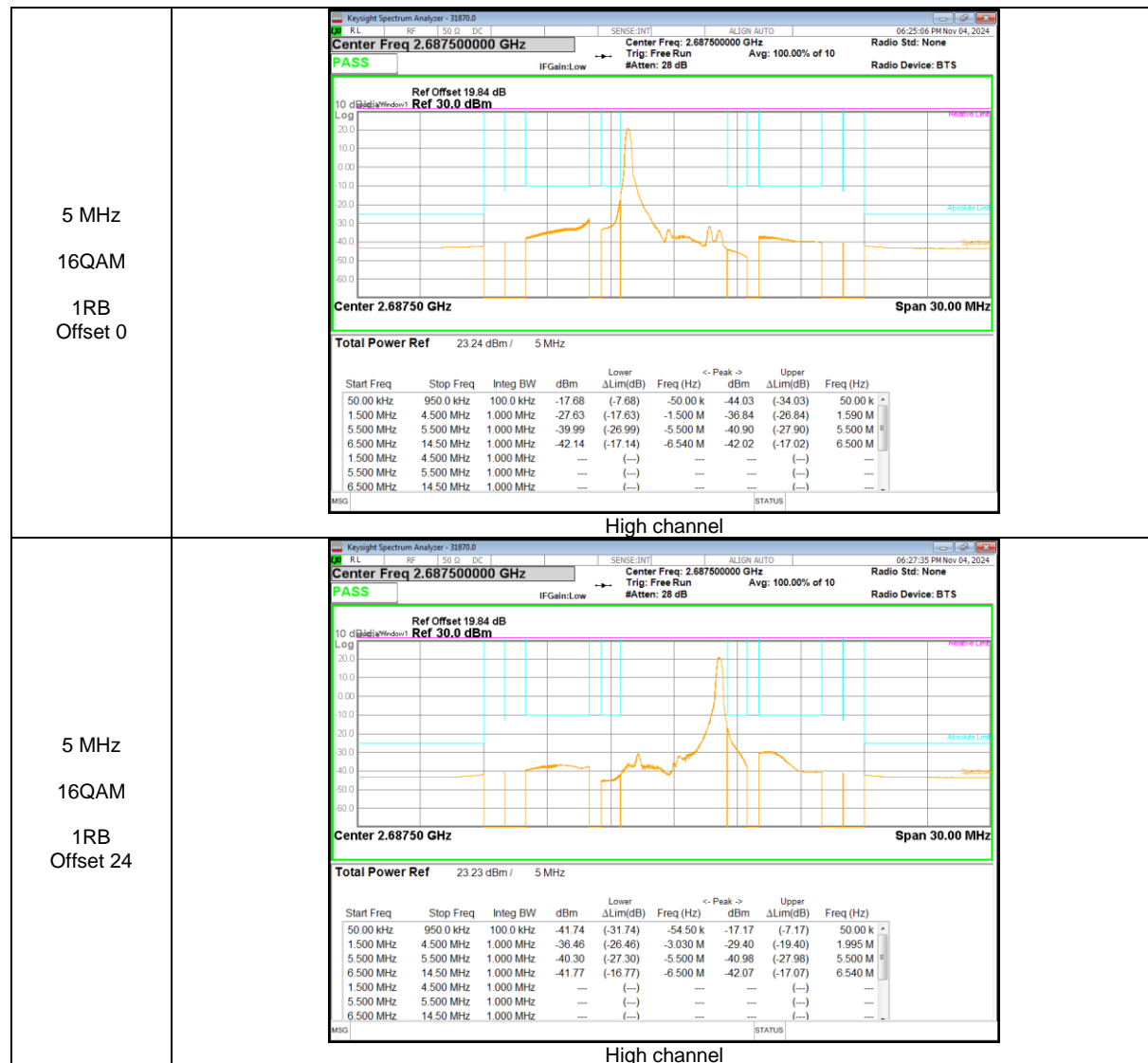
8.5.   CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §27.53

LIMITS

§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.

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

(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.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold Mode using a rms detector to ensure that the worst-case emissions were caught.

a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz

   (Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)

b) Set VBW ≥ 3 × RBW;

c) Set span ≥ 1.5 times the OBW;

d) Sweep time = auto couple;

e) Detector = rms;

f) Ensure that the number of measurement points = Max (40001);

g) Trace Mode = average(LTE FDD), Max hold(LTE TDD);

NOTE1

LTE: It was tested at 1RB QPSK as worst case (the highst output power and density).

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

RESULTS

See the following pages.