

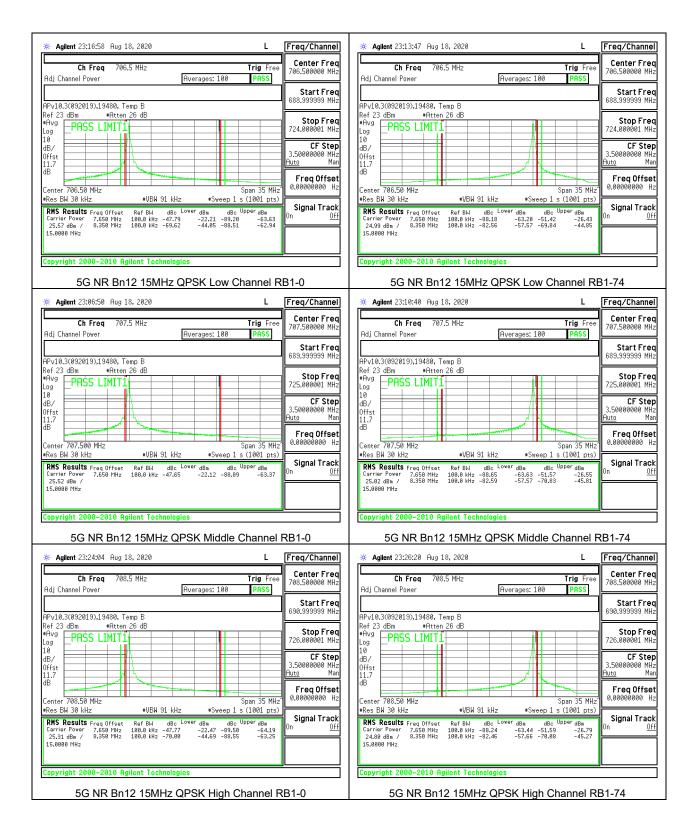
Page 159 of 445

UL VERIFICATION SERVICES INC. 47173 BENICIA STREET, FREMONT, CA 94538, USA This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc. FAX: (510) 661-0888

Image: Character Power Image: Character Power Image: Character Power Sweet UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3 Single Image: Character Power Image: Character	s Ch Freq 707.5 MHz Trig Free 1.000 s Adj Channel Power PRSS Auto Man ep
Center 794,000 MHz Span 15 MHz •Res BW 30 kHz •VBW 91 kHz •Sweep 1 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 5.150 MHz 100.0 kHz -27.05 -54.33 -29.20 1 10.0000 MHz - - -27.05 -54.33 -29.20 UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3 LTE B12 10MHz QPSK Low Channel RB50-0	Center 707.500 MHz Span 15 MHz #Res BW 30 kHz #VBW 91 kHz #Sweep 1 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm 101 Carrier Fower 5.150 MHz 100.0 kHz -57.78 -32.65 -66.33 -35.20 10.0000 MHz UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3 UL:10646 Channel RB50-0 LTE B12 10MHz QPSK Middle Channel RB50-0
Agient 00:04:08 May 12, 2020 Ch Freq 711 MHz Adj Channel Power UL: 10646 \ R Date: 04/23/2020 \ CLT: Ref 30 dBm •Rtten 30 dB •Rvg •Rts Log •Rten 30 dB •Rog •Rten 30 dB •Ref 30 dBm •Rten 30 dB •Rog •Rten 30 dB •Ref 30 dBm •Rten 30 dB •Ref 80 dBm •Rten 30 dB Center 711.000 MHz •VBH 91 •Ref 80 dBm / 1000 MHz •VBH 91	R T Sweep Trig Free PRSS Auto Man Sweep Sweep Single Cont Auto Sweep Norm Accy Gate On State Setup- State Setup- State Setup- Cover dBm dBc Doints 1001

Page 160 of 445

5G NR BAND n12 ADJACENT CHANNEL POWER



Page 161 of 445



Page 162 of 445

8.2.5. LTE BAND 13 ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

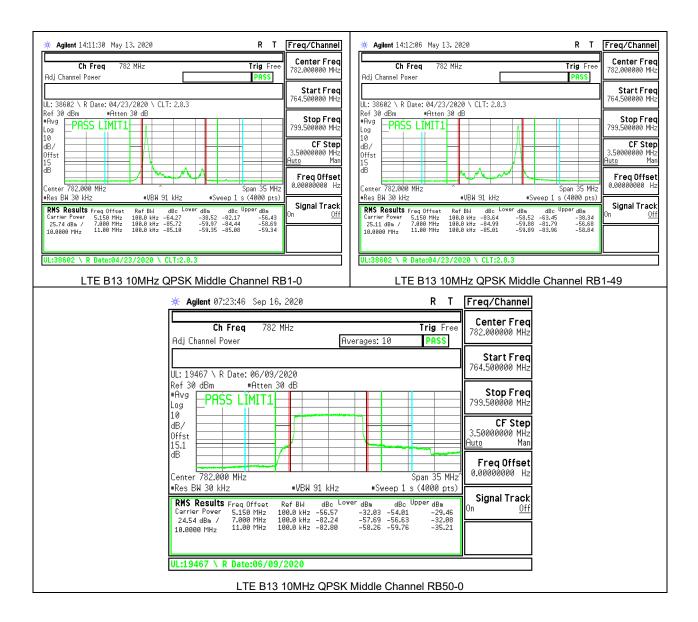
(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

Page 163 of 445



Page 164 of 445

UL VERIFICATION SERVICES INC. 47173 BENICIA STREET, FREMONT, CA 94538, USA This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc. FAX: (510) 661-0888



Page 165 of 445

8.2.6. LTE BAND 14 ADJACENT CHANNEL POWER

LIMITS

FCC: §90.543 Emission Limitations.

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

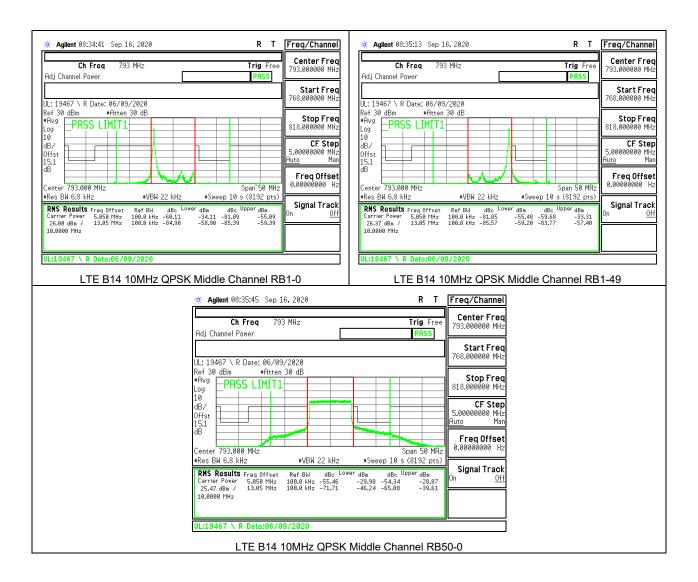
(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Page 166 of 445

* Agilent 09:55:12 May 29, 2020 R T Freq/Channel	* Agilent 09:57:44 May 29, 2020 R T Freq/Channel
Ch Freq 790.5 MHz Trig Free Adj Channel Power PRSS	Ch Freq 795.5 MHz Trig Free Adj Channel Power PASS
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3 Mkr2 795.500 MHz 770.500000 MHz	UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3 Mkr2 800.500 MHz 775.500000 MHz
Ref 30 dBm •Atten 30 dB -69,995 dBm Stop Freq *Nyg PRSS LIMIT1 810.500000 MHz 810.500000 MHz 10 10 10 10 10	Ref 30 dBm •Atten 30 dB -64.574 dBm Stop Freq •Avg PASS LIMIT1 815.500000 MHz 815.500000 MHz 10 10 10 10 10
dB/ Offst	dB/ CF Step 0ffst 4.0000000 MHz 15 Auto Man
dB Freq Offset Center 790.500 MHz Span 40 MHz •Res BH 6.8 kHz •VBH 22 kHz •Sweep 10 s (8192 pts)	dB Freq Offset Center 795.500 MHz Span 40 MHz •Res BH 6.8 kHz •VBH 22 kHz
WOR 22 KH2 **0/04/22 fr3/ Signal Track RHS Results Freq Difset Ref BH dBc Upper dBm GBC Upper dBm Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Signal Track On Off Carrier Power 5,658 MHz 108.08 Htz - 82.69 -55.66 -64.44 -55.21 On Off 18.0808 MHz 108.08 Htz - 85.24 -59.41 -59.49 -59.69 -50.69 -64.04 -59.21 On Off	Termin 2 - Res Dr 6.0. KHZ Termin 2 - Res Dr 6.0. KHZ Termin 2 - Res Dr 6.0. KHZ Signal Track RHS Results Freq Offset Ref BH dBc Lover dBm dBc Upper dBm Carrier Pover 5.658 MHz 106.0 KHz - 83.13 -57.93 -92.8 -54.43 On Off 18.0606 MHz 12.05 MHz 106.0 KHz - 84.57 -59.38 -84.43 -59.24 Image: Colspan="2" Cols
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3	UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B14 5MHz QPSK Low Channel RB1-0	LTE B14 5MHz QPSK High Channel RB1-24
* Aglient 09:56:23 May 29, 2020 R T [Freq/Channel]	* Aglient 09:58:19 May 29, 2020 R T Freq/Channel
Ch Freq 790.5 MHz Trig Free 790.50000 MHz 790.500000 MHz	Center Freq 795.5 MHz Trig Free 795.500000 MHz 795.500000 MHz
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3 Mkr2 795.500 MHz 770.500000 MHz	UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3 Mkr2 800.500 MHz 775.500000 MHz
Ref 30 dBm •Atten 30 dB -54.172 dBm Stop Freq •Nog Log 10 PRSS LIMIT1 810.500000 MHz 810.500000 MHz	Ref 30 dBm •Atten 30 dB -48.451 dBm Stop Freq •Avg PASS LIMIT1 815.500000 MHz 815.500000 MHz 10 10 10 10 10
dB/ Offst 15 400000000 MHz Auto Man	dB/ Offst 15 40000000 MHz Auto Man
dB Span 40 MHz Center 790.500 MHz Span 40 MHz •Res DH 6.8 kHz •VBH 22 kHz	dB Freq Offset Center 795.500 MHz Span 40 MHz •Res BH 6.8 kHz •VBW 22 kHz •Sweep 10 s (8192 pts)
RHS Results Freq Offset Ref Bill dE Lover dBm dBc Upper dBm Signal Track Carrier Power 5,058 MHz 198.0 HHz -53.69 -74.59 -49.42 -01 0ff 18.06060 MHz 120.8 HHz -81.56 -56.38 -74.59 -49.42 0n 0ff	RKBS DK 0.5 KHZ #VDM // Z KHZ #VMeep 10 S (0122 pts)) Signal Track RHS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm dBc Upper dBm Carrier Pover S,058 MHz 108,0 kHz - 64.61 -94.7 -66.0 -35.46 18,0000 MHz 12.05 MHz 108,0 kHz - 76.82 -51.66 -75.05 -49.91
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3	UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B14 5MHz QPSK Low Channel RB25-0	LTE B14 5MHz QPSK High Channel RB25-0

Page 167 of 445



Page 168 of 445

8.2.7. LTE BAND 17 BANDEDGE

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.

Page 169 of 445

* Agilent 01:51:42 Sep 13, 2020 L Freq/Channel	* Agilent 01:58:25 Sep 13, 2020 L Freq/Channel
Center Freq Ch Freq 706.5 MHz Trig Free Rdj Channel Power PRSS	Center Freq Ch Freq 713.5 MHz Trig Free Rdj Channel Power PRSS
AP2020.9.1,19467,Conducted D2 Start Freq 699,000000 MHz	AP2020.9.1.19467.Conducted D2 766.000000 MHz
Ref 28 dBm •Atten 28 dB •Avg Log PASS LIMIT1 714.000000 MHz 10 714.000000 MHz	Ref 28 dBm •Atten 28 dB •Avg Log PASS LIMIT1 10 721.000000 MHz
dB/ Offst	dB/ Offst CF Step 1,5000000 Miz Huto Man 1,5000000 Miz Huto
dB Center 706.500 0 MHz Span 15 MHz 0.00000000 Hz	dB Center 713.500 0 MHz Span 15 MHz 0.00000000 Hz
Res BH 30 kHz VBM 91 kHz Sweep 50.78 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 2.650 MHz 100.0 kHz -50.86 -30.93 -82.56 -57.43 On Off Suppower 5.06060 MHz 0 -57.43 0 <td>•Res BH 30 kHz VBH 31 kHz Sweep 50.78 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BH dBc Lower dBm dBc Upper dBm Carrier Power 2.558 MHz 108.0 kHz -57.88 -57.78 -32.09 Off 5.068060 MHz 5.068060 MHz 108.0 kHz -83.58 -57.78 -32.09 Off</td>	•Res BH 30 kHz VBH 31 kHz Sweep 50.78 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BH dBc Lower dBm dBc Upper dBm Carrier Power 2.558 MHz 108.0 kHz -57.88 -57.78 -32.09 Off 5.068060 MHz 5.068060 MHz 108.0 kHz -83.58 -57.78 -32.09 Off
50000 m2	5.0000 miz
UL:19467 \ R Date:06/09/2020	UL:19467 \ R Date:06/09/2020
LTE B17 5MHz QPSK Low Channel RB1-0	LTE B17 5MHz QPSK High Channel RB1-24
* Agilent 13:11:24 May 13, 2020 R T Freq/Channel	* Agilent 13:14:09 May 13, 2020 R T Freq/Channel
Ch Freq 706.5 MHz Trig Free 706.50000 MHz 706.500000 MHz	Center Freq Ch Freq 713.5 MHz Trig Free Rdj Channel Power PRSS
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 28 dBm •Atten 28 dB *Avg Log 10 PRSS LIMIT1 Stop Freq 714.000000 MHz	Ref 28 dBm •Atten 28 dB Stop Freq
dB/ 0ffst 15 15 15 15 15	dB/ CF Step 0ffst
dB Freq Offset Center 706.500 0 MHz Span 15 MHz •Res BM 51 kHz •VBW 160 kHz Sweep 17.47 ms (8192 pts)	dB Freq Offset Center 713.500 0 MHz Span 15 MHz •VBW 160 kHz Sweep 17.47 ms (8192 pts)
RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track On Offset On On Offset On Offset On Offset On On On On <th< td=""><td>RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper Signal Track On Off Carrier Power 2.4.77 40 / / 188.0 kHz -56.32 -31.55 -58.89 -34.12 On Off</td></th<>	RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper Signal Track On Off Carrier Power 2.4.77 40 / / 188.0 kHz -56.32 -31.55 -58.89 -34.12 On Off
5.00000 MHz	5.00000 MHz
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3	UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B17 5MHz QPSK Low Channel RB25-0	LTE B17 5MHz QPSK High Channel RB25-0

Page 170 of 445

# Agitent 01:38:52 Sep 13, 2020 L Freq/Channel	* Agilent 01:34:15 Sep 13, 2020 L Freq/Channel
Ch Freq 709 MHz Trig Free 709.000000 MHz 709.000000 MHz	Ch Freq 711 MHz Trig Free 711.000000 MHz 711.000000 MHz
AP2020.9.1,19467,Conducted D2	AP2020.9.1,19467,Conducted D2 Start Freq 696.000000 MHz
Ref 28 dBm •Atten 28 dB Stop Freq *Avg PRSS LIMIT1 724.000000 MHz 10 724.000000 MHz	Ref 28 dBm •Atten 28 dB •Arage PASS LIMIT1 1 10 1 726.000000 MHz
dB/ Offst	dB/ 0ffst CF Step 2.0000000 Miz Auto 15 A
dB Span 30 MHz Center 709.000 MHz Span 30 MHz •Res BH 30 KHz VBW 91 kHz	dB Freq Offset Center 711.000 MHz Span 30 MHz •Res BH 30 kHz VBH 91 kHz Sweep 101 ms (8192 pts)
Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm Signal Track Carrier Power 5.150 MHz 188.0 kHz -63.68 -38.32 -85.27 -59.91 On Off 25.36 dBm / ////////////////////////////////////	RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track Carrier Power 5.158 MHz 180.8 kHz -85.69 -61.46 -64.36 -48.13 On Off
18.0000 MHz	18.8080 MHz
UL:19467 \ R Date:06/09/2020	UL:19467 \ R Date:06/09/2020
LTE B17 10MHz QPSK Low Channel RB1-0	LTE B17 10MHz QPSK High Channel RB1-49
* Agilent 13:17:28 May 13, 2020 R T Freq/Channel	* Agilent 13:20:20 May 13, 2020 R T Freq/Channel
Ch Freq 709 MHz Trig Free 709.00000 MHz 709.000000 MHz 709.000000 MHz	Center Freq Ch Freq 711 MHz Trig Free Adj Channel Power PASS
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 28 dBm #Atten 28 dB #Avg Log PRSS LIMIT1 Stop Freq 724,000000 MHz 10 ////////////////////////////////////	Ref 28 dBm •Atten 28 dB Stop Freq •Avg PASS LIMIT1 726,000000 MHz 10 726,000000 MHz
dB/ Offst 15 15	dB/ CF Step 0ffst
dB Freq Offset Center 709.000 MHz Span 30 MHz •Res BH 100 kHz •VBH 300 kHz	dB Freq Offset Center 711.000 MHz Span 30 MHz •Res BH 100 KHz •VBW 300 kHz
Results Freq Offset Ref Bi/ Larrier Bic Lover dBm dBc Lover dBm Bic Upper dBm Signal Track Carrier 0n 0ff 24.20 dBm / -33.78 0ff	RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track On Off Carrier Pover 5.158 HHz 188.0 kHz -55.86 -29.89 -54.65 -29.48 On Off
18.0000 MHz	10.0000 MHz
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3	UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B17 10MHz QPSK Low Channel RB50-0	LTE B17 10MHz QPSK High Channel RB50-0

Page 171 of 445

8.2.8. LTE BAND 25 BANDEDGE

LIMITS

FCC: §24.238

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.

Page 172 of 445

Agilent 20:18:28 May 14, 2020 L Freq/Channel	* Agilent 20:24:14 May 14, 2020
Center Freq 1.8507 GHz Trig Free Adi Channel Power Rdi Channel Power	Ch Freq 1.9143 GHz Trig Free 1.91430000 GHz Adj Channel Power PRSS 1.91430000 GHz 1.91430000 GHz
HP2020.4.30.10646.Temp B	Start Freq 1.90930000 GHz
Ref 30 dBm Rtten 30 dB Stop Freq Phys PRSS LIMIT1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ref 30 dBm Atten 30 dB Stop Freq •Rvg PRSS LIMIT1 1.91930000 GHz
	10 dB/ 0ffst 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Urist 16.1 dB Control 1950 700 Clip Control 1950 700 Clip Control 1950 700 Clip	16.1 dB Freq Offset 0.00000000 Hz
Res BW 30 kHz #VBW 91 kHz Sweep 33.6 ms (1001 pts) Stanol Track	*Res BW 30 kHz *VBW 91 kHz Sweep 33.6 ms (1001 pts)
RHS Results Frag Offset Ref Bill dBc Lower dBm dBc Upper dBm Junit 11 dCk Carrier Power 22.808 MHz 1.0008 MHz -63.18 -36.31 -66.40 -39.53 On Off 1.40080 MHz HHz - - - - - - - - 0.53 Off Off - - 0	RMS Results Freq Offset Ref BH dBc Lower dBc Upper dBm On Offset On Offset On Offset On Offset On Offset On Offset Offset On Offset Of
Copyright 2000-2011 Agilent Technologies	Copyright 2000-2011 Agilent Technologies
LTE B25 1.4MHz QPSK Low Channel RB1-0	LTE B25 1.4MHz QPSK High Channel RB1-5
* Aglient 20:09:31 May 14, 2020 R L Freq/Channel	* Agilent 20:23:37 May 14, 2020
Center Freq Adj Channel Power PPRS	Ch Freq 1.9143 GHz Trig Free 1.91430000 GHz Adj Channel Power PASS 1.91430000 GHz 1.91430000 GHz
Start Freq 1.84570000 GHz	AP2020.4.30,10646,Temp B Start Freq 1.30930000 GHz
Ref 39 dBm Atten 30 dB •Rvg PR\$S LIMIT1 1.85570000 GHz	Ref 30 dBm Atten 30 dB •Avg PA\$S LIMIT1
10 dB/ Offst 16.1 16.1 16.1 16.1 10.000000 Mlz Auto Mar Mar Mar Mar Mar Mar Mar Mar	10 dB/ Offst 16.1
10.1 Freq Offset 0.0000000 Hz Span 10 MHz	16.1 16.1 <th< td=""></th<>
OVITOR 1000 700 OIL OPUIL 10 PIIL2	
Res BW 30 kHz WBW 91 kHz Sweep 33.6 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm Opf	
Signal Track	#Res BW 30 kHz #VBW 91 kHz Sweep 33.6 ms (1001 pts)
RMS Results Freq Offset Ref Bik dBc Lower dBm dBc Upper dBm Signal Track On Off Carrier Power 2.521 600 MHz 1.000 MHz -45.22 -19.51 -44.82 -19.10 On Off 1.40000 MHz 1.40000 MHz 000 MHz </td <td>•Res EW 30 kHz •VEW 91 kHz Sweep 33.6 ms (1001 pts) Signal Track Imbs Results Freq Diffeet Ref BW dBc Lower dBm dBc Upper dBm On Off 24.94 dBm / 1.000 MHz 1.000 MHz -44.31 -19.37 -45.62 -20.08 On Off</td>	•Res EW 30 kHz •VEW 91 kHz Sweep 33.6 ms (1001 pts) Signal Track Imbs Results Freq Diffeet Ref BW dBc Lower dBm dBc Upper dBm On Off 24.94 dBm / 1.000 MHz 1.000 MHz -44.31 -19.37 -45.62 -20.08 On Off
RMS Results Freq Offset Ref Bik dBc Lower dBm dBc Upper dBm Signal Track Carrier Power 2.200 MHz 1.000 MHz -45.22 -19.51 -44.92 -19.10 On Off 25.71 dBm / //// -19.51 -44.92 -19.10 On Off	*Res BW 30 kHz *VBW 91 kHz Sweep 33.6 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 2.208 MHz 1.080 MHz -44.31 -19.37 -45.82 -20.88

Page 173 of 445

* Agilent 20:59:40 May 14, 2020 L Freq/Channel	* Agilent 20:52:57 May 14, 2020 L Freq/Channel
Ch Freq 1.8515 GHz Trig Free Center Freq Adj Channel Power PRSS 1.85150000 GHz 1.85150000 GHz	Ch Freq 1.9135 GHz Trig Free 1.91350000 GHz Adj Channel Power PRSSI 0.91350000 GHz 1.91350000 GHz
Start Freq 1.84400000 GHz	Start Freq 1.30600000 GHz
Ref 30 dBm Atten 30 dB *Rvg PR\$S LIMIT1 n 1.85300000 GHz 1.85300000 6Hz	Ref 30 dBm Atten 30 dB eAvg Log PASS LIMIT1 1
10 dB/ Offst 16.1 CF Step 1.5900000 MHz Auto Man	10 dB/ 0ffst 16.1 16.1 1.5000000 MHz Auto Man
IO.1 Freq Offset 0.00000000 Hz 0.00000000 Hz	International dB Freq Offset Center 1.913 500 GHz Span 15 MHz
■Res BM 30 kHz ■VBM 91 kHz Sweep 50.33 ms (1001 pts) Signal Track RMS Results Freq Offeet Ref BM dbc Lower dbm dbc Upper dBm 0n Off Carrier Power 3.000 MHz 1.000 MHz -53.20 -67.33 - 441.40 0n Off 3.00000 MHz 1.000 MHz -51.50 - 32.80 - 64.87 - 38.21 3.0000 MHz	•Res BH 30 kHz •VBH 91 kHz Sweep 50.33 ms (1001 pts) Signal Track RMS Results Frag Offset Ref BH dBc Lover dBm Carrier Pover 3.060 MHz 1.060 MHz -65.38 dBc Upper dBm Concert Pover 3.060 MHz 1.060 MHz -65.38 dBc Upper dBm Concert Pover 3.060 MHz 1.060 MHz -65.38 dBc Upper dBm Concert Pover 3.060 MHz 1.060 MHz -65.38 Signal Track 0.01 Microsoft Pover 3.060 MHz -65.38 DBC Concert Pover 3.060 MHz
Capyright 2000-2011 Agilent Technologies	Copyright 2000-2011 Agilent Technologies
LTE B25 3MHz QPSK Low Channel RB1-0	LTE B25 3MHz QPSK High Channel RB1-14
※ Agilent 21:03:51 May 14, 2020 L Freq/Channel	* Agilent 20:54:59 May 14, 2020 L Freq/Channel
Ch Freq 1.8515 GHz Trig Free 1.85150000 GHz Adj Channel Power PASS 2.85150000 GHz 1.85150000 GHz	Ch Freq 1.9135 GHz Trig Free Center Freq Adj Channel Power PRSS 1.91350000 GHz 1.91350000 GHz
Start Freq RP2020.4.30.10646,Temp B	AP2020.4.30,10646,Temp B
Ref 30 dBm Atten 30 dB	Ref 30 dBm Atten 30 dB •Rvg Log PASS LIMIT1 Stop Freq 1.92100000 GHz
100 CF Step dB/ 1.5000000 MHz 16.1 4.000 MHz	10 dB/ 0ffst 1.5000000 Mlz 1.5000000 Mlz Auto Man
dB Center 1.851 500 GHz Span 15 MHz 0.00000000 Hz	dB Freq Offset Center 1.913 500 GHz Span 15 MHz
*Res BW 30 kHz *VBW 91 kHz Sweep 50.33 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm Carrier Power 3.080 MHz 1.0800 MHz -39.36 -14.87 -40.73 -16.23	*Res BW 30 kHz #VBW 91 kHz Sweep 50.33 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 3.000 MHz 1.000 MHz -39.13 -14.39 -41.24 -16.50
24.49 dBm / 3.800000 MHz	24.74 d8m / 3.00000 MHz
Copyright 2000–2011 Agilent Technologies	Copyright 2000–2011 Agilent Technologies
LTE B25 3MHz QPSK Low Channel RB15-0	LTE B25 3MHz QPSK High Channel RB15-0

Page 174 of 445

	* Agilent 21:19:04 May 14, 2020 L Freq/Channel
Ch Freq 1.8525 GHz Trig Free 1.85250000 GHz	Ch Freq 1.9125 GHz Trig Free Center Freq 1.91250000 GHz
AP2020.4.30,10646,Temp B	AP2020.4.30.10646.Temp B
Ref 30 dBm Atten 30 dB *Rvg PASS LIMIT1 Log LIMIT1 LIMIT1	Ref 30 dBm Atten 30 dB *Rvg PRSS LIMIT1
10 dB/ 0ffst 16.1 16	10 dB/ Offst 15,0000000 MHz 16,1 4uto Man
16.1 dB Center 1.852 500 GHz Span 15 MHz Span 15 MHz	10.1 Image: Context 1.912 500 GHz Freq Offset 0.00000000 Hz Span 15 MHz 0.00000000 Hz
*Res BW 30 kHz *VBW 91 kHz Sweep 50.33 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 4.000 MHz 1.000 HHz 53.95 -36.57 -78.11 -42.73 27.38 dBm 6.25 EWH 2.1000 HHz -58.99 -31.51 -55.17 -37.71 -37.79	*Res BW 30 kHz *VBW 91 kHz Sweep 50.33 ms (1001 pts) RHS Results Freq Offset Ref BH dBc Lover dBm dBc Upper dBm Carrier Power 4.000 MHz 16.00 MHz -67.92 -41.90 -65.54 -39.59 25.94 dBm 64.25 MHz 1600 MHz -76.92 -45.02 -65.64 -39.65 0n Off
5.88888 MHz	5.00000 MHz
Copyright 2000–2011 Agilent Technologies	Copyright 2000-2011 Agilent Technologies
LTE B25 5MHz QPSK Low Channel RB1-0	LTE B25 5MHz QPSK High Channel RB1-24
* Agilent 21:09:32 May 14, 2020 L Freq/Channel	* Agilent 21:16:15 May 14, 2020 L Freq/Channel
Ch Freq 1.8525 GHz Trig Free 1.85250000 GHz Adj Channel Power PRSS 1.85250000 GHz 1.85250000 GHz 1.85250000 GHz	Ch Freq 1.9125 GHz Trig Freq 1.91250000 GHz Adj Channel Power PRSS 1.91250000 GHz 1.91250000 GHz
AP2020.4.30,10646,Temp B	Start Freq 1.90500000 GHz
Ref 30 dBm Atten 30 dB Hyg PRSS LIMIT1 1.86000000 GHz	Ref 30 dBm Atten 30 dB Hyg PASS LIMIT1 1000000000000000000000000000000000000
dB/ 0ffst 16.1 00000000 MHz Huto Man	dB/ 0ffst CF Step 0ffst 1.5000000 MHz 16.1 VV***********************************
dB Freq Offset Center 1.852 500 GHz Span 15 MHz #Res BW 51 KHz •VBW 160 kHz Sweep 17.4 ms (1001 pts)	dB Freq Offset Center 1.912 500 GHz Span 15 MHz *Res BW 51 KHz •VBW 160 kHz Sweep 17.4 ms (1001 pts)
Res DW 51 Kh2 *UDW 100 Kh2 Sweep 17.4 His (1001 pts) RHS Results Freq Offset Ref BW dBc Down dBa dBc Upper dBa Carrier Power 4.000 MHz 1.000 MHz -40.57 -14.66 -41.22 -15.31 25.91 dBa / ////////////////////////////////////	Res DW 51 Km2 #VDW 100 Km2 Sweep 17.4 ms (100 pts) Signal Track RHS Results Freq Offset Ref Bill dBc Lower dBm dBc Upper dBm Carrier Power 4.000 MHz 1.000 MHz 1.930.51 -15.61 -41.60 -17.10
5.0000 MHz	5.0000 MHz
Copyright 2000–2011 Agilent Technologies	Copyright 2000–2011 Agilent Technologies
LTE B25 5MHz QPSK Low Channel RB25-0	LTE B25 5MHz QPSK High Channel RB25-0

Page 175 of 445

* Agilent 21:44:52 May 14, 2020 L Freq/Channel	* Agilent 21:42:33 May 14, 2020 L Freq/Channel
Ch Freq 1.855 GHz Trig Free 1.85500000 GHz Center Freq 1.85500000 GHz Adj Channel Power PASS	Ch Freq 1.91 GHz Trig Free 1.91000000 GHz Adj Channel Power PRSS Center Freq 1.91000000 GHz
Start Freq 0.10200.4.30,10646,Temp B	Start Freq AP2020.4.30,10646,Temp B
Ref 30 dBm Atten 30 dB •Avg PASS LIMIT1 Log 1.87000000 GHz	Ref 30 dBm Atten 30 dB •Avg PRSS LIMIT1 1.92500000 GHz
10 dB/ Offst 161 161 161 161 10 10 10 10 10 10 10 10 10 1	10/ dB/ Offst
16.1 dB Center 1.855 00 GHz Center 1.855 00 GHZ	16.1 dB Center 1.910 00 GHz Center 1.910 00 GHz Center 1.910 00 GHz Center 1.910 00 GHz
*Res BW 30 kHz #VBW 91 kHz Sweep 100.7 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 6.500 MHz 1.000 MHz -63.49 -37.91 -71.00 -45.42 On Off	Bits Bits <th< td=""></th<>
25.58 dBm / 13.05 MHz 1.000 MHz -63.05 -37.47 -61.00 -35.42	26.17 dBm / 10.0000 MHz
Copyright 2000–2011 Agilent Technologies	Copyright 2000–2011 Agilent Technologies
LTE B25 10MHz QPSK Low Channel RB1-0	LTE B25 10MHz QPSK High Channel RB1-49
Agilent 21:47:46 May 14, 2020 L Freq/Channel	* Agilent 21:49:26 May 14, 2020 L Freq/Channel
Ch Freq 1.855 GHz Center Freq Adj Channel Power PASS 1.85500000 GHz	Ch Freq 1.91 GHz Center Freq Adj Channel Power PRSS 1.91000000 GHz
AP2020.4.30,10646,Temp B Start Freq 1.84000000 GHz	Start Freq AP2020.4.30,10646,Temp B
Ref 30 dBm Atten 30 dB PASS LIMIT1 10 PASS LIMIT1 1.87000000 GHz	Ref 30 dBm Atten 30 dB *Nyg PASS LIMIT1 Stop Freq 10 1.92500000 GHz
dB/ Offst 16.1 www.www.united for the second	dB/ 0ffst 16.1
dB Freq Offset Center 1.855 00 GHz Span 30 MHz Dra Bit do Ula Span 20 MHz	dB Freq Offset Center 1.910 00 GHz Span 30 MHz Dxx BU 40 Hb Super 0.025 Hz
•Res Bk 100 kHz •VBM 300 kHz Sweep 3.067 ms (1001 pts) Signal Track RMS Results Freq Offset Ref Bid disc Lower dbm dbc Upper dbm dbc Upper dbm On Off Carrier Power 6.569 MHz 1.080 MHz -41.44 -16.75 -42.5 -17.76 On Off	Res BH 100 kHz •VBM 300 kHz Sweep 9.067 ms (1001 pts) Signal Track RMS Results Freq Diffset Ref BW dBc Lower dBm dBc Upper dBm Do 0 0ff Carrier Pover 5.50B MHz 1.000 HHz - 40.61 -16.65 - 43.32 -18.75 On 0ff
24.69 dBm / 13.05 MHz 1.000 MHz -48.11 -23.42 -51.30 -26.61	24.57 dBm / 13.05 MHz 1.000 MHz -49.17 -24.60 -72.49 -47.92
18.000 MHz	10.000 MHz

Page 176 of 445

* Agilent 22:03:37 May 14, 2020 L Freq/Channel	* Agilent 22:07:56 May 14, 2020
Ch Freq 1.8575 GHz Trig Free 1.85750000 GHz Adi Channel Power PASS PASS 1.85750000 GHz 1.85750000 GHz	Ch Freq 1.9075 GHz Center Freq Adj Channel Power PASS 1.90750000 GHz
AP2020.4.30,10646,Temp B	AP2020.4.30,10646,Temp B Start Freq
Ref 30 dBm Atten 30 dB •Avg PASS LIMIT1 Log 1.87500000 GHz	Ref 30 dBm Atten 30 dB •Avg PASS LIMIT1 Log 1.92500000 GHz
10/ dB/ Offst	10 dB/ Offst 16.1 16
dB Freq Offset Center 1.857 500 GHz Span 35 MHz 0.00000000 Hz	dB Center 1.907 500 GHz Span 35 MHz 0.00000000 Hz
•Res BW 30 kHz •VBW 91 kHz Sweep 117.5 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 9,000 MHz 1.000 HHz -63,04 -38,98 -72,68 -46,54 25,97 dBm 1.515 MHz 1.000 HHz -63,74 -37,08 -73,79 -47,82	•Res BW 30 kHz •VBW 91 kHz Sweep 117.5 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 9,088 MHz 1.8080 MHz -73.38 -47.99 -67.19 -49.96 Off 26.29 dBm / 15.15 MHz 1.8080 MHz -74.92 -48.03 -74.97 -49.58 Off
15.0000 MHz	15.000 MHz
Copyright 2000-2011 Agilent Technologies	Copyright 2000-2011 Agilent Technologies
LTE B25 15MHz QPSK Low Channel RB1-0	LTE B25 15MHz QPSK High Channel RB1-74
* Agilent 22:02:07 May 14, 2020 L Freq/Channel	* Agilent 21:57:57 May 14, 2020 L Freq/Channel
Ch Freq 1.8575 GHz Trig Free 1.85750000 GHz 1.85750000 GHz	Ch Freq 1.9075 GHz Trig Free 1.90750000 GHz 1.90750000 GHz
AP2020.4.30,10646,Temp B	AP2020.4.30,10646,Temp B
Ref 30 dBm Atten 30 dB *Nyg PRSS LIMITI Stop Freq 10 1.87500000 GHz	Ref 30 dBm Atten 30 dB •Rvg Log PASS LIMIT1 1.92500000 GHz 10 1.92500000 GHz
dB/ Offst 16.1 CF Step 3.50000000 MHz Auto Man	dB/ 0ffst → CF Step 16.1 16.1 10
dB Freq Offset Center 1.857 500 GHz Span 35 MHz 0.00000000 Hz	dB Freq Offset Center 1.907 500 GHz Span 35 MHz 0.00000000 Hz
•Res BW 200 kHz •VBW 620 kHz Sweep 2.667 ms (1001 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 9,008 MHz 1.000 MHz -39.31 -14.69 -42.87 -17.64	•Res BM 200 kHz •VBM 620 kHz Sweep 2.667 ms (1001 pts) Signal Track RMS Results Freq Offset Ref BM dBc Lower dBm dBc Upper dBm Carrier Power 9,000 MHz 1.080 MHz -48.47 -14.31 -44.46 -18.80
15.0000 MHz	15.0000 MHz
Copyright 2000-2011 Agilent Technologies	Copyright 2000-2011 Agilent Technologies
LTE B25 15MHz QPSK Low Channel RB75-0	LTE B25 15MHz QPSK High Channel RB75-0

Page 177 of 445

* Agilent 22:18:27 May 14, 2020 L Freq/Channel	* Agilent 22:19:54 May 14, 2020 L Freq/Channel
Ch Freq 1.86 GHz Trig Free 1.86000000 GHz Adi Channel Power PPSSI 1.86000000 GHz 1.86000000 GHz	Ch Freq 1.905 GHz Trig Free 1.90500000 GHz Adj Channel Power PRSS Center Freq 1.90500000 GHz
AP2020.4.30,10646,Temp B	AP2020.4.30,10646,Temp B
Ref 30 dBm Atten 30 dB Stop Freq *Avg PRSS LIMIT1 1.88800000 GHz	Ref 30 dBm Atten 30 dB Stop Freq •Rvg PRSS LIMIT1 1 1.92500000 GHz
10 dB/ 0ffst / / / / / / / / / / / / / / / / / / /	10 dB/ 0ffst 16.1 10 10 10 10 10 10 10 10 10 1
dB Freq Offset Center 1.860 00 GHz Span 40 MHz	dB Freq Offset Center 1.905 00 GHz Span 40 MHz
•Res BW 30 kHz •VBW 91 kHz Sweep 134.3 ms (1001 pts) TRKS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 11.50 MHz 1.000 MHz -64.93 -38.44 -73.64 -47.15 On Off	Res BW 30 kHz •VBW 91 kHz Sweep 134.3 ms (1001 pts) RMS Results Freq Offset Ref BM dBc Lower dBm dBc Upper dBm Carrier Power 11.50 MHz 1.600 MHz -72.80 -47.30 -55.55 -48.04
28.8000 MHz	28.888 MHz
Copyright 2000–2011 Agilent Technologies	Copyright 2000-2011 Agilent Technologies
LTE B25 20MHz QPSK Low Channel RB1-0	LTE B25 20MHz QPSK High Channel RB1-99
* Agilent 22:17:33 May 14, 2020 L Freq/Channel	* Agilent 22:12:24 May 14, 2020 L Freq/Channel
Ch Freq 1.86 GHz Trig Free 1.86000000 GHz Adj Channel Power PRSS 1.86000000 GHz 1.86000000 GHz	Ch Freq 1.905 GHz Trig Free 1.9050000 GHz 1.90500000 GHz
AP2020.4.30,10646,Temp B Start Freq	Start Freq
Ref 30 dBm Atten 30 dB	AP2020.4.30,10646,Temp B
PRSS LIMIT1	Ref 30 dBm Atten 30 dB *Avg PRSS LIMIT1 Log 1.92500000 GHz
•Avg Log PRSS LIMIT1 Stop Freq 1.8800000 GHz 10 0	Ref 30 dBm Atten 30 dB Stop Freq Iog 1.92500000 GHz 1.92500000 GHz 10 6.1 6.000000 MHz 0ffst 4.00000000 MHz 4.0000000 MHz 16.1 Man 6.000000 MHz
•Avg PRSS LIMIT1 State State	Ref 30 dBm Atten 30 dB Cog PRSS LIMIT1 Stop Freq 10 1.92500000 GHz 1.92500000 GHz 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
•Hvg Log 10 dB/ dB/ dB/ PRSS LIMIT1 Stop Freq 1.8800000 GHz 0	Ref 30 dBm Atten 30 dB PASS LIMIT1 Log 1.92500000 GHz 10
•Hvg Log 10 10 dB/ 0ffst PRSS LIMIT1 Stop Freq 1.8800000 GHz 10 dB/ 0ffst 1	Ref 30 dBm Atten 30 dB *Ray PRSS LIMIT1 Stop Freq 1.92500000 GHz 1.92500000 GHz 16.1 dB CF Step 0ffst
•Hvg Log 10 dB/ 0 dB/ dB/ dB/ PRSS LIMIT1 Stop Freq 1.8800000 GHz 0	Ref 30 dBm Atten 30 dB PASS LIMIT1 Log 1.92500000 GHz 10 Image: Construction of the second

Page 178 of 445

8.2.9. LTE BAND 26 EMISSION MASK (PART 90S)

LIMITS

FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

Page 179 of 445

* Agilent 00:34:01 Jun 11, 2020 L Freq/Channel	* Agilent 00:37:05 Jun 11, 2020 L Freq/Channel
Ch Freq 814.7 MHz Trig Free 814.700000 MHz Adj Channel Power PRSS \$14.700000 MHz \$14.7000000 MHz \$14.700000 MHz	Ch Freq 823.3 MHz Trig Free 823.300000 MHz Adj Channel Power PRSS Center Freq 823.300000 MHz
AP2020.5.18,, Start Freq 810.700000 MHz	AP2020.5.18,, Start Freq 819.300000 MHz
Ref 30 dBm •Atten 30 dB •Avg PRSS LiMIT1 •Avg 10g PRSS	Ref 30 dBm •Atten 30 dB •Avg PASS LIMIT1 A 827.300000 MHz
10 / CF Step 809.000000 kHz 16 / Ann	10 dB/ Offst 16 CF Step 800.000000 kHz Auto Man
dB Freq Offset Center 814.700 0 MHz Span 8 MHz	dB Freq Offset center 823.300 0 MHz Span 8 MHz
Res BW 15 kHz #VBW 47 kHz Sweep 107.6 ms (8192 pts) RMS Results Freq Offset Carrier Power 050.8 kHz Ref BW 100.8 kHz dBc Lover dBm 49.67 -24.86 -69.08 -44.27 24.81 dBm / 100.0 kHz -49.67 -24.86 -69.08 -44.27	•Res BH 15 kHz •VBW 47 kHz Sweep 107.6 ms (8192 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 858.0 kHz 108.0 kHz -69.13 -43.76 -52.95 -27.59
24.61 Kbm / 1.40000 MHz	23.57 00m / 1.40000 MHz
Copyright 2000–2010 Agilent Technologies	Copyright 2000–2010 Agilent Technologies
LTE B26 1.4MHz QPSK Low Channel RB1-0 (ID:19168)	LTE B26 1.4MHz QPSK High Channel RB1-5 (ID:19168)
* Agilent 00:34:30 Jun 11, 2020 L Freq/Channel	Agilent 00:36:25 Jun 11, 2020 L Freq/Channel
Ch Freq 814.7 MHz Trig Free 814.7 MHz Center Freq 814.700000 MHz 814.700000 MHz	Ch Freq 823.3 MHz Trig Free 823.300000 MHz 823.300000 MHz
AP2020.5.18,, Start Freq 810.700000 MHz	AP2020.5.18,, Start Freq
Ref 30 dBm •Atten 30 dB •Hvg Log PRSS LIMIT1 818.700000 MHz 10 Prime Prime 818.700000 MHz	Ref 30 dBm •Atten 30 dB •Avg PASS LIMIT1 827.300000 MHz 10 •************************************
dB/ CF Step 0ffst 800.00000 kHz 16 Auto	dB/ CF Step 0ffst 800.000000 kHz 16 Auto Man
dB main main Freq Offset Center \$14.700 0 MHz Span 8 MHz 0.00000000 Hz 0.00000000 Hz	dB standard Freq Offset Center 823.300 0 MHz Span 8 MHz Span 8 MHz Doc BU 5 MHz Span 8 MHz
Res BM 15 kHz #VBH 47 kHz Sweep 107.6 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BH dBc Lover dBm dBc Upper dBm On Off Z5.15 dBm 1.4060B MHz 108.0 kHz -68.37 -35.23 -58.68 -25.46 Off	eRes BM 15 kHz eVBM 47 kHz Sweep 107.6 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BM dBc Lower dBm dBc Upper dBm Carrier Power 850.8 kHz 108.8 kHz -54.40 -29.31 -55.93 -31.85 On Off 1.40000 HHz 14000 HHz -31.85 -31.85 Off Off 0000 HHz
Copyright 2000-2010 Agilent Technologies	Copyright 2000-2010 Agilent Technologies

Page 180 of 445

Agilent 00:47:32 Jun 11, 2020	nnel 🔆 Agilent 00:57:09 Jun 11, 2020 L Freq/Channel
Ch Freq 815.5 MHz Trig Free Center Adj Channel Power PRSS 15.50000 15.50000	
AP2020.5.18.19467.Conducted B2	Treq Start Freq
Ref 30 dBm +Arten 30 dB Stop PAys PRSS LIMIT1 8 8 20.50000	req Ref 30 dBm #Atten 30 dB
	10 CF Step dB/
16 dB	Man fset
Center 815,500 0 MHz Span 10 MHz 0.0000000 •Res BW 15 kHz •VBW 47 kHz Sweep 134.3 ms (8192 pts)	0 Hz Center 822.500 0 MHz Span 10 MHz 0.00000000 Hz +Res BW 15 kHz +VBW 47 kHz Sweep 134.3 ms (8192 pts)
RMS Results Freq Offset Ref BU dbc Lover dbm dbc Upper Bin Signal T Carrier Power 1.658 MHz 108.08 Hz -51.37 -26.37 -72.57 -47.57 On	
3.00000 MHz	3.00000 MHz
Copyright 2000-2010 Agilent Technologies	Copyright 2000-2010 Agilent Technologies
LTE B26 3MHz QPSK Low Channel RB1-0	LTE B26 3MHz QPSK High Channel RB1-14
* Agilent 00:51:18 Jun 11, 2020 L Freq/Cha	nnel 🔆 Agilent 00:52:22 Jun 11, 2020 L Freq/Channel
Ch Freq 815.5 MHz Trig Free 815.50000 Adj Channel Power PRSS	
HP2020.5.18.19467.Conducted B2	Treq Start Freq
Ref 30 dBm •Atten 30 dB •Atten 30 dB \$	MHz Log PHSS LIMITI
Offst 1.0000000	
16 dB Center \$15,500 0 MHz Center \$15,500 0 MHz Center \$15,500 0 MHz C	fset
eRes BW 30 kHz = ₩BW 91 kHz Sweep 33.86 ms (8192 pts)	Here BW 30 kHz #VBW 91 kHz Sweep 33.86 ms (8192 pts)
KAS KESUITS Freq Offset Ref BL dBc Lower dBm dBc Opper dBm Carrier Power 1.650 MHz 100.0 kHz -55.09 -29.50 -47.63 -22.04 25.59 dBm /	Off KMS KeSuits Freq Offset Ref BN dBc Lower dBm dBc Opper dBm Carrier Power 1550 MHz 108.0 kHz -53.90 -28.52 -57.35 -31.90 On Off
3.00000 MHz	3.00000 MHz
Copyright 2000–2010 Agilent Technologies	Copyright 2000-2010 Agilent Technologies

Page 181 of 445

* Agilent 01:01:09 Jun 11, 2020	Agilent 00:47:47 Sep 18, 2020 R L Freq/Channel	
Ch Freq 816.5 MHz Trig Free Center Freq Adj Channel Power PRSS1 816.500000 MHz 816.500000 MHz	Ch Freq 821.5 MHz Trig Free Center Freq Adj Channel Power Averages: 100 PRSS 821.500000 MHz	
AP2020.5.18.19467.Conducted B2	UL: 19480 \R Date: 06/09/2020	
Ref 30 dBm *Atten 30 dB *Avg PRSS LIMIT1 821.500000 MHz	Ref 30 dBm +Atten 30 dB +Atya PASS LIMIT1	
10 dB/ Dffst CF Step 1.00000000 MHz	10 dB/ Offst CF Step 1.0000000 MHz	
16 dB G C FOR A MU	16 dB Curren 201 For a Mile Curren 201 For a Mile Curren 201 For a Mile Curren 201 For a Mile	
Lenter 510.300 0 MHz Span 10 MHz #Res BW 15 kHz #VBW 47 kHz Sweep 134.3 ms (8192 pts)	*Res BW 51 kHz *VBW 160 kHz Sweep 12.01 ms (8192 pts)	
Kho KeSults Freq Offset Ref Bil dBc Lower dBm dBc Opper dBm Carrier Power 2.650 MHz 100.0 kHz -56.13 -31.12 -79.42 -54.41 On Off 25.01 dBm / // - - - - - - - - - - - - - - - - - 0n Off Off - - - - - - - - - - - - - - - 0n Off Off - 0n Off - 0n Off - - 0n Off - 0n Off - - 0n Off - 0n - 0n - 0n - 0n - 0n 0n - 0n	Carrier Power 2,550 MHz 100.0 kHz -82.57 -56.69 -59.26 -33.39 On Off	
5.00000 MHz	5.00000 MHz	
Copyright 2000-2010 Agilent Technologies	UL:19480 \R Date:06/09/2020	
LTE B26 5MHz QPSK Low Channel RB1-0	LTE B26 5MHz QPSK High Channel RB1-24	
* Agilent 00:59:24 Jun 11, 2020 L Freq/Channel	* Agilent 01:02:25 Jun 11, 2020 L Freq/Channel	
Ch Freq 816.5 MHz Trig Free Center Freq Adi Channel Power PRSSI 816.500000 MHz 816.500000 MHz	Ch Freq 821.5 MHz Trig Freq 821.500000 MHz Adj Channel Power PRSS 821.500000 MHz 821.5000000 821.5000000 821.5000000 821.5000000 821.5000000 821.50000000 821.50000000 821.5000000000000000000000000000000000000	
Start Freq 811.500000 MHz		
IAP2020 5 18 19467 Conducted B2	P2020 5 18 19467 Conducted B2 Start Freq 816.500000 MHz	
AP2020.5.18,19467,Conducted B2 Ref 30 dB •Atten 30 dB	AP2020.5.18,19467,Conducted B2 Ref 30 dBm • Atten 30 dB • Avyo PASS LIMIT1 826,500000 MHz 826,500000 MHz 826,500000 MHz	
Ref 30 dBm •Atten 30 dB •Avg Log PASS LIMIT1 821.50000 MHz 10 dB/ CF Step	AP2020.5.18,19467,Conducted B2 816.500000 MHz Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1 Log 826.500000 MHz 10 474.0000 MHz	
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1 Log 6 10 6 dB/ 6 0 6 0 7 0 7 0 7 10 10 0 10	AP2020.5.18,19467,Conducted B2 816.500000 MH2 Ref 30 dBm +Atten 30 dB *Arg PRSS LIMIT1 10 0 16 0 17 0 18 0 19 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 100000000 0 1000000000 0 1000000000000000000000000000000000000	
Ref 30 dBm *Atten 30 dB *Nog Log 10/ dB/ dB/ dB PRSS LIMIT1 Stop Freq 821.500000 MHz 0/ dB/ dB/ dB 0/ dB/ dB/ dB/ dB/ center 816.500 0 MHz 10/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB	AP20205.518.19467,Conducted B2 816.500000 MHz Ref 30 dBm eRtra 30 dB eRty PRSS LIMIT1 Log 826.500000 MHz 10 6 dB/ 0 Offst 0 dB 0 Center 821.500 0 MHz Span 10 MHz	
Ref 30 dBm •Atten 30 dB *Phys PRSS LIMIT1 Stop Freq 821.500800 MHz 10 dB/ dB/ dB/ dB/ effet ••••••••••••••••••••••••••••••••••••	AP2020.5.18.19467,Conducted B2 816.500000 MH2 Ref 30 dBm *Atten 30 dB *Avg PASS LIMIT1 Log 826.500000 MH2 10 B dB/ 0 Offst 10 dB 10 dB/ 10 eRes 30.50000 MH2 10000000 MH2 Res BH 51 kH2 *VBH 160 kHz Span 10 MHz *Res BH 51 kHz *VBH 160 kHz Super dBm dB Carrier Power 2.550 HHz 100 kHz 400 Lower dBm dB Carrier Power 2.550 HHz 100.6 kHz 26.7 5.5 30 -31.45	
Ref 30 dBm *Atten 30 dB *Avg Log 0 dB/ PRSS LIMIT Stop Freq 821.500000 MHz 0 dB/ CF Step 1.00000000 MHz 0 dB/ Span 10 MHz Span 10 MHz *Res Bk 51 kHz *VBM 160 kHz Sweep 12.01 ms (8192 pts) Signal Track Results Freq 0ffset Res US Freq 0ffset Signal Track Signal Track	AP2020.5.18,19467,Conducted B2 816.500000 MH2 Ref 30 dBm *Atten 30 dB *Argy PRSS LIMIT1 Log 826,500000 MH2 10 CF Step 0dB/ 0000000 MH2 0dB/ 000000000 MH2 0dB/ 00000000 H2 *Res BW 51 kH2 *VBW 160 kH2 Sweep 1201 ms (8192 pts) Signal Track Signal Track	
Ref 30 dBm •Atten 30 dB *Avg PRSS LIMIT Stop Freq 10 0 </td <td>AP2020.5.18,19467.Conducted B2 816.500000 MH2 Ref 30 dBm *Atten 30 dB *Avg PRSS LIMIT1 Log 10 10 100000 MH2 B2 100000 MH2 10 1000000 MH2 10 10000000 MH2 10 10000000 MH2 10 100000000 MH2 10000000 MH2 100000000 MH2 100000000 MH2 100000000 MH2 100000000 MH2 100000000 H2 100000000 H2 1000000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 1000000000 H2 1000000000 H2 100000000 H2 1000000000000000000000000000000000000</td>	AP2020.5.18,19467.Conducted B2 816.500000 MH2 Ref 30 dBm *Atten 30 dB *Avg PRSS LIMIT1 Log 10 10 100000 MH2 B2 100000 MH2 10 1000000 MH2 10 10000000 MH2 10 10000000 MH2 10 100000000 MH2 10000000 MH2 100000000 MH2 100000000 MH2 100000000 MH2 100000000 MH2 100000000 H2 100000000 H2 1000000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 100000000 H2 1000000000 H2 1000000000 H2 100000000 H2 1000000000000000000000000000000000000	
Ref 30 dBm •Atten 30 dB *Avg PRSS LIMIT Stop Freq 10 0 </td <td>AP2020.5.18,19467.Conducted B2 816.500000 MHz Ref 30 dBm *Atten 30 dB *Arg PASS LIMIT1 Log 826.500000 MHz 10 Arten 30 dB 0 Arten 30 dB *Arg PASS LIMIT1 1 Arten 40 dB 0 Arten 40 dB CF Step 1.0000000 MHz 4uto Man B Stall V Span 10 MHz 0.000000 MHz 0.000000 MHz 0.0000000 MHz 0.0000000 Hz *Res B M 51 kHz *UBM 160 kHz Step 12.01 ms (3192 pt) Signal Track 0n 0ff 25.48 dBm / 25.68 MHz</td>	AP2020.5.18,19467.Conducted B2 816.500000 MHz Ref 30 dBm *Atten 30 dB *Arg PASS LIMIT1 Log 826.500000 MHz 10 Arten 30 dB 0 Arten 30 dB *Arg PASS LIMIT1 1 Arten 40 dB 0 Arten 40 dB CF Step 1.0000000 MHz 4uto Man B Stall V Span 10 MHz 0.000000 MHz 0.000000 MHz 0.0000000 MHz 0.0000000 Hz *Res B M 51 kHz *UBM 160 kHz Step 12.01 ms (3192 pt) Signal Track 0n 0ff 25.48 dBm / 25.68 MHz	

Page 182 of 445

Ch Freq 819 MHz Trig Free Adj Channel Power PRSS AP2020.9.5.10641,Conducted D2 Ref 30 dBm •Atten 30 dB *Avg PRSS LIMIT1 Log PRSS LIMIT1 Log Center 819.00 MHz Span 20 MHz	Freq/Channel Center Freq 813.000000 MHz Start Freq 803.000000 MHz Stop Freq 823.000000 MHz CF Step 2.00000000 MHz Man Freq Offset 0.0000000 Hz	Agilent 01:08:30 Jun 11, 2020 Ch Freq 819 MHz Adj Channel Power	L Freq/Channel Trig Free Center Freq PRSS Start Freq 809.000000 MHz Stop Freq 829.0000000 MHz 2.0000000 MHz 2.0000000 MHz CF Step 2.0000000 MHz Stop Freq 9.0000000 MHz Freq Offset 9.0000000 MHz 0.000000 MHz
•Res BW 15 kHz •VBW 47 kHz •Sweep 267.9 ms (1001 pts) RMS Results Freq Offset Ref BH dbc Lower dBn dBc Upper dBn Carrier Power 5.150 MHz 100.0 kHz -66.61 -40.91 -81.32 -55.62 10.0000 MHz Copyright 2000-2011 Agilent Technologies	Signal Track	•Res BH 100 kHz •VBH 300 kHz Sweep 6. RMS Results Freq Offset Ref BH dbc Lower dBm Carrier Power 5.150 MHz 100.0 kHz -82.90 -57.31 18.8080 MHz 190.0 kHz -82.90 -57.31 -57.31 Copyright 2000-2010 Agilent Technologies LTE B26 10MHz QPSK Middle -57.31 -57.31	
** Agilent 01:06:42 Jun 11 Ch Freq 819 Adj Channel Power AP2020.5.13,19467.Conducte Ref 30 dBm •Rtten *Hvg •PASS Log •PASS 10 dB/ 01 •PASS 10 ·PASS 11 ·PASS 01 ·PASS 10 ·PASS 10 ·PASS 10 ·PASS 10 ·PASS 10 ·PASS 10 ·PASS 11 ·PASS 12 ·PASS 13.000 0 14.00 Hz •Res BH 100 Hz 25.27 dBm / ·18.0000 18.0000 MHz ·19.000 25.27 dBm / ·18.0000 18.0000 MHz ·10.000 25.27 dBm / ·18.0000 18.0000 MHz ·10.0000	I, 2020 IMHz ad B2 30 dB •VBW 300 kHz •VBW 300 kHz Ref BU 188.0 kHz -78.60	L Freq/Channel Trig Free PRSS Center Freq 319,000000 MHz Start Freq Start Freq 803,000000 MHz Stop Freq 829,000000 MHz Stop Freq 829,000000 MHz Stop Freq 829,000000 MHz Stop Freq 829,000000 MHz Span 20 MHz CF Step Span 20 MHz 0.0000000 MHz Syme 0,553 ms (8192 pts) Signal Track ar dBm dBc Upper dBm -53.32 -52.49 -27.22	

Page 183 of 445

8.2.10. LTE BAND 30 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 2328 and 2337 MHz;

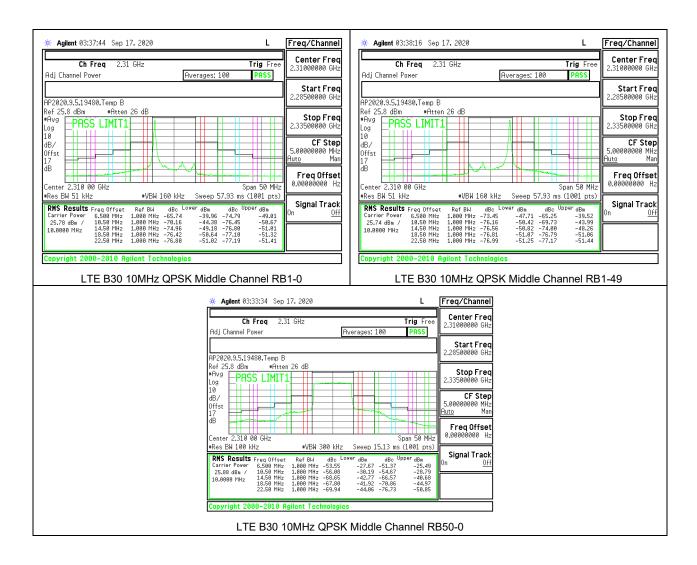
(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70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

Page 184 of 445



Page 185 of 445



Page 186 of 445

8.2.11. LTE BAND 41 AND n41 ADJACENT CHANNEL POWER

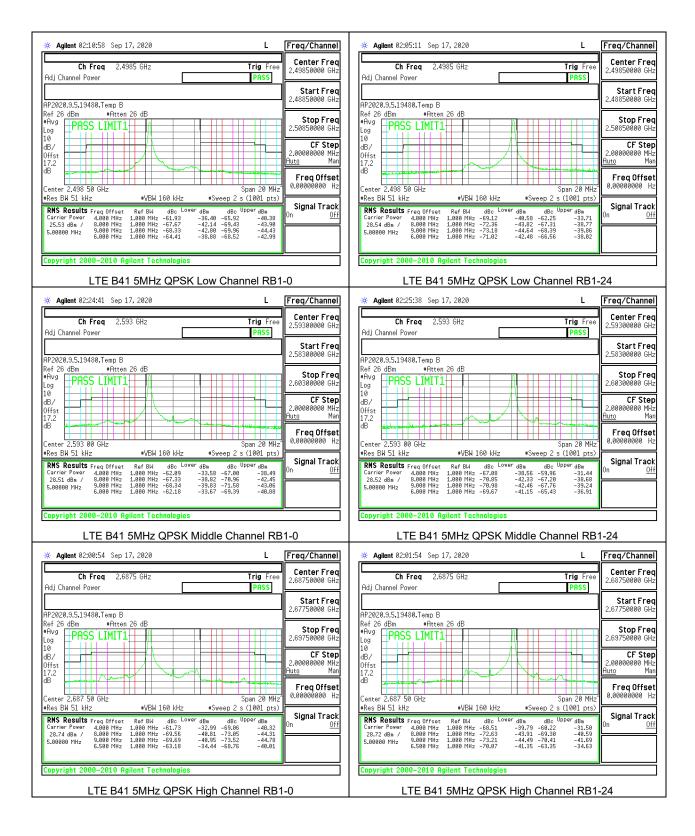
LIMITS

FCC: §27.53

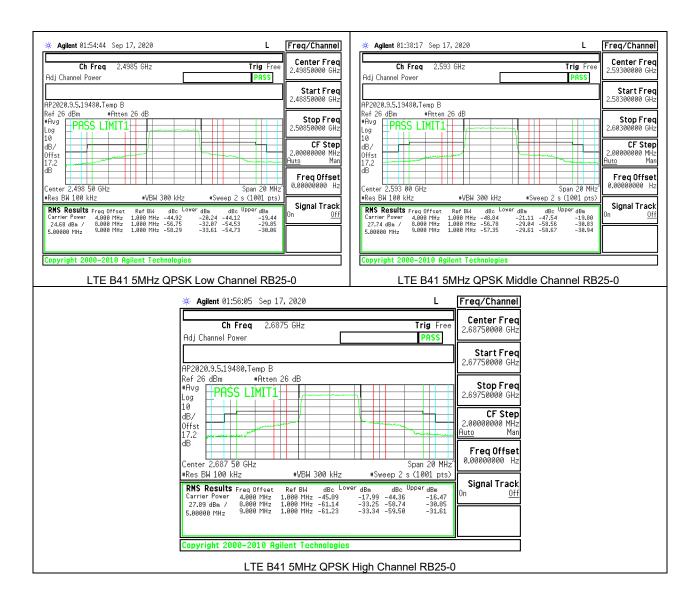
(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between 5 between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 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.

Page 187 of 445

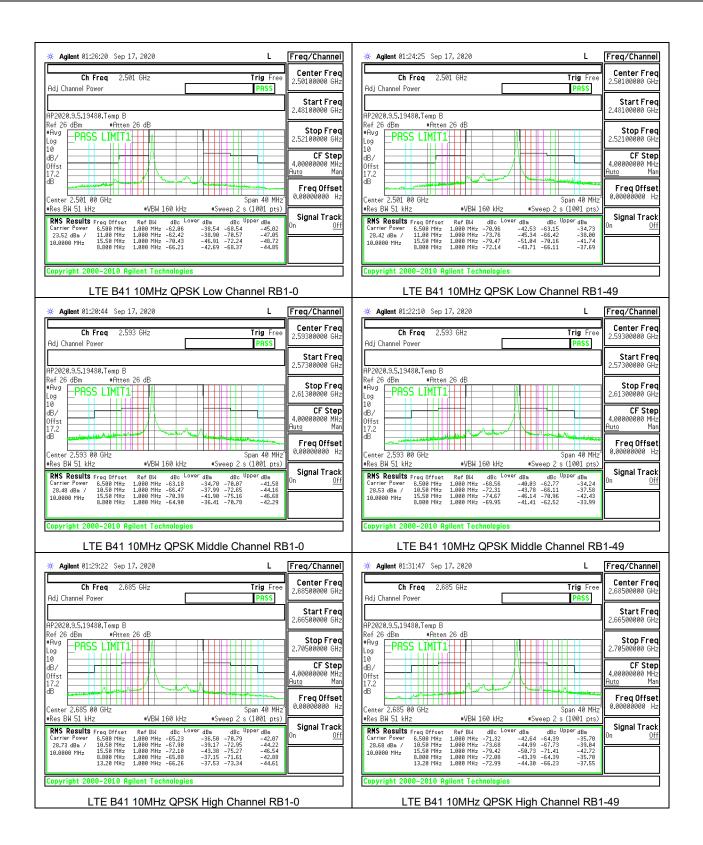
LTE BAND 41 ADJACENT CHANNEL POWER



Page 188 of 445

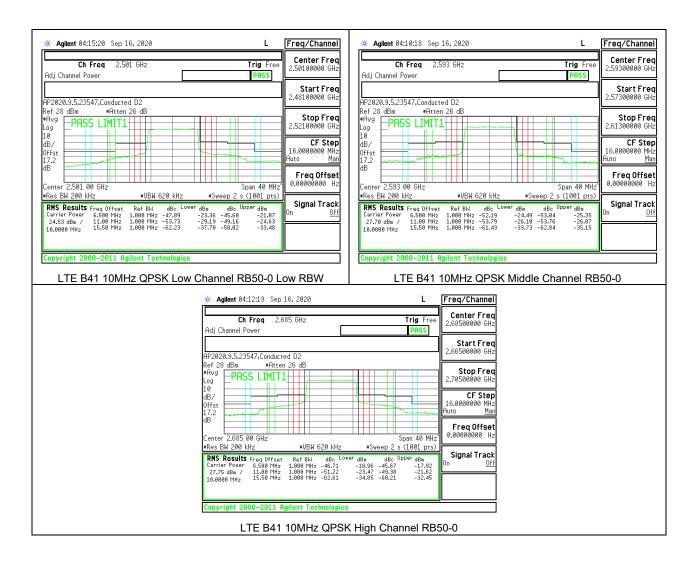


Page 189 of 445

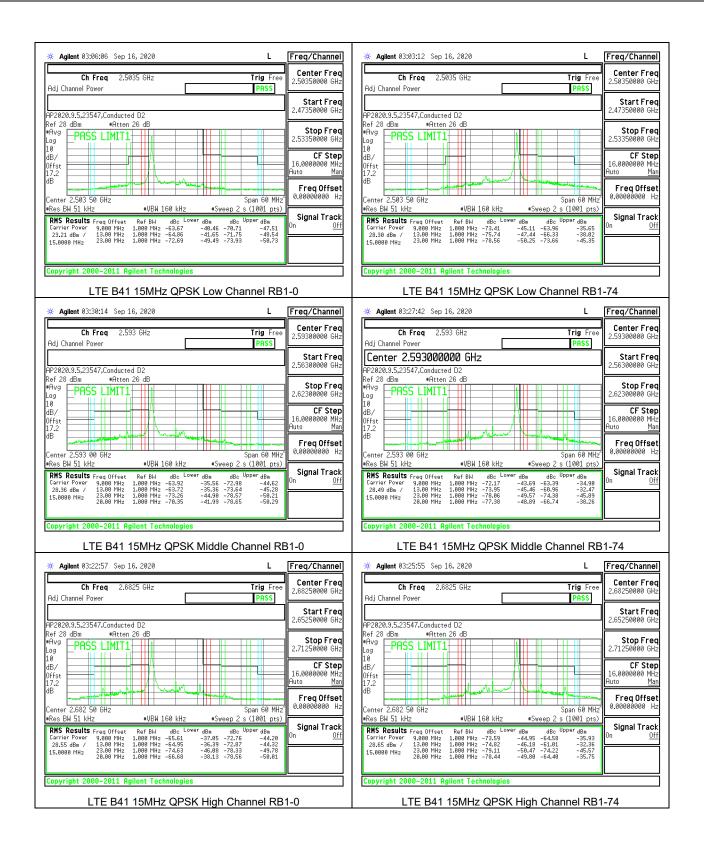


Page 190 of 445

UL VERIFICATION SERVICES INC. 47173 BENICIA STREET, FREMONT, CA 94538, USA This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc. FAX: (510) 661-0888

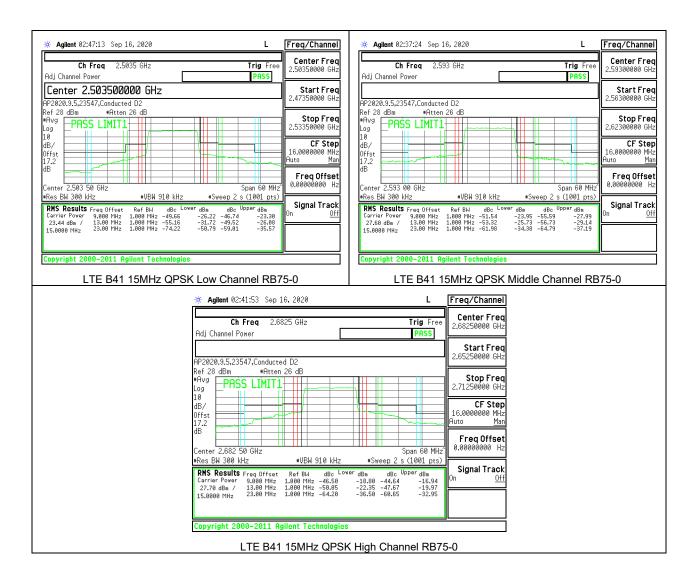


Page 191 of 445

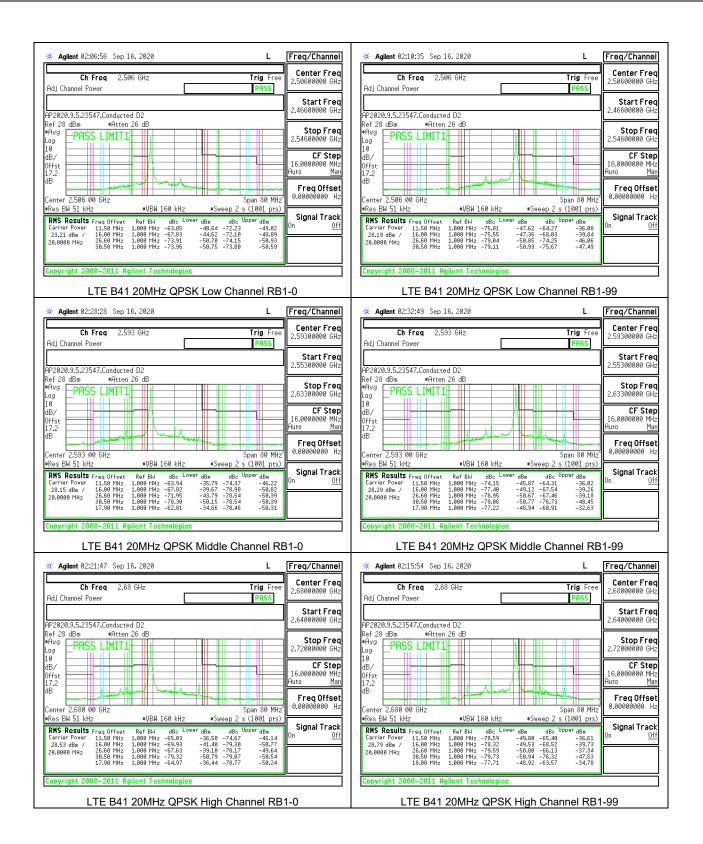


Page 192 of 445

UL VERIFICATION SERVICES INC. 47173 BENICIA STREET, FREMONT, CA 94538, USA This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc. FAX: (510) 661-0888

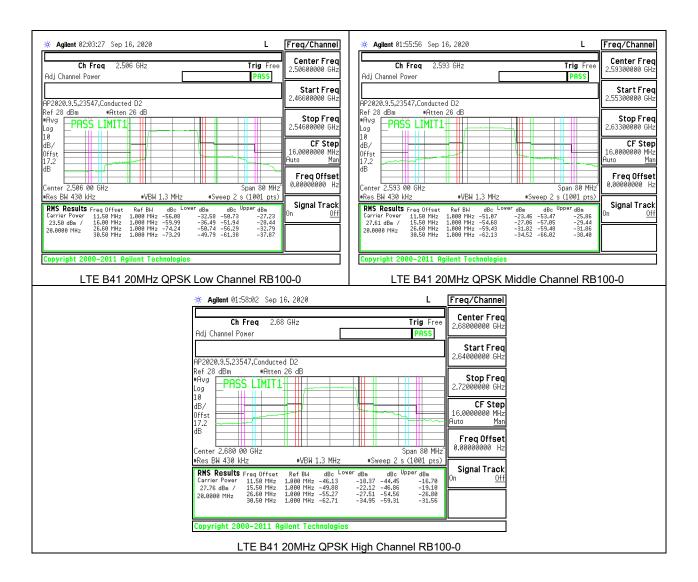


Page 193 of 445



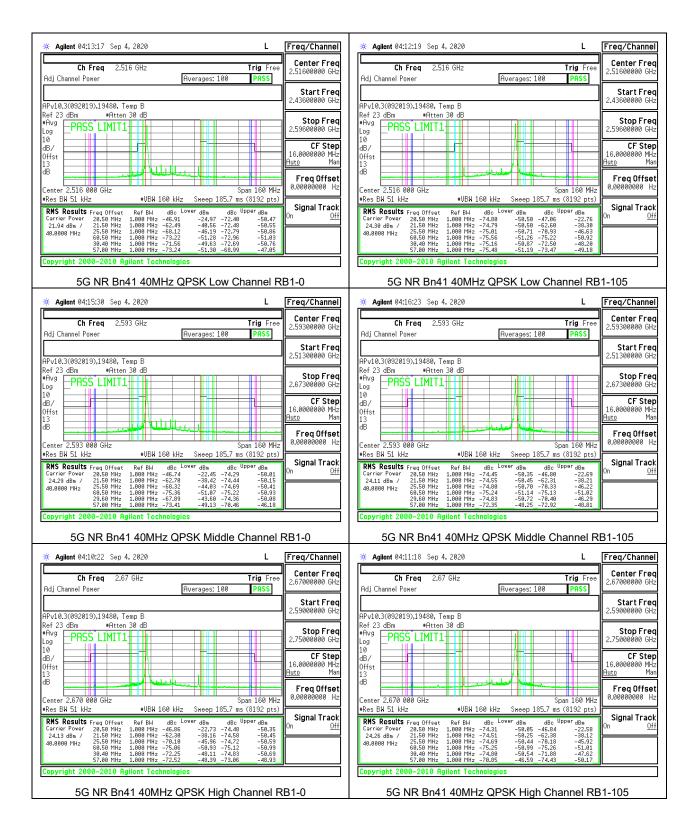
Page 194 of 445

UL VERIFICATION SERVICES INC. 47173 BENICIA STREET, FREMONT, CA 94538, USA This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc. FAX: (510) 661-0888



Page 195 of 445

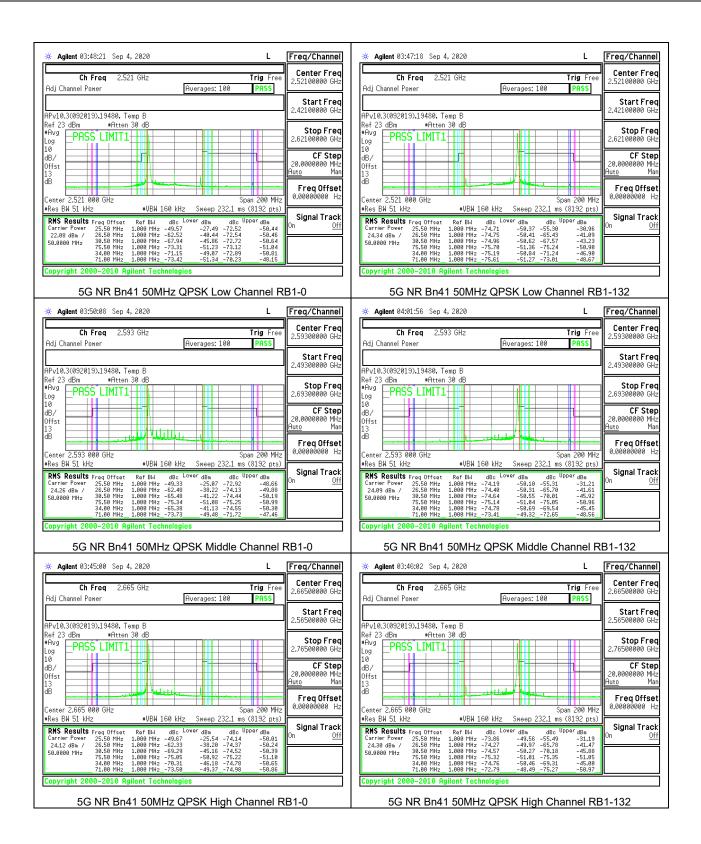
5G NR BAND n41 ADJACENT CHANNEL POWER



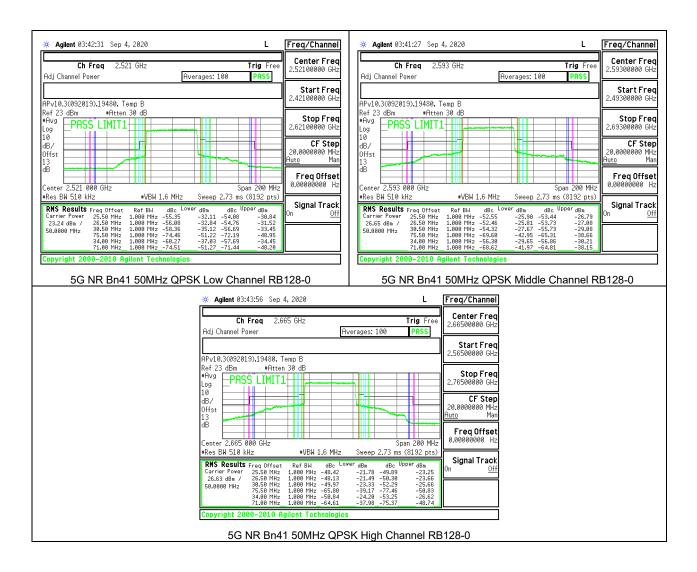
Page 196 of 445



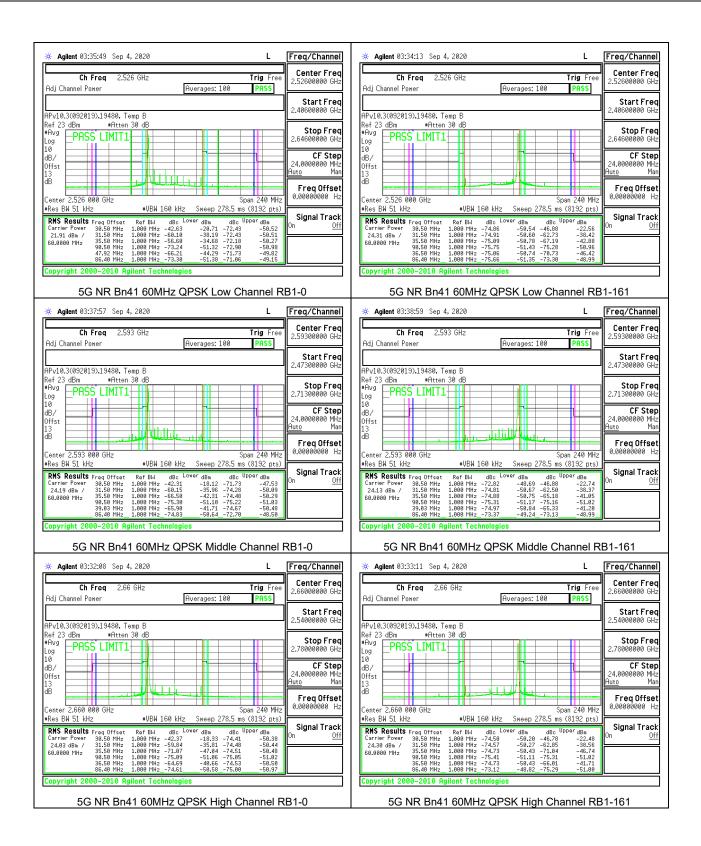
Page 197 of 445



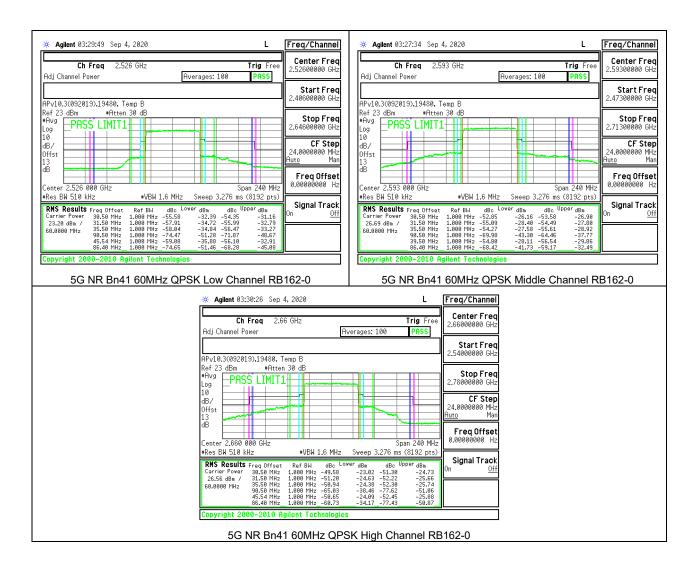
Page 198 of 445



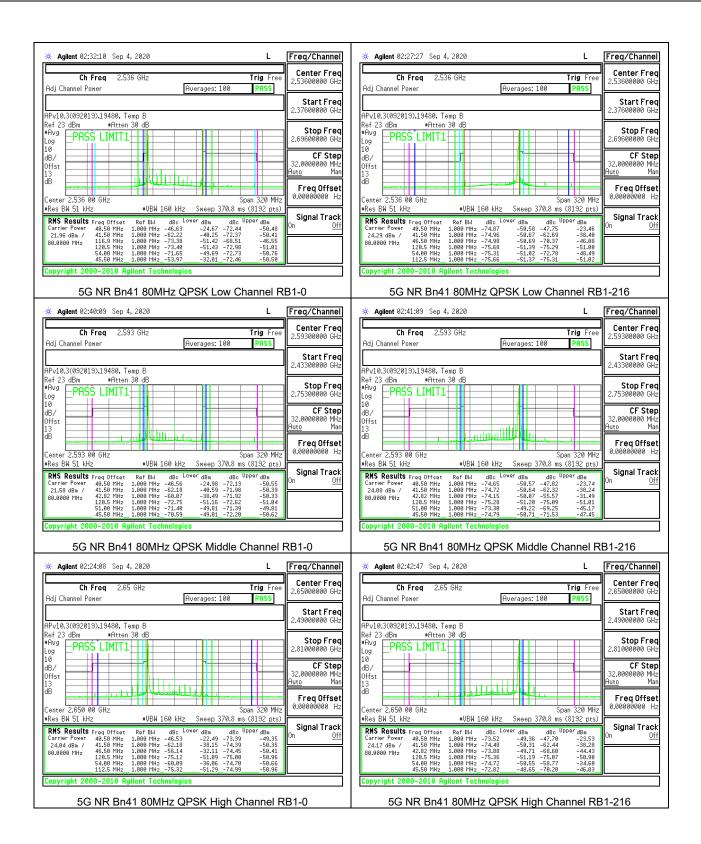
Page 199 of 445



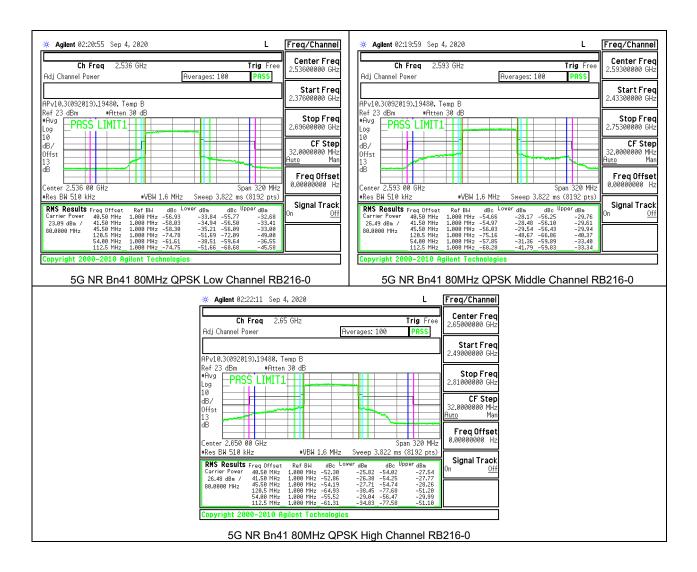
Page 200 of 445



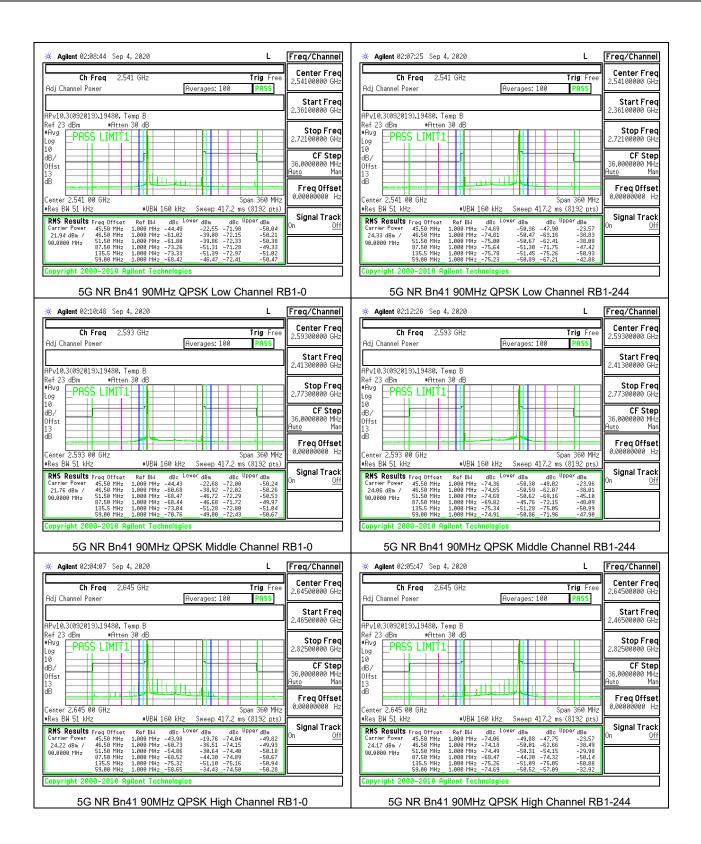
Page 201 of 445



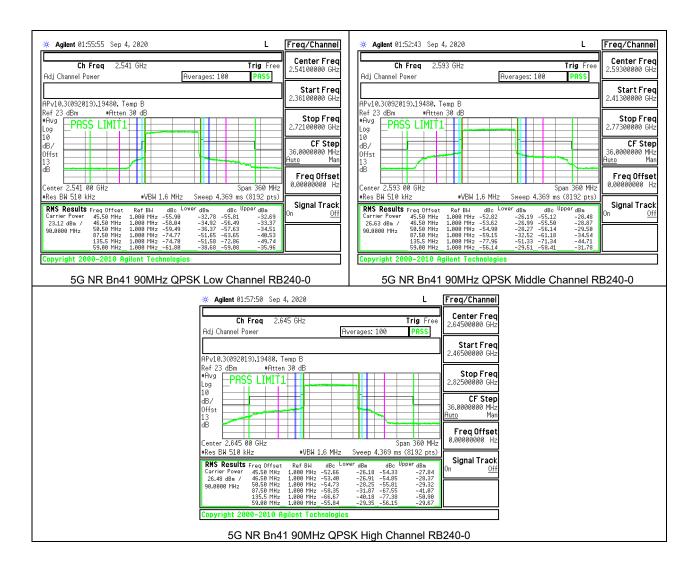
Page 202 of 445



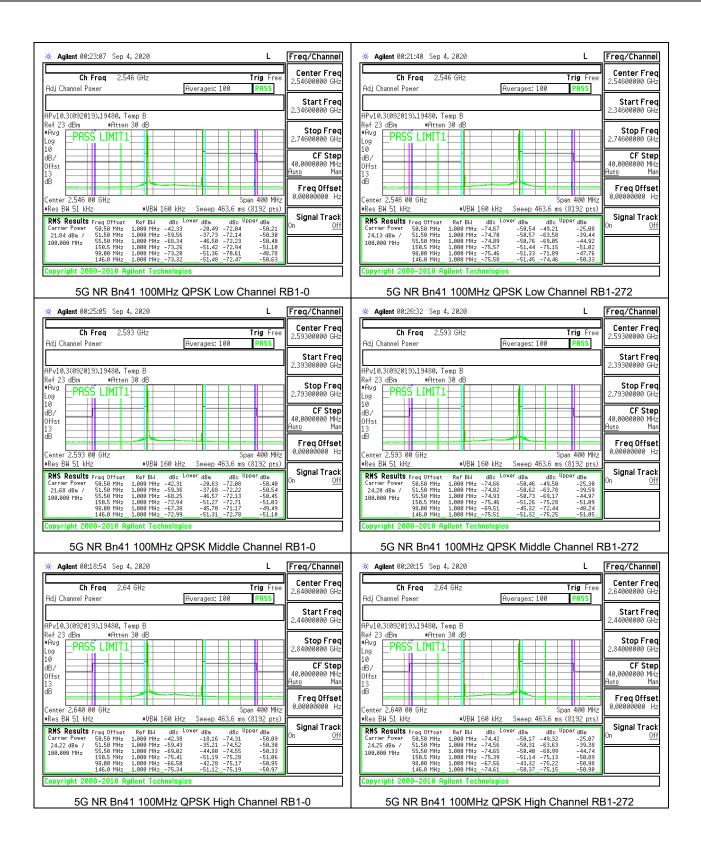
Page 203 of 445



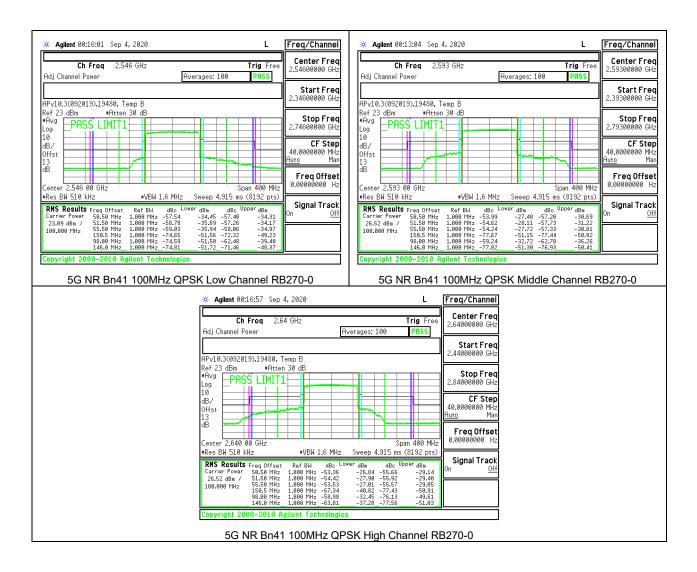
Page 204 of 445



Page 205 of 445



Page 206 of 445



Page 207 of 445

8.2.12. LTE BAND 48 ADJACENT CHANNEL POWER

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits-

(1) General protection levels

(ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

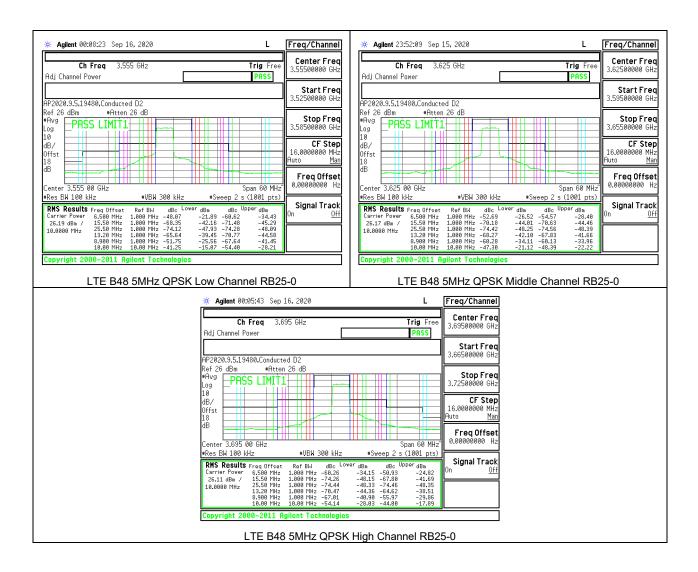
(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Page 208 of 445

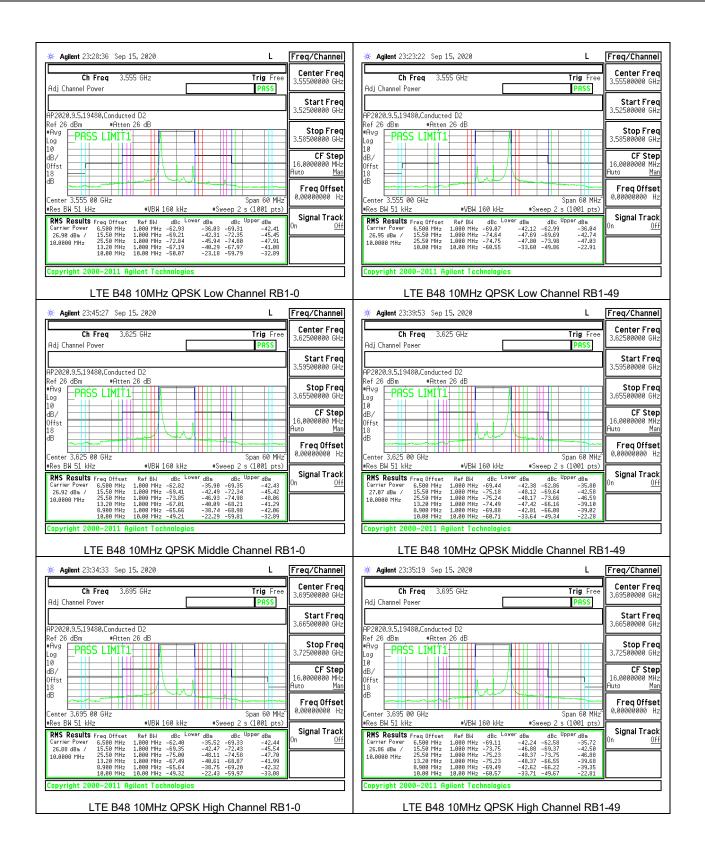
LTE BAND 48 ADJACENT CHANNEL POWER



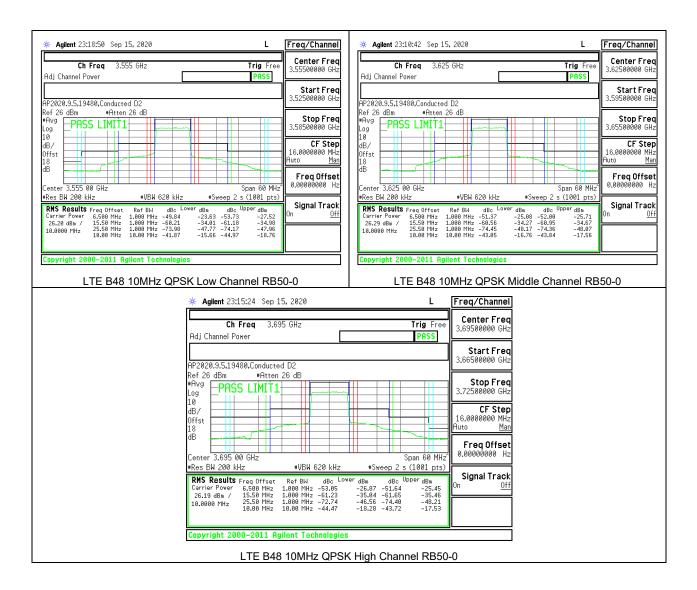
Page 209 of 445



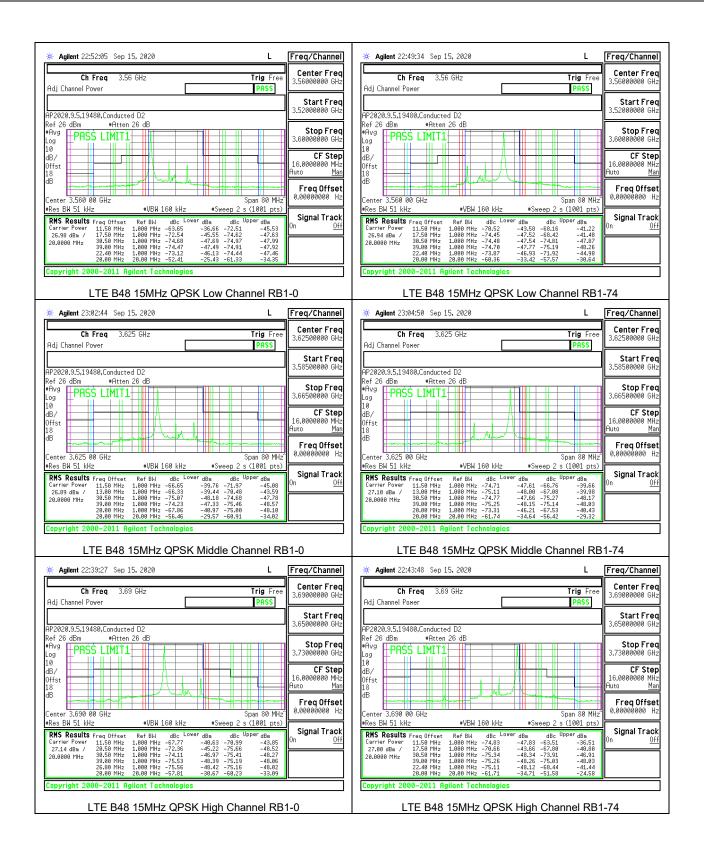
Page 210 of 445



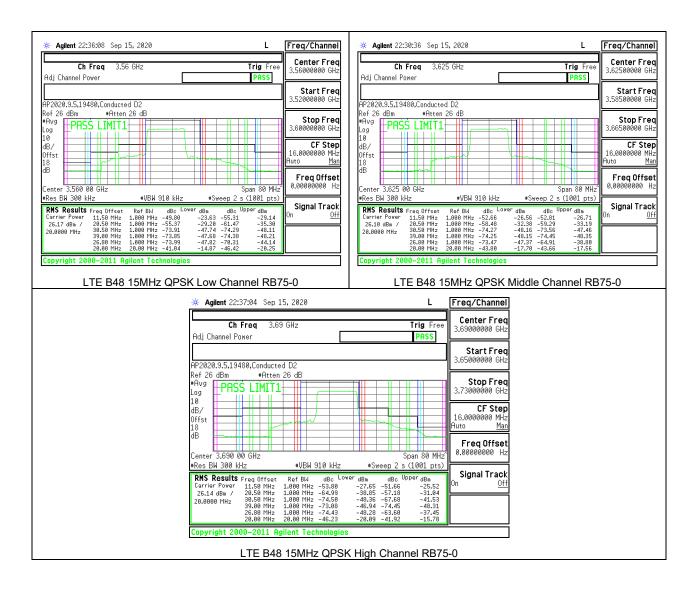
Page 211 of 445



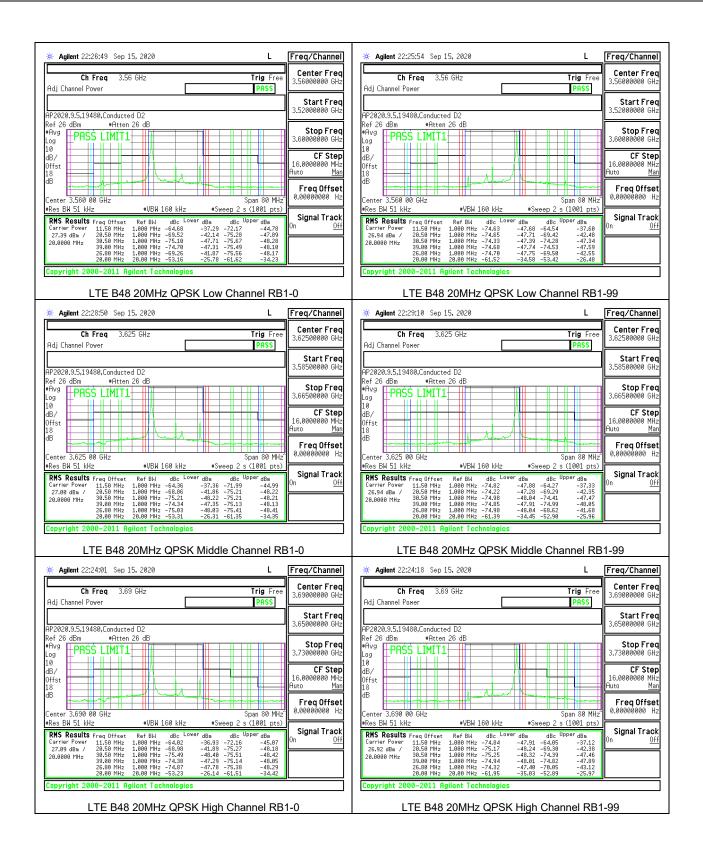
Page 212 of 445



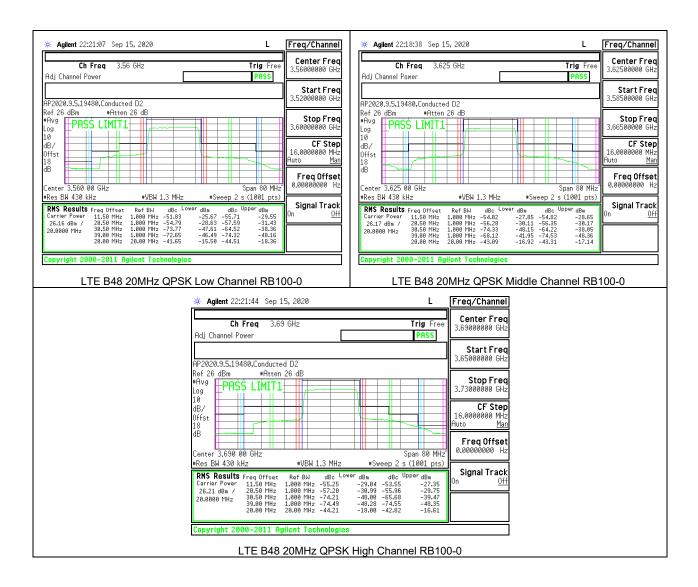
Page 213 of 445



Page 214 of 445



Page 215 of 445



Page 216 of 445

8.2.13. LTE BAND 66 BANDEDGE

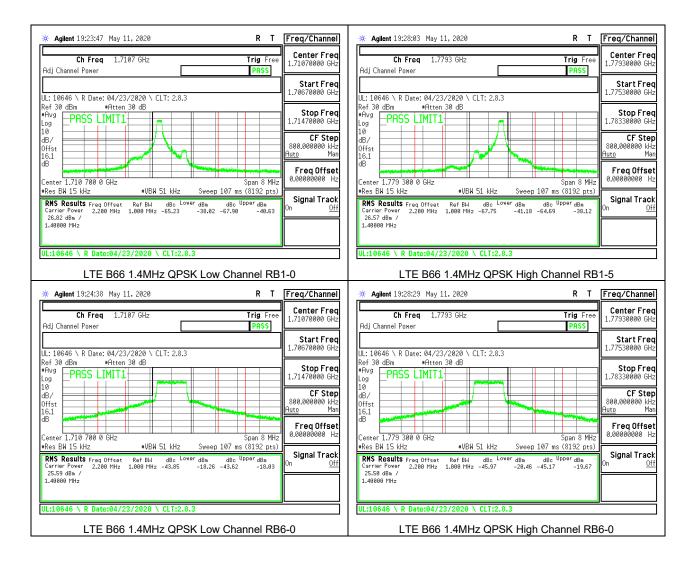
LIMITS

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.

Page 217 of 445

LTE BAND 66 BANDEDGE



Page 218 of 445

* Agilent 19:31:02 May 11, 2020 R T Freq/Channel	* Agilent 19:34:58 May 11, 2020 R T Freq/Channel
Ch Freq 1.7115 GHz Trig Free Center Freq Adj Channel Power PRSS 1.71150000 GHz 1.71150000 GHz	Ch Freq 1.7785 GHz Trig Free Center Freq Adj Channel Power PASS 1.77850000 GHz 1.77850000 GHz
UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMITE Log 1.71650000 GHz	Ref 30 dBm •Atten 30 dB •Avg PRSS_LIMIT1
10 dB/ Offst	10 dB/ Offst CF Step 1.0000000 MHz
16.1 dB Freq Offset 0.00000000 Hz	16.1 dB Freq Offset 0.00000000 Hz
eRes BW 15 kHz #VBW 51 kHz Sweep 133.2 ms (8192 pts) IDWS Desults Even Officer Park Hz Lover don do Upper don	Center 1.778 500 0 GHz Span 10 MHz *Res BW 15 kHz #VBW 51 kHz Sweep 133.2 ms (8192 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm
Carrier Pover 3,000 MHz 1,000 MHz -55,54 -38,58 -66,74 -41,78	Carriar Power 3,060 MHz 1,060 MHz -67,67 -42,48 -59,57 -33,69 0n 0ff 25,48 dBm // 3,0606 MHz 1,060 MHz -67,67 -42,48 -59,57 -33,69
UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3	UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B66 3MHz QPSK Low Channel RB1-0	LTE B66 3MHz QPSK High Channel RB1-14
# Agilent 06:08:22 Sep 16, 2020 R T Freq/Channel	* Agilent 06:12:01 Sep 16, 2020 R T Freq/Channel
Ch Freq 1.7115 GHz Trig Free Center Freq Adj Channel Power PRSS 1.71150000 GHz	Center Freq Ch Freq 1.7785 GHz Trig Free Adj Channel Power PRSS
UL: 19467 \ R Date: 06/09/2020	UL: 19467 \ R Date: 06/09/2020
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1 Log 1.71650000 GHz	Ref 30 dBm +Atten 30 dB •Avg PRSS LIMIT1 Log 1.78350000 GHz
10 dB/ 0ffst 16.2 16.2 16.2 16.2 16.2 10000000 MHz 16.2 10000000 MHz 16.2 10000000 MHz 16.2 10000000 MHz 16.2 10000000 MHz 16.2 10000000 MHz 16.2 10000000 MHz 16.2 100000000 MHz 16.2 10000000000 MHz 16.2 100000000 MHz 100000000 MHz 16.2 100000000 MHz 100000000 MHz 1000000000000000000000000000000000000	10 dB/ Offst 16.2 0 0 0 0 0 0 0 0 0 0 0 0 0
International Control Internatinternatintereeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	IO.2 IO.2 <thio.2< th=""> IO.2 IO.2 <thi< td=""></thi<></thio.2<>
*Res BW 30 kHz *VBW 91 kHz Sweep 33.86 ms (8192 pts)	*Res BW 30 kHz *VBW 91 kHz Sweep 33.86 ms (8192 pts) Signal Track Signal Track Signal Track
Carrier Power / 3,000 MHz 1,000 MHz -42,57 -17,48 -41,94 -16,76 0n 0ff 25,19 db / 3,000 MHz 1,000 MHz -42,57 -17,48 -41,94 -16,76	Carrier Pover 5.080 HHz 1.080 HHz 48.37 -22.44 -46.33 -28.91 On Off 25.93 490 HHz 3.080 HHz 1.090 HHz -46.37 -22.44 -46.33 -28.91
UL:19467 \ R Date:06/09/2020	UL:19467 \ R Date:06/09/2020
LTE B66 3MHz QPSK Low Channel RB15-0	LTE B66 3MHz QPSK High Channel RB15-0

Page 219 of 445

* Agilent 19:37:56 May 11, 2020 R T Freq/Channel	* Agilent 19:41:30 May 11, 2020 R T Freq/Channel
Ch Freq 1.7125 GHz Trig Free Center Freq Adj Channel Power PRSS 1.71250000 GHz	Ch Freq 1.7775 GHz Center Freq Adj Channel Power PASS 1.77750000 GHz
UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 30 dBm •Atten 30 dB Stop Freq •Avg PASS LIMIT1 1.72000000 GHz	Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1 1 <th1< th=""> <th1< th=""> 1 <th< td=""></th<></th1<></th1<>
10 dB/ 0ffst 16.1 1.50000000 MHz Auto Man	10 dB/ Offst 16.1 1.50000000 MHz Auto Man
dB Center 1.712 500 0 GHz Center 1.712 500 0 GHz Center 1.712 500 0 GHz Center 1.712 500 0 GHz	dB Freq Offset Center 1.777 500 0 GHz Span 15 MHz
•Res BW 15 kHz #VBW 51 kHz Sweep 199.9 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 4.808 MHz 1.808 MHz -56.78 -30.27 -68.90 -42.40 S.808080 MHz 5.808080 MHz 1.808 MHz -56.78 -30.27 -68.90 -42.40	•Res BW 15 kHz #VBW 51 kHz Sweep 199.9 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 4.808 MHz 1.808 MHz 68.58 -42.52 -58.98 -32.73 5.808080 MHz 5.808080 MHz 1.808 MHz 68.58 -42.52 -58.98 -32.73
UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3	UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B66 5MHz QPSK Low Channel RB1-0	LTE B66 5MHz QPSK High Channel RB1-24
* Agilent 06:15:38 Sep 16, 2020 R T Freq/Channel	* Agilent 06:19:09 Sep 16, 2020 R T Freq/Channel
Ch Freq 1.7125 GHz Center Freq Adj Channel Power PASS 1.71250000 GHz	Ch Freq 1.7775 GHz Center Freq Adj Channel Power PRSS 1.77750000 GHz
UL: 19467 \ R Date: 06/09/2020	UL: 19467 \ R Date: 06/09/2020
Ref 30 dBm •Atten 30 dB *Avg Log 10 PASS LIMIT1 Stop Freq 1.72000000 GHz	Ref 30 dBm •Atten 30 dB Stop Freq •Avg PASS LIMIT1 1.78500000 GHz 10 1.78500000 GHz
dB/ Offst 16.2 Huto Man	dB/ CF Step 0ffst 1.50000000 MHz 16.2 Man
dB Freq Offset Center 1.712 500 0 GHz Span 15 MHz 0.00000000 Hz	dB Freq Offset Center 1.777 500 0 GHz Span 15 MHz Output Line Span 15 MHz
•Res BW 51 kHz •VBW 160 kHz Sweep 17.47 ms (8192 pts) RMS Results Freq Offset Carrier Power 4.000 MHz Ref BW dBc Lower dBm dBc Upper dBm On Off 25.59 dBm / 1.000 MHz 1.000 MHz -18.42 -42.98 -17.38 On Off	•Res BW 51 kHz •VBW 160 kHz Sweep 17.47 ms (8192 pts) RHS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Pover 4.000 MHz 1.000 MHz -48.38 -22.67 -44.85 -19.13
5.00000 MHz	5.00000 MHz
UL:19467 \ R Date:06/09/2020	UL:19467 \ R Date:06/09/2020

Page 220 of 445

** Agilent 19:44:33 May 11, 2020 R T Freq/Channel	** Agilent 19:48:16 May 11, 2020 R T Freq/Channel
Ch Freq 1.715 GHz Trig Free Center Freq 1.71500000 GHz Adj Channel Power PPSS 1.71500000 GHz 1.71500000 GHz 1.71500000 GHz	Ch Freq 1.775 GHz Trig Free 1.75500000 GHz Adj Channel Power PRSS1 1.77500000 GHz 1.77500000 GHz 1.77500000 GHz
UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 30 dBm •Atten 30 dB Stop Freq •Avg PASS LIMIT1 1.73000000 GHz	Ref. 30 dBm •filten 30 dB •flyg PR\$S LIMIT1 4 1.79000000 6Hz 1.79000000 6Hz 1.79000000 6Hz 1.79000000 6Hz
10 dB/ 0ffst 16.1 16	10 dB/ Offst 16.1 CF Step 3.00000000 MHz Auto Man
dB Center 1.715 000 GHz Span 30 MHz	dB Center 1.775 000 GHz Span 30 MHz 0.00000000 Hz
Res BW 15 kHz #VBW 51 kHz Sweep 399.7 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm Carrier Pover 6.500 MHz 1.000 MHz -66.19 -39.53 -72.23 -45.57 10.0000 MHz 10.000 MHz -66.19 -39.53 -72.23 -45.57	•Res BW 15 kHz •VBW 51 kHz Sweep 399.7 ms (8192 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 6.500 MHz 1.000 MHz -71.43 -46.06 -62.65 -37.28 On Off 18.000 MHz 12.000 MHz 10.000 MHz -71.43 -46.06 -62.65 -37.28 On Off
UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3	UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B66 10MHz QPSK Low Channel RB1-0	LTE B66 10MHz QPSK High Channel RB1-49
* Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel	# Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel
* Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Free Center Freq Adj Channel Power PRSS 1.71500000 GHz Start Freq UL: 19467 \ R Date: 06/09/2020 06/09/2020 1.7000000 GHz	Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Free Center Freq 1.77500000 GHz Adj Channel Power PRSS Start Freq 1.75000000 GHz UL: 19467 \ R Date: 06/09/2020 06/09/2020 1.76000000 GHz
** Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Free Center Freq Adj Channel Power PRSS 1.71500000 GHz 1.71500000 GHz UL: 19467 \ R Date: 06/09/2020 *Atten 30 dB *Atten 30 dB Stop Freq Log PRSS LIMIT 1 1.7300000 GHz	Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Free Adj Channel Power PRSS 1.7500000 GHz UL: 19467 \ R Date: 06/09/2020 8 Start Freq Ref 30 dBm *Atten 30 dB *Atten 30 dB *Atten 30 dB *Atten 30 dB 1.7900000 GHz
** Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Freq Adj Channel Power PRSS Center Freq 1.71500000 GHz UL: 19467 \ R Date: 06/09/2020 Start Freq 1.7000000 GHz Ref 30 dBm *Rtten 30 dB Stop Freq 10 CF Step 3.00000000 GHz 16.2 Wm Man	Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Free Center Freq Adj Channel Power PRSS 1.77500000 GHz 1.77500000 GHz UL: 13467 \ R Date: 06/09/2020 entremain Start Freq 1.76000000 GHz Hug PRSS IIII 1 1.79000000 GHz 1.79000000 GHz Log PRSS LIMIT 1 IIIII 1 IIIIII 1 1.79000000 GHz 0 B/ 0 GF Step 3.00000000 Hz 16.2 IIIIII 1 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
* Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Freq Adj Channel Power PRSS Center Freq 1.71500000 GHz UL: 19467 \ R Date: 06/09/2020 Ref 30 dBm •Rtten 30 dB Start Freq 1.70000000 GHz 1.70000000 GHz Stop Freq 1.73000000 GHz 162 GB Genter 1.715 000 GHz Span 30 MHz	Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Free Center Freq Adj Channel Power PRSS Start Freq 1.77500000 GHz UL: 13467 \ R Date: 06/09/2020 efftem 30 dB efftem 4 Start Freq Hug PRSS LIMIT1 Info@0000 Hz Stop Freq 1.73000000 Hz 3.00000000 Hz Stop Freq 1.73000000 Hz Stop Freq 1.73000000 Hz
* Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Freq Adj Channel Power PRSS 1.715 00000 GHz 1.71500000 GHz UL: 19467 \ R Date: 06/09/2020 eAtten 30 dB eAtten 30 dB Start Freq PRSS LIMIT1 Image: Construction of the start freq 1.70000000 GHz 16,2 PRSS LIMIT1 Image: Construction of the start freq 1.73000000 GHz B Image: Construction of the start freq Start Freq 1.70000000 GHz 16,2 Image: Construction of the start freq Start Freq 1.70000000 GHz B Image: Construction of the start freq Start Freq 1.70000000 GHz Center 1.715 000 GHz Image: Construction of the start freq Start Freq 1.70000000 GHz Center 1.715 000 GHz Image: Construction of the start freq Start Freq Start Freq Center 1.715 000 GHz Image: Construction of the start freq Start Freq Start Freq Center 1.715 000 GHz Image: Construction of the start freq Start Freq Start Freq Center 1.715 000 GHz Image: C	** Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Free Center Freq Adji Channel Power PRSS PRSS Start Freq 1.7500000 GHz UL: 19467 \ R Date: 06/09/2020 eftten 30 dB eftten 30 dB Start Freq *Hvg PRSS LIMIT 1 Image: start freq 1.76000000 GHz 1.76000000 GHz 0B/ Offst Image: start freq Image: start freq 1.7900000 GHz 1.79000000 GHz GB Image: start freq Image: start freq Image: start freq Image: start freq 1.79000000 GHz GB Image: start freq Image: start freq Image: start freq Image: start freq GB Image: start freq Image: start freq Image: start freq Image: start freq GB Image: start freq Image: start freq Image: start freq Image: start freq GB Image: start freq Image: start freq Image: start freq Image: start freq GB Image: start freq Image: start
** Agilent 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Freq Adj Channel Power PRSS Center Freq 1.71500000 GHz UL: 19467 \ R Date: 06/09/2020 Ref 30 dBm *Rtten 30 dB Start Freq 10 PRSS LIMIT1 CF Step 16.2 dB Span 30 MHz Stop Freq 16.2 Genter 1.715 000 GHz Span 30 MHz Stop Step *Res BH 100 HHz •VBH 300 HHz Sweep 3.283 ms (8132 pts) Signal Track Signal Track On Off Off Signal Track	* Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Freq Rdj Channel Power PRSS Center Freq 1.77500000 GHz UL: 13467 \ R Date: 06/09/2020 eften 30 dB eften 30 dB Start Freq Hug PRSS LIMIT 1 CF Step Stop Freq 1.79000000 GHz 3.00000000 GHz 3.00000000 Hz 16.2 GB Stop Freq dB CF Step 3.0000000 Hz eRes BH 100 KHz eVBH 300 KHz Sweep 9.283 ms (8192 pts) RMS Results Freq Offset ev BH 1.400 MHz dbc Lower dBm dbc Upper dBm Carrier Power 5.560 MHz 2.060 - Cover dBm dbc Upper dBm On
* Aglient 06:22:52 Sep 16, 2020 R T Freq/Channel Ch Freq 1.715 GHz Trig Free Adj Channel Power PRSS 1.71500000 GHz 1.71500000 GHz UL: 13467 \ R Date: 06/09/2020 efter PRSS Start Freq UL: 13467 \ R Date: 06/09/2020 efter 0.8000000 GHz 1.70000000 GHz U.: 13467 \ R Date: 06/09/2020 efter 0.8000000 GHz 1.70000000 GHz U.: 13467 \ R Date: 06/09/2020 efter 0.70000000 GHz 1.70000000 GHz Cog efter 9.855 LIMIT1 1.0000000 GHz 1.70000000 GHz 0.8 efter efter 9.855 LIMIT1 1.70000000 GHz 1.70000000 GHz 0.8 ga efter 9.715 000 GHz efter 1.70000000 GHz 1.70000000 GHz 0.00000000 Hz 0.8 ga efter 9.8 9.0000000 Hz 0.0000000 Hz 0.0000000 Hz 0.00000000 Hz 0.8 ga efter 1.800 MHz 48.0 Lower dBm dBc Upper dBm 0.0000000 Hz 0.0000000 Hz	** Agilent 06:26:34 Sep 16, 2020 R T Freq/Channel Ch Freq 1.775 GHz Trig Free Center Freq Adji Channel Power PRSS PRSS 1.77500000 GHz 1.77500000 GHz UL: 19467 \ R Date: 06/09/2020 efter PRSS Start Freq UL: 19467 \ R Date: 06/09/2020 efter 0.8000000 GHz 1.75000000 GHz *Hvg PRSS LIMIT 1 V/V V/V 0.0000000 GHz 0ffst 0 0 0 0.8000000 GHz 1.79000000 GHz B 0 0 0 0 0.80000000 Hz 1.79000000 GHz Wes BN 100 KHz *VEN 300 KHz Sweep 9.283 ms (8192 pts) 0.80000000 Hz 0.80000000 Hz Carrier Power 5.900 KHz 1.900 MHz -21.67 -45.42 -19.23 Signal Track 0n 0 0 0 0 0 0 0

Page 221 of 445

* Agilent 19:51:22 May 11, 2020 R T Freq/Channel	* Agilent 19:55:12 May 11, 2020 R T Freq/Channel
Ch Freq 1.7175 GHz Center Freq Rdj Channel Power PRSS 1.71750000 GHz	Center Freq Ch Freq 1.7725 GHz Trig Free Adj Channel Power PRSS
UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1	Ref 30 dBm •Atten 30 dB •Avg PRSS LIMITI 1.79000000 6Hz
10/ dB/ 0ffst / /	10 dB/ 0ffst 16.1 16
Ion Freq Offset 0B Center 1.717 500 GHz Span 35 MHz	10.1 A Freq Offset dB A Freq Offset Center 1.772 500 GHz Span 35 MHz 0.0000000 Hz
#Res BW 15 kHz #VBW 51 kHz Sweep 466.3 ms (8192 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 9.000 MHz -66.05 -39.12 -74.06 -47.13 0n Off	Res BW 15 kHz #VBW 51 kHz Sweep 466.3 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 9.000 MHz 1.000 MHz -73.16 -46.71 -54.48 -38.09 On Off
26.93 dBm / 15.0000 MHz	26.45 d8m / 15.0000 MHz
UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3	UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B66 15MHz QPSK Low Channel RB1-0	LTE B66 15MHz QPSK High Channel RB1-74
* Agilent 06:32:52 Sep 16, 2020 R T Freq/Channel	# Agilent 06:38:31 Sep 16, 2020 R T Freq/Channel
Center Freq Ch Freq 1.7175 GHz Trig Free Adj Channel Power PASS	Ch Freq 1.7725 GHz Trig Free 1.77250000 GHz 1.77250000 GHz
UL: 19467 \ R Date: 06/09/2020 Start Freq 1.70000000 GHz	UL: 19467 \ R Date: 06/09/2020
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1	Ref 30 dBm •fitten 30 dB •flvg PRSS LIMIT1 Log 1.79000000 GHz
10 dB/ Offst 16.2 CF Step 3.5000000 MHz <u>Auto</u> Man	10 dB/ Offst 16.2 CF Step 3.50000000 MHz <u>Auto</u> Man
dB Center 1.717 500 GHz Span 35 MHz 0.00000000 Hz	dB Center 1.772 500 GHz Span 35 MHz 0.00000000 Hz
Res BM 150 kHz *VBM 510 kHz Sweep 4.915 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm 0n Off Carrier Power 9.808 MHz 1.808 MHz -45.35 -28.03 -45.47 -20.15 On Off	*Res BW 150 kHz *VBW 510 kHz Sweep 4.315 ms (81.92 pts) RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Carrier Power 9.000 MHz 1.000 MHz -23.50 -49.43 -23.91 On Off
25.32 dBm / 15.0000 MHz	25.52 dBm / 15.0000 MHz
UL:19467 \ R Date:06/09/2020	UL:19467 \ R Date:06/09/2020
LTE B66 15MHz QPSK Low Channel RB75-0	LTE B66 15MHz QPSK High Channel RB75-0

Page 222 of 445

* Agilent 19:58:22 May 11, 2020 R T Freq/Channel	* Agilent 20:02:15 May 11, 2020 R T Freq/Channel
Ch Freq 1.72 GHz Trig Free Center Freq 1.72000000 GHz 1.72000000 GHz	Ch Freq 1.77 GHz Trig Free Center Freq Adj Channel Power PASS 1.77000000 GHz 1.77000000 GHz
UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3	UL: 10646 \ R Date: 04/23/2020 \ CLT: 2.8.3
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1 1.74000000 GHz	Ref 30 dBm •Atten 30 dB •Atvg PASS LIMIT1 Log 1.79000000 GHz
10/ dB/ Offst	10/ dB/ 0ffst
16.1 dB Center 1.720 000 GHz Center 1.720 000 GHz	16.1 dB Center 1.770 000 GHz Center 1.770 GHZ Center 1
Res BW 15 kHz #VBW 51 kHz Sweep 533 ms (8192 pts) Signal Track Signal Track	*Res BW 15 kHz *VBW 51 kHz Sweep 533 ms (8192 pts) Signal Track Signal Track Signal Track
Carrier Power 11.50 MHz 1.800 MHz -66.64 -39.23 -75.08 -47.68 Un Utt 27.41 dBm / 28.8000 MHz	Carrier Pover 11,50 MHz 1.000 MHz -75.49 -47.90 -66.51 -38.92
UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3	UL:10646 \ R Date:04/23/2020 \ CLT:2.8.3
LTE B66 20MHz QPSK Low Channel RB1-0	LTE B66 20MHz QPSK High Channel RB1-99
★ Agilent 06:41:33 Sep 16, 2020 R T Freq/Channel	★ Agilent 06:51:48 Sep 16, 2020 R T Freq/Channel
Ch Freq 1.72 GHz Trig Free 1.72000000 GHz 1.72000000 GHz	Ch Freq 1.77 GHz Trig Free 1.77000000 GHz 1.77000000 GHz
UL: 19467 \ R Date: 06/09/2020	UL: 19467 \ R Date: 06/09/2020
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT Log 1.74000000 GHz	Ref 30 dBm •Atten 30 dB Stop Freq •Avg PRSS LIMIT1 1.79000000 GHz
10/ dB/ Offst	10 dB/ Offst 16.2 Huto Man
16.2 dB Center 1.720 000 GHz Center 1.720 000 GHz	dB Freq Offset
	Center 1 770 000 GHz Span 40 MU- 0.00000000 HZ
Res BW 200 kHz *VBW 620 kHz Sweep 3.276 ms (8192 pts) Signal Track Signal Track Signal Track	Results Freq Offset Ref Bil dBc Lover dBm dbc Upper dBm db Cover dBm dbc Upper dBm dbc Cover dBm dbc dbc dbc dbc dbc dbc db
#Res BW 200 kHz #VBW 620 kHz Sweep 3.276 ms (8192 pts)	■Res BW 200 kHz ■VBW 620 kHz Sweep 3.276 ms (8192 pts)
•Res BH 200 kHz •VBW 620 kHz Sweep 3.276 ms (8192 pts) Signal Track TMS Results Freq Offset Ref BH dBc Lower dBm dBc Upper dBm Carrier Power 11.50 MHz 1.0000 MHz -45.58 -28.17 -46.83 -21.42 On Off 28.0000 MHz 28.0000 MHz 0000 MHz </td <td>RMS Results +VBH 620 kHz Sweep 3.276 ms (8192 pts) RMS Results Freq 0ffset Ref BW dBc Lover dBm dBc Upper dBm 0n 0ff 25.57 dB/ 1.9808 MHz -48.85 -23.28 -51.67 -26.11 0ff</td>	RMS Results +VBH 620 kHz Sweep 3.276 ms (8192 pts) RMS Results Freq 0ffset Ref BW dBc Lover dBm dBc Upper dBm 0n 0ff 25.57 dB/ 1.9808 MHz -48.85 -23.28 -51.67 -26.11 0ff
Res BH 200 kHz *VBW 620 kHz Sweep 3.276 ms (8192 pts) Signal Track RMS Results Freq Offset Ref BH dBc Lover dBm dBc Upper dBm On Off Carrier Pover 11.50 MHz 1.000 MHz -45.58 -20.17 -46.83 -21.42 On Off	•Res BX 200 kHz •VBH 620 kHz Sweep 3.276 ms (8192 pts) •Res BX 200 kHz •VBH 620 kHz Sweep 3.276 ms (8192 pts) •Res BX 500 kHz •VBH 620 kHz Sweep 3.276 ms (8192 pts) •Signal Track 0n Official state Official state

Page 223 of 445

8.2.14. LTE BAND 71 ADJACENT CHANNEL POWER

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.

Page 224 of 445



Page 225 of 445

₩ Agilent 12:00:04 May 13, 2020 R T	Freq/Channel	★ Agilent 12:03:39 May 13, 2020	R T	Freq/Channel
Ch Freq 665.5 MHz Trig Free Adj Channel Power PRSS	Center Freq 665.500000 MHz	Ch Freq 680.5 MHz Adj Channel Power	Trig Free PASS	Center Freq 680.500000 MHz
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3	Start Freq 660.500000 MHz	UL: 38602 \ R Date: 04/23/2020 \ CLT:	2.8.3	Start Freq 675.500000 MHz
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1	Stop Freq 670.500000 MHz	Ref 30 dBm •Atten 30 dB •Avg Log PASS LIMIT1		Stop Freq 685.500000 MHz
10 dB/ Offst	CF Step 1.00000000 MHz Auto Man	10 dB/ Offst		CF Step 1.00000000 MHz Auto Man
	Freq Offset	15 dB		Freq Offset
Center 665.50 MHz ^ Span 10 MHz #Res BW 30 kHz #VBW 91 kHz #Sweep 1 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track	Center 680.50 MHz #Res BW 30 kHz #VBW 91 RMS Results Freq Offset Ref BW d	^ Span 10 MHz kHz #Sweep 1 s (1001 pts) Bc Lower dBm dBc Upper dBm	Signal Track
Carrier Power 2,650 MHz 100.0 kHz -59.05 -34.88 -58.19 -33.22 24.97 dBm / 5.080000 MHz	0n <u>0ff</u>	Carrier Power 2.650 MHz 100.0 kHz -50 24.85 dBm / 5.00000 MHz	.41 -31.56 -56.86 -32.01	On <u>Off</u>
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3		UL:38602 \ R Date:04/23/2020 \ Cl	T:2.8.3	
LTE B71 5MHz QPSK Low Channel RB25	5-0	LTE B71 5MHz QP	SK Middle Channel RB2	25-0
i → Agilent 12:07:13 May	13, 2020	R T Freq/Chan	nel	
Ch Freq 695	5.5 MHz	Trig Free 695.500000		
Adj Channel Power		PASS	_	
UL: 38602 \ R Date: 04/2	3/2020 \ CLT· 2.8.3	Start Fr 690.500000		
Ref 30_dBm #Atter	1 30 dB	Stop Fr	ea	
		700.500000		
dB/		CF St 1.00000000	1Hz	
dB			<u>Man</u>	
Center 695.50 MHz		Span 10 MHz Freq Offs 0.00000000		
#Res BW 30 kHz RMS Results Freq Offset	#VBW 91 kHz Ref BW dBc Low	#Sweep 1 s (1001 pts)	ck	
Carrier Power 2.650 MHz 24.79 dBm /	100.0 kHz -59.68	-34.88 -61.08 -36.29	<u>Off</u>	
5.00000 MHz				
UL:38602 \ R Date:04/2	23/2020 \ CLT:2.8.	3	=	
I TE R71	5MHz OPSK	High Channel RB25-0		

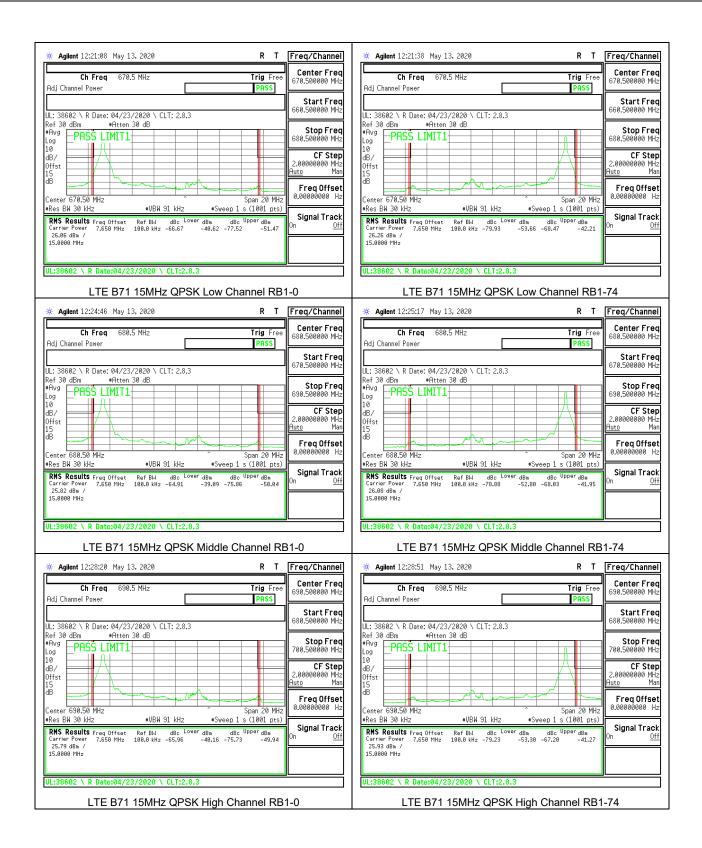
Page 226 of 445



Page 227 of 445

₩ Agilent 12:11:07 May 13, 2020 R T	Freq/Channel	🔆 Agilent 12:14:41 May	13,2020	RT	Freq/Channel
Ch Freq 668 MHz Trig Free Adj Channel Power PASS	Center Freq 668.000000 MHz	Ch Freq 68 Adj Channel Power	33 MHz	Trig Free PASS	Center Freq 683.000000 MHz
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3	Start Freq 660.500000 MHz	UL: 38602 \ R Date: 04/2	3/2020 \ CLT: 2.8.3		Start Freq 675.500000 MHz
Ref 30 dBm •Atten 30 dB •Avg PASS LIMIT1	Stop Freq 675.500000 MHz	PASS LIMIT	n 30 dB		Stop Freq 690.500000 MHz
10 dB/ Offst 15 B dB	CF Step 1.5000000 MHz Auto Man	10 dB/ 0ffst			CF Step 1.50000000 MHz Auto Man
dB Center 668,000 MHz Span 15 MHz	Freq Offset 0.00000000 Hz	dB Center 683.000 MHz		^ Span 15 MHz	Freq Offset 0.00000000 Hz
Res BM 30 kHz •VBM 91 kHz •Sweep 1 s (1001 pts) RMS Results Fraq Dffsat Ref BM dbc Lower dbm dbc Upper dbm Carrier Power 5.158 MHz 108.8 kHz -59.64 -34.79 -68.73 -35.87 18.8080 MHz 18.080 MHz 109.8 kHz -59.64 -34.79 -68.73 -35.87	Signal Track On <u>Off</u>	<pre>#Res BW 30 kHz RMS Results Freq Offset Carrier Power 5.150 MHz 24.85 dBm / 10.0000 MHz</pre>	#VBW 91 kHz Ref BW dBc Lov 100.0 kHz -58.07	#Sweep 1 s (1001 pts) /er dBm dBc ^{Upper} dBm -33.22 -55.59 -30.73	Signal Track ^{On <u>Off</u>}
10.0000 1112		10.0000 PIA2			
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3		UL:38602 \ R Date:04/:	23/2020 \ CLT:2.8	.3	
LTE B71 10MHz QPSK Low Channel RB50	0-0	LTE B71	10MHz QPSK	Middle Channel RB	50-0
* Agilent 12:18:15 May 1	13, 2020	R T	Freq/Channel		
Ch Freq 693 Adj Channel Power	3 MHz	Trig Free PASS	Center Freq 693.000000 MHz		
		1100	Start Freq 685,500000 MHz		
UL: 38602 \ R Date: 04/23 Ref 30 dBm					
			Stop Freq 700.500000 MHz		
dB/ Offst			CF Step 1.5000000 MHz		
dB			<u>Auto</u> Man Freq Offset		
Center 693.000 MHz		Span 15 MHz	0.00000000 Hz		
*Res BW 30 kHz RHS Results Freq Offset Carrier Pover 5,150 MHz	#VBW 91 kHz Ref BW dBc Low 100.0 kHz -56.00	#Sweep 1 s (1001 pts) ^{er} dBm dBc ^{Upper} dBm -31.25 -56.07 -31.32	Signal Track On <u>Off</u>		
24.75 dBm / 10.0000 MHz					
UL:38602 \ R Date:04/2	3/2020 \ CLT:2.8.	3			
LTE B71	10MHz QPSK	High Channel RB5	50-0		

Page 228 of 445



Page 229 of 445

∰ Agilent 12:22:08 May 13, 2020 R T Fre	q/Channel 🛛 🚸	Agilent 12:25:47 May 13, 2	2020	R T Freq/Chan	nel
	enter Freq .500000 MHz Adj	Ch Freq 680.5 M j Channel Power	1Hz	Trig Free 680.500000 M	
	Start Freq UL:	38602 \ R Date: 04/23/20	020 \ CLT: 2.8.3	Start Fr 670.500000 M	
Log PHSS LIMITI	Stop Freq #Av: .500000 MHz Log		dB	Stop Fr 690.500000 M	
	CF Step 10 dB/ 0000000 MHz 0ffs Man 15			CF St 2.00000000 P Auto	
	req Offset	nter 680.50 MHz		Span 20 MHz 0.00000000	set
	ignal Track Off Car	es BW 30 kHz 15 Results Freq Offset Re rrier Power 7,650 MHz 100	efBW dBc LowerdBm	bp 1 s (1001 pts) dBc Upper dBm 57.99 -32.92 On Signal Tra	ack <u>Off</u>
25.13 dBm / 15.0000 MHz	25	5.07 dBm / .0000 MHz			
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3		38602 \ R Date:04/23/2	2020 \ CLT:2.8.3		
LTE B71 15MHz QPSK Low Channel RB75-0		LTE B71 15M	/Hz QPSK Middle	Channel RB75-0	
∰ Agilent 12:29:21 May 13, 20	320	R T Fre	eq/Channel		
Ch Freg 690.5 MH	z		Center Freq 0.500000 MHz		
Adj Channel Power		PASS			
UL: 38602 \ R Date: 04/23/202	0 \ (17.283	686	Start Freq 0.500000 MHz		
Ref 30_dBm #Atten 30_d			Stop Freq		
		700	0.500000 MHz		
dB/ Offst			CF Step 00000000 MHz		
15 dB		Auto	o <u>Man</u> Freq Offset		
Center 690.50 MHz		Span 20 MHz 0.0	00000000 Hz		
∎Res BN 30 KHz RMS Results Freq 0 ffeet Ref Carrier Power 7.659 MHz 199.	BW dBc Lower dBm	Sweep 1 s (1001 pts) dBc Upper dBm 42 -55.38 -30.33	Signal Track Off		
25.05 dBm / 15.0000 MHz					
UL:38602 \ R Date:04/23/20	120 \ CIT+2 9 2				
LTE B71 15M	VIHZ QPSK Hig	h Channel RB75-0	J		

Page 230 of 445



Page 231 of 445

☆ Agilent 12:33:14 May 13, 2020	Freq/Channel	★ Agilent 12:36:49 May 13, 20	020	R T	Freq/Channel
Ch Freq 673 MHz Trig Free Adj Channel Power PRSS	Center Freq 673.000000 MHz	Ch Freq 683 MHz Adj Channel Power	2	Trig Free PASS	Center Freq 683.000000 MHz
UL: 38602 \ R Date: 04/23/2020 \ CLT: 2.8.3	Start Freq 658.000000 MHz	UL: 38602 \ R Date: 04/23/202	0 \ CLT: 2.8.3		Start Freq 668.000000 MHz
Ref 30 dBm •Atten 30 dB •Atvg PR\$S Log	Stop Freq 688.000000 MHz	Ref 30 dBm •Atten 30 d •Avg PASS LIMIT1	IB		Stop Freq 698.000000 MHz
10 dB/ 0ffst dB dB	CF Step 3.00000000 MHz Auto Man	10 dB/ 0ffst 15			CF Step 3.00000000 MHz Auto Man
dB Center 673.00 MHz Span 30 MHz	Freq Offset 0.00000000 Hz	dB Center 683.00 MHz		Span 30 MHz	Freq Offset 0.00000000 Hz
Res BM 30 kHz #VBM 91 kHz #Sweep 1 s (1001 pts) RMS Results Freq Dffset Ref BM dbc Lover dbm dbc Upper dbm Carrier Pover 18.15 MHz 108.0 kHz -58.80 -33.66 -64.09 -38.95 25.3.4 dbm / 208.000 MHz -58.80 -33.66 -64.09 -38.95	Signal Track On <u>Off</u>	*Res BW 30 kHz 4 RMS Results Freq Offset Ref Carrier Power 18.15 MHz 188. 25.09 dBm / 20.0000 MHz	BW dBc LowerdBm	ep <u>1 s (1001 pts)</u> dBc ^{Upper} dBm -56.09 -31.01	Signal Track ^{On <u>Off</u>}
UL:38602 \ R Date:04/23/2020 \ CLT:2.8.3		UL:38602 \ R Date:04/23/20	020 \ CLT:2.8.3		
LTE B71 20MHz QPSK Low Channel RB10	0-0	LTE B71 20MH	Hz QPSK Middle	Channel RB1	00-0
☆ Agilent 12:40:28 May 1	13, 2020	R T Free	q/Channel		
Ch Freq 68 Adj Channel Power	8 MHz		enterFreq .000000 MHz		
			Start Freq		
UL: 38602 \ R Date: 04/23 Ref 30 dBm #Atten	3/2020 \ CLT: 2.8.3 30 dB		.000000 MHz		
	-		Stop Freq .000000 MHz		
10 dB/ Offst		3.00	CF Step 1000000 MHz		
		Auto	Man		
Center 688.00 MHz		Span 30 MHz 0.00	reqOffset 0000000 Hz		
Res BW 30 kHz RMS Results Freq Offset Carrier Power 10.15 MHz	#VBW 91 kHz Ref BW dBc Low	#Sweep 1 s (1001 pts) er dBm dBc Upper dBm -30.26 -59.84 -34.83 On	gnal Track Off		
25.08 dBm / 26.8808 MHz	100.0 KH2 -33.25	-30.20 -33.04 -34.03			
UL:38602 \ R Date:04/2	2/2020 \ CLT-2 0	<u> </u>			
]		
LTE B712	20MHz QPSK	High Channel RB100-0)		

Page 232 of 445

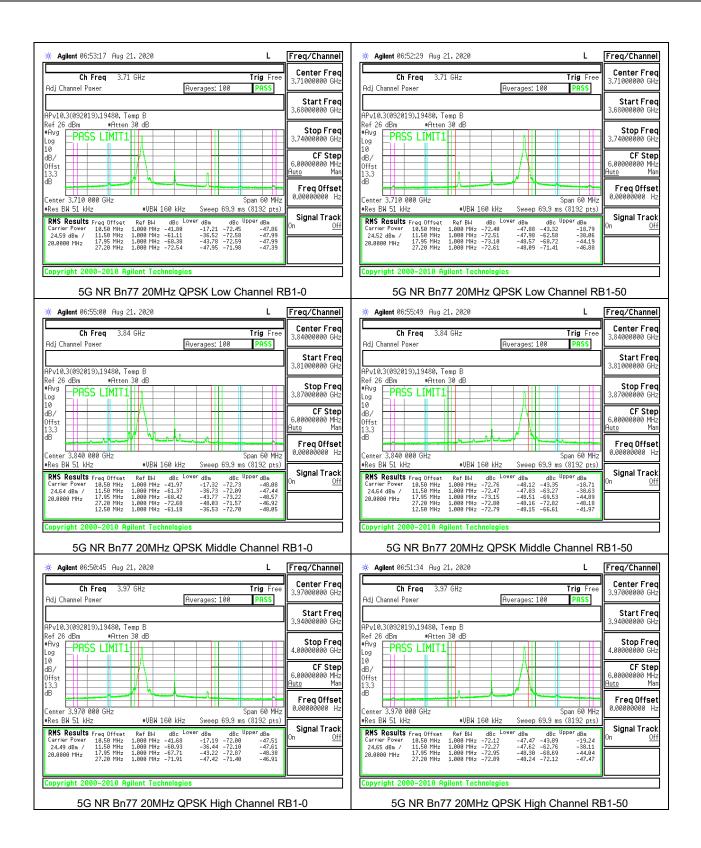
8.2.15. 5G NR BAND n77 ADJACENT CHANNEL POWER

LIMITS

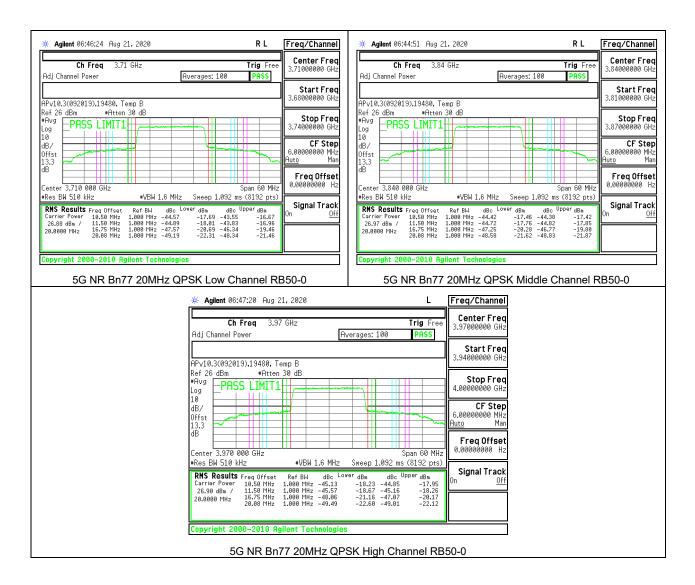
FCC: §27.53

(I) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band: (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Page 233 of 445



Page 234 of 445



Page 235 of 445