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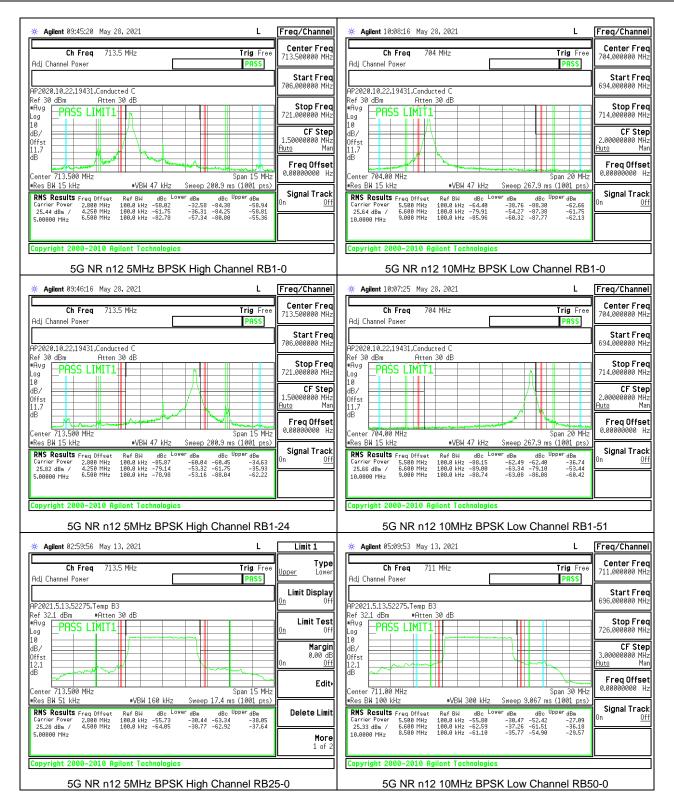


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#### 5G NR n12 ADJACENT CHANNEL POWER AND EMISSION MASK



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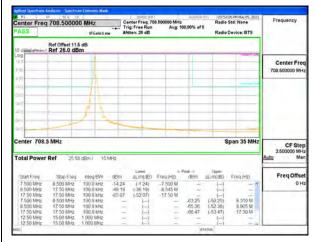
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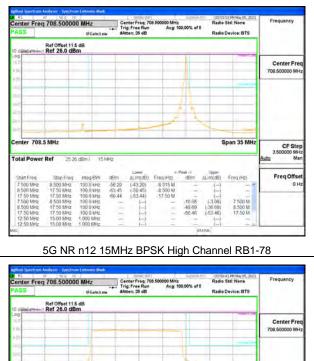
★ Agilent 10:05:11 May 28, 2021	Freq/Channel	★ Agilent 09:58:42 May 28, 2021	Freq/Channel
Ch Freq 707.5 MHz Trig Free Adj Channel Power PASS	Center Freq 707.500000 MHz	Ch Freq 711 MHz Trig Free Adj Channel Power PASS	Center Freq 711.000000 MHz
	Start Freq 697.500000 MHz		Start Freq 701.000000 MHz
AP202010.22.19431,Conducted C Ref 30 dBm Atten 30 dB	Stop Freq	AP2020.10.22,19431,Conducted C Ref 30 dBm Atten 30 dB •Avg DOCC 14471	Stop Freq
	717.500000 MHz		721.000000 MHz
dB/	<b>CF Step</b> 2.00000000 MHz <u>Auto</u> Man	dB/	CF Step 2.00000000 MHz <u>Auto</u> Man
dB	Freq Offset	dB	Freq Offset 0.00000000 Hz
Center 707.50 MHz Span 20 MHz •Res BW 15 kHz •VBW 47 kHz Sweep 267.9 ms (1001 pts)	Signal Track	Center 711.00 MHz Span 20 MHz •Res BW 15 kHz •VBW 47 kHz Sweep 267.9 ms (1001 pts)	Signal Track
RMS Results Freq Offsat Ref Bil dBc Lover dBm         dBc Upper dBm           Carrier Power 5.580 MHz         108.0 kHz -63.88         -86.24         -61.25           25.68 dBm / 6.580 MHz         108.0 kHz -73.18         -53.58         -86.14         -61.25	On <u>Off</u>	RHS Results         Freq Offset         Ref BH         dBc         Lower dBm         dBc         Upper dBm           Carrier         Power         5.500         HHz         108.0 kHz         -63.98         -38.42         -88.65         -63.10           25.55         dBm         /         6.680         HHz         108.0 kHz         -78.80         -53.25         -87.99         -62.43           10.0000         HHz         108.0 kHz         -85.59         -60.43         90.07         -64.452	On <u>Off</u>
10.0000 MHz 9.000 MHz 100.0 kHz -84.00 -58.40 -88.43 -62.84		10.0000 MHz 9.000 MHz 100.0 kHz -85.59 -66.03 -90.07 -64.52	
Copyright 2000-2010 Agilent Technologies	JL	Copyright 2000-2010 Agilent Technologies	
5G NR n12 10MHz BPSK Middle Channel R	31-0	5G NR n12 10MHz BPSK High Channel RB	1-0
★ Agilent 10:06:26 May 28, 2021	Freq/Channel	★ Agilent 10:02:22 May 28, 2021	Freq/Channel
Ch Freq 707.5 MHz Trig Free Rdj Channel Power PRSS	Center Freq 707.500000 MHz	Ch Freq 711 MHz Trig Free Adj Channel Power PASS	Center Freq 711.000000 MHz
	Start Freq 697.500000 MHz	HP2020.10.22,19431,Conducted C	Start Freq 701.000000 MHz
AP2020.10.22,19431,Conducted C Ref 30 dBm Atten 30 dB *Avg PASS LIMIT1	Stop Freq	Ref 30 dBm     Atten 30 dB     A     A     A     A	Stop Freq
	717.500000 MHz		721.000000 MHz
0ffst	2.00000000 MHz <u>Auto</u> Man	0ffst	2.00000000 MHz <u>Auto</u> Man
	Freq Offset 0.0000000 Hz		Freq Offset 0.00000000 Hz
Center 707.50 MHz Span 20 MHz •Res BM 15 kHz •VBW 47 kHz Sweep 267.9 ms (1001 pts)	Signal Track	Center 711.00 MHz Span 20 MHz •Res BM 15 kHz •VBW 47 kHz Sweep 267.9 ms (1001 pts)	Signal Track
RMS Results         Freq 0ffset         Ref BH         dBc Lower dBm         dBc Upper dBm           Carrier Pover         5,560 HHz         180.80 HHz         58.91 - 65.21         -65.24         -37.58           25,76 dBm         6.600 HHz         180.80 HHz         58.97         -65.44         -76.69         -52.39           10 appa PHu+9         9.060 HHz         180.80 HHz         -87.16         -61.44         -78.69         -52.43	On <u>Off</u>	RMS         Results         Freq         Offset         RefBH         dBc         Lover dBm         dBc         Upper dBm           Carrier Pover         5.560         HHz         108.04         Hz         -86.55         -63.45         -53.68         -38.48           25.56         dBm         /         6.560         HHz         108.04         Hz         -61.43         -79.52         -54.43           10         apage MHz         108.06         Hz         -62.49         -66.91         -61.41	On <u>Off</u>
10.0000 MHz 9.000 MHz 100.0 kHz -89.21 -53.45 -87.24 -51.48		18.8000 MHz 9.888 MHz 188.8 kHz -87.99 -62.49 -86.91 -61.41	
Copyright 2000-2010 Agilent Technologies	J	Copyright 2000-2010 Agilent Technologies	
5G NR n12 10MHz BPSK Middle Channel RB	1-51	5G NR n12 10MHz BPSK High Channel RB1	-51
★ Agilent 05:10:59 May 13, 2021	Limit 1	★ Agilent 05:12:29 May 13, 2021	Freq/Channel
Ch Freq 707.5 MHz Trig Free Rdj Channel Power PASS	<b>Type</b> <u>Upper</u> Lower	Ch Freq 704 MHz Trig Free Adj Channel Power PASS	Center Freq 704.000000 MHz
	Limit Display		Start Freq 689.000000 MHz
AP2021.5.13.52275.Temp B3 Ref 32.1 dBm ●Atten 30 dB ●Avg Docc + UNIT4	Limit Test	AP2021.5.13.52275.Temp B3 Ref 32.1 dBm •Atten 30 dB •Avg Docc twtti	Stop Freq
	<u>On</u> Off		719.000000 MHz
dB/ Offst 12.1	Margin 0.00 dB On <u>Off</u>	dB/ Offst	CF Step 3.00000000 MHz <u>Auto</u> Man
	Edit⊦	dB	Freq Offset 0.00000000 Hz
Center 707.50 MHz Span 30 MHz •Res BW 100 kHz •VBW 300 kHz Sweep 9.067 ms (1001 pts)		Center 704.00 MHz Span 30 MHz •Res BW 100 kHz •VBW 300 kHz Sweep 9.067 ms (1001 pts)	Signal Track
RMS Results Freq Offset Ref BH         dBc Lower dBm         dBc Upper dBm           Carrier Power         5.580 MHz         108.0 kHz         -58.28         -32.32         -51.29         -25.41           25.80 4Bm /         6.680 MHz         108.0 kHz         -65.23         -39.35         -59.23         -33.35	Delete Limit	RMS Results Frag Offset         Ref BH         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         5.500 MHz         100.0 kHz         -64.30         -30.59         -62.26         -36.55           25.70 dBm         / 6.800 MHz         100.4 kHz         -64.33         - 40.67         -53.47         -37.77	On <u>Off</u>
10.0000 MHz 8.500 MHz 100.0 kHz -65.00 -39.12 -55.93 -30.05	More 1 of 2	18.8808 MHz 8.500 MHz 100.0 kHz -70.47 -44.77 -58.82 -32.31	
Copyright 2000-2010 Agilent Technologies	J	Copyright 2000-2010 Agilent Technologies	L
5G NR n12 10MHz BPSK Middle Channel RB	50-0	5G NR n12 10MHz BPSK High Channel RB5	0-0

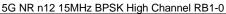
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## 9.2.4. LTE BAND 13 ADJACENT CHANNEL POWER

#### **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).

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* Agilent 01:06:07 Jun 29, 2021		Freq/Channel
Ch Freq 782 MHz AdjChannel Power	Trig Free PASS	Center Freq 782.000000 MHz
AP2021.4.1,10641,Cond F3		Start Freq 764.500000 MHz
Ref 30 dBm Atten 30 dB #Avg Log PRSS LIMIT1		Stop Freq 799.500000 MHz
10 dB/ Offst 15.3		CF Step 3.50000000 MHz <u>Auto</u> Mar
dB	ipan 35 MHz^	Freq Offset 0.00000000 Hz
Image: Wight and the second	(1001 pts) <sup>pper</sup> dBm -44.50 -57.03	<b>Signal Track</b> On <u>Off</u>
18.0000 MHz 11.00 MHz 100.0 kHz -82.65 -56.91 -83.63	-57.89	
Copyright 2000-2011 Agilent Technologies		
LTE B13 10MHz QPSK Middle Cha	nnel RB'	1-0
* Agilent 01:06:47 Jun 29, 2021	L	Freq/Channel
Ch Freq 782 MHz	Trig Free	Center Freq 782,000000 MHz
Adj Channel Power	PASS	Start Fred 764.500000 MHz
AP2021.4.1,10641,Cond F3 Ref 30 dBm Atten 30 dB #Avg PASS LIMIT1		Stop Fred
Log 1100 LINITI		799.500000 MHz CF Step 3.50000000 MHz
dB		Auto Mar Freq Offset 0.00000000 Hz
•Res BW 30 kHz         •VBW 91 kHz         •Sweep 1 s <b>RMS Results</b> Freq Offset         Ref BW         dBc         Lower dBm         dBc	òpan 35 MHz^ (1001 pts) <sup>pper</sup> dBm	Signal Track
Carrier Power 5.150 MHz 100.0 kHz -02.54 -56.83 -63.83 25.72 dBm / 8.400 MHz 100.0 kHz -03.60 -57.89 -82.39 10.0000 MHz 11.00 MHz 100.0 kHz -03.80 -59.00 -81.97	-38.12 -56.67 -56.26	0n <u>Off</u>
Copyright 2000–2011 Agilent Technologies		
LTE B13 10MHz QPSK Middle Char	nnel RB1	-49
🔆 Agilent 01:07:20 Jun 29, 2021	L	Freq/Channel
Ch Freq 782 MHz Adj Channel Power	Trig Free PASS	Center Fred 782.000000 MHz
AP2021.4.1,10641,Cond F3		Start Fred 764.500000 MHz
Ref 30 dBm Atten 30 dB #fvg Log 10		Stop Fred 799.500000 MHz
dB/ Offst 15.3 dB		CF Step 3.50000000 MHz <u>Auto</u> Mar
Center 782.000 MHz	) pan 35 MHz^ (1001 pts)	Freq Offset 0.00000000 Hz
RHS Results         Freq Offset         Ref BM         dBc         Lower dBm         dBc U           Carrier Power         5.150 MHz         180.0 kHz         -58.35         -33.63         -58.74           24.72 dBm         8.400 MHz         180.0 kHz         -58.35         -58.76         -51.09           10.0000 MHz         1.000 MHz         180.0 kHz         -81.34         -55.76         -51.09		Signal Track <sup>On <u>Of</u></sup>
Copyright 2000-2011 Agilent Technologies		
LTE B13 10MHz QPSK Middle Char	nnel RB5	0-0

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## 9.2.5. LTE BAND 14 ADJACENT CHANNEL POWER

#### <u>LIMITS</u>

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.

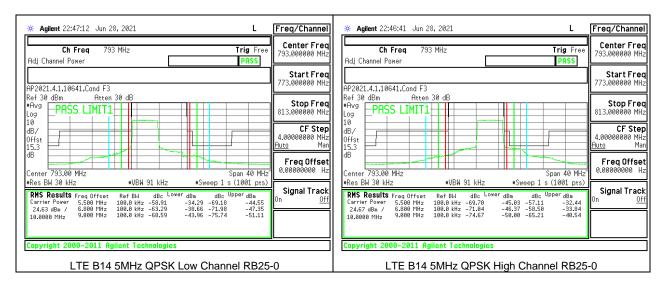
(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(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.

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ዡ         Agilent 22:28:15         Jun 28, 2021         L	Freq/Channel
Ch Freq         793 MHz         Trig         Free           Adj Channel Power         PRSS         PRS	Center Freq 793.000000 MHz
AP2021.4.1,10641,Cond F3	Start Freq 773.000000 MHz
Ref 30 dBm Atten 30 dB	Stop Freq 813.000000 MHz
10 dB/ Offst 15.3	<b>CF Step</b> 4.00000000 MHz <u>Auto</u> Man
dB Center 793.00 MHz Span 40 MHz	Freq Offset 0.00000000 Hz
Ness 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         5.500 MHz         100.0 kHz         -74.47         -40.80         -83.35         -57.67           25.67 dBm         10.27 kHz         100.0 kHz         -82.66         -55.99         -53.44         -57.47	<b>Signal Track</b> On <u>Off</u>
23.67 dbm / 107.2 1012 108.6 M12 -02.00 -00.33 -03.24 -07.47 10.0000 MHz 13.36 MHz 100.0 kHz -03.07 -57.40 -02.81 -57.14	
Copyright 2000–2011 Agilent Technologies	
LTE B14 10MHz QPSK Middle Channel RB	1-0
* Agilent 22:28:57 Jun 28, 2021 L	Freq/Channel
Ch Freq 793 MHz Trig Free Adj Channel Power PASS	Center Freq 793.000000 MHz
AP2021.4.1,10641,Cond F3	Start Freq 773.000000 MHz
Ref 30 dBm Atten 30 dB +Avg PRSS LIMIT1	Stop Freq 813.000000 MHz
10 dB/ Offst 15.3	CF Step 4.00000000 MHz <u>Auto</u> Mar
dB         Span 40 MHz           Center 793.00 MHz         Span 40 MHz'           •Res BH 30 KHz         •VBH 91 kHz         •Sweep 1 s (1001 pts)	Freq Offset 0.00000000 Hz
RMS Results         Freq Offset         Ref BU         dBc         Lower dBm           Carrier Power         5,500         MHz         100,0 KHz         -20,275         -55,04         -75,42         -49,62           25,80         BM         100,0 KHz         100,0 KHz         -83,18         -57,38         -83,33         -57,53	Signal Track <sup>On <u>Off</u></sup>
10.0000 MHz 13.36 MHz 100.0 kHz -83.23 -57.42 -83.41 -57.61	
Copyright 2000-2011 Agilent Technologies LTE B14 10MHz QPSK Middle Channel RB1	_10
* Agilent 22:29:25 Jun 28, 2021	Freq/Channel
Ch Freq 793 MHz Trig Free Adj Channel Power PRSS	Center Freq 793.000000 MHz
AP2021.4.1,10641,Cond F3	Start Freq 773.000000 MHz
Ref 30 dBm Atten 30 dB #fvg Log 10 Atten 10 Atte	Stop Freq 813.000000 MHz
dB/ Offst	<b>CF Step</b> 4.00000000 MHz <u>Auto</u> Mar
dB Center 793.00 MHz •Res BM 30 kHz •VBW 91 kHz •Sweep 1 s (1001 pts)	FreqOffset 0.00000000 Hz
RMS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         5.500 MHz         108.0 kHz         -83.98         -39.15         -60.21         -35.38           24.83 dBm         18.72 MHz         180.8 kHz         -67.65         -42.81         -68.58         -43.74	Signal Track On <u>Off</u>
18,8888 MHz 13,35 MHz 188,8 KHZ -72,58 -47,55 -59,25 -44,43	
Copyright 2000-2011 Agilent Technologies	
LTE B14 10MHz QPSK Middle Channel RB5	60-0

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### 9.2.6. LTE BAND 17 EMISSION MASK

#### <u>LIMITS</u>

#### 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.

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## 9.2.7. LTE BAND 25 AND 5G NR n25 ADJACENT CHANNEL POWER AND EMISSION MASK LIMITS

#### FCC: §24.238 (a)

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.

#### LTE BAND 25 EMISSION MASK



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#### 5G NR n25 ADJACENT CHANNEL POWER

* Agilent 06:02:43 May 13, 2021	Freq/Channel	★ Agilent 06:04:06 May 13, 2021	Freq/Channel
Ch Freq 1.8525 GHz Trig Free Adj Channel Power [PASS]	Center Freq 1.85250000 GHz	Ch Freq 1.9125 GHz Trig Free Adj Channel Power PASS	Center Freq 1.91250000 GHz
AP2021.5.13,52275,Temp B3	Start Freq 1.84500000 GHz	Center 1.912500000 GHz	Start Freq 1.90500000 GHz
Ref 33.1 dBm         •Atten 30 dB           •Avg         PRSS LIMIT1           Log	Stop Freq 1.86000000 GHz CF Step 1.50000000 MHz	Ref 33.1 dBm         •Atten 30 dB           •Avg         PASS LIMIT1           Log	Stop Freq 1.92000000 GHz CF Step 1.50000000 MHz
13.1 dB Center 1.852 500 GHz Center 1.852 500 GHz Center 1.852 500 GHz Center 1.852 500 GHz	Auto Man Freq Offset 0.00000000 Hz	13.1 dB Center 1.912 500 GHz Span 15 MHz	<u>Auto</u> Mar Freq Offset 0.00000000 Hz
•Res BW 51 kHz         •VBW 160 kHz         Sweep 17.4 ms (1001 pts) <b>RHS Results</b> Freq Dffset         Ref BW         dBc Lower dBm         dBc Upper dBm           Carrier Power         4.500 MHz         1.000 MHz -49.72         -24.74 -47.65         -22.66           24.99 dBm         5.80000 MHz         1.000 MHz -49.72         -24.74 -47.65         -22.66	Signal Track <sup>On <u>Off</u></sup>	•Res BW 51 kHz         •VBW 160 kHz         Sweep 17.4 ms (1001 pts)           RMS Results Freq Dffset         Ref BH         dBc         Lover dBm         dBc         Upper dBm           Carrier Pover         4.500 MHz         1.000 MHz         -48.54         -23.56         -53.87         -28.88           24.98 dBm /         5.00000 MHz         1.000 MHz         -48.54         -23.56         -53.87         -28.88	<b>Signal Track</b> On <u>Off</u>
Copyright 2000-2010 Agilent Technologies		Copyright 2000-2010 Agilent Technologies	
5G NR n25 5MHz BPSK Low Channel RB2	5-0	5G NR n25 5MHz BPSK High Channel RB25	5-0
* Agilent 06:07:21 May 13, 2021	Freq/Channel		Freq/Channel
Ch Freq 1.855 GHz Trig Free Adj Channel Power PASS	Center Freq 1.85500000 GHz	Ch Freq 1.91 GHz Trig Free Adj Channel Power PASS	Center Freq 1.91000000 GHz
AP2021.5.13,52275,Temp B3	Start Freq 1.84000000 GHz	AP2021.5.13.52275.Temp B3	Start Freq 1.89500000 GHz
Ref 33.1 dBm         *Atten 30 dB           *Avg         PASS LIMIT1           Log         Image: Comparison of the second s	Stop Freq 1.87000000 GHz CF Step	Ref 33.1 dBm         #Atten 30 dB           •Avg         PASS LIMIT1           Log	Stop Freq 1.92500000 GHz CF Step
0ffst 13.1 dB Center 1.855 00 GHz Span 30 MHz	3.00000000 MHz <u>Auto</u> Man Freq Offset 0.00000000 Hz	0ffst 13.1 dB Center 1.910 00 GHz Span 30 MHz	3.00000000 MHz <u>Auto</u> Mar Freq Offset 0.00000000 Hz
•Res BW 100 kHz         •VBW 300 kHz         Sweep 9.067 ms (1001 pts) <b>RMS Results</b> Freq Offset         Ref BW         dBc         Lover dBm         dBc         Upper dBm           Carrier Power         6.500 MHz         1.000 MHz         -51.11         -25.77         -50.87         -25.53           25.34 dBm         9.800 MHz         1.000 MHz         -48.25         -22.91         -46.98         -21.64	Signal Track <sup>On <u>Off</u></sup>	■Res BW 100 kHz         ■VBW 300 kHz         Sweep 9.067 ms (1001 pts)           RMS Results Freq Offset Ref BM         dBc Lover dBm         dBc Upper dBm           Carrier Pover 6.500 HHz         1.000 MHz         -48.64         -23.58         -58.06         -25.80           25.66 dBm / 9.000 MHz         1.000 MHz         -44.69         -19.63         -47.48         -22.42	<b>Signal Track</b> On <u>Off</u>
Converients 2000, 2010, Deilant Technologian		Conversion 2000, 2010, Opilant Technologies	
Copyright 2000-2010 Agilent Technologies	50.0	Copyright 2000-2010 Agilent Technologies	0.0
5G NR n25 10MHz BPSK Low Channel RB	Freq/Channel	5G NR n25 10MHz BPSK High Channel RB5	Freg/Channel
Ch Freq 1.8575 GHz Trig Free Adj Channel Power PASS	Center Fred	Ch Freq 1.9075 GHz Trig Free Adj Channel Power PRSS	Center Freq 1.90750000 GHz
AP2021.5.13.52275,Temp B3 Ref 33.1 dBm +Atten 30 dB	Start Freq 1.84000000 GHz	AP2021.5.13,52275,Temp B3 Ref 33.1 dBm #Atten 30 dB	Start Fred 1.89000000 GHz
PRSS LIMITI	Stop Freq 1.87500000 GHz CF Step	PRŠS LIMITI dB/	Stop Frec 1.92500000 GHz CF Step
doffst 13.1 dB	3.50000000 MHz <u>Auto</u> Man Freq Offset	Offst	3.50000000 MHz <u>Auto</u> Mar Freq Offset
Center 1.857 500 GHz Span 35 MHz •Res BW 150 kHz •VBW 470 kHz Sweep 4.733 ms (1001 pts) <b>RMS Results</b> Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	0.00000000 Hz Signal Track	Center 1.907 500 GHz         Span 35 MHz           •Res BW 150 kHz         •VBW 470 kHz         Sweep 4.733 ms (1001 pts) <b>RMS Results</b> Freq Diffset         Ref BW         dBc         Lover dBm         dBc         Upper dBm	0.00000000 Hz
Carrier Pover 8.500 MHz 1.000 MHz -40.15 -23.74 -51.96 -26.55 25.41 dBm / 13.73 MHz 1.000 MHz -48.43 -23.02 -57.99 -32.58 15.0000 MHz	On <u>Off</u>	Carrier Pover 8,500 MHz 1,000 MHz -45,91 -20.65 -50,74 -25,48 25,26 dBm / 13.73 MHz 1,000 MHz -47,03 -21.77 -50,70 -25,44 15,0000 MHz	On <u>Of</u>
Copyright 2000–2010 Agilent Technologies	<u></u>	Copyright 2000-2010 Agilent Technologies	
5G NR n25 15MHz BPSK Low Channel RB	75-0	5G NR n25 15MHz BPSK High Channel RB7	5-0

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★ Agilent 06:23:32 May 13, 2021	Freq/Channel	★ Agilent 06:24:21 May 13, 2021	Freq/Channel
Ch Freq 1.86 GHz Trig Free Adj Channel Power PASS	Center Freq 1.86000000 GHz	Ch Freq 1.905 GHz Trig Free Adj Channel Power PASS	Center Freq 1.90500000 GHz
	Start Freq 1.84000000 GHz		Start Freq 1.88500000 GHz
AP2021.5.13,52275,Temp B3       Ref 33.1 dBm     •Atten 30 dB       •Avg     PASS LIMIT1       10     10       dB/     10       0ffst     10       dB     10	Stop Freq           1.88000000 GHz           CF Step           4.00000000 MHz <u>Auto</u> Man           Freq Offset	AP2021.5.13,52275,Temp B3           Ref 33.1 dBm         •Atten 30 dB           •Avg         PASS LIMIT1           10         10           dB/         0           0ffst         13.1           dB         13.1	Stop Freq           1.92500000 GHz           CF Step           4.00000000 MHz           Auto         Man           Freq Offset
Center 1.860 00 GHz Span 40 MHz •Res BW 200 kHz •VBW 620 kHz Sweep 3.067 ms (1001 pts)	0.00000000 Hz Signal Track	Center 1.905 00 GHz Span 40 MHz •Res BW 200 kHz •VBW 620 kHz Sweep 3.067 ms (1001 pts)	0.00000000 Hz Signal Track
RHS         Results         Freq         Offset         Ref         BW         dBc         Lover dBm         dBc         Upper dBm           Carrier Power         11.50 HHz         1.800 MHz         -46.54         -21.46         -48.71         -23.63           25.80 dBm         / 81.31 MHz         1.800 MHz         -49.80         -24.72         -55.54         -30.45           28.80000 MHz         /         1.800 MHz         -49.80         -24.72         -55.54         -30.45	On <u>Off</u>	RMS         Results         Freq         Offset         Ref BM         dBc         Lower dBm         dBc         Upper dBm           Carrier Pover         11.50 MHz         1.000 MHz         -47.80         -22.66         -49.27         -24.13           25.13 dBm         / 18.13 MHz         1.000 MHz         -47.79         -22.65         -58.37         -33.24           20.0000 MHz         -         -         -         -         -         -         -         -33.24	On <u>Off</u>
Copyright 2000–2010 Agilent Technologies		Copyright 2000-2010 Agilent Technologies	
5G NR n25 20MHz BPSK Low Channel RB1	00-0	5G NR n25 20MHz BPSK High Channel RB1	0-00
* Agilent 06:27:11 May 13, 2021 L	Freq/Channel	* Agilent 06:29:32 May 13, 2021 L	Freq/Channel
Ch Freq 1.8625 GHz Trig Free Adj Channel Power PASS	Center Freq 1.86250000 GHz	Ch Freq 1.9025 GHz Trig Free Adj Channel Power PASS	Center Freq 1.90250000 GHz
AP2021.5.13,52275,Temp B3	Start Freq 1.84000000 GHz	AP2021.5.13,52275,Temp B3	Start Freq 1.88000000 GHz
Ref 33.1 dBm •ftten 30 dB •ftyg Log	Stop Freq 1.88500000 GHz	Ref 33.1 dBm •Atten 30 dB •Avg PASS LIMIT1	<b>Stop Freq</b> 1.92500000 GHz
10 dB/ Offst 13.1 dB	CF Step 4.50000000 MHz <u>Auto</u> Man Freq Offset	10 dB/ Offst 13.1 dB 0 0 0 0 0 0 0 0 0 0 0 0 0	CF Step 4.50000000 MHz <u>Auto</u> Man Freq Offset
Center 1.862         Span 45         MHz         Span 45         MHz           *Res BM 240 kHz         *VBW 750 kHz         Sweep 2.4 ms (1001 pts) <b>RMS Results</b> Freq 0ffset         Ref BH         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         14.00 MHz         1.000 MHz         -48.84         -25.58         -48.34         -25.08           23.26 dBm         1.003 MHz         1.000 MHz         -53.45         -30.19         -52.34         -29.00           25.0000 MHz         1.003 MHz         1.000 MHz         -53.45         -30.19         -52.34         -29.00	0.00000000 Hz Signal Track On <u>Off</u>	Center 1.902 500 GHz         Span 45 MHz           #Res BM 240 kHz         #VBW 750 kHz         Sweep 2.4 ms (1001 pts) <b>RMS Results</b> Freq 0ffsat         Ref BM         dBc Lover dBm         dBc Upper dBm           Carrier Power         14.80 MHz         1.080 MHz         -52.10         -28.73         -53.23         -29.86           23.88 dBm         /         19.83 MHz         1.080 MHz         -52.51         -29.14         -54.71         -31.34	0.00000000 Hz Signal Track On <u>Off</u>
Copyright 2000-2010 Agilent Technologies		Copyright 2000-2010 Agilent Technologies	
5G NR n25 25MHz BPSK Low Channel RB1	28-0	5G NR n25 25MHz BPSK High Channel RB1	
* Agilent 06:33:20 May 13, 2021	Freq/Channel		Freg/Channel
Ch Freq 1.865 GHz Trig Free Adj Channel Power PASS	Center Freq 1.86500000 GHz	Ch Freq 1.9 GHz Trig Free Adj Channel Power PRSS	Center Freq 1.90000000 GHz
AP2021.5.13,52275,Temp B3	Start Freq 1.84000000 GHz	AP2021.5.13,52275,Temp B3	Start Freq 1.87500000 GHz
Ref 33.1 dBm +Atten 30 dB +Avg PASS LIMIT1	Stop Freq 1.89000000 GHz	Ref 33.1 dBm +Atten 30 dB +Avg PASS LIMIT1	Stop Freq 1.92500000 GHz
10 dB/ 0ffst 13.1 dB	CF Step 5.00000000 MHz <u>Auto</u> Man	10 dB/ Offst 13.1 dB dB dB dB/ dB/ dB/ dB/ dB/ d	CF Step 5.0000000 MHz <u>Auto</u> Man
GB         Span 50 MHz           Center 1.865 00 GHz         Span 50 MHz           •Res BM 300 KHz         •VBW 910 kHz         Sweep 1.733 ms (1001 pts)	Freq Offset 0.00000000 Hz	dB         Span 50 MHz           Center 1.900 00 GHz         Span 50 MHz           •Res BM 300 KHz         •VBW 910 kHz         Sweep 1.733 ms (1001 pts)	Freq Offset 0.00000000 Hz
RMS Results frag Offsat         Ref BM         dBc         Lower dBa         dBc         Darge dBa           Carrier Pover         17.80 MHz         1.000 MHz         -51.25         -28.12         -40.36         -26.25           23.12 dBm         22.03 MHz         1.000 MHz         -66.20         -43.07         -56.72         -35.60           30.0000 MHz         1000 MHz         -66.20         -43.07         -56.72         -35.60	Signal Track <sup>On <u>Off</u></sup>	RMS Results freq 0ffsat         Ref BM         dbc         Liss freq 0 ffsat         Ref BM         dbc         Lower dba         dba         Lower dba <thlower dba<="" th=""></thlower>	Signal Track <sup>On <u>Off</u></sup>
Copyright 2000–2010 Agilent Technologies	JL	Copyright 2000–2010 Agilent Technologies	L
5G NR n25 30MHz BPSK Low Channel RB1	60-0	5G NR n25 30MHz BPSK High Channel RB1	60-0

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※ Agilent 07:58:13 May 28, 2021	Freg/Channel	* Agilent 07:59:03 May 28, 2021 L Freq/Channel
	Center Freq 1.87000000 GHz	Ch Freq 1.895 GHz Trig Free Adj Channel Power PASS
AP2020.10.22,19431,Conducted C           Ref 30 dBm           Atten 30 dB	Start Freq 1.84000000 GHz Stop Freq 1.90000000 GHz CF Step	Start Freq           AP2020.10.22.19431.Conducted C           Ref 30 dBm         Atten 30 dB           *Hvg         PRSS LIMIT1           10         CF Step
0ffst 12.6 dB Center 1.870 00 GHz •Res BW 51 kHz •VBW 160 kHz Span 60 MHz •VBW 160 kHz Sweep 69.53 ms (1001 pts)	6.00000000 MHz <u>Puto Man</u> Freq Offset 0.00000000 Hz Signal Track	Offst         6.0000000 HHz           12.6         4           dB         4           center 1.395 00 GHz         Span 60 MHz           •Res BW 51 kHz         •VBW 160 kHz         Sweep 69.53 ms (1001 pts)
RMS         Results         Freq         Differet         Ref EHI         dBc.         Lower dBa         dBc.         Upper dBa           Carrier Power         22.08         MHHz         -1680         HHz         -65.08         -42.36         -75.14         -51.65         -51.85         -40.0800         HHz         -55.08         -42.37         -74.54         -51.85         -51.85         -           40.00000         HHz         1.000         HHz         -65.08         -42.37         -74.54         -51.05         -	Signai Irack Dn <u>Off</u>	Carrier Power 22.00 MHz         1.000 MHz         -74.33         -56.48         -65.59         -42.74         -43.35           40.0000 MHz         1.000 MHz         -75.02         -51.18         -72.39         -48.55
Copyright 2000-2010 Agilent Technologies 5G NR n25 40MHz BPSK Low Channel RB1-	0	Copyright 2000-2010 Agilent Technologies 5G NR n25 40MHz BPSK High Channel RB1-215
	-	¥
	Freq/Channel	
Ch Freq 1.87 GHz Trig Free Adj Channel Power PASS	Center Freq 1.87000000 GHz	Ch Freq         1.895 GHz         Trig         Center Freq         1.89500000 GHz           Adj Channel Power         PASS         PASS         1.89500000 GHz         1.89500000 GHz
AP2021.5.13,52275,Temp B3	<b>Start Freq</b> 1.84000000 GHz	AP2021.5.13,52275,Temp B3
	Stop Freq 1.90000000 GHz CF Step 6.00000000 MHz	Ref 33.1 dBm         •Atten 30 dB           •Phys         PRSS LIMIT1           Log         1.92500000 GHz           10         6.00000000 MHz
13.1 dB Center 1.870 00 GHz *Res BW 330 kHz *VBW 1.2 MHz Span 60 MHz *VBW 1.2 MHz Sweep 1.2 ms (1001 pts)	<u>Auto</u> Man Freq Offset 0.00000000 Hz	13.1
RMS Results Free Offert Ref Bld dBc Lower dBm dBc Upper dBm	Signal Track <sup>On <u>Off</u></sup>	RMS Results Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm         Signal Track           Carrier Power         22.08 MHz         1.080 MHz         -49.73         -26.55         -48.45         -25.27         On         Off           23.17 40m /         25.50 MHz         1.080 MHz         -49.57         -26.40         -57.49         -34.32           40.0000 MHz         -49.57         -26.40         -57.49         -34.32         -
Copyright 2000-2010 Agilent Technologies		Copyright 2000-2010 Agilent Technologies
5G NR n25 40MHz BPSK Low Channel RB216	6-0	5G NR n25 40MHz BPSK High Channel RB216-0

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# 9.2.8. LTE BAND 26 ADJACENT CHANNEL POWER AND 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.



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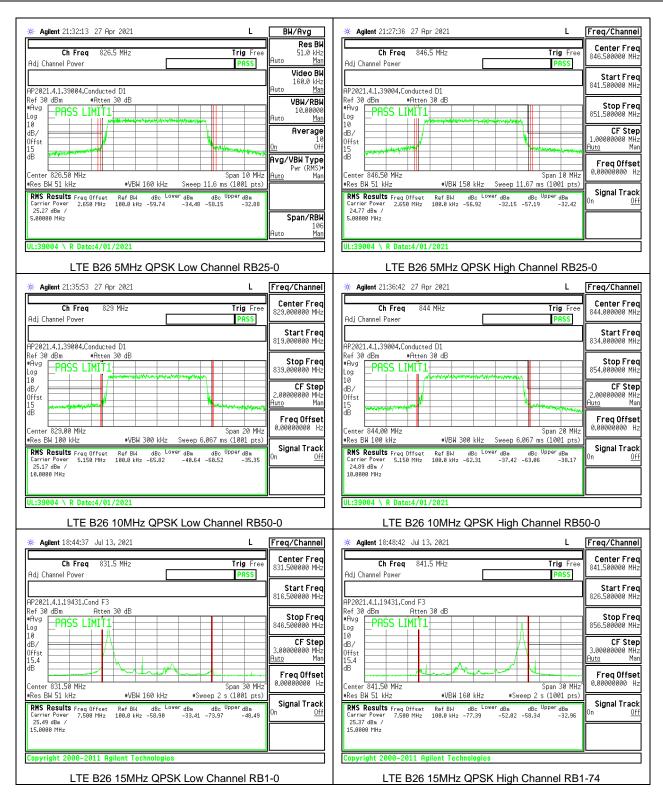
## 9.2.9. LTE BAND 26 ADJACENT CHANNEL POWER (PART 22) LIMITS

#### FCC: §22.917 (a)

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.

Ch Freq         824./ MHz         Trig Free         824.700           Adj Channel Power         PRSS         824.700         824.700           Adj Channel Power         PRSS         Sta         819.700           Ref 30 dBm         •fftten 30 dB         829.700         829.700           Io         B         Io         Io         10000           dB         Io         Io         Io         Io         Io           Center 824.70 MHz         Span 10 MHz         Span 10 MHz         Free         0.0000	Pr Freq 0000 MHz         Ch Freq Adj Channel Power         Start Freq PASS           Adj Channel Power         PASS           Center S48.30000000 MHz         Start Freq 848.300000 MHz           AP2021.41.39004.Conducted D1 Ref 30 dBm         •Atten 30 dB           Physical Conducted D1 Ref 30 dBm         •Atten 30 dB           PASS LIMIT1         •Atten 30 dB           10 dB/ dB/ dB/ dB/ dB/ dB         •Atten 30 dB           Cr Step 1000 MHz         PASS LIMIT1           Cr Step 1000 MHz         Freq 483.300000 MHz           Cr Step 1000 MHz         PASS LIMIT1           Cr Step 1000 MHz         •Atten 30 dB           Preq Offset 0000 MHz         •Atten 30 dB           Provide MHz         •Atten 30 dB           *Atten 30 dB         •Atten 30 dB
KHO KBSUIDS Freq Offset         Ref BN         dBc         Lower         dBc         Opport dBm         On           Carrier Power         858.0 kHz         100.0 kHz         -55.14         -30.13         -56.48         -31.46         0n           1.40000 MHz	ITrack         •Res BH 15 kHz         •VBH 51 kHz         Sweep 133.3 ms (1001 pts)         Signal Track           0ff         RHS Results Freq Offset         Ref BW         dBc Lover dBm         dBc Upper dBm         0ff           25.11 dBm /         1.46908 MHz         108.0 kHz -49.76         -24.65         -51.01         -25.90         0n         0ff           UL:39004 \ R Date:4/01/2021         UL:3904 \ R Date:4/01/2021         01         01         01         01
LTE B26 1.4MHz QPSK Low Channel RB6-0	LTE B26 1.4MHz QPSK High Channel RB6-0
* Agilent 21:21:49 27 Apr 2021	
	er Freq Ch Freq 847.5 MHz Trig Free 847.5 MHz 847.5 MHz 847.5 0000 MHz 847.500000 MHz
AP2021.4.1.39004.Conducted D1         Sta           Ref 30 dBm         •Atten 30 dB           *Avg         PASS LIMIT1           Log         10           0 dB/         •Avg           0	Hall Lhannel Power         PHSS           rtt Freq (0000 MHz)         Start Freq 842.500000 MHz           ppFreq (000 MHz)         Ref 30 dBm           eff 30 dBm         eft 40 methods           eff 30 dBm         eft 40 methods           frog MHz         eft 30 dBm           eff 30 dBm         eft 40 methods           frog MHz         eft 30 dBm           eff 30 dBm         eft 40 methods           frog MHz         freq 852.500000 MHz           frog MHz         freq 852.500000 MHz           frog MHz         freq 852.500000 MHz           frog MHz         freq 852.500000 MHz           frog Offset         freq 0ffset           frog MHz         span 10 MHz           frog Offset         0.0000000 Hz           frog MHz         span 10 MHz           frog Offset         0.0000000 Hz           frog MHz         frog Offset           for fish         frog Offset           fof
LTE B26 3MHz QPSK Low Channel RB15-0	LTE B26 3MHz QPSK High Channel RB15-0

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Ch Freq         831.5 MHz         Trig         Free           Adj Channel Power         PASS         831.50 MHz         831.50 MHz           Adj Channel Power         PASS         81.50 MHz         81.50 MHz           AP2021.4.1.39004,Conducted D1         861.50 MHz         816.50 MHz         816.50 MHz           Ref 30 dBm         •Arten 30 dB         •Arten 30 dB         816.50 MHz         816.50 MHz           10         0         0         0         846.50 MHz         846.50 MHz         846.50 MHz           10         0         0         0         0         0         90 MHz         90 MHz	Channel         ** Agilent 21:41:35         27 Apr 2021         L         Freq/Channel           1         Ch Freq         841.5 MHz         Trig         Free         841.500000 MHz           art Freq         Adj Channel Power         PRSS         Start Freq         841.500000 MHz           art Freq         HP2021.4.1,39004,Conducted D1         826.500000 MHz         Start Freq           N0000 MHz         PRSS         ITMT1         826.500000 MHz           10000 MHz         PRSS         ITMT1         856.500000 MHz           10000 MHz         Offst         00000 MHz         856.500000 MHz           10000 MHz         PRSS         ITMT1         856.500000 MHz           115         Immediate         Immediate         856.500000 MHz           10000 MHz         0ffst         0000 MHz         856.500000 MHz           10000 MHz         0ffst         0000 MHz         0000 MHz           10000 MHz         0000 MHz         0000 MLz         00000 MLz           10000 MHz
L0g         10         0	CF Step 00000 MHz Man         CF Step 0 15         CF Step 0000 MHz         CF Step 0000 MHz         CF Step 0000 MHz           up offset         dB         me
UL:39004 \ R Date:4/01/2021 LTE B26 15MHz QPSK Low Channel RB75-0	UL:39004 \ R Date:4/01/2021 LTE B26 15MHz QPSK High Channel RB75-0

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# 9.2.10. 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 MHz 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.

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#### LTE BAND 30 ADJACENT CHANNEL POWER (IC)

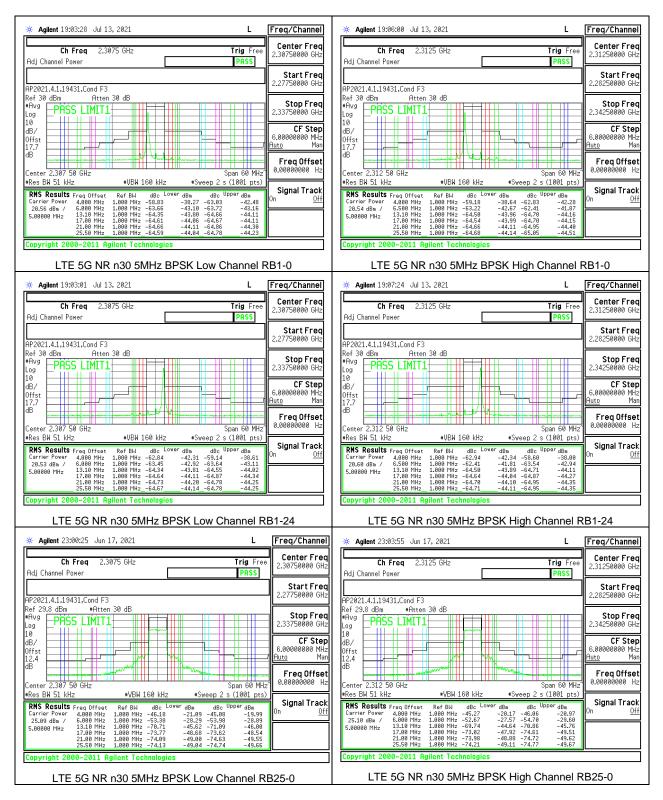


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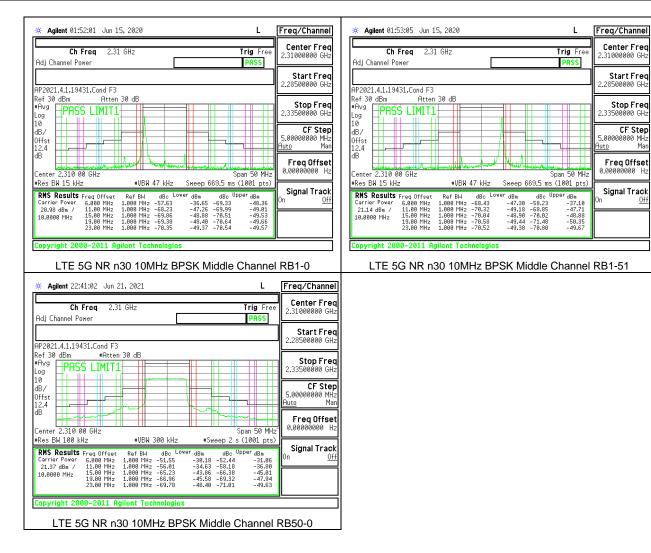
* Agilent 00:43:29 28 Ap	r 2021		L	Freq/Channel
Ch Freq 2.31 Adj Channel Power	GHz		rig Free PASS	Center Freq 2.31000000 GHz
AP2021.4.1,39004,Conducte	d D1			Start Freq 2.28700000 GHz
Ref 30 dBm •Atten •Avg PASS LIMIT1	30 dB			<b>Stop Freq</b> 2.33300000 GHz
10 dB/ Offst 17.1 dB				<b>CF Step</b> 4.60000000 MHz <u>Auto</u> Man
Center 2.310 00 GHz			n 46 MHz	Freq Offset 0.00000000 Hz
*Res BW 100 kHz           RMS Results         Freq Offset           Carrier Power         6.500 MHz           24.90 dBm /         10.50 MHz	#VBW 300 kHz Ref BW dBc Lov 1.000 MHz -46.96 1.000 MHz -49.69	Sweep 13.93 ms (1 ver dBm dBc Uppe -22.06 -45.90 -24.79 -51.07	1 1	<b>Signal Track</b> On <u>Off</u>
18.8888 MH- 14.50 MHz	1.000 MHz -58.95 1.000 MHz -61.84 1.000 MHz -66.71	-34.05 -58.36 -36.94 -65.19 -41.81 -73.79	-33.46 -40.29 -48.89	
UL:39004 \ R Date:4/01.	/2021			
LTE B30 1	0MHz QPSK	Middle Chanr	nel RB	50-0

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#### LTE 5G NR n30 ADJACENT CHANNEL POWER



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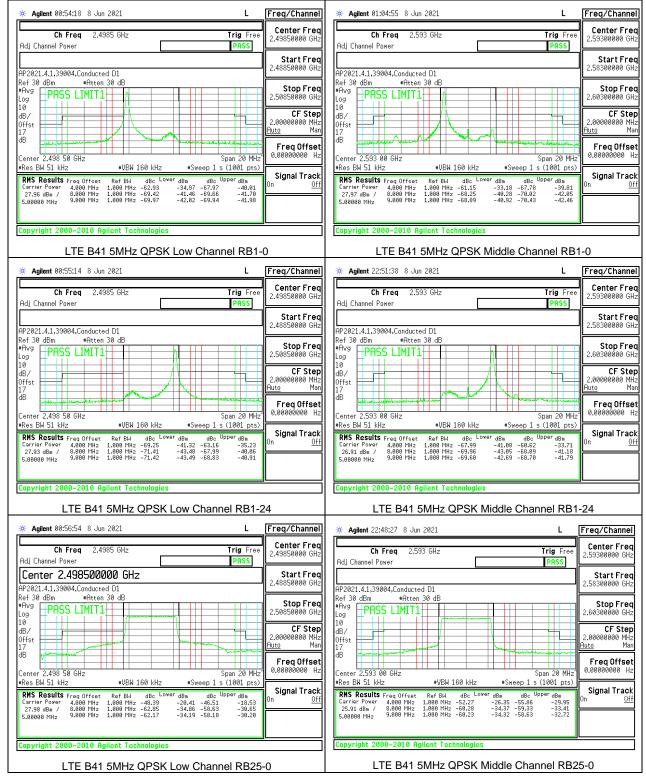
## 9.2.11. LTE BAND 41 AND 5G NR n41 ADJACENT CHANNEL POWER

#### LIMITS FCC: §27.53

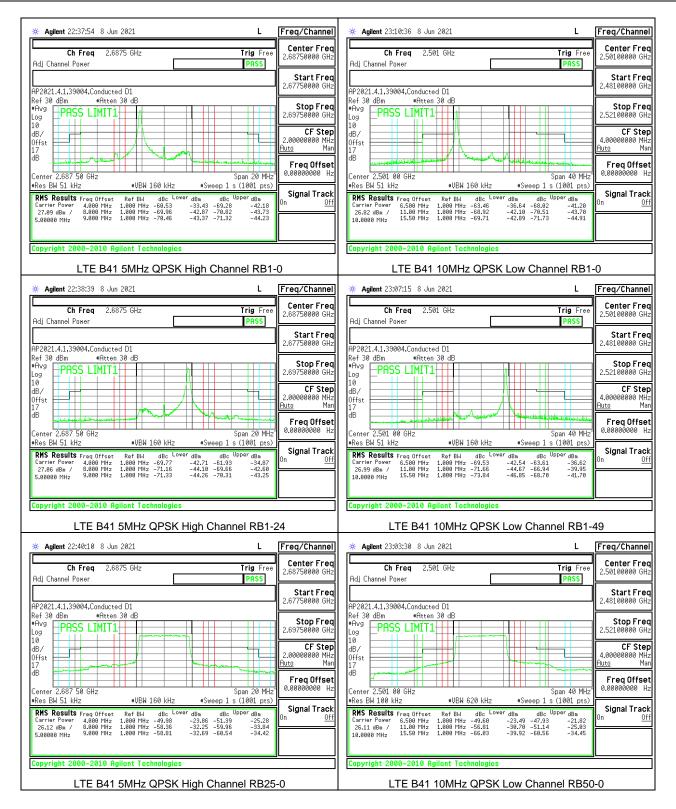
(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P)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

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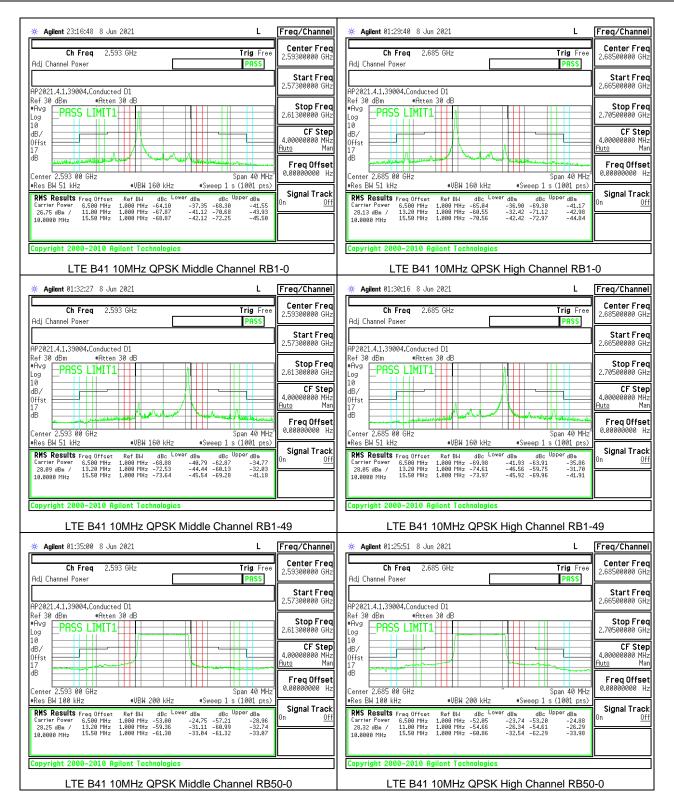
#### LTE BAND 41 ADJACENT CHANNEL POWER (FCC)



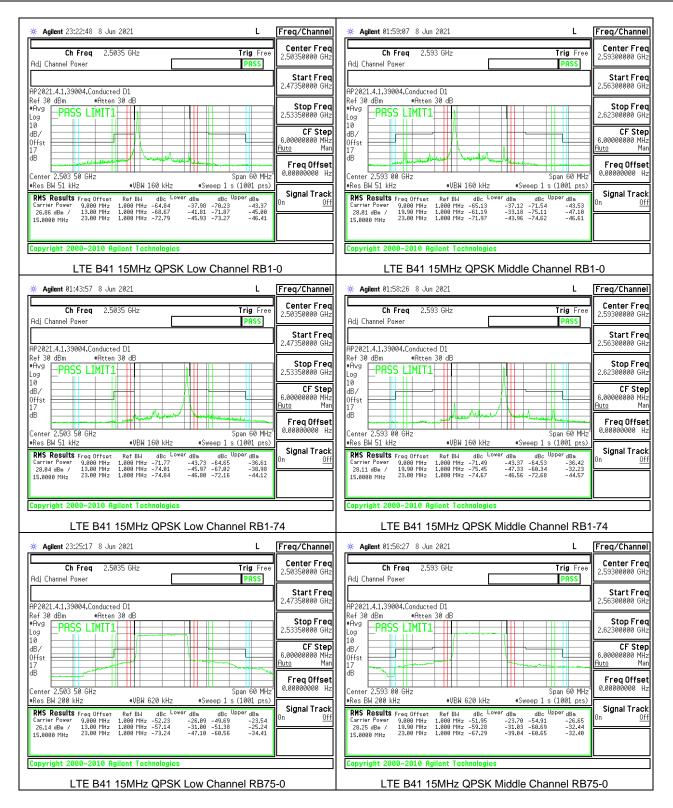
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5G NR n41 ADJACENT CHANNEL POWER (FCC)



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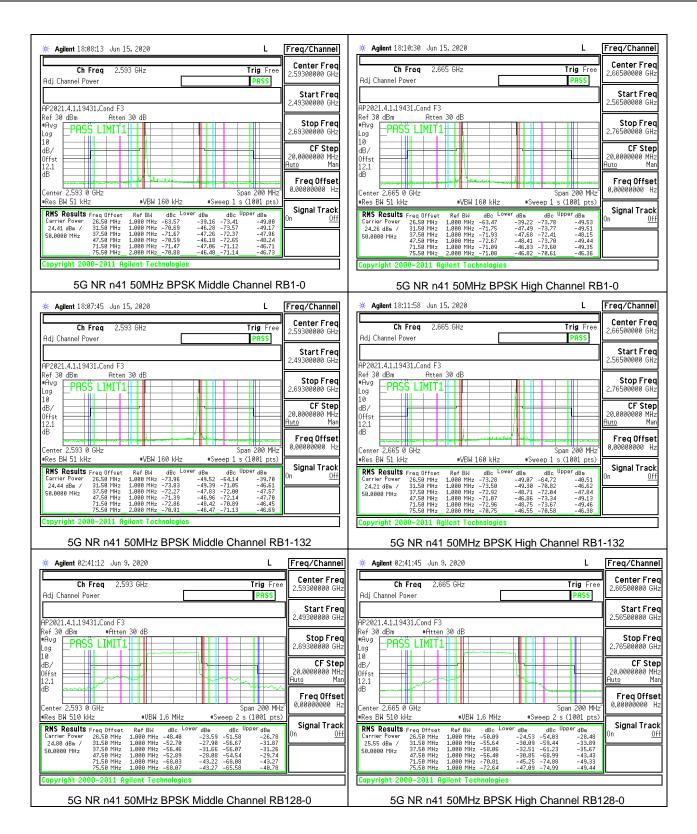
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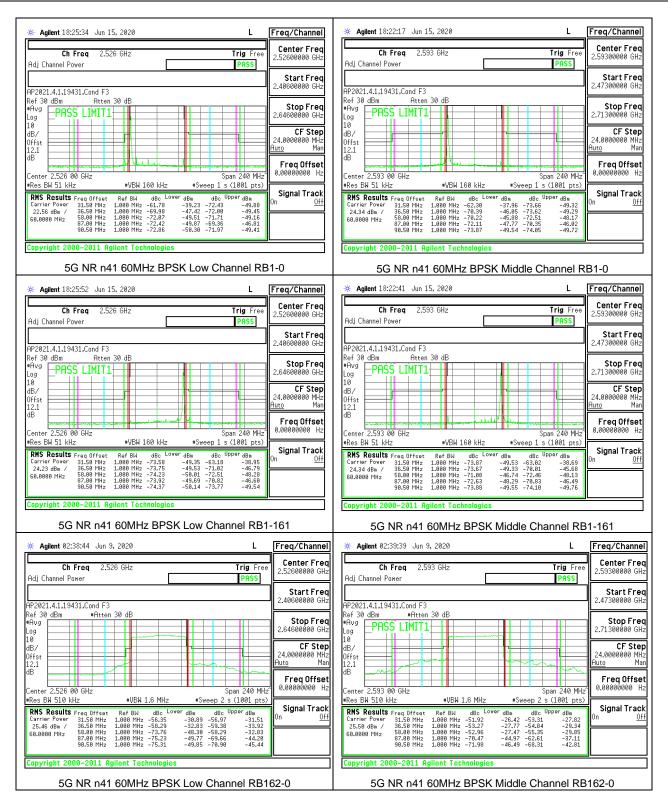
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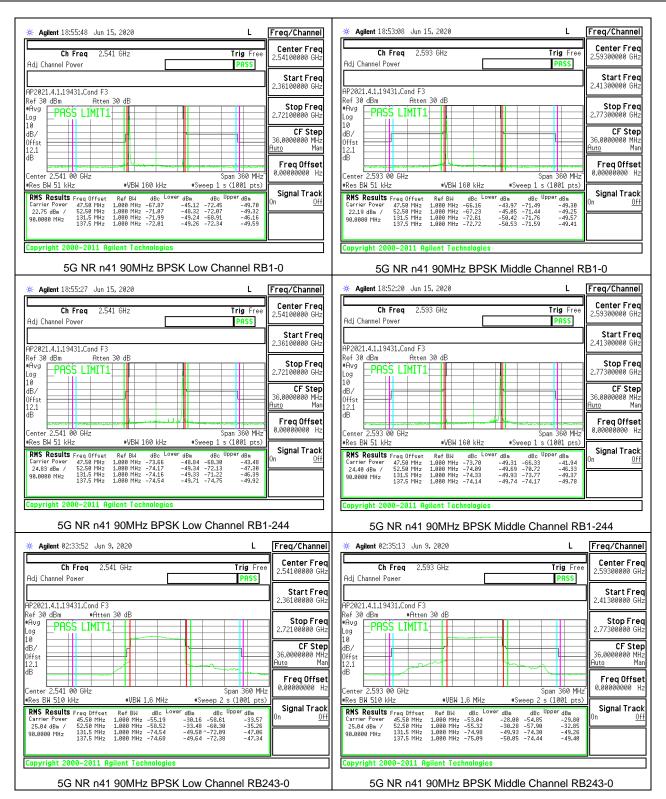
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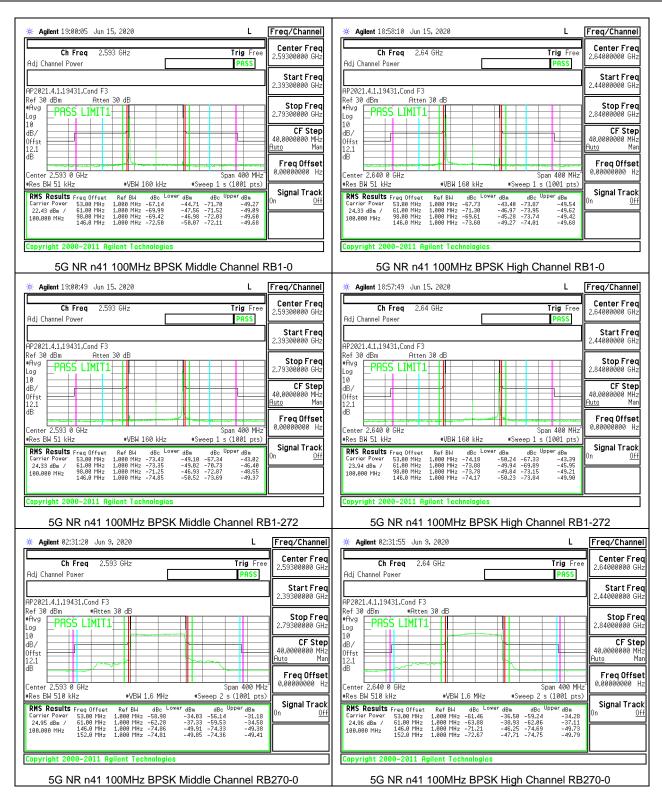
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## 9.2.12. LTE BAND 48 ADJACENT CHANNEL POWER

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.

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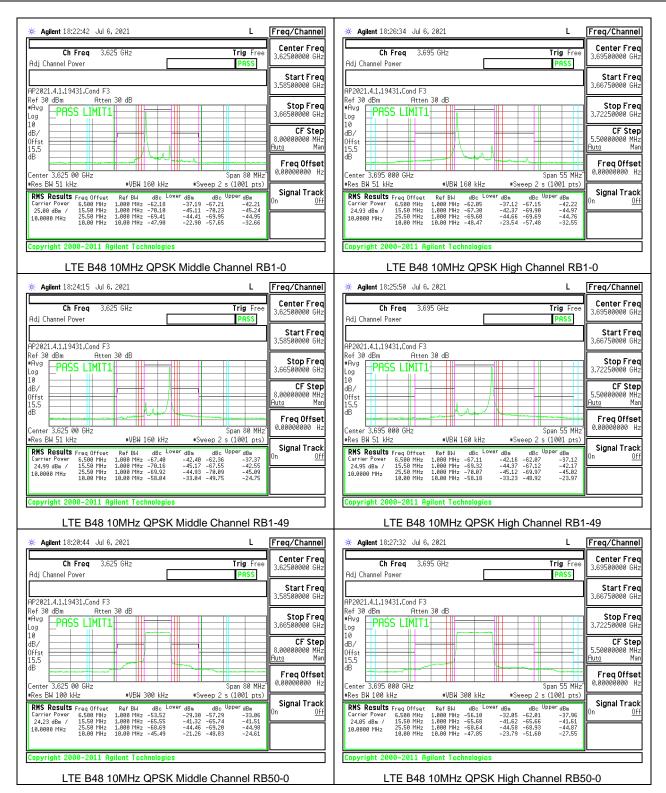
#### LTE BAND 48 ADJACENT CHANNEL POWER (FCC)



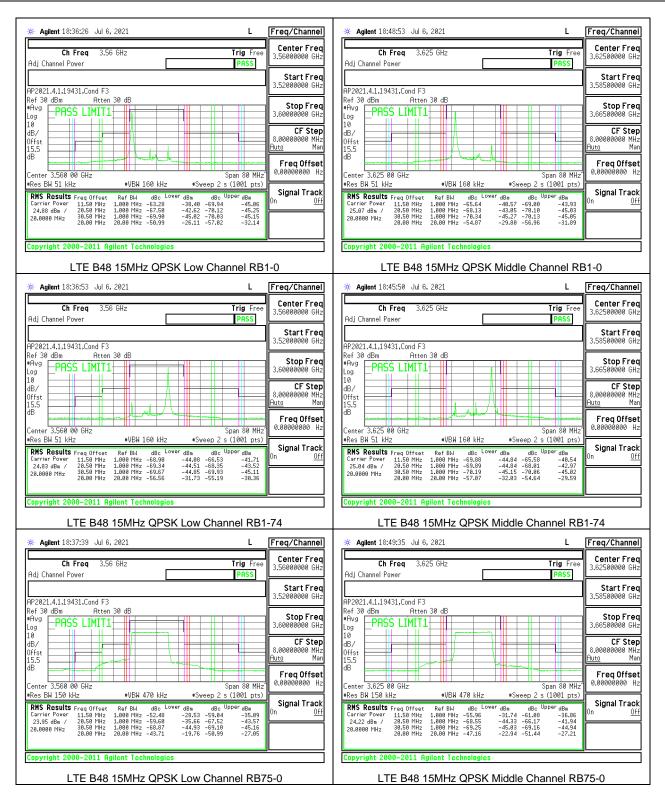
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# 9.2.13. LTE BAND 66 AND 5G NR n66 ADJACENT CHANNEL POWER AND EMISSION MASK LIMITS

### FCC: §27.53(h)

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

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#### LTE BAND 66 EMISSION MASK



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Frequency	52 PH May 01, 2021 Std: None Device: BTS	Radio 5	4.353 40 2 2 10 100.00% of 5	770000000 GHJ Avg: 1	Miles JW nter Freq: 1.3 g: Free Run tten: 30 dB	-a- Tri	1	1.7700000 NE	Center Free PASS	Frequency	23 PMMay 81, 2021 Std: None Device: BTS	Radio	4,559 40 fz 100.00% of 5	720000000 GH Avg	Miles In ter Freq: 1. Free Run ten: 30 dB	-b- Trip	DO GHz IFGain1.c	1.7200000 NFE	ASS
		Ref Offset 16.4 dB 10 olikasismaan Ref 30.0 dBm								Ref Offset 16.4 dB 10 ofikialiumsen Ref 30.0 dBm									
Center Fre 1.770000000 GH				_			-		20.0	Center Freq 1.72000000 GHz			-				-		20.0 20.0
			H						200		-	-	H		-	-	1		n.0.
		-	-3			-			-450			-							100
			-		-	-			-ano			-	-	_	-	-			800
CF Ster 16.000000 MH	pan 40 MHz	S							Center 1.77	16.000000 MHz	pan 40 MHz	1							enter 1.72
Auto <u>Ma</u>						MHz	dBm/ 20	Ref 24.9	Total Power	Auto Man						//Hz	dBm / 201	Ref 25.01	fotal Power
Freq Offse	Freq (Hz)	Upper <u>ALIM</u> (dB)	dBm	Freq (Hz)	ΔLim(dB)	dBm	Integ BW	Stop Freq	Start Freq	Freq Offset	Freq (Hz)	Lipper <u>ALim(dB)</u>	dBm	Freq (Hz)	ΔLim(dB)	dBm	Integ BW	Stop Freq	Start Freq
01	- 6	()	-	-10.01 M	(-17.85)	-30.85	200 0 kHz 1 000 MHz	11.00 MHz 20.00 MHz	10.00 MHz 11.00 MHz	0 112	- 6	()		-10.01 M	(-11.91)	-24.91	200.0 kHz 1.000 MHz	11.00 MHz 20.00 MHz	10.00 MHz 11.00 MHz
	10.03 M	() (.17:38)	30.38	-11.00 M	(-14.18)	-27.18	200.0 kHz	11.00 MHz	10.00 MHz		10.03 M	(-11.90)	24.90	-11.00 M	(-0.07)	-19.07	200.0 kHz	20.00 MHz	10.00 MHz
	11.00 M	(-14.32)	-27.32	-	()		1 000 MHz	20.00 MHz	11.00 MHz		11.09 M	(.5.67)	18.67	-	(-)	-	1 000 MHz	20.00 MHz	11.00 MHz
	-	()	-	-	()	-	100.0 kHz	15.00 MHz	5.000 MHz		-	()	-	-	()	-	100.0 kHz	15.00 MHz	5 000 MHz
		()	-	-	()		1 000 MHz	165.0 MHz	15.00 MHz		-	()		-	()		1 000 MHz	165.0 MHz	15.00 MHz
		()		-	()	-	1.000 MHz	195.0 MHz	165.0 MHz	1		()		-	(-1	-	1 000 MHz	195.0 MHz	165.0 MHz
									and and			(TITING)	P**						na

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#### 5G NR n66 ADJACENT C HANNEL POWER

* Agilent 21:32:47 Jun 8, 2020	L Freq/Channel	★ Agilent 21:33:14 Jun 8, 2020	Freq/Channel
	g Free 1.71250000 GHz	Ch Freq 1.7775 GHz Trig Fr Adj Channel Power PPSS	Center Frec 1.77750000 GHz
AP2021.4.1,19431,Cond F3	Start Freq 1.70500000 GHz	AP2021.4.1,19431.Cond F3	Start Frec 1.77000000 GHz
Prog         PAtten 30 dB           #hug         PASS LIMIT1           10         10           dB/         0ffst	Stop Freq           1.72000000 GHz           CF Step           1.50000000 MHz           Auto	Ref 30.7 dBm         •Atten 30 dB           •Arag         PASS LIMIT1           10	Stop Frec 1.78500000 GHz CF Step 1.50000000 MHz Auto Mar
12.1 dB Center 1.712 500 GHz Span	Freq Offset 0.00000000 Hz	12.1 dB Start 1.770 000 GHz Stop 1.785 000 G	Freq Offset
•Res BM 51 kHz         •VBM 160 kHz         •Sweep 2 s (10 <b>RMS Results</b> Freq Offset         Ref BM         dBc         lower dBm         dBc         loper           Carrier Power         4,000 MHz         1.000 MHz         -45.22         -20.70         -46.30           24.51 dBm /         5.00000 MHz         -45.22         -20.70         -46.30	Signal Track	•Res BW 51 kHz         •VBW 160 kHz         •Sweep 2 s (1001 pt <b>RMS Results</b> Freq Dffeat         Ref BH         dbc         Lower dBm         dbc         Upper dBm           Carrier Power         4.800 MHz         1.800 MHz         -56.67         -25.88         -45.49         -28.71           24.79 dBm /         5.80808 MHz         1.800 MHz         -56.67         -25.88         -45.49         -28.71	Signal Track
Copyright 2000–2011 Agilent Technologies		Copyright 2000-2011 Agilent Technologies	
5G NR n66 5MHz BPSK Low Channel	RB25-0	5G NR n66 5MHz BPSK High Channel RE	325-0
* Agilent 21:38:43 Jun 8, 2020	L Freq/Channel	★ Agilent 21:38:19 Jun 8, 2020	Freq/Channe
	g Free ASS Center Freq 1.71500000 GHz	Ch Freq 1.775 GHz Trig Fr Adj Channel Power PASS	Center Free 1.77500000 GH
AP2021.4.1,19431,Cond F3	Start Freq 1.70500000 GHz	AP2021.4.1,19431,Cond F3	Start Fre 1.76500000 GH
Ref 30.7 dBm • Atten 30 dB • Aug Log 10 dB/ 0/Ffst	Stop Freq           1.72500000 GHz           CF Step           2.00000000 MHz	Ref 30.7 dBm •Atten 30 dB •Avg Log 10 dB/ Offst	Stop Fre 1.78500000 GH CF Ste 2.00000000 MH
12.1 dB	Auto         Man           Freq Offset         0.00000000 Hz           01 pts)         01	12.1 dB Center 1.775 00 GHz •Res BM 100 KHz •VBM 300 KHz •Sweep 2 s (1001 pt	
RMS Results         Freq Offset         Ref BW         dBc         Lower         dBc         Upper           Carrier Power         6.500 MHz         1.000 MHz         -52.62         -28.09         -51.70           24.53 dBm /         18.0000 MHz         1.0000 MHz         -52.62         -28.09         -51.70	Bignal Track 0n Off	RMS Results         Freq Dffset         Ref BM         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         6.500 MHz         1.000 MHz         -54.69         -29.86         -53.68         -28.81           24.83 dBm /         10.000 MHz         -14.69         -29.86         -53.68         -28.81	Signal Trac
l Copyright 2000–2011 Agilent Technologies		Copyright 2000–2011 Agilent Technologies	
5G NR n66 10MHz BPSK Low Channe	l RB50-0	5G NR n66 10MHz BPSK High Channel RI	350-0
★ Agilent 21:40:33 Jun 8, 2020	L Freq/Channel	★ Agilent 21:41:11 Jun 8, 2020	Freq/Channe
	g Free Center Freq 1.71750000 GHz	Ch Freq 1.7725 GHz Trig Fr Adj Channel Power PASS	Center Fre 1.77250000 GH
AP2021.4.1.19431,Cond F3	Start Freq 1.70000000 GHz	AP2021.4.1,19431,Cond F3	Start Fre 1.75500000 GH
Ref 30.7 dBm •Atten 30 dB •Hug Log 10	Stop Freq 1.73500000 GHz	Ref 30.7 dBm +Atten 30 dB +Avg Log 10	Stop Fre 1.79000000 GH
dB/ Offst 12.1 dB	CF Step 3.5000000 MHz <u>Auto</u> Man	dB/ Offst 12.1 dB	CF Ste 3.50000000 MH Auto Ma
	Freq Offset           35 MHz <sup>2</sup> 0.00000000 Hz           01 pts)         0	Center 1.772 500 GHz Span 35 M •Res BW 160 kHz •VBW 510 kHz •Sweep 2 s (1001 pt	
RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper	Signal Track	RMS         Results         Freq         Offset         Ref         BW         dBc         Lower         dBm         Upper         DBm         Upper         DBm         DBm         Upper         DBm         DBm         Upper         DBm         DBm <thdbm< th=""> <thdbm< th="">         DBm</thdbm<></thdbm<>	Signal Trac
13.0000 mm2		13.0000 rinz	
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5G NR n66 15MHz BPSK Low Channe	l RB75-0	5G NR n66 15MHz BPSK High Channel RI	375-0

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※ Agilent 21:50:34 Jun 8, 2020	Freq/Channel	☆ Agilent 21:51:03 Jun 8, 2020	Freq/Channel
Ch Freq 1.72 GHz Trig Free Adj Channel Power PASS	Center Freq 1.72000000 GHz	Ch Freq 1.77 GHz Trig Free Adj Channel Power PRSS	Center Freq 1.77000000 GHz
AP2021.4.1,19431,Cond F3	Start Freq 1.70250000 GHz	AP2021.4.1,19431,Cond F3	Start Freq 1.75250000 GHz
Ref 30.7 dBm •Atten 30 dB •Avg PASS LIMIT1	Stop Freq 1.73750000 GHz	Ref 30.7 dBm + Atten 30 dB + Avg PASS LIMIT1	<b>Stop Freq</b> 1.78750000 GHz
10 dB/ 0ffst 12.1	<b>CF Step</b> 3.5000000 MHz <u>Auto</u> Man	10 dB/ 0ffst 12.1	CF Step 3.5000000 MHz <u>Auto</u> Man
dB Center 1.720 000 GHz Span 35 MHz <sup>2</sup>	Freq Offset 0.00000000 Hz	dB Center 1.770 000 GHz Span 35 MHz'	Freq Offset 0.00000000 Hz
Res BW 200 kHz         #VBW 620 kHz         #Sweep 2 s (1001 pts)           RMS Results Freq Offset         Ref BN         dBc Lover dBm         dBc Upper dBm           Carrier Power 11.50 HHz         1.080 HHz         -50.16         -25.69         -50.25	Signal Track <sup>On <u>Off</u></sup>	Res BH 200 kHz         #VBH 620 kHz         %Sweep 2 s (1001 pts)           RMS Results Freq Offset Ref BH         dbc Lover dBm         dbc Upper dBm           Carrier Power 11.50 HHz         1.800 HHz         -51.61         -26.85         -52.72         -27.96	Signal Track <sup>On <u>Off</u></sup>
24.55 dBm / 28.0000 MHz		24.76 dBm / 28.0000 MHz	
L Copyright 2000–2011 Agilent Technologies	JL	Copyright 2000–2011 Agilent Technologies	
5G NR n66 20MHz BPSK Low Channel RB10	00-0	5G NR n66 20MHz BPSK High Channel RB10	0-0
★ Agilent 21:54:50 Jun 8, 2020	Freq/Channel	★ Agilent 21:53:47 Jun 8, 2020 L	Freq/Channel
Ch Freq 1.725 GHz Trig Free Adj Channel Power PRSS	Center Freq 1.72500000 GHz	Ch Freq 1.765 GHz Trig Free Adj Channel Power PASS	Center Freq 1.76500000 GHz
AP2021.4.1,19431,Cond F3 Ref 30.7 dBm	Start Freq 1.70000000 GHz	AP2021.4.1,19431,Cond F3 Ref 30.7 dBm •Htten 30 dB	Start Freq 1.74000000 GHz
Avg PASS LIMIT1	Stop Freq 1.75000000 GHz	PRSS LIMIT1	Stop Freq 1.79000000 GHz
10 dB/ Offst	CF Step 5.00000000 MHz Auto Man	10 dB/ Offst	CF Step 5.0000000 MHz
12.1 dB	<u>Auto</u> Man <b>Freq Offset</b> 0.00000000 Hz	12.1 dB	<u>Auto</u> Man Freq Offset 0.00000000 Hz
Center 1.725 00 GHz Span 50 MHz" #Res BW 300 kHz #VBW 910 kHz #Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track	Center 1.765 00 GHz Span 50 MHz" #Res BW 300 kHz #VBW 910 kHz #Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track
Carrier Power 16.00 MHz 1.000 MHz 50.89 -28.19 -49.43 -26.73 22.70 dBm / 30.0000 MHz	On <u>Off</u>	Carrier Power 16.00 MHz 1.000 MHz -51.63 -28.80 -50.39 -27.55 22.84 dBm / 30.0000 MHz	0n <u>Off</u>
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5G NR n66 30MHz BPSK Low Channel RB16	00-0 Freg/Channel	5G NR n66 30MHz BPSK High Channel RB16	50-0 [Freq/Channel]
Ch Freq 1.73 GHz Trig Free	Center Freq 1.73000000 GHz	Ch Freq 1.76 GHz Trig Free	Center Freq 1.7600000 GHz
Adj Channel Power PASS	Start Freq	Adj Channel Power PASS	Start Freq
AP2021.4.1.19431.Cond F3 Ref 30.7 dBm •Atten 30 dB •Avg DOCC 1 VHT1	Stop Freq	AP2021.4.1,19431.Cond F3 Ref 30.7 dBm #Rtten 30 dB #Rvg DDCC TWTT1	Stop Freq
*Hvg Log 10 dB/	1.76000000 GHz	PASS LIMIT1	1.79000000 GHz
dffst 12.1	6.00000000 MHz <u>Auto</u> Man	06/51 12.1 dB	6.00000000 MHz <u>Auto</u> Man
Center 1.730 00 GHz Span 60 MH2 <sup>°</sup>	Freq Offset 0.00000000 Hz	Center 1.760 00 GHz Span 60 MHz	Freq Offset 0.00000000 Hz
•Res BW 430 kHz         •VBW 1.3 MHz         *Sweep 2 s (1001 pts) <b>RMS Results</b> Freq Offset         Ref BW         dBc         Lover dBm         dBc         Upper dBm           Carrier Power         21.50 MHz         1.000 MHz         -58.28         -35.56         -59.92         -37.19	<b>Signal Track</b> On <u>Off</u>	RMS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         21.58 MHz         1.000 MHz         -73.26         -50.22         -67.23         -44.18	Signal Track <sup>On <u>Off</u></sup>
22.72 dBm / 48.8000 MHz		23.05 d8m / 40.0000 MHz	
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5G NR n66 40MHz BPSK Low Channel RB <sup>2</sup>	1-0	5G NR n66 40MHz BPSK High Channel RB1-	215

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★ Agilent 22:08:54 Jun 8, 2020	Freq/Channel Center Freq	Agilent 22:13:06 Jun 8, 2020     L     Freq/Channel     Center Freq     Center Freq
Ch Freq 1.73 GHz Trig Free Adj Channel Power PASS	1.73000000 GHz	Ch Freq 1.76 GHz Trig Free Adj Channel Power PASS
AP2021.4.1,19431,Cond F3	Start Freq 1.70000000 GHz	AP2021.4.1,19431,Cond F3
Ref 30.7 dBm +Atten 30 dB +Atten 30 dB Log PASS LIMIT1	Stop Freq 1.76000000 GHz	Ref 30.7 dBm         •Atten 30 dB           •Nvg         PASS         LIMIT1           10         10         10
dB/ Offst	<b>CF Step</b> 6.00000000 MHz <u>Auto</u> Man	10 dB/ 0ffst 12.1 40 6.00000000 Mt Auto Mar
dB Center 1.730 00 GHz Span 60 MHz	Freq Offset 0.00000000 Hz	dB Center 1.760 00 GHz Span 60 MHz 0.00000000 Hz
Res BW 430 kHz         •VBW 1.3 MHz         •Sweep 2 s (1001 pts)           RMS Results Freq Dffset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         21.50 MHz         1.800 MHz         -58.28         -35.56         -59.92         -37.19           22.72 dB /         ////////////////////////////////////	<b>Signal Track</b> On <u>Off</u>	Res BH 430 kHz         #VBW 1.3 MHz         #Sweep 2 s (1001 pts)           RMS Results Freq Offset         Ref BH         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         21,50 MHz         1,800 MHz         -54.09         -31.28         -30.88         On         Off           22.82 dBm /         -         -         -         -         -         -         -         0
48.0000 MHz		48.8000 MHz
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5G NR n66 40MHz BPSK Low Channel RB21	6-0	5G NR n66 40MHz BPSK High Channel RB216-0

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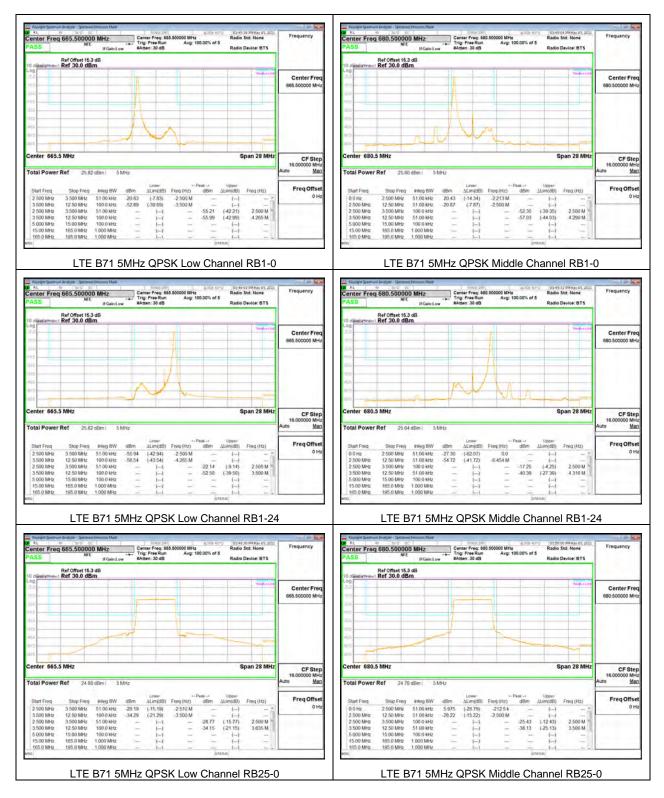
# 9.2.14. LTE BAND 71 AND 5G NR n71 ADJACENT CHANNEL POWER AND EMISSION MASK LIMITS

### FCC: §27.53

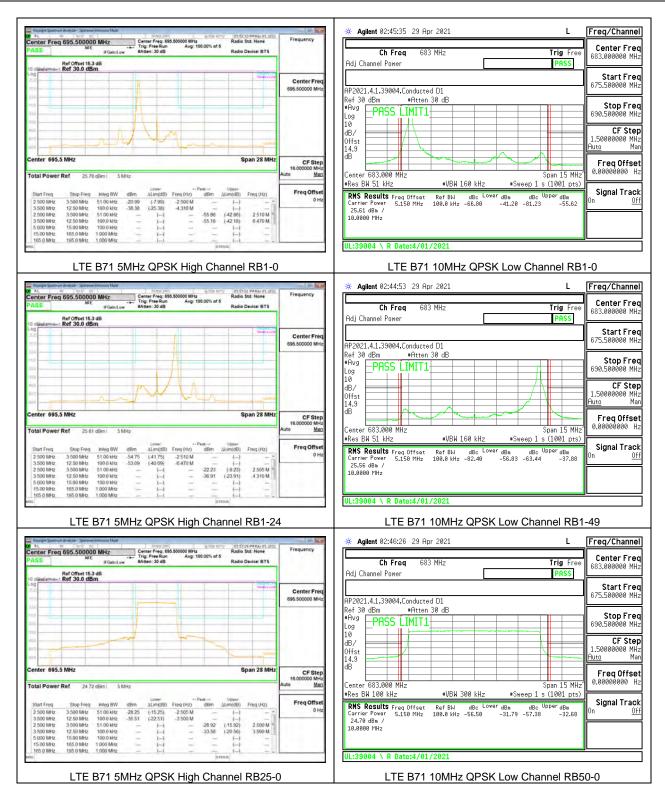
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with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

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#### LTE BAND 71 ADJACENT CHANNEL POWER AND EMISSION MASK



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## 5G NR n71 ADJACENT CHANNEL POWER

* Agilent 20:33:19 Jun 8, 2020	Freq/Channel	* Agilent 20:38:15 Jun 8, 2020 L	Freq/Channel
Ch Freq         665.5 MHz         Trig         Free           Adj Channel Power         PASS         PAS	Center Freq 665.500000 MHz	Ch Freq 680.5 MHz Trig Free Adj Channel Power PASS	Center Freq 680.500000 MHz
AP2021.4.1,19431,Cond F3	Start Freq 660.500000 MHz	AP2021.4.1,19431,Cond F3	Start Freq 675.500000 MHz
Ref 30 dBm +Atten 30 dB +Arg PRSS LIMIT1	Stop Freq 670.500000 MHz	Ref 30 dBm +Atten 30 dB	Stop Freq 685.500000 MHz
10 dB/ 0ffst	CF Step 1.0000000 MHz	10 dB/ Offst	CF Step
11.4 dB Center 665.50 MHz Span 10 MHz	<u>Auto</u> Man <b>Freq Offset</b> 0.00000000 Hz	11.4 dB Center 680.50 MHz Span 10 MHz Span 10 MHz	<u>Auto</u> Mar Freq Offset 0.00000000 Hz
#Res BW 30 kHz         #VBW 91 kHz         #Sweep 2 s (1001 pts)           RMS Results Freq Offset         Ref BW         dBc Lower dBm         dBc Upper dBm	Signal Track	Res BW 30 kHz     WBW 91 kHz     Sweep 2 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lower dBm     dBc Upper dBm	Signal Track
Carrier Power 2.650 MHz 100.0 kHz -44.97 -19.23 -83.78 -58.04 25.74 dBm / 5.00000 MHz		Carrier Pover 2.850 MHz 100.0 kHz -44.90 -19.30 -82.73 -57.14 25.60 dBm / 5.80000 MHz	
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5G NR n71 5MHz BPSK Low Channel RB1	-0	5G NR n71 5MHz BPSK Middle Channel RB	1-0
※ Agilent 20:33:50 Jun 8, 2020         L	Freq/Channel	☆ Agilent 20:37:52 Jun 8, 2020 L	Freq/Channel
Ch Freq         665.5 MHz         Trig         Free           Adj Channel Power         PASS	Center Freq 665.500000 MHz	Ch Freq         680.5 MHz         Trig         Free           Adj Channel Power         PRSS	Center Freq 680.500000 MHz
AP2021.4.1,19431,Cond F3	Start Freq 660.500000 MHz	AP2021.4.1,19431,Cond F3	Start Freq 675.500000 MHz
Ref 30 dBm •Atten 30 dB •Avg PASS LIMIT1	Stop Freq 670.500000 MHz	Ref 30 dBm •Atten 30 dB •Avg PRSS LIMIT1	Stop Fred 685.500000 MHz
10 dB/ offst	CF Step 1.00000000 MHz Auto Man	10 dB/ Offst	CF Step 1.00000000 MHz Auto Mar
11.4 dB Center 665.50 MHz Span 10 MHz	Freq Offset	11.4 dB Center 680.50 MHz Span 10 MHz Span 10 MHz	Freq Offset 0.00000000 Hz
#Res BW 30 kHz         #VBM 91 kHz         •Sweep 2 s (1001 pts)           RMS Results Freq Offset Carrier Power         Ref BW         dBc         Lover dBm         dBc Upper dBm           25.49 dBm /         25.49 dBm /         s.66         -58.17         -48.69         -22.60	<b>Signal Track</b> On <u>Off</u>	Res BW 30 kHz         #VBW 91 kHz         #Smeep 2 s (1001 pts)           RMS Results Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         2.550 MHz         106.0 kHz         -83.27         -57.79         -48.09         -22.61           25.48 dBm /         25.48 dBm /         106.0 kHz         -83.27         -57.79         -48.09         -22.61	Signal Track <sup>On <u>Of</u>i</sup>
5.00000 MH2		5.00000 MHz	
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5G NR n71 5MHz BPSK Low Channel RB1	-24	5G NR n71 5MHz BPSK Middle Channel RB1	1-24
* Agilent 21:43:06 Jun 15, 2020 L	Freq/Channel	* Agilent 21:43:55 Jun 15, 2020 L	Freq/Channel
Ch Freq 665.5 MHz Trig Free Adj Channel Power PASS	Center Freq 665.500000 MHz	Ch Freq 680.5 MHz Trig Free Adj Channel Power PASS	Center Freq 680.500000 MHz
AP2021.4.1,19431,Cond F3	Start Freq 660.500000 MHz	AP2021.4.1,19431,Cond F3	<b>Start Freq</b> 675.500000 MHz
Ref 30 dBm Atten 30 dB	<b>Stop Freq</b> 670.500000 MHz		<b>Stop Freq</b> 685.500000 MHz
10 dB/ Offst 11.4	<b>CF Step</b> 1.00000000 MHz <u>Auto</u> Man	11.4 manne	<b>CF Step</b> 1.00000000 MHz <u>Auto</u> Man
dB	FreqOffset 0.00000000 Hz	dB	FreqOffset 0.00000000 Hz
Res DM 31 kH2         # UDM 100 kH2         # sweep 2 s (1001 pts)           RMS Results Freq Dffset         Ref Bµl         dBc Lower dBm         dBc Upper dBm           Carrier Power         2.650 MHz         100.8 kHz         -56.75         -31.04         -52.69         -26.98           25.71 dBm         /         //         //         //         -36.98         -36.75         -31.04         -52.69         -26.98	<b>Signal Track</b> On <u>Off</u>	RK8         Results         Freq Offset         Ref BH         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         2.553 MB /         2553 MB /         -26.56         -31.03         -54.48         -28.95	Signal Track <sup>On <u>Off</u></sup>
2571 UBW / 5,00000 MHz		25.55 00m / 5.80000 MHz	
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5G NR n71 5MHz BPSK Low Channel RB2	5-0	5G NR n71 5MHz BPSK Middle Channel RB2	25-0

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★ Agilent 20:53:36 Jun 8, 2020 L	Freq/Channel	★ Agilent 20:54:58 Jun 8, 2020	Freq/Channel
Ch Freq 670.5 MHz Trig Free Adj Channel Power PASS	Center Freq 670.500000 MHz	Ch Freq 680.5 MHz Trig Free Adj Channel Power PASS	Center Freq 680.500000 MHz
AP2021.4.1.19431.Cond F3	Start Freq 655.500000 MHz	AP2021.4.1.19431.Cond F3	Start Freq 665.500000 MHz
Ref 30 dBm         #Atten 30 dB           #Avg         PASS LIMIT1	Stop Freq 685.500000 MHz	Ref 30 dBm         #Atten 30 dB           #Avg         PASS LIMIT1	Stop Freq 695.500000 MHz
10 dB/ Offst	CF Step 3.00000000 MHz	10 dB/ Offst	CF Step 3.00000000 MHz
11.4 dB	Auto Man Freq Offset 0.00000000 Hz	11.4 dB	<u>Auto</u> Man Freq Offset 0.00000000 Hz
Center 670.50 MHz Span 30 MHz •Res BW 30 kHz •VBW 91 kHz •Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track	Center 680.50 MHz Span 30 MHz' •Res BW 30 kHz •VBW 91 kHz •Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track
RMS Results         Freq Offset         Ref Bil         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         7.650 MHz         100.0 kHz         -47.81         -22.03         -85.90         -60.12           25.78 dBm /         15.0000 HHz         142         -47.81         -22.03         -85.90         -60.12	0n <u>Off</u>	RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm Carrier Pover 7,650 MHz 100.0 kHz -47.86 -22.30 -85.92 -60.35 25.56 dBm / 15,8000 MHz	0n <u>0ff</u>
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5G NR n71 15MHz BPSK Low Channel RB	1_0	5G NR n71 15MHz BPSK Middle Channel RE	31-0
* Agilent 20:53:15 Jun 8, 2020	Freq/Channel	* Aqilent 20:55:34 Jun 8, 2020	Freq/Channel
Ch Freq 670.5 MHz Trig Free Adj Channel Power PASS	Center Freq 670.500000 MHz	Ch Freq 680.5 MHz Trig Free Adj Channel Power PRSS	Center Freq 680.500000 MHz
AP2021.4.1,19431,Cond F3	Start Freq 655.500000 MHz	AP2021.4.1.19431.Cond F3	Start Freq 665.500000 MHz
Ref 30 dBm • Atten 30 dB • Avg PASS LIMIT1	Stop Freq 685.500000 MHz	Ref 30 dBm +Rtten 30 dB +Rvg PASS LIMIT1	Stop Freq 695.500000 MHz
10 dB/ Offst	CF Step 3.00000000 MHz	10 dB/ Offst	CF Step 3.00000000 MHz
11.4 dB	Auto Man Freq Offset	11.4 dB	Auto Man Freq Offset
Center 670.50 MHz Span 30 MHz #Res BW 30 kHz #VBW 91 kHz #Sweep 2 s (1001 pts)	0.000000000 Hz Signal Track	Center 680,50 MHz Span 30 MHz" #Res BW 30 kHz #VBW 91 kHz #Sweep 2 s (1001 pts)	0.00000000 Hz Signal Track
RMS         Results         Freq         Offset         Ref         BW         dBc         Lower         dBm         Dapper         dBm           Carrier         Power         7.650         MHz         100.0         kHz         -86.98         -61.38         -51.32         -25.72           25.68         dBm /         15.0800         HHz         -86.98         -61.38         -51.32         -25.72	On <u>Off</u>	RMS         Results         Freq         Offset         Ref         BM         dBc         Lower dBm         dBc         Upper dBm           Carrier         Power         7.650         MHz         100.0         kHz         -86.28         -50.80         -50.21         -24.74           25.47         dBm /         15.0000         HHz         -50.21         -24.74	On <u>Off</u>
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5G NR n71 15MHz BPSK Low Channel RB1	-78	5G NR n71 15MHz BPSK Middle Channel RB	1-78
☆ Agilent 21:49:00 Jun 15, 2020	Freq/Channel	☆ Agilent 21:49:33 Jun 15, 2020         L	Freq/Channel
Ch Freq 670.5 MHz Trig Free Adj Channel Power PASS	Center Freq 670.500000 MHz	Ch Freq 680.5 MHz Trig Free Adj Channel Power PASS	Center Freq 680.500000 MHz
AP2021.4.1,19431.Cond F3	Start Freq 655.500000 MHz	AP2021.4.1,19431,Cond F3	<b>Start Freq</b> 663.000000 MHz
Ref 30 dBm Atten 30 dB •Avg PASS LIMIT1	<b>Stop Freq</b> 685.500000 MHz	Ref 30 dBm Atten 30 dB •Avg PRSS LIMITI	<b>Stop Freq</b> 698.000000 MHz
10 dB/ Offst	CF Step 3.00000000 MHz Auto Man	10 dB/ Offst	CF Step 3.50000000 MHz Auto Man
11.4 dB Center 670.50 MHz Span 30 MHz	<u>Auto</u> Man FreqOffset 0.00000000 Hz	11.4 dB Center 680.500 MHz Span 35 MHz	Freq Offset 0.00000000 Hz
Res BW 150 kHz     +VBW 470 kHz     +Sweep 2 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lower dBm     dBc Upper dBm	Signal Track On Off	Res BW 150 kHz     #VBW 470 kHz     #Sweep 2 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lover dBm     dBc Upper dBm	Signal Track On <u>Off</u>
Carrier Power 7.650 MHz 100.0 kHz -57.35 -31.70 -57.44 -31.80 25.64 dBm / 15.0000 MHz		Carrier Power 7.650 MHz 100.0 kHz -53.28 -27.65 -57.52 -31.90 25.62 dBm / 15.0000 MHz	
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5G NR n71 15MHz BPSK Low Channel RB7	/5-0	5G NR n71 15MHz BPSK Middle Channel RB	75-0

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* Agilent 20:57:45 Jun 8, 2020 L Freq/Cl	/Channel * Agilent 21:04:20 Jun 8, 2020 L Fr	req/Channel
		Center Freq 73.000000 MHz
	tart Freq 000000 MHz AP2021.4.1,19431,Cond F3 65	Start Freq 58.000000 MHz
Log PHSS LIMITI 705.500		Stop Freq 88.000000 MHz
	CF Step 000000 MHz Man         10	CF Step .00000000 MHz ito Man
dB Freq	eq Offset	Freq Offset
Carrier Power 7.650 MHz 100.0 kHz -47.92 -22.43 -86.63 -61.15	Off Carrier Power 10.15 MHz 100.0 kHz -53.38 -27.59 -87.31 -61.51	Signal Track
25.48 dBm / 15.0000 MHz	25.79 dBm / 20.0000 MHz	
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5G NR n71 15MHz BPSK High Channel RB1-0	5G NR n71 20MHz BPSK Low Channel RB1-0	)
		req/Channel
	Ch Freq         673 MHz         Trig         Free         67           000000 MHz         Adj Channel Power         PASS         67	Center Freq 73.000000 MHz
AP2021.4.1,19431,Cond F3	AP2021.4.1,19431,Cond F3	Start Freq 58.000000 MHz
	Stop Freq +Avg Docc ThuT1	<b>Stop Freq</b> 88.000000 MHz
	CF Step dB/ 00000 MHz 0ffst 33.	CF Step .00000000 MHz .to Man
dB Freq	eg Offset	FreqOffset
#Res BW 30 kHz         #VBW 91 kHz         #Sweep 2 s (1001 pts)           RMS Results Freq Offset Ref BW         dBc Lover dBm         dBc Upper dBm           Carrier Pover 7.550 MHz         1000. kHz         -56.32         -25.20	#Res BW 30 kHz         #VBW 91 kHz         #Sweep 2 s (1001 pts)           Inal Track         RMS Results Freq Offset         Ref BW         dBc         Lover dBm         dBc         Upper dBm           Carrier Pover         18.15 MHz         198.06 kHz         -87.17         -61.65         -57.82         -32.38         On	Signal Track
25.32 dBm / 1000 Mil 2000 Mil 2000 Con 2 0002 2002 2000 -	25.51 dBm / 20.000 mil 0012 012 012 012 012 012 012 012 012 01	
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5G NR n71 15MHz BPSK High Channel RB1-78	5G NR n71 20MHz BPSK Low Channel RB1-10	)5
* Agilent 21:49:58 Jun 15, 2020 L Freq/Ch:		eq/Channel
Ch Freq         690.5 MHz         Trig         Free         Center         690.50000           Adj Channel Power         PRSS		<b>Center Freq</b> 3.000000 MHz
AP2021.4.1,19431,Cond F3 673.00000	0000 MHz AP2021.4.1,19431,Cond F3	Start Freq 3.000000 MHz
Ref 30 dBm         Atten 30 dB         Stop           eAvg         PASS LIMITI         708.00000           10         10         10	op Freq 0000 MHz         Ref 30 dBm         Atten 30 dB         693           PRSS LIMIT1         693         693	Stop Freq 3.000000 MHz
10 dB/ Offst 11.4 CF 3,500000 <u>Auto</u>	CF Step	<b>CF Step</b> 00000000 MHz 0 Man
	g Offset	F <b>reqOffset</b> 00000000 Hz
*Res BW 150 kHz	#Res BW 200 kHz #VBW 620 kHz #Sweep 2 s (1001 pts)	ignal Track Off
25,55 dBm / 15,6000 HHz	25.67 dBm / 16.15 m2 100.0 km2 -30.09 -31.02 -00.44 -34.70	
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5G NR n71 15MHz BPSK High Channel RB75-0	5G NR n71 20MHz BPSK Low Channel RB100-	-0

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★ Agilent 21:02:24 Jun 8, 2020	Freq/Channel	* Agilent 21:01:54 Jun 8, 2020	Freq/Channel
Ch Freq 683 MHz Trig Free	Center Freq 683.000000 MHz	Ch Freq 688 MHz Trig Free	Center Freq 688.000000 MHz
Adj Channel Power         PASS	Start Freq 668.000000 MHz	Adj Channel Power         PASS           AP2021.4.1,19431,Cond F3         6	Start Freq 670.500000 MHz
Ref 30 dBm •Atten 30 dB •Avg PASS LIMIT1	Stop Freq 698.000000 MHz	Ref 30 dBm + 0 dB	<b>Stop Freq</b> 705.500000 MHz
10 // // // // // // // // // // // // //	CF Step 3.00000000 MHz Auto Man	10	CF Step 3.50000000 MHz Auto Man
11.4 dB Center 683,00 MHz Span 30 MHz	Freq Offset	11.4 dB Center 688.000 MHz Span 35 MHz <sup>-</sup>	Freq Offset 0.00000000 Hz
•Res BW 30 kHz         •VBW 91 kHz         •Sweep 2 s (1001 pts)           RMS Results Freq Offset         Ref BW         dBc Lover dBm         dBc Upper dBm	Signal Track	Res BW 30 kHz     WVBW 91 kHz     Sweep 2 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lover dBm     dBc Upper dBm	Signal Track
Carrier Pover 10.15 MHz 100.0 kHz -53.81 -28.27 -86.55 -61.00 25.54 dBm / 20.0000 MHz		Carrier Power 10.15 MHz 100.0 kHz -54.14 -28.52 -86.85 -61.23 25.62 dBm / 20.0000 MHz	
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5G NR n71 20MHz BPSK Middle Channel RE	31-0	5G NR n71 20MHz BPSK High Channel RB	1-0
★ Agilent 21:02:44 Jun 8, 2020	Freq/Channel		Freq/Channel
Ch Freq 683 MHz Trig Free Adj Channel Power PASS	Center Freq 683.000000 MHz	Ch Freq 688 MHz Trig Free Adj Channel Power PASS	Center Freq 688.000000 MHz
HP2021.4.1,19431,Cond F3	Start Freq 668.000000 MHz	HP2021.4.1,19431,Cond F3	Start Freq 670.500000 MHz
Ref 30 dBm •Atten 30 dB •Avg PR\$S LTMIT1	<b>Stop Freq</b> 698.000000 MHz	Ref 30 dBm •Atten 30 dB •Avg PR\$S LIMIT1	<b>Stop Freq</b> 705.500000 MHz
10 dB/ Offst	CF Step 3.00000000 MHz Auto Man	10	CF Step 3.50000000 MHz Auto Man
	Freq Offset		Freq Offset
Center 683.00 MHz Span 30 MHz" #Res BW 30 kHz #VBW 91 kHz #Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track	Center 688.000 MHz Span 35 MHz" #Res BW 30 kHz #VBW 91 kHz #Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	Signal Track
Carrier Power 19.15 MHz 190.0 kHz -87.03 -51.58 -58.62 -33.16 25.46 dBm / 28.0800 MHz	0n <u>Off</u>	Carrier Power 10.15 MHz 100.0 kHz -87.02 -61.77 -57.47 -32.22 28.0800 HHz	0n <u>Off</u>
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5G NR n71 20MHz BPSK Middle Channel RB1		5G NR n71 20MHz BPSK High Channel RB1	
	Freq/Channel Center Freq		Freq/Channel Center Freg
Ch Freq 683 MHz Trig Free Adj Channel Power PASS	683.000000 MHz	Ch Freq 688 MHz Trig Free Adj Channel Power PRSS	688.000000 MHz
AP2021.4.1,19431,Cond F3	Start Freq 663.000000 MHz	HP2021.4.1,19431,Cond F3	Start Freq 668.000000 MHz
203	<b>Stop Freq</b> 703.000000 MHz		<b>Stop Freq</b> 708.000000 MHz
	<b>CF Step</b> 4.00000000 MHz Auto Man		<b>CF Step</b> 4.00000000 MHz Auto Man
11.4 dB Center 683.00 MHz Span 40 MHz <sup>2</sup>	Freq Offset 0.00000000 Hz	11.4 dB Center 688.00 MHz Span 40 MHz	Freq Offset 0.00000000 Hz
Res BW 200 kHz     *VBW 620 kHz     *Sweep 2 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lower dBm     dBc Upper dBm     c	Signal Track	Res BW 200 kHz     *VBW 620 kHz     *Sweep 2 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lover dBm     dBc <sup>Upper</sup> dBm	Signal Track
Carrier Power 10.15 MHz 100.0 kHz -55.16 -29.56 -56.87 -31.27 25.60 dm / 20.0000 MHz		Carrier Pover 10.15 MHz 100.0 kHz -58.10 -32.53 -68.75 -35.10 25.65 46 / 28.0000 MHz	
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5G NR n71 20MHz BPSK Middle Channel RB1	100-0	5G NR n71 20MHz BPSK High Channel RB10	

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## 9.2.15. 5G NR n77 ADJACENT CHANNEL POWER (Part 27 3450-3550MHz)

## LIMITS

FCC: §27.53

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band: (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (n)(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, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 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.

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ዡ Agilent 18:32:21 Jun 8, 2020	Freq/Channel	☆ Agilent 18:35:26 Jun 8, 2020	Freq/Channel
Ch Freq 3.47 GHz Trig Free	Center Freq 3.47000000 GHz	Ch Freq 3.5 GHz Trig Freq	Center Freq 3.50000000 GHz
Adj Channel Power PASS	Start Freq 3.42500000 GHz	Adj Channel Power PASS	Start Freq 3.45500000 GHz
AP2021.4.1.19431.Cond F3           Ref 30 dBm         •Atten 30 dB           •Avg         PACS LIMIT1           Log         10           10         11           dB/         11	Stop Freq 3.51500000 GHz CF Step 9.00000000 MHz	AP2021.4.1,19431,Cond F3 Ref 30 dBm •Atten 30 dB *Avg PASS LIMIT1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stop Freq 3.54500000 GHz CF Step 9.00000000 MHz
12.7 dB Center 3.470 00 GHz Span 90 MHz	<u>Auto</u> Man Freq Offset 0.00000000 Hz	12.7 dB Center 3.500 00 GHz Span 90 MHZ	<u>Auto</u> Man Freq Offset 0.00000000 Hz
Ress BW 51 kHz         #VBW 160 kHz         #Sweep 2 s (1001 pts)           RMS Results         Freq Offset         Ref BW         dBc         Lover dBm         dBc         Upper dBm           Carrier Power         21.50 MHz         1.000 MHz         -61.04         -37.00         -71.56         -47.51	<b>Signal Track</b> On <u>Off</u>	#Res BM 51 kHz         #VBW 160 kHz         #Sweep 2 s (1001 pts)           RMS Results Freq Offset Ref BM         dBc Lover dBm         dBc Upper dBm           Carrier Pover 21.50 MHz         1.080 MHz -61.03         -37.01 -71.69         -47.67	<b>Signal Track</b> On <u>Off</u>
24.04 dBm / 37.75 MHz 1.000 MHz -70.99 -46.95 -71.58 -47.53 40.0000 MHz		24.02 dBm / 37.75 MHz 1.000 MHz -71.16 -47.15 -71.57 -47.55 40.0000 MHz	
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5G NR n77 40MHz BPSK Low Channel RB1	1-0	5G NR n77 40MHz BPSK Middle Channel RB	31-0
★ Agilent 18:31:57 Jun 8, 2020	Freq/Channel	★ Agilent 18:35:53 Jun 8, 2020	Freq/Channel
Ch Freq 3.47 GHz Trig Free Adj Channel Power PRSS	Center Freq 3.47000000 GHz	Ch Freq 3.5 GHz Trig Free Adj Channel Power PASS	Center Freq 3.50000000 GHz
AP2021.4.1.19431,Cond F3 Ref 30 dBm •Atten 30 dB	Start Freq 3.42500000 GHz	AP2021.4.1.19431,Cond F3 Ref 30 dBm •Atten 30 dB	Start Freq 3.45500000 GHz
	Stop Freq 3.51500000 GHz	PASS LIMITI	Stop Freq 3.54500000 GHz
dB/ Offst 12.7 dB	CF Step 9.00000000 MHz <u>Auto</u> Man Freq Offset	dB/ 0ffst 12.7 dB	CF Step 9.00000000 MHz <u>Auto</u> Man Freq Offset
Center 3.470 00 GHz Span 90 MHz *Res BW 51 kHz #VBW 160 kHz #Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc Lover dBm dBc Upper dBm	0.00000000 Hz Signal Track	Center 3.500 00 GHz Span 90 MHz <sup>2</sup> #Res BW 51 kHz #VBW 160 kHz #Sweep 2 s (1001 pts) RMS Results Freq Offset Ref BW dBc <sup>Lower</sup> dBm dBc <sup>Upper</sup> dBm	0.00000000 Hz Signal Track
RMS         Results         Freq         Offset         Ref BN         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         21.50         HHz         1.080         MHz         -71.31         -47.35         54.41         -40.43           23.99         dBm         /         37.75         HHz         1.080         MHz         -71.17         -47.19         -71.41         -47.42           40.8080         MHz         -71.37         -47.19         -71.41         -47.42	0n <u>0ff</u>	RMS         Results         Freq Offset         Ref But         dBc         Lover dBm         dBc         Upper dBm           Carrier Pover         21.58         HHz         1.080         MHz         -71.2         -47.38         -64.41         -48.51           23.91         dBm         / 37.75         MHz         1.080         MHz         -71.29         -47.39         -71.24         -47.34           40.0000         MHz         /         /         /         /         -47.34	0n <u>Off</u>
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5G NR n77 40MHz BPSK Low Channel RB1-	105	5G NR n77 40MHz BPSK Middle Channel RB1	-105
★ Agilent 18:32:52 Jun 8, 2020	Freq/Channel	★ Agilent 18:34:59 Jun 8, 2020	Freq/Channel
Ch Freq 3.47 GHz Trig Free Rdj Channel Power PRSS	Center Freq 3.47000000 GHz	Ch Freq 3.5 GHz Trig Free Adj Channel Power PASS	Center Freq 3.50000000 GHz
AP2021.4.1.19431,Cond F3	Start Freq 3.42500000 GHz	AP2021.4.1,19431,Cond F3	Start Freq 3.45500000 GHz
Ref 30 dBm •ftten 30 dB *Avg PASS LIMIT1	Stop Freq 3.51500000 GHz	Ref 30 dBm +Atten 30 dB +Avg PASS LIMIT1	Stop Freq 3.54500000 GHz
dB/ Offst 12.7 dB	CF Step 9.0000000 MHz <u>Auto</u> Man	dB/ Offst 12.7	CF Step 9.0000000 MHz <u>Auto</u> Man
Center 3.470 00 GHz Span 90 MHz •Res BW 510 kHz •VBW 1.6 MHz •Sweep 2 s (1001 pts)	Freq Offset 0.00000000 Hz	Center 3.500 00 GHz *Res BW 510 kHz *VBW 1.6 MHz *Sweep 2 s (1001 pts)	FreqOffset 0.00000000 Hz
RMS Results         Freq Offset         Ref BH         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         21.50 MHz         1.000 MHz         -53.56         -26.50         -56.91         -29.85           27.06 dBm /         37.75 MHz         1.000 MHz         -56.63         -29.57         -59.15         -32.09           40.0000 MHz         40.000 MHz         -56.63         -29.57         -59.15         -32.09	Signal Track <sup>On <u>Off</u></sup>	RMS Results         Freq Dffset         Ref BH         dBc         Lover dBm         dBc         Upper dBm           Carrier         Pover         21.50 MHz         1.000 MHz         -54.63         -27.77         -58.30         -31.45           26.86 dBm         /         37.75 MHz         1.000 MHz         -57.63         -30.78         -60.34         -33.48           40.8000 MHz         MHz         -57.63         -30.78         -60.34         -33.48	Signal Track <sup>On <u>Off</u></sup>
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5G NR n77 40MHz BPSK Low Channel RB100-0		5G NR n77 40MHz BPSK Middle Channel RB100-0	

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