

Conducted Power Measurement Results (FCC)

Channel Frequency (MHz)	LTE Band	Nominal Channel BW [BW _{ch}] (MHz)	SG Mode	Measured SG Power [P _{SG}] (dBm)	Measured DUT Power [P _{DUT}] (dBm)	DUT Antenna Gain [G _A] [dBd]	e.r.p. (dBm)	e.r.p. (W)	Limit (W)	Limit (dBm)	Margin (dB)	DUT Gain [G _{DUT}] (dB)
700.5	12 UL	5	Pre-AGC	-72.97	22.59	14.00	36.59	4.56	1000.0	60.0	23.4	95.6
			Post-AGC	-69.58	22.64		36.64	4.61				92.2
703		10	Pre-AGC	-72.80	23.15		37.15	5.19				96.0
			Post-AGC	-69.40	23.28		37.28	5.35				22.7
Complies												

$e.r.p. (dBm) = P_{DUT} + G_A$

$Margin = Limit - e.r.p. \text{ in dB}$

$G_{DUT} = P_{DUT} - P_{SG}$

Conducted Power Measurement Results (ISED)

Channel Frequency (MHz)	LTE Band	Nominal Channel BW [BW _{ch}] (MHz)	SG Mode	Measured SG Power [P _{SG}] (dBm)	Measured DUT Power [P _{DUT}] (dBm)	DUT Antenna Gain [G _A] [dBd]	e.r.p. (dBm/MHz)	e.r.p. (W/MHz)	Limit (W/MHz)	Limit (dBm/MHz)	Margin (dB)	DUT Gain [G _{DUT}] (dB)
700.5	12 UL	5	Pre-AGC	-72.97	22.59	14.00	29.89	0.97	1640.0	62.1	32.2	95.6
			Post-AGC	-69.58	22.64		29.94	0.99				92.2
703		10	Pre-AGC	-72.80	23.15		30.45	1.11				96.0
			Post-AGC	-69.40	23.28		30.58	1.14				31.5
Complies												

$e.r.p. (dBm/MHz) = P_{DUT} + G_A - BW_{Corr}$

$BW_{Corr} = 10\log(BW_{ch}/BW_{Req})$ where Required Bandwidth (BW_{Req}) = 1MHz, = 6.7 for 5MHz Channel BW, = 10 for 10MHz Channel BW

$BW_{Corr} = 6.7$ for 5MHz Channel BW, = 10 for 10MHz Channel BW

$Margin = Limit - e.r.p. \text{ in dB}$

$G_{DUT} = P_{DUT} - P_{SG}$

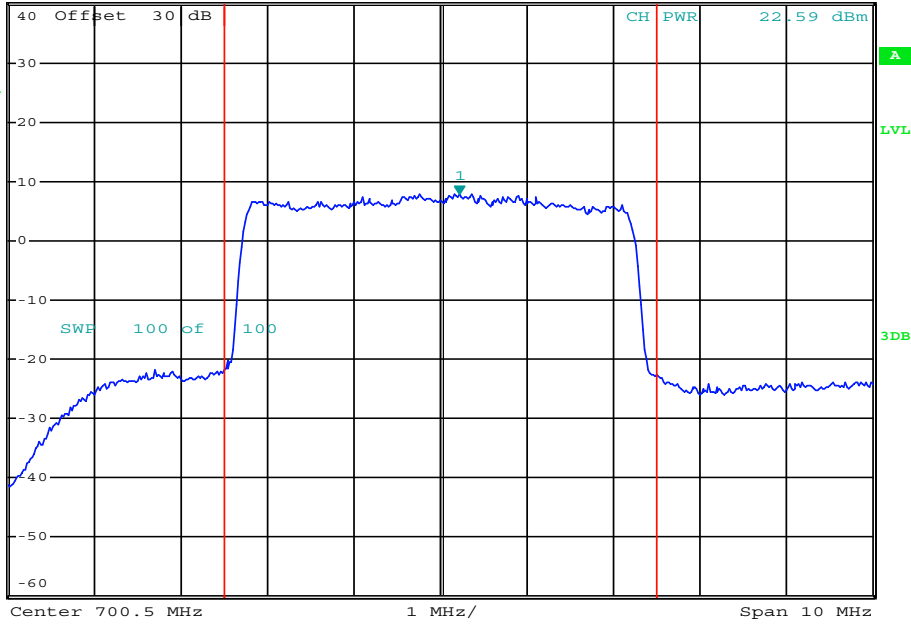
Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 7.92 dBm
 SWT 2.5 ms 700.72000000 MHz

Ref 40 dBm *Att 10 dB CH PWR 22.59 dBm

1 RM*
 VIEW



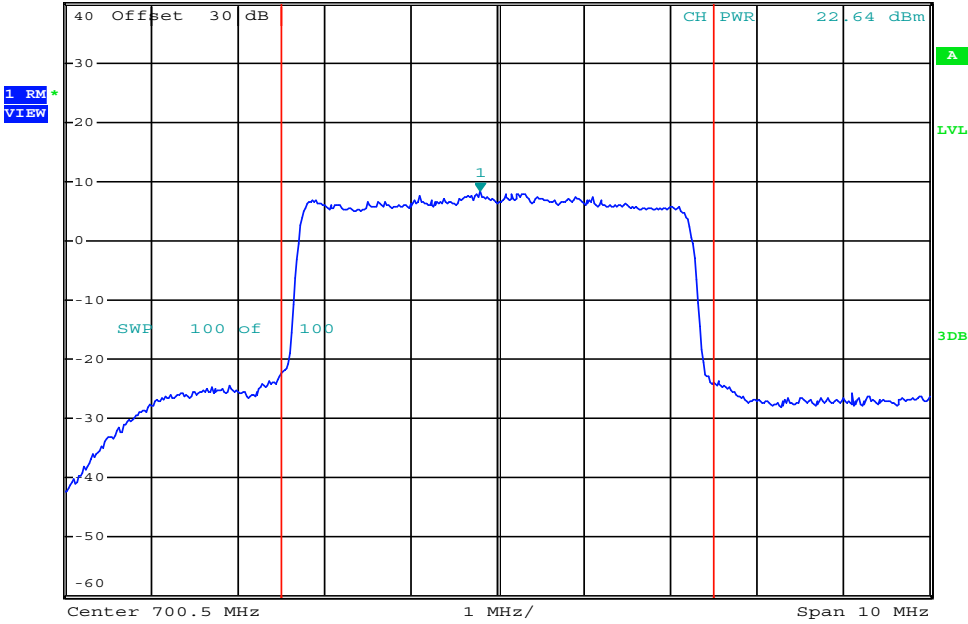
Date: 24.MAR.2021 10:56:04

Channel Frequency: 700.50 MHz	SG Mode: Pre-AGC	
LTE Band: 12 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: 22.59 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 8.25 dBm
 Ref 40 dBm *Att 10 dB SWT 2.5 ms 700.300000000 MHz



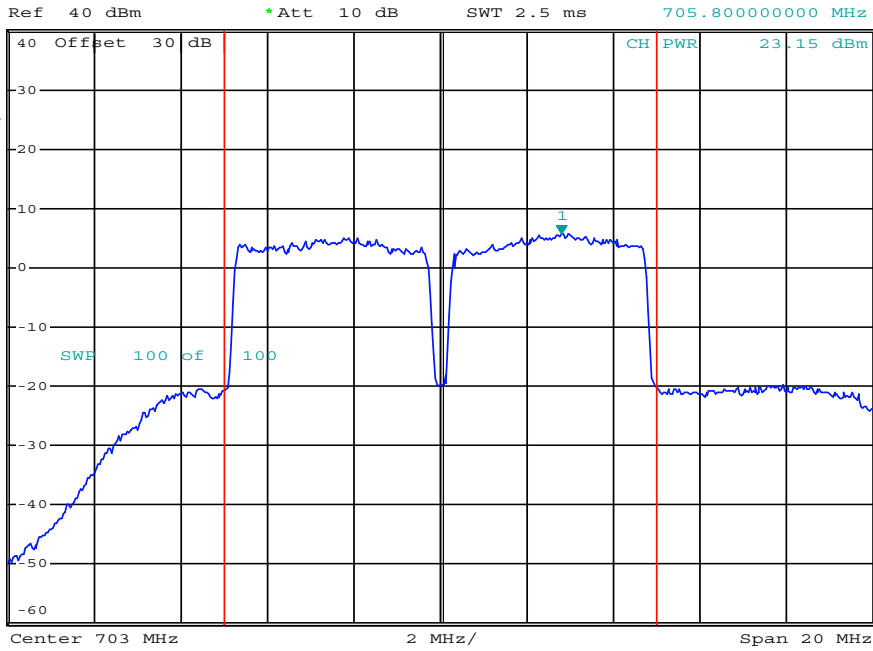
Date: 24.MAR.2021 10:57:25

Channel Frequency: 700.50 MHz	SG Mode: Post-AGC	
LTE Band: 12 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: 22.64 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 5.79 dBm
 SWT 2.5 ms 705.800000000 MHz



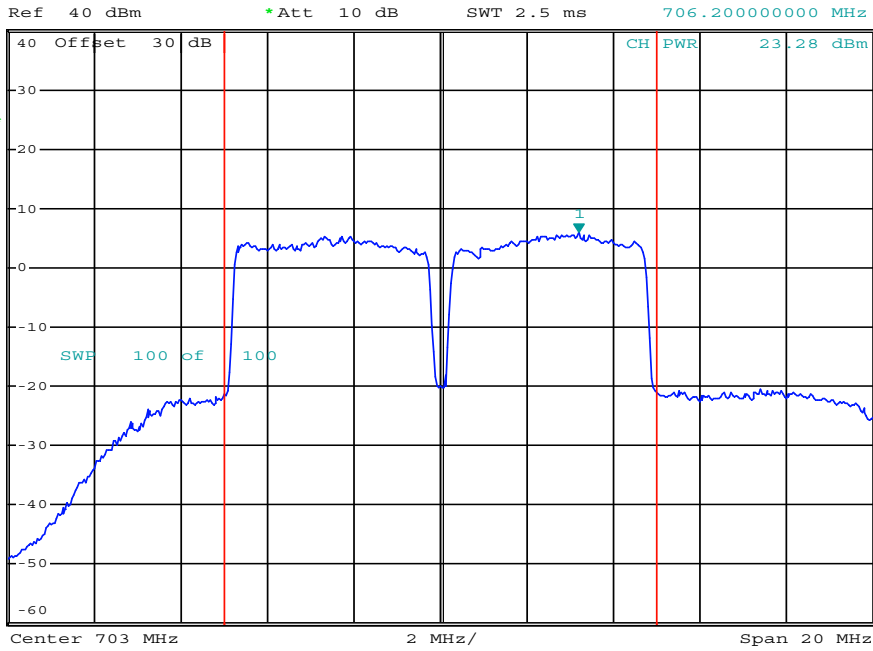
Date: 24.MAR.2021 11:03:18

Channel Frequency: 703.00 MHz	SG Mode: Pre-AGC	
LTE Band: 12 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: 23.15 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 6.03 dBm
 SWT 2.5 ms 706.200000000 MHz



Date: 24.MAR.2021 11:02:01

Channel Frequency: 703.00 MHz	SG Mode: Post-AGC	
LTE Band: 12 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: 23.28 dBm

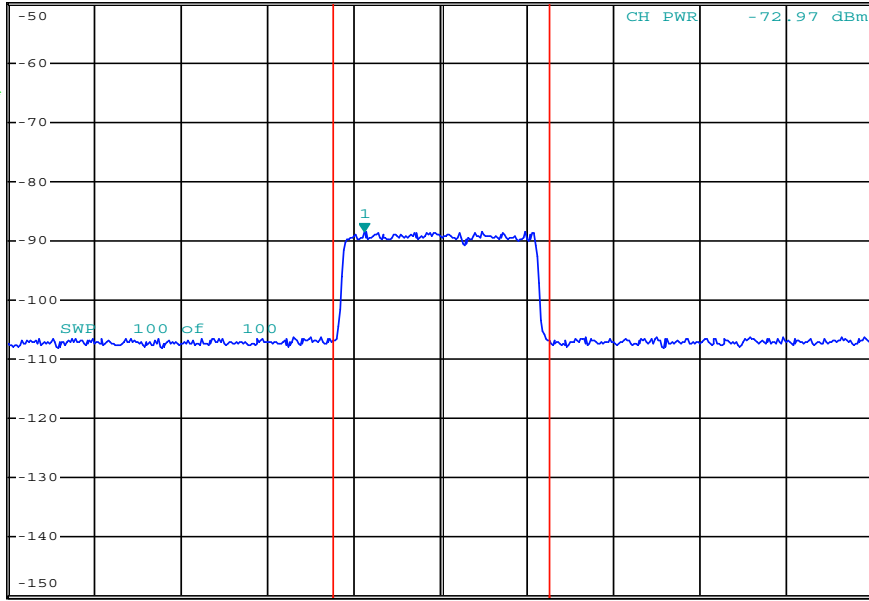
Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -88.36 dBm
 SWT 2.5 ms 698.74000000 MHz

Ref -50 dBm *Att 0 dB

1 RM*
 VIEW



Center 700.5 MHz 2 MHz/ Span 20 MHz

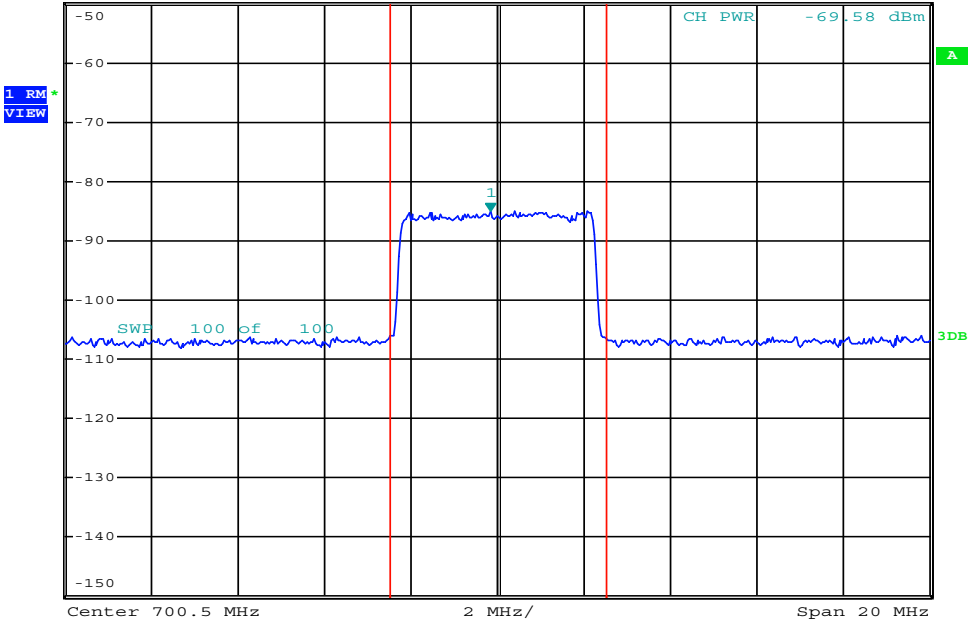
Date: 24.MAR.2021 11:21:45

Channel Frequency: 700.50 MHz	SG Mode: Pre-AGC	
LTE Band: 12 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: -72.97 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -85.10 dBm
 Ref -50 dBm *Att 0 dB SWT 2.5 ms 700.340000000 MHz



Date: 24.MAR.2021 11:21:14

Channel Frequency: 700.50 MHz	SG Mode: Post-AGC	
LTE Band: 12 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: -69.58 dBm

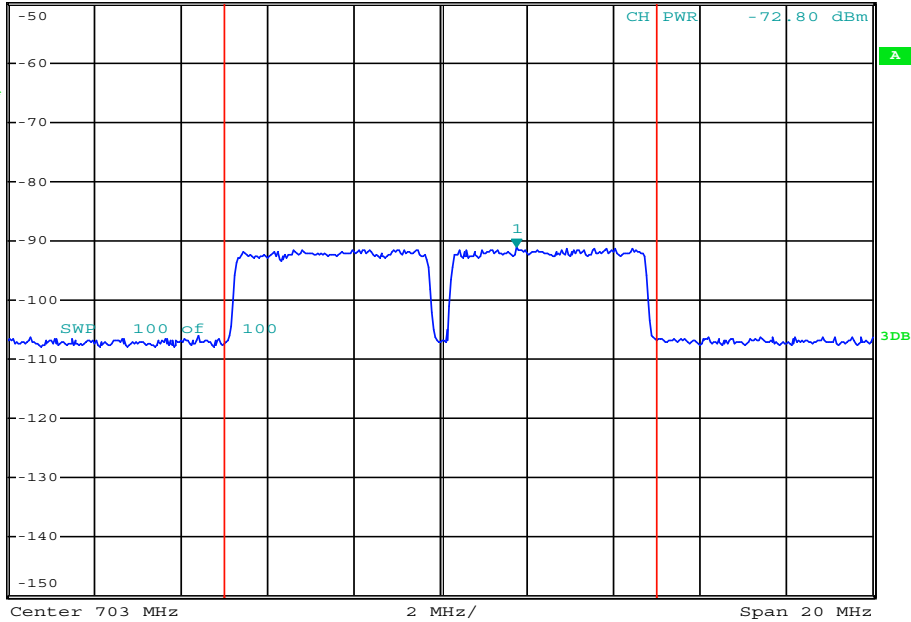
Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -91.17 dBm
 SWT 2.5 ms 704.760000000 MHz

Ref -50 dBm *Att 0 dB

1 RM*
 VIEW



Date: 24.MAR.2021 11:18:15

Channel Frequency: 703.00 MHz	SG Mode: Pre-AGC	
LTE Band: 12 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: -72.80 dBm

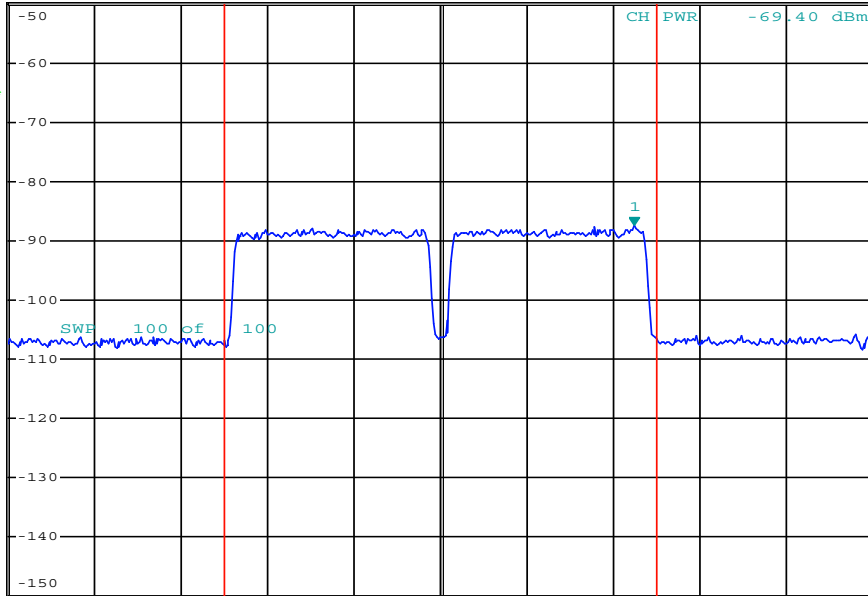
Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -87.42 dBm
 SWT 2.5 ms 707.48000000 MHz

Ref -50 dBm *Att 0 dB

1 RM*
 VIEW



Center 703 MHz 2 MHz/ Span 20 MHz

Date: 24.MAR.2021 11:19:22

Channel Frequency: 703.00 MHz	SG Mode: Post-AGC	
LTE Band: 12 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: -69.40 dBm

Conducted Power Measurement Results (FCC)

Channel Frequency (MHz)	LTE Band	Nominal Channel BW [BW _{ch}] (MHz)	SG Mode	Measured SG Power [P _{SG}] (dBm)	Measured DUT Power [P _{DUT}] (dBm)	DUT Antenna Gain [G _A] [dBd]	e.r.p. (dBm)	e.r.p. (W)	Limit (W)	Limit (dBm)	Margin (dB)	DUT Gain [G _{DUT}] (dB)
782	13 UL	5	Pre-AGC	-66.73	24.51	14.00	38.51	7.10	1000.0	60.0	21.5	91.2
			Post-AGC	-63.22	25.26		39.26	8.43			20.7	88.5
		10	Pre-AGC	-66.56	24.83		38.83	7.64			21.2	91.4
			Post-AGC	-63.30	25.93		39.93	9.84			20.1	89.2
Complies												

$e.r.p. (dBm) = P_{DUT} + G_A$

$Margin = Limit - e.r.p. \text{ in dB}$

$G_{DUT} = P_{DUT} - P_{SG}$

Conducted Power Measurement Results (ISED)

Channel Frequency (MHz)	LTE Band	Nominal Channel BW [BW _{ch}] (MHz)	SG Mode	Measured SG Power [P _{SG}] (dBm)	Measured DUT Power [P _{DUT}] (dBm)	DUT Antenna Gain [G _A] [dBd]	e.r.p. (dBm/MHz)	e.r.p. (W/MHz)	Limit (W/MHz)	Limit (dBm/MHz)	Margin (dB)	DUT Gain [G _{DUT}] (dB)
782	13 UL	5	Pre-AGC	-66.73	24.51	14.00	31.81	1.52	1640.0	62.1	30.3	91.2
			Post-AGC	-63.22	25.26		32.56	1.80			29.5	88.5
		10	Pre-AGC	-66.56	24.83		32.13	1.63			30.0	91.4
			Post-AGC	-63.30	25.93		33.23	2.10			28.9	89.2
Complies												

$e.r.p. (dBm/MHz) = P_{DUT} + G_A - BW_{Corr}$

$BW_{Corr} = 10\log(BW_{Ch}/BW_{Req})$ where Required Bandwidth (BW_{Req}) = 1MHz, = 6.7 for 5MHz Channel BW, = 10 for 10MHz Channel BW

$BW_{Corr} = 6.7$ for 5MHz Channel BW, = 10 for 10MHz Channel BW

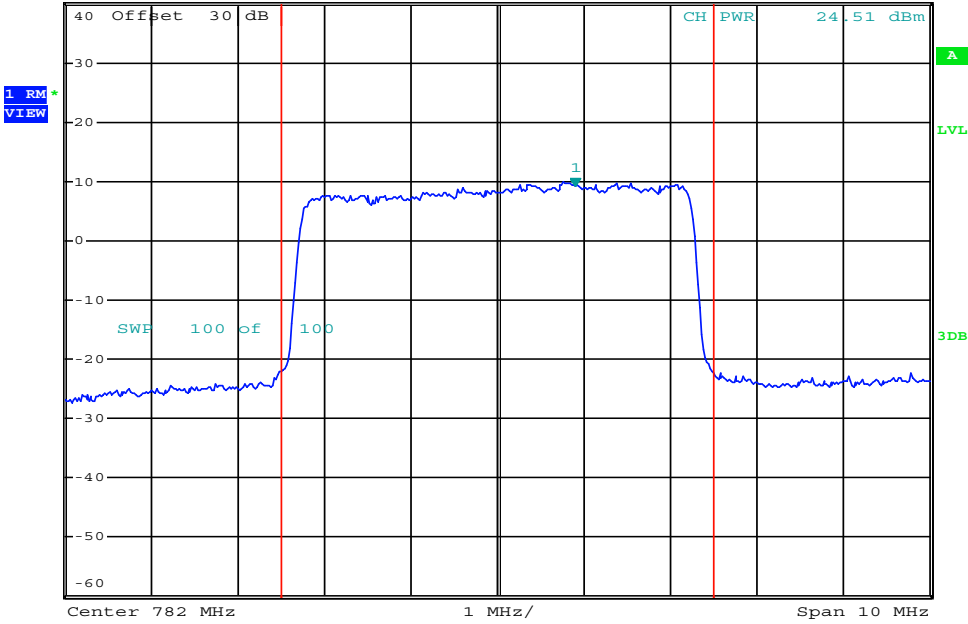
$Margin = Limit - e.r.p. \text{ in dB}$

$G_{DUT} = P_{DUT} - P_{SG}$

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 9.25 dBm
 Ref 40 dBm *Att 10 dB SWT 2.5 ms 782.900000000 MHz



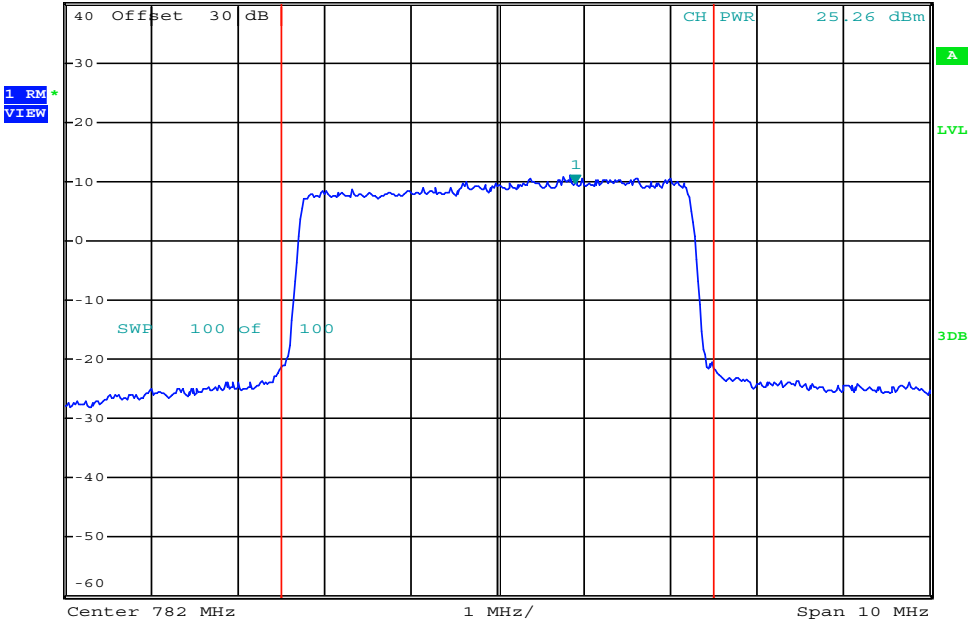
Date: 26.MAR.2021 08:30:12

Channel Frequency: 782.00 MHz	SG Mode: Pre-AGC	
LTE Band: 13 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: 24.51 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 9.57 dBm
 Ref 40 dBm *Att 10 dB SWT 2.5 ms 782.900000000 MHz



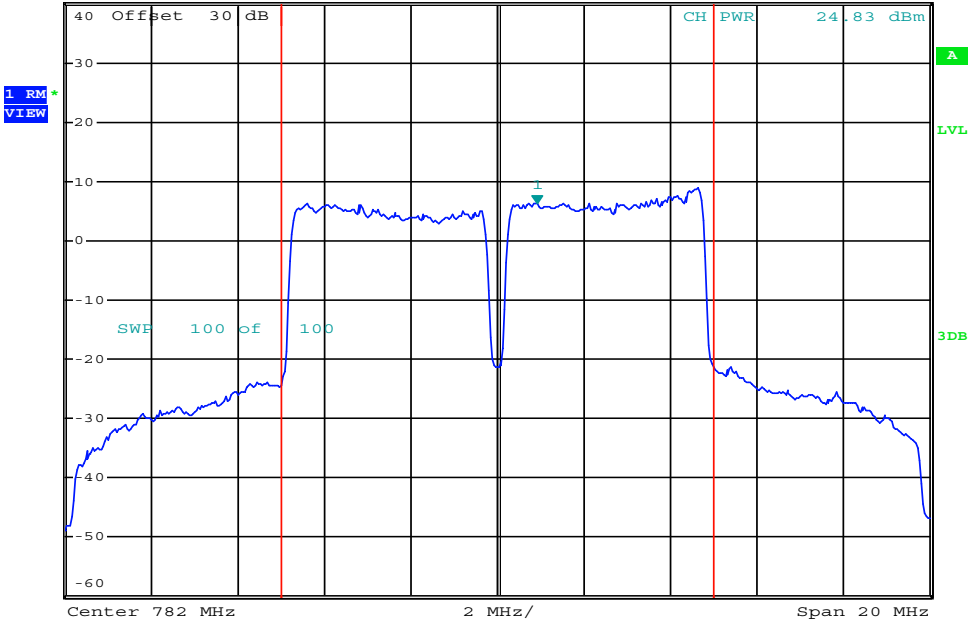
Date: 26.MAR.2021 08:31:03

Channel Frequency: 782.00 MHz	SG Mode: Post-AGC	
LTE Band: 13 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: 25.26 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 6.19 dBm
 Ref 40 dBm *Att 10 dB SWT 2.5 ms 782.900000000 MHz



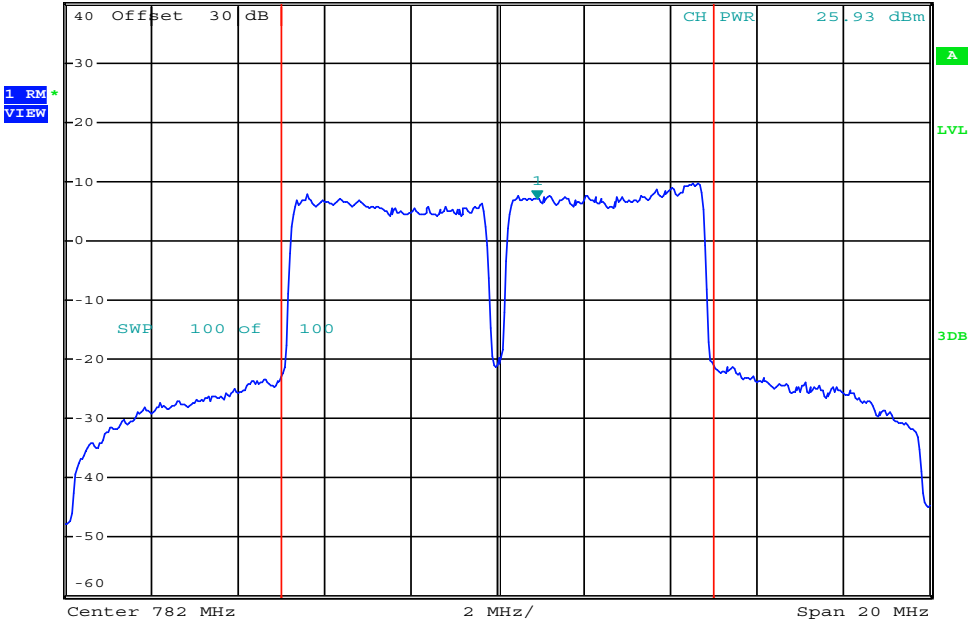
Date: 26.MAR.2021 08:25:20

Channel Frequency: 782.00 MHz	SG Mode: Pre-AGC	
LTE Band: 13 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: 24.83 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 7.13 dBm
 Ref 40 dBm *Att 10 dB SWT 2.5 ms 782.900000000 MHz



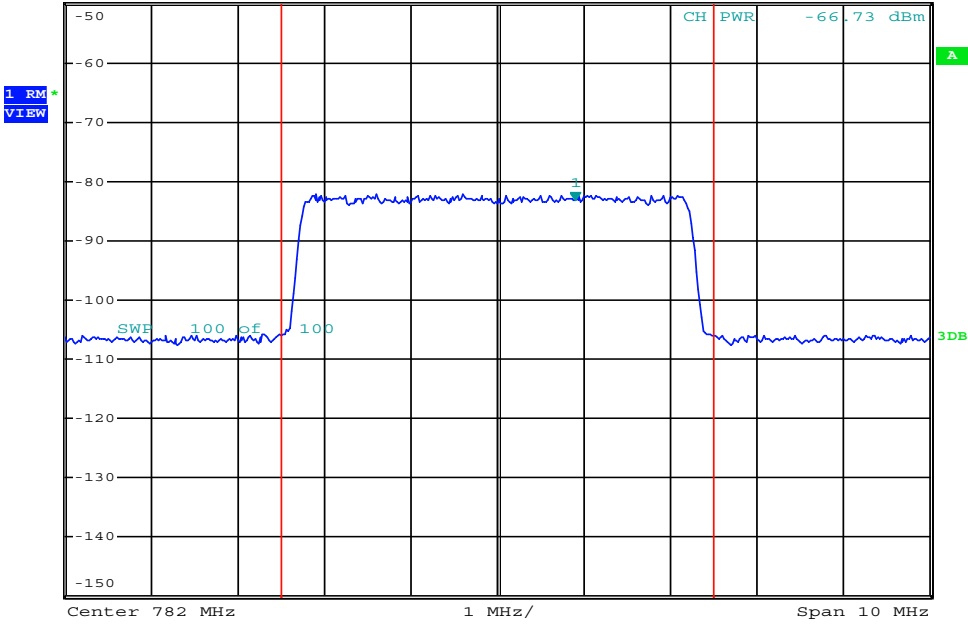
Date: 26.MAR.2021 08:27:30

Channel Frequency: 782.00 MHz	SG Mode: Post-AGC	
LTE Band: 13 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: 25.93 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -83.24 dBm
 Ref -50 dBm *Att 0 dB SWT 2.5 ms 782.900000000 MHz



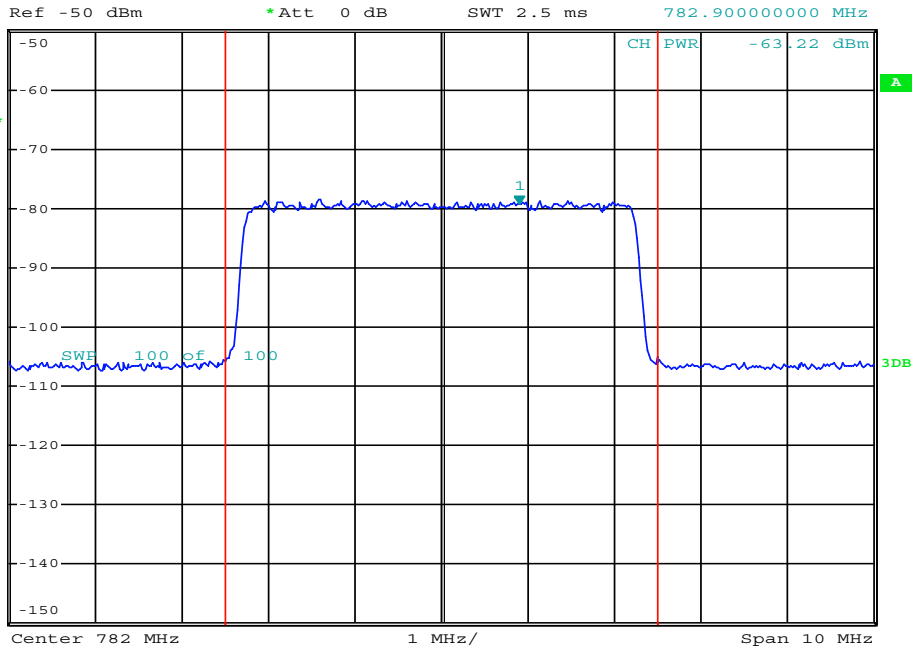
Date: 26.MAR.2021 08:34:45

Channel Frequency: 782.00 MHz	SG Mode: Pre-AGC	
LTE Band: 13 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: -66.73 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
VBW 1 MHz -79.39 dBm
SWT 2.5 ms 782.900000000 MHz



Date: 26.MAR.2021 08:35:45

Channel Frequency: 782.00 MHz	SG Mode: Post-AGC	
LTE Band: 13 UL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: -63.22 dBm

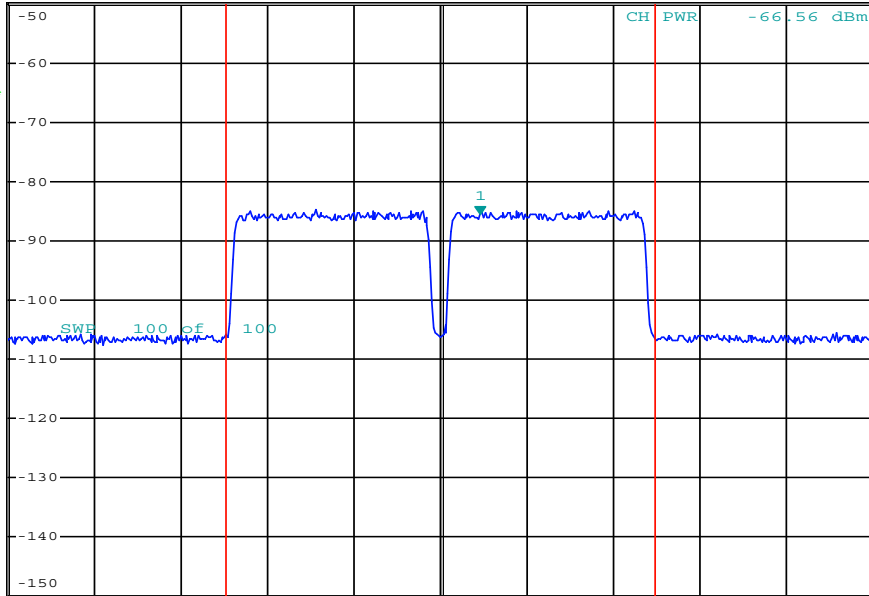
Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -85.68 dBm
 SWT 5 ms 782.900000000 MHz

Ref -50 dBm *Att 0 dB

1 RM*
 VIEW



Center 782 MHz 2.01 MHz/ Span 20.1 MHz

Date: 26.MAR.2021 08:40:02

Channel Frequency: 782.00 MHz	SG Mode: Pre-AGC	
LTE Band: 13 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: -66.56 dBm

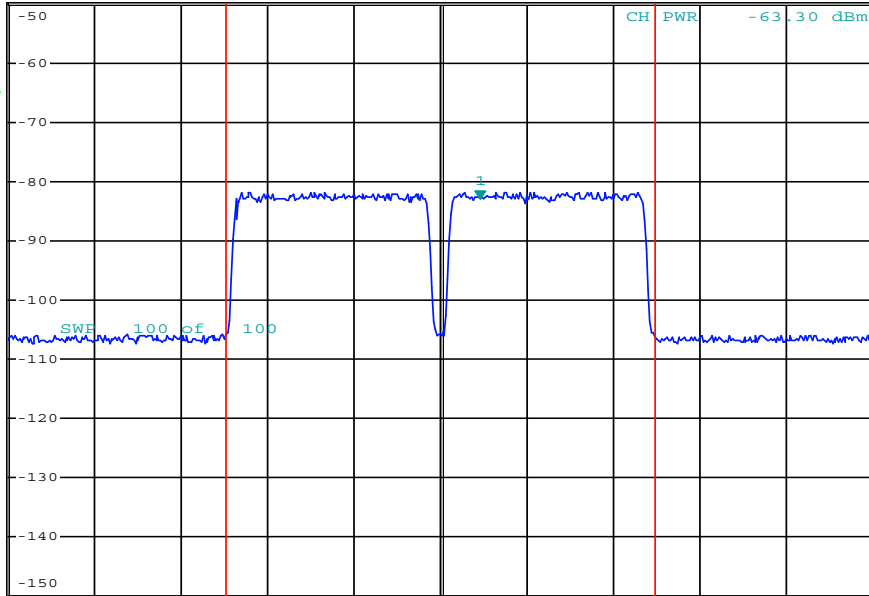
Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -83.01 dBm
 SWT 5 ms 782.900000000 MHz

Ref -50 dBm *Att 0 dB

1 RM*
 VIEW



Center 782 MHz 2.01 MHz/ Span 20.1 MHz

Date: 26.MAR.2021 08:39:21

Channel Frequency: 782.00 MHz	SG Mode: Post-AGC	
LTE Band: 13 UL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: -63.30 dBm

Conducted Power Results (FCC)

Channel Frequency (MHz)	LTE Band	Nominal Channel BW [BW _{ch}] (MHz)	SG Mode	Measured SG Power [P _{sg}] (dBm)	Measured DUT Power [P _{DUT}] (dBm)	DUT Antenna Gain [G _A] [dBd]	e.r.p. (dBm)	e.r.p. (W)	Limit (W)	Limit (dBm)	Margin (dB)	DUT Gain [G _{DUT}] (dB)
737	12 & 13 DL	5	Pre-AGC	-67.35	24.81	14.00	38.81	7.60	1000.0	60.0	21.2	92.2
			Post-AGC	-63.72	25.09		39.09	8.11			20.9	88.8
734.52		10	Pre-AGC	-67.56	25.06		39.06	8.05			20.9	92.6
			Post-AGC	-63.90	25.55		39.55	9.02			20.5	89.5
											Complies	

e.r.p. (dBm) = P_{DUT} + G_A
 Margin = Limit - e.r.p. in dB
 G_{DUT} = P_{DUT} - P_{SG}

Conducted Power (ISED)

Channel Frequency (MHz)	LTE Band	Nominal Channel BW [BW _{ch}] (MHz)	SG Mode	Measured SG Power [P _{sg}] (dBm)	Measured DUT Power [P _{DUT}] (dBm)	DUT Antenna Gain [G _A] [dBd]	e.r.p. (dBm/MHz)	e.r.p. (W/MHz)	Limit (W/MHz)	Limit (dBm/MHz)	Margin (dB)	DUT Gain [G _{DUT}] (dB)
782	13 DL	5	Pre-AGC	-67.35	24.81	14.00	32.11	1.63	1640.0	62.1	30.0	92.2
			Post-AGC	-63.72	25.09		32.39	1.73			29.7	88.8
		10	Pre-AGC	-67.56	25.06		32.36	1.72			29.7	92.6
			Post-AGC	-63.90	25.55		32.85	1.93			29.3	89.5
											Complies	

e.r.p. (dBm/MHz) = P_{DUT} + G_A - BW_{Corr}
 BW_{Corr} = 10Log(BW_{ch}/BW_{Req}) where Required Bandwidth (BW_{Req}) = 1MHz, = 6.7 for 5MHz Channel BW, = 10 for 10MHz Channel BW
 BW_{Corr} = 6.7 for 5MHz Channel BW, = 10 for 10MHz Channel BW
 Margin = Limit - e.r.p. in dB
 G_{DUT} = P_{DUT} - P_{SG}

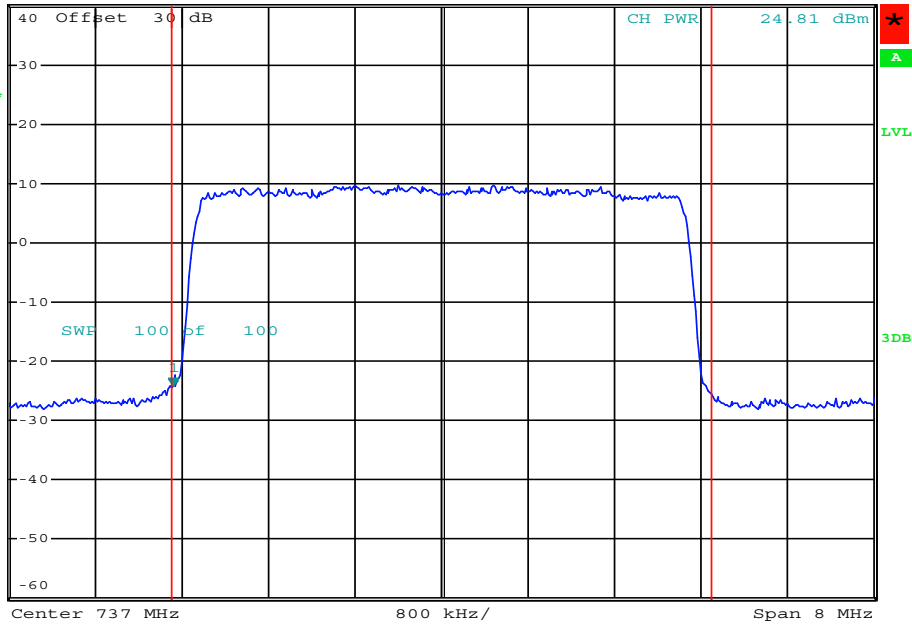
Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -24.28 dBm
 SWT 2.5 ms 734.52000000 MHz

Ref 40 dBm *Att 10 dB

1 RM*
 VIEW



Date: 16.MAR.2021 13:29:39

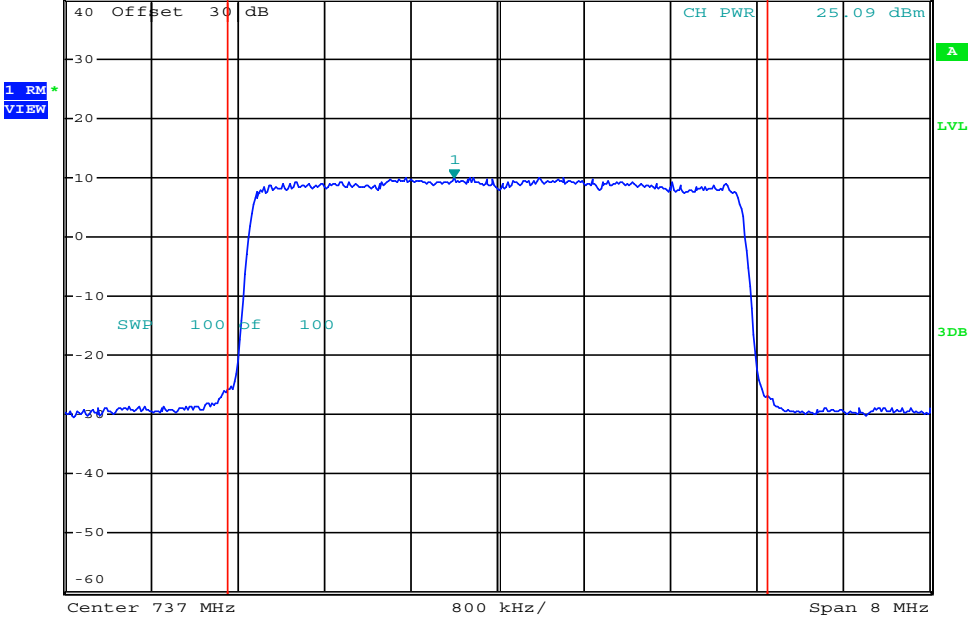
Channel Frequency: 737.00 MHz	SG Mode: Pre-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: 24.81 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 10.00 dBm
 SWT 2.5 ms 736.600000000 MHz

Ref 40 dBm *Att 30 dB



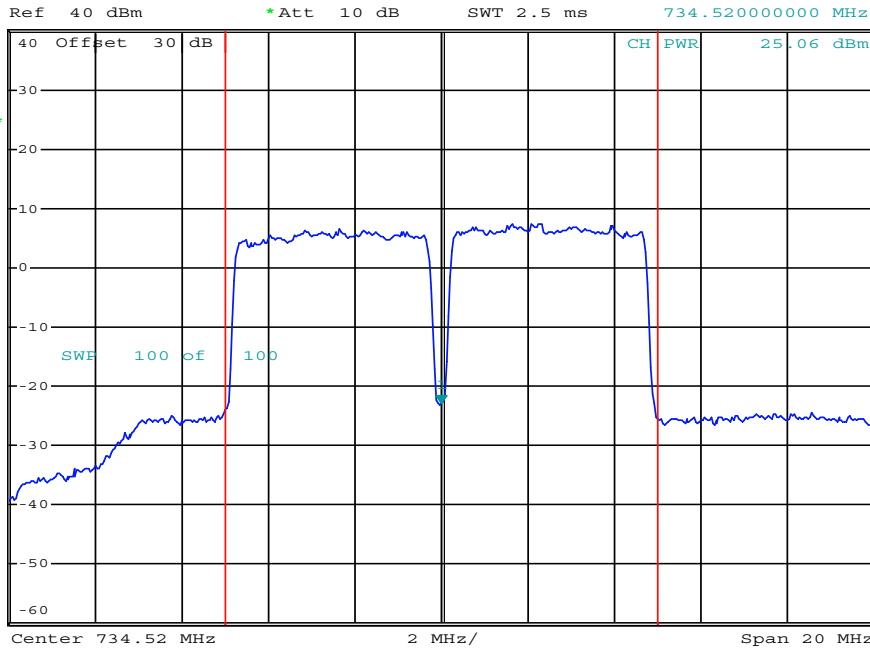
Date: 16.MAR.2021 13:50:01

Channel Frequency: 737.00 MHz	SG Mode: Post-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: 25.09 dBm

Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -22.73 dBm
 SWT 2.5 ms 734.52000000 MHz



Date: 16.MAR.2021 13:25:51

Channel Frequency: 734.52 MHz	SG Mode: Pre-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: 25.06 dBm

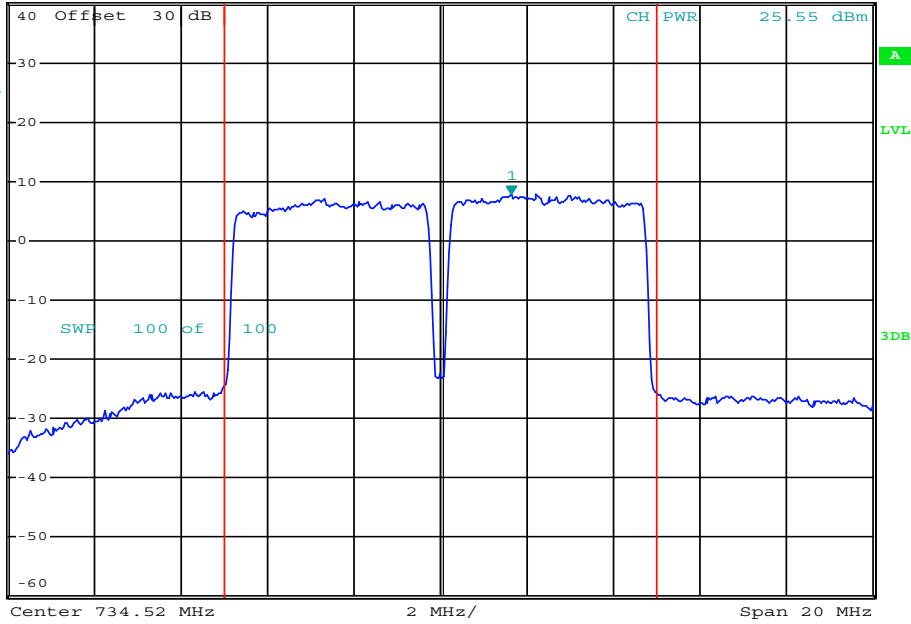
Conducted Output Power (DUT)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 7.90 dBm
 SWT 2.5 ms 736.16000000 MHz

Ref 40 dBm *Att 30 dB CH PWR 25.55 dBm

1 RM*
 VIEW



Date: 16.MAR.2021 14:09:33

Channel Frequency:
734.52 MHz

SG Mode:
Post-AGC

LTE Band:
12 & 13 DL

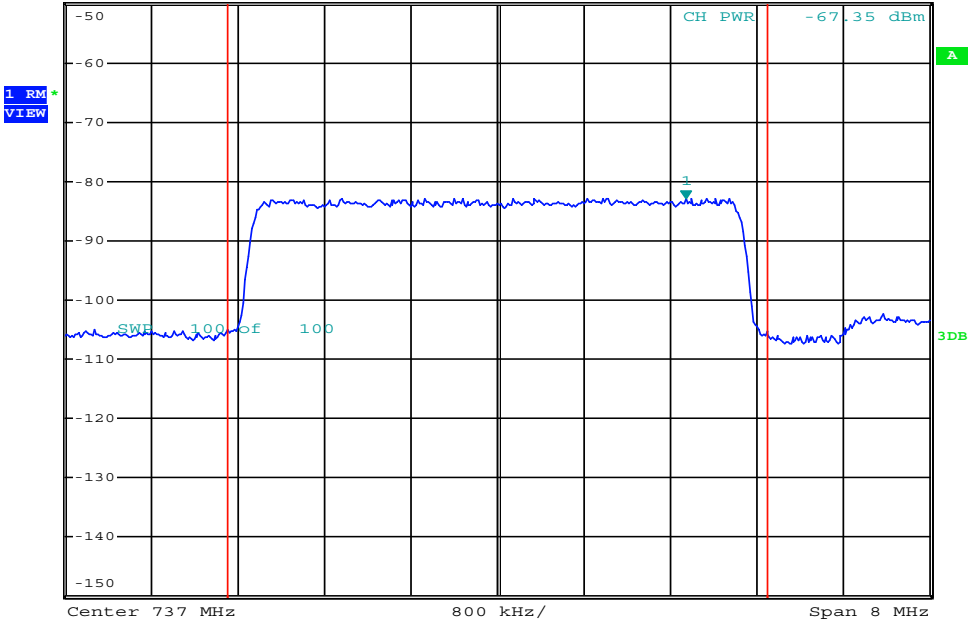
Channel Bandwidth:
10.0 MHz

Measured Channel Power:
25.55 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -82.83 dBm
 Ref -50 dBm *Att 0 dB SWT 2.5 ms 738.744000000 MHz



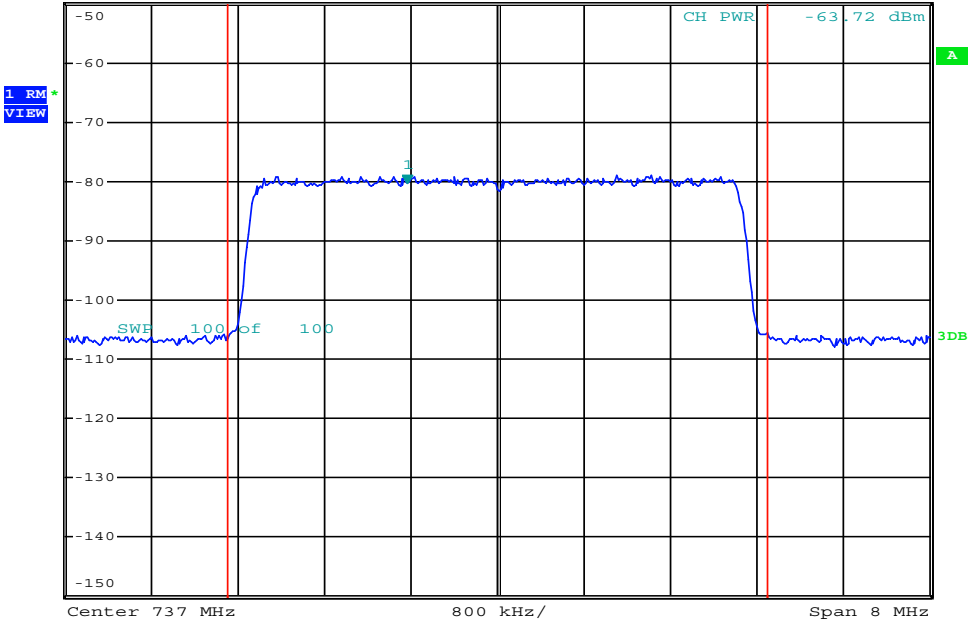
Date: 16.MAR.2021 13:33:11

Channel Frequency: 737.00 MHz	SG Mode: Pre-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: -67.35 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -80.19 dBm
 Ref -50 dBm *Att 0 dB SWT 2.5 ms 736.160000000 MHz



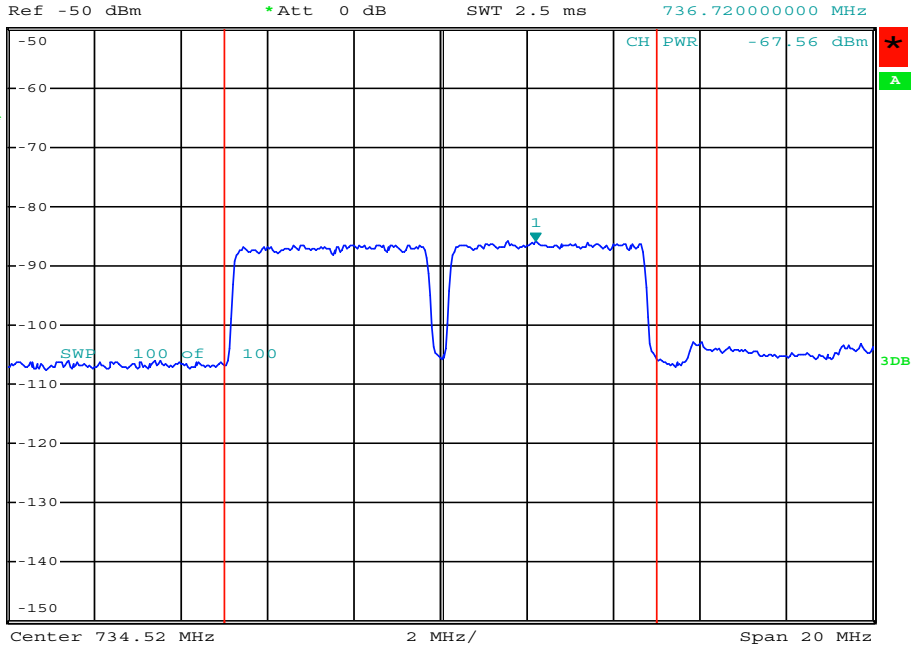
Date: 16.MAR.2021 14:15:37

Channel Frequency: 737.00 MHz	SG Mode: Post-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 5.0 MHz	Measured Channel Power: -63.72 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -85.80 dBm
 SWT 2.5 ms 736.72000000 MHz



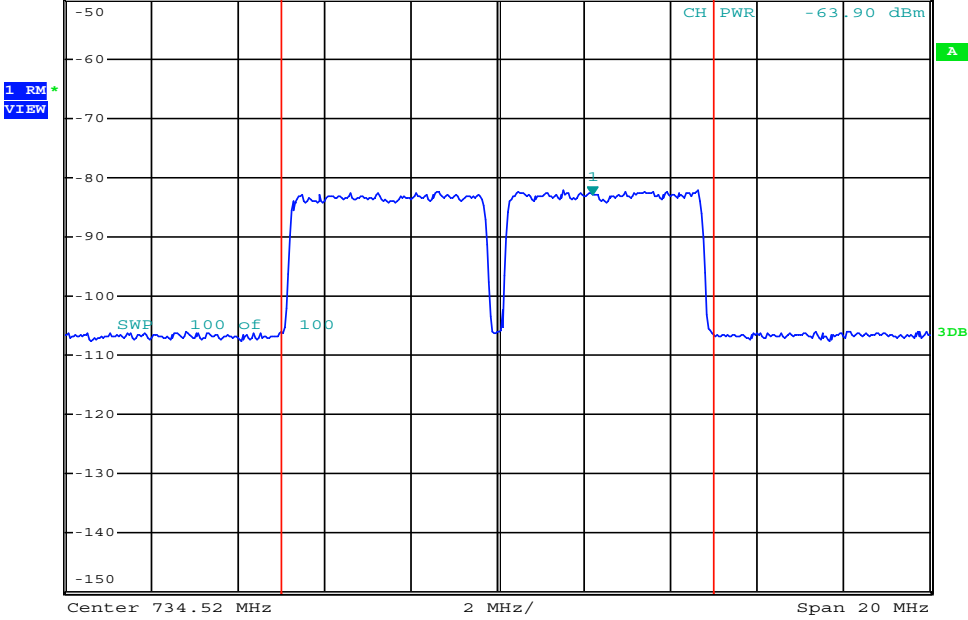
Date: 16.MAR.2021 13:35:25

Channel Frequency: 734.52 MHz	SG Mode: Pre-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: -67.56 dBm

Conducted Output Power (SG)



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -82.90 dBm
 Ref -50 dBm *Att 0 dB SWT 2.5 ms 736.72000000 MHz



Date: 16.MAR.2021 13:40:44

Channel Frequency: 734.52 MHz	SG Mode: Post-AGC	
LTE Band: 12 & 13 DL	Channel Bandwidth: 10.0 MHz	Measured Channel Power: -63.90 dBm