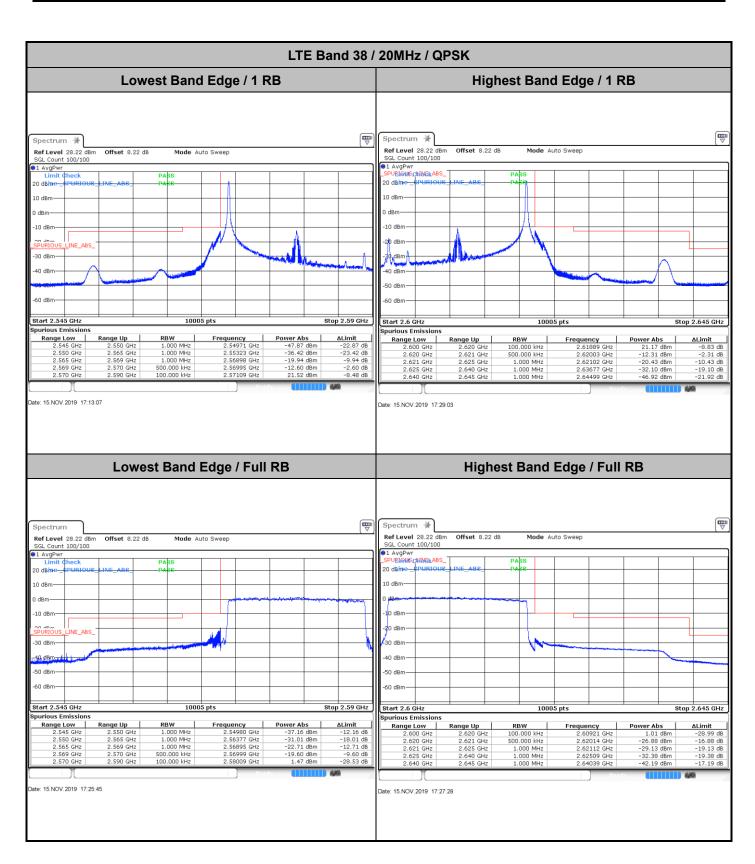
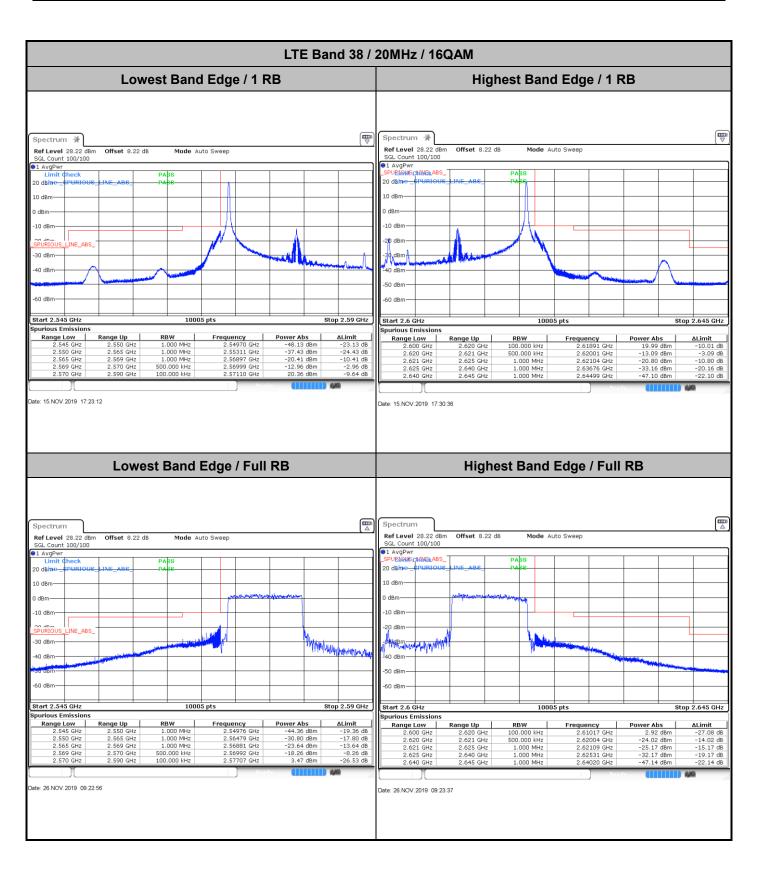


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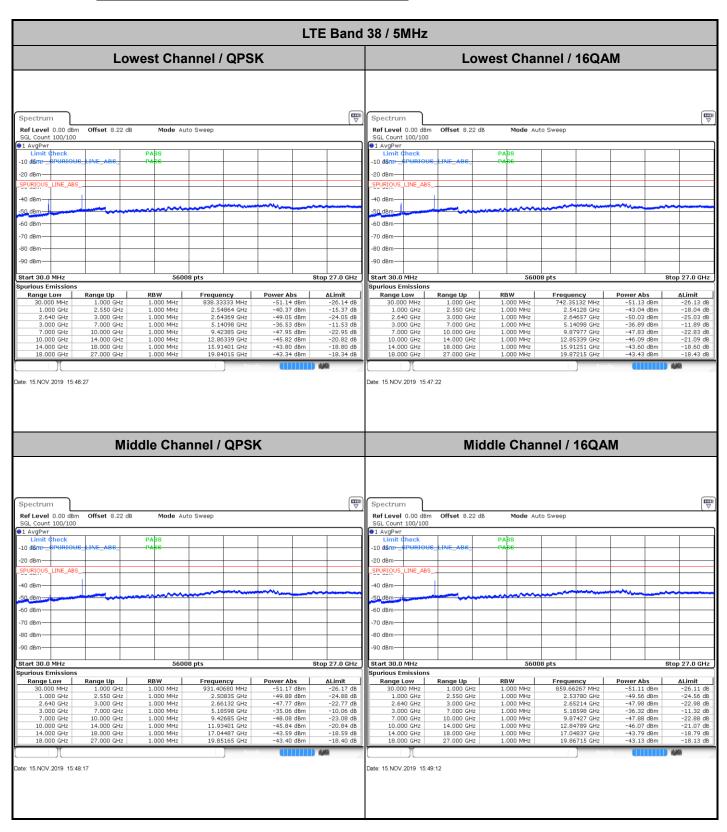


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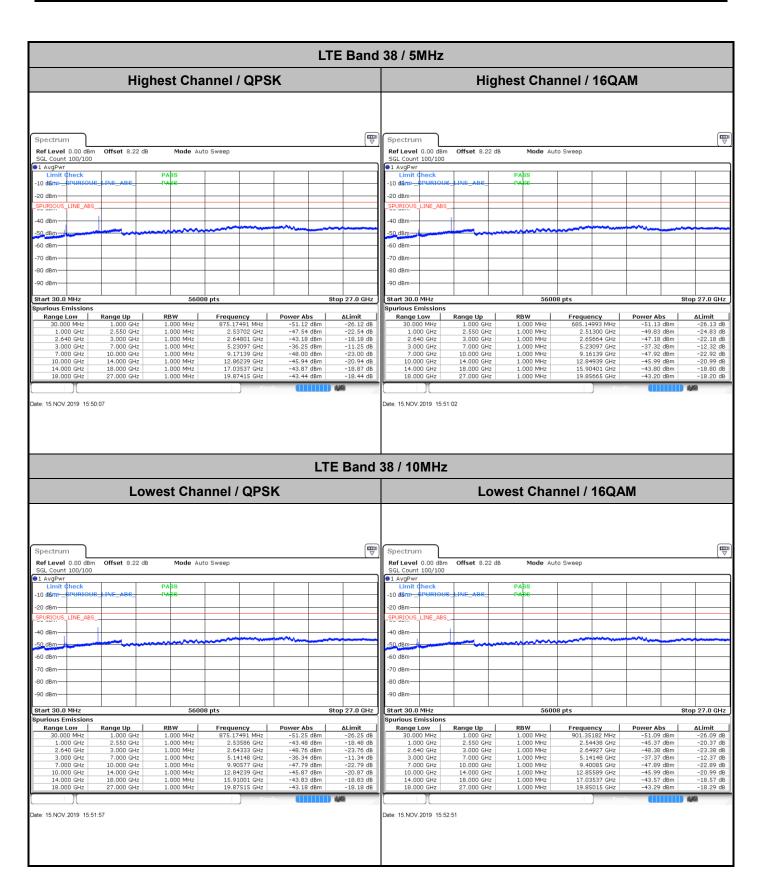
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Conducted Spurious Emission



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LTE Band 38 / 10MHz Middle Channel / QPSK Middle Channel / 16QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep GL Count 100/100 GL Count 100/100 ●1 AvgPwr 20 dBm -20 dBm 50 dBm -60 dBm -60 dBm 70 dBn 80 dBm -80 dBm 90 dBm-90 dBm-Start 30.0 MH; 560 Stop 27.0 GHz Start 30.0 MHz 56008 Stop 27.0 GHz rious Emission Spurious Emissions Power Abs
-51.44 dBm
-50.35 dBm
-47.28 dBm
-36.00 dBm
-48.02 dBm
-45.98 dBm
-43.84 dBm
-43.42 dBm 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 884.87006 MHz 2.50525 GHz 2.65592 GHz 5.18148 GHz 9.89127 GHz Frequency 934.31534 MHz 2.54671 GHz 2.64765 GHz Range Low 30,000 MH Range Up Power Abs -51.22 dBn Range Low 30,000 MH; ∆Limit -26.44 ΔLimit
-26.44 dB
-25.35 dB
-22.28 dB
-11.00 dB
-23.02 dB
-20.98 dB
-18.84 dB
-18.42 dB -51.22 dBm -46.44 dBm -47.64 dBm -34.73 dBm -47.89 dBm -45.98 dBm 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 1.000 MHz 1.000 GHz 2.550 GHz 3.000 GHz 2.640 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz .000 GHz 10.000 GHz 12.83890 GHz 17.02987 GHz 18.000 GHz 27.000 GHz .000 MHz 15.90251 GHz 19.87565 GHz 18.000 GHz ate: 15.NOV.2019 15:53:46 ate: 15.NOV.2019 15:54:41 **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 GL Count 100/100 1 AvgPwr 1 imit Check 1 AvgPwr 20 dBm -20 dBm SPURIOU 40 dBm 40 dBm 50 dBm 60 dBm -60 dBm 70 dBm -70 dBm 80 dBm -80 dBm 90 dBm -90 dBm Stop 27.0 GHz Start 30.0 MHz Stop 27.0 GHz Start 30.0 MHz 56008 pts 56008 pts rious Emission Spurious Emissions -51.07 dBm -48.73 dBm -45.91 dBm -35.34 dBm -48.03 dBm -45.77 dBm -43.75 dBm -43.20 dBm Frequency
674.00050 MHz
2.53780 GHz
2.66006 GHz
5.22147 GHz
9.86327 GHz
12.42495 GHz
15.91101 GHz
19.85515 GHz Range Low ange Up 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz Power Abs
-51.33 dBm
-48.40 dBm
-46.47 dBm
-36.77 dBm
-47.78 dBm
-46.01 dBm
-43.69 dBm
-43.00 dBm Range Low 30.000 MHz 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz ite: 15.NOV.2019 15:55:36 ate: 15.NOV.2019 15:56:31

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LTE Band 38 / 15MHz **Lowest Channel / QPSK Lowest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep GL Count 100/100 SGL Count 100/100 ●1 AvgPwr 10 **dS**m -10 **dS**m 20 dBm -20 dBm 50.dBm 50 dBm -60 dBm -60 dBm 70 dBn 80 dBm -80 dBm 90 dBm-90 dBm-Start 30.0 MH; 560 Stop 27.0 GHz Start 30.0 MHz 56008 Stop 27.0 GHz rious Emission Spurious Emissions 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz -51.08 dBm -51.08 dBm -38.55 dBm -48.20 dBm -37.02 dBm -47.87 dBm -45.99 dBm -43.77 dBm -43.25 dBm Frequency 896.01949 MHz 2.54438 GHz 2.64423 GHz Range Low 30,000 MH Range Up Power Abs -51.27 dBn Range Low 30,000 MH; ∆Limit △Limit

-26.27 dB

-11.85 dB

-23.36 dB

-11.22 dB

-22.67 dB

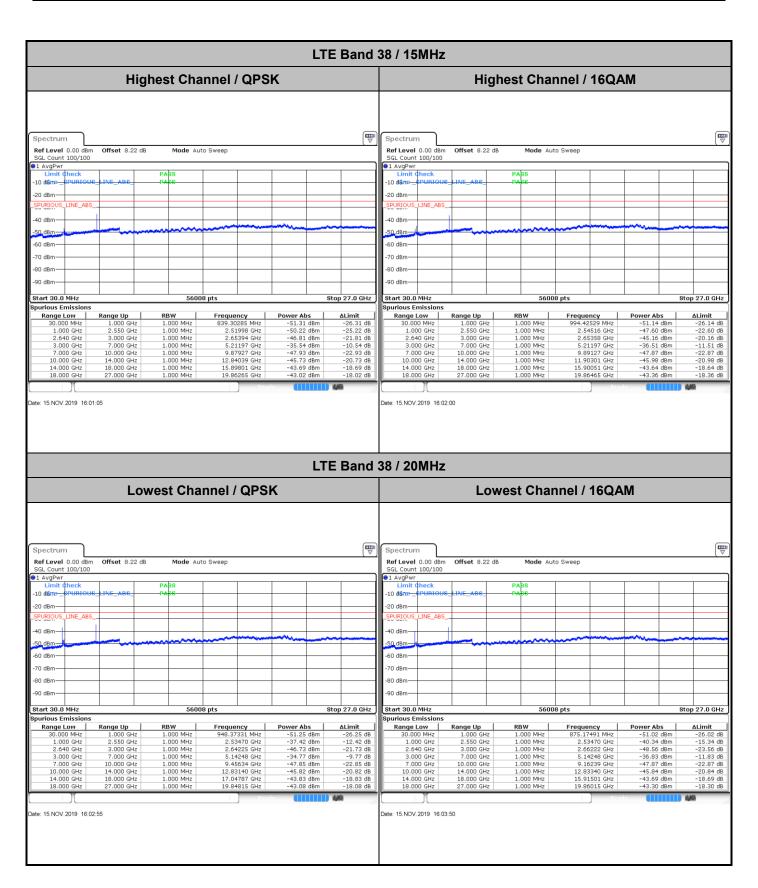
-20.67 dB

-18.66 dB

-18.26 dB ΔLimit
-26.08 dB
-13.55 dB
-23.20 dB
-12.02 dB
-22.87 dB
-20.99 dB
-18.77 dB
-18.25 dB -51.27 dBm -36.85 dBm -48.36 dBm -36.22 dBm -47.67 dBm -45.67 dBm 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 1.000 MHz 1.000 GHz 2.550 GHz 3.000 GHz 2.54438 GHz 2.64351 GHz 2.640 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 5.14198 GHz 9.88927 GHz 12.85689 GHz 17.04637 GHz 7.000 GHz 10.000 GHz 14.000 GHz .000 GHz 5.14198 GHz 9.39235 GHz 10.000 GHz 18.000 GHz 27.000 GHz .000 MHz 15.89101 GHz 19.85315 GHz 18.000 GHz ate: 15.NOV.2019 15:57:26 ate: 15.NOV.2019 15:58:20 Middle Channel / QPSK Middle Channel / 16QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 GL Count 100/100 1 AvgPwr 1 imit Check 1 AvgPwr 20 dBm -20 dBm SPURIOU 40 dBm 40 dBm 50 dBm -60 dBm -60 dBm 70 dBm -70 dBm 80 dBm -80 dBm 90 dBm -90 dBm Stop 27.0 GHz Start 30.0 MHz Stop 27.0 GHz Start 30.0 MHz 56008 pts 56008 pts rious Emission: Spurious Emissions -51.12 dBm -50.84 dBm -47.13 dBm -34.64 dBm -48.07 dBm -45.93 dBm -43.63 dBm -43.28 dBm Range Low ange Up 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz Range Low 30.000 MHz 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz ite: 15.NOV.2019 15:59:15 ate: 15.NOV.2019 16:00:10

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LTE Band 38 / 20MHz Middle Channel / QPSK Middle Channel / 16QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep GL Count 100/100 GL Count 100/100 ●1 AvgPwr 20 dBm -20 dBm 50. dBm -60 dBm -60 dBm 70 dBn 80 dBm -80 dBm 90 dBm-90 dBm-Start 30.0 MH; 560 Stop 27.0 GHz Start 30.0 MHz 56008 Stop 27.0 GHz rious Emission Spurious Emissions Power Abs
-50.96 dBm
-41.19 dBm
-47.04 dBm
-34.99 dBm
-47.96 dBm
-45.63 dBm
-43.61 dBm
-43.40 dBm ΔLimit
-25.96 dB
-16.19 dB
-22.04 dB
-9.99 dB
-22.96 dB
-20.63 dB
-18.61 dB
-18.40 dB Power Abs
-51.21 dBm
-42.28 dBm
-46.99 dBm
-34.76 dBm
-47.95 dBm
-45.92 dBm
-43.69 dBm ALimit
-26.21 dB
-17.28 dB
-21.99 dB
-9.76 dB
-22.95 dB
-20.92 dB
-18.69 dB
-18.22 dB 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 942.07146 MHz 2.54981 GHz 2.65718 GHz 5.17248 GHz 9.15739 GHz Frequency 895.04998 MHz 2.54981 GHz 2.65754 GHz Range Low 30,000 MH Range Up Range Low 30,000 MH; 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 1.000 MHz 1.000 GHz 2.550 GHz 3.000 GHz 2.640 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 2.65754 GHZ 5.17248 GHZ 9.89927 GHZ 12.36745 GHZ 15.94051 GHZ 19.85065 GHZ 7.000 GHz 10.000 GHz 14.000 GHz .000 GHz .000 MH 10.000 GHz 18.000 GHz 27.000 GHz .000 MHz 18.000 GHz ate: 15.NOV.2019 16:04:45 ate: 15.NOV.2019 16:05:40 **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 GL Count 100/100 1 AvgPwr 1 imit Check 1 AvgPwr 20 dBm -20 dBm SPURIOU 40 dBm 40 dBm 50 dBm -60 dBm -60 dBm 70 dBm -70 dBm 80 dBm -80 dBm 90 dBm -90 dBm Stop 27.0 GHz Start 30.0 MHz Stop 27.0 GHz Start 30.0 MHz 56008 pts 56008 pts rious Emission Spurious Emissions -51.20 dBm -46.14 dBm -47.32 dBm -35.19 dBm -48.08 dBm -45.76 dBm -43.72 dBm -43.18 dBm 897.47376 MHz 2.53160 GHz 2.54531 GHz 5.20247 GHz 9.87777 GHz 11.94351 GHz 17.04587 GHz 19.87365 GHz Range Low ange Up 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz Range Low 30.000 MHz -26.20 dB -21.14 dB -22.32 dB -10.19 dB -23.08 dB -20.76 dB -18.72 dB -18.18 dB 931.40680 MHz 2.54709 GHz 2.65664 GHz 5.20247 GHz 9.47784 GHz 11.91751 GHz 15.90301 GHz 19.87765 GHz 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz ite: 15.NOV.2019 16:06:35 ate: 15.NOV.2019 16:07:30

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Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)		BW 10MHz	Note 2.
	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0041	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0007	PASS
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0033	

Note:

- 1. Normal Voltage =3.9 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.2 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-60.49	-13	-47.49	-67.46	1.58	10.70	Н
	2496	-54.38	-13	-41.38	-62.63	2.102	12.50	Н
	3330	-54.43	-13	-41.43	-63.32	2.856	13.90	Н
	4158	-57.95	-13	-44.95	-66.41	2.689	13.30	Н
	1664	-51.49	-13	-38.49	-58.46	1.58	10.70	V
	2496	-54.33	-13	-41.33	-62.58	2.10	12.50	V
	3330	-58.46	-13	-45.46	-67.35	2.86	13.90	V
	4158	-60.13	-13	-47.13	-68.59	2.69	13.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 7 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-46.96	-25	-21.96	-57.17	3.03	13.24	Н
	7580	-48.76	-25	-23.76	-58.21	3.56	13.01	Н
	10100	-47.94	-25	-22.94	-57.46	3.92	13.44	Н
	12630	-47.02	-25	-22.02	-56.94	4.44	14.36	Н
	5052	-46.22	-25	-21.22	-56.43	3.03	13.24	V
	7580	-45.22	-25	-20.22	-54.67	3.56	13.01	V
	10100	-49.86	-25	-24.86	-59.38	3.92	13.44	V
	12630	-46.06	-25	-21.06	-55.98	4.44	14.36	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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LTE Band 38 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Middle	5172	-47.42	-25	-22.42	-57.63	3.03	13.24	Н	
	7760	-47.38	-25	-22.38	-56.83	3.56	13.01	Н	
	10340	-49.95	-25	-24.95	-59.47	3.92	13.44	Н	
	12930	-43.84	-25	-18.84	-53.76	4.44	14.36	Н	
	5172	-46.96	-25	-21.96	-57.17	3.03	13.24	V	
	7760	-43.70	-25	-18.70	-53.15	3.56	13.01	V	
	10340	-50.31	-25	-25.31	-59.83	3.92	13.44	V	
	12930	-45.23	-25	-20.23	-55.15	4.44	14.36	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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