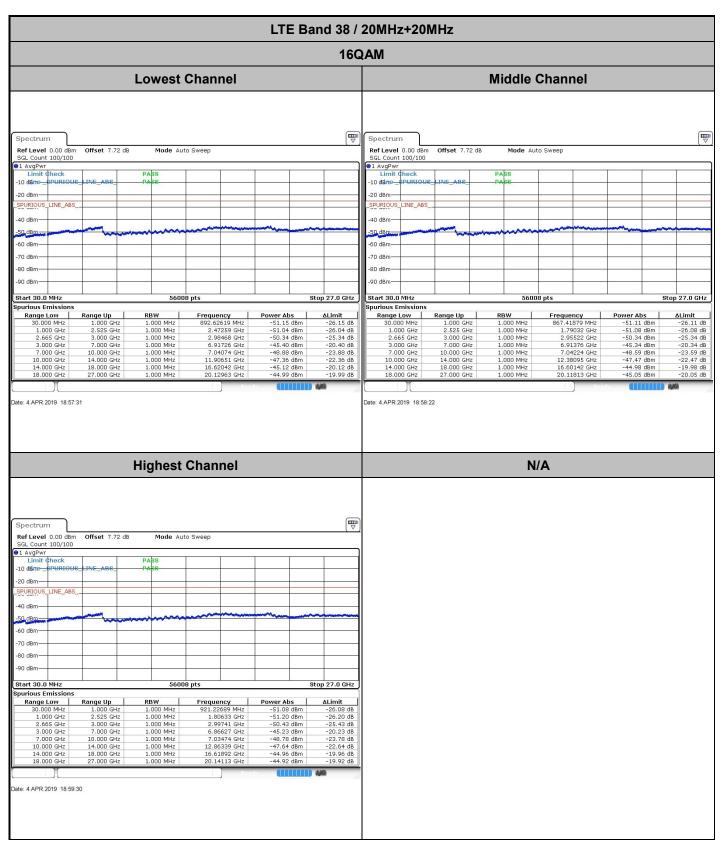


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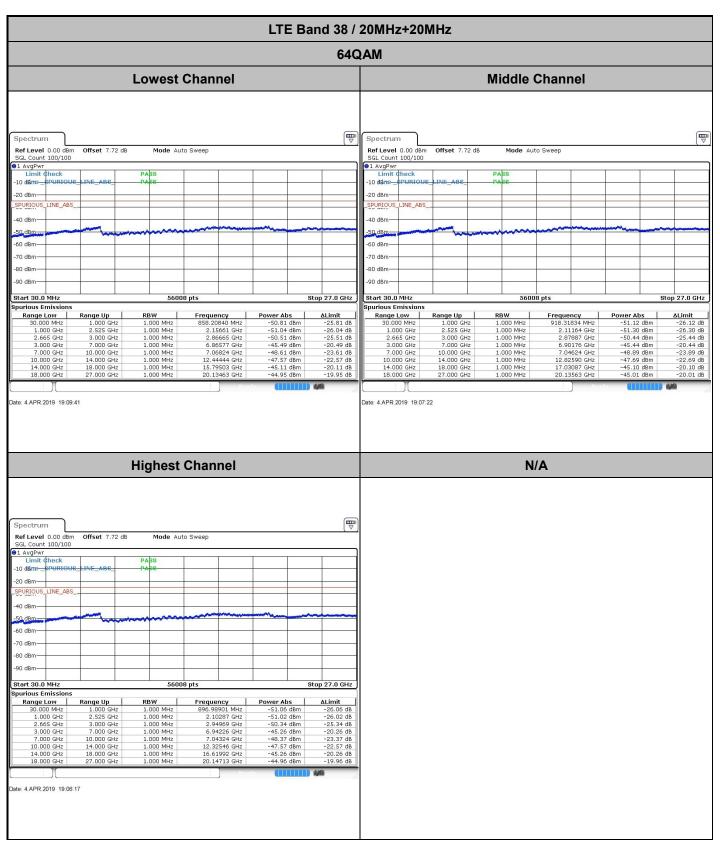
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Frequency Stability

Test (Conditions	LTE Band 2 (QPSK) / Middle Channel	Limit	
	BW 10MHz			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0020		
40	Normal Voltage	0.0018		
30	Normal Voltage	0.0003		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0028		
0	Normal Voltage	0.0007		
-10	Normal Voltage	0.0003	PASS	
-20	Normal Voltage	0.0008		
-30	Normal Voltage	0.0012		
20	Maximum Voltage	0.0001		
20	Normal Voltage	0.0000		
20	Battery End Point	0.0018		

Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test (Conditions	LTE Band 4 (QPSK) / Middle Channel	Limit
		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0020	
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

- 1. Normal Voltage =3.85V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test (Conditions	LTE Band 5 (QPSK) / Middle Channel	Limit
_		BW 10MHz	2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0020	
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note: Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35 V.

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Test (Conditions	LTE Band 7 (QPSK) / Middle Channel	Limit
		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0020	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test 0	Conditions	LTE Band 38 (QPSK) / Middle Channel	Limit
_		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0020	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35 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

Pre-scanned in three orthogonal panels, X, Y, Z for WWAN Bottom / Top Antenna which can't transmit simultaneously. The worse cases were recorded in this report.

Report No.: FG931204B

	LTE Band 2 / 5MHz / QPSK for Bottom Antenna										
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)			
	3755.68	-61.09	-13	-48.09	-73.35	2.641	14.90	Н			
	5634	-57.20	-13	-44.20	-69.06	2.94	14.80	Н			
Middle	7512	-52.37	-13	-39.37	-62.14	3.39	13.16	Н			
Middle	3756	-61.08	-13	-48.08	-73.34	2.64	14.90	V			
	5633.52	-59.38	-13	-46.38	-71.24	2.94	14.80	V			
	7512	-52.07	-13	-39.07	-61.84	3.39	13.16	V			

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

	LTE Band 4 / 20MHz / QPSK for Bottom Antenna										
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)			
	3447	-59.30	-13	-46.30	-70.04	2.604	13.34	Н			
	5170.77	-56.18	-13	-43.18	-66.69	3.011	13.52	Н			
Middle	6894	-55.16	-13	-42.16	-65.36	3.271	13.47	Н			
Middle	3447	-60.63	-13	-47.63	-71.37	2.604	13.34	V			
	5172	-57.55	-13	-44.55	-68.06	3.011	13.52	V			
	6894	-54.41	-13	-41.41	-64.61	3.271	13.47	V			

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

	LTE Band 5 / 5MHz / QPSK for Bottom Antenna										
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)			
	1668	-66.86	-13	-53.86	-73.83	1.58	10.70	Н			
	2502	-61.34	-13	-48.34	-69.59	2.102	12.50	Н			
Middle	3336	-65.42	-13	-52.42	-74.31	2.856	13.90	Н			
Middle	1668	-63.06	-13	-50.06	-70.03	1.58	10.70	V			
	2606	-64.04	-13	-51.04	-72.29	2.10	12.50	V			
	3336	-65.12	-13	-52.12	-74.01	2.86	13.90	V			

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

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	LTE Band 7 / 20MHz / QPSK for Bottom Antenna										
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)			
	5050	-59.67	-25	-34.67	-69.88	3.03	13.24	Н			
	7580	-49.80	-25	-24.80	-59.25	3.56	13.01	Н			
Middle	10107	-56.02	-25	-31.02	-65.54	3.92	13.44	Н			
Middle	5050	-60.98	-25	-35.98	-71.19	3.03	13.24	V			
	7580	-48.40	-25	-23.40	-57.85	3.56	13.01	V			
	10107	-55.97	-25	-30.97	-65.49	3.92	13.44	V			

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

	LTE Band 38 / 15MHz / QPSK for Bottom Antenna											
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)				
	5176	-61.04	-25	-36.04	-71.25	3.03	13.24	Н				
	7764	-48.73	-25	-23.73	-58.18	3.56	13.01	Н				
Middle	10350	-58.85	-25	-33.85	-68.37	3.92	13.44	Н				
Middle	5176	-57.95	-25	-32.95	-68.16	3.03	13.24	V				
	7764	-50.56	-25	-25.56	-60.01	3.56	13.01	V				
	10350	-58.88	-25	-33.88	-68.40	3.92	13.44	V				

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

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For CA:

	LTE Band 7C_CA / 20M+20M / QPSK for Bottom Antenna										
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)			
	5030	-62.49	-25	-37.49	-72.70	3.03	13.24	Н			
	7550	-48.27	-25	-23.27	-57.72	3.56	13.01	Н			
Middle	10062	-56.96	-25	-31.96	-66.48	3.92	13.44	Н			
Middle	5030	-62.73	-25	-37.73	-72.94	3.03	13.24	V			
	7550	-51.78	-25	-26.78	-61.23	3.56	13.01	V			
	10062	-57.11	-25	-32.11	-66.63	3.92	13.44	V			

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

	LTE Band 38C_CA / 20M+20M / QPSK for Bottom Antenna										
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)			
	5150	-60.28	-25	-35.28	-70.49	3.03	13.24	Н			
	7728.27	-53.21	-25	-28.21	-62.66	3.56	13.01	Н			
Middle	10305	-57.78	-25	-32.78	-67.30	3.92	13.44	Н			
Middle	5150	-62.34	-25	-37.34	-72.55	3.03	13.24	V			
	7730	-51.12	-25	-26.12	-60.57	3.56	13.01	V			
	10305	-58.35	-25	-33.35	-67.87	3.92	13.44	V			

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

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