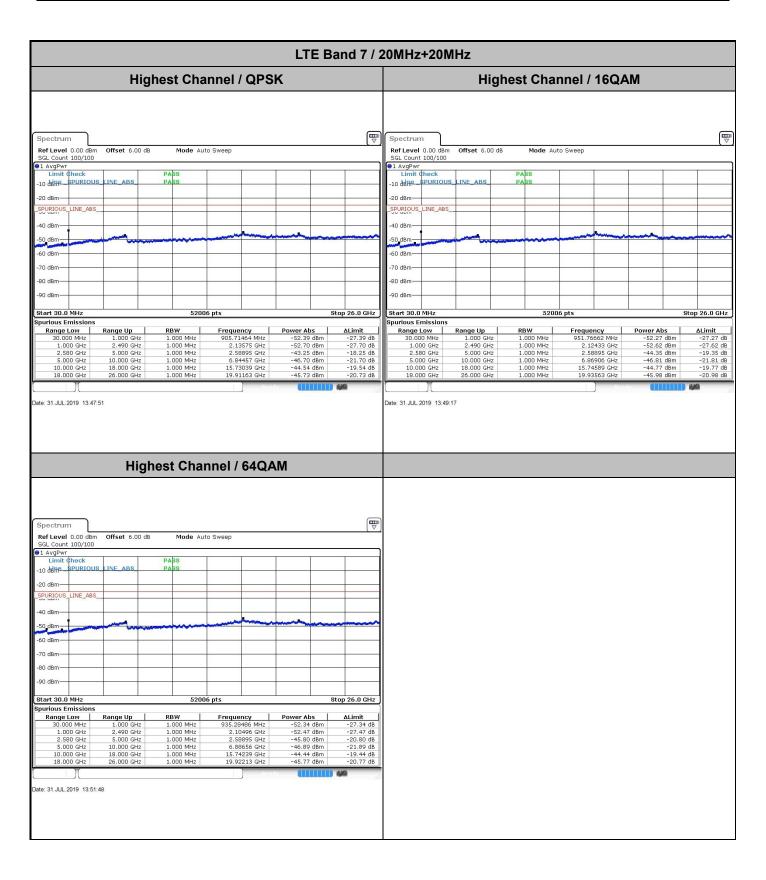
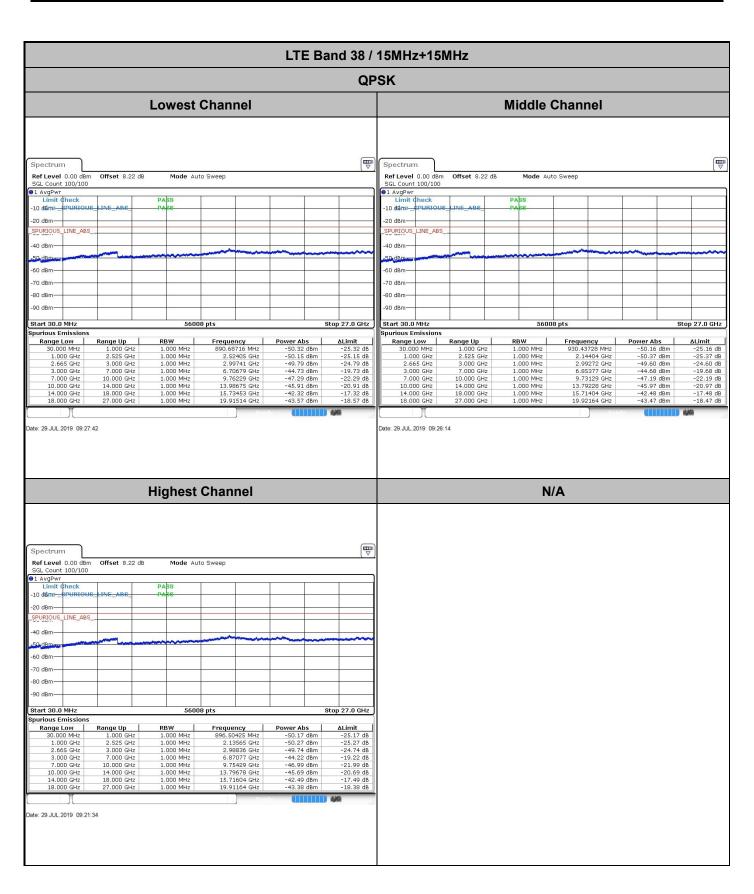


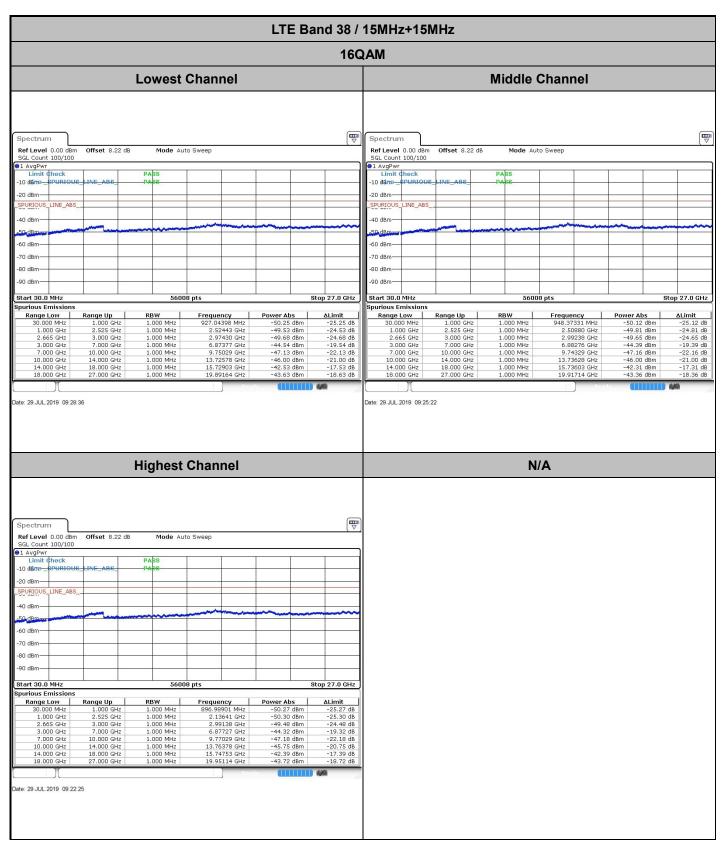
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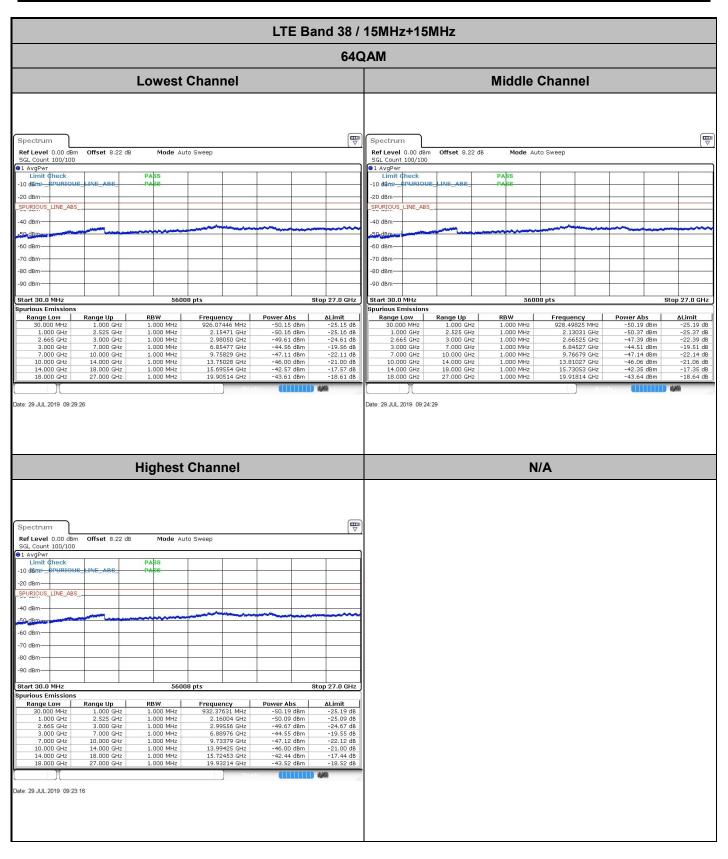
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# Frequency Stability

Test (	Conditions	LTE Band 2 (QPSK) / Middle Channel	Limit
_ ,		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0003	
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0052	PASS
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.4 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
T	Veltere	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0001	
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0025	PASS
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.4 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
_ ,	V 16	BW 10MHz	2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0003	
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0052	PASS
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0057	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.4 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	0.0026	
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	PASS
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test (	Conditions	LTE Band 38 (QPSK) / Middle Channel	Limit
T	Valtana	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0023	
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0017	PASS
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.4 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 2 / 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)			
	3742	-56.81	-13	-43.81	-69.07	2.641	14.90	Н			
	5613	-49.25	-13	-36.25	-61.11	2.94	14.80	Н			
Middle	7488	-49.43	-13	-36.43	-59.20	3.39	13.16	Н			
Middle	3741	-56.70	-13	-43.70	-68.96	2.64	14.90	V			
	5613	-53.42	-13	-40.42	-65.28	2.94	14.80	V			
	7488	-49.41	-13	-36.41	-59.18	3.39	13.16	V			

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

	LTE Band 4 / 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)			
	3447	-53.36	-13	-40.36	-64.10	2.604	13.34	Н			
	5172	-50.07	-13	-37.07	-60.58	3.011	13.52	Н			
N AS al all a	6894	-51.69	-13	-38.69	-61.89	3.271	13.47	Н			
Middle	3447	-52.99	-13	-39.99	-63.73	2.604	13.34	V			
	5170	-49.76	-13	-36.76	-60.27	3.011	13.52	V			
	6894	-48.84	-13	-35.84	-59.04	3.271	13.47	V			

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

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	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)			
	1664	-59.70	-13	-46.70	-66.67	1.58	10.70	Н			
	2496	-53.00	-13	-40.00	-61.25	2.102	12.50	Н			
Middle	3330	-63.82	-13	-50.82	-72.71	2.856	13.90	Н			
Middle	1664	-56.40	-13	-43.40	-63.37	1.58	10.70	V			
	2496	-56.38	-13	-43.38	-64.63	2.10	12.50	V			
	3330	-63.48	-13	-50.48	-72.37	2.86	13.90	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)			
	5052	-60.67	-25	-35.67	-70.88	3.03	13.24	Н			
	7580	-52.65	-25	-27.65	-62.10	3.56	13.01	Н			
N AC all all a	10100	-53.95	-25	-28.95	-63.47	3.92	13.44	Н			
Middle	5052	-62.32	-25	-37.32	-72.53	3.03	13.24	V			
	7580	-53.89	-25	-28.89	-63.34	3.56	13.01	V			
	10100	-54.65	-25	-29.65	-64.17	3.92	13.44	V			

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

	LTE Band 38 / 20MHz / 16QAM										
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)			
	5172	-58.33	-25	-33.33	-68.54	3.03	13.24	Н			
	7760	-49.30	-25	-24.30	-58.75	3.56	13.01	Н			
	10344	-55.58	-25	-30.58	-65.10	3.92	13.44	Н			
N 40: -1 -11 -	12930	-52.49	-25	-27.49	-62.41	4.44	14.36	Н			
Middle	5172	-61.29	-25	-36.29	-71.50	3.03	13.24	V			
	7756	-54.96	-25	-29.96	-64.41	3.56	13.01	V			
	10344	-50.30	-25	-25.30	-59.82	3.92	13.44	V			
	12930	-55.18	-25	-30.18	-65.10	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 7C_CA / 20M+20M / 16QAM										
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)			
	5032	-63.42	-25	-38.42	-73.63	3.03	13.24	Н			
	7548	-57.12	-25	-32.12	-66.57	3.56	13.01	Н			
Middle	10060	-56.60	-25	-31.60	-66.12	3.92	13.44	Н			
Middle	5032	-65.57	-25	-40.57	-75.78	3.03	13.24	V			
	7548	-57.95	-25	-32.95	-67.40	3.56	13.01	V			
	10060	-58.44	-25	-33.44	-67.96	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										
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)			
	5152	-65.11	-25	-40.11	-75.32	3.03	13.24	Н			
	7728	-60.33	-25	-35.33	-69.78	3.56	13.01	Н			
N 40: -1 -11 -	10300	-57.55	-25	-32.55	-67.07	3.92	13.44	Н			
Middle	5152	-65.53	-25	-40.53	-75.74	3.03	13.24	V			
	7728	-58.93	-25	-33.93	-68.38	3.56	13.01	V			
	10300	-57.59	-25	-32.59	-67.11	3.92	13.44	V			

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

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