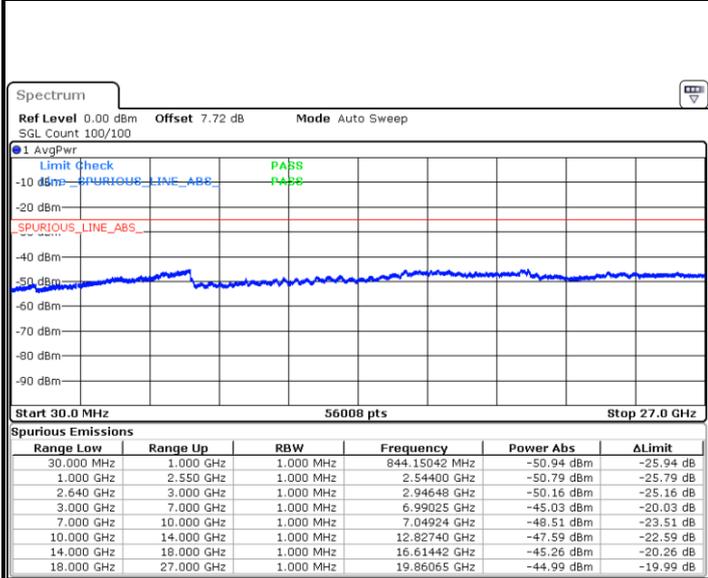




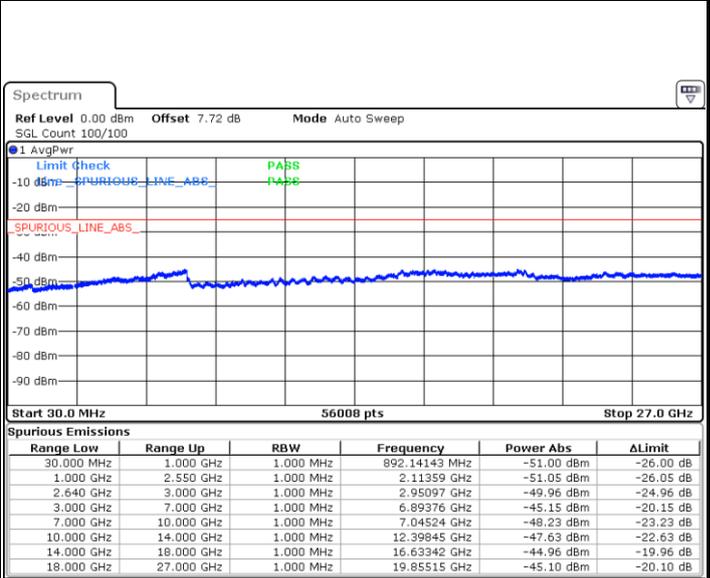
LTE Band 38 / 5MHz

Lowest Channel / 64QAM



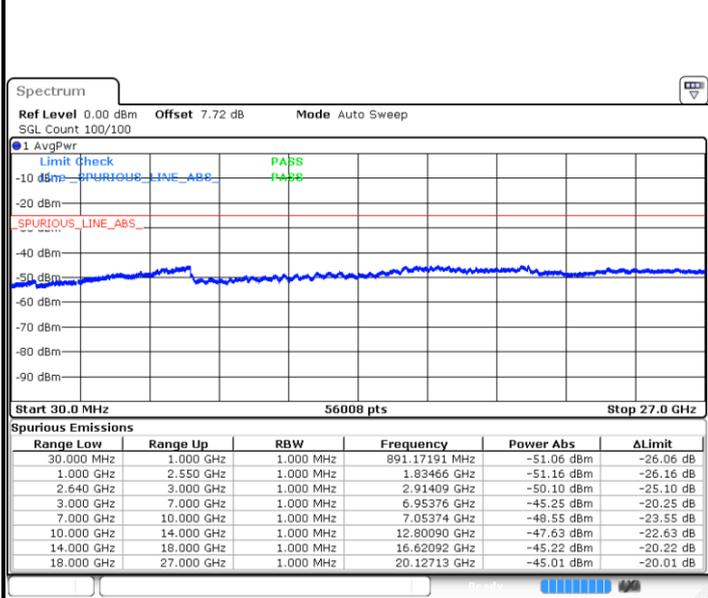
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Middle Channel / 64QAM



Date: 4 SEP.2019 22:47:27

Highest Channel / 64QAM



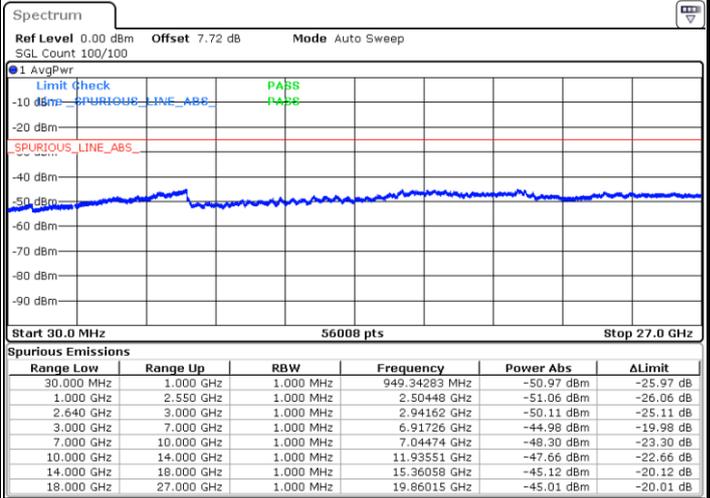
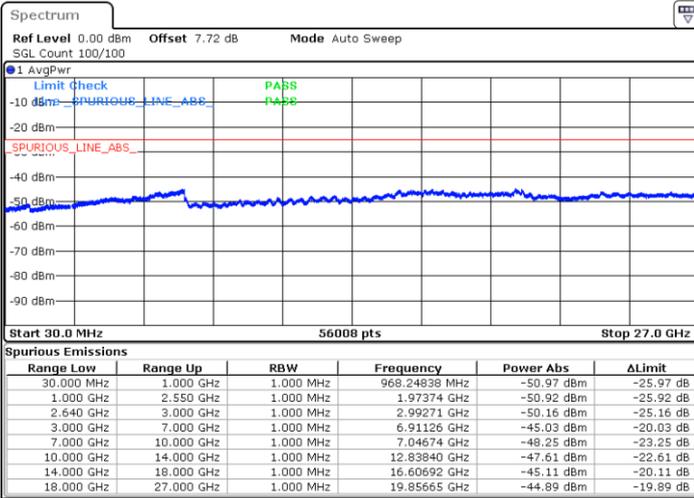
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LTE Band 38 / 10MHz

Lowest Channel / 64QAM

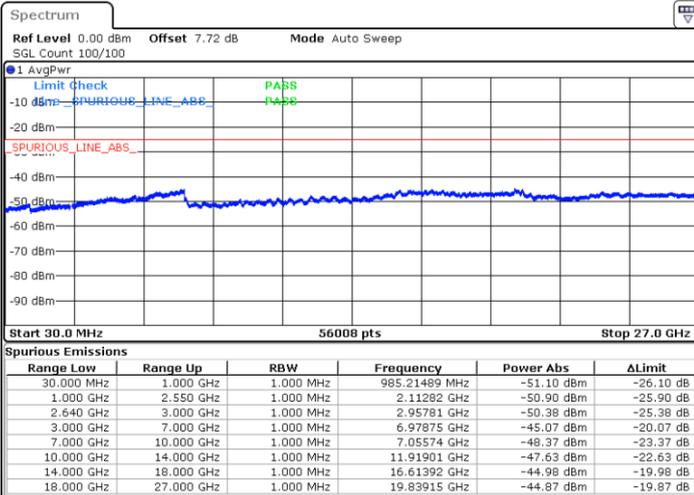
Middle Channel / 64QAM



Date: 4 SEP.2019 23:09:16

Date: 4 SEP.2019 23:11:57

Highest Channel / 64QAM



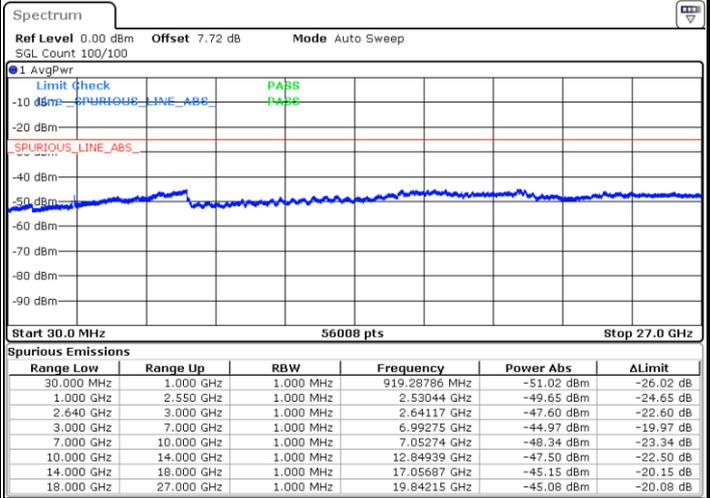
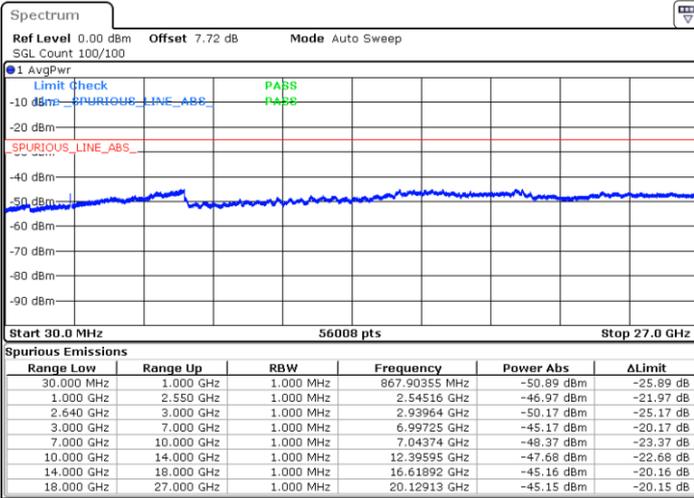
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LTE Band 38 / 15MHz

Lowest Channel / 64QAM

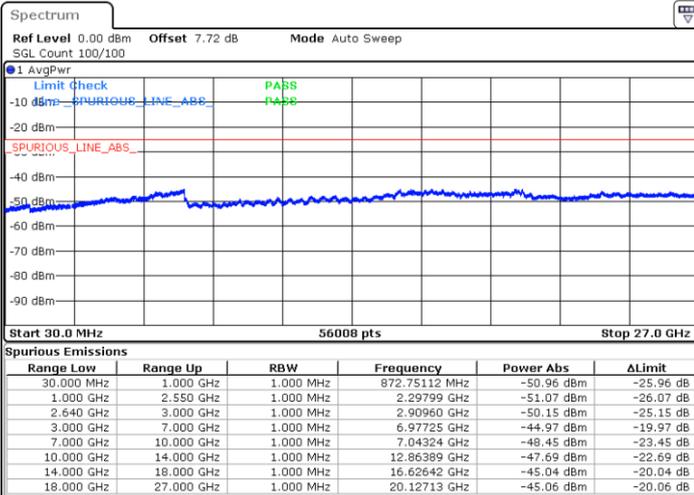
Middle Channel / 64QAM



Date: 4 SEP.2019 23:30:43

Date: 4 SEP.2019 23:33:24

Highest Channel / 64QAM



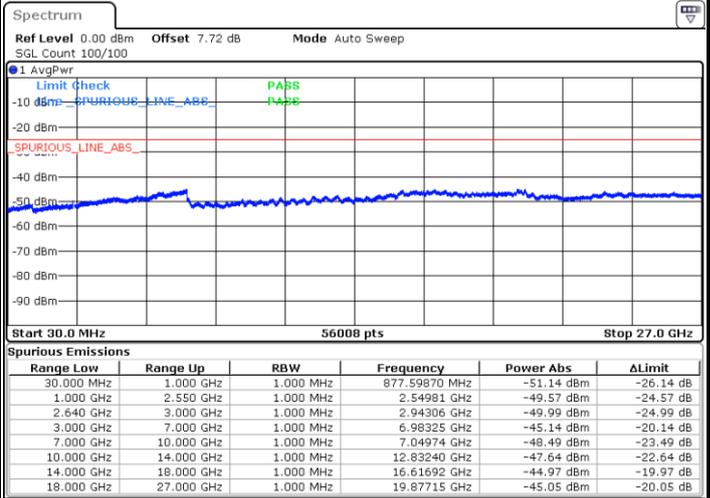
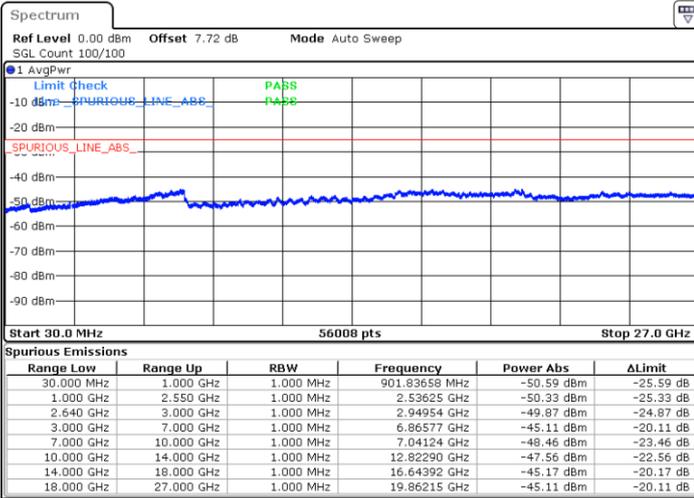
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LTE Band 38 / 20MHz

Lowest Channel / 64QAM

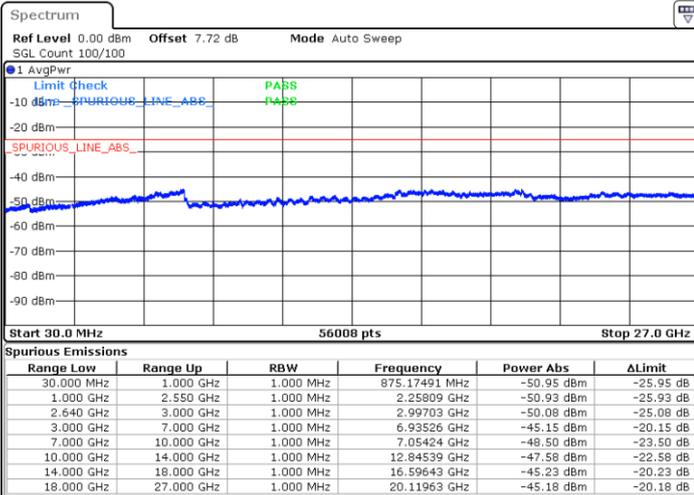
Middle Channel / 64QAM



Date: 4 SEP.2019 23:52:10

Date: 4 SEP.2019 23:54:51

Highest Channel / 64QAM



Date: 4 SEP.2019 23:57:32



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0051	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0056	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0057	
-10	Normal Voltage	0.0050	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0049	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## 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)
Middle	3741	-53.31	-13	-40.31	-65.57	2.641	14.90	H
	5613	-43.13	-13	-30.13	-54.99	2.94	14.80	H
	7488	-50.24	-13	-37.24	-60.01	3.39	13.16	H
	3741	-52.35	-13	-39.35	-64.61	2.64	14.90	V
	5613	-43.05	-13	-30.05	-54.91	2.94	14.80	V
	7488	-49.34	-13	-36.34	-59.11	3.39	13.16	V

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

LTE Band 4 / 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)
Middle	3447	-41.18	-13	-28.18	-51.92	2.604	13.34	H
	5172	-56.07	-13	-43.07	-66.58	3.011	13.52	H
	6900	-52.66	-13	-39.66	-62.86	3.271	13.47	H
	3447	-45.65	-13	-32.65	-56.39	2.604	13.34	V
	5172	-55.99	-13	-42.99	-66.50	3.011	13.52	V
	6900	-52.09	-13	-39.09	-62.29	3.271	13.47	V

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

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	-57.17	-13	-44.17	-64.14	1.58	10.70	H
	2496	-44.64	-13	-31.64	-52.89	2.102	12.50	H
	3330	-62.94	-13	-49.94	-71.83	2.856	13.90	H
	4158	-57.68	-13	-44.68	-66.14	2.689	13.30	H
	1664	-60.49	-13	-47.49	-67.46	1.58	10.70	V
	2496	-55.13	-13	-42.13	-63.38	2.10	12.50	V
	3330	-63.29	-13	-50.29	-72.18	2.86	13.90	V
	4158	-58.98	-13	-45.98	-67.44	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	-56.82	-25	-31.82	-67.03	3.03	13.24	H
	7580	-45.88	-25	-20.88	-55.33	3.56	13.01	H
	10100	-55.85	-25	-30.85	-65.37	3.92	13.44	H
	5052	-56.81	-25	-31.81	-67.02	3.03	13.24	V
	7580	-46.69	-25	-21.69	-56.14	3.56	13.01	V
	10100	-49.92	-25	-24.92	-59.44	3.92	13.44	V

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

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	-55.68	-25	-30.68	-65.89	3.03	13.24	H
	7760	-48.04	-25	-23.04	-57.49	3.56	13.01	H
	10340	-50.08	-25	-25.08	-59.60	3.92	13.44	H
	5172	-56.58	-25	-31.58	-66.79	3.03	13.24	V
	7760	-49.67	-25	-24.67	-59.12	3.56	13.01	V
	10340	-49.06	-25	-24.06	-58.58	3.92	13.44	V

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