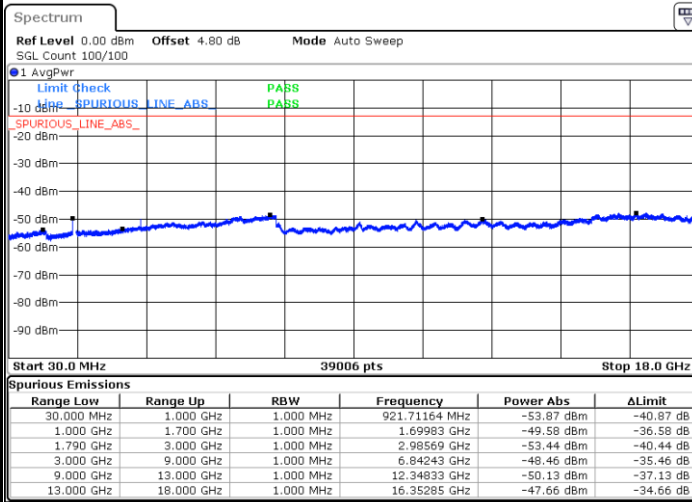




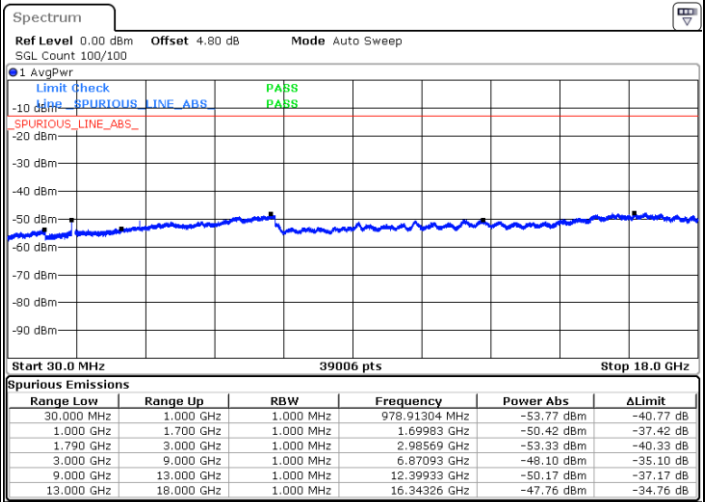
LTE Band 66 / 20MHz

Middle Channel / QPSK



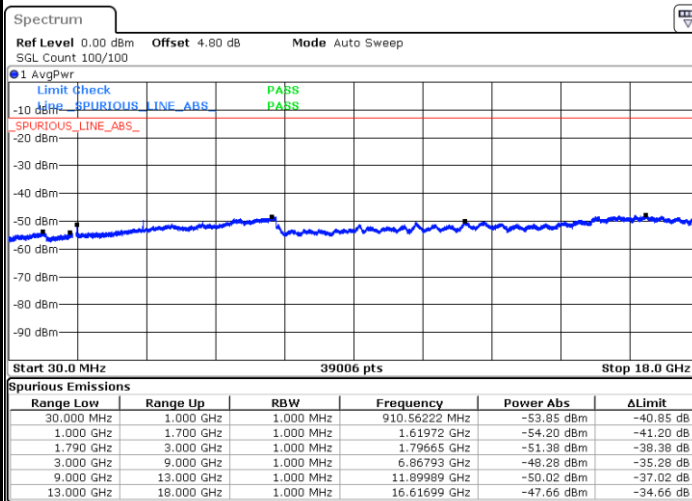
Date: 1.MAR.2018 06:18:42

Middle Channel / 16QAM



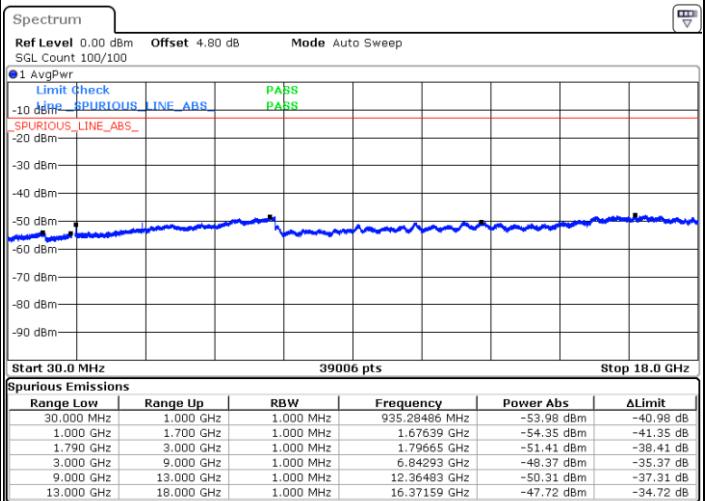
Date: 1.MAR.2018 06:18:03

Highest Channel / QPSK



Date: 1.MAR.2018 06:30:26

Highest Channel / 16QAM



Date: 1.MAR.2018 06:31:24

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0057	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0073	
-10	Normal Voltage	0.0058	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0085	
20	Normal Voltage	0.0069	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.8 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.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0046	

Note:

1. Normal Voltage =3.8 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.

Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 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.

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0077	PASS
40	Normal Voltage	0.0117	
30	Normal Voltage	0.0088	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0105	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0111	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0096	

Note:

1. Normal Voltage =3.8 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.

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 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.

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.8 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.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0								
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	1406	-62.81	-13	-49.81	-64.18	1.167	4.69	H
	2110	-48.10	-13	-35.10	-50.70	1.446	6.20	H
	2812	-63.64	-13	-50.64	-67.20	1.694	7.40	H
	1406	-66.50	-13	-53.50	-67.87	1.167	4.69	V
	2110	-61.86	-13	-48.86	-64.46	1.446	6.20	V
	2812	-64.23	-13	-51.23	-67.79	1.694	7.40	V

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

LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0								
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	1560	-56.47	-40	-16.47	-60.32	1.385	5.23	H
	2340	-62.38	-13	-49.38	-64.37	1.88	6.02	H
	3120	-63.23	-13	-50.23	-65.60	2.38	6.90	H
	1560	-61.23	-40	-21.23	-65.08	1.385	5.23	V
	2340	-59.52	-13	-46.52	-61.51	1.88	6.02	V
	3120	-63.43	-13	-50.43	-65.80	2.38	6.90	V

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

LTE Band 25 / 20MHz / QPSK / RB Size 1 Offset 0								
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	-61.52	-13	-48.52	-66.69	1.83	7.00	H
	5613	-55.83	-13	-42.83	-63.45	2.18	9.80	H
	7485	-53.27	-13	-40.27	-62.94	2.53	12.20	H
	3741	-62.09	-13	-49.09	-67.26	1.83	7.00	V
	5613	-59.38	-13	-46.38	-67.00	2.18	9.80	V
	7485	-54.06	-13	-41.06	-63.73	2.53	12.20	V

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



LTE Band 26 / 15MHz / QPSK / RB Size 1 Offset 0								
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	1660	-56.74	-13	-43.74	-58.65	1.14	5.20	H
	2490	-60.89	-13	-47.89	-63.52	1.12	5.90	H
	3318	-62.62	-13	-49.62	-65.83	1.34	6.70	H
	1660	-51.89	-13	-38.89	-53.80	1.14	5.20	V
	2490	-62.20	-13	-49.20	-64.83	1.12	5.90	V
	3318	-62.52	-13	-49.52	-65.73	1.34	6.70	V

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

LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0								
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	-39.66	-25	-14.66	-46.49	2.46	9.29	H
	7760	-38.81	-25	-13.81	-48.00	3.01	12.20	H
	10341	-42.19	-25	-17.19	-50.92	3.52	12.25	H
	12933	-34.36	-25	-9.36	-43.55	3.82	13.01	H
	15516	-50.06	-25	-25.06	-59.13	4.30	13.37	H
	5172	-42.24	-25	-17.24	-49.07	2.46	9.29	V
	7760	-45.24	-25	-20.24	-54.43	3.01	12.20	V
	10341	-47.72	-25	-22.72	-56.45	3.52	12.25	V
	12933	-38.11	-25	-13.11	-47.30	3.82	13.01	V
	15516	-51.85	-25	-26.85	-60.92	4.30	13.37	V

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

LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0								
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	3471	-63.20	-13	-50.20	-68.34	1.81	6.95	H
	5208	-59.22	-13	-46.22	-66.29	2.23	9.30	H
	6942	-56.78	-13	-43.78	-65.06	2.60	10.88	H
	3471	-63.87	-13	-50.87	-69.01	1.81	6.95	V
	5208	-60.08	-13	-47.08	-67.15	2.23	9.30	V
	6942	-57.68	-13	-44.68	-65.96	2.6	10.88	V

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