



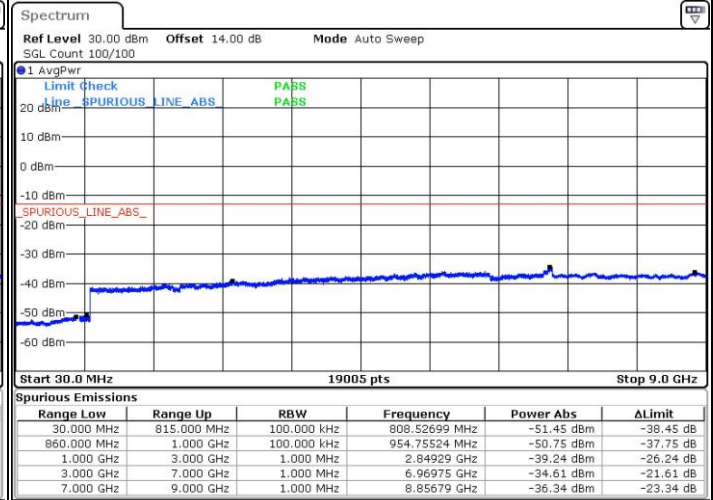
## LTE Band 5 / 5MHz

## Lowest Channel / QPSK



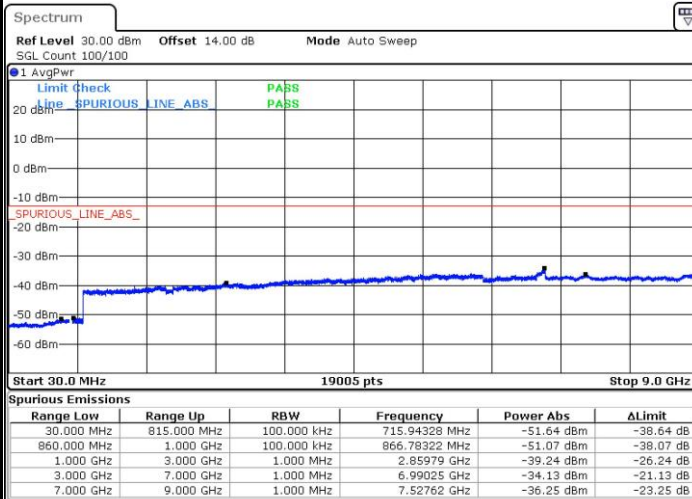
Date: 27.JUL.2017 19:48:16

## Lowest Channel / 16QAM



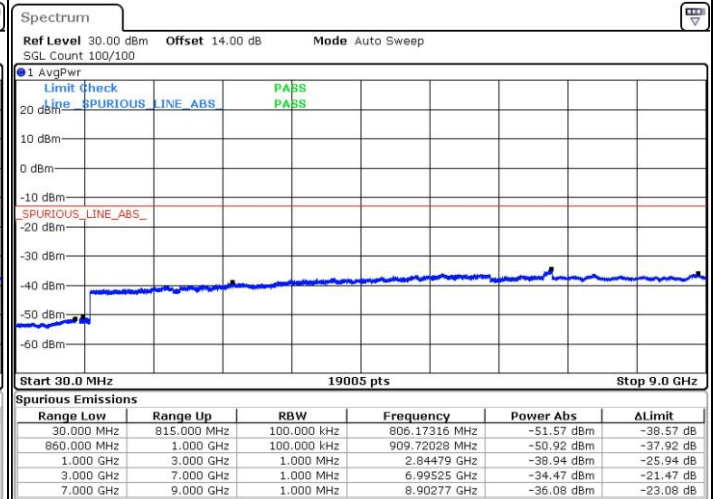
Date: 27.JUL.2017 19:49:12

## Middle Channel / QPSK



Date: 27.JUL.2017 19:50:51

## Middle Channel / 16QAM

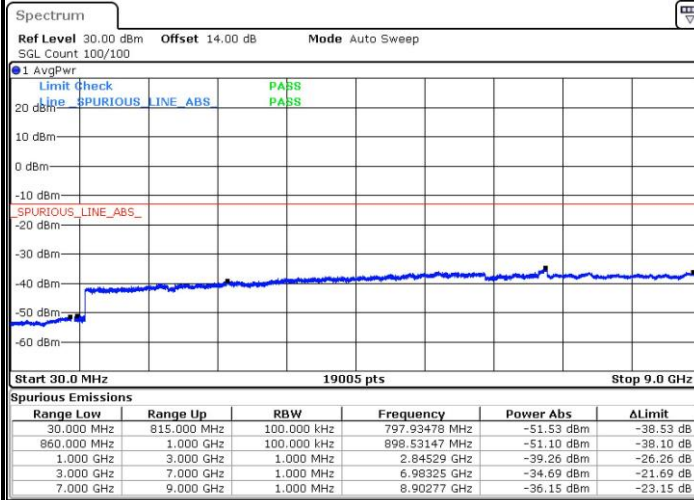


Date: 27.JUL.2017 19:51:47



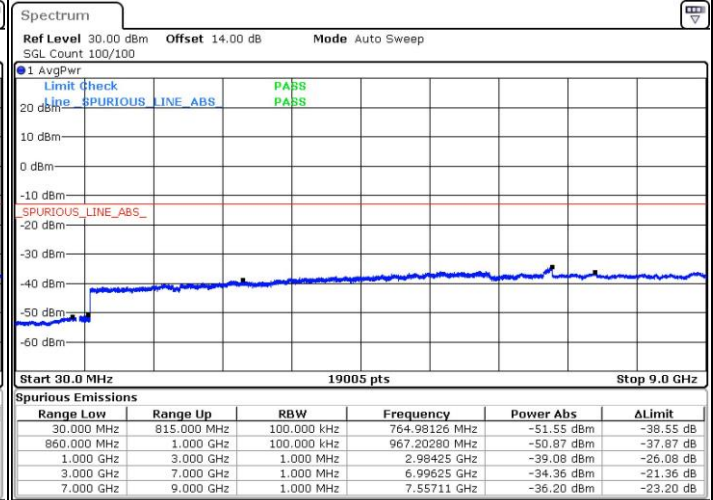
## LTE Band 5 / 5MHz

## Highest Channel / QPSK



Date: 27.JUL.2017 20:00:05

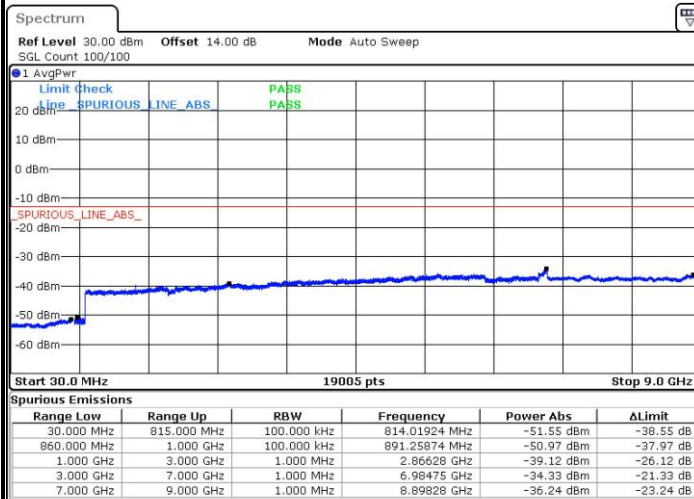
## Highest Channel / 16QAM



Date: 27.JUL.2017 20:01:02

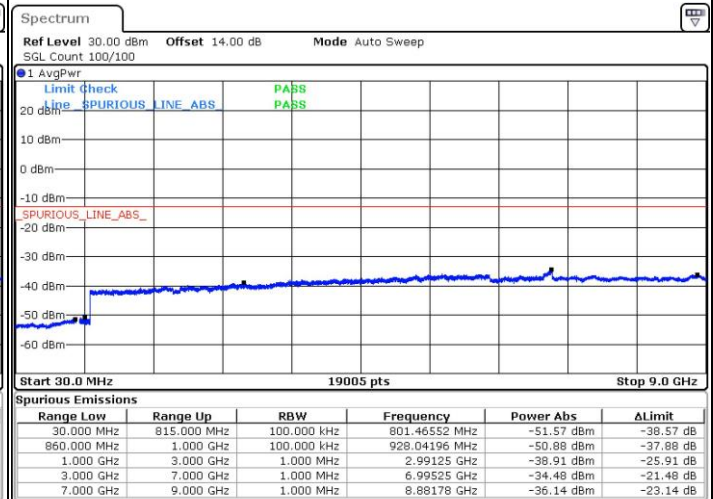
## LTE Band 5 / 10MHz

## Lowest Channel / QPSK



Date: 27.JUL.2017 20:09:19

## Lowest Channel / 16QAM



Date: 27.JUL.2017 20:10:16



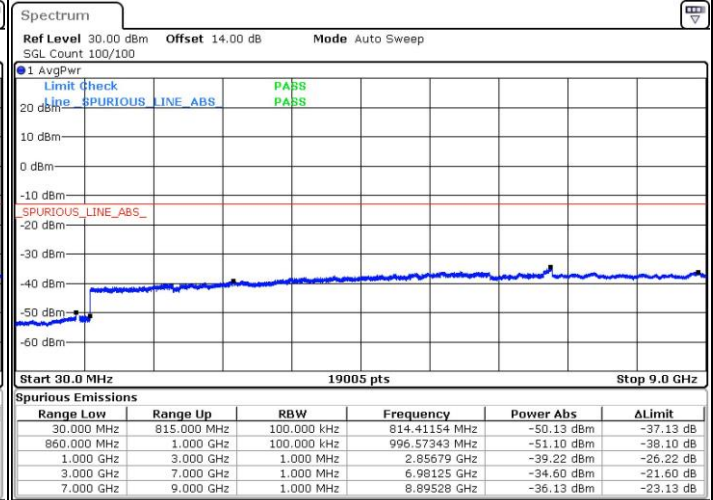
## LTE Band 5 / 10MHz

## Middle Channel / QPSK



Date: 27.JUL.2017 20:11:55

## Middle Channel / 16QAM



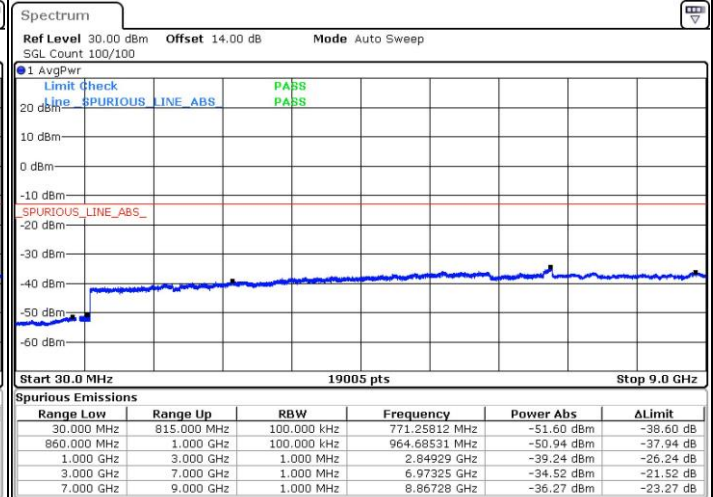
Date: 27.JUL.2017 20:12:51

## Highest Channel / QPSK



Date: 27.JUL.2017 20:21:09

## Highest Channel / 16QAM

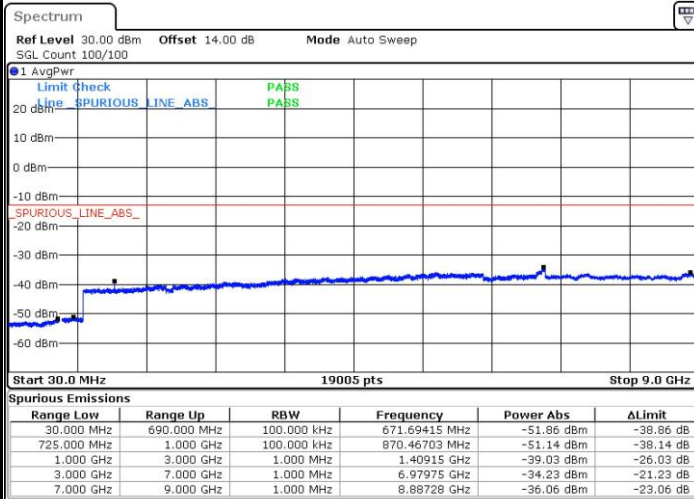


Date: 27.JUL.2017 20:22:06



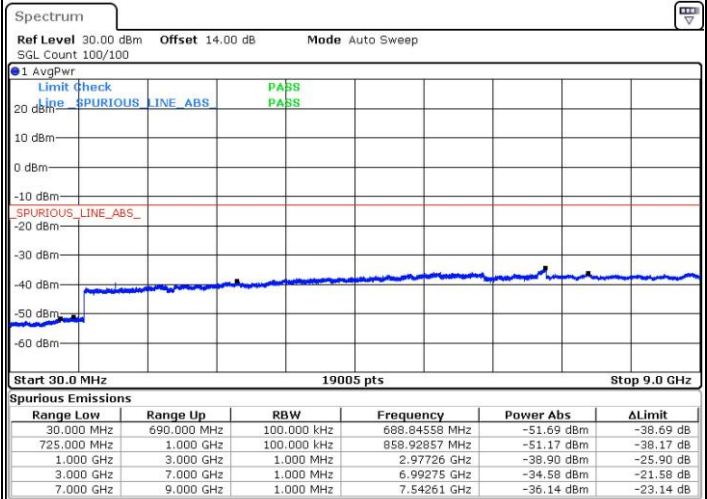
## LTE Band 17 / 5MHz

## Lowest Channel / QPSK



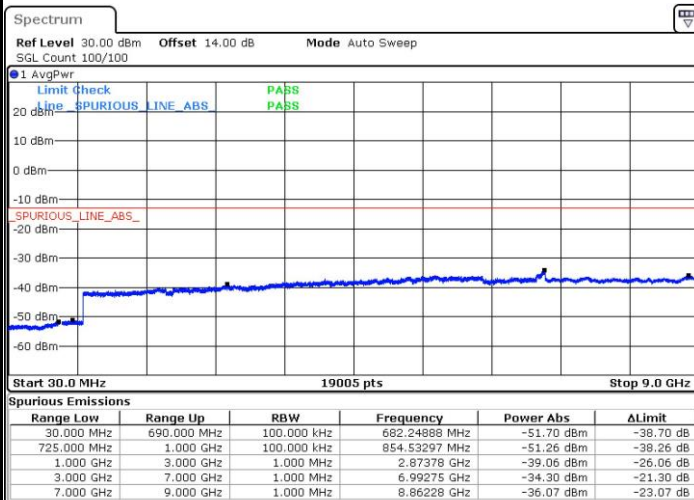
Date: 27.JUL.2017 20:56:40

## Lowest Channel / 16QAM



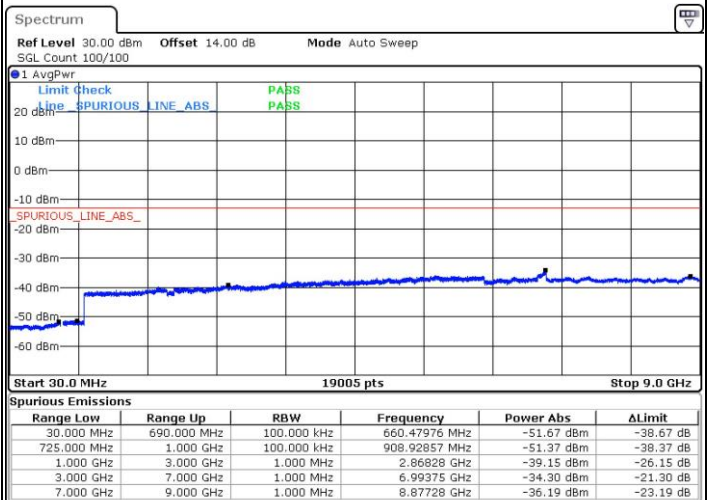
Date: 27.JUL.2017 20:57:36

## Middle Channel / QPSK



Date: 27.JUL.2017 20:59:14

## Middle Channel / 16QAM

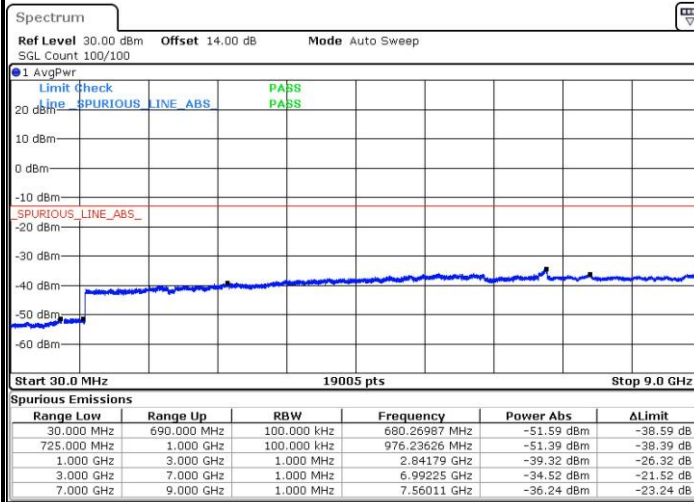


Date: 27.JUL.2017 21:00:11



## LTE Band 17 / 5MHz

## Highest Channel / QPSK



Date: 27.JUL.2017 21:06:28

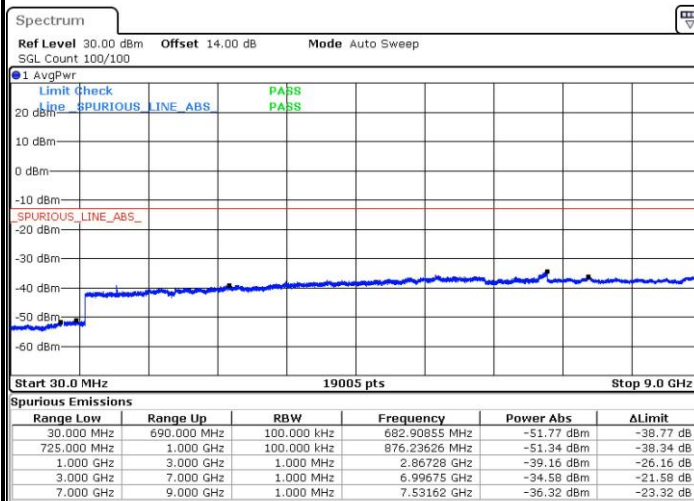
## Highest Channel / 16QAM



Date: 27.JUL.2017 21:07:24

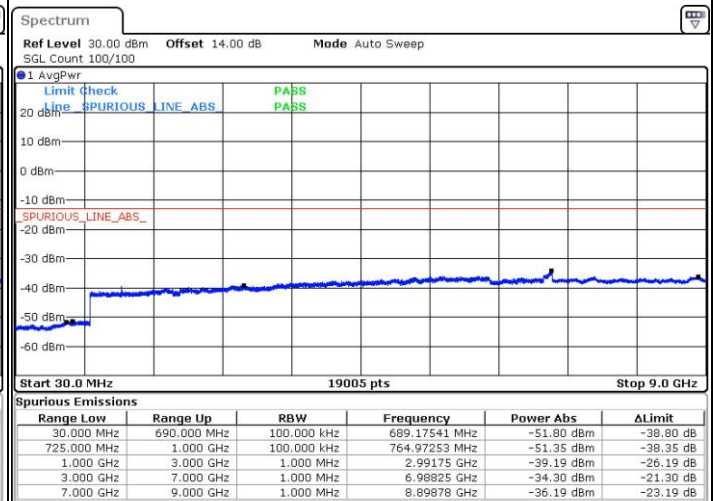
## LTE Band 17 / 10MHz

## Lowest Channel / QPSK



Date: 27.JUL.2017 21:13:42

## Lowest Channel / 16QAM

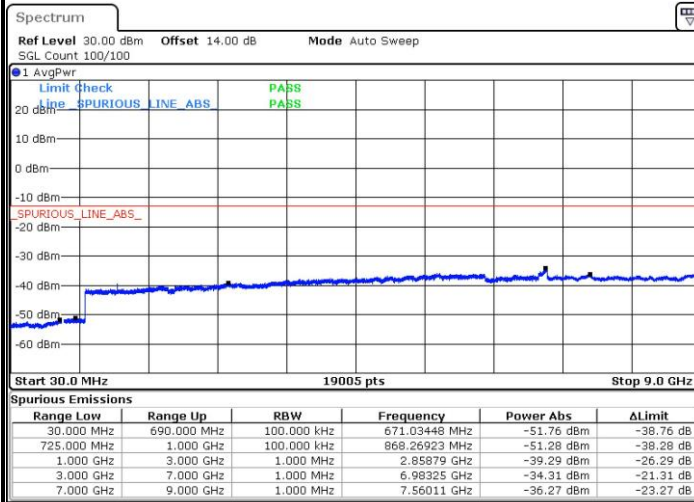


Date: 27.JUL.2017 21:14:38



## LTE Band 17 / 10MHz

## Middle Channel / QPSK



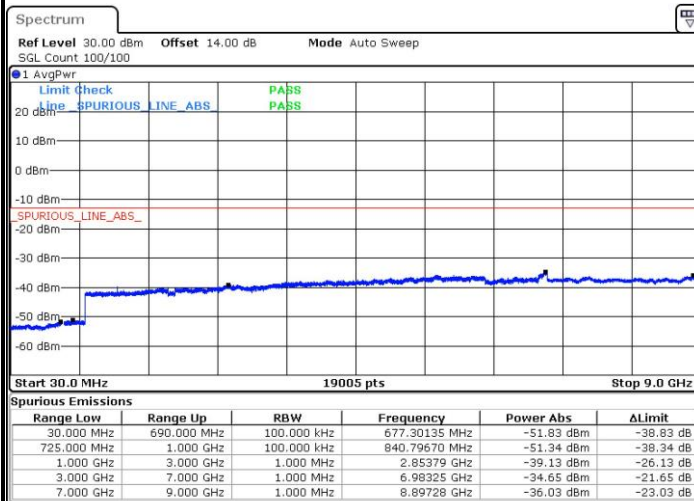
Date: 27.JUL.2017 21:16:16

## Middle Channel / 16QAM



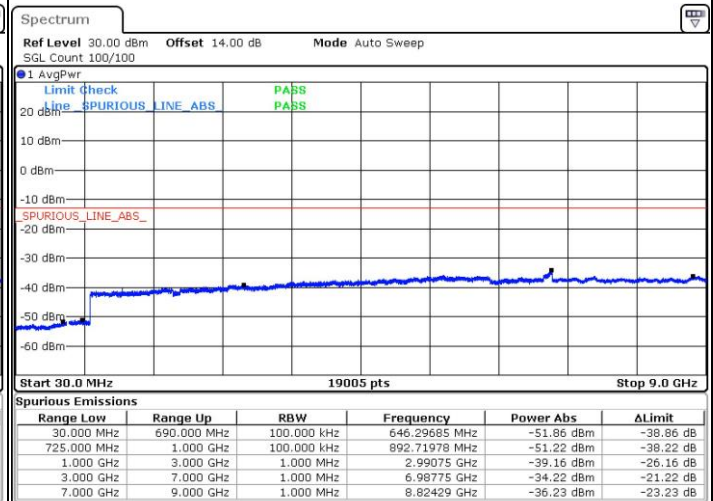
Date: 27.JUL.2017 21:17:13

## Highest Channel / QPSK



Date: 27.JUL.2017 21:23:30

## Highest Channel / 16QAM



Date: 27.JUL.2017 21:24:27



**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	0.0027	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

**Note:**

1. Normal Voltage =3.8V ; Battery End Point (BEP) =3.5 V ; Maximum Voltage =4.35 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	0.0011	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

**Note:**

1. Normal Voltage =3.8V ; Battery End Point (BEP) =3.5 V ; Maximum Voltage =4.35 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	0.0035	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

**Note:**

1. Normal Voltage =3.8V ; Battery End Point (BEP) =3.5 V ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

**Note:**

1. Normal Voltage =3.8V ; Battery End Point (BEP) =3.5 V ; Maximum Voltage =4.35 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 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447.18	-48.63	-13	-35.63	-68.24	-56.38	4.85	12.60	H
	5202	-54.47	-13	-41.47	-77.92	-61.99	5.58	13.10	H
	6894.36	-58.37	-13	-45.37	-81.89	-63.11	6.56	11.30	H
	3447.18	-49.91	-13	-36.91	-70.3	-57.66	4.85	12.6	V
	5202	-52.40	-13	-39.40	-76.45	-59.92	5.58	13.1	V
	6894.36	-57.68	-13	-44.68	-81.22	-62.42	6.56	11.3	V

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

LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3757	-34.36	-13	-21.36	-53.97	-42.11	4.85	12.60	H
	5635	-44.34	-13	-31.34	-67.79	-51.86	5.58	13.10	H
	7514	-55.61	-13	-42.61	-79.13	-60.35	6.56	11.30	H
	3757	-36.25	-13	-23.25	-56.64	-44.00	4.85	12.6	V
	5635	-47.12	-13	-34.12	-71.17	-54.64	5.58	13.1	V
	7514	-55.62	-13	-42.62	-79.16	-60.36	6.56	11.3	V

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



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3756	-36.46	-13	-23.46	-53.21	-44.21	4.85	12.60	H
	5634	-41.07	-13	-28.07	-64.52	-48.59	5.58	13.10	H
	8448	-58.48	-13	-45.48	-82.00	-63.22	6.56	11.30	H
	3756	-37.25	-13	-24.25	-54.97	-45.00	4.85	12.6	V
	5634	-45.42	-13	-32.42	-69.47	-52.94	5.58	13.1	V
	8448	-58.24	-13	-45.24	-81.78	-62.98	6.56	11.3	V

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

LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3751	-36.80	-13	-23.80	-53.48	-44.55	4.85	12.60	H
	5626.5	-41.50	-13	-28.50	-64.95	-49.02	5.58	13.10	H
	7502	-55.64	-13	-42.64	-79.16	-60.38	6.56	11.30	H
	3751	-40.87	-13	-27.87	-58.52	-48.62	4.85	12.6	V
	5626.5	-38.77	-13	-25.77	-62.82	-46.29	5.58	13.1	V
	7502	-55.14	-13	-42.14	-78.68	-59.88	6.56	11.3	V

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



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3746	-42.71	-13	-29.71	-58.21	-50.46	4.85	12.60	H
	5619	-46.07	-13	-33.07	-69.52	-53.59	5.58	13.10	H
	7493	-55.25	-13	-42.25	-78.77	-59.99	6.56	11.30	H
	3746	-42.40	-13	-29.40	-62.79	-50.15	4.85	12.6	V
	5619	-49.70	-13	-36.70	-73.75	-57.22	5.58	13.1	V
	7493	-55.77	-13	-42.77	-79.31	-60.51	6.56	11.3	V

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

LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742	-44.06	-13	-31.06	-59.29	-51.81	4.85	12.60	H
	5613	-44.25	-13	-31.25	-67.70	-51.77	5.58	13.10	H
	7484	-55.15	-13	-42.15	-78.67	-59.89	6.56	11.30	H
	3742	-41.27	-13	-28.27	-61.66	-49.02	4.85	12.6	V
	5613	-50.19	-13	-37.19	-74.24	-57.71	5.58	13.1	V
	7484	-55.62	-13	-42.62	-79.16	-60.36	6.56	11.3	V

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



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3463.74	-48.64	-13	-35.64	-67.97	-56.87	4.37	12.60	H
	5195.61	-53.39	-13	-40.39	-77.55	-61.15	4.94	12.70	H
	6927.48	-57.74	-13	-44.74	-81.65	-63.12	6.32	11.70	H
	3463.74	-54.17	-13	-41.17	-70.25	-62.40	4.37	12.60	V
	5195.61	-56.87	-13	-43.87	-76.38	-64.63	4.94	12.70	V
	6927.48	-57.81	-13	-44.81	-81.72	-63.19	6.32	11.70	V

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

LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3462.48	-48.39	-13	-35.39	-67.72	-56.62	4.37	12.60	H
	5193.72	-53.18	-13	-40.18	-77.34	-60.94	4.94	12.70	H
	6924.96	-57.66	-13	-44.66	-81.57	-63.04	6.32	11.70	H
	3462.48	-53.76	-13	-40.76	-69.84	-61.99	4.37	12.60	V
	5193.72	-57.14	-13	-44.14	-76.65	-64.90	4.94	12.70	V
	6924.96	-57.95	-13	-44.95	-81.86	-63.33	6.32	11.70	V

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



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3460.68	-48.62	-13	-35.62	-67.95	-56.85	4.37	12.60	H
	5191.02	-52.64	-13	-39.64	-76.80	-60.40	4.94	12.70	H
	6921.36	-57.92	-13	-44.92	-81.83	-63.30	6.32	11.70	H
	3460.68	-53.88	-13	-40.88	-69.96	-62.11	4.37	12.60	V
	5191.02	-57.46	-13	-44.46	-76.97	-65.22	4.94	12.70	V
	6921.36	-57.73	-13	-44.73	-81.64	-63.11	6.32	11.70	V

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

LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3456.18	-48.16	-13	-35.16	-67.49	-56.39	4.37	12.60	H
	5202	-53.56	-13	-40.56	-77.72	-61.32	4.94	12.70	H
	6912.36	-57.87	-13	-44.87	-81.78	-63.25	6.32	11.70	H
	3456.18	-53.77	-13	-40.77	-69.85	-62.00	4.37	12.60	V
	5202	-56.76	-13	-43.76	-76.27	-64.52	4.94	12.70	V
	6912.36	-57.34	-13	-44.34	-81.25	-62.72	6.32	11.70	V

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





LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3451.68	-48.42	-13	-35.42	-67.75	-56.65	4.37	12.60	H
	5202	-54.04	-13	-41.04	-78.20	-61.80	4.94	12.70	H
	6903.36	-57.59	-13	-44.59	-81.50	-62.97	6.32	11.70	H
	3451.68	-53.49	-13	-40.49	-69.57	-61.72	4.37	12.60	V
	5202	-56.70	-13	-43.70	-76.21	-64.46	4.94	12.70	V
	6903.36	-57.74	-13	-44.74	-81.65	-63.12	6.32	11.70	V

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

LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447.18	-48.91	-13	-35.91	-68.24	-57.14	4.37	12.60	H
	5202	-53.76	-13	-40.76	-77.92	-61.52	4.94	12.70	H
	6894.36	-57.98	-13	-44.98	-81.89	-63.36	6.32	11.70	H
	3447.18	-54.22	-13	-41.22	-70.3	-62.45	4.37	12.60	V
	5202	-56.94	-13	-43.94	-76.45	-64.70	4.94	12.70	V
	6894.36	-57.31	-13	-44.31	-81.22	-62.69	6.32	11.70	V

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



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1671.92	-59.27	-13	-46.27	-64.83	-63.68	2.84	9.40	H
	2507.88	-68.14	-13	-55.14	-78.56	-72.89	3.7	10.60	H
	3343.84	-65.54	-13	-52.54	-80.30	-71.62	4.37	12.60	H
	1671.92	-60.82	-13	-47.82	-65.53	-65.23	2.84	9.40	V
	2507.88	-68.23	-13	-55.23	-78.06	-72.98	3.70	10.60	V
	3343.84	-66.76	-13	-53.76	-80.33	-72.84	4.37	12.60	V

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

LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1670.48	-59.25	-13	-46.25	-64.81	-63.66	2.84	9.40	H
	2505.72	-68.06	-13	-55.06	-78.48	-72.81	3.7	10.60	H
	3340.96	-65.66	-13	-52.66	-80.42	-71.74	4.37	12.60	H
	1670.48	-60.96	-13	-47.96	-65.67	-65.37	2.84	9.40	V
	2505.72	-68.56	-13	-55.56	-78.39	-73.31	3.70	10.60	V
	3340.96	-66.80	-13	-53.80	-80.37	-72.88	4.37	12.60	V

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



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668.68	-56.78	-13	-43.78	-62.34	-61.19	2.84	9.40	H
	2503.02	-67.07	-13	-54.07	-77.49	-71.82	3.7	10.60	H
	3337.36	-65.29	-13	-52.29	-80.05	-71.37	4.37	12.60	H
	1668.68	-58.13	-13	-45.13	-62.84	-62.54	2.84	9.40	V
	2503.02	-68.38	-13	-55.38	-78.21	-73.13	3.70	10.60	V
	3337.36	-66.56	-13	-53.56	-80.13	-72.64	4.37	12.60	V

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

LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664.18	-54.56	-13	-41.56	-60.12	-58.97	2.84	9.40	H
	2496.27	-67.09	-13	-54.09	-77.51	-71.84	3.7	10.60	H
	3328.36	-65.08	-13	-52.08	-79.84	-71.16	4.37	12.60	H
	1664.18	-56.03	-13	-43.03	-60.74	-60.44	2.84	9.40	V
	2496.27	-68.05	-13	-55.05	-77.88	-72.80	3.70	10.60	V
	3328.36	-66.80	-13	-53.80	-80.37	-72.88	4.37	12.60	V

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



LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1415.68	-34.38	-13	-21.38	-52.27	-38.79	2.84	9.40	H
	2123.58	-64.00	-13	-51.00	-74.42	-68.75	3.7	10.60	H
	2831.36	-59.44	-13	-46.44	-74.20	-65.52	4.37	12.60	H
	1415.68	-17.31	-13	-4.31	-31.52	-21.72	2.84	9.40	V
	2123.58	-19.94	-13	-6.94	-43.30	-24.69	3.70	10.60	V
	2831.36	-50.08	-13	-37.08	-63.65	-56.16	4.37	12.60	V

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

LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1411.18	-33.79	-13	-20.79	-51.29	-38.20	2.84	9.40	H
	2116.77	-61.06	-13	-48.06	-71.48	-65.81	3.7	10.60	H
	2822.36	-60.43	-13	-47.43	-75.19	-66.51	4.37	12.60	H
	1411.18	-18.16	-13	-5.16	-32.36	-22.57	2.84	9.40	V
	2116.77	-24.93	-13	-11.93	-48.04	-29.68	3.70	10.60	V
	2822.36	-56.70	-13	-43.70	-70.27	-62.78	4.37	12.60	V

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