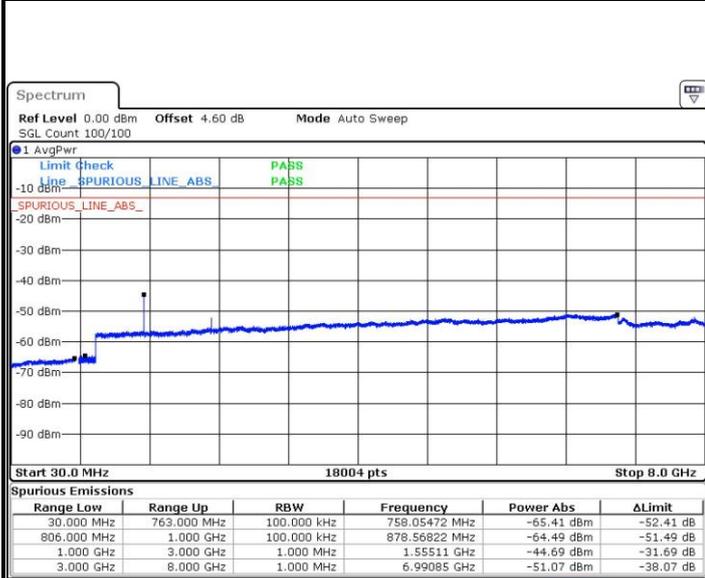




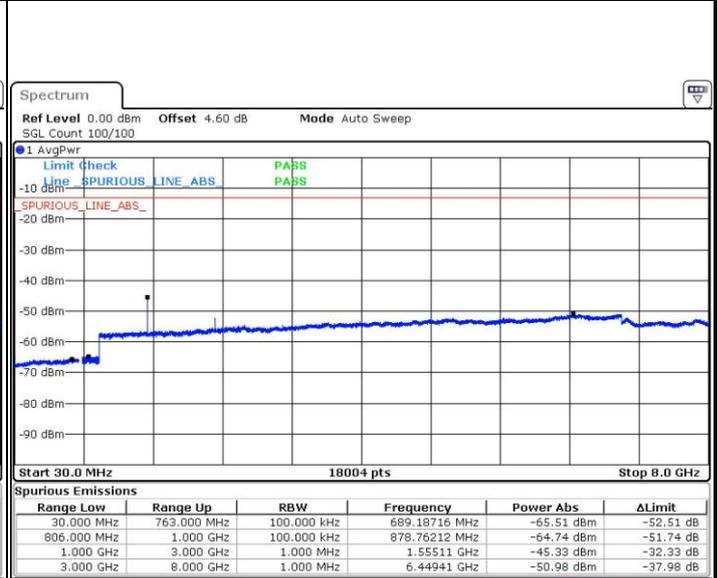
LTE Band 13 / 5MHz

Lowest Channel / QPSK



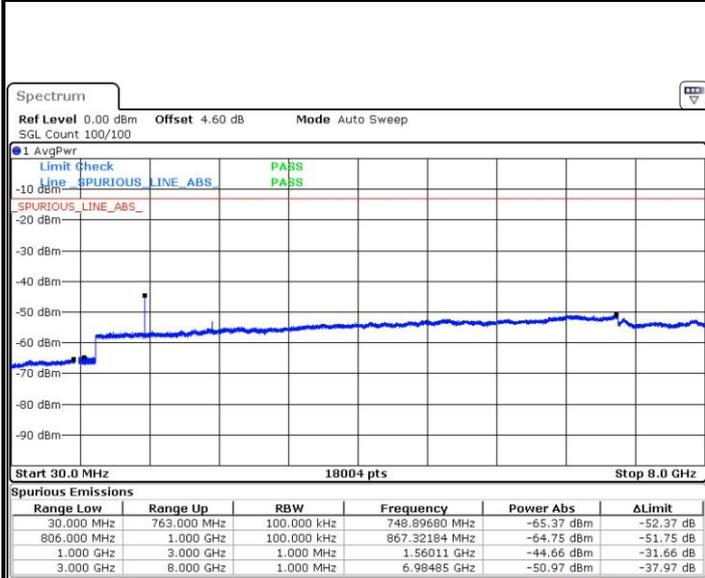
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Lowest Channel / 16QAM



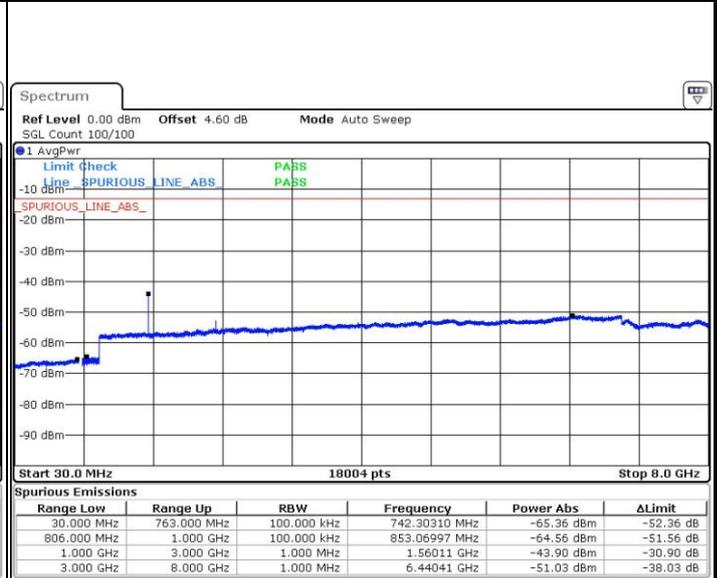
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Middle Channel / QPSK



Date: 15.APR.2017 00:52:15

Middle Channel / 16QAM

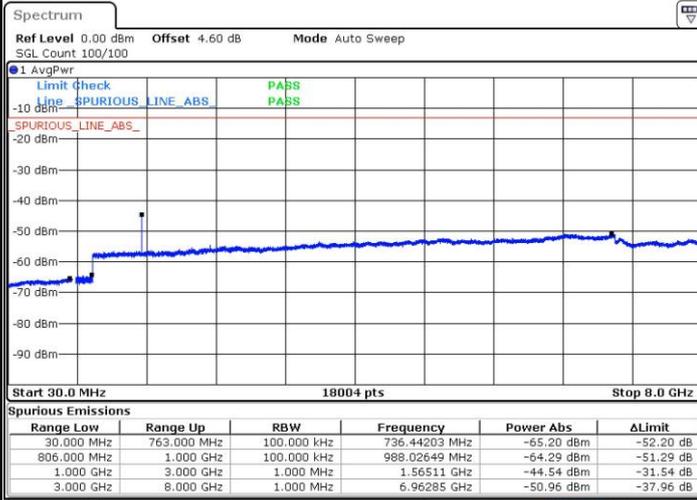


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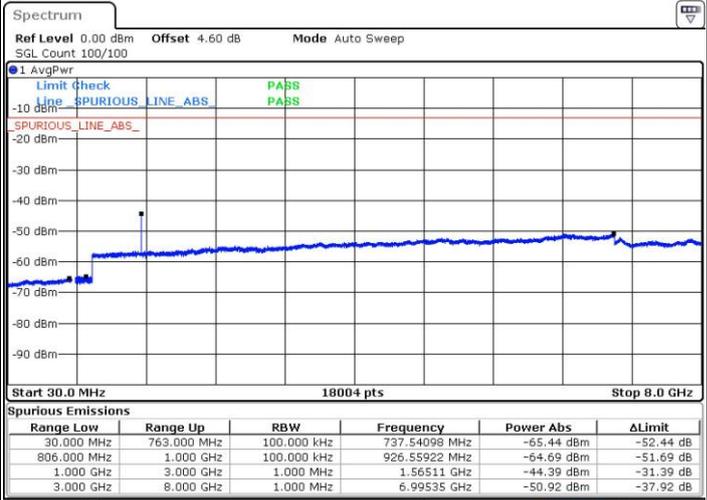
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 15 APR 2017 00:53:10

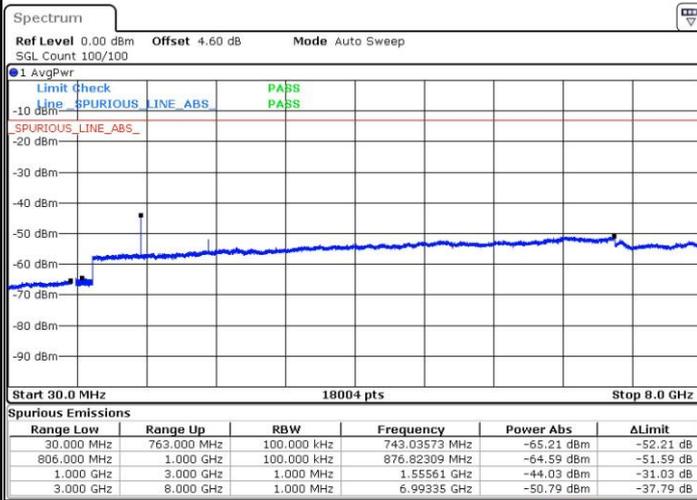
Highest Channel / 16QAM



Date: 15 APR 2017 00:54:05

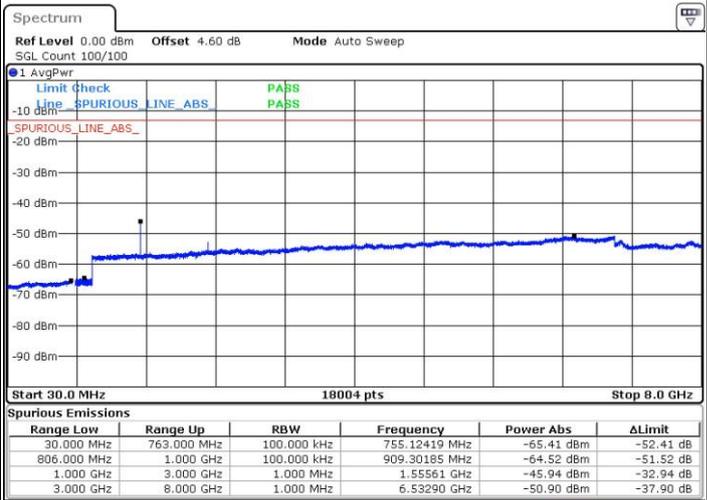
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 15 APR 2017 00:56:37

Middle Channel / 16QAM



Date: 15 APR 2017 00:55:42



### 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	0.0019	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0010	
20	Battery End Point	0.0011	

**Note:**

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 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	0.0018	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0006	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 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	0.0018	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0024	

Note: Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0028	

**Note:**

- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 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	3759	-67.06	-13	-54.06	-75.45	-72.54	1.62	7.10	H
	5638.38	-63.24	-13	-50.24	-76.43	-71.78	1.86	10.40	H
	7518	-58.55	-13	-45.55	-76.86	-68.10	2.40	11.94	H
	3759	-65.53	-13	-52.53	-75.12	-71.01	1.62	7.10	V
	5638.38	-64.97	-13	-51.97	-77.05	-73.51	1.86	10.40	V
	7518	-60.57	-13	-47.57	-76.69	-70.12	2.40	11.94	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	-66.82	-13	-53.82	-75.21	-72.30	1.62	7.10	H
	5636.22	-63.60	-13	-50.60	-76.79	-72.14	1.86	10.40	H
	7515	-59.00	-13	-46.00	-77.31	-68.55	2.40	11.94	H
	3757.48	-65.33	-13	-52.33	-74.92	-70.81	1.62	7.10	V
	5636.22	-64.76	-13	-51.76	-76.84	-73.30	1.86	10.40	V
	7515	-59.68	-13	-46.68	-75.8	-69.23	2.40	11.94	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	-67.41	-13	-54.41	-75.80	-72.89	1.62	7.10	H
	5633.52	-63.86	-13	-50.86	-77.05	-72.40	1.86	10.40	H
	7512	-58.89	-13	-45.89	-77.20	-68.44	2.40	11.94	H
	3756	-65.75	-13	-52.75	-75.34	-71.23	1.62	7.10	V
	5633.52	-64.63	-13	-51.63	-76.71	-73.17	1.86	10.40	V
	7512	-61.21	-13	-48.21	-77.33	-70.76	2.40	11.94	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	3750	-67.21	-13	-54.21	-75.60	-72.69	1.62	7.10	H
	5626.77	-63.81	-13	-50.81	-77.00	-72.35	1.86	10.40	H
	7503	-58.38	-13	-45.38	-76.69	-67.93	2.40	11.94	H
	3750	-66.02	-13	-53.02	-75.61	-71.50	1.62	7.10	V
	5626.77	-64.30	-13	-51.30	-76.38	-72.84	1.86	10.40	V
	7503	-60.19	-13	-47.19	-76.31	-69.74	2.40	11.94	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	3747	-67.20	-13	-54.20	-75.59	-72.68	1.62	7.10	H
	5620.02	-63.71	-13	-50.71	-76.90	-72.25	1.86	10.40	H
	7494	-58.54	-13	-45.54	-76.85	-68.09	2.40	11.94	H
	3746.68	-65.01	-13	-52.01	-74.6	-70.49	1.62	7.10	V
	5619	-64.94	-13	-51.94	-77.02	-73.48	1.86	10.40	V
	7494	-60.33	-13	-47.33	-76.45	-69.88	2.40	11.94	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	3741	-66.87	-13	-53.87	-75.26	-72.35	1.62	7.10	H
	5613.27	-63.48	-13	-50.48	-76.67	-72.02	1.86	10.40	H
	7485	-58.02	-13	-45.02	-76.33	-67.57	2.40	11.94	H
	3742.18	-65.98	-13	-52.98	-75.57	-71.46	1.62	7.10	V
	5613	-65.46	-13	-52.46	-77.54	-74.00	1.86	10.40	V
	7485	-59.58	-13	-46.58	-75.7	-69.13	2.40	11.94	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	3463.92	-65.09	-13	-52.09	-77.52	-71.25	1.43	7.59	H
	5195.88	-62.07	-13	-49.07	-76.91	-69.63	1.83	9.39	H
	6927.84	-60.59	-13	-47.59	-78.32	-70.18	2.08	11.67	H
	3463.92	-66.62	-13	-53.62	-76.4	-72.78	1.43	7.59	V
	5195.88	-61.73	-13	-48.73	-77	-69.29	1.83	9.39	V
	6927.84	-62.02	-13	-49.02	-78.9	-71.61	2.08	11.67	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	-65.03	-13	-52.03	-77.46	-71.19	1.43	7.59	H
	5193.72	-63.22	-13	-50.22	-78.06	-70.78	1.83	9.39	H
	6924.96	-60.86	-13	-47.86	-78.59	-70.45	2.08	11.67	H
	3462.48	-67.96	-13	-54.96	-77.74	-74.12	1.43	7.59	V
	5193.72	-61.93	-13	-48.93	-77.2	-69.49	1.83	9.39	V
	6924.96	-61.48	-13	-48.48	-78.36	-71.07	2.08	11.67	V

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

LTE Band 4 / 5MHz / QPSK									
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	-63.20	-13	-50.20	-75.63	-69.36	1.43	7.59	H
	5191.02	-62.28	-13	-49.28	-77.12	-69.84	1.83	9.39	H
	6921	-59.52	-13	-46.52	-77.25	-69.11	2.08	11.67	H
	3460.68	-66.92	-13	-53.92	-76.7	-73.08	1.43	7.59	V
	5191.02	-61.05	-13	-48.05	-76.32	-68.61	1.83	9.39	V
	6921	-61.52	-13	-48.52	-78.4	-71.11	2.08	11.67	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	-62.97	-13	-49.97	-75.40	-69.13	1.43	7.59	H
	5184.27	-61.69	-13	-48.69	-76.53	-69.25	1.83	9.39	H
	6912	-59.23	-13	-46.23	-76.96	-68.82	2.08	11.67	H
	3456.18	-66.84	-13	-53.84	-76.62	-73.00	1.43	7.59	V
	5184	-60.39	-13	-47.39	-75.66	-67.95	1.83	9.39	V
	6912	-59.99	-13	-46.99	-76.87	-69.58	2.08	11.67	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	-64.26	-13	-51.26	-76.69	-70.42	1.43	7.59	H
	5178	-62.22	-13	-49.22	-77.06	-69.78	1.83	9.39	H
	6903	-61.06	-13	-48.06	-78.79	-70.65	2.08	11.67	H
	3451.68	-66.41	-13	-53.41	-76.19	-72.57	1.43	7.59	V
	5177.52	-61.66	-13	-48.66	-76.93	-69.22	1.83	9.39	V
	6903	-60.99	-13	-47.99	-77.87	-70.58	2.08	11.67	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	-64.48	-13	-51.48	-76.91	-70.64	1.43	7.59	H
	5170.77	-62.74	-13	-49.74	-77.58	-70.30	1.83	9.39	H
	6894	-60.61	-13	-47.61	-78.34	-70.20	2.08	11.67	H
	3447.18	-66.16	-13	-53.16	-75.94	-72.32	1.43	7.59	V
	5170.77	-61.89	-13	-48.89	-77.16	-69.45	1.83	9.39	V
	6894	-61.84	-13	-48.84	-78.72	-71.43	2.08	11.67	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	1672	-65.84	-13	-52.84	-64.35	-68.48	1.01	5.80	H
	2507.88	-64.09	-13	-51.09	-72.67	-67.66	1.18	6.90	H
	3343.83	-62.00	-13	-49.00	-71.44	-65.57	1.78	7.50	H
	4179.8	-57.64	-13	-44.64	-65.56	-61.15	1.64	7.30	H
	1672	-67.34	-13	-54.34	-66.46	-69.98	1.01	5.80	V
	2507.88	-62.49	-13	-49.49	-71.63	-66.06	1.18	6.90	V
	3343.84	-65.02	-13	-52.02	-73.34	-68.59	1.78	7.50	V
	4179	-61.93	-13	-48.93	-70.14	-65.43	1.64	7.30	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	-64.95	-13	-51.95	-63.46	-67.59	1.01	5.80	H
	2505.72	-64.25	-13	-51.25	-72.83	-67.82	1.18	6.90	H
	3340.96	-63.05	-13	-50.05	-72.49	-66.62	1.78	7.50	H
	4176	-58.60	-13	-45.60	-66.52	-70.30	1.82	13.52	H
	1670	-66.29	-13	-53.29	-65.41	-68.93	1.01	5.80	V
	2505.72	-62.87	-13	-49.87	-72.01	-66.44	1.18	6.90	V
	3340.96	-65.86	-13	-52.86	-74.18	-69.43	1.78	7.50	V
	4176	-59.13	-13	-46.13	-67.34	-72.98	1.82	13.52	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	-64.34	-13	-51.34	-62.85	-66.98	1.01	5.80	H
	2503.02	-63.70	-13	-50.70	-72.28	-67.27	1.18	6.90	H
	3337	-61.95	-13	-48.95	-71.39	-65.52	1.78	7.50	H
	4171.7	-61.92	-13	-48.92	-69.84	-73.62	1.82	13.52	H
	1668	-66.51	-13	-53.51	-65.63	-69.15	1.01	5.80	V
	2503.02	-63.34	-13	-50.34	-72.48	-66.91	1.18	6.90	V
	3337.36	-65.90	-13	-52.90	-74.22	-69.47	1.78	7.50	V
	4171.7	-66.11	-13	-53.11	-74.32	-79.96	1.82	13.52	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	-61.28	-13	-48.28	-61.16	-63.92	1.01	5.80	H
	2496.27	-65.25	-13	-52.25	-73.83	-68.82	1.18	6.90	H
	3327	-65.87	-13	-52.87	-75.31	-69.44	1.78	7.50	H
	4160.45	-63.09	-13	-50.09	-71.01	-74.79	1.82	13.52	H
	1664	-65.96	-13	-52.96	-65.08	-68.60	1.01	5.80	V
	2496.27	-64.44	-13	-51.44	-73.58	-68.01	1.18	6.90	V
	3328.36	-67.75	-13	-54.75	-76.07	-71.32	1.78	7.50	V
	4161	-65.54	-13	-52.54	-73.75	-79.39	1.82	13.52	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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-62.69	-40	-22.69	-65.07	-66.45	0.91	4.67	H
	2339.52	-67.01	-13	-54.01	-74.80	-69.85	1.19	6.18	H
	3120	-65.99	-13	-52.99	-74.44	-69.90	1.34	7.40	H
	1560	-64.32	-40	-24.32	-68.14	-68.08	0.91	4.67	V
	2339.52	-65.49	-13	-52.49	-73.87	-68.33	1.19	6.18	V
	3120	-64.59	-13	-51.59	-72.77	-68.51	1.34	7.40	V

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

LTE Band 13 / 10MHz / QPSK									
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	1555	-63.45	-13	-50.45	-65.83	-65.06	0.91	4.67	H
	2332.77	-66.22	-13	-53.22	-74.01	-69.06	1.19	6.18	H
	3110.36	-67.17	-13	-54.17	-75.62	-71.08	1.34	7.40	H
	1555	-63.62	-13	-50.62	-67.44	-65.23	0.91	4.67	V
	2332.77	-65.75	-13	-52.75	-74.13	-68.59	1.19	6.18	V
	3110.36	-66.74	-13	-53.74	-74.92	-70.66	1.34	7.40	V

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