



**LTE Band 17- ERP 27.50(c)(10)**

**Limits:** ≤34.77dBm (3W)

**LTE Band 17\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.89	-34.70	-0.91	2.15	19.75	34.77	V
710.00	-12.03	-34.70	-0.64	2.15	19.87	34.77	V
713.50	-11.91	-34.70	-0.64	2.15	20.00	34.77	V

**LTE Band 17\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.92	-34.70	-0.91	2.15	19.72	34.77	V
710.00	-12.06	-34.70	-0.64	2.15	19.85	34.77	V
711.00	-11.98	-34.70	-0.64	2.15	19.93	34.77	V

**LTE Band 17\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.94	-34.70	-0.91	2.15	19.70	34.77	V
710.00	-12.09	-34.70	-0.64	2.15	19.82	34.77	V
713.50	-11.98	-34.70	-0.64	2.15	19.93	34.77	V

**LTE Band 17\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.96	-34.70	-0.91	2.15	19.68	34.77	V
710.00	-12.11	-34.70	-0.64	2.15	19.80	34.77	V
711.00	-12.01	-34.70	-0.64	2.15	19.90	34.77	V

**LTE band 25- ERP Part 24. 232(c)**Limits:  $\leq 33.00\text{dBm}$  (2W)**LTE Band 25\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.75	-29.30	8.10	19.65	33.00	H
1882.50	-17.90	-29.40	8.10	19.60	33.00	H
1914.30	-17.50	-29.30	8.10	19.90	33.00	H

**LTE Band 25\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.83	-29.30	8.10	19.57	33.00	H
1882.50	-17.73	-29.40	8.10	19.77	33.00	H
1913.50	-17.52	-29.30	8.10	19.88	33.00	H

**LTE Band 25\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.85	-29.30	8.10	19.55	33.00	H
1882.50	-17.77	-29.40	8.10	19.73	33.00	H
1912.50	-17.57	-29.30	8.10	19.83	33.00	H

**LTE Band 25\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.87	-29.30	8.10	19.53	33.00	H
1882.00	-17.89	-29.40	8.10	19.61	33.00	H
1910.00	-17.59	-29.30	8.10	19.81	33.00	H

**LTE Band 25\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.89	-29.30	8.10	19.51	33.00	H
1882.50	-17.53	-29.40	8.10	19.97	33.00	H
1907.50	-17.63	-29.30	8.10	19.77	33.00	H

**LTE Band 25\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.92	-29.30	8.10	19.48	33.00	H
1882.50	-17.56	-29.40	8.10	19.94	33.00	H
1905.00	-17.68	-29.30	8.10	19.72	33.00	H



**LTE Band 25\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.78	-29.30	8.10	19.62	33.00	H
1882.50	-17.42	-29.40	8.10	20.08	33.00	H
1914.30	-17.53	-29.30	8.10	19.87	33.00	H

**LTE Band 25\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.82	-29.30	8.10	19.58	33.00	H
1882.50	-17.46	-29.40	8.10	20.04	33.00	H
1913.50	-17.57	-29.30	8.10	19.83	33.00	H

**LTE Band 25\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.85	-29.30	8.10	19.55	33.00	H
1882.50	-17.48	-29.40	8.10	20.02	33.00	H
1912.50	-17.62	-29.30	8.10	19.78	33.00	H

**LTE Band 25\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.87	-29.30	8.10	19.53	33.00	H
1882.00	-17.52	-29.40	8.10	19.98	33.00	H
1910.00	-17.65	-29.30	8.10	19.75	33.00	H

**LTE Band 25\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.92	-29.30	8.10	19.48	33.00	H
1882.50	-17.55	-29.40	8.10	19.95	33.00	H
1907.50	-17.69	-29.30	8.10	19.71	33.00	H

**LTE Band 25\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.95	-29.30	8.10	19.45	33.00	H
1882.50	-17.60	-29.40	8.10	19.90	33.00	H
1905.00	-17.75	-29.30	8.10	19.65	33.00	H

**LTE band 26(824MHz-849MHz)- ERP Part 22.913(a)**Limits:  $\leq 38.45\text{dBm}$  (7W)**LTE Band 26(824MHz-849MHz)\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-8.63	-33.60	-0.79	2.15	22.03	38.45	V
836.50	-9.14	-33.50	-0.74	2.15	21.47	38.45	V
848.30	-9.59	-33.50	-0.73	2.15	21.02	38.45	V

**LTE Band 26(824MHz-849MHz)\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-8.70	-33.60	-0.79	2.15	21.96	38.45	V
836.50	-9.18	-33.50	-0.74	2.15	21.43	38.45	V
847.50	-9.64	-33.50	-0.73	2.15	20.98	38.45	V

**LTE Band 26(824MHz-849MHz)\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-8.74	-33.60	-0.79	2.15	21.92	38.45	V
836.50	-9.21	-33.50	-0.74	2.15	21.40	38.45	V
846.50	-9.69	-33.50	-0.73	2.15	20.93	38.45	V

**LTE Band 26(824MHz-849MHz)\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-8.79	-33.60	-0.79	2.15	21.87	38.45	V
836.50	-9.24	-33.50	-0.74	2.15	21.37	38.45	V
844.00	-9.73	-33.50	-0.73	2.15	20.89	38.45	V

**LTE Band 26(824MHz-849MHz)\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-8.81	-33.60	-0.79	2.15	21.85	38.45	V
836.50	-9.31	-33.50	-0.74	2.15	21.30	38.45	V
841.50	-9.76	-33.50	-0.73	2.15	20.86	38.45	V



**LTE Band 26(824MHz-849MHz)\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-8.68	-33.60	-0.79	2.15	21.98	38.45	V
836.50	-9.20	-33.50	-0.74	2.15	21.41	38.45	V
848.30	-9.63	-33.50	-0.73	2.15	20.99	38.45	V

**LTE Band 26(824MHz-849MHz)\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-8.73	-33.60	-0.79	2.15	21.93	38.45	V
836.50	-9.24	-33.50	-0.74	2.15	21.37	38.45	V
847.50	-9.66	-33.50	-0.73	2.15	20.96	38.45	V

**LTE Band 26(824MHz-849MHz)\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-8.78	-33.60	-0.79	2.15	21.88	38.45	V
836.50	-9.29	-33.50	-0.74	2.15	21.32	38.45	V
846.50	-9.69	-33.50	-0.73	2.15	20.93	38.45	V

**LTE Band 26(824MHz-849MHz)\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-8.81	-33.60	-0.79	2.15	21.85	38.45	V
836.50	-9.33	-33.50	-0.74	2.15	21.28	38.45	V
844.00	-9.74	-33.50	-0.73	2.15	20.88	38.45	V

**LTE Band 26(824MHz-849MHz)\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
831.50	-8.86	-33.60	-0.79	2.15	21.80	38.45	V
836.50	-9.36	-33.50	-0.74	2.15	21.25	38.45	V
841.50	-9.79	-33.50	-0.73	2.15	20.83	38.45	V



**LTE band 26(814MHz-824MHz)- ERP Part 90.635(b)**

**Limits:** ≤50.00dBm (100W)

**LTE Band 26(814MHz-824MHz)\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-9.21	-33.70	-0.80	2.15	21.54	50.00	V
819.00	-8.69	-33.60	-0.75	2.15	22.01	50.00	V
823.30	-8.60	-33.60	-0.79	2.15	22.06	50.00	V

**LTE Band 26(814MHz-824MHz)\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-9.25	-33.70	-0.80	2.15	21.50	50.00	V
819.00	-8.76	-33.60	-0.75	2.15	21.94	50.00	V
822.50	-8.69	-33.60	-0.79	2.15	21.97	50.00	V

**LTE Band 26(814MHz-824MHz)\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-9.30	-33.70	-0.80	2.15	21.45	50.00	V
819.00	-8.80	-33.60	-0.75	2.15	21.90	50.00	V
821.50	-8.74	-33.60	-0.79	2.15	21.92	50.00	V

**LTE Band 26(814MHz-824MHz)\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-9.24	-33.60	-0.80	2.15	21.41	50.00	V
819.00	-8.88	-33.60	-0.75	2.15	21.82	50.00	V
819.00	-8.81	-33.60	-0.79	2.15	21.85	50.00	V



**LTE Band 26(814MHz-824MHz)\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
814.70	-9.24	-33.70	-0.80	2.15	21.51	50.00	V
819.00	-8.76	-33.60	-0.75	2.15	21.94	50.00	V
823.30	-8.69	-33.60	-0.79	2.15	21.97	50.00	V

**LTE Band 26(814MHz-824MHz)\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
815.50	-9.31	-33.70	-0.80	2.15	21.44	50.00	V
819.00	-8.80	-33.60	-0.75	2.15	21.90	50.00	V
822.50	-8.73	-33.60	-0.79	2.15	21.93	50.00	V

**LTE Band 26(814MHz-824MHz)\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
816.50	-9.34	-33.70	-0.80	2.15	21.41	50.00	V
819.00	-8.87	-33.60	-0.75	2.15	21.83	50.00	V
821.50	-8.79	-33.60	-0.79	2.15	21.87	50.00	V

**LTE Band 26(814MHz-824MHz)\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
819.00	-9.31	-33.60	-0.80	2.15	21.34	50.00	V
819.00	-8.92	-33.60	-0.75	2.15	21.78	50.00	V
819.00	-8.86	-33.60	-0.79	2.15	21.80	50.00	V

**LTE Band 38 - EIRP Part 27.50(h)(2)**Limits:  $\leq 33\text{dBm}$  (2W)**LTE Band 38\_5MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-17.84	-28.60	10.70	21.46	33.00	H
2595.00	-18.06	-28.60	10.70	21.24	33.00	H
2617.50	-17.89	-28.60	10.70	21.41	33.00	H

**LTE Band 38\_10MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-17.88	-28.60	10.70	21.42	33.00	H
2595.00	-18.11	-28.60	10.70	21.20	33.00	H
2615.00	-17.44	-28.60	10.70	21.86	33.00	H

**LTE Band 38\_15MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-17.94	-28.60	10.70	21.36	33.00	H
2595.00	-17.17	-28.60	10.70	22.13	33.00	H
2612.50	-17.50	-28.60	10.70	21.80	33.00	H

**LTE Band 38\_20MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-18.01	-28.60	10.70	21.29	33.00	H
2595.00	-17.89	-28.60	10.70	21.41	33.00	H
2610.00	-17.53	-28.60	10.70	21.77	33.00	H



**LTE Band 38\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2572.50	-17.90	-28.60	10.70	21.40	33.00	H
2595.00	-18.13	-28.60	10.70	21.17	33.00	H
2617.50	-17.52	-28.60	10.70	21.78	33.00	H

**LTE Band 38\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2575.00	-18.00	-28.60	10.70	21.30	33.00	H
2595.00	-17.79	-28.60	10.70	21.51	33.00	H
2615.00	-17.55	-28.60	10.70	21.75	33.00	H

**LTE Band 38\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	-18.04	-28.60	10.70	21.26	33.00	H
2595.00	-17.72	-28.60	10.70	21.58	33.00	H
2612.50	-17.57	-28.60	10.70	21.73	33.00	H

**LTE Band 38\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	-18.07	-28.60	10.70	21.23	33.00	H
2595.00	-17.77	-28.60	10.70	21.53	33.00	H
2610.00	-17.59	-28.60	10.70	21.71	33.00	H

**LTE Band 41- EIRP Part 27.50(d)(2)**Limits:  $\leq 33\text{dBm}$  (2W)**LTE Band 41\_5MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-17.58	-28.70	10.70	21.82	33.00	H
2593.00	-17.92	-28.60	10.70	21.38	33.00	H
2687.50	-18.16	-28.50	10.70	21.04	33.00	H

**LTE Band 41\_10MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-17.62	-28.70	10.70	21.78	33.00	H
2593.00	-17.95	-28.60	10.70	21.35	33.00	H
2685.00	-18.20	-28.50	10.70	21.00	33.00	H

**LTE Band 41\_15MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.00	-17.67	-28.70	10.70	21.73	33.00	H
2593.00	-18.00	-28.60	10.70	21.30	33.00	H
2682.50	-18.22	-28.50	10.70	20.98	33.00	H

**LTE Band 41\_20MHz\_QPSK**

Frequency(MHz)	$P_{\text{Mea}}$ (dBm)	$P_{\text{ci}}$ (dB)+ $P_{\text{Ag}}$ (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-17.71	-28.70	10.70	21.69	33.00	H
2593.00	-18.02	-28.60	10.70	21.28	33.00	H
2680.00	-18.25	-28.50	10.70	20.95	33.00	H

**LTE Band 41\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2498.50	-17.62	-28.70	10.70	21.78	33.00	H
2593.00	-17.97	-28.60	10.70	21.33	33.00	H
2687.50	-18.21	-28.50	10.70	20.99	33.00	H

**LTE Band 41\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.00	-17.65	-28.70	10.70	21.75	33.00	H
2593.00	-18.01	-28.60	10.70	21.29	33.00	H
2685.00	-18.25	-28.50	10.70	20.95	33.00	H

**LTE Band 41\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	-17.69	-28.70	10.70	21.71	33.00	H
2593.00	-18.05	-28.60	10.70	21.25	33.00	H
2682.50	-18.31	-28.50	10.70	20.89	33.00	H

**LTE Band 41\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	-17.73	-28.70	10.70	21.67	33.00	H
2593.00	-18.10	-28.60	10.70	21.20	33.00	H
2680.00	-18.34	-28.50	10.70	20.86	33.00	H

**LTE Band 66- EIRP Part 27.50(d)(4)**

Limits: ≤30dBm (1W)

**LTE Band 66\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.30	-29.60	8.10	19.40	30.00	H
1745.00	-17.95	-29.50	8.10	19.65	30.00	H
1779.30	-18.02	-29.50	8.10	19.58	30.00	H

**LTE Band 66\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.33	-29.60	8.10	19.37	30.00	H
1745.00	-17.98	-29.50	8.10	19.62	30.00	H
1778.50	-18.05	-29.50	8.10	19.55	30.00	H

**LTE Band 66\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.35	-29.60	8.10	19.35	30.00	H
1745.00	-18.01	-29.50	8.10	19.59	30.00	H
1777.50	-18.07	-29.50	8.10	19.53	30.00	H

**LTE Band 66\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.38	-29.60	8.10	19.32	30.00	H
1745.00	-18.06	-29.50	8.10	19.54	30.00	H
1775.00	-18.10	-29.50	8.10	19.50	30.00	H

**LTE Band 66\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.41	-29.60	8.10	19.29	30.00	H
1745.00	-18.08	-29.50	8.10	19.52	30.00	H
1772.53	-18.12	-29.50	8.10	19.48	30.00	H

**LTE Band 66\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.45	-29.60	8.10	19.25	30.00	H
1745.00	-18.12	-29.50	8.10	19.48	30.00	H
1770.00	-18.15	-29.50	8.10	19.45	30.00	H



**LTE Band 66\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.32	-29.60	8.10	19.38	30.00	H
1745.00	-17.98	-29.50	8.10	19.62	30.00	H
1779.30	-18.01	-29.50	8.10	19.59	30.00	H

**LTE Band 66\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.36	-29.60	8.10	19.34	30.00	H
1745.00	-18.03	-29.50	8.10	19.57	30.00	H
1778.50	-18.06	-29.50	8.10	19.54	30.00	H

**LTE Band 66\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.39	-29.60	8.10	19.31	30.00	H
1745.00	-18.07	-29.50	8.10	19.53	30.00	H
1777.50	-18.11	-29.50	8.10	19.49	30.00	H

**LTE Band 66\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.43	-29.60	8.10	19.27	30.00	H
1745.00	-18.09	-29.50	8.10	19.51	30.00	H
1775.00	-18.13	-29.50	8.10	19.47	30.00	H

**LTE Band 66\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.46	-29.60	8.10	19.24	30.00	H
1745.00	-18.12	-29.50	8.10	19.48	30.00	H
1772.53	-18.16	-29.50	8.10	19.44	30.00	H

**LTE Band 66\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-18.50	-29.60	8.10	19.20	30.00	H
1745.00	-18.15	-29.50	8.10	19.45	30.00	H
1770.00	-18.20	-29.50	8.10	19.40	30.00	H

**LTE Band CA\_7C - EIRP Part 27.50(h)(2)**

Limits: ≤33 dBm (2W)

**LTE Band CA\_7C\_10MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-20.79	-28.70	10.70	18.61	33.00	V
2525.60	2540.00	-20.60	-28.60	10.70	18.70	33.00	V
2545.60	2560.00	-20.73	-28.60	10.70	18.57	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-20.89	-28.70	10.70	18.51	33.00	H
2530.10	2542.10	-20.70	-28.60	10.70	18.60	33.00	H
2552.70	2564.70	-20.84	-28.60	10.70	18.46	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-20.89	-28.70	10.70	18.51	33.00	H
2527.50	2542.50	-20.70	-28.60	10.70	18.60	33.00	H
2547.50	2562.50	-20.84	-28.60	10.70	18.46	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-20.95	-28.70	10.70	18.45	33.00	H
2525.30	2542.40	-20.76	-28.60	10.70	18.54	33.00	H
2542.90	2560.00	-20.89	-28.60	10.70	18.41	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-20.82	-28.70	10.70	18.58	33.00	H
2530.10	2544.50	-20.63	-28.60	10.70	18.67	33.00	H
2550.10	2564.50	-20.76	-28.60	10.70	18.54	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-20.85	-28.70	10.70	18.55	33.00	H
2527.60	2544.70	-20.66	-28.60	10.70	18.64	33.00	H
2545.10	2562.20	-20.79	-28.60	10.70	18.51	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-20.86	-28.70	10.70	18.54	33.00	H
2525.10	2544.90	-20.67	-28.60	10.70	18.63	33.00	H
2540.20	2560.00	-20.80	-28.60	10.70	18.50	33.00	H



**LTE Band CA\_7C\_10MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.50	2519.90	-20.90	-28.70	10.70	18.50	33.00	V
2525.60	2540.00	-20.71	-28.60	10.70	18.59	33.00	V
2545.60	2560.00	-20.84	-28.60	10.70	18.46	33.00	V

**LTE Band CA\_7C\_15MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2519.50	-20.95	-28.70	10.70	18.45	33.00	H
2530.10	2542.10	-20.76	-28.60	10.70	18.54	33.00	H
2552.70	2564.70	-20.90	-28.60	10.70	18.40	33.00	H

**LTE Band CA\_7C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	2522.50	-20.91	-28.70	10.70	18.49	33.00	H
2527.50	2542.50	-20.73	-28.60	10.70	18.57	33.00	H
2547.50	2562.50	-20.86	-28.60	10.70	18.44	33.00	H

**LTE Band CA\_7C\_15MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.80	2425.90	-20.99	-28.70	10.70	18.41	33.00	H
2525.30	2542.40	-20.80	-28.60	10.70	18.50	33.00	H
2542.90	2560.00	-20.93	-28.60	10.70	18.37	33.00	H

**LTE Band CA\_7C\_20MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2524.40	-20.89	-28.70	10.70	18.51	33.00	H
2530.10	2544.50	-20.70	-28.60	10.70	18.60	33.00	H
2550.10	2564.50	-20.84	-28.60	10.70	18.46	33.00	H

**LTE Band CA\_7C\_20MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2527.10	-20.99	-28.70	10.70	18.41	33.00	H
2527.60	2544.70	-20.80	-28.60	10.70	18.50	33.00	H
2545.10	2562.20	-20.94	-28.60	10.70	18.36	33.00	H

**LTE Band CA\_7C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	2529.80	-20.92	-28.70	10.70	18.48	33.00	H
2525.10	2544.90	-20.73	-28.60	10.70	18.57	33.00	H
2540.20	2560.00	-20.87	-28.60	10.70	18.43	33.00	H

**LTE Band CA\_38C - EIRP Part 27.50(h)(2)**

Limits: ≤33dBm (2W)

**LTE Band CA\_38C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-21.26	-28.70	10.70	18.14	33.00	V
2587.50	2602.50	-21.11	-28.60	10.70	18.19	33.00	V
2597.50	2612.50	-21.17	-28.50	10.70	18.03	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-21.30	-28.70	10.70	18.10	33.00	V
2585.10	2604.90	-21.15	-28.60	10.70	18.15	33.00	V
2590.20	2610.00	-21.30	-28.60	10.70	18.00	33.00	V

**LTE Band CA\_38C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2577.50	2592.50	-21.31	-28.70	10.70	18.09	33.00	V
2587.50	2602.50	-21.16	-28.60	10.70	18.14	33.00	V
2597.50	2612.50	-21.21	-28.50	10.70	17.99	33.00	V

**LTE Band CA\_38C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2580.00	2599.80	-21.37	-28.70	10.70	18.03	33.00	V
2585.10	2604.90	-21.22	-28.60	10.70	18.08	33.00	V
2590.20	2610.00	-21.37	-28.60	10.70	17.93	33.00	V





**LTE Band 41- EIRP Part 27.50(d)(2)**

**Limits:** ≤33dBm (2W)

**LTE Band CA\_41C\_5MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2499.30	2511.00	-21.01	-28.70	10.70	18.39	33.00	V
2583.80	2595.50	-20.14	-28.60	10.70	19.16	33.00	V
2668.30	2680.00	-20.93	-28.50	10.70	18.27	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.30	2513.30	-21.27	-28.70	10.70	18.13	33.00	V
2585.90	2597.90	-20.52	-28.60	10.70	18.78	33.00	V
2670.50	2682.50	-21.41	-28.60	10.70	17.89	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.50	2515.90	-21.04	-28.70	10.70	18.36	33.00	V
2583.60	2598.00	-20.18	-28.60	10.70	19.12	33.00	V
2665.60	2680.00	-21.06	-28.60	10.70	18.24	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2515.50	-21.26	-28.70	10.70	18.14	33.00	H
2588.10	2600.10	-20.51	-28.60	10.70	18.79	33.00	H
2672.70	2684.70	-21.39	-28.60	10.70	17.91	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2518.50	-21.19	-28.70	10.70	18.21	33.00	H
2585.50	2600.50	-20.44	-28.60	10.70	18.86	33.00	H
2667.50	2682.50	-21.32	-28.60	10.70	17.98	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.80	2520.90	-21.03	-28.70	10.70	18.37	33.00	H
2583.30	2600.40	-20.17	-28.60	10.70	19.13	33.00	H
2662.90	2680.00	-21.06	-28.60	10.70	18.24	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2517.70	-21.15	-28.70	10.70	18.25	33.00	H
2590.50	2602.20	-20.29	-28.60	10.70	19.01	33.00	H
2675.00	2686.70	-21.18	-28.60	10.70	18.12	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2520.40	-21.12	-28.70	10.70	18.28	33.00	H
2588.10	2602.50	-20.25	-28.60	10.70	19.05	33.00	H
2670.10	2684.50	-21.14	-28.60	10.70	18.16	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2523.10	-21.14	-28.70	10.70	18.26	33.00	H
2585.60	2602.70	-20.27	-28.60	10.70	19.03	33.00	H
2665.10	2682.20	-21.16	-28.60	10.70	18.14	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_QPSK**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2525.80	-21.20	-28.70	10.70	18.20	33.00	H
2583.10	2602.90	-20.45	-28.60	10.70	18.85	33.00	H
2660.20	2680.00	-21.34	-28.60	10.70	17.96	33.00	H

**LTE Band CA\_41C\_5MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2499.30	2511.00	-21.06	-28.70	10.70	18.34	33.00	V
2583.80	2595.50	-20.19	-28.60	10.70	19.11	33.00	V
2668.30	2680.00	-20.98	-28.50	10.70	18.22	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.30	2513.30	-21.32	-28.70	10.70	18.08	33.00	V
2585.90	2597.90	-20.57	-28.60	10.70	18.73	33.00	V
2670.50	2682.50	-21.45	-28.60	10.70	17.85	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.50	2515.90	-21.08	-28.70	10.70	18.32	33.00	V
2583.60	2598.00	-20.22	-28.60	10.70	19.08	33.00	V
2665.60	2680.00	-21.11	-28.60	10.70	18.19	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2515.50	-21.29	-28.70	10.70	18.11	33.00	H
2588.10	2600.10	-20.55	-28.60	10.70	18.75	33.00	H
2672.70	2684.70	-21.43	-28.60	10.70	17.87	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2518.50	-21.23	-28.70	10.70	18.17	33.00	H
2585.50	2600.50	-20.49	-28.60	10.70	18.81	33.00	H
2667.50	2682.50	-21.37	-28.60	10.70	17.93	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.80	2520.90	-21.09	-28.70	10.70	18.31	33.00	H
2583.30	2600.40	-20.23	-28.60	10.70	19.07	33.00	H
2662.90	2680.00	-21.11	-28.60	10.70	18.19	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2517.70	-21.24	-28.70	10.70	18.16	33.00	H
2590.50	2602.20	-20.38	-28.60	10.70	18.92	33.00	H
2675.00	2686.70	-21.27	-28.60	10.70	18.03	33.00	H

**LTE Band CA\_41C\_20MHz+10MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2520.40	-21.16	-28.70	10.70	18.24	33.00	H
2588.10	2602.50	-20.29	-28.60	10.70	19.01	33.00	H
2670.10	2684.50	-21.18	-28.60	10.70	18.12	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2523.10	-21.27	-28.70	10.70	18.13	33.00	H
2585.60	2602.70	-20.41	-28.60	10.70	18.89	33.00	H
2665.10	2682.20	-21.29	-28.60	10.70	18.01	33.00	H

**LTE Band CA\_41C\_20MHz+20MHz\_16QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2525.80	-21.25	-28.70	10.70	18.15	33.00	H
2583.10	2602.90	-20.50	-28.60	10.70	18.80	33.00	H
2660.20	2680.00	-21.38	-28.60	10.70	17.92	33.00	H

**ANALYZER SETTINGS:**

RBW = VBW = 8MHz for occupied bandwidths equal to or less than 5MHz.

RBW = VBW = 20MHz for occupied bandwidths equal to or greater than 10MHz.

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})$ ,  $k = 2$

**Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.**

## **A.2 FIELD STRENGTH OF SPURIOUS RADIATION**

### **Reference**

FCC: CFR 2.1053, 22.917, 24.238, 27.53,90.691.

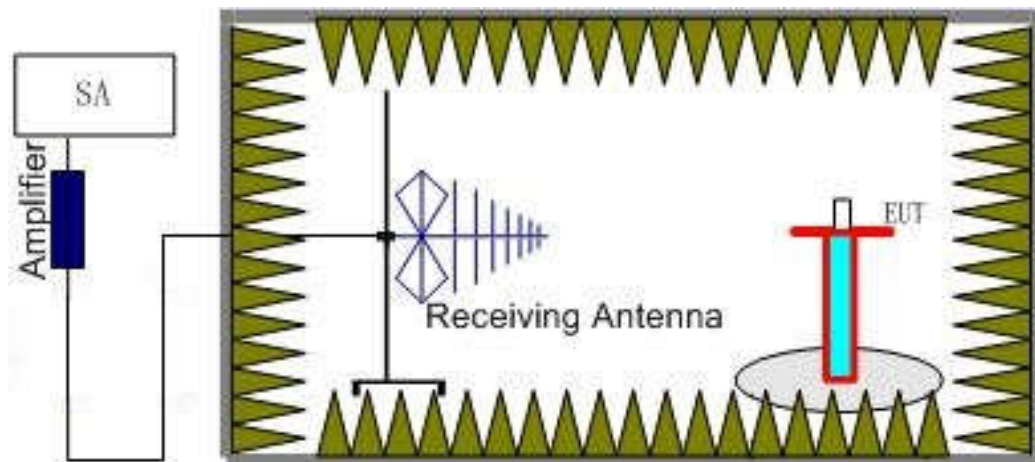
### **A.2.1 Measurement Method**

This measurement is carried out in fully-anechoic chamber FAC-3.

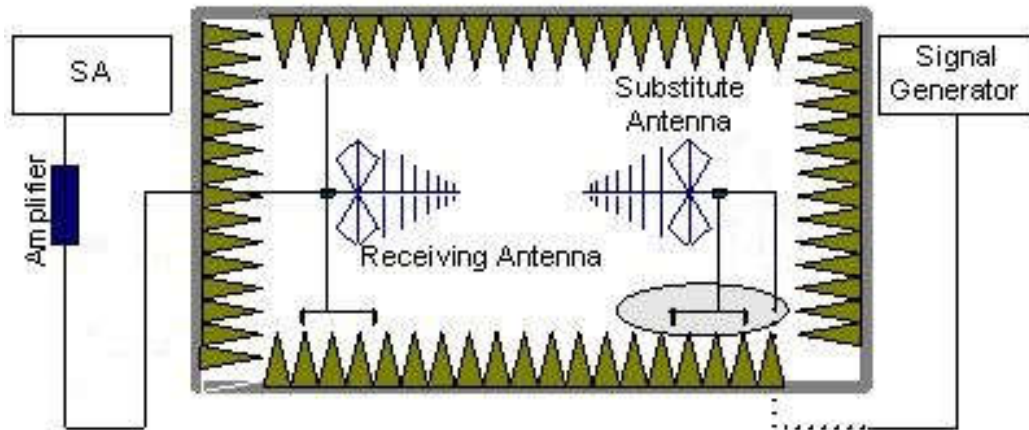
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917, 24.238, 27.53(h) and 90.691. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the all LTE Bands

### **The procedure of radiated spurious emissions is as follows:**

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss ( $P_{pl}$ ) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain(dBi) ( $G_a$ ) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss ( $P_{pl}$ ) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15dB$ .

### A.2.2 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the test LTE Bands. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the test LTE Bands. into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

Only worst case result is given below.

**Up antenna****LTE Band 2, 1.4MHz, QPSK, Channel 18607**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16941.25	-44.91	2.90	16.50	-31.31	-13.00	H
17184.38	-44.39	2.90	14.50	-32.79	-13.00	H
17354.38	-43.16	3.20	14.50	-31.86	-13.00	H
17463.12	-42.51	2.90	14.50	-30.91	-13.00	H
17593.12	-39.60	3.30	12.80	-30.10	-13.00	H
17776.25	-40.29	3.60	12.80	-31.09	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16981.25	-45.84	2.90	16.50	-32.24	-13.00	H
17130.00	-43.98	2.90	14.50	-32.38	-13.00	H
17361.25	-43.43	3.20	14.50	-32.13	-13.00	H
17468.12	-41.77	2.90	14.50	-30.17	-13.00	H
17573.75	-39.61	3.30	12.80	-30.11	-13.00	H
17839.38	-40.17	3.60	12.80	-30.97	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16896.88	-45.73	2.90	16.50	-32.13	-13.00	H
16933.12	-45.35	2.90	16.50	-31.75	-13.00	H
17173.75	-43.12	2.90	14.50	-31.52	-13.00	H
17504.38	-40.49	2.90	12.80	-30.59	-13.00	H
17616.88	-39.78	3.30	12.80	-30.28	-13.00	H
17771.25	-40.35	3.60	12.80	-31.15	-13.00	H

**LTE Band 2, 1.4MHz, 16QAM, Channel 18607**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16995.62	-45.21	2.90	16.50	-31.61	-13.00	H
17209.38	-44.15	2.90	14.50	-32.55	-13.00	H
17328.12	-43.94	3.20	14.50	-32.64	-13.00	H
17458.12	-42.11	2.90	14.50	-30.51	-13.00	H
17527.50	-40.48	2.90	12.80	-30.58	-13.00	H
17827.50	-40.32	3.60	12.80	-31.12	-13.00	H

**LTE Band 2, 1.4MHz, 16QAM, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16957.50	-44.75	2.90	16.50	-31.15	-13.00	H
17135.62	-44.42	2.90	14.50	-32.82	-13.00	H
17293.75	-43.52	3.20	14.50	-32.22	-13.00	H
17430.00	-41.94	2.90	14.50	-30.34	-13.00	H
17620.62	-39.52	3.30	12.80	-30.02	-13.00	H
17766.88	-40.54	3.60	12.80	-31.34	-13.00	H

**LTE Band 2, 1.4MHz, 16QAM, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16945.00	-45.80	2.90	16.50	-32.20	-13.00	H
17186.88	-43.64	2.90	14.50	-32.04	-13.00	H
17281.25	-43.17	3.20	14.50	-31.87	-13.00	H
17511.88	-40.43	2.90	12.80	-30.53	-13.00	H
17590.00	-40.08	3.30	12.80	-30.58	-13.00	H
17760.00	-40.55	3.60	12.80	-31.35	-13.00	H



**LTE Band 4, 1.4MHz, QPSK, Channel 19957**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16958.75	-45.38	2.90	16.50	-31.78	-13.00	H
17206.88	-43.07	2.90	14.50	-31.47	-13.00	H
17275.00	-43.36	3.20	14.50	-32.06	-13.00	H
17456.25	-42.21	2.90	14.50	-30.61	-13.00	H
17576.88	-40.46	3.30	12.80	-30.96	-13.00	H
17818.12	-40.45	3.60	12.80	-31.25	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20175**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16961.25	-45.72	2.90	16.50	-32.12	-13.00	H
17193.75	-43.75	2.90	14.50	-32.15	-13.00	H
17360.00	-43.75	3.20	14.50	-32.45	-13.00	H
17454.38	-41.99	2.90	14.50	-30.39	-13.00	H
17571.25	-39.70	3.30	12.80	-30.20	-13.00	H
17837.50	-40.07	3.60	12.80	-30.87	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20393**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16948.12	-45.69	2.90	16.50	-32.09	-13.00	H
17159.38	-43.53	2.90	14.50	-31.93	-13.00	H
17215.62	-43.41	3.20	14.50	-32.11	-13.00	H
17508.12	-40.95	2.90	12.80	-31.05	-13.00	H
17585.00	-39.22	3.30	12.80	-29.72	-13.00	H
17803.75	-40.24	3.60	12.80	-31.04	-13.00	H