BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
1.4MHz	20407	824.7	QPSK	1	0	0	24.03
				1	2	0	23.88
				1	5	0	24.04
				3	0	0	24.07
				3	1	0	24.00
				3	2	0	24.03
				6	0	1	23.17
			16QAM	1	0	1	22.98
				1	2	1	23.11
				1	5	1	23.07
				3	0	1	22.77
				3	1	1	22.78
				3	2	1	22.83
				6	0	2	22.17
	20525	836.5	QPSK	1	0	0	24.30
				1	2	0	24.58
				1	5	0	24.49
				3	0	0	24.38
				3	1	0	24.38
				3	2	0	24.34
				6	0	1	23.37
			16QAM	1	0	1	23.42
				1	2	1	23.65
				1	5	1	23.52
				3	0	1	23.11
				3	1	1	23.10
				3	2	1	23.08
				6	0	2	22.35
	20643	848.3	QPSK	1	0	0	24.30
				1	2	0	24.72
				1	5	0	24.40
				3	0	0	24.44
				3	1	0	24.44
				3	2	0	24.43
				6	0	1	23.41
			16QAM	1	0	1	23.25
				1	2	1	23.66
				1	5	1	23.34
				3	0	1	23.36
				3	1	1	23.36
				3	2	1	23.41
				6	0	2	22.33

LTE Band 12

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	23060	704.0	QPSK	1	0	0	24.42
				1	24	0	24.49
				1	49	0	23.62
				25	0	1	23.49
				25	12	1	23.42
				25	25	1	23.19
				50	0	1	23.27
			16QAM	1	0	1	23.40
				1	24	1	23.56
				1	49	1	22.70
				25	0	2	22.59
				25	12	2	22.36
				25	25	2	22.06
				50	0	2	22.23
	23095	707.5	QPSK	1	0	0	24.31
				1	24	0	23.77
				1	49	0	23.42
				25	0	1	23.31
				25	12	1	23.32
				25	25	1	22.73
				50	0	1	22.89
			16QAM	1	0	1	23.49
				1	24	1	22.94
				1	49	1	22.50
				25	0	2	22.35
				25	12	2	22.36
				25	25	2	21.95
				50	0	2	21.94
	23130	711.0	QPSK	1	0	0	23.96
				1	24	0	23.63
				1	49	0	23.45
				25	0	1	22.74
				25	12	1	22.76
				25	25	1	22.44
				50	0	1	22.56
			16QAM	1	0	1	23.03
				1	24	1	22.71
				1	49	1	22.52
				25	0	2	21.81
				25	12	2	21.71
				25	25	2	21.59
				50	0	2	21.70

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	23035	701.5	QPSK	1	0	0	24.55
				1	12	0	24.52
				1	24	0	24.40
				12	0	1	23.55
				12	6	1	23.55
				12	13	1	23.55
				25	0	1	23.50
			16QAM	1	0	1	23.37
				1	12	1	23.58
				1	24	1	23.01
				12	0	2	22.32
				12	6	2	22.52
				12	13	2	22.56
				25	0	2	22.63
	23095	707.5	QPSK	1	0	0	24.39
				1	12	0	23.87
				1	24	0	23.63
				12	0	1	23.18
				12	6	1	23.08
				12	13	1	22.71
				25	0	1	22.89
			16QAM	1	0	1	23.22
				1	12	1	22.69
				1	24	1	22.48
				12	0	2	22.27
				12	6	2	22.28
				12	13	2	21.81
				25	0	2	21.99
	23155	713.5	QPSK	1	0	0	23.45
				1	12	0	23.40
				1	24	0	23.35
				12	0	1	22.43
				12	6	1	22.45
				12	13	1	22.37
				25	0	1	22.34
			16QAM	1	0	1	22.54
				1	12	1	22.31
				1	24	1	22.38
				12	0	2	21.42
				12	6	2	21.33
				12	13	2	21.27
				25	0	2	21.31

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
3MHz	23025	700.5	QPSK	1	0	0	24.48
				1	7	0	24.60
				1	14	0	24.47
				8	0	1	23.59
				8	4	1	23.60
				8	7	1	23.57
				15	0	1	23.62
			16QAM	1	0	1	23.62
				1	7	1	23.58
				1	14	1	23.61
				8	0	2	22.44
				8	4	2	22.44
				8	7	2	22.70
				15	0	2	22.47
	23095	707.5	QPSK	1	0	0	24.04
				1	7	0	23.88
				1	14	0	23.95
				8	0	1	23.04
				8	4	1	23.05
				8	7	1	22.86
				15	0	1	22.92
			16QAM	1	0	1	22.76
				1	7	1	22.60
				1	14	1	22.63
				8	0	2	22.25
				8	4	2	21.85
				8	7	2	21.76
				15	0	2	21.85
	23165	714.5	QPSK	1	0	0	23.61
				1	7	0	23.27
				1	14	0	23.46
				8	0	1	22.58
				8	4	1	22.51
				8	7	1	22.48
				15	0	1	22.38
			16QAM	1	0	1	22.59
				1	7	1	22.30
				1	14	1	22.57
				8	0	2	21.42
				8	4	2	21.72
				8	7	2	21.34
				15	0	2	21.35

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
1.4MHz	23017	699.7	QPSK	1	0	0	24.38
				1	2	0	24.45
				1	5	0	24.43
				3	0	0	24.49
				3	1	0	24.65
				3	2	0	24.44
				6	0	1	23.58
			16QAM	1	0	1	23.44
				1	2	1	23.98
				1	5	1	23.75
				3	0	1	22.97
				3	1	1	23.06
				3	2	1	23.05
				6	0	2	22.69
	23095	707.5	QPSK	1	0	0	24.00
				1	2	0	24.16
				1	5	0	24.14
				3	0	0	23.98
				3	1	0	23.98
				3	2	0	23.85
				6	0	1	22.92
			16QAM	1	0	1	22.86
				1	2	1	23.17
				1	5	1	22.79
				3	0	1	22.90
				3	1	1	22.72
				3	2	1	22.76
				6	0	2	21.69
	23173	715.3	QPSK	1	0	0	24.87
				1	2	0	24.91
				1	5	0	24.67
				3	0	0	24.59
				3	1	0	24.59
				3	2	0	24.63
				6	0	1	23.82
			16QAM	1	0	1	23.97
				1	2	1	24.08
				1	5	1	23.81
				3	0	1	23.36
				3	1	1	23.36
				3	2	1	23.52
				6	0	2	22.55

LTE Band 13

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	23230	782.0	QPSK	1	0	0	23.22
				1	24	0	23.31
				1	49	0	23.51
				25	0	1	22.21
				25	12	1	22.21
				25	25	1	22.45
				50	0	1	22.30
			16QAM	1	0	1	22.26
				1	24	1	22.48
				1	49	1	22.55
				25	0	2	21.26
				25	12	2	21.16
				25	25	2	21.42
				50	0	2	21.27

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	23205	779.5	QPSK	1	0	0	22.93
				1	12	0	23.34
				1	24	0	23.63
				12	0	1	22.13
				12	6	1	22.13
				12	13	1	22.33
				25	0	1	22.19
			16QAM	1	0	1	22.05
				1	12	1	22.22
				1	24	1	22.10
				12	0	2	21.21
				12	6	2	20.91
				12	13	2	21.32
				25	0	2	21.19
	23230	782.0	QPSK	1	0	0	23.41
				1	12	0	23.36
				1	24	0	23.66
				12	0	1	22.26
				12	6	1	22.27
				12	13	1	22.39
				25	0	1	22.30
			16QAM	1	0	1	22.06
				1	12	1	22.44
				1	24	1	22.31
				12	0	2	21.40
				12	6	2	21.41
				12	13	2	21.54
				25	0	2	21.25
	23255	784.5	QPSK	1	0	0	23.16
				1	12	0	23.47
				1	24	0	23.49
				12	0	1	22.37
				12	6	1	22.38
				12	13	1	22.54
				25	0	1	22.42
			16QAM	1	0	1	22.47
				1	12	1	22.47
				1	24	1	22.50
				12	0	2	21.29
				12	6	2	21.21
				12	13	2	21.45
				25	0	2	21.35

LTE Band 14

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	23330	782.0	QPSK	1	0	0	25.04
				1	24	0	25.15
				1	49	0	24.73
				25	0	1	24.13
				25	12	1	24.14
				25	25	1	23.99
				50	0	1	24.14
			16QAM	1	0	1	24.06
				1	24	1	24.21
				1	49	1	23.86
				25	0	2	23.01
				25	12	2	23.11
				25	25	2	22.98
				50	0	2	23.01

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	23305	790.5	QPSK	1	0	0	25.26
				1	12	0	25.17
				1	24	0	25.06
				12	0	1	24.14
				12	6	1	24.14
				12	13	1	24.09
				25	0	1	24.17
			16QAM	1	0	1	24.18
				1	12	1	23.94
				1	24	1	23.91
				12	0	2	22.95
				12	6	2	22.74
				12	13	2	23.09
				25	0	2	23.09
	23330	793.0	QPSK	1	0	0	25.10
				1	12	0	25.14
				1	24	0	25.19
				12	0	1	24.13
				12	6	1	24.12
				12	13	1	24.07
				25	0	1	24.11
			16QAM	1	0	1	23.98
				1	12	1	24.07
				1	24	1	24.00
				12	0	2	23.09
				12	6	2	23.08
				12	13	2	23.04
				25	0	2	23.09
	23355	795.5	QPSK	1	0	0	24.98
				1	12	0	24.96
				1	24	0	24.92
				12	0	1	24.04
				12	6	1	24.16
				12	13	1	24.00
				25	0	1	23.94
			16QAM	1	0	1	24.04
				1	12	1	24.05
				1	24	1	24.53
				12	0	2	22.80
				12	6	2	22.98
				12	13	2	22.80
				25	0	2	22.86

LTE Band 66

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
20MHz	132072	1720.0	QPSK	1	0	0	24.02
				1	49	0	23.69
				1	99	0	24.09
				50	0	1	22.88
				50	25	1	22.79
				50	49	1	22.78
				100	0	1	22.85
			16QAM	1	0	1	23.14
				1	49	1	22.94
				1	99	1	23.05
				50	0	2	21.95
				50	25	2	21.96
				50	49	2	21.99
				100	0	2	21.92
	132322	1745.0	QPSK	1	0	0	23.69
				1	49	0	23.79
				1	99	0	23.51
				50	0	1	22.71
				50	25	1	22.71
				50	49	1	22.42
				100	0	1	22.67
			16QAM	1	0	1	22.75
				1	49	1	22.78
				1	99	1	22.58
				50	0	2	21.79
				50	25	2	21.79
				50	49	2	21.64
				100	0	2	21.75
	132572	1770.0	QPSK	1	0	0	23.50
				1	49	0	23.46
				1	99	0	23.05
				50	0	1	22.44
				50	25	1	22.44
				50	49	1	22.27
				100	0	1	22.28
			16QAM	1	0	1	23.00
				1	49	1	23.02
				1	99	1	22.57
				50	0	2	21.65
				50	25	2	21.55
				50	49	2	21.30
				100	0	2	21.36

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
15MHz	132047	1717.5	QPSK	1	0	0	24.09
				1	37	0	23.81
				1	74	0	23.44
				36	0	1	23.16
				36	16	1	22.69
				36	35	1	22.81
				75	0	1	22.86
			16QAM	1	0	1	23.12
				1	37	1	22.70
				1	74	1	22.72
				36	0	2	23.16
				36	16	2	22.69
				36	35	2	22.71
				75	0	2	21.91
	132322	1745.0	QPSK	1	0	0	23.60
				1	37	0	23.28
				1	74	0	23.54
				36	0	1	22.86
				36	16	1	22.37
				36	35	1	22.48
				75	0	1	22.44
			16QAM	1	0	1	22.68
				1	37	1	22.38
				1	74	1	22.48
				36	0	2	22.75
				36	16	2	22.37
				36	35	2	22.48
				75	0	2	21.51
	132597	1772.5	QPSK	1	0	0	23.32
				1	37	0	23.19
				1	74	0	22.87
				36	0	1	22.41
				36	16	1	22.28
				36	35	1	21.35
				75	0	1	22.28
			16QAM	1	0	1	22.48
				1	37	1	22.28
				1	74	1	21.96
				36	0	2	22.41
				36	16	2	22.28
				36	35	2	21.35
				75	0	2	21.39

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	132022	1715.0	QPSK	1	0	0	24.08
				1	24	0	23.95
				1	49	0	23.50
				25	0	1	23.05
				25	12	1	22.96
				25	25	1	22.77
				50	0	1	22.94
			16QAM	1	0	1	23.24
				1	24	1	23.05
				1	49	1	22.75
				25	0	2	21.91
				25	12	2	22.09
				25	25	2	21.81
				50	0	2	21.92
	132322	1745.0	QPSK	1	0	0	23.60
				1	24	0	23.47
				1	49	0	23.16
				25	0	1	22.68
				25	12	1	22.56
				25	25	1	22.36
				50	0	1	22.47
			16QAM	1	0	1	22.77
				1	24	1	22.49
				1	49	1	22.45
				25	0	2	21.61
				25	12	2	21.53
				25	25	2	21.33
				50	0	2	21.54
	132622	1775.0	QPSK	1	0	0	23.27
				1	24	0	23.20
				1	49	0	22.88
				25	0	1	22.36
				25	12	1	22.37
				25	25	1	22.01
				50	0	1	22.15
			16QAM	1	0	1	22.31
				1	24	1	22.35
				1	49	1	21.69
				25	0	2	21.44
				25	12	2	21.46
				25	25	2	21.03
				50	0	2	21.26

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	131997	1712.5	QPSK	1	0	0	24.17
				1	12	0	23.99
				1	24	0	23.77
				12	0	1	23.17
				12	6	1	23.08
				12	11	1	22.93
				25	0	1	22.96
			16QAM	1	0	1	23.19
				1	12	1	22.97
				1	24	1	22.86
				12	0	2	22.22
				12	6	2	22.14
				12	11	2	22.08
				25	0	2	22.04
	132322	1745.0	QPSK	1	0	0	23.65
				1	12	0	23.49
				1	24	0	23.38
				12	0	1	22.72
				12	6	1	22.64
				12	11	1	22.40
				25	0	1	22.51
			16QAM	1	0	1	22.25
				1	12	1	22.21
				1	24	1	22.11
				12	0	2	21.70
				12	6	2	21.71
				12	11	2	21.48
				25	0	2	21.61
	132647	1777.5	QPSK	1	0	0	23.26
				1	12	0	22.94
				1	24	0	23.07
				12	0	1	22.24
				12	6	1	22.20
				12	11	1	22.06
				25	0	1	22.08
			16QAM	1	0	1	22.06
				1	12	1	22.13
				1	24	1	21.85
				12	0	2	21.18
				12	6	2	21.35
				12	11	2	21.13
				25	0	2	21.17

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
3MHz	131987	1711.5	QPSK	1	0	0	24.17
				1	7	0	24.03
				1	14	0	24.01
				8	0	1	23.31
				8	4	1	23.31
				8	7	1	23.20
				15	0	1	23.30
			16QAM	1	0	1	22.83
				1	7	1	23.03
				1	14	1	22.62
				8	0	2	22.39
				8	4	2	22.39
				8	7	2	22.29
				15	0	2	22.39
	132322	1745.0	QPSK	1	0	0	23.63
				1	7	0	23.42
				1	14	0	23.36
				8	0	1	22.56
				8	4	1	22.56
				8	7	1	22.42
				15	0	1	22.53
			16QAM	1	0	1	22.71
				1	7	1	22.52
				1	14	1	22.23
				8	0	2	21.56
				8	4	2	21.76
				8	7	2	21.43
				15	0	2	21.56
	132657	1778.5	QPSK	1	0	0	23.07
				1	7	0	22.92
				1	14	0	23.00
				8	0	1	22.18
				8	4	1	22.19
				8	7	1	21.97
				15	0	1	22.03
			16QAM	1	0	1	22.23
				1	7	1	21.73
				1	14	1	21.68
				8	0	2	21.01
				8	4	2	21.18
				8	7	2	21.10
				15	0	2	21.05

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
1.4MHz	131979	1710.7	QPSK	1	0	0	24.44
				1	2	0	24.29
				1	5	0	24.23
				3	0	0	24.24
				3	1	0	24.33
				3	2	0	24.20
				6	0	1	23.24
			16QAM	1	0	1	23.28
				1	2	1	23.44
				1	5	1	23.25
				3	0	1	22.67
				3	1	1	22.79
				3	2	1	22.78
				6	0	2	22.13
	132322	1745.0	QPSK	1	0	0	23.47
				1	2	0	23.43
				1	5	0	23.46
				3	0	0	23.51
				3	1	0	23.41
				3	2	0	23.43
				6	0	1	22.46
			16QAM	1	0	1	22.52
				1	2	1	22.51
				1	5	1	22.50
				3	0	1	22.15
				3	1	1	22.15
				3	2	1	21.98
				6	0	2	21.36
	132665	1779.3	QPSK	1	0	0	22.99
				1	2	0	22.93
				1	5	0	22.87
				3	0	0	23.05
				3	1	0	23.06
				3	2	0	23.06
				6	0	1	22.02
			16QAM	1	0	1	21.92
				1	2	1	21.95
				1	5	1	21.76
				3	0	1	21.98
				3	1	1	22.06
				3	2	1	22.08
				6	0	2	21.01

LTE Band 71

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
20MHz	133222	673.0	QPSK	1	0	0	22.77
				1	49	0	23.24
				1	99	0	23.21
				50	0	1	21.70
				50	25	1	21.81
				50	49	1	22.02
				100	0	1	21.76
			16QAM	1	0	1	21.58
				1	49	1	22.16
				1	99	1	22.07
				50	0	2	20.90
				50	25	2	20.90
				50	49	2	20.96
				100	0	2	20.84
	133322	680.5	QPSK	1	0	0	22.79
				1	49	0	23.50
				1	99	0	23.62
				50	0	1	22.15
				50	25	1	22.08
				50	49	1	22.38
				100	0	1	22.34
			16QAM	1	0	1	21.92
				1	49	1	22.85
				1	99	1	22.60
				50	0	2	21.23
				50	25	2	21.23
				50	49	2	21.56
				100	0	2	21.31
	133372	688.0	QPSK	1	0	0	22.90
				1	49	0	23.85
				1	99	0	23.75
				50	0	1	22.20
				50	25	1	22.21
				50	49	1	22.63
				100	0	1	22.35
			16QAM	1	0	1	22.41
				1	49	1	23.07
				1	99	1	23.54
				50	0	2	21.30
				50	25	2	21.17
				50	49	2	21.74
				100	0	2	21.44

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
15MHz	133197	670.5	QPSK	1	0	0	22.65
				1	37	0	22.75
				1	74	0	22.85
				36	0	1	21.65
				36	16	1	22.38
				36	35	1	22.05
				75	0	1	21.80
			16QAM	1	0	1	21.75
				1	37	1	21.82
				1	74	1	21.97
				36	0	2	21.74
				36	16	2	22.38
				36	35	2	21.96
				75	0	2	20.96
	133297	680.5	QPSK	1	0	0	22.74
				1	37	0	22.81
				1	74	0	23.03
				36	0	1	21.91
				36	16	1	21.68
				36	35	1	21.30
				75	0	1	21.98
			16QAM	1	0	1	21.72
				1	37	1	21.87
				1	74	1	22.13
				36	0	2	21.46
				36	16	2	21.69
				36	35	2	21.56
				75	0	2	21.01
	133397	690.5	QPSK	1	0	0	22.99
				1	37	0	23.37
				1	74	0	23.81
				36	0	1	22.14
				36	16	1	22.47
				36	35	1	22.84
				75	0	1	22.46
			16QAM	1	0	1	22.39
				1	37	1	22.55
				1	74	1	22.84
				36	0	2	22.22
				36	16	2	22.47
				36	35	2	22.84
				75	0	2	21.44

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	133172	668.0	QPSK	1	0	0	22.97
				1	24	0	22.99
				1	49	0	23.07
				25	0	1	21.98
				25	12	1	21.89
				25	25	1	21.88
				50	0	1	21.89
			16QAM	1	0	1	21.96
				1	24	1	22.25
				1	49	1	21.87
				25	0	2	20.86
				25	12	2	20.86
				25	25	2	20.96
				50	0	2	20.97
	133297	680.5	QPSK	1	0	0	22.98
				1	24	0	23.14
				1	49	0	23.20
				25	0	1	22.08
				25	12	1	21.99
				25	25	1	22.15
				50	0	1	22.02
			16QAM	1	0	1	21.94
				1	24	1	22.07
				1	49	1	22.05
				25	0	2	21.08
				25	12	2	21.18
				25	25	2	21.26
				50	0	2	21.12
	133422	693.0	QPSK	1	0	0	23.30
				1	24	0	23.70
				1	49	0	23.83
				25	0	1	22.74
				25	12	1	22.74
				25	25	1	22.98
				50	0	1	22.82
			16QAM	1	0	1	22.78
				1	24	1	22.99
				1	49	1	22.86
				25	0	2	21.62
				25	12	2	21.71
				25	25	2	21.95
				50	0	2	21.90

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	133147	665.5	QPSK	1	0	0	22.77
				1	12	0	23.03
				1	24	0	22.97
				12	0	1	21.76
				12	6	1	21.76
				12	11	1	21.81
				25	0	1	21.76
			16QAM	1	0	1	21.84
				1	12	1	21.80
				1	24	1	21.93
				12	0	2	20.93
				12	6	2	20.93
				12	11	2	20.72
				25	0	2	21.04
	133297	680.5	QPSK	1	0	0	23.02
				1	12	0	22.94
				1	24	0	23.14
				12	0	1	21.93
				12	6	1	21.94
				12	11	1	21.94
				25	0	1	21.92
			16QAM	1	0	1	22.10
				1	12	1	21.71
				1	24	1	22.02
				12	0	2	20.79
				12	6	2	20.97
				12	11	2	21.17
				25	0	2	20.97
	133447	695.5	QPSK	1	0	0	23.68
				1	12	0	23.99
				1	24	0	23.77
				12	0	1	22.75
				12	6	1	22.67
				12	11	1	22.90
				25	0	1	22.69
			16QAM	1	0	1	22.13
				1	12	1	22.71
				1	24	1	22.51
				12	0	2	21.64
				12	6	2	21.74
				12	11	2	21.70
				25	0	2	21.98

8. RADIATED OUTPUT POWER

8.1 PROVISIONS APPLICABLE

The radiation test is carried out in a semi-anechoic chamber.

According to the test, put the device under test on a non-conductive platform 3 meters away from the receiving antenna (ANSI/TIA-603-E-2016 Article 2.2.17).

The following rules are for the maximum radiated power limit requirements of the product:

Mode	Nominal Peak Power
LTE Band 2	< 2 Watts max. EIRP (33dBm)
LTE Band 4	< 1 Watts max. EIRP (30dBm)
LTE Band 5	< 7 Watts max. ERP (38.45dBm)
LTE Band 12	< 3 Watts max. ERP (34.77dBm)
LTE Band 13	< 3 Watts max. ERP (34.77dBm)
LTE Band 14	< 3 Watts max. ERP (34.77dBm)
LTE Band 66	< 1 Watts max. EIRP (30dBm)
LTE Band 71	< 3 Watts max. ERP (34.77dBm)

8.2 MEASUREMENT METHOD

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

RADIATION CONSTRUCTION METHOD：

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

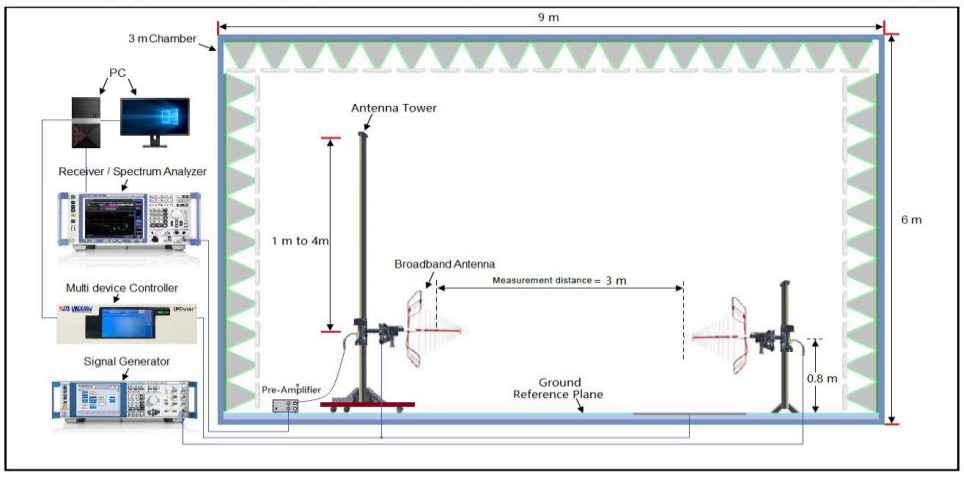
   The power is calculated by the following formula：

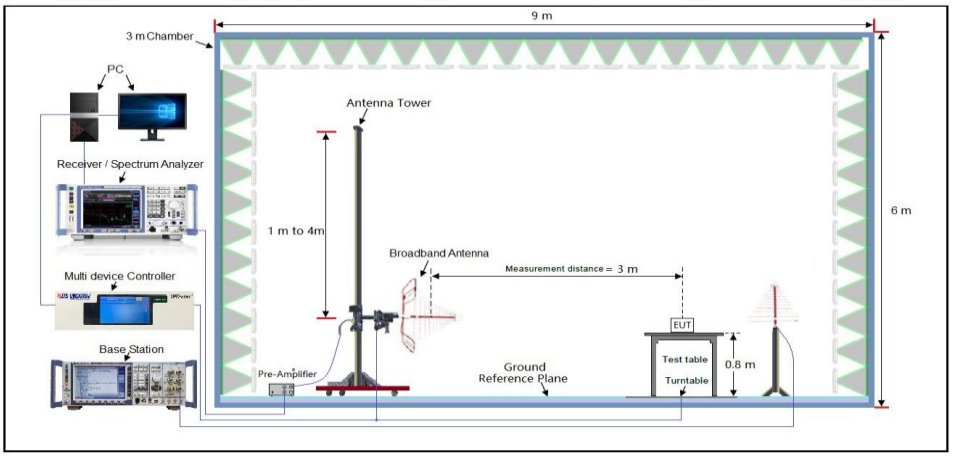
   Pd(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dB)

   Where: Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna.
3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes (X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

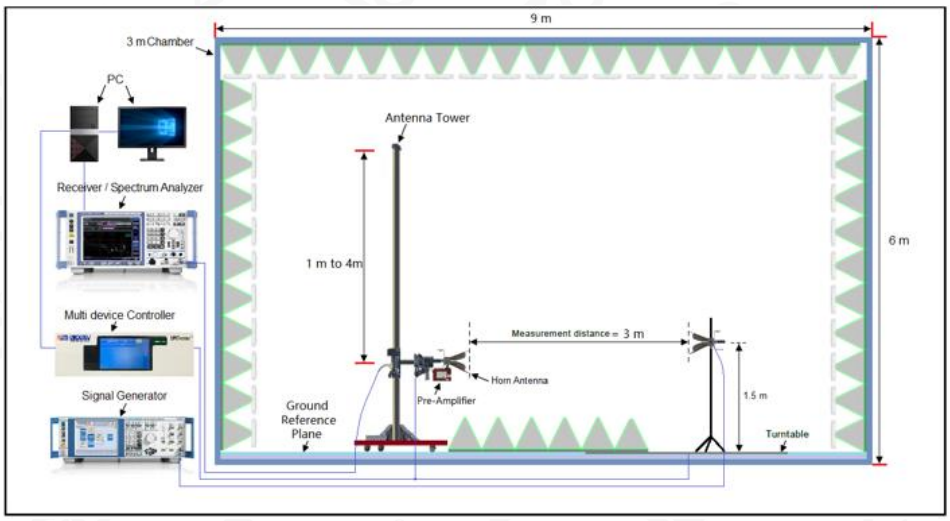
8.3 MEASUREMENT SETUP

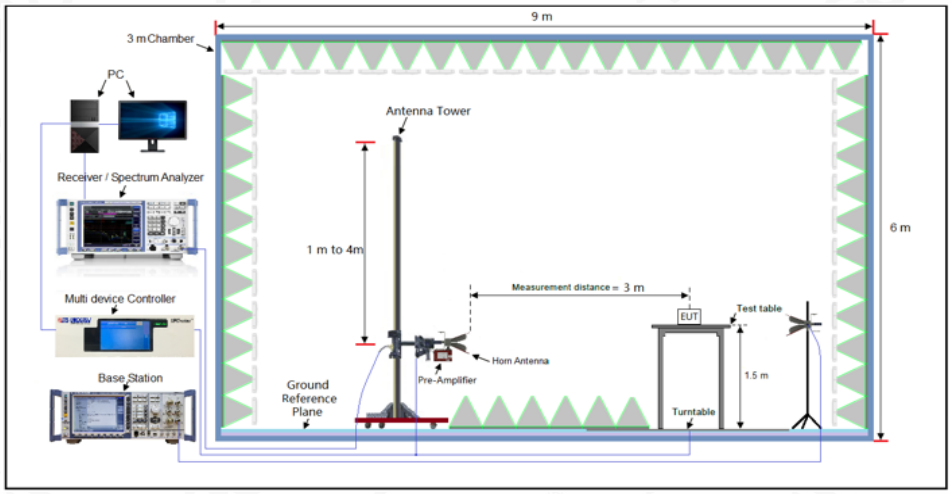
Radiated Power 30MHz to 1GHz Test setup





Radiated Power Above 1GHz Test setup





8.4 MEASUREMENT RESULT

EIRP for LTE Band 2

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
1850.7	1.4	QPSK	1/0	12.56	V	7.95	0.79	19.72	33
1880.0	1.4	QPSK	1/0	12.49	V	7.95	0.79	19.65	33
1909.3	1.4	QPSK	1/0	12.30	V	7.95	0.79	19.46	33
1850.7	1.4	QPSK	1/0	13.81	H	7.95	0.79	20.97	33
1880.0	1.4	QPSK	1/0	13.92	H	7.95	0.79	21.08	33
1909.3	1.4	QPSK	1/0	13.82	H	7.95	0.79	20.98	33
1850.7	1.4	16-QAM	1/5	11.47	V	7.95	0.79	18.63	33
1880.0	1.4	16-QAM	1/0	11.45	V	7.95	0.79	18.61	33
1909.3	1.4	16-QAM	1/0	11.54	V	7.95	0.79	18.70	33
1850.7	1.4	16-QAM	1/5	12.69	H	7.95	0.79	19.85	33
1880.0	1.4	16-QAM	1/0	12.87	H	7.95	0.79	20.03	33
1909.3	1.4	16-QAM	1/0	12.78	H	7.95	0.79	19.94	33
1851.5	3	QPSK	1/0	12.72	V	7.95	0.79	19.88	33
1880.0	3	QPSK	1/0	12.89	V	7.95	0.79	20.05	33
1908.5	3	QPSK	1/0	11.86	V	7.95	0.79	19.02	33
1851.5	3	QPSK	1/0	14.04	H	7.95	0.79	21.20	33
1880.0	3	QPSK	1/0	14.10	H	7.95	0.79	21.26	33
1908.5	3	QPSK	1/0	13.33	H	7.95	0.79	20.49	33
1851.5	3	16-QAM	1/0	11.64	V	7.95	0.79	18.80	33
1880.0	3	16-QAM	1/0	11.32	V	7.95	0.79	18.48	33
1908.5	3	16-QAM	1/0	11.54	V	7.95	0.79	18.70	33
1851.5	3	16-QAM	1/0	13.00	H	7.95	0.79	20.16	33
1880.0	3	16-QAM	1/0	12.56	H	7.95	0.79	19.72	33
1908.5	3	16-QAM	1/0	12.95	H	7.95	0.79	20.11	33
1852.5	5	QPSK	1/0	12.27	V	7.95	0.79	19.43	33
1880.0	5	QPSK	1/0	12.51	V	7.95	0.79	19.67	33
1907.5	5	QPSK	1/24	12.24	V	7.95	0.79	19.40	33
1852.5	5	QPSK	1/0	13.49	H	7.95	0.79	20.65	33
1880.0	5	QPSK	1/0	13.61	H	7.95	0.79	20.77	33
1907.5	5	QPSK	1/24	13.48	H	7.95	0.79	20.64	33
1852.5	5	16-QAM	1/0	11.25	V	7.95	0.79	18.41	33
1880.0	5	16-QAM	1/0	11.18	V	7.95	0.79	18.34	33

1907.5	5	16-QAM	1/24	11.53	V	7.95	0.79	18.69	33
1852.5	5	16-QAM	1/0	12.49	H	7.95	0.79	19.65	33
1880.0	5	16-QAM	1/0	12.54	H	7.95	0.79	19.70	33
1907.5	5	16-QAM	1/24	12.78	H	7.95	0.79	19.94	33
1855	10	QPSK	1/0	11.03	V	7.95	0.79	18.19	33
1880	10	QPSK	1/49	11.30	V	7.95	0.79	18.46	33
1905	10	QPSK	1/0	11.11	V	7.95	0.79	18.27	33
1855	10	QPSK	1/0	12.32	H	7.95	0.79	19.48	33
1880	10	QPSK	1/49	12.54	H	7.95	0.79	19.70	33
1905	10	QPSK	1/0	12.45	H	7.95	0.79	19.61	33
1855	10	16-QAM	1/0	11.37	V	7.95	0.79	18.53	33
1880	10	16-QAM	1/49	11.14	V	7.95	0.79	18.30	33
1905	10	16-QAM	1/0	11.40	V	7.95	0.79	18.56	33
1855	10	16-QAM	1/0	12.61	H	7.95	0.79	19.77	33
1880	10	16-QAM	1/49	12.50	H	7.95	0.79	19.66	33
1905	10	16-QAM	1/0	12.64	H	7.95	0.79	19.80	33
1857.5	15	QPSK	1/0	11.56	V	7.95	0.79	18.72	33
1880	15	QPSK	1/74	11.38	V	7.95	0.79	18.54	33
1902.5	15	QPSK	1/0	11.40	V	7.95	0.79	18.56	33
1857.5	15	QPSK	1/0	12.69	H	7.95	0.79	19.85	33
1880	15	QPSK	1/74	12.74	H	7.95	0.79	19.90	33
1902.5	15	QPSK	1/0	12.61	H	7.95	0.79	19.77	33
1857.5	15	16-QAM	1/0	11.43	V	7.95	0.79	18.59	33
1880	15	16-QAM	1/74	11.38	V	7.95	0.79	18.54	33
1902.5	15	16-QAM	1/0	11.42	V	7.95	0.79	18.58	33
1857.5	15	16-QAM	1/0	12.76	H	7.95	0.79	19.92	33
1880	15	16-QAM	1/74	12.62	H	7.95	0.79	19.78	33
1902.5	15	16-QAM	1/0	12.97	H	7.95	0.79	20.13	33
1860	20	QPSK	1/99	10.92	V	7.95	0.79	18.08	33
1880	20	QPSK	1/99	11.65	V	7.95	0.79	18.81	33
1900	20	QPSK	1/0	10.90	V	7.95	0.79	18.06	33
1860	20	QPSK	1/99	12.16	H	7.95	0.79	19.32	33
1880	20	QPSK	1/99	12.98	H	7.95	0.79	20.14	33
1900	20	QPSK	1/0	12.15	H	7.95	0.79	19.31	33
1860	20	16-QAM	1/99	10.77	V	7.95	0.79	17.93	33
1880	20	16-QAM	1/99	12.47	V	7.95	0.79	19.63	33

1900	20	16-QAM	1/0	12.63	V	7.95	0.79	19.79	33
1860	20	16-QAM	1/99	11.97	H	7.95	0.79	19.13	33
1880	20	16-QAM	1/99	13.72	H	7.95	0.79	20.88	33
1900	20	16-QAM	1/0	13.97	H	7.95	0.79	21.13	33

EIRP for LTE Band 4

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
1710.7	1.4	QPSK	1/0	14.12	V	7.95	0.79	21.28	30
1732.5	1.4	QPSK	1/0	13.60	V	7.95	0.79	20.76	30
1754.3	1.4	QPSK	1/0	13.87	V	7.95	0.79	21.03	30
1710.7	1.4	QPSK	1/0	15.37	H	7.95	0.79	22.53	30
1732.5	1.4	QPSK	1/0	15.03	H	7.95	0.79	22.19	30
1754.3	1.4	QPSK	1/0	15.39	H	7.95	0.79	22.55	30
1710.7	1.4	16-QAM	1/5	13.36	V	7.95	0.79	20.52	30
1732.5	1.4	16-QAM	1/0	12.75	V	7.95	0.79	19.91	30
1754.3	1.4	16-QAM	1/0	12.79	V	7.95	0.79	19.95	30
1710.7	1.4	16-QAM	1/5	14.58	H	7.95	0.79	21.74	30
1732.5	1.4	16-QAM	1/0	14.17	H	7.95	0.79	21.33	30
1754.3	1.4	16-QAM	1/0	14.03	H	7.95	0.79	21.19	30
1711.5	3	QPSK	1/0	12.98	V	7.95	0.79	20.14	30
1732.5	3	QPSK	1/0	13.73	V	7.95	0.79	20.89	30
1753.5	3	QPSK	1/0	13.45	V	7.95	0.79	20.61	30
1711.5	3	QPSK	1/0	14.30	H	7.95	0.79	21.46	30
1732.5	3	QPSK	1/0	14.94	H	7.95	0.79	22.10	30
1753.5	3	QPSK	1/0	14.92	H	7.95	0.79	22.08	30
1711.5	3	16-QAM	1/0	12.09	V	7.95	0.79	19.25	30
1732.5	3	16-QAM	1/0	12.53	V	7.95	0.79	19.69	30
1753.5	3	16-QAM	1/0	12.11	V	7.95	0.79	19.27	30
1711.5	3	16-QAM	1/0	13.45	H	7.95	0.79	20.61	30
1732.5	3	16-QAM	1/0	13.77	H	7.95	0.79	20.93	30
1753.5	3	16-QAM	1/0	13.52	H	7.95	0.79	20.68	30
1712.5	5	QPSK	1/0	13.62	V	7.95	0.79	20.78	30
1732.5	5	QPSK	1/0	13.48	V	7.95	0.79	20.64	30
1752.5	5	QPSK	1/24	13.27	V	7.95	0.79	20.43	30
1712.5	5	QPSK	1/0	14.84	H	7.95	0.79	22.00	30
1732.5	5	QPSK	1/0	14.58	H	7.95	0.79	21.74	30
1752.5	5	QPSK	1/24	14.51	H	7.95	0.79	21.67	30
1712.5	5	16-QAM	1/0	12.55	V	7.95	0.79	19.71	30
1732.5	5	16-QAM	1/0	12.35	V	7.95	0.79	19.51	30
1752.5	5	16-QAM	1/24	12.18	V	7.95	0.79	19.34	30
1712.5	5	16-QAM	1/0	13.79	H	7.95	0.79	20.95	30
1732.5	5	16-QAM	1/0	13.71	H	7.95	0.79	20.87	30
1752.5	5	16-QAM	1/24	13.43	H	7.95	0.79	20.59	30