































## Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.08	2.70	2.72	4.51	4.50	9.03	9.05	13.40	13.43	18.38	18.38
Middle CH	1.09	1.09	2.70	2.71	4.50	4.50	9.03	8.99	13.46	13.46	18.38	18.54
Highest CH	1.09	1.09	2.70	2.72	4.49	4.49	9.07	9.03	13.55	13.43	18.42	18.50
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.49		9.01		13.40		18.54	
Middle CH	1.09		2.72		4.50		9.03		13.46		18.46	
Highest CH	1.09		2.71		4.50		9.05		13.49		18.38	

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.72	4.78	4.49	9.01	9.05	13.40	13.49	18.30	18.54
Middle CH	1.10	1.09	2.71	2.72	4.78	4.48	9.11	9.03	13.46	13.43	18.38	18.34
Highest CH	1.09	1.09	2.72	2.70	4.49	4.47	9.03	9.05	13.46	13.49	18.42	18.34
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10		2.72		4.50		9.03		13.52		18.34	
Middle CH	1.09		2.70		4.49		8.97		13.46		18.42	
Highest CH	1.09		2.72		4.50		8.99		13.46		18.46	



Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.70	2.72	4.49	4.48	9.03	8.93	-	-	-	-
Middle CH	1.09	1.08	2.71	2.71	4.50	4.49	9.01	9.09	-	-	-	-
Highest CH	1.09	1.09	2.70	2.71	4.48	4.48	9.03	9.03	-	-	-	-

  

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10		2.72		4.49		9.01		-	-	-	-
Middle CH	1.09		2.70		4.50		9.05		-	-	-	-
Highest CH	1.09		2.71		4.49		9.01		-	-	-	-

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.49	9.01	9.07	13.49	13.46	18.30	18.38
Middle CH	-	-	-	-	4.47	4.49	9.07	8.99	13.40	13.40	18.30	18.30
Highest CH	-	-	-	-	4.49	4.49	9.07	9.03	13.43	13.46	18.46	18.34

  

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50		9.05		13.43		18.42	
Middle CH	-	-	-	-	4.49		9.05		13.46		18.30	
Highest CH	-	-	-	-	4.50		8.99		13.43		18.42	



Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.71	2.70	4.50	4.50	9.07	9.01	-	-	-	-
Middle CH	1.09	1.09	2.69	2.68	4.49	4.78	8.97	9.05	-	-	-	-
Highest CH	1.09	1.10	2.70	2.70	4.50	4.49	9.03	9.09	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.72		4.50		9.05		-		-	
Middle CH	1.09		2.70		4.50		9.01		-		-	
Highest CH	1.10		2.70		4.51		9.01		-		-	

