

	<b>√</b>						
LTE Band	26			Measured EIRP			
BW [MHz]	Modulation	RB	RB	Low	Middle	High	
באי וואון אאם	Woddiation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
	Channe	: <b> </b>		26805	26915	27025	
	Frequency (	MHz)		825.5	836.5	847.5	
3	QPSK	1	0	22.22	22.07	22.04	
3	QPSK	1	8	22.21	22.12	21.93	
3	QPSK	1	14	22.21	22.02	21.98	
3	QPSK	8	0	21.21	20.90	20.99	
3	QPSK	8	4	21.23	21.01	21.10	
3	QPSK	8	7	21.16	20.92	21.02	
3	QPSK	15	0	21.26	21.00	21.04	
3	16QAM	1	0	21.35	21.28	21.05	
3	16QAM	1	8	21.43	21.27	21.18	
3	16QAM	1	14	21.40	21.24	21.06	
3	16QAM	8	0	20.42	20.04	20.08	
3	16QAM	8	4	20.29	19.97	20.07	
3	16QAM	8	7	20.40	19.93	20.12	
3	16QAM	15	0	20.39	19.92	20.13	
3	64QAM	1	0	21.65	21.09	21.12	
3	64QAM	1	8	21.26	21.09	21.28	
3	64QAM	1	14	21.43	20.99	21.22	
3	64QAM	8	0	20.35	20.05	20.03	
3	64QAM	8	4	20.26	19.98	20.16	
3	64QAM	8	7	20.31	19.90	19.99	
3	64QAM	15	0	20.19	19.99	20.17	



	<b>4</b> 0						
LTE Band	26			Measured EIRP			
BW [MHz]	Modulation	RB	RB	Low	Middle	High	
באי וואון אאם	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
	Channe	:		26797	26915	27033	
	Frequency (	MHz)		824.7	836.5	848.3	
1.4	QPSK	1	0	22.04	21.87	21.86	
1.4	QPSK	1	3	22.18	21.90	22.06	
1.4	QPSK	1	5	22.14	21.82	22.01	
1.4	QPSK	3	0	22.19	21.94	22.02	
1.4	QPSK	3	1	22.23	22.02	22.02	
1.4	QPSK	3	3	22.17	21.95	22.01	
1.4	QPSK	6	0	21.15	20.90	20.97	
1.4	16QAM	1	0	21.53	21.27	20.87	
1.4	16QAM	1	3	21.58	21.38	20.90	
1.4	16QAM	1	5	21.56	20.95	20.86	
1.4	16QAM	3	0	21.14	20.99	21.03	
1.4	16QAM	3	1	21.21	20.97	21.06	
1.4	16QAM	3	3	21.18	20.99	20.84	
1.4	16QAM	6	0	20.32	20.14	20.04	
1.4	64QAM	1	0	21.05	20.95	21.13	
1.4	64QAM	1	3	21.22	21.35	21.41	
1.4	64QAM	1	5	21.29	21.26	21.21	
1.4	64QAM	3	0	21.23	21.00	21.13	
1.4	64QAM	3	1	21.37	21.08	21.05	
1.4	64QAM	3	3	21.33	21.01	21.00	
1.4	64QAM	6	0	20.28	20.01	20.13	

Tel: 86-755-36698555



LTE Band	d 30			Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
[]	Channe		0.1331	/	27710	/	
	Frequency (I				2310	/	
10	QPSK	1	0		23.95	/	
10	QPSK	<u>·</u> 1	25		23.75	,	
10	QPSK	1	49		23.90	/	
10	QPSK	25	0	/	23.00	/	
10	QPSK	25	12	1	22.95	/	
10	QPSK	25	25	/	22.93	/	
10	QPSK	50	0	/	22.93	/	
10	16QAM	1	0	/	23.58	/	
10	16QAM	1	25	1	23.37	/	
10	16QAM	1	49	1	22.95	/	
10	16QAM	25	0	/	22.11	/	
10	16QAM	25	12	/	21.98	/	
10	16QAM	25	25	/	21.91	/	
10	16QAM	50	0	/	21.99	/	
10	64QAM	1	0	1	23.27	/	
10	64QAM	1	25	/	22.98	/	
10	64QAM	1	49	/	22.95	/	
10	64QAM	25	0	1	21.88	/	
10	64QAM	25	12	/	21.94	/	
10	64QAM	25	25	1	21.88	/	
10	64QAM	50	0	/	21.98	/	

Tel: 86-755-36698555



	1.00						
LTE Band	30			Measured EIRP			
BW	Modulation	RB	RB	Low	Middle	High	
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
	Channe	I		27685	27710	27735	
	Frequency (I	MHz)		2307.5	2310	2312.5	
5	QPSK	1	0	23.90	23.95	23.82	
5	QPSK	1	12	23.87	23.85	23.86	
5	QPSK	1	24	23.88	23.85	23.70	
5	QPSK	12	0	23.00	22.82	22.93	
5	QPSK	12	7	22.83	22.87	22.89	
5	QPSK	12	13	22.88	22.82	22.83	
5	QPSK	25	0	22.89	22.92	22.87	
5	16QAM	1	0	23.54	23.27	23.16	
5	16QAM	1	12	22.98	22.96	22.97	
5	16QAM	1	24	23.27	23.01	23.03	
5	16QAM	12	0	22.06	21.99	21.92	
5	16QAM	12	7	21.90	21.99	21.87	
5	16QAM	12	13	21.92	21.83	21.82	
5	16QAM	25	0	21.94	21.82	21.97	
5	64QAM	1	0	23.19	23.45	22.83	
5	64QAM	1	12	22.79	22.98	23.34	
5	64QAM	1	24	22.82	22.88	23.30	
5	64QAM	12	0	22.00	21.93	21.78	
5	64QAM	12	7	22.00	22.02	21.90	
5	64QAM	12	13	22.07	21.90	21.98	
5	64QAM	25	0	21.96	22.00	21.98	

Tel: 86-755-36698555



LTE Band	d 38			Measured EIRP		
BW	Modulation	RB	RB	Low	Middle	High
[MHz]		Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.
	Channe			37850	38000	38150
	Frequency (I	MHz)		2580	2595	2610
20	QPSK	1	0	23.84	23.72	23.61
20	QPSK	1	49	23.62	23.48	23.24
20	QPSK	1	99	23.47	23.34	23.08
20	QPSK	50	0	22.83	22.81	22.73
20	QPSK	50	24	22.71	22.62	22.52
20	QPSK	50	50	22.68	22.65	22.42
20	QPSK	100	0	22.66	22.69	22.59
20	16QAM	1	0	23.19	23.10	23.00
20	16QAM	1	49	22.88	22.88	22.66
20	16QAM	1	99	22.73	22.73	22.58
20	16QAM	50	0	22.62	22.74	22.67
20	16QAM	50	24	22.91	22.76	22.68
20	16QAM	50	50	22.79	22.81	22.64
20	16QAM	100	0	22.81	22.78	22.59
20	64QAM	1	0	23.12	23.05	22.96
20	64QAM	1	49	22.74	22.70	22.57
20	64QAM	1	99	22.66	22.65	22.40
20	64QAM	50	0	22.51	22.73	22.73
20	64QAM	50	24	22.62	22.64	22.65
20	64QAM	50	50	22.68	22.63	22.44
20	64QAM	100	0	22.77	22.65	22.56



LTE Ban	d 38			Measured EIRP		
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.
	Channe	l	L	37825	38000	38175
	Frequency (I	MHz)		2577.5	2595	2612.5
15	QPSK	1	0	23.83	23.73	23.61
15	QPSK	1	37	23.59	23.51	23.28
15	QPSK	1	74	23.54	23.55	23.31
15	QPSK	36	0	22.82	22.59	22.47
15	QPSK	36	20	22.78	22.61	22.39
15	QPSK	36	39	22.68	22.45	22.24
15	QPSK	75	0	22.75	22.59	22.46
15	16QAM	1	0	23.12	22.96	22.94
15	16QAM	1	37	22.91	22.84	22.63
15	16QAM	1	74	22.86	22.79	22.45
15	16QAM	36	0	23.06	22.82	22.59
15	16QAM	36	20	23.73	22.81	22.39
15	16QAM	36	39	23.55	23.66	22.35
15	16QAM	75	0	23.70	22.84	22.51
15	64QAM	1	0	22.99	22.90	22.85
15	64QAM	1	37	22.81	22.74	22.52
15	64QAM	1	74	22.83	22.82	21.84
15	64QAM	36	0	22.88	22.83	22.42
15	64QAM	36	20	22.79	22.70	22.48
15	64QAM	36	39	22.86	22.83	22.72
15	64QAM	75	0	22.89	22.81	22.83



LTE Band	d 38			Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
	Channe	l	I	37800	38000	38200	
	Frequency (I	MHz)		2575	2595	2615	
10	QPSK	1	0	23.66	23.55	23.29	
10	QPSK	1	25	23.52	23.39	23.22	
10	QPSK	1	49	23.45	23.42	23.06	
10	QPSK	25	0	22.69	22.51	22.41	
10	QPSK	25	12	22.62	22.63	22.33	
10	QPSK	25	25	22.65	22.63	22.3	
10	QPSK	50	0	22.52	22.65	22.33	
10	16QAM	1	0	22.90	23.03	22.69	
10	16QAM	1	25	22.88	22.79	22.53	
10	16QAM	1	49	22.80	22.71	22.57	
10	16QAM	25	0	22.76	22.78	22.38	
10	16QAM	25	12	22.88	22.68	22.51	
10	16QAM	25	25	22.59	22.8	22.48	
10	16QAM	50	0	22.80	22.78	22.48	
10	64QAM	1	0	22.79	22.90	22.52	
10	64QAM	1	25	22.70	22.70	22.43	
10	64QAM	1	49	22.59	22.61	22.36	
10	64QAM	25	0	22.74	22.64	22.34	
10	64QAM	25	12	22.62	22.76	22.47	
10	64QAM	25	25	22.66	22.55	22.22	
10	64QAM	50	0	22.75	22.73	22.45	

Tel: 86-755-36698555



LTE Band	1 38			Measured EIRP			
	1 00						
BW	Modulation	RB	RB	Low	Middle	High	
[MHz]		Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
	Channe	l		37775	38000	38225	
	Frequency (I	MHz)		2572.5	2595	2617.5	
5	QPSK	1	0	23.73	23.43	23.15	
5	QPSK	1	12	23.50	23.43	23.19	
5	QPSK	1	24	23.39	23.32	23.03	
5	QPSK	12	0	23.64	22.52	22.32	
5	QPSK	12	7	23.72	22.59	22.25	
5	QPSK	12	13	22.67	22.54	22.38	
5	QPSK	25	0	23.52	22.62	22.28	
5	16QAM	1	0	22.93	22.88	22.50	
5	16QAM	1	12	22.75	22.84	22.59	
5	16QAM	1	24	22.86	22.73	22.55	
5	16QAM	12	0	23.48	22.77	22.37	
5	16QAM	12	7	23.58	22.64	22.39	
5	16QAM	12	13	22.81	22.68	22.32	
5	16QAM	25	0	22.80	22.68	22.36	
5	64QAM	1	0	22.74	22.81	22.53	
5	64QAM	1	12	22.66	22.73	22.37	
5	64QAM	1	24	22.67	22.73	22.45	
5	64QAM	12	0	22.61	22.62	22.42	
5	64QAM	12	7	22.62	22.59	22.46	
5	64QAM	12	13	22.55	22.63	22.37	
5	64QAM	25	0	22.51	22.72	22.39	

Tel: 86-755-36698555



LTE Bar	nd 40 Block	A		Measured EIRP		
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.
	Channe	l		1	38750	1
	Frequency (I	MHz)		1	2310	1
10	QPSK	1	0	1	24.24	1
10	QPSK	1	25	/	24.11	1
10	QPSK	1	49	1	23.95	1
10	QPSK	25	0	1	23.30	1
10	QPSK	25	12	/	23.11	1
10	QPSK	25	25	/	23.23	1
10	QPSK	50	0	/	23.23	1
10	16QAM	1	0	1	23.51	1
10	16QAM	1	25	1	23.49	1
10	16QAM	1	49	1	23.31	1
10	16QAM	25	0	/	22.30	1
10	16QAM	25	12	/	22.36	1
10	16QAM	25	25	/	22.19	1
10	16QAM	50	0	/	22.36	1
10	64QAM	1	0	1	23.42	1
10	64QAM	1	25	1	23.37	/
10	64QAM	1	49	1	23.18	1
10	64QAM	25	0	1	22.23	1
10	64QAM	25	12	1	22.29	1
10	64QAM	25	25	1	22.12	/
10	64QAM	50	0	1	22.29	/



I TE Band	d 40 Block A			Measured EIRP			
	T 40 Block A		<u> </u>				
BW	Modulation	RB	RB	Low	Middle	High	
[MHz]	.vio dalation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
	Channe	l		38725	38750	38775	
	Frequency (I	MHz)		2307.5	2310	2312.5	
5	QPSK	1	0	24.11	24.10	24.09	
5	QPSK	1	12	24.16	24.11	24.08	
5	QPSK	1	24	24.10	23.95	24.03	
5	QPSK	12	0	23.13	23.24	23.33	
5	QPSK	12	7	23.30	23.36	23.13	
5	QPSK	12	13	23.13	23.10	23.32	
5	QPSK	25	0	23.28	23.25	23.31	
5	16QAM	1	0	23.45	23.36	23.55	
5	16QAM	1	12	23.44	23.41	23.48	
5	16QAM	1	24	23.38	23.45	23.43	
5	16QAM	12	0	22.47	22.49	22.26	
5	16QAM	12	7	22.42	22.40	22.36	
5	16QAM	12	13	22.26	22.23	22.26	
5	16QAM	25	0	22.47	22.43	22.39	
5	64QAM	1	0	23.47	23.27	23.35	
5	64QAM	1	12	23.43	23.29	23.26	
5	64QAM	1	24	23.27	23.35	23.33	
5	64QAM	12	0	22.42	22.23	22.42	
5	64QAM	12	7	22.28	22.26	22.22	
5	64QAM	12	13	22.30	22.28	22.31	
5	64QAM	25	0	22.17	22.36	22.41	

Tel: 86-755-36698555



LTE Band	d 40 Block E	3		Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
	Channe	I			39200	/	
	Frequency (I	MHz)		1	2355	/	
10	QPSK	1	0	1	24.29	/	
10	QPSK	1	25	1	24.10	/	
10	QPSK	1	49	1	24.13	/	
10	QPSK	25	0	1	23.22	/	
10	QPSK	25	12	/	23.41	/	
10	QPSK	25	25	/	23.34	/	
10	QPSK	50	0	/	23.41	/	
10	16QAM	1	0	/	23.74	/	
10	16QAM	1	25	/	23.57	/	
10	16QAM	1	49	1	23.41	/	
10	16QAM	25	0	1	22.59	/	
10	16QAM	25	12	1	22.36	/	
10	16QAM	25	25	1	22.39	/	
10	16QAM	50	0	1	22.55	/	
10	64QAM	1	0	1	23.58	/	
10	64QAM	1	25	/	23.36	/	
10	64QAM	1	49	1	23.37	/	
10	64QAM	25	0	1	22.51	/	
10	64QAM	25	12	1	22.29	/	
10	64QAM	25	25	1	22.44	1	
10	64QAM	50	0	1	22.26	/	

Tel: 86-755-36698555



LTE Band	d 40 Block E	3		Measured EIRP		
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.
	Channe	I		39175	39200	39225
	Frequency (I	MHz)		2352.5	2355	2357.5
5	QPSK	1	0	24.21	24.27	24.19
5	QPSK	1	12	24.21	24.26	24.23
5	QPSK	1	24	24.18	24.08	24.11
5	QPSK	12	0	23.21	23.30	23.39
5	QPSK	12	7	23.30	23.37	23.44
5	QPSK	12	13	23.30	23.17	23.17
5	QPSK	25	0	23.39	23.37	23.36
5	16QAM	1	0	23.61	23.65	23.5
5	16QAM	1	12	23.47	23.45	23.58
5	16QAM	1	24	23.55	23.38	23.52
5	16QAM	12	0	22.55	22.55	22.53
5	16QAM	12	7	22.53	22.51	22.39
5	16QAM	12	13	22.46	22.31	22.5
5	16QAM	25	0	22.46	22.55	22.56
5	64QAM	1	0	23.57	23.45	23.51
5	64QAM	1	12	23.46	23.43	23.46
5	64QAM	1	24	23.35	23.27	23.42
5	64QAM	12	0	22.28	22.28	22.48
5	64QAM	12	7	22.48	22.46	22.44
5	64QAM	12	13	22.37	22.46	22.24
5	64QAM	25	0	22.48	22.47	22.48

Tel: 86-755-36698555



LTE Band	d 41				Measured EIRP		
BW	Modulation	RB	RB	Low	Middle	High	
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
	Channe	I		39750	40620	41490	
	Frequency (	MHz)		2506.0	2506.0 2593.0		
20	QPSK	1	0	23.93	24.06	23.84	
20	QPSK	1	49	23.77 23.75		23.66	
20	QPSK	1	99	23.77 23.69		23.57	
20	QPSK	50	0	23.02	23.06	22.94	
20	QPSK	50	24	22.94	22.82	22.93	
20	QPSK	50	50	22.88	22.75	22.91	
20	QPSK	100	0	23.13	23.13 22.85		
20	16QAM	1	0	22.52	23.34	23.24	
20	16QAM	1	49	22.76	23.18	23.13	
20	16QAM	1	99	22.80	22.89	22.84	
20	16QAM	50	0	22.16	22.08	22.13	
20	16QAM	50	24	22.01	22.07	22.06	
20	16QAM	50	50	21.84	22.02	21.90	
20	16QAM	100	0	22.08	22.10	21.87	
20	64QAM	1	0	23.24	23.26	23.23	
20	64QAM	1	49	22.95	22.96	23.07	
20	64QAM	1	99	22.88	22.87	22.76	
20	64QAM	50	0	21.88	22.02	22.02	
20	64QAM	50	24	22.01 21.91		22.00	
20	64QAM	50	50	21.90	21.95	21.91	
20	64QAM	100	0	22.21	22.15	21.97	



LTE Band	d 41				Measured EIRP	
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.
	Channe	I	1	39725	40620	41515
	Frequency (	MHz)		2503.5	2593.0	2682.5
15	QPSK	1	0	23.97	24.04	23.94
15	QPSK	1	37	23.63	23.74	23.76
15	QPSK	1	74	23.67	23.81	23.76
15	QPSK	36	0	23.04	22.90	23.33
15	QPSK	36	20	22.82	22.96	22.84
15	QPSK	36	39	22.79	22.76	22.91
15	QPSK	75	0	23.09	22.84	22.97
15	16QAM	1	0	22.58	23.30	23.08
15	16QAM	1	37	22.7	23.11	23.01
15	16QAM	1	74	22.83	23.07	22.97
15	16QAM	36	0	21.78	22.09	22.07
15	16QAM	36	20	22.00	22.06	22.07
15	16QAM	36	39	21.99	21.86	21.97
15	16QAM	75	0	21.81	21.99	22.17
15	64QAM	1	0	22.63	23.20	23.13
15	64QAM	1	37	22.89	22.88	22.98
15	64QAM	1	74	21.85	22.03	22.07
15	64QAM	36	0	21.88	22.09	22.09
15	64QAM	36	20	21.82	21.88	21.87
15	64QAM	36	39	21.98	22.08	21.98
15	64QAM	75	0	21.83	22.06	21.97

Tel: 86-755-36698555



LTE Band	41				Measured EIRP	
BW	Modulation	RB	RB	Low	Middle	High
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.
	Channe	·I		39700	9700 40620	
	Frequency (	MHz)		2501.0	2593.0	2685.0
10	QPSK	1	0	23.90	23.84	23.84
10	QPSK	1	25	23.98	23.69	23.76
10	QPSK	1	49	23.72	23.72 23.69	
10	QPSK	25	0	23.12	22.89	23.23
10	QPSK	25	12	23.16	22.84	23.00
10	QPSK	25	25	22.87	22.81	22.81
10	QPSK	50	0	23.13	23.13 22.88	
10	16QAM	1	0	22.50	23.27	23.14
10	16QAM	1	25	22.77	23.12	23.1
10	16QAM	1	49	22.64	23.11	22.91
10	16QAM	25	0	21.99	21.97	21.94
10	16QAM	25	12	22.02	22.03	22.00
10	16QAM	25	25	21.90	21.89	21.92
10	16QAM	50	0	22.17	21.92	22.02
10	64QAM	1	0	22.64	23.05	23.12
10	64QAM	1	25	22.90	23.08	22.93
10	64QAM	1	49	22.79	22.99	22.93
10	64QAM	25	0	22.01	21.97	22.03
10	64QAM	25	12	21.86	22.02	21.87
10	64QAM	25	25	21.91	21.87	21.96
10	64QAM	50	0	22.01	22.02	21.84

Tel: 86-755-36698555



LTE Band	d 41				Measured EIRP	
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.
[IVII 12]	Channe		Oliset	39675	40620	41565
						-
	Frequency (			2498.5	2593.0	2687.5
5	QPSK	1	0	23.74	23.79	23.83
5	QPSK	1	12	17.34	23.74	23.77
5	QPSK	1	24	23.86	23.67	23.68
5	QPSK	12	0	23.16	22.96	22.83
5	QPSK	12	7	23.32	23.00	22.97
5	QPSK	12	13	23.09	22.92	22.91
5	QPSK	25	0	22.91	22.82	22.84
5	16QAM	1	0	22.46	23.07	23.10
5	16QAM	1	12	22.81	23.16	22.99
5	16QAM	1	24	22.63	22.99	23.07
5	16QAM	12	0	21.77	21.91	22.02
5	16QAM	12	7	21.92	22.05	21.99
5	16QAM	12	13	21.89	21.96	21.87
5	16QAM	25	0	21.99	21.91	22.03
5	64QAM	1	0	22.99	23.00	23.07
5	64QAM	1	12	22.93	22.95	23.01
5	64QAM	1	24	22.81	22.99	22.97
5	64QAM	12	0	21.96	22.00	21.97
5	64QAM	12	7	21.99	22.02	21.98
5	64QAM	12	13	21.83	21.88	22.01
5	64QAM	25	0	21.75	22.04	21.90

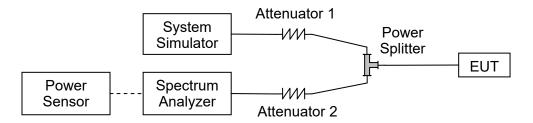


# 2.2. Occupied Bandwidth

### 2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

## 2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



## 2.2.4. Test Result

			LTE B	and 2			
BW		L	СН	M	ICH	Н	СН
(MHz)	Modulation	OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
(IVITIZ)		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
	QPSK	1.09	1.24	1.09	1.23	1.09	1.25
1.4	16QAM	1.09	1.23	1.09	1.24	1.10	1.25
	64QAM	1.10	1.25	1.09	1.25	1.09	1.23
	QPSK	2.71	3.00	2.69	3.00	2.69	3.01
3	16QAM	2.70	3.00	2.70	2.99	2.70	3.01
	64QAM	2.71	3.17	2.71	2.99	2.70	3.02
	QPSK	4.50	5.00	4.50	5.02	4.50	5.01
5	16QAM	4.49	5.00	4.49	4.97	4.50	4.98
	64QAM	4.51	5.05	4.50	5.02	4.50	4.99
	QPSK	8.98	9.87	8.97	9.83	8.98	9.86
10	16QAM	8.95	9.82	8.96	9.73	8.96	9.81
	64QAM	8.99	9.89	9.01	9.87	8.99	9.79
	QPSK	13.46	14.70	13.44	14.67	13.46	14.67
15	16QAM	13.46	14.73	13.45	14.61	13.45	14.77
	64QAM	13.47	14.69	13.46	14.42	13.39	14.63
	QPSK	17.96	19.43	17.92	19.48	17.91	19.54
20	16QAM	17.94	19.02	17.94	19.45	17.95	19.56
	64QAM	17.99	19.59	17.89	19.51	17.92	19.55



			LTE B	and 4			
D\A/		L	.CH	M	ICH	Н	ICH
BW (MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)
	QPSK	1.09	1.24	1.10	1.24	1.09	1.24
1.4	16QAM	1.09	1.23	1.10	1.24	1.10	1.24
	64QAM	1.09	1.24	1.09	1.23	1.09	1.23
	QPSK	2.69	3.00	2.7	3.00	2.70	3.00
3	16QAM	2.70	3.00	2.7	3.00	2.70	3.01
	64QAM	2.70	3.01	2.68	2.96	2.7	3.00
	QPSK	4.50	5.00	4.50	4.98	4.50	4.98
5	16QAM	4.49	4.97	4.49	4.95	4.50	4.95
	64QAM	4.50	4.96	4.50	5.00	4.50	5.00
	QPSK	8.98	9.76	8.99	9.74	8.99	9.81
10	16QAM	8.97	9.73	8.96	9.77	8.95	9.72
	64QAM	8.98	9.84	8.98	9.75	8.99	9.79
	QPSK	13.46	14.67	13.49	14.59	13.48	14.58
15	16QAM	13.46	14.61	13.46	14.64	13.45	14.77
	64QAM	13.43	14.68	13.48	14.61	13.48	14.61
	QPSK	17.94	19.51	17.91	19.42	17.90	19.38
20	16QAM	17.96	19.43	17.95	19.38	17.98	19.51
	64QAM	17.90	19.34	17.94	19.45	17.94	19.47



	LTE Band 5											
DW		L	.CH	N	ICH	Н	НСН					
BW (MH-)	Modulation	OBW	26dB BW	OBW	26dB BW	OBW	26dB BW					
(MHz)		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)					
	QPSK	1.09	1.23	1.09	1.24	1.09	1.24					
1.4	16QAM	1.09	1.24	1.1	1.24	1.1	1.24					
	64QAM	1.09	1.24	1.09	1.25	1.09	1.24					
	QPSK	2.70	2.97	2.70	2.99	2.71	3.01					
3	16QAM	2.70	3.01	2.70	3.0	2.71	3.01					
	64QAM	2.70	2.99	2.70	3.01	2.70	3.01					
	QPSK	4.50	4.99	4.50	4.95	4.50	4.96					
5	16QAM	4.50	4.95	4.50	4.99	4.50	4.98					
	64QAM	4.51	4.99	4.50	4.96	4.50	4.99					
	QPSK	9.00	9.88	8.98	9.82	9.01	9.73					
10	16QAM	8.98	9.76	8.94	9.73	8.94	9.75					
	64QAM	9.01	9.87	8.99	9.87	9.02	9.85					

			LTE B	and 7			
D147		L	СН	M	ICH	Н	СН
BW (MHz)	Modulation	OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
(141112)		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
	QPSK	4.51	4.97	4.50	5.00	4.50	4.98
5	16QAM	4.5	4.94	4.51	4.99	4.51	4.96
	64QAM	4.51	4.99	4.50	4.94	4.51	4.92
	QPSK	8.99	9.78	9.01	9.85	8.97	9.76
10	16QAM	8.97	9.75	8.95	9.80	8.96	9.71
	64QAM	8.96	9.76	8.97	9.77	8.95	9.72
	QPSK	13.46	14.65	13.44	14.57	13.44	14.67
15	16QAM	13.41	14.6	13.46	14.71	13.44	14.72
	64QAM	13.44	14.69	13.47	14.63	13.44	14.63
	QPSK	17.94	19.51	17.93	19.43	17.91	19.50
20	16QAM	17.91	19.52	17.93	19.46	17.90	19.50
	64QAM	17.96	19.42	17.94	19.47	17.92	19.43



	LTE Band 12											
BW		L	СН	M	ICH	НСН						
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)					
	QPSK	1.1	1.24	1.09	1.25	1.09	1.24					
1.4	16QAM	1.1	1.25	1.1	1.24	1.1	1.24					
	64QAM	1.09	1.25	1.1	1.24	1.1	1.24					
	QPSK	2.7	3.01	2.69	3.01	2.71	3.02					
3	16QAM	2.7	2.99	2.7	3.0	2.71	3.02					
	64QAM	2.7	2.97	2.7	3.0	2.71	3.02					
	QPSK	4.52	4.98	4.48	4.94	4.52	4.96					
5	16QAM	4.51	4.95	4.5	4.94	4.52	4.97					
	64QAM	4.51	4.91	4.49	4.9	4.51	4.99					
	QPSK	9.06	9.91	8.94	9.67	8.94	9.68					
10	16QAM	9.03	9.82	8.89	9.6	8.91	9.68					
	64QAM	9.02	9.81	8.87	9.61	8.89	9.67					

	LTE Band 17											
BW		L	СН	N	ICH	H	СН					
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)					
	QPSK	4.49	4.98	4.47	4.94	4.53	4.98					
5	16QAM	4.5	4.97	4.48	4.92	4.52	4.96					
	64QAM	4.51	4.94	4.47	4.93	4.52	4.96					
	QPSK	8.91	9.59	8.9	9.66	8.96	9.69					
10	16QAM	8.85	9.67	8.85	9.7	8.9	9.6					
	64QAM	8.86	9.57	8.86	9.66	8.91	9.65					



	LTE Band 19											
BW		L	СН	M	СН	НСН						
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)					
	QPSK	4.5	4.98	4.49	4.97	4.50	4.97					
5	16QAM	4.51	5.00	4.50	4.97	4.50	4.96					
	64QAM	4.51	5.00	4.50	4.96	4.50	4.95					
	QPSK	9.00	9.83	8.98	9.79	8.95	9.80					
10	16QAM	8.96	9.71	8.94	9.68	8.95	9.80					
	64QAM	8.95	9.76	8.95	9.71	8.94	9.72					
	QPSK	1	1	13.40	14.58	1	1					
15	16QAM	1	1	13.43	14.55	/	/					
	64QAM	1	1	13.41	14.60	1	1					

			LTE Ba	nd 25				
BW		L	СН	M	ICH	HCH		
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	
	QPSK	1.10	1.25	1.09	1.24	1.09	1.24	
1.4	16QAM	1.10	1.24	1.10	1.25	1.10	1.23	
	64QAM	1.10	1.25	1.09	1.24	1.09	1.23	
	QPSK	2.71	3.04	2.70	3.04	2.70	2.99	
3	16QAM	2.70	3.02	2.70	3.00	2.70	3.00	
	64QAM	2.70	3.00	2.70	3.00	2.70	2.99	
	QPSK	4.50	4.98	4.50	4.96	4.50	4.96	
5	16QAM	4.51	4.99	4.50	4.98	4.50	4.98	
	64QAM	4.49	4.96	4.50	4.94	4.50	4.97	
	QPSK	9.00	9.93	9.00	9.77	9.02	9.81	
10	16QAM	8.96	9.84	8.96	9.78	8.97	9.70	
	64QAM	8.94	9.72	8.96	9.71	8.93	9.73	
	QPSK	13.49	14.78	13.45	14.67	13.44	14.62	
15	16QAM	13.47	14.72	13.44	14.61	13.42	14.58	
	64QAM	5.83	13.98	13.46	14.62	13.42	14.71	
	QPSK	17.98	19.36	17.93	19.54	17.83	19.38	
20	16QAM	18.02	19.73	17.89	19.44	17.86	19.41	
	64QAM	17.85	19.16	17.89	19.49	17.92	19.42	



	LTE Band 26									
BW		LCH		MCH		НСН				
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)			
	QPSK	1.10	1.25	1.09	1.24	1.10	1.24			
1.4	16QAM	1.09	1.23	1.10	1.25	1.09	1.24			
	64QAM	1.10	1.23	1.10	1.25	1.09	1.24			
	QPSK	2.71	3.03	2.71	3.05	2.71	3.02			
3	16QAM	2.71	3.02	2.72	3.05	2.70	3.00			
	64QAM	2.71	3.04	2.71	3.05	2.70	3.00			
	QPSK	4.51	4.93	4.51	4.99	4.51	4.96			
5	16QAM	4.51	4.96	4.50	4.95	4.51	4.94			
	64QAM	4.51	4.97	4.51	4.98	4.52	4.96			
	QPSK	9.00	9.86	8.96	9.83	8.97	9.67			
10	16QAM	8.98	9.81	8.94	9.66	8.98	9.83			
	64QAM	8.98	9.77	8.97	9.78	8.98	9.87			
15	QPSK	13.47	14.55	13.41	14.64	13.42	14.59			
	16QAM	13.49	14.76	13.42	14.40	13.42	14.63			
	64QAM	13.45	14.66	13.4	14.55	13.42	14.48			

LTE Band 30									
BW (MHz)	Modulation	LCH		MCH		HCH			
		OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)		
	QPSK	4.50	5.00	4.51	4.99	4.49	4.97		
5	16QAM	4.51	4.94	4.50	4.99	4.50	4.92		
	64QAM	4.50	4.97	4.50	4.96	4.50	4.95		
	QPSK	1	1	8.99	9.81	1	1		
10	16QAM	1	1	8.95	9.73	1	1		
	64QAM	1	1	8.96	9.75	1	1		



LTE Band 38									
BW		LCH		MCH		НСН			
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)		
	QPSK	4.51	4.97	4.51	4.97	4.51	4.97		
5	16QAM	4.52	5.34	4.51	5.50	4.51	5.47		
	64QAM	4.51	4.98	4.50	4.99	4.50	4.99		
	QPSK	8.97	10.19	8.96	9.85	8.98	9.84		
10	16QAM	8.96	9.89	8.97	10.03	8.97	9.94		
	64QAM	8.98	9.96	8.97	9.83	8.97	9.81		
	QPSK	13.44	15.09	13.47	15.02	13.46	14.84		
15	16QAM	13.47	14.82	13.47	14.82	13.47	14.85		
	64QAM	13.44	14.9	13.46	14.55	13.48	14.82		
20	QPSK	17.93	20.0	17.9	19.35	17.93	19.7		
	16QAM	17.91	19.68	17.9	19.35	17.94	19.48		
	64QAM	17.96	20.07	17.91	20.11	17.9	19.86		

LTE Band 40 Block A									
BW		L	LCH		MCH		СН		
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)		
	QPSK	4.50	5.05	4.48	5.06	4.49	5.00		
5	16QAM	4.50	5.16	4.49	5.05	4.48	5.04		
	64QAM	4.48	5.12	4.49	5.13	4.48	5.13		
	QPSK	1	1	8.97	9.58	/	1		
10	16QAM	1	1	8.94	9.78	/	1		
	64QAM	1	1	8.97	10.01	/	/		

LTE Band 40 Block B									
BW		LCH		MCH		НСН			
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)		
	QPSK	4.49	4.95	4.48	4.84	4.48	4.91		
5	16QAM	4.48	4.90	4.47	4.94	4.49	4.99		
	64QAM	4.48	4.99	4.49	4.92	4.48	4.95		
	QPSK	1	1	8.98	9.78	1	1		
10	16QAM	1	1	8.98	9.96	1	1		
	64QAM	1	1	8.97	9.78	1	1		





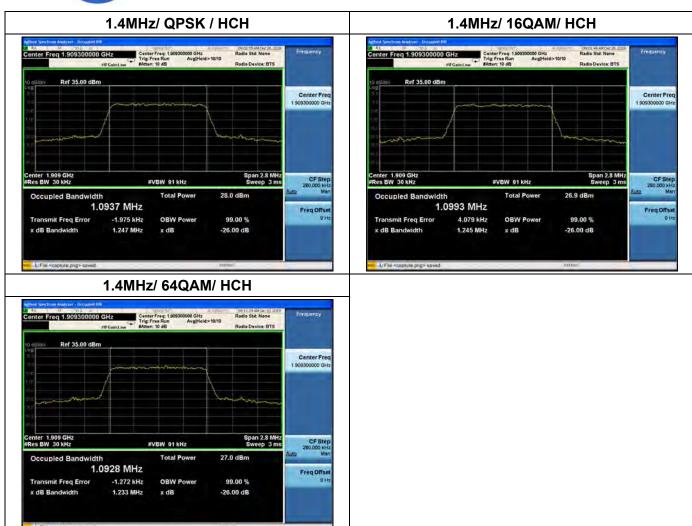
LTE Band 41									
BW		LCH		MCH		НСН			
(MHz)	Modulation	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)	OBW (MHz)	26dB BW (MHz)		
	QPSK	4.49	4.98	4.5	4.97	5.12	9.96		
5	16QAM	4.50	4.87	4.51	5.35	5.34	9.88		
	64QAM	4.50	4.92	4.50	4.94	5.29	9.79		
	QPSK	9.02	15.46	8.97	9.80	9.01	12.74		
10	16QAM	9.01	14.75	8.97	10.07	9.03	16.57		
	64QAM	9.03	13.65	8.96	9.91	8.99	12.34		
	QPSK	13.5	18.04	13.47	14.59	13.49	15.01		
15	16QAM	13.49	17.90	13.45	14.78	13.48	15.11		
	64QAM	13.48	19.82	13.44	14.97	13.47	14.55		
20	QPSK	17.93	20.74	17.97	19.77	17.86	19.21		
	16QAM	17.92	20.58	17.97	19.77	17.88	19.42		
	64QAM	17.91	20.58	17.93	19.39	17.90	19.22		



#### LTE Band 2 99%&26dB Bandwidth 1.4MHz/QPSK/ LCH 1.4MHz/16QAM/ LCH Radio Std: None Center Freq: 1.850700000 GHz Trig: Free Run AvgiHeld>10/10 Center Freq: 1.850700000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dBm Ref 35.00 dBm Center Free Center Fre nter 1.851 GHz es BW 30 kHz nter 1.851 GHz es BW 30 kHz 25.8 dBm 1.0940 MHz 1.0924 MHz Freq Offsi smit Freq Error -301 Hz 99.00 % Transmit Freq Error 2.244 kHz OBW Power 99.00 % 1.245 MHz -26.00 dB 1.233 MHz x dB -26.00 dB 1.4MHz/ 64QAM / LCH 1.4MHz/QPSK/ MCH Radio Std. None Radio Std: None Ref 35.00 dBr Ref 35.00 dBm Center Free Center Free Span 2.8 MHz Sweep 3 ms Span 2.8 MH Sweep 3 ms nter 1.851 GHz ter 1.88 GHz s BW 30 kHz #VBW 91 kHz 26.9 dBm 1.0925 MHz 1.0961 MHz Freq Offse 99.00 % -2.020 kHz 99.00 % 1.250 MHz x dB -26.00 dB x dB Bandwidth 1.232 MHz x dB -26.00 dB 1.4MHz/16QAM/ MCH 1.4MHz/64QAM/ MCH Ref 35.00 dBm Ref 35.00 dBm Center Fre Center Free Span 2.8 MHz Sweep 3 ms nter 1.88 GHz es BW 30 kHz nter 1.88 GHz es BW 30 kHz CF Step 280,000 kHz Mar CF Ste #VBW 91 kHz #VBW 91 kHz 26.0 dBm Total Power 25.6 dBm 1.0930 MHz 1.0935 MHz Freq Offs 2.910 kHz 99.00 % -127 Hz OBW Power 1.244 MHz -26.00 dB 1.248 MHz -26.00 dB























#### LTE Band 2 99%&26dB Bandwidth 5MHz/QPSK / LCH 5MHz/16QAM / LCH Center Freq: 1.852500000 GHz Trig: Free Run Avg|Held>10/10 Radio Std: None Center Freq: 1.852500000 GHz Trig: Free Run Avg|Held>10/10 1.85282 GI 13.278 dB Ref 35.00 dB Ref 35.00 dB Center Free Center Fre 1.000000 26.2 dBm 4.5031 MHz 4.4931 MHz Freq Offsi nsmit Freq Error 2.844 kHz 99.00 % Transmit Freq Error 9.696 kHz OBW Power 99.00 % 5.002 MHz -26.00 dB 4.995 MHz x dB -26.00 dB 5MHz/64QAM/LCH 5MHz/QPSK / MCH Radio Std: None Radio Std: None 1.85252 GI 10.249 dB Ref 35.00 dE Ref 35.00 dB Center Fre Center Free Span 10 MHz Sweep 1 ms er 1.88 GHz BW 100 kHz 27.2 dBm 4.5090 MHz 4.4977 MHz Freq Offs 7.570 kHz 99.00 % 99.00 % 5.053 MHz -26.00 dB x dB Bandwidth 5.025 MHz x dB -26.00 dB **5MHz/16QAM/MCH** 5MHz/ 64QAM/ MCH Ref 35.00 dB Ref 35.00 dB Center Fre Center Free nter 1.88 GHz es BW 100 kHz nter 1.88 GHz es BW 100 kHz Span 10 MHz Sweep 1 ms CF Step 1.000000 MH: Mar CF Ste 26.3 dBm Total Power 25.6 dBm 4.4930 MHz 4.5011 MHz Freq Offs 4.958 kHz 6.204 kHz 99.00 % Transmit Freq Error OBW Power 4.972 MHz -26.00 dB 5.021 MHz -26.00 dB











#### LTE Band 2 99%&26dB Bandwidth 10MHz/QPSK / LCH 10MHz/16QAM / LCH Radio Std: None Radio Std: None Center Freq: 1.855000000 GHz Trig: Free Run Avg|Held>10/10 Center Freq: 1.855000000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB Center Fred Center Fre 26.3 dBm 8.9758 MHz 8.9546 MHz Freq Offs smit Freq Error 15.698 kHz 99.00 % Transmit Freq Error 8.758 kHz OBW Power 99.00 % 9.865 MHz -26.00 dB 9.794 MHz x dB -26.00 dB 10MHz/ 64QAM / LCH 10MHz/QPSK / MCH Radio Std: None Radio Std: None Ref 35.00 dB Ref 35.00 dB Center Free Center Free ter 1.88 GHz s BW 200 kH; Total Power 27.2 dBm 8.9923 MHz 8.9737 MHz Freq Offs 99.00 % 99.00 % 9.888 MHz -26.00 dB 9.827 MHz x dB -26.00 dB 10MHz/ 16QAM / MCH 10MHz/64QAM/MCH Ref 35.00 dB Ref 35.00 dB Center Fre Center Free nter 1.88 GHz es BW 200 kHz CF Step nter 1.88 GHz es BW 200 kHz CF St #VBW 620 kHz #VBW 620 kHz 26.3 dBm Total Power 25.8 dBm 8.9586 MHz 9.0067 MHz Freq Offs 15.053 kHz 4.265 kHz 99.00 % Transmit Freq Error OBW Power 9.725 MHz -26.00 dB 9.870 MHz -26.00 dB







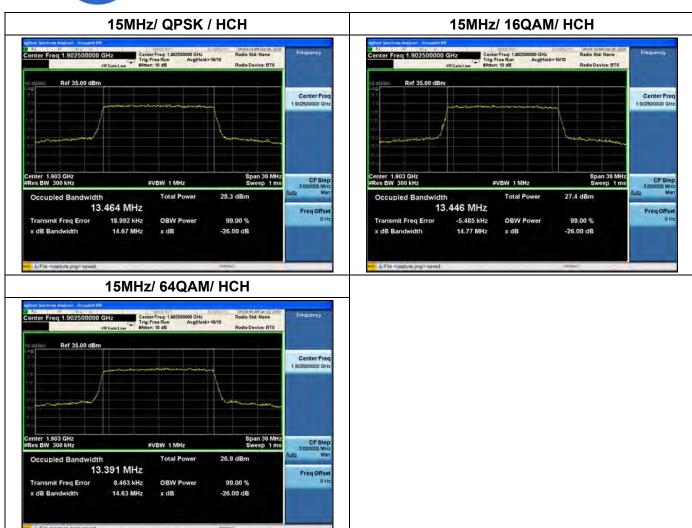




#### LTE Band 2 99%&26dB Bandwidth 15MHz/QPSK / LCH 15MHz/16QAM / LCH Center Freq: 1.857600000 GHz Trig: Free Run Avg|Hold>10/10 Radio Std: None Radio Std. None Center Freq: 1.857600000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB Center Free Center Fre CF St 26.2 dBm 13.461 MHz 13.461 MHz Freq Offsi smit Freq Error 16.960 kHz 99.00 % Transmit Freq Error 2.128 kHz OBW Power 99.00 % 14.70 MHz -26.00 dB 14.73 MHz x dB -26.00 dB 15MHz/ 64QAM / LCH 15MHz/QPSK / MCH Radio Std: None Center Freq: 1.857600000 GHz Trig: Free Run Avg|Heid>10/10 Ref 35.00 dE Ref 35.00 de Center Free Center Free • er 1.88 GHz BW 300 kHz Total Power 27.3 dBm 13.471 MHz 13.438 MHz Freq Offse -9.010 kHz 99.00 % 16.214 kHz 99.00 % 14.69 MHz -26.00 dB 14.67 MHz x dB -26.00 dB 15MHz/ 16QAM / MCH 15MHz/ 64QAM/ MCH Ref 35.00 dB Ref 35.00 dB Center Fre Center Free nter 1.88 GHz es BW 300 kHz CF Step 3.000000 MH: nter 1.88 GHz es BW 300 kH; CF Ste 26.4 dBm Total Power 24.6 dBm 13.450 MHz 13.458 MHz Freq Offs 8.231 kHz 33.618 kHz 99.00 % Transmit Freq Error OBW Power 99.00 % 14.61 MHz -26.00 dB 14.42 MHz -26.00 dB











#### LTE Band 2 99%&26dB Bandwidth 20MHz/QPSK / LCH 20MHz/16QAM / LCH Radio Std: None Center Freq: 1.550000000 GHz Trig: Free Run Avg|Held>10/10 Center Freq: 1.850000000 GHz Trig: Free Run Avg|Held>10/10 1.86268 GH 11.610 dB Ref 35.00 dB Ref 35.00 de Center Fre Center Fre 24.5 dBm 17.960 MHz 17.941 MHz Freq Offsi smit Freq Error 21.064 kHz 99.00 % Transmit Freq Error 29.765 kHz OBW Power 99.00 % 19.43 MHz -26.00 dB 19.02 MHz x dB -26.00 dB 20MHz/ 64QAM / LCH 20MHz/QPSK / MCH Radio Std. None Radio Std: None Ref 35.00 dE Ref 35.00 dB Center Free Center Free ter 1.88 GHz s BW 430 kHz #VBW 1.3 MHz #VBW 1.3 MHz Total Power 27.3 dBm 17.923 MHz 17.988 MHz Freq Offse 99.00 % 22.381 kHz 99.00 % 19.59 MHz -26.00 dB 19.48 MHz x dB -26.00 dB 20MHz/ 16QAM / MCH 20MHz/64QAM/MCH Radio Device: BTS Ref 35.00 dB Ref 35.00 dB Center Fre Center Free nter 1.88 GHz es BW 430 kHz nter 1.88 GHz es BW 430 kHz CF Step 4.000000 MHz Man CF Ste #VBW 1.3 MHz #VBW 1.3 MHz 26.6 dBm Total Power 26.0 dBm 17.935 MHz 17.886 MHz Freq Offs 2.546 kHz 34.339 kHz 99.00 % Transmit Freq Error OBW Power 19.45 MHz -26.00 dB 19.51 MHz -26.00 dB







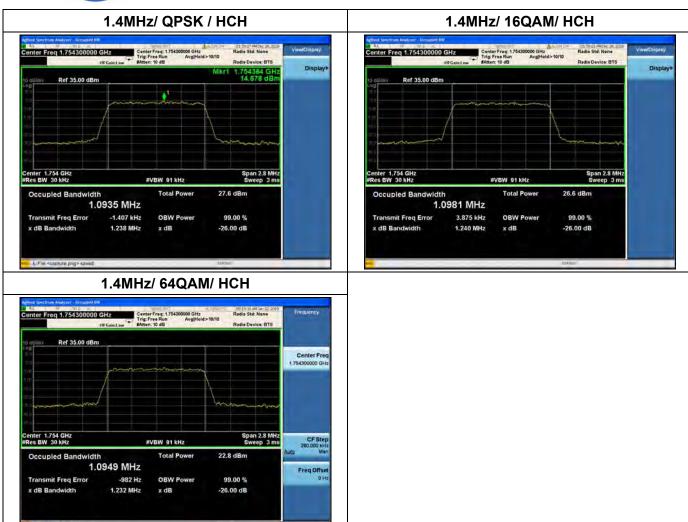
















#### LTE Band 4 99%&26dB Bandwidth 3MHz/QPSK / LCH 3MHz/16QAM / LCH Center Freq: 1.711500000 GHz Trig: Freq: 10.45 01:09:00 PMTec 24, 2018 Radio Std: None 01:39:33 PMCec 26, 2015 Radio Std: None Center Freq: 1.711500000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB Span 6 MH Sweep 1.533 m 28.0 dBm 2.6948 MHz 2.6994 MHz nsmit Freq Error 744 Hz 99.00 % Transmit Freq Error 1.436 kHz OBW Power 99.00 % 2.995 MHz -26.00 dB 3.005 MHz -26,00 dB 3MHz/64QAM/LCH 3MHz/QPSK / MCH 01:99:51 PM(ec 24, 201 Radio Std: None Center Freq: 1.711500000 GHz Trig: Free Run AvgiHold>10/10 Radio Std. None Ref 35.00 dB Ref 35.00 dB Center Free Span 6 MH Sweep 1.533 m 28.5 dBm 2.6965 MHz 2.6965 MHz Freq Offsi 99.00 % 99.00 % x dB 3,007 MHz -26.00 dB 2.998 MHz -26.00 dB 3MHz/16QAM/MCH 3MHz/ 64QAM/ MCH Center Freq: 1.732500000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB Center Fred Span 6 MHz Sweep 1.533 ms Span 6 MHz Sweep 1.533 ms CF Ste 27.8 dBm Total Power 24.2 dBm 2.7006 MHz 2.6845 MHz 1.221 kHz 2.698 kHz 99.00 % Transmit Freq Error OBW Power 3.001 MHz -26.00 dB 2.957 MHz -26.00 dB







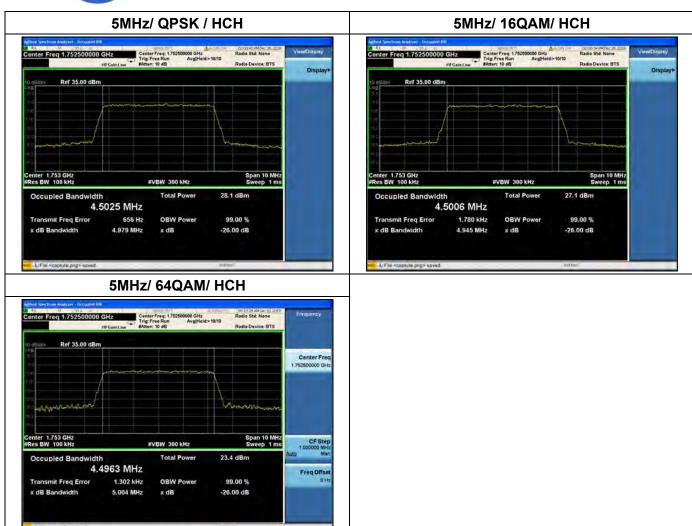












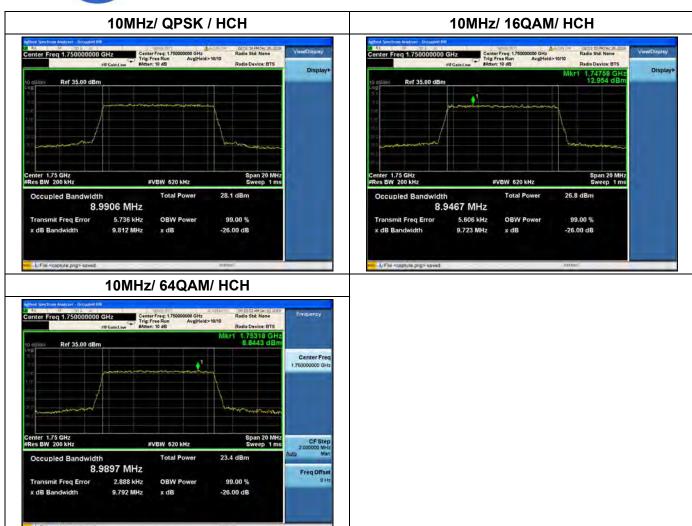




#### LTE Band 4 99%&26dB Bandwidth 10MHz/QPSK / LCH 10MHz/16QAM / LCH Radio Std: None 02:00 of PMDec 26, 2015 Radio Std: None Center Freq: 1.715000000 GHz Trig: Free Run Avg|Heid>10/10 Center Freq: 1.715000000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB 28.0 dBm 8.9792 MHz 8.9660 MHz smit Freq Error 21.511 kHz 99.00 % Transmit Freq Error 15.567 kHz OBW Power 99.00 % 9.764 MHz -26.00 dB 9.735 MHz -26.00 dB 10MHz/ 64QAM / LCH 10MHz/QPSK / MCH Radio Std: None Radio Std: None Center Freq: 1.715000000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB Center Free #VBW 620 kHz Total Power 28.5 dBm 8.9895 MHz 8.9839 MHz Freq Offse 13.664 kHz 99.00 % 24.547 kHz 99.00 % 9.844 MHz -26.00 dB 9.745 MHz x dB -26.00 dB 10MHz/ 16QAM / MCH 10MHz/64QAM/MCH Center Freq: 1.722600000 GHz Trig: Free Run Avg|Held>10/10 #Atten: 10 dB Ref 35.00 dB Ref 35.00 dB Center Free nter 1.733 GHz es BW 200 kHz nter 1.733 GHz s BW 200 kHz Span 20 MHz Sweep 1 ms CF Ste #VBW 620 kHz #VBW 620 kHz Total Power 25.3 dBm 8.9607 MHz 8.9771 MHz 10.928 kHz -1.041 kHz 99.00 % Transmit Freq Error OBW Power 9.766 MHz -26.00 dB 9.749 MHz -26.00 dB











#### LTE Band 4 99%&26dB Bandwidth 15MHz/QPSK / LCH 15MHz/16QAM / LCH Center Freq: 1.717600000 GHz Trig: Free Run Avg|Heid>10/10 Radio Std: None Radio Std: None Center Freq: 1.717600000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB 27.9 dBm 13.457 MHz 13.460 MHz smit Freq Error 35.003 kHz 99.00 % Transmit Freq Error 10.495 kHz OBW Power 99.00 % 14.67 MHz -26.00 dB 14.61 MHz x dB -26.00 dB 15MHz/ 64QAM / LCH 15MHz/QPSK / MCH Center Freq: 1.717600000 GHz Trig: Free Run AvgiHeld>10/10 Radio Std: None Radio Std: None Ref 35.00 dB Ref 35.00 de Center Free Total Power 28.6 dBm 13,429 MHz 13.487 MHz Freq Offse 10.725 kHz 99.00 % 25.968 kHz 14.68 MHz -26.00 dB 14.59 MHz x dB -26.00 dB 15MHz/ 16QAM / MCH 15MHz/64QAM/MCH Center Freq: 1.732500000 GHz Trig: Free Run Avg|Held>10/10 #Atten: 10 dB Center Freq: 1.732500000 GHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dB Ref 35.00 dB Center Free nter 1,733 GHz es BW 300 kHz nter 1,733 GHz es BW 300 kHz Span 30 MHz Sweep 1 ms CF Ste 27.7 dBm Total Power 25.4 dBm 13.457 MHz 13.483 MHz 513 Hz -5.092 kHz 99.00 % Transmit Freq Error OBW Power -26.00 dB 14.61 MHz -26.00 dB











#### LTE Band 4 99%&26dB Bandwidth 20MHz/QPSK / LCH 20MHz/16QAM / LCH Radio Std: None Radio Std: None Center Freq: 1.720000000 GHz Trig: Free Run Avg|Heid>10/10 Center Freq: 1.720000000 GHz Trig: Free Run Avg|Heid>10/10 Ref 35.00 dB Ref 35.00 dB 27.9 dBm 17.944 MHz 17.955 MHz smit Freq Error 32.811 kHz 99.00 % Transmit Freq Error 26.271 kHz OBW Power 99.00 % 19.51 MHz -26.00 dB 19.43 MHz -26.00 dB 20MHz/ 64QAM / LCH 20MHz/QPSK / MCH Radio Std. None Radio Std: None Ref 35.00 dB Ref 35.00 dB Center Free #VBW 1.3 MHz Total Power 28.5 dBm 17.895 MHz 17.915 MHz Freq Offse 1.729 kHz 99.00 % nsmit Freq Error 12.377 kHz 19.34 MHz -26.00 dB 19.39 MHz x dB -26.00 dB 20MHz/ 16QAM / MCH 20MHz/64QAM/MCH Ref 35.00 dB Ref 35.00 dB Center Free nter 1.733 GHz es BW 430 kHz nter 1.733 GHz es BW 430 kHz CF Ste #VBW 1.3 MHz #VBW 1.3 MHz 27.4 dBm Total Power 25.5 dBm 17.955 MHz 17.936 MHz 20.492 kHz -21.044 kHz 99.00 % Transmit Freq Error OBW Power 19.38 MHz -26.00 dB 19.45 MHz -26.00 dB







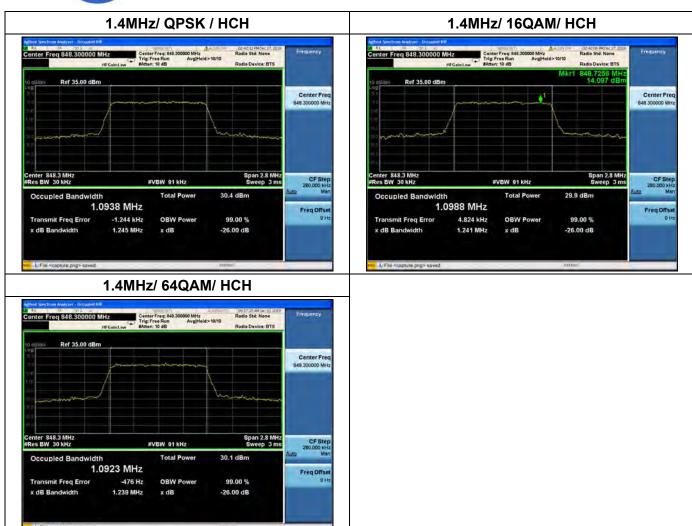




#### LTE Band 5 99%&26dB Bandwidth 1.4MHz/QPSK / LCH 1.4MHz/16QAM / LCH Radio Std: None Radio Std: None Center Freq: 824.700000 MHz Trig: Free Run Avg|Hold>10/10 Center Freq: 824.700000 MHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dBm Ref 35.00 dBm Center Free Center Free CF Step 280,000 kHz Mar 29.8 dBm 1.0927 MHz 1.0940 MHz Freq Offsi nsmit Freq Error -2.385 kHz 99.00 % Transmit Freq Error 1.926 kHz OBW Power 99.00 % 1.233 MHz -26.00 dB 1.239 MHz x dB -26.00 dB 1.4MHz/ 64QAM / LCH 1.4MHz/QPSK / MCH Radio Std. None Radio Std: None Center Freq: 824.700000 MHz Trig: Free Run Avg|Hold>10/10 Ref 35.00 dBr Ref 35.00 dBm Center Free Center Free Span 2.8 MHz Sweep 3 ms Span 2.8 MHz Sweep 3 ms Total Power 30.9 dBm 1.0936 MHz 1.0923 MHz Freq Offse 99.00 % 99.00 % 1.239 MHz x dB -26.00 dB x dB Bandwidth 1.242 MHz x dB -26.00 dB 1.4MHz/ 16QAM / MCH 1.4MHz/ 64QAM/ MCH Center Freq: 635.500000 MHz Trig: Free Run Avg|Held>10/10 #Atter: 10 d8 Ref 35.00 dBm Ref 35.00 dBm Center Fre Center Free enter 836.5 MHz les BW 30 kHz Span 2.8 MHz Sweep 3 ms CF Step 280,000 kH: Span 2.8 MHz Sweep 3 ms CF Ste #VBW 91 kHz #VBW 91 kHz 29.8 dBm Total Power 30.5 dBm 1.0972 MHz 1.0924 MHz Freq Offsi 5.214 kHz -1.735 kHz 99.00 % Transmit Freq Error OBW Power 99.00 % 1.239 MHz -26.00 dB 1.245 MHz -26.00 dB











#### LTE Band 5 99%&26dB Bandwidth 3MHz/QPSK / LCH 3MHz/16QAM / LCH 02:43:30 PMDec 27, 2018 Radio Std: None Radio Std: None Center Freq: 825.500000 MHz Trig: Free Run Avg|Held>10/10 Center Freq: 825.500000 MHz Trig: Free Run Avg|Held>10/10 Ref 35.00 dBm Ref 35.00 dB Center Free Center Free CF Step 600,000 kHz Mar Span 6 MHz Sweep 1.533 ms CF Ste 30.3 dBm 2.6980 MHz 2.7017 MHz Freq Offsi nsmit Freq Error 737 Hz 99.00 % Transmit Freq Error 872 Hz OBW Power 99.00 % 2.969 MHz -26.00 dB 3.008 MHz x dB -26.00 dB 3MHz/64QAM/LCH 3MHz/QPSK / MCH Radio Std. None Radio Std: None Center Freq: 825.500000 MHz Trig: Free Run Avg|Heid>10/10 17.420 dB Ref 35.00 dE Ref 35.00 dB Center Fre Center Free Span 6 MH: Sweep 1.533 m 31.2 dBm 2.7028 MHz 2.7017 MHz Freq Offsi 99.00 % 99.00 % x dB Bandwidth 2.989 MHz -26.00 dB 2.998 MHz x dB -26.00 dB 3MHz/16QAM/MCH 3MHz/ 64QAM/ MCH Ref 35.00 dBm Ref 35.00 dBn Center Fre Center Fred CF Step 600,000 NH Span 6 MHz Sweep 1.533 ms Span 6 MHz Sweep 1.533 ms CF Ste 30.4 dBm Total Power 30.8 dBm 2.6999 MHz 2.7006 MHz Freq Offsi 4.245 kHz 2.727 kHz 99.00 % Transmit Freq Error OBW Power 3.001 MHz -26.00 dB -26.00 dB













