

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: LTE CatM1 B2 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.82	22.72	22.92	/	2.96	25.78	25.68	25.88	33.01	PASS
		2	22.68	22.69	22.91	/	2.96	25.64	25.65	25.87	33.01	PASS
		5	22.63	22.7	22.85	/	2.96	25.59	25.66	25.81	33.01	PASS
	3	0	22.64	22.63	22.81	/	2.96	25.6	25.59	25.77	33.01	PASS
		2	22.51	22.63	22.85	/	2.96	25.47	25.59	25.81	33.01	PASS
		3	22.45	22.63	22.69	/	2.96	25.41	25.59	25.65	33.01	PASS
	6	0	21.63	21.72	21.98	/	2.96	24.59	24.68	24.94	33.01	PASS
		0	21.77	21.91	22.24	/	2.96	24.73	24.87	25.2	33.01	PASS
		0	21.61	21.91	22.41	/	2.96	24.57	24.87	25.37	33.01	PASS
16QAM	1	2	21.43	21.8	22.44	/	2.96	24.39	24.76	25.4	33.01	PASS
		0	21.4	21.84	21.73	/	2.96	24.36	24.8	24.69	33.01	PASS
		2	21.57	21.86	21.8	/	2.96	24.53	24.82	24.76	33.01	PASS
	3	3	21.53	21.78	21.8	/	2.96	24.49	24.74	24.76	33.01	PASS
		0	21.14	20.87	20.89	/	2.96	24.1	23.83	23.85	33.01	PASS
		0	21.14	20.87	20.89	/	2.96	24.1	23.83	23.85	33.01	PASS
	6	0	21.14	20.87	20.89	/	2.96	24.1	23.83	23.85	33.01	PASS
		0	21.14	20.87	20.89	/	2.96	24.1	23.83	23.85	33.01	PASS
		0	21.14	20.87	20.89	/	2.96	24.1	23.83	23.85	33.01	PASS

Test Band: LTE CatM1 B2 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.98	22.85	22.99	/	2.96	25.94	25.81	25.95	33.01	PASS
		2	22.74	22.86	22.8	/	2.96	25.7	25.82	25.76	33.01	PASS
		5	22.79	22.75	22.78	/	2.96	25.75	25.71	25.74	33.01	PASS
	3	0	21.63	21.65	21.85	/	2.96	24.59	24.61	24.81	33.01	PASS
		2	21.41	21.68	21.87	/	2.96	24.37	24.64	24.83	33.01	PASS
		3	21.38	21.6	21.71	/	2.96	24.34	24.56	24.67	33.01	PASS
	6	0	21.58	21.71	22	/	2.96	24.54	24.67	24.96	33.01	PASS
		0	22.14	21.91	21.85	/	2.96	25.1	24.87	24.81	33.01	PASS
		0	21.81	21.83	21.93	/	2.96	24.77	24.79	24.89	33.01	PASS
16QAM	1	5	21.87	21.68	21.86	/	2.96	24.83	24.64	24.82	33.01	PASS
		0	20.66	20.8	20.56	/	2.96	23.62	23.76	23.52	33.01	PASS
		2	20.74	20.77	20.55	/	2.96	23.7	23.73	23.51	33.01	PASS
	3	3	20.7	20.72	20.56	/	2.96	23.66	23.68	23.52	33.01	PASS
		0	21.04	20.85	20.78	/	2.96	24	23.81	23.74	33.01	PASS
		0	21.04	20.85	20.78	/	2.96	24	23.81	23.74	33.01	PASS
	6	0	21.04	20.85	20.78	/	2.96	24	23.81	23.74	33.01	PASS
		0	21.04	20.85	20.78	/	2.96	24	23.81	23.74	33.01	PASS
		0	21.04	20.85	20.78	/	2.96	24	23.81	23.74	33.01	PASS

Test Band: LTE CatM1 B2 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.79	22.93	22.94	/	2.96	25.75	25.89	25.9	33.01	PASS
		2	22.65	22.68	22.86	/	2.96	25.61	25.64	25.82	33.01	PASS
		5	22.56	22.52	22.87	/	2.96	25.52	25.48	25.83	33.01	PASS
	3	0	21.4	21.76	21.96	/	2.96	24.36	24.72	24.92	33.01	PASS
		2	21.38	21.62	21.87	/	2.96	24.34	24.58	24.83	33.01	PASS
		3	21.39	21.56	21.75	/	2.96	24.35	24.52	24.71	33.01	PASS
	6	0	21.22	21.72	21.93	/	2.96	24.18	24.68	24.89	33.01	PASS
		0	21.62	22.21	21.94	/	2.96	24.58	25.17	24.9	33.01	PASS
		0	21.47	21.99	22.05	/	2.96	24.43	24.95	25.01	33.01	PASS
16QAM	1	5	21.35	21.95	22.04	/	2.96	24.31	24.91	25	33.01	PASS
		0	20.38	20.84	20.48	/	2.96	23.34	23.8	23.44	33.01	PASS
		2	20.52	20.74	20.37	/	2.96	23.48	23.7	23.33	33.01	PASS
	3	3	20.58	20.69	20.57	/	2.96	23.54	23.65	23.53	33.01	PASS
		0	20.59	20.74	20.89	/	2.96	23.55	23.7	23.85	33.01	PASS
		0	20.59	20.74	20.89	/	2.96	23.55	23.7	23.85	33.01	PASS
	6	0	20.59	20.74	20.89	/	2.96	23.55	23.7	23.85	33.01	PASS
		0	20.59	20.74	20.89	/	2.96	23.55	23.7	23.85	33.01	PASS
		0	20.59	20.74	20.89	/	2.96	23.55	23.7	23.85	33.01	PASS

Test Band: LTE CatM1 B2_ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.98	22.92	22.92	/	2.96	25.94	25.88	25.88	33.01	PASS
		2	22.82	22.69	22.76	/	2.96	25.78	25.65	25.72	33.01	PASS
		5	22.83	22.6	22.67	/	2.96	25.79	25.56	25.63	33.01	PASS
	3	0	21.48	21.59	21.99	/	2.96	24.44	24.55	24.95	33.01	PASS
		2	21.46	21.6	21.88	/	2.96	24.42	24.56	24.84	33.01	PASS
		3	21.56	21.59	21.76	/	2.96	24.52	24.55	24.72	33.01	PASS
16QAM	1	0	21.43	21.72	21.95	/	2.96	24.39	24.68	24.91	33.01	PASS
			21.97	22.1	22.15	/	2.96	24.93	25.06	25.11	33.01	PASS
		2	21.74	21.65	22.07	/	2.96	24.7	24.61	25.03	33.01	PASS
	3	0	20.36	20.78	20.58	/	2.96	23.32	23.74	23.54	33.01	PASS
		2	20.6	20.79	20.37	/	2.96	23.56	23.75	23.33	33.01	PASS
		3	20.66	20.8	20.57	/	2.96	23.62	23.76	23.53	33.01	PASS
	6	0	20.74	20.8	20.94	/	2.96	23.7	23.76	23.9	33.01	PASS

Test Band: LTE CatM1 B2_ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.95	22.91	22.94	/	2.96	25.91	25.87	25.9	33.01	PASS
		2	22.58	22.57	22.79	/	2.96	25.54	25.53	25.75	33.01	PASS
		5	22.55	22.67	22.86	/	2.96	25.51	25.63	25.82	33.01	PASS
	3	0	21.44	21.5	21.69	/	2.96	24.4	24.46	24.65	33.01	PASS
		2	21.35	21.58	21.67	/	2.96	24.31	24.54	24.63	33.01	PASS
		3	21.52	21.49	21.51	/	2.96	24.48	24.45	24.47	33.01	PASS
16QAM	1	0	21.32	21.54	21.74	/	2.96	24.28	24.5	24.7	33.01	PASS
			21.8	22.07	21.8	/	2.96	24.76	25.03	24.76	33.01	PASS
		2	21.43	21.57	21.89	/	2.96	24.39	24.53	24.85	33.01	PASS
	3	0	20.48	20.66	20.21	/	2.96	23.44	23.62	23.17	33.01	PASS
		2	20.53	20.69	20.12	/	2.96	23.49	23.65	23.08	33.01	PASS
		3	20.59	20.68	20.26	/	2.96	23.55	23.64	23.22	33.01	PASS
	6	0	20.72	20.7	20.73	/	2.96	23.68	23.66	23.69	33.01	PASS

Test Band: LTE CatM1 B2_ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.75	23	22.67	/	2.96	25.71	25.96	25.63	33.01	PASS
		2	22.59	22.71	22.68	/	2.96	25.55	25.67	25.64	33.01	PASS
		5	22.24	22.6	22.71	/	2.96	25.2	25.56	25.67	33.01	PASS
	3	0	21.48	21.57	21.59	/	2.96	24.44	24.53	24.55	33.01	PASS
		2	21.42	21.56	21.61	/	2.96	24.38	24.52	24.57	33.01	PASS
		3	21.49	21.44	21.58	/	2.96	24.45	24.4	24.54	33.01	PASS
16QAM	1	0	21.3	21.6	21.78	/	2.96	24.26	24.56	24.74	33.01	PASS
			21.63	21.76	21.98	/	2.96	24.59	24.72	24.94	33.01	PASS
		2	21.5	21.23	21.86	/	2.96	24.46	24.19	24.82	33.01	PASS
	3	0	20.36	20.68	20.18	/	2.96	23.32	23.64	23.14	33.01	PASS
		2	20.52	20.66	20.14	/	2.96	23.48	23.62	23.1	33.01	PASS
		3	20.58	20.51	20.34	/	2.96	23.54	23.47	23.3	33.01	PASS
	6	0	20.67	20.7	20.63	/	2.96	23.63	23.66	23.59	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

2. Effective (Isotropic) Radiated Power Output Data

2.1 Test Result

Test Band: LTE CatM1 B4 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.27	22.75	22.96	/	3.44	26.71	26.19	26.4	30.00	PASS
		2	23.46	22.79	22.93	/	3.44	26.9	26.23	26.37	30.00	PASS
		5	23.09	22.5	22.92	/	3.44	26.53	25.94	26.36	30.00	PASS
	3	0	23.13	22.54	22.94	/	3.44	26.57	25.98	26.38	30.00	PASS
		2	23.07	22.7	22.95	/	3.44	26.51	26.14	26.39	30.00	PASS
		3	23.17	22.66	22.76	/	3.44	26.61	26.1	26.2	30.00	PASS
	6	0	21.7	21.67	21.87	/	3.44	25.14	25.11	25.31	30.00	PASS
		2	22.1	21.72	21.9	/	3.44	25.54	25.16	25.34	30.00	PASS
		5	22.15	21.7	22.2	/	3.44	25.59	25.14	25.64	30.00	PASS
16QAM	1	0	22	21.56	21.82	/	3.44	25.44	25	25.26	30.00	PASS
		2	22.06	21.79	21.86	/	3.44	25.5	25.23	25.3	30.00	PASS
		3	22.22	21.77	21.86	/	3.44	25.66	25.21	25.3	30.00	PASS
	3	0	20.94	20.76	21.14	/	3.44	24.38	24.2	24.58	30.00	PASS
		2	22.41	21.7	22.11	/	3.44	25.85	25.14	25.55	30.00	PASS
		5	22.15	21.7	22.2	/	3.44	25.59	25.14	25.64	30.00	PASS
	6	0	22.1	21.67	21.87	/	3.44	25.14	25.11	25.31	30.00	PASS
		2	22.06	21.79	21.86	/	3.44	25.5	25.23	25.3	30.00	PASS
		3	22.22	21.77	21.86	/	3.44	25.66	25.21	25.3	30.00	PASS

Test Band: LTE CatM1 B4 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.31	22.77	23.04	/	3.44	26.75	26.21	26.48	30.00	PASS
		2	23.48	22.69	22.9	/	3.44	26.92	26.13	26.34	30.00	PASS
		5	23.08	22.49	22.95	/	3.44	26.52	25.93	26.39	30.00	PASS
	3	0	22.14	21.63	21.97	/	3.44	25.58	25.07	25.41	30.00	PASS
		2	22.04	21.74	22.03	/	3.44	25.48	25.18	25.47	30.00	PASS
		3	22.24	21.68	21.88	/	3.44	25.68	25.12	25.32	30.00	PASS
	6	0	21.68	21.69	21.86	/	3.44	25.12	25.13	25.3	30.00	PASS
		2	22.12	21.71	21.91	/	3.44	25.56	25.15	25.35	30.00	PASS
		5	22.49	21.76	21.96	/	3.44	25.93	25.2	25.4	30.00	PASS
16QAM	1	0	22.17	21.76	22.12	/	3.44	25.61	25.2	25.56	30.00	PASS
		2	21.06	20.72	20.89	/	3.44	24.5	24.16	24.33	30.00	PASS
		3	21.12	20.86	20.87	/	3.44	24.56	24.3	24.31	30.00	PASS
	3	0	21.28	20.87	20.89	/	3.44	24.72	24.31	24.33	30.00	PASS
		2	21.12	20.86	20.87	/	3.44	24.56	24.3	24.31	30.00	PASS
		3	21.28	20.87	20.89	/	3.44	24.72	24.31	24.33	30.00	PASS
	6	0	20.86	20.86	21.01	/	3.44	24.3	24.3	24.45	30.00	PASS
		2	22.17	22.09	22.04	/	3.44	25.61	25.53	25.48	30.00	PASS
		5	21.87	22.07	22.33	/	3.44	25.31	25.51	25.77	30.00	PASS

Test Band: LTE CatM1 B4 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.32	22.88	23.03	/	3.44	26.76	26.32	26.47	30.00	PASS
		2	23.43	22.95	22.96	/	3.44	26.87	26.39	26.4	30.00	PASS
		5	23.01	22.52	22.99	/	3.44	26.45	25.96	26.43	30.00	PASS
	3	0	22.08	21.63	22.13	/	3.44	25.52	25.07	25.57	30.00	PASS
		2	22.06	21.84	21.96	/	3.44	25.5	25.28	25.4	30.00	PASS
		3	22.26	21.73	21.76	/	3.44	25.7	25.17	25.2	30.00	PASS
	6	0	21.71	21.8	21.95	/	3.44	25.15	25.24	25.39	30.00	PASS
		2	22.03	22.22	22.01	/	3.44	25.47	25.66	25.45	30.00	PASS
		5	22.17	22.09	22.04	/	3.44	25.61	25.53	25.48	30.00	PASS
16QAM	1	0	21.03	20.7	20.99	/	3.44	24.47	24.14	24.43	30.00	PASS
		2	21.06	20.86	20.78	/	3.44	24.5	24.3	24.22	30.00	PASS
		3	21.22	20.9	20.93	/	3.44	24.66	24.34	24.37	30.00	PASS
	3	0	21.01	20.83	21.17	/	3.44	24.45	24.27	24.61	30.00	PASS
		2	22.17	22.09	22.04	/	3.44	25.61	25.53	25.48	30.00	PASS
		5	21.87	22.07	22.33	/	3.44	25.31	25.51	25.77	30.00	PASS
	6	0	21.03	20.7	20.99	/	3.44	24.47	24.14	24.43	30.00	PASS
		2	21.06	20.86	20.78	/	3.44	24.5	24.3	24.22	30.00	PASS
		3	21.22	20.9	20.93	/	3.44	24.66	24.34	24.37	30.00	PASS

Test Band: LTE CatM1 B4 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.33	23.02	23.13	/	3.44	26.77	26.46	26.57	30.00	PASS
		2	23.48	23.38	22.78	/	3.44	26.92	26.82	26.22	30.00	PASS
		5	22.94	22.69	23.19	/	3.44	26.38	26.13	26.63	30.00	PASS
	3	0	22.2	21.66	21.93	/	3.44	25.64	25.1	25.37	30.00	PASS
		2	22.09	21.8	21.91	/	3.44	25.53	25.24	25.35	30.00	PASS
		3	22.3	21.85	21.83	/	3.44	25.74	25.29	25.27	30.00	PASS
16QAM	1	0	21.84	21.71	21.92	/	3.44	25.28	25.15	25.36	30.00	PASS
			22.33	21.95	22.25	/	3.44	25.77	25.39	25.69	30.00	PASS
		2	22.34	21.74	22	/	3.44	25.78	25.18	25.44	30.00	PASS
	3	5	22.11	22.07	22.44	/	3.44	25.55	25.51	25.88	30.00	PASS
		0	21.01	20.76	20.87	/	3.44	24.45	24.2	24.31	30.00	PASS
		2	21.11	20.93	20.79	/	3.44	24.55	24.37	24.23	30.00	PASS
	6	3	21.27	20.99	21.01	/	3.44	24.71	24.43	24.45	30.00	PASS
		0	20.97	20.87	21.13	/	3.44	24.41	24.31	24.57	30.00	PASS

Test Band: LTE CatM1 B4 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.12	22.82	22.84	/	3.44	26.56	26.26	26.28	30.00	PASS
		2	23.17	22.69	22.61	/	3.44	26.61	26.13	26.05	30.00	PASS
		5	22.47	22.22	22.79	/	3.44	25.91	25.66	26.23	30.00	PASS
	3	0	21.88	21.6	21.65	/	3.44	25.32	25.04	25.09	30.00	PASS
		2	21.9	21.64	21.75	/	3.44	25.34	25.08	25.19	30.00	PASS
		3	21.96	21.55	21.49	/	3.44	25.4	24.99	24.93	30.00	PASS
16QAM	1	6	21.43	21.56	21.5	/	3.44	24.87	25	24.94	30.00	PASS
		0	21.72	21.85	21.91	/	3.44	25.16	25.29	25.35	30.00	PASS
		2	21.86	21.67	21.76	/	3.44	25.3	25.11	25.2	30.00	PASS
	3	5	21.42	21.52	22.06	/	3.44	24.86	24.96	25.5	30.00	PASS
		0	20.95	20.75	20.49	/	3.44	24.39	24.19	23.93	30.00	PASS
		2	20.91	20.82	20.52	/	3.44	24.35	24.26	23.96	30.00	PASS
	6	3	21.07	20.69	20.53	/	3.44	24.51	24.13	23.97	30.00	PASS
		0	20.65	20.71	20.78	/	3.44	24.09	24.15	24.22	30.00	PASS

Test Band: LTE CatM1 B4 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.82	22.73	22.5	/	3.44	26.26	26.17	25.94	30.00	PASS
		2	23.12	22.78	22.64	/	3.44	26.56	26.22	26.08	30.00	PASS
		5	22.49	22.32	22.65	/	3.44	25.93	25.76	26.09	30.00	PASS
	3	0	21.85	21.65	21.65	/	3.44	25.29	25.09	25.09	30.00	PASS
		2	21.8	21.62	21.62	/	3.44	25.24	25.06	25.06	30.00	PASS
		3	21.83	21.5	21.48	/	3.44	25.27	24.94	24.92	30.00	PASS
16QAM	1	6	21.44	21.53	21.6	/	3.44	24.88	24.97	25.04	30.00	PASS
		0	21.63	21.4	21.71	/	3.44	25.07	24.84	25.15	30.00	PASS
		2	21.94	21.24	22.02	/	3.44	25.38	24.68	25.46	30.00	PASS
	3	5	21.52	21.11	22.32	/	3.44	24.96	24.55	25.76	30.00	PASS
		0	20.71	20.68	20.47	/	3.44	24.15	24.12	23.91	30.00	PASS
		2	20.72	20.76	20.49	/	3.44	24.16	24.2	23.93	30.00	PASS
	6	3	20.88	20.63	20.62	/	3.44	24.32	24.07	24.06	30.00	PASS
		0	20.6	20.7	20.7	/	3.44	24.04	24.14	24.14	30.00	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3. Effective (Isotropic) Radiated Power Output Data

3.1 Test Result

Test Band: LTE CatM1 B12 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.23	23.02	23.23	-1.06	1.09	22.17	21.96	22.17	34.77	PASS
		2	23.31	23.17	23.19	-1.06	1.09	22.25	22.11	22.13	34.77	PASS
		5	22.91	22.95	23.2	-1.06	1.09	21.85	21.89	22.14	34.77	PASS
	3	0	22.97	22.92	23.43	-1.06	1.09	21.91	21.86	22.37	34.77	PASS
		2	22.92	23.14	23.46	-1.06	1.09	21.86	22.08	22.4	34.77	PASS
		3	23.01	23.07	23.2	-1.06	1.09	21.95	22.01	22.14	34.77	PASS
	6	0	21.64	22.12	22.5	-1.06	1.09	20.58	21.06	21.44	34.77	PASS
16QAM	1	0	21.85	22.28	22.06	-1.06	1.09	20.79	21.22	21	34.77	PASS
		2	22.05	22.37	22.53	-1.06	1.09	20.99	21.31	21.47	34.77	PASS
		5	21.87	22.43	22.6	-1.06	1.09	20.81	21.37	21.54	34.77	PASS
	3	0	21.93	22.01	22.22	-1.06	1.09	20.87	20.95	21.16	34.77	PASS
		2	21.97	22.22	22.26	-1.06	1.09	20.91	21.16	21.2	34.77	PASS
		3	22.13	22.26	22.25	-1.06	1.09	21.07	21.2	21.19	34.77	PASS
	6	0	20.9	21.25	21.7	-1.06	1.09	19.84	20.19	20.64	34.77	PASS

Test Band: LTE CatM1 B12 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.32	23.01	23.29	-1.06	1.09	22.26	21.95	22.23	34.77	PASS
		2	23.45	23.22	23.23	-1.06	1.09	22.39	22.16	22.17	34.77	PASS
		5	23.02	22.95	23.28	-1.06	1.09	21.96	21.89	22.22	34.77	PASS
	3	0	22.1	21.97	22.57	-1.06	1.09	21.04	20.91	21.51	34.77	PASS
		2	22	22.2	22.56	-1.06	1.09	20.94	21.14	21.5	34.77	PASS
		3	22.09	22.15	22.3	-1.06	1.09	21.03	21.09	21.24	34.77	PASS
	6	0	21.7	22.14	22.55	-1.06	1.09	20.64	21.08	21.49	34.77	PASS
16QAM	1	0	22.19	22	22.16	-1.06	1.09	21.13	20.94	21.1	34.77	PASS
		2	22.34	22.11	22.6	-1.06	1.09	21.28	21.05	21.54	34.77	PASS
		5	22.05	22.17	22.64	-1.06	1.09	20.99	21.11	21.58	34.77	PASS
	3	0	21	21.07	21.45	-1.06	1.09	19.94	20.01	20.39	34.77	PASS
		2	21.08	21.23	21.37	-1.06	1.09	20.02	20.17	20.31	34.77	PASS
		3	21.24	21.31	21.4	-1.06	1.09	20.18	20.25	20.34	34.77	PASS
	6	0	20.89	21.24	21.6	-1.06	1.09	19.83	20.18	20.54	34.77	PASS

Test Band: LTE CatM1 B12 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.32	23.02	23.32	-1.06	1.09	22.26	21.96	22.26	34.77	PASS
		2	23.48	23.11	23.33	-1.06	1.09	22.42	22.05	22.27	34.77	PASS
		5	23.13	23.01	23.36	-1.06	1.09	22.07	21.95	22.3	34.77	PASS
	3	0	22.13	22.11	22.51	-1.06	1.09	21.07	21.05	21.45	34.77	PASS
		2	22.14	22.23	22.52	-1.06	1.09	21.08	21.17	21.46	34.77	PASS
		3	22.31	22.25	22.26	-1.06	1.09	21.25	21.19	21.2	34.77	PASS
	6	0	21.85	22.22	22.43	-1.06	1.09	20.79	21.16	21.37	34.77	PASS
16QAM	1	0	21.93	22.3	22.3	-1.06	1.09	20.87	21.24	21.24	34.77	PASS
		2	22.22	22.47	22.54	-1.06	1.09	21.16	21.41	21.48	34.77	PASS
		5	21.95	22.6	22.64	-1.06	1.09	20.89	21.54	21.58	34.77	PASS
	3	0	21.07	21.13	21.38	-1.06	1.09	20.01	20.07	20.32	34.77	PASS
		2	21.14	21.3	21.33	-1.06	1.09	20.08	20.24	20.27	34.77	PASS
		3	21.3	21.36	21.36	-1.06	1.09	20.24	20.3	20.3	34.77	PASS
	6	0	21.14	21.24	21.63	-1.06	1.09	20.08	20.18	20.57	34.77	PASS

Test Band: LTE CatM1 B12 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.32	23.33	23.24	-1.06	1.09	22.26	22.27	22.18	34.77	PASS
		2	23.5	23.31	23.32	-1.06	1.09	22.44	22.25	22.26	34.77	PASS
		5	23.12	23.2	23.27	-1.06	1.09	22.06	22.14	22.21	34.77	PASS
	3	0	22.35	22.2	22.63	-1.06	1.09	21.29	21.14	21.57	34.77	PASS
		2	22.31	22.29	22.51	-1.06	1.09	21.25	21.23	21.45	34.77	PASS
		3	22.43	22.31	22.32	-1.06	1.09	21.37	21.25	21.26	34.77	PASS
	6	0	21.93	22.21	22.55	-1.06	1.09	20.87	21.15	21.49	34.77	PASS
			22.45	22.31	22.57	-1.06	1.09	21.39	21.25	21.51	34.77	PASS
		2	22.41	22.12	22.69	-1.06	1.09	21.35	21.06	21.63	34.77	PASS
16QAM	1	5	22.46	22.33	22.8	-1.06	1.09	21.4	21.27	21.74	34.77	PASS
		0	21.23	21.26	21.55	-1.06	1.09	20.17	20.2	20.49	34.77	PASS
		2	21.25	21.44	21.38	-1.06	1.09	20.19	20.38	20.32	34.77	PASS
	3	3	21.41	21.46	21.46	-1.06	1.09	20.35	20.4	20.4	34.77	PASS
		0	21.16	21.29	21.67	-1.06	1.09	20.1	20.23	20.61	34.77	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

4. Effective (Isotropic) Radiated Power Output Data

4.1 Test Result

Test Band: LTE CatM1 B13 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.44	23.42	23.38	-0.43	1.72	23.01	22.99	22.95	34.77	PASS
		2	23.9	23.55	23.76	-0.43	1.72	23.47	23.12	23.33	34.77	PASS
		5	23.03	23.32	23.84	-0.43	1.72	22.6	22.89	23.41	34.77	PASS
	3	0	22.62	22.49	23	-0.43	1.72	22.19	22.06	22.57	34.77	PASS
		2	22.69	22.71	23.02	-0.43	1.72	22.26	22.28	22.59	34.77	PASS
		3	22.93	22.72	22.73	-0.43	1.72	22.5	22.29	22.3	34.77	PASS
	6	0	22.17	22.65	22.83	-0.43	1.72	21.74	22.22	22.4	34.77	PASS
		2	22.2	22.68	22.71	-0.43	1.72	21.77	22.25	22.28	34.77	PASS
		5	22.75	22.83	22.97	-0.43	1.72	22.32	22.4	22.54	34.77	PASS
16QAM	1	0	21.53	21.48	21.68	-0.43	1.72	21.1	21.05	21.25	34.77	PASS
		2	21.58	21.77	21.6	-0.43	1.72	21.15	21.34	21.17	34.77	PASS
		3	21.84	21.85	21.68	-0.43	1.72	21.41	21.42	21.25	34.77	PASS
	3	0	21.3	21.67	22.09	-0.43	1.72	20.87	21.24	21.66	34.77	PASS
		2	22.75	22.83	22.97	-0.43	1.72	22.32	22.4	22.54	34.77	PASS
		5	22.36	23.06	23.15	-0.43	1.72	21.93	22.63	22.72	34.77	PASS
	6	0	21.53	21.48	21.68	-0.43	1.72	21.1	21.05	21.25	34.77	PASS
		2	21.58	21.77	21.6	-0.43	1.72	21.15	21.34	21.17	34.77	PASS
		3	21.84	21.85	21.68	-0.43	1.72	21.41	21.42	21.25	34.77	PASS

Test Band: LTE CatM1 B13 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	23.58	/	-0.43	1.72	/	23.15	/	34.77	PASS
		2	/	23.61	/	-0.43	1.72	/	23.18	/	34.77	PASS
		5	/	23.54	/	-0.43	1.72	/	23.11	/	34.77	PASS
	3	0	/	22.56	/	-0.43	1.72	/	22.13	/	34.77	PASS
		2	/	22.6	/	-0.43	1.72	/	22.17	/	34.77	PASS
		3	/	22.6	/	-0.43	1.72	/	22.17	/	34.77	PASS
	6	0	/	22.51	/	-0.43	1.72	/	22.08	/	34.77	PASS
		2	/	22.56	/	-0.43	1.72	/	22.13	/	34.77	PASS
		5	/	22.45	/	-0.43	1.72	/	22.02	/	34.77	PASS
16QAM	1	0	/	21.55	/	-0.43	1.72	/	21.12	/	34.77	PASS
		2	/	21.65	/	-0.43	1.72	/	21.22	/	34.77	PASS
		3	/	21.64	/	-0.43	1.72	/	21.21	/	34.77	PASS
	3	0	/	21.53	/	-0.43	1.72	/	21.1	/	34.77	PASS
		2	/	22.45	/	-0.43	1.72	/	22.02	/	34.77	PASS
		5	/	22.6	/	-0.43	1.72	/	22.17	/	34.77	PASS
	6	0	/	21.55	/	-0.43	1.72	/	21.12	/	34.77	PASS
		2	/	21.65	/	-0.43	1.72	/	21.22	/	34.77	PASS
		3	/	21.64	/	-0.43	1.72	/	21.21	/	34.77	PASS

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

5. Effective (Isotropic) Radiated Power Output Data

5.1 Test Result

Test Band: LTE CatM1 B25 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.16	22.93	23.29	/	2.96	26.12	25.89	26.25	33.01	PASS
		2	23.02	22.9	23.28	/	2.96	25.98	25.86	26.24	33.01	PASS
		5	22.97	22.91	23.22	/	2.96	25.93	25.87	26.18	33.01	PASS
	3	0	22.98	22.84	23.18	/	2.96	25.94	25.8	26.14	33.01	PASS
		2	22.85	22.84	23.22	/	2.96	25.81	25.8	26.18	33.01	PASS
		3	22.79	22.84	23.06	/	2.96	25.75	25.8	26.02	33.01	PASS
	6	0	21.97	21.93	22.35	/	2.96	24.93	24.89	25.31	33.01	PASS
		2	22.11	22.12	22.61	/	2.96	25.07	25.08	25.57	33.01	PASS
		5	21.77	22.01	22.81	/	2.96	24.73	24.97	25.77	33.01	PASS
16QAM	1	0	21.74	22.05	22.1	/	2.96	24.7	25.01	25.06	33.01	PASS
		2	21.91	22.07	22.17	/	2.96	24.87	25.03	25.13	33.01	PASS
		3	21.87	21.99	22.17	/	2.96	24.83	24.95	25.13	33.01	PASS
	3	0	21.48	21.08	21.26	/	2.96	24.44	24.04	24.22	33.01	PASS
		2	21.95	22.12	22.78	/	2.96	24.91	25.08	25.74	33.01	PASS
		5	21.77	22.01	22.81	/	2.96	24.73	24.97	25.77	33.01	PASS
	6	0	21.97	21.93	22.35	/	2.96	24.93	24.89	25.31	33.01	PASS
		2	22.11	22.12	22.61	/	2.96	25.07	25.08	25.57	33.01	PASS
		5	21.77	22.01	22.81	/	2.96	24.73	24.97	25.77	33.01	PASS

Test Band: LTE CatM1 B25 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.32	23.06	23.36	/	2.96	26.28	26.02	26.32	33.01	PASS
		2	23.08	23.07	23.17	/	2.96	26.04	26.03	26.13	33.01	PASS
		5	23.13	22.96	23.15	/	2.96	26.09	25.92	26.11	33.01	PASS
	3	0	21.97	21.86	22.22	/	2.96	24.93	24.82	25.18	33.01	PASS
		2	21.75	21.89	22.24	/	2.96	24.71	24.85	25.2	33.01	PASS
		3	21.72	21.81	22.08	/	2.96	24.68	24.77	25.04	33.01	PASS
	6	0	21.92	21.92	22.37	/	2.96	24.88	24.88	25.33	33.01	PASS
		2	22.48	22.12	22.22	/	2.96	25.44	25.08	25.18	33.01	PASS
		5	22.15	22.04	22.3	/	2.96	25.11	25	25.26	33.01	PASS
16QAM	1	0	22.21	21.89	22.23	/	2.96	25.17	24.85	25.19	33.01	PASS
		2	22.21	21.89	22.23	/	2.96	25.17	24.85	25.19	33.01	PASS
		5	22.21	21.89	22.23	/	2.96	25.17	24.85	25.19	33.01	PASS
	3	0	21.08	20.98	20.93	/	2.96	24.04	23.94	23.88	33.01	PASS
		2	21.08	20.98	20.92	/	2.96	24.04	23.94	23.88	33.01	PASS
		3	21.04	20.93	20.93	/	2.96	24	23.89	23.89	33.01	PASS
	6	0	21.38	21.06	21.15	/	2.96	24.34	24.02	24.11	33.01	PASS
		2	21.38	21.06	21.15	/	2.96	24.34	24.02	24.11	33.01	PASS
		5	21.38	21.06	21.15	/	2.96	24.34	24.02	24.11	33.01	PASS

Test Band: LTE CatM1 B25 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.13	23.14	23.49	/	2.96	26.09	26.1	26.45	33.01	PASS
		2	22.99	22.89	23.23	/	2.96	25.95	25.85	26.19	33.01	PASS
		5	22.9	22.73	23.24	/	2.96	25.86	25.69	26.2	33.01	PASS
	3	0	21.74	21.97	22.33	/	2.96	24.7	24.93	25.29	33.01	PASS
		2	21.72	21.83	22.24	/	2.96	24.68	24.79	25.2	33.01	PASS
		3	21.73	21.77	22.12	/	2.96	24.69	24.73	25.08	33.01	PASS
	6	0	21.56	21.93	22.3	/	2.96	24.52	24.89	25.26	33.01	PASS
		2	21.96	22.42	22.31	/	2.96	24.92	25.38	25.27	33.01	PASS
		5	21.81	22.2	22.42	/	2.96	24.77	25.16	25.38	33.01	PASS
16QAM	1	0	20.72	21.05	20.85	/	2.96	23.68	24.01	23.81	33.01	PASS
		2	20.86	20.95	20.74	/	2.96	23.82	23.91	23.7	33.01	PASS
		3	20.92	20.9	20.94	/	2.96	23.88	23.86	23.9	33.01	PASS
	3	0	20.93	20.95	21.26	/	2.96	23.89	23.91	24.22	33.01	PASS
		2	20.93	20.95	21.26	/	2.96	23.89	23.91	24.22	33.01	PASS
		5	20.93	20.95	21.26	/	2.96	23.89	23.91	24.22	33.01	PASS
	6	0	20.93	20.95	21.26	/	2.96	23.89	23.91	24.22	33.01	PASS
		2	20.93	20.95	21.26	/	2.96	23.89	23.91	24.22	33.01	PASS
		5	20.93	20.95	21.26	/	2.96	23.89	23.91	24.22	33.01	PASS

Test Band: LTE CatM1 B25 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.41	23.28	23.39	/	2.96	26.37	26.24	26.35	33.01	PASS
		2	23.16	22.9	23.13	/	2.96	26.12	25.86	26.09	33.01	PASS
		5	23.17	22.81	23.04	/	2.96	26.13	25.77	26	33.01	PASS
	3	0	21.82	21.8	22.36	/	2.96	24.78	24.76	25.32	33.01	PASS
		2	21.8	21.81	22.25	/	2.96	24.76	24.77	25.21	33.01	PASS
		3	21.9	21.8	22.13	/	2.96	24.86	24.76	25.09	33.01	PASS
	6	0	21.77	21.93	22.32	/	2.96	24.73	24.89	25.28	33.01	PASS
		2	22.31	22.31	22.52	/	2.96	25.27	25.27	25.48	33.01	PASS
		5	22.32	21.84	22.49	/	2.96	25.28	24.8	25.45	33.01	PASS
16QAM	1	0	20.7	20.99	20.95	/	2.96	23.66	23.95	23.91	33.01	PASS
		2	20.94	21	20.74	/	2.96	23.9	23.96	23.7	33.01	PASS
		3	21	21.01	20.94	/	2.96	23.96	23.97	23.9	33.01	PASS
	3	0	21.08	21.01	21.31	/	2.96	24.04	23.97	24.27	33.01	PASS
		2										
		5										
	6	0										
		2										
		5										

Test Band: LTE CatM1 B25 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.45	23.38	23.45	/	2.96	26.41	26.34	26.41	33.01	PASS
		2	22.98	22.86	23.27	/	2.96	25.94	25.82	26.23	33.01	PASS
		5	23.13	23.09	23.29	/	2.96	26.09	26.05	26.25	33.01	PASS
	3	0	21.97	21.85	22.11	/	2.96	24.93	24.81	25.07	33.01	PASS
		2	21.82	21.83	22.08	/	2.96	24.78	24.79	25.04	33.01	PASS
		3	21.92	21.75	21.95	/	2.96	24.88	24.71	24.91	33.01	PASS
	6	0	22.02	21.84	22.25	/	2.96	24.98	24.8	25.21	33.01	PASS
		2	22.55	22.42	22.3	/	2.96	25.51	25.38	25.26	33.01	PASS
		5	22.04	22	22.35	/	2.96	25	24.96	25.31	33.01	PASS
16QAM	1	0	21.04	21.04	20.82	/	2.96	24	24	23.78	33.01	PASS
		2	21.11	20.95	20.76	/	2.96	24.07	23.91	23.72	33.01	PASS
		3	21.07	20.92	20.85	/	2.96	24.03	23.88	23.81	33.01	PASS
	3	0	21.58	21	21.18	/	2.96	24.54	23.96	24.14	33.01	PASS
		2										
		5										
	6	0										
		2										
		5										

Test Band: LTE CatM1 B25 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.25	23.42	23.18	/	2.96	26.21	26.38	26.14	33.01	PASS
		2	22.99	23	23.16	/	2.96	25.95	25.96	26.12	33.01	PASS
		5	22.82	23.02	23.14	/	2.96	25.78	25.98	26.1	33.01	PASS
	3	0	22.01	21.92	22.01	/	2.96	24.97	24.88	24.97	33.01	PASS
		2	21.89	21.81	22.02	/	2.96	24.85	24.77	24.98	33.01	PASS
		3	21.89	21.7	22.02	/	2.96	24.85	24.66	24.98	33.01	PASS
	6	0	22	21.9	22.29	/	2.96	24.96	24.86	25.25	33.01	PASS
		2	22.38	22.11	22.48	/	2.96	25.34	25.07	25.44	33.01	PASS
		5	21.99	21.6	22.34	/	2.96	24.95	24.56	25.3	33.01	PASS
16QAM	1	0	21.77	21.65	22.64	/	2.96	24.73	24.61	25.6	33.01	PASS
		2	20.92	21.06	20.79	/	2.96	23.88	24.02	23.75	33.01	PASS
		3	21.1	20.92	20.78	/	2.96	24.06	23.88	23.74	33.01	PASS
	3	0	21.06	20.75	20.93	/	2.96	24.02	23.71	23.89	33.01	PASS
		2										
		5										
	6	0	21.53	21	21.08	/	2.96	24.49	23.96	24.04	33.01	PASS
		2										
		5										

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)