

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	22.66	22.6	22.78	/	1.97	24.63	24.57	24.75	33.01	PASS
		2	22.51	22.61	22.8	/	1.97	24.48	24.58	24.77	33.01	PASS
		5	22.39	22.49	22.79	/	1.97	24.36	24.46	24.76	33.01	PASS
	3	0	22.45	22.49	22.76	/	1.97	24.42	24.46	24.73	33.01	PASS
		2	22.38	22.59	22.81	/	1.97	24.35	24.56	24.78	33.01	PASS
		3	22.39	22.58	22.62	/	1.97	24.36	24.55	24.59	33.01	PASS
	6	0	21.27	21.63	21.84	/	1.97	23.24	23.6	23.81	33.01	PASS
		0	21.36	21.77	22.11	/	1.97	23.33	23.74	24.08	33.01	PASS
		0	21.46	21.75	22.3	/	1.97	23.43	23.72	24.27	33.01	PASS
16QAM	1	0	21.16	21.74	22.41	/	1.97	23.13	23.71	24.38	33.01	PASS
		0	21.18	21.67	21.97	/	1.97	23.15	23.64	23.94	33.01	PASS
		0	21.33	21.81	22.07	/	1.97	23.3	23.78	24.04	33.01	PASS
	3	2	21.33	21.81	22.07	/	1.97	23.3	23.78	24.04	33.01	PASS
		3	21.39	21.75	22.02	/	1.97	23.36	23.72	23.99	33.01	PASS
		3	21.39	21.75	22.02	/	1.97	23.36	23.72	23.99	33.01	PASS
	6	0	20.62	20.78	20.97	/	1.97	22.59	22.75	22.94	33.01	PASS
		0	20.62	20.78	20.97	/	1.97	22.59	22.75	22.94	33.01	PASS
		0	20.62	20.78	20.97	/	1.97	22.59	22.75	22.94	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	22.82	22.73	22.85	/	1.97	24.79	24.7	24.82	33.01	PASS
		2	22.57	22.78	22.69	/	1.97	24.54	24.75	24.66	33.01	PASS
		5	22.55	22.54	22.72	/	1.97	24.52	24.51	24.69	33.01	PASS
	3	0	21.44	21.51	21.8	/	1.97	23.41	23.48	23.77	33.01	PASS
		2	21.28	21.64	21.83	/	1.97	23.25	23.61	23.8	33.01	PASS
		3	21.32	21.55	21.64	/	1.97	23.29	23.52	23.61	33.01	PASS
	6	0	21.22	21.62	21.86	/	1.97	23.19	23.59	23.83	33.01	PASS
		0	21.73	21.77	21.72	/	1.97	23.7	23.74	23.69	33.01	PASS
		0	21.66	21.67	21.82	/	1.97	23.63	23.64	23.79	33.01	PASS
16QAM	1	2	21.6	21.62	21.83	/	1.97	23.57	23.59	23.8	33.01	PASS
		5	21.6	21.62	21.83	/	1.97	23.57	23.59	23.8	33.01	PASS
		5	21.6	21.62	21.83	/	1.97	23.57	23.59	23.8	33.01	PASS
	3	0	20.44	20.63	20.8	/	1.97	22.41	22.6	22.77	33.01	PASS
		2	20.5	20.72	20.82	/	1.97	22.47	22.69	22.79	33.01	PASS
		3	20.56	20.69	20.78	/	1.97	22.53	22.66	22.75	33.01	PASS
	6	0	20.52	20.76	20.86	/	1.97	22.49	22.73	22.83	33.01	PASS
		0	20.52	20.76	20.86	/	1.97	22.49	22.73	22.83	33.01	PASS
		0	20.52	20.76	20.86	/	1.97	22.49	22.73	22.83	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	/	1.97	24.76	24.9	24.91	33.01	PASS
		2	22.54	22.68	22.86	/	1.97	24.51	24.65	24.83	33.01	PASS
		5	22.56	22.52	22.87	/	1.97	24.53	24.49	24.84	33.01	PASS
	3	0	21.4	21.76	21.96	/	1.97	23.37	23.73	23.93	33.01	PASS
		2	21.38	21.62	21.87	/	1.97	23.35	23.59	23.84	33.01	PASS
		3	21.39	21.56	21.75	/	1.97	23.36	23.53	23.72	33.01	PASS
	6	0	21.22	21.72	21.93	/	1.97	23.19	23.69	23.9	33.01	PASS
		0	21.62	22.21	21.94	/	1.97	23.59	24.18	23.91	33.01	PASS
		2	21.47	21.99	22.05	/	1.97	23.44	23.96	24.02	33.01	PASS
16QAM	1	5	21.35	21.95	22.04	/	1.97	23.32	23.92	24.01	33.01	PASS
		0	20.38	20.84	20.96	/	1.97	22.35	22.81	22.93	33.01	PASS
		2	20.52	20.74	20.91	/	1.97	22.49	22.71	22.88	33.01	PASS
	3	2	20.52	20.74	20.91	/	1.97	22.49	22.71	22.88	33.01	PASS
		3	20.58	20.69	21.01	/	1.97	22.55	22.66	22.98	33.01	PASS
		3	20.58	20.69	21.01	/	1.97	22.55	22.66	22.98	33.01	PASS
	6	0	20.59	20.74	21.05	/	1.97	22.56	22.71	23.02	33.01	PASS
		0	20.59	20.74	21.05	/	1.97	22.56	22.71	23.02	33.01	PASS
		0	20.59	20.74	21.05	/	1.97	22.56	22.71	23.02	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	/	1.97	24.95	24.89	24.89	33.01	PASS
		2	22.71	22.69	22.76	/	1.97	24.68	24.66	24.73	33.01	PASS
		5	22.83	22.6	22.67	/	1.97	24.8	24.57	24.64	33.01	PASS
	3	0	21.48	21.59	21.99	/	1.97	23.45	23.56	23.96	33.01	PASS
		2	21.46	21.6	21.88	/	1.97	23.43	23.57	23.85	33.01	PASS
		3	21.56	21.59	21.76	/	1.97	23.53	23.56	23.73	33.01	PASS
	6	0	21.43	21.72	21.95	/	1.97	23.4	23.69	23.92	33.01	PASS
16QAM	1		21.97	22.1	22.15	/	1.97	23.94	24.07	24.12	33.01	PASS
		2	21.74	21.65	22.07	/	1.97	23.71	23.62	24.04	33.01	PASS
		5	21.98	21.63	22.12	/	1.97	23.95	23.6	24.09	33.01	PASS
	3	0	20.36	20.78	21.06	/	1.97	22.33	22.75	23.03	33.01	PASS
		2	20.6	20.79	20.91	/	1.97	22.57	22.76	22.88	33.01	PASS
		3	20.66	20.8	21.01	/	1.97	22.63	22.77	22.98	33.01	PASS
	6	0	20.74	20.8	21.1	/	1.97	22.71	22.77	23.07	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	/	1.97	24.92	24.88	24.91	33.01	PASS
		2	22.47	22.57	22.79	/	1.97	24.44	24.54	24.76	33.01	PASS
		5	22.55	22.67	22.86	/	1.97	24.52	24.64	24.83	33.01	PASS
	3	0	21.44	21.5	21.69	/	1.97	23.41	23.47	23.66	33.01	PASS
		2	21.35	21.58	21.67	/	1.97	23.32	23.55	23.64	33.01	PASS
		3	21.52	21.49	21.51	/	1.97	23.49	23.46	23.48	33.01	PASS
	6	0	21.32	21.54	21.74	/	1.97	23.29	23.51	23.71	33.01	PASS
16QAM	1		21.8	22.07	21.8	/	1.97	23.77	24.04	23.77	33.01	PASS
		2	21.43	21.57	21.89	/	1.97	23.4	23.54	23.86	33.01	PASS
		5	21.43	21.73	21.95	/	1.97	23.4	23.7	23.92	33.01	PASS
	3	0	20.48	20.66	20.69	/	1.97	22.45	22.63	22.66	33.01	PASS
		2	20.53	20.69	20.66	/	1.97	22.5	22.66	22.63	33.01	PASS
		3	20.59	20.68	20.7	/	1.97	22.56	22.65	22.67	33.01	PASS
	6	0	20.72	20.7	20.89	/	1.97	22.69	22.67	22.86	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	/	1.97	24.72	24.97	24.64	33.01	PASS
		2	22.48	22.71	22.68	/	1.97	24.45	24.68	24.65	33.01	PASS
		5	22.24	22.6	22.71	/	1.97	24.21	24.57	24.68	33.01	PASS
	3	0	21.48	21.57	21.59	/	1.97	23.45	23.54	23.56	33.01	PASS
		2	21.42	21.56	21.61	/	1.97	23.39	23.53	23.58	33.01	PASS
		3	21.49	21.44	21.58	/	1.97	23.46	23.41	23.55	33.01	PASS
	6	0	21.3	21.6	21.78	/	1.97	23.27	23.57	23.75	33.01	PASS
16QAM	1		21.63	21.76	21.98	/	1.97	23.6	23.73	23.95	33.01	PASS
		2	21.5	21.23	21.86	/	1.97	23.47	23.2	23.83	33.01	PASS
		5	21.16	21.38	22.24	/	1.97	23.13	23.35	24.21	33.01	PASS
	3	0	20.36	20.68	20.66	/	1.97	22.33	22.65	22.63	33.01	PASS
		2	20.52	20.66	20.68	/	1.97	22.49	22.63	22.65	33.01	PASS
		3	20.58	20.51	20.78	/	1.97	22.55	22.48	22.75	33.01	PASS
	6	0	20.67	20.7	20.79	/	1.97	22.64	22.67	22.76	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	23.43	22.87	23.1	/	1.2	24.63	24.07	24.3	30.00	PASS
		2	23.29	22.87	23.04	/	1.2	24.49	24.07	24.24	30.00	PASS
		5	23.33	22.71	22.98	/	1.2	24.53	23.91	24.18	30.00	PASS
	3	0	23.32	22.68	22.99	/	1.2	24.52	23.88	24.19	30.00	PASS
		2	23.2	22.74	22.99	/	1.2	24.4	23.94	24.19	30.00	PASS
		3	23.23	22.71	22.83	/	1.2	24.43	23.91	24.03	30.00	PASS
	6	0	22.06	21.76	22.01	/	1.2	23.26	22.96	23.21	30.00	PASS
		2	22.51	21.86	22.03	/	1.2	23.71	23.06	23.23	30.00	PASS
		5	22.42	21.76	22.23	/	1.2	23.62	22.96	23.43	30.00	PASS
16QAM	1	0	22.22	21.73	22.06	/	1.2	23.42	22.93	23.26	30.00	PASS
		2	22.3	21.84	22.13	/	1.2	23.5	23.04	23.33	30.00	PASS
		3	22.36	21.8	22.08	/	1.2	23.56	23	23.28	30.00	PASS
	3	0	21.46	20.85	21.22	/	1.2	22.66	22.05	22.42	30.00	PASS
		2	22.56	21.86	22.22	/	1.2	23.76	23.06	23.42	30.00	PASS
		5	22.42	21.76	22.23	/	1.2	23.62	22.96	23.43	30.00	PASS
	6	0	22.22	21.73	22.06	/	1.2	23.42	22.93	23.26	30.00	PASS
		2	22.3	21.84	22.13	/	1.2	23.5	23.04	23.33	30.00	PASS
		3	22.36	21.8	22.08	/	1.2	23.56	23	23.28	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	23.47	22.89	23.18	/	1.2	24.67	24.09	24.38	30.00	PASS
		2	23.31	22.77	23.01	/	1.2	24.51	23.97	24.21	30.00	PASS
		5	23.32	22.7	23.01	/	1.2	24.52	23.9	24.21	30.00	PASS
	3	0	22.33	21.77	22.02	/	1.2	23.53	22.97	23.22	30.00	PASS
		2	22.17	21.78	22.07	/	1.2	23.37	22.98	23.27	30.00	PASS
		3	22.3	21.73	21.95	/	1.2	23.5	22.93	23.15	30.00	PASS
	6	0	22.04	21.78	22	/	1.2	23.24	22.98	23.2	30.00	PASS
		2	22.53	21.85	22.04	/	1.2	23.73	23.05	23.24	30.00	PASS
		5	22.64	21.92	22.07	/	1.2	23.84	23.12	23.27	30.00	PASS
16QAM	1	0	22.44	21.82	22.15	/	1.2	23.64	23.02	23.35	30.00	PASS
		2	21.28	20.89	21.13	/	1.2	22.48	22.09	22.33	30.00	PASS
		3	21.36	20.91	21.14	/	1.2	22.56	22.11	22.34	30.00	PASS
	3	0	21.42	20.9	21.11	/	1.2	22.62	22.1	22.31	30.00	PASS
		2	21.36	20.91	21.14	/	1.2	22.56	22.11	22.34	30.00	PASS
		3	21.42	20.9	21.11	/	1.2	22.62	22.1	22.31	30.00	PASS
	6	0	21.38	20.95	21.09	/	1.2	22.58	22.15	22.29	30.00	PASS
		2	22.64	21.92	22.07	/	1.2	23.84	23.12	23.27	30.00	PASS
		5	22.44	21.82	22.15	/	1.2	23.64	23.02	23.35	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	23.48	23	23.17	/	1.2	24.68	24.2	24.37	30.00	PASS
		2	23.26	23.03	23.07	/	1.2	24.46	24.23	24.27	30.00	PASS
		5	23.25	22.73	23.05	/	1.2	24.45	23.93	24.25	30.00	PASS
	3	0	22.27	21.77	22.18	/	1.2	23.47	22.97	23.38	30.00	PASS
		2	22.19	21.88	22	/	1.2	23.39	23.08	23.2	30.00	PASS
		3	22.32	21.78	21.83	/	1.2	23.52	22.98	23.03	30.00	PASS
	6	0	22.07	21.89	22.09	/	1.2	23.27	23.09	23.29	30.00	PASS
		2	22.44	22.36	22.14	/	1.2	23.64	23.56	23.34	30.00	PASS
		5	22.32	22.25	22.15	/	1.2	23.52	23.45	23.35	30.00	PASS
16QAM	1	0	22.14	22.13	22.36	/	1.2	23.34	23.33	23.56	30.00	PASS
		2	21.25	20.87	21.23	/	1.2	22.45	22.07	22.43	30.00	PASS
		3	21.3	20.91	21.05	/	1.2	22.5	22.11	22.25	30.00	PASS
	3	0	21.36	20.93	21.15	/	1.2	22.56	22.13	22.35	30.00	PASS
		2	21.36	20.93	21.15	/	1.2	22.56	22.13	22.35	30.00	PASS
		3	21.36	20.93	21.15	/	1.2	22.56	22.13	22.35	30.00	PASS
	6	0	21.53	20.92	21.25	/	1.2	22.73	22.12	22.45	30.00	PASS
		2	22.32	22.25	22.15	/	1.2	23.52	23.45	23.35	30.00	PASS
		5	22.14	22.13	22.36	/	1.2	23.34	23.33	23.56	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	23.49	23.14	23.27	/	1.2	24.69	24.34	24.47	30.00	PASS
		2	23.31	23.46	22.89	/	1.2	24.51	24.66	24.09	30.00	PASS
		5	23.18	22.9	23.25	/	1.2	24.38	24.1	24.45	30.00	PASS
	3	0	22.39	21.8	21.98	/	1.2	23.59	23	23.18	30.00	PASS
		2	22.22	21.84	21.95	/	1.2	23.42	23.04	23.15	30.00	PASS
		3	22.36	21.9	21.9	/	1.2	23.56	23.1	23.1	30.00	PASS
	6	0	22.2	21.8	22.06	/	1.2	23.4	23	23.26	30.00	PASS
16QAM	1	0	22.74	22.09	22.38	/	1.2	23.94	23.29	23.58	30.00	PASS
		2	22.49	21.9	22.11	/	1.2	23.69	23.1	23.31	30.00	PASS
		5	22.38	22.13	22.47	/	1.2	23.58	23.33	23.67	30.00	PASS
	3	0	21.23	20.93	21.11	/	1.2	22.43	22.13	22.31	30.00	PASS
		2	21.35	20.98	21.06	/	1.2	22.55	22.18	22.26	30.00	PASS
		3	21.41	21.02	21.23	/	1.2	22.61	22.22	22.43	30.00	PASS
	6	0	21.49	20.96	21.21	/	1.2	22.69	22.16	22.41	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	23.28	22.94	22.98	/	1.2	24.48	24.14	24.18	30.00	PASS
		2	23	22.77	22.72	/	1.2	24.2	23.97	23.92	30.00	PASS
		5	22.71	22.43	22.85	/	1.2	23.91	23.63	24.05	30.00	PASS
	3	0	22.07	21.74	21.7	/	1.2	23.27	22.94	22.9	30.00	PASS
		2	22.03	21.68	21.79	/	1.2	23.23	22.88	22.99	30.00	PASS
		3	22.02	21.6	21.56	/	1.2	23.22	22.8	22.76	30.00	PASS
	6	0	21.79	21.65	21.64	/	1.2	22.99	22.85	22.84	30.00	PASS
16QAM	1	0	22.13	21.99	22.04	/	1.2	23.33	23.19	23.24	30.00	PASS
		2	22.01	21.83	21.87	/	1.2	23.21	23.03	23.07	30.00	PASS
		5	21.69	21.58	22.09	/	1.2	22.89	22.78	23.29	30.00	PASS
	3	0	21.17	20.92	20.73	/	1.2	22.37	22.12	21.93	30.00	PASS
		2	21.15	20.87	20.79	/	1.2	22.35	22.07	21.99	30.00	PASS
		3	21.21	20.72	20.75	/	1.2	22.41	21.92	21.95	30.00	PASS
	6	0	21.17	20.8	20.86	/	1.2	22.37	22	22.06	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	22.98	22.85	22.64	/	1.2	24.18	24.05	23.84	30.00	PASS
		2	22.95	22.86	22.75	/	1.2	24.15	24.06	23.95	30.00	PASS
		5	22.73	22.53	22.71	/	1.2	23.93	23.73	23.91	30.00	PASS
	3	0	22.04	21.79	21.7	/	1.2	23.24	22.99	22.9	30.00	PASS
		2	21.93	21.66	21.66	/	1.2	23.13	22.86	22.86	30.00	PASS
		3	21.89	21.55	21.55	/	1.2	23.09	22.75	22.75	30.00	PASS
	6	0	21.8	21.62	21.74	/	1.2	23	22.82	22.94	30.00	PASS
16QAM	1	0	22.04	21.54	21.84	/	1.2	23.24	22.74	23.04	30.00	PASS
		2	22.09	21.4	22.13	/	1.2	23.29	22.6	23.33	30.00	PASS
		5	21.79	21.17	22.35	/	1.2	22.99	22.37	23.55	30.00	PASS
	3	0	20.93	20.85	20.71	/	1.2	22.13	22.05	21.91	30.00	PASS
		2	20.96	20.81	20.76	/	1.2	22.16	22.01	21.96	30.00	PASS
		3	21.02	20.66	20.84	/	1.2	22.22	21.86	22.04	30.00	PASS
	6	0	21.12	20.79	20.78	/	1.2	22.32	21.99	21.98	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	23.39	23.14	23.37	-4.52	-2.37	18.87	18.62	18.85	34.77	PASS
		2	23.14	23.25	23.3	-4.52	-2.37	18.62	18.73	18.78	34.77	PASS
		5	23.15	23.16	23.26	-4.52	-2.37	18.63	18.64	18.74	34.77	PASS
	3	0	23.16	23.06	23.48	-4.52	-2.37	18.64	18.54	18.96	34.77	PASS
		2	23.05	23.18	23.5	-4.52	-2.37	18.53	18.66	18.98	34.77	PASS
		3	23.07	23.12	23.27	-4.52	-2.37	18.55	18.6	18.75	34.77	PASS
	6	0	22	22.21	22.64	-4.52	-2.37	17.48	17.69	18.12	34.77	PASS
16QAM	1	0	22.26	22.42	22.19	-4.52	-2.37	17.74	17.9	17.67	34.77	PASS
		2	22.2	22.53	22.64	-4.52	-2.37	17.68	18.01	18.12	34.77	PASS
		5	22.14	22.49	22.63	-4.52	-2.37	17.62	17.97	18.11	34.77	PASS
	3	0	22.15	22.18	22.46	-4.52	-2.37	17.63	17.66	17.94	34.77	PASS
		2	22.21	22.27	22.53	-4.52	-2.37	17.69	17.75	18.01	34.77	PASS
		3	22.27	22.29	22.47	-4.52	-2.37	17.75	17.77	17.95	34.77	PASS
	6	0	21.42	21.34	21.78	-4.52	-2.37	16.9	16.82	17.26	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	23.48	23.13	23.43	-4.52	-2.37	18.96	18.61	18.91	34.77	PASS
		2	23.28	23.3	23.34	-4.52	-2.37	18.76	18.78	18.82	34.77	PASS
		5	23.26	23.16	23.34	-4.52	-2.37	18.74	18.64	18.82	34.77	PASS
	3	0	22.29	22.11	22.62	-4.52	-2.37	17.77	17.59	18.1	34.77	PASS
		2	22.13	22.24	22.6	-4.52	-2.37	17.61	17.72	18.08	34.77	PASS
		3	22.15	22.2	22.37	-4.52	-2.37	17.63	17.68	17.85	34.77	PASS
	6	0	22.06	22.23	22.69	-4.52	-2.37	17.54	17.71	18.17	34.77	PASS
16QAM	1	0	22.6	22.14	22.29	-4.52	-2.37	18.08	17.62	17.77	34.77	PASS
		2	22.49	22.27	22.71	-4.52	-2.37	17.97	17.75	18.19	34.77	PASS
		5	22.32	22.23	22.67	-4.52	-2.37	17.8	17.71	18.15	34.77	PASS
	3	0	21.22	21.24	21.69	-4.52	-2.37	16.7	16.72	17.17	34.77	PASS
		2	21.32	21.28	21.64	-4.52	-2.37	16.8	16.76	17.12	34.77	PASS
		3	21.38	21.34	21.62	-4.52	-2.37	16.86	16.82	17.1	34.77	PASS
	6	0	21.41	21.33	21.68	-4.52	-2.37	16.89	16.81	17.16	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	23.48	23.14	23.46	-4.52	-2.37	18.96	18.62	18.94	34.77	PASS
		2	23.31	23.19	23.44	-4.52	-2.37	18.79	18.67	18.92	34.77	PASS
		5	23.37	23.22	23.42	-4.52	-2.37	18.85	18.7	18.9	34.77	PASS
	3	0	22.32	22.25	22.56	-4.52	-2.37	17.8	17.73	18.04	34.77	PASS
		2	22.27	22.27	22.56	-4.52	-2.37	17.75	17.75	18.04	34.77	PASS
		3	22.37	22.3	22.33	-4.52	-2.37	17.85	17.78	17.81	34.77	PASS
	6	0	22.21	22.31	22.57	-4.52	-2.37	17.69	17.79	18.05	34.77	PASS
16QAM	1	0	22.34	22.44	22.43	-4.52	-2.37	17.82	17.92	17.91	34.77	PASS
		2	22.37	22.63	22.65	-4.52	-2.37	17.85	18.11	18.13	34.77	PASS
		5	22.22	22.66	22.67	-4.52	-2.37	17.7	18.14	18.15	34.77	PASS
	3	0	21.29	21.3	21.62	-4.52	-2.37	16.77	16.78	17.1	34.77	PASS
		2	21.38	21.35	21.6	-4.52	-2.37	16.86	16.83	17.08	34.77	PASS
		3	21.44	21.39	21.58	-4.52	-2.37	16.92	16.87	17.06	34.77	PASS
	6	0	21.66	21.33	21.71	-4.52	-2.37	17.14	16.81	17.19	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	23.48	23.45	23.38	-4.52	-2.37	18.96	18.93	18.86	34.77	PASS	
		2	23.34	23.39	23.43	-4.52	-2.37	18.82	18.87	18.91	34.77	PASS	
		5	23.36	23.41	23.33	-4.52	-2.37	18.84	18.89	18.81	34.77	PASS	
	3	0	22.54	22.34	22.68	-4.52	-2.37	18.02	17.82	18.16	34.77	PASS	
		2	22.44	22.33	22.55	-4.52	-2.37	17.92	17.81	18.03	34.77	PASS	
		3	22.49	22.36	22.39	-4.52	-2.37	17.97	17.84	17.87	34.77	PASS	
	6	0	22.29	22.3	22.69	-4.52	-2.37	17.77	17.78	18.17	34.77	PASS	
			22.86	22.45	22.7	-4.52	-2.37	18.34	17.93	18.18	34.77	PASS	
		2	22.56	22.28	22.8	-4.52	-2.37	18.04	17.76	18.28	34.77	PASS	
16QAM	1	5	22.73	22.39	22.83	-4.52	-2.37	18.21	17.87	18.31	34.77	PASS	
		3	0	21.45	21.43	21.79	-4.52	-2.37	16.93	16.91	17.27	34.77	PASS
			2	21.49	21.49	21.65	-4.52	-2.37	16.97	16.97	17.13	34.77	PASS
	3		21.55	21.49	21.68	-4.52	-2.37	17.03	16.97	17.16	34.77	PASS	
	6	0	21.68	21.38	21.75	-4.52	-2.37	17.16	16.86	17.23	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	23.76	23.66	23.66	-1.76	0.39	22	21.9	21.9	34.77	PASS
		2	23.99	23.71	23.98	-1.76	0.39	22.23	21.95	22.22	34.77	PASS
		5	23.51	23.74	23.96	-1.76	0.39	21.75	21.98	22.2	34.77	PASS
	3	0	23	22.77	23.1	-1.76	0.39	21.24	21.01	21.34	34.77	PASS
		2	22.95	22.79	23.1	-1.76	0.39	21.19	21.03	21.34	34.77	PASS
		3	23.05	22.82	22.87	-1.76	0.39	21.29	21.06	21.11	34.77	PASS
	6	0	22.89	22.83	23.11	-1.76	0.39	21.13	21.07	21.35	34.77	PASS
		2	23.02	22.96	22.97	-1.76	0.39	21.26	21.2	21.21	34.77	PASS
		5	23.05	23.15	23.19	-1.76	0.39	21.29	21.39	21.43	34.77	PASS
16QAM	1	0	21.97	21.82	22.16	-1.76	0.39	20.21	20.06	20.4	34.77	PASS
		2	22.06	21.87	22.14	-1.76	0.39	20.3	20.11	20.38	34.77	PASS
		3	22.12	21.91	22.12	-1.76	0.39	20.36	20.15	20.36	34.77	PASS
	3	0	22.34	21.85	22.25	-1.76	0.39	20.58	20.09	20.49	34.77	PASS
		2	23.05	23.15	23.19	-1.76	0.39	21.29	21.39	21.43	34.77	PASS
		5	22.9	23.18	23.21	-1.76	0.39	21.14	21.42	21.45	34.77	PASS
	6	0	21.97	21.82	22.16	-1.76	0.39	20.21	20.06	20.4	34.77	PASS
		2	22.06	21.87	22.14	-1.76	0.39	20.3	20.11	20.38	34.77	PASS
		3	22.12	21.91	22.12	-1.76	0.39	20.36	20.15	20.36	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	/	23.7	/	-1.76	0.39	/	21.94	/	34.77	PASS
		2	/	23.69	/	-1.76	0.39	/	21.93	/	34.77	PASS
		5	/	23.75	/	-1.76	0.39	/	21.99	/	34.77	PASS
	3	0	/	22.7	/	-1.76	0.39	/	20.94	/	34.77	PASS
		2	/	22.64	/	-1.76	0.39	/	20.88	/	34.77	PASS
		3	/	22.65	/	-1.76	0.39	/	20.89	/	34.77	PASS
	6	0	/	22.6	/	-1.76	0.39	/	20.84	/	34.77	PASS
		2	/	22.7	/	-1.76	0.39	/	20.94	/	34.77	PASS
		5	/	22.61	/	-1.76	0.39	/	20.85	/	34.77	PASS
16QAM	1	0	/	22.66	/	-1.76	0.39	/	20.9	/	34.77	PASS
		2	/	21.72	/	-1.76	0.39	/	19.96	/	34.77	PASS
		3	/	21.7	/	-1.76	0.39	/	19.94	/	34.77	PASS
	3	0	/	21.67	/	-1.76	0.39	/	19.91	/	34.77	PASS
		2	/	21.7	/	-1.76	0.39	/	19.94	/	34.77	PASS
		3	/	21.67	/	-1.76	0.39	/	19.91	/	34.77	PASS
	6	0	/	21.62	/	-1.76	0.39	/	19.86	/	34.77	PASS
		2	/	22.61	/	-1.76	0.39	/	20.85	/	34.77	PASS
		5	/	22.66	/	-1.76	0.39	/	20.9	/	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	22.81	23.15	/	1.97	24.97	24.78	25.12	33.01	PASS
		2	22.85	22.82	23.17	/	1.97	24.82	24.79	25.14	33.01	PASS
		5	22.73	22.7	23.16	/	1.97	24.7	24.67	25.13	33.01	PASS
	3	0	22.79	22.7	23.13	/	1.97	24.76	24.67	25.1	33.01	PASS
		2	22.72	22.8	23.18	/	1.97	24.69	24.77	25.15	33.01	PASS
		3	22.73	22.79	22.99	/	1.97	24.7	24.76	24.96	33.01	PASS
	6	0	21.61	21.84	22.21	/	1.97	23.58	23.81	24.18	33.01	PASS
			21.7	21.98	22.48	/	1.97	23.67	23.95	24.45	33.01	PASS
			21.8	21.96	22.67	/	1.97	23.77	23.93	24.64	33.01	PASS
16QAM	1	0	21.52	21.88	22.34	/	1.97	23.49	23.85	24.31	33.01	PASS
		2	21.67	22.02	22.44	/	1.97	23.64	23.99	24.41	33.01	PASS
		3	21.73	21.96	22.39	/	1.97	23.7	23.93	24.36	33.01	PASS
	3	0	20.96	20.99	21.34	/	1.97	22.93	22.96	23.31	33.01	PASS
		2	21.8	21.96	22.67	/	1.97	23.77	23.93	24.64	33.01	PASS
		5	21.5	21.95	22.78	/	1.97	23.47	23.92	24.75	33.01	PASS
	6	0	21.52	21.88	22.34	/	1.97	23.49	23.85	24.31	33.01	PASS
		2	21.67	22.02	22.44	/	1.97	23.64	23.99	24.41	33.01	PASS
		3	21.73	21.96	22.39	/	1.97	23.7	23.93	24.36	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	23.16	22.94	23.22	/	1.97	25.13	24.91	25.19	33.01	PASS
		2	22.91	22.99	23.06	/	1.97	24.88	24.96	25.03	33.01	PASS
		5	22.89	22.75	23.09	/	1.97	24.86	24.72	25.06	33.01	PASS
	3	0	21.78	21.72	22.17	/	1.97	23.75	23.69	24.14	33.01	PASS
		2	21.62	21.85	22.2	/	1.97	23.59	23.82	24.17	33.01	PASS
		3	21.66	21.76	22.01	/	1.97	23.63	23.73	23.98	33.01	PASS
	6	0	21.56	21.83	22.23	/	1.97	23.53	23.8	24.2	33.01	PASS
		2	22.07	21.98	22.09	/	1.97	24.04	23.95	24.06	33.01	PASS
		5	21.94	21.83	22.2	/	1.97	23.91	23.8	24.17	33.01	PASS
16QAM	1	0	20.78	20.84	21.17	/	1.97	22.75	22.81	23.14	33.01	PASS
		2	20.84	20.93	21.19	/	1.97	22.81	22.9	23.16	33.01	PASS
		3	20.9	20.9	21.15	/	1.97	22.87	22.87	23.12	33.01	PASS
	3	0	20.86	20.97	21.23	/	1.97	22.83	22.94	23.2	33.01	PASS
		2	20.84	20.93	21.19	/	1.97	22.81	22.9	23.16	33.01	PASS
		3	20.9	20.9	21.15	/	1.97	22.87	22.87	23.12	33.01	PASS
	6	0	20.86	20.97	21.23	/	1.97	22.83	22.94	23.2	33.01	PASS
		2	20.84	20.93	21.19	/	1.97	22.81	22.9	23.16	33.01	PASS
		3	20.9	20.9	21.15	/	1.97	22.87	22.87	23.12	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	/	1.97	25.1	25.11	25.46	33.01	PASS
		2	22.88	22.89	23.23	/	1.97	24.85	24.86	25.2	33.01	PASS
		5	22.9	22.73	23.24	/	1.97	24.87	24.7	25.21	33.01	PASS
	3	0	21.74	21.97	22.33	/	1.97	23.71	23.94	24.3	33.01	PASS
		2	21.72	21.83	22.24	/	1.97	23.69	23.8	24.21	33.01	PASS
		3	21.73	21.77	22.12	/	1.97	23.7	23.74	24.09	33.01	PASS
	6	0	21.56	21.93	22.3	/	1.97	23.53	23.9	24.27	33.01	PASS
		2	21.96	22.42	22.31	/	1.97	23.93	24.39	24.28	33.01	PASS
		5	21.81	22.2	22.42	/	1.97	23.78	24.17	24.39	33.01	PASS
16QAM	1	0	21.69	22.16	22.41	/	1.97	23.66	24.13	24.38	33.01	PASS
		2	20.72	21.05	21.33	/	1.97	22.69	23.02	23.3	33.01	PASS
		3	20.86	20.95	21.28	/	1.97	22.83	22.92	23.25	33.01	PASS
	3	0	20.92	20.9	21.38	/	1.97	22.89	22.87	23.35	33.01	PASS
		2	20.93	20.95	21.42	/	1.97	22.9	22.92	23.39	33.01	PASS
		3	20.92	20.9	21.38	/	1.97	22.89	22.87	23.35	33.01	PASS
	6	0	20.93	20.95	21.42	/	1.97	22.9	22.92	23.39	33.01	PASS
		2	20.93	20.95	21.42	/	1.97	22.9	22.92	23.39	33.01	PASS
		3	20.92	20.9	21.38	/	1.97	22.89	22.87	23.35	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	/	1.97	25.38	25.25	25.36	33.01	PASS
		2	23.05	22.9	23.13	/	1.97	25.02	24.87	25.1	33.01	PASS
		5	23.17	22.81	23.04	/	1.97	25.14	24.78	25.01	33.01	PASS
	3	0	21.82	21.8	22.36	/	1.97	23.79	23.77	24.33	33.01	PASS
		2	21.8	21.81	22.25	/	1.97	23.77	23.78	24.22	33.01	PASS
		3	21.9	21.8	22.13	/	1.97	23.87	23.77	24.1	33.01	PASS
	6	0	21.77	21.93	22.32	/	1.97	23.74	23.9	24.29	33.01	PASS
		2	22.31	22.31	22.52	/	1.97	24.28	24.28	24.49	33.01	PASS
		5	22.32	21.84	22.49	/	1.97	24.29	23.81	24.46	33.01	PASS
16QAM	1	0	20.7	20.99	21.43	/	1.97	22.67	22.96	23.4	33.01	PASS
		2	20.94	21	21.28	/	1.97	22.91	22.97	23.25	33.01	PASS
		3	21	21.01	21.38	/	1.97	22.97	22.98	23.35	33.01	PASS
	3	0	21.08	21.01	21.47	/	1.97	23.05	22.98	23.44	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	23.29	23.26	23.31	/	1.97	25.26	25.23	25.28	33.01	PASS
		2	22.81	22.78	23.16	/	1.97	24.78	24.75	25.13	33.01	PASS
		5	22.89	22.88	23.23	/	1.97	24.86	24.85	25.2	33.01	PASS
	3	0	21.78	21.71	22.06	/	1.97	23.75	23.68	24.03	33.01	PASS
		2	21.69	21.79	22.04	/	1.97	23.66	23.76	24.01	33.01	PASS
		3	21.86	21.7	21.88	/	1.97	23.83	23.67	23.85	33.01	PASS
	6	0	21.66	21.75	22.11	/	1.97	23.63	23.72	24.08	33.01	PASS
		2	22.14	22.28	22.17	/	1.97	24.11	24.25	24.14	33.01	PASS
		5	21.77	21.78	22.26	/	1.97	23.74	23.75	24.23	33.01	PASS
16QAM	1	0	21.77	21.94	22.32	/	1.97	23.74	23.91	24.29	33.01	PASS
		2	20.82	20.87	21.06	/	1.97	22.79	22.84	23.03	33.01	PASS
		3	20.87	20.9	21.03	/	1.97	22.84	22.87	23	33.01	PASS
	3	0	20.93	20.89	21.07	/	1.97	22.9	22.86	23.04	33.01	PASS
		2	21.06	20.91	21.26	/	1.97	23.03	22.88	23.23	33.01	PASS
		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	23.09	23.3	23.04	/	1.97	25.06	25.27	25.01	33.01	PASS
		2	22.82	22.92	23.05	/	1.97	24.79	24.89	25.02	33.01	PASS
		5	22.58	22.81	23.08	/	1.97	24.55	24.78	25.05	33.01	PASS
	3	0	21.82	21.78	21.96	/	1.97	23.79	23.75	23.93	33.01	PASS
		2	21.76	21.77	21.98	/	1.97	23.73	23.74	23.95	33.01	PASS
		3	21.83	21.65	21.95	/	1.97	23.8	23.62	23.92	33.01	PASS
	6	0	21.64	21.81	22.15	/	1.97	23.61	23.78	24.12	33.01	PASS
		2	21.97	21.97	22.35	/	1.97	23.94	23.94	24.32	33.01	PASS
		5	21.84	21.44	22.23	/	1.97	23.81	23.41	24.2	33.01	PASS
16QAM	1	0	21.5	21.59	22.61	/	1.97	23.47	23.56	24.58	33.01	PASS
		2	20.7	20.89	21.03	/	1.97	22.67	22.86	23	33.01	PASS
		3	20.86	20.87	21.05	/	1.97	22.83	22.84	23.02	33.01	PASS
	3	0	20.92	20.72	21.15	/	1.97	22.89	22.69	23.12	33.01	PASS
		2	21.01	20.91	21.16	/	1.97	22.98	22.88	23.13	33.01	PASS
		5										
	6	0										
		2										
		5										

Note:

1) dBd = dBi - 2.15

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