

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	22.13	21.99	22.18	/	1.5	23.63	23.49	23.68	33.01	PASS
		2	22.21	22.05	22.32	/	1.5	23.71	23.55	23.82	33.01	PASS
		5	22.05	21.97	22.28	/	1.5	23.55	23.47	23.78	33.01	PASS
	3	0	22.13	21.99	22.23	/	1.5	23.63	23.49	23.73	33.01	PASS
		2	22.15	22.04	22.35	/	1.5	23.65	23.54	23.85	33.01	PASS
		3	22.11	22.01	22.29	/	1.5	23.61	23.51	23.79	33.01	PASS
	6	0	21.13	21.07	21.31	/	1.5	22.63	22.57	22.81	33.01	PASS
		0	21.05	21.16	21.64	/	1.5	22.55	22.66	23.14	33.01	PASS
		0	21.21	21.22	21.79	/	1.5	22.71	22.72	23.29	33.01	PASS
16QAM	1	2	20.97	21.15	21.78	/	1.5	22.47	22.65	23.28	33.01	PASS
		0	20.94	21.1	21.41	/	1.5	22.44	22.6	22.91	33.01	PASS
		2	21	21.16	21.57	/	1.5	22.5	22.66	23.07	33.01	PASS
	3	2	20.97	21.07	21.47	/	1.5	22.47	22.57	22.97	33.01	PASS
		3	20.97	21.07	21.47	/	1.5	22.47	22.57	22.97	33.01	PASS
		3	20.97	21.07	21.47	/	1.5	22.47	22.57	22.97	33.01	PASS
	6	0	20.12	20.16	20.35	/	1.5	21.62	21.66	21.85	33.01	PASS
		0	20.12	20.16	20.35	/	1.5	21.62	21.66	21.85	33.01	PASS
		0	20.12	20.16	20.35	/	1.5	21.62	21.66	21.85	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	22.29	22.12	22.25	/	1.5	23.79	23.62	23.75	33.01	PASS
		7	22.27	22.22	22.21	/	1.5	23.77	23.72	23.71	33.01	PASS
		14	22.21	22.02	22.21	/	1.5	23.71	23.52	23.71	33.01	PASS
	8	0	21.12	21.01	21.27	/	1.5	22.62	22.51	22.77	33.01	PASS
		4	21.05	21.09	21.37	/	1.5	22.55	22.59	22.87	33.01	PASS
		7	21.04	20.98	21.31	/	1.5	22.54	22.48	22.81	33.01	PASS
	15	0	21.08	21.06	21.33	/	1.5	22.58	22.56	22.83	33.01	PASS
		0	21.42	21.16	21.25	/	1.5	22.92	22.66	22.75	33.01	PASS
		0	21.41	21.14	21.31	/	1.5	22.91	22.64	22.81	33.01	PASS
16QAM	1	7	21.41	21.03	21.2	/	1.5	22.91	22.53	22.7	33.01	PASS
		14	21.41	21.03	21.2	/	1.5	22.91	22.53	22.7	33.01	PASS
		14	21.41	21.03	21.2	/	1.5	22.91	22.53	22.7	33.01	PASS
	8	0	20.2	20.06	20.24	/	1.5	21.7	21.56	21.74	33.01	PASS
		4	20.17	20.07	20.32	/	1.5	21.67	21.57	21.82	33.01	PASS
		7	20.13	20.01	20.23	/	1.5	21.63	21.51	21.73	33.01	PASS
	15	0	20.02	20.14	20.24	/	1.5	21.52	21.64	21.74	33.01	PASS
		0	20.02	20.14	20.24	/	1.5	21.52	21.64	21.74	33.01	PASS
		0	20.02	20.14	20.24	/	1.5	21.52	21.64	21.74	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	22.26	22.32	22.52	/	1.5	23.76	23.82	24.02	33.01	PASS
		13	22.24	22.12	22.38	/	1.5	23.74	23.62	23.88	33.01	PASS
		24	22.22	22	22.36	/	1.5	23.72	23.5	23.86	33.01	PASS
	12	0	21.08	21.26	21.43	/	1.5	22.58	22.76	22.93	33.01	PASS
		6	21.15	21.07	21.41	/	1.5	22.65	22.57	22.91	33.01	PASS
		13	21.11	20.99	21.42	/	1.5	22.61	22.49	22.92	33.01	PASS
	25	0	21.08	21.16	21.4	/	1.5	22.58	22.66	22.9	33.01	PASS
		0	21.31	21.6	21.47	/	1.5	22.81	23.1	22.97	33.01	PASS
		13	21.22	21.46	21.54	/	1.5	22.72	22.96	23.04	33.01	PASS
16QAM	1	24	21.16	21.36	21.41	/	1.5	22.66	22.86	22.91	33.01	PASS
		0	20.14	20.27	20.4	/	1.5	21.64	21.77	21.9	33.01	PASS
		6	20.19	20.09	20.41	/	1.5	21.69	21.59	21.91	33.01	PASS
	12	6	20.1	20.01	20.46	/	1.5	21.6	21.51	21.96	33.01	PASS
		13	20.1	20.01	20.46	/	1.5	21.6	21.51	21.96	33.01	PASS
		13	20.1	20.01	20.46	/	1.5	21.6	21.51	21.96	33.01	PASS
	25	0	20.09	20.12	20.43	/	1.5	21.59	21.62	21.93	33.01	PASS
		0	20.09	20.12	20.43	/	1.5	21.59	21.62	21.93	33.01	PASS
		0	20.09	20.12	20.43	/	1.5	21.59	21.62	21.93	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	22.54	22.46	22.42	/	1.5	24.04	23.96	23.92	33.01	PASS
		25	22.41	22.13	22.28	/	1.5	23.91	23.63	23.78	33.01	PASS
		49	22.49	22.08	22.16	/	1.5	23.99	23.58	23.66	33.01	PASS
	25	0	21.16	21.09	21.46	/	1.5	22.66	22.59	22.96	33.01	PASS
		13	21.23	21.05	21.42	/	1.5	22.73	22.55	22.92	33.01	PASS
		25	21.28	21.02	21.43	/	1.5	22.78	22.52	22.93	33.01	PASS
	50	0	21.29	21.16	21.42	/	1.5	22.79	22.66	22.92	33.01	PASS
		0	21.66	21.49	21.68	/	1.5	23.16	22.99	23.18	33.01	PASS
		25	21.49	21.12	21.56	/	1.5	22.99	22.62	23.06	33.01	PASS
16QAM	1	49	21.79	21.04	21.49	/	1.5	23.29	22.54	22.99	33.01	PASS
		0	20.12	20.21	20.5	/	1.5	21.62	21.71	22	33.01	PASS
		13	20.27	20.14	20.41	/	1.5	21.77	21.64	21.91	33.01	PASS
	25	25	20.24	20.12	20.46	/	1.5	21.74	21.62	21.96	33.01	PASS
		0	20.24	20.18	20.48	/	1.5	21.74	21.68	21.98	33.01	PASS
		0	20.24	20.18	20.48	/	1.5	21.74	21.68	21.98	33.01	PASS
	50	0	20.24	20.18	20.48	/	1.5	21.74	21.68	21.98	33.01	PASS
		0	20.24	20.18	20.48	/	1.5	21.74	21.68	21.98	33.01	PASS
		0	20.24	20.18	20.48	/	1.5	21.74	21.68	21.98	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	22.42	22.44	22.34	/	1.5	23.92	23.94	23.84	33.01	PASS
		38	22.17	22.01	22.31	/	1.5	23.67	23.51	23.81	33.01	PASS
		74	22.21	22.15	22.35	/	1.5	23.71	23.65	23.85	33.01	PASS
	36	0	21.12	21	21.16	/	1.5	22.62	22.5	22.66	33.01	PASS
		18	21.12	21.03	21.21	/	1.5	22.62	22.53	22.71	33.01	PASS
		39	21.24	20.92	21.18	/	1.5	22.74	22.42	22.68	33.01	PASS
	75	0	21.18	20.98	21.21	/	1.5	22.68	22.48	22.71	33.01	PASS
		0	21.49	21.46	21.33	/	1.5	22.99	22.96	22.83	33.01	PASS
		38	21.18	21.04	21.38	/	1.5	22.68	22.54	22.88	33.01	PASS
16QAM	1	74	21.24	21.14	21.32	/	1.5	22.74	22.64	22.82	33.01	PASS
		0	20.24	20.09	20.13	/	1.5	21.74	21.59	21.63	33.01	PASS
		18	20.2	20.04	20.16	/	1.5	21.7	21.54	21.66	33.01	PASS
	36	39	20.22	20	20.15	/	1.5	21.72	21.5	21.65	33.01	PASS
		0	20.22	20.08	20.27	/	1.5	21.72	21.58	21.77	33.01	PASS
		0	20.22	20.08	20.27	/	1.5	21.72	21.58	21.77	33.01	PASS
	75	0	20.22	20.08	20.27	/	1.5	21.72	21.58	21.77	33.01	PASS
		0	20.22	20.08	20.27	/	1.5	21.72	21.58	21.77	33.01	PASS
		0	20.22	20.08	20.27	/	1.5	21.72	21.58	21.77	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	22.22	22.48	22.07	/	1.5	23.72	23.98	23.57	33.01	PASS
		50	22.18	22.15	22.2	/	1.5	23.68	23.65	23.7	33.01	PASS
		99	21.9	22.08	22.2	/	1.5	23.4	23.58	23.7	33.01	PASS
	50	0	21.16	21.07	21.06	/	1.5	22.66	22.57	22.56	33.01	PASS
		25	21.19	21.01	21.15	/	1.5	22.69	22.51	22.65	33.01	PASS
		50	21.21	20.87	21.25	/	1.5	22.71	22.37	22.75	33.01	PASS
	100	0	21.16	21.04	21.25	/	1.5	22.66	22.54	22.75	33.01	PASS
		0	21.32	21.15	21.51	/	1.5	22.82	22.65	23.01	33.01	PASS
		50	21.25	20.7	21.35	/	1.5	22.75	22.2	22.85	33.01	PASS
16QAM	1	99	20.97	20.79	21.61	/	1.5	22.47	22.29	23.11	33.01	PASS
		0	20.12	20.11	20.1	/	1.5	21.62	21.61	21.6	33.01	PASS
		25	20.19	20.01	20.18	/	1.5	21.69	21.51	21.68	33.01	PASS
	50	50	20.12	19.83	20.23	/	1.5	21.62	21.33	21.73	33.01	PASS
		0	20.17	20.08	20.17	/	1.5	21.67	21.58	21.67	33.01	PASS
		0	20.17	20.08	20.17	/	1.5	21.67	21.58	21.67	33.01	PASS
	100	0	20.17	20.08	20.17	/	1.5	21.67	21.58	21.67	33.01	PASS
		0	20.17	20.08	20.17	/	1.5	21.67	21.58	21.67	33.01	PASS
		0	20.17	20.08	20.17	/	1.5	21.67	21.58	21.67	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	22.85	22.52	22.62	/	1.5	24.35	24.02	24.12	30.00	PASS
		2	22.94	22.57	22.68	/	1.5	24.44	24.07	24.18	30.00	PASS
		5	22.94	22.45	22.59	/	1.5	24.44	23.95	24.09	30.00	PASS
	3	0	22.95	22.44	22.58	/	1.5	24.45	23.94	24.08	30.00	PASS
		2	22.92	22.45	22.65	/	1.5	24.42	23.95	24.15	30.00	PASS
		3	22.9	22.4	22.62	/	1.5	24.4	23.9	24.12	30.00	PASS
	6	0	21.87	21.46	21.6	/	1.5	23.37	22.96	23.1	30.00	PASS
		2	22.15	21.51	21.68	/	1.5	23.65	23.01	23.18	30.00	PASS
		5	22.18	21.43	21.72	/	1.5	23.68	22.93	23.22	30.00	PASS
16QAM	1	0	21.93	21.42	21.62	/	1.5	23.43	22.92	23.12	30.00	PASS
		2	21.92	21.45	21.75	/	1.5	23.42	22.95	23.25	30.00	PASS
		3	21.89	21.38	21.65	/	1.5	23.39	22.88	23.15	30.00	PASS
	3	0	21.89	21.38	21.65	/	1.5	23.39	22.88	23.15	30.00	PASS
		2	21.89	21.38	21.65	/	1.5	23.39	22.88	23.15	30.00	PASS
		3	21.89	21.38	21.65	/	1.5	23.39	22.88	23.15	30.00	PASS
	6	0	20.91	20.49	20.72	/	1.5	22.41	21.99	22.22	30.00	PASS
		2	20.91	20.49	20.72	/	1.5	22.41	21.99	22.22	30.00	PASS
		5	20.91	20.49	20.72	/	1.5	22.41	21.99	22.22	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	22.94	22.54	22.7	/	1.5	24.44	24.04	24.2	30.00	PASS
		7	22.96	22.47	22.65	/	1.5	24.46	23.97	24.15	30.00	PASS
		14	22.93	22.44	22.62	/	1.5	24.43	23.94	24.12	30.00	PASS
	8	0	21.96	21.53	21.61	/	1.5	23.46	23.03	23.11	30.00	PASS
		4	21.89	21.49	21.73	/	1.5	23.39	22.99	23.23	30.00	PASS
		7	21.97	21.42	21.74	/	1.5	23.47	22.92	23.24	30.00	PASS
	15	0	21.85	21.48	21.59	/	1.5	23.35	22.98	23.09	30.00	PASS
		7	22.17	21.5	21.69	/	1.5	23.67	23	23.19	30.00	PASS
		14	22.34	21.65	21.68	/	1.5	23.84	23.15	23.18	30.00	PASS
16QAM	1	0	22.2	21.49	21.64	/	1.5	23.7	22.99	23.14	30.00	PASS
		7	22.2	21.49	21.64	/	1.5	23.7	22.99	23.14	30.00	PASS
		14	22.2	21.49	21.64	/	1.5	23.7	22.99	23.14	30.00	PASS
	8	0	20.99	20.58	20.69	/	1.5	22.49	22.08	22.19	30.00	PASS
		4	20.98	20.52	20.76	/	1.5	22.48	22.02	22.26	30.00	PASS
		7	20.95	20.48	20.68	/	1.5	22.45	21.98	22.18	30.00	PASS
	15	0	20.83	20.59	20.59	/	1.5	22.33	22.09	22.09	30.00	PASS
		7	20.83	20.59	20.59	/	1.5	22.33	22.09	22.09	30.00	PASS
		14	20.83	20.59	20.59	/	1.5	22.33	22.09	22.09	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	22.93	22.65	22.69	/	1.5	24.43	24.15	24.19	30.00	PASS
		13	22.91	22.73	22.71	/	1.5	24.41	24.23	24.21	30.00	PASS
		24	22.86	22.47	22.66	/	1.5	24.36	23.97	24.16	30.00	PASS
	12	0	21.9	21.53	21.77	/	1.5	23.4	23.03	23.27	30.00	PASS
		6	21.91	21.59	21.66	/	1.5	23.41	23.09	23.16	30.00	PASS
		13	21.99	21.47	21.62	/	1.5	23.49	22.97	23.12	30.00	PASS
	25	0	21.88	21.59	21.68	/	1.5	23.38	23.09	23.18	30.00	PASS
		13	22.08	22.01	21.79	/	1.5	23.58	23.51	23.29	30.00	PASS
		24	22.02	21.98	21.76	/	1.5	23.52	23.48	23.26	30.00	PASS
16QAM	1	0	21.9	21.8	21.85	/	1.5	23.4	23.3	23.35	30.00	PASS
		13	20.96	20.56	20.79	/	1.5	22.46	22.06	22.29	30.00	PASS
		24	20.92	20.52	20.67	/	1.5	22.42	22.02	22.17	30.00	PASS
	12	0	20.92	20.52	20.67	/	1.5	22.42	22.02	22.17	30.00	PASS
		6	20.92	20.52	20.67	/	1.5	22.42	22.02	22.17	30.00	PASS
		13	21	20.51	20.72	/	1.5	22.5	22.01	22.22	30.00	PASS
	25	0	20.98	20.56	20.75	/	1.5	22.48	22.06	22.25	30.00	PASS
		13	20.98	20.56	20.75	/	1.5	22.48	22.06	22.25	30.00	PASS
		24	20.98	20.56	20.75	/	1.5	22.48	22.06	22.25	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	23.12	22.79	22.79	/	1.5	24.62	24.29	24.29	30.00	PASS
		25	22.96	23.16	22.53	/	1.5	24.46	24.66	24.03	30.00	PASS
		49	22.79	22.64	22.86	/	1.5	24.29	24.14	24.36	30.00	PASS
	25	0	22.02	21.56	21.57	/	1.5	23.52	23.06	23.07	30.00	PASS
		13	21.94	21.55	21.61	/	1.5	23.44	23.05	23.11	30.00	PASS
		25	22.03	21.59	21.69	/	1.5	23.53	23.09	23.19	30.00	PASS
16QAM	1	0	22.01	21.5	21.65	/	1.5	23.51	23	23.15	30.00	PASS
			22.39	21.74	22.03	/	1.5	23.89	23.24	23.53	30.00	PASS
		25	22.19	21.63	21.72	/	1.5	23.69	23.13	23.22	30.00	PASS
	25	49	22.14	21.8	21.96	/	1.5	23.64	23.3	23.46	30.00	PASS
		0	20.94	20.62	20.67	/	1.5	22.44	22.12	22.17	30.00	PASS
		13	20.97	20.59	20.68	/	1.5	22.47	22.09	22.18	30.00	PASS
		25	21.08	20.6	20.8	/	1.5	22.58	22.1	22.3	30.00	PASS
		50	20.94	20.6	20.71	/	1.5	22.44	22.1	22.21	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	22.7	22.59	22.5	/	1.5	24.2	24.09	24	30.00	PASS
		38	22.65	22.47	22.36	/	1.5	24.15	23.97	23.86	30.00	PASS
		74	22.32	22.17	22.46	/	1.5	23.82	23.67	23.96	30.00	PASS
	36	0	21.7	21.5	21.29	/	1.5	23.2	23	22.79	30.00	PASS
		18	21.75	21.39	21.45	/	1.5	23.25	22.89	22.95	30.00	PASS
		39	21.69	21.29	21.35	/	1.5	23.19	22.79	22.85	30.00	PASS
16QAM	75	0	21.6	21.35	21.23	/	1.5	23.1	22.85	22.73	30.00	PASS
			21.77	21.64	21.69	/	1.5	23.27	23.14	23.19	30.00	PASS
		38	21.71	21.56	21.48	/	1.5	23.21	23.06	22.98	30.00	PASS
	36	74	21.45	21.25	21.58	/	1.5	22.95	22.75	23.08	30.00	PASS
		0	20.88	20.61	20.29	/	1.5	22.38	22.11	21.79	30.00	PASS
		18	20.77	20.48	20.41	/	1.5	22.27	21.98	21.91	30.00	PASS
		39	20.58	20.3	20.32	/	1.5	22.08	21.8	21.82	30.00	PASS
		75	20.62	20.44	20.36	/	1.5	22.12	21.94	21.86	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	22.4	22.5	22.16	/	1.5	23.9	24	23.66	30.00	PASS
		50	22.6	22.56	22.39	/	1.5	24.1	24.06	23.89	30.00	PASS
		99	22.34	22.27	22.32	/	1.5	23.84	23.77	23.82	30.00	PASS
	50	0	21.67	21.55	21.29	/	1.5	23.17	23.05	22.79	30.00	PASS
		25	21.65	21.37	21.32	/	1.5	23.15	22.87	22.82	30.00	PASS
		50	21.56	21.24	21.34	/	1.5	23.06	22.74	22.84	30.00	PASS
16QAM	100	0	21.61	21.32	21.33	/	1.5	23.11	22.82	22.83	30.00	PASS
			21.68	21.19	21.49	/	1.5	23.18	22.69	22.99	30.00	PASS
		50	21.79	21.13	21.74	/	1.5	23.29	22.63	23.24	30.00	PASS
	50	99	21.55	20.84	21.84	/	1.5	23.05	22.34	23.34	30.00	PASS
		0	20.64	20.54	20.27	/	1.5	22.14	22.04	21.77	30.00	PASS
		25	20.58	20.42	20.38	/	1.5	22.08	21.92	21.88	30.00	PASS
		50	20.48	20.24	20.41	/	1.5	21.98	21.74	21.91	30.00	PASS
		100	20.57	20.43	20.28	/	1.5	22.07	21.93	21.78	30.00	PASS

Note:

1) dBd = dBi - 2.15

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

5. Effective (Isotropic) Radiated Power Output Data

5.1 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	22.19	22.21	22.24	-0.65	1.5	21.54	21.56	21.59	34.77	PASS
		2	22.17	22.37	22.67	-0.65	1.5	21.52	21.72	22.02	34.77	PASS
		5	22.14	22.32	22.51	-0.65	1.5	21.49	21.67	21.86	34.77	PASS
	3	0	22.17	22.24	22.42	-0.65	1.5	21.52	21.59	21.77	34.77	PASS
		2	22.15	22.31	22.51	-0.65	1.5	21.5	21.66	21.86	34.77	PASS
		3	22.12	22.23	22.41	-0.65	1.5	21.47	21.58	21.76	34.77	PASS
16QAM	6	0	21.19	21.33	21.58	-0.65	1.5	20.54	20.68	20.93	34.77	PASS
			21.28	21.49	21.19	-0.65	1.5	20.63	20.84	20.54	34.77	PASS
			21.28	21.68	21.6	-0.65	1.5	20.63	21.03	20.95	34.77	PASS
	1	2	21.28	21.58	21.47	-0.65	1.5	20.63	20.93	20.82	34.77	PASS
			21.24	21.29	21.37	-0.65	1.5	20.59	20.64	20.72	34.77	PASS
			21.21	21.3	21.5	-0.65	1.5	20.56	20.65	20.85	34.77	PASS
	3	2	21.21	21.3	21.5	-0.65	1.5	20.56	20.65	20.85	34.77	PASS
			21.17	21.29	21.39	-0.65	1.5	20.52	20.64	20.74	34.77	PASS
			20.25	20.4	20.63	-0.65	1.5	19.6	19.75	19.98	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	22.28	22.2	22.3	-0.65	1.5	21.63	21.55	21.65	34.77	PASS
		7	22.31	22.42	22.61	-0.65	1.5	21.66	21.77	21.96	34.77	PASS
		14	22.25	22.32	22.49	-0.65	1.5	21.6	21.67	21.84	34.77	PASS
	8	0	21.3	21.29	21.56	-0.65	1.5	20.65	20.64	20.91	34.77	PASS
		4	21.23	21.37	21.61	-0.65	1.5	20.58	20.72	20.96	34.77	PASS
		7	21.2	21.31	21.51	-0.65	1.5	20.55	20.66	20.86	34.77	PASS
16QAM	15	0	21.25	21.35	21.63	-0.65	1.5	20.6	20.7	20.98	34.77	PASS
			21.62	21.21	21.29	-0.65	1.5	20.97	20.56	20.64	34.77	PASS
			21.57	21.42	21.67	-0.65	1.5	20.92	20.77	21.02	34.77	PASS
	1	7	21.46	21.32	21.51	-0.65	1.5	20.81	20.67	20.86	34.77	PASS
			20.31	20.35	20.6	-0.65	1.5	19.66	19.7	19.95	34.77	PASS
			20.32	20.31	20.61	-0.65	1.5	19.67	19.66	19.96	34.77	PASS
	8	4	20.32	20.31	20.61	-0.65	1.5	19.67	19.66	19.96	34.77	PASS
			20.22	20.34	20.54	-0.65	1.5	19.57	19.69	19.89	34.77	PASS
			20.24	20.39	20.53	-0.65	1.5	19.59	19.74	19.88	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	22.28	22.21	22.33	-0.65	1.5	21.63	21.56	21.68	34.77	PASS
		13	22.34	22.31	22.43	-0.65	1.5	21.69	21.66	21.78	34.77	PASS
		24	22.36	22.38	22.38	-0.65	1.5	21.71	21.73	21.73	34.77	PASS
	12	0	21.33	21.43	21.5	-0.65	1.5	20.68	20.78	20.85	34.77	PASS
		6	21.37	21.4	21.57	-0.65	1.5	20.72	20.75	20.92	34.77	PASS
		13	21.42	21.41	21.47	-0.65	1.5	20.77	20.76	20.82	34.77	PASS
16QAM	25	0	21.4	21.43	21.51	-0.65	1.5	20.75	20.78	20.86	34.77	PASS
			21.36	21.51	21.43	-0.65	1.5	20.71	20.86	20.78	34.77	PASS
			21.45	21.78	21.61	-0.65	1.5	20.8	21.13	20.96	34.77	PASS
	1	24	21.36	21.75	21.51	-0.65	1.5	20.71	21.1	20.86	34.77	PASS
			20.38	20.41	20.53	-0.65	1.5	19.73	19.76	19.88	34.77	PASS
			20.38	20.38	20.57	-0.65	1.5	19.73	19.73	19.92	34.77	PASS
	12	6	20.38	20.38	20.57	-0.65	1.5	19.73	19.73	19.92	34.77	PASS
			20.43	20.39	20.5	-0.65	1.5	19.78	19.74	19.85	34.77	PASS
			20.49	20.39	20.56	-0.65	1.5	19.84	19.74	19.91	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	22.6	22.52	22.6	-0.65	1.5	21.95	21.87	21.95	34.77	PASS	
		25	22.37	22.51	22.42	-0.65	1.5	21.72	21.86	21.77	34.77	PASS	
		49	22.61	22.57	22.53	-0.65	1.5	21.96	21.92	21.88	34.77	PASS	
	25	0	21.55	21.52	21.62	-0.65	1.5	20.9	20.87	20.97	34.77	PASS	
		13	21.54	21.46	21.56	-0.65	1.5	20.89	20.81	20.91	34.77	PASS	
		25	21.54	21.47	21.53	-0.65	1.5	20.89	20.82	20.88	34.77	PASS	
	50	0	21.48	21.42	21.63	-0.65	1.5	20.83	20.77	20.98	34.77	PASS	
			21.88	21.52	21.7	-0.65	1.5	21.23	20.87	21.05	34.77	PASS	
		25	21.64	21.43	21.76	-0.65	1.5	20.99	20.78	21.11	34.77	PASS	
16QAM	1	49	21.87	21.48	21.67	-0.65	1.5	21.22	20.83	21.02	34.77	PASS	
		25	0	20.54	20.54	20.7	-0.65	1.5	19.89	19.89	20.05	34.77	PASS
			13	20.49	20.52	20.62	-0.65	1.5	19.84	19.87	19.97	34.77	PASS
	25		20.47	20.49	20.6	-0.65	1.5	19.82	19.84	19.95	34.77	PASS	
	50	0	20.51	20.44	20.6	-0.65	1.5	19.86	19.79	19.95	34.77	PASS	
			20.51	20.44	20.6	-0.65	1.5	19.86	19.79	19.95	34.77	PASS	
			20.51	20.44	20.6	-0.65	1.5	19.86	19.79	19.95	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)