

TeleBGM 2283-A

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	19.98	19.78	19.99	/	2.16	22.14	21.94	22.15	33.01	PASS
	1	2	19.83	19.9	19.76	/	2.16	21.99	22.06	21.92	33.01	PASS
	1	5	19.69	19.69	19.86	/	2.16	21.85	21.85	22.02	33.01	PASS
	3	0	19.35	19.76	19.52	/	2.16	21.51	21.92	21.68	33.01	PASS
	3	2	19.62	19.79	19.46	/	2.16	21.78	21.95	21.62	33.01	PASS
	3	3	19.96	19.59	19.46	/	2.16	22.12	21.75	21.62	33.01	PASS
	6	0	19.67	19.81	19.52	/	2.16	21.83	21.97	21.68	33.01	PASS
16QAM	1	0	19.61	19.54	19.45	/	2.16	21.77	21.70	21.61	33.01	PASS
	1	2	19.64	20	19.66	/	2.16	21.80	22.16	21.82	33.01	PASS
	1	5	19.59	19.45	19.4	/	2.16	21.75	21.61	21.56	33.01	PASS
	3	0	19.86	19.9	19.4	/	2.16	22.02	22.06	21.56	33.01	PASS
	3	2	19.78	19.63	19.43	/	2.16	21.94	21.79	21.59	33.01	PASS
	3	3	19.7	19.45	19.45	/	2.16	21.86	21.61	21.61	33.01	PASS
	6	0	19.57	19.21	19.15	/	2.16	21.73	21.37	21.31	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	19.82	19.85	19.88	/	2.16	21.98	22.01	22.04	33.01	PASS
	1	2	19.36	19.65	19.94	/	2.16	21.52	21.81	22.10	33.01	PASS
	1	5	19.68	19.76	19.74	/	2.16	21.84	21.92	21.90	33.01	PASS
	3	0	19.26	19.63	19.46	/	2.16	21.42	21.79	21.62	33.01	PASS
	3	2	19.43	19.55	19.34	/	2.16	21.59	21.71	21.50	33.01	PASS
	3	3	19.33	19.47	19.48	/	2.16	21.49	21.63	21.64	33.01	PASS
	6	0	19.45	19.38	19.38	/	2.16	21.61	21.54	21.54	33.01	PASS
16QAM	1	0	19.55	19.4	19.35	/	2.16	21.71	21.56	21.51	33.01	PASS
	1	2	19.41	18.91	19.24	/	2.16	21.57	21.07	21.40	33.01	PASS
	1	5	19.36	19.4	19.38	/	2.16	21.52	21.56	21.54	33.01	PASS
	3	0	19.25	19.31	19.02	/	2.16	21.41	21.47	21.18	33.01	PASS
	3	2	19.12	19.15	18.84	/	2.16	21.28	21.31	21.00	33.01	PASS
	3	3	19.26	19.25	18.8	/	2.16	21.42	21.41	20.96	33.01	PASS
	6	0	19.34	18.99	19.22	/	2.16	21.50	21.15	21.38	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	20.21	20.27	20.18	/	2.16	22.37	22.43	22.34	33.01	PASS
	1	2	19.53	19.76	20.17	/	2.16	21.69	21.92	22.33	33.01	PASS
	1	5	19.69	19.78	19.97	/	2.16	21.85	21.94	22.13	33.01	PASS
	3	0	19.26	19.53	19.41	/	2.16	21.42	21.69	21.57	33.01	PASS
	3	2	19.33	19.56	19.19	/	2.16	21.49	21.72	21.35	33.01	PASS
	3	3	19.27	19.43	19.31	/	2.16	21.43	21.59	21.47	33.01	PASS
	6	0	19.34	19.29	19.38	/	2.16	21.50	21.45	21.54	33.01	PASS
16QAM	1	0	19.93	20.06	20.06	/	2.16	22.09	22.22	22.22	33.01	PASS
	1	2	19.32	18.61	19.36	/	2.16	21.48	20.77	21.52	33.01	PASS
	1	5	19.78	19.65	19.66	/	2.16	21.94	21.81	21.82	33.01	PASS
	3	0	19.54	19.49	19.07	/	2.16	21.70	21.65	21.23	33.01	PASS
	3	2	19.33	19.19	18.87	/	2.16	21.49	21.35	21.03	33.01	PASS
	3	3	19.14	19.16	18.84	/	2.16	21.30	21.32	21.00	33.01	PASS
	6	0	19.24	18.85	19.21	/	2.16	21.40	21.01	21.37	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	20.26	20.27	20.36	/	2.16	22.42	22.43	22.52	33.01	PASS
	1	2	19.95	19.78	20.13	/	2.16	22.11	21.94	22.29	33.01	PASS
	1	5	19.71	20.01	19.91	/	2.16	21.87	22.17	22.07	33.01	PASS
	3	0	19.32	19.71	19.54	/	2.16	21.48	21.87	21.70	33.01	PASS
	3	2	19.62	19.61	19.4	/	2.16	21.78	21.77	21.56	33.01	PASS
	3	3	19.35	19.47	19.44	/	2.16	21.51	21.63	21.60	33.01	PASS
	6	0	19.35	19.43	19.49	/	2.16	21.51	21.59	21.65	33.01	PASS
16QAM	1	0	19.9	20.14	20.14	/	2.16	22.06	22.30	22.30	33.01	PASS
	1	2	19.63	19.69	19.65	/	2.16	21.79	21.85	21.81	33.01	PASS
	1	5	19.79	19.78	19.72	/	2.16	21.95	21.94	21.88	33.01	PASS
	3	0	19.56	19.41	19.07	/	2.16	21.72	21.57	21.23	33.01	PASS
	3	2	19.22	19.14	18.94	/	2.16	21.38	21.30	21.10	33.01	PASS
	3	3	19.56	19.16	18.81	/	2.16	21.72	21.32	20.97	33.01	PASS
	6	0	19.44	18.9	19.12	/	2.16	21.60	21.06	21.28	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	20.3	20.3	20.27	/	2.16	22.46	22.46	22.43	33.01	PASS
	1	2	19.97	20.04	20.13	/	2.16	22.13	22.20	22.29	33.01	PASS
	1	5	19.63	19.95	19.83	/	2.16	21.79	22.11	21.99	33.01	PASS
	3	0	19.43	19.62	19.5	/	2.16	21.59	21.78	21.66	33.01	PASS
	3	2	19.56	19.51	19.34	/	2.16	21.72	21.67	21.50	33.01	PASS
	3	3	19.27	19.51	19.41	/	2.16	21.43	21.67	21.57	33.01	PASS
	6	0	19.54	19.39	19.47	/	2.16	21.70	21.55	21.63	33.01	PASS
16QAM	1	0	20.05	20.11	20.02	/	2.16	22.21	22.27	22.18	33.01	PASS
	1	2	19.34	19.68	19.34	/	2.16	21.50	21.84	21.50	33.01	PASS
	1	5	19.61	19.72	19.8	/	2.16	21.77	21.88	21.96	33.01	PASS
	3	0	19.36	19.48	19.04	/	2.16	21.52	21.64	21.20	33.01	PASS
	3	2	19.23	19.14	18.94	/	2.16	21.39	21.30	21.10	33.01	PASS
	3	3	19.45	19.17	18.86	/	2.16	21.61	21.33	21.02	33.01	PASS
	6	0	19.55	18.92	18.77	/	2.16	21.71	21.08	20.93	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	20.21	20.24	20.19	/	2.16	22.37	22.40	22.35	33.01	PASS
	1	2	20.09	20.11	20.27	/	2.16	22.25	22.27	22.43	33.01	PASS
	1	5	19.71	19.94	19.98	/	2.16	21.87	22.10	22.14	33.01	PASS
	3	0	19.39	19.67	19.4	/	2.16	21.55	21.83	21.56	33.01	PASS
	3	2	19.68	19.58	19.43	/	2.16	21.84	21.74	21.59	33.01	PASS
	3	3	19.48	19.5	19.46	/	2.16	21.64	21.66	21.62	33.01	PASS
	6	0	19.65	19.38	19.37	/	2.16	21.81	21.54	21.53	33.01	PASS
16QAM	1	0	19.91	20.06	20.05	/	2.16	22.07	22.22	22.21	33.01	PASS
	1	2	19.66	20.08	19.42	/	2.16	21.82	22.24	21.58	33.01	PASS
	1	5	19.94	19.5	19.9	/	2.16	22.10	21.66	22.06	33.01	PASS
	3	0	19.53	19.29	19.09	/	2.16	21.69	21.45	21.25	33.01	PASS
	3	2	19.42	19.18	18.95	/	2.16	21.58	21.34	21.11	33.01	PASS
	3	3	19.52	19.07	18.87	/	2.16	21.68	21.23	21.03	33.01	PASS
	6	0	19.27	19.05	18.58	/	2.16	21.43	21.21	20.74	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	20.32	20.04	20.33	/	0.43	20.75	20.47	20.76	30.00	PASS
	1	2	19.82	19.25	20.2	/	0.43	20.25	19.68	20.63	30.00	PASS
	1	5	19.82	19.61	19.53	/	0.43	20.25	20.04	19.96	30.00	PASS
	3	0	19.71	19.63	19.52	/	0.43	20.14	20.06	19.95	30.00	PASS
	3	2	19.9	19.57	19.59	/	0.43	20.33	20.00	20.02	30.00	PASS
	3	3	19.32	19.26	19.66	/	0.43	19.75	19.69	20.09	30.00	PASS
	6	0	19.8	18.93	18.97	/	0.43	20.23	19.36	19.40	30.00	PASS
16QAM	1	0	19.41	19.97	19.28	/	0.43	19.84	20.40	19.71	30.00	PASS
	1	2	19.48	19.69	19.36	/	0.43	19.91	20.12	19.79	30.00	PASS
	1	5	19.56	19.6	19.43	/	0.43	19.99	20.03	19.86	30.00	PASS
	3	0	19.35	19.67	19.14	/	0.43	19.78	20.10	19.57	30.00	PASS
	3	2	19.12	19.28	19.06	/	0.43	19.55	19.71	19.49	30.00	PASS
	3	3	19.4	19.1	19.09	/	0.43	19.83	19.53	19.52	30.00	PASS
	6	0	19.35	18.57	19.17	/	0.43	19.78	19.00	19.60	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	20.3	20.24	20.25	/	0.43	20.73	20.67	20.68	30.00	PASS
	1	2	19.79	19.42	19.49	/	0.43	20.22	19.85	19.92	30.00	PASS
	1	5	19.83	19.73	19.56	/	0.43	20.26	20.16	19.99	30.00	PASS
	3	0	19.69	20.06	19.85	/	0.43	20.12	20.49	20.28	30.00	PASS
	3	2	19.92	19.93	19.51	/	0.43	20.35	20.36	19.94	30.00	PASS
	3	3	19.79	19.68	19.55	/	0.43	20.22	20.11	19.98	30.00	PASS
	6	0	19.85	19.4	18.92	/	0.43	20.28	19.83	19.35	30.00	PASS
16QAM	1	0	19.46	19.69	19.65	/	0.43	19.89	20.12	20.08	30.00	PASS
	1	2	19.83	18.61	19.4	/	0.43	20.26	19.04	19.83	30.00	PASS
	1	5	20.15	18.65	19.47	/	0.43	20.58	19.08	19.90	30.00	PASS
	3	0	19.31	19.49	19.12	/	0.43	19.74	19.92	19.55	30.00	PASS
	3	2	19.15	19.23	19.1	/	0.43	19.58	19.66	19.53	30.00	PASS
	3	3	19.44	19.39	18.83	/	0.43	19.87	19.82	19.26	30.00	PASS
	6	0	18.81	18.99	18.74	/	0.43	19.24	19.42	19.17	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	20.21	20.17	20.33	/	0.43	20.64	20.60	20.76	30.00	PASS
	1	2	20.19	19.4	19.65	/	0.43	20.62	19.83	20.08	30.00	PASS
	1	5	19.8	19.53	19.64	/	0.43	20.23	19.96	20.07	30.00	PASS
	3	0	19.77	19.41	19.5	/	0.43	20.20	19.84	19.93	30.00	PASS
	3	2	19.84	19.55	19.5	/	0.43	20.27	19.98	19.93	30.00	PASS
	3	3	19.7	19.34	19.56	/	0.43	20.13	19.77	19.99	30.00	PASS
	6	0	19.82	19.38	19.03	/	0.43	20.25	19.81	19.46	30.00	PASS
16QAM	1	0	19.94	19.66	19.33	/	0.43	20.37	20.09	19.76	30.00	PASS
	1	2	19.77	19.56	19.34	/	0.43	20.20	19.99	19.77	30.00	PASS
	1	5	19.14	19.01	19.46	/	0.43	19.57	19.44	19.89	30.00	PASS
	3	0	19.34	19.63	19.57	/	0.43	19.77	20.06	20.00	30.00	PASS
	3	2	19.14	19.57	18.98	/	0.43	19.57	20.00	19.41	30.00	PASS
	3	3	18.96	19.19	19.04	/	0.43	19.39	19.62	19.47	30.00	PASS
	6	0	18.86	19.02	19.35	/	0.43	19.29	19.45	19.78	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	20.29	20.32	20.12	/	0.43	20.72	20.75	20.55	30.00	PASS
	1	2	20	19.95	19.6	/	0.43	20.43	20.38	20.03	30.00	PASS
	1	5	19.82	19.65	19.62	/	0.43	20.25	20.08	20.05	30.00	PASS
	3	0	19.75	19.61	19.68	/	0.43	20.18	20.04	20.11	30.00	PASS
	3	2	19.86	19.6	19.59	/	0.43	20.29	20.03	20.02	30.00	PASS
	3	3	19.72	19.66	19.62	/	0.43	20.15	20.09	20.05	30.00	PASS
	6	0	19.77	18.95	19.03	/	0.43	20.20	19.38	19.46	30.00	PASS
16QAM	1	0	19.89	19.43	19.75	/	0.43	20.32	19.86	20.18	30.00	PASS
	1	2	19.78	19.52	19.79	/	0.43	20.21	19.95	20.22	30.00	PASS
	1	5	20.01	19.43	19.76	/	0.43	20.44	19.86	20.19	30.00	PASS
	3	0	19.33	19.41	19.57	/	0.43	19.76	19.84	20.00	30.00	PASS
	3	2	19.49	19.09	19.23	/	0.43	19.92	19.52	19.66	30.00	PASS
	3	3	19.45	19.11	19.11	/	0.43	19.88	19.54	19.54	30.00	PASS
	6	0	18.84	19.01	19.24	/	0.43	19.27	19.44	19.67	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	20.38	20.33	19.98	/	0.43	20.81	20.76	20.41	30.00	PASS
	1	2	19.82	19.48	19.66	/	0.43	20.25	19.91	20.09	30.00	PASS
	1	5	19.41	19.64	19.47	/	0.43	19.84	20.07	19.90	30.00	PASS
	3	0	19.73	19.68	19.62	/	0.43	20.16	20.11	20.05	30.00	PASS
	3	2	19.64	19.55	19.54	/	0.43	20.07	19.98	19.97	30.00	PASS
	3	3	19.78	19.6	19.68	/	0.43	20.21	20.03	20.11	30.00	PASS
	6	0	19.85	18.97	19.12	/	0.43	20.28	19.40	19.55	30.00	PASS
16QAM	1	0	19.41	19.37	19.65	/	0.43	19.84	19.80	20.08	30.00	PASS
	1	2	20.05	19.56	19.49	/	0.43	20.48	19.99	19.92	30.00	PASS
	1	5	19.95	19.64	19.77	/	0.43	20.38	20.07	20.20	30.00	PASS
	3	0	19.34	19.71	19.15	/	0.43	19.77	20.14	19.58	30.00	PASS
	3	2	19.33	19.55	19.01	/	0.43	19.76	19.98	19.44	30.00	PASS
	3	3	19.39	19.1	18.92	/	0.43	19.82	19.53	19.35	30.00	PASS
	6	0	18.81	18.6	18.8	/	0.43	19.24	19.03	19.23	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	20.52	20.39	20.44	/	0.43	20.95	20.82	20.87	30.00	PASS
	1	2	19.99	20.2	20.22	/	0.43	20.42	20.63	20.65	30.00	PASS
	1	5	19.43	19.61	19.93	/	0.43	19.86	20.04	20.36	30.00	PASS
	3	0	19.77	19.6	19.53	/	0.43	20.20	20.03	19.96	30.00	PASS
	3	2	19.86	19.61	19.62	/	0.43	20.29	20.04	20.05	30.00	PASS
	3	3	19.75	19.58	19.55	/	0.43	20.18	20.01	19.98	30.00	PASS
	6	0	19.81	19.35	18.96	/	0.43	20.24	19.78	19.39	30.00	PASS
16QAM	1	0	19.46	19.62	19.87	/	0.43	19.89	20.05	20.30	30.00	PASS
	1	2	19.81	19.6	19.78	/	0.43	20.24	20.03	20.21	30.00	PASS
	1	5	20.16	19.46	19.77	/	0.43	20.59	19.89	20.20	30.00	PASS
	3	0	19.32	19.31	19.31	/	0.43	19.75	19.74	19.74	30.00	PASS
	3	2	19.11	19.29	19.33	/	0.43	19.54	19.72	19.76	30.00	PASS
	3	3	19.4	19.1	18.95	/	0.43	19.83	19.53	19.38	30.00	PASS
	6	0	18.84	18.62	18.86	/	0.43	19.27	19.05	19.29	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	20.03	19.71	20.14	-0.63	1.52	19.40	19.08	19.51	34.77	PASS
	1	2	19.91	20.03	19.88	-0.63	1.52	19.28	19.40	19.25	34.77	PASS
	1	5	19.91	19.7	19.92	-0.63	1.52	19.28	19.07	19.29	34.77	PASS
	3	0	19.6	19.88	20.03	-0.63	1.52	18.97	19.25	19.40	34.77	PASS
	3	2	19.83	19.88	19.87	-0.63	1.52	19.20	19.25	19.24	34.77	PASS
	3	3	19.62	19.86	19.89	-0.63	1.52	18.99	19.23	19.26	34.77	PASS
16QAM	6	0	19.6	19.19	19.3	-0.63	1.52	18.97	18.56	18.67	34.77	PASS
	1	0	19.75	19.93	20.09	-0.63	1.52	19.12	19.30	19.46	34.77	PASS
	1	2	19.47	19.41	19.75	-0.63	1.52	18.84	18.78	19.12	34.77	PASS
	1	5	19.64	19.48	19.46	-0.63	1.52	19.01	18.85	18.83	34.77	PASS
	3	0	19.45	19.3	19.4	-0.63	1.52	18.82	18.67	18.77	34.77	PASS
	3	2	19.06	19.43	19.53	-0.63	1.52	18.43	18.80	18.90	34.77	PASS
	3	3	19.24	18.93	19.43	-0.63	1.52	18.61	18.30	18.80	34.77	PASS
	6	0	18.65	18.79	19.47	-0.63	1.52	18.02	18.16	18.84	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	20.07	19.8	19.76	-0.63	1.52	19.44	19.17	19.13	34.77	PASS
	1	2	19.82	19.34	19.8	-0.63	1.52	19.19	18.71	19.17	34.77	PASS
	1	5	19.77	19.66	19.66	-0.63	1.52	19.14	19.03	19.03	34.77	PASS
	3	0	19.63	19.93	20.01	-0.63	1.52	19.00	19.30	19.38	34.77	PASS
	3	2	19.67	19.89	20.01	-0.63	1.52	19.04	19.26	19.38	34.77	PASS
	3	3	19.63	19.84	20.01	-0.63	1.52	19.00	19.21	19.38	34.77	PASS
16QAM	6	0	19.68	19.27	19.37	-0.63	1.52	19.05	18.64	18.74	34.77	PASS
	1	0	19.64	19.7	19.68	-0.63	1.52	19.01	19.07	19.05	34.77	PASS
	1	2	19.44	19.47	19.49	-0.63	1.52	18.81	18.84	18.86	34.77	PASS
	1	5	19.4	19.65	19.7	-0.63	1.52	18.77	19.02	19.07	34.77	PASS
	3	0	19.62	19.4	19.78	-0.63	1.52	18.99	18.77	19.15	34.77	PASS
	3	2	19.49	19.09	19.72	-0.63	1.52	18.86	18.46	19.09	34.77	PASS
	3	3	19.37	19.08	19.46	-0.63	1.52	18.74	18.45	18.83	34.77	PASS
	6	0	19.36	18.85	19.45	-0.63	1.52	18.73	18.22	18.82	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	20.02	20.11	20.09	-0.63	1.52	19.39	19.48	19.46	34.77	PASS
	1	2	19.89	19.61	19.93	-0.63	1.52	19.26	18.98	19.30	34.77	PASS
	1	5	19.44	19.43	19.83	-0.63	1.52	18.81	18.80	19.20	34.77	PASS
	3	0	19.52	19.51	19.67	-0.63	1.52	18.89	18.88	19.04	34.77	PASS
	3	2	19.76	19.44	19.85	-0.63	1.52	19.13	18.81	19.22	34.77	PASS
	3	3	19.69	19.5	19.61	-0.63	1.52	19.06	18.87	18.98	34.77	PASS
16QAM	6	0	19.77	19.28	19.41	-0.63	1.52	19.14	18.65	18.78	34.77	PASS
	1	0	19.84	20.08	20.02	-0.63	1.52	19.21	19.45	19.39	34.77	PASS
	1	2	19.74	19.36	19.98	-0.63	1.52	19.11	18.73	19.35	34.77	PASS
	1	5	19.66	19.58	19.55	-0.63	1.52	19.03	18.95	18.92	34.77	PASS
	3	0	19.55	19.36	19.75	-0.63	1.52	18.92	18.73	19.12	34.77	PASS
	3	2	19.47	19.12	19.46	-0.63	1.52	18.84	18.49	18.83	34.77	PASS
	3	3	19.42	19.05	19.39	-0.63	1.52	18.79	18.42	18.76	34.77	PASS
	6	0	19.26	18.92	19.2	-0.63	1.52	18.63	18.29	18.57	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	20.36	20.47	20.17	-0.63	1.52	19.73	19.84	19.54	34.77	PASS
	1	2	19.89	19.65	19.97	-0.63	1.52	19.26	19.02	19.34	34.77	PASS
	1	5	19.76	19.83	19.83	-0.63	1.52	19.13	19.20	19.20	34.77	PASS
	3	0	19.6	19.99	19.83	-0.63	1.52	18.97	19.36	19.20	34.77	PASS
	3	2	19.86	19.89	19.96	-0.63	1.52	19.23	19.26	19.33	34.77	PASS
	3	3	19.69	19.83	19.96	-0.63	1.52	19.06	19.20	19.33	34.77	PASS
	6	0	19.77	19.24	19.35	-0.63	1.52	19.14	18.61	18.72	34.77	PASS
16QAM	1	0	19.6	19.86	19.73	-0.63	1.52	18.97	19.23	19.10	34.77	PASS
	1	2	19.63	19.7	19.69	-0.63	1.52	19.00	19.07	19.06	34.77	PASS
	1	5	19.52	19.44	19.81	-0.63	1.52	18.89	18.81	19.18	34.77	PASS
	3	0	19.19	19.78	19.65	-0.63	1.52	18.56	19.15	19.02	34.77	PASS
	3	2	19.08	19.15	19.51	-0.63	1.52	18.45	18.52	18.88	34.77	PASS
	3	3	19.02	19.35	19.51	-0.63	1.52	18.39	18.72	18.88	34.77	PASS
	6	0	19.03	18.89	19.35	-0.63	1.52	18.40	18.26	18.72	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	20.19	19.83	19.59	-0.23	1.92	19.96	19.60	19.36	34.77	PASS
	1	2	20.14	19.64	19.69	-0.23	1.92	19.91	19.41	19.46	34.77	PASS
	1	5	19.92	19.73	19.72	-0.23	1.92	19.69	19.50	19.49	34.77	PASS
	3	0	19.94	20	20	-0.23	1.92	19.71	19.77	19.77	34.77	PASS
	3	2	20.09	19.85	19.89	-0.23	1.92	19.86	19.62	19.66	34.77	PASS
	3	3	19.92	19.87	20.01	-0.23	1.92	19.69	19.64	19.78	34.77	PASS
16QAM	6	0	20.03	19.29	19.45	-0.23	1.92	19.80	19.06	19.22	34.77	PASS
	1	0	19.68	19.95	20.51	-0.23	1.92	19.45	19.72	20.28	34.77	PASS
	1	2	19.99	19.47	20.21	-0.23	1.92	19.76	19.24	19.98	34.77	PASS
	1	5	20.26	18.74	19.77	-0.23	1.92	20.03	18.51	19.54	34.77	PASS
	3	0	19.65	19.76	19.65	-0.23	1.92	19.42	19.53	19.42	34.77	PASS
	3	2	19.44	19.47	19.76	-0.23	1.92	19.21	19.24	19.53	34.77	PASS
16QAM	3	3	19.77	19.38	19.46	-0.23	1.92	19.54	19.15	19.23	34.77	PASS
	6	0	19.56	19.1	19.85	-0.23	1.92	19.33	18.87	19.62	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	20.28	20.34	19.97	-0.23	1.92	20.05	20.11	19.74	34.77	PASS
	1	2	19.3	19.26	19.36	-0.23	1.92	19.07	19.03	19.13	34.77	PASS
	1	5	19.83	20.02	20.09	-0.23	1.92	19.60	19.79	19.86	34.77	PASS
	3	0	19.98	20.15	20.05	-0.23	1.92	19.75	19.92	19.82	34.77	PASS
	3	2	19.97	20.01	19.85	-0.23	1.92	19.74	19.78	19.62	34.77	PASS
	3	3	19.82	19.92	19.94	-0.23	1.92	19.59	19.69	19.71	34.77	PASS
16QAM	6	0	20.04	19.46	19.84	-0.23	1.92	19.81	19.23	19.61	34.77	PASS
	1	0	19.34	19.45	19.96	-0.23	1.92	19.11	19.22	19.73	34.77	PASS
	1	2	19.86	19.15	19.96	-0.23	1.92	19.63	18.92	19.73	34.77	PASS
	1	5	19.99	18.96	19.74	-0.23	1.92	19.76	18.73	19.51	34.77	PASS
	3	0	19.97	19.93	19.83	-0.23	1.92	19.74	19.70	19.60	34.77	PASS
	3	2	19.38	19.28	19.18	-0.23	1.92	19.15	19.05	18.95	34.77	PASS
16QAM	3	3	19.59	19.42	19.34	-0.23	1.92	19.36	19.19	19.11	34.77	PASS
	6	0	19.33	19.15	19.66	-0.23	1.92	19.10	18.92	19.43	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)

TeleBGM 2284-A

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	19.98	19.78	19.99	/	2.58	22.56	22.36	22.57	33.01	PASS
	1	2	19.83	19.9	19.76	/	2.58	22.41	22.48	22.34	33.01	PASS
	1	5	19.69	19.69	19.86	/	2.58	22.27	22.27	22.44	33.01	PASS
	3	0	19.35	19.76	19.52	/	2.58	21.93	22.34	22.10	33.01	PASS
	3	2	19.62	19.79	19.46	/	2.58	22.20	22.37	22.04	33.01	PASS
	3	3	19.96	19.59	19.46	/	2.58	22.54	22.17	22.04	33.01	PASS
	6	0	19.67	19.81	19.52	/	2.58	22.25	22.39	22.10	33.01	PASS
16QAM	1	0	19.61	19.54	19.45	/	2.58	22.19	22.12	22.03	33.01	PASS
	1	2	19.64	20	19.66	/	2.58	22.22	22.58	22.24	33.01	PASS
	1	5	19.59	19.45	19.4	/	2.58	22.17	22.03	21.98	33.01	PASS
	3	0	19.86	19.9	19.4	/	2.58	22.44	22.48	21.98	33.01	PASS
	3	2	19.78	19.63	19.43	/	2.58	22.36	22.21	22.01	33.01	PASS
	3	3	19.7	19.45	19.45	/	2.58	22.28	22.03	22.03	33.01	PASS
	6	0	19.57	19.21	19.15	/	2.58	22.15	21.79	21.73	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	19.82	19.85	19.88	/	2.58	22.40	22.43	22.46	33.01	PASS
	1	2	19.36	19.65	19.94	/	2.58	21.94	22.23	22.52	33.01	PASS
	1	5	19.68	19.76	19.74	/	2.58	22.26	22.34	22.32	33.01	PASS
	3	0	19.26	19.63	19.46	/	2.58	21.84	22.21	22.04	33.01	PASS
	3	2	19.43	19.55	19.34	/	2.58	22.01	22.13	21.92	33.01	PASS
	3	3	19.33	19.47	19.48	/	2.58	21.91	22.05	22.06	33.01	PASS
	6	0	19.45	19.38	19.38	/	2.58	22.03	21.96	21.96	33.01	PASS
16QAM	1	0	19.55	19.4	19.35	/	2.58	22.13	21.98	21.93	33.01	PASS
	1	2	19.41	18.91	19.24	/	2.58	21.99	21.49	21.82	33.01	PASS
	1	5	19.36	19.4	19.38	/	2.58	21.94	21.98	21.96	33.01	PASS
	3	0	19.25	19.31	19.02	/	2.58	21.83	21.89	21.60	33.01	PASS
	3	2	19.12	19.15	18.84	/	2.58	21.70	21.73	21.42	33.01	PASS
	3	3	19.26	19.25	18.8	/	2.58	21.84	21.83	21.38	33.01	PASS
	6	0	19.34	18.99	19.22	/	2.58	21.92	21.57	21.80	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	20.21	20.27	20.18	/	2.58	22.79	22.85	22.76	33.01	PASS
	1	2	19.53	19.76	20.17	/	2.58	22.11	22.34	22.75	33.01	PASS
	1	5	19.69	19.78	19.97	/	2.58	22.27	22.36	22.55	33.01	PASS
	3	0	19.26	19.53	19.41	/	2.58	21.84	22.11	21.99	33.01	PASS
	3	2	19.33	19.56	19.19	/	2.58	21.91	22.14	21.77	33.01	PASS
	3	3	19.27	19.43	19.31	/	2.58	21.85	22.01	21.89	33.01	PASS
	6	0	19.34	19.29	19.38	/	2.58	21.92	21.87	21.96	33.01	PASS
16QAM	1	0	19.93	20.06	20.06	/	2.58	22.51	22.64	22.64	33.01	PASS
	1	2	19.32	18.61	19.36	/	2.58	21.90	21.19	21.94	33.01	PASS
	1	5	19.78	19.65	19.66	/	2.58	22.36	22.23	22.24	33.01	PASS
	3	0	19.54	19.49	19.07	/	2.58	22.12	22.07	21.65	33.01	PASS
	3	2	19.33	19.19	18.87	/	2.58	21.91	21.77	21.45	33.01	PASS
	3	3	19.14	19.16	18.84	/	2.58	21.72	21.74	21.42	33.01	PASS
	6	0	19.24	18.85	19.21	/	2.58	21.82	21.43	21.79	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	20.26	20.27	20.36	/	2.58	22.84	22.85	22.94	33.01	PASS
	1	2	19.95	19.78	20.13	/	2.58	22.53	22.36	22.71	33.01	PASS
	1	5	19.71	20.01	19.91	/	2.58	22.29	22.59	22.49	33.01	PASS
	3	0	19.32	19.71	19.54	/	2.58	21.90	22.29	22.12	33.01	PASS
	3	2	19.62	19.61	19.4	/	2.58	22.20	22.19	21.98	33.01	PASS
	3	3	19.35	19.47	19.44	/	2.58	21.93	22.05	22.02	33.01	PASS
	6	0	19.35	19.43	19.49	/	2.58	21.93	22.01	22.07	33.01	PASS
16QAM	1	0	19.9	20.14	20.14	/	2.58	22.48	22.72	22.72	33.01	PASS
	1	2	19.63	19.69	19.65	/	2.58	22.21	22.27	22.23	33.01	PASS
	1	5	19.79	19.78	19.72	/	2.58	22.37	22.36	22.30	33.01	PASS
	3	0	19.56	19.41	19.07	/	2.58	22.14	21.99	21.65	33.01	PASS
	3	2	19.22	19.14	18.94	/	2.58	21.80	21.72	21.52	33.01	PASS
	3	3	19.56	19.16	18.81	/	2.58	22.14	21.74	21.39	33.01	PASS
	6	0	19.44	18.9	19.12	/	2.58	22.02	21.48	21.70	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	20.3	20.3	20.27	/	2.58	22.88	22.88	22.85	33.01	PASS
	1	2	19.97	20.04	20.13	/	2.58	22.55	22.62	22.71	33.01	PASS
	1	5	19.63	19.95	19.83	/	2.58	22.21	22.53	22.41	33.01	PASS
	3	0	19.43	19.62	19.5	/	2.58	22.01	22.20	22.08	33.01	PASS
	3	2	19.56	19.51	19.34	/	2.58	22.14	22.09	21.92	33.01	PASS
	3	3	19.27	19.51	19.41	/	2.58	21.85	22.09	21.99	33.01	PASS
	6	0	19.54	19.39	19.47	/	2.58	22.12	21.97	22.05	33.01	PASS
16QAM	1	0	20.05	20.11	20.02	/	2.58	22.63	22.69	22.60	33.01	PASS
	1	2	19.34	19.68	19.34	/	2.58	21.92	22.26	21.92	33.01	PASS
	1	5	19.61	19.72	19.8	/	2.58	22.19	22.30	22.38	33.01	PASS
	3	0	19.36	19.48	19.04	/	2.58	21.94	22.06	21.62	33.01	PASS
	3	2	19.23	19.14	18.94	/	2.58	21.81	21.72	21.52	33.01	PASS
	3	3	19.45	19.17	18.86	/	2.58	22.03	21.75	21.44	33.01	PASS
	6	0	19.55	18.92	18.77	/	2.58	22.13	21.50	21.35	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	20.21	20.24	20.19	/	2.58	22.79	22.82	22.77	33.01	PASS
	1	2	20.09	20.11	20.27	/	2.58	22.67	22.69	22.85	33.01	PASS
	1	5	19.71	19.94	19.98	/	2.58	22.29	22.52	22.56	33.01	PASS
	3	0	19.39	19.67	19.4	/	2.58	21.97	22.25	21.98	33.01	PASS
	3	2	19.68	19.58	19.43	/	2.58	22.26	22.16	22.01	33.01	PASS
	3	3	19.48	19.5	19.46	/	2.58	22.06	22.08	22.04	33.01	PASS
	6	0	19.65	19.38	19.37	/	2.58	22.23	21.96	21.95	33.01	PASS
16QAM	1	0	19.91	20.06	20.05	/	2.58	22.49	22.64	22.63	33.01	PASS
	1	2	19.66	20.08	19.42	/	2.58	22.24	22.66	22.00	33.01	PASS
	1	5	19.94	19.5	19.9	/	2.58	22.52	22.08	22.48	33.01	PASS
	3	0	19.53	19.29	19.09	/	2.58	22.11	21.87	21.67	33.01	PASS
	3	2	19.42	19.18	18.95	/	2.58	22.00	21.76	21.53	33.01	PASS
	3	3	19.52	19.07	18.87	/	2.58	22.10	21.65	21.45	33.01	PASS
	6	0	19.27	19.05	18.58	/	2.58	21.85	21.63	21.16	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	20.32	20.04	20.33	/	1.39	21.71	21.43	21.72	30.00	PASS
	1	2	19.82	19.25	20.2	/	1.39	21.21	20.64	21.59	30.00	PASS
	1	5	19.82	19.61	19.53	/	1.39	21.21	21.00	20.92	30.00	PASS
	3	0	19.71	19.63	19.52	/	1.39	21.10	21.02	20.91	30.00	PASS
	3	2	19.9	19.57	19.59	/	1.39	21.29	20.96	20.98	30.00	PASS
	3	3	19.32	19.26	19.66	/	1.39	20.71	20.65	21.05	30.00	PASS
16QAM	6	0	19.8	18.93	18.97	/	1.39	21.19	20.32	20.36	30.00	PASS
	1	0	19.41	19.97	19.28	/	1.39	20.80	21.36	20.67	30.00	PASS
	1	2	19.48	19.69	19.36	/	1.39	20.87	21.08	20.75	30.00	PASS
	1	5	19.56	19.6	19.43	/	1.39	20.95	20.99	20.82	30.00	PASS
	3	0	19.35	19.67	19.14	/	1.39	20.74	21.06	20.53	30.00	PASS
	3	2	19.12	19.28	19.06	/	1.39	20.51	20.67	20.45	30.00	PASS
	3	3	19.4	19.1	19.09	/	1.39	20.79	20.49	20.48	30.00	PASS
	6	0	19.35	18.57	19.17	/	1.39	20.74	19.96	20.56	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	20.3	20.24	20.25	/	1.39	21.69	21.63	21.64	30.00	PASS
	1	2	19.79	19.42	19.49	/	1.39	21.18	20.81	20.88	30.00	PASS
	1	5	19.83	19.73	19.56	/	1.39	21.22	21.12	20.95	30.00	PASS
	3	0	19.69	20.06	19.85	/	1.39	21.08	21.45	21.24	30.00	PASS
	3	2	19.92	19.93	19.51	/	1.39	21.31	21.32	20.90	30.00	PASS
	3	3	19.79	19.68	19.55	/	1.39	21.18	21.07	20.94	30.00	PASS
16QAM	6	0	19.85	19.4	18.92	/	1.39	21.24	20.79	20.31	30.00	PASS
	1	0	19.46	19.69	19.65	/	1.39	20.85	21.08	21.04	30.00	PASS
	1	2	19.83	18.61	19.4	/	1.39	21.22	20.00	20.79	30.00	PASS
	1	5	20.15	18.65	19.47	/	1.39	21.54	20.04	20.86	30.00	PASS
	3	0	19.31	19.49	19.12	/	1.39	20.70	20.88	20.51	30.00	PASS
	3	2	19.15	19.23	19.1	/	1.39	20.54	20.62	20.49	30.00	PASS
	3	3	19.44	19.39	18.83	/	1.39	20.83	20.78	20.22	30.00	PASS
	6	0	18.81	18.99	18.74	/	1.39	20.20	20.38	20.13	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	20.21	20.17	20.33	/	1.39	21.60	21.56	21.72	30.00	PASS
	1	2	20.19	19.4	19.65	/	1.39	21.58	20.79	21.04	30.00	PASS
	1	5	19.8	19.53	19.64	/	1.39	21.19	20.92	21.03	30.00	PASS
	3	0	19.77	19.41	19.5	/	1.39	21.16	20.80	20.89	30.00	PASS
	3	2	19.84	19.55	19.5	/	1.39	21.23	20.94	20.89	30.00	PASS
	3	3	19.7	19.34	19.56	/	1.39	21.09	20.73	20.95	30.00	PASS
16QAM	6	0	19.82	19.38	19.03	/	1.39	21.21	20.77	20.42	30.00	PASS
	1	0	19.94	19.66	19.33	/	1.39	21.33	21.05	20.72	30.00	PASS
	1	2	19.77	19.56	19.34	/	1.39	21.16	20.95	20.73	30.00	PASS
	1	5	19.14	19.01	19.46	/	1.39	20.53	20.40	20.85	30.00	PASS
	3	0	19.34	19.63	19.57	/	1.39	20.73	21.02	20.96	30.00	PASS
	3	2	19.14	19.57	18.98	/	1.39	20.53	20.96	20.37	30.00	PASS
	3	3	18.96	19.19	19.04	/	1.39	20.35	20.58	20.43	30.00	PASS
	6	0	18.86	19.02	19.35	/	1.39	20.25	20.41	20.74	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	20.29	20.32	20.12	/	1.39	21.68	21.71	21.51	30.00	PASS
	1	2	20	19.95	19.6	/	1.39	21.39	21.34	20.99	30.00	PASS
	1	5	19.82	19.65	19.62	/	1.39	21.21	21.04	21.01	30.00	PASS
	3	0	19.75	19.61	19.68	/	1.39	21.14	21.00	21.07	30.00	PASS
	3	2	19.86	19.6	19.59	/	1.39	21.25	20.99	20.98	30.00	PASS
	3	3	19.72	19.66	19.62	/	1.39	21.11	21.05	21.01	30.00	PASS
	6	0	19.77	18.95	19.03	/	1.39	21.16	20.34	20.42	30.00	PASS
16QAM	1	0	19.89	19.43	19.75	/	1.39	21.28	20.82	21.14	30.00	PASS
	1	2	19.78	19.52	19.79	/	1.39	21.17	20.91	21.18	30.00	PASS
	1	5	20.01	19.43	19.76	/	1.39	21.40	20.82	21.15	30.00	PASS
	3	0	19.33	19.41	19.57	/	1.39	20.72	20.80	20.96	30.00	PASS
	3	2	19.49	19.09	19.23	/	1.39	20.88	20.48	20.62	30.00	PASS
	3	3	19.45	19.11	19.11	/	1.39	20.84	20.50	20.50	30.00	PASS
	6	0	18.84	19.01	19.24	/	1.39	20.23	20.40	20.63	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	20.38	20.33	19.98	/	1.39	21.77	21.72	21.37	30.00	PASS
	1	2	19.82	19.48	19.66	/	1.39	21.21	20.87	21.05	30.00	PASS
	1	5	19.41	19.64	19.47	/	1.39	20.80	21.03	20.86	30.00	PASS
	3	0	19.73	19.68	19.62	/	1.39	21.12	21.07	21.01	30.00	PASS
	3	2	19.64	19.55	19.54	/	1.39	21.03	20.94	20.93	30.00	PASS
	3	3	19.78	19.6	19.68	/	1.39	21.17	20.99	21.07	30.00	PASS
	6	0	19.85	18.97	19.12	/	1.39	21.24	20.36	20.51	30.00	PASS
16QAM	1	0	19.41	19.37	19.65	/	1.39	20.80	20.76	21.04	30.00	PASS
	1	2	20.05	19.56	19.49	/	1.39	21.44	20.95	20.88	30.00	PASS
	1	5	19.95	19.64	19.77	/	1.39	21.34	21.03	21.16	30.00	PASS
	3	0	19.34	19.71	19.15	/	1.39	20.73	21.10	20.54	30.00	PASS
	3	2	19.33	19.55	19.01	/	1.39	20.72	20.94	20.40	30.00	PASS
	3	3	19.39	19.1	18.92	/	1.39	20.78	20.49	20.31	30.00	PASS
	6	0	18.81	18.6	18.8	/	1.39	20.20	19.99	20.19	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	20.52	20.39	20.44	/	1.39	21.91	21.78	21.83	30.00	PASS
	1	2	19.99	20.2	20.22	/	1.39	21.38	21.59	21.61	30.00	PASS
	1	5	19.43	19.61	19.93	/	1.39	20.82	21.00	21.32	30.00	PASS
	3	0	19.77	19.6	19.53	/	1.39	21.16	20.99	20.92	30.00	PASS
	3	2	19.86	19.61	19.62	/	1.39	21.25	21.00	21.01	30.00	PASS
	3	3	19.75	19.58	19.55	/	1.39	21.14	20.97	20.94	30.00	PASS
	6	0	19.81	19.35	18.96	/	1.39	21.20	20.74	20.35	30.00	PASS
16QAM	1	0	19.46	19.62	19.87	/	1.39	20.85	21.01	21.26	30.00	PASS
	1	2	19.81	19.6	19.78	/	1.39	21.20	20.99	21.17	30.00	PASS
	1	5	20.16	19.46	19.77	/	1.39	21.55	20.85	21.16	30.00	PASS
	3	0	19.32	19.31	19.31	/	1.39	20.71	20.70	20.70	30.00	PASS
	3	2	19.11	19.29	19.33	/	1.39	20.50	20.68	20.72	30.00	PASS
	3	3	19.4	19.1	18.95	/	1.39	20.79	20.49	20.34	30.00	PASS
	6	0	18.84	18.62	18.86	/	1.39	20.23	20.01	20.25	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	20.03	19.71	20.14	-1.86	0.29	18.17	17.85	18.28	34.77	PASS
	1	2	19.91	20.03	19.88	-1.86	0.29	18.05	18.17	18.02	34.77	PASS
	1	5	19.91	19.7	19.92	-1.86	0.29	18.05	17.84	18.06	34.77	PASS
	3	0	19.6	19.88	20.03	-1.86	0.29	17.74	18.02	18.17	34.77	PASS
	3	2	19.83	19.88	19.87	-1.86	0.29	17.97	18.02	18.01	34.77	PASS
	3	3	19.62	19.86	19.89	-1.86	0.29	17.76	18.00	18.03	34.77	PASS
16QAM	6	0	19.6	19.19	19.3	-1.86	0.29	17.74	17.33	17.44	34.77	PASS
	1	0	19.75	19.93	20.09	-1.86	0.29	17.89	18.07	18.23	34.77	PASS
	1	2	19.47	19.41	19.75	-1.86	0.29	17.61	17.55	17.89	34.77	PASS
	1	5	19.64	19.48	19.46	-1.86	0.29	17.78	17.62	17.60	34.77	PASS
	3	0	19.45	19.3	19.4	-1.86	0.29	17.59	17.44	17.54	34.77	PASS
	3	2	19.06	19.43	19.53	-1.86	0.29	17.20	17.57	17.67	34.77	PASS
	3	3	19.24	18.93	19.43	-1.86	0.29	17.38	17.07	17.57	34.77	PASS
	6	0	18.65	18.79	19.47	-1.86	0.29	16.79	16.93	17.61	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	20.07	19.8	19.76	-1.86	0.29	18.21	17.94	17.90	34.77	PASS
	1	2	19.82	19.34	19.8	-1.86	0.29	17.96	17.48	17.94	34.77	PASS
	1	5	19.77	19.66	19.66	-1.86	0.29	17.91	17.80	17.80	34.77	PASS
	3	0	19.63	19.93	20.01	-1.86	0.29	17.77	18.07	18.15	34.77	PASS
	3	2	19.67	19.89	20.01	-1.86	0.29	17.81	18.03	18.15	34.77	PASS
	3	3	19.63	19.84	20.01	-1.86	0.29	17.77	17.98	18.15	34.77	PASS
16QAM	6	0	19.68	19.27	19.37	-1.86	0.29	17.82	17.41	17.51	34.77	PASS
	1	0	19.64	19.7	19.68	-1.86	0.29	17.78	17.84	17.82	34.77	PASS
	1	2	19.44	19.47	19.49	-1.86	0.29	17.58	17.61	17.63	34.77	PASS
	1	5	19.4	19.65	19.7	-1.86	0.29	17.54	17.79	17.84	34.77	PASS
	3	0	19.62	19.4	19.78	-1.86	0.29	17.76	17.54	17.92	34.77	PASS
	3	2	19.49	19.09	19.72	-1.86	0.29	17.63	17.23	17.86	34.77	PASS
	3	3	19.37	19.08	19.46	-1.86	0.29	17.51	17.22	17.60	34.77	PASS
	6	0	19.36	18.85	19.45	-1.86	0.29	17.50	16.99	17.59	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	20.02	20.11	20.09	-1.86	0.29	18.16	18.25	18.23	34.77	PASS
	1	2	19.89	19.61	19.93	-1.86	0.29	18.03	17.75	18.07	34.77	PASS
	1	5	19.44	19.43	19.83	-1.86	0.29	17.58	17.57	17.97	34.77	PASS
	3	0	19.52	19.51	19.67	-1.86	0.29	17.66	17.65	17.81	34.77	PASS
	3	2	19.76	19.44	19.85	-1.86	0.29	17.90	17.58	17.99	34.77	PASS
	3	3	19.69	19.5	19.61	-1.86	0.29	17.83	17.64	17.75	34.77	PASS
16QAM	6	0	19.77	19.28	19.41	-1.86	0.29	17.91	17.42	17.55	34.77	PASS
	1	0	19.84	20.08	20.02	-1.86	0.29	17.98	18.22	18.16	34.77	PASS
	1	2	19.74	19.36	19.98	-1.86	0.29	17.88	17.50	18.12	34.77	PASS
	1	5	19.66	19.58	19.55	-1.86	0.29	17.80	17.72	17.69	34.77	PASS
	3	0	19.55	19.36	19.75	-1.86	0.29	17.69	17.50	17.89	34.77	PASS
	3	2	19.47	19.12	19.46	-1.86	0.29	17.61	17.26	17.60	34.77	PASS
	3	3	19.42	19.05	19.39	-1.86	0.29	17.56	17.19	17.53	34.77	PASS
	6	0	19.26	18.92	19.2	-1.86	0.29	17.40	17.06	17.34	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	20.52	20.39	20.44	-1.86	0.29	18.66	18.53	18.58	34.77	PASS
	1	2	19.99	20.2	20.22	-1.86	0.29	18.13	18.34	18.36	34.77	PASS
	1	5	19.43	19.61	19.93	-1.86	0.29	17.57	17.75	18.07	34.77	PASS
	3	0	19.77	19.6	19.53	-1.86	0.29	17.91	17.74	17.67	34.77	PASS
	3	2	19.86	19.61	19.62	-1.86	0.29	18.00	17.75	17.76	34.77	PASS
	3	3	19.75	19.58	19.55	-1.86	0.29	17.89	17.72	17.69	34.77	PASS
	6	0	19.81	19.35	18.96	-1.86	0.29	17.95	17.49	17.10	34.77	PASS
16QAM	1	0	19.46	19.62	19.87	-1.86	0.29	17.60	17.76	18.01	34.77	PASS
	1	2	19.81	19.6	19.78	-1.86	0.29	17.95	17.74	17.92	34.77	PASS
	1	5	20.16	19.46	19.77	-1.86	0.29	18.30	17.60	17.91	34.77	PASS
	3	0	19.32	19.31	19.31	-1.86	0.29	17.46	17.45	17.45	34.77	PASS
	3	2	19.11	19.29	19.33	-1.86	0.29	17.25	17.43	17.47	34.77	PASS
	3	3	19.4	19.1	18.95	-1.86	0.29	17.54	17.24	17.09	34.77	PASS
	6	0	18.84	18.62	18.86	-1.86	0.29	16.98	16.76	17.00	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	20.19	19.83	19.59	-1.32	0.83	18.87	18.51	18.27	34.77	PASS
	1	2	20.14	19.64	19.69	-1.32	0.83	18.82	18.32	18.37	34.77	PASS
	1	5	19.92	19.73	19.72	-1.32	0.83	18.60	18.41	18.40	34.77	PASS
	3	0	19.94	20	20	-1.32	0.83	18.62	18.68	18.68	34.77	PASS
	3	2	20.09	19.85	19.89	-1.32	0.83	18.77	18.53	18.57	34.77	PASS
	3	3	19.92	19.87	20.01	-1.32	0.83	18.60	18.55	18.69	34.77	PASS
16QAM	6	0	20.03	19.29	19.45	-1.32	0.83	18.71	17.97	18.13	34.77	PASS
	1	0	19.68	19.95	20.51	-1.32	0.83	18.36	18.63	19.19	34.77	PASS
	1	2	19.99	19.47	20.21	-1.32	0.83	18.67	18.15	18.89	34.77	PASS
	1	5	20.26	18.74	19.77	-1.32	0.83	18.94	17.42	18.45	34.77	PASS
	3	0	19.65	19.76	19.65	-1.32	0.83	18.33	18.44	18.33	34.77	PASS
	3	2	19.44	19.47	19.76	-1.32	0.83	18.12	18.15	18.44	34.77	PASS
16QAM	3	3	19.77	19.38	19.46	-1.32	0.83	18.45	18.06	18.14	34.77	PASS
	6	0	19.56	19.1	19.85	-1.32	0.83	18.24	17.78	18.53	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	20.28	20.34	19.97	-1.32	0.83	18.96	19.02	18.65	34.77	PASS
	1	2	19.3	19.26	19.36	-1.32	0.83	17.98	17.94	18.04	34.77	PASS
	1	5	19.83	20.02	20.09	-1.32	0.83	18.51	18.70	18.77	34.77	PASS
	3	0	19.98	20.15	20.05	-1.32	0.83	18.66	18.83	18.73	34.77	PASS
	3	2	19.97	20.01	19.85	-1.32	0.83	18.65	18.69	18.53	34.77	PASS
	3	3	19.82	19.92	19.94	-1.32	0.83	18.50	18.60	18.62	34.77	PASS
16QAM	6	0	20.04	19.46	19.84	-1.32	0.83	18.72	18.14	18.52	34.77	PASS
	1	0	19.34	19.45	19.96	-1.32	0.83	18.02	18.13	18.64	34.77	PASS
	1	2	19.86	19.15	19.96	-1.32	0.83	18.54	17.83	18.64	34.77	PASS
	1	5	19.99	18.96	19.74	-1.32	0.83	18.67	17.64	18.42	34.77	PASS
	3	0	19.97	19.93	19.83	-1.32	0.83	18.65	18.61	18.51	34.77	PASS
	3	2	19.38	19.28	19.18	-1.32	0.83	18.06	17.96	17.86	34.77	PASS
16QAM	3	3	19.59	19.42	19.34	-1.32	0.83	18.27	18.10	18.02	34.77	PASS
	6	0	19.33	19.15	19.66	-1.32	0.83	18.01	17.83	18.34	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)