



REPORT No.: SZ21080257S01

## Annex E Conducted Power

**Conducted Power**

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251	128		189	251		
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8			
GSM 1 Tx slot	30.55	30.57	30.61	31.00	21.55	21.57	21.61	22.00	
GPRS 1 Tx slot	32.51	32.68	32.59	34.00	23.51	23.68	23.59	25.00	
GPRS 2 Tx slots	30.31	30.43	30.39	31.00	24.31	24.43	24.39	25.00	
GPRS 3 Tx slots	28.42	28.51	28.44	29.00	24.16	24.25	24.18	24.74	
GPRS 4 Tx slots	26.16	26.25	26.19	27.00	23.16	23.25	23.19	24.00	
EDGE 1 Tx slot	26.77	26.80	26.73	27.00	17.77	17.80	17.73	18.00	
EDGE 2 Tx slots	26.59	26.63	26.57	27.00	20.59	20.63	20.57	21.00	
EDGE 3 Tx slots	26.45	26.43	26.41	27.00	22.19	22.17	22.15	22.74	
EDGE 4 Tx slots	26.27	26.24	26.21	27.00	23.27	23.24	23.21	24.00	
Mode		Max.	32.68			Max.	24.43		
Attenuator	Cable Loss : 0.6								

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810	512		661	810		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8			
GSM 1 Tx slot	27.18	27.06	27.02	28.00	18.18	18.06	18.02	19.00	
GPRS 1 Tx slot	30.22	30.24	30.21	31.00	21.22	21.24	21.21	22.00	
GPRS 2 Tx slots	26.44	26.68	26.39	27.50	20.44	20.68	20.39	21.50	
GPRS 3 Tx slots	25.21	25.53	25.23	26.00	20.95	21.27	20.97	21.74	
GPRS 4 Tx slots	23.17	23.51	23.22	24.00	20.17	20.51	20.22	21.00	
EDGE 1 Tx slot	25.31	25.44	25.29	26.00	16.31	16.44	16.29	17.00	
EDGE 2 Tx slots	25.24	25.40	25.26	26.00	19.24	19.40	19.26	20.00	
EDGE 3 Tx slots	25.03	25.26	25.11	26.00	20.77	21.00	20.85	21.74	
EDGE 4 Tx slots	23.16	23.23	23.01	24.00	20.16	20.23	20.01	21.00	
Mode		Max.	30.24			Max.	21.27		
Attenuator	Cable Loss : 0.8								
Date	2022.03.08								

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
TX Channel	9262	9400	9538	4132		4182	4233		
Rx Channel	9662	9800	9938	4357	4407	4458			
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	22.26	22.55	22.37	23.00	21.51	21.61	21.55	22.00
3GPP Rel 6	HSDPA Subtest-1	22.45	22.35	22.25	23.00	21.22	21.46	21.34	22.00
3GPP Rel 6	HSDPA Subtest-2	22.19	21.94	21.80	22.50	21.23	21.21	21.31	22.00
3GPP Rel 6	HSDPA Subtest-3	22.29	22.03	21.92	22.50	20.92	20.92	21.01	21.50
3GPP Rel 6	HSDPA Subtest-4	22.02	21.73	21.61	22.50	20.83	20.82	20.91	21.50
3GPP Rel 6	HSUPA Subtest-1	22.13	21.89	21.77	22.50	21.42	21.34	21.39	22.00
3GPP Rel 6	HSUPA Subtest-2	22.22	21.95	21.80	22.50	21.39	21.28	21.34	22.00
3GPP Rel 6	HSUPA Subtest-3	22.04	21.83	21.73	22.50	21.40	21.32	21.28	22.00
3GPP Rel 6	HSUPA Subtest-4	22.21	21.96	21.87	22.50	21.35	21.23	21.22	22.00
3GPP Rel 6	HSUPA Subtest-5	22.08	21.87	21.76	22.50	21.39	21.29	21.29	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.95	21.82	21.79	22.50	21.26	21.24	21.22	22.00
Attenuator		Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	22.55			Max.	21.61		

**Band 2 (1900MHz Band)  
Part 24F**

BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.25	23.27	23.19	24
20	QPSK	1	49	23.05	23.12	23.11	
20	QPSK	1	99	22.98	23.08	23.04	23
20	QPSK	50	0	22.60	22.61	22.55	
20	QPSK	50	24	22.44	22.50	22.34	23
20	QPSK	50	50	22.12	22.14	22.25	
20	QPSK	100	0	22.22	22.46	22.34	23
20	16QAM	1	0	22.47	22.50	22.48	
20	16QAM	1	49	22.22	22.29	22.30	23
20	16QAM	1	99	22.05	22.15	22.21	
20	16QAM	50	0	21.23	21.22	21.18	22
20	16QAM	50	24	21.11	21.18	21.16	
20	16QAM	50	50	21.12	21.17	21.15	22
20	16QAM	100	0	21.21	21.24	21.21	
20	64QAM	1	0	21.24	21.34	21.26	22
20	64QAM	1	49	21.19	21.23	21.20	
20	64QAM	1	99	21.12	21.15	21.12	22
20	64QAM	50	0	21.23	21.23	21.20	
20	64QAM	50	24	21.20	21.24	21.25	22
20	64QAM	50	50	21.13	21.29	21.20	
20	64QAM	100	0	21.22	21.11	21.16	

**Band 4 (AWS Band)  
Part 271 (only on channel required)**

BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.04	23.16	23.07	24
20	QPSK	1	49	23.04	23.08	23.03	
20	QPSK	1	99	23.01	23.01	22.98	23
20	QPSK	50	0	22.35	22.51	22.45	
20	QPSK	50	24	22.37	22.38	22.38	23
20	QPSK	50	50	22.36	22.32	22.35	
20	QPSK	100	0	22.26	22.42	22.31	23
20	16QAM	1	0	22.54	22.62	22.71	
20	16QAM	1	49	22.38	22.48	22.53	23
20	16QAM	1	99	22.35	22.52	22.48	
20	16QAM	50	0	21.19	21.27	21.29	22
20	16QAM	50	24	21.13	21.12	21.16	
20	16QAM	50	50	21.03	21.08	21.10	22
20	16QAM	100	0	21.10	21.17	21.13	
20	64QAM	1	0	21.49	21.22	21.31	22
20	64QAM	1	49	21.30	21.18	21.22	
20	64QAM	1	99	21.13	21.14	21.15	22
20	64QAM	50	0	21.17	21.22	21.19	
20	64QAM	50	24	21.13	21.16	21.17	22
20	64QAM	50	50	21.10	21.11	21.13	
20	64QAM	100	0	21.09	21.10	21.12	

3	16QAM	8	7	21.04	21.11	21.09	22
3	16QAM	15	0	21.13	21.18	21.15	
3	64QAM	1	0	21.20	21.32	21.24	
3	64QAM	1	8	21.15	21.21	21.18	
3	64QAM	1	14	21.08	21.13	21.10	
3	64QAM	8	0	21.19	21.21	21.18	
3	64QAM	8	4	21.16	21.22	21.23	22
3	64QAM	8	7	21.09	21.27	21.18	
3	64QAM	15	0	21.18	21.09	21.14	
Channel				18807	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.18	23.24	23.14	24
1.4	QPSK	1	3	22.99	23.09	23.06	
1.4	QPSK	1	5	22.93	23.05	22.99	
1.4	QPSK	3	0	22.06	22.03	22.05	
1.4	QPSK	3	1	22.01	22.02	22.04	
1.4	QPSK	3	3	22.04	22.11	22.08	
1.4	QPSK	6	0	21.90	21.96	22.09	23
1.4	16QAM	1	0	22.38	22.45	22.41	
1.4	16QAM	1	3	22.13	22.24	22.23	23
1.4	16QAM	1	5	21.96	22.10	22.14	
1.4	16QAM	3	0	22.13	22.17	22.11	
1.4	16QAM	3	1	22.04	22.13	22.09	
1.4	16QAM	3	3	22.03	22.12	22.08	22
1.4	16QAM	6	0	21.13	21.21	21.16	
1.4	64QAM	1	0	21.16	21.31	21.21	22
1.4	64QAM	1	3	21.12	21.20	21.15	
1.4	64QAM	1	5	21.06	21.12	21.07	
1.4	64QAM	3	0	21.15	21.20	21.15	
1.4	64QAM	3	1	21.14	21.21	21.20	
1.4	64QAM	3	3	21.08	21.26	21.15	
1.4	64QAM	6	0	21.13	21.08	21.11	

3	16QAM	8	7	20.97	21.04	21.04	22
3	16QAM	15	0	21.04	21.13	21.07	
3	64QAM	1	0	21.43	21.18	21.25	
3	64QAM	1	8	21.24	21.14	21.16	
3	64QAM	1	14	21.07	21.10	21.09	
3	64QAM	8	0	21.11	21.18	21.13	
3	64QAM	8	4	21.07	21.12	21.11	22
3	64QAM	8	7	21.04	21.07	21.07	
3	64QAM	15	0	21.03	21.06	21.06	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.99	23.09	23.05	24
1.4	QPSK	1	3	22.99	23.01	23.03	
1.4	QPSK	1	5	22.96	22.94	22.99	
1.4	QPSK	3	0	22.54	22.68	22.66	
1.4	QPSK	3	1	22.56	22.53	22.59	
1.4	QPSK	3	3	22.55	22.49	22.58	
1.4	QPSK	6	0	21.86	22.00	21.95	23
1.4	16QAM	1	0	22.48	22.54	22.69	
1.4	16QAM	1	3	22.32	22.40	22.51	23
1.4	16QAM	1	5	22.29	22.44	22.46	
1.4	16QAM	3	0	22.13	22.19	22.27	
1.4	16QAM	3	1	22.07	22.04	22.14	
1.4	16QAM	3	3	21.97	22.00	22.08	22
1.4	16QAM	6	0	21.04	21.09	21.11	
1.4	64QAM	1	0	21.45	21.16	21.31	22
1.4	64QAM	1	3	21.26	21.12	21.22	
1.4	64QAM	1	5	21.09	21.08	21.15	
1.4	64QAM	3	0	21.13	21.16	21.19	
1.4	64QAM	3	1	21.09	21.10	21.17	
1.4	64QAM	3	3	21.06	21.05	21.13	
1.4	64QAM	6	0	21.03	21.02	21.10	



## 2.4GHz WLAN

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	<b>13.86</b>	14.50	12	100.00
		CH 7	2442	9.40	10.00	12	
		CH 13	2472	10.32	11.00	12	
	802.11g 6Mbps	CH 1	2412	12.74	13.50	12	98.57
		CH 7	2442	10.70	11.50	12	
		CH 13	2472	9.41	10.00	12	
	802.11n-HT20 MCS0	CH 1	2412	11.16	12.00	12	98.47
		CH 7	2442	9.41	10.00	12	
		CH 13	2472	9.72	10.50	12	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	<b>4.67</b>	2.75	2.76
	CH 39	2441	3.82	1.48	1.55
	CH 78	2480	1.85	-0.69	-0.63
Tune-up Limit			5.0	3.0	3.0
Duty Cycle %			77.07	77.07	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-3.41
	CH 19	2440	-4.14
	CH 39	2480	-5.84
Tune-up Limit			0.5
Duty Cycle %			62.4