



REPORT No.: SZ22070305S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacture document.

## Conducted Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel	128	169	251	128		169	251			
Frequency (MHz)	824.2	836.4	848.8	29.00	824.2	836.4	848.8	20.00	0.31	
GSM 1 Tx slot	28.01	28.19	28.07	29.00	19.01	19.19	19.07	20.00		
GPRS 1 Tx slot	27.88	28.05	27.90	29.00	18.88	19.05	18.90	20.00		
GPRS 2 Tx slots	26.39	26.34	26.25	27.00	20.39	20.34	20.25	21.00		
GPRS 3 Tx slots	24.52	24.70	24.57	25.00	20.26	20.44	20.31	20.74		
GPRS 4 Tx slots	22.38	22.52	22.39	23.00	19.38	19.52	19.39	20.00		
EDGE 1 Tx slot	22.31	22.45	22.41	23.00	13.31	13.45	13.41	14.00		
EDGE 2 Tx slots	20.26	20.38	20.34	21.00	14.26	14.38	14.34	15.00		
EDGE 3 Tx slots	18.58	18.61	18.48	19.50	14.32	14.35	14.22	15.24		
EDGE 4 Tx slots	15.86	16.12	15.92	17.00	12.86	13.12	12.92	14.00		
Mode		Max.	28.19			Max.	20.44			
Attenuator	Cable Loss : 0.6									

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel	512	661	810	512		661	810			
Frequency (MHz)	1850.2	1880	1909.8	24.00	1850.2	1880	1909.8	15.00	0.30	
GSM 1 Tx slot	23.70	23.85	23.76	24.00	14.70	14.85	14.76	15.00		
GPRS 1 Tx slot	23.55	23.74	23.67	24.00	14.55	14.74	14.67	15.00		
GPRS 2 Tx slots	21.45	21.76	21.57	22.00	15.45	15.76	15.57	16.00		
GPRS 3 Tx slots	19.90	19.86	19.89	20.00	15.64	15.60	15.63	15.74		
GPRS 4 Tx slots	17.96	18.08	18.03	18.50	14.96	15.08	15.03	15.50		
EDGE 1 Tx slot	20.12	20.14	19.87	21.00	11.12	11.14	10.87	12.00		
EDGE 2 Tx slots	18.53	18.97	18.83	19.00	12.53	12.97	12.83	13.00		
EDGE 3 Tx slots	16.45	16.54	16.50	17.00	12.19	12.28	12.24	12.74		
EDGE 4 Tx slots	15.07	15.05	15.18	16.00	12.07	12.05	12.18	13.00		
Mode		Max.	23.85			Max.	15.76			
Attenuator	Cable Loss : 0.8									

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel	9262	9400	9538	1312		1413	1513	4132		4182	4233		
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	RMC 12.2Kbps	13.38	13.26	13.31	14.00	14.48	13.85	14.12	15.00	16.86	16.56	16.65	17.50
3GPP Rel 6	HSDPA Subtest-1	13.00	12.86	12.37	14.00	13.97	13.69	13.74	14.50	16.17	16.06	15.99	17.00
3GPP Rel 6	HSDPA Subtest-2	13.01	12.78	12.39	14.00	13.75	13.87	13.83	14.50	15.59	15.49	15.69	17.00
3GPP Rel 6	HSDPA Subtest-3	11.99	11.94	12.09	13.50	12.95	12.95	11.83	14.00	15.44	15.26	15.39	16.50
3GPP Rel 6	HSDPA Subtest-4	11.36	11.41	10.33	13.50	13.86	14.15	13.73	14.00	15.38	15.65	15.50	16.50
3GPP Rel 8	DC-HSDPA Subtest-1	12.97	13.15	12.75	14.00	13.60	13.76	13.24	14.50	16.04	15.81	16.12	17.00
3GPP Rel 8	DC-HSDPA Subtest-2	12.50	12.83	12.25	14.00	12.89	13.06	12.18	14.50	15.00	15.25	15.12	17.00
3GPP Rel 8	DC-HSDPA Subtest-3	11.30	11.38	10.63	13.50	12.87	13.05	11.87	14.00	15.44	15.47	15.19	16.50
3GPP Rel 8	DC-HSDPA Subtest-4	11.90	12.06	10.81	13.50	13.09	13.16	12.80	14.00	15.49	15.87	15.80	16.50
3GPP Rel 6	HSUPA Subtest-1	13.10	13.03	12.53	14.00	11.76	11.99	11.94	14.50	15.79	15.83	16.25	17.00
3GPP Rel 6	HSUPA Subtest-2	11.09	11.08	11.13	12.00	12.77	13.24	12.62	12.50	14.30	14.30	14.44	15.00
3GPP Rel 6	HSUPA Subtest-3	12.03	11.98	11.47	13.00	12.02	11.70	11.89	13.50	15.06	14.64	15.13	16.00
3GPP Rel 6	HSUPA Subtest-4	11.29	11.16	11.13	12.00	11.95	11.89	11.39	12.50	14.37	14.32	13.94	15.00
3GPP Rel 6	HSUPA Subtest-5	12.93	12.67	12.36	14.00	13.56	13.81	13.09	14.50	15.66	16.14	15.74	17.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	11.13	11.18	10.42	11.50	11.64	11.45	10.84	12.00	13.95	14.21	13.64	14.50
Attenuator		Cable Loss 0.8				Cable Loss 0.8				Cable Loss 0.6			
Mode		Max.	13.38			Max.	14.48			Max.	16.86		



3	QPSK	15	0	13.47	13.56	13.41	
3	16QAM	1	0	14.21	14.24	14.16	
3	16QAM	1	8	13.96	14.18	13.92	
3	16QAM	1	14	13.84	14.15	13.89	
3	16QAM	8	0	13.31	13.32	13.33	
3	16QAM	8	4	13.20	13.09	12.96	
3	16QAM	8	7	12.98	13.14	12.95	
3	16QAM	15	0	13.03	13.11	13.05	
3	64QAM	1	0	12.93	13.07	13.09	
3	64QAM	1	8	13.06	12.98	13.15	
3	64QAM	1	14	12.88	12.74	13.19	
3	64QAM	8	0	13.07	13.00	12.94	
3	64QAM	8	4	13.21	13.01	12.80	
3	64QAM	8	7	12.97	13.05	12.88	
3	64QAM	15	0	13.28	12.95	12.96	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.88	15.04	15.08	16
1.4	QPSK	1	3	14.92	15.15	15.02	
1.4	QPSK	1	5	15.05	15.06	14.90	
1.4	QPSK	3	0	14.50	14.88	14.82	
1.4	QPSK	3	1	14.42	14.67	14.56	
1.4	QPSK	3	3	14.75	14.56	14.66	
1.4	QPSK	6	0	13.99	14.13	14.23	15
1.4	16QAM	1	0	13.83	14.21	13.92	15
1.4	16QAM	1	3	13.84	13.72	13.72	
1.4	16QAM	1	5	13.81	13.82	13.82	
1.4	16QAM	3	0	13.20	13.23	12.94	
1.4	16QAM	3	1	13.29	13.03	13.34	
1.4	16QAM	3	3	13.00	12.86	13.14	
1.4	16QAM	6	0	13.03	13.41	13.01	14
1.4	64QAM	1	0	13.11	13.05	13.15	14
1.4	64QAM	1	3	12.88	12.93	13.24	
1.4	64QAM	1	5	13.29	13.22	13.18	
1.4	64QAM	3	0	13.14	12.91	12.97	
1.4	64QAM	3	1	12.91	13.17	13.26	
1.4	64QAM	3	3	13.12	13.25	13.29	
1.4	64QAM	6	0	13.01	13.04	13.14	14

3	QPSK	15	0	13.49	13.44	13.52	
3	16QAM	1	0	13.71	13.79	12.75	
3	16QAM	1	8	13.92	13.62	12.40	
3	16QAM	1	14	13.93	13.85	13.52	
3	16QAM	8	0	12.83	12.90	12.85	
3	16QAM	8	4	12.81	12.69	12.86	
3	16QAM	8	7	12.99	12.70	12.78	
3	16QAM	15	0	12.50	12.89	12.86	
3	64QAM	1	0	12.68	12.79	12.76	
3	64QAM	1	8	13.11	12.91	12.87	
3	64QAM	1	14	12.85	12.91	12.71	
3	64QAM	8	0	12.88	12.83	12.76	
3	64QAM	8	4	12.61	12.77	12.67	
3	64QAM	8	7	12.80	12.85	12.96	
3	64QAM	15	0	12.70	12.72	12.66	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.78	14.77	13.60	15.5
1.4	QPSK	1	3	14.69	14.67	13.60	
1.4	QPSK	1	5	14.63	14.61	13.36	
1.4	QPSK	3	0	13.83	13.74	13.38	
1.4	QPSK	3	1	14.01	13.76	13.45	
1.4	QPSK	3	3	13.36	13.94	13.65	
1.4	QPSK	6	0	13.72	13.64	13.46	14.5
1.4	16QAM	1	0	13.98	13.84	12.72	14.5
1.4	16QAM	1	3	13.53	13.81	12.52	
1.4	16QAM	1	5	13.72	13.63	13.87	
1.4	16QAM	3	0	12.95	13.10	12.71	
1.4	16QAM	3	1	12.78	12.83	12.62	
1.4	16QAM	3	3	12.83	12.84	12.79	
1.4	16QAM	6	0	12.52	12.61	12.19	13.5
1.4	64QAM	1	0	12.81	12.87	12.88	13.5
1.4	64QAM	1	3	12.88	12.99	13.08	
1.4	64QAM	1	5	12.80	12.93	12.48	
1.4	64QAM	3	0	12.75	12.98	12.62	
1.4	64QAM	3	1	12.55	12.74	12.90	
1.4	64QAM	3	3	12.99	12.80	12.77	
1.4	64QAM	6	0	12.92	12.86	12.46	13.5







1.4	QPSK	6	0	17.15	16.78	16.98	17.5
1.4	16QAM	1	0	16.82	16.89	16.96	17.5
1.4	16QAM	1	3	16.92	16.83	16.85	
1.4	16QAM	1	5	17.13	16.88	16.80	
1.4	16QAM	3	0	16.12	16.20	15.99	
1.4	16QAM	3	1	16.27	15.88	16.18	
1.4	16QAM	3	3	16.08	15.79	16.10	
1.4	16QAM	6	0	15.82	15.94	15.79	17
1.4	64QAM	1	0	16.43	16.39	16.45	17
1.4	64QAM	1	3	16.58	16.42	16.28	
1.4	64QAM	1	5	16.26	16.45	16.23	
1.4	64QAM	3	0	15.91	15.85	16.06	
1.4	64QAM	3	1	16.19	16.06	16.23	
1.4	64QAM	3	3	16.00	15.81	15.76	
1.4	64QAM	6	0	15.85	15.98	15.92	17



## Band 66 (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	14.10	14.19	14.16	15
20	QPSK	1	49	13.87	13.84	13.78	
20	QPSK	1	99	13.82	13.64	13.70	
20	QPSK	50	0	12.98	12.99	12.85	14
20	QPSK	50	24	12.93	12.89	12.93	
20	QPSK	50	50	12.93	12.77	12.77	
20	QPSK	100	0	12.89	12.95	12.77	14
20	16QAM	1	0	12.92	12.83	12.85	
20	16QAM	1	49	12.84	12.88	12.88	
20	16QAM	1	99	12.93	12.78	12.78	13
20	16QAM	50	0	12.11	12.04	12.09	
20	16QAM	50	24	11.96	12.04	12.00	
20	16QAM	50	50	12.00	11.97	12.01	13.5
20	16QAM	100	0	11.92	11.92	11.98	
20	64QAM	1	0	12.84	12.87	12.90	
20	64QAM	1	49	12.89	12.84	12.88	12.5
20	64QAM	1	99	12.73	12.72	12.81	
20	64QAM	50	0	11.82	11.77	11.95	
20	64QAM	50	24	11.85	11.79	11.84	12.5
20	64QAM	50	50	11.74	11.79	11.83	
20	64QAM	100	0	11.81	11.82	11.72	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.15	14.10	14.15	15
15	QPSK	1	37	13.86	14.00	13.65	
15	QPSK	1	74	13.96	13.81	13.73	
15	QPSK	36	0	13.09	13.08	12.67	14
15	QPSK	36	20	13.09	12.69	12.87	
15	QPSK	36	39	12.73	12.81	12.88	
15	QPSK	75	0	12.87	13.08	12.64	14
15	16QAM	1	0	13.07	13.03	12.91	
15	16QAM	1	37	12.96	13.07	12.72	
15	16QAM	1	74	13.04	12.73	12.68	13
15	16QAM	36	0	11.92	11.84	12.13	
15	16QAM	36	20	12.06	12.05	11.92	
15	16QAM	36	39	12.08	11.83	11.89	13.5
15	16QAM	75	0	11.88	11.98	11.78	
15	64QAM	1	0	12.83	12.80	12.91	
15	64QAM	1	37	12.92	12.92	12.83	12.5
15	64QAM	1	74	12.58	12.84	12.70	
15	64QAM	36	0	11.83	11.70	11.83	
15	64QAM	36	20	11.85	11.69	11.82	12.5
15	64QAM	36	39	11.70	11.76	11.93	
15	64QAM	75	0	11.71	12.01	11.79	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.08	14.12	14.08	15
10	QPSK	1	25	13.84	13.66	13.84	
10	QPSK	1	49	13.84	13.61	13.76	
10	QPSK	25	0	13.16	12.82	12.89	14
10	QPSK	25	12	13.01	13.04	12.81	
10	QPSK	25	25	13.02	12.62	12.73	
10	QPSK	50	0	12.98	12.80	12.77	14
10	16QAM	1	0	13.12	12.79	12.77	
10	16QAM	1	25	12.77	12.85	12.72	
10	16QAM	1	49	13.10	12.67	12.72	13
10	16QAM	25	0	12.17	11.91	12.22	
10	16QAM	25	12	11.95	11.93	11.97	
10	16QAM	25	25	12.14	11.89	12.17	13.5
10	16QAM	50	0	12.02	11.76	11.89	
10	64QAM	1	0	12.95	13.00	12.70	
10	64QAM	1	25	12.71	12.70	12.86	12.5
10	64QAM	1	49	12.90	12.54	12.93	
10	64QAM	25	0	11.82	11.68	11.83	
10	64QAM	25	12	11.66	11.76	11.92	12.5
10	64QAM	25	25	11.85	11.67	11.66	
10	64QAM	50	0	12.01	11.80	11.55	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	13.97	14.14	14.04	15
5	QPSK	1	12	13.78	13.67	13.67	
5	QPSK	1	24	13.99	13.82	13.72	
5	QPSK	12	0	12.97	13.13	12.99	14
5	QPSK	12	7	12.78	13.04	13.05	
5	QPSK	12	13	12.91	12.60	12.83	
5	QPSK	25	0	12.80	12.92	12.81	14
5	16QAM	1	0	12.72	12.70	12.78	
5	16QAM	1	12	12.81	12.78	13.07	
5	16QAM	1	24	12.84	12.81	12.85	13
5	16QAM	12	0	12.14	12.13	12.07	
5	16QAM	12	7	11.82	12.04	12.08	
5	16QAM	12	13	12.02	11.81	11.84	13.5
5	16QAM	25	0	11.89	12.03	12.15	
5	64QAM	1	0	12.82	13.06	13.10	
5	64QAM	1	12	12.91	12.94	12.92	12.5
5	64QAM	1	24	12.83	12.72	12.86	
5	64QAM	12	0	11.66	11.70	12.10	
5	64QAM	12	7	11.69	11.85	11.80	12.5
5	64QAM	12	13	11.93	11.91	11.72	
5	64QAM	25	0	11.61	11.80	11.92	
Channel				131997	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.03	14.08	14.04	15
3	QPSK	1	8	13.69	13.67	13.62	
3	QPSK	1	14	14.02	13.82	13.58	
3	QPSK	8	0	12.86	12.96	12.89	14
3	QPSK	8	4	12.74	12.78	12.96	
3	QPSK	8	7	13.02	12.68	12.76	

3	QPSK	15	0	12.78	12.88	12.58	14
3	16QAM	1	0	12.80	13.00	12.72	
3	16QAM	1	8	13.03	12.69	12.73	
3	16QAM	1	14	13.11	12.80	12.69	13
3	16QAM	8	0	12.23	12.21	11.91	
3	16QAM	8	4	11.77	12.17	12.05	
3	16QAM	8	7	12.04	12.14	12.01	13.5
3	16QAM	15	0	11.87	11.98	11.88	
3	64QAM	1	0	12.79	12.90	12.75	
3	64QAM	1	8	13.05	12.79	12.94	12.5
3	64QAM	1	14	12.80	12.83	13.01	
3	64QAM	8	0	11.93	11.92	11.75	
3	64QAM	8	4	11.65	11.82	11.78	12.5
3	64QAM	8	7	11.60	11.80	11.75	
3	64QAM	15	0	11.94	11.97	11.75	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.07	14.09	14.04	15
1.4	QPSK	1	3	13.72	13.70	13.93	
1.4	QPSK	1	5	13.96	13.62	13.52	
1.4	QPSK	3	0	13.00	13.02	12.73	
1.4	QPSK	3	1	12.94	12.85	13.11	
1.4	QPSK	3	3	13.05	12.76	12.84	
1.4	QPSK	6	0	12.82	13.02	12.63	14
1.4	16QAM	1	0	13.02	13.02	12.98	14
1.4	16QAM	1	3	12.75	12.98	12.98	
1.4	16QAM	1	5	12.86	12.91	12.75	
1.4	16QAM	3	0	12.22	12.07	11.89	
1.4	16QAM	3	1	11.77	11.85	11.82	
1.4	16QAM	3	3	11.80	12.12	12.21	
1.4	16QAM	6	0	12.08	11.92	11.87	13
1.4	64QAM	1	0	12.99	12.94	13.07	13.5
1.4	64QAM	1	3	13.03	12.98	12.85	
1.4	64QAM	1	5	12.78	12.81	12.72	
1.4	64QAM	3	0	11.70	11.62	11.86	
1.4	64QAM	3	1	11.88	11.91	11.76	
1.4	64QAM	3	3	11.63	11.78	11.87	
1.4	64QAM	6	0	11.74	11.86	11.55	12.5



**Band 40 (2.3G Band-2) (dBm)  
Part 27D-2 2350MHz ~ 2360MHz**

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	18.74			19.5
10	QPSK	1	25	18.51			
10	QPSK	1	49	18.39			
10	QPSK	25	0	17.64			18.5
10	QPSK	25	12	17.65			
10	QPSK	25	25	17.54			
10	QPSK	50	0	17.58			
10	16QAM	1	0	17.79			
10	16QAM	1	25	17.78			18.5
10	16QAM	1	49	17.71			
10	16QAM	25	0	16.86			
10	16QAM	25	12	16.86			17.5
10	16QAM	25	25	16.85			
10	16QAM	50	0	16.88			
10	64QAM	1	0	17.73			
10	64QAM	1	25	17.74			
10	64QAM	1	49	17.71			18.5
10	64QAM	25	0	16.87			
10	64QAM	25	12	16.88			
10	64QAM	25	25	16.78			17.5
10	64QAM	50	0	16.89			
Channel				39175	39200	39225	
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	18.57	18.63	18.62	19.5
5	QPSK	1	12	18.48	18.42	18.60	
5	QPSK	1	24	18.47	18.43	18.49	
5	QPSK	12	0	17.58	17.64	17.67	18.5
5	QPSK	12	7	17.59	17.66	17.65	
5	QPSK	12	13	17.51	17.54	17.56	
5	QPSK	25	0	17.45	17.49	17.51	
5	16QAM	1	0	17.63	17.72	17.80	
5	16QAM	1	12	17.69	17.76	17.62	18.5
5	16QAM	1	24	17.51	17.65	17.58	
5	16QAM	12	0	16.81	16.84	16.87	
5	16QAM	12	7	16.74	16.92	16.82	17.5
5	16QAM	12	13	16.71	16.98	16.80	
5	16QAM	25	0	16.77	16.90	16.74	
5	64QAM	1	0	17.74	17.80	17.85	
5	64QAM	1	12	17.57	17.82	17.64	
5	64QAM	1	24	17.64	17.69	17.64	18.5
5	64QAM	12	0	16.88	16.88	16.93	
5	64QAM	12	7	16.78	16.85	16.91	
5	64QAM	12	13	16.76	16.90	16.83	
5	64QAM	25	0	16.72	16.90	16.66	

## 2.4GHz WLAN ANT 1

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	7.11	7.50	3.00	95.90
		CH 7	2442	5.81	6.50	3.00	
		CH 13	2472	6.83	7.50	3.00	
	802.11g 6Mbps	CH 1	2412	<b>9.23</b>	10.00	9.00	76.71
		CH 7	2442	8.66	9.50	9.00	
		CH 13	2472	8.96	9.50	9.00	
	802.11n-HT20 MCS0	CH 1	2412	9.10	9.50	11.00	67.68
		CH 7	2442	9.20	10.00	11.00	
		CH 13	2472	9.22	10.00	11.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	5.58	4.72	4.60
	CH 39	2441	5.01	4.00	4.10
	CH 78	2480	4.80	3.90	3.76
Tune-up Limit			6	5.5	5
Duty Cycle %			77.29	76.89	76.99
Power Setting			4	4	4

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	0.51
	CH 19	2440	0.14
	CH 39	2480	-0.18
Tune-up Limit			1
Duty Cycle %			83.71
Power Setting			4