



No SAR justification for FCC ID : YPTTELCBGM01

Maximum number of times per day

For serious patient it may examine 6 times blood glucose per day (before and after each meal for serious blood glucose patient and each test is typically 2 hours apart. However, the most of users may use it only 2 to 3 times per week for monitoring glucose level purpose

Actual Tx-on time for transmitting

The actual Tx-on time for transmitting is less than 0.3 sec (0.15sec for network setup and 0.15 sec for uploading 1KB data to server). As analyzed above, the RF circuit is in passive network receiving mode for most of the time and uses only 0.3 sec maximum total for sending out the RF signal during each test.

The meter is design to try 3 times maximum for GPRS/EDGE network connection. Since each GPRS/EDGE network setup will take 8 to 16 sec typically depends on time and location. The loop waiting time for each try is default to 20 sec. If connection to GPRS/EDGE network is not successful after 3 tries, then the meter will set network not available flag and stop trying. In this case the test data will be saved to built-in memory and user can re-try upload at later time.

As explain above, the old test data (file size is 1KB which includes Glucose level, test time/date and condition) are saved in memory and user can upload them one by one manually when network is available later if necessary. Meter doesn't support auto combing or uploading data when new test is in progress.

In short, the Tx-on time for the meter is typically
0.3 sec per 2 hours for serious patient
0.3 sec per 48 hours for typical user

Duty factor

Worst case
= 16 seconds plus 0.3 out of 2 x 60 x 60 seconds
= 16.3 / 7200
= 0.0023



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Source-base time average conducted power table

Mode	Frequency (MHz)	Conducted power (dBm)	Conducted power (mW)	Source-based time-averaged conducted output power (mW)	SAR threshold (mW)
GPRS 850 (Time slot 1)	824.2	32.02	1592.21	3.66	72.80
	836.6	31.94	1563.15	3.60	71.72
	848.8	31.87	1538.15	3.54	70.69
GPRS 850 (Time slot 2)	824.2	32.01	1588.55	3.65	72.80
	836.6	31.92	1555.97	3.58	71.72
	848.8	31.83	1524.05	3.51	70.69
GRPS1900 (Time slot 1)	1850.2	29.57	905.73	2.08	32.43
	1880	29.63	918.33	2.11	31.91
	1909.8	29.64	920.45	2.12	31.42
GRPS1900 (Time slot 2)	1850.2	29.54	899.50	2.07	32.43
	1880	29.61	914.11	2.10	31.91
	1909.8	29.59	909.91	2.09	31.42
EGPRS 850 (Time slot 1)	824.2	26.82	480.84	1.11	72.80
	836.6	26.81	479.73	1.10	71.72
	848.8	26.95	495.45	1.14	70.69
EGPRS 850 (Time slot 2)	824.2	26.64	461.32	1.06	72.80
	836.6	26.61	458.14	1.05	71.72
	848.8	27.26	532.11	1.22	70.69
EGRPS1900 (Time slot 1)	1850.2	26.05	402.72	0.93	32.43
	1880	25.84	383.71	0.88	31.91
	1909.8	25.74	374.97	0.86	31.42
EGRPS1900 (Time slot 2)	1850.2	25.91	389.94	0.90	32.43
	1880	25.82	381.94	0.88	31.91
	1909.8	25.72	373.25	0.86	31.42

**Source-base time average EIRP table**

Mode	Frequency (MHz)	Conducted power (dBm)	EIRP (dBm)	EIRP (mW)	Source-based time-averaged EIRP (mW)	SAR threshold (mW)
GPRS 850 (Time slot 1)	824.2	32.02	28.02	633.87	1.46	72.80
	836.6	31.94	27.94	622.30	1.43	71.72
	848.8	31.87	27.87	612.35	1.41	70.69
GPRS 850 (Time slot 2)	824.2	32.01	28.01	632.41	1.45	72.80
	836.6	31.92	27.92	619.44	1.42	71.72
	848.8	31.83	27.83	606.74	1.40	70.69
GRPS1900 (Time slot 1)	1850.2	29.57	25.57	360.58	0.83	32.43
	1880	29.63	25.63	365.59	0.84	31.91
	1909.8	29.64	25.64	366.44	0.84	31.42
GRPS1900 (Time slot 2)	1850.2	29.54	25.54	358.10	0.82	32.43
	1880	29.61	25.61	363.92	0.84	31.91
	1909.8	29.59	25.59	362.24	0.83	31.42
EGPRS 850 (Time slot 1)	824.2	26.82	22.82	191.43	0.44	72.80
	836.6	26.81	22.81	190.99	0.44	71.72
	848.8	26.95	22.95	197.24	0.45	70.69
EGPRS 850 (Time slot 2)	824.2	26.64	22.64	183.65	0.42	72.80
	836.6	26.61	22.61	182.39	0.42	71.72
	848.8	27.26	23.26	211.84	0.49	70.69
EGRPS1900 (Time slot 1)	1850.2	26.05	22.05	160.32	0.37	32.43
	1880	25.84	21.84	152.76	0.35	31.91
	1909.8	25.74	21.74	149.28	0.34	31.42
EGRPS1900 (Time slot 2)	1850.2	25.91	21.91	155.24	0.36	32.43
	1880	25.82	21.82	152.05	0.35	31.91
	1909.8	25.72	21.72	148.59	0.34	31.42

Note: Antenna gain of 850 and 1900MHz band is -4dBi

Conclusion

Since Source-base time average power is below SAR exempt power level, the SAR evaluation is not required.