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FCC/SAR Hotspot Power Back Off implementation in PY7PM-0090

This document is regarding the power back off implementation in PY7PM-0090 during Wifi Hotspot mode for SAR measurement.

When hotspot mode is activated, an automatic RF power reduction is activated and reduces the maximum output RF power level, please refer to below table for detailed info. When Wifi Hotspot mode is deactivated, the RF output power levels return to their normal RF power level.

When hotspot mode is activated, following events possibly happen:

1. A call established (incoming call or outgoing call);
RF output power level will return to normal RF power level.
2. The network is under low RSSI, or network power control;
RF power automatic reduction will be activated
3. The network setting changes;
RF power automatic reduction is also activated and then the maximum output RF power Level decrease simultaneously;

Power Reduction Values

Band	Max value of Power reduction
GSM850 Voice	3.5dB
(E)GRPS 8PSK	0dB
(E)GRPS 850 1 Slot	3.5dB
(E)GRPS 850 2 Slot	3.5dB
(E)GRPS 850 3 Slot	3.5dB
(E)GRPS 850 4 slot	3.2dB
PCS1900 Voice	3.5dB
(E)GRPS 8PSK	0dB
(E)GRPS 1900 1 Slot	3.4dB
(E)GRPS 1900 2 Slot	3.4dB
(E)GRPS 1900 3 Slot	3.4dB
(E)GRPS 1900 4 slot	3.4dB