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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDP56KD1)

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Summary of FCC request for additional information

There was a request for additional information regarding Motorola's SAR Test Report for Motorola portable cellular phone (FCC ID IHDP56KD1). The requested information is addressed below in the same numbering sequence received.

Q1. Thank you for your email. Regarding your response to question #3, FCC procedure requires that, based on the DTS output power data on p.9/90 of the revised SAR report, the following channel / data rates be tested for SAR:

Ch 1: 1 Mbps, 11 Mbps
Ch 6: 1 Mbps, 5.5 Mbps, 11 Mbps
Ch 11: 1 Mbps, 5.5 Mbps, 11 Mbps

All of these are in 802.11b mode. Please provide this additional SAR data.

Response:

R1. 802.11b Wi-Fi test results are provided in tables S1 through S6 below. Additional testing per Q1 above is provided for the worst-case SAR position each from among head-adjacent and body-worn conditions.

Wi-Fi 802.11b Mode, 2450 Mhz Band, Left Head Cheek Position								
Data Rate	Description	Conducted Output Power (dBm)	Temp (°C)	Drift (dB)	10 g SAR value		1 g SAR value	
					Measured (W/kg)	Extrapolated (W/kg)	Measured (W/kg)	Extrapolated (W/kg)
1 Mbps	Channel 1	19.76						
	Channel 6	20.18	19.5	0.062	0.132	0.13	0.247	0.25
	Channel 11	21.06						
5.5 Mbps	Channel 1	19.69						
	Channel 6	22.09						
	Channel 11	23.08						
11 Mbps	Channel 1	23.04	19.2	-0.006	0.088	0.09	0.155	0.16
	Channel 6	23.62	19.6	0.024	0.112	0.11	0.206	0.21
	Channel 11	23.11	19.4	-0.139	0.072	0.07	0.132	0.14

Table S1: SAR measurement results at the highest possible output power, measured in a head cheek position against the ICNIRP and ANSI SAR Limit.

Wi-Fi 802.11b Mode, 2450 Mhz Band, Right Head Cheek Position								
Data Rate	Description	Conducted Output Power (dBm)	Temp (°C)	Drift (dB)	10 g SAR value		1 g SAR value	
					Measured (W/kg)	Extrapolated (W/kg)	Measured (W/kg)	Extrapolated (W/kg)
1 Mbps	Channel 1	19.76						
	Channel 6	20.18	20.3	-0.067	0.152	0.15	0.297	0.30
	Channel 11	21.06						
5.5 Mbps	Channel 1	19.69						
	Channel 6	22.09						
	Channel 11	23.08						
11 Mbps	Channel 1	23.04	19.2	0.003	0.117	0.12	0.226	0.23
	Channel 6	23.62	19.2	-0.039	0.149	0.15	0.298	0.30
	Channel 11	23.11	19.2	-0.128	0.086	0.09	0.167	0.17

Table S2: SAR measurement results at the highest possible output power, measured in a head cheek position against the ICNIRP and ANSI SAR Limit.

Wi-Fi 802.11b Mode, 2450 Mhz Band, Left Head 15° Tilt Position								
Data Rate	Description	Conducted Output Power (dBm)	Temp (°C)	Drift (dB)	10 g SAR value		1 g SAR value	
					Measured (W/kg)	Extrapolated (W/kg)	Measured (W/kg)	Extrapolated (W/kg)
1 Mbps	Channel 1	19.76						
	Channel 6	20.18	19.8	0.056	0.196	0.20	0.368	0.37
	Channel 11	21.06						
5.5 Mbps	Channel 1	19.69						
	Channel 6	22.09						
	Channel 11	23.08						
11 Mbps	Channel 1	23.04	19.8	-0.013	0.138	0.14	0.256	0.26
	Channel 6	23.62	19.6	-0.057	0.176	0.18	0.333	0.34
	Channel 11	23.11	19.4	-0.064	0.112	0.11	0.215	0.22

Table S3: SAR measurement results at the highest possible output power, measured in a head 15° Tilt position against the ICNIRP and ANSI SAR Limit.

Wi-Fi 802.11b Mode, 2450 Mhz Band, Right Head 15° Tilt Position								
Data Rate	Description	Conducted Output Power (dBm)	Temp (°C)	Drift (dB)	10 g SAR value		1 g SAR value	
					Measured (W/kg)	Extrapolated (W/kg)	Measured (W/kg)	Extrapolated (W/kg)
1 Mbps	Channel 1	19.76	19.4	-0.136	0.126	0.13	0.240	0.25
	Channel 6	20.18	20.0	-0.007	0.206	0.21	0.414	0.41
	Channel 11	21.06	19.4	0.206	0.089	0.09	0.170	0.17
5.5 Mbps	Channel 1	19.69						
	Channel 6	22.09	19.4	0.086	0.182	0.18	0.365	0.37
	Channel 11	23.08	19.4	0.119	0.102	0.10	0.196	0.20
11 Mbps	Channel 1	23.04	19.2	-0.187	0.141	0.15	0.278	0.29
	Channel 6	23.62	19.2	0.027	0.192	0.19	0.389	0.39
	Channel 11	23.11	19.2	-0.043	0.113	0.11	0.223	0.23

Table S4: SAR measurement results at the highest possible output power, measured in a head 15° Tilt position against the ICNIRP and ANSI SAR Limit.

Wi-Fi 802.11b Mode, 2450 Mhz Band, Body-Worn; Front of Phone 25 mm from Phantom								
Data Rate	Description	Conducted Output Power (dBm)	Temp (°C)	Drift (dB)	10 g SAR value		1 g SAR value	
					Measured (W/kg)	Extrapolated (W/kg)	Measured (W/kg)	Extrapolated (W/kg)
1 Mbps	Channel 1	19.76						
	Channel 6	20.18	20.3	0.056	0.022	0.02	0.036	0.04
	Channel 11	21.06						
5.5 Mbps	Channel 1	19.69						
	Channel 6	22.09						
	Channel 11	23.08						
11 Mbps	Channel 1	23.04	18.8	0.069	0.013	0.01	0.021	0.02
	Channel 6	23.62	18.8	-0.118	0.006	0.01	0.014	0.01
	Channel 11	23.11	18.6	-0.046	0.006	0.01	0.013	0.01

Table S5: SAR measurement results at the highest possible output power, measured in a body-worn position against the ICNIRP and ANSI SAR Limit.

Wi-Fi 802.11b Mode, 2450 Mhz Band, Body-Worn; Back of Phone 25 mm from Phantom								
Data Rate	Description	Conducted Output Power (dBm)	Temp (°C)	Drift (dB)	10 g SAR value		1 g SAR value	
					Measured (W/kg)	Extrapolated (W/kg)	Measured (W/kg)	Extrapolated (W/kg)
1 Mbps	Channel 1	19.76	19.8	-0.145	0.031	0.03	0.050	0.05
	Channel 6	20.18	20.4	-0.069	0.055	0.06	0.091	0.09
	Channel 11	21.06	19.8	-0.138	0.023	0.02	0.038	0.04
5.5 Mbps	Channel 1	19.69						
	Channel 6	22.09	19.8	0.215	0.042	0.04	0.070	0.07
	Channel 11	23.08	19.8	0.060	0.026	0.03	0.043	0.04
11 Mbps	Channel 1	23.04	18.8	0.128	0.026	0.03	0.044	0.04
	Channel 6	23.62	18.8	0.049	0.035	0.03	0.059	0.06
	Channel 11	23.11	18.6	0.119	0.023	0.02	0.040	0.04

Table S6: SAR measurement results at the highest possible output power, measured in a body-worn position against the ICNIRP and ANSI SAR Limit.