

11.4 Wi-Fi and BT Measurement result

The maximum power of BT is 6dBm and the maximum tune up is 8dBm.

The average conducted power for Wi-Fi is as following:

Table 11-18 WLAN2450 #1

WLAN2450 #1							
Band	Mode	Channel	Frequency	Data Rate	Tune-up	Measured	
WLAN 2.4G 20M	802.11b	11	2462 MHz	5.5Mbps	20.00	19.70	
		6	2437 MHz		20.50	20.29	
		1	2412 MHz		20.00	19.60	
		11	2462 MHz	2Mbps	/	/	
		6	2437 MHz		20.50	19.93	
		1	2412 MHz		/	/	
		11	2462 MHz	1Mbps	20.00	19.40	
		6	2437 MHz		20.50	19.91	
		1	2412 MHz		20.00	19.36	
		11	2462 MHz	11Mbps	/	/	
		6	2437 MHz		20.50	19.80	
		1	2412 MHz		/	/	
	802.11g	802.11g	11	2462 MHz	6Mbps	19.50	18.72
			6	2437 MHz		19.50	19.07
			1	2412 MHz		19.50	18.78
			11	2462 MHz	9Mbps	/	/
			6	2437 MHz		19.00	18.85
			1	2412 MHz		/	/
			11	2462 MHz	12Mbps	/	/
			6	2437 MHz		19.00	18.14
			1	2412 MHz		/	/
			11	2462 MHz	18Mbps	/	/
			6	2437 MHz		19.00	18.20
			1	2412 MHz		/	/
		11	2462 MHz	24Mbps	/	/	
		6	2437 MHz		18.00	16.93	
		1	2412 MHz		/	/	
		11	2462 MHz	36Mbps	/	/	
		6	2437 MHz		18.00	16.90	
		1	2412 MHz		/	/	
		11	2462 MHz	48Mbps	/	/	
		6	2437 MHz		18.00	16.92	
		1	2412 MHz		/	/	
		11	2462 MHz	54Mbps	/	/	
		6	2437 MHz		18.00	17.11	
		1	2412 MHz		/	/	
	802.11n 20M	802.11n 20M	11	2462 MHz	MCS0	19.50	18.64
			6	2437 MHz		19.50	18.79
			1	2412 MHz		19.50	18.51
			11	2462 MHz	MCS1	/	/
			6	2437 MHz		19.00	18.31
			1	2412 MHz		/	/
11			2462 MHz	MCS2	/	/	
6			2437 MHz		19.00	18.45	
1			2412 MHz		/	/	
11			2462 MHz	MCS3	/	/	
6			2437 MHz		18.00	16.97	
1			2412 MHz		/	/	
11			2462 MHz	MCS4	/	/	
6			2437 MHz		18.00	16.94	
1			2412 MHz		/	/	
11			2462 MHz	MCS5	/	/	
6			2437 MHz		18.00	16.93	
1			2412 MHz		/	/	
11			2462 MHz	MCS6	/	/	
6			2437 MHz		18.00	16.49	
1			2412 MHz		/	/	
11	2462 MHz	MCS7	/	/			
6	2437 MHz		17.00	15.89			



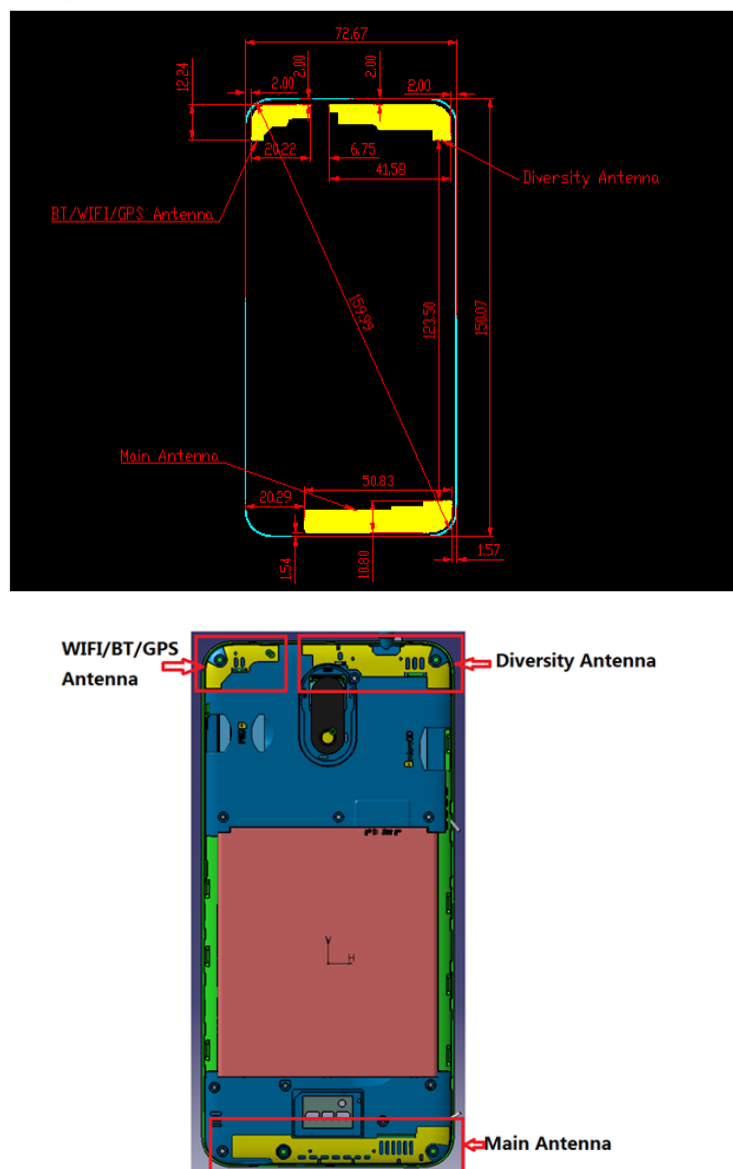
		1	2412 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS0	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS1	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS2	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS3	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS4	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS5	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS6	/	/
		3	2422 MHz		/	/
		9	2452 MHz		/	/
		6	2437 MHz	MCS7	/	/
		3	2422 MHz		/	/
WLAN 2.4G 40M	802.11n 40M					

12 Simultaneous TX SAR Considerations

12.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

12.2 Transmit Antenna Separation Distances



Picture 12.1 Antenna Locations

12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v02r01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
Main antenna	Yes	Yes	Yes	Yes	No	Yes
WiFi	Yes	Yes	No	Yes	Yes	No

12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Table 12.1: Standalone SAR test exclusion considerations

Band/Mode	F(GHz)	Position	SAR test exclusion threshold (mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.441	Head	9.6	8	6.31	Yes
		Body	19.2	8	6.31	Yes
2.4GHz WLAN 802.11 b	2.45	Head	9.58	20.5	112.20	No
		Body	19.17	20.5	112.20	No

13 Evaluation of Simultaneous

Table 13.1: The sum of reported SAR values for main antenna and WiFi

	Position	Main antenna	WLAN 2.4G	Sum	Distance (mm)	Ratio
Maximum reported SAR value for Head	Left hand, Touch cheek (WCDMA850)	0.54	1.28	1.82	67.81	0.04
	Left hand, Touch cheek (LTE Band5)	0.36	1.28	1.64	73.56	0.03
	Left hand, Touch cheek (LTE Band14)	0.42	1.28	1.70	73.02	0.03
Highest reported SAR value for Body 10mm	Rear (LTE Band4)	1.17	0.34	1.51	/	/
Highest reported SAR value for Body 10mm	Rear (LTE Band4)	1.20	0.34 (10mm)	1.54	/	/

According to the KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Table 13.2: The sum of reported SAR values for main antenna and BT

	Position	Main antenna	BT	Sum
Maximum reported SAR value for Head	Left hand, Touch cheek (WCDMA 850)	0.54	0.26	0.80
Maximum reported SAR value for Body	Rear (LTE Band4)	1.20	0.13	1.33

[1] - Estimated SAR for Bluetooth (see the table 13.3)

Table 13.3: Estimated SAR for Bluetooth

Mode/Band	F (GHz)	Position	Distance (mm)	Upper limit of power *		Estimated d _{1g} (W/kg)
				dBm	mW	
Bluetooth	2.441	Head	5	8	6.31	0.26
Bluetooth	2.441	Body	10	8	6.31	0.13

* - Maximum possible output power declared by manufacturer

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;

where x = 7.5 for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

Conclusion:

According to the above tables, the sum of reported SAR values is < 1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.

The distance is 10/15 mm and just applied to the condition of body worn accessory.

It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 11.

Mode	Duty Cycle
Speech for GSM850/1900	1:8.3
GPRS&EGPRS for GSM850/1900	1:2
WCDMA<E	1:1

14.1 SAR results

Table 14-1 GSM850 #1 Head

GSM850 #1 Head								
Ambient Temperature:			22.5			Liquid Temperature: 22.3		
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz
GSM	Tune-up		33.20	33.20	33.20	Scaling factor*		
	Slot Average Power [dBm]		32.04	32.09	32.03	1.31	1.29	1.31
	Left Cheek	1g SAR	0.11	0.133	0.131	0.14	0.17	0.17
		10g SAR	0.084	0.101	0.099	0.11	0.13	0.13
		Deviation	-0.04	0.08	0.06	-0.04	0.08	0.06
	Left Tilt	1g SAR		0.093			0.12	
		10g SAR		0.072			0.09	
		Deviation		0.11			0.11	
	Right Cheek	1g SAR		0.121			0.16	
		10g SAR		0.09			0.12	
		Deviation		0.14			0.14	
	Right Tilt	1g SAR		0.085			0.11	
		10g SAR		0.065			0.08	
		Deviation		0.09			0.09	

Table 14-2 GSM850 #1 Body

GSM850 #1 Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	
GPRS 2 Txslots	Tune-up		32.00	32.00	32.00	Scaling factor*			
	Slot Average Power [dBm]		30.81	30.89	30.87	1.32	1.29	1.30	
	Front	1g SAR		0.281			0.36		
		10g SAR		0.213			0.27		
		Deviation		-0.11			-0.11		
	Rear	1g SAR	0.409	0.416	0.477	0.54	0.54	0.62	
		10g SAR	0.318	0.322	0.375	0.42	0.42	0.49	
		Deviation	0.08	-0.01	-0.01	0.08	-0.01	-0.01	
	Left edge	1g SAR		0.24			0.31		
		10g SAR		0.169			0.22		
		Deviation		-0.06			-0.06		
	Right edge	1g SAR		0.295			0.38		
		10g SAR		0.206			0.27		
		Deviation		0.07			0.07		
	Bottom edge	1g SAR		0.109			0.14		
10g SAR			0.07			0.09			
Deviation			-0.07			-0.07			
EGPRS GMSK 2 Txslots	Tune-up		32.00	32.00	32.00	Scaling factor*			
	Slot Average Power [dBm]		30.81	30.88	30.85	1.31	1.30	1.30	
	Rear	1g SAR			0.472			0.61	
		10g SAR			0.371			0.48	
		Deviation			0.04			0.04	

Table 14-3 PCS1900 #1 Head

PCS1900 #1 AP OFF Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2	
GSM	Tune-up		30.00	30.00	30.00	Scaling factor*			
	Slot Average Power [dBm]		28.38	28.37	28.21	1.45	1.45	1.51	
	Left Cheek	1g SAR		0.069			0.10		
		10g SAR		0.06			0.09		
		Deviation		-0.03			-0.03		
	Left Tilt	1g SAR		<0.01			<0.01		
		10g SAR		<0.01			<0.01		
		Deviation		0.03			0.03		
	Right Cheek	1g SAR	0.131	0.148	0.124	0.19	0.22	0.19	
		10g SAR	0.091	0.095	0.086	0.13	0.14	0.13	
		Deviation	-0.07	0.09	0.08	-0.07	0.09	0.08	
	Right Tilt	1g SAR		<0.01			<0.01		
		10g SAR		<0.01			<0.01		
		Deviation		0.11			0.11		

Table 14-4 PCS1900 #1 AP OFF Body

PCS1900 #1 AP OFF Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2	
GPRS 2 Txslots	Tune-up		28.00	28.00	28.00	Scaling factor*			
	Slot Average Power [dBm]		27.20	26.97	26.81	1.20	1.27	1.32	
	Front 15mm	1g SAR		0.423			0.54		
		10g SAR		0.254			0.32		
		Deviation		0.03			0.03		
	Rear 15mm	1g SAR	0.687	0.651	0.663	0.83	0.83	0.87	
		10g SAR	0.391	0.384	0.378	0.47	0.49	0.50	
Deviation		0.12	0.04	0.11	0.12	0.04	0.11		
EGPRS GMSK 2 Txslots	Tune-up		28.00	28.00	28.00	Scaling factor*			
	Slot Average Power [dBm]		27.19	26.95	26.79	1.20	1.27	1.32	
	Rear 15mm	1g SAR	0.665			0.80			
		10g SAR	0.386			0.46			
		Deviation	-0.01			-0.01			

Table 14-5 PCS1900 #2 AP ON Body

PCS1900 #2 AP ON Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2	
GPRS 2 Txslots	Tune-up		22.50	22.50	22.50	Scaling factor*			
	Slot Average Power [dBm]		21.80	21.50	21.41	1.17	1.26	1.29	
	Front	1g SAR		0.373			0.47		
		10g SAR		0.197			0.25		
		Deviation		0.08			0.08		
	Rear	1g SAR		0.603			0.76		
		10g SAR		0.303			0.38		
		Deviation		0.04			0.04		
	Left edge	1g SAR		0.035			0.04		
		10g SAR		0.019			0.02		
		Deviation		0.06			0.06		
	Right edge	1g SAR		0.063			0.08		
		10g SAR		0.039			0.05		
		Deviation		0.03			0.03		
	Bottom edge	1g SAR	0.695	0.671	0.619	0.82	0.84	0.80	
10g SAR		0.364	0.35	0.325	0.43	0.44	0.42		
Deviation		0.09	0.07	0.13	0.09	0.07	0.13		
EGPRS GMSK 2 Txslots	Tune-up		22.50	22.50	22.50	Scaling factor*			
	Slot Average Power [dBm]		21.81	21.70	21.52	1.17	1.20	1.25	
	Bottom edge	1g SAR	0.689			0.81			
		10g SAR	0.368			0.43			
	Deviation	0.04			0.04				

Table 14-6 WCDMA1900-BII #1 Head

WCDMA1900-BII #1 AP OFFHead									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	
RMC	Tune-up		23.20	23.20	23.20	Scaling factor*			
	Slot Average Power [dBm]		22.04	22.06	22.02	1.31	1.30	1.31	
	Left Cheek	1g SAR		0.099			0.13		
		10g SAR		0.069			0.09		
		Deviation		0.11			0.11		
	Left Tilt	1g SAR		0.051			0.07		
		10g SAR		0.033			0.04		
		Deviation		0.04			0.04		
	Right Cheek	1g SAR	0.172	0.142	0.162	0.22	0.18	0.21	
		10g SAR	0.106	0.086	0.1	0.14	0.11	0.13	
		Deviation	0.08	-0.01	-0.03	0.08	-0.01	-0.03	
	Right Tilt	1g SAR		0.048			0.06		
		10g SAR		0.03			0.04		
		Deviation		-0.02			-0.02		

Table 14-7 WCDMA1900-BII #1 AP OFF Body

WCDMA1900-BII #1 AP OFFBody									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	
RMC	Tune-up		23.20	23.20	23.20	Scaling factor*			
	Slot Average Power [dBm]		22.04	22.06	22.02	1.31	1.30	1.31	
	Front 15mm	1g SAR		0.348			0.45		
		10g SAR		0.204			0.27		
		Deviation		0.08			0.08		
	Rear 15mm	1g SAR	0.521	0.602	0.719	0.68	0.78	0.94	
		10g SAR	0.298	0.342	0.407	0.39	0.44	0.53	
		Deviation	0.12	0.02	0.1	0.12	0.02	0.10	

Table 14-8 WCDMA1900-BII #2 AP ON Body

WCDMA1900-BII #2 AP ONBody									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	
RMC	Tune-up		20.20	20.20	20.20	Scaling factor*			
	Slot Average Power [dBm]		18.93	18.95	18.92	1.34	1.33	1.34	
	Front	1g SAR		0.346			0.46		
		10g SAR		0.193			0.26		
		Deviation		0.06			0.06		
	Rear	1g SAR	0.621	0.634	0.676	0.83	0.85	0.91	
		10g SAR	0.311	0.334	0.365	0.42	0.45	0.49	
		Deviation	-0.09	0.09	0.08	-0.09	0.09	0.08	
	Left edge	1g SAR		0.028			0.04		
		10g SAR		0.019			0.03		
		Deviation		0.13			0.13		
	Right edge	1g SAR		0.052			0.07		
		10g SAR		0.033			0.04		
		Deviation		0.1			0.10		
	Bottom edge	1g SAR	0.707	0.802	0.933	0.95	1.07	1.25	
		10g SAR	0.385	0.432	0.496	0.52	0.58	0.67	
		Deviation	0.03	-0.09	-0.17	0.03	-0.09	-0.17	

Table 14-9 WCDMA1700-BIV #1 Head

WCDMA1700-BIV #1 AP OFFHead									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513	CH1412	CH1312	CH1513	CH1412	CH1312	
			1752.6 MHz	1732.4 MHz	1712.4 MHz	1752.6 MHz	1732.4 MHz	1712.4 MHz	
RMC	Tune-up		22.50	22.50	22.50	Scaling factor*			
	Slot Average Power [dBm]		21.39	21.40	21.43	1.29	1.29	1.28	
	Left Cheek	1g SAR		0.091			0.12		
		10g SAR		0.058			0.07		
		Deviation		0.03			0.03		
	Left Tilt	1g SAR		<0.01			<0.01		
		10g SAR		<0.01			<0.01		
		Deviation		0.07			0.07		
	Right Cheek	1g SAR	0.135	0.125	0.121	0.17	0.16	0.15	
		10g SAR	0.086	0.08	0.078	0.11	0.10	0.10	
		Deviation	0	0.12	0.11	0.00	0.12	0.11	
	Right Tilt	1g SAR		<0.01			<0.01		
		10g SAR		<0.01			<0.01		
		Deviation		0.12			0.12		

Table 14-10 WCDMA1700-BIV #1 AP OFF Body

WCDMA1700-BIV #1 AP OFFBody									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513	CH1412	CH1312	CH1513	CH1412	CH1312	
			1752.6 MHz	1732.4 MHz	1712.4 MHz	1752.6 MHz	1732.4 MHz	1712.4 MHz	
RMC	Tune-up		22.50	22.50	22.50	Scaling factor*			
	Slot Average Power [dBm]		21.39	21.40	21.43	1.29	1.29	1.28	
	Front 15mm	1g SAR		0.41			0.53		
		10g SAR		0.243			0.31		
		Deviation		0.05			0.05		
	Rear 15mm	1g SAR	0.775	0.748	0.667	1.00	0.96	0.85	
		10g SAR	0.443	0.426	0.379	0.57	0.55	0.48	
		Deviation	0.02	0.07	0.12	0.02	0.07	0.12	

Table 14-11 WCDMA1700-BIV #2 AP ON Body

WCDMA1700-BIV #2 AP ONBody									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513	CH1412	CH1312	CH1513	CH1412	CH1312	
			1752.6 MHz	1732.4 MHz	1712.4 MHz	1752.6 MHz	1732.4 MHz	1712.4 MHz	
RMC	Tune-up		20.00	20.00	20.00	Scaling factor*			
	Slot Average Power [dBm]		19.28	19.28	19.31	1.18	1.18	1.17	
	Front	1g SAR		0.491			0.58		
		10g SAR		0.275			0.32		
		Deviation		0.03			0.03		
	Rear	1g SAR	0.878	0.844	0.712	1.04	1.00	0.83	
		10g SAR	0.463	0.452	0.387	0.55	0.53	0.45	
		Deviation	-0.01	0.09	-0.04	-0.01	0.09	-0.04	
	Left edge	1g SAR		0.049			0.06		
		10g SAR		0.033			0.04		
		Deviation		0.05			0.05		
	Right edge	1g SAR		0.039			0.05		
		10g SAR		0.025			0.03		
		Deviation		0.04			0.04		
	Bottom edge	1g SAR	0.946	0.876	0.758	1.12	1.03	0.89	
		10g SAR	0.5	0.46	0.399	0.59	0.54	0.47	
		Deviation	-0.13	0.05	0.01	-0.13	0.05	0.01	

Table 14-12 WCDMA850-BV #1 Head

WCDMA850-BV #1Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH4233 846.6 MHz	CH4183 836.6 MHz	CH4132 826.4 MHz	CH4233 846.6 MHz	CH4183 836.6 MHz	CH4132 826.4 MHz	
RMC	Tune-up		25.50	25.50	25.50	Scaling factor*			
	Slot Average Power [dBm]		24.32	24.34	24.28	1.31	1.31	1.32	
	Left Cheek	1g SAR	0.409	0.416	0.402	0.54	0.54	0.53	
		10g SAR	0.317	0.323	0.311	0.42	0.42	0.41	
		Deviation	0.03	0.02	0.06	0.03	0.02	0.06	
	Left Tilt	1g SAR		0.238			0.31		
		10g SAR		0.186			0.24		
		Deviation		0.11			0.11		
	Right Cheek	1g SAR		0.332			0.43		
		10g SAR		0.25			0.33		
		Deviation		-0.03			-0.03		
	Right Tilt	1g SAR		0.21			0.27		
		10g SAR		0.163			0.21		
		Deviation		0.04			0.04		

Table 14-13 WCDMA850-BV #1 Body

WCDMA850-BV #1Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH4233 846.6 MHz	CH4183 836.6 MHz	CH4132 826.4 MHz	CH4233 846.6 MHz	CH4183 836.6 MHz	CH4132 826.4 MHz	
RMC	Tune-up		25.50	25.50	25.50	Scaling factor*			
	Slot Average Power [dBm]		24.32	24.34	24.28	1.31	1.31	1.32	
	Front	1g SAR		0.378			0.49		
		10g SAR		0.3			0.39		
		Deviation		-0.04			-0.04		
	Rear	1g SAR	0.456	0.5	0.528	0.60	0.65	0.70	
		10g SAR	0.363	0.393	0.416	0.48	0.51	0.55	
		Deviation	0	-0.01	-0.03	0.00	-0.01	-0.03	
	Left edge	1g SAR		0.37			0.48		
		10g SAR		0.262			0.34		
		Deviation		-0.06			-0.06		
	Right edge	1g SAR		0.356			0.46		
		10g SAR		0.253			0.33		
		Deviation		0.08			0.08		
	Bottom edge	1g SAR		0.176			0.23		
10g SAR			0.113			0.15			
Deviation			0.03			0.03			



Table 14-14 LTE1900-FDD2 #1 Head

LTE1900-FDD2 #1 Head								
Ambient Temperature: 22.5			Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	M	M	M	M	M
20MHz QPSK1RB	Tune-up		24.00	24.00	24.00	Scaling factor*		
	Measured Power [dBm]		23.61	23.60	23.60	1.09	1.10	1.10
	Left Cheek	1g SAR	0.108			0.12		
		10g SAR	0.074			0.08		
		Deviation	0.12			0.12		
	Left Tilt	1g SAR	0.049			0.05		
		10g SAR	0.033			0.04		
		Deviation	-0.09			-0.09		
	Right Cheek	1g SAR	0.209			0.23		
		10g SAR	0.129			0.14		
		Deviation	0.07			0.07		
	Right Tilt	1g SAR	0.056			0.06		
		10g SAR	0.039			0.04		
		Deviation	0.1			0.10		
	TRUE	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]	
19100				18900	18700	19100	18900	18700
L				H	M	L	H	M
20MHz QPSK50% RB	Tune-up		23.00	23.00	23.00	Scaling factor*		
	Measured Power [dBm]		22.67	22.70	22.64	1.08	1.07	1.09
	Left Cheek	1g SAR		0.08			0.09	
		10g SAR		0.058			0.06	
		Deviation		-0.08			-0.08	
	Left Tilt	1g SAR		0.05			0.05	
		10g SAR		0.035			0.04	
		Deviation		0.11			0.11	
	Right Cheek	1g SAR		0.133			0.14	
		10g SAR		0.089			0.10	
		Deviation		0.08			0.08	
	Right Tilt	1g SAR		0.046			0.05	
		10g SAR		0.031			0.03	
		Deviation		0.01			0.01	