Band 5					
Bandwidth (MHz)	RB allocation RB offset (Start RB)	Frequency (MHz)	QPSK Actual output power (dBm)	16QAM Actual output power (dBm)	64QAM Actual output power (dBm)
1.4 MHz	1RB High (5)	848.3	22.69	22.21	22.13
		836.5	22.56	22.37	21.96
		824.7	22.14	21.34	21.94
	1RB Middle (3)	848.3	22.83	22.33	22.01
		836.5	22.68	22.17	22.08
		824.7	22.23	21.42	21.89
	1RB Low (0)	848.3	22.63	22.32	22.09
		836.5	22.78	22.18	21.89
		824.7	22.26	21.45	21.90
	3RB High (3)	848.3	22.70	22.37	22.07
		836.5	22.50	22.51	21.73
		824.7	22.08	21.30	21.69
	3RB Middle (1)	848.3	22.72	22.49	21.78
		836.5	22.64	22.67	21.64
		824.7	22.14	21.37	21.86
	3RB Low (0)	848.3	22.68	21.95	21.76
		836.5	22.64	22.66	21.73
		824.7	22.11	21.36	21.70
	6RB (0)	848.3	22.42	21.14	-6.03
		836.5	22.47	21.58	20.92
		824.7	22.15	21.45	20.67
3 MHz	1RB High (14)	847.5	22.38	22.61	21.89
		836.5	22.81	22.28	22.09
		825.5	22.94	21.09	21.73
	1RB Middle (7)	847.5	22.58	22.52	21.75
		836.5	23.07	22.85	22.32
		825.5	22.15	21.32	22.09
	1RB Low (0)	847.5	22.73	22.25	21.81
		836.5	23.01	22.22	21.90
		825.5	22.04	21.29	22.14
	8RB High (7)	847.5	22.50	21.53	21.03
		836.5	22.44	21.37	21.14
		825.5	22.05	21.27	20.97
	8RB Middle (4)	847.5	22.45	21.22	20.93
		836.5	22.44	21.41	21.00
		825.5	22.11	21.35	20.84
	8RB Low (0)	847.5	22.43	21.23	20.85
		836.5	22.38	21.65	20.85
		825.5	22.09	21.34	20.94
	15RB (0)	847.5	22.42	21.39	21.16
		836.5	22.45	21.49	21.17
		825.5	22.06	21.23	20.98
5 MHz	1RB High (24)	846.5	22.56	21.97	22.00
		836.5	22.42	21.91	21.81

		826.5	22.32	21.12	21.45
	1RB Middle (12)	846.5	23.15	22.14	22.26
		836.5	22.85	22.68	21.73
		826.5	22.10	21.29	21.97
	1RB Low (0)	846.5	22.24	21.59	22.03
		836.5	22.68	21.76	20.93
		826.5	22.19	21.30	21.67
	12RB High (13)	846.5	22.44	21.47	20.98
		836.5	22.38	21.34	20.99
		826.5	22.13	21.26	21.12
	12RB Middle (6)	846.5	22.35	21.53	21.11
		836.5	22.39	21.42	20.97
		826.5	22.13	21.28	21.15
	12RB Low (0)	846.5	22.24	21.16	21.07
		836.5	22.43	21.49	21.11
		826.5	21.93	21.09	20.90
	25RB (0)	846.5	22.30	21.60	21.04
		836.5	22.42	21.40	21.13
		826.5	22.02	21.09	21.17
10 MHz	1RB High (49)	844.0	22.67	22.31	22.07
		836.5	22.36	21.60	21.92
		829.0	22.54	22.61	21.94
	1RB Middle (24)	844.0	22.44	22.13	22.03
		836.5	22.63	22.61	22.09
		829.0	22.64	21.71	22.05
	1RB Low (0)	844.0	22.42	21.88	21.96
		836.5	22.57	22.26	22.05
		829.0	22.05	21.28	21.54
	25RB High (25)	844.0	22.28	21.39	20.93
		836.5	22.28	21.66	20.90
		829.0	22.30	21.43	20.94
	25RB Middle (12)	844.0	22.37	21.43	20.92
		836.5	22.28	21.68	20.86
		829.0	22.30	21.42	21.22
	25RB Low (0)	844.0	22.29	21.28	20.97
		836.5	22.33	21.67	20.97
		829.0	22.16	21.20	21.14
	50RB (0)	844.0	22.31	21.25	21.02
		836.5	22.35	21.44	21.12
		829.0	22.47	21.51	21.04

Band 7					
Bandwidth (MHz)	RB allocation RB offset (Start RB)	Frequency (MHz)	QPSK Actual output power (dBm)	16QAM Actual output power (dBm)	64QAM Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	22.33	21.11	22.19
		2535	22.57	21.19	20.81
		2502.5	21.99	21.34	20.86
	1RB Middle (12)	2567.5	22.59	21.29	22.71
		2535	22.88	21.32	20.84
		2502.5	22.64	21.71	21.39
	1RB Low (0)	2567.5	22.31	20.85	22.40
		2535	22.52	20.67	20.65
		2502.5	21.98	21.21	20.96
	12RB High (13)	2567.5	21.44	20.15	20.32
		2535	21.66	20.62	20.11
		2502.5	21.49	20.49	20.47
	12RB Middle (6)	2567.5	21.47	20.55	20.36
		2535	21.70	20.66	20.38
		2502.5	21.52	20.47	20.44
	12RB Low (0)	2567.5	21.48	20.32	20.36
		2535	21.68	20.61	20.34
		2502.5	21.53	20.44	20.65
	25RB (0)	2567.5	21.39	20.34	20.45
		2535	21.69	20.71	20.29
		2502.5	21.45	20.35	20.64
10 MHz	1RB High (49)	2565	22.50	21.40	20.47
		2535	22.32	20.97	20.25
		2505	22.53	21.28	20.52
	1RB Middle (24)	2565	22.45	21.62	20.51
		2535	22.96	21.85	20.33
		2505	22.71	21.17	20.61
	1RB Low (0)	2565	22.54	21.49	20.45
		2535	22.76	21.38	20.22
		2505	22.49	20.82	20.60
	25RB High (25)	2565	21.45	20.41	19.47
		2535	21.68	20.61	19.34
		2505	21.47	20.38	19.84
	25RB Middle (12)	2565	21.49	20.62	19.66
		2535	21.67	20.54	19.48
		2505	21.46	20.54	19.86
	25RB Low (0)	2565	21.61	20.64	19.44
		2535	21.73	20.62	19.31
		2505	21.52	20.49	19.60
	50RB (0)	2565	21.55	20.44	19.43
		2535	21.69	20.53	19.28
		2505	21.42	20.66	19.55
15 MHz	1RB High (74)	2562.5	22.17	21.92	20.30
		2535	22.46	21.37	20.10

		2507.5	22.78	21.31	20.33
	1RB Middle (37)	2562.5	22.94	22.19	20.66
		2535	22.92	22.16	20.17
		2507.5	22.73	21.30	20.42
	1RB Low (0)	2562.5	22.25	21.87	20.22
		2535	22.47	21.45	20.29
		2507.5	22.48	20.76	20.55
	36RB High (38)	2562.5	21.39	20.45	19.48
		2535	21.63	20.44	19.21
		2507.5	21.55	20.51	19.50
	36RB Middle (19)	2562.5	21.52	20.50	19.59
		2535	21.65	20.46	19.40
		2507.5	21.42	20.47	19.64
	36RB Low (0)	2562.5	21.39	20.28	19.53
		2535	21.57	20.46	19.37
		2507.5	21.46	20.43	19.68
	75RB (0)	2562.5	21.39	20.40	19.57
		2535	21.58	20.50	19.28
		2507.5	21.49	20.56	19.48
20 MHz	1RB High (99)	2560	22.18	20.81	20.34
		2535	22.31	21.16	20.05
		2510	22.65	21.82	20.66
	1RB Middle (50)	2560	22.54	21.23	20.31
		2535	22.73	21.97	20.22
		2510	22.73	21.46	20.82
	1RB Low (0)	2560	22.35	20.88	20.08
		2535	21.97	21.01	20.32
		2510	22.44	20.78	20.46
	50RB High (50)	2560	21.45	20.45	19.41
		2535	21.63	20.58	19.30
		2510	21.62	20.64	19.74
	50RB Middle (25)	2560	21.49	20.39	19.47
		2535	21.62	20.66	19.36
		2510	21.54	20.50	19.67
	50RB Low (0)	2560	21.46	20.28	19.36
		2535	21.58	20.53	19.41
		2510	21.42	20.20	19.57
	100RB (0)	2560	21.48	20.39	19.34
		2535	21.56	20.47	19.44
		2510	21.53	20.47	19.62

Band 12					
Bandwidth (MHz)	RB allocation RB offset (Start RB)	Frequency (MHz)	QPSK Actual output power (dBm)	16QAM Actual output power (dBm)	64QAM Actual output power (dBm)
1.4 MHz	1RB High (5)	715.3	22.79	22.74	21.91
		707.5	23.05	22.99	21.86
		699.7	23.03	22.82	22.07
	1RB Middle (3)	715.3	22.92	22.67	21.95
		707.5	23.13	22.94	21.96
		699.7	23.16	22.98	22.01
	1RB Low (0)	715.3	22.90	22.72	21.88
		707.5	23.04	22.83	21.88
		699.7	23.13	22.91	22.02
	3RB High (3)	715.3	22.99	22.79	22.04
		707.5	22.98	22.98	21.87
		699.7	23.03	22.96	22.01
	3RB Middle (1)	715.3	23.13	22.76	22.00
		707.5	23.05	22.99	21.72
		699.7	23.13	22.98	22.03
	3RB Low (0)	715.3	22.91	22.75	21.98
		707.5	22.97	22.97	21.62
		699.7	23.00	22.96	21.74
	6RB (0)	715.3	22.93	21.73	20.96
		707.5	22.94	21.96	20.81
		699.7	22.98	21.94	20.85
3 MHz	1RB High (14)	714.5	22.80	22.71	21.73
		707.5	22.95	22.70	21.70
		700.5	23.08	22.98	21.72
	1RB Middle (7)	714.5	23.27	22.96	21.50
		707.5	23.27	22.95	21.57
		700.5	23.19	22.98	22.25
	1RB Low (0)	714.5	23.19	22.96	21.90
		707.5	23.02	22.75	22.10
		700.5	22.88	22.85	21.93
	8RB High (7)	714.5	22.86	21.84	20.71
		707.5	22.98	21.91	20.96
		700.5	22.97	21.91	21.03
	8RB Middle (4)	714.5	22.98	21.93	20.93
		707.5	22.96	21.95	20.92
		700.5	22.99	21.93	21.02
	8RB Low (0)	714.5	22.97	21.97	21.00
		707.5	22.89	21.87	20.93
		700.5	22.95	21.90	21.05
	15RB (0)	714.5	22.96	21.97	20.90
		707.5	22.98	21.78	20.97
		700.5	22.97	21.88	21.02
5 MHz	1RB High (24)	713.5	22.81	22.62	21.59
		707.5	22.66	22.40	22.01

		701.5	22.80	22.81	21.77
	1RB Middle (12)	713.5	23.60	22.92	22.05
		707.5	23.14	22.38	22.36
		701.5	23.28	22.79	22.20
	1RB Low (0)	713.5	22.99	22.34	21.83
		707.5	22.92	22.17	21.93
		701.5	22.89	22.74	21.99
	12RB High (13)	713.5	22.90	21.76	20.53
		707.5	22.85	21.72	21.04
		701.5	22.95	22.00	20.84
	12RB Middle (6)	713.5	22.99	21.95	20.73
		707.5	22.97	21.89	20.95
		701.5	22.93	21.91	21.13
	12RB Low (0)	713.5	22.82	21.77	20.77
		707.5	22.87	21.74	20.84
		701.5	22.85	21.88	21.16
	25RB (0)	713.5	22.87	21.81	20.70
		707.5	22.90	21.91	21.07
		701.5	22.98	21.95	21.14
10 MHz	1RB High (49)	711	22.86	22.62	22.30
		707.5	22.71	22.80	22.43
		704	23.00	22.64	22.25
	1RB Middle (24)	711	23.26	22.69	22.48
		707.5	23.01	22.87	22.42
		704	23.17	22.86	22.52
	1RB Low (0)	711	22.73	22.29	22.36
		707.5	22.80	22.79	22.01
		704	22.93	22.73	22.36
	25RB High (25)	711	22.99	21.92	21.96
		707.5	22.85	21.91	22.09
		704	22.93	21.93	22.04
	25RB Middle (12)	711	22.97	21.99	22.18
		707.5	22.82	21.97	22.07
		704	22.92	21.95	21.91
	25RB Low (0)	711	22.84	21.91	22.19
		707.5	22.89	21.88	22.10
		704	22.93	21.97	22.08
	50RB (0)	711	22.92	21.84	22.08
		707.5	22.83	21.86	21.96
		704	22.94	21.93	22.11

Band 28					
Bandwidth (MHz)	RB allocation RB offset	Frequency (MHz)	Actual output power (dBm)		
			QPSK	16QAM	64QAM
3MHz	1RB_High	746.5	22.88	22.33	21.44
		719.5	23.33	22.72	21.71
		704.5	23.03	22.51	21.52
	1RB_Middle	746.5	22.97	22.63	21.77
		719.5	23.21	22.69	21.80
		704.5	23.36	22.92	21.28
	1RB_Low	746.5	23.03	22.57	21.64
		719.5	22.93	22.80	21.57
		704.5	23.06	22.61	21.79
	8RB_High	746.5	22.42	21.38	20.39
		719.5	22.71	21.77	20.50
		704.5	22.77	21.82	20.61
	8RB_Middle	746.5	22.48	21.45	20.66
		719.5	22.75	21.78	20.55
		704.5	22.72	21.92	20.78
	8RB_Low	746.5	22.58	21.50	20.63
		719.5	22.73	21.71	20.60
		704.5	22.60	21.86	20.55
	15RB	746.5	22.55	21.24	20.65
		719.5	22.78	21.67	20.76
		704.5	22.65	21.75	20.74
5MHz	1RB_High	745.5	22.73	22.08	21.63
		720.5	23.18	22.20	21.57
		705.5	22.64	22.31	21.28
	1RB_Middle	745.5	22.98	22.48	22.02
		720.5	23.20	22.23	21.70
		705.5	23.39	22.19	21.82
	1RB_Low	745.5	22.70	22.15	21.77
		720.5	22.93	22.06	21.28
		705.5	22.59	22.18	21.64
	12RB_High	745.5	22.46	21.46	20.45
		720.5	22.65	21.74	21.00
		705.5	22.74	21.72	20.74
	12RB_Middle	745.5	22.53	21.63	20.70
		720.5	22.70	21.55	20.79
		705.5	22.72	21.78	20.81
	12RB_Low	745.5	22.52	21.66	20.68
		720.5	22.66	21.52	20.51
		705.5	22.66	21.64	20.78

	25RB	745.5	22.52	21.44	20.81
		720.5	22.70	21.93	20.71
		705.5	22.64	21.90	20.62
10MHz	1RB_High	743	22.82	22.05	21.70
		723	23.57	22.59	21.54
		708	22.96	22.43	21.49
	1RB_Middle	743	22.92	22.66	21.76
		723	23.32	22.65	21.75
		708	23.46	22.54	21.50
	1RB_Low	743	22.89	22.50	21.60
		723	22.96	22.52	21.99
		708	22.97	22.32	21.66
	25RB_High	743	22.56	21.59	20.38
		723	22.70	21.88	20.83
		708	22.57	21.60	20.58
	25RB_Middle	743	22.58	21.64	20.96
		723	22.66	21.56	20.92
		708	22.56	21.59	20.35
	25RB_Low	743	22.54	21.62	20.83
		723	22.69	21.64	20.67
		708	22.60	21.71	20.58
	50RB	743	22.58	21.44	20.52
		723	22.65	21.73	20.72
		708	22.56	21.84	20.51
15MHz	1RB_High	740.5	22.73	22.24	21.63
		725.5	22.90	22.75	21.48
		710.5	23.01	22.47	21.55
	1RB_Middle	740.5	22.88	22.43	21.60
		725.5	22.81	22.76	21.52
		710.5	23.36	22.82	21.35
	1RB_Low	740.5	22.86	22.24	21.63
		725.5	22.83	22.96	21.70
		710.5	22.98	22.65	21.58
	36RB_High	740.5	22.60	21.60	20.65
		725.5	22.72	21.68	20.74
		710.5	22.62	21.69	20.72
	36RB_Middle	740.5	22.59	21.64	20.67
		725.5	22.70	21.73	20.75
		710.5	22.62	21.70	20.71
	36RB_Low	740.5	22.52	21.59	20.70
		725.5	22.62	21.35	20.86
		710.5	22.64	21.55	20.66

	75RB	740.5	22.54	21.48	20.60
		725.5	22.65	21.75	20.88
		710.5	22.60	21.60	20.61
20MHz	1RB_High	738	22.79	22.06	21.41
		728	22.87	22.22	21.85
		713	22.97	22.72	21.15
	1RB_Middle	738	22.76	22.40	21.51
		728	23.04	22.68	21.60
		713	22.96	22.94	21.94
	1RB_Low	738	22.82	22.10	21.53
		728	22.94	22.47	21.65
		713	22.86	21.99	21.56
	50RB_High	738	22.53	21.54	20.61
		728	22.59	21.65	20.88
		713	22.52	21.70	20.54
	50RB_Middle	738	22.48	21.74	20.56
		728	22.60	21.72	20.64
		713	22.42	21.83	20.64
	50RB_Low	738	22.53	21.70	20.62
		728	22.55	21.52	20.69
		713	22.56	21.65	20.62
	100RB	738	22.52	21.60	20.68
		728	22.67	21.57	20.88
		713	22.56	21.56	20.57

11.5 Wi-Fi and BT Measurement result

The maximum output power of BT is 9.27dBm.
The maximum tune up of BT is 9.5dBm.

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

802.11b				
Channel\data rate	1Mbps	2Mbps	5.5Mbps	11Mbps
11(2462MHz)	18.08	18.53	18.66	18.24
6(2437(MHz)	17.92	/	17.73	/
1(2412MHz)	18.01	/	17.17	/
Tune up	19.00	19.00	19.00	18.50

802.11g								
Channel\data rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
11(2462MHz)	15.27	/	/	15.62	/	/	/	/
Tune up	16.00	16.00	16.00	16.00	16.00	16.00	15.50	15.00
6(2437(MHz)	15.32	/	/	15.19	/	/	/	/
1(2412MHz)	15.35	15.07	15.51	15.66	15.07	15.12	14.70	14.67
Tune up	16.50	16.50	16.50	16.50	16.00	16.00	15.50	15.00

802.11n-20MHz								
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
11(2462MHz)	15.83	15.79	15.77	15.73	15.69	15.25	15.23	14.78
Tune up	16.00	16.00	16.00	16.00	16.00	15.50	15.50	15.00
6(2437(MHz)	14.87	/	/	/	/	/	/	/
Tune up	17.00	16.00	16.00	16.00	16.00	15.50	15.50	15.00
1(2412MHz)	14.76	/	/	/	/	/	/	/
Tune up	16.00	16.00	16.00	16.00	16.00	15.50	15.50	15.00

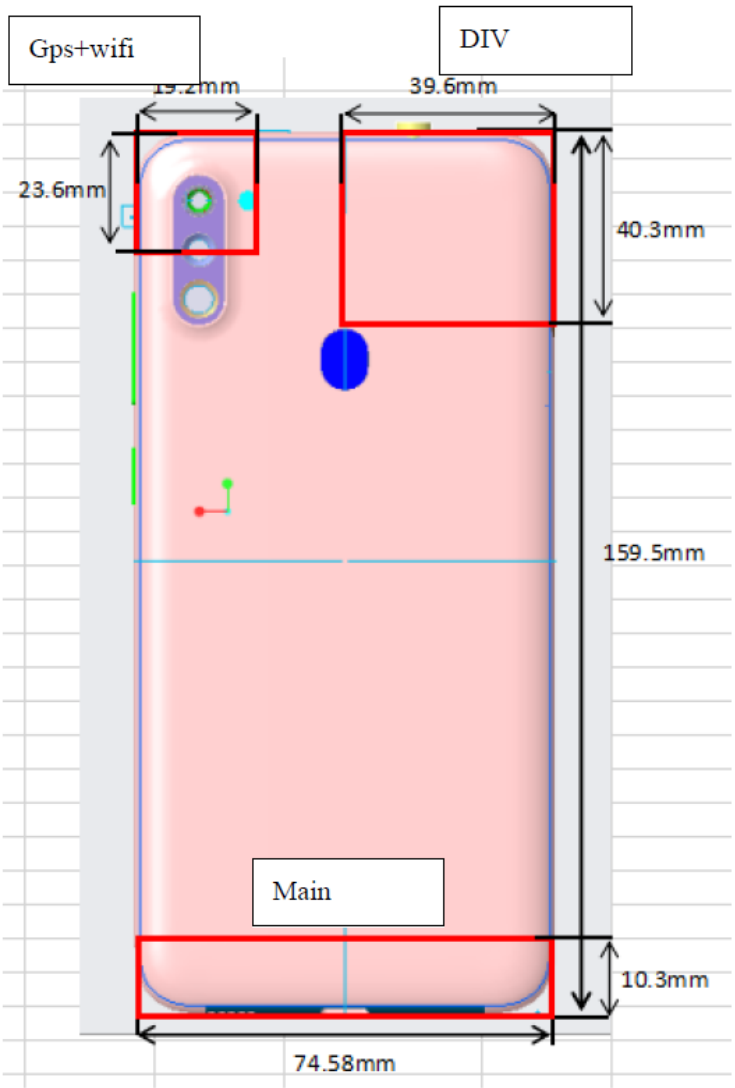
802.11n-40MHz								
Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
9(2452MHz)	14.03	/	/	/	/	/	/	/
Tune up	17.00	16.00	16.00	16.00	16.00	16.00	15.50	15.00
6(2437MHz)	15.31	15.26	15.24	15.23	15.19	14.68	14.65	13.69
3(2422MHz)	13.85	/	/	/	/	/	/	/
Tune up	16.00	16.00	16.00	16.00	16.00	16.00	15.50	15.00

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, 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
WLAN	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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

- f(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	9.60	9.5	8.9	Yes
		Body	19.20	9.5	8.9	Yes
2.4GHz WLAN	2.45	Head	9.58	19	79.43	No
		Body	19.17	19	79.43	No

13 Evaluation of Simultaneous

Table 13.1: The sum of reported SAR values for main antenna and WiFi 2.4G

	Position	Main antenna	WLAN	Sum
Maximum reported SAR value for Head	Left hand, Touch cheek	0.21	0.67	**0.88**
Maximum reported SAR value for Body	Bottom	1.11	<0.01	**1.11**

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	Right hand, Touch cheek	0.28	0.37	**0.65**
Maximum reported SAR value for Body	Bottom	1.11	0.19[1]	**1.30**

[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$_{1g}$ (W/kg)
				dBm	mW	
Bluetooth	2.441	Head	5	9.5	8.9	0.37
Bluetooth	2.441	Body	10	9.5	8.9	0.19

* - 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 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:

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

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

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

Table 14.1: Duty Cycle

Mode	Duty Cycle
Speech for GSM850	1:2
Speech for GSM1900	1:4
GPRS&EGPRS for GSM850	1:2
GPRS&EGPRS for GSM1900	1:4
WCDMA&LTE FDD	1:1

The evaluation of multi-SIM cards:

We'll perform the head measurement in all bands with the primary SIM card depending on the evaluation of multi-SIM cards and retest on highest value point with other SIM cards. Then, repeat the measurement in the Body test.

Frequency		Mode/Band	Side	Position	SIM Type	1g SAR (W/kg)	Power Drift
MHz	Channel						
20600	844	LTE Band5	Right	Cheek	SIM1	0.12	0.08
20600	844	LTE Band5	Right	Cheek	SIM2	0.089	0.05

Note: According to the values in the above table, the **SIM1** is the primary SIM card.

We'll perform the head measurement with the SIM1 and retest on highest value point with others.

Frequency		Mode/Band	Position	SIM Type	1g SAR (W/kg)	Power Drift
MHz	Channel					
20600	844	LTE Band5	Rear	SIM1	0.159	0.1
20600	844	LTE Band5	Rear	SIM2	0.142	0.06

Note: According to the values in the above table, the **SIM1** is the primary SIM card.

We'll perform the body measurement with the SIM1 and retest on highest value point with others.

The evaluation of multi-Batteries:

We'll perform the head measurement in all bands with the primary Battery depending on the evaluation of multi-Batteries and retest on highest value point with other Battery. Then, repeat the measurement in the Body test.

Frequency		Mode/Band	Side	Position	Battery	1g SAR (W/kg)	PowerDrift
MHz	Channel						
20150	829	LTE Band5	Right	Cheek	B1	0.12	0.08
20150	829	LTE Band5	Right	Cheek	B2	0.085	0.07

Note: According to the values in the above table, the **B1** is the primary Battery.

We'll perform the head measurement with the B1 and retest on highest value point with others.

Frequency		Mode/Band	Position	Battery	1g SAR (W/kg)	PowerDrift
MHz	Channel					
20150	829	LTE Band5	Rear	B1	0.159	0.1
20150	829	LTE Band5	Rear	B2	0.151	0.02

Note: According to the values in the above table, the **B1** is the primary Battery.

We'll perform the body measurement with the B1 and retest on highest value point with others.

Note

S1:SIM1

S2:SIM2

B1: The battery of HQ-71S by SCUD(Fujian) Electronics Co., Ltd

B2: The battery of HQ-71S by Ningde Amperex Technology Limited

H1: The headset of EHS61ASFWE by DONGGUAN YOUNGBO ELECTRONICS CO.,LTD

H2: The battery of EHS61ASFWE by CRESYN VIETNAM CO.,LTD.

14.1 SAR results for Fast SAR

.

Table 14.1-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Cheek	/	27.28	28.5	0.162	**0.21**	0.126	**0.17**	-0.18
190	836.6	Left	Tilt	/	27.28	28.5	0.106	**0.14**	0.086	**0.11**	-0.06
251	848.8	Right	Cheek	Fig.1	27.12	28.5	0.206	**0.28**	0.16	**0.22**	-0.05
190	836.6	Right	Cheek	/	27.28	28.5	0.177	**0.23**	0.137	**0.18**	0.02
128	824.2	Right	Cheek	/	27.43	28.5	0.13	**0.17**	0.101	**0.13**	0.07
190	836.6	Right	Tilt	/	27.28	28.5	0.115	**0.15**	0.091	**0.12**	0.18
251	848.8	Right	Cheek	B2	27.12	28.5	0.189	**0.26**	0.143	**0.20**	-0.02
251	848.8	Right	Cheek	S2	27.12	28.5	0.176	**0.24**	0.134	**0.18**	-0.06

Note: the head SAR of GSM850 is tested with GPRS (4Txslots) mode because of VoIP.

Table 14.1-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (4)	Front	/	27.28	28.5	0.134	**0.18**	0.093	**0.12**	-0.10
251	848.8	GPRS (4)	Rear	Fig.2	27.12	28.5	0.36	**0.49**	0.217	**0.30**	0.06
190	836.6	GPRS (4)	Rear	/	27.28	28.5	0.244	**0.32**	0.149	**0.20**	-0.14
128	824.2	GPRS (4)	Rear	/	27.43	28.5	0.178	**0.23**	0.127	**0.16**	0.05
190	836.6	GPRS (4)	Left	/	27.28	28.5	0.116	**0.15**	0.077	**0.10**	0.16
190	836.6	GPRS (4)	Right	/	27.28	28.5	0.149	**0.20**	0.099	**0.13**	-0.06
190	836.6	GPRS (4)	Bottom	/	27.28	28.5	0.092	**0.12**	0.049	**0.06**	0.00
251	848.8	EGPRS (4)	Rear	/	27.15	28.5	0.351	**0.48**	0.213	**0.29**	0.09
251	848.8	GPRS (4)	Rear	B2	27.12	28.5	0.326	**0.45**	0.187	**0.26**	0.02
251	848.8	GPRS (4)	Rear	S2	27.12	28.5	0.342	**0.47**	0.202	**0.28**	-0.06

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-3: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	Left	Cheek	/	27.67	28.5	0.079	**0.10**	0.05	**0.06**	0.18
661	1880	Left	Cheek	Fig.3	27.93	28.5	0.094	**0.11**	0.06	**0.07**	-0.03
512	1850.2	Left	Cheek	/	27.53	28.5	0.087	**0.11**	0.055	**0.07**	-0.17
661	1880	Left	Tilt	/	27.93	28.5	0.09	**0.10**	0.055	**0.06**	0.18
661	1880	Right	Cheek	/	27.93	28.5	0.09	**0.10**	0.055	**0.06**	0.02
661	1880	Right	Tilt	/	27.93	28.5	0.071	**0.08**	0.043	**0.05**	-0.07
661	1880	Left	Cheek	B2	27.93	28.5	0.081	**0.09**	0.051	**0.06**	-0.06
661	1880	Left	Cheek	S2	27.93	28.5	0.086	**0.10**	0.057	**0.06**	0.07

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

Table 14.1-4: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (2)	Front	/	27.93	28.5	0.159	**0.18**	0.096	**0.11**	0.03
810	1909.8	GPRS (2)	Rear	/	27.93	28.5	0.253	**0.29**	0.145	**0.17**	0.11
661	1880	GPRS (2)	Rear	/	27.93	28.5	0.067	**0.08**	0.04	**0.05**	0.08
512	1850.2	GPRS (2)	Rear	/	27.93	28.5	0.031	**0.04**	0.019	**0.02**	0.14
661	1880	GPRS (2)	Left	/	27.67	28.5	0.35	**0.42**	0.192	**0.23**	-0.17
661	1880	GPRS (2)	Right	/	27.93	28.5	0.41	**0.47**	0.226	**0.26**	-0.03
810	1909.8	GPRS (2)	Bottom	Fig.4	27.53	28.5	0.505	**0.63**	0.275	**0.34**	0.01
661	1880	GPRS (2)	Bottom	/	27.53	28.5	0.483	**0.60**	0.27	**0.34**	0.09
512	1850.2	GPRS (2)	Bottom	/	27.53	28.5	0.468	**0.59**	0.234	**0.29**	0.06
810	1909.8	EGPRS (2)	Bottom	/	27.53	28.5	0.421	**0.53**	0.213	**0.27**	0.07
512	1850.2	GPRS (2)	Bottom	B2	27.93	28.5	0.159	**0.18**	0.096	**0.11**	0.03
512	1850.2	GPRS (2)	Bottom	S2	27.93	28.5	0.253	**0.29**	0.145	**0.17**	0.11

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-5: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9538	1907.6	Left	Cheek	/	22.92	23.5	0.078	**0.09**	0.048	**0.05**	-0.13
9400	1880	Left	Cheek	Fig.5	23.22	23.5	0.08	**0.09**	0.05	**0.05**	0.03
9262	1852.4	Left	Cheek	/	22.95	23.5	0.076	**0.09**	0.047	**0.05**	0.03
9400	1880	Right	Cheek	/	23.22	23.5	0.077	**0.08**	0.044	**0.05**	0.06
9400	1880	Right	Cheek	/	23.22	23.5	0.071	**0.08**	0.043	**0.05**	0.00
9400	1880	Right	Tilt	/	23.22	23.5	0.056	**0.06**	0.032	**0.03**	0.17
9400	1880	Left	Cheek	B2	23.22	23.5	0.07	**0.07**	0.043	**0.05**	0.04
9400	1880	Left	Cheek	S2	23.22	23.5	0.074	**0.08**	0.045	**0.05**	0.03

Table 14.1-6: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	23.22	23.5	0.281	**0.30**	0.164	**0.17**	0.14
9400	1880	Rear	/	23.22	23.5	0.452	**0.48**	0.26	**0.28**	0.10
9400	1880	Left	/	23.22	23.5	0.131	**0.14**	0.078	**0.08**	0.17
9400	1880	Right	/	23.22	23.5	0.054	**0.06**	0.032	**0.03**	-0.06
9538	1907.6	Bottom	/	22.92	23.5	0.669	**0.76**	0.367	**0.42**	-0.17
9400	1880	Bottom	/	23.22	23.5	0.717	**0.76**	0.392	**0.42**	-0.07
9262	1852.4	Bottom	Fig.6	22.95	23.5	0.735	**0.83**	0.399	**0.45**	0.03
9262	1852.4	Bottom	B2	22.95	23.5	0.721	**0.82**	0.382	**0.43**	0.08
9262	1852.4	Bottom	S2	22.95	23.5	0.73	**0.83**	0.393	**0.45**	0.06

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-7: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1412	1732.4	Left	Cheek	/	23.09	23.5	0.124	**0.14**	0.083	**0.09**	-0.01
1412	1732.4	Left	Tilt	/	23.09	23.5	0.106	**0.12**	0.068	**0.07**	0.14
1513	1752.6	Right	Cheek	Fig.7	22.89	23.5	0.19	**0.22**	0.121	**0.14**	-0.06
1412	1732.4	Right	Cheek	/	23.09	23.5	0.187	**0.21**	0.119	**0.13**	0.18
1312	1712.4	Right	Cheek	/	23.19	23.5	0.149	**0.16**	0.096	**0.10**	0.16
1412	1732.4	Right	Tilt	/	23.09	23.5	0.092	**0.10**	0.057	**0.06**	-0.01
1513	1752.6	Right	Cheek	B2	22.89	23.5	0.167	**0.19**	0.11	**0.13**	-0.02
1513	1752.6	Right	Cheek	S2	22.89	23.5	0.146	**0.17**	0.091	**0.10**	0.04

Table 14.1-8: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.5	Front	/	23.09	23.5	0.384	**0.42**	0.222	**0.24**	-0.08
1513	1752.6	Rear	/	22.89	23.5	0.825	**0.95**	0.46	**0.53**	0.13
1412	1732.5	Rear	/	23.09	23.5	0.842	**0.93**	0.464	**0.51**	0.04
1312	1712.4	Rear	/	23.19	23.5	0.796	**0.85**	0.44	**0.47**	0.00
1412	1732.5	Left	/	23.09	23.5	0.094	**0.10**	0.058	**0.06**	0.18
1412	1732.5	Right	/	23.09	23.5	0.089	**0.10**	0.057	**0.06**	-0.12
1513	1752.6	Bottom	Fig.8	22.89	23.5	0.961	**1.11**	0.524	**0.60**	0.08
1412	1732.5	Bottom	/	23.09	23.5	0.893	**0.98**	0.48	**0.53**	0.07
1312	1712.4	Bottom	/	23.19	23.5	0.898	**0.96**	0.487	**0.52**	-0.13
1513	1752.6	Bottom	B2	22.89	23.5	0.931	**1.07**	0.502	**0.58**	0.04
1513	1752.6	Bottom	S2	22.89	23.5	0.945	**1.09**	0.511	**0.59**	0.03

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-9: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4183	836.6	Left	Cheek	/	23.27	25	0.091	**0.14**	0.069	**0.10**	-0.16
4183	836.6	Left	Tilt	/	23.27	25	0.056	**0.08**	0.045	**0.07**	0.02
4233	846.6	Right	Cheek	Fig.9	23.31	25	0.109	**0.16**	0.083	**0.12**	0.10
4183	836.6	Right	Cheek	/	23.27	25	0.094	**0.14**	0.072	**0.11**	-0.12
4132	826.4	Right	Cheek	/	23.35	25	0.078	**0.11**	0.06	**0.09**	0.15
4183	836.6	Right	Tilt	/	23.27	25	0.064	**0.10**	0.049	**0.07**	0.09
4233	846.6	Right	Cheek	B2	23.31	25	0.089	**0.13**	0.063	**0.09**	0.05
4233	846.6	Right	Cheek	S2	23.31	25	0.094	**0.14**	0.075	**0.11**	0.14

Table 14.1-10: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4183	836.6	Front	/	23.27	25	0.074	**0.11**	0.045	**0.07**	0.18
4233	846.6	Rear	Fig.10	23.31	25	0.149	**0.22**	0.09	**0.13**	-0.03
4183	836.6	Rear	/	23.27	25	0.121	**0.18**	0.074	**0.11**	0.15
4132	826.4	Rear	/	23.35	25	0.095	**0.14**	0.058	**0.08**	-0.17
4183	836.6	Left	/	23.27	25	0.059	**0.09**	0.039	**0.06**	0.10
4183	836.6	Right	/	23.27	25	0.075	**0.11**	0.049	**0.07**	-0.16
4183	836.6	Bottom	/	23.27	25	0.044	**0.07**	0.025	**0.04**	0.04
4233	846.6	Rear	B2	23.31	25	0.141	**0.21**	0.083	**0.12**	-0.07
4233	846.6	Rear	S2	23.31	25	0.135	**0.20**	0.076	**0.11**	0.07

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-11: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18900	1880	1RB_High	Left	Cheek	Fig.11	23.42	23.5	0.078	0.08	0.05	**0.05**	-0.17
18900	1880	1RB_High	Left	Tilt	/	23.42	23.5	0.075	**0.08**	0.047	**0.05**	0.00
18900	1880	1RB_High	Right	Cheek	/	23.42	23.5	0.065	**0.07**	0.041	**0.04**	-0.12
18900	1880	1RB_High	Right	Tilt	/	23.42	23.5	0.055	**0.06**	0.035	**0.04**	0.02
18700	1860	50RB_High	Left	Cheek	/	22.26	22.5	0.056	**0.06**	0.037	**0.04**	0.13
18700	1860	50RB_High	Left	Tilt	/	22.26	22.5	0.062	**0.07**	0.038	**0.04**	-0.10
18700	1860	50RB_High	Right	Cheek	/	22.26	22.5	0.056	**0.06**	0.035	**0.04**	0.09
18700	1860	50RB_High	Right	Tilt	/	22.26	22.5	0.046	**0.05**	0.028	**0.03**	-0.03
18900	1880	1RB_High	Left	Cheek	B2	23.42	23.5	0.066	**0.07**	0.038	**0.04**	-0.10
18900	1880	1RB_High	Left	Cheek	S2	23.42	23.5	0.057	**0.06**	0.031	**0.03**	0.07

Note: The LTE mode is QPSK_20MHz.

Table 14.1-12: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
18900	1880	1RB_High	Front	/	23.42	23.5	0.241	**0.25**	0.14	**0.14**	0.08
18900	1880	1RB_High	Rear	/	23.42	23.5	0.375	**0.38**	0.216	**0.22**	0.15
18900	1880	1RB_High	Left	/	23.42	23.5	0.11	**0.11**	0.067	**0.07**	0.10
18900	1880	1RB_High	Right	/	23.42	23.5	0.044	**0.04**	0.025	**0.03**	-0.16
18900	1880	1RB_High	Bottom	Fig.12	23.42	23.5	0.604	0.62	0.326	**0.33**	-0.03
18700	1860	50RB_High	Front	/	22.26	22.5	0.19	**0.20**	0.111	**0.12**	-0.13
18700	1860	50RB_High	Rear	/	22.26	22.5	0.306	**0.32**	0.176	**0.19**	0.02
18700	1860	50RB_High	Left	/	22.26	22.5	0.094	**0.10**	0.054	**0.06**	-0.18
18700	1860	50RB_High	Right	/	22.26	22.5	<0.01	**<0.01**	<0.01	**<0.01**	0.06
18700	1860	50RB_High	Bottom	/	22.26	22.5	0.496	**0.52**	0.269	**0.28**	-0.14
18900	1880	1RB_High	Bottom	B2	23.42	23.5	0.586	**0.60**	0.312	**0.32**	0.08
18900	1880	1RB_High	Bottom	S2	23.42	23.5	0.563	**0.57**	0.289	**0.29**	-0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-13: SAR Values (LTE Band4 - Head)

Ambient Temperature: 22.9 °C												
Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20300	1745	1RB_Mid	Left	Cheek	/	22.74	23.5	0.064	**0.08**	0.043	**0.05**	-0.03
20300	1745	1RB_Mid	Left	Tilt	/	22.74	23.5	0.058	**0.07**	0.037	**0.04**	-0.18
20300	1745	1RB_Mid	Right	Cheek	Fig.13	22.74	23.5	0.089	**0.11**	0.057	**0.07**	-0.04
20300	1745	1RB_Mid	Right	Tilt	/	22.74	23.5	0.046	**0.05**	0.029	**0.03**	0.12
20050	1720	50RB_Low	Left	Cheek	/	22.02	22.5	0.039	**0.04**	0.027	**0.03**	0.10
20050	1720	50RB_Low	Left	Tilt	/	22.02	22.5	<0.01	**<0.01**	<0.01	**<0.01**	0.14
20050	1720	50RB_Low	Right	Cheek	/	22.02	22.5	0.061	**0.07**	0.039	**0.04**	0.16
20050	1720	50RB_Low	Right	Tilt	/	22.02	22.5	<0.01	**<0.01**	<0.01	**<0.01**	-0.05
20300	1745	1RB_Mid	Right	Cheek	B2	22.74	23.5	0.068	**0.08**	0.041	**0.05**	-0.07
20300	1745	1RB_Mid	Right	Cheek	S2	22.74	23.5	0.07	**0.08**	0.043	**0.05**	0.08

Note: The LTE mode is QPSK_20MHz.

Table 14.1-14: SAR Values (LTE Band4 - Body)

Ambient Temperature: 22.9 °C												
Liquid Temperature: 22.5°C												
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
20300	1745	1RB_Mid	Front	/	22.74	23.5	0.286	**0.34**	0.167	**0.20**	0.07	
20300	1745	1RB_Mid	Rear		22.74	23.5	0.616	**0.73**	0.342	**0.41**	0.12	
20300	1745	1RB_Mid	Left	/	22.74	23.5	0.092	**0.11**	0.057	**0.07**	0.03	
20300	1745	1RB_Mid	Right	/	22.74	23.5	0.07	**0.08**	0.044	**0.05**	0.09	
20300	1745	1RB_Mid	Bottom	Fig.14	22.74	23.5	0.728	**0.87**	0.393	**0.47**	0.15	
20175	1732.5	1RB_Mid	Bottom	/	22.71	23.5	0.714	**0.86**	0.39	**0.47**	0.13	
20050	1720	1RB_Mid	Bottom	/	22.7	23.5	0.709	**0.85**	0.388	**0.47**	-0.14	
20050	1720	50RB_Low	Front	/	22.02	22.5	0.234	**0.26**	0.136	**0.15**	-0.09	
20050	1720	50RB_Low	Rear		22.02	22.5	0.505	**0.56**	0.276	**0.31**	0.18	
20050	1720	50RB_Low	Left	/	22.02	22.5	0.059	**0.07**	0.037	**0.04**	-0.13	
20050	1720	50RB_Low	Right	/	22.02	22.5	0.054	**0.06**	0.035	**0.04**	-0.13	
20050	1720	50RB_Low	Bottom		22.02	22.5	0.578	**0.65**	0.311	**0.35**	-0.06	
20050	1720	100RB	Bottom	/	22.04	22.5	0.557	**0.62**	0.305	**0.34**	-0.04	
20300	1745	1RB_Mid	Bottom	B2	22.74	23.5	0.687	**0.82**	0.356	**0.42**	-0.05	
20300	1745	1RB_Mid	Bottom	S2	22.74	23.5	0.701	**0.84**	0.376	**0.45**	0.02	

Note1: The distance between the EUT and the phantom bottom is 10mm.
Note2: The LTE mode is QPSK_20MHz.

Table 14.1-15: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20600	844	1RB_High	Left	Cheek	/	22.67	24	0.114	**0.15**	0.087	**0.12**	0.09
20600	844	1RB_High	Left	Tilt	/	22.67	24	0.078	**0.11**	0.062	**0.08**	0.01
20600	844	1RB_High	Right	Cheek	Fig.15	22.67	24	0.12	**0.16**	0.093	**0.13**	0.08
20600	844	1RB_High	Right	Tilt	/	22.67	24	0.089	**0.12**	0.071	**0.10**	-0.07
20600	844	25RB_Mid	Left	Cheek	/	22.37	23	0.088	**0.10**	0.066	**0.08**	0.00
20600	844	25RB_Mid	Left	Tilt	/	22.37	23	0.061	**0.07**	0.048	**0.06**	0.13
20600	844	25RB_Mid	Right	Cheek	/	22.37	23	0.09	**0.10**	0.071	**0.08**	-0.17
20600	844	25RB_Mid	Right	Tilt	/	22.37	23	0.066	**0.08**	0.052	**0.06**	-0.08
20600	844	1RB_High	Right	Cheek	B2	22.67	24	0.089	**0.12**	0.062	**0.08**	0.05
20600	844	1RB_High	Right	Cheek	S2	22.67	24	0.085	**0.12**	0.061	**0.08**	0.07

Note: The LTE mode is QPSK_10MHz.

Table 14.1-16: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20600	844	1RB_High	Front	/	22.67	24	0.099	**0.13**	0.093	**0.13**	0.03
20600	844	1RB_High	Rear	Fig.16	22.67	24	0.159	**0.22**	0.121	**0.16**	0.10
20600	844	1RB_High	Left	/	22.67	24	0.082	**0.11**	0.07	**0.10**	0.16
20600	844	1RB_High	Right	/	22.67	24	0.101	**0.14**	0.086	**0.12**	0.07
20600	844	1RB_High	Bottom	/	22.67	24	0.074	**0.10**	0.049	**0.07**	0.04
20600	844	25RB_Mid	Front	/	22.37	23	0.073	**0.08**	0.068	**0.08**	0.17
20600	844	25RB_Mid	Rear	/	22.37	23	0.112	**0.13**	0.086	**0.10**	0.03
20600	844	25RB_Mid	Left	/	22.37	23	0.067	**0.08**	0.057	**0.07**	0.08
20600	844	25RB_Mid	Right	/	22.37	23	0.079	**0.09**	0.066	**0.08**	0.02
20600	844	25RB_Mid	Bottom	/	22.37	23	0.056	**0.06**	0.036	**0.04**	-0.10
20600	844	1RB_High	Rear	B2	22.67	24	0.142	**0.19**	0.103	**0.14**	0.06
20600	844	1RB_High	Rear	S2	22.67	24	0.151	**0.21**	0.112	**0.15**	0.02

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-17: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21100	2535	1RB_Mid	Left	Cheek	Fig.17	22.73	23.2	0.128	**0.14**	0.068	**0.08**	-0.01
21100	2535	1RB_Mid	Left	Tilt	/	22.73	23.2	0.094	**0.10**	0.048	**0.05**	0.05
21100	2535	1RB_Mid	Right	Cheek	/	22.73	23.2	0.095	**0.11**	0.049	**0.05**	-0.08
21100	2535	1RB_Mid	Right	Tilt	/	22.73	23.2	0.046	**0.05**	0.025	**0.03**	-0.06
21100	2535	50RB_High	Left	Cheek	/	21.63	22.2	0.108	**0.12**	0.057	**0.06**	-0.14
21100	2535	50RB_High	Left	Tilt	/	21.63	22.2	0.08	**0.09**	0.041	**0.05**	0.15
21100	2535	50RB_High	Right	Cheek	/	21.63	22.2	0.081	**0.09**	0.041	**0.05**	-0.02
21100	2535	50RB_High	Right	Tilt	/	21.63	22.2	0.045	**0.05**	0.026	**0.03**	0.06
21100	2535	1RB_Mid	Left	Cheek	B2	22.73	23.2	0.108	**0.12**	0.054	**0.06**	-0.07
21100	2535	1RB_Mid	Left	Cheek	S2	22.73	23.2	0.112	**0.12**	0.061	**0.07**	0.05

Note: The LTE mode is QPSK_20MHz.

Table 14.1-18: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21100	2535	1RB_Mid	Front	/	22.73	23.2	0.324	**0.36**	0.173	**0.19**	0.09
21100	2535	1RB_Mid	Rear	/	22.73	23.2	0.455	**0.51**	0.23	**0.26**	-0.03
21100	2535	1RB_Mid	Left	/	22.73	23.2	0.156	**0.17**	0.086	**0.10**	-0.17
21100	2535	1RB_Mid	Right	/	22.73	23.2	0.114	**0.13**	0.065	**0.07**	-0.03
21100	2535	1RB_Mid	Bottom	Fig.18	22.73	23.2	0.55	**0.61**	0.273	**0.30**	0.02
21100	2535	50RB_High	Front	/	21.63	22.2	0.271	**0.22**	0.145	**0.17**	-0.18
21100	2535	50RB_High	Rear	/	21.63	22.2	0.379	**0.43**	0.193	**0.22**	-0.11
21100	2535	50RB_High	Left	/	21.63	22.2	0.132	**0.11**	0.073	**0.08**	-0.09
21100	2535	50RB_High	Right	/	21.63	22.2	0.099	**0.11**	0.057	**0.06**	-0.05
21100	2535	50RB_High	Bottom	/	21.63	22.2	0.45	**0.51**	0.224	**0.26**	-0.08
21100	2535	1RB_Mid	Bottom	B2	22.73	23.2	0.45	**0.50**	0.235	**0.26**	0.05
21100	2535	1RB_Mid	Bottom	S2	22.73	23.2	0.38	**0.42**	0.197	**0.22**	0.07

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-19: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23130	711	1RB_Mid	Left	Cheek	/	23.26	24	0.076	**0.09**	0.059	**0.07**	0.10
23130	711	1RB_Mid	Left	Tilt	/	23.26	24	0.057	**0.07**	0.044	**0.05**	-0.10
23130	711	1RB_Mid	Right	Cheek	Fig.19	23.26	24	0.082	**0.10**	0.064	**0.08**	0.04
23130	711	1RB_Mid	Right	Tilt	/	23.26	24	0.054	**0.06**	0.043	**0.05**	-0.04
23130	711	25RB_High	Left	Cheek	/	22.99	23	0.074	**0.07**	0.058	**0.06**	-0.13
23130	711	25RB_High	Left	Tilt	/	22.99	23	0.054	**0.05**	0.043	**0.04**	0.15
23130	711	25RB_High	Right	Cheek	/	22.99	23	0.079	**0.08**	0.06	**0.06**	0.10
23130	711	25RB_High	Right	Tilt	/	22.99	23	0.058	**0.06**	0.046	**0.05**	0.18
23130	711	1RB_Mid	Right	Cheek	B2	23.26	24	0.066	**0.08**	0.048	**0.06**	0.02
23130	711	1RB_Mid	Right	Cheek	S2	23.26	24	0.071	**0.08**	0.052	**0.06**	0.06

Note: The LTE mode is QPSK_10MHz.

Table 14.1-20: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23130	711	1RB_Mid	Front	/	23.26	24	0.063	**0.07**	0.049	**0.06**	-0.14
23130	711	1RB_Mid	Rear	/	23.26	24	0.085	**0.10**	0.05	**0.06**	-0.12
23130	711	1RB_Mid	Left	/	23.26	24	0.074	**0.09**	0.051	**0.06**	0.17
23130	711	1RB_Mid	Right	/	23.26	24	0.086	**0.10**	0.053	**0.06**	-0.09
23130	711	1RB_Mid	Bottom	/	23.26	24	<0.01	**<0.01**	<0.01	**<0.01**	-0.01
23130	711	25RB_High	Front	/	22.99	23	0.067	**0.07**	0.052	**0.05**	-0.01
23130	711	25RB_High	Rear	Fig.20	22.99	23	0.113	**0.11**	0.086	**0.09**	0.08
23130	711	25RB_High	Left	/	22.99	23	0.074	**0.07**	0.052	**0.05**	0.03
23130	711	25RB_High	Right	/	22.99	23	0.104	**0.10**	0.073	**0.07**	0.15
23130	711	25RB_High	Bottom	/	22.99	23	<0.01	**<0.01**	<0.01	**<0.01**	-0.14
23130	711	25RB_High	Rear	B2	22.99	23	0.089	**0.09**	0.056	**0.06**	0.04
23130	711	25RB_High	Rear	S2	22.99	23	0.073	**0.07**	0.051	**0.05**	0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-21: SAR Values (LTE Band28 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
27460	728	1RB_Mid	Left	Cheek	/	23.04	24	0.059	**0.07**	0.042	**0.05**	0.15
27460	728	1RB_Mid	Left	Tilt	/	23.04	24	<0.01	**<0.01**	<0.01	**<0.01**	-0.17
27460	728	1RB_Mid	Right	Cheek	Fig.21	23.04	24	0.064	**0.08**	0.049	**0.06**	0.06
27460	728	1RB_Mid	Right	Tilt	/	23.04	24	<0.01	**<0.01**	<0.01	**<0.01**	0.04
27460	728	50RB_Mid	Left	Cheek	/	22.6	23	<0.01	**<0.01**	<0.01	**<0.01**	0.13
27460	728	50RB_Mid	Left	Tilt	/	22.6	23	<0.01	**<0.01**	<0.01	**<0.01**	-0.11
27460	728	50RB_Mid	Right	Cheek	/	22.6	23	<0.01	**<0.01**	<0.01	**<0.01**	-0.09
27460	728	50RB_Mid	Right	Tilt	/	22.6	23	<0.01	**<0.01**	<0.01	**<0.01**	0.07
27460	728	1RB_Mid	Right	Cheek	B2	23.04	24	0.034	**0.04**	0.028	**0.03**	0.04
27460	728	1RB_Mid	Right	Cheek	S2	23.04	24	0.051	**0.06**	0.039	**0.05**	-0.06

Note: The LTE mode is QPSK_20MHz.

Table 14.1-22: SAR Values (LTE Band28 - Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
27460	728	1RB_Mid	Front	/	23.04	24	0.066	**0.08**	0.051	**0.06**	-0.01
27460	728	1RB_Mid	Rear	Fig.22	23.04	24	0.112	**0.14**	0.085	**0.11**	-0.04
27460	728	1RB_Mid	Left	/	23.04	24	0.076	**0.09**	0.054	**0.07**	0.10
27460	728	1RB_Mid	Right	/	23.04	24	0.103	**0.13**	0.072	**0.09**	0.14
27460	728	1RB_Mid	Bottom	/	23.04	24	<0.01	**<0.01**	<0.01	**<0.01**	-0.02
27460	728	50RB_Mid	Front	/	22.6	23	0.049	**0.05**	0.038	**0.04**	0.17
27460	728	50RB_Mid	Rear	/	22.6	23	0.083	**0.09**	0.062	**0.07**	-0.09
27460	728	50RB_Mid	Left	/	22.6	23	0.056	**0.06**	0.039	**0.04**	-0.15
27460	728	50RB_Mid	Right	/	22.6	23	0.075	**0.08**	0.052	**0.06**	0.14
27460	728	50RB_Mid	Bottom	/	22.6	23	<0.01	**<0.01**	<0.01	**<0.01**	0.08
27460	728	1RB_Mid	Rear	B2	23.04	24	0.054	**0.07**	0.038	**0.05**	-0.04
27460	728	1RB_Mid	Rear	S2	23.04	24	0.062	**0.08**	0.041	**0.05**	-0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

14.2 SAR results for Standard procedure

There is zoom scan measurement to be added for the highest measured SAR in each exposure configuration/band.

Table 14.2-1: SAR Values (GSM 850 MHz Band - Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	Right	Cheek	Fig.1	27.12	28.5	0.206	**0.28**	0.16	**0.22**	-0.05

Note: the head SAR of GSM850 is tested with GPRS (4Txslots) mode because of VoIP.

Table 14.2-2: SAR Values (GSM 850 MHz Band - Body)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	GPRS (4)	Rear	Fig.2	27.12	28.5	0.36	**0.49**	0.217	**0.30**	0.06

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-3: SAR Values (GSM 1900 MHz Band - Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	Left	Cheek	Fig.3	27.93	28.5	0.094	**0.11**	0.06	**0.07**	-0.03

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

Table 14.2-4: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	GPRS (2)	Bottom	Fig.4	27.53	28.5	0.505	**0.63**	0.275	**0.34**	0.01

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-5: SAR Values (WCDMA 1900 MHz Band - Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Cheek	Fig.5	23.22	23.5	0.08	**0.09**	0.05	**0.05**	0.03

Table 14.2-6: SAR Values (WCDMA 1900 MHz Band - Body)

Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C								
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9262	1852.4	Bottom	Fig.6	22.95	23.5	0.735	0.83	0.399	**0.45**	0.03

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-7: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C									
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Right	Cheek	Fig.7	22.89	23.5	0.19	0.22	0.121	**0.14**	-0.06

Table 14.2-8: SAR Values (WCDMA 1700 MHz Band - Body)

Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C								
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1513	1752.6	Bottom	Fig.8	22.89	23.5	0.961	1.11	0.524	**0.60**	0.08

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-9: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C									
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4233	846.6	Right	Cheek	Fig.9	23.31	25	0.109	0.16	0.083	**0.12**	0.10

Table 14.2-10: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C								
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Rear	Fig.10	23.31	25	0.149	0.22	0.09	**0.13**	-0.03

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-11: SAR Values (LTE Band2 - Head)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18900	1880	1RB_High	Left	Cheek	Fig.11	23.42	23.5	0.078	0.08	0.05	**0.05**	-0.17

Note: The LTE mode is QPSK_20MHz.

Table 14.2-12: SAR Values (LTE Band2 - Body)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
18900	1880	1RB_High	Bottom	Fig.12	23.42	23.5	0.604	0.62	0.326	**0.33**	-0.03	

Note1: The distance between the EUT and the phantom bottom is 10mm.
Note2: The LTE mode is QPSK_20MHz.

Table 14.2-13: SAR Values (LTE Band4 - Head)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20300	1745	1RB_Mid	Right	Cheek	Fig.13	22.74	23.5	0.089	0.11	0.057	**0.07**	-0.04

Note: The LTE mode is QPSK_20MHz.

Table 14.2-14: SAR Values (LTE Band4 - Body)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
20300	1745	1RB_Mid	Bottom	Fig.14	22.74	23.5	0.728	0.87	0.393	**0.47**	0.15	

Note1: The distance between the EUT and the phantom bottom is 10mm.
Note2: The LTE mode is QPSK_20MHz.

Table 14.2-15: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20600	844	1RB_High	Right	Cheek	Fig.15	22.67	24	0.12	**0.16**	0.093	**0.13**	0.08

Note: The LTE mode is QPSK_10MHz.

Table 14.2-16: SAR Values (LTE Band5 - Body)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
20600	844	1RB_High	Rear	Fig.16	22.67	24	0.159	**0.22**	0.121	**0.16**	0.10	

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-17: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21100	2535	1RB_Mid	Left	Cheek	Fig.17	22.73	23.2	0.128	**0.14**	0.068	**0.08**	-0.01

Note: The LTE mode is QPSK_20MHz.

Table 14.2-18: SAR Values (LTE Band7 - Body)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
21100	2535	1RB_Mid	Bottom	Fig.18	22.73	23.2	0.55	**0.61**	0.273	**0.30**	0.02	

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-19: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23130	711	1RB_Mid	Right	Cheek	Fig.19	23.26	24	0.082	**0.10**	0.064	**0.08**	0.04

Note: The LTE mode is QPSK_10MHz.

Table 14.2-20: SAR Values (LTE Band12 - Body)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
23130	711	25RB_High	Rear	Fig.20	22.99	23	0.113	**0.11**	0.086	**0.09**	0.08	

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-21: SAR Values (LTE Band28 - Head)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz											
27460	728	1RB_Mid	Right	Cheek	Fig.21	23.04	24	0.064	**0.08**	0.049	**0.06**	0.06

Note: The LTE mode is QPSK_20MHz.

Table 14.2-22: SAR Values (LTE Band28 - Body)

Ambient Temperature: 22.9 ºC								Liquid Temperature: 22.5ºC				
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
27460	728	1RB_Mid	Rear	Fig.22	23.04	24	0.112	**0.14**	0.085	**0.11**	-0.04	

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

14.3 WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

Head Evaluation

Table 14.3-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	/	18.66	19	0.622	**0.67**	0.331	**0.36**	0.01
2462	11	Left	Tilt	/	18.66	19	0.504	**0.55**	0.272	**0.29**	0.12
2462	11	Right	Touch	/	18.66	19	0.171	**0.18**	0.089	**0.10**	0.04
2462	11	Right	Tilt	/	18.66	19	0.201	**0.22**	0.099	**0.11**	-0.01
2462	11	Left	Touch	B2	18.66	19	0.589	**0.64**	0.312	**0.34**	0.06
2462	11	Left	Touch	S2	18.66	19	0.573	**0.62**	0.284	**0.31**	0.03

As shown above table, the initial test position for head is “Left Touch”. So the head SAR of WLAN is presented as below:

Table 14.3-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	Fig.23	18.66	19	0.623	**0.67**	0.320	**0.35**	0.01
2462	11	Left	Tilt	/	18.66	19	0.532	**0.58**	0.258	**0.28**	0.12

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.3-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃							
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2462	11	Left	Touch	100%	100%	**0.67**	**0.67**

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

Body Evaluation

Table 14.3-4: SAR Values (WLAN - Body)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Front	/	18.66	19	0.082	**0.09**	0.075	**0.08**	0.08
2462	11	Rear	/	18.66	19	0.151	**0.16**	0.123	**0.13**	-0.11
2462	11	Right	/	18.66	19	0.085	**0.09**	0.074	**0.08**	0.03
2462	11	Top	/	18.66	19	0.047	**0.05**	0.04	**0.04**	-0.04
2462	11	Rear	B2	18.66	19	0.123	**0.13**	0.098	**0.11**	-0.05
2462	11	Rear	S2	18.66	19	0.112	**0.12**	0.095	**0.10**	0.07

As shown above table, the initial test position for body is “Rear”. So the body SAR of WLAN is presented as below:

Table 14.3-5: SAR Values (WLAN - Body)– 802.11b (Full SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Rear	Fig.14	18.66	19	0.151	**0.16**	0.075	**0.08**	-0.11

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.3-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃						
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
2462	11	Rear	100%	100%	**0.16**	**0.16**

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.