

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

Frequency		Mode	Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz				Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
21350	2560	1RB_Mid	Front	/	20.31	20.5	0.231	0.24	0.412	0.43	0.05
21350	2560	1RB_Mid	Rear	/	20.31	20.5	0.252	0.26	0.454	0.47	0.01
21350	2560	1RB_Mid	Left	/	20.31	20.5	0.120	0.13	0.240	0.25	0.04
21350	2560	1RB_Mid	Bottom	/	20.31	20.5	0.477	0.50	0.937	0.98	0.01
21100	2535	1RB_High	Bottom	Fig.17	20.22	20.5	0.476	0.51	0.925	0.99	0.07
20850	2510	1RB_High	Bottom	/	20.28	20.5	0.517	0.54	1.00	1.06	0.11
20850	2510	50RB_Mid	Front	/	20.36	20.5	0.256	0.26	0.437	0.45	0.03
20850	2510	50RB_Mid	Rear	/	20.36	20.5	0.264	0.27	0.475	0.49	0.07
20850	2510	50RB_Mid	Left	/	20.36	20.5	0.171	0.18	0.350	0.36	0.08
21350	2560	50RB_High	Bottom	/	20.21	20.5	0.467	0.50	0.911	0.97	0.07
21100	2535	50RB_Low	Bottom	/	20.24	20.5	0.504	0.54	0.978	1.04	0.11
20850	2510	50RB_Mid	Bottom	/	20.36	20.5	0.528	0.55	1.02	1.05	0.01
20850	2510	100RB	Bottom	/	20.28	20.5	0.538	0.57	1.04	1.09	0.01

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

Note2: The LTE mode is QPSK_20MHz.

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

Frequency		Mode	Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz				Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
20850	2510	1RB_Low	Front	Fig.18	23.26	24.5	0.278	0.37	0.488	0.65	-0.02
20850	2510	1RB_Low	Rear	/	23.26	24.5	0.258	0.34	0.467	0.62	0.03
20850	2510	50RB_Low	Front	/	22.13	23.5	0.224	0.31	0.395	0.54	0.05
20850	2510	50RB_Low	Rear	/	22.13	23.5	0.206	0.28	0.372	0.51	-0.07

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

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

Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23130	711	1RB_High	Left	Touch	/	23.84	24	0.052	0.05	0.060	0.06	0.06
23130	711	1RB_High	Left	Tilt	/	23.84	24	0.023	0.02	0.033	0.03	-0.02
23130	711	1RB_High	Right	Touch	Fig.19	23.84	24	0.119	0.12	0.147	0.15	0.03
23130	711	1RB_High	Right	Tilt	/	23.84	24	0.046	0.05	0.056	0.06	-0.07
23130	711	25RB_High	Left	Touch	/	22.46	23	0.041	0.05	0.047	0.05	0.03
23130	711	25RB_High	Left	Tilt	/	22.46	23	0.018	0.02	0.026	0.03	0.01
23130	711	25RB_High	Right	Touch	/	22.46	23	0.073	0.08	0.090	0.10	0.01
23130	711	25RB_High	Right	Tilt	/	22.46	23	0.040	0.05	0.047	0.05	0.06

Note1: The LTE mode is QPSK_10MHz.

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

Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23130	711	1RB_High	Front	/	23.84	24	0.185	0.19	0.262	0.27	0.04
23130	711	1RB_High	Rear	Fig.20	23.84	24	0.200	0.21	0.281	0.29	0.02
23130	711	1RB_High	Left	/	23.84	24	0.044	0.05	0.061	0.06	0.05
23130	711	1RB_High	Right	/	23.84	24	0.092	0.10	0.131	0.14	0.09
23130	711	1RB_High	Bottom	/	23.84	24	0.059	0.06	0.118	0.12	0.12
23130	711	25RB_High	Front	/	22.46	23	0.131	0.15	0.186	0.21	-0.05
23130	711	25RB_High	Rear	/	22.46	23	0.159	0.18	0.223	0.25	0.09
23130	711	25RB_High	Left	/	22.46	23	0.034	0.04	0.049	0.06	-0.04
23130	711	25RB_High	Right	/	22.46	23	0.074	0.08	0.105	0.12	0.11
23130	711	25RB_High	Bottom	/	22.46	23	0.046	0.05	0.093	0.11	0.06

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 Band13 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23230	782	1RB_Low	Left	Touch	/	23.54	24	0.154	0.17	0.189	0.21	0.07
23230	782	1RB_Low	Left	Tilt	/	23.54	24	0.090	0.10	0.107	0.12	-0.09
23230	782	1RB_Low	Right	Touch	Fig.21	23.54	24	0.229	0.25	0.293	0.33	0.02
23230	782	1RB_Low	Right	Tilt	/	23.54	24	0.113	0.13	0.143	0.16	-0.03
23230	782	25RB_High	Left	Touch	/	22.44	23	0.116	0.13	0.142	0.16	0.02
23230	782	25RB_High	Left	Tilt	/	22.44	23	0.075	0.09	0.089	0.10	0.01
23230	782	25RB_High	Right	Touch	/	22.44	23	0.181	0.21	0.233	0.27	0.01
23230	782	25RB_High	Right	Tilt	/	22.44	23	0.090	0.10	0.115	0.13	0.05

Note1: The LTE mode is QPSK_10MHz.

Table 14.1-22: SAR Values (LTE Band13 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23230	782	1RB_Low	Front	/	23.54	24	0.248	0.28	0.393	0.44	0.02
23230	782	1RB_Low	Rear	Fig.22	23.54	24	0.284	0.32	0.446	0.50	0.05
23230	782	1RB_Low	Left	/	23.54	24	0.057	0.06	0.093	0.10	-0.13
23230	782	1RB_Low	Right	/	23.54	24	0.134	0.15	0.218	0.24	0.05
23230	782	1RB_Low	Bottom	/	23.54	24	0.095	0.11	0.199	0.22	0.09
23230	782	25RB_High	Front	/	22.44	23	0.196	0.22	0.312	0.35	0.04
23230	782	25RB_High	Rear	/	22.44	23	0.227	0.26	0.356	0.40	0.15
23230	782	25RB_High	Left	/	22.44	23	0.042	0.05	0.068	0.08	-0.09
23230	782	25RB_High	Right	/	22.44	23	0.081	0.09	0.129	0.15	0.04
23230	782	25RB_High	Bottom	/	22.44	23	0.078	0.09	0.166	0.19	-0.03

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-23: SAR Values (LTE Band30 - Head)

Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz							Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
27710	2310	1RB_High	Left	Touch	/	24.21	24.5	0.062	0.07	0.107	0.11	0.08
27710	2310	1RB_High	Left	Tilt	/	24.21	24.5	0.047	0.05	0.071	0.08	0.07
27710	2310	1RB_High	Right	Touch	Fig.23	24.21	24.5	0.093	0.10	0.165	0.18	0.08
27710	2310	1RB_High	Right	Tilt	/	24.21	24.5	0.054	0.06	0.088	0.09	-0.01
27710	2310	25RB_High	Left	Touch	/	23.06	23.5	0.048	0.05	0.084	0.09	-0.04
27710	2310	25RB_High	Left	Tilt	/	23.06	23.5	0.032	0.04	0.052	0.06	0.02
27710	2310	25RB_High	Right	Touch	/	23.06	23.5	0.057	0.06	0.101	0.11	0.07
27710	2310	25RB_High	Right	Tilt	/	23.06	23.5	0.042	0.05	0.070	0.08	0.03

Note1: The LTE mode is QPSK_10MHz.

Table 14.1-24: SAR Values (LTE Band30 - Body)

Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
27710	2310	1RB_High	Front	/	24.21	24.5	0.269	0.29	0.445	0.48	0.03
27710	2310	1RB_High	Rear	/	24.21	24.5	0.299	0.32	0.486	0.52	0.15
27710	2310	1RB_High	Left	/	24.21	24.5	0.144	0.15	0.284	0.30	0.02
27710	2310	1RB_High	Right	/	24.21	24.5	0.024	0.03	0.038	0.04	-0.04
27710	2310	1RB_High	Bottom	Fig.24	24.21	24.5	0.446	0.48	0.796	0.85	0.05
27710	2310	25RB_High	Front	/	23.06	23.5	0.209	0.23	0.345	0.38	0.11
27710	2310	25RB_High	Rear	/	23.06	23.5	0.228	0.25	0.370	0.41	-0.03
27710	2310	25RB_High	Left	/	23.06	23.5	0.110	0.12	0.217	0.24	0.05
27710	2310	25RB_High	Right	/	23.06	23.5	0.017	0.02	0.030	0.03	0.01
27710	2310	25RB_High	Bottom	/	23.06	23.5	0.332	0.37	0.591	0.65	0.02

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-25: SAR Values (LTE Band38 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
38150	2610	1RB_Mid	Left	Touch	/	23.82	24	0.036	0.04	0.067	0.07	0.09
38150	2610	1RB_Mid	Left	Tilt	/	23.82	24	0.020	0.02	0.039	0.04	0.01
38150	2610	1RB_Mid	Right	Touch	Fig.25	23.82	24	0.044	0.05	0.083	0.09	0.06
38150	2610	1RB_Mid	Right	Tilt	/	23.82	24	0.025	0.03	0.049	0.05	-0.03
38150	2610	50RB_Mid	Left	Touch	/	22.68	23	0.028	0.03	0.052	0.06	0.01
38150	2610	50RB_Mid	Left	Tilt	/	22.68	23	0.013	0.01	0.031	0.03	-0.06
38150	2610	50RB_Mid	Right	Touch	/	22.68	23	0.039	0.04	0.076	0.08	-0.04
38150	2610	50RB_Mid	Right	Tilt	/	22.68	23	0.024	0.03	0.048	0.05	0.01

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-26: SAR Values (LTE Band38 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
38150	2610	1RB_Mid	Front	/	23.82	24	0.167	0.17	0.298	0.31	0.03
38150	2610	1RB_Mid	Rear	/	23.82	24	0.183	0.19	0.323	0.34	0.12
38150	2610	1RB_Mid	Left	/	23.82	24	0.081	0.08	0.163	0.17	0.06
38150	2610	1RB_Mid	Bottom	Fig.26	23.82	24	0.345	0.36	0.672	0.70	-0.03
38150	2610	50RB_Mid	Front	/	22.68	23	0.142	0.15	0.255	0.27	0.05
38150	2610	50RB_Mid	Rear	/	22.68	23	0.146	0.16	0.260	0.28	0.15
38150	2610	50RB_Mid	Left	/	22.68	23	0.068	0.07	0.139	0.15	0.02
38150	2610	50RB_Mid	Bottom	/	22.68	23	0.282	0.30	0.550	0.59	-0.11

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

Note2: The LTE mode is QPSK_20MHz.

Table 14-1-27: SAR Values (LTE Band 40-Head)

Frequency		Mode	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
38750	2310	1RB_High	Left	Touch	/	24.24	24.5	0.020	0.02	0.036	0.04	0.05
38750	2310	1RB_High	Left	Tilt	/	24.24	24.5	0.009	0.01	0.018	0.02	0.04
38750	2310	1RB_High	Right	Touch	Fig.27	24.24	24.5	0.026	0.03	0.049	0.05	0.09
38750	2310	1RB_High	Right	Tilt	/	24.24	24.5	0.013	0.01	0.026	0.03	0.03
38750	2310	50RB_High	Left	Touch	/	22.77	23.5	0.013	0.02	0.026	0.03	-0.06
38750	2310	50RB_High	Left	Tilt	/	22.77	23.5	0.006	0.01	0.012	0.01	0.02
38750	2310	50RB_High	Right	Touch	/	22.77	23.5	0.016	0.02	0.033	0.04	0.03
38750	2310	50RB_High	Right	Tilt	/	22.77	23.5	0.009	0.01	0.018	0.02	0.06

Note1: The LTE mode is QPSK_20MHz.

Table 14-1-28: SAR Values (LTE Band 40-Body)

Frequency		Mode	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
38750	2310	1RB_High	Front	/	24.24	24.5	0.123	0.13	0.206	0.22	0.06
38750	2310	1RB_High	Rear	/	24.24	24.5	0.177	0.19	0.313	0.33	0.12
38750	2310	1RB_High	Left	/	24.24	24.5	0.067	0.07	0.134	0.14	0.03
38750	2310	1RB_High	Bottom	Fig.28	24.24	24.5	0.213	0.23	0.389	0.41	-0.04
38750	2310	50RB_High	Front	/	22.77	23.5	0.094	0.11	0.156	0.18	0.06
38750	2310	50RB_High	Rear	/	22.77	23.5	0.138	0.16	0.244	0.29	0.09
38750	2310	50RB_High	Left	/	22.77	23.5	0.056	0.07	0.112	0.13	0.06
38750	2310	50RB_High	Bottom	/	22.77	23.5	0.148	0.18	0.270	0.32	0.06

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-29: SAR Values (LTE Band41 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
41490	2680	1RB_High	Left	Touch	/	23.79	24	0.028	0.03	0.053	0.06	-0.12
41490	2680	1RB_High	Left	Tilt	/	23.79	24	0.016	0.02	0.026	0.03	0.05
41490	2680	1RB_High	Right	Touch	Fig.29	23.79	24	0.041	0.04	0.080	0.08	0.04
41490	2680	1RB_High	Right	Tilt	/	23.79	24	0.025	0.03	0.048	0.05	-0.08
41490	2680	50RB_Mid	Left	Touch	/	22.68	23	0.020	0.02	0.035	0.04	0.05
41490	2680	50RB_Mid	Left	Tilt	/	22.68	23	0.012	0.01	0.020	0.02	0.02
41490	2680	50RB_Mid	Right	Touch	/	22.68	23	0.032	0.03	0.061	0.07	0.01
41490	2680	50RB_Mid	Right	Tilt	/	22.68	23	0.019	0.02	0.032	0.03	-0.14

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-30: SAR Values (LTE Band41 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
41490	2680	1RB_High	Front	/	23.79	24	0.186	0.20	0.345	0.36	0.13
41490	2680	1RB_High	Rear	/	23.79	24	0.278	0.29	0.446	0.47	0.14
41490	2680	1RB_High	Left	/	23.79	24	0.083	0.09	0.175	0.18	0.05
41490	2680	1RB_High	Bottom	/	23.79	24	0.399	0.42	0.804	0.84	0.07
41055	2636.5	1RB_High	Bottom	/	23.42	24	0.390	0.45	0.778	0.89	-0.02
40620	2593	1RB_High	Bottom	/	23.01	24	0.356	0.45	0.702	0.88	-0.09
40185	2549.5	1RB_High	Bottom	/	22.56	24	0.387	0.54	0.757	1.05	0.06
39750	2506	1RB_High	Bottom	Fig.30	22.58	24	0.443	0.61	0.853	1.18	-0.14
41490	2680	50RB_Mid	Front	/	22.68	23	0.151	0.16	0.280	0.30	0.13
41490	2680	50RB_Mid	Rear	/	22.68	23	0.172	0.19	0.319	0.34	0.09
41490	2680	50RB_Mid	Left	/	22.68	23	0.073	0.08	0.158	0.17	0.02
41490	2680	50RB_Mid	Bottom	/	22.68	23	0.289	0.31	0.586	0.63	0.01
41490	2680	100RB	Bottom	/	22.43	23	0.311	0.35	0.629	0.72	0.06

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-31: SAR Values (LTE band66 - Head)

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132072	1720	1RB_Low	Left	Touch	Fig.31	23.95	24	0.194	0.20	0.287	0.29	-0.12
132072	1720	1RB_Low	Left	Tilt	/	23.95	24	0.053	0.05	0.078	0.08	0.05
132072	1720	1RB_Low	Right	Touch	/	23.95	24	0.135	0.14	0.203	0.21	0.04
132072	1720	1RB_Low	Right	Tilt	/	23.95	24	0.069	0.07	0.102	0.10	-0.08
132072	1720	50RB_Low	Left	Touch	/	22.98	23	0.152	0.15	0.228	0.23	0.05
132072	1720	50RB_Low	Left	Tilt	/	22.98	23	0.037	0.04	0.049	0.05	0.02
132072	1720	50RB_Low	Right	Touch	/	22.98	23	0.110	0.11	0.165	0.17	0.01
132072	1720	50RB_Low	Right	Tilt	/	22.98	23	0.053	0.05	0.078	0.08	-0.14

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-32: SAR Values (LTE band66 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132572	1770	1RB_Low	Front	Fig.32	22.49	22.5	0.543	0.54	0.921	0.92	-0.14
132322	1745	1RB_High	Front	/	22.29	22.5	0.496	0.52	0.828	0.87	0.05
132072	1720	1RB_Low	Front	/	22.46	22.5	0.534	0.54	0.900	0.91	0.07
132572	1770	1RB_Low	Rear	/	22.49	22.5	0.374	0.37	0.653	0.65	0.03
132572	1770	1RB_Low	Left	/	22.49	22.5	0.034	0.03	0.053	0.05	0.04
132572	1770	1RB_Low	Right	/	22.49	22.5	0.093	0.09	0.198	0.20	-0.02
132572	1770	1RB_Low	Bottom	/	22.49	22.5	0.390	0.39	0.699	0.70	-0.12
132072	1720	50RB_Low	Front	/	21.70	22.5	0.323	0.39	0.580	0.70	-0.04
132072	1720	50RB_Low	Rear	/	21.70	22.5	0.274	0.33	0.513	0.62	-0.01
132072	1720	50RB_Low	Left	/	21.70	22.5	0.032	0.04	0.055	0.07	-0.15
132072	1720	50RB_Low	Right	/	21.70	22.5	0.061	0.07	0.128	0.15	0.06
132072	1720	50RB_Low	Bottom	/	21.70	22.5	0.321	0.39	0.588	0.71	-0.01
132072	1720	100RB	Front	/	21.60	22.5	0.338	0.42	0.603	0.74	0.09

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-33: SAR Values (LTE band66 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Front	Fig.33	23.95	24	0.476	0.48	0.749	0.76	-0.02
132072	1720	1RB_Low	Rear	/	23.95	24	0.374	0.38	0.592	0.60	-0.06
132072	1720	50RB_Low	Front	/	22.98	23	0.390	0.39	0.612	0.61	-0.02
132072	1720	50RB_Low	Rear	/	22.98	23	0.290	0.29	0.458	0.46	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°C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
128	824.2	Right	Touch	Fig.1	29.95	30.5	0.434	0.49	0.558	0.63	-0.05

Note: the head SAR of GSM850 is tested with GPRS (3Txslots) mode because of VoIP.

Table 14.2-2: 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
128	824.2	GPRS (3)	Front	Fig.2	29.95	30.5	0.724	0.82	1.03	1.17	0.04

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°C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
512	1850.2	Left	Touch	Fig.3	27.26	28	0.117	0.14	0.178	0.21	0.01

Note: the head SAR of GSM1900 is tested with GPRS (4Txslots) mode because of VoIP.

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

Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
		Ambient Temperature: 22.9°C					Liquid Temperature: 22.5°C					
661	1880	GPRS (4)	Front	Fig.4	27.53	28	0.544	0.61	0.936	1.04	-0.09	

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

Table 14.2-5: SAR Values (WCDMA 850 MHz Band - Head)

Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
		Ambient Temperature: 22.9°C					Liquid Temperature: 22.5°C					
4233	846.6	Right	Touch	Fig.5	23.86	24	0.250	0.26	0.329	0.34	-0.08	

Table 14.2-6: SAR Values (WCDMA 850 MHz Band - Body)

Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
		Ambient Temperature: 22.9°C					Liquid Temperature: 22.5°C				
4233	846.6	Rear	Fig.6	23.86	24	0.529	0.55	0.758	0.78	-0.06	

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

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

Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
		Ambient Temperature: 22.9°C					Liquid Temperature: 22.5°C					
1537	1712.4	Left	Touch	Fig.7	23.68	24	0.164	0.18	0.237	0.26	0.17	

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

Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
		Ambient Temperature: 22.9°C					Liquid Temperature: 22.5°C				
1738	1752.6	Front	Fig.8	21.88	22.5	0.562	0.65	0.960	1.11	-0.10	

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

Table 14.2-9: SAR Values (WCDMA 1700 MHz Band - Body)

Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
1537	1712.4	Front	Fig.9	23.68	24	0.468	0.50	0.759	0.82	-0.17

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.2-10: SAR Values (WCDMA 1900 MHz Band - Head)

Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
9938	1907.6	Left	Touch	Fig.10	24.24	24.5	0.095	0.10	0.138	0.15	0.18

Table 14.2-11: SAR Values (WCDMA 1900 MHz Band - Body)

Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
9662	1852.4	Front	Fig.11	24.35	24.5	0.708	0.73	1.22	1.26	-0.08

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

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

Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz							Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
19100	1900	1RB_Low	Left	Touch	Fig.12	23.76	24	0.108	0.11	0.163	0.17	0.01

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-13: SAR Values (LTE Band2 - Body)

Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
19100	1900	1RB_Low	Rear	Fig.13	23.76	24	0.444	0.47	0.761	0.80	0.09

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-14: SAR Values (LTE Band5 - Head)

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_High	Right	Touch	Fig.14	23.72	24	0.310	0.33	0.407	0.43	0.18

Note1: The LTE mode is QPSK_10MHz.

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

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_High	Rear	Fig.15	23.72	24	0.461	0.49	0.641	0.68	-0.03

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-16: 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20850	2510	1RB_Low	Right	Touch	Fig.16	23.26	24.5	0.183	0.24	0.347	0.46	0.07

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-17: 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20850	2510	100RB	Bottom	/	20.28	20.5	0.538	0.57	1.04	1.09	0.01

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-18: 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20850	2510	1RB_Low	Front	Fig.18	23.26	24.5	0.278	0.37	0.488	0.65	-0.02

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

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

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz											
23130	711	1RB_High	Right	Touch	Fig.19	23.84	24	0.119	0.12	0.147	0.15	0.03

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-20: SAR Values (LTE Band12 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23130	711	1RB_High	Rear	Fig.20	23.84	24	0.200	0.21	0.281	0.29	0.02

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 Band13 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23230	782	1RB_Low	Right	Touch	Fig.21	23.54	24	0.229	0.25	0.293	0.33	0.02

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-22: SAR Values (LTE Band13 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23230	782	1RB_Low	Rear	Fig.22	23.54	24	0.284	0.32	0.446	0.50	0.05

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-23: SAR Values (LTE Band30 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
27710	2310	1RB_High	Right	Touch	Fig.23	24.21	24.5	0.093	0.10	0.165	0.18	0.08

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-24: SAR Values (LTE Band30 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
27710	2310	1RB_High	Bottom	Fig.24	24.21	24.5	0.446	0.48	0.796	0.85	0.05

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-25: SAR Values (LTE Band38 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
38150	2610	1RB_Mid	Right	Touch	Fig.25	23.82	24	0.044	0.05	0.083	0.09	0.06

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-26: SAR Values (LTE Band38 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
38150	2610	1RB_Mid	Bottom	Fig.26	23.82	24	0.345	0.36	0.672	0.70	-0.03

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

Note2: The LTE mode is QPSK_20MHz.

Table 14-2-27: SAR Values (LTE Band 40-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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
38750	2310	1RB_High	Right	Touch	Fig.27	24.24	24.5	0.026	0.03	0.049	0.05	0.09

Note1: The LTE mode is QPSK_20MHz.

Table 14-2-28: SAR Values (LTE Band 40-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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
38750	2310	1RB_High	Bottom	Fig.28	24.24	24.5	0.213	0.23	0.389	0.41	-0.04

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-29: SAR Values (LTE Band41 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
41490	2680	1RB_High	Right	Touch	Fig.29	23.79	24	0.041	0.04	0.080	0.08	0.04

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-30: SAR Values (LTE Band41 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
39750	2506	1RB_High	Bottom	Fig.30	22.58	24	0.443	0.61	0.853	1.18	-0.14

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-31: SAR Values (LTE band66 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132072	1720	1RB_Low	Left	Touch	Fig.31	23.95	24	0.194	0.20	0.287	0.29	-0.12

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-32: SAR Values (LTE band66 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132572	1770	1RB_Low	Front	Fig.32	22.49	22.5	0.543	0.54	0.921	0.92	-0.14

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-33: SAR Values (LTE band66 - 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(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
132072	1720	1RB_Low	Front	Fig.33	23.95	24	0.476	0.48	0.749	0.76	-0.02

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)

Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)	
MHz	Ch.											
		Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C				
2437	6	Left	Touch	/	14.23	14.5	0.397	0.42	0.869	0.92	-0.19	
2437	6	Left	Tilt	/	14.23	14.5	0.431	0.46	0.932	0.99	0.06	
2437	6	Right	Touch	/	14.23	14.5	0.229	0.24	0.484	0.52	-0.19	
2437	6	Right	Tilt	/	14.23	14.5	0.245	0.26	0.530	0.56	-0.07	

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

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

Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)	
MHz	Ch.											
		Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C				
2437	6	Left	Tilt	Fig.34	14.23	14.5	0.435	0.46	1.06	1.13	0.06	
2437	6	Left	Touch	/	14.23	14.5	0.400	0.43	0.957	1.02	-0.19	
2437	6	Right	Tilt	/	14.23	14.5	0.256	0.27	0.582	0.62	-0.07	
2462	11	Left	Tilt	/	13.88	14.5	0.307	0.35	0.779	0.90	0.07	
2462	11	Left	Touch	/	13.88	14.5	0.270	0.31	0.677	0.78	0.07	

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 \leq 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 \leq 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)

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)		
MHz	Ch.								
		Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C	
2437	6	Left	Tilt	97.63%	100%	1.13	1.16		
2437	6	Left	Touch	97.63%	100%	1.02	1.04		

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

Body Evaluation

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

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5 °C				Power Drift (dB)
MHz	Ch.			Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	
2437	6	Front	/	18.50	19	0.144	0.16	0.268	0.30	0.09
2437	6	Rear	/	18.50	19	0.130	0.15	0.256	0.29	0.19
2437	6	Right	/	18.50	19	0.053	0.06	0.109	0.12	-0.11
2437	6	Top	/	18.50	19	0.204	0.23	0.435	0.49	-0.03

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

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

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5 °C				Power Drift (dB)
MHz	Ch.			Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	
2437	6	Top	Fig.35	18.50	19	0.228	0.26	0.463	0.52	-0.03

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.

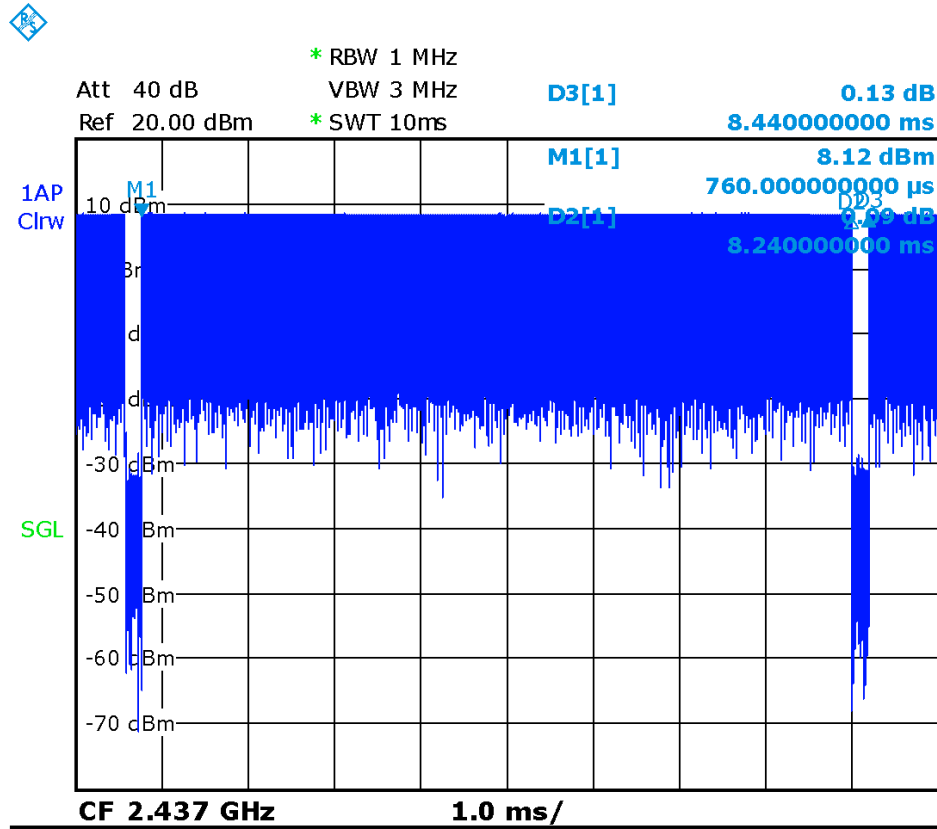
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg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

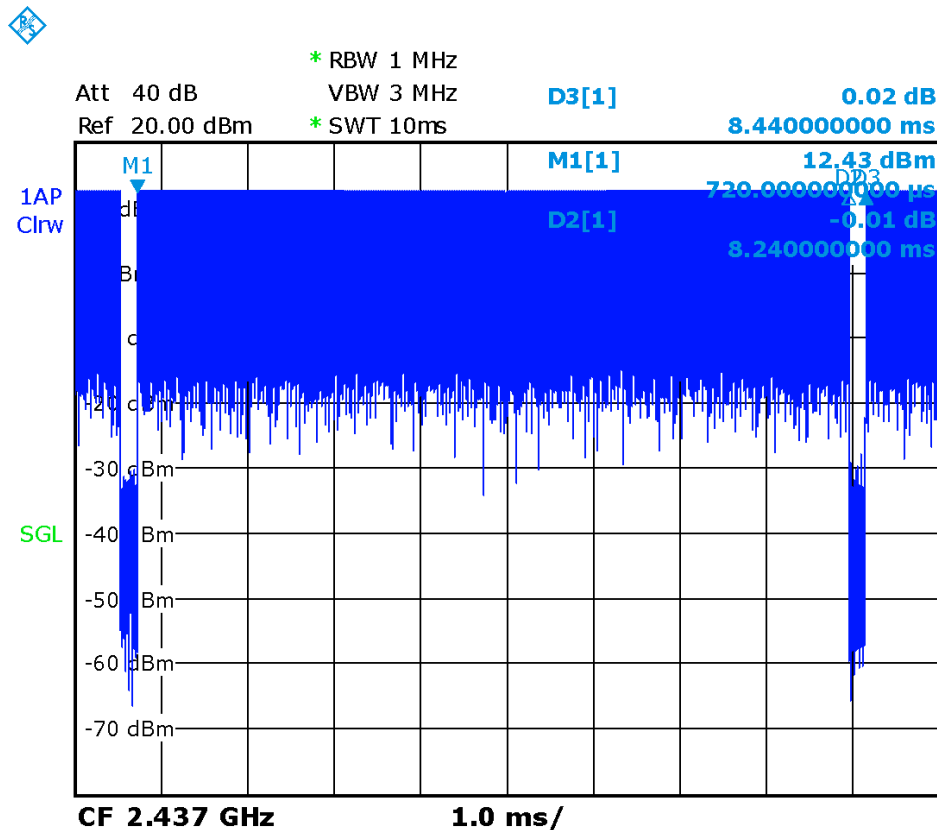
Table 14.3-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5 °C	
MHz	Ch.		Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
2437	6	Front	97.63%	100%	0.30	0.31
2437	6	Top	97.63%	100%	0.52	0.53

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



Picture 14.1 Duty factor plot for head



Picture 14.2 Duty factor plot for body

14.4 WLAN Evaluation For 5G

Table 14.4-1: OFDM mode specified maximum output power of WLAN antenna

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	X		X	X	X	X	X	
U-NII-2A	X		X	X	X	X	X	
U-NII-2C	X		X	X	X	X	X	
U-NII-3	X		X	X	X	X	X	
§ 15.247 (5.8 GHz)								

X: maximum(conducted) output power(mW), including tolerance, specified for production units

Table 14.4-2: Maximum output power specified of WLAN antenna

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	25		20	13	16	10	7	
U-NII-2A	25		20	13	16	10	7	
U-NII-2C	16		13	10	11	8	4	
U-NII-3	20		16	18	13	14	7	
§ 15.247 (5.8 GHz)								

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The **blue highlighted** cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

Table 14.4-3: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 18/19/21/22	36/40/44/48 Lower power	38/46 Lower power	36/40/44/48 Lower power	38/46 Lower power	42 Lower power
U-NII-2A	52/56/60/64 23/19/20/19	52/56/60/64 Lower power	54/62 Lower power	52/56/60/64 Lower power	54/62 Lower power	58 Lower power
U-NII-2C	100/104/108/112 13/13/14/15 116/120/124/128 15/15/14/12 132/136/140/144 11/10/11/13	100/104/108/112 116/132/136/140 Lower power	102/110/134 Lower power	100/104/108 /112 116/132/136/ 140 Lower power	102/110/134 Lower power	106 Lower power
U-NII-3	149/153/157/161/165 16/18/16/14/13	149/153/157/16 1/165 Lower power	151/159 Lower power	149/153/157 /161/165 Lower power	151/159 Lower power	155 Lower power

- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are **highlighted in yellow**.

Table 14.4-4: Reported SAR of initial test configuration for Head

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 U-NII-2A exclusion applied	36/40/44/48	38/46	36/40/44/48	38/46	42
U-NII-2A	52/56/60/64 0.95 / 0.94	52/56/60/64	54/62	52/56/60/64	54/62	58
U-NII-2C	100/104/108/112/116/120/124/128/132/136/140/144 0.92 / 0.95	100/104/108/112/116/132/136/140	102/110/118/126/134	100/104/108/112/116/132/136/140	102/110/134	106
U-NII-3	149/153/157/161/165 0.73	149/153/157/161/165	151/159	149/153/157/161/165	151/159	155

U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band. Initial test configuration SAR for U-NII-2A band is > 0.8 W/kg, SAR is required for next highest output channel in initial test configuration. The next highest output channel SAR is ≤ 1.2 W/kg, SAR is not required for subsequent next highest output channel. Similar circumstances apply to U-NII-2C band and U-NII-3 band. The green highlighted channels are next highest measured output channel in the initial test configuration. Highest measured output power channel tested initially are in yellow highlight.

Table 14.4-5: Reported SAR of initial test configuration for Body

802.11 mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 U-NII-2A exclusion applied	36/40/44/48	38/46	36/40/44/48	38/46	42
U-NII-2A	52/56/60/64 0.05	52/56/60/64	54/62	52/56/60/64	54/62	58
U-NII-2C	100/104/108/112/116/120/124/128/132/136/140/144 0.16	100/104/108/112/116/132/136/140	102/110/118/126/134	100/104/108/112/116/132/136/140	102/110/134	106
U-NII-3	149/153/157/161/165 0.16	149/153/157/161/165	151/159	149/153/157/161/165	151/159	155

U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band. Highest measured output power channel tested initially are in yellow highlight.

Table 14.4-6: SAR Values (WLAN - Head) – 802.11a 6Mbps

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
5260	52	Left	Touch	/	13.64	14	0.169	0.18	0.646	0.70	0.08
5260	52	Left	Tilt	/	13.64	14	0.176	0.19	0.661	0.72	-0.02
5260	52	Right	Touch	/	13.64	14	0.186	0.20	0.710	0.77	-0.09
5260	52	Right	Tilt	/	13.64	14	0.231	0.25	0.767	0.83	-0.17
5300	60	Right	Tilt	/	13.01	14	0.192	0.24	0.655	0.82	-0.02
5600	120	Left	Touch	/	11.81	12	0.216	0.23	0.765	0.80	0.05
5600	120	Left	Tilt	/	11.81	12	0.197	0.21	0.670	0.70	-0.01
5600	120	Right	Touch	/	11.81	12	0.204	0.21	0.701	0.73	0.02
5600	120	Right	Tilt	Fig.36	11.81	12	0.225	0.24	0.796	0.83	-0.16
5580	116	Right	Tilt	/	11.87	12	0.182	0.19	0.781	0.80	-0.06
5765	153	Left	Touch	/	12.45	13	0.134	0.15	0.436	0.49	0.15
5765	153	Left	Tilt	/	12.45	13	0.138	0.16	0.407	0.46	-0.05
5765	153	Right	Touch	/	12.45	13	0.132	0.15	0.439	0.50	0.02
5765	153	Right	Tilt	/	12.45	13	0.153	0.17	0.561	0.64	-0.07

Table 14.4-7: SAR Values (WLAN - Body) – 802.11a 6Mbps

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
5260	52	Front	/	13.64	14	0.008	0.01	0.024	0.03	0.01
5260	52	Rear	/	13.64	14	0.020	0.02	0.038	0.04	0.01
5260	52	Right	/	13.64	14	< 0.01	< 0.01	< 0.01	< 0.01	-0.08
5260	52	Top	/	13.64	14	0.016	0.02	0.018	0.02	-0.01
5600	120	Front	/	11.81	12	0.024	0.03	0.081	0.09	0.09
5600	120	Rear	/	11.81	12	0.039	0.04	0.116	0.12	-0.05
5600	120	Right	/	11.81	12	0.016	0.02	0.045	0.05	0.05
5600	120	Top	Fig.37	11.81	12	0.045	0.05	0.132	0.14	0.09
5765	153	Front	/	12.45	13	0.024	0.03	0.081	0.09	0.05
5765	153	Rear	/	12.45	13	0.033	0.04	0.098	0.11	0.05
5765	153	Right	/	12.45	13	0.009	0.01	0.029	0.03	-0.01
5765	153	Top	/	12.45	13	0.041	0.05	0.124	0.14	0.06

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

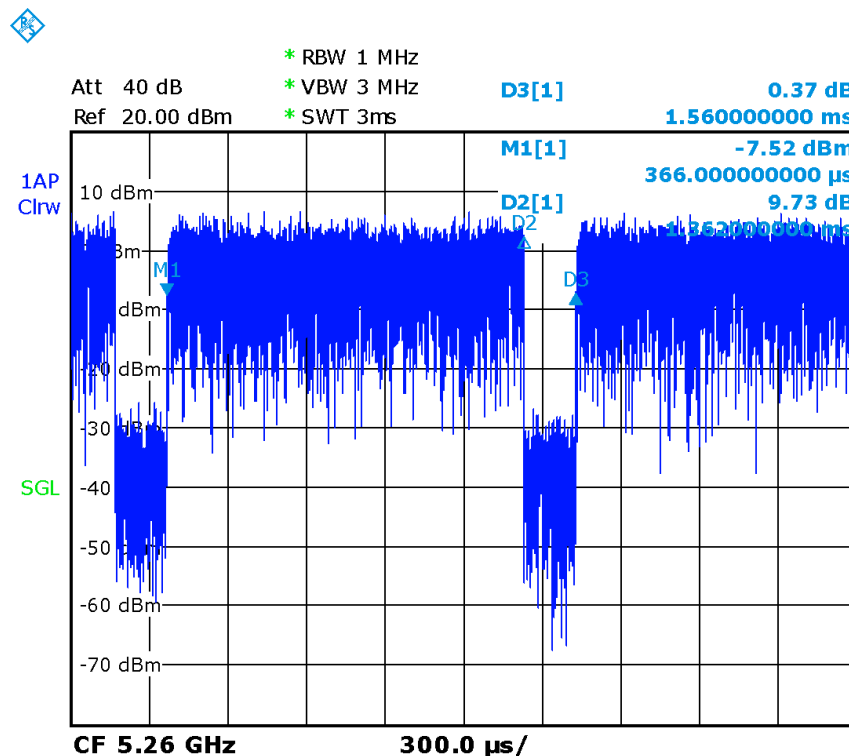
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.4-8: SAR Values (WLAN - Head) – 802.11a 6Mbps (Scaled Reported SAR)

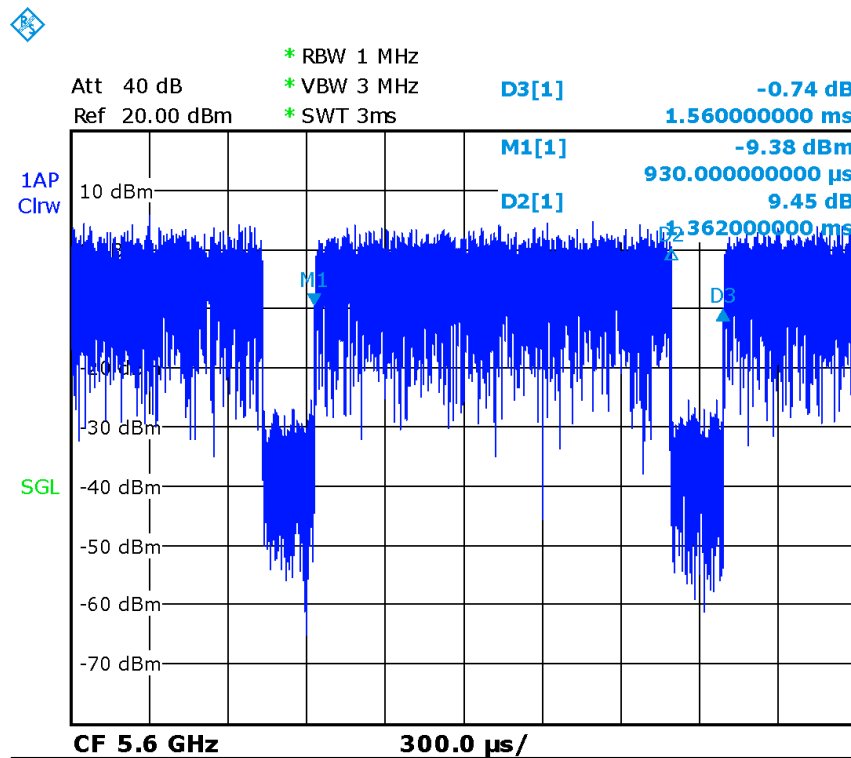
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
5260	52	Right	Tilt	87.31%	100%	0.83	0.95
5300	60	Right	Tilt	87.31%	100%	0.82	0.94
5600	120	Right	Tilt	87.31%	100%	0.83	0.95
5580	116	Right	Tilt	87.31%	100%	0.80	0.92
5765	153	Right	Tilt	87.31%	100%	0.64	0.73
5260	52	Right	Touch	87.31%	100%	0.77	0.88

Table 14.4-9: SAR Values (WLAN - Body) – 802.11a 6Mbps (Scaled Reported SAR)

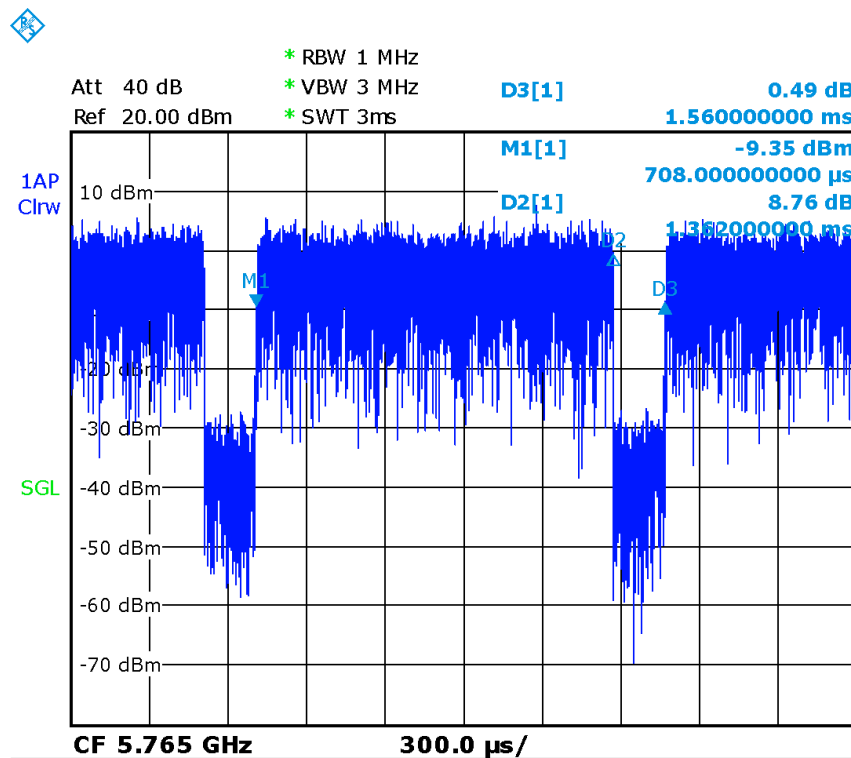
Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
5260	52	Rear	10	87.31%	100%	0.04	0.05
5600	120	Top	10	87.31%	100%	0.14	0.16
5765	153	Top	10	87.31%	100%	0.14	0.16



Picture 14.3 The plot of duty factor for U-NII-2A



Picture 14.4 The plot of duty factor for U-NII-2C



Picture 14.5 The plot of duty factor for U-NII-3

15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Table 15.1: SAR Measurement Variability for Body GSM850 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
128	824.2	Front	10	1.03	1.02	1.01	/

Table 15.2: SAR Measurement Variability for Body PCS1900 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
661	1880	Front	10	0.936	0.927	1.01	/

Table 15.3: SAR Measurement Variability for Body W1700 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
1738	1752.6	Front	10	0.960	0.953	1.01	/

Table 15.4: SAR Measurement Variability for Body W1900 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
8662	1852.4	Front	10	1.22	1.20	1.02	/