



5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11n- HT20	2C	104	5520	MCS0	16.50	15.90	No		
		108	5540		16.50	15.68	No		
		112	5560		16.50	15.84	No		
		116	5580		16.50	15.86	No		
		120	5600		16.50	15.96	No		
		124	5620		16.50	16.17	No		
		128	5640		16.50	16.08	No		
		132	5660		16.50	16.06	No		
		136	5680		16.50	15.62	No		
		140	5700		16.50	15.48	No		
	U-NII-3	149	5745		16.50	15.18	No		
		153	5765		16.50	15.17	No		
		157	5785		16.50	16.09	Yes		
		161	5805		16.50	15.95	No		
		mode	Channel		Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11n- HT20	U-NII-1	36		5180	MCS0	15.50	14.45	No
			40		5200		15.50	14.28	No
			44		5220		15.50	14.54	No
			48		5240		15.50	14.69	No
U-NII-2A		52	5260	15.50	14.40		No		
		56	5280	15.50	14.53		No		
		60	5300	15.50	14.34		No		
		64	5320	15.50	14.40		No		
U-NII-2C		100	5500	15.50	14.45		No		
		104	5520	15.50	14.50		No		
		108	5540	15.50	14.57		No		
		112	5560	15.50	14.53		No		
		116	5580	15.50	14.60		No		
		120	5600	15.50	14.75		No		
		124	5620	15.50	14.54		No		
		128	5640	15.50	14.43		No		
		132	5660	15.50	14.32		No		
		136	5680	15.50	14.32		No		
U-NII-3		149	5745	15.50	14.19		No		
		153	5765	15.50	14.24		No		
	157	5785	15.50	14.25	No				
	161	5805	15.50	14.58	No				
	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		



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802.11n- HT40	U-NII-1	38	5190	MCS0	15.50	14.28	No
		46	5230		15.50	14.41	No
	U-NII-2A	54	5270		15.50	14.44	No
		62	5310		15.50	14.58	No
	U-NII-2C	102	5510		15.50	14.69	No
		110	5550		15.50	14.97	No
		118	5590		15.50	15.11	No
		126	5630		15.50	14.90	No
	U-NII-3	134	5670		15.50	14.83	No
		151	5755		15.50	14.10	No
		159	5795	15.50	13.99	No	
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	16.50	15.32	No
		40	5200		16.50	15.38	No
		44	5220		16.50	15.41	No
		48	5240		16.50	15.58	No
	U-NII-2A	52	5260		16.50	15.57	No
		56	5280		16.50	15.50	No
		60	5300		16.50	15.55	No
		64	5320		16.50	15.51	No
	U-NII-2C	100	5500		16.50	15.32	No
		104	5520		16.50	15.60	No
		108	5540		16.50	15.62	No
		112	5560		16.50	15.64	No
		116	5580		16.50	15.97	No
		120	5600		16.50	16.01	No
		124	5620		16.50	15.81	No
		128	5640		16.50	15.90	No
	U-NII-3	132	5660		16.50	15.80	No
		136	5680		16.50	15.76	No
		140	5700		16.50	15.69	No
		149	5745		16.50	15.49	No
153		5765	16.50	15.38	No		
157		5785	16.50	15.55	No		
161		5805	16.50	15.49	No		
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	15.50	14.43	No
		46	5230		15.50	14.22	No
	U-NII-	54	5270		15.50	14.07	No



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	2A	62	5310		15.50	14.66	No
	U-NII-2C	102	5510		15.50	14.76	No
		110	5550		15.50	14.79	No
		118	5590		15.50	14.88	No
		126	5630		15.50	14.95	No
		134	5670		15.50	14.91	No
	U-NII-3	151	5755		15.50	14.09	No
		159	5795		15.50	14.20	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	14.00	12.95	No
	U-NII-2A	58	5290		14.00	13.05	No
	U-NII-2C	106	5530		14.00	13.21	No
		122	5610		14.00	13.60	No
	U-NII-3	155	5775		14.00	13.34	No

WiFi 5G Ant7(Chain1) Receiver on							
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	13.50	12.81	No
		40	5200		13.50	12.69	No
		44	5220		13.50	12.83	No
		48	5240		13.50	12.87	No
	U-NII-2A	52	5260		13.50	12.97	Yes
		56	5280		13.50	12.91	No
		60	5300		13.50	12.96	No
		64	5320		13.50	12.96	No
	U-NII-2C	100	5500		13.50	12.85	No
		104	5520		13.50	13.08	No
		108	5540		13.50	13.03	No
		112	5560		13.50	13.18	No
		116	5580		13.50	13.15	No
		120	5600		13.50	13.41	Yes
		124	5620		13.50	13.33	No
		128	5640		13.50	13.39	No
		132	5660		13.50	13.28	No
		136	5680		13.50	12.88	No
	U-NII-3	140	5700		13.50	12.83	No
		149	5745		13.50	12.52	No
153		5765	13.50	12.47	No		
		157	5785	13.50	13.30	Yes	



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5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test		
802.11n- HT20	U-NII-1	161	5805	MCS0	13.50	13.26	No		
		36	5180		12.50	11.66	No		
		40	5200		12.50	11.63	No		
		44	5220		12.50	11.78	No		
	U-NII-2A	48	5240		12.50	11.84	No		
		52	5260		12.50	11.74	No		
		56	5280		12.50	11.68	No		
		60	5300		12.50	11.62	No		
		64	5320		12.50	11.68	No		
		U-NII-2C	100		5500	12.50	11.68	No	
			104		5520	12.50	11.71	No	
			108		5540	12.50	11.75	No	
	112		5560		12.50	11.86	No		
	116		5580		12.50	11.93	No		
	120		5600		12.50	12.02	No		
	124		5620		12.50	11.86	No		
	128		5640		12.50	11.75	No		
	132		5660		12.50	11.64	No		
	136		5680		12.50	11.63	No		
	140		5700		12.50	11.61	No		
	U-NII-3		149		5745	12.50	11.43	No	
		153	5765		12.50	11.51	No		
		157	5785		12.50	11.58	No		
		161	5805		12.50	11.86	No		
	5GHz	mode	Channel		Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
	802.11n- HT40	U-NII-1	38		5190	MCS0	12.50	11.62	No
			46		5230		12.50	11.71	No
		U-NII-2A	54		5270		12.50	11.78	No
62			5310	12.50	11.86		No		
U-NII-2C		102	5510	12.50	12.01		No		
		110	5550	12.50	12.14		No		
		118	5590	12.50	12.28		No		
		126	5630	12.50	12.16		No		
		134	5670	12.50	12.01		No		
		U-NII-3	151	5755	12.50		11.43	No	
159			5795	12.50	11.34		No		
5GHz		mode	Channel	Frequency (MHz)	Data Rate(Mbps)		Tune up	Average Power (dBm)	SAR Test



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802.11ac 20M	U-NII-1	36	5180	MCS0	13.50	12.62	No
		40	5200		13.50	12.54	No
		44	5220		13.50	12.68	No
		48	5240		13.50	12.85	No
	U-NII-2A	52	5260		13.50	12.74	No
		56	5280		13.50	12.65	No
		60	5300		13.50	12.71	No
		64	5320		13.50	12.77	No
	U-NII-2C	100	5500		13.50	12.64	No
		104	5520		13.50	12.75	No
		108	5540		13.50	12.82	No
		112	5560		13.50	12.98	No
		116	5580		13.50	13.15	No
		120	5600		13.50	13.24	No
		124	5620		13.50	13.12	No
		128	5640		13.50	13.15	No
		132	5660		13.50	13.12	No
		136	5680		13.50	12.98	No
	U-NII-3	140	5700		13.50	12.86	No
		149	5745		13.50	12.77	No
153		5765	13.50	12.71	No		
157		5785	13.50	12.75	No		
		161	5805	13.50	12.69	No	
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	12.50	11.58	No
		46	5230		12.50	11.51	No
	U-NII-2A	54	5270		12.50	11.42	No
		62	5310		12.50	11.83	No
	U-NII-2C	102	5510		12.50	12.04	No
		110	5550		12.50	12.13	No
		118	5590		12.50	12.23	No
		126	5630		12.50	12.15	No
		134	5670		12.50	12.06	No
	U-NII-3	151	5755		12.50	11.41	No
159		5795	12.50	11.35	No		
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	11.00	10.21	No
	U-NII-2A	58	5290		11.00	10.24	No
	U-NII-	106	5530		11.00	10.45	No



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	2C	122	5610		11.00	10.76	No
	U-NII-3	155	5775		11.00	10.53	No

WWAN + WLAN 5G Ant7(Chain1) Receiver on							
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	11.50	10.76	No
		40	5200		11.50	10.59	No
		44	5220		11.50	10.86	No
		48	5240		11.50	10.81	No
	U-NII-2A	52	5260		11.50	10.85	No
		56	5280		11.50	10.91	No
		60	5300		11.50	10.99	Yes
		64	5320		11.50	10.90	No
	U-NII-2C	100	5500		11.50	10.92	No
		104	5520		11.50	10.92	No
		108	5540		11.50	11.02	No
		112	5560		11.50	11.05	No
		116	5580		11.50	11.20	No
		120	5600		11.50	11.40	No
		124	5620		11.50	11.22	No
		128	5640		11.50	11.26	No
	U-NII-3	132	5660		11.50	11.21	No
		136	5680		11.50	11.05	No
		140	5700		11.50	10.89	No
		149	5745		11.50	10.60	No
153		5765	11.50	10.58	No		
157		5785	11.50	10.79	No		
161		5805	11.50	10.86	No		
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	10.50	9.61	No
		40	5200		10.50	9.58	No
		44	5220		10.50	9.86	No
		48	5240		10.50	9.87	No
	U-NII-2A	52	5260		10.50	9.73	No
		56	5280		10.50	9.73	No
		60	5300		10.50	9.58	No
		64	5320		10.50	9.59	No
	U-NII-2C	100	5500		10.50	9.74	No
		104	5520		10.50	9.68	No
		108	5540		10.50	9.83	No
		112	5560		10.50	9.87	No



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5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test			
802.11n- HT40	U-NII-1	116	5580	MCS0	10.50	9.90	No			
		120	5600		10.50	10.01	No			
		124	5620		10.50	9.80	No			
		128	5640		10.50	9.84	No			
		132	5660		10.50	9.58	No			
		136	5680		10.50	9.70	No			
		140	5700		10.50	9.66	No			
	U-NII-3	149	5745		10.50	9.38	No			
		153	5765		10.50	9.55	No			
		157	5785		10.50	9.48	No			
		161	5805		10.50	9.86	No			
		802.11ac 20M	U-NII-1		38	5190	MCS0	10.50	9.51	No
					46	5230		10.50	9.66	No
					54	5270		10.50	9.72	No
62	5310			10.50	9.86	No				
U-NII-2C	102		5510	10.50	9.97	No				
	110		5550	10.50	10.08	No				
	118		5590	10.50	10.32	No				
	126		5630	10.50	10.05	No				
U-NII-3	134		5670	10.50	9.96	No				
	151		5755	10.50	9.51	No				
	159		5795	10.50	9.35	No				
	802.11ac 20M		U-NII-1	36	5180	MCS0		11.50	10.66	No
				40	5200			11.50	10.60	No
				44	5220			11.50	10.62	No
48		5240		11.50	10.94		No			
U-NII-2A		52	5260	11.50	10.82		No			
		56	5280	11.50	10.62		No			
		60	5300	11.50	10.82		No			
U-NII-2C		64	5320	11.50	10.77		No			
		100	5500	11.50	10.55		No			
		104	5520	11.50	10.70		No			
		108	5540	11.50	10.85		No			
		112	5560	11.50	10.95		No			
		116	5580	11.50	11.11		No			
		120	5600	11.50	11.25		No			
124	5620	11.50	11.15	No						
128	5640	11.50	11.08	No						
132	5660	11.50	11.09	No						



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	U-NII-3	136	5680		11.50	10.84	No
		140	5700		11.50	10.75	No
		149	5745		11.50	10.79	No
		153	5765		11.50	10.76	No
		157	5785		11.50	10.76	No
		161	5805		11.50	10.70	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	10.50	9.48	No
		46	5230		10.50	9.53	No
	U-NII-2A	54	5270		10.50	9.55	No
		62	5310		10.50	9.80	No
	U-NII-2C	102	5510		10.50	10.05	No
		110	5550		10.50	10.14	No
		118	5590		10.50	10.24	No
		126	5630		10.50	10.17	No
	U-NII-3	134	5670		10.50	10.01	No
		151	5755		10.50	9.51	No
		159	5795	10.50	9.28	No	
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	9.00	8.14	No
	U-NII-2A	58	5290		9.00	8.18	No
		106	5530		9.00	8.42	No
	U-NII-2C	122	5610		9.00	8.71	No
		U-NII-3	155		5775	9.00	8.51



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WiFi 5G MIMO Receiver off						
5GHz	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	21.00	19.83	Yes
		40	5200	21.00	19.57	No
		44	5220	21.00	19.72	No
		48	5240	21.00	19.72	No
	U-NII-2A	52	5260	21.00	19.98	Yes
		56	5280	21.00	19.90	No
		60	5300	21.00	19.80	No
		64	5320	21.00	19.73	No
	U-NII-2C	100	5500	21.00	19.84	Yes
		104	5520	21.00	19.66	No
		108	5540	21.00	19.70	No
		112	5560	21.00	19.33	No
		116	5580	21.00	19.59	No
		120	5600	21.00	20.03	Yes
		124	5620	21.00	19.69	No
		128	5640	21.00	19.54	No
		132	5660	21.00	19.71	No
		136	5680	21.00	19.50	No
	U-NII-3	140	5700	21.00	19.53	No
		149	5745	21.00	20.13	Yes
153		5765	21.00	20.03	No	
157		5785	21.00	20.39	Yes	
161	5805	21.00	19.95	No		
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	20.00	18.60	No
		40	5200	20.00	18.52	No
		44	5220	20.00	18.70	No
		48	5240	20.00	18.63	No
	U-NII-2A	52	5260	20.00	18.86	No
		56	5280	20.00	18.90	No
		60	5300	20.00	18.79	No
		64	5320	20.00	18.68	No
	U-NII-2C	100	5500	20.00	18.79	No
		104	5520	20.00	18.62	No
		108	5540	20.00	18.44	No
		112	5560	20.00	18.38	No
		116	5580	20.00	18.50	No
		120	5600	20.00	18.57	No



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5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test	
		124	5620	20.00	18.69	No	
		128	5640	20.00	18.60	No	
		132	5660	20.00	18.63	No	
		136	5680	20.00	18.43	No	
		140	5700	20.00	18.56	No	
		149	5745	20.00	18.43	No	
	U-NII-3	153	5765	20.00	18.39	No	
		157	5785	20.00	18.58	No	
		161	5805	20.00	18.55	No	
	5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
	802.11n- HT40	U-NII-1	38	5190	20.00	18.62	No
46			5230	20.00	18.56	No	
U-NII-2A		54	5270	20.00	18.47	No	
		62	5310	20.00	18.40	No	
U-NII-2C		102	5510	20.00	18.20	No	
		110	5550	20.00	18.38	No	
		118	5590	20.00	18.45	No	
		126	5630	20.00	18.31	No	
U-NII-3		134	5670	20.00	18.35	No	
		151	5755	20.00	18.29	No	
159		5795	20.00	18.22	No		
5GHz		mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	21.00	19.85	No	
		40	5200	21.00	19.80	No	
		44	5220	21.00	19.76	No	
		48	5240	21.00	19.85	No	
	U-NII-2A	52	5260	21.00	19.89	No	
		56	5280	21.00	19.61	No	
		60	5300	21.00	19.69	No	
	U-NII-2C	64	5320	21.00	19.75	No	
		100	5500	21.00	19.89	No	
		104	5520	21.00	19.80	No	
		108	5540	21.00	19.77	No	
		112	5560	21.00	19.63	No	
		116	5580	21.00	19.60	No	
		120	5600	21.00	19.70	No	
		124	5620	21.00	19.54	No	
		128	5640	21.00	19.66	No	
		132	5660	21.00	19.74	No	
		136	5680	21.00	19.79	No	
		140	5700	21.00	19.79	No	



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		149	5745	21.00	19.45	No
		153	5765	21.00	19.35	No
		157	5785	21.00	19.33	No
		161	5805	21.00	19.40	No
5GHz	mode	Channel	Frequency(MHz)	21	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	20	18.48	No
		46	5230	20	18.65	No
	U-NII-2A	54	5270	20	18.58	No
		62	5310	20	18.56	No
	U-NII-2C	102	5510	20	18.93	No
		110	5550	20	18.89	No
		118	5590	20	18.85	No
		126	5630	20	18.75	No
	U-NII-3	134	5670	20	18.67	No
		151	5755	20	18.70	No
		159	5795	20	18.79	No
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	19.00	17.43	No
	U-NII-2A	58	5290	19.00	17.32	No
	U-NII-2C	106	5530	19.00	17.38	No
		122	5610	19.00	17.43	No
	U-NII-3	155	5775	19.00	17.29	No

WWAN + WiFi 5G MIMO Receiver off

5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	19.50	17.91	No
		40	5200	19.50	17.92	No
		44	5220	19.50	18.00	No
		48	5240	19.50	18.09	No
	U-NII-2A	52	5260	19.50	18.09	No
		56	5280	19.50	18.23	No
		60	5300	19.50	18.33	No
		64	5320	19.50	18.27	No
	U-NII-2C	100	5500	19.50	18.32	No
		104	5520	19.50	18.37	No
		108	5540	19.50	18.41	No
		112	5560	19.50	18.45	No
		116	5580	19.50	18.39	No
		120	5600	19.50	18.16	No
		124	5620	19.50	18.52	No



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5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test	
802.11n- HT20	U-NII-1	128	5640	19.50	18.56	No	
		132	5660	19.50	18.29	No	
		136	5680	19.50	18.23	No	
		140	5700	19.50	18.09	No	
	U-NII-3	149	5745	19.50	17.64	No	
		153	5765	19.50	17.63	No	
		157	5785	19.50	18.25	Yes	
		161	5805	19.50	18.05	No	
	802.11n- HT40	U-NII-1	36	5180	18.50	17.05	No
			40	5200	18.50	17.01	No
			44	5220	18.50	17.05	No
			48	5240	18.50	17.16	No
		U-NII-2A	52	5260	18.50	17.26	No
			56	5280	18.50	17.05	No
			60	5300	18.50	17.18	No
			64	5320	18.50	17.11	No
U-NII-2C		100	5500	18.50	17.20	No	
		104	5520	18.50	17.04	No	
		108	5540	18.50	17.21	No	
		112	5560	18.50	17.14	No	
		116	5580	18.50	17.18	No	
		120	5600	18.50	17.38	No	
		124	5620	18.50	17.32	No	
		128	5640	18.50	17.29	No	
U-NII-3		132	5660	18.50	17.19	No	
		136	5680	18.50	17.13	No	
		140	5700	18.50	16.90	No	
		149	5745	18.50	16.83	No	
U-NII-3	153	5765	18.50	16.53	No		
	157	5785	18.50	16.90	No		
	161	5805	18.50	17.08	No		
	802.11n- HT40	U-NII-1	38	5190	18.50	16.99	No
46			5230	18.50	17.02	No	
U-NII-2A		54	5270	18.50	17.07	No	
		62	5310	18.50	17.11	No	
U-NII-2C		102	5510	18.50	17.17	No	
		110	5550	18.50	17.13	No	
		118	5590	18.50	17.19	No	
		126	5630	18.50	17.19	No	



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5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test	
	U-NII-3	134	5670	18.50	17.31	No	
		151	5755	18.50	17.32	No	
		159	5795	18.50	17.45	No	
802.11ac 20M	U-NII-1	36	5180	19.50	18.00	No	
		40	5200	19.50	18.25	No	
		44	5220	19.50	18.11	No	
		48	5240	19.50	18.08	No	
	U-NII-2A	52	5260	19.50	18.22	No	
		56	5280	19.50	18.22	No	
		60	5300	19.50	18.11	No	
		64	5320	19.50	18.04	No	
	U-NII-2C	100	5500	19.50	18.09	No	
		104	5520	19.50	17.95	No	
		108	5540	19.50	17.95	No	
		112	5560	19.50	18.23	No	
		116	5580	19.50	18.15	No	
		120	5600	19.50	18.17	No	
		124	5620	19.50	18.36	No	
		128	5640	19.50	18.26	No	
		132	5660	19.50	18.11	No	
		136	5680	19.50	18.14	No	
		140	5700	19.50	17.98	No	
		U-NII-3	149	5745	19.50	17.55	No
	153		5765	19.50	17.58	No	
	157		5785	19.50	17.68	No	
	161		5805	19.50	17.73	No	
	5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
	802.11ac 40M	U-NII-1	38	5190	18.50	16.99	No
			46	5230	18.50	17.03	No
		U-NII-2A	54	5270	18.50	17.09	No
			62	5310	18.50	17.09	No
U-NII-2C		102	5510	18.50	17.29	No	
		110	5550	18.50	17.23	No	
		118	5590	18.50	17.36	No	
		126	5630	18.50	17.26	No	
		134	5670	18.50	17.37	No	
U-NII-3		151	5755	18.50	17.30	No	
		159	5795	18.50	17.25	No	
5GHz		mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test



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802.11ac 80M	U-NII-1	42	5210	17.00	15.64	No
	U-NII-2A	58	5290	17.00	15.82	No
	U-NII-2C	106	5530	17.00	15.77	No
		122	5610	17.00	15.65	No
	U-NII-3	155	5775	17.00	15.66	No

WiFi 5G MIMO Receiver on						
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	16.50	15.32	No
		40	5200	16.50	15.38	No
		44	5220	16.50	15.45	No
		48	5240	16.50	15.42	No
	U-NII-2A	52	5260	16.50	15.89	Yes
		56	5280	16.50	15.65	No
		60	5300	16.50	15.66	Yes
		64	5320	16.50	15.39	No
	U-NII-2C	100	5500	16.50	15.52	No
		104	5520	16.50	15.54	No
		108	5540	16.50	15.54	No
		112	5560	16.50	15.64	No
		116	5580	16.50	15.60	No
		120	5600	16.50	15.76	Yes
		124	5620	16.50	15.74	No
		128	5640	16.50	15.63	No
	U-NII-3	132	5660	16.50	15.49	No
		136	5680	16.50	15.45	No
		140	5700	16.50	15.28	No
		149	5745	16.50	14.79	No
U-NII-3	153	5765	16.50	14.79	No	
	157	5785	16.50	15.08	Yes	
	161	5805	16.50	14.99	No	
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11n- HT20	U-NII-1	36	5180	15.50	14.19	No
		40	5200	15.50	14.26	No
		44	5220	15.50	14.31	No
		48	5240	15.50	14.37	No
	U-NII-2A	52	5260	15.50	14.45	No
		56	5280	15.50	14.31	No
		60	5300	15.50	14.38	No
		64	5320	15.50	14.23	No
	U-NII-2C	100	5500	15.50	14.33	No



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		104	5520	15.50	14.29	No
		108	5540	15.50	14.41	No
		112	5560	15.50	14.40	No
		116	5580	15.50	14.45	No
		120	5600	15.50	14.48	No
		124	5620	15.50	14.58	No
		128	5640	15.50	14.48	No
		132	5660	15.50	14.33	No
		136	5680	15.50	14.20	No
		140	5700	15.50	14.03	No
	U-NII-3	149	5745	15.50	13.91	No
		153	5765	15.50	13.61	No
		157	5785	15.50	14.04	No
		161	5805	15.50	14.24	No
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11n- HT40	U-NII-1	38	5190	15.50	14.12	No
		46	5230	15.50	14.18	No
	U-NII-2A	54	5270	15.50	14.23	No
		62	5310	15.50	14.27	No
	U-NII-2C	102	5510	15.50	14.30	No
		110	5550	15.50	14.33	No
		118	5590	15.50	14.36	No
		126	5630	15.50	14.43	No
	U-NII-3	134	5670	15.50	14.48	No
		151	5755	15.50	14.53	No
		159	5795	15.50	14.64	No
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	16.50	15.25	No
		40	5200	16.50	15.43	No
		44	5220	16.50	15.35	No
		48	5240	16.50	15.36	No
	U-NII-2A	52	5260	16.50	15.42	No
		56	5280	16.50	15.36	No
		60	5300	16.50	15.34	No
		64	5320	16.50	15.30	No
	U-NII-2C	100	5500	16.50	15.34	No
		104	5520	16.50	15.24	No
		108	5540	16.50	15.17	No
		112	5560	16.50	15.42	No
		116	5580	16.50	15.43	No
		120	5600	16.50	15.43	No



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		124	5620	16.50	15.53	No
		128	5640	16.50	15.44	No
		132	5660	16.50	15.36	No
		136	5680	16.50	15.28	No
		140	5700	16.50	15.17	No
	U-NII-3	149	5745	16.50	14.65	No
		153	5765	16.50	14.72	No
		157	5785	16.50	14.85	No
		161	5805	16.50	14.98	No
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	15.50	14.13	No
		46	5230	15.50	14.19	No
	U-NII-2A	54	5270	15.50	14.27	No
		62	5310	15.50	14.27	No
	U-NII-2C	102	5510	15.50	14.36	No
		110	5550	15.50	14.34	No
		118	5590	15.50	14.44	No
		126	5630	15.50	14.51	No
	U-NII-3	134	5670	15.50	14.55	No
		151	5755	15.50	14.48	No
		159	5795	15.50	14.41	No
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	14.00	12.86	No
	U-NII-2A	58	5290	14.00	12.91	No
	U-NII-2C	106	5530	14.00	13.03	No
		122	5610	14.00	12.95	No
	U-NII-3	155	5775	14.00	12.85	No



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WWAN + WiFi 5G MIMO Receiver on						
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	14.50	13.35	No
		40	5200	14.50	13.50	No
		44	5220	14.50	13.45	No
		48	5240	14.50	13.38	No
	U-NII-2A	52	5260	14.50	13.46	No
		56	5280	14.50	13.42	No
		60	5300	14.50	13.56	Yes
		64	5320	14.50	13.55	No
	U-NII-2C	100	5500	14.50	13.71	No
		104	5520	14.50	13.81	No
		108	5540	14.50	13.74	No
		112	5560	14.50	13.80	No
		116	5580	14.50	13.66	No
		120	5600	14.50	14.00	No
		124	5620	14.50	13.63	No
		128	5640	14.50	13.86	No
		132	5660	14.50	13.75	No
		136	5680	14.50	13.61	No
	U-NII-3	149	5745	14.50	13.02	No
		153	5765	14.50	13.13	No
157		5785	14.50	13.10	No	
161		5805	14.50	13.10	No	
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	13.50	12.34	No
		40	5200	13.50	12.48	No
		44	5220	13.50	12.47	No
		48	5240	13.50	12.53	No
	U-NII-2A	52	5260	13.50	12.56	No
		56	5280	13.50	12.57	No
		60	5300	13.50	12.56	No
		64	5320	13.50	12.48	No
	U-NII-2C	100	5500	13.50	12.50	No
		104	5520	13.50	12.50	No
		108	5540	13.50	12.65	No
		112	5560	13.50	12.56	No
		116	5580	13.50	12.72	No
		120	5600	13.50	12.69	No
		124	5620	13.50	12.86	No

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5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test	
802.11n- HT40	U-NII-1	128	5640	13.50	12.75	No	
		132	5660	13.50	12.48	No	
		136	5680	13.50	12.34	No	
		140	5700	13.50	12.14	No	
	U-NII-3	149	5745	13.50	12.15	No	
		153	5765	13.50	11.84	No	
		157	5785	13.50	12.25	No	
		161	5805	13.50	12.40	No	
	802.11ac 20M	U-NII-1	36	5180	14.50	13.36	No
			40	5200	14.50	13.60	No
44			5220	14.50	13.59	No	
48			5240	14.50	13.64	No	
U-NII-2A		52	5260	14.50	13.63	No	
		56	5280	14.50	13.47	No	
		60	5300	14.50	13.60	No	
		64	5320	14.50	13.50	No	
U-NII-2C		100	5500	14.50	13.57	No	
		104	5520	14.50	13.47	No	
	108	5540	14.50	13.34	No		
	112	5560	14.50	13.48	No		
	116	5580	14.50	13.61	No		
	120	5600	14.50	13.70	No		
	124	5620	14.50	13.69	No		
	128	5640	14.50	13.69	No		
U-NII-3	132	5660	14.50	13.59	No		
	136	5680	14.50	13.51	No		
U-NII-3	140	5700	14.50	13.28	No		
	149	5745	14.50	12.84	No		



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5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
		153	5765	14.50	12.91	No
		157	5785	14.50	13.07	No
		161	5805	14.50	13.13	No
802.11ac 40M	U-NII-1	38	5190	13.50	12.34	No
		46	5230	13.50	12.43	No
	U-NII-2A	54	5270	13.50	12.43	No
		62	5310	13.50	12.47	No
	U-NII-2C	102	5510	13.50	12.57	No
		110	5550	13.50	12.57	No
		118	5590	13.50	12.65	No
		126	5630	13.50	12.59	No
	U-NII-3	134	5670	13.50	12.83	No
		151	5755	13.50	12.73	No
		159	5795	13.50	12.66	No
5GHz	mode	Channel	Frequency(MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	12.00	11.05	No
	U-NII-2A	58	5290	12.00	11.08	No
	U-NII-2C	106	5530	12.00	11.23	No
		122	5610	12.00	11.14	No
	U-NII-3	155	5775	12.00	11.00	No

Table 24: Conducted Power of WiFi

BT			Tune up (dBm)	Average Conducted Power(dBm)
Modulation	Channel	Frequency (MHz)		
GFSK	0	2402	10.00	9.53
	39	2441	10.00	9.61
	78	2480	10.00	9.58
π/4DQPSK	0	2402	10.00	9.53
	39	2441	10.00	9.46
	78	2480	10.00	9.42
8DPSK	0	2402	10.00	9.54
	39	2441	10.00	9.48
	78	2480	10.00	9.46



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BLE 1M				
Modulation	Channel	Frequency (MHz)	Tune up (dBm)	Average Conducted Power(dBm)
GFSK	0	2402	1.00	-0.70
	19	2440	1.00	0.93
	39	2480	1.00	-0.57
BLE-2M				
Modulation	Channel	Frequency (MHz)	Tune up (dBm)	Average Conducted Power(dBm)
GFSK	0	2402	-1.00	-3.50
	19	2440	-1.00	-2.01
	39	2480	-1.00	-3.40

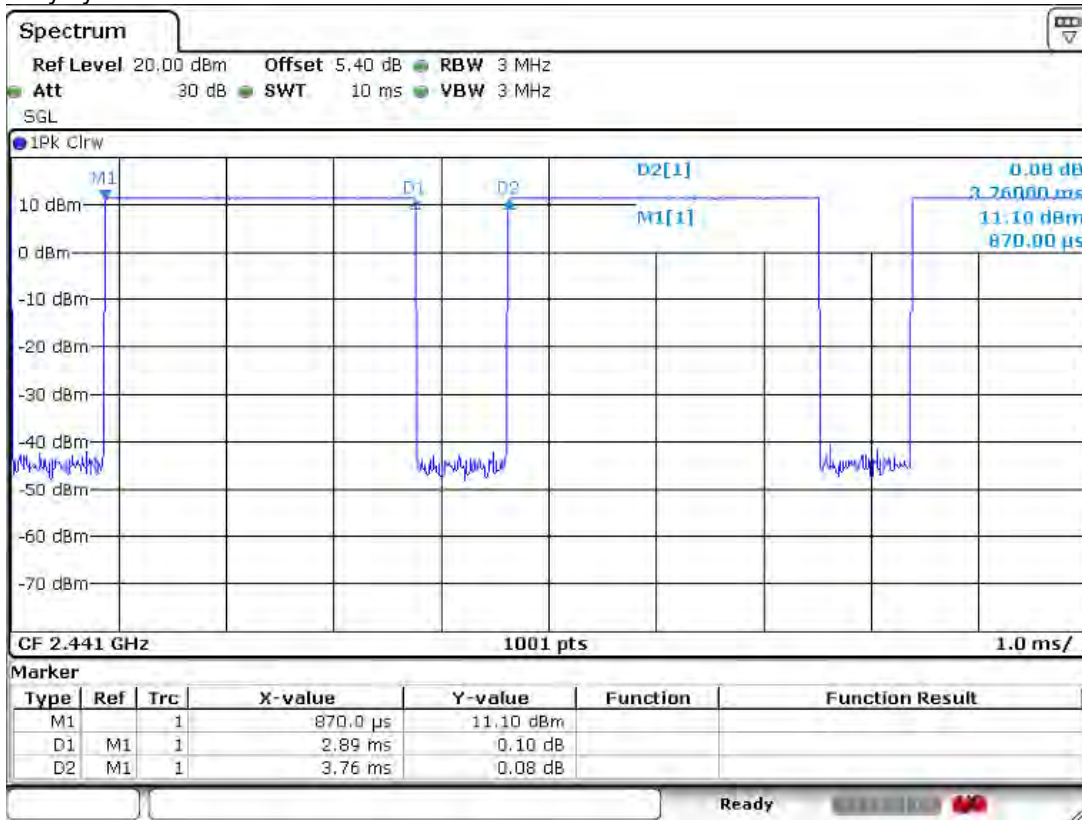
Table 25: Conducted Power of BT

Note:

- 1)The conducted power of BT is measured with RMS detector.
- 2)The bolded mode was selected for SAR testing.

Bluetooth DH5(GFSK):

Duty cycle=2.89/3.76=76.86%



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency (GHz)	Position	Average Power		Test Separation (mm)	Calculate Value	Exclusion Threshold	Exclusion (Y/N)
			dBm	mW				
Wi-Fi 2.4G Ant8(Chain0)	2.472	Head	15.5	35.48	5	11.16	3	N
		Body-worn	19.5	89.13	15	9.34	3	N
		Hotspot	19.5	89.13	10	14.01	3	N
Wi-Fi 2.4G MIMO	2.472	Head	18.5	70.79	5	22.26	3	N
		Body-worn	22.5	177.83	15	18.64	3	N
		Hotspot	22.5	177.83	10	27.96	3	N
Wi-Fi 5G Ant7(Chain1)	5.85	Head	13.5	22.39	5	10.83	3	N
		Body-worn	18.0	63.10	15	10.17	3	N
		Hotspot	18.0	63.10	10	15.26	3	N
Wi-Fi 5G MIMO	5.85	Head	16.5	44.67	5	21.61	3	N
		Body-worn	21.0	125.89	15	20.30	3	N
		Hotspot	21.0	125.89	10	30.45	3	N
Bluetooth	2.48	Head	10.0	10.00	5	3.15	3	N
		Body-worn	10.0	10.00	15	1.05	3	Y
		Hotspot	10.0	10.00	10	1.57	3	Y

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 Measurement of SAR Data

8.3.1 SAR Result of GSM850

Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	190/836.6	1:8.3	0.128	0.16	31.72	32.50	1.197	0.153	22.0
Left tilted	GSM	190/836.6	1:8.3	0.054	0.04	31.72	32.50	1.197	0.065	22.0
Right cheek	GSM	190/836.6	1:8.3	0.099	0.06	31.72	32.50	1.197	0.119	22.0
Right tilted	GSM	190/836.6	1:8.3	0.056	-0.09	31.72	32.50	1.197	0.067	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.149	-0.06	31.72	32.50	1.197	0.178	22.0
Back side	GSM	190/836.6	1:8.3	0.209	0.05	31.72	32.50	1.197	0.250	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.242	0.10	25.18	26.50	1.355	0.328	22.0
Back side	GPRS 4TS	190/836.6	1:2.075	0.322	-0.04	25.18	26.50	1.355	0.436	22.0
Right side	GPRS 4TS	190/836.6	1:2.075	0.083	0.17	25.18	26.50	1.355	0.112	22.0
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.134	-0.15	25.18	26.50	1.355	0.182	22.0
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	190/836.6	1:8.3	0.318	-0.02	27.79	29.50	1.483	0.471	22.0
Left tilted	GSM	190/836.6	1:8.3	0.348	0.05	27.79	29.50	1.483	0.516	22.0
Right cheek	GSM	190/836.6	1:8.3	0.409	0.03	27.79	29.50	1.483	0.606	22.0
Right tilted	GSM	190/836.6	1:8.3	0.494	-0.04	27.79	29.50	1.483	0.732	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.150	0.18	32.44	33.50	1.276	0.191	22.0
Back side	GSM	190/836.6	1:8.3	0.220	-0.04	32.44	33.50	1.276	0.281	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.77	0.124	0.13	21.91	23.50	1.442	0.179	22.0
Back side	GPRS 4TS	190/836.6	1:2.77	0.134	-0.06	21.91	23.50	1.442	0.193	22.0
Left side	GPRS 4TS	190/836.6	1:2.77	0.066	-0.01	21.91	23.50	1.442	0.095	22.0
Top side	GPRS 4TS	190/836.6	1:2.77	0.154	0.05	21.91	23.50	1.442	0.222	22.0

Table 26: SAR of GSM850 for Head and Body(Original report ZR/2020/2002906).



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Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Left cheek	GSM	190/836.6	1:8.3	0.131	0.01	31.72	32.50	1.197	0.157	22.0
Hotspot Test data at the worst case (Separate 15mm)										
Back side	GSM	190/836.6	1:8.3	0.215	0.03	31.72	32.50	1.197	0.257	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Back side	GPRS 4TS	190/836.6	1:2.075	0.332	-0.02	25.18	26.50	1.355	0.450	22.0
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right tilted	GSM	190/836.6	1:8.3	0.509	-0.05	27.79	29.50	1.483	0.755	22.0
Hotspot Test data at the worst case (Separate 15mm)										
Back side	GSM	190/836.6	1:8.3	0.226	-0.02	32.44	33.50	1.276	0.288	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Top side	GPRS 4TS	190/836.6	1:2.77	0.158	0.02	21.91	23.50	1.442	0.228	22.0

Table 27: SAR of GSM850 for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.2 SAR Result of GSM1900

Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	661/1880	1:8.3	0.210	0.07	25.26	27.00	1.493	0.313	22.0
Left tilted	GSM	661/1880	1:8.3	0.095	-0.04	25.26	27.00	1.493	0.142	22.0
Right cheek	GSM	661/1880	1:8.3	0.565	-0.02	25.26	27.00	1.493	0.843	22.0
Right cheek	GSM	512/1850.2	1:8.3	0.557	0.03	25.35	27.00	1.462	0.814	22.0
Right cheek	GSM	810/1909.8	1:8.3	0.564	-0.02	25.34	27.00	1.466	0.827	22.0
Right tilted	GSM	661/1880	1:8.3	0.136	0.08	25.26	27.00	1.493	0.203	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.090	-0.19	29.31	30.50	1.315	0.118	22.0
Back side	GSM	661/1880	1:8.3	0.137	0.07	29.31	30.50	1.315	0.180	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.076	0.15	19.08	21.00	1.556	0.118	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.060	0.12	19.08	21.00	1.556	0.093	22.0
Left side	GPRS 4TS	661/1880	1:2.075	0.227	0.08	19.08	21.00	1.556	0.353	22.0
Ant 10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	661/1880	1:8.3	0.073	0.04	29.21	30.50	1.346	0.098	22.0
Left tilted	GSM	661/1880	1:8.3	0.057	0.11	29.21	30.50	1.346	0.077	22.0
Right cheek	GSM	661/1880	1:8.3	0.074	0.07	29.21	30.50	1.346	0.099	22.0
Right tilted	GSM	661/1880	1:8.3	0.058	0.14	29.21	30.50	1.346	0.078	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.189	0.11	29.21	30.50	1.346	0.254	22.0
Back side	GSM	661/1880	1:8.3	0.239	0.17	29.21	30.50	1.346	0.322	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.273	0.03	23.29	24.50	1.321	0.361	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.309	-0.07	23.29	24.50	1.321	0.408	22.0
Left side	GPRS 4TS	661/1880	1:2.075	0.105	-0.02	23.29	24.50	1.321	0.139	22.0
Bottom side	GPRS 4TS	661/1880	1:2.075	0.466	0.05	23.29	24.50	1.321	0.616	22.0

Table 28: SAR of GSM1900 for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right cheek	GSM	661/1880	1:8.3	0.539	-0.04	25.26	27.00	1.493	0.805	22.0
Hotspot Test data at the worst case (Separate 15mm)										
Back side	GSM	661/1880	1:8.3	0.131	0.06	29.31	30.50	1.315	0.172	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Left side	GPRS 4TS	661/1880	1:2.075	0.217	0.05	19.08	21.00	1.556	0.338	22.0
Ant 10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right cheek	GSM	661/1880	1:8.3	0.071	0.12	29.21	30.50	1.346	0.095	22.0
Hotspot Test data at the worst case (Separate 15mm)										
Back side	GSM	661/1880	1:8.3	0.229	0.07	29.21	30.50	1.346	0.308	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Bottom side	GPRS 4TS	661/1880	1:2.075	0.445	0.02	23.29	24.50	1.321	0.588	22.0

Table 29: SAR of GSM1900 for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.3 SAR Result of WCDMA Band II

Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.195	0.16	15.27	16.50	1.327	0.259	22.0
Left tilted	RMC	9400/1880	1:1	0.086	0.01	15.27	16.50	1.327	0.113	22.0
Right cheek	RMC	9400/1880	1:1	0.597	0.04	15.27	16.50	1.327	0.792	22.0
Right tilted	RMC	9400/1880	1:1	0.163	-0.01	15.27	16.50	1.327	0.216	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.165	-0.05	21.82	23.00	1.312	0.217	22.0
Back side	RMC	9400/1880	1:1	0.231	0.13	21.82	23.00	1.312	0.303	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.077	0.02	15.27	16.50	1.327	0.102	22.0
Back side	RMC	9400/1880	1:1	0.072	-0.01	15.27	16.50	1.327	0.096	22.0
Left side	RMC	9400/1880	1:1	0.194	0.03	15.27	16.50	1.327	0.258	22.0
Ant 10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.173	0.03	23.68	24.50	1.208	0.209	22.0
Left tilted	RMC	9400/1880	1:1	0.157	0.08	23.68	24.50	1.208	0.190	22.0
Right cheek	RMC	9400/1880	1:1	0.186	0.09	23.68	24.50	1.208	0.225	22.0
Right tilted	RMC	9400/1880	1:1	0.193	0.00	23.68	24.50	1.208	0.233	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.455	0.07	23.68	24.50	1.208	0.550	22.0
Back side	RMC	9400/1880	1:1	0.544	-0.06	23.68	24.50	1.208	0.657	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.399	0.15	20.51	22.00	1.409	0.562	22.0
Back side	RMC	9400/1880	1:1	0.462	-0.16	20.51	22.00	1.409	0.651	22.0
Left side	RMC	9400/1880	1:1	0.167	-0.01	20.51	22.00	1.409	0.235	22.0
Bottom side	RMC	9262/1852.4	1:1	0.576	0.06	20.51	22.00	1.409	0.812	22.0
Bottom side	RMC	9400/1880	1:1	0.692	0.06	20.53	22.00	1.403	0.971	22.0
Bottom side	RMC	9538/1907.6	1:1	0.581	-0.14	20.46	22.00	1.426	0.828	22.0
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm)										
Bottom side	RMC	9400/1880	1:1	2.590	0.10	23.68	24.50	1.208	3.128	22.0
Bottom side-repeat	RMC	9400/1880	1:1	2.530	-0.09	23.68	24.50	1.208	3.056	22.0
Bottom side	RMC	9262/1852.4	1:1	2.410	0.09	23.70	24.50	1.202	2.897	22.0
Bottom side	RMC	9538/1907.6	1:1	2.560	0.18	23.71	24.50	1.199	3.071	22.0

Table 30: SAR of WCDMA Band II for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right cheek	RMC	9400/1880	1:1	0.580	0.05	15.27	16.50	1.327	0.770	22.0
Hotspot Test data at the worst case (Separate 15mm)										
Back side	RMC	9400/1880	1:1	0.221	0.01	21.82	23.00	1.312	0.290	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Left side	RMC	9400/1880	1:1	0.186	0.03	15.27	16.50	1.327	0.247	22.0
Ant 10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right tilted	RMC	9400/1880	1:1	0.187	0.05	23.68	24.50	1.208	0.226	22.0
Hotspot Test data at the worst case (Separate 15mm)										
Back side	RMC	9400/1880	1:1	0.529	0.06	23.68	24.50	1.208	0.639	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Bottom side	RMC	9400/1880	1:1	0.673	0.06	20.53	22.00	1.403	0.944	22.0
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data at the worst case (Separate 0mm)										
Bottom side	RMC	9400/1880	1:1	2.520	0.01	23.68	24.50	1.208	3.044	22.0

Table 31: SAR of WCDMA Band II for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position	Channel/Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Bottom side 0mm	9400/1880	2.590	2.530	1.024	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.4 SAR Result of WCDMA Band IV

Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.161	0.09	17.04	18.50	1.400	0.225	22.0
Left tilted	RMC	1412/1732.4	1:1	0.088	0.01	17.04	18.50	1.400	0.123	22.0
Right cheek	RMC	1412/1732.4	1:1	0.604	0.09	17.04	18.50	1.400	0.845	22.0
Right cheek	RMC	1312/1712.4	1:1	0.566	0.05	17.12	18.50	1.374	0.778	22.0
Right cheek	RMC	1513/1752.6	1:1	0.648	0.09	17.04	18.50	1.400	0.907	22.0
Right tilted	RMC	1412/1732.4	1:1	0.120	0.02	17.04	18.50	1.400	0.168	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.142	-0.11	23.57	24.50	1.239	0.176	22.0
Back side	RMC	1412/1732.4	1:1	0.269	-0.06	23.57	24.50	1.239	0.333	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.078	-0.20	17.04	18.50	1.400	0.109	22.0
Back side	RMC	1412/1732.4	1:1	0.078	0.09	17.04	18.50	1.400	0.109	22.0
Left side	RMC	1412/1732.4	1:1	0.186	0.12	17.04	18.50	1.400	0.260	22.0
Ant 10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.154	0.05	23.55	24.50	1.245	0.192	22.0
Left tilted	RMC	1412/1732.4	1:1	0.131	0.06	23.55	24.50	1.245	0.163	22.0
Right cheek	RMC	1412/1732.4	1:1	0.181	0.13	23.55	24.50	1.245	0.225	22.0
Right tilted	RMC	1412/1732.4	1:1	0.183	0.03	23.55	24.50	1.245	0.228	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.338	-0.03	23.55	24.50	1.245	0.421	22.0
Back side	RMC	1412/1732.4	1:1	0.396	0.00	23.55	24.50	1.245	0.493	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.452	-0.07	21.51	23.00	1.409	0.637	22.0
Back side	RMC	1412/1732.4	1:1	0.487	0.05	21.51	23.00	1.409	0.686	22.0
Left side	RMC	1412/1732.4	1:1	0.188	0.09	21.51	23.00	1.409	0.265	22.0
Bottom side	RMC	1412/1732.4	1:1	0.614	0.05	21.51	23.00	1.409	0.865	22.0
Bottom side	RMC	1312/1712.4	1:1	0.554	0.04	21.37	23.00	1.455	0.806	22.0
Bottom side	RMC	1513/1752.6	1:1	0.685	0.01	21.45	23.00	1.429	0.979	22.0
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm)										
Bottom side	RMC	1412/1732.4	1:1	1.650	0.18	23.55	24.50	1.245	2.053	22.0
Bottom side	RMC	1312/1712.4	1:1	1.560	0.15	23.64	24.50	1.219	1.902	22.0
Bottom side	RMC	1513/1752.6	1:1	1.750	0.12	23.65	24.50	1.216	2.128	22.0

Table 32: SAR of WCDMA Band IV for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right cheek	RMC	1513/1752.6	1:1	0.637	0.07	17.04	18.50	1.400	0.892	22.0
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	1412/1732.4	1:1	0.270	0.06	23.57	24.50	1.239	0.334	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Left side	RMC	1412/1732.4	1:1	0.184	0.02	17.04	18.50	1.400	0.258	22.0
Ant 10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right tilted	RMC	1412/1732.4	1:1	0.181	-0.03	23.55	24.50	1.245	0.225	22.0
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	1412/1732.4	1:1	0.393	-0.01	23.55	24.50	1.245	0.489	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Bottom side	RMC	1513/1752.6	1:1	0.591	0.01	21.45	23.00	1.429	0.844	22.0
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data at the worst case (Separate 0mm)										
Bottom side	RMC	1513/1752.6	1:1	1.720	0.02	23.65	24.50	1.216	2.092	22.0

Table 33: SAR of WCDMA Band IV for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.5 SAR Result of WCDMA Band V

Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.128	0.02	22.94	24.00	1.276	0.163	22.0
Left tilted	RMC	4182/836.4	1:1	0.054	0.06	22.94	24.00	1.276	0.069	22.0
Right cheek	RMC	4182/836.4	1:1	0.098	0.02	22.94	24.00	1.276	0.125	22.0
Right tilted	RMC	4182/836.4	1:1	0.054	0.18	22.94	24.00	1.276	0.069	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.166	0.11	22.94	24.00	1.276	0.212	22.0
Back side	RMC	4182/836.4	1:1	0.222	0.04	22.94	24.00	1.276	0.283	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.310	-0.02	22.94	24.00	1.276	0.396	22.0
Back side	RMC	4182/836.4	1:1	0.416	0.17	22.94	24.00	1.276	0.531	22.0
Right side	RMC	4182/836.4	1:1	0.105	-0.16	22.94	24.00	1.276	0.134	22.0
Bottom side	RMC	4182/836.4	1:1	0.157	0.02	22.94	24.00	1.276	0.200	22.0
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.611	0.01	21.35	22.50	1.303	0.796	22.0
Left tilted	RMC	4182/836.4	1:1	0.640	0.08	21.35	22.50	1.303	0.834	22.0
Left tilted	RMC	4132/826.4	1:1	0.565	-0.04	21.29	22.50	1.321	0.747	22.0
Left tilted	RMC	4233/846.6	1:1	0.621	-0.05	21.32	22.50	1.312	0.815	22.0
Right cheek	RMC	4182/836.4	1:1	0.789	-0.06	21.35	22.50	1.303	1.028	22.0
Right cheek	RMC	4132/826.4	1:1	0.750	0.03	21.29	22.50	1.321	0.991	22.0
Right cheek	RMC	4233/846.6	1:1	0.786	-0.03	21.32	22.50	1.312	1.031	22.0
Right tilted	RMC	4182/836.4	1:1	0.759	0.01	21.35	22.50	1.303	0.989	22.0
Right tilted	RMC	4132/826.4	1:1	0.704	0.09	21.29	22.50	1.321	0.930	22.0
Right tilted	RMC	4233/846.6	1:1	0.726	0.03	21.32	22.50	1.312	0.953	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.146	0.06	23.82	24.50	1.169	0.171	22.0
Back side	RMC	4182/836.4	1:1	0.228	-0.02	23.82	24.50	1.169	0.267	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.212	0.05	21.35	22.50	1.303	0.276	22.0
Back side	RMC	4182/836.4	1:1	0.214	0.03	21.35	22.50	1.303	0.279	22.0
Left side	RMC	4182/836.4	1:1	0.124	0.19	21.35	22.50	1.303	0.162	22.0
Top side	RMC	4182/836.4	1:1	0.275	-0.05	21.35	22.50	1.303	0.358	22.0

Table 34: SAR of WCDMA Band V for Head and Body(Original report ZR/2020/2002906).



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Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Left cheek	RMC	4182/836.4	1:1	0.132	0.03	22.94	24.00	1.276	0.168	22.0
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	4182/836.4	1:1	0.229	0.03	22.94	24.00	1.276	0.292	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Back side	RMC	4182/836.4	1:1	0.430	0.18	22.94	24.00	1.276	0.549	22.0
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data at the worst case										
Right cheek	RMC	4233/846.6	1:1	0.809	0.03	21.32	22.50	1.312	1.062	22.0
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	4182/836.4	1:1	0.236	0.05	23.82	24.50	1.169	0.276	22.0
Hotspot Test data at the worst case (Separate 10mm)										
Top side	RMC	4182/836.4	1:1	0.284	0.05	21.35	22.50	1.303	0.370	22.0

Table 35: SAR of WCDMA Band V for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.6 SAR Result of LTE Band 2

Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	18700/1860	1:1	0.251	0.15	15.56	16.50	1.242	0.312	22.1
Left tilted	20	QPSK	1_50	18700/1860	1:1	0.079	0.09	15.56	16.50	1.242	0.098	22.1
Right cheek	20	QPSK	1_50	18700/1860	1:1	0.570	-0.02	15.56	16.50	1.242	0.708	22.1
Right tilted	20	QPSK	1_50	18700/1860	1:1	0.098	0.01	15.56	16.50	1.242	0.122	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_50	19100/1900	1:1	0.277	0.08	15.66	16.50	1.213	0.336	22.1
Left tilted	20	QPSK	50_50	19100/1900	1:1	0.086	0.09	15.66	16.50	1.213	0.104	22.1
Right cheek	20	QPSK	50_50	19100/1900	1:1	0.651	0.06	15.66	16.50	1.213	0.790	22.1
Right tilted	20	QPSK	50_50	19100/1900	1:1	0.108	0.15	15.66	16.50	1.213	0.131	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	18700/1860	1:1	0.157	-0.13	22.60	23.00	1.096	0.172	22.1
Back side	20	QPSK	1_50	18700/1860	1:1	0.298	0.00	22.60	23.00	1.096	0.327	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_50	19100/1900	1:1	0.148	-0.07	21.52	22.00	1.117	0.165	22.1
Back side	20	QPSK	50_50	19100/1900	1:1	0.158	0.02	21.52	22.00	1.117	0.176	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_50	18700/1860	1:1	0.081	0.13	15.56	16.50	1.242	0.101	22.1
Back side	20	QPSK	1_50	18700/1860	1:1	0.068	0.20	15.56	16.50	1.242	0.084	22.1
Left side	20	QPSK	1_50	18700/1860	1:1	0.146	-0.01	15.56	16.50	1.242	0.181	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_50	19100/1900	1:1	0.085	0.06	15.66	16.50	1.213	0.103	22.1
Back side	20	QPSK	50_50	19100/1900	1:1	0.069	0.11	15.66	16.50	1.213	0.084	22.1
Left side	20	QPSK	50_50	19100/1900	1:1	0.218	-0.15	15.66	16.50	1.213	0.265	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	18900/1880	1:1	0.156	0.04	22.45	24.00	1.429	0.223	22.1
Left tilted	20	QPSK	1_0	18900/1880	1:1	0.131	0.08	22.45	24.00	1.429	0.187	22.1
Right cheek	20	QPSK	1_0	18900/1880	1:1	0.169	-0.02	22.45	24.00	1.429	0.241	22.1
Right tilted	20	QPSK	1_0	18900/1880	1:1	0.124	0.01	22.45	24.00	1.429	0.177	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_50	19100/1900	1:1	0.116	0.05	21.58	23.00	1.387	0.161	22.1
Left tilted	20	QPSK	50_50	19100/1900	1:1	0.092	0.09	21.58	23.00	1.387	0.127	22.1
Right cheek	20	QPSK	50_50	19100/1900	1:1	0.128	0.03	21.58	23.00	1.387	0.178	22.1
Right tilted	20	QPSK	50_50	19100/1900	1:1	0.089	0.02	21.58	23.00	1.387	0.123	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	18900/1880	1:1	0.397	-0.05	22.45	24.00	1.429	0.567	22.1
Back side	20	QPSK	1_0	18900/1880	1:1	0.483	0.00	22.45	24.00	1.429	0.690	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_50	19100/1900	1:1	0.297	0.02	21.58	23.00	1.387	0.412	22.1
Back side	20	QPSK	50_50	19100/1900	1:1	0.390	0.07	21.58	23.00	1.387	0.541	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	18900/1880	1:1	0.306	0.10	19.66	21.00	1.361	0.417	22.1



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Back side	20	QPSK	1_0	18900/1880	1:1	0.351	0.03	19.66	21.00	1.361	0.478	22.1
Left side	20	QPSK	1_0	18900/1880	1:1	0.122	0.17	19.66	21.00	1.361	0.166	22.1
Bottom side	20	QPSK	1_0	18900/1880	1:1	0.460	0.02	19.66	21.00	1.361	0.626	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_0	18900/1880	1:1	0.305	0.06	19.55	21.00	1.396	0.426	22.1
Back side	20	QPSK	50_0	18900/1880	1:1	0.347	0.15	19.55	21.00	1.396	0.485	22.1
Left side	20	QPSK	50_0	18900/1880	1:1	0.129	0.05	19.55	21.00	1.396	0.180	22.1
Bottom side	20	QPSK	50_0	18900/1880	1:1	0.566	0.06	19.55	21.00	1.396	0.790	22.1
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Product specific 10g SAR Test data(Separate 0mm 1RB)												
Bottom side	20	QPSK	1_0	18900/1880	1:1	2.150	0.09	22.45	24.00	1.429	3.072	22.1
Bottom side	20	QPSK	1_99	18700/1860	1:1	2.090	0.02	22.43	24.00	1.435	3.000	22.1
Bottom side	20	QPSK	1_50	19100/1900	1:1	2.250	0.16	22.44	24.00	1.432	3.222	22.1
Bottom side-repeat	20	QPSK	1_50	19100/1900	1:1	2.220	0.01	22.44	24.00	1.432	3.179	22.1
Product specific 10g SAR Test data(Separate 0mm 50%RB)												
Bottom side	20	QPSK	50_50	19100/1900	1:1	1.850	0.13	21.58	23.00	1.387	2.565	22.1
Bottom side	20	QPSK	50_50	18700/1860	1:1	1.770	0.01	21.53	23.00	1.403	2.483	22.1
Bottom side	20	QPSK	50_50	18900/1880	1:1	1.810	0.14	21.50	23.00	1.413	2.557	22.1
Product specific 10g SAR Test data(Separate 0mm 100%RB)												
Bottom side	20	QPSK	100_0	18900/1880	1:1	1.780	0.17	21.41	23.00	1.442	2.567	22.1

Table 36: SAR of LTE Band 2 for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	20	QPSK	50_50	19100/1900	1:1	0.628	0.09	15.66	16.50	1.213	0.762	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_50	18700/1860	1:1	0.293	0.00	22.60	23.00	1.096	0.321	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Left side	20	QPSK	50_50	19100/1900	1:1	0.211	-0.05	15.66	16.50	1.213	0.256	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	20	QPSK	1_0	18900/1880	1:1	0.165	-0.01	22.45	24.00	1.429	0.236	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_0	18900/1880	1:1	0.470	0.07	22.45	24.00	1.429	0.672	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Bottom side	20	QPSK	50_0	18900/1880	1:1	0.550	0.08	19.55	21.00	1.396	0.768	22.1
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Product specific 10g SAR Test data at the worst case (Separate 0mm)												
Bottom side	20	QPSK	1_50	19100/1900	1:1	2.170	0.06	22.44	24.00	1.432	3.108	22.1

Table 37: SAR of LTE Band 2 for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position	Channel/Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Bottom side 0mm	19100/1900	2.250	2.220	1.014	N/A	N/A

Note:

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



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8.3.7 SAR Result of LTE Band 4

Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	20175/1732.5	1:1	0.218	0.13	16.40	17.50	1.288	0.281	22.1
Left tilted	20	QPSK	1_50	20175/1732.5	1:1	0.067	0.11	16.40	17.50	1.288	0.086	22.1
Right cheek	20	QPSK	1_50	20175/1732.5	1:1	0.495	0.16	16.40	17.50	1.288	0.638	22.1
Right tilted	20	QPSK	1_50	20175/1732.5	1:1	0.095	0.11	16.40	17.50	1.288	0.122	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	20050/1720	1:1	0.221	0.12	16.57	17.50	1.239	0.274	22.1
Left tilted	20	QPSK	50_25	20050/1720	1:1	0.070	0.08	16.57	17.50	1.239	0.087	22.1
Right cheek	20	QPSK	50_25	20050/1720	1:1	0.504	0.13	16.57	17.50	1.239	0.624	22.1
Right tilted	20	QPSK	50_25	20050/1720	1:1	0.098	0.10	16.57	17.50	1.239	0.122	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	20175/1732.5	1:1	0.122	-0.17	22.23	23.50	1.340	0.163	22.1
Back side	20	QPSK	1_50	20175/1732.5	1:1	0.215	0.05	22.23	23.50	1.340	0.288	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	20050/1720	1:1	0.089	0.03	21.48	22.50	1.265	0.113	22.1
Back side	20	QPSK	50_25	20050/1720	1:1	0.103	0.07	21.48	22.50	1.265	0.130	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_50	20175/1732.5	1:1	0.059	-0.19	16.40	17.50	1.288	0.076	22.1
Back side	20	QPSK	1_50	20175/1732.5	1:1	0.070	-0.02	16.40	17.50	1.288	0.090	22.1
Left side	20	QPSK	1_50	20175/1732.5	1:1	0.144	-0.03	16.40	17.50	1.288	0.186	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	20050/1720	1:1	0.061	0.04	16.57	17.50	1.239	0.076	22.1
Back side	20	QPSK	50_25	20050/1720	1:1	0.075	-0.12	16.57	17.50	1.239	0.093	22.1
Left side	20	QPSK	50_25	20050/1720	1:1	0.130	-0.05	16.57	17.50	1.239	0.161	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	20175/1732.5	1:1	0.138	0.12	22.37	24.00	1.455	0.201	22.1
Left tilted	20	QPSK	1_50	20175/1732.5	1:1	0.102	0.02	22.37	24.00	1.455	0.148	22.1
Right cheek	20	QPSK	1_50	20175/1732.5	1:1	0.139	0.05	22.37	24.00	1.455	0.202	22.1
Right tilted	20	QPSK	1_50	20175/1732.5	1:1	0.145	0.04	22.37	24.00	1.455	0.211	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	20300/1745	1:1	0.121	0.13	21.50	23.00	1.413	0.171	22.1
Left tilted	20	QPSK	50_25	20300/1745	1:1	0.090	0.14	21.50	23.00	1.413	0.128	22.1
Right cheek	20	QPSK	50_25	20300/1745	1:1	0.109	0.15	21.50	23.00	1.413	0.154	22.1
Right tilted	20	QPSK	50_25	20300/1745	1:1	0.122	0.03	21.50	23.00	1.413	0.172	22.1



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Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	20175/1732.5	1:1	0.282	0.05	22.37	24.00	1.455	0.410	22.1
Back side	20	QPSK	1_50	20175/1732.5	1:1	0.339	0.09	22.37	24.00	1.455	0.493	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	20300/1745	1:1	0.255	0.13	21.50	23.00	1.413	0.360	22.1
Back side	20	QPSK	50_25	20300/1745	1:1	0.302	0.08	21.50	23.00	1.413	0.427	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	20300/1745	1:1	0.415	-0.16	21.48	23.00	1.419	0.589	22.1
Back side	20	QPSK	1_0	20300/1745	1:1	0.447	-0.01	21.48	23.00	1.419	0.634	22.1
Left side	20	QPSK	1_0	20300/1745	1:1	0.186	-0.09	21.48	23.00	1.419	0.264	22.1
Bottom side	20	QPSK	1_0	20300/1745	1:1	0.516	0.14	21.48	23.00	1.419	0.732	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	20300/1745	1:1	0.446	0.05	21.47	23.00	1.422	0.634	22.1
Back side	20	QPSK	50_25	20300/1745	1:1	0.479	-0.17	21.47	23.00	1.422	0.681	22.1
Left side	20	QPSK	50_25	20300/1745	1:1	0.170	-0.01	21.47	23.00	1.422	0.242	22.1
Bottom side	20	QPSK	50_25	20300/1745	1:1	0.653	0.06	21.47	23.00	1.422	0.929	22.1
Bottom side	20	QPSK	50_25	20050/1720	1:1	0.635	0.04	21.43	23.00	1.435	0.912	22.1
Bottom side	20	QPSK	50_25	20175/1732.5	1:1	0.644	0.03	21.42	23.00	1.439	0.927	22.1

Table 38: SAR of LTE Band 4 for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	20	QPSK	1_50	20175/1732.5	1:1	0.491	0.06	16.40	17.50	1.288	0.633	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_50	20175/1732.5	1:1	0.213	0.04	22.23	23.50	1.340	0.285	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Left side	20	QPSK	1_50	20175/1732.5	1:1	0.143	0.03	16.40	17.50	1.288	0.184	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right tilted	20	QPSK	1_50	20175/1732.5	1:1	0.144	0.02	22.37	24.00	1.455	0.210	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_50	20175/1732.5	1:1	0.336	-0.02	22.37	24.00	1.455	0.489	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Bottom side	20	QPSK	50_25	20300/1745	1:1	0.644	0.06	21.47	23.00	1.422	0.916	22.1

SAR of LTE Band 4 for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.8 SAR Result of LTE Band 5

Ant 1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	10	QPSK	1_0	20450/829	1:1	0.092	0.17	22.49	23.50	1.262	0.116	22.1
Left tilted	10	QPSK	1_0	20450/829	1:1	0.040	0.05	22.49	23.50	1.262	0.051	22.1
Right cheek	10	QPSK	1_0	20450/829	1:1	0.074	0.00	22.49	23.50	1.262	0.094	22.1
Right tilted	10	QPSK	1_0	20450/829	1:1	0.078	-0.12	22.49	23.50	1.262	0.098	22.1
Head Test Data(50%RB)												
Left cheek	10	QPSK	25_0	20450/829	1:1	0.075	0.01	21.47	22.50	1.268	0.095	22.1
Left tilted	10	QPSK	25_0	20450/829	1:1	0.034	0.07	21.47	22.50	1.268	0.044	22.1
Right cheek	10	QPSK	25_0	20450/829	1:1	0.066	0.00	21.47	22.50	1.268	0.084	22.1
Right tilted	10	QPSK	25_0	20450/829	1:1	0.036	-0.02	21.47	22.50	1.268	0.046	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	10	QPSK	1_0	20450/829	1:1	0.107	0.04	22.49	23.50	1.262	0.135	22.1
Back side	10	QPSK	1_0	20450/829	1:1	0.160	0.02	22.49	23.50	1.262	0.202	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	10	QPSK	25_0	20450/829	1:1	0.093	0.00	21.47	22.50	1.268	0.118	22.1
Back side	10	QPSK	25_0	20450/829	1:1	0.135	-0.04	21.47	22.50	1.268	0.171	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	10	QPSK	1_0	20450/829	1:1	0.207	-0.04	22.49	23.50	1.262	0.261	22.1
Back side	10	QPSK	1_0	20450/829	1:1	0.302	0.03	22.49	23.50	1.262	0.381	22.1
Right side	10	QPSK	1_0	20450/829	1:1	0.063	0.19	22.49	23.50	1.262	0.079	22.1
Bottom Side	10	QPSK	1_0	20450/829	1:1	0.115	0.11	22.49	23.50	1.262	0.145	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	10	QPSK	25_0	20450/829	1:1	0.180	0.19	21.47	22.50	1.268	0.228	22.1
Back side	10	QPSK	25_0	20450/829	1:1	0.237	0.05	21.47	22.50	1.268	0.300	22.1
Right side	10	QPSK	25_0	20450/829	1:1	0.055	-0.09	21.47	22.50	1.268	0.070	22.1
Bottom Side	10	QPSK	25_0	20450/829	1:1	0.098	-0.02	21.47	22.50	1.268	0.124	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	10	QPSK	1_0	20525/836.5	1:1	0.535	0.14	21.35	22.50	1.303	0.697	22.1
Left tilted	10	QPSK	1_0	20525/836.5	1:1	0.539	0.02	21.35	22.50	1.303	0.702	22.1
Right cheek	10	QPSK	1_0	20525/836.5	1:1	0.605	0.02	21.35	22.50	1.303	0.788	22.1
Right tilted	10	QPSK	1_0	20525/836.5	1:1	0.581	-0.08	21.35	22.50	1.303	0.757	22.1
Head Test Data(50%RB)												
Left cheek	10	QPSK	25_25	20525/836.5	1:1	0.585	-0.06	21.37	22.50	1.297	0.759	22.1
Left tilted	10	QPSK	25_25	20525/836.5	1:1	0.573	0.03	21.37	22.50	1.297	0.743	22.1



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Right cheek	10	QPSK	25_25	20525/836.5	1:1	0.705	0.02	21.37	22.50	1.297	0.915	22.1
Right cheek	10	QPSK	25_25	20450/829	1:1	0.673	0.03	21.21	22.50	1.346	0.906	22.1
Right cheek	10	QPSK	25_0	20600/844	1:1	0.701	0.04	21.32	22.50	1.312	0.920	22.1
Right tilted	10	QPSK	25_25	20525/836.5	1:1	0.621	0.03	21.37	22.50	1.297	0.806	22.1
Right tilted	10	QPSK	25_25	20450/829	1:1	0.616	0.06	21.21	22.50	1.346	0.829	22.1
Right tilted	10	QPSK	25_0	20600/844	1:1	0.627	0.07	21.32	22.50	1.312	0.823	22.1
Head Test Data(100%RB)												
Right cheek	10	QPSK	50_0	20600/844	1:1	0.686	0.02	21.36	22.50	1.300	0.892	22.1
Right tilted	10	QPSK	50_0	20600/844	1:1	0.607	0.06	21.36	22.50	1.300	0.789	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	10	QPSK	1_0	20525/836.5	1:1	0.135	0.18	23.75	24.50	1.189	0.160	22.1
Back side	10	QPSK	1_0	20525/836.5	1:1	0.219	-0.10	23.75	24.50	1.189	0.260	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	10	QPSK	25_25	20450/829	1:1	0.100	-0.11	22.68	23.50	1.208	0.121	22.1
Back side	10	QPSK	25_25	20450/829	1:1	0.112	-0.06	22.68	23.50	1.208	0.135	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	10	QPSK	1_0	20525/836.5	1:1	0.169	0.00	21.35	22.50	1.303	0.220	22.1
Back side	10	QPSK	1_0	20525/836.5	1:1	0.170	0.01	21.35	22.50	1.303	0.222	22.1
Left side	10	QPSK	1_0	20525/836.5	1:1	0.090	-0.10	21.35	22.50	1.303	0.117	22.1
Top side	10	QPSK	1_0	20525/836.5	1:1	0.177	-0.19	21.35	22.50	1.303	0.231	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	10	QPSK	25_25	20525/836.5	1:1	0.176	0.14	21.37	22.50	1.297	0.228	22.1
Back side	10	QPSK	25_25	20525/836.5	1:1	0.179	-0.15	21.37	22.50	1.297	0.232	22.1
Left side	10	QPSK	25_25	20525/836.5	1:1	0.095	-0.08	21.37	22.50	1.297	0.123	22.1
Top side	10	QPSK	25_25	20525/836.5	1:1	0.241	0.17	21.37	22.50	1.297	0.313	22.1

Table 39: SAR of LTE Band 5 for Head and Body(Original report ZR/2020/2002906).



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Ant 1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Left cheek	10	QPSK	1_0	20450/829	1:1	0.095	0.07	22.49	23.50	1.262	0.120	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	10	QPSK	1_0	20450/829	1:1	0.165	-0.01	22.49	23.50	1.262	0.208	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Back side	10	QPSK	1_0	20450/829	1:1	0.311	-0.03	22.49	23.50	1.262	0.392	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	10	QPSK	25_0	20600/844	1:1	0.722	0.03	21.32	22.50	1.312	0.947	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	10	QPSK	1_0	20525/836.5	1:1	0.226	0.01	23.75	24.50	1.189	0.269	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Top side	10	QPSK	25_25	20525/836.5	1:1	0.249	0.01	21.37	22.50	1.297	0.323	22.1

Table 40: SAR of LTE Band 5 for Head and Body(Variant).

Note:

- 1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3)Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:



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8.3.9 SAR Result of LTE Band 7

Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	20850/2510	1:1	0.141	0.04	13.90	14.50	1.148	0.162	22.1
Left tilted	20	QPSK	1_50	20850/2510	1:1	0.044	0.01	13.90	14.50	1.148	0.051	22.1
Right cheek	20	QPSK	1_50	20850/2510	1:1	0.430	0.09	13.90	14.50	1.148	0.494	22.1
Right tilted	20	QPSK	1_50	20850/2510	1:1	0.091	0.08	13.90	14.50	1.148	0.104	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	20850/2510	1:1	0.143	0.14	13.77	14.50	1.183	0.169	22.1
Left tilted	20	QPSK	50_25	20850/2510	1:1	0.045	0.05	13.77	14.50	1.183	0.053	22.1
Right cheek	20	QPSK	50_25	20850/2510	1:1	0.428	-0.19	13.77	14.50	1.183	0.506	22.1
Right cheek	20	QPSK	PCC 1_99	20850/2510	1:1	0.412	-0.05	14.19	14.50	1.074	0.442	22.1
			SCC 1_0	21048/2529.8								
Right tilted	20	QPSK	50_25	20850/2510	1:1	0.087	0.05	13.77	14.50	1.183	0.103	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	21350/2560	1:1	0.189	-0.02	20.29	21.00	1.178	0.223	22.1
Back side	20	QPSK	1_0	21350/2560	1:1	0.238	0.07	20.29	21.00	1.178	0.280	22.1
Back side	20	QPSK	PCC 1_0	21350/2560	1:1	0.193	-0.11	20.53	21.00	1.114	0.215	22.1
			SCC 1_99	21152/2540.2								
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_0	21100/2535	1:1	0.145	-0.18	19.44	20.00	1.138	0.165	22.1
Front side	20	QPSK	50_0	21100/2535	1:1	0.141	-0.08	19.44	20.00	1.138	0.160	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_50	20850/2510	1:1	0.075	-0.08	13.90	14.50	1.148	0.086	22.1
Back side	20	QPSK	1_50	20850/2510	1:1	0.071	-0.08	13.90	14.50	1.148	0.082	22.1
Left side	20	QPSK	1_50	20850/2510	1:1	0.104	0.15	13.90	14.50	1.148	0.119	22.1
Left side	20	QPSK	PCC 1_99	20850/2510	1:1	0.093	-0.01	14.19	14.50	1.074	0.100	22.1
			SCC 1_0	21048/2529.8								
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	20850/2510	1:1	0.074	0.02	13.77	14.50	1.183	0.088	22.1
Back side	20	QPSK	50_25	20850/2510	1:1	0.069	-0.13	13.77	14.50	1.183	0.082	22.1
Left side	20	QPSK	50_25	20850/2510	1:1	0.081	-0.11	13.77	14.50	1.183	0.096	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	21350/2560	1:1	0.212	0.09	23.16	24.00	1.213	0.257	22.1
Left cheek	20	QPSK	PCC 1_0	21350/2560	1:1	0.203	0.11	23.12	24.00	1.225	0.249	22.1
			SCC 1_99	21152/2540.2								



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Left tilted	20	QPSK	1_0	21350/2560	1:1	0.086	0.00	23.16	24.00	1.213	0.105	22.1
Right cheek	20	QPSK	1_0	21350/2560	1:1	0.151	0.09	23.16	24.00	1.213	0.183	22.1
Right tilted	20	QPSK	1_0	21350/2560	1:1	0.056	0.00	23.16	24.00	1.213	0.068	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	20850/2510	1:1	0.176	0.00	22.25	23.00	1.189	0.209	22.1
Left tilted	20	QPSK	50_25	20850/2510	1:1	0.069	0.00	22.25	23.00	1.189	0.082	22.1
Right cheek	20	QPSK	50_25	20850/2510	1:1	0.140	0.01	22.25	23.00	1.189	0.166	22.1
Right tilted	20	QPSK	50_25	20850/2510	1:1	0.041	-0.08	22.25	23.00	1.189	0.048	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	21350/2560	1:1	0.317	-0.16	23.16	24.00	1.213	0.385	22.1
Back side	20	QPSK	1_0	21350/2560	1:1	0.449	-0.05	23.16	24.00	1.213	0.545	22.1
Back side	20	QPSK	PCC 1_0	21350/2560	1:1	0.385	0.03	23.12	24.00	1.225	0.471	22.1
			SCC 1_99	21152/2540.2								
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	20850/2510	1:1	0.251	0.19	22.25	23.00	1.189	0.298	22.1
Back side	20	QPSK	50_25	20850/2510	1:1	0.312	-0.19	22.25	23.00	1.189	0.371	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_99	20850/2510	1:1	0.234	0.16	18.59	20.00	1.384	0.324	22.1
Back side	20	QPSK	1_99	20850/2510	1:1	0.289	0.16	18.59	20.00	1.384	0.400	22.1
Left side	20	QPSK	1_99	20850/2510	1:1	0.102	-0.14	18.59	20.00	1.384	0.141	22.1
Bottom side	20	QPSK	1_99	20850/2510	1:1	0.264	-0.07	18.59	20.00	1.384	0.365	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_50	20850/2510	1:1	0.232	0.04	18.57	20.00	1.390	0.322	22.1
Back side	20	QPSK	50_50	20850/2510	1:1	0.386	0.08	18.57	20.00	1.390	0.537	22.1
Back side	20	QPSK	PCC 1_99	20850/2510	1:1	0.334	0.02	19.59	20.00	1.099	0.367	22.1
			SCC 1_0	21048/2529.8								
Left side	20	QPSK	50_50	20850/2510	1:1	0.107	0.00	18.57	20.00	1.390	0.149	22.1
Bottom side	20	QPSK	50_50	20850/2510	1:1	0.273	0.15	18.57	20.00	1.390	0.379	22.1

Table 41: SAR of LTE Band 7 for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	20	QPSK	50_25	20850/2510	1:1	0.433	-0.09	13.77	14.50	1.183	0.512	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_0	21350/2560	1:1	0.241	0.05	20.29	21.00	1.178	0.284	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Left side	20	QPSK	1_50	20850/2510	1:1	0.105	0.05	13.90	14.50	1.148	0.121	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Left cheek	20	QPSK	1_0	21350/2560	1:1	0.208	0.08	23.16	24.00	1.213	0.252	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_0	21350/2560	1:1	0.443	-0.02	23.16	24.00	1.213	0.538	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Back side	20	QPSK	50_50	20850/2510	1:1	0.390	0.08	18.57	20.00	1.390	0.542	22.1

Table 42: SAR of LTE Band 7 for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:



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8.3.10 SAR Result of LTE Band 26

Ant 1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	15	QPSK	1_0	26765/821.5	1:1	0.057	0.09	22.75	24.00	1.334	0.076	22.1
Left tilted	15	QPSK	1_0	26765/821.5	1:1	0.031	0.03	22.75	24.00	1.334	0.041	22.1
Right cheek	15	QPSK	1_0	26765/821.5	1:1	0.049	0.06	22.75	24.00	1.334	0.066	22.1
Right tilted	15	QPSK	1_0	26765/821.5	1:1	0.031	0.02	22.75	24.00	1.334	0.041	22.1
Head Test Data(50%RB)												
Left cheek	15	QPSK	36_18	26865/831.5	1:1	0.092	0.04	21.82	23.00	1.312	0.120	22.1
Left tilted	15	QPSK	36_18	26865/831.5	1:1	0.037	0.07	21.82	23.00	1.312	0.048	22.1
Right cheek	15	QPSK	36_18	26865/831.5	1:1	0.059	0.03	21.82	23.00	1.312	0.078	22.1
Right tilted	15	QPSK	36_18	26865/831.5	1:1	0.037	0.04	21.82	23.00	1.312	0.049	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	15	QPSK	1_0	26765/821.5	1:1	0.079	-0.18	22.75	24.00	1.334	0.105	22.1
Back side	15	QPSK	1_0	26765/821.5	1:1	0.112	-0.06	22.75	24.00	1.334	0.149	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	36_18	26865/831.5	1:1	0.104	-0.12	21.82	23.00	1.312	0.136	22.1
Back side	20	QPSK	36_18	26865/831.5	1:1	0.169	0.08	21.82	23.00	1.312	0.222	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	26765/821.5	1:1	0.152	-0.14	22.75	24.00	1.334	0.203	22.1
Back side	20	QPSK	1_0	26765/821.5	1:1	0.210	0.16	22.75	24.00	1.334	0.280	22.1
Right side	20	QPSK	1_0	26765/821.5	1:1	0.046	-0.06	22.75	24.00	1.334	0.061	22.1
Bottom side	20	QPSK	1_0	26765/821.5	1:1	0.096	-0.11	22.75	24.00	1.334	0.128	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	36_18	26865/831.5	1:1	0.199	-0.11	21.82	23.00	1.312	0.261	22.1
Back side	20	QPSK	36_18	26865/831.5	1:1	0.256	0.02	21.82	23.00	1.312	0.336	22.1
Right side	20	QPSK	36_18	26865/831.5	1:1	0.070	-0.05	21.82	23.00	1.312	0.092	22.1
Bottom side	20	QPSK	36_18	26865/831.5	1:1	0.112	-0.15	21.82	23.00	1.312	0.147	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	15	QPSK	1_0	26765/821.5	1:1	0.355	-0.09	21.05	22.50	1.396	0.496	22.1
Left tilted	15	QPSK	1_0	26765/821.5	1:1	0.387	0.05	21.05	22.50	1.396	0.540	22.1
Right cheek	15	QPSK	1_0	26765/821.5	1:1	0.443	-0.08	21.05	22.50	1.396	0.619	22.1
Right tilted	15	QPSK	1_0	26765/821.5	1:1	0.382	0.06	21.05	22.50	1.396	0.533	22.1
Head Test Data(50%RB)												
Left cheek	15	QPSK	36_18	26865/831.5	1:1	0.473	0.06	21.17	22.50	1.358	0.642	22.1
Left tilted	15	QPSK	36_18	26865/831.6	1:1	0.512	-0.02	21.17	22.50	1.358	0.695	22.1



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Right cheek	15	QPSK	36_18	26865/831.5	1:1	0.743	-0.01	21.17	22.50	1.358	1.009	22.1
Right cheek	15	QPSK	36_18	26765/821.5	1:1	0.737	-0.11	21.15	22.50	1.365	1.006	22.1
Right cheek	15	QPSK	36_18	26965/841.5	1:1	0.736	0.12	21.16	22.50	1.361	1.002	22.1
Right tilted	15	QPSK	36_18	26865/831.8	1:1	0.469	-0.08	21.17	22.50	1.358	0.637	22.1
Head Test Data(100%RB)												
Right cheek	15	QPSK	75_0	26965/841.5	1:1	0.684	0.01	21.17	22.50	1.358	0.929	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	15	QPSK	1_0	26765/821.5	1:1	0.109	0.02	23.50	25.00	1.413	0.154	22.1
Back side	15	QPSK	1_0	26765/821.5	1:1	0.126	0.00	23.50	25.00	1.413	0.178	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	15	QPSK	36_39	26865/831.5	1:1	0.118	0.08	22.56	24.00	1.393	0.164	22.1
Back side	15	QPSK	36_39	26865/831.5	1:1	0.170	-0.03	22.56	24.00	1.393	0.237	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	15	QPSK	1_0	26765/821.5	1:1	0.116	0.09	21.05	22.50	1.396	0.162	22.1
Back side	15	QPSK	1_0	26765/821.5	1:1	0.167	0.07	21.05	22.50	1.396	0.233	22.1
Left side	15	QPSK	1_0	26765/821.5	1:1	0.097	-0.03	21.05	22.50	1.396	0.136	22.1
Top side	15	QPSK	1_0	26765/821.5	1:1	0.147	-0.07	21.05	22.50	1.396	0.205	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	15	QPSK	36_18	26865/831.5	1:1	0.154	0.01	21.17	22.50	1.358	0.209	22.1
Back side	15	QPSK	36_39	26865/831.5	1:1	0.342	-0.07	21.06	22.50	1.393	0.476	22.1
Left side	15	QPSK	36_18	26865/831.5	1:1	0.108	-0.09	21.17	22.50	1.358	0.147	22.1
Top side	15	QPSK	36_18	26865/831.5	1:1	0.171	-0.06	21.17	22.50	1.358	0.232	22.1

Table 43: SAR of LTE Band 26 for Head and Body(Variant).

Note:

- 4) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 5) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 6) Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:



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8.3.11 SAR Result of LTE Band 38

Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	38150/2610	1:1.58	0.178	0.05	16.88	17.50	1.153	0.205	22.1
Left tilted	20	QPSK	1_0	38150/2610	1:1.58	0.062	0.08	16.88	17.50	1.153	0.071	22.1
Right cheek	20	QPSK	1_0	38150/2610	1:1.58	0.503	0.02	16.88	17.50	1.153	0.580	22.1
Right cheek	20	QPSK	PCC 1_0	38150/2610	1:1.58	0.473	0.15	17.11	17.50	1.094	0.517	22.1
			SCC 1_99	37952/2590.2								
Right tilted	20	QPSK	1_0	38150/2610	1:1.58	0.111	0.08	16.88	17.50	1.153	0.128	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	38150/2610	1:1.58	0.183	0.03	16.86	17.50	1.159	0.212	22.1
Left tilted	20	QPSK	50_25	38150/2610	1:1.58	0.063	-0.04	16.86	17.50	1.159	0.073	22.1
Right cheek	20	QPSK	50_25	38150/2610	1:1.58	0.497	0.04	16.86	17.50	1.159	0.576	22.1
Right tilted	20	QPSK	50_25	38150/2610	1:1.58	0.109	0.09	16.86	17.50	1.159	0.126	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	38000/2595	1:1.58	0.193	-0.16	22.27	23.00	1.183	0.228	22.1
Back side	20	QPSK	1_0	38000/2595	1:1.58	0.229	-0.09	22.27	23.00	1.183	0.271	22.1
Back side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.207	-0.06	22.51	23.00	1.119	0.232	22.1
			SCC 1_0	38048/2599.8								
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	38150/2610	1:1.58	0.149	-0.13	21.31	22.00	1.172	0.175	22.1
Back side	20	QPSK	50_25	38150/2610	1:1.58	0.155	0.17	21.31	22.00	1.172	0.182	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	38150/2610	1:1.58	0.101	-0.06	16.88	17.50	1.153	0.116	22.1
Back side	20	QPSK	1_0	38150/2610	1:1.58	0.112	0.19	16.88	17.50	1.153	0.129	22.1
Left side	20	QPSK	1_0	38150/2610	1:1.58	0.160	0.10	16.88	17.50	1.153	0.185	22.1
Left side	20	QPSK	PCC 1_0	38150/2610	1:1.58	0.147	-0.03	17.11	17.50	1.094	0.161	22.1
			SCC 1_99	37952/2590.2								
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	38150/2610	1:1.58	0.106	-0.14	16.86	17.50	1.159	0.123	22.1
Back side	20	QPSK	50_25	38150/2610	1:1.58	0.102	0.18	16.86	17.50	1.159	0.118	22.1
Left side	20	QPSK	50_25	38150/2610	1:1.58	0.139	-0.05	16.86	17.50	1.159	0.161	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	38000/2595	1:1.58	0.130	-0.01	23.21	24.00	1.199	0.156	22.1
Left cheek	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.104	0.05	23.42	24.00	1.143	0.119	22.1
			SCC 1_0	38048/2599.8								



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Left tilted	20	QPSK	1_50	38000/2595	1:1.58	0.044	0.00	23.21	24.00	1.199	0.052	22.1
Right cheek	20	QPSK	1_50	38000/2595	1:1.58	0.084	-0.02	23.21	24.00	1.199	0.101	22.1
Right tilted	20	QPSK	1_50	38000/2595	1:1.58	0.036	0.00	23.21	24.00	1.199	0.043	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	38150/2610	1:1.58	0.108	0.00	22.26	23.00	1.186	0.128	22.1
Left tilted	20	QPSK	50_25	38150/2610	1:1.58	0.051	0.00	22.26	23.00	1.186	0.061	22.1
Right cheek	20	QPSK	50_25	38150/2610	1:1.58	0.083	-0.03	22.26	23.00	1.186	0.098	22.1
Right tilted	20	QPSK	50_25	38150/2610	1:1.58	0.034	-0.02	22.26	23.00	1.186	0.040	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	38000/2595	1:1.58	0.189	0.06	23.21	24.00	1.199	0.227	22.1
Back side	20	QPSK	1_50	38000/2595	1:1.58	0.279	0.11	23.21	24.00	1.199	0.335	22.1
Back side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.237	0.04	23.42	24.00	1.143	0.271	22.1
			SCC 1_0	38048/2599.8								
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	38150/2610	1:1.58	0.149	-0.01	22.26	23.00	1.186	0.177	22.1
Back side	20	QPSK	50_25	38150/2610	1:1.58	0.186	0.13	22.26	23.00	1.186	0.221	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	37850/2580	1:1.58	0.220	-0.19	20.66	22.00	1.361	0.300	22.1
Back side	20	QPSK	1_0	37850/2580	1:1.58	0.384	0.04	20.66	22.00	1.361	0.523	22.1
Back side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.351	0.13	21.74	22.00	1.062	0.373	22.1
			SCC 1_0	38048/2599.8								
Left side	20	QPSK	1_0	37850/2580	1:1.58	0.097	0.05	20.66	22.00	1.361	0.132	22.1
Bottom side	20	QPSK	1_0	37850/2580	1:1.58	0.270	-0.16	20.66	22.00	1.361	0.368	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	38000/2595	1:1.58	0.218	-0.13	20.62	22.00	1.374	0.300	22.1
Back side	20	QPSK	50_25	38000/2595	1:1.58	0.284	-0.14	20.62	22.00	1.374	0.390	22.1
Left side	20	QPSK	50_25	38000/2595	1:1.58	0.088	-0.12	20.62	22.00	1.374	0.121	22.1
Bottom side	20	QPSK	50_25	38000/2595	1:1.58	0.272	-0.15	20.62	22.00	1.374	0.374	22.1

Table 44: SAR of LTE Band 38 for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	20	QPSK	1_0	38150/2610	1:1.58	0.507	0.02	16.88	17.50	1.153	0.585	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_0	38000/2595	1:1.58	0.231	-0.08	22.27	23.00	1.183	0.273	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Left side	20	QPSK	1_0	38150/2610	1:1.58	0.161	0.01	16.88	17.50	1.153	0.186	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Left cheek	20	QPSK	1_50	38000/2595	1:1.58	0.125	-0.04	23.21	24.00	1.199	0.150	22.1
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_50	38000/2595	1:1.58	0.280	0.01	23.21	24.00	1.199	0.336	22.1
Hotspot Test data at the worst case (Separate 10mm)												
Back side	20	QPSK	1_0	37850/2580	1:1.58	0.383	0.02	20.66	22.00	1.361	0.521	22.1

Table 45: SAR of LTE Band 38 for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.12 SAR Result of LTE Band 41

Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	40185/2549.5	1:1.58	0.151	0.02	15.76	16.50	1.186	0.179	22.1
Left tilted	20	QPSK	1_0	40185/2549.5	1:1.58	0.047	-0.08	15.76	16.50	1.186	0.055	22.1
Right cheek	20	QPSK	1_0	40185/2549.5	1:1.58	0.430	0.04	15.76	16.50	1.186	0.510	22.1
Right tilted	20	QPSK	1_0	40620/2593	1:1.58	0.081	0.08	15.76	16.50	1.186	0.096	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	41490/2680	1:1.58	0.116	0.01	15.84	16.50	1.164	0.135	22.1
Left tilted	20	QPSK	50_25	41490/2680	1:1.58	0.037	0.03	15.84	16.50	1.164	0.042	22.1
Right cheek	20	QPSK	50_25	41490/2680	1:1.58	0.318	-0.02	15.84	16.50	1.164	0.370	22.1
Right tilted	20	QPSK	50_25	41490/2680	1:1.58	0.063	0.06	15.84	16.50	1.164	0.073	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	41490/2680	1:1.58	0.150	0.01	22.68	23.50	1.208	0.181	22.1
Back side	20	QPSK	1_50	41490/2680	1:1.58	0.183	-0.14	22.68	23.50	1.208	0.221	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_50	41490/2680	1:1.58	0.122	-0.10	21.72	22.50	1.197	0.146	22.1
Back side	20	QPSK	50_50	41490/2680	1:1.58	0.119	-0.05	21.72	22.50	1.197	0.142	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	40185/2549.5	1:1.58	0.080	-0.18	15.76	16.50	1.186	0.095	22.1
Back side	20	QPSK	1_0	40185/2549.5	1:1.58	0.073	-0.12	15.76	16.50	1.186	0.087	22.1
Left side	20	QPSK	1_0	40185/2549.5	1:1.58	0.098	0.05	15.76	16.50	1.186	0.116	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	41490/2680	1:1.58	0.080	-0.09	15.84	16.50	1.164	0.093	22.1
Back side	20	QPSK	50_25	41490/2680	1:1.58	0.071	-0.19	15.84	16.50	1.164	0.083	22.1
Left side	20	QPSK	50_25	41490/2680	1:1.58	0.135	0.06	15.84	16.50	1.164	0.157	22.1
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	39750/2506	1:1.58	0.146	0.06	22.64	24.00	1.368	0.200	22.1
Left tilted	20	QPSK	1_0	39750/2506	1:1.58	0.044	0.00	22.64	24.00	1.368	0.060	22.1
Right cheek	20	QPSK	1_0	39750/2506	1:1.58	0.076	0.00	22.64	24.00	1.368	0.104	22.1
Right tilted	20	QPSK	1_0	39750/2506	1:1.58	0.032	-0.01	22.64	24.00	1.368	0.043	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	39750/2506	1:1.58	0.102	0.00	21.68	23.00	1.355	0.138	22.1
Left tilted	20	QPSK	50_25	39750/2506	1:1.58	0.036	0.02	21.68	23.00	1.355	0.049	22.1
Right cheek	20	QPSK	50_25	39750/2506	1:1.58	0.086	-0.01	21.68	23.00	1.355	0.116	22.1
Right tilted	20	QPSK	50_25	39750/2506	1:1.58	0.025	-0.04	21.68	23.00	1.355	0.034	22.1

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Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	39750/2506	1:1.58	0.180	-0.11	22.64	24.00	1.368	0.246	22.1
Back side	20	QPSK	1_0	39750/2506	1:1.58	0.265	-0.01	22.64	24.00	1.368	0.362	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	39750/2506	1:1.58	0.140	-0.12	21.68	23.00	1.355	0.190	22.1
Back side	20	QPSK	50_25	39750/2506	1:1.58	0.180	-0.18	21.68	23.00	1.355	0.244	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	39750/2506	1:1.58	0.197	-0.03	20.15	21.50	1.365	0.269	22.1
Back side	20	QPSK	1_0	39750/2506	1:1.58	0.248	0.00	20.15	21.50	1.365	0.338	22.1
Left side	20	QPSK	1_0	39750/2506	1:1.58	0.087	0.16	20.15	21.50	1.365	0.119	22.1
Bottom side	20	QPSK	1_0	39750/2506	1:1.58	0.232	-0.15	20.15	21.50	1.365	0.317	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	40185/2549.5	1:1.58	0.198	-0.14	20.08	21.50	1.387	0.275	22.1
Back side	20	QPSK	50_25	40185/2549.5	1:1.58	0.348	0.03	20.08	21.50	1.387	0.483	22.1
Left side	20	QPSK	50_25	40185/2549.5	1:1.58	0.091	0.00	20.08	21.50	1.387	0.126	22.1
Bottom side	20	QPSK	50_25	40185/2549.5	1:1.58	0.247	-0.04	20.08	21.50	1.387	0.343	22.1

Table 46: SAR of LTE Band 41 for Head and Body(Original report ZR/2020/2002906).



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Ant 5 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Right cheek	20	QPSK	1_0	40185/2549.5	1:1.58	0.427	0.08	15.76	16.50	1.186	0.506	22.1
Right cheek	20	QPSK	PCC 1_0	40185/2549.5	1:1.58	0.405	-0.04	15.61	16.50	1.227	0.497	22.1
			SCC 1_99	39987/2529.7								
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_50	41490/2680	1:1.58	0.184	-0.04	22.68	23.50	1.208	0.222	22.1
Back side	20	QPSK	PCC 1_0	41490/2680	1:1.58	0.174	0.10	22.51	23.50	1.256	0.219	22.1
			SCC 1_99	41292/2660.2								
Hotspot Test data at the worst case (Separate 10mm)												
Left side	20	QPSK	50_25	41490/2680	1:1.58	0.136	0.06	15.84	16.50	1.164	0.158	22.1
Left side	20	QPSK	PCC 1_0	41490/2680	1:1.58	0.127	0.16	15.66	16.50	1.213	0.154	22.1
			SCC 1_99	41292/2660.2								
Ant 10 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data at the worst case												
Left cheek	20	QPSK	1_0	39750/2506	1:1.58	0.145	0.07	22.64	24.00	1.368	0.198	22.1
Left cheek	20	QPSK	PCC 1_99	39750/2506	1:1.58	0.139	0.11	22.52	24.00	1.406	0.195	22.1
			SCC 1_0	39948/2525.8								
Body worn Test data at the worst case (Separate 15mm)												
Back side	20	QPSK	1_0	39750/2506	1:1.58	0.264	-0.01	22.64	24.00	1.368	0.361	22.1
Back side	20	QPSK	PCC 1_99	39750/2506	1:1.58	0.253	0.00	22.52	24.00	1.406	0.356	22.1
			SCC 1_0	39948/2525.8								
Hotspot Test data at the worst case (Separate 10mm)												
Back side	20	QPSK	50_25	40185/2549.5	1:1.58	0.346	0.04	20.08	21.50	1.387	0.480	22.1
Back side	20	QPSK	PCC 1_99	40185/2549.5	1:1.58	0.331	0.01	19.93	21.50	1.435	0.475	22.1
			SCC 1_0	40383/2569.3								

Table 47: SAR of LTE Band 41 for Head and Body(Variant).

Note:

- 1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.13 SAR Result of WIFI 2.4G

Ant8(Chian0) Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	99.04%	1.010	0.237	0.05	14.06	15.50	1.393	0.333	22
Left tilted	802.11b	6/2437	99.04%	1.010	0.054	0.01	14.06	15.50	1.393	0.076	22
Right cheek	802.11b	6/2437	99.04%	1.010	0.093	-0.03	14.06	15.50	1.393	0.130	22
Right tilted	802.11b	6/2437	99.04%	1.010	0.016	0.02	14.06	15.50	1.393	0.022	22
Body worn Test data(Separate 15mm)											
Front side	802.11b	1/2412	99.04%	1.010	0.096	0.01	19.07	19.50	1.104	0.106	22
Back side	802.11b	1/2412	99.04%	1.010	0.151	0.16	19.07	19.50	1.104	0.168	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	1/2412	99.04%	1.010	0.193	-0.15	19.07	19.50	1.104	0.215	22
Back side	802.11b	1/2412	99.04%	1.010	0.196	0.07	19.07	19.50	1.104	0.218	22
Right side	802.11b	1/2412	99.04%	1.010	0.317	-0.12	19.07	19.50	1.104	0.353	22
Top side	802.11b	1/2412	99.04%	1.010	0.025	0.01	19.07	19.50	1.104	0.028	22
MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	98.57%	1.015	0.301	0.05	17.05	18.50	1.396	0.426	22
Left tilted	802.11b	6/2437	98.57%	1.015	0.157	-0.03	17.05	18.50	1.396	0.222	22
Right cheek	802.11b	6/2437	98.57%	1.015	0.098	0.01	17.05	18.50	1.396	0.139	22
Right tilted	802.11b	6/2437	98.57%	1.015	0.119	0.05	17.05	18.50	1.396	0.169	22
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	98.57%	1.015	0.166	0.09	22.08	22.50	1.102	0.186	22
Back side	802.11b	6/2437	98.57%	1.015	0.207	0.04	22.08	22.50	1.102	0.231	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	98.57%	1.015	0.287	0.02	22.08	22.50	1.102	0.321	22
Back side	802.11b	6/2437	98.57%	1.015	0.264	0.01	22.08	22.50	1.102	0.295	22
Right side	802.11b	6/2437	98.57%	1.015	0.720	-0.02	22.08	22.50	1.102	0.805	22
Right side	802.11b	1/2412	98.57%	1.015	0.704	-0.01	22.06	22.50	1.107	0.790	22
Top side	802.11b	6/2437	98.57%	1.015	0.220	-0.04	22.08	22.50	1.102	0.246	22

Table 48: SAR of WIFI 2.4G for Head and Body(Original report ZR/2020/2002906).



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Ant8(Chian0) Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test Data at the worst case											
Left cheek	802.11b	6/2437	99.04%	1.010	0.236	0.06	14.06	15.50	1.393	0.332	22
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11b	1/2412	99.04%	1.010	0.148	0.16	19.07	19.50	1.104	0.165	22
Hotspot Test data at the worst case (Separate 10mm)											
Right side	802.11b	1/2412	99.04%	1.010	0.311	-0.11	19.07	19.50	1.104	0.347	22
MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test Data at the worst case											
Left cheek	802.11b	6/2437	98.57%	1.015	0.300	0.02	17.05	18.50	1.396	0.425	22
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11b	6/2437	98.57%	1.015	0.203	0.04	22.08	22.50	1.102	0.227	22
Hotspot Test data at the worst case (Separate 10mm)											
Right side	802.11b	6/2437	98.57%	1.015	0.412	-0.08	22.08	22.50	1.102	0.460	22

Table 49: SAR of WIFI 2.4G for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.
- 4) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.14 SAR Result of WIFI 5G

Ant7(Chian1) Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	52/5260	96.67%	1.034	0.672	0.08	12.97	13.50	1.130	0.785	22.2
Left tilted	802.11a	52/5260	96.67%	1.034	0.367	0.12	12.97	13.50	1.130	0.429	22.2
Right cheek	802.11a	52/5260	96.67%	1.034	0.187	0.06	12.97	13.50	1.130	0.219	22.2
Right tilted	802.11a	52/5260	96.67%	1.034	0.154	0.05	12.97	13.50	1.130	0.180	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	120/5600	96.67%	1.034	0.157	0.04	13.41	13.50	1.021	0.166	22.2
Left tilted	802.11a	120/5600	96.67%	1.034	0.076	0.02	13.41	13.50	1.021	0.081	22.2
Right cheek	802.11a	120/5600	96.67%	1.034	0.045	0.01	13.41	13.50	1.021	0.048	22.2
Right tilted	802.11a	120/5600	96.67%	1.034	0.044	0.01	13.41	13.50	1.021	0.046	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	96.67%	1.034	0.247	0.07	13.30	13.50	1.047	0.268	22.2
Left tilted	802.11a	157/5785	96.67%	1.034	0.226	0.07	13.30	13.50	1.047	0.245	22.2
Right cheek	802.11a	157/5785	96.67%	1.034	0.094	0.03	13.30	13.50	1.047	0.101	22.2
Right tilted	802.11a	157/5785	96.67%	1.034	0.100	0.03	13.30	13.50	1.047	0.108	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	96.67%	1.034	0.213	0.08	17.58	18.00	1.102	0.243	22.2
Back side	802.11a	52/5260	96.67%	1.034	0.386	-0.04	17.58	18.00	1.102	0.440	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	120/5600	96.67%	1.034	0.082	-0.01	17.50	18.00	1.122	0.095	22.2
Back side	802.11a	120/5600	96.67%	1.034	0.635	0.06	17.50	18.00	1.122	0.737	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	96.67%	1.034	0.056	0.01	17.38	18.00	1.153	0.067	22.2
Back side	802.11a	157/5785	96.67%	1.034	0.324	0.01	17.38	18.00	1.153	0.387	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	96.67%	1.034	0.345	0.01	17.56	18.00	1.107	0.395	22.2
Back side	802.11a	48/5240	96.67%	1.034	0.659	0.06	17.56	18.00	1.107	0.754	22.2
Right side	802.11a	48/5240	96.67%	1.034	0.274	0.03	17.56	18.00	1.107	0.314	22.2
Top side	802.11a	48/5240	96.67%	1.034	0.373	0.10	17.56	18.00	1.107	0.427	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	96.67%	1.034	0.083	-0.02	17.38	18.00	1.153	0.099	22.2
Back side	802.11a	157/5785	96.67%	1.034	0.913	0.01	17.38	18.00	1.153	1.089	22.2
Back side-repeat	802.11a	157/5785	96.67%	1.034	0.907	0.05	17.38	18.00	1.153	1.082	22.2
Back side	802.11a	149/5745	96.67%	1.034	0.741	0.04	17.21	18.00	1.199	0.919	22.2
Right side	802.11a	157/5785	96.67%	1.034	0.330	0.05	17.38	18.00	1.153	0.394	22.2
Top side	802.11a	157/5785	96.67%	1.034	0.378	0.06	17.38	18.00	1.153	0.451	22.2
Additional Test data(simultaneous transmission with WWAN + WiFi 5G Ant7(Chain1) Receiver on)											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	60/5300	96.67%	1.034	0.435	0.16	10.99	11.50	1.125	0.506	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Back side	802.11a	157/5785	96.67%	1.034	0.453	0.08	16.09	16.50	1.099	0.515	22.2



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Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	96.67%	1.034	0.848	0.02	17.58	18.00	1.102	0.966	22.2
Back side	802.11a	52/5260	96.67%	1.034	1.040	0.06	17.58	18.00	1.102	1.185	22.2
Right side	802.11a	52/5260	96.67%	1.034	0.667	0.01	17.58	18.00	1.102	0.760	22.2
Top side	802.11a	52/5260	96.67%	1.034	0.665	0.10	17.58	18.00	1.102	0.758	22.2
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	120/5600	96.67%	1.034	0.282	0.00	17.50	18.00	1.122	0.327	22.2
Back side	802.11a	120/5600	96.67%	1.034	1.240	0.03	17.50	18.00	1.122	1.439	22.2
Right side	802.11a	120/5600	96.67%	1.034	0.661	0.04	17.50	18.00	1.122	0.767	22.2
Top side	802.11a	120/5600	96.67%	1.034	0.336	0.01	17.50	18.00	1.122	0.390	22.2
MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	52/5260	97.59%	1.025	0.922	0.05	15.89	16.50	1.151	1.087	22.2
Left cheek-repeat	802.11a	52/5260	97.59%	1.025	0.912	0.01	15.89	16.50	1.151	1.075	22.2
Left cheek	802.11a	60/5300	97.59%	1.025	0.580	0.02	15.66	16.50	1.213	0.721	22.2
Left tilted	802.11a	52/5260	97.59%	1.025	0.504	0.01	15.89	16.50	1.151	0.594	22.2
Right cheek	802.11a	52/5260	97.59%	1.025	0.241	0.08	15.89	16.50	1.151	0.284	22.2
Right tilted	802.11a	52/5260	97.59%	1.025	0.242	0.01	15.89	16.50	1.151	0.285	22.2
Head Test data of U-NII-2C											
Left cheek	802.11a	120/5600	97.59%	1.025	0.304	0.01	15.76	16.50	1.186	0.369	22.2
Left tilted	802.11a	120/5600	97.59%	1.025	0.231	0.07	15.76	16.50	1.186	0.281	22.2
Right cheek	802.11a	120/5600	97.59%	1.025	0.102	0.03	15.76	16.50	1.186	0.124	22.2
Right tilted	802.11a	120/5600	97.59%	1.025	0.103	0.06	15.76	16.50	1.186	0.125	22.2
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	97.59%	1.025	0.352	0.16	15.08	16.50	1.387	0.500	22.2
Left tilted	802.11a	157/5785	97.59%	1.025	0.320	0.11	15.08	16.50	1.387	0.455	22.2
Right cheek	802.11a	157/5785	97.59%	1.025	0.147	0.05	15.08	16.50	1.387	0.209	22.2
Right tilted	802.11a	157/5785	97.59%	1.025	0.135	0.05	15.08	16.50	1.387	0.192	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	97.59%	1.025	0.307	0.01	19.98	21.00	1.265	0.398	22.2
Back side	802.11a	52/5260	97.59%	1.025	0.573	0.05	19.98	21.00	1.265	0.743	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	120/5600	97.59%	1.025	0.160	-0.02	20.03	21.00	1.250	0.205	22.2
Back side	802.11a	120/5600	97.59%	1.025	0.246	-0.09	20.03	21.00	1.250	0.315	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	97.59%	1.025	0.193	-0.02	20.39	21.00	1.151	0.228	22.2
Back side	802.11a	157/5785	97.59%	1.025	0.525	0.09	20.39	21.00	1.151	0.619	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	36/5180	97.59%	1.025	0.482	0.02	19.83	21.00	1.309	0.647	22.2
Back side	802.11a	36/5180	97.59%	1.025	0.586	-0.03	19.83	21.00	1.309	0.786	22.2
Right side	802.11a	36/5180	97.59%	1.025	0.571	-0.03	19.83	21.00	1.309	0.766	22.2
Top side	802.11a	36/5180	97.59%	1.025	0.234	0.02	19.83	21.00	1.309	0.314	22.2



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Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	97.59%	1.025	0.352	0.13	20.39	21.00	1.151	0.415	22.2
Back side	802.11a	157/5785	97.59%	1.025	0.924	0.09	20.39	21.00	1.151	1.090	22.2
Back side-repeat	802.11a	157/5785	97.59%	1.025	0.917	0.06	20.39	21.00	1.151	1.081	22.2
Back side	802.11a	149/5745	97.59%	1.025	0.827	0.06	20.13	21.00	1.222	1.035	22.2
Right side	802.11a	157/5785	97.59%	1.025	0.845	0.14	20.39	21.00	1.151	0.996	22.2
Right side	802.11a	149/5745	97.59%	1.025	0.791	0.05	20.13	21.00	1.222	0.990	22.2
Top side	802.11a	157/5785	97.59%	1.025	0.439	0.09	20.39	21.00	1.151	0.518	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	97.59%	1.025	0.967	-0.02	19.98	21.00	1.265	1.253	22.2
Back side	802.11a	52/5260	97.59%	1.025	0.998	0.01	19.98	21.00	1.265	1.293	22.2
Right side	802.11a	52/5260	97.59%	1.025	1.270	-0.07	19.98	21.00	1.265	1.646	22.2
Top side	802.11a	52/5260	97.59%	1.025	0.672	0.02	19.98	21.00	1.265	0.871	22.2
Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	120/5600	97.59%	1.025	0.797	0.00	20.03	21.00	1.250	1.021	22.2
Back side	802.11a	120/5600	97.59%	1.025	1.550	0.01	20.03	21.00	1.250	1.986	22.2
Right side	802.11a	120/5600	97.59%	1.025	1.860	-0.03	20.03	21.00	1.250	2.383	22.2
Right side	802.11a	100/5500	97.59%	1.025	1.770	-0.19	19.84	21.00	1.306	2.369	22.2
Top side	802.11a	120/5600	97.59%	1.025	0.503	0.01	20.03	21.00	1.250	0.644	22.2
Additional Test data(simultaneous transmission with WWAN + WiFi 5G MIMO Receiver off)											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11a	60/5300	97.59%	1.025	0.469	0.08	13.56	14.50	1.242	0.597	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Back side	802.11a	157/5785	97.59%	1.025	0.620	0.02	18.25	19.50	1.334	0.847	22.2

Table 50: SAR of WIFI 5G for Head, Body and Product specific 10g SAR(Original report ZR/2020/2002906).



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Ant7(Chian1) Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test Data at the worst case											
Left cheek	802.11a	52/5260	96.67%	1.034	0.520	0.10	12.97	13.50	1.130	0.608	22.2
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11a	120/5600	96.67%	1.034	0.295	0.11	17.50	18.00	1.122	0.342	22.2
Hotspot Test data at the worst case(Separate 10mm)											
Back side	802.11a	157/5785	96.67%	1.034	0.373	0.05	17.38	18.00	1.153	0.445	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data at the worst case(Separate 0mm)											
Back side	802.11a	120/5600	96.67%	1.034	0.636	-0.12	17.50	18.00	1.122	0.738	22.2
MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Head Test Data at the worst case											
Left cheek	802.11a	52/5260	97.59%	1.025	0.677	0.01	15.89	16.50	1.151	0.798	22.2
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11a	52/5260	97.59%	1.025	0.433	0.01	19.98	21.00	1.265	0.561	22.2
Hotspot Test data at the worst case (Separate 10mm)											
Back side	802.11a	157/5785	97.59%	1.025	0.851	0.14	20.39	21.00	1.151	1.004	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data at the worst case (Separate 0mm)											
Right side	802.11a	120/5600	97.59%	1.025	1.830	0.11	20.03	21.00	1.250	2.345	22.2

Table 51: SAR of WIFI 5G for Head, Body and Product specific 10g SAR(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Each channel was tested at the lowest data rate.
- 4) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- 5) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 6) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.15 SAR Result of BT

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	DH5	39/2441	76.86%	1.301	0.123	0.19	9.61	10.00	1.094	0.175	22
Left tilted	DH5	39/2441	76.86%	1.301	0.033	0.01	9.61	10.00	1.094	0.047	22
Right cheek	DH5	39/2441	76.86%	1.301	0.053	0.06	9.61	10.00	1.094	0.076	22
Right tilted	DH5	39/2441	76.86%	1.301	0.014	0.07	9.61	10.00	1.094	0.020	22
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.86%	1.301	0.013	0.09	9.61	10.00	1.094	0.019	22
Back side	DH5	39/2441	76.86%	1.301	0.014	0.08	9.61	10.00	1.094	0.020	22
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.86%	1.301	0.029	0.01	9.61	10.00	1.094	0.041	22
Back side	DH5	39/2441	76.86%	1.301	0.036	0.02	9.61	10.00	1.094	0.051	22
Right side	DH5	39/2441	76.86%	1.301	0.053	0.04	9.61	10.00	1.094	0.075	22
Top side	DH5	39/2441	76.86%	1.301	0.006	-0.03	9.61	10.00	1.094	0.009	22

Table 52: SAR of BT for Head and Body(Original report ZR/2020/2002906).

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test Data at the worst case											
Left cheek	DH5	39/2441	76.86%	1.301	0.121	0.02	9.61	10.00	1.094	0.172	22
Body worn Test data at the worst case (Separate 15mm)											
Back side	DH5	39/2441	76.86%	1.301	0.013	0.06	9.61	10.00	1.094	0.019	22
Hotspot Test data at the worst case (Separate 10mm)											
Right side	DH5	39/2441	76.86%	1.301	0.052	0.03	9.61	10.00	1.094	0.074	22

Table 53: SAR of BT for Head and Body(Variant).

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

- **Simultaneous Transmission Possibilities**

NO	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	GSM Voice_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
2	GSM Voice_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
3	GSM Voice_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
4	GSM Voice_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
5	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
6	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
7	GSM Voice_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
8	GSM Voice_ANT4/1 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
9	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
10	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
11	GSM Voice_ANT5/10+ WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
12	GSM Voice_ANT4/1 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
13	GSM Voice_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
14	GSM Voice_ANT4/1 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
15	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
16	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
17	GSM Voice_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
18	GSM Voice_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
19	GSM Voice_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
20	GSM Voice_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
21	GSM Voice_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
22	GSM Voice_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
23	GPRS/EDGE_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
24	GPRS/EDGE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
25	GPRS/EDGE_ANT5/10+ BT CH0_ANT8	Y	Y	N	Y
26	GPRS/EDGE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
27	GPRS/EDGE_ANT5/10+ WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
28	GPRS/EDGE_ANT4/1 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
29	GPRS/EDGE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y



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30	GPRS/EDGE_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
31	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
32	GPRS/EDGE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
33	GPRS/EDGE_ANT5/10 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
34	GPRS/EDGE_ANT4/1 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
35	GPRS/EDGE_ANT5/10 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
36	GPRS/EDGE_ANT4/1 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
37	GPRS/EDGE_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
38	GPRS/EDGE_ANT4/1 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
39	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
40	GPRS/EDGE_ANT4/1+ WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
41	GPRS/EDGE_ANT5/10 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
42	GPRS/EDGE_ANT4/1 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
43	GPRS/EDGE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
44	GPRS/EDGE_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
45	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
46	GPRS/EDGE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
47	GPRS/EDGE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
48	GPRS/EDGE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
49	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
50	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
51	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
52	GPRS/EDGE_ANT4/1+ BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
53	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
54	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
55	GPRS/EDGE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
56	GPRS/EDGE_ANT4/1+ BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
57	GPRS/EDGE_ANT5/10+ BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
58	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
59	GPRS/EDGE_ANT5/10+ BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
60	GPRS/EDGE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
61	UMTS_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
62	UMTS_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
63	UMTS_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
64	UMTS_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
65	UMTS_ANT5/10 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y



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66	UMTS_ANT4/1 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
67	UMTS_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
68	UMTS_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
69	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
70	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
71	UMTS_ANT5/10 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
72	UMTS_ANT4/1 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
73	UMTS_ANT5/10 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
74	UMTS_ANT4/1 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
75	UMTS_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
76	UMTS_ANT4/1 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
77	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
78	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
79	UMTS_ANT5/10 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
80	UMTS_ANT4/1+ WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
81	UMTS_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
82	UMTS_ANT4/1 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
83	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
84	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
85	UMTS_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
86	UMTS_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
87	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
88	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
89	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
90	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
91	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
92	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
93	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
94	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
95	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
96	UMTS_ANT4/1+ BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
97	UMTS_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
98	UMTS_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
99	LTE_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y
100	LTE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
101	LTE_ANT5/10 + BT CH0_ANT8	Y	Y	N	Y



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102	LTE_ANT4/1 + BT CH0_ANT8	Y	Y	N	Y
103	LTE_ANT5/10 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
104	LTE_ANT4/1 + WiFi2.4G AP_SISO_ANT8	Y	Y	Y	Y
105	LTE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
106	LTE_ANT4/1+ WiFi2.4G AP_MIMO_ANT8&7	Y	Y	Y	Y
107	LTE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
108	LTE_ANT4/1+ WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y
109	LTE_ANT5/10 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
110	LTE_ANT4/1+ WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
111	LTE_ANT5/10 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
112	LTE_ANT4/1 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
113	LTE_ANT5/10 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
114	LTE_ANT4/1+ WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
115	LTE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
116	LTE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
117	LTE_ANT5/10+ WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
118	LTE_ANT4/1 + WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
119	LTE_ANT5/10 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
120	LTE_ANT4/1 + WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
121	LTE_ANT5/10+ WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
122	LTE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
123	LTE_ANT5/10 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
124	LTE_ANT4/1 + WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
125	LTE_ANT5/10+ BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
126	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
127	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
128	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
129	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
130	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
131	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
132	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
133	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
134	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
135	LTE_ANT5/10 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
136	LTE_ANT4/1 + BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
137	WiFi2.4G STA_MIMO_ANT8&7	Y	Y	N	Y



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138	WiFi5G STA_MIMO_ANT8&7	Y	Y	N	Y
139	WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
140	WiFi2.4G AP_SISO_ANT8 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
141	WiFi2.4G AP_MIMO_ANT8&7 + WiFi5G STA_MIMO_ANT8&7	N	N	N	N
142	WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_SISO_ANT8	N	N	N	N
143	WiFi2.4G STA_MIMO_ANT8&7 + WiFi5G AP_MIMO_ANT8&7	N	N	N	N
144	BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	Y	Y
145	BT CH0_ANT8 + WiFi5G STA_MIMO_ANT8&7	Y	Y	Y	Y
146	BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
147	BT CH0_ANT8 + WiFi5G AP_SISO_ANT8	Y	Y	Y	Y
148	BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y
149	BT CH0_ANT8 + WiFi5G AP_MIMO_ANT8&7	Y	Y	Y	Y



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Head Ant1:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1 Ant1	2 WiFi 2.4G Ant1(chian0)	3 WiFi 2.4G MIMO	4 WiFi 5G Ant7(chian1)	5 WiFi 5G MIMO	6 BT									
GSM850	Left Touch	0.157	0.333	0.426	0.506	0.597	0.175	0.490	0.583	0.663	0.754	0.332	0.681	0.772	0.838	0.929
	Left Tilt	0.065	0.076	0.222	0.429	0.594	0.047	0.141	0.287	0.494	0.659	0.112	0.476	0.641	0.541	0.706
	Right Touch	0.119	0.130	0.139	0.219	0.284	0.076	0.249	0.258	0.338	0.403	0.195	0.295	0.360	0.414	0.479
WCDMA Band V	Right Tilt	0.067	0.022	0.169	0.180	0.285	0.020	0.089	0.236	0.247	0.352	0.087	0.200	0.305	0.267	0.372
	Left Touch	0.168	0.333	0.426	0.506	0.597	0.175	0.501	0.594	0.674	0.765	0.343	0.681	0.772	0.849	0.940
	Left Tilt	0.069	0.076	0.222	0.429	0.594	0.047	0.145	0.291	0.498	0.663	0.116	0.476	0.641	0.545	0.710
LTE Band 5	Right Touch	0.125	0.130	0.139	0.219	0.284	0.076	0.255	0.264	0.344	0.409	0.201	0.295	0.360	0.420	0.485
	Right Tilt	0.069	0.022	0.169	0.180	0.285	0.020	0.091	0.238	0.249	0.354	0.089	0.200	0.305	0.269	0.374
	Left Touch	0.120	0.333	0.426	0.506	0.597	0.175	0.453	0.546	0.626	0.717	0.295	0.681	0.772	0.801	0.892
LTE Band 26	Left Tilt	0.051	0.076	0.222	0.429	0.594	0.047	0.127	0.273	0.480	0.645	0.098	0.476	0.641	0.527	0.692
	Right Touch	0.094	0.130	0.139	0.219	0.284	0.076	0.224	0.233	0.313	0.378	0.170	0.295	0.360	0.389	0.454
	Right Tilt	0.098	0.022	0.169	0.180	0.285	0.020	0.120	0.267	0.278	0.383	0.118	0.200	0.305	0.298	0.403
LTE Band 26	Left Touch	0.120	0.333	0.426	0.506	0.597	0.175	0.453	0.546	0.626	0.717	0.295	0.681	0.772	0.801	0.892
	Left Tilt	0.048	0.076	0.222	0.429	0.594	0.047	0.124	0.270	0.477	0.642	0.095	0.476	0.641	0.524	0.689
	Right Touch	0.078	0.130	0.139	0.219	0.284	0.076	0.208	0.217	0.297	0.362	0.154	0.295	0.360	0.373	0.438
	Right Tilt	0.049	0.022	0.169	0.180	0.285	0.020	0.071	0.218	0.229	0.334	0.069	0.200	0.305	0.249	0.354

Head Ant4:

Band	Exposure position	SARmax (W/kg)						Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+6)	Summed SAR (4+6)	Summed SAR (5+6)	Summed SAR (1+4+6)	Summed SAR (1+5+6)
		1 Ant4	2 WiFi 2.4G Ant1(chian0)	3 WiFi 2.4G MIMO	4 WiFi 5G Ant7(chian1)	5 WiFi 5G MIMO	6 BT									
GSM850	Left Touch	0.471	0.333	0.426	0.506	0.597	0.175	0.804	0.897	0.977	1.068	0.646	0.681	0.772	1.152	1.243
	Left Tilt	0.516	0.076	0.222	0.429	0.594	0.047	0.592	0.738	0.945	1.110	0.563	0.476	0.641	0.992	1.157
	Right Touch	0.606	0.130	0.139	0.219	0.284	0.076	0.736	0.745	0.825	0.890	0.682	0.295	0.360	0.901	0.966
WCDMA Band V	Right Tilt	0.755	0.022	0.169	0.180	0.285	0.020	0.777	0.924	0.935	1.040	0.775	0.200	0.305	0.955	1.060
	Left Touch	0.796	0.333	0.426	0.506	0.597	0.175	1.129	1.222	1.302	1.393	0.971	0.681	0.772	1.477	1.568
	Left Tilt	0.834	0.076	0.222	0.429	0.594	0.047	0.910	1.056	1.263	1.428	0.881	0.476	0.641	1.310	1.475
LTE Band 5	Right Touch	1.062	0.130	0.139	0.219	0.284	0.076	1.192	1.201	1.281	1.346	1.138	0.295	0.360	1.357	1.422
	Right Tilt	0.989	0.022	0.169	0.180	0.285	0.020	1.011	1.158	1.169	1.274	1.009	0.200	0.305	1.189	1.294
	Left Touch	0.759	0.333	0.426	0.506	0.597	0.175	1.092	1.185	1.265	1.356	0.934	0.681	0.772	1.440	1.531
LTE Band 5	Left Tilt	0.743	0.076	0.222	0.429	0.594	0.047	0.819	0.965	1.172	1.337	0.790	0.476	0.641	1.219	1.384
	Right Touch	0.947	0.130	0.139	0.219	0.284	0.076	1.077	1.086	1.166	1.231	1.023	0.295	0.360	1.242	1.307
	Right Tilt	0.829	0.022	0.169	0.180	0.285	0.020	0.851	0.998	1.009	1.114	0.849	0.200	0.305	1.029	1.134
LTE Band 26	Left Touch	0.642	0.333	0.426	0.506	0.597	0.175	0.975	1.068	1.148	1.239	0.817	0.681	0.772	1.323	1.414
	Left Tilt	0.695	0.076	0.222	0.429	0.594	0.047	0.771	0.917	1.124	1.289	0.742	0.476	0.641	1.171	1.336
	Right Touch	1.009	0.130	0.139	0.219	0.284	0.076	1.139	1.148	1.228	1.293	1.085	0.295	0.360	1.304	1.369
	Right Tilt	0.637	0.022	0.169	0.180	0.285	0.020	0.659	0.806	0.817	0.922	0.657	0.200	0.305	0.837	0.942



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