



Ant 6+7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.81	22.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	93.50
		116	5580	20.67	22.50		17.00		14.50		21.00	
		124	5620	20.81	22.50		17.00		14.50		21.00	
		132	5660	20.67	22.50		17.00		14.50		21.00	
		140	5700	20.20	21.50		17.00		14.50		21.00	
		144	5720	20.98	22.50		17.00		14.50		21.00	
	802.11n-HT20 MCS0	100	5500	20.66	22.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	93.10
		116	5580	20.62	22.50		17.00		14.50		21.00	
		124	5620	20.66	22.50		17.00		14.50		21.00	
		132	5660	20.62	22.50		17.00		14.50		21.00	
		140	5700	19.50	21.00		17.00		14.50		21.00	
		144	5720	20.68	22.50		17.00		14.50		21.00	
	802.11n-HT40 MCS0	102	5510	20.66	22.50	16.61	17.00	Not Required	14.50	Not Required	21.00	87.00
		110	5550	23.36	24.50	16.67	17.00		14.50		21.00	
		126	5630	23.36	24.50	16.42	17.00		14.50		21.00	
		134	5670	21.84	23.50	16.50	17.00		14.50		21.00	
		142	5710	23.03	24.50	16.64	17.00		14.50		21.00	
	802.11ac-VHT20 MCS0	100	5500	20.66	22.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	93.20
		116	5580	20.62	22.50		17.00		14.50		21.00	
		124	5620	20.66	22.50		17.00		14.50		21.00	
		132	5660	20.62	22.50		17.00		14.50		21.00	
		140	5700	19.50	21.00		17.00		14.50		21.00	
		144	5720	20.68	22.50		17.00		14.50		21.00	
	802.11ac-VHT40 MCS0	102	5510	20.66	22.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	87.10
		110	5550	23.36	24.50		17.00		14.50		21.00	
		126	5630	23.36	24.50		17.00		14.50		21.00	
		134	5670	21.84	23.50		17.00		14.50		21.00	
		142	5710	23.03	24.50		17.00		14.50		21.00	
	802.11ac-VHT80 MCS0	106	5530	19.91	21.50	15.80	17.00	12.94	14.00	19.87	21.00	93.20
		122	5610	22.87	24.50	16.32	17.00	13.10	14.50	19.91	21.00	
		138	5690	22.84	24.50	16.21	17.00	13.24	14.50	19.92	21.00	
	802.11ax-HE20 MCS0	100	5500	20.76	22.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	97.50
		116	5580	20.72	22.50		17.00		14.50		21.00	
		124	5620	20.76	22.50		17.00		14.50		21.00	
		132	5660	20.72	22.50		17.00		14.50		21.00	
		140	5700	19.60	21.50		17.00		14.50		21.00	
		144	5720	20.78	22.50		17.00		14.50		21.00	
	802.11ax-HE40 MCS0	102	5510	20.76	22.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	95.30
		110	5550	23.46	24.50		17.00		14.50		21.00	
		126	5630	23.46	24.50		17.00		14.50		21.00	
		134	5670	21.94	23.50		17.00		14.50		21.00	
		142	5710	23.13	24.50		17.00		14.50		21.00	
	802.11ax-HE80 MCS0	106	5530	20.01	21.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	90.70
		122	5610	22.97	24.50		17.00		14.50		21.00	
		138	5690	22.94	24.50		17.00		14.50		21.00	

Ant 6+7				Full Power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	22.81	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.50	93.50
		157	5785	22.98	24.00		17.50		15.00		23.50	
		165	5825	22.87	24.00		17.50		15.00		23.50	
	802.11n-HT20 MCS0	149	5745	22.75	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.50	93.10
		157	5785	22.80	24.00		17.50		15.00		23.50	
		165	5825	22.71	24.00		17.50		15.00		23.50	
	802.11n-HT40 MCS0	151	5755	22.97	24.00	17.12	17.50	Not Required	15.00	Not Required	23.50	87.00
		159	5795	23.03	24.00	17.16	17.50		15.00		23.50	
	802.11ac-VHT20 MCS0	149	5745	22.75	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.50	93.10
		157	5785	22.80	24.00		17.50		15.00		23.50	
		165	5825	22.71	24.00		17.50		15.00		23.50	
	802.11ac-VHT40 MCS0	151	5755	22.97	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.50	87.10
		159	5795	23.03	24.00		17.50		15.00		23.50	
	802.11ac-VHT80 MCS0	155	5775	22.78	24.00	16.96	17.50	14.12	15.00	Not Required	23.00	93.50
	802.11ax-HE20 MCS0	149	5745	22.85	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.50	97.50
		157	5785	22.90	24.00		17.50		15.00		23.50	
		165	5825	22.77	24.00		17.50		15.00		23.50	
	802.11ax-HE40 MCS0	151	5755	23.07	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.50	95.20
		159	5795	23.13	24.00		17.50		15.00		23.50	
	802.11ax-HE80 MCS0	155	5775	22.88	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.00	90.70

<Beamforming mode>

<2.4GHz WLAN Ant6>

Ant 6				Full power Sensor off Standalone Sensor off Simultaneous		For Sensor on Standalone		For Sensor on Simultaneous		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11ax-HE20 MCS0	1	2412	18.00	19.50	17.30	18.50	14.30	16.00	100.00
		6	2437	17.90	19.50	17.50	18.50	14.50	16.00	
		11	2462	17.50	19.00	17.50	18.50	14.40	16.00	

<2.4GHz WLAN Ant7>

Ant 7				Full power Sensor off Standalone Sensor off Simultaneous For Sensor on Standalone		For Sensor on Simultaneous		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11ax-HE20 MCS0	1	2412	18.90	20.50	16.60	17.50	100.00
		6	2437	18.90	20.50	15.50	17.50	
		11	2462	18.90	20.50	15.70	17.50	

<2.4GHz WLAN Ant6+7>

Ant 6+7				Full power Sensor off Standalone Sensor off Simultaneous		For Sensor on Standalone		For Sensor on Simultaneous		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11ax-HE20 MCS0	1	2412	21.48	23.00	21.18	22.00	18.61	19.50	100.00
		6	2437	21.44	23.00	21.27	22.00	18.04	19.50	
		11	2462	21.27	22.50	21.27	22.00	18.11	19.50	

<5GHz WLAN Ant6>

Ant 6				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11n-HT20 MCS0	36	5180	16.30	17.50	Not Required	13.50	Not Required	11.00	Not Required	17.5	100.00
		40	5200	16.30	17.50		13.50		11.00		17.5	
		44	5220	16.80	18.50		13.50		11.00		17.5	
		48	5240	16.80	18.50		13.50		11.00		17.5	
	802.11n-HT40 MCS0	38	5190	12.90	14.50	12.60	13.50	Not Required	11.00	12.90	14.5	100.00
		46	5230	19.10	20.50	12.50	13.50		11.00	15.60	17.5	
	802.11ax-HE20 MCS0	36	5180	16.40	18.00	Not Required	13.50	Not Required	11.00	Not Required	17.5	100.00
		40	5200	16.40	18.00		13.50		11.00		17.5	
		44	5220	16.90	18.50		13.50		11.00		17.5	
		48	5240	16.90	18.50		13.50		11.00		17.5	
	802.11ax-HE40 MCS0	38	5190	13.00	14.50	Not Required	13.50	Not Required	11.00	Not Required	14.5	100.00
		46	5230	19.20	20.50		13.50		11.00		17.5	
	802.11ax-HE80 MCS0	42	5210	12.00	13.50		13.50	9.10	11.00		13.5	100.00

Ant 6				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11n-HT20 MCS0	52	5260	17.30	18.50	Not Required	13.50	Not Required	11.00	Not Required	17.5	100.00
		56	5280	17.30	18.50		13.50		11.00		17.5	
		60	5300	17.20	18.50		13.50		11.00		17.5	
		64	5320	16.60	18.00		13.50		11.00		17.5	
	802.11n-HT40 MCS0	54	5270	19.50	21.00	12.80	13.50	Not Required	11.00	15.80	17.5	100.00
		62	5310	14.90	16.50	12.70	13.50		11.00	14.90	16.5	
	802.11ax-HE20 MCS0	52	5260	17.40	19.00	Not Required	13.50	Not Required	11.00	Not Required	17.5	100.00
		56	5280	17.40	19.00		13.50		11.00		17.5	
		60	5300	17.30	19.00		13.50		11.00		17.5	
		64	5320	16.70	18.00		13.50		11.00		17.5	
	802.11ax-HE40 MCS0	54	5270	19.60	21.00	Not Required	13.50	Not Required	11.00	Not Required	17.5	100.00
		62	5310	15.00	16.50		13.50		11.00		16.5	
	802.11ax-HE80 MCS0	58	5290	13.30	14.50		13.50	9.80	11.00		14.5	100.00

Ant 6				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11n-HT20 MCS0	100	5500	17.30	18.50		15.00		12.50		18.00	100.00
		116	5580	17.20	18.50		15.00		12.50		18.00	
		124	5620	17.20	18.50		15.00		12.50		18.00	
		132	5660	17.30	18.50		15.00		12.50		18.00	
		140	5700	15.60	17.00		15.00		12.50		17.00	
		144	5720	17.10	18.50		15.00		12.50		18.00	
	802.11n-HT40 MCS0	102	5510	15.20	16.50		15.00		12.50		16.50	100.00
		110	5550	19.90	21.50		15.00		12.50		18.00	
		126	5630	19.90	21.50		15.00		12.50		18.00	
		134	5670	17.00	18.50		15.00		12.50		18.00	
		142	5710	19.50	21.00		15.00		12.50		18.00	
	802.11ax-HE20 MCS0	100	5500	17.40	19.00	Not Required	15.00	Not Required	12.50	Not Required	18.00	100.00
		116	5580	17.30	19.00		15.00		12.50		18.00	
		124	5620	17.40	19.00		15.00		12.50		18.00	
		132	5660	17.30	19.00		15.00		12.50		18.00	
		140	5700	15.70	17.00		15.00		12.50		17.00	
		144	5720	17.20	19.00		15.00		12.50		18.00	
	802.11ax-HE40 MCS0	102	5510	15.30	17.00		15.00		12.50		17.00	100.00
		110	5550	20.00	21.50		15.00		12.50		18.00	
		126	5630	20.00	21.50		15.00		12.50		18.00	
		134	5670	17.10	18.50		15.00		12.50		18.00	
		142	5710	19.60	21.00		15.00		12.50		18.00	
	802.11ax-HE80 MCS0	106	5530	15.50	17.00	13.40	15.00	10.50	12.50	15.50	17.00	100.00
		122	5610	19.00	20.50	13.90	15.00	10.50	12.50	16.40	18.00	
		138	5690	19.50	21.00	13.60	15.00	10.60	12.50	16.10	18.00	



Ant 6				Full Power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11n-HT20 MCS0	149	5745	19.40	20.00	Not Required	15.50	Not Required	13.50	Not Required	18.50	100.00
		157	5785	19.40	20.00		15.50		13.50		18.50	
		165	5825	18.90	20.00		15.50		13.50		18.50	
	802.11n-HT40 MCS0	151	5755	19.40	20.00		15.50		13.50		18.50	100.00
		159	5795	19.00	20.00		15.50		13.50		18.50	
	802.11ax-HE20 MCS0	149	5745	19.50	20.00		15.50		13.50		18.50	100.00
		157	5785	19.50	20.00		15.50		13.50		18.50	
		165	5825	19.00	20.00		15.50		13.50		18.50	
	802.11ax-HE40 MCS0	151	5755	19.50	20.00		15.50		13.50		18.50	100.00
		159	5795	19.10	20.00		15.50		13.50		18.50	
	802.11ax-HE80 MCS0	155	5775	19.40	20.00	14.90	15.50	11.90	13.50	17.10	18.50	100.00



<5GHz WLAN Ant7>

Ant 7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	36	5180	17.40	19.00	Not Required	17.00	Not Required	15.00	Not Required	18.50	100.00
		40	5200	17.40	19.00		17.00		15.00		18.50	
		44	5220	17.90	19.50		17.00		15.00		18.50	
		48	5240	17.90	19.50		17.00		15.00		18.50	
	802.11n-HT40 MCS0	38	5190	14.30	16.00	15.30	16.00	13.30	15.00	14.30	16.00	100.00
		46	5230	20.20	21.50	15.70	17.00	13.40	15.00	17.20	18.50	
	802.11ax-HE20 MCS0	36	5180	17.50	19.00	Not Required	17.00	Not Required	15.00	Not Required	18.50	100.00
		40	5200	21.30	22.00		17.00		15.00		18.50	
		44	5220	18.00	19.50		17.00		15.00		18.50	
		48	5240	18.00	19.50		17.00		15.00		18.50	
	802.11ax-HE40 MCS0	38	5190	14.40	16.00	Not Required	16.00	Not Required	15.00	Not Required	16.00	100.00
		46	5230	20.30	21.50		17.00		15.00		18.50	
	802.11ax-HE80 MCS0	42	5210	13.00	14.50		14.50		14.50		14.50	100.00

Ant 7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	52	5260	18.10	19.50		17.00		15.00	Not Required	18.50	100.00
		56	5280	18.10	19.50		17.00		15.00		18.50	
		60	5300	17.90	19.50		17.00		15.00		18.50	
		64	5320	17.60	19.00		17.00		15.00		18.50	
	802.11n-HT40 MCS0	54	5270	20.20	21.50	Not Required	17.00	Not Required	15.00	17.20	18.50	100.00
		62	5310	15.80	17.50		17.00		15.00	15.80	17.50	
	802.11ax-HE20 MCS0	52	5260	18.20	19.50	Not Required	17.00	Not Required	15.00	Not Required	18.50	100.00
		56	5280	18.20	19.50		17.00		15.00		18.50	
		60	5300	18.00	19.50		17.00		15.00		18.50	
		64	5320	17.70	19.00		17.00		15.00		18.50	
	802.11ax-HE40 MCS0	54	5270	20.30	21.50		17.00		15.00		18.50	100.00
		62	5310	15.90	17.50		17.00		15.00		17.50	
802.11ax-HE80 MCS0	58	5290	16.40	18.00	15.70	17.00	13.40	15.00		18.00	100.00	

Ant 7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	100	5500	17.70	19.00	Not Required	13.50	Not Required	11.00	Not Required	18.50	100.00
		116	5580	17.90	19.50		13.50		11.00		18.50	
		124	5620	17.90	19.50		13.50		11.00		18.50	
		132	5660	17.70	19.00		13.50		11.00		18.50	
		140	5700	17.00	18.50		13.50		11.00		18.50	
		144	5720	18.20	19.50		13.50		11.00		18.50	
	802.11n-HT40 MCS0	102	5510	15.70	17.00		13.50		11.00		17.00	100.00
		110	5550	20.10	21.00		13.50		11.00		18.50	
		126	5630	20.10	21.00		13.50		11.00		18.50	
		134	5670	17.90	19.50		13.50		11.00		18.50	
		142	5710	20.40	21.00		13.50		11.00		18.50	
	802.11ax-HE20 MCS0	100	5500	17.80	19.50		13.50		11.00		18.50	100.00
		116	5580	18.00	19.50		13.50		11.00		18.50	
		124	5620	17.80	19.50		13.50		11.00		18.50	
		132	5660	18.00	19.50		13.50		11.00		18.50	
		140	5700	17.10	18.50		13.50		11.00		18.50	
		144	5720	18.30	20.00		13.50		11.00		18.50	
	802.11ax-HE40 MCS0	102	5510	15.80	17.50		13.50		11.00		17.50	100.00
		110	5550	20.20	21.00		13.50		11.00		18.50	
		126	5630	20.20	21.00		13.50		11.00		18.50	
		134	5670	18.00	19.50		13.50		11.00		18.50	
		142	5710	20.50	21.00		13.50		11.00		18.50	
	802.11ax-HE80 MCS0	106	5530	15.80	17.50		11.70		9.20		17.50	100.00
122		5610	19.40	21.00	12.40		9.50		18.50			
138		5690	20.50	21.00	12.10	9.60	17.00					

Ant 7				Full Power Sensor off Standalone Sensor off Simultaneous		For Sensor on Standalone		For Sensor on Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11n-HT20 MCS0	149	5745	20.10	21.50	Not Required	13.50	Not Required	11.00	100.00
		157	5785	20.10	21.50		13.50		11.00	
		165	5825	20.10	21.50		13.50		11.00	
	802.11n-HT40 MCS0	151	5755	20.40	21.50		13.50		11.00	100.00
		159	5795	20.30	21.50		13.50		11.00	
	802.11ax-HE20 MCS0	149	5745	20.20	21.50		13.50		11.00	100.00
		157	5785	20.20	21.50		13.50		11.00	
		165	5825	20.20	21.50		13.50		11.00	
	802.11ax-HE40 MCS0	151	5755	20.50	21.50		13.50		11.00	100.00
		159	5795	20.40	21.50		13.50		11.00	
	802.11ax-HE80 MCS0	155	5775	20.40	21.50	12.50	13.50	9.50	11.00	100.00

<5GHz WLAN Ant6+7>

Ant 6+7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11n-HT20 MCS0	36	5180	19.90	21.00	Not Required	18.50	Not Required	16.00	Not Required	21	100.00
		40	5200	19.90	21.00		18.50		16.00		21	
		44	5220	20.40	22.00		18.50		16.00		21	
		48	5240	20.40	22.00		18.50		16.00		21	
	802.11n-HT40 MCS0	38	5190	16.67	18.00	17.17	18.00	Not Required	16.00	16.67	18	100.00
		46	5230	22.70	24.00	17.40	18.50		16.00	19.48	21	
	802.11ax-HE20 MCS0	36	5180	20.00	21.50	Not Required	18.50	Not Required	16.00	Not Required	21	100.00
		40	5200	20.00	21.50		18.50		16.00		21	
		44	5220	20.50	22.00		18.50		16.00		21	
		48	5240	20.50	22.00		18.50		16.00		21	
	802.11ax-HE40 MCS0	38	5190	16.77	18.00	Not Required	18.00	Not Required	16.00	Not Required	18	100.00
		46	5230	22.80	24.00		18.50		16.00		21	
	802.11ax-HE80 MCS0	42	5210	15.54	17.00	Not Required	17.00	Not Required	16.00	Not Required	17	100.00

Ant 6+7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11n-HT20 MCS0	52	5260	20.73	22.00	Not Required	18.50	Not Required	16.00	Not Required	21.0	100.00
		56	5280	20.73	22.00		18.50		16.00		21.0	
		60	5300	20.57	22.00		18.50		16.00		21.0	
		64	5320	20.14	21.50		18.50		16.00		21.0	
	802.11n-HT40 MCS0	54	5270	22.87	24.00	Not Required	18.50	Not Required	16.00	19.17	21.0	100.00
		62	5310	18.38	20.00		18.50		16.00	18.38	20.0	
	802.11ax-HE20 MCS0	52	5260	20.83	22.00	Not Required	18.50	Not Required	16.00	Not Required	21.0	100.00
		56	5280	20.83	22.00		18.50		16.00		21.0	
		60	5300	20.67	22.00		18.50		16.00		21.0	
		64	5320	20.24	21.50		18.50		16.00		21.0	
	802.11ax-HE40 MCS0	54	5270	22.97	24.00	Not Required	18.50	Not Required	16.00	Not Required	21.0	100.00
		62	5310	18.48	20.00		18.50		16.00		20.0	
	802.11ax-HE80 MCS0	58	5290	18.13	19.50	Not Required	18.50	14.97	16.00	Not Required	19.5	100.00

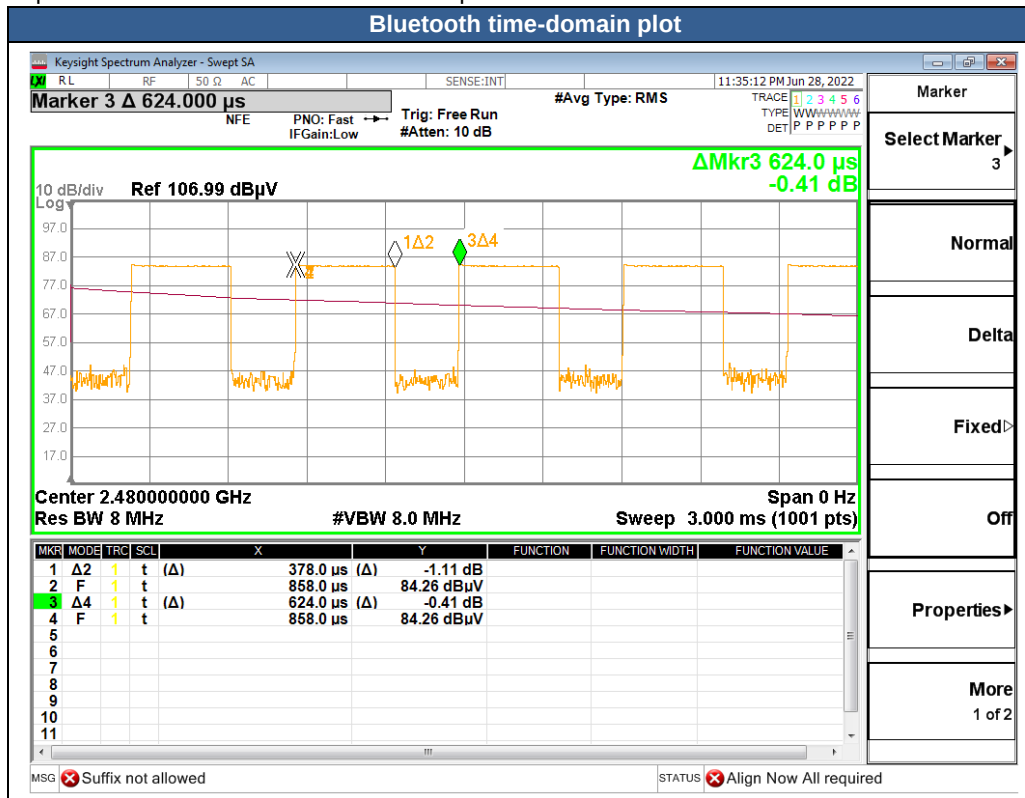
Ant 6+7				Full power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	100	5500	20.51	21.50	Not Required	17.00	Not Required	14.50	Not Required	21.00	100.00
		116	5580	20.57	22.00		17.00		14.50		21.00	
		124	5620	20.57	22.00		17.00		14.50		21.00	
		132	5660	20.51	21.50		17.00		14.50		21.00	
		140	5700	19.37	20.50		17.00		14.50		20.50	
		144	5720	20.70	22.00		17.00		14.50		21.00	
	802.11n-HT40 MCS0	102	5510	18.47	19.50		17.00		14.50		19.50	100.00
		110	5550	23.01	24.00		17.00		14.50		21.00	
		126	5630	23.01	24.00		17.00		14.50		21.00	
		134	5670	20.48	22.00		17.00		14.50		21.00	
		142	5710	22.98	24.00		17.00		14.50		21.00	
	802.11ax-HE20 MCS0	100	5500	20.61	22.00		17.00		14.50		21.00	100.00
		116	5580	20.67	22.00		17.00		14.50		21.00	
		124	5620	20.61	22.00		17.00		14.50		21.00	
		132	5660	20.67	22.00		17.00		14.50		21.00	
		140	5700	19.47	20.50		17.00		14.50		20.50	
		144	5720	20.80	22.50		17.00		14.50		21.00	
	802.11ax-HE40 MCS0	102	5510	18.57	20.00		17.00		14.50		20.00	100.00
		110	5550	23.11	24.00		17.00		14.50		21.00	
		126	5630	23.11	24.00		17.00		14.50		21.00	
		134	5670	20.58	22.00	17.00	14.50	21.00				
		142	5710	23.08	24.00	17.00	14.50	21.00				
802.11ax-HE80 MCS0	106	5530	18.66	20.00	15.64	17.00	12.91	14.50	18.66	20.00	100.00	
	122	5610	22.21	23.50	16.22	17.00	13.04	14.50	19.67	21.00		
	138	5690	23.04	23.50	15.92	17.00	13.14	14.50	19.58	21.00		

Ant 6+7				Full Power Sensor off Standalone		For Sensor on Standalone		For Sensor on Simultaneous		For Sensor off Simultaneous		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	149	5745	22.77	24.00	Not Required	17.50	Not Required	15.00	Not Required	23.00	100.00
		157	5785	22.77	24.00		17.50		15.00		23.00	
		165	5825	22.55	24.00		17.50		15.00		23.00	
	802.11n-HT40 MCS0	151	5755	22.94	24.00		17.50		15.00		23.00	100.00
		159	5795	22.71	24.00		17.50		15.00		23.00	
	802.11ax-HE20 MCS0	149	5745	22.87	24.00		17.50		15.00		23.00	100.00
		157	5785	22.87	24.00		17.50		15.00		23.00	
		165	5825	22.65	24.00		17.50		15.00		23.00	
	802.11ax-HE40 MCS0	151	5755	23.04	24.00		17.50		15.00		23.00	100.00
		159	5795	22.81	24.00		17.50		15.00		23.00	
802.11ax-HE80 MCS0	155	5775	22.94	24.00	16.87	17.50	13.87	15.00	22.00	23.00	100.00	

<2.4GHz Bluetooth>

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- The Bluetooth duty cycle is 60.58 % as following figure, according to Oct. 2016 TCB workshop for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.



<BR/EDR>

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	1.66	1.17	1.18	3.00
	CH 39	2441	2.11	2.12	2.13	3.50
	CH 78	2480	3.04	1.11	1.13	3.50

<BLE 1M >

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	4.90
	CH 19	2440	6.00
	CH 39	2480	5.40
Tune-up Limit			7.00

<BLE 2M >

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.00
	CH 19	2440	6.10
	CH 39	2480	5.50
Tune-up Limit			7.00

15. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

<SAR test exclusion table>

General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
- Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

<For Ant.0>

Exposure Position	Wireless Interface	GSM850 Ant0	GSM1900 Ant0	WCDMA II Ant0	WCDMA IV Ant0	WCDMA V Ant0	LTE Band 2 Ant0	LTE Band 5 Ant0	LTE Band 7 Ant0	LTE Band 17 Ant0	LTE Band 66 Ant0	LTE Band 38 Ant0	FR1 n2 Ant0	FR1 n5 Ant0	FR1 n7 Ant0	FR1 n66 Ant0	FR1 n38 Ant0
	Calculated Frequency (MHz)	848.8	1909.8	1907.6	1752.6	846.6	1900	844	2560	711	1770	2610	1900	839	2545	1765	2599.98
	Maximum power (dBm)	31.5	28.5	24.0	24.0	24.0	25.0	25.0	24.0	25.0	25.0	24.0	25.0	25.0	24.0	24.0	24.0
	Maximum rated power(mW)	1412.54	707.95	251.19	251.19	251.19	316.23	316.23	251.19	316.23	316.23	251.19	316.23	316.23	251.19	251.19	251.19
Bottom Face	Separation distance(mm)	5.0															
	exclusion threshold	260.3	195.7	69.4	66.5	46.2	87.2	58.1	80.4	53.3	84.1	81.2	87.2	57.9	80.1	66.7	81.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	7.81															
	exclusion threshold	166.6	125.3	44.4	42.6	29.6	55.8	37.2	51.5	34.1	53.9	52.0	55.8	37.1	51.3	42.7	51.9
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	123.15															
	exclusion threshold	577.0	1040.0	1039.0	968.0	576.0	1035.0	575.0	825.0	909.0	844.0	824.0	840.0	895.0	826.0	844.0	825.0
	Testing required?	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	142.75															
	exclusion threshold	688.0	1289.0	1288.0	1197.0	687.0	1284.0	685.0	1021.0	1105.0	1040.0	1020.0	1036.0	1091.0	1022.0	1040.0	1021.0
	Testing required?	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	5.0															
	exclusion threshold	260.3	195.7	69.4	66.5	46.2	87.2	58.1	80.4	53.3	84.1	81.2	87.2	57.9	80.1	66.7	81.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<For Ant.1>

Exposure Position	Wireless Interface	FR1 n41 Ant1	FR1 n77 Part27Q Ant1	FR1 n77 Part27Q Ant1
	Calculated Frequency (MHz)	2640	3930	3500.01
	Maximum power (dBm)	21.0	21.0	21.0
	Maximum rated power(mW)	125.89	125.89	125.89
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	106.40		
	exclusion threshold	1085.0	1553.0	1396.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 3	Separation distance(mm)	55.40		
	exclusion threshold	187.0	217.0	206.0
	Testing required?	No	No	No
Edge 4	Separation distance(mm)	121.40		
	exclusion threshold	1349.0	1946.0	1746.0
	Testing required?	No	No	No

<For Ant.2>

Exposure Position	Wireless Interface	LTE Band 2 Ant2	LTE Band 7 Ant2	LTE Band 41 Ant2	FR1 n7 Ant2	FR1 n41 HPUE Ant2
	Calculated Frequency (MHz)	1900	2560	2680	2545	2640
	Maximum power (dBm)	24.0	24.0	25.0	24.0	27.0
	Maximum rated power(mW)	251.19	251.19	316.23	251.19	501.19
Bottom Face	Separation distance(mm)	5.0				
	exclusion threshold	69.3	80.4	103.5	80.1	102.8
	Testing required?	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	126.93				
	exclusion threshold	1083.0	1407.0	1466.0	1399.0	1446.0
	Testing required?	No	No	No	No	No
Edge 2	Separation distance(mm)	126.15				
	exclusion threshold	1073.0	1393.0	1452.0	1386.0	1433.0
	Testing required?	No	No	No	No	No
Edge 3	Separation distance(mm)	41.35				
	exclusion threshold	8.4	9.7	12.5	9.7	12.4
	Testing required?	Yes	Yes	Yes	Yes	Yes
Edge 4	Separation distance(mm)	5.0				
	exclusion threshold	69.3	80.4	103.5	80.1	102.8
	Testing required?	Yes	Yes	Yes	Yes	Yes

<For Ant.3>

Exposure Position	Wireless Interface	LTE Band42 Ant3	FR1 n77 Part27O Ant3	FR1 n77 Part27Q Ant3
	Calculated Frequency (MHz)	3540	3930	3500.01
	Maximum power (dBm)	24.0	27.0	27.0
	Maximum rated power(mW)	251.19	501.19	501.19
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	94.5	198.7	187.5
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	79.42		
	exclusion threshold	774.0	846.0	767.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	125.35		
	exclusion threshold	1858.0	2050.0	1838.0
	Testing required?	No	No	No
Edge 3	Separation distance(mm)	115.45		
	exclusion threshold	1624.0	1790.0	1607.0
	Testing required?	No	No	No
Edge 4	Separation distance(mm)	5.0		
	exclusion threshold	94.5	198.7	187.5
	Testing required?	Yes	Yes	Yes

<For Ant.4>

Exposure Position	Wireless Interface	FR1 n41 Ant4	FR1 n77 Part27O Ant4	FR1 n77 Part27Q Ant4
	Calculated Frequency (MHz)	2640	3930	3500.01
	Maximum power (dBm)	21.0	21.0	21.0
	Maximum rated power(mW)	125.89	125.89	125.89
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	203.31		
	exclusion threshold	2791.0	4092.0	3657.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	34.44		
	exclusion threshold	5.9	7.3	6.8
	Testing required?	Yes	Yes	Yes
Edge 3	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	77.74		
	exclusion threshold	581.0	802.0	727.0
	Testing required?	No	No	No

<For Ant.5>

Exposure Position	Wireless Interface	FR1 n41 Ant5	FR1 n77 Part27O Ant5	FR1 n77 Part27Q Ant5
	Calculated Frequency (MHz)	2640	3930	3500.01
	Maximum power (dBm)	21.0	21.0	21.0
	Maximum rated power(mW)	125.89	125.89	125.89
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	203.61		
	exclusion threshold	2796.0	4100.0	3664.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	59.84		
	exclusion threshold	266.0	333.0	310.0
	Testing required?	No	No	No
Edge 3	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	44.23		
	exclusion threshold	4.6	5.6	5.3
	Testing required?	Yes	Yes	Yes

<For Ant.6&7>

Exposure Position	Wireless Interface	BT ANT 6	2.4GHz WLAN ANT 6	2.4GHz WLAN ANT 7	5GHz WLAN ANT 6	5GHz WLAN ANT 7
	Calculated Frequency (MHz)	2480	2462	2462	5825	5825
	Maximum power (dBm)	7.0	21.5	22.5	21.5	22.0
	Maximum rated power(mW)	5.01	141.25	177.83	141.25	158.49
Bottom Face	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0
	exclusion threshold	1.6	44.3	55.8	68.2	76.5
	Testing required?	No	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	177.65	177.65	5.0	177.65	5.0
	exclusion threshold	1372.0	1372.0	55.8	1339.0	76.5
	Testing required?	No	No	Yes	No	Yes
Edge 2	Separation distance(mm)	126.15	126.15	86.89	126.15	86.89
	exclusion threshold	857.0	857.0	464.0	824.0	431.0
	Testing required?	No	No	No	No	No
Edge 3	Separation distance(mm)	9.61	9.61	199.40	9.61	199.40
	exclusion threshold	0.8	23.1	1590.0	35.5	1556.0
	Testing required?	No	Yes	No	Yes	No
Edge 4	Separation distance(mm)	5.0	5.0	16.39	5.0	16.39
	exclusion threshold	1.6	44.3	17.0	68.2	23.3
	Testing required?	No	Yes	Yes	Yes	Yes

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result.
The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. For Ant0/3, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 1 and edge 4 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
5. For Ant2/6, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 4 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
6. For Ant7, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 1 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
7. For WWAN Ant 0 distance SAR test at Bottom Face 16mm, Edge 4 12mm, Edge 1 9mm is only for simultaneous transmission analysis with WLAN.
8. For WWAN Ant 2 distance SAR test at Edge 4 12mm is only for simultaneous transmission analysis with WLAN.
9. For WWAN Ant 3 distance SAR test at Bottom Face 16mm, Edge 4 12mm is only for simultaneous transmission analysis with WLAN.
10. For WLAN 2.4GHz/5GHz Ant 6 distance SAR test at Bottom Face 17mm, Edge 4 18mm/19mm/20mm is only for simultaneous transmission analysis with WWAN.
11. For WLAN 2.4GHz/5GHz Ant 7 distance SAR test at Bottom Face 17mm, Edge 4 12mm/18mm/19mm/20mm, Edge 1 2mm is only for simultaneous transmission analysis with WWAN.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode, SAR measurement is not required for the secondary mode

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA. is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA. to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA.) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 4 SAR test was covered by Band 66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n5 /n7/n41/n66/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
8. The single antenna RF power in MIMO mode is less than the single antenna RF power in SISO mode, SAR testing was performed on SISO mode, for MIMO SAR based on standalone SAR to be summed together as MIMO SAR.
9. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. TX Beamforming mode is only supported in 2.4GHz WLAN 802.11ax and 5GHz WLAN 802.11n/ax.
10. Due to the single antenna RF power in WLAN SISO & MIMO (CDD) mode is larger than or very close to the single antenna RF power in Beamforming mode, so WLAN SISO & MIMO (CDD) mode SAR can represent beamforming mode SAR.

DSI status description:

The device has the following DSI state which used at different exposure condition.

This WWAN bands enabled with Qualcomm Smart Transmit feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

Exposure Condition	DSI	Tx Antenna	Trigger conditions
Body Mode SAR	DSI 1	Ant 0/2/3	Sensor On + Standalone
	DSI 3	Ant 0/2/3	Sensor On + Simultaneous
	DSI 0	Ant 0/2/3	Sensor Off + Standalone
	DSI 2	Ant 0/2/3	Sensor Off + Simultaneous
	DSI 0/1	Ant 1/4/5	Standalone
	DSI 2/3	Ant 1/4/5	Simultaneous



16.1 Body SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750 MHz																		
01	LTE Band 17	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	23790	710	20.54	21.80	1.337	0.01	0.929	1.242
	LTE Band 17	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 0	DSI 1	23790	710	20.48	21.80	1.355	0.03	0.859	1.164
	LTE Band 17	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	23790	710	20.46	21.80	1.361	0.01	0.840	1.144
	LTE Band 17	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	23790	710	20.54	21.80	1.337	0.05	0.602	0.805
	LTE Band 17	10M	QPSK	25	0	-	Edge 4	0mm	Ant 0	DSI 1	23790	710	20.48	21.80	1.355	0.03	0.592	0.802
	LTE Band 17	10M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	23790	710	20.46	21.80	1.361	0.06	0.586	0.798
	LTE Band 17	10M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	23790	710	20.54	21.80	1.337	0.05	0.231	0.309
	LTE Band 17	10M	QPSK	25	0	-	Edge 1	0mm	Ant 0	DSI 1	23790	710	20.48	21.80	1.355	0.06	0.203	0.275
	LTE Band 17	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	23790	710	17.94	19.20	1.337	0.01	0.466	0.623
	LTE Band 17	10M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	23790	710	23.70	25.00	1.349	0.03	0.382	0.515
	LTE Band 17	10M	QPSK	1	0	-	Edge 4	19mm	Ant 0	DSI 0	23790	710	23.70	25.00	1.349	0.02	0.161	0.217
	LTE Band 17	10M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	23790	710	23.70	25.00	1.349	0.01	0.464	0.626
	LTE Band 17	10M	QPSK	1	0	-	Bottom Face	16mm	Ant 0	DSI 3	23790	710	17.94	19.20	1.337	0.06	0.200	0.267
	LTE Band 17	10M	QPSK	1	0	-	Edge 4	12mm	Ant 0	DSI 3	23790	710	17.94	19.20	1.337	0.02	0.169	0.226
	LTE Band 17	10M	QPSK	1	0	-	Edge 1	9mm	Ant 0	DSI 0	23790	710	23.70	25.00	1.349	0.04	0.190	0.256
835 MHz																		
02	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	189	836.4	26.30	27.00	1.175	0.06	1.070	1.257
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	128	824.2	26.28	27.00	1.180	0.01	0.991	1.170
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	251	848.8	26.23	27.00	1.194	0.03	1.050	1.254
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 4	0mm	Ant 0	DSI 1	189	836.4	26.30	27.00	1.175	0.03	0.554	0.651
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 1	0mm	Ant 0	DSI 1	189	836.4	26.30	27.00	1.175	0.01	0.502	0.590
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 2	0mm	Ant 0	DSI 1	189	836.4	26.30	27.00	1.175	0.06	0.060	0.070
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 3	0mm	Ant 0	DSI 1	189	836.4	26.30	27.00	1.175	0.05	0.045	0.053
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 3	189	836.4	23.60	24.40	1.202	0.03	0.536	0.644
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Face	17mm	Ant 0	DSI 0	189	836.4	30.95	31.50	1.135	0.02	0.389	0.442
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Edge 4	19mm	Ant 0	DSI 0	189	836.4	30.95	31.50	1.135	0.09	0.172	0.195
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Edge 1	2mm	Ant 0	DSI 0	189	836.4	30.95	31.50	1.135	-0.04	0.719	0.816
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Edge 1	2mm	Ant 0	DSI 0	128	824.2	30.80	31.50	1.175	0.06	0.690	0.811
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Edge 1	2mm	Ant 0	DSI 0	251	848.8	30.73	31.50	1.194	0.02	0.682	0.814
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 1	2mm	Ant 0	DSI 2	189	836.4	28.48	29.10	1.153	0.03	0.502	0.579
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	16mm	Ant 0	DSI 3	189	836.4	23.60	24.40	1.202	0.06	0.208	0.250
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 4	12mm	Ant 0	DSI 3	189	836.4	23.60	24.40	1.202	0.03	0.119	0.143
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Edge 1	9mm	Ant 0	DSI 2	189	836.4	28.48	29.10	1.153	0.04	0.166	0.191
03	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	4182	836.4	21.69	22.30	1.151	0.01	1.090	1.254
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	4132	826.4	21.62	22.30	1.169	0.09	1.070	1.251
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	4233	846.6	21.45	22.30	1.216	0.01	1.000	1.216
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 4	0mm	Ant 0	DSI 1	4182	836.4	21.69	22.30	1.151	0.05	0.535	0.616
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 1	0mm	Ant 0	DSI 1	4182	836.4	21.69	22.30	1.151	0.13	0.495	0.570
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 3	4182	836.4	19.21	19.70	1.119	0.09	0.545	0.610
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	17mm	Ant 0	DSI 0	4182	836.4	23.17	24.00	1.211	0.03	0.283	0.343
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 4	19mm	Ant 0	DSI 0	4182	836.4	23.17	24.00	1.211	0.13	0.125	0.151
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	4182	836.4	23.17	24.00	1.211	0.01	0.621	0.752
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 2	4182	836.4	22.93	23.50	1.140	0.06	0.550	0.627
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	16mm	Ant 0	DSI 3	4182	836.4	19.21	19.70	1.119	0.05	0.152	0.170
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 4	12mm	Ant 0	DSI 3	4182	836.4	19.21	19.70	1.119	0.02	0.113	0.126
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Edge 1	9mm	Ant 0	DSI 2	4182	836.4	22.93	23.50	1.140	0.03	0.154	0.176
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	20525	836.5	20.93	21.70	1.194	0.05	1.050	1.254
	LTE Band 5	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 0	DSI 1	20525	836.5	20.86	21.70	1.213	0.03	0.960	1.165
	LTE Band 5	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	20525	836.5	20.78	21.70	1.236	0.13	0.954	1.179
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	20525	836.5	20.93	21.70	1.194	0.02	0.484	0.578
	LTE Band 5	10M	QPSK	25	0	-	Edge 4	0mm	Ant 0	DSI 1	20525	836.5	20.86	21.70	1.213	0.09	0.400	0.485



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	LTE Band 5	10M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	20525	836.5	20.93	21.70	1.194	0.02	0.462	0.552
	LTE Band 5	10M	QPSK	25	0	-	Edge 1	0mm	Ant 0	DSI 1	20525	836.5	20.86	21.70	1.213	0.01	0.383	0.465
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	20525	836.5	18.39	19.10	1.178	0.03	0.496	0.584
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	20525	836.5	23.35	25.00	1.462	0.05	0.386	0.564
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	19mm	Ant 0	DSI 0	20525	836.5	23.35	25.00	1.462	0.06	0.135	0.197
	LTE Band 5	10M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	20525	836.5	23.35	25.00	1.462	0.02	0.680	0.994
	LTE Band 5	10M	QPSK	25	0	-	Edge 1	2mm	Ant 0	DSI 0	20525	836.5	22.46	24.00	1.426	0.03	0.560	0.798
	LTE Band 5	10M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	20525	836.5	22.43	24.00	1.435	0.05	0.558	0.801
	LTE Band 5	10M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 2	20525	836.5	21.98	23.40	1.387	0.01	0.480	0.666
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	16mm	Ant 0	DSI 3	20525	836.5	18.39	19.10	1.178	0.06	0.208	0.245
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	12mm	Ant 0	DSI 3	20525	836.5	18.39	19.10	1.178	0.02	0.114	0.134
	LTE Band 5	10M	QPSK	1	0	-	Edge 1	9mm	Ant 0	DSI 2	20525	836.5	21.98	23.40	1.387	0.08	0.164	0.227
04	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	20525	836.5	21.32	22.10	1.197	0.05	1.050	1.257
	LTE Band 5	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 2	DSI 1	20525	836.5	21.20	22.10	1.230	0.03	0.960	1.181
	LTE Band 5	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	20525	836.5	21.18	22.10	1.236	0.13	0.946	1.169
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	20525	836.5	21.32	22.10	1.197	0.02	0.846	1.012
	LTE Band 5	10M	QPSK	25	0	-	Edge 4	0mm	Ant 2	DSI 1	20525	836.5	21.20	22.10	1.230	0.09	0.824	1.014
	LTE Band 5	10M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	20525	836.5	21.18	22.10	1.236	0.13	0.820	1.013
	LTE Band 5	10M	QPSK	1	0	-	Edge 3	0mm	Ant 2	DSI 1	20525	836.5	21.32	22.10	1.197	0.02	0.146	0.175
	LTE Band 5	10M	QPSK	25	0	-	Edge 3	0mm	Ant 2	DSI 1	20525	836.5	21.20	22.10	1.230	0.01	0.143	0.176
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	16mm	Ant 2	DSI 0	20525	836.5	24.26	25.00	1.186	0.05	0.338	0.401
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	18mm	Ant 2	DSI 0	20525	836.5	24.26	25.00	1.186	0.06	0.117	0.139
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	12mm	Ant 2	DSI 1	20525	836.5	21.32	22.10	1.197	0.03	0.125	0.150
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	167300	836.5	21.75	22.40	1.161	-0.02	0.966	1.122
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	167300	836.5	21.70	22.40	1.175	0.01	0.957	1.124
05	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	167300	836.5	21.69	22.40	1.178	0.03	1.050	1.236
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.75	22.40	1.161	0.13	0.554	0.643
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.70	22.40	1.175	0.02	0.560	0.658
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	167300	836.5	21.75	22.40	1.161	0.09	0.455	0.528
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	167300	836.5	21.70	22.40	1.175	0.02	0.485	0.569
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	167300	836.5	18.68	19.80	1.294	0.01	0.503	0.651
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	17mm	Ant 0	DSI 0	167300	836.5	22.92	24.00	1.282	0.07	0.459	0.589
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	19mm	Ant 0	DSI 0	167300	836.5	23.91	25.00	1.285	0.03	0.146	0.188
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	167300	836.5	24.07	25.00	1.239	0.09	0.775	0.960
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	167300	836.5	23.91	25.00	1.285	0.02	0.769	0.988
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	167300	836.5	22.92	24.00	1.282	0.05	0.605	0.776
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 2	167300	836.5	22.23	23.40	1.309	0.01	0.512	0.670
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	16mm	Ant 0	DSI 3	167300	836.5	18.68	19.80	1.294	0.06	0.226	0.292
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 4	12mm	Ant 0	DSI 3	167300	836.5	18.68	19.80	1.294	-0.03	0.130	0.168
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	9mm	Ant 0	DSI 2	167300	836.5	22.23	23.40	1.309	0.01	0.148	0.194
1750 MHz																		
06	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	1413	1732.6	18.73	19.90	1.309	-0.06	0.953	1.248
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	1312	1712.4	18.62	19.90	1.343	0.01	0.903	1.213
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	1513	1752.6	18.71	19.90	1.315	0.03	0.929	1.222
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 4	0mm	Ant 0	DSI 1	1413	1732.6	18.73	19.90	1.309	0.13	0.451	0.590
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 1	0mm	Ant 0	DSI 1	1413	1732.6	18.73	19.90	1.309	-0.1	0.548	0.717
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 3	1413	1732.6	16.19	17.30	1.291	0.01	0.468	0.604
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Face	17mm	Ant 0	DSI 0	1413	1732.6	22.24	23.50	1.337	0.01	0.525	0.702
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 4	19mm	Ant 0	DSI 0	1413	1732.6	22.24	23.50	1.337	0.02	0.104	0.139
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	1413	1732.6	22.24	23.50	1.337	0.03	0.906	1.211
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	1312	1712.4	22.12	23.50	1.374	0.05	0.897	1.233
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	1513	1752.6	22.20	23.50	1.349	-0.07	0.911	1.229
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 2	1312	1712.4	19.56	21.00	1.393	-0.07	0.411	0.573
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Face	16mm	Ant 0	DSI 3	1413	1732.6	16.19	17.30	1.291	0.06	0.282	0.364
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 4	12mm	Ant 0	DSI 3	1413	1732.6	16.19	17.30	1.291	0.02	0.131	0.169
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Edge 1	9mm	Ant 0	DSI 2	1312	1712.4	19.56	21.00	1.393	0.01	0.319	0.444



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	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	18.40	19.10	1.175	-0.03	0.998	1.173
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132072	1720	18.36	19.10	1.186	-0.08	1.000	1.186
07	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132572	1770	18.23	19.10	1.222	-0.1	1.010	1.234
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	18.32	19.10	1.197	0.01	0.918	1.099
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	132072	1720	18.23	19.10	1.222	0.01	0.924	1.129
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	132572	1770	18.13	19.10	1.250	0.03	0.942	1.178
	LTE Band 66	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	18.29	19.10	1.205	0.13	0.915	1.103
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	132322	1745	18.40	19.10	1.175	0.02	0.408	0.479
	LTE Band 66	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	132322	1745	18.32	19.10	1.197	0.01	0.336	0.402
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	132322	1745	18.40	19.10	1.175	0.01	0.560	0.658
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	132322	1745	18.32	19.10	1.197	0.13	0.453	0.542
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	132572	1770	15.58	16.50	1.236	0.02	0.531	0.656
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	132572	1770	21.89	23.00	1.291	0.01	0.600	0.775
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	19mm	Ant 0	DSI 0	132322	1745	21.98	23.00	1.265	-0.08	0.121	0.153
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	132322	1745	21.98	23.00	1.265	-0.16	0.930	1.176
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	132072	1720	21.86	23.00	1.300	0.03	0.897	1.166
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	132572	1770	21.89	23.00	1.291	0.1	0.902	1.165
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	132322	1745	21.89	23.00	1.291	0.05	0.887	1.145
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	132072	1720	21.77	23.00	1.327	-0.03	0.880	1.168
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	132572	1770	21.81	23.00	1.315	0.04	0.863	1.135
	LTE Band 66	20M	QPSK	100	0	-	Edge 1	2mm	Ant 0	DSI 0	132322	1745	21.87	23.00	1.297	0.05	0.866	1.123
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 2	132322	1745	19.47	20.40	1.239	-0.16	0.496	0.614
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 0	DSI 3	132572	1770	15.58	16.50	1.236	0.06	0.310	0.383
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	12mm	Ant 0	DSI 3	132572	1770	15.58	16.50	1.236	0.03	0.067	0.083
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	9mm	Ant 0	DSI 2	132322	1745	19.47	20.40	1.239	0.04	0.368	0.456
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.88	19.50	1.153	-0.08	1.040	1.200
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.85	19.50	1.161	-0.03	1.000	1.161
08	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.79	19.50	1.178	-0.08	1.050	1.236
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	349000	1745	18.88	19.50	1.153	-0.02	0.476	0.549
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	349000	1745	18.85	19.50	1.161	0.01	0.462	0.537
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	349000	1745	18.88	19.50	1.153	0.13	0.595	0.686
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	349000	1745	18.85	19.50	1.161	0.02	0.601	0.698
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	349000	1745	15.80	16.90	1.288	0.01	0.505	0.651
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	17mm	Ant 0	DSI 0	349000	1745	21.01	22.00	1.256	0.02	0.585	0.735
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	19mm	Ant 0	DSI 0	349000	1745	21.18	22.00	1.208	0.07	0.104	0.126
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	349000	1745	21.18	22.00	1.208	0.06	0.930	1.123
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	349000	1745	21.16	22.00	1.213	0.01	0.925	1.122
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	349000	1745	21.01	22.00	1.256	0.02	0.954	1.198
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 2	349000	1745	18.27	19.40	1.297	0.02	0.510	0.662
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	16mm	Ant 0	DSI 3	349000	1745	15.80	16.90	1.288	0.06	0.165	0.213
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 4	12mm	Ant 0	DSI 3	349000	1745	15.80	16.90	1.288	0.02	0.114	0.147
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 1	9mm	Ant 0	DSI 2	349000	1745	18.27	19.40	1.297	0.04	0.171	0.222
1900 MHz																		
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	661	1880	24.57	25.10	1.130	-0.08	1.050	1.186
09	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	512	1850.2	24.45	25.10	1.161	-0.01	1.080	1.254
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	810	1909.8	24.53	25.10	1.140	-0.09	1.030	1.174
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Edge 4	0mm	Ant 0	DSI 1	661	1880	24.57	25.10	1.130	0.06	0.732	0.827
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Edge 4	0mm	Ant 0	DSI 1	512	1850.2	24.45	25.10	1.161	0.01	0.725	0.842
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Edge 4	0mm	Ant 0	DSI 1	810	1909.8	24.53	25.10	1.140	0.06	0.710	0.810
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Edge 1	0mm	Ant 0	DSI 1	661	1880	24.57	25.10	1.130	0.09	0.440	0.497
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 3	512	1850.2	21.76	22.50	1.186	0.06	0.566	0.671
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Bottom Face	17mm	Ant 0	DSI 0	512	1850.2	28.16	28.50	1.081	0.07	0.245	0.265
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Edge 4	19mm	Ant 0	DSI 0	512	1850.2	28.16	28.50	1.081	0.06	0.167	0.181
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Edge 1	2mm	Ant 0	DSI 0	661	1880	28.05	28.50	1.109	-0.05	0.561	0.622
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	16mm	Ant 0	DSI 3	512	1850.2	21.76	22.50	1.186	0.03	0.134	0.159
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Edge 4	12mm	Ant 0	DSI 3	512	1850.2	21.76	22.50	1.186	0.01	0.169	0.200



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	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Edge 1	9mm	Ant 0	DSI 0	661	1880	28.05	28.50	1.109	-0.05	0.312	0.346
10	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	9400	1880	18.82	20.20	1.374	-0.08	0.910	1.250
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	9262	1852.4	18.76	20.20	1.393	0.06	0.886	1.234
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	9538	1907.6	18.72	20.20	1.406	0.01	0.826	1.161
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 4	0mm	Ant 0	DSI 1	9400	1880	18.82	20.20	1.374	0.06	0.700	0.962
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 4	0mm	Ant 0	DSI 1	9262	1852.4	18.76	20.20	1.393	0.09	0.665	0.926
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 4	0mm	Ant 0	DSI 1	9538	1907.6	18.72	20.20	1.406	0.06	0.707	0.994
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 1	0mm	Ant 0	DSI 1	9400	1880	18.82	20.20	1.374	-0.14	0.436	0.599
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 3	9400	1880	16.86	17.60	1.186	-0.02	0.496	0.588
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Face	17mm	Ant 0	DSI 0	9400	1880	22.17	23.50	1.358	0.01	0.452	0.614
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 4	19mm	Ant 0	DSI 0	9538	1907.6	22.16	23.50	1.361	0.01	0.306	0.417
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	9400	1880	22.17	23.50	1.358	0.06	0.900	1.222
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	9262	1852.4	22.16	23.50	1.361	0.01	0.901	1.227
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 0	9538	1907.6	22.16	23.50	1.361	0.05	0.897	1.221
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 1	2mm	Ant 0	DSI 2	9262	1852.4	19.61	20.90	1.346	0.03	0.451	0.607
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Face	16mm	Ant 0	DSI 3	9400	1880	16.86	17.60	1.186	0.03	0.119	0.141
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 4	12mm	Ant 0	DSI 3	9400	1880	16.86	17.60	1.186	0.01	0.120	0.142
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Edge 1	9mm	Ant 0	DSI 2	9262	1852.4	19.61	20.90	1.346	0.09	0.286	0.385
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	18900	1880	19.25	20.10	1.216	0.01	0.955	1.161
11	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	18700	1860	19.22	20.10	1.225	0.06	1.010	1.237
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	19100	1900	19.18	20.10	1.236	0.01	0.984	1.216
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	18900	1880	19.20	20.10	1.230	-0.08	0.898	1.105
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	18700	1860	19.13	20.10	1.250	-0.02	0.850	1.063
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	19100	1900	19.06	20.10	1.271	0.01	0.847	1.076
	LTE Band 2	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 0	DSI 1	18900	1880	19.17	20.10	1.239	0.01	0.890	1.103
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	18900	1880	19.25	20.10	1.216	0.03	0.740	0.900
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	18700	1860	19.22	20.10	1.225	0.03	0.730	0.894
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	19100	1900	19.18	20.10	1.236	0.01	0.703	0.869
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	18900	1880	19.20	20.10	1.230	0.06	0.714	0.878
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	18700	1860	19.13	20.10	1.250	0.03	0.709	0.886
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	19100	1900	19.06	20.10	1.271	0.02	0.700	0.889
	LTE Band 2	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	18900	1880	19.17	20.10	1.239	-0.02	0.707	0.876
	LTE Band 2	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	18900	1880	19.25	20.10	1.216	0.06	0.495	0.602
	LTE Band 2	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	18900	1880	19.20	20.10	1.230	-0.02	0.487	0.599
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	18700	1860	16.34	17.50	1.306	0.03	0.512	0.669
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	18700	1860	22.00	23.20	1.318	0.01	0.467	0.616
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	19mm	Ant 0	DSI 0	18900	1880	22.05	23.20	1.303	0.02	0.315	0.410
	LTE Band 2	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	18900	1880	22.05	23.20	1.303	-0.04	0.933	1.216
	LTE Band 2	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	18700	1860	22.00	23.20	1.318	0.01	0.886	1.168
	LTE Band 2	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	19100	1900	22.01	23.20	1.315	0.01	0.864	1.136
	LTE Band 2	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	18900	1880	21.97	23.20	1.327	0.03	0.879	1.167
	LTE Band 2	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	18700	1860	21.72	23.20	1.406	0.03	0.854	1.201
	LTE Band 2	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	19100	1900	21.69	23.20	1.416	0.01	0.851	1.205
	LTE Band 2	20M	QPSK	100	0	-	Edge 1	2mm	Ant 0	DSI 0	18900	1880	21.89	23.20	1.352	0.06	0.860	1.163
	LTE Band 2	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 2	18900	1880	19.56	20.60	1.271	-0.04	0.525	0.667
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 0	DSI 3	18700	1860	16.34	17.50	1.306	0.03	0.251	0.328
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	12mm	Ant 0	DSI 3	18700	1860	16.34	17.50	1.306	0.04	0.155	0.202
	LTE Band 2	20M	QPSK	1	0	-	Edge 1	9mm	Ant 0	DSI 2	18900	1880	19.56	20.60	1.271	-0.05	0.353	0.449
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	18900	1880	15.48	16.10	1.153	0.02	0.980	1.130
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	18700	1860	15.43	16.10	1.167	0.01	0.965	1.126
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	19100	1900	15.36	16.10	1.186	0.06	0.999	1.185
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	18900	1880	15.46	16.10	1.159	0.04	0.940	1.089
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	18700	1860	15.35	16.10	1.189	-0.02	1.000	1.189
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	19100	1900	15.36	16.10	1.186	0.06	0.986	1.169
	LTE Band 2	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	18900	1880	15.40	16.10	1.175	0.01	0.964	1.133
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	18900	1880	15.48	16.10	1.153	0.06	1.000	1.153



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	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	18700	1860	15.43	16.10	1.167	0.04	0.977	1.140
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	19100	1900	15.36	16.10	1.186	-0.02	0.983	1.166
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	18900	1880	15.46	16.10	1.159	0.06	1.000	1.159
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	18700	1860	15.35	16.10	1.189	-0.08	1.010	1.200
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	19100	1900	15.36	16.10	1.186	-0.07	1.040	1.233
	LTE Band 2	20M	QPSK	100	0	-	Edge 4	0mm	Ant 2	DSI 1	18900	1880	15.40	16.10	1.175	0.06	1.000	1.175
	LTE Band 2	20M	QPSK	1	0	-	Edge 3	0mm	Ant 2	DSI 0	18900	1880	24.17	25.00	1.211	0.01	0.058	0.070
	LTE Band 2	20M	QPSK	50	0	-	Edge 3	0mm	Ant 2	DSI 0	18900	1880	23.06	24.00	1.242	0.06	0.062	0.077
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 2	DSI 0	18700	1860	24.06	25.00	1.242	0.03	0.520	0.646
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	16mm	Ant 2	DSI 0	18700	1860	22.75	24.00	1.334	0.02	0.430	0.573
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	18mm	Ant 2	DSI 0	18700	1860	24.06	25.00	1.242	0.05	0.541	0.672
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	18mm	Ant 2	DSI 0	18700	1860	22.75	24.00	1.334	0.04	0.456	0.608
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	12mm	Ant 2	DSI 1	18700	1860	15.43	16.10	1.167	0.06	0.279	0.326
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	376000	1880	19.33	19.90	1.140	0.06	0.991	1.130
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	372000	1860	19.24	19.90	1.164	0.06	1.000	1.164
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	380000	1900	19.20	19.90	1.175	0.01	0.950	1.116
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	376000	1880	19.28	19.90	1.153	0.08	0.957	1.104
12	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	372000	1860	19.10	19.90	1.202	-0.08	1.040	1.250
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	380000	1900	19.20	19.90	1.175	0.02	0.977	1.148
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	376000	1880	19.26	19.90	1.159	0.01	0.981	1.137
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376000	1880	19.33	19.90	1.140	0.06	0.770	0.878
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	372000	1860	19.24	19.90	1.164	0.04	0.752	0.875
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	380000	1900	19.20	19.90	1.175	-0.02	0.738	0.867
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376000	1880	19.28	19.90	1.153	0.06	0.725	0.836
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	372000	1860	19.10	19.90	1.202	-0.08	0.742	0.892
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	380000	1900	19.20	19.90	1.175	0.06	0.718	0.844
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376000	1880	19.26	19.90	1.159	0.04	0.738	0.855
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	376000	1880	19.33	19.90	1.140	0.06	0.503	0.574
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	376000	1880	19.28	19.90	1.153	0.01	0.517	0.596
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	372000	1860	16.10	17.30	1.318	0.01	0.511	0.674
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	17mm	Ant 0	DSI 0	372000	1860	22.03	23.00	1.250	0.04	0.532	0.665
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	19mm	Ant 0	DSI 0	376000	1880	22.13	23.00	1.222	0.07	0.257	0.314
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	376000	1880	22.13	23.00	1.222	0.03	0.987	1.206
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	372000	1860	22.07	23.00	1.239	-0.02	1.000	1.239
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	380000	1900	22.08	23.00	1.236	0.04	0.956	1.182
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	376000	1880	22.06	23.00	1.242	0.03	0.970	1.204
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	372000	1860	22.03	23.00	1.250	-0.06	0.938	1.173
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	380000	1900	21.98	23.00	1.265	0.1	0.966	1.222
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	376000	1880	22.03	23.00	1.250	0.03	0.986	1.233
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 2	372000	1860	19.24	20.40	1.306	0.04	0.520	0.679
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	16mm	Ant 0	DSI 3	372000	1860	16.10	17.30	1.318	0.09	0.279	0.368
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	12mm	Ant 0	DSI 3	372000	1860	16.10	17.30	1.318	0.01	0.167	0.220
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	9mm	Ant 0	DSI 2	372000	1860	19.24	20.40	1.306	0.03	0.223	0.291



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2600 MHZ																				
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	21100	2535	12.39	13.60	1.321	-	-	0.09	0.351	0.464
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	21100	2535	12.35	13.60	1.334	-	-	0.06	0.324	0.432
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	21100	2535	12.39	13.60	1.321	-	-	0.03	0.890	1.176
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	20850	2510	12.37	13.60	1.327	-	-	0.05	0.848	1.126
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	21350	2560	12.24	13.60	1.368	-	-	-0.02	0.901	1.232
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	21100	2535	12.35	13.60	1.334	-	-	-0.08	0.871	1.161
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	20850	2510	12.25	13.60	1.365	-	-	0.02	0.859	1.172
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	21350	2560	12.16	13.60	1.393	-	-	0.01	0.870	1.212
	LTE Band 7	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	21100	2535	12.32	13.60	1.343	-	-	0.06	0.862	1.157
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	21100	2535	12.39	13.60	1.321	-	-	0.04	0.097	0.128
	LTE Band 7	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	21100	2535	12.35	13.60	1.334	-	-	-0.08	0.079	0.105
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	21350	2560	9.60	11.00	1.380	-	-	0.01	0.497	0.686
	LTE Band 7C	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	21350+21152	2560+2540.2	12.21	13.60	1.377	-	-	0.03	0.865	1.191
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	21100	2535	21.87	22.80	1.239	-	-	0.01	0.496	0.614
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	19mm	Ant 0	DSI 0	21350	2560	21.81	22.80	1.256	-	-	0.05	0.636	0.799
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	21100	2535	21.87	22.80	1.239	-	-	0.03	0.865	1.072
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	20850	2510	21.82	22.80	1.253	-	-	-0.02	0.877	1.099
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 0	21350	2560	21.81	22.80	1.256	-	-	0.08	0.850	1.068
	LTE Band 7	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	21100	2535	21.81	22.80	1.256	-	-	-0.01	0.844	1.060
	LTE Band 7	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	20850	2510	21.71	22.80	1.285	-	-	0.03	0.823	1.058
	LTE Band 7	20M	QPSK	50	0	-	Edge 1	2mm	Ant 0	DSI 0	21350	2560	21.72	22.80	1.282	-	-	0.05	0.847	1.086
	LTE Band 7	20M	QPSK	100	0	-	Edge 1	2mm	Ant 0	DSI 0	21100	2535	21.78	22.80	1.265	-	-	0.04	0.840	1.062
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	2mm	Ant 0	DSI 2	20850	2510	19.18	20.20	1.265	-	-	-0.02	0.512	0.648
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 0	DSI 3	21350	2560	9.60	11.00	1.380	-	-	0.06	0.131	0.181
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	12mm	Ant 0	DSI 3	21350	2560	9.60	11.00	1.380	-	-	0.03	0.156	0.215
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	9mm	Ant 0	DSI 2	20850	2510	19.18	20.20	1.265	-	-	0.04	0.288	0.364
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	21100	2535	16.30	16.90	1.148	-	-	0.02	1.010	1.160
13	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	20850	2510	16.27	16.90	1.156	-	-	0.09	1.080	1.249
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	21350	2560	16.24	16.90	1.164	-	-	0.01	1.060	1.234
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	21100	2535	16.29	16.90	1.151	-	-	-0.09	0.961	1.106
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	20850	2510	16.22	16.90	1.169	-	-	0.06	1.000	1.169
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	21350	2560	16.14	16.90	1.191	-	-	0.01	0.986	1.175
	LTE Band 7	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	21100	2535	16.25	16.90	1.161	-	-	0.06	0.963	1.118
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	21100	2535	16.30	16.90	1.148	-	-	0.09	0.676	0.776
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	21100	2535	16.29	16.90	1.151	-	-	0.07	0.648	0.746
	LTE Band 7	20M	QPSK	1	0	-	Edge 3	0mm	Ant 2	DSI 0	21100	2535	23.08	24.00	1.236	-	-	0.02	0.288	0.356
	LTE Band 7	20M	QPSK	50	0	-	Edge 3	0mm	Ant 2	DSI 0	21100	2535	22.13	23.00	1.222	-	-	0.06	0.235	0.287
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 2	DSI 0	20850	2510	22.92	24.00	1.282	-	-	0.01	0.507	0.650
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	18mm	Ant 2	DSI 0	21100	2535	23.08	24.00	1.236	-	-	0.08	0.542	0.670
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	12mm	Ant 2	DSI 1	21100	2535	16.30	16.90	1.148	-	-	0.06	0.107	0.123
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	507000	2535	13.54	14.20	1.164	-	-	0.06	0.482	0.561
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	507000	2535	13.54	14.20	1.164	-	-	-0.08	0.468	0.545
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	507000	2535	13.54	14.20	1.164	-	-	0.04	1.000	1.164
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	507000	2535	13.54	14.20	1.164	-	-	-0.04	1.070	1.246
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	507000	2535	13.40	14.20	1.202	-	-	-0.09	0.977	1.175
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	507000	2535	13.54	14.20	1.164	-	-	0.06	0.136	0.158
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	507000	2535	13.54	14.20	1.164	-	-	0.01	0.141	0.164
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	507000	2535	10.31	11.60	1.346	-	-	0.01	0.506	0.681
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	17mm	Ant 0	DSI 0	507000	2535	23.58	24.00	1.102	-	-	0.06	0.470	0.518
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	19mm	Ant 0	DSI 0	507000	2535	23.43	24.00	1.140	-	-	0.09	0.720	0.821
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	507000	2535	23.58	24.00	1.102	-	-	0.07	0.823	0.907



FCC SAR Test Report

Report No. : FA230412

	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	507000	2535	23.43	24.00	1.140	-	-	0.01	0.847	0.966
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 0	507000	2535	22.47	23.00	1.130	-	-	0.06	0.650	0.734
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 1	2mm	Ant 0	DSI 2	507000	2535	21.76	22.50	1.186	-	-	0.04	0.560	0.664
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	16mm	Ant 0	DSI 3	507000	2535	10.31	11.60	1.346	-	-	0.06	0.112	0.151
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	12mm	Ant 0	DSI 3	507000	2535	10.31	11.60	1.346	-	-	0.04	0.121	0.163
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 1	9mm	Ant 0	DSI 2	507000	2535	21.76	22.50	1.186	-	-	0.03	0.218	0.258
14	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	507000	2535	14.59	15.70	1.291	-	-	0.03	0.973	1.256
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	507000	2535	14.52	15.70	1.312	-	-	0.06	0.944	1.239
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	507000	2535	14.46	15.70	1.330	-	-	0.01	0.917	1.220
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	507000	2535	14.59	15.70	1.291	-	-	0.06	0.671	0.866
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	507000	2535	14.52	15.70	1.312	-	-	0.09	0.636	0.835
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	507000	2535	14.46	15.70	1.330	-	-	0.07	0.648	0.862
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 3	0mm	Ant 2	DSI 0	507000	2535	22.86	24.00	1.300	-	-	0.04	0.208	0.270
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 3	0mm	Ant 2	DSI 0	507000	2535	22.68	24.00	1.355	-	-	0.07	0.207	0.281
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	16mm	Ant 2	DSI 0	507000	2535	22.86	24.00	1.300	-	-	0.06	0.498	0.647
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	18mm	Ant 2	DSI 0	507000	2535	22.86	24.00	1.300	-	-	0.02	0.504	0.655
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	12mm	Ant 2	DSI 1	507000	2535	14.59	15.70	1.291	-	-	0.09	0.102	0.132
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	38000	2595	14.91	15.70	1.199	62.9	1.006	-0.04	0.437	0.527
	LTE Band 38	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	38000	2595	14.85	15.70	1.216	62.9	1.006	0.01	0.419	0.513
15	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	38000	2595	14.91	15.70	1.199	62.9	1.006	-0.05	1.040	1.255
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	37850	2580	14.82	15.70	1.225	62.9	1.006	0.02	0.992	1.222
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	38150	2610	14.83	15.70	1.222	62.9	1.006	0.06	1.020	1.254
	LTE Band 38	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	38000	2595	14.85	15.70	1.216	62.9	1.006	0.09	0.946	1.157
	LTE Band 38	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	37850	2580	14.68	15.70	1.265	62.9	1.006	0.07	0.952	1.211
	LTE Band 38	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	38150	2610	14.63	15.70	1.279	62.9	1.006	0.01	0.940	1.210
	LTE Band 38	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	38000	2595	14.82	15.70	1.225	62.9	1.006	0.06	0.939	1.157
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	38000	2595	12.43	13.10	1.167	62.9	1.006	0.01	0.561	0.659
	LTE Band 38	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 0	38000	2595	23.20	24.00	1.202	62.9	1.006	0.01	0.108	0.131
	LTE Band 38	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 0	38000	2595	22.15	23.00	1.216	62.9	1.006	0.03	0.087	0.106
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	38000	2595	23.20	24.00	1.202	62.9	1.006	0.06	0.291	0.352
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	19mm	Ant 0	DSI 0	38000	2595	23.20	24.00	1.202	62.9	1.006	0.04	0.394	0.477
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 0	DSI 3	38000	2595	12.43	13.10	1.167	62.9	1.006	0.06	0.107	0.126
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	12mm	Ant 0	DSI 3	38000	2595	12.43	13.10	1.167	62.9	1.006	0.01	0.135	0.158
	LTE Band 38	20M	QPSK	1	0	-	Edge 1	9mm	Ant 0	DSI 0	38000	2595	23.20	24.00	1.202	62.9	1.006	0.02	0.232	0.281
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 0	DSI 1	519000	2595	12.86	13.70	1.213	-	-	0.03	0.420	0.510
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	0mm	Ant 0	DSI 1	519000	2595	12.66	13.70	1.271	-	-	0.01	0.400	0.508
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 0	DSI 1	519000	2595	12.86	13.70	1.213	-	-	0.05	0.980	1.189
16	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	0mm	Ant 0	DSI 1	519000	2595	12.66	13.70	1.271	-	-	-0.05	0.989	1.257
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Edge 4	0mm	Ant 0	DSI 1	519000	2595	12.64	13.00	1.086	-	-	0.01	0.973	1.057
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 1	0mm	Ant 0	DSI 1	519000	2595	12.86	13.70	1.213	-	-	0.03	0.124	0.150
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 1	0mm	Ant 0	DSI 1	519000	2595	12.66	13.70	1.271	-	-	0.05	0.100	0.127
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	0mm	Ant 0	DSI 3	519000	2595	9.45	11.10	1.462	-	-	0.03	0.442	0.646
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	17mm	Ant 0	DSI 0	519000	2595	22.65	23.50	1.216	-	-	0.02	0.492	0.598
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	19mm	Ant 0	DSI 0	519000	2595	22.54	23.50	1.247	-	-	0.06	0.716	0.893
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 1	2mm	Ant 0	DSI 0	519000	2595	22.65	23.50	1.216	-	-	-0.05	0.961	1.169
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 1	2mm	Ant 0	DSI 0	519000	2595	22.54	23.50	1.247	-	-	0.03	0.940	1.173
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Edge 1	2mm	Ant 0	DSI 0	519000	2595	21.55	22.50	1.245	-	-	0.04	0.780	0.971
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 1	2mm	Ant 0	DSI 2	519000	2595	20.04	21.10	1.276	-	-	0.02	0.530	0.677
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	16mm	Ant 0	DSI 3	519000	2595	9.45	11.10	1.462	-	-	0.06	0.106	0.155
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	12mm	Ant 0	DSI 3	519000	2595	9.45	11.10	1.462	-	-	0.01	0.113	0.165
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 1	9mm	Ant 0	DSI 2	519000	2595	20.04	21.10	1.276	-	-	0.08	0.276	0.352
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	40620	2593	17.67	18.20	1.130	62.9	1.006	0.03	0.939	1.067
17	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	39750	2506	17.65	18.20	1.135	62.9	1.006	0.04	1.080	1.233
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	40185	2549.5	17.59	18.20	1.151	62.9	1.006	0.01	1.000	1.158
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	41055	2636.5	17.65	18.20	1.135	62.9	1.006	0.08	0.976	1.114
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	41490	2680	17.61	18.20	1.146	62.9	1.006	0.03	0.929	1.071



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	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	40620	2593	17.61	18.20	1.146	62.9	1.006	0.01	0.972	1.120
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	39750	2506	17.53	18.20	1.167	62.9	1.006	0.01	0.974	1.143
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	40185	2549.5	17.56	18.20	1.159	62.9	1.006	0.01	0.994	1.159
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	41055	2636.5	17.35	18.20	1.216	62.9	1.006	0.02	0.991	1.212
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	41490	2680	17.45	18.20	1.189	62.9	1.006	-0.02	0.964	1.153
	LTE Band 41	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	40620	2593	17.59	18.20	1.151	62.9	1.006	0.05	0.970	1.123
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	40620	2593	17.67	18.20	1.130	62.9	1.006	-0.05	0.588	0.668
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	39750	2506	17.65	18.20	1.135	62.9	1.006	0.06	0.512	0.585
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	40185	2549.5	17.59	18.20	1.151	62.9	1.006	0.01	0.544	0.630
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	41055	2636.5	17.65	18.20	1.135	62.9	1.006	0.08	0.560	0.639
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	41490	2680	17.61	18.20	1.146	62.9	1.006	0.09	0.548	0.632
	LTE Band 41	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	40620	2593	17.61	18.20	1.146	62.9	1.006	0.03	0.574	0.661
	LTE Band 41	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	39750	2506	17.53	18.20	1.167	62.9	1.006	0.01	0.539	0.633
	LTE Band 41	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	40185	2549.5	17.56	18.20	1.159	62.9	1.006	0.03	0.550	0.641
	LTE Band 41	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	41055	2636.5	17.35	18.20	1.216	62.9	1.006	0.05	0.548	0.670
	LTE Band 41	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	41490	2680	17.45	18.20	1.189	62.9	1.006	0.09	0.540	0.646
	LTE Band 41	20M	QPSK	100	0	-	Edge 4	0mm	Ant 2	DSI 1	40620	2593	17.59	18.20	1.151	62.9	1.006	0.01	0.535	0.619
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 2	DSI 1	39750+39948	2506+2525.8	17.53	18.20	1.167	62.9	1.006	0.03	0.950	1.115
	LTE Band 41	20M	QPSK	1	0	-	Edge 3	0mm	Ant 2	DSI 0	40620	2593	23.99	25.00	1.262	62.9	1.006	0.03	0.063	0.080
	LTE Band 41	20M	QPSK	50	0	-	Edge 3	0mm	Ant 2	DSI 0	40620	2593	23.00	24.00	1.259	62.9	1.006	0.01	0.060	0.076
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 2	DSI 0	39750	2506	23.69	25.00	1.352	62.9	1.006	-0.04	0.490	0.666
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	18mm	Ant 2	DSI 0	40620	2593	23.99	25.00	1.262	62.9	1.006	0.03	0.480	0.609
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	12mm	Ant 2	DSI 1	40620	2593	17.67	18.20	1.130	62.9	1.006	0.01	0.108	0.123
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 2	DSI 1	518598	2592.99	16.03	17.20	1.309	-	-	0.03	0.913	1.195
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 2	DSI 1	518598	2592.99	16.03	17.20	1.309	-	-	0.05	0.950	1.244
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 2	DSI 1	518598	2592.99	15.91	17.20	1.346	-	-	0.01	0.910	1.225
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 2	DSI 1	518598	2592.99	16.03	17.20	1.309	-	-	0.03	0.622	0.814
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 2	DSI 1	518598	2592.99	16.03	17.20	1.309	-	-	-0.02	0.665	0.871
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 4	0mm	Ant 2	DSI 1	518598	2592.99	15.91	17.20	1.346	-	-	0.01	0.650	0.875
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 2	DSI 0	518598	2592.99	25.85	27.00	1.303	-	-	0.08	0.062	0.081
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 2	DSI 0	518598	2592.99	25.64	27.00	1.368	-	-	0.03	0.062	0.085
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	16mm	Ant 2	DSI 0	518598	2592.99	25.64	27.00	1.368	-	-	0.01	0.485	0.663
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	18mm	Ant 2	DSI 0	518598	2592.99	25.64	27.00	1.368	-	-	0.04	0.610	0.834
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	12mm	Ant 2	DSI 1	518598	2592.99	16.03	17.20	1.309	-	-	0.01	0.254	0.333
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	518598	2592.99	12.93	13.60	1.167	-	-	0.03	0.936	1.092
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	518598	2592.99	12.91	13.60	1.172	-	-	-0.02	0.886	1.039
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	518598	2592.99	12.89	13.60	1.178	-	-	0.01	0.852	1.003
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	518598	2592.99	12.93	13.60	1.167	-	-	-0.04	1.060	1.237
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	518598	2592.99	12.91	13.60	1.172	-	-	0.03	1.030	1.207
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	518598	2592.99	12.89	13.60	1.178	-	-	-0.02	1.020	1.201
18	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	14.97	15.70	1.183	-	-	-0.04	1.060	1.254
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	14.91	15.70	1.199	-	-	0.06	0.968	1.161
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	14.88	15.70	1.208	-	-	0.01	0.961	1.161
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	518598	2592.99	14.97	15.70	1.183	-	-	0.06	0.016	0.019
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	518598	2592.99	14.91	15.70	1.199	-	-	0.03	0.021	0.025
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	518598	2592.99	14.97	15.70	1.183	-	-	0.01	0.735	0.870
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	518598	2592.99	14.91	15.70	1.199	-	-	0.02	0.946	1.135
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	518598	2592.99	14.88	15.70	1.208	-	-	0.03	0.862	1.041
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	518598	2592.99	16.07	16.80	1.183	-	-	-0.03	0.866	1.025
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	518598	2592.99	16.04	16.80	1.191	-	-	0.02	1.050	1.251
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	518598	2592.99	16.03	16.80	1.194	-	-	0.05	0.960	1.146
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 5	DSI 0	518598	2592.99	16.07	16.80	1.183	-	-	0.01	0.005	0.006
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 5	DSI 0	518598	2592.99	16.04	16.80	1.191	-	-	0.03	0.013	0.015
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	518598	2592.99	16.07	16.80	1.183	-	-	0.06	0.086	0.102
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	518598	2592.99	16.04	16.80	1.191	-	-	0.01	0.131	0.156
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 2	518598	2592.99	13.06	14.20	1.300	-	-	0.02	0.525	0.683



3500/3800 MHZ																				
	LTE Band 42	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	42590	3500	12.43	13.70	1.340	62.9	1.006	0.08	0.422	0.569
	LTE Band 42	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 3	DSI 1	42590	3500	12.40	13.70	1.349	62.9	1.006	0.01	0.406	0.551
19	LTE Band 42	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	42590	3500	12.43	13.70	1.340	62.9	1.006	0.01	0.924	1.245
	LTE Band 42	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	42190	3460	12.39	13.70	1.352	62.9	1.006	0.03	0.903	1.228
	LTE Band 42	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	42990	3540	12.24	13.70	1.400	62.9	1.006	0.01	0.871	1.226
	LTE Band 42	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	42590	3500	12.40	13.70	1.349	62.9	1.006	0.03	0.858	1.164
	LTE Band 42	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	42190	3460	12.26	13.70	1.393	62.9	1.006	0.02	0.830	1.163
	LTE Band 42	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	42590	3500	12.33	13.70	1.371	62.9	1.006	-0.06	0.825	1.138
	LTE Band 42	20M	QPSK	100	0	-	Edge 4	0mm	Ant 3	DSI 1	43340	3575	12.36	13.70	1.361	62.9	1.006	0.03	0.850	1.164
	LTE Band 42C	20M	QPSK	1	99	-	Edge 4	0mm	Ant 3	DSI 1	42590+ 42788	3500+ 3519.8	12.32	13.70	1.374	62.9	1.006	0.03	0.860	1.189
	LTE Band 42	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 3	DSI 0	42590	3500	23.16	24.00	1.213	62.9	1.006	0.02	0.330	0.403
	LTE Band 42	20M	QPSK	1	0	-	Edge 4	20mm	Ant 3	DSI 0	42590	3500	23.16	24.00	1.213	62.9	1.006	0.1	0.378	0.461
	LTE Band 42	20M	QPSK	1	0	-	Bottom Face	16mm	Ant 3	DSI 1	42590	3500	12.43	13.70	1.340	62.9	1.006	0.03	0.221	0.298
	LTE Band 42	20M	QPSK	1	0	-	Edge 4	12mm	Ant 3	DSI 1	42590	3500	12.43	13.70	1.340	62.9	1.006	-0.02	0.301	0.406
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	656000	3840	8.05	8.90	1.216	-	-	0.08	0.544	0.662
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	656000	3840	7.94	8.90	1.247	-	-	0.03	0.622	0.776
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	656000	3840	8.05	8.90	1.216	-	-	0.03	0.995	1.210
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	656000	3840	7.94	8.90	1.247	-	-	-0.01	1.000	1.247
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	656000	3840	7.91	8.90	1.256	-	-	0.03	0.962	1.208
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	656000	3840	21.90	22.90	1.259	-	-	0.03	0.804	1.012
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	656000	3840	21.83	22.90	1.279	-	-	0.08	0.795	1.017
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	656000	3840	21.76	22.90	1.300	-	-	0.02	0.780	1.014
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	20mm	Ant 3	DSI 0	656000	3840	21.83	22.90	1.279	-	-	0.01	0.795	1.017
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	16mm	Ant 3	DSI 1	656000	3840	7.94	8.90	1.247	-	-	0.01	0.245	0.306
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	12mm	Ant 3	DSI 1	656000	3840	7.94	8.90	1.247	-	-	0.02	0.315	0.393
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	633334	3500.01	8.08	8.90	1.208	-	-	0.08	0.531	0.641
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	633334	3500.01	7.96	8.90	1.242	-	-	0.03	0.447	0.555
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	633334	3500.01	8.08	8.90	1.208	-	-	0.02	0.708	0.855
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	633334	3500.01	7.96	8.90	1.242	-	-	0.08	0.731	0.908
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	633334	3500.01	7.88	8.90	1.265	-	-	0.01	0.710	0.898
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	633334	3500.01	21.90	22.90	1.259	-	-	0.06	0.652	0.821
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	633334	3500.01	21.83	22.90	1.279	-	-	0.05	0.674	0.862
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	633334	3500.01	21.78	22.90	1.294	-	-	0.03	0.648	0.839
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	20mm	Ant 3	DSI 0	633334	3500.01	21.90	22.90	1.259	-	-	0.01	0.651	0.820
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	16mm	Ant 3	DSI 1	633334	3500.01	7.96	8.90	1.242	-	-	0.02	0.201	0.250
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	12mm	Ant 3	DSI 1	633334	3500.01	7.96	8.90	1.242	-	-	0.02	0.308	0.382
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	656000	3840	12.89	13.50	1.151	-	-	0.08	0.808	0.930
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	656000	3840	12.79	13.50	1.178	-	-	0.03	0.777	0.915
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	656000	3840	12.76	13.50	1.186	-	-	0.01	0.782	0.927
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	12.89	13.50	1.151	-	-	0.03	0.996	1.146
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	12.79	13.50	1.178	-	-	0.02	0.952	1.121
20	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	12.76	13.50	1.186	-	-	-0.06	1.060	1.257
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	633334	3500.01	12.16	13.50	1.361	-	-	0.01	0.552	0.752
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	633334	3500.01	12.03	13.50	1.403	-	-	0.08	0.526	0.738
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	633334	3500.01	12.16	13.50	1.361	-	-	0.01	0.737	1.003
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	633334	3500.01	12.03	13.50	1.403	-	-	0.03	0.786	1.103
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	633334	3500.01	11.96	13.50	1.426	-	-	0.02	0.740	1.055
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	656000	3840	12.58	13.70	1.294	-	-	0.01	0.959	1.241
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	656000	3840	12.53	13.70	1.309	-	-	0.03	0.929	1.216
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	656000	3840	12.52	13.70	1.312	-	-	0.01	0.920	1.207
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	656000	3840	12.58	13.70	1.294	-	-	0.01	0.056	0.072
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	656000	3840	12.53	13.70	1.309	-	-	0.03	0.050	0.065
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	656000	3840	12.58	13.70	1.294	-	-	0.08	0.828	1.072
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	656000	3840	12.53	13.70	1.309	-	-	0.03	0.855	1.119
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	656000	3840	12.52	13.70	1.312	-	-	0.01	0.889	1.167



FCC SAR Test Report

Report No. : FA230412

FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	633334	3500.01	12.46	13.70	1.330	-	-	0.01	0.622	0.828
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	633334	3500.01	12.31	13.70	1.377	-	-	0.06	0.627	0.864
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	633334	3500.01	12.29	13.70	1.384	-	-	0.01	0.629	0.870
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	633334	3500.01	12.46	13.70	1.330	-	-	0.01	0.010	0.013
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	633334	3500.01	12.31	13.70	1.377	-	-	0.02	0.013	0.018
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	633334	3500.01	12.46	13.70	1.330	-	-	0.03	0.699	0.930
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	633334	3500.01	12.31	13.70	1.377	-	-	-0.04	0.711	0.979
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	633334	3500.01	12.29	13.70	1.384	-	-	0.01	0.684	0.946
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	656000	3840	11.66	12.90	1.330	-	-	0.01	0.561	0.746
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	656000	3840	11.52	12.90	1.374	-	-	0.08	0.534	0.734
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 5	DSI 0	656000	3840	11.66	12.90	1.330	-	-	0.01	0.024	0.032
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 5	DSI 0	656000	3840	11.52	12.90	1.374	-	-	0.02	0.020	0.027
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	656000	3840	11.66	12.90	1.330	-	-	0.01	0.263	0.350
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	656000	3840	11.52	12.90	1.374	-	-	0.02	0.223	0.306
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 2	656000	3840	9.38	10.30	1.236	-	-	0.01	0.540	0.667
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	633334	3500.01	12.38	12.90	1.127	-	-	0.06	0.806	0.909
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	633334	3500.01	12.20	12.90	1.175	-	-	0.01	0.784	0.921
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	633334	3500.01	12.22	12.90	1.169	-	-	0.08	0.765	0.895
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 5	DSI 0	633334	3500.01	12.38	12.90	1.127	-	-	0.03	0.004	0.005
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 5	DSI 0	633334	3500.01	12.20	12.90	1.175	-	-	0.01	0.005	0.006
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	12.38	12.90	1.127	-	-	-0.04	1.100	1.240
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	12.20	12.90	1.175	-	-	0.03	1.040	1.222
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	12.22	12.90	1.169	-	-	0.02	1.000	1.169
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 2	633334	3500.01	9.35	10.30	1.245	-	-	-0.04	0.544	0.677

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN/BT																
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Reduced	6	2437	17.30	18.50	1.318	99.2	1.008	-0.02	0.971	1.290
	WLAN2.4GHz	802.11g 6Mbps	Bottom Face	0mm	Ant 6	Reduced	6	2437	17.70	18.50	1.202	95.4	1.048	0.01	0.891	1.123
	WLAN2.4GHz	802.11g 6Mbps	Bottom Face	0mm	Ant 6	Reduced	8	2447	17.40	18.50	1.288	95.4	1.048	0.01	0.740	0.999
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Reduced	1	2412	17.10	18.50	1.380	99.2	1.008	0.03	0.797	1.109
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Reduced	11	2462	17.00	18.50	1.413	99.2	1.008	0.09	0.780	1.111
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	0mm	Ant 6	Reduced	6	2437	17.30	18.50	1.318	99.2	1.008	0.02	0.406	0.539
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Reduced Simultaneous	6	2437	14.50	16.00	1.413	99.2	1.008	0.01	0.431	0.614
	WLAN2.4GHz	802.11b 1Mbps	Edge 3	0mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.02	0.455	0.663
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	16mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.04	0.252	0.367
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	12mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.03	0.194	0.283
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	17mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.01	0.161	0.235
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	18mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.03	0.101	0.147
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	19mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.01	0.045	0.066
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	20mm	Ant 6	Full power	6	2437	19.90	21.50	1.445	99.2	1.008	0.01	0.078	0.114
21	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Reduced	6	2437	18.90	20.00	1.288	99.2	1.008	-0.05	1.060	1.376
	WLAN2.4GHz	802.11g 6Mbps	Bottom Face	0mm	Ant 7	Reduced	8	2447	19.00	20.00	1.259	95.4	1.048	0.01	0.871	1.149
	WLAN2.4GHz	802.11g 6Mbps	Bottom Face	0mm	Ant 7	Reduced	6	2437	18.50	20.00	1.413	95.4	1.048	0.03	0.750	1.110
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Reduced	1	2412	18.80	20.00	1.318	99.2	1.008	0.01	0.854	1.135
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Reduced	11	2462	18.90	20.00	1.288	99.2	1.008	0.03	0.920	1.195
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 7	Reduced	6	2437	18.90	20.00	1.288	99.2	1.008	0.08	0.304	0.395
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Reduced Simultaneous	6	2437	15.70	17.00	1.349	99.2	1.008	0.01	0.498	0.677
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	0mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.06	0.205	0.292
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	16mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.01	0.226	0.322
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	9mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.04	0.185	0.263
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	17mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.02	0.174	0.248
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	2mm	Ant 7	Reduced	6	2437	15.70	17.00	1.349	99.2	1.008	0.01	0.235	0.320
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	12mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.02	0.145	0.206



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	WLAN2.4GHz	802.11b 1Mbps	Edge 4	18mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.01	0.104	0.148
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	19mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.03	0.099	0.141
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	20mm	Ant 7	Full power	6	2437	21.00	22.50	1.413	99.2	1.008	0.12	0.086	0.123
22	Bluetooth	BLE 1Mbps	Bottom Face	0mm	Ant 6	Full power	19	2440	6.00	7.00	1.259	60.58	1.375	-0.06	0.006	0.010
	Bluetooth	BLE 1Mbps	Edge 4	0mm	Ant 6	Full power	19	2440	6.00	7.00	1.259	60.58	1.375	0.02	0.003	0.005
	Bluetooth	BLE 1Mbps	Edge 2	0mm	Ant 6	Full power	19	2440	6.00	7.00	1.259	60.58	1.375	0.08	0.002	0.003
	Bluetooth	BLE 1Mbps	Edge 1	0mm	Ant 6	Full power	19	2440	6.00	7.00	1.259	60.58	1.375	0.01	0.002	0.003
	Bluetooth	BLE 1Mbps	Edge 3	0mm	Ant 6	Full power	19	2440	6.00	7.00	1.259	60.58	1.375	0.03	0.002	0.003
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced	58	5290	12.90	13.50	1.148	93.2	1.073	0.02	0.760	0.936
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Reduced	58	5290	12.90	13.50	1.148	93.2	1.073	-0.04	1.030	1.269
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 6	Reduced	54	5270	12.80	13.50	1.175	87	1.149	0.01	0.729	0.984
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 6	Reduced	62	5310	12.50	13.50	1.259	87	1.149	0.06	0.670	0.969
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Reduced Simultaneous	58	5290	10.00	11.00	1.259	93.2	1.073	0.01	0.495	0.669
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 3	0mm	Ant 6	Full power	54	5270	19.70	21.50	1.514	87	1.149	0.04	0.557	0.969
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 3	0mm	Ant 6	Full power	62	5310	17.40	19.00	1.445	87	1.149	0.09	0.300	0.498
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 6	Reduced Simultaneous	58	5290	15.80	17.50	1.479	93.2	1.073	0.06	0.351	0.557
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	16mm	Ant 6	Full power	54	5270	19.70	21.50	1.514	87	1.149	0.03	0.242	0.421
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	12mm	Ant 6	Full power	54	5270	19.70	21.50	1.514	87	1.149	0.02	0.642	1.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 4	12mm	Ant 6	Reduced Simultaneous	58	5290	15.80	17.50	1.479	93.2	1.073	0.01	0.353	0.560
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	17mm	Ant 6	Reduced	58	5290	15.80	17.50	1.479	93.2	1.073	0.01	0.157	0.249
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 4	18mm	Ant 6	Reduced	58	5290	15.80	17.50	1.479	93.2	1.073	0.02	0.255	0.405
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 4	19mm	Ant 6	Reduced	58	5290	15.80	17.50	1.479	93.2	1.073	0.01	0.239	0.379
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 4	20mm	Ant 6	Reduced	58	5290	15.80	17.50	1.479	93.2	1.073	0.02	0.189	0.300
23	WLAN5.3GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Reduced	58	5290	16.50	17.00	1.122	93.2	1.073	-0.05	1.080	1.300
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced	58	5290	16.50	17.00	1.122	93.2	1.073	0.02	0.518	0.624
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7	Reduced	54	5270	16.70	17.00	1.072	87	1.149	0.01	0.852	1.049
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7	Reduced	62	5310	16.60	17.00	1.096	87	1.149	0.06	0.820	1.033
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Reduced Simultaneous	58	5290	13.80	15.00	1.318	93.2	1.073	-0.03	0.461	0.652
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 7	Full power	54	5270	20.20	21.50	1.349	87	1.149	0.08	0.275	0.426
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	16mm	Ant 7	Full power	54	5270	20.20	21.50	1.349	87	1.149	-0.03	0.257	0.398
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 1	9mm	Ant 7	Full power	54	5270	20.20	21.50	1.349	87	1.149	0.03	0.675	1.046
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 1	9mm	Ant 7	Full power	62	5310	17.90	19.50	1.445	87	1.149	0.03	0.511	0.849
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 1	9mm	Ant 7	Reduced	58	5290	17.30	18.50	1.318	87	1.149	0.03	0.445	0.674
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	17mm	Ant 7	Reduced	58	5290	17.30	18.50	1.318	87	1.149	0.01	0.139	0.211
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 1	2mm	Ant 7	Reduced	58	5290	13.80	15.00	1.318	93.2	1.073	0.02	0.276	0.390
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	12mm	Ant 7	Reduced	58	5290	17.30	18.50	1.318	87	1.149	-0.03	0.104	0.158
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	18mm	Ant 7	Reduced	58	5290	17.30	18.50	1.318	87	1.149	0.08	0.080	0.121
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	19mm	Ant 7	Reduced	58	5290	17.30	18.50	1.318	87	1.149	0.02	0.077	0.117
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	20mm	Ant 7	Reduced	58	5290	17.30	18.50	1.318	87	1.149	0.01	0.063	0.095
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced	122	5610	14.00	15.00	1.259	93.2	1.073	0.04	0.869	1.174
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced	138	5690	13.72	15.00	1.343	93.2	1.073	0.03	0.712	1.026
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Reduced	122	5610	14.00	15.00	1.259	93.2	1.073	-0.03	0.997	1.347
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Reduced	138	5690	13.72	15.00	1.343	93.2	1.073	0.03	0.901	1.298
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 6	Reduced	142	5710	14.40	15.00	1.148	87	1.149	0.01	0.866	1.142
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 6	Reduced	110	5550	14.30	15.00	1.175	87	1.149	0.06	0.840	1.134
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Reduced Simultaneous	122	5610	10.90	12.50	1.445	93.2	1.073	-0.03	0.401	0.622
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 6	Full power	122	5610	19.60	21.50	1.549	93.2	1.073	-0.13	0.651	1.082
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 6	Full power	138	5690	19.30	21.00	1.479	93.2	1.073	-0.13	0.621	0.986
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 6	Full power	122	5610	16.70	18.00	1.349	93.2	1.073	0.03	0.302	0.437
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	16mm	Ant 6	Full power	122	5610	19.60	21.50	1.549	93.2	1.073	-0.06	0.284	0.472
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	12mm	Ant 6	Full power	122	5610	19.60	21.50	1.549	93.2	1.073	-0.08	0.799	1.328
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	12mm	Ant 6	Reduced	122	5610	16.70	18.00	1.349	93.2	1.073	0.02	0.435	0.630
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	17mm	Ant 6	Reduced	122	5610	16.70	18.00	1.349	93.2	1.073	0.01	0.151	0.219
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	18mm	Ant 6	Reduced	122	5610	16.70	18.00	1.349	93.2	1.073	0.02	0.223	0.323
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	19mm	Ant 6	Reduced	122	5610	16.70	18.00	1.349	93.2	1.073	0.1	0.190	0.275
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	20mm	Ant 6	Reduced	122	5610	16.70	18.00	1.349	93.2	1.073	0.03	0.167	0.242



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	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Reduced	138	5690	12.60	13.50	1.230	93.2	1.073	0.03	0.493	0.651
24	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced	138	5690	12.60	13.50	1.230	93.2	1.073	-0.09	1.040	1.373
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced	122	5610	12.50	13.50	1.259	93.2	1.073	0.17	0.994	1.343
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Reduced	110	5550	12.90	13.50	1.148	87	1.149	0.02	0.879	1.160
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Reduced	102	5510	12.90	13.50	1.148	87	1.149	0.06	0.865	1.141
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced Simultaneous	138	5690	9.70	11.00	1.349	93.2	1.073	-0.09	0.405	0.586
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 7	Full power	138	5690	20.30	21.50	1.318	93.2	1.073	0.04	0.287	0.406
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	16mm	Ant 7	Full power	138	5690	20.30	21.50	1.318	93.2	1.073	0.14	0.229	0.324
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	9mm	Ant 7	Full power	138	5690	20.30	21.50	1.318	93.2	1.073	0.01	0.601	0.850
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	9mm	Ant 7	Reduced	138	5690	17.20	18.50	1.349	93.2	1.073	0.02	0.398	0.576
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	17mm	Ant 7	Reduced	138	5690	17.20	18.50	1.349	93.2	1.073	0.01	0.178	0.258
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	2mm	Ant 7	Reduced	138	5690	9.70	11.00	1.349	93.2	1.073	0.03	0.268	0.388
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	12mm	Ant 7	Reduced	138	5690	17.20	18.50	1.349	93.2	1.073	0.02	0.154	0.223
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	18mm	Ant 7	Reduced	138	5690	17.20	18.50	1.349	93.2	1.073	0.03	0.124	0.179
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	19mm	Ant 7	Reduced	138	5690	17.20	18.50	1.349	93.2	1.073	0.01	0.119	0.172
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	20mm	Ant 7	Reduced	138	5690	17.20	18.50	1.349	93.2	1.073	0.1	0.096	0.139
25	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced	155	5775	14.80	15.50	1.175	93.5	1.070	0.02	1.060	1.333
	WLAN5.8GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 6	Reduced	151	5755	15.00	15.50	1.122	87	1.149	0.01	0.904	1.165
	WLAN5.8GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 6	Reduced	159	5795	15.00	15.50	1.122	87	1.149	0.03	0.896	1.155
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Reduced	155	5775	14.80	15.50	1.175	93.5	1.070	0.07	0.949	1.193
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced Simultaneous	155	5775	12.00	13.50	1.413	93.5	1.070	0.02	0.441	0.667
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 6	Full power	155	5775	19.30	20.50	1.318	93.5	1.070	0.15	0.873	1.231
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 6	Reduced Simultaneous	155	5775	17.70	18.50	1.202	93.5	1.070	0.06	0.611	0.786
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	16mm	Ant 6	Full power	155	5775	19.30	20.50	1.318	93.5	1.070	0.18	0.274	0.386
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	12mm	Ant 6	Full power	155	5775	19.30	20.50	1.318	93.5	1.070	0.08	0.822	1.159
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	12mm	Ant 6	Reduced Simultaneous	155	5775	17.70	18.50	1.202	93.5	1.070	0.01	0.544	0.700
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	17mm	Ant 6	Reduced	155	5775	17.70	18.50	1.202	93.5	1.070	0.01	0.202	0.260
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	18mm	Ant 6	Reduced	155	5775	17.70	18.50	1.202	93.5	1.070	0.15	0.311	0.400
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	19mm	Ant 6	Reduced	155	5775	17.70	18.50	1.202	93.5	1.070	0.18	0.278	0.358
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	20mm	Ant 6	Reduced	155	5775	17.70	18.50	1.202	93.5	1.070	0.01	0.235	0.302
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Reduced	155	5775	12.90	13.50	1.148	93.5	1.070	0.02	0.472	0.580
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced	155	5775	12.90	13.50	1.148	93.5	1.070	-0.08	1.030	1.265
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Reduced	159	5795	13.10	13.50	1.096	87	1.149	0.01	0.814	1.026
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Reduced	151	5755	13.00	13.50	1.122	87	1.149	0.03	0.795	1.025
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced Simultaneous	155	5775	10.00	11.00	1.259	93.5	1.070	0.01	0.487	0.656
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	-0.05	0.365	0.606
	WLAN5.8GHz	802.11n-HT40 MCS0	Bottom Face	16mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	0.06	0.175	0.291
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 1	9mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	0.05	0.397	0.659
	WLAN5.8GHz	802.11n-HT40 MCS0	Bottom Face	17mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	0.01	0.154	0.256
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 1	2mm	Ant 7	Reduced	155	5775	10.00	11.00	1.259	93.5	1.070	0.01	0.286	0.385
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 4	12mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	-0.05	0.197	0.327
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 4	18mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	0.06	0.185	0.307
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 4	19mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	0.01	0.146	0.242
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 4	20mm	Ant 7	Full power	159	5795	20.40	22.00	1.445	87	1.149	0.02	0.133	0.221

16.2 Repeated SAR Measurement

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 17	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	23790	710	20.54	21.80	1.337	-	-	0.01	0.929	1	1.242
2nd	LTE Band 17	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	23790	710	20.54	21.80	1.337	-	-	0.09	0.920	1.010	1.230
1st	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	20850	2510	16.27	16.90	1.156	-	-	0.09	1.080	1	1.249
2nd	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	20850	2510	16.27	16.90	1.156	-	-	0.08	1.060	1.019	1.225
1st	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	12.38	12.90	1.127	-	-	-0.04	1.100	1	1.240
2nd	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	12.38	12.90	1.127	-	-	0.05	1.080	1.019	1.217
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	4182	836.4	21.69	22.30	1.151	-	-	0.01	1.090	1	1.254
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Face	0mm	Ant 0	DSI 1	4182	836.4	21.69	22.30	1.151	-	-	0.06	1.070	1.019	1.231
1st	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	512	1850.2	24.45	25.10	1.161	-	-	-0.01	1.080	1	1.254
2nd	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Face	0mm	Ant 0	DSI 1	512	1850.2	24.45	25.10	1.161	-	-	0.03	1.060	1.019	1.231
1st	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.79	19.50	1.178	-	-	-0.08	1.050	1	1.236
2nd	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.79	19.50	1.178	-	-	0.02	1.030	1.019	1.213
1st	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	12.76	13.50	1.186	-	-	-0.06	1.060	1	1.257
2nd	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	12.76	13.50	1.186	-	-	0.02	1.030	1.029	1.221
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Reduced	6	2437	18.90	20.00	1.288	99.2	1.008	-0.05	1.060	1	1.376
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Reduced	6	2437	18.90	20.00	1.288	99.2	1.008	0.02	1.040	1.029	1.350
1st	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Reduced	58	5290	16.50	17.00	1.122	93.2	1.073	-0.05	1.080	1	1.300
2nd	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Reduced	58	5290	16.50	17.00	1.122	93.2	1.073	0.03	1.060	1.019	1.276
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced	138	5690	12.60	13.50	1.230	93.2	1.073	-0.09	1.040	1	1.373
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Reduced	138	5690	12.60	13.50	1.230	93.2	1.073	0.02	1.020	1.020	1.346
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced	155	5775	14.80	15.50	1.175	93.5	1.070	0.02	1.060	1	1.333
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Reduced	155	5775	14.80	15.50	1.175	93.5	1.070	0.03	1.040	1.019	1.307

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

17. Simultaneous Transmission Analysis

No.	Transmission Configurations	Body
1.	WWAN + 2.4GHz WLAN	Yes
2.	WWAN + 5GHz WLAN	Yes
3.	WWAN + Bluetooth	Yes
4.	WWAN + NFC	Yes
5.	2.4GHz WLAN + NFC	Yes
6.	Bluetooth + 5GHz WLAN + NFC	Yes
7.	WWAN + Bluetooth + 5GHz WLAN	Yes
8.	WWAN + 2.4GHz WLAN + NFC	Yes
9.	WWAN + Bluetooth + 5GHz WLAN + NFC	Yes

General Note:

1. WWAN above includes 5G NR bands.
2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
5. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
6. According to the EUT character, WLAN 5GHz and Bluetooth can transmit simultaneously.
7. According to the EUT character, WLAN 2.4GHz/5GHz/Bluetooth and NFC can transmit simultaneously.
8. The reported SAR summation is calculated based on the same configuration and test position.
9. For distance SAR co-located analysis, WWAN antenna always chose the worst SAR among each frequency range (750MHz/835MHz/1750MHz/1900MHz/ 2600MHz/3500MHz~3900MHz) within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
10. For example, ant 0, divided several frequency range: 750MHz/835MHz/1750MHz/1900MHz/2600MHz/3500MHz/3900MHz. 1900MHz SAR we chose the worst SAR value base on SAR testing position among GSM1900 / WCDMA B2 / LTE B2 /5GNR n2.WWAN two antenna standalone SAR summed together and co-located with WLAN+BT is more conservatively than standalone SAR per WWAN antenna co-located with WLAN/BT.
11. All licensed modes share the same antenna part and cannot transmit simultaneously.
12. Per KDB 447498 D01v06, transmission SAR is compliant if,
 - i) Scalar SAR summation $< 1.6W/kg$.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR $< 1.6W/kg$.
 - v) The SPLSR calculated results please refer to section 17.3.

17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1



17.2 Body Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7	Case No
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 6 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN5GHz Ant 6 1g SAR (W/kg)	WLAN5GHz Ant 7 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	NFC Ant 9 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
GSM850 Ant 0	Bottom Face	0.644	0.614	0.677	0.667	0.652	0.010	0.038	1.97	2.01	1/2
	Edge 1	0.590		0.395		0.656	0.003	0.006	0.99	1.26	
	Edge 2	0.070					0.003	0.001	0.07	0.07	
	Edge 3	0.053	0.663		0.786		0.003		0.72	0.84	
	Edge 4	0.651	0.539	0.292	0.669	0.606	0.005		1.48	1.93	3
GSM1900 Ant 0	Bottom Face	0.671	0.614	0.677	0.667	0.652	0.010	0.038	2.00	2.04	4/5
	Edge 1	0.497		0.395		0.656	0.003	0.006	0.90	1.16	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.842	0.539	0.292	0.669	0.606	0.005		1.67	2.12	6/7
WCDMA II Ant 0	Bottom Face	0.588	0.614	0.677	0.667	0.652	0.010	0.038	1.92	1.96	8/9
	Edge 1	0.599		0.395		0.656	0.003	0.006	1.00	1.26	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.994	0.539	0.292	0.669	0.606	0.005		1.83	2.27	10/11
WCDMA IV Ant 0	Bottom Face	0.604	0.614	0.677	0.667	0.652	0.010	0.038	1.93	1.97	12/13
	Edge 1	0.717		0.395		0.656	0.003	0.006	1.12	1.38	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.590	0.539	0.292	0.669	0.606	0.005		1.42	1.87	14
WCDMA V Ant 0	Bottom Face	0.610	0.614	0.677	0.667	0.652	0.010	0.038	1.94	1.98	15/16
	Edge 1	0.570		0.395		0.656	0.003	0.006	0.97	1.24	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.616	0.539	0.292	0.669	0.606	0.005		1.45	1.90	17
LTE Band 2 Ant 0	Bottom Face	0.669	0.614	0.677	0.667	0.652	0.010	0.038	2.00	2.04	18/19
	Edge 1	0.602		0.395		0.656	0.003	0.006	1.00	1.27	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.900	0.539	0.292	0.669	0.606	0.005		1.73	2.18	20/21
LTE Band 2 Ant 2	Bottom Face	1.189	0.614	0.677	0.667	0.652	0.010	0.038	2.52	2.56	22/23
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.077	0.663		0.786		0.003		0.74	0.87	
	Edge 4	1.233	0.539	0.292	0.669	0.606	0.005		2.06	2.51	24/25
LTE Band 5 Ant 0	Bottom Face	0.584	0.614	0.677	0.667	0.652	0.010	0.038	1.91	1.95	26/27
	Edge 1	0.552		0.395		0.656	0.003	0.006	0.95	1.22	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.578	0.539	0.292	0.669	0.606	0.005		1.41	1.86	28
LTE Band 7 Ant 0	Bottom Face	0.464	0.614	0.677	0.667	0.652	0.010	0.038	1.79	1.83	29/30
	Edge 1	0.128		0.395		0.656	0.003	0.006	0.53	0.79	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.686	0.539	0.292	0.669	0.606	0.005		1.52	1.97	31
LTE Band 7 Ant 2	Bottom Face	1.249	0.614	0.677	0.667	0.652	0.010	0.038	2.58	2.62	32/33
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.356	0.663		0.786		0.003		1.02	1.15	
	Edge 4	0.776	0.539	0.292	0.669	0.606	0.005		1.61	2.06	34/35



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LTE Band 17 Ant 0	Bottom Face	0.623	0.614	0.677	0.667	0.652	0.010	0.038	1.95	1.99	36/37
	Edge 1	0.309		0.395		0.656	0.003	0.006	0.71	0.97	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.805	0.539	0.292	0.669	0.606	0.005		1.64	2.09	38/39
LTE Band 38 Ant 0	Bottom Face	0.527	0.614	0.677	0.667	0.652	0.010	0.038	1.86	1.89	40/41
	Edge 1	0.131		0.395		0.656	0.003	0.006	0.53	0.80	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.787		0.003		0.66	0.79	
	Edge 4	0.659	0.539	0.292	0.669	0.606	0.005		1.49	1.94	42
LTE Band 41 Ant 2	Bottom Face	1.233	0.614	0.677	0.667	0.652	0.010	0.038	2.56	2.60	43/44
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.080	0.663		0.786		0.003		0.74	0.87	
	Edge 4	0.670	0.539	0.292	0.669	0.606	0.005		1.50	1.95	45
LTE Band 42 Ant 3	Bottom Face	0.569	0.614	0.677	0.667	0.652	0.010	0.038	1.90	1.94	46/47
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	1.245	0.539	0.292	0.669	0.606	0.005		2.08	2.53	48/49
LTE Band 66 Ant 0	Bottom Face	0.656	0.614	0.677	0.667	0.652	0.010	0.038	1.99	2.02	50/51
	Edge 1	0.658		0.395		0.656	0.003	0.006	1.06	1.32	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.479	0.539	0.292	0.669	0.606	0.005		1.31	1.76	52
LTE Band 5 Ant 2	Bottom Face	1.257	0.614	0.677	0.667	0.652	0.010	0.038	2.59	2.62	53/54
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.176	0.663		0.786		0.003		0.84	0.97	
	Edge 4	1.014	0.539	0.292	0.669	0.606	0.005		1.85	2.29	55/56



5G NR

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7	Case No
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 6 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN5GHz Ant 6 1g SAR (W/kg)	WLAN5GHz Ant 7 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	NFC Ant 9 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
FR1 n2 Ant 0	Bottom Face	0.674	0.614	0.677	0.667	0.652	0.010	0.038	2.00	2.04	1/2
	Edge 1	0.596		0.395		0.656	0.003	0.006	1.00	1.26	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.892	0.539	0.292	0.669	0.606	0.005		1.72	2.17	3/4
FR1 n5 Ant 0	Bottom Face	0.651	0.614	0.677	0.667	0.652	0.010	0.038	1.98	2.02	5/6
	Edge 1	0.569		0.395		0.656	0.003	0.006	0.97	1.23	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.658	0.539	0.292	0.669	0.606	0.005		1.49	1.94	7
FR1 n7 Ant 0	Bottom Face	0.561	0.614	0.677	0.667	0.652	0.010	0.038	1.89	1.93	8/9
	Edge 1	0.164		0.395		0.656	0.003	0.006	0.57	0.83	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.681	0.539	0.292	0.669	0.606	0.005		1.51	1.96	10
FR1 n7 Ant 2	Bottom Face	1.256	0.614	0.677	0.667	0.652	0.010	0.038	2.59	2.62	11/12
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.281	0.663		0.786		0.003		0.94	1.07	
	Edge 4	0.866	0.539	0.292	0.669	0.606	0.005		1.70	2.15	13/14
FR1 n38 Ant 0	Bottom Face	0.510	0.614	0.677	0.667	0.652	0.010	0.038	1.84	1.88	15/16
	Edge 1	0.150		0.395		0.656	0.003	0.006	0.55	0.82	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.646	0.539	0.292	0.669	0.606	0.005		1.48	1.93	17
FR1 n41 HPUE Ant 2	Bottom Face	1.244	0.614	0.677	0.667	0.652	0.010	0.038	2.57	2.61	18/19
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.085	0.663		0.786		0.003		0.75	0.87	
	Edge 4	0.875	0.539	0.292	0.669	0.606	0.005		1.71	2.16	20/21
FR1 n41 Ant 1	Bottom Face	1.092	0.614	0.677	0.667	0.652	0.010	0.038	2.42	2.46	22/23
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2	1.237					0.003	0.001	1.24	1.24	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4		0.539	0.292	0.669	0.606	0.005		0.83	1.28	
FR1 n41 Ant 4	Bottom Face	1.254	0.614	0.677	0.667	0.652	0.010	0.038	2.58	2.62	24/25
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2	0.025					0.003	0.001	0.03	0.03	
	Edge 3	0.655	0.663		0.786		0.003		1.32	1.44	
	Edge 4		0.539	0.292	0.669	0.606	0.005		0.83	1.28	
FR1 n41 Ant 5	Bottom Face	0.683	0.614	0.677	0.667	0.652	0.010	0.038	2.01	2.05	28/29
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.156	0.663		0.786		0.003		0.82	0.95	
	Edge 4	0.015	0.539	0.292	0.669	0.606	0.005		0.85	1.30	
FR1 n66 Ant 0	Bottom Face	0.651	0.614	0.677	0.667	0.652	0.010	0.038	1.98	2.02	30/31
	Edge 1	0.698		0.395		0.656	0.003	0.006	1.10	1.36	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	0.549	0.539	0.292	0.669	0.606	0.005		1.38	1.83	32
FR1 n77	Bottom Face	0.776	0.614	0.677	0.667	0.652	0.010	0.038	2.11	2.14	33/34



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Part27O Ant 3	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4	1.247	0.539	0.292	0.669	0.606	0.005		2.08	2.53	35/36
FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0.614	0.677	0.667	0.652	0.010	0.038	1.97	2.01	37/38
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
FR1 n77 Part27O Ant 1	Edge 4	0.908	0.539	0.292	0.669	0.606	0.005		1.74	2.19	39/40
	Bottom Face	0.930	0.614	0.677	0.667	0.652	0.010	0.038	2.26	2.30	41/42
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2	1.257					0.003	0.001	1.26	1.26	
FR1 n77 Part27Q Ant 1	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4		0.539	0.292	0.669	0.606	0.005		0.83	1.28	
	Bottom Face	0.752	0.614	0.677	0.667	0.652	0.010	0.038	2.08	2.12	43/44
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
FR1 n77 Part27O Ant 4	Edge 2	1.103					0.003	0.001	1.10	1.11	
	Edge 3		0.663		0.786		0.003		0.66	0.79	
	Edge 4		0.539	0.292	0.669	0.606	0.005		0.83	1.28	
	Bottom Face	1.241	0.614	0.677	0.667	0.652	0.010	0.038	2.57	2.61	45/46
FR1 n77 Part27Q Ant 4	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2	0.072					0.003	0.001	0.07	0.08	
	Edge 3	0.793	0.663		0.786		0.003		1.46	1.58	
	Edge 4		0.539	0.292	0.669	0.606	0.005		0.83	1.28	
FR1 n77 Part27Q Ant 4	Bottom Face	0.870	0.614	0.677	0.667	0.652	0.010	0.038	2.20	2.24	49/50
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2	0.018					0.003	0.001	0.02	0.02	
	Edge 3	0.723	0.663		0.786		0.003		1.39	1.51	
FR1 n77 Part27O Ant 5	Edge 4		0.539	0.292	0.669	0.606	0.005		0.83	1.28	
	Bottom Face	0.667	0.614	0.677	0.667	0.652	0.010	0.038	2.00	2.03	53/54
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
	Edge 2						0.003	0.001	0.00	0.00	
FR1 n77 Part27Q Ant 5	Edge 3	0.350	0.663		0.786		0.003		1.01	1.14	
	Edge 4	0.032	0.539	0.292	0.669	0.606	0.005		0.86	1.31	
	Bottom Face	0.921	0.614	0.677	0.667	0.652	0.010	0.038	2.25	2.29	55/56
	Edge 1			0.395		0.656	0.003	0.006	0.40	0.67	
FR1 n77 Part27Q Ant 5	Edge 2						0.003	0.001	0.00	0.00	
	Edge 3	0.677	0.663		0.786		0.003		1.34	1.47	
	Edge 4	0.006	0.539	0.292	0.669	0.606	0.005		0.84	1.29	



Sensor Off

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		WWAN	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
750MHz Ant 0	Bottom Face at 17mm	0.515	0.235	0.248	0.260	0.258	0.010	0.038	1.04	1.08
	Edge 1 at 2mm	0.626		0.320		0.390	0.003	0.038	0.98	1.06
	Edge 4 at 19mm	0.217	0.066	0.141	0.379	0.242	0.005	0.038	0.46	0.88
835MHz Ant 0	Bottom Face at 17mm	0.589	0.235	0.248	0.260	0.258	0.010	0.038	1.11	1.16
	Edge 1 at 2mm	0.670		0.320		0.390	0.003	0.038	1.03	1.10
	Edge 4 at 19mm	0.197	0.066	0.141	0.379	0.242	0.005	0.038	0.44	0.86
1750MHz Ant 0	Bottom Face at 17mm	0.775	0.235	0.248	0.260	0.258	0.010	0.038	1.30	1.34
	Edge 1 at 2mm	0.662		0.320		0.390	0.003	0.038	1.02	1.09
	Edge 4 at 19mm	0.153	0.066	0.141	0.379	0.242	0.005	0.038	0.40	0.82
1900Mhz Ant 0	Bottom Face at 17mm	0.665	0.235	0.248	0.260	0.258	0.010	0.038	1.19	1.23
	Edge 1 at 2mm	0.679		0.320		0.390	0.003	0.038	1.04	1.11
	Edge 4 at 19mm	0.417	0.066	0.141	0.379	0.242	0.005	0.038	0.66	1.08
1900Mhz Ant 2	Bottom Face at 16mm	0.646	0.367	0.322	0.472	0.398	0.010	0.038	1.37	1.56
	Edge 4 at 18mm	0.672	0.147	0.148	0.405	0.307	0.005	0.038	1.01	1.43
2600MHz Ant 0	Bottom Face at 17mm	0.614	0.235	0.248	0.260	0.258	0.010	0.038	1.14	1.18
	Edge 1 at 2mm	0.677		0.320		0.390	0.003	0.038	1.04	1.11
	Edge 4 at 19mm	0.893	0.066	0.141	0.379	0.242	0.005	0.038	1.14	1.56
2600MHz Ant 2	Bottom Face at 16mm	0.666	0.367	0.322	0.472	0.398	0.010	0.038	1.39	1.58
	Edge 4 at 18mm	0.834	0.147	0.148	0.405	0.307	0.005	0.038	1.17	1.59
3500MHz-3800MHz Ant 3	Bottom Face at 17mm	1.017	0.235	0.248	0.260	0.258	0.010	0.038	1.54	1.58
	Edge 4 at 20mm	1.017	0.114	0.123	0.302	0.221	0.005	0.038	1.29	1.58
835MHz Ant 2	Bottom Face at 16mm	0.401	0.367	0.322	0.472	0.398	0.010	0.038	1.13	1.32
	Edge 4 at 18mm	0.139	0.147	0.148	0.405	0.307	0.005	0.038	0.47	0.89



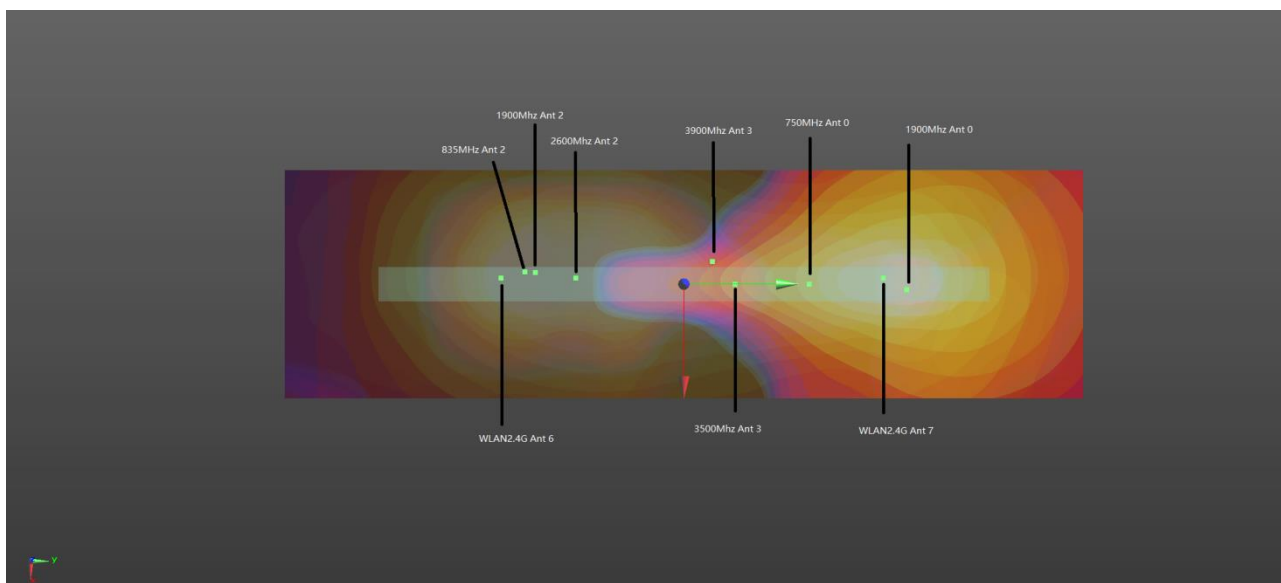
WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		WWAN	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
750MHz Ant 0	Bottom Face at 16mm	0.267	0.367	0.322	0.472	0.398	0.010	0.038	0.99	1.19
	Edge 4 at 12mm	0.226	0.283	0.206	0.700	0.327	0.005	0.038	0.75	1.30
835MHz Ant 0	Bottom Face at 16mm	0.292	0.367	0.322	0.472	0.398	0.010	0.038	1.02	1.21
	Edge 4 at 12mm	0.168	0.283	0.206	0.700	0.327	0.005	0.038	0.70	1.24
1750MHz Ant 0	Bottom Face at 16mm	0.383	0.367	0.322	0.472	0.398	0.010	0.038	1.11	1.30
	Edge 4 at 12mm	0.169	0.283	0.206	0.700	0.327	0.005	0.038	0.70	1.24
1900Mhz Ant 0	Bottom Face at 16mm	0.368	0.367	0.322	0.472	0.398	0.010	0.038	1.10	1.29
	Edge 4 at 12mm	0.220	0.283	0.206	0.700	0.327	0.005	0.038	0.75	1.29
1900Mhz Ant 2	Bottom Face at 16mm	0.646	0.367	0.322	0.472	0.398	0.010	0.038	1.37	1.56
	Edge 4 at 12mm	0.326	0.283	0.206	0.700	0.327	0.005	0.038	0.85	1.40
2600MHz Ant 0	Bottom Face at 16mm	0.181	0.367	0.322	0.472	0.398	0.010	0.038	0.91	1.10
	Edge 4 at 12mm	0.215	0.283	0.206	0.700	0.327	0.005	0.038	0.74	1.29
2600MHz Ant 2	Bottom Face at 16mm	0.666	0.367	0.322	0.472	0.398	0.010	0.038	1.39	1.58
	Edge 4 at 12mm	0.333	0.283	0.206	0.700	0.327	0.005	0.038	0.86	1.40
3500MHz-3800MHz Ant 3	Bottom Face at 16mm	0.306	0.367	0.322	0.472	0.398	0.010	0.038	1.03	1.22
	Edge 4 at 12mm	0.406	0.283	0.206	0.700	0.327	0.005	0.038	0.93	1.48
835MHz Ant 2	Bottom Face at 16mm	0.401	0.367	0.322	0.472	0.398	0.010	0.038	1.13	1.32
	Edge 4 at 12mm	0.150	0.283	0.206	0.700	0.327	0.005	0.038	0.68	1.22

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		WWAN	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
750MHz Ant 0	Bottom Face at 16mm	0.267	0.367	0.322	0.472	0.398	0.010	0.038	0.99	1.19
	Edge 1 at 9mm	0.256		0.263		0.674	0.003	0.038	0.56	0.97
835MHz Ant 0	Bottom Face at 16mm	0.292	0.367	0.322	0.472	0.398	0.010	0.038	1.02	1.21
	Edge 1 at 9mm	0.227		0.263		0.674	0.003	0.038	0.53	0.94
1750MHz Ant 0	Bottom Face at 16mm	0.383	0.367	0.322	0.472	0.398	0.010	0.038	1.11	1.30
	Edge 1 at 9mm	0.456		0.263		0.674	0.003	0.038	0.76	1.17
1900Mhz Ant 0	Bottom Face at 16mm	0.368	0.367	0.322	0.472	0.398	0.010	0.038	1.10	1.29
	Edge 1 at 9mm	0.449		0.263		0.674	0.003	0.038	0.75	1.16
1900Mhz Ant 2	Bottom Face at 16mm	0.646	0.367	0.322	0.472	0.398	0.010	0.038	1.37	1.56
	Edge 1 at 9mm			0.263		0.674	0.003	0.038	0.30	0.72
2600MHz Ant 0	Bottom Face at 16mm	0.181	0.367	0.322	0.472	0.398	0.010	0.038	0.91	1.10
	Edge 1 at 9mm	0.364		0.263		0.674	0.003	0.038	0.67	1.08
2600MHz Ant 2	Bottom Face at 16mm	0.666	0.367	0.322	0.472	0.398	0.010	0.038	1.39	1.58
	Edge 1 at 9mm			0.263		0.674	0.003	0.038	0.30	0.72
3500MHz-3800MHz Ant 3	Bottom Face at 16mm	0.306	0.367	0.322	0.472	0.398	0.010	0.038	1.03	1.22
	Edge 1 at 9mm			0.263		0.674	0.003	0.038	0.30	0.72
835MHz Ant 2	Bottom Face at 16mm	0.401	0.367	0.322	0.472	0.398	0.010	0.038	1.13	1.32
	Edge 1 at 9mm			0.263		0.674	0.003	0.038	0.30	0.72

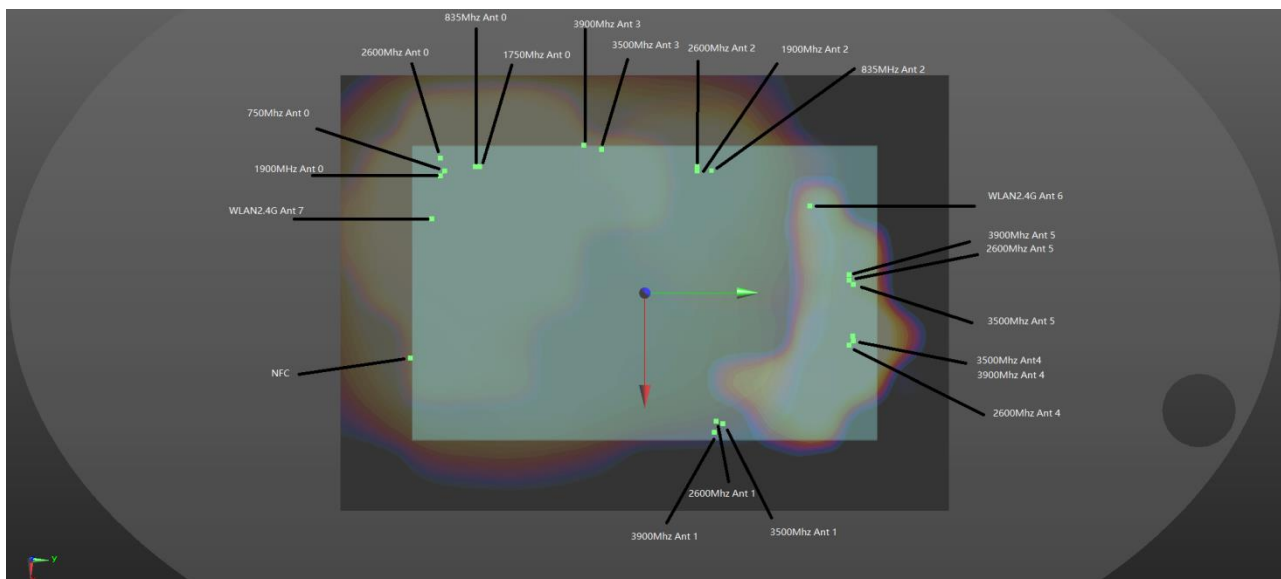
17.3 SPLSR Evaluation and Analysis

General Note:

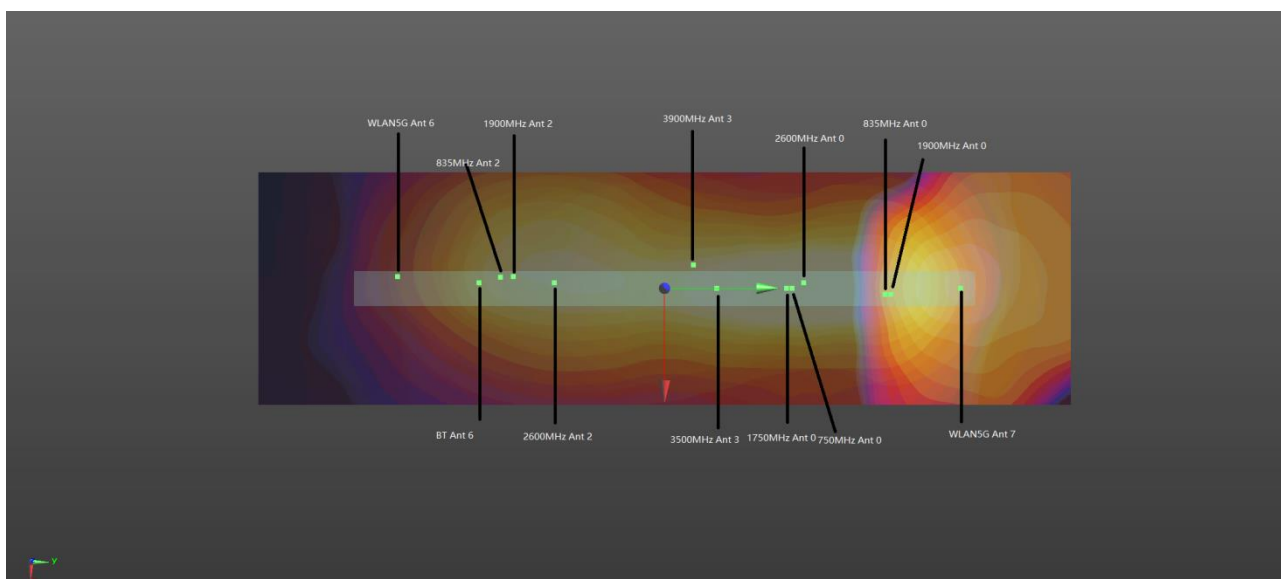
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.



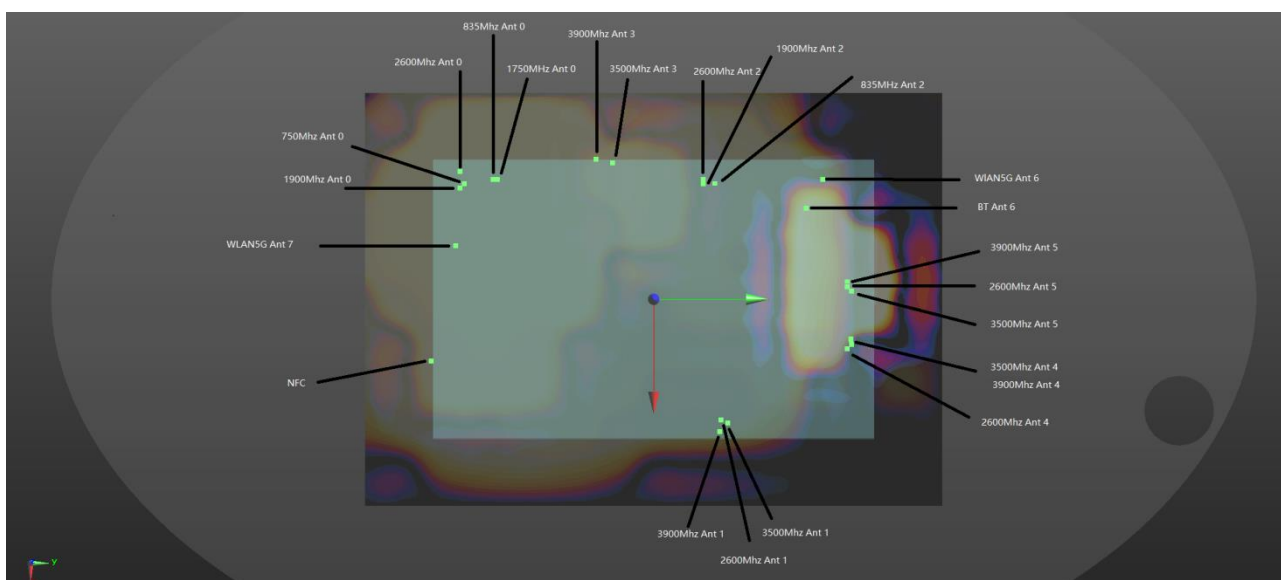
WWAN+WLAN2.4G Ant6+WLAN2.4G Ant7_Edge 4 0mm



WWAN+WLAN2.4G Ant6+WLAN2.4G Ant7+NFC_Bottom Face 0mm



WWAN+WLAN5G Ant6+WLAN5G Ant7+BT_Edge 4 0mm



WWAN+WLAN5G Ant6+WLAN5G Ant7+NFC+BT_Bottom Face 0mm



	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 1	GSM850 Ant 0	Bottom Face	0.644	0	-64.9	-78.8	0.36	173.1	1.26	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	GSM850 Ant 0	Bottom Face	0.644	0	-64.9	-78.8	0.36	44.0	1.32	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	GSM850 Ant 0	Bottom Face	0.644	0	-64.9	-78.8	0.36	71.5	0.68	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 2	GSM850 Ant 0	Bottom Face	0.644	0	-64.9	-78.8	0.36	155.9	1.32	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	GSM850 Ant 0	Bottom Face	0.644	0	-64.9	-78.8	0.36	43.8	1.30	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	GSM850 Ant 0	Bottom Face	0.614	0	-64.9	-78.8	0.36	71.5	0.65	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	2.32	49.4	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 3	GSM850 Ant 0	Edge 4	0.651	0	2	44	0.51	141.0	1.33	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	GSM850 Ant 0	Edge 4	0.651	0	2	44	0.51	62.0	1.26	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 4	GSM1900 Ant 0	Bottom Face	0.671	0	-58.7	-89.3	0.47	183.1	1.96	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	GSM1900 Ant 0	Bottom Face	0.671	0	-58.7	-89.3	0.47	52.7	0.71	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				



FCC SAR Test Report

Report No. : FA230412

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 5	GSM1900 Ant 0	Bottom Face	0.671	0	-58.7	-89.3	0.47	166.1	2.00	0.02	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	GSM1900 Ant 0	Bottom Face	0.614	0	-58.7	-89.3	0.47	49.4	1.30	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900 Ant 0	Edge 4	0.842	0	2	36	0.46	125.0	1.67	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900 Ant 0	Edge 4	0.842	0	2	36	0.46	133.0	1.52	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	GSM1900 Ant 0	Edge 4	0.842	0	2	36	0.46	70.0	1.45	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II Ant 0	Bottom Face	0.588	0	-60.3	-75.3	0.39	169.3	1.20	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	WCDMA II Ant 0	Bottom Face	0.588	0	-60.3	-75.3	0.39	42.9	1.27	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WCDMA II Ant 0	Bottom Face	0.588	0	-60.3	-75.3	0.39	66.4	0.63	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II Ant 0	Bottom Face	0.588	0	-60.3	-75.3	0.39	152.2	1.92	0.02	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WCDMA II Ant 0	Bottom Face	0.588	0	-60.3	-75.3	0.39	49.4	1.28	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				



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	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA II Ant 0	Edge 4	0.994	0	-2	36	0.41	125.1	1.83	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
Case 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA II Ant 0	Edge 4	0.994	0	-2	36	0.41	132.8	1.67	0.02	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	WCDMA II Ant 0	Edge 4	0.994	0	-2	36	0.41	70.1	1.60	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA IV Ant 0	Bottom Face	0.604	0	-60.3	-92.3	0.36	186.2	1.90	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	WCDMA IV Ant 0	Bottom Face	0.604	0	-60.3	-92.3	0.36	52.7	1.32	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 13	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA IV Ant 0	Bottom Face	0.604	0	-60.3	-92.3	0.36	169.2	1.93	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	WCDMA IV Ant 0	Bottom Face	0.604	0	-60.3	-92.3	0.36	49.4	1.29	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA IV Ant 0	Edge 4	0.59	0	2	76	0.46	173.0	1.87	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
Case 15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA V Ant 0	Bottom Face	0.61	0	-64.9	-71	0.11	165.3	1.22	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	WCDMA V Ant 0	Bottom Face	0.61	0	-64.9	-71	0.11	49.1	1.29	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				



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	WCDMA V Ant 0	Bottom Face	0.61	0	-64.9	-71	0.11	70.6	0.65	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA V Ant 0	Bottom Face	0.61	0	-64.9	-71	0.11	148.1	1.29	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WCDMA V Ant 0	Bottom Face	0.61	0	-64.9	-71	0.11	48.5	1.26	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WCDMA V Ant 0	Bottom Face	0.61	0	-64.9	-71	0.11	70.6	0.65	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	2.32	49.4	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 17	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA V Ant 0	Edge 4	0.616	0	2	64	0.36	161.0	1.29	0.01	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WCDMA V Ant 0	Edge 4	0.616	0	2	64	0.36	42.0	1.22	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	204.7	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 18	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 0	Bottom Face	0.669	0	-58.7	-89.3	0.07	183.1	1.96	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 2 Ant 0	Bottom Face	0.669	0	-58.7	-89.3	0.07	52.7	1.38	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 19	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 0	Bottom Face	0.669	0	-58.7	-89.3	0.07	166.1	2.00	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	LTE Band 2 Ant 0	Bottom Face	0.669	0	-58.7	-89.3	0.07	49.4	1.36	0.03	Not required



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	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	2.32	155.5	0.72	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 20	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 0	Edge 4	0.9	0	2	48	0.31	137.0	1.73	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
Case 21	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 0	Edge 4	0.9	0	2	48	0.31	146.7	1.57	0.01	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 2 Ant 0	Edge 4	0.9	0	2	48	0.31	58.0	1.51	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	LTE Band 2 Ant 0	Edge 4	0.9	0	2	48	0.31	64.0	0.91	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	204.7	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	182.7	0.67	0.00	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7	Edge 4	0.606	0	2	106	0.34	64.2	0.61	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
Case 22	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Bottom Face	1.189	0	-80	8	0.33	91.0	1.80	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 2 Ant 2	Bottom Face	1.189	0	-80	8	0.33	124.0	1.87	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 2 Ant 2	Bottom Face	1.189	0	-80	8	0.33	113.3	1.23	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 23	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Bottom Face	1.189	0	-80	8	0.33	73.1	1.87	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	LTE Band 2 Ant 2	Bottom Face	1.189	0	-80	8	0.33	122.0	1.84	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	LTE Band 2 Ant 2	Bottom Face	1.189	0	-80	8	0.33	113.3	1.23	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				



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	NFC Ant 9	Bottom Face	0.038	0	5.5	-66.3	-0.85	49.4	0.69	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 24	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Edge 4	1.233	0	-4.5	-21.5	0.04	67.8	1.77	0.03	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	LTE Band 2 Ant 2	Edge 4	1.233	0	-4.5	-21.5	0.04	91.5	1.53	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	30	0.31	40.2	0.83	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
Case 25	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Edge 4	1.233	0	-4.5	-21.5	0.04	75.3	1.91	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 2 Ant 2	Edge 4	1.233	0	-4.5	-21.5	0.04	127.7	1.84	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 26	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 0	Bottom Face	0.584	0	-64.9	-71	0.11	165.3	1.20	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 5 Ant 0	Bottom Face	0.584	0	-64.9	-71	0.11	49.1	1.26	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 5 Ant 0	Bottom Face	0.584	0	-64.9	-71	0.11	70.6	0.62	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 27	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 0	Bottom Face	0.584	0	-64.9	-71	0.11	148.1	1.26	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	LTE Band 5 Ant 0	Bottom Face	0.584	0	-64.9	-71	0.11	48.5	1.24	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	LTE Band 5 Ant 0	Bottom Face	0.584	0	-64.9	-71	0.11	70.6	0.62	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	2.32	49.4	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				



	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 28	LTE Band 5 Ant 0	Edge 4	0.578	0	2	44	0.33	141.0	1.25	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 5 Ant 0	Edge 4	0.578	0	2	44	0.33	62.0	1.18	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 29	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
					X	Y	Z				
	LTE Band 7 Ant 0	Bottom Face	0.464	0	-62	-94	0.12	188.0	1.76	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 7 Ant 0	Bottom Face	0.464	0	-62	-94	0.12	52.7	1.18	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 30	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
					X	Y	Z				
	LTE Band 7 Ant 0	Bottom Face	0.464	0	-62	-94	0.12	170.9	1.14	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	LTE Band 7 Ant 0	Bottom Face	0.464	0	-62	-94	0.12	35.1	1.12	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	LTE Band 7 Ant 0	Bottom Face	0.464	0	-62	-94	0.12	73.0	0.50	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	2.32	49.4	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 31	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
					X	Y	Z				
	LTE Band 7 Ant 0	Edge 4	0.686	0	-1.2	50.6	0.51	147.5	1.36	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 7 Ant 0	Edge 4	0.686	0	-1.2	50.6	0.51	55.5	1.29	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 32	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
					X	Y	Z				
	LTE Band 7 Ant 2	Bottom Face	1.249	0	-80	4	0.24	94.7	1.86	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				



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	LTE Band 7 Ant 2	Bottom Face	1.249	0	-80	4	0.24	120.4	1.93	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 7 Ant 2	Bottom Face	1.249	0	-80	4	0.24	110.7	1.29	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 33	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 2	Bottom Face	1.249	0	-80	4	0.24	76.9	1.93	0.03	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	LTE Band 7 Ant 2	Bottom Face	1.249	0	-80	4	0.24	118.4	1.90	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	LTE Band 7 Ant 2	Bottom Face	1.249	0	-80	4	0.24	110.7	1.29	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	2.32	49.4	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 34	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 2	Edge 4	0.776	0	-2	-40	0.45	49.2	1.32	0.03	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	LTE Band 7 Ant 2	Edge 4	0.776	0	-2	-40	0.45	110.0	1.07	0.01	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
Case 35	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 2	Edge 4	0.776	0	-2	-40	0.45	56.9	1.45	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 7 Ant 2	Edge 4	0.776	0	-2	-40	0.45	146.1	1.38	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 36	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 17 Ant 0	Bottom Face	0.623	0	-64.9	-71	0.13	165.3	1.24	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 17 Ant 0	Bottom Face	0.623	0	-64.9	-71	0.13	49.1	1.30	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 17 Ant 0	Bottom Face	0.623	0	-64.9	-71	0.13	70.6	0.66	0.01	Not required



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	NFC Ant 9	Bottom Face	0.038	0	5.5	-66.3	-0.85	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 37	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 17 Ant 0	Bottom Face	0.623	0	-64.9	-71	0.13	148.1	1.30	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	LTE Band 17 Ant 0	Bottom Face	0.623	0	-64.9	-71	0.13	48.5	1.28	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	LTE Band 17 Ant 0	Bottom Face	0.623	0	-64.9	-71	0.13	70.6	0.66	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	49.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 38	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 17 Ant 0	Edge 4	0.805	0	-2	36	0.25	125.1	1.34	0.01	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	LTE Band 17 Ant 0	Edge 4	0.805	0	-2	36	0.25	34.0	1.10	0.03	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
Case 39	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 17 Ant 0	Edge 4	0.805	0	-2	36	0.25	134.6	1.47	0.01	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 17 Ant 0	Edge 4	0.805	0	-2	36	0.25	70.1	1.41	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	LTE Band 17 Ant 0	Edge 4	0.805	0	-2	36	0.25	67.0	0.81	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	204.7	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	182.7	0.67	0.00	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7	Edge 4	0.606	0	2	106	0.34	64.2	0.61	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
Case 40	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 38 Ant 0	Bottom Face	0.527	0	-60	-82	0.11	175.9	1.14	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 38 Ant 0	Bottom Face	0.527	0	-60	-82	0.11	38.2	1.20	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				



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	LTE Band 38 Ant 0	Bottom Face	0.527	0	-60	-82	0.11	67.4	0.57	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 41	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 38 Ant 0	Bottom Face	0.527	0	-60	-82	0.11	158.9	1.86	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	LTE Band 38 Ant 0	Bottom Face	0.527	0	-60	-82	0.11	49.4	1.22	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	2.32				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 42	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 38 Ant 0	Edge 4	0.659	0	-1.2	50.6	0.51	149.2	1.33	0.01	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 38 Ant 0	Edge 4	0.659	0	-1.2	50.6	0.51	55.5	1.27	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	LTE Band 38 Ant 0	Edge 4	0.659	0	-1.2	50.6	0.51	60.0	0.66	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	204.7	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	182.7	0.67	0.00	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7	Edge 4	0.606	0	2	106	0.34	64.2	0.61	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
Case 43	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 41 Ant 2	Bottom Face	1.233	0	-78	3.8	0.51	94.3	1.85	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 41 Ant 2	Bottom Face	1.233	0	-78	3.8	0.51	119.4	1.91	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 41 Ant 2	Bottom Face	1.233	0	-78	3.8	0.51	109.0	1.27	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 44	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 41 Ant 2	Bottom Face	1.233	0	-78	3.8	0.51	76.5	1.91	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				



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	Bluetooth Ant 6	Bottom Face	0.01	0	-55.2	76.8	0.89	117.4	1.89	0.02	Not required
	LTE Band 41 Ant 2		1.233	0	-78	3.8	0.51				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	LTE Band 41 Ant 2	Bottom Face	1.233	0	-78	3.8	0.51	109.0	1.27	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	49.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 45	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 41 Ant 2	Edge 4	0.67	0	2	-50	0.41	49.0	1.34	0.03	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 41 Ant 2	Edge 4	0.67	0	2	-50	0.41	156.0	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	LTE Band 41 Ant 2	Edge 4	0.67	0	2	-50	0.41	139.1	0.68	0.00	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	204.7	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	182.7	0.67	0.00	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7	Edge 4	0.606	0	2	106	0.34	64.2	0.61	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
Case 46	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 42 Ant 3	Bottom Face	0.569	0	-38	-22	0.31	116.1	1.18	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 42 Ant 3	Bottom Face	0.569	0	-38	-22	0.31	83.8	1.25	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 42 Ant 3	Bottom Face	0.569	0	-38	-22	0.31	62.1	0.61	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 47	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 42 Ant 3	Bottom Face	0.569	0	-38	-22	0.31	100.3	1.25	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	LTE Band 42 Ant 3	Bottom Face	0.569	0	-38	-22	0.31	81.0	1.22	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	LTE Band 42 Ant 3	Bottom Face	0.569	0	2	64	0.15	130.4	0.61	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				



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	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	49.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 48	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 42 Ant 3	Edge 4	1.245	0	-3.2	12.6	0.71	101.7	1.78	0.02	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	LTE Band 42 Ant 3	Edge 4	1.245	0	-3.2	12.6	0.71	57.4	1.54	0.03	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
Case 49	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 42 Ant 3	Edge 4	1.245	0	-3.2	12.6	0.71	109.4	1.92	0.02	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 42 Ant 3	Edge 4	1.245	0	-3.2	12.6	0.71	93.5	1.85	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 50	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66 Ant 0	Bottom Face	0.656	0	-60.3	-71.3	0.06	165.3	1.95	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 66 Ant 0	Bottom Face	0.656	0	-60.3	-71.3	0.06	52.7	1.37	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case 51	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66 Ant 0	Bottom Face	0.656	0	-60.3	-71.3	0.06	148.2	1.33	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	LTE Band 66 Ant 0	Bottom Face	0.656	0	-60.3	-71.3	0.06	44.8	1.31	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	LTE Band 66 Ant 0	Bottom Face	0.674	0	-60.3	-71.3	0.06	66.0	0.71	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	49.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
Case	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



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52				(mm)	X	Y	Z	distance (mm)	SAR (W/kg)		
	LTE Band 66 Ant 0	Edge 4	0.479	0	2	72	0.56	170.7	1.15	0.01	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	LTE Band 66 Ant 0	Edge 4	0.479	0	2	72	0.56	34.0	1.09	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	LTE Band 66 Ant 0	Edge 4	0.479	0	2	72	0.56	57.4	0.48	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	204.7	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	182.7	0.67	0.00	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7	Edge 4	0.606	0	2	106	0.34	64.2	0.61	0.01	Not required
	Bluetooth Ant 6		0.005	0	-55.2	76.8	0.89				

Case 53	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 2	Bottom Face	1.257	0	-70	-1	0.86	96.9	1.87	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	LTE Band 5 Ant 2	Bottom Face	1.257	0	-70	-1	0.86	111.9	1.93	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	LTE Band 5 Ant 2	Bottom Face	1.257	0	-70	-1	0.86	99.8	1.30	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	169.0	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	52.7	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				

Case 54	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 2	Bottom Face	1.257	0	-70	-1	0.86	79.2	1.93	0.03	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	LTE Band 5 Ant 2	Bottom Face	1.257	0	-70	-1	0.86	109.8	1.91	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	LTE Band 5 Ant 2	Bottom Face	1.257	0	-70	-1	0.86	99.8	1.30	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	155.5	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	49.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-66.3	-0.85				

Case 55	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 2	Edge 4	1.014	0	-2	-22	0.08	67.1	1.55	0.03	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	LTE Band 5 Ant 2	Edge 4	1.014	0	-2	-22	0.08	92.0	1.31	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				



	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 56	LTE Band 5 Ant 2	Edge 4	1.014	0	-2	-22	0.08	74.9	1.69	0.03	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	LTE Band 5 Ant 2	Edge 4	1.014	0	-2	-22	0.08	128.1	1.62	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				

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	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	FR1 n2 Ant 0	Bottom Face	0.674	0	-58.7	-70	0.28	163.9	1.97	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n2 Ant 0	Bottom Face	0.674	0	-58.7	-70	0.28	69.3	1.39	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 2	FR1 n2 Ant 0	Bottom Face	0.674	0	-58.7	-70	0.28	146.8	1.35	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n2 Ant 0	Bottom Face	0.674	0	-58.7	-70	0.28	44.6	1.33	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n2 Ant 0	Bottom Face	0.674	0	-58.7	-70	0.28	69.3	0.71	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 3	FR1 n2 Ant 0	Edge 4	0.892	0	2	32	0.45	121.0	1.43	0.01	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	FR1 n2 Ant 0	Edge 4	0.892	0	2	32	0.45	38.2	1.18	0.03	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 4	FR1 n2 Ant 0	Edge 4	0.892	0	2	32	0.45	129.0	1.57	0.02	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n2 Ant 0	Edge 4	0.892	0	2	32	0.45	74.0	1.50	0.02	Not required



	WLAN5GHz Ant 7	Edge 4	0.606	0	2	106	0.34	202.9	1.28	0.01	Not required
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n5 Ant 0	Bottom Face	0.651	0	-64.9	-72.5	0.31	166.8	1.27	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n5 Ant 0	Bottom Face	0.651	0	-64.9	-72.5	0.31	48.1	1.33	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n5 Ant 0	Bottom Face	0.651	0	-64.9	-72.5	0.31	76.0	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n5 Ant 0	Bottom Face	0.651	0	-64.9	-72.5	0.31	149.6	1.33	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n5 Ant 0	Bottom Face	0.651	0	-64.9	-72.5	0.31	47.5	1.30	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n5 Ant 0	Bottom Face	0.651	0	-64.9	-72.5	0.31	76.0	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n5 Ant 0	Edge 4	0.658	0	-2	44	0.35	140.8	1.33	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n5 Ant 0	Edge 4	0.658	0	-2	44	0.35	62.1	1.26	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 0	Bottom Face	0.561	0	-62	-80	0.37	174.1	1.18	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n7 Ant 0	Bottom Face	0.561	0	-62	-80	0.37	41.0	1.24	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n7 Ant 0	Bottom Face	0.561	0	-62	-80	0.37	76.5	0.60	0.01	Not required

	NFC Ant 9	Bottom Face	0.038	0	5.5	-44	-0.85	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 0	Bottom Face	0.561	0	-62	-80	0.37	156.9	1.24	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n7 Ant 0	Bottom Face	0.561	0	-62	-80	0.37	40.7	1.21	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n7 Ant 0	Bottom Face	0.561	0	-62	-80	0.37	76.5	0.60	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 0	Edge 4	0.681	0	2	-38	0.51	59.2	1.36	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n7 Ant 0	Edge 4	0.681	0	2	-38	0.51	144.0	1.29	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 2	Bottom Face	1.256	0	-24	6	0.44	91.2	1.87	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n7 Ant 2	Bottom Face	1.256	0	-24	6	0.44	111.6	1.93	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n7 Ant 2	Bottom Face	1.256	0	-24	6	0.44	58.1	1.29	0.03	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 2	Bottom Face	1.256	0	-24	6	0.44	77.4	1.93	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				



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	Bluetooth Ant 6	Bottom Face	0.01	0	-55.2	76.8	0.89	108.5	1.91	0.02	Not required
	FR1 n7 Ant 2		1.256	0	-24	6	0.44				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n7 Ant 2	Bottom Face	1.256	0	-24	6	0.44	58.1	1.29	0.03	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

Case 13	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n7 Ant 2	Edge 4	0.866	0	2	-38	0.51	108.1	1.70	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				

Case 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n7 Ant 2	Edge 4	0.866	0	2	-38	0.51	59.2	1.54	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n7 Ant 2	Edge 4	0.866	0	2	-38	0.51	144.0	1.47	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				

Case 15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n38 Ant 0	Bottom Face	0.51	0	-60	-86	0.31	179.9	1.80	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n38 Ant 0	Bottom Face	0.51	0	-60	-86	0.31	70.8	1.23	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

Case 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n38 Ant 0	Bottom Face	0.51	0	-60	-86	0.31	162.9	1.19	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n38 Ant 0	Bottom Face	0.51	0	-60	-86	0.31	36.0	1.16	0.03	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n38 Ant 0	Bottom Face	0.51	0	-60	-86	0.31	77.8	0.55	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				



	NFC Ant 9	Bottom Face	0.038	0	5.5	-44	-0.85	67.3	0.69	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 17	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n38 Ant 0	Edge 4	0.646	0	-3.6	54	0.21	150.8	1.32	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n38 Ant 0	Edge 4	0.646	0	-3.6	54	0.21	52.3	1.25	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	Bluetooth Ant 6	Edge 4	0.005	0	-5.2	-96.8	0.89	202.9	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 18	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 HPUE Ant 2	Bottom Face	1.244	0	-58	9.9	0.51	84.2	1.86	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n41 HPUE Ant 2	Bottom Face	1.244	0	-58	9.9	0.51	118.7	1.92	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n41 HPUE Ant 2	Bottom Face	1.244	0	-58	9.9	0.51	83.3	1.28	0.02	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 19	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 HPUE Ant 2	Bottom Face	1.244	0	-78	4	0.51	76.3	1.92	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n41 HPUE Ant 2	Bottom Face	1.244	0	-78	4	0.51	117.6	1.90	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n41 HPUE Ant 2	Bottom Face	1.244	0	-78	4	0.51	96.3	1.28	0.02	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 20	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 HPUE Ant 2	Bottom Face	0.875	0	-78	4	0.51	94.1	2.17	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n41 HPUE Ant 2	Bottom Face	0.875	0	-78	4	0.51	70.8	1.59	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				



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	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 21	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 HPUE Ant 2	Edge 4	0.875	0	2	-42	0.55	55.3	1.55	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n41 HPUE Ant 2	Edge 4	0.875	0	2	-42	0.55	148.0	1.48	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 22	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 1	Bottom Face	1.092	0	56	30	0.38	122.9	1.71	0.02	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n41 Ant 1	Bottom Face	1.092	0	56	30	0.38	160.3	1.77	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n41 Ant 1	Bottom Face	1.092	0	56	30	0.38	89.6	1.13	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 23	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 1	Bottom Face	1.092	0	56	30	0.38	120.6	1.77	0.02	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n41 Ant 1	Bottom Face	1.092	0	56	30	0.38	156.8	1.74	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n41 Ant 1	Bottom Face	1.092	0	56	30	0.38	89.6	1.13	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 24	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 4	Bottom Face	1.254	0	21.4	70.2	0.57	74.4	1.87	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n41 Ant 4	Bottom Face	1.254	0	21.4	70.2	0.57	182.9	1.93	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n41 Ant 4	Bottom Face	1.254	0	21.4	70.2	0.57	115.3	1.29	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required



	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	148.1	0.65	0.00	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 25	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 4	Bottom Face	1.254	0	21.4	70.2	0.57	76.9	1.93	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n41 Ant 4	Bottom Face	1.254	0	21.4	70.2	0.57	179.5	1.91	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n41 Ant 4	Bottom Face	1.254	0	21.4	70.2	0.57	115.3	1.29	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 28	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 5	Bottom Face	0.683	0	-5	92.4	0.38	44.2	1.30	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n41 Ant 5	Bottom Face	0.683	0	-5	92.4	0.38	199.3	1.36	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n41 Ant 5	Bottom Face	0.683	0	-5	92.4	0.38	136.8	0.72	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 29	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 5	Bottom Face	0.683	0	-5	92.4	0.38	51.3	1.36	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n41 Ant 5	Bottom Face	0.683	0	-5	92.4	0.38	196.2	1.34	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n41 Ant 5	Bottom Face	0.683	0	-5	92.4	0.38	136.8	0.72	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 30	FR1 n66 Ant 0	Bottom Face	0.651	0	-61.9	-88	0.23	182.0	1.94	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n66 Ant 0	Bottom Face	0.651	0	-61.9	-88	0.23	80.5	1.37	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 31	FR1 n66 Ant 0	Bottom Face	0.651	0	-61.9	-88	0.23	182.0	1.94	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n66 Ant 0	Bottom Face	0.651	0	-61.9	-88	0.23	70.8	1.37	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 32	FR1 n66 Ant 0	Edge 4	0.549	0	2	70	0.35	167.0	1.22	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n66 Ant 0	Edge 4	0.549	0	2	70	0.35	36.0	1.16	0.03	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
Case 33	FR1 n77 Part270 Ant 3	Bottom Face	0.776	0	-68	-28	0.41	123.0	1.39	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part270 Ant 3	Bottom Face	0.776	0	-68	-28	0.41	86.3	1.45	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n77 Part270 Ant 3	Bottom Face	0.776	0	-68	-28	0.41	75.2	0.81	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 34	FR1 n77 Part270 Ant 3	Bottom Face	0.776	0	-68	-28	0.41	105.6	1.45	0.02	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part270 Ant 3	Bottom Face	0.776	0	-68	-28	0.41	84.5	1.43	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				



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	FR1 n77 Part27O Ant 3	Bottom Face	0.776	0	-68	-28	0.41	75.2	0.81	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	135.2	0.72	0.00	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6	Bottom Face	0.01	0	-55.2	76.8	0.89	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

Case 35	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77 Part27O Ant 3	Edge 4	1.247	0	-5.1	-18	0.33	71.4	1.79	0.03	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	FR1 n77 Part27O Ant 3	Edge 4	1.247	0	-5.1	-18	0.33	88.1	1.54	0.02	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				

Case 36	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77 Part27O Ant 3	Edge 4	1.247	0	-5.1	-18	0.33	78.8	1.92	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n77 Part27O Ant 3	Edge 4	1.247	0	-5.1	-18	0.33	124.2	1.85	0.02	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				

Case 37	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0	-70	-30	0.46	125.3	1.26	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0	-70	-30	0.46	85.4	1.32	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0	-70	-30	0.46	76.8	0.68	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

Case 38	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0	-70	-30	0.46	107.8	1.32	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0	-70	-30	0.46	83.7	1.29	0.02	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n77 Part27Q Ant 3	Bottom Face	0.641	0	-70	-30	0.46	76.8	0.68	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required



	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6	Bottom Face	0.01	0	-55.2	76.8	0.89	135.2	0.72	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 39	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 3	Edge 4	0.908	0	-4.2	-24.6	0.23	64.7	1.45	0.03	Not required
	WLAN2.4GHz Ant 6		0.539	0	2	-89	0.31				
	FR1 n77 Part27Q Ant 3	Edge 4	0.908	0	-4.2	-24.6	0.23	94.6	1.20	0.01	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
	WLAN2.4GHz Ant 6	Edge 4	0.539	0	2	-89	0.31	159.1	0.83	0.00	Not required
	WLAN2.4GHz Ant 7		0.292	0	-2	70	0.56				
Case 40	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 3	Edge 4	0.908	0	-4.2	-24.6	0.23	72.2	1.58	0.03	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
	WLAN5GHz Ant 6		0.669	0	-4.2	-98.6	0.32				
	FR1 n77 Part27Q Ant 3	Edge 4	0.908	0	-4.2	-24.6	0.23	130.7	1.51	0.01	Not required
	WLAN5GHz Ant 7		0.606	0	2	106	0.34				
	WLAN5GHz Ant 6	Edge 4	0.669	0	-4.2	-98.6	0.32	202.9	1.28	0.01	Not required
	Bluetooth Ant 6		0.005	0	-5.2	-96.8	0.89				
WLAN5GHz Ant 7	0.606		0	2	106	0.34					
Case 41	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27O Ant 1	Bottom Face	0.93	0	64	32	0.56	128.9	1.54	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27O Ant 1	Bottom Face	0.93	0	64	32	0.56	166.4	1.61	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n77 Part27O Ant 1	Bottom Face	0.93	0	64	32	0.56	95.9	0.97	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 42	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27O Ant 1	Bottom Face	0.93	0	64	32	0.56	127.3	1.61	0.02	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part27O Ant 1	Bottom Face	0.93	0	64	32	0.56	162.9	1.58	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n77 Part27O Ant 1	Bottom Face	0.93	0	64	32	0.56	95.9	0.97	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required



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	Bluetooth Ant 6	Bottom Face	0.01	0	-55.2	76.8	0.89	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 43	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 1	Bottom Face	0.752	0	58	26	0.47	126.7	1.37	0.01	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27Q Ant 1	Bottom Face	0.752	0	58	26	0.47	158.0	1.43	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n77 Part27Q Ant 1	Bottom Face	0.752	0	58	26	0.47	87.5	0.79	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 44	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 1	Bottom Face	0.752	0	58	26	0.47	124.1	1.43	0.01	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part27Q Ant 1	Bottom Face	0.752	0	58	26	0.47	154.5	1.40	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n77 Part27Q Ant 1	Bottom Face	0.752	0	58	26	0.47	87.5	0.79	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 45	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 4	Bottom Face	1.241	0	19.2	105	0.53	199.9	2.53	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27Q Ant 4	Bottom Face	1.241	0	19.2	105	0.53	148.1	1.89	0.02	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 46	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 4	Bottom Face	1.241	0	19.2	105	0.53	77.3	1.92	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part27Q Ant 4	Bottom Face	1.241	0	19.2	105	0.53	212.7	1.89	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n77 Part27Q Ant 4	Bottom Face	1.241	0	19.2	105	0.53	149.6	1.28	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required



	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6	Bottom Face	0.01	0	-55.2	76.8	0.89	135.2	0.72	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 49	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 4	Bottom Face	0.87	0	18.6	90.7	0.46	67.9	1.48	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27Q Ant 4	Bottom Face	0.87	0	18.6	90.7	0.46	202.0	1.55	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n77 Part27Q Ant 4	Bottom Face	0.87	0	18.6	90.7	0.46	135.3	0.91	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 50	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 4	Bottom Face	0.87	0	18.6	90.7	0.46	74.7	1.55	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part27Q Ant 4	Bottom Face	0.87	0	18.6	90.7	0.46	198.6	1.52	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n77 Part27Q Ant 4	Bottom Face	0.87	0	18.6	90.7	0.46	135.3	0.91	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 53	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 5	Bottom Face	0.667	0	-6	93.5	0.31	43.2	1.28	0.03	Not required
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27Q Ant 5	Bottom Face	0.667	0	-6	93.5	0.31	200.3	1.34	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	FR1 n77 Part27Q Ant 5	Bottom Face	0.667	0	-6	93.5	0.31	138.0	0.71	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	199.9	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 7	Bottom Face	0.677	0	-29.8	-105.4	0.17	70.8	0.72	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 54	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 5	Bottom Face	0.667	0	-6	93.5	0.31	50.4	1.34	0.03	Not required



	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	197.1	1.32	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part270 Ant 5		0.667	0	-6	93.5	0.31				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	138.0	0.71	0.00	Not required
	FR1 n77 Part270 Ant 5		0.667	0	-6	93.5	0.31				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 55	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 5	Bottom Face	0.921	0	-4	116	0.46	199.9	2.21	0.02	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	WLAN2.4GHz Ant 6		0.614	0	-49.2	93.6	0.46				
	FR1 n77 Part27Q Ant 5	Bottom Face	0.921	0	-4	116	0.46	70.8	1.64	0.03	Not required
	WLAN2.4GHz Ant 7		0.677	0	-29.8	-105.4	0.17				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN2.4GHz Ant 6	Bottom Face	0.614	0	-49.2	93.6	0.46	148.1	0.65	0.00	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
Case 56	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77 Part27Q Ant 5	Bottom Face	0.921	0	-4	116	0.46	59.5	1.60	0.03	Not required
	WLAN5GHz Ant 6		0.667	0	-56	87	0.32				
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	FR1 n77 Part27Q Ant 5	Bottom Face	0.921	0	-4	116	0.46	219.7	1.57	0.01	Not required
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	FR1 n77 Part27Q Ant 5	Bottom Face	0.921	0	-4	116	0.46	160.3	0.96	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	181.3	1.33	0.01	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	WLAN5GHz Ant 7		0.652	0	-28	-102.4	0.32				
	WLAN5GHz Ant 6	Bottom Face	0.667	0	-56	87	0.32	135.2	0.72	0.00	Not required
	Bluetooth Ant 6		0.01	0	-55.2	76.8	0.89				
	NFC Ant 9		0.038	0	5.5	-44	-0.85				
	WLAN5GHz Ant 7	Bottom Face	0.652	0	-28	-102.4	0.32	67.3	0.69	0.01	Not required
	NFC Ant 9		0.038	0	5.5	-44	-0.85				

Note: *Instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

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18. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

19. References

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- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
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