

5.8 (5.725~5.850)		140	5700	13.10	14.50	No
		144	5720	13.00	14.50	No
	802.11ac(VHT40)	102	5510	13.20	14.50	No
		118	5590	13.10	14.50	No
		134	5670	13.00	14.50	No
		142	5710	13.20	14.50	No
		106	5530	<b>13.30</b>	14.50	Yes
	802.11ac(VHT80)	122	5610	13.00	14.50	Yes
		138	5690	<b>13.30</b>	14.50	Yes
		149	5745	14.00	14.50	No
	802.11a	157	5785	14.10	14.50	No
		165	5825	14.10	14.50	No
		149	5745	13.50	14.50	No
	802.11n(HT20)	157	5785	13.60	14.50	No
		165	5825	13.60	14.50	No
		151	5755	13.50	14.50	No
	802.11n(HT40)	159	5795	13.50	14.50	No
		149	5745	13.50	14.50	No
		157	5785	13.70	14.50	No
	802.11ac(VHT20)	165	5825	13.60	14.50	No
		151	5755	13.60	14.50	No
		159	5795	13.70	14.50	No
	802.11ac(VHT40)	155	5775	<b>13.60</b>	14.50	Yes

## 8.4 WIFI for Module (Intel 8265D2W)

### 8.4.1 2.4G WIFI (Main Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	14.50	15.00	Yes
		6	2437	<b>14.60</b>	15.00	Yes
		11	2462	14.50	15.00	Yes
	802.11g	1	2412	13.80	15.00	No
		6	2437	13.90	15.00	No
		11	2462	13.80	15.00	No
	802.11n(HT20)	1	2412	14.10	15.00	No
		6	2437	13.90	15.00	No
		11	2462	13.80	15.00	No
	802.11n(HT40)	3	2422	13.90	15.00	No
		6	2437	14.10	15.00	No
		9	2452	14.10	15.00	No

### 8.4.2 2.4G WIFI (Auxiliary Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.50</b>	15.00	Yes
		6	2437	14.30	15.00	Yes
		11	2462	14.40	15.00	Yes
	802.11g	1	2412	14.10	15.00	No
		6	2437	14.10	15.00	No
		11	2462	14.00	15.00	No
	802.11n(HT20)	1	2412	14.00	15.00	No
		6	2437	14.00	15.00	No
		11	2462	13.90	15.00	No
	802.11n(HT40)	3	2422	14.10	15.00	No
		6	2437	13.70	15.00	No
		9	2452	14.00	15.00	No

### 8.4.3 5G WIFI (Main Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.00	13.50	No
		40	5200	13.20	13.50	No
		48	5240	13.20	13.50	No
	802.11n(HT20)	36	5180	12.50	13.50	No
		40	5200	12.70	13.50	No
		48	5240	12.70	13.50	No
	802.11n(HT40)	38	5190	12.60	13.50	No
		46	5230	12.70	13.50	No
	802.11ac(VHT20)	36	5180	12.70	13.50	No
		40	5200	12.50	13.50	No
		48	5240	12.50	13.50	No
	802.11ac(VHT40)	38	5190	12.60	13.50	No
		46	5230	12.60	13.50	No
	802.11ac(VHT80)	42	5210	12.60	13.50	No
5.3 (5.25~5.35)	802.11a	52	5260	13.10	13.50	No
		60	5300	12.80	13.50	No
		64	5320	13.00	13.50	No
	802.11n(HT20)	52	5260	12.70	13.50	No
		60	5300	12.60	13.50	No
		64	5320	12.70	13.50	No
	802.11n(HT40)	54	5270	12.60	13.50	No
		62	5310	12.60	13.50	No
	802.11ac(VHT20)	52	5260	12.50	13.50	No
		60	5300	12.60	13.50	No
		64	5320	12.50	13.50	No
	802.11ac(VHT40)	54	5270	12.50	13.50	No
		62	5310	12.50	13.50	No
	802.11ac(VHT80)	58	5290	12.40	13.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	12.90	13.50	No
		116	5580	13.20	13.50	No
		140	5700	13.10	13.50	No
		144	5720	13.00	13.50	No
	802.11n(HT20)	100	5500	12.40	13.50	No
		116	5580	12.70	13.50	No
		140	5700	12.60	13.50	No
		144	5720	12.50	13.50	No
	802.11n(HT40)	102	5510	12.70	13.50	No
		118	5590	12.70	13.50	No
		134	5670	12.50	13.50	No
		142	5710	12.60	13.50	No
	802.11ac(VHT20)	100	5500	12.60	13.50	No
		116	5580	12.60	13.50	No

5.8 (5.725~5.850)		140	5700	12.60	13.50	No
		144	5720	12.50	13.50	No
	802.11ac(VHT40)	102	5510	12.60	13.50	No
		118	5590	12.60	13.50	No
		134	5670	12.50	13.50	No
		142	5710	12.50	13.50	No
		106	5530	12.60	13.50	Yes
	802.11ac(VHT80)	122	5610	12.50	13.50	Yes
		138	5690	12.60	13.50	Yes
		149	5745	13.10	13.50	No
	802.11a	157	5785	12.80	13.50	No
		165	5825	13.10	13.50	No
		149	5745	12.50	13.50	No
	802.11n(HT20)	157	5785	12.50	13.50	No
		165	5825	12.70	13.50	No
		151	5755	12.50	13.50	No
	802.11n(HT40)	159	5795	12.40	13.50	No
		149	5745	12.50	13.50	No
		157	5785	12.60	13.50	No
	802.11ac(VHT20)	165	5825	12.70	13.50	No
		151	5755	12.60	13.50	No
		159	5795	12.40	13.50	No
	802.11ac(VHT40)	155	5775	12.40	13.50	Yes

#### 8.4.4 5G WIFI (Auxiliary Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.10	13.50	No
		40	5200	13.10	13.50	No
		48	5240	13.10	13.50	No
	802.11n(HT20)	36	5180	12.60	13.50	No
		40	5200	12.70	13.50	No
		48	5240	12.60	13.50	No
	802.11n(HT40)	38	5190	12.60	13.50	No
		46	5230	12.60	13.50	No
	802.11ac(VHT20)	36	5180	12.60	13.50	No
		40	5200	12.60	13.50	No
		48	5240	12.60	13.50	No
	802.11ac(VHT40)	38	5190	12.60	13.50	No
		46	5230	12.60	13.50	No
	802.11ac(VHT80)	42	5210	12.40	13.50	No
5.3 (5.25~5.35)	802.11a	52	5260	13.00	13.50	No
		60	5300	12.90	13.50	No
		64	5320	13.10	13.50	No
	802.11n(HT20)	52	5260	12.40	13.50	No
		60	5300	12.50	13.50	No
		64	5320	12.50	13.50	No
	802.11n(HT40)	54	5270	12.60	13.50	No
		62	5310	12.50	13.50	No
	802.11ac(VHT20)	52	5260	12.60	13.50	No
		60	5300	12.60	13.50	No
		64	5320	12.60	13.50	No
	802.11ac(VHT40)	54	5270	12.60	13.50	No
		62	5310	12.50	13.50	No
	802.11ac(VHT80)	58	5290	<b>12.50</b>	13.50	Yes
5.6 (5.47~5.725)	802.11a	100	5500	12.90	13.50	No
		116	5580	13.10	13.50	No
		140	5700	13.00	13.50	No
		144	5720	13.10	13.50	No
	802.11n(HT20)	100	5500	12.40	13.50	No
		116	5580	12.60	13.50	No
		140	5700	12.40	13.50	No
		144	5720	12.50	13.50	No
	802.11n(HT40)	102	5510	12.70	13.50	No
		118	5590	12.60	13.50	No
		134	5670	12.60	13.50	No
		142	5710	12.60	13.50	No
	802.11ac(VHT20)	100	5500	12.50	13.50	No
		116	5580	12.60	13.50	No

5.8 (5.725~5.850)		140	5700	12.50	13.50	No
		144	5720	12.60	13.50	No
	802.11ac(VHT40)	102	5510	12.60	13.50	No
		118	5590	12.70	13.50	No
		134	5670	12.60	13.50	No
		142	5710	12.50	13.50	No
		106	5530	12.50	13.50	Yes
	802.11ac(VHT80)	122	5610	12.40	13.50	Yes
		138	5690	<b>12.60</b>	13.50	Yes
		149	5745	13.00	13.50	No
	802.11a	157	5785	12.90	13.50	No
		165	5825	13.00	13.50	No
		149	5745	12.40	13.50	No
	802.11n(HT20)	157	5785	12.60	13.50	No
		165	5825	12.40	13.50	No
		151	5755	12.40	13.50	No
	802.11n(HT40)	159	5795	12.40	13.50	No
		149	5745	12.50	13.50	No
		157	5785	12.60	13.50	No
	802.11ac(VHT20)	165	5825	12.50	13.50	No
		151	5755	12.40	13.50	No
		159	5795	12.40	13.50	No
	802.11ac(VHT40)	155	5775	<b>12.40</b>	13.50	Yes

## 8.5 WIFI for Module (QCNFA425)

### 8.5.1 2.4G WIFI (Main Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.70</b>	15.00	Yes
		6	2437	14.60	15.00	Yes
		11	2462	14.60	15.00	Yes
	802.11g	1	2412	13.80	14.50	No
		6	2437	13.70	14.50	No
		11	2462	14.00	14.50	No
	802.11n(HT20)	1	2412	13.80	14.50	No
		6	2437	13.60	14.50	No
		11	2462	13.80	14.50	No
	802.11n(HT40)	3	2422	13.70	14.50	No
		6	2437	13.90	14.50	No
		9	2452	13.90	14.50	No

### 8.5.2 2.4G WIFI (Auxiliary Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	<b>14.80</b>	15.00	Yes
		6	2437	14.70	15.00	Yes
		11	2462	14.70	15.00	Yes
	802.11g	1	2412	13.70	14.50	No
		6	2437	13.90	14.50	No
		11	2462	13.80	14.50	No
	802.11n(HT20)	1	2412	13.60	14.50	No
		6	2437	13.90	14.50	No
		11	2462	13.80	14.50	No
	802.11n(HT40)	3	2422	13.70	14.50	No
		6	2437	13.70	14.50	No
		9	2452	13.80	14.50	No

### 8.5.3 5G WIFI (Main Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.60	14.00	No
		40	5200	13.50	14.00	No
		48	5240	13.60	14.00	No
	802.11n(HT20)	36	5180	13.00	13.50	No
		40	5200	13.00	13.50	No
		48	5240	13.00	13.50	No
	802.11n(HT40)	38	5190	10.90	11.50	No
		46	5230	10.60	11.50	No
	802.11ac(VHT20)	36	5180	13.00	13.50	No
		40	5200	13.00	13.50	No
		48	5240	13.00	13.50	No
	802.11ac(VHT40)	38	5190	11.00	11.50	No
		46	5230	10.50	11.50	No
	802.11ac(VHT80)	42	5210	10.50	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	13.60	14.00	Yes
		60	5300	13.50	14.00	Yes
		64	5320	<b>13.70</b>	14.00	Yes
	802.11n(HT20)	52	5260	13.00	13.50	No
		60	5300	13.10	13.50	No
		64	5320	12.90	13.50	No
	802.11n(HT40)	54	5270	11.30	12.00	No
		62	5310	11.20	12.00	No
	802.11ac(VHT20)	52	5260	13.00	13.50	No
		60	5300	13.20	13.50	No
		64	5320	12.80	13.50	No
	802.11ac(VHT40)	54	5270	11.20	12.00	No
		62	5310	11.30	12.00	No
	802.11ac(VHT80)	58	5290	10.20	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	14.30	14.50	Yes
		116	5580	14.20	14.50	Yes
		140	5700	14.20	14.50	Yes
		144	5720	13.80	14.50	Yes
	802.11n(HT20)	100	5500	13.20	14.00	No
		116	5580	13.20	14.00	No
		140	5700	13.50	14.00	No
		144	5720	13.10	14.00	No
	802.11n(HT40)	102	5510	12.30	13.00	No
		134	5670	13.30	14.00	No
	802.11ac(VHT20)	100	5500	13.30	14.00	No
		116	5580	13.20	14.00	No
		140	5700	13.50	14.00	No
		144	5720	13.20	14.00	No

	802.11ac(VHT40)	102	5510	12.40	13.00	No
		134	5670	13.40	14.00	No
	802.11ac(VHT80)	106	5530	10.40	11.00	No
5.8 (5.725~5.850)	802.11a	149	5745	15.00	15.50	Yes
		157	5785	15.10	15.50	Yes
		165	5825	15.30	15.50	Yes
	802.11n(HT20)	149	5745	14.02	14.50	No
		157	5785	13.85	14.50	No
		165	5825	13.98	14.50	No
	802.11n(HT40)	151	5755	14.07	14.50	No
		159	5795	13.82	14.50	No
	802.11ac(VHT20)	149	5745	13.92	14.50	No
		157	5785	13.87	14.50	No
		165	5825	14.16	14.50	No
	802.11ac(VHT40)	151	5755	13.89	14.50	No
		159	5795	13.79	14.50	No
	802.11ac(VHT80)	155	5775	10.31	11.00	No

### 8.5.4 5G WIFI (Auxiliary Antenna)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Power Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	12.90	14.00	No
		40	5200	12.70	14.00	No
		48	5240	13.10	14.00	No
	802.11n(HT20)	36	5180	13.00	13.50	No
		40	5200	12.90	13.50	No
		48	5240	12.90	13.50	No
	802.11n(HT40)	38	5190	10.70	11.50	No
		46	5230	10.60	11.50	No
	802.11ac(VHT20)	36	5180	12.80	13.50	No
		40	5200	12.80	13.50	No
		48	5240	12.90	13.50	No
	802.11ac(VHT40)	38	5190	10.80	11.50	No
		46	5230	10.70	11.50	No
	802.11ac(VHT80)	42	5210	10.10	11.00	No
5.3 (5.25~5.35)	802.11a	52	5260	<b>13.70</b>	14.00	Yes
		60	5300	13.60	14.00	Yes
		64	5320	<b>13.70</b>	14.00	Yes
	802.11n(HT20)	52	5260	12.80	13.50	No
		60	5300	12.70	13.50	No
		64	5320	13.20	13.50	No
	802.11n(HT40)	54	5270	11.10	12.00	No
		62	5310	11.20	12.00	No
	802.11ac(VHT20)	52	5260	12.90	13.50	No
		60	5300	13.10	13.50	No
		64	5320	13.20	13.50	No
	802.11ac(VHT40)	54	5270	11.00	12.00	No
		62	5310	11.10	12.00	No
	802.11ac(VHT80)	58	5290	10.40	11.00	No
5.6 (5.47~5.725)	802.11a	100	5500	<b>14.40</b>	14.50	Yes
		116	5580	14.20	14.50	Yes
		140	5700	14.20	14.50	Yes
		144	5720	14.10	14.50	Yes
	802.11n(HT20)	100	5500	13.40	14.00	No
		116	5580	13.30	14.00	No
		140	5700	13.50	14.00	No
		144	5720	13.50	14.00	No
	802.11n(HT40)	102	5510	12.50	13.00	No
		134	5670	13.30	14.00	No
	802.11ac(VHT20)	100	5500	13.30	14.00	No
		116	5580	13.20	14.00	No
		140	5700	13.50	14.00	No
		144	5720	13.30	14.00	No

	802.11ac(VHT40)	102	5510	12.50	13.00	No
		134	5670	13.30	14.00	No
	802.11ac(VHT80)	106	5530	10.40	11.00	No
5.8 (5.725~5.850)	802.11a	149	5745	14.90	15.50	Yes
		157	5785	14.50	15.50	Yes
		165	5825	<b>15.00</b>	15.50	Yes
	802.11n(HT20)	149	5745	13.76	14.50	No
		157	5785	13.67	14.50	No
		165	5825	14.07	14.50	No
	802.11n(HT40)	151	5755	14.10	14.50	No
		159	5795	13.91	14.50	No
	802.11ac(VHT20)	149	5745	13.77	14.50	No
		157	5785	13.72	14.50	No
		165	5825	13.83	14.50	No
	802.11ac(VHT40)	151	5755	13.96	14.50	No
		159	5795	13.76	14.50	No
	802.11ac(VHT80)	155	5775	10.55	11.00	No

## 8.6 Bluetooth for Module (Intel 3165D2W)

### 8.6.1 Bluetooth (Auxiliary Antenna)

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	<b>5.80</b>	5.29	4.22	0.84	1.02	0.99
Tune-up Power Limit (dBm)	6.50			1.50		
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Conducted Power (dBm)	1.16	1.26	1.25	3.59	4.96	4.63
Tune-up Power Limit (dBm)	1.50			5.00		

## 8.7 Bluetooth for Module (Intel 8265D2W)

### 8.7.1 Bluetooth (Main Antenna)

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	10.92	<b>11.35</b>	10.62	9.55	9.69	8.75
Tune-up Power Limit (dBm)	12.00			10.00		
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Conducted Power (dBm)	8.98	9.14	8.26	3.67	4.16	2.39
Tune-up Power Limit (dBm)	10.00			5.00		

## 8.8 Bluetooth for Module (QCNFA425)

### 8.8.1 Bluetooth (Main Antenna)

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	-0.77	-0.61	-0.67	0.46	<b>0.50</b>	0.44
Tune-up Power Limit (dBm)	7.00			7.00		
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Conducted Power (dBm)	-0.36	-0.26	-0.57	-5.19	-3.72	-3.92
Tune-up Power Limit (dBm)	7.00			4.00		

### 8.8.2 Bluetooth (Auxiliary Antenna)

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	2.56	2.60	2.89	3.96	3.81	<b>4.01</b>
Tune-up Power Limit (dBm)	7.00			7.00		
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Conducted Power (dBm)	2.85	2.94	3.16	3.09	2.69	2.65
Tune-up Power Limit (dBm)	7.00			4.00		

## 8.9 Power Reduction List

When the human body approach the device, the proximity sensor is triggered for 3G / 4G power reduction

WCDMA Band	Band 2			Band 4		
Channel	9262	9400	9538	1312	1412	1513
RMC 12.2Kbps	11.75	<b>11.91</b>	11.63	12.75	12.98	<b>13.00</b>
HSDPA Subtest-1	11.81	11.91	11.73	12.78	12.95	13.05
HSDPA Subtest-2	11.59	11.86	11.43	12.47	12.87	12.97
HSDPA Subtest-3	11.33	11.70	11.46	12.10	12.69	12.79
HSDPA Subtest-4	11.35	11.70	11.47	12.11	12.62	12.79
HSUPA Subtest-1	11.44	11.22	11.00	12.47	12.67	12.79
HSUPA Subtest-2	10.65	10.80	10.46	12.19	12.41	12.52
HSUPA Subtest-3	11.16	11.26	10.98	12.14	12.40	12.48
HSUPA Subtest-4	11.15	11.34	10.98	12.18	12.40	12.51
HSUPA Subtest-5	11.45	11.58	11.28	12.47	12.68	12.73
Band	Band 5			-		
Channel	4132	4182	4233	-	-	-
RMC 12.2Kbps	18.54	<b>18.62</b>	<b>18.62</b>	-	-	-
HSDPA Subtest-1	18.54	18.60	18.75	-	-	-
HSDPA Subtest-2	18.28	18.48	18.69	-	-	-
HSDPA Subtest-3	18.32	18.49	18.51	-	-	-
HSDPA Subtest-4	18.33	18.51	18.45	-	-	-
HSUPA Subtest-1	18.26	18.32	18.49	-	-	-
HSUPA Subtest-2	17.82	17.82	17.85	-	-	-
HSUPA Subtest-3	18.23	18.26	18.37	-	-	-
HSUPA Subtest-4	18.29	18.30	18.35	-	-	-
HSUPA Subtest-5	18.30	18.33	18.38	-	-	-

FDD LTE Band 2							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	18700	18900	19100	18700	18900	19100
20MHz	1 (RB_Pos:0)	<b>12.52</b>	12.48	12.34	12.50	12.31	12.18
	1 (RB_Pos:49)	12.28	12.45	12.00	12.23	12.28	11.84
	1 (RB_Pos:99)	12.35	12.40	12.25	12.31	12.17	12.09
	50 (RB_Pos:0)	12.39	12.45	12.25	12.11	12.27	11.96
	50 (RB_Pos:24)	12.29	12.39	12.12	11.98	12.18	11.80
	50 (RB_Pos:49)	12.26	12.43	12.22	11.95	12.19	11.88
	100 (RB_Pos:0)	12.24	12.34	12.21	11.90	12.09	11.94
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	18675	18900	19125	18675	18900	19125
15MHz	1 (RB_Pos:0)	12.34	12.49	12.21	12.19	12.22	12.10
	1 (RB_Pos:37)	12.26	12.45	12.17	12.07	12.26	12.04
	1 (RB_Pos:74)	12.09	12.34	12.20	11.92	12.21	12.11
	36 (RB_Pos:0)	12.29	12.43	12.09	12.16	12.21	11.89
	36 (RB_Pos:18)	12.36	12.42	12.18	12.19	12.18	11.96
	36 (RB_Pos:37)	12.26	12.45	12.15	12.04	12.23	11.94
	75 (RB_Pos:0)	12.20	12.21	12.02	11.93	12.01	11.84
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	18650	18900	19150	18650	18900	19150
10MHz	1 (RB_Pos:0)	12.46	12.42	12.20	12.28	12.36	12.04
	1 (RB_Pos:24)	12.34	12.35	12.18	12.21	12.36	12.05
	1 (RB_Pos:49)	12.26	12.43	12.30	12.11	12.45	12.16
	25 (RB_Pos:0)	12.44	12.54	12.16	12.19	12.36	11.90
	25 (RB_Pos:12)	12.37	12.46	12.14	12.10	12.30	11.94
	25 (RB_Pos:24)	12.42	12.47	12.18	12.11	12.27	11.98
	50 (RB_Pos:0)	12.16	12.23	11.95	11.88	12.01	11.74
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	18625	18900	19175	18625	18900	19175
5MHz	1 (RB_Pos:0)	12.39	12.47	12.12	12.25	12.32	11.98
	1 (RB_Pos:12)	12.31	12.38	12.13	12.12	12.29	12.02
	1 (RB_Pos:24)	12.31	12.42	12.18	12.05	12.34	12.06
	12 (RB_Pos:0)	12.42	12.42	12.05	12.12	12.19	11.77
	12 (RB_Pos:6)	12.31	12.39	12.09	12.09	12.16	11.81
	12 (RB_Pos:11)	12.30	12.45	12.13	12.00	12.22	11.83
	25 (RB_Pos:0)	12.19	12.20	11.92	11.85	11.93	11.62
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	18615	18900	19185	18615	18900	19185
3MHz	1 (RB_Pos:0)	12.35	12.38	12.08	12.30	11.89	11.74

	1 (RB_Pos:7)	12.33	12.37	12.11	12.27	11.96	11.83
	1 (RB_Pos:14)	12.30	12.47	12.15	12.33	12.20	11.81
	8 (RB_Pos:0)	12.48	12.41	12.19	12.20	12.08	11.94
	8 (RB_Pos:4)	12.35	12.41	12.15	12.16	12.04	11.92
	8 (RB_Pos:7)	12.37	12.47	12.20	12.20	12.18	11.91
	15 (RB_Pos:0)	12.15	12.19	11.97	11.89	11.97	11.71
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	18607	18900	19193	18607	18900	19193
1.4MHz	1 (RB_Pos:0)	12.55	12.44	12.19	12.42	11.87	11.97
	1 (RB_Pos: 2)	12.53	12.32	12.16	12.29	11.82	12.06
	1 (RB_Pos:5)	12.57	12.42	12.18	12.45	12.26	11.96
	3 (RB_Pos:0)	12.50	12.39	12.20	12.18	12.29	11.99
	3 (RB_Pos:1)	12.46	12.36	12.19	12.20	12.28	12.00
	3 (RB_Pos:2)	12.49	12.41	12.19	12.22	12.28	11.93
	6 (RB_Pos:0)	12.26	12.16	11.91	12.05	11.93	11.65

FDD LTE Band 4							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20050	20175	20300	20050	20175	20300
20MHz	1 (RB_Pos:0)	13.07	<b>13.26</b>	13.04	13.01	12.94	12.86
	1 (RB_Pos:49)	13.20	13.12	13.02	13.09	12.88	12.93
	1 (RB_Pos:99)	13.11	13.07	13.33	13.02	12.85	13.22
	50 (RB_Pos:0)	13.19	13.07	12.92	12.97	12.83	12.73
	50 (RB_Pos:24)	13.12	13.10	12.94	12.88	12.82	12.79
	50 (RB_Pos:49)	13.04	13.03	13.10	12.83	12.74	12.92
	100 (RB_Pos:0)	12.88	12.89	12.92	12.65	12.58	12.68
15MHz	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20025	20175	20325	20025	20175	20325
10MHz	1 (RB_Pos:0)	12.91	13.21	13.15	12.79	13.20	12.81
	1 (RB_Pos:37)	13.03	13.19	13.24	12.88	13.15	13.00
	1 (RB_Pos:74)	12.91	13.11	13.39	12.85	13.05	13.17
	36 (RB_Pos:0)	13.08	13.09	13.02	12.80	12.91	12.84
	36 (RB_Pos:18)	13.13	13.17	13.11	12.87	12.94	12.93
	36 (RB_Pos:37)	13.11	13.05	13.18	12.89	12.82	13.00
	75 (RB_Pos:0)	12.84	12.84	12.89	12.52	12.56	12.57
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20000	20175	20350	20000	20175	20350
10MHz	1 (RB_Pos:0)	12.93	13.22	13.22	13.21	13.04	12.89
	1 (RB_Pos:24)	13.05	13.13	13.34	13.35	13.01	13.03
	1 (RB_Pos:49)	13.08	13.14	13.47	13.40	12.95	13.22
	25 (RB_Pos:0)	13.08	13.21	13.12	12.89	12.99	12.95

	25 (RB_Pos:12)	13.16	13.17	13.16	12.96	12.94	12.98
	25 (RB_Pos:24)	13.13	13.14	13.22	12.94	12.88	13.07
	50 (RB_Pos:0)	12.79	12.87	12.87	12.62	12.60	12.63
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	19975	20175	20375	19975	20175	20375
5MHz	1 (RB_Pos:0)	12.98	13.22	13.36	12.88	13.04	13.23
	1 (RB_Pos:12)	13.02	13.13	13.35	12.92	12.95	13.23
	1 (RB_Pos:24)	13.03	13.13	13.46	12.98	12.92	13.41
	12 (RB_Pos:0)	12.89	13.15	13.15	12.68	13.06	12.94
	12 (RB_Pos:6)	12.95	13.15	13.17	12.72	13.01	12.97
	12 (RB_Pos:11)	12.98	13.12	13.18	12.67	12.99	12.97
	25 (RB_Pos:0)	12.65	12.86	12.88	12.42	12.63	12.69
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	19965	20175	20385	19965	20175	20385
3.0MHz	1 (RB_Pos:0)	12.89	13.27	13.28	12.96	12.91	12.89
	1 (RB_Pos:7)	12.83	13.25	13.27	12.58	12.88	12.89
	1 (RB_Pos:14)	12.91	13.09	13.29	13.06	12.84	12.88
	8 (RB_Pos:0)	12.93	13.13	13.21	12.62	12.92	12.91
	8 (RB_Pos:4)	12.94	13.03	13.18	12.62	12.88	13.04
	8 (RB_Pos:7)	13.02	13.05	13.25	12.68	12.88	12.94
	15 (RB_Pos:0)	12.60	12.78	12.87	12.34	12.50	12.64
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	19957	20175	20393	19957	20175	20393
1.4MHz	1 (RB_Pos:0)	12.94	13.40	13.32	12.64	12.54	12.87
	1 (RB_Pos:2)	12.85	13.36	13.36	12.61	12.69	12.91
	1 (RB_Pos:5)	12.92	13.38	13.42	12.49	12.54	12.49
	3 (RB_Pos:0)	12.82	13.12	13.32	12.69	13.11	13.04
	3 (RB_Pos:1)	12.81	13.13	13.32	12.62	12.99	13.13
	3 (RB_Pos:2)	12.86	13.12	13.29	12.69	13.11	13.07
	6 (RB_Pos:0)	12.55	12.88	12.91	12.41	12.54	12.75

FDD LTE Band 5							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20450	20525	20600	20450	20525	20600
10 MHz	1 (RB_Pos:0)	18.63	<b>18.75</b>	18.73	18.65	18.49	18.52
	1 (RB_Pos:25)	18.62	18.68	18.71	18.65	18.46	18.45
	1 (RB_Pos:49)	18.71	18.67	18.89	18.82	18.46	18.60
	25 (RB_Pos:0)	18.67	18.67	18.69	18.24	18.29	18.22
	25 (RB_Pos:12)	18.72	18.67	18.72	18.31	18.32	18.21
	25 (RB_Pos:25)	18.80	18.62	18.70	18.33	18.28	18.32
	50 (RB_Pos:0)	18.80	18.71	18.79	18.28	18.29	18.21
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20425	20525	20625	20425	20525	20625
5MHz	1 (RB_Pos:0)	18.86	18.65	18.66	18.64	18.57	18.70
	1 (RB_Pos:13)	18.70	18.66	18.70	18.53	18.59	18.77
	1 (RB_Pos:24)	18.74	18.66	18.82	18.63	18.55	18.92
	12 (RB_Pos:0)	18.66	18.66	18.56	18.15	18.27	18.13
	12 (RB_Pos:6)	18.68	18.66	18.55	18.19	18.21	18.13
	12 (RB_Pos:13)	18.75	18.56	18.58	18.28	18.16	18.14
	25 (RB_Pos:0)	18.67	18.62	18.68	18.20	18.25	18.25
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20415	20525	20635	20415	20525	20635
3.0 MHz	1 (RB_Pos:0)	18.69	18.74	18.68	18.55	18.65	18.45
	1 (RB_Pos:8)	18.64	18.77	18.76	18.67	18.71	18.53
	1 (RB_Pos:14)	18.65	18.71	18.77	18.44	18.84	18.55
	8 (RB_Pos:0)	18.69	18.67	18.78	18.21	18.27	18.32
	8 (RB_Pos:3)	18.53	18.62	18.87	18.06	18.28	18.36
	8 (RB_Pos:7)	18.57	18.53	18.89	18.12	18.22	18.20
	15 (RB_Pos:0)	18.55	18.66	18.76	18.12	18.21	18.28
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20407	20525	20643	20407	20525	20643
1.4MHz	1 (RB_Pos:0)	18.93	18.92	18.83	18.44	18.58	18.68
	1 (RB_Pos:3)	18.79	18.80	18.88	18.36	18.48	18.46
	1 (RB_Pos:5)	18.74	18.86	18.92	18.40	18.61	18.74
	3 (RB_Pos:0)	18.73	18.75	18.78	18.27	18.46	18.25
	3 (RB_Pos:1)	18.74	18.68	18.72	18.22	18.46	18.25
	3 (RB_Pos:3)	18.68	18.66	18.73	18.27	18.30	18.26
	6 (RB_Pos:0)	18.72	18.66	18.66	18.37	18.20	18.44

FDD LTE Band 7							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20850	21100	21350	20850	21100	21350
20MHz	1 (RB_Pos:0)	13.73	13.66	13.78	13.53	13.29	13.5
	1 (RB_Pos:49)	13.63	13.59	<b>13.88</b>	13.48	13.17	13.75
	1 (RB_Pos:99)	13.66	13.77	13.80	13.51	13.43	13.50
	50 (RB_Pos:0)	13.79	13.67	13.84	13.31	13.14	13.34
	50 (RB_Pos:24)	13.73	13.63	13.98	13.25	13.09	13.49
	50 (RB_Pos:49)	13.64	13.65	13.94	13.23	13.19	13.46
	100 (RB_Pos:0)	13.43	13.24	13.62	12.83	12.73	13.16
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20825	21100	21375	20825	21100	21375
15MHz	1 (RB_Pos:0)	13.74	13.57	13.82	13.4	13.24	13.38
	1 (RB_Pos:37)	13.73	13.52	13.89	13.47	13.11	13.47
	1 (RB_Pos:74)	13.56	13.62	13.74	13.28	13.35	13.32
	36 (RB_Pos:0)	13.75	13.65	13.98	13.32	13.15	13.51
	36 (RB_Pos:18)	13.73	13.64	13.97	13.27	13.16	13.52
	36 (RB_Pos:37)	13.65	13.68	13.95	13.21	13.24	13.50
	75 (RB_Pos:0)	13.32	13.16	13.51	12.74	12.64	13.04
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20800	21100	21400	20800	21100	21400
10MHz	1 (RB_Pos:0)	13.78	13.66	13.92	13.33	13.36	13.75
	1 (RB_Pos:24)	13.78	13.61	13.92	13.33	13.32	13.74
	1 (RB_Pos:49)	13.75	13.75	13.84	13.39	13.44	13.65
	25 (RB_Pos:0)	13.82	13.65	14.04	13.33	13.15	13.66
	25 (RB_Pos:12)	13.80	13.67	14.03	13.31	13.24	13.64
	25 (RB_Pos:24)	13.82	13.70	14.06	13.37	13.23	13.64
	50 (RB_Pos:0)	13.42	13.19	13.53	12.84	12.69	13.08
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20775	21100	21425	20775	21100	21425
5MHz	1 (RB_Pos:0)	13.81	13.56	13.88	13.27	13.37	13.59
	1 (RB_Pos:12)	13.75	13.60	13.85	13.32	13.40	13.58
	1 (RB_Pos:24)	13.80	13.65	13.81	13.35	13.42	13.53
	12 (RB_Pos:0)	13.67	13.61	13.93	13.14	13.07	13.44
	12 (RB_Pos:6)	13.73	13.63	13.91	13.13	13.14	13.41
	12 (RB_Pos:11)	13.75	13.61	13.85	13.17	13.17	13.27
	25 (RB_Pos:0)	13.22	13.15	13.45	12.72	12.69	12.86

FDD LTE Band 12							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	23060	23095	23130	23060	23095	23130
10MHz	1 (RB_Pos:0)	20.27	<b>20.48</b>	20.58	20.14	20.35	20.13
	1 (RB_Pos:25)	20.40	20.43	20.42	20.35	20.30	19.95
	1 (RB_Pos:49)	20.37	20.25	20.61	20.25	20.22	20.09
	25 (RB_Pos:0)	20.48	20.47	20.33	20.21	20.29	20.15
	25 (RB_Pos:12)	20.51	20.40	20.28	20.24	20.26	20.19
	25 (RB_Pos:25)	20.54	20.36	20.46	20.26	20.11	20.13
	50 (RB_Pos:0)	20.32	20.11	20.10	20.01	19.99	19.85
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	23035	23095	23155	23035	23095	23155
5MHz	1 (RB_Pos:0)	20.33	20.52	20.36	20.02	20.31	20.06
	1 (RB_Pos:13)	20.43	20.43	20.38	20.12	20.20	19.99
	1 (RB_Pos:24)	20.52	20.41	20.52	20.27	20.14	20.14
	12 (RB_Pos:0)	20.32	20.37	20.21	20.03	20.19	19.90
	12 (RB_Pos:6)	20.38	20.34	20.26	20.16	20.11	19.93
	12 (RB_Pos:13)	20.43	20.25	20.29	20.19	19.95	19.98
	25 (RB_Pos:0)	20.15	20.09	20.04	19.98	19.88	19.74
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	23025	23095	23165	23025	23095	23165
3.0MHz	1 (RB_Pos:0)	20.24	20.49	20.32	20.01	20.35	19.90
	1 (RB_Pos:8)	20.40	20.48	20.39	20.39	20.35	19.98
	1 (RB_Pos:14)	20.38	20.34	20.32	20.17	20.35	19.86
	8 (RB_Pos:0)	20.10	20.32	20.28	19.97	20.30	20.04
	8 (RB_Pos:3)	20.14	20.35	20.35	19.96	20.14	20.07
	8 (RB_Pos:7)	20.43	20.24	20.20	20.03	20.16	20.08
	15 (RB_Pos:0)	19.99	20.04	20.04	19.76	19.82	19.68
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	23017	23095	23173	23017	23095	23173
1.4MHz	1 (RB_Pos:0)	20.42	20.53	20.52	19.78	20.24	19.92
	1 (RB_Pos:3)	20.42	20.54	20.51	19.75	20.41	19.92
	1 (RB_Pos:5)	20.48	20.44	20.49	19.72	20.19	20.16
	3 (RB_Pos:0)	20.37	20.32	20.40	20.00	20.28	20.34
	3 (RB_Pos:1)	20.35	20.30	20.41	20.04	20.33	20.35
	3 (RB_Pos:3)	20.41	20.30	20.32	20.06	20.26	19.97
	6 (RB_Pos:0)	19.98	20.05	20.02	19.82	19.78	19.77

FDD LTE Band 13							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK		16QAM			
	Channel	23230		23230			
10MHz	1 (RB_Pos:0)	<b>20.04</b>		19.92			
	1 (RB_Pos:25)	19.86		19.71			
	1 (RB_Pos:49)	19.88		19.85			
	25 (RB_Pos:0)	20.05		19.99			
	25 (RB_Pos:12)	19.95		19.73			
	25 (RB_Pos:25)	19.94		19.65			
	50 (RB_Pos:0)	19.83		19.65			
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK		16QAM			
	Channel	23205	23230	23255	23205	23230	23255
5MHz	1 (RB_Pos:0)	19.96	20.12	19.96	19.74	20.10	19.79
	1 (RB_Pos:13)	20.08	19.88	19.86	19.91	19.74	19.74
	1 (RB_Pos:24)	19.91	19.88	20.00	19.71	19.84	19.95
	12 (RB_Pos:0)	20.13	19.85	19.89	19.69	19.64	19.56
	12 (RB_Pos:6)	20.08	19.84	19.75	19.64	19.56	19.48
	12 (RB_Pos:13)	19.96	19.97	19.80	19.65	19.60	19.55
	25 (RB_Pos:0)	19.88	19.67	19.62	19.62	19.42	19.25

FDD LTE Band 17							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK		16QAM			
	Channel	23780	23790	23800	23780	23790	23800
10MHz	1 (RB_Pos:0)	20.47	20.52	<b>20.58</b>	20.41	20.56	20.38
	1 (RB_Pos:25)	20.34	20.31	20.39	20.22	20.28	20.23
	1 (RB_Pos:49)	20.34	20.44	20.52	20.18	20.46	20.35
	25 (RB_Pos:0)	20.53	20.48	20.31	20.27	20.24	20.23
	25 (RB_Pos:12)	20.45	20.35	20.29	20.16	20.10	20.31
	25 (RB_Pos:25)	20.33	20.31	20.33	20.07	20.05	20.36
	50 (RB_Pos:0)	20.25	20.30	20.20	20.05	19.88	19.98
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK		16QAM			
	Channel	23755	23790	23825	23755	23790	23825
5MHz	1 (RB_Pos:0)	20.57	20.51	20.30	20.29	20.38	20.18
	1 (RB_Pos:13)	20.50	20.34	20.32	20.18	20.20	20.10
	1 (RB_Pos:24)	20.42	20.30	20.45	20.11	20.22	20.18
	12 (RB_Pos:0)	20.56	20.22	20.21	20.31	20.02	19.87
	12 (RB_Pos:6)	20.48	20.19	20.29	20.25	19.97	19.97
	12 (RB_Pos:13)	20.44	20.22	20.32	20.28	19.91	20.10
	25 (RB_Pos:0)	20.26	20.09	20.11	19.99	19.82	19.74

FDD LTE Band 26							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	26765	26865	26965	26765	26865	26965
15MHz	1 (RB_Pos:0)	18.27	18.48	18.56	18.27	18.32	18.06
	1 (RB_Pos:37)	18.50	18.55	18.52	18.50	18.36	18.08
	1 (RB_Pos:74)	18.36	18.60	<b>18.62</b>	18.27	18.54	18.03
	36 (RB_Pos:0)	18.54	18.43	18.53	18.29	18.22	18.33
	36 (RB_Pos:18)	18.49	18.53	18.55	18.25	18.30	18.27
	36 (RB_Pos:37)	18.33	18.52	18.57	18.03	18.30	18.33
	75 (RB_Pos:0)	18.26	18.48	18.23	17.94	18.12	17.98
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	26740	26865	26990	26740	26865	26990
10MHz	1 (RB_Pos:0)	18.27	18.49	18.75	17.99	18.30	18.15
	1 (RB_Pos:24)	18.45	18.54	18.65	18.25	18.37	18.03
	1 (RB_Pos:49)	18.49	18.65	18.83	18.18	18.50	18.19
	25 (RB_Pos:0)	18.57	18.61	18.61	18.31	18.38	18.34
	25 (RB_Pos:12)	18.56	18.63	18.60	18.35	18.42	18.28
	25 (RB_Pos:24)	18.59	18.68	18.55	18.35	18.44	18.31
	50 (RB_Pos:0)	18.31	18.33	18.37	18.09	18.13	18.15
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	26715	26865	27015	26715	26865	27015
5MHz	1 (RB_Pos:0)	18.38	18.58	18.57	18.00	18.30	18.28
	1 (RB_Pos:12)	18.52	18.59	18.58	18.21	18.35	18.34
	1 (RB_Pos:24)	18.67	18.70	18.77	18.35	18.48	18.56
	12 (RB_Pos:0)	18.31	18.62	18.53	18.10	18.29	18.17
	12 (RB_Pos:6)	18.44	18.66	18.47	18.25	18.32	18.16
	12 (RB_Pos:11)	18.50	18.60	18.47	18.30	18.34	18.21
	25 (RB_Pos:0)	18.19	18.32	18.36	17.99	18.10	17.97
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	26705	26865	27025	26705	26865	27025
3.0MHz	1 (RB_Pos:0)	18.28	18.59	18.58	18.25	18.15	18.37
	1 (RB_Pos:7)	18.41	18.67	18.70	18.42	18.43	18.56
	1 (RB_Pos:14)	18.48	18.68	18.75	18.36	18.30	18.35
	8 (RB_Pos:0)	18.38	18.50	18.62	18.11	18.24	18.38
	8 (RB_Pos:4)	18.38	18.57	18.68	18.10	18.30	18.41
	8 (RB_Pos:7)	18.52	18.58	18.47	18.21	18.37	18.45
	15 (RB_Pos:0)	18.12	18.31	18.36	17.75	18.03	17.96
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	26697	26865	27033	26697	26865	27033
1.4MHz	1 (RB_Pos:0)	18.39	18.61	18.72	17.86	18.19	18.58

	1 (RB_Pos:2)	18.45	18.59	18.71	18.01	18.17	18.56
	1 (RB_Pos:5)	18.40	18.53	18.77	17.93	18.21	18.60
	3 (RB_Pos:0)	18.27	18.56	18.60	18.14	18.18	18.59
	3 (RB_Pos:1)	18.23	18.53	18.51	18.22	18.18	18.43
	3 (RB_Pos:2)	18.31	18.54	18.53	18.20	18.30	18.59
	6 (RB_Pos:0)	18.02	18.25	18.27	18.01	18.14	17.92

FDD LTE Band 30							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK		16QAM			
	Channel	27710		27710			
10MHz	1 (RB_Pos:0)	13.25		13.17			
	1 (RB_Pos:25)	13.28		13.17			
	1 (RB_Pos:49)	<b>13.42</b>		13.32			
	25 (RB_Pos:0)	13.38		13.09			
	25 (RB_Pos:12)	13.41		13.16			
	25 (RB_Pos:25)	13.36		13.14			
	50 (RB_Pos:0)	13.31		13.04			
	Bandwidth (MHz)	RB Set	Power (dBm)				
			QPSK		16QAM		
	Channel	27685	27710	27735	27685	27710	27735
5MHz	1 (RB_Pos:0)	13.52	13.31	13.39	13.29	13.16	13.26
	1 (RB_Pos:13)	13.36	13.34	13.27	13.14	13.17	13.17
	1 (RB_Pos:24)	13.44	13.18	13.44	13.28	13.06	13.41
	12 (RB_Pos:0)	13.36	13.32	13.44	13.19	12.93	13.12
	12 (RB_Pos:6)	13.36	13.40	13.40	13.10	12.98	13.02
	12 (RB_Pos:13)	13.41	13.40	13.54	13.09	12.95	13.14
	25 (RB_Pos:0)	13.08	13.26	13.12	12.76	12.86	12.82

FDD LTE Band 41											
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK					16QAM				
	Channel	39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
20MHz	1 (RB_Pos:0)	15.78	15.77	16.00	<b>16.01</b>	15.88	15.60	15.68	15.53	16.00	15.65
	1 (RB_Pos:50)	15.76	15.82	15.85	<b>16.10</b>	15.79	15.67	15.73	15.42	16.13	15.59
	1 (RB_Pos:99)	15.74	15.92	15.74	16.08	15.78	15.67	15.85	15.31	16.06	15.59
	50 (RB_Pos:0)	15.62	15.68	15.77	16.05	15.85	15.30	15.41	15.51	15.78	15.55
	50 (RB_Pos:25)	15.63	15.75	15.71	16.15	15.80	15.32	15.47	15.45	15.87	15.48
	50 (RB_Pos:50)	15.62	15.79	15.63	16.15	15.78	15.29	15.51	15.40	15.87	15.46
	100 (RB_Pos:0)	15.46	15.59	15.46	15.97	15.58	15.23	15.24	15.19	15.72	15.43
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK					16QAM				
	Channel	39725	40160	40620	41080	41515	39725	40160	40620	41080	41515
15MHz	1 (RB_Pos:0)	15.49	15.63	15.96	16.03	15.82	14.95	15.24	15.56	15.84	15.40
	1 (RB_Pos:38)	15.52	15.64	15.84	16.12	15.73	14.99	15.26	15.46	15.95	15.32
	1 (RB_Pos:74)	15.56	15.73	15.72	16.05	15.63	15.06	15.33	15.34	15.85	15.26
	36 (RB_Pos:0)	15.61	15.66	15.79	16.15	15.82	15.34	15.44	15.57	15.87	15.61
	36 (RB_Pos:20)	15.62	15.69	15.76	16.20	15.74	15.36	15.48	15.54	15.93	15.54
	36 (RB_Pos:39)	15.62	15.74	15.68	16.17	15.70	15.40	15.54	15.47	15.90	15.49
	75 (RB_Pos:0)	15.37	15.46	15.51	15.96	15.57	15.10	15.20	15.25	15.63	15.30
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK					16QAM				
	Channel	39700	40135	40620	41105	41540	39700	40135	40620	41105	41540
10MHz	1 (RB_Pos:0)	15.52	15.62	15.80	16.15	15.83	15.26	15.51	15.55	15.88	15.82
	1 (RB_Pos:25)	15.54	15.63	15.73	16.11	15.75	15.31	15.50	15.47	15.82	15.76
	1 (RB_Pos:49)	15.60	15.70	15.71	16.09	15.71	15.38	15.57	15.45	15.80	15.72
	25 (RB_Pos:0)	15.56	15.68	15.83	16.25	15.85	15.24	15.43	15.60	15.92	15.62
	25 (RB_Pos:12)	15.58	15.68	15.77	16.24	15.81	15.30	15.44	15.54	15.90	15.61
	25 (RB_Pos:25)	15.58	15.71	15.71	16.25	15.82	15.31	15.45	15.49	15.90	15.60
	50 (RB_Pos:0)	15.38	15.44	15.57	15.99	15.57	15.12	15.24	15.27	15.81	15.44
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK					16QAM				
	Channel	39675	40110	40620	41130	41565	39675	40110	40620	41130	41565
5MHz	1 (RB_Pos:0)	15.45	15.74	15.79	16.13	15.88	15.40	15.63	15.31	16.12	15.65
	1 (RB_Pos:13)	15.39	15.76	15.76	16.08	15.82	15.35	15.65	15.28	16.09	15.61
	1 (RB_Pos:24)	15.51	15.82	15.75	16.06	15.82	15.46	15.70	15.26	16.05	15.59
	12 (RB_Pos:0)	15.43	15.67	15.72	16.18	15.78	15.23	15.48	15.55	15.99	15.50
	12 (RB_Pos:6)	15.44	15.66	15.70	16.16	15.75	15.23	15.47	15.55	15.97	15.48
	12 (RB_Pos:13)	15.47	15.67	15.72	16.12	15.76	15.25	15.48	15.55	15.92	15.48
	25 (RB_Pos:0)	15.29	15.48	15.53	15.96	15.60	14.97	15.18	15.29	15.69	15.29

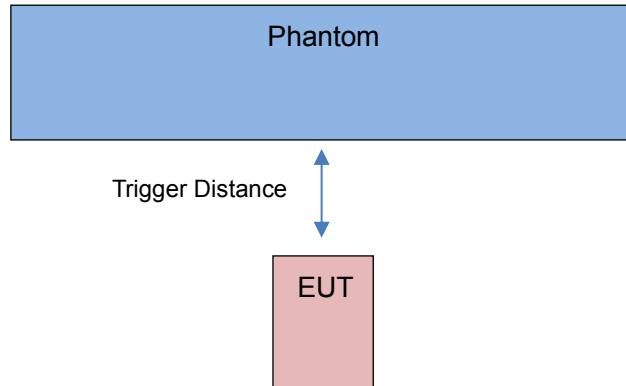
FDD LTE Band 66							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	132072	132322	132572	132072	132322	132572
20MHz	1 (RB_Pos:0)	12.89	12.96	13.17	12.60	12.80	12.91
	1 (RB_Pos:49)	12.95	12.93	12.94	12.80	12.68	12.52
	1 (RB_Pos:99)	12.94	13.18	13.07	12.65	13.11	12.84
	50 (RB_Pos:0)	12.98	12.90	13.03	12.58	12.55	12.64
	50 (RB_Pos:24)	12.94	12.88	12.93	12.57	12.53	12.55
	50 (RB_Pos:49)	12.85	13.04	12.92	12.50	12.68	12.54
	100 (RB_Pos:0)	12.83	12.90	12.91	12.58	12.64	12.72
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	132047	132322	132597	132047	132322	132597
15MHz	1 (RB_Pos:0)	12.85	13.02	13.01	12.73	12.72	13.03
	1 (RB_Pos:37)	12.98	13.00	12.73	12.84	12.61	12.79
	1 (RB_Pos:74)	12.90	13.13	13.11	12.83	12.84	13.19
	36 (RB_Pos:0)	12.96	12.75	12.96	12.54	12.40	12.55
	36 (RB_Pos:18)	12.91	12.87	12.79	12.60	12.46	12.50
	36 (RB_Pos:37)	12.90	12.93	12.86	12.59	12.59	12.73
	75 (RB_Pos:0)	12.84	12.70	12.87	12.54	12.42	12.49
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	132022	132322	132622	132022	132322	132622
10MHz	1 (RB_Pos:0)	12.84	12.88	13.02	12.77	12.73	12.92
	1 (RB_Pos:24)	12.94	12.94	13.05	12.92	12.76	12.91
	1 (RB_Pos:49)	13.03	13.10	13.33	12.97	12.93	13.29
	25 (RB_Pos:0)	12.87	12.70	12.85	12.44	12.38	12.58
	25 (RB_Pos:12)	12.85	12.78	12.96	12.41	12.46	12.63
	25 (RB_Pos:24)	12.90	12.80	13.10	12.44	12.50	12.76
	50 (RB_Pos:0)	12.76	12.64	12.93	12.41	12.37	12.53
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	131997	132322	132647	131997	132322	132647
5MHz	1 (RB_Pos:0)	12.84	12.70	13.00	12.61	12.57	12.90
	1 (RB_Pos:12)	12.92	12.73	13.03	12.71	12.55	13.01
	1 (RB_Pos:24)	12.94	12.79	13.23	12.81	12.67	13.21
	12 (RB_Pos:0)	12.53	12.68	12.71	12.22	12.14	12.28
	12 (RB_Pos:6)	12.60	12.69	12.78	12.28	12.17	12.31
	12 (RB_Pos:11)	12.62	12.75	12.84	12.32	12.18	12.41
	25 (RB_Pos:0)	12.59	12.64	12.83	12.27	12.20	12.42
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	131987	132322	132657	131987	132322	132657
3.0MHz	1 (RB_Pos:0)	12.77	12.93	13.19	12.61	13.12	13.09

	1 (RB_Pos:7)	12.82	13.02	12.78	12.68	13.19	13.18
	1 (RB_Pos:14)	12.73	12.93	12.81	12.41	12.64	12.80
	8 (RB_Pos:0)	12.52	12.60	12.75	12.41	12.20	12.58
	8 (RB_Pos:4)	12.56	12.60	12.80	12.45	12.23	12.66
	8 (RB_Pos:7)	12.73	12.58	13.00	12.15	12.23	12.71
	15 (RB_Pos:0)	12.47	12.51	12.77	12.08	12.32	12.57
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	131979	132322	132665	131979	132322	132665
1.4MHz	1 (RB_Pos:0)	13.06	12.95	13.18	12.58	12.64	12.59
	1 (RB_Pos:2)	12.65	12.91	13.16	12.56	12.68	12.62
	1 (RB_Pos:5)	12.79	12.93	13.00	12.67	12.38	12.81
	3 (RB_Pos:0)	12.65	12.61	12.93	12.29	12.77	12.59
	3 (RB_Pos:1)	12.63	12.70	12.84	12.29	12.85	12.63
	3 (RB_Pos:2)	12.67	12.69	12.82	12.27	12.85	13.25
	6 (RB_Pos:0)	12.32	12.57	12.79	11.91	12.05	12.72

## 9 Proximity Sensor Triggering Test

### 9.1.1 Procedures for determining proximity sensor distance (KDB 616217 D04 section 6.2)

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment.



Distance in mm	0-10	11	12	13	14	15	16	17	18
Back Side	On	On	On	On	On	On	On	Off	Off
Left Edge	Off	Off	Off	Off	Off	Off	Off	Off	Off
Top Edge	On	On	On	On	On	On	On	Off	Off
Bottom Edge	Off	Off	Off	Off	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for 3G/ 4G.

Distance in mm	0-5	6	7	8	9	10	11	12	13
Right Edge	On	On	Off						

Note: Power reduction is only applicable for 3G/ 4G.

### 9.1.2 Proximity Sensor Triggering Coverage (KDB 616217 D04 section 6.3)

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved "along the direction of maximum antenna and sensor offset". Illustrated in the internal photo exhibit, although the sensor is spatially offset, there is no trigger condition where the antenna is next to the user but the sensor is laterally further away, therefore proximity sensor coverage testing is not required.

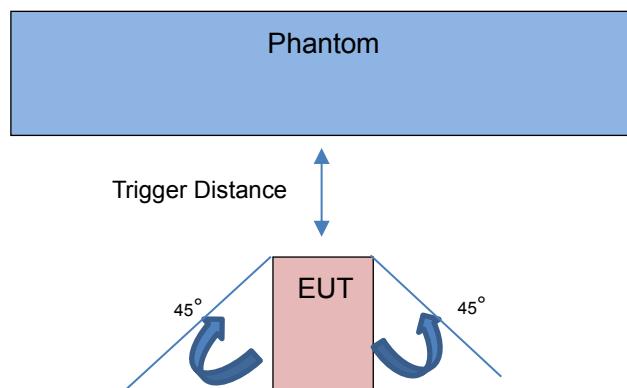
This procedure is not required for this device because antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

### 9.1.3 Procedures for determining tablet tilt angle influences to proximity sensor triggering(KDB 616217 D04 section 6.4)

According to the procedures noticed in KDB 616217 D04 section and 6.2 and 6.3, the proximity sensor triggering distance is 16 mm for top edge and 6 mm for right edge. The separation distance of 6 mm determined by the smallest triggering distance on right edge is used to access the tilt angle influence and the sensor does not release

during  $\pm 45$  degree.

Rotating the tablet around the edge next to the phantom in  $\leq 10^\circ$  increments until the tablet is  $\pm 45^\circ$  from the vertical position at  $0^\circ$ , and the maximum output power remains in the reduced mode.



Position	Distance (mm)	-45°	-40°	-35°	-20°	-10°	0°	10°	20°	35°	40°	45°
Right Edge	6	On	On	On	On	On	On	On	On	On	On	On
Top Edge	16	On	On	On	On	On	On	On	On	On	On	On

Note: Power reduction is only applicable for 3G/ 4G.

**For verification of compliance of power reduction scheme, additional SAR test with EUT transmitting at full RF power at a separation of “the triggering distance – 1 mm”**

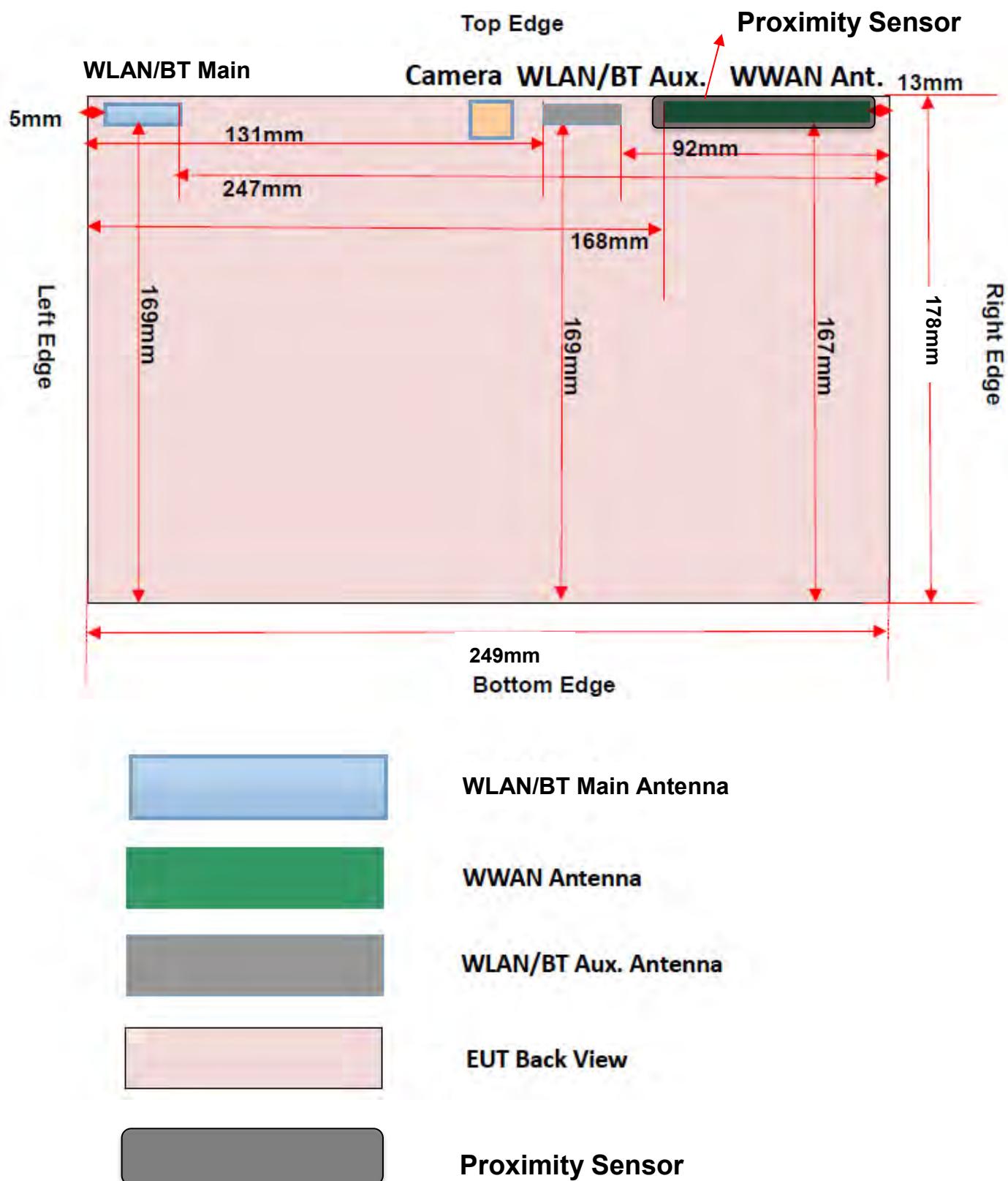
EUT Sides	Additional SAR test Distance in mm
Back Side	15
Right Edge	5
Top Edge	15

Note:

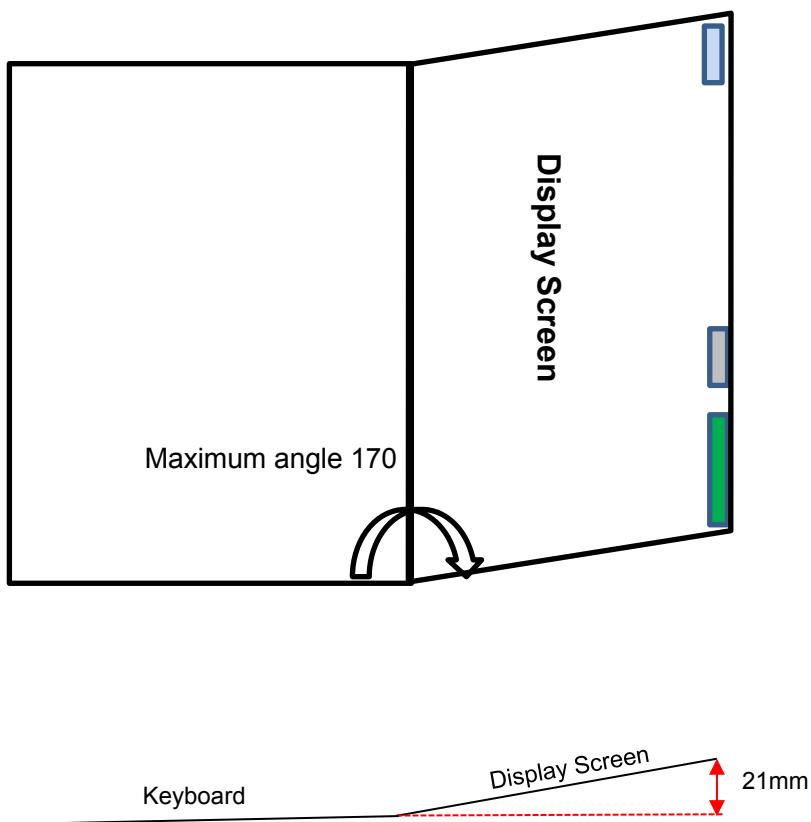
When the proximity sensor is broken and out of functioning, the device will work according as the mechanism that the default power changes to the reduced power level, which is same as the proximity sensor works actively, so the device will remain at the compliance level (under 1.6 W/kg) according to the SAR test report.

## 10 TEST EXCLUSION CONSIDERATION

### 10.1 Tablet Mode antenna location sketch



## 10.2 Laptop Mode antenna location sketch



### Note:

When open laptop display screen and used on human body, the maximum swivel angle between keyboard and display screen is 170, and the nearest distance between human body and display is 21mm.

Measurements for the tablet condition were conducted with the side of the device in direct contact with the phantom on power reduction mode, and test distance at 15mm or 5mm on full power mode.

Therefore, the requirements mentioned in RSS-102 Supplementary Procedures (SPR)-001 SAR testing requirements with regards to bystanders for laptop type computers with antennas built-in on display screen laptop mode are covered. So laptop SAR test is not required.

## 10.3 SAR Test Exclusion Consideration Table

### 10.3.1 Table mode SAR Test Exclusion Consideration for WWAN

Band	Mode	Max. Power		Test Position Configurations				
		dBm	mW	Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge
WCDMA Band 2	Distance to User			5mm	168mm	13mm	<5mm	167mm
	RMC	24.00	251.19	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			5mm	168mm	13mm	<5mm	167mm
	RMC	24.00	251.19	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			5mm	168mm	13mm	<5mm	167mm
	RMC	24.00	251.19	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			5mm	168mm	13mm	<5mm	167mm
	RMC	23.00	199.53	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.00	199.53	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.50	223.87	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.00	199.53	Yes	No	Yes	Yes	No
LTE Band 13	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.50	223.87	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.00	199.53	Yes	No	Yes	Yes	No
LTE Band 30	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.50	223.87	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.00	199.53	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			5mm	168mm	13mm	<5mm	167mm
	QPSK	23.50	223.87	Yes	No	Yes	Yes	No

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D01, 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:  

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
  - a. f(GHz) is the RF channel transmit frequency in GHz
  - b. Power and distance are rounded to the nearest mW and mm before calculation
  - c. The result is rounded to one decimal place for comparison

d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

This formula is  $[3.0] / [\sqrt{f(\text{GHz})}] \cdot [(\text{min. test separation distance, mm})]$  = exclusion threshold of mW.

5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
  - a.  $[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$ , at 100 MHz to 1500 MHz
  - b.  $[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$  at > 1500 MHz and  $\leq 6 \text{ GHz}$
6. Per KDB 941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4 \text{ dB}$  higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2 \text{ W/kg}$ , SAR measurement is not required for the secondary mode.
7. Per KDB 941225 D05, SAR test reduction is applied using the following criteria:
  - a. Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
  - b. When the reported SAR is  $> 0.8 \text{ W/kg}$ , testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
  - c. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are  $> 0.8 \text{ W/kg}$ . Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation  $< 1.45 \text{ W/kg}$ .
  - d. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is  $< 1.45 \text{ W/Kg}$  and its output power is not more than 0.5 dB higher than that of QPSK.
  - e. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is  $< 1.45 \text{ W/Kg}$  and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

### 10.3.2 Table mode SAR Test Exclusion Consideration for WLAN (Intel 3165D2W)

Aux. Antenna

Band	Mode	Max. Conducted Power		Test Position Configurations				
				Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge
		dBm	mW					
Distance to User (mm)			5.0mm	131mm	92mm	<5.0mm	168mm	
WLAN 2.4 G			SAR Test Required					
	Exclusion Threshold			10.0	906.0	516.0	10.0	1276.0
	802.11b	15.00	31.62	Yes	Yes	Yes	Yes	No
	802.11g	15.00	31.62	No	No	No	No	No
	802.11n(HT20)	15.00	31.62	No	No	No	No	No
	802.11n(HT40)	15.00	31.62	No	No	No	No	No
	Exclusion Threshold			13.5	872.0	482.0	13.5	1242.0
WLAN 5.2 G	802.11a	14.50	28.18	No	No	No	No	No
	802.11n(HT20)	14.50	28.18	No	No	No	No	No
	802.11n(HT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT80)	14.50	28.18	No	No	No	No	No
	Exclusion Threshold			13.5	872.0	482.0	13.5	1242.0
WLAN 5.3G	802.11a	14.50	28.18	No	No	No	No	No
	802.11n(HT20)	14.50	28.18	No	No	No	No	No
	802.11n(HT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	Yes	Yes	No
	Exclusion Threshold			13.5	872.0	482.0	13.5	1242.0
WLAN 5.6 G	802.11a	14.50	28.18	No	No	No	No	No
	802.11n(HT20)	14.50	28.18	No	No	No	No	No
	802.11n(HT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	Yes	Yes	No
	Exclusion Threshold			13.5	872.0	482.0	13.5	1242.0
WLAN 5.8 G	802.11a	14.50	28.18	No	No	No	No	No
	802.11n(HT20)	14.50	28.18	No	No	No	No	No
	802.11n(HT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	Yes	Yes	No
	Exclusion Threshold			1.3	905.0	515.0	1.3	1275.0
Bluetooth	BR/EDR	6.50	4.47	Yes	Yes	Yes	Yes	No
	BLE	5.00	3.16	No	No	No	No	No

## Main Antenna

Band	Mode	Max. Conducted Power		Test Position Configurations						
		dBm	mW	Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge		
		Distance to User (mm)		5.0mm	5.0mm	247mm	<5.0mm	169mm		
WLAN 2.4 G	SAR Test Required									
	Exclusion Threshold			10.0	10.0	2066.0	10.0	1286.0		
	802.11b	15.00	31.62	Yes	Yes	No	Yes	No		
	802.11g	15.00	31.62	No	No	No	No	No		
	802.11n(HT20)	15.00	31.62	No	No	No	No	No		
	802.11n(HT40)	15.00	31.62	No	No	No	No	No		
	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		
	802.11n(HT20)	14.50	28.18	No	No	No	No	No		
	802.11n(HT40)	14.50	28.18	No	No	No	No	No		
WLAN 5.2 G	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	No	Yes	No		
	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		
	802.11n(HT20)	14.50	28.18	No	No	No	No	No		
	802.11n(HT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	No	Yes	No		
WLAN 5.3G	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		
	802.11n(HT20)	14.50	28.18	No	No	No	No	No		
	802.11n(HT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	No	Yes	No		
	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		
	802.11n(HT20)	14.50	28.18	No	No	No	No	No		
WLAN 5.6 G	802.11n(HT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	No	Yes	No		
	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		
	802.11n(HT20)	14.50	28.18	No	No	No	No	No		
	802.11n(HT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No		
WLAN 5.8 G	802.11ac(VHT80)	14.50	28.18	Yes	Yes	No	Yes	No		
	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		
	802.11n(HT20)	14.50	28.18	No	No	No	No	No		
	802.11n(HT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT20)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT40)	14.50	28.18	No	No	No	No	No		
	802.11ac(VHT80)	14.50	28.18	Yes	Yes	No	Yes	No		
	Exclusion Threshold			13.5	13.5	2032.0	13.5	1252.0		
	802.11a	14.50	28.18	No	No	No	No	No		

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units

2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D01, 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:  
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
  - a. f(GHz) is the RF channel transmit frequency in GHz
  - b. Power and distance are rounded to the nearest mW and mm before calculation
  - c. The result is rounded to one decimal place for comparison
  - d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
  - a. [Threshold at 50 mm in step 1] + (test separation distance - 50 mm)·( f(MHz)/150)] mW, at 100 MHz to 1500 MHz
  - b. [Threshold at 50 mm in step 1] + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
  - f. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
  - g. 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.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
  - a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
  - b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

### 10.3.3 Table mode SAR Test Exclusion Consideration for WLAN (Intel 8265D2W)

Aux. Antenna

Band	Mode	Max. Conducted Power		Test Position Configurations				
				Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge
		dBm	mW					
Distance to User (mm)			5.0mm	131mm	92mm	<5.0mm	168mm	
WLAN 2.4 G			SAR Test Required					
	Exclusion Threshold			10.0	906.0	516.0	10.0	1276.0
	802.11b	15.00	31.62	Yes	Yes	Yes	Yes	No
	802.11g	15.00	31.62	No	No	No	No	No
	802.11n(HT20)	15.00	31.62	No	No	No	No	No
	802.11n(HT40)	15.00	31.62	No	No	No	No	No
	Exclusion Threshold			10.6	872.0	482.0	10.6	1242.0
WLAN 5.2 G	802.11a	13.50	22.39	No	No	No	No	No
	802.11n(HT20)	13.50	22.39	No	No	No	No	No
	802.11n(HT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT80)	13.50	22.39	No	No	No	No	No
	Exclusion Threshold			10.6	872.0	482.0	10.6	1242.0
WLAN 5.3G	802.11a	13.50	22.39	No	No	No	No	No
	802.11n(HT20)	13.50	22.39	No	No	No	No	No
	802.11n(HT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT80)	13.50	22.39	Yes	Yes	Yes	Yes	No
	Exclusion Threshold			10.6	872.0	482.0	10.6	1242.0
WLAN 5.6 G	802.11a	13.50	22.39	No	No	No	No	No
	802.11n(HT20)	13.50	22.39	No	No	No	No	No
	802.11n(HT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT80)	13.50	22.39	Yes	Yes	Yes	Yes	No
	Exclusion Threshold			10.6	872.0	482.0	10.6	1242.0
WLAN 5.8 G	802.11a	13.50	22.39	No	No	No	No	No
	802.11n(HT20)	13.50	22.39	No	No	No	No	No
	802.11n(HT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No
	802.11ac(VHT80)	13.50	22.39	Yes	Yes	Yes	Yes	No

## Main Antenna

Band	Mode	Max. Conducted Power		Test Position Configurations						
		dBm	mW	Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge		
		Distance to User (mm)		5.0mm	5.0mm	247mm	<5.0mm	169mm		
SAR Test Required										
WLAN 2.4 G	Exclusion Threshold			10.0	10.0	2066.0	10.0	1286.0		
	802.11b	15.00	31.62	Yes	Yes	No	Yes	No		
	802.11g	15.00	31.62	No	No	No	No	No		
	802.11n(HT20)	15.00	31.62	No	No	No	No	No		
	802.11n(HT40)	15.00	31.62	No	No	No	No	No		
WLAN 5.2 G	Exclusion Threshold			10.6	106	2032.0	10.6	1252.0		
	802.11a	13.50	22.39	No	No	No	No	No		
	802.11n(HT20)	13.50	22.39	No	No	No	No	No		
	802.11n(HT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT80)	13.50	22.39	No	No	No	No	No		
WLAN 5.3G	Exclusion Threshold			10.6	106	2032.0	10.6	1252.0		
	802.11a	13.50	22.39	No	No	No	No	No		
	802.11n(HT20)	13.50	22.39	No	No	No	No	No		
	802.11n(HT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT80)	13.50	22.39	Yes	Yes	No	Yes	No		
WLAN 5.6 G	Exclusion Threshold			10.6	106	2032.0	10.6	1252.0		
	802.11a	13.50	22.39	No	No	No	No	No		
	802.11n(HT20)	13.50	22.39	No	No	No	No	No		
	802.11n(HT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT80)	13.50	22.39	Yes	Yes	No	Yes	No		
WLAN 5.8 G	Exclusion Threshold			10.6	106	2032.0	10.6	1252.0		
	802.11a	13.50	22.39	No	No	No	No	No		
	802.11n(HT20)	13.50	22.39	No	No	No	No	No		
	802.11n(HT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT20)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT40)	13.50	22.39	No	No	No	No	No		
	802.11ac(VHT80)	13.50	22.39	Yes	Yes	No	Yes	No		
Bluetooth	Exclusion Threshold			5.0	5.0	2065.0	5.0	1285.0		
	BR/EDR	12.00	15.85	Yes	Yes	No	Yes	No		
	BLE	5.00	3.16	No	No	No	No	No		