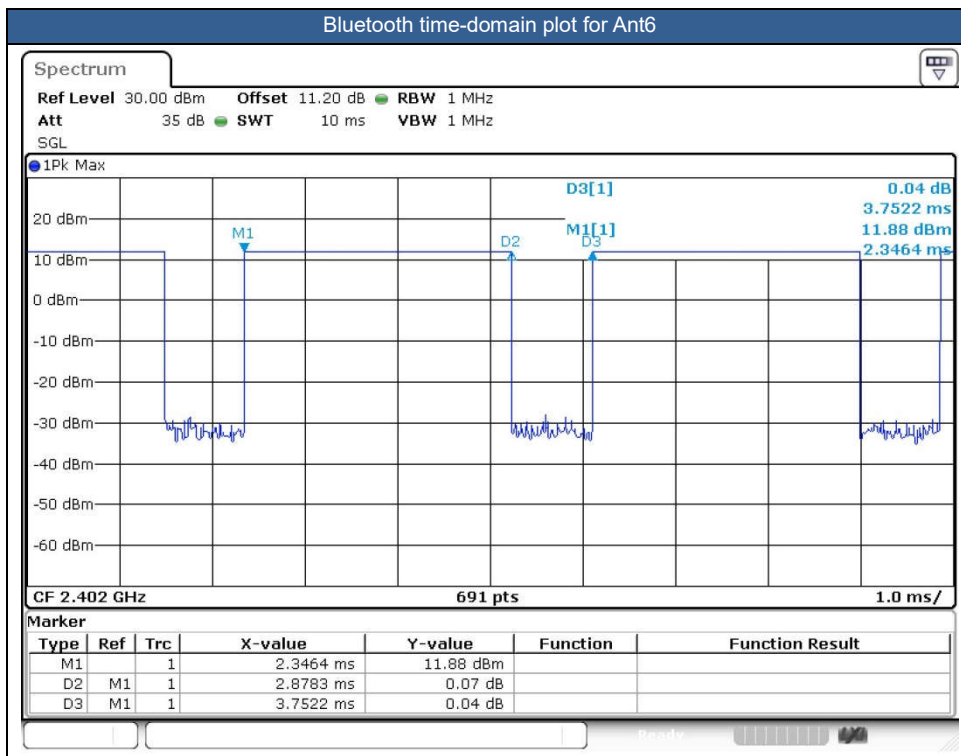
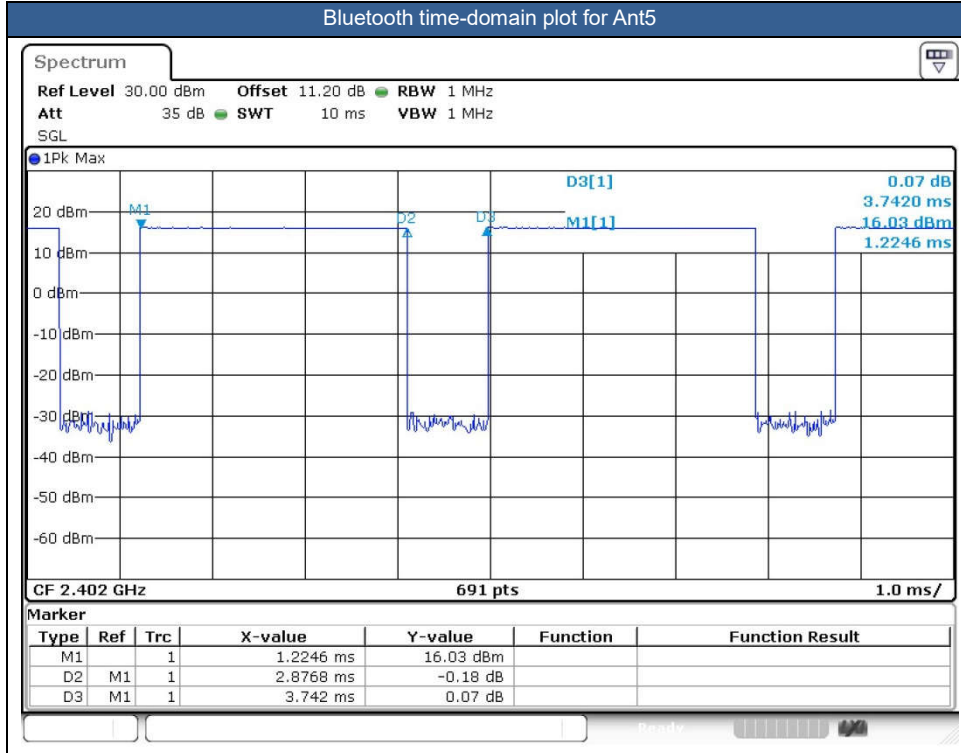




<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.88% for Ant5, and 76.71% for Ant6 as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation





15. Antenna Location

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

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 BT/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 BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement of power class 3, 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 (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - f. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = 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 when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. For WLAN/BT transmitter, while the device WLAN is transmitting simultaneously with the WWAN antenna, the device power will be reduced power at head, body-worn, hotspot and extremity conditions.
6. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
7. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
8. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
9. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2 W/kg of GSM850, WCDMA Band II/IV/V, LTE Band 2/4/5/7/12/17/25/26/30/38/41/48/66/71, 5G NR n2/n5/n7/n12/n25/n30/n66/n71/n38/n41/n77, WLAN5.2GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
10. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially

separated, the scaling factor is determined from the worst number of each transmit chain.

11. Although the distance 1gSAR is greater than 0.8 W/kg at body-worn exposure conditions, the distance SAR verified the worst of the non-distance SAR and less than non-distance SAR, so there is no need to be tested other channels.
12. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
13. The following table "n/a" in the result means the SAR cube is too small to be found.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE / DTM 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.
2. Other configurations of GSM / GPRS / EDGE / DTM 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 $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA 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 (HSDPA / HSUPA / 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/64QAM/256QAM output power for each RB allocation configuration is $>$ 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/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ 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 / B12 / B17 / B26 / B38 / B71 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 B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; 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 /n12/n41/n66/n71/n38/n41/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/Bluetooth 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 closest/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. For 802.11ax has full tone RU configuration and partial tone RU configuration, only chose full tone RU configuration to perform power testing for full RU with higher power, and no need to consider partial RU, full RU configuration SAR can represent partial RU.
7. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two SISO antennas respectively to calculate sum of the power for MIMO mode.
8. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz/WLAN6GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.



16.1 Head 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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 9/10	23095	707.5	23.44	24.50	1.276	-	-	-0.05	0.157	0.200
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 9/10	23095	707.5	23.44	24.50	1.276	-	-	0.17	0.108	0.138
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 9/10	23095	707.5	23.44	24.50	1.276	-	-	0.06	0.134	0.171
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 9/10	23095	707.5	23.44	24.50	1.276	-	-	-0.04	0.070	0.089
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 9/10	23095	707.5	22.46	23.50	1.271	-	-	0.15	0.132	0.168
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 9/10	23095	707.5	22.46	23.50	1.271	-	-	-0.12	0.092	0.117
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 9/10	23095	707.5	22.46	23.50	1.271	-	-	-0.08	0.087	0.111
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 9/10	23095	707.5	22.46	23.50	1.271	-	-	0.11	0.047	0.060
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 9	23095	707.5	21.11	22.00	1.227	-	-	0.07	0.617	0.757
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 9	23095	707.5	21.11	22.00	1.227	-	-	0.02	0.101	0.124
01	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	23095	707.5	21.11	22.00	1.227	-	-	-0.03	0.825	1.013
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 9	23095	707.5	21.11	22.00	1.227	-	-	0.13	0.111	0.136
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 10	23095	707.5	18.85	20.00	1.303	-	-	-0.06	0.515	0.671
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 9	23095	707.5	20.93	22.00	1.279	-	-	-0.05	0.467	0.597
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 9	23095	707.5	20.93	22.00	1.279	-	-	0.03	0.082	0.105
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 9	23095	707.5	20.93	22.00	1.279	-	-	0.19	0.788	1.008
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 9	23095	707.5	20.93	22.00	1.279	-	-	-0.04	0.102	0.130
	LTE Band 12	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 9	23095	707.5	20.86	22.00	1.300	-	-	0.09	0.770	1.001
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 9/10	133297	680.5	23.80	24.50	1.175	-	-	0.11	0.208	0.244
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 9/10	133297	680.5	23.80	24.50	1.175	-	-	-0.06	0.107	0.126
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 9/10	133297	680.5	23.80	24.50	1.175	-	-	0.06	0.084	0.099
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 9/10	133297	680.5	23.80	24.50	1.175	-	-	0.1	0.049	0.058
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 9/10	133297	680.5	22.56	23.50	1.242	-	-	-0.04	0.161	0.200
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 9/10	133297	680.5	22.56	23.50	1.242	-	-	-0.07	0.086	0.107
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 9/10	133297	680.5	22.56	23.50	1.242	-	-	0.14	0.065	0.081
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 9/10	133297	680.5	22.56	23.50	1.242	-	-	0.07	0.035	0.043
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 9	133297	680.5	21.26	22.00	1.186	-	-	0.12	0.612	0.726
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 9	133297	680.5	21.26	22.00	1.186	-	-	0.1	0.107	0.127
02	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	133297	680.5	21.26	22.00	1.186	-	-	-0.06	0.931	1.104
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 9	133297	680.5	21.26	22.00	1.186	-	-	-0.15	0.133	0.158
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 10	133297	680.5	19.23	20.00	1.194	-	-	0.01	0.603	0.720
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 9	133297	680.5	20.93	22.00	1.279	-	-	-0.16	0.639	0.818
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 9	133297	680.5	20.93	22.00	1.279	-	-	-0.13	0.111	0.142
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 9	133297	680.5	20.93	22.00	1.279	-	-	0.14	0.857	1.096
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 9	133297	680.5	20.93	22.00	1.279	-	-	0.03	0.135	0.173
	LTE Band 71	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 9	133297	680.5	20.88	22.00	1.294	-	-	0.01	0.621	0.804
	LTE Band 71	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 9	133297	680.5	20.88	22.00	1.294	-	-	0.01	0.845	1.094
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 9/10	141500	707.5	23.55	24.50	1.245	-	-	-0.04	0.163	0.203
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 9/10	141500	707.5	23.55	24.50	1.245	-	-	-0.11	0.103	0.128
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 9/10	141500	707.5	23.55	24.50	1.245	-	-	0.04	0.123	0.153
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 9/10	141500	707.5	23.55	24.50	1.245	-	-	0.05	0.061	0.076
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	DSI 9/10	141500	707.5	23.26	24.50	1.330	-	-	-0.09	0.152	0.202
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	DSI 9/10	141500	707.5	23.26	24.50	1.330	-	-	-0.15	0.099	0.132
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	DSI 9/10	141500	707.5	23.26	24.50	1.330	-	-	0.1	0.113	0.150
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	DSI 9/10	141500	707.5	23.26	24.50	1.330	-	-	0.03	0.058	0.077
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 9	141500	707.5	21.28	22.00	1.180	-	-	-0.04	0.564	0.666
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 9	141500	707.5	21.28	22.00	1.180	-	-	0.04	0.093	0.110
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 9	141500	707.5	21.28	22.00	1.180	-	-	0.01	0.816	0.963
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 9	141500	707.5	21.28	22.00	1.180	-	-	0.14	0.110	0.130
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 1	DSI 9	141500	707.5	21.18	22.00	1.208	-	-	0.05	0.509	0.615
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 1	DSI 9	141500	707.5	21.18	22.00	1.208	-	-	0.18	0.090	0.109



FCC SAR Test Report

Report No. : FA330214

Table with columns for test parameters (FR1 n12, 15M, QPSK, 36, 22, DFT-15, Left Cheek, 0mm, Ant 1, DSI 9, 141500, 707.5, 21.18, 22.00, 1.208, etc.) and SAR values (1.034, 0.136, 0.670, etc.). Includes a section for 835MHz with GSM850 and WCDMA V tests.



	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 9/10	26965	841.5	23.34	24.50	1.306	-	-	-0.08	0.158	0.206
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 9/10	26865	831.5	22.50	23.50	1.259	-	-	0.08	0.146	0.184
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 9/10	26865	831.5	22.50	23.50	1.259	-	-	0.02	0.082	0.103
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 9/10	26865	831.5	22.50	23.50	1.259	-	-	0.07	0.075	0.094
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 9/10	26865	831.5	22.50	23.50	1.259	-	-	-0.17	0.046	0.058
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 9	26865	831.5	20.05	21.00	1.245	-	-	-0.18	0.394	0.490
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 9	26865	831.5	20.05	21.00	1.245	-	-	0.07	0.069	0.086
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	26865	831.5	20.05	21.00	1.245	-	-	-0.16	0.721	0.897
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 9	26865	831.5	20.05	21.00	1.245	-	-	-0.04	0.088	0.110
07	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	26765	821.5	20.01	21.00	1.256	-	-	0.19	0.862	1.083
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	26965	841.5	20.03	21.00	1.250	-	-	0.09	0.806	1.008
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 10	26765	821.5	17.78	19.00	1.324	-	-	-0.07	0.536	0.710
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 9	26865	831.5	20.00	21.00	1.259	-	-	0.05	0.421	0.530
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 9	26865	831.5	20.00	21.00	1.259	-	-	0.13	0.079	0.099
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 9	26865	831.5	20.00	21.00	1.259	-	-	-0.18	0.756	0.952
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 9	26865	831.5	20.00	21.00	1.259	-	-	0.12	0.096	0.121
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 9	26765	821.5	19.96	21.00	1.271	-	-	-0.18	0.830	1.055
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 9	26965	841.5	19.99	21.00	1.262	-	-	0.04	0.789	0.996
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	DSI 9	26865	831.5	19.98	21.00	1.265	-	-	0.01	0.803	1.016
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 9/10	167300	836.5	23.55	24.50	1.245	-	-	0.11	0.193	0.240
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 9/10	167300	836.5	23.55	24.50	1.245	-	-	-0.01	0.113	0.141
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 9/10	167300	836.5	23.55	24.50	1.245	-	-	-0.08	0.103	0.128
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 9/10	167300	836.5	23.55	24.50	1.245	-	-	0.01	0.060	0.075
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 9/10	167300	836.5	23.25	24.50	1.334	-	-	-0.08	0.192	0.256
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 9/10	167300	836.5	23.25	24.50	1.334	-	-	0.03	0.107	0.143
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 9/10	167300	836.5	23.25	24.50	1.334	-	-	0.18	0.106	0.141
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 9/10	167300	836.5	23.25	24.50	1.334	-	-	-0.13	0.063	0.084
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 9	167300	836.5	19.78	20.50	1.180	-	-	0.07	0.377	0.445
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 9	167300	836.5	19.78	20.50	1.180	-	-	0.08	0.069	0.081
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 9	167300	836.5	19.78	20.50	1.180	-	-	-0.02	0.660	0.779
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 9	167300	836.5	19.78	20.50	1.180	-	-	-0.16	0.087	0.103
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 9	167300	836.5	19.52	20.50	1.253	-	-	0.06	0.419	0.525
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 9	167300	836.5	19.52	20.50	1.253	-	-	0.19	0.081	0.102
08	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 9	167300	836.5	19.52	20.50	1.253	-	-	-0.08	0.864	1.083
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI 9	167300	836.5	19.52	20.50	1.253	-	-	-0.02	0.107	0.134
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 10	167300	836.5	18.23	19.00	1.194	-	-	-0.17	0.581	0.694
	FR1 n5	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	Ant 1	DSI 9	167300	836.5	19.50	20.50	1.259	-	-	0.1	0.754	0.949
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 9	1413	1732.6	23.03	23.50	1.114	-	-	0.16	0.189	0.211
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 9	1413	1732.6	23.03	23.50	1.114	-	-	0.17	0.136	0.152
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 9	1413	1732.6	23.03	23.50	1.114	-	-	0.05	0.196	0.218
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 9	1413	1732.6	23.03	23.50	1.114	-	-	0.17	0.143	0.159
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 9	1312	1712.4	22.80	23.50	1.175	-	-	-0.11	0.212	0.249
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 9	1513	1752.6	23.02	23.50	1.117	-	-	-0.09	0.194	0.217
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	1413	1732.6	18.16	18.50	1.081	-	-	-0.13	0.940	1.017
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	DSI 9	1413	1732.6	18.16	18.50	1.081	-	-	0.14	0.368	0.398
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	DSI 9	1413	1732.6	18.16	18.50	1.081	-	-	-0.07	0.259	0.280
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	DSI 9	1413	1732.6	18.16	18.50	1.081	-	-	-0.04	0.161	0.174
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	1312	1712.4	18.13	18.50	1.089	-	-	0.07	0.929	1.012
09	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	1513	1752.6	18.15	18.50	1.084	-	-	-0.05	1.100	1.192
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 10	1513	1752.6	16.55	17.00	1.109	-	-	-0.02	0.781	0.866
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	132322	1745	22.87	23.50	1.156	-	-	0.04	0.153	0.177
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	132322	1745	22.87	23.50	1.156	-	-	-0.05	0.076	0.088
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	132322	1745	22.87	23.50	1.156	-	-	0.05	0.132	0.153
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	132322	1745	22.87	23.50	1.156	-	-	-0.14	0.089	0.103
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	132072	1720	22.62	23.50	1.225	-	-	0.02	0.159	0.195
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	132572	1770	22.83	23.50	1.167	-	-	-0.01	0.168	0.196



	LTE Band 66C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	132572 132374	1770 1750.2	22.09	23.50	1.384	-	-	0.03	0.113	0.156
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	132322	1745	22.61	23.50	1.227	-	-	0.06	0.120	0.147
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	132322	1745	22.61	23.50	1.227	-	-	0.15	0.057	0.070
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	132322	1745	22.61	23.50	1.227	-	-	0.04	0.104	0.128
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	132322	1745	22.61	23.50	1.227	-	-	0.1	0.070	0.086
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	132322	1745	17.25	18.00	1.189	-	-	0.19	0.942	1.120
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 9	132322	1745	17.25	18.00	1.189	-	-	-0.18	0.281	0.334
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 9	132322	1745	17.25	18.00	1.189	-	-	-0.12	0.220	0.261
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 9	132322	1745	17.25	18.00	1.189	-	-	-0.07	0.126	0.150
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	132072	1720	17.07	18.00	1.239	-	-	-0.03	0.872	1.080
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	132572	1770	17.12	18.00	1.225	-	-	0.19	0.864	1.058
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 10	132322	1745	15.83	16.50	1.167	-	-	0.09	0.677	0.790
	LTE Band 66C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	132322 132124	1745 1725	16.41	18.00	1.442	-	-	0.05	0.770	1.110
	LTE Band 66C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 10	132322 132124	1745 1725	15.08	16.50	1.387	-	-	0.02	0.569	0.789
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	132322	1745	17.13	18.00	1.222	-	-	-0.05	0.895	1.094
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 9	132322	1745	17.13	18.00	1.222	-	-	-0.16	0.284	0.347
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 9	132322	1745	17.13	18.00	1.222	-	-	-0.01	0.225	0.275
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 9	132322	1745	17.13	18.00	1.222	-	-	0.07	0.125	0.153
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	132072	1720	17.03	18.00	1.250	-	-	0.06	0.875	1.094
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	132572	1770	17.05	18.00	1.245	-	-	0.15	0.871	1.084
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 9	132322	1745	17.08	18.00	1.236	-	-	0.08	0.840	1.038
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	132322	1745	15.79	16.50	1.178	-	-	0.18	0.732	0.862
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	132322	1745	15.79	16.50	1.178	-	-	-0.08	0.815	0.960
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 9	132322	1745	15.79	16.50	1.178	-	-	-0.08	0.468	0.551
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 9	132322	1745	15.79	16.50	1.178	-	-	0.08	0.521	0.614
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	132072	1720	15.78	16.50	1.180	-	-	-0.16	0.713	0.842
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	132572	1770	15.76	16.50	1.186	-	-	0.03	0.768	0.911
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	132072	1720	15.78	16.50	1.180	-	-	0.06	0.769	0.908
10	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	132572	1770	15.76	16.50	1.186	-	-	0.1	0.996	1.181
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 10	132572	1770	14.68	15.50	1.208	-	-	0.01	0.723	0.873
	LTE Band 66C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	132572 132374	1770 1750.2	14.76	16.50	1.493	-	-	-0.03	0.790	1.179
	LTE Band 66C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 10	132572 132374	1770 1750.2	13.66	15.50	1.528	-	-	0.05	0.568	0.868
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	132322	1745	15.46	16.50	1.271	-	-	-0.11	0.748	0.950
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	132322	1745	15.46	16.50	1.271	-	-	-0.15	0.828	1.052
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 9	132322	1745	15.46	16.50	1.271	-	-	0.14	0.478	0.607
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 9	132322	1745	15.46	16.50	1.271	-	-	0.07	0.613	0.779
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	132072	1720	15.45	16.50	1.274	-	-	0.15	0.719	0.916
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	132572	1770	15.43	16.50	1.279	-	-	0.03	0.797	1.020
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	132072	1720	15.45	16.50	1.274	-	-	0.18	0.812	1.034
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	132572	1770	15.43	16.50	1.279	-	-	0.03	0.901	1.153
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 10	132572	1770	14.41	15.50	1.285	-	-	0.03	0.641	0.824
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 9	132322	1745	15.41	16.50	1.285	-	-	0.07	0.720	0.925
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 9	132322	1745	15.41	16.50	1.285	-	-	0.17	0.826	1.062
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	DSI 9	132322	1745	18.45	19.00	1.135	-	-	0.02	0.195	0.221
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	DSI 9	132322	1745	18.45	19.00	1.135	-	-	-0.15	0.094	0.107
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	132322	1745	18.45	19.00	1.135	-	-	0.11	0.857	0.973
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 9	132322	1745	18.45	19.00	1.135	-	-	0.06	0.315	0.358
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	132072	1720	18.28	19.00	1.180	-	-	0.05	0.831	0.981
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	132572	1770	18.27	19.00	1.183	-	-	0.1	0.990	1.171
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 10	132572	1770	16.29	17.00	1.178	-	-	0.01	0.562	0.662
	LTE Band 66C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	132572 132374	1770 1750.2	18.01	19.00	1.256	-	-	0.07	0.840	1.055
	LTE Band 66C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 10	132572 132374	1770 1750.2	16.04	17.00	1.247	-	-	0.11	0.511	0.637
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	DSI 9	132322	1745	18.41	19.00	1.146	-	-	-0.11	0.200	0.229
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	DSI 9	132322	1745	18.41	19.00	1.146	-	-	-0.14	0.100	0.115



FCC SAR Test Report

Report No. : FA330214

Table with columns for Band, Modulation, Power, etc. Includes rows for LTE Band 66 and FR1 n66, and a section for 1900MHz GSM1900.



FCC SAR Test Report

Report No. : FA330214

Table with columns for Test ID, Frequency, Modulation, Power, etc. Includes rows for GSM1900, WCDMA II, LTE Band 25, and FR1 n25. Some cells are highlighted in yellow.



FCC SAR Test Report

Report No. : FA330214

	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 3	DSI 9	376500	1882.5	16.85	18.00	1.303	-	-	0.15	0.219	0.285	
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 3	DSI 9	376500	1882.5	16.85	18.00	1.303	-	-	-0.16	0.121	0.158	
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	372000	1860	16.68	18.00	1.355	-	-	0.11	0.742	1.006	
15	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	381000	1905	16.41	18.00	1.442	-	-	0.03	0.717	1.034	
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 10	381000	1905	15.93	17.00	1.279	-	-	0.1	0.628	0.803	
	FR1 n25	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	376500	1882.5	16.77	18.00	1.327	-	-	0.15	0.646	0.857	
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	27710	2310	22.01	22.50	1.119	-	-	-0.18	0.123	0.138	
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	27710	2310	22.01	22.50	1.119	-	-	0.02	0.061	0.068	
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	27710	2310	22.01	22.50	1.119	-	-	0.08	0.122	0.137	
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	27710	2310	22.01	22.50	1.119	-	-	0.1	0.078	0.087	
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	27710	2310	21.78	22.50	1.180	-	-	-0.18	0.096	0.113	
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	27710	2310	21.78	22.50	1.180	-	-	-0.19	0.048	0.057	
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	27710	2310	21.78	22.50	1.180	-	-	0.18	0.095	0.112	
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	27710	2310	21.78	22.50	1.180	-	-	-0.14	0.061	0.072	
16	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	27710	2310	18.97	19.50	1.130	-	-	-0.1	1.030	1.164	
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 9	27710	2310	18.97	19.50	1.130	-	-	-0.05	0.312	0.352	
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 9	27710	2310	18.97	19.50	1.130	-	-	-0.1	0.426	0.481	
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 9	27710	2310	18.97	19.50	1.130	-	-	-0.16	0.208	0.235	
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 10	27710	2310	17.55	18.00	1.109	-	-	-0.09	0.570	0.632	
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 3	DSI 9	27710	2310	18.86	19.50	1.159	-	-	0.04	0.951	1.102	
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 3	DSI 9	27710	2310	18.86	19.50	1.159	-	-	-0.15	0.318	0.368	
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 3	DSI 9	27710	2310	18.86	19.50	1.159	-	-	0.1	0.433	0.502	
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 3	DSI 9	27710	2310	18.86	19.50	1.159	-	-	0.18	0.217	0.251	
	LTE Band 30	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	27710	2310	18.74	19.50	1.191	-	-	-0.17	0.925	1.102	
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 9/10	462000	2310	22.00	23.00	1.259	-	-	0.09	0.105	0.132	
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 9/10	462000	2310	22.00	23.00	1.259	-	-	-0.1	0.078	0.098	
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 9/10	462000	2310	22.00	23.00	1.259	-	-	-0.09	0.096	0.121	
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 9/10	462000	2310	22.00	23.00	1.259	-	-	0.08	0.063	0.079	
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 2	DSI 9/10	462000	2310	21.75	23.00	1.334	-	-	0.17	0.095	0.127	
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 2	DSI 9/10	462000	2310	21.75	23.00	1.334	-	-	-0.02	0.074	0.099	
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 2	DSI 9/10	462000	2310	21.75	23.00	1.334	-	-	0.07	0.090	0.120	
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 2	DSI 9/10	462000	2310	21.75	23.00	1.334	-	-	0.03	0.062	0.083	
17	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	462000	2310	19.35	20.50	1.303	-	-	0.1	0.859	1.119	
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 9	462000	2310	19.35	20.50	1.303	-	-	0.1	0.322	0.420	
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 9	462000	2310	19.35	20.50	1.303	-	-	0.1	0.381	0.497	
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 9	462000	2310	19.35	20.50	1.303	-	-	-0.15	0.214	0.279	
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 10	462000	2310	17.30	18.50	1.318	-	-	-0.03	0.620	0.817	
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	462000	2310	19.12	20.50	1.374	-	-	0.05	0.802	1.102	
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 3	DSI 9	462000	2310	19.12	20.50	1.374	-	-	0.08	0.315	0.433	
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 3	DSI 9	462000	2310	19.12	20.50	1.374	-	-	0.17	0.346	0.475	
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 3	DSI 9	462000	2310	19.12	20.50	1.374	-	-	-0.19	0.205	0.282	
	FR1 n30	10M	QPSK	50	0	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	462000	2310	19.10	20.50	1.380	-	-	-0.13	0.805	1.111	
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	21100	2535	20.72	21.50	1.197	-	-	0.09	0.121	0.145	
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	21100	2535	20.72	21.50	1.197	-	-	-0.15	0.063	0.075	
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	21100	2535	20.72	21.50	1.197	-	-	0.02	0.109	0.130	
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	21100	2535	20.72	21.50	1.197	-	-	-	n/a	n/a	
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	20850	2510	20.55	21.50	1.245	-	-	0.11	0.139	0.173	
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	21350	2560	20.68	21.50	1.208	-	-	0.07	0.153	0.185	
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	21350 21152	2560 2540.2	20.42	21.50	1.282	-	-	0.04	0.096	0.123	
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	21100	2535	20.64	21.50	1.219	-	-	-0.09	0.097	0.118	
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	21100	2535	20.64	21.50	1.219	-	-	-0.14	0.049	0.060	
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	21100	2535	20.64	21.50	1.219	-	-	-0.17	0.087	0.106	
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	21100	2535	20.64	21.50	1.219	-	-	-	n/a	n/a	
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	21100	2535	16.62	17.00	1.091	-	-	0.1	0.839	0.916	
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 9	21100	2535	16.62	17.00	1.091	-	-	0.12	0.297	0.324	



FCC SAR Test Report

Report No. : FA330214

Table with columns for LTE Band, Modulation, Power, etc. Row 18 has a highlighted value of 1.167.



FCC SAR Test Report

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LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	40620	2593	23.98	24.50	1.127	62.9	1.006	-0.14	0.058	0.066
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	40620	2593	23.98	24.50	1.127	62.9	1.006	-	n/a	n/a
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	39750	2506	23.76	24.50	1.186	62.9	1.006	-0.02	0.047	0.056
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	40185	2549.5	23.76	24.50	1.186	62.9	1.006	0.14	0.058	0.069
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	41055	2636.5	23.97	24.50	1.130	62.9	1.006	0.17	0.065	0.074
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	41490	2680	23.69	24.50	1.205	62.9	1.006	0.09	0.066	0.080
LTE Band 41 (PC2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	41490	2680	25.26	26.00	1.186	42.9	1.009	-0.17	0.062	0.074
LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	41490+41292	2680+2660.2	23.66	24.50	1.213	62.9	1.006	0.03	0.056	0.068
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 9/10	40620	2593	22.97	23.50	1.130	62.9	1.006	-0.11	0.052	0.059
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 9/10	40620	2593	22.97	23.50	1.130	62.9	1.006	-	n/a	n/a
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 9/10	40620	2593	22.97	23.50	1.130	62.9	1.006	-0.16	0.046	0.052
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 9/10	40620	2593	22.97	23.50	1.130	62.9	1.006	-	n/a	n/a
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	40620	2593	18.48	19.00	1.127	62.9	1.006	-0.13	0.709	0.804
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 9	40620	2593	18.48	19.00	1.127	62.9	1.006	0.06	0.244	0.277
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 9	40620	2593	18.48	19.00	1.127	62.9	1.006	-0.03	0.451	0.511
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 9	40620	2593	18.48	19.00	1.127	62.9	1.006	0.12	0.107	0.121
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	39750	2506	18.37	19.00	1.156	62.9	1.006	-0.07	0.628	0.730
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	40185	2549.5	18.43	19.00	1.140	62.9	1.006	-0.15	0.920	1.055
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	41055	2636.5	18.27	19.00	1.183	62.9	1.006	0.16	0.534	0.636
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	41490	2680	18.30	19.00	1.175	62.9	1.006	-0.18	0.582	0.688
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 10	40185	2549.5	17.33	18.00	1.167	62.9	1.006	-0.05	0.693	0.813
LTE Band 41 (PC2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	40185	2549.5	20.27	20.60	1.079	42.9	1.009	-0.04	1.050	1.143
LTE Band 41 (PC2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 10	40185	2549.5	18.92	19.60	1.169	42.9	1.009	-0.02	0.620	0.732
LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	40185+39987	2549.5+2529.7	18.11	19.00	1.227	62.9	1.006	0.07	0.770	0.951
LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 10	40185+39987	2549.5+2529.7	17.06	18.00	1.242	62.9	1.006	0.02	0.584	0.729
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	40620	2593	18.44	19.00	1.138	62.9	1.006	0.05	0.696	0.797
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 9	40620	2593	18.44	19.00	1.138	62.9	1.006	-0.04	0.243	0.278
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 9	40620	2593	18.44	19.00	1.138	62.9	1.006	-0.12	0.452	0.517
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 9	40620	2593	18.44	19.00	1.138	62.9	1.006	-0.07	0.060	0.069
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	39750	2506	18.35	19.00	1.161	62.9	1.006	0.14	0.640	0.748
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	40185	2549.5	18.40	19.00	1.148	62.9	1.006	0.16	0.720	0.832
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	41055	2636.5	18.25	19.00	1.189	62.9	1.006	-0.11	0.529	0.632
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 9	41490	2680	18.27	19.00	1.183	62.9	1.006	-0.05	0.596	0.709
LTE Band 41 (PC3)	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 9	40620	2593	18.38	19.00	1.153	62.9	1.006	0.18	0.692	0.803
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	40620	2593	18.11	18.50	1.094	62.9	1.006	0.18	0.641	0.705
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	40620	2593	18.11	18.50	1.094	62.9	1.006	-0.08	0.722	0.795
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 9	40620	2593	18.11	18.50	1.094	62.9	1.006	0.19	0.480	0.528
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 9	40620	2593	18.11	18.50	1.094	62.9	1.006	0.06	0.617	0.679
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	39750	2506	17.81	18.50	1.172	62.9	1.006	0.1	0.672	0.792
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	40185	2549.5	18.05	18.50	1.109	62.9	1.006	0.14	0.569	0.635



	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	41055	2636.5	17.83	18.50	1.167	62.9	1.006	-0.03	0.581	0.682
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 9	41490	2680	17.63	18.50	1.222	62.9	1.006	-0.17	0.568	0.698
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	39750	2506	17.81	18.50	1.172	62.9	1.006	0.02	0.854	1.007
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	40185	2549.5	18.05	18.50	1.109	62.9	1.006	0.11	0.620	0.692
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	41055	2636.5	17.83	18.50	1.167	62.9	1.006	-0.12	0.635	0.745
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	41490	2680	17.63	18.50	1.222	62.9	1.006	-0.17	0.638	0.784
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 9	39750	2506	17.81	18.50	1.172	62.9	1.006	-0.11	0.640	0.755
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 9	40185	2549.5	18.05	18.50	1.109	62.9	1.006	0.16	0.513	0.572
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 9	41055	2636.5	17.83	18.50	1.167	62.9	1.006	-0.03	0.561	0.659
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 9	41490	2680	17.63	18.50	1.222	62.9	1.006	0.16	0.543	0.667
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 10	39750	2506	16.72	17.50	1.197	62.9	1.006	0.01	0.685	0.825
	LTE Band 41 (PC2)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	39750	2506	19.47	20.10	1.156	42.9	1.009	-0.09	0.869	1.014
	LTE Band 41 (PC2)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 10	39750	2506	18.58	19.10	1.127	42.9	1.009	-0.02	0.741	0.843
	LTE Band 41C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	39750+39948	2506+2525.8	16.95	18.50	1.429	62.9	1.006	0.05	0.699	1.005
	LTE Band 41C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 10	39750+39948	2506+2525.8	15.94	17.50	1.432	62.9	1.006	0.11	0.559	0.805
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	40620	2593	18.10	18.50	1.096	62.9	1.006	0.13	0.654	0.721
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	40620	2593	18.10	18.50	1.096	62.9	1.006	0.06	0.745	0.822
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 9	40620	2593	18.10	18.50	1.096	62.9	1.006	0.13	0.497	0.548
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 9	40620	2593	18.10	18.50	1.096	62.9	1.006	0.09	0.602	0.664
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	39750	2506	17.78	18.50	1.180	62.9	1.006	0.17	0.673	0.799
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	40185	2549.5	18.02	18.50	1.117	62.9	1.006	-0.12	0.581	0.653
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	41055	2636.5	17.81	18.50	1.172	62.9	1.006	-0.14	0.575	0.678
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 9	41490	2680	17.62	18.50	1.225	62.9	1.006	-0.17	0.569	0.701
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	39750	2506	17.78	18.50	1.180	62.9	1.006	0.06	0.714	0.848
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	40185	2549.5	18.02	18.50	1.117	62.9	1.006	0.18	0.626	0.703
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	41055	2636.5	17.81	18.50	1.172	62.9	1.006	0.06	0.637	0.751
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 9	41490	2680	17.62	18.50	1.225	62.9	1.006	-0.02	0.639	0.787
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 9	39750	2506	17.78	18.50	1.180	62.9	1.006	-0.15	0.642	0.762
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 9	40185	2549.5	18.02	18.50	1.117	62.9	1.006	-0.03	0.515	0.579
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 9	41055	2636.5	17.81	18.50	1.172	62.9	1.006	0.08	0.556	0.656
	LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 9	41490	2680	17.62	18.50	1.225	62.9	1.006	-0.19	0.528	0.650
	LTE Band 41 (PC3)	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 9	40620	2593	18.08	18.50	1.102	62.9	1.006	-0.02	0.643	0.713
	LTE Band 41 (PC3)	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 9	40620	2593	18.08	18.50	1.102	62.9	1.006	-0.02	0.728	0.807
	LTE Band 41 (PC3)	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 4	DSI 9	40620	2593	18.08	18.50	1.102	62.9	1.006	-0.02	0.606	0.672
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	DSI 9	40620	2593	17.85	18.50	1.161	62.9	1.006	-0.11	0.163	0.190
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	DSI 9	40620	2593	17.85	18.50	1.161	62.9	1.006	0.08	0.126	0.147
19	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	40620	2593	17.85	18.50	1.161	62.9	1.006	-0.17	0.992	1.159
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 9	40620	2593	17.85	18.50	1.161	62.9	1.006	0.16	0.428	0.500
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	39750	2506	17.78	18.50	1.180	62.9	1.006	0.02	0.876	1.040
	LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	40185	2549.5	17.72	18.50	1.197	62.9	1.006	0.04	0.827	0.996



LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	41055	2636.5	17.33	18.50	1.309	62.9	1.006	-0.08	0.763	1.005
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	41490	2680	16.94	18.50	1.432	62.9	1.006	-0.18	0.747	1.076
LTE Band 41 (PC3)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 10	40620	2593	14.74	15.50	1.191	62.9	1.006	0.08	0.555	0.665
LTE Band 41 (PC2)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	40620	2593	19.51	20.10	1.146	42.9	1.009	-0.18	0.976	1.128
LTE Band 41 (PC2)	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 10	40620	2593	16.74	17.10	1.086	42.9	1.009	-0.08	0.540	0.592
LTE Band 41C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	40620+40422	2593+2573.2	17.75	18.50	1.189	62.9	1.006	-0.05	0.849	1.015
LTE Band 41C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 10	40620+40422	2593+2573.2	14.65	15.50	1.216	62.9	1.006	0.07	0.436	0.533
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	DSI 9	40620	2593	17.76	18.50	1.186	62.9	1.006	0.19	0.167	0.199
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	DSI 9	40620	2593	17.76	18.50	1.186	62.9	1.006	0.07	0.129	0.154
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	40620	2593	17.76	18.50	1.186	62.9	1.006	-0.12	0.924	1.102
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	DSI 9	40620	2593	17.76	18.50	1.186	62.9	1.006	-0.13	0.439	0.524
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	39750	2506	17.72	18.50	1.197	62.9	1.006	-0.13	0.915	1.102
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	40185	2549.5	17.68	18.50	1.208	62.9	1.006	-0.04	0.829	1.007
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	41055	2636.5	17.21	18.50	1.346	62.9	1.006	-0.13	0.776	1.051
LTE Band 41 (PC3)	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	41490	2680	16.91	18.50	1.442	62.9	1.006	-0.09	0.742	1.076
LTE Band 41 (PC3)	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 8	DSI 9	40620	2593	17.70	18.50	1.202	62.9	1.006	0.12	0.908	1.098
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 9/10	507000	2535	20.28	21.00	1.180	-	-	-0.05	0.092	0.109
FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 9/10	507000	2535	20.28	21.00	1.180	-	-	0.17	0.048	0.057
FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 9/10	507000	2535	20.28	21.00	1.180	-	-	-0.16	0.091	0.107
FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 9/10	507000	2535	20.28	21.00	1.180	-	-	-	n/a	n/a
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 9/10	502000	2510	20.27	21.00	1.183	-	-	-0.09	0.128	0.151
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 9/10	512000	2560	20.26	21.00	1.186	-	-	0.08	0.096	0.114
FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	DSI 9/10	507000	2535	20.25	21.00	1.189	-	-	-0.18	0.088	0.105
FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	DSI 9/10	507000	2535	20.25	21.00	1.189	-	-	0.12	0.045	0.053
FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	DSI 9/10	507000	2535	20.25	21.00	1.189	-	-	-0.02	0.085	0.101
FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	DSI 9/10	507000	2535	20.25	21.00	1.189	-	-	-	n/a	n/a
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	507000	2535	16.78	17.50	1.180	-	-	0.11	0.901	1.063
FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 9	507000	2535	16.78	17.50	1.180	-	-	0.13	0.256	0.302
FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 9	507000	2535	16.78	17.50	1.180	-	-	-0.06	0.270	0.319
FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 9	507000	2535	16.78	17.50	1.180	-	-	0.02	0.109	0.129
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	502000	2510	16.73	17.50	1.194	-	-	-0.13	0.840	1.003
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	512000	2560	16.63	17.50	1.222	-	-	-0.1	0.860	1.051
FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	507000	2535	16.74	17.50	1.191	-	-	0.01	0.926	1.103
FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 3	DSI 9	507000	2535	16.74	17.50	1.191	-	-	0.03	0.262	0.312
FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 3	DSI 9	507000	2535	16.74	17.50	1.191	-	-	0.09	0.278	0.331
FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 3	DSI 9	507000	2535	16.74	17.50	1.191	-	-	0.03	0.113	0.135
FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	502000	2510	16.71	17.50	1.199	-	-	-0.07	0.858	1.029
FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	512000	2560	16.62	17.50	1.225	-	-	0.09	0.878	1.075
FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 3	DSI 10	507000	2535	15.25	16.00	1.189	-	-	0.01	0.713	0.847
FR1 n7	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 3	DSI 9	507000	2535	16.72	17.50	1.197	-	-	0.17	0.897	1.073
FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	DSI 9	507000	2535	14.76	16.00	1.330	-	-	-0.01	0.580	0.772
FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	DSI 9	507000	2535	14.76	16.00	1.330	-	-	0.03	0.609	0.810
FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	DSI 9	507000	2535	14.76	16.00	1.330	-	-	0.05	0.435	0.579
FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	DSI 9	507000	2535	14.76	16.00	1.330	-	-	-0.05	0.549	0.730
FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	DSI 9	502000	2510	14.63	16.00	1.371	-	-	-0.01	0.708	0.971
FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	DSI 9	512000	2560	14.51	16.00	1.409	-	-	-0.1	0.776	1.094
FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	DSI 9	507000	2535	14.68	16.00	1.355	-	-	0.05	0.604	0.819
FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	DSI 9	507000	2535	14.68	16.00	1.355	-	-	-0.09	0.645	0.874
FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 4	DSI 9	507000	2535	14.68	16.00	1.355	-	-	-0.1	0.451	0.611
FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 4	DSI 9	507000	2535	14.68	16.00	1.355	-	-	0.16	0.562	0.762



FCC SAR Test Report

Report No. : FA330214

Table with 21 columns: Test ID, Frequency, Modulation, Power, Bandwidth, Position, Distance, Antenna, DSI, SAR1, SAR2, SAR3, SAR4, SAR5, SAR6, SAR7, SAR8, SAR9, SAR10, SAR11, SAR12. Includes rows for FR1 n7 and FR1 n41(PC2) configurations.



FCC SAR Test Report

Report No. : FA330214

Table with columns for test parameters (FR1 n41(PC2), 100M, QPSK, 135, 69, DFT-30, Left Cheek, 0mm, Ant 8, DSI 9, 518598, 2592.99, 14.98, 16.00, 1.265, -, -, -0.05, 0.936, 1.184) and rows for various LTE Band 48 Part 96 configurations.



Part 96																					
LTE Band 48 Part 96	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 9	55830	3609	17.63	18.50	1.222	62.9	1.006	0.1	0.548	0.674		
LTE Band 48 Part 96	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 9	55830	3609	17.63	18.50	1.222	62.9	1.006	0.1	0.830	1.020		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 9	55830	3609	18.47	19.50	1.268	62.9	1.006	-0.05	0.452	0.576		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 9	55830	3609	18.47	19.50	1.268	62.9	1.006	0.05	0.067	0.085		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 9	55830	3609	18.47	19.50	1.268	62.9	1.006	-0.08	0.583	0.743		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 9	55830	3609	18.47	19.50	1.268	62.9	1.006	-0.08	0.137	0.175		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 9	55340	3560	18.08	19.50	1.387	62.9	1.006	-0.18	0.520	0.725		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 9	56150	3641	18.46	19.50	1.271	62.9	1.006	0.03	0.525	0.671		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 9	56640	3690	17.95	19.50	1.429	62.9	1.006	0.19	0.702	1.009		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 10	56640	3690	17.53	18.50	1.250	62.9	1.006	0.19	0.486	0.611		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 9	55830	3609	18.46	19.50	1.271	62.9	1.006	0.1	0.440	0.562		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 9	55830	3609	18.46	19.50	1.271	62.9	1.006	0.05	0.066	0.084		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 9	55830	3609	18.46	19.50	1.271	62.9	1.006	-0.14	0.541	0.692		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 9	55830	3609	18.46	19.50	1.271	62.9	1.006	0.15	0.131	0.167		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 9	55340	3560	18.06	19.50	1.393	62.9	1.006	0.13	0.489	0.685		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 9	56150	3641	18.45	19.50	1.274	62.9	1.006	0.02	0.501	0.642		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 9	56640	3690	17.93	19.50	1.435	62.9	1.006	-0.18	0.668	0.965		
LTE Band 48 Part 96	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 6	DSI 9	55830	3609	18.40	19.50	1.288	62.9	1.006	0.03	0.537	0.696		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	DSI 9	55830	3609	17.80	19.00	1.318	62.9	1.006	-0.14	0.106	0.141		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	DSI 9	55830	3609	17.80	19.00	1.318	62.9	1.006	-0.07	0.082	0.109		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	55830	3609	17.80	19.00	1.318	62.9	1.006	0.08	0.751	0.996		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 9	55830	3609	17.80	19.00	1.318	62.9	1.006	0.15	0.212	0.281		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	55340	3560	17.46	19.00	1.426	62.9	1.006	-0.11	0.590	0.846		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	56150	3641	17.56	19.00	1.393	62.9	1.006	-0.03	0.781	1.095		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 9	56640	3690	17.76	19.00	1.330	62.9	1.006	-0.11	0.730	0.977		
LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 10	56150	3641	16.11	17.00	1.227	62.9	1.006	-0.03	0.457	0.564		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	DSI 9	55830	3609	17.78	19.00	1.324	62.9	1.006	0.02	0.101	0.135		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	DSI 9	55830	3609	17.78	19.00	1.324	62.9	1.006	0.18	0.077	0.103		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	55830	3609	17.78	19.00	1.324	62.9	1.006	-0.12	0.716	0.954		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	DSI 9	55830	3609	17.78	19.00	1.324	62.9	1.006	0.15	0.209	0.278		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	55340	3560	17.43	19.00	1.435	62.9	1.006	-0.02	0.576	0.832		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	56150	3641	17.55	19.00	1.396	62.9	1.006	0.01	0.734	1.031		
LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 9	56640	3690	17.73	19.00	1.340	62.9	1.006	0.1	0.706	0.951		
LTE Band 48 Part 96	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 8	DSI 9	55830	3609	17.76	19.00	1.330	62.9	1.006	0.1	0.689	0.922		
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.75	15.50	1.189	-	-	-0.11	0.845	1.004		
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 9	633332	3499.98	14.75	15.50	1.189	-	-	0.12	0.253	0.301		
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.75	15.50	1.189	-	-	0.03	0.213	0.253		
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 9	633332	3499.98	14.75	15.50	1.189	-	-	-0.02	0.092	0.109		
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 10	633332	3499.98	13.72	14.50	1.197	-	-	-0.02	0.705	0.844		



FCC SAR Test Report

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	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.62	15.50	1.225	-	-	0.08	0.708	0.867
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 9	633332	3499.98	14.62	15.50	1.225	-	-	-0.11	0.177	0.217
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.62	15.50	1.225	-	-	-0.14	0.149	0.182
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 9	633332	3499.98	14.62	15.50	1.225	-	-	0.01	0.073	0.089
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.52	15.50	1.253	-	-	0.18	0.733	0.919
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	656000	3840	14.40	15.50	1.288	-	-	0.06	0.581	0.748
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 9	656000	3840	14.40	15.50	1.288	-	-	-0.05	0.234	0.301
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 9	656000	3840	14.40	15.50	1.288	-	-	0.13	0.175	0.225
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 9	656000	3840	14.40	15.50	1.288	-	-	0.05	0.091	0.117
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 10	656000	3840	13.22	14.50	1.343	-	-	0.02	0.479	0.643
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	656000	3840	14.03	15.50	1.403	-	-	-0.12	0.518	0.727
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 9	656000	3840	14.03	15.50	1.403	-	-	0.08	0.204	0.286
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 9	656000	3840	14.03	15.50	1.403	-	-	0.12	0.158	0.222
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 9	656000	3840	14.03	15.50	1.403	-	-	0.04	0.089	0.125
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	656000	3840	14.01	15.50	1.409	-	-	0.03	0.509	0.717
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 9	633332	3499.98	15.55	16.00	1.109	-	-	0.13	0.385	0.427
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	633332	3499.98	15.55	16.00	1.109	-	-	0.07	0.574	0.637
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 9	633332	3499.98	15.55	16.00	1.109	-	-	-0.14	0.223	0.247
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 9	633332	3499.98	15.55	16.00	1.109	-	-	0.03	0.228	0.253
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 10	633332	3499.98	14.42	15.00	1.143	-	-	0.05	0.339	0.387
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 9	633332	3499.98	15.33	16.00	1.167	-	-	-0.04	0.338	0.394
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	633332	3499.98	15.33	16.00	1.167	-	-	-0.13	0.528	0.616
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 9	633332	3499.98	15.33	16.00	1.167	-	-	-0.1	0.198	0.231
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 9	633332	3499.98	15.33	16.00	1.167	-	-	0.02	0.205	0.239
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 9	656000	3840	15.20	16.00	1.202	-	-	0.1	0.485	0.583
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	656000	3840	15.20	16.00	1.202	-	-	0.14	0.845	1.016
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 9	656000	3840	15.20	16.00	1.202	-	-	0.13	0.296	0.356
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 9	656000	3840	15.20	16.00	1.202	-	-	-0.14	0.322	0.387
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 9	656000	3840	15.17	16.00	1.211	-	-	-0.05	0.538	0.651
23	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	656000	3840	15.17	16.00	1.211	-	-	0.16	0.907	1.098
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 9	656000	3840	15.17	16.00	1.211	-	-	-0.05	0.318	0.385
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 9	656000	3840	15.17	16.00	1.211	-	-	0.04	0.372	0.450
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 10	656000	3840	13.90	15.00	1.288	-	-	0.06	0.735	0.947
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	DSI 9	656000	3840	15.05	16.00	1.245	-	-	0.09	0.502	0.625
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	656000	3840	15.05	16.00	1.245	-	-	0.04	0.874	1.088
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 4	DSI 9	656000	3840	15.05	16.00	1.245	-	-	-0.03	0.346	0.431
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 9	633332	3499.98	16.77	18.00	1.327	-	-	-0.08	0.610	0.810
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 9	633332	3499.98	16.77	18.00	1.327	-	-	-0.03	0.104	0.138
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 9	633332	3499.98	16.77	18.00	1.327	-	-	0.08	0.794	1.054
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 9	633332	3499.98	16.77	18.00	1.327	-	-	-0.07	0.230	0.305



FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 10	633332	3499.98	14.78	16.00	1.324	-	-	0.08	0.484	0.641
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 9	633332	3499.98	16.68	18.00	1.355	-	-	0.08	0.557	0.755
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 9	633332	3499.98	16.68	18.00	1.355	-	-	-0.17	0.099	0.134
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 9	633332	3499.98	16.68	18.00	1.355	-	-	-0.07	0.731	0.991
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 9	633332	3499.98	16.68	18.00	1.355	-	-	-0.16	0.215	0.291
FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 6	DSI 9	633332	3499.98	16.67	18.00	1.358	-	-	0.01	0.568	0.772
FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 6	DSI 9	633332	3499.98	16.67	18.00	1.358	-	-	-0.14	0.735	0.998
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 9	656000	3840	17.20	18.00	1.202	-	-	-0.01	0.564	0.678
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 9	656000	3840	17.20	18.00	1.202	-	-	-0.16	0.101	0.121
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 9	656000	3840	17.20	18.00	1.202	-	-	-0.17	0.704	0.846
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 9	656000	3840	17.20	18.00	1.202	-	-	-0.09	0.207	0.249
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 9	656000	3840	17.13	18.00	1.222	-	-	-0.01	0.600	0.733
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 9	656000	3840	17.13	18.00	1.222	-	-	-0.17	0.108	0.132
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 9	656000	3840	17.13	18.00	1.222	-	-	-0.12	0.734	0.897
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 9	656000	3840	17.13	18.00	1.222	-	-	-0.17	0.242	0.296
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 10	656000	3840	14.89	16.00	1.291	-	-	-0.12	0.378	0.488
FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 6	DSI 9	656000	3840	17.10	18.00	1.230	-	-	0.01	0.579	0.712
FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 6	DSI 9	656000	3840	17.10	18.00	1.230	-	-	-0.02	0.715	0.880
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 9	633332	3499.98	15.76	17.00	1.330	-	-	0.01	0.079	0.105
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 9	633332	3499.98	15.76	17.00	1.330	-	-	-0.12	0.059	0.078
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 9	633332	3499.98	15.76	17.00	1.330	-	-	0.18	0.464	0.617
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 9	633332	3499.98	15.76	17.00	1.330	-	-	-0.06	0.171	0.228
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 9	633332	3499.98	15.68	17.00	1.355	-	-	0.04	0.084	0.114
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 9	633332	3499.98	15.68	17.00	1.355	-	-	0.06	0.062	0.084
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 9	633332	3499.98	15.68	17.00	1.355	-	-	-0.01	0.497	0.674
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 9	633332	3499.98	15.68	17.00	1.355	-	-	0.14	0.173	0.234
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 10	633332	3499.98	13.72	15.00	1.343	-	-	-0.05	0.280	0.376
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 9	656000	3840	16.21	17.00	1.199	-	-	0.12	0.125	0.150
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 9	656000	3840	16.21	17.00	1.199	-	-	0.09	0.091	0.109
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 9	656000	3840	16.21	17.00	1.199	-	-	0.08	0.804	0.964
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 9	656000	3840	16.21	17.00	1.199	-	-	0.09	0.286	0.343
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 9	656000	3840	16.13	17.00	1.222	-	-	-0.04	0.141	0.172
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 9	656000	3840	16.13	17.00	1.222	-	-	-0.01	0.095	0.116
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 9	656000	3840	16.13	17.00	1.222	-	-	0.14	0.845	1.032
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 9	656000	3840	16.13	17.00	1.222	-	-	0.12	0.293	0.358
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 10	656000	3840	13.79	15.00	1.321	-	-	0.04	0.484	0.640
FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 8	DSI 9	656000	3840	16.08	17.00	1.236	-	-	-0.01	0.798	0.986



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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5+6(5)	Power Level 1	1	2412	10.40	12.00	1.445	97.86	1.022	-0.11	0.163	0.241
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5+6(5)	Power Level 1	1	2412	10.40	12.00	1.445	97.86	1.022	0.02	0.185	0.273
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5+6(5)	Power Level 1	1	2412	10.40	12.00	1.445	97.86	1.022	0.19	0.249	0.368
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5+6(5)	Power Level 1	1	2412	10.40	12.00	1.445	97.86	1.022	0.08	0.265	0.391
24	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5+6(5)	Power Level 1	6	2437	10.30	12.00	1.479	97.86	1.022	-0.14	0.393	0.594
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5+6(6)	Power Level 1	11	2462	10.10	12.00	1.549	97.86	1.022	0.06	0.255	0.404
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5+6(6)	Power Level 2	1	2412	7.50	9.00	1.413	97.86	1.022	-0.13	0.082	0.118
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5+6(6)	Power Level 2	1	2412	7.50	9.00	1.413	97.86	1.022	0.01	0.090	0.130
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5+6(6)	Power Level 2	1	2412	7.50	9.00	1.413	97.86	1.022	0.06	0.124	0.179
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5+6(6)	Power Level 2	1	2412	7.50	9.00	1.413	97.86	1.022	0.17	0.133	0.192
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5+6(6)	Power Level 2	6	2437	7.20	9.00	1.514	97.86	1.022	0.03	0.178	0.275
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5+6(6)	Power Level 2	11	2462	7.20	9.00	1.514	97.86	1.022	0.02	0.132	0.204
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 5	Power Level 1	78	2480	8.30	9.50	1.318	76.88	1.301	-0.15	0.079	0.136
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 5	Power Level 1	78	2480	8.30	9.50	1.318	76.88	1.301	0.06	0.083	0.142
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 5	Power Level 1	78	2480	8.30	9.50	1.318	76.88	1.301	0.01	0.153	0.262
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 5	Power Level 1	78	2480	8.30	9.50	1.318	76.88	1.301	0.04	0.126	0.216
25	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 5	Power Level 1	0	2402	8.00	9.50	1.413	76.88	1.301	-0.03	0.162	0.298
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 5	Power Level 1	39	2441	7.70	9.50	1.514	76.88	1.301	-0.19	0.148	0.291
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 6	Power Level 1	39	2441	11.00	12.00	1.259	76.71	1.304	-0.11	0.129	0.212
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 6	Power Level 1	39	2441	11.00	12.00	1.259	76.71	1.304	0.02	0.017	0.027
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Power Level 1	39	2441	11.00	12.00	1.259	76.71	1.304	-0.11	0.170	0.279
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 6	Power Level 1	39	2441	11.00	12.00	1.259	76.71	1.304	0.01	0.025	0.041
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Power Level 1	0	2402	10.90	12.00	1.288	76.71	1.304	0.09	0.118	0.198
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Power Level 1	78	2480	11.00	12.00	1.259	76.71	1.304	0.08	0.181	0.297
5000MHz																
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+6(6)	Power Level 1	50	5250	7.91	9.50	1.442	99.33	1.007	0.03	0.188	0.273
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+6(6)	Power Level 1	50	5250	7.91	9.50	1.442	99.33	1.007	0.08	0.191	0.277
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+6(6)	Power Level 1	50	5250	7.91	9.50	1.442	99.33	1.007	-0.13	0.324	0.471
26	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+6(6)	Power Level 1	50	5250	7.91	9.50	1.442	99.33	1.007	-0.05	0.385	0.559
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+6(6)	Power Level 2	50	5250	4.94	6.50	1.432	99.33	1.007	0.06	0.097	0.140
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+6(6)	Power Level 2	50	5250	4.94	6.50	1.432	99.33	1.007	-0.14	0.092	0.133
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+6(6)	Power Level 2	50	5250	4.94	6.50	1.432	99.33	1.007	-0.16	0.162	0.234
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+6(6)	Power Level 2	50	5250	4.94	6.50	1.432	99.33	1.007	0.08	0.183	0.264
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+6(6)	Power Level 1	114	5570	8.11	10.00	1.545	99.33	1.007	-0.14	0.201	0.313
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+6(6)	Power Level 1	114	5570	8.11	10.00	1.545	99.33	1.007	0.03	0.180	0.280
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+6(6)	Power Level 1	114	5570	8.11	10.00	1.545	99.33	1.007	-0.15	0.342	0.532
27	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+6(6)	Power Level 1	114	5570	8.11	10.00	1.545	99.33	1.007	-0.03	0.369	0.574
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+6(6)	Power Level 2	114	5570	5.17	7.00	1.524	99.33	1.007	-0.14	0.104	0.160
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+6(6)	Power Level 2	114	5570	5.17	7.00	1.524	99.33	1.007	0.03	0.093	0.143
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+6(6)	Power Level 2	114	5570	5.17	7.00	1.524	99.33	1.007	-0.15	0.136	0.209
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+6(6)	Power Level 2	114	5570	5.17	7.00	1.524	99.33	1.007	-0.03	0.166	0.255
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Power Level 1	155	5775	11.85	13.50	1.462	100	1.000	0.16	0.227	0.332
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Power Level 1	155	5775	11.85	13.50	1.462	100	1.000	-0.15	0.223	0.326
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6	Power Level 1	155	5775	11.85	13.50	1.462	100	1.000	-0.09	0.330	0.483
28	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6	Power Level 1	155	5775	11.85	13.50	1.462	100	1.000	0.11	0.410	0.599
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6(5)	Power Level 2	155	5775	5.71	7.50	1.510	100	1.000	0.16	0.117	0.177
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6(5)	Power Level 2	155	5775	5.71	7.50	1.510	100	1.000	-0.15	0.115	0.174
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+6(5)	Power Level 2	155	5775	5.71	7.50	1.510	100	1.000	-0.09	0.158	0.239
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+6(5)	Power Level 2	155	5775	5.71	7.50	1.510	100	1.000	0.11	0.168	0.254



16.2 Hotspot 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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 17	23095	707.5	22.32	23.50	1.312	-	-	0.07	0.252	0.331
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 17	23095	707.5	22.32	23.50	1.312	-	-	-0.18	0.258	0.339
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 17	23095	707.5	22.32	23.50	1.312	-	-	0.19	0.494	0.648
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 17	23095	707.5	22.32	23.50	1.312	-	-	0.07	0.178	0.234
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 17	23095	707.5	22.31	23.50	1.315	-	-	0.15	0.284	0.374
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 17	23095	707.5	22.31	23.50	1.315	-	-	0.13	0.258	0.339
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 17	23095	707.5	22.31	23.50	1.315	-	-	0.17	0.379	0.498
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 17	23095	707.5	22.31	23.50	1.315	-	-	0.14	0.177	0.233
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 17	23095	707.5	22.34	23.50	1.306	-	-	-0.01	0.497	0.649
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 17	23095	707.5	22.34	23.50	1.306	-	-	0.15	0.437	0.571
29	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 17	23095	707.5	22.34	23.50	1.306	-	-	0.03	0.731	0.955
	LTE Band 12	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 17	23095	707.5	22.34	23.50	1.306	-	-	-	n/a	n/a
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 17	23095	707.5	22.28	23.50	1.324	-	-	0.03	0.512	0.678
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 17	23095	707.5	22.28	23.50	1.324	-	-	-0.02	0.453	0.600
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 17	23095	707.5	22.28	23.50	1.324	-	-	0.13	0.686	0.908
	LTE Band 12	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 17	23095	707.5	22.28	23.50	1.324	-	-	-	n/a	n/a
	LTE Band 12	10M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 17	23095	707.5	22.08	23.50	1.387	-	-	-0.18	0.665	0.922
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 17	133297	680.5	23.80	24.50	1.175	-	-	0.12	0.348	0.409
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 17	133297	680.5	23.80	24.50	1.175	-	-	0.07	0.339	0.398
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 17	133297	680.5	23.80	24.50	1.175	-	-	0.13	0.543	0.638
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 17	133297	680.5	23.80	24.50	1.175	-	-	-0.06	0.167	0.196
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 17	133297	680.5	22.56	23.50	1.242	-	-	-0.19	0.280	0.348
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 17	133297	680.5	22.56	23.50	1.242	-	-	0.08	0.278	0.345
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 17	133297	680.5	22.56	23.50	1.242	-	-	0.04	0.390	0.484
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 17	133297	680.5	22.56	23.50	1.242	-	-	0.12	0.130	0.161
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 17	133297	680.5	21.67	22.50	1.211	-	-	0.13	0.480	0.581
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 17	133297	680.5	21.67	22.50	1.211	-	-	0.15	0.479	0.580
30	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 17	133297	680.5	21.67	22.50	1.211	-	-	0.12	0.786	0.952
	LTE Band 71	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 17	133297	680.5	21.67	22.50	1.211	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 17	133297	680.5	21.56	22.50	1.242	-	-	0.15	0.508	0.631
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 17	133297	680.5	21.56	22.50	1.242	-	-	-0.06	0.503	0.625
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 17	133297	680.5	21.56	22.50	1.242	-	-	-0.13	0.756	0.939
	LTE Band 71	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 17	133297	680.5	21.56	22.50	1.242	-	-	-	n/a	n/a
	LTE Band 71	20M	QPSK	100	0	-	Left Side	10mm	Ant 1	DSI 17	133297	680.5	21.45	22.50	1.274	-	-	0.17	0.730	0.930
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 17	141500	707.5	23.55	24.50	1.245	-	-	0.19	0.364	0.453
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 17	141500	707.5	23.55	24.50	1.245	-	-	-0.04	0.360	0.448
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 17	141500	707.5	23.55	24.50	1.245	-	-	-0.15	0.452	0.563
	FR1 n12	15M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 17	141500	707.5	23.55	24.50	1.245	-	-	0.01	0.201	0.250
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 0	DSI 17	141500	707.5	23.26	24.50	1.330	-	-	-0.04	0.367	0.488
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 0	DSI 17	141500	707.5	23.26	24.50	1.330	-	-	0.1	0.362	0.482
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Side	10mm	Ant 0	DSI 17	141500	707.5	23.26	24.50	1.330	-	-	-0.11	0.464	0.617
	FR1 n12	15M	QPSK	36	22	DFT-15	Bottom Side	10mm	Ant 0	DSI 17	141500	707.5	23.26	24.50	1.330	-	-	0.02	0.206	0.274
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 17	141500	707.5	22.66	23.50	1.213	-	-	0.02	0.563	0.683
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 17	141500	707.5	22.66	23.50	1.213	-	-	-0.09	0.557	0.676
31	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 17	141500	707.5	22.66	23.50	1.213	-	-	-0.14	0.811	0.984
	FR1 n12	15M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 17	141500	707.5	22.66	23.50	1.213	-	-	-	n/a	n/a
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 1	DSI 17	141500	707.5	22.63	23.50	1.222	-	-	-0.06	0.595	0.727
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 1	DSI 17	141500	707.5	22.63	23.50	1.222	-	-	0.04	0.590	0.721
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 1	DSI 17	141500	707.5	22.63	23.50	1.222	-	-	-0.03	0.796	0.973
	FR1 n12	15M	QPSK	36	22	DFT-15	Top Side	10mm	Ant 1	DSI 17	141500	707.5	22.63	23.50	1.222	-	-	-	n/a	n/a



FCC SAR Test Report

Report No. : FA330214

Table with columns: Test ID, Modulation, Bandwidth, Power, Frequency, Modulation, Position, Distance, Antenna, DSI, SAR1, SAR2, SAR3, SAR4, SAR5, SAR6, SAR7, SAR8, SAR9, SAR10. Includes sections for FR1 n12, FR1 n71, GSM850, WCDMA V, and LTE Band 26.



FCC SAR Test Report

Report No. : FA330214

	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	DSI 17	26865	831.5	22.50	23.50	1.259	-	-	0.03	0.319	0.402
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	DSI 17	26865	831.5	22.50	23.50	1.259	-	-	-0.07	0.340	0.428
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	DSI 17	26865	831.5	22.50	23.50	1.259	-	-	-0.13	0.091	0.115
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 17	26865	831.5	21.47	22.50	1.268	-	-	0.03	0.366	0.464
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 17	26865	831.5	21.47	22.50	1.268	-	-	-0.08	0.342	0.434
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 17	26865	831.5	21.47	22.50	1.268	-	-	-0.15	0.561	0.711
	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 17	26865	831.5	21.47	22.50	1.268	-	-	-	n/a	n/a
35	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 17	26765	821.5	21.33	22.50	1.309	-	-	-0.19	0.714	0.935
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 17	26965	841.5	21.46	22.50	1.271	-	-	-0.05	0.509	0.647
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI 17	26865	831.5	21.44	22.50	1.276	-	-	-0.18	0.388	0.495
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI 17	26865	831.5	21.44	22.50	1.276	-	-	0.09	0.371	0.474
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	DSI 17	26865	831.5	21.44	22.50	1.276	-	-	0.1	0.544	0.694
	LTE Band 26	15M	QPSK	36	0	-	Top Side	10mm	Ant 1	DSI 17	26865	831.5	21.44	22.50	1.276	-	-	-	n/a	n/a
	LTE Band 26	15M	QPSK	75	0	-	Left Side	10mm	Ant 1	DSI 17	26865	831.5	21.35	22.50	1.303	-	-	-0.18	0.535	0.697
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 17	167300	836.5	23.55	24.50	1.245	-	-	0.18	0.418	0.520
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 17	167300	836.5	23.55	24.50	1.245	-	-	-0.07	0.395	0.492
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 17	167300	836.5	23.55	24.50	1.245	-	-	-0.12	0.450	0.560
	FR1 n5	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 17	167300	836.5	23.55	24.50	1.245	-	-	-0.15	0.143	0.178
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 17	167300	836.5	23.25	24.50	1.334	-	-	0.04	0.390	0.520
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 17	167300	836.5	23.25	24.50	1.334	-	-	-0.05	0.362	0.483
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Side	10mm	Ant 0	DSI 17	167300	836.5	23.25	24.50	1.334	-	-	0.18	0.459	0.612
	FR1 n5	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 17	167300	836.5	23.25	24.50	1.334	-	-	-0.01	0.134	0.179
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 17	167300	836.5	21.14	22.00	1.219	-	-	0.03	0.401	0.489
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 17	167300	836.5	21.14	22.00	1.219	-	-	0.19	0.397	0.484
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 17	167300	836.5	21.14	22.00	1.219	-	-	0.12	0.619	0.755
	FR1 n5	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 17	167300	836.5	21.14	22.00	1.219	-	-	-	n/a	n/a
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 1	DSI 17	167300	836.5	21.10	22.00	1.230	-	-	-0.04	0.470	0.578
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	DSI 17	167300	836.5	21.10	22.00	1.230	-	-	0.01	0.472	0.581
36	FR1 n5	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 1	DSI 17	167300	836.5	21.10	22.00	1.230	-	-	-0.17	0.709	0.872
	FR1 n5	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 1	DSI 17	167300	836.5	21.10	22.00	1.230	-	-	-	n/a	n/a
	FR1 n5	20M	QPSK	100	0	DFT-15	Left Side	10mm	Ant 1	DSI 17	167300	836.5	21.08	22.00	1.236	-	-	0.07	0.667	0.824
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 17	1413	1732.6	22.05	22.50	1.109	-	-	-0.04	0.533	0.591
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 17	1413	1732.6	22.05	22.50	1.109	-	-	0.01	0.569	0.631
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 17	1413	1732.6	22.05	22.50	1.109	-	-	0.12	0.311	0.345
37	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 17	1413	1732.6	22.05	22.50	1.109	-	-	-0.04	0.890	0.987
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 17	1312	1712.4	21.80	22.50	1.175	-	-	-0.13	0.740	0.869
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 17	1513	1752.6	22.03	22.50	1.114	-	-	0.11	0.870	0.969
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 3	DSI 17	1413	1732.6	22.08	22.50	1.102	-	-	0.1	0.411	0.453
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 3	DSI 17	1413	1732.6	22.08	22.50	1.102	-	-	0.17	0.396	0.436
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	DSI 17	1413	1732.6	22.08	22.50	1.102	-	-	0.14	0.744	0.820
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 3	DSI 17	1413	1732.6	22.08	22.50	1.102	-	-	-0.02	0.322	0.355
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	DSI 17	1312	1712.4	21.93	22.50	1.140	-	-	0.08	0.695	0.792
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	DSI 17	1513	1752.6	22.07	22.50	1.104	-	-	0.03	0.883	0.975
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 17	132322	1745	21.73	22.50	1.194	-	-	-0.07	0.485	0.579
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 17	132322	1745	21.73	22.50	1.194	-	-	0.1	0.465	0.555
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 17	132322	1745	21.73	22.50	1.194	-	-	-0.02	0.278	0.332
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	132322	1745	21.73	22.50	1.194	-	-	-0.17	0.800	0.955
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	132072	1720	21.32	22.50	1.312	-	-	0.05	0.716	0.940
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	132572	1770	21.72	22.50	1.197	-	-	-0.18	0.825	0.987
	LTE Band 66C	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	132572+ 132374	1770+ 1750.2	21.06	22.50	1.393	-	-	0.03	0.685	0.954
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 17	132322	1745	21.45	22.50	1.274	-	-	-0.17	0.459	0.585
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 17	132322	1745	21.45	22.50	1.274	-	-	-0.15	0.513	0.653
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 17	132322	1745	21.45	22.50	1.274	-	-	0.04	0.279	0.355
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	132322	1745	21.45	22.50	1.274	-	-	0.05	0.744	0.947
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	132072	1720	21.30	22.50	1.318	-	-	0.13	0.651	0.858



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	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	132572	1770	21.41	22.50	1.285	-	-	-0.18	0.759	0.976
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 17	132322	1745	21.38	22.50	1.294	-	-	-0.15	0.755	0.977
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 17	132322	1745	21.54	22.00	1.112	-	-	-0.19	0.324	0.360
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 17	132322	1745	21.54	22.00	1.112	-	-	0.07	0.314	0.349
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	132322	1745	21.54	22.00	1.112	-	-	0.05	0.806	0.896
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 17	132322	1745	21.54	22.00	1.112	-	-	0.16	0.226	0.251
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	132072	1720	21.30	22.00	1.175	-	-	-0.05	0.753	0.885
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	132572	1770	21.53	22.00	1.114	-	-	0.1	0.824	0.918
	LTE Band 66C	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	132572+ 132374	1770+ 1750.2	20.45	22.00	1.429	-	-	0.03	0.620	0.886
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 17	132322	1745	21.51	22.00	1.119	-	-	0.06	0.325	0.364
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 17	132322	1745	21.51	22.00	1.119	-	-	0.15	0.316	0.354
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	132322	1745	21.51	22.00	1.119	-	-	-0.08	0.776	0.869
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 17	132322	1745	21.51	22.00	1.119	-	-	-0.1	0.242	0.271
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	132072	1720	21.23	22.00	1.194	-	-	-0.17	0.767	0.916
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	132572	1770	21.45	22.00	1.135	-	-	-0.13	0.790	0.897
	LTE Band 66	20M	QPSK	100	0	-	Left Side	10mm	Ant 3	DSI 17	132322	1745	21.39	22.00	1.151	-	-	0.05	0.788	0.907
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 17	132322	1745	18.75	19.50	1.189	-	-	-0.09	0.369	0.439
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 17	132322	1745	18.75	19.50	1.189	-	-	0.02	0.419	0.498
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	DSI 17	132322	1745	18.75	19.50	1.189	-	-	0.07	0.060	0.071
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	132322	1745	18.75	19.50	1.189	-	-	-0.17	0.765	0.909
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	132072	1720	18.54	19.50	1.247	-	-	-0.03	0.752	0.938
38	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	132572	1770	18.71	19.50	1.199	-	-	-0.19	0.826	0.991
	LTE Band 66C	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	132572+ 132374	1770+ 1750.2	17.87	19.50	1.455	-	-	0.02	0.662	0.964
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 17	132322	1745	18.73	19.50	1.194	-	-	0.06	0.386	0.461
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 17	132322	1745	18.73	19.50	1.194	-	-	0.15	0.403	0.481
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI 17	132322	1745	18.73	19.50	1.194	-	-	0.19	0.063	0.075
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	132322	1745	18.73	19.50	1.194	-	-	-0.13	0.744	0.888
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	132072	1720	18.55	19.50	1.245	-	-	-0.14	0.731	0.910
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	132572	1770	18.54	19.50	1.247	-	-	-0.13	0.780	0.973
	LTE Band 66	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	DSI 17	132322	1745	18.68	19.50	1.208	-	-	0.14	0.724	0.874
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 8	DSI 17	132322	1745	22.87	23.50	1.156	-	-	0.11	0.307	0.355
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 8	DSI 17	132322	1745	22.87	23.50	1.156	-	-	0.13	0.271	0.313
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	132322	1745	22.87	23.50	1.156	-	-	0.02	0.530	0.613
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	DSI 17	132322	1745	22.87	23.50	1.156	-	-	-0.02	0.116	0.134
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	132072	1720	22.68	23.50	1.208	-	-	-0.09	0.559	0.675
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	132572	1770	22.70	23.50	1.202	-	-	-0.08	0.541	0.650
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	132072+ 132270	1720+ 1739.8	22.54	23.50	1.247	-	-	0.01	0.510	0.636
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 8	DSI 17	132322	1745	22.85	23.50	1.161	-	-	0.06	0.303	0.352
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 8	DSI 17	132322	1745	22.85	23.50	1.161	-	-	0.12	0.263	0.305
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 8	DSI 17	132322	1745	22.85	23.50	1.161	-	-	-0.04	0.512	0.595
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	DSI 17	132322	1745	22.85	23.50	1.161	-	-	0.13	0.111	0.129
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 17	349000	1745	21.48	22.50	1.265	-	-	-0.15	0.440	0.556
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 17	349000	1745	21.48	22.50	1.265	-	-	-0.13	0.488	0.617
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 17	349000	1745	21.48	22.50	1.265	-	-	0.04	0.283	0.358
39	FR1 n66	30M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	349000	1745	21.48	22.50	1.265	-	-	-0.02	0.781	0.988
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 2	DSI 17	349000	1745	21.06	22.50	1.393	-	-	0.19	0.431	0.600
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 2	DSI 17	349000	1745	21.06	22.50	1.393	-	-	0.01	0.446	0.621
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 2	DSI 17	349000	1745	21.06	22.50	1.393	-	-	-0.15	0.264	0.368
	FR1 n66	30M	QPSK	80	40	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	349000	1745	21.06	22.50	1.393	-	-	0.11	0.706	0.984
	FR1 n66	30M	QPSK	160	0	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	349000	1745	21.03	22.50	1.403	-	-	-0.05	0.699	0.981
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 17	349000	1745	22.15	23.00	1.216	-	-	-0.01	0.376	0.457
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 17	349000	1745	22.15	23.00	1.216	-	-	-0.12	0.378	0.460
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 17	349000	1745	22.15	23.00	1.216	-	-	0.08	0.786	0.956
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 17	349000	1745	22.15	23.00	1.216	-	-	-0.07	0.312	0.379
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 3	DSI 17	349000	1745	22.13	23.00	1.222	-	-	0.01	0.370	0.452



	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 3	DSI 17	349000	1745	22.13	23.00	1.222	-	-	0.02	0.372	0.455
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 3	DSI 17	349000	1745	22.13	23.00	1.222	-	-	-0.11	0.722	0.882
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	10mm	Ant 3	DSI 17	349000	1745	22.13	23.00	1.222	-	-	0.03	0.305	0.373
	FR1 n66	30M	QPSK	160	0	DFT-15	Left Side	10mm	Ant 3	DSI 17	349000	1745	22.10	23.00	1.230	-	-	-0.12	0.726	0.893
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	DSI 17	349000	1745	18.58	19.50	1.236	-	-	-0.1	0.334	0.413
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	DSI 17	349000	1745	18.58	19.50	1.236	-	-	0.06	0.360	0.445
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	DSI 17	349000	1745	18.58	19.50	1.236	-	-	-0.09	0.081	0.100
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	DSI 17	349000	1745	18.58	19.50	1.236	-	-	0.12	0.753	0.931
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 4	DSI 17	349000	1745	18.55	19.50	1.245	-	-	0.09	0.345	0.429
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 4	DSI 17	349000	1745	18.55	19.50	1.245	-	-	0.14	0.388	0.483
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 4	DSI 17	349000	1745	18.55	19.50	1.245	-	-	-0.01	0.081	0.101
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	10mm	Ant 4	DSI 17	349000	1745	18.55	19.50	1.245	-	-	0.08	0.769	0.957
	FR1 n66	30M	QPSK	160	0	DFT-15	Top Side	10mm	Ant 4	DSI 17	349000	1745	18.53	19.50	1.250	-	-	0.14	0.738	0.923
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 8	DSI 17	349000	1745	21.66	22.50	1.213	-	-	-0.17	0.241	0.292
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 8	DSI 17	349000	1745	21.66	22.50	1.213	-	-	-0.13	0.207	0.251
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 8	DSI 17	349000	1745	21.66	22.50	1.213	-	-	-0.08	0.517	0.627
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 8	DSI 17	349000	1745	21.66	22.50	1.213	-	-	0.08	0.087	0.106
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 8	DSI 17	349000	1745	21.63	22.50	1.222	-	-	0.12	0.245	0.299
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 8	DSI 17	349000	1745	21.63	22.50	1.222	-	-	-0.06	0.205	0.250
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Side	10mm	Ant 8	DSI 17	349000	1745	21.63	22.50	1.222	-	-	0.04	0.525	0.641
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	10mm	Ant 8	DSI 17	349000	1745	21.63	22.50	1.222	-	-	-0.02	0.086	0.105
1900MHz																				
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Front	10mm	Ant 2	DSI 17	661	1880	23.09	24.50	1.384	-	-	-0.03	0.376	0.520
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Back	10mm	Ant 2	DSI 17	661	1880	23.09	24.50	1.384	-	-	0.07	0.389	0.538
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Left Side	10mm	Ant 2	DSI 17	661	1880	23.09	24.50	1.384	-	-	0.14	0.200	0.277
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Bottom Side	10mm	Ant 2	DSI 17	661	1880	23.09	24.50	1.384	-	-	-0.19	0.547	0.757
40	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Bottom Side	10mm	Ant 2	DSI 17	512	1850.2	23.06	24.50	1.393	-	-	0.1	0.629	0.876
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Bottom Side	10mm	Ant 2	DSI 17	810	1909.8	23.07	24.50	1.390	-	-	0.03	0.613	0.852
	GSM1900	-	-	-	-	DTM Multi-slot class 9	Bottom Side	10mm	Ant 2	DSI 17	512	1850.2	20.30	21.48	1.312	-	-	0.12	0.613	0.804
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Front	10mm	Ant 3	DSI 17	661	1880	23.26	24.50	1.330	-	-	-0.08	0.314	0.418
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Back	10mm	Ant 3	DSI 17	661	1880	23.26	24.50	1.330	-	-	0.09	0.323	0.430
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Left Side	10mm	Ant 3	DSI 17	661	1880	23.26	24.50	1.330	-	-	0.01	0.550	0.732
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Top Side	10mm	Ant 3	DSI 17	661	1880	23.26	24.50	1.330	-	-	-0.07	0.144	0.192
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Left Side	10mm	Ant 3	DSI 17	512	1850.2	23.25	24.50	1.334	-	-	0.13	0.474	0.632
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Left Side	10mm	Ant 3	DSI 17	810	1909.8	23.10	24.50	1.380	-	-	-0.02	0.544	0.751
	GSM1900	-	-	-	-	DTM Multi-slot class 9	Left Side	10mm	Ant 3	DSI 17	810	1909.8	19.85	21.48	1.455	-	-	-0.04	0.512	0.745
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 17	9400	1880	21.35	22.00	1.161	-	-	0.04	0.462	0.537
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 17	9400	1880	21.35	22.00	1.161	-	-	0.12	0.484	0.562
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 17	9400	1880	21.35	22.00	1.161	-	-	0.13	0.234	0.272
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 17	9400	1880	21.35	22.00	1.161	-	-	-0.17	0.737	0.856
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 17	9262	1852.4	21.31	22.00	1.172	-	-	0.17	0.642	0.753
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 17	9538	1907.6	21.17	22.00	1.211	-	-	-0.02	0.774	0.937
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 3	DSI 17	9400	1880	22.23	22.50	1.064	-	-	0.02	0.483	0.514
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 3	DSI 17	9400	1880	22.23	22.50	1.064	-	-	-0.19	0.632	0.673
41	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	DSI 17	9400	1880	22.23	22.50	1.064	-	-	-0.06	0.907	0.965
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 3	DSI 17	9400	1880	22.23	22.50	1.064	-	-	-0.16	0.046	0.049
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	DSI 17	9262	1852.4	22.17	22.50	1.079	-	-	-0.04	0.769	0.830
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 3	DSI 17	9538	1907.6	22.10	22.50	1.096	-	-	0.14	0.848	0.930
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 17	26340	1880	21.03	22.00	1.250	-	-	0.05	0.408	0.510
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 17	26340	1880	21.03	22.00	1.250	-	-	0.02	0.422	0.528
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 17	26340	1880	21.03	22.00	1.250	-	-	0.09	0.225	0.281
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	26340	1880	21.03	22.00	1.250	-	-	0.02	0.735	0.919
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	26140	1860	20.98	22.00	1.265	-	-	-0.11	0.578	0.731
42	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	26590	1905	21.02	22.00	1.253	-	-	-0.18	0.792	0.992
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 17	26340	1880	20.94	22.00	1.276	-	-	0.17	0.422	0.539



Table with columns for LTE Band 25, FR1 n25, and LTE Band 30. Rows include parameters like Modulation (QPSK), Power (20M), Frequency (50, 100), and SAR values (0.424, 0.927, 0.994).



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Table with columns: Band, Power, Modulation, Parameters, Location, Antenna, Frequency, SAR values. Includes rows for LTE Band 30, FR1 n30, and 2600MHz bands. Some cells are highlighted in yellow (e.g., 0.988, 0.999).



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LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	DSI 17	21100	2535	17.39	18.00	1.151	-	-	-0.18	0.125	0.144
LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	21100	2535	17.39	18.00	1.151	-	-	0.01	0.731	0.841
LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	20850	2510	17.33	18.00	1.167	-	-	0.05	0.849	0.991
LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	21350	2560	17.22	18.00	1.197	-	-	0.12	0.651	0.779
LTE Band 7C	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	20850+ 21048	2510+ 2529.8	16.24	18.00	1.500	-	-	0.02	0.624	0.936
LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 17	21100	2535	17.27	18.00	1.183	-	-	0.06	0.217	0.257
LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 17	21100	2535	17.27	18.00	1.183	-	-	0.02	0.261	0.309
LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI 17	21100	2535	17.27	18.00	1.183	-	-	0.07	0.128	0.151
LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	21100	2535	17.27	18.00	1.183	-	-	0.14	0.719	0.851
LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	20850	2510	17.03	18.00	1.250	-	-	0.04	0.792	0.990
LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	21350	2560	17.26	18.00	1.186	-	-	0.06	0.621	0.736
LTE Band 7	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	DSI 17	21100	2535	17.22	18.00	1.197	-	-	0.12	0.684	0.819
LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 8	DSI 17	21100	2535	17.87	18.50	1.156	-	-	0.07	0.190	0.220
LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 8	DSI 17	21100	2535	17.87	18.50	1.156	-	-	-0.07	0.169	0.195
LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	21100	2535	17.87	18.50	1.156	-	-	0.04	0.432	0.499
LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	DSI 17	21100	2535	17.87	18.50	1.156	-	-	-0.16	0.100	0.116
LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	20850	2510	17.86	18.50	1.159	-	-	-0.15	0.602	0.698
LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	21350	2560	17.57	18.50	1.239	-	-	0.02	0.444	0.550
LTE Band 7C	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	20850+ 21048	2510+ 2529.8	17.49	18.50	1.262	-	-	-0.06	0.510	0.644
LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 8	DSI 17	21100	2535	17.80	18.50	1.175	-	-	-0.17	0.194	0.228
LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 8	DSI 17	21100	2535	17.80	18.50	1.175	-	-	-0.15	0.168	0.197
LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 8	DSI 17	21100	2535	17.80	18.50	1.175	-	-	-0.16	0.418	0.491
LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	DSI 17	21100	2535	17.80	18.50	1.175	-	-	-0.06	0.111	0.130
LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 17	40620	2593	23.98	24.50	1.127	62.9	1.006	-0.1	0.400	0.454
LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 17	40620	2593	23.98	24.50	1.127	62.9	1.006	0.11	0.460	0.522
LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 17	40620	2593	23.98	24.50	1.127	62.9	1.006	-0.06	0.227	0.257
LTE Band 41(PC3)	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	40620	2593	23.98	24.50	1.127	62.9	1.006	-0.07	0.665	0.754
LTE Band 41(PC3)	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	39750	2506	23.76	24.50	1.186	62.9	1.006	-0.19	0.646	0.771
LTE Band 41(PC3)	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	40185	2549.5	23.76	24.50	1.186	62.9	1.006	0.18	0.753	0.898
LTE Band 41(PC3)	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	41055	2636.5	23.97	24.50	1.130	62.9	1.006	-0.13	0.725	0.824
LTE Band 41(PC3)	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	41490	2680	23.69	24.50	1.205	62.9	1.006	0.16	0.699	0.847
LTE Band 41(PC2)	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	40185	2549.5	25.39	26.00	1.151	42.9	1.009	-0.14	0.793	0.921
LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 17	40185+ 39987	2549.5+ 2529.7	23.64	24.50	1.219	62.9	1.006	-0.06	0.721	0.884
LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 17	40620	2593	22.97	23.50	1.130	62.9	1.006	0.06	0.294	0.334
LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 17	40620	2593	22.97	23.50	1.130	62.9	1.006	-0.19	0.377	0.428
LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 17	40620	2593	22.97	23.50	1.130	62.9	1.006	-0.09	0.144	0.164
LTE Band 41(PC3)	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	40620	2593	22.97	23.50	1.130	62.9	1.006	0.1	0.545	0.619
LTE Band 41(PC3)	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	39750	2506	22.84	23.50	1.164	62.9	1.006	-0.07	0.500	0.586
LTE Band 41(PC3)	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	40185	2549.5	22.78	23.50	1.180	62.9	1.006	-0.13	0.592	0.703
LTE Band 41(PC3)	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	41055	2636.5	22.95	23.50	1.135	62.9	1.006	0.05	0.554	0.633
LTE Band 41(PC3)	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 17	41490	2680	22.78	23.50	1.180	62.9	1.006	0.04	0.563	0.669
LTE Band 41(PC3)	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 17	40620	2593	22.94	23.50	1.138	62.9	1.006	-0.08	0.533	0.610
LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 17	40620	2593	20.78	21.50	1.180	62.9	1.006	-0.04	0.302	0.359
LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 17	40620	2593	20.78	21.50	1.180	62.9	1.006	-0.07	0.316	0.375
LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	40620	2593	20.78	21.50	1.180	62.9	1.006	-0.08	0.755	0.896
LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 17	40620	2593	20.78	21.50	1.180	62.9	1.006	-0.13	0.062	0.074
LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	39750	2506	20.64	21.50	1.219	62.9	1.006	0.07	0.659	0.808
LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	40185	2549.5	20.62	21.50	1.225	62.9	1.006	-0.09	0.752	0.926
LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	41055	2636.5	20.62	21.50	1.225	62.9	1.006	0.19	0.343	0.423
LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	41490	2680	20.55	21.50	1.245	62.9	1.006	-0.11	0.506	0.634
LTE Band 41(PC2)	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	40185	2549.5	22.84	23.10	1.062	42.9	1.009	0.14	0.781	0.837
LTE Band 41C	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	40185+ 39987	2549.5+ 2529.7	20.61	21.50	1.227	62.9	1.006	-0.07	0.720	0.889
LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 17	40620	2593	20.77	21.50	1.183	62.9	1.006	0.01	0.306	0.364
LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 17	40620	2593	20.77	21.50	1.183	62.9	1.006	-0.1	0.323	0.384
LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	40620	2593	20.77	21.50	1.183	62.9	1.006	-0.07	0.743	0.884



	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 17	40620	2593	20.77	21.50	1.183	62.9	1.006	-0.09	0.055	0.065
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	39750	2506	20.62	21.50	1.225	62.9	1.006	-0.06	0.644	0.793
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	40185	2549.5	20.53	21.50	1.250	62.9	1.006	0.17	0.735	0.924
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	41055	2636.5	20.55	21.50	1.245	62.9	1.006	-0.14	0.350	0.438
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	41490	2680	20.53	21.50	1.250	62.9	1.006	-0.19	0.513	0.645
	LTE Band 41(PC3)	20M	QPSK	100	0	-	Left Side	10mm	Ant 3	DSI 17	40620	2593	20.72	21.50	1.197	62.9	1.006	-0.12	0.622	0.749
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 17	40620	2593	18.66	19.50	1.213	62.9	1.006	-0.11	0.166	0.203
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 17	40620	2593	18.66	19.50	1.213	62.9	1.006	0.07	0.195	0.238
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	DSI 17	40620	2593	18.66	19.50	1.213	62.9	1.006	-0.04	0.103	0.126
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	40620	2593	18.66	19.50	1.213	62.9	1.006	-0.19	0.552	0.674
47	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	39750	2506	18.65	19.50	1.216	62.9	1.006	0.17	0.808	0.989
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	40185	2549.5	18.40	19.50	1.288	62.9	1.006	-0.1	0.597	0.774
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	41055	2636.5	18.37	19.50	1.297	62.9	1.006	-0.13	0.554	0.723
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	41490	2680	17.87	19.50	1.455	62.9	1.006	0.07	0.636	0.931
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	39750	2506	20.58	21.10	1.127	42.9	1.009	0.01	0.841	0.957
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	39750+39948	2506+2525.8	17.85	19.50	1.462	62.9	1.006	-0.04	0.663	0.975
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 17	40620	2593	18.60	19.50	1.230	62.9	1.006	0.08	0.173	0.214
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 17	40620	2593	18.60	19.50	1.230	62.9	1.006	-0.01	0.203	0.251
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI 17	40620	2593	18.60	19.50	1.230	62.9	1.006	-0.02	0.103	0.127
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	40620	2593	18.60	19.50	1.230	62.9	1.006	-0.09	0.541	0.670
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	39750	2506	18.21	19.50	1.346	62.9	1.006	0.02	0.729	0.987
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	40185	2549.5	18.29	19.50	1.321	62.9	1.006	-0.06	0.552	0.734
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	41055	2636.5	18.30	19.50	1.318	62.9	1.006	0.01	0.525	0.696
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	41490	2680	17.78	19.50	1.486	62.9	1.006	-0.1	0.603	0.901
	LTE Band 41(PC3)	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	DSI 17	40620	2593	18.58	19.50	1.236	62.9	1.006	0.09	0.556	0.691
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	10mm	Ant 8	DSI 17	40620	2593	19.07	20.00	1.239	62.9	1.006	0.05	0.191	0.238
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	10mm	Ant 8	DSI 17	40620	2593	19.07	20.00	1.239	62.9	1.006	-0.14	0.164	0.204
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	40620	2593	19.07	20.00	1.239	62.9	1.006	-0.05	0.419	0.522
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	DSI 17	40620	2593	19.07	20.00	1.239	62.9	1.006	0.06	0.081	0.101
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	39750	2506	19.06	20.00	1.242	62.9	1.006	0.11	0.476	0.595
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	40185	2549.5	18.90	20.00	1.288	62.9	1.006	-0.08	0.288	0.373
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	41055	2636.5	18.50	20.00	1.413	62.9	1.006	-0.11	0.377	0.536
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	41490	2680	18.30	20.00	1.479	62.9	1.006	0.18	0.366	0.545
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	39750	2506	21.40	21.60	1.047	42.9	1.009	0.12	0.561	0.593
	LTE Band 41C	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	39750+39948	2506+2525.8	19.00	20.00	1.259	62.9	1.006	-0.05	0.425	0.538
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	10mm	Ant 8	DSI 17	40620	2593	19.01	20.00	1.256	62.9	1.006	0.1	0.198	0.250
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	10mm	Ant 8	DSI 17	40620	2593	19.01	20.00	1.256	62.9	1.006	-0.08	0.173	0.219
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Right Side	10mm	Ant 8	DSI 17	40620	2593	19.01	20.00	1.256	62.9	1.006	-0.04	0.403	0.509
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	DSI 17	40620	2593	19.01	20.00	1.256	62.9	1.006	-0.11	0.087	0.110
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 17	507000	2535	20.28	21.00	1.180	-	-	-0.13	0.248	0.293
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 17	507000	2535	20.28	21.00	1.180	-	-	0.05	0.334	0.394
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 17	507000	2535	20.28	21.00	1.180	-	-	-0.03	0.137	0.162
	FR1 n7	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	507000	2535	20.28	21.00	1.180	-	-	-0.08	0.558	0.659
48	FR1 n7	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	502000	2510	20.27	21.00	1.183	-	-	0.04	0.813	0.962
	FR1 n7	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	512000	2560	20.26	21.00	1.186	-	-	0.13	0.626	0.742
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 2	DSI 17	507000	2535	20.25	21.00	1.189	-	-	0.18	0.265	0.315
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 2	DSI 17	507000	2535	20.25	21.00	1.189	-	-	-0.15	0.364	0.433
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 2	DSI 17	507000	2535	20.25	21.00	1.189	-	-	-0.13	0.150	0.178
	FR1 n7	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	507000	2535	20.25	21.00	1.189	-	-	-0.02	0.531	0.631
	FR1 n7	20M	QPSK	100	0	DFT-15	Bottom Side	10mm	Ant 2	DSI 17	507000	2535	20.23	21.00	1.194	-	-	0.01	0.542	0.647
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 17	507000	2535	19.80	20.50	1.175	-	-	-0.09	0.362	0.425
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 17	507000	2535	19.80	20.50	1.175	-	-	0.03	0.367	0.431
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 17	507000	2535	19.80	20.50	1.175	-	-	0.05	0.716	0.841
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 17	507000	2535	19.80	20.50	1.175	-	-	-0.13	0.081	0.095
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 17	502000	2510	19.48	20.50	1.265	-	-	-0.02	0.658	0.832



FCC SAR Test Report

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	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 17	518598	2592.99	17.14	18.00	1.219	-	-	-0.17	0.717	0.874
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Top Side	10mm	Ant 4	DSI 17	518598	2592.99	17.11	18.00	1.227	-	-	-0.01	0.624	0.766
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 17	518598	2592.99	16.93	18.00	1.279	-	-	-0.15	0.169	0.216
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 17	518598	2592.99	16.93	18.00	1.279	-	-	-0.01	0.171	0.219
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 17	518598	2592.99	16.93	18.00	1.279	-	-	0.08	0.482	0.617
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 17	518598	2592.99	16.93	18.00	1.279	-	-	0.12	0.075	0.096
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 17	518598	2592.99	16.90	18.00	1.288	-	-	-0.06	0.195	0.251
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 17	518598	2592.99	16.90	18.00	1.288	-	-	-0.1	0.196	0.252
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 17	518598	2592.99	16.90	18.00	1.288	-	-	0.15	0.536	0.691
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 17	518598	2592.99	16.90	18.00	1.288	-	-	-0.09	0.099	0.128
3500MHz																				
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 17	55830	3609	20.11	21.50	1.377	62.9	1.006	0.12	0.328	0.454
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 17	55830	3609	20.11	21.50	1.377	62.9	1.006	-0.01	0.280	0.388
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	55830	3609	20.11	21.50	1.377	62.9	1.006	-0.18	0.663	0.919
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 17	55830	3609	20.11	21.50	1.377	62.9	1.006	0.08	0.066	0.091
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	55340	3560	19.73	21.50	1.503	62.9	1.006	0.07	0.523	0.791
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	56150	3641	19.97	21.50	1.422	62.9	1.006	-0.13	0.641	0.917
50	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 17	56640	3690	20.10	21.50	1.380	62.9	1.006	-0.11	0.687	0.954
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 17	55830	3609	20.09	21.50	1.384	62.9	1.006	0.1	0.343	0.477
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 17	55830	3609	20.09	21.50	1.384	62.9	1.006	0.19	0.285	0.397
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	55830	3609	20.09	21.50	1.384	62.9	1.006	0.1	0.644	0.896
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 17	55830	3609	20.09	21.50	1.384	62.9	1.006	-0.06	0.063	0.088
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	55340	3560	19.65	21.50	1.531	62.9	1.006	0.05	0.606	0.933
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	56150	3641	19.92	21.50	1.439	62.9	1.006	-0.13	0.633	0.916
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 17	56640	3690	20.07	21.50	1.390	62.9	1.006	0.06	0.665	0.930
	LTE Band 48 Part 96	20M	QPSK	100	0	-	Left Side	10mm	Ant 3	DSI 17	55830	3609	20.06	21.50	1.393	62.9	1.006	0.07	0.636	0.891
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 17	55830	3609	22.69	23.50	1.205	62.9	1.006	0.15	0.309	0.375
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 17	55830	3609	22.69	23.50	1.205	62.9	1.006	0.06	0.439	0.532
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	DSI 17	55830	3609	22.69	23.50	1.205	62.9	1.006	-0.07	0.165	0.200
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	55830	3609	22.69	23.50	1.205	62.9	1.006	0.03	0.667	0.809
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	55340	3560	22.66	23.50	1.213	62.9	1.006	0.06	0.599	0.731
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	56150	3641	22.61	23.50	1.227	62.9	1.006	-0.19	0.575	0.710
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 17	56640	3690	22.59	23.50	1.233	62.9	1.006	-0.11	0.563	0.698
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 17	55830	3609	22.68	23.50	1.208	62.9	1.006	-0.14	0.328	0.399
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 17	55830	3609	22.68	23.50	1.208	62.9	1.006	0.01	0.451	0.548
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI 17	55830	3609	22.68	23.50	1.208	62.9	1.006	-0.14	0.171	0.208
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	55830	3609	22.68	23.50	1.208	62.9	1.006	0.05	0.666	0.809
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	55340	3560	22.61	23.50	1.227	62.9	1.006	-0.06	0.624	0.771
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	56150	3641	22.59	23.50	1.233	62.9	1.006	-0.08	0.603	0.748
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 17	56640	3690	22.58	23.50	1.236	62.9	1.006	0.12	0.596	0.741
	LTE Band 48 Part 96	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	DSI 17	55830	3609	22.61	23.50	1.227	62.9	1.006	-0.13	0.651	0.804
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 17	55830	3609	19.16	20.00	1.213	62.9	1.006	0.06	0.145	0.177
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 17	55830	3609	19.16	20.00	1.213	62.9	1.006	0.14	0.173	0.211
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 17	55830	3609	19.16	20.00	1.213	62.9	1.006	0.18	0.364	0.444
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	DSI 17	55830	3609	19.16	20.00	1.213	62.9	1.006	0.15	0.046	0.056
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 17	55340	3560	18.70	20.00	1.349	62.9	1.006	-0.02	0.318	0.432
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 17	56150	3641	19.15	20.00	1.216	62.9	1.006	-0.02	0.344	0.421
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 17	56640	3690	18.83	20.00	1.309	62.9	1.006	-0.07	0.423	0.557
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 17	55830	3609	19.15	20.00	1.216	62.9	1.006	-0.03	0.156	0.191
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 17	55830	3609	19.15	20.00	1.216	62.9	1.006	0.01	0.177	0.217
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	DSI 17	55830	3609	19.15	20.00	1.216	62.9	1.006	0.16	0.352	0.431
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	DSI 17	55830	3609	19.15	20.00	1.216	62.9	1.006	-0.01	0.047	0.058
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	10mm	Ant 8	DSI 17	55830	3609	20.16	21.50	1.361	62.9	1.006	-0.06	0.146	0.200
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	10mm	Ant 8	DSI 17	55830	3609	20.16	21.50	1.361	62.9	1.006	0.08	0.171	0.234
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Right Side	10mm	Ant 8	DSI 17	55830	3609	20.16	21.50	1.361	62.9	1.006	0.18	0.388	0.531
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	DSI 17	55830	3609	20.16	21.50	1.361	62.9	1.006	-0.11	0.055	0.075



FCC SAR Test Report

Report No. : FA330214

Table with 22 columns: Band, Modulation, Power, etc. Includes rows for LTE Band 48 Part 96 and FR1 n77 Part 27Q(PC2) with various test parameters and SAR values.



FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 17	656000	3840	17.35	18.50	1.303	-	-	-0.01	0.235	0.306
FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 17	656000	3840	17.35	18.50	1.303	-	-	0.13	0.483	0.629
FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 17	656000	3840	17.35	18.50	1.303	-	-	0.17	0.043	0.056
FR1 n77 Part 27O(PC2)	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant 6	DSI 17	656000	3840	17.33	18.50	1.309	-	-	0.07	0.485	0.635
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 17	633332	3499.98	17.65	19.00	1.365	-	-	-0.06	0.128	0.175
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 17	633332	3499.98	17.65	19.00	1.365	-	-	-0.11	0.137	0.187
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 17	633332	3499.98	17.65	19.00	1.365	-	-	0.16	0.295	0.403
FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 17	633332	3499.98	17.65	19.00	1.365	-	-	0.13	0.042	0.057
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 17	633332	3499.98	17.63	19.00	1.371	-	-	-0.08	0.123	0.169
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 17	633332	3499.98	17.63	19.00	1.371	-	-	0.08	0.133	0.182
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 17	633332	3499.98	17.63	19.00	1.371	-	-	-0.03	0.311	0.426
FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 17	633332	3499.98	17.63	19.00	1.371	-	-	-0.07	0.050	0.069
FR1 n77 Part 27O(PC2)	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 17	656000	3840	18.03	19.00	1.250	-	-	0.19	0.189	0.236
FR1 n77 Part 27O(PC2)	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 17	656000	3840	18.03	19.00	1.250	-	-	0.02	0.231	0.289
FR1 n77 Part 27O(PC2)	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 17	656000	3840	18.03	19.00	1.250	-	-	-0.07	0.431	0.539
FR1 n77 Part 27O(PC2)	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 17	656000	3840	18.03	19.00	1.250	-	-	-0.17	0.065	0.081
FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 17	656000	3840	18.00	19.00	1.259	-	-	-0.02	0.196	0.247
FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 17	656000	3840	18.00	19.00	1.259	-	-	-0.19	0.245	0.308
FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 17	656000	3840	18.00	19.00	1.259	-	-	-0.06	0.459	0.578
FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 17	656000	3840	18.00	19.00	1.259	-	-	-0.17	0.066	0.083
FR1 n77 Part 27O(PC2)	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant 8	DSI 17	656000	3840	17.98	19.00	1.265	-	-	0.12	0.455	0.575



Table with columns: 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). Includes sections for 2450MHz and 5000MHz.



FCC SAR Test Report

Report No. : FA330214

	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 2	42	5210	12.68	14.00	1.355	100	1.000	0.02	0.424	0.575
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	0.12	0.120	0.163
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	0.1	0.088	0.120
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	-0.05	0.068	0.093
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	0.02	0.198	0.270
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5+6(5)	Power Level 1	151	5755	16.33	18.00	1.469	100	1.000	-0.08	0.471	0.692
55	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5+6(5)	Power Level 1	151	5755	16.33	18.00	1.469	100	1.000	0.13	0.747	1.097
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5+6(5)	Power Level 1	151	5755	16.33	18.00	1.469	100	1.000	0.17	0.468	0.687
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 1	151	5755	16.33	18.00	1.469	100	1.000	0.12	0.485	0.712
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5+6(5)	Power Level 1	159	5795	16.12	18.00	1.542	100	1.000	-0.05	0.368	0.567
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5+6(5)	Power Level 2	155	5775	13.62	15.50	1.542	100	1.000	-0.08	0.196	0.302
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5+6(5)	Power Level 2	155	5775	13.62	15.50	1.542	100	1.000	0.13	0.381	0.587
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5+6(5)	Power Level 2	155	5775	13.62	15.50	1.542	100	1.000	0.17	0.230	0.355
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 2	155	5775	13.62	15.50	1.542	100	1.000	0.12	0.248	0.382
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5+6(5)	Power Level 3	155	5775	10.64	12.50	1.535	100	1.000	-0.08	0.103	0.158
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5+6(5)	Power Level 3	155	5775	10.64	12.50	1.535	100	1.000	0.13	0.169	0.259
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5+6(5)	Power Level 3	155	5775	10.64	12.50	1.535	100	1.000	0.17	0.117	0.180
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 3	155	5775	10.64	12.50	1.535	100	1.000	0.12	0.129	0.198

16.3 Body Worn Accessory 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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 15/16	23095	707.5	23.44	24.50	1.276	-	-	0.01	0.197	0.251
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 15/16	23095	707.5	23.44	24.50	1.276	-	-	-0.09	0.207	0.264
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 15/16	23095	707.5	22.46	23.50	1.271	-	-	-0.08	0.163	0.207
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 15/16	23095	707.5	22.46	23.50	1.271	-	-	0.06	0.173	0.220
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 15/16	23095	707.5	23.39	24.50	1.291	-	-	-0.18	0.321	0.414
56	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 15/16	23095	707.5	23.39	24.50	1.291	-	-	0.07	0.348	0.449
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 1	DSI 15/16	23095	707.5	22.47	23.50	1.268	-	-	0.02	0.267	0.338
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 1	DSI 15/16	23095	707.5	22.47	23.50	1.268	-	-	-0.13	0.294	0.373
	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 15/16	133297	680.5	23.80	24.50	1.175	-	-	0.05	0.198	0.233
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 15/16	133297	680.5	23.80	24.50	1.175	-	-	0.05	0.207	0.243
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI 15/16	133297	680.5	22.56	23.50	1.242	-	-	-0.07	0.165	0.205
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI 15/16	133297	680.5	22.56	23.50	1.242	-	-	-0.07	0.174	0.216
	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 15/16	133297	680.5	23.73	24.50	1.194	-	-	0.18	0.427	0.510
57	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 15/16	133297	680.5	23.73	24.50	1.194	-	-	0.06	0.431	0.515
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 15/16	133297	680.5	22.48	23.50	1.265	-	-	0.09	0.328	0.415
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 15/16	133297	680.5	22.48	23.50	1.265	-	-	0.14	0.339	0.429
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 15/16	141500	707.5	23.55	24.50	1.245	-	-	0.08	0.209	0.260
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 15/16	141500	707.5	23.55	24.50	1.245	-	-	0.01	0.218	0.271
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 0	DSI 15/16	141500	707.5	23.26	24.50	1.330	-	-	0.18	0.218	0.290
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 0	DSI 15/16	141500	707.5	23.26	24.50	1.330	-	-	0.04	0.220	0.293
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 15/16	141500	707.5	23.66	24.50	1.213	-	-	-0.03	0.353	0.428
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 15/16	141500	707.5	23.66	24.50	1.213	-	-	-0.11	0.369	0.448
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 1	DSI 15/16	141500	707.5	23.50	24.50	1.259	-	-	0.01	0.357	0.449
58	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 1	DSI 15/16	141500	707.5	23.50	24.50	1.259	-	-	-0.09	0.404	0.509
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 15/16	136100	680.5	23.60	24.50	1.230	-	-	0.07	0.158	0.194
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 15/16	136100	680.5	23.60	24.50	1.230	-	-	-0.19	0.159	0.196
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 15/16	136100	680.5	23.39	24.50	1.291	-	-	0.09	0.153	0.198
	FR1 n71	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 15/16	136100	680.5	23.39	24.50	1.291	-	-	0.04	0.154	0.199
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 15/16	136100	680.5	23.43	24.50	1.279	-	-	0.16	0.502	0.642
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 15/16	136100	680.5	23.43	24.50	1.279	-	-	0.12	0.509	0.651
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 1	DSI 15/16	136100	680.5	23.21	24.50	1.346	-	-	0.11	0.502	0.676
59	FR1 n71	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	DSI 15/16	136100	680.5	23.21	24.50	1.346	-	-	-0.07	0.518	0.697
835MHz																				
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	15mm	Ant 0	DSI 15/16	189	836.4	26.51	27.50	1.256	-	-	-0.08	0.157	0.197
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 0	DSI 15/16	189	836.4	26.51	27.50	1.256	-	-	-0.07	0.163	0.205
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 0	DSI 15/16	128	824.2	26.33	27.50	1.309	-	-	0.18	0.186	0.244
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 0	DSI 15/16	251	848.8	26.49	27.50	1.262	-	-	0.07	0.174	0.220
	GSM850	-	-	-	-	DTM Multi-slot class 9	Back	15mm	Ant 0	DSI 15/16	128	824.2	23.00	24.48	1.406	-	-	0.12	0.166	0.233
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	15mm	Ant 1	DSI 15/16	189	836.4	26.24	27.50	1.337	-	-	0.04	0.471	0.630
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 1	DSI 15/16	189	836.4	26.24	27.50	1.337	-	-	0.06	0.490	0.655
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 1	DSI 15/16	128	824.2	26.23	27.50	1.340	-	-	-0.03	0.340	0.455
60	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 1	DSI 15/16	251	848.8	26.12	27.50	1.374	-	-	-0.17	0.596	0.819
	GSM850	-	-	-	-	DTM Multi-slot class 9	Back	15mm	Ant 1	DSI 15/16	251	848.8	23.08	24.48	1.380	-	-	-0.11	0.583	0.805
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 15/16	4182	836.4	24.19	25.00	1.205	-	-	-0.15	0.216	0.260
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 15/16	4182	836.4	24.19	25.00	1.205	-	-	0.11	0.221	0.266
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 15/16	4132	826.4	24.16	25.00	1.213	-	-	-0.04	0.210	0.255
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 15/16	4233	846.6	24.18	25.00	1.208	-	-	-0.08	0.210	0.254
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 15/16	4182	836.4	24.28	25.00	1.180	-	-	0.1	0.461	0.544
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 15/16	4182	836.4	24.28	25.00	1.180	-	-	0.08	0.480	0.567



Table with columns for Band, Power, Modulation, etc. Includes rows for LTE Band 66, FR1 n66, GSM1900, WCDMA II, and LTE Band 25. Some cells are highlighted in yellow (e.g., 1.026, 0.304, 0.624, 0.529).



	LTE Band 25	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 15/16	26340	1880	22.92	23.50	1.143	-	-	0.17	0.368	0.421
	FR1 n25	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 15/16	376500	1882.5	20.60	21.50	1.230	-	-	0.19	0.386	0.475
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 15/16	376500	1882.5	20.60	21.50	1.230	-	-	0.18	0.411	0.506
	FR1 n25	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 2	DSI 15/16	376500	1882.5	20.57	21.50	1.239	-	-	0.06	0.412	0.510
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	DSI 15/16	376500	1882.5	20.57	21.50	1.239	-	-	-0.16	0.424	0.525
70	FR1 n25	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	DSI 15/16	372000	1860	20.53	21.50	1.250	-	-	0.17	0.438	0.548
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	DSI 15/16	381000	1905	20.50	21.50	1.259	-	-	0.18	0.274	0.345
	FR1 n25	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 15/16	376500	1882.5	23.60	24.50	1.230	-	-	0.13	0.242	0.298
	FR1 n25	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 15/16	376500	1882.5	23.60	24.50	1.230	-	-	0.14	0.253	0.311
	FR1 n25	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 3	DSI 15/16	376500	1882.5	23.25	24.50	1.334	-	-	-0.13	0.247	0.329
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 3	DSI 15/16	376500	1882.5	23.25	24.50	1.334	-	-	-0.09	0.253	0.337
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 3	DSI 15/16	372000	1860	23.06	24.50	1.393	-	-	0.17	0.260	0.362
	FR1 n25	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 3	DSI 15/16	381000	1905	22.89	24.50	1.449	-	-	-0.16	0.264	0.382
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 15/16	27710	2310	22.01	22.50	1.119	-	-	-0.04	0.199	0.223
	LTE Band 30	10M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	27710	2310	22.01	22.50	1.119	-	-	-0.04	0.224	0.251
	LTE Band 30	10M	QPSK	25	0	-	Front	15mm	Ant 2	DSI 15/16	27710	2310	21.78	22.50	1.180	-	-	-0.04	0.199	0.235
	LTE Band 30	10M	QPSK	25	0	-	Back	15mm	Ant 2	DSI 15/16	27710	2310	21.78	22.50	1.180	-	-	-0.05	0.223	0.263
71	LTE Band 30	10M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 15/16	27710	2310	23.70	24.50	1.202	-	-	-0.01	0.351	0.422
	LTE Band 30	10M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	27710	2310	23.70	24.50	1.202	-	-	-0.18	0.327	0.393
	LTE Band 30	10M	QPSK	25	0	-	Front	15mm	Ant 3	DSI 15/16	27710	2310	22.71	23.50	1.199	-	-	-0.07	0.279	0.335
	LTE Band 30	10M	QPSK	25	0	-	Back	15mm	Ant 3	DSI 15/16	27710	2310	22.71	23.50	1.199	-	-	0.13	0.267	0.320
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 15/16	462000	2310	22.00	23.00	1.259	-	-	-0.1	0.286	0.360
72	FR1 n30	10M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 15/16	462000	2310	22.00	23.00	1.259	-	-	-0.06	0.348	0.438
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	15mm	Ant 2	DSI 15/16	462000	2310	21.75	23.00	1.334	-	-	-0.08	0.273	0.364
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	15mm	Ant 2	DSI 15/16	462000	2310	21.75	23.00	1.334	-	-	0.02	0.313	0.417
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 15/16	462000	2310	23.68	24.50	1.208	-	-	-0.18	0.231	0.279
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 15/16	462000	2310	23.68	24.50	1.208	-	-	0.02	0.217	0.262
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	15mm	Ant 3	DSI 15/16	462000	2310	23.60	24.50	1.230	-	-	0.03	0.223	0.274
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	15mm	Ant 3	DSI 15/16	462000	2310	23.60	24.50	1.230	-	-	-0.13	0.209	0.257
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 15/16	21100	2535	20.72	21.50	1.197	-	-	0.15	0.155	0.185
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	21100	2535	20.72	21.50	1.197	-	-	0.14	0.198	0.237
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 15/16	21100	2535	20.64	21.50	1.219	-	-	0.18	0.151	0.184
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 15/16	21100	2535	20.64	21.50	1.219	-	-	-0.18	0.195	0.238
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 15/16	20850	2510	20.52	21.50	1.253	-	-	0.18	0.204	0.256
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 15/16	21350	2560	20.62	21.50	1.225	-	-	0.1	0.238	0.291
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	21350+21152	2560+2540.2	20.42	21.50	1.282	-	-	0.06	0.183	0.235
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 15/16	21100	2535	23.98	24.50	1.127	-	-	-0.04	0.451	0.508
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	21100	2535	23.98	24.50	1.127	-	-	-0.12	0.453	0.511
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	20850	2510	23.89	24.50	1.151	-	-	0.07	0.437	0.503
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	21350	2560	23.96	24.50	1.132	-	-	0.17	0.464	0.525
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	21350+21152	2560+2540.2	22.98	24.50	1.419	-	-	0.09	0.360	0.511
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 15/16	21100	2535	23.07	23.50	1.104	-	-	0.18	0.371	0.410
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 15/16	21100	2535	23.07	23.50	1.104	-	-	0.12	0.376	0.415
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 15	21100	2535	22.07	23.00	1.239	-	-	-0.11	0.366	0.453
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	21100	2535	22.07	23.00	1.239	-	-	0.13	0.677	0.839
73	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	20850	2510	21.92	23.00	1.282	-	-	0.09	0.674	0.864
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	21350	2560	21.92	23.00	1.282	-	-	-0.01	0.550	0.705
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	20850+21048	2510+2529.8	21.28	23.00	1.486	-	-	-0.06	0.421	0.626
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 15	21100	2535	22.06	23.00	1.242	-	-	0.09	0.355	0.441
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 15	21100	2535	22.06	23.00	1.242	-	-	0.13	0.574	0.713
	LTE Band 7	20M	QPSK	100	0	-	Front	15mm	Ant 4	DSI 15	21100	2535	22.00	23.00	1.259	-	-	-0.13	0.558	0.702
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 8	DSI 15	21100	2535	21.30	22.00	1.175	-	-	0.09	0.179	0.210
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	21100	2535	21.30	22.00	1.175	-	-	0.16	0.188	0.221



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	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	20850	2510	21.23	22.00	1.194	-	-	-0.03	0.220	0.263
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	21350	2560	21.21	22.00	1.199	-	-	0.13	0.233	0.279
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	21350+ 21152	2560+ 2540.2	20.82	22.00	1.312	-	-	0.01	0.176	0.231
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 8	DSI 15	21100	2535	21.28	22.00	1.180	-	-	0.19	0.156	0.184
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 8	DSI 15	21100	2535	21.28	22.00	1.180	-	-	0.13	0.158	0.186
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 15/16	40620	2593	23.98	24.50	1.127	62.9	1.006	-0.19	0.176	0.200
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	40620	2593	23.98	24.50	1.127	62.9	1.006	-0.01	0.201	0.228
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	39750	2506	23.76	24.50	1.186	62.9	1.006	-0.05	0.229	0.273
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	40185	2549.5	23.76	24.50	1.186	62.9	1.006	0.07	0.231	0.276
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	41055	2636.5	23.97	24.50	1.130	62.9	1.006	-0.05	0.218	0.248
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	41490	2680	23.69	24.50	1.205	62.9	1.006	-0.12	0.229	0.278
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	41490	2680	25.26	26.00	1.186	42.9	1.009	-0.05	0.232	0.278
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 15/16	40490+ 41292	2680+ 2660.2	23.66	24.50	1.213	62.9	1.006	0.02	0.216	0.264
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 15/16	40620	2593	22.97	23.50	1.130	62.9	1.006	-0.11	0.135	0.153
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 15/16	40620	2593	22.97	23.50	1.130	62.9	1.006	-0.19	0.166	0.189
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 15/16	40620	2593	23.86	24.50	1.159	62.9	1.006	-0.06	0.276	0.322
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	40620	2593	23.86	24.50	1.159	62.9	1.006	0.08	0.305	0.356
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	39750	2506	23.78	24.50	1.180	62.9	1.006	-0.04	0.258	0.306
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	40185	2549.5	23.60	24.50	1.230	62.9	1.006	-0.07	0.291	0.360
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	41055	2636.5	23.49	24.50	1.262	62.9	1.006	0.11	0.160	0.203
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	41490	2680	23.62	24.50	1.225	62.9	1.006	0.16	0.228	0.281
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	40185	2549.5	25.23	26.00	1.194	42.9	1.009	-0.17	0.316	0.381
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	40185+ 39987	2549.5+ 2529.7	23.58	24.50	1.236	62.9	1.006	0.04	0.301	0.374
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 15/16	40620	2593	22.68	23.50	1.208	62.9	1.006	0.08	0.225	0.273
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 15/16	40620	2593	22.68	23.50	1.208	62.9	1.006	0.18	0.234	0.284
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 15	40620	2593	22.77	23.50	1.183	62.9	1.006	0.15	0.223	0.265
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	40620	2593	22.77	23.50	1.183	62.9	1.006	0.16	0.397	0.472
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	39750	2506	22.36	23.50	1.300	62.9	1.006	0.14	0.446	0.583
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	40185	2549.5	22.52	23.50	1.253	62.9	1.006	-0.05	0.425	0.536
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	41055	2636.5	22.40	23.50	1.288	62.9	1.006	-0.03	0.382	0.495
74	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	41490	2680	22.11	23.50	1.377	62.9	1.006	0.02	0.472	0.654
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	41490	2680	24.13	25.10	1.250	42.9	1.009	0.07	0.477	0.602
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15	41490+ 41292	2680+ 2660.2	21.81	23.50	1.476	62.9	1.006	0.07	0.308	0.457
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 15	40620	2593	22.61	23.50	1.227	62.9	1.006	0.01	0.209	0.258
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 15	40620	2593	22.61	23.50	1.227	62.9	1.006	0.01	0.382	0.472
	LTE Band 41(PC3)	20M	QPSK	100	0	-	Back	15mm	Ant 4	DSI 15	40620	2593	22.53	23.50	1.250	62.9	1.006	0.09	0.375	0.472
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Front	15mm	Ant 8	DSI 15	40620	2593	22.21	23.00	1.199	62.9	1.006	-0.09	0.151	0.182
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	40620	2593	22.21	23.00	1.199	62.9	1.006	-0.04	0.173	0.209
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	39750	2506	22.17	23.00	1.211	62.9	1.006	0.1	0.148	0.180
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	40185	2549.5	22.12	23.00	1.225	62.9	1.006	0.09	0.110	0.136
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	41055	2636.5	21.65	23.00	1.365	62.9	1.006	0.12	0.136	0.187
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	41490	2680	21.47	23.00	1.422	62.9	1.006	-0.14	0.138	0.197
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	40620	2593	24.00	24.60	1.148	42.9	1.009	0.14	0.164	0.190
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15	40620+ 40422	2593+ 2573.2	22.20	23.00	1.202	62.9	1.006	0.06	0.126	0.152
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Front	15mm	Ant 8	DSI 15	40620	2593	22.16	23.00	1.213	62.9	1.006	-0.06	0.145	0.177
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Back	15mm	Ant 8	DSI 15	40620	2593	22.16	23.00	1.213	62.9	1.006	-0.01	0.167	0.204
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 15/16	507000	2535	20.28	21.00	1.180	-	-	0.09	0.101	0.119
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 15/16	507000	2535	20.28	21.00	1.180	-	-	0.05	0.123	0.145
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 2	DSI 15/16	507000	2535	20.25	21.00	1.189	-	-	0.18	0.131	0.156
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	DSI 15/16	507000	2535	20.25	21.00	1.189	-	-	-0.17	0.163	0.194
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	DSI 15/16	502000	2510	20.23	21.00	1.194	-	-	0.08	0.141	0.168
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	DSI 15/16	512000	2560	20.21	21.00	1.199	-	-	-0.14	0.127	0.152
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 15/16	507000	2535	23.54	24.50	1.247	-	-	-0.02	0.394	0.491
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 15/16	507000	2535	23.54	24.50	1.247	-	-	0.03	0.406	0.506



	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 15/16	502000	2510	23.12	24.50	1.374	-	-	-0.09	0.334	0.459
75	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 15/16	512000	2560	23.22	24.50	1.343	-	-	-0.03	0.586	0.787
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 3	DSI 15/16	507000	2535	23.50	24.50	1.259	-	-	-0.03	0.366	0.461
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 3	DSI 15/16	507000	2535	23.50	24.50	1.259	-	-	-0.17	0.377	0.475
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	DSI 15	507000	2535	20.31	21.50	1.315	-	-	0.04	0.307	0.404
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	DSI 15	507000	2535	20.31	21.50	1.315	-	-	0.01	0.560	0.737
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	DSI 15	502000	2510	19.96	21.50	1.426	-	-	0.17	0.291	0.415
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	DSI 15	512000	2560	20.20	21.50	1.349	-	-	-0.11	0.336	0.453
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 4	DSI 15	507000	2535	20.17	21.50	1.358	-	-	0.04	0.285	0.387
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	DSI 15	507000	2535	20.17	21.50	1.358	-	-	-0.16	0.372	0.505
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 8	DSI 15	507000	2535	19.96	21.00	1.271	-	-	-0.02	0.159	0.202
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 8	DSI 15	507000	2535	19.96	21.00	1.271	-	-	0.02	0.162	0.206
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 8	DSI 15	507000	2535	19.78	21.00	1.324	-	-	0.11	0.158	0.209
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 8	DSI 15	507000	2535	19.78	21.00	1.324	-	-	0.1	0.159	0.211
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 8	DSI 15	502000	2510	19.71	21.00	1.346	-	-	-0.07	0.125	0.168
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 8	DSI 15	512000	2560	19.73	21.00	1.340	-	-	-0.08	0.173	0.232
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 15	518598	2592.99	19.95	21.00	1.274	-	-	-0.02	0.087	0.111
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 15	518598	2592.99	19.95	21.00	1.274	-	-	-0.1	0.096	0.122
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 15	518598	2592.99	19.87	21.00	1.297	-	-	0.1	0.100	0.130
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 15	518598	2592.99	19.87	21.00	1.297	-	-	-0.06	0.127	0.165
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 15/16	518598	2592.99	25.20	26.00	1.202	-	-	-0.08	0.409	0.492
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 15/16	518598	2592.99	25.20	26.00	1.202	-	-	-0.1	0.568	0.683
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 15/16	518598	2592.99	25.02	26.00	1.253	-	-	0.1	0.576	0.722
76	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 15/16	518598	2592.99	25.02	26.00	1.253	-	-	-0.01	0.780	0.977
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Front	15mm	Ant 3	DSI 15/16	518598	2592.99	23.90	25.00	1.288	-	-	0.09	0.469	0.604
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 3	DSI 15/16	518598	2592.99	23.90	25.00	1.288	-	-	-0.01	0.705	0.908
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 15	518598	2592.99	19.65	20.50	1.216	-	-	0.12	0.280	0.341
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 15	518598	2592.99	19.65	20.50	1.216	-	-	0.02	0.466	0.567
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 15	518598	2592.99	19.53	20.50	1.250	-	-	0.18	0.293	0.366
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 15	518598	2592.99	19.53	20.50	1.250	-	-	-0.14	0.533	0.666
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 4	DSI 15	518598	2592.99	19.50	20.50	1.259	-	-	0.05	0.471	0.593
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 15	518598	2592.99	20.08	21.00	1.236	-	-	0.17	0.123	0.152
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 15	518598	2592.99	20.08	21.00	1.236	-	-	0.02	0.132	0.163
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 15	518598	2592.99	19.98	21.00	1.265	-	-	0.15	0.176	0.223
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 15	518598	2592.99	19.98	21.00	1.265	-	-	-0.15	0.180	0.228
3500MHz																				
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 15/16	55830	3609	23.07	24.50	1.390	62.9	1.006	0.18	0.246	0.344
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	55830	3609	23.07	24.50	1.390	62.9	1.006	0.14	0.270	0.378
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	55340	3560	22.90	24.50	1.445	62.9	1.006	-0.13	0.232	0.337
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	56150	3641	22.96	24.50	1.426	62.9	1.006	0.03	0.291	0.417
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 15/16	56640	3690	23.04	24.50	1.400	62.9	1.006	0.04	0.302	0.425
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 15/16	55830	3609	22.28	23.50	1.324	62.9	1.006	-0.06	0.212	0.282
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 15/16	55830	3609	22.28	23.50	1.324	62.9	1.006	-0.08	0.228	0.304
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 15/16	55830	3609	23.47	24.50	1.268	62.9	1.006	-0.06	0.194	0.247
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15/16	55830	3609	23.47	24.50	1.268	62.9	1.006	-0.07	0.325	0.414
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15/16	55340	3560	23.45	24.50	1.274	62.9	1.006	-0.06	0.313	0.401
77	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15/16	56150	3641	23.45	24.50	1.274	62.9	1.006	0.07	0.360	0.461
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 15/16	56640	3690	23.45	24.50	1.274	62.9	1.006	-0.19	0.315	0.404
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 15/16	55830	3609	22.79	23.50	1.178	62.9	1.006	0.1	0.160	0.190
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 15/16	55830	3609	22.79	23.50	1.178	62.9	1.006	-0.02	0.268	0.317
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	15mm	Ant 6	DSI 15/16	55830	3609	20.93	22.50	1.435	62.9	1.006	0.06	0.140	0.202
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 6	DSI 15/16	55830	3609	20.93	22.50	1.435	62.9	1.006	0.04	0.169	0.244
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 6	DSI 15/16	55340	3560	20.52	22.50	1.578	62.9	1.006	0.06	0.165	0.262
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 6	DSI 15/16	56150	3641	20.53	22.50	1.574	62.9	1.006	0.18	0.177	0.280
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 6	DSI 15/16	56640	3690	20.51	22.50	1.581	62.9	1.006	0.13	0.190	0.302
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	15mm	Ant 6	DSI 15/16	55830	3609	19.92	21.50	1.439	62.9	1.006	0.03	0.120	0.174



	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	15mm	Ant 6	DSI 15/16	55830	3609	19.92	21.50	1.439	62.9	1.006	0.18	0.137	0.198
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Front	15mm	Ant 8	DSI 15/16	55830	3609	21.75	23.50	1.496	62.9	1.006	0.17	0.123	0.185
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15/16	55830	3609	21.75	23.50	1.496	62.9	1.006	-0.03	0.128	0.193
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15/16	55340	3560	21.58	23.50	1.556	62.9	1.006	0.08	0.111	0.174
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15/16	56150	3641	21.69	23.50	1.517	62.9	1.006	0.01	0.141	0.215
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Back	15mm	Ant 8	DSI 15/16	56640	3690	21.74	23.50	1.500	62.9	1.006	0.15	0.134	0.202
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Front	15mm	Ant 8	DSI 15/16	55830	3609	20.82	22.50	1.472	62.9	1.006	-0.12	0.103	0.153
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Back	15mm	Ant 8	DSI 15/16	55830	3609	20.82	22.50	1.472	62.9	1.006	0.12	0.106	0.157
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 15	633332	3499.98	24.13	25.00	1.222	-	-	-0.09	0.619	0.756
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 15	633332	3499.98	24.13	25.00	1.222	-	-	-0.02	0.597	0.729
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 16	633332	3499.98	23.10	24.00	1.230	-	-	0.07	0.472	0.581
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 15	633332	3499.98	23.89	25.00	1.291	-	-	-0.14	0.500	0.646
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 15	633332	3499.98	23.89	25.00	1.291	-	-	-0.15	0.478	0.617
78	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 15	656000	3840	23.65	25.00	1.365	-	-	-0.12	0.625	0.853
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 15	656000	3840	23.65	25.00	1.365	-	-	0.12	0.592	0.808
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 16	656000	3840	22.76	24.00	1.330	-	-	0.06	0.456	0.607
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 15	656000	3840	23.58	25.00	1.387	-	-	-0.09	0.508	0.704
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 15	656000	3840	23.58	25.00	1.387	-	-	0.19	0.425	0.589
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Front	15mm	Ant 3	DSI 15	656000	3840	23.34	25.00	1.466	-	-	-0.19	0.506	0.742
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 3	DSI 15	656000	3840	23.34	25.00	1.466	-	-	0.09	0.397	0.582
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 15	633332	3499.98	20.93	21.50	1.140	-	-	0.09	0.170	0.194
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 15	633332	3499.98	20.93	21.50	1.140	-	-	-0.18	0.229	0.261
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 15	633332	3499.98	20.87	21.50	1.156	-	-	-0.19	0.151	0.175
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 15	633332	3499.98	20.87	21.50	1.156	-	-	-0.15	0.221	0.256
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 15	656000	3840	20.58	21.50	1.236	-	-	0.16	0.175	0.216
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 15	656000	3840	20.58	21.50	1.236	-	-	0.09	0.210	0.260
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 15	656000	3840	20.54	21.50	1.247	-	-	0.01	0.160	0.200
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 15	656000	3840	20.54	21.50	1.247	-	-	0.16	0.183	0.228
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 15	633332	3499.98	17.70	19.00	1.349	-	-	0.07	0.097	0.131
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 15	633332	3499.98	17.70	19.00	1.349	-	-	-0.11	0.128	0.173
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 15	633332	3499.98	17.66	19.00	1.361	-	-	0.06	0.092	0.125
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 15	633332	3499.98	17.66	19.00	1.361	-	-	-0.07	0.117	0.159
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 15	656000	3840	17.95	19.00	1.274	-	-	0.18	0.095	0.121
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 15	656000	3840	17.95	19.00	1.274	-	-	-0.01	0.139	0.177
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 15	656000	3840	17.85	19.00	1.303	-	-	-0.11	0.093	0.121
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 15	656000	3840	17.85	19.00	1.303	-	-	0.14	0.130	0.169
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 15	633332	3499.98	19.22	20.50	1.343	-	-	-0.08	0.090	0.121
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 15	633332	3499.98	19.22	20.50	1.343	-	-	-0.18	0.102	0.137
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 15	633332	3499.98	19.15	20.50	1.365	-	-	0.05	0.086	0.117
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 15	633332	3499.98	19.15	20.50	1.365	-	-	-0.18	0.098	0.134
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 15	656000	3840	19.52	20.50	1.253	-	-	0.11	0.122	0.153
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 15	656000	3840	19.52	20.50	1.253	-	-	-0.18	0.175	0.219
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 15	656000	3840	19.48	20.50	1.265	-	-	0.13	0.136	0.172
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 15	656000	3840	19.48	20.50	1.265	-	-	0.1	0.179	0.226



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)
2450MHz																
79	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5+6(6)	Power Level 1	1	2412	16.90	18.50	1.445	97.86	1.022	-0.05	0.220	0.325
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(6)	Power Level 1	1	2412	16.90	18.50	1.445	97.86	1.022	0.12	0.271	0.400
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(6)	Power Level 1	6	2437	16.70	18.50	1.514	97.86	1.022	0.03	0.211	0.326
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(6)	Power Level 1	11	2462	16.80	18.50	1.479	97.86	1.022	-0.01	0.217	0.328
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5+6(5)	Power Level 2	1	2412	14.50	16.00	1.413	97.86	1.022	-0.05	0.127	0.183
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(5)	Power Level 2	1	2412	14.50	16.00	1.413	97.86	1.022	0.12	0.132	0.191
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(5)	Power Level 2	6	2437	14.30	16.00	1.479	97.86	1.022	0.03	0.119	0.180
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(5)	Power Level 2	11	2462	14.20	16.00	1.514	97.86	1.022	-0.01	0.120	0.186
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5+6(5)	Power Level 3	1	2412	11.50	13.00	1.413	97.86	1.022	-0.05	0.067	0.097
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(5)	Power Level 3	1	2412	11.50	13.00	1.413	97.86	1.022	0.12	0.069	0.100
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(5)	Power Level 3	6	2437	11.30	13.00	1.479	97.86	1.022	0.03	0.061	0.092
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5+6(5)	Power Level 3	11	2462	11.20	13.00	1.514	97.86	1.022	-0.01	0.061	0.094
80	Bluetooth	DH5 1Mbps	Front	15mm	Ant 5	Full Power	78	2480	16.70	18.00	1.349	76.88	1.301	-0.15	0.061	0.107
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 5	Full Power	78	2480	16.70	18.00	1.349	76.88	1.301	-0.15	0.069	0.121
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 5	Full Power	0	2402	16.20	18.00	1.514	76.88	1.301	0.11	0.076	0.149
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 5	Full Power	39	2441	16.60	18.00	1.380	76.88	1.301	-0.1	0.065	0.117
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 6	Full Power	39	2441	12.60	14.00	1.380	76.71	1.304	0.1	0.031	0.056
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	Full Power	39	2441	12.60	14.00	1.380	76.71	1.304	0.14	0.032	0.058
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	Full Power	0	2402	12.10	14.00	1.549	76.71	1.304	0.09	0.024	0.048
	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	Full Power	78	2480	12.00	14.00	1.585	76.71	1.304	0.03	0.033	0.069
5000MHz																
81	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	-0.02	0.440	0.602
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	-0.15	0.187	0.256
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+6(6)	Power Level 1	62	5310	14.76	16.50	1.493	100	1.000	-0.12	0.147	0.219
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 5+6(6)	Power Level 2	58	5290	14.34	16.00	1.466	100	1.000	-0.02	0.144	0.211
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5+6(6)	Power Level 2	58	5290	14.34	16.00	1.466	100	1.000	-0.15	0.117	0.171
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6(6)	Power Level 3	50	5250	12.93	14.50	1.435	99.33	1.007	-0.02	0.104	0.150
WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+6(6)	Power Level 3	58	5290	12.93	14.50	1.435	99.33	1.007	-0.15	0.087	0.126	
82	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	0.16	0.161	0.239
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	-0.09	0.440	0.654
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	110	5550	15.57	17.50	1.560	100	1.000	-0.12	0.306	0.477
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	126	5630	15.52	17.50	1.578	100	1.000	-0.06	0.297	0.469
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	134	5670	15.58	17.50	1.556	100	1.000	0.08	0.319	0.496
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	142	5710	15.73	17.50	1.503	100	1.000	0.12	0.334	0.502
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 5+6(6)	Power Level 2/3	114	5570	12.67	14.50	1.524	99.33	1.007	0.16	0.080	0.123
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 5+6(6)	Power Level 2/3	114	5570	12.67	14.50	1.524	99.33	1.007	-0.09	0.164	0.252
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+6(5)	Power Level 1	151	5755	16.33	18.00	1.469	100	1.000	-0.08	0.219	0.322
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	151	5755	16.33	18.00	1.469	100	1.000	0.13	0.501	0.736
83	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+6(5)	Power Level 1	159	5795	16.12	18.00	1.542	100	1.000	-0.05	0.320	0.493
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 5+6(5)	Power Level 2	155	5775	13.62	15.50	1.542	100	1.000	-0.08	0.099	0.153
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5+6(5)	Power Level 2	155	5775	13.62	15.50	1.542	100	1.000	0.13	0.165	0.254
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 5+6(5)	Power Level 3	155	5775	10.64	12.50	1.535	100	1.000	-0.08	0.053	0.081
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5+6(5)	Power Level 3	155	5775	10.64	12.50	1.535	100	1.000	0.13	0.087	0.134



16.4 Product specific 10g 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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
750MHz																				
84	LTE Band 12	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 15/16	23095	707.5	23.39	24.50	1.291	-	-	0.03	1.520	1.963
	LTE Band 12	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 15/16	23095	707.5	22.47	23.50	1.268	-	-	0.15	1.160	1.470
85	LTE Band 71	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 15/16	133297	680.5	23.73	24.50	1.194	-	-	0.01	0.973	1.162
	LTE Band 71	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 15/16	133297	680.5	22.48	23.50	1.265	-	-	-0.14	0.705	0.892
86	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI 15/16	141500	707.5	23.66	24.50	1.213	-	-	0.02	1.490	1.808
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	0mm	Ant 1	DSI 15/16	141500	707.5	23.50	24.50	1.259	-	-	0.13	1.410	1.775
87	FR1 n71	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI 15/16	136100	680.5	23.43	24.50	1.279	-	-	0.07	0.972	1.244
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 1	DSI 15/16	136100	680.5	23.21	24.50	1.346	-	-	0.15	0.815	1.097
835MHz																				
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	0mm	Ant 1	DSI 15/16	189	836.4	26.24	27.50	1.337	-	-	0.04	0.503	0.672
88	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Side	0mm	Ant 1	DSI 15/16	189	836.4	26.24	27.50	1.337	-	-	0.04	0.615	0.822
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Side	0mm	Ant 1	DSI 15/16	128	824.2	26.23	27.50	1.340	-	-	0.03	0.583	0.781
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Side	0mm	Ant 1	DSI 15/16	251	848.8	26.12	27.50	1.374	-	-	0.11	0.591	0.812
	GSM850	-	-	-	-	DTM Multi-slot class 9	Left Side	0mm	Ant 1	DSI 15/16	189	836.4	22.93	24.48	1.429	-	-	0.06	0.567	0.810
89	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 15/16	4182	836.4	24.28	25.00	1.180	-	-	0.05	1.530	1.806
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 15/16	4132	826.4	24.25	25.00	1.189	-	-	0.03	1.350	1.604
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 15/16	4233	846.6	24.16	25.00	1.213	-	-	0.12	1.410	1.711
90	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 15/16	26865	831.5	23.46	24.50	1.271	-	-	0.1	1.070	1.360
	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 15/16	26765	821.5	23.45	24.50	1.274	-	-	0.03	0.960	1.223
	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 15/16	26965	841.5	23.29	24.50	1.321	-	-	0.12	0.915	1.209
	LTE Band 26	15M	QPSK	36	0	-	Left Side	0mm	Ant 1	DSI 15/16	26865	831.5	22.49	23.50	1.262	-	-	-0.18	0.955	1.205
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI 15/16	167300	836.5	23.50	24.50	1.259	-	-	-0.14	1.380	1.737
91	FR1 n5	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 1	DSI 15/16	167300	836.5	23.31	24.50	1.315	-	-	0.01	1.450	1.907
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 15	1413	1732.6	23.03	23.50	1.114	-	-	0.12	3.160	3.521
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 15	1312	1712.4	22.80	23.50	1.175	-	-	0.02	2.960	3.478
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 15	1513	1752.6	23.02	23.50	1.117	-	-	0.13	3.180	3.552
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	1413	1732.6	22.49	23.00	1.125	-	-	-0.13	2.910	3.273
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	1312	1712.4	22.48	23.00	1.127	-	-	0.1	2.770	3.122
92	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	1513	1752.6	22.42	23.00	1.143	-	-	-0.08	3.130	3.577
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	17mm	Ant 3	DSI 15	1513	1752.6	24.50	25.00	1.122	-	-	0.17	0.027	0.030
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132322	1745	22.87	23.50	1.156	-	-	-0.01	2.950	3.411
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132072	1720	22.62	23.50	1.225	-	-	0.16	2.900	3.551
93	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132572	1770	22.83	23.50	1.167	-	-	0.04	3.080	3.594
	LTE Band 66C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132572+ 132374	1770+ 1750.2	22.09	23.50	1.384	-	-	0.13	2.590	3.583
	LTE Band 66C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132072 132270	1720+ 1739.8	22.01	23.50	1.409	-	-	0.16	2.310	3.255
	LTE Band 66C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132322 132124	1745+ 1725.2	22.05	23.50	1.396	-	-	0.08	2.350	3.281
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132322	1745	22.61	23.50	1.227	-	-	0.1	2.850	3.498
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132072	1720	22.44	23.50	1.276	-	-	0.17	2.720	3.472
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132572	1770	22.55	23.50	1.245	-	-	-0.16	2.880	3.584
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 15/16	132322	1745	22.67	23.50	1.211	-	-	0.01	2.910	3.523
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	132322	1745	22.10	23.00	1.230	-	-	0.01	2.260	2.780
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	132072	1720	22.07	23.00	1.239	-	-	0.05	2.400	2.973
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	132572	1770	22.06	23.00	1.242	-	-	-0.11	2.690	3.340
	LTE Band 66	20M	QPSK	1	0	-	Left Side	17mm	Ant 3	DSI 15	132572	1770	23.65	24.50	1.216	-	-	-0.13	0.213	0.259
	LTE Band 66C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	132572+ 132374	1770+ 1750.2	21.38	23.00	1.452	-	-	-0.1	2.230	3.238
	LTE Band 66C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	132072 132270	1720+ 1739.8	21.35	23.00	1.462	-	-	-0.13	2.160	3.158
	LTE Band 66C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	132322 132124	1745+ 1725.2	21.34	23.00	1.466	-	-	-0.09	2.190	3.210
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	132322	1745	22.08	23.00	1.236	-	-	0.15	2.370	2.929



	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	132072	1720	22.05	23.00	1.245	-	-	-0.15	2.220	2.763
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	132572	1770	22.03	23.00	1.250	-	-	-0.04	2.570	3.213
	LTE Band 66	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 13/14	132322	1745	22.05	23.00	1.245	-	-	0.15	2.400	2.987
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 15	132322	1745	22.73	23.50	1.194	-	-	-0.16	2.530	3.021
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 15	132072	1720	22.63	23.50	1.222	-	-	-0.17	2.380	2.908
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 15	132572	1770	22.61	23.50	1.227	-	-	-0.11	2.350	2.884
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	132322	1745	22.73	23.50	1.194	-	-	-0.03	1.770	2.113
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	132072	1720	22.63	23.50	1.222	-	-	-0.17	1.520	1.857
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	132572	1770	22.61	23.50	1.227	-	-	-0.11	1.370	1.682
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 16	132322	1745	19.72	20.50	1.197	-	-	-0.16	1.460	1.747
	LTE Band 66C	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 15	132322+ 132124	1745+ 1725.2	21.54	23.50	1.570	-	-	-0.17	1.860	2.921
	LTE Band 66C	20M	QPSK	1	0	-	Back	0mm	Ant 4	DSI 16	132322+ 132124	1745+ 1725.2	18.56	20.50	1.563	-	-	-0.16	1.030	1.610
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 15	132322	1745	22.68	23.50	1.208	-	-	0.01	2.230	2.693
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 15	132072	1720	22.67	23.50	1.211	-	-	-0.16	2.340	2.833
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	DSI 15	132572	1770	22.64	23.50	1.219	-	-	-0.13	2.400	2.926
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	132322	1745	22.68	23.50	1.208	-	-	0.17	1.750	2.114
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	132072	1720	22.67	23.50	1.211	-	-	-0.16	1.560	1.889
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	132572	1770	22.64	23.50	1.219	-	-	-0.13	1.370	1.670
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 4	DSI 15	132322	1745	22.65	23.50	1.216	-	-	0.19	2.400	2.919
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 15	132322	1745	22.65	23.50	1.216	-	-	0.14	1.560	1.897
	FR1 n66	30M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	DSI 15/16	349000	1745	22.39	23.50	1.291	-	-	0.11	2.360	3.047
	FR1 n66	30M	QPSK	80	40	DFT-15	Bottom Side	0mm	Ant 2	DSI 15/16	349000	1745	22.38	23.50	1.294	-	-	0.15	2.440	3.158
	FR1 n66	30M	QPSK	160	0	DFT-15	Bottom Side	0mm	Ant 2	DSI 15/16	349000	1745	22.21	23.50	1.346	-	-	-0.07	2.310	3.109
94	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	349000	1745	22.15	23.00	1.216	-	-	0.09	2.740	3.332
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	17mm	Ant 3	DSI 15	349000	1745	23.54	24.50	1.247	-	-	-0.12	0.228	0.284
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	349000	1745	22.13	23.00	1.222	-	-	0	2.560	3.128
	FR1 n66	30M	QPSK	160	0	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	349000	1745	22.10	23.00	1.230	-	-	0.05	2.620	3.223
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI 15	349000	1745	21.06	22.00	1.242	-	-	0.03	1.810	2.247
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	0mm	Ant 4	DSI 15	349000	1745	21.05	22.00	1.245	-	-	-0.07	1.950	2.427
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	0mm	Ant 4	DSI 16	349000	1745	18.55	19.50	1.245	-	-	-0.07	1.230	1.531
	FR1 n66	30M	QPSK	160	0	DFT-15	Top Side	0mm	Ant 4	DSI 15	349000	1745	20.89	22.00	1.291	-	-	-0.07	1.860	2.402
1900MHz																				
95	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	9400	1880	23.72	24.00	1.067	-	-	0.15	3.370	3.594
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	9262	1852.4	23.54	24.00	1.112	-	-	-0.07	3.170	3.524
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	9538	1907.6	23.55	24.00	1.109	-	-	0.13	2.890	3.206
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	17mm	Ant 3	DSI 15	9400	1880	24.67	25.00	1.079	-	-	0.15	0.307	0.331
96	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	26340	1880	22.79	23.50	1.178	-	-	0.01	2.550	3.003
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	26140	1860	22.73	23.50	1.194	-	-	0.09	2.480	2.961
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	26590	1905	22.75	23.50	1.189	-	-	-0.08	2.290	2.722
	LTE Band 25	20M	QPSK	1	0	-	Left Side	17mm	Ant 3	DSI 15	26340	1880	23.88	24.50	1.153	-	-	-0.18	0.235	0.271
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	26340	1880	22.75	23.50	1.189	-	-	0.16	2.480	2.947
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	26140	1860	22.71	23.50	1.199	-	-	0.08	2.400	2.879
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	26590	1905	22.73	23.50	1.194	-	-	0.05	2.380	2.842
	LTE Band 25	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 13/14	26340	1880	22.73	23.50	1.194	-	-	0.09	2.360	2.818
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	376500	1882.5	22.50	23.50	1.259	-	-	0.06	2.290	2.883
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	372000	1860	22.23	23.50	1.340	-	-	-0.14	2.270	3.041
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	381000	1905	22.17	23.50	1.358	-	-	0.07	2.070	2.812
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	376500	1882.5	22.45	23.50	1.274	-	-	0.06	2.340	2.980
97	FR1 n25	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	372000	1860	22.17	23.50	1.358	-	-	-0.14	2.400	3.260
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	381000	1905	22.15	23.50	1.365	-	-	0.07	2.090	2.852
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Side	17mm	Ant 3	DSI 15	372000	1860	23.06	24.50	1.393	-	-	-0.14	0.190	0.265
	FR1 n25	20M	QPSK	100	0	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	376500	1882.5	22.42	23.50	1.282	-	-	0.06	1.870	2.398
2300MHz																				
98	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	27710	2310	21.45	22.00	1.135	-	-	-0.08	2.880	3.269
	LTE Band 30	10M	QPSK	1	0	-	Left Side	17mm	Ant 3	DSI 15	27710	2310	23.70	24.50	1.202	-	-	0.03	0.228	0.274
	LTE Band 30	10M	QPSK	25	0	-	Left Side	0mm	Ant 3	DSI 13/14	27710	2310	21.43	22.00	1.140	-	-	-0.11	2.730	3.113
	LTE Band 30	10M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	27710	2310	21.37	22.00	1.156	-	-	-0.01	2.540	2.937



2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	21100	2535	21.18	21.50	1.076	-	-	-0.05	2.870	3.089
100	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	20850	2510	21.15	21.50	1.084	-	-	-0.16	3.070	3.328
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	21350	2560	21.11	21.50	1.094	-	-	0.11	2.910	3.183
	LTE Band 7	20M	QPSK	1	0	-	Left Side	17mm	Ant 3	DSI 15	20850	2510	23.89	24.50	1.151	-	-	-0.16	0.412	0.474
	LTE Band 7C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	20850+21048	2510+2529.8	20.00	21.50	1.413	-	-	0.11	2.320	3.277
	LTE Band 7C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	2110020902	2535+2515.2	19.97	21.50	1.422	-	-	0.06	2.150	3.058
	LTE Band 7C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	2135021152	2560+2540.2	19.95	21.50	1.429	-	-	0.09	2.220	3.172
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	21100	2535	21.15	21.50	1.084	-	-	-0.18	2.790	3.024
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	20850	2510	21.13	21.50	1.089	-	-	0.1	2.960	3.223
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	21350	2560	21.10	21.50	1.096	-	-	0.02	2.840	3.114
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 13/14	21100	2535	21.13	21.50	1.089	-	-	0.09	2.760	3.005
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	21100	2535	22.07	23.00	1.239	-	-	0.02	2.650	3.283
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	20850	2510	21.92	23.00	1.282	-	-	-0.03	2.390	3.065
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	21350	2560	21.92	23.00	1.282	-	-	0.13	2.480	3.180
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 16	21100	2535	19.12	20.00	1.225	-	-	-0.14	1.510	1.849
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	21100+20902	2535+2515.2	21.24	23.00	1.500	-	-	0.04	2.120	3.179
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	2085021048	2510+2529.8	21.28	23.00	1.486	-	-	-0.03	2.060	3.061
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	2135021152	2560+2540.2	21.22	23.00	1.507	-	-	0.07	2.010	3.028
	LTE Band 7C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 16	21100+20902	2535+2515.2	18.28	20.00	1.486	-	-	-0.15	1.160	1.724
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	21100	2535	22.06	23.00	1.242	-	-	-0.03	2.430	3.017
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	20850	2510	22.01	23.00	1.256	-	-	0.04	2.390	3.002
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	21350	2560	21.80	23.00	1.318	-	-	-0.14	2.480	3.269
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 15	21100	2535	22.00	23.00	1.259	-	-	-0.06	2.580	3.248
	LTE Band 7	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 15	21100	2535	21.30	22.00	1.175	-	-	0.19	2.740	3.219
	LTE Band 7	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 15	20850	2510	21.23	22.00	1.194	-	-	-0.13	2.770	3.307
	LTE Band 7	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 15	21350	2560	21.21	22.00	1.199	-	-	-0.01	2.760	3.311
	LTE Band 7	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 16	21350	2560	18.28	19.00	1.180	-	-	-0.01	1.640	1.936
	LTE Band 7C	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 15	21350+21152	2560+2540.2	20.82	22.00	1.312	-	-	-0.17	2.370	3.110
	LTE Band 7C	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 15	2085021048	2510+2529.8	20.69	22.00	1.352	-	-	-0.16	2.220	3.002
	LTE Band 7C	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 15	2110020902	2535+2515.2	20.80	22.00	1.318	-	-	-0.06	2.170	2.861
	LTE Band 7C	20M	QPSK	1	0	-	Right Side	0mm	Ant 8	DSI 16	21350+21152	2560+2540.2	17.85	19.00	1.303	-	-	-0.15	1.330	1.733
	LTE Band 7	20M	QPSK	50	0	-	Right Side	0mm	Ant 8	DSI 15	21100	2535	21.28	22.00	1.180	-	-	-0.12	2.710	3.199
	LTE Band 7	20M	QPSK	50	0	-	Right Side	0mm	Ant 8	DSI 15	20850	2510	21.21	22.00	1.199	-	-	-0.06	2.740	3.287
	LTE Band 7	20M	QPSK	50	0	-	Right Side	0mm	Ant 8	DSI 15	21350	2560	21.20	22.00	1.202	-	-	-0.15	2.710	3.258
	LTE Band 7	20M	QPSK	100	0	-	Right Side	0mm	Ant 8	DSI 15	21100	2535	21.24	22.00	1.191	-	-	-0.15	2.680	3.193
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	40620	2593	22.90	23.50	1.148	62.9	1.006	0.05	2.830	3.269
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	39750	2506	22.88	23.50	1.153	62.9	1.006	0.12	2.550	2.959
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	40185	2549.5	22.85	23.50	1.161	62.9	1.006	0.13	2.250	2.629
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	41055	2636.5	22.80	23.50	1.175	62.9	1.006	0.08	1.830	2.163
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	41490	2680	22.78	23.50	1.180	62.9	1.006	-0.14	1.930	2.292
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	40620	2593	24.68	25.10	1.102	42.9	1.009	0.11	2.950	3.279
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Left Side	17mm	Ant 3	DSI 15	40620	2593	23.86	24.50	1.159	62.9	1.006	0.05	0.280	0.326
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	40620+40422	2593+2573.2	22.59	23.50	1.233	62.9	1.006	-0.19	2.630	3.263
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	3975039948	2506+2525.8	22.53	23.50	1.250	62.9	1.006	-0.03	2.370	2.981
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	4018539987	2549.5+2529.7	22.21	23.50	1.346	62.9	1.006	0.07	2.180	2.952
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	4105541253	2636.5+2656.3	22.42	23.50	1.282	62.9	1.006	0.17	1.780	2.296
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	4149041292	2680+2660.2	22.48	23.50	1.265	62.9	1.006	0.01	1.860	2.367
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	40620	2593	22.67	23.50	1.211	62.9	1.006	-0.13	2.290	2.789
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	39750	2506	22.63	23.50	1.222	62.9	1.006	-0.03	2.600	3.196
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	40185	2549.5	22.60	23.50	1.230	62.9	1.006	-0.15	2.330	2.884
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	41055	2636.5	22.58	23.50	1.236	62.9	1.006	0.1	1.900	2.362



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	LTE Band 41(PC3)	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	41490	2680	22.53	23.50	1.250	62.9	1.006	-0.1	2.040	2.566
	LTE Band 41(PC3)	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 13/14	40620	2593	22.66	23.50	1.213	62.9	1.006	0.12	2.100	2.563
101	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	40620	2593	22.77	23.50	1.183	62.9	1.006	-0.1	2.980	3.547
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	39750	2506	22.36	23.50	1.300	62.9	1.006	-0.09	1.710	2.237
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	40185	2549.5	22.52	23.50	1.253	62.9	1.006	-0.17	2.070	2.610
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	41055	2636.5	22.40	23.50	1.288	62.9	1.006	0.12	2.120	2.747
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	41490	2680	22.11	23.50	1.377	62.9	1.006	-0.18	2.140	2.965
	LTE Band 41(PC3)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 16	40620	2593	19.07	20.00	1.239	62.9	1.006	-0.1	1.470	1.832
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	40620	2593	24.54	25.10	1.138	42.9	1.009	-0.19	3.020	3.467
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	39750	2506	24.51	25.10	1.146	42.9	1.009	-0.11	1.730	2.000
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	40185	2549.5	24.51	25.10	1.146	42.9	1.009	-0.04	2.130	2.462
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	41055	2636.5	24.38	25.10	1.180	42.9	1.009	-0.08	2.060	2.453
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	41490	2680	24.13	25.10	1.250	42.9	1.009	0.13	2.030	2.561
	LTE Band 41(PC2)	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 16	40620	2593	20.96	21.60	1.159	42.9	1.009	-0.19	1.410	1.649
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	40620+ 40422	2593+ 2573.2	21.80	23.50	1.479	62.9	1.006	-0.1	2.330	3.467
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	39750 39948	2506+ 2525.8	21.72	23.50	1.507	62.9	1.006	-0.14	1.650	2.501
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	40185 39987	2549.5+ 2529.7	21.72	23.50	1.507	62.9	1.006	-0.08	1.960	2.971
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	41055 41253	2636.5+ 2656.3	21.66	23.50	1.528	62.9	1.006	-0.03	2.010	3.089
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 15	41490 41292	2680+ 2660.2	21.81	23.50	1.476	62.9	1.006	0.05	2.080	3.088
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 16	40620+ 40422	2593+ 2573.2	18.39	20.00	1.449	62.9	1.006	-0.08	1.250	1.822
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	40620	2593	22.61	23.50	1.227	62.9	1.006	0.16	2.750	3.396
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	39750	2506	22.29	23.50	1.321	62.9	1.006	0.14	1.860	2.472
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	40185	2549.5	22.51	23.50	1.256	62.9	1.006	-0.08	2.190	2.767
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	41055	2636.5	22.35	23.50	1.303	62.9	1.006	-0.13	2.100	2.753
	LTE Band 41(PC3)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	41490	2680	22.08	23.50	1.387	62.9	1.006	0.19	2.140	2.985
	LTE Band 41(PC3)	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 15	40620	2593	22.53	23.50	1.250	62.9	1.006	-0.09	2.770	3.484
	LTE Band 41(PC2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	40620	2593	24.52	25.00	1.117	42.9	1.009	-0.02	2.610	2.941
	LTE Band 41(PC2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	39790	2510	24.35	25.00	1.161	42.9	1.009	0.03	1.980	2.320
	LTE Band 41(PC2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	39750	2506	24.36	25.00	1.159	42.9	1.009	0.12	1.880	2.198
	LTE Band 41(PC2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	40185	2549.5	24.47	25.00	1.130	42.9	1.009	0.11	2.250	2.565
	LTE Band 41(PC2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	41055	2636.5	24.16	25.00	1.213	42.9	1.009	-0.02	2.060	2.522
	LTE Band 41(PC2)	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	DSI 15	41490	2680	24.06	25.00	1.242	42.9	1.009	-0.09	2.090	2.618
	LTE Band 41(PC2)	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	DSI 15	40620	2593	24.39	25.00	1.151	42.9	1.009	-0.05	2.580	2.996
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	507000	2535	20.25	21.00	1.189	-	-	-0.01	2.490	2.959
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	502000	2510	19.69	21.00	1.352	-	-	0.12	2.160	2.920
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	512000	2560	19.59	21.00	1.384	-	-	-0.13	2.130	2.947
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	507000	2535	20.23	21.00	1.194	-	-	0.09	2.580	3.080
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	502000	2510	19.63	21.00	1.371	-	-	-0.07	2.170	2.975
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	512000	2560	19.52	21.00	1.406	-	-	0.11	2.060	2.896
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	17mm	Ant 3	DSI 15	507000	2535	23.50	24.50	1.259	-	-	-0.05	0.313	0.394
	FR1 n7	20M	QPSK	100	0	DFT-15	Left Side	0mm	Ant 3	DSI 13/14	507000	2535	20.20	21.00	1.202	-	-	0.09	2.390	2.873
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI 15	507000	2535	20.31	21.50	1.315	-	-	-0.07	2.340	3.078
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI 15	502000	2510	19.96	21.50	1.426	-	-	-0.03	2.030	2.894
102	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI 15	512000	2560	20.20	21.50	1.349	-	-	0.12	2.500	3.372
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI 16	512000	2560	17.25	18.50	1.334	-	-	0.12	1.480	1.974
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	DSI 15	507000	2535	20.17	21.50	1.358	-	-	-0.15	2.300	3.124
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	DSI 15	502000	2510	19.90	21.50	1.445	-	-	-0.18	2.000	2.891
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	DSI 15	512000	2560	20.15	21.50	1.365	-	-	-0.05	2.420	3.302
	FR1 n7	20M	QPSK	100	0	DFT-15	Top Side	0mm	Ant 4	DSI 15	507000	2535	20.14	21.50	1.368	-	-	-0.15	2.230	3.050
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 8	DSI 15	507000	2535	19.96	21.00	1.271	-	-	0.1	2.050	2.605
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 8	DSI 15	502000	2510	19.73	21.00	1.340	-	-	-0.07	1.360	1.822
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 8	DSI 15	512000	2560	19.86	21.00	1.300	-	-	0.1	2.200	2.860
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 8	DSI 15	507000	2535	19.78	21.00	1.324	-	-	-0.05	2.060	2.728
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 8	DSI 15	502000	2510	19.71	21.00	1.346	-	-	-0.13	1.340	1.803
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 8	DSI 15	512000	2560	19.73	21.00	1.340	-	-	-0.05	2.170	2.907



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	FR1 n7	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 8	DSI 16	507000	2535	17.13	18.00	1.222	-	-	0.01	1.400	1.711
	FR1 n7	20M	QPSK	100	0	DFT-15	Right Side	0mm	Ant 8	DSI 15	507000	2535	19.70	21.00	1.349	-	-	0.1	2.140	2.887
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	DSI 13/14	518598	2592.99	20.48	21.00	1.127	-	-	0.01	1.310	1.477
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI 13/14	518598	2592.99	20.48	21.00	1.127	-	-	0.01	1.330	1.499
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI 13/14	518598	2592.99	20.48	21.00	1.127	-	-	0.01	2.750	3.100
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Left Side	17mm	Ant 3	DSI 15	518598	2592.99	25.20	26.00	1.202	-	-	0.06	0.275	0.331
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 3	DSI 13/14	518598	2592.99	20.32	21.00	1.169	-	-	0.05	1.220	1.427
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	DSI 13/14	518598	2592.99	20.32	21.00	1.169	-	-	0.05	1.260	1.474
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	DSI 13/14	518598	2592.99	20.32	21.00	1.169	-	-	0.05	2.610	3.052
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 3	DSI 13/14	518598	2592.99	20.30	21.00	1.175	-	-	0.05	2.580	3.031
103	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 15	518598	2592.99	19.65	20.50	1.216	-	-	-0.07	2.760	3.357
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 16	518598	2592.99	17.17	18.00	1.211	-	-	-0.07	1.500	1.816
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 15	518598	2592.99	19.53	20.50	1.250	-	-	0.02	2.310	2.888
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 4	DSI 15	518598	2592.99	19.50	20.50	1.259	-	-	-0.06	2.350	2.958
	FR1 n41(PC2)	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 8	DSI 15	518598	2592.99	20.08	21.00	1.236	-	-	-0.08	2.500	3.090
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 8	DSI 15	518598	2592.99	19.98	21.00	1.265	-	-	0.08	2.650	3.352
	FR1 n41(PC2)	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 8	DSI 16	518598	2592.99	17.81	19.00	1.315	-	-	0.08	1.460	1.920
	FR1 n41(PC2)	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 8	DSI 15	518598	2592.99	19.96	21.00	1.271	-	-	-0.08	2.460	3.126
3500MHz																				
104	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	55830	3609	21.59	23.00	1.384	62.9	1.006	0.08	2.570	3.577
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	55340	3560	21.42	23.00	1.439	62.9	1.006	-0.11	2.380	3.445
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	56150	3641	21.43	23.00	1.435	62.9	1.006	-0.17	2.450	3.538
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	56640	3690	21.44	23.00	1.432	62.9	1.006	-0.13	2.410	3.472
	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	17mm	Ant 3	DSI 15	55830	3609	23.07	24.50	1.390	62.9	1.006	0.15	0.169	0.236
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	55830	3609	21.53	23.00	1.403	62.9	1.006	-0.06	2.490	3.514
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	55340	3560	21.40	23.00	1.445	62.9	1.006	0.04	2.300	3.344
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	56150	3641	21.42	23.00	1.439	62.9	1.006	0.05	2.420	3.503
	LTE Band 48 Part 96	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 13/14	56640	3690	21.41	23.00	1.442	62.9	1.006	0.1	2.380	3.453
	LTE Band 48 Part 96	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 13/14	55830	3609	21.50	23.00	1.413	62.9	1.006	-0.06	2.340	3.325
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	DSI 13	633332	3499.98	20.10	21.00	1.230	-	-	-0.02	1.340	1.649
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI 13	633332	3499.98	20.10	21.00	1.230	-	-	0.06	1.300	1.599
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI 13	633332	3499.98	20.10	21.00	1.230	-	-	0.11	1.310	1.612
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	DSI 14	633332	3499.98	18.05	19.00	1.245	-	-	-0.02	0.944	1.175
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	12mm	Ant 3	DSI 15	633332	3499.98	24.13	25.00	1.222	-	-	-0.05	0.518	0.633
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	14mm	Ant 3	DSI 15	633332	3499.98	24.13	25.00	1.222	-	-	-0.17	0.378	0.462
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Side	17mm	Ant 3	DSI 15	633332	3499.98	24.13	25.00	1.222	-	-	0.02	0.442	0.540
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 3	DSI 13	633332	3499.98	19.93	21.00	1.279	-	-	-0.12	1.140	1.458
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	DSI 13	633332	3499.98	19.93	21.00	1.279	-	-	0.09	1.100	1.407
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	DSI 13	633332	3499.98	19.93	21.00	1.279	-	-	0.17	1.120	1.433
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	DSI 13	656000	3840	19.66	21.00	1.361	-	-	0.14	1.700	2.314
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI 13	656000	3840	19.66	21.00	1.361	-	-	-0.19	1.280	1.743
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI 13	656000	3840	19.66	21.00	1.361	-	-	0.17	1.320	1.797
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	DSI 14	656000	3840	17.88	19.00	1.294	-	-	0.14	1.050	1.359
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Front	12mm	Ant 3	DSI 15	656000	3840	23.65	25.00	1.365	-	-	0.13	0.468	0.639
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Back	14mm	Ant 3	DSI 15	656000	3840	23.65	25.00	1.365	-	-	-0.02	0.365	0.498
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Left Side	17mm	Ant 3	DSI 15	656000	3840	23.65	25.00	1.365	-	-	0.09	0.447	0.610
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 3	DSI 13	656000	3840	19.53	21.00	1.403	-	-	-0.07	1.610	2.259
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	DSI 13	656000	3840	19.53	21.00	1.403	-	-	0.03	1.140	1.599
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	DSI 13	656000	3840	19.53	21.00	1.403	-	-	-0.16	1.220	1.711
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 3	DSI 13	656000	3840	19.39	21.00	1.449	-	-	-0.07	1.600	2.318
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 3	DSI 13	656000	3840	19.39	21.00	1.449	-	-	0.06	1.100	1.594
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 3	DSI 13	656000	3840	19.39	21.00	1.449	-	-	0.11	1.180	1.710
105	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 15	656000	3840	20.58	21.50	1.236	-	-	0.13	2.570	3.176
	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 16	656000	3840	17.41	18.50	1.285	-	-	0.13	1.780	2.288
	FR1 n77 Part 27Q(PC2)	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 15	656000	3840	20.54	21.50	1.247	-	-	-0.04	2.330	2.906
	FR1 n77 Part 27Q(PC2)	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 4	DSI 15	656000	3840	20.51	21.50	1.256	-	-	0.07	2.280	2.864



FCC SAR Test Report

Report No. : FA330214

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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
5000MHz																
106	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	46	5230	15.30	17.00	1.479	100	1.000	-0.1	1.730	2.559
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+6(5)	Power Level 1	46	5230	15.30	17.00	1.479	100	1.000	-0.01	0.874	1.293
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	46	5230	15.30	17.00	1.479	100	1.000	-0.1	1.080	1.597
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	46	5230	15.30	17.00	1.479	100	1.000	-0.17	1.440	2.130
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	38	5190	14.67	16.50	1.524	100	1.000	-0.08	1.190	1.814
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	38	5190	14.67	16.50	1.524	100	1.000	-0.19	1.020	1.555
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+6(5)	Power Level 2	42	5210	12.68	14.00	1.355	100	1.000	-0.1	0.929	1.259
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+6(5)	Power Level 2	42	5210	12.68	14.00	1.355	100	1.000	-0.01	0.410	0.556
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 2	42	5210	12.68	14.00	1.355	100	1.000	-0.1	0.447	0.606
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 2	42	5210	12.68	14.00	1.355	100	1.000	-0.17	0.701	0.950
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	-0.1	0.440	0.599
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	-0.01	0.205	0.279
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	-0.1	0.222	0.302
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 3	42	5210	9.66	11.00	1.361	100	1.000	-0.17	0.343	0.467
107	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	-0.02	2.150	2.941
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	-0.15	0.849	1.161
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	0.02	1.150	1.573
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	0.1	1.330	1.819
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	62	5310	14.76	16.50	1.493	100	1.000	-0.12	1.430	2.135
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+6(6)	Power Level 2	58	5290	14.34	16.00	1.466	100	1.000	-0.02	1.260	1.847
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+6(6)	Power Level 2	58	5290	14.34	16.00	1.466	100	1.000	-0.15	0.559	0.819
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+6(6)	Power Level 2	58	5290	14.34	16.00	1.466	100	1.000	0.02	0.757	1.109
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6(6)	Power Level 2	58	5290	14.34	16.00	1.466	100	1.000	0.1	0.895	1.312
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 5+6(6)	Power Level 3	50	5250	12.93	14.50	1.435	99.33	1.007	-0.02	0.962	1.391
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 5+6(6)	Power Level 3	58	5290	12.93	14.50	1.435	99.33	1.007	-0.15	0.356	0.515
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6(6)	Power Level 3	58	5290	12.93	14.50	1.435	99.33	1.007	0.02	0.573	0.828
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 5+6(6)	Power Level 3	58	5290	12.93	14.50	1.435	99.33	1.007	0.1	0.723	1.045
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	0.16	1.790	2.660
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	-0.09	0.784	1.165
108	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	0.16	2.410	3.581
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6(5)	Power Level 1	100	5500	15.76	17.50	1.493	99.44	1.006	-0.08	2.270	3.409
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6(5)	Power Level 1	116	5580	15.63	17.50	1.538	99.44	1.006	-0.02	2.060	3.188
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6(5)	Power Level 1	124	5620	15.58	17.50	1.556	99.44	1.006	-0.16	2.110	3.303
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6(5)	Power Level 1	132	5660	15.59	17.50	1.552	99.44	1.006	-0.09	1.960	3.061
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6(5)	Power Level 1	140	5700	15.64	17.50	1.535	99.44	1.006	-0.08	1.880	2.902
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6(5)	Power Level 1	144	5720	15.66	17.50	1.528	99.44	1.006	-0.1	1.910	2.935
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+6(6)	Power Level 1	138	5690	15.57	17.00	1.390	100	1.000	0.15	1.850	2.571
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	-0.08	1.510	2.244
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	110	5550	15.57	17.50	1.560	100	1.000	-0.12	1.640	2.558
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	126	5630	15.52	17.50	1.578	100	1.000	-0.06	1.450	2.288
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	134	5670	15.58	17.50	1.556	100	1.000	0.08	1.390	2.163
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	142	5710	15.73	17.50	1.503	100	1.000	0.12	1.410	2.119
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	110	5550	15.57	17.50	1.560	100	1.000	0.01	2.160	3.369
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	126	5630	15.52	17.50	1.578	100	1.000	0.07	1.930	3.045
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	134	5670	15.58	17.50	1.556	100	1.000	0.03	2.200	3.423
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	142	5710	15.73	17.50	1.503	100	1.000	-0.1	1.820	2.736
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	110	5550	15.57	17.50	1.560	100	1.000	0.19	1.480	2.308
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	126	5630	15.52	17.50	1.578	100	1.000	-0.07	1.500	2.366
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	134	5670	15.58	17.50	1.556	100	1.000	-0.16	1.460	2.272
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6(5)	Power Level 1	142	5710	15.73	17.50	1.503	100	1.000	0.07	1.330	1.999
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 5+6(6)	Power Level 2/3	114	5570	12.67	14.50	1.524	99.33	1.007	0.16	0.765	1.174
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 5+6(6)	Power Level 2/3	114	5570	12.67	14.50	1.524	99.33	1.007	-0.09	0.413	0.634
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 5+6(6)	Power Level 2/3	114	5570	12.67	14.50	1.524	99.33	1.007	0.16	1.050	1.611
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 5+6(6)	Power Level 2/3	114	5570	12.67	14.50	1.524	99.33	1.007	-0.08	0.920	1.412



16.5 Repeated SAR Measurement

<1g>

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 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	133297	680.5	21.26	22.00	1.186	-	-	-0.06	0.931	1	1.104
2nd	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 9	133297	680.5	21.26	22.00	1.186	-	-	0.03	0.908	1.025	1.077
1st	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 9	189	836.4	23.48	24.00	1.127	-	-	-0.18	1.050	1	1.184
2nd	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 9	189	836.4	23.48	24.00	1.127	-	-	-0.13	1.010	1.040	1.138
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	1513	1752.6	18.15	18.50	1.084	-	-	-0.05	1.100	1	1.192
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	1513	1752.6	18.15	18.50	1.084	-	-	-0.05	1.050	1.048	1.138
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	9400	1880	16.91	17.50	1.146	-	-	-0.1	1.030	1	1.180
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	DSI 9	9400	1880	16.91	17.50	1.146	-	-	-0.1	0.996	1.034	1.141
1st	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	27710	2310	18.97	19.50	1.130	-	-	-0.1	1.030	1	1.164
2nd	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	27710	2310	18.97	19.50	1.130	-	-	-0.1	0.989	1.041	1.117
1st	LTE Band 41(PC2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	40185	2549.5	20.27	20.60	1.079	42.9	1.009	-0.04	1.050	1	1.143
2nd	LTE Band 41(PC2)	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 9	40185	2549.5	20.27	20.60	1.079	42.9	1.009	-0.04	1.010	1.040	1.100
1st	LTE Band 48Part 96	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	56150	3641	17.66	18.50	1.213	62.9	1.006	-0.11	0.954	1	1.165
2nd	LTE Band 48Part 96	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 9	56150	3641	17.66	18.50	1.213	62.9	1.006	-0.07	0.932	1.024	1.138
1st	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.75	15.50	1.189	-	-	-0.11	0.845	1	1.004
2nd	FR1 n77 Part 27Q(PC2)	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 9	633332	3499.98	14.75	15.50	1.189	-	-	-0.11	0.801	1.055	0.952
1st	FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	656000	3840	15.17	16.00	1.211	-	-	0.16	0.907	1	1.098
2nd	FR1 n77 Part 27O(PC2)	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 9	656000	3840	15.17	16.00	1.211	-	-	0.01	0.862	1.052	1.044
1st	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 1	46	5230	15.30	17.00	1.479	-	-	-0.08	0.804	1	1.189
2nd	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+6(5)	Power Level 1	46	5230	15.30	17.00	1.479	-	-	0.02	0.751	1.071	1.111

<10g>

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 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 15	1513	1752.6	23.02	23.50	1.117	-	1.000	0.13	3.180	1	3.552
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 15	1513	1752.6	23.02	23.50	1.117	-	1.000	0.13	3.040	1.046	3.395
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	9400	1880	23.72	24.00	1.067	-	1.000	0.15	3.370	1	3.594
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 3	DSI 13/14	9400	1880	23.72	24.00	1.067	-	1.000	0.15	3.220	1.047	3.434
1st	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	27710	2310	21.45	22.00	1.135	-	1.000	-0.08	2.880	1	3.269
2nd	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	27710	2310	21.45	22.00	1.135	-	1.000	-0.08	2.810	1.025	3.189
1st	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	20850	2510	21.15	21.50	1.084	-	1.000	-0.16	3.070	1	3.328
2nd	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	20850	2510	21.15	21.50	1.084	-	1.000	-0.16	3.000	1.023	3.252
1st	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	55830	3609	21.59	23.00	1.384	62.9	1.006	0.08	2.570	1	3.577
2nd	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	55830	3609	21.59	23.00	1.384	62.9	1.006	0.02	2.510	1.024	3.494
1st	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	55340	3560	21.42	23.00	1.439	62.9	1.006	-0.11	2.380	1	3.445
2nd	LTE Band 48 Part 96	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 13/14	55340	3560	21.42	23.00	1.439	62.9	1.006	0.06	2.300	1.035	3.329
1st	FR1 n77 Part 27O(PC2)	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 15	656000	3840	20.58	21.50	1.236	-	-	0.13	2.570	1	3.176
2nd	FR1 n77 Part 27O(PC2)	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 15	656000	3840	20.58	21.50	1.236	-	-	0.13	2.490	1.032	3.078
1st	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	-0.02	2.150	1	2.941
2nd	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Front	0mm	Ant 5+6(5)	Power Level 1	54	5270	16.64	18.00	1.368	100	1.000	0.08	2.080	1.034	2.845
1st	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	0.16	2.410	1	3.581
2nd	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6(5)	Power Level 1	102	5510	15.78	17.50	1.486	100	1.000	-0.03	2.330	1.034	3.462

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.



3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 TDD LTE Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

Head Standalone			Head Simultaneous		
LTE Band 41(HPUE)-Linearity Data for DSI9-ANT2			LTE Band 41(HPUE)-Linearity Data for DSI10-ANT2		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	26.00	Maximum Tune up Power (dBm)	24.50	26.00
Reported 1g SAR (W/kg)	0.080	0.074	Reported 1g SAR (W/kg)	0.080	0.074
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	178.40	172.38	Frame Averaged (mW)	178.40	172.38
Linearity SAR (W/kg)	0.077		Linearity SAR (W/kg)	0.077	
% deviation from expected linearity		-4.27%	% deviation from expected linearity		-4.27%
LTE Band 41(HPUE)-Linearity Data for DSI9-ANT3			LTE Band 41(HPUE)-Linearity Data for DSI10-ANT3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	20.60	Maximum Tune up Power (dBm)	18.00	19.60
Reported 1g SAR (W/kg)	1.055	1.143	Reported 1g SAR (W/kg)	0.813	0.732
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	50.28	49.72	Frame Averaged (mW)	39.94	39.49
Linearity SAR (W/kg)	1.043		Linearity SAR (W/kg)	0.804	
% deviation from expected linearity		9.57%	% deviation from expected linearity		-8.94%
LTE Band 41(HPUE)-Linearity Data for DSI9-ANT4			LTE Band 41(HPUE)-Linearity Data for DSI10-ANT4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	20.10	Maximum Tune up Power (dBm)	17.50	19.10
Reported 1g SAR (W/kg)	1.007	1.014	Reported 1g SAR (W/kg)	0.825	0.843
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	44.81	44.31	Frame Averaged (mW)	35.60	35.20
Linearity SAR (W/kg)	0.996		Linearity SAR (W/kg)	0.816	
% deviation from expected linearity		1.84%	% deviation from expected linearity		3.34%
LTE Band 41(HPUE)-Linearity Data for DSI9-ANT8			LTE Band 41(HPUE)-Linearity Data for DSI10-ANT8		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	20.10	Maximum Tune up Power (dBm)	15.50	17.10
Reported 1g SAR (W/kg)	1.159	1.128	Reported 1g SAR (W/kg)	0.665	0.592
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	44.81	44.31	Frame Averaged (mW)	22.46	22.21
Linearity SAR (W/kg)	1.146		Linearity SAR (W/kg)	0.658	
% deviation from expected linearity		-1.57%	% deviation from expected linearity		-9.96%



Hotspot		
LTE Band 41(HPUE)-Linearity Data for DSI17-ANT2		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	26.00
Reported 1g SAR (W/kg)	0.898	0.921
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	178.40	172.38
Linearity SAR (W/kg)	0.868	
% deviation from expected linearity		6.14%
LTE Band 41(HPUE)-Linearity Data for DSI17-ANT3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	23.10
Reported 1g SAR (W/kg)	0.926	0.837
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	89.41	88.41
Linearity SAR (W/kg)	0.916	
% deviation from expected linearity		-8.58%
LTE Band 41(HPUE)-Linearity Data for DSI17-ANT4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	19.50	21.10
Reported 1g SAR (W/kg)	0.989	0.957
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	56.42	55.78
Linearity SAR (W/kg)	0.978	
% deviation from expected linearity		-2.13%
LTE Band 41(HPUE)-Linearity Data for DSI17-ANT8		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	21.60
Reported 1g SAR (W/kg)	0.595	0.593
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	63.30	62.59
Linearity SAR (W/kg)	0.588	
% deviation from expected linearity		0.80%



Body Worn Standalone			Body Worn Simultaneous		
LTE Band 41(HPUE)-Linearity Data for DSI15-ANT2			LTE Band 41(HPUE)-Linearity Data for DSI16-ANT2		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	26.00	Maximum Tune up Power (dBm)	24.50	26.00
Reported 1g SAR (W/kg)	0.278	0.278	Reported 1g SAR (W/kg)	0.278	0.278
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	178.40	172.38	Frame Averaged (mW)	178.40	172.38
Linearity SAR (W/kg)	0.269		Linearity SAR (W/kg)	0.269	
% deviation from expected linearity		3.49%	% deviation from expected linearity		3.49%
LTE Band 41(HPUE)-Linearity Data for DSI15-ANT3			LTE Band 41(HPUE)-Linearity Data for DSI16-ANT3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	26.00	Maximum Tune up Power (dBm)	24.50	26.00
Reported 1g SAR (W/kg)	0.360	0.381	Reported 1g SAR (W/kg)	0.360	0.381
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	178.40	172.38	Frame Averaged (mW)	178.40	172.38
Linearity SAR (W/kg)	0.348		Linearity SAR (W/kg)	0.348	
% deviation from expected linearity		9.53%	% deviation from expected linearity		9.53%
LTE Band 41(HPUE)-Linearity Data for DSI15-ANT4			LTE Band 41(HPUE)-Linearity Data for DSI16-ANT4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	23.50	25.10
Reported 1g SAR (W/kg)	0.654	0.602	Reported 1g SAR (W/kg)	0.654	0.602
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	141.71	140.12
Linearity SAR (W/kg)	0.647		Linearity SAR (W/kg)	0.647	
% deviation from expected linearity		-6.90%	% deviation from expected linearity		-6.90%
LTE Band 41(HPUE)-Linearity Data for DSI15-ANT8			LTE Band 41(HPUE)-Linearity Data for DSI16-ANT8		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	24.60	Maximum Tune up Power (dBm)	23.00	24.60
Reported 1g SAR (W/kg)	0.209	0.190	Reported 1g SAR (W/kg)	0.209	0.190
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	124.88	Frame Averaged (mW)	126.30	124.88
Linearity SAR (W/kg)	0.207		Linearity SAR (W/kg)	0.207	
% deviation from expected linearity		-8.06%	% deviation from expected linearity		-8.06%

Extremity Standalone			Extremity Simultaneous		
LTE Band 41(HPUE)-Linearity Data for DSI13-ANT3			LTE Band 41(HPUE)-Linearity Data for DSI14-ANT3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	23.50	25.10
Reported 10g SAR (W/kg)	3.269	3.279	Reported 10g SAR (W/kg)	3.269	3.279
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	141.71	140.12
Linearity SAR (W/kg)	3.232		Linearity SAR (W/kg)	3.232	
% deviation from expected linearity		1.45%	% deviation from expected linearity		1.45%
			LTE Band 41(HPUE)-Linearity Data for DSI16-ANT4		
				LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)			Maximum Tune up Power (dBm)	20.00	21.60
Reported 10g SAR (W/kg)			Reported 10g SAR (W/kg)	1.832	1.649
Duty Cycle			Duty Cycle	63.30%	43.30%
Frame Averaged (mW)			Frame Averaged (mW)	63.30	62.59
Linearity SAR (W/kg)			Linearity SAR (W/kg)	1.811	
% deviation from expected linearity			% deviation from expected linearity		-8.96%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WLAN 5GHz (SISO/MIMO) + BT	Yes	Yes	Yes	Yes
2.	WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN 2.4GHz (SISO/MIMO)	Yes	Yes	Yes	Yes
4.	WWAN + WLAN 5GHz (SISO/MIMO)	Yes	Yes	Yes	Yes
5.	WWAN + BT	Yes	Yes	Yes	Yes
6.	WWAN + WLAN 5GHz (SISO/MIMO) +BT	Yes	Yes	Yes	Yes
7.	WWAN + WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
8.	WLAN 5GHz (SISO/MIMO) + BT + NFC				Yes
9.	WLAN 2.4GHz + WLAN 5GHz + NFC				Yes
10.	WWAN + WLAN 2.4GHz (SISO/MIMO) + NFC				Yes
11.	WWAN + WLAN 5GHz (SISO/MIMO) + NFC				Yes
12.	WWAN + BT + NFC				Yes
13.	WWAN + WLAN 5GHz (SISO/MIMO) +BT + NFC				Yes
14.	WWAN + WLAN 2.4GHz + WLAN 5GHz + NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 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 FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously each other.
- According to the EUT characteristic, WLAN5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can transmit simultaneously.
- According to the EUT characteristic, two Bluetooth antennas cannot transmit simultaneously with each other.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The maximum SAR summation is calculated based on the same configuration and test position.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- For standalone WWAN, always choose the highest SAR among all WWAN bands 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.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 17.7.

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. 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

Else, if $A + C > 1.0$ and/or $B + C > 1.0$, then the followings need to hold true for compliance:

- i. A and C are decoupled based on the SPLSR criteria, and
- ii. $(100-x)\% * B + C \leq 1.0$, and
- iii. $x\% * A + (100-x)\% * B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

17.2 Sub6 Antenna Groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating below conditions for all exposure positions under each DSI for a given exposure category.

- 1) Case 1: Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits for each supported DSI. This condition must be demonstrated for all antenna combinations of sub6 AGs.
 - i. For a given DSI, obtain the highest *reported* SAR for each antenna out of all supported technologies and frequency bands. Obtain the maximum *reported* SAR for each AG by taking the maximum out of *reported* SAR for all antennas belonging to each AG.
 - ii. Demonstrate that the sum of maximum reported SAR (normalized to regulatory limit) from each of the sub6 AGs and the sum of reported SAR (normalized to regulatory limit) from all supported radios outside of Smart Transmit should be less than 1.0
- 2) Case 2: If the Case 1 is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR criteria (Section 4.3.2 (c) in FCC KDB 447498 D01 v06) for each exposure position under each supported DSI. For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.

This device supports two sub6 AG: AG0 and AG1, the detailed please refer to the below table:

Antenna Group 0 (AG0)	ANT0 & ANT2
Antenna Group 1 (AG1)	ANT1 & ANT3 & ANT4 & ANT6 & ANT8

The conditions are verified through the following criterias:

- i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.
 1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported* SAR at *Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: { [max.SAR.AG0+ max.SAR.AG1] + WIFI/BT worst-case reported SAR} ≤ 1.6 (for 1g, or 4.0 for 10g). (WIFI/BT worst-case reported SAR is the worst SAR in all combinations of WIFI and BT simultaneous transmission)
- ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:
 - a. SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.
 - b. Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.
 - c. Use the 'closest' peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by 'closest', select the peak location out of all antennas (ε AGj) that is closest to the peak location of other AG where SPLSR is evaluated.
- iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: {max.SAR.AG0 + worst-case reported SAR} ≤ 1.6 and {max.SAR.AG1+ worst-case reported SAR } ≤ 1.6 for compliance demonstration (for 1g, or 4.0 for 10g).

For summed SAR results and SPLSR detailed analysis please refer to section 17.3 / 17.4 / 17.5 / 17.6 / 17.7 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.3 Head Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum report SAR>:

Test Position	Ant0	Ant2	MAX
Right Cheek	0.334	0.217	0.334
Right Tilted	0.203	0.152	0.203
Left Cheek	0.171	0.249	0.249
Left Tilted	0.147	0.159	0.159

<AG1 maximum report SAR>:

Test Position	Ant1	Ant3	Ant4	Ant6	Ant8	MAX
Right Cheek	0.818	0.866	0.870	0.810	0.246	0.870
Right Tilted	0.149	0.433	0.947	0.138	0.154	0.947
Left Cheek	0.746	0.517	0.625	0.641	0.747	0.747
Left Tilted	0.188	0.282	0.779	0.305	0.524	0.779

<WLAN+BT Worse-case SAR>:

NO	1	2	3	4	5	6	7	8	Simultaneous			Wlan+BT worse case
Test Position	WLAN2.4GHz Ant 5+6 Power Level 1	WLAN5GHz Ant 5+6 Power Level 1	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1	5+6 Summed 1g SAR (W/kg)	6+7 Summed 1g SAR (W/kg)	6+8 Summed 1g SAR (W/kg)	
Right Cheek	0.241	0.332	0.136	0.212	0.118	0.177	0.136	0.212	0.295	0.313	0.389	0.389
Right Tilted	0.273	0.326	0.142	0.027	0.130	0.174	0.142	0.027	0.304	0.316	0.201	0.326
Left Cheek	0.368	0.532	0.298	0.297	0.179	0.239	0.298	0.297	0.418	0.537	0.536	0.537
Left Tilted	0.594	0.599	0.216	0.041	0.275	0.264	0.216	0.041	0.539	0.480	0.305	0.599

< Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	Wlan/BT worst case	AG0+AG1+wlan/BT worse case
Right Cheek	0.334	0.870	0.389	1.59
Right Tilted	0.203	0.947	0.326	1.48
Left Cheek	0.249	0.752	0.537	1.54
Left Tilted	0.159	0.779	0.599	1.54



< Simultaneous Transmission analysis of AG0 + WLAN+BT Worse-case >

NO	1	2	3	4	5	6	7	8	9	Simultaneous									
										Test Position	WWAN AG0	WLAN2.4GHz Ant 5+6 Power Level 1	WLAN5GHz Ant 5+6 Power Level 1	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1
Right Cheek	0.334	0.241	0.332	0.136	0.261	0.118	0.177	0.136	0.212	0.59	0.45	0.57	0.58	0.67	0.47	0.60	0.63	0.65	0.72
Right Tilted	0.203	0.273	0.326	0.142	0.027	0.130	0.174	0.142	0.027	0.35	0.46	0.60	0.48	0.53	0.35	0.23	0.51	0.52	0.40
Left Cheek	0.249	0.368	0.532	0.298	0.297	0.179	0.239	0.298	0.297	0.83	0.71	0.90	0.62	0.78	0.55	0.55	0.67	0.79	0.79
Left Tilted	0.159	0.594	0.599	0.216	0.041	0.275	0.264	0.216	0.041	0.64	0.87	1.19	0.75	0.76	0.38	0.20	0.70	0.64	0.46

< Simultaneous Transmission analysis of AG1 + WLAN+BT Worse-case >

NO	1	2	3	4	5	6	7	8	9	Simultaneous									
										Test Position	WWAN AG1	WLAN2.4GHz Ant 5+6 Power Level 1	WLAN5GHz Ant 5+6 Power Level 1	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1
Right Cheek	0.870	0.241	0.332	0.136	0.261	0.118	0.177	0.136	0.212	0.59	0.45	0.57	1.11	1.20	1.01	1.13	1.17	1.18	1.26
Right Tilted	0.947	0.273	0.326	0.142	0.027	0.130	0.174	0.142	0.027	0.35	0.46	0.60	1.22	1.27	1.09	0.97	1.25	1.26	1.15
Left Cheek	0.747	0.368	0.532	0.298	0.297	0.179	0.239	0.298	0.297	0.83	0.71	0.90	1.12	1.28	1.05	1.04	1.17	1.28	1.28
Left Tilted	0.779	0.594	0.599	0.216	0.041	0.275	0.264	0.216	0.041	0.64	0.87	1.19	1.37	1.38	1.00	0.82	1.32	1.26	1.08

17.4 Hotspot Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.
Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
<AG0 maximum report SAR>:

Test Position	Ant0	Ant2	MAX
Front	0.520	0.600	0.600
Back	0.520	0.674	0.674
Left side		0.368	0.368
Right side	0.672		0.672
Top side			0.000
Bottom side	0.274	0.999	0.999

<AG1 maximum report SAR>:

Test Position	Ant1	Ant3	Ant4	Ant6	Ant8	MAX
Front	0.896	0.544	0.461	0.260	0.355	0.896
Back	0.721	0.673	0.548	0.306	0.313	0.721
Left side	0.984	0.992	0.249			0.992
Right side				0.699	0.698	0.699
Top side		0.379	0.991	0.073	0.134	0.991
Bottom side						0.000

<WLAN+BT Worse-case SAR>:

NO	1	2	3	4	5	6	7	8	Simultaneous			Wlan+BT worse case
									5+6 Summed 1g SAR (W/kg)	6+7 Summed 1g SAR (W/kg)	6+8 Summed 1g SAR (W/kg)	
Test Position	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	WLAN2.4GHz Ant 5+6 Power Level 3	WLAN5GHz Ant 5+6 Power Level 3	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1				
Front	0.244	0.302	0.225	0.121	0.128	0.163	0.055	0.079	0.291	0.218	0.242	0.302
Back	0.300	0.587	0.233	0.135	0.157	0.259	0.079	0.103	0.416	0.338	0.362	0.587
Left side									0.000	0.000	0.000	0.000
Right side	0.238	0.355	0.154	0.326	0.126	0.180	0.031	0.162	0.306	0.211	0.342	0.355
Top side	0.571	0.575	0.523	0.043	0.299	0.270	0.096	0.006	0.569	0.366	0.276	0.575
Bottom side									0.000	0.000	0.000	0.000

< Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	Wlan/BT worst case	AG0+AG1+wlan/BT worse case
Front 10mm	0.600	0.896	0.302	1.80
Back 10mm	0.674	0.721	0.587	1.98
Left Side 10mm	0.368	0.992		1.36
Right Side 10mm	0.672	0.699	0.355	1.73
Top Side 10mm		0.991	0.575	1.57
Bottom Side 10mm	0.999			1.00

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.



Front					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+wlan +BT worst case	SPLSR
	SAR	SAR			
Ant0-Ant1	0.520	0.896	0.302	1.72	Case 1
Ant0-Ant3	0.520	0.544	0.302	1.37	
Ant0-Ant4	0.520	0.461	0.302	1.28	
Ant0-Ant6	0.520	0.260	0.302	1.08	
Ant0-Ant8	0.520	0.355	0.302	1.18	
Ant2-Ant1	0.600	0.896	0.302	1.80	Case 2
Ant2-Ant3	0.600	0.544	0.302	1.45	
Ant2-Ant4	0.600	0.461	0.302	1.36	
Ant2-Ant6	0.600	0.260	0.302	1.16	
Ant2-Ant8	0.600	0.355	0.302	1.26	

Back					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+wlan +BT worst case	SPLSR
	SAR	SAR			
Ant0-Ant1	0.520	0.721	0.587	1.83	Case 3
Ant0-Ant3	0.520	0.673	0.587	1.78	Case 4
Ant0-Ant4	0.520	0.548	0.587	1.66	Case 5
Ant0-Ant6	0.520	0.306	0.587	1.41	
Ant0-Ant8	0.520	0.313	0.587	1.42	
Ant2-Ant1	0.674	0.721	0.587	1.98	Case 6
Ant2-Ant3	0.674	0.673	0.587	1.93	Case 7
Ant2-Ant4	0.674	0.548	0.587	1.81	Case 8
Ant2-Ant6	0.674	0.306	0.587	1.57	
Ant2-Ant8	0.674	0.313	0.587	1.57	

Right Side					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+wlan +BT worst case	SPLSR
	SAR	SAR			
Ant0-Ant1	0.672	0.000	0.355	1.03	
Ant0-Ant3	0.672	0.000	0.355	1.03	
Ant0-Ant4	0.672	0.000	0.355	1.03	
Ant0-Ant6	0.672	0.699	0.355	1.73	Case 9
Ant0-Ant8	0.672	0.698	0.355	1.73	Case 10
Ant2-Ant1	0.000	0.000	0.355	0.36	
Ant2-Ant3	0.000	0.000	0.355	0.36	
Ant2-Ant4	0.000	0.000	0.355	0.36	
Ant2-Ant6	0.000	0.699	0.355	1.05	
Ant2-Ant8	0.000	0.698	0.355	1.05	



< Simultaneous Transmission analysis of AG0 + WLAN+BT Worse-case >

NO	1	2	3	4	5	6	7	8	9	Simultaneous									
										3+5	3+6	2+3	1+2	1+3	1+4	1+5	1+6+7	1+7+8	1+7+9
Test Position	WWAN AG0	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	WLAN2.4GHz Ant 5+6 Power Level 3	WLAN5GHz Ant 5+6 Power Level 3	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.600	0.244	0.302	0.225	0.121	0.128	0.163	0.055	0.079	0.42	0.43	0.55	0.84	0.90	0.83	0.72	0.89	0.82	0.84
Back	0.674	0.300	0.587	0.233	0.135	0.157	0.259	0.079	0.103	0.72	0.74	0.89	0.97	1.26	0.91	0.81	1.09	1.01	1.04
Left side	0.368									0.00	0.00	0.00	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Right side	0.672	0.238	0.355	0.154	0.326	0.126	0.180	0.031	0.162	0.68	0.48	0.59	0.91	1.03	0.83	1.00	0.98	0.88	1.01
Top side		0.571	0.575	0.523	0.043	0.299	0.270	0.096	0.006	0.62	0.87	1.15	0.57	0.58	0.52	0.04	0.57	0.37	0.28
Bottom side	0.999									0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

< Simultaneous Transmission analysis of AG1 + WLAN+BT Worse-case >

NO	1	2	3	4	5	6	7	8	9	Simultaneous									
										3+5	3+6	2+3	1+2	1+3	1+4	1+5	1+6+7	1+7+8	1+7+9
Test Position	WWAN AG1	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	WLAN2.4GHz Ant 5+6 Power Level 3	WLAN5GHz Ant 5+6 Power Level 3	Bluetooth Ant 5 Power Level 1	Bluetooth Ant 6 Power Level 1	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.896	0.244	0.302	0.225	0.121	0.128	0.163	0.055	0.079	0.42	0.43	0.55	1.14	1.20	1.12	1.02	1.19	1.11	1.14
Back	0.721	0.300	0.587	0.233	0.135	0.157	0.259	0.079	0.103	0.72	0.74	0.89	1.02	1.31	0.95	0.86	1.14	1.06	1.08
Left side	0.992									0.00	0.00	0.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Right side	0.699	0.238	0.355	0.154	0.326	0.126	0.180	0.031	0.162	0.68	0.48	0.59	0.94	1.05	0.85	1.03	1.01	0.91	1.04
Top side	0.991	0.571	0.575	0.523	0.043	0.299	0.270	0.096	0.006	0.62	0.87	1.15	1.56	1.57	1.51	1.03	1.56	1.36	1.27
Bottom side										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

17.5 Body-Worn Accessory Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum report SAR>:

Test Position	Ant0	Ant2	MAX
Front	0.290	0.510	0.510
Back	0.293	0.548	0.548

<AG1 maximum report SAR>:

Test Position	Ant1	Ant3	Ant4	Ant6	Ant8	MAX
Front	0.676	0.722	0.702	0.202	0.223	0.722
Back	0.819	0.977	0.953	0.302	0.279	0.977

<WLAN+BT Worse-case SAR>:

NO	1	2	3	4	5	6	7	8	Simultaneous			Wlan+BT worse case
Test Position	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	WLAN2.4GHz Ant 5+6 Power Level 3	WLAN5GHz Ant 5+6 Power Level 3	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	5+6 Summed 1g SAR (W/kg)	6+7 Summed 1g SAR (W/kg)	6+8 Summed 1g SAR (W/kg)	
Front	0.183	0.211	0.107	0.056	0.097	0.150	0.107	0.056	0.247	0.257	0.206	0.257
Back	0.191	0.254	0.149	0.069	0.100	0.252	0.149	0.069	0.352	0.401	0.321	0.401

< Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+wlan +BT worse case
Front 15mm	0.526	0.722	0.257	1.51
Back 15mm	0.581	0.977	0.401	1.96

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.



Back					
Ant combination	AG0	AG1	Wlan+BT worst case	AG0+AG1+wlan +BT worst case	SPLSR
	SAR	SAR			
Ant0-Ant1	0.293	0.819	0.401	1.51	
Ant0-Ant3	0.293	0.977	0.401	1.67	Case 11
Ant0-Ant4	0.293	0.953	0.401	1.65	Case 12
Ant0-Ant6	0.293	0.302	0.401	1.00	
Ant0-Ant8	0.293	0.279	0.401	0.97	
Ant2-Ant1	0.548	0.819	0.401	1.77	Case 13
Ant2-Ant3	0.548	0.977	0.401	1.93	Case 14
Ant2-Ant4	0.548	0.953	0.401	1.90	Case 15
Ant2-Ant6	0.548	0.302	0.401	1.25	
Ant2-Ant8	0.548	0.279	0.401	1.23	

< Simultaneous Transmission analysis of AG0 + WLAN+BT Worse-case >

NO	1	2	3	4	5	6	7	8	9	Simultaneous									
										3+5	3+6	2+3	1+2	1+3	1+4	1+5	1+6+7	1+7+8	1+7+9
Test Position	WWAN AG0	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	WLAN2.4GHz Ant 5+6 Power Level 3	WLAN5GHz Ant 5+6 Power Level 3	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.510	0.183	0.211	0.107	0.056	0.097	0.150	0.107	0.056	0.27	0.31	0.39	0.69	0.72	0.62	0.57	0.76	0.77	0.72
Back	0.548	0.191	0.254	0.149	0.069	0.100	0.252	0.149	0.069	0.32	0.35	0.45	0.74	0.80	0.70	0.62	0.90	0.95	0.87

< Simultaneous Transmission analysis of AG1 + WLAN+BT Worse-case >

NO	1	2	3	4	5	6	7	8	9	Simultaneous									
										3+5	3+6	2+3	1+2	1+3	1+4	1+5	1+6+7	1+7+8	1+7+9
Test Position	WWAN AG1	WLAN2.4GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 2	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	WLAN2.4GHz Ant 5+6 Power Level 3	WLAN5GHz Ant 5+6 Power Level 3	Bluetooth Ant 5 Full Power	Bluetooth Ant 6 Full Power	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.722	0.183	0.211	0.107	0.056	0.097	0.150	0.107	0.056	0.27	0.31	0.39	0.91	0.93	0.83	0.78	0.97	0.98	0.93
Back	0.977	0.191	0.254	0.149	0.069	0.100	0.252	0.149	0.069	0.32	0.35	0.45	1.17	1.23	1.13	1.05	1.33	1.38	1.30

17.6 Product specific 10g SAR Exposure Conditions

Remark:

1. For WLAN2.4GHz /Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
2. The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:

<AG0 maximum report SAR>:

Test Position	Ant0	Ant2	MAX
Front			0.000
Back			0.000
Left side			0.000
Right side			0.000
Top side			0.000
Bottom side		3.594	3.594

<AG1 maximum report SAR>:

Test Position	Ant1	Ant3	Ant4	Ant6	Ant8	MAX
Front	0.672	1.477				1.477
Back		1.743	1.747			1.747
Left side	1.963	3.594				3.594
Right side					1.936	1.936
Top side			2.288			2.288
Bottom side						0.000

<WLAN+BT Worse-case SAR>:

NO	1	2	Wlan+BT worse case
Test Position	WLAN5GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 3	
Front	1.847	1.391	1.847
Back	0.819	0.634	0.819
Left side			0.000
Right side	1.611	1.611	1.611
Top side	1.412	1.412	1.412
Bottom side			0.000

< Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case+NFC>:

Test Position	AG0	AG1	Wlan+BT worst case	NFC worst case	AG0+AG1+wlan +BT worse case+NFC
Front		1.477	1.847		3.32
Back		1.747	0.819	0.007	2.57
Left side		3.594			3.59
Right side		1.936	1.611		3.55
Top side		2.288	1.412		3.70
Bottom side	3.594				3.59



< Simultaneous Transmission analysis of AG0 + WLAN+BT Worse-case+NFC >

NO	1	2	3	4	Simultaneous		
Test Position	WWAN AG0	NFC	WLAN5GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 3	1+3 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)	1+2+4 Summed 10g SAR (W/kg)
Front			1.847	1.391	1.85	1.39	1.39
Back		0.007	0.819	0.634	0.82	0.63	0.64
Left side					0.00	0.00	0.00
Right side			1.611	1.611	1.61	1.61	1.61
Top side			1.412	1.412	1.41	1.41	1.41
Bottom side	3.594				3.59	3.59	3.59

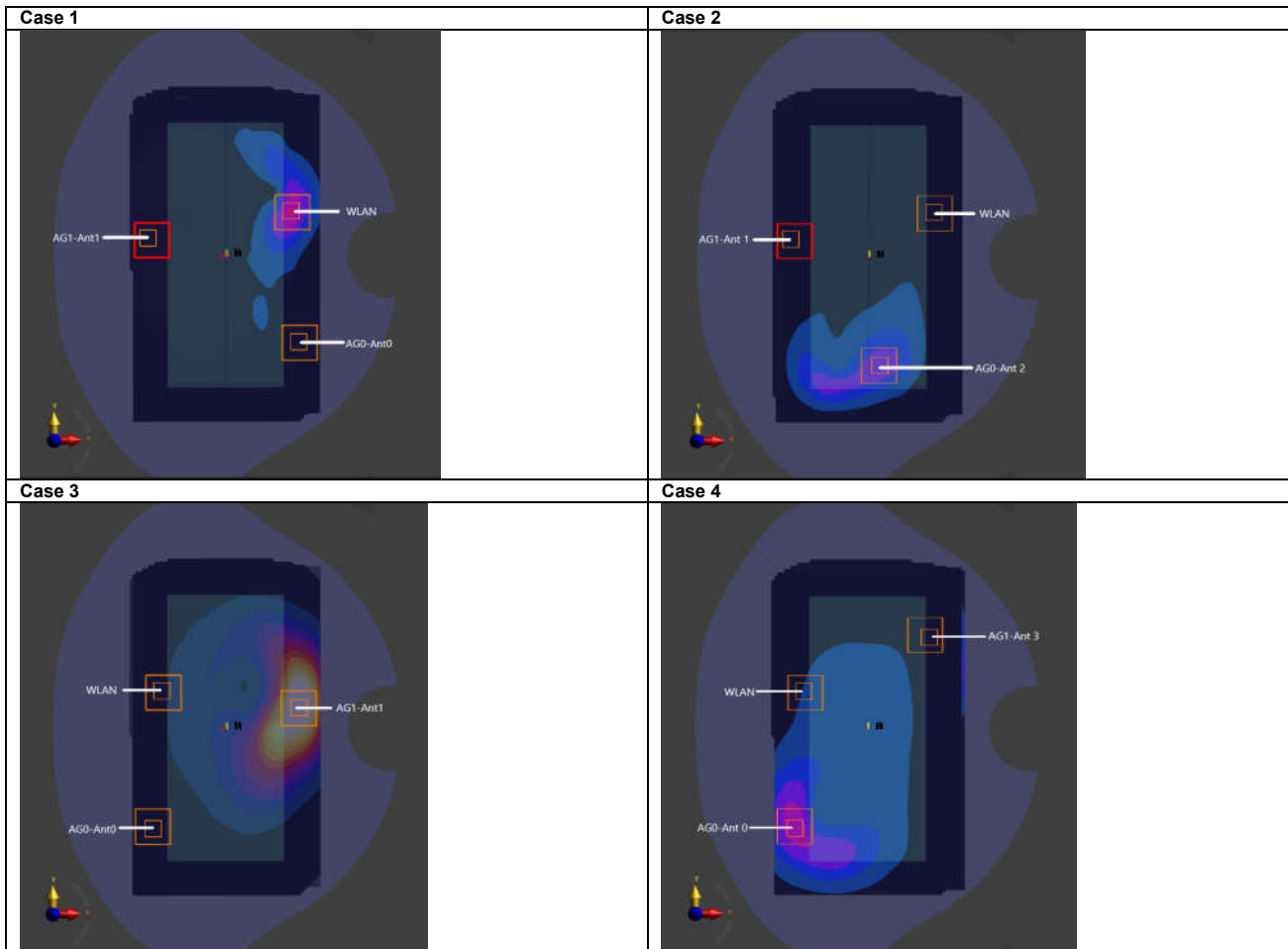
< Simultaneous Transmission analysis of AG1 + WLAN+BT Worse-case +NFC>

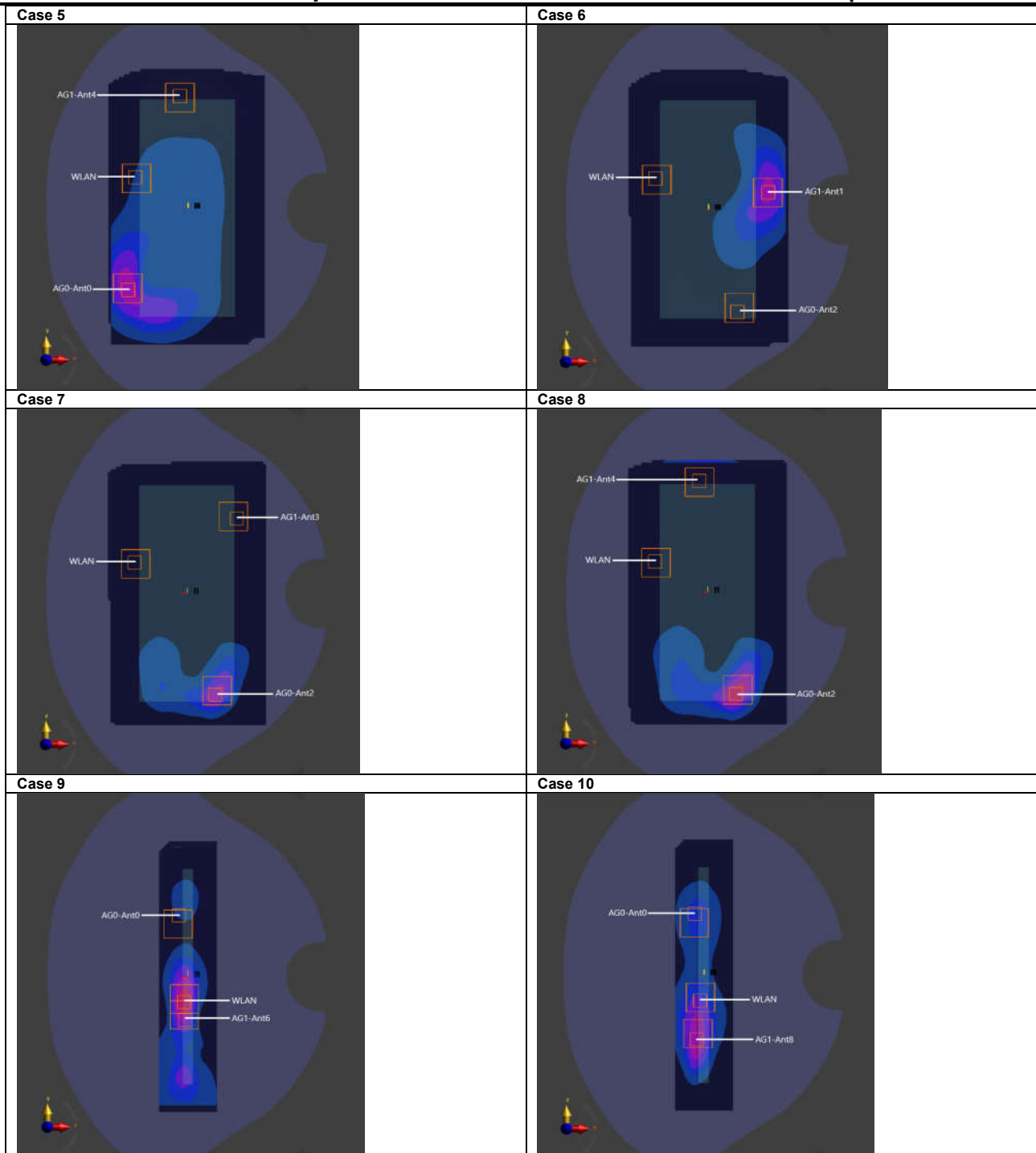
NO	1	2	3	4	Simultaneous		
Test Position	WWAN AG1	NFC	WLAN5GHz Ant 5+6 Power Level 2	WLAN5GHz Ant 5+6 Power Level 3	1+3 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)	1+2+4 Summed 10g SAR (W/kg)
Front	1.477		1.847	1.391	3.32	2.87	2.87
Back	1.747	0.007	0.819	0.634	2.57	2.38	2.39
Left side	3.594				3.59	3.59	3.59
Right side	1.936		1.611	1.611	3.55	3.55	3.55
Top side	2.288		1.412	1.412	3.70	3.70	3.70
Bottom side					0.00	0.00	0.00

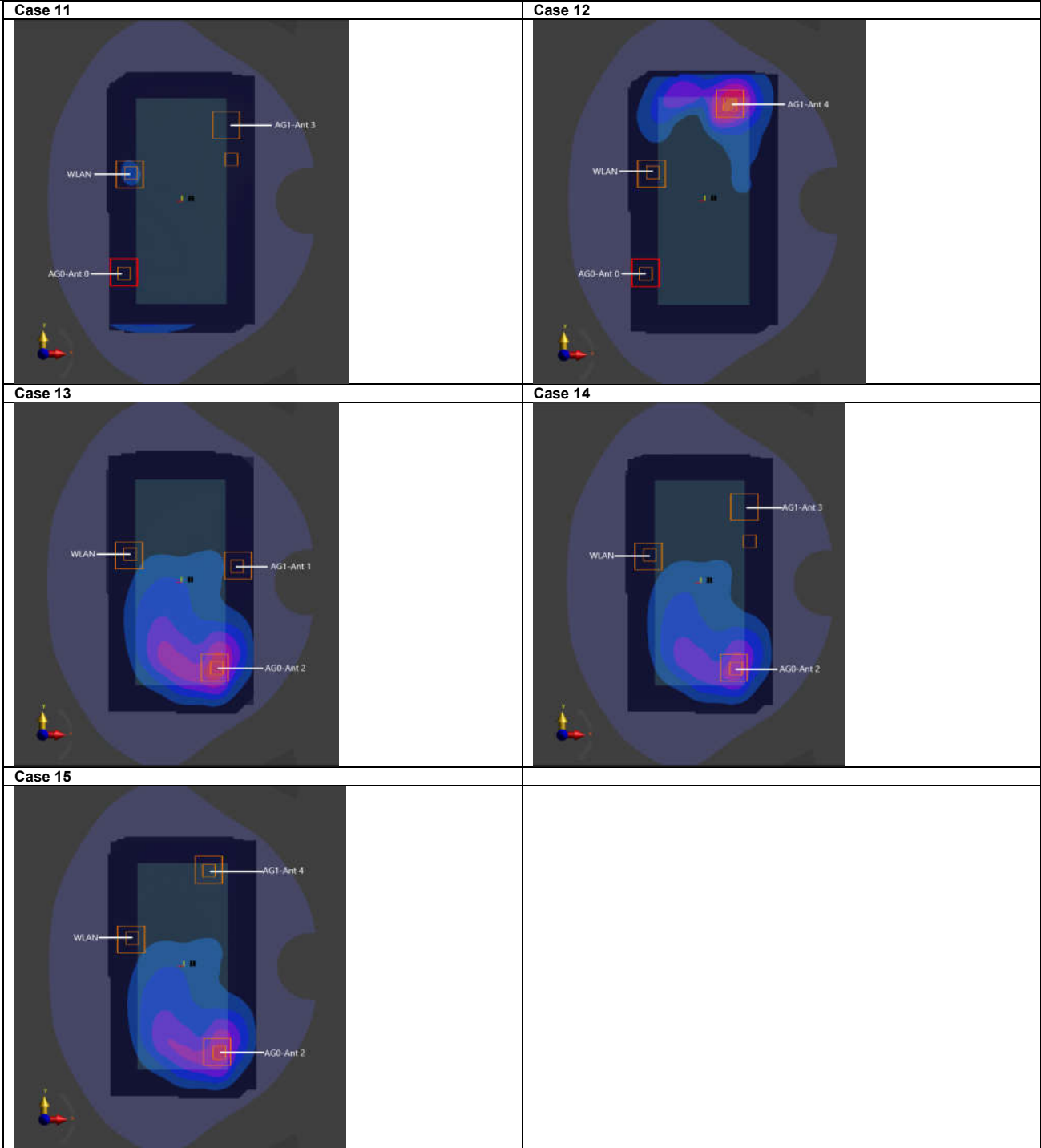
17.7 SPLSR Evaluation and Analysis

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 $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, AG1 was summed algebraically with the BT/WIFI Antenna 3/5 and NFC antenna for the purposes of hybrid SPLSR combination and they are located at the Top of the device.
4. Per April 2022 TCB Workshop, 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.
5. The axis peak locations refer to Section 17.8.









<Hotspot>

Case No	Band	Position	SAR (W/kg)	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	AG0-Ant0	Front	0.520	0.520	10mm	20.00	-56.10	-203.20	110.2	1.72	0.02	Not required
	AG1-Ant1		0.896	1.198	10mm	-70.00	7.50	-203.20				
	WLAN		0.302		10mm							
	AG0-Ant0	Front	0.520	0.520	10mm	20.00	-56.10	-203.20	88.1	1.72	0.03	Not required
	AG1-Ant1		0.896	1.198	10mm							
	WLAN		0.302		10mm	15.00	31.90	-203.20				

Case No	Band	Position	SAR (W/kg)	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	AG0-Ant2	Front	0.600	0.600	10mm	-15.00	-67.50	-203.30	93.0	1.80	0.03	Not required
	AG1-Ant1		0.896	1.198	10mm	-70.00	7.50	-203.20				
	WLAN		0.302		10mm							
	AG0-Ant2	Front	0.600	0.600	10mm	-15.00	-67.50	-203.30	103.8	1.80	0.02	Not required
	AG1-Ant1		0.896	1.198	10mm							
	WLAN		0.302		10mm	15.00	31.90	-203.20				
Case 3	AG0-Ant0	Back	0.520	0.520	10mm	-70.00	-54.30	-203.20	114.2	1.83	0.02	Not required
	AG1-Ant1		0.721	1.308	10mm	20.00	16.00	-203.20				
	WLAN		0.587		10mm							
	AG0-Ant0	Back	0.520	0.520	10mm	-70.00	-54.30	-203.20	80.1	1.83	0.03	Not required
	AG1-Ant1		0.721	1.308	10mm							
	WLAN		0.587		10mm	-65.00	25.60	-203.20				
Case 4	AG0-Ant0	Back	0.520	0.520	10mm	-70.00	-54.30	-203.20	124.2	1.78	0.02	Not required
	AG1-Ant3		0.673	1.260	10mm	15.00	36.20	-203.20				
	WLAN		0.587		10mm							
	AG0-Ant0	Back	0.520	0.520	10mm	-70.00	-54.30	-203.20	80.1	1.78	0.03	Not required
	AG1-Ant3		0.673	1.260	10mm							
	WLAN		0.587		10mm	-65.00	25.60	-203.20				
Case 5	AG0-Ant0	Back	0.520	0.520	10mm	-70.00	-54.30	-203.20	142.1	1.66	0.02	Not required
	AG1-Ant4		0.548	1.135	10mm	-35.00	83.40	-203.20				
	WLAN		0.587		10mm							
	AG0-Ant0	Back	0.520	0.520	10mm	-70.00	-54.30	-203.20	80.1	1.66	0.03	Not required
	AG1-Ant4		0.548	1.135	10mm							
	WLAN		0.587		10mm	-65.00	25.60	-203.20				
Case 6	AG0-Ant2	Back	0.674	0.674	10mm	-5.00	-77.90	-203.20	97.2	1.98	0.03	Not required
	AG1-Ant1		0.721	1.308	10mm	20.00	16.00	-203.20				
	WLAN		0.587		10mm							
	AG0-Ant2	Back	0.674	0.674	10mm	-5.00	-77.90	-203.20	119.6	1.98	0.02	Not required
	AG1-Ant1		0.721	1.308	10mm							
	WLAN		0.587		10mm	-65.00	25.60	-203.20				



Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 7	AG0-Ant2	Back	0.674	0.674	10mm	-5.00	-77.90	-203.20	115.8	1.93	0.02	Not required
	AG1-Ant3		0.673	1.260	10mm	15.00	36.20	-203.20				
	WLAN		0.587		10mm							
	AG0-Ant2	Back	0.674	0.674	10mm	-5.00	-77.90	-203.20	119.6	1.93	0.02	Not required
	AG1-Ant3		0.673	1.260	10mm							
	WLAN		0.587		10mm	-65.00	25.60	-203.20				
Case 8	AG0-Ant2	Back	0.674	0.674	10mm	-5.00	-77.90	-203.20	164.1	1.81	0.01	Not required
	AG1-Ant4		0.548	1.135	10mm	-35.00	83.40	-203.20				
	WLAN		0.587		10mm							
	AG0-Ant2	Back	0.674	0.674	10mm	-5.00	-77.90	-203.20	119.6	1.81	0.02	Not required
	AG1-Ant4		0.548	1.135	10mm							
	WLAN		0.587		10mm	-65.00	25.60	-203.20				
Case 9	AG0-Ant0	Right Side	0.672	0.672	10mm	-33.00	52.70	-203.30	86.6	1.73	0.03	Not required
	AG1-Ant6		0.699	1.054	10mm	-25.00	-33.50	-203.30				
	WLAN		0.355		10mm							
	AG0-Ant0	Right Side	0.672	0.672	10mm	-33.00	52.70	-203.30	71.2	1.73	0.03	Not required
	AG1-Ant6		0.699	1.054	10mm							
	WLAN		0.355		10mm	-25.00	-18.00	-203.30				
Case 10	AG0-Ant0	Right Side	0.672	0.672	10mm	-33.00	52.70	-203.30	104.1	1.73	0.02	Not required
	AG1-Ant8		0.698	1.053	10mm	-33.00	-51.40	-203.30				
	WLAN		0.355		10mm							
	AG0-Ant0	Right Side	0.672	0.672	10mm	-33.00	52.70	-203.30	71.2	1.73	0.03	Not required
	AG1-Ant8		0.698	1.053	10mm							
	WLAN		0.355		10mm	-25.00	-18.00	-203.30				



<Body-worn>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 11	AG0-Ant0	Back	0.293	0.293	15mm	-70.00	-60.30	-203.20	118.8	1.67	0.02	Not required
	AG1-Ant3		0.977	1.378	15mm	5.00	31.80	-203.20				
	WLAN		0.401		15mm							
	AG0-Ant0	Back	0.293	0.293	15mm	-70.00	-60.30	-203.20	83.9	1.67	0.03	Not required
	AG1-Ant3		0.977	1.378	15mm							
	WLAN		0.401		15mm	-65.00	23.50	-203.20				
Case 12	AG0-Ant0	Back	0.293	0.293	15mm	-70.00	-60.30	-203.20	151.1	1.65	0.01	Not required
	AG1-Ant4		0.953	1.354	15mm	-5.00	76.10	-203.20				
	WLAN		0.401		15mm							
	AG0-Ant0	Back	0.293	0.293	15mm	-70.00	-60.30	-203.20	83.9	1.65	0.03	Not required
	AG1-Ant4		0.953	1.354	15mm							
	WLAN		0.401		15mm	-65.00	23.50	-203.20				
Case 13	AG0-Ant2	Back	0.548	0.548	15mm	5.00	-72.10	-203.20	88.8	1.77	0.03	Not required
	AG1-Ant1		0.819	1.220	15mm	20.00	15.40	-203.20				
	WLAN		0.401		15mm							
	AG0-Ant2	Back	0.548	0.548	15mm	5.00	-72.10	-203.20	118.5	1.77	0.02	Not required
	AG1-Ant1		0.819	1.220	15mm							
	WLAN		0.401		15mm	-65.00	23.50	-203.20				
Case 14	AG0-Ant2	Back	0.548	0.548	15mm	5.00	-72.10	-203.20	103.9	1.93	0.03	Not required
	AG1-Ant3		0.977	1.378	15mm	5.00	31.80	-203.20				
	WLAN		0.401		15mm							
	AG0-Ant2	Back	0.548	0.548	15mm	5.00	-72.10	-203.20	118.5	1.93	0.02	Not required
	AG1-Ant3		0.977	1.378	15mm							
	WLAN		0.401		15mm	-65.00	23.50	-203.20				
Case 15	AG0-Ant2	Back	0.548	0.548	15mm	5.00	-72.10	-203.20	148.5	1.90	0.02	Not required
	AG1-Ant4		0.953	1.354	15mm	-5.00	76.10	-203.20				
	WLAN		0.401		15mm							
	AG0-Ant2	Back	0.548	0.548	15mm	5.00	-72.10	-203.20	118.5	1.90	0.02	Not required
	AG1-Ant4		0.953	1.354	15mm							
	WLAN		0.401		15mm	-65.00	23.50	-203.20				



17.8 Maximum Report SAR And SAR Peak Locations

General Note:

1. The maximum report SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.
3. WWAN antenna always chose the worst Axis among each frequency range (750MHz/835MHz/1750MHz/1900MHz/2300MHz/2450MHz/2600MHz/3500MHz/3700MHz/3900MHz) within the selected antenna for each exposure position.

<Hotspot>

Front									
Freq.	Support Band		Ant0	Ant1	Ant2	Ant3	Ant4	Ant6	Ant8
750MHz	LTE Band 12/71 FR1 n12/71	Max SAR	0.488	0.727					
		Axis(X,Y,Z)	X:20 Y:-62.2 Z:-203.2	X:-70 Y:7.5 Z:-203.2					
835MHz	GSM850 4TX WCDMA V LTE Band 26 ,FR1 n5	Max SAR	0.520	0.896					
		Axis	X:20 Y:-56.1 Z:-203.2	X:-70 Y:9.9 Z:-203.2					
1750MHz	WCDMA IV LTE Band 66 FR1 n66	Max SAR			0.600				
		Axis			X:-55 Y:-82.9 Z:-203.2				
1900MHz	GSM1900 4TX WCDMA II LTE Band 25,FR1 n25 FR1 n2/25	Max SAR			0.539				
		Axis			X:-55 Y:-79.2 Z:-203.2				
2300MHz	LTE Band 30 FR1 n30	Max SAR			0.545				
		Axis			X:-15 Y:-67.5 Z:-203.3				
2600MHz	LTE Band 7/41 FR1 n7/41	Max SAR			0.458				
		Axis			X:-55 Y:-75.5 Z:-203.3				
3500/3700/3900MHz	LTE Band 48 FR1 n77	Max SAR							
		Axis							
BT Ant5	SAR	0.225	WLAN2.4G Ant5+6	SAR	0.244				
	Axis	X:5 Y:84.4 Z:-203.2		Axis	X:-15 Y:81 Z:-203.2				
BT Ant6	SAR	0.121	WLAN5G Ant5+6	SAR	0.302				
	Axis	X:15 Y:31.9 Z:-203.2		Axis	X:-5 Y:88 Z:-203.2				

Back									
Freq.	Support Band		Ant0	Ant1	Ant2	Ant3	Ant4	Ant6	Ant8
750MHz	LTE Band 12/71 FR1 n12/71	Max SAR	0.482	0.721					
		Axis(X,Y,Z)	X:-70 Y:-60.6 Z:-203.2	X:20 Y:16.6 Z:-203.2					
835MHz	GSM850 4TX WCDMA V LTE Band 26 ,FR1 n5	Max SAR	0.520	0.697					
		Axis	X:-70 Y:-54.3 Z:-203.2	X:20 Y:16 Z:-203.2					
1750MHz	WCDMA IV LTE Band 66 FR1 n66	Max SAR			0.653	0.460	0.498		
		Axis			X:5 Y:-82 Z:-203.2	X:20 Y:63.1 Z:-203.2	X:-25 Y:86.8 Z:-203.2		
1900MHz	GSM1900 4TX WCDMA II LTE Band 25,FR1 n25 FR1 n2/25	Max SAR			0.562	0.673			
		Axis			X:5 Y:-80 Z:-203.2	X:20 Y:56.9 Z:-203.2			
2300MHz	LTE Band 30 FR1 n30	Max SAR			0.598	0.528			
		Axis			X:-5 Y:-81.8 Z:-203.2	X:15 Y:43.6 Z:-203.2			
2600MHz	LTE Band 7/41 FR1 n7/41	Max SAR			0.674	0.431	0.327		
		Axis			X:-5 Y:-77.9 Z:-203.2	X:15 Y:36.2 Z:-203.2	X:-35 Y:83.4 Z:-203.2		
3500/3700/3900MHz	LTE Band 48 FR1 n77	Max SAR				0.397	0.548		
		Axis				X:15 Y:60.1 Z:-203.2	X:5 Y:84.4 Z:-203.2		
BT Ant5	SAR	0.233	WLAN2.4G Ant5+6	SAR	0.3				
	Axis	X:-55 Y:81.8 Z:-203.2		Axis	X:-45 Y:60.9 Z:-203.2				
BT Ant6	SAR	0.135	WLAN5G Ant5+6	SAR	0.587				
	Axis	X:-65 Y:25.6 Z:-203.2		Axis	X:-55 Y:75.3 Z:-203.2				



Right Side									
Freq.	Support Band		Ant0	Ant1	Ant2	Ant3	Ant4	Ant6	Ant8
750MHz	LTE Band 12/71 FR1 n12/71	Max SAR	0.648						
		Axis(X,Y,Z)	X:-33 Y:52.7 Z:-203.3						
835MHz	GSM850 4TX WCDMA V LTE Band 26 ,FR1 n5	Max SAR	0.672						
		Axis	X:-33 Y:57.8 Z:-203.3						
1750MHz	WCDMA IV LTE Band 66 FR1 n66	Max SAR							0.675
		Axis							X:-33 Y:-51.4 Z:-203.3
1900MHz	GSM1900 4TX WCDMA II LTE Band 25,FR1 n25 FR1 n2/25	Max SAR							
		Axis							
2300MHz	LTE Band 30 FR1 n30	Max SAR							
		Axis							
2600MHz	LTE Band 7/41 FR1 n7/41	Max SAR							0.698
		Axis							X:-25 Y:-61.4 Z:-203.3
3500/3700/3900MHz	LTE Band 48 FR1 n77	Max SAR						0.699	0.651
		Axis						X:-25 Y:-33.5 Z:-203.3	X:-33 Y:-62.3 Z:-203.3
BT Ant5	SAR	0.154	WLAN2.4G Ant5+6	SAR	0.238				
	Axis	X:-25 Y:-77.6 Z:-203.3		Axis	X:-25 Y:-18 Z:-203.3				
BT Ant6	SAR	0.326	WLAN5G Ant5+6	SAR	0.355				
	Axis	X:-25 Y:-20.9 Z:-203.4		Axis	X:-25 Y:-44.5 Z:-203.3				

<Body-worn>

Back									
Freq.	Support Band		Ant0	Ant1	Ant2	Ant3	Ant4	Ant6	Ant8
750MHz	LTE Band 12/71 FR1 n12/71	Max SAR	0.293	0.697					
		Axis(X,Y,Z)	X:-70 Y:-63.6 Z:-203.2	X:20 Y:15.4 Z:-203.2					
835MHz	GSM850 4TX WCDMA V LTE Band 26 ,FR1 n5	Max SAR	0.291	0.819					
		Axis	X:-70 Y:-60.3 Z:-203.2	X:20 Y:17.2 Z:-203.2					
1750MHz	WCDMA IV LTE Band 66 FR1 n66	Max SAR			0.528	0.372	0.953		
		Axis			X:5 Y:-75.4 Z:-203.2	X:20 Y:67.4 Z:-203.2	X:-25 Y:87.1 Z:-203.2		
1900MHz	GSM1900 4TX WCDMA II LTE Band 25,FR1 n25 FR1 n2/25	Max SAR			0.548	0.624			
		Axis			X:5 Y:-72.1 Z:-203.2	X:5 Y:31.8 Z:-203.2			
2300MHz	LTE Band 30 FR1 n30	Max SAR			0.438	0.393			
		Axis			X:-5 Y:-80 Z:-203.2	X:15 Y:45.9 Z:-203.2			
2600MHz	LTE Band 7/41 FR1 n7/41	Max SAR			0.291	0.977	0.702		
		Axis			X:-5 Y:-78.3 Z:-203.2	X:15 Y:33.3 Z:-203.2	X:-35 Y:85 Z:-203.2		
3500/3700/3900MHz	LTE Band 48 FR1 n77	Max SAR				0.808	0.247		
		Axis				X:15 Y:64.3 Z:-203.2	X:-5 Y:76.1 Z:-203.2		
BT Ant5	SAR	0.149	WLAN2.4G Ant5+6	SAR	0.1				
	Axis	X:-55 Y:85 Z:-203.2		Axis	X:-35 Y:74.7 Z:-203.2				
BT Ant6	SAR	0.069	WLAN5G Ant5+6	SAR	0.252				
	Axis	X:-65 Y:23.5 Z:-203.2		Axis	X:-55 Y:76.7 Z:-203.2				

18. Supplemental tuner tests results

General Note:

1. This device implements impedance tuner (144 states) antenna tuning techniques in the WCDMA V, LTE Band 5/12/17/25/26/71, and 5GNR n5/n12/ n71 for ANT0.
2. This device implements impedance tuner (144 states) antenna tuning techniques in the WCDMA II/IV, LTE Band 2/4/7/25/30/38/41/66, and 5GNR n2/n7/n25/n30/n66/n38/n41 for ANT2.
3. LTE B17 / B5 / B4 / B2 SAR test was covered by LTE B12 / B26 / B66 / B25; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
4. 5GNR n38 / n25 SAR test was covered by 5GNR n41 / n2; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
5. Per 2019, April TCBC Workshop titled "RF Exposure Procedures", the following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions.
 - 1) SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
 - 2) Total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
 - 3) The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
 - 4) Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
 - 5) If any single point SAR measurement result is > 1.2 W/kg for 1gSAR (or > 3.0 W/kg for 10gSAR) for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
6. The above test procedures were followed to demonstrate that the SAR results in Section 16 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
7. To evaluate all of the tuner states, the 144 tuner states for ANT0 and ANT2 is divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 10g SAR was > 3.0 W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all 144 tuner states.
8. According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions.
9. According to KDB 648474 D04 v01r03, this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
10. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

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19. 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 and the measured 10-g SAR within a frequency band is < 3.75 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 and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

20. References

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