

15. Antenna Location

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

<SAR test exclusion table>

General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

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

<For Ant.0>

Exposure Position	Wireless Interface	LTE Band 71	FR1 n71	LTE Band 12	FR1 n12	LTE Band 13	FR1 n13	LTE Band 14	FR1 n14	LTE Band 5	LTE Band 26	FR1 n5	LTE Band 66	FR1 66	LTE Band 25	FR1 n25	LTE Band 7	LTE Band 38	FR1 n7
	Calculated Frequency (MHz)	695	688	711	708.5	782	782	793	793	844	841.5	839	1770	1765	1905	1905	2560	2610	2545
	Maximum power (dBm)	25.0	24.0	25.0	24.0	24.0	24.0	25.0	24.0	25.0	24.0	25.0	25.0	25.0	25.0	25.0	24.0	24.0	24.0
	Maximum rated power(mW)	316.23	251.19	316.23	251.19	251.19	251.19	316.23	251.19	316.23	251.19	316.23	316.23	316.23	316.23	316.23	251.19	251.19	251.19
Bottom Face	Separation distance(mm)	5.0																	
	exclusion threshold	52.7	41.7	53.3	42.3	55.9	44.4	56.3	44.7	58.1	46.1	57.9	84.1	84.0	87.3	87.3	80.4	81.2	80.1
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	9.9																	
	exclusion threshold	26.6	21.1	26.9	21.4	28.3	22.4	28.4	22.6	29.4	23.3	29.3	42.5	42.4	44.1	44.1	40.6	41.0	40.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	150.0																	
	exclusion threshold	643.0	640.0	652.0	651.0	691.0	691.0	697.0	1168.0	1163.0	1164.0	1164.0	1113.0	1113.0	1109.0	1109.0	1094.0	1093.0	1094.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	186.0																	
	exclusion threshold	810.0	805.0	823.0	821.0	879.0	879.0	887.0	1528.0	1523.0	1524.0	1524.0	1473.0	1473.0	1469.0	1469.0	1454.0	1453.0	1454.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	5.0																	
	exclusion threshold	52.7	41.7	53.3	42.3	55.9	44.4	56.3	44.7	58.1	46.1	57.9	84.1	84.0	87.3	87.3	80.4	81.2	80.1
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<For Ant.1>

Exposure Position	Wireless Interface	FR1 n41	Part27O_FR1 n77	Part27Q_FR1 n77
	Calculated Frequency (MHz)	2640	3930	3500.01
	Maximum power (dBm)	21.0	21.0	21.0
	Maximum rated power(mW)	125.89	125.89	125.89
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	145.0		
	exclusion threshold	1764.0	2565.0	2297.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 3	Separation distance(mm)	55.0		
	exclusion threshold	180.0	207.0	197.0
	Testing required?	No	No	No
Edge 4	Separation distance(mm)	150.0		
	exclusion threshold	1852.0	2696.0	2414.0
	Testing required?	No	No	No

<For Ant.2>

Exposure Position	Wireless Interface	LTE Band 5	FR1 n5	LTE Band 66	FR1 n66	LTE Band 2	FR1 n25	LTE Band 7	LTE Band 41	FR1 n7	FR1 n41-HPUE
	Calculated Frequency (MHz)	844	839	1770	1765	1900	1905	2560	2680	2545	2640
	Maximum power (dBm)	25.0	25.0	25.0	25.0	24.5	25.0	24.0	25.0	24.0	27.0
	Maximum rated power(mW)	316.23	316.23	316.23	316.23	281.84	316.23	251.19	316.23	251.19	501.19
Bottom Face	Separation distance(mm)	5.0									
	exclusion threshold	58.1	57.9	84.1	84.0	87.2	87.3	80.4	103.5	80.1	162.9
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	125.0									
	exclusion threshold	585.0	583.0	998.0	995.0	1059.0	1061.0	1374.0	842.0	844.0	842.0
	Testing required?	No	No	No	No	No	No	No	No	No	No
Edge 2	Separation distance(mm)	150.0									
	exclusion threshold	726.0	723.0	1293.0	1290.0	1375.0	1379.0	1800.0	1092.0	1094.0	1092.0
	Testing required?	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	81.0									
	exclusion threshold	338.0	337.0	479.0	478.0	501.0	502.0	623.0	402.0	404.0	402.0
	Testing required?	No	No	No	No	No	No	No	No	No	Yes
Edge 4	Separation distance(mm)	5.0									
	exclusion threshold	58.1	57.9	84.1	84.0	87.2	87.3	80.4	103.5	80.1	162.9
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<For Ant.3>

Exposure Position	Wireless Interface	LTE Band 48	FR1 n48	Part27O_FR1 n77-HPUE	Part27Q_FR1 n77-HPUE
Exposure Position	Calculated Frequency (MHz)	3690	3679.98	3930	3500.01
	Maximum power (dBm)	24.5	23.0	27.0	27.0
	Maximum rated power(mW)	281.84	199.53	501.19	501.19
	Maximum rated power(mW)	281.84	199.53	501.19	501.19
Bottom Face	Separation distance(mm)	5.0			
	exclusion threshold	108.3	76.6	198.7	187.5
	Testing required?	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	81.0			
	exclusion threshold	841.0	839.0	888.0	804.0
	Testing required?	No	No	No	No
Edge 2	Separation distance(mm)	150.0			
	exclusion threshold	2538.0	2532.0	2696.0	2414.0
	Testing required?	No	No	No	No
Edge 3	Separation distance(mm)	160.0			
	exclusion threshold	2784.0	2777.0	2958.0	2647.0
	Testing required?	No	No	No	No
Edge 4	Separation distance(mm)	5.0			
	exclusion threshold	108.3	76.6	198.7	187.5
	Testing required?	Yes	Yes	Yes	Yes

<For Ant.4>

Exposure Position	Wireless Interface	FR1 n41	Part27O_FR1 n77	Part27Q_FR1 n77
Exposure Position	Calculated Frequency (MHz)	2640	3930	3500.01
	Maximum power (dBm)	21.0	21.0	21.0
	Maximum rated power(mW)	125.89	125.89	125.89
	Maximum rated power(mW)	125.89	125.89	125.89
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	250.0		
	exclusion threshold	3612.0	5316.0	4747.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	43.0		
	exclusion threshold	4.8	5.8	5.5
	Testing required?	Yes	Yes	Yes
Edge 3	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	104.0		
	exclusion threshold	1043.0	1490.0	1340.0
	Testing required?	No	No	No

<For Ant.5>

Exposure Position	Wireless Interface	FR1 n41	Part27O_FR1 n77	Part27Q_FR1 n77
	Calculated Frequency (MHz)	2640	3930	3500.01
	Maximum power (dBm)	21.0	21.0	21.0
	Maximum rated power(mW)	125.89	125.89	125.89
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	250.0		
	exclusion threshold	3612.0	5316.0	4747.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	71.5		
	exclusion threshold	471.0	639.0	582.0
	Testing required?	No	No	No
Edge 3	Separation distance(mm)	5.0		
	exclusion threshold	40.9	49.9	47.1
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	59.0		
	exclusion threshold	251.0	311.0	290.0
	Testing required?	No	No	No

<For Ant.6&7>

Exposure Position	Wireless Interface	BT ANT 6	2.4GHz WLAN ANT 6	2.4GHz WLAN ANT 7	5GHz WLAN ANT 6	5GHz WLAN ANT 7
	Calculated Frequency (MHz)	2480	2462	2462	5825	5825
	Maximum power (dBm)	5.5	22.0	22.5	23.0	23.0
	Maximum rated power(mW)	3.55	158.49	177.83	199.53	199.53
Bottom Face	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0
	exclusion threshold	1.1	49.7	55.8	96.3	96.3
	Testing required?	No	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	224.0	224.0	5.0	224.0	5.0
	exclusion threshold	1835.0	1836.0	55.8	1802.0	96.3
	Testing required?	No	No	Yes	No	Yes
Edge 2	Separation distance(mm)	150.0	150.0	95.0	150.0	95.0
	exclusion threshold	1095.0	1096.0	546.0	1062.0	512.0
	Testing required?	No	No	No	No	No
Edge 3	Separation distance(mm)	11.0	11.0	240.0	11.0	240.0
	exclusion threshold	0.5	22.6	1996.0	43.8	1962.0
	Testing required?	No	Yes	No	Yes	No
Edge 4	Separation distance(mm)	5.0	5.0	30.5	5.0	30.5
	exclusion threshold	1.1	49.7	9.2	96.3	15.8
	Testing required?	No	Yes	Yes	Yes	Yes

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result.
The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. For Ant0/3, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 1 and edge 4 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
5. For Ant2/6, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 4 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
6. For Ant7, the device employs proximity sensors that detect the presence of the user's body also a finger or hand near the bottom face, edge 1 of the device, reduced power will be active. (P-sensor can't work at detecting presence of the user's body at other edges of the device.)
7. For WWAN Ant 0 distance SAR test at Bottom Face 17mm/18mm, Edge 4 15mm, Edge 1 14mm is only for simultaneous transmission analysis with WLAN.
8. For WWAN Ant 2 distance SAR test at Bottom Face 17mm/18mm is only for simultaneous transmission analysis with WLAN.
9. For WWAN Ant 3 distance SAR test at Bottom Face 17mm/18mm, Edge 4 15mm is only for simultaneous transmission analysis with WLAN.
10. For WLAN 2.4GHz/5GHz Ant 6 distance SAR test at Bottom Face 13mm, Edge 4 14mm is only for simultaneous transmission analysis with WWAN.
11. For WLAN 2.4GHz/5GHz Ant 7 distance SAR test at Bottom Face 13mm/18mm, Edge 1 1mm is only for simultaneous transmission analysis with WWAN.
12. Standalone 1-g SAR testing for NFC was performed with active mode and max power mode by configuring software with 100% duty cycle at 0mm separation distance.
13. SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.
14. SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.
15. The following table "0.000" in the result means the SAR cube is too small to be found.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / 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 band 4/17 SAR test was covered by Band 66/12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

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

WLAN Note:

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

DSI status description:

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

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

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



16.1 Body SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																		
01	LTE Band 71	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	133322	683	24.02	25.00	1.253	0.03	0.343	0.430
	LTE Band 71	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	133322	683	23.06	24.00	1.242	0.18	0.283	0.351
	LTE Band 71	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	133322	683	24.02	25.00	1.253	0.07	0.048	0.060
	LTE Band 71	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	133322	683	23.06	24.00	1.242	0.02	0.003	0.004
	LTE Band 71	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	133322	683	24.02	25.00	1.253	0.03	0.629	0.788
	LTE Band 71	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	133322	683	23.52	24.40	1.225	0.03	0.542	0.664
02	LTE Band 71	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	133322	683	23.06	24.00	1.242	0.03	0.523	0.649
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	136100	680.5	23.19	24.00	1.205	0.07	0.312	0.376
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	136100	680.5	23.17	24.00	1.211	0.02	0.296	0.358
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	136100	680.5	23.19	24.00	1.205	-0.07	0.135	0.163
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	136100	680.5	23.17	24.00	1.211	0.14	0.133	0.161
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	136100	680.5	23.19	24.00	1.205	0.02	0.481	0.580
03	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	136100	680.5	23.17	24.00	1.211	-0.07	0.476	0.576
	LTE Band 12	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	23095	707.5	23.99	24.50	1.125	0.02	0.935	1.052
	LTE Band 12	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	23095	707.5	21.34	22.30	1.247	0.03	0.426	0.531
	LTE Band 12	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 0	DSI 1	23095	707.5	22.92	24.00	1.282	0.02	0.776	0.995
	LTE Band 12	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	23095	707.5	22.98	24.00	1.265	0.15	0.787	0.995
	LTE Band 12	10M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	23095	707.5	23.99	24.50	1.125	0.12	0.224	0.252
	LTE Band 12	10M	QPSK	25	0	-	Edge 1	0mm	Ant 0	DSI 1	23095	707.5	22.92	24.00	1.282	0.02	0.207	0.265
	LTE Band 12	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	23095	707.5	23.99	24.50	1.125	0.05	1.000	1.125
	LTE Band 12	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	23095	707.5	21.34	22.30	1.247	0.04	0.545	0.680
	LTE Band 12	10M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	23095	707.5	21.34	22.30	1.247	0.01	0.033	0.041
	LTE Band 12	10M	QPSK	25	0	-	Edge 4	0mm	Ant 0	DSI 1	23095	707.5	22.92	24.00	1.282	0.12	0.816	1.046
	LTE Band 12	10M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	23095	707.5	22.98	24.00	1.265	0.15	0.851	1.076
	LTE Band 12	10M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 0	23095	707.5	23.99	25.00	1.262	0.07	0.146	0.184
	LTE Band 12	10M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	23095	707.5	23.99	25.00	1.262	0.04	0.356	0.449
	LTE Band 12	10M	QPSK	25	0	-	Edge 1	1mm	Ant 0	DSI 0	23095	707.5	23.92	25.00	1.282	0.08	0.120	0.154
	LTE Band 12	10M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	23095	707.5	23.99	25.00	1.262	0.07	0.080	0.101
	LTE Band 12	10M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	23095	707.5	23.99	25.00	1.262	0.02	0.221	0.279
04	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	141500	707.5	23.08	24.00	1.236	0.04	0.648	0.801
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	141500	707.5	21.44	22.70	1.337	0.04	0.411	0.549
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	141500	707.5	23.03	24.00	1.250	0.02	0.637	0.796
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	141500	707.5	22.16	23.00	1.213	0.08	0.605	0.734
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	141500	707.5	23.08	24.00	1.236	0.07	0.302	0.373
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	141500	707.5	23.03	24.00	1.250	0.06	0.270	0.338
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	141500	707.5	23.08	24.00	1.236	0.03	0.741	0.916
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	141500	707.5	21.44	22.70	1.337	0.03	0.515	0.688
05	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	141500	707.5	23.03	24.00	1.250	0.04	0.661	0.826
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	141500	707.5	22.16	23.00	1.213	0.08	0.639	0.775
	LTE Band 13	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	23230	782	21.07	22.80	1.489	0.02	0.679	1.011
	LTE Band 13	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	23230	782	18.54	20.20	1.466	0.02	0.388	0.569
	LTE Band 13	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 0	DSI 1	23230	782	21.05	22.80	1.496	0.14	0.562	0.841
	LTE Band 13	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	23230	782	21.01	22.80	1.510	-0.06	0.557	0.841
	LTE Band 13	10M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	23230	782	21.07	22.80	1.489	-0.05	0.129	0.192
	LTE Band 13	10M	QPSK	25	0	-	Edge 1	0mm	Ant 0	DSI 1	23230	782	21.05	22.80	1.496	0.08	0.107	0.160
	LTE Band 13	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	23230	782	21.07	22.80	1.489	0.03	0.839	1.250
	LTE Band 13	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	23230	782	18.54	20.20	1.466	0.01	0.454	0.665
	LTE Band 13	10M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	23230	782	18.54	20.20	1.466	0.09	0.034	0.050
	LTE Band 13	10M	QPSK	25	0	-	Edge 4	0mm	Ant 0	DSI 1	23230	782	21.05	22.80	1.496	0.02	0.833	1.246
	LTE Band 13	10M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	23230	782	21.01	22.80	1.510	0.14	0.794	1.199
	LTE Band 13	10M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	23230	782	23.01	24.00	1.256	0.02	0.302	0.379



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	LTE Band 13	10M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	23230	782	23.01	24.00	1.256	-0.06	0.185	0.232
	LTE Band 13	10M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	23230	782	23.01	24.00	1.256	0.14	0.080	0.100
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	156400	782	22.98	24.00	1.265	-0.03	0.756	0.956
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	156400	782	22.95	24.00	1.274	0.17	0.771	0.982
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	156400	782	20.78	21.80	1.265	0.17	0.411	0.520
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	156400	782	21.98	23.00	1.265	0.08	0.712	0.900
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	156400	782	22.98	24.00	1.265	-0.13	0.147	0.186
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	156400	782	22.95	24.00	1.274	0.04	0.182	0.232
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	156400	782	22.98	24.00	1.265	0.17	0.738	0.933
06	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	156400	782	22.95	24.00	1.274	0.07	0.892	1.136
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	156400	782	20.78	21.80	1.265	0.04	0.542	0.685
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	156400	782	21.98	23.00	1.265	0.08	0.783	0.990
	LTE Band 14	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	23330	793	20.83	22.00	1.309	0.03	0.632	0.827
	LTE Band 14	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	23330	793	18.27	19.40	1.297	0.03	0.255	0.331
	LTE Band 14	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 0	DSI 1	23330	793	20.79	22.00	1.321	0.01	0.525	0.694
	LTE Band 14	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	23330	793	20.77	22.00	1.327	0.04	0.539	0.715
	LTE Band 14	10M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	23330	793	20.83	22.00	1.309	0.02	0.103	0.135
	LTE Band 14	10M	QPSK	25	0	-	Edge 1	0mm	Ant 0	DSI 1	23330	793	20.79	22.00	1.321	0.14	0.086	0.114
07	LTE Band 14	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	23330	793	20.83	22.00	1.309	0.06	0.951	1.245
	LTE Band 14	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	23330	793	18.27	19.40	1.297	0.01	0.489	0.634
	LTE Band 14	10M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	23330	793	18.27	19.40	1.297	0.05	0.039	0.051
	LTE Band 14	10M	QPSK	25	0	-	Edge 4	0mm	Ant 0	DSI 1	23330	793	20.79	22.00	1.321	0.05	0.810	1.070
	LTE Band 14	10M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	23330	793	20.77	22.00	1.327	0.1	0.796	1.057
	LTE Band 14	10M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 0	23330	793	23.99	25.00	1.262	0.08	0.211	0.266
	LTE Band 14	10M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	23330	793	23.99	25.00	1.262	0.03	0.401	0.506
	LTE Band 14	10M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	23330	793	23.99	25.00	1.262	0.06	0.195	0.246
	LTE Band 14	10M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	23330	793	23.99	25.00	1.262	-0.1	0.107	0.135
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	158600	793	21.44	22.40	1.247	0.07	0.688	0.858
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	158600	793	21.38	22.40	1.265	0.06	0.740	0.936
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	158600	793	18.90	19.80	1.230	0.06	0.366	0.450
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	158600	793	21.26	22.40	1.300	-0.06	0.695	0.904
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	158600	793	21.44	22.40	1.247	0.02	0.108	0.135
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	158600	793	21.38	22.40	1.265	-0.11	0.119	0.151
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	158600	793	21.44	22.40	1.247	0.03	0.786	0.980
08	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	158600	793	21.38	22.40	1.265	0.08	0.987	1.248
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	158600	793	18.90	19.80	1.230	0.08	0.555	0.683
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Edge 4	15mm	Ant 0	DSI 3	158600	793	18.90	19.80	1.230	0.02	0.041	0.050
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	158600	793	21.26	22.40	1.300	0.09	0.877	1.140
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	158600	793	22.93	24.00	1.279	-0.19	0.531	0.679
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	18mm	Ant 0	DSI 0	158600	793	22.93	24.00	1.279	0.09	0.263	0.336
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	158600	793	22.93	24.00	1.279	0.11	0.160	0.205
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	158600	793	22.93	24.00	1.279	0.12	0.412	0.527
835MHz																		
09	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	20525	836.5	22.88	24.10	1.324	0.02	0.933	1.236
	LTE Band 5	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 2	DSI 1	20525	836.5	22.78	24.00	1.324	0.08	0.931	1.233
	LTE Band 5	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	20525	836.5	22.71	24.00	1.346	0.01	0.753	1.013
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	20525	836.5	22.88	24.10	1.324	0.19	0.562	0.744
	LTE Band 5	10M	QPSK	25	0	-	Edge 4	0mm	Ant 2	DSI 1	20525	836.5	22.78	24.00	1.324	0.02	0.329	0.436
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	13mm	Ant 2	DSI 0	20525	836.5	24.15	25.00	1.216	0.05	0.314	0.382
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	15mm	Ant 2	DSI 0	20525	836.5	24.15	25.00	1.216	0.07	0.101	0.123
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	20525	836.5	19.87	21.00	1.297	-0.07	0.749	0.972
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	20525	836.5	17.88	18.40	1.127	-0.07	0.366	0.413
	LTE Band 5	10M	QPSK	25	0	-	Bottom Face	0mm	Ant 0	DSI 1	20525	836.5	19.86	21.00	1.300	0.07	0.609	0.792
	LTE Band 5	10M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	20525	836.5	19.84	21.00	1.306	0.02	0.604	0.789
	LTE Band 5	10M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	20525	836.5	19.87	21.00	1.297	0.03	0.132	0.171
	LTE Band 5	10M	QPSK	25	0	-	Edge 1	0mm	Ant 0	DSI 1	20525	836.5	19.86	21.00	1.300	-0.09	0.104	0.135



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	LTE Band 5	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	20525	836.5	19.87	21.00	1.297	0.05	0.942	1.222
	LTE Band 5B	10M	QPSK	1	49	-	Edge 4	0mm	Ant 0	DSI 1	20476+ 20575	831.6+ 841.5	19.72	21.00	1.343	0.06	0.905	1.215
	LTE Band 5B	10M	QPSK	1	49	-	Edge 4	0mm	Ant 0	DSI 1	20450+ 20549	829+ 838.9	19.62	21.00	1.374	0.05	0.880	1.209
	LTE Band 5B	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	20600+ 20501	844+ 834.1	19.68	21.00	1.355	0.07	0.865	1.172
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	20525	836.5	17.88	18.40	1.127	0.01	0.533	0.601
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	20525	836.5	17.88	18.40	1.127	0.05	0.041	0.046
	LTE Band 5	10M	QPSK	25	0	-	Edge 4	0mm	Ant 0	DSI 1	20525	836.5	19.86	21.00	1.300	-0.07	0.763	0.992
	LTE Band 5	10M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	20525	836.5	19.84	21.00	1.306	0.07	0.783	1.023
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 0	20525	836.5	24.05	25.00	1.245	0.07	0.175	0.218
	LTE Band 5	10M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	20525	836.5	24.05	25.00	1.245	0.05	0.315	0.392
	LTE Band 5	10M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	20525	836.5	24.05	25.00	1.245	-0.04	0.112	0.139
	LTE Band 5	10M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	20525	836.5	24.05	25.00	1.245	0.12	0.034	0.042
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	167300	836.5	23.93	24.50	1.140	0.04	0.918	1.047
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	167300	836.5	23.84	24.50	1.164	-0.03	0.754	0.878
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	167300	836.5	22.83	24.00	1.309	0.08	0.733	0.960
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	167300	836.5	23.93	24.50	1.140	0.17	0.655	0.747
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	167300	836.5	23.84	24.50	1.164	-0.13	0.558	0.650
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	167300	836.5	23.19	25.00	1.517	0.02	0.365	0.554
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	18mm	Ant 2	DSI 0	167300	836.5	23.19	25.00	1.517	0.03	0.156	0.237
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	167300	836.5	23.19	25.00	1.517	0.05	0.099	0.150
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	167300	836.5	21.42	22.10	1.169	0.13	0.992	1.160
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	167300	836.5	21.27	22.10	1.211	0.02	1.010	1.223
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	167300	836.5	18.32	19.50	1.312	0.02	0.466	0.611
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	167300	836.5	21.24	22.10	1.219	0.06	0.718	0.875
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	167300	836.5	21.42	22.10	1.169	0.02	0.193	0.226
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	167300	836.5	21.27	22.10	1.211	0.06	0.194	0.235
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.42	22.10	1.169	-0.04	0.866	1.013
10	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.27	22.10	1.211	0.03	1.020	1.235
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	167300	836.5	18.32	19.50	1.312	0.02	0.488	0.640
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	15mm	Ant 0	DSI 3	167300	836.5	18.32	19.50	1.312	0.07	0.035	0.046
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.24	22.10	1.219	-0.06	0.766	0.934
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	167300	836.5	24.31	25.00	1.172	-0.02	0.388	0.455
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	18mm	Ant 0	DSI 0	167300	836.5	24.31	25.00	1.172	0.03	0.155	0.182
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	167300	836.5	24.45	25.00	1.135	0.07	0.352	0.400
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	167300	836.5	24.31	25.00	1.172	0.11	0.088	0.103
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	167300	836.5	24.45	25.00	1.135	0.03	0.062	0.070
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	167300	836.5	24.31	25.00	1.172	0.05	0.176	0.206
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	167300	836.5	24.45	25.00	1.135	0.07	0.122	0.138
	LTE Band 26	15M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	26865	831.5	19.90	21.20	1.349	-0.18	0.736	0.993
	LTE Band 26	15M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	26865	831.5	17.33	18.60	1.340	-0.18	0.366	0.490
	LTE Band 26	15M	QPSK	36	0	-	Bottom Face	0mm	Ant 0	DSI 1	26865	831.5	19.87	21.20	1.358	-0.16	0.598	0.812
	LTE Band 26	15M	QPSK	75	0	-	Bottom Face	0mm	Ant 0	DSI 1	26865	831.5	19.75	21.20	1.396	0.14	0.594	0.829
	LTE Band 26	15M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	26865	831.5	19.90	21.20	1.349	-0.18	0.130	0.175
	LTE Band 26	15M	QPSK	36	0	-	Edge 1	0mm	Ant 0	DSI 1	26865	831.5	19.87	21.20	1.358	0.09	0.103	0.140
11	LTE Band 26	15M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	26865	831.5	19.90	21.20	1.349	0.03	0.926	1.249
	LTE Band 26	15M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	26865	831.5	17.33	18.60	1.340	0.07	0.510	0.683
	LTE Band 26	15M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	26865	831.5	17.33	18.60	1.340	0.01	0.065	0.087
	LTE Band 26	15M	QPSK	36	0	-	Edge 4	0mm	Ant 0	DSI 1	26865	831.5	19.87	21.20	1.358	0.16	0.750	1.019
	LTE Band 26	15M	QPSK	75	0	-	Edge 4	0mm	Ant 0	DSI 1	26865	831.5	19.75	21.20	1.396	-0.05	0.769	1.074
	LTE Band 26	15M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	26865	831.5	23.00	24.00	1.259	0.03	0.281	0.354
	LTE Band 26	15M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	26865	831.5	23.00	24.00	1.259	0.05	0.189	0.238
	LTE Band 26	15M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	26865	831.5	23.00	24.00	1.259	-0.03	0.089	0.112
1750MHz																		
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	19.13	19.50	1.089	0.03	1.130	1.230
	LTE Band 66C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 0	DSI 1	132322+	1745+	18.54	19.50	1.247	0.05	0.983	1.226



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											132520	1718						
	LTE Band 66C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 0	DSI 1	132072+132270	1720+1739.8	18.42	19.50	1.282	0.04	0.936	1.200
	LTE Band 66C	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132572+132374	1770+1750.2	18.35	19.50	1.303	0.09	0.927	1.208
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	132322	1745	16.56	16.90	1.081	0.07	0.566	0.612
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132072	1720	19.02	19.50	1.117	0.18	0.976	1.090
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132572	1770	19.05	19.50	1.109	0.04	1.042	1.156
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	19.10	19.50	1.096	-0.09	0.845	0.927
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	132072	1720	19.02	19.50	1.117	0.19	0.805	0.899
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	132572	1770	19.04	19.50	1.112	0.09	0.914	1.016
	LTE Band 66	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	19.06	19.50	1.107	-0.04	0.837	0.926
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	132322	1745	19.13	19.50	1.089	-0.14	0.369	0.402
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	132072	1720	19.02	19.50	1.117	0.09	0.410	0.458
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	132572	1770	19.05	19.50	1.109	0.08	0.373	0.414
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	132322	1745	19.10	19.50	1.096	0.07	0.302	0.331
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	132072	1720	19.02	19.50	1.117	-0.16	0.334	0.373
	LTE Band 66	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	132572	1770	19.04	19.50	1.112	0.06	0.307	0.341
	LTE Band 66	20M	QPSK	100	0	-	Edge 1	0mm	Ant 0	DSI 1	132322	1745	19.06	19.50	1.107	0.02	0.305	0.338
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	132322	1745	19.13	19.50	1.089	0.04	0.867	0.944
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	132072	1720	19.02	19.50	1.117	0.05	0.724	0.809
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	132572	1770	19.05	19.50	1.109	0.07	1.070	1.187
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	132572	1770	16.51	16.90	1.094	0.07	0.433	0.474
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	132572	1770	16.51	16.90	1.094	0.04	0.044	0.048
	LTE Band 66	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	132322	1745	19.10	19.50	1.096	-0.06	0.695	0.762
	LTE Band 66	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	132322	1745	19.06	19.50	1.107	-0.19	0.695	0.769
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	132322	1745	24.11	25.00	1.227	0.15	0.466	0.572
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 0	132322	1745	24.11	25.00	1.227	0.15	0.312	0.383
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	132072	1720	23.97	25.00	1.268	0.09	0.563	0.714
	LTE Band 66	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 2	132072	1720	23.79	24.50	1.178	0.01	0.522	0.615
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	132572	1770	24.03	25.00	1.250	-0.09	0.262	0.328
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	132322	1745	16.71	17.50	1.199	-0.1	0.815	0.978
12	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	132072	1720	16.64	17.50	1.219	0.05	1.030	1.256
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	132572	1770	16.59	17.50	1.233	-0.03	0.770	0.949
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	132322	1745	16.65	17.50	1.216	0.16	0.729	0.887
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	132072	1720	16.63	17.50	1.222	0.18	0.790	0.965
	LTE Band 66	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	132572	1770	16.62	17.50	1.225	0.15	0.703	0.861
	LTE Band 66	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	132322	1745	16.68	17.50	1.208	0.05	0.730	0.882
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	132322	1745	16.71	17.50	1.199	0.02	0.594	0.713
	LTE Band 66	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	132322	1745	16.65	17.50	1.216	-0.15	0.499	0.607
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	13mm	Ant 2	DSI 0	132072	1720	23.95	25.00	1.274	0.03	0.764	0.973
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 2	DSI 0	132072	1720	23.95	25.00	1.274	0.03	0.300	0.382
	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 2	DSI 0	132072	1720	23.95	25.00	1.274	0.06	0.280	0.357
	LTE Band 66	20M	QPSK	1	0	-	Edge 4	15mm	Ant 2	DSI 0	132072	1720	23.95	25.00	1.274	-0.15	0.364	0.464
13	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.44	19.50	1.276	0.04	0.965	1.232
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	349000	1745	15.96	16.90	1.242	0.03	0.548	0.680
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.39	19.50	1.291	0.04	0.951	1.228
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	349000	1745	18.38	19.50	1.294	0.02	0.795	1.029
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	349000	1745	18.44	19.50	1.276	0.07	0.278	0.355
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	349000	1745	18.39	19.50	1.291	0.16	0.265	0.342
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	349000	1745	18.44	19.50	1.276	-0.13	0.566	0.722
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	349000	1745	18.39	19.50	1.291	-0.15	0.670	0.865
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	349000	1745	15.92	16.90	1.253	-0.15	0.330	0.414
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	349000	1745	18.38	19.50	1.294	0.12	0.488	0.632
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	349000	1745	24.60	25.00	1.096	0.09	0.537	0.589
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	18mm	Ant 0	DSI 0	349000	1745	24.60	25.00	1.096	0.05	0.287	0.315
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	349000	1745	24.57	25.00	1.104	0.02	0.278	0.307



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	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	349000	1745	24.60	25.00	1.096	0.01	0.852	0.934
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	349000	1745	23.61	24.00	1.094	0.07	0.742	0.812
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 2	349000	1745	22.17	23.60	1.390	0.02	0.491	0.682
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	349000	1745	16.59	17.30	1.178	0.05	0.643	0.757
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	349000	1745	16.57	17.30	1.183	0.12	0.720	0.852
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	349000	1745	16.55	17.30	1.189	-0.04	0.534	0.635
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	349000	1745	16.59	17.30	1.178	0.02	0.990	1.166
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	349000	1745	16.57	17.30	1.183	0.02	1.040	1.230
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	349000	1745	16.55	17.30	1.189	0.06	0.754	0.896
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	349000	1745	23.82	25.00	1.312	0.01	0.862	1.131
	FR1 n66	30M	QPSK	160	0	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	349000	1745	22.81	24.00	1.315	0.08	0.749	0.985
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Bottom Face	17mm	Ant 2	DSI 0	349000	1745	23.82	25.00	1.312	0.03	0.320	0.420
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Bottom Face	18mm	Ant 2	DSI 0	349000	1745	23.82	25.00	1.312	0.06	0.283	0.371
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	349000	1745	23.84	25.00	1.306	0.04	0.662	0.865
	FR1 n66	30M	QPSK	80	40	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	349000	1745	23.82	25.00	1.312	0.02	0.444	0.583
	FR1 n66	30M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	349000	1745	23.84	25.00	1.306	0.05	0.334	0.436
1900MHz																		
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	26340	1880	16.79	17.30	1.125	0.02	0.846	0.951
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	26140	1860	16.54	17.30	1.191	0.04	0.812	0.967
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	26590	1905	16.66	17.30	1.159	0.01	0.841	0.975
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	26590	1905	14.23	14.70	1.114	0.01	0.422	0.470
	LTE Band 25	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	26340	1880	16.77	17.30	1.130	-0.17	0.705	0.797
	LTE Band 25	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	26140	1860	16.54	17.30	1.191	0.06	0.682	0.812
	LTE Band 25	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	26590	1905	16.63	17.30	1.167	0.16	0.703	0.820
	LTE Band 25	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 0	DSI 1	26340	1880	16.75	17.30	1.135	0.16	0.700	0.795
	LTE Band 25	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	26340	1880	16.79	17.30	1.125	0.05	0.152	0.171
	LTE Band 25	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	26340	1880	16.77	17.30	1.130	0.18	0.127	0.143
	LTE Band 25	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	26340	1880	16.79	17.30	1.125	0.18	0.993	1.117
	LTE Band 25	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	26140	1860	16.54	17.30	1.191	0.13	0.927	1.104
14	LTE Band 25	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	26590	1905	16.66	17.30	1.159	0.04	1.050	1.217
	LTE Band 25	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	26590	1905	14.23	14.70	1.114	0.02	0.505	0.563
	LTE Band 25	20M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	26590	1905	14.23	14.70	1.114	0.08	0.055	0.061
	LTE Band 25	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	26340	1880	16.77	17.30	1.130	-0.07	0.825	0.932
	LTE Band 25	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	26140	1860	16.54	17.30	1.191	-0.09	0.778	0.927
	LTE Band 25	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	26590	1905	16.63	17.30	1.167	0.05	0.875	1.021
	LTE Band 25	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	26340	1880	16.75	17.30	1.135	-0.12	0.825	0.936
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	26340	1880	23.78	25.00	1.324	0.03	0.564	0.747
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 2	26340	1880	23.15	24.50	1.365	-0.01	0.503	0.686
	LTE Band 25	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 2	26340	1880	23.15	24.50	1.365	-0.01	0.274	0.374
	LTE Band 25	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	26340	1880	23.78	25.00	1.324	-0.18	0.515	0.682
	LTE Band 25	20M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	26590	1905	23.72	25.00	1.343	0.01	0.364	0.489
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	18900	1880	16.25	17.20	1.245	-0.18	0.863	1.074
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	18700	1860	16.15	17.20	1.274	0.06	0.886	1.128
15	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	19100	1900	16.09	17.20	1.291	-0.03	0.967	1.249
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	18900	1880	16.17	17.20	1.268	-0.02	0.779	0.988
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	18700	1860	16.15	17.20	1.274	0.08	0.698	0.889
	LTE Band 2	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	19100	1900	16.11	17.20	1.285	0.03	0.683	0.878
	LTE Band 2	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	18900	1880	16.22	17.20	1.253	0.03	0.676	0.847
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	18900	1880	16.25	17.20	1.245	0.08	0.888	1.105
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	18700	1860	16.15	17.20	1.274	-0.06	0.936	1.192
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	19100	1900	16.09	17.20	1.291	-0.09	0.834	1.077
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	18900	1880	16.17	17.20	1.268	0.1	0.643	0.815
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	18700	1860	16.15	17.20	1.274	-0.05	0.697	0.888
	LTE Band 2	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	19100	1900	16.11	17.20	1.285	-0.12	0.604	0.776
	LTE Band 2	20M	QPSK	100	0	-	Edge 4	0mm	Ant 2	DSI 1	18900	1880	16.22	17.20	1.253	-0.1	0.680	0.852
	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	13mm	Ant 2	DSI 0	19100	1900	24.21	24.50	1.069	0.02	0.683	0.730



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	LTE Band 2	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 2	DSI 0	19100	1900	24.21	24.50	1.069	0.04	0.215	0.230
	LTE Band 2	20M	QPSK	1	0	-	Edge 4	15mm	Ant 2	DSI 0	18700	1860	24.26	24.50	1.057	-0.05	0.368	0.389
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	376500	1882.5	17.29	17.90	1.151	-0.07	1.010	1.162
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	372000	1860	17.23	17.90	1.167	0.03	0.998	1.164
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	381000	1905	17.16	17.90	1.186	0.04	0.921	1.092
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	376500	1882.5	17.22	17.90	1.169	0.05	1.020	1.193
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	376500	1882.5	14.75	15.30	1.135	0.05	0.511	0.580
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	372000	1860	17.19	17.90	1.178	0.05	0.954	1.123
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	381000	1905	17.13	17.90	1.194	0.07	0.951	1.135
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	376500	1882.5	17.17	17.90	1.183	0.02	0.978	1.157
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	376500	1882.5	17.29	17.90	1.151	0.05	0.186	0.214
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	376500	1882.5	17.22	17.90	1.169	-0.16	0.187	0.219
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376500	1882.5	17.29	17.90	1.151	0.11	0.983	1.131
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	372000	1860	17.23	17.90	1.167	0.03	0.884	1.031
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	381000	1905	17.16	17.90	1.186	0.06	0.798	0.946
16	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376500	1882.5	17.22	17.90	1.169	0.04	1.070	1.251
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	376500	1882.5	14.75	15.30	1.135	0.06	0.555	0.630
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	372000	1860	17.19	17.90	1.178	0.08	0.895	1.054
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	381000	1905	17.13	17.90	1.194	0.07	0.951	1.135
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376500	1882.5	17.17	17.90	1.183	0.08	1.010	1.195
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	376500	1882.5	24.10	25.00	1.230	0.06	0.890	1.095
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	376500	1882.5	24.22	25.00	1.197	0.06	0.770	0.921
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 2	376500	1882.5	22.33	23.00	1.167	0.04	0.501	0.585
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	18mm	Ant 0	DSI 2	376500	1882.5	22.33	23.00	1.167	0.07	0.252	0.294
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	376500	1882.5	24.10	25.00	1.230	0.02	0.462	0.568
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	376500	1882.5	24.22	25.00	1.197	0.02	0.451	0.540
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	376500	1882.5	24.10	25.00	1.230	0.03	0.511	0.629
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	376500	1882.5	16.71	17.70	1.256	0.04	0.987	1.240
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	372000	1860	16.57	17.70	1.297	0.06	0.904	1.173
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	381000	1905	16.61	17.70	1.285	0.12	0.936	1.203
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	376500	1882.5	16.62	17.70	1.282	0.08	0.953	1.222
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	372000	1860	16.50	17.70	1.318	0.06	0.889	1.172
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	381000	1905	16.46	17.70	1.330	-0.07	0.910	1.211
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	376500	1882.5	16.61	17.70	1.285	0.06	0.929	1.194
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	376500	1882.5	16.71	17.70	1.256	0.14	0.933	1.172
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	372000	1860	16.57	17.70	1.297	0.03	0.950	1.232
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	381000	1905	16.61	17.70	1.285	-0.17	0.703	0.904
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	376500	1882.5	16.62	17.70	1.282	-0.05	0.930	1.193
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	372000	1860	16.50	17.70	1.318	-0.04	0.920	1.213
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	381000	1905	16.46	17.70	1.330	0.08	0.910	1.211
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	376500	1882.5	16.61	17.70	1.285	0.06	0.887	1.140
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	376500	1882.5	24.27	25.00	1.183	0.03	0.867	1.026
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	17mm	Ant 2	DSI 0	376500	1882.5	24.27	25.00	1.183	0.02	0.400	0.473
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	18mm	Ant 2	DSI 0	376500	1882.5	24.27	25.00	1.183	0.07	0.321	0.380
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	376500	1882.5	24.21	25.00	1.199	0.08	0.492	0.590
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	376500	1882.5	24.27	25.00	1.183	0.01	0.488	0.577



FCC SAR Test Report

Report No. : FA230405

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)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	21100	2535	13.78	15.20	1.387	-	-	0.08	0.680	0.943
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	20850	2510	13.67	15.20	1.422	-	-	0.02	0.687	0.977
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	20850	2510	11.31	12.60	1.346	-	-	0.02	0.344	0.463
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	21350	2560	13.62	15.20	1.439	-	-	0.09	0.643	0.925
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	21100	2535	13.73	15.20	1.403	-	-	0.01	0.551	0.773
	LTE Band 7	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 0	DSI 1	21100	2535	13.65	15.20	1.429	-	-	0.14	0.549	0.784
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	21100	2535	13.78	15.20	1.387	-	-	0.02	0.125	0.173
	LTE Band 7	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	21100	2535	13.73	15.20	1.403	-	-	0.06	0.106	0.149
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	21100	2535	13.78	15.20	1.387	-	-	0.02	0.806	1.118
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	20850	2510	13.67	15.20	1.422	-	-	0.06	0.868	1.235
	LTE Band 7C	20M	QPSK	1	99	-	Edge 4	0mm	Ant 0	DSI 1	21100+21298	2535+2554.8	14.29	15.20	1.233	-	-	0.06	0.838	1.033
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	20850	2510	11.31	12.60	1.346	-	-	0.02	0.488	0.657
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	20850	2510	11.31	12.60	1.346	-	-	0.01	0.052	0.070
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	21350	2560	13.62	15.20	1.439	-	-	0.13	0.769	1.106
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	21100	2535	13.73	15.20	1.403	-	-	0.15	0.663	0.930
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	20850	2510	13.60	15.20	1.445	-	-	-0.17	0.725	1.048
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	21350	2560	13.61	15.20	1.442	-	-	0.15	0.629	0.907
	LTE Band 7	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	21100	2535	13.65	15.20	1.429	-	-	0.02	0.654	0.934
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	20850	2510	23.18	24.00	1.208	-	-	0.11	0.796	0.961
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 0	DSI 0	20850	2510	23.18	24.00	1.208	-	-	0.05	0.355	0.429
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 0	20850	2510	23.18	24.00	1.208	-	-	0.11	0.312	0.377
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	21350	2560	23.21	24.00	1.199	-	-	0.02	0.751	0.901
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	21100	2535	23.25	24.00	1.189	-	-	0.08	0.733	0.871
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	20850	2510	23.18	24.00	1.208	-	-	0.1	0.724	0.874
	LTE Band 7	20M	QPSK	100	0	-	Edge 1	1mm	Ant 0	DSI 0	21100	2535	22.31	23.00	1.172	-	-	0.05	0.705	0.826
	LTE Band 7	20M	QPSK	1	0	-	Edge 1	14mm	Ant 0	DSI 0	21350	2560	23.21	24.00	1.199	-	-	0.01	0.055	0.066
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	20850	2510	23.18	24.00	1.208	-	-	0.01	0.862	1.041
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 2	20850	2510	20.84	22.20	1.368	-	-	0.02	0.500	0.684
17	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	21100	2535	15.31	16.10	1.199	-	-	0.05	1.030	1.235
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	20850	2510	15.26	16.10	1.213	-	-	-0.11	1.002	1.216
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	21350	2560	15.14	16.10	1.247	-	-	-0.12	0.840	1.048
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	21100	2535	15.23	16.10	1.222	-	-	0.12	0.853	1.042
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	20850	2510	15.08	16.10	1.265	-	-	-0.12	0.725	0.917
	LTE Band 7	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	21350	2560	15.10	16.10	1.259	-	-	-0.13	0.779	0.981
	LTE Band 7	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	21100	2535	15.19	16.10	1.233	-	-	0.07	0.735	0.906
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	21100	2535	15.31	16.10	1.199	-	-	0.1	0.359	0.431
	LTE Band 7	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	21100	2535	15.23	16.10	1.222	-	-	-0.08	0.214	0.261
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	13mm	Ant 2	DSI 0	21100	2535	23.22	24.00	1.197	-	-	0.02	0.985	1.179
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 2	DSI 0	21100	2535	23.22	24.00	1.197	-	-	0.03	0.355	0.425
	LTE Band 7	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 2	DSI 0	21100	2535	23.22	24.00	1.197	-	-	0.06	0.322	0.385
	LTE Band 7	20M	QPSK	1	0	-	Edge 4	15mm	Ant 2	DSI 0	21100	2535	23.22	24.00	1.197	-	-	0.15	0.298	0.357
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	38000	2595	17.61	18.20	1.146	62.9	1.006	0.04	0.879	1.013
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	37850	2580	17.36	18.20	1.213	62.9	1.006	0.15	0.907	1.107
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 3	37850	2580	15.07	15.60	1.130	62.9	1.006	0.03	0.455	0.517
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	38150	2610	17.49	18.20	1.178	62.9	1.006	-0.18	0.826	0.979
	LTE Band 38	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	38000	2595	17.59	18.20	1.151	62.9	1.006	-0.13	0.710	0.822
	LTE Band 38	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	37850	2580	17.43	18.20	1.194	62.9	1.006	0.16	0.738	0.886
	LTE Band 38	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 0	DSI 1	38150	2610	17.51	18.20	1.172	62.9	1.006	0.17	0.685	0.808
	LTE Band 38	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 0	DSI 1	38000	2595	17.59	18.20	1.151	62.9	1.006	-0.18	0.696	0.806
	LTE Band 38	20M	QPSK	1	0	-	Edge 1	0mm	Ant 0	DSI 1	38000	2595	17.61	18.20	1.146	62.9	1.006	-0.03	0.193	0.222
	LTE Band 38	20M	QPSK	50	0	-	Edge 1	0mm	Ant 0	DSI 1	38000	2595	17.59	18.20	1.151	62.9	1.006	0.04	0.151	0.175



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	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	38000	2595	17.61	18.20	1.146	62.9	1.006	-0.11	0.970	1.118
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	37850	2580	17.36	18.20	1.213	62.9	1.006	-0.07	0.988	1.206
18	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	38150	2610	17.49	18.20	1.178	62.9	1.006	-0.03	1.030	1.220
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 3	38150	2610	15.10	15.60	1.122	62.9	1.006	0.01	0.501	0.566
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	15mm	Ant 0	DSI 3	38150	2610	15.10	15.60	1.122	62.9	1.006	0.04	0.041	0.046
	LTE Band 38	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	38000	2595	17.59	18.20	1.151	62.9	1.006	-0.13	0.882	1.021
	LTE Band 38	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	37850	2580	17.43	18.20	1.194	62.9	1.006	0.11	0.903	1.085
	LTE Band 38	20M	QPSK	50	0	-	Edge 4	0mm	Ant 0	DSI 1	38150	2610	17.51	18.20	1.172	62.9	1.006	0.02	0.858	1.012
	LTE Band 38	20M	QPSK	100	0	-	Edge 4	0mm	Ant 0	DSI 1	38000	2595	17.59	18.20	1.151	62.9	1.006	0.13	0.787	0.911
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	14mm	Ant 0	DSI 0	37850	2580	23.26	24.00	1.186	62.9	1.006	0.02	0.393	0.469
	LTE Band 38	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 0	DSI 0	37850	2580	23.26	24.00	1.186	62.9	1.006	0.02	0.288	0.344
	LTE Band 38	20M	QPSK	1	0	-	Edge 1	1mm	Ant 0	DSI 0	37850	2580	23.26	24.00	1.186	62.9	1.006	0.06	0.527	0.629
	LTE Band 38	20M	QPSK	1	0	-	Edge 4	18mm	Ant 0	DSI 0	38150	2610	23.28	24.00	1.180	62.9	1.006	0.07	0.262	0.311
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	507000	2535	14.55	15.60	1.274	-	-	-0.11	0.756	0.963
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 3	507000	2535	12.06	13.00	1.242	-	-	-0.11	0.368	0.457
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	507000	2535	14.42	15.60	1.312	-	-	-0.12	0.657	0.862
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 0	DSI 1	507000	2535	14.39	15.60	1.321	-	-	0.03	0.493	0.651
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	507000	2535	14.55	15.60	1.274	-	-	-0.16	0.111	0.141
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 1	0mm	Ant 0	DSI 1	507000	2535	14.42	15.60	1.312	-	-	0.05	0.127	0.167
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	507000	2535	14.55	15.60	1.274	-	-	0.02	0.967	1.231
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 3	507000	2535	12.06	13.00	1.242	-	-	0.01	0.525	0.652
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	507000	2535	14.42	15.60	1.312	-	-	0.18	0.835	1.096
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	507000	2535	14.39	15.60	1.321	-	-	0.15	0.553	0.731
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 0	507000	2535	23.53	24.00	1.114	-	-	0.04	0.855	0.953
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	14mm	Ant 0	DSI 2	507000	2535	21.19	22.50	1.352	-	-	0.04	0.506	0.684
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	18mm	Ant 0	DSI 2	507000	2535	21.19	22.50	1.352	-	-	0.01	0.285	0.385
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	18mm	Ant 0	DSI 0	507000	2535	23.53	24.00	1.114	-	-	0.02	0.663	0.739
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	507000	2535	23.50	24.00	1.122	-	-	0.02	0.503	0.564
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 1	1mm	Ant 0	DSI 0	507000	2535	23.53	24.00	1.114	-	-	0.04	0.453	0.505
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	507000	2535	15.33	16.30	1.250	-	-	0.06	0.973	1.217
19	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	507000	2535	15.25	16.30	1.274	-	-	0.03	0.977	1.244
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Face	0mm	Ant 2	DSI 1	507000	2535	15.15	16.30	1.303	-	-	-0.05	0.943	1.229
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	507000	2535	15.33	16.30	1.250	-	-	-0.18	0.244	0.305
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	0mm	Ant 2	DSI 1	507000	2535	15.25	16.30	1.274	-	-	0.03	0.212	0.270
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	507000	2535	22.96	24.00	1.271	-	-	0.05	0.918	1.166
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	18mm	Ant 2	DSI 0	507000	2535	22.96	24.00	1.271	-	-	0.05	0.350	0.445
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Face	18mm	Ant 2	DSI 0	507000	2535	22.96	24.00	1.271	-	-	0.05	0.300	0.381
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Face	13mm	Ant 2	DSI 0	507000	2535	23.01	24.00	1.256	-	-	0.04	0.906	1.138
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	507000	2535	22.96	24.00	1.271	-	-	0.16	0.362	0.460
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Edge 4	15mm	Ant 2	DSI 0	507000	2535	23.01	24.00	1.256	-	-	0.13	0.357	0.448
20	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	40620	2593	17.88	18.80	1.236	62.9	1.006	0.08	1.010	1.256
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 2	DSI 1	40620+40818	2593+2612.8	17.16	18.80	1.459	62.9	1.006	0.05	0.843	1.237
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 2	DSI 1	39790+39988	2510+2529.8	17.13	18.80	1.469	62.9	1.006	0.09	0.820	1.212
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 2	DSI 1	40185+40383	2549.5+2569.3	16.98	18.80	1.521	62.9	1.006	0.01	0.804	1.230
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 2	DSI 1	41055+41253	2636.5+2656.3	17.11	18.80	1.476	62.9	1.006	0.05	0.810	1.202
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	41490+41292	2680+2660.2	16.99	18.80	1.517	62.9	1.006	0.04	0.811	1.238
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	39750	2506	17.75	18.80	1.274	62.9	1.006	-0.15	0.965	1.236
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	40185	2549.5	17.83	18.80	1.250	62.9	1.006	-0.15	0.945	1.189
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	41055	2636.5	17.70	18.80	1.288	62.9	1.006	-0.08	0.829	1.074
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 2	DSI 1	41490	2680	17.77	18.80	1.268	62.9	1.006	0.02	0.799	1.019
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	40620	2593	17.73	18.80	1.279	62.9	1.006	0.02	0.763	0.982
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	39750	2506	17.65	18.80	1.303	62.9	1.006	-0.13	0.844	1.106
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	40185	2549.5	17.56	18.80	1.330	62.9	1.006	-0.04	0.769	1.029
	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	41055	2636.5	17.58	18.80	1.324	62.9	1.006	0.09	0.665	0.886



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	LTE Band 41	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 2	DSI 1	41490	2680	17.66	18.80	1.300	62.9	1.006	-0.1	0.648	0.848
	LTE Band 41	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 2	DSI 1	40620	2593	17.70	18.80	1.288	62.9	1.006	-0.1	0.879	1.139
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	0mm	Ant 2	DSI 1	40620	2593	17.88	18.80	1.236	62.9	1.006	0.19	0.265	0.329
	LTE Band 41	20M	QPSK	50	0	-	Edge 4	0mm	Ant 2	DSI 1	40620	2593	17.73	18.80	1.279	62.9	1.006	-0.19	0.218	0.281
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	13mm	Ant 2	DSI 0	40620	2593	23.49	25.00	1.416	62.9	1.006	0.02	0.699	0.996
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	17mm	Ant 2	DSI 0	40620	2593	23.49	25.00	1.416	62.9	1.006	0.02	0.295	0.420
	LTE Band 41	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 2	DSI 0	40620	2593	23.49	25.00	1.416	62.9	1.006	0.04	0.263	0.375
	LTE Band 41	20M	QPSK	1	0	-	Edge 4	15mm	Ant 2	DSI 0	40620	2593	23.49	25.00	1.416	62.9	1.006	0.08	0.292	0.416
21	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 2	DSI 1	518598	2592.99	14.29	16.10	1.517	-	-	0.05	0.830	1.259
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 2	DSI 1	518598	2592.99	14.23	16.10	1.538	-	-	0.02	0.810	1.246
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 2	DSI 1	518598	2592.99	14.20	16.10	1.549	-	-	0.08	0.709	1.098
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 2	DSI 1	518598	2592.99	14.29	16.10	1.517	-	-	0.16	0.261	0.396
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 2	DSI 1	518598	2592.99	14.23	16.10	1.538	-	-	0.1	0.216	0.332
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 2	DSI 0	518598	2592.99	22.81	24.50	1.476	-	-	0.16	0.080	0.118
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 2	DSI 0	518598	2592.99	22.71	24.50	1.510	-	-	0.08	0.005	0.008
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	13mm	Ant 2	DSI 0	518598	2592.99	22.81	24.50	1.476	-	-	0.05	0.835	1.232
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	17mm	Ant 2	DSI 0	518598	2592.99	22.81	24.50	1.476	-	-	0.03	0.320	0.472
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	18mm	Ant 2	DSI 0	518598	2592.99	22.81	24.50	1.476	-	-	0.07	0.244	0.360
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	15mm	Ant 2	DSI 0	518598	2592.99	22.81	24.50	1.476	-	-	0.02	0.299	0.441
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	518598	2592.99	15.71	16.90	1.315	-	-	0.04	0.953	1.253
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	518598	2592.99	15.64	16.90	1.337	-	-	0.01	0.830	1.109
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	518598	2592.99	15.57	16.90	1.358	-	-	0.02	0.882	1.198
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	518598	2592.99	15.71	16.90	1.315	-	-	0.04	0.349	0.459
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	518598	2592.99	15.64	16.90	1.337	-	-	-0.04	0.336	0.449
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	19.35	20.10	1.189	-	-	0.02	1.050	1.248
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	19.30	20.10	1.202	-	-	-0.04	0.883	1.062
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	19.27	20.10	1.211	-	-	0.03	0.968	1.172
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	518598	2592.99	19.35	20.10	1.189	-	-	0.06	0.053	0.063
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	518598	2592.99	19.30	20.10	1.202	-	-	0.06	0.048	0.058
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	518598	2592.99	19.35	20.10	1.189	-	-	0.19	0.379	0.450
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	518598	2592.99	19.30	20.10	1.202	-	-	0.07	0.333	0.400
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	518598	2592.99	20.04	21.00	1.247	-	-	0.03	0.613	0.765
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 2	518598	2592.99	19.36	20.50	1.300	-	-	0.02	0.558	0.725
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	518598	2592.99	19.91	21.00	1.285	-	-	0.09	0.552	0.709
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	518598	2592.99	20.04	21.00	1.247	-	-	-0.09	0.432	0.539
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	518598	2592.99	19.91	21.00	1.285	-	-	-0.12	0.399	0.513
3500-3900MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	55830	3609	17.81	18.60	1.199	62.9	1.006	0.05	0.850	1.026
22	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	55340	3560	17.77	18.60	1.211	62.9	1.006	0.07	1.030	1.254
	LTE Band 48C	20M	QPSK	1	99	-	Bottom Face	0mm	Ant 3	DSI 1	55830+ 56028	3609+ 3628.8	17.66	18.60	1.242	62.9	1.006	0.03	0.923	1.153
	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	56150	3641	17.54	18.60	1.276	62.9	1.006	0.02	0.784	1.007
	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	56640	3690	17.49	18.60	1.291	62.9	1.006	0.04	0.747	0.970
	LTE Band 48	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 3	DSI 1	55830	3609	17.80	18.60	1.202	62.9	1.006	0.06	0.692	0.837
	LTE Band 48	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 3	DSI 1	55340	3560	17.61	18.60	1.256	62.9	1.006	0.13	0.835	1.055
	LTE Band 48	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 3	DSI 1	56150	3641	17.76	18.60	1.213	62.9	1.006	0.07	0.629	0.768
	LTE Band 48	20M	QPSK	50	0	-	Bottom Face	0mm	Ant 3	DSI 1	56640	3690	17.63	18.60	1.250	62.9	1.006	0.06	0.724	0.911
	LTE Band 48	20M	QPSK	100	0	-	Bottom Face	0mm	Ant 3	DSI 1	55830	3609	17.73	18.60	1.222	62.9	1.006	-0.02	0.657	0.808
	LTE Band 48	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	55830	3609	17.81	18.60	1.199	62.9	1.006	0.12	0.687	0.829
	LTE Band 48	20M	QPSK	1	0	-	Edge 4	15mm	Ant 3	DSI 1	55830	3609	17.81	18.60	1.199	62.9	1.006	0.05	0.073	0.088
	LTE Band 48	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	55340	3560	17.77	18.60	1.211	62.9	1.006	0.05	0.632	0.770
	LTE Band 48	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	56150	3641	17.54	18.60	1.276	62.9	1.006	0.04	0.579	0.743
	LTE Band 48	20M	QPSK	1	0	-	Edge 4	0mm	Ant 3	DSI 1	56640	3690	17.49	18.60	1.291	62.9	1.006	0.04	0.637	0.827
	LTE Band 48	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	55830	3609	17.80	18.60	1.202	62.9	1.006	-0.08	0.564	0.682
	LTE Band 48	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	55340	3560	17.61	18.60	1.256	62.9	1.006	0.02	0.535	0.676
	LTE Band 48	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	56150	3641	17.76	18.60	1.213	62.9	1.006	0.07	0.541	0.660
	LTE Band 48	20M	QPSK	50	0	-	Edge 4	0mm	Ant 3	DSI 1	56640	3690	17.63	18.60	1.250	62.9	1.006	0.01	0.528	0.664



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	LTE Band 48	20M	QPSK	100	0	-	Edge 4	0mm	Ant 3	DSI 1	55830	3609	17.73	18.60	1.222	62.9	1.006	0.01	0.481	0.591
	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	14mm	Ant 3	DSI 0	55340	3560	23.70	24.50	1.202	62.9	1.006	0.05	0.476	0.576
	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	18mm	Ant 3	DSI 0	55340	3560	23.70	24.50	1.202	62.9	1.006	0.06	0.215	0.260
	LTE Band 48	20M	QPSK	1	0	-	Edge 4	18mm	Ant 3	DSI 0	55830	3609	23.86	24.50	1.159	62.9	1.006	0.03	0.312	0.364
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	641666	3624.99	15.64	16.50	1.219	-	-	0.01	0.936	1.141
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	638000	3570	15.51	16.50	1.256	-	-	0.03	0.886	1.113
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	645332	3679.98	15.58	16.50	1.236	-	-	0.04	0.912	1.127
23	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	641666	3624.99	15.62	16.50	1.225	-	-	0.02	1.010	1.237
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	638000	3570	15.58	16.50	1.236	-	-	0.05	0.993	1.227
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	645332	3679.98	15.60	16.50	1.230	-	-	0.04	0.971	1.195
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	641666	3624.99	15.44	16.50	1.276	-	-	0.07	0.914	1.167
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	641666	3624.99	15.64	16.50	1.219	-	-	-0.17	0.854	1.041
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	638000	3570	15.51	16.50	1.256	-	-	0.03	0.774	0.972
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	645332	3679.98	15.58	16.50	1.236	-	-	0.07	0.756	0.934
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	641666	3624.99	15.62	16.50	1.225	-	-	-0.14	0.937	1.147
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	15mm	Ant 3	DSI 1	641666	3624.99	15.62	16.50	1.225	-	-	0.02	0.129	0.158
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	638000	3570	15.58	16.50	1.236	-	-	0.06	0.812	1.004
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	645332	3679.98	15.60	16.50	1.230	-	-	0.07	0.805	0.990
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	641666	3624.99	15.44	16.50	1.276	-	-	0.02	0.758	0.968
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	641666	3624.99	21.93	23.00	1.279	-	-	0.05	0.584	0.747
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	641666	3624.99	21.93	23.00	1.279	-	-	0.02	0.344	0.440
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Face	18mm	Ant 3	DSI 0	641666	3624.99	21.93	23.00	1.279	-	-	0.01	0.296	0.379
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	641666	3624.99	22.26	23.00	1.186	-	-	0.08	0.475	0.563
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	641666	3624.99	21.93	23.00	1.279	-	-	0.09	0.460	0.589
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	641666	3624.99	22.26	23.00	1.186	-	-	0.05	0.352	0.417
	Part270_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	656000	3840	16.68	17.40	1.180	-	-	0.06	0.826	0.975
	Part270_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	656000	3840	16.66	17.40	1.186	-	-	-0.15	0.975	1.156
	Part270_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	656000	3840	16.50	17.40	1.230	-	-	-0.05	0.949	1.168
	Part270_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	16.68	17.40	1.180	-	-	0.02	0.761	0.898
	Part270_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	16.66	17.40	1.186	-	-	0.03	1.060	1.257
	Part270_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	16.50	17.40	1.230	-	-	-0.17	0.891	1.096
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	633334	3500.01	16.88	17.40	1.127	-	-	0.12	0.902	1.017
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	633334	3500.01	16.81	17.40	1.146	-	-	0.02	0.887	1.016
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 1	DSI 0	633334	3500.01	16.75	17.40	1.161	-	-	-0.19	0.842	0.978
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	633334	3500.01	16.88	17.40	1.127	-	-	0.01	0.789	0.889
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	633334	3500.01	16.81	17.40	1.146	-	-	0.04	0.925	1.060
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	633334	3500.01	16.75	17.40	1.161	-	-	0.11	0.789	0.916
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	656000	3840	15.68	16.40	1.180	-	-	0.02	0.755	0.891
	Part270_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	656000	3840	15.60	16.40	1.202	-	-	0.07	0.693	0.833
	Part270_FR1 n77-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	656000	3840	15.52	16.40	1.225	-	-	-0.03	0.672	0.823
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	656000	3840	15.68	16.40	1.180	-	-	-0.04	0.432	0.510
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	15mm	Ant 3	DSI 1	656000	3840	15.68	16.40	1.180	-	-	0.04	0.057	0.067
	Part270_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	656000	3840	15.60	16.40	1.202	-	-	-0.12	0.384	0.462
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	656000	3840	25.10	26.50	1.380	-	-	0.08	0.832	1.148
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	656000	3840	25.10	26.50	1.380	-	-	0.03	0.350	0.483
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	18mm	Ant 3	DSI 0	656000	3840	25.10	26.50	1.380	-	-	0.02	0.260	0.359
	Part270_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	656000	3840	25.07	26.50	1.390	-	-	0.01	0.814	1.131
	Part270_FR1 n77-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	656000	3840	24.92	26.50	1.439	-	-	0.06	0.787	1.132
	Part270_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	656000	3840	25.10	26.50	1.380	-	-	0.07	0.545	0.752
	Part270_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	656000	3840	25.07	26.50	1.390	-	-	0.08	0.512	0.712
	Part270_FR1 n77-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	656000	3840	24.92	26.50	1.439	-	-	0.02	0.499	0.718
	Part27Q_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	633334	3500.01	15.39	16.40	1.262	-	-	0.02	0.675	0.852
	Part27Q_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	633334	3500.01	15.36	16.40	1.271	-	-	0.01	0.977	1.241
	Part27Q_FR1 n77-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 3	DSI 1	633334	3500.01	15.17	16.40	1.327	-	-	0.07	0.702	0.932
	Part27Q_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	633334	3500.01	15.39	16.40	1.262	-	-	-0.17	0.452	0.570
	Part27Q_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	15mm	Ant 3	DSI 1	633334	3500.01	15.39	16.40	1.262	-	-	0.11	0.067	0.085



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	Part27Q_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 4	0mm	Ant 3	DSI 1	633334	3500.01	15.36	16.40	1.271	-	-	0.04	0.440	0.559
	Part27Q_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	633334	3500.01	24.88	26.50	1.452	-	-	0.04	0.844	1.226
	Part27Q_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	17mm	Ant 3	DSI 0	633334	3500.01	24.88	26.50	1.452	-	-	0.09	0.324	0.470
	Part27Q_FR1 n77-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	18mm	Ant 3	DSI 0	633334	3500.01	24.88	26.50	1.452	-	-	0.09	0.256	0.372
	Part27Q_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	14mm	Ant 3	DSI 0	633334	3500.01	24.90	26.50	1.445	-	-	0.04	0.810	1.171
	Part27Q_FR1 n77-HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	633334	3500.01	24.83	26.50	1.469	-	-	0.13	0.361	0.530
	Part27Q_FR1 n77-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 4	18mm	Ant 3	DSI 0	633334	3500.01	24.90	26.50	1.445	-	-	0.01	0.355	0.513
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	656000	3840	17.99	18.90	1.233	-	-	0.12	0.802	0.989
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	656000	3840	17.95	18.90	1.245	-	-	-0.08	0.842	1.048
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	656000	3840	17.90	18.90	1.259	-	-	0.08	0.819	1.031
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	656000	3840	17.99	18.90	1.233	-	-	0.16	0.127	0.157
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	656000	3840	17.95	18.90	1.245	-	-	-0.03	0.194	0.241
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	656000	3840	17.99	18.90	1.233	-	-	0.09	0.719	0.887
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	656000	3840	17.95	18.90	1.245	-	-	0.05	0.998	1.242
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	656000	3840	17.90	18.90	1.259	-	-	-0.07	0.946	1.191
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	633334	3500.01	17.61	18.90	1.346	-	-	-0.16	0.456	0.614
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	633334	3500.01	17.50	18.90	1.380	-	-	-0.18	0.556	0.767
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	633334	3500.01	17.61	18.90	1.346	-	-	0.07	0.020	0.027
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 4	DSI 0	633334	3500.01	17.50	18.90	1.380	-	-	-0.17	0.027	0.037
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	633334	3500.01	17.61	18.90	1.346	-	-	0.01	0.605	0.814
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	633334	3500.01	17.50	18.90	1.380	-	-	0.03	0.490	0.676
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 4	DSI 0	633334	3500.01	17.43	18.90	1.403	-	-	0.16	0.511	0.717
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	656000	3840	19.01	19.80	1.199	-	-	0.13	0.849	1.018
24	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	656000	3840	18.90	19.80	1.230	-	-	0.04	1.040	1.279
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 2	656000	3840	15.98	17.20	1.324	-	-	0.03	0.519	0.687
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	656000	3840	18.84	19.80	1.247	-	-	0.07	0.643	0.802
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	656000	3840	19.01	19.80	1.199	-	-	0.05	0.698	0.837
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	656000	3840	18.90	19.80	1.230	-	-	0.06	0.639	0.786
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	656000	3840	18.84	19.80	1.247	-	-	-0.03	0.540	0.674
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	633334	3500.01	19.06	19.80	1.186	-	-	0.04	0.736	0.873
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	633334	3500.01	19.04	19.80	1.191	-	-	0.01	0.842	1.003
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 2	633334	3500.01	16.11	17.20	1.285	-	-	0.01	0.470	0.604
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Face	0mm	Ant 5	DSI 0	633334	3500.01	18.93	19.80	1.222	-	-	0.14	0.743	0.908
	Part27Q_FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	19.06	19.80	1.186	-	-	0.03	0.247	0.293
	Part27Q_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	19.04	19.80	1.191	-	-	0.02	0.352	0.419
	Part27Q_FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Edge 3	0mm	Ant 5	DSI 0	633334	3500.01	18.93	19.80	1.222	-	-	0.19	0.219	0.268

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN&BT/NFC																
25	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Sensor On	6	2437	17.52	19.00	1.406	98.96	1.011	-0.04	0.885	1.258
	WLAN2.4GHz	802.11g 6Mbps	Bottom Face	0mm	Ant 6	Sensor On	1	2412	17.49	19.00	1.416	95.30	1.049	0.05	0.800	1.188
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Sensor On Simultaneous	6	2437	15.01	16.50	1.409	98.96	1.011	-0.04	0.477	0.680
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	13mm	Ant 6	Sensor On Simultaneous	6	2437	15.01	16.50	1.409	98.96	1.011	0.06	0.021	0.030
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 6	Sensor On	11	2462	17.36	19.00	1.459	98.96	1.011	0.02	0.525	0.774
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	0mm	Ant 6	Sensor On	6	2437	17.52	19.00	1.406	98.96	1.011	0.06	0.235	0.334
	WLAN2.4GHz	802.11b 1Mbps	Edge 3	0mm	Ant 6	Sensor Off	6	2437	20.55	22.00	1.396	98.96	1.011	0.04	0.470	0.664
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	18mm	Ant 6	Sensor Off	6	2437	20.55	22.00	1.396	98.96	1.011	0.08	0.067	0.095
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	15mm	Ant 6	Sensor Off	6	2437	20.55	22.00	1.396	98.96	1.011	0.12	0.040	0.056
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Sensor On	1	2412	18.17	19.50	1.358	99.31	1.007	0.01	0.912	1.247
	WLAN2.4GHz	802.11g 6Mbps	Bottom Face	0mm	Ant 7	Sensor On	1	2412	18.06	19.50	1.393	95.34	1.049	0.04	0.803	1.174
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Sensor On Simultaneous	1	2412	15.66	17.00	1.361	99.31	1.007	0.01	0.501	0.687
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	13mm	Ant 7	Sensor On Simultaneous	1	2412	15.66	17.00	1.361	99.31	1.007	0.04	0.044	0.060
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Sensor On	6	2437	17.85	19.50	1.462	99.31	1.007	-0.03	0.778	1.146
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	0mm	Ant 7	Sensor Off	1	2412	21.19	22.50	1.352	99.31	1.007	0.06	0.311	0.423



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	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 7	Sensor On	1	2412	18.17	19.50	1.358	99.31	1.007	0.17	0.362	0.495
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	1mm	Ant 7	Sensor On	1	2412	18.17	19.50	1.358	99.31	1.007	0.17	0.322	0.440
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	17mm	Ant 7	Sensor Off	1	2412	21.19	22.50	1.352	99.31	1.007	0.04	0.149	0.203
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	14mm	Ant 7	Sensor Off	1	2412	21.19	22.50	1.352	99.31	1.007	0.09	0.235	0.320
26	Bluetooth	1Mbps	Bottom Face	0mm	Ant 6	Full power	39	2480	4.92	5.50	1.143	60.65	1.373	0.02	0.077	0.121
	Bluetooth	1Mbps	Edge 4	0mm	Ant 6	Full power	39	2480	4.92	5.50	1.143	60.65	1.373	0.06	0.038	0.060
	Bluetooth	1Mbps	Edge 3	0mm	Ant 6	Full power	39	2480	4.92	5.50	1.143	60.65	1.373	0.04	0.031	0.049
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On	58	5290	12.16	13.50	1.361	92.05	1.086	-0.07	0.845	1.249
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 6	Sensor On	54	5270	12.09	13.50	1.384	87.07	1.149	0.03	0.720	1.145
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On Simultaneous	58	5290	9.64	11.00	1.368	92.05	1.086	-0.07	0.454	0.674
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On	58	5290	12.16	13.50	1.361	92.05	1.086	-0.04	0.514	0.760
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On Simultaneous	58	5290	9.64	11.00	1.368	92.05	1.086	-0.04	0.313	0.465
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 3	0mm	Ant 6	Sensor Off	54	5270	19.56	21.00	1.393	87.07	1.149	0.09	0.362	0.579
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	18mm	Ant 6	Sensor Off	54	5270	19.56	21.00	1.393	87.07	1.149	0.07	0.293	0.469
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	15mm	Ant 6	Sensor Off	54	5270	19.56	21.00	1.393	87.07	1.149	-0.12	0.221	0.354
28	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7	Sensor On	54	5270	19.76	21.50	1.492	86.79	1.152	0.01	0.731	1.257
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7	Sensor On	62	5310	17.84	19.50	1.466	86.79	1.152	0.09	0.539	0.910
	WLAN5.3GHz	802.11n-HT20 MCS0	Bottom Face	0mm	Ant 7	Sensor On	64	5320	19.66	21.00	1.360	93.43	1.070	0.04	0.656	0.955
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On Simultaneous	58	5290	17.18	18.50	1.355	92.00	1.087	0.01	0.433	0.638
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Sensor On	54	5270	19.76	21.50	1.492	86.79	1.152	0.12	0.684	1.176
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Sensor On	62	5310	17.84	19.50	1.466	86.79	1.152	0.05	0.497	0.839
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On Simultaneous	58	5290	17.18	18.50	1.355	92.00	1.087	0.12	0.465	0.685
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 7	Sensor Off	54	5270	19.76	21.50	1.492	86.79	1.152	-0.06	0.076	0.131
	WLAN5.3GHz	802.11n-HT40 MCS0	Bottom Face	17mm	Ant 7	Sensor Off	54	5270	19.76	21.50	1.492	86.79	1.152	-0.06	0.070	0.120
	WLAN5.3GHz	802.11n-HT40 MCS0	Edge 1	14mm	Ant 7	Sensor Off	54	5270	19.76	21.50	1.492	86.79	1.152	-0.07	0.113	0.194
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On	122	5610	10.63	12.00	1.371	92.05	1.086	-0.09	0.833	1.240
	WLAN5.5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 6	Sensor On	126	5630	10.75	12.00	1.334	87.07	1.149	0.05	0.756	1.158
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On Simultaneous	122	5610	8.12	9.50	1.374	92.05	1.086	-0.09	0.458	0.683
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	13mm	Ant 6	Sensor On Simultaneous	122	5610	8.12	9.50	1.374	92.05	1.086	0.04	0.045	0.067
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On	138	5690	10.57	12.00	1.390	92.05	1.086	-0.19	0.782	1.180
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On	122	5610	10.63	12.00	1.371	92.05	1.086	-0.12	0.539	0.802
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On Simultaneous	122	5610	8.12	9.50	1.374	92.05	1.086	-0.12	0.344	0.513
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	14mm	Ant 6	Sensor On Simultaneous	122	5610	8.12	9.50	1.374	92.05	1.086	-0.12	0.032	0.048
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On	138	5690	10.57	12.00	1.390	92.05	1.086	0.16	0.522	0.788
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 3	0mm	Ant 6	Sensor Off	126	5630	19.83	21.50	1.469	87.07	1.149	0.03	0.354	0.597
	WLAN5.5GHz	802.11n-HT40 MCS0	Bottom Face	18mm	Ant 6	Sensor Off	126	5630	19.83	21.50	1.469	87.07	1.149	-0.15	0.298	0.503
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 4	15mm	Ant 6	Sensor Off	126	5630	19.83	21.50	1.469	87.07	1.149	0.02	0.304	0.513
29	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On	138	5690	18.17	19.50	1.358	92.00	1.087	0.04	0.849	1.254
	WLAN5.5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7	Sensor On	102	5510	18.13	19.50	1.370	86.79	1.152	0.05	0.736	1.162
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On Simultaneous	138	5690	15.62	17.00	1.374	92.00	1.087	0.04	0.451	0.674
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	13mm	Ant 7	Sensor On Simultaneous	138	5690	15.62	17.00	1.374	92.00	1.087	0.07	0.051	0.076
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On	122	5610	18.04	19.50	1.400	92.00	1.087	-0.15	0.714	1.086
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On	138	5690	18.17	19.50	1.358	92.00	1.087	0.02	0.623	0.920
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On Simultaneous	138	5690	15.62	17.00	1.374	92.00	1.087	0.02	0.311	0.465
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On	122	5610	18.04	19.50	1.400	92.00	1.087	-0.17	0.495	0.753
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 4	0mm	Ant 7	Sensor Off	134	5670	19.99	21.50	1.415	86.79	1.152	-0.16	0.098	0.160
	WLAN5.5GHz	802.11n-HT40 MCS0	Bottom Face	17mm	Ant 7	Sensor Off	134	5670	19.99	21.50	1.415	86.79	1.152	0.06	0.380	0.620
	WLAN5.5GHz	802.11n-HT40 MCS0	Bottom Face	18mm	Ant 7	Sensor Off	134	5670	19.99	21.50	1.415	86.79	1.152	0.06	0.324	0.528
	WLAN5.5GHz	802.11n-HT40 MCS0	Edge 1	14mm	Ant 7	Sensor Off	134	5670	19.99	21.50	1.415	86.79	1.152	-0.03	0.450	0.734
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On	155	5775	11.06	12.50	1.393	92.05	1.086	0.01	0.830	1.256
	WLAN5.8GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 6	Sensor On	151	5755	10.87	12.50	1.455	87.07	1.149	0.06	0.714	1.194
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On Simultaneous	155	5775	8.57	10.00	1.390	92.05	1.086	0.01	0.449	0.678
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On	155	5775	11.06	12.50	1.393	92.05	1.086	0.06	0.647	0.979
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 4	0mm	Ant 6	Sensor On Simultaneous	155	5775	8.57	10.00	1.390	92.05	1.086	0.06	0.322	0.486
	WLAN5.8GHz	802.11ax-HE20 MCS0	Edge 3	0mm	Ant 6	Sensor Off	165	5825	21.21	23.00	1.510	97.54	1.025	0.15	0.333	0.515
	WLAN5.8GHz	802.11ax-HE20 MCS0	Bottom Face	18mm	Ant 6	Sensor Off	165	5825	21.21	23.00	1.510	97.54	1.025	-0.18	0.321	0.497



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	WLAN5.8GHz	802.11ax-HE20 MCS0	Edge 4	15mm	Ant 6	Sensor Off	165	5825	21.21	23.00	1.510	97.54	1.025	0.12	0.299	0.463
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On	155	5775	17.63	19.00	1.371	92.00	1.087	-0.01	0.788	1.174
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On Simultaneous	155	5775	15.12	16.50	1.374	92.00	1.087	-0.01	0.377	0.563
30	WLAN5.8GHz	802.11n-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On	155	5775	17.63	19.00	1.371	92.00	1.087	0.04	0.843	1.256
	WLAN5.8GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 7	Sensor On	151	5755	17.47	19.00	1.422	86.79	1.152	0.06	0.722	1.183
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On Simultaneous	155	5775	15.12	16.50	1.374	92.00	1.087	0.04	0.452	0.675
	WLAN5.8GHz	802.11ax-HE20 MCS0	Edge 4	0mm	Ant 7	Sensor Off	165	5825	21.38	23.00	1.452	97.64	1.024	0.09	0.135	0.201
	WLAN5.8GHz	802.11ax-HE20 MCS0	Bottom Face	17mm	Ant 7	Sensor Off	165	5825	21.38	23.00	1.452	97.64	1.024	0.06	0.311	0.462
	WLAN5.8GHz	802.11ax-HE20 MCS0	Edge 1	14mm	Ant 7	Sensor Off	165	5825	21.38	23.00	1.452	97.64	1.024	0.05	0.288	0.428

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Freq. (MHz)	Power Drift (dB)	Measured 1g SAR (W/kg)
27	NFC	ASK	Bottom Face	0mm	Ant 9	13.56	0.01	0.053
	NFC	ASK	Edge 1	0mm	Ant 9	13.56	0.03	0.000
	NFC	ASK	Edge 2	0mm	Ant 9	13.56	0.02	0.000
	NFC	ASK	Edge 3	0mm	Ant 9	13.56	0.04	0.000
	NFC	ASK	Edge 4	0mm	Ant 9	13.56	0.05	0.000

16.2 Repeated SAR Measurement

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 12	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	23095	707.5	23.99	24.50	1.125	-	-	0.05	1.000	1	1.125
2nd	LTE Band 12	10M	QPSK	1	0	-	Edge 4	0mm	Ant 0	DSI 1	23095	707.5	23.99	24.50	1.125	-	-	0.07	0.985	1.015	1.108
1st	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.27	22.10	1.211	-	-	0.03	1.020	1	1.235
2nd	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	167300	836.5	21.27	22.10	1.211	-	-	0.08	0.988	1.032	1.196
1st	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	19.13	19.50	1.089	-	-	0.03	1.130	1	1.230
2nd	LTE Band 66	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 0	DSI 1	132322	1745	19.13	19.50	1.089	-	-	0.04	1.050	1.076	1.143
1st	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376500	1882.5	17.22	17.90	1.169	-	-	0.04	1.070	1	1.251
2nd	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Edge 4	0mm	Ant 0	DSI 1	376500	1882.5	17.22	17.90	1.169	-	-	0.09	0.985	1.086	1.152
1st	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	19.35	20.10	1.189	-	-	0.02	1.050	1	1.248
2nd	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Face	0mm	Ant 4	DSI 0	518598	2592.99	19.35	20.10	1.189	-	-	0.05	0.978	1.074	1.162
1st	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	55340	3560	17.77	18.60	1.211	62.9	1.006	0.07	1.030	1	1.254
2nd	LTE Band 48	20M	QPSK	1	0	-	Bottom Face	0mm	Ant 3	DSI 1	55340	3560	17.77	18.60	1.211	62.9	1.006	0.02	0.961	1.072	1.170
1st	Part270_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	16.66	17.40	1.186	-	-	0.03	1.060	1	1.257
2nd	Part270_FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Edge 2	0mm	Ant 1	DSI 0	656000	3840	16.66	17.40	1.186	-	-	0.08	0.980	1.082	1.162
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Sensor On	1	2412	18.17	19.50	1.358	99.31	1.007	0.01	0.912	1	1.247
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Sensor On	1	2412	18.17	19.50	1.358	99.31	1.007	0.07	0.875	1.042	1.197
1st	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On	58	5290	12.16	13.50	1.361	92.05	1.086	-0.07	0.845	1	1.249
2nd	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 6	Sensor On	58	5290	12.16	13.50	1.361	92.05	1.086	0.02	0.811	1.042	1.199
1st	WLAN5.2GHz	-	-	-	-	802.11a 6Mbps	Bottom Face	0mm	Ant 7	Sensor On	36	5180	20.55	21.50	1.245	93.81	1.066	0.01	0.839	1	1.114
2nd	WLAN5.2GHz	-	-	-	-	802.11a 6Mbps	Bottom Face	0mm	Ant 7	Sensor On	36	5180	20.55	21.50	1.245	93.81	1.066	0.07	0.809	1.037	1.074
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On	138	5690	18.17	19.50	1.358	92.00	1.087	0.04	0.849	1	1.254
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7	Sensor On	138	5690	18.17	19.50	1.358	92.00	1.087	0.07	0.827	1.027	1.221
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On	155	5775	17.63	19.00	1.371	92.00	1.087	0.04	0.843	1	1.256
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7	Sensor On	155	5775	17.63	19.00	1.371	92.00	1.087	0.04	0.830	1.016	1.237

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.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

17. Simultaneous Transmission Analysis

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

General Note:

1. WWAN above includes 5G NR bands.
2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
5. According to the EUT character, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
6. According to the EUT character, WLAN 5GHz and Bluetooth can transmit simultaneously.
7. According to the EUT character, WLAN 2.4GHz/5GHz/Bluetooth and NFC can transmit simultaneously.
8. The reported SAR summation is calculated based on the same configuration and test position.
9. All licensed modes share the same antenna part and cannot transmit simultaneously.
10. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation $< 1.6\text{W/kg}$.
 - ii) $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $\text{SPLSR} \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR $< 1.6\text{W/kg}$.
 - v) The SPLSR calculated results please refer to section 17.3.

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

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

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

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

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

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

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

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

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

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

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

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

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



17.2 Body Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7	Case No
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 6 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN5GHz Ant 6 1g SAR (W/kg)	WLAN5GHz Ant 7 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	NFC Ant 9 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
LTE Band 71 Ant 0	Bottom Face	0.430	0.680	0.687	0.683	0.674	0.121	0.053	1.85	1.96	1&2
	Edge 1	0.060		0.495		0.685			0.56	0.75	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.664	0.334	0.423	0.513	0.201	0.060		1.42	1.44	
LTE Band 12 Ant 0	Bottom Face	0.531	0.680	0.687	0.683	0.674	0.121	0.053	1.95	2.06	3&4
	Edge 1	0.265		0.495		0.685			0.76	0.95	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.680	0.334	0.423	0.513	0.201	0.060		1.44	1.45	
LTE Band 13 Ant 0	Bottom Face	0.569	0.680	0.687	0.683	0.674	0.121	0.053	1.99	2.10	5&6
	Edge 1	0.192		0.495		0.685			0.69	0.88	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.665	0.334	0.423	0.513	0.201	0.060		1.42	1.44	
LTE Band 14 Ant 0	Bottom Face	0.331	0.680	0.687	0.683	0.674	0.121	0.053	1.75	1.86	7&8
	Edge 1	0.135		0.495		0.685			0.63	0.82	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.634	0.334	0.423	0.513	0.201	0.060		1.39	1.41	
LTE Band 5 Ant 2	Bottom Face	1.236	0.680	0.687	0.683	0.674	0.121	0.053	2.66	2.77	9&10
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.744	0.334	0.423	0.513	0.201	0.060		1.50	1.52	
LTE Band 5 Ant 0	Bottom Face	0.413	0.680	0.687	0.683	0.674	0.121	0.053	1.83	1.94	11&12
	Edge 1	0.171		0.495		0.685			0.67	0.86	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.601	0.334	0.423	0.513	0.201	0.060		1.36	1.38	
LTE Band 26 Ant 0	Bottom Face	0.490	0.680	0.687	0.683	0.674	0.121	0.053	1.91	2.02	13&14
	Edge 1	0.175		0.495		0.685			0.67	0.86	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.683	0.334	0.423	0.513	0.201	0.060		1.44	1.46	
LTE Band 66 Ant 0	Bottom Face	0.612	0.680	0.687	0.683	0.674	0.121	0.053	2.03	2.14	15&16
	Edge 1	0.458		0.495		0.685			0.95	1.14	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.474	0.334	0.423	0.513	0.201	0.060		1.23	1.25	
LTE Band 66 Ant 2	Bottom Face	1.256	0.680	0.687	0.683	0.674	0.121	0.053	2.68	2.79	17&18
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.713	0.334	0.423	0.513	0.201	0.060		1.47	1.49	
LTE Band 25 Ant 0	Bottom Face	0.470	0.680	0.687	0.683	0.674	0.121	0.053	1.89	2.00	20&21
	Edge 1	0.171		0.495		0.685			0.67	0.86	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.563	0.334	0.423	0.513	0.201	0.060		1.32	1.34	
LTE Band 2 Ant 2	Bottom Face	1.249	0.680	0.687	0.683	0.674	0.121	0.053	2.67	2.78	22&23
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	1.192	0.334	0.423	0.513	0.201	0.060		1.95	1.97	24&25
LTE Band 7 Ant 0	Bottom Face	0.463	0.680	0.687	0.683	0.674	0.121	0.053	1.88	1.99	26&27
	Edge 1	0.173				0.685			0.17	0.86	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.657	0.334	0.423	0.513	0.201	0.060		1.41	1.43	
LTE Band 38 Ant 0	Bottom Face	0.517	0.680	0.687	0.683	0.674	0.121	0.053	1.94	2.05	28&29
	Edge 1	0.222		0.495		0.685			0.72	0.91	



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	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.566	0.334	0.423	0.513	0.201	0.060		1.32	1.34	
LTE Band 7 Ant 2	Bottom Face	1.235	0.680	0.687	0.683	0.674	0.121	0.053	2.66	2.77	30&31
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.431	0.334	0.423	0.513	0.201	0.060		1.19	1.21	
LTE Band 41 Ant 2	Bottom Face	1.256	0.680	0.687	0.683	0.674	0.121	0.053	2.68	2.79	32&33
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.329	0.334	0.423	0.513	0.201	0.060		1.09	1.10	
LTE Band 48 Ant 3	Bottom Face	1.254	0.680	0.687	0.683	0.674	0.121	0.053	2.67	2.79	34&35
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.829	0.334	0.423	0.513	0.201	0.060		1.59	1.60	36

5G NR

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7	Case No
		FR1 1g SAR (W/kg)	WLAN2.4GHz Ant 6 1g SAR (W/kg)	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN5GHz Ant 6 1g SAR (W/kg)	WLAN5GHz Ant 7 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	NFC Ant 9 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
FR1 n71 Ant 0	Bottom Face	0.376	0.680	0.687	0.683	0.674	0.121	0.053	1.80	1.91	37&38
	Edge 1	0.163		0.495		0.685			0.66	0.85	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.580	0.334	0.423	0.513	0.201	0.060		1.34	1.35	
FR1 n12 Ant 0	Bottom Face	0.549	0.680	0.687	0.683	0.674	0.121	0.053	1.97	2.08	39&40
	Edge 1	0.373		0.495		0.685			0.87	1.06	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.688	0.334	0.423	0.513	0.201	0.060		1.45	1.46	
FR1 n13 Ant 0	Bottom Face	0.520	0.680	0.687	0.683	0.674	0.121	0.053	1.94	2.05	41&42
	Edge 1	0.232		0.495		0.685			0.73	0.92	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.685	0.334	0.423	0.513	0.201	0.060		1.44	1.46	
FR1 n14 Ant 0	Bottom Face	0.450	0.680	0.687	0.683	0.674	0.121	0.053	1.87	1.98	43&44
	Edge 1	0.151		0.495		0.685			0.65	0.84	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.683	0.334	0.423	0.513	0.201	0.060		1.44	1.46	
FR1 n5 Ant 2	Bottom Face	1.047	0.680	0.687	0.683	0.674	0.121	0.053	2.47	2.58	45&46
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.747	0.334	0.423	0.513	0.201	0.060		1.50	1.52	
FR1 n5 Ant 0	Bottom Face	0.611	0.680	0.687	0.683	0.674	0.121	0.053	2.03	2.14	47&48
	Edge 1	0.235		0.495		0.685			0.73	0.92	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.640	0.334	0.423	0.513	0.201	0.060		1.40	1.41	
FR1 n66 Ant 0	Bottom Face	0.680	0.680	0.687	0.683	0.674	0.121	0.053	2.10	2.21	49&50
	Edge 1	0.355		0.495		0.685			0.85	1.04	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.414	0.334	0.423	0.513	0.201	0.060		1.17	1.19	
FR1 n66 Ant 2	Bottom Face	0.852	0.680	0.687	0.683	0.674	0.121	0.053	2.27	2.38	51&52
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	1.230	0.334	0.423	0.513	0.201	0.060		1.99	2.00	53&54
FR1 n25 Ant 0	Bottom Face	0.580	0.680	0.687	0.683	0.674	0.121	0.053	2.00	2.11	55&56
	Edge 1	0.219		0.495		0.685			0.71	0.90	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.630	0.334	0.423	0.513	0.201	0.060		1.39	1.40	



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FR1 n25 Ant 2	Bottom Face	1.240	0.680	0.687	0.683	0.674	0.121	0.053	2.66	2.77	57&58
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	1.232	0.334	0.423	0.513	0.201	0.060		1.99	2.01	59&60
FR1 n7 Ant 0	Bottom Face	0.457	0.680	0.687	0.683	0.674	0.121	0.053	1.88	1.99	61&62
	Edge 1	0.167		0.495		0.685			0.66	0.85	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.652	0.334	0.423	0.513	0.201	0.060		1.41	1.43	
FR1 n7 Ant 2	Bottom Face	1.244	0.680	0.687	0.683	0.674	0.121	0.053	2.66	2.78	63&64
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.305	0.334	0.423	0.513	0.201	0.060		1.06	1.08	
FR1 n41-HPUE Ant 2	Bottom Face	1.259	0.680	0.687	0.683	0.674	0.121	0.053	2.68	2.79	65&66
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3	0.118	0.664		0.597		0.049		0.78	0.76	
	Edge 4	0.396	0.334	0.423	0.513	0.201	0.060		1.15	1.17	
FR1 n41 Ant 1	Bottom Face	1.253	0.680	0.687	0.683	0.674	0.121	0.053	2.67	2.78	67&68
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 2	0.459							0.46	0.46	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
FR1 n41 Ant 4	Bottom Face	1.248	0.680	0.687	0.683	0.674	0.121	0.053	2.67	2.78	69&70
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 2	0.063							0.06	0.06	
	Edge 3	0.450	0.664		0.597		0.049		1.11	1.10	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
FR1 n41 Ant 5	Bottom Face	0.725	0.680	0.687	0.683	0.674	0.121	0.053	2.15	2.26	71&72
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3	0.539	0.664		0.597		0.049		1.20	1.19	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
FR1 n48 Ant 3	Bottom Face	1.237	0.680	0.687	0.683	0.674	0.121	0.053	2.66	2.77	73&74
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	1.147	0.334	0.423	0.513	0.201	0.060		1.90	1.92	75&76
Part270_FR1 n77 Ant 1	Bottom Face	1.168	0.680	0.687	0.683	0.674	0.121	0.053	2.59	2.70	77&78
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 2	1.257							1.26	1.26	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
Part270_FR1 n77 Ant 1	Bottom Face	1.017	0.680	0.687	0.683	0.674	0.121	0.053	2.44	2.55	79&80
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 2	1.060							1.06	1.06	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
Part270_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0.680	0.687	0.683	0.674	0.121	0.053	2.31	2.42	81&82
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.510	0.334	0.423	0.513	0.201	0.060		1.27	1.28	
Part270_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0.680	0.687	0.683	0.674	0.121	0.053	2.66	2.77	83&84
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3		0.664		0.597		0.049		0.66	0.65	
	Edge 4	0.570	0.334	0.423	0.513	0.201	0.060		1.33	1.34	
Part270_FR1 n77 Ant 4	Bottom Face	1.048	0.680	0.687	0.683	0.674	0.121	0.053	2.47	2.58	85&86
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 2	0.241							0.24	0.24	
	Edge 3	1.242	0.664		0.597		0.049		1.91	1.89	87&88



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	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0.680	0.687	0.683	0.674	0.121	0.053	2.19	2.30	89&90
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 2	0.037							0.04	0.04	
	Edge 3	0.814	0.664		0.597		0.049		1.48	1.46	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0.680	0.687	0.683	0.674	0.121	0.053	2.11	2.22	91&92
	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3	0.687	0.664		0.597		0.049		1.35	1.33	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	
	Bottom Face	0.604	0.680	0.687	0.683	0.674	0.121	0.053	2.02	2.14	93&94
Part27Q_FR1 n77 Ant 5	Edge 1			0.495		0.685			0.50	0.69	
	Edge 3	0.419	0.664		0.597		0.049		1.08	1.07	
	Edge 4		0.334	0.423	0.513	0.201	0.060		0.76	0.77	

Sensor Off

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		WWAN	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 12 Ant 0	Bottom Face at 14mm	0.449	0.030	0.060	0.067	0.076	0.121	0.053	0.59	0.77
	Edge 1 at 1mm	0.154		0.440		0.685			0.59	0.84
	Edge 4 at 18mm	0.279	0.056	0.423	0.513	0.201	0.060		0.76	1.05
LTE Band 13 Ant 0	Bottom Face at 14mm	0.379	0.030	0.060	0.067	0.076	0.121	0.053	0.52	0.70
	Edge 1 at 1mm	0.232		0.440		0.685			0.67	0.92
	Edge 4 at 18mm	0.100	0.056	0.423	0.513	0.201	0.060		0.58	0.87
LTE Band 14 Ant 0	Bottom Face at 14mm	0.506	0.030	0.060	0.067	0.076	0.121	0.053	0.65	0.82
	Edge 1 at 1mm	0.246		0.440		0.685			0.69	0.93
	Edge 4 at 18mm	0.135	0.056	0.423	0.513	0.201	0.060		0.61	0.91
LTE Band 5 Ant 0	Bottom Face at 14mm	0.392	0.030	0.060	0.067	0.076	0.121	0.053	0.54	0.71
	Edge 1 at 1mm	0.139		0.440		0.685			0.58	0.82
	Edge 4 at 18mm	0.042	0.056	0.423	0.513	0.201	0.060		0.52	0.82
LTE Band 26 Ant 0	Bottom Face at 14mm	0.354	0.030	0.060	0.067	0.076	0.121	0.053	0.50	0.67
	Edge 1 at 1mm	0.238		0.440		0.685			0.68	0.92
	Edge 4 at 18mm	0.112	0.056	0.423	0.513	0.201	0.060		0.59	0.89
LTE Band 66 Ant 0	Bottom Face at 14mm	0.572	0.030	0.060	0.067	0.076	0.121	0.053	0.72	0.89
	Edge 1 at 1mm	0.615		0.440		0.685			1.06	1.30
	Edge 4 at 18mm	0.328	0.056	0.423	0.513	0.201	0.060		0.81	1.10
LTE Band 25 Ant 0	Bottom Face at 14mm	0.686	0.030	0.060	0.067	0.076	0.121	0.053	0.83	1.00
	Edge 1 at 1mm	0.682		0.440		0.685			1.12	1.37
	Edge 4 at 18mm	0.489	0.056	0.423	0.513	0.201	0.060		0.97	1.26
LTE Band 7 Ant 0	Bottom Face at 14mm	0.961	0.030	0.060	0.067	0.076	0.121	0.053	1.10	1.28
	Edge 1 at 1mm	0.901		0.440		0.685			1.34	1.59
	Edge 4 at 18mm	0.684	0.056	0.423	0.513	0.201	0.060		1.16	1.46
LTE Band 38 Ant 0	Bottom Face at 14mm	0.469	0.030	0.060	0.067	0.076	0.121	0.053	0.61	0.79
	Edge 1 at 1mm	0.629		0.440		0.685			1.07	1.31
	Edge 4 at 18mm	0.311	0.056	0.423	0.513	0.201	0.060		0.79	1.09
LTE Band 5 Ant 2	Bottom Face at 13mm	0.382	0.030	0.060	0.067	0.076	0.121	0.053	0.53	0.70
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.123	0.056	0.423	0.513	0.201	0.060		0.60	0.90
LTE Band 66 Ant 2	Bottom Face at 13mm	0.973	0.030	0.060	0.067	0.076	0.121	0.053	1.12	1.29
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.464	0.056	0.423	0.513	0.201	0.060		0.94	1.24
LTE Band 2 Ant 2	Bottom Face at 13mm	0.730	0.030	0.060	0.067	0.076	0.121	0.053	0.87	1.05
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.389	0.056	0.423	0.513	0.201	0.060		0.87	1.16



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LTE Band 7 Ant 2	Bottom Face at 13mm	1.179	0.030	0.060	0.067	0.076	0.121	0.053	1.32	1.50
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.357	0.056	0.423	0.513	0.201	0.060		0.84	1.13
LTE Band 41 Ant 2	Bottom Face at 13mm	0.996	0.030	0.060	0.067	0.076	0.121	0.053	1.14	1.31
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.416	0.056	0.423	0.513	0.201	0.060		0.90	1.19
LTE Band 48 Ant 3	Bottom Face at 14mm	0.576	0.030	0.060	0.067	0.076	0.121	0.053	0.72	0.89
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 18mm	0.364	0.056	0.423	0.513	0.201	0.060		0.84	1.14

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		WWAN	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 12 Ant 0	Bottom Face at 18mm	0.184	0.095	0.203	0.503	0.528	0.121	0.053	0.54	1.39
	Edge 4 at 15mm	0.041	0.056	0.423	0.513	0.201	0.060		0.52	0.82
LTE Band 13 Ant 0	Bottom Face at 18mm	0.379	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.58
	Edge 4 at 15mm	0.050	0.056	0.423	0.513	0.201	0.060		0.53	0.82
LTE Band 14 Ant 0	Bottom Face at 18mm	0.266	0.095	0.203	0.503	0.528	0.121	0.053	0.62	1.47
	Edge 4 at 15mm	0.051	0.056	0.423	0.513	0.201	0.060		0.53	0.83
LTE Band 5 Ant 0	Bottom Face at 18mm	0.218	0.095	0.203	0.503	0.528	0.121	0.053	0.57	1.42
	Edge 4 at 15mm	0.046	0.056	0.423	0.513	0.201	0.060		0.53	0.82
LTE Band 26 Ant 0	Bottom Face at 18mm	0.354	0.095	0.203	0.503	0.528	0.121	0.053	0.71	1.56
	Edge 4 at 15mm	0.087	0.056	0.423	0.513	0.201	0.060		0.57	0.86
LTE Band 66 Ant 0	Bottom Face at 18mm	0.383	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.59
	Edge 4 at 15mm	0.048	0.056	0.423	0.513	0.201	0.060		0.53	0.82
LTE Band 25 Ant 0	Bottom Face at 18mm	0.374	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.58
	Edge 4 at 15mm	0.061	0.056	0.423	0.513	0.201	0.060		0.54	0.84
LTE Band 7 Ant 0	Bottom Face at 18mm	0.377	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.58
	Edge 4 at 15mm	0.070	0.056	0.423	0.513	0.201	0.060		0.55	0.84
LTE Band 38 Ant 0	Bottom Face at 18mm	0.344	0.095	0.203	0.503	0.528	0.121	0.053	0.70	1.55
	Edge 4 at 15mm	0.046	0.056	0.423	0.513	0.201	0.060		0.53	0.82
LTE Band 5 Ant 2	Bottom Face at 18mm	0.382	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.59
	Edge 4 at 15mm	0.123	0.056	0.423	0.513	0.201	0.060		0.60	0.90
LTE Band 66 Ant 2	Bottom Face at 18mm	0.357	0.095	0.203	0.503	0.528	0.121	0.053	0.71	1.56
	Edge 4 at 15mm	0.464	0.056	0.423	0.513	0.201	0.060		0.94	1.24
LTE Band 2 Ant 2	Bottom Face at 18mm	0.230	0.095	0.203	0.503	0.528	0.121	0.053	0.58	1.44
	Edge 4 at 15mm	0.389	0.056	0.423	0.513	0.201	0.060		0.87	1.16
LTE Band 7 Ant 2	Bottom Face at 18mm	0.385	0.095	0.203	0.503	0.528	0.121	0.053	0.74	1.59
	Edge 4 at 15mm	0.357	0.056	0.423	0.513	0.201	0.060		0.84	1.13
LTE Band 41 Ant 2	Bottom Face at 18mm	0.375	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.58
	Edge 4 at 15mm	0.416	0.056	0.423	0.513	0.201	0.060		0.90	1.19
LTE Band 48 Ant 3	Bottom Face at 18mm	0.260	0.095	0.203	0.503	0.528	0.121	0.053	0.61	1.47
	Edge 4 at 15mm	0.088	0.056	0.423	0.513	0.201	0.060		0.57	0.86



WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		WWAN	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 12 Ant 0	Bottom Face at 17mm	0.449	0.030	0.203	0.067	0.620	0.121	0.053	0.74	1.31
	Edge 1 at 14mm	0.154		0.320		0.734			0.47	0.89
LTE Band 13 Ant 0	Bottom Face at 17mm	0.379	0.030	0.203	0.067	0.620	0.121	0.053	0.67	1.24
	Edge 1 at 14mm	0.232		0.320		0.734			0.55	0.97
LTE Band 14 Ant 0	Bottom Face at 17mm	0.506	0.030	0.203	0.067	0.620	0.121	0.053	0.79	1.37
	Edge 1 at 14mm	0.246		0.320		0.734			0.57	0.98
LTE Band 5 Ant 0	Bottom Face at 17mm	0.392	0.030	0.203	0.067	0.620	0.121	0.053	0.68	1.25
	Edge 1 at 14mm	0.139		0.320		0.734			0.46	0.87
LTE Band 26 Ant 0	Bottom Face at 17mm	0.354	0.030	0.203	0.067	0.620	0.121	0.053	0.64	1.22
	Edge 1 at 14mm	0.238		0.320		0.734			0.56	0.97
LTE Band 66 Ant 0	Bottom Face at 17mm	0.572	0.030	0.203	0.067	0.620	0.121	0.053	0.86	1.43
	Edge 1 at 14mm	0.615		0.320		0.734			0.94	1.35
LTE Band 25 Ant 0	Bottom Face at 17mm	0.686	0.030	0.203	0.067	0.620	0.121	0.053	0.97	1.55
	Edge 1 at 14mm	0.682		0.320		0.734			1.00	1.42
LTE Band 7 Ant 0	Bottom Face at 17mm	0.429	0.030	0.203	0.067	0.620	0.121	0.053	0.72	1.29
	Edge 1 at 14mm	0.066		0.320		0.734			0.39	0.80
LTE Band 38 Ant 0	Bottom Face at 17mm	0.469	0.030	0.203	0.067	0.620	0.121	0.053	0.76	1.33
	Edge 1 at 14mm	0.629		0.320		0.734			0.95	1.36
LTE Band 5 Ant 2	Bottom Face at 17mm	0.382	0.030	0.203	0.067	0.620	0.121	0.053	0.67	1.24
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
LTE Band 66 Ant 2	Bottom Face at 17mm	0.382	0.030	0.203	0.067	0.620	0.121	0.053	0.67	1.24
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
LTE Band 2 Ant 2	Bottom Face at 17mm	0.730	0.030	0.203	0.067	0.620	0.121	0.053	1.02	1.59
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
LTE Band 7 Ant 2	Bottom Face at 17mm	0.425	0.030	0.203	0.067	0.620	0.121	0.053	0.71	1.29
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
LTE Band 41 Ant 2	Bottom Face at 17mm	0.420	0.030	0.203	0.067	0.620	0.121	0.053	0.71	1.28
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
LTE Band 48 Ant 3	Bottom Face at 17mm	0.576	0.030	0.203	0.067	0.620	0.121	0.053	0.86	1.44
	Edge 1 at 14mm			0.320		0.734			0.32	0.73



WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		FR1	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n14 Ant 0	Bottom Face at 14mm	0.679	0.030	0.060	0.067	0.076	0.121	0.053	0.82	1.00
	Edge 1 at 1mm	0.527		0.440		0.685			0.97	1.21
	Edge 4 at 18mm	0.205	0.056	0.423	0.513	0.201	0.060		0.68	0.98
FR1 n5 Ant 0	Bottom Face at 14mm	0.455	0.030	0.060	0.067	0.076	0.121	0.053	0.60	0.77
	Edge 1 at 1mm	0.206		0.440		0.685			0.65	0.89
	Edge 4 at 18mm	0.103	0.056	0.423	0.513	0.201	0.060		0.58	0.88
FR1 n66 Ant 0	Bottom Face at 14mm	0.589	0.030	0.060	0.067	0.076	0.121	0.053	0.73	0.91
	Edge 1 at 1mm	0.682		0.440		0.685			1.12	1.37
	Edge 4 at 18mm	0.307	0.056	0.423	0.513	0.201	0.060		0.79	1.08
FR1 n25 Ant 0	Bottom Face at 14mm	0.585	0.030	0.060	0.067	0.076	0.121	0.053	0.73	0.90
	Edge 1 at 1mm	0.629		0.440		0.685			1.07	1.31
	Edge 4 at 18mm	0.568	0.056	0.423	0.513	0.201	0.060		1.05	1.34
FR1 n7 Ant 0	Bottom Face at 14mm	0.684	0.030	0.060	0.067	0.076	0.121	0.053	0.83	1.00
	Edge 1 at 1mm	0.564		0.440		0.685			1.00	1.25
	Edge 4 at 18mm	0.739	0.056	0.423	0.513	0.201	0.060		1.22	1.51
FR1 n5 Ant 2	Bottom Face at 13mm	0.554	0.030	0.060	0.067	0.076	0.121	0.053	0.70	0.87
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.150	0.056	0.423	0.513	0.201	0.060		0.63	0.92
FR1 n66 Ant 2	Bottom Face at 13mm	1.131	0.030	0.060	0.067	0.076	0.121	0.053	1.27	1.45
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.583	0.056	0.423	0.513	0.201	0.060		1.06	1.36
FR1 n25 Ant 2	Bottom Face at 13mm	1.026	0.030	0.060	0.067	0.076	0.121	0.053	1.17	1.34
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.590	0.056	0.423	0.513	0.201	0.060		1.07	1.36
FR1 n7 Ant 2	Bottom Face at 13mm	1.166	0.030	0.060	0.067	0.076	0.121	0.053	1.31	1.48
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.460	0.056	0.423	0.513	0.201	0.060		0.94	1.23
FR1 n41-HPUE Ant 2	Bottom Face at 13mm	1.232	0.030	0.060	0.067	0.076	0.121	0.053	1.38	1.55
	Edge 1 at 0mm			0.440		0.685			0.44	0.69
	Edge 4 at 15mm	0.441	0.056	0.423	0.513	0.201	0.060		0.92	1.22
FR1 n48 Ant 3	Bottom Face at 14mm	0.747	0.030	0.060	0.067	0.076	0.121	0.053	0.89	1.06
	Edge 1 at 1mm			0.440		0.685			0.44	0.69
	Edge 4 at 18mm	0.589	0.056	0.423	0.513	0.201	0.060		1.07	1.36
Part270_FR1 n77-HPUE Ant 3	Bottom Face at 14mm	1.148	0.030	0.060	0.067	0.076	0.121	0.053	1.29	1.47
	Edge 1 at 1mm			0.440		0.685			0.44	0.69
	Edge 4 at 18mm	0.752	0.056	0.423	0.513	0.201	0.060		1.23	1.53
Part27Q_FR1 n77-HPUE Ant 3	Bottom Face at 14mm	1.226	0.030	0.060	0.067	0.076	0.121	0.053	1.37	1.54
	Edge 1 at 1mm			0.440		0.685			0.44	0.69
	Edge 4 at 18mm	0.530	0.056	0.423	0.513	0.201	0.060		1.01	1.30

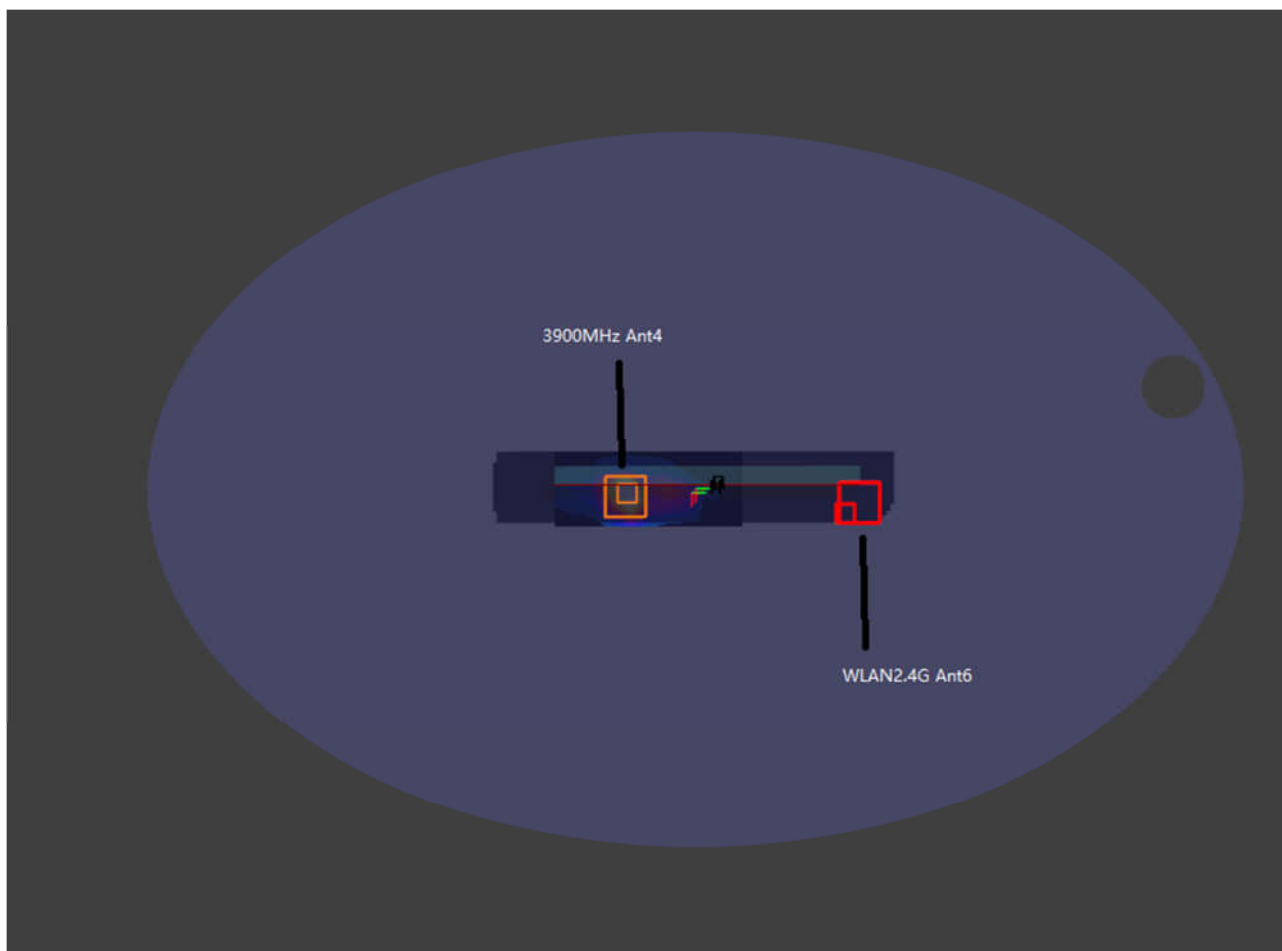
WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		FR1	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n14 Ant 0	Bottom Face at 18mm	0.336	0.095	0.203	0.503	0.528	0.121	0.053	0.69	1.54
	Edge 4 at 15mm	0.050	0.056	0.423	0.513	0.201	0.060		0.53	0.82
FR1 n5 Ant 0	Bottom Face at 18mm	0.182	0.095	0.203	0.503	0.528	0.121	0.053	0.53	1.39
	Edge 4 at 15mm	0.046	0.056	0.423	0.513	0.201	0.060		0.53	0.82
FR1 n66 Ant 0	Bottom Face at 18mm	0.315	0.095	0.203	0.503	0.528	0.121	0.053	0.67	1.52
	Edge 4 at 15mm	0.414	0.056	0.203	0.513	0.201	0.060		0.67	1.19
FR1 n25 Ant 0	Bottom Face at 18mm	0.294	0.095	0.203	0.503	0.528	0.121	0.053	0.65	1.50
	Edge 4 at 15mm	0.630	0.056	0.423	0.513	0.201	0.060		1.11	1.40
FR1 n7 Ant 0	Bottom Face at 18mm	0.385	0.095	0.203	0.503	0.528	0.121	0.053	0.74	1.59
	Edge 4 at 15mm	0.684	0.056	0.423	0.513	0.201	0.060		1.16	1.46
FR1 n5 Ant 2	Bottom Face at 18mm	0.237	0.095	0.203	0.503	0.528	0.121	0.053	0.59	1.44
	Edge 4 at 15mm	0.150	0.056	0.423	0.513	0.201	0.060		0.63	0.92
FR1 n66 Ant 2	Bottom Face at 18mm	0.371	0.095	0.203	0.503	0.528	0.121	0.053	0.72	1.58
	Edge 4 at 15mm	0.583	0.056	0.423	0.513	0.201	0.060		1.06	1.36
FR1 n25 Ant 2	Bottom Face at 18mm	0.380	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.59
	Edge 4 at 15mm	0.590	0.056	0.423	0.513	0.201	0.060		1.07	1.36
FR1 n7 Ant 2	Bottom Face at 18mm	0.381	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.59
	Edge 4 at 15mm	0.460	0.056	0.423	0.513	0.201	0.060		0.94	1.23
FR1 n41-HPUE Ant 2	Bottom Face at 18mm	0.360	0.095	0.203	0.503	0.528	0.121	0.053	0.71	1.57
	Edge 4 at 15mm	0.441	0.056	0.423	0.513	0.201	0.060		0.92	1.22
FR1 n48 Ant 3	Bottom Face at 18mm	0.379	0.095	0.203	0.503	0.528	0.121	0.053	0.73	1.58
	Edge 4 at 15mm	0.158	0.056	0.423	0.513	0.201	0.060		0.64	0.93
Part27O_FR1 n77-HPUE Ant 3	Bottom Face at 18mm	0.359	0.095	0.203	0.503	0.528	0.121	0.053	0.71	1.56
	Edge 4 at 15mm	0.067	0.056	0.423	0.513	0.201	0.060		0.55	0.84
Part27Q_FR1 n77-HPUE Ant 3	Bottom Face at 18mm	0.372	0.095	0.203	0.503	0.528	0.121	0.053	0.72	1.58
	Edge 4 at 15mm	0.085	0.056	0.423	0.513	0.201	0.060		0.56	0.86

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2+3+7	1+4+5+6+7
		FR1	WLAN2.4GHz Ant 6	WLAN2.4GHz Ant 7	WLAN5GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	NFC Ant 9	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n14 Ant 0	Bottom Face at 17mm	0.679	0.030	0.203	0.067	0.620	0.121	0.053	0.97	1.54
	Edge 1 at 14mm	0.527		0.320		0.734			0.85	1.26
FR1 n5 Ant 0	Bottom Face at 17mm	0.455	0.030	0.203	0.067	0.620	0.053	0.053	0.74	1.25
	Edge 1 at 14mm	0.206		0.320		0.734			0.53	0.94
FR1 n66 Ant 0	Bottom Face at 17mm	0.589	0.030	0.203	0.067	0.620	0.121	0.053	0.88	1.45
	Edge 1 at 14mm	0.682		0.320		0.734			1.00	1.42
FR1 n25 Ant 0	Bottom Face at 17mm	0.585	0.030	0.203	0.067	0.620	0.121	0.053	0.87	1.45
	Edge 1 at 14mm	0.629		0.320		0.734			0.95	1.36
FR1 n7 Ant 0	Bottom Face at 17mm	0.684	0.030	0.203	0.067	0.620	0.121	0.053	0.97	1.55
	Edge 1 at 14mm	0.564		0.320		0.734			0.88	1.30
FR1 n5 Ant 2	Bottom Face at 17mm	0.554	0.030	0.203	0.067	0.620	0.121	0.053	0.84	1.42
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
FR1 n66 Ant 2	Bottom Face at 17mm	0.420	0.030	0.203	0.067	0.620	0.121	0.053	0.71	1.28
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
FR1 n25 Ant 2	Bottom Face at 17mm	0.473	0.030	0.203	0.067	0.620	0.121	0.053	0.76	1.33
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
FR1 n7 Ant 2	Bottom Face at 17mm	0.445	0.030	0.203	0.067	0.620	0.121	0.053	0.73	1.31
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
FR1 n41-HPUE Ant 2	Bottom Face at 17mm	0.472	0.030	0.203	0.067	0.620	0.121	0.053	0.76	1.33
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
FR1 n48 Ant 3	Bottom Face at 17mm	0.440	0.030	0.203	0.067	0.620	0.121	0.053	0.73	1.30
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
Part27O_FR1 n77-HPUE Ant 3	Bottom Face at 17mm	0.483	0.030	0.203	0.067	0.620	0.121	0.053	0.77	1.34
	Edge 1 at 14mm			0.320		0.734			0.32	0.73
Part27Q_FR1 n77-HPUE Ant 3	Bottom Face at 17mm	0.470	0.030	0.203	0.067	0.620	0.121	0.053	0.76	1.33
	Edge 1 at 14mm			0.320		0.734			0.32	0.73

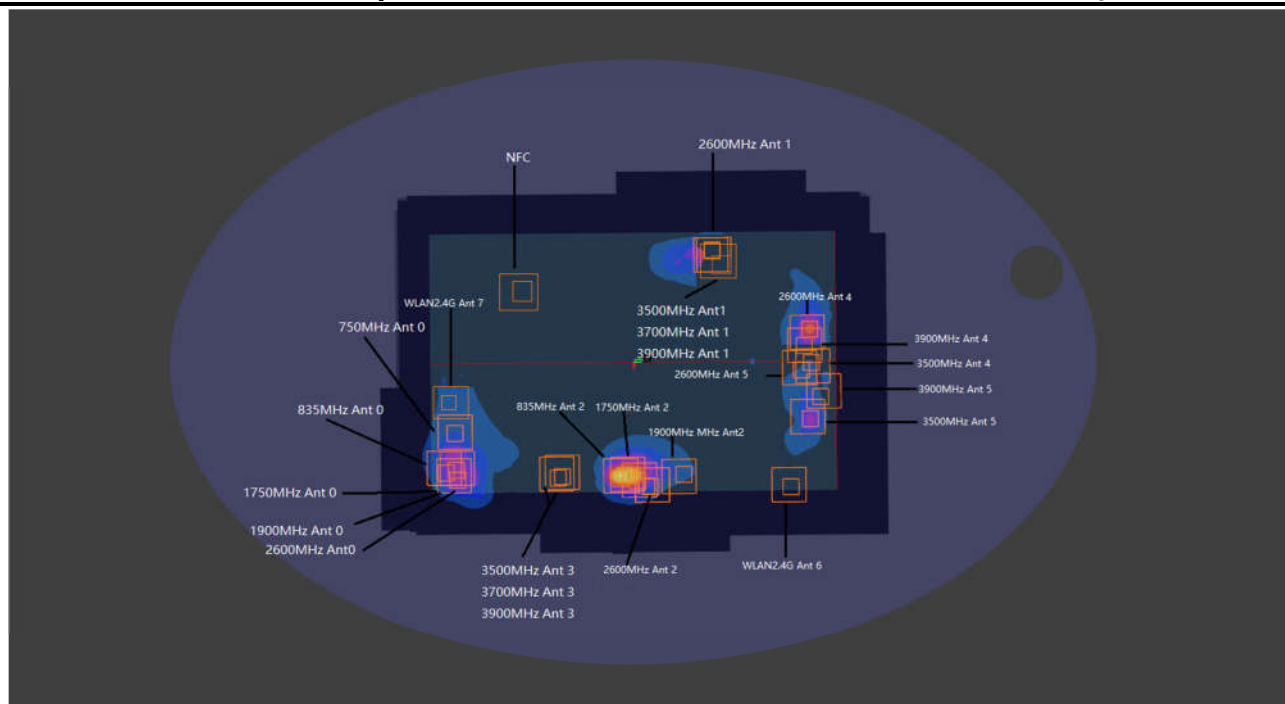
17.3 SPLSR Evaluation and Analysis

General Note:

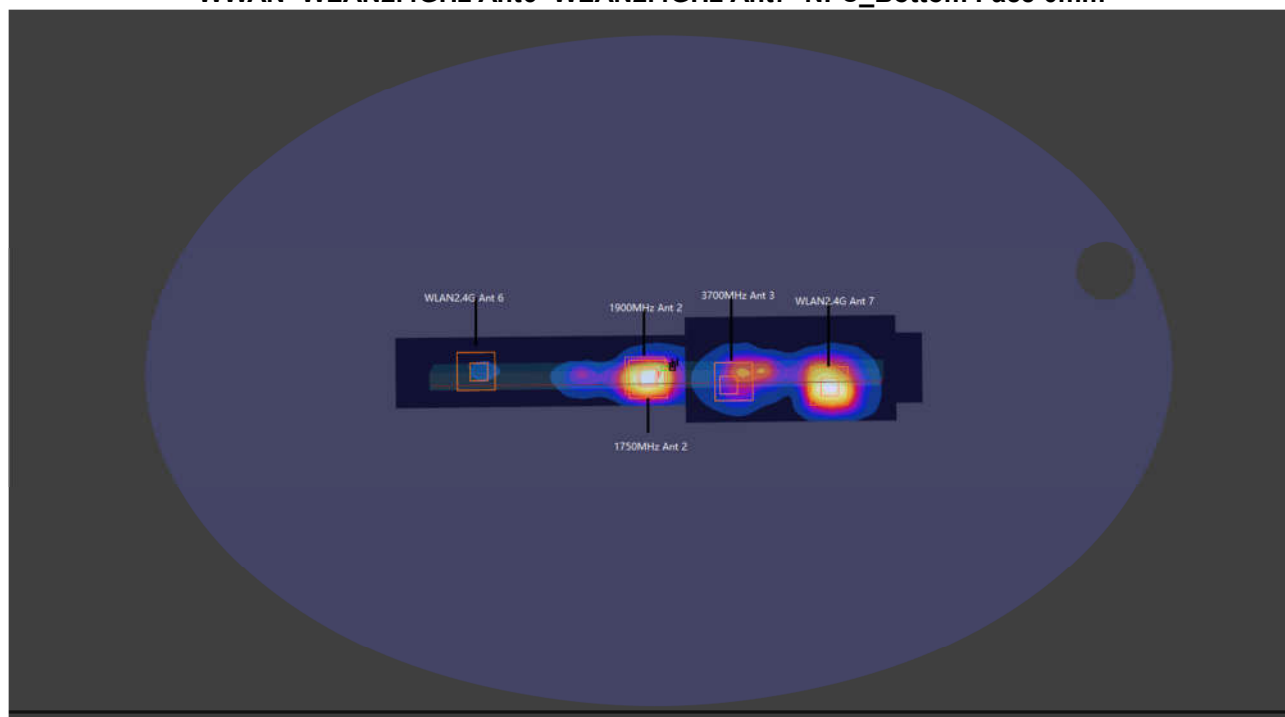
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
3. For Edge 3 and Edge 4, the NFC Peak Location Separation cannot be displayed because it test does not have a value



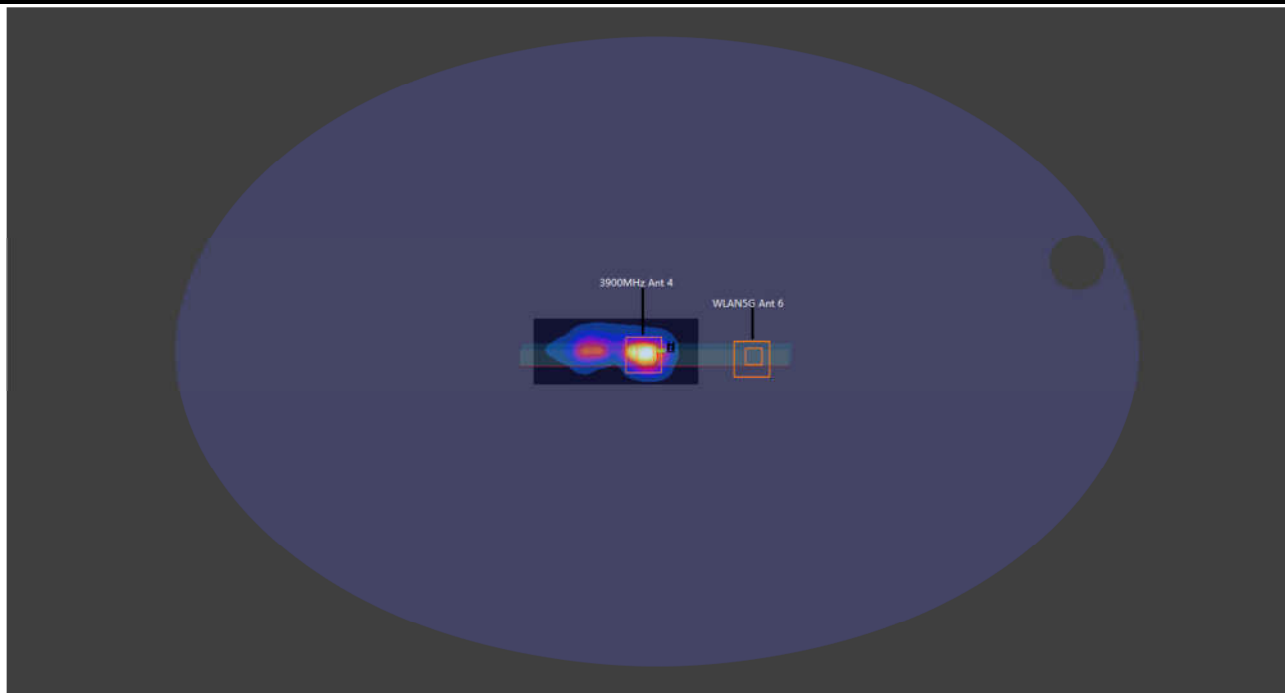
WWAN+ WLAN 2.4GHz Ant6+NFC_Edge 3 0mm



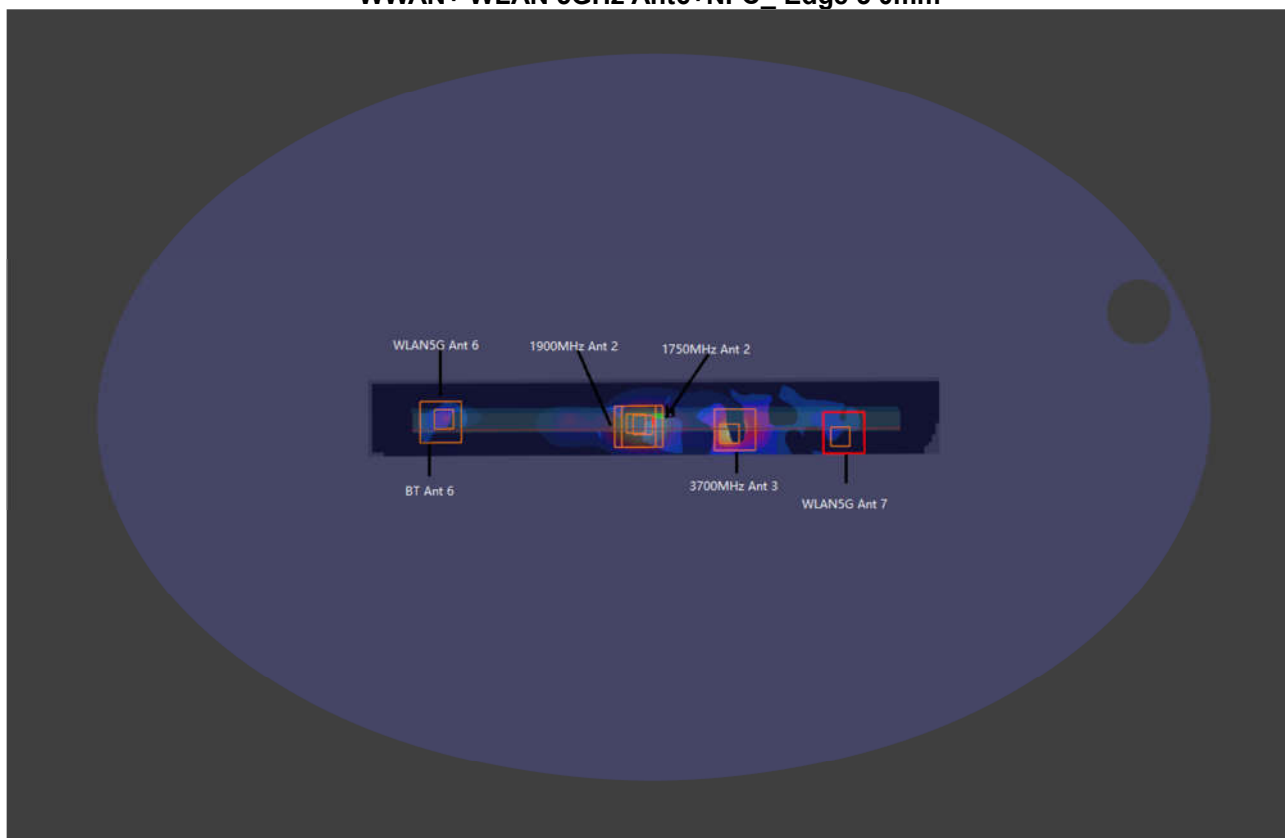
WWAN+WLAN2.4GHz Ant6+WLAN2.4GHz Ant7+NFC_Bottom Face 0mm



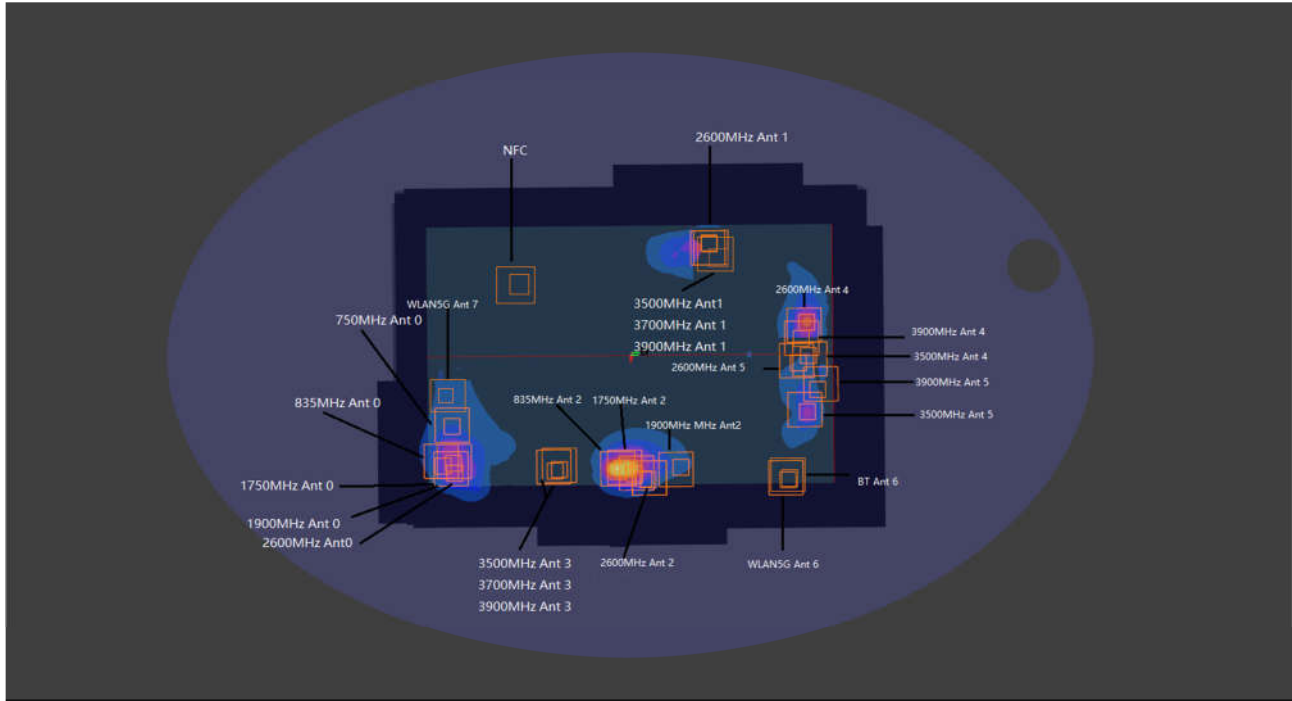
WWAN+WLAN2.4GHz Ant6+WLAN2.4GHz Ant7+NFC_Edge 4 0mm



WWAN+ WLAN 5GHz Ant6+NFC_ Edge 3 0mm



WWAN+ WLAN 5GHz Ant6+ WLAN 5GHz Ant7+BT+NFC_ Edge 4 0mm


WWAN+WLAN5GHz Ant6+WLAN5GHz Ant7+NFC+BT_Bottom Face 0mm

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	LTE Band 71 Ant 0	Bottom Face	0.43	0	-74.79	-79.63	-172.84	177.7	1.11	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 71 Ant 0	Bottom Face	0.43	0	-74.79	-79.63	-172.84	48.2	1.12	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 71 Ant 0	Bottom Face	0.43	0	-74.79	-79.63	-172.84	119.3	0.48	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 2	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	LTE Band 71 Ant 0	Bottom Face	0.43	0	-74.79	-79.63	-172.84	178.0	1.23	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 71 Ant 0	Bottom Face	0.43	0	-74.79	-79.63	-172.84	74.0	1.10	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 71 Ant 0	Bottom Face	0.43	0	-74.79	-79.63	-172.84	119.3	0.48	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required



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	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
Case 3	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 12 Ant 0	Bottom Face	0.531	0	-75.17	-79.66	-173.2	177.7	1.21	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 12 Ant 0	Bottom Face	0.531	0	-75.17	-79.66	-173.2	48.4	1.22	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 12 Ant 0	Bottom Face	0.531	0	-75.17	-79.66	-173.2	119.6	0.58	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 4	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 12 Ant 0	Bottom Face	0.531	0	-75.17	-79.66	-173.2	178.0	1.34	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 12 Ant 0	Bottom Face	0.531	0	-75.17	-79.66	-173.2	74.3	1.21	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 12 Ant 0	Bottom Face	0.531	0	-75.17	-79.66	-173.2	119.6	0.58	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 13 Ant 0	Bottom Face	0.569	0	-74.75	-79.66	-172.75	177.7	1.25	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 13 Ant 0	Bottom Face	0.569	0	-74.75	-79.66	-172.75	48.1	1.26	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 13 Ant 0	Bottom Face	0.569	0	-74.75	-79.66	-172.75	119.2	0.62	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 13 Ant 0	Bottom Face	0.569	0	-74.75	-79.66	-172.75	178.0	1.37	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 13 Ant 0	Bottom Face	0.569	0	-74.75	-79.66	-172.75	74.0	1.24	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 13 Ant 0	Bottom Face	0.569	0	-74.75	-79.66	-172.75	119.2	0.62	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required



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	Bluetooth Ant 6	Face	0.121	0	-75.8	104.8	-177	222.9	0.86	0.00	Not required
	WLAN5GHz Ant 6	Face	0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5				
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6	Bottom Face	0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 14 Ant 0	Bottom Face	0.331	0	-75.18	-79.7	-172.89	177.7	1.01	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 14 Ant 0	Bottom Face	0.331	0	-75.18	-79.7	-172.89	48.4	1.02	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 14 Ant 0	Bottom Face	0.331	0	-75.18	-79.7	-172.89	119.7	0.38	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 14 Ant 0	Bottom Face	0.331	0	-75.18	-79.7	-172.89	178.0	1.14	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 14 Ant 0	Bottom Face	0.331	0	-75.18	-79.7	-172.89	74.3	1.01	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 14 Ant 0	Bottom Face	0.331	0	-75.18	-79.7	-172.89	119.7	0.38	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 2	Bottom Face	1.236	0	-78.5	20	174.5	360.7	1.92	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 5 Ant 2	Bottom Face	1.236	0	-78.5	20	174.5	378.8	1.92	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 5 Ant 2	Bottom Face	1.236	0	-78.5	20	174.5	387.7	1.29	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 2	Bottom Face	1.236	0	-78.5	20	174.5	360.8	2.04	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				



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	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 5 Ant 2	Bottom Face	1.236	0	-78.5	20	174.5	386.7	1.91	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 5 Ant 2	Bottom Face	1.236	0	-78.5	20	174.5	387.7	1.29	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 0	Bottom Face	0.413	0	-75.86	16.04	-177.89	82.1	1.09	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 5 Ant 0	Bottom Face	0.413	0	-75.86	16.04	-177.89	135.9	1.10	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 5 Ant 0	Bottom Face	0.413	0	-75.86	16.04	-177.89	155.7	0.47	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 5 Ant 0	Bottom Face	0.413	0	-75.86	16.04	-177.89	82.6	1.22	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 5 Ant 0	Bottom Face	0.413	0	-75.86	16.04	-177.89	155.5	1.09	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 5 Ant 0	Bottom Face	0.413	0	-75.86	16.04	-177.89	155.7	0.47	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 13	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 26 Ant 0	Bottom Face	0.49	0	-74.84	14.17	-177.57	84.0	1.17	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 26 Ant 0	Bottom Face	0.49	0	-74.84	14.17	-177.57	133.9	1.18	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 26 Ant 0	Bottom Face	0.49	0	-74.84	14.17	-177.57	153.7	0.54	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				



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	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 26 Ant 0	Bottom Face	0.49	0	-74.84	14.17	-177.57	84.6	1.29	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 26 Ant 0	Bottom Face	0.49	0	-74.84	14.17	-177.57	153.4	1.16	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 26 Ant 0	Bottom Face	0.49	0	-74.84	14.17	-177.57	153.7	0.54	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	211.5	1.98	0.01	Not required
	LTE Band 66 Ant 0		0.612	0	-69.56	-113.27	-176.93				
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	93.8	1.35	0.02	Not required
	LTE Band 66 Ant 0		0.612	0	-69.56	-113.27	-176.93				
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66 Ant 0	Bottom Face	0.612	0	-69.56	-113.27	-176.93	211.8	1.42	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 66 Ant 0	Bottom Face	0.612	0	-69.56	-113.27	-176.93	52.2	1.29	0.03	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 66 Ant 0	Bottom Face	0.612	0	-69.56	-113.27	-176.93	117.8	0.67	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 17	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66 Ant 2	Bottom Face	1.256	0	-73.5	-10	-174.6	108.2	1.94	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 66 Ant 2	Bottom Face	1.256	0	-73.5	-10	-174.6	110.2	1.94	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 66 Ant 2	Bottom Face	1.256	0	-73.5	-10	-174.6	138.6	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				



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	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 18	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66 Ant 2	Bottom Face	1.256	0	-73.5	-10	-174.6	108.8	2.06	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 66 Ant 2	Bottom Face	1.256	0	-73.5	-10	-174.6	130.6	1.93	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 66 Ant 2	Bottom Face	1.256	0	-73.5	-10	-174.6	138.6	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 20	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 25 Ant 0	Bottom Face	0.47	0	-76.6	-100.5	-175.09	198.4	1.15	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 25 Ant 0	Bottom Face	0.47	0	-76.6	-100.5	-175.09	36.6	1.16	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 25 Ant 0	Bottom Face	0.47	0	-76.6	-100.5	-175.09	122.2	0.52	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5				
Case 21	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 25 Ant 0	Bottom Face	0.47	0	-76.6	-100.5	-175.09	198.6	1.27	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 25 Ant 0	Bottom Face	0.47	0	-76.6	-100.5	-175.09	63.6	1.14	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 25 Ant 0	Bottom Face	0.47	0	-76.6	-100.5	-175.09	122.2	0.52	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 22	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Bottom Face	1.249	0	-76.64	9.92	-175.87	88.1	1.93	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				



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	LTE Band 2 Ant 2	Bottom Face	1.249	0	-76.64	9.92	-175.87	130.2	1.94	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 2 Ant 2	Bottom Face	1.249	0	-76.64	9.92	-175.87	152.5	1.30	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 23	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Bottom Face	1.249	0	-76.64	9.92	-175.87	88.6	2.05	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 2 Ant 2	Bottom Face	1.249	0	-76.64	9.92	-175.87	150.1	1.92	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 2 Ant 2	Bottom Face	1.249	0	-76.64	9.92	-175.87	152.5	1.30	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 24	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Edge 4	1.192	0	-7.44	-175.79	1.79	188.9	1.53	0.01	Not required
	WLAN2.4GHz Ant 6		0.334	0	2	-104.8	-173				
	LTE Band 2 Ant 2	Edge 4	1.192	0	-7.44	-175.79	1.79	316.5	1.62	0.01	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
	WLAN2.4GHz Ant 6	Edge 4	0.334	0	2	-104.8	-173	193.2	0.76	0.00	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
Case 25	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2 Ant 2	Edge 4	1.192	0	-7.44	-175.79	1.79	187.1	1.77	0.01	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
	LTE Band 2 Ant 2	Edge 4	1.192	0	-7.44	-175.79	1.79	315.1	1.39	0.01	Not required
	WLAN5GHz Ant 7		0.201	0	-11.95	88.28	-170.06				
	WLAN5GHz Ant 7	Edge 4	0.201	0	-11.95	88.28	-170.06	189.8	0.77	0.00	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
Case 26	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 0	Bottom Face	0.463	0	-79.5	-115.13	-176.62	213.0	1.14	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 7 Ant 0	Bottom Face	0.463	0	-79.5	-115.13	-176.62	36.0	1.15	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 7 Ant 0	Bottom Face	0.463	0	-79.5	-115.13	-176.62	127.9	0.52	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required



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	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom	0.687	0	-43.5	-116	-177.3				
	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5	93.8	0.74	0.01	Not required
Case 27	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 0	Bottom Face	0.463	0	-79.5	-115.13	-176.62	213.1	1.27	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 7 Ant 0	Bottom Face	0.463	0	-79.5	-115.13	-176.62	61.3	1.14	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 7 Ant 0	Bottom Face	0.463	0	-79.5	-115.13	-176.62	127.9	0.52	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 28	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 38 Ant 0	Bottom Face	0.517	0	-80.98	-121.54	-174.76	219.4	1.20	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 38 Ant 0	Bottom Face	0.517	0	-80.98	-121.54	-174.76	38.0	1.20	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 38 Ant 0	Bottom Face	0.517	0	-80.98	-121.54	-174.76	131.1	0.57	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 29	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 38 Ant 0	Bottom Face	0.517	0	-80.98	-121.54	-174.76	219.5	1.32	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 38 Ant 0	Bottom Face	0.517	0	-80.98	-121.54	-174.76	61.7	1.19	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 38 Ant 0	Bottom Face	0.517	0	-80.98	-121.54	-174.76	131.1	0.57	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 30	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 2	Bottom Face	1.235	0	-71.98	-10.62	-178.47	109.0	1.92	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 7 Ant 2	Bottom	1.235	0	-71.98	-10.62	-178.47	109.2	1.92	0.02	Not required



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	WLAN2.4GHz Ant 7	Face	0.687	0	-43.5	-116	-177.3				
	LTE Band 7 Ant 2	Bottom	1.235	0	-71.98	-10.62	-178.47	137.0	1.29	0.01	Not required
	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7	Face	0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
Case 31	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7 Ant 2	Bottom Face	1.235	0	-71.98	-10.62	-178.47	109.5	2.04	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 7 Ant 2	Bottom Face	1.235	0	-71.98	-10.62	-178.47	129.4	1.91	0.02	Not required
	WLAN5GHz Ant 7	Face	0.674	0	-19.8	-129	-177.5				
	LTE Band 7 Ant 2	Bottom Face	1.235	0	-71.98	-10.62	-178.47	137.0	1.29	0.01	Not required
	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5				
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177	236.7	1.48	0.01	Not required
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5				
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177	222.9	0.86	0.00	Not required
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 32	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 41 Ant 2	Bottom Face	1.256	0	-71.48	-3.78	-179.62	102.2	1.94	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 41 Ant 2	Bottom Face	1.256	0	-71.48	-3.78	-179.62	115.7	1.94	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 41 Ant 2	Bottom Face	1.256	0	-71.48	-3.78	-179.62	140.3	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 33	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 41 Ant 2	Bottom Face	1.256	0	-71.48	-3.78	-179.62	102.9	2.06	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 41 Ant 2	Bottom Face	1.256	0	-71.48	-3.78	-179.62	135.5	1.93	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 41 Ant 2	Bottom Face	1.256	0	-71.48	-3.78	-179.62	140.3	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required



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Case 34	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 48 Ant 3	Bottom Face	1.254	0	-81.4	-47.66	-172.77	145.6	1.93	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	LTE Band 48 Ant 3	Bottom Face	1.254	0	-81.4	-47.66	-172.77	78.3	1.94	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	LTE Band 48 Ant 3	Bottom Face	1.254	0	-81.4	-47.66	-172.77	130.7	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 35	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 48 Ant 3	Bottom Face	1.254	0	-81.4	-47.66	-172.77	145.7	2.06	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	LTE Band 48 Ant 3	Bottom Face	1.254	0	-81.4	-47.66	-172.77	102.1	1.93	0.03	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	LTE Band 48 Ant 3	Bottom Face	1.254	0	-81.4	-47.66	-172.77	130.7	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 36	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 48 Ant 3	Edge 4	0.829	0	-11.11	43.12	-172.88	144.8	1.40	0.01	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
	LTE Band 48 Ant 3	Edge 4	0.829	0	-11.11	43.12	-172.88	45.3	1.03	0.02	Not required
	WLAN5GHz Ant 7		0.201	0	-11.95	88.28	-170.06				
	WLAN5GHz Ant 7	Edge 4	0.201	0	-11.95	88.28	-170.06	189.8	0.77	0.00	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				

Case 37	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n71 Ant 0	Bottom Face	0.376	0	-74.81	-79.65	-172.95	177.7	1.06	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n71 Ant 0	Bottom Face	0.376	0	-74.81	-79.65	-172.95	48.2	1.06	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n71 Ant 0	Bottom Face	0.376	0	-74.81	-79.65	-172.95	119.3	0.43	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required



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Case 38	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n71 Ant 0	Bottom Face	0.376	0	-74.81	-79.65	-172.95	178.0	1.18	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n71 Ant 0	Bottom Face	0.376	0	-74.81	-79.65	-172.95	74.0	1.05	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n71 Ant 0	Bottom Face	0.376	0	-74.81	-79.65	-172.95	119.3	0.43	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 39	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n12 Ant 0	Bottom Face	0.549	0	-75	-79.6	-173	177.6	1.23	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n12 Ant 0	Bottom Face	0.549	0	-75	-79.6	-173	48.3	1.24	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n12 Ant 0	Bottom Face	0.549	0	-75	-79.6	-173	119.5	0.60	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 40	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n12 Ant 0	Bottom Face	0.549	0	-75	-79.6	-173	177.9	1.35	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n12 Ant 0	Bottom Face	0.549	0	-75	-79.6	-173	74.2	1.22	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n12 Ant 0	Bottom Face	0.549	0	-75	-79.6	-173	119.5	0.60	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 41	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n13 Ant 0	Bottom Face	0.52	0	-74.67	-79.84	-172.79	177.9	1.20	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n13 Ant 0	Bottom Face	0.52	0	-74.67	-79.84	-172.79	48.0	1.21	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n13 Ant 0	Bottom	0.52	0	-74.67	-79.84	-172.79	119.1	0.57	0.00	Not required



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	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 42	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n13 Ant 0	Bottom Face	0.52	0	-74.67	-79.84	-172.79	178.2	1.32	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n13 Ant 0	Bottom Face	0.52	0	-74.67	-79.84	-172.79	73.8	1.19	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n13 Ant 0	Bottom Face	0.52	0	-74.67	-79.84	-172.79	119.1	0.57	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 43	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n14 Ant 0	Bottom Face	0.45	0	-75.12	-79.66	-172.88	177.7	1.13	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n14 Ant 0	Bottom Face	0.45	0	-75.12	-79.66	-172.88	48.4	1.14	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n14 Ant 0	Bottom Face	0.45	0	-75.12	-79.66	-172.88	119.6	0.50	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 44	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n14 Ant 0	Bottom Face	0.45	0	-75.12	-79.66	-172.88	178.0	1.25	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n14 Ant 0	Bottom Face	0.45	0	-75.12	-79.66	-172.88	74.3	1.12	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n14 Ant 0	Bottom Face	0.45	0	-75.12	-79.66	-172.88	119.6	0.50	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case	Band	Position	SAR	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



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45			(W/kg)	(mm)	X	Y	Z	distance (mm)	SAR (W/kg)		SAR
	FR1 n5 Ant 2	Bottom Face	1.047	0	-74.3	17	173	360.0	1.73	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n5 Ant 2	Bottom Face	1.047	0	-74.3	17	173	376.0	1.73	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n5 Ant 2	Bottom Face	1.047	0	-74.3	17	173	384.2	1.10	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 46	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n5 Ant 2	Bottom Face	1.047	0	-74.3	17	173	360.1	1.85	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n5 Ant 2	Bottom Face	1.047	0	-74.3	17	173	383.6	1.72	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n5 Ant 2	Bottom Face	1.047	0	-75.12	-79.66	-172.88	359.1	1.10	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
Case 47	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n5 Ant 0	Bottom Face	0.611	0	-76	16	-177.7	82.1	1.29	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n5 Ant 0	Bottom Face	0.611	0	-76	16	-177.7	135.9	1.30	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n5 Ant 0	Bottom Face	0.611	0	-76	16	-177.7	155.8	0.66	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 48	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n5 Ant 0	Bottom Face	0.611	0	-76	16	-177.7	82.6	1.42	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n5 Ant 0	Bottom Face	0.611	0	-76	16	-177.7	155.5	1.29	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n5 Ant 0	Bottom Face	0.611	0	-76	16	-177.7	350.7	0.66	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				



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	WLAN5GHz Ant 6	Bottom Face	0.683	0	-87.6	97.8	-177.7	222.9	0.86	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 49	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	211.2	2.05	0.01	Not required
	FR1 n66 Ant 0		0.68	0	-68.8	-112.9	-177.6				
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	93.8	1.42	0.02	Not required
	FR1 n66 Ant 0		0.68	0	-68.8	-112.9	-177.6				
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 50	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66 Ant 0	Bottom Face	0.68	0	-68.8	-112.9	-177.6	211.5	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n66 Ant 0	Bottom Face	0.68	0	-68.8	-112.9	-177.6	51.6	1.35	0.03	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n66 Ant 0	Bottom Face	0.68	0	-68.8	-112.9	-177.6	373.9	0.73	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 51	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66 Ant 2	Bottom Face	0.852	0	-76.4	-5	-173	103.1	1.53	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n66 Ant 2	Bottom Face	0.852	0	-76.4	-5	-173	115.9	1.54	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n66 Ant 2	Bottom Face	0.852	0	-76.4	-5	-173	143.8	0.91	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 52	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66 Ant 2	Bottom Face	0.852	0	-76.4	-5	-173	103.5	1.66	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n66 Ant 2	Bottom Face	0.852	0	-76.4	-5	-173	136.4	1.53	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n66 Ant 2	Bottom Face	0.852	0	-76.4	-5	-173	346.7	0.91	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				



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	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 53	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66 Ant 2	Edge 4	1.192	0	-6.3	-5.3	-177.3	99.9	1.53	0.02	Not required
	WLAN2.4GHz Ant 6		0.334	0	2	-104.8	-173				
	FR1 n66 Ant 2	Edge 4	1.192	0	-6.3	-5.3	-177.3	93.5	1.62	0.02	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
	WLAN2.4GHz Ant 6	Edge 4	0.334	0	2	-104.8	-173	193.2	0.76	0.00	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
Case 54	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66 Ant 2	Edge 4	1.192	0	-6.3	-5.3	-177.3	96.3	1.77	0.02	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
	FR1 n66 Ant 2	Edge 4	1.192	0	-6.3	-5.3	-177.3	94.0	1.39	0.02	Not required
	WLAN5GHz Ant 7		0.201	0	-11.95	88.28	-170.06				
	WLAN5GHz Ant 7	Edge 4	0.201	0	-11.95	88.28	-170.06	189.8	0.77	0.00	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
Case 55	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n25 Ant 0	Bottom Face	0.58	0	-82.6	-103.5	-178.09	201.3	1.26	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n25 Ant 0	Bottom Face	0.58	0	-82.6	-103.5	-178.09	41.1	1.27	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n25 Ant 0	Bottom Face	0.58	0	-82.6	-103.5	-178.09	128.5	0.63	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 56	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n25 Ant 0	Bottom Face	0.58	0	-82.6	-103.5	-178.09	201.4	1.38	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n25 Ant 0	Bottom Face	0.58	0	-82.6	-103.5	-178.09	67.8	1.25	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n25 Ant 0	Bottom Face	0.58	0	-82.6	-103.5	-178.09	371.3	0.63	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required



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Case 57	NFC Ant 9	Face	0.053	0	44.3	-83	-178.5				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n25 Ant 2	Bottom Face	1.24	0	-75.8	8.3	-177.6	89.8	1.92	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n25 Ant 2	Bottom Face	1.24	0	-75.8	8.3	-177.6	128.4	1.93	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n25 Ant 2	Bottom Face	1.24	0	-75.8	8.3	-177.6	150.9	1.29	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 58	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n25 Ant 2	Bottom Face	1.24	0	-75.8	8.3	-177.6	90.3	2.04	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n25 Ant 2	Bottom Face	1.24	0	-75.8	8.3	-177.6	148.3	1.91	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n25 Ant 2	Bottom Face	1.24	0	-75.8	8.3	-177.6	350.7	1.29	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 59	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n25 Ant 2	Edge 4	1.192	0	-8.7	-173	2.83	188.9	1.53	0.01	Not required
	WLAN2.4GHz Ant 6		0.334	0	2	-104.8	-173				
	FR1 n25 Ant 2	Edge 4	1.192	0	-8.7	-173	2.83	314.7	1.62	0.01	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
	WLAN2.4GHz Ant 6	Edge 4	0.334	0	2	-104.8	-173	193.2	0.76	0.00	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
Case 60	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n25 Ant 2	Edge 4	1.192	0	-8.7	-173	2.83	187.1	1.77	0.01	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
	FR1 n25 Ant 2	Edge 4	1.192	0	-8.7	-173	2.83	313.3	1.39	0.01	Not required
	WLAN5GHz Ant 7		0.201	0	-11.95	88.28	-170.06				
	WLAN5GHz Ant 7	Edge 4	0.201	0	-11.95	88.28	-170.06	189.8	0.77	0.00	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
Case 61	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 0	Bottom Face	0.457	0	-78.5	-116.6	-173	214.5	1.14	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n7 Ant 0	Bottom Face	0.457	0	-78.5	-116.6	-173	35.3	1.14	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				



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	FR1 n7 Ant 0	Bottom Face	0.457	0	-78.5	-116.6	-173	127.4	0.51	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 62	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 0	Bottom Face	0.457	0	-78.5	-116.6	-173	214.6	1.26	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n7 Ant 0	Bottom Face	0.457	0	-78.5	-116.6	-173	60.2	1.13	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n7 Ant 0	Bottom Face	0.457	0	-78.5	-116.6	-173	370.9	0.51	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 63	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 2	Bottom Face	1.244	0	-73	-5.8	-177.6	104.1	1.92	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n7 Ant 2	Bottom Face	1.244	0	-73	-5.8	-177.6	114.1	1.93	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n7 Ant 2	Bottom Face	1.244	0	-73	-5.8	-177.6	140.4	1.30	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 64	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7 Ant 2	Bottom Face	1.244	0	-73	-5.8	-177.6	104.6	2.05	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n7 Ant 2	Bottom Face	1.244	0	-73	-5.8	-177.6	134.2	1.92	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n7 Ant 2	Bottom Face	1.244	0	-73	-5.8	-177.6	351.3	1.30	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				



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	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 65	FR1 n41-HPUE Ant 2	Bottom Face	1.259	0	-73	-5.2	-177.5	103.5	1.94	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n41-HPUE Ant 2	Bottom Face	1.259	0	-73	-5.2	-177.5	114.7	1.95	0.02	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n41-HPUE Ant 2	Bottom Face	1.259	0	-73	-5.2	-177.5	140.8	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 66	FR1 n41-HPUE Ant 2	Bottom Face	1.259	0	-73	-5.2	-177.5	104.0	2.06	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n41-HPUE Ant 2	Bottom Face	1.259	0	-73	-5.2	-177.5	134.7	1.93	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n41-HPUE Ant 2	Bottom Face	1.259	0	-73	-5.2	-177.5	351.2	1.31	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 67	FR1 n41 Ant 1	Bottom Face	1.253	0	67.8	50	-177.8	158.0	1.93	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n41 Ant 1	Bottom Face	1.253	0	67.8	50	-177.8	199.9	1.94	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n41 Ant 1	Bottom Face	1.253	0	67.8	50	-177.8	135.1	1.31	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 68	FR1 n41 Ant 1	Bottom Face	1.253	0	67.8	50	-177.8	153.7	2.06	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n41 Ant 1	Bottom Face	1.253	0	67.8	50	-177.8	199.3	1.93	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n41 Ant 1	Bottom Face	1.253	0	67.8	50	-177.8	379.9	1.31	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				



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	WLAN5GHz Ant 6	Bottom Face	0.683	0	-87.6	97.8	-177.7	222.9	0.86	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 69	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 4	Bottom Face	1.248	0	25	116	-177.7	109.3	1.93	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n41 Ant 4	Bottom Face	1.248	0	25	116	-177.7	241.9	1.94	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n41 Ant 4	Bottom Face	1.248	0	25	116	-177.7	199.9	1.30	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 70	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 4	Bottom Face	1.248	0	25	116	-177.7	101.4	2.05	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n41 Ant 4	Bottom Face	1.248	0	25	116	-177.7	249.1	1.92	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n41 Ant 4	Bottom Face	1.248	0	25	116	-177.7	377.7	1.30	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 71	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 5	Bottom Face	0.725	0	-22	112	-177.7	62.4	1.41	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n41 Ant 5	Bottom Face	0.725	0	-22	112	-177.7	229.0	1.41	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n41 Ant 5	Bottom Face	0.725	0	-22	112	-177.7	206.0	0.78	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 72	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n41 Ant 5	Bottom Face	0.725	0	-22	112	-177.7	54.3	1.53	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				



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	FR1 n41 Ant 5	Bottom Face	0.725	0	-22	112	-177.7	241.0	1.40	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n41 Ant 5	Bottom Face	0.725	0	-22	112	-177.7	367.1	0.78	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 73	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n48 Ant 3	Bottom Face	1.237	0	-70	-42	-177.4	140.4	1.92	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	FR1 n48 Ant 3	Bottom Face	1.237	0	-70	-42	-177.4	78.6	1.92	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	FR1 n48 Ant 3	Bottom Face	1.237	0	-70	-42	-177.4	121.4	1.29	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 74	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n48 Ant 3	Bottom Face	1.237	0	-70	-42	-177.4	140.9	2.04	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	FR1 n48 Ant 3	Bottom Face	1.237	0	-70	-42	-177.4	100.4	1.91	0.03	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	FR1 n48 Ant 3	Bottom Face	1.237	0	-70	-42	-177.4	355.4	1.29	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 75	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n48 Ant 3	Edge 4	1.147	0	-8	30.5	-173	135.7	1.48	0.01	Not required
	WLAN2.4GHz Ant 6		0.334	0	2	-104.8	-173				
	FR1 n48 Ant 3	Edge 4	1.147	0	-8	30.5	-173	57.5	1.57	0.03	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
	WLAN2.4GHz Ant 6	Edge 4	0.334	0	2	-104.8	-173	193.2	0.76	0.00	Not required
	WLAN2.4GHz Ant 7		0.423	0	-10	88	-173				
Case 76	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n48 Ant 3	Edge 4	1.147	0	-8	30.5	-173	131.9	1.72	0.02	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				



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	FR1 n48 Ant 3	Edge 4	1.147	0	-8	30.5	-173	58.0	1.35	0.03	Not required
	WLAN5GHz Ant 7		0.201	0	-11.95	88.28	-170.06				
	WLAN5GHz Ant 7	Edge 4	0.201	0	-11.95	88.28	-170.06	189.8	0.77	0.00	Not required
	Bluetooth Ant 6		0.06	0	5.49	-100.68	-171.06				
	WLAN5GHz Ant 6		0.513	0	1	-109.7	-173				
Case 77	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part270_FR1 n77 Ant 1	Bottom Face	1.168	0	-5	51	-177.4	90.8	1.85	0.03	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part270_FR1 n77 Ant 1	Bottom Face	1.168	0	-5	51	-177.4	171.4	1.86	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part270_FR1 n77 Ant 1	Bottom Face	1.168	0	-5	51	-177.4	142.8	1.22	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 78	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part270_FR1 n77 Ant 1	Bottom Face	1.168	0	-5	51	-177.4	88.9	1.97	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part270_FR1 n77 Ant 1	Bottom Face	1.168	0	-5	51	-177.4	180.6	1.84	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part270_FR1 n77 Ant 1	Bottom Face	1.168	0	-5	51	-177.4	358.8	1.22	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 79	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 1	Bottom Face	1.017	0	-4.6	51	-177.5	91.1	1.70	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27Q_FR1 n77 Ant 1	Bottom Face	1.017	0	-4.6	51	-177.5	171.5	1.70	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27Q_FR1 n77 Ant 1	Bottom Face	1.017	0	-4.6	51	-177.5	142.6	1.07	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 80	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 1	Bottom Face	1.017	0	-4.6	51	-177.5	89.2	1.82	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27Q_FR1 n77 Ant 1	Bottom	1.017	0	-4.6	51	-177.5	180.6	1.69	0.01	Not required



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	WLAN5GHz Ant 7	Face	0.674	0	-19.8	-129	-177.5	359.0	1.07	0.00	Not required
	Part27Q_FR1 n77 Ant 1	Bottom Face	1.017	0	-4.6	51	-177.5				
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 81	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27O_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0	-74.6	-43.2	-177.4	141.2	1.57	0.01	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27O_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0	-74.6	-43.2	-177.4	79.2	1.58	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27O_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0	-74.6	-43.2	-177.4	125.4	0.94	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 82	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27O_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0	-74.6	-43.2	-177.4	141.6	1.70	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27O_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0	-74.6	-43.2	-177.4	101.8	1.57	0.02	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part27O_FR1 n77-HPUE Ant 3	Bottom Face	0.891	0	-74.6	-43.2	-177.4	355.5	0.94	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 83	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0	-72	-44	-177.3	142.2	1.92	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27Q_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0	-72	-44	-177.3	77.4	1.93	0.03	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27Q_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0	-72	-44	-177.3	122.7	1.29	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				



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	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 84	Part27Q_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0	-72	-44	-177.3	142.7	2.05	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27Q_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0	-72	-44	-177.3	99.7	1.92	0.03	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part27Q_FR1 n77-HPUE Ant 3	Bottom Face	1.241	0	-72	-44	-177.3	355.6	1.29	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 85	Part27O_FR1 n77 Ant 4	Bottom Face	1.048	0	10	107.4	-173	93.4	1.73	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27O_FR1 n77 Ant 4	Bottom Face	1.048	0	10	107.4	-173	229.8	1.74	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27O_FR1 n77 Ant 4	Bottom Face	1.048	0	10	107.4	-173	193.5	1.10	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 86	Part27O_FR1 n77 Ant 4	Bottom Face	1.048	0	10	107.4	-173	85.9	1.85	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27O_FR1 n77 Ant 4	Bottom Face	1.048	0	10	107.4	-173	238.3	1.72	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part27O_FR1 n77 Ant 4	Bottom Face	1.048	0	10	107.4	-173	367.4	1.10	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 87	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27O_FR1 n77 Ant 4	Edge 3	1.242	0	-2	-9	-177.3	112.4	1.91	0.02	Not required
	WLAN2.4GHz Ant 6		0.664	0	-20	101.9	-173				
Case 88	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27O_FR1 n77 Ant 4	Edge 3	1.242	0	-2	-9	-177.3	98.1	1.89	0.03	Not required
	Bluetooth Ant 6		0.049	0	-22	-105	-177				



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Case 89	WLAN5GHz Ant 6		0.597	0	-16.5	99.6	-170				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0	9.76	106.93	-175.59	93.0	1.45	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0	9.76	106.93	-175.59	229.2	1.45	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0	9.76	106.93	-175.59	193.1	0.82	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 90	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0	9.76	106.93	-175.59	85.6	1.57	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0	9.76	106.93	-175.59	237.8	1.44	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part27Q_FR1 n77 Ant 4	Bottom Face	0.767	0	9.76	106.93	-175.59	369.7	0.82	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 91	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0	-6	106	-177.7	77.2	1.37	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0	-6	106	-177.7	225.1	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0	-6	106	-177.7	195.6	0.74	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 92	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0	-6	106	-177.7	69.8	1.49	0.03	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0	-6	106	-177.7	235.4	1.36	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.687	0	-6	106	-177.7	368.2	0.74	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required



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	Bluetooth Ant 6	Face	0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6	Face	0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6	Bottom Face	0.683	0	-87.6	97.8	-177.7	78.9	0.73	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
Case 93	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.604	0	2.5	113	-177.5	86.6	1.28	0.02	Not required
	WLAN2.4GHz Ant 6		0.68	0	-82.8	97.8	-177.7				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.604	0	2.5	113	-177.5	233.6	1.29	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.604	0	2.5	113	-177.5	200.4	0.66	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	217.4	1.37	0.01	Not required
	WLAN2.4GHz Ant 7		0.687	0	-43.5	-116	-177.3				
	WLAN2.4GHz Ant 6	Bottom Face	0.68	0	-82.8	97.8	-177.7	221.0	0.73	0.00	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
Case 94	WLAN2.4GHz Ant 7	Bottom Face	0.687	0	-43.5	-116	-177.3	93.8	0.74	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.604	0	2.5	113	-177.5	78.7	1.41	0.02	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.604	0	2.5	113	-177.5	243.0	1.28	0.01	Not required
	WLAN5GHz Ant 7		0.674	0	-19.8	-129	-177.5				
	Part27Q_FR1 n77 Ant 5	Bottom Face	0.604	0	2.5	113	-177.5	371.4	0.66	0.00	Not required
	NFC Ant 9		0.053	0	-74.3	17	173				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	236.7	1.48	0.01	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	NFC Ant 9	Bottom Face	0.053	0	44.3	-83	-178.5	222.9	0.86	0.00	Not required
	Bluetooth Ant 6		0.121	0	-75.8	104.8	-177				
	WLAN5GHz Ant 6		0.683	0	-87.6	97.8	-177.7				
	WLAN5GHz Ant 7	Bottom Face	0.674	0	-19.8	-129	-177.5	78.9	0.73	0.01	Not required
	NFC Ant 9		0.053	0	44.3	-83	-178.5				

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

Test Engineer : Martin Li, Varus Wang, Ricky Gu, Light Wang, Damon Zhu

18. Uncertainty Assessment

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Uncertainty Budget (Frequency band: 4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.6	N	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1.8	1.8
Probe Positioning	0.2	N	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	3.5	3.5
Phantom and Device Errors							
Conductivity (meas.)	2.8	N	1	0.78	0.71	2.2	2.0
Conductivity (temp.)	3.7	R	1.732	0.78	0.71	1.7	1.5
Phantom Permittivity	14.0	R	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	3.6	3.6
DUT Modulation	4.6	R	1.732	1	1	2.7	2.7
Time-average SAR	2.6	R	1.732	1	1	1.5	1.5
DUT drift	2.5	N	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	0.0	0.0
Correction to the SAR results							
Deviation to Target	1.9	N	1	1	0.84	1.9	1.6
SAR scaling	0.0	R	1.732	1	1	0.0	0.0
Combined Std. Uncertainty						14.6%	14.5%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.2%	29.0%

SAR Uncertainty Budget for frequency range 4MHz to 10GHz according to IEC/IEEE

62209-1528:2020

19. References

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- [12] IEC/IEEE 62209-1528:2020, “Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)”, Oct. 2020

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