



## Appendix G. Supplemental Antenna Tuner Tests Results

**General Note:**

1. This device implements antenna tuning techniques in the several frequency band and list as below. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
2. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
3. The number of supported tune codes is different for each frequency band as shown in the following table.
4. Dynamic antenna tuning mechanism is available at Ant. 0 / 2 and for its < 3GHz LTE and NR band, details are illustrated in the operational description, all supported tuning states for each band are tested and it's verified that auto-tune state results in the highest SAR configuration.
5. For Product specific condition supplemental test results only performed required test band according part1 SAR report
6. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).

| Antenna configuration                      |   |
|--|---|
| Transmit switching diversity configuration | Support transmit antenna and band   |
| TX 0                                       | ANT 0: LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n26/n71<br>ANT 2: LTE B2/B4/B25/B66, NR n2/n25/n66 |
| TX 1                                       | ANT 0: LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66                               |

| Antenna      | Band           | Number of tuning states |
|--------------|----------------|-------------------------|
| Ant0(LB)     | LTE B7         | 75                      |
|              | LTE B12(B17)   | 24                      |
|              | LTE B13        | 19                      |
|              | LTE B14        | 27                      |
|              | LTE B25(B2)    | 72                      |
|              | LTE B26(B5)    | 71                      |
|              | LTE B30        | 27                      |
|              | LTE B41(B38)   | 77                      |
|              | LTE B66(B4)    | 80                      |
|              | LTE B71        | 23                      |
|              | 5G NR n7       | 26                      |
|              | 5G NR n12      | 24                      |
|              | 5G NR n25(n2)  | 25                      |
|              | 5G NR n26(n5)  | 24                      |
|              | 5G NR n30      | 27                      |
|              | 5G NR n41(n38) | 27                      |
|              | 5G NR n66      | 26                      |
|              | 5G NR n71      | 23                      |
| Ant2 (MB/HB) | LTE B25(B2)    | 4                       |
|              | LTE B66(B4)    | 6                       |
|              | 5G NR n25(n2)  | 2                       |
|              | 5G NR n66      | 2                       |



<Supplemental Head SAR results>

| Head (Ant2)      | RF exposure position |              |         |               |                        |                        |                       |                    |                                    |       | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|----------------------|--------------|---------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | Band                 | Mode         | Channel | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) |       | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |
|                  | LTE Band 7           | 20M_QPSK_1_0 | Middle  | 21100         | Left Cheek             | 0.210                  | 0.269                 | 12                 | 45                                 | 0.448 | 0.259   | 0.277 | 0.266 | 0.263 | 0.277 | 0.088 | 0.212 | 0.313 | 0.275 | 0.099 | 0.227 | 0.212 | 0.328 | 0.371 | 0.209 | 0.234 | 0.221 | 0.178 | 0.362 | 0.383 | 0.335 | 0.374 | 0.301 | 0.205 | 0.358 |       |
| LTE Band 12      | 10M_QPSK_1_0         | Middle       | 23095   | Left Cheek    | 0.221                  | 0.246                  | 17                    | 18                 | 0.292                              | 0.147 | 0.108   | 0.164 | 0.086 | 0.060 | 0.234 | 0.103 | 0.001 | 0.233 | 0.125 | 0.118 | 0.093 | 0.074 | 0.001 | 0.001 | 0.067 | 0.111 | 0.292 | 0.087 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.103 |       |
| LTE Band 13      | 10M_QPSK_1_0         | Middle       | 23230   | Left Cheek    | 0.243                  | 0.282                  | 8                     | 13                 | 0.367                              | 0.177 | 0.194   | 0.099 | 0.118 | 0.248 | 0.076 | 0.251 | 0.249 | 0.001 | 0.085 | 0.001 | 0.001 | 0.367 | 0.156 | 0.001 | 0.068 | 0.001 | 0.140 | 0.143 |       |       |       |       |       |       |       |       |
| LTE Band 14      | 10M_QPSK_1_0         | Middle       | 23330   | Left Cheek    | 0.248                  | 0.287                  | 25                    | 10                 | 0.361                              | 0.156 | 0.001   | 0.001 | 0.111 | 0.258 | 0.190 | 0.071 | 0.069 | 0.239 | 0.361 | 0.084 | 0.065 | 0.217 | 0.340 | 0.216 | 0.138 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.098 | 0.078 | 0.176 | 0.258 |       |
| LTE Band 25      | 20M_QPSK_1_0         | Middle       | 26340   | Left Cheek    | 0.077                  | 0.091                  | 21                    | 56                 | 0.135                              | 0.001 | 0.001   | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| LTE Band 26      | 15M_QPSK_1_0         | Middle       | 26865   | Left Cheek    | 0.286                  | 0.361                  | 40                    | 41                 | 0.411                              | 0.161 | 0.266   | 0.117 | 0.255 | 0.129 | 0.067 | 0.095 | 0.075 | 0.117 | 0.161 | 0.265 | 0.195 | 0.092 | 0.055 | 0.053 | 0.078 | 0.078 | 0.285 | 0.114 | 0.091 | 0.001 | 0.001 | 0.001 | 0.001 | 0.074 | 0.252 |       |
| LTE Band 30      | 10M_QPSK_1_0         | Middle       | 27710   | Left Cheek    | 0.071                  | 0.091                  | 13                    | 24                 | 0.153                              | 0.064 | 0.079   | 0.086 | 0.095 | 0.092 | 0.001 | 0.001 | 0.001 | 0.106 | 0.110 | 0.102 | 0.001 | 0.001 | 0.001 | 0.111 | 0.122 | 0.109 | 0.091 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.099 | 0.153 | 0.096 |       |
| LTE Band 41_HPUE | 20M_QPSK_1_0         | Middle       | 41490   | Left Cheek    | 0.091                  | 0.118                  | 34                    | 28                 | 0.166                              | 0.116 | 0.092   | 0.001 | 0.001 | 0.120 | 0.001 | 0.001 | 0.119 | 0.117 | 0.114 | 0.001 | 0.001 | 0.105 | 0.118 | 0.112 | 0.104 | 0.001 | 0.001 | 0.001 | 0.070 | 0.071 | 0.115 | 0.117 | 0.114 | 0.001 |       |       |
| LTE Band 66      | 20M_QPSK_1_0         | Middle       | 132322  | Right Cheek   | 0.084                  | 0.105                  | 23                    | 5                  | 0.147                              | 0.001 | 0.001   | 0.001 | 0.081 | 0.086 | 0.096 | 0.049 | 0.086 | 0.077 | 0.057 | 0.042 | 0.001 | 0.059 | 0.079 | 0.094 | 0.082 | 0.096 | 0.001 | 0.001 | 0.051 | 0.073 | 0.063 | 0.091 | 0.094 | 0.001 |       |       |
| LTE Band 71      | 20M_QPSK_1_0         | Middle       | 133297  | Left Cheek    | 0.181                  | 0.217                  | 10                    | 11                 | 0.286                              | 0.096 | 0.056   | 0.120 | 0.064 | 0.058 | 0.113 | 0.193 | 0.155 | 0.001 | 0.047 | 0.286 | 0.116 | 0.062 | 0.001 | 0.001 | 0.001 | 0.001 | 0.196 | 0.108 | 0.060 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |       |       |

| Head (Ant2) | RF exposure position |              |         |               |                        |                        |                       |                    |                                    |       | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |   |
|-------------|----------------------|--------------|---------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|-------|---|-------|-------|-------|-------|---|
|             | Band                 | Mode         | Channel | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) |       | 1   | 2     | 3     | 4     | 5     | 6 |
|             | LTE Band 25          | 20M_QPSK_1_0 | Middle  | 26590         | Right Cheek            | 0.646                  | 0.791                 | 3                  | 1                                  | 0.986 | 0.986   | 0.337 | 0.894 | 0.339 |       |   |
| LTE Band 66 | 20M_QPSK_1_0         | Middle       | 132572  | Right Cheek   | 0.436                  | 0.506                  | 1                     | 1                  | 0.731                              | 0.731 | 0.317   | 0.724 | 0.278 | 0.714 | 0.277 |   |



| RF exposure position |              |              |               |                        |                        |                       |                    |                                    |       | Average Value of Time Sweep Single Point SAR (W/kg) |              |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|----------------------|--------------|--------------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|-------|---|--------------|--------|--------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Band                 | Mode         | Channel      | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) |       | 1   | 2            | 3      | 4      | 5          | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |       |       |       |       |       |       |       |       |       |       |       |  |
| Head (Ant0)          | FR1 n7       | 50M_QPSK_1_1 | Middle        | 507000                 | Left Cheek             | 0.268                 | 0.313              | 24                                 | 1     | 0.463   | 0.463        | 0.084  | 0.151  | 0.098      | 0.103 | 0.221 | 0.195 | 0.189 | 0.119 | 0.183 | 0.135 | 0.140 | 0.128 | 0.236 | 0.149 | 0.107 | 0.170 | 0.129 | 0.051 | 0.146 | 0.219 | 0.139 | 0.218 | 0.193 | 0.157 |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 26           |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 0.218        |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 1            | 2      | 3      | 4          | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 0.107        | 0.086  | 0.080  | 0.108      | 0.012 | 0.106 | 0.152 | 0.071 | 0.125 | 0.119 | 0.194 | 0.124 | 0.069 | 0.001 | 0.001 | 0.123 | 0.158 | 0.319 | 0.060 | 0.001 | 0.020 | 0.013 | 0.001 | 0.172 |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 1            | 2      | 3      | 4          | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 0.165        | 0.133  | 0.076  | 0.081      | 0.177 | 0.011 | 0.039 | 0.038 | 0.055 | 0.039 | 0.057 | 0.006 | 0.001 | 0.001 | 0.001 | 0.001 | 0.097 | 0.005 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       |   | 1            | 2      | 3      | 4          | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 0.222                | 0.267        | 0.121        | 0.171         | 0.001                  | 0.001                  | 0.177                 | 0.205              | 0.126                              | 0.229 | 0.233   | 0.114        | 0.061  | 0.240  | 0.233      | 0.206 | 0.001 | 0.166 | 0.085 | 0.222 | 0.177 | 0.135 | 0.093 | 0.120 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| FR1 n30              | 10M_QPSK_1_1 | Middle       | 462000        | Left Cheek             | 0.150                  | 0.202                 | 11                 | 24                                 | 0.288 | 1   | 2            | 3      | 4      | 5          | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.143   | 0.196        | 0.121  | 0.148  | 0.106      | 0.083 | 0.047 | 0.070 | 0.079 | 0.144 | 0.162 | 0.067 | 0.028 | 0.076 | 0.154 | 0.149 | 0.114 | 0.152 | 0.054 | 0.050 | 0.013 | 0.032 | 0.088 | 0.288 | 0.152 |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 26  | 27           |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.012   | 0.138        |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 1   | 2            | 3      | 4      | 5          | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.379   | 0.141        | 0.155  | 0.186  | 0.284      | 0.126 | 0.117 | 0.134 | 0.227 | 0.231 | 0.205 | 0.264 | 0.130 | 0.133 | 0.071 | 0.291 | 0.183 | 0.204 | 0.243 | 0.176 | 0.194 | 0.074 | 0.133 | 0.124 | 0.182 |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 26  | 27           |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.223   | 0.086        |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| FR1 n66              | 40M_QPSK_1_1 | Middle       | 349000        | Right Cheek            | 0.110                  | 0.157                 | 21                 | 22                                 | 0.194 | 1   | 2            | 3      | 4      | 5          | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.011   | 0.176        | 0.136  | 0.041  | 0.006      | 0.097 | 0.047 | 0.052 | 0.001 | 0.044 | 0.039 | 0.114 | 0.072 | 0.166 | 0.001 | 0.001 | 0.101 | 0.003 | 0.133 | 0.051 | 0.001 | 0.194 | 0.136 | 0.061 | 0.056 |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 26  |              |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.060   |              |        |        |            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 1   | 2            | 3      | 4      | 5          | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | 0.006   | 0.106        | 0.090  | 0.084  | 0.148      | 0.073 | 0.363 | 0.085 | 0.001 | 0.047 | 0.166 | 0.206 | 0.032 | 0.041 | 0.061 | 0.001 | 0.001 | 0.194 | 0.038 | 0.150 | 0.011 | 0.061 | 0.001 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                      |              |              |               |                        |                        |                       |                    |                                    |       | FR1 n71   | 20M_QPSK_1_1 | Middle | 136100 | Left Cheek | 0.224 | 0.271 | 5     | 7     | 0.363 | 0.006 | 0.106 | 0.090 | 0.084 | 0.148 | 0.073 | 0.363 | 0.085 | 0.001 | 0.047 | 0.166 | 0.206 | 0.032 | 0.041 | 0.061 | 0.001 | 0.001 | 0.194 | 0.038 | 0.150 | 0.011 | 0.061 | 0.001 |       |       |       |       |  |

| RF exposure position |              |        |         |               |                        |                        |                       |                    |                                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |
|----------------------|--------------|--------|---------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|---|-------|
| Head (Ant2)          | Band         | Mode   | Channel | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) | 1   | 2     |
| FR1 n25              | 40M_QPSK_1_1 | Middle | 376500  | Right Cheek   | 0.671                  | 0.835                  | 1                     | 2                  | 0.912                              | 1   | 2     |
|                      |              |        |         |               |                        |                        |                       |                    |                                    | 0.859   | 0.912 |
| FR1 n66              | 40M_QPSK_1_1 | Middle | 349000  | Right Cheek   | 0.430                  | 0.495                  | 2                     | 1                  | 0.693                              | 1   | 2     |
|                      |              |        |         |               |                        |                        |                       |                    |                                    | 0.693   | 0.369 |



<Supplemental Body SAR results>

| Body (Ant1) | RF exposure position |              |         |               |                        |                        |                       |                    |                                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |
|-------------|----------------------|--------------|---------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
|             | Band                 | Mode         | Channel | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |       |  |  |
|             | LTE Band 7           | 20M_QPSK_1_0 | Middle  | 21100         | Front                  | 0.736                  | 0.924                 | 12                 | 58                                 | 1.030   | 0.767 | 0.743 | 0.732 | 0.749 | 0.741 | 0.418 | 0.650 | 0.816 | 0.730 | 0.415 | 0.692 | 0.625 | 0.807 | 0.883 | 0.646 | 0.649 | 0.609 | 0.613 | 0.869 | 0.822 | 0.789 | 0.773 | 0.746 | 0.582 | 0.765 |  |  |
| LTE Band 12 | 10M_QPSK_1_0         | Middle       | 23095   | Left Side     | 0.428                  | 0.477                  | 17                    | 6                  | 0.614                              | 0.339   | 0.235 | 0.283 | 0.252 | 0.187 | 0.614 | 0.270 | 0.140 | 0.547 | 0.312 | 0.283 | 0.217 | 0.177 | 0.096 | 0.139 | 0.173 | 0.303 | 0.504 | 0.233 | 0.001 | 0.001 | 0.107 | 0.114 | 0.280 |       |       |  |  |
| LTE Band 13 | 10M_QPSK_1_0         | Middle       | 23230   | Left Side     | 0.415                  | 0.481                  | 8                     | 13                 | 0.622                              | 0.286   | 0.295 | 0.161 | 0.200 | 0.365 | 0.121 | 0.365 | 0.306 | 0.096 | 0.150 | 0.083 | 0.088 | 0.622 | 0.261 | 0.069 | 0.122 | 0.088 | 0.230 | 0.233 |       |       |       |       |       |       |       |  |  |
| LTE Band 14 | 10M_QPSK_1_0         | Middle       | 23330   | Bottom Side   | 0.411                  | 0.475                  | 25                    | 14                 | 0.608                              | 0.374   | 0.412 | 0.186 | 0.164 | 0.468 | 0.283 | 0.101 | 0.104 | 0.437 | 0.376 | 0.109 | 0.099 | 0.426 | 0.608 | 0.285 | 0.148 | 0.001 | 0.001 | 0.001 | 0.001 | 0.061 | 0.137 | 0.138 | 0.224 | 0.351 |       |  |  |
| LTE Band 25 | 20M_QPSK_1_0         | Middle       | 26340   | Bottom Side   | 0.722                  | 0.741                  | 21                    | 10                 | 0.985                              | 0.320   | 0.878 | 0.815 | 0.749 | 0.884 | 0.853 | 0.595 | 0.507 | 0.657 | 0.985 | 0.932 | 0.910 | 0.598 | 0.787 | 0.411 | 0.595 | 0.939 | 0.270 | 0.659 | 0.642 | 0.549 | 0.671 | 0.815 | 0.935 | 0.447 |       |  |  |
| LTE Band 26 | 15M_QPSK_1_0         | Middle       | 26865   | Back          | 0.568                  | 0.717                  | 40                    | 41                 | 0.769                              | 0.143   | 0.287 | 0.798 | 0.880 | 0.762 | 0.624 | 0.850 | 0.607 | 0.556 | 0.459 | 0.588 | 0.751 | 0.911 | 0.533 | 0.473 | 0.478 | 0.269 | 0.178 | 0.660 | 0.636 | 0.528 | 0.480 | 0.473 | 0.260 | 0.316 |       |  |  |
| LTE Band 30 | 10M_QPSK_1_0         | Middle       | 27710   | Front         | 0.788                  | 0.932                  | 13                    | 24                 | 1.030                              | 0.616   | 0.417 | 0.852 | 0.768 | 0.878 | 0.645 | 0.633 | 0.429 | 0.413 | 0.562 | 0.582 | 0.728 | 0.446 | 0.354 | 0.257 | 0.534 | 0.959 | 0.311 | 0.477 | 0.621 | 0.384 | 0.658 |       |       |       |       |  |  |
| LTE Band 41 | 20M_QPSK_1_0         | Middle       | 39750   | Bottom Side   | 0.755                  | 0.784                  | 34                    | 28                 | 1.050                              | 0.338   | 0.556 | 0.242 | 0.542 | 0.272 | 0.146 | 0.189 | 0.159 | 0.224 | 0.378 | 0.605 | 0.424 | 0.189 | 0.111 | 0.105 | 0.181 | 0.594 | 0.615 | 0.248 | 0.172 | 0.001 | 0.074 | 0.081 | 0.173 | 0.498 |       |  |  |
| LTE Band 66 | 20M_QPSK_1_0         | Middle       | 132572  | Bottom Side   | 0.816                  | 0.820                  | 23                    | 80                 | 1.190                              | 0.382   | 0.335 | 0.545 | 0.192 | 0.157 | 0.070 | 0.068 | 0.194 | 0.213 | 0.312 | 0.585 | 0.558 | 0.252 | 0.064 | 0.590 | 0.769 | 0.255 | 0.057 | 0.217 | 0.185 | 0.598 | 0.354 | 0.260 | 0.231 | 0.335 |       |  |  |
| LTE Band 71 | 20M_QPSK_1_0         | Middle       | 133297  | Left Side     | 0.463                  | 0.555                  | 10                    | 7                  | 0.635                              | 0.537   | 0.194 | 0.329 | 0.601 | 0.077 | 0.090 | 0.161 | 0.153 | 0.309 | 0.623 | 0.257 | 0.502 | 0.276 | 0.174 | 0.001 | 0.001 | 0.226 | 0.497 | 0.501 | 0.346 | 0.155 |       |       |       |       |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.611   | 0.798 | 0.551 | 0.601 | 0.757 | 0.508 | 0.372 | 0.508 | 0.670 | 0.787 | 0.646 | 0.477 | 0.198 | 0.394 | 0.694 | 0.852 | 0.828 | 0.581 | 0.382 | 0.469 | 0.195 | 0.308 | 0.627 | 1.030 | 0.608 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.165   | 0.472 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.907   | 0.723 | 0.584 | 0.634 | 0.943 | 0.575 | 0.436 | 0.927 | 0.914 | 0.893 | 0.608 | 0.633 | 0.824 | 0.922 | 0.878 | 0.814 | 0.567 | 0.507 | 0.303 | 0.550 | 0.556 | 0.900 | 0.917 | 0.893 | 0.507 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.588   | 0.410 | 1.050 | 0.805 | 0.458 | 0.607 | 0.956 | 0.602 | 0.411 | 0.439 | 0.781 | 0.941 | 0.915 | 0.863 | 0.582 | 0.541 | 0.542 | 1.020 | 0.870 | 0.913 | 0.846 | 0.815 | 0.690 | 0.333 | 0.308 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.285   | 0.827 | 0.833 | 0.339 | 1.030 | 0.828 | 0.439 | 0.859 | 0.868 | 0.949 | 0.939 | 0.581 | 0.499 | 0.601 | 0.568 | 0.802 | 0.940 | 0.822 | 0.554 | 0.237 | 0.300 | 0.289 | 0.681 | 0.686 | 0.845 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.549   | 0.125 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.962   | 0.884 | 0.937 | 0.616 | 0.688 | 1.060 | 0.811 | 0.588 | 0.447 | 0.642 | 1.100 | 0.393 | 0.562 | 0.510 | 0.763 | 0.796 | 0.972 | 0.640 | 1.110 | 1.010 | 0.374 | 0.330 | 0.463 | 0.603 | 0.833 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.551   | 0.451 | 0.293 | 0.868 | 0.992 | 1.060 | 0.653 | 0.744 | 1.010 | 0.727 | 0.532 | 0.410 | 0.696 | 0.866 | 1.130 | 1.050 | 1.150 | 0.437 | 0.464 | 0.567 | 0.757 | 0.814 | 1.010 | 1.140 | 0.374 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.803   | 0.528 | 0.815 | 0.957 | 0.962 | 1.001 | 1.117 | 0.638 | 0.775 | 1.043 | 0.855 | 0.517 | 0.478 | 1.070 | 1.164 | 0.996 | 1.150 | 0.497 | 0.690 | 0.831 | 1.020 | 0.556 | 1.110 | 1.130 | 0.451 |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.516   | 0.917 | 0.424 | 0.950 | 1.190 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |
|             |                      |              |         |               |                        |                        |                       |                    |                                    | 0.273   | 0.153 | 0.330 | 0.216 | 0.168 | 0.315 | 0.635 | 0.397 | 0.111 | 0.163 | 0.490 | 0.289 | 0.194 | 0.069 | 0.068 | 0.111 | 0.101 | 0.386 | 0.231 | 0.139 | 0.001 | 0.001 | 0.099 |       |       |       |  |  |

| Body (Ant2) | RF exposure position |              |         |         |               |                        |                        |                       |                    |                                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |       |
|-------------|----------------------|--------------|---------|---------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|---|-------|-------|-------|-------|-------|
|             | Band                 | Mode         | Channel | Setting | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) | 1   | 2     | 3     | 4     | 5     | 6     |
|             | LTE Band 25          | 20M_QPSK_1_0 | Middle  | 26340   | 190           | Right Side             | 0.438                  | 0.440                 | 3                  | 3                                  | 0.774   | 0.564 | 0.208 | 0.774 | 0.198 |       |
| LTE Band 66 | 20M_QPSK_1_0         | Middle       | 132572  | 190     | Right Side    | 0.362                  | 0.401                  | 1                     | 1                  | 0.689                              | 0.689   | 0.270 | 0.611 | 0.234 | 0.494 | 0.212 |



| Body (Ant0) | RF exposure position |              |         |             |               |                        |                        |                       |                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------|----------------------|--------------|---------|-------------|---------------|------------------------|------------------------|-----------------------|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             | Band                 | Mode         | Channel |             | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg)                  | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |
|             | FR1 n7               | 50M_QPSK_1_1 | Middle  | 507000      | Front         | 0.771                  | 0.960                  | 24                    | 10                 | 1.030   | 0.455 | 0.498 | 0.434 | 0.503 | 0.675 | 0.482 | 0.381 | 0.497 | 0.623 | 1.030 | 0.403 | 0.531 | 0.333 | 0.488 | 0.585 | 0.655 | 0.367 | 0.429 | 0.462 | 0.608 | 0.617 | 0.644 | 0.463 | 0.301 | 0.392 |
| FR1 n12     | 15M_QPSK_1_1         | Middle       | 141500  | Left Side   | 0.426         | 0.520                  | 15                     | 6                     | 0.589              | 0.061   | 0.361 | 0.368 | 0.044 | 0.156 | 0.589 | 0.398 | 0.121 | 0.311 | 0.290 | 0.148 | 0.159 | 0.316 | 0.184 | 0.127 | 0.143 | 0.103 | 0.328 | 0.188 | 0.051 | 0.123 | 0.262 | 0.042 | 0.205 |       |       |
| FR1 n25     | 40M_QPSK_1_1         | Middle       | 376500  | Bottom Side | 0.739         | 0.847                  | 24                     | 11                    | 0.964              | 0.554   | 0.697 | 0.596 | 0.470 | 0.674 | 0.377 | 0.528 | 0.303 | 0.542 | 0.678 | 0.964 | 0.320 | 0.364 | 0.448 | 0.297 | 0.177 | 0.518 | 0.449 | 0.496 | 0.409 | 0.464 | 0.120 | 0.163 | 0.394 | 0.321 |       |
| FR1 n26     | 20M_QPSK_1_1         | Middle       | 166300  | Bottom Side | 0.546         | 0.673                  | 12                     | 10                    | 0.701              | 0.418   | 0.469 | 0.028 | 0.091 | 0.224 | 0.079 | 0.139 | 0.324 | 0.060 | 0.701 | 0.439 | 0.014 | 0.048 | 0.444 | 0.357 | 0.196 | 0.063 | 0.227 | 0.242 | 0.580 | 0.232 | 0.340 | 0.128 | 0.368 |       |       |
| FR1 n30     | 10M_QPSK_1_1         | Middle       | 462000  | Back        | 0.714         | 0.961                  | 11                     | 24                    | 0.958              | 0.570   | 0.784 | 0.484 | 0.592 | 0.422 | 0.331 | 0.186 | 0.281 | 0.315 | 0.575 | 0.647 | 0.267 | 0.112 | 0.303 | 0.614 | 0.595 | 0.457 | 0.607 | 0.214 | 0.201 | 0.050 | 0.127 | 0.352 | 0.958 | 0.608 |       |
| FR1 n41     | 100M_QPSK_1_1        | Middle       | 518598  | Front       | 0.815         | 0.978                  | 24                     | 1                     | 1.110              | 1.110   | 0.429 | 0.472 | 0.567 | 0.865 | 0.383 | 0.356 | 0.408 | 0.691 | 0.704 | 0.624 | 0.804 | 0.398 | 0.406 | 0.217 | 0.887 | 0.559 | 0.622 | 0.741 | 0.537 | 0.591 | 0.226 | 0.407 | 0.379 | 0.556 |       |
| FR1 n66     | 40M_QPSK_1_1         | Middle       | 349000  | Front       | 0.717         | 0.901                  | 21                     | 21                    | 0.949              | 0.638   | 0.783 | 0.819 | 0.522 | 0.592 | 0.754 | 0.559 | 0.469 | 0.285 | 0.535 | 0.696 | 0.905 | 0.822 | 0.846 | 0.236 | 0.387 | 0.426 | 0.482 | 0.656 | 0.778 | 0.949 | 0.278 | 0.578 | 0.506 | 0.697 |       |
| FR1 n71     | 20M_QPSK_1_1         | Middle       | 136100  | Left Side   | 0.409         | 0.494                  | 5                      | 7                     | 0.586              | 0.250   | 0.278 | 0.084 | 0.216 | 0.169 | 0.402 | 0.586 | 0.115 | 0.088 | 0.085 | 0.447 | 0.402 | 0.153 | 0.073 | 0.202 | 0.095 | 0.008 | 0.337 | 0.048 | 0.297 | 0.013 | 0.021 | 0.036 |       |       |       |

| Body (Ant2) | RF exposure position |              |         |        |               |                        |                        |                       |                    |                                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |
|-------------|----------------------|--------------|---------|--------|---------------|------------------------|------------------------|-----------------------|--------------------|------------------------------------|---|-------|
|             | Band                 | Mode         | Channel |        | Test Position | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) | 1   | 2     |
|             | FR1 n25              | 20M_QPSK_1_0 | Middle  | 376500 | Right Side    | 0.449                  | 0.528                  | 1                     | 2                  | 0.731                              | 0.433   | 0.731 |
| FR1 n66     | 40M_QPSK_1_1         | Middle       | 349000  | Back   | 0.451         | 0.615                  | 2                      | 1                     | 0.726              | 0.726                              | 0.359   |       |



<Supplemental Product Specific SAR results>

| Extremity (Ant0) | RF exposure position |        |         |               |                         |                         |                       |                    |                                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
|------------------|----------------------|--------|---------|---------------|-------------------------|-------------------------|-----------------------|--------------------|------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|
|                  | Band                 | Mode   | Channel | Test Position | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
| LTE Band 7       | 20M_QPSK_1_0         | Middle | 20850   | Bottom Side   | 1.450                   | 1.727                   | 12                    | 52                 | 4.05                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 2.660   | 3.244 | 3.295 | 3.450 | 3.004 | 1.131 | 2.815 | 2.729 | 2.901 | 1.112 | 3.004 | 2.712 | 1.957 | 2.969 | 2.918 | 3.193 | 2.695 | 1.210 | 2.283 | 2.128 | 2.472 | 2.592 | 3.364 | 2.557 | 3.004 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49    | 50    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 3.433   | 2.798 | 3.416 | 2.918 | 3.021 | 2.592 | 3.124 | 2.884 | 2.678 | 2.678 | 2.781 | 2.712 | 3.072 | 1.802 | 2.557 | 2.884 | 3.227 | 2.695 | 1.600 | 1.871 | 2.214 | 3.158 | 2.712 | 3.175 | 2.523 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 51  | 52    | 53    | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 70    | 71    | 72    | 73    | 74    | 75    |  |  |  |  |  |  |  |
| 2.952            | 4.051                | 2.832  | 3.295   | 2.952         | 1.085                   | 2.987                   | 2.678                 | 2.626              | 2.952                              | 2.729   | 3.107 | 2.832 | 1.991 | 2.094 | 2.283 | 2.763 | 3.090 | 3.450 | 2.660 | 2.214 | 1.565 | 2.472 | 2.712 | 2.386 |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
| LTE Band 25      | 20M_QPSK_1_0         | Middle | 26340   | Bottom Side   | 1.890                   | 2.336                   | 21                    | 53                 | 5.62                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 1.641   | 2.918 | 2.900 | 3.150 | 3.329 | 2.631 | 2.542 | 2.309 | 2.631 | 3.312 | 3.097 | 2.775 | 1.808 | 2.703 | 2.094 | 2.434 | 3.222 | 0.607 | 2.166 | 2.309 | 2.506 | 2.900 | 2.810 | 3.419 | 0.988 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49    | 50    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 0.367   | 0.850 | 3.687 | 3.168 | 2.667 | 2.918 | 3.133 | 2.381 | 2.667 | 2.309 | 2.721 | 2.989 | 3.294 | 1.969 | 1.731 | 1.987 | 1.507 | 1.113 | 2.810 | 2.685 | 1.969 | 1.729 | 2.023 | 0.632 | 0.811 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 51  | 52    | 53    | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 70    | 71    | 72    |       |       |       |  |  |  |  |  |  |  |
| 1.692            | 1.568                | 5.621  | 3.347   | 3.258         | 2.792                   | 3.115                   | 2.452                 | 2.417              | 2.971                              | 3.061   | 3.061 | 2.613 | 2.309 | 0.814 | 1.672 | 3.204 | 2.130 | 2.828 | 3.240 | 1.067 | 1.468 |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
| LTE Band 30      | 10M_QPSK_1_0         | Middle | 27710   | Bottom Side   | 2.100                   | 2.484                   | 13                    | 16                 | 6.57                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 5.656   | 6.387 | 6.150 | 6.110 | 6.407 | 5.992 | 5.636 | 6.190 | 6.209 | 5.893 | 6.031 | 6.288 | 4.973 | 5.517 | 6.071 | 6.565 | 6.447 | 5.278 | 5.893 | 6.150 | 4.712 | 5.205 | 5.656 | 6.288 | 5.292 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  | 27    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 5.221   | 4.608 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
| LTE Band 66      | 20M_QPSK_1_0         | Middle | 132572  | Bottom Side   | 2.000                   | 2.466                   | 23                    | 1                  | 4.83                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 4.832   | 4.094 | 4.019 | 3.974 | 3.944 | 4.004 | 4.079 | 3.583 | 3.507 | 3.914 | 3.583 | 2.935 | 3.462 | 3.598 | 4.079 | 4.064 | 4.094 | 2.363 | 3.402 | 3.613 | 2.815 | 2.664 | 3.477 | 3.733 | 4.034 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49    | 50    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 2.363   | 2.092 | 1.852 | 4.125 | 4.109 | 3.944 | 3.884 | 2.303 | 4.064 | 3.959 | 3.477 | 3.492 | 3.989 | 4.064 | 3.869 | 3.522 | 3.839 | 3.176 | 3.537 | 3.733 | 4.140 | 2.619 | 3.161 | 3.357 | 2.845 |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 51  | 52    | 53    | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 70    | 71    | 72    | 73    | 74    | 75    |  |  |  |  |  |  |  |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 3.673   | 1.852 | 2.484 | 2.499 | 3.808 | 3.778 | 3.658 | 3.628 | 3.643 | 3.266 | 3.703 | 3.071 | 3.146 | 3.733 | 3.447 | 3.206 | 3.462 | 2.800 | 3.568 | 3.748 | 3.793 | 2.109 | 3.148 | 3.462 | 3.116 |  |  |  |  |  |  |  |
| 76               | 77                   | 78     | 79      | 80            |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
| 3.552            | 3.658                | 2.002  | 2.679   | 3.206         |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |

| Extremity (Ant0) | RF exposure position |        |         |               |                         |                         |                       |                    |                                    | Average Value of Time Sweep Single Point SAR (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|----------------------|--------|---------|---------------|-------------------------|-------------------------|-----------------------|--------------------|------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | Band                 | Mode   | Channel | Test Position | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) | Default-Tuner (State) | Auto-Tuner (State) | Auto-Tuner Single Point SAR (W/kg) |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| FR1 n7           | 50M_QPSK_1_1         | Middle | 507000  | Bottom Side   | 1.640                   | 2.041                   | 24                    | 2                  | 5.00                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 3.860   | 5.001 | 3.787 | 4.928 | 4.006 | 4.273 | 4.151 | 4.273 | 4.030 | 4.273 | 3.884 | 3.981 | 3.739 | 4.491 | 2.937 | 3.569 | 4.443 | 4.879 | 4.030 | 2.554 | 2.865 | 3.471 | 4.540 | 3.544 | 4.977 |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3.666            |                      |        |         |               |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| FR1 n25          | 40M_QPSK_1_1         | Middle | 376500  | Bottom Side   | 1.800                   | 2.451                   | 24                    | 2                  | 5.14                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 3.707   | 5.138 | 3.221 | 3.464 | 3.729 | 2.780 | 2.979 | 2.449 | 3.310 | 3.332 | 3.817 | 2.824 | 1.913 | 2.890 | 1.880 | 1.571 | 3.442 | 3.376 | 2.559 | 2.153 | 2.184 | 0.514 | 1.022 | 2.306 | 1.646 |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| FR1 n30          | 10M_QPSK_1_1         | Middle | 462000  | Bottom Side   | 1.720                   | 2.315                   | 11                    | 16                 | 5.43                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 4.473   | 5.408 | 4.564 | 4.518 | 5.089 | 4.518 | 3.811 | 5.294 | 5.340 | 4.222 | 5.066 | 4.838 | 3.742 | 4.541 | 5.112 | 5.431 | 5.363 | 3.537 | 4.587 | 4.518 | 3.081 | 4.153 | 4.541 | 4.655 | 4.153 |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  | 27    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2.761            | 4.153                |        |         |               |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| FR1 n66          | 40M_QPSK_1_1         | Middle | 349000  | Bottom Side   | 1.790                   | 2.248                   | 21                    | 18                 | 5.39                               | 1   | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 4.770   | 4.842 | 4.458 | 4.650 | 1.858 | 4.985 | 4.842 | 4.170 | 3.547 | 4.961 | 4.410 | 4.554 | 3.571 | 4.362 | 3.787 | 3.955 | 3.907 | 5.393 | 2.263 | 2.924 | 3.715 | 2.565 | 4.650 | 1.793 | 3.087 |
|                  |                      |        |         |               |                         |                         |                       |                    |                                    | 26  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2.517            |                      |        |         |               |                         |                         |                       |                    |                                    |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



Appendix G. Supplemental SAR Tests Results

SAR test result

- 1. The test data is selected according to the worst case SAR configuration per cellular technology.
2. The test data is to demonstrate the device is in compliance with FCC requirements at 25mm when all power reduction mechanisms are OFF. The worst case body SAR at 10mm was used for simultaneous transmission SAR analysis since they are more conservative than the 25mm SAR.

Table with 15 columns: Band, Mode, Test Position, Gap (mm), Antenna, 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). Rows include GSM1900\_Ant 0, WCDMA II\_Ant 0, LTE Band 7\_Ant 0, FR1 n25\_Ant 0, WLAN2.4GHz, WLAN5GHz, and Bluetooth.