

**CAICT** No. 24T04Z100342-004

### EX3DV4 - SN:3846

May 31, 2023

| UID   | Rev | Communication System Name   | Group    | PAR (dB) | Unc <sup>E</sup> k = |
|-------|-----|---|----------|----------|----------------------|
| 0307  | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)               | WiMAX    | 14.49    | ±9.6                 |
| 10308 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)                          | WiMAX    | 14.46    | ±9.6                 |
| 0309  | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)           | WIMAX    | 14.58    | ±9.6                 |
| 0310  | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)            | WIMAX    | 14.57    | ±9.6                 |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)  | LTE-FDD  | 6.06     | ±9.6                 |
| 10313 | AAA | IDEN 1:3  | IDEN     | 10.51    | ±9.6                 |
| 10314 | AAA | IDEN 1:6  | IDEN     | 13.48    | ±9.6                 |
|       |     | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)                       | WLAN     | 1.71     | ±9.6                 |
| 10315 | AAB |   | WLAN     | 8.36     | ±9.6                 |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)                   | WLAN     | 8.36     | ±9.6                 |
| 10317 | AAD | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)                         |          | 10.00    |                      |
| 10352 | AAA | Pulse Waveform (200Hz, 10%)   | Generic  |          | ±9.6                 |
| 10353 | AAA | Pulse Waveform (200Hz, 20%)   | Generic  | 6.99     | ±9.6                 |
| 10354 | AAA | Pulse Waveform (200Hz, 40%)   | Generic  | 3.98     | ±9.6                 |
| 10355 | AAA | Pulse Waveform (200Hz, 60%)   | Generic  | 2.22     | ±9.6                 |
| 10356 | AAA | Pulse Waveform (200Hz, 80%)   | Generic  | 0.97     | ±9.6                 |
| 10387 | AAA | QPSK Waveform, 1 MHz  | Generic  | 5.10     | ±9.6                 |
| 10388 | AAA | QPSK Waveform, 10 MHz   | Generic  | 5.22     | ±9.6                 |
| 10396 | AAA | 64-QAM Waveform, 100 kHz  | Generic  | 6.27     | ±9.6                 |
| 10399 | AAA | 64-QAM Waveform, 40 MHz   | Generic  | 6.27     | ±9.6                 |
| 10400 | AAE | IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)                            | WLAN     | 8.37     | ±9.6                 |
| 10401 | AAE | IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)                            | WLAN     | 8.60     | ±9.6                 |
| 10402 | AAE | IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)                            | WLAN     | 8.53     | ±9.6                 |
| 10402 | AAB | CDMA2000 (1xEV-DO, Rev. 0)  | CDMA2000 | 3.76     | ±9.6                 |
|       | AAB |   | CDMA2000 | 3.77     | ±9.6                 |
| 10404 |     | CDMA2000 (1xEV-DO, Rev. A)  | CDMA2000 | 5.22     |                      |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate  |          |          | ±9.6                 |
| 10410 | AAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | LTE-TDD  | 7.82     | ±9.6                 |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40 MHz   | Generic  | 8.54     | ±9.6                 |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | WLAN     | 1.54     | ±9.6                 |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | WLAN     | 8.23     | ±9.6                 |
| 10417 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | WLAN     | 8.23     | ±9.6                 |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)  | WLAN     | 8.14     | ±9.6                 |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) | WLAN     | 8.19     | ±9.6                 |
| 10422 | AAC | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | WLAN     | 8.32     | ±9.6                 |
| 10423 | AAC | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | WLAN     | 8.47     | ±9.6                 |
| 10424 | AAC | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | WLAN     | 8.40     | ±9.6                 |
| 10425 | AAC | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | WLAN     | 8.41     | ±9.6                 |
| 10426 | AAC | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | WLAN     | 8.45     | ±9.6                 |
| 10427 | AAC | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                                  | WLAN     | 8.41     | ±9.6                 |
| 10427 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)  | LTE-FDD  | 8.28     | ±9.6                 |
| 10430 | AAE | LTE-FDD (OFDMA, 5MHz, E-TM 3.1)   | LTE-FDD  | 8.38     | ±9.0                 |
|       |     |   |          | 8.34     |                      |
| 10432 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   | LTE-FDD  |          | ±9.6                 |
| 10433 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)   | LTE-FDD  | 8.34     | ±9.6                 |
| 10434 | AAB | W-CDMA (BS Test Model 1, 64 DPCH)   | WCDMA    | 8.60     | ±9.6                 |
| 10435 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | ±9.6                 |
| 10447 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                                  | LTE-FDD  | 7.56     | ±9.                  |
| 10448 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)                                  | LTE-FDD  | 7.53     | ±9.                  |
| 10449 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)                                  | LTE-FDD  | 7.51     | ±9.                  |
| 10450 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.48     | ±9.                  |
| 10451 | AAB | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                                 | WCDMA    | 7.59     | ±9.                  |
| 10453 | AAE | Validation (Square, 10 ms, 1 ms)  | Test     | 10.00    | ±9.                  |
| 10456 | AAC | IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)                           | WLAN     | 8.63     | ±9.                  |
| 10457 | AAB | UMTS-FDD (DC-HSDPA)   | WCDMA    | 6.62     | ±9.0                 |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)  | CDMA2000 | 6.55     | ±9.0                 |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)  | CDMA2000 | 8.25     | ±9.                  |
| 10460 | AAB | UMTS-FDD (WCDMA, AMR)   | WCDMA    | 2.39     | ±9.                  |
| 10461 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 7.82     | ±9.                  |
|       | AAC |   | LTE-TDD  |          | -                    |
| 10462 | -   | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)               |          | 8.30     | ±9.                  |
| 10463 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.56     | ±9.                  |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | ±9.                  |
| 10465 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | ±9.                  |
| 10466 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.57     | ±9.                  |
| 10467 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | ±9.6                 |
| 10468 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | ±9.                  |
| 10469 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.56     | ±9.0                 |
|       | -   | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | ±9.0                 |
| 10470 | AAG |   |          |          |                      |

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| UID   | Rev | Communication System Name  | Group   | PAR (dB) | Unc <sup>E</sup> k = |
|-------|-----|--|---------|----------|----------------------|
| 0472  | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.57     | ±9.6                 |
| 0473  | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.82     | ±9.6                 |
| 0474  | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.32     | ±9.6                 |
| 10475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.57     | ±9.6                 |
| 10477 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.32     | ±9.6                 |
| 10478 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.57     | ±9.6                 |
| 10479 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 7.74     | ±9.6                 |
| 10480 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.18     | ±9.6                 |
| 10481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.45     | ±9.6                 |
| 10482 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 7.71     | ±9.6                 |
| 10483 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.39     | ±9.6                 |
| 10484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.47     | ±9.6                 |
| 10485 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 7.59     | ±9.6                 |
| 10486 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.38     | ±9.6                 |
| 10487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.60     | ±9.6                 |
| 10488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.70     | ±9.6                 |
| 10489 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.31     | ±9.6                 |
| 10490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±9.6                 |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.74     | ±9.6                 |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.41     | ±9.6                 |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.55     | ±9.6                 |
| 10494 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.74     | ±9.6                 |
| 10495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.37     | ±9.6                 |
| 10496 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±9.6                 |
| 10497 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.67     | ±9.6                 |
| 10498 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.40     | ±9.6                 |
| 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.67     | ±9.6                 |
| 10500 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.44     |                      |
| 10501 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.44     | ±9.6                 |
| 10502 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.72     | ±9.6                 |
| 10503 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.31     | ±9.6                 |
| 10504 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±9.6                 |
| 10505 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.74     | ±9.6                 |
| 10506 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.36     | ±9.6                 |
| 10507 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.55     | ±9.6                 |
| 10508 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 7.99     | ±9.6                 |
| 10509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.49     | ±9.6                 |
| 10510 |     | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.51     | ±9.6                 |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)<br>LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74     | ±9.0                 |
| 10512 | -   |  | LTE-TDD | 8.42     | ±9.0                 |
| 10513 | _   |  | LTE-TDD | 8.45     | ±9.0                 |
| 10514 |     |  | WLAN    | 1.58     | ±9.0                 |
| 10515 | -   | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)<br>IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)                 | WLAN    | 1.57     | ±9.0                 |
| 10516 |     |  | WLAN    | 1.58     | ±9.0                 |
| 10517 | -   |  | WLAN    | 8.23     | ±9.0                 |
| 10518 | _   |  | WLAN    | 8.39     | ±9.                  |
| 10519 | -   |  | WLAN    | 8.12     | ±9.                  |
| 10520 | -   |  | WLAN    | 7.97     | ±9.                  |
| 10521 | -   |  | WLAN    | 8.45     | ±9.                  |
| 10522 | -   |  | WLAN    | 8.08     | ±9.                  |
| 10524 | _   |  | WLAN    | 8.27     | ±9.                  |
| 10524 |     |  | WLAN    | 8.36     | ±9.                  |
| 10525 |     |  | WLAN    | 8.42     | ±9.                  |
| 10520 |     |  | WLAN    | 8.21     | ±9.                  |
| 10528 | _   |  | WLAN    | 8.36     | ±9.                  |
| 10520 | _   |  | WLAN    | 8.36     | ±9.                  |
| 10531 | -   |  | WLAN    | 8.43     | ±9.                  |
| 10532 |     |  | WLAN    | 8.29     | ±9.                  |
| 10533 |     |  | WLAN    | 8.38     | ±9.                  |
| 10534 | -   |  | WLAN    | 8.45     | ±9.                  |
| 10535 |     |  | WLAN    | 8.45     | ±9.                  |
| 10536 | _   |  | WLAN    | 8.32     | ±9.                  |
| 10537 | _   |  | WLAN    | 8.44     | ±9.                  |
| 10538 | -   |  | WLAN    | 8.54     | ±9.                  |
|       | AAC |  | WLAN    | 8.39     | ±9.                  |

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| UID   | Rev   | Communication System Name                                       | Group | PAR (dB) | $Unc^{E} k =$ |
|-------|-------|---|-------|----------|---------------|
| 0541  | AAC   | IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)              | WLAN  | 8.46     | ±9.6          |
|       |       | IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)              | WLAN  | 8.65     | ±9.6          |
| 0542  | AAC   | IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)              | WLAN  | 8.65     | ±9.6          |
| 0543  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)              | WLAN  | 8.47     | ±9.6          |
| )544  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)              | WLAN  | 8.55     | ±9.6          |
| 545   | AAC   |   | WLAN  | 8.35     | ±9.6          |
| 0546  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)              | WLAN  | 8.49     | ±9.6          |
| 0547  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)              | WLAN  | 8.37     | ±9.6          |
| 0548  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)              | WLAN  | 8.38     | ±9.6          |
| 0550  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)              | WLAN  | 8.50     | ±9.6          |
| 0551  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)              | WLAN  | 8.42     | ±9.6          |
| 0552  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)              | WLAN  | 8.45     | ±9.6          |
| 0553  | AAC   | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)              | WLAN  | 8.48     | ±9.6          |
| 0554  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)             | WLAN  | 8.47     | ±9.6          |
| 0555  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)             | WLAN  | 8.50     | ±9.6          |
| 0556  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)             | WLAN  | 8.52     | ±9.6          |
| 0557  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)             | WLAN  | 8.61     | ±9.6          |
| 0558  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)             | WLAN  | 8.73     | ±9.6          |
| 0560  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)             | WLAN  | 8.56     | ±9.6          |
| 0561  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)             |       | 8.69     | ±9.6          |
| 0562  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)             | WLAN  | 8.59     |               |
| 0563  | AAD   | IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)             | WLAN  |          | ±9.6          |
| 0564  | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | WLAN  | 8.25     | ±9.6          |
| 0565  | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN  | 8.45     | ±9.6          |
| 10566 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN  | 8.13     | ±9.6          |
| 10567 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN  | 8.00     | ±9.6          |
| 10568 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN  | 8.37     | ±9.6          |
| 10569 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN  | 8.10     | ±9.6          |
| 10570 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN  | 8.30     | ±9.6          |
| 10571 | AAA   | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | WLAN  | 1.99     | ±9.6          |
| 10572 | AAA   | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | WLAN  | 1.99     | ±9.6          |
| 10573 | AAA   | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | WLAN  | 1.98     | ±9.6          |
| 10574 | AAA   | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | WLAN  | 1.98     | ±9.6          |
| 10575 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | WLAN  | 8.59     | ±9.6          |
| 10576 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | WLAN  | 8.60     | ±9.6          |
| 10577 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN  | 8.70     | ±9.6          |
| 10578 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN  | 8.49     | ±9.6          |
| 10579 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN  | 8.36     | ±9.6          |
| 10580 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN  | 8.76     | ±9.6          |
| 10581 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN  | 8.35     | ±9.6          |
| 10582 | AAA   | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN  | 8.67     | ±9.6          |
| 10583 | AAC   | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | WLAN  | 8.59     | ±9.           |
| 10584 | AAC   | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | WLAN  | 8.60     | ±9.           |
| 10585 | AAC   | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | WLAN  | 8.70     | ±9.           |
| 10586 | AAC   | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | WLAN  | 8.49     | ±9.           |
| 10587 | AAC   | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | WLAN  | 8.36     | ±9.           |
| 10588 |       | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | WLAN  | 8.76     | ±9.           |
| 10589 | AAC   | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | WLAN  | 8.35     | ±9.           |
| 10590 | -     | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | WLAN  | 8.67     | ±9.           |
| 10591 |       | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)          | WLAN  | 8.63     | ±9.           |
| 10592 | -     | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)          | WLAN  | 8.79     | ±9.           |
| 10593 |       | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)          | WLAN  | 8.64     | ±9.           |
| 10594 |       | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)          | WLAN  | 8.74     | ±9.           |
| 10595 |       | IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)          | WLAN  | 8.74     | ±9.           |
| 10596 | -     | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)          | WLAN  | 8.71     | ±9.           |
| 10597 |       | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)          | WLAN  | 8.72     | ±9.           |
| 10598 | -     | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)          | WLAN  | 8.50     | ±9.           |
| 10599 |       | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)          | WLAN  | 8.79     | ±9.           |
| 10600 |       | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)          | WLAN  | 8.88     | ±9.           |
| 10601 |       | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)          | WLAN  | 8.82     | ±9.           |
| 10602 |       |   | WLAN  | 8.94     | ±9.           |
| 10603 | -     |   | WLAN  | 9.03     | ±9.           |
| 10604 |       | IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)          | WLAN  | 8.76     | ±9.           |
| 10605 | -     |   | WLAN  | 8.97     | ±9.           |
| 10600 |       |   | WLAN  | 8.82     | ±9.           |
| 10607 |       |   | WLAN  | 8.64     | ±9.           |
| 10001 | B AAC |   | WLAN  | 8.77     | ±9            |

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| UID   | Rev | Communication System Name                              | Group     | PAR (dB) | Unc <sup>E</sup> k = |
|-------|-----|--|-----------|----------|----------------------|
| 0609  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.57     | ±9.6                 |
| 0610  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.78     | ±9.6                 |
| 0611  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.70     | ±9.6                 |
| 0612  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)     | WLAN      | 8.77     | ±9.6                 |
| 0613  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)     | WLAN      | 8.94     | ±9.6                 |
| 0614  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.59     | ±9.6                 |
| 0615  | AAC | IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)     | WLAN      | 8.82     | ±9.6                 |
| 0616  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)     | WLAN      | 8.82     | ±9.6                 |
| 0617  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)     | WLAN      | 8.81     | ±9.6                 |
| 0618  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.58     | ±9.6                 |
| 0619  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.86     | ±9.6                 |
| 0620  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.87     | ±9.6                 |
| 0621  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)     | WLAN      | 8.77     | ±9.6                 |
| 0622  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)     | WLAN      | 8.68     | ±9.6                 |
| 0623  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.82     | ±9.6                 |
| 0624  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)     | WLAN      | 8.96     | ±9.6                 |
| 0625  | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)     | WLAN      | 8.96     | ±9.6                 |
| 0626  | AAC | IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)     | WLAN      | 8.83     | ±9.6                 |
| 0627  | AAC | IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)     | WLAN      | 8.88     | ±9.6                 |
| 0628  | AAC | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.71     | ±9.6                 |
| 0629  | AAC | IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.85     | ±9.6                 |
| 0630  | AAC | IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.72     | ±9.6                 |
| 0631  | AAC | IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)     | WLAN      | 8.81     | ±9.6                 |
| 10632 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)     | WLAN      | 8.74     | ±9.6                 |
| 10633 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.83     | ±9.6                 |
| 10634 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)     | WLAN      | 8.80     | ±9.6                 |
| 10635 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)     | WLAN      | 8.81     | ±9.6                 |
| 10636 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)    | WLAN      | 8.83     | ±9.6                 |
| 10637 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)    | WLAN      | 8.79     | ±9.6                 |
| 10638 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)    | WLAN      | 8.86     | ±9.6                 |
| 10639 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)    | WLAN      | 8.85     | ±9.6                 |
| 10640 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)    | WLAN      | 8.98     | ±9.6                 |
| 10641 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)    | WLAN      | 9.06     | ±9.6                 |
| 10642 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)    | WLAN      | 9.06     | ±9.6                 |
| 10643 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)    | WLAN      | 8.89     | ±9.6                 |
| 10644 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)    | WLAN      | 9.05     | ±9.6                 |
| 10645 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)    | WLAN      | 9.11     | ±9.6                 |
| 10646 | AAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | LTE-TDD   | 11.96    | ±9.6                 |
| 10647 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TDD   | 11.96    | ±9.6                 |
| 10648 | AAA | CDMA2000 (1x Advanced)                                 | CDMA2000  | 3.45     | ±9.                  |
| 10652 | AAF | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | LTE-TDD   | 6.91     | ±9.                  |
| 10653 | AAF | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD   | 7.42     | ±9.0                 |
| 10654 | AAE | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD   | 6.96     | ±9.                  |
| 10655 | AAF | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD   | 7.21     | ±9.                  |
| 10658 | AAB | Pulse Waveform (200Hz, 10%)                            | Test      | 10.00    | ±9.                  |
| 10659 | AAB | Pulse Waveform (200Hz, 20%)                            | Test      | 6.99     | ±9.                  |
| 10660 | AAB | Pulse Waveform (200Hz, 40%)                            | Test      | 3.98     | ±9.                  |
| 10661 | AAB | Pulse Waveform (200Hz, 60%)                            | Test      | 2.22     | ±9.                  |
| 10662 | AAB | Pulse Waveform (200Hz, 80%)                            | Test      | 0.97     | ±9.                  |
| 10670 | AAA | Bluetooth Low Energy                                   | Bluetooth | 2.19     | ±9.                  |
| 10671 | AAC | IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)          | WLAN      | 9.09     | ±9.                  |
| 10672 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)          | WLAN      | 8.57     | ±9.                  |
| 10673 | AAC | IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)          | WLAN      | 8.78     | ±9.                  |
| 10674 | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)          | WLAN      | 8.74     | ±9.                  |
| 10675 | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)          | WLAN      | 8.90     | ±9.                  |
| 10676 | AAC | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)          | WLAN      | 8.77     | ±9.                  |
| 10677 | AAC | IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)          | WLAN      | 8.73     | ±9.                  |
| 10678 | AAC | IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)          | WLAN      | 8.78     | ±9.                  |
| 10679 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)          | WLAN      | 8.89     | ±9.                  |
| 10680 | AAC | IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)          | WLAN      | 8.80     | ±9.                  |
| 10681 | AAC | IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)         | WLAN      | 8.62     | ±9.                  |
| 10682 | AAC | IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)         | WLAN      | 8.83     | ±9.                  |
| 10683 | AAC | IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)          | WLAN      | 8.42     | ±9.                  |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)          | WLAN      | 8.26     | ±9.                  |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)          | WLAN      | 8.33     | ±9.                  |
| 10686 | AAC | IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)          | WLAN      | 8.28     | ±9.                  |

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| UID   | Rev | Communication System Name                      | Group | PAR (dB) | Unc <sup>E</sup> k = |
|-------|-----|--|-------|----------|----------------------|
| 10687 | AAC | IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)  | WLAN  | 8.45     | ±9.6                 |
| 0688  | AAC | IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                 |
| 0689  | AAC | IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)  | WLAN  | 8.55     | ±9.6                 |
| 0690  | AAC | IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                 |
| 0691  | AAC | IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)  | WLAN  | 8.25     | ±9.6                 |
| 0692  | AAC | IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                 |
| 0693  | AAC | IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle) | WLAN  | 8.25     | ±9.6                 |
| 0694  | AAC | IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle) | WLAN  | 8.57     | ±9.6                 |
| 10695 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.78     | ±9.6                 |
| 0696  | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.91     | ±9.6                 |
| 0697  | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.61     | ±9.6                 |
| 0698  | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.89     | ±9.6                 |
| 0699  | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.82     | ±9.6                 |
| 0700  | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.73     | ±9.6                 |
| 0701  | AAC | IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.86     | ±9.6                 |
| 0702  | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.70     | ±9.6                 |
| 0703  | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.82     | ±9.6                 |
| 0704  | AAC | IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.56     | ±9.6                 |
| 0705  | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.69     | ±9.6                 |
| 0706  | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.66     | ±9.6                 |
| 0707  | AAC | IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)  | WLAN  | 8.32     | ±9.6                 |
| 0708  | AAC | IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)  | WLAN  | 8.55     | ±9.6                 |
| 10709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)  | WLAN  | 8.33     | ±9.6                 |
| 0710  | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                 |
| 10711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)  | WLAN  | 8.39     | ±9.6                 |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)  | WLAN  | 8.67     | ±9.6                 |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)  | WLAN  | 8.33     | ±9.6                 |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)  | WLAN  | 8.26     | ±9.6                 |
| 10715 | AAC | IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)  | WLAN  | 8.45     | ±9.6                 |
| 10716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)  | WLAN  | 8.30     | ±9.6                 |
| 10717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle) | WLAN  | 8.48     | ±9.6                 |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle) | WLAN  | 8.24     | ±9.6                 |
| 10719 | AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.81     | ±9.6                 |
| 10720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.87     | ±9.6                 |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.76     | ±9.6                 |
| 10722 | AAC | IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.55     | ±9.6                 |
| 10723 | AAC | IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.70     | ±9.6                 |
| 10724 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.90     | ±9.6                 |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.74     | ±9.6                 |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.72     | ±9.6                 |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.66     | ±9.6                 |
| 10728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.65     | ±9.6                 |
| 10729 | AAC | IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.64     | ±9.6                 |
| 10730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.67     | ±9.6                 |
| 10731 | AAC | IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)  | WLAN  | 8.42     | ±9.6                 |
| 10732 | AAC | IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)  | WLAN  | 8.46     | ±9.0                 |
| 10733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)  | WLAN  | 8.40     | ±9.0                 |
| 10734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)  | WLAN  | 8.25     | ±9.0                 |
| 10735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)  | WLAN  | 8.33     | ±9.                  |
| 10736 | AAC | IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)  | WLAN  | 8.27     | ±9.                  |
| 10737 | AAC | IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)  | WLAN  | 8.36     | ±9.                  |
| 10738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)  | WLAN  | 8.42     | ±9.                  |
| 10739 | AAC | IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)  | WLAN  | 8.29     | ±9.                  |
| 10740 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)  | WLAN  | 8.48     | ±9.                  |
| 10741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) | WLAN  | 8.40     | ±9.                  |
| 10742 | AAC | IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) | WLAN  | 8.43     | ±9.                  |
| 10743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) | WLAN  | 8.94     | ±9.                  |
| 10744 | AAC | IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) | WLAN  | 9.16     | ±9.                  |
| 10745 | AAC | IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) | WLAN  | 8.93     | ±9.                  |
| 10745 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN  | 9.11     | ±9.                  |
| 10740 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN  | 9.04     | ±9.                  |
| 10747 | AAC | IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) | WLAN  | 8.93     | ±9.                  |
| 10748 | AAC | IEEE 802.11ax (160 MHz, MCSS, sope duty cycle) | WLAN  | 8.90     | ±9.                  |
| 10749 | AAC | IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle) | WLAN  | 8.79     | ±9.                  |
| 10750 |     | IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) | WLAN  | 8.82     | ±9.                  |
| 10751 | AAC |  |       |          |                      |

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#### EX3DV4 - SN:3846

| UID   | Rev | Communication System Name                       | Group         | PAR (dB) | Unc <sup>E</sup> k = |
|-------|-----|---|---------------|----------|----------------------|
| 0753  | AAC | IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle) | WLAN          | 9.00     | ±9.6                 |
| 0754  | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) | WLAN          | 8.94     | ±9.6                 |
| 0755  | AAC | IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)  | WLAN          | 8.64     | ±9.6                 |
| 0756  | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)  | WLAN          | 8.77     | ±9.6                 |
|       | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)  | WLAN          | 8.77     | ±9.6                 |
| 0757  |     | IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)  | WLAN          | 8.69     | ±9.6                 |
| 0758  | AAC |   | WLAN          | 8.58     | ±9.6                 |
| 0759  | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)  | WLAN          | 8.49     | ±9.6                 |
| 0760  | AAC | IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)  | WLAN          | 8.58     | ±9.6                 |
| 0761  | AAC | IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)  | WLAN          | 8.49     | ±9.6                 |
| 0762  | AAC | IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)  | WLAN          | 8.53     | ±9.6                 |
| 0763  | AAC | IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)  |               | 8.54     | ±9.6                 |
| 0764  | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)  | WLAN          |          | ±9.6                 |
| 0765  | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) |               | 8.54     |                      |
| 10766 | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) | WLAN          | 8.51     | ±9.6                 |
| 10767 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)      | 5G NR FR1 TDD | 7.99     | ±9.6                 |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.01     | ±9.6                 |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.01     | ±9.6                 |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.02     | ±9.6                 |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.02     | ±9.6                 |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.23     | ±9.6                 |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.03     | ±9.6                 |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.02     | ±9.6                 |
| 10775 | AAD | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.31     | ±9.6                 |
| 10776 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.30     | ±9.6                 |
| 10776 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.30     | ±9.6                 |
|       |     | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.6                 |
| 10778 | AAD |   | 5G NR FR1 TDD | 8.42     | ±9.6                 |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.38     | ±9.6                 |
| 10780 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.38     | ±9.6                 |
| 10781 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   |               |          | ±9.6                 |
| 10782 | AAD | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.43     | -                    |
| 10783 | AAE | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31     | ±9.6                 |
| 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.29     | ±9.6                 |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.40     | ±9.6                 |
| 10786 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.35     | ±9.6                 |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.44     | ±9.6                 |
| 10788 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39     | ±9.6                 |
| 10789 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.37     | ±9.6                 |
| 10790 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39     | ±9.6                 |
| 10791 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 7.83     | ±9.6                 |
| 10792 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.92     | ±9.6                 |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.95     | ±9.6                 |
| 10794 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82     | ±9.6                 |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.84     | ±9.6                 |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82     | ±9.6                 |
|       |     | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 8.01     | ±9.6                 |
| 10797 | AAD |   | 5G NR FR1 TDD | 7.89     | ±9.0                 |
| 10798 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.93     | ±9.6                 |
| 10799 |     | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)     |               | -        | -                    |
| 10801 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89     | ±9.0                 |
| 10802 | -   | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.87     | ±9.0                 |
| 10803 | -   | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93     | ±9.0                 |
| 10805 |     | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.                  |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.37     | ±9.                  |
| 10809 |     | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | -        | ±9.                  |
| 10810 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.                  |
| 10812 | -   | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35     | ±9.                  |
| 10817 | -   | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35     | ±9.                  |
| 10818 | -   | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.34     | ±9.                  |
| 10819 | -   | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD |          | ±9.                  |
| 10820 | -   | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD |          | ±9.                  |
|       | -   | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz)  | 5G NR FR1 TDD | -        | ±9.                  |
| 10821 | -   |   | 5G NR FR1 TDD |          | ±9.                  |
| 10822 |     | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | -        | ±9.                  |
| 10823 |     |   | 5G NR FR1 TDD | -        | -                    |
| 10824 | -   |   |               |          | ±9.                  |
| 10825 | -   | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD |          | ±9.                  |
| 10827 | _   |   | 5G NR FR1 TDD |          | ±9.                  |
| 10828 | AAD | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.43     | ±9.                  |

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| UID   | Rev | Communication System Name                            | Group         | PAR (dB) | Unc <sup>E</sup> k = |
|-------|-----|--|---------------|----------|----------------------|
| 0829  | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 8.40     | ±9.6                 |
| 0830  | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.63     | ±9.6                 |
| 0831  | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.73     | ±9.6                 |
| 0832  | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.74     | ±9.6                 |
| 0833  | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70     | ±9.6                 |
| 0834  | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.75     | ±9.6                 |
| 0835  | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70     | ±9.6                 |
| 0836  | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.66     | ±9.6                 |
| 0837  | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.68     | ±9.6                 |
|       |     | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70     | ±9.6                 |
| 0839  | AAD |  | 5G NR FR1 TDD | 7.67     | ±9.6                 |
| 0840  | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.71     | ±9.6                 |
| 0841  | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         | 5G NR FR1 TDD | 8.49     | ±9.6                 |
| 0843  | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.34     | ±9.6                 |
| 0844  | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.41     | ±9.6                 |
| 0846  | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD |          |                      |
| 0854  | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       |               | 8.34     | ±9.6                 |
| 0855  | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36     | ±9.6                 |
| 0856  | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37     | ±9.6                 |
| 0857  | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.35     | ±9.6                 |
| 0858  | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36     | ±9.6                 |
| 0859  | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34     | ±9.6                 |
| 0860  | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41     | ±9.6                 |
| 0861  | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.40     | ±9.6                 |
| 0863  | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41     | ±9.6                 |
| 0864  | AAD | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37     | ±9.6                 |
| 0865  | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41     | ±9.6                 |
| 0866  | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 0868  | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.89     | ±9.6                 |
| 0869  | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 5.75     | ±9.6                 |
| 0870  | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)  | 5G NR FR2 TDD | 5.86     | ±9.6                 |
| 0871  | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 KHz)    | 5G NR FR2 TDD | 5.75     | ±9.6                 |
|       | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52     | ±9.6                 |
| 0872  | -   |  | 5G NR FR2 TDD | 6.61     | ±9.6                 |
| 0873  | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 6.65     | -                    |
| 0874  | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) |               |          | ±9.6                 |
| 0875  | _   | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78     | ±9.6                 |
| 0876  | -   | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.39     | ±9.6                 |
| 10877 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 7.95     | ±9.6                 |
| 10878 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41     | ±9.6                 |
| 10879 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.12     | ±9.6                 |
| 10880 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.38     | ±9.6                 |
| 10881 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75     | ±9.6                 |
| 0882  | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.96     | ±9.6                 |
| 10883 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57     | ±9.6                 |
| 10884 |     | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 6.53     | ±9.6                 |
| 10885 | -   | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 6.61     | ±9.6                 |
| 10886 | _   | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)  | 5G NR FR2 TDD | 6.65     | ±9.6                 |
| 10887 | _   | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)         | 5G NR FR2 TDD | 7.78     | ±9.6                 |
| 10888 | _   | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 8.35     | ±9.6                 |
| 10889 |     | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)        | 5G NR FR2 TDD | 8.02     | ±9.6                 |
| 0890  |     | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 8.40     | ±9.6                 |
| 0891  | _   | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)        | 5G NR FR2 TDD | 8.13     | ±9.6                 |
| 10892 |     | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 KHz)        | 5G NR FR2 TDD | 8.41     | ±9.6                 |
| 10892 |     | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.66     | ±9.0                 |
|       |     |  | 5G NR FR1 TDD | 5.67     | ±9.0                 |
| 10898 | -   | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       |               | -        | -                    |
| 10899 | -   | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67     | ±9.0                 |
| 10900 | -   | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 10901 | -   | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.0                 |
| 10902 | _   | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 10903 | _   | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 10904 | -   | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 10905 |     | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 10906 |     | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                 |
| 10907 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.78     | ±9.6                 |
| 10908 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93     | ±9.6                 |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.96     | ±9.6                 |
|       | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83     | ±9.6                 |

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| UID   | Rev | Communication System Name                           | Group         | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|---|---------------|----------|------------------------|
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93     | ±9.6                   |
| 10912 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84     | ±9.6                   |
| 10913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84     | ±9.6                   |
| 10914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.85     | ±9.6                   |
| 10915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83     | ±9.6                   |
| 10916 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87     | ±9.6                   |
| 10917 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94     | ±9.6                   |
| 10918 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86     | ±9.6                   |
| 10919 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.86     | ±9.6                   |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.87     | ±9.6                   |
| 10921 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                   |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.82     | ±9.6                   |
| 10923 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                   |
| 10924 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                   |
| 10925 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95     | ±9.6                   |
| 10926 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                   |
| 10927 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94     | ±9.6                   |
| 10928 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52     | ±9.6                   |
| 10929 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52     | ±9.6                   |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52     | ±9.6                   |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                   |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                   |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                   |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                   |
| 10935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                   |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90     | ±9.6                   |
| 10937 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77     | ±9.6                   |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90     | ±9.6                   |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82     | ±9.6                   |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89     | ±9.6                   |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83     | ±9.6                   |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85     | ±9.6                   |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95     | ±9.6                   |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81     | ±9.6                   |
| 10945 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.85     | ±9.6                   |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.83     | ±9.6                   |
| 10947 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87     | ±9.6                   |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94     | ±9.6                   |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87     | ±9.6                   |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94     | ±9.6                   |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92     | ±9.6                   |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25     | ±9.6                   |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15     | ±9.6                   |
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23     | ±9.6                   |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42     | ±9.6                   |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14     | ±9.6                   |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31     | ±9.6                   |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61     | ±9.6                   |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33     | ±9.6                   |
| 10960 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32     | ±9.6                   |
| 10961 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36     | ±9.6                   |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40     | ±9.6                   |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55     | ±9.6                   |
| 10964 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29     | ±9.6                   |
| 10965 | -   | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37     | ±9.6                   |
| 10966 | -   | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55     | ±9.6                   |
| 10967 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42     | ±9.6                   |
| 10968 | -   | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49     | ±9.6                   |
| 10972 | -   | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)         | 5G NR FR1 TDD | 11.59    | ±9.6                   |
| 10973 | -   | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 9.06     | ±9.6                   |
| 10974 | -   | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)  | 5G NR FR1 TDD | 10.28    | ±9.6                   |
| 10978 |     | ULLA BDR  | ULLA          | 1.16     | ±9.6                   |
| 10979 | -   | ULLA HDR4   | ULLA          | 8.58     | ±9.6                   |
| 10980 | -   | ULLA HDR8   | ULLA          | 10.32    | ±9.6                   |
| 10981 | AAA | ULLA HDRp4  | ULLA          | 3.19     | ±9.6                   |
|       |     |   | 1.7.7.7       |          | ±9.6                   |

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| UID   | Rev           | Communication System Name                          | Group         | PAR (dB) | $Unc^E k = 2$ |
|-------|---------------|--|---------------|----------|---------------|
| 10983 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31     | ±9.6          |
| 10984 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.42     | ±9.6          |
| 10985 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54     | ±9.6          |
| 10986 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50     | ±9.6          |
| 10987 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53     | ±9.6          |
| 10988 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38     | ±9.6          |
| 10989 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33     | ±9.6          |
| 10990 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52     | ±9.6          |
| 11003 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24    | ±9.6          |
| 11004 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73    | ±9.6          |
| 11005 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.70     | ±9.6          |
| 11006 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55     | ±9.6          |
| 11007 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.46     | ±9.6          |
| 11008 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51     | ±9.6          |
| 11009 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76     | ±9.6          |
| 11010 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.95     | ±9.6          |
| 11011 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96     | ±9.6          |
| 11012 | AAA           | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68     | ±9.6          |
| 11013 | AAA           | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)     | WLAN          | 8.47     | ±9.6          |
| 11014 | AAA           | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)     | WLAN          | 8.45     | ±9.6          |
| 11015 | AAA           | IEEE 802,11be (320 MHz, MCS3, 99pc duty cycle)     | WLAN          | 8.44     | ±9.6          |
| 11016 | AAA           | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)     | WLAN          | 8.44     | ±9.6          |
| 11017 |               | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)     | WLAN          | 8.41     | ±9.6          |
| 11018 |               | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)     | WLAN          | 8.40     | ±9.6          |
| 11019 | AAA           | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)     | WLAN          | 8.29     | ±9.6          |
| 11020 |               | IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)     | WLAN          | 8.27     | ±9.6          |
| 11021 | AAA           | IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)     | WLAN          | 8.46     | ±9.6          |
| 11022 | AAA           | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)    | WLAN          | 8.36     | ±9.6          |
| 11023 |               | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)    | WLAN          | 8.09     | ±9.6          |
| 11024 |               | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)    | WLAN          | 8.42     | ±9.6          |
| 11025 |               | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)    | WLAN          | 8.37     | ±9.6          |
| 11026 | 1 2 C 1 C 1 C | IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)     | WLAN          | 8.39     | ±9.6          |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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# ANNEX H Dipole Calibration Certificate

### 13 MHz Dipole Calibration Certificate

| Multilateral Agreement for the rec   | s one of the signatories  |   | Accreditation No.: SCS 0108   |
|--|---|---|---|
| Client CTTL<br>Beijing   |   | Certificate No.   | CLA13-1009_May23  |
| CALIBRATION C  | ERTIFICATE  |   |   |
| Object   | CLA13 - SN: 100   | 9   |   |
| Calibration procedure(s)   | QA CAL-15.v10<br>Calibration Proce  | dure for SAR Validation Sources   | below 700 MHz   |
| Calibration date:  | May 19, 2023  |   |   |
| All calibrations have been conducte  | ed in the closed laborator  | robability are given on the following pages an<br>y facility: environment temperature $(22 \pm 3)^{\circ}$ C  |   |
| All calibrations have been conducte<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2   | ed in the closed laborator  |   |   |
| All calibrations have been conducte<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91   | ad in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244   | y facility: environment temperature (22 ± 3)°C<br>Cal Date (Certificate No.)  | C and humidity < 70%.<br>Scheduled Calibration  |
| All calibrations have been conducte<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91   | ad in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245   | y facility: environment temperature (22 ± 3)°C<br><u>Cal Date (Certificate No.)</u><br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03805)  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24  |
| All calibrations have been conducte<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: CC2552 (20x)   | y facility: environment temperature (22 ± 3)°C<br><u>Cal Date (Certificate No.)</u><br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03805)<br>30-Mar-23 (No. 217-03809)   | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24  |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power sensor NRP-291<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination  | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: CC2552 (20x)<br>SN: 310982 / 06327   | y facility: environment temperature (22 ± 3)°C<br><u>Cal Date (Certificate No.)</u><br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03805)<br>30-Mar-23 (No. 217-03809)<br>30-Mar-23 (No. 217-03810)  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24  |
| All calibrations have been conducte<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: CC2552 (20x)   | y facility: environment temperature (22 ± 3)°C<br><u>Cal Date (Certificate No.)</u><br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03805)<br>30-Mar-23 (No. 217-03809)   | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24  |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-291<br>Power sensor NRP-291<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: CC2552 (20x)<br>SN: 310982 / 06327<br>SN: 654<br>ID #  | Cal Date (Certificate No.)         30-Mar-23 (No. 217-03804/03805)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03810)         06-Jan-23 (No. 217-03810)         06-Jan-23 (No. DAE4-654_Jan23)         27-Jan-23 (No. DAE4-654_Jan23)         Check Date (in house)  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Jan-24<br>Scheduled Check   |
| All calibrations have been conducte<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: CC2552 (20x)<br>SN: 310982 / 06327<br>SN: 654<br>ID #<br>SN: 107193  | y facility: environment temperature (22 ± 3)°C<br>Cal Date (Certificate No.)<br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03805)<br>30-Mar-23 (No. 217-03809)<br>30-Mar-23 (No. 217-03810)<br>06-Jan-23 (No. EX3-3877_Jan23)<br>27-Jan-23 (No. DAE4-654_Jan23)<br>Check Date (in house)<br>08-Nov-21 (in house check Dec-22)   | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Jan-24<br>Jan-24<br>Jan-24<br>In house check: Dec-24  |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: C22552 (20x)<br>SN: 310982 / 06327<br>SN: 3877<br>SN: 654<br>ID #<br>SN: 107193<br>SN: 100922  | Cal Date (Certificate No.)         30-Mar-23 (No. 217-03804/03805)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03810)         06-Jan-23 (No. 217-03810)         06-Jan-23 (No. 217-03810)         06-Mar-23 (No. DAE4-654_Jan23)         27-Jan-23 (No. DAE4-654_Jan23)         Check Date (in house)         08-Nov-21 (in house check Dec-22)         15-Dec-09 (in house check Dec-22)  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Jan-24<br>Scheduled Check<br>In house check: Dec-24<br>In house check: Dec-24   |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: CC2552 (20x)<br>SN: 310982 / 06327<br>SN: 3877<br>SN: 654<br>ID #<br>SN: 107193<br>SN: 100922<br>SN: 100418  | Cal Date (Certificate No.)         30-Mar-23 (No. 217-03804/03805)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03810)         06-Jan-23 (No. EX3-3877_Jan23)         27-Jan-23 (No. DAE4-654_Jan23)         Check Date (in house)         08-Nov-21 (in house check Dec-22)         15-Dec-09 (in house check Dec-22)         01-Jan-04 (in house check Dec-22)  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Jan-24<br>Scheduled Check<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Dec-24   |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91   | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: C22552 (20x)<br>SN: 310982 / 06327<br>SN: 3877<br>SN: 654<br>ID #<br>SN: 107193<br>SN: 100922  | Cal Date (Certificate No.)         30-Mar-23 (No. 217-03804/03805)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03810)         06-Jan-23 (No. 217-03810)         06-Jan-23 (No. 217-03810)         06-Mar-23 (No. DAE4-654_Jan23)         27-Jan-23 (No. DAE4-654_Jan23)         Check Date (in house)         08-Nov-21 (in house check Dec-22)         15-Dec-09 (in house check Dec-22)  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Jan-24<br>Scheduled Check<br>In house check: Dec-24<br>In house check: Dec-24   |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>RF generator HP 8648C<br>Network Analyzer Agilent E8358A | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: 02552 (20x)<br>SN: 310982 / 06327<br>SN: 654<br>ID #<br>SN: 107193<br>SN: 100922<br>SN: 100418<br>SN: US3642U01700<br>SN: US3642U01700<br>SN: US41080477<br>Name | y facility: environment temperature (22 ± 3)°C<br>Cal Date (Certificate No.)<br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03809)<br>30-Mar-23 (No. 217-03809)<br>30-Mar-23 (No. 217-03810)<br>06-Jan-23 (No. EX3-3877_Jan23)<br>27-Jan-23 (No. DAE4-654_Jan23)<br>Check Date (in house)<br>08-Nov-21 (in house check Dec-22)<br>15-Dec-09 (in house check Dec-22)<br>01-Jan-04 (in house check Dec-22)<br>01-Jan-04 (in house check Dec-22)<br>04-Aug-99 (in house check Dec-22)<br>31-Mar-14 (in house check Oct-22)<br>Function  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Scheduled Check<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Jun-24                           |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>RF generator HP 8648C                                    | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: 02252 (20x)<br>SN: 310982 / 06327<br>SN: 3877<br>SN: 654<br>ID #<br>SN: 107193<br>SN: 100922<br>SN: 100922<br>SN: 100418<br>SN: US3642U01700                     | Y facility: environment temperature (22 ± 3)°C         Cal Date (Certificate No.)         30-Mar-23 (No. 217-03804/03805)         30-Mar-23 (No. 217-03804)         30-Mar-23 (No. 217-03805)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03809)         30-Mar-23 (No. 217-03810)         06-Jan-23 (No. EX3-3877_Jan23)         27-Jan-23 (No. DAE4-654_Jan23)         Check Date (in house)         08-Nov-21 (in house check Dec-22)         15-Dec-09 (in house check Dec-22)         01-Jan-04 (in house check Dec-22)         01-Jan-04 (in house check Oct-22)         31-Mar-14 (in house check Oct-22) | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Scheduled Check<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Jun-24<br>In house check: Oct-24 |
| All calibrations have been conducts<br>Calibration Equipment used (M&TE<br>Primary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter NRP2<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>Power sensor NRP-Z91<br>RF generator HP 8648C<br>Network Analyzer Agilent E8358A | ed in the closed laborator<br>critical for calibration)<br>ID #<br>SN: 104778<br>SN: 103244<br>SN: 103245<br>SN: 02552 (20x)<br>SN: 310982 / 06327<br>SN: 654<br>ID #<br>SN: 107193<br>SN: 100922<br>SN: 100418<br>SN: US3642U01700<br>SN: US3642U01700<br>SN: US41080477<br>Name | y facility: environment temperature (22 ± 3)°C<br>Cal Date (Certificate No.)<br>30-Mar-23 (No. 217-03804/03805)<br>30-Mar-23 (No. 217-03804)<br>30-Mar-23 (No. 217-03809)<br>30-Mar-23 (No. 217-03809)<br>30-Mar-23 (No. 217-03810)<br>06-Jan-23 (No. EX3-3877_Jan23)<br>27-Jan-23 (No. DAE4-654_Jan23)<br>Check Date (in house)<br>08-Nov-21 (in house check Dec-22)<br>15-Dec-09 (in house check Dec-22)<br>01-Jan-04 (in house check Dec-22)<br>01-Jan-04 (in house check Dec-22)<br>04-Aug-99 (in house check Dec-22)<br>31-Mar-14 (in house check Oct-22)<br>Function  | C and humidity < 70%.<br>Scheduled Calibration<br>Mar-24<br>Mar-24<br>Mar-24<br>Mar-24<br>Jan-24<br>Jan-24<br>Scheduled Check<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Dec-24<br>In house check: Jun-24<br>In house check: Oct-24 |





### **Calibration Laboratory of** Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



Schweizerischer Kalibrierdienst Service suisse d'étalonnage С Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

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Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

### Glossary:

| TSL   | tissue simulating liquid        |
|-------|---------------------------------|
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A   | not applicable or not measured  |

### Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### **Additional Documentation:**

c) DASY System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

| DASY5                        | V52.10.4   |
|------------------------------|--|
| Advanced Extrapolation       |  |
| ELI4 Flat Phantom            | Shell thickness: 2 ± 0.2 mm  |
| Touch Position               |  |
| dx, dy = 4.0 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction)   |
| 13 MHz ± 1 MHz               |  |
|                              | Advanced Extrapolation       ELI4 Flat Phantom       Touch Position       dx, dy = 4.0 mm, dz = 1.4 mm |

Head TSL parameters The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 55.0         | 0.75 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 53.6 ± 6 %   | 0.72 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        |              |                  |

### SAR result with Head TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL | Condition        |                           |
|---|------------------|---------------------------|
| SAR measured  | 1 W input power  | 0.558 W/kg                |
| SAR for nominal Head TSL parameters                   | normalized to 1W | 0.573 W/kg ± 18.4 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition        |                           |
|---|------------------|---------------------------|
| SAR measured  | 1 W input power  | 0.344 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W | 0.353 W/kg ± 18.0 % (k=2) |

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### Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 49.6 Ω - 1.7 jΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 35.2 dB       |  |

### Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|
|-----------------|-------|

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### **DASY5 Validation Report for Head TSL**

Date: 19.05.2023

Test Laboratory: SPEAG, Zurich, Switzerland

### DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1009

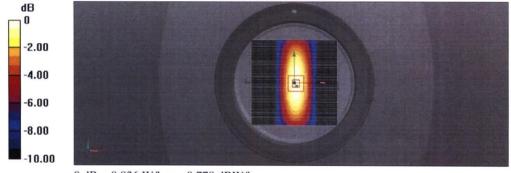
Communication System: UID 0 - CW; Frequency: 13 MHz Medium parameters used: f = 13 MHz;  $\sigma$  = 0.72 S/m;  $\epsilon_r$  = 53.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(15.33, 15.33, 15.33) @ 13 MHz; Calibrated: 06.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 27.01.2023
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

CLA Calibration for HSL-LF Tissue/CLA-13, touch configuration, Pin=1W/Zoom Scan, dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 31.63 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 1.17 W/kg SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.344 W/kg Smallest distance from peaks to all points 3 dB below = 15.2 mm Ratio of SAR at M2 to SAR at M1 = 77.5%Maximum value of SAR (measured) = 0.836 W/kg



0 dB = 0.836 W/kg = -0.778 dBW/kg

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### Impedance Measurement Plot for Head TSL

| le  | <b>MICAA</b>  | Channel     | Sweep | Calibration | Irace          | Scale | Marker | System | Window | He   | lp    |       |      | 100        |
|---|---|-------------|-------|-------------|----------------|-------|--------|--------|--------|------|-------|-------|------|------------|
|   |   |             |       |             |                | /     | -      | >      | 1      | 13.0 | 00000 |       |      | 9.555 C    |
|   |   |             |       |             |                | A     | $\sim$ | 1-     | A      |      | 7.330 | 06 nF | -1   | .6701 0    |
|   |   |             |       |             | 1              | 1     | $\sim$ | 1-     | -1     |      |       |       |      |            |
|   |   |             |       |             | 1              | +     |        | X      | 4X     |      |       |       |      |            |
|   |   |             |       |             | $\square$      |       | 1      | 1-1    | 1 XC   | 1    |       |       |      |            |
|   |   |             |       |             |                | 1     | 1      | tt     | 74     | 1    |       |       |      |            |
|   |   |             |       |             | F              | -     | -      | $\sim$ | 1-X    | 1    |       |       |      |            |
|   |   |             |       |             |                | ( )   | X      | 5      | 1      |      |       |       |      |            |
|   |   |             |       |             |                | V     | ~      | 1-     | X      |      |       |       |      |            |
|   |   | Ch 1 Avg =  |       |             |                |       | -      | E      |        |      |       |       |      |            |
|   | Ch 4 . Ca.  | art 10.0000 |       |             |                |       |        |        |        |      |       |       | STOR | 0.0000111  |
| _   | UNT: SE   | art 10.0000 | MHz - | -           | R. Complete P. |       |        |        |        |      |       |       | stop | 16.0000 MH |
|   | -   | dB \$11     | MHz - |             | T              | -     |        |        | 1      | 13.0 | 00000 | MHz   |      |            |
| 5.0   | 0 [   |             | MHz - |             |                |       |        | >      | 1:     | 13.0 | 00000 | MHz   |      | 5.210 dE   |
| 5.0   | 0   |             | MHz - |             |                |       | ~      | >      | 1:     | 13.0 | 00000 | MHz   |      |            |
| 5.01<br>2.01<br>-1.0<br>-4.0  | 0   |             | MHz   |             |                |       | 7      | >      | 1:     | 13.0 | 00000 | MHz   |      | -          |
| 5.01<br>2.01<br>-1.0<br>-4.0<br>-7.0  | 0   |             | MHz - |             |                |       |        | >      | 1:     | 13.0 | 00000 | MHz   |      | -          |
| 5.01<br>2.01<br>-1.0<br>-4.0<br>-7.0  | 0   |             | MHz - |             |                |       |        | >      | 1:     | 13.0 | 00000 | MHz   |      | -          |
| 5.01<br>2.01<br>-1.0<br>-4.0<br>-7.0<br>-10.  | 0   |             |       |             |                |       |        | >      | 1:     | 13.0 | 00000 | MHz   |      | -          |
| 5.01<br>2.01<br>-1.0<br>-7.0<br>-10.  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |             |       |             |                |       |        | >      | 1:     | 13.0 | 00000 | MHz   |      | -          |
| -1.0<br>-1.0<br>-7.0<br>-10.<br>-13.<br>-16.<br>-19.                                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    |             |       |             |                |       |        | >      |        | 13.0 | 00000 | MHz   |      |            |
| 5.01<br>2.01<br>-1.0<br>-7.0<br>-7.0<br>-10.<br>-13.<br>-16.<br>-19.<br>-22.        | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 48 S11      |       |             |                |       |        | >      | 1      | 13.0 | 00000 | MHz   |      |            |
| 5.01<br>2.01<br>-1.0<br>-4.0<br>-7.0<br>-10.<br>-13.<br>-16.<br>-19.<br>-22.<br>-25 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |             | 20    |             |                |       |        | >      | 1      | 13.0 | 00000 | MHz   | -3   |            |

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## 750 MHz Dipole Calibration Certificate

| CALIDDATIC   | e a g  |  |  |
|--|--|--|--|
| Add: No.52 HuaYuanBei Ro<br>Tel: +86-10-62304633-2117  | ad, Haidian District,  | Beijing, 100191  | IBRATION<br>AS L0570   |
| E-mail: emf@caict.ac.cn  | http://www.caict   |  | 3Z60263  |
| Client Potin (   | Beijing) Technolo  | gy co.,Ltd Certificate No. 32.   | 5200205  |
| CALIBRATION CE   | ERTIFICAT  | E  |  |
| Object   | D750V  | 3 - SN: 1196   |  |
| Calibration Procedure(s)   | FF-Z11   | -003-01  |  |
|  |  | tion Procedures for dipole validation kits   |  |
| Calibration date:  | May 24   | , 2023   |  |
| pages and are part of the ce<br>All calibrations have been<br>humidity<70%.  | ertificate.  | the uncertainties with confidence probability a he closed laboratory facility: environment t   |  |
| Calibration Equipment used   | (M&TE critical for   | or calibration)  |  |
|  | (M&TE critical fo  | or calibration)<br>Cal Date (Calibrated by, Certificate No.)   | Scheduled Calibration  |
|  |  | ·  | Scheduled Calibration<br>Sep-23  |
| Primary Standards  | ID #   | Cal Date (Calibrated by, Certificate No.)  |  |
| Primary Standards<br>Power Meter NRP2  | ID #<br>106277<br>104291   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)  | Sep-23   |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S  | ID #<br>106277<br>104291   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)  | Sep-23<br>Sep-23   |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4  | ID #<br>106277<br>104291<br>SN 3617  | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)  | Sep-23<br>Sep-23<br>Mar-24   |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4  | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)  | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24   |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards   | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556<br>ID #<br>MY49071430   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)   | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24<br>Scheduled Calibration                                  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C  | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556<br>ID #<br>MY49071430   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)  | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24                        |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C<br>Network Analyzer E5071C                                   | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673                                 | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)   | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24              |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C  | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673<br>Name                         | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)<br>Function   | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24              |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C<br>Network Analyzer E5071C                                   | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673<br>Name<br>Zhao Jing            | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)<br>Function<br>SAR Test Engineer                      | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24              |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C<br>Network Analyzer E5071C<br>Calibrated by:<br>Reviewed by: | ID #<br>106277<br>104291<br>SN 3617<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673<br>Name<br>Zhao Jing<br>Lin Hao | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>31-Mar-23(CTTL-SPEAG,No.Z23-60161)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)<br>Function<br>SAR Test Engineer<br>SAR Test Engineer | Sep-23<br>Sep-23<br>Mar-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24<br>Signature |

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### Glossary:

| TSL   | tissue simulating liquid       |
|-------|--------------------------------|
| ConvF | sensitivity in TSL / NORMx,y,z |
| N/A   | not applicable or not measured |

### Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "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)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

c) DASY4/5 System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
  of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
  point exactly below the center marking of the flat phantom section, with the arms oriented
  parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
  positioned under the liquid filled phantom. The impedance stated is transformed from the
  measurement at the SMA connector to the feed point. The Return Loss ensures low
  reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

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CAICT

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### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

| DASY Version                 | DASY52                   | V52.10.4    |
|------------------------------|--------------------------|-------------|
| Extrapolation                | Advanced Extrapolation   |             |
| Phantom                      | Triple Flat Phantom 5.1C |             |
| Distance Dipole Center - TSL | 15 mm                    | with Spacer |
| Zoom Scan Resolution         | dx, dy, dz = 5 mm        |             |
| Frequency                    | 750 MHz ± 1 MHz          |             |

Head TSL parameters The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 42.0         | 0.90 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 42.5 ± 6 %   | 0.91 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C         | -            |                  |

### SAR result with Head TSL

| SAR averaged over 1 $cm^3$ (1 g) of Head TSL   | Condition          |                                   |
|--|--------------------|-----------------------------------|
| SAR measured                                   | 250 mW input power | 2.15 W/kg                         |
| SAR for nominal Head TSL parameters            | normalized to 1W   | 8.48 W/kg ± 18.8 % ( <i>k</i> =2) |
| SAR averaged over 10 $cm^3$ (10 g) of Head TSL | Condition          |                                   |
| SAR measured                                   | 250 mW input power | 1.40 W/kg                         |
| SAR for nominal Head TSL parameters            | normalized to 1W   | 5.54 W/kg ± 18.7 % ( <i>k</i> =2) |

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### Appendix (Additional assessments outside the scope of CNAS L0570)

### **Antenna Parameters with Head TSL**

| Impedance, transformed to feed point | 51.5Ω- 2.40jΩ |
|--------------------------------------|---------------|
| Return Loss                          | - 31.0dB      |

### General Antenna Parameters and Design

| 0.941 ns |
|----------|
|          |

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

### **Additional EUT Data**

| Manufactured by | SPEAG |
|-----------------|-------|
|                 |       |

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**DASY5 Validation Report for Head TSL** 

Date: 2023-05-24

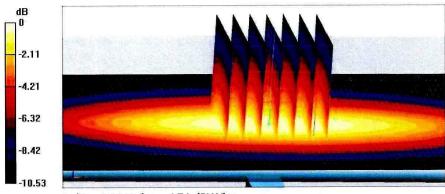
Test Laboratory: CTTL, Beijing, China **DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1196** Communication System: UID 0, CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.54$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Right Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY5 Configuration:

- Probe: EX3DV4 SN3617; ConvF(10.1, 10.1, 10.1) @ 750 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 54.96 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.46 W/kg SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.4 W/kg Smallest distance from peaks to all points 3 dB below = 19.2 mm

Smallest distance from peaks to an points 5 dB of Ratio of SAR at M2 to SAR at M1 = 62.6%

Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg = 4.74 dBW/kg

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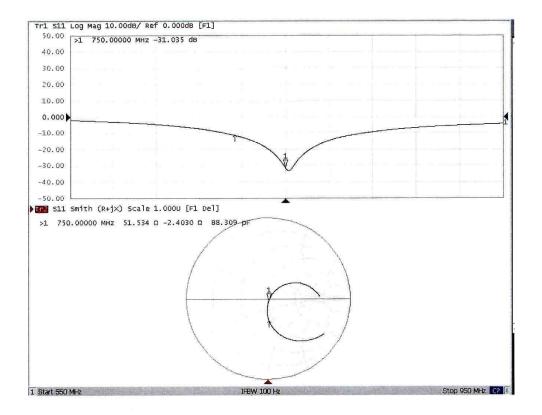








Impedance Measurement Plot for Head TSL



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## 835 MHz Dipole Calibration Certificate

| CALIBRATIC  | tion with<br><b>e a g</b>  |   | 中国认可<br>国际互认<br>交准  |  |  |
|---|--|---|---|--|--|
| Add: No.52 HuaYuanBei Ro<br>Tel: +86-10-62304633-2117   | ad, Haidian District,  |   | CALIBRATION<br>CNAS L0570   |  |  |
| E-mail: emf@caict.ac.cn   | http://www.caic  |   | 00700004  |  |  |
| Client Potin (  | Beijing) Technolo  | gy Co.,Ltd Certificate No: J  | 23Z60264  |  |  |
| CALIBRATION CE  | ERTIFICAT  | E   |   |  |  |
| Object  | D835V2 - SN: 4d260   |   |   |  |  |
| Calibration Procedure(s)  | FF-711   | -003-01   |   |  |  |
|   |  | tion Procedures for dipole validation kits  |   |  |  |
| Calibration date:   | May 23   | , 2023  |   |  |  |
| measurements (SI). The me<br>pages and are part of the ce<br>All calibrations have been<br>humidity<70%.  | easurements and<br>ertificate.<br>conducted in t   | traceability to national standards, which re<br>the uncertainties with confidence probability<br>he closed laboratory facility: environment   | y are given on the following  |  |  |
|   |  | or calibration)   |   |  |  |
|   |  | Cal Date (Calibrated by Certificate No.)  | Scheduled Calibration   |  |  |
| Primary Standards   | ID#  | Cal Date (Calibrated by, Certificate No.)   | Scheduled Calibration<br>Sep-23   |  |  |
| Primary Standards<br>Power Meter NRP2   |  | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)   | Sep-23  |  |  |
| Primary Standards   | ID #<br>106277<br>104291   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)   |   |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S   | ID #<br>106277<br>104291   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)   | Sep-23<br>Sep-23  |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4   | ID #<br>106277<br>104291<br>SN 7517  | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)  | Sep-23<br>Sep-23<br>Jan-24  |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4   | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)  | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24  |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards  | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556<br>ID #   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)   | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24<br>Scheduled Calibration                               |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C   | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556<br>ID #<br>MY49071430   | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)  | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24           |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C   | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673                                 | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)   | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24                     |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C<br>NetworkAnalyzer E5071C                                   | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673<br>Name                         | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)<br>Function   | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24           |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C<br>NetworkAnalyzer E5071C<br>Calibrated by:<br>Reviewed by: | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673<br>Name<br>Zhao Jing            | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)<br>Function<br>SAR Test Engineer                      | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24           |  |  |
| Primary Standards<br>Power Meter NRP2<br>Power sensor NRP8S<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Signal Generator E4438C<br>NetworkAnalyzer E5071C                                   | ID #<br>106277<br>104291<br>SN 7517<br>SN 1556<br>ID #<br>MY49071430<br>MY46110673<br>Name<br>Zhao Jing<br>Lin Hao | Cal Date (Calibrated by, Certificate No.)<br>22-Sep-22 (CTTL, No.J22X09561)<br>22-Sep-22 (CTTL, No.J22X09561)<br>27-Jan-23(SPEAG,No.EX-7517_Jan23)<br>11-Jan-23(CTTL-SPEAG,No.Z23-60034)<br>Cal Date (Calibrated by, Certificate No.)<br>05-Jan-23 (CTTL, No. J23X00107)<br>10-Jan-23 (CTTL, No. J23X00104)<br>Function<br>SAR Test Engineer<br>SAR Test Engineer | Sep-23<br>Sep-23<br>Jan-24<br>Jan-24<br>Scheduled Calibration<br>Jan-24<br>Jan-24<br>Jan-24 |  |  |

Certificate No: J23Z60264

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