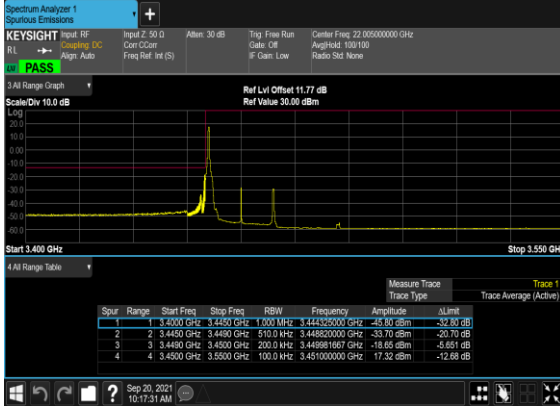
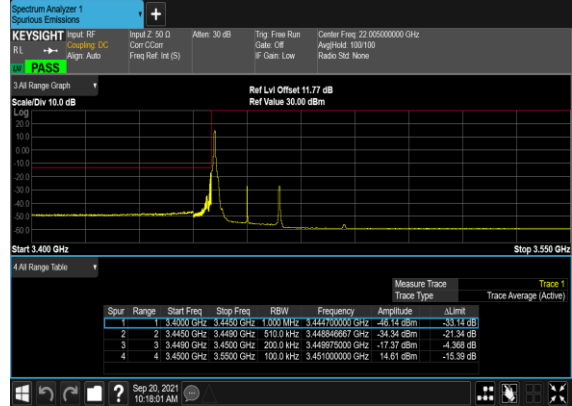


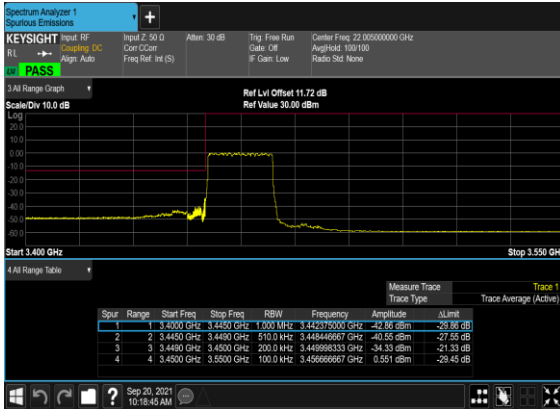
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



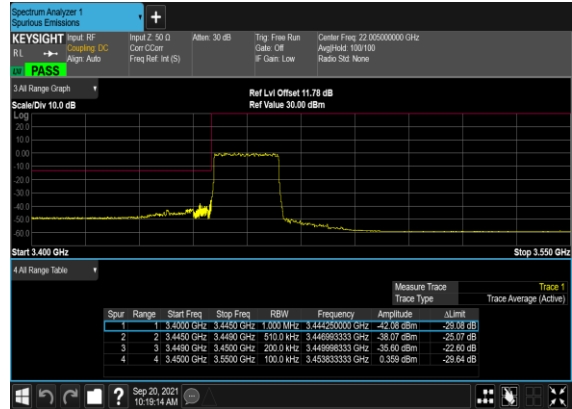
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



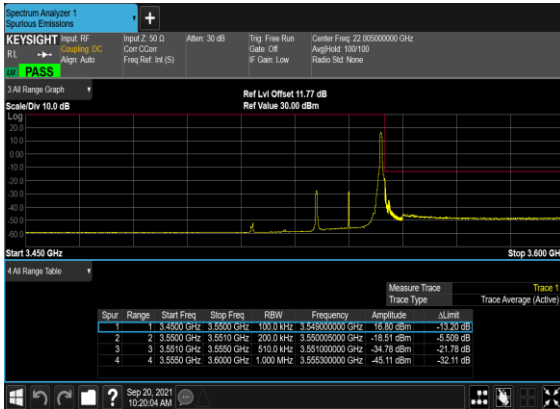
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OFDM_BPSK_Outer_Full_Low_CH



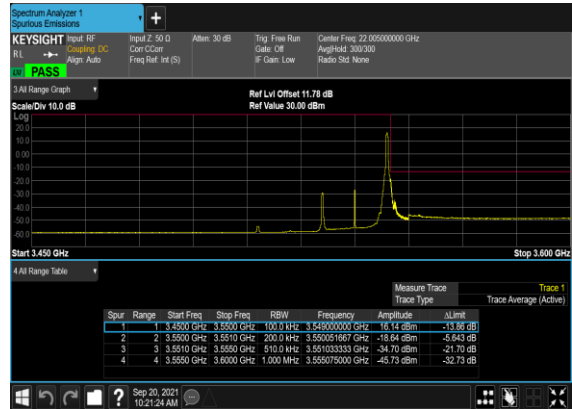
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OFDM_QPSK_Outer_Full_Low_CH



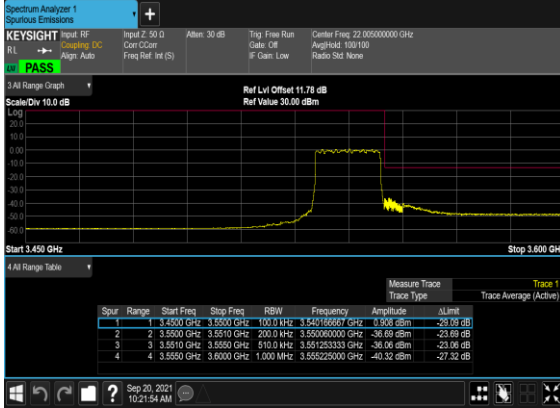
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



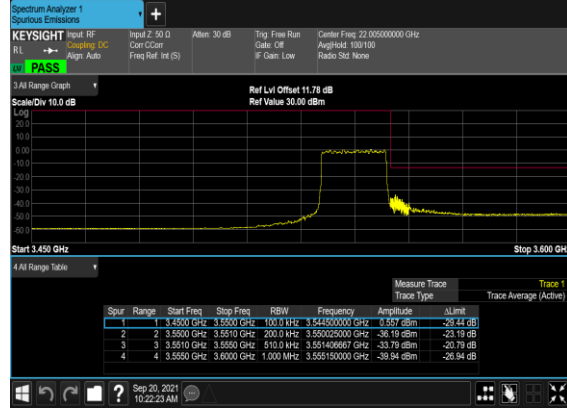
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



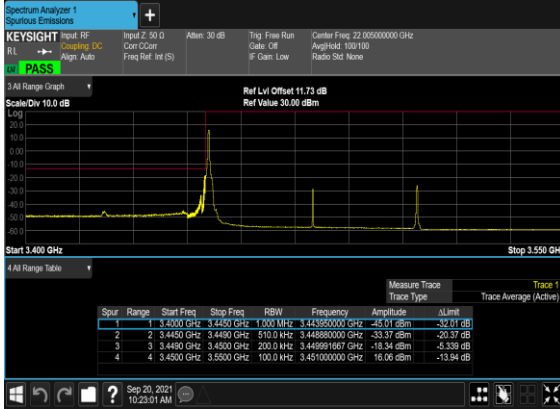
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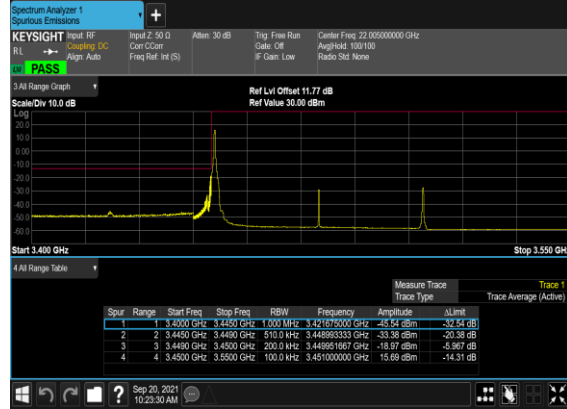
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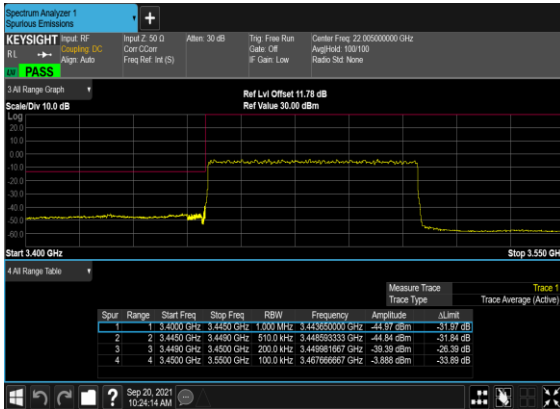
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



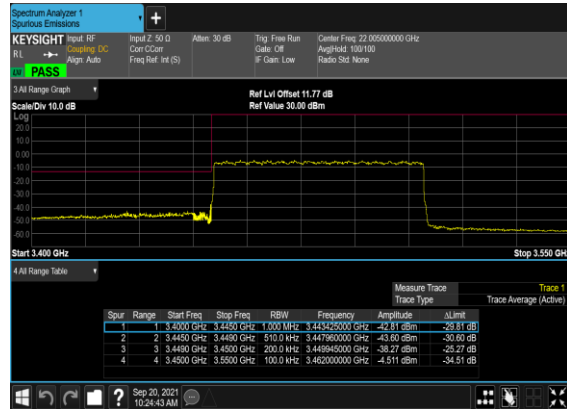
N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



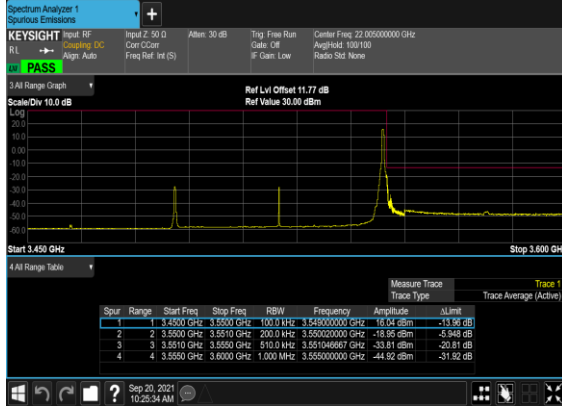
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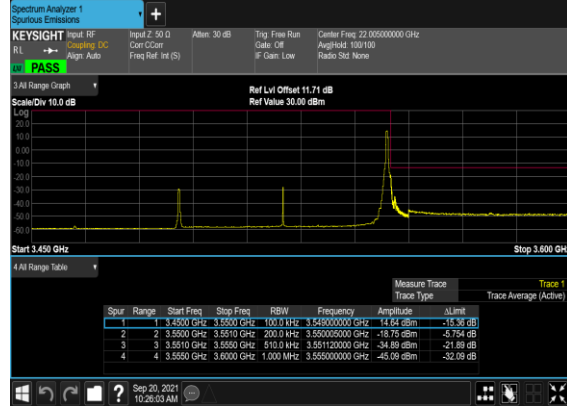
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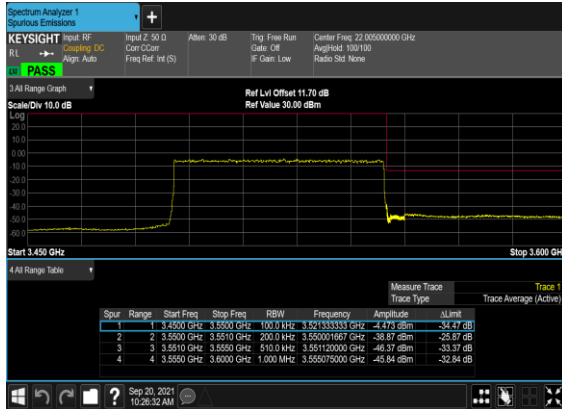
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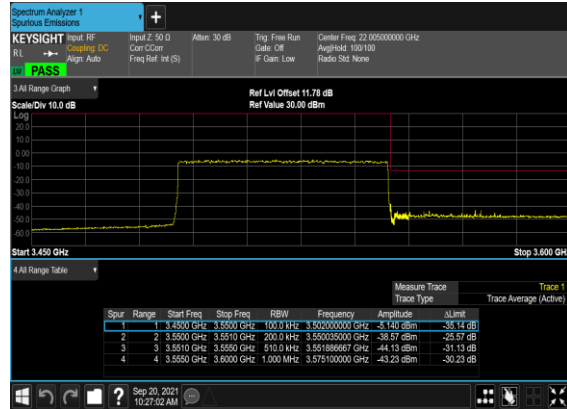
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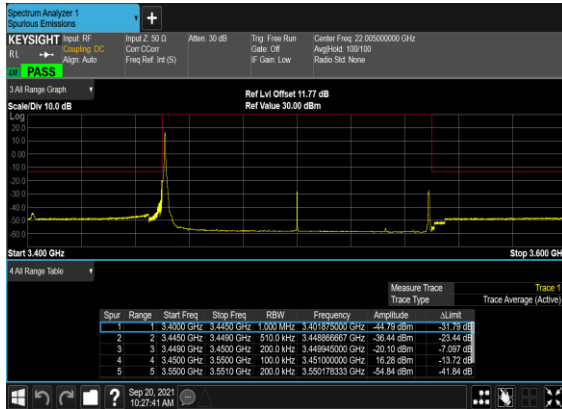
N77(60M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



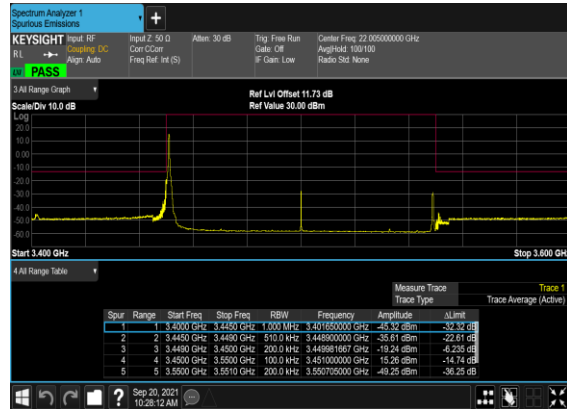
N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



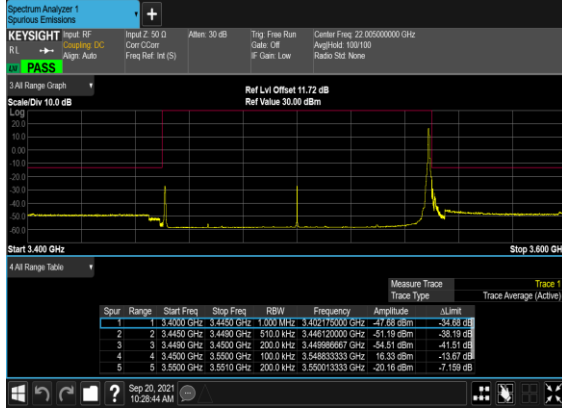
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



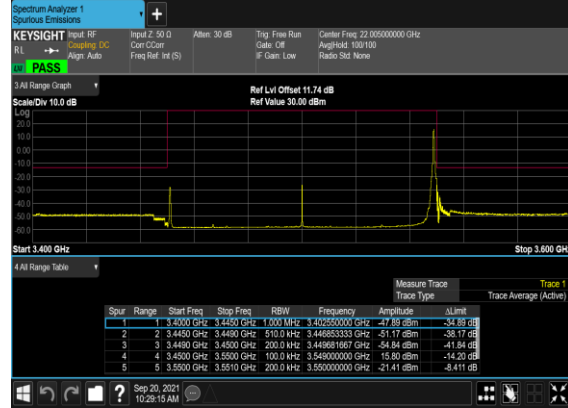
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



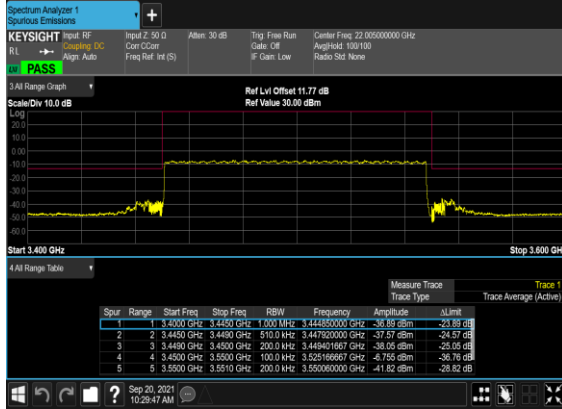
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



FR1 N78

Transmitter Conducted Output Power And ERP/EIRP

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Conducted Power(dBm) | EIRP (dBm) | EIRP (W) |
|---------|-----------|-----------------|--------|------------|----------------------|-------|----------------------|------------|----------|
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.48 | 16.68 | 0.0466 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.5 | 16.7 | 0.0468 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@49 | 23.57 | 16.77 | 0.0475 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 25@12 | 23.34 | 16.54 | 0.0451 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@1 | 23.34 | 16.54 | 0.0451 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@49 | 23.53 | 16.73 | 0.0471 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 25@12 | 21.44 | 14.64 | 0.0291 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 1@1 | 21.33 | 14.53 | 0.0284 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 1@49 | 21.3 | 14.5 | 0.0282 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 25@12 | 20.01 | 13.21 | 0.0209 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 1@1 | 19.77 | 12.97 | 0.0198 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 1@49 | 19.82 | 13.02 | 0.0200 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 25@12 | 17.94 | 11.14 | 0.0130 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 1@1 | 17.97 | 11.17 | 0.0131 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 1@49 | 17.93 | 11.13 | 0.0130 |
| 78 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 25@12 | 20.92 | 14.12 | 0.0258 |
| 78 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 1@1 | 21.01 | 14.21 | 0.0264 |
| 78 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 1@49 | 21.01 | 14.21 | 0.0264 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.64 | 16.84 | 0.0483 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.54 | 16.74 | 0.0472 |

| | | | | | | | | | |
|----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@49 | 23.61 | 16.81 | 0.0480 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 25@12 | 23.59 | 16.79 | 0.0478 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.69 | 16.89 | 0.0489 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@49 | 23.5 | 16.7 | 0.0468 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 25@12 | 21.64 | 14.84 | 0.0305 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.56 | 14.76 | 0.0299 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@49 | 21.81 | 15.01 | 0.0317 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 25@12 | 20.14 | 13.34 | 0.0216 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.11 | 13.31 | 0.0214 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@49 | 20.1 | 13.3 | 0.0214 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 25@12 | 18.08 | 11.28 | 0.0134 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.22 | 11.42 | 0.0139 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@49 | 18.02 | 11.22 | 0.0132 |
| 78 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 25@12 | 21.1 | 14.3 | 0.0269 |
| 78 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.04 | 14.24 | 0.0265 |
| 78 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 1@49 | 21.22 | 14.42 | 0.0277 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.71 | 16.91 | 0.0491 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.81 | 17.01 | 0.0502 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 1@49 | 23.9 | 17.1 | 0.0513 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 25@12 | 23.71 | 16.91 | 0.0491 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 1@1 | 23.86 | 17.06 | 0.0508 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 1@49 | 23.8 | 17 | 0.0501 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 25@12 | 21.73 | 14.93 | 0.0311 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 1@1 | 21.52 | 14.72 | 0.0296 |

| QAM | | | | | | | | | |
|-----|----|----|--------|------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 1@49 | 21.93 | 15.13 | 0.0326 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 25@12 | 20.33 | 13.53 | 0.0225 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 1@1 | 20.31 | 13.51 | 0.0224 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 1@49 | 20.34 | 13.54 | 0.0226 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 25@12 | 18.25 | 11.45 | 0.0140 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 1@1 | 18.13 | 11.33 | 0.0136 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 1@49 | 18.16 | 11.36 | 0.0137 |
| 78 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 25@12 | 21.22 | 14.42 | 0.0277 |
| 78 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 1@1 | 21.23 | 14.43 | 0.0277 |
| 78 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 1@49 | 21.4 | 14.6 | 0.0288 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.35 | 16.55 | 0.0452 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.52 | 16.72 | 0.0470 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 1@76 | 23.35 | 16.55 | 0.0452 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 36@18 | 23.52 | 16.72 | 0.0470 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 1@1 | 23.47 | 16.67 | 0.0465 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 1@76 | 23.55 | 16.75 | 0.0473 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 36@18 | 21.18 | 14.38 | 0.0274 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 1@1 | 21.47 | 14.67 | 0.0293 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 1@76 | 21.4 | 14.6 | 0.0288 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 36@18 | 20.05 | 13.25 | 0.0211 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 1@1 | 20.05 | 13.25 | 0.0211 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 1@76 | 19.87 | 13.07 | 0.0203 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 36@18 | 18.02 | 11.22 | 0.0132 |

| | | | | | | | | | |
|----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 1@1 | 18.03 | 11.23 | 0.0133 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 1@76 | 17.9 | 11.1 | 0.0129 |
| 78 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 39@19 | 21.02 | 14.22 | 0.0264 |
| 78 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 1@1 | 21.13 | 14.33 | 0.0271 |
| 78 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 1@76 | 20.87 | 14.07 | 0.0255 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.67 | 16.87 | 0.0486 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.62 | 16.82 | 0.0481 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@76 | 23.54 | 16.74 | 0.0472 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 36@18 | 23.53 | 16.73 | 0.0471 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.71 | 16.91 | 0.0491 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@76 | 23.62 | 16.82 | 0.0481 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 36@18 | 21.53 | 14.73 | 0.0297 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.56 | 14.76 | 0.0299 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@76 | 21.42 | 14.62 | 0.0290 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 36@18 | 20.05 | 13.25 | 0.0211 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.02 | 13.22 | 0.0210 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@76 | 19.93 | 13.13 | 0.0206 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 36@18 | 18.04 | 11.24 | 0.0133 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.08 | 11.28 | 0.0134 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@76 | 17.92 | 11.12 | 0.0129 |
| 78 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 39@19 | 21.06 | 14.26 | 0.0267 |
| 78 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.08 | 14.28 | 0.0268 |
| 78 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 1@76 | 20.85 | 14.05 | 0.0254 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.81 | 17.01 | 0.0502 |

| | | | | | | | | | |
|----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.87 | 17.07 | 0.0509 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 1@76 | 23.75 | 16.95 | 0.0495 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 36@18 | 23.56 | 16.76 | 0.0474 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 1@1 | 23.7 | 16.9 | 0.0490 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 1@76 | 23.65 | 16.85 | 0.0484 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 36@18 | 21.45 | 14.65 | 0.0292 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 1@1 | 21.77 | 14.97 | 0.0314 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 1@76 | 21.74 | 14.94 | 0.0312 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 36@18 | 20.26 | 13.46 | 0.0222 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 1@1 | 20.18 | 13.38 | 0.0218 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 1@76 | 20.19 | 13.39 | 0.0218 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 36@18 | 18.24 | 11.44 | 0.0139 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 1@1 | 18.24 | 11.44 | 0.0139 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 1@76 | 18.29 | 11.49 | 0.0141 |
| 78 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 39@19 | 21.31 | 14.51 | 0.0282 |
| 78 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 1@1 | 21.34 | 14.54 | 0.0284 |
| 78 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 1@76 | 21.34 | 14.54 | 0.0284 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.4 | 16.6 | 0.0457 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.46 | 16.66 | 0.0463 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.43 | 16.63 | 0.0460 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 50@25 | 23.52 | 16.72 | 0.0470 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 1@1 | 23.59 | 16.79 | 0.0478 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 1@104 | 23.55 | 16.75 | 0.0473 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 | 50@25 | 21.43 | 14.63 | 0.0290 |

| QAM | | | | | | | | | |
|-----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.57 | 14.77 | 0.0300 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 1@104 | 21.61 | 14.81 | 0.0303 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 50@25 | 20.08 | 13.28 | 0.0213 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.07 | 13.27 | 0.0212 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 1@104 | 19.97 | 13.17 | 0.0207 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 50@25 | 18.07 | 11.27 | 0.0134 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.07 | 11.27 | 0.0134 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 1@104 | 18.01 | 11.21 | 0.0132 |
| 78 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 53@26 | 21.02 | 14.22 | 0.0264 |
| 78 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 1@1 | 21.23 | 14.43 | 0.0277 |
| 78 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 1@104 | 21.24 | 14.44 | 0.0278 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.51 | 16.71 | 0.0469 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.54 | 16.74 | 0.0472 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.77 | 16.97 | 0.0498 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@25 | 23.65 | 16.85 | 0.0484 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.55 | 16.75 | 0.0473 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@104 | 23.63 | 16.83 | 0.0482 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 50@25 | 21.63 | 14.83 | 0.0304 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.59 | 14.79 | 0.0301 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@104 | 21.63 | 14.83 | 0.0304 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 50@25 | 20.15 | 13.35 | 0.0216 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.03 | 13.23 | 0.0210 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@104 | 20.11 | 13.31 | 0.0214 |

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|----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 50@25 | 18.12 | 11.32 | 0.0136 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.17 | 11.37 | 0.0137 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@104 | 18.2 | 11.4 | 0.0138 |
| 78 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 53@26 | 21.17 | 14.37 | 0.0274 |
| 78 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.19 | 14.39 | 0.0275 |
| 78 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 1@104 | 21.08 | 14.28 | 0.0268 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.66 | 16.86 | 0.0485 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.85 | 17.05 | 0.0507 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.74 | 16.94 | 0.0494 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 50@25 | 23.78 | 16.98 | 0.0499 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 1@1 | 23.85 | 17.05 | 0.0507 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 1@104 | 23.66 | 16.86 | 0.0485 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 50@25 | 21.73 | 14.93 | 0.0311 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 1@1 | 21.85 | 15.05 | 0.0320 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 1@104 | 21.76 | 14.96 | 0.0313 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 50@25 | 20.24 | 13.44 | 0.0221 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 1@1 | 20.06 | 13.26 | 0.0212 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 1@104 | 20.32 | 13.52 | 0.0225 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 50@25 | 18.17 | 11.37 | 0.0137 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 1@1 | 18.2 | 11.4 | 0.0138 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 1@104 | 18.19 | 11.39 | 0.0138 |
| 78 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 53@26 | 21.25 | 14.45 | 0.0279 |
| 78 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 1@1 | 21.42 | 14.62 | 0.0290 |
| 78 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 1@104 | 21.38 | 14.58 | 0.0287 |

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|----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 64@32 | 23.43 | 16.63 | 0.0460 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.29 | 16.49 | 0.0446 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 1@131 | 23.42 | 16.62 | 0.0459 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 64@32 | 23.23 | 16.43 | 0.0440 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 1@1 | 23.06 | 16.26 | 0.0423 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 1@131 | 23.19 | 16.39 | 0.0436 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 64@32 | 21.23 | 14.43 | 0.0277 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 1@1 | 21.25 | 14.45 | 0.0279 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 1@131 | 21.19 | 14.39 | 0.0275 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 64@32 | 19.95 | 13.15 | 0.0207 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 1@1 | 19.7 | 12.9 | 0.0195 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 1@131 | 19.7 | 12.9 | 0.0195 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 64@32 | 17.88 | 11.08 | 0.0128 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 1@1 | 17.82 | 11.02 | 0.0126 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 1@131 | 17.72 | 10.92 | 0.0124 |
| 78 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 67@33 | 20.95 | 14.15 | 0.0260 |
| 78 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 1@1 | 20.81 | 14.01 | 0.0252 |
| 78 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 1@131 | 20.86 | 14.06 | 0.0255 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 64@32 | 23.48 | 16.68 | 0.0466 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.32 | 16.52 | 0.0449 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@131 | 23.48 | 16.68 | 0.0466 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 64@32 | 23.51 | 16.71 | 0.0469 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.37 | 16.57 | 0.0454 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM | 1@131 | 19.27 | 12.47 | 0.0177 |

| QPSK | | | | | | | | | | |
|------|----|----|--------|---------|----------------------|-------|-------|-------|--------|--|
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 64@32 | 21.4 | 14.6 | 0.0288 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.09 | 14.29 | 0.0269 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@131 | 21.1 | 14.3 | 0.0269 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 64@32 | 19.91 | 13.11 | 0.0205 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 19.81 | 13.01 | 0.0200 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@131 | 19.87 | 13.07 | 0.0203 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 64@32 | 17.95 | 11.15 | 0.0130 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 17.88 | 11.08 | 0.0128 | |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@131 | 17.89 | 11.09 | 0.0129 | |
| 78 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 67@33 | 20.97 | 14.17 | 0.0261 | |
| 78 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 20.68 | 13.88 | 0.0244 | |
| 78 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 1@131 | 20.87 | 14.07 | 0.0255 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 64@32 | 23.46 | 16.66 | 0.0463 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.4 | 16.6 | 0.0457 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 1@131 | 23.35 | 16.55 | 0.0452 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 64@32 | 23.47 | 16.67 | 0.0465 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 1@1 | 23.25 | 16.45 | 0.0442 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 1@131 | 22.8 | 16 | 0.0398 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 64@32 | 21.2 | 14.4 | 0.0275 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 1@1 | 21.42 | 14.62 | 0.0290 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 1@131 | 21.34 | 14.54 | 0.0284 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 64@32 | 20.05 | 13.25 | 0.0211 | |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 1@1 | 19.88 | 13.08 | 0.0203 | |

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|----|----|----|--------|------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 1@131 | 19.84 | 13.04 | 0.0201 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 64@32 | 18.03 | 11.23 | 0.0133 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 1@1 | 17.85 | 11.05 | 0.0127 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 1@131 | 17.95 | 11.15 | 0.0130 |
| 78 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 67@33 | 20.99 | 14.19 | 0.0262 |
| 78 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 1@1 | 20.93 | 14.13 | 0.0259 |
| 78 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 1@131 | 20.98 | 14.18 | 0.0262 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 81@40 | 23.43 | 16.63 | 0.0460 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.44 | 16.64 | 0.0461 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 1@160 | 23.33 | 16.53 | 0.0450 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 81@40 | 23.41 | 16.61 | 0.0458 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 1@1 | 23.42 | 16.62 | 0.0459 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 1@160 | 23.24 | 16.44 | 0.0441 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 81@40 | 21.44 | 14.64 | 0.0291 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 1@1 | 21.34 | 14.54 | 0.0284 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 1@160 | 21.29 | 14.49 | 0.0281 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 81@40 | 19.81 | 13.01 | 0.0200 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 1@1 | 19.84 | 13.04 | 0.0201 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 1@160 | 19.74 | 12.94 | 0.0197 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 81@40 | 17.87 | 11.07 | 0.0128 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 1@1 | 17.77 | 10.97 | 0.0125 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 1@160 | 17.84 | 11.04 | 0.0127 |
| 78 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 81@40 | 20.92 | 14.12 | 0.0258 |
| 78 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 1@1 | 21.03 | 14.23 | 0.0265 |

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|----|----|----|--------|---------|-----------------------------|-------|-------|-------|--------|
| 78 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 1@160 | 20.89 | 14.09 | 0.0256 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM PI/2 BPSK | 81@40 | 23.51 | 16.71 | 0.0469 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM PI/2 BPSK | 1@1 | 23.52 | 16.72 | 0.0470 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM PI/2 BPSK | 1@160 | 23.25 | 16.45 | 0.0442 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM QPSK | 81@40 | 23.37 | 16.57 | 0.0454 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM QPSK | 1@1 | 23.31 | 16.51 | 0.0448 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM QPSK | 1@160 | 23.25 | 16.45 | 0.0442 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 16 QAM | 81@40 | 21.45 | 14.65 | 0.0292 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 16 QAM | 1@1 | 21.24 | 14.44 | 0.0278 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 16 QAM | 1@160 | 21.19 | 14.39 | 0.0275 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 64 QAM | 81@40 | 19.89 | 13.09 | 0.0204 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 64 QAM | 1@1 | 19.69 | 12.89 | 0.0195 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 64 QAM | 1@160 | 19.76 | 12.96 | 0.0198 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 256 QAM | 81@40 | 17.94 | 11.14 | 0.0130 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 256 QAM | 1@1 | 17.86 | 11.06 | 0.0128 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s- OFDM 256 QAM | 1@160 | 17.87 | 11.07 | 0.0128 |
| 78 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 81@40 | 20.94 | 14.14 | 0.0259 |
| 78 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 20.92 | 14.12 | 0.0258 |
| 78 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 1@160 | 20.85 | 14.05 | 0.0254 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s- OFDM PI/2 BPSK | 81@40 | 23.47 | 16.67 | 0.0465 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s- OFDM PI/2 BPSK | 1@1 | 23.59 | 16.79 | 0.0478 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s- OFDM PI/2 BPSK | 1@160 | 23.44 | 16.64 | 0.0461 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s- OFDM QPSK | 81@40 | 23.46 | 16.66 | 0.0463 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s- OFDM QPSK | 1@1 | 23.5 | 16.7 | 0.0468 |

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|----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 1@160 | 16.44 | 9.64 | 0.0092 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 81@40 | 21.41 | 14.61 | 0.0289 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 1@1 | 21.29 | 14.49 | 0.0281 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 1@160 | 21.33 | 14.53 | 0.0284 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 81@40 | 19.86 | 13.06 | 0.0202 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 1@1 | 19.85 | 13.05 | 0.0202 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 1@160 | 19.73 | 12.93 | 0.0196 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 81@40 | 17.96 | 11.16 | 0.0131 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 1@1 | 17.82 | 11.02 | 0.0126 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 1@160 | 17.86 | 11.06 | 0.0128 |
| 78 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 81@40 | 20.92 | 14.12 | 0.0258 |
| 78 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 1@1 | 20.96 | 14.16 | 0.0261 |
| 78 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 1@160 | 20.76 | 13.96 | 0.0249 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 90@45 | 23.31 | 16.51 | 0.0448 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.27 | 16.47 | 0.0444 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 1@187 | 23.19 | 16.39 | 0.0436 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 90@45 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 1@1 | 23.25 | 16.45 | 0.0442 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 1@187 | 23.31 | 16.51 | 0.0448 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 90@45 | 21.43 | 14.63 | 0.0290 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.33 | 14.53 | 0.0284 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 1@187 | 21.23 | 14.43 | 0.0277 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 90@45 | 19.75 | 12.95 | 0.0197 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 1@1 | 19.73 | 12.93 | 0.0196 |

| QAM | | | | | | | | | |
|-----|----|----|--------|---------|----------------------|-------|-------|-------|--------|
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 1@187 | 19.62 | 12.82 | 0.0191 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 90@45 | 17.79 | 10.99 | 0.0126 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 1@1 | 17.78 | 10.98 | 0.0125 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 1@187 | 17.79 | 10.99 | 0.0126 |
| 78 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 95@47 | 20.74 | 13.94 | 0.0248 |
| 78 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 1@1 | 20.75 | 13.95 | 0.0248 |
| 78 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 1@187 | 20.67 | 13.87 | 0.0244 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 90@45 | 23.39 | 16.59 | 0.0456 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@187 | 23.16 | 16.36 | 0.0433 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 90@45 | 23.26 | 16.46 | 0.0443 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@187 | 23.18 | 16.38 | 0.0435 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 90@45 | 21.22 | 14.42 | 0.0277 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.14 | 14.34 | 0.0272 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@187 | 21.2 | 14.4 | 0.0275 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 90@45 | 19.86 | 13.06 | 0.0202 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 19.71 | 12.91 | 0.0195 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@187 | 19.72 | 12.92 | 0.0196 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 90@45 | 17.86 | 11.06 | 0.0128 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 17.91 | 11.11 | 0.0129 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@187 | 17.55 | 10.75 | 0.0119 |
| 78 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 95@47 | 20.74 | 13.94 | 0.0248 |

| | | | | | | | | | |
|----|----|----|--------|---------|-----------------------------|--------|-------|-------|--------|
| 78 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 20.78 | 13.98 | 0.0250 |
| 78 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 1@187 | 20.66 | 13.86 | 0.0243 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM PI/2 BPSK | 90@45 | 23.47 | 16.67 | 0.0465 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM PI/2 BPSK | 1@1 | 23.35 | 16.55 | 0.0452 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM PI/2 BPSK | 1@187 | 23.23 | 16.43 | 0.0440 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM QPSK | 90@45 | 23.35 | 16.55 | 0.0452 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM QPSK | 1@1 | 23.34 | 16.54 | 0.0451 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM QPSK | 1@187 | 23.13 | 16.33 | 0.0430 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 16 QAM | 90@45 | 21.37 | 14.57 | 0.0286 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 16 QAM | 1@1 | 21.32 | 14.52 | 0.0283 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 16 QAM | 1@187 | 21.28 | 14.48 | 0.0281 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 64 QAM | 90@45 | 19.95 | 13.15 | 0.0207 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 64 QAM | 1@1 | 20 | 13.2 | 0.0209 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 64 QAM | 1@187 | 19.83 | 13.03 | 0.0201 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 256 QAM | 90@45 | 17.82 | 11.02 | 0.0126 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 256 QAM | 1@1 | 17.76 | 10.96 | 0.0125 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s- OFDM 256 QAM | 1@187 | 17.72 | 10.92 | 0.0124 |
| 78 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 95@47 | 20.83 | 14.03 | 0.0253 |
| 78 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 1@1 | 20.88 | 14.08 | 0.0256 |
| 78 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 1@187 | 20.66 | 13.86 | 0.0243 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s- OFDM PI/2 BPSK | 108@54 | 23.28 | 16.48 | 0.0445 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s- OFDM PI/2 BPSK | 1@1 | 23.17 | 16.37 | 0.0434 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s- OFDM PI/2 BPSK | 1@215 | 23.1 | 16.3 | 0.0427 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s- OFDM QPSK | 108@54 | 23.25 | 16.45 | 0.0442 |

| | | | | | | | | | |
|----|----|----|--------|---------|----------------------|--------|-------|-------|--------|
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 1@1 | 23.22 | 16.42 | 0.0439 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 1@215 | 23.08 | 16.28 | 0.0425 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 108@54 | 21.46 | 14.66 | 0.0292 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 1@1 | 21.09 | 14.29 | 0.0269 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 1@215 | 21.14 | 14.34 | 0.0272 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 108@54 | 19.74 | 12.94 | 0.0197 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 1@1 | 19.54 | 12.74 | 0.0188 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 1@215 | 19.85 | 13.05 | 0.0202 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 108@54 | 17.74 | 10.94 | 0.0124 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 1@1 | 17.62 | 10.82 | 0.0121 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 1@215 | 17.73 | 10.93 | 0.0124 |
| 78 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 109@54 | 20.68 | 13.88 | 0.0244 |
| 78 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 1@1 | 20.53 | 13.73 | 0.0236 |
| 78 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 1@215 | 20.67 | 13.87 | 0.0244 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.26 | 16.46 | 0.0443 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.12 | 16.32 | 0.0429 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@215 | 23.18 | 16.38 | 0.0435 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 108@54 | 23.37 | 16.57 | 0.0454 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@215 | 19.21 | 12.41 | 0.0174 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 108@54 | 21.3 | 14.5 | 0.0282 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.22 | 14.42 | 0.0277 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@215 | 21.01 | 14.21 | 0.0264 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 | 108@54 | 19.76 | 12.96 | 0.0198 |

| QAM | | | | | | | | | |
|-----|----|----|--------|---------|----------------------|--------|-------|-------|--------|
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 19.59 | 12.79 | 0.0190 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@215 | 19.59 | 12.79 | 0.0190 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 108@54 | 17.87 | 11.07 | 0.0128 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 17.63 | 10.83 | 0.0121 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@215 | 17.55 | 10.75 | 0.0119 |
| 78 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 109@54 | 20.78 | 13.98 | 0.0250 |
| 78 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 20.74 | 13.94 | 0.0248 |
| 78 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 1@215 | 20.52 | 13.72 | 0.0236 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.47 | 16.67 | 0.0465 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.19 | 16.39 | 0.0436 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 1@215 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 108@54 | 23.28 | 16.48 | 0.0445 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 1@1 | 23.24 | 16.44 | 0.0441 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 1@215 | 22.29 | 15.49 | 0.0354 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 108@54 | 21.43 | 14.63 | 0.0290 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 1@1 | 21.21 | 14.41 | 0.0276 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 1@215 | 21.19 | 14.39 | 0.0275 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 108@54 | 19.92 | 13.12 | 0.0205 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 1@1 | 19.64 | 12.84 | 0.0192 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 1@215 | 19.68 | 12.88 | 0.0194 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 108@54 | 17.84 | 11.04 | 0.0127 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 1@1 | 17.68 | 10.88 | 0.0122 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 1@215 | 17.6 | 10.8 | 0.0120 |

| | | | | | | | | | |
|----|----|----|--------|---------|-----------------------------|--------|-------|-------|--------|
| 78 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 109@54 | 20.85 | 14.05 | 0.0254 |
| 78 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 1@1 | 20.74 | 13.94 | 0.0248 |
| 78 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 1@215 | 20.84 | 14.04 | 0.0254 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM PI/2 BPSK | 120@60 | 23.27 | 16.47 | 0.0444 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM PI/2 BPSK | 1@1 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM PI/2 BPSK | 1@243 | 23.27 | 16.47 | 0.0444 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM QPSK | 120@60 | 23.19 | 16.39 | 0.0436 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM QPSK | 1@1 | 23.22 | 16.42 | 0.0439 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM QPSK | 1@243 | 23.19 | 16.39 | 0.0436 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 16 QAM | 120@60 | 21.42 | 14.62 | 0.0290 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 16 QAM | 1@1 | 21.09 | 14.29 | 0.0269 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 16 QAM | 1@243 | 21.18 | 14.38 | 0.0274 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 64 QAM | 120@60 | 19.74 | 12.94 | 0.0197 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 64 QAM | 1@1 | 19.78 | 12.98 | 0.0199 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 64 QAM | 1@243 | 19.59 | 12.79 | 0.0190 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 256 QAM | 120@60 | 17.82 | 11.02 | 0.0126 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 256 QAM | 1@1 | 17.55 | 10.75 | 0.0119 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s- OFDM 256 QAM | 1@243 | 17.49 | 10.69 | 0.0117 |
| 78 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 123@61 | 20.77 | 13.97 | 0.0249 |
| 78 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 1@1 | 20.68 | 13.88 | 0.0244 |
| 78 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 1@243 | 20.63 | 13.83 | 0.0242 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s- OFDM PI/2 BPSK | 120@60 | 23.28 | 16.48 | 0.0445 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s- OFDM PI/2 BPSK | 1@1 | 23.02 | 16.22 | 0.0419 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s- OFDM PI/2 BPSK | 1@243 | 23.12 | 16.32 | 0.0429 |

| | | | | | | | | | |
|----|----|----|--------|---------|----------------------|--------|-------|-------|--------|
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 120@60 | 23.37 | 16.57 | 0.0454 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.09 | 16.29 | 0.0426 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@243 | 21.68 | 14.88 | 0.0308 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 120@60 | 21.53 | 14.73 | 0.0297 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.28 | 14.48 | 0.0281 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@243 | 21.25 | 14.45 | 0.0279 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 120@60 | 19.87 | 13.07 | 0.0203 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 19.6 | 12.8 | 0.0191 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@243 | 19.79 | 12.99 | 0.0199 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 120@60 | 17.85 | 11.05 | 0.0127 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 17.56 | 10.76 | 0.0119 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@243 | 17.6 | 10.8 | 0.0120 |
| 78 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 123@61 | 20.89 | 14.09 | 0.0256 |
| 78 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 20.65 | 13.85 | 0.0243 |
| 78 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 1@243 | 20.72 | 13.92 | 0.0247 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 120@60 | 23.28 | 16.48 | 0.0445 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.25 | 16.45 | 0.0442 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 1@243 | 23.15 | 16.35 | 0.0432 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 120@60 | 23.41 | 16.61 | 0.0458 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 1@1 | 23.2 | 16.4 | 0.0437 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 1@243 | 23.35 | 16.55 | 0.0452 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 120@60 | 21.13 | 14.33 | 0.0271 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 1@1 | 21.12 | 14.32 | 0.0270 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 1@243 | 21.18 | 14.38 | 0.0274 |

| QAM | | | | | | | | | |
|-----|----|-----|--------|---------|----------------------|--------|-------|-------|--------|
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 120@60 | 19.81 | 13.01 | 0.0200 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 1@1 | 19.61 | 12.81 | 0.0191 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 1@243 | 19.64 | 12.84 | 0.0192 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 120@60 | 17.81 | 11.01 | 0.0126 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 1@1 | 17.62 | 10.82 | 0.0121 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 1@243 | 17.65 | 10.85 | 0.0122 |
| 78 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 123@61 | 20.8 | 14 | 0.0251 |
| 78 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 1@1 | 20.69 | 13.89 | 0.0245 |
| 78 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 1@243 | 20.68 | 13.88 | 0.0244 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 135@67 | 23.38 | 16.58 | 0.0455 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.14 | 16.34 | 0.0431 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@271 | 23.25 | 16.45 | 0.0442 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 135@67 | 23.3 | 16.5 | 0.0447 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.13 | 16.33 | 0.0430 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@271 | 23.23 | 16.43 | 0.0440 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 135@67 | 21.33 | 14.53 | 0.0284 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 21.14 | 14.34 | 0.0272 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@271 | 21.2 | 14.4 | 0.0275 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 135@67 | 19.87 | 13.07 | 0.0203 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 19.61 | 12.81 | 0.0191 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@271 | 19.66 | 12.86 | 0.0193 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 135@67 | 17.86 | 11.06 | 0.0128 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 17.75 | 10.95 | 0.0124 |

| | | | | | | | | | |
|-----------|----|-----|--------|---------|--------------------|--------|-------|-------|--------|
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@271 | 17.8 | 11 | 0.0126 |
| 78 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 137@68 | 20.86 | 14.06 | 0.0255 |
| 78 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 20.64 | 13.84 | 0.0242 |
| 78 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 1@271 | 20.71 | 13.91 | 0.0246 |

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Note: Pre-scanned harmonic for the different antenna combinations for EN-DC mode, we choose the worst antenna mode to test.

| SA n77 / NR 100MHz / QPSK DFT-s-OFDM / ANT4(NR) | | | | | | | | |
|---|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 6906 | -62.66 | -13 | -49.66 | -73.14 | 2.76 | 13.24 | H |
| | 10362 | -59.65 | -13 | -46.65 | -69.24 | 3.42 | 13.01 | H |
| | 13824 | -58.22 | -13 | -45.22 | -67.83 | 3.83 | 13.44 | H |
| | 6906 | -58.66 | -13 | -45.66 | -69.10 | 2.80 | 13.24 | V |
| | 10362 | -59.92 | -13 | -46.92 | -69.47 | 3.46 | 13.01 | V |
| | 13824 | -58.08 | -13 | -45.08 | -67.64 | 3.88 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| SA n78 / NR 100MHz / QPSK DFT-s-OFDM / ANT4(NR) | | | | | | | | |
|---|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 6900 | -62.80 | -13 | -49.80 | -73.28 | 2.76 | 13.24 | H |
| | 10368 | -59.45 | -13 | -46.45 | -69.04 | 3.42 | 13.01 | H |
| | 13818 | -57.56 | -13 | -44.56 | -67.17 | 3.83 | 13.44 | H |
| | 6900 | -59.86 | -13 | -46.86 | -70.30 | 2.80 | 13.24 | V |
| | 10368 | -59.82 | -13 | -46.82 | -69.37 | 3.46 | 13.01 | V |
| | 13818 | -58.90 | -13 | -45.90 | -68.46 | 3.88 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_5A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT4(NR) | | | | | | | | |
|--|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 6912 | -61.92 | -13 | -48.92 | -72.40 | 2.76 | 13.24 | H |
| | 10368 | -58.35 | -13 | -45.35 | -67.94 | 3.42 | 13.01 | H |
| | 13818 | -58.53 | -13 | -45.53 | -68.14 | 3.83 | 13.44 | H |
| | 6912 | -61.93 | -13 | -48.93 | -72.37 | 2.80 | 13.24 | V |
| | 10368 | -59.92 | -13 | -46.92 | -69.47 | 3.46 | 13.01 | V |
| | 13818 | -58.88 | -13 | -45.88 | -68.44 | 3.88 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-DC_7A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT4(NR) | | | | | | | | |
|--|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 6900 | -61.62 | -13 | -48.62 | -72.10 | 2.76 | 13.24 | H |
| | 10368 | -59.66 | -13 | -46.66 | -69.25 | 3.42 | 13.01 | H |
| | 13818 | -58.67 | -13 | -45.67 | -68.28 | 3.83 | 13.44 | H |
| | 6900 | -59.56 | -13 | -46.56 | -70.00 | 2.80 | 13.24 | V |
| | 10368 | -58.84 | -13 | -45.84 | -68.39 | 3.46 | 13.01 | V |
| | 13818 | -59.04 | -13 | -46.04 | -68.60 | 3.88 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_38A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT4(NR) | | | | | | | | |
|---|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 6900 | -62.61 | -13 | -49.61 | -73.09 | 2.76 | 13.24 | H |
| | 10368 | -59.57 | -13 | -46.57 | -69.16 | 3.42 | 13.01 | H |
| | 13818 | -57.38 | -13 | -44.38 | -66.99 | 3.83 | 13.44 | H |
| | 6900 | -58.44 | -13 | -45.44 | -68.88 | 2.80 | 13.24 | V |
| | 10368 | -60.19 | -13 | -47.19 | -69.74 | 3.46 | 13.01 | V |
| | 13818 | -58.66 | -13 | -45.66 | -68.22 | 3.88 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.