

Appendix B.2

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|------------|-------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#0 | 22.46 | 24.46 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#2 | 22.39 | 24.39 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#5 | 22.5 | 24.5 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 21.43 | 23.43 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#0 | 22.79 | 24.79 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#2 | 22.92 | 24.92 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#5 | 22.83 | 24.83 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 21.75 | 23.75 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#0 | 22.57 | 24.57 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#2 | 22.77 | 24.77 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#5 | 22.66 | 24.66 | 30 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 21.68 | 23.68 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#0 | 21.45 | 23.45 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#2 | 21.14 | 23.14 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#5 | 21.34 | 23.34 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 20.47 | 22.47 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#0 | 21.25 | 23.25 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#2 | 21.29 | 23.29 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#5 | 21.33 | 23.33 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 20.8 | 22.8 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#0 | 21.78 | 23.78 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2 | 21.69 | 23.69 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5 | 21.16 | 23.16 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 20.79 | 22.79 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#0 | 20.75 | 22.75 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#2 | 20.76 | 22.76 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#5 | 20.77 | 22.77 | 30 | PASS |



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

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|-------|--------|-------|-------|--------|-------|-------|----|------|
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 19.49 | 21.49 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0 | 20.47 | 22.47 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#2 | 20.88 | 22.88 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#5 | 20.48 | 22.48 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 19.7 | 21.7 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0 | 20.47 | 22.47 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#2 | 20.74 | 22.74 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#5 | 21.05 | 23.05 | 30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 19.6 | 21.6 | 30 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#0 | 22.84 | 24.84 | 30 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#8 | 22.41 | 24.41 | 30 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#14 | 22.56 | 24.56 | 30 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 21.55 | 23.55 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#0 | 22.69 | 24.69 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#8 | 22.61 | 24.61 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#14 | 22.79 | 24.79 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 21.78 | 23.78 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#0 | 22.87 | 24.87 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#8 | 22.48 | 24.48 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#14 | 22.75 | 24.75 | 30 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 21.7 | 23.7 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0 | 21.07 | 23.07 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8 | 21.18 | 23.18 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 21.52 | 23.52 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 20.55 | 22.55 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0 | 21.24 | 23.24 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8 | 21.08 | 23.08 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14 | 21.1 | 23.1 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 20.85 | 22.85 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0 | 21.56 | 23.56 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8 | 21.22 | 23.22 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14 | 21.36 | 23.36 | 30 | PASS |



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|-------|------|-------|-------|--------|-------|-------|----|------|
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 20.77 | 22.77 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#0 | 20.29 | 22.29 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#8 | 20.27 | 22.27 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#14 | 20.64 | 22.64 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 19.76 | 21.76 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#0 | 20.99 | 22.99 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#8 | 20.69 | 22.69 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#14 | 20.7 | 22.7 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 19.73 | 21.73 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#0 | 20.71 | 22.71 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#8 | 20.59 | 22.59 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#14 | 20.87 | 22.87 | 30 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 19.78 | 21.78 | 30 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#0 | 22.68 | 24.68 | 30 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#12 | 22.57 | 24.57 | 30 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#24 | 22.29 | 24.29 | 30 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 21.57 | 23.57 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#0 | 22.67 | 24.67 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#12 | 22.8 | 24.8 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#24 | 22.7 | 24.7 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 21.67 | 23.67 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#0 | 22.66 | 24.66 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#12 | 22.73 | 24.73 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#24 | 22.62 | 24.62 | 30 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 21.74 | 23.74 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0 | 21.22 | 23.22 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 21.7 | 23.7 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 20.96 | 22.96 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 20.66 | 22.66 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0 | 21.19 | 23.19 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12 | 21.95 | 23.95 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24 | 21.68 | 23.68 | 30 | PASS |



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|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 20.85 | 22.85 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0 | 21.81 | 23.81 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#12 | 21.5 | 23.5 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#24 | 21.43 | 23.43 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 20.83 | 22.83 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#0 | 20.56 | 22.56 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#12 | 20.76 | 22.76 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#24 | 20.21 | 22.21 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 25RB#0 | 19.44 | 21.44 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#0 | 21.07 | 23.07 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#12 | 20.81 | 22.81 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#24 | 20.66 | 22.66 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 25RB#0 | 19.96 | 21.96 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#0 | 20.82 | 22.82 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#12 | 20.74 | 22.74 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#24 | 20.89 | 22.89 | 30 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 25RB#0 | 19.9 | 21.9 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#0 | 22.72 | 24.72 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#24 | 22.76 | 24.76 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#49 | 22.64 | 24.64 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 21.58 | 23.58 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#0 | 22.64 | 24.64 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#24 | 23.01 | 25.01 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#49 | 22.64 | 24.64 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 21.67 | 23.67 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#0 | 22.6 | 24.6 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#24 | 22.82 | 24.82 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#49 | 22.79 | 24.79 | 30 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 21.78 | 23.78 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0 | 21.32 | 23.32 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 21.48 | 23.48 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 21.88 | 23.88 | 30 | PASS |



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|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 20.47 | 22.47 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0 | 21.45 | 23.45 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 21.24 | 23.24 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 21.34 | 23.34 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 20.75 | 22.75 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0 | 21.03 | 23.03 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 21.71 | 23.71 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 21.3 | 23.3 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 20.85 | 22.85 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#0 | 20.27 | 22.27 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#24 | 20.54 | 22.54 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#49 | 20.42 | 22.42 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 19.59 | 21.59 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#0 | 20.78 | 22.78 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#24 | 20.99 | 22.99 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#49 | 20.86 | 22.86 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 19.76 | 21.76 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#0 | 20.28 | 22.28 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#24 | 20.67 | 22.67 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#49 | 20.58 | 22.58 | 30 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 19.84 | 21.84 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#0 | 22.63 | 24.63 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#38 | 22.72 | 24.72 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#74 | 22.71 | 24.71 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 21.59 | 23.59 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#0 | 22.4 | 24.4 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#38 | 22.87 | 24.87 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#74 | 22.55 | 24.55 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 21.75 | 23.75 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#0 | 22.26 | 24.26 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#38 | 22.76 | 24.76 | 30 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#74 | 22.73 | 24.73 | 30 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 21.69 | 23.69 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0 | 21.64 | 23.64 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38 | 21.82 | 23.82 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74 | 21.86 | 23.86 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 20.56 | 22.56 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0 | 21.25 | 23.25 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38 | 21.14 | 23.14 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74 | 21.07 | 23.07 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 20.69 | 22.69 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0 | 21.55 | 23.55 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38 | 21.12 | 23.12 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74 | 21.62 | 23.62 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 20.75 | 22.75 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#0 | 20.67 | 22.67 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#38 | 20.51 | 22.51 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#74 | 20.82 | 22.82 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0 | 19.56 | 21.56 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#0 | 20.78 | 22.78 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#38 | 20.92 | 22.92 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#74 | 20.38 | 22.38 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0 | 19.59 | 21.59 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#0 | 20.26 | 22.26 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#38 | 20.9 | 22.9 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#74 | 20.52 | 22.52 | 30 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0 | 19.65 | 21.65 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#0 | 22.54 | 24.54 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#49 | 22.59 | 24.59 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#99 | 22.91 | 24.91 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 21.56 | 23.56 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#0 | 22.37 | 24.37 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#49 | 22.97 | 24.97 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#99 | 22.44 | 24.44 | 30 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 21.66 | 23.66 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#0 | 22.77 | 24.77 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#49 | 22.85 | 24.85 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#99 | 22.53 | 24.53 | 30 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 21.66 | 23.66 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0 | 21.01 | 23.01 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49 | 21.47 | 23.47 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99 | 21.97 | 23.97 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 20.62 | 22.62 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0 | 20.95 | 22.95 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49 | 21.36 | 23.36 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99 | 21.56 | 23.56 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 20.72 | 22.72 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0 | 21.34 | 23.34 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49 | 21.84 | 23.84 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99 | 21.29 | 23.29 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 20.59 | 22.59 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#0 | 20.17 | 22.17 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#49 | 20.71 | 22.71 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#99 | 20.35 | 22.35 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 19.61 | 21.61 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#0 | 20.64 | 22.64 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#49 | 20.99 | 22.99 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#99 | 20.51 | 22.51 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 19.68 | 21.68 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#0 | 20.89 | 22.89 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#49 | 20.92 | 22.92 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#99 | 20.92 | 22.92 | 30 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 19.68 | 21.68 | 30 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

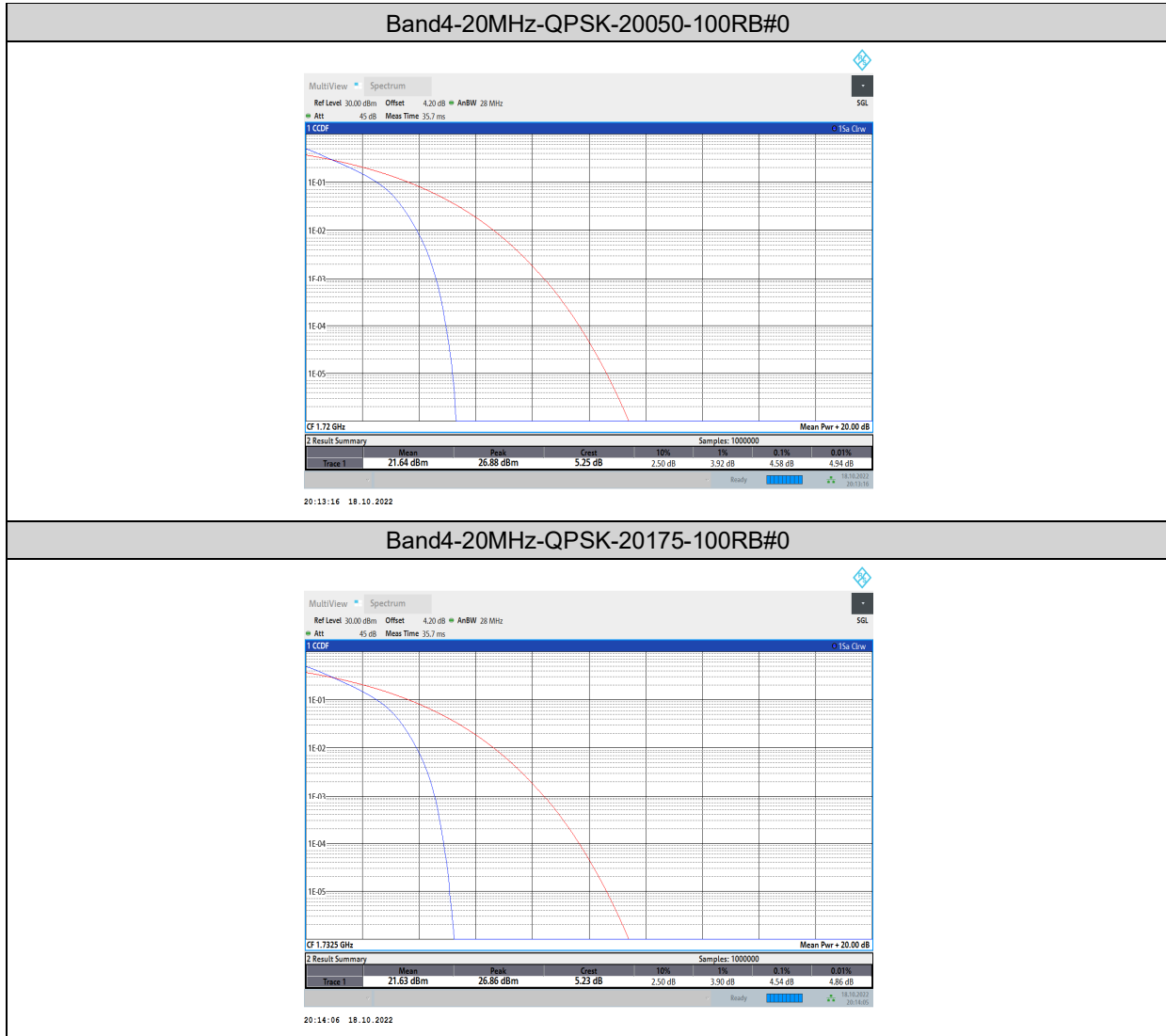
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 4.58 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 4.54 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 4.58 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 5.40 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 5.32 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 5.34 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 6.80 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 6.78 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 6.82 | 13 | PASS |



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Test Graphs

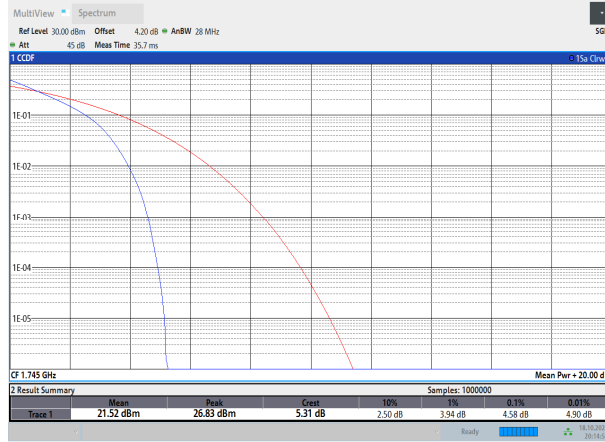


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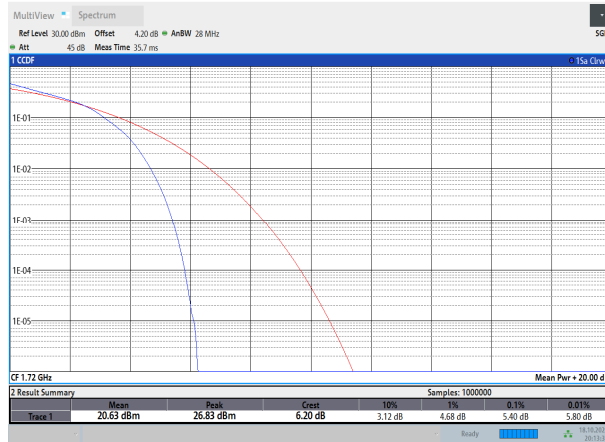
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Band4-20MHz-QPSK-20300-100RB#0



20:14:55 18.10.2022

Band4-20MHz-16QAM-20050-100RB#0



20:13:33 18.10.2022

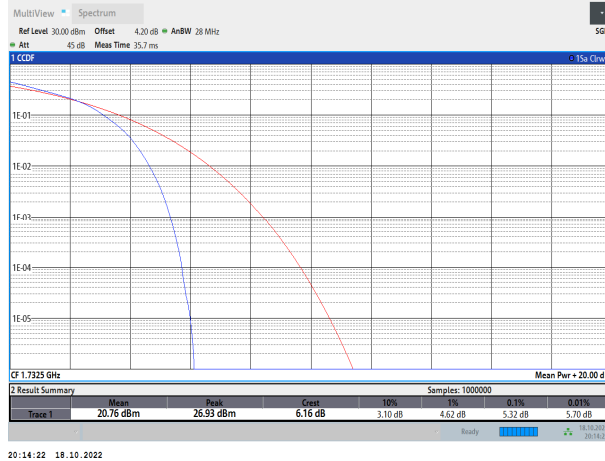


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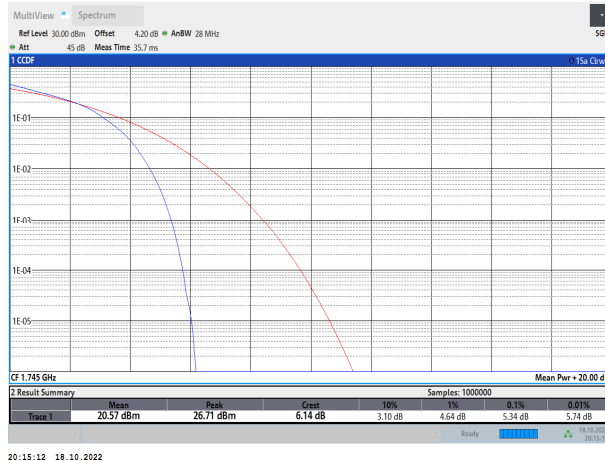
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Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0

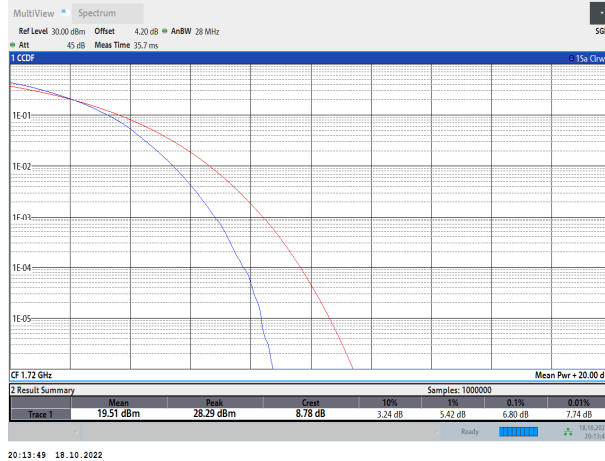


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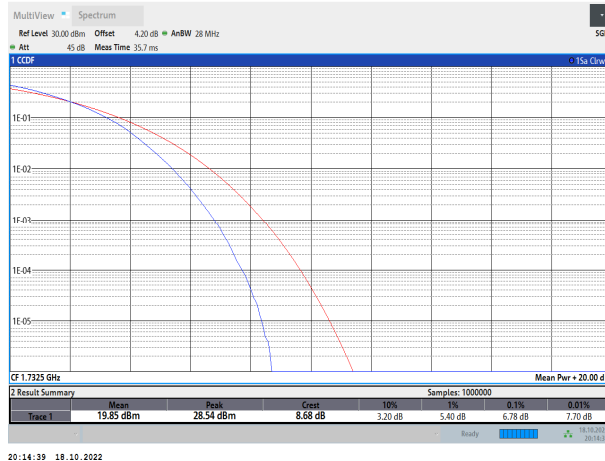
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Band4-20MHz-64QAM-20050-100RB#0



20:13:49 18.10.2022

Band4-20MHz-64QAM-20175-100RB#0



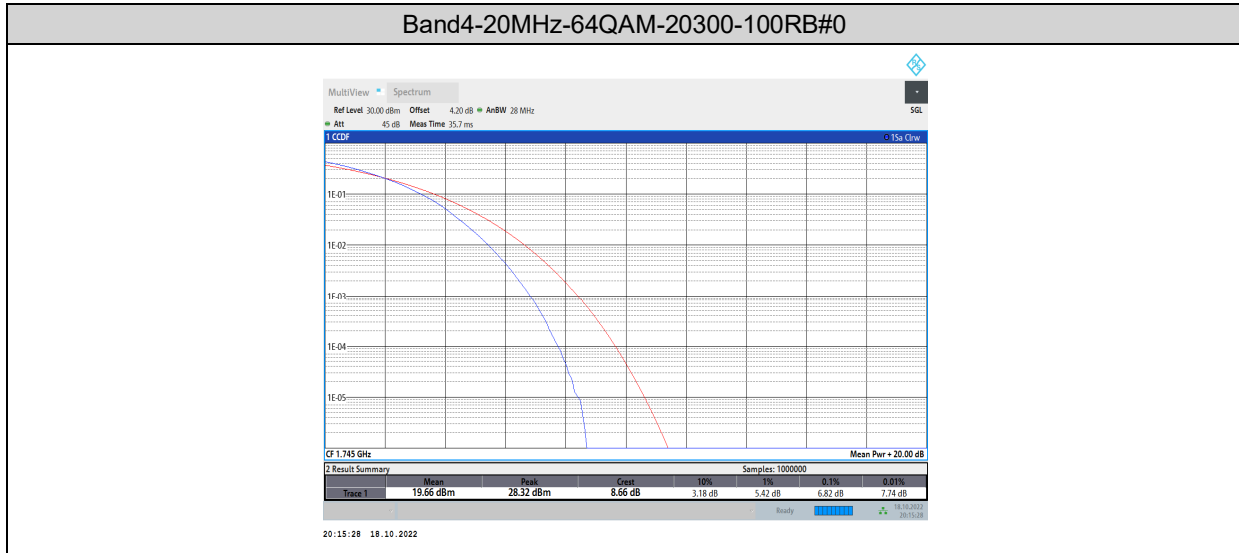
20:14:39 18.10.2022



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Modulation Characteristics

Test Result

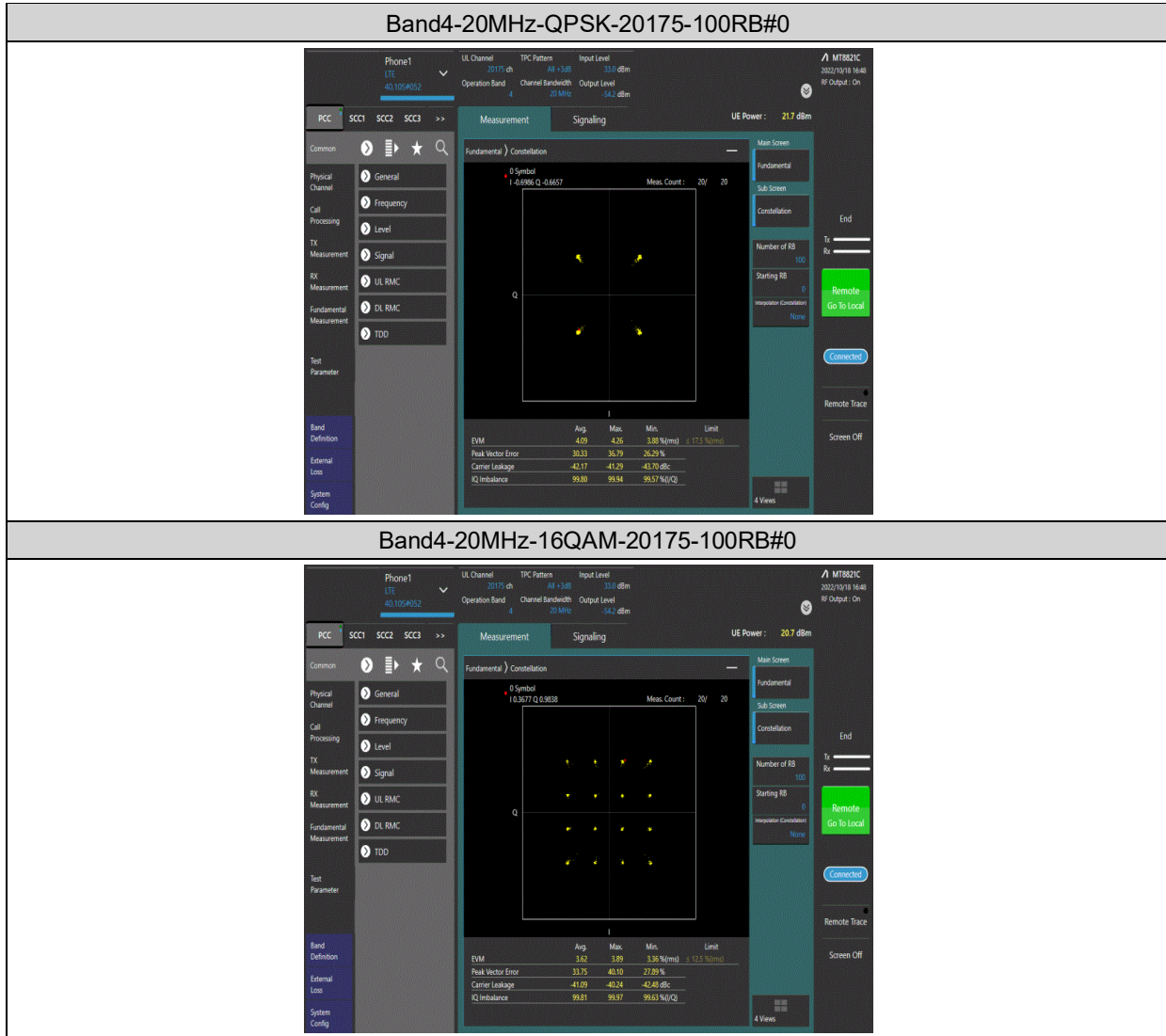
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | PASS | PASS |



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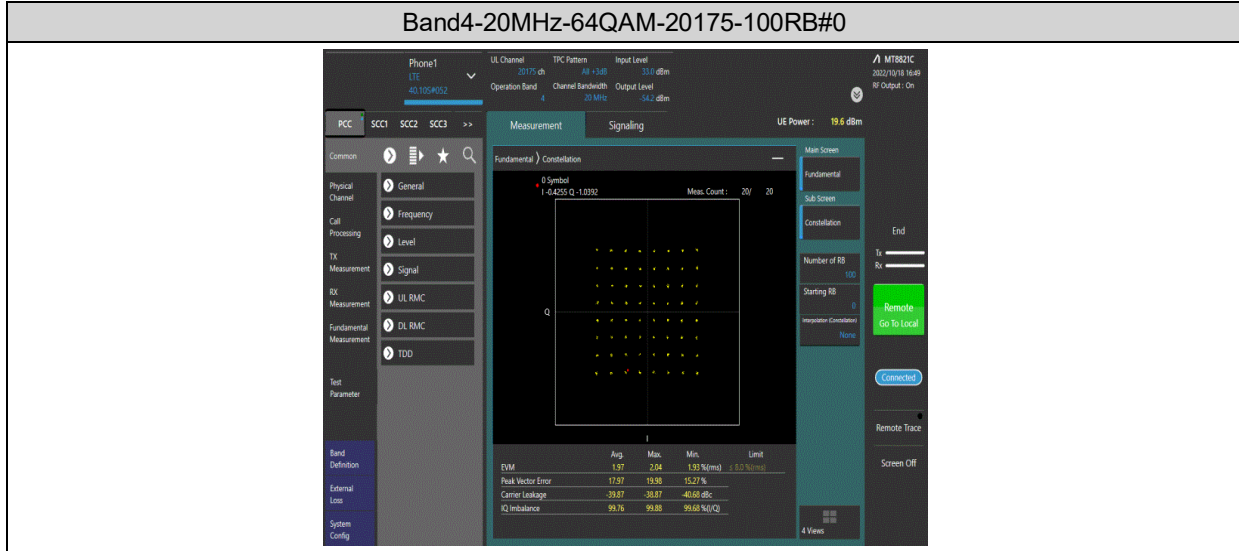
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 1.088 | 1.31 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 1.087 | 1.30 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 1.087 | 1.31 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 1.099 | 1.32 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 1.098 | 1.31 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 1.097 | 1.31 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 1.096 | 1.30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 1.096 | 1.30 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 1.096 | 1.30 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 2.694 | 2.95 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 2.693 | 2.97 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 2.691 | 2.96 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 2.687 | 2.98 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 2.689 | 2.98 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 2.687 | 2.99 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 2.688 | 2.95 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 2.691 | 2.96 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 2.689 | 2.96 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 4.468 | 4.89 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 4.47 | 4.90 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 4.469 | 4.91 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 4.472 | 4.96 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 4.469 | 4.96 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 4.468 | 4.97 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 25RB#0 | 4.48 | 4.94 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 25RB#0 | 4.476 | 4.93 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 25RB#0 | 4.477 | 4.95 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 8.918 | 9.74 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 8.911 | 9.74 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 8.916 | 9.76 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 8.912 | 9.72 | PASS |



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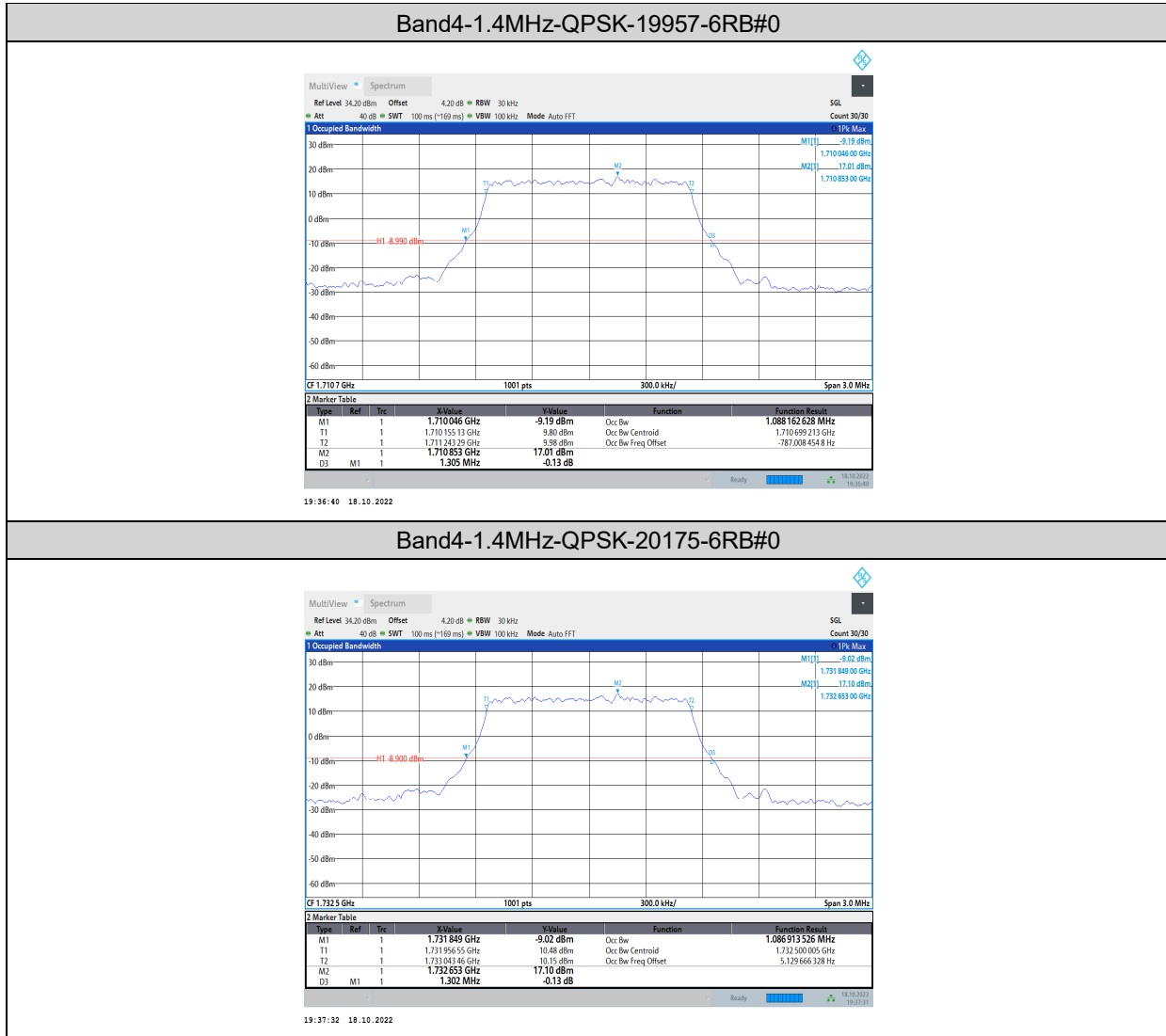
| | | | | | | | |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 8.908 | 9.70 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 8.908 | 9.68 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 8.926 | 9.62 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 8.925 | 9.68 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 8.917 | 9.72 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 13.451 | 14.70 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 13.441 | 14.73 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 13.427 | 14.73 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 13.424 | 14.85 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 13.422 | 14.76 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 13.431 | 14.82 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0 | 13.42 | 14.85 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0 | 13.402 | 14.79 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0 | 13.401 | 14.79 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 17.901 | 19.52 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 17.881 | 19.56 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 17.879 | 19.56 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.882 | 19.56 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.822 | 19.44 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.847 | 19.40 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 17.883 | 19.44 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 17.837 | 19.36 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 17.851 | 19.44 | PASS |



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Test Graphs

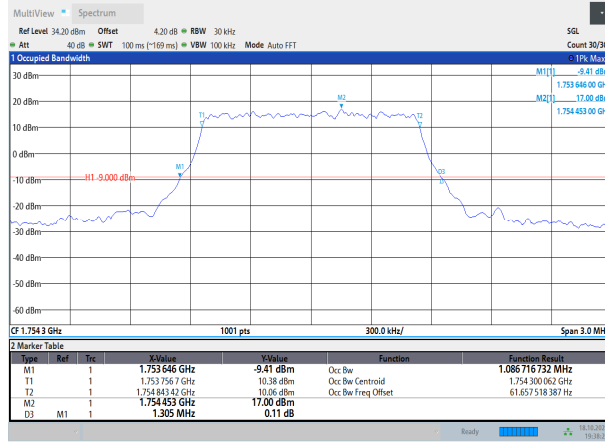


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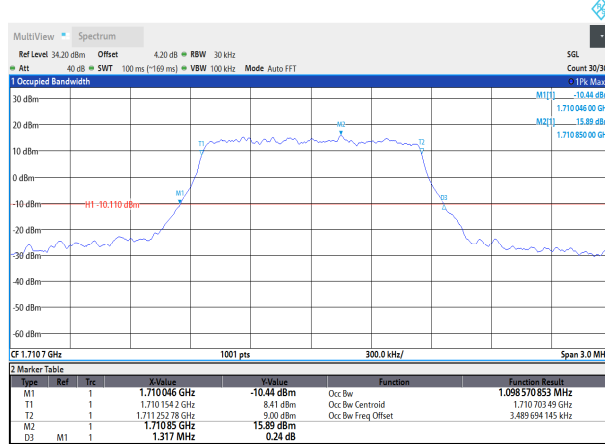
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Band4-1.4MHz-QPSK-20393-6RB#0



Band4-1.4MHz-16QAM-19957-6RB#0

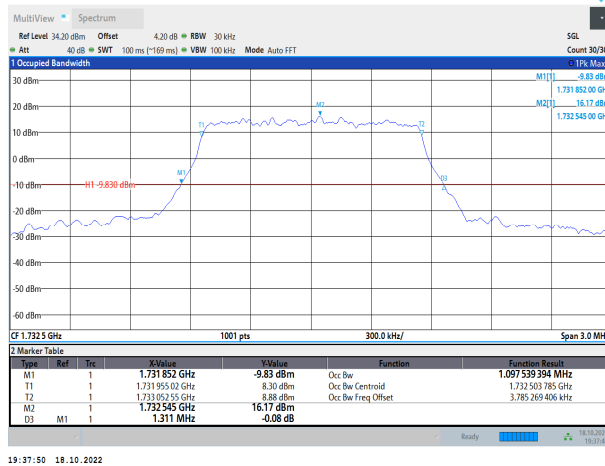


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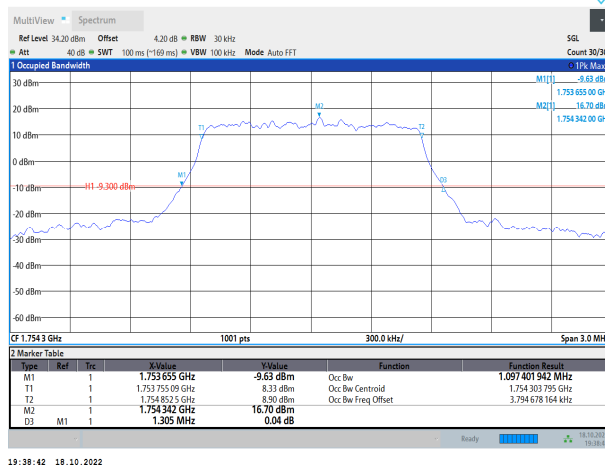
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Band4-1.4MHz-16QAM-20175-6RB#0



Band4-1.4MHz-16QAM-20393-6RB#0

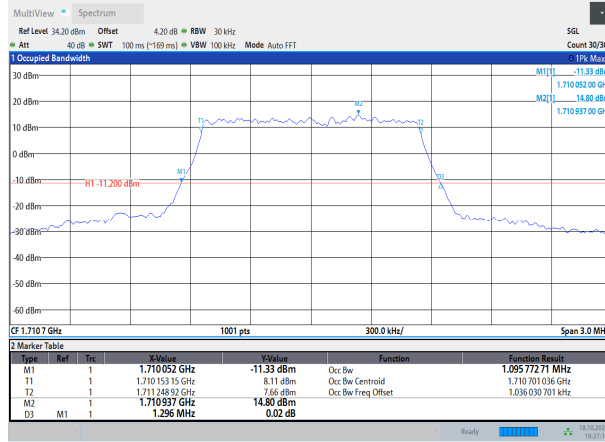


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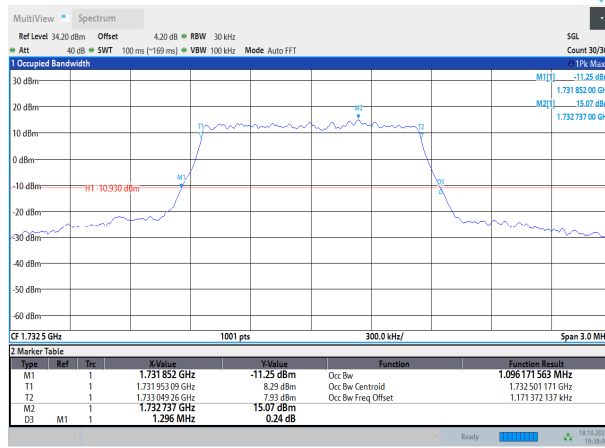
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Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20175-6RB#0



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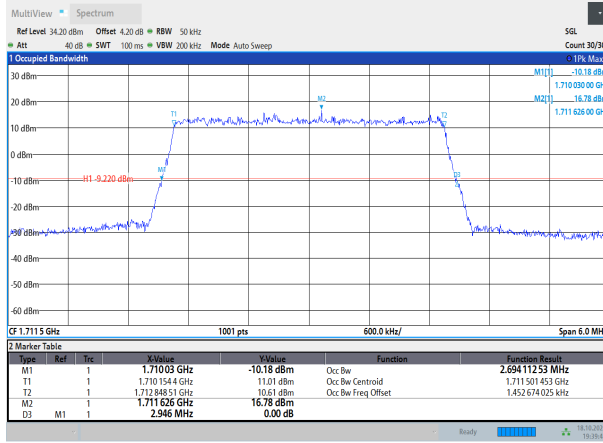
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Band4-1.4MHz-64QAM-20393-6RB#0



19:38:59 18.10.2022

Band4-3MHz-QPSK-19965-15RB#0



19:39:41 18.10.2022

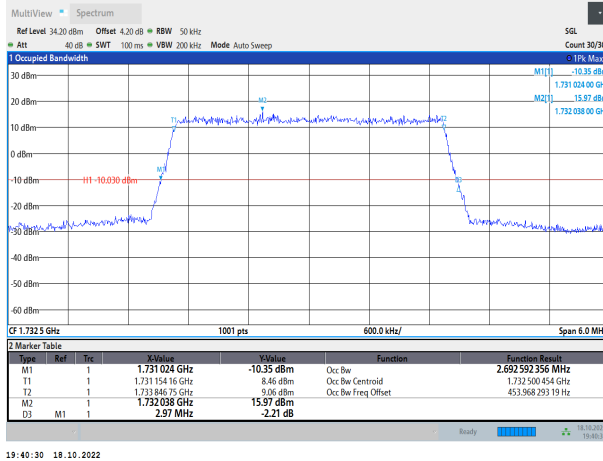


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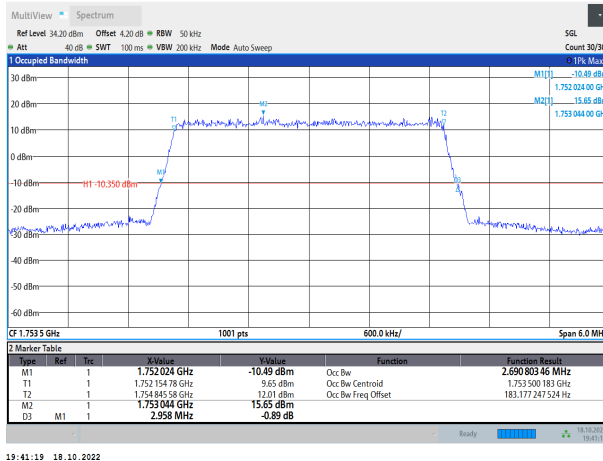
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Band4-3MHz-QPSK-20175-15RB#0



19:40:30 18.10.2022

Band4-3MHz-QPSK-20385-15RB#0



19:41:19 18.10.2022

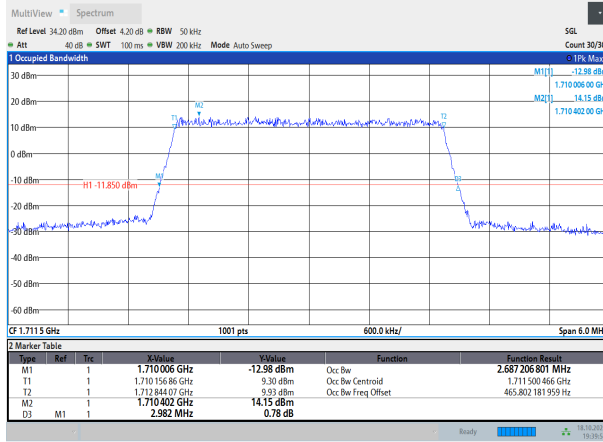


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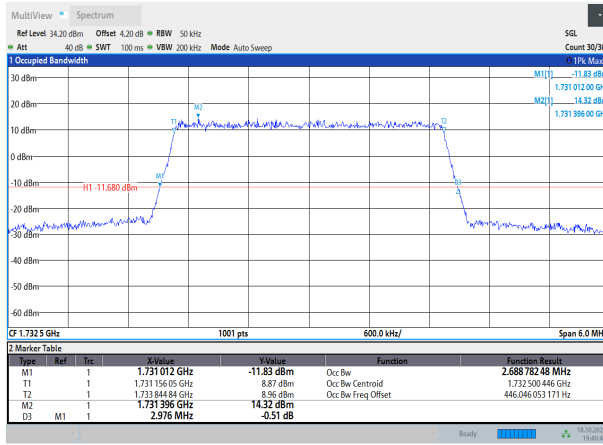
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Band4-3MHz-16QAM-19965-15RB#0



Band4-3MHz-16QAM-20175-15RB#0

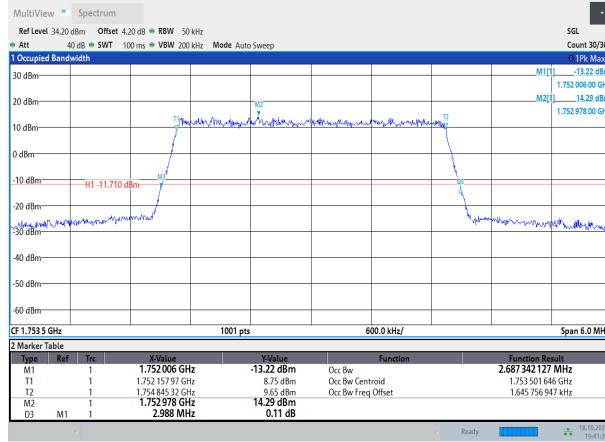


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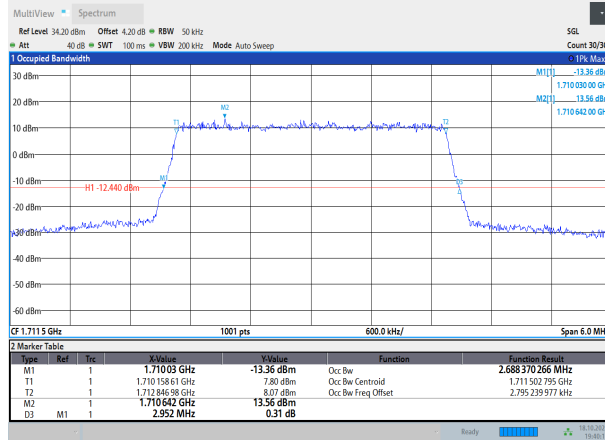
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Band4-3MHz-16QAM-20385-15RB#0



19:41:35 18.10.2022

Band4-3MHz-64QAM-19965-15RB#0



19:40:14 18.10.2022

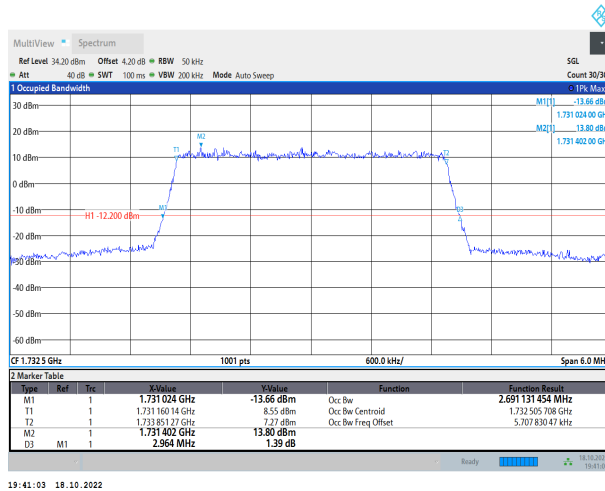


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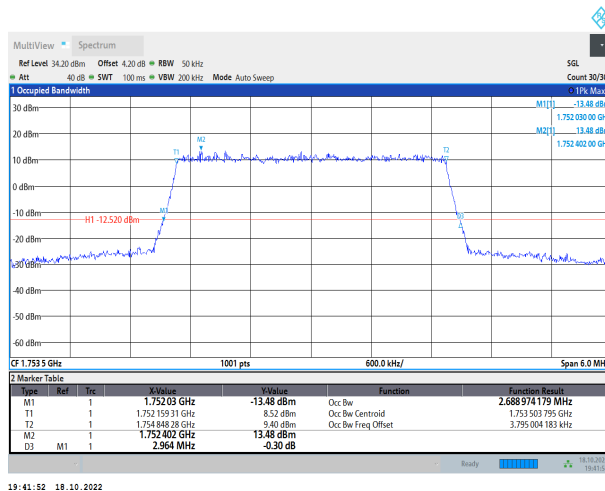
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Band4-3MHz-64QAM-20175-15RB#0



Band4-3MHz-64QAM-20385-15RB#0

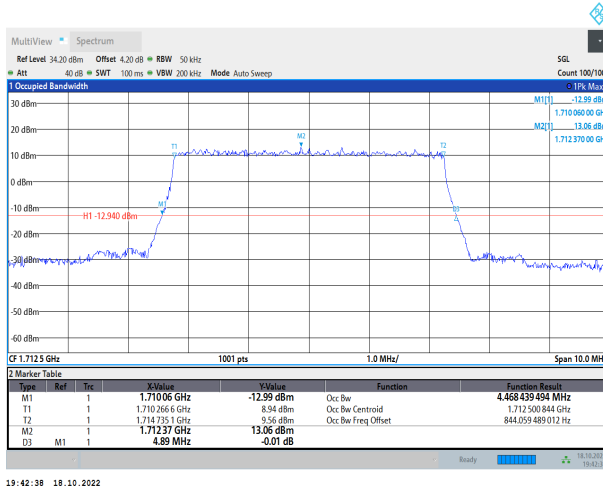


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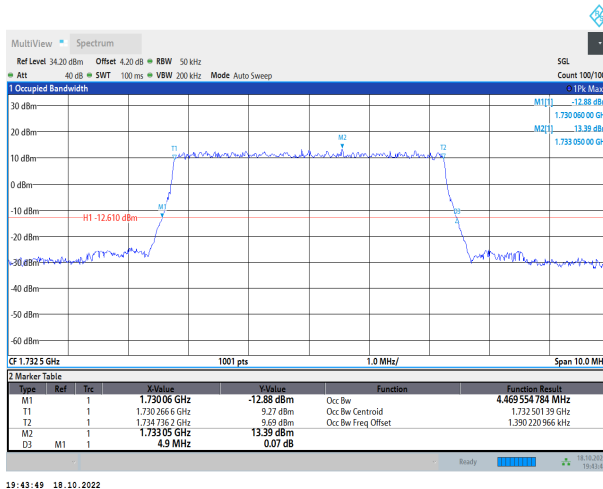
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Band4-5MHz-QPSK-19975-25RB#0



19:42:38 18.10.2022

Band4-5MHz-QPSK-20175-25RB#0



19:43:49 18.10.2022

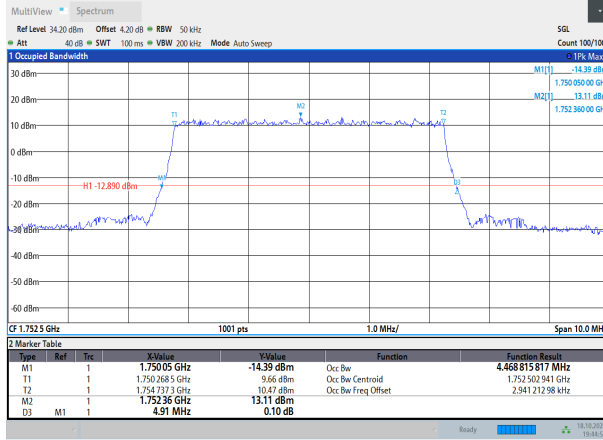


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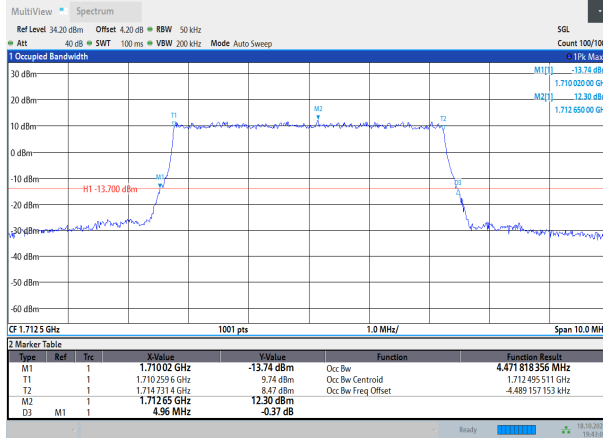
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Band4-5MHz-QPSK-20375-25RB#0



19:44:59 18.10.2022

Band4-5MHz-16QAM-19975-25RB#0



19:43:02 18.10.2022

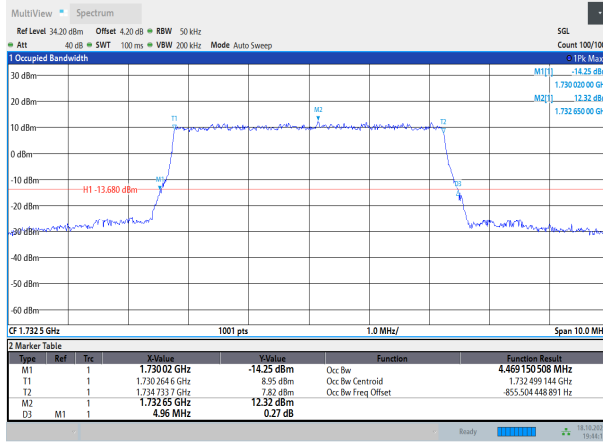


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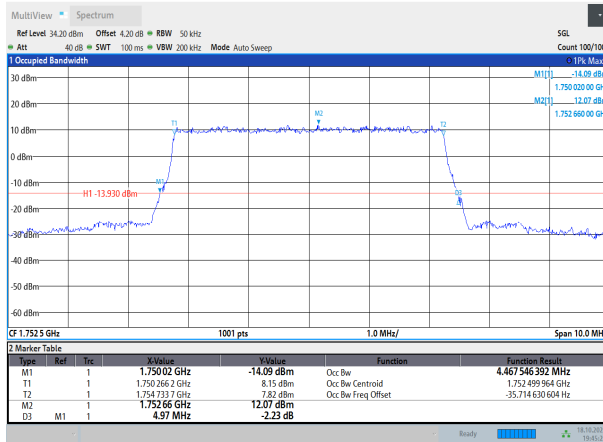
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Band4-5MHz-16QAM-20175-25RB#0



19:44:12 18.10.2022

Band4-5MHz-16QAM-20375-25RB#0



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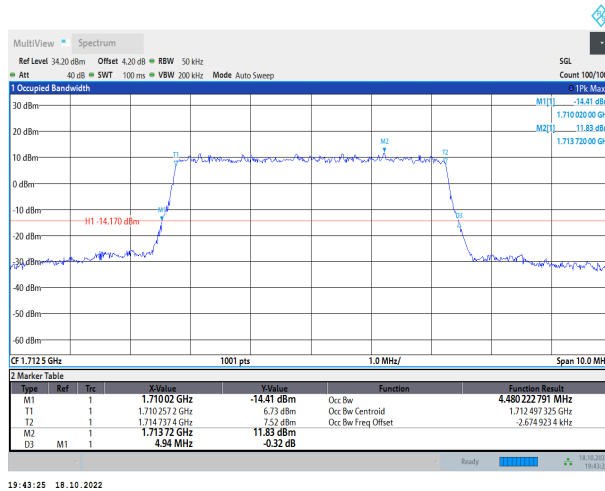


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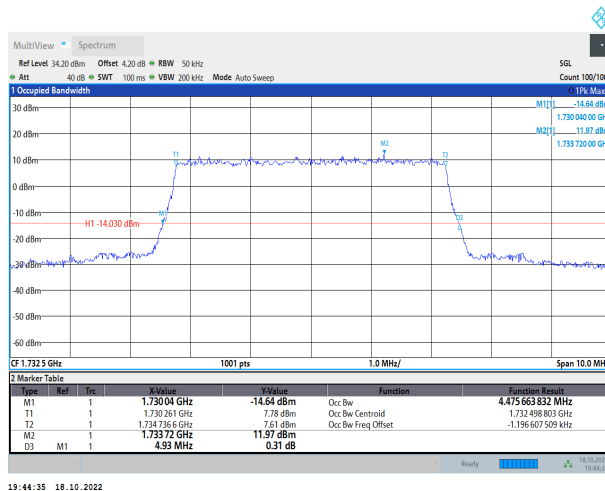
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Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20175-25RB#0

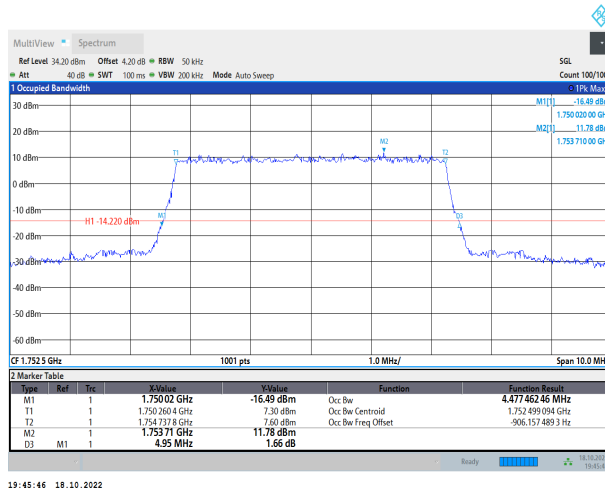


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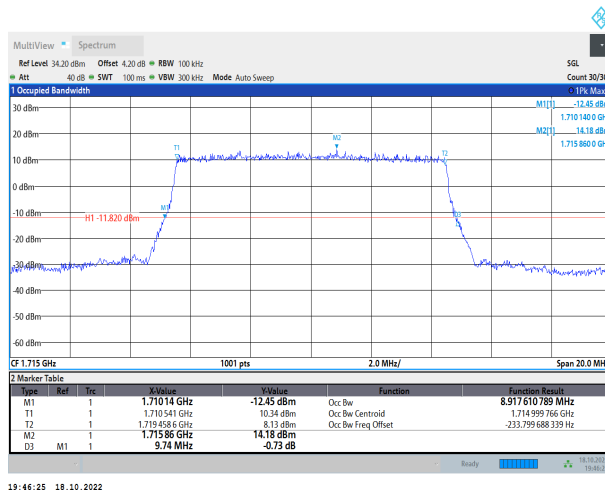
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Band4-5MHz-64QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-50RB#0

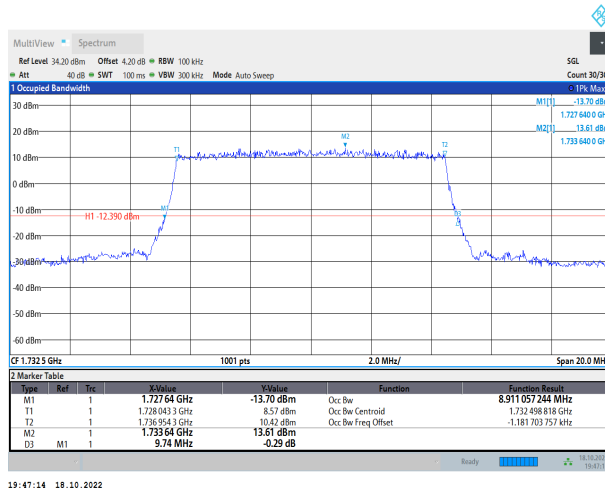


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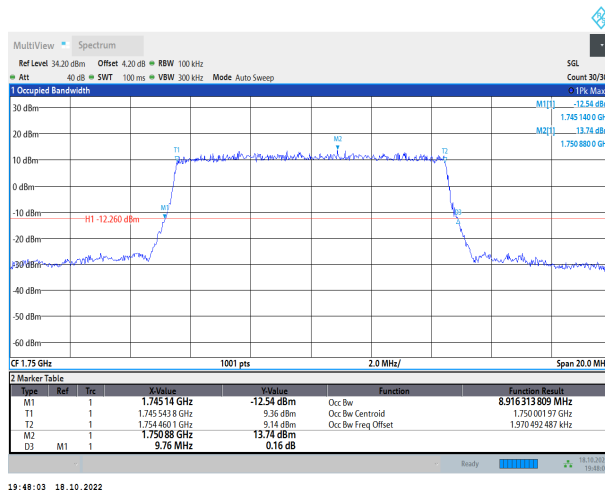
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Band4-10MHz-QPSK-20175-50RB#0



Band4-10MHz-QPSK-20350-50RB#0

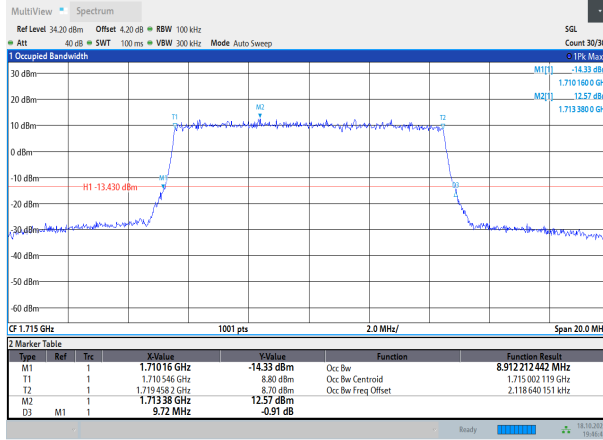


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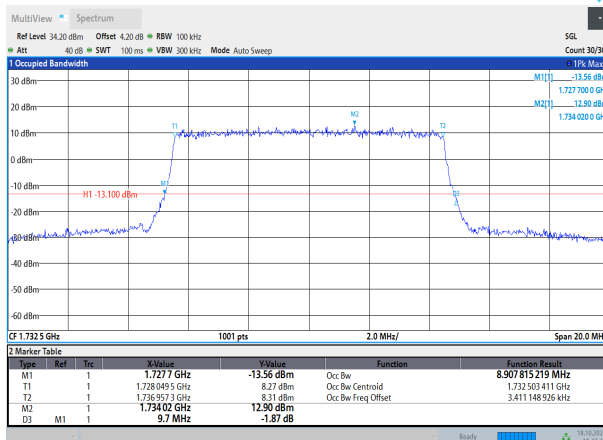
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Band4-10MHz-16QAM-20000-50RB#0



19:46:41 18.10.2022

Band4-10MHz-16QAM-20175-50RB#0



19:47:31 18.10.2022

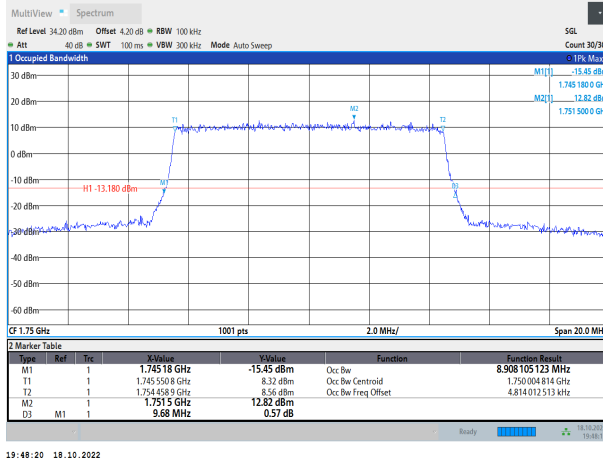


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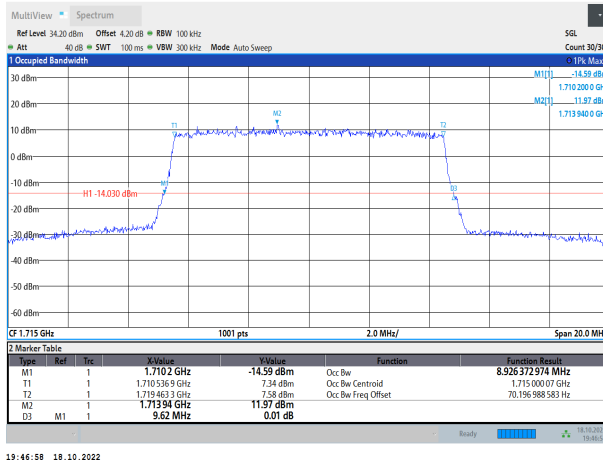
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Band4-10MHz-64QAM-20000-50RB#0

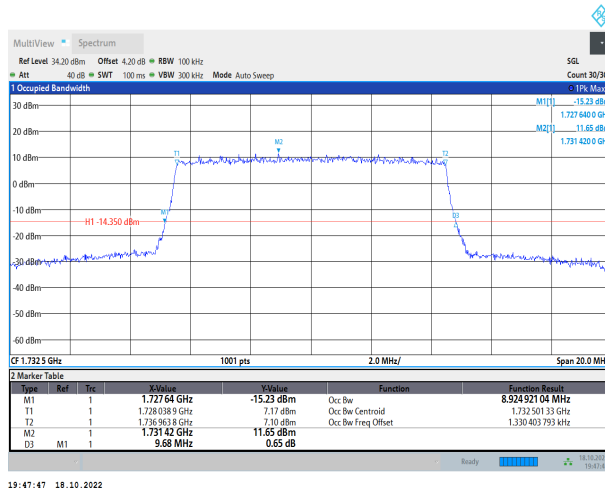


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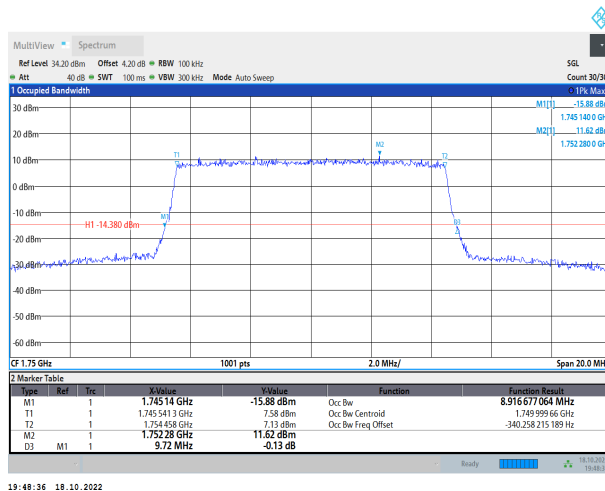
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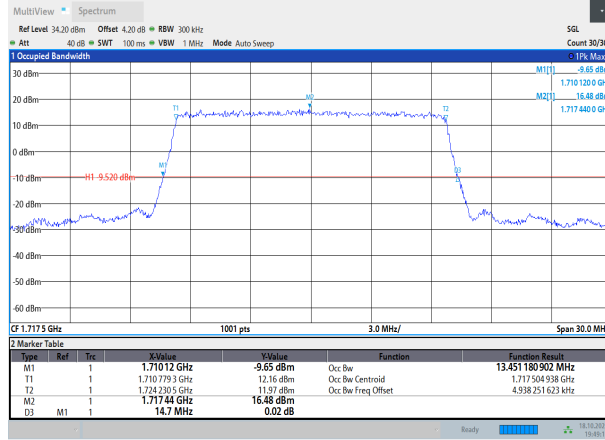


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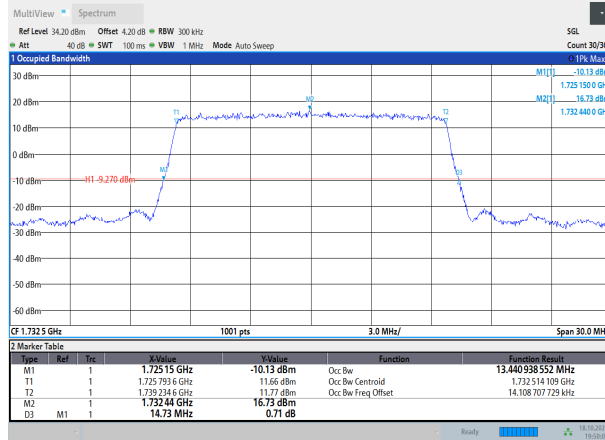
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Band4-15MHz-QPSK-20025-75RB#0



19:49:17 18.10.2022

Band4-15MHz-QPSK-20175-75RB#0



19:50:06 18.10.2022

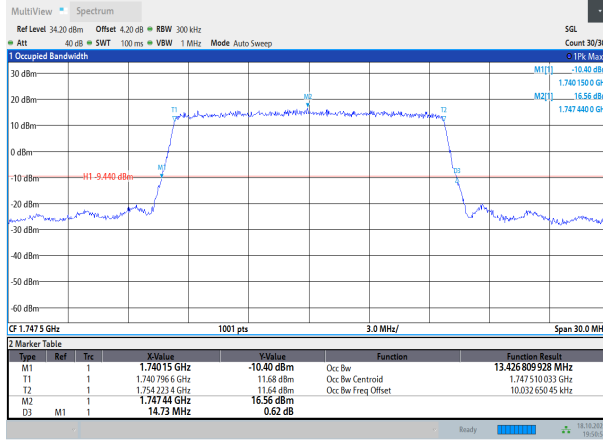


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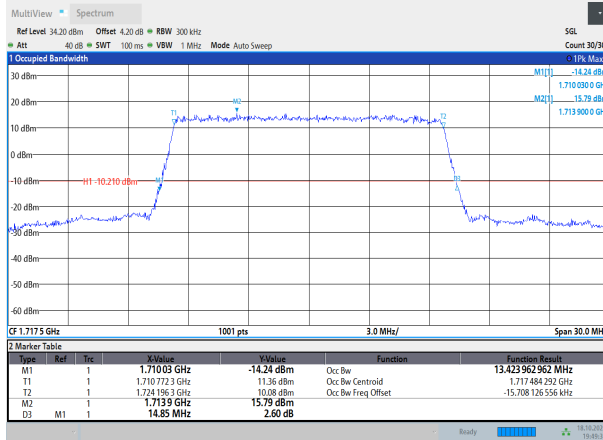
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Band4-15MHz-QPSK-20325-75RB#0



19:50:55 18.10.2022

Band4-15MHz-16QAM-20025-75RB#0



19:49:33 18.10.2022

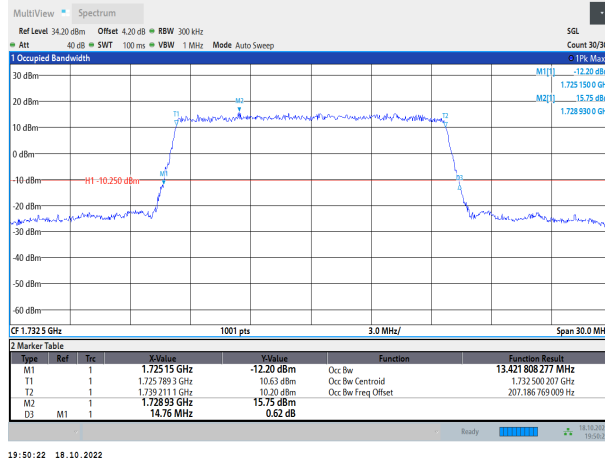


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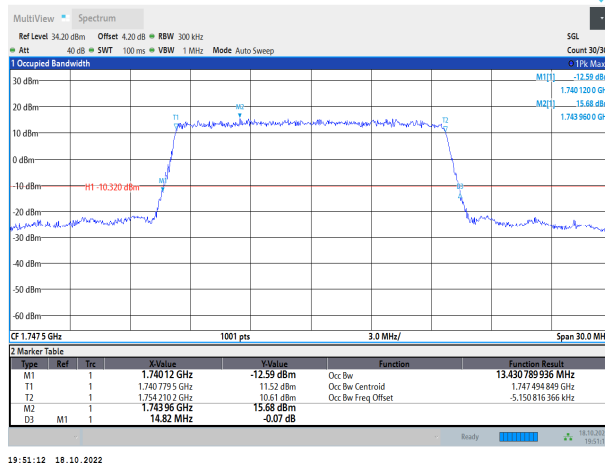
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Band4-15MHz-16QAM-20325-75RB#0

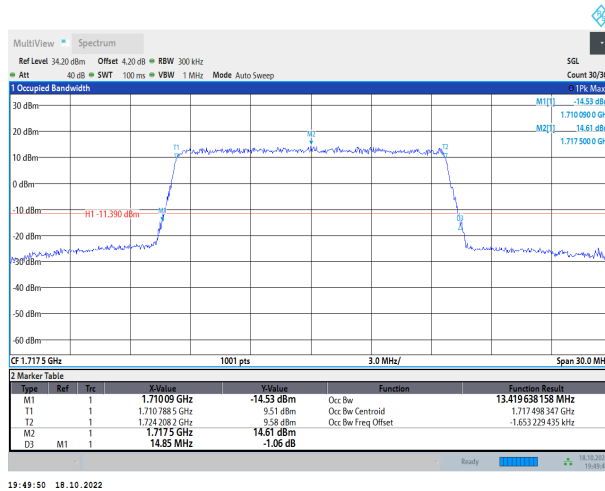


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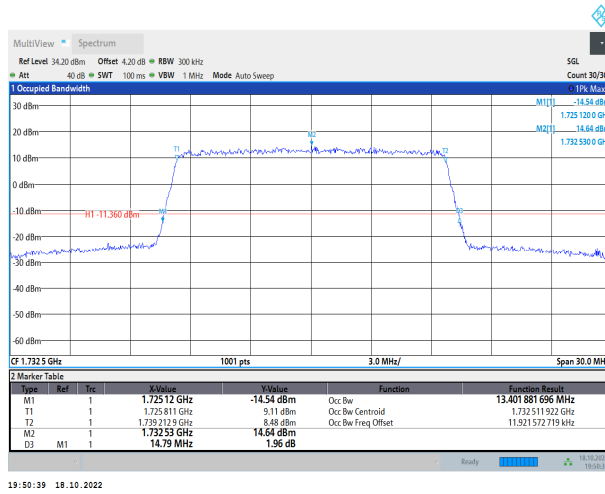
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Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20175-75RB#0

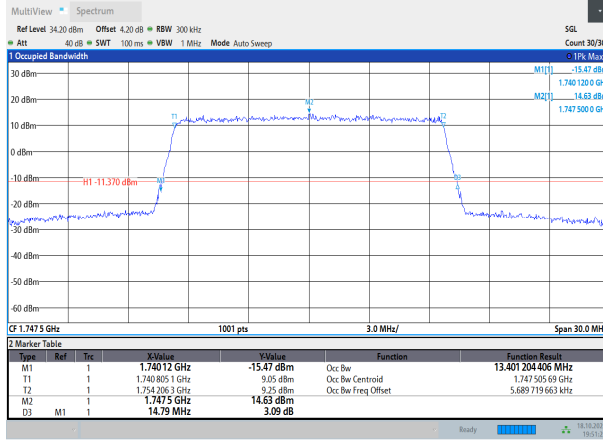


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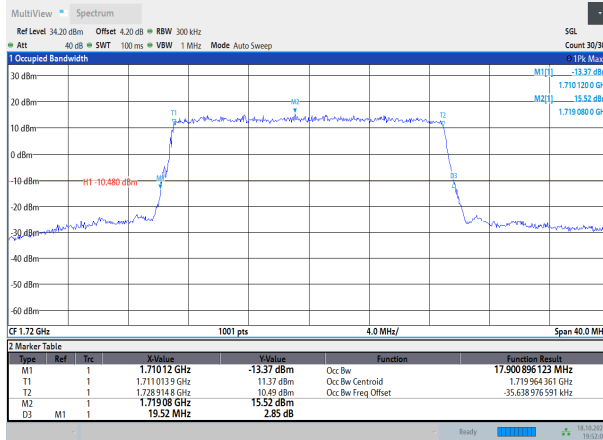
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19:51:28 18.10.2022

Band4-20MHz-QPSK-20050-100RB#0



19:52:07 18.10.2022

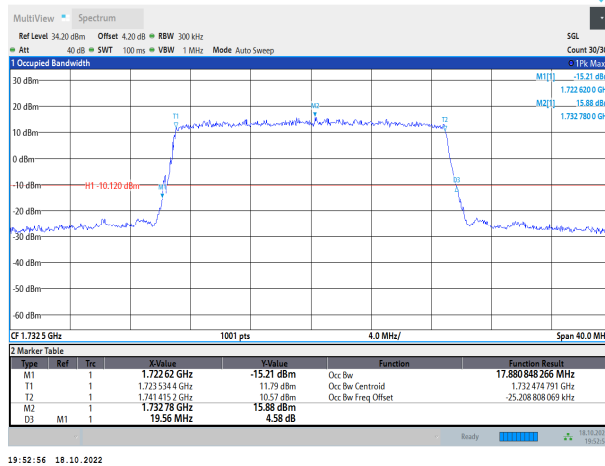


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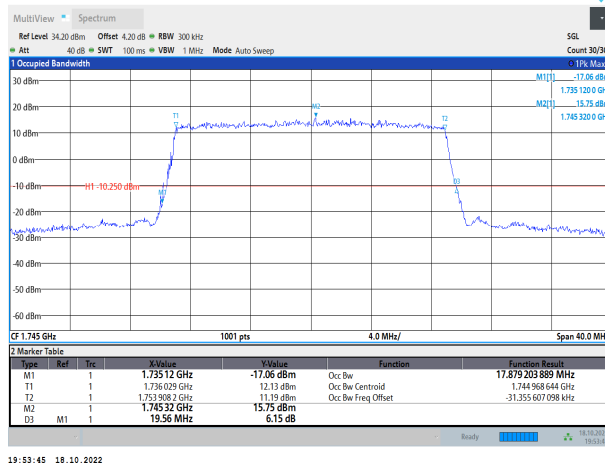
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Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-100RB#0

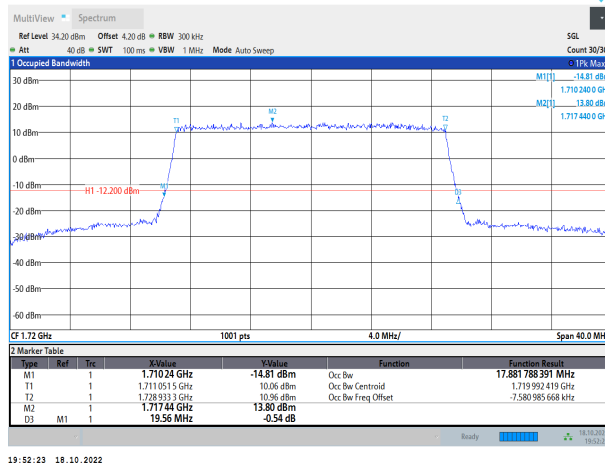


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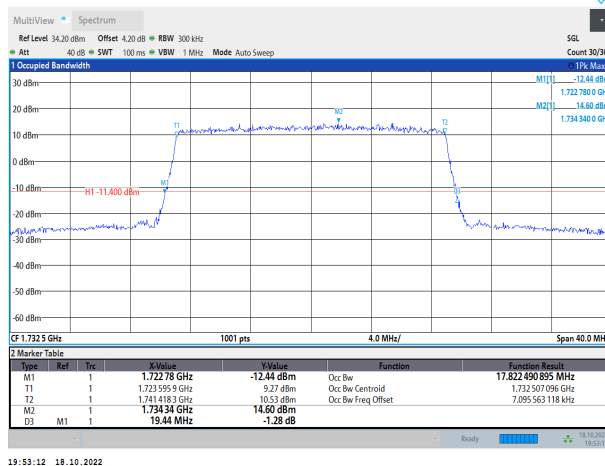
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Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-100RB#0

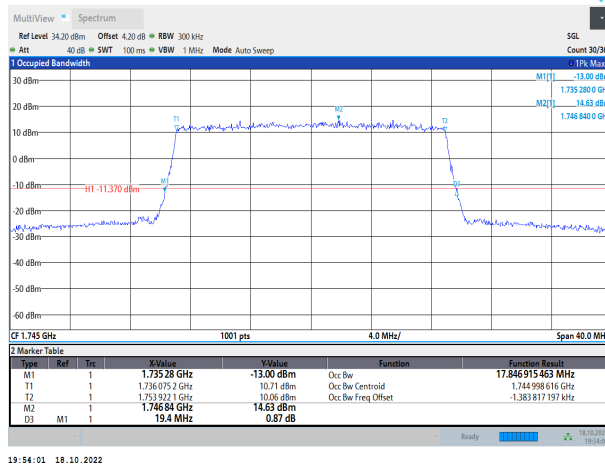


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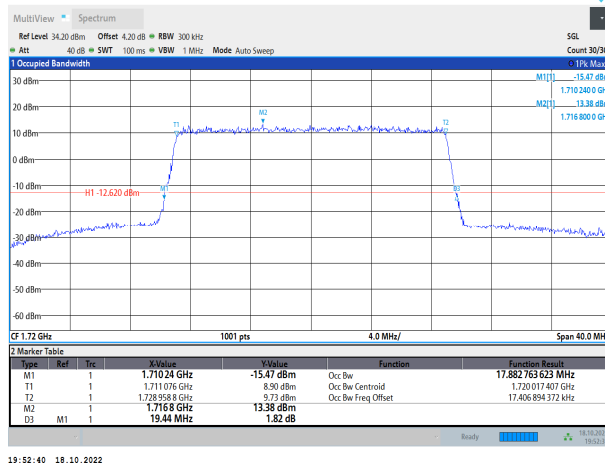
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Band4-20MHz-16QAM-20300-100RB#0



Band4-20MHz-64QAM-20050-100RB#0

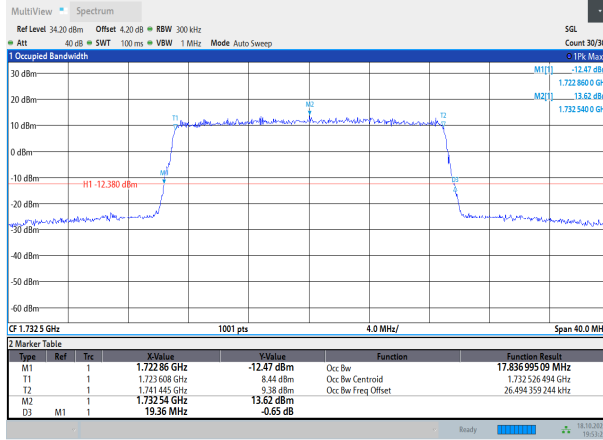


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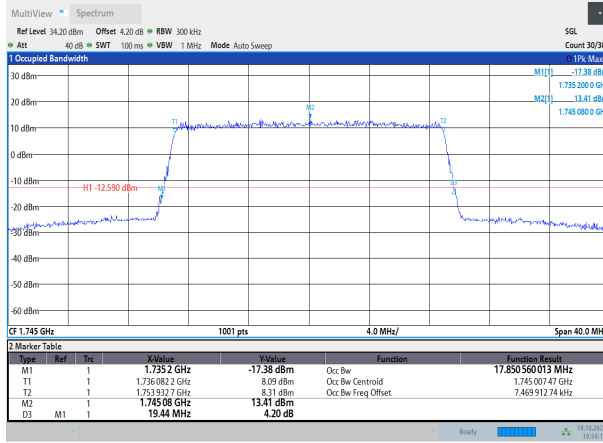
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Band4-20MHz-64QAM-20175-100RB#0



Band4-20MHz-64QAM-20300-100RB#0



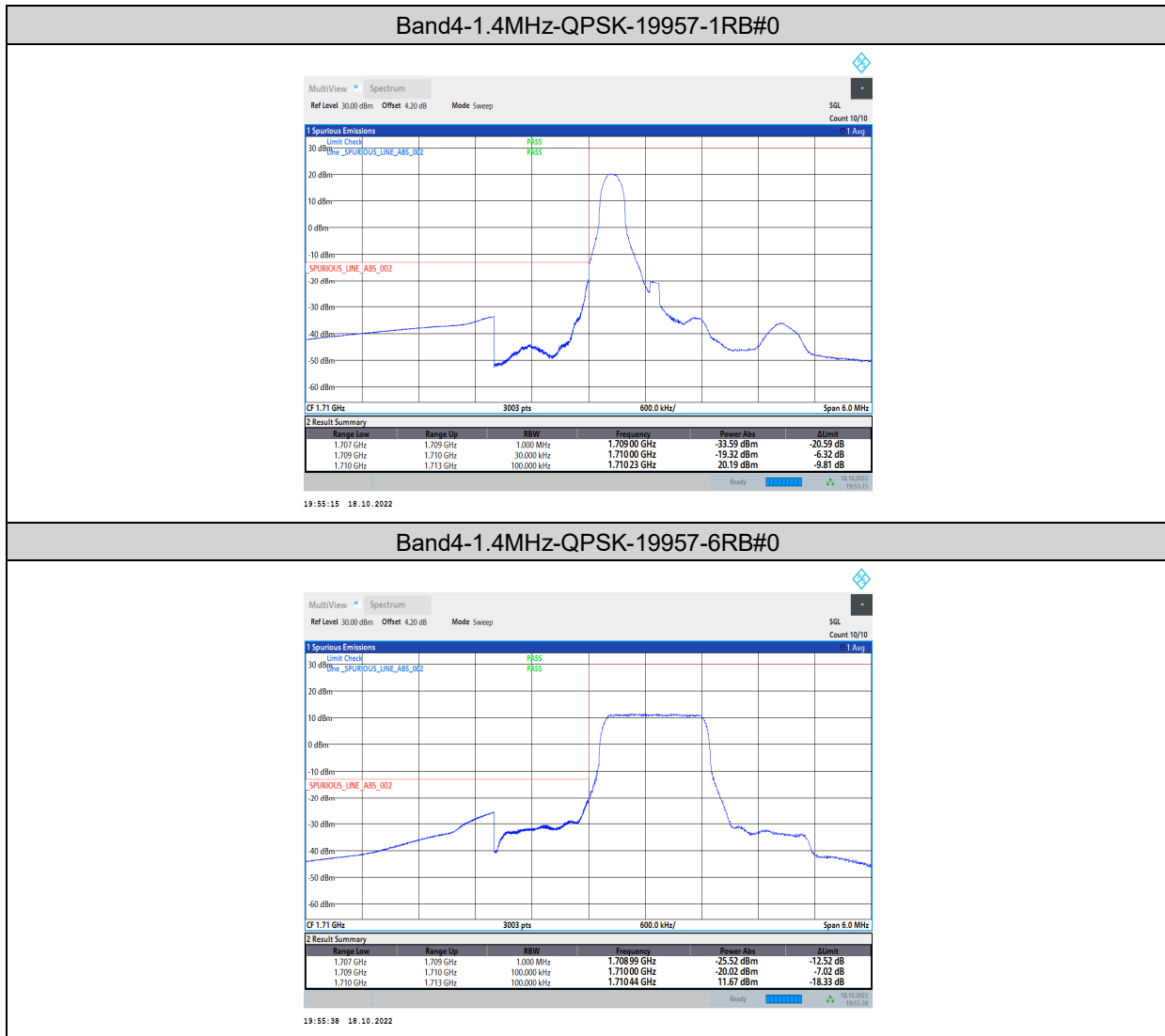
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Band Edge

Test Graphs

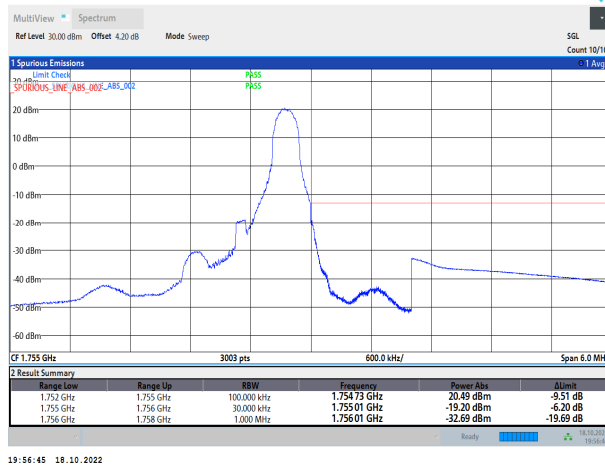


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Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0

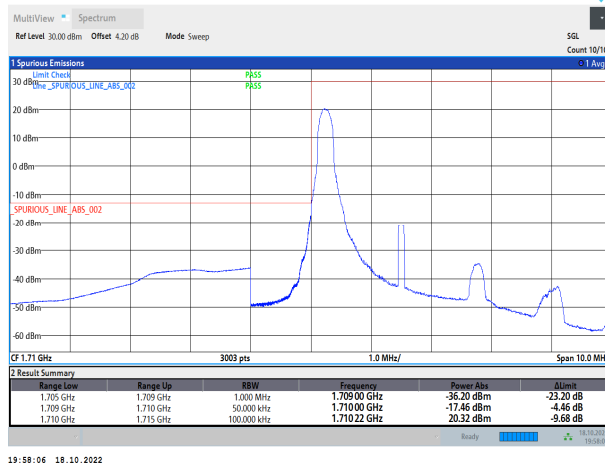


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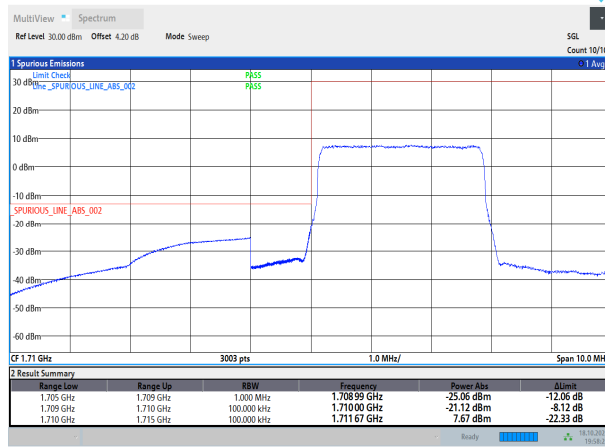
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Band4-3MHz-QPSK-19965-1RB#0



19:58:06 18.10.2022

Band4-3MHz-QPSK-19965-15RB#0



19:58:30 18.10.2022

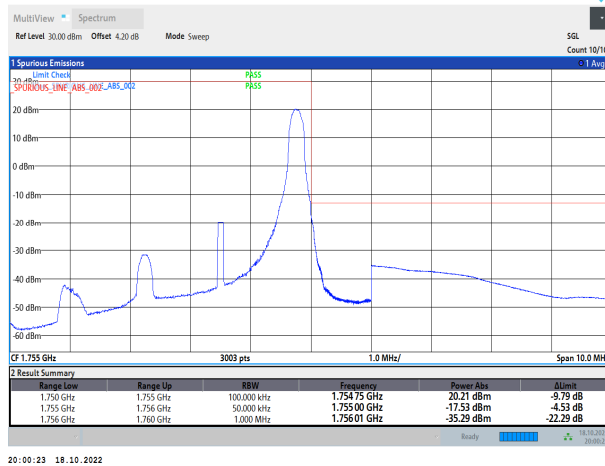


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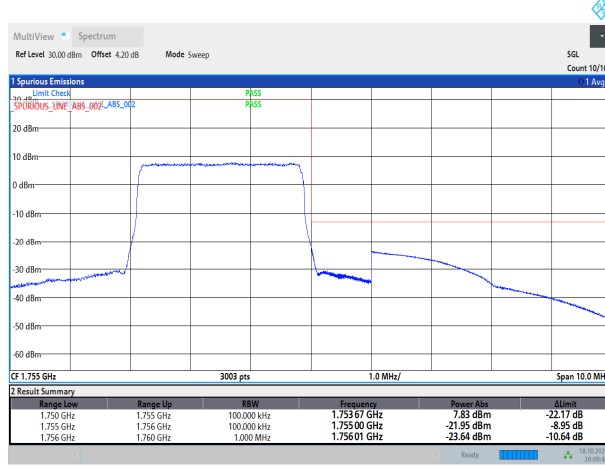
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Band4-3MHz-QPSK-20385-1RB#14



20:00:23 18.10.2022

Band4-3MHz-QPSK-20385-15RB#0



20:00:46 18.10.2022

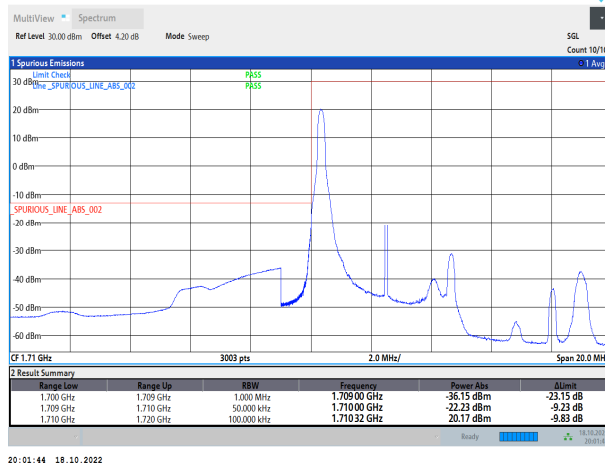


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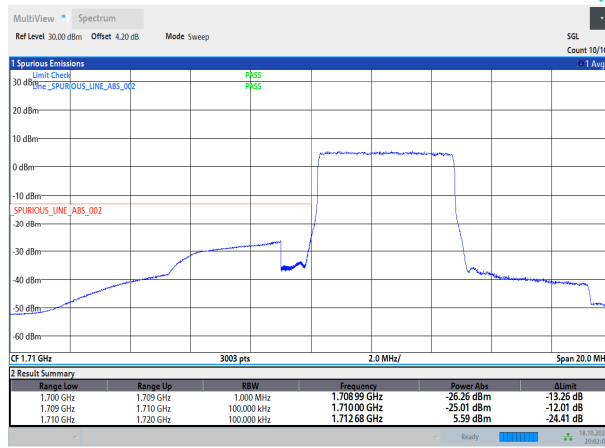
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Band4-5MHz-QPSK-19975-1RB#0



20:01:44 18.10.2022

Band4-5MHz-QPSK-19975-25RB#0



20:02:06 18.10.2022

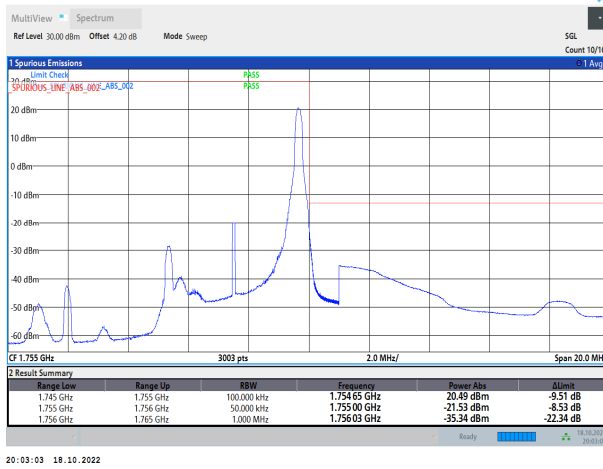


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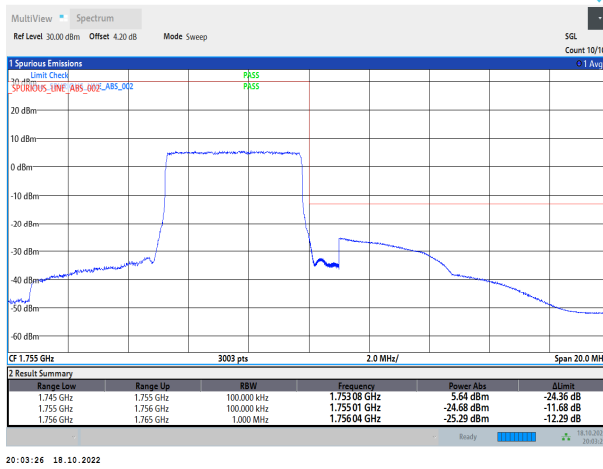
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Band4-5MHz-QPSK-20375-1RB#24



Band4-5MHz-QPSK-20375-25RB#0

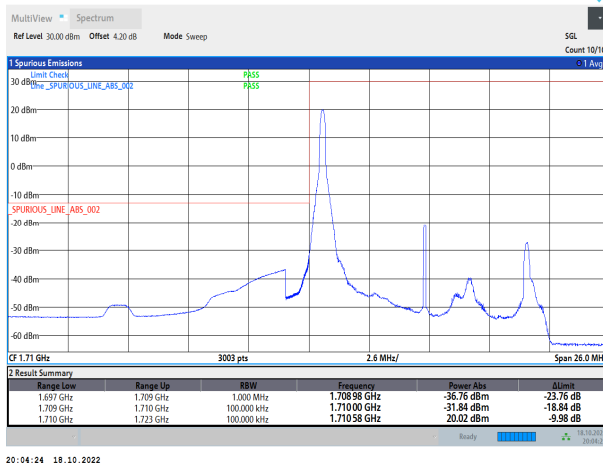


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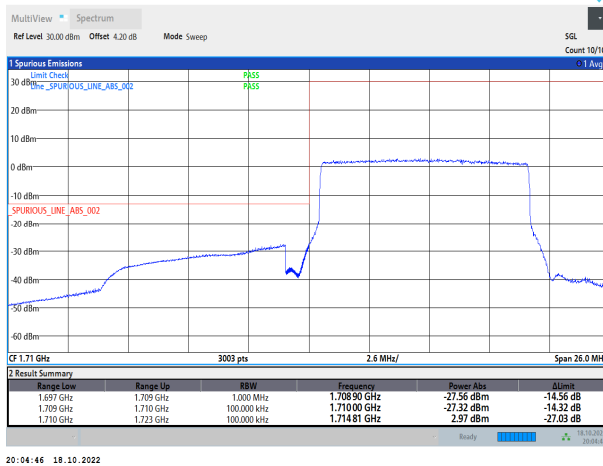
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Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0

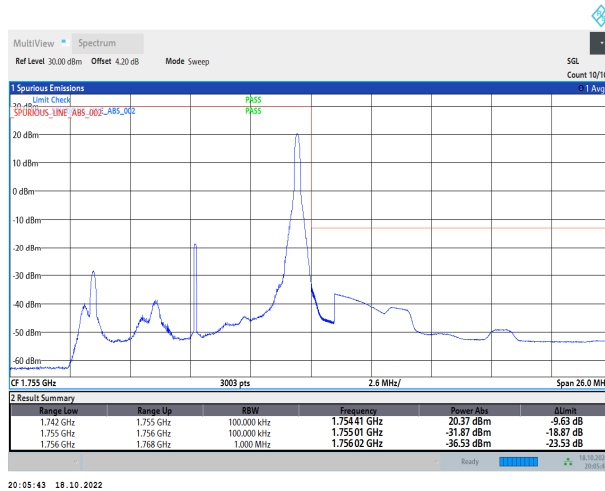


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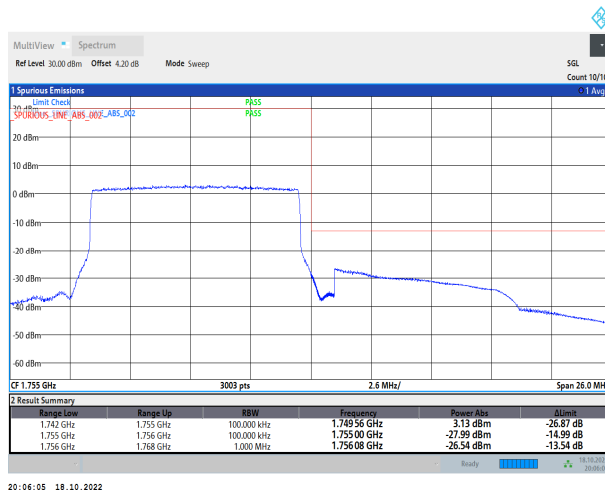
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Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0

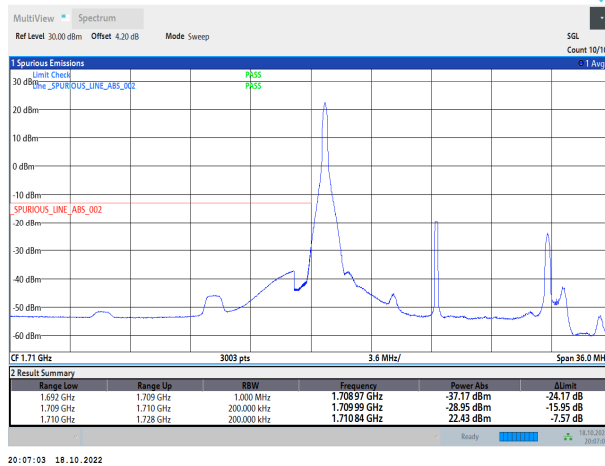


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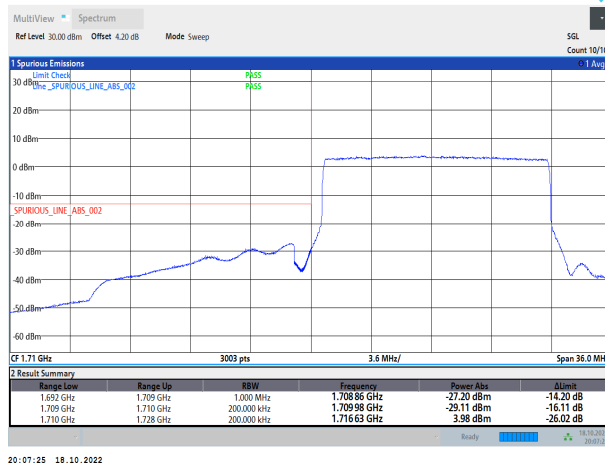
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0

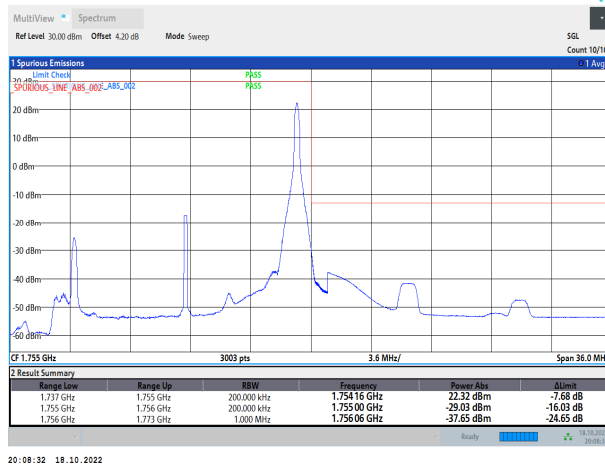


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Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0

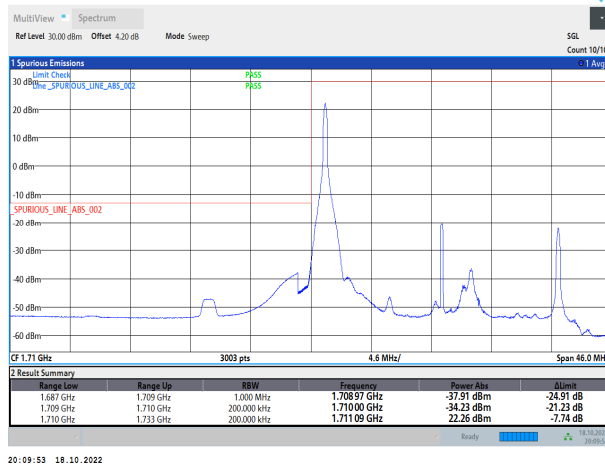


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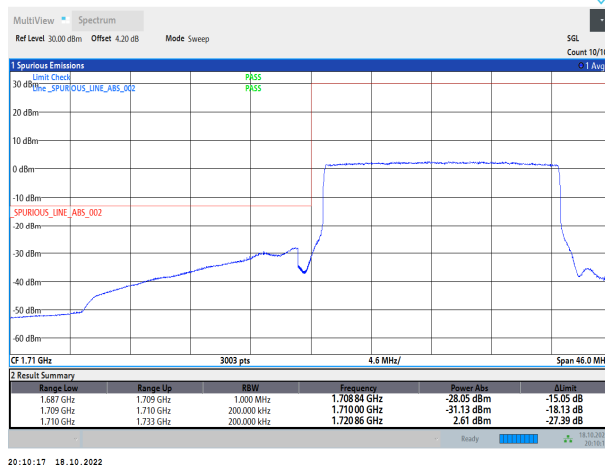
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0

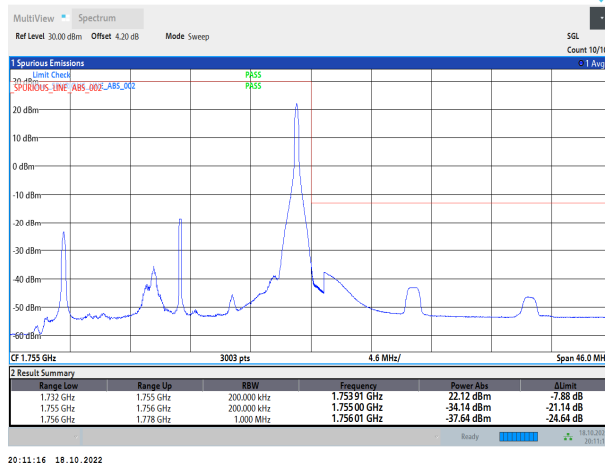


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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



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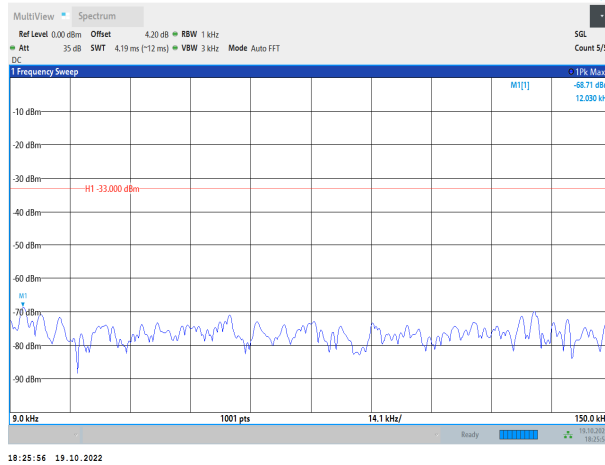
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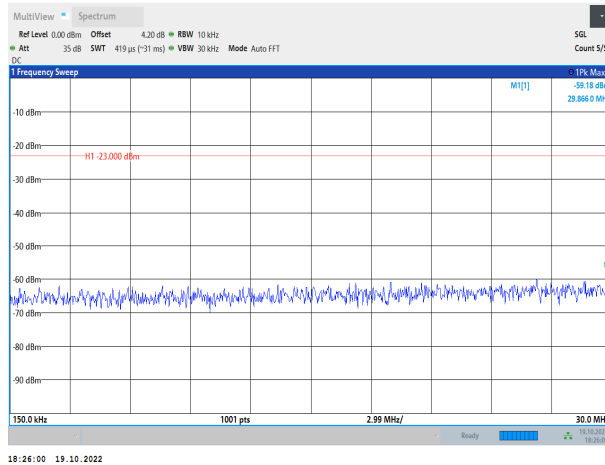
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

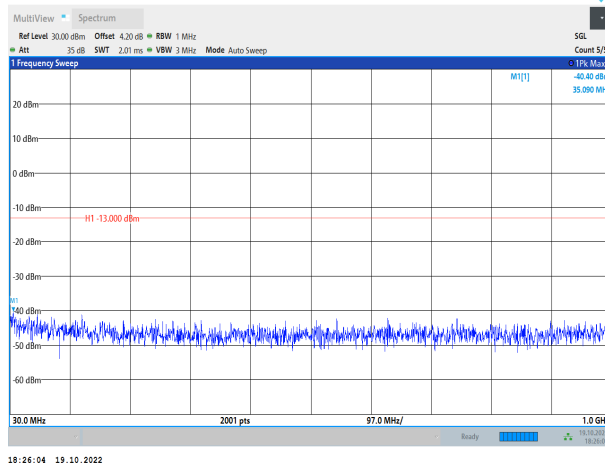


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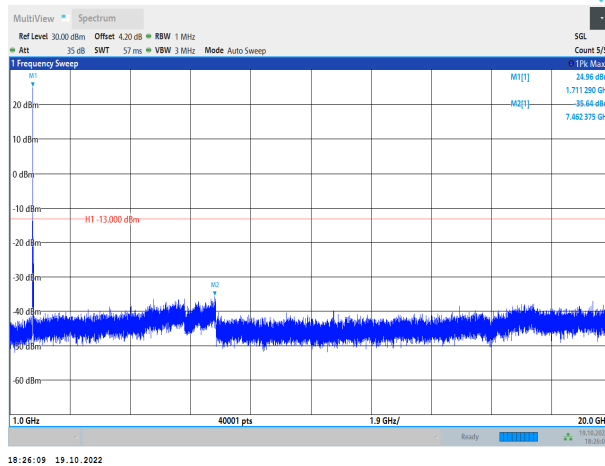
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz

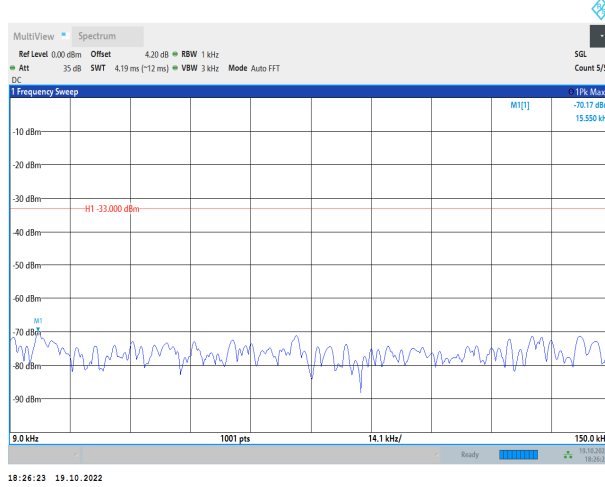


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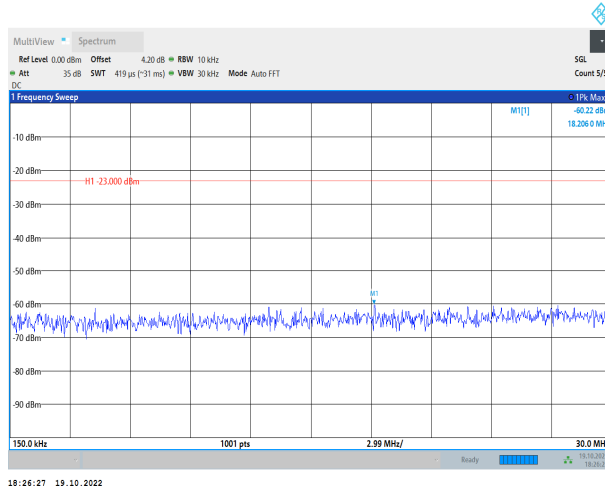
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz

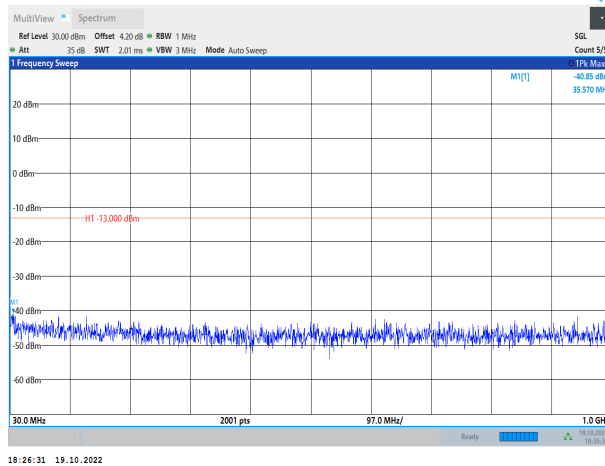


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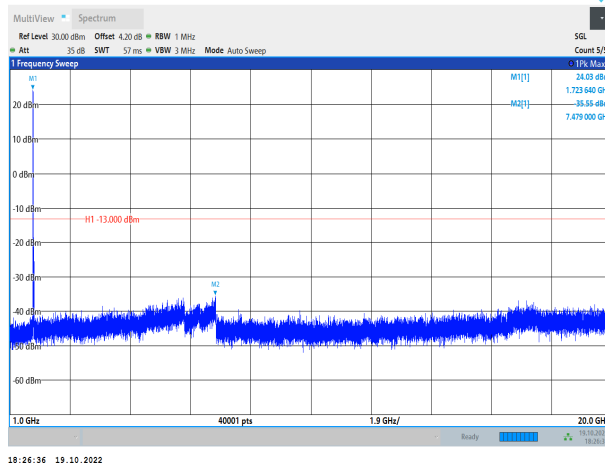
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz

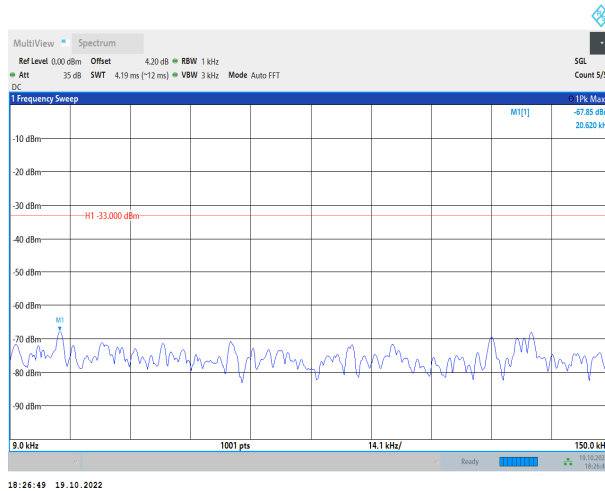


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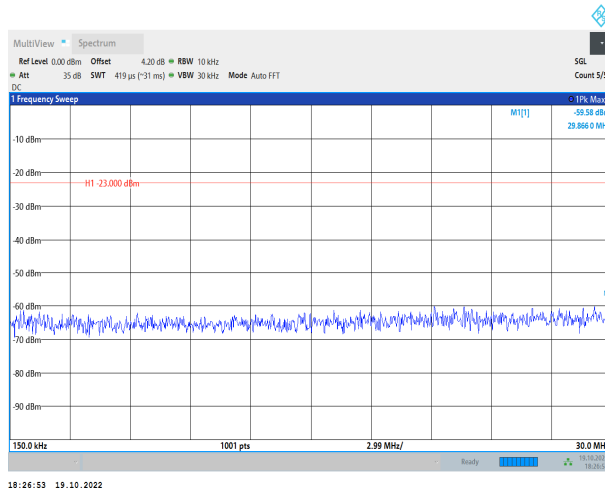
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



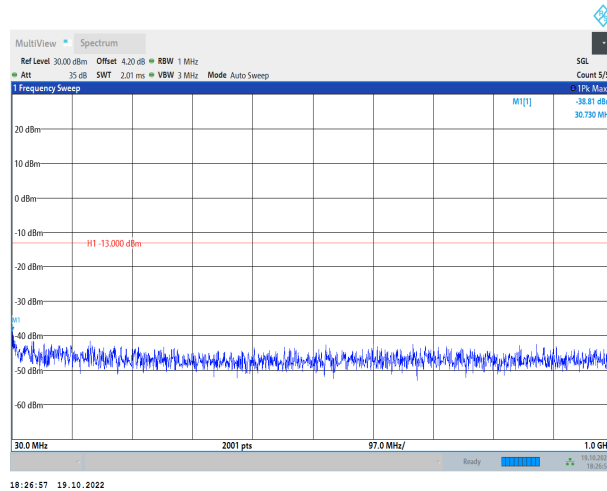
Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



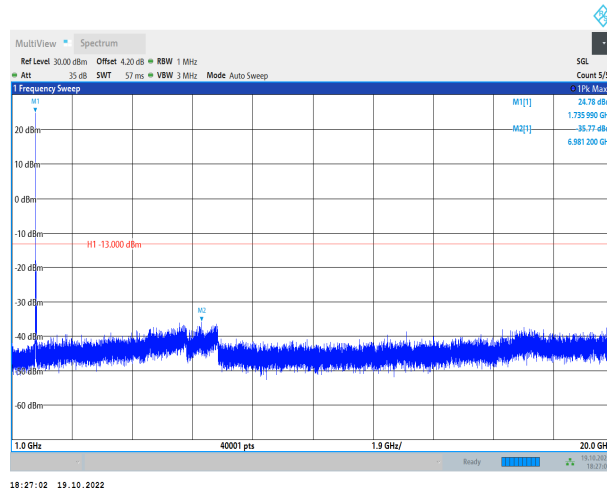
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band4_ TM1

Test Channel = Low

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3422.1800 | 63.50 | -46.28 | 29.45 | -48.59 | -13.00 | 35.59 | 189 | 43 | Horizontal |
| 2 | 5133.2700 | 47.81 | -45.34 | 32.95 | -59.84 | -13.00 | 46.84 | 126 | 286 | Horizontal |
| 3 | 6844.3600 | 46.90 | -44.14 | 35.89 | -56.61 | -13.00 | 43.61 | 132 | 209 | Horizontal |
| 4 | 8555.4500 | 41.75 | -41.46 | 37.66 | -57.31 | -13.00 | 44.31 | 154 | 359 | Horizontal |
| 5 | 10266.5400 | 35.80 | -39.23 | 38.83 | -59.86 | -13.00 | 46.86 | 148 | 286 | Horizontal |
| 6 | 11977.6300 | 31.68 | -37.51 | 38.95 | -62.15 | -13.00 | 49.15 | 129 | 255 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3422.1800 | 59.14 | -46.28 | 29.45 | -52.95 | -13.00 | 39.95 | 258 | 46 | Vertical |
| 2 | 5133.2700 | 50.63 | -45.34 | 32.95 | -57.02 | -13.00 | 44.02 | 174 | 360 | Vertical |
| 3 | 6844.3600 | 45.67 | -44.14 | 35.89 | -57.84 | -13.00 | 44.84 | 196 | 195 | Vertical |
| 4 | 8555.4500 | 42.77 | -41.46 | 37.66 | -56.29 | -13.00 | 43.29 | 122 | 77 | Vertical |
| 5 | 10266.5400 | 35.91 | -39.23 | 38.83 | -59.75 | -13.00 | 46.75 | 147 | 151 | Vertical |
| 6 | 11977.6300 | 31.48 | -37.51 | 38.95 | -62.35 | -13.00 | 49.35 | 211 | 182 | Vertical |



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Test Band = LTE Band4_ TM1

Test Channel = Mid

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3447 | 60.92 | -46.27 | 29.47 | -51.14 | -13.00 | 38.14 | 156 | 73 | Horizontal |
| 2 | 5170.7700 | 47.31 | -45.31 | 32.97 | -60.28 | -13.00 | 47.28 | 195 | 287 | Horizontal |
| 3 | 6894.3600 | 46.03 | -44.10 | 35.95 | -57.38 | -13.00 | 44.38 | 148 | 195 | Horizontal |
| 4 | 8617.9500 | 41.37 | -41.40 | 37.78 | -57.51 | -13.00 | 44.51 | 175 | 332 | Horizontal |
| 5 | 10341.5400 | 35.81 | -39.06 | 38.85 | -59.66 | -13.00 | 46.66 | 162 | 166 | Horizontal |
| 6 | 12065.1300 | 32.96 | -37.44 | 39.02 | -60.72 | -13.00 | 47.72 | 133 | 318 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3447.1800 | 57.48 | -46.27 | 29.47 | -54.58 | -13.00 | 41.58 | 178 | 105 | Vertical |
| 2 | 5170.7700 | 48.96 | -45.31 | 32.97 | -58.63 | -13.00 | 45.63 | 196 | 344 | Vertical |
| 3 | 6894.3600 | 45.74 | -44.10 | 35.95 | -57.67 | -13.00 | 44.67 | 185 | 165 | Vertical |
| 4 | 8617.9500 | 42.41 | -41.40 | 37.78 | -56.47 | -13.00 | 43.47 | 142 | 225 | Vertical |
| 5 | 10341.5400 | 35.81 | -39.06 | 38.85 | -59.66 | -13.00 | 46.66 | 126 | 4 | Vertical |
| 6 | 12065.1300 | 31.48 | -37.44 | 39.02 | -62.20 | -13.00 | 49.20 | 235 | 352 | Vertical |



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Test Band = LTE Band4_ TM1

Test Channel = High

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3472.1800 | 61.21 | -46.27 | 29.50 | -50.82 | -13.00 | 37.82 | 256 | 352 | Horizontal |
| 2 | 5208.2700 | 48.62 | -45.26 | 32.98 | -58.92 | -13.00 | 45.92 | 145 | 60 | Horizontal |
| 3 | 6944.3600 | 45.93 | -43.85 | 36.01 | -57.17 | -13.00 | 44.17 | 169 | 4 | Horizontal |
| 4 | 8680.4500 | 40.53 | -41.62 | 37.88 | -58.47 | -13.00 | 45.47 | 182 | 4 | Horizontal |
| 5 | 10416.5400 | 34.22 | -38.97 | 38.88 | -61.14 | -13.00 | 48.14 | 103 | 314 | Horizontal |
| 6 | 12152.6300 | 32.45 | -37.42 | 39.09 | -61.14 | -13.00 | 48.14 | 254 | 14 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3472.1800 | 58.42 | -46.27 | 29.50 | -53.61 | -13.00 | 40.61 | 285 | 163 | Vertical |
| 2 | 5208.2700 | 49.50 | -45.26 | 32.98 | -58.04 | -13.00 | 45.04 | 147 | 331 | Vertical |
| 3 | 6944.3600 | 46.69 | -43.85 | 36.01 | -56.41 | -13.00 | 43.41 | 196 | 30 | Vertical |
| 4 | 8680.4500 | 42.01 | -41.62 | 37.88 | -56.99 | -13.00 | 43.99 | 153 | 163 | Vertical |
| 5 | 10416.5400 | 34.92 | -38.97 | 38.88 | -60.44 | -13.00 | 47.44 | 165 | 14 | Vertical |
| 6 | 12152.6300 | 32.06 | -37.42 | 39.09 | -61.53 | -13.00 | 48.53 | 143 | 179 | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VL | NT | 1.20 | 0.000693 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VN | NT | -1.00 | -0.000577 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VH | NT | -0.80 | -0.000462 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -30 | 0.70 | 0.000404 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -20 | 0.40 | 0.000231 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -10 | 0.30 | 0.000173 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 0 | 0.60 | 0.000346 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 10 | 1.00 | 0.000577 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 20 | 0.30 | 0.000173 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 30 | -0.20 | -0.000115 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 40 | 0.70 | 0.000404 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 50 | -0.40 | -0.000231 | PASS |

 $|\text{MAX}(\Delta f)| = 1.2\text{Hz}$

| Frequency Stability | Frequency (MHz) | Limit Line | Result |
|--------------------------------|-----------------|-------------------------|--------|
| $f_L - \text{MAX}(\Delta f) $ | 1710.568954 | $\geq 1710 \text{ MHz}$ | PASS |
| $f_H + \text{MAX}(\Delta f) $ | 1754.454182 | $\leq 1755 \text{ MHz}$ | |

---End of Attachment---



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