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# Appendix



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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            | 23.8        | 23.6      | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 23.93       | 23.73     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 23.82       | 23.62     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 22.93       | 22.73     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 23.84       | 23.64     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 23.96       | 23.76     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 23.86       | 23.66     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 22.96       | 22.76     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 23.79       | 23.59     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 23.91       | 23.71     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 23.78       | 23.58     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 22.92       | 22.72     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 22.95       | 22.75     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 23.15       | 22.95     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 22.96       | 22.76     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 22.05       | 21.85     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 23.09       | 22.89     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 23.2        | 23        | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 23.07       | 22.87     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 22.05       | 21.85     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 22.95       | 22.75     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#2            | 23.04       | 22.84     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | 22.98       | 22.78     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 21.99       | 21.79     | 30         | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | 23.88       | 23.68     | 30         | PASS    |



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|-------|------|-------|-------|--------|-------|-------|----|------|
| Band4 | 3MHz | QPSK  | 19965 | 1RB#8  | 23.89 | 23.69 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 19965 | 1RB#14 | 23.9  | 23.7  | 30 | PASS |
| Band4 | 3MHz | QPSK  | 19965 | 15RB#0 | 22.95 | 22.75 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20175 | 1RB#0  | 23.91 | 23.71 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20175 | 1RB#8  | 23.95 | 23.75 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20175 | 1RB#14 | 23.92 | 23.72 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20175 | 15RB#0 | 22.97 | 22.77 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 1RB#0  | 23.86 | 23.66 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 1RB#8  | 23.87 | 23.67 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 1RB#14 | 23.86 | 23.66 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | 22.95 | 22.75 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0  | 23.14 | 22.94 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8  | 23.06 | 22.86 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 23.11 | 22.91 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 21.98 | 21.78 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0  | 23.18 | 22.98 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8  | 23.09 | 22.89 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14 | 23.19 | 22.99 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 22.01 | 21.81 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0  | 23.05 | 22.85 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8  | 23.08 | 22.88 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14 | 23    | 22.8  | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 21.96 | 21.76 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0  | 23.78 | 23.58 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12 | 24.07 | 23.87 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24 | 23.8  | 23.6  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | 22.97 | 22.77 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0  | 23.83 | 23.63 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12 | 24.1  | 23.9  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24 | 23.83 | 23.63 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | 22.98 | 22.78 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0  | 23.77 | 23.57 | 30 | PASS |



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| Band4 | 5MHz  | QPSK  | 20375 | 1RB#12 | 23.98 | 23.78 | 30 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 1RB#24 | 23.81 | 23.61 | 30 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 25RB#0 | 22.99 | 22.79 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 1RB#0  | 23.01 | 22.81 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 1RB#12 | 23.24 | 23.04 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 1RB#24 | 22.99 | 22.79 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 25RB#0 | 21.99 | 21.79 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#0  | 23.08 | 22.88 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#12 | 23.3  | 23.1  | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#24 | 23.09 | 22.89 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 25RB#0 | 22.01 | 21.81 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#0  | 22.97 | 22.77 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12 | 23.25 | 23.05 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24 | 22.98 | 22.78 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | 22    | 21.8  | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0  | 23.89 | 23.69 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24 | 24.02 | 23.82 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49 | 23.96 | 23.76 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | 23.08 | 22.88 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0  | 23.91 | 23.71 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24 | 24.04 | 23.84 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49 | 23.95 | 23.75 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | 23.09 | 22.89 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0  | 23.89 | 23.69 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24 | 24.01 | 23.81 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49 | 23.92 | 23.72 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | 23.05 | 22.85 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0  | 23.02 | 22.82 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 23.23 | 23.03 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 23.17 | 22.97 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 22.07 | 21.87 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0  | 23.11 | 22.91 | 30 | PASS |



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| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 23.23 | 23.03 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 23.23 | 23.03 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 22.08 | 21.88 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0  | 23.09 | 22.89 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 23.16 | 22.96 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 23.09 | 22.89 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 22.07 | 21.87 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0  | 23.76 | 23.56 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38 | 23.96 | 23.76 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74 | 23.87 | 23.67 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | 23.02 | 22.82 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0  | 23.79 | 23.59 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38 | 23.99 | 23.79 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74 | 23.87 | 23.67 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0 | 23.03 | 22.83 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0  | 23.77 | 23.57 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38 | 23.94 | 23.74 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74 | 23.82 | 23.62 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0 | 23.01 | 22.81 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0  | 22.96 | 22.76 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38 | 23.1  | 22.9  | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74 | 23.05 | 22.85 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 22.02 | 21.82 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0  | 23    | 22.8  | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38 | 23.2  | 23    | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74 | 23.09 | 22.89 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 22.05 | 21.85 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0  | 22.99 | 22.79 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38 | 23.22 | 23.02 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74 | 22.93 | 22.73 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 22.02 | 21.82 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0  | 23.58 | 23.38 | 30 | PASS |



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| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 24    | 23.8  | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 23.7  | 23.5  | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 22.97 | 22.77 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 23.57 | 23.37 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 24.04 | 23.84 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 23.75 | 23.55 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 23.04 | 22.84 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 23.6  | 23.4  | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 24.04 | 23.84 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 23.7  | 23.5  | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 23.04 | 22.84 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 22.72 | 22.52 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 23.2  | 23    | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.87 | 22.67 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 21.98 | 21.78 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 22.77 | 22.57 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 23.33 | 23.13 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 23    | 22.8  | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 22.06 | 21.86 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 22.83 | 22.63 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 23.17 | 22.97 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 22.91 | 22.71 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 22.07 | 21.87 | 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          | 5.02       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.22       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 5.14       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 5.74       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 5.94       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 5.96       | 13        | PASS    |



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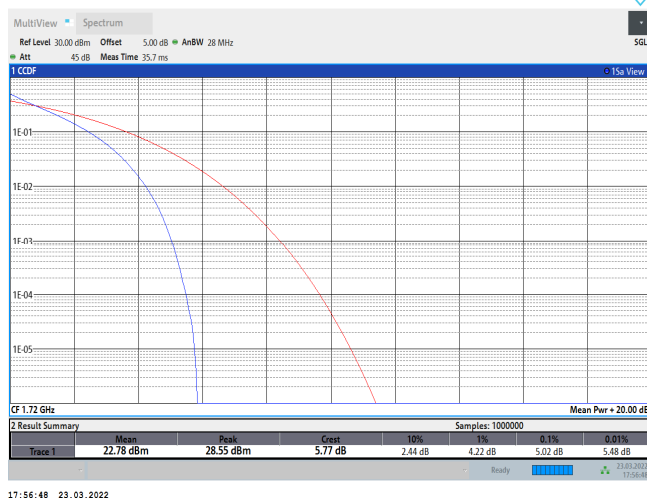
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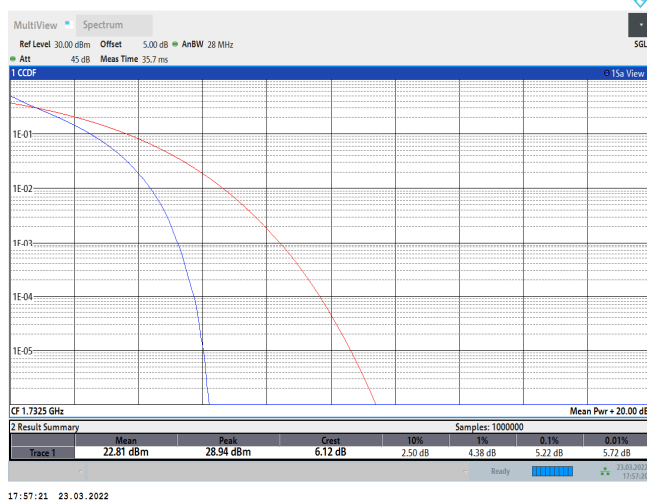
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### Test Graphs

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



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



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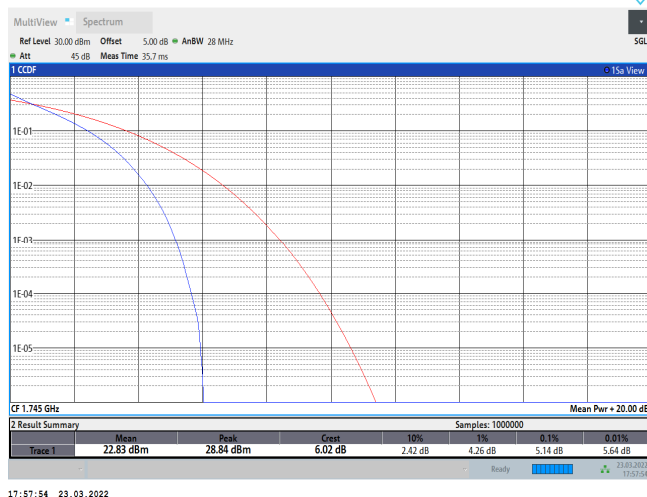
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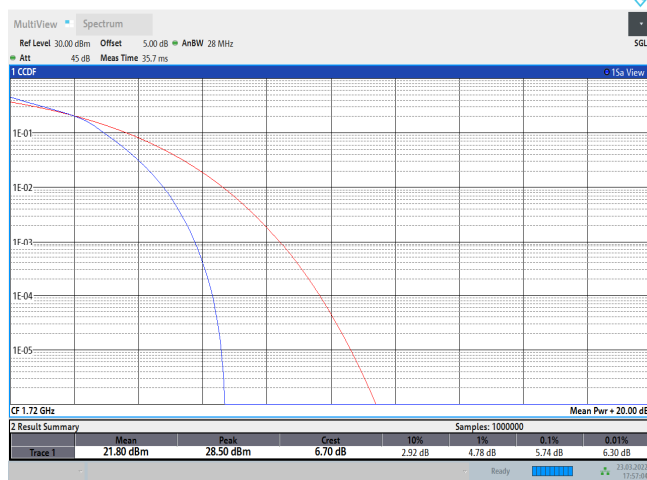
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### Band4-20MHz-QPSK-20300-100RB#0



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



17:57:05 23.03.2022



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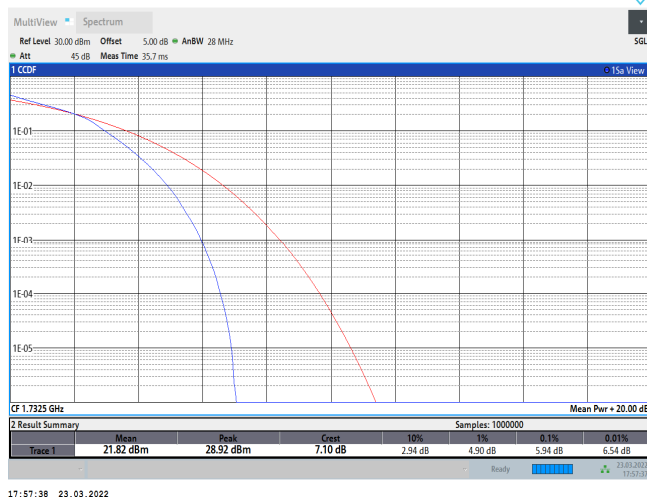
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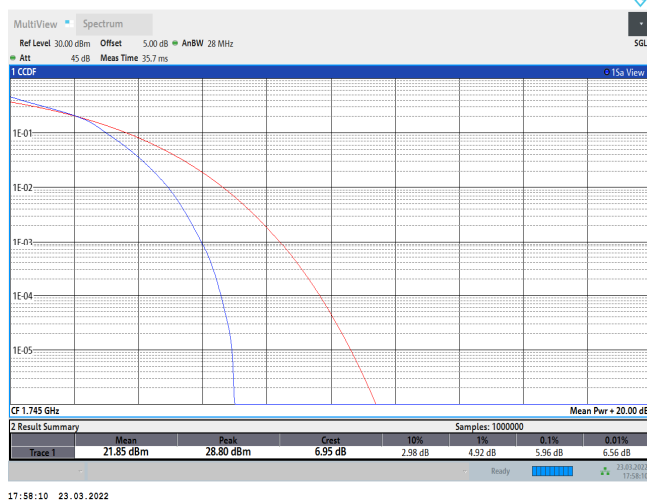
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### Band4-20MHz-16QAM-20175-100RB#0



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



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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    |



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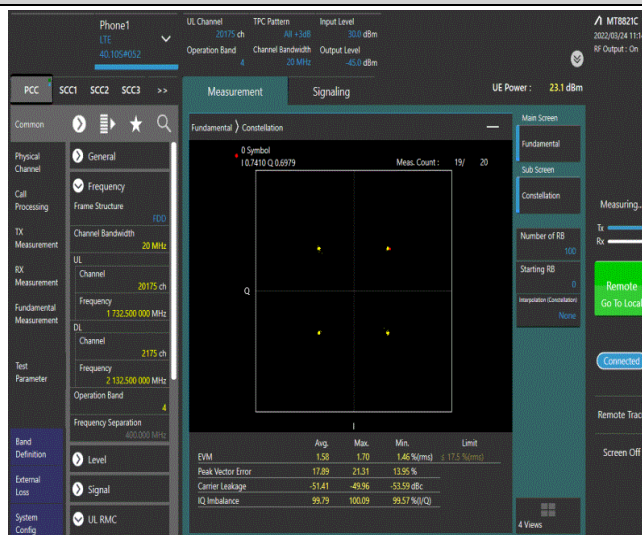
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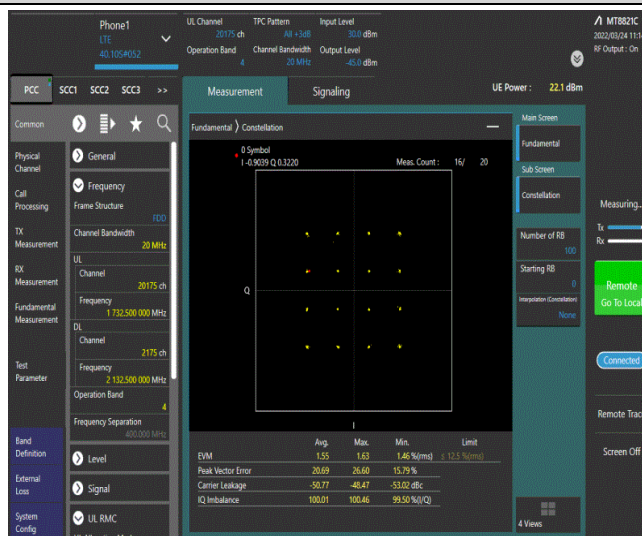
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## Test Graphs

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



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



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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            | 1.085                    | 1.28                 | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.084                    | 1.28                 | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.085                    | 1.29                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.098                    | 1.31                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.097                    | 1.31                 | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.1                      | 1.31                 | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.684                    | 2.92                 | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.689                    | 2.92                 | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.688                    | 2.89                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.678                    | 2.91                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.677                    | 2.90                 | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.679                    | 2.89                 | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.471                    | 4.83                 | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.472                    | 4.83                 | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.468                    | 4.85                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.465                    | 4.85                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.466                    | 4.90                 | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.466                    | 4.86                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.926                    | 9.58                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.925                    | 9.60                 | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.931                    | 9.62                 | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 8.926                    | 9.56                 | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 8.918                    | 9.56                 | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 8.922                    | 9.56                 | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 13.473                   | 14.73                | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 13.474                   | 14.67                | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 13.48                    | 14.70                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 13.46                    | 14.76                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 13.463                   | 14.82                | PASS    |



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|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 13.463 | 14.82 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 17.9   | 19.28 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 17.94  | 19.32 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 17.932 | 19.48 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.898 | 19.36 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.881 | 19.32 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.907 | 19.28 | PASS |



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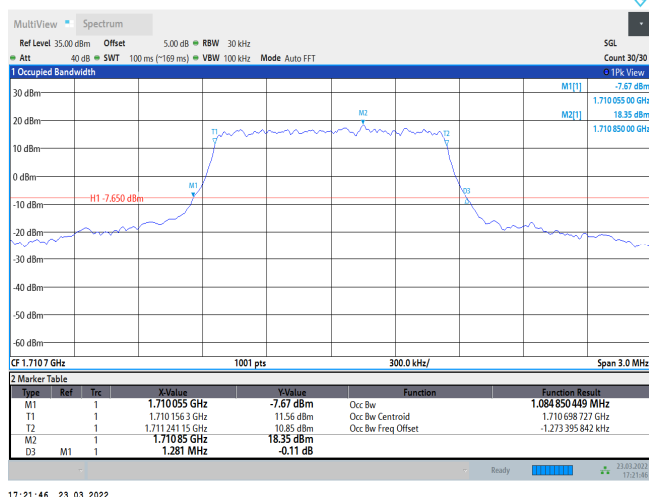
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### Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



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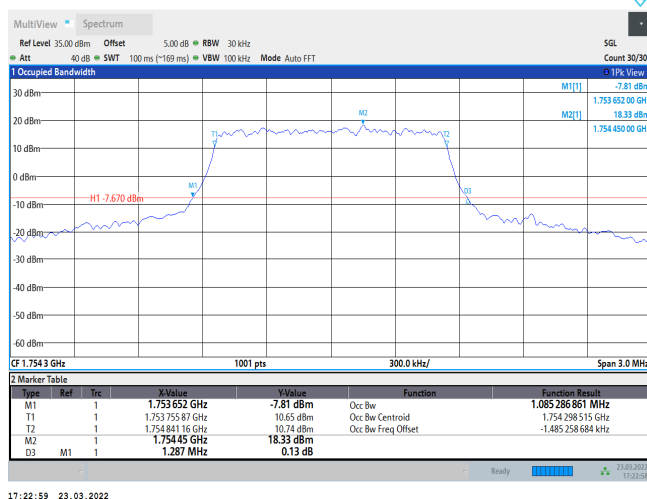


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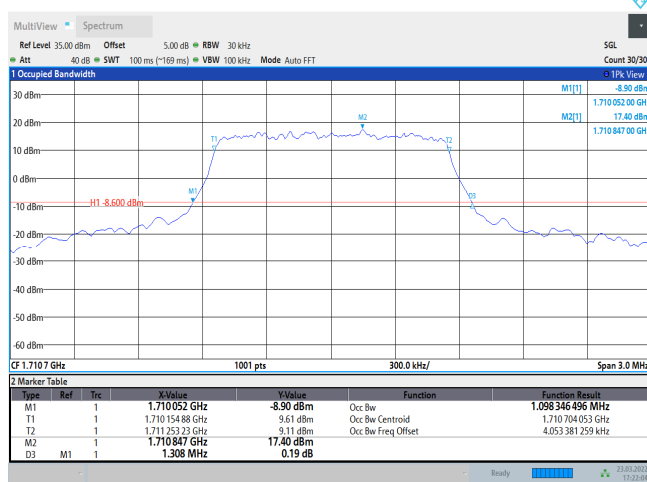
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### Band4-1.4MHz-QPSK-20393-6RB#0



17:22:59 23.03.2022

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



17:22:04 23.03.2022



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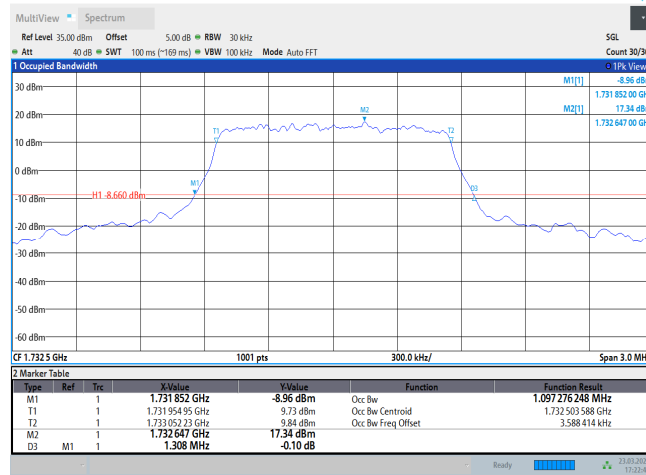
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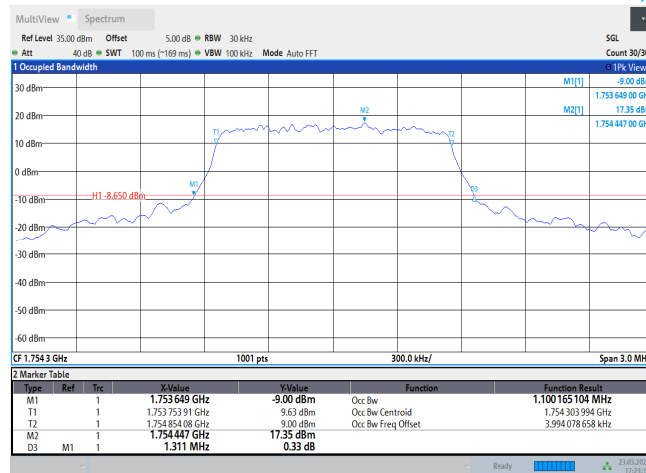
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### Band4-1.4MHz-16QAM-20175-6RB#0



17:22:40 23.03.2022

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



17:23:17 23.03.2022



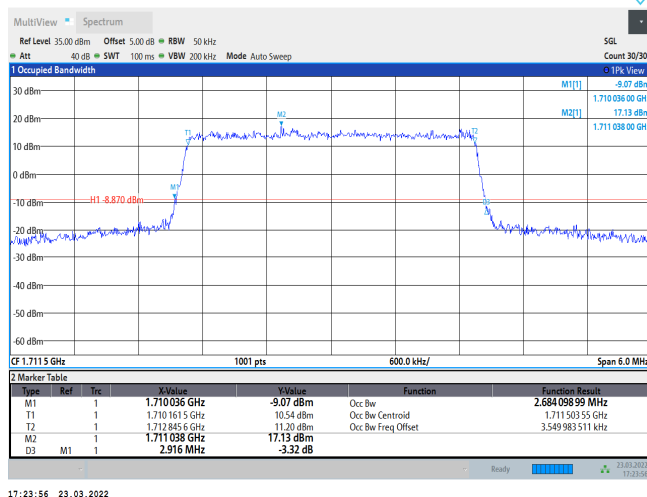
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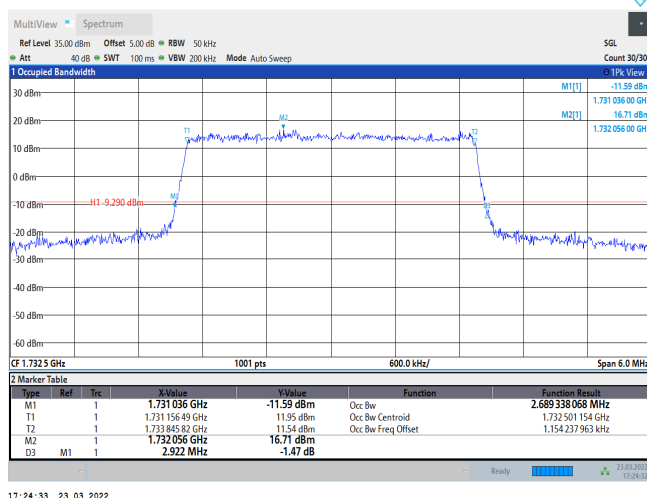
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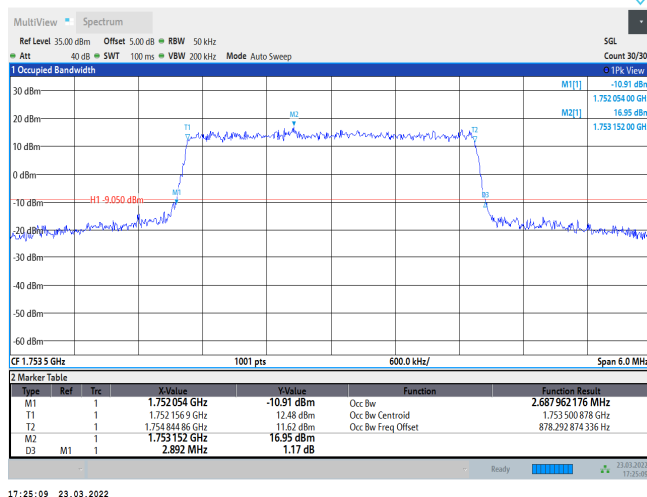
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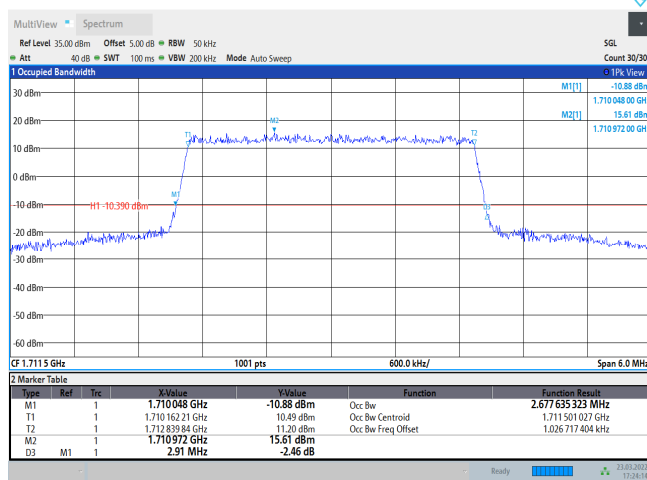


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17:25:09 23.03.2022

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



17:24:14 23.03.2022



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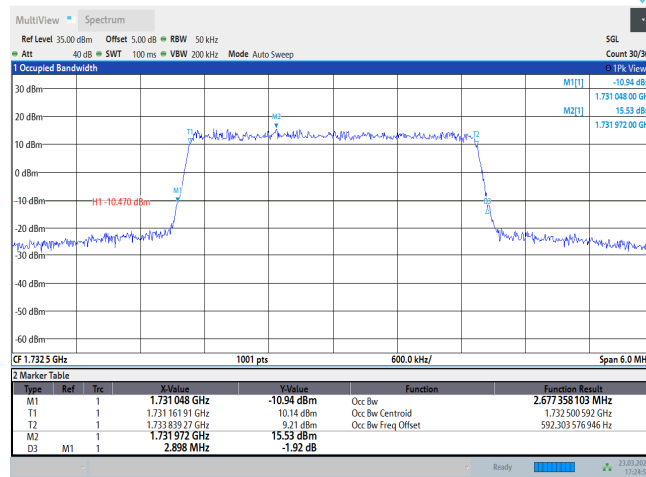
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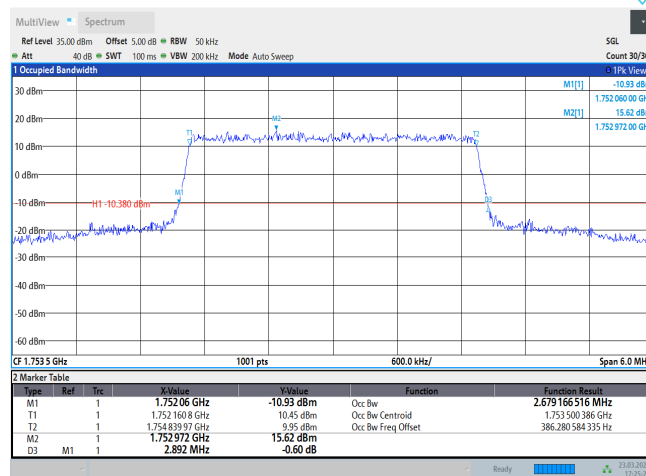
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### Band4-3MHz-16QAM-20175-15RB#0



17:24:51 23.03.2022

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



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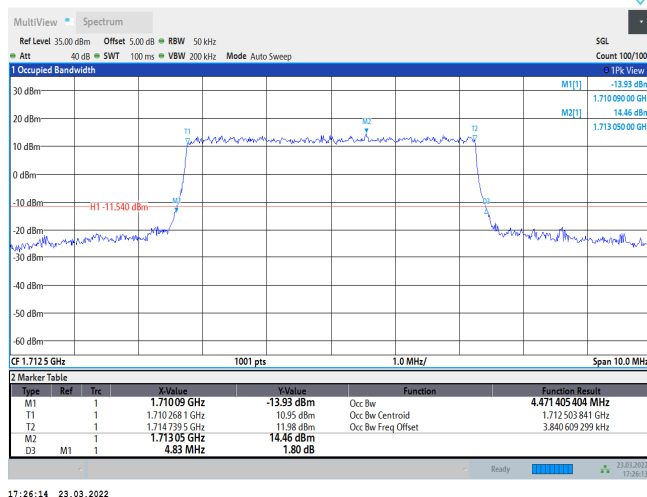
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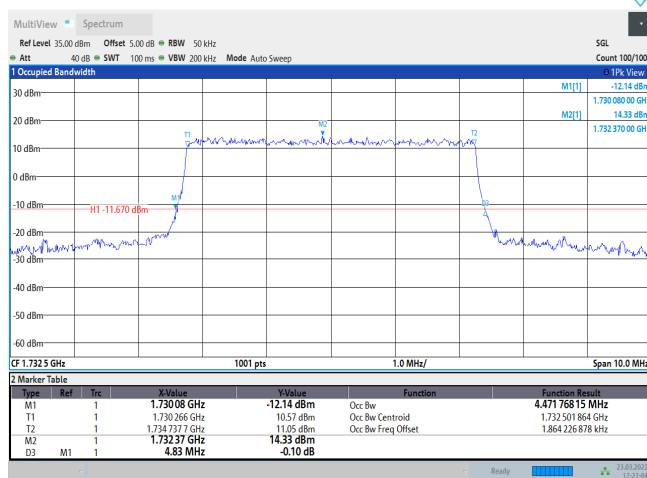
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### Band4-5MHz-QPSK-19975-25RB#0



17:26:14 23.03.2022

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



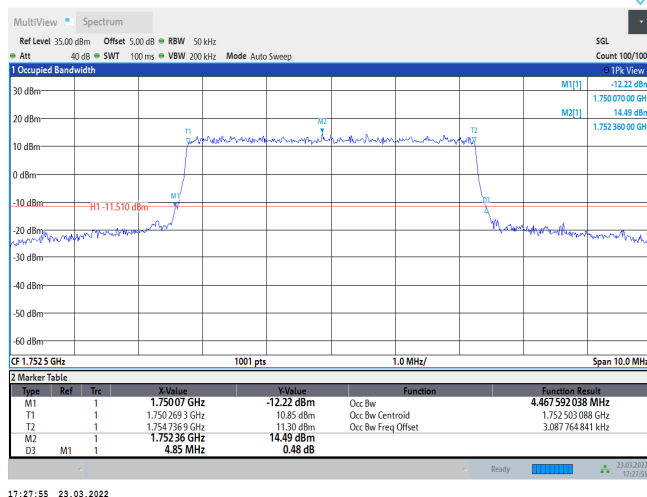
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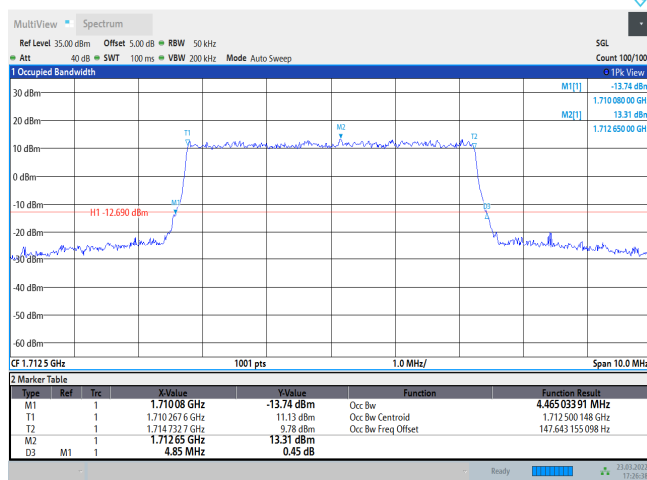
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### Band4-5MHz-QPSK-20375-25RB#0



17:27:55 23.03.2022

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



17:26:39 23.03.2022



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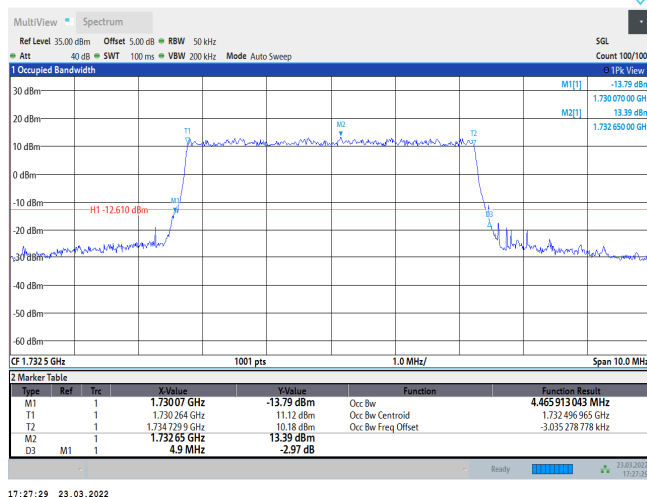
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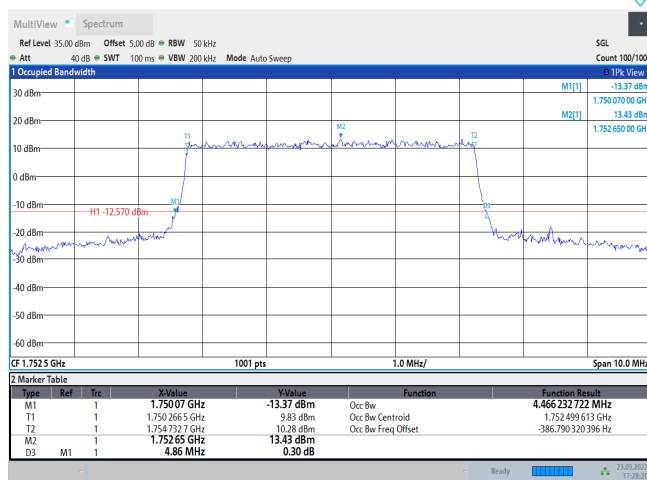
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### Band4-5MHz-16QAM-20175-25RB#0



17:27:29 23.03.2022

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



17:28:20 23.03.2022



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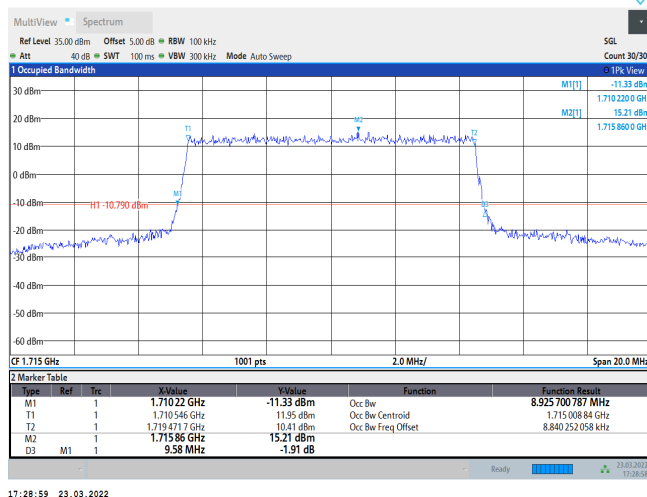
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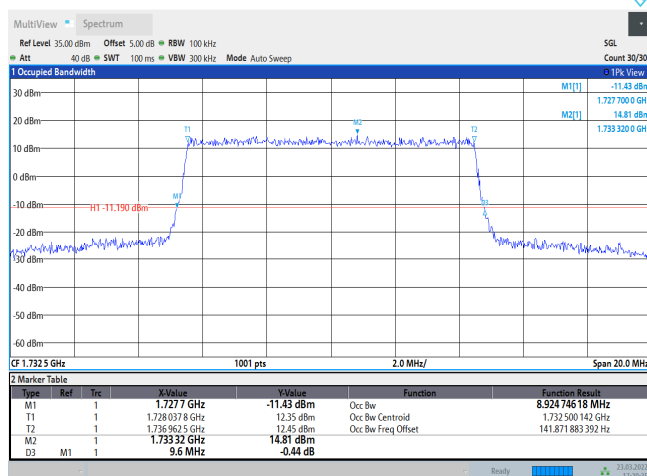
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### Band4-10MHz-QPSK-20000-50RB#0



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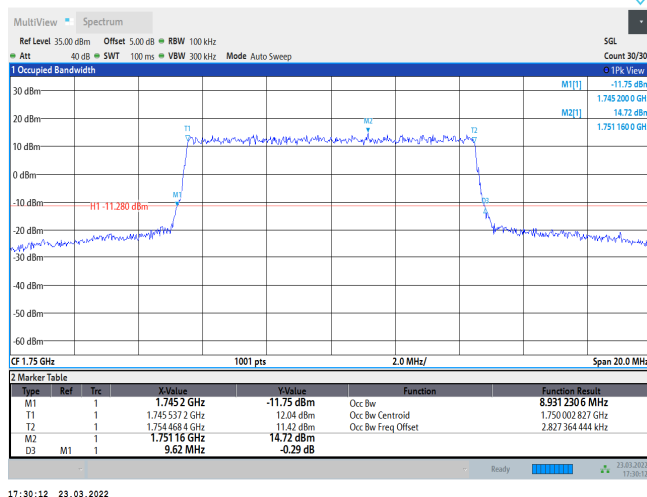
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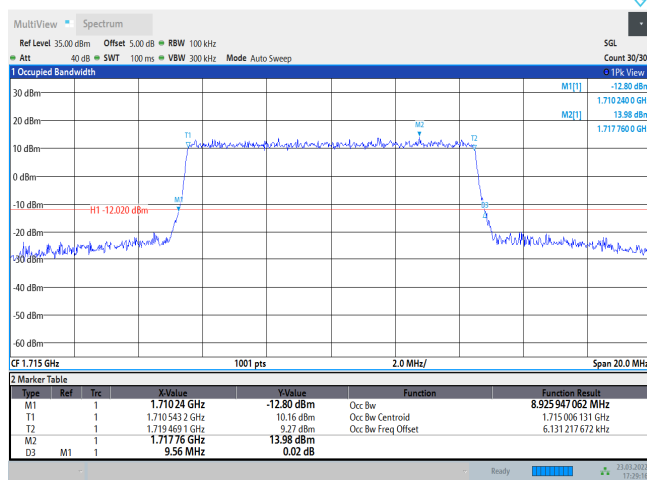
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17:30:12 23.03.2022

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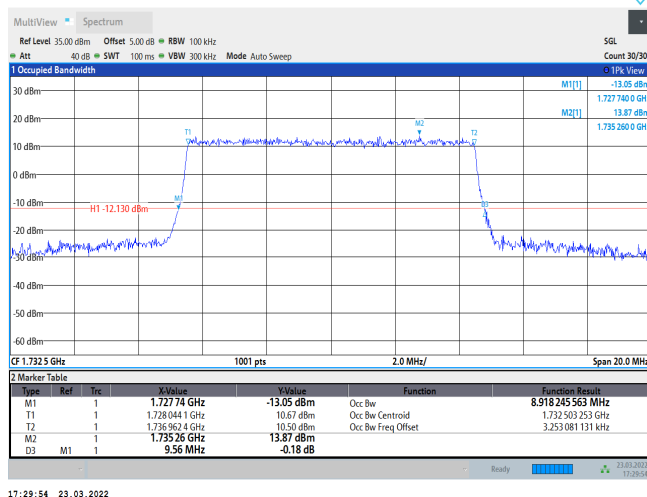
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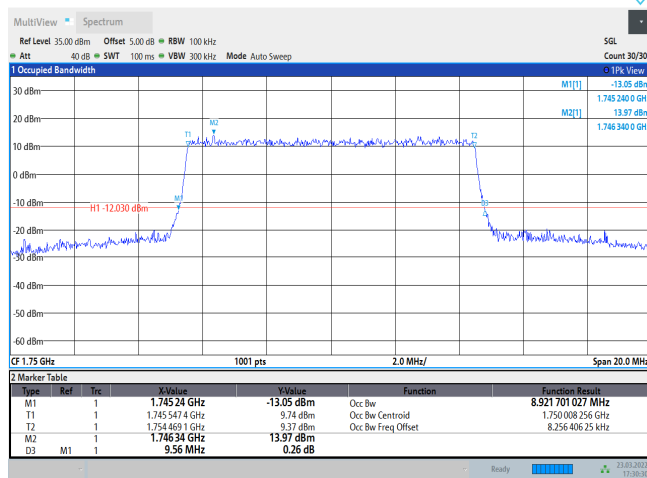
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### Band4-10MHz-16QAM-20175-50RB#0



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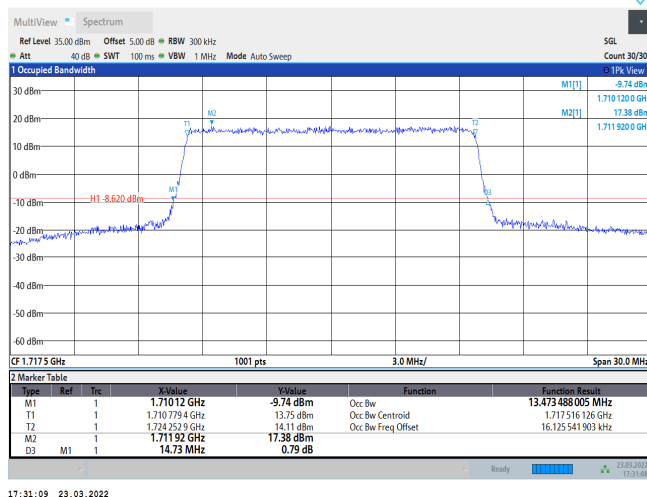
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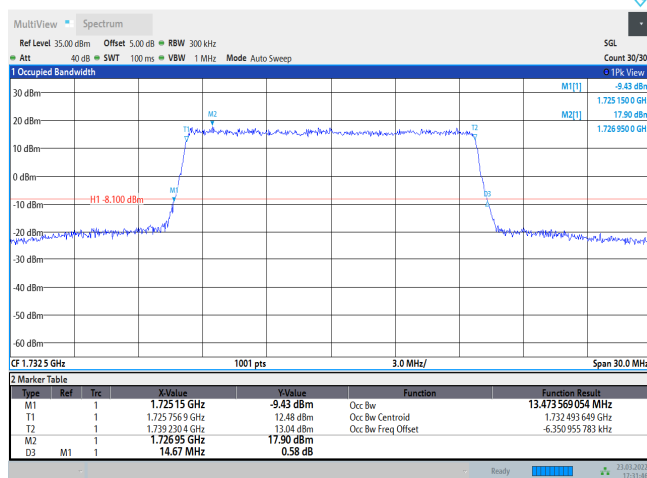
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### Band4-15MHz-QPSK-20025-75RB#0



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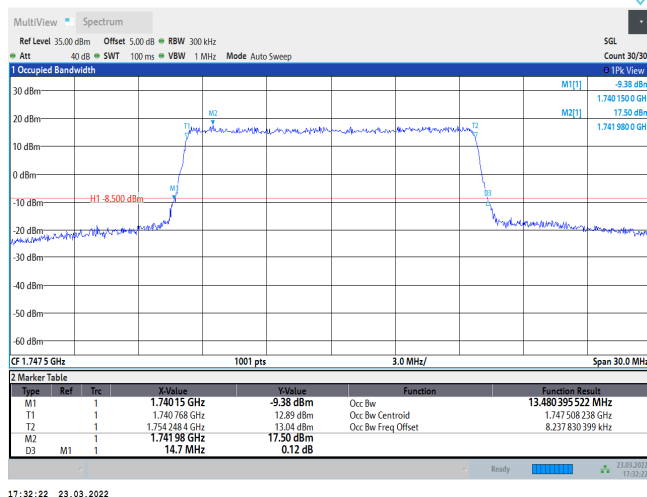
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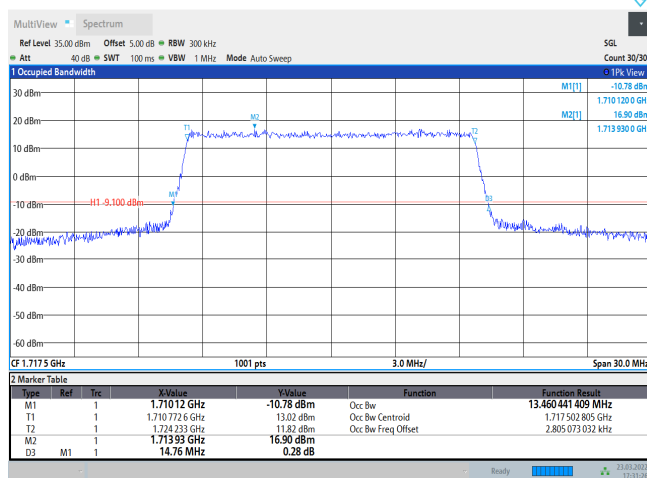
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### Band4-15MHz-16QAM-20025-75RB#0



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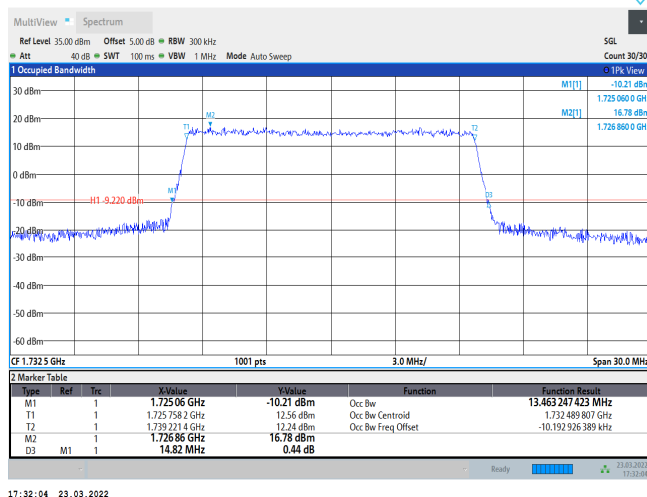
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### Band4-15MHz-16QAM-20175-75RB#0



17:32:04 23.03.2022

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



17:32:40 23.03.2022



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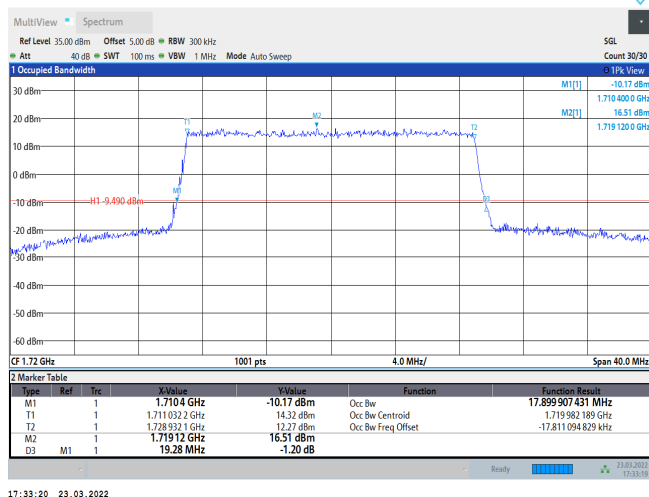
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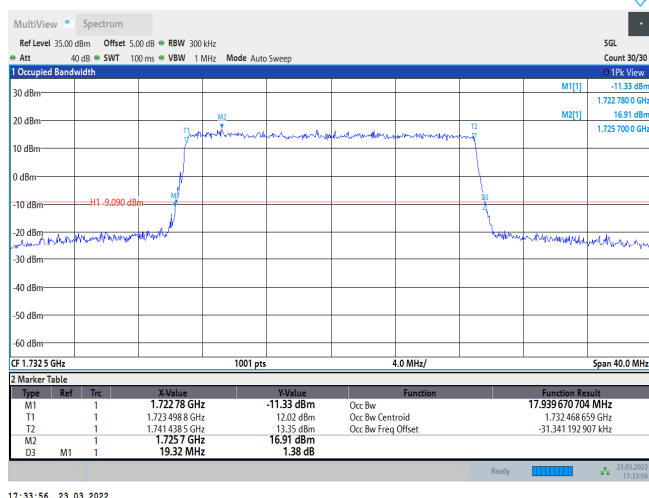
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### Band4-20MHz-QPSK-20050-100RB#0



17:33:20 23.03.2022

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



17:33:56 23.03.2022



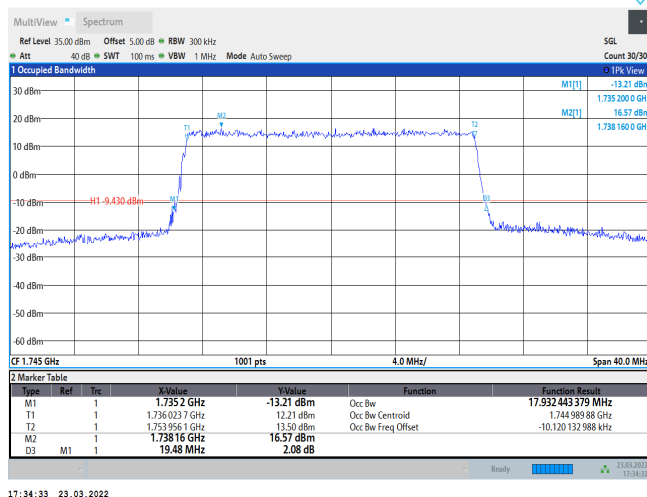
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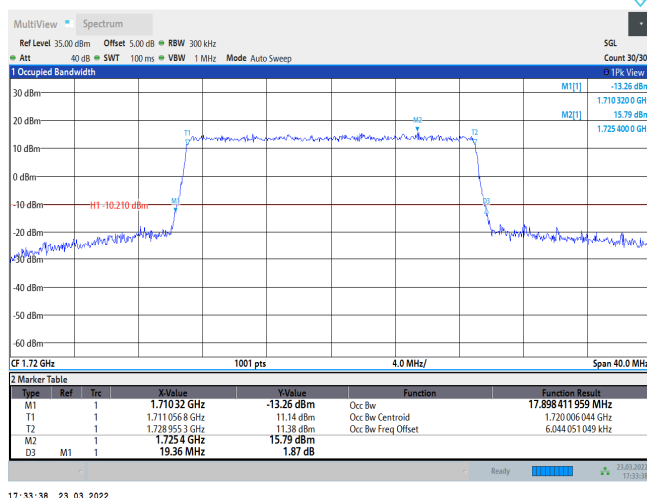
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### Band4-20MHz-QPSK-20300-100RB#0



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



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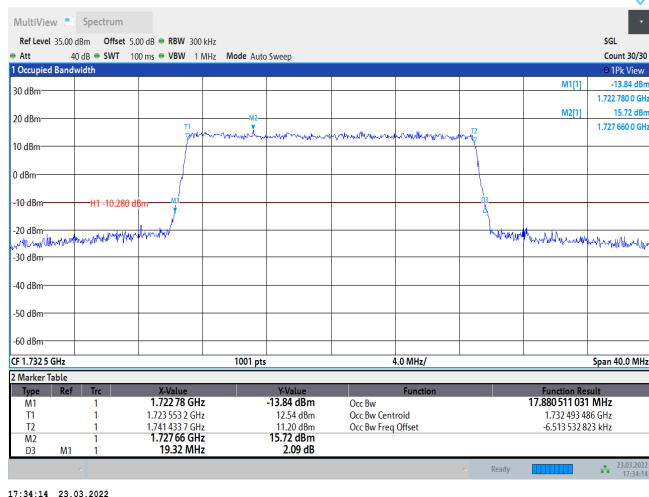
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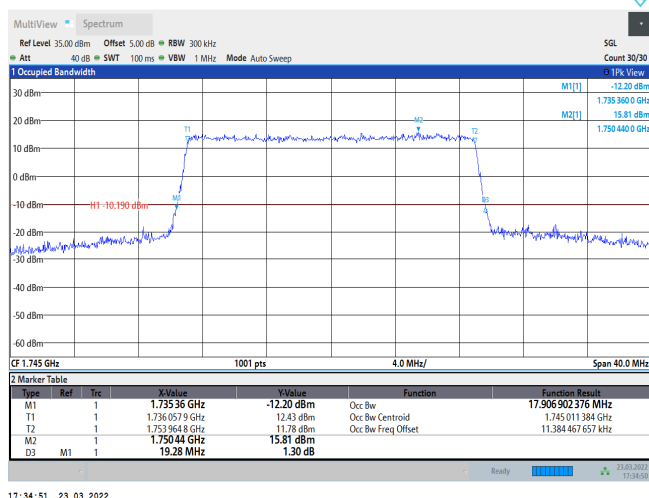
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### Band4-20MHz-16QAM-20175-100RB#0



17:34:14 23.03.2022

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



17:34:51 23.03.2022



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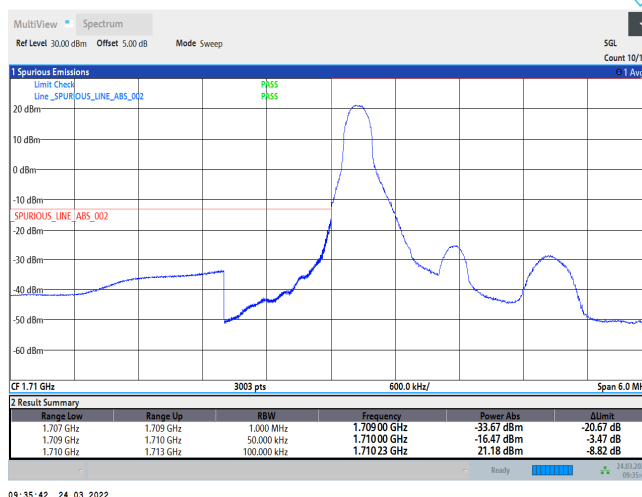
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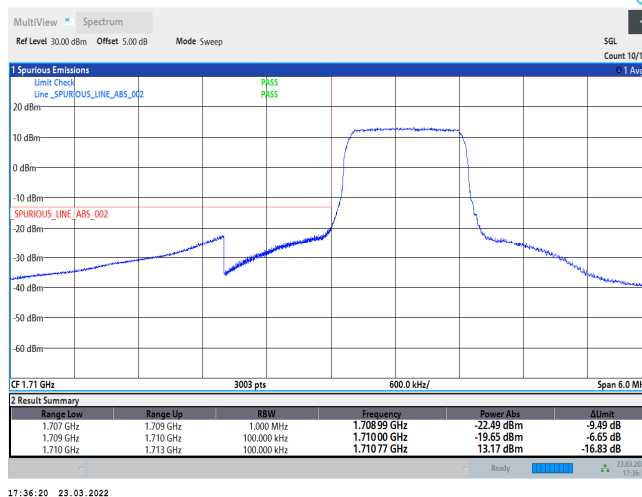
### Band Edge

### Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



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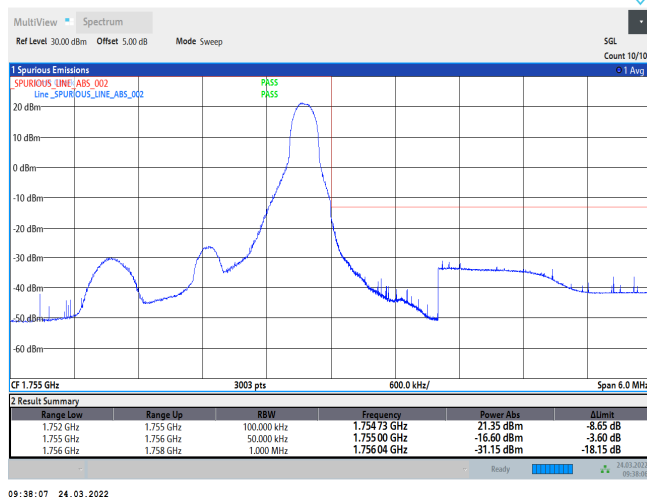
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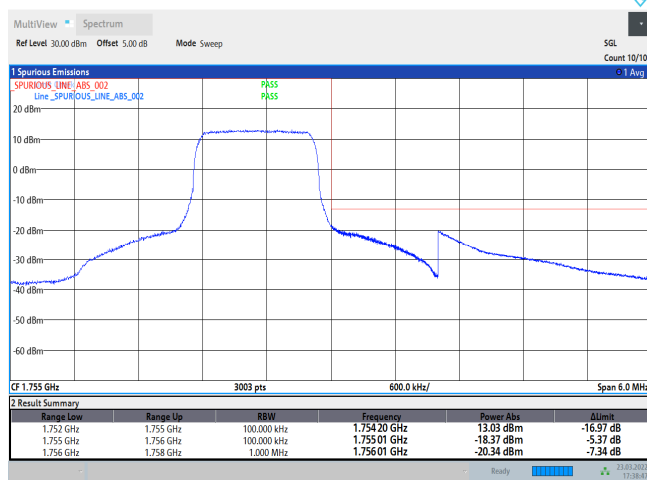
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### Band4-1.4MHz-QPSK-20393-1RB#5



09:38:07 24.03.2022

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



17:38:47 23.03.2022



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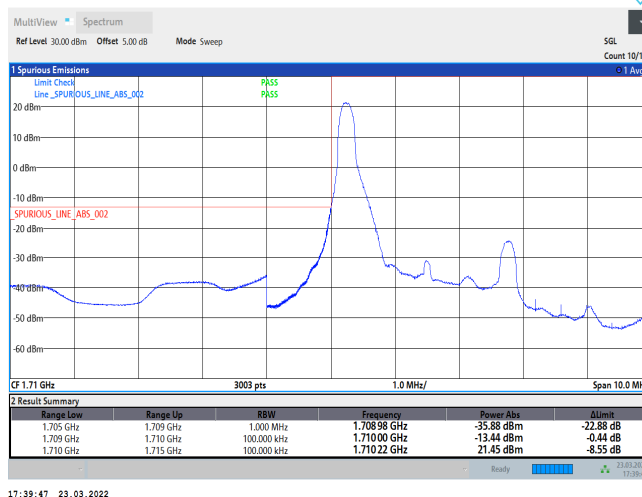
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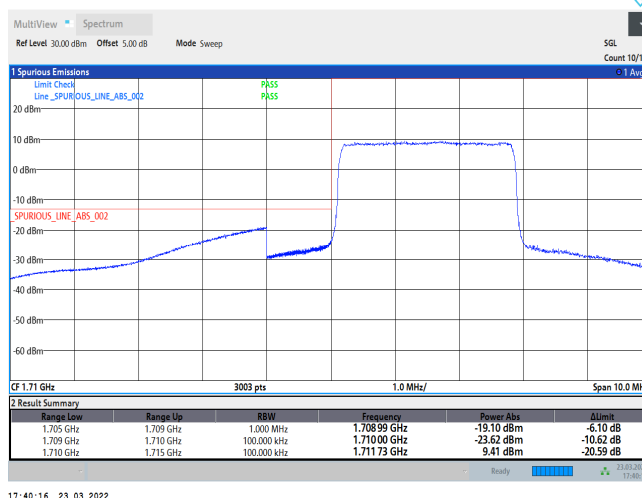
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### Band4-3MHz-QPSK-19965-1RB#0



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



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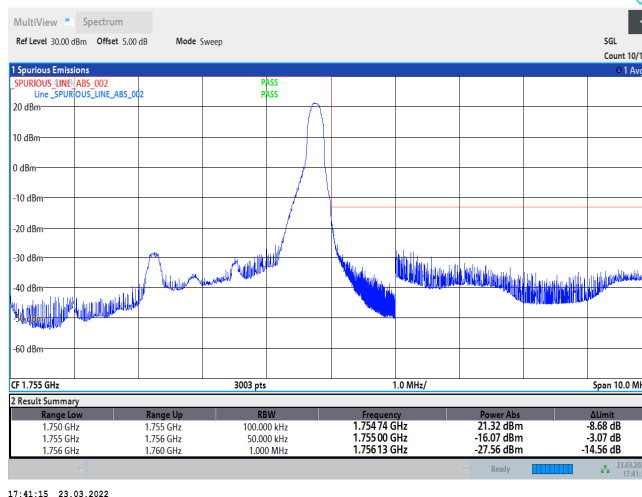
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### Band4-3MHz-QPSK-20385-15RB#0



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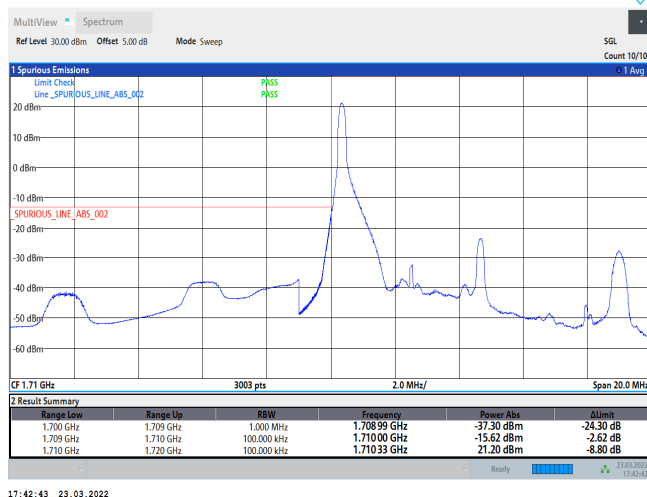
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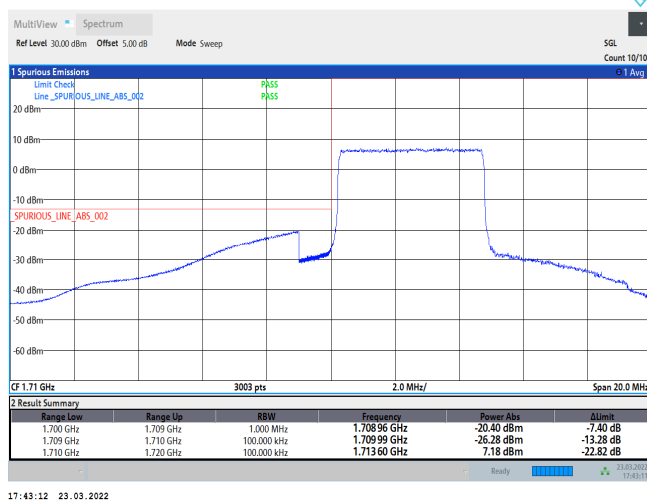
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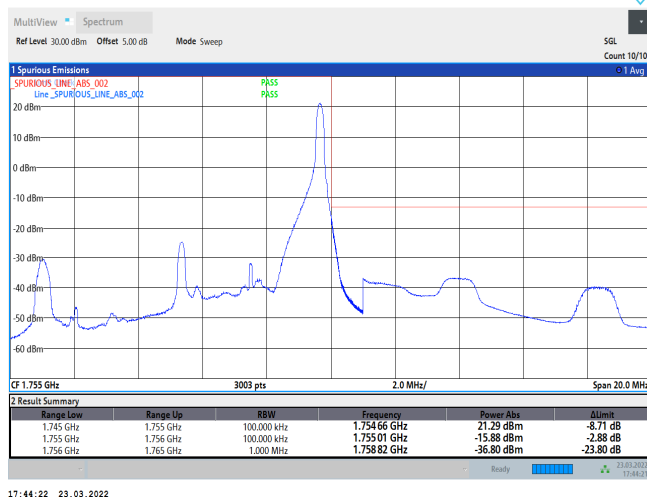
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### Band4-5MHz-QPSK-20375-1RB#24



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



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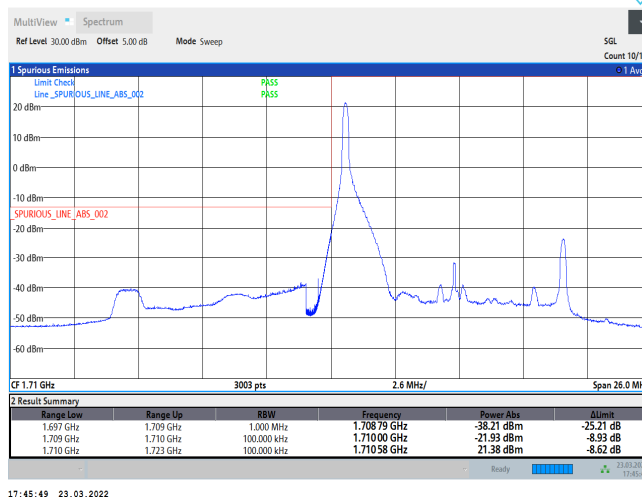
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### Band4-10MHz-QPSK-20000-1RB#0



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



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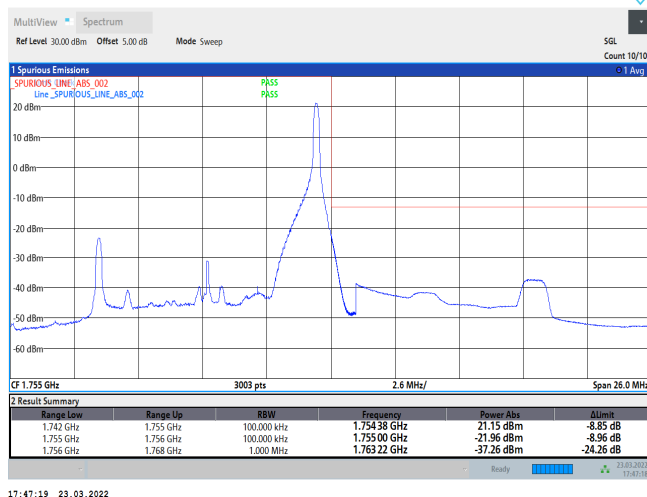
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### Band4-10MHz-QPSK-20350-1RB#49



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



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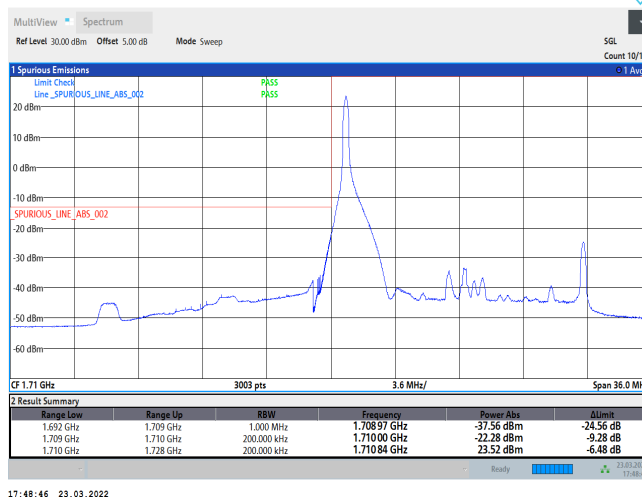


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### Band4-15MHz-QPSK-20025-1RB#0



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



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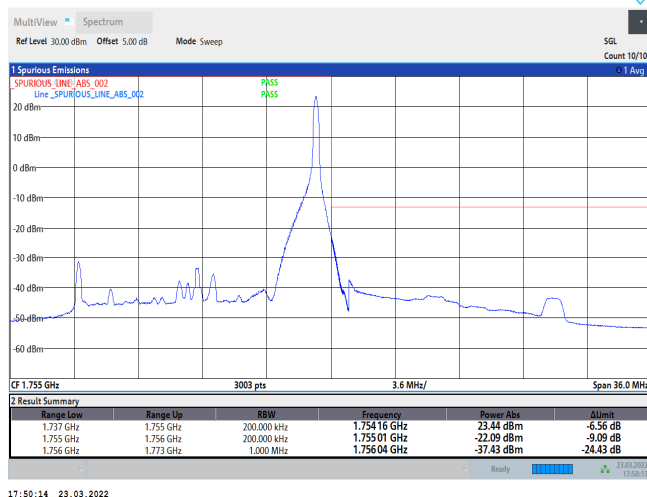
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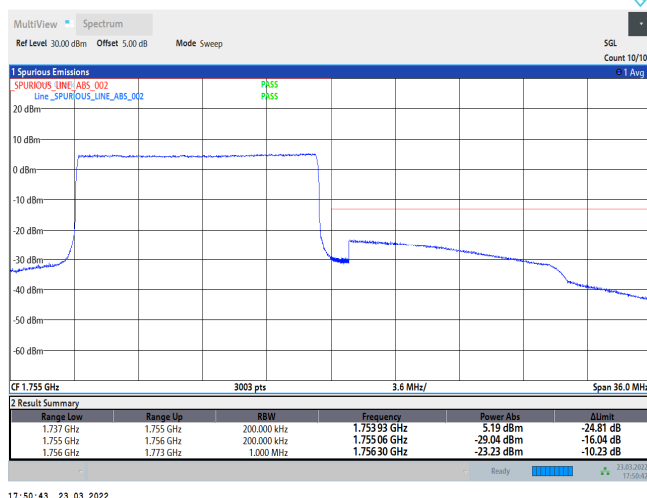
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### Band4-15MHz-QPSK-20325-1RB#74



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



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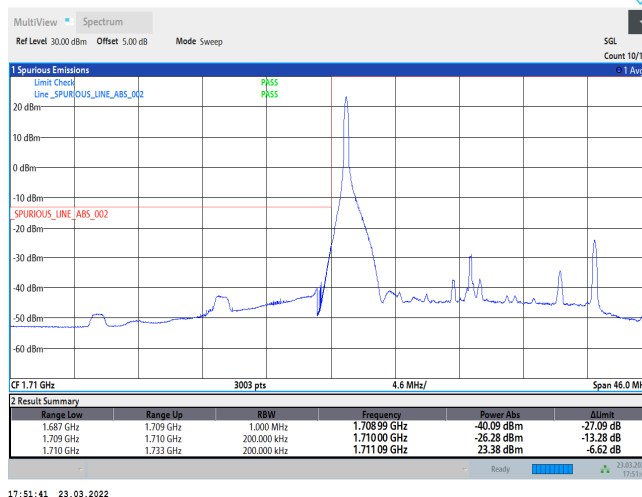
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### Band4-20MHz-QPSK-20050-1RB#0



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



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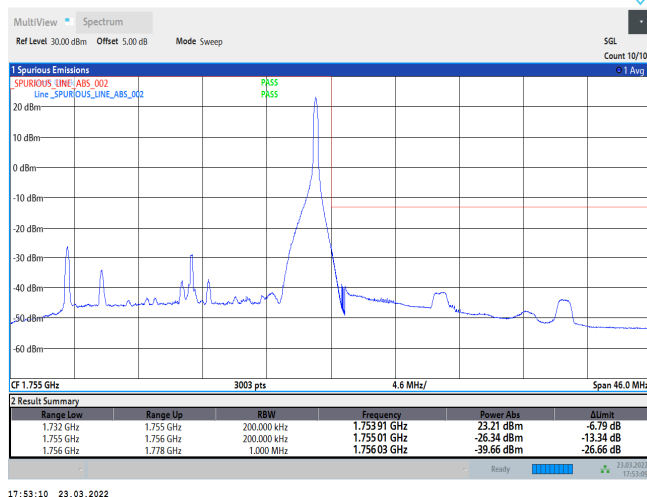
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### Band4-20MHz-QPSK-20300-1RB#99



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



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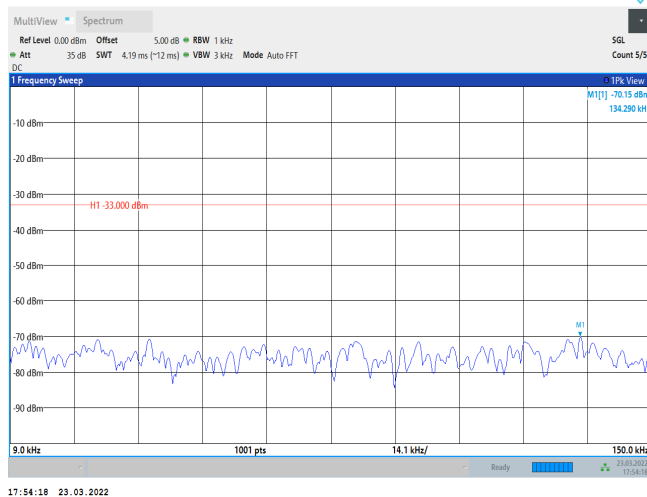
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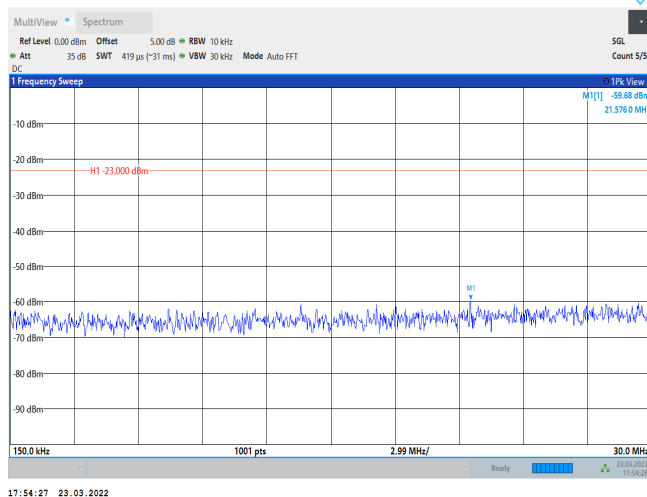
### Conducted Spurious Emission

#### 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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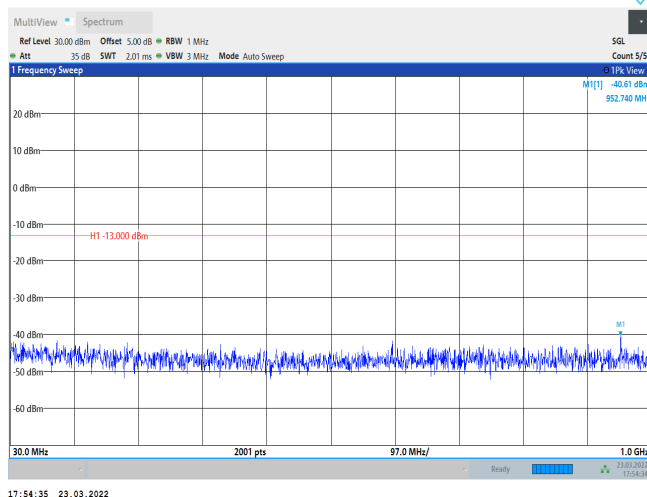


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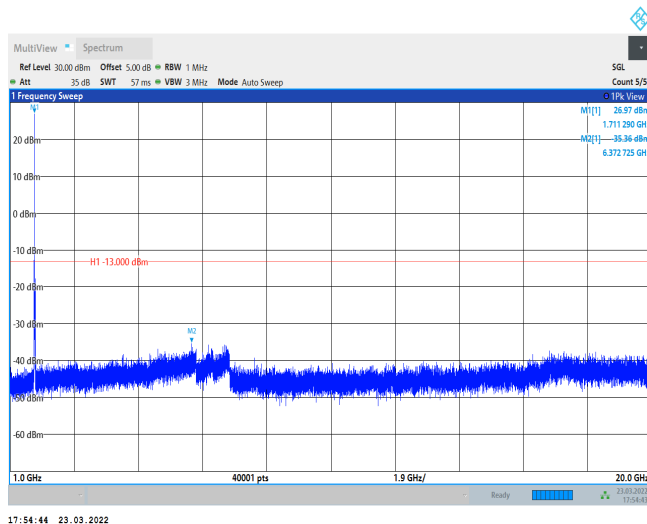
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### Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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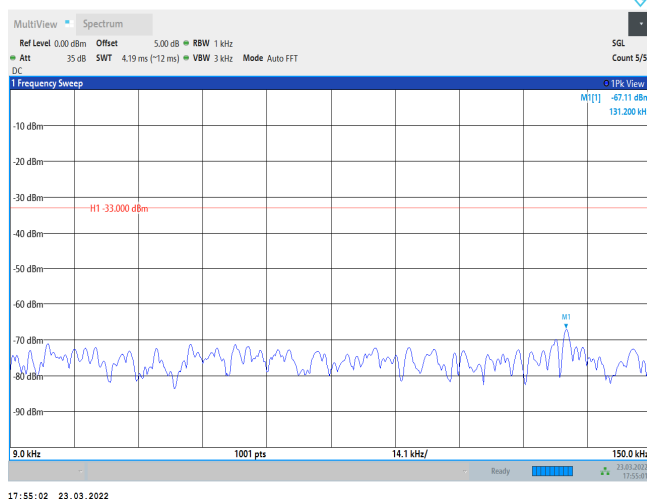
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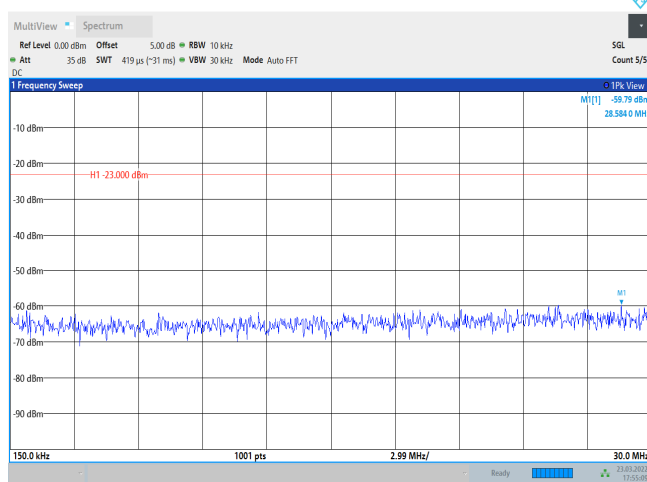
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### Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



17:55:02 23.03.2022

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



17:55:10 23.03.2022



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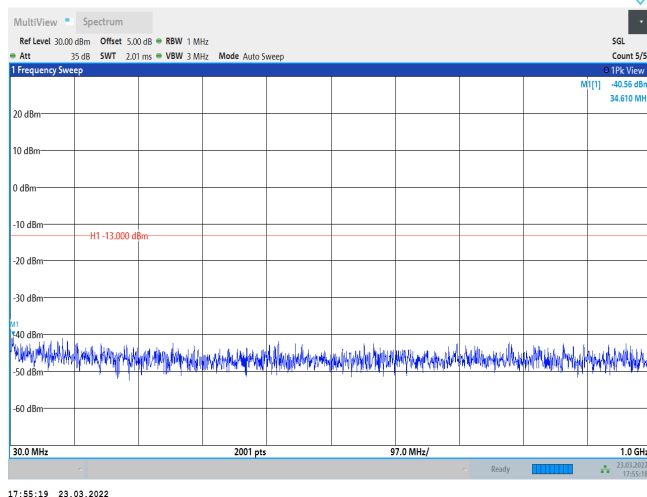
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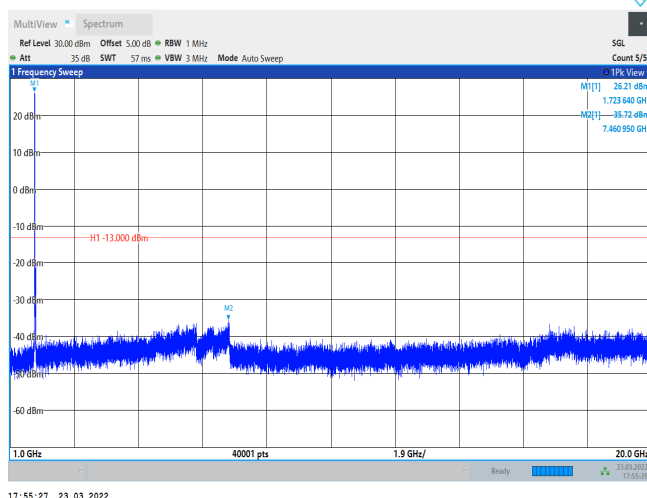
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### Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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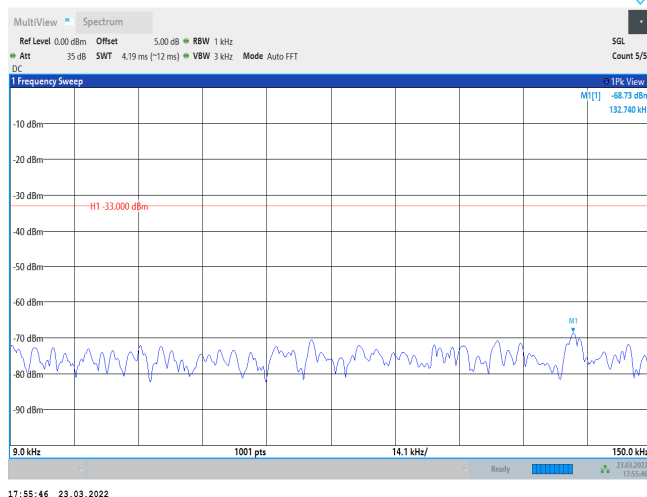
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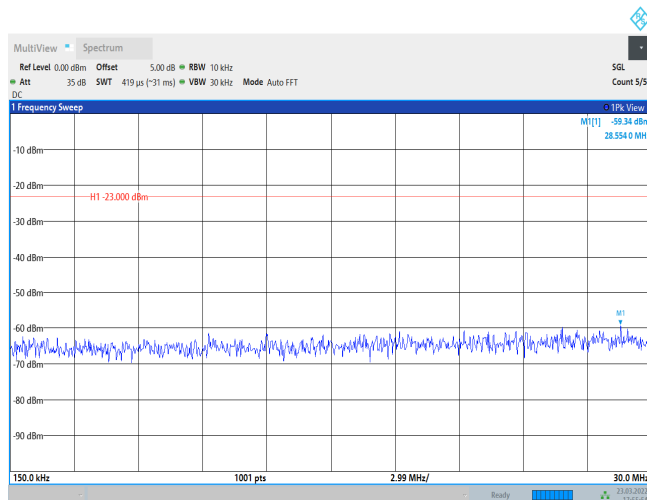
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### Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



17:55:46 23.03.2022

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



17:55:54 23.03.2022



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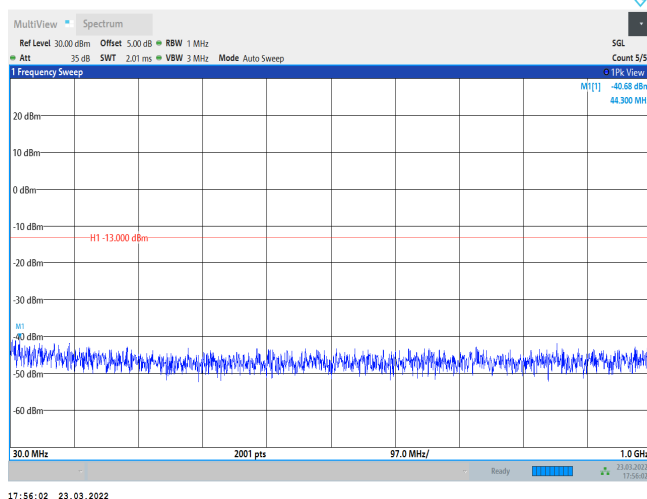
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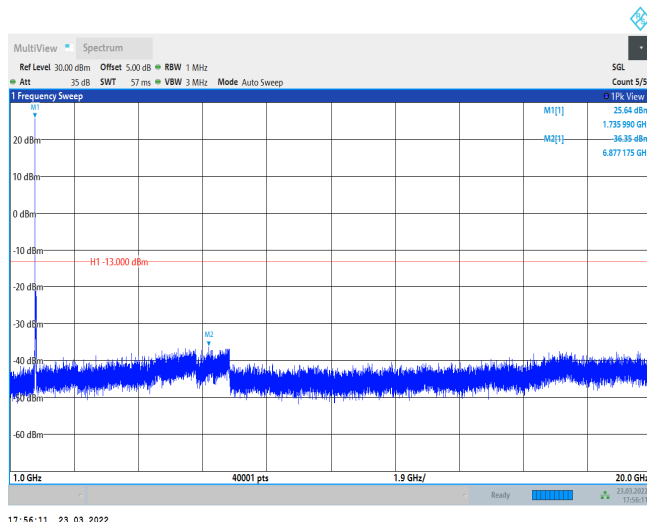
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### Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = \_Band4 TM1

Test Channel = Low

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3422.1800       | 68.73          | -112.09     | -43.36      | -13.00      | 30.36       | 214         | 111       | Horizontal |
| 2               | 5133            | 67.93          | -107.65     | -39.72      | -13.00      | 26.72       | 129         | 197       | Horizontal |
| 3               | 6844.3600       | 64.89          | -103.51     | -38.62      | -13.00      | 25.62       | 174         | 3         | Horizontal |
| 4               | 8555.4500       | 51.47          | -99.06      | -47.59      | -13.00      | 34.59       | 233         | 311       | Horizontal |
| 5               | 10266.5400      | 42.98          | -95.66      | -52.68      | -13.00      | 39.68       | 205         | 13        | Horizontal |
| 6               | 11977.6300      | 40.48          | -93.83      | -53.35      | -13.00      | 40.35       | 160         | 359       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3422.1800       | 70.58          | -112.09     | -41.51      | -13.00      | 28.51       | 124         | 140       | Vertical |
| 2               | 5133.2700       | 63.92          | -107.65     | -43.73      | -13.00      | 30.73       | 186         | 111       | Vertical |
| 3               | 6844.3600       | 58.05          | -103.51     | -45.46      | -13.00      | 32.46       | 231         | 97        | Vertical |
| 4               | 8555.4500       | 59.43          | -99.06      | -39.63      | -13.00      | 26.63       | 166         | 183       | Vertical |
| 5               | 10266           | 49.58          | -95.66      | -46.08      | -13.00      | 33.08       | 180         | 154       | Vertical |
| 6               | 11977.6300      | 43.03          | -93.83      | -50.80      | -13.00      | 37.80       | 170         | 296       | Vertical |



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Test Band = \_Band4 TM1

Test Channel = Mid

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3447            | 77.29          | -112.06     | -34.77      | -13.00      | 21.77       | 214         | 115       | Horizontal |
| 2               | 5170.7700       | 75.54          | -107.59     | -32.05      | -13.00      | 19.05       | 181         | 243       | Horizontal |
| 3               | 6894.3600       | 75.74          | -103.41     | -27.67      | -13.00      | 14.67       | 196         | 102       | Horizontal |
| 4               | 8617.9500       | 56.99          | -98.88      | -41.89      | -13.00      | 28.89       | 271         | 233       | Horizontal |
| 5               | 10341.5400      | 43.69          | -95.47      | -51.78      | -13.00      | 38.78       | 201         | 266       | Horizontal |
| 6               | 12065.1300      | 40.72          | -93.68      | -52.96      | -13.00      | 39.96       | 238         | 191       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3447            | 78.06          | -112.06     | -34.00      | -13.00      | 21.00       | 231         | 296       | Vertical |
| 2               | 5170.7700       | 67.38          | -107.59     | -40.21      | -13.00      | 27.21       | 105         | 154       | Vertical |
| 3               | 6894.3600       | 62.99          | -103.41     | -40.42      | -13.00      | 27.42       | 186         | 349       | Vertical |
| 4               | 8617.9500       | 58.20          | -98.88      | -40.68      | -13.00      | 27.68       | 194         | 311       | Vertical |
| 5               | 10341.5400      | 47.91          | -95.47      | -47.56      | -13.00      | 34.56       | 170         | 168       | Vertical |
| 6               | 12065.1300      | 40.53          | -93.68      | -53.15      | -13.00      | 40.15       | 201         | 41        | Vertical |



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**Test Band = \_Band4 TM1**
**Test Channel = High**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3472.1800       | 76.45          | -112.03     | -35.58      | -13.00      | 22.58       | 165         | 98        | Horizontal |
| 2               | 5208.2700       | 75.99          | -107.54     | -31.55      | -13.00      | 18.55       | 195         | 183       | Horizontal |
| 3               | 6944.25         | 69.98          | -103.10     | -33.12      | -13.00      | 20.12       | 185         | 310       | Horizontal |
| 4               | 8680.4500       | 58.15          | -99.00      | -40.85      | -13.00      | 27.85       | 142         | 324       | Horizontal |
| 5               | 10416.5400      | 42.97          | -95.36      | -52.39      | -13.00      | 39.39       | 208         | 69        | Horizontal |
| 6               | 12152.6300      | 41.35          | -93.59      | -52.24      | -13.00      | 39.24       | 199         | 295       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3472.1800       | 75.72          | -112.03     | -36.31      | -13.00      | 23.31       | 132         | 79        | Vertical |
| 2               | 5208.2700       | 66.61          | -107.54     | -40.93      | -13.00      | 27.93       | 269         | 358       | Vertical |
| 3               | 6944.25         | 61.62          | -103.10     | -41.48      | -13.00      | 28.48       | 184         | 290       | Vertical |
| 4               | 8680.4500       | 51.38          | -99.00      | -47.62      | -13.00      | 34.62       | 172         | 163       | Vertical |
| 5               | 10416.5400      | 49.20          | -95.36      | -46.16      | -13.00      | 33.16       | 102         | 176       | Vertical |
| 6               | 12152.6300      | 41.07          | -93.59      | -52.52      | -13.00      | 39.52       | 222         | 79        | Vertical |



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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               | -3.00          | -0.001732       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | -1.80          | -0.001039       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | -8.10          | -0.004675       | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | -2.70          | -0.001558       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -20              | 1.40           | 0.000808        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -10              | -7.20          | -0.004156       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 0                | -1.20          | -0.000693       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 10               | -4.40          | -0.002540       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 20               | -4.60          | -0.002655       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 30               | -1.00          | -0.000577       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 40               | -5.10          | -0.002944       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 50               | 1.90           | 0.001097        | PASS    |

The End



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