

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 41

RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-------|---------|-----------|-----------------------|
| QPSK | 2498.5 | 39675 | 5 | 1 | 0 | 23.59 |
| | | | | 1 | 12 | 23.50 |
| | | | | 1 | 24 | 23.48 |
| | | | | 12 | 0 | 22.58 |
| | | | | 12 | 7 | 22.56 |
| | | | | 12 | 13 | 22.56 |
| | 25 | 0 | | 22.49 | | |
| | 2593 | 40620 | | 1 | 0 | 23.21 |
| | | | | 1 | 12 | 23.29 |
| | | | | 1 | 24 | 23.29 |
| | | | | 12 | 0 | 22.30 |
| | | | | 12 | 7 | 22.30 |
| | | | | 12 | 13 | 22.30 |
| | 25 | 0 | | 22.31 | | |
| | 2687.5 | 41565 | | 1 | 0 | 23.41 |
| | | | | 1 | 12 | 23.28 |
| | | | | 1 | 24 | 23.35 |
| | | | | 12 | 0 | 22.41 |
| 12 | | | 7 | 22.48 | | |
| 12 | | | 13 | 22.41 | | |
| 25 | 0 | 22.51 | | | | |
| 16QAM | 2498.5 | 39675 | 1 | 0 | 23.08 | |
| | | | 1 | 12 | 22.97 | |
| | | | 1 | 24 | 22.99 | |
| | | | 12 | 0 | 21.61 | |
| | | | 12 | 7 | 21.57 | |
| | | | 12 | 13 | 21.50 | |
| | 25 | 0 | 21.60 | | | |
| | 2593 | 40620 | 1 | 0 | 22.43 | |
| | | | 1 | 12 | 22.52 | |
| | | | 1 | 24 | 22.52 | |
| | | | 12 | 0 | 21.30 | |
| | | | 12 | 7 | 21.29 | |
| | | | 12 | 13 | 21.29 | |
| | 25 | 0 | 21.32 | | | |
| | 2687.5 | 41565 | 1 | 0 | 22.71 | |
| | | | 1 | 12 | 22.76 | |
| | | | 1 | 24 | 22.76 | |
| | | | 12 | 0 | 21.50 | |
| 12 | | | 7 | 21.47 | | |
| 12 | | | 13 | 21.47 | | |
| 25 | 0 | 21.46 | | | | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 2498.5 | 39675 | 5 | 1 | 0 | 21.60 |
| | | | | 1 | 12 | 21.59 |
| | | | | 1 | 24 | 21.57 |
| | | | | 12 | 0 | 21.57 |
| | | | | 12 | 7 | 21.56 |
| | | | | 12 | 13 | 21.61 |
| | | | | 25 | 0 | 21.57 |
| | 2593 | 40620 | | 1 | 0 | 21.27 |
| | | | | 1 | 12 | 21.33 |
| | | | | 1 | 24 | 21.26 |
| | | | | 12 | 0 | 21.32 |
| | | | | 12 | 7 | 21.25 |
| | | | | 12 | 13 | 21.25 |
| | | | | 25 | 0 | 21.33 |
| | 2687.5 | 41565 | | 1 | 0 | 21.43 |
| | | | | 1 | 12 | 21.47 |
| | | | | 1 | 24 | 21.49 |
| | | | | 12 | 0 | 21.46 |
| | | | | 12 | 7 | 21.49 |
| | | | | 12 | 13 | 21.51 |
| | | | | 25 | 0 | 21.46 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-------|---------|-----------|-----------------------|
| QPSK | 2501 | 39700 | 10 | 1 | 0 | 23.59 |
| | | | | 1 | 25 | 23.45 |
| | | | | 1 | 49 | 23.47 |
| | | | | 25 | 0 | 22.76 |
| | | | | 25 | 12 | 22.65 |
| | | | | 25 | 25 | 22.64 |
| | 50 | 0 | | 22.72 | | |
| | 1 | 0 | | 23.39 | | |
| | 1 | 25 | | 23.34 | | |
| | 1 | 49 | | 23.30 | | |
| | 25 | 0 | | 22.38 | | |
| | 25 | 12 | | 22.41 | | |
| | 25 | 25 | | 22.43 | | |
| | 50 | 0 | | 22.45 | | |
| | 1 | 0 | | 23.54 | | |
| | 1 | 25 | | 23.55 | | |
| | 1 | 49 | | 23.52 | | |
| | 16QAM | 2501 | | 39700 | 25 | 0 |
| 25 | | | 12 | | 22.57 | |
| 25 | | | 25 | | 22.58 | |
| 50 | | | 0 | | 22.45 | |
| 1 | | | 0 | | 23.15 | |
| 1 | | | 25 | | 23.02 | |
| 1 | | 49 | 23.45 | | | |
| 25 | | 0 | 21.82 | | | |
| 25 | | 12 | 21.77 | | | |
| 25 | | 25 | 21.76 | | | |
| 50 | | 0 | 21.77 | | | |
| 1 | | 0 | 22.36 | | | |
| 1 | | 25 | 22.40 | | | |
| 1 | | 49 | 22.33 | | | |
| 25 | | 0 | 21.33 | | | |
| 25 | | 12 | 21.38 | | | |
| 25 | | 25 | 21.42 | | | |
| 50 | | 0 | 21.29 | | | |
| 2685 | 41540 | 1 | 0 | 22.52 | | |
| | | 1 | 25 | 22.64 | | |
| | | 1 | 49 | 22.43 | | |
| | | 25 | 0 | 21.53 | | |
| | | 25 | 12 | 21.44 | | |
| | | 25 | 25 | 21.57 | | |
| 50 | 0 | 21.54 | | | | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 2501 | 39700 | 10 | 1 | 0 | 21.73 |
| | | | | 1 | 25 | 21.72 |
| | | | | 1 | 49 | 21.72 |
| | | | | 25 | 0 | 21.72 |
| | | | | 25 | 12 | 21.72 |
| | | | | 25 | 25 | 21.76 |
| | 50 | 0 | | 21.72 | | |
| | 2593 | 40620 | | 1 | 0 | 21.36 |
| | | | | 1 | 25 | 21.36 |
| | | | | 1 | 49 | 21.34 |
| | | | | 25 | 0 | 21.35 |
| | | | | 25 | 12 | 21.34 |
| | | | | 25 | 25 | 21.31 |
| | 50 | 0 | | 21.35 | | |
| | 2685 | 41540 | | 1 | 0 | 21.51 |
| | | | | 1 | 25 | 21.48 |
| | | | | 1 | 49 | 21.59 |
| | | | | 25 | 0 | 21.54 |
| | | | | 25 | 12 | 21.52 |
| | | | | 25 | 25 | 21.50 |
| | 50 | 0 | | 21.54 | | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 2507.5 | 39725 | 15 | 1 | 0 | 23.42 |
| | | | | 1 | 37 | 23.31 |
| | | | | 1 | 74 | 23.24 |
| | | | | 36 | 0 | 22.54 |
| | | | | 36 | 29 | 22.53 |
| | | | | 36 | 30 | 22.51 |
| | 2593 | 40620 | | 75 | 0 | 22.55 |
| | | | | 1 | 0 | 23.11 |
| | | | | 1 | 37 | 23.14 |
| | | | | 1 | 74 | 23.10 |
| | | | | 36 | 0 | 22.21 |
| | | | | 36 | 29 | 22.27 |
| | 2682.5 | 41515 | | 36 | 30 | 22.30 |
| | | | | 75 | 0 | 22.15 |
| | | | | 1 | 0 | 23.51 |
| | | | | 1 | 37 | 23.51 |
| | | | | 1 | 74 | 23.49 |
| | | | | 36 | 0 | 22.42 |
| 16QAM | 2507.5 | 39725 | 36 | 29 | 22.52 | |
| | | | 36 | 30 | 22.44 | |
| | | | 75 | 0 | 22.39 | |
| | | | 1 | 0 | 22.87 | |
| | | | 1 | 37 | 22.73 | |
| | | | 1 | 74 | 22.73 | |
| | 2593 | 40620 | 36 | 0 | 21.51 | |
| | | | 36 | 29 | 21.54 | |
| | | | 36 | 30 | 21.54 | |
| | | | 75 | 0 | 21.54 | |
| | | | 1 | 0 | 22.20 | |
| | | | 1 | 37 | 22.26 | |
| | 2682.5 | 41515 | 1 | 74 | 22.27 | |
| | | | 36 | 0 | 21.19 | |
| | | | 36 | 29 | 21.23 | |
| | | | 36 | 30 | 21.24 | |
| | | | 75 | 0 | 21.19 | |
| | | | 1 | 0 | 22.41 | |
| | | | 1 | 37 | 22.43 | |
| | | | 1 | 74 | 22.40 | |
| | | | 36 | 0 | 21.43 | |
| | | | 36 | 29 | 21.48 | |
| | | | 36 | 30 | 21.47 | |
| | | | 75 | 0 | 21.37 | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 2507.5 | 39725 | 15 | 1 | 0 | 21.54 |
| | | | | 1 | 37 | 21.60 |
| | | | | 1 | 74 | 21.54 |
| | | | | 36 | 0 | 21.53 |
| | | | | 36 | 29 | 21.63 |
| | | | | 36 | 30 | 21.63 |
| | | | | 75 | 0 | 21.56 |
| | 2593 | 40620 | | 1 | 0 | 21.20 |
| | | | | 1 | 37 | 21.24 |
| | | | | 1 | 74 | 21.19 |
| | | | | 36 | 0 | 21.20 |
| | | | | 36 | 29 | 21.24 |
| | | | | 36 | 30 | 21.24 |
| | | | | 75 | 0 | 21.30 |
| | 2682.5 | 41515 | | 1 | 0 | 21.37 |
| | | | | 1 | 37 | 21.36 |
| | | | | 1 | 74 | 21.37 |
| | | | | 36 | 0 | 21.44 |
| | | | | 36 | 29 | 21.41 |
| | | | | 36 | 30 | 21.38 |
| | | | | 75 | 0 | 21.37 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-------|---------|-----------|-----------------------|
| QPSK | 2506 | 39750 | 20 | 1 | 0 | 23.43 |
| | | | | 1 | 49 | 23.33 |
| | | | | 1 | 99 | 23.36 |
| | | | | 50 | 0 | 22.56 |
| | | | | 50 | 24 | 22.51 |
| | | | | 50 | 50 | 22.44 |
| | 100 | 0 | | 22.52 | | |
| | 2593 | 40620 | | 1 | 0 | 23.19 |
| | | | | 1 | 49 | 23.26 |
| | | | | 1 | 99 | 23.28 |
| | | | | 50 | 0 | 22.25 |
| | | | | 50 | 24 | 22.30 |
| | | | | 50 | 50 | 22.22 |
| | 100 | 0 | | 22.24 | | |
| | 2680 | 41490 | | 1 | 0 | 23.24 |
| | | | | 1 | 49 | 23.39 |
| | | | | 1 | 99 | 23.45 |
| | | | | 50 | 0 | 22.27 |
| 50 | | | 24 | 22.42 | | |
| 50 | | | 50 | 22.43 | | |
| 100 | 0 | 22.37 | | | | |
| 16QAM | 2506 | 39750 | 1 | 0 | 22.76 | |
| | | | 1 | 49 | 22.58 | |
| | | | 1 | 99 | 22.57 | |
| | | | 50 | 0 | 21.56 | |
| | | | 50 | 24 | 21.42 | |
| | | | 50 | 50 | 21.49 | |
| | 100 | 0 | 21.49 | | | |
| | 2593 | 40620 | 1 | 0 | 22.36 | |
| | | | 1 | 49 | 22.37 | |
| | | | 1 | 99 | 22.37 | |
| | | | 50 | 0 | 21.18 | |
| | | | 50 | 24 | 21.22 | |
| | | | 50 | 50 | 21.24 | |
| | 100 | 0 | 21.22 | | | |
| | 2680 | 41490 | 1 | 0 | 21.91 | |
| | | | 1 | 49 | 22.04 | |
| | | | 1 | 99 | 22.04 | |
| | | | 50 | 0 | 21.33 | |
| 50 | | | 24 | 21.50 | | |
| 50 | | | 50 | 21.53 | | |
| 100 | 0 | 21.44 | | | | |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 64QAM | 2506 | 39750 | 20 | 1 | 0 | 21.45 |
| | | | | 1 | 49 | 21.52 |
| | | | | 1 | 99 | 21.56 |
| | | | | 50 | 0 | 21.59 |
| | | | | 50 | 24 | 21.53 |
| | | | | 50 | 50 | 21.46 |
| | | | | 100 | 0 | 21.57 |
| | 2593 | 40620 | | 1 | 0 | 21.27 |
| | | | | 1 | 49 | 21.26 |
| | | | | 1 | 99 | 21.23 |
| | | | | 50 | 0 | 21.26 |
| | | | | 50 | 24 | 21.26 |
| | | | | 50 | 50 | 21.26 |
| | | | | 100 | 0 | 21.26 |
| | 2680 | 41490 | | 1 | 0 | 21.36 |
| | | | | 1 | 49 | 21.43 |
| | | | | 1 | 99 | 21.42 |
| | | | | 50 | 0 | 21.42 |
| | | | | 50 | 24 | 21.39 |
| | | | | 50 | 50 | 21.39 |
| | | | | 100 | 0 | 21.39 |

Occupied Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) | | | | | |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | | 64-QAM | |
| 41 | 2498.5 | 39675 | 5 | 25 | 0 | 4.472 | Fig.1 | 4.472 | Fig.2 | 4.472 | Fig.3 |
| | 2593 | 40620 | | 25 | 0 | 4.472 | Fig.4 | 4.472 | Fig.5 | 4.472 | Fig.6 |
| | 2687.5 | 41565 | | 25 | 0 | 4.472 | Fig.7 | 4.472 | Fig.8 | 4.472 | Fig.9 |
| | 2501 | 39700 | 10 | 50 | 0 | 8.915 | Fig.10 | 8.915 | Fig.11 | 8.915 | Fig.12 |
| | 2593 | 40620 | | 50 | 0 | 8.915 | Fig.13 | 8.915 | Fig.14 | 8.915 | Fig.15 |
| | 2685 | 41540 | | 50 | 0 | 8.915 | Fig.16 | 8.915 | Fig.17 | 8.915 | Fig.18 |
| | 2507.5 | 39725 | 15 | 75 | 0 | 13.415 | Fig.19 | 13.459 | Fig.20 | 13.459 | Fig.21 |
| | 2593 | 40620 | | 75 | 0 | 13.459 | Fig.22 | 13.412 | Fig.23 | 13.459 | Fig.24 |
| | 2682.5 | 41515 | | 75 | 0 | 13.459 | Fig.25 | 13.459 | Fig.26 | 13.459 | Fig.27 |
| | 2506 | 39750 | 20 | 100 | 0 | 17.887 | Fig.28 | 17.887 | Fig.29 | 17.887 | Fig.30 |
| | 2593 | 40620 | | 100 | 0 | 17.829 | Fig.31 | 17.887 | Fig.32 | 17.887 | Fig.33 |
| | 2680 | 41490 | | 100 | 0 | 17.887 | Fig.34 | 17.945 | Fig.35 | 17.945 | Fig.36 |

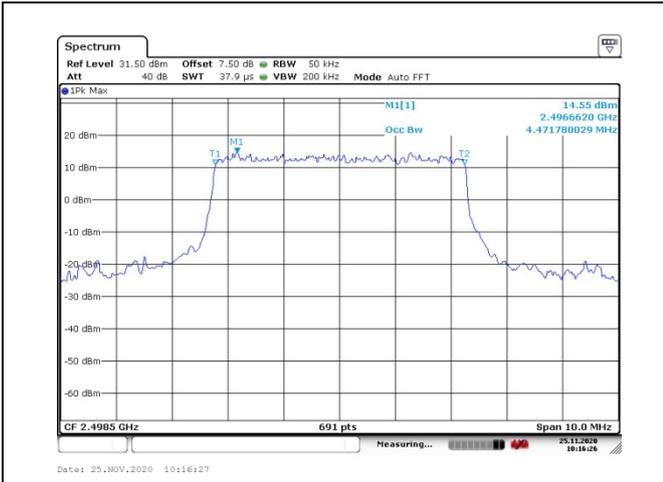


Fig.1



Fig.2

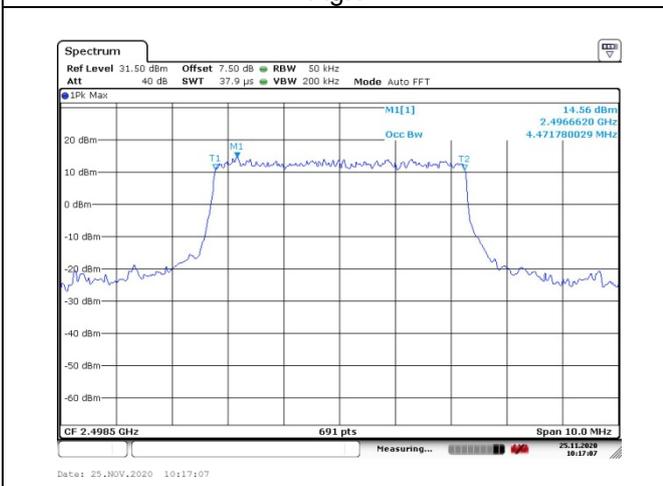


Fig.3

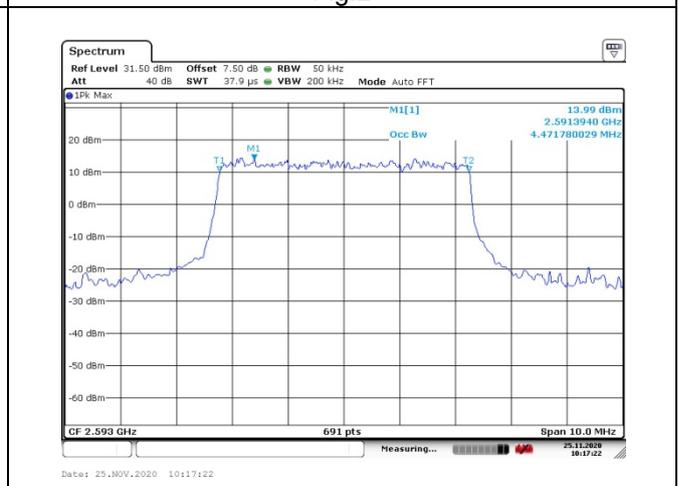


Fig.4

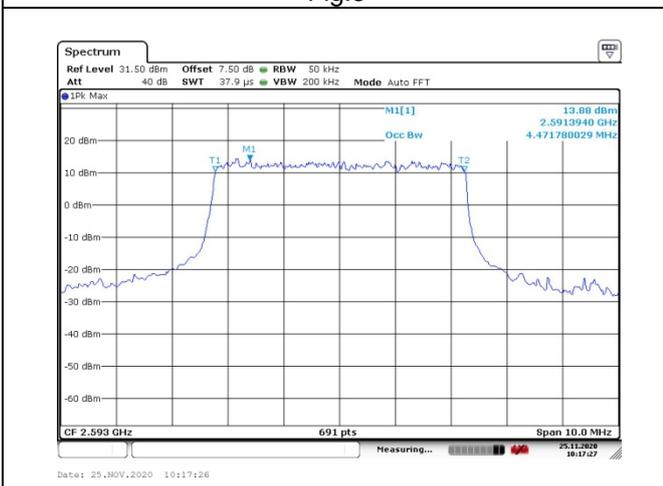


Fig.5

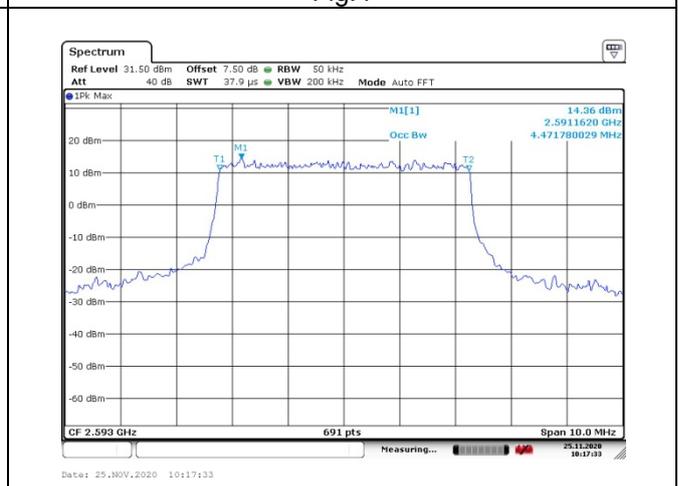


Fig.6

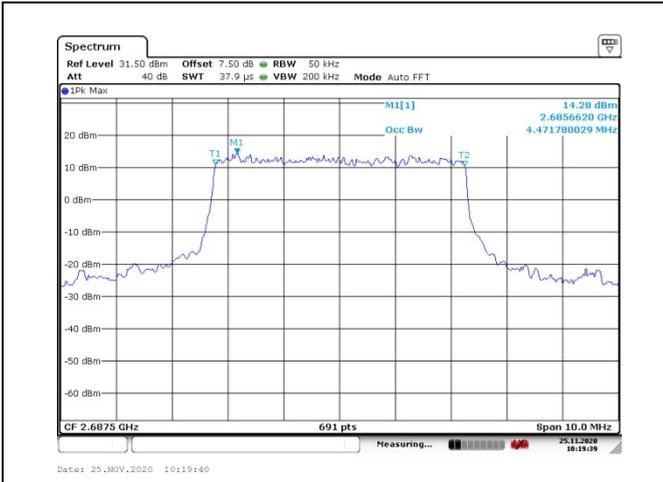


Fig.7

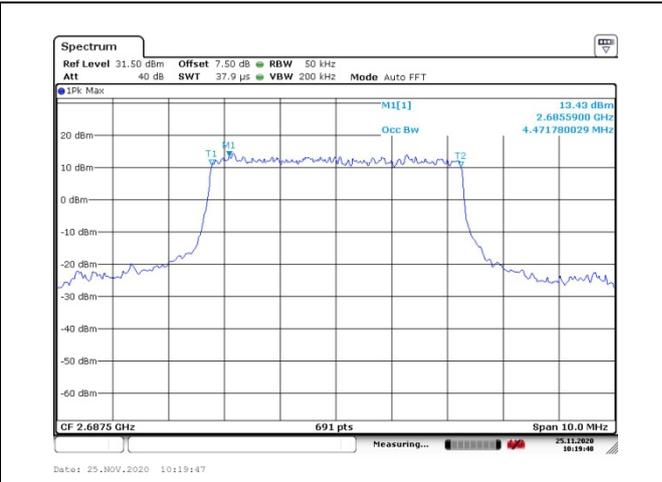


Fig.8

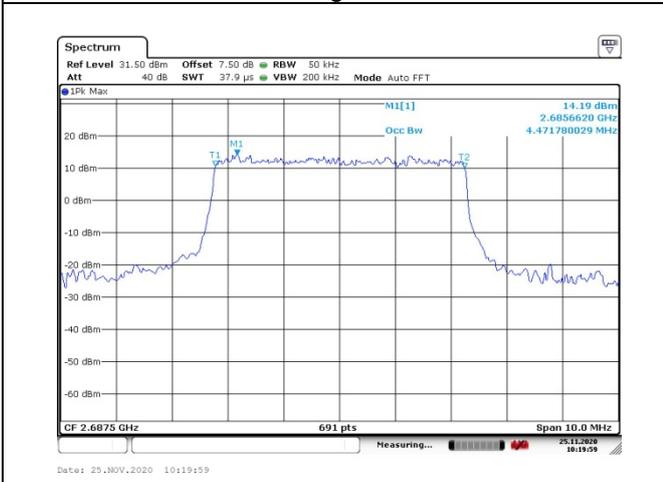


Fig.9

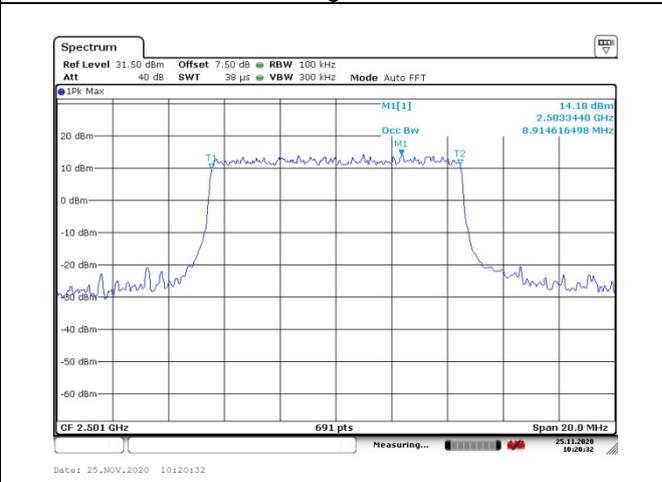


Fig.10

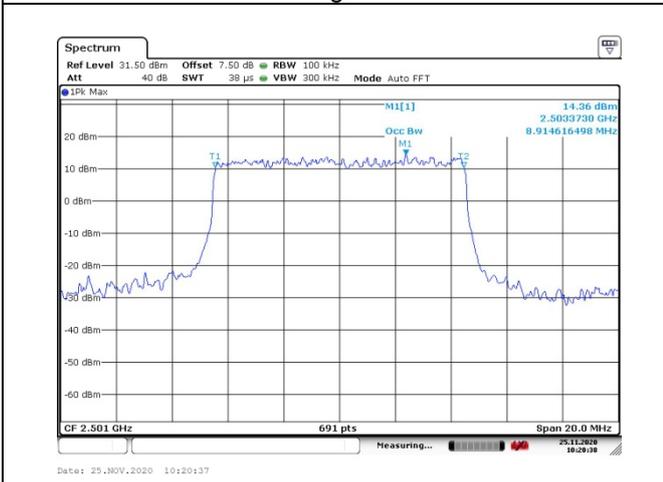


Fig.11

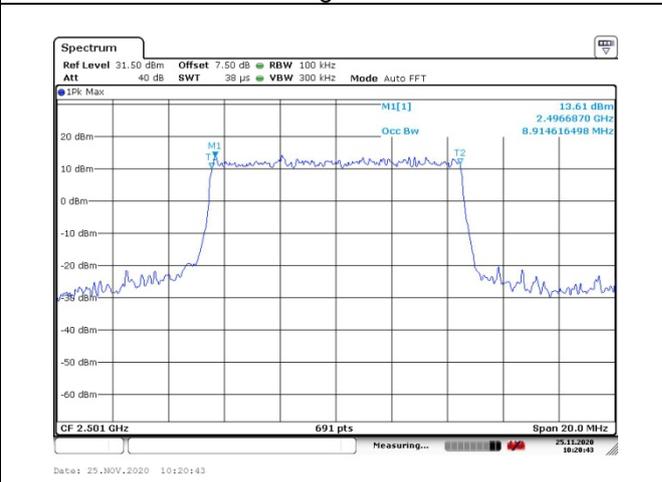


Fig.12

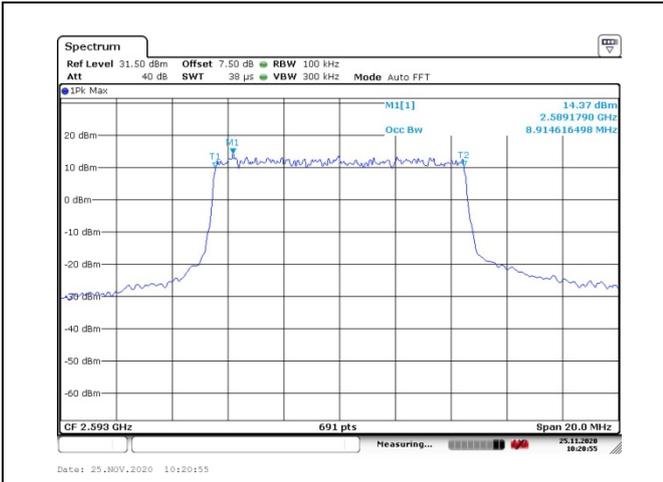


Fig.13

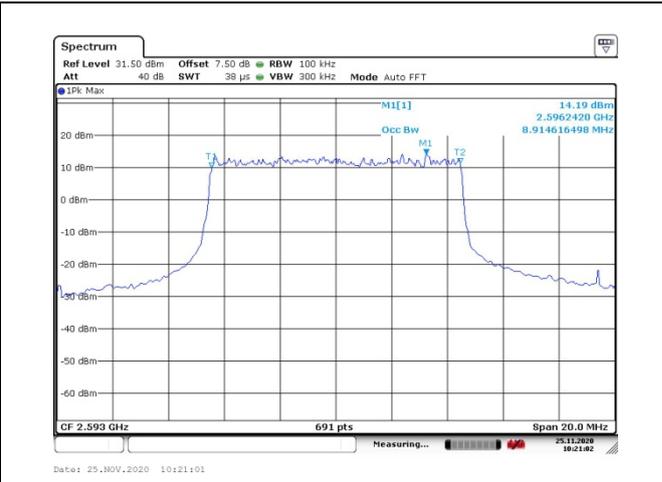


Fig.14

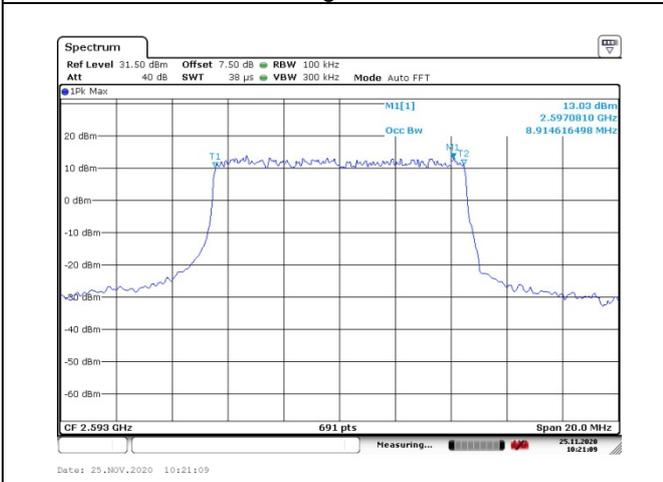


Fig.15

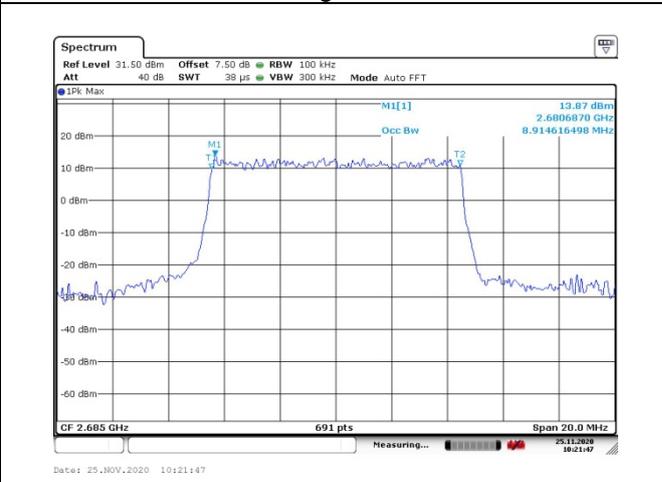


Fig.16

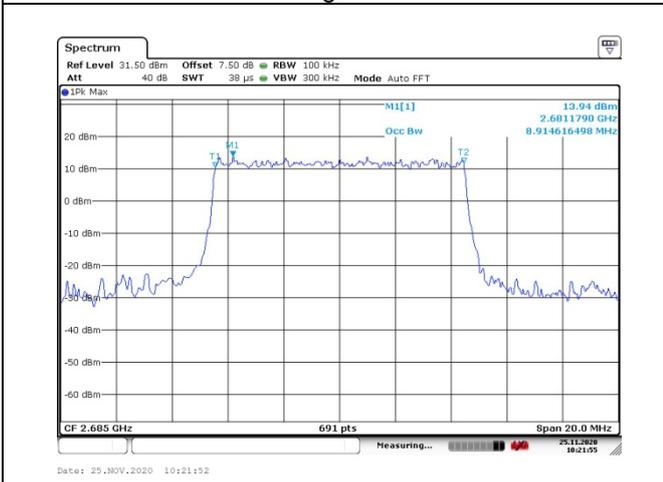


Fig.17

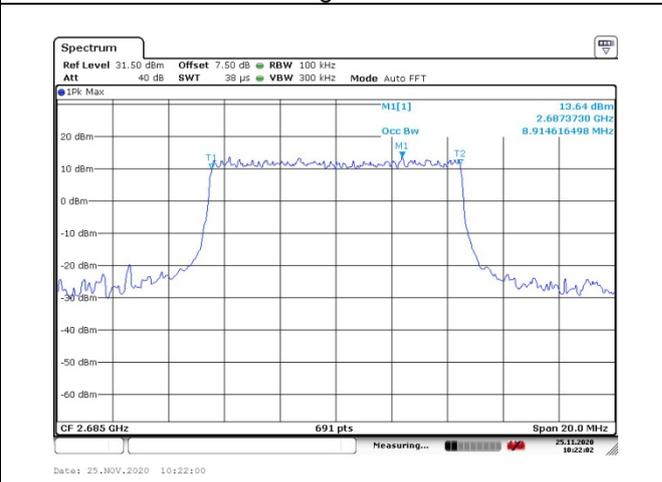


Fig.18

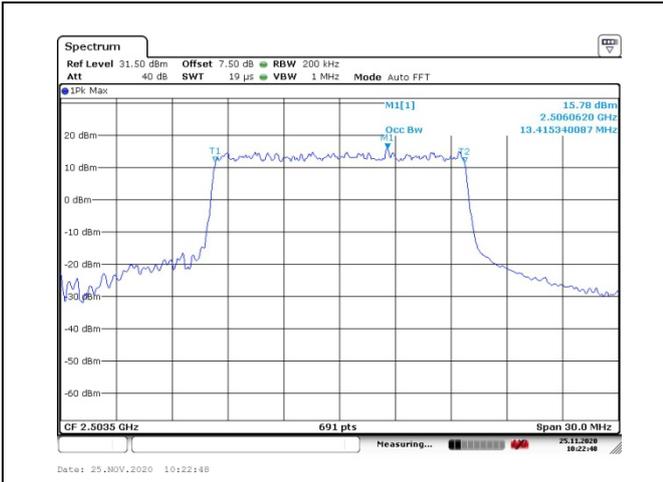


Fig.19

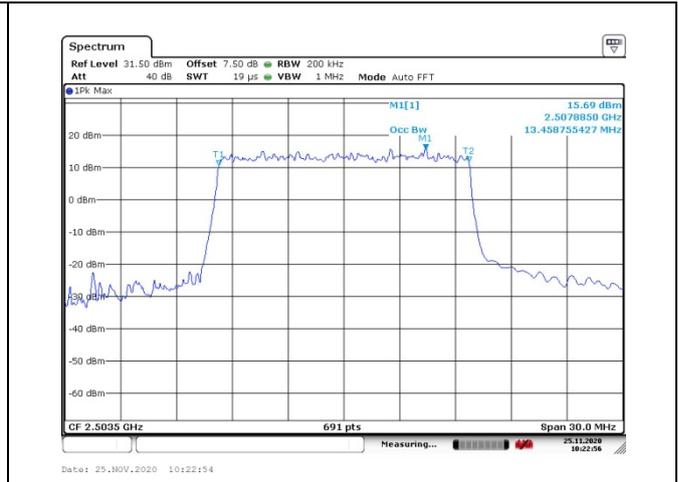


Fig.20

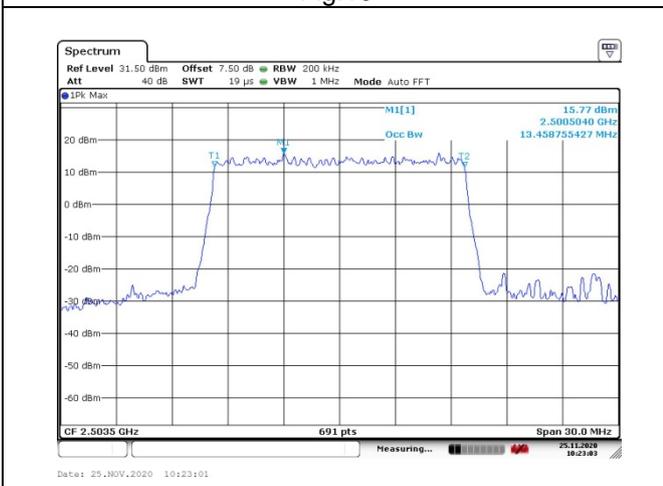


Fig.21

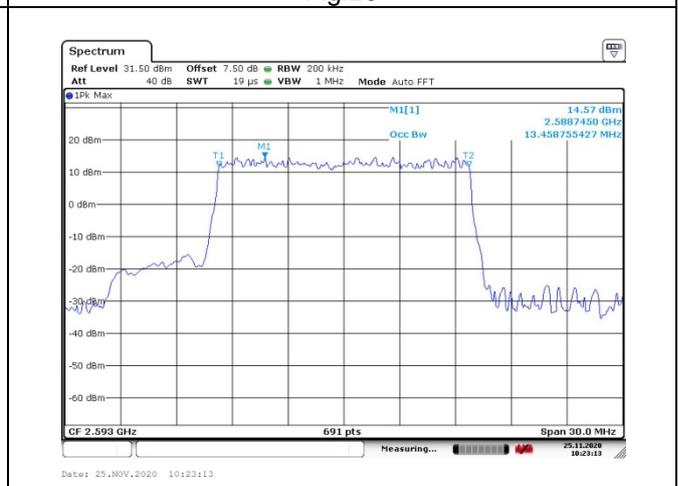


Fig.22

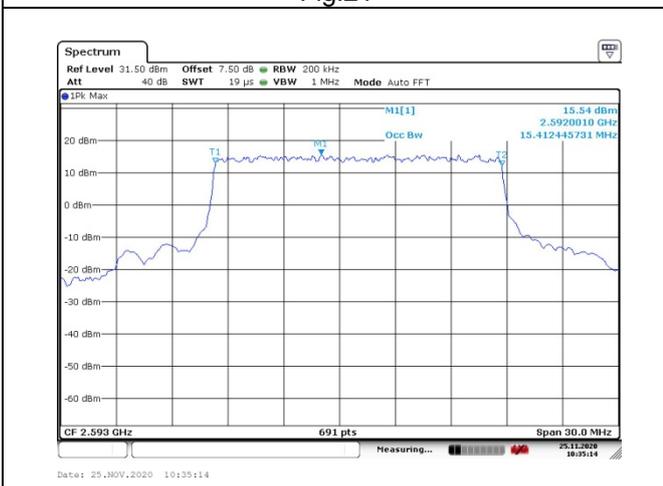


Fig.23

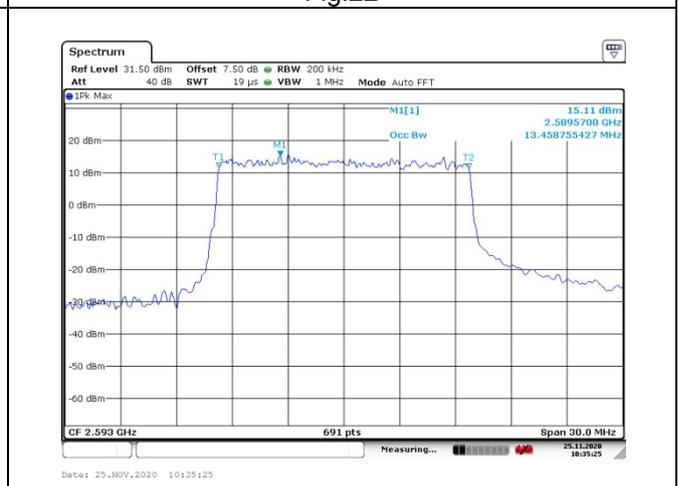
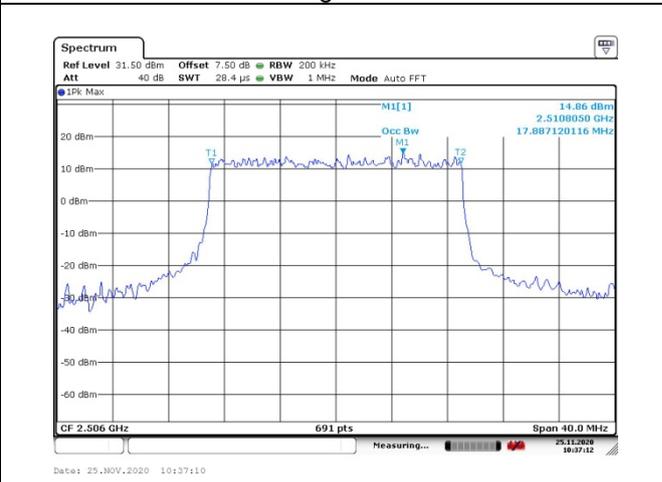
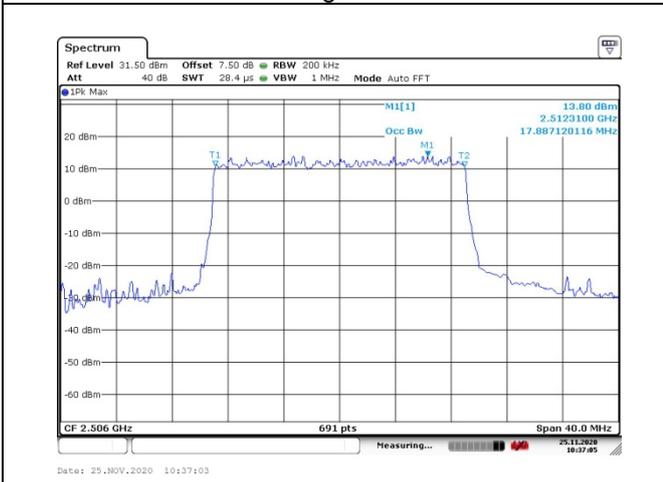
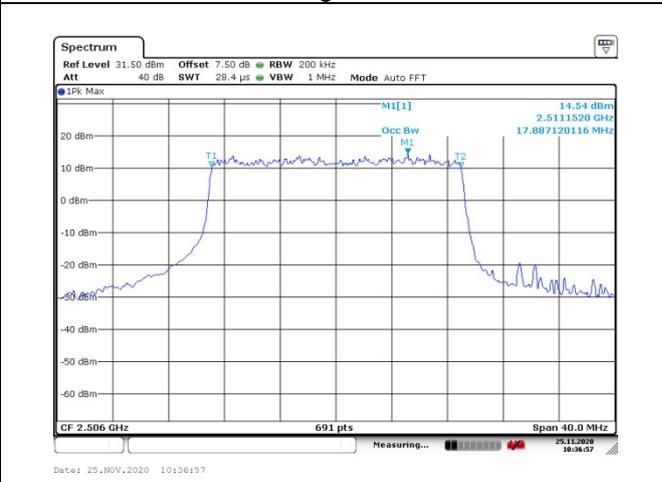
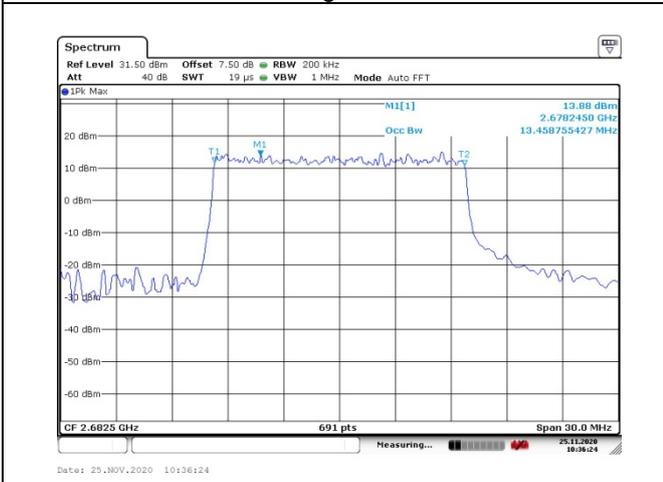
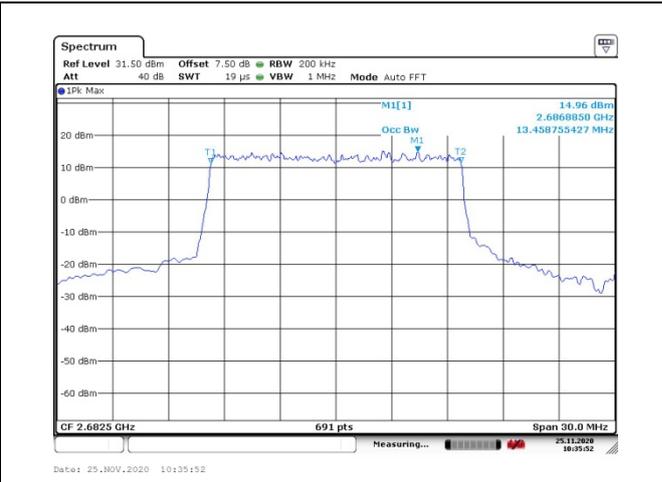
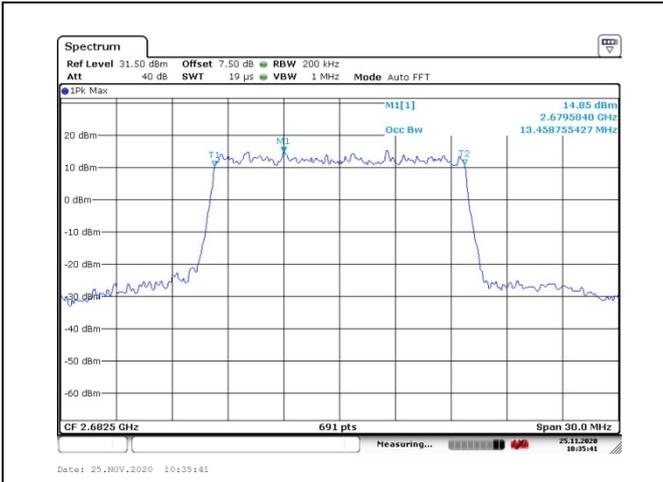


Fig.24



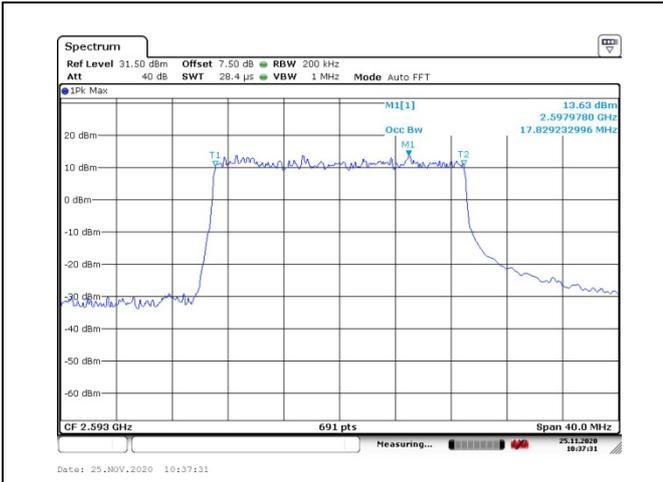


Fig.31

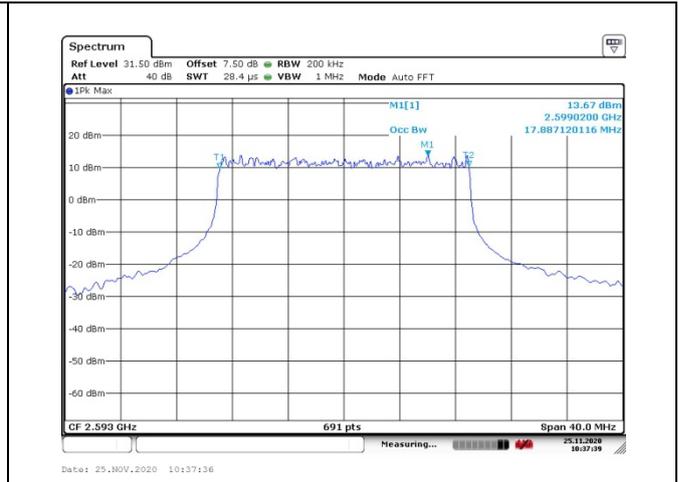


Fig.32

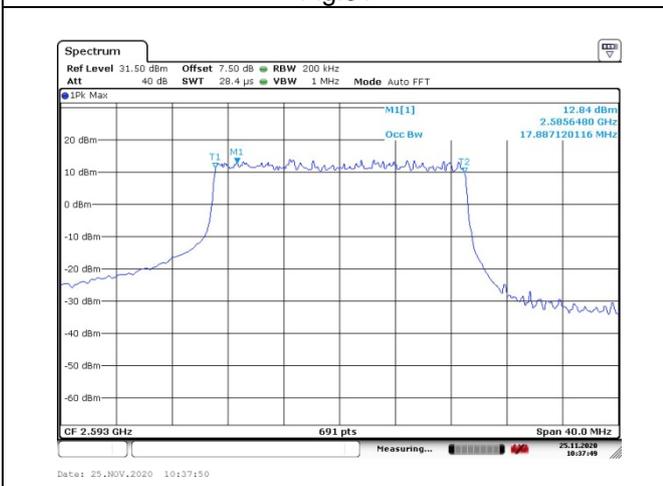


Fig.33

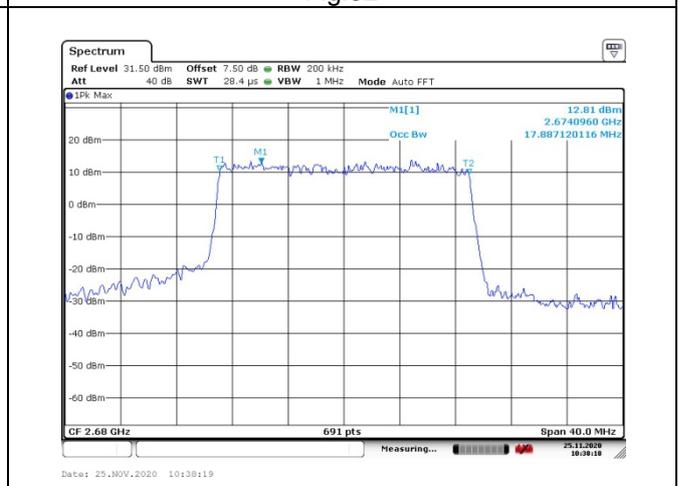


Fig.34

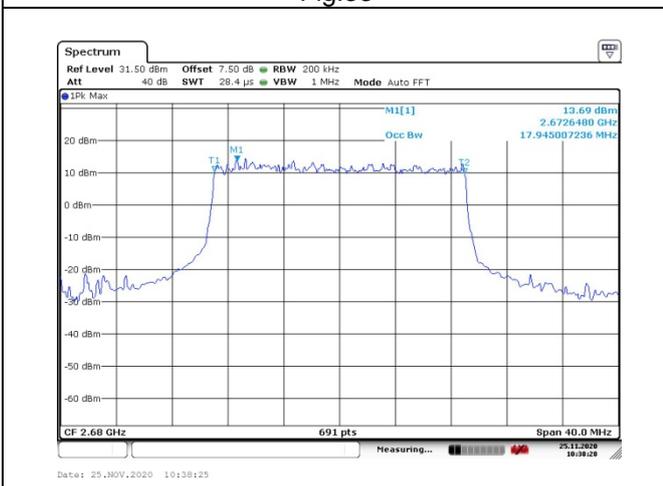


Fig.35

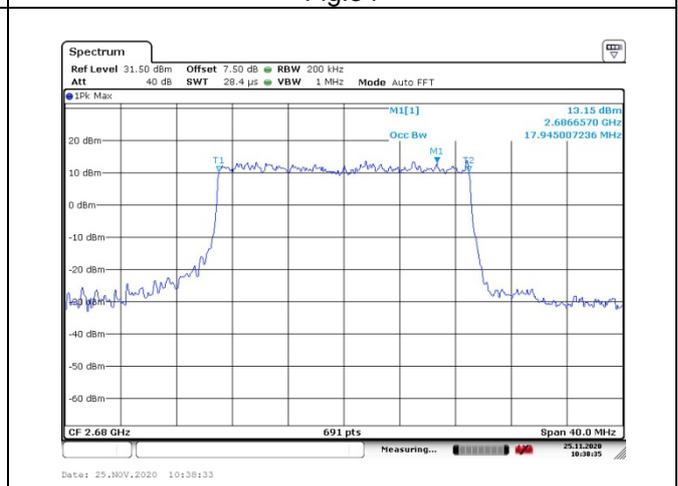


Fig.36

Emission Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) | | | | | |
|------|-------------------------|---------|----------|---------|-----------|--|--------|--------|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | | 64-QAM | |
| 41 | 2498.5 | 39675 | 5 | 25 | 0 | 4.964 | Fig.1 | 4.978 | Fig.2 | 4.935 | Fig.3 |
| | 2593 | 40620 | | 25 | 0 | 4.906 | Fig.4 | 4.964 | Fig.5 | 4.949 | Fig.6 |
| | 2687.5 | 41565 | | 25 | 0 | 4.887 | Fig.7 | 4.891 | Fig.8 | 4.920 | Fig.9 |
| | 2501 | 39700 | 10 | 50 | 0 | 9.580 | Fig.10 | 9.638 | Fig.11 | 9.638 | Fig.12 |
| | 2593 | 40620 | | 50 | 0 | 9.638 | Fig.13 | 9.638 | Fig.14 | 9.696 | Fig.15 |
| | 2685 | 41540 | | 50 | 0 | 9.580 | Fig.16 | 9.580 | Fig.17 | 9.551 | Fig.18 |
| | 2507.5 | 39725 | 15 | 75 | 0 | 14.501 | Fig.19 | 14.588 | Fig.20 | 14.327 | Fig.21 |
| | 2593 | 40620 | | 75 | 0 | 14.414 | Fig.22 | 14.370 | Fig.23 | 14.414 | Fig.24 |
| | 2682.5 | 41515 | | 75 | 0 | 14.761 | Fig.25 | 14.544 | Fig.26 | 14.501 | Fig.27 |
| | 2506 | 39750 | 20 | 100 | 0 | 19.276 | Fig.28 | 19.103 | Fig.29 | 19.045 | Fig.30 |
| | 2593 | 40620 | | 100 | 0 | 19.334 | Fig.31 | 19.103 | Fig.32 | 19.219 | Fig.33 |
| | 2680 | 41490 | | 100 | 0 | 19.334 | Fig.34 | 19.334 | Fig.35 | 18.987 | Fig.36 |

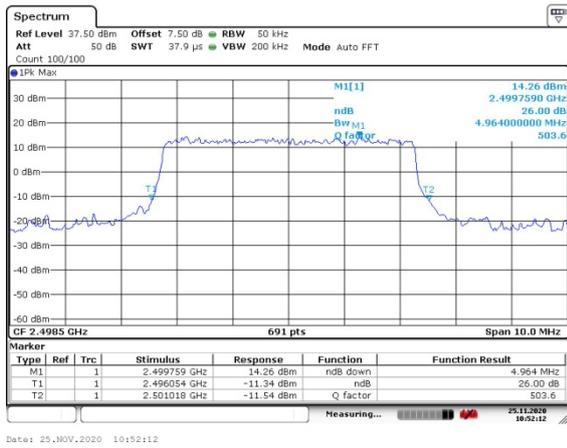


Fig.1

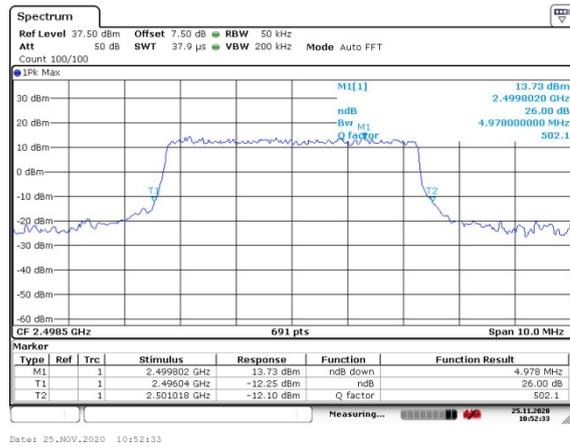


Fig.2

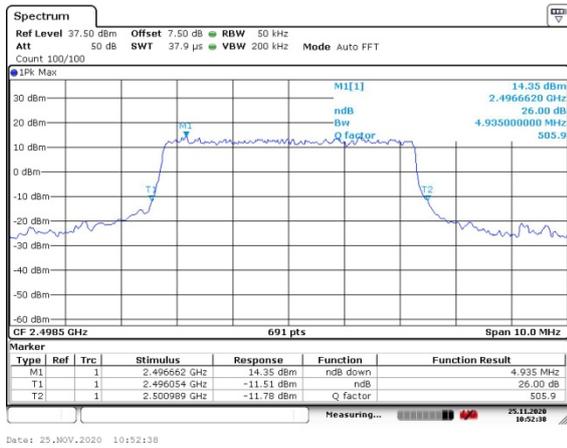


Fig.3

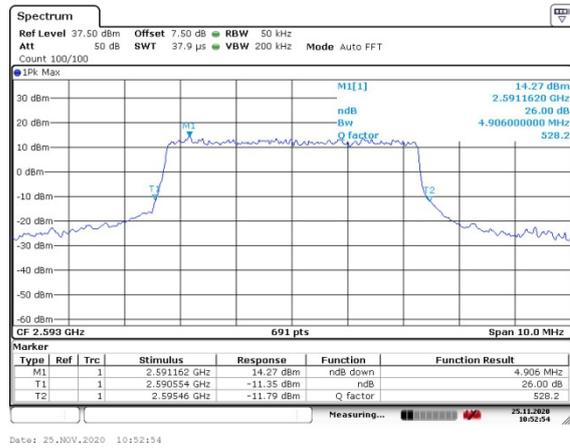


Fig.4

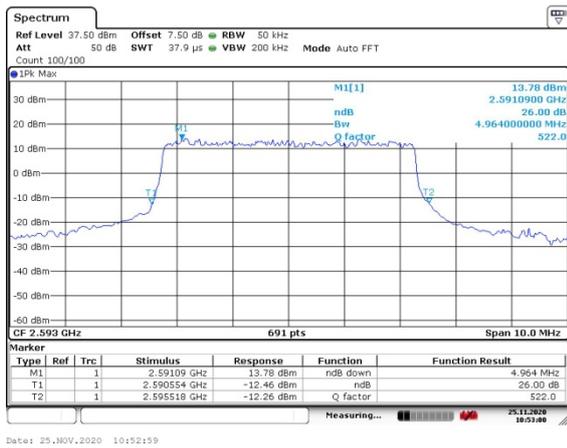


Fig.5

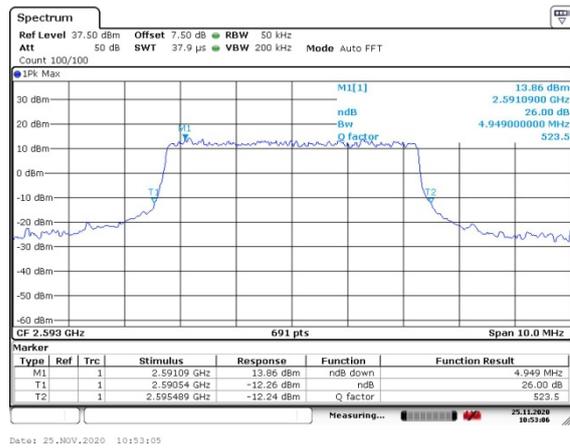


Fig.6