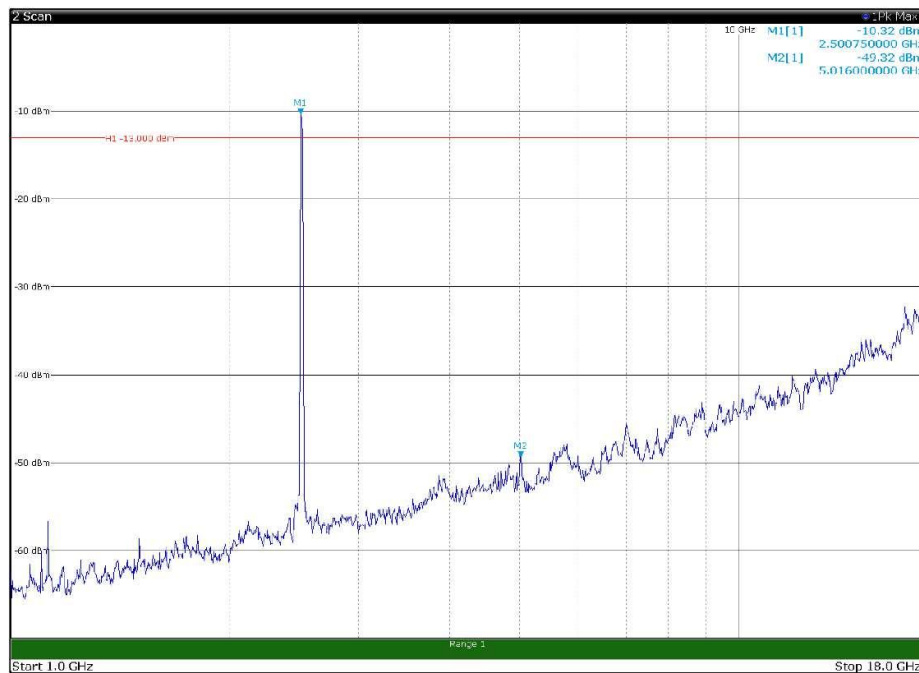
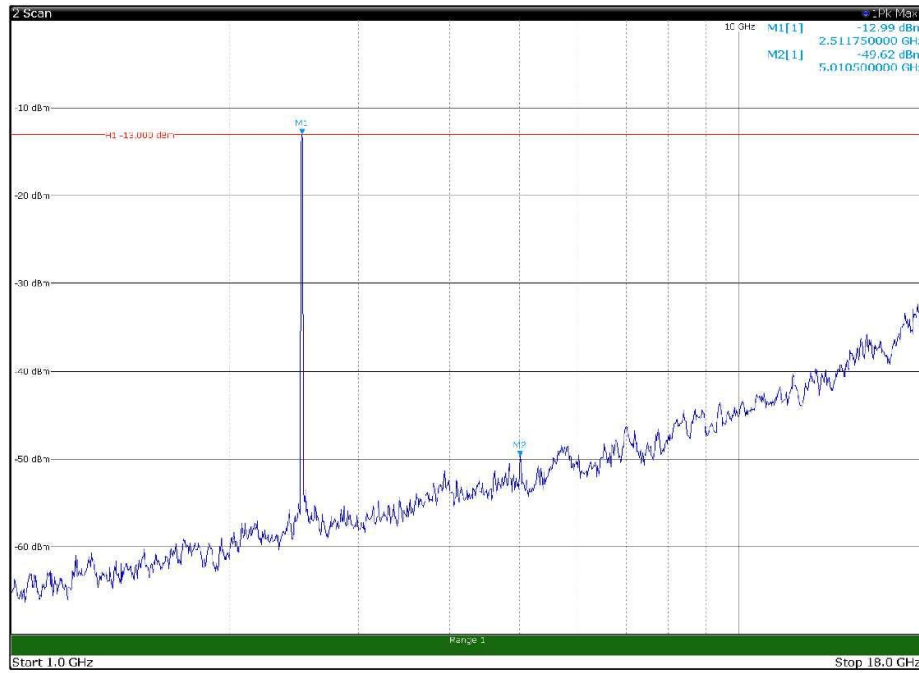
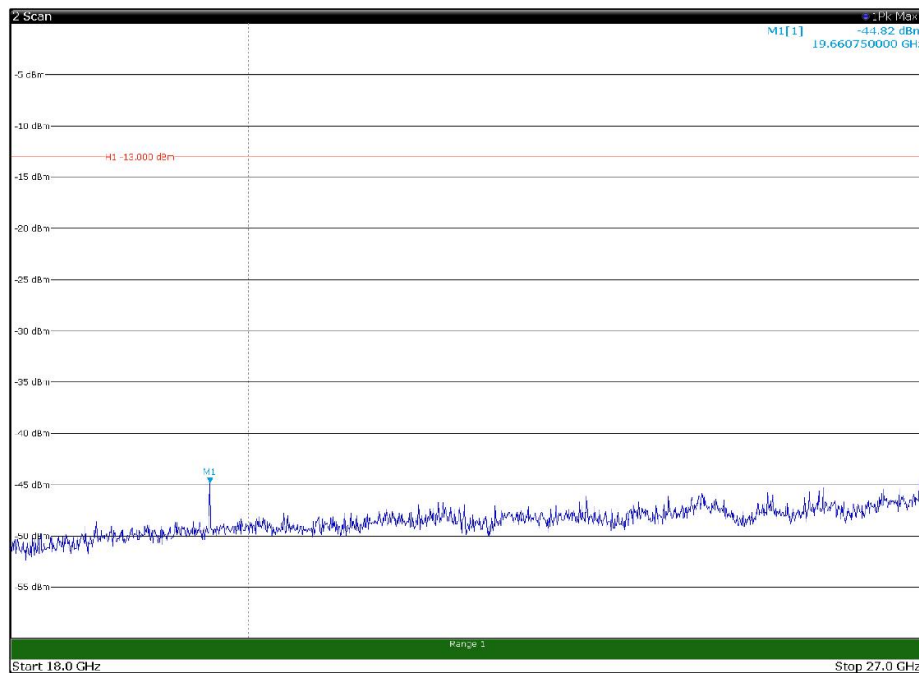
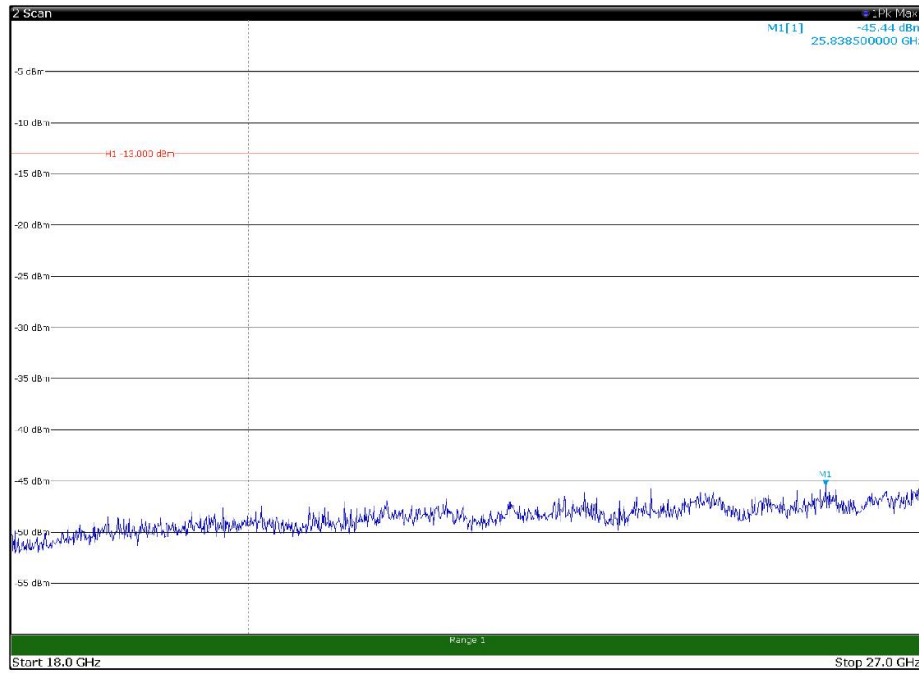
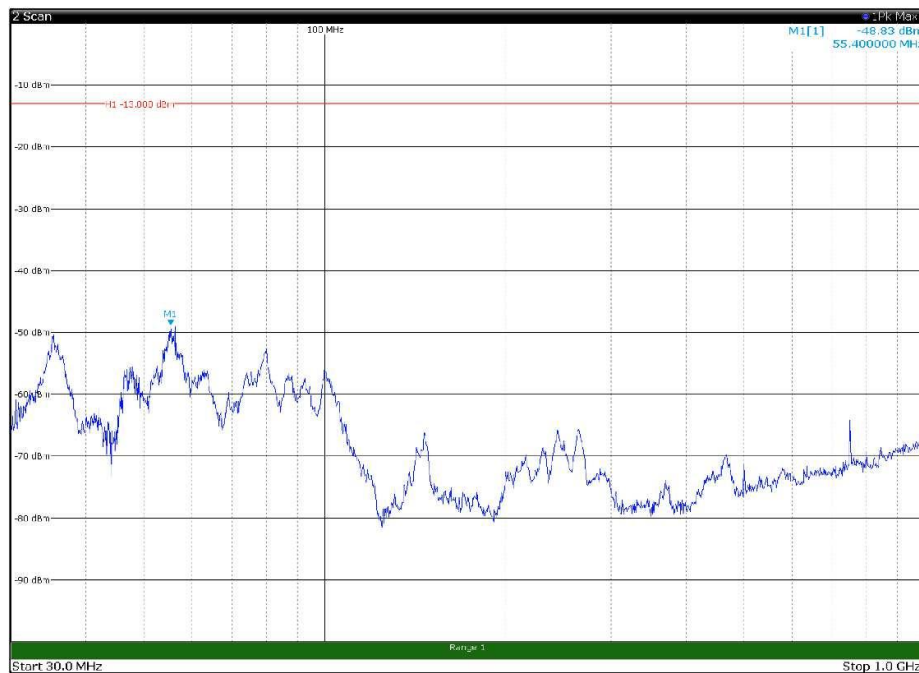
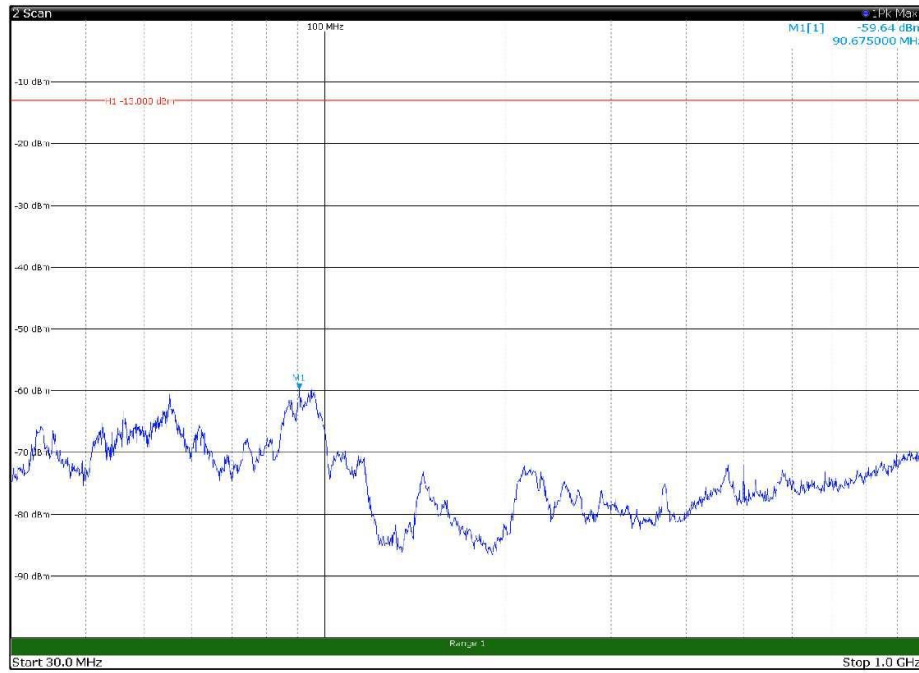
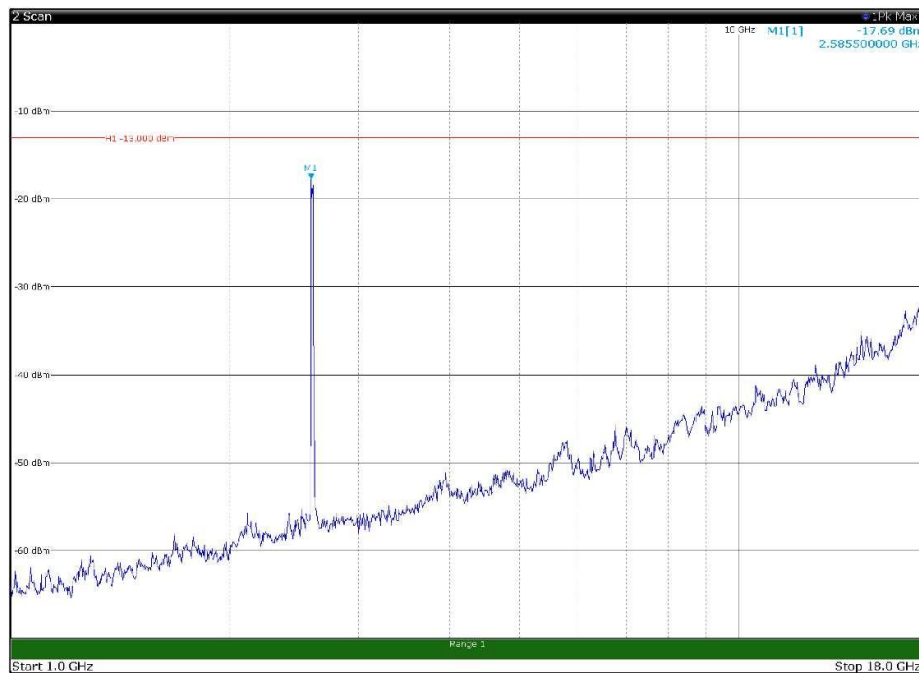
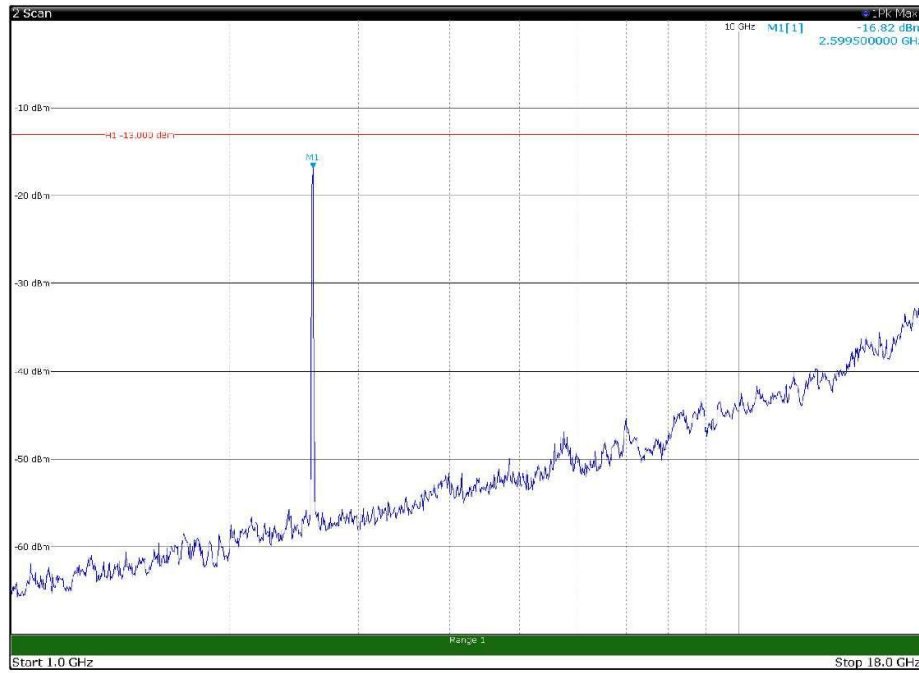
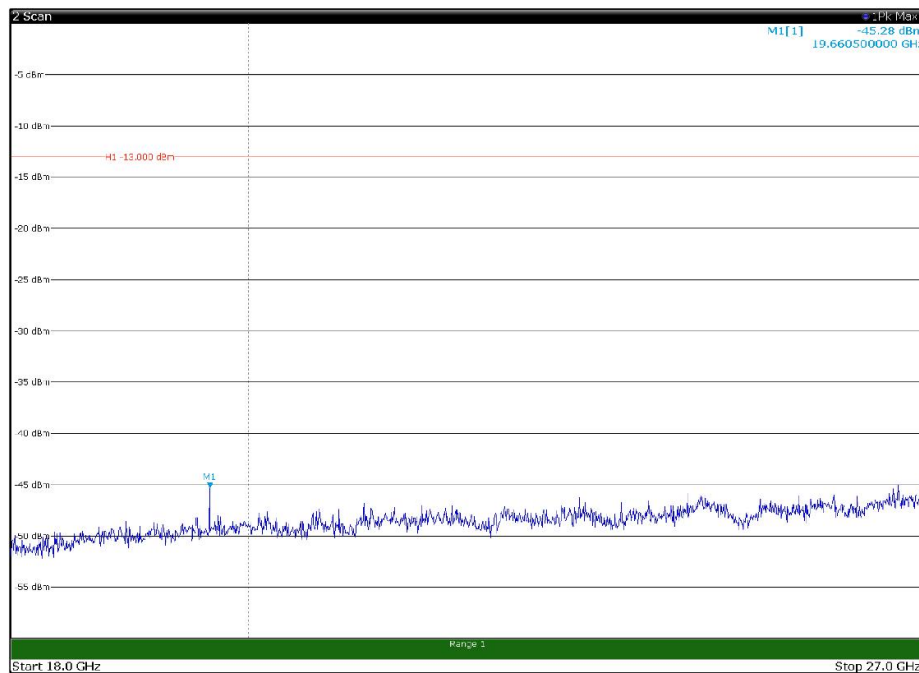
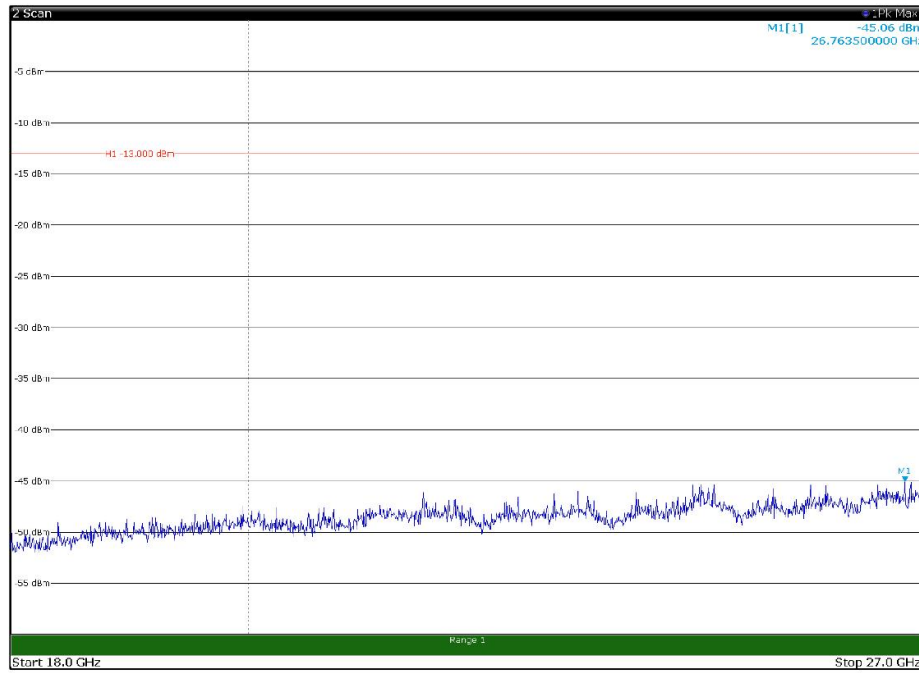


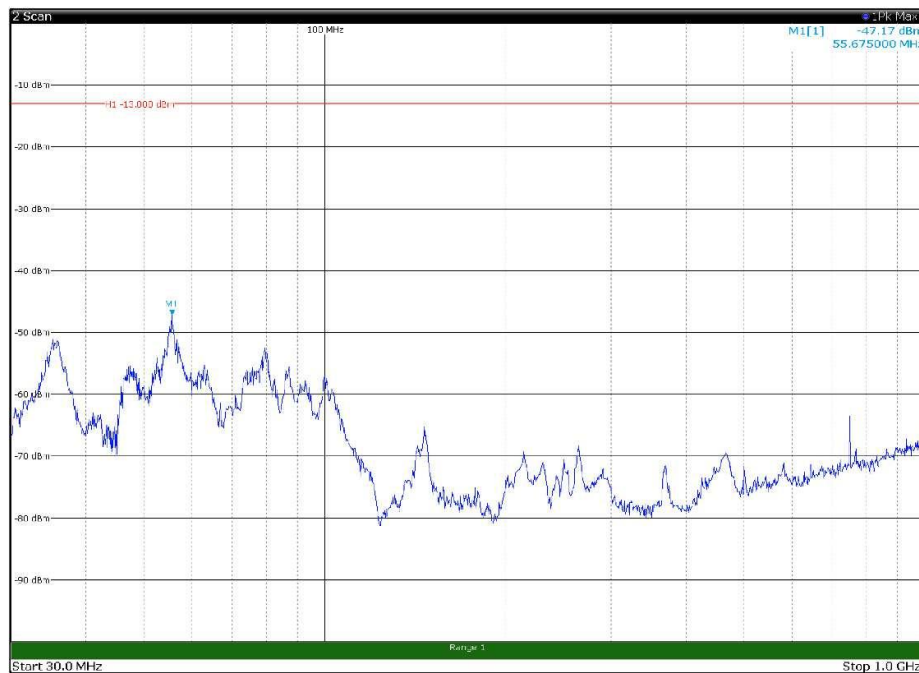
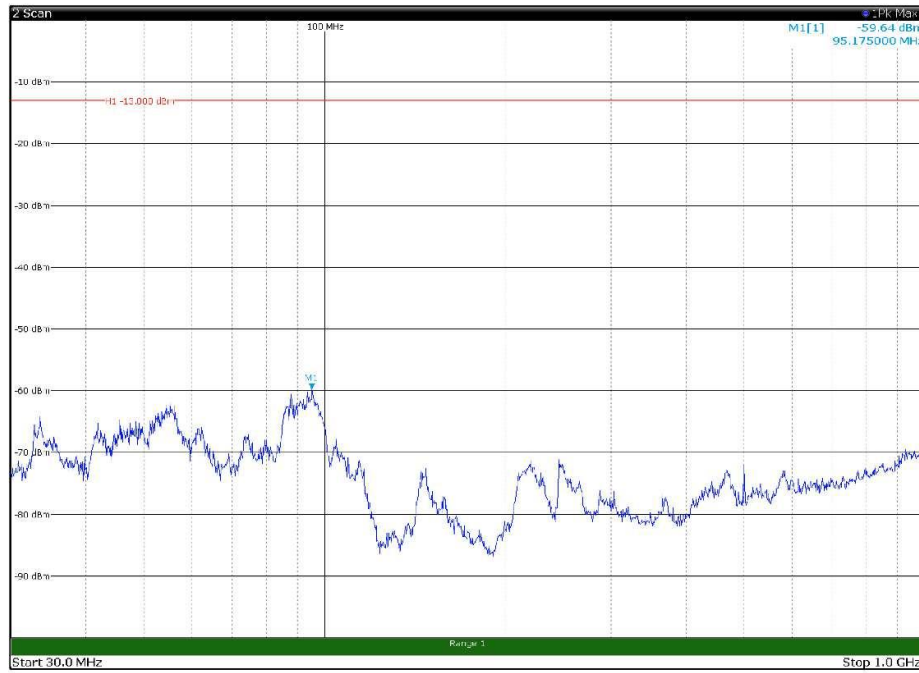


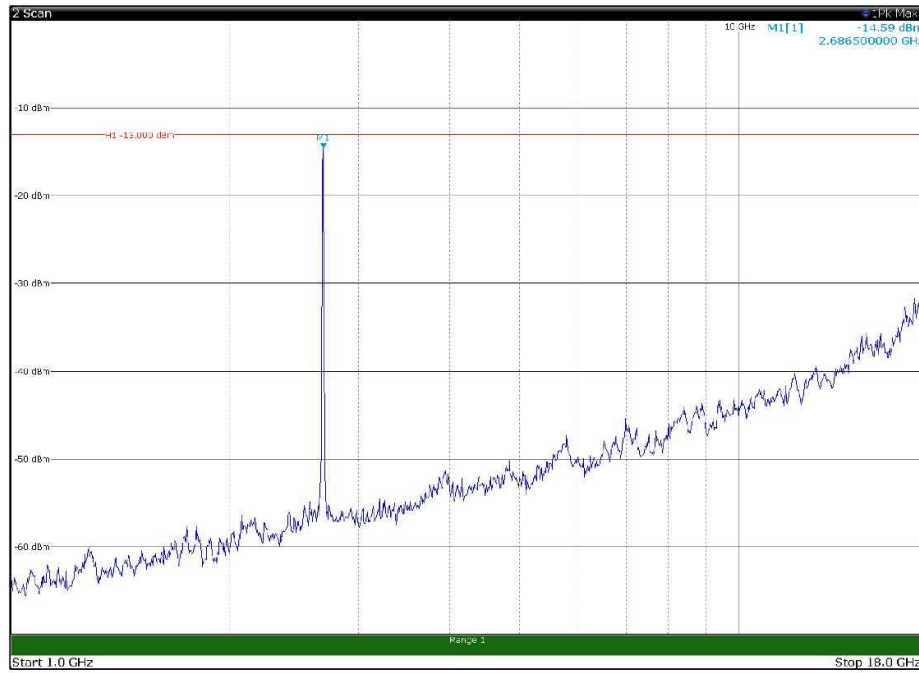




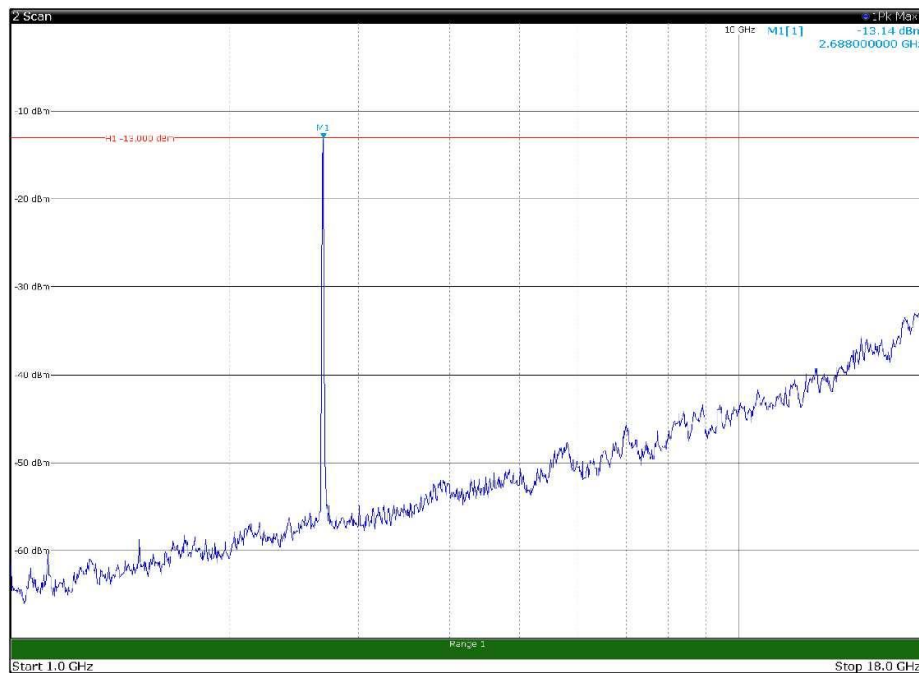




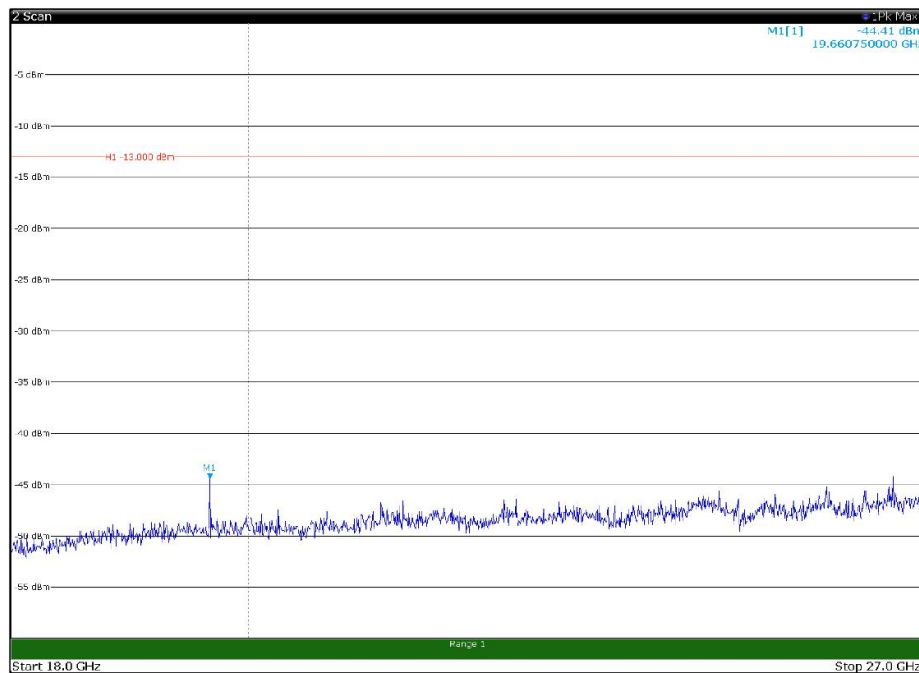
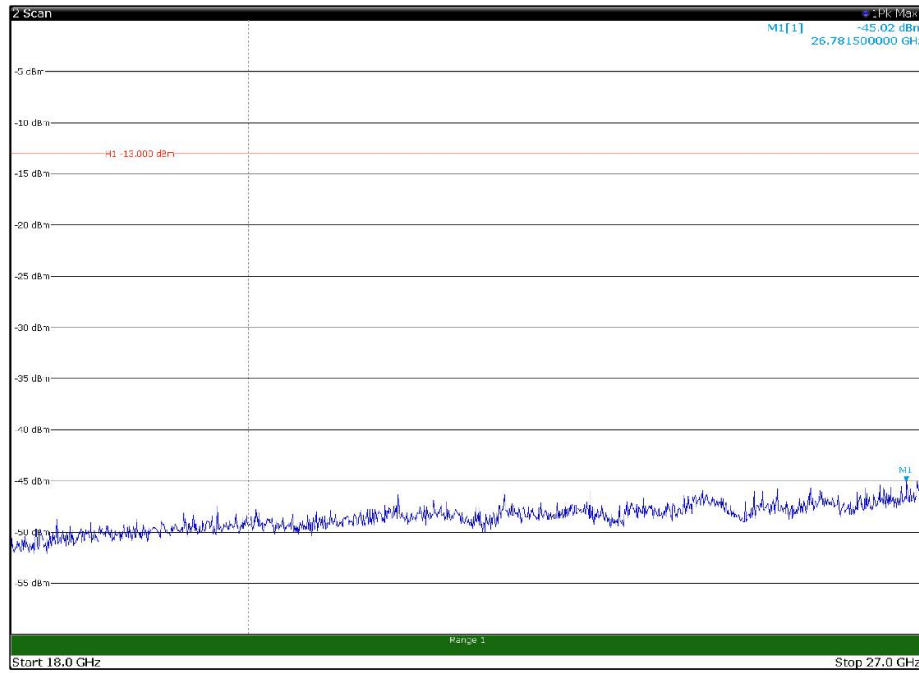




Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical





### Clause 27.54 Frequency stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test date: 10/21/2019 to 12/13/2019

**Test results: Pass**

### Special notes

Test are performed at 85% (40,8Vdc) and 115% (55,2Vdc) of the primary supply voltage and the same result was found.

### Test data

## RF PORT 1

| Temperature = -40°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | 1.272           | Hz  |
| BOTTOM              | LTE 5 MHz  | 16QAM      | 1.258           | Hz  |
| BOTTOM              | LTE 5 MHz  | 64QAM      | -1.069          | Hz  |
| BOTTOM              | LTE 5 MHz  | 256QAM     | 1.286           | Hz  |
| MIDDLE              | LTE 5 MHz  | QPSK       | 503.93          | mHz |
| MIDDLE              | LTE 5 MHz  | 16QAM      | 196.93          | mHz |
| MIDDLE              | LTE 5 MHz  | 64QAM      | -927.86         | mHz |
| MIDDLE              | LTE 5 MHz  | 256QAM     | -1.1302         | Hz  |
| TOP                 | LTE 5 MHz  | QPSK       | 0.757           | mHz |
| TOP                 | LTE 5 MHz  | 16QAM      | 0.597           | mHz |
| TOP                 | LTE 5 MHz  | 64QAM      | -0.313          | mHz |
| TOP                 | LTE 5 MHz  | 256QAM     | 0.034           | mHz |
| BOTTOM              | LTE 10 MHz | QPSK       | -0.622          | mHz |
| BOTTOM              | LTE 10 MHz | 16QAM      | -1.057          | Hz  |
| BOTTOM              | LTE 10 MHz | 64QAM      | -0.827          | mHz |
| BOTTOM              | LTE 10 MHz | 256QAM     | 0.682           | mHz |
| MIDDLE              | LTE 10 MHz | QPSK       | -41.154         | mHz |
| MIDDLE              | LTE 10 MHz | 16QAM      | 202.95          | mHz |
| MIDDLE              | LTE 10 MHz | 64QAM      | 1.494           | Hz  |
| MIDDLE              | LTE 10 MHz | 256QAM     | -591.6          | mHz |
| TOP                 | LTE 10 MHz | QPSK       | -0.441          | mHz |
| TOP                 | LTE 10 MHz | 16QAM      | 0.395           | mHz |
| TOP                 | LTE 10 MHz | 64QAM      | -1.133          | Hz  |
| TOP                 | LTE 10 MHz | 256QAM     | 0.886           | mHz |
| BOTTOM              | LTE 15 MHz | QPSK       | -1.326          | Hz  |
| BOTTOM              | LTE 15 MHz | 16QAM      | 0.326           | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | 1.074           | Hz  |
| BOTTOM              | LTE 15 MHz | 256QAM     | 0.09            | mHz |
| MIDDLE              | LTE 15 MHz | QPSK       | -92.64          | mHz |
| MIDDLE              | LTE 15 MHz | 16QAM      | -712.37         | mHz |
| MIDDLE              | LTE 15 MHz | 64QAM      | -503.18         | mHz |
| MIDDLE              | LTE 15 MHz | 256QAM     | 1.2403          | Hz  |
| TOP                 | LTE 15 MHz | QPSK       | 0.977           | mHz |
| TOP                 | LTE 15 MHz | 16QAM      | -0.304          | mHz |
| TOP                 | LTE 15 MHz | 64QAM      | -0.846          | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | 0.467           | mHz |
| BOTTOM              | LTE 20 MHz | QPSK       | 0.8             | mHz |
| BOTTOM              | LTE 20 MHz | 16QAM      | -0.689          | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | -0.059          | mHz |
| BOTTOM              | LTE 20 MHz | 256QAM     | 0.73            | mHz |
| MIDDLE              | LTE 20 MHz | QPSK       | -590.48         | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | 456.83          | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | 1.3439          | Hz  |
| MIDDLE              | LTE 20 MHz | 256QAM     | 135.89          | mHz |
| TOP                 | LTE 20 MHz | QPSK       | 0.072           | mHz |
| TOP                 | LTE 20 MHz | 16QAM      | 0.231           | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | 1.208           | Hz  |
| TOP                 | LTE 20 MHz | 256QAM     | 0.773           | mHz |

| Temperature = -30°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | -256            | mHz |
| BOTTOM              | LTE 5 MHz  | 16QAM      | -1.428          | Hz  |
| BOTTOM              | LTE 5 MHz  | 64QAM      | 1.216           | Hz  |
| BOTTOM              | LTE 5 MHz  | 256QAM     | 183             | mHz |
| MIDDLE              | LTE 5 MHz  | QPSK       | 475             | mHz |
| MIDDLE              | LTE 5 MHz  | 16QAM      | 126             | mHz |
| MIDDLE              | LTE 5 MHz  | 64QAM      | -944            | mHz |
| MIDDLE              | LTE 5 MHz  | 256QAM     | -1.077          | Hz  |
| TOP                 | LTE 5 MHz  | QPSK       | 531             | mHz |
| TOP                 | LTE 5 MHz  | 16QAM      | -916            | mHz |
| TOP                 | LTE 5 MHz  | 64QAM      | 1.211           | Hz  |
| TOP                 | LTE 5 MHz  | 256QAM     | 1.231           | Hz  |
| BOTTOM              | LTE 10 MHz | QPSK       | 232             | mHz |
| BOTTOM              | LTE 10 MHz | 16QAM      | -1.151          | Hz  |
| BOTTOM              | LTE 10 MHz | 64QAM      | -1.073          | Hz  |
| BOTTOM              | LTE 10 MHz | 256QAM     | 1.129           | Hz  |
| MIDDLE              | LTE 10 MHz | QPSK       | 1.058           | Hz  |
| MIDDLE              | LTE 10 MHz | 16QAM      | -773            | mHz |
| MIDDLE              | LTE 10 MHz | 64QAM      | 804             | mHz |
| MIDDLE              | LTE 10 MHz | 256QAM     | -577            | mHz |
| TOP                 | LTE 10 MHz | QPSK       | 1.359           | Hz  |
| TOP                 | LTE 10 MHz | 16QAM      | 699             | mHz |
| TOP                 | LTE 10 MHz | 64QAM      | -1.422          | Hz  |
| TOP                 | LTE 10 MHz | 256QAM     | -1.189          | Hz  |
| BOTTOM              | LTE 15 MHz | QPSK       | -1.174          | Hz  |
| BOTTOM              | LTE 15 MHz | 16QAM      | 172             | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | -1.487          | Hz  |
| BOTTOM              | LTE 15 MHz | 256QAM     | 1.048           | Hz  |
| MIDDLE              | LTE 15 MHz | QPSK       | 780             | mHz |
| MIDDLE              | LTE 15 MHz | 16QAM      | -852            | mHz |
| MIDDLE              | LTE 15 MHz | 64QAM      | -1.46           | Hz  |
| MIDDLE              | LTE 15 MHz | 256QAM     | 669             | mHz |
| TOP                 | LTE 15 MHz | QPSK       | -1.062          | Hz  |
| TOP                 | LTE 15 MHz | 16QAM      | -764            | mHz |
| TOP                 | LTE 15 MHz | 64QAM      | -903            | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | -731            | mHz |
| BOTTOM              | LTE 20 MHz | QPSK       | 1.314           | Hz  |
| BOTTOM              | LTE 20 MHz | 16QAM      | 250             | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | 267             | mHz |
| BOTTOM              | LTE 20 MHz | 256QAM     | 187             | mHz |
| MIDDLE              | LTE 20 MHz | QPSK       | 579             | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | -209            | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | 1.451           | Hz  |
| MIDDLE              | LTE 20 MHz | 256QAM     | 1.444           | Hz  |
| TOP                 | LTE 20 MHz | QPSK       | 296             | mHz |
| TOP                 | LTE 20 MHz | 16QAM      | 770             | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | 998             | mHz |
| TOP                 | LTE 20 MHz | 256QAM     | -728            | mHz |

| Temperature = -20°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | -1.492          | Hz  |
| BOTTOM              | LTE 5 MHz  | 16QAM      | -0.468          | mHz |
| BOTTOM              | LTE 5 MHz  | 64QAM      | -1.472          | Hz  |
| BOTTOM              | LTE 5 MHz  | 256QAM     | 1.307           | Hz  |
| MIDDLE              | LTE 5 MHz  | QPSK       | 0.132           | mHz |
| MIDDLE              | LTE 5 MHz  | 16QAM      | -0.811          | mHz |
| MIDDLE              | LTE 5 MHz  | 64QAM      | 0.513           | mHz |
| MIDDLE              | LTE 5 MHz  | 256QAM     | 0.591           | mHz |
| TOP                 | LTE 5 MHz  | QPSK       | -0.939          | mHz |
| TOP                 | LTE 5 MHz  | 16QAM      | 1.323           | Hz  |
| TOP                 | LTE 5 MHz  | 64QAM      | 1.472           | Hz  |
| TOP                 | LTE 5 MHz  | 256QAM     | -0.301          | mHz |
| BOTTOM              | LTE 10 MHz | QPSK       | 0.189           | mHz |
| BOTTOM              | LTE 10 MHz | 16QAM      | 1.451           | Hz  |
| BOTTOM              | LTE 10 MHz | 64QAM      | 1.352           | Hz  |
| BOTTOM              | LTE 10 MHz | 256QAM     | -0.786          | mHz |
| MIDDLE              | LTE 10 MHz | QPSK       | 1.363           | Hz  |
| MIDDLE              | LTE 10 MHz | 16QAM      | 1.437           | Hz  |
| MIDDLE              | LTE 10 MHz | 64QAM      | -0.159          | mHz |
| MIDDLE              | LTE 10 MHz | 256QAM     | -0.159          | mHz |
| TOP                 | LTE 10 MHz | QPSK       | -0.977          | mHz |
| TOP                 | LTE 10 MHz | 16QAM      | 1.09            | Hz  |
| TOP                 | LTE 10 MHz | 64QAM      | 0.438           | mHz |
| TOP                 | LTE 10 MHz | 256QAM     | -1.325          | Hz  |
| BOTTOM              | LTE 15 MHz | QPSK       | 0.742           | mHz |
| BOTTOM              | LTE 15 MHz | 16QAM      | 0.149           | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | -1.005          | Hz  |
| BOTTOM              | LTE 15 MHz | 256QAM     | -0.894          | mHz |
| MIDDLE              | LTE 15 MHz | QPSK       | 1.209           | Hz  |
| MIDDLE              | LTE 15 MHz | 16QAM      | 1.403           | Hz  |
| MIDDLE              | LTE 15 MHz | 64QAM      | 0.069           | mHz |
| MIDDLE              | LTE 15 MHz | 256QAM     | 1.072           | Hz  |
| TOP                 | LTE 15 MHz | QPSK       | 1.434           | Hz  |
| TOP                 | LTE 15 MHz | 16QAM      | -1.104          | Hz  |
| TOP                 | LTE 15 MHz | 64QAM      | -0.791          | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | -1.29           | Hz  |
| BOTTOM              | LTE 20 MHz | QPSK       | 0.013           | mHz |
| BOTTOM              | LTE 20 MHz | 16QAM      | 0.626           | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | 0.062           | mHz |
| BOTTOM              | LTE 20 MHz | 256QAM     | 1.33            | Hz  |
| MIDDLE              | LTE 20 MHz | QPSK       | -0.056          | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | -0.192          | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | 0.633           | mHz |
| MIDDLE              | LTE 20 MHz | 256QAM     | -0.503          | mHz |
| TOP                 | LTE 20 MHz | QPSK       | 1.349           | Hz  |
| TOP                 | LTE 20 MHz | 16QAM      | -0.849          | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | -0.963          | mHz |
| TOP                 | LTE 20 MHz | 256QAM     | -1.296          | Hz  |

| Temperature = -10°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | 0.352           | mHz |
| BOTTOM              | LTE 5 MHz  | 16QAM      | -1.077          | Hz  |
| BOTTOM              | LTE 5 MHz  | 64QAM      | 0.352           | mHz |
| BOTTOM              | LTE 5 MHz  | 256QAM     | -1.404          | Hz  |
| MIDDLE              | LTE 5 MHz  | QPSK       | -1.48           | Hz  |
| MIDDLE              | LTE 5 MHz  | 16QAM      | -0.396          | mHz |
| MIDDLE              | LTE 5 MHz  | 64QAM      | -1.463          | Hz  |
| MIDDLE              | LTE 5 MHz  | 256QAM     | -0.08           | mHz |
| TOP                 | LTE 5 MHz  | QPSK       | -1.495          | Hz  |
| TOP                 | LTE 5 MHz  | 16QAM      | 0.164           | mHz |
| TOP                 | LTE 5 MHz  | 64QAM      | -1.078          | Hz  |
| TOP                 | LTE 5 MHz  | 256QAM     | -0.614          | mHz |
| BOTTOM              | LTE 10 MHz | QPSK       | 0.575           | mHz |
| BOTTOM              | LTE 10 MHz | 16QAM      | 1.43            | Hz  |
| BOTTOM              | LTE 10 MHz | 64QAM      | -0.033          | mHz |
| BOTTOM              | LTE 10 MHz | 256QAM     | 0.25            | mHz |
| MIDDLE              | LTE 10 MHz | QPSK       | -0.889          | mHz |
| MIDDLE              | LTE 10 MHz | 16QAM      | -0.07           | mHz |
| MIDDLE              | LTE 10 MHz | 64QAM      | -1.475          | Hz  |
| MIDDLE              | LTE 10 MHz | 256QAM     | -0.328          | mHz |
| TOP                 | LTE 10 MHz | QPSK       | -1.424          | Hz  |
| TOP                 | LTE 10 MHz | 16QAM      | -0.213          | mHz |
| TOP                 | LTE 10 MHz | 64QAM      | 1.042           | Hz  |
| TOP                 | LTE 10 MHz | 256QAM     | -0.281          | mHz |
| BOTTOM              | LTE 15 MHz | QPSK       | 0.414           | mHz |
| BOTTOM              | LTE 15 MHz | 16QAM      | -0.989          | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | 1.497           | Hz  |
| BOTTOM              | LTE 15 MHz | 256QAM     | -0.404          | mHz |
| MIDDLE              | LTE 15 MHz | QPSK       | -0.416          | mHz |
| MIDDLE              | LTE 15 MHz | 16QAM      | -1.113          | Hz  |
| MIDDLE              | LTE 15 MHz | 64QAM      | -1.267          | Hz  |
| MIDDLE              | LTE 15 MHz | 256QAM     | -1.021          | Hz  |
| TOP                 | LTE 15 MHz | QPSK       | -0.335          | mHz |
| TOP                 | LTE 15 MHz | 16QAM      | -1.365          | Hz  |
| TOP                 | LTE 15 MHz | 64QAM      | -0.343          | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | -0.018          | mHz |
| BOTTOM              | LTE 20 MHz | QPSK       | 0.589           | mHz |
| BOTTOM              | LTE 20 MHz | 16QAM      | 0.207           | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | -1.193          | Hz  |
| BOTTOM              | LTE 20 MHz | 256QAM     | 0.351           | mHz |
| MIDDLE              | LTE 20 MHz | QPSK       | 0.839           | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | -0.905          | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | -0.623          | mHz |
| MIDDLE              | LTE 20 MHz | 256QAM     | -1.213          | Hz  |
| TOP                 | LTE 20 MHz | QPSK       | 0.383           | mHz |
| TOP                 | LTE 20 MHz | 16QAM      | -0.826          | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | 0.314           | mHz |
| TOP                 | LTE 20 MHz | 256QAM     | 0.975           | mHz |

| Temperature = 0°C |            |            |                 |     |
|-------------------|------------|------------|-----------------|-----|
| Channel           | Signal     | Modulation | Frequency Error |     |
| BOTTOM            | LTE 5 MHz  | QPSK       | -1.118          | Hz  |
| BOTTOM            | LTE 5 MHz  | 16QAM      | -0.77           | mHz |
| BOTTOM            | LTE 5 MHz  | 64QAM      | -1.451          | Hz  |
| BOTTOM            | LTE 5 MHz  | 256QAM     | -0.82           | mHz |
| MIDDLE            | LTE 5 MHz  | QPSK       | 192.59          | mHz |
| MIDDLE            | LTE 5 MHz  | 16QAM      | 766.12          | mHz |
| MIDDLE            | LTE 5 MHz  | 64QAM      | -637.62         | mHz |
| MIDDLE            | LTE 5 MHz  | 256QAM     | 1.8696          | Hz  |
| TOP               | LTE 5 MHz  | QPSK       | -0.985          | mHz |
| TOP               | LTE 5 MHz  | 16QAM      | 1.075           | Hz  |
| TOP               | LTE 5 MHz  | 64QAM      | -0.796          | mHz |
| TOP               | LTE 5 MHz  | 256QAM     | 0.97            | mHz |
| BOTTOM            | LTE 10 MHz | QPSK       | -0.462          | mHz |
| BOTTOM            | LTE 10 MHz | 16QAM      | -0.212          | mHz |
| BOTTOM            | LTE 10 MHz | 64QAM      | -1.401          | Hz  |
| BOTTOM            | LTE 10 MHz | 256QAM     | -0.664          | mHz |
| MIDDLE            | LTE 10 MHz | QPSK       | 43.845          | mHz |
| MIDDLE            | LTE 10 MHz | 16QAM      | 970.84          | mHz |
| MIDDLE            | LTE 10 MHz | 64QAM      | -1.1077         | Hz  |
| MIDDLE            | LTE 10 MHz | 256QAM     | -136.5          | mHz |
| TOP               | LTE 10 MHz | QPSK       | -0.61           | mHz |
| TOP               | LTE 10 MHz | 16QAM      | 1.454           | Hz  |
| TOP               | LTE 10 MHz | 64QAM      | -1.131          | Hz  |
| TOP               | LTE 10 MHz | 256QAM     | 0.792           | mHz |
| BOTTOM            | LTE 15 MHz | QPSK       | -1.408          | Hz  |
| BOTTOM            | LTE 15 MHz | 16QAM      | -0.196          | mHz |
| BOTTOM            | LTE 15 MHz | 64QAM      | 0.482           | mHz |
| BOTTOM            | LTE 15 MHz | 256QAM     | 0.908           | mHz |
| MIDDLE            | LTE 15 MHz | QPSK       | -1.0451         | Hz  |
| MIDDLE            | LTE 15 MHz | 16QAM      | -148.44         | mHz |
| MIDDLE            | LTE 15 MHz | 64QAM      | 352.13          | mHz |
| MIDDLE            | LTE 15 MHz | 256QAM     | -354.77         | mHz |
| TOP               | LTE 15 MHz | QPSK       | 0.871           | mHz |
| TOP               | LTE 15 MHz | 16QAM      | 0.56            | mHz |
| TOP               | LTE 15 MHz | 64QAM      | 1.288           | Hz  |
| TOP               | LTE 15 MHz | 256QAM     | -1.226          | Hz  |
| BOTTOM            | LTE 20 MHz | QPSK       | -0.802          | mHz |
| BOTTOM            | LTE 20 MHz | 16QAM      | -0.882          | mHz |
| BOTTOM            | LTE 20 MHz | 64QAM      | 0.652           | mHz |
| BOTTOM            | LTE 20 MHz | 256QAM     | -0.639          | mHz |
| MIDDLE            | LTE 20 MHz | QPSK       | 1.2309          | Hz  |
| MIDDLE            | LTE 20 MHz | 16QAM      | 628.48          | mHz |
| MIDDLE            | LTE 20 MHz | 64QAM      | 55.326          | mHz |
| MIDDLE            | LTE 20 MHz | 256QAM     | 326.36          | mHz |
| TOP               | LTE 20 MHz | QPSK       | 0.916           | mHz |
| TOP               | LTE 20 MHz | 16QAM      | -1.138          | Hz  |
| TOP               | LTE 20 MHz | 64QAM      | -0.565          | mHz |
| TOP               | LTE 20 MHz | 256QAM     | -0.228          | mHz |

| Temperature = 10°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 1.076           | Hz  |
| BOTTOM             | LTE 5 MHz  | 16QAM      | 958             | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | -941            | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | -510            | mHz |
| MIDDLE             | LTE 5 MHz  | QPSK       | 636             | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 64              | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -1.155          | Hz  |
| MIDDLE             | LTE 5 MHz  | 256QAM     | 219             | mHz |
| TOP                | LTE 5 MHz  | QPSK       | -745            | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 948             | mHz |
| TOP                | LTE 5 MHz  | 64QAM      | -481            | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | 607             | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | 1.104           | Hz  |
| BOTTOM             | LTE 10 MHz | 16QAM      | 564             | mHz |
| BOTTOM             | LTE 10 MHz | 64QAM      | -1.135          | Hz  |
| BOTTOM             | LTE 10 MHz | 256QAM     | 287             | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | -507            | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | 152             | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -845            | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | 1.218           | Hz  |
| TOP                | LTE 10 MHz | QPSK       | 382             | mHz |
| TOP                | LTE 10 MHz | 16QAM      | 1.039           | Hz  |
| TOP                | LTE 10 MHz | 64QAM      | 1.068           | Hz  |
| TOP                | LTE 10 MHz | 256QAM     | -1.326          | Hz  |
| BOTTOM             | LTE 15 MHz | QPSK       | -955            | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | -749            | mHz |
| BOTTOM             | LTE 15 MHz | 64QAM      | 281             | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | -980            | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | -1.456          | Hz  |
| MIDDLE             | LTE 15 MHz | 16QAM      | 638             | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | 1.193           | Hz  |
| MIDDLE             | LTE 15 MHz | 256QAM     | 378             | mHz |
| TOP                | LTE 15 MHz | QPSK       | -1.172          | Hz  |
| TOP                | LTE 15 MHz | 16QAM      | 516             | mHz |
| TOP                | LTE 15 MHz | 64QAM      | 704             | mHz |
| TOP                | LTE 15 MHz | 256QAM     | -650            | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | 182             | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | -911            | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | 1.44            | Hz  |
| BOTTOM             | LTE 20 MHz | 256QAM     | -1.431          | Hz  |
| MIDDLE             | LTE 20 MHz | QPSK       | -1.027          | Hz  |
| MIDDLE             | LTE 20 MHz | 16QAM      | -1.47           | Hz  |
| MIDDLE             | LTE 20 MHz | 64QAM      | -781            | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | 928             | mHz |
| TOP                | LTE 20 MHz | QPSK       | -893            | mHz |
| TOP                | LTE 20 MHz | 16QAM      | 446             | mHz |
| TOP                | LTE 20 MHz | 64QAM      | 1.082           | Hz  |
| TOP                | LTE 20 MHz | 256QAM     | 160             | mHz |

| Temperature = 20°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 1.9066          | Hz  |
| BOTTOM             | LTE 5 MHz  | 16QAM      | 630.03          | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | -429.94         | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 660.93          | mHz |
| MIDDLE             | LTE 5 MHz  | QPSK       | 456.47          | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 706.5           | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | 655.16          | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | -342.62         | mHz |
| TOP                | LTE 5 MHz  | QPSK       | 406.02          | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 845.65          | mHz |
| TOP                | LTE 5 MHz  | 64QAM      | -64.576         | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | 47.486          | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | 308.86          | mHz |
| BOTTOM             | LTE 10 MHz | 16QAM      | -921.08         | mHz |
| BOTTOM             | LTE 10 MHz | 64QAM      | 879.34          | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | 347.46          | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | 775.03          | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | 597.09          | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -120.86         | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | -26.548         | mHz |
| TOP                | LTE 10 MHz | QPSK       | -273.93         | mHz |
| TOP                | LTE 10 MHz | 16QAM      | -30.463         | mHz |
| TOP                | LTE 10 MHz | 64QAM      | 418.13          | mHz |
| TOP                | LTE 10 MHz | 256QAM     | 96.765          | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | -494.84         | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | -1.2198         | Hz  |
| BOTTOM             | LTE 15 MHz | 64QAM      | -794.88         | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | 47.864          | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | -440.72         | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | -490.88         | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | -1.0891         | Hz  |
| MIDDLE             | LTE 15 MHz | 256QAM     | 151.98          | mHz |
| TOP                | LTE 15 MHz | QPSK       | 589.17          | mHz |
| TOP                | LTE 15 MHz | 16QAM      | 284.62          | mHz |
| TOP                | LTE 15 MHz | 64QAM      | 1.0345          | Hz  |
| TOP                | LTE 15 MHz | 256QAM     | 377.43          | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | -2.5794         | Hz  |
| BOTTOM             | LTE 20 MHz | 16QAM      | -1.5469         | Hz  |
| BOTTOM             | LTE 20 MHz | 64QAM      | 944.96          | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | -361.43         | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | -323.99         | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | -2.9207         | Hz  |
| MIDDLE             | LTE 20 MHz | 64QAM      | 1.6105          | Hz  |
| MIDDLE             | LTE 20 MHz | 256QAM     | -223.88         | mHz |
| TOP                | LTE 20 MHz | QPSK       | 1.2981          | Hz  |
| TOP                | LTE 20 MHz | 16QAM      | -971.37         | mHz |
| TOP                | LTE 20 MHz | 64QAM      | -607.44         | mHz |
| TOP                | LTE 20 MHz | 256QAM     | 877.81          | mHz |



| Temperature = 30°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | -1.272          | Hz  |
| BOTTOM             | LTE 5 MHz  | 16QAM      | -458            | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | 955             | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | -1.273          | Hz  |
| MIDDLE             | LTE 5 MHz  | QPSK       | 492.86          | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 10.3            | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -772.64         | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | 137.08          | mHz |
| TOP                | LTE 5 MHz  | QPSK       | 375             | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 1.075           | Hz  |
| TOP                | LTE 5 MHz  | 64QAM      | 1.28            | Hz  |
| TOP                | LTE 5 MHz  | 256QAM     | 1.253           | Hz  |
| BOTTOM             | LTE 10 MHz | QPSK       | 794             | mHz |
| BOTTOM             | LTE 10 MHz | 16QAM      | -1.266          | Hz  |
| BOTTOM             | LTE 10 MHz | 64QAM      | 1.355           | Hz  |
| BOTTOM             | LTE 10 MHz | 256QAM     | -169            | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | -467.18         | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | 759.31          | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -310.96         | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | -143.02         | mHz |
| TOP                | LTE 10 MHz | QPSK       | 1.091           | Hz  |
| TOP                | LTE 10 MHz | 16QAM      | 361             | mHz |
| TOP                | LTE 10 MHz | 64QAM      | 114             | mHz |
| TOP                | LTE 10 MHz | 256QAM     | 654             | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | -970            | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | -1.305          | Hz  |
| BOTTOM             | LTE 15 MHz | 64QAM      | 1.046           | Hz  |
| BOTTOM             | LTE 15 MHz | 256QAM     | 1.261           | Hz  |
| MIDDLE             | LTE 15 MHz | QPSK       | 1.3312          | Hz  |
| MIDDLE             | LTE 15 MHz | 16QAM      | 1.3183          | Hz  |
| MIDDLE             | LTE 15 MHz | 64QAM      | -166.28         | mHz |
| MIDDLE             | LTE 15 MHz | 256QAM     | 669.52          | mHz |
| TOP                | LTE 15 MHz | QPSK       | 1.13            | Hz  |
| TOP                | LTE 15 MHz | 16QAM      | -229            | mHz |
| TOP                | LTE 15 MHz | 64QAM      | 510             | mHz |
| TOP                | LTE 15 MHz | 256QAM     | -910            | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | -772            | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | -35             | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | -143            | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | 1.009           | Hz  |
| MIDDLE             | LTE 20 MHz | QPSK       | 801.04          | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | 1.326           | Hz  |
| MIDDLE             | LTE 20 MHz | 64QAM      | -409.42         | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | -986.07         | mHz |
| TOP                | LTE 20 MHz | QPSK       | -753            | mHz |
| TOP                | LTE 20 MHz | 16QAM      | -1.294          | Hz  |
| TOP                | LTE 20 MHz | 64QAM      | -562            | mHz |
| TOP                | LTE 20 MHz | 256QAM     | 1.001           | Hz  |

| Temperature = 40°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 114.06          | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | -366.8          | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | 463.08          | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 563.23          | mHz |
| MIDDLE             | LTE 5 MHz  | QPSK       | -737.83         | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 653.63          | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -321.39         | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | -677.07         | mHz |
| TOP                | LTE 5 MHz  | QPSK       | 817.73          | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 333.73          | mHz |
| TOP                | LTE 5 MHz  | 64QAM      | -1.4221         | Hz  |
| TOP                | LTE 5 MHz  | 256QAM     | -633.45         | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | -1.409          | Hz  |
| BOTTOM             | LTE 10 MHz | 16QAM      | -513.58         | mHz |
| BOTTOM             | LTE 10 MHz | 64QAM      | 1.0845          | Hz  |
| BOTTOM             | LTE 10 MHz | 256QAM     | 1.5744          | Hz  |
| MIDDLE             | LTE 10 MHz | QPSK       | -612.62         | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | -1.0442         | Hz  |
| MIDDLE             | LTE 10 MHz | 64QAM      | -283.46         | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | 141.4           | mHz |
| TOP                | LTE 10 MHz | QPSK       | -246.92         | mHz |
| TOP                | LTE 10 MHz | 16QAM      | 911.04          | mHz |
| TOP                | LTE 10 MHz | 64QAM      | -1.053          | Hz  |
| TOP                | LTE 10 MHz | 256QAM     | -752.4          | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | -97.021         | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | 213.07          | mHz |
| BOTTOM             | LTE 15 MHz | 64QAM      | -989.44         | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | 1.4356          | Hz  |
| MIDDLE             | LTE 15 MHz | QPSK       | 687.65          | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | -1.2391         | Hz  |
| MIDDLE             | LTE 15 MHz | 64QAM      | 411.83          | mHz |
| MIDDLE             | LTE 15 MHz | 256QAM     | -471.94         | mHz |
| TOP                | LTE 15 MHz | QPSK       | 155.42          | mHz |
| TOP                | LTE 15 MHz | 16QAM      | 768.31          | mHz |
| TOP                | LTE 15 MHz | 64QAM      | 633.37          | mHz |
| TOP                | LTE 15 MHz | 256QAM     | -1.664          | Hz  |
| BOTTOM             | LTE 20 MHz | QPSK       | -830.29         | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | 507.74          | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | -381.05         | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | 1.4169          | Hz  |
| MIDDLE             | LTE 20 MHz | QPSK       | -139.34         | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | 718.81          | mHz |
| MIDDLE             | LTE 20 MHz | 64QAM      | -374.32         | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | 649.24          | mHz |
| TOP                | LTE 20 MHz | QPSK       | 645.51          | mHz |
| TOP                | LTE 20 MHz | 16QAM      | 1.6323          | Hz  |
| TOP                | LTE 20 MHz | 64QAM      | -1.3229         | Hz  |
| TOP                | LTE 20 MHz | 256QAM     | 771.06          | mHz |

| Temperature = 50°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 720             | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | -901            | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | -472            | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | -1.008          | Hz  |
| MIDDLE             | LTE 5 MHz  | QPSK       | -437            | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 1.119           | Hz  |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -77             | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | -626            | mHz |
| TOP                | LTE 5 MHz  | QPSK       | 793             | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | -880            | mHz |
| TOP                | LTE 5 MHz  | 64QAM      | 819             | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | -268            | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | 1.151           | Hz  |
| BOTTOM             | LTE 10 MHz | 16QAM      | 1.04            | Hz  |
| BOTTOM             | LTE 10 MHz | 64QAM      | -894            | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | 160             | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | 81              | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | -849            | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -523            | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | 1.393           | Hz  |
| TOP                | LTE 10 MHz | QPSK       | -293            | mHz |
| TOP                | LTE 10 MHz | 16QAM      | -984            | mHz |
| TOP                | LTE 10 MHz | 64QAM      | -803            | mHz |
| TOP                | LTE 10 MHz | 256QAM     | -1.481          | Hz  |
| BOTTOM             | LTE 15 MHz | QPSK       | 480             | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | 1.192           | Hz  |
| BOTTOM             | LTE 15 MHz | 64QAM      | -896            | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | 398             | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | 26              | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | -66             | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | 1.268           | Hz  |
| MIDDLE             | LTE 15 MHz | 256QAM     | 1.079           | Hz  |
| TOP                | LTE 15 MHz | QPSK       | -467            | mHz |
| TOP                | LTE 15 MHz | 16QAM      | 445             | mHz |
| TOP                | LTE 15 MHz | 64QAM      | -530            | mHz |
| TOP                | LTE 15 MHz | 256QAM     | 398             | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | -626            | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | 1.028           | Hz  |
| BOTTOM             | LTE 20 MHz | 64QAM      | 578             | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | -599            | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | 280             | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | 1.062           | Hz  |
| MIDDLE             | LTE 20 MHz | 64QAM      | -208            | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | 36              | mHz |
| TOP                | LTE 20 MHz | QPSK       | -123            | mHz |
| TOP                | LTE 20 MHz | 16QAM      | -1.349          | Hz  |
| TOP                | LTE 20 MHz | 64QAM      | 47              | mHz |
| TOP                | LTE 20 MHz | 256QAM     | -1.317          | Hz  |

## RF PORT 2

| Temperature = -30°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | -1.324          | Hz  |
| BOTTOM              | LTE 5 MHz  | 16QAM      | 438             | mHz |
| BOTTOM              | LTE 5 MHz  | 64QAM      | 680             | mHz |
| BOTTOM              | LTE 5 MHz  | 256QAM     | -1.439          | Hz  |
| MIDDLE              | LTE 5 MHz  | QPSK       | 592             | mHz |
| MIDDLE              | LTE 5 MHz  | 16QAM      | -1.466          | Hz  |
| MIDDLE              | LTE 5 MHz  | 64QAM      | -136            | mHz |
| MIDDLE              | LTE 5 MHz  | 256QAM     | 480             | mHz |
| TOP                 | LTE 5 MHz  | QPSK       | -175            | mHz |
| TOP                 | LTE 5 MHz  | 16QAM      | -1.267          | Hz  |
| TOP                 | LTE 5 MHz  | 64QAM      | -772            | mHz |
| TOP                 | LTE 5 MHz  | 256QAM     | -455            | mHz |
| BOTTOM              | LTE 10 MHz | QPSK       | 1.311           | Hz  |
| BOTTOM              | LTE 10 MHz | 16QAM      | 346             | mHz |
| BOTTOM              | LTE 10 MHz | 64QAM      | 8               | mHz |
| BOTTOM              | LTE 10 MHz | 256QAM     | -871            | mHz |
| MIDDLE              | LTE 10 MHz | QPSK       | -538            | mHz |
| MIDDLE              | LTE 10 MHz | 16QAM      | 25              | mHz |
| MIDDLE              | LTE 10 MHz | 64QAM      | -1.162          | Hz  |
| MIDDLE              | LTE 10 MHz | 256QAM     | 1.469           | Hz  |
| TOP                 | LTE 10 MHz | QPSK       | -496            | mHz |
| TOP                 | LTE 10 MHz | 16QAM      | 118             | mHz |
| TOP                 | LTE 10 MHz | 64QAM      | 406             | mHz |
| TOP                 | LTE 10 MHz | 256QAM     | -454            | mHz |
| BOTTOM              | LTE 15 MHz | QPSK       | -736            | mHz |
| BOTTOM              | LTE 15 MHz | 16QAM      | -232            | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | -465            | mHz |
| BOTTOM              | LTE 15 MHz | 256QAM     | -1.123          | Hz  |
| MIDDLE              | LTE 15 MHz | QPSK       | 357             | mHz |
| MIDDLE              | LTE 15 MHz | 16QAM      | -150            | mHz |
| MIDDLE              | LTE 15 MHz | 64QAM      | -721            | mHz |
| MIDDLE              | LTE 15 MHz | 256QAM     | 928             | mHz |
| TOP                 | LTE 15 MHz | QPSK       | -980            | mHz |
| TOP                 | LTE 15 MHz | 16QAM      | 911             | mHz |
| TOP                 | LTE 15 MHz | 64QAM      | -306            | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | 347             | mHz |
| BOTTOM              | LTE 20 MHz | QPSK       | -984            | mHz |
| BOTTOM              | LTE 20 MHz | 16QAM      | -828            | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | 115             | mHz |
| BOTTOM              | LTE 20 MHz | 256QAM     | 237             | mHz |
| MIDDLE              | LTE 20 MHz | QPSK       | 683             | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | -15             | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | -981            | mHz |
| MIDDLE              | LTE 20 MHz | 256QAM     | -365            | mHz |
| TOP                 | LTE 20 MHz | QPSK       | -1.378          | Hz  |
| TOP                 | LTE 20 MHz | 16QAM      | -930            | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | 1.32            | Hz  |
| TOP                 | LTE 20 MHz | 256QAM     | 25              | mHz |

| Temperature = -20°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | -231            | mHz |
| BOTTOM              | LTE 5 MHz  | 16QAM      | -810            | mHz |
| BOTTOM              | LTE 5 MHz  | 64QAM      | 1.084           | Hz  |
| BOTTOM              | LTE 5 MHz  | 256QAM     | 97              | mHz |
| MIDDLE              | LTE 5 MHz  | QPSK       | 841             | mHz |
| MIDDLE              | LTE 5 MHz  | 16QAM      | -1.469          | Hz  |
| MIDDLE              | LTE 5 MHz  | 64QAM      | 1.167           | Hz  |
| MIDDLE              | LTE 5 MHz  | 256QAM     | -100            | mHz |
| TOP                 | LTE 5 MHz  | QPSK       | 526             | mHz |
| TOP                 | LTE 5 MHz  | 16QAM      | -653            | mHz |
| TOP                 | LTE 5 MHz  | 64QAM      | 609             | mHz |
| TOP                 | LTE 5 MHz  | 256QAM     | 1.405           | Hz  |
| BOTTOM              | LTE 10 MHz | QPSK       | 58              | mHz |
| BOTTOM              | LTE 10 MHz | 16QAM      | -265            | mHz |
| BOTTOM              | LTE 10 MHz | 64QAM      | 423             | mHz |
| BOTTOM              | LTE 10 MHz | 256QAM     | 870             | mHz |
| MIDDLE              | LTE 10 MHz | QPSK       | -128            | mHz |
| MIDDLE              | LTE 10 MHz | 16QAM      | -1.273          | Hz  |
| MIDDLE              | LTE 10 MHz | 64QAM      | -24             | mHz |
| MIDDLE              | LTE 10 MHz | 256QAM     | -348            | mHz |
| TOP                 | LTE 10 MHz | QPSK       | 1.293           | Hz  |
| TOP                 | LTE 10 MHz | 16QAM      | -1.344          | Hz  |
| TOP                 | LTE 10 MHz | 64QAM      | 294             | mHz |
| TOP                 | LTE 10 MHz | 256QAM     | -1.019          | Hz  |
| BOTTOM              | LTE 15 MHz | QPSK       | 642             | mHz |
| BOTTOM              | LTE 15 MHz | 16QAM      | -425            | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | 924             | mHz |
| BOTTOM              | LTE 15 MHz | 256QAM     | 78              | mHz |
| MIDDLE              | LTE 15 MHz | QPSK       | 1.181           | Hz  |
| MIDDLE              | LTE 15 MHz | 16QAM      | -714            | mHz |
| MIDDLE              | LTE 15 MHz | 64QAM      | 1.35            | Hz  |
| MIDDLE              | LTE 15 MHz | 256QAM     | 426             | mHz |
| TOP                 | LTE 15 MHz | QPSK       | 1.488           | Hz  |
| TOP                 | LTE 15 MHz | 16QAM      | 605             | mHz |
| TOP                 | LTE 15 MHz | 64QAM      | -454            | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | 1.349           | Hz  |
| BOTTOM              | LTE 20 MHz | QPSK       | 479             | mHz |
| BOTTOM              | LTE 20 MHz | 16QAM      | -758            | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | 551             | mHz |
| BOTTOM              | LTE 20 MHz | 256QAM     | 539             | mHz |
| MIDDLE              | LTE 20 MHz | QPSK       | -153            | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | -455            | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | -917            | mHz |
| MIDDLE              | LTE 20 MHz | 256QAM     | -355            | mHz |
| TOP                 | LTE 20 MHz | QPSK       | -720            | mHz |
| TOP                 | LTE 20 MHz | 16QAM      | -554            | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | -1.078          | Hz  |
| TOP                 | LTE 20 MHz | 256QAM     | -697            | mHz |

| Temperature = -10°C |            |            |                 |     |
|---------------------|------------|------------|-----------------|-----|
| Channel             | Signal     | Modulation | Frequency Error |     |
| BOTTOM              | LTE 5 MHz  | QPSK       | -140            | mHz |
| BOTTOM              | LTE 5 MHz  | 16QAM      | 712             | mHz |
| BOTTOM              | LTE 5 MHz  | 64QAM      | -1.157          | Hz  |
| BOTTOM              | LTE 5 MHz  | 256QAM     | 221             | mHz |
| MIDDLE              | LTE 5 MHz  | QPSK       | -163.16         | mHz |
| MIDDLE              | LTE 5 MHz  | 16QAM      | 358.28          | mHz |
| MIDDLE              | LTE 5 MHz  | 64QAM      | 1.1963          | Hz  |
| MIDDLE              | LTE 5 MHz  | 256QAM     | 916.94          | mHz |
| TOP                 | LTE 5 MHz  | QPSK       | -440            | mHz |
| TOP                 | LTE 5 MHz  | 16QAM      | -1.091          | Hz  |
| TOP                 | LTE 5 MHz  | 64QAM      | 1.081           | Hz  |
| TOP                 | LTE 5 MHz  | 256QAM     | 1.254           | Hz  |
| BOTTOM              | LTE 10 MHz | QPSK       | 1.343           | Hz  |
| BOTTOM              | LTE 10 MHz | 16QAM      | 1.02            | Hz  |
| BOTTOM              | LTE 10 MHz | 64QAM      | -892            | mHz |
| BOTTOM              | LTE 10 MHz | 256QAM     | 35              | mHz |
| MIDDLE              | LTE 10 MHz | QPSK       | 1.6114          | Hz  |
| MIDDLE              | LTE 10 MHz | 16QAM      | -608.27         | mHz |
| MIDDLE              | LTE 10 MHz | 64QAM      | -457.08         | mHz |
| MIDDLE              | LTE 10 MHz | 256QAM     | 1.8393          | Hz  |
| TOP                 | LTE 10 MHz | QPSK       | -100            | mHz |
| TOP                 | LTE 10 MHz | 16QAM      | -440            | mHz |
| TOP                 | LTE 10 MHz | 64QAM      | -4              | mHz |
| TOP                 | LTE 10 MHz | 256QAM     | -336            | mHz |
| BOTTOM              | LTE 15 MHz | QPSK       | -1.371          | Hz  |
| BOTTOM              | LTE 15 MHz | 16QAM      | -864            | mHz |
| BOTTOM              | LTE 15 MHz | 64QAM      | -190            | mHz |
| BOTTOM              | LTE 15 MHz | 256QAM     | 1.327           | Hz  |
| MIDDLE              | LTE 15 MHz | QPSK       | -80.522         | mHz |
| MIDDLE              | LTE 15 MHz | 16QAM      | 844.67          | mHz |
| MIDDLE              | LTE 15 MHz | 64QAM      | 318.33          | mHz |
| MIDDLE              | LTE 15 MHz | 256QAM     | 727.13          | mHz |
| TOP                 | LTE 15 MHz | QPSK       | 551             | mHz |
| TOP                 | LTE 15 MHz | 16QAM      | 1.018           | Hz  |
| TOP                 | LTE 15 MHz | 64QAM      | 243             | mHz |
| TOP                 | LTE 15 MHz | 256QAM     | -1.11           | Hz  |
| BOTTOM              | LTE 20 MHz | QPSK       | -484            | mHz |
| BOTTOM              | LTE 20 MHz | 16QAM      | -921            | mHz |
| BOTTOM              | LTE 20 MHz | 64QAM      | -42             | mHz |
| BOTTOM              | LTE 20 MHz | 256QAM     | 1.268           | Hz  |
| MIDDLE              | LTE 20 MHz | QPSK       | -877.14         | mHz |
| MIDDLE              | LTE 20 MHz | 16QAM      | 195.02          | mHz |
| MIDDLE              | LTE 20 MHz | 64QAM      | 84.747          | mHz |
| MIDDLE              | LTE 20 MHz | 256QAM     | 1.3597          | Hz  |
| TOP                 | LTE 20 MHz | QPSK       | -879            | mHz |
| TOP                 | LTE 20 MHz | 16QAM      | -185            | mHz |
| TOP                 | LTE 20 MHz | 64QAM      | 277             | mHz |
| TOP                 | LTE 20 MHz | 256QAM     | -1.371          | Hz  |

| Temperature = 0°C |            |            |                 |     |
|-------------------|------------|------------|-----------------|-----|
| Channel           | Signal     | Modulation | Frequency Error |     |
| BOTTOM            | LTE 5 MHz  | QPSK       | 1.034           | Hz  |
| BOTTOM            | LTE 5 MHz  | 16QAM      | -1.332          | Hz  |
| BOTTOM            | LTE 5 MHz  | 64QAM      | 938             | mHz |
| BOTTOM            | LTE 5 MHz  | 256QAM     | 652             | mHz |
| MIDDLE            | LTE 5 MHz  | QPSK       | 1.313           | Hz  |
| MIDDLE            | LTE 5 MHz  | 16QAM      | 231             | mHz |
| MIDDLE            | LTE 5 MHz  | 64QAM      | 297             | mHz |
| MIDDLE            | LTE 5 MHz  | 256QAM     | 311             | mHz |
| TOP               | LTE 5 MHz  | QPSK       | 230             | mHz |
| TOP               | LTE 5 MHz  | 16QAM      | 891             | mHz |
| TOP               | LTE 5 MHz  | 64QAM      | -1.106          | Hz  |
| TOP               | LTE 5 MHz  | 256QAM     | -974            | mHz |
| BOTTOM            | LTE 10 MHz | QPSK       | 1.376           | Hz  |
| BOTTOM            | LTE 10 MHz | 16QAM      | 1.171           | Hz  |
| BOTTOM            | LTE 10 MHz | 64QAM      | -602            | mHz |
| BOTTOM            | LTE 10 MHz | 256QAM     | -747            | mHz |
| MIDDLE            | LTE 10 MHz | QPSK       | 1.272           | Hz  |
| MIDDLE            | LTE 10 MHz | 16QAM      | 1.298           | Hz  |
| MIDDLE            | LTE 10 MHz | 64QAM      | 1.188           | Hz  |
| MIDDLE            | LTE 10 MHz | 256QAM     | -911            | mHz |
| TOP               | LTE 10 MHz | QPSK       | 557             | mHz |
| TOP               | LTE 10 MHz | 16QAM      | 1.27            | Hz  |
| TOP               | LTE 10 MHz | 64QAM      | 154             | mHz |
| TOP               | LTE 10 MHz | 256QAM     | -840            | mHz |
| BOTTOM            | LTE 15 MHz | QPSK       | 310             | mHz |
| BOTTOM            | LTE 15 MHz | 16QAM      | -262            | mHz |
| BOTTOM            | LTE 15 MHz | 64QAM      | -682            | mHz |
| BOTTOM            | LTE 15 MHz | 256QAM     | -1.437          | Hz  |
| MIDDLE            | LTE 15 MHz | QPSK       | -505            | mHz |
| MIDDLE            | LTE 15 MHz | 16QAM      | -822            | mHz |
| MIDDLE            | LTE 15 MHz | 64QAM      | -595            | mHz |
| MIDDLE            | LTE 15 MHz | 256QAM     | -9              | mHz |
| TOP               | LTE 15 MHz | QPSK       | -1.461          | Hz  |
| TOP               | LTE 15 MHz | 16QAM      | -455            | mHz |
| TOP               | LTE 15 MHz | 64QAM      | 197             | mHz |
| TOP               | LTE 15 MHz | 256QAM     | 385             | mHz |
| BOTTOM            | LTE 20 MHz | QPSK       | 1.095           | Hz  |
| BOTTOM            | LTE 20 MHz | 16QAM      | -1.143          | Hz  |
| BOTTOM            | LTE 20 MHz | 64QAM      | -1.476          | Hz  |
| BOTTOM            | LTE 20 MHz | 256QAM     | 1.409           | Hz  |
| MIDDLE            | LTE 20 MHz | QPSK       | 686             | mHz |
| MIDDLE            | LTE 20 MHz | 16QAM      | 515             | mHz |
| MIDDLE            | LTE 20 MHz | 64QAM      | 1.298           | Hz  |
| MIDDLE            | LTE 20 MHz | 256QAM     | 715             | mHz |
| TOP               | LTE 20 MHz | QPSK       | -223            | mHz |
| TOP               | LTE 20 MHz | 16QAM      | -601            | mHz |
| TOP               | LTE 20 MHz | 64QAM      | 382             | mHz |
| TOP               | LTE 20 MHz | 256QAM     | 1.162           | Hz  |

| Temperature = 10°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 758             | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | -574            | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | -525            | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 1.132           | Hz  |
| MIDDLE             | LTE 5 MHz  | QPSK       | 650             | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | -1.111          | Hz  |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -575            | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | -832            | mHz |
| TOP                | LTE 5 MHz  | QPSK       | 933             | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 1.352           | Hz  |
| TOP                | LTE 5 MHz  | 64QAM      | -501            | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | 307             | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | -1.234          | Hz  |
| BOTTOM             | LTE 10 MHz | 16QAM      | 1.007           | Hz  |
| BOTTOM             | LTE 10 MHz | 64QAM      | -12             | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | -732            | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | 1.205           | Hz  |
| MIDDLE             | LTE 10 MHz | 16QAM      | -869            | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -740            | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | 1.095           | Hz  |
| TOP                | LTE 10 MHz | QPSK       | 428             | mHz |
| TOP                | LTE 10 MHz | 16QAM      | -1.137          | Hz  |
| TOP                | LTE 10 MHz | 64QAM      | -1.143          | Hz  |
| TOP                | LTE 10 MHz | 256QAM     | -82             | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | 153             | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | -740            | mHz |
| BOTTOM             | LTE 15 MHz | 64QAM      | -470            | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | -210            | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | -457            | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | 671             | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | 641             | mHz |
| MIDDLE             | LTE 15 MHz | 256QAM     | 306             | mHz |
| TOP                | LTE 15 MHz | QPSK       | 1.385           | Hz  |
| TOP                | LTE 15 MHz | 16QAM      | 1.086           | Hz  |
| TOP                | LTE 15 MHz | 64QAM      | -153            | mHz |
| TOP                | LTE 15 MHz | 256QAM     | -1.227          | Hz  |
| BOTTOM             | LTE 20 MHz | QPSK       | -1.154          | Hz  |
| BOTTOM             | LTE 20 MHz | 16QAM      | 836             | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | -500            | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | -300            | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | 1.109           | Hz  |
| MIDDLE             | LTE 20 MHz | 16QAM      | 1.268           | Hz  |
| MIDDLE             | LTE 20 MHz | 64QAM      | 845             | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | 28              | mHz |
| TOP                | LTE 20 MHz | QPSK       | -112            | mHz |
| TOP                | LTE 20 MHz | 16QAM      | -657            | mHz |
| TOP                | LTE 20 MHz | 64QAM      | -1.439          | Hz  |
| TOP                | LTE 20 MHz | 256QAM     | 354             | mHz |



| Temperature = 20°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 433.7           | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | -437.56         | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | 374.54          | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 751.4           | mHz |
| MIDDLE             | LTE 5 MHz  | QPSK       | 304.09          | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 561.36          | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -891.31         | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | -593.51         | mHz |
| TOP                | LTE 5 MHz  | QPSK       | -822.86         | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | -454.02         | mHz |
| TOP                | LTE 5 MHz  | 64QAM      | -386.73         | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | 256.2           | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | -281.28         | mHz |
| BOTTOM             | LTE 10 MHz | 16QAM      | -917.51         | mHz |
| BOTTOM             | LTE 10 MHz | 64QAM      | -279.98         | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | 10.621          | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | -902.54         | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | -832.57         | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | 289.03          | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | -459.11         | mHz |
| TOP                | LTE 10 MHz | QPSK       | 506.66          | mHz |
| TOP                | LTE 10 MHz | 16QAM      | -551.81         | mHz |
| TOP                | LTE 10 MHz | 64QAM      | 225.31          | mHz |
| TOP                | LTE 10 MHz | 256QAM     | 734.93          | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | 123.23          | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | -731.56         | mHz |
| BOTTOM             | LTE 15 MHz | 64QAM      | -958.88         | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | -594.92         | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | -286.78         | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | 58.895          | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | 48.689          | mHz |
| MIDDLE             | LTE 15 MHz | 256QAM     | 478.82          | mHz |
| TOP                | LTE 15 MHz | QPSK       | -11.506         | mHz |
| TOP                | LTE 15 MHz | 16QAM      | 85.995          | mHz |
| TOP                | LTE 15 MHz | 64QAM      | 567.47          | mHz |
| TOP                | LTE 15 MHz | 256QAM     | 958.64          | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | 478.43          | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | -572.57         | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | 162.57          | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | -65.985         | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | -277.95         | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | 239.13          | mHz |
| MIDDLE             | LTE 20 MHz | 64QAM      | -732.31         | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | 480.66          | mHz |
| TOP                | LTE 20 MHz | QPSK       | 3.3501          | mHz |
| TOP                | LTE 20 MHz | 16QAM      | 92.686          | mHz |
| TOP                | LTE 20 MHz | 64QAM      | 249.25          | mHz |
| TOP                | LTE 20 MHz | 256QAM     | -59.674         | mHz |

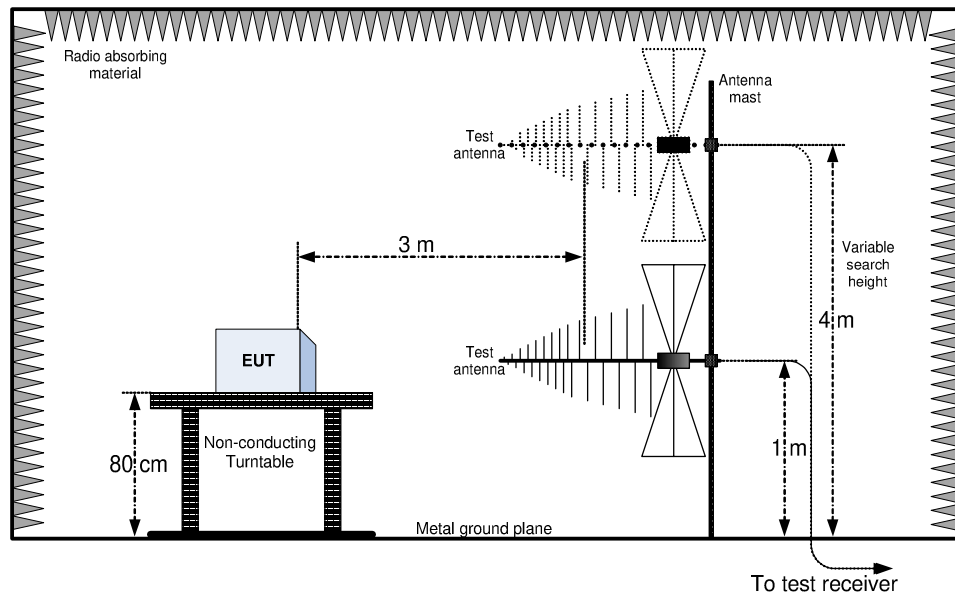
| Temperature = 30°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | -281            | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | -685            | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | -1.462          | Hz  |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 1.326           | Hz  |
| MIDDLE             | LTE 5 MHz  | QPSK       | -217.96         | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | -181.03         | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -805.47         | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | 495.49          | mHz |
| TOP                | LTE 5 MHz  | QPSK       | -282            | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 1.179           | Hz  |
| TOP                | LTE 5 MHz  | 64QAM      | 1.401           | Hz  |
| TOP                | LTE 5 MHz  | 256QAM     | 491             | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | -1.26           | Hz  |
| BOTTOM             | LTE 10 MHz | 16QAM      | -1.406          | Hz  |
| BOTTOM             | LTE 10 MHz | 64QAM      | -743            | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | -632            | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | 927.96          | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | -535.23         | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | 712.69          | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | 969.69          | mHz |
| TOP                | LTE 10 MHz | QPSK       | -342            | mHz |
| TOP                | LTE 10 MHz | 16QAM      | 1.099           | Hz  |
| TOP                | LTE 10 MHz | 64QAM      | 824             | mHz |
| TOP                | LTE 10 MHz | 256QAM     | 163             | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | 102             | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | -850            | mHz |
| BOTTOM             | LTE 15 MHz | 64QAM      | -621            | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | -759            | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | -627.17         | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | 436.5           | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | 649.44          | mHz |
| MIDDLE             | LTE 15 MHz | 256QAM     | 290.19          | mHz |
| TOP                | LTE 15 MHz | QPSK       | 78              | mHz |
| TOP                | LTE 15 MHz | 16QAM      | -775            | mHz |
| TOP                | LTE 15 MHz | 64QAM      | -1.11           | Hz  |
| TOP                | LTE 15 MHz | 256QAM     | 233             | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | -137            | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | -376            | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | -512            | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | 90              | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | 21.788          | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | -930.32         | mHz |
| MIDDLE             | LTE 20 MHz | 64QAM      | 435.36          | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | -19.418         | mHz |
| TOP                | LTE 20 MHz | QPSK       | -1.493          | Hz  |
| TOP                | LTE 20 MHz | 16QAM      | 1.337           | Hz  |
| TOP                | LTE 20 MHz | 64QAM      | 208             | mHz |
| TOP                | LTE 20 MHz | 256QAM     | -656            | mHz |

| Temperature = 40°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | 552             | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | 860             | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | -657            | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 729             | mHz |
| MIDDLE             | LTE 5 MHz  | QPSK       | 610.82          | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | -54.883         | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | 642.28          | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | 459.3           | mHz |
| TOP                | LTE 5 MHz  | QPSK       | 450             | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 1.235           | Hz  |
| TOP                | LTE 5 MHz  | 64QAM      | -216            | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | -489            | mHz |
| BOTTOM             | LTE 10 MHz | QPSK       | -198            | mHz |
| BOTTOM             | LTE 10 MHz | 16QAM      | -876            | mHz |
| BOTTOM             | LTE 10 MHz | 64QAM      | 507             | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | 1.248           | Hz  |
| MIDDLE             | LTE 10 MHz | QPSK       | 490.7           | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | 10.885          | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -1.3808         | Hz  |
| MIDDLE             | LTE 10 MHz | 256QAM     | -237.86         | mHz |
| TOP                | LTE 10 MHz | QPSK       | -595            | mHz |
| TOP                | LTE 10 MHz | 16QAM      | -320            | mHz |
| TOP                | LTE 10 MHz | 64QAM      | -378            | mHz |
| TOP                | LTE 10 MHz | 256QAM     | 1.383           | Hz  |
| BOTTOM             | LTE 15 MHz | QPSK       | -1.128          | Hz  |
| BOTTOM             | LTE 15 MHz | 16QAM      | -91             | mHz |
| BOTTOM             | LTE 15 MHz | 64QAM      | 1.29            | Hz  |
| BOTTOM             | LTE 15 MHz | 256QAM     | -1.245          | Hz  |
| MIDDLE             | LTE 15 MHz | QPSK       | 592.33          | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | -927.98         | mHz |
| MIDDLE             | LTE 15 MHz | 64QAM      | -1.898          | Hz  |
| MIDDLE             | LTE 15 MHz | 256QAM     | -240.31         | mHz |
| TOP                | LTE 15 MHz | QPSK       | -993            | mHz |
| TOP                | LTE 15 MHz | 16QAM      | 1.373           | Hz  |
| TOP                | LTE 15 MHz | 64QAM      | -332            | mHz |
| TOP                | LTE 15 MHz | 256QAM     | 883             | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | 1.258           | Hz  |
| BOTTOM             | LTE 20 MHz | 16QAM      | 815             | mHz |
| BOTTOM             | LTE 20 MHz | 64QAM      | 474             | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | -206            | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | 247.97          | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | -258.19         | mHz |
| MIDDLE             | LTE 20 MHz | 64QAM      | 61.752          | mHz |
| MIDDLE             | LTE 20 MHz | 256QAM     | -82.989         | mHz |
| TOP                | LTE 20 MHz | QPSK       | -967            | mHz |
| TOP                | LTE 20 MHz | 16QAM      | 1.186           | Hz  |
| TOP                | LTE 20 MHz | 64QAM      | -1.304          | Hz  |
| TOP                | LTE 20 MHz | 256QAM     | -1.239          | Hz  |

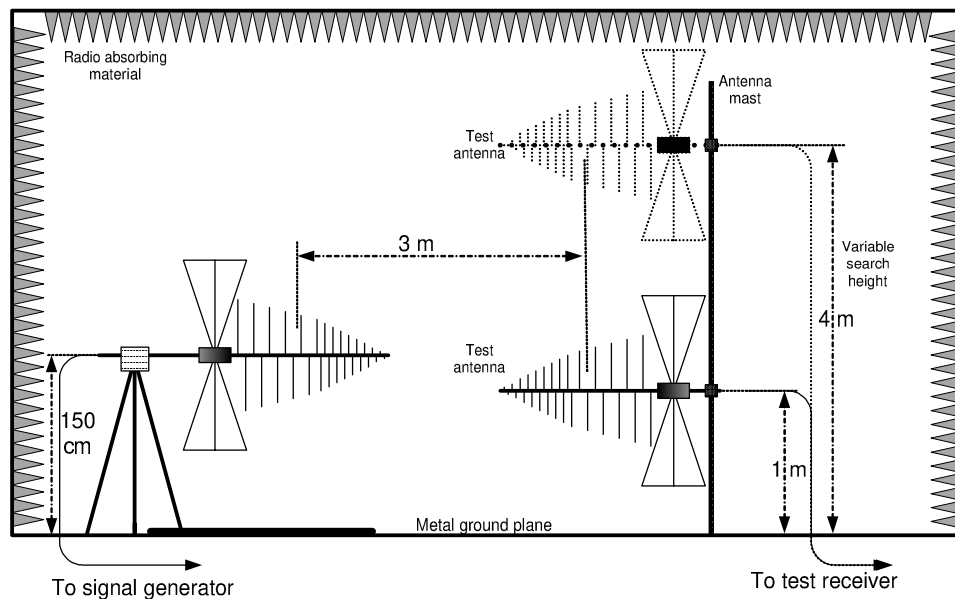
| Temperature = 50°C |            |            |                 |     |
|--------------------|------------|------------|-----------------|-----|
| Channel            | Signal     | Modulation | Frequency Error |     |
| BOTTOM             | LTE 5 MHz  | QPSK       | -231            | mHz |
| BOTTOM             | LTE 5 MHz  | 16QAM      | 170             | mHz |
| BOTTOM             | LTE 5 MHz  | 64QAM      | 142             | mHz |
| BOTTOM             | LTE 5 MHz  | 256QAM     | 157             | mHz |
| MIDDLE             | LTE 5 MHz  | QPSK       | -101            | mHz |
| MIDDLE             | LTE 5 MHz  | 16QAM      | 305             | mHz |
| MIDDLE             | LTE 5 MHz  | 64QAM      | -70             | mHz |
| MIDDLE             | LTE 5 MHz  | 256QAM     | 1.026           | Hz  |
| TOP                | LTE 5 MHz  | QPSK       | 353             | mHz |
| TOP                | LTE 5 MHz  | 16QAM      | 1.145           | Hz  |
| TOP                | LTE 5 MHz  | 64QAM      | -751            | mHz |
| TOP                | LTE 5 MHz  | 256QAM     | -1.288          | Hz  |
| BOTTOM             | LTE 10 MHz | QPSK       | 531             | mHz |
| BOTTOM             | LTE 10 MHz | 16QAM      | -1.278          | Hz  |
| BOTTOM             | LTE 10 MHz | 64QAM      | 621             | mHz |
| BOTTOM             | LTE 10 MHz | 256QAM     | -497            | mHz |
| MIDDLE             | LTE 10 MHz | QPSK       | 81              | mHz |
| MIDDLE             | LTE 10 MHz | 16QAM      | -115            | mHz |
| MIDDLE             | LTE 10 MHz | 64QAM      | -400            | mHz |
| MIDDLE             | LTE 10 MHz | 256QAM     | -251            | mHz |
| TOP                | LTE 10 MHz | QPSK       | -1.12           | Hz  |
| TOP                | LTE 10 MHz | 16QAM      | -504            | mHz |
| TOP                | LTE 10 MHz | 64QAM      | 51              | mHz |
| TOP                | LTE 10 MHz | 256QAM     | 731             | mHz |
| BOTTOM             | LTE 15 MHz | QPSK       | -761            | mHz |
| BOTTOM             | LTE 15 MHz | 16QAM      | 1.426           | Hz  |
| BOTTOM             | LTE 15 MHz | 64QAM      | -315            | mHz |
| BOTTOM             | LTE 15 MHz | 256QAM     | 293             | mHz |
| MIDDLE             | LTE 15 MHz | QPSK       | -578            | mHz |
| MIDDLE             | LTE 15 MHz | 16QAM      | 1.431           | Hz  |
| MIDDLE             | LTE 15 MHz | 64QAM      | 1.405           | Hz  |
| MIDDLE             | LTE 15 MHz | 256QAM     | -520            | mHz |
| TOP                | LTE 15 MHz | QPSK       | 546             | mHz |
| TOP                | LTE 15 MHz | 16QAM      | -1.027          | Hz  |
| TOP                | LTE 15 MHz | 64QAM      | -1.367          | Hz  |
| TOP                | LTE 15 MHz | 256QAM     | 454             | mHz |
| BOTTOM             | LTE 20 MHz | QPSK       | 392             | mHz |
| BOTTOM             | LTE 20 MHz | 16QAM      | 1.34            | Hz  |
| BOTTOM             | LTE 20 MHz | 64QAM      | 905             | mHz |
| BOTTOM             | LTE 20 MHz | 256QAM     | -870            | mHz |
| MIDDLE             | LTE 20 MHz | QPSK       | 58              | mHz |
| MIDDLE             | LTE 20 MHz | 16QAM      | 954             | mHz |
| MIDDLE             | LTE 20 MHz | 64QAM      | 1.496           | Hz  |
| MIDDLE             | LTE 20 MHz | 256QAM     | -1.299          | Hz  |
| TOP                | LTE 20 MHz | QPSK       | 188             | mHz |
| TOP                | LTE 20 MHz | 16QAM      | 743             | mHz |
| TOP                | LTE 20 MHz | 64QAM      | -633            | mHz |
| TOP                | LTE 20 MHz | 256QAM     | 972             | mHz |

## Appendix B: Block diagrams of test set-ups

### Radiated emissions set-up



### Substitution method set-up



## Appendix C: EUT Photos

### Photo Set up

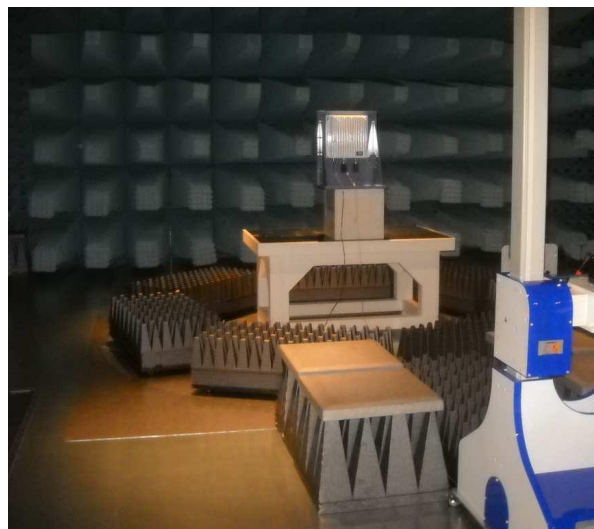




Photo EUT





END OF REPORT