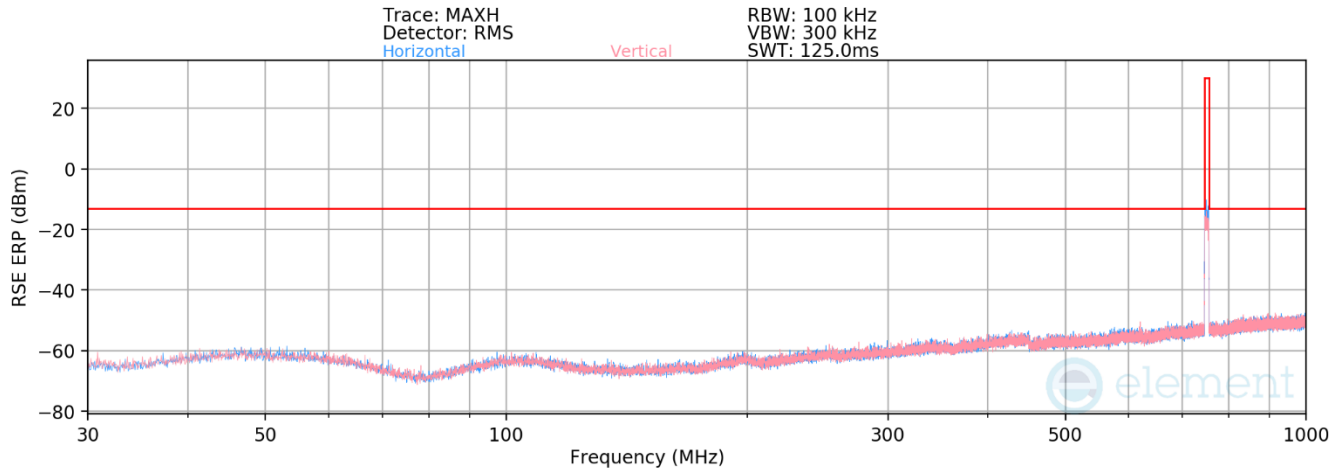
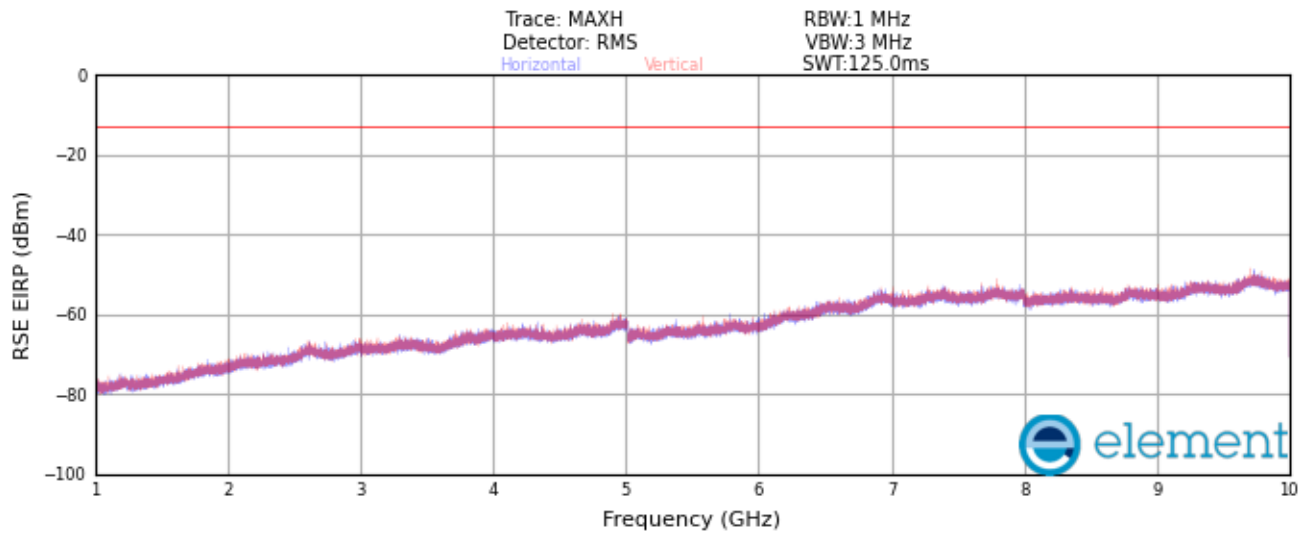


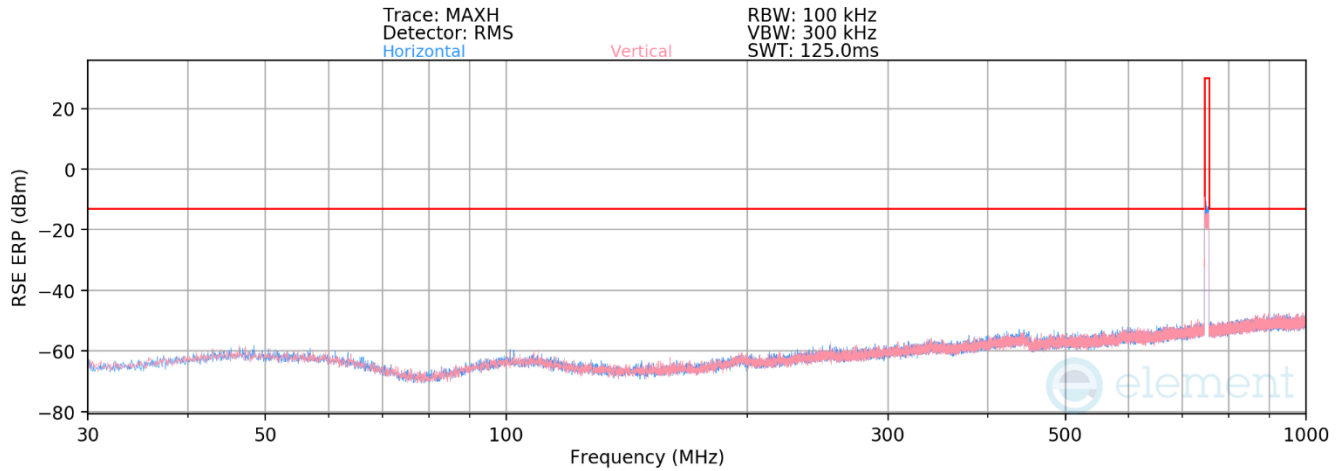


**Plot 8-853. Radiated spurious emission\_30 MHz to 1000 MHz  
(LTE B13\_1C\_5M+NB-IoT(1IB)\_Mid Channel)**

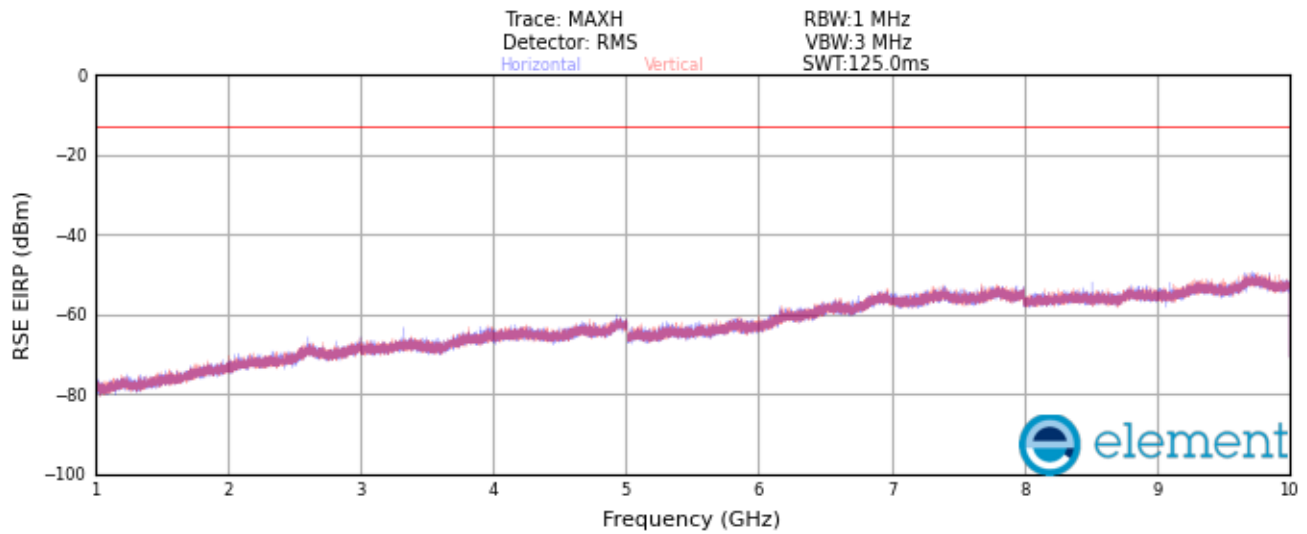


**Plot 8-854. Radiated spurious emission\_1 GHz to 10 GHz  
(LTE B13\_1C\_5M+NB-IoT(1IB)\_Mid Channel)**

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 386 of 394                   |

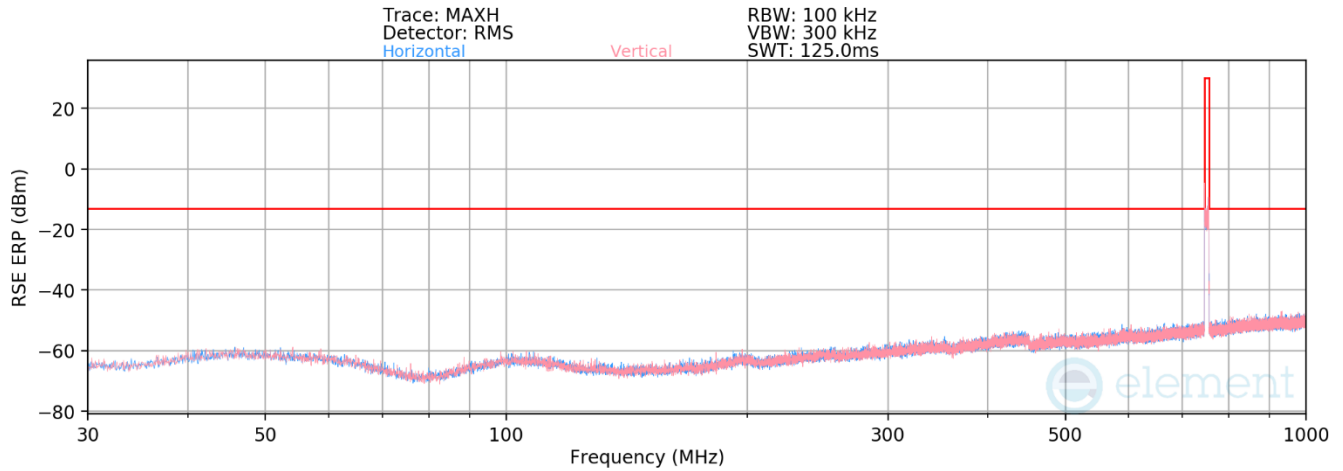


**Plot 8-855. Radiated spurious emission\_30 MHz to 1000 MHz  
(LTE B13\_1C\_10M+NB-IoT(2GB)\_Mid Channel)**

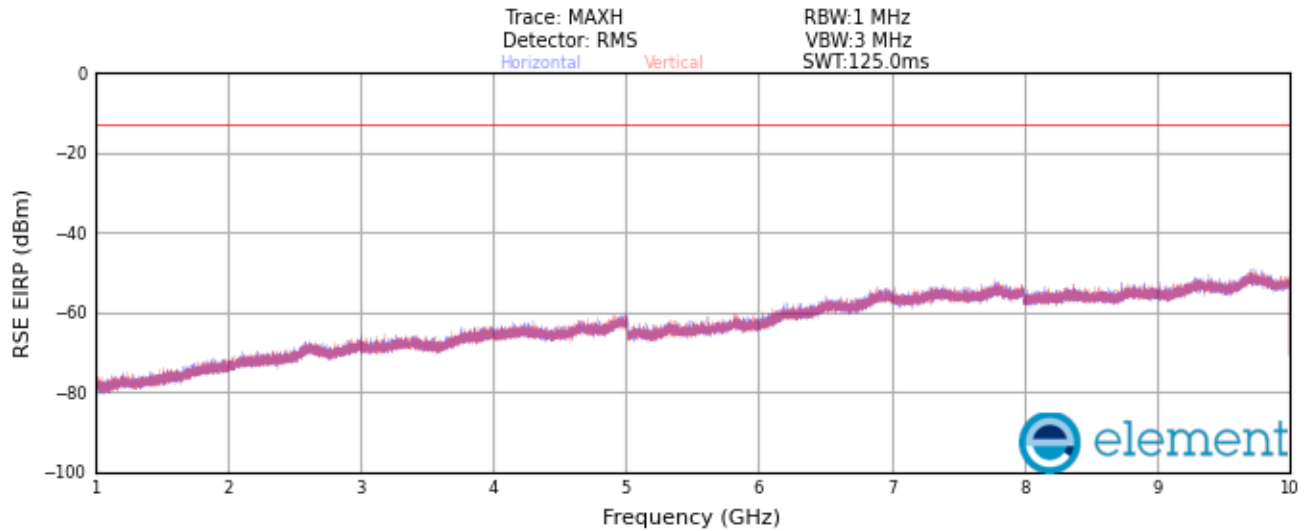


**Plot 8-856. Radiated spurious emission\_1 GHz to 10 GHz  
(LTE B13\_1C\_10M+NB-IoT(2GB)\_Mid Channel)**

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 387 of 394                   |

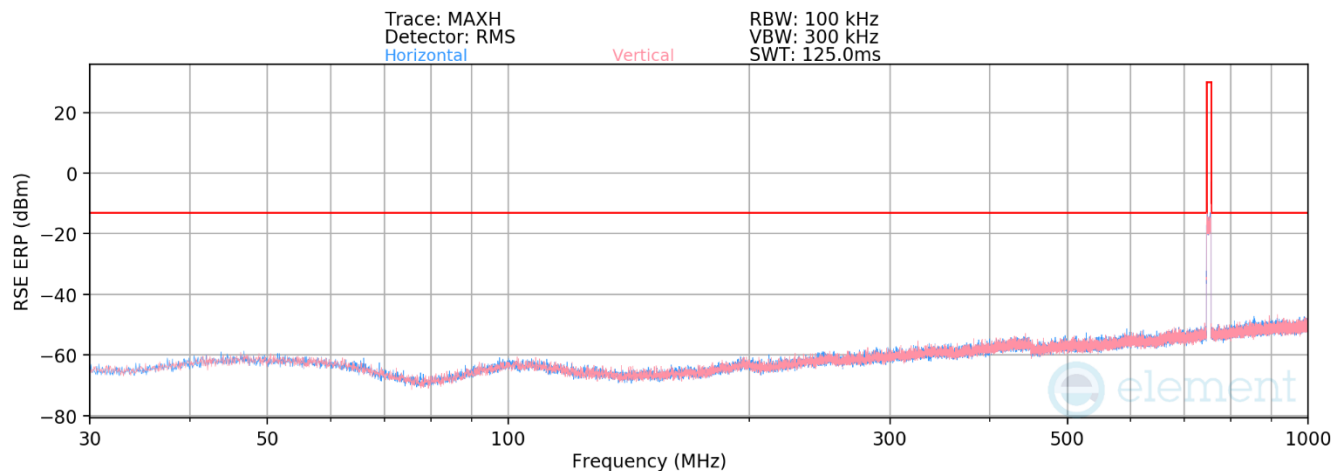


**Plot 8-857. Radiated spurious emission\_30 MHz to 1000 MHz  
(LTE B13\_1C\_10M+NB-IoT(1GB+1IB)\_Mid Channel)**

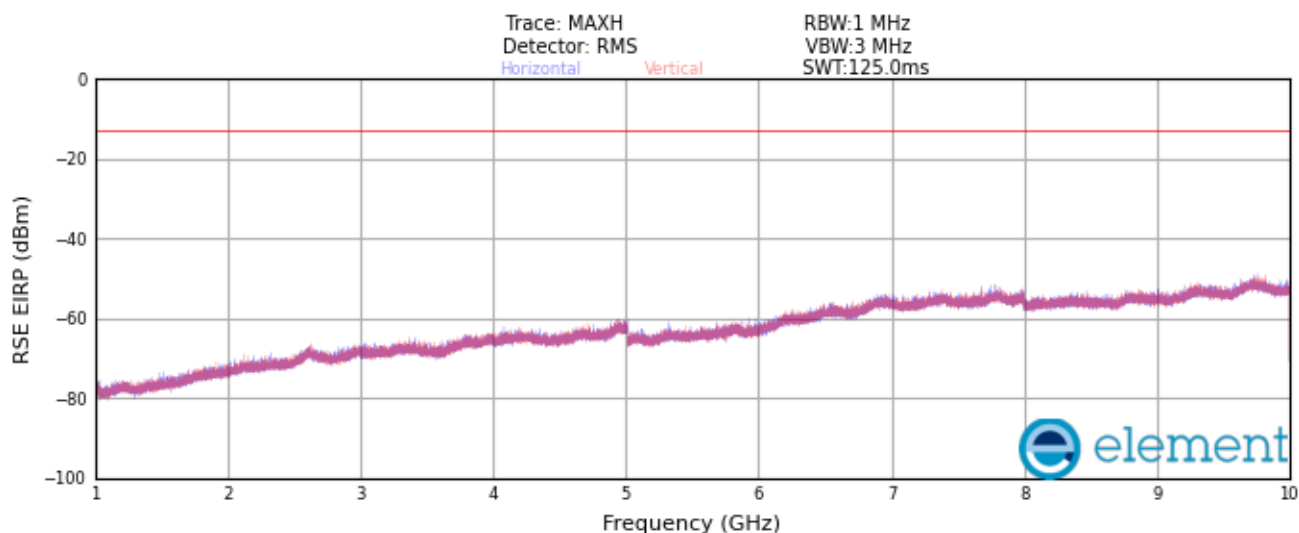


**Plot 8-858. Radiated spurious emission\_1 GHz to 10 GHz  
(LTE B13\_1C\_10M+NB-IoT(1GB+1IB)\_Mid Channel)**

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 388 of 394                   |

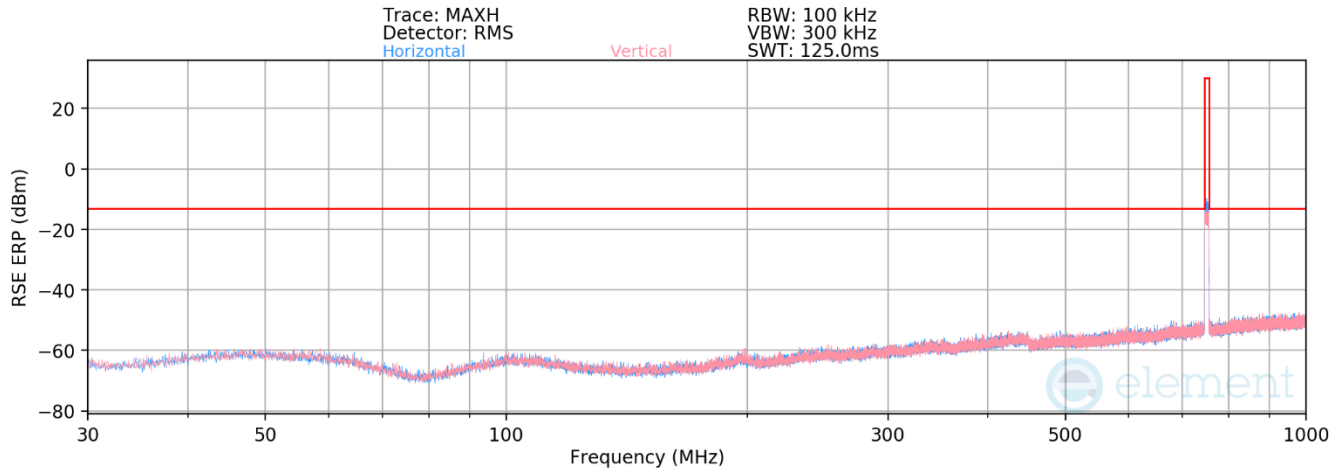


**Plot 8-859. Radiated spurious emission\_30 MHz to 1000 MHz  
(LTE B13\_1C\_10M+NB-IoT(1IB+1GB)\_Mid Channel)**

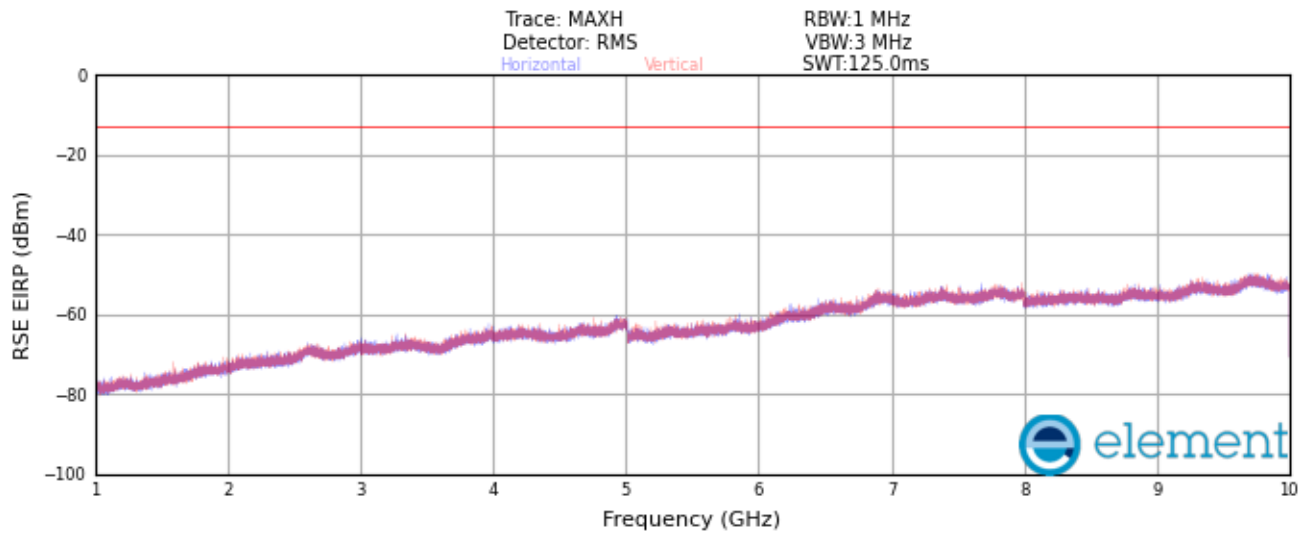


**Plot 8-860. Radiated spurious emission\_1 GHz to 10 GHz  
(LTE B13\_1C\_10M+NB-IoT(1IB+1GB)\_Mid Channel)**

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 389 of 394                   |

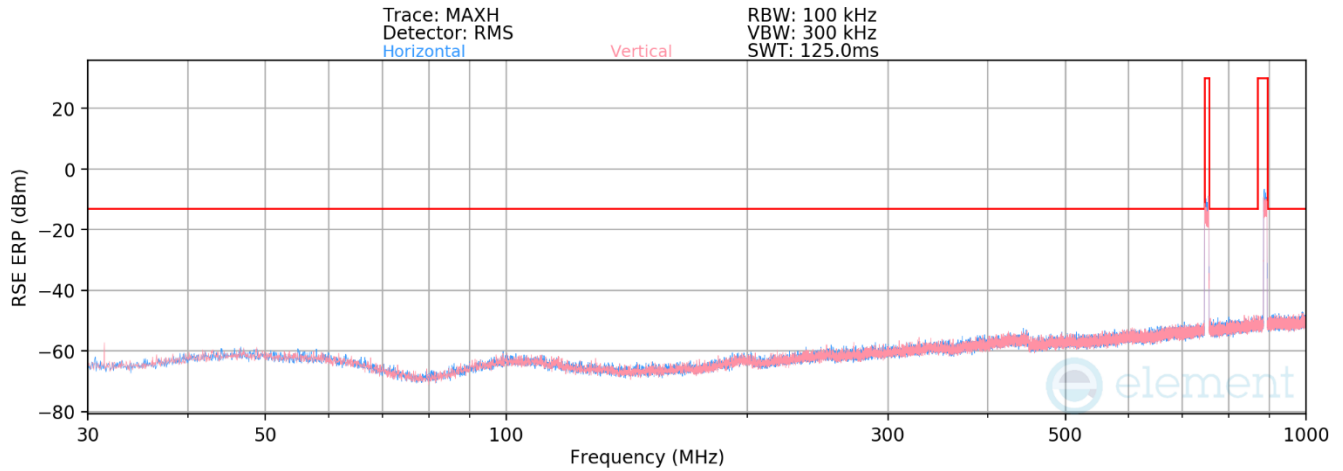


**Plot 8-861. Radiated spurious emission\_30 MHz to 1000 MHz  
(LTE B13\_1C\_10M+NB-IoT(2IB)\_Mid Channel)**

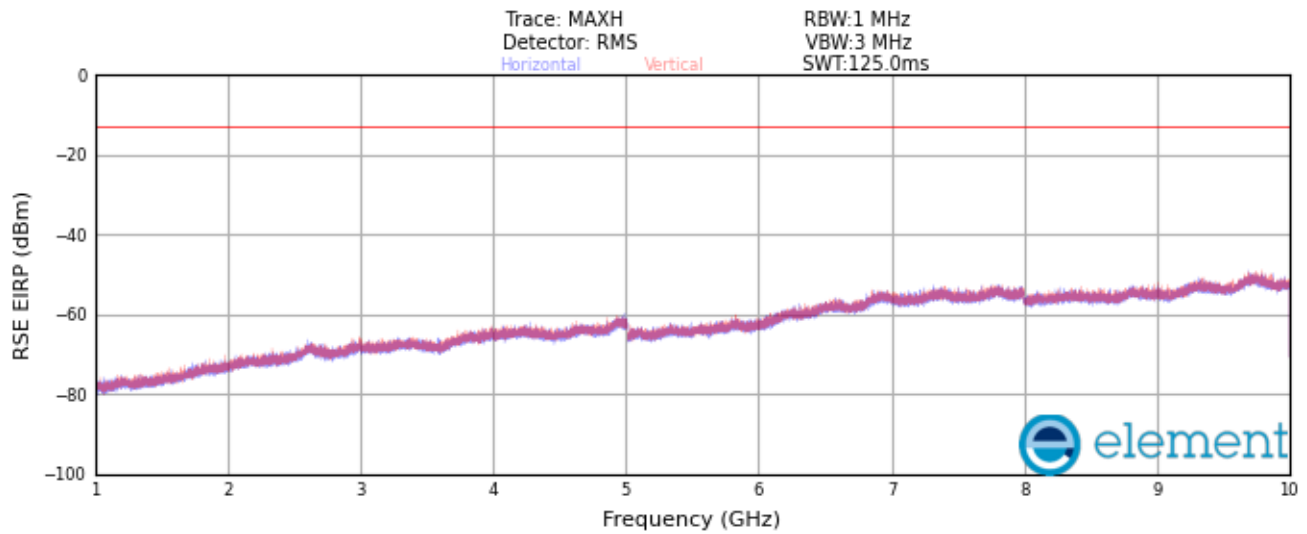


**Plot 8-862. Radiated spurious emission\_1 GHz to 10 GHz  
(LTE B13\_1C\_10M+NB-IoT(2IB)\_Mid Channel)**

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 390 of 394                   |

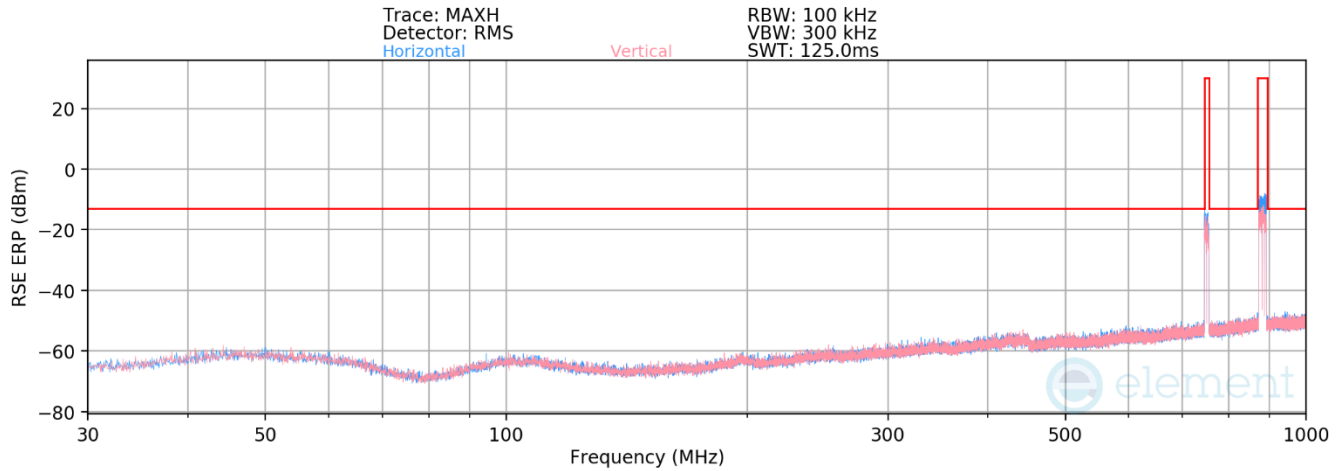


**Plot 8-863. Radiated spurious emission\_30 MHz to 1000 MHz**  
(LTE B13\_1C\_10M+NB-IoT(2GB)+LTE B5\_1C\_10M\_Mid Channel\_2T)

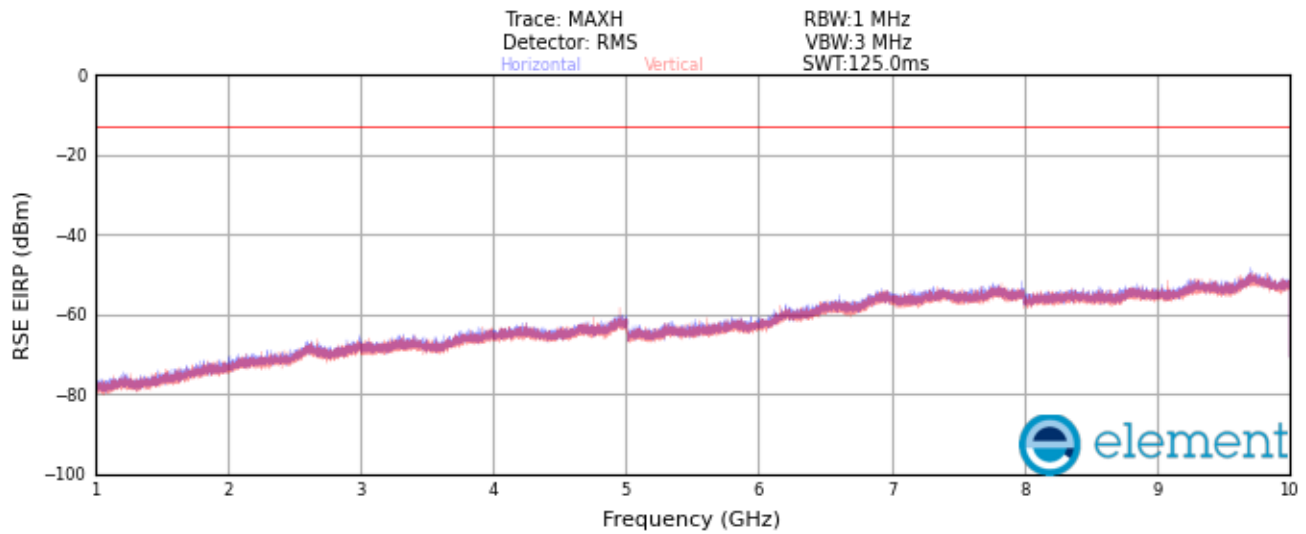


**Plot 8-864. Radiated spurious emission\_1 GHz to 10 GHz**  
(LTE B13\_1C\_10M+NB-IoT(2GB)+LTE B5\_1C\_10M\_Mid Channel\_2T)

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 391 of 394                   |



**Plot 8-865. Radiated spurious emission\_30 MHz to 1000 MHz**  
(Multi-Band\_LTE B13\_2C\_5M+5M+DSS B(n)5\_1C\_10M+NR n5\_1C\_10M+LTE B5\_1C\_5M\_Mid Channel\_2T)



**Plot 8-866. Radiated spurious emission\_1 GHz to 10 GHz**  
(Multi-Band\_LTE B13\_2C\_5M+5M+DSS B(n)5\_1C\_10M+NR n5\_1C\_10M+LTE B5\_1C\_5M\_Mid Channel\_2T)

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 392 of 394                   |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable azimuth [degree] | Analyzer Level [dBm/MHz] | AFCL [dBm] | Field Strength [dBμV/m] | RSE EIRP [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|--------------------------|------------|-------------------------|--------------------|-----------------|-------------|
| 983.42          | H               | 100                 | 30                         | -83.31                   | 25.14      | 48.83                   | -46.43             | -13.00          | -33.43      |
| 954.37          | V               | 100                 | 60                         | -84.42                   | 24.63      | 47.21                   | -48.05             | -13.00          | -35.05      |
| 9792.51         | H               | 150                 | 20                         | -75.25                   | 10.06      | 45.96                   | -53.45             | -13.00          | -40.45      |
| 9784.35         | V               | 150                 | 110                        | -74.28                   | 10.01      | 47.03                   | -52.53             | -13.00          | -39.53      |

**Table 8-317. Radiated spurious emission Worst case Summary Data**  
**(Multi-Band\_LTE B13\_2C\_5M+5M+DSS B(n)5\_1C\_10M+NR n5\_1C\_10M+LTE B5\_1C\_5M\_Mid Channel)**

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 393 of 394                   |

## 9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung RRU(RF4461d) FCC ID: A3LRF4461D-13A** complies with all of the requirements of Part 22 & 27 FCC Rules.

|                                          |                                                                                     |                                       |                                                                                       |                                   |
|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| FCC ID: A3LRF4461D-13A                   |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>8K23040701-00-R2.A3L | Test Dates:<br>04/12/2023 - 05/26/2023                                              | EUT Type:<br>RRU(RF4461d)             |                                                                                       | Page 394 of 394                   |