

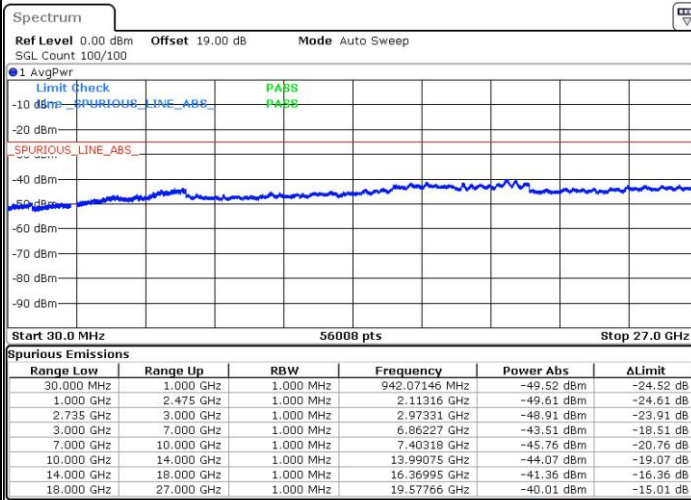


## LTE Band 41C\_CA / 10MHz+20MHz

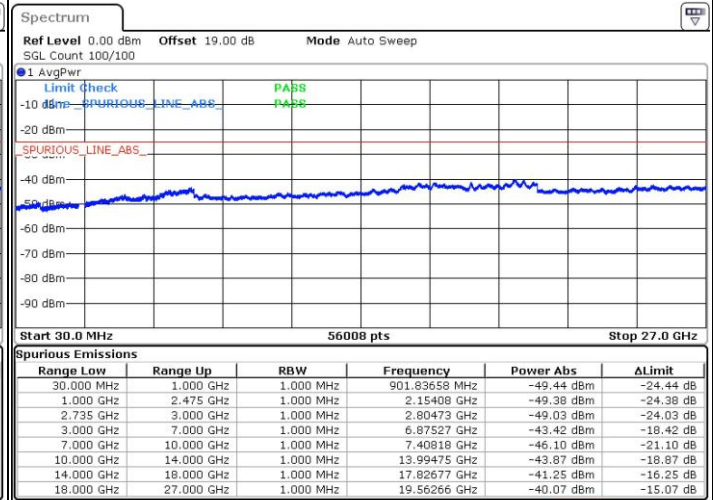
## 64QAM

## Middle Channel / 1RB0 and 1RB99

## Middle Channel / 1RB49 and 1RB0

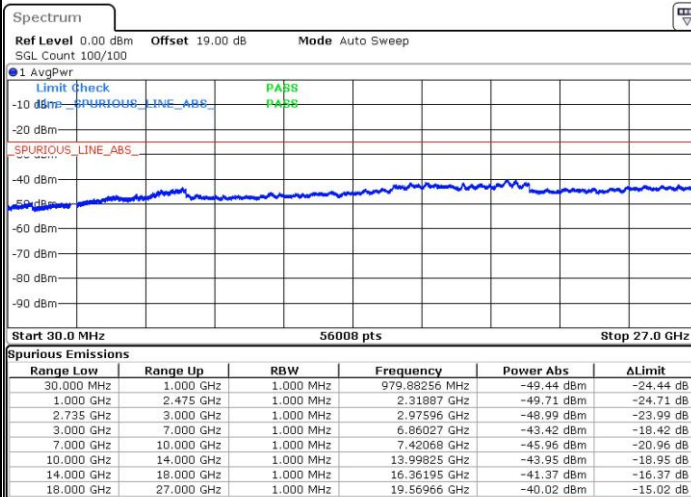


Date: 19 JUL 2019 23:38:27



Date: 19 JUL 2019 23:24:14

## Middle Channel / FullRB



Date: 19 JUL 2019 23:49:18

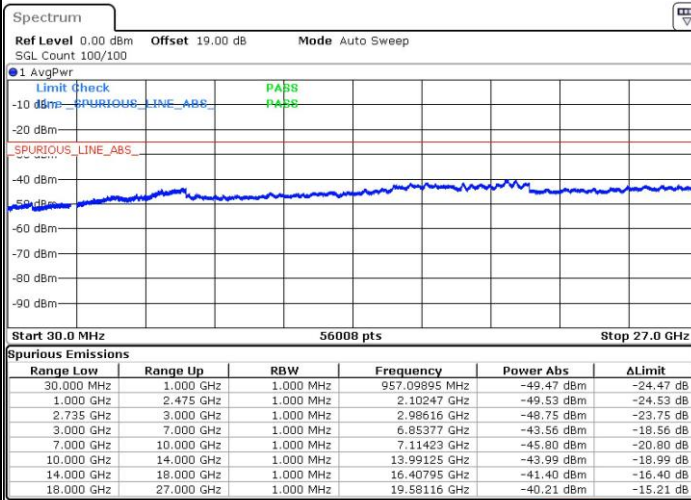


## LTE Band 41C\_CA / 10MHz+20MHz

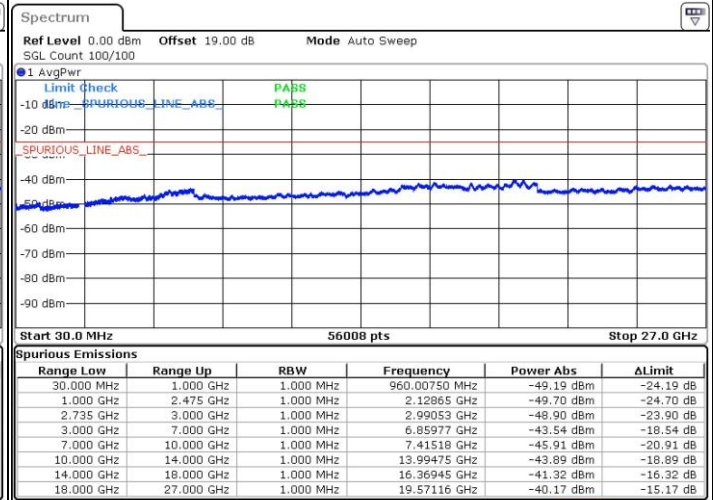
## 64QAM

## Highest Channel / 1RB0 and 1RB99

## Highest Channel / 1RB49 and 1RB0

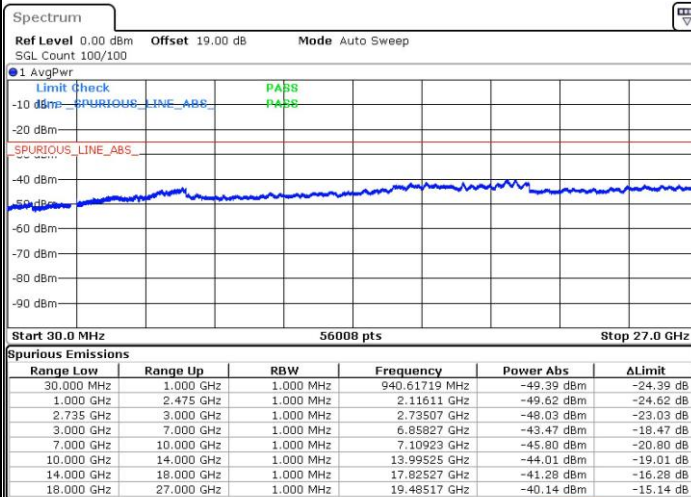


Date: 19 JUL 2019 22:59:38



Date: 19 JUL 2019 23:05:39

## Highest Channel / FullIRB



Date: 19 JUL 2019 22:38:17

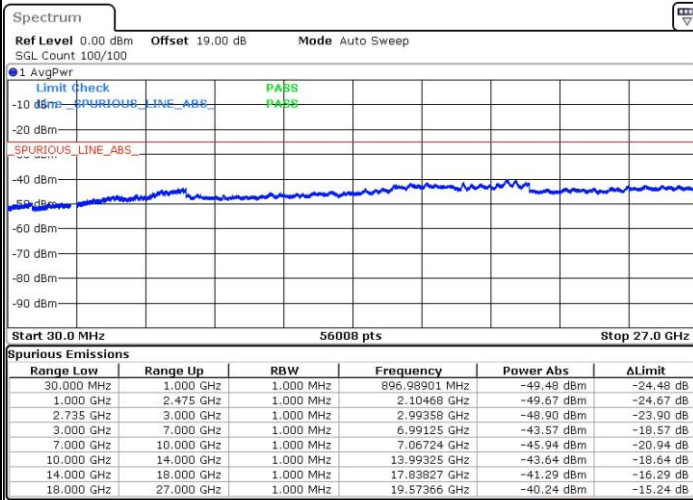


## LTE Band 41C\_CA / 15MHz+10MHz

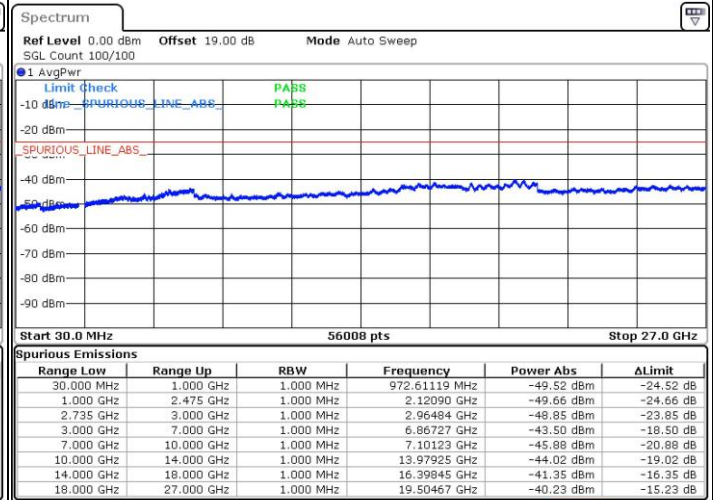
## 64QAM

## Lowest Channel / 1RB0 and 1RB49

## Lowest Channel / 1RB74 and 1RB0

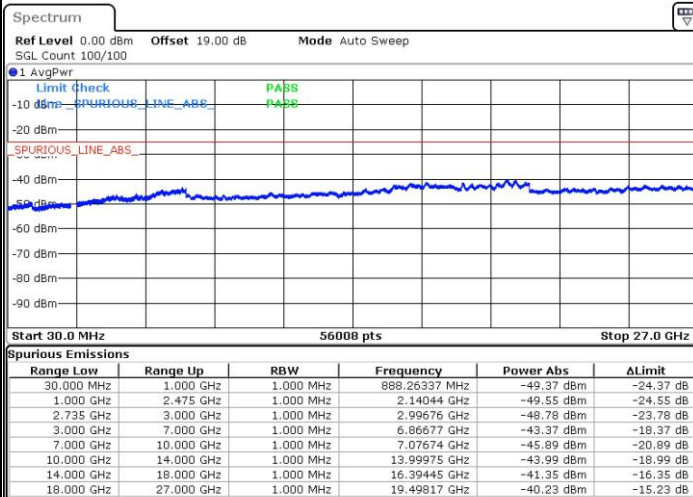


Date: 19.JUL.2019 19:40:10



Date: 19.JUL.2019 19:45:39

## Lowest Channel / FullRB



Date: 19.JUL.2019 19:13:47

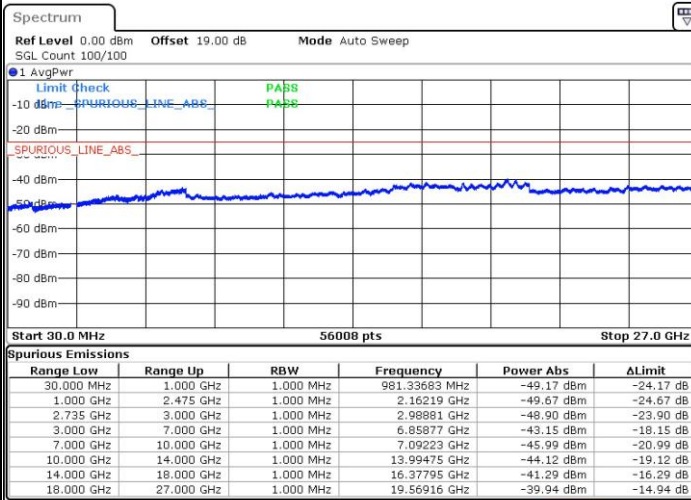


## LTE Band 41C\_CA / 15MHz+10MHz

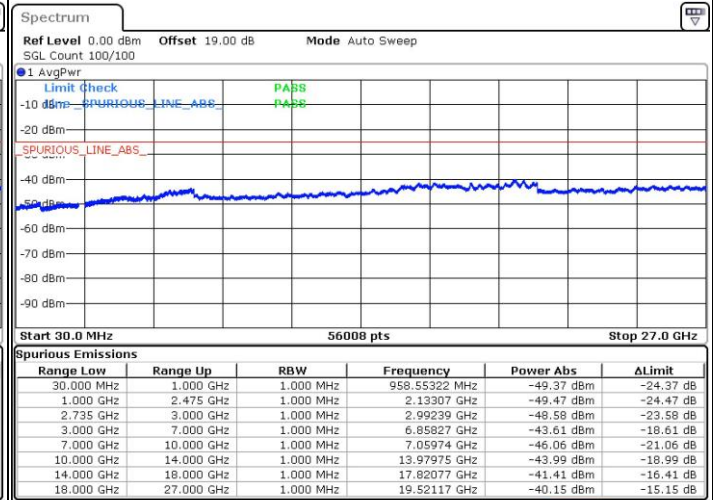
## 64QAM

## Middle Channel / 1RB0 and 1RB49

## Middle Channel / 1RB74 and 1RB0

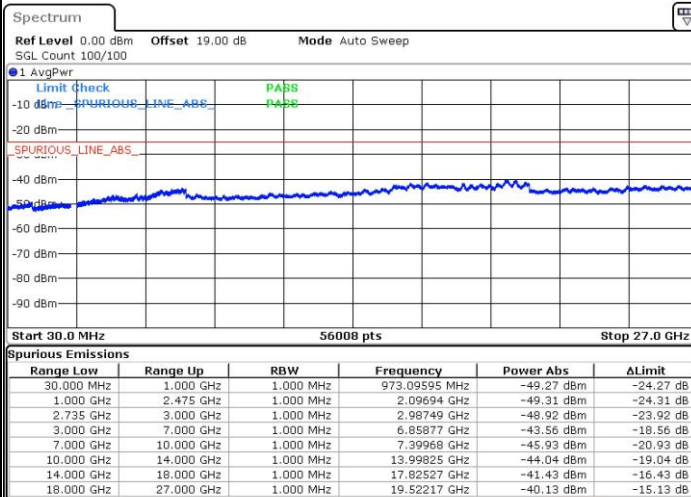


Date: 19.JUL.2019 21:29:56



Date: 19.JUL.2019 21:34:20

## Middle Channel / FullIRB



Date: 19.JUL.2019 20:50:20

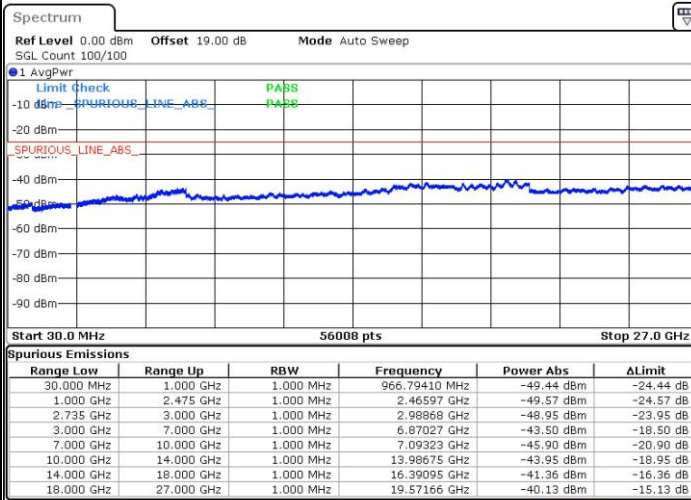


## LTE Band 41C\_CA / 15MHz+10MHz

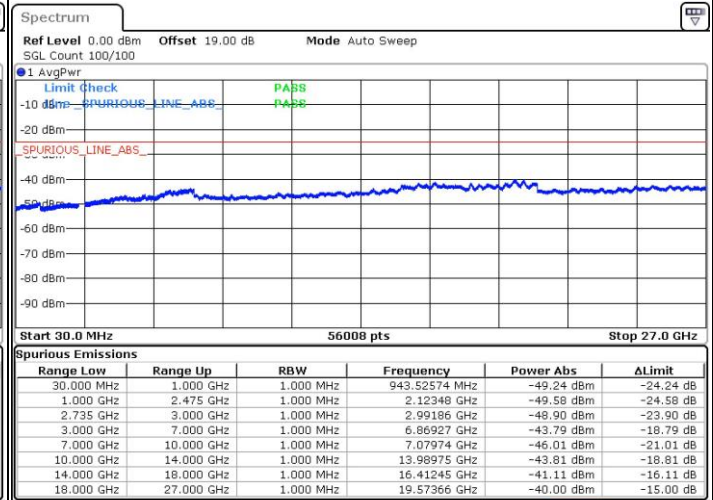
## 64QAM

## Highest Channel / 1RB0 and 1RB49

## Highest Channel / 1RB74 and 1RB0

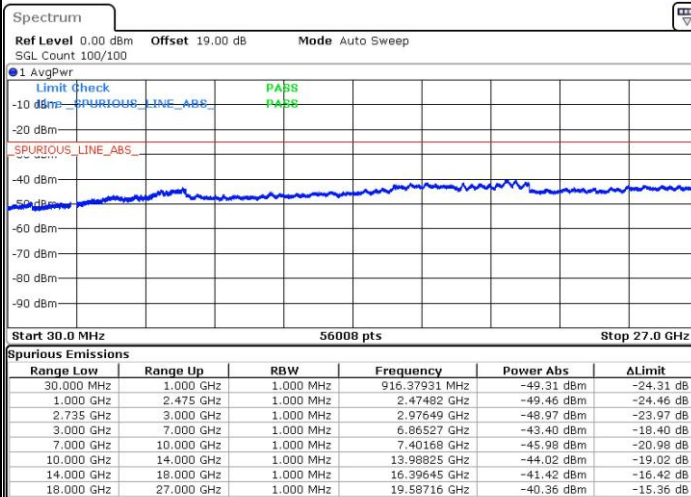


Date: 19 JUL 2019 20:15:08



Date: 19 JUL 2019 20:13:24

## Highest Channel / FullIRB



Date: 19 JUL 2019 20:38:38

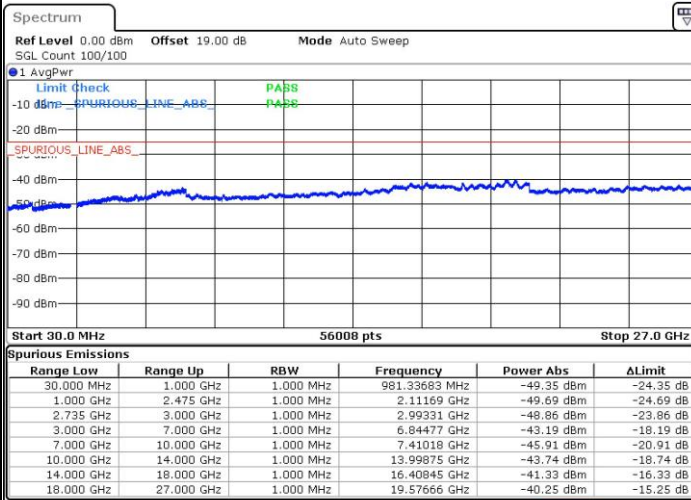


## LTE Band 41C\_CA / 15MHz+15MHz

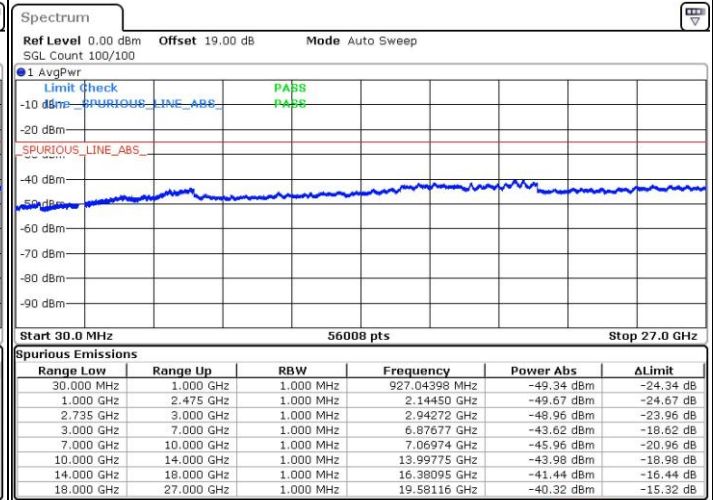
## 64QAM

## Lowest Channel / 1RB0 and 1RB74

## Lowest Channel / 1RB74 and 1RB0

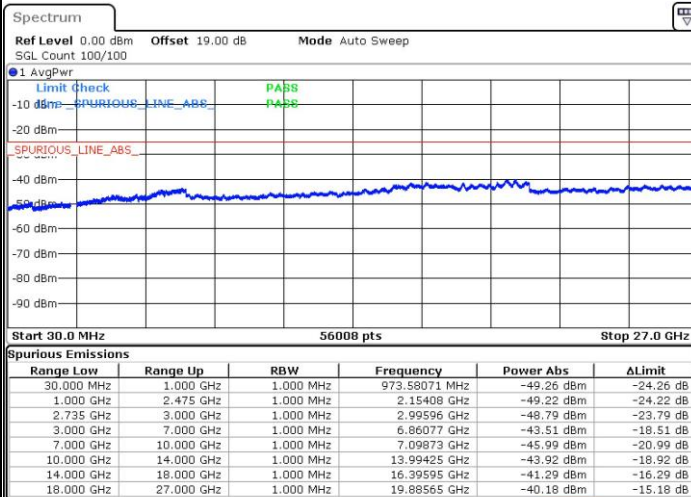


Date: 22 JUL 2019 20:04:48



Date: 22 JUL 2019 20:09:43

## Lowest Channel / FullIRB



Date: 22 JUL 2019 19:36:23

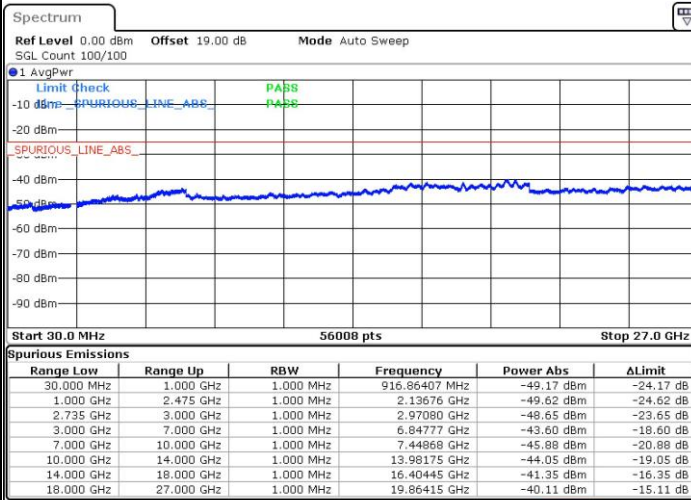


## LTE Band 41C\_CA / 15MHz+15MHz

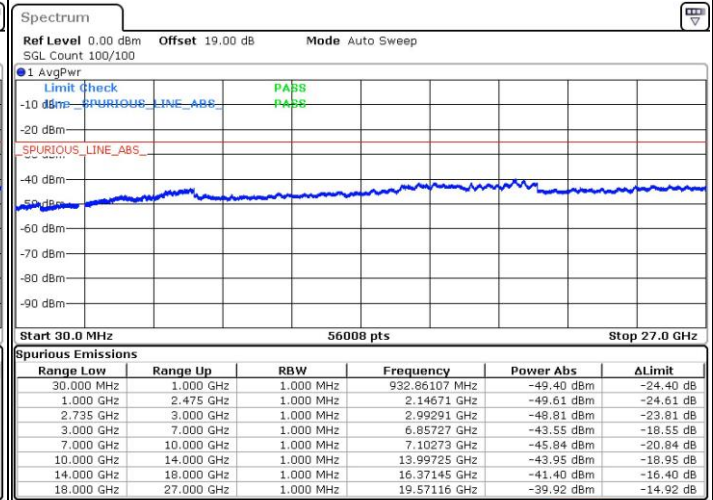
## 64QAM

## Middle Channel / 1RB0 and 1RB74

## Middle Channel / 1RB74 and 1RB0

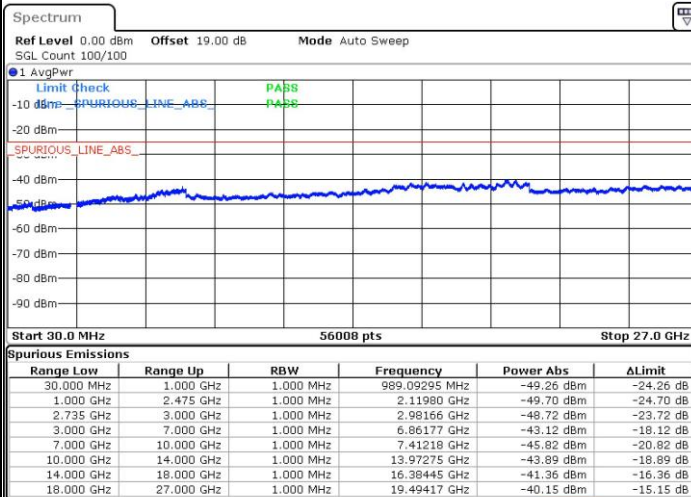


Date: 22 JUL 2019 21:29:48



Date: 22 JUL 2019 21:33:14

## Middle Channel / FullRB



Date: 22 JUL 2019 21:20:47

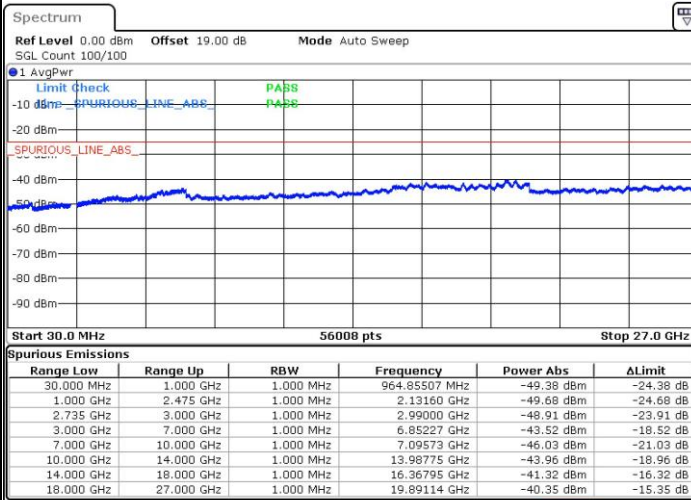


## LTE Band 41C\_CA / 15MHz+15MHz

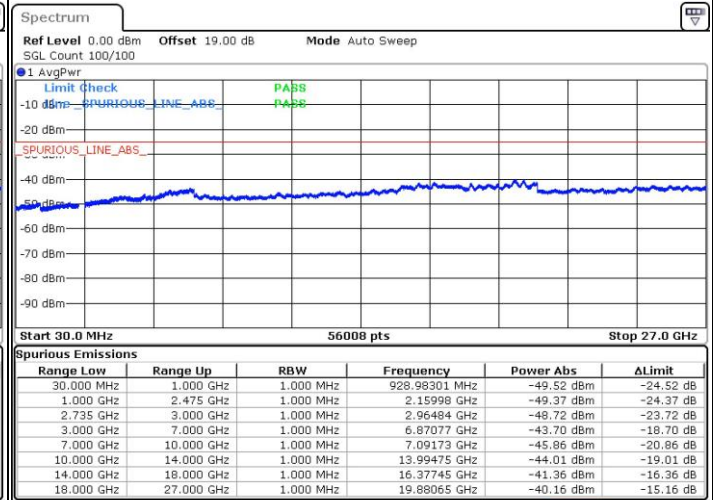
## 64QAM

## Highest Channel / 1RB0 and 1RB74

## Highest Channel / 1RB74 and 1RB0

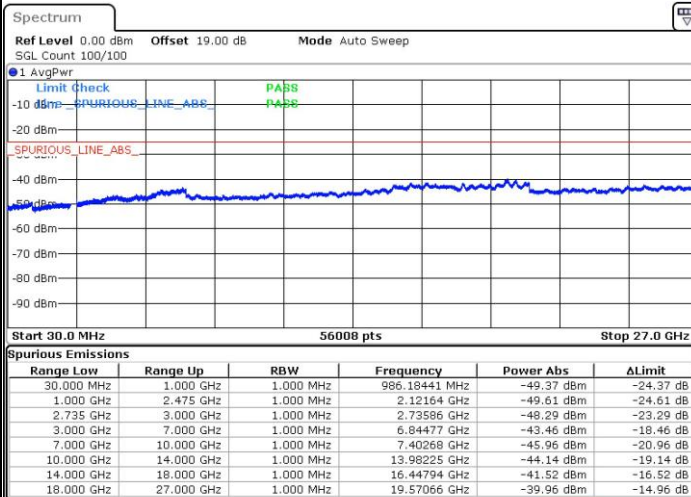


Date: 22 JUL 2019 20:37:39



Date: 22 JUL 2019 20:32:37

## Highest Channel / FullIRB



Date: 22 JUL 2019 21:05:07

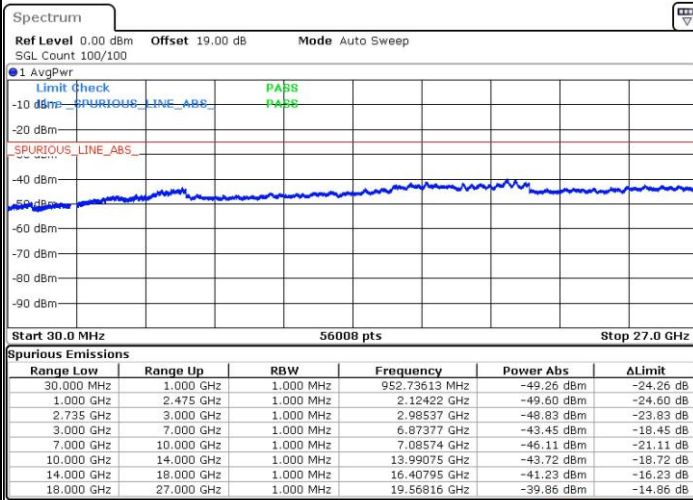


## LTE Band 41C\_CA / 15MHz+20MHz

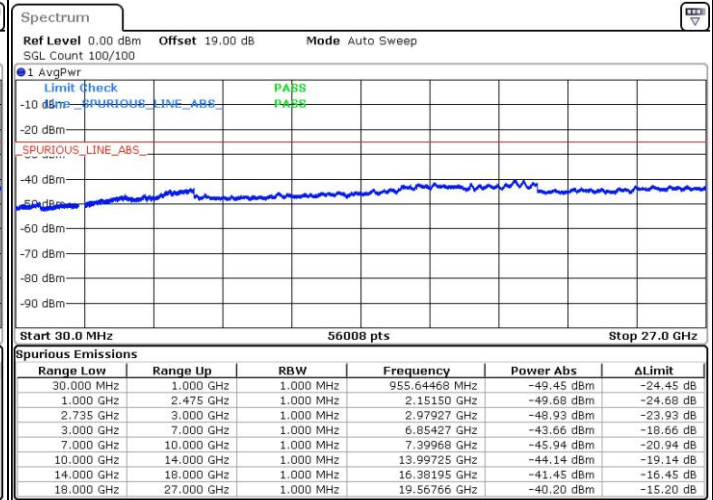
## 64QAM

## Lowest Channel / 1RB0 and 1RB99

## Lowest Channel / 1RB74 and 1RB0

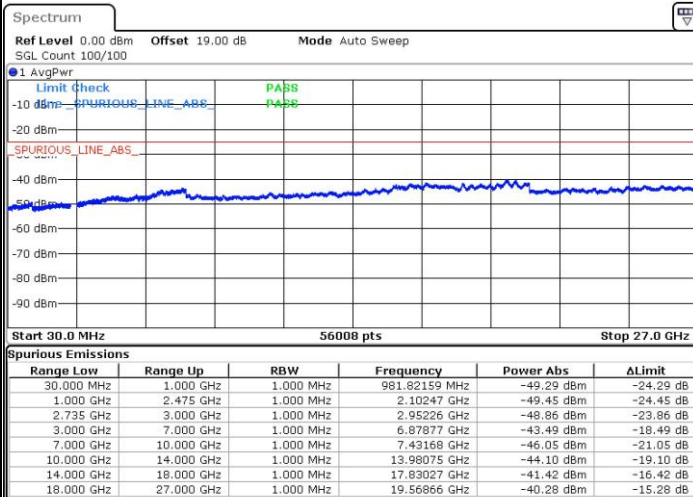


Date: 22 JUL 2019 22:24:33



Date: 22 JUL 2019 22:20:35

## Lowest Channel / FullRB



Date: 22 JUL 2019 22:55:05

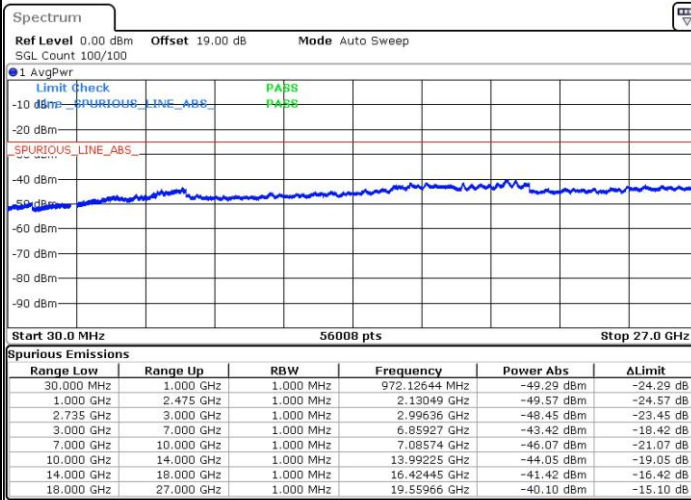


## LTE Band 41C\_CA / 15MHz+20MHz

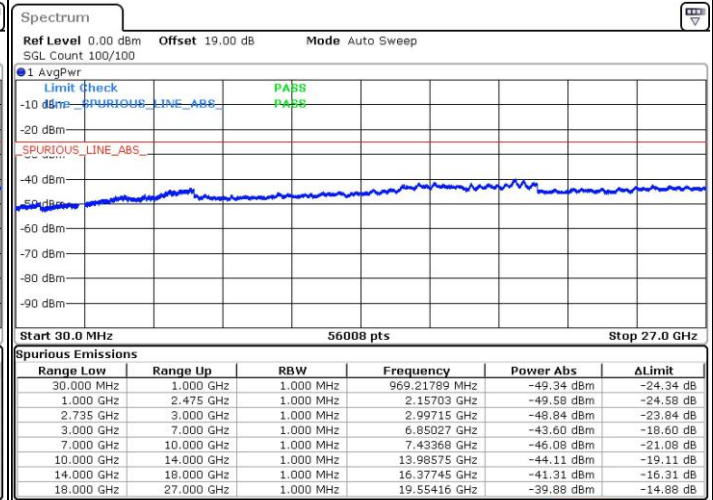
## 64QAM

## Middle Channel / 1RB0 and 1RB99

## Middle Channel / 1RB74 and 1RB0

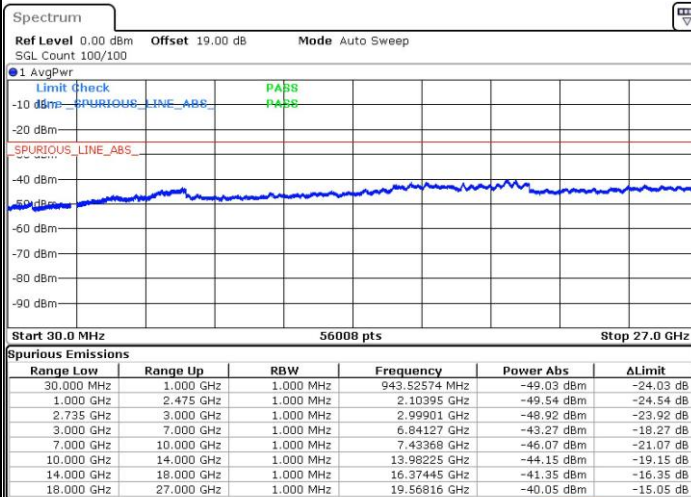


Date: 22 JUL 2019 23:35:10



Date: 22 JUL 2019 23:36:50

## Middle Channel / FullRB



Date: 22 JUL 2019 23:06:34

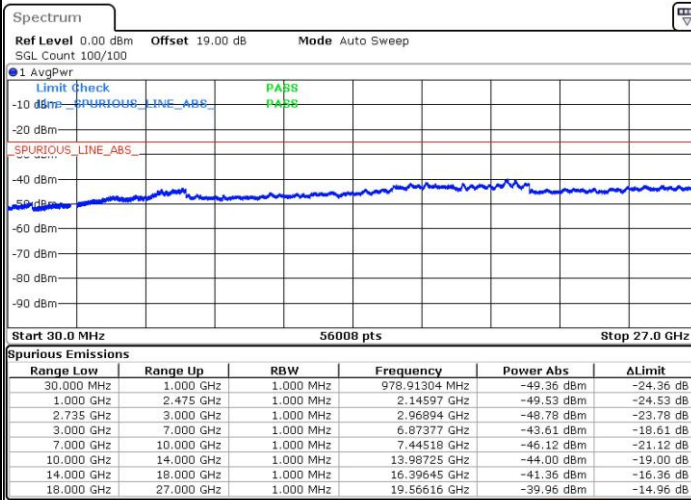


## LTE Band 41C\_CA / 15MHz+20MHz

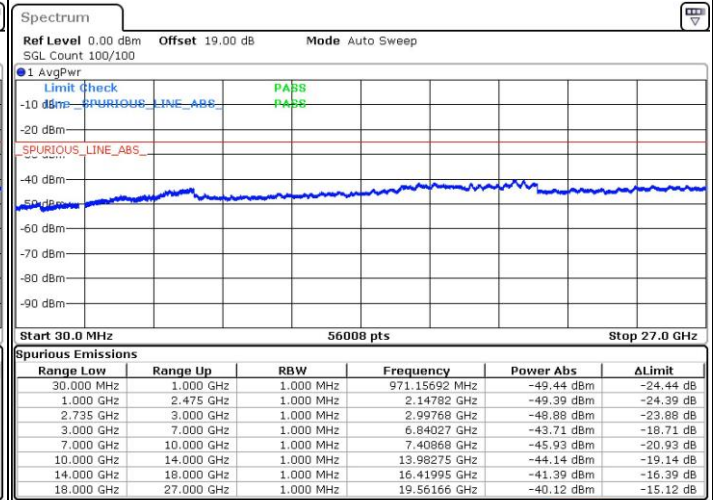
## 64QAM

## Highest Channel / 1RB0 and 1RB99

## Highest Channel / 1RB74 and 1RB0

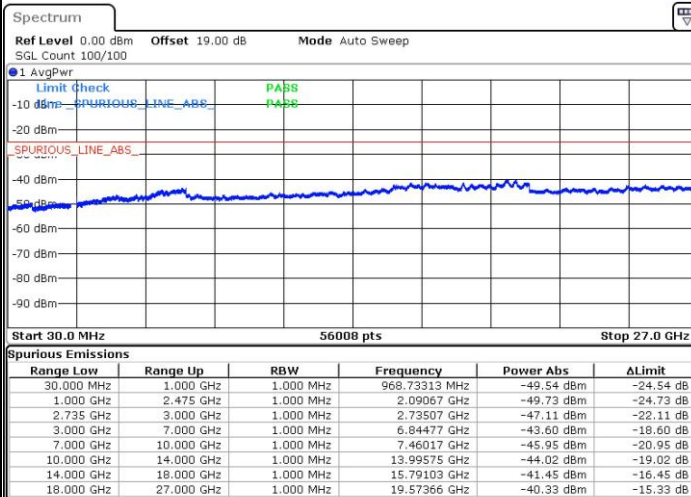


Date: 23 JUL 2019 00:12:08



Date: 23 JUL 2019 00:04:54

## Highest Channel / FullIRB



Date: 23 JUL 2019 01:03:20

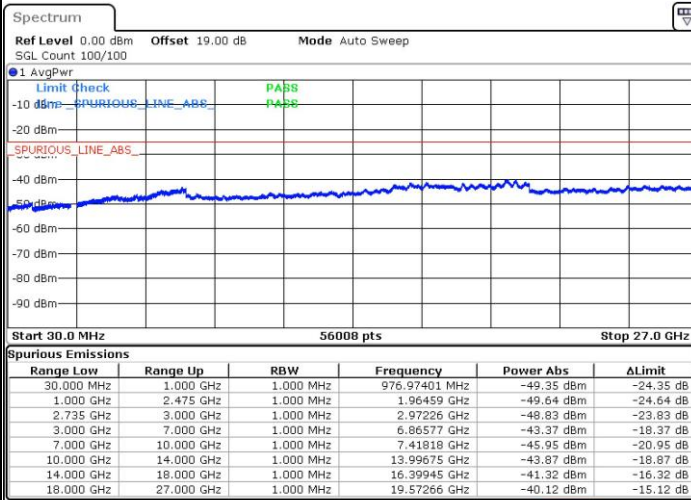


## LTE Band 41C\_CA / 20MHz+5MHz

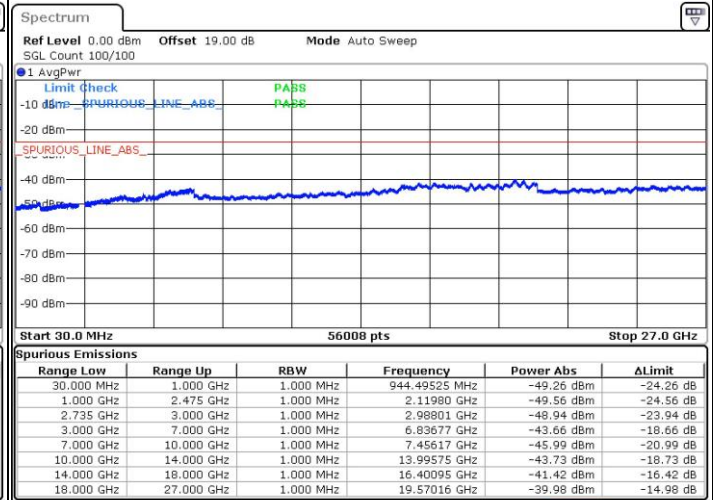
## 64QAM

## Lowest Channel / 1RB0 and 1RB24

## Lowest Channel / 1RB99 and 1RB0

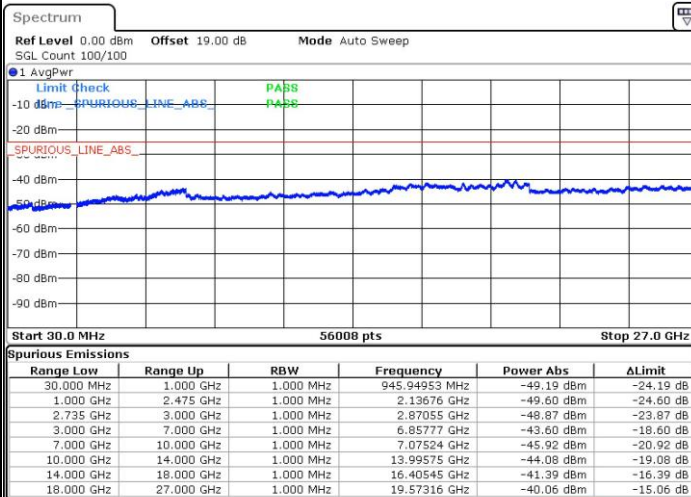


Date: 18 JUL 2019 21:08:33



Date: 18 JUL 2019 21:08:07

## Lowest Channel / FullIRB



Date: 18 JUL 2019 20:57:49

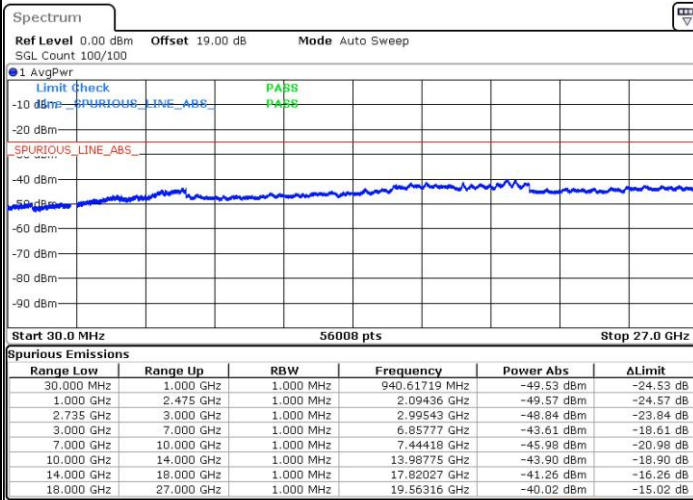


## LTE Band 41C\_CA / 20MHz+5MHz

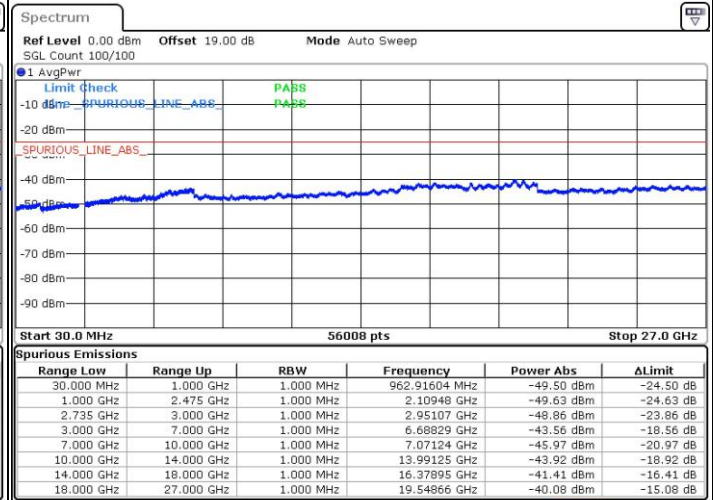
## 64QAM

## Middle Channel / 1RB0 and 1RB24

## Middle Channel / 1RB99 and 1RB0

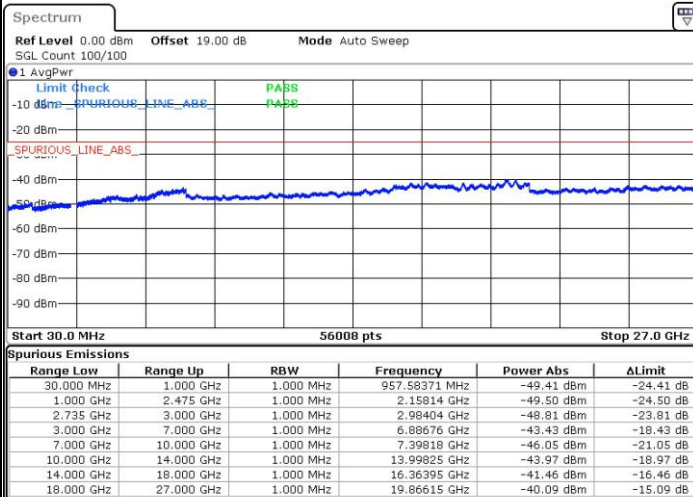


Date: 18 JUL 2019 21:29:12



Date: 18 JUL 2019 21:27:46

## Middle Channel / FullIRB



Date: 18 JUL 2019 21:35:28

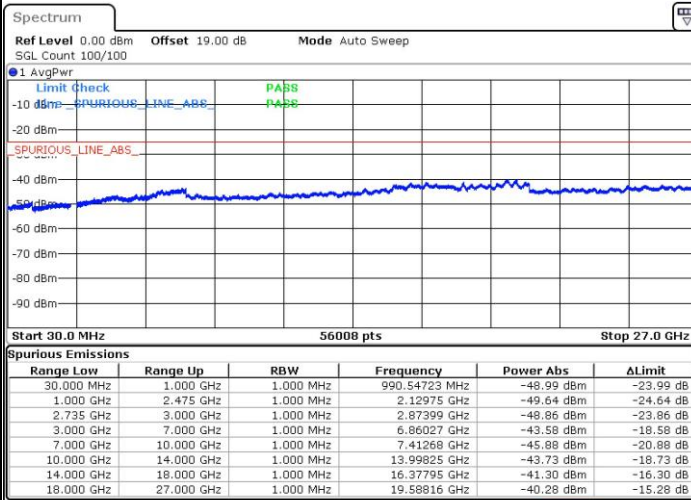


## LTE Band 41C\_CA / 20MHz+5MHz

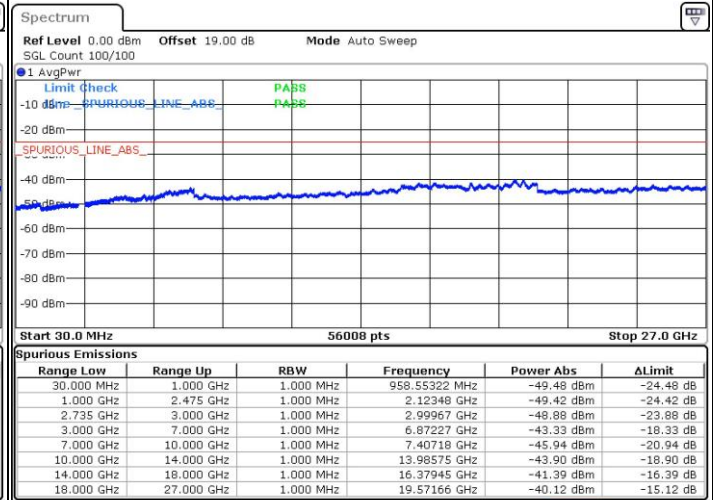
## 64QAM

## Highest Channel / 1RB0 and 1RB24

## Highest Channel / 1RB99 and 1RB0

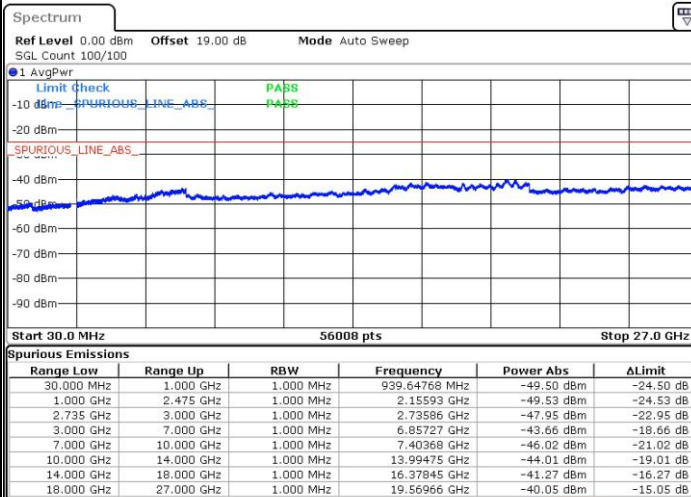


Date: 18 JUL 2019 21:58:55



Date: 18 JUL 2019 21:58:38

## Highest Channel / FullIRB



Date: 18 JUL 2019 21:48:31

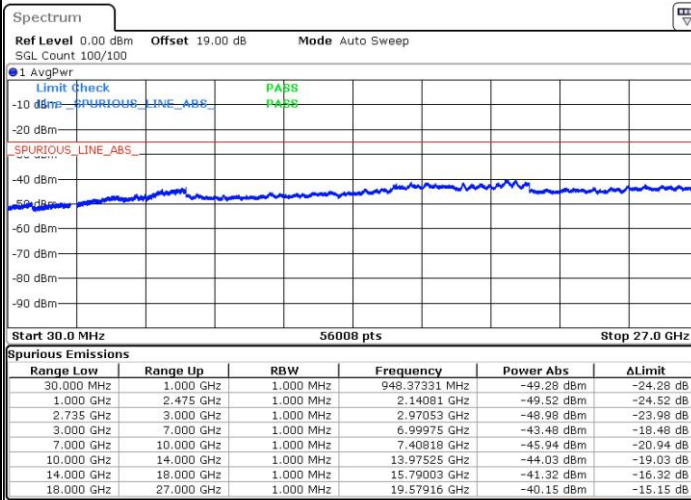


## LTE Band 41C\_CA / 20MHz+10MHz

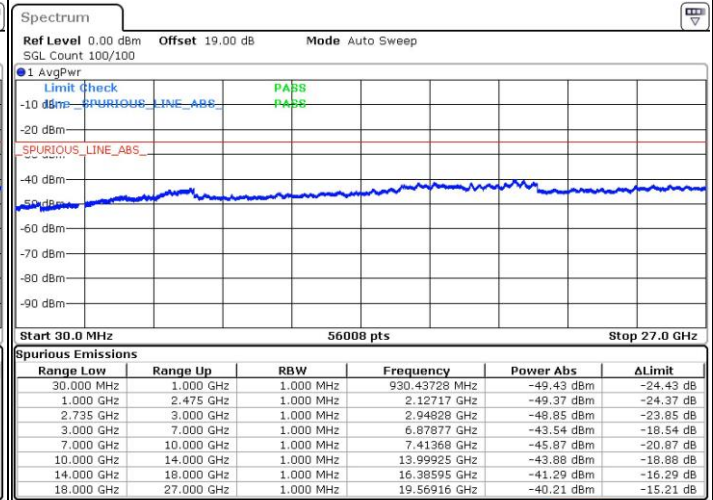
## 64QAM

## Lowest Channel / 1RB0 and 1RB49

## Lowest Channel / 1RB99 and 1RB0

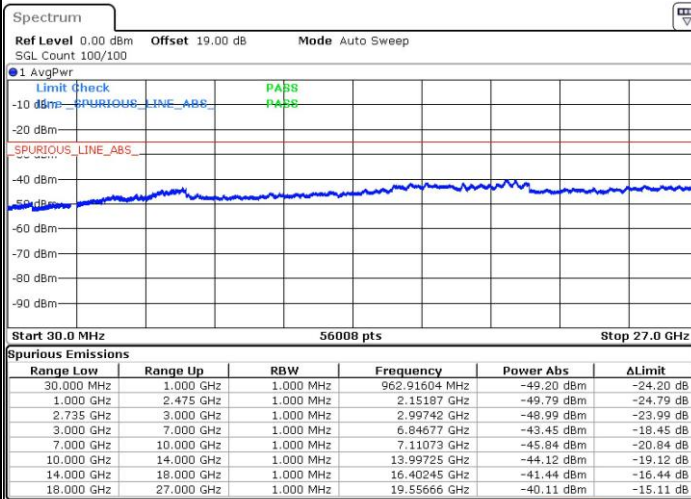


Date: 20 JUL 2019 00:24:26



Date: 20 JUL 2019 00:28:53

## Lowest Channel / FullIRB



Date: 20 JUL 2019 00:11:31

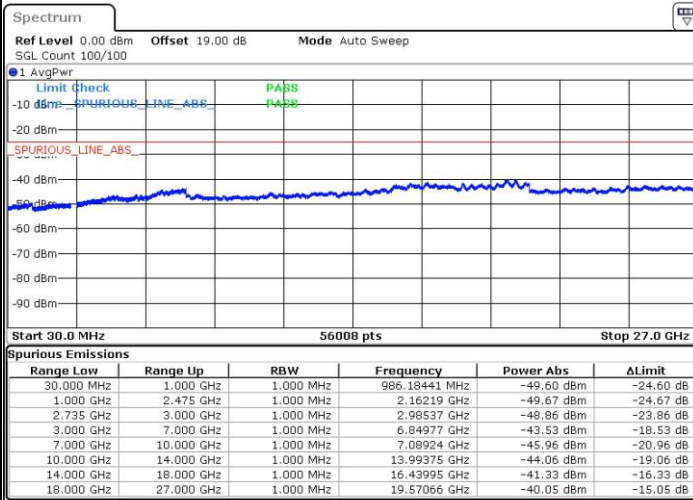


## LTE Band 41C\_CA / 20MHz+10MHz

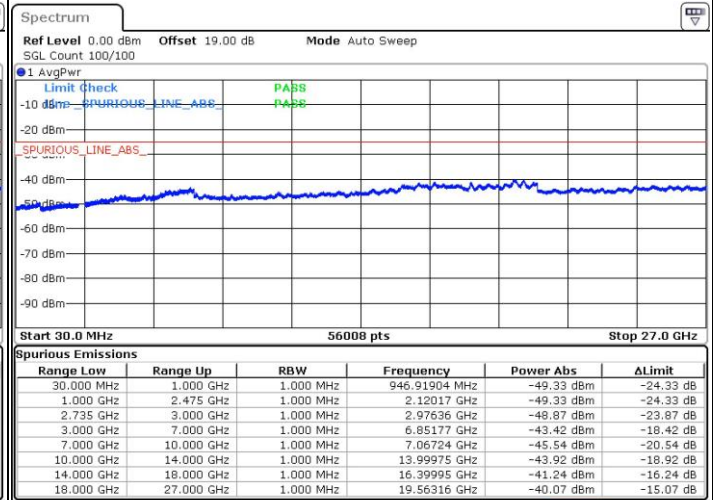
## 64QAM

## Middle Channel / 1RB0 and 1RB49

## Middle Channel / 1RB99 and 1RB0

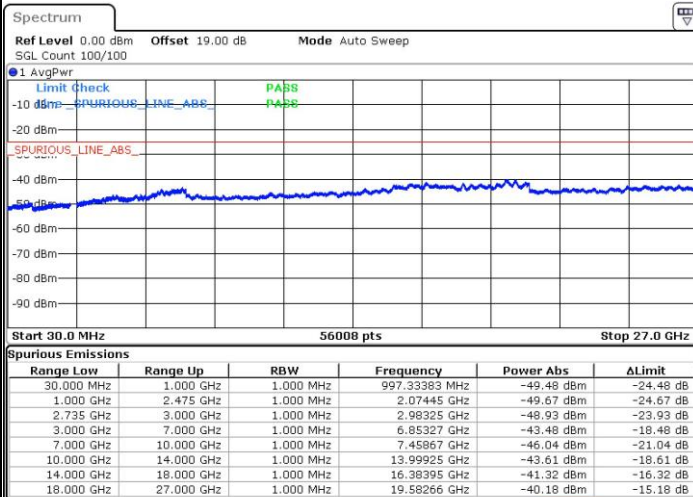


Date: 20 JUL 2019 01:41:39



Date: 20 JUL 2019 01:49:01

## Middle Channel / FullIRB



Date: 20 JUL 2019 01:32:57

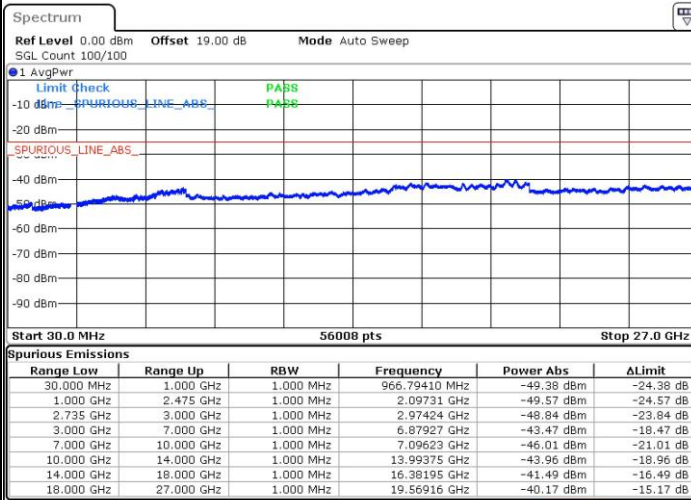


## LTE Band 41C\_CA / 20MHz+10MHz

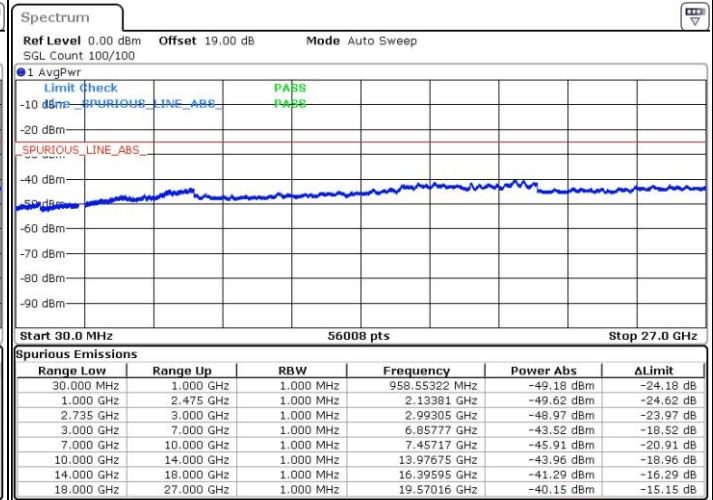
## 64QAM

## Highest Channel / 1RB0 and 1RB49

## Highest Channel / 1RB99 and 1RB0

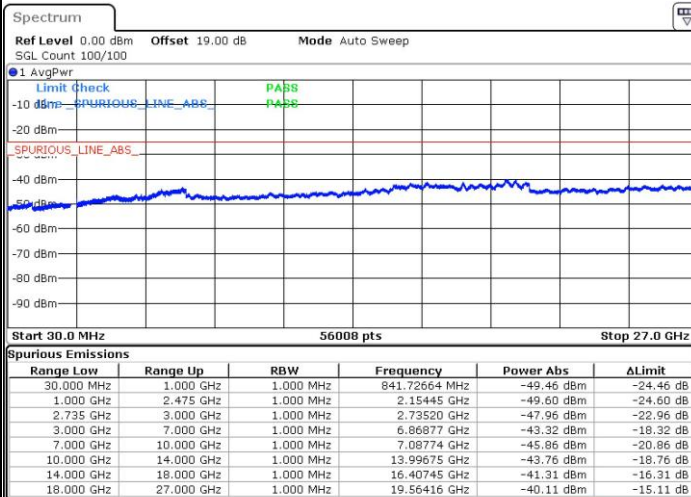


Date: 20 JUL 2019 00:49:53



Date: 20 JUL 2019 00:46:50

## Highest Channel / FullIRB



Date: 20 JUL 2019 01:23:22

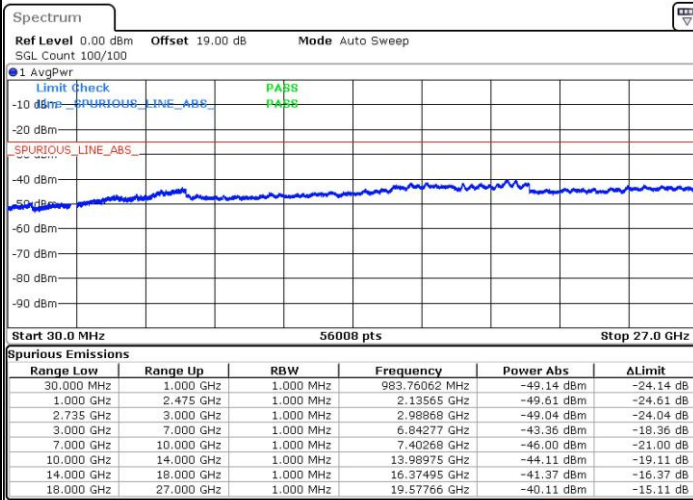


## LTE Band 41C\_CA / 20MHz+15MHz

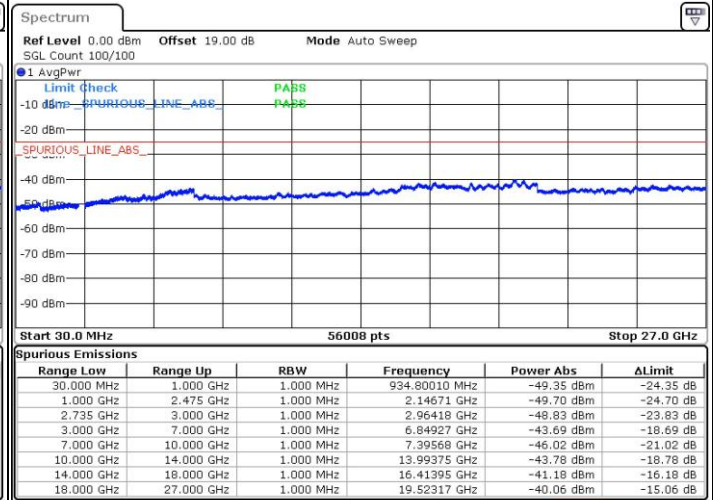
## 64QAM

## Lowest Channel / 1RB0 and 1RB74

## Lowest Channel / 1RB99 and 1RB0

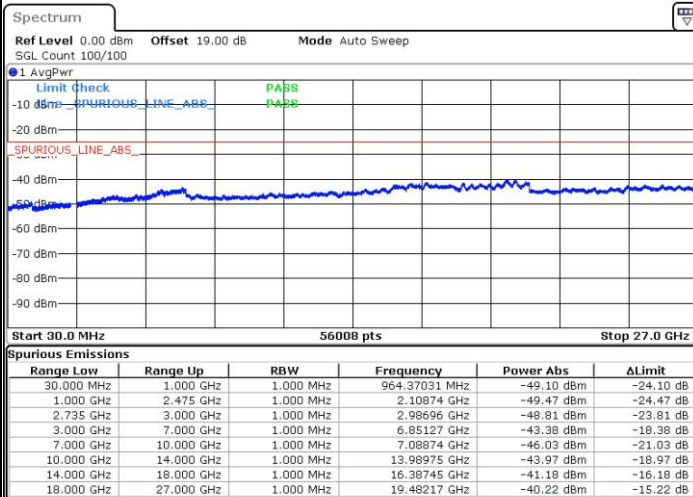


Date: 27.JUL.2019 20:31:22



Date: 27.JUL.2019 20:32:55

## Lowest Channel / FullIRB



Date: 27.JUL.2019 19:53:02

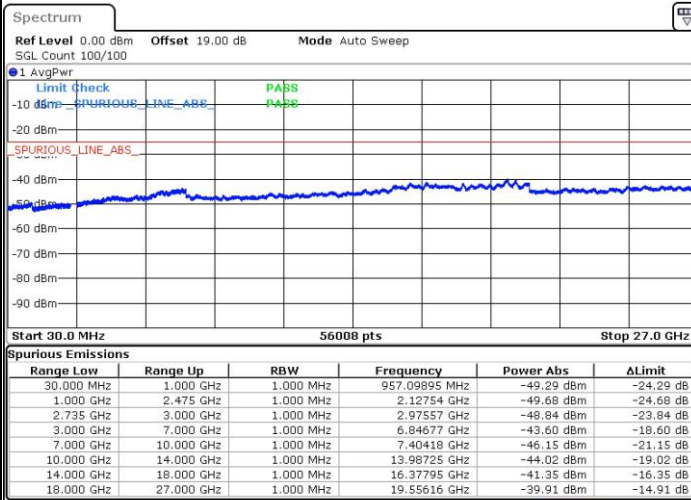


## LTE Band 41C\_CA / 20MHz+15MHz

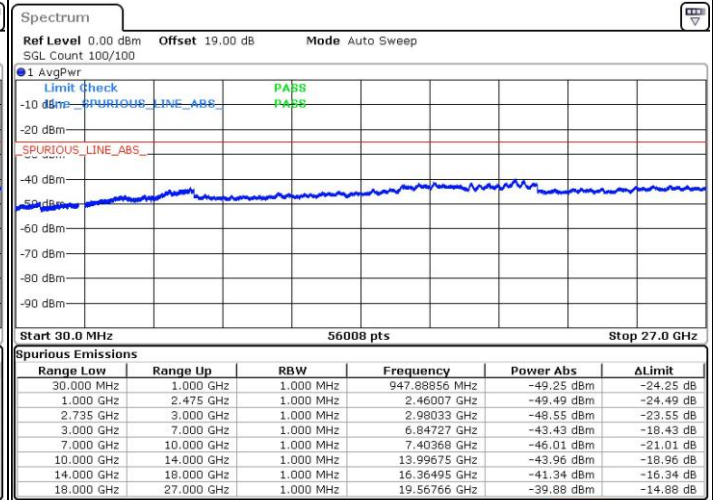
## 64QAM

## Middle Channel / 1RB0 and 1RB74

## Middle Channel / 1RB99 and 1RB0

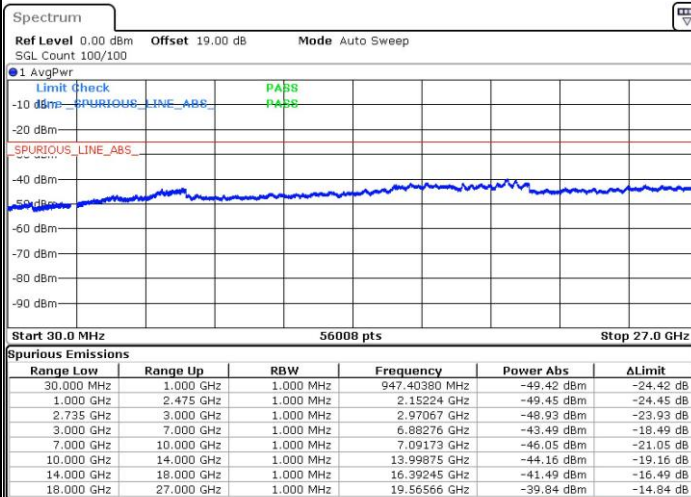


Date: 27.JUL.2019 20:43:23



Date: 27.JUL.2019 20:42:15

## Middle Channel / FullIRB



Date: 27.JUL.2019 20:51:56

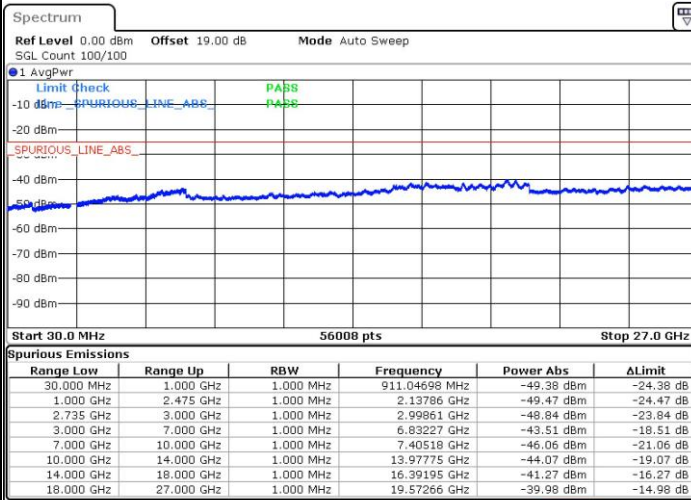


## LTE Band 41C\_CA / 20MHz+15MHz

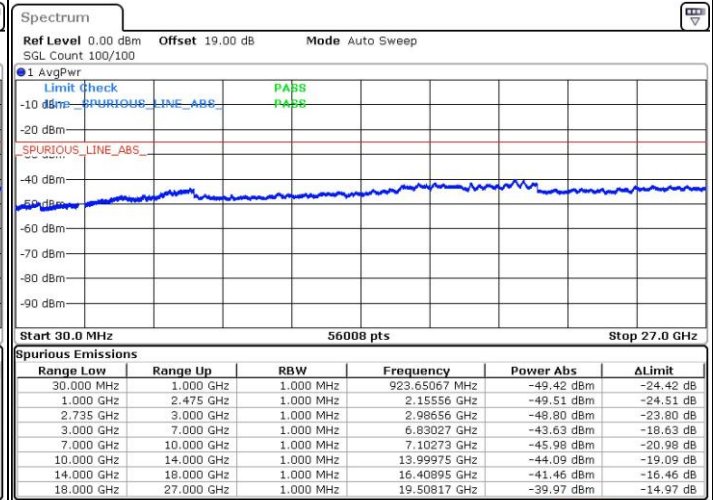
## 64QAM

## Highest Channel / 1RB0 and 1RB74

## Highest Channel / 1RB99 and 1RB0

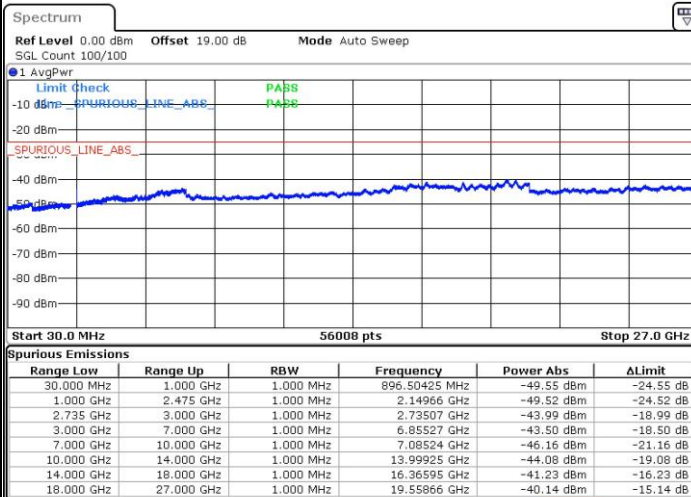


Date: 27.JUL.2019 21:11:45



Date: 27.JUL.2019 21:13:25

## Highest Channel / FullRB



Date: 27.JUL.2019 20:59:32

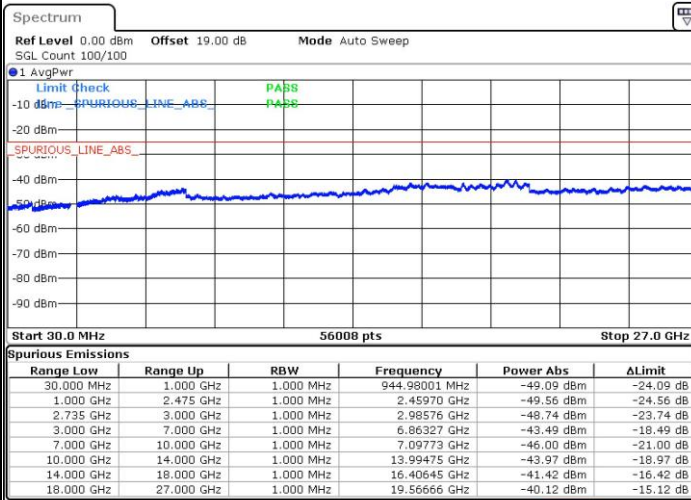


## LTE Band 41C\_CA / 20MHz+20MHz

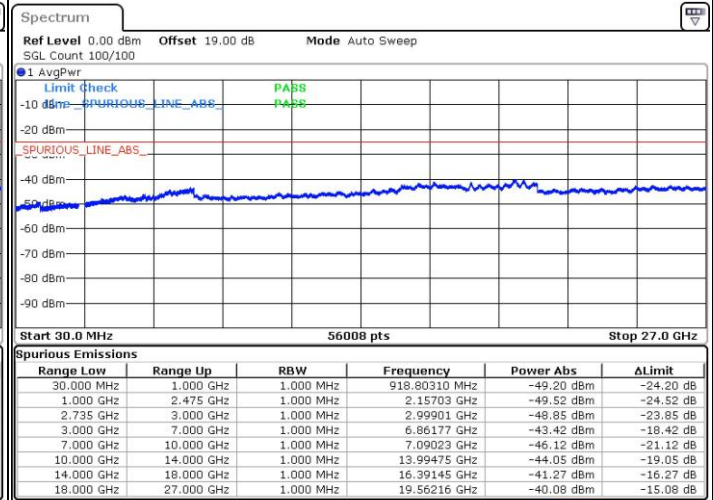
## 64QAM

## Lowest Channel / 1RB0 and 1RB99

## Lowest Channel / 1RB99 and 1RB0

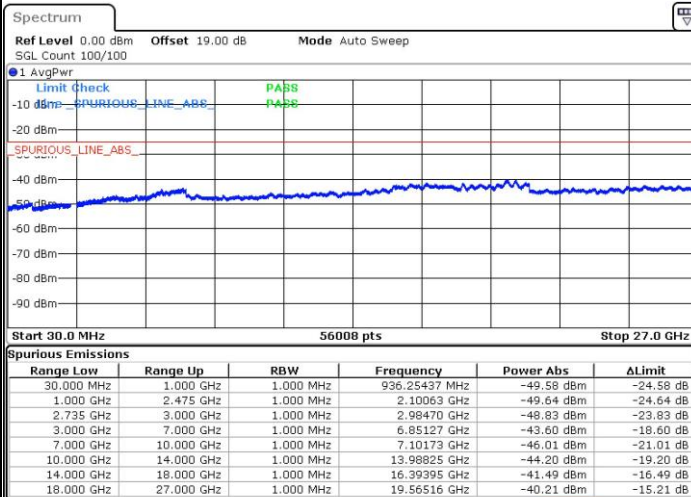


Date: 27.JUL.2019 21:57:33



Date: 27.JUL.2019 22:20:09

## Lowest Channel / FullIRB



Date: 27.JUL.2019 21:55:23

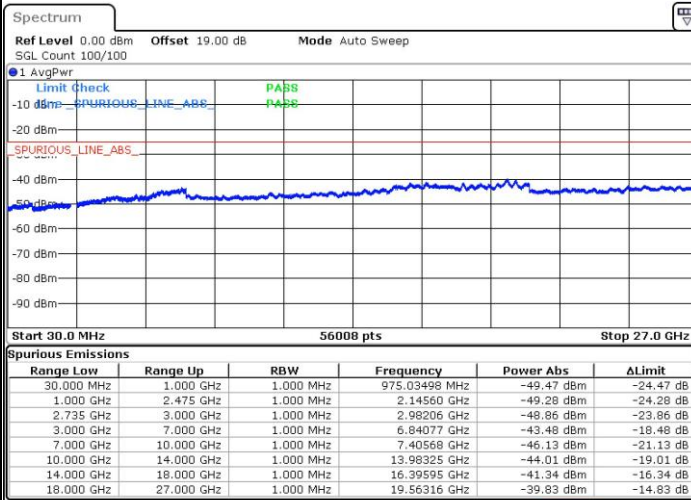


## LTE Band 41C\_CA / 20MHz+20MHz

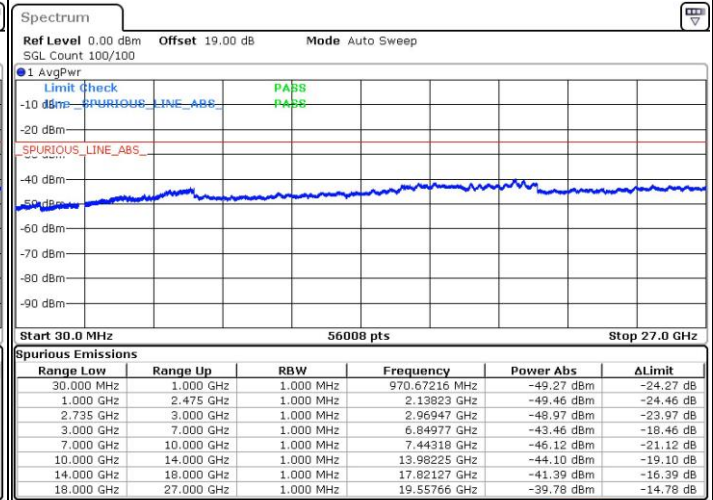
## 64QAM

## MiddleChannel / 1RB0 and 1RB99

## Middle Channel / 1RB99 and 1RB0

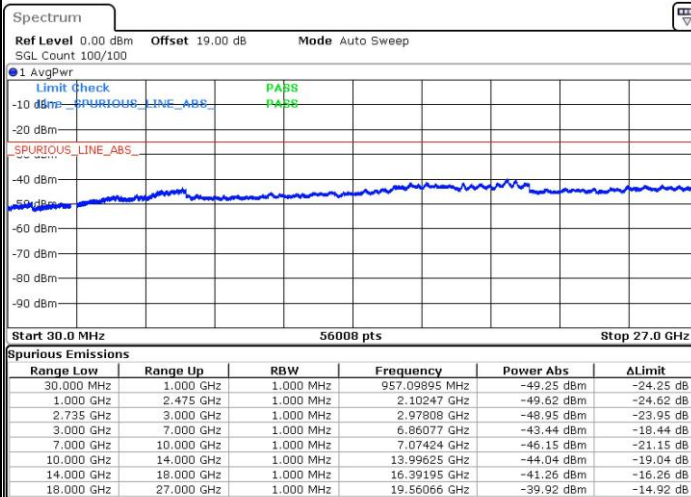


Date: 27.JUL.2019 22:28:58



Date: 27.JUL.2019 22:27:22

## Middle Channel / FullIRB



Date: 27.JUL.2019 22:37:31

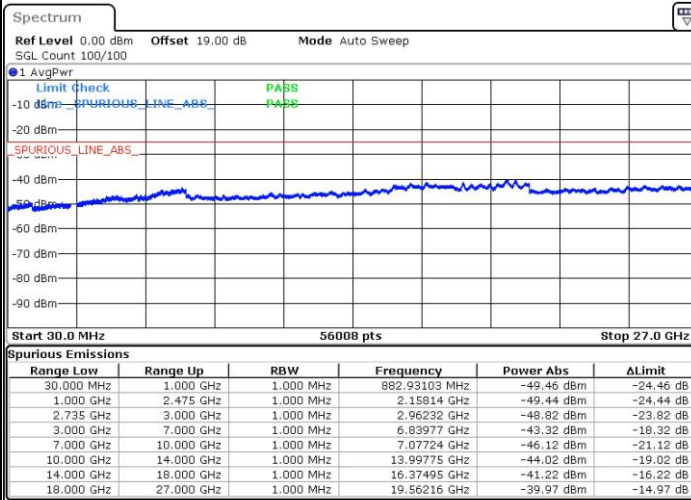


## LTE Band 41C\_CA / 20MHz+20MHz

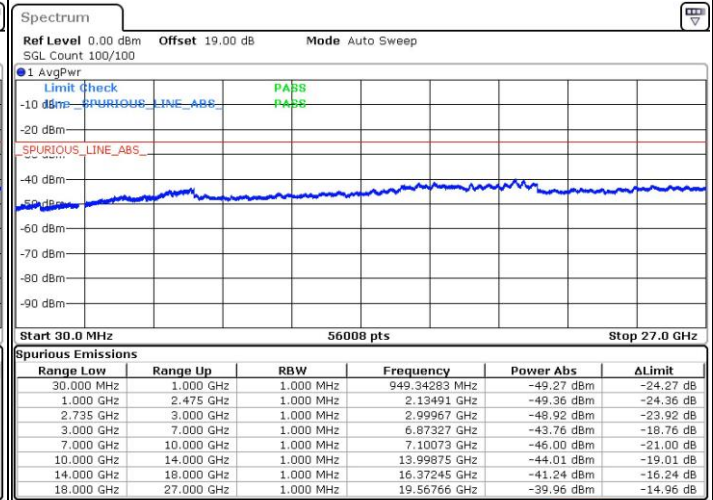
## 64QAM

## Highest Channel / 1RB0 and 1RB99

## Highest Channel / 1RB99 and 1RB0

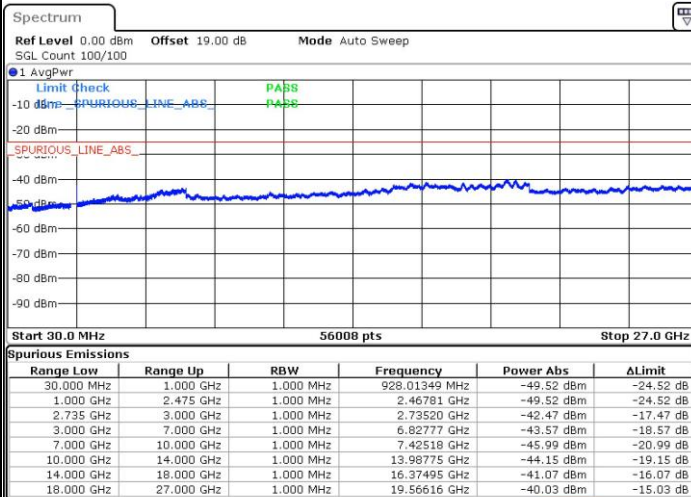


Date: 27.JUL.2019 23:01:28



Date: 27.JUL.2019 23:06:06

## Highest Channel / FullIRB



Date: 27.JUL.2019 22:49:57

**Frequency Stability**

| Test Conditions  |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0051                             | PASS    |
| 40               | Normal Voltage    | 0.0014                             |         |
| 30               | Normal Voltage    | 0.0002                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0003                             |         |
| 0                | Normal Voltage    | 0.0002                             |         |
| -10              | Normal Voltage    | 0.0024                             |         |
| -20              | Normal Voltage    | 0.0025                             |         |
| -30              | Normal Voltage    | 0.0028                             |         |
| 20               | Maximum Voltage   | 0.0023                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0056                             |         |

**Note:**

1. Normal Voltage =3.87 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions     |                   | LTE Band 38 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                            | Note 2. |
|                     |                   | Deviation<br>(ppm)                  | Result  |
| 50                  | Normal Voltage    | 0.0003                              | PASS    |
| 40                  | Normal Voltage    | 0.0001                              |         |
| 30                  | Normal Voltage    | 0.0002                              |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                              |         |
| 10                  | Normal Voltage    | 0.0001                              |         |
| 0                   | Normal Voltage    | 0.0005                              |         |
| -10                 | Normal Voltage    | 0.0010                              |         |
| -20                 | Normal Voltage    | 0.0002                              |         |
| -30                 | Normal Voltage    | 0.0007                              |         |
| 20                  | Maximum Voltage   | 0.0005                              |         |
| 20                  | Normal Voltage    | 0.0000                              |         |
| 20                  | Battery End Point | 0.0004                              |         |

**Note:**

1. Normal Voltage =3.87 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 41 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0007                              | PASS    |
| 40               | Normal Voltage    | 0.0013                              |         |
| 30               | Normal Voltage    | 0.0009                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0006                              |         |
| 0                | Normal Voltage    | 0.0008                              |         |
| -10              | Normal Voltage    | 0.0002                              |         |
| -20              | Normal Voltage    | 0.0011                              |         |
| -30              | Normal Voltage    | 0.0005                              |         |
| 20               | Maximum Voltage   | 0.0010                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0002                              |         |

**Note:**

1. Normal Voltage =3.87 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

#### Top Antenna:

| LTE Band 7 / 5MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 5000.68              | -61.91          | -25              | -36.91                  | -81.83                  | -67.47                   | 7.12                       | 12.68                       | H                     |
|                          | 7501.02              | -44.33          | -25              | -19.33                  | -70.75                  | -47.66                   | 8.26                       | 11.59                       | H                     |
|                          | 10001.36             | -52.98          | -25              | -27.98                  | -83.18                  | -54.51                   | 10.45                      | 11.98                       | H                     |
|                          | 5000.68              | -61.65          | -25              | -36.65                  | -81.97                  | -67.21                   | 7.12                       | 12.68                       | V                     |
|                          | 7501.02              | -52.31          | -25              | -27.31                  | -78.49                  | -55.64                   | 8.26                       | 11.59                       | V                     |
|                          | 10001.36             | -54.16          | -25              | -29.16                  | -83.41                  | -55.69                   | 10.45                      | 11.98                       | V                     |
| Middle                   | 5065.68              | -61.92          | -25              | -36.92                  | -81.92                  | -67.48                   | 7.14                       | 12.70                       | H                     |
|                          | 7598.52              | -47.90          | -25              | -22.90                  | -73.90                  | -51.20                   | 8.30                       | 11.60                       | H                     |
|                          | 10131.36             | -52.70          | -25              | -27.70                  | -82.92                  | -54.22                   | 10.48                      | 12.00                       | H                     |
|                          | 5065.68              | -61.27          | -25              | -36.27                  | -81.69                  | -66.83                   | 7.14                       | 12.70                       | V                     |
|                          | 7598.52              | -54.66          | -25              | -29.66                  | -80.53                  | -57.96                   | 8.30                       | 11.60                       | V                     |
|                          | 10131.36             | -53.86          | -25              | -28.86                  | -83.36                  | -55.38                   | 10.48                      | 12.00                       | V                     |
| Highest                  | 5130.68              | -62.06          | -25              | -37.06                  | -82.15                  | -67.62                   | 7.16                       | 12.72                       | H                     |
|                          | 7696.02              | -51.21          | -25              | -26.21                  | -77.24                  | -54.51                   | 8.33                       | 11.63                       | H                     |
|                          | 10261.36             | -52.73          | -25              | -27.73                  | -82.99                  | -54.33                   | 10.50                      | 12.10                       | H                     |
|                          | 5130.68              | -61.32          | -25              | -36.32                  | -81.84                  | -66.88                   | 7.16                       | 12.72                       | V                     |
|                          | 7696.02              | -54.92          | -25              | -29.92                  | -80.78                  | -58.22                   | 8.33                       | 11.63                       | V                     |
|                          | 10261.36             | -53.26          | -25              | -28.26                  | -83.03                  | -54.86                   | 10.50                      | 12.10                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 7 / 10MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 5001.18              | -61.93          | -25              | -36.93                  | -81.85                  | -67.49                   | 7.12                       | 12.68                       | H                     |
|                           | 7501.77              | -43.89          | -25              | -18.89                  | -70.31                  | -47.22                   | 8.26                       | 11.59                       | H                     |
|                           | 10002.36             | -53.28          | -25              | -28.28                  | -83.49                  | -54.81                   | 10.45                      | 11.98                       | H                     |
|                           | 5001.18              | -61.80          | -25              | -36.80                  | -82.12                  | -67.36                   | 7.12                       | 12.68                       | V                     |
|                           | 7501.77              | -51.47          | -25              | -26.47                  | -77.65                  | -54.80                   | 8.26                       | 11.59                       | V                     |
|                           | 10002.36             | -53.96          | -25              | -28.96                  | -83.25                  | -55.49                   | 10.45                      | 11.98                       | V                     |
| Middle                    | 5061.18              | -61.94          | -25              | -36.94                  | -81.94                  | -67.50                   | 7.14                       | 12.70                       | H                     |
|                           | 7591.77              | -47.62          | -25              | -22.62                  | -73.62                  | -50.92                   | 8.30                       | 11.60                       | H                     |
|                           | 10122.36             | -53.24          | -25              | -28.24                  | -83.46                  | -54.76                   | 10.48                      | 12.00                       | H                     |
|                           | 5061.18              | -61.33          | -25              | -36.33                  | -81.75                  | -66.89                   | 7.14                       | 12.70                       | V                     |
|                           | 7591.77              | -54.14          | -25              | -29.14                  | -80.01                  | -57.44                   | 8.30                       | 11.60                       | V                     |
|                           | 10122.36             | -53.78          | -25              | -28.78                  | -83.28                  | -55.30                   | 10.48                      | 12.00                       | V                     |
| Highest                   | 5121.18              | -61.78          | -25              | -36.78                  | -81.85                  | -67.34                   | 7.16                       | 12.72                       | H                     |
|                           | 7681.77              | -49.77          | -25              | -24.77                  | -75.80                  | -53.07                   | 8.33                       | 11.63                       | H                     |
|                           | 10242.36             | -52.77          | -25              | -27.77                  | -83.03                  | -54.37                   | 10.50                      | 12.10                       | H                     |
|                           | 5121.18              | -61.44          | -25              | -36.44                  | -81.94                  | -67.00                   | 7.16                       | 12.72                       | V                     |
|                           | 7681.77              | -54.92          | -25              | -29.92                  | -80.78                  | -58.22                   | 8.33                       | 11.63                       | V                     |
|                           | 10242.36             | -53.29          | -25              | -28.29                  | -83.04                  | -54.89                   | 10.50                      | 12.10                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.