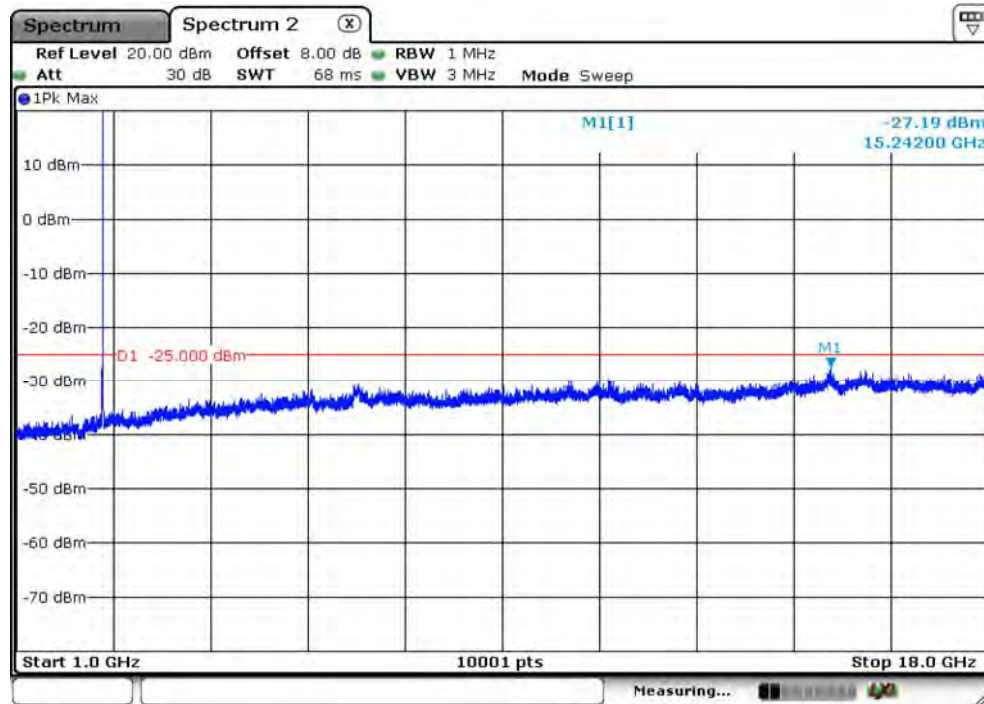


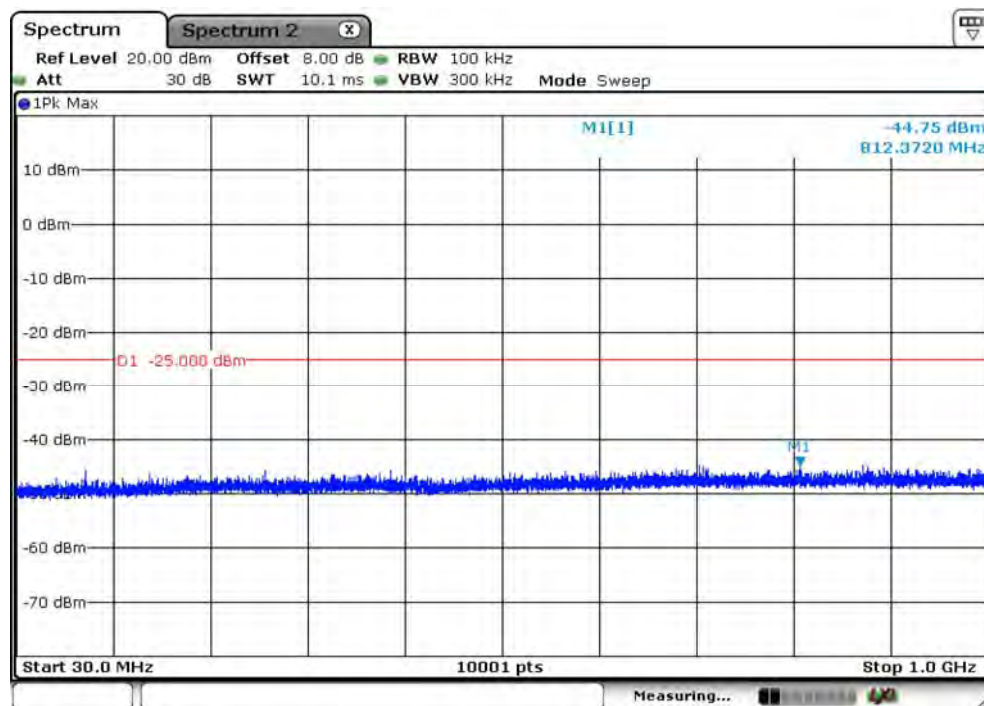
|                 |                                |                |        |
|-----------------|--------------------------------|----------------|--------|
| Product         | Module                         |                |        |
| Test Item       | Conducted Spurious Emission    |                |        |
| Test Mode       | Mode 13: LTE CA Band 41C (FCC) |                |        |
| Date of Test    | 2020/08/26                     | Test Site      | SR12-H |
| Temperature(°C) | 24                             | Humidity (%RH) | 66     |

CA\_41C\_CH39683+CH39800\_5M+20M\_\_QPSK\_1RB24+1RB0\_Above 1G



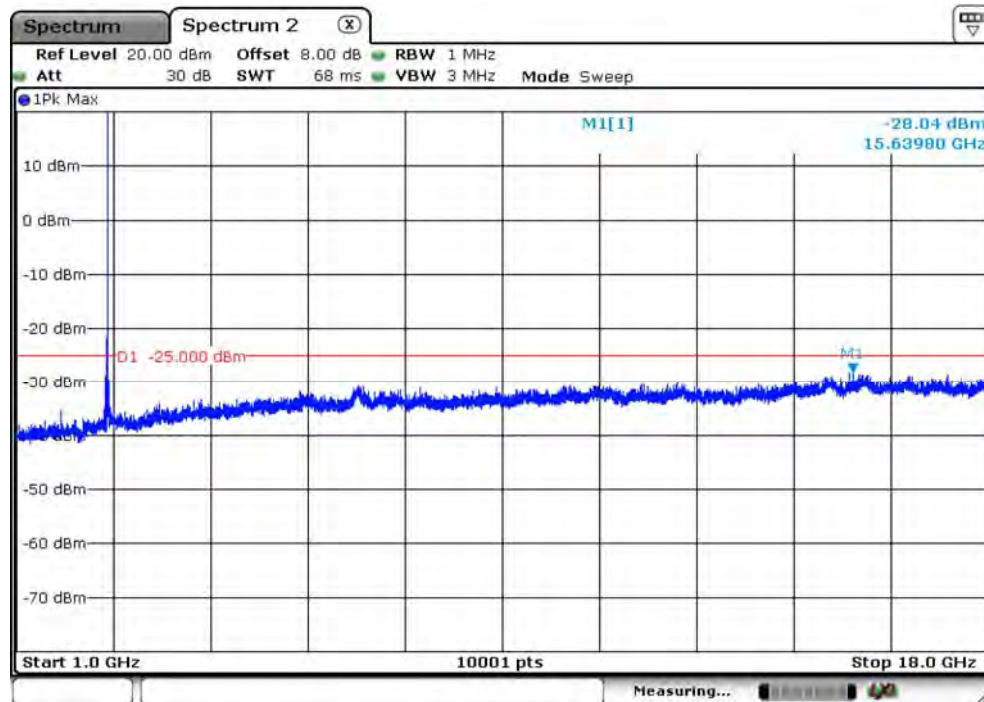
Date: 17.SEP.2020 16:01:34

CA\_41C\_CH39683+CH39800\_5M+20M\_\_QPSK\_1RB24+1RB0\_Below 1G

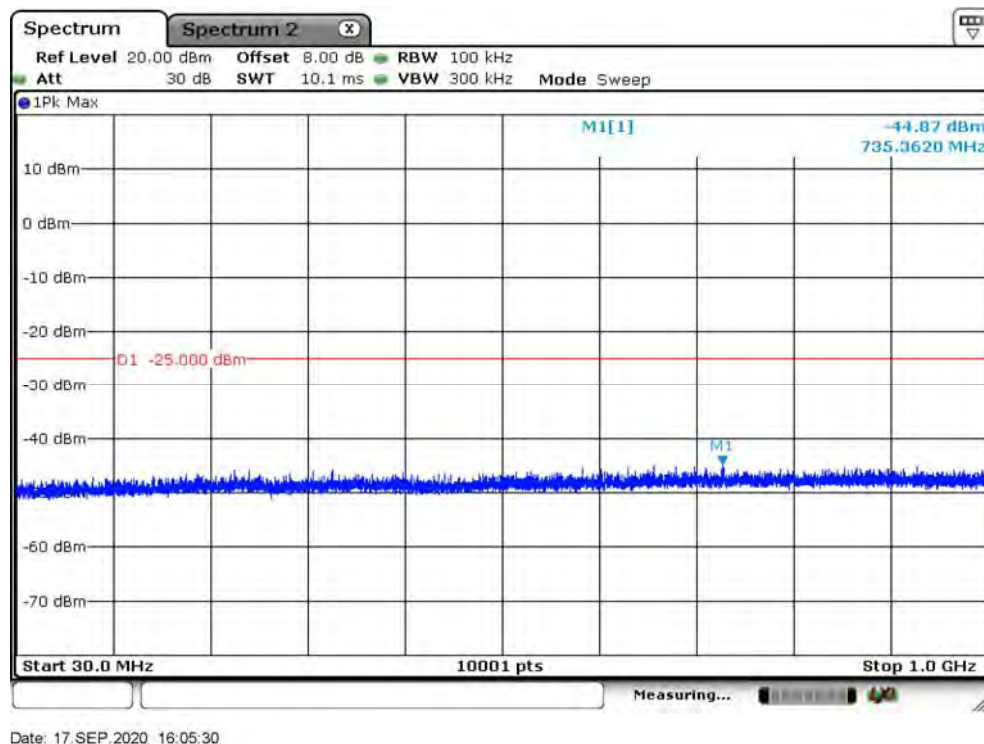


Date: 17.SEP.2020 16:04:50

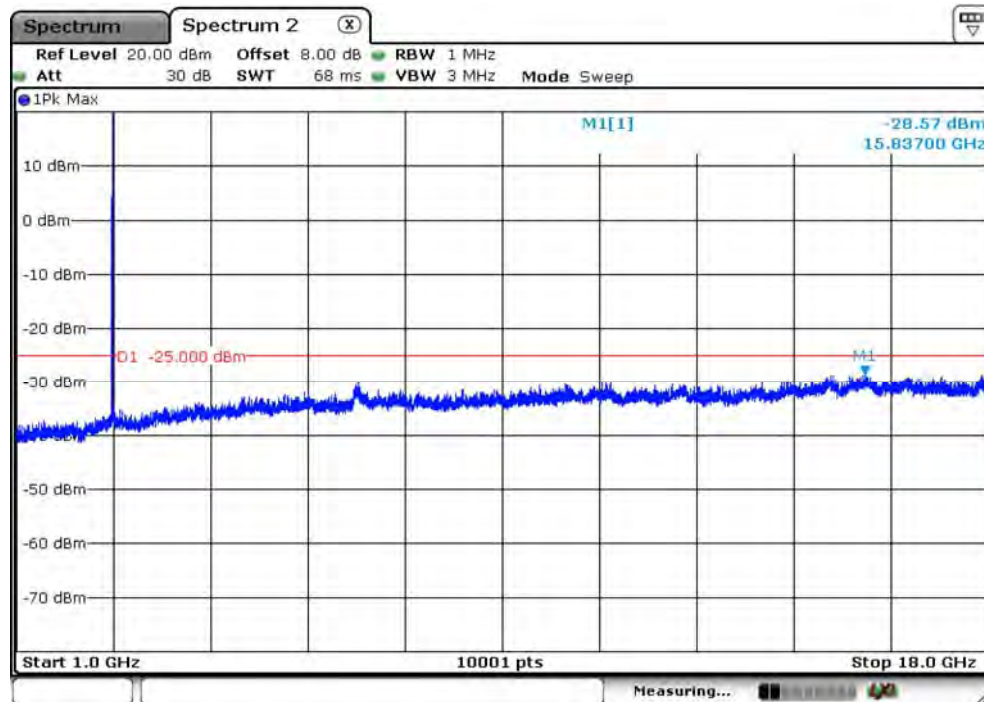
## CA\_41C\_CH40528+CH40645\_5M+20M\_QPSK\_1RB24+1RB0\_Above 1G



## CA\_41C\_CH40528+CH40645\_5M+20M\_QPSK\_1RB24+1RB0\_Below 1G

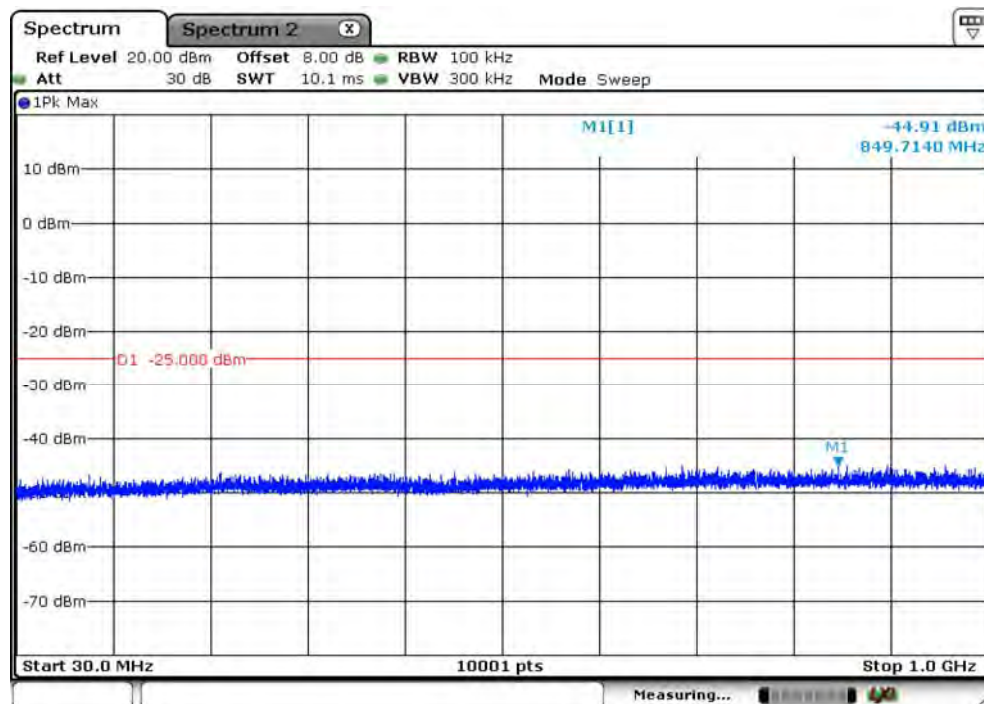


## CA\_41C\_CH41373+CH41490\_5M+20M\_\_QPSK\_1RB24+1RB0\_Above 1G



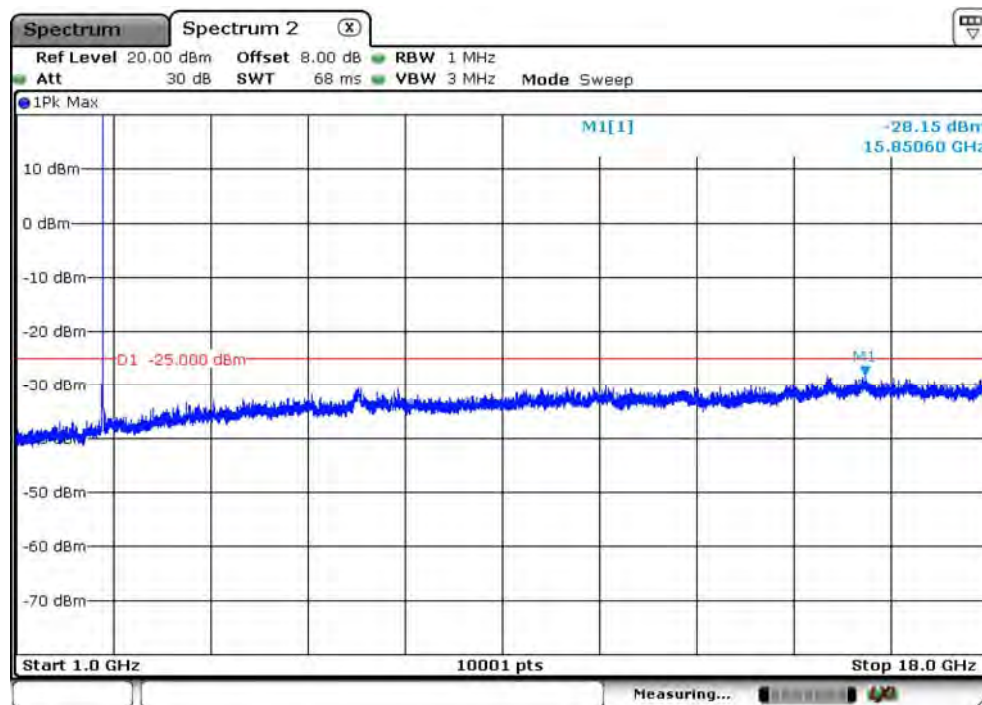
Date: 17.SEP.2020 16:03:56

## CA\_41C\_CH41373+CH41490\_5M+20M\_\_QPSK\_1RB24+1RB0\_Below 1G



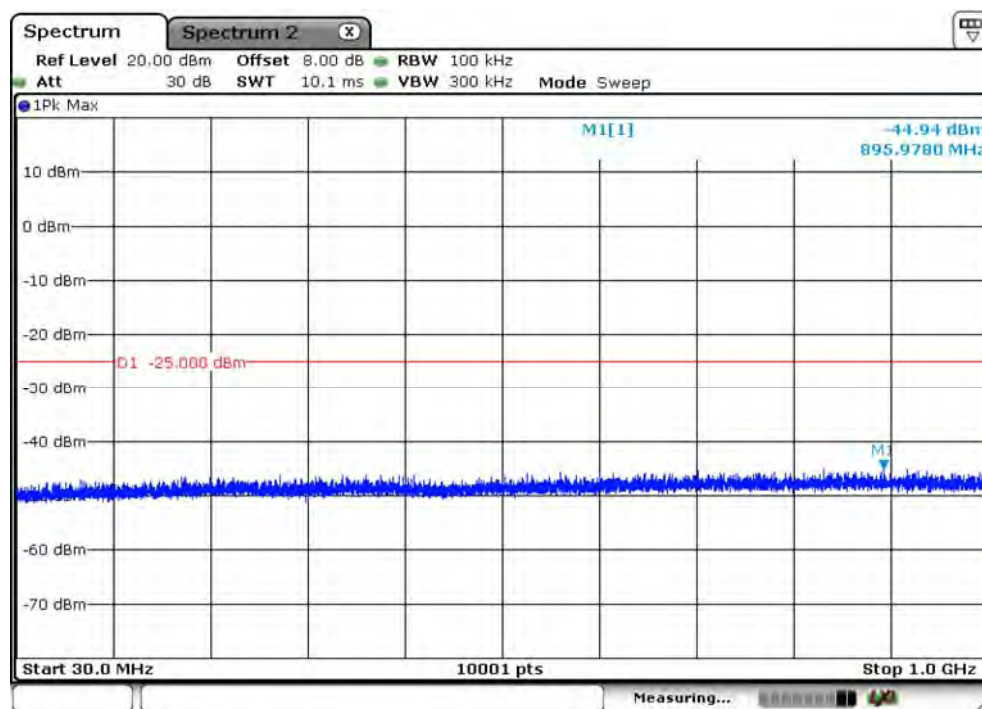
Date: 17.SEP.2020 16:06:36

## CA\_41C\_CH39703+CH39823\_10M+15M\_QPSK\_1RB49+1RB0\_Above 1G



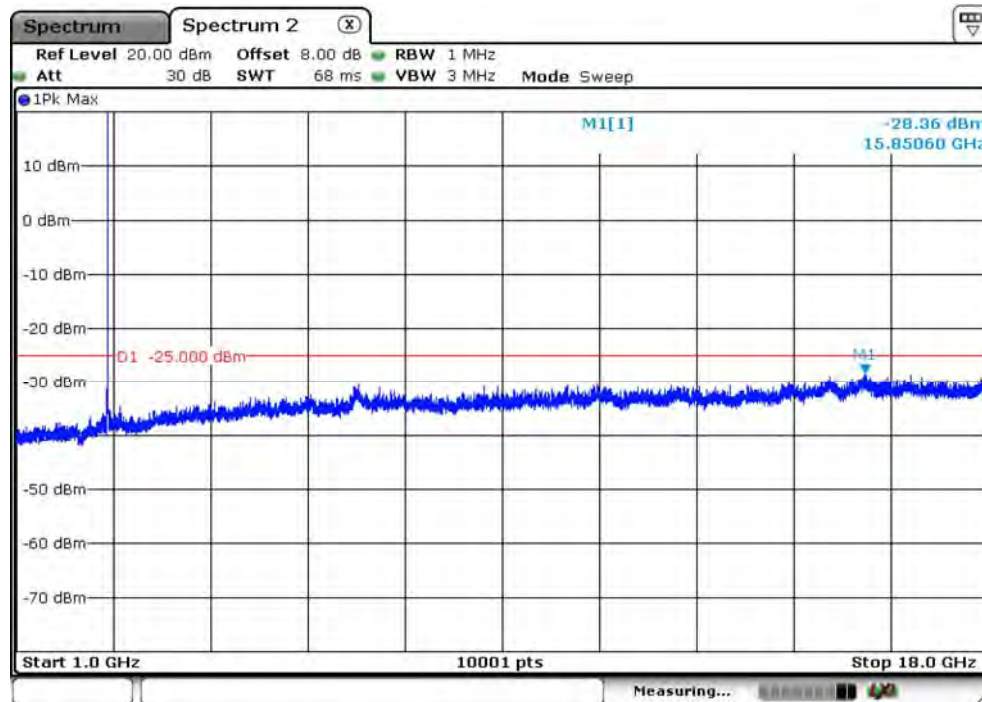
Date: 17.SEP.2020 16:18:49

## CA\_41C\_CH39703+CH39823\_10M+15M\_QPSK\_1RB49+1RB0\_Below 1G



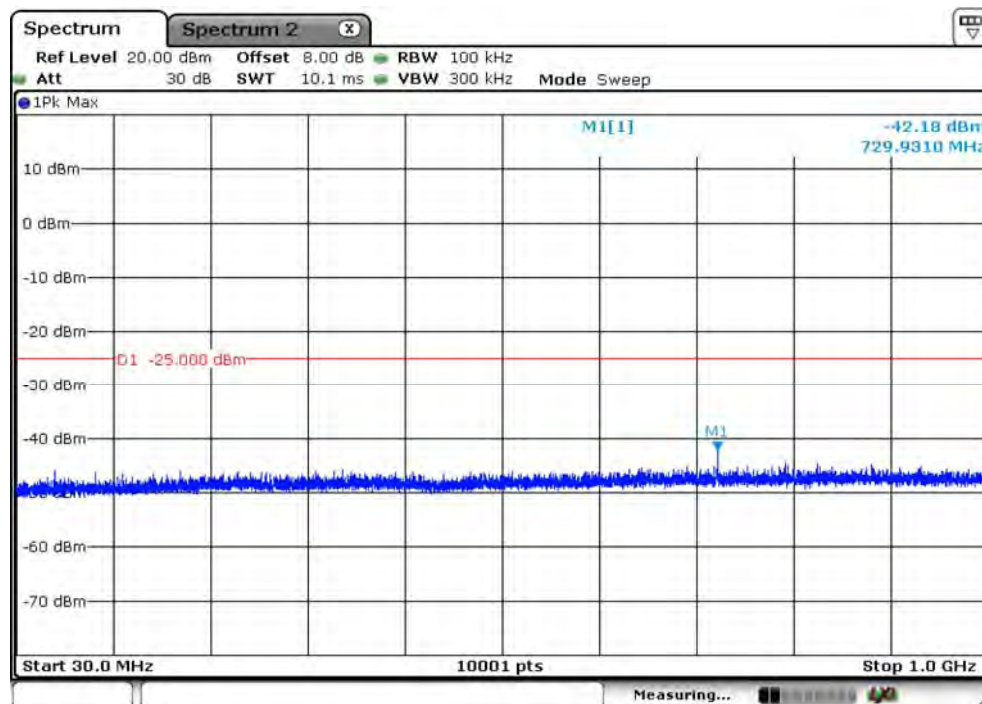
Date: 17.SEP.2020 16:15:33

## CA\_41C\_CH40549+CH40669\_10M+15M\_QPSK\_1RB49+1RB0\_Above 1G



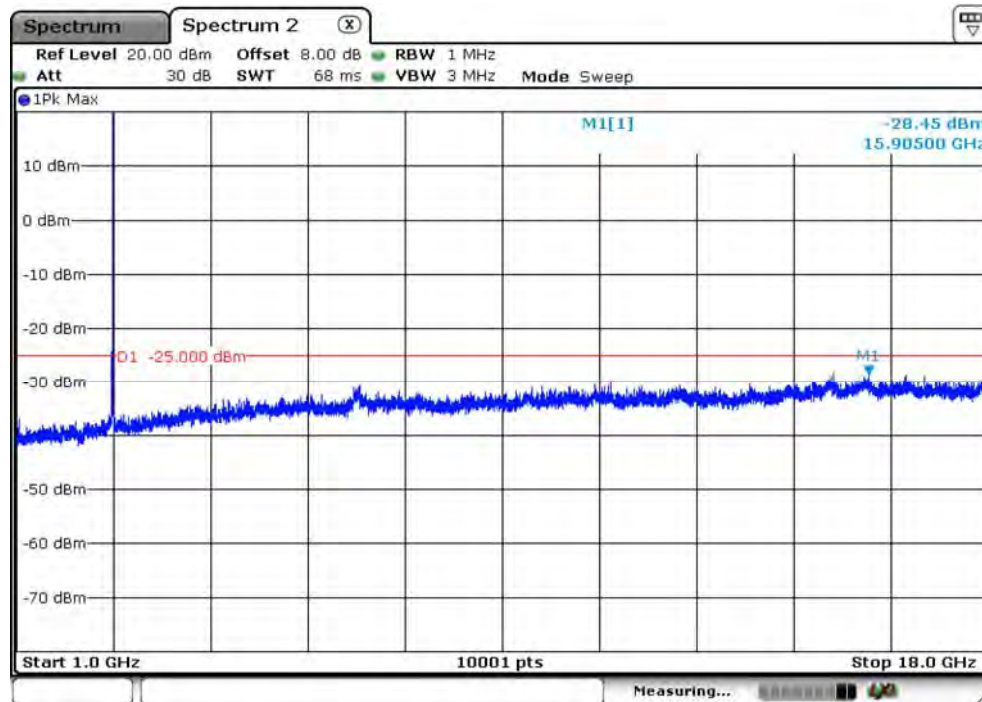
Date: 17.SEP.2020 16:19:31

## CA\_41C\_CH40549+CH40669\_10M+15M\_QPSK\_1RB49+1RB0\_Below 1G



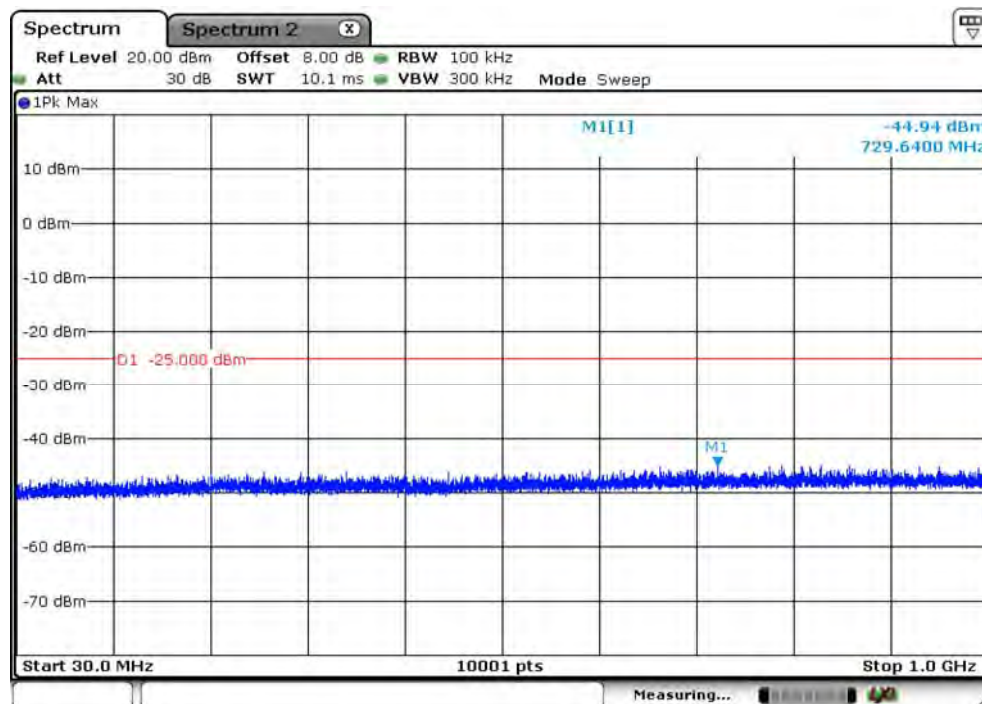
Date: 17.SEP.2020 16:16:44

## CA\_41C\_CH41395+CH41515\_10M+15M\_QPSK\_1RB49+1RB0\_Above 1G



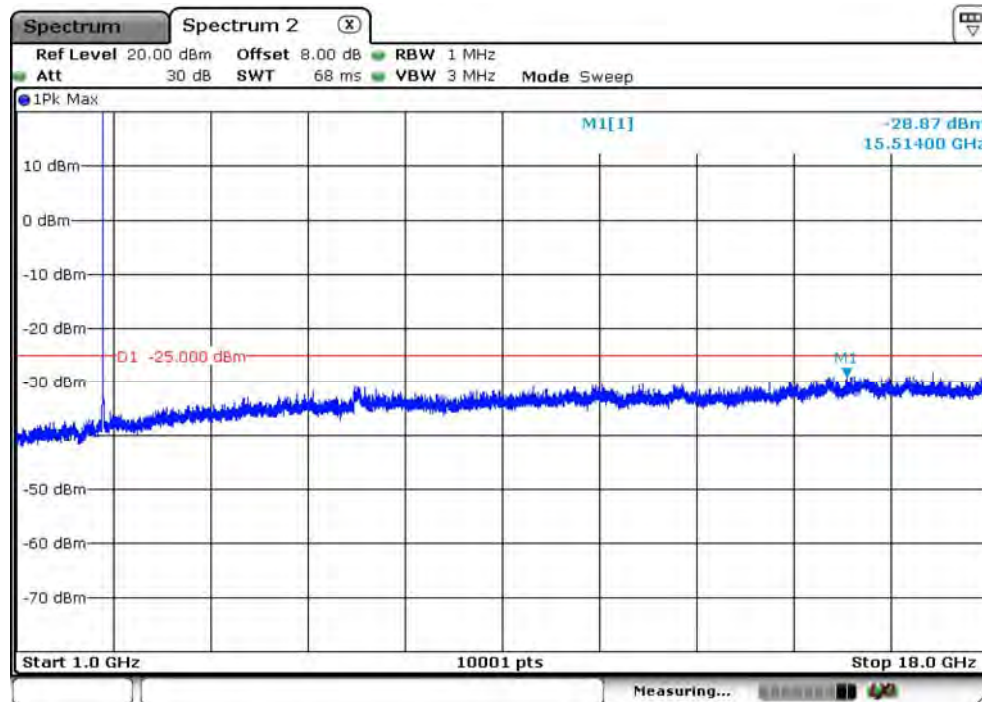
Date: 17.SEP.2020 16:20:08

## CA\_41C\_CH41395+CH41515\_10M+15M\_QPSK\_1RB49+1RB0\_Below 1G



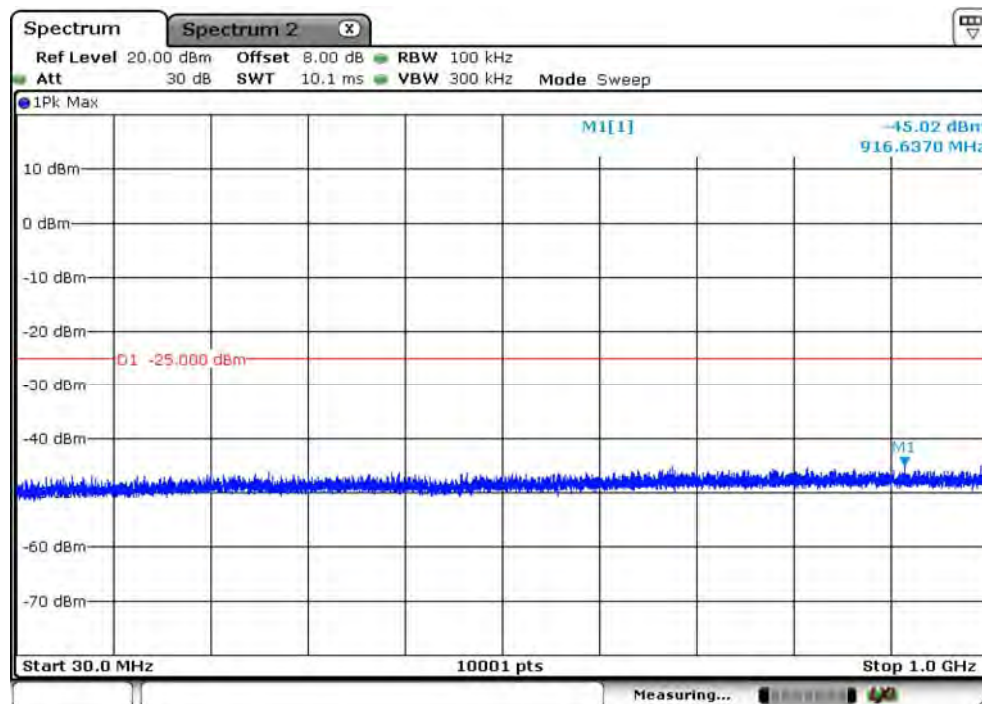
Date: 17.SEP.2020 16:17:54

## CA\_41C\_CH39705+CH39849\_10M+20M\_QPSK\_1RB49+1RB0\_Above 1G



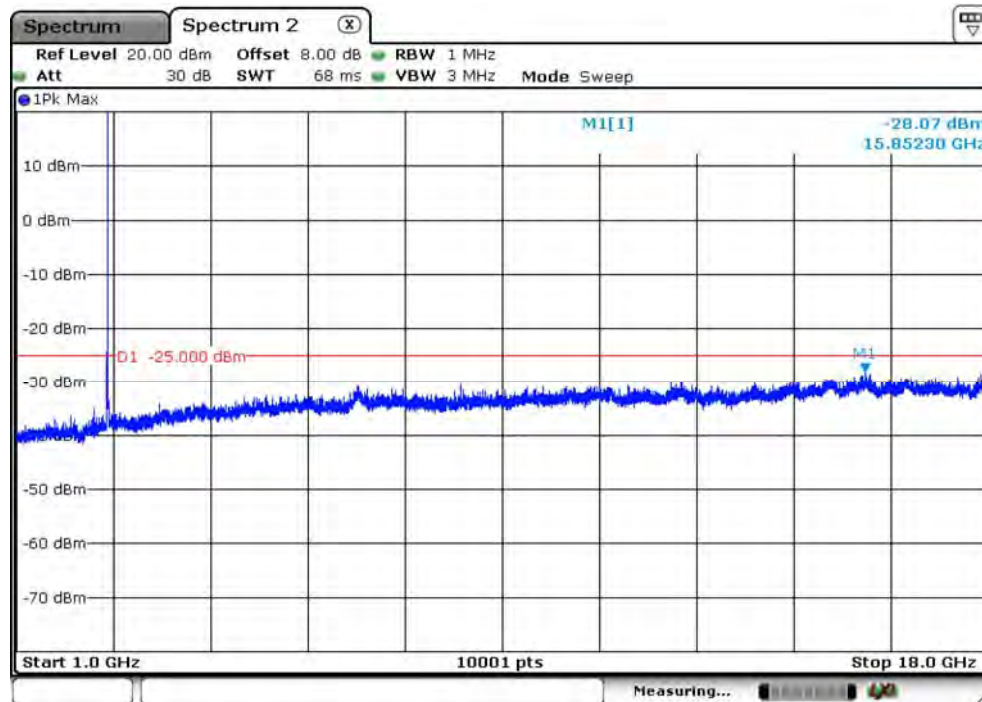
Date: 17.SEP.2020 16:23:41

## CA\_41C\_CH39705+CH39849\_10M+20M\_QPSK\_1RB49+1RB0\_Below 1G



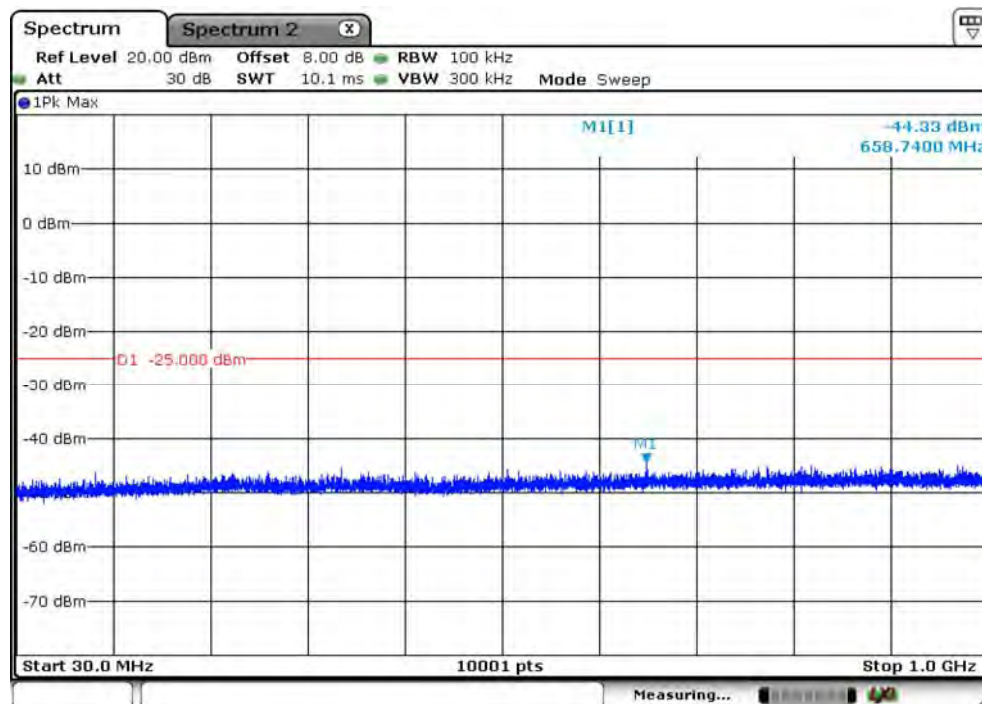
Date: 17.SEP.2020 16:26:03

## CA\_41C\_CH40526+CH40670\_10M+20M\_QPSK\_1RB49+1RB0\_Above 1G



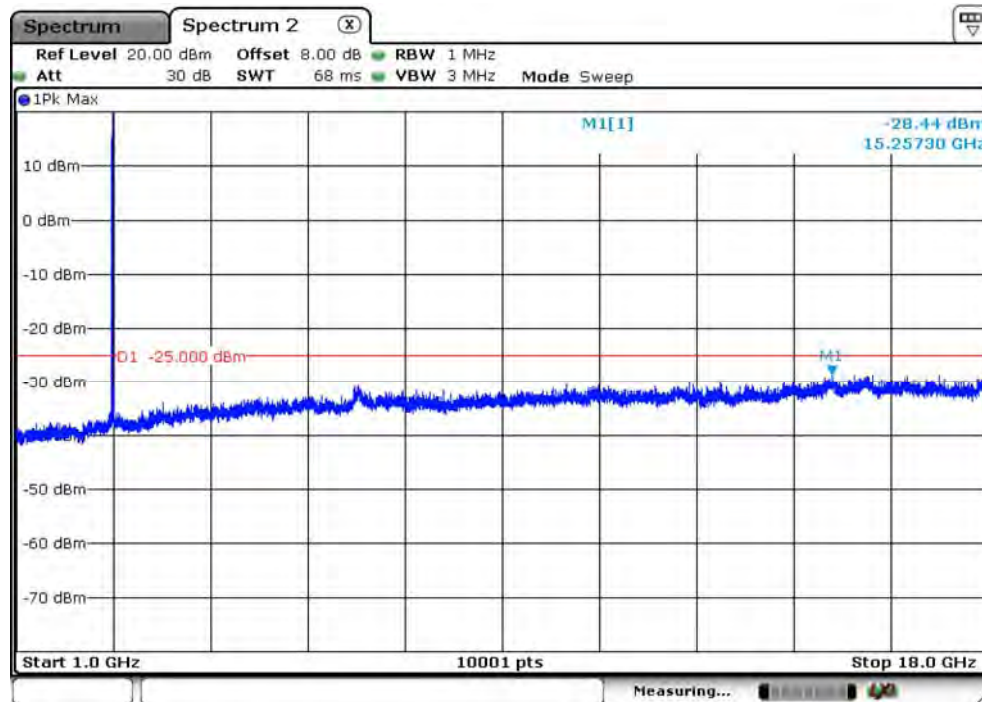
Date: 17.SEP.2020 16:24:40

## CA\_41C\_CH40526+CH40670\_10M+20M\_QPSK\_1RB49+1RB0\_Below 1G



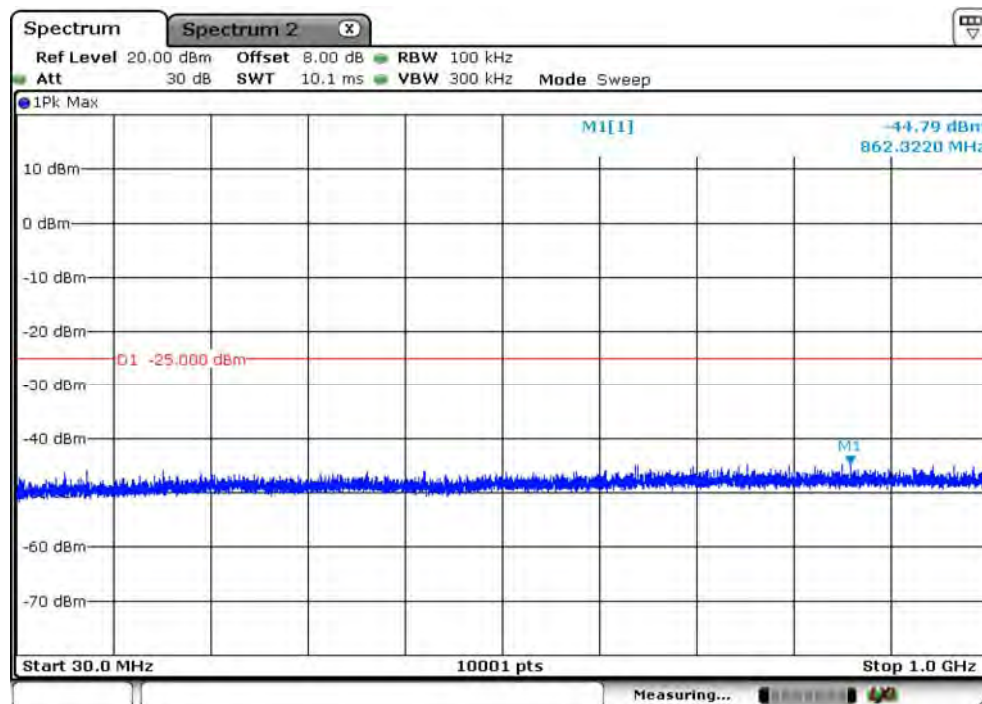
Date: 17.SEP.2020 16:26:39

## CA\_41C\_CH41346+CH41490\_10M+20M\_QPSK\_1RB49+1RB0\_Above 1G



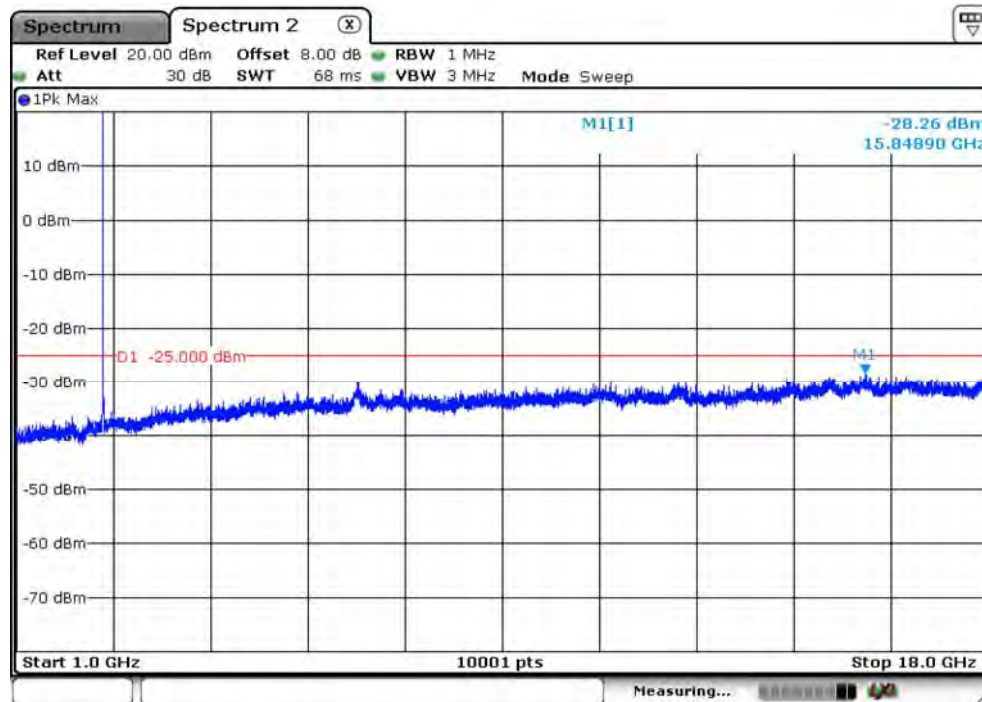
Date: 17.SEP.2020 16:25:24

## CA\_41C\_CH41346+CH41490\_10M+20M\_QPSK\_1RB49+1RB0\_Below 1G



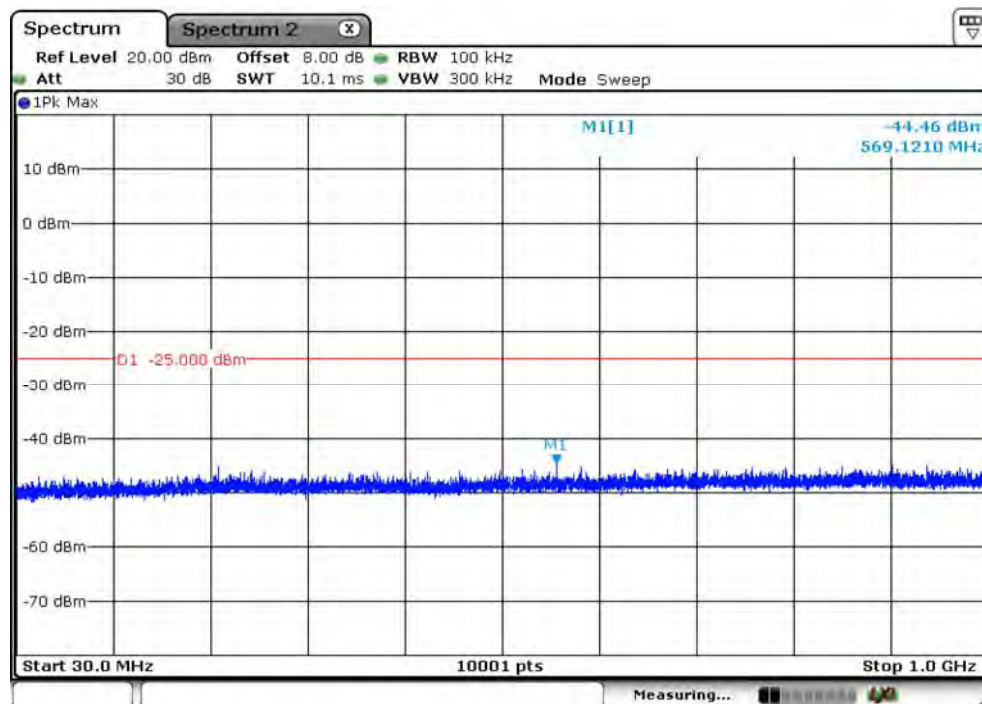
Date: 17.SEP.2020 16:27:16

## CA\_41C\_CH39725+CH39845\_15M+10M\_QPSK\_1RB74+1RB0\_Above 1G



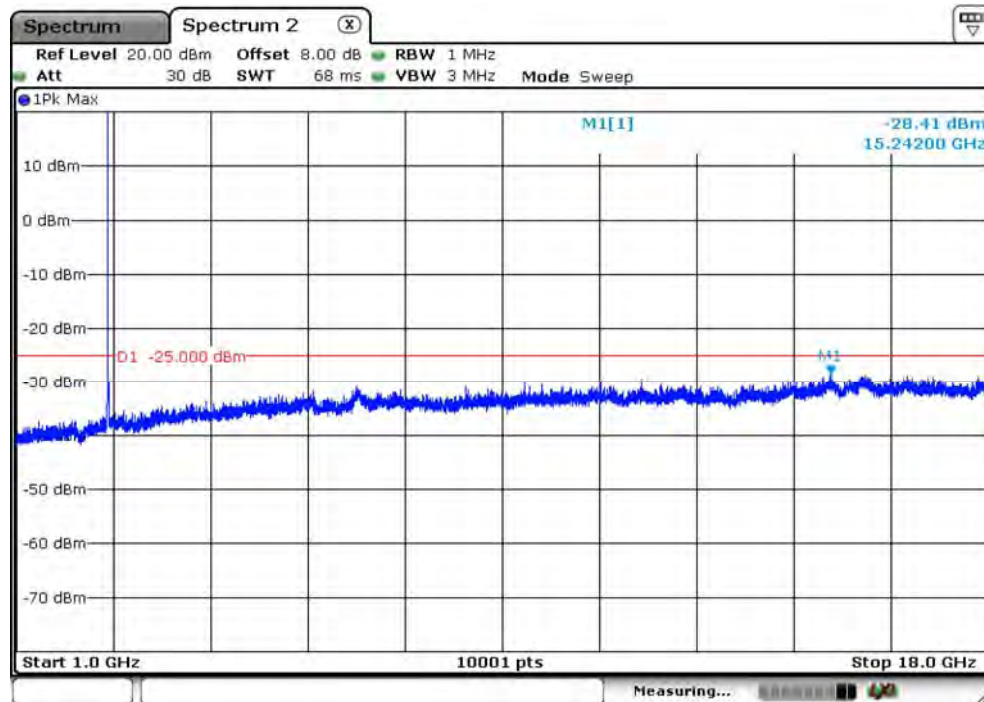
Date: 17.SEP.2020 16:30:57

## CA\_41C\_CH39725+CH39845\_15M+10M\_QPSK\_1RB74+1RB0\_Below 1G



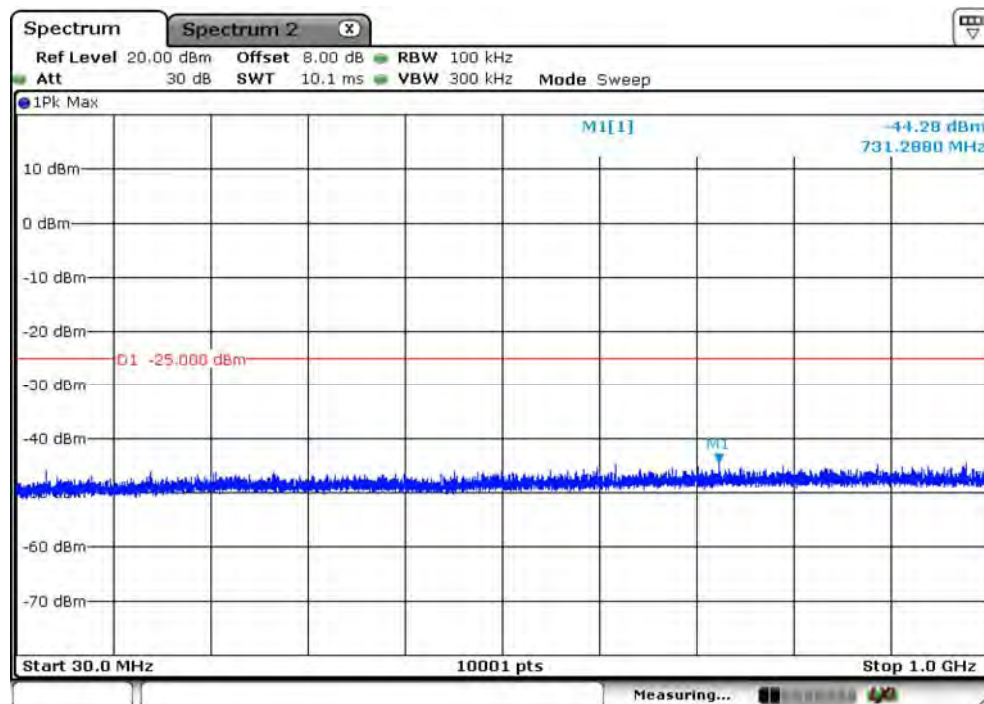
Date: 17.SEP.2020 16:28:26

## CA\_41C\_CH40571+CH40691\_15M+10M\_QPSK\_1RB74+1RB0\_Above 1G



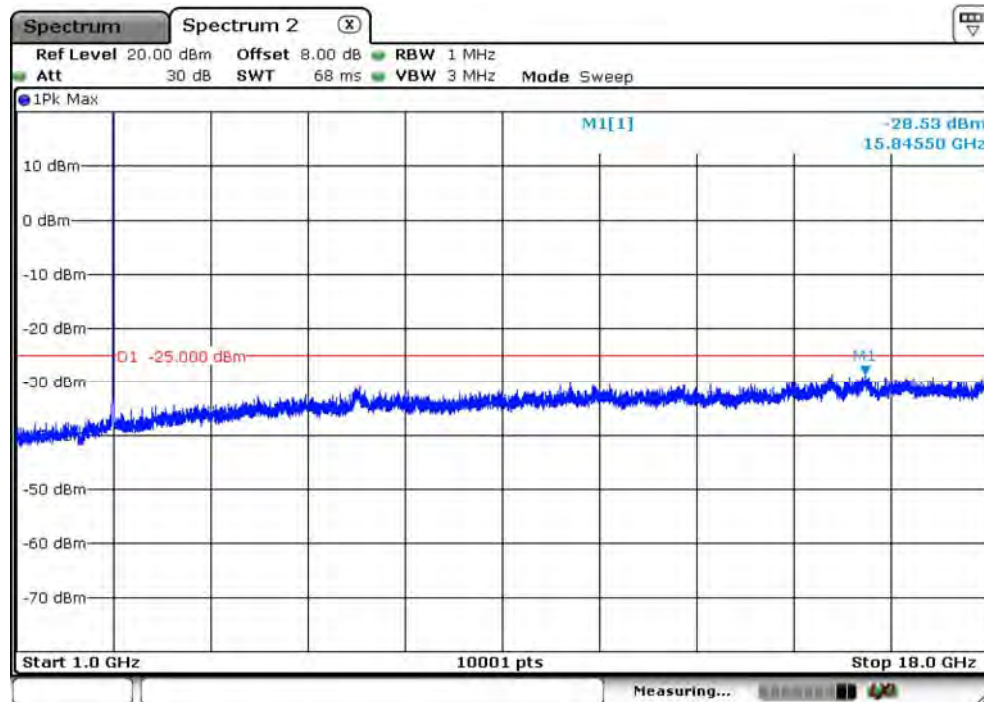
Date: 17.SEP.2020 16:31:43

## CA\_41C\_CH40571+CH40691\_15M+10M\_QPSK\_1RB74+1RB0\_Below 1G



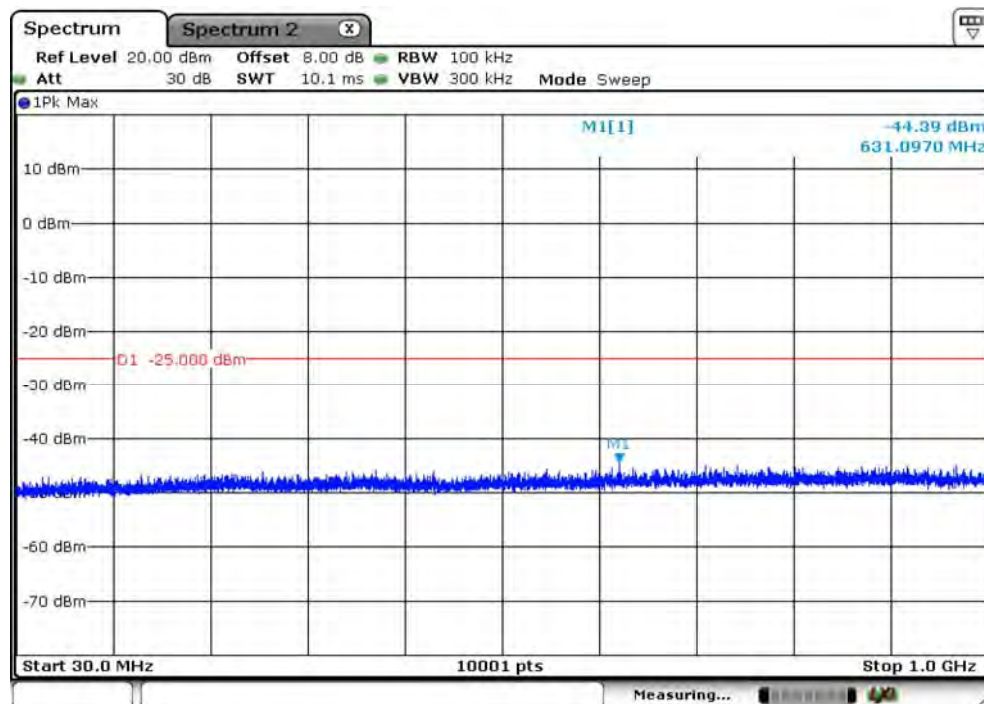
Date: 17.SEP.2020 16:29:19

## CA\_41C\_CH41417+CH41537\_15M+10M\_QPSK\_1RB74+1RB0\_Above 1G



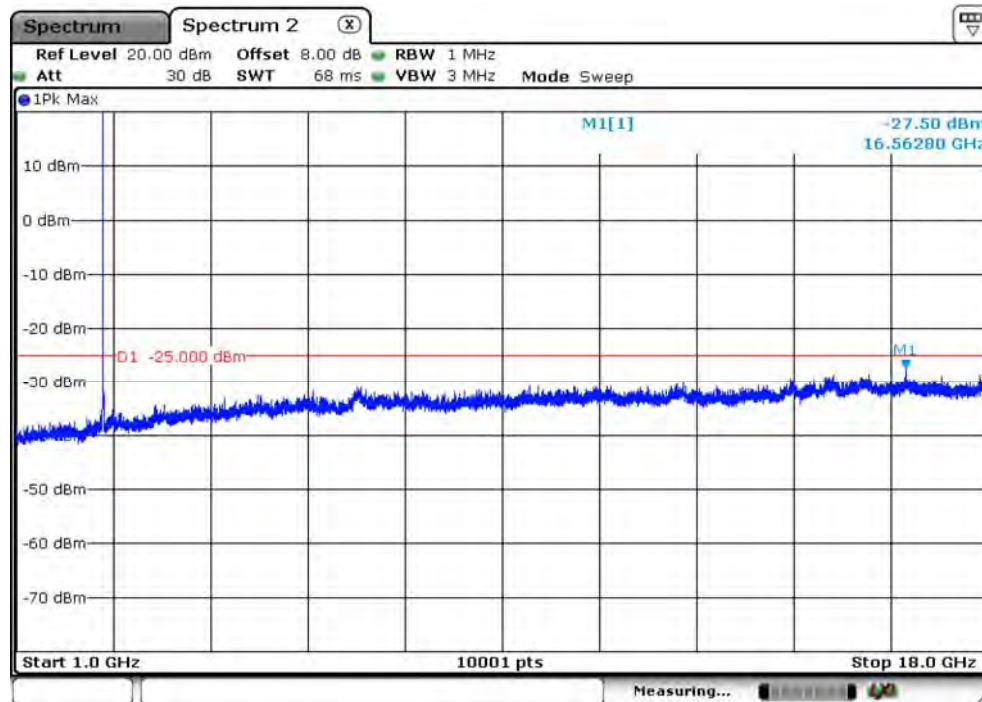
Date: 17.SEP.2020 16:32:16

## CA\_41C\_CH41417+CH41537\_15M+10M\_QPSK\_1RB74+1RB0\_Below 1G



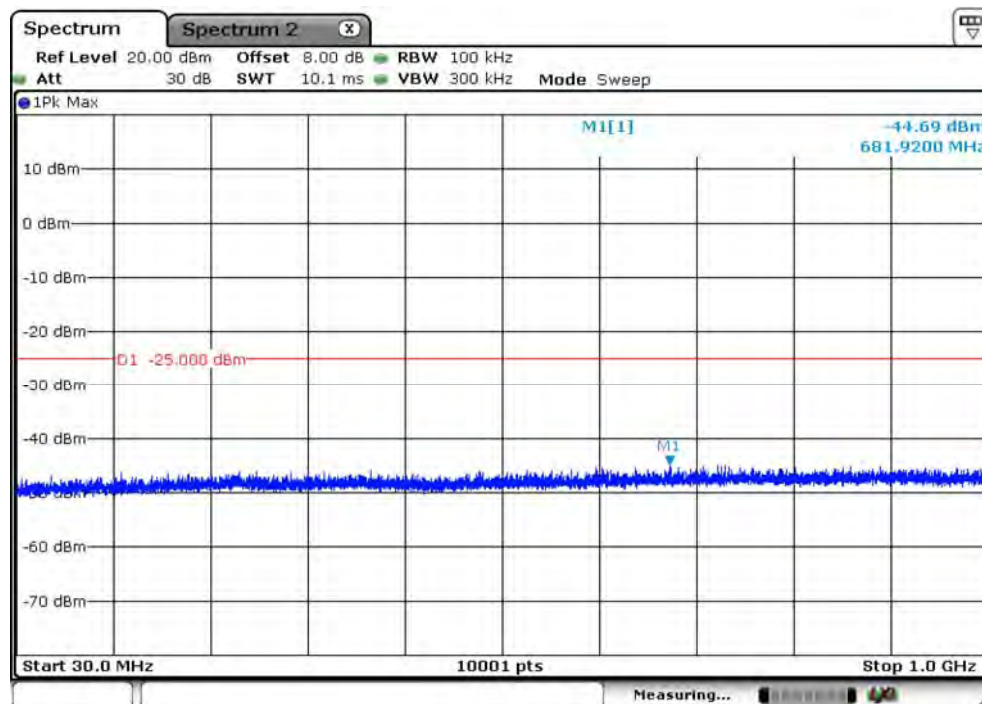
Date: 17.SEP.2020 16:30:17

## CA\_41C\_CH39725+CH39875\_15M+15M\_QPSK\_1RB74+1RB0\_Above 1G



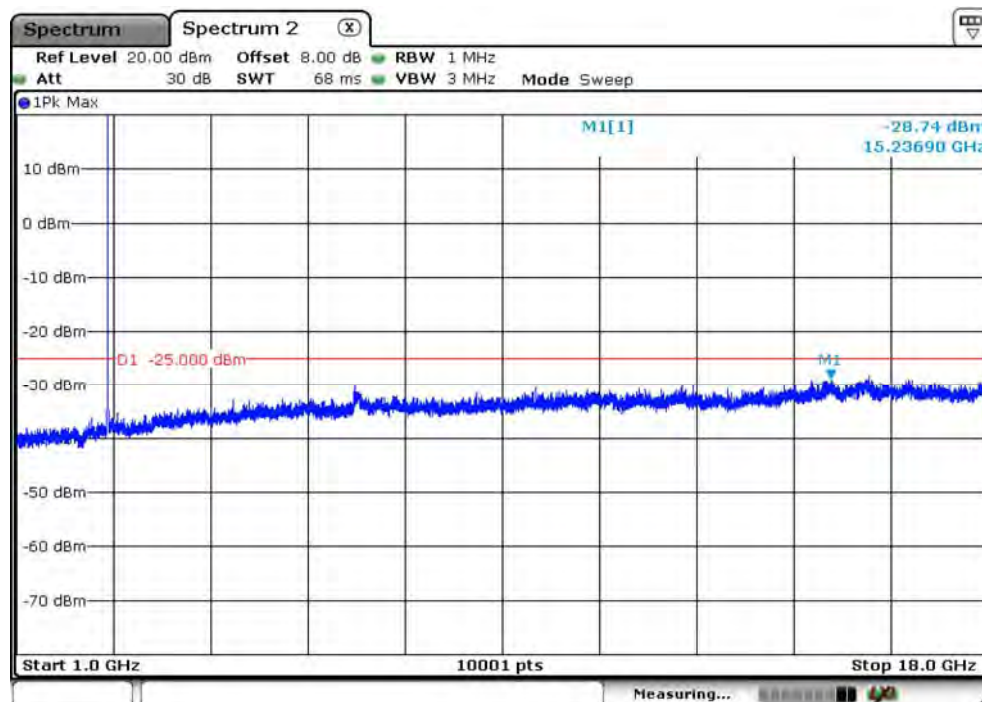
Date: 17.SEP.2020 16:33:28

## CA\_41C\_CH39725+CH39875\_15M+15M\_QPSK\_1RB74+1RB0\_Below 1G



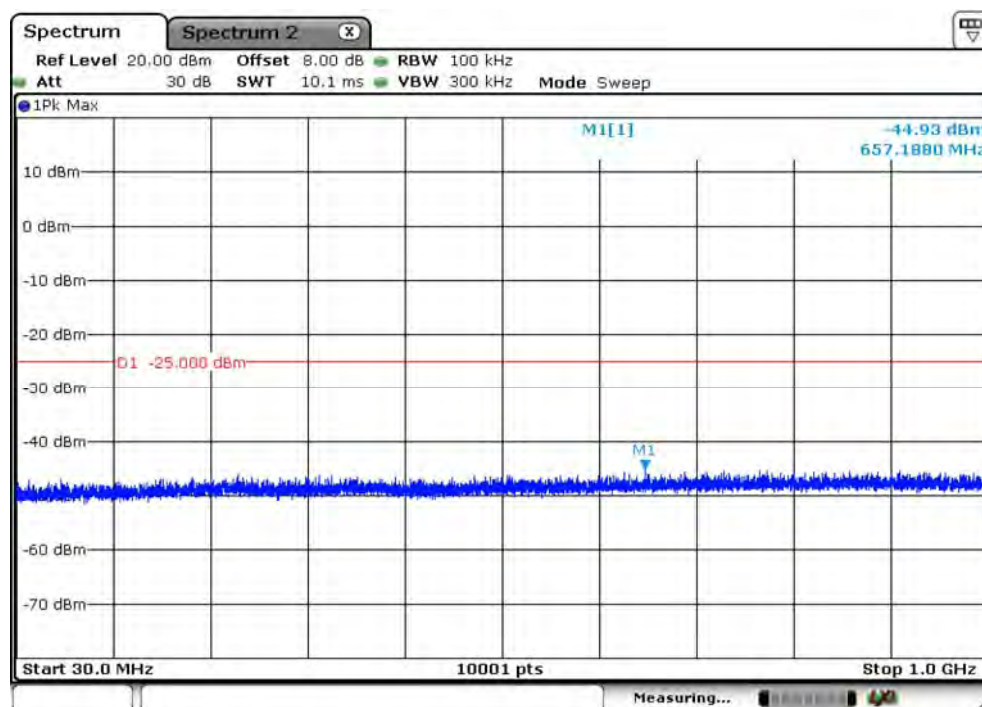
Date: 17.SEP.2020 16:37:24

## CA\_41C\_CH40545+CH40695\_15M+15M\_QPSK\_1RB74+1RB0\_Above 1G



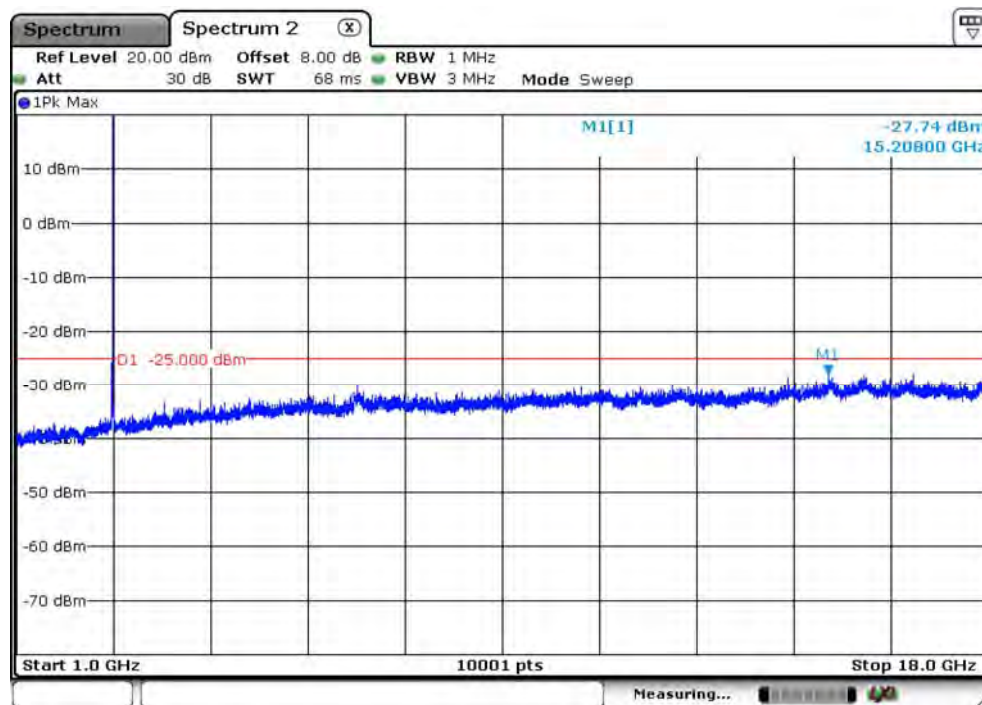
Date: 17.SEP.2020 16:34:05

## CA\_41C\_CH40545+CH40695\_15M+15M\_QPSK\_1RB74+1RB0\_Below 1G



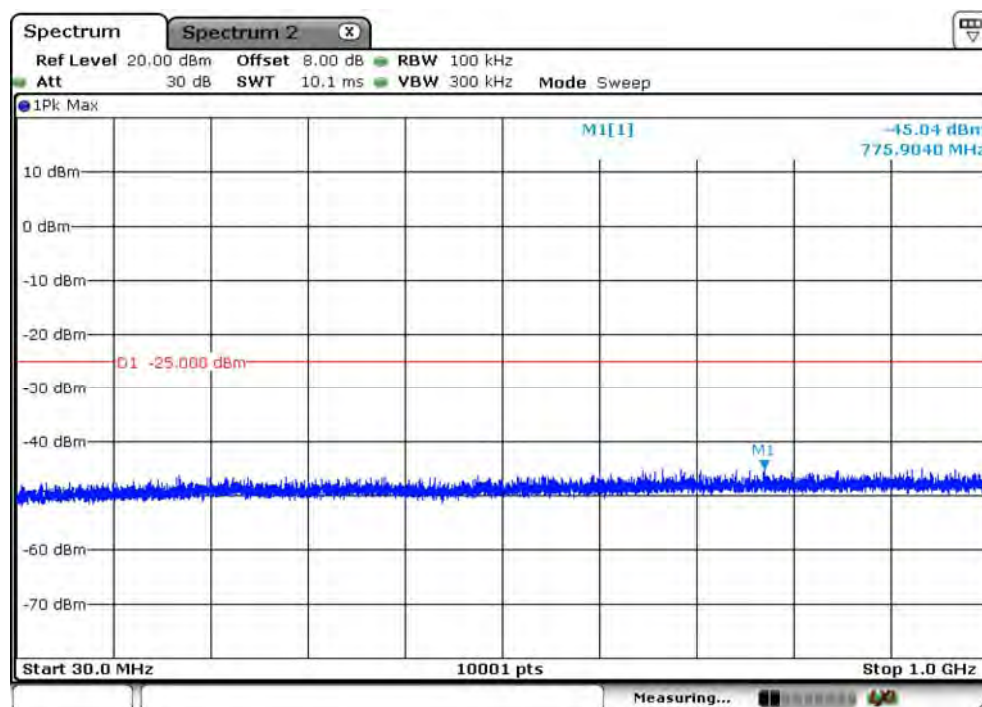
Date: 17.SEP.2020 16:36:11

## CA\_41C\_CH41365+CH41515\_15M+15M\_QPSK\_1RB74+1RB0\_Above 1G



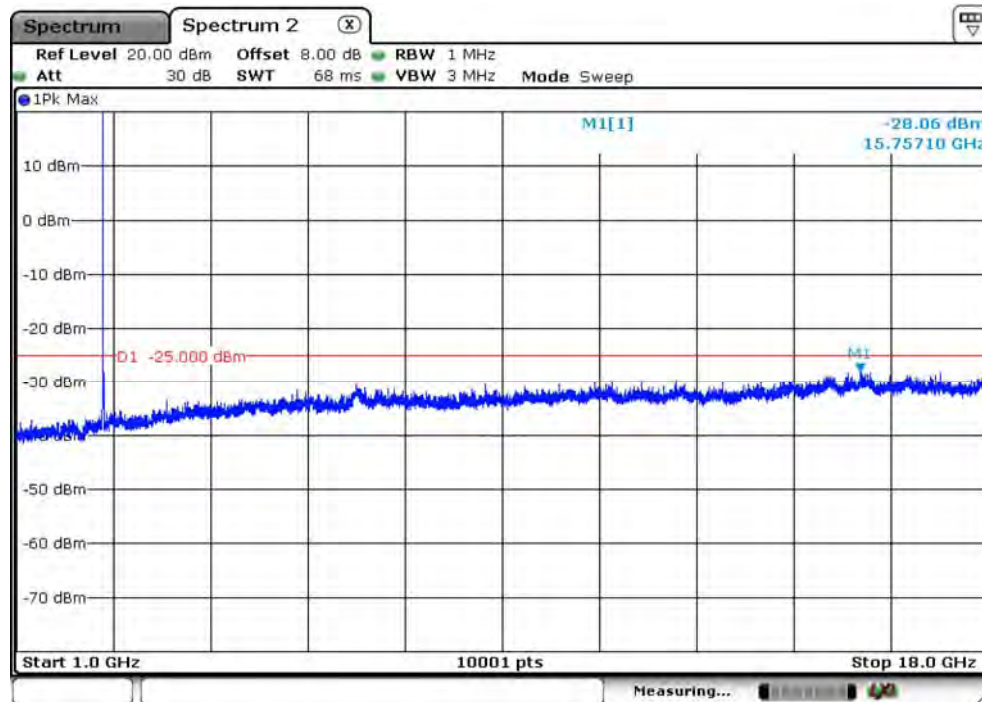
Date: 17.SEP.2020 16:35:04

## CA\_41C\_CH41365+CH41515\_15M+15M\_QPSK\_1RB74+1RB0\_Below 1G



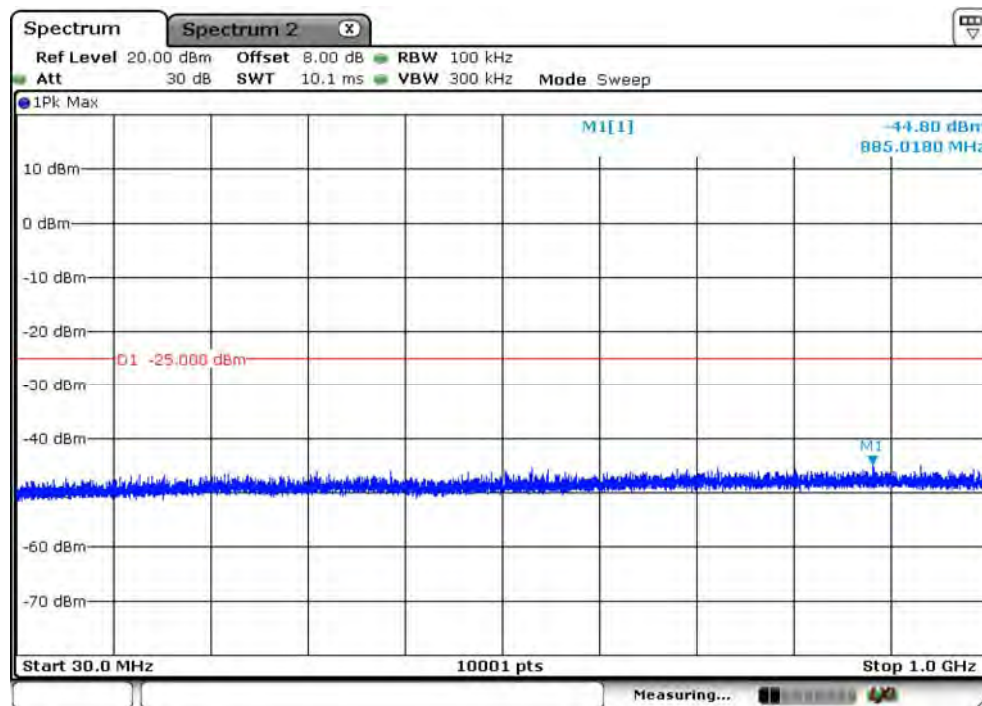
Date: 17.SEP.2020 16:35:34

## CA\_41C\_CH39728+CH39899\_15M+20M\_QPSK\_1RB74+1RB0\_Above 1G



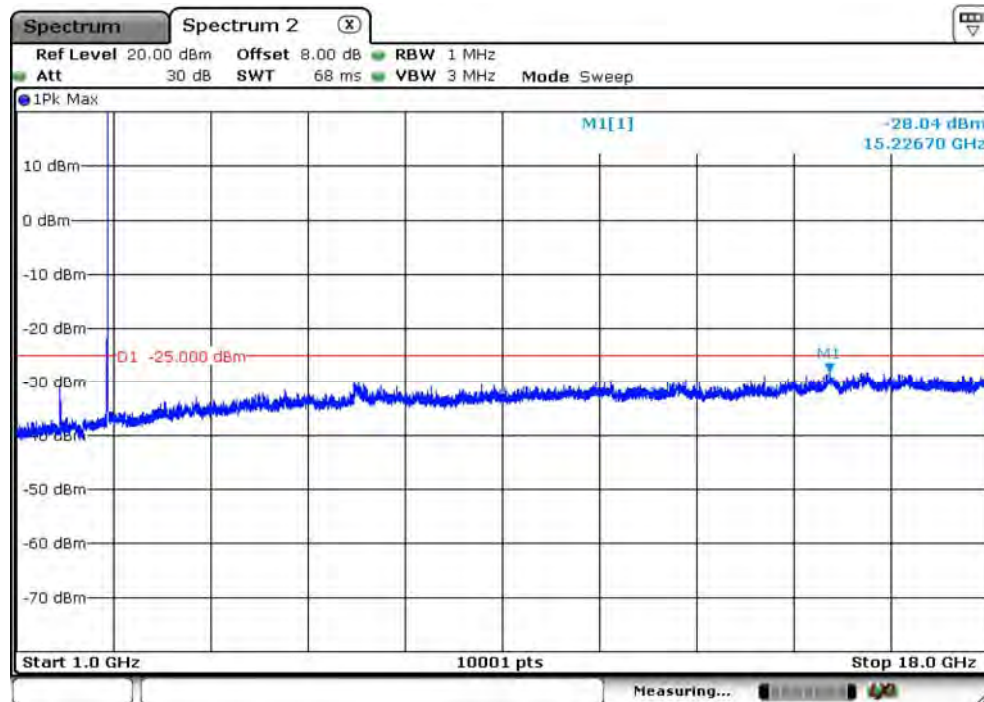
Date: 17.SEP.2020 16:42:45

## CA\_41C\_CH39728+CH39899\_15M+20M\_QPSK\_1RB74+1RB0\_Below 1G



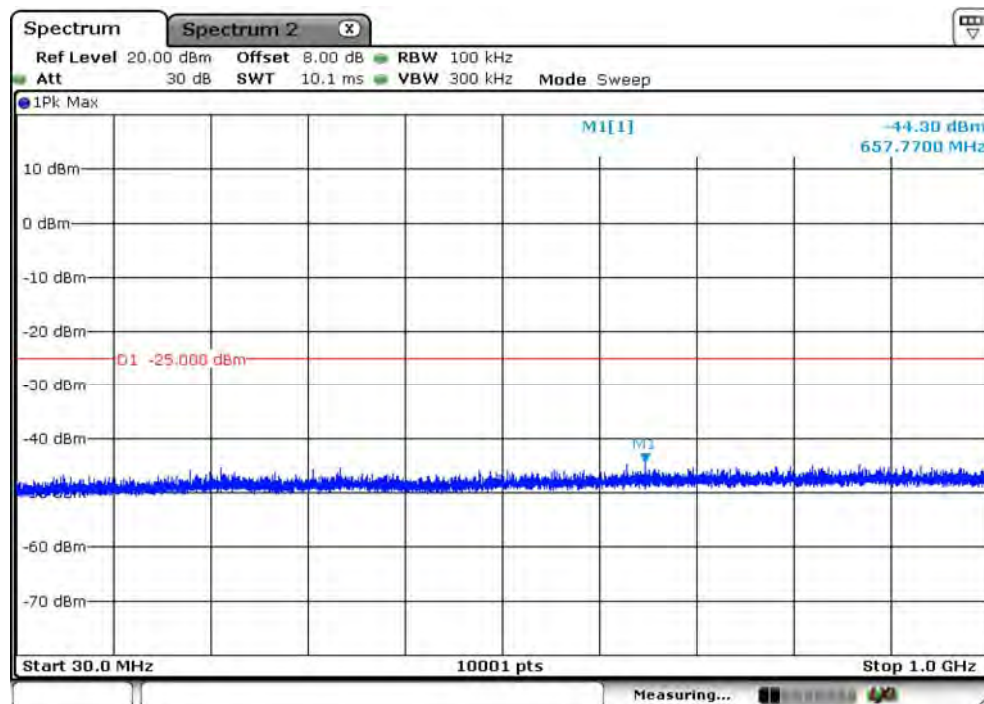
Date: 17.SEP.2020 16:38:29

## CA\_41C\_CH40523+CH40694\_15M+20M\_QPSK\_1RB74+1RB0\_Above 1G



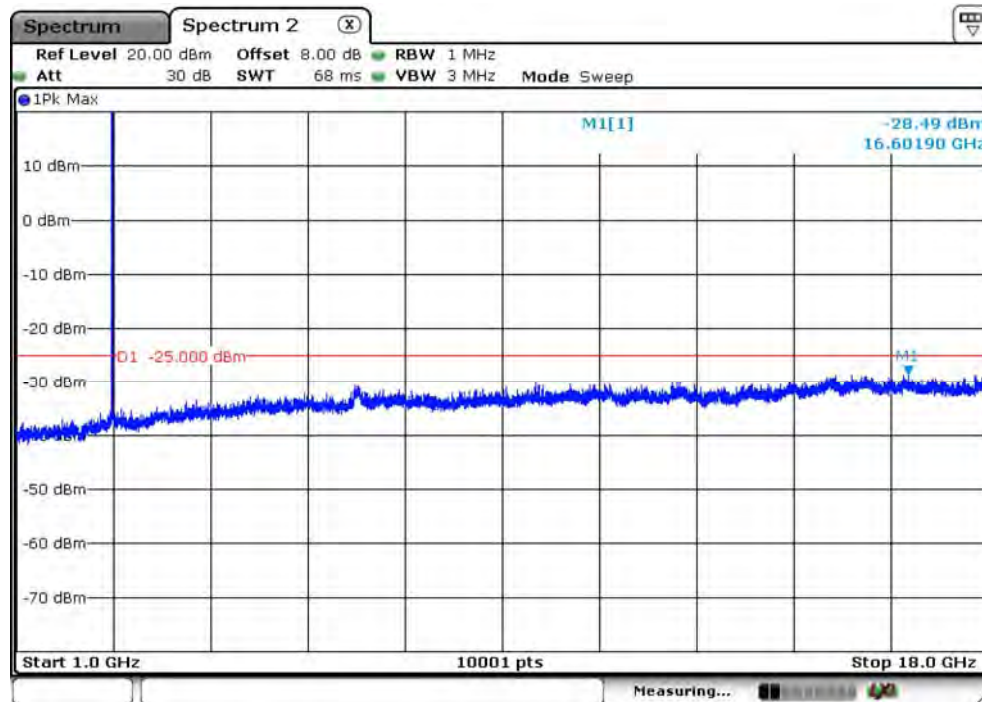
Date: 17.SEP.2020 16:45:25

## CA\_41C\_CH40523+CH40694\_15M+20M\_QPSK\_1RB74+1RB0\_Below 1G



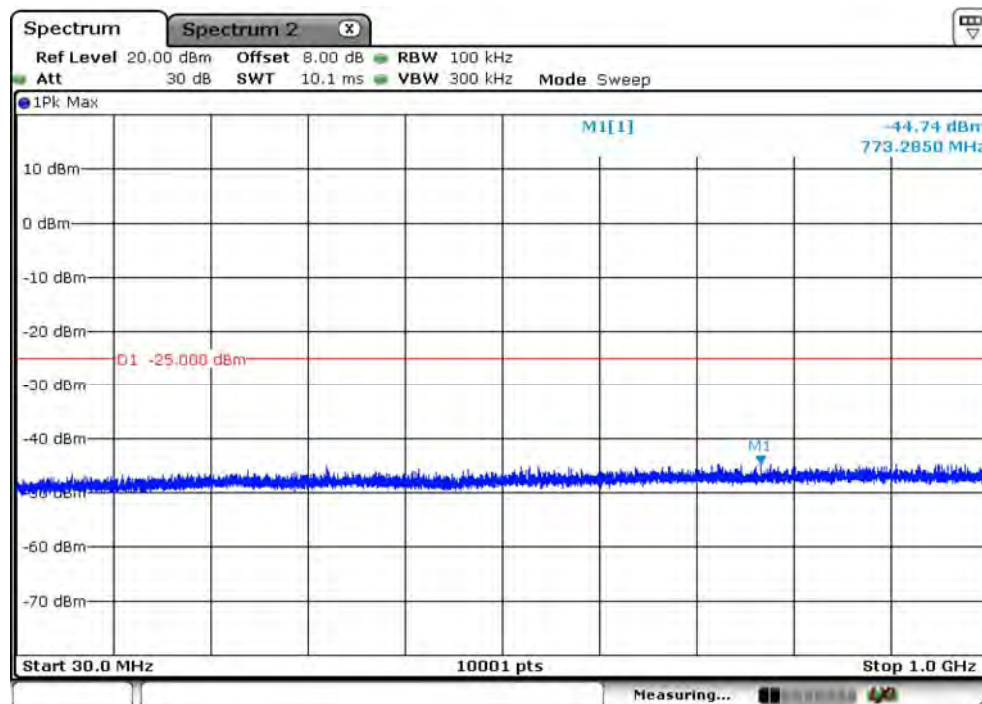
Date: 17.SEP.2020 16:39:26

## CA\_41C\_CH41319+CH41490\_15M+20M\_QPSK\_1RB74+1RB0\_Above 1G



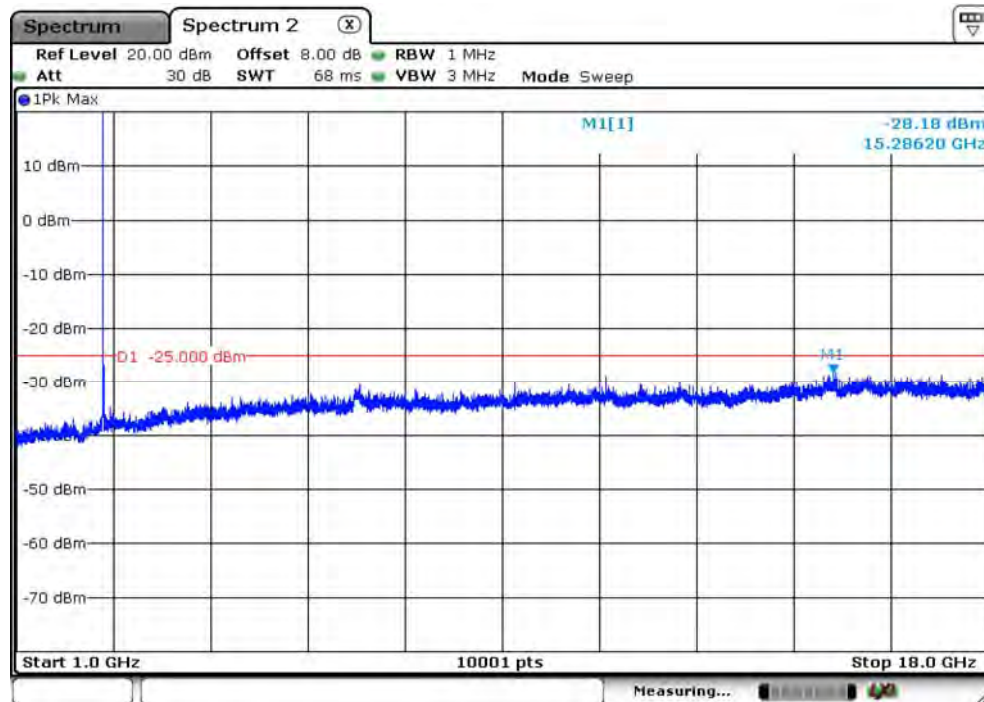
Date: 17.SEP.2020 16:46:23

## CA\_41C\_CH41319+CH41490\_15M+20M\_QPSK\_1RB74+1RB0\_Below 1G



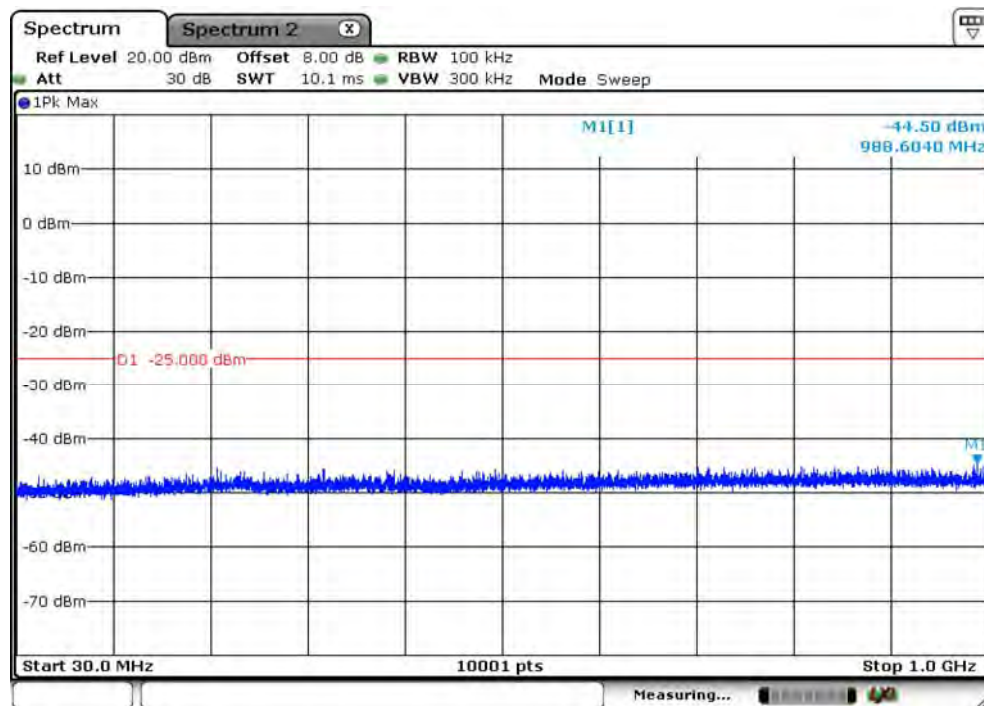
Date: 17.SEP.2020 16:41:42

## CA\_41C\_CH39750+CH39867\_20M+5M\_\_QPSK\_1RB99+1RB0\_Above 1G



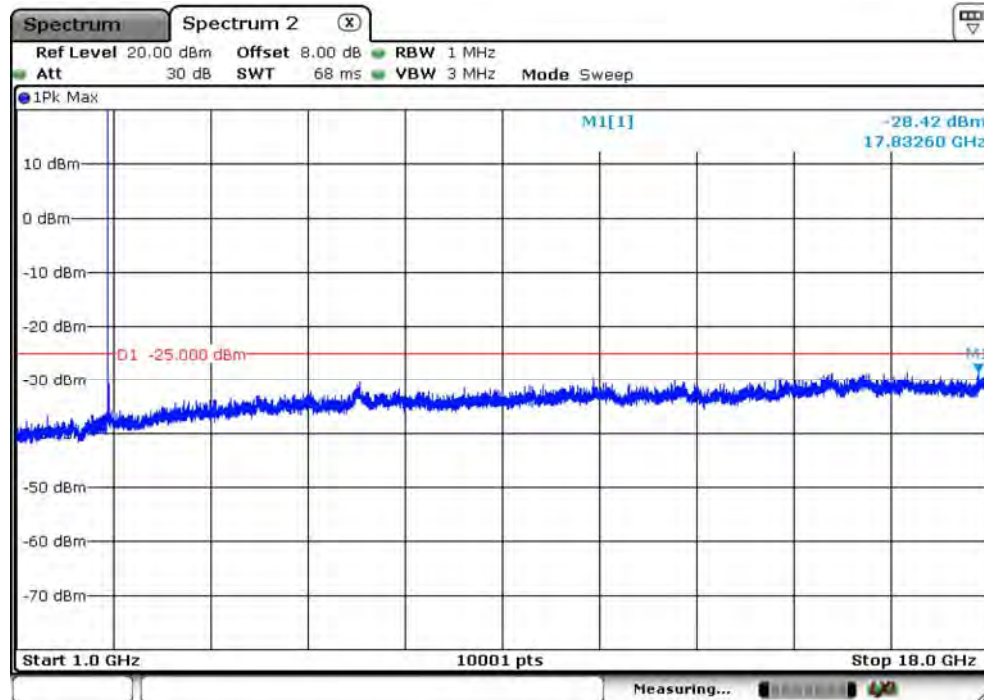
Date: 17.SEP.2020 16:47:32

## CA\_41C\_CH39750+CH39867\_20M+5M\_\_QPSK\_1RB99+1RB0\_Below 1G



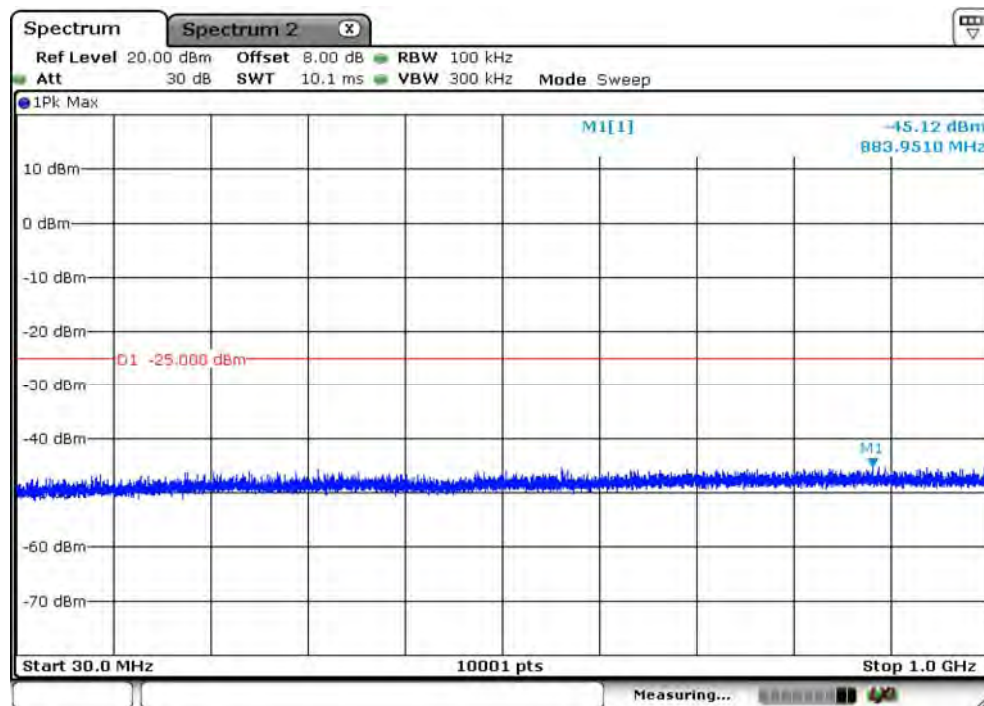
Date: 17.SEP.2020 16:50:10

## CA\_41C\_CH40595+CH40712\_20M+5M\_\_QPSK\_1RB99+1RB0\_Above 1G



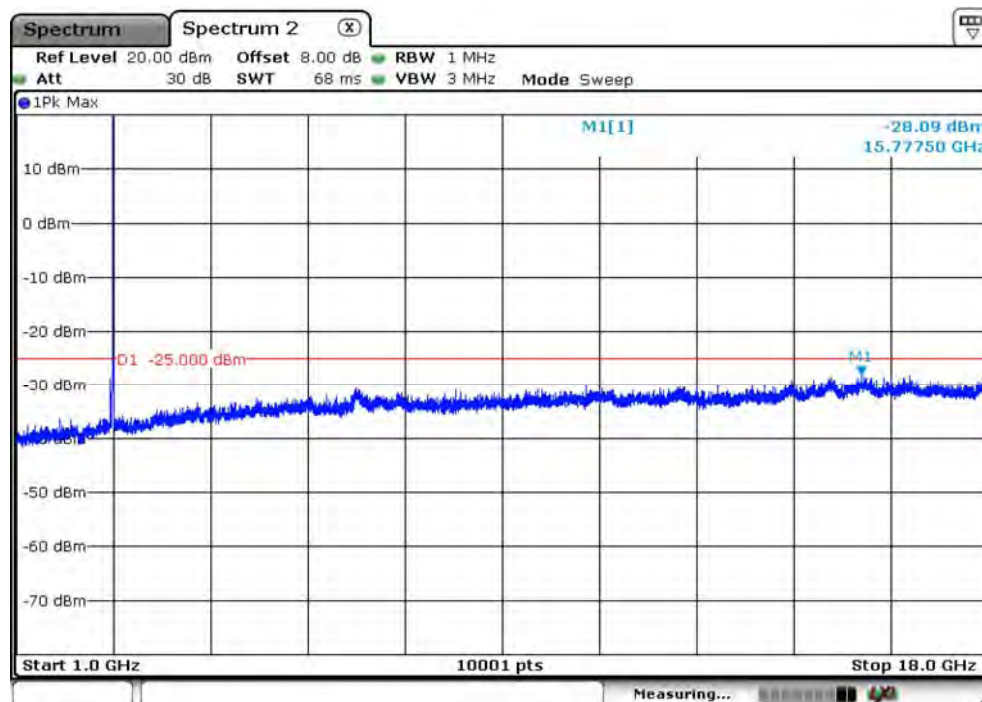
Date: 17.SEP.2020 16:48:14

## CA\_41C\_CH40595+CH40712\_20M+5M\_\_QPSK\_1RB99+1RB0\_Below 1G



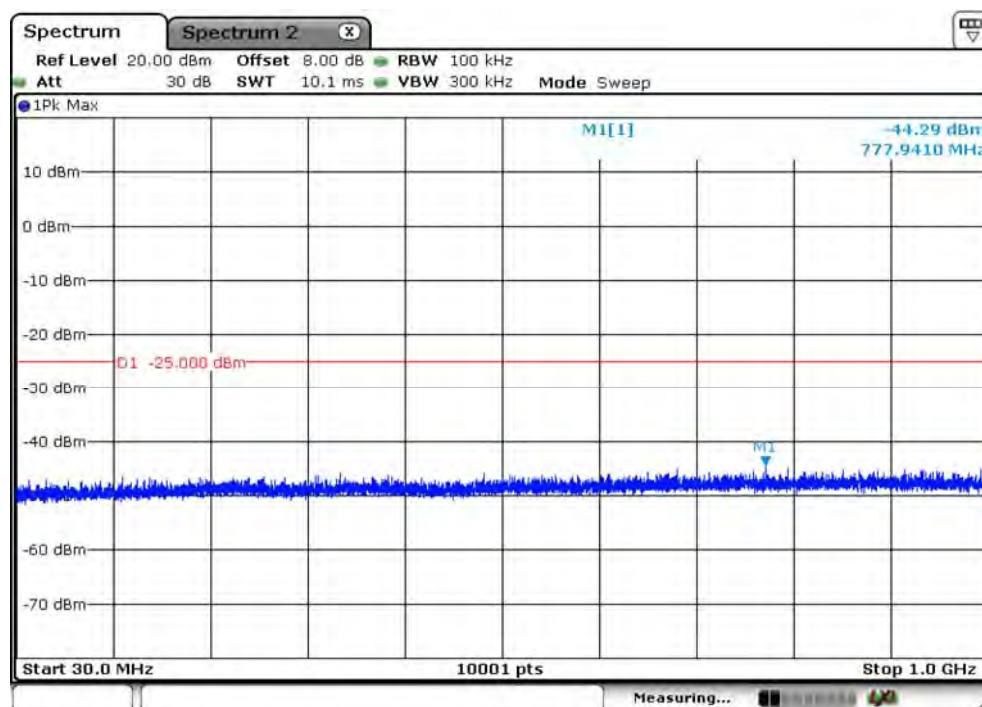
Date: 17.SEP.2020 16:50:49

## CA\_41C\_CH41440+CH41557\_20M+5M\_\_QPSK\_1RB99+1RB0\_Above 1G



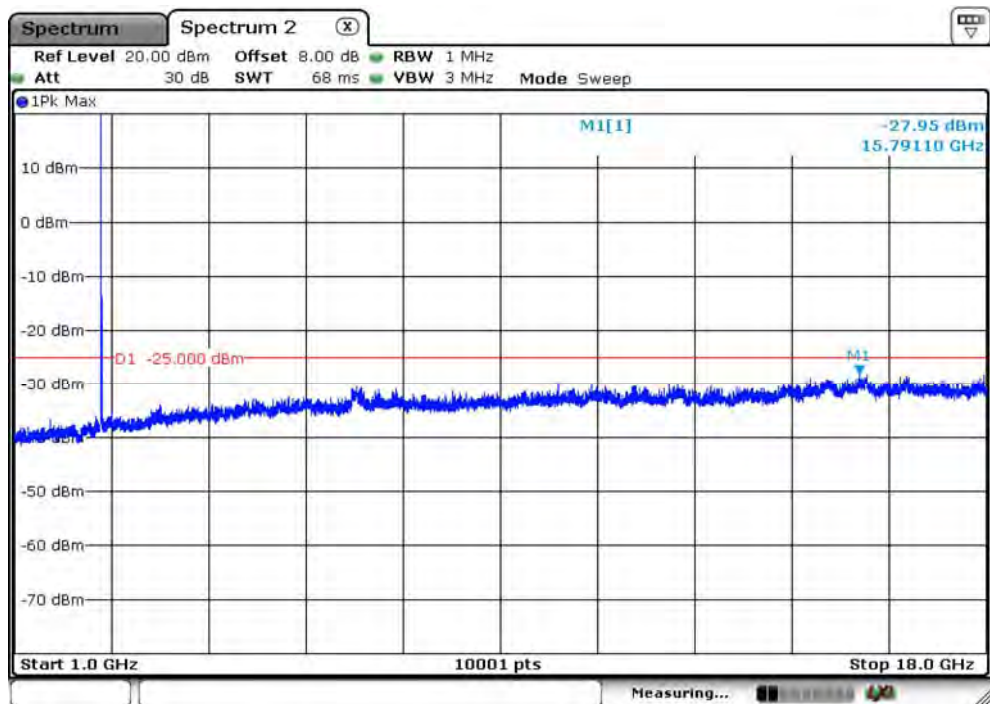
Date: 17.SEP.2020 16:49:25

## CA\_41C\_CH41440+CH41557\_20M+5M\_\_QPSK\_1RB99+1RB0\_Below 1G



Date: 17.SEP.2020 16:51:24

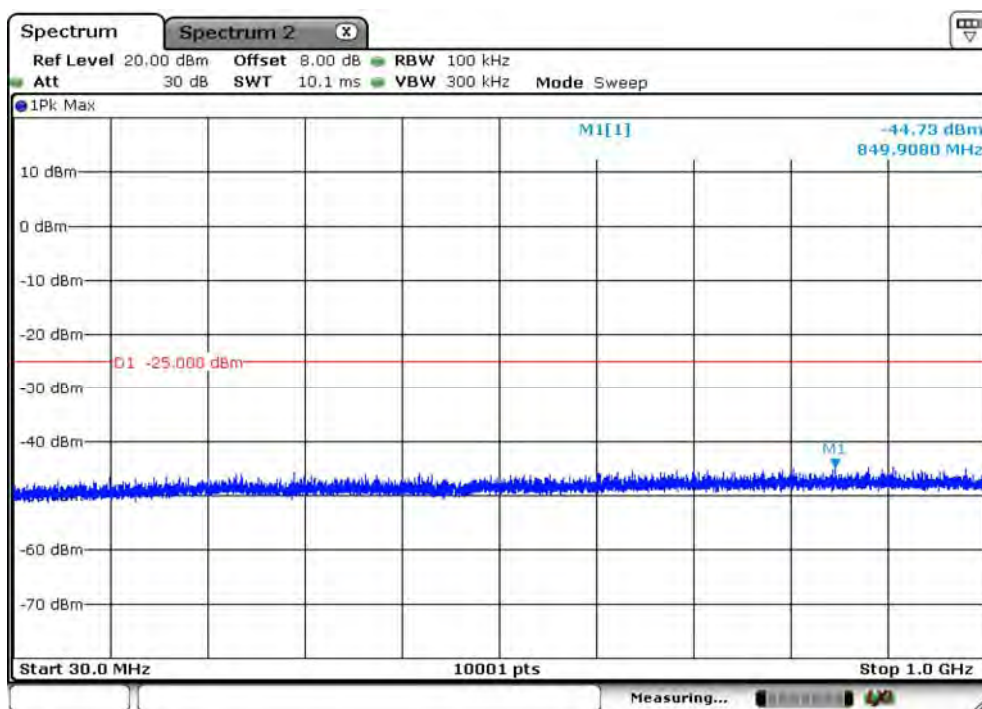
CA\_41C\_CH39750+CH39894\_20M+10M\_QPSK\_1RB99+1RB0\_Above 1G



Date: 17.SEP.2020 16:55:09

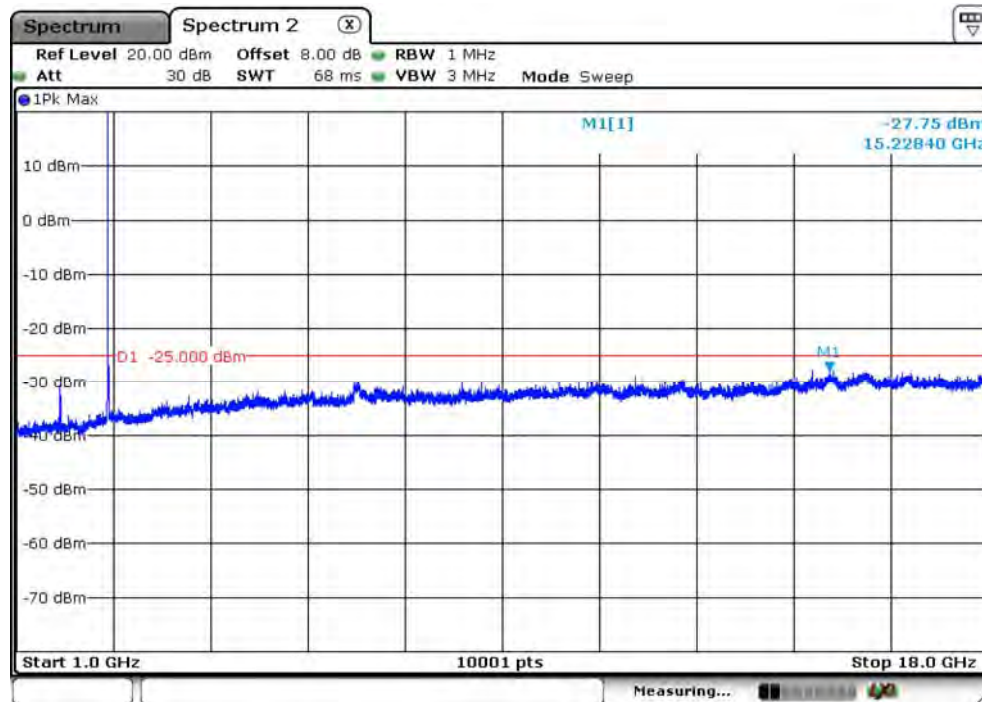
1G

CA\_41C\_CH39750+CH39894\_20M+10M\_QPSK\_1RB99+1RB0\_Below 1G



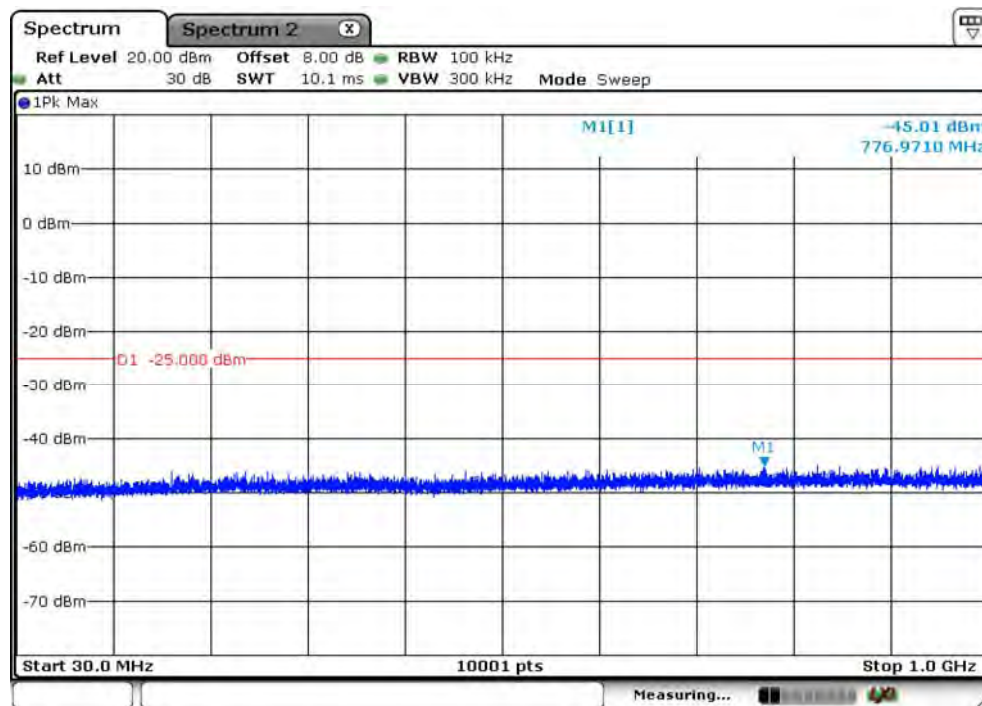
Date: 17.SEP.2020 16:52:36

## CA\_41C\_CH40571+CH40715\_20M+10M\_QPSK\_1RB99+1RB0\_Above 1G



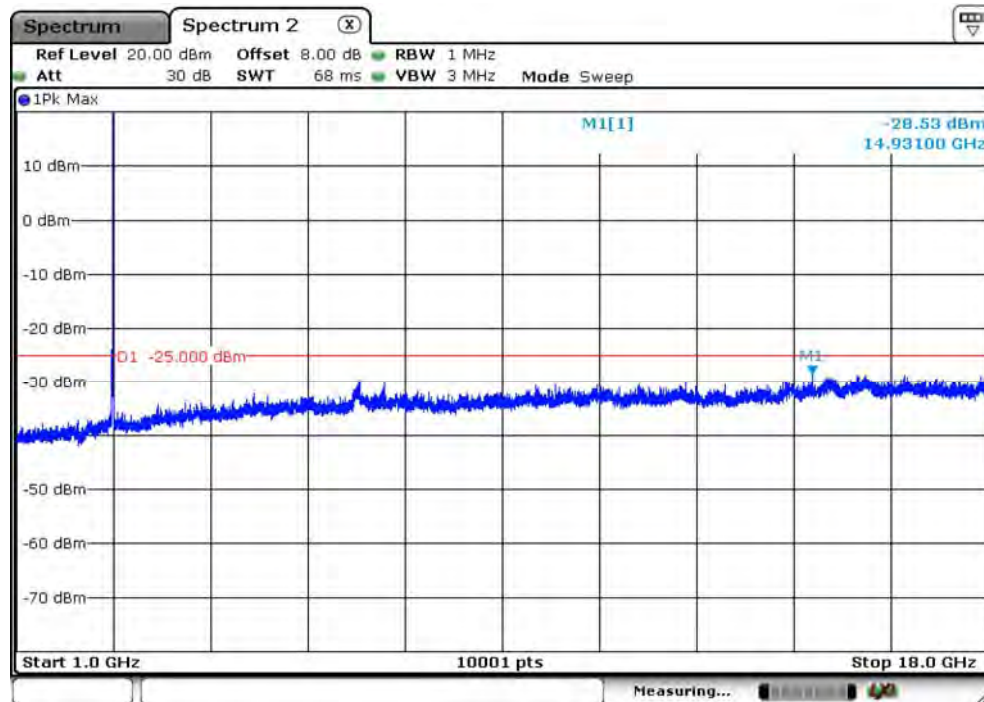
Date: 17.SEP.2020 17:00:39

## CA\_41C\_CH40571+CH40715\_20M+10M\_QPSK\_1RB99+1RB0\_Below 1G



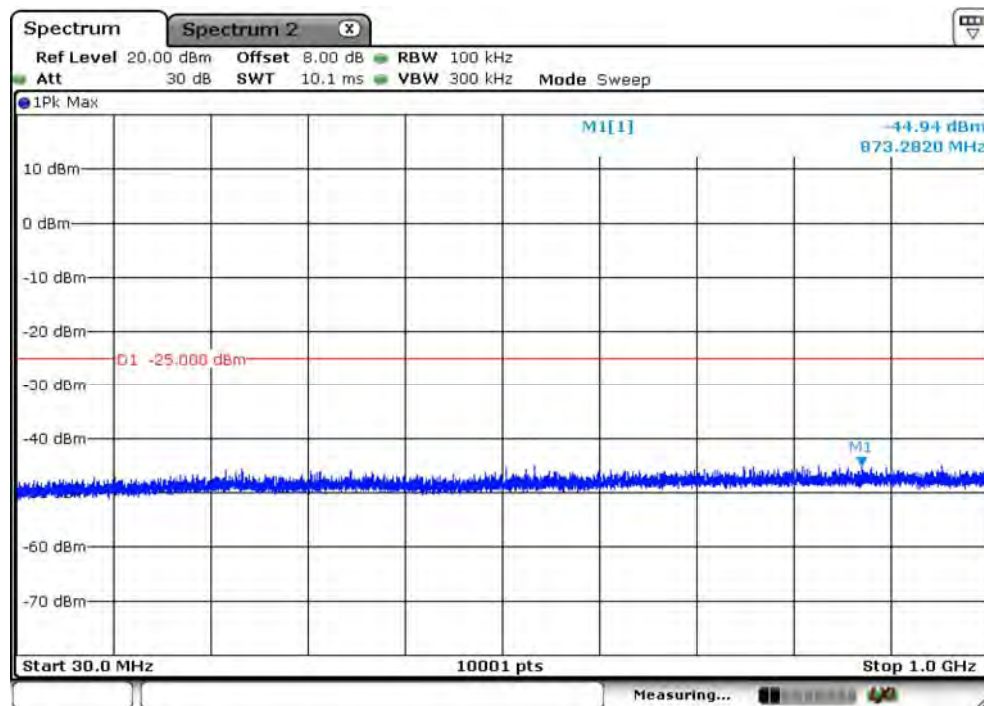
Date: 17.SEP.2020 16:53:20

## CA\_41C\_CH41391+CH41535\_20M+10M\_QPSK\_1RB99+1RB0\_Above 1G



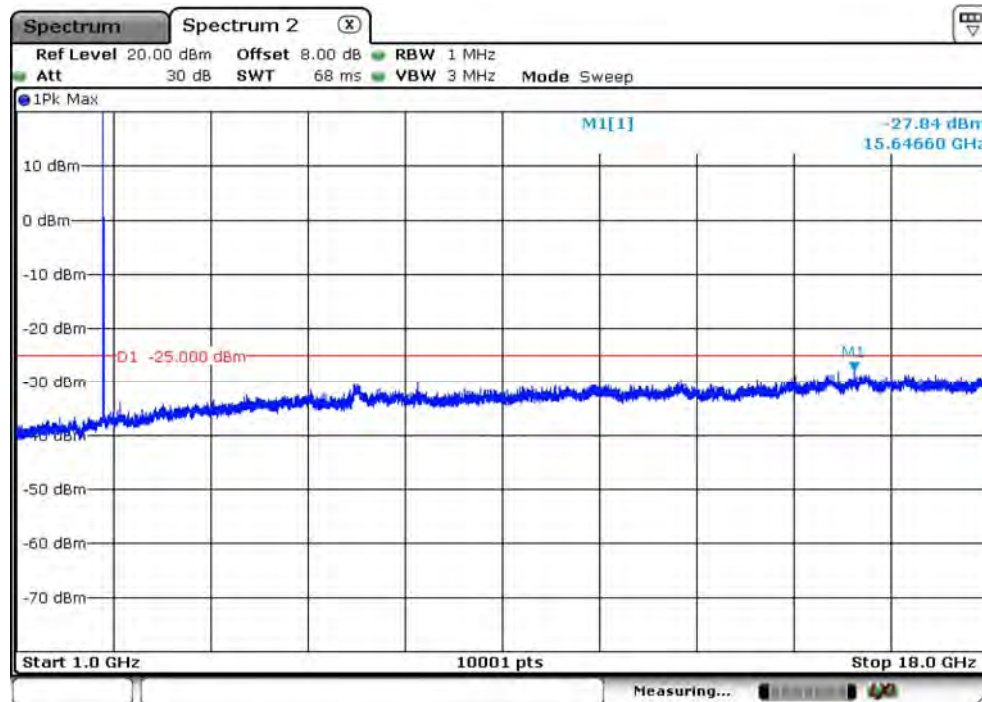
Date: 17.SEP.2020 17:01:15

## CA\_41C\_CH41391+CH41535\_20M+10M\_QPSK\_1RB99+1RB0\_Below 1G



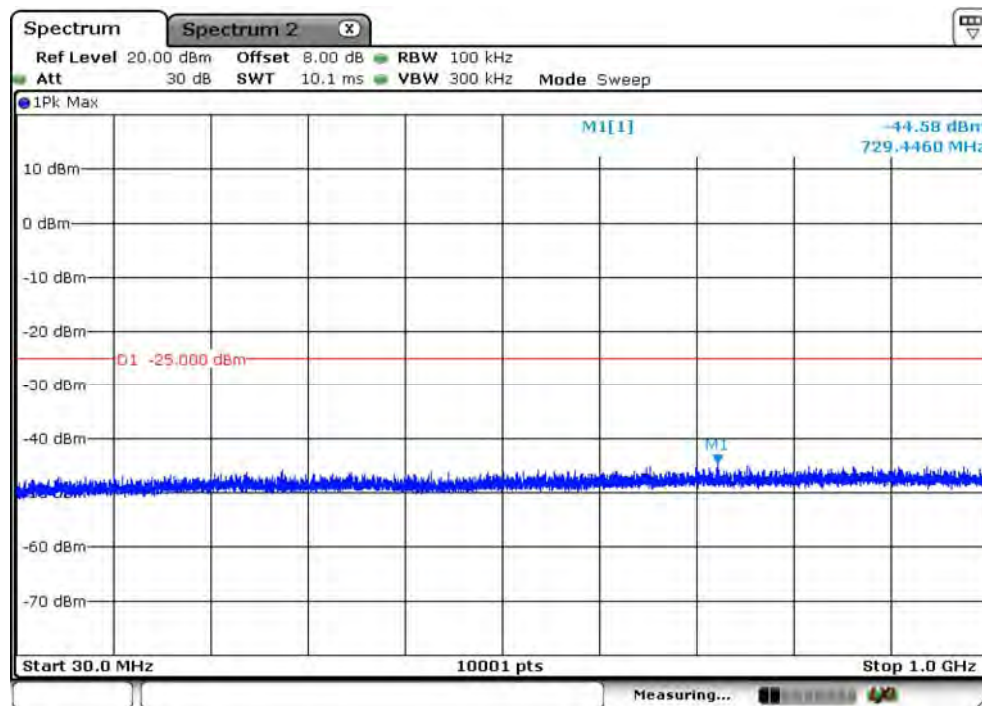
Date: 17.SEP.2020 16:54:13

## CA\_41C\_CH39750+CH39921\_20M+15M\_QPSK\_1RB99+1RB0\_Above 1G



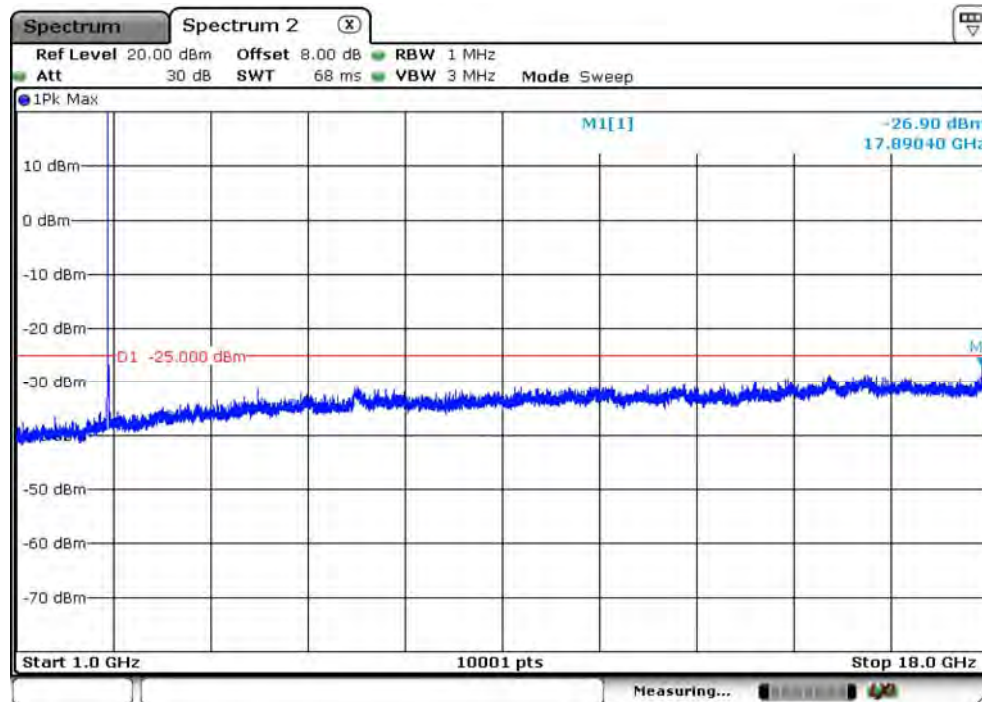
Date: 17.SEP.2020 17:04:08

## CA\_41C\_CH39750+CH39921\_20M+15M\_QPSK\_1RB99+1RB0\_Below 1G



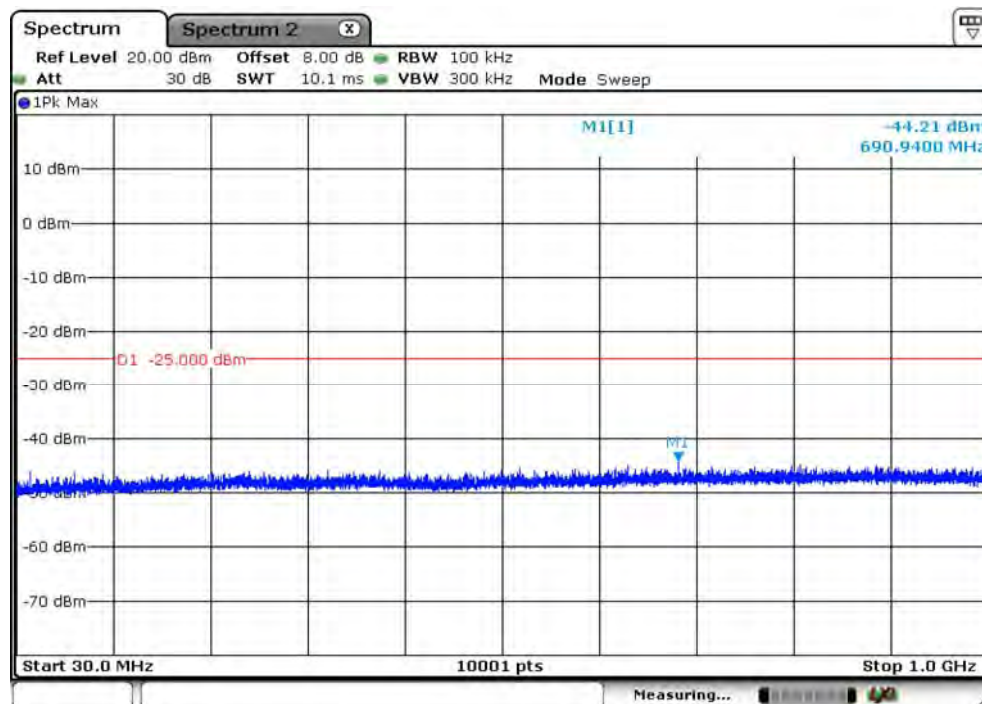
Date: 17.SEP.2020 17:06:31

## CA\_41C\_CH40546+CH40717\_20M+15M\_QPSK\_1RB99+1RB0\_Above 1G



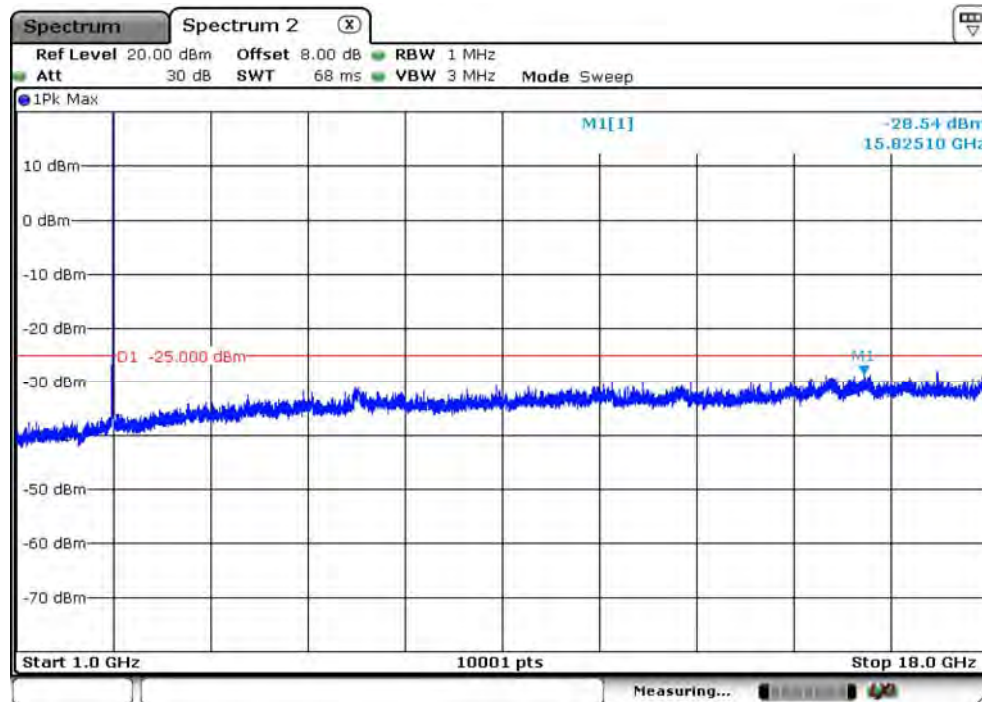
Date: 17.SEP.2020 17:04:59

## CA\_41C\_CH40546+CH40717\_20M+15M\_QPSK\_1RB99+1RB0\_Below 1G



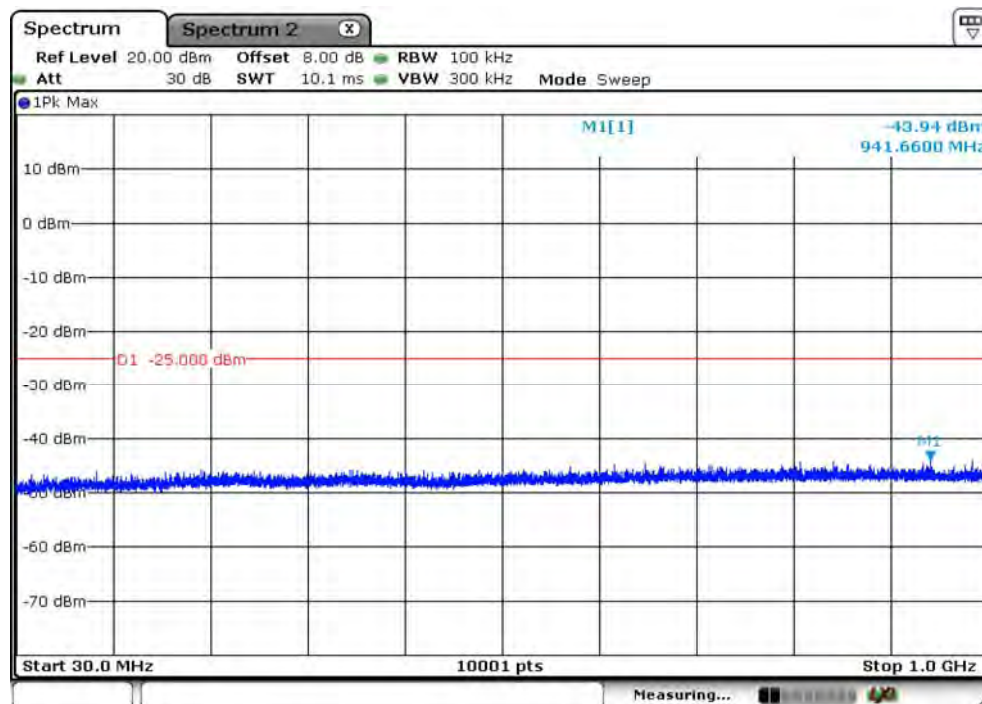
Date: 17.SEP.2020 17:08:01

## CA\_41C\_CH41341+CH41512\_20M+15M\_QPSK\_1RB99+1RB0\_Above 1G



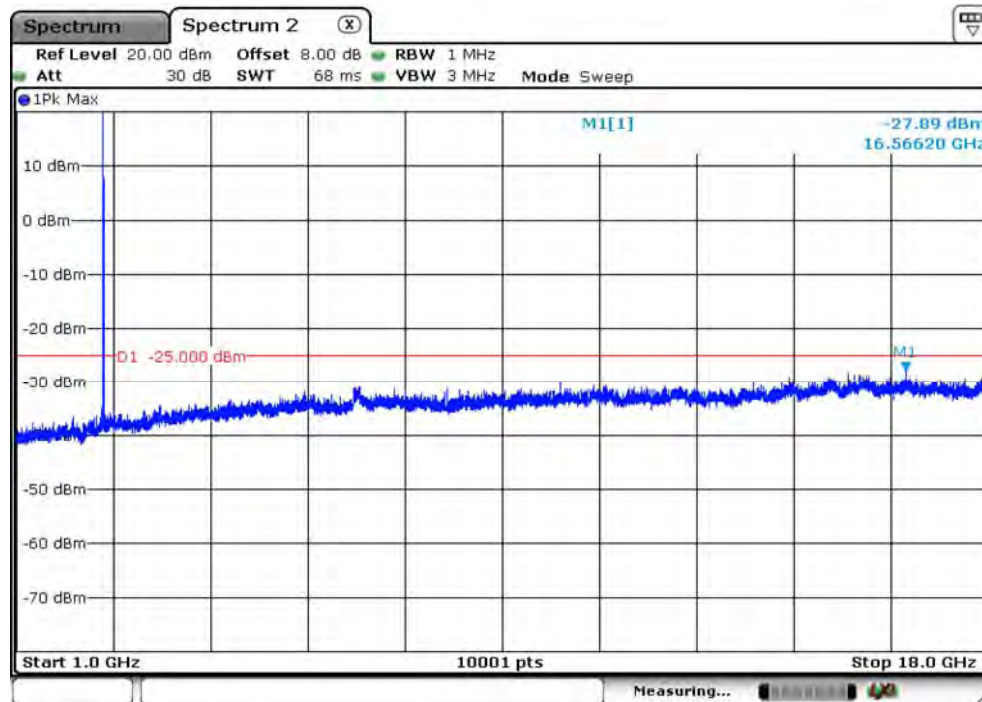
Date: 17.SEP.2020 17:05:36

## CA\_41C\_CH41341+CH41512\_20M+15M\_QPSK\_1RB99+1RB0\_Below 1G

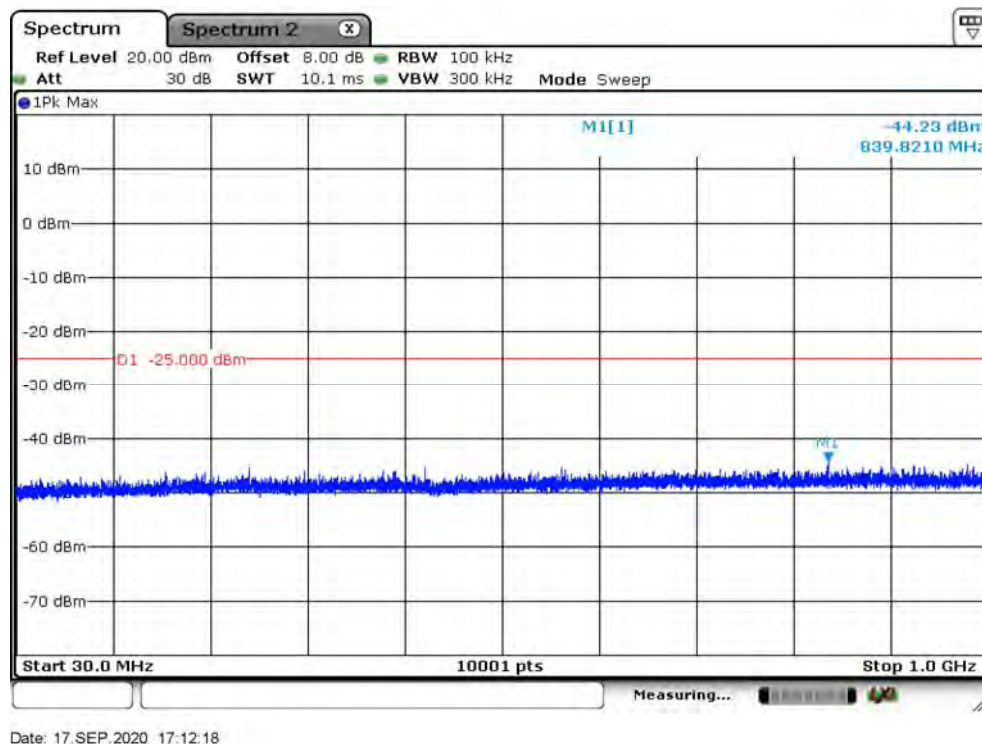


Date: 17.SEP.2020 17:11:13

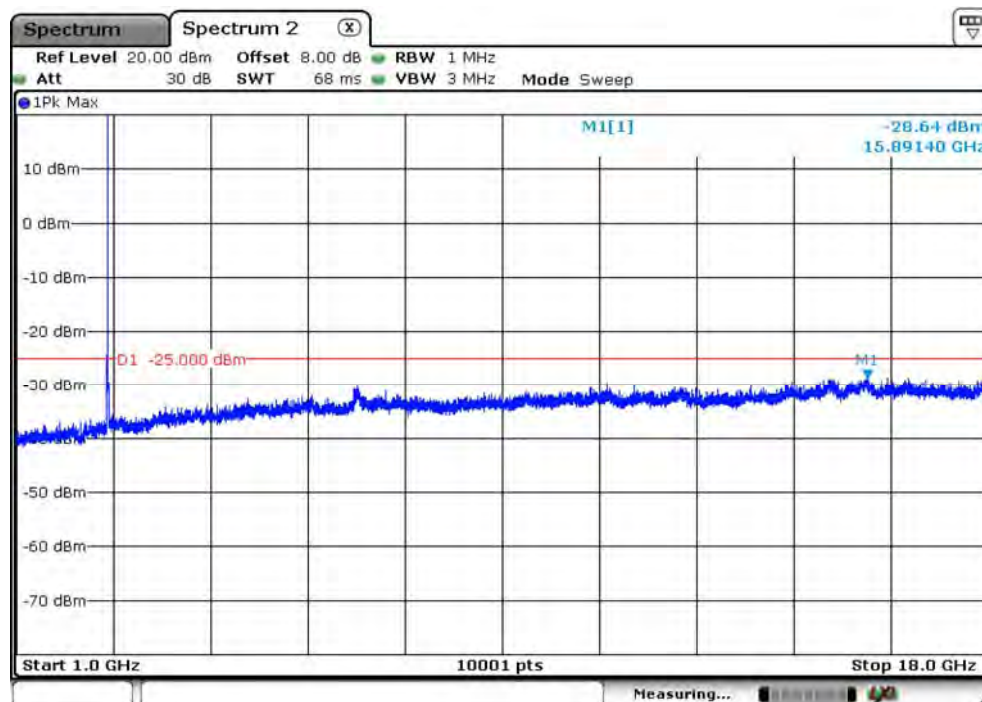
## CA\_41C\_CH39750+CH39948\_20M+20M\_QPSK\_1RB99+1RB0\_Above 1G



## CA\_41C\_CH39750+CH39948\_20M+20M\_QPSK\_1RB99+1RB0\_Below 1G

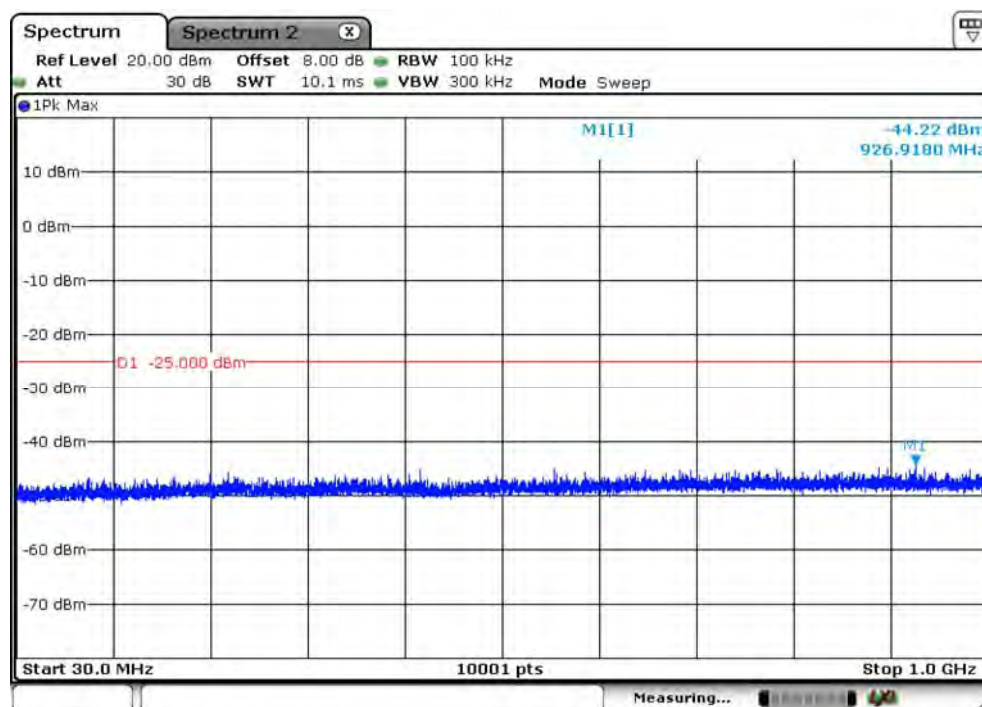


## CA\_41C\_CH40521+CH40719\_20M+20M\_QPSK\_1RB99+1RB0\_Above 1G



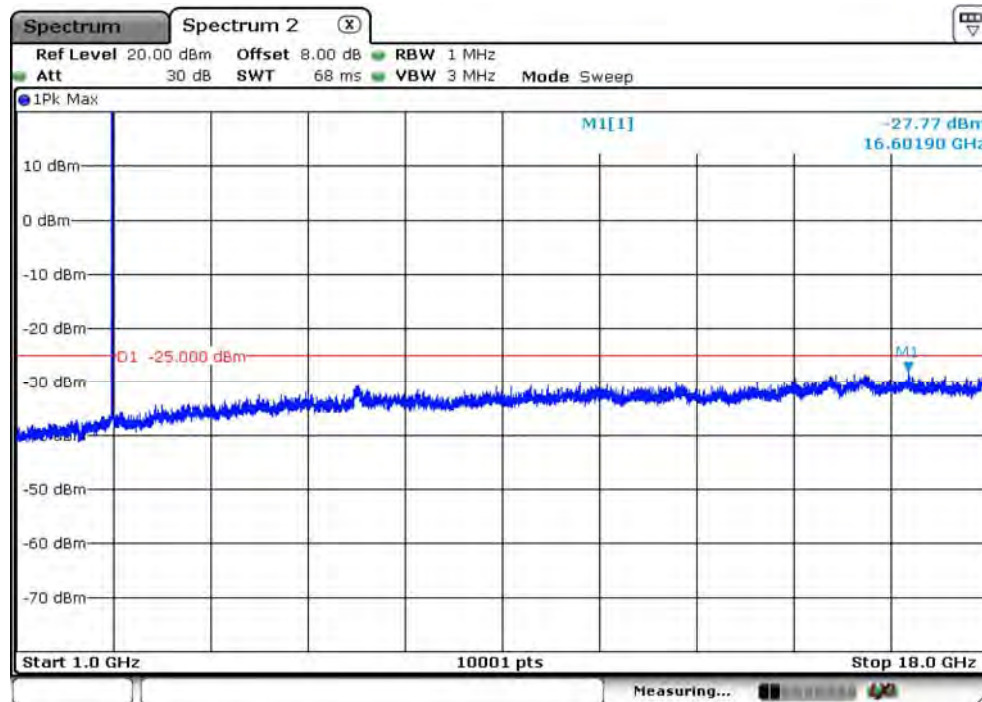
Date: 17.SEP.2020 17:15:26

## CA\_41C\_CH40521+CH40719\_20M+20M\_QPSK\_1RB99+1RB0\_Below 1G



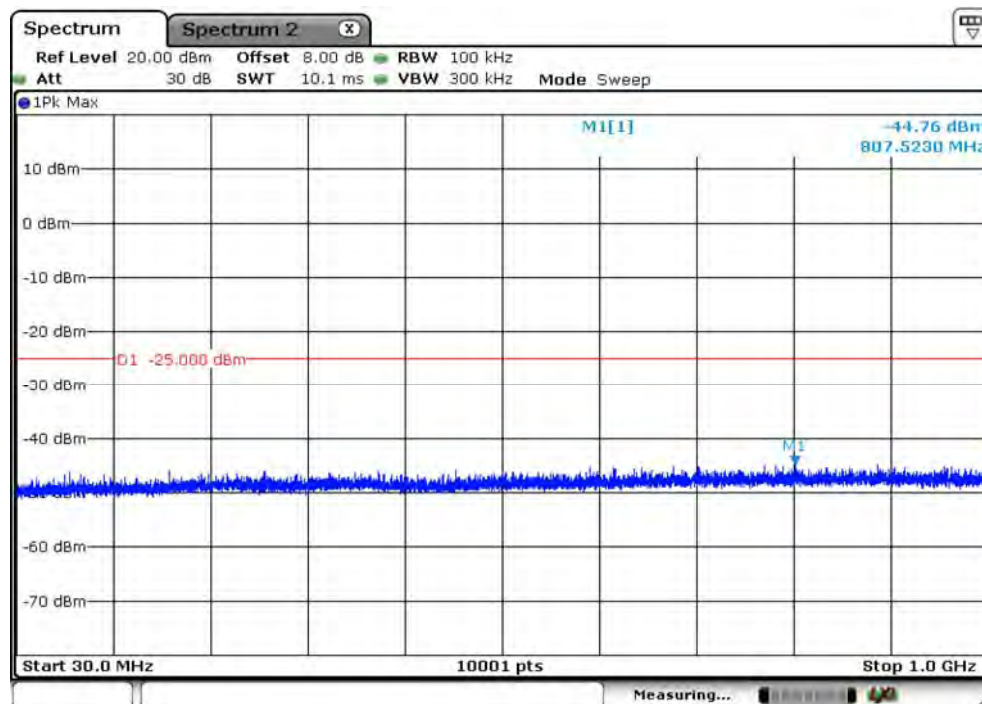
Date: 17.SEP.2020 17:12:58

## CA\_41C\_CH41292+CH41490\_20M+20M\_QPSK\_1RB99+1RB0\_Above 1G



Date: 17.SEP.2020 17:16:33

## CA\_41C\_CH41292+CH41490\_20M+20M\_QPSK\_1RB99+1RB0\_Below 1G



Date: 17.SEP.2020 17:13:50

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 1: LTE Band 2/25      |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW20M\_26140\_QPSK\_LTE Band25**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 3720.000        | -42.55               | -13         | -29.55      | -50.64         | 12.61              | 4.52            |
|                  | 5580.000        | -43.01               | -13         | -30.01      | -50.45         | 13.12              | 5.68            |
|                  | 7440.000        | -40.16               | -13         | -27.16      | -44.84         | 11.28              | 6.61            |
| V                | 3720.000        | -41.75               | -13         | -28.75      | -49.84         | 12.61              | 4.52            |
|                  | 5580.000        | -38.50               | -13         | -25.50      | -45.94         | 13.12              | 5.68            |
|                  | 7440.000        | -37.14               | -13         | -24.14      | -41.82         | 11.28              | 6.61            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_26365\_QPSK\_LTE Band25**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 3765.000        | -46.31               | -13         | -33.31      | -54.37         | 12.60              | 4.54            |
|                  | 5647.500        | -48.15               | -13         | -35.15      | -55.55         | 13.10              | 5.70            |
|                  | 7530.000        | -40.11               | -13         | -27.11      | -44.73         | 11.24              | 6.61            |
| V                | 3765.000        | -37.57               | -13         | -24.57      | -45.63         | 12.60              | 4.54            |
|                  | 5647.500        | -41.56               | -13         | -28.56      | -48.96         | 13.10              | 5.70            |
|                  | 7530.000        | -36.58               | -13         | -23.58      | -41.20         | 11.24              | 6.61            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_26590\_QPSK\_LTE Band25**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 3810.000        | -46.50               | -13         | -33.50      | -54.54         | 12.60              | 4.56            |
|                  | 5715.000        | -44.65               | -13         | -31.65      | -52.01         | 13.08              | 5.72            |
|                  | 7620.000        | -36.58               | -13         | -23.58      | -41.22         | 11.24              | 6.60            |
| V                | 3810.000        | -37.66               | -13         | -24.66      | -45.70         | 12.60              | 4.56            |
|                  | 5715.000        | -41.53               | -13         | -28.53      | -48.89         | 13.08              | 5.72            |
|                  | 7620.000        | -32.63               | -13         | -19.63      | -37.27         | 11.24              | 6.60            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 2: LTE Band 4/66      |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW20M\_CH 132072\_QPSK\_LTE Band66**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 3440.000        | -44.35               | -13         | -31.35      | -52.46         | 12.48              | 4.37            |
|                  | 5160.000        | -42.06               | -13         | -29.06      | -49.46         | 12.81              | 5.41            |
|                  | 6880.000        | -42.22               | -13         | -29.22      | -47.61         | 11.79              | 6.40            |
| V                | 3440.000        | -38.82               | -13         | -25.82      | -46.93         | 12.48              | 4.37            |
|                  | 5160.000        | -32.61               | -13         | -19.61      | -40.01         | 12.81              | 5.41            |
|                  | 6880.000        | -40.62               | -13         | -27.62      | -46.01         | 11.79              | 6.40            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_CH 132322\_QPSK\_LTE Band66**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 3490.000        | -47.62               | -13         | -34.62      | -55.81         | 12.59              | 4.40            |
|                  | 5235.000        | -36.44               | -13         | -23.44      | -43.86         | 12.88              | 5.46            |
|                  | 6980.000        | -43.85               | -13         | -30.85      | -49.01         | 11.67              | 6.51            |
| V                | 3490.000        | -41.69               | -13         | -28.69      | -49.88         | 12.59              | 4.40            |
|                  | 5235.000        | -25.22               | -13         | -12.22      | -32.64         | 12.88              | 5.46            |
|                  | 6980.000        | -42.29               | -13         | -29.29      | -47.45         | 11.67              | 6.51            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_CH 132572\_QPSK\_LTE Band66**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 3540.000        | -45.37               | -13         | -32.37      | -53.55         | 12.61              | 4.43            |
|                  | 5310.000        | -38.26               | -13         | -25.26      | -45.70         | 12.95              | 5.51            |
|                  | 7080.000        | -43.34               | -13         | -30.34      | -48.37         | 11.58              | 6.55            |
| V                | 3540.000        | -43.04               | -13         | -30.04      | -51.22         | 12.61              | 4.43            |
|                  | 5310.000        | -27.04               | -13         | -14.04      | -34.48         | 12.95              | 5.51            |
|                  | 7080.000        | -41.77               | -13         | -28.77      | -46.80         | 11.58              | 6.55            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                                 |                |       |
|-----------------|---------------------------------|----------------|-------|
| Product         | Module                          |                |       |
| Test Item       | Radiated Spurious Emission      |                |       |
| Test Mode       | Mode 3: LTE Band 5/26 (Part 22) |                |       |
| Date of Test    | 2020/08/25                      | Test Site      | CB2-H |
| Temperature(°C) | 25                              | Humidity (%RH) | 54    |

**BW15M\_26865\_QPSK\_LTE Band26**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1663.000        | -43.73               | -13         | -30.73      | -50.06         | 9.33               | 3.00            |
|                  | 2494.500        | -46.29               | -13         | -33.29      | -53.19         | 10.60              | 3.70            |
|                  | 3326.000        | -51.39               | -13         | -38.39      | -59.34         | 12.23              | 4.28            |
| V                | 1663.000        | -29.81               | -13         | -16.81      | -36.14         | 9.33               | 3.00            |
|                  | 2494.500        | -41.19               | -13         | -28.19      | -48.09         | 10.60              | 3.70            |
|                  | 3326.000        | -50.78               | -13         | -37.78      | -58.73         | 12.23              | 4.28            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW15M\_26915\_QPSK\_LTE Band26**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1673.000        | -43.70               | -13         | -30.70      | -50.05         | 9.36               | 3.01            |
|                  | 2509.500        | -45.53               | -13         | -32.53      | -52.44         | 10.62              | 3.71            |
|                  | 3346.000        | -50.71               | -13         | -37.71      | -58.69         | 12.27              | 4.30            |
| V                | 1673.000        | -29.11               | -13         | -16.11      | -35.46         | 9.36               | 3.01            |
|                  | 2509.500        | -40.89               | -13         | -27.89      | -47.80         | 10.62              | 3.71            |
|                  | 3346.000        | -50.64               | -13         | -37.64      | -58.62         | 12.27              | 4.30            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW15M\_26965\_QPSK\_LTE Band26**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1683.000        | -39.12               | -13         | -26.12      | -45.49         | 9.39               | 3.02            |
|                  | 2524.500        | -41.60               | -13         | -28.60      | -48.52         | 10.65              | 3.72            |
|                  | 3366.000        | -51.40               | -13         | -38.40      | -59.41         | 12.32              | 4.31            |
| V                | 1683.000        | -25.55               | -13         | -12.55      | -31.92         | 9.39               | 3.02            |
|                  | 2524.500        | -36.36               | -13         | -23.36      | -43.28         | 10.65              | 3.72            |
|                  | 3366.000        | -48.69               | -13         | -35.69      | -56.70         | 12.32              | 4.31            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 4: LTE Band 7         |                |       |
| Date of Test    | 2020/09/04                 | Test Site      | CB2-H |
| Temperature(°C) | 25                         | Humidity (%RH) | 54    |

**BW20M\_20850\_QPSK\_LTE Band07**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5020.000        | -47.69               | -25         | -22.69      | -55.05         | 12.67              | 5.31            |
|                  | 7530.000        | -41.04               | -25         | -16.04      | -45.66         | 11.24              | 6.61            |
|                  | 10040.000       | -38.36               | -25         | -13.36      | -42.92         | 12.06              | 7.49            |
| V                | 5020.000        | -43.35               | -25         | -18.35      | -50.71         | 12.67              | 5.31            |
|                  | 7530.000        | -40.36               | -25         | -15.36      | -44.98         | 11.24              | 6.61            |
|                  | 10040.000       | -35.81               | -25         | -10.81      | -40.37         | 12.06              | 7.49            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_21100\_QPSK\_LTE Band7**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5070.000        | -46.69               | -25         | -21.69      | -54.07         | 12.72              | 5.34            |
|                  | 7605.000        | -40.29               | -25         | -15.29      | -44.93         | 11.24              | 6.60            |
|                  | 10140.000       | -37.90               | -25         | -12.90      | -42.32         | 11.97              | 7.55            |
| V                | 5070.000        | -42.41               | -25         | -17.41      | -49.79         | 12.72              | 5.34            |
|                  | 7605.000        | -40.52               | -25         | -15.52      | -45.16         | 11.24              | 6.60            |
|                  | 10140.000       | -34.97               | -25         | -9.97       | -39.39         | 11.97              | 7.55            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_21350\_QPSK\_LTE Band7**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5120.000        | -46.91               | -25         | -21.91      | -54.30         | 12.77              | 5.38            |
|                  | 7680.000        | -39.22               | -25         | -14.22      | -43.87         | 11.24              | 6.59            |
|                  | 10240.000       | -36.68               | -25         | -11.68      | -40.96         | 11.88              | 7.60            |
| V                | 5120.000        | -43.22               | -25         | -18.22      | -50.61         | 12.77              | 5.38            |
|                  | 7680.000        | -39.45               | -25         | -14.45      | -44.10         | 11.24              | 6.59            |
|                  | 10240.000       | -33.49               | -25         | -8.49       | -37.77         | 11.88              | 7.60            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 5: LTE Band 12        |                |       |
| Date of Test    | 2020/08/24                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 59    |

**BW20M\_23060\_QPSK\_1RB0**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1408.000        | -48.76               | -13         | -35.76      | -54.32         | 8.31               | 2.75            |
|                  | 2112.000        | -51.88               | -13         | -38.88      | -58.88         | 10.41              | 3.41            |
|                  | 2816.000        | -63.18               | -13         | -50.18      | -70.44         | 11.18              | 3.92            |
| V                | 1408.000        | -32.73               | -13         | -19.73      | -38.29         | 8.31               | 2.75            |
|                  | 2112.000        | -41.57               | -13         | -28.57      | -48.57         | 10.41              | 3.41            |
|                  | 2816.000        | -62.74               | -13         | -49.74      | -70.00         | 11.18              | 3.92            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_23095\_QPSK\_1RB0**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1415.000        | -41.93               | -13         | -28.93      | -47.53         | 8.35               | 2.75            |
|                  | 2122.500        | -47.12               | -13         | -34.12      | -54.11         | 10.41              | 3.42            |
|                  | 2830.000        | -60.66               | -13         | -47.66      | -67.94         | 11.21              | 3.93            |
| V                | 1415.000        | -24.04               | -13         | -11.04      | -29.64         | 8.35               | 2.75            |
|                  | 2122.500        | -33.60               | -13         | -20.60      | -40.59         | 10.41              | 3.42            |
|                  | 2830.000        | -57.08               | -13         | -44.08      | -64.36         | 11.21              | 3.93            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_23130\_QPSK\_1RB0**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1422.000        | -40.50               | -13         | -27.50      | -46.13         | 8.39               | 2.76            |
|                  | 2133.000        | -43.85               | -13         | -30.85      | -50.84         | 10.42              | 3.42            |
|                  | 2844.000        | -58.77               | -13         | -45.77      | -66.07         | 11.23              | 3.94            |
| V                | 1422.000        | -23.96               | -13         | -10.96      | -29.59         | 8.39               | 2.76            |
|                  | 2133.000        | -32.38               | -13         | -19.38      | -39.37         | 10.42              | 3.42            |
|                  | 2844.000        | -55.22               | -13         | -42.22      | -62.52         | 11.23              | 3.94            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 6: LTE Band 13        |                |       |
| Date of Test    | 2020/08/25                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW10M\_23230\_QPSK\_LTE Band13**

| Antenna<br>Polarity | Frequency<br>(MHz) | Emission Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | SG Level<br>(dBm) | Antenna Gain<br>(dBi) | Cable Loss<br>(dB) |
|---------------------|--------------------|-------------------------|----------------|----------------|-------------------|-----------------------|--------------------|
| H                   | 1564.000           | -30.30                  | -13            | -17.30         | -36.43            | 9.03                  | 2.91               |
|                     | 2346.000           | -28.56                  | -13            | -15.56         | -35.50            | 10.52                 | 3.59               |
|                     | 3128.000           | -44.66                  | -13            | -31.66         | -52.32            | 11.80                 | 4.14               |
| V                   | 1564.000           | -15.57                  | -13            | -2.57          | -21.70            | 9.03                  | 2.91               |
|                     | 2346.000           | -21.07                  | -13            | -8.07          | -28.01            | 10.52                 | 3.59               |
|                     | 3128.000           | -38.34                  | -13            | -25.34         | -46.00            | 11.80                 | 4.14               |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 7: LTE Band 14        |                |       |
| Date of Test    | 2020/08/25                 | Test Site      | CB2-H |
| Temperature(°C) | 25                         | Humidity (%RH) | 54    |

**BW10M\_23330\_QPSK\_LTE Band14**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1586.000        | -25.33               | -13         | -12.33      | -31.50         | 9.10               | 2.93            |
|                  | 2379.000        | -29.73               | -13         | -16.73      | -36.66         | 10.54              | 3.61            |
|                  | 3172.000        | -41.66               | -13         | -28.66      | -49.39         | 11.89              | 4.17            |
| V                | 1586.000        | -13.58               | -13         | -0.58       | -19.75         | 9.10               | 2.93            |
|                  | 2379.000        | -20.84               | -13         | -7.84       | -27.77         | 10.54              | 3.61            |
|                  | 3172.000        | -37.30               | -13         | -24.30      | -45.03         | 11.89              | 4.17            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                               |                |       |
|-----------------|-------------------------------|----------------|-------|
| Product         | Module                        |                |       |
| Test Item       | Radiated Spurious Emission    |                |       |
| Test Mode       | Mode 8: LTE Band 26 (Part 90) |                |       |
| Date of Test    | 2020/08/25                    | Test Site      | CB2-H |
| Temperature(°C) | 25                            | Humidity (%RH) | 54    |

**BW15M\_26965\_QPSK\_LTE Band26**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1638.000        | -38.40               | -13         | -25.40      | -44.68         | 9.26               | 2.98            |
|                  | 2457.000        | -44.16               | -13         | -31.16      | -51.07         | 10.58              | 3.67            |
|                  | 3276.000        | -51.83               | -13         | -38.83      | -59.71         | 12.12              | 4.25            |
| V                | 1638.000        | -24.10               | -13         | -11.10      | -30.38         | 9.26               | 2.98            |
|                  | 2457.000        | -34.11               | -13         | -21.11      | -41.02         | 10.58              | 3.67            |
|                  | 3276.000        | -49.14               | -13         | -36.14      | -57.02         | 12.12              | 4.25            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 9: LTE Band 41 (FCC)  |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW20M\_CH 39750\_QPSK\_LTE Band41**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5012.000        | -47.55               | -25         | -22.55      | -54.91         | 12.66              | 5.30            |
|                  | 7518.000        | -40.71               | -25         | -15.71      | -45.33         | 11.24              | 6.61            |
|                  | 10024.000       | -38.16               | -25         | -13.16      | -42.75         | 12.07              | 7.48            |
| V                | 5012.000        | -43.61               | -25         | -18.61      | -50.97         | 12.66              | 5.30            |
|                  | 7518.000        | -41.14               | -25         | -16.14      | -45.76         | 11.24              | 6.61            |
|                  | 10024.000       | -34.74               | -25         | -9.74       | -39.33         | 12.07              | 7.48            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_CH 40620\_QPSK\_LTE Band41**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5186.000        | -47.09               | -25         | -22.09      | -54.50         | 12.83              | 5.43            |
|                  | 7779.000        | -40.61               | -25         | -15.61      | -45.28         | 11.25              | 6.58            |
|                  | 10372.000       | -34.89               | -25         | -9.89       | -38.99         | 11.77              | 7.67            |
| V                | 5186.000        | -41.43               | -25         | -16.43      | -48.84         | 12.83              | 5.43            |
|                  | 7779.000        | -40.67               | -25         | -15.67      | -45.34         | 11.25              | 6.58            |
|                  | 10372.000       | -32.34               | -25         | -7.34       | -36.44         | 11.77              | 7.67            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_CH 41490\_QPSK\_LTE Band41**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5360.000        | -45.47               | -25         | -20.47      | -52.92         | 13.00              | 5.55            |
|                  | 8040.000        | -40.53               | -25         | -15.53      | -45.27         | 11.31              | 6.57            |
|                  | 10720.000       | -33.85               | -25         | -8.85       | -37.64         | 11.60              | 7.81            |
| V                | 5360.000        | -41.17               | -25         | -16.17      | -48.62         | 13.00              | 5.55            |
|                  | 8040.000        | -40.01               | -25         | -15.01      | -44.75         | 11.31              | 6.57            |
|                  | 10720.000       | -29.37               | -25         | -4.37       | -33.16         | 11.60              | 7.81            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 9: LTE Band 41 (ISED) |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW20M\_CH 39790\_QPSK\_LTE Band41**

| Antenna<br>Polarity | Frequency<br>(MHz) | Emission Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | SG Level<br>(dBm) | Antenna Gain<br>(dBi) | Cable Loss<br>(dB) |
|---------------------|--------------------|-------------------------|----------------|----------------|-------------------|-----------------------|--------------------|
| H                   | 5020.000           | -48.75                  | -25            | -23.75         | -56.11            | 12.67                 | 5.31               |
|                     | 7530.000           | -40.64                  | -25            | -15.64         | -45.26            | 11.24                 | 6.61               |
|                     | 10040.000          | -37.76                  | -25            | -12.76         | -42.32            | 12.06                 | 7.49               |
| V                   | 5020.000           | -44.00                  | -25            | -19.00         | -51.36            | 12.67                 | 5.31               |
|                     | 7530.000           | -40.84                  | -25            | -15.84         | -45.46            | 11.24                 | 6.61               |
|                     | 10040.000          | -34.58                  | -25            | -9.58          | -39.14            | 12.06                 | 7.49               |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 10: LTE Band 71       |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW20M\_CH 133222\_QPSK\_LTE Band71**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1346.000        | -56.33               | -13         | -43.33      | -61.60         | 7.96               | 2.68            |
|                  | 2019.000        | -53.34               | -13         | -40.34      | -60.36         | 10.36              | 3.34            |
|                  | 2692.000        | -53.20               | -13         | -40.20      | -60.32         | 10.95              | 3.83            |
| V                | 1346.000        | -46.31               | -13         | -33.31      | -51.58         | 7.96               | 2.68            |
|                  | 2019.000        | -50.35               | -13         | -37.35      | -57.37         | 10.36              | 3.34            |
|                  | 2692.000        | -53.25               | -13         | -40.25      | -60.37         | 10.95              | 3.83            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_CH 133322\_QPSK\_LTE Band71**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1366.000        | -53.08               | -13         | -40.08      | -58.45         | 8.07               | 2.70            |
|                  | 2049.000        | -52.62               | -13         | -39.62      | -59.63         | 10.37              | 3.36            |
|                  | 2732.000        | -52.80               | -13         | -39.80      | -59.97         | 11.03              | 3.86            |
| V                | 1366.000        | -39.29               | -13         | -26.29      | -44.66         | 8.07               | 2.70            |
|                  | 2049.000        | -40.77               | -13         | -27.77      | -47.78         | 10.37              | 3.36            |
|                  | 2732.000        | -53.50               | -13         | -40.50      | -60.67         | 11.03              | 3.86            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20M\_CH 133372\_QPSK\_LTE Band71**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1376.000        | -50.81               | -13         | -37.81      | -56.23         | 8.13               | 2.71            |
|                  | 2064.000        | -53.30               | -13         | -40.30      | -60.31         | 10.38              | 3.37            |
|                  | 2752.000        | -53.21               | -13         | -40.21      | -60.40         | 11.06              | 3.87            |
| V                | 1376.000        | -37.40               | -13         | -24.40      | -42.82         | 8.13               | 2.71            |
|                  | 2064.000        | -40.26               | -13         | -27.26      | -47.27         | 10.38              | 3.37            |
|                  | 2752.000        | -52.53               | -13         | -39.53      | -59.72         | 11.06              | 3.87            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 11: LTE CA Band 5B    |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW10+10M\_Ch20450+Ch20549\_QPSK\_LTE Band 5**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1658.000        | -56.85               | -13         | -43.85      | -63.17         | 9.32               | 3.00            |
|                  | 1677.800        | -56.42               | -13         | -43.42      | -62.78         | 9.38               | 3.02            |
|                  | 2487.000        | -44.85               | -13         | -31.85      | -51.75         | 10.59              | 3.69            |
|                  | 2516.700        | -44.91               | -13         | -31.91      | -51.83         | 10.63              | 3.72            |
|                  | 3316.000        | -51.28               | -13         | -38.28      | -59.21         | 12.21              | 4.28            |
|                  | 3355.600        | -51.53               | -13         | -38.53      | -59.52         | 12.30              | 4.30            |
| V                | 1658.000        | -51.26               | -13         | -38.26      | -57.58         | 9.32               | 3.00            |
|                  | 1677.800        | -51.32               | -13         | -38.32      | -57.68         | 9.38               | 3.02            |
|                  | 2487.000        | -36.77               | -13         | -23.77      | -43.67         | 10.59              | 3.69            |
|                  | 2516.700        | -36.71               | -13         | -23.71      | -43.63         | 10.63              | 3.72            |
|                  | 3316.000        | -51.10               | -13         | -38.10      | -59.03         | 12.21              | 4.28            |
|                  | 3355.600        | -51.18               | -13         | -38.18      | -59.17         | 12.30              | 4.30            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW10+10M\_Ch20476+Ch20575\_QPSK\_LTE Band 5**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1663.200        | -56.06               | -13         | -43.06      | -62.39         | 9.33               | 3.00            |
|                  | 1683.000        | -56.17               | -13         | -43.17      | -62.54         | 9.39               | 3.02            |
|                  | 2494.800        | -41.55               | -13         | -28.55      | -48.45         | 10.60              | 3.70            |
|                  | 2524.500        | -41.20               | -13         | -28.20      | -48.12         | 10.65              | 3.72            |
|                  | 3326.400        | -51.67               | -13         | -38.67      | -59.62         | 12.23              | 4.28            |
|                  | 3366.000        | -51.23               | -13         | -38.23      | -59.24         | 12.32              | 4.31            |
| V                | 1663.200        | -48.05               | -13         | -35.05      | -54.38         | 9.33               | 3.00            |
|                  | 1683.000        | -48.91               | -13         | -35.91      | -55.28         | 9.39               | 3.02            |
|                  | 2494.800        | -33.79               | -13         | -20.79      | -40.69         | 10.60              | 3.70            |
|                  | 2524.500        | -33.62               | -13         | -20.62      | -40.54         | 10.65              | 3.72            |
|                  | 3326.400        | -51.23               | -13         | -38.23      | -59.18         | 12.23              | 4.28            |
|                  | 3366.000        | -51.71               | -13         | -38.71      | -59.72         | 12.32              | 4.31            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW10+10M\_Ch20501+Ch20600\_QPSK\_LTE Band 5**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 1668.200        | -56.21               | -13         | -43.21      | -62.55         | 9.35               | 3.01            |
|                  | 1688.000        | -56.08               | -13         | -43.08      | -62.46         | 9.41               | 3.02            |
|                  | 2502.300        | -38.38               | -13         | -25.38      | -45.28         | 10.60              | 3.71            |
|                  | 2532.000        | -38.39               | -13         | -25.39      | -45.32         | 10.66              | 3.73            |
|                  | 3336.400        | -50.88               | -13         | -37.88      | -58.84         | 12.25              | 4.29            |
|                  | 3376.000        | -50.93               | -13         | -37.93      | -58.95         | 12.34              | 4.32            |
| V                | 1668.200        | -48.97               | -13         | -35.97      | -55.31         | 9.35               | 3.01            |
|                  | 1688.000        | -48.67               | -13         | -35.67      | -55.05         | 9.41               | 3.02            |
|                  | 2502.300        | -31.25               | -13         | -18.25      | -38.15         | 10.60              | 3.71            |
|                  | 2532.000        | -30.67               | -13         | -17.67      | -37.60         | 10.66              | 3.73            |
|                  | 3336.400        | -51.53               | -13         | -38.53      | -59.49         | 12.25              | 4.29            |
|                  | 3376.000        | -51.39               | -13         | -38.39      | -59.41         | 12.34              | 4.32            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                            |                |       |
|-----------------|----------------------------|----------------|-------|
| Product         | Module                     |                |       |
| Test Item       | Radiated Spurious Emission |                |       |
| Test Mode       | Mode 12: LTE CA Band 7C    |                |       |
| Date of Test    | 2020/08/26                 | Test Site      | CB2-H |
| Temperature(°C) | 24                         | Humidity (%RH) | 54    |

**BW20+20M\_Ch20850+Ch21048\_QPSK\_LTE Band 7**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5020.000        | -47.55               | -25         | -22.55      | -54.91         | 12.67              | 5.31            |
|                  | 5059.600        | -47.72               | -25         | -22.72      | -55.09         | 12.71              | 5.33            |
|                  | 7530.000        | -40.70               | -25         | -15.70      | -45.32         | 11.24              | 6.61            |
|                  | 7589.400        | -40.20               | -25         | -15.20      | -44.84         | 11.24              | 6.60            |
|                  | 10040.000       | -41.46               | -25         | -16.46      | -46.02         | 12.06              | 7.49            |
|                  | 10119.200       | -40.37               | -25         | -15.37      | -44.82         | 11.99              | 7.53            |
| V                | 5020.000        | -43.34               | -25         | -18.34      | -50.70         | 12.67              | 5.31            |
|                  | 5059.600        | -43.53               | -25         | -18.53      | -50.90         | 12.71              | 5.33            |
|                  | 7530.000        | -40.93               | -25         | -15.93      | -45.55         | 11.24              | 6.61            |
|                  | 7589.400        | -40.26               | -25         | -15.26      | -44.90         | 11.24              | 6.60            |
|                  | 10040.000       | -38.76               | -25         | -13.76      | -43.32         | 12.06              | 7.49            |
|                  | 10119.200       | -38.92               | -25         | -13.92      | -43.37         | 11.99              | 7.53            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20+20M\_Ch21001+Ch21199\_QPSK\_LTE Band 7**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5050.200        | -48.26               | -25         | -23.26      | -55.63         | 12.70              | 5.33            |
|                  | 5089.800        | -48.55               | -25         | -23.55      | -55.93         | 12.74              | 5.36            |
|                  | 7575.300        | -40.25               | -25         | -15.25      | -44.88         | 11.24              | 6.61            |
|                  | 7634.700        | -40.35               | -25         | -15.35      | -44.99         | 11.24              | 6.60            |
|                  | 10100.400       | -38.79               | -25         | -13.79      | -43.27         | 12.00              | 7.52            |
|                  | 10179.600       | -38.95               | -25         | -13.95      | -43.32         | 11.94              | 7.57            |
| V                | 5050.200        | -44.15               | -25         | -19.15      | -51.52         | 12.70              | 5.33            |
|                  | 5089.800        | -48.16               | -25         | -23.16      | -55.54         | 12.74              | 5.36            |
|                  | 7575.300        | -40.15               | -25         | -15.15      | -44.78         | 11.24              | 6.61            |
|                  | 7634.700        | -40.57               | -25         | -15.57      | -45.21         | 11.24              | 6.60            |
|                  | 10100.400       | -37.55               | -25         | -12.55      | -42.03         | 12.00              | 7.52            |
|                  | 10179.600       | -38.04               | -25         | -13.04      | -42.41         | 11.94              | 7.57            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20+20M\_Ch21152+Ch21350\_QPSK\_LTE Band 7**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5080.400        | -48.99               | -25         | -23.99      | -56.37         | 12.73              | 5.35            |
|                  | 5120.000        | -49.24               | -25         | -24.24      | -56.63         | 12.77              | 5.38            |
|                  | 7620.600        | -40.27               | -25         | -15.27      | -44.91         | 11.24              | 6.60            |
|                  | 7680.000        | -40.39               | -25         | -15.39      | -45.04         | 11.24              | 6.59            |
|                  | 10160.800       | -39.84               | -25         | -14.84      | -44.23         | 11.95              | 7.56            |
|                  | 10240.000       | -38.50               | -25         | -13.50      | -42.78         | 11.88              | 7.60            |
| V                | 5080.400        | -44.53               | -25         | -19.53      | -51.91         | 12.73              | 5.35            |
|                  | 5120.000        | -44.36               | -25         | -19.36      | -51.75         | 12.77              | 5.38            |
|                  | 7620.600        | -40.68               | -25         | -15.68      | -45.32         | 11.24              | 6.60            |
|                  | 7680.000        | -39.41               | -25         | -14.41      | -44.06         | 11.24              | 6.59            |
|                  | 10160.800       | -36.58               | -25         | -11.58      | -40.97         | 11.95              | 7.56            |
|                  | 10240.000       | -36.73               | -25         | -11.73      | -41.01         | 11.88              | 7.60            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                                |                |       |
|-----------------|--------------------------------|----------------|-------|
| Product         | Module                         |                |       |
| Test Item       | Radiated Spurious Emission     |                |       |
| Test Mode       | Mode 13: LTE CA Band 41C (FCC) |                |       |
| Date of Test    | 2020/08/26                     | Test Site      | CB2-H |
| Temperature(°C) | 24                             | Humidity (%RH) | 54    |

**BW20+20M\_Ch39750+Ch39948\_QPSK\_LTE Band 41**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5012.000        | -49.18               | -25         | -24.18      | -56.54         | 12.66              | 5.30            |
|                  | 5051.600        | -49.04               | -25         | -24.04      | -56.41         | 12.70              | 5.33            |
|                  | 7518.000        | -40.78               | -25         | -15.78      | -45.40         | 11.24              | 6.61            |
|                  | 7577.400        | -40.31               | -25         | -15.31      | -44.94         | 11.24              | 6.61            |
|                  | 10024.000       | -40.30               | -25         | -15.30      | -44.89         | 12.07              | 7.48            |
|                  | 10103.200       | -40.56               | -25         | -15.56      | -45.04         | 12.00              | 7.53            |
| V                | 5012.000        | -45.41               | -25         | -20.41      | -52.77         | 12.66              | 5.30            |
|                  | 5051.600        | -44.60               | -25         | -19.60      | -51.97         | 12.70              | 5.33            |
|                  | 7518.000        | -40.99               | -25         | -15.99      | -45.61         | 11.24              | 6.61            |
|                  | 7577.400        | -40.45               | -25         | -15.45      | -45.08         | 11.24              | 6.61            |
|                  | 10024.000       | -35.41               | -25         | -10.41      | -40.00         | 12.07              | 7.48            |
|                  | 10103.200       | -36.01               | -25         | -11.01      | -40.49         | 12.00              | 7.53            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20+20M\_Ch40521+Ch40719\_QPSK\_LTE Band 41**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5166.200        | -48.35               | -25         | -23.35      | -55.75         | 12.81              | 5.41            |
|                  | 5205.800        | -47.86               | -25         | -22.86      | -55.27         | 12.85              | 5.44            |
|                  | 7749.300        | -40.53               | -25         | -15.53      | -45.20         | 11.25              | 6.58            |
|                  | 7808.700        | -40.53               | -25         | -15.53      | -45.21         | 11.25              | 6.57            |
|                  | 10332.400       | -37.53               | -25         | -12.53      | -41.68         | 11.80              | 7.65            |
|                  | 10411.600       | -36.29               | -25         | -11.29      | -40.33         | 11.74              | 7.69            |
| V                | 5166.200        | -42.15               | -25         | -17.15      | -49.55         | 12.81              | 5.41            |
|                  | 5205.800        | -42.17               | -25         | -17.17      | -49.58         | 12.85              | 5.44            |
|                  | 7749.300        | -40.12               | -25         | -15.12      | -44.79         | 11.25              | 6.58            |
|                  | 7808.700        | -40.24               | -25         | -15.24      | -44.92         | 11.25              | 6.57            |
|                  | 10332.400       | -34.65               | -25         | -9.65       | -38.80         | 11.80              | 7.65            |
|                  | 10411.600       | -33.88               | -25         | -8.88       | -37.92         | 11.74              | 7.69            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

**BW20+20M\_Ch41292+Ch41490\_QPSK\_LTE Band 41**

| Antenna Polarity | Frequency (MHz) | Emission Level (dBm) | Limit (dBm) | Margin (dB) | SG Level (dBm) | Antenna Gain (dBi) | Cable Loss (dB) |
|------------------|-----------------|----------------------|-------------|-------------|----------------|--------------------|-----------------|
| H                | 5320.400        | -47.75               | -25         | -22.75      | -55.19         | 12.96              | 5.52            |
|                  | 5360.000        | -44.67               | -25         | -19.67      | -52.12         | 13.00              | 5.55            |
|                  | 7980.600        | -41.26               | -25         | -16.26      | -45.97         | 11.26              | 6.55            |
|                  | 8040.000        | -40.74               | -25         | -15.74      | -45.48         | 11.31              | 6.57            |
|                  | 10640.800       | -39.19               | -25         | -14.19      | -43.02         | 11.62              | 7.79            |
|                  | 10720.000       | -37.41               | -25         | -12.41      | -41.20         | 11.60              | 7.81            |
| V                | 5320.400        | -39.56               | -25         | -14.56      | -47.00         | 12.96              | 5.52            |
|                  | 5360.000        | -39.52               | -25         | -14.52      | -46.97         | 13.00              | 5.55            |
|                  | 7980.600        | -40.24               | -25         | -15.24      | -44.95         | 11.26              | 6.55            |
|                  | 8040.000        | -39.92               | -25         | -14.92      | -44.66         | 11.31              | 6.57            |
|                  | 10640.800       | -36.10               | -25         | -11.10      | -39.93         | 11.62              | 7.79            |
|                  | 10720.000       | -32.57               | -25         | -7.57       | -36.36         | 11.60              | 7.81            |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

|                 |                                 |                |       |
|-----------------|---------------------------------|----------------|-------|
| Product         | Module                          |                |       |
| Test Item       | Radiated Spurious Emission      |                |       |
| Test Mode       | Mode 13: LTE CA Band 41C (ISED) |                |       |
| Date of Test    | 2020/08/26                      | Test Site      | CB2-H |
| Temperature(°C) | 24                              | Humidity (%RH) | 54    |

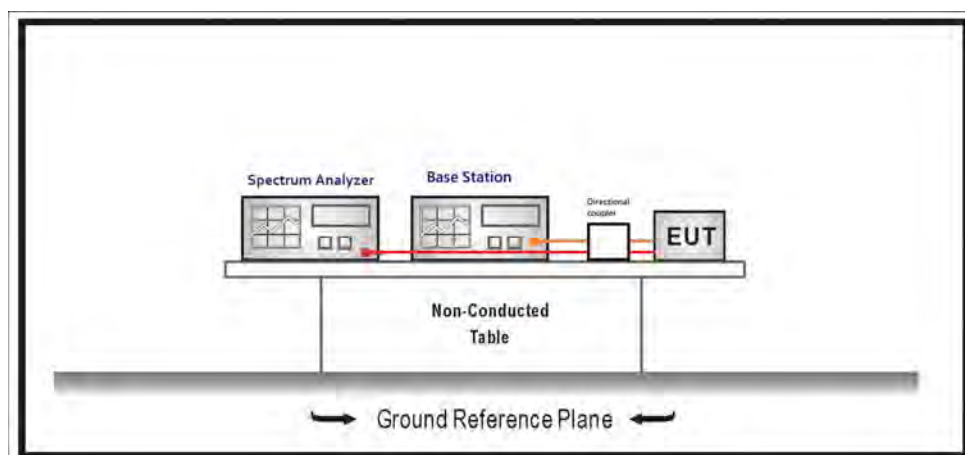
**BW20+20M\_Ch39790+Ch39988\_QPSK\_LTE Band 41**

| Antenna<br>Polarity | Frequency<br>(MHz) | Emission Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | SG Level<br>(dBm) | Antenna Gain<br>(dBi) | Cable Loss<br>(dB) |
|---------------------|--------------------|-------------------------|----------------|----------------|-------------------|-----------------------|--------------------|
| H                   | 5020.000           | -44.35                  | -13            | -31.35         | -51.71            | 12.67                 | 5.31               |
|                     | 5059.600           | -48.98                  | -13            | -35.98         | -56.35            | 12.71                 | 5.33               |
|                     | 7530.000           | -40.62                  | -13            | -27.62         | -45.24            | 11.24                 | 6.61               |
|                     | 7589.400           | -41.02                  | -13            | -28.02         | -45.66            | 11.24                 | 6.60               |
|                     | 10040.000          | -36.23                  | -13            | -23.23         | -40.79            | 12.06                 | 7.49               |
|                     | 10119.200          | -39.99                  | -13            | -26.99         | -44.44            | 11.99                 | 7.53               |
| V                   | 5020.000           | -48.99                  | -13            | -35.99         | -56.35            | 12.67                 | 5.31               |
|                     | 5059.600           | -43.99                  | -13            | -30.99         | -51.36            | 12.71                 | 5.33               |
|                     | 7530.000           | -39.88                  | -13            | -26.88         | -44.50            | 11.24                 | 6.61               |
|                     | 7589.400           | -41.02                  | -13            | -28.02         | -45.66            | 11.24                 | 6.60               |
|                     | 10040.000          | -40.25                  | -13            | -27.25         | -44.81            | 12.06                 | 7.49               |
|                     | 10119.200          | -37.11                  | -13            | -24.11         | -41.56            | 11.99                 | 7.53               |

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

## 7. Spurious Emissions at Antenna Terminals

### 7.1. Test Setup



### 7.2. Test Procedure

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

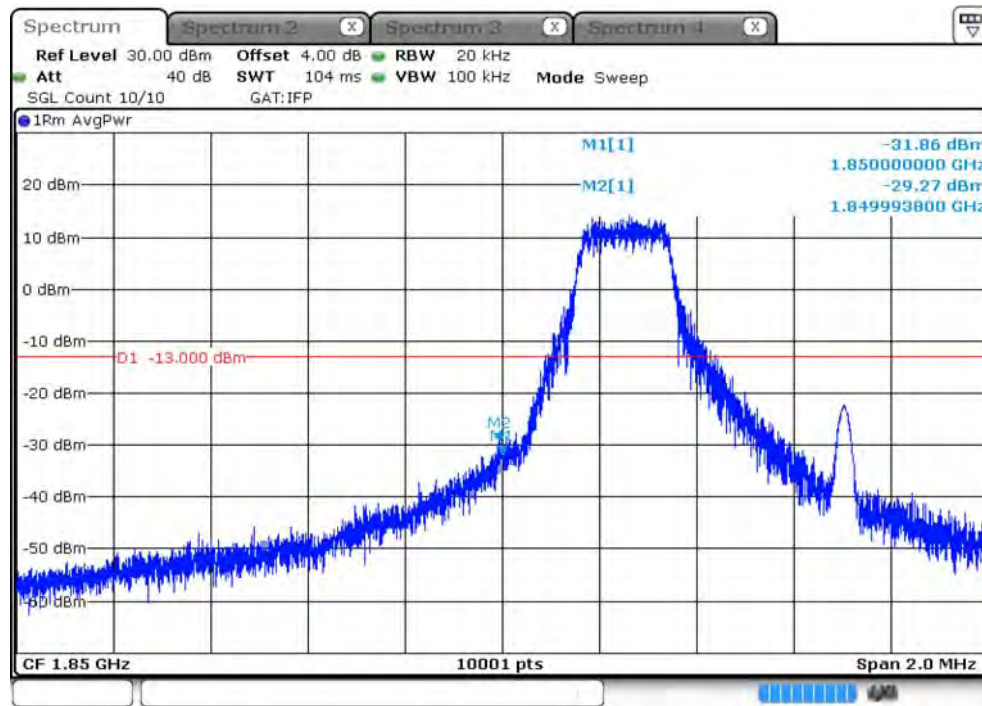
### 7.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1  
ANSI C63.26-2015 Sub-clause 5.7

## 7.4. Test Result

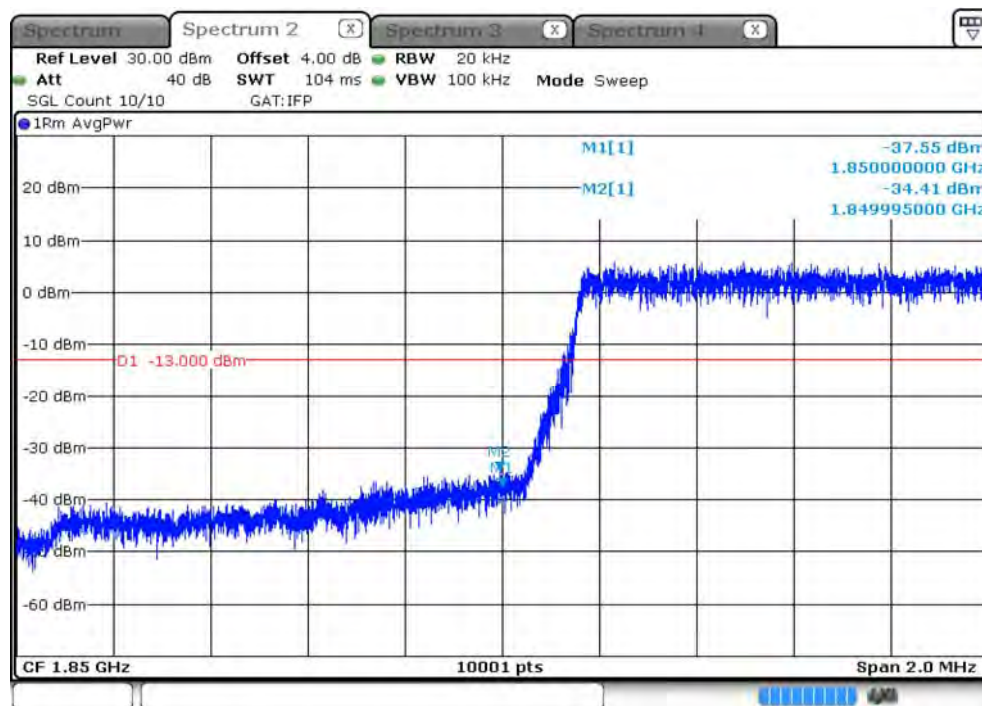
|                 |                                        |                |        |
|-----------------|----------------------------------------|----------------|--------|
| Product         | Module                                 |                |        |
| Test Item       | Spurious Emission at Antenna Terminals |                |        |
| Test Mode       | Mode 1: LTE Band 2/25                  |                |        |
| Date of Test    | 2020/09/01                             | Test Site      | SR12-H |
| Temperature(°C) | 23                                     | Humidity (%RH) | 64     |

LTE\_B25\_CH26047\_1.4M\_\_QPSK\_1RB0



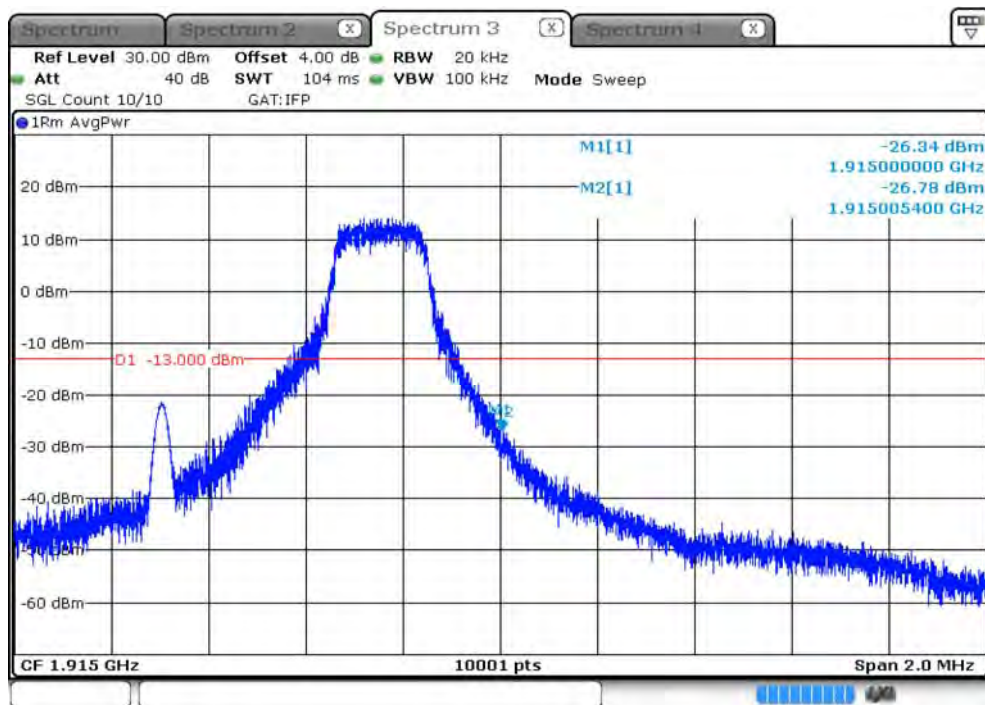
Date: 1.SEP.2020 14:12:46

LTE\_B25\_CH26047\_1.4M\_\_QPSK\_6RB0



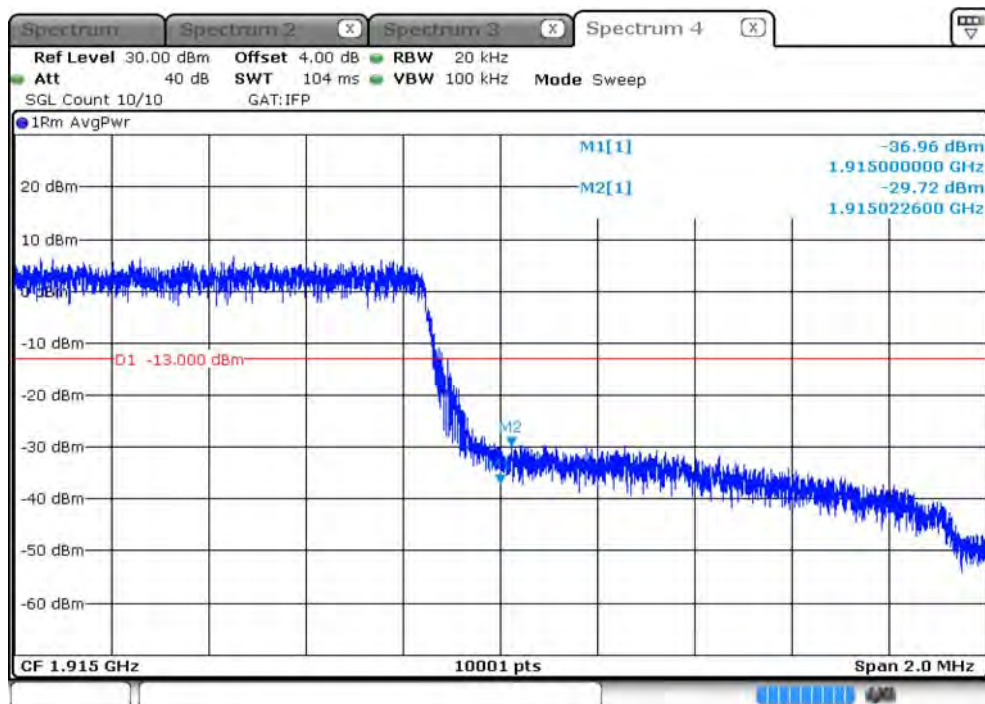
Date: 1.SEP.2020 14:14:50

## LTE\_B25\_CH26683\_1.4M\_QPSK\_1RB5



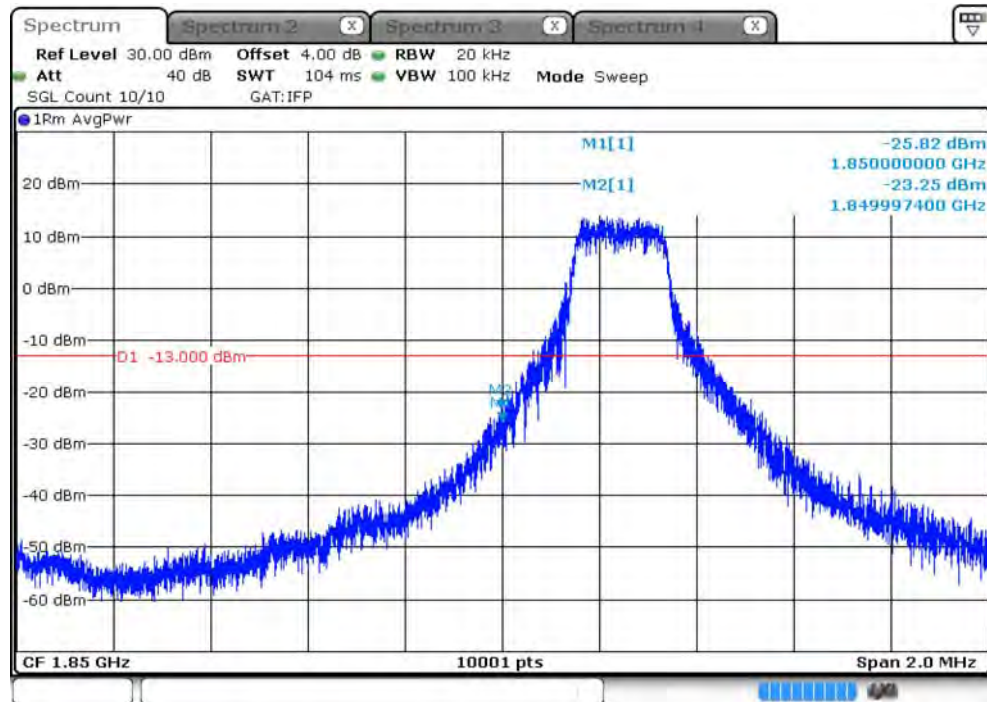
Date: 1.SEP.2020 14:16:44

## LTE\_B25\_CH26683\_1.4M\_QPSK\_6RB0



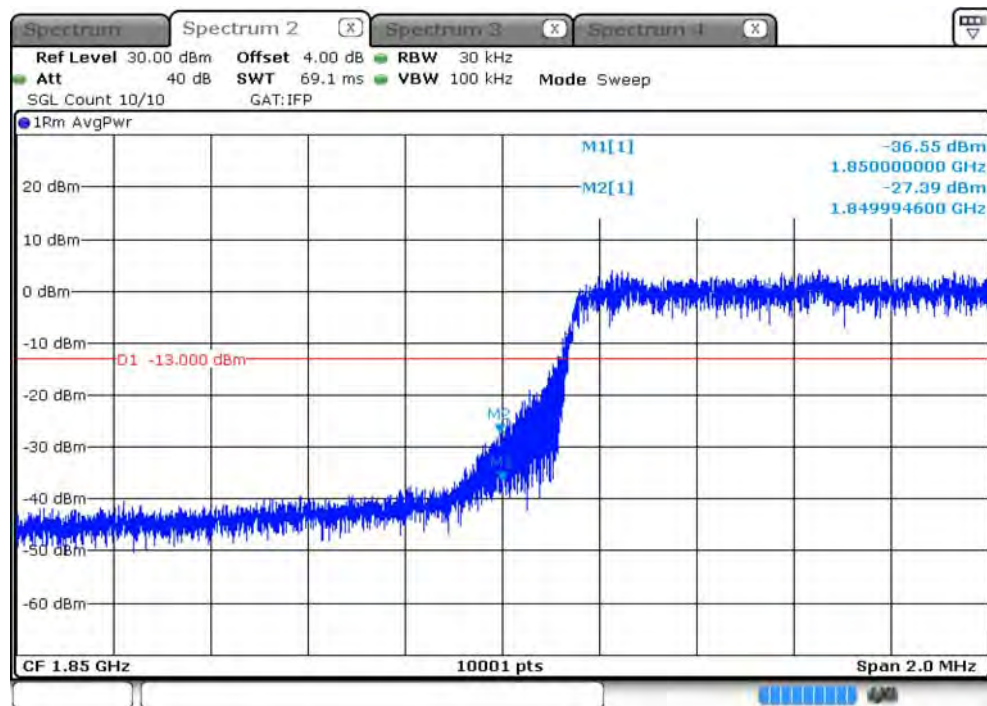
Date: 1.SEP.2020 14:15:44

## LTE\_B25\_CH26055\_3M\_QPSK\_1RB0



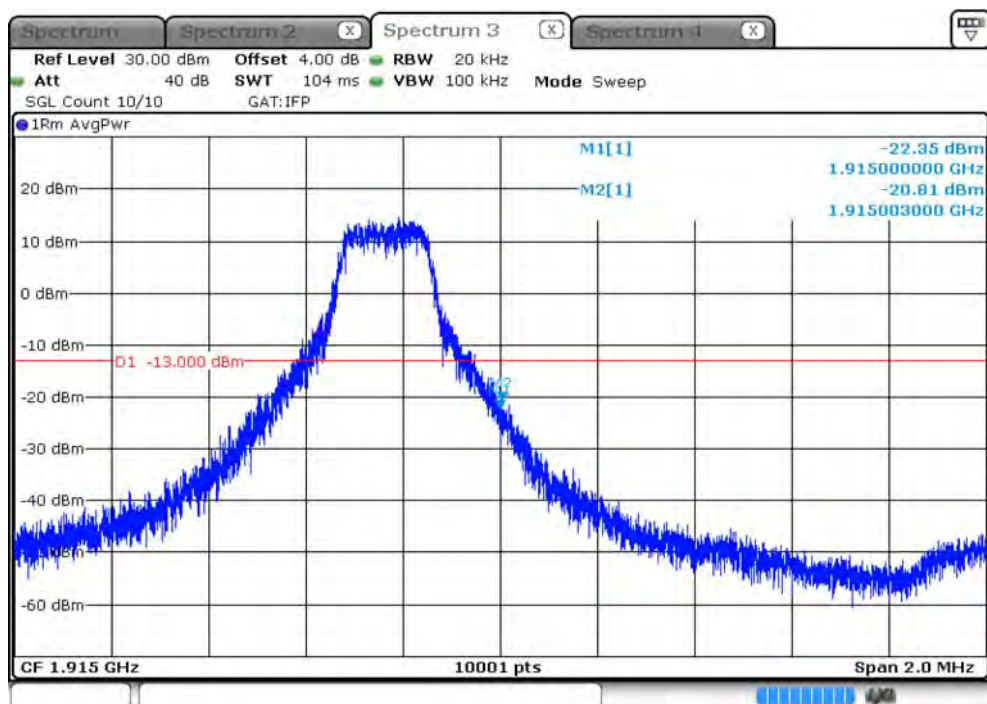
Date: 1.SEP.2020 14:19:41

## LTE\_B25\_CH26055\_3M\_QPSK\_15RB0



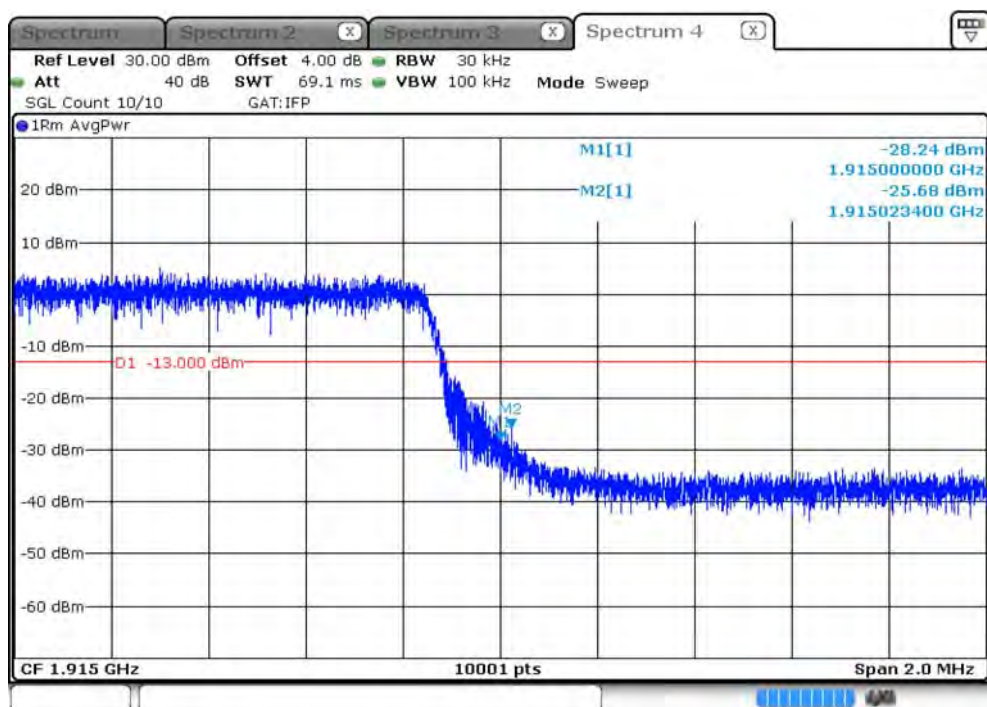
Date: 1.SEP.2020 14:23:46

## LTE\_B25\_CH26675\_3M\_QPSK\_1RB14



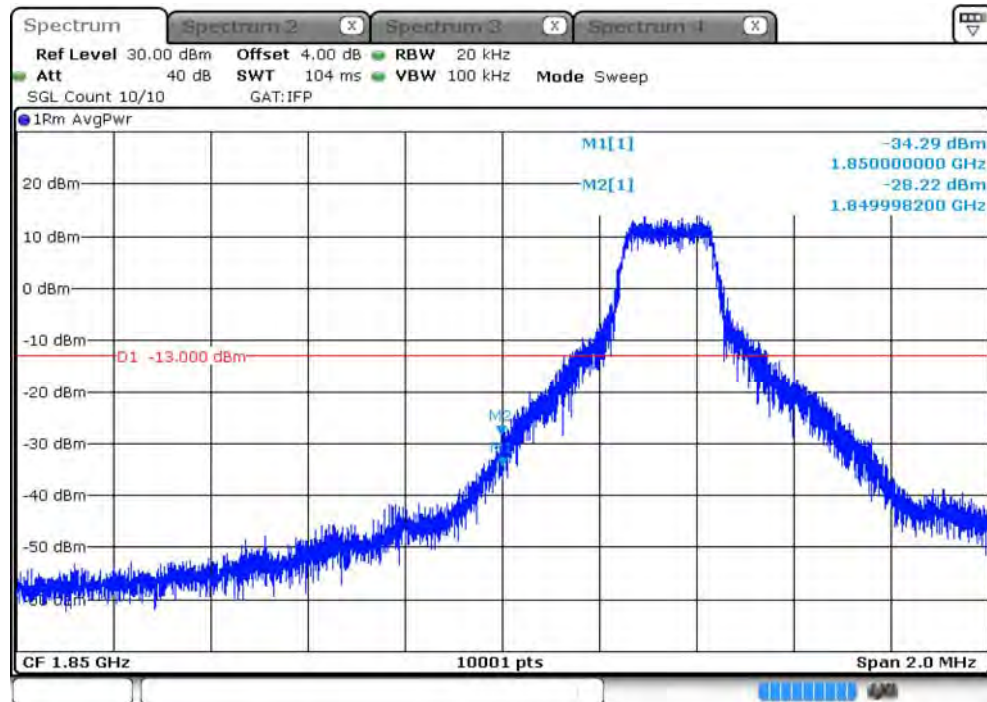
Date: 1.SEP.2020 14:26:46

## LTE\_B25\_CH26675\_3M\_QPSK\_15RB0



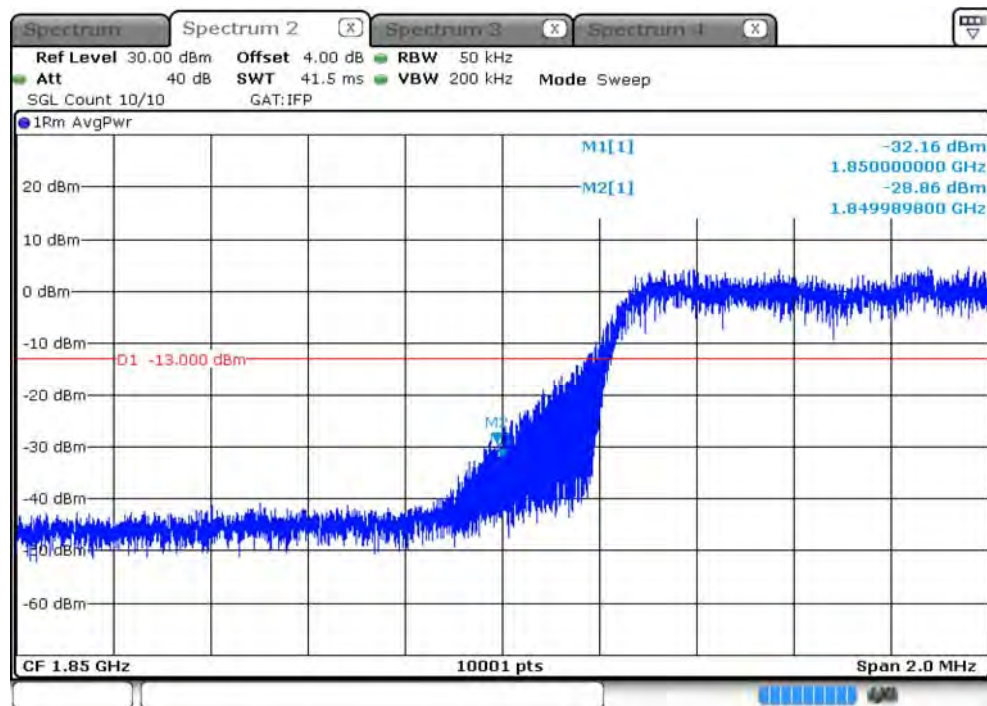
Date: 1.SEP.2020 14:25:12

## LTE\_B25\_CH26065\_5M\_QPSK\_1RB0



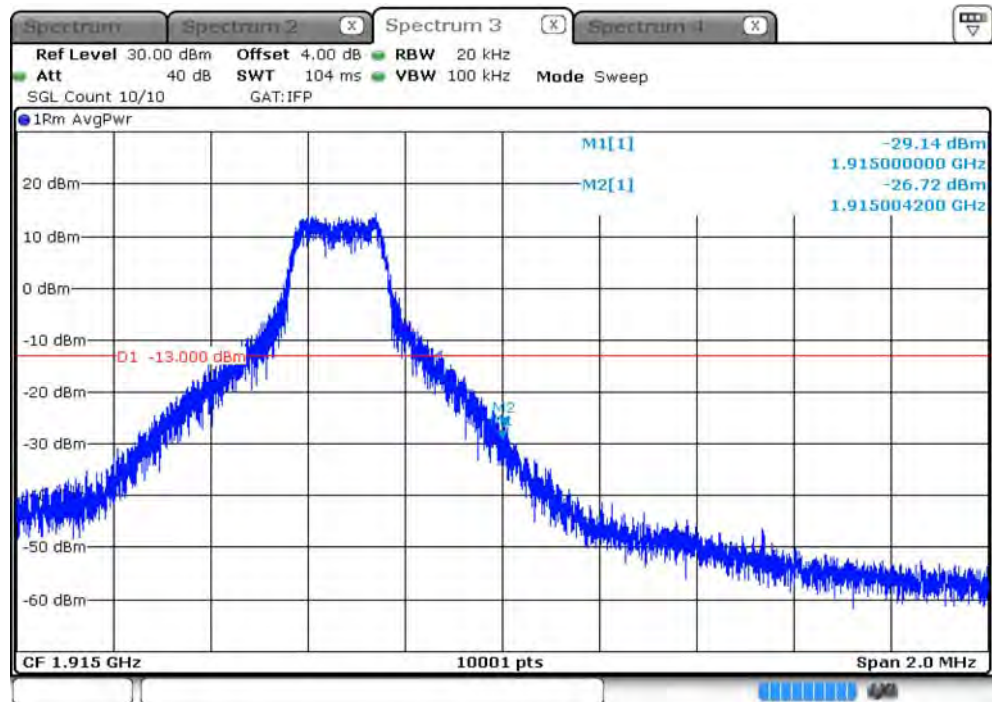
Date: 1.SEP.2020 14:47:28

## LTE\_B25\_CH26065\_5M\_QPSK\_25RB0



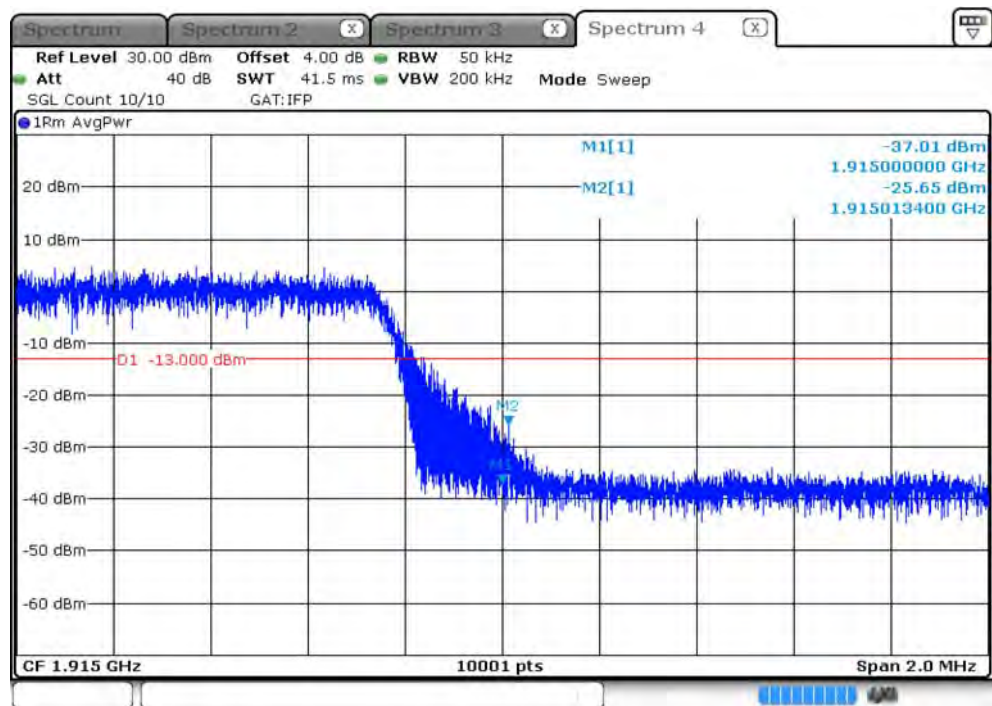
Date: 1.SEP.2020 14:46:26

## LTE\_B25\_CH26665\_5M\_QPSK\_1RB24



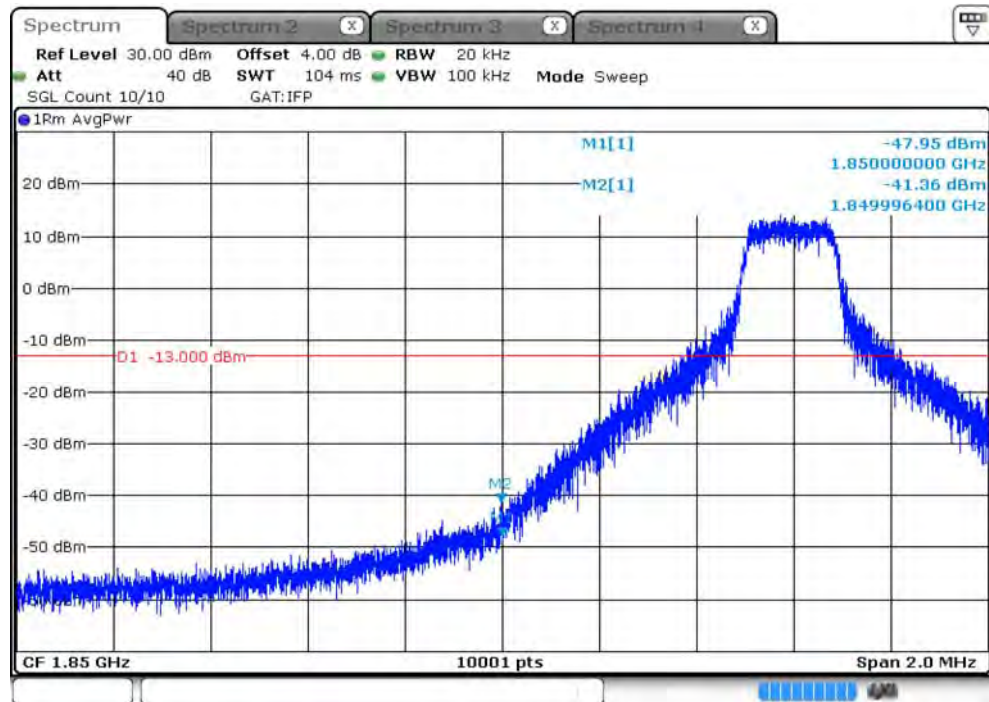
Date: 1.SEP.2020 14:27:57

## LTE\_B25\_CH26665\_5M\_QPSK\_25RB0



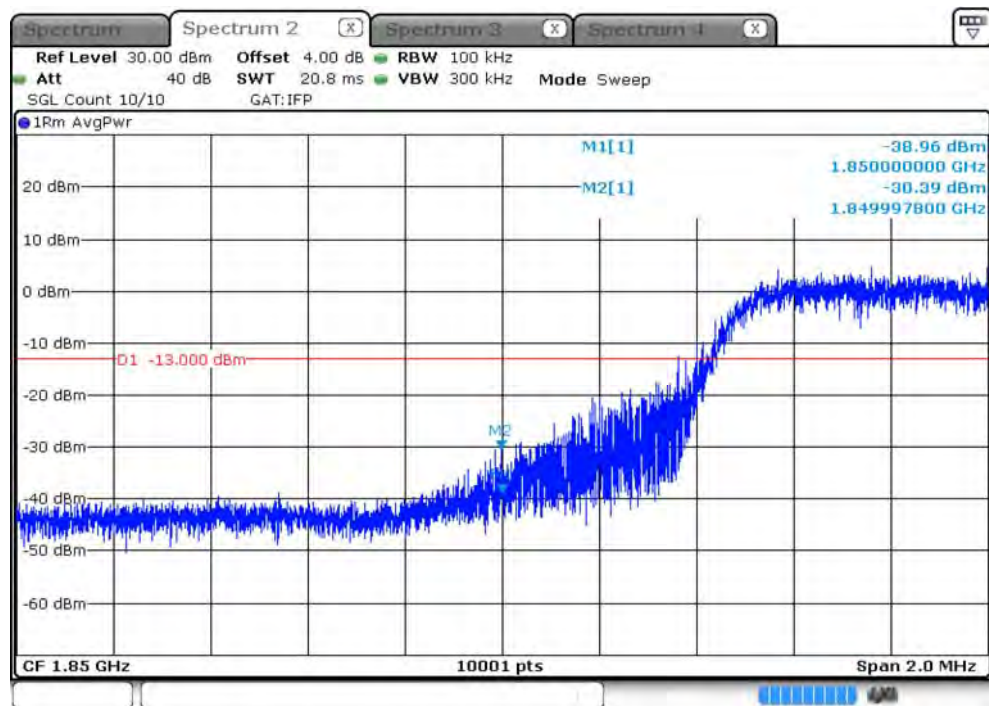
Date: 1.SEP.2020 14:37:19

## LTE\_B25\_CH26090\_10M\_QPSK\_1RB0



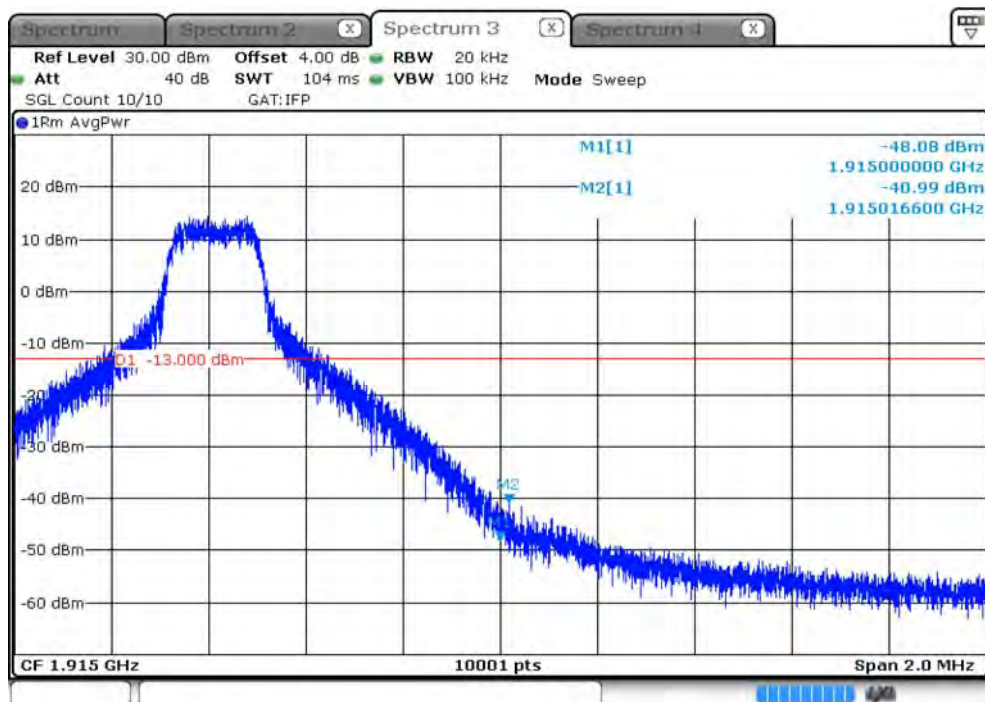
Date: 1.SEP.2020 14:54:18

## LTE\_B25\_CH26090\_10M\_QPSK\_50RB0



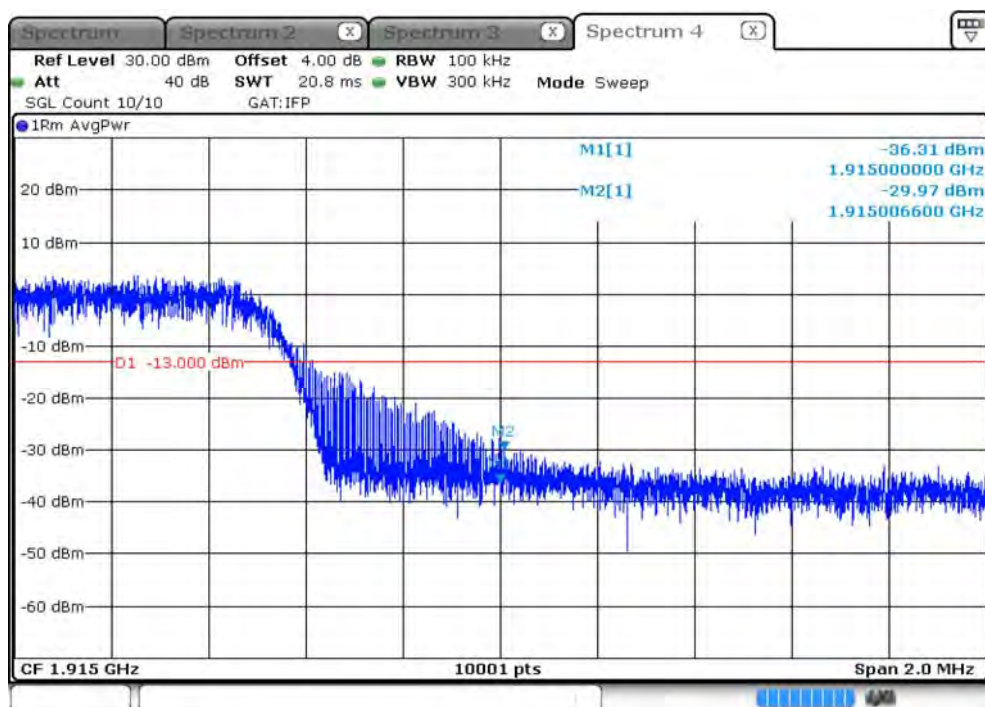
Date: 1.SEP.2020 14:56:15

## LTE\_B25\_CH26640\_10M\_QPSK\_1RB49



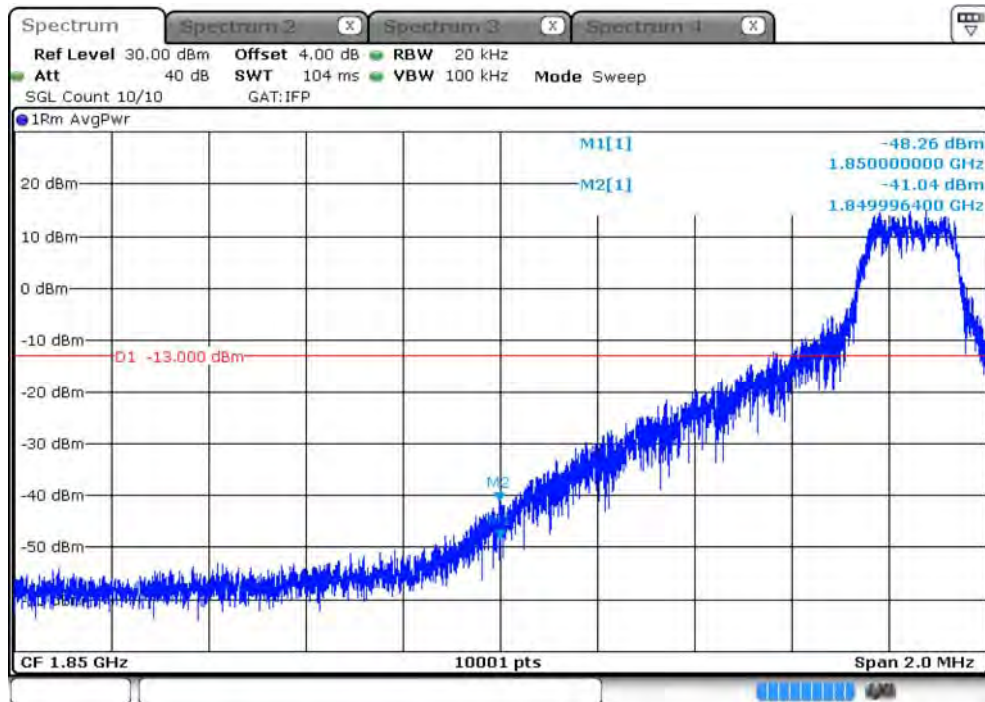
Date: 1.SEP.2020 15:00:43

## LTE\_B25\_CH26640\_10M\_QPSK\_50RB0



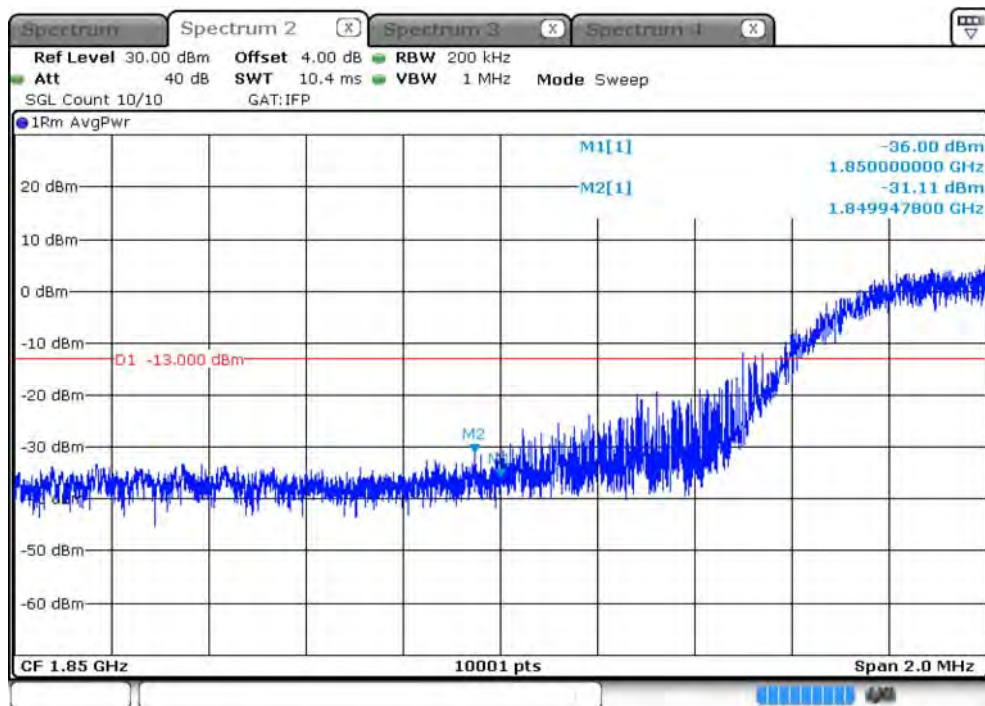
Date: 1.SEP.2020 14:58:29

## LTE\_B25\_CH26115\_15M\_QPSK\_1RB0



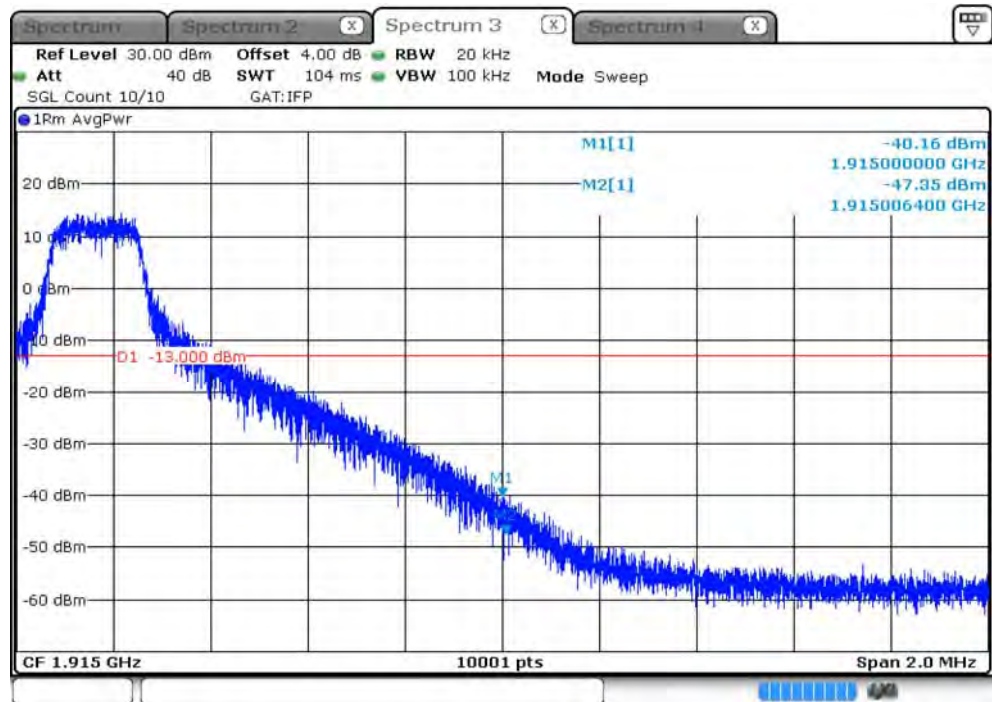
Date: 1.SEP.2020 15:04:54

## LTE\_B25\_CH26115\_15M\_QPSK\_75RB0



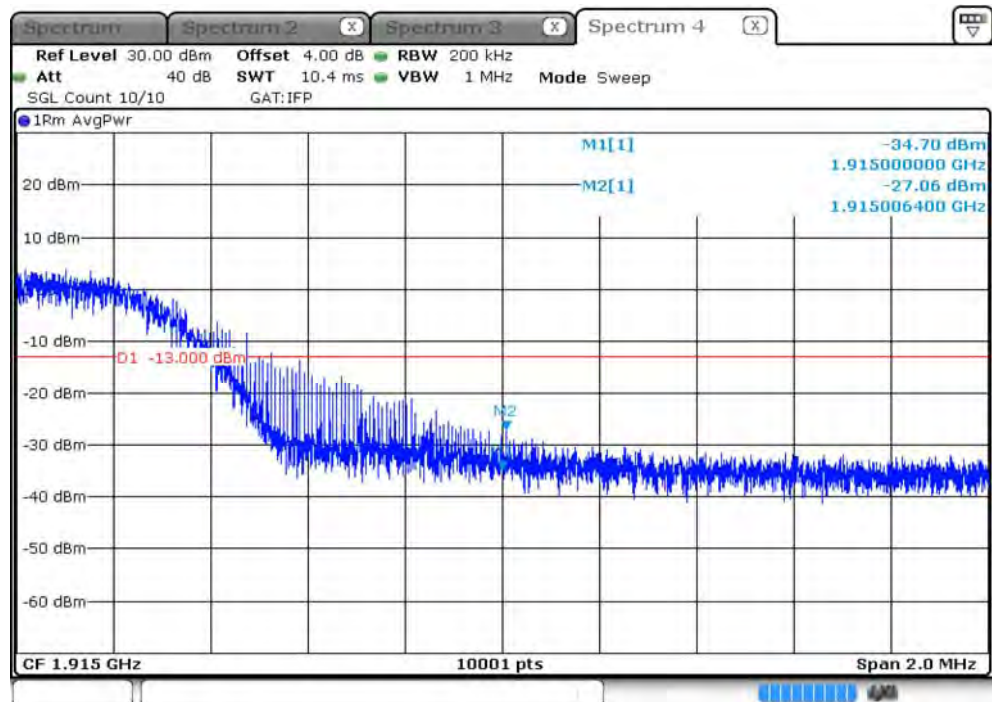
Date: 1.SEP.2020 15:07:10

## LTE\_B25\_CH26615\_15M\_QPSK\_1RB74



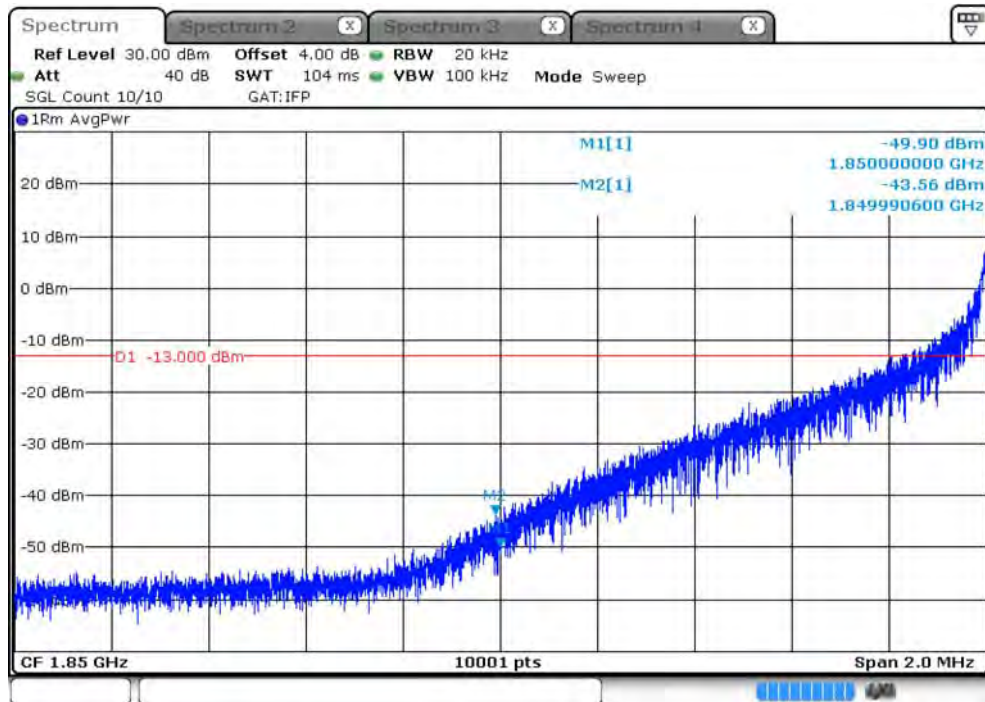
Date: 1.SEP.2020 15:09:49

## LTE\_B25\_CH26615\_15M\_QPSK\_75RB0



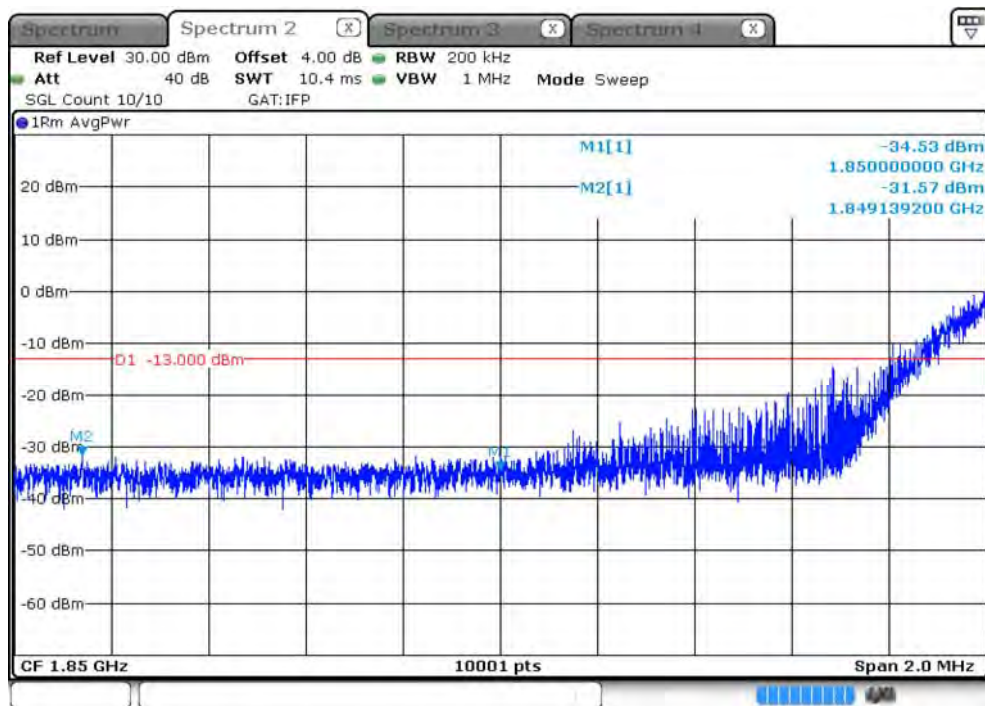
Date: 1.SEP.2020 15:08:03

## LTE\_B25\_CH26140\_20M\_QPSK\_1RB0



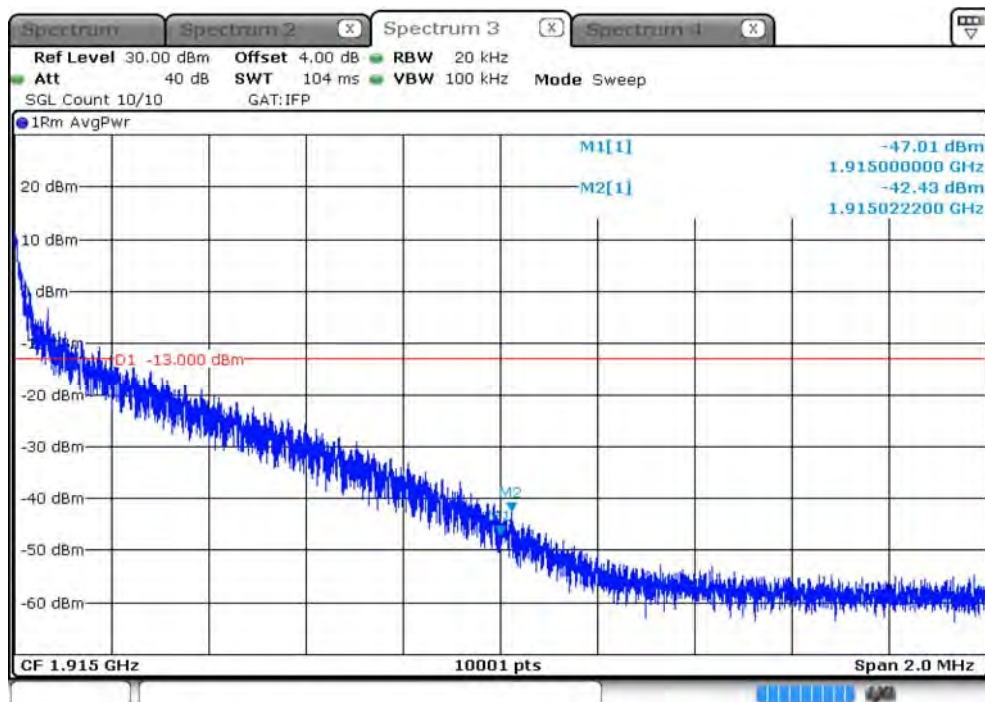
Date: 1.SEP.2020 15:16:04

## LTE\_B25\_CH26140\_20M\_QPSK\_100RB0



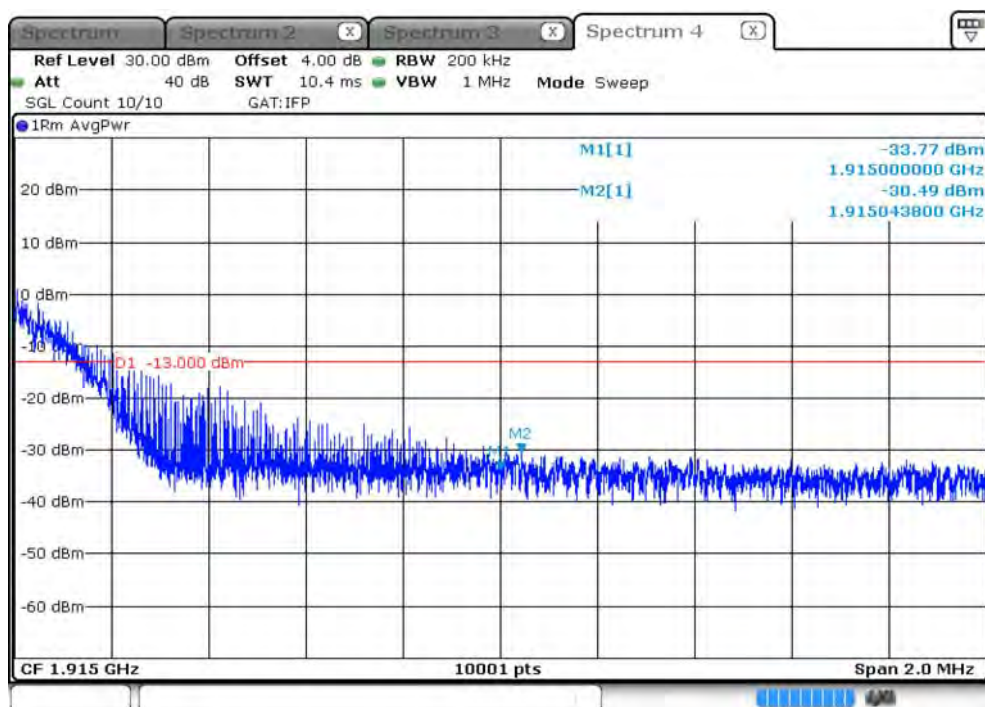
Date: 1.SEP.2020 15:39:58

## LTE\_B25\_CH26590\_20M\_QPSK\_1RB99



Date: 1 SEP. 2020 15:46:50

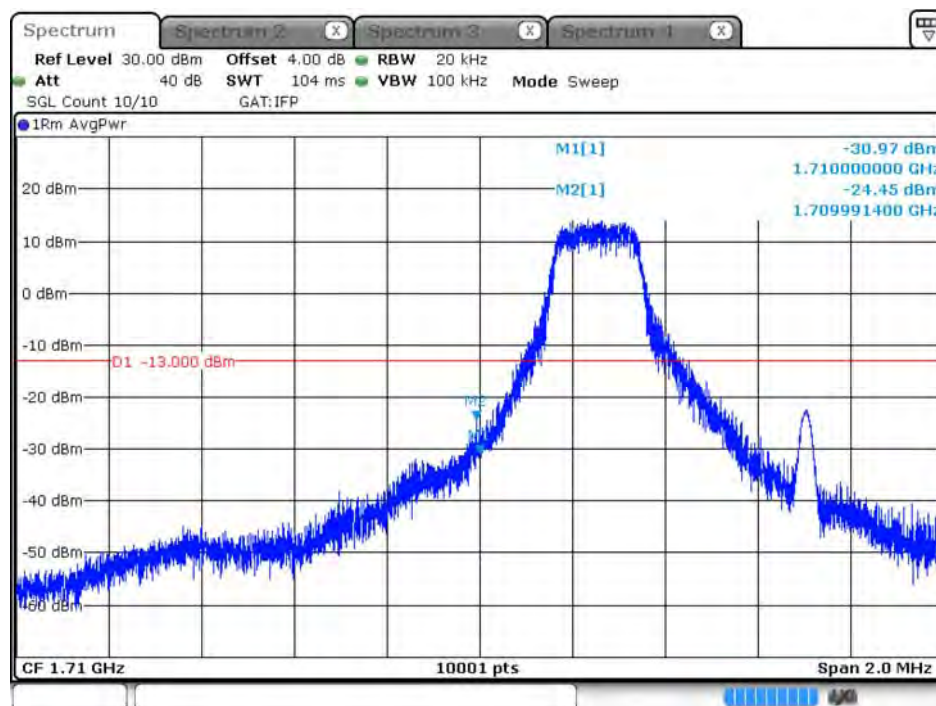
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Date: 1 SEP. 2020 15:44:40

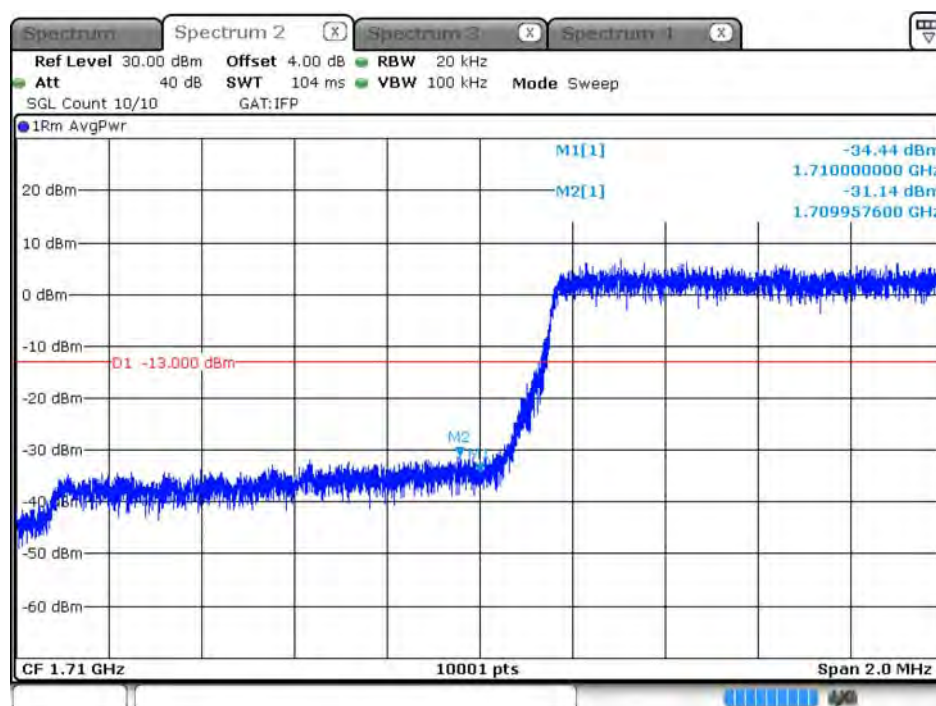
|                 |                                        |                |        |
|-----------------|----------------------------------------|----------------|--------|
| Product         | Module                                 |                |        |
| Test Item       | Spurious Emission at Antenna Terminals |                |        |
| Test Mode       | Mode 2: LTE Band 4/66                  |                |        |
| Date of Test    | 2020/09/01                             | Test Site      | SR12-H |
| Temperature(°C) | 23                                     | Humidity (%RH) | 64     |

LTE\_B66\_CH131979\_1.4M\_QPSK\_1RB0



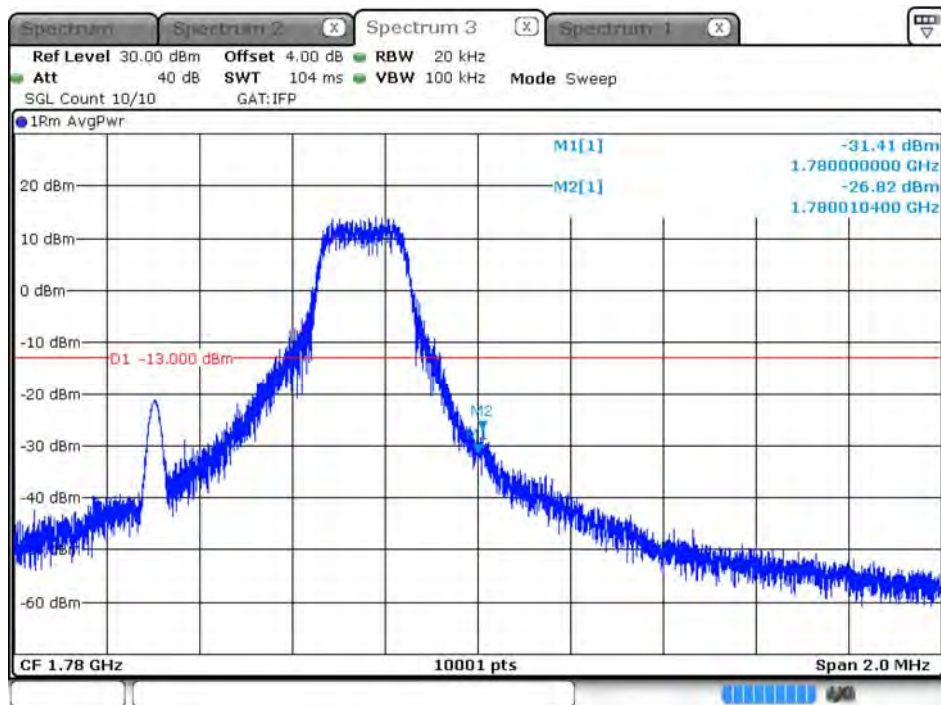
Date: 1.SEP.2020 16:45:46

LTE\_B66\_CH131979\_1.4M\_QPSK\_6RB0



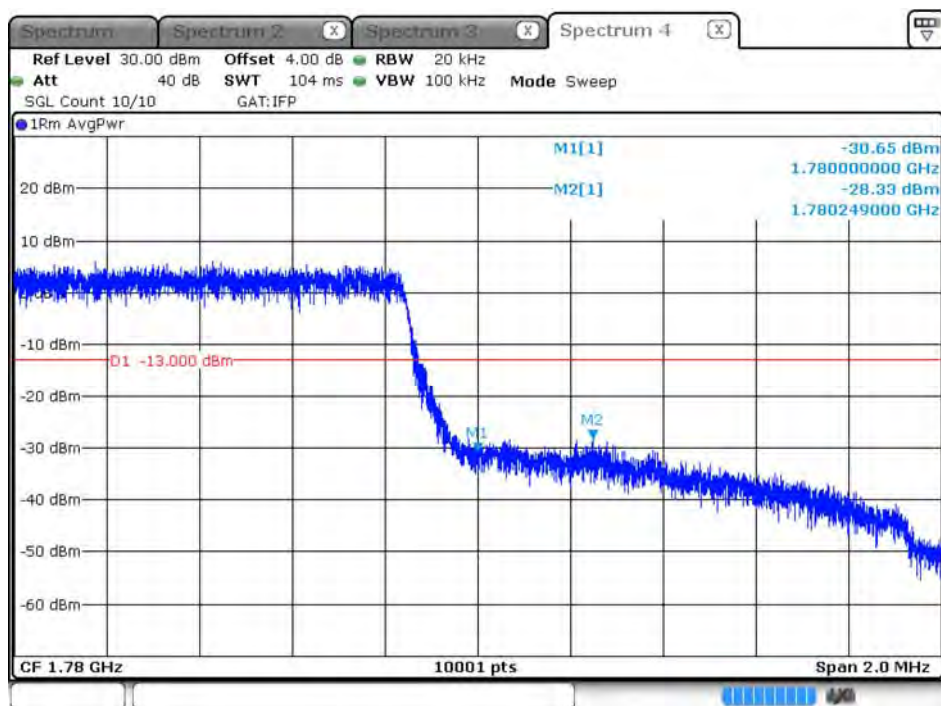
Date: 1.SEP.2020 16:47:35

## LTE\_B66\_CH132665\_1.4M\_QPSK\_1RB5



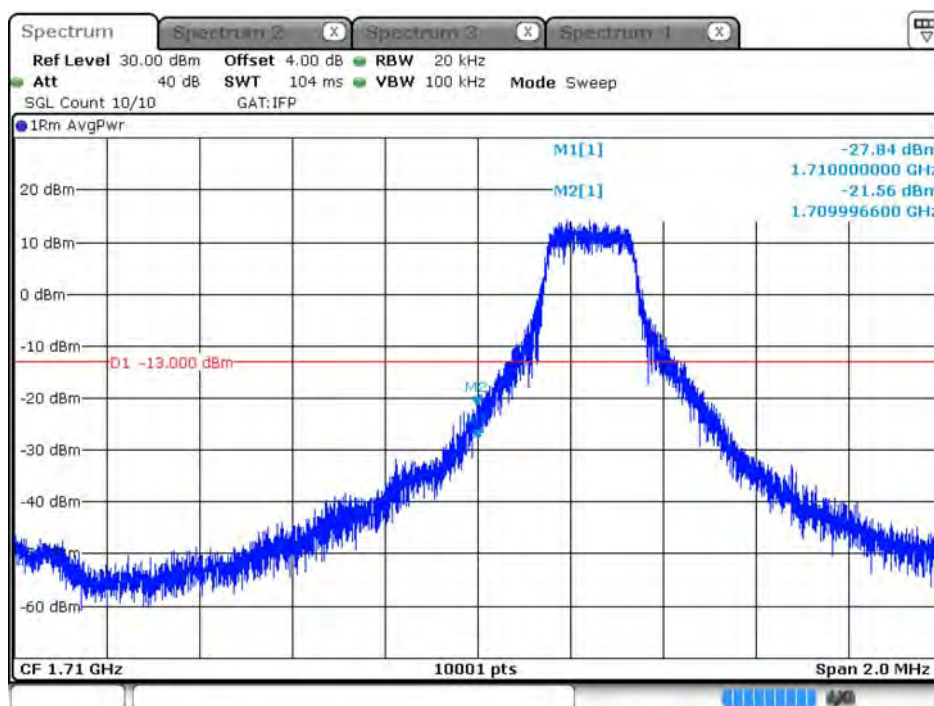
Date: 1.SEP.2020 16:50:32

## LTE\_B66\_CH132665\_1.4M\_QPSK\_6RB0



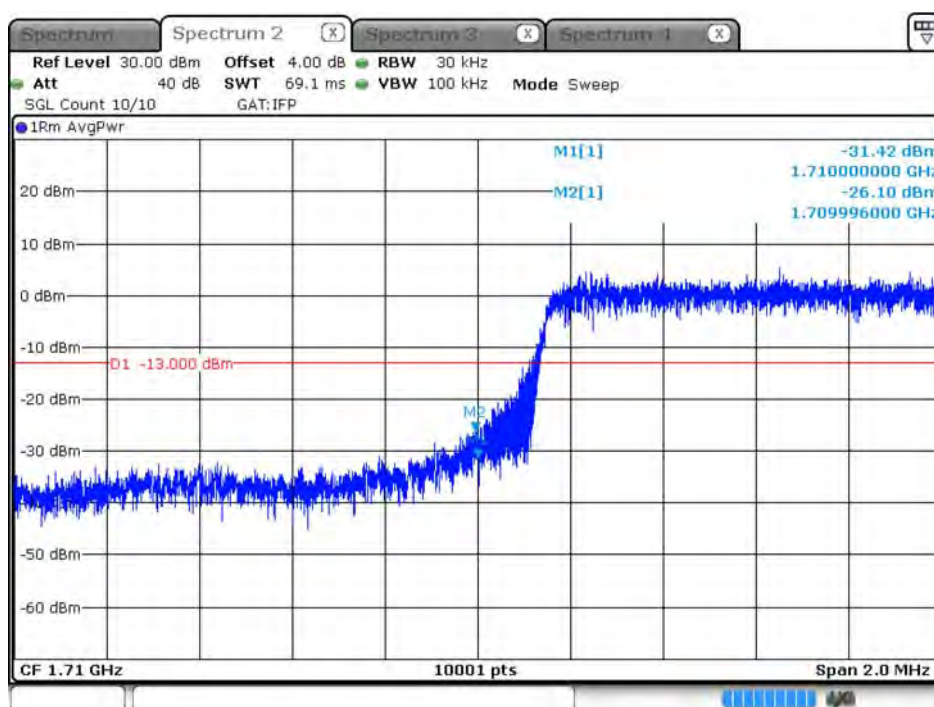
Date: 1.SEP.2020 16:48:57

## LTE\_B66\_CH131987\_3M\_QPSK\_1RB0



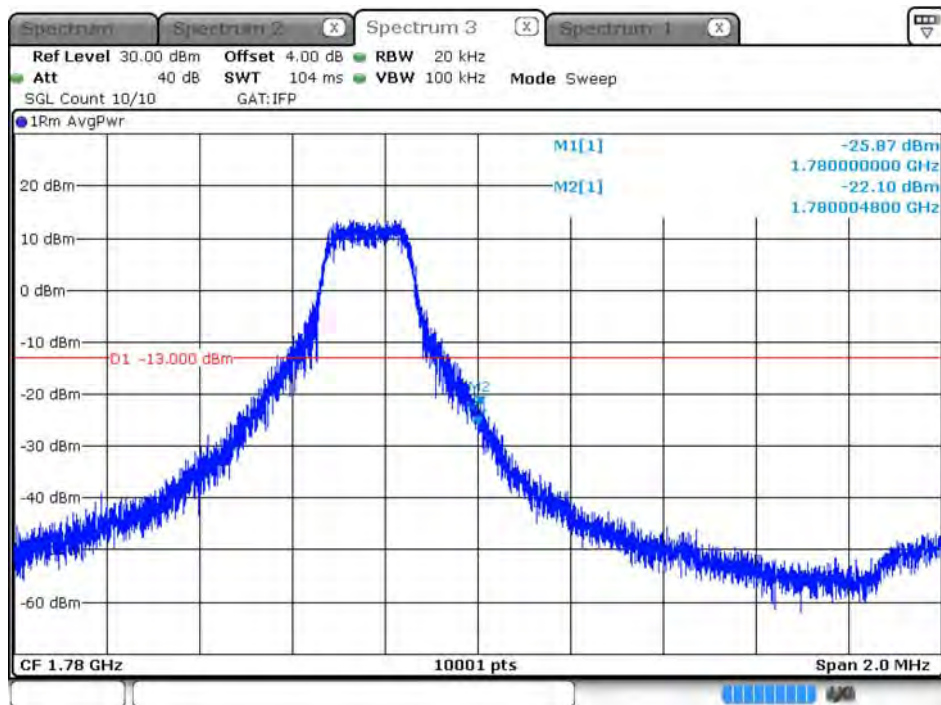
Date: 1.SEP.2020 16:55:05

## LTE\_B66\_CH131987\_3M\_QPSK\_15RB0



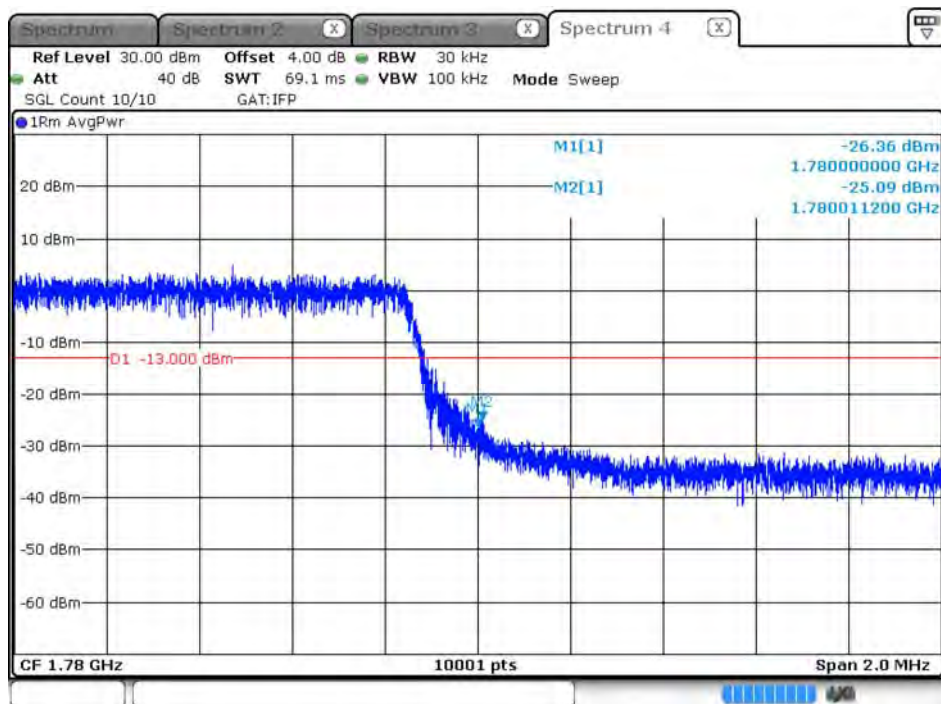
Date: 1.SEP.2020 16:56:53

## LTE\_B66\_CH132657\_3M\_QPSK\_1RB14



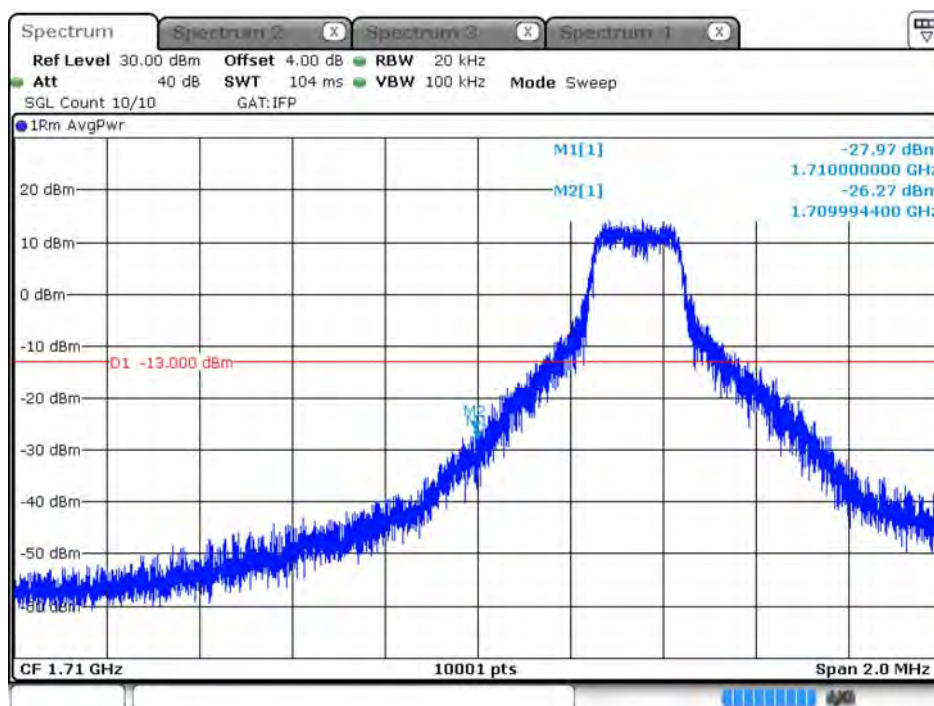
Date: 1.SEP.2020 17:02:03

## LTE\_B66\_CH132657\_3M\_QPSK\_15RB0



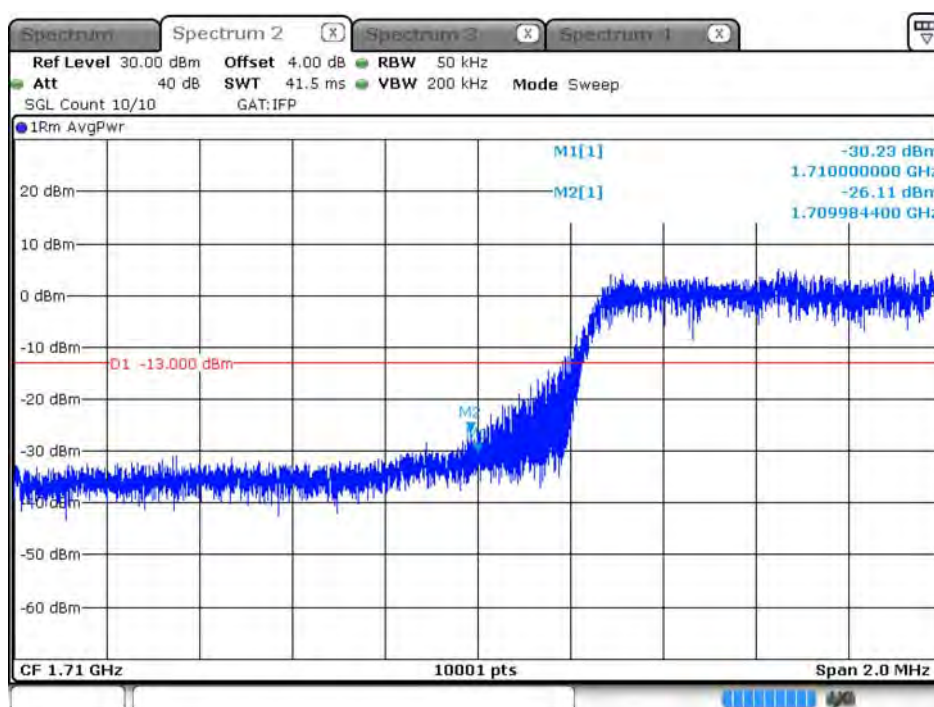
Date: 1.SEP.2020 16:59:06

## LTE\_B66\_CH131997\_5M\_\_QPSK\_1RB0



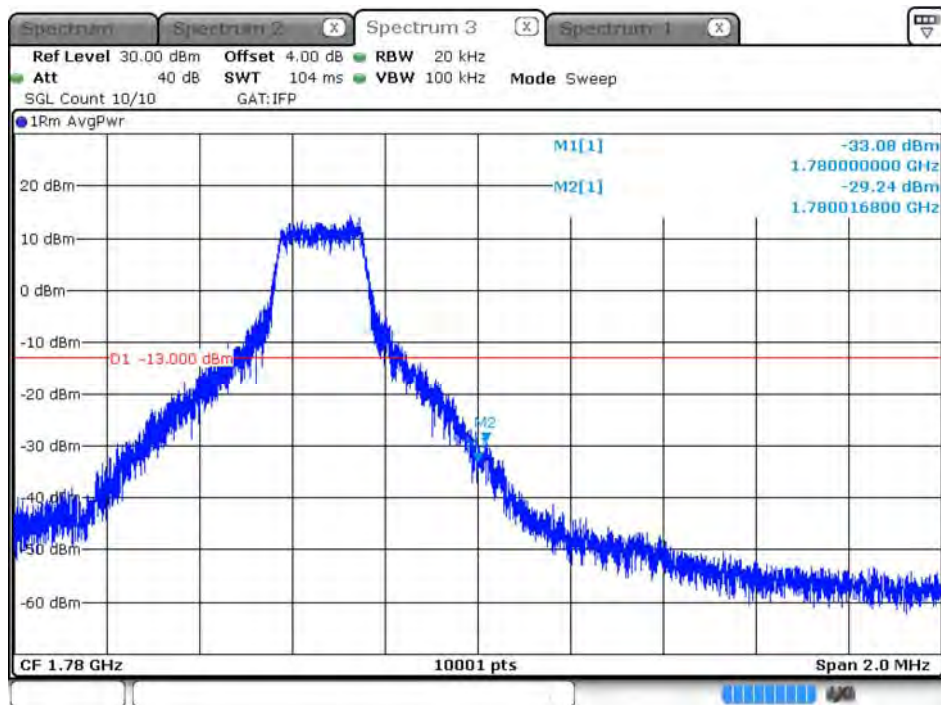
Date: 1.SEP.2020 17:04:39

## LTE\_B66\_CH131997\_5M\_\_QPSK\_25RB0



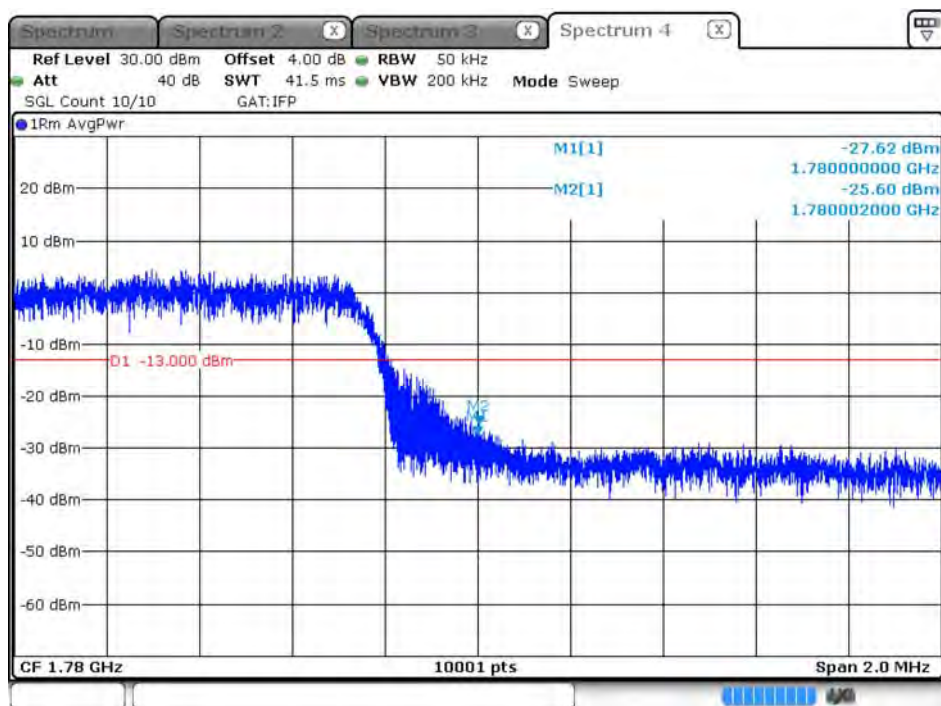
Date: 1.SEP.2020 17:06:12

## LTE\_B66\_CH132647\_5M\_QPSK\_1RB24



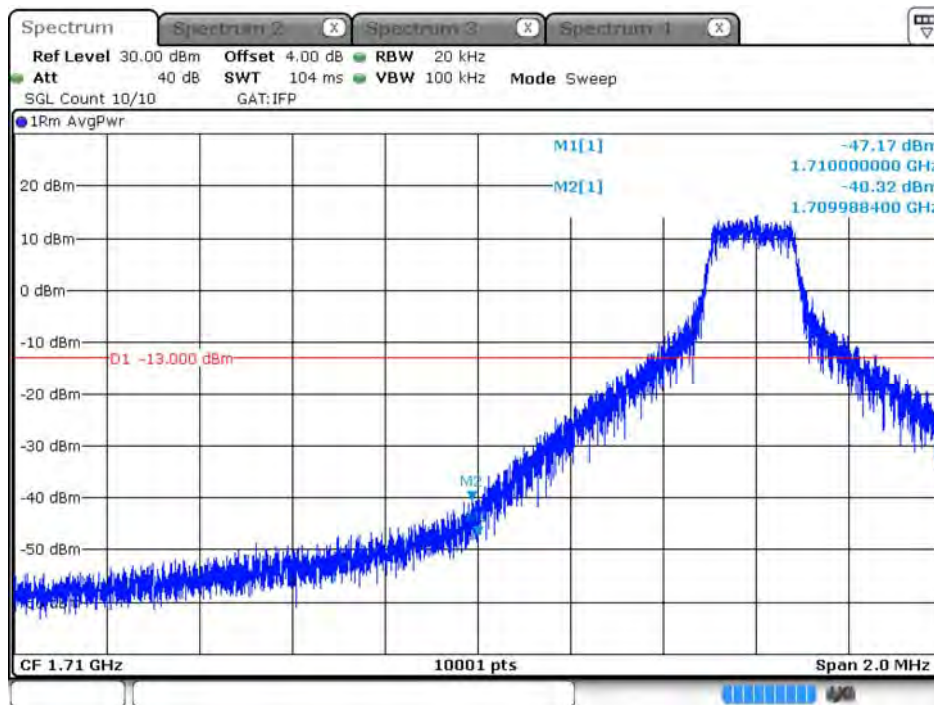
Date: 1.SEP.2020 17:09:48

## LTE\_B66\_CH132647\_5M\_QPSK\_25RB0



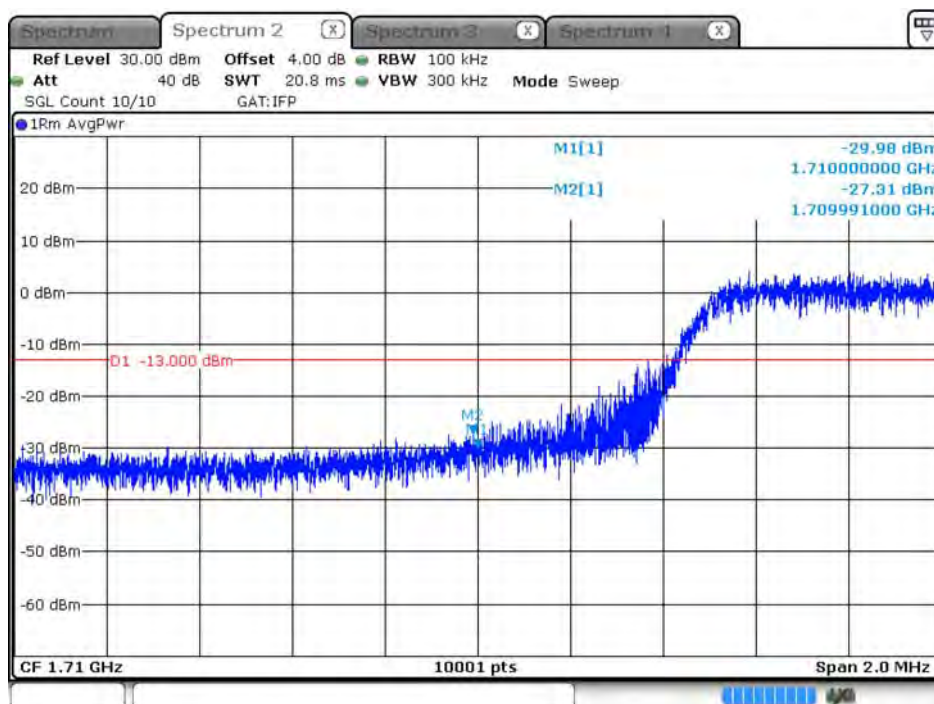
Date: 1.SEP.2020 17:08:00

## LTE\_B66\_CH132022\_10M\_QPSK\_1RB0



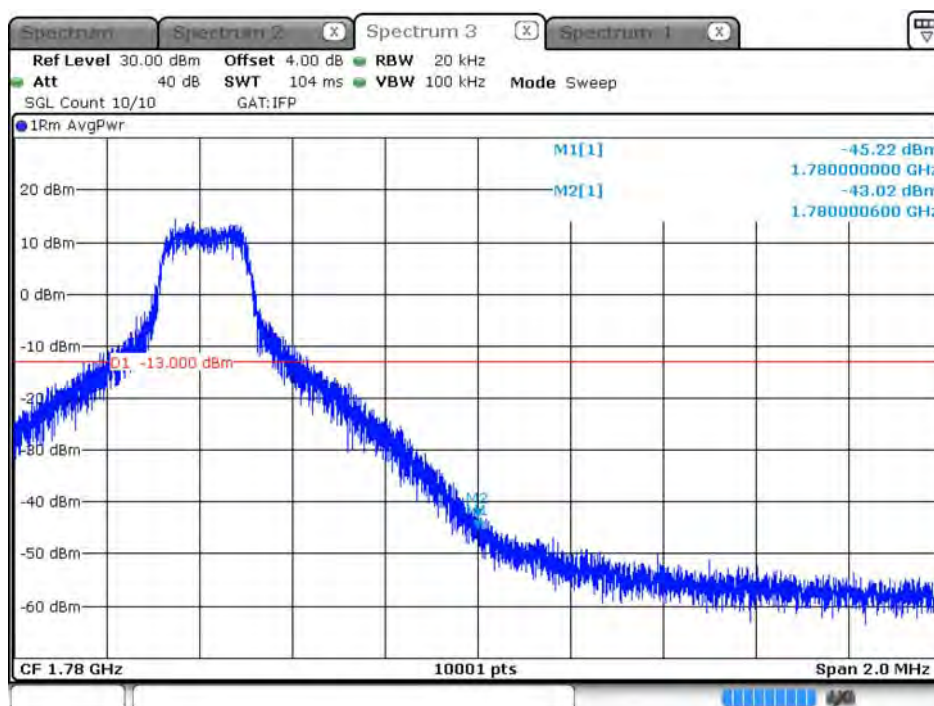
Date: 1.SEP.2020 17:11:26

## LTE\_B66\_CH132022\_10M\_QPSK\_50RB0



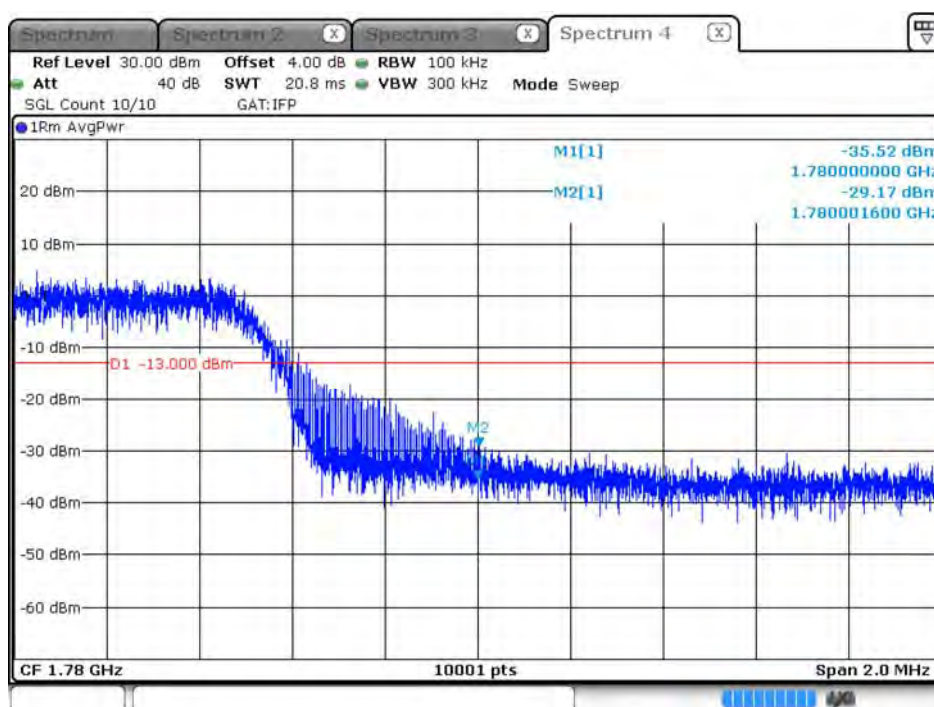
Date: 1.SEP.2020 17:12:10

## LTE\_B66\_CH132622\_10M\_QPSK\_1RB49



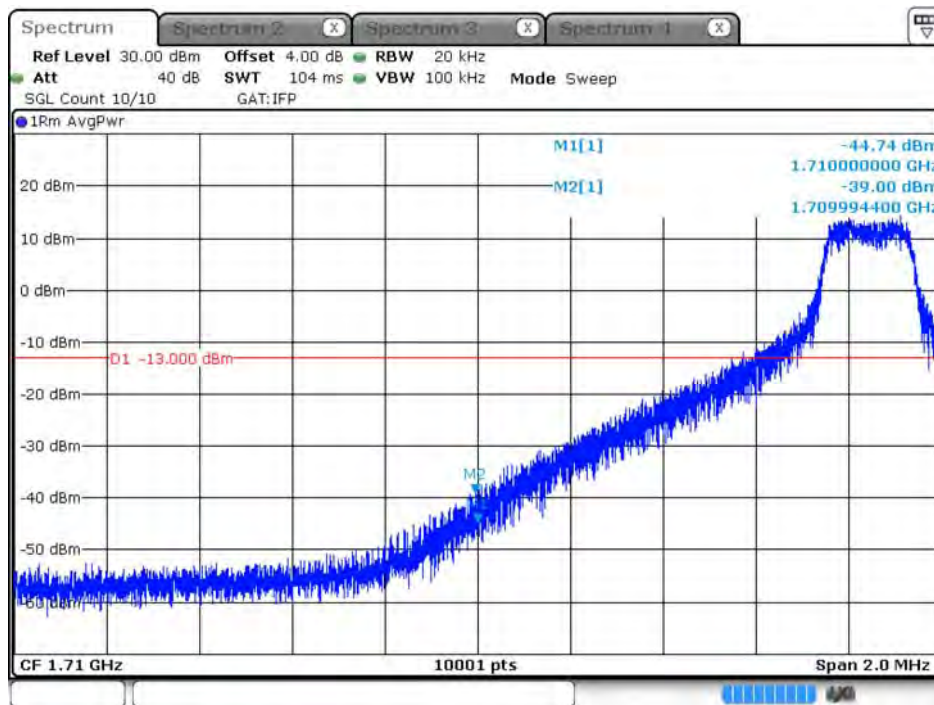
Date: 1.SEP.2020 17:14:46

## LTE\_B66\_CH132622\_10M\_QPSK\_50RB0



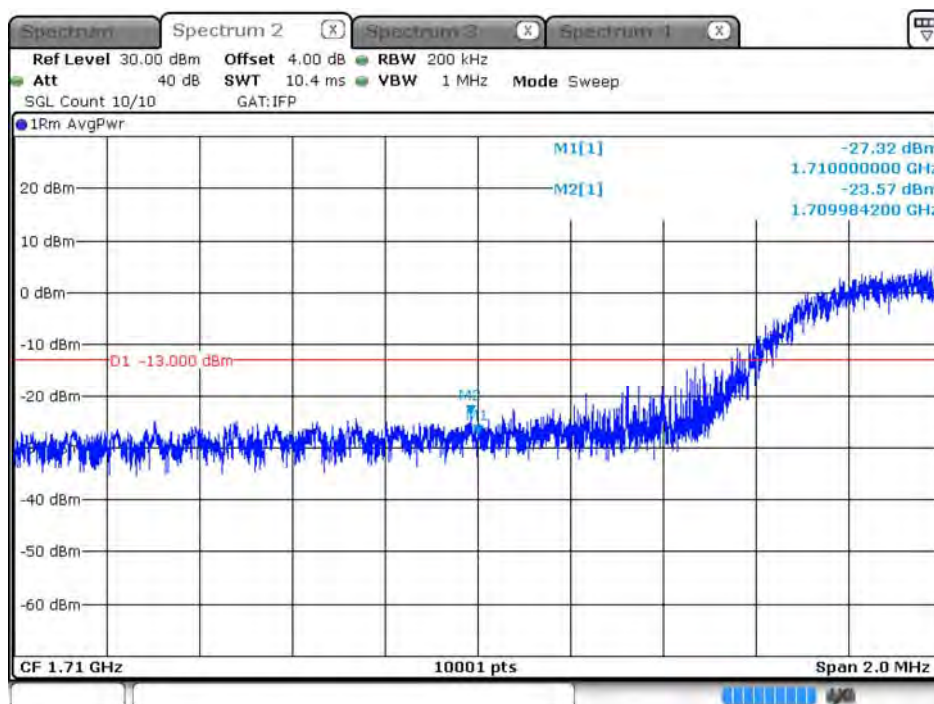
Date: 1.SEP.2020 17:13:54

## LTE\_B66\_CH132047\_15M\_QPSK\_1RB0



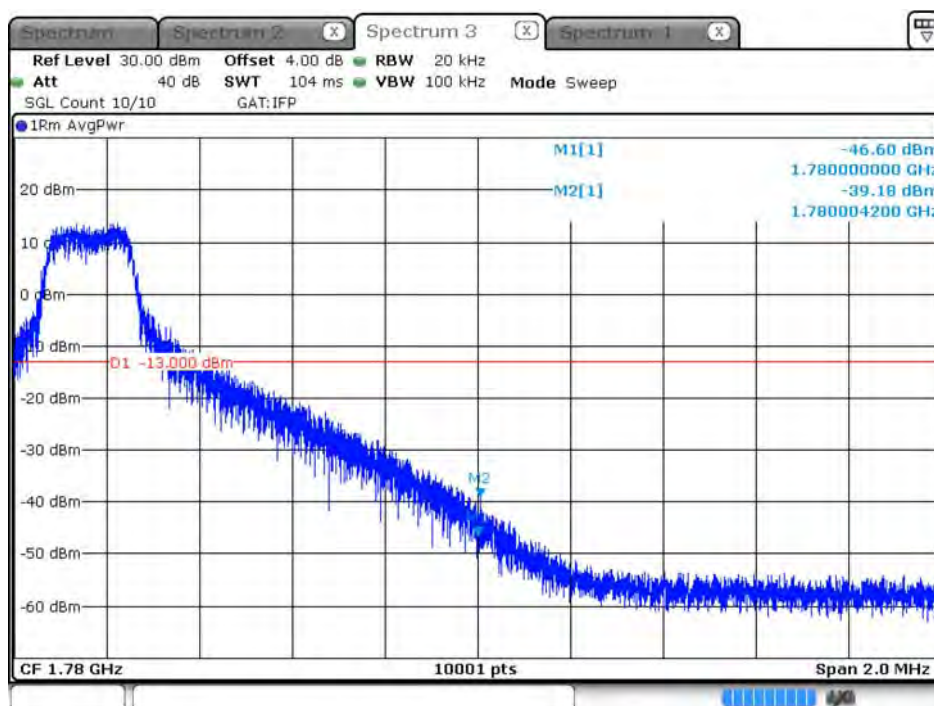
Date: 1.SEP.2020 17:17:01

## LTE\_B66\_CH132047\_15M\_QPSK\_75RB0



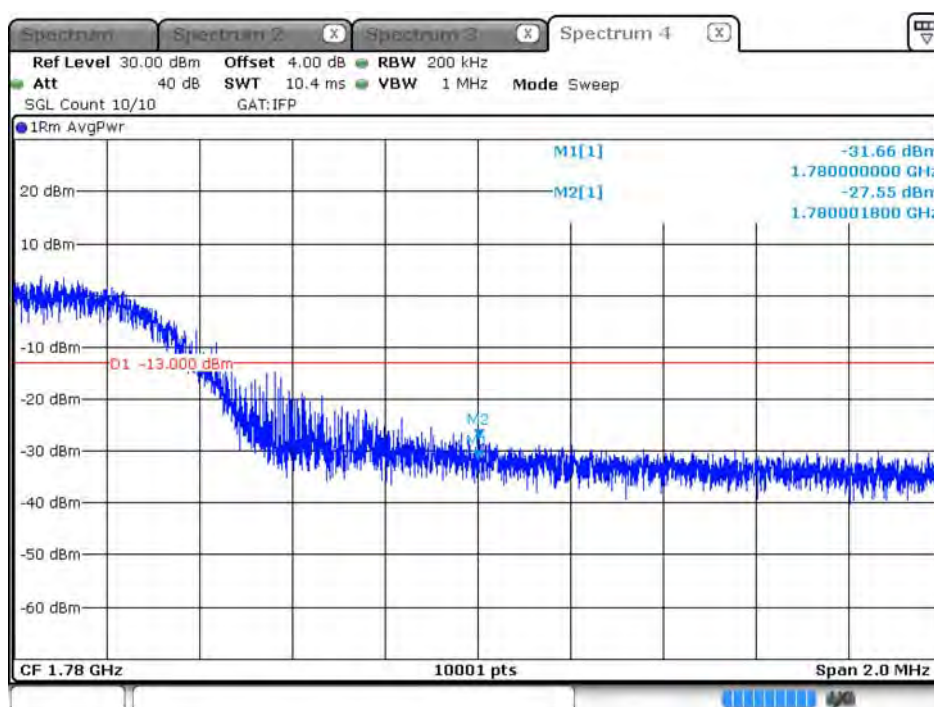
Date: 1.SEP.2020 17:18:18

## LTE\_B66\_CH132597\_15M\_QPSK\_1RB74



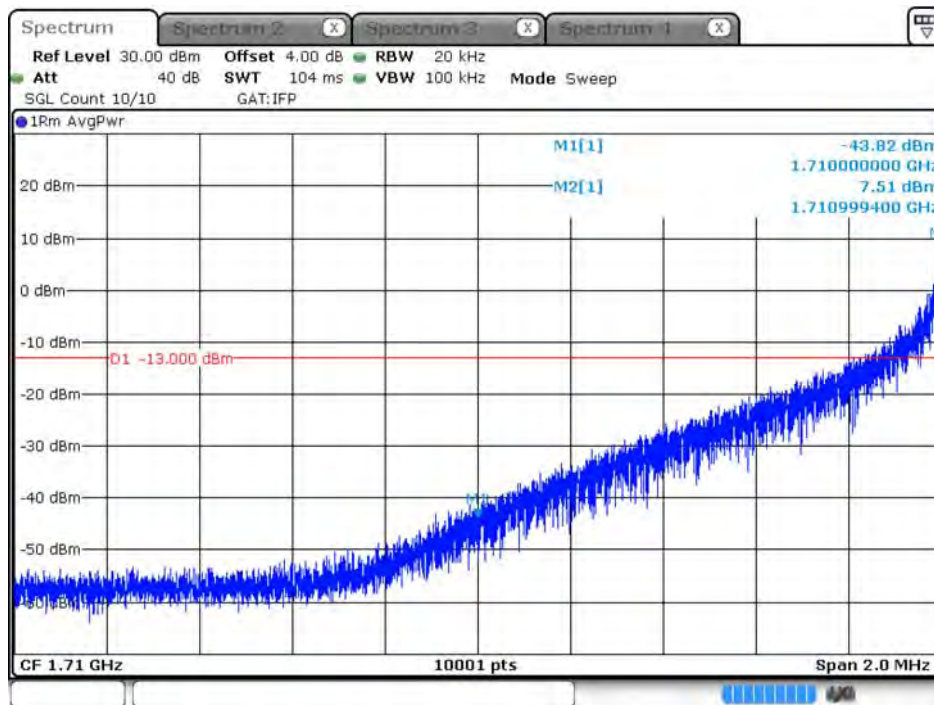
Date: 1.SEP.2020 17:24:50

## LTE\_B66\_CH132597\_15M\_QPSK\_75RB0



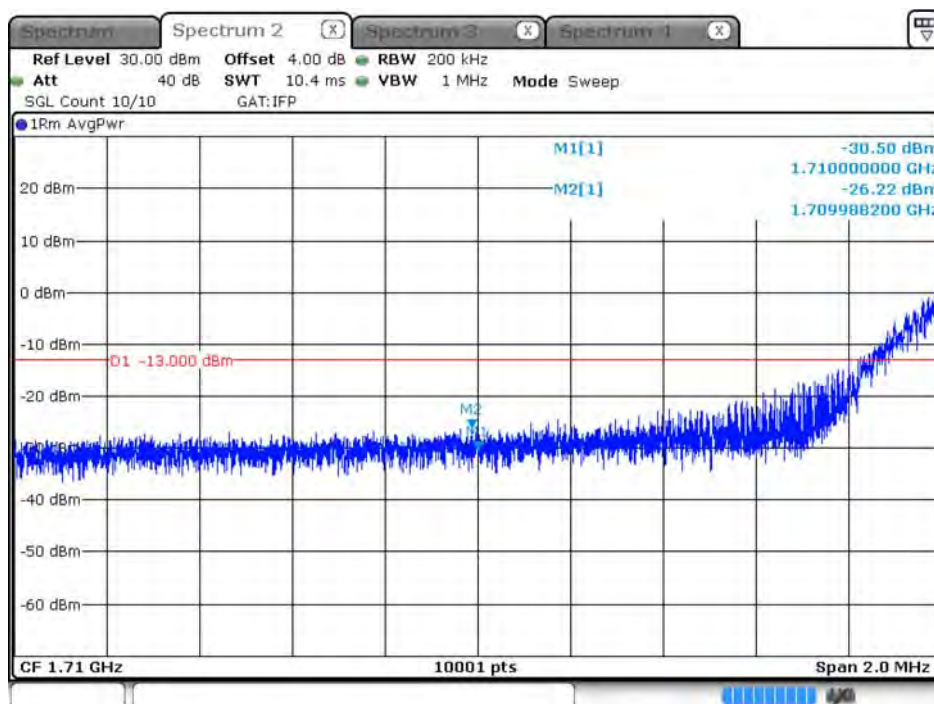
Date: 1.SEP.2020 17:21:33

## LTE\_B66\_CH132072\_20M\_\_QPSK\_1RB0



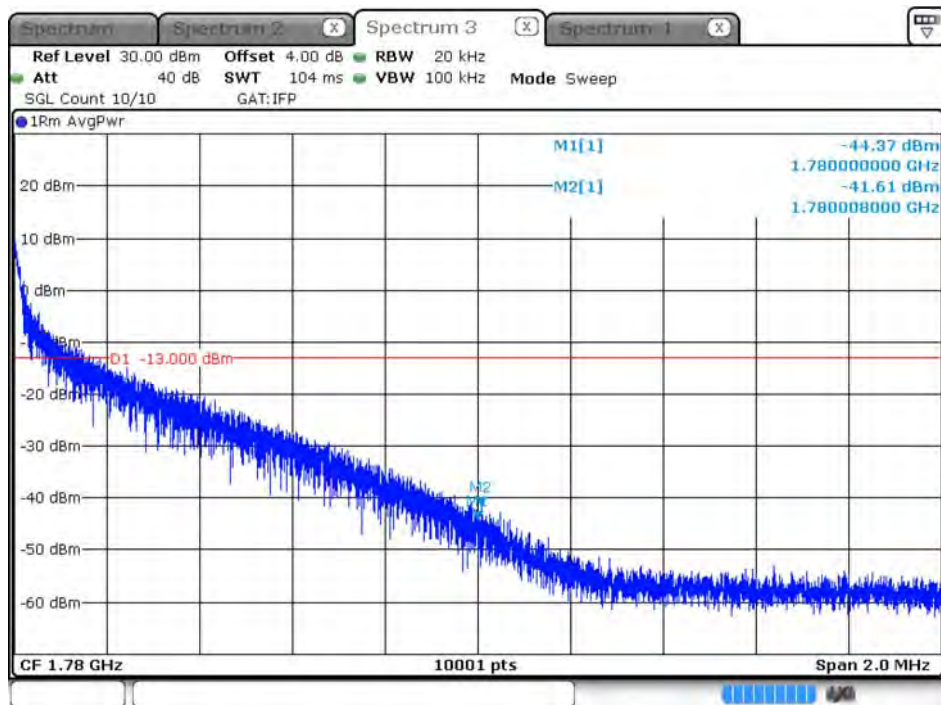
Date: 1.SEP.2020 17:26:34

## LTE\_B66\_CH132072\_20M\_\_QPSK\_100RB0



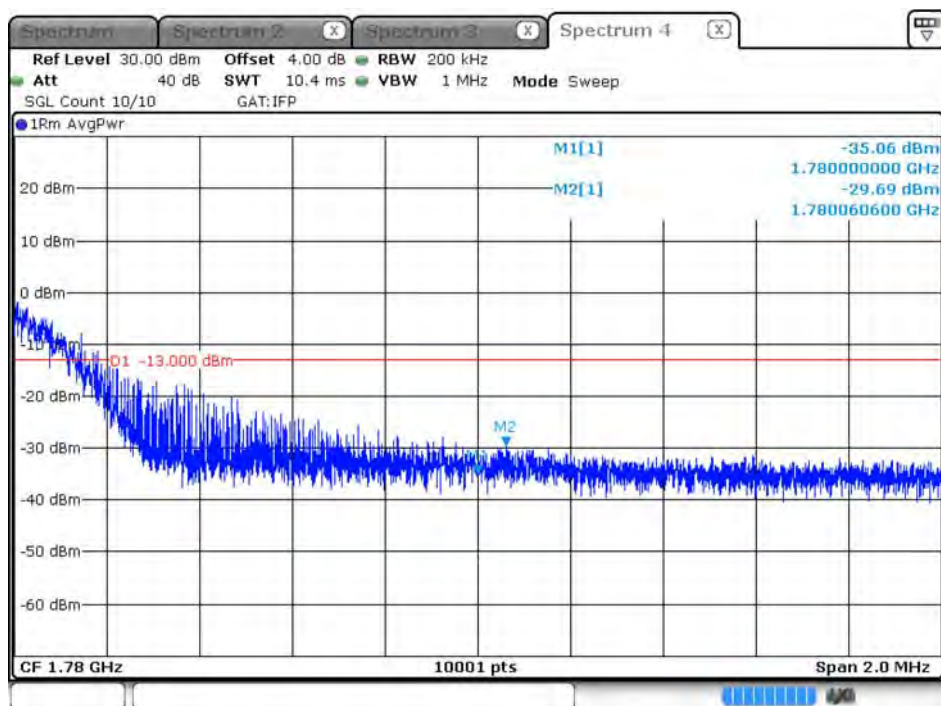
Date: 1.SEP.2020 17:27:52

## LTE\_B66\_CH132572\_20M\_QPSK\_1RB99



Date: 1.SEP.2020 17:28:45

## LTE\_B66\_CH132572\_20M\_QPSK\_100RB0



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