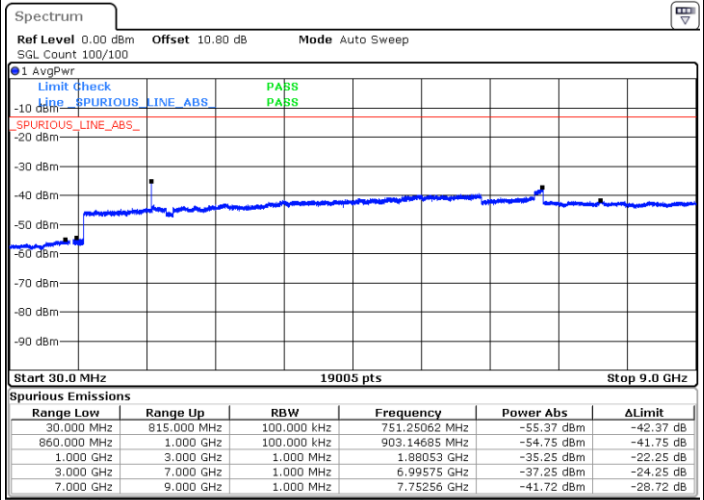
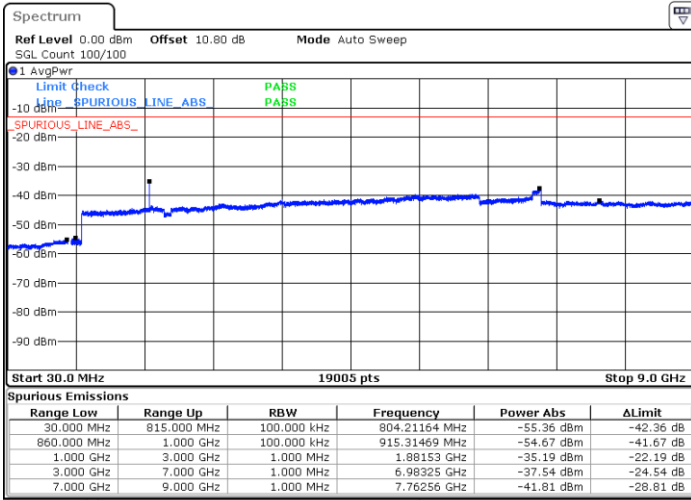




FR1 n5 / 20MHz / QPSK / DFT-S OFDM

Lowest Channel / 1RB1

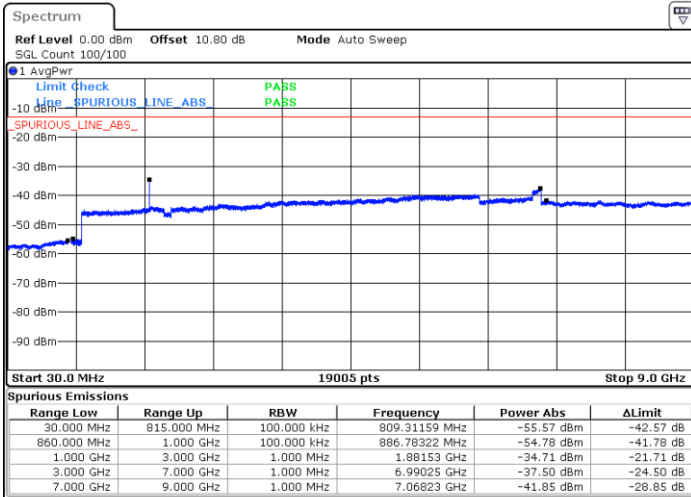
Middle Channel / 1RB1



Date: 10.MAR.2020 22:27:45

Date: 10.MAR.2020 22:29:55

Highest Channel / 1RB1



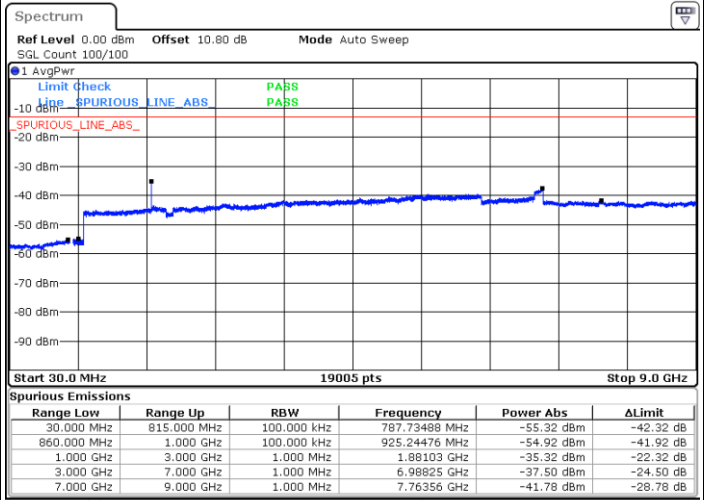
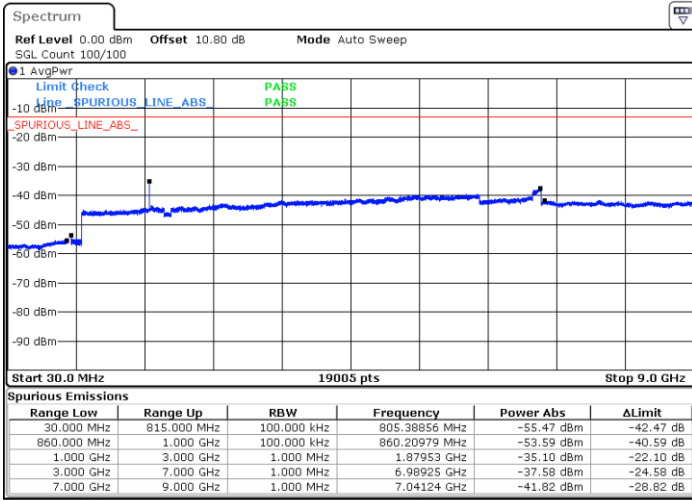
Date: 10.MAR.2020 22:34:56



FR1 n5 / 20MHz / 16QAM / DFT-S OFDM

Lowest Channel / 1RB1

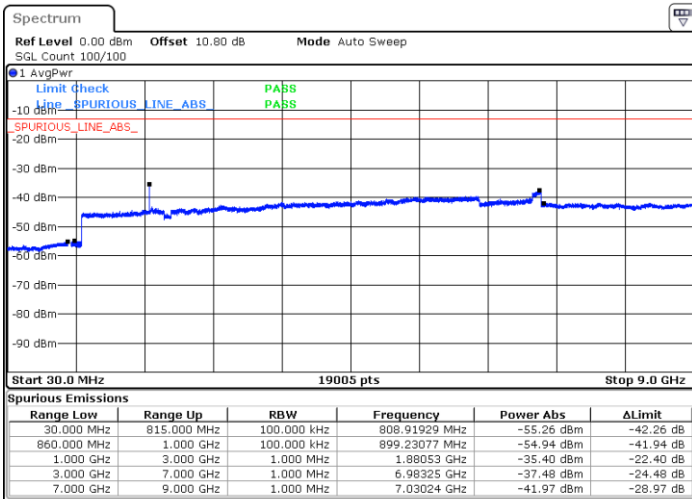
Middle Channel / 1RB1



Date: 10.MAR.2020 22:26:44

Date: 10.MAR.2020 22:30:38

Highest Channel / 1RB1



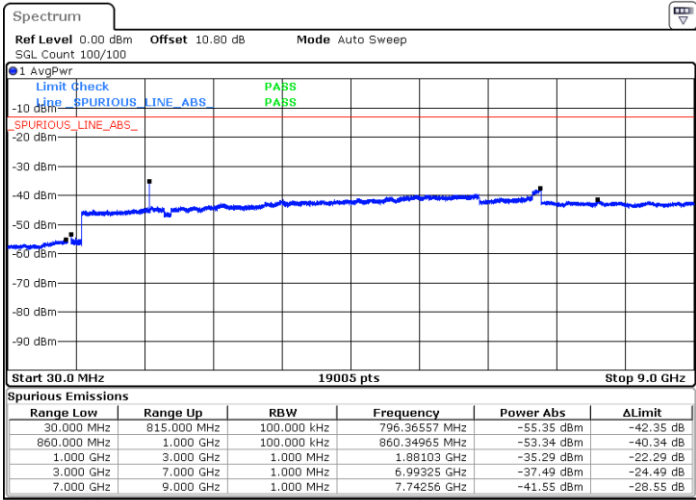
Date: 10.MAR.2020 22:34:13



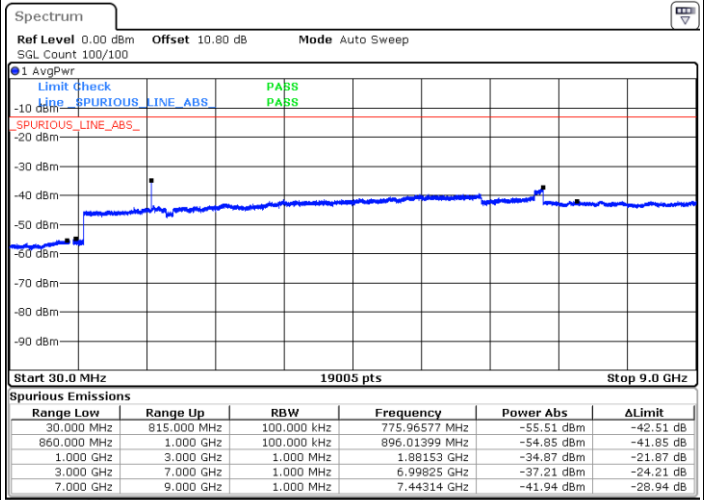
FR1 n5 / 20MHz / 64QAM / DFT-S OFDM

Lowest Channel / 1RB1

Middle Channel / 1RB1

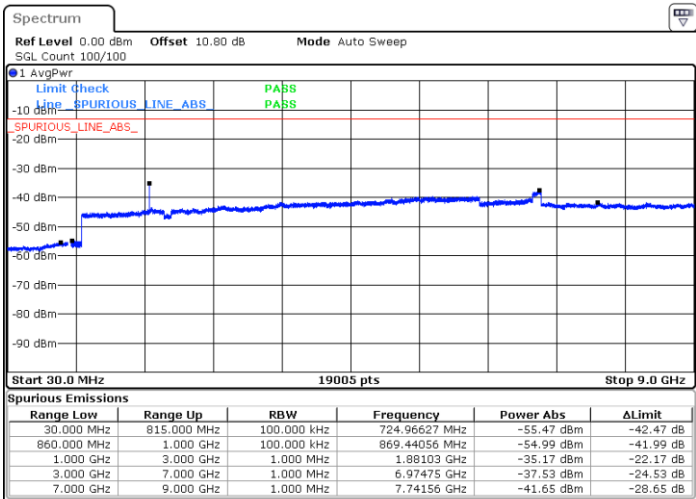


Date: 10.MAR.2020 22:26:03



Date: 10.MAR.2020 22:31:21

Highest Channel / 1RB1



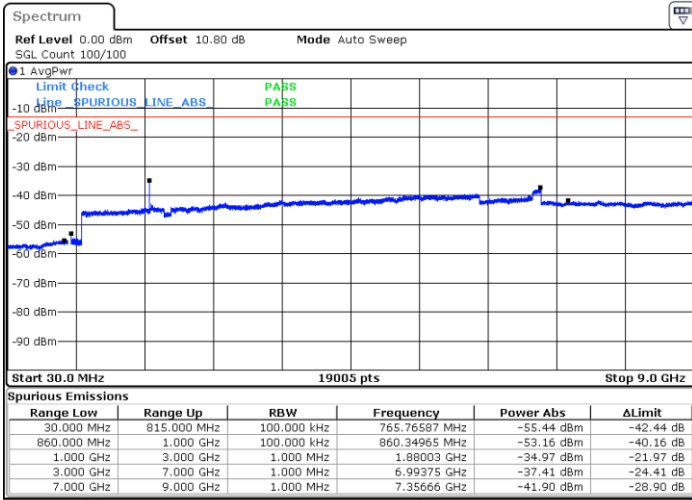
Date: 10.MAR.2020 22:33:31



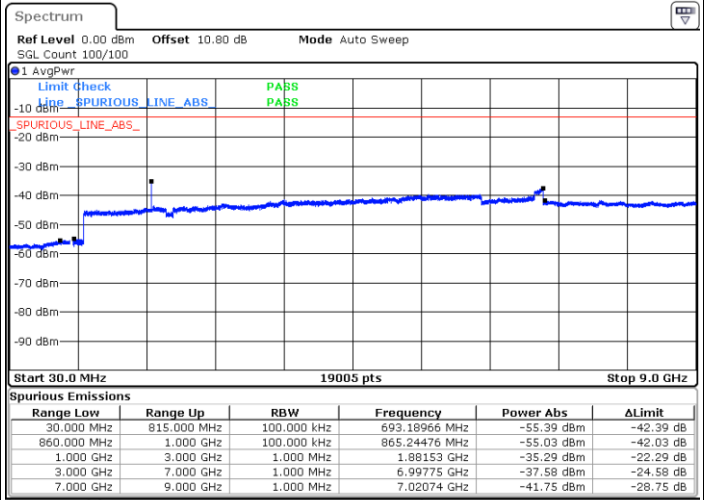
FR1 n5 / 20MHz / 256QAM / DFT-S OFDM

Lowest Channel / 1RB1

Middle Channel / 1RB1

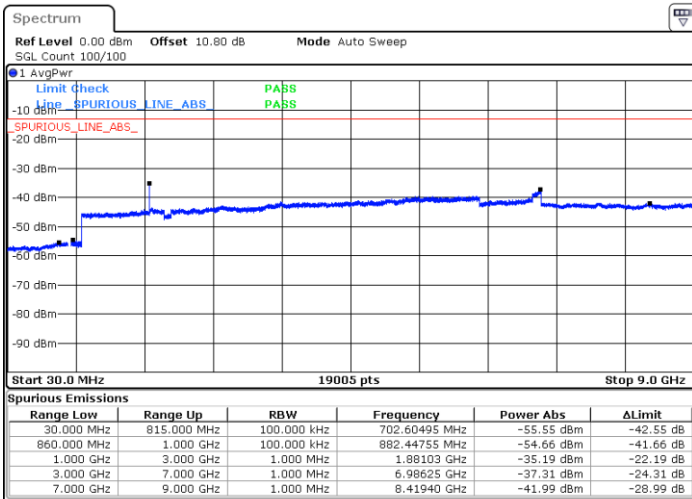


Date: 10.MAR.2020 22:25:21



Date: 10.MAR.2020 22:32:04

Highest Channel / 1RB1



Date: 10.MAR.2020 22:32:48



Frequency Stability

| Test Conditions  |                   | FR1 n5 (PI/2 BPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 20MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0036                              | PASS    |
| 40               | Normal Voltage    | 0.0085                              |         |
| 30               | Normal Voltage    | 0.0018                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0126                              |         |
| 0                | Normal Voltage    | 0.0007                              |         |
| -10              | Normal Voltage    | 0.0012                              |         |
| -20              | Normal Voltage    | 0.0013                              |         |
| -30              | Normal Voltage    | 0.0100                              |         |
| 20               | Maximum Voltage   | 0.0007                              |         |
| 20               | Normal Voltage    | 0.0006                              |         |
| 20               | Battery End Point | 0.0006                              |         |

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n66

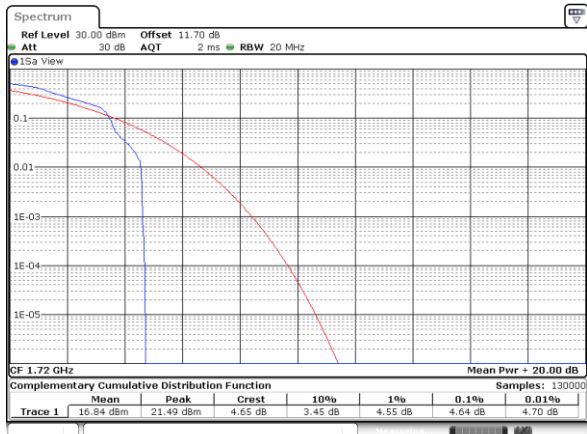
**Peak-to-Average Ratio**

| Mode       | FR1 n66 / 20MHz / DFT-S OFDM |         |       |         |             |
|------------|------------------------------|---------|-------|---------|-------------|
| Mod.       | PI/2 BPSK                    |         | QPSK  |         | Limit: 13dB |
| RB Size    | 1RB                          | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.64                         | 5.10    | 4.52  | 5.10    | PASS        |
| Middle CH  | 4.55                         | 5.25    | 4.49  | 5.16    |             |
| Highest CH | 4.52                         | 5.39    | 4.49  | 5.30    |             |
| Mode       | FR1 n66 / 20MHz / DFT-S OFDM |         |       |         |             |
| Mod.       | 16QAM                        |         | 64QAM |         | Limit: 13dB |
| RB Size    | 1RB                          | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 5.57                         | 6.29    | 6.35  | 6.72    | PASS        |
| Middle CH  | 5.51                         | 6.43    | 6.35  | 6.78    |             |
| Highest CH | 5.59                         | 6.29    | 6.35  | 6.78    |             |
| Mode       | FR1 n66 / 20MHz / DFT-S OFDM |         |       |         |             |
| Mod.       | 256QAM                       |         | -     |         | Limit: 13dB |
| RB Size    | 1RB                          | Full RB | -     | -       | Result      |
| Lowest CH  | 7.28                         | 7.33    | -     | -       | PASS        |
| Middle CH  | 7.22                         | 7.39    | -     | -       |             |
| Highest CH | 7.30                         | 7.36    | -     | -       |             |



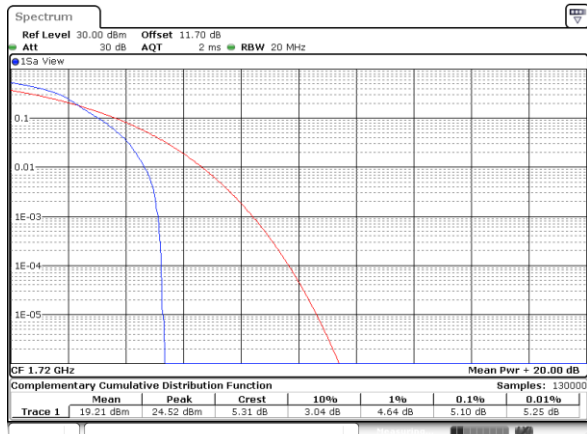
FR1 n66 / 20MHz / PI/2 BPSK / DFT-S OFDM

Lowest Channel / 1RB



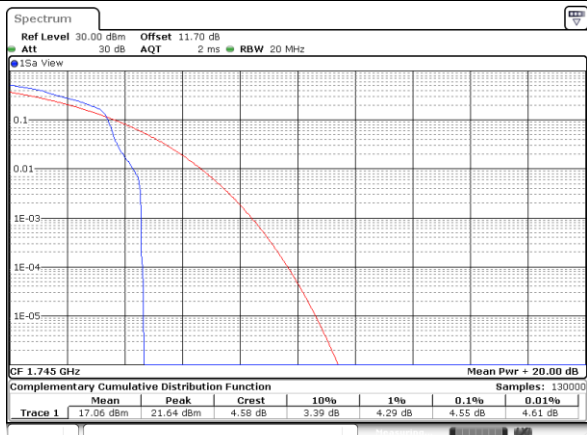
Date: 1.MAR.2020 07:03:11

Lowest Channel / Full RB



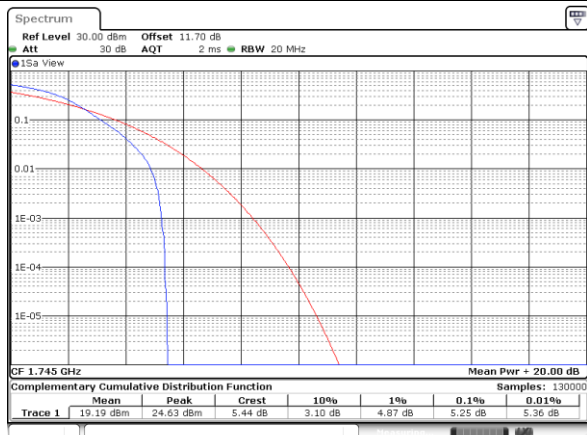
Date: 1.MAR.2020 07:02:51

Middle Channel / 1RB



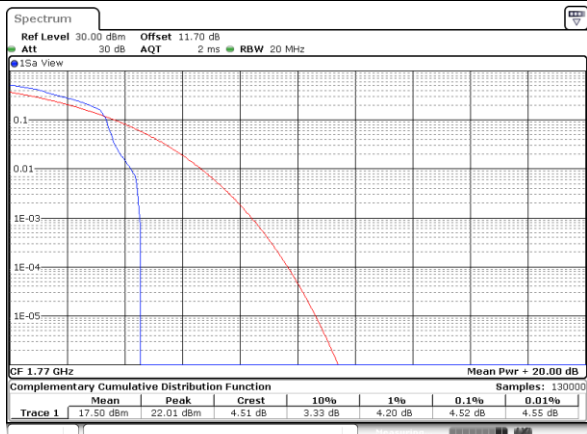
Date: 1.MAR.2020 07:25:08

Middle Channel / Full RB



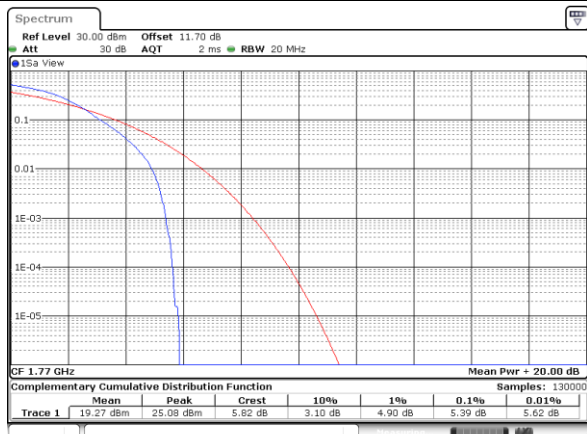
Date: 1.MAR.2020 07:23:48

Highest Channel / 1RB



Date: 1.MAR.2020 07:29:42

Highest Channel / Full RB

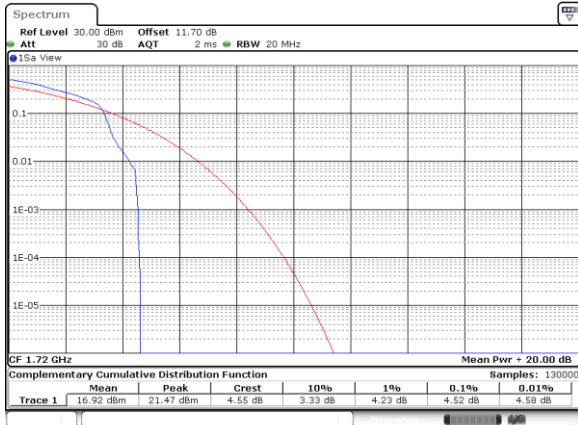


Date: 1.MAR.2020 07:26:49

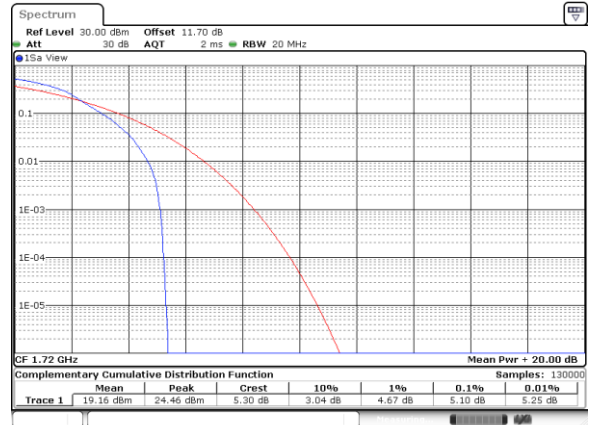


FR1 n66 / 20MHz / QPSK / DFT-S OFDM

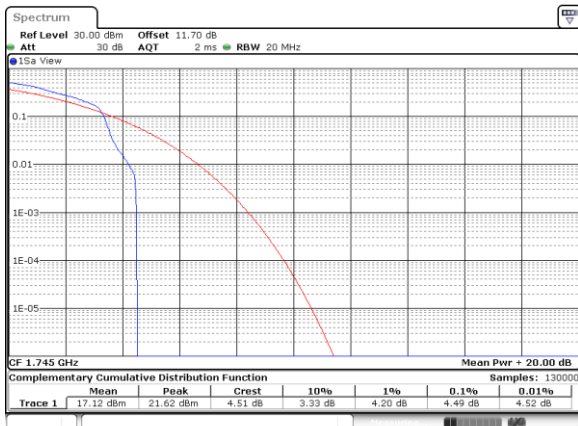
Lowest Channel / 1RB



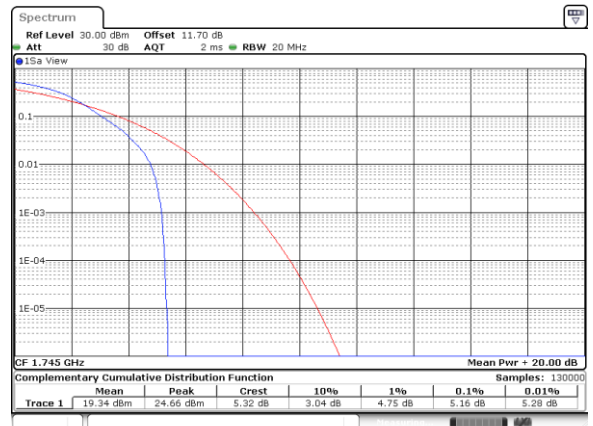
Lowest Channel / Full RB



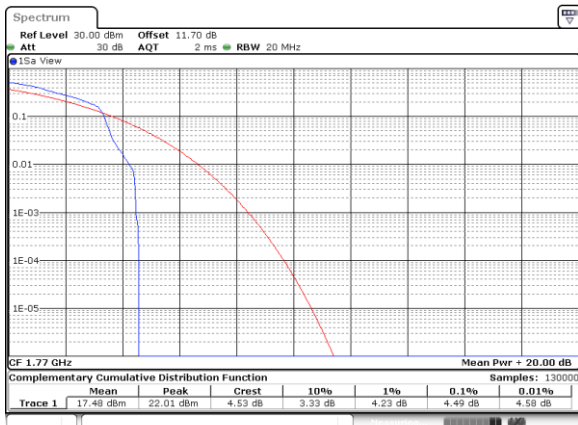
Middle Channel / 1RB



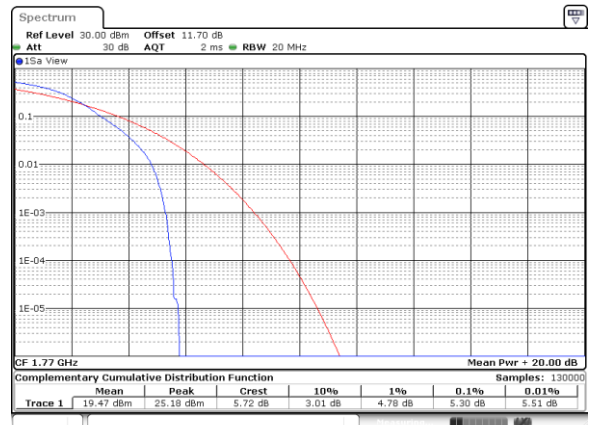
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

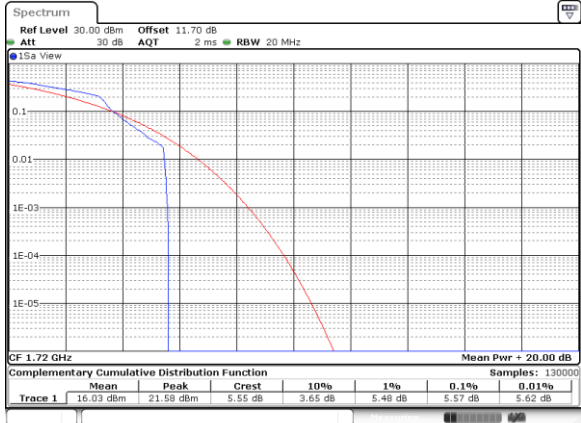






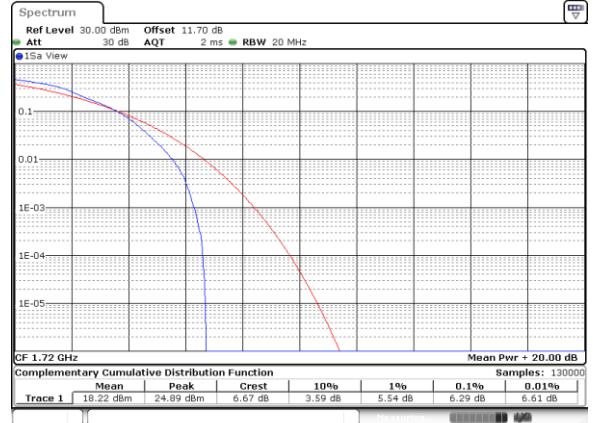
FR1 n66 / 20MHz / 16QAM / DFT-S OFDM

Lowest Channel / 1RB



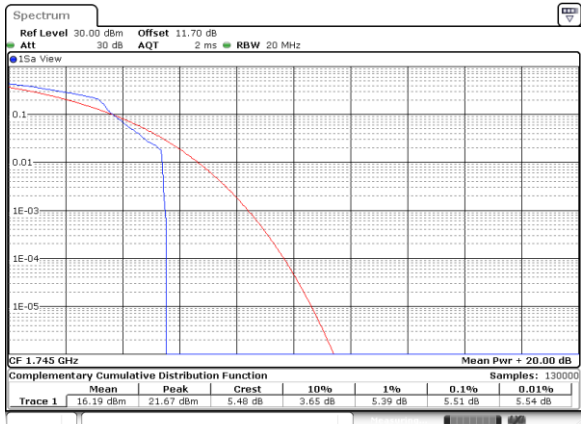
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Lowest Channel / Full RB



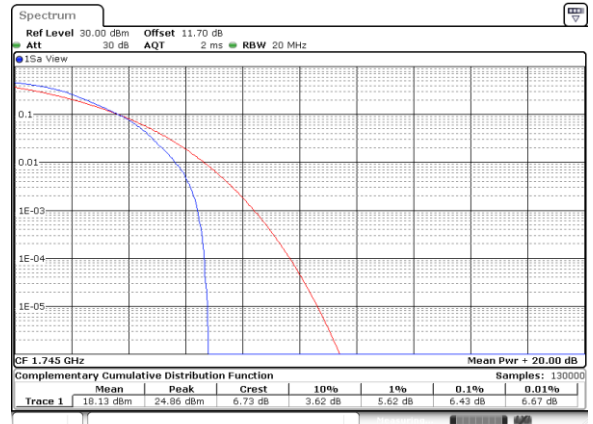
Date: 1.MAR.2020 07:09:42

Middle Channel / 1RB



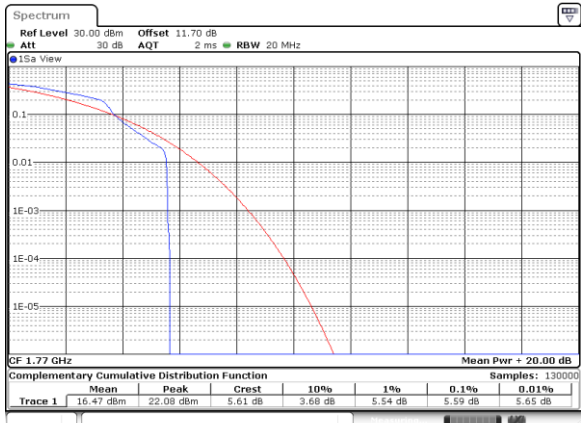
Date: 1.MAR.2020 07:12:35

Middle Channel / Full RB



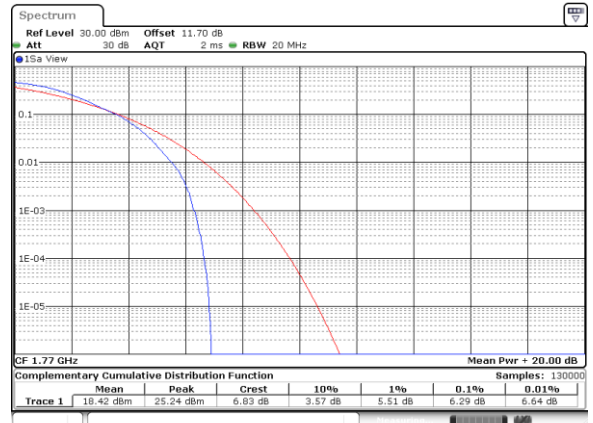
Date: 1.MAR.2020 07:24:14

Highest Channel / 1RB



Date: 1.MAR.2020 07:13:21

Highest Channel / Full RB

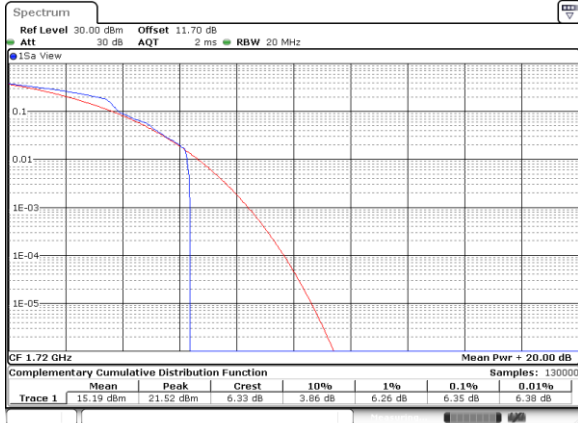


Date: 1.MAR.2020 07:28:00

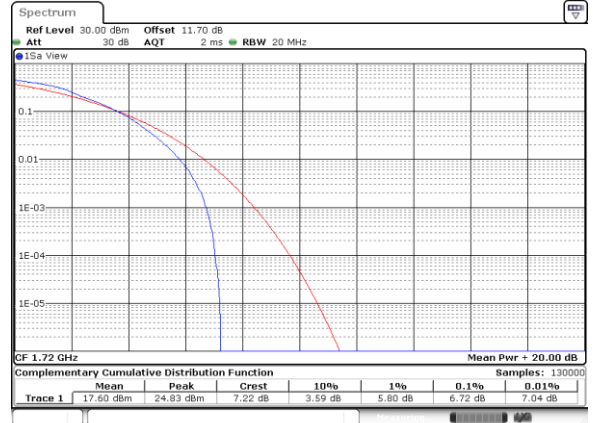


FR1 n66 / 20MHz / 64QAM / DFT-S OFDM

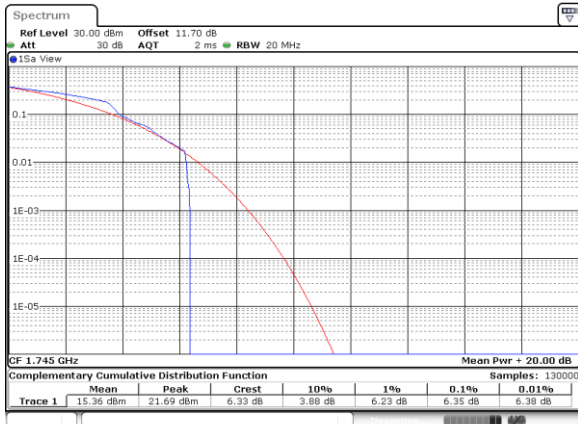
Lowest Channel / 1RB



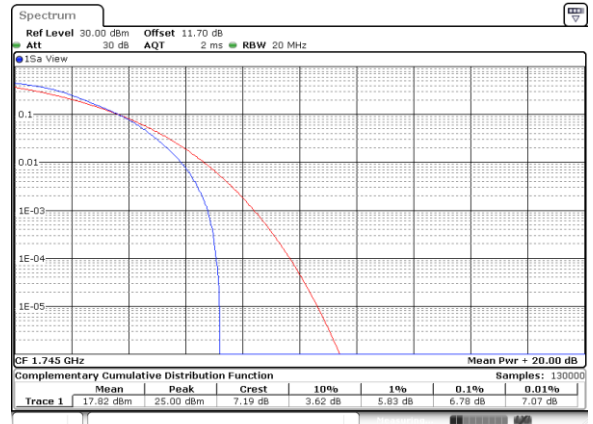
Lowest Channel / Full RB



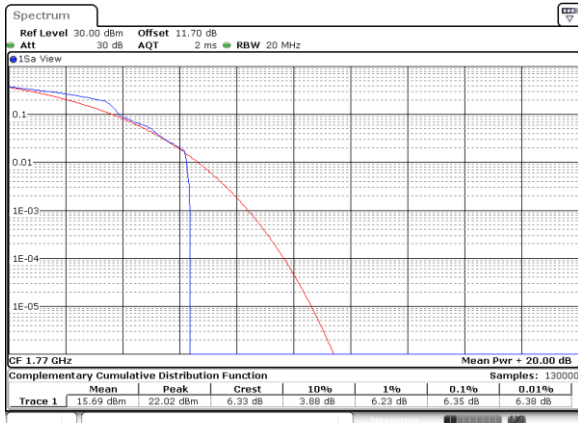
Middle Channel / 1RB



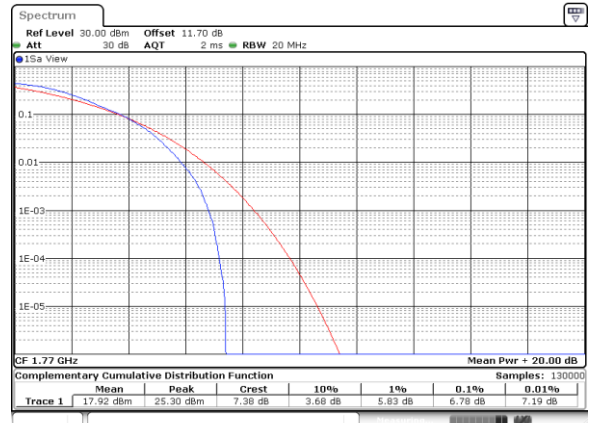
Middle Channel / Full RB



Highest Channel / 1RB



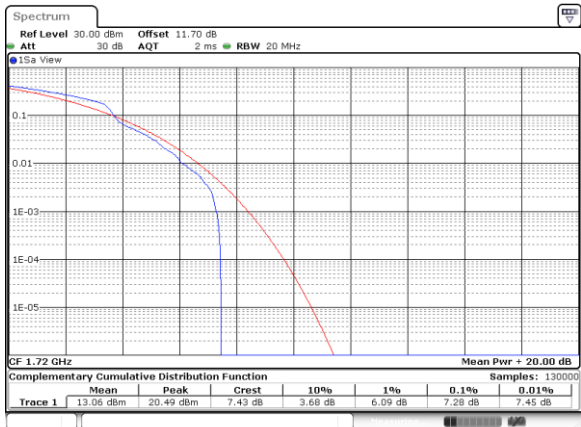
Highest Channel / Full RB



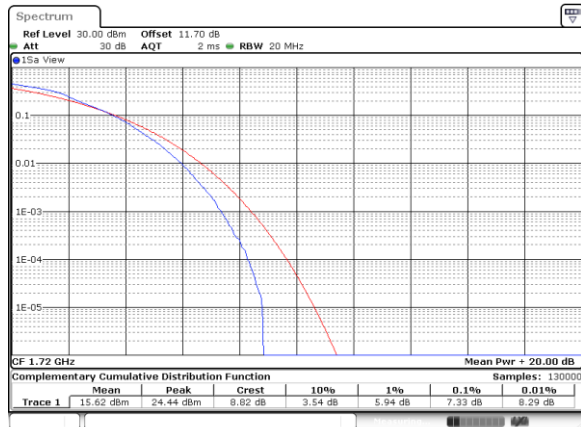


FR1 n66 / 20MHz / 256QAM / DFT-S OFDM

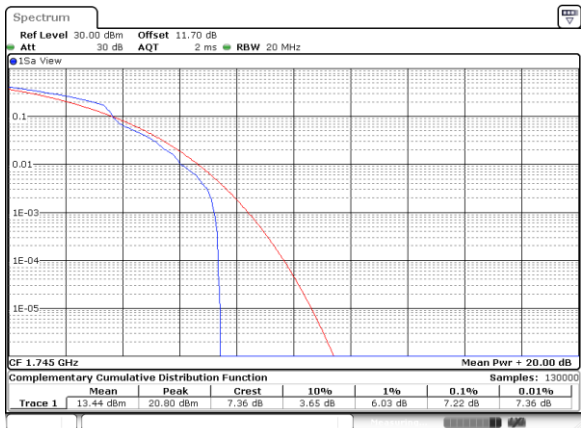
Lowest Channel / 1RB



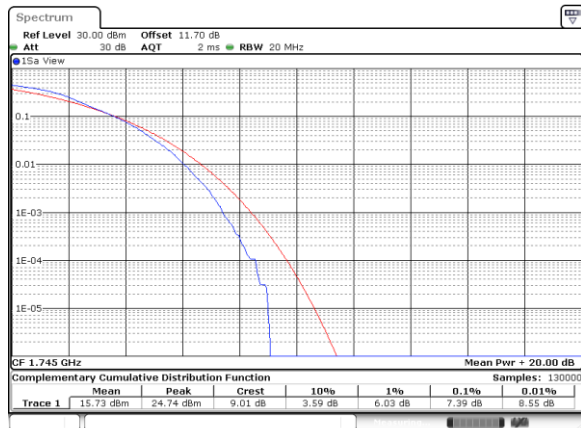
Lowest Channel / Full RB



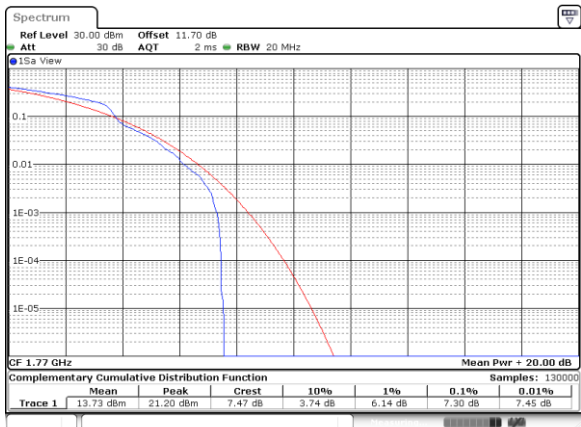
Middle Channel / 1RB



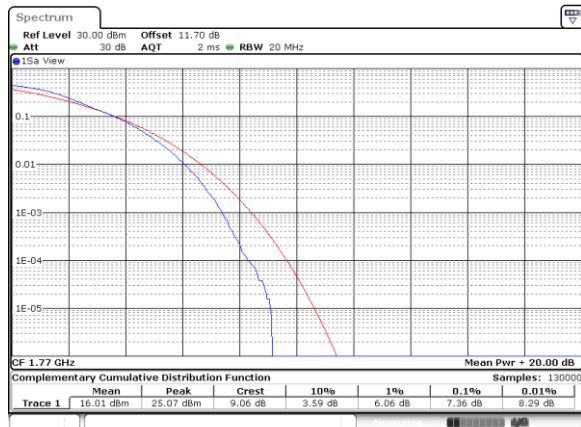
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





**26dB Bandwidth**

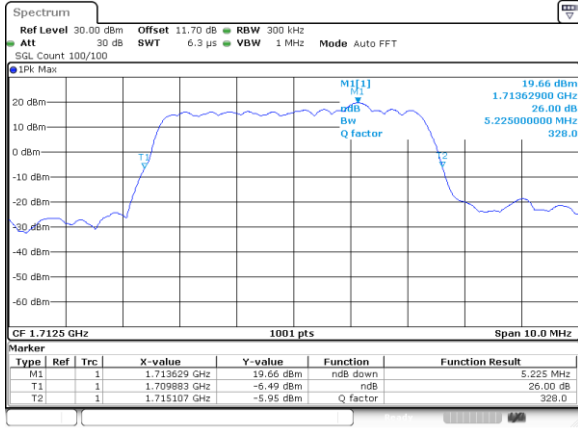
| Mode       | FR1 n66 : 26dB BW(MHz) / DFT-S OFDM |       |           |       |           |       |           |       |
|------------|-------------------------------------|-------|-----------|-------|-----------|-------|-----------|-------|
| BW         | 5MHz                                |       | 10MHz     |       | 15MHz     |       | 20MHz     |       |
| Mod.       | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Lowest CH  | 5.23                                | 5.19  | 9.61      | 9.61  | 14.24     | 14.30 | 18.78     | 18.74 |
| Middle CH  | 5.43                                | 5.15  | 9.71      | 9.61  | 14.24     | 14.24 | 18.82     | 18.86 |
| Highest CH | 5.26                                | 5.25  | 9.69      | 9.61  | 14.42     | 14.24 | 18.66     | 18.82 |
| Mode       | FR1 n66 : 26dB BW(MHz) / DFT-S OFDM |       |           |       |           |       |           |       |
| BW         | 5MHz                                |       | 10MHz     |       | 15MHz     |       | 20MHz     |       |
| Mod.       | 16QAM                               | 64QAM | 16QAM     | 64QAM | 16QAM     | 64QAM | 16QAM     | 64QAM |
| Lowest CH  | 5.36                                | 5.35  | 9.99      | 9.75  | 14.24     | 14.36 | 18.74     | 18.90 |
| Middle CH  | 5.37                                | 5.46  | 9.73      | 9.81  | 14.30     | 14.18 | 18.74     | 18.78 |
| Highest CH | 5.42                                | 5.35  | 10.03     | 9.75  | 14.30     | 14.15 | 18.74     | 18.86 |
| Mode       | FR1 n66 : 26dB BW(MHz) / DFT-S OFDM |       |           |       |           |       |           |       |
| BW         | 5MHz                                |       | 10MHz     |       | 15MHz     |       | 20MHz     |       |
| Mod.       | 256QAM                              | -     | 256QAM    | -     | 256QAM    | -     | 256QAM    | -     |
| Lowest CH  | 5.18                                |       | 9.65      |       | 14.27     |       | 18.82     |       |
| Middle CH  | 5.17                                |       | 9.67      |       | 14.27     |       | 18.86     |       |
| Highest CH | 5.46                                |       | 9.65      |       | 14.15     |       | 18.82     |       |

| Mode       | FR1 n66 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |       |        |
|------------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW         | 5MHz                             |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Lowest CH  | 5.15                             | 5.39   | 10.11 | 9.99   | 14.90 | 14.99  | 19.82 | 19.86  |
| Middle CH  | 5.15                             | 5.25   | 10.35 | 10.15  | 15.20 | 14.93  | 20.06 | 19.82  |
| Highest CH | 5.25                             | 5.14   | 10.03 | 10.03  | 14.90 | 14.87  | 19.86 | 19.82  |
| Mode       | FR1 n66 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |       |        |
| BW         | 5MHz                             |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | 5.17                             | 5.26   | 10.09 | 10.15  | 15.02 | 14.96  | 19.74 | 19.82  |
| Middle CH  | 5.18                             | 5.15   | 10.01 | 10.03  | 14.90 | 14.90  | 20.02 | 19.82  |
| Highest CH | 5.20                             | 5.23   | 9.99  | 10.01  | 15.05 | 14.90  | 19.78 | 19.82  |



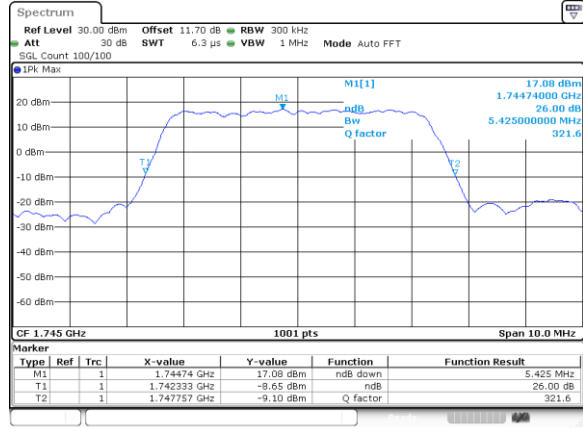
FR1 n66 / 5MHz / PI/2 BPSK

Lowest Channel / DFT-S OFDM



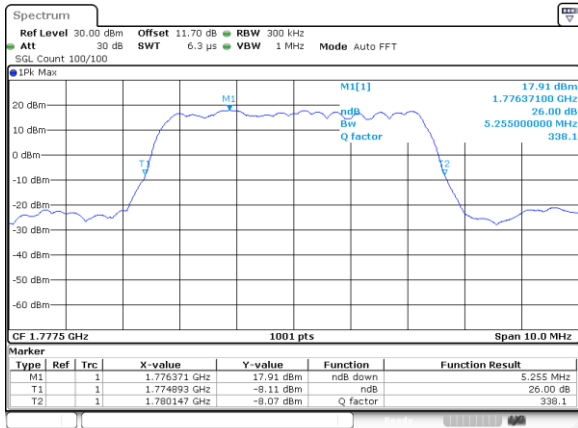
Date: 1.MAR.2020 03:23:52

Middle Channel / DFT-S OFDM



Date: 1.MAR.2020 03:42:09

Highest Channel / DFT-S OFDM

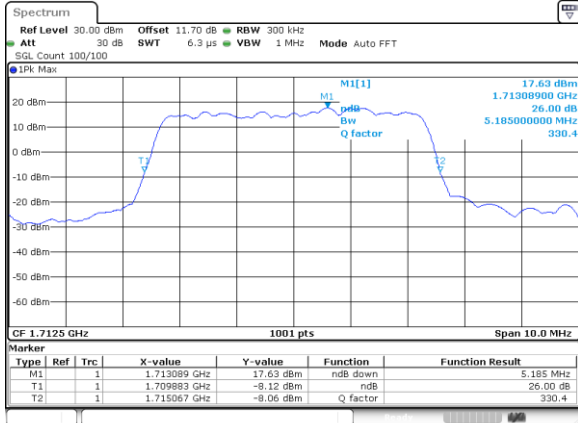


Date: 1.MAR.2020 03:52:03



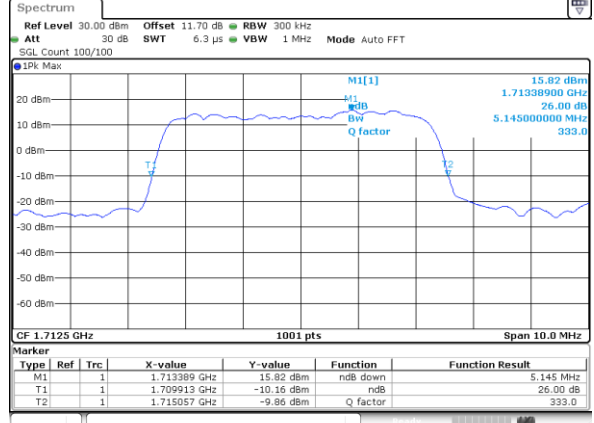
FR1 n66 / 5MHz / QPSK

Lowest Channel / DFT-S OFDM



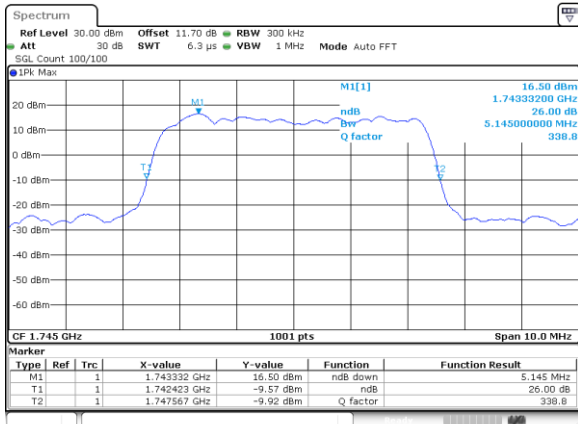
Date: 1.MAR.2020 03:24:21

Lowest Channel / CP OFDM



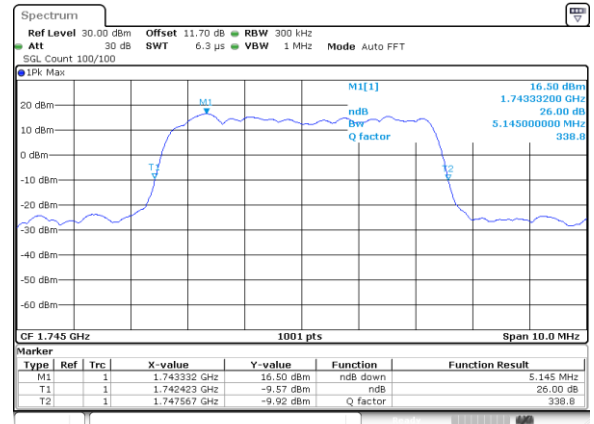
Date: 1.MAR.2020 07:46:51

Middle Channel / DFT-S OFDM



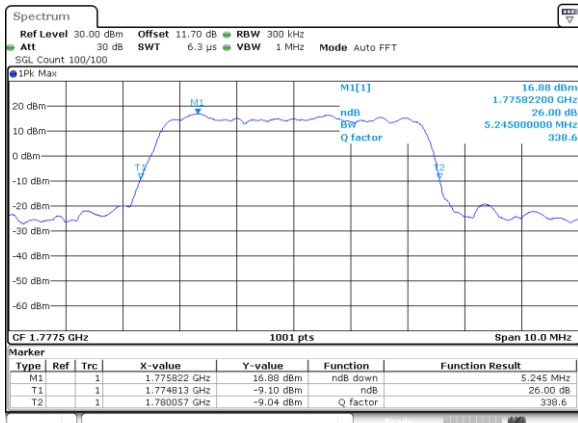
Date: 1.MAR.2020 07:48:50

Middle Channel / CP OFDM



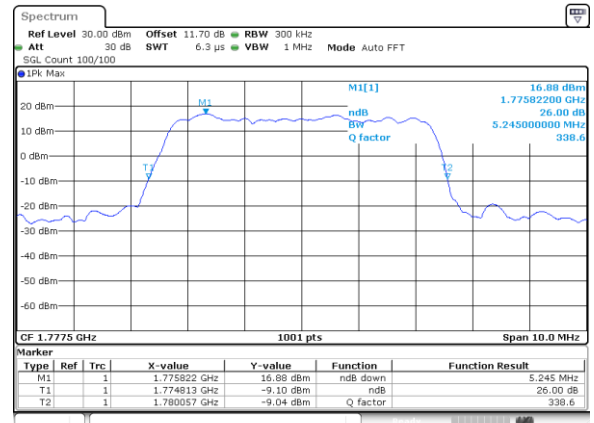
Date: 1.MAR.2020 07:48:50

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 07:51:55

Highest Channel / CP OFDM

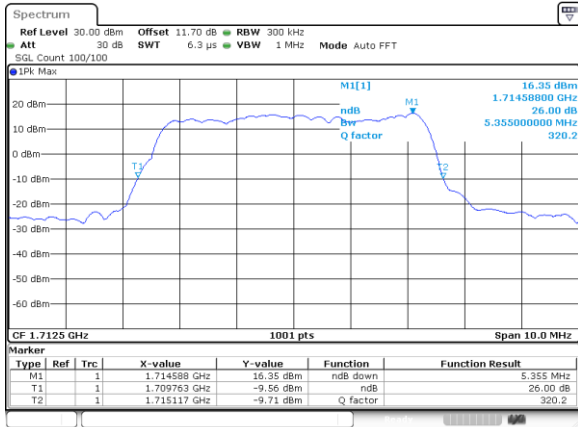


Date: 1.MAR.2020 07:51:55

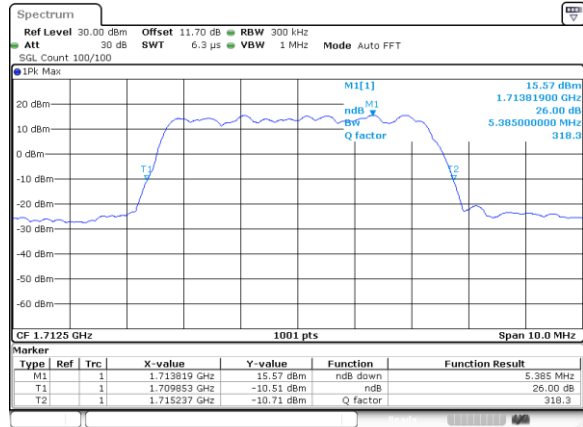


FR1 n66 / 5MHz / 16QAM

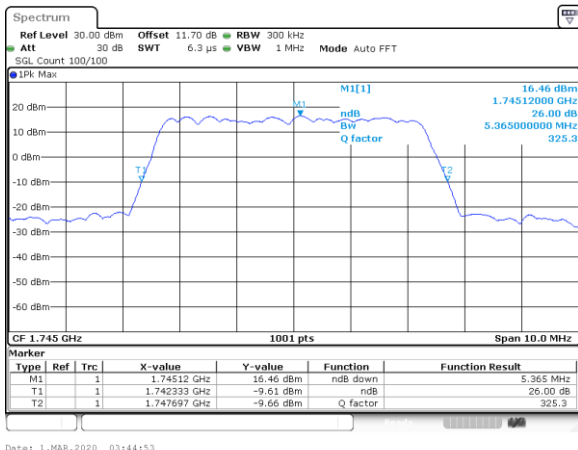
Lowest Channel / DFT-S OFDM



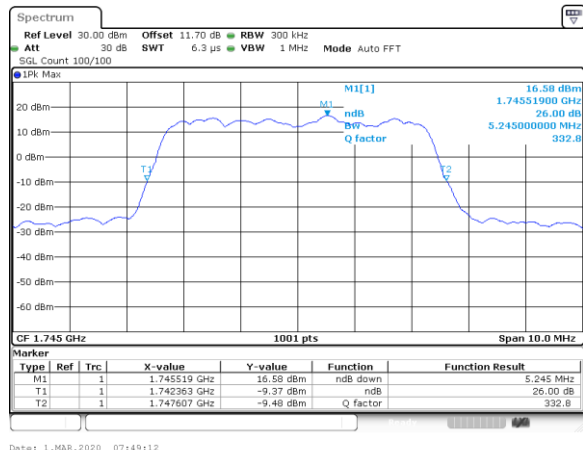
Lowest Channel / CP OFDM



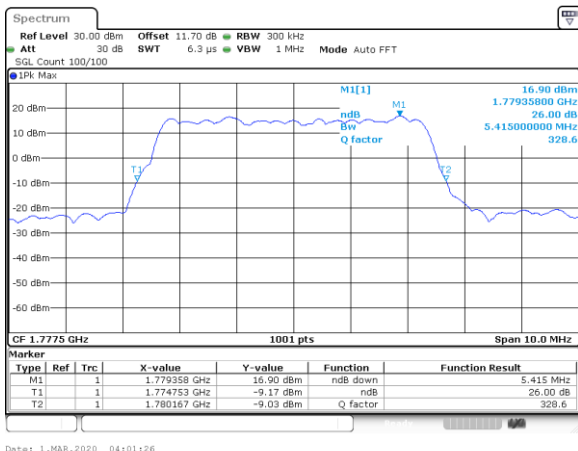
Middle Channel / DFT-S OFDM



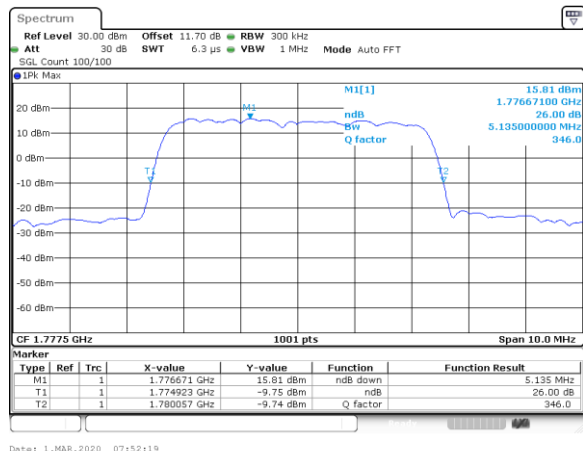
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



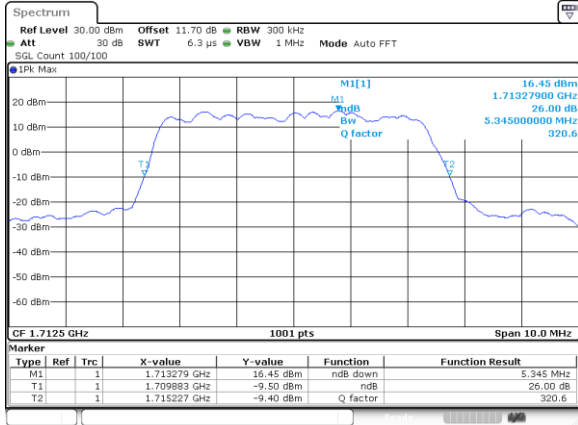
Highest Channel / CP OFDM





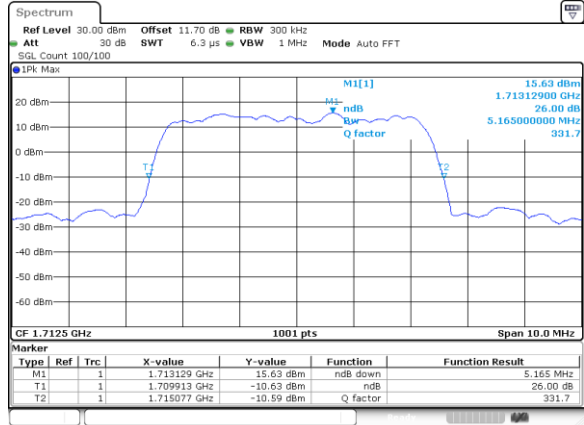
FR1 n66 / 5MHz / 64QAM

Lowest Channel / DFT-S OFDM



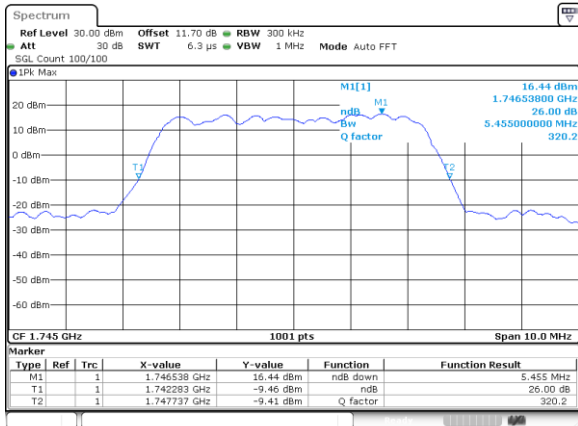
Date: 1.MAR.2020 03:32:55

Lowest Channel / CP OFDM



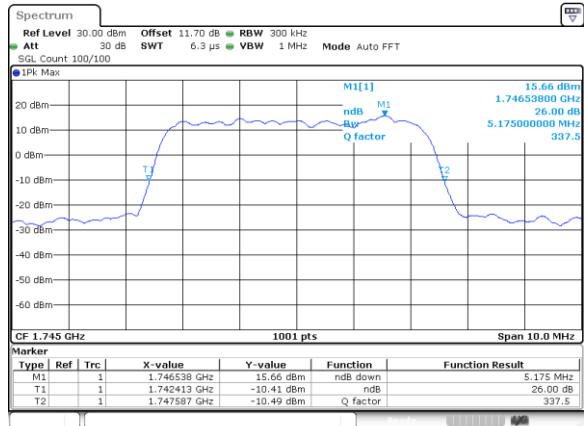
Date: 1.MAR.2020 07:47:44

Middle Channel / DFT-S OFDM



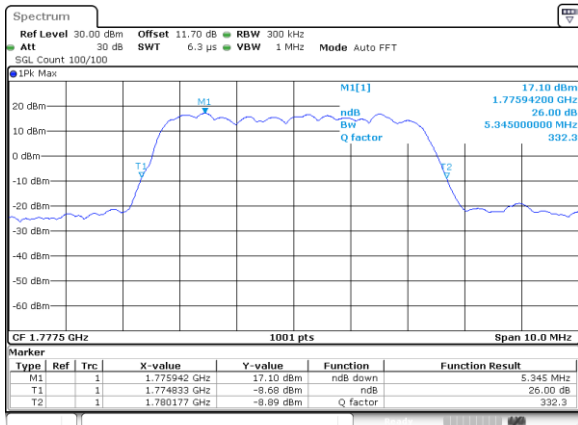
Date: 1.MAR.2020 03:47:16

Middle Channel / CP OFDM



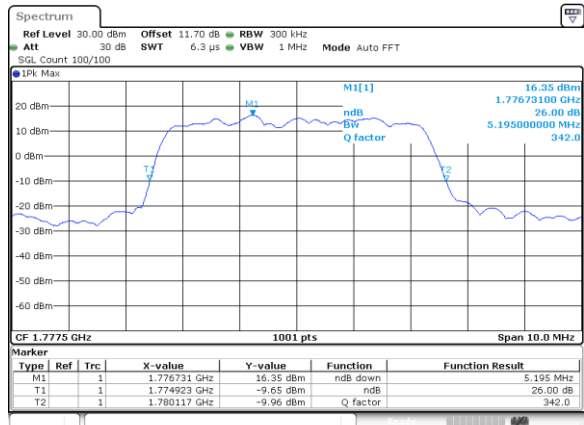
Date: 1.MAR.2020 07:49:33

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 04:01:52

Highest Channel / CP OFDM



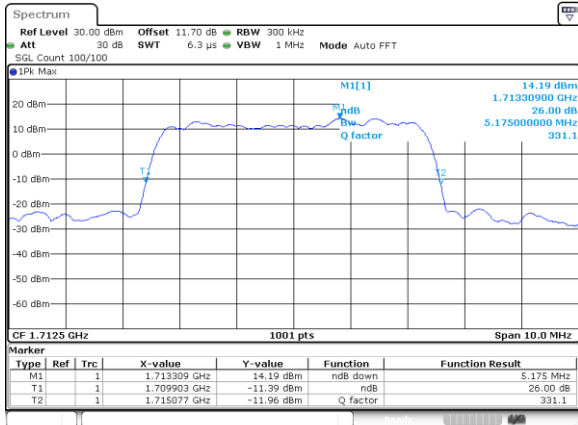
Date: 1.MAR.2020 07:55:31





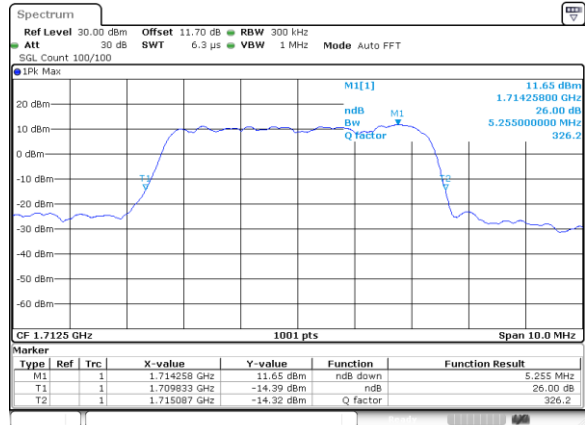
FR1 n66 / 5MHz / 256QAM

Lowest Channel / DFT-S OFDM



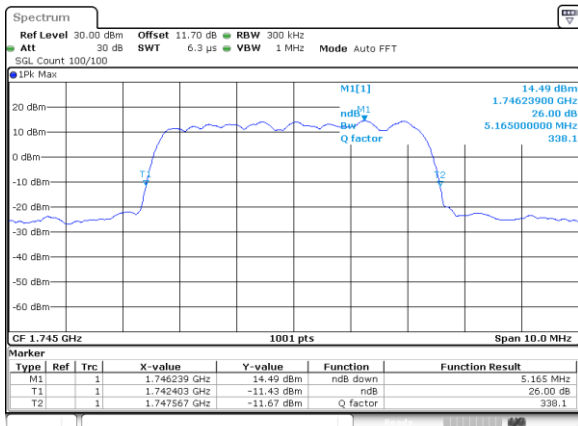
Date: 1.MAR.2020 03:39:28

Lowest Channel / CP OFDM



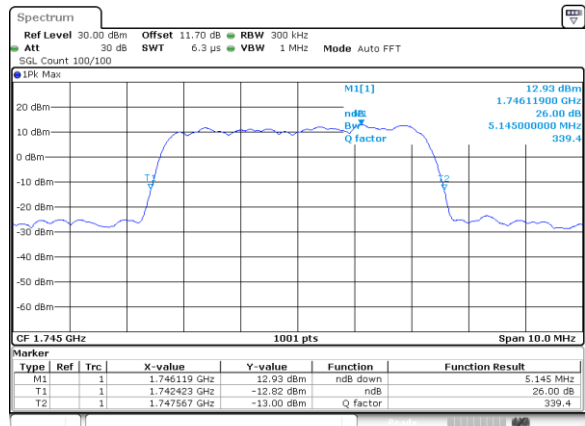
Date: 1.MAR.2020 07:48:09

Middle Channel / DFT-S OFDM



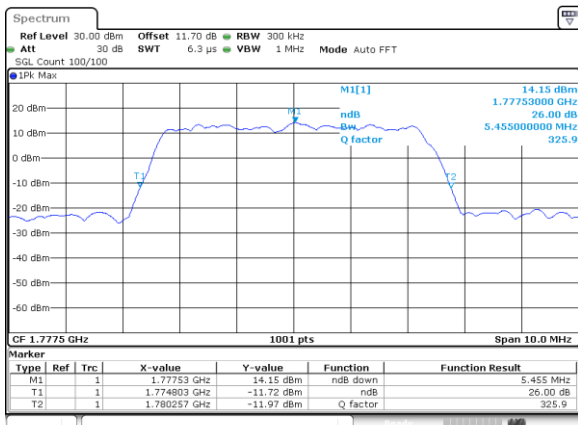
Date: 1.MAR.2020 03:47:51

Middle Channel / CP OFDM



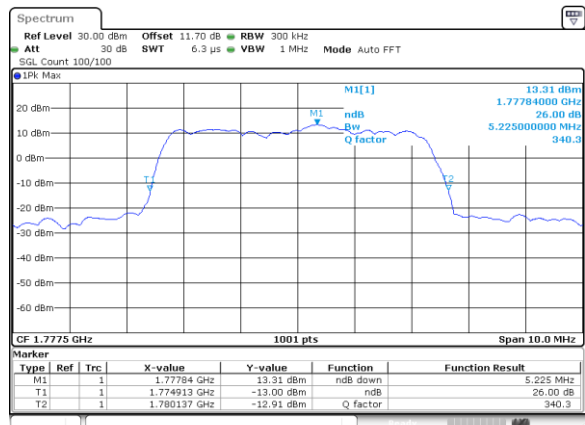
Date: 1.MAR.2020 07:49:54

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 04:08:05

Highest Channel / CP OFDM

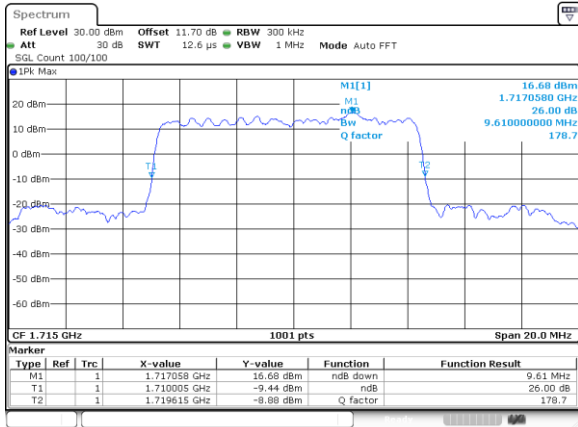


Date: 1.MAR.2020 07:56:03



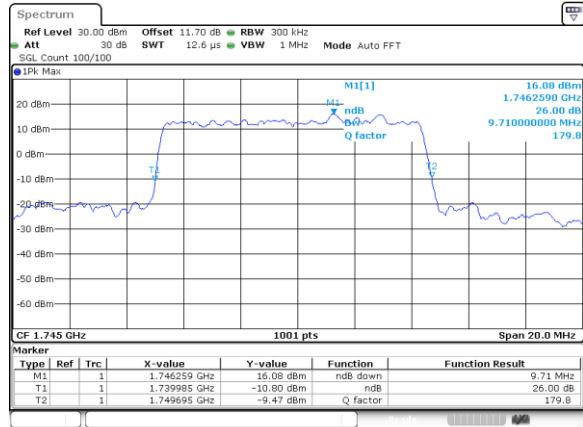
FR1 n66 / 10MHz / PI/2 BPSK

Lowest Channel / DFT-S OFDM



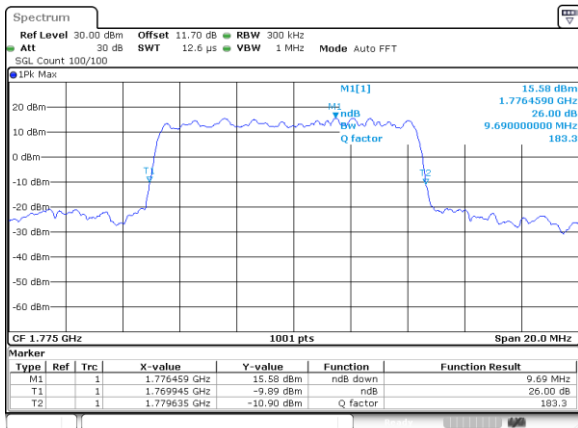
Date: 1.MAR.2020 04:09:21

Middle Channel / DFT-S OFDM



Date: 1.MAR.2020 04:38:13

Highest Channel / DFT-S OFDM

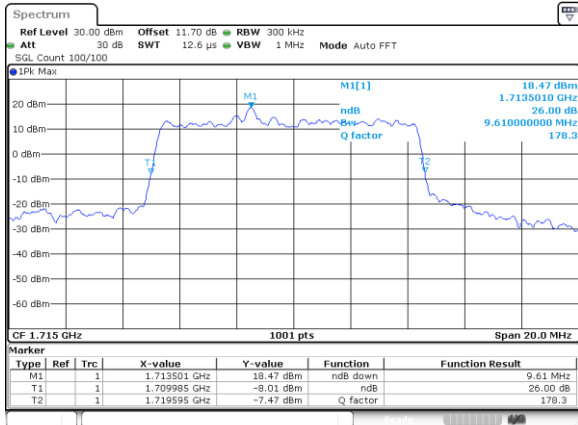


Date: 1.MAR.2020 04:44:53



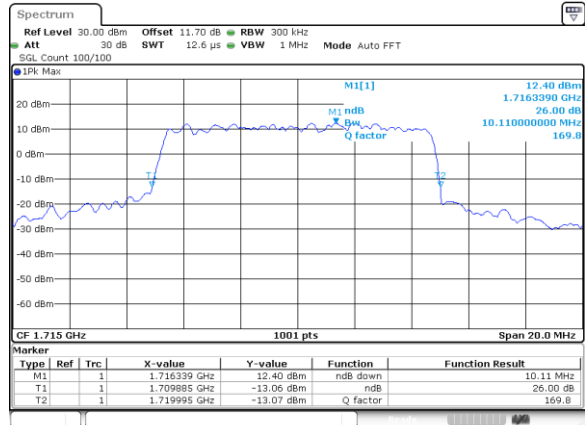
FR1 n66 / 10MHz / QPSK

Lowest Channel / DFT-S OFDM



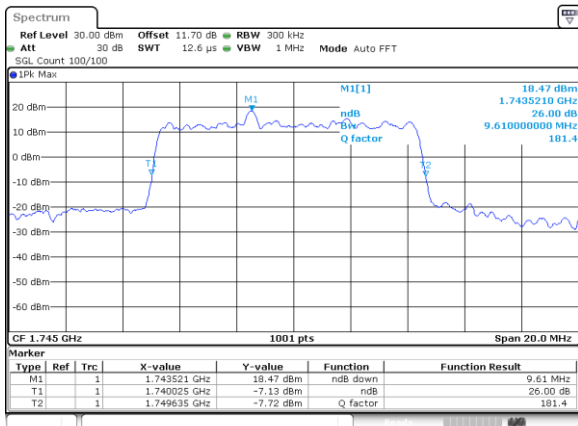
Date: 1.MAR.2020 04:13:27

Lowest Channel / CP OFDM



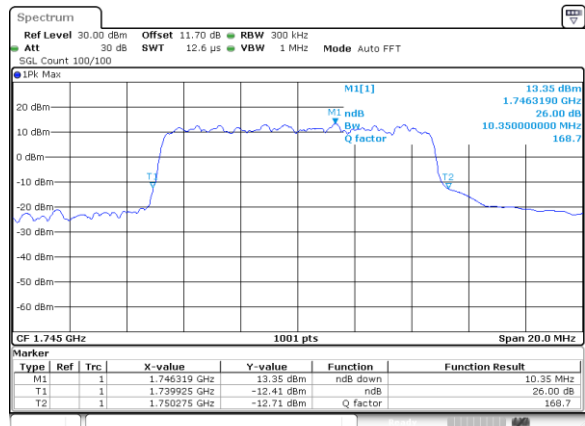
Date: 1.MAR.2020 07:57:55

Middle Channel / DFT-S OFDM



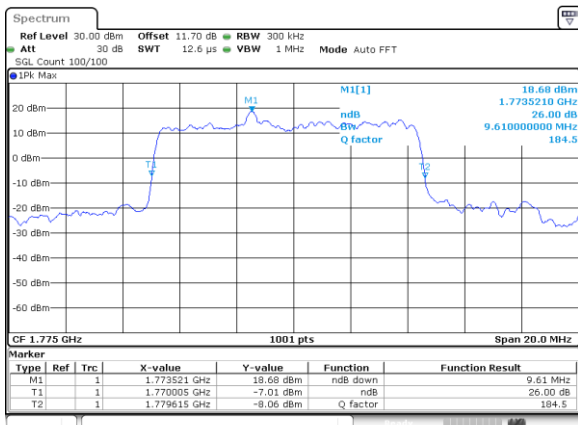
Date: 1.MAR.2020 04:13:48

Middle Channel / CP OFDM



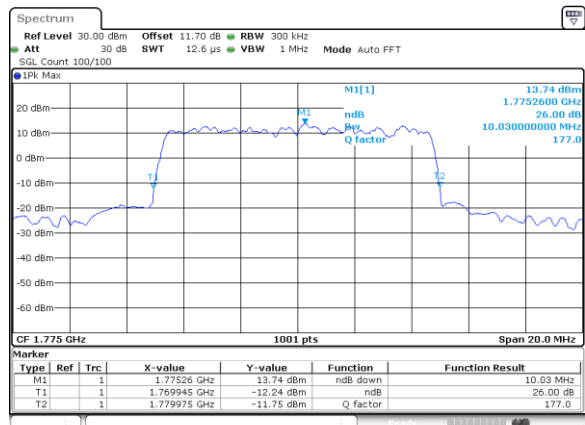
Date: 1.MAR.2020 07:59:46

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 04:50:15

Highest Channel / CP OFDM

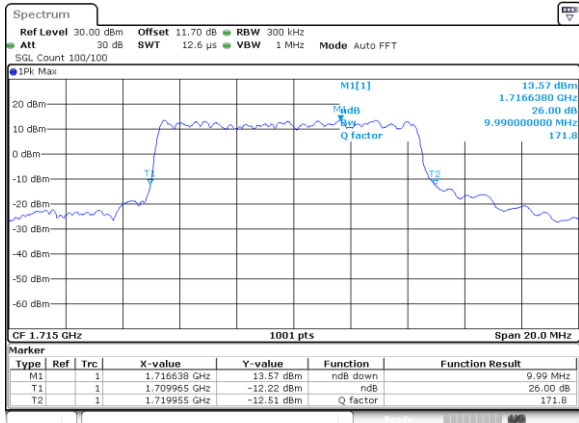


Date: 1.MAR.2020 08:02:15



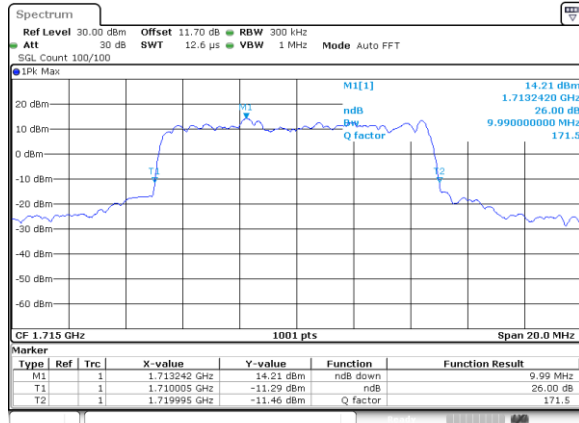
FR1 n66 / 10MHz / 16QAM

Lowest Channel / DFT-S OFDM



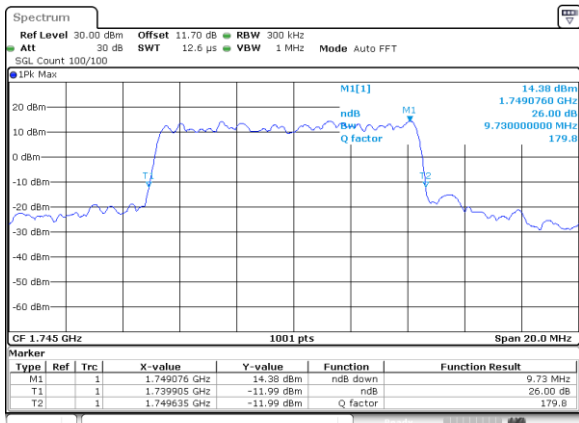
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Lowest Channel / CP OFDM



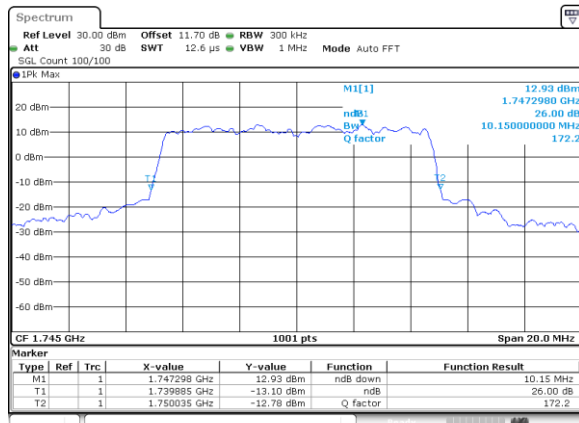
Date: 1.MAR.2020 07:58:22

Middle Channel / DFT-S OFDM



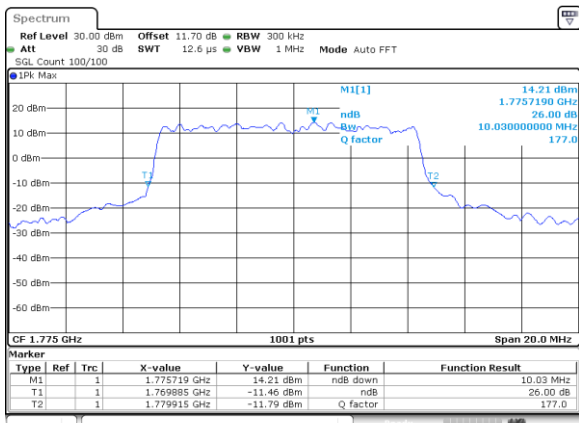
Date: 1.MAR.2020 04:41:04

Middle Channel / CP OFDM



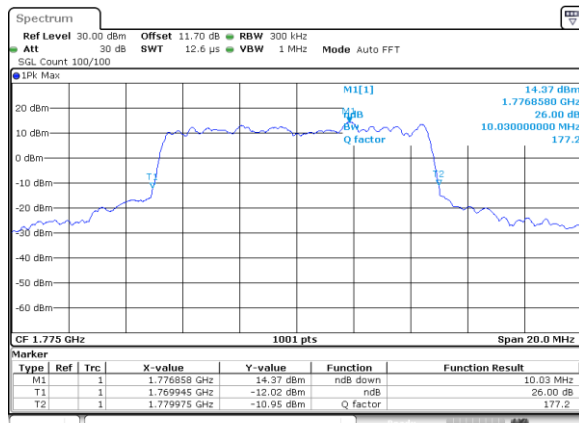
Date: 1.MAR.2020 08:00:12

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 04:50:38

Highest Channel / CP OFDM

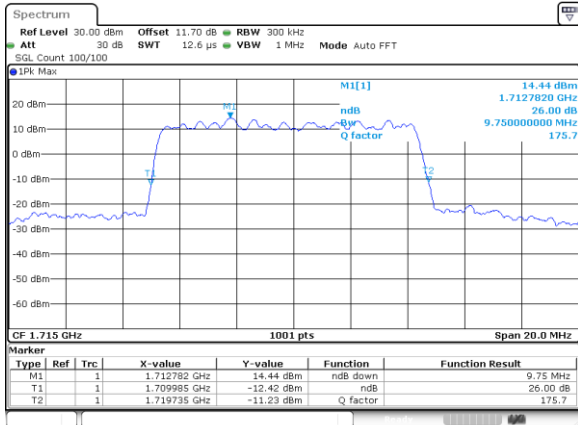


Date: 1.MAR.2020 08:02:51

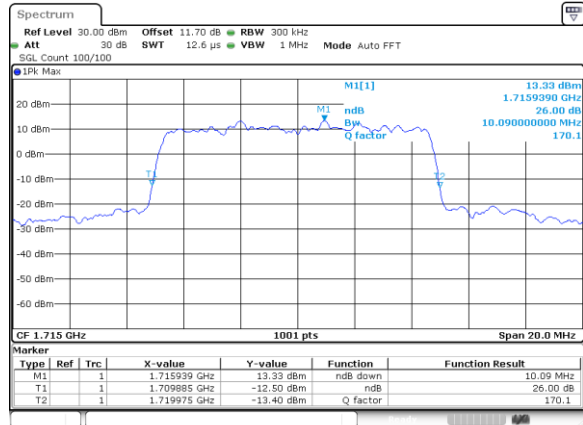


FR1 n66 / 10MHz / 64QAM

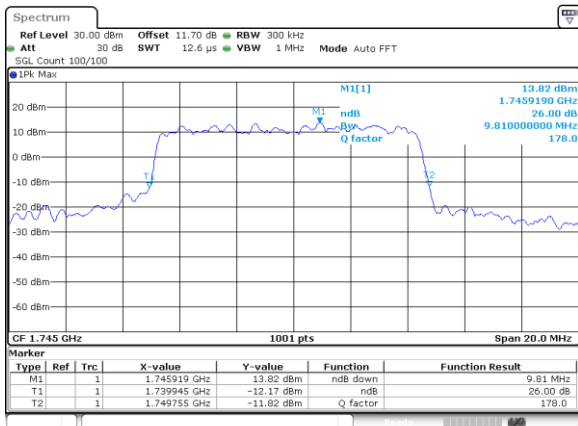
Lowest Channel / DFT-S OFDM



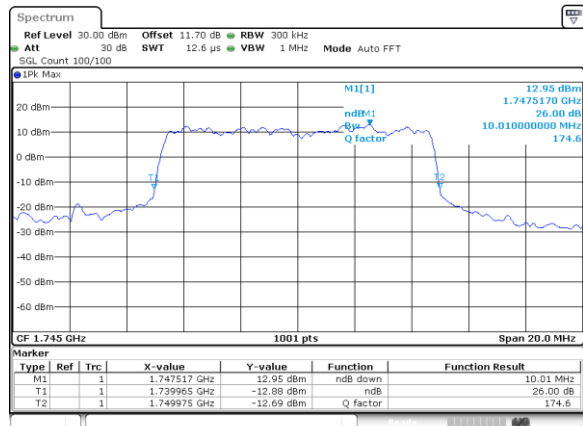
Lowest Channel / CP OFDM



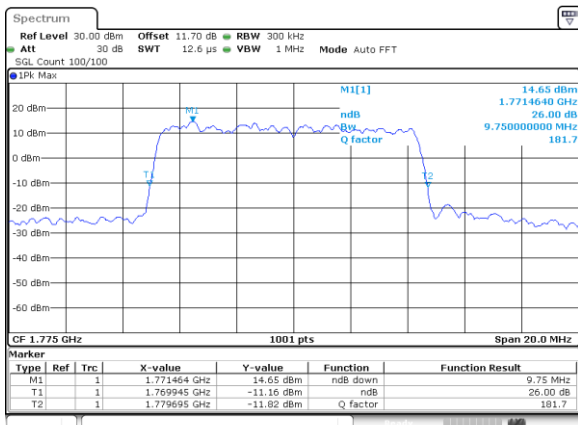
Middle Channel / DFT-S OFDM



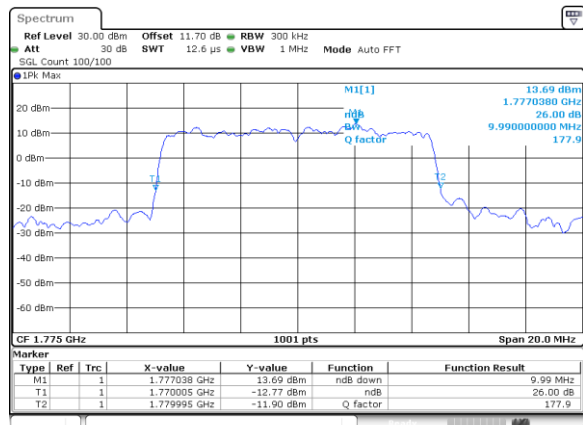
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



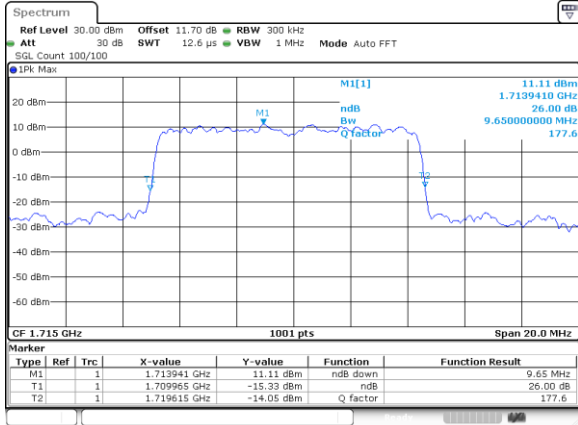
Highest Channel / CP OFDM



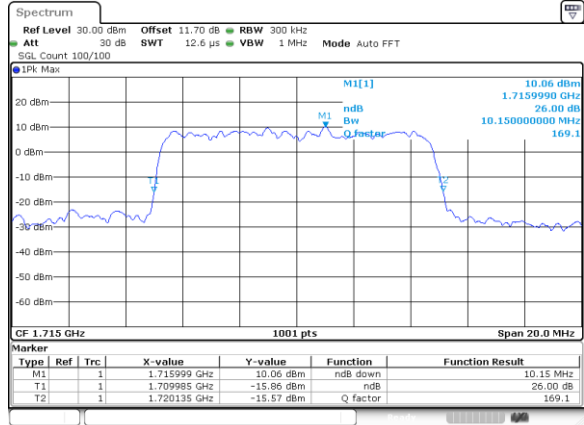


FR1 n66 / 10MHz / 256QAM

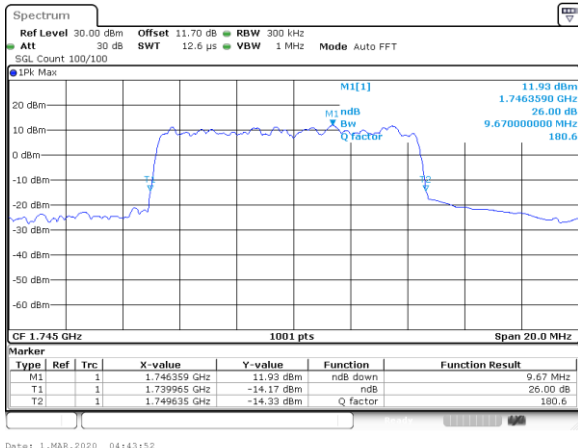
Lowest Channel / DFT-S OFDM



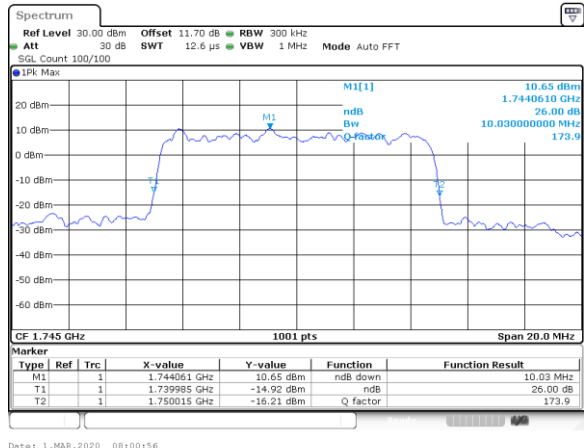
Lowest Channel / CP OFDM



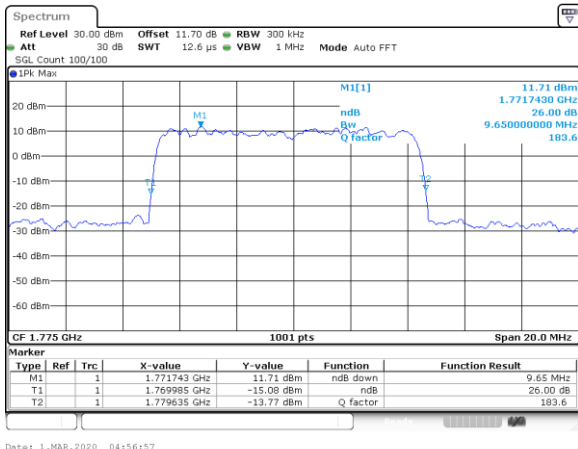
Middle Channel / DFT-S OFDM



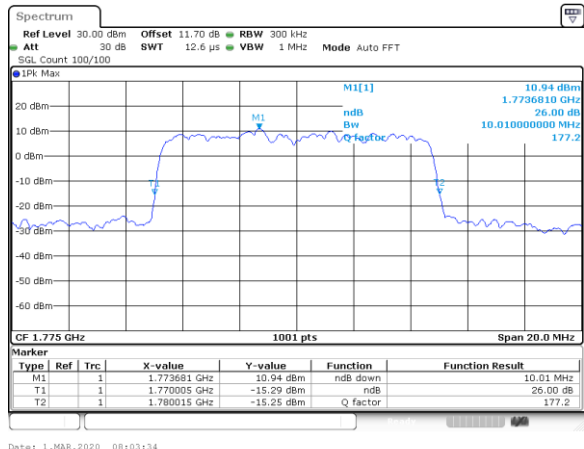
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



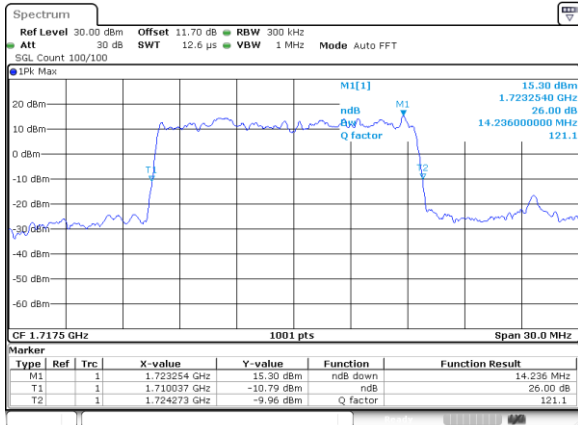
Highest Channel / CP OFDM





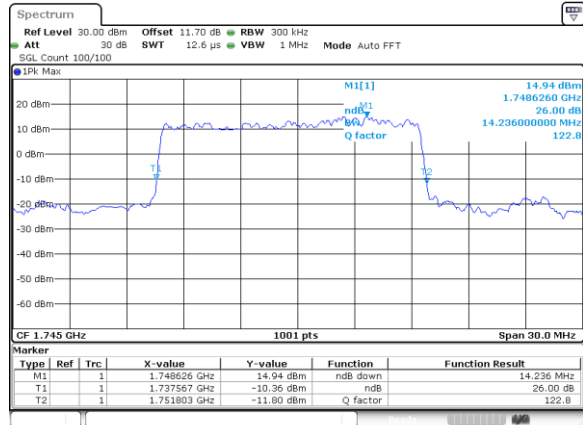
FR1 n66 / 15MHz / PI/2 BPSK

Lowest Channel / DFT-S OFDM



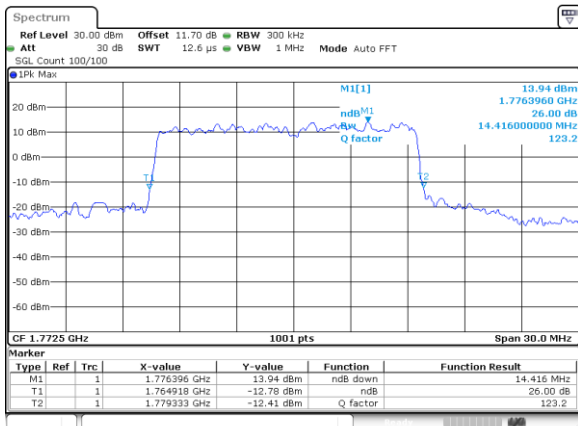
Date: 1.MAR.2020 05:12:05

Middle Channel / DFT-S OFDM



Date: 1.MAR.2020 06:42:01

Highest Channel / DFT-S OFDM

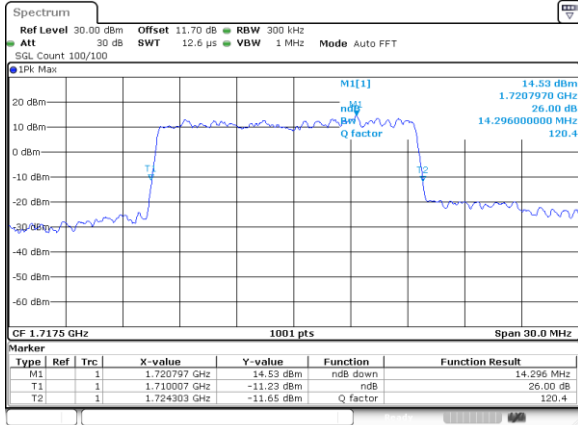


Date: 1.MAR.2020 06:51:43



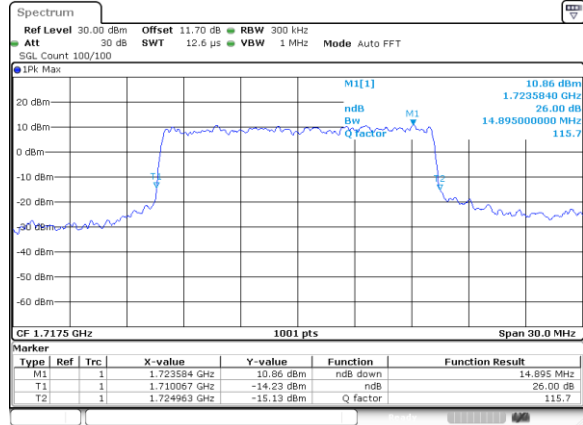
FR1 n66 / 15MHz / QPSK

Lowest Channel / DFT-S OFDM



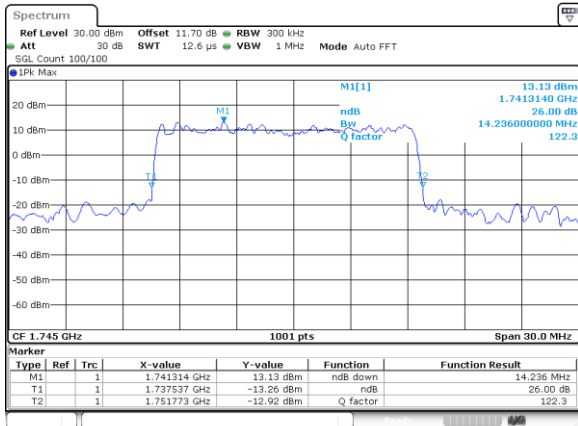
Date: 1.MAR.2020 05:16:17

Lowest Channel / CP OFDM



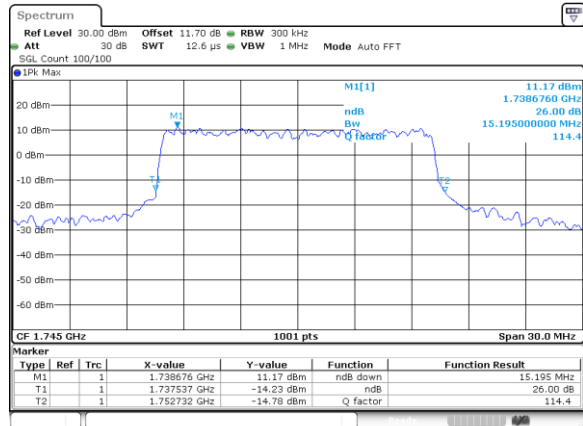
Date: 1.MAR.2020 08:06:07

Middle Channel / DFT-S OFDM



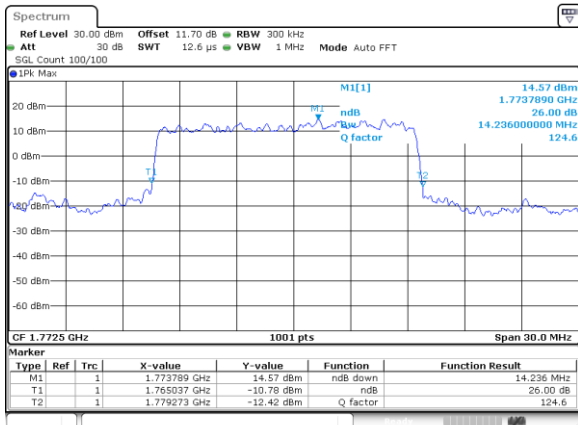
Date: 1.MAR.2020 06:42:38

Middle Channel / CP OFDM



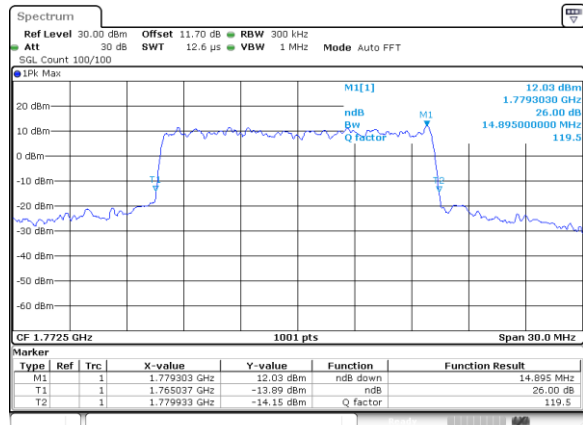
Date: 1.MAR.2020 08:08:51

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 06:48:48

Highest Channel / CP OFDM



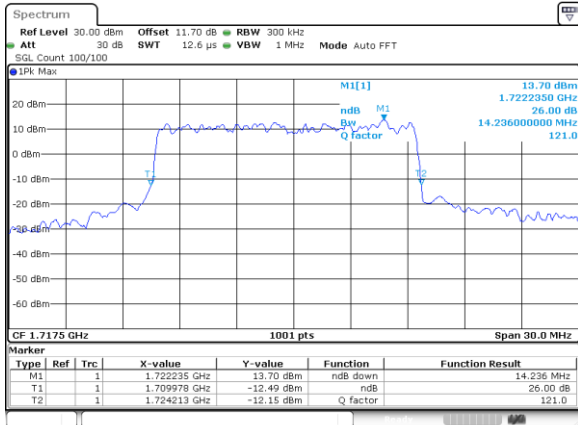
Date: 1.MAR.2020 08:11:33



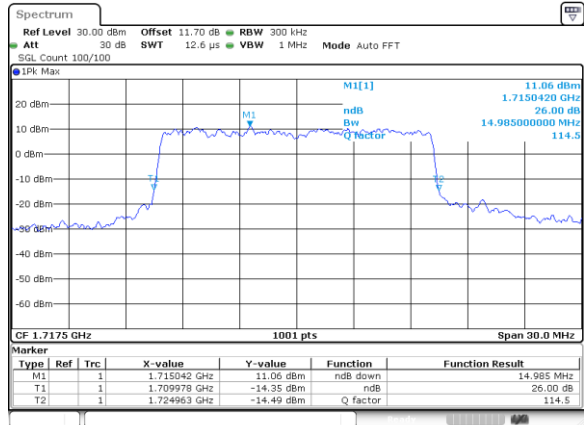


FR1 n66 / 15MHz / 16QAM

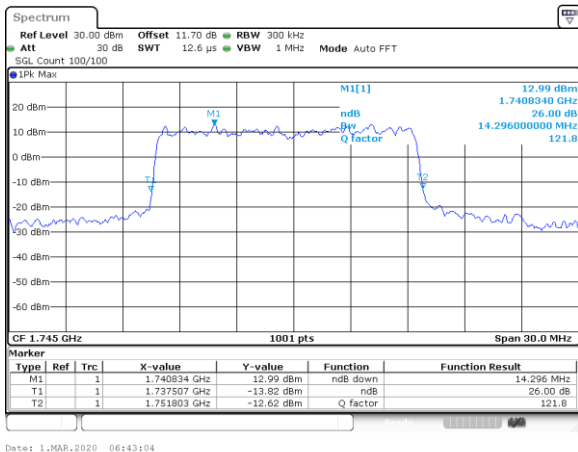
Lowest Channel / DFT-S OFDM



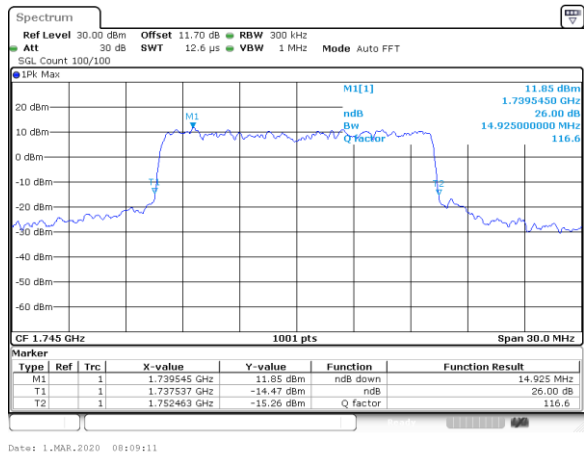
Lowest Channel / CP OFDM



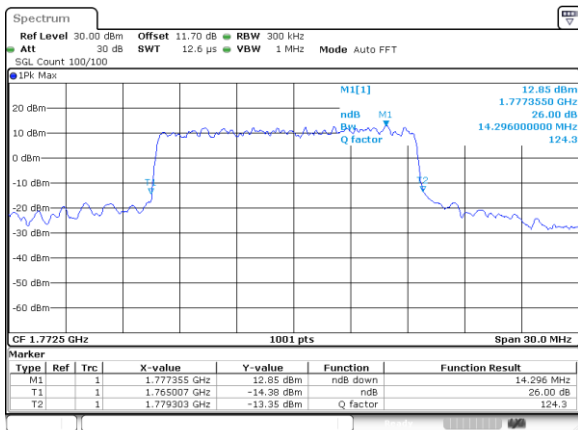
Middle Channel / DFT-S OFDM



Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



Highest Channel / CP OFDM

