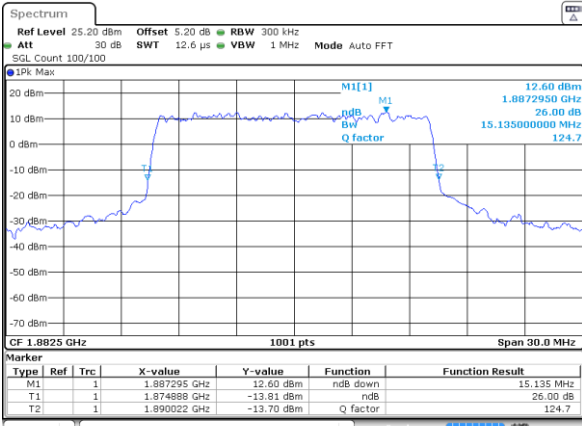




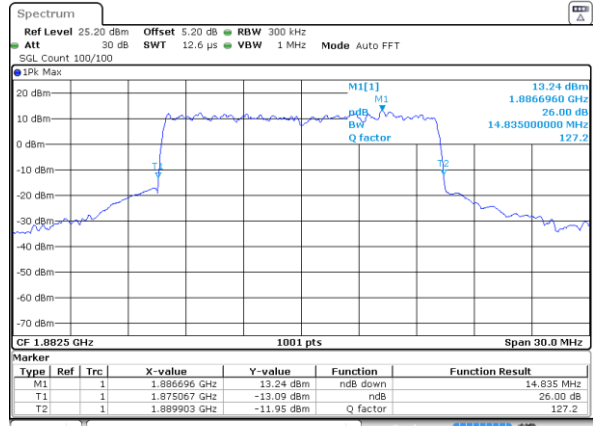
FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



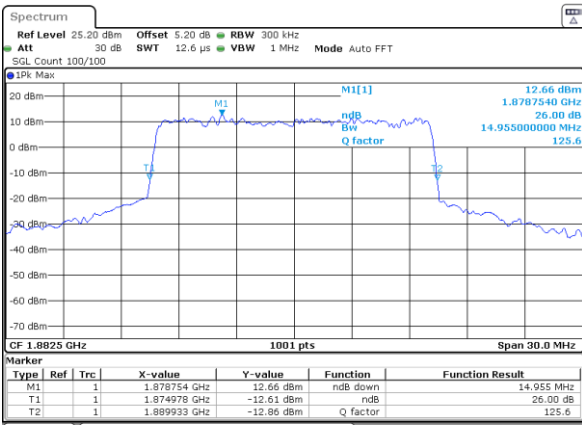
Date: 22 JUN 2022 06:48:36

16QAM



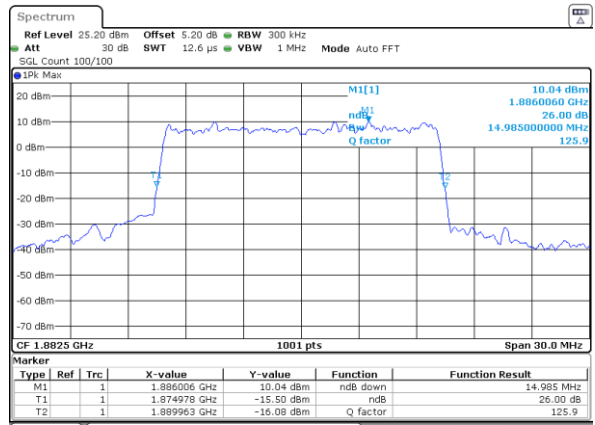
Date: 22 JUN 2022 06:49:06

64QAM



Date: 22 JUN 2022 06:49:32

256QAM

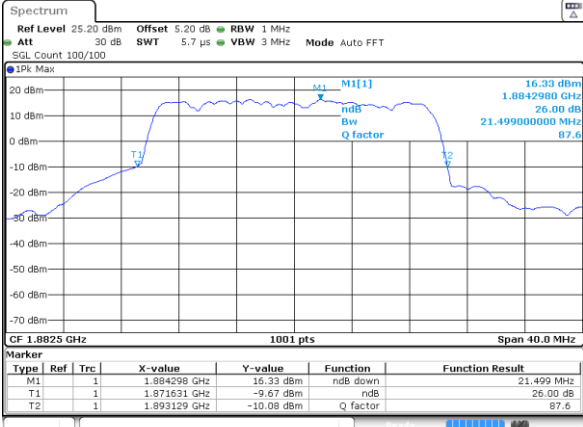


Date: 22 JUN 2022 06:50:13



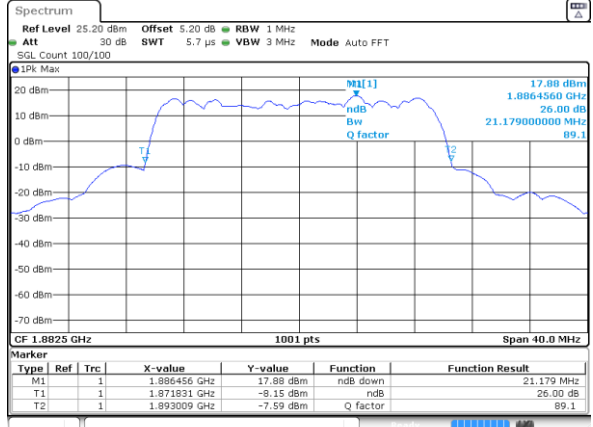
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

QPSK



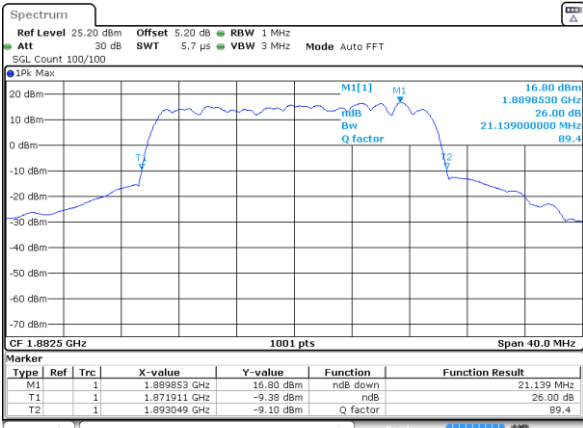
Date: 22 JUN 2022 07:09:47

16QAM



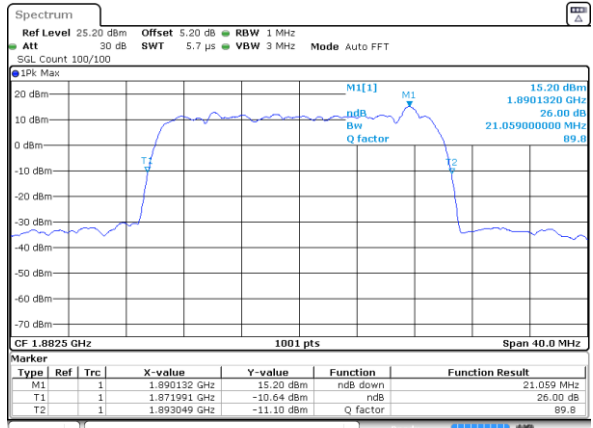
Date: 22 JUN 2022 07:10:19

64QAM



Date: 22 JUN 2022 07:12:05

256QAM

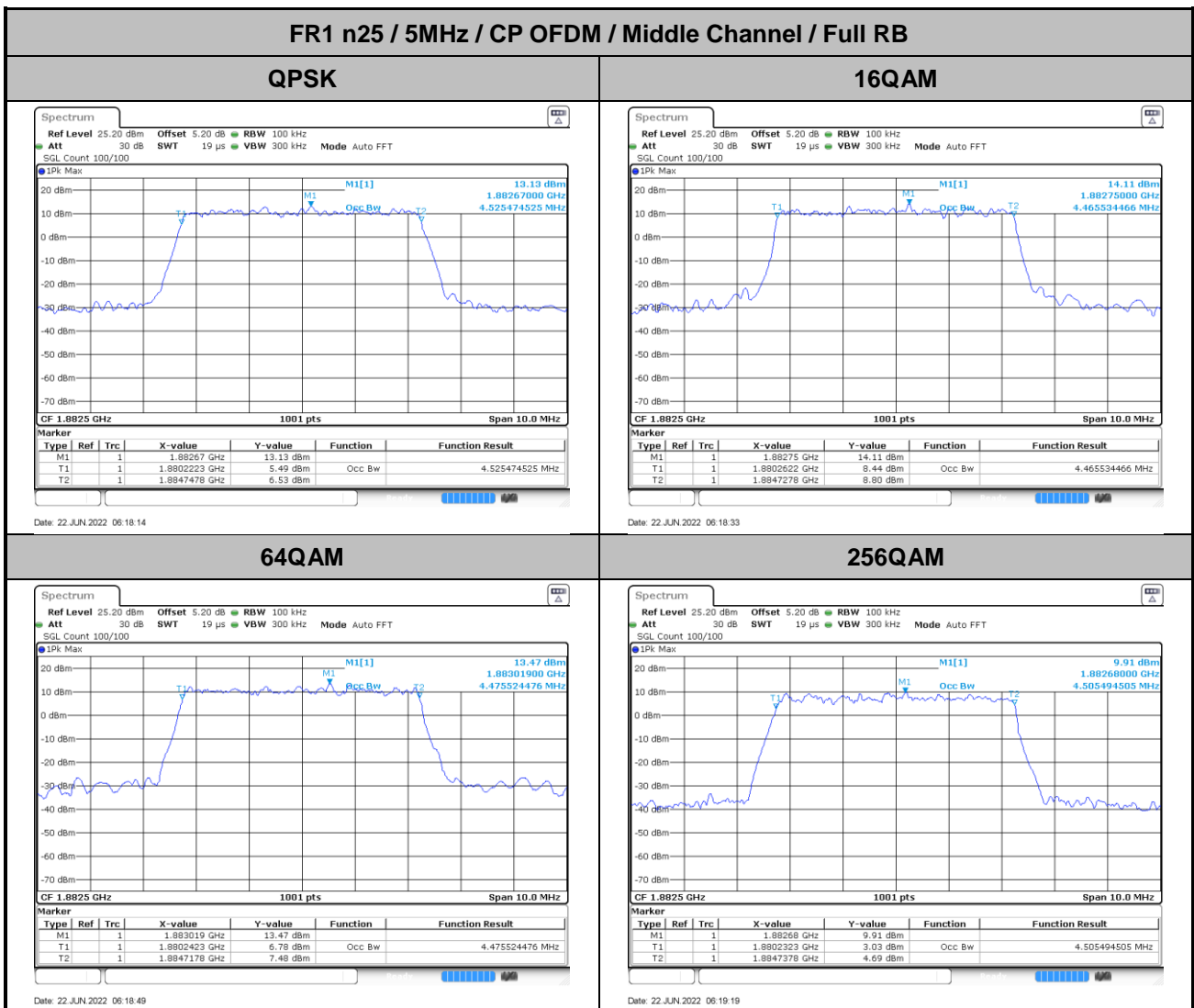


Date: 22 JUN 2022 07:12:25



Occupied Bandwidth

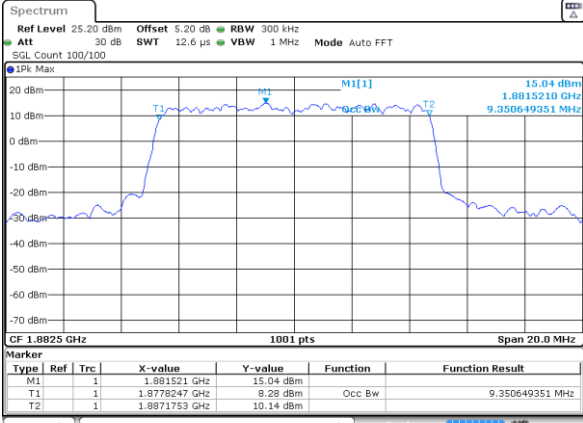
| Mode | FR1 n25 : OBW (MHz) / DFT OFDM | | | | | | | |
|-----------|--------------------------------|--------|-------|--------|-------|--------|-------|--------|
| | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| BW | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 4.53 | 4.47 | 9.35 | 9.35 | 14.18 | 14.15 | 19.26 | 19.34 |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 4.48 | 4.51 | 9.39 | 9.37 | 14.15 | 14.21 | 19.22 | 19.42 |





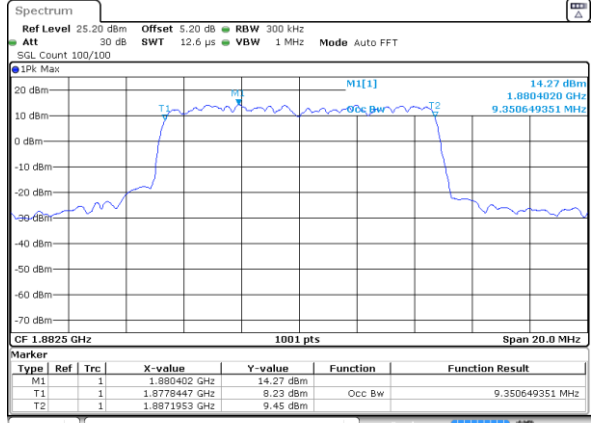
FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



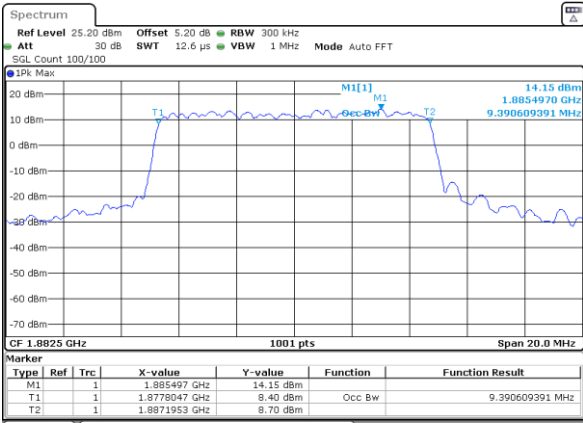
Date: 22 JUN 2022 06:35:31

16QAM



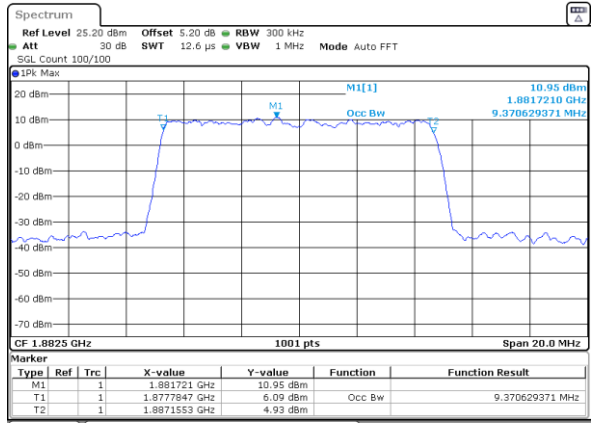
Date: 22 JUN 2022 06:37:17

64QAM



Date: 22 JUN 2022 06:37:37

256QAM

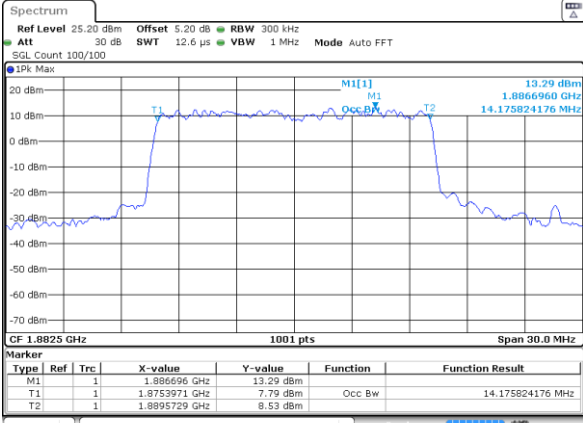


Date: 22 JUN 2022 06:38:44



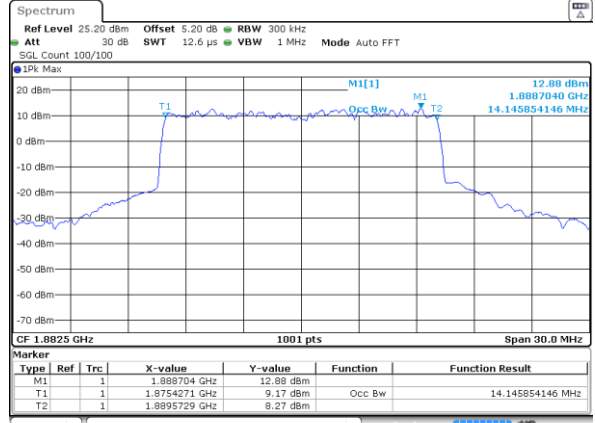
FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



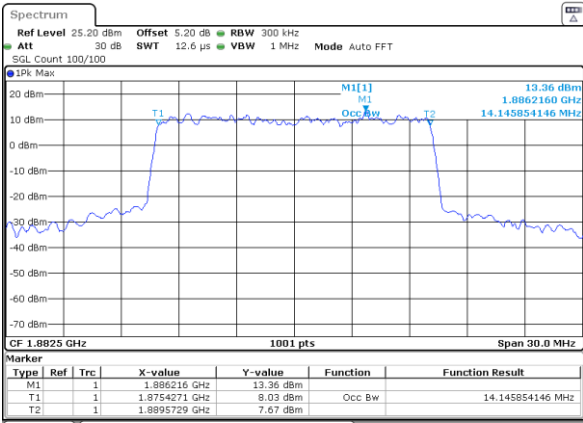
Date: 22 JUN 2022 06:48:28

16QAM



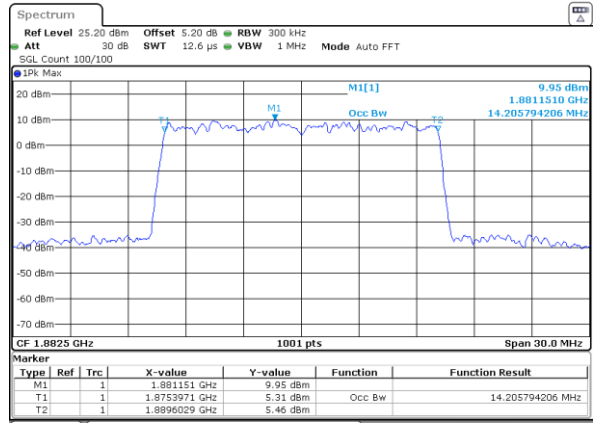
Date: 22 JUN 2022 06:48:57

64QAM



Date: 22 JUN 2022 06:49:20

256QAM

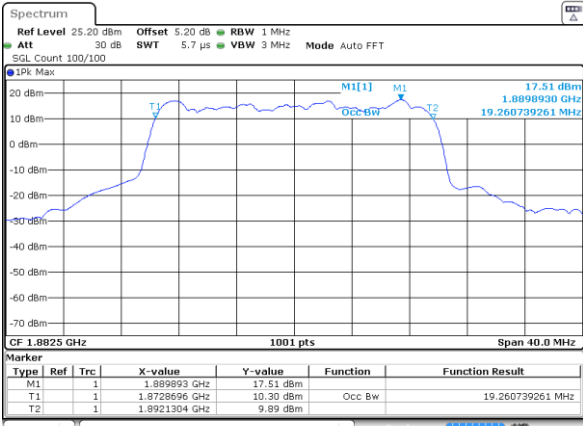


Date: 22 JUN 2022 06:50:01



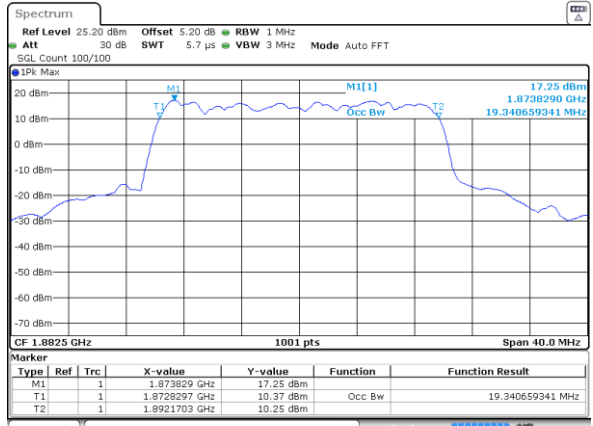
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

QPSK



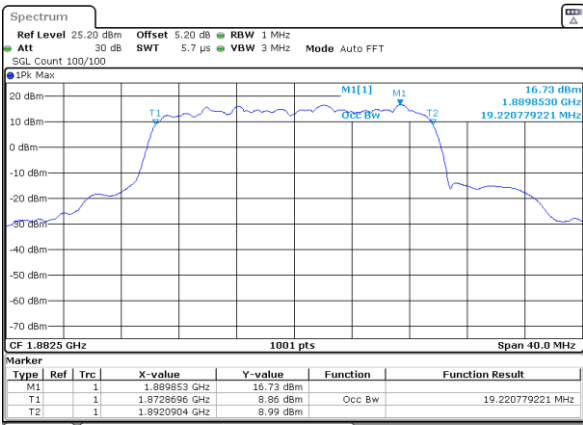
Date: 22 JUN 2022 07:08:05

16QAM



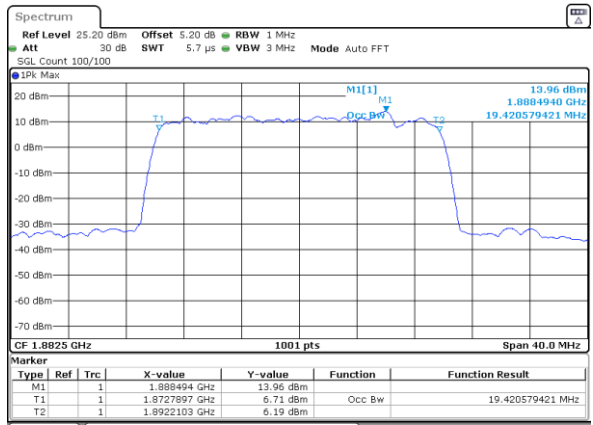
Date: 22 JUN 2022 07:10:05

64QAM



Date: 22 JUN 2022 07:11:54

256QAM



Date: 22 JUN 2022 07:12:17

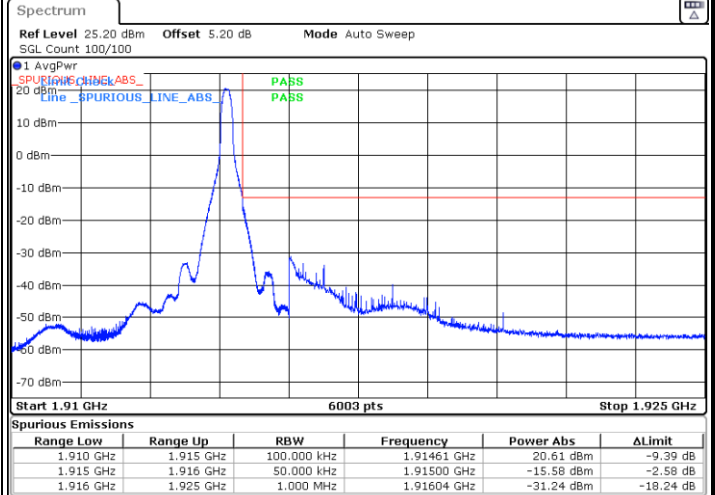
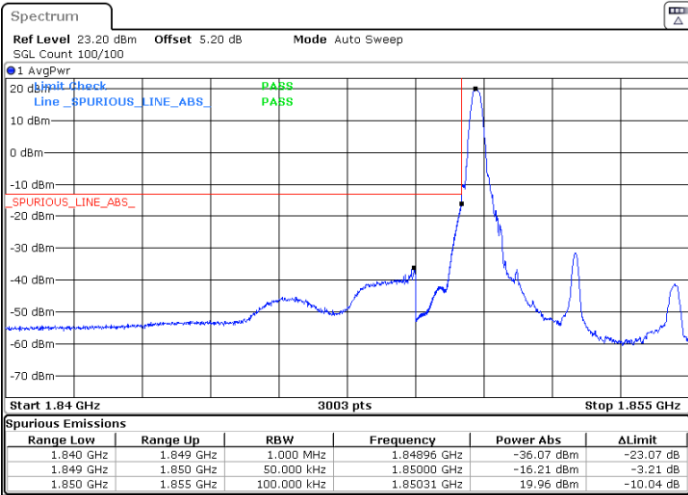


Conducted Band Edge

FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

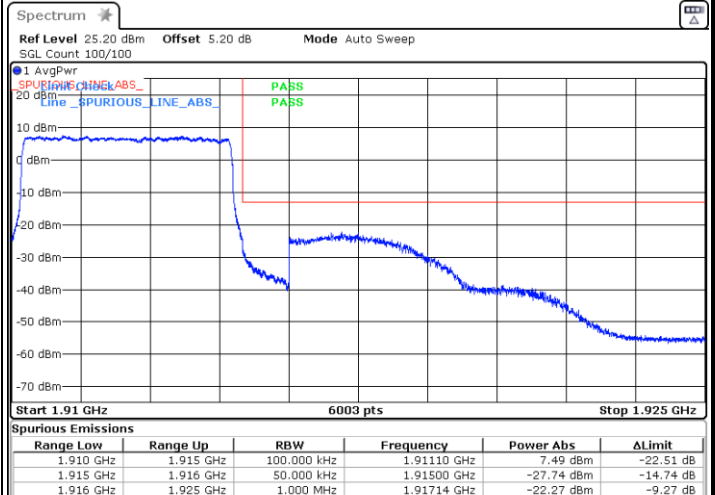
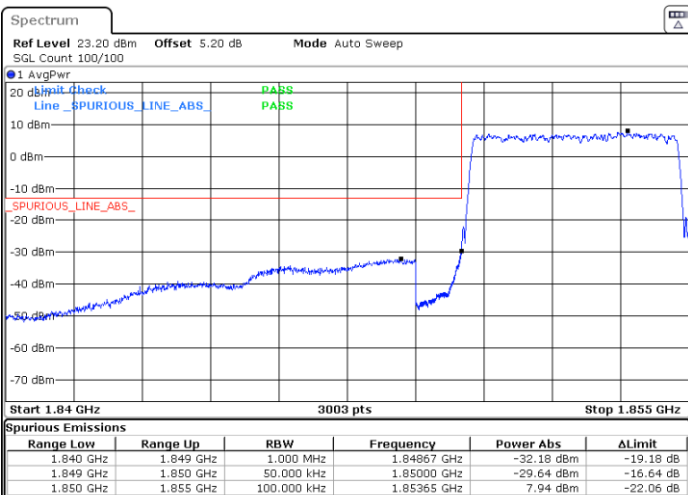


Date: 22 JUN 2022 06:08:47

Date: 22 JUN 2022 06:23:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 06:09:20

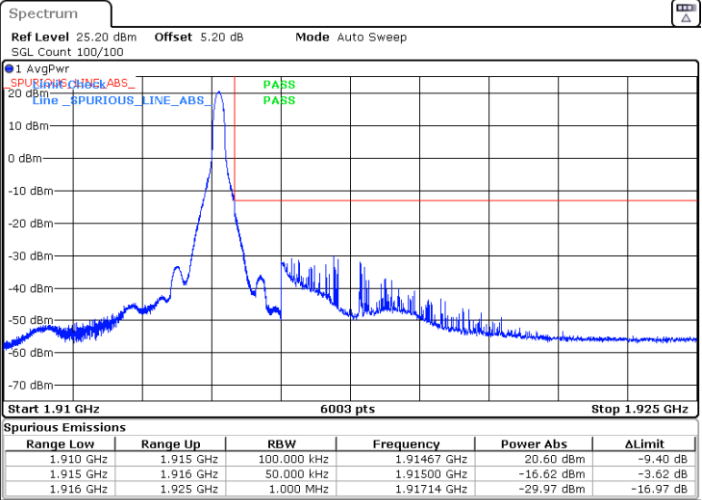
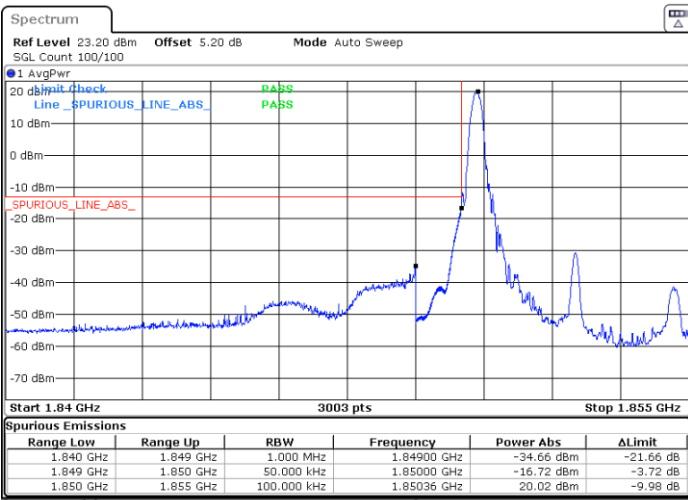
Date: 22 JUN 2022 06:21:27



FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

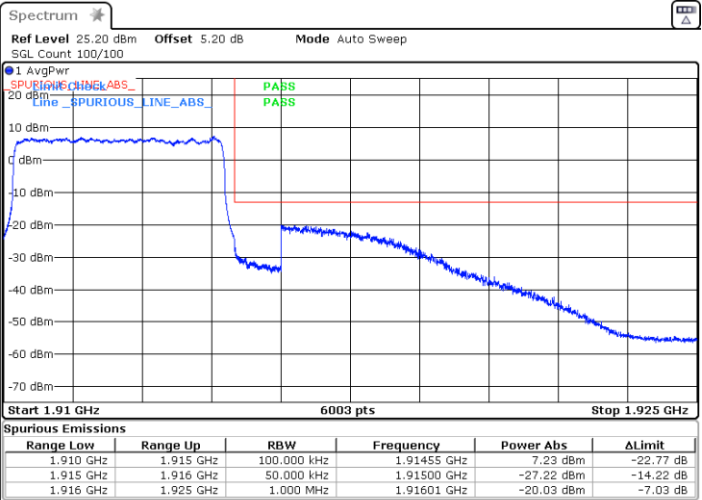
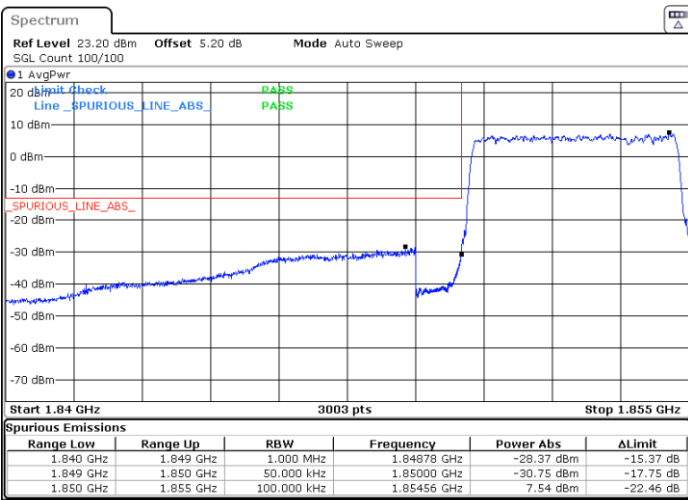


Date: 22 JUN 2022 06:08:13

Date: 22 JUN 2022 06:23:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 06:09:41

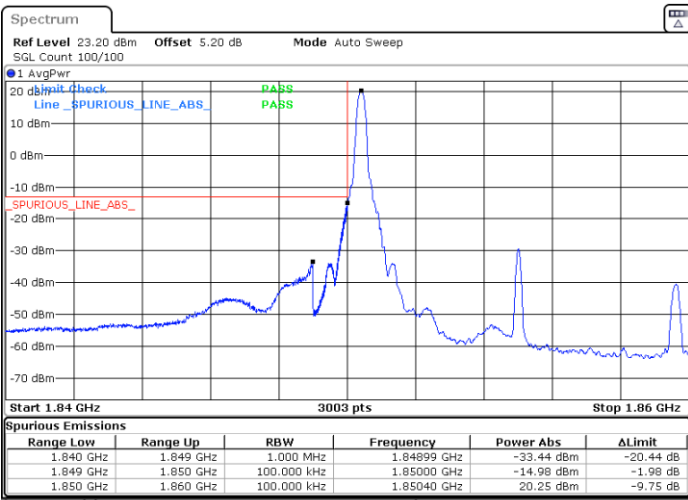
Date: 22 JUN 2022 06:22:46



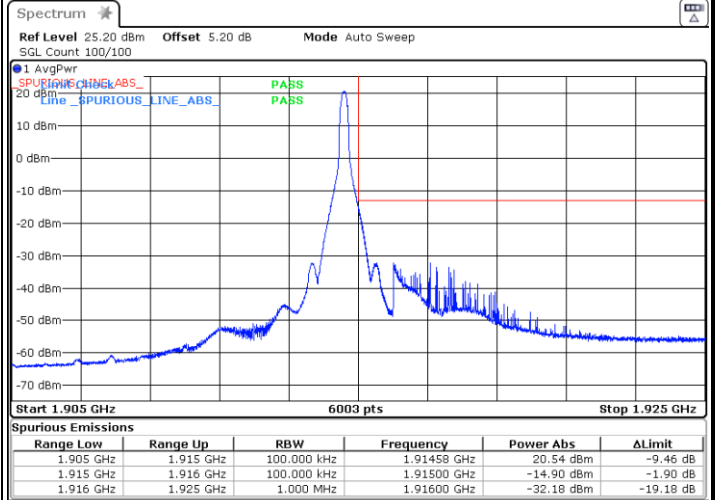
FR1 n25 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



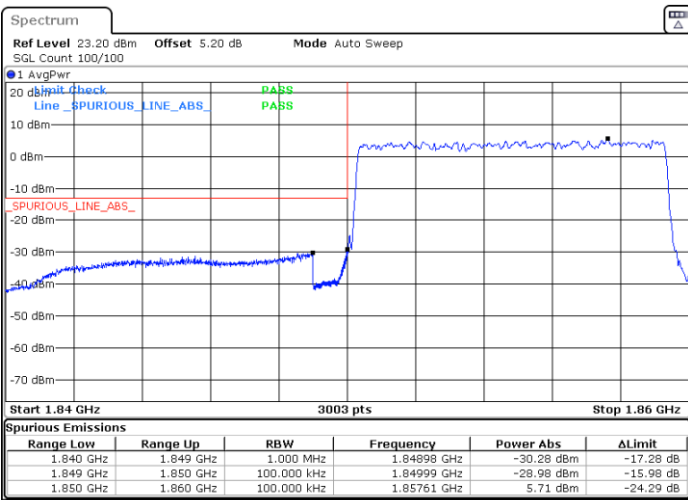
Date: 22 JUN 2022 06:27:41



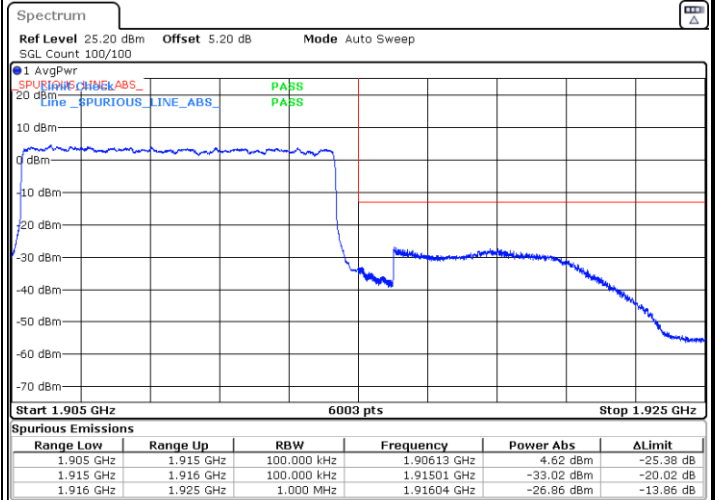
Date: 22 JUN 2022 06:44:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 06:28:35



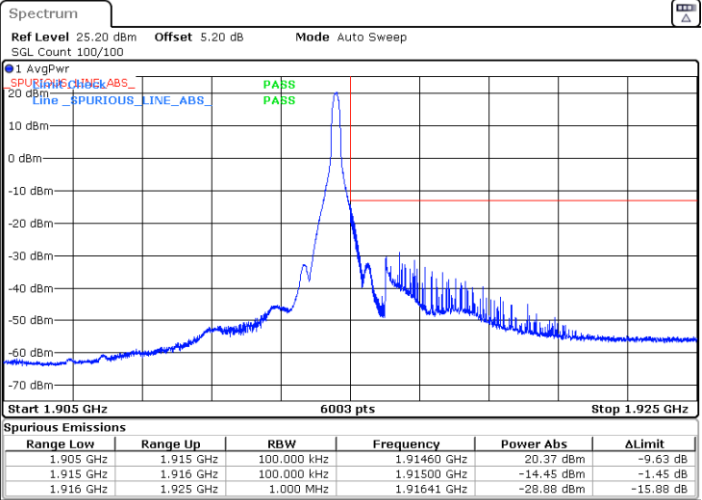
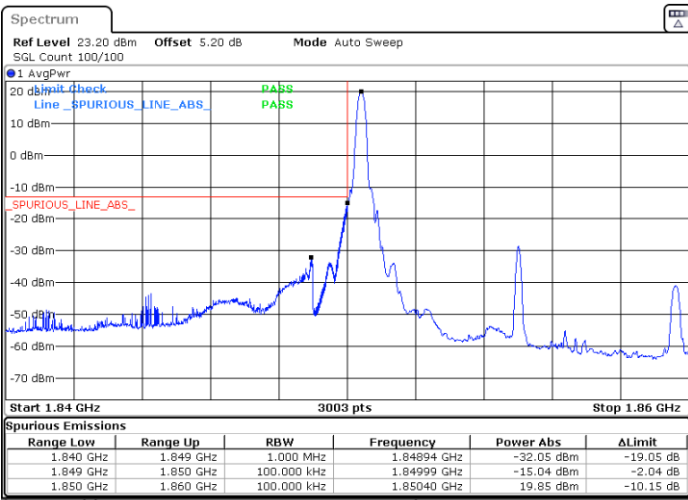
Date: 22 JUN 2022 06:42:00



FR1 n25 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

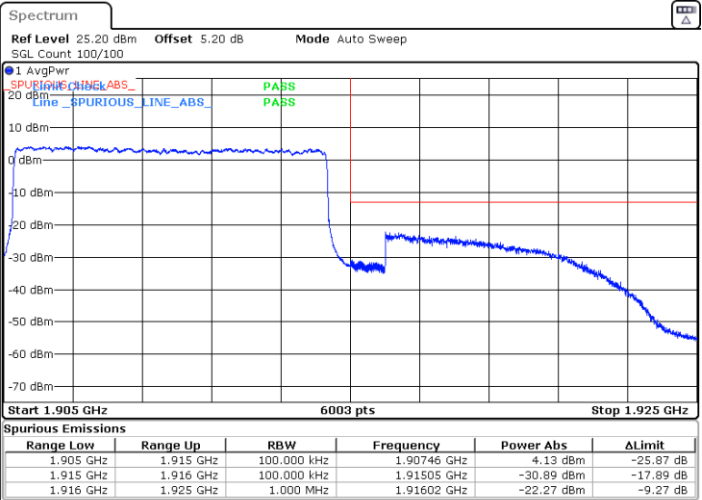
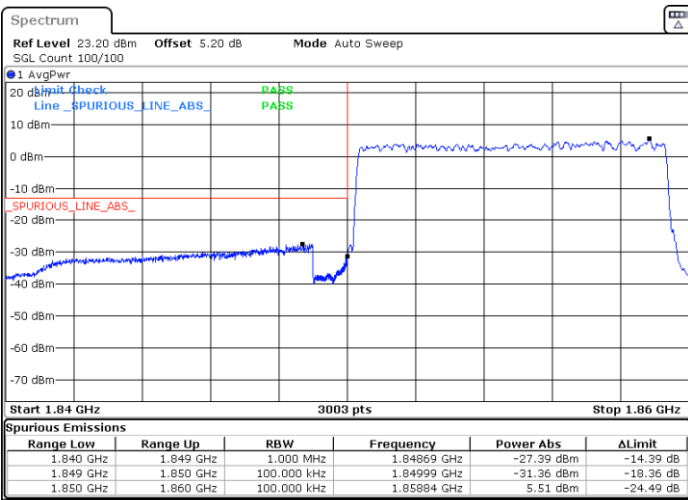


Date: 22 JUN 2022 06:27:58

Date: 22 JUN 2022 06:43:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 06:28:18

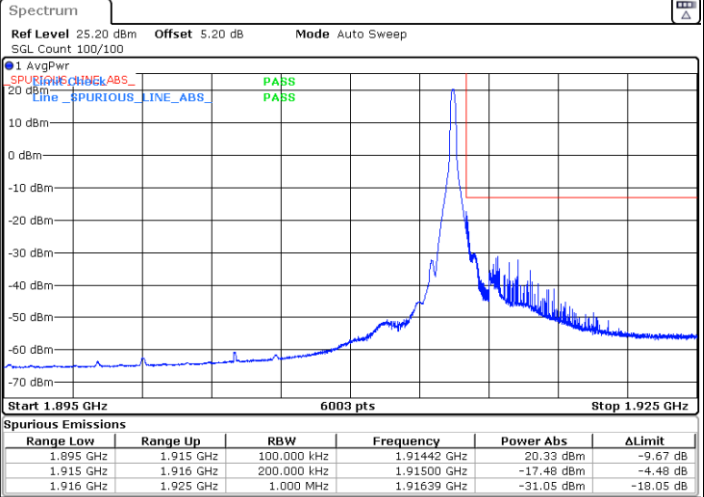
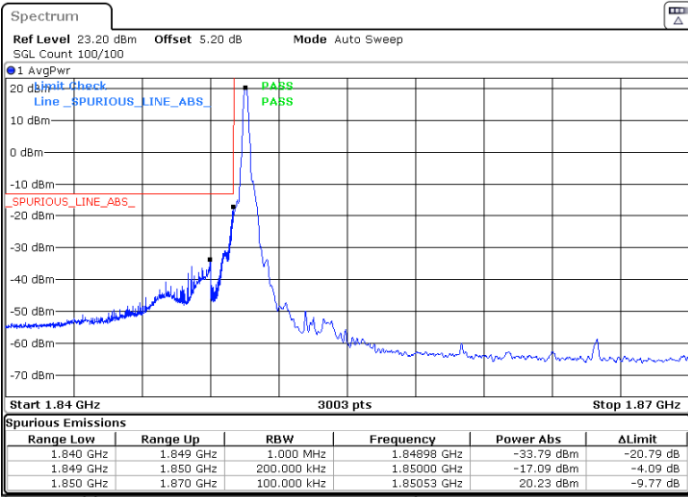
Date: 22 JUN 2022 06:42:38



FR1 n25 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

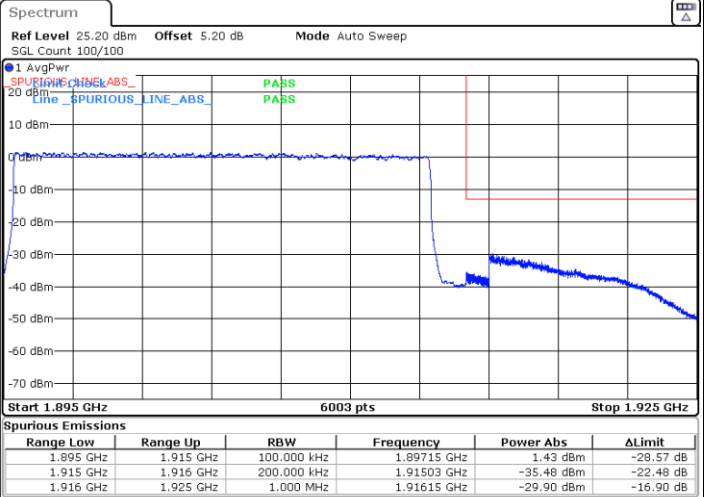
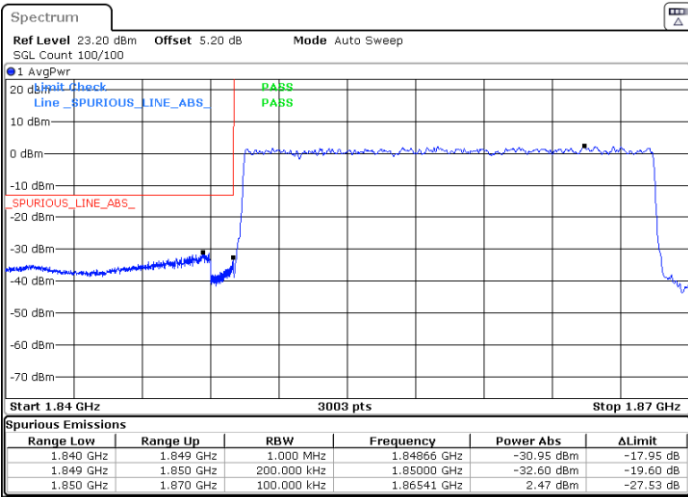


Date: 22 JUN 2022 06:51:36

Date: 22 JUN 2022 07:19:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 06:53:20

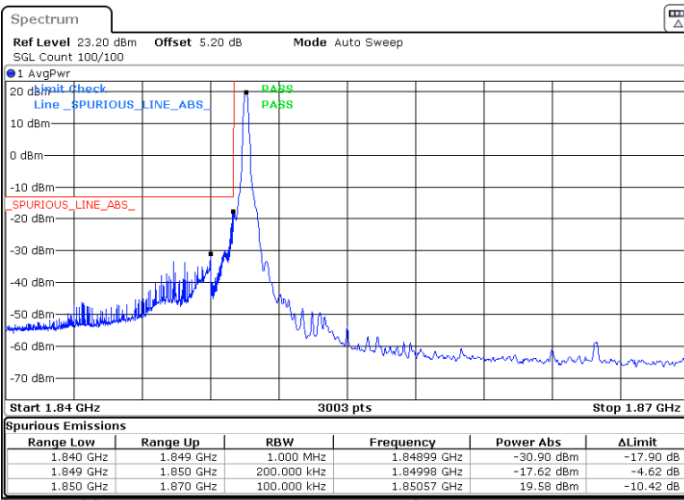
Date: 22 JUN 2022 07:14:46



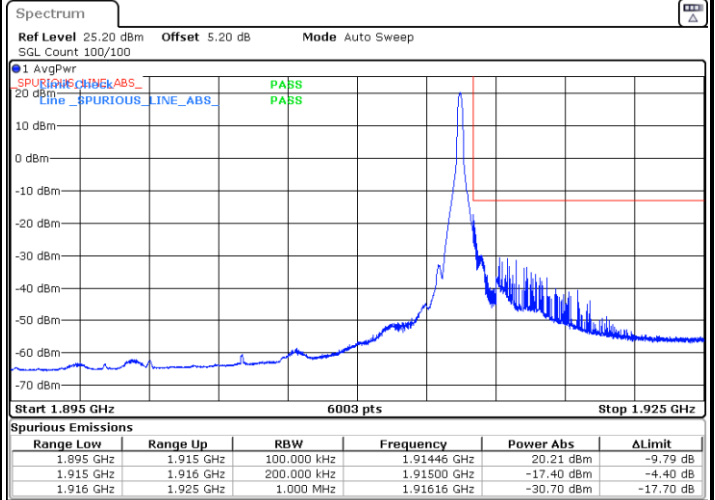
FR1 n25 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



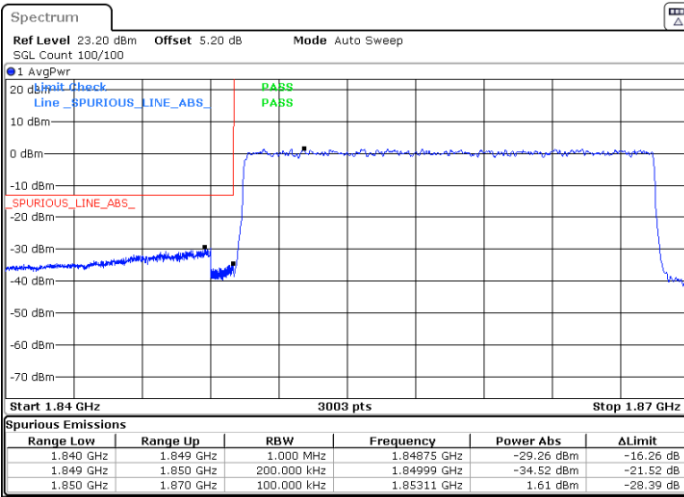
Date: 22 JUN 2022 06:52:22



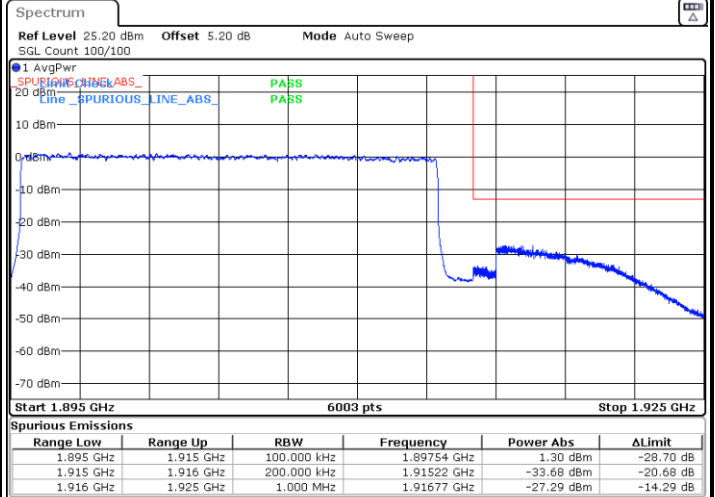
Date: 22 JUN 2022 07:17:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 JUN 2022 06:53:05



Date: 22 JUN 2022 07:15:45

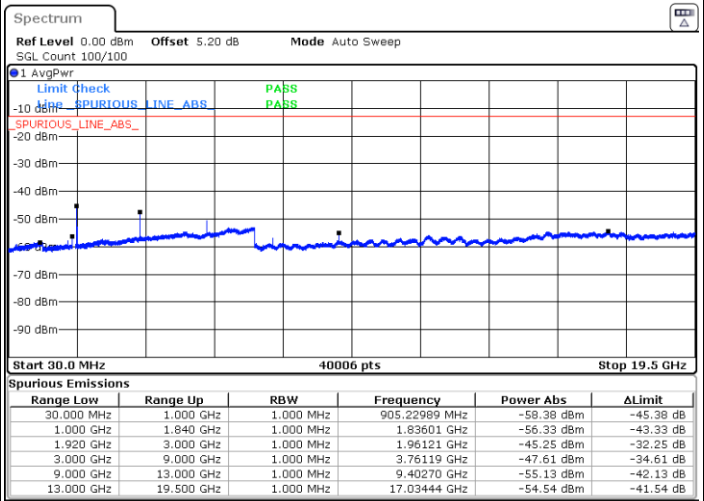
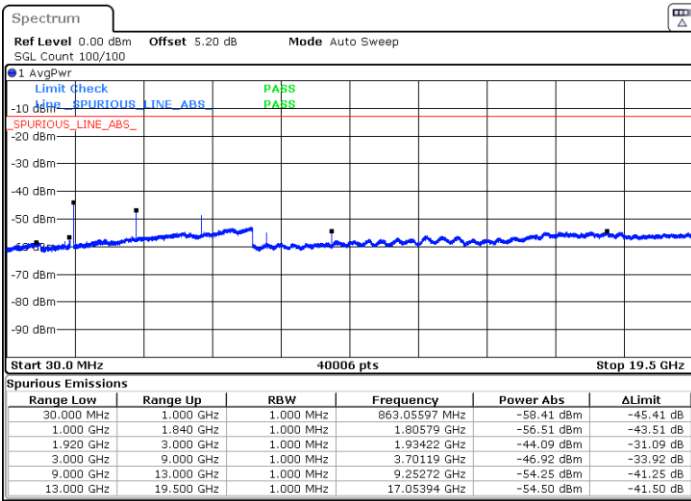


Conducted Spurious Emission

FR1 n25 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

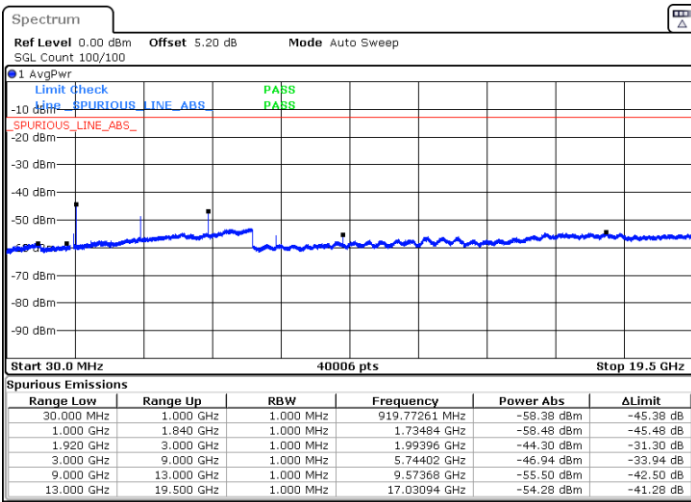
Middle Channel / 1RB1



Date: 22 JUN 2022 06:12:12

Date: 22 JUN 2022 06:13:46

Highest Channel / 1RB1



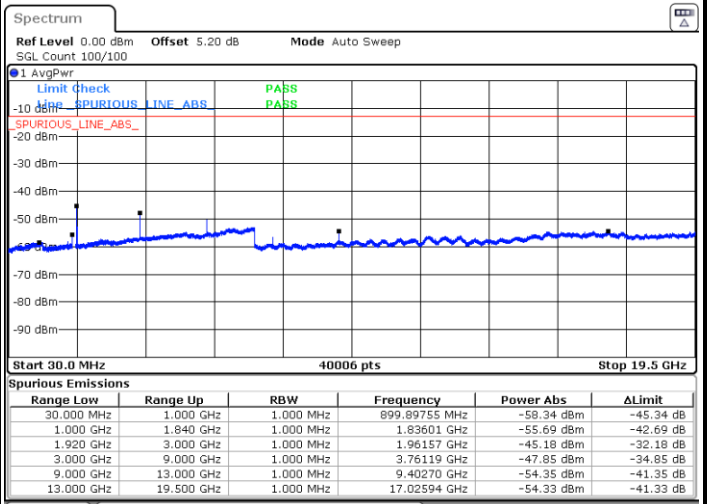
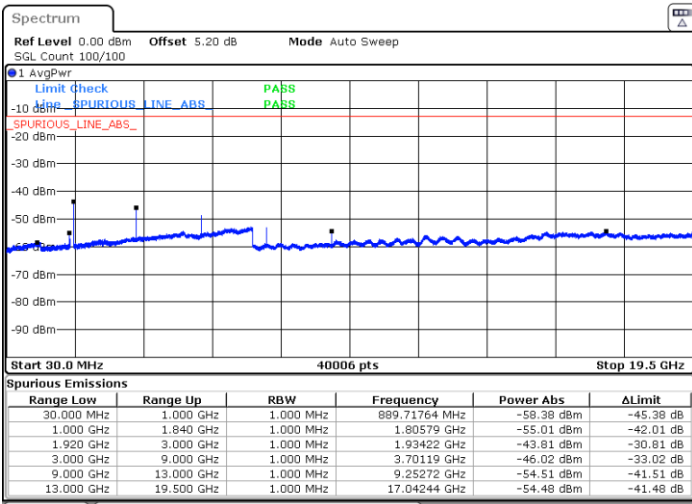
Date: 22 JUN 2022 06:24:41



FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

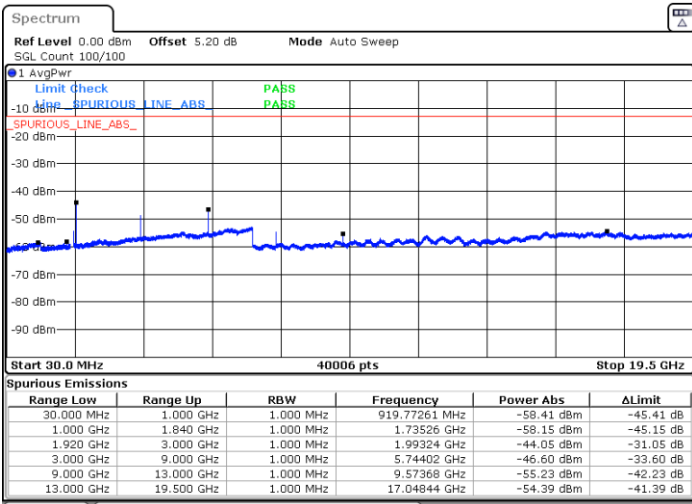
Middle Channel / 1RB1



Date: 22 JUN 2022 06:11:02

Date: 22 JUN 2022 06:15:30

Highest Channel / 1RB1



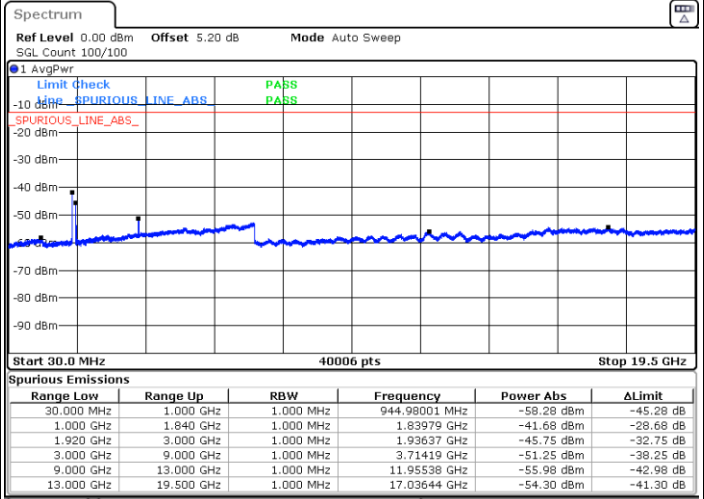
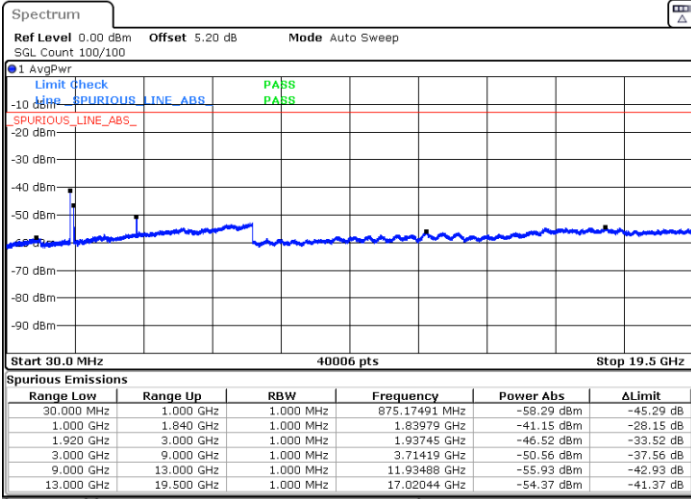
Date: 22 JUN 2022 06:26:06



FR1 n25 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

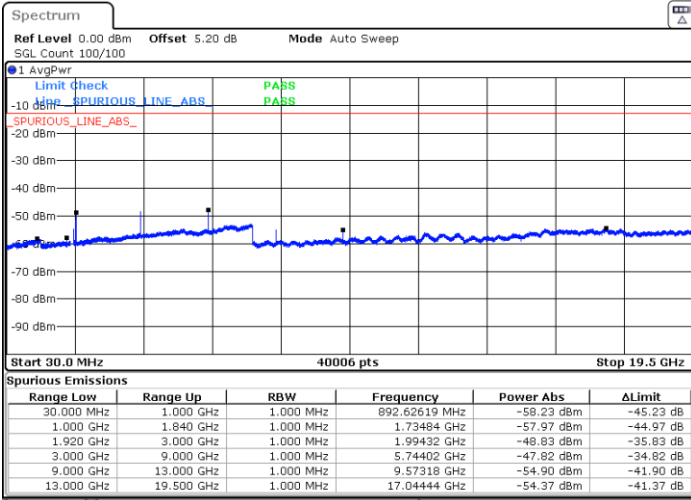
Middle Channel / 1RB1



Date: 22 JUN 2022 06:29:24

Date: 22 JUN 2022 06:33:44

Highest Channel / 1RB1



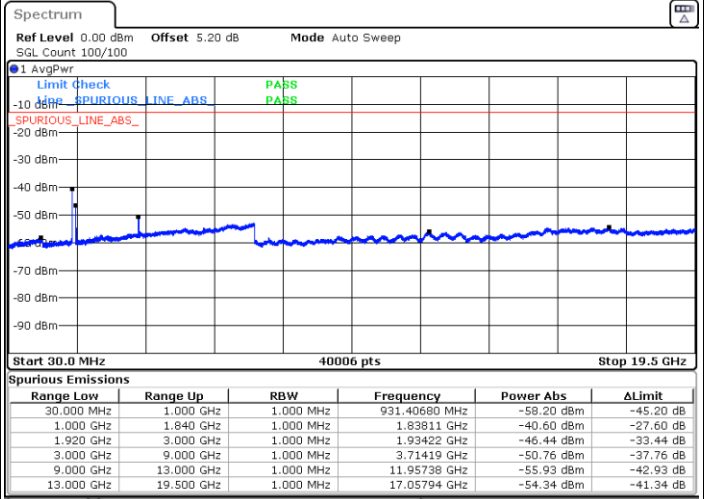
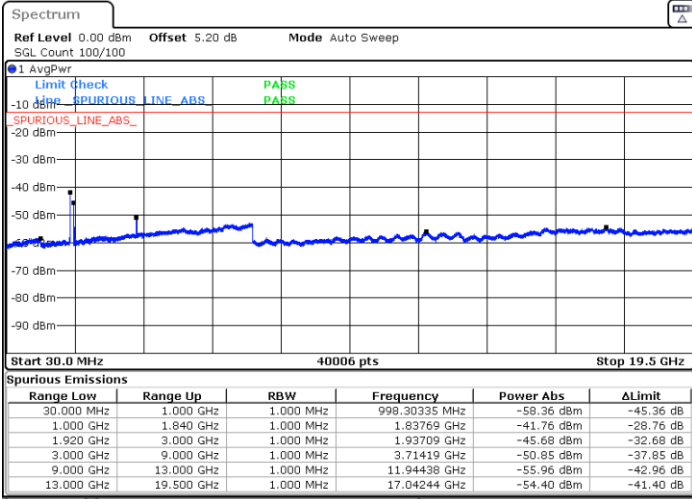
Date: 22 JUN 2022 06:45:42



FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

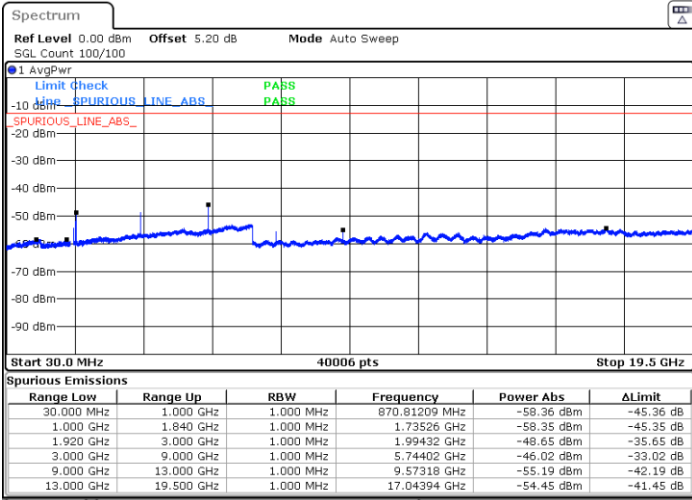
Middle Channel / 1RB1



Date: 22 JUN 2022 06:30:16

Date: 22 JUN 2022 06:32:14

Highest Channel / 1RB1



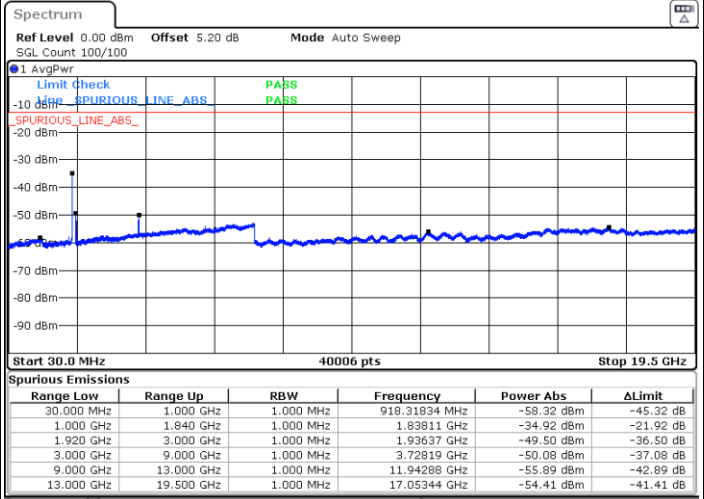
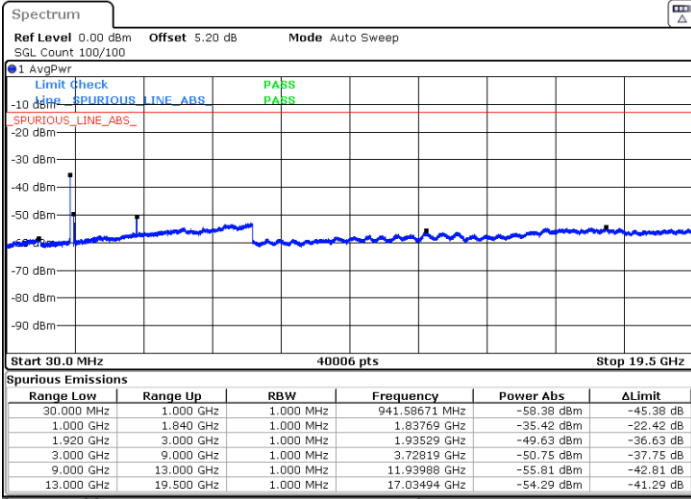
Date: 22 JUN 2022 06:47:11



FR1 n25 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

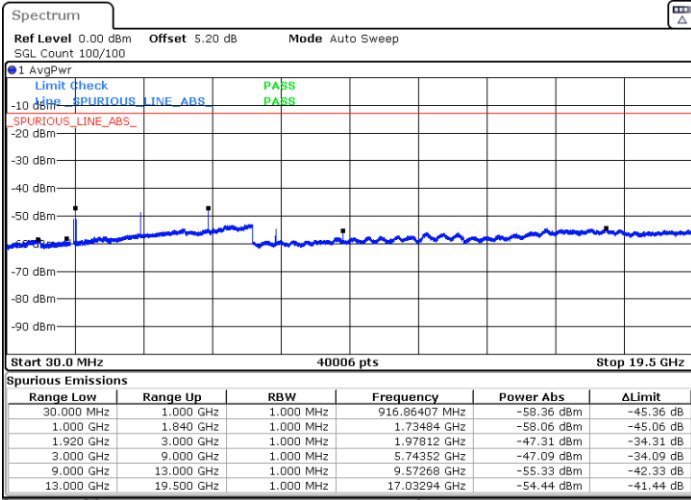
Middle Channel / 1RB1



Date: 22 JUN 2022 06:57:00

Date: 22 JUN 2022 07:06:42

Highest Channel / 1RB1



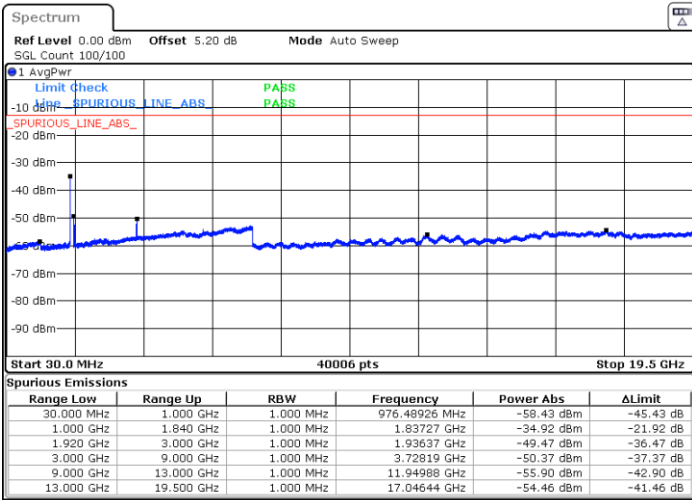
Date: 22 JUN 2022 07:20:21



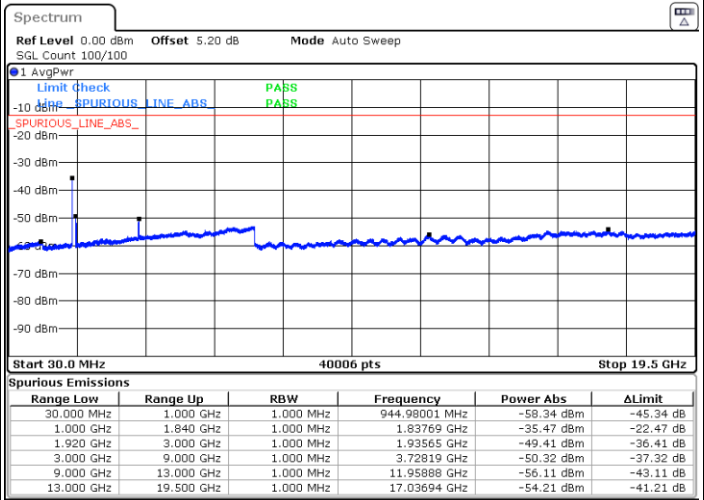
FR1 n25 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

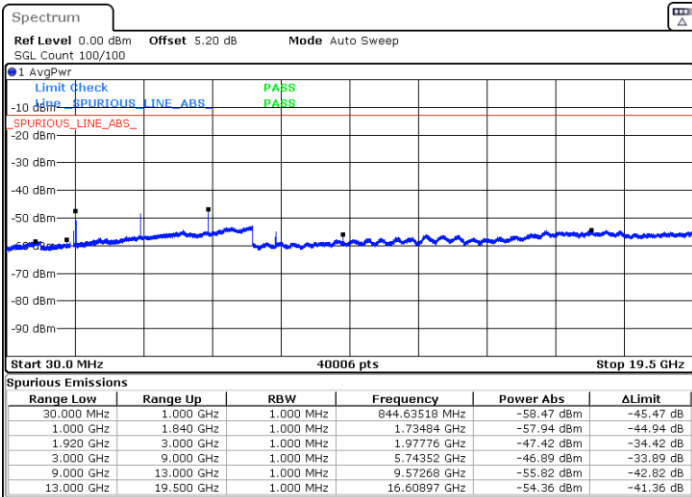


Date: 22 JUN 2022 07:05:45



Date: 22 JUN 2022 07:02:49

Highest Channel / 1RB1



Date: 22 JUN 2022 07:21:50



Frequency Stability

| Test Conditions | | FR1 n25 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 20 | Normal Voltage | 0.0013 | PASS |
| 40 | Normal Voltage | 0.0024 | |
| 30 | Normal Voltage | 0.0045 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0021 | |
| 0 | Normal Voltage | 0.0016 | |
| -10 | Normal Voltage | 0.0048 | |
| -20 | Normal Voltage | 0.0032 | |
| -30 | Normal Voltage | 0.0016 | |
| 20 | Maximum Voltage | 0.0015 | |
| 20 | Normal Voltage | 0.0020 | |
| 20 | Battery End Point | 0.0016 | |

Note:

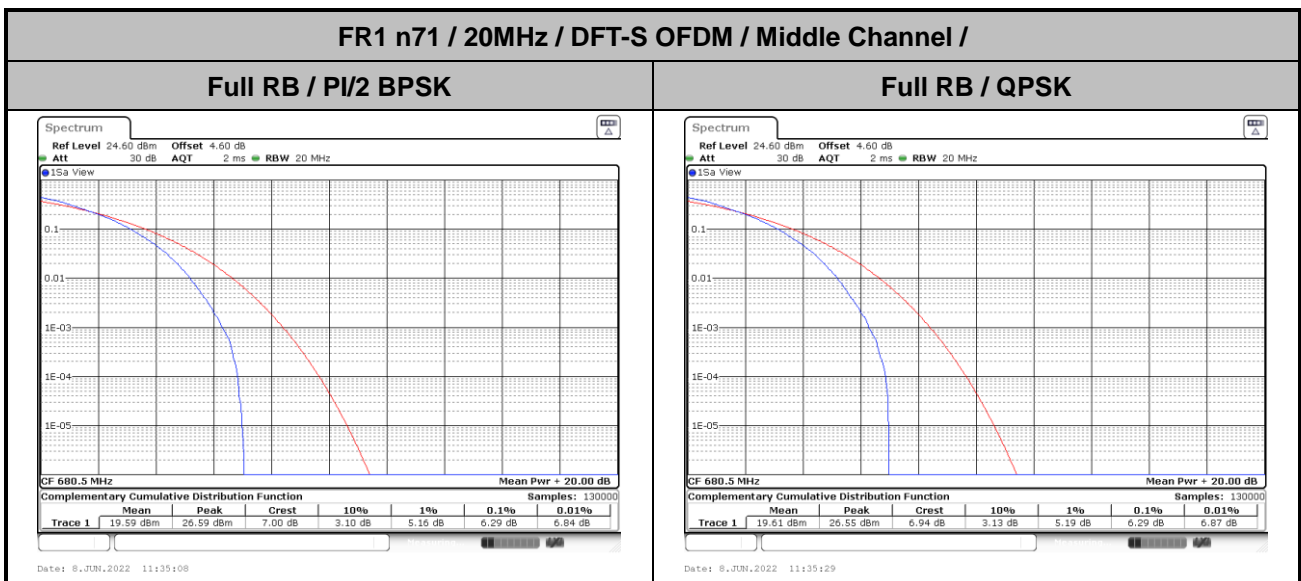
1. Normal Voltage =3.87V. ; Battery End Point (BEP) =3. 55V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n71

Peak-to-Average Ratio

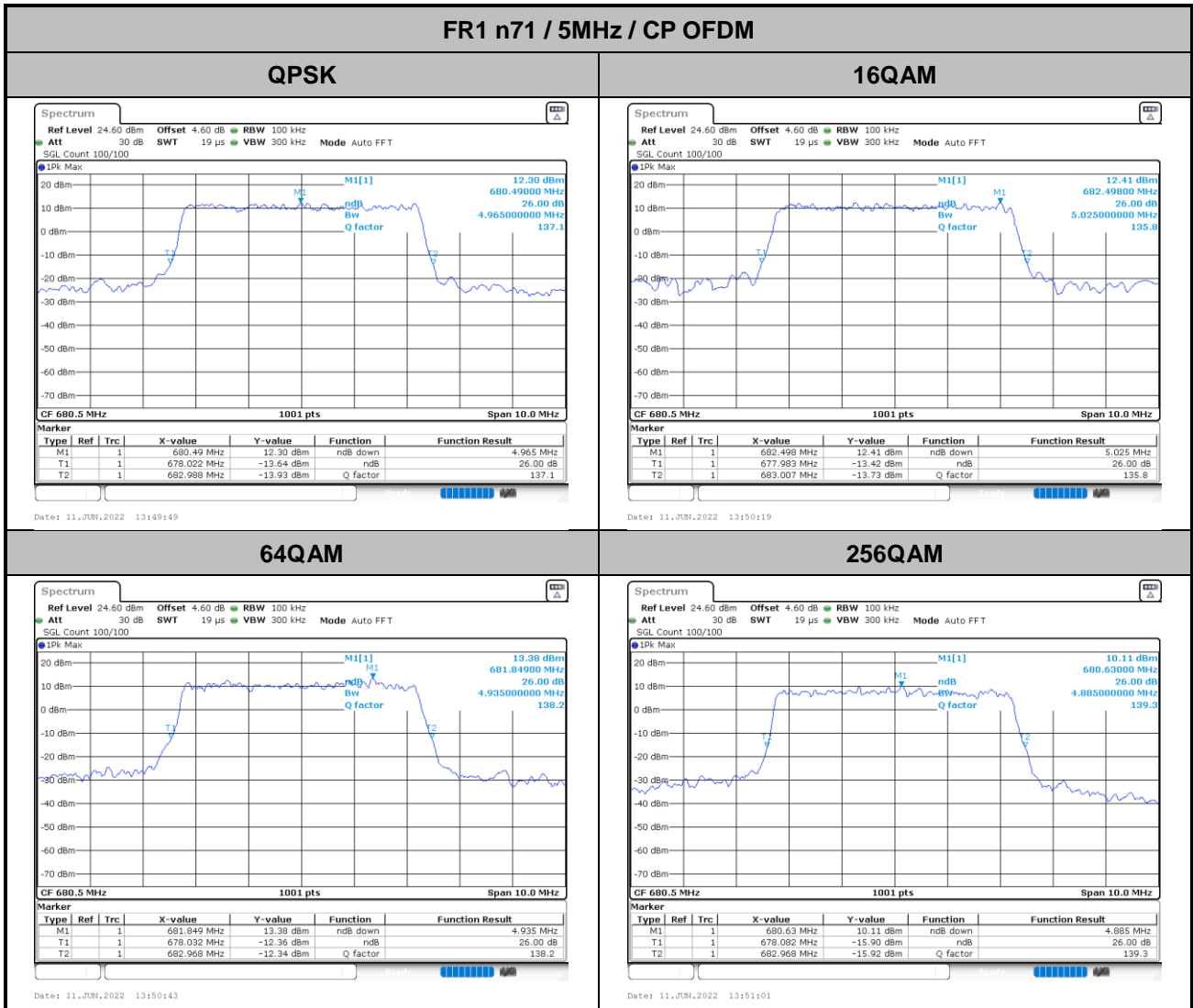
| | | | |
|-----------|------------------------------|------|-------------|
| Mode | FR1 n71 / 20MHz / DFT-S OFDM | | |
| Mod. | PI/2 BPSK | QPSK | Limit: 13dB |
| RB Size | Full RB | | Result |
| Middle CH | 6.29 | 6.29 | |





26dB Bandwidth

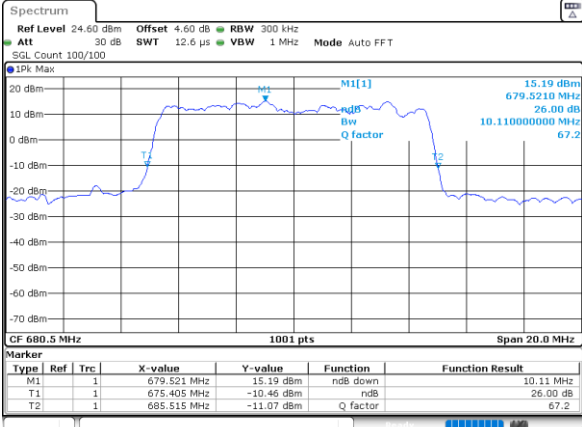
| Mode | FR1 n71 : 26dBW (MHz) / CP OFDM | | | | | | | | | |
|-----------|---------------------------------|-------|-------|--------|--|-------|-------|-------|--------|--|
| BW | 5M | | | | | 10M | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | QPSK | 16QAM | 64QAM | 256QAM | |
| Middle CH | 4.97 | 5.03 | 4.94 | 4.89 | | 10.11 | 10.21 | 10.19 | 10.09 | |
| BW | 15M | | | | | 20M | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | QPSK | 16QAM | 64QAM | 256QAM | |
| Middle CH | 15.11 | 14.90 | 14.99 | 14.93 | | 21.26 | 21.22 | 21.06 | 21.14 | |





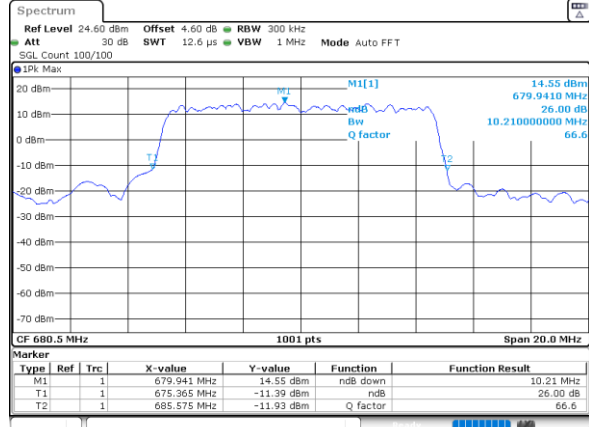
FR1 n71 / 10MHz / CP OFDM

QPSK



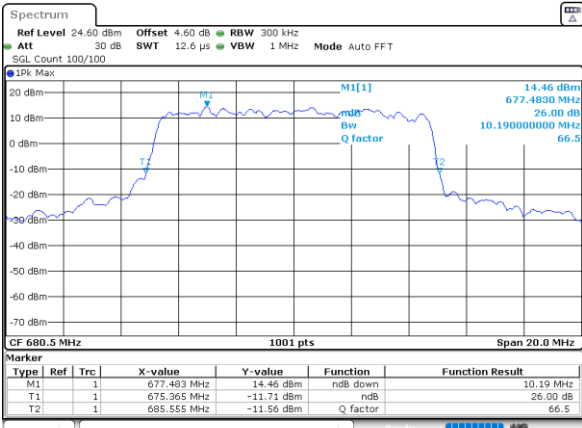
Date: 11 JUN 2022 13:53:00

16QAM



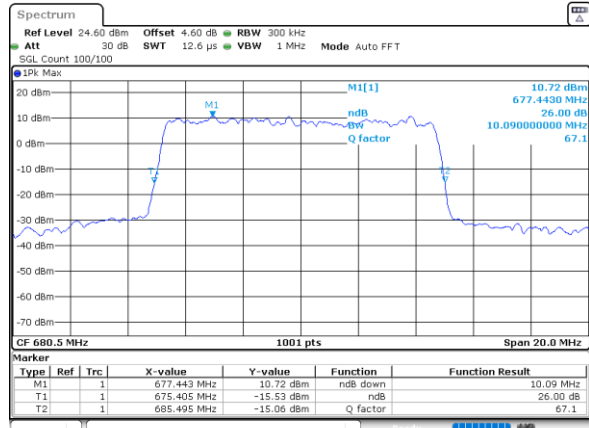
Date: 11 JUN 2022 13:52:44

64QAM



Date: 11 JUN 2022 13:52:30

256QAM

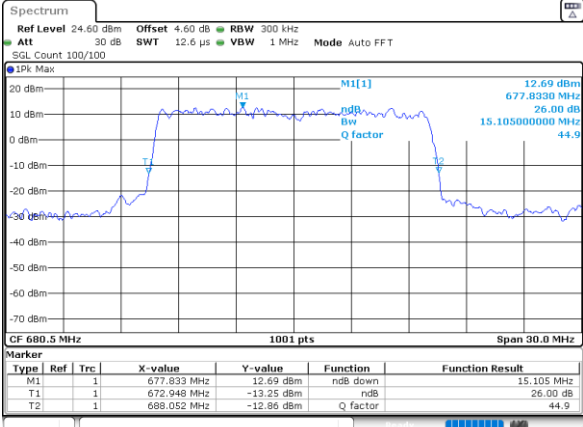


Date: 11 JUN 2022 13:52:11



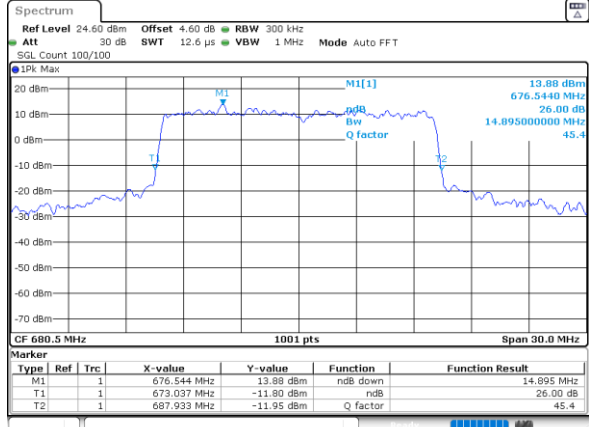
FR1 n71 / 15MHz / CP OFDM

QPSK



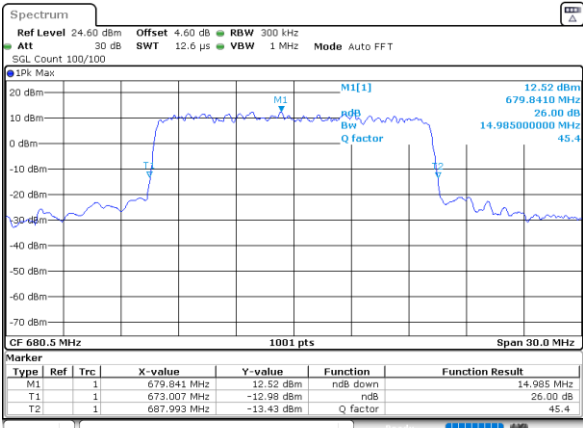
Date: 11 JUN 2022 13:53:16

16QAM



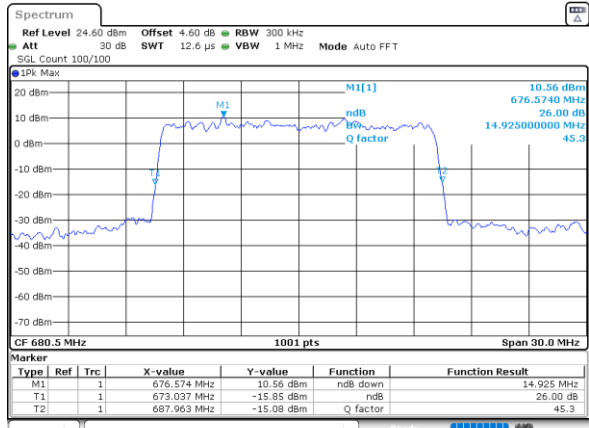
Date: 11 JUN 2022 13:54:20

64QAM



Date: 11 JUN 2022 13:54:38

256QAM

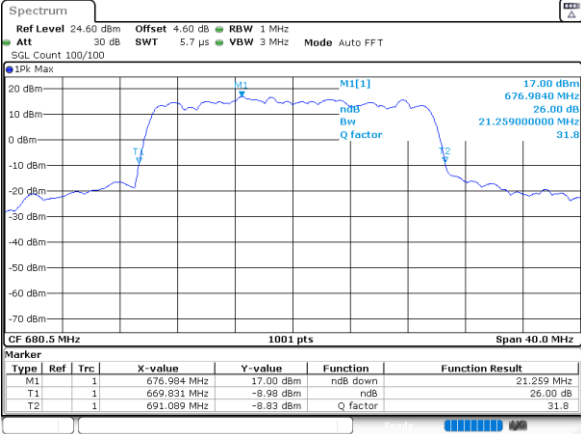


Date: 11 JUN 2022 13:55:02



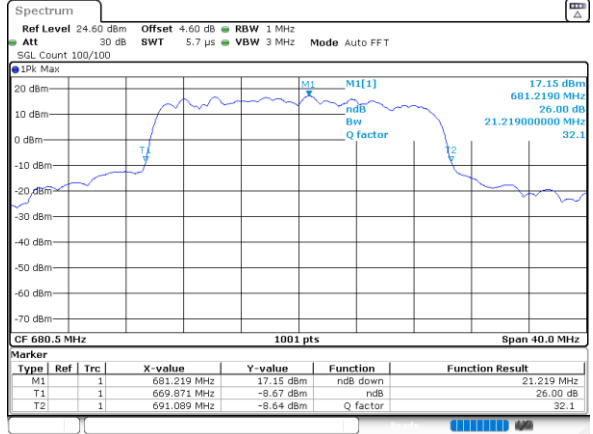
FR1 n71 / 20MHz / CP OFDM

QPSK



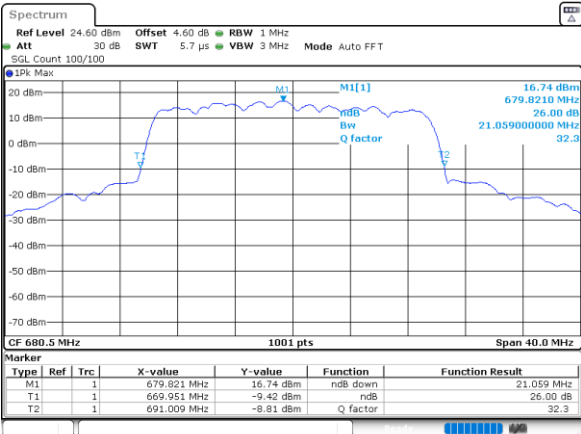
Date: 11 JUN 2022 13:57:01

16QAM



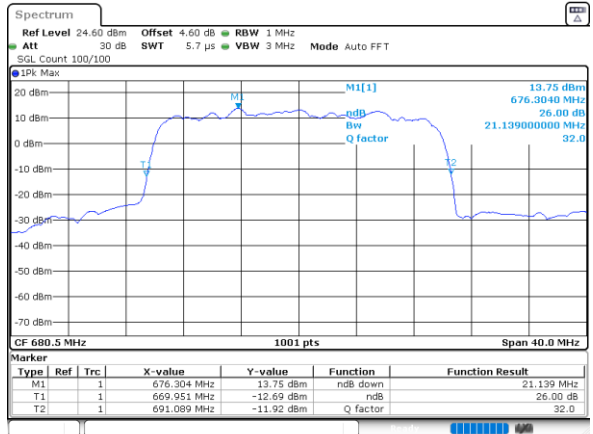
Date: 11 JUN 2022 13:56:25

64QAM



Date: 11 JUN 2022 13:55:50

256QAM

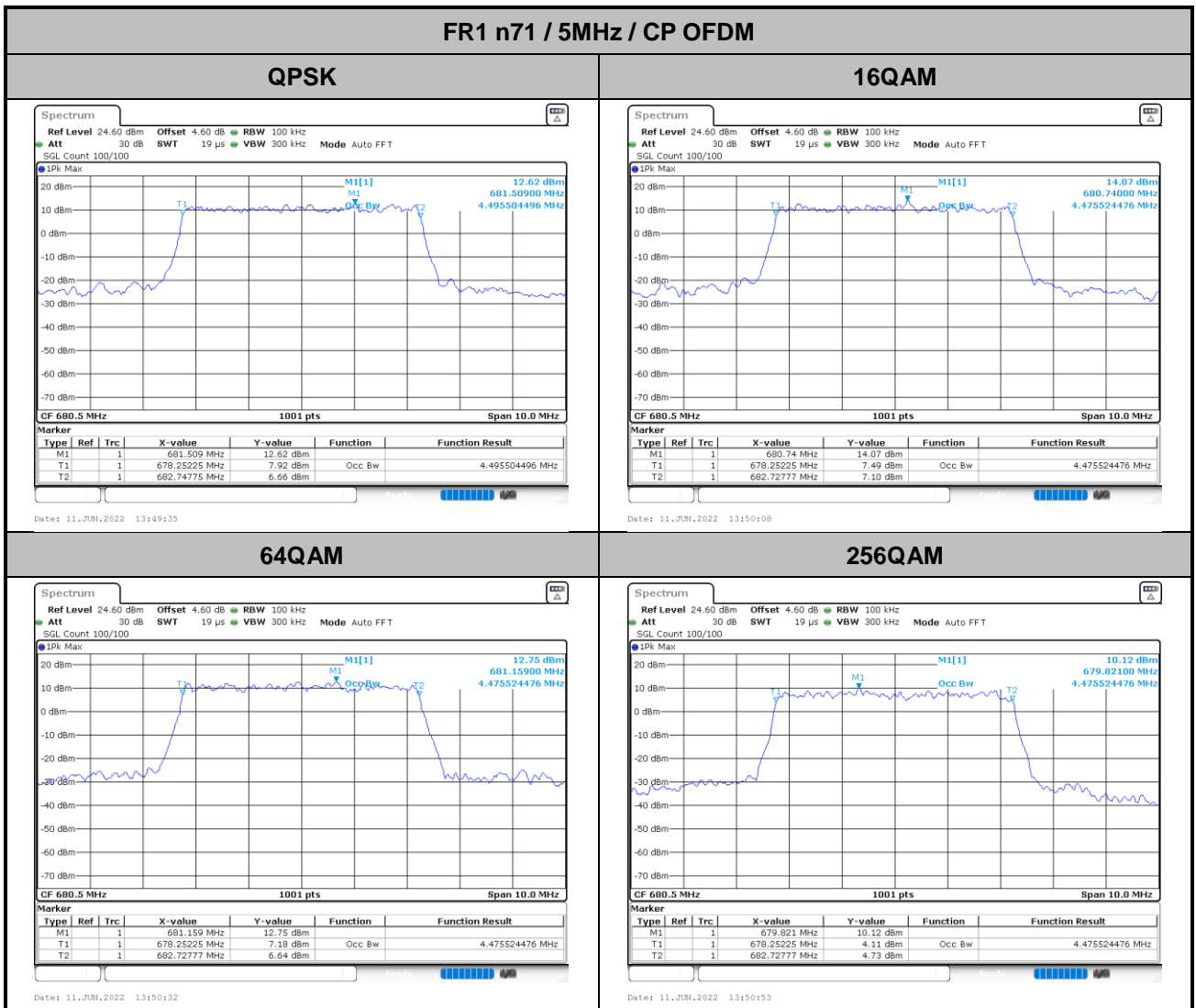


Date: 11 JUN 2022 13:55:28



Occupied Bandwidth

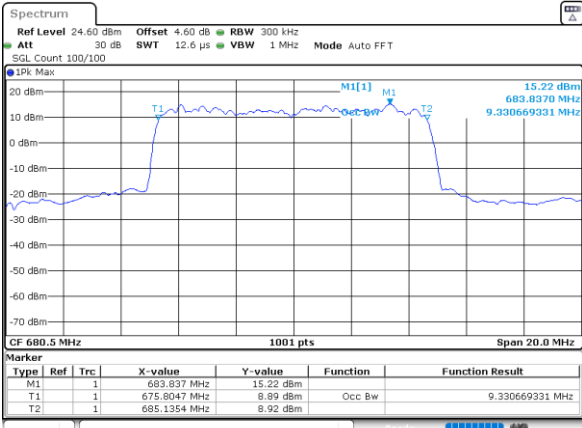
| Mode | FR1 n71 : OB (MHz) / CP OFDM | | | | | | | | | |
|-----------|------------------------------|-------|-------|-------|--------|-----|-------|-------|-------|--------|
| BW | 5M | | | | | 10M | | | | |
| Mod. | | QPSK | 16QAM | 64QAM | 256QAM | | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | | 4.50 | 4.48 | 4.48 | 4.48 | | 9.33 | 9.33 | 9.39 | 9.37 |
| BW | 15M | | | | | 20M | | | | |
| Mod. | | QPSK | 16QAM | 64QAM | 256QAM | | QPSK | 16QAM | 64QAM | 256QAM |
| Middle CH | | 14.09 | 14.06 | 14.12 | 14.06 | | 19.18 | 19.10 | 19.38 | 19.30 |





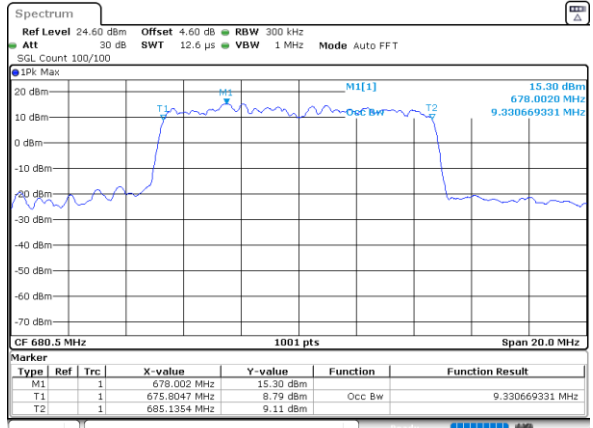
FR1 n71 / 10MHz / CP OFDM

QPSK



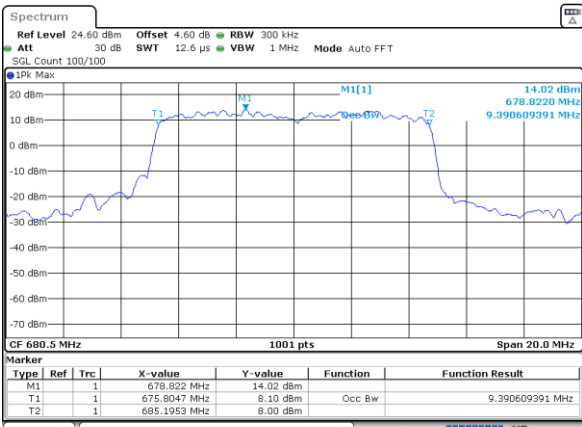
Date: 11 JUN 2022 13:52:55

16QAM



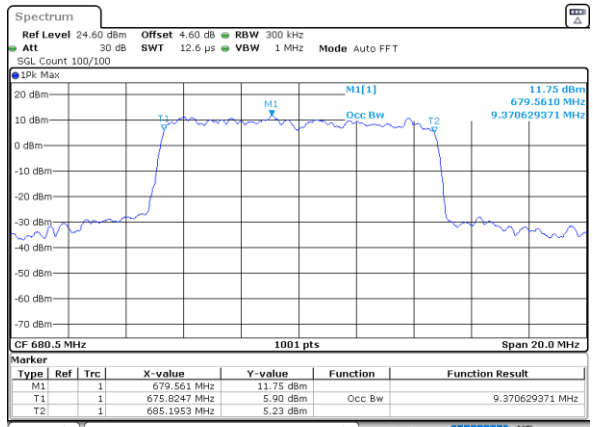
Date: 11 JUN 2022 13:52:37

64QAM



Date: 11 JUN 2022 13:52:22

256QAM

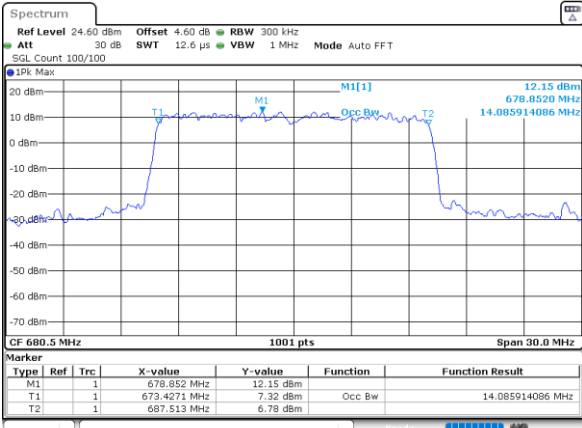


Date: 11 JUN 2022 13:51:24

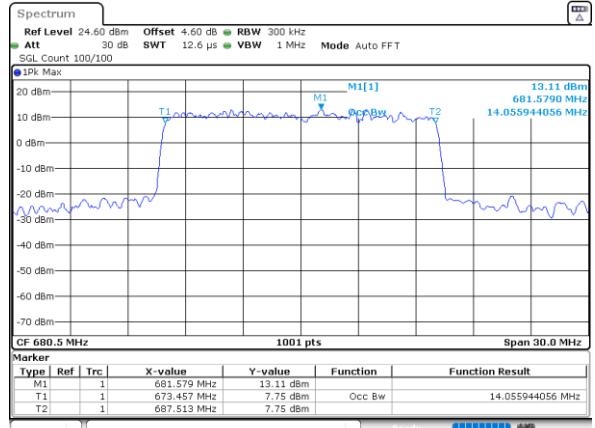


FR1 n71 / 15MHz / CP OFDM

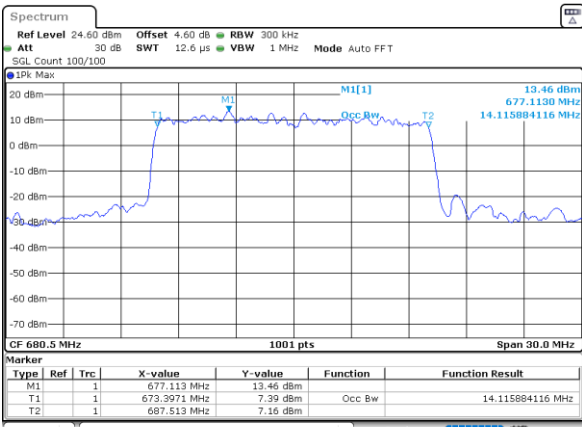
QPSK



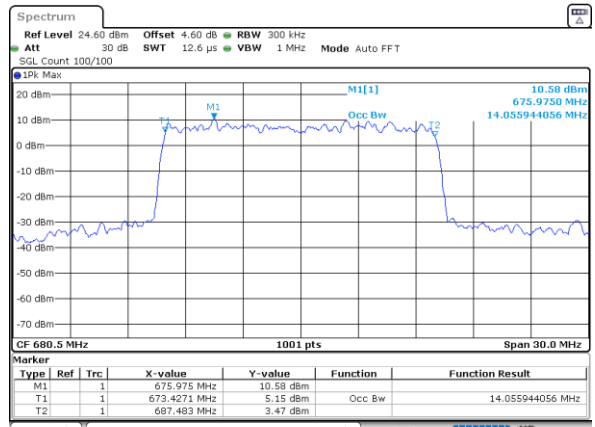
16QAM



64QAM



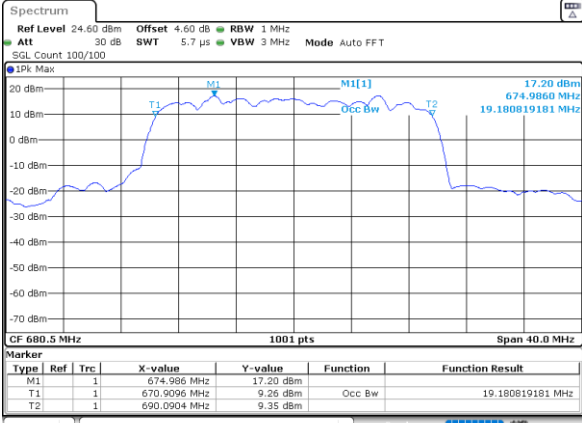
256QAM





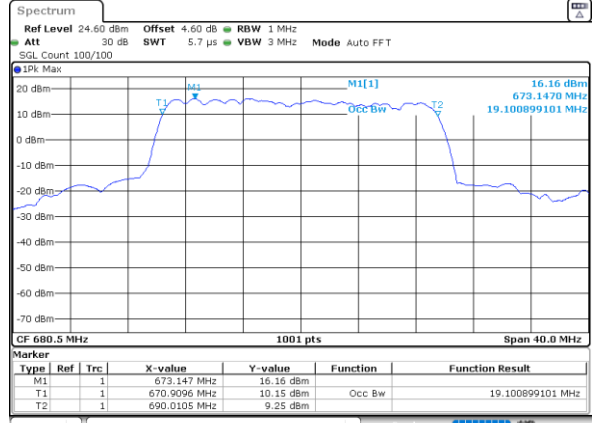
FR1 n71 / 20MHz / CP OFDM

QPSK



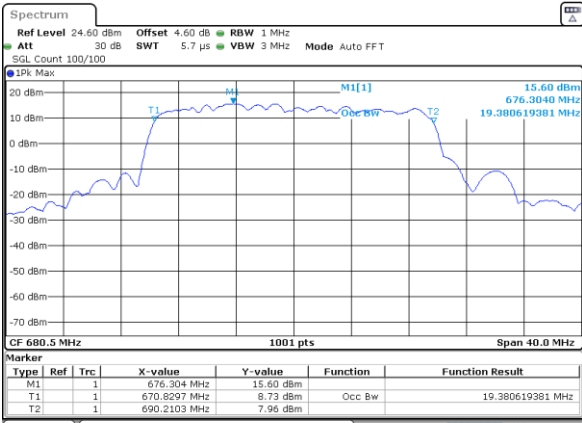
Date: 11 JUN 2022 13:56:53

16QAM



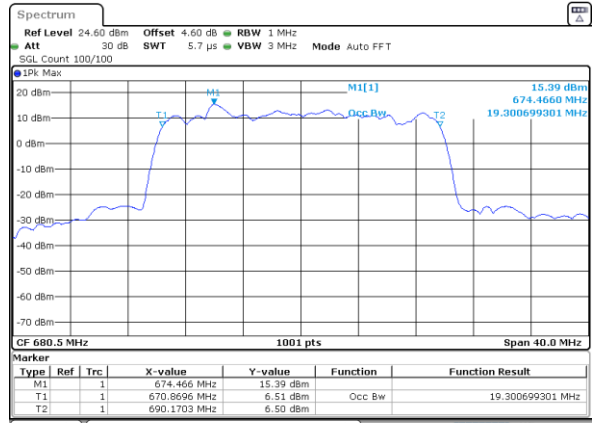
Date: 11 JUN 2022 13:56:12

64QAM



Date: 11 JUN 2022 13:55:41

256QAM



Date: 11 JUN 2022 13:55:21

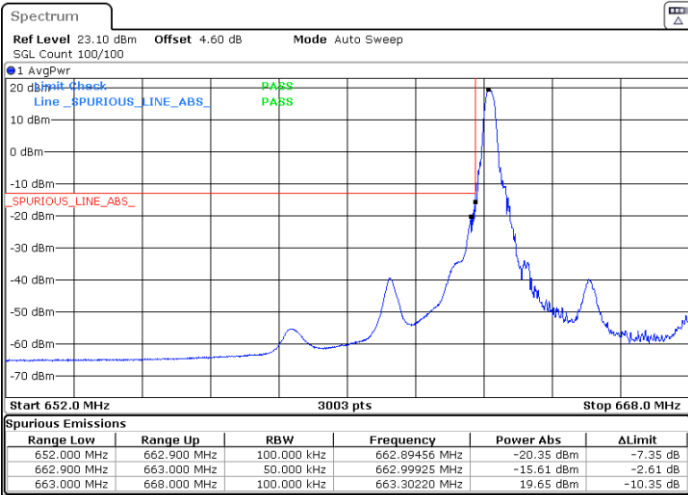


Conducted Band Edge

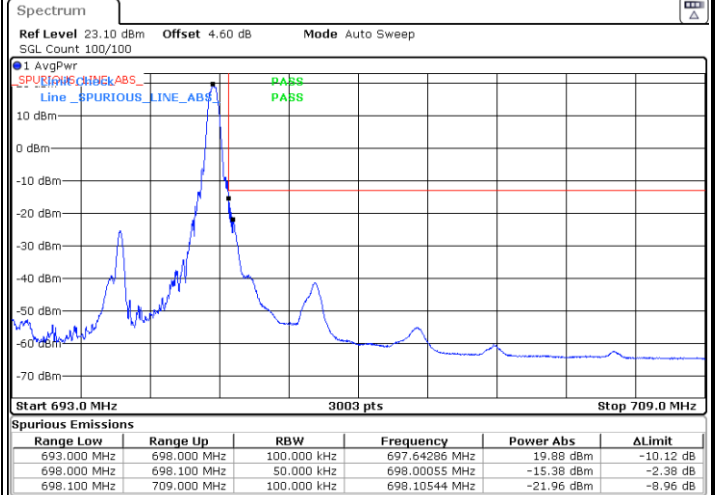
FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



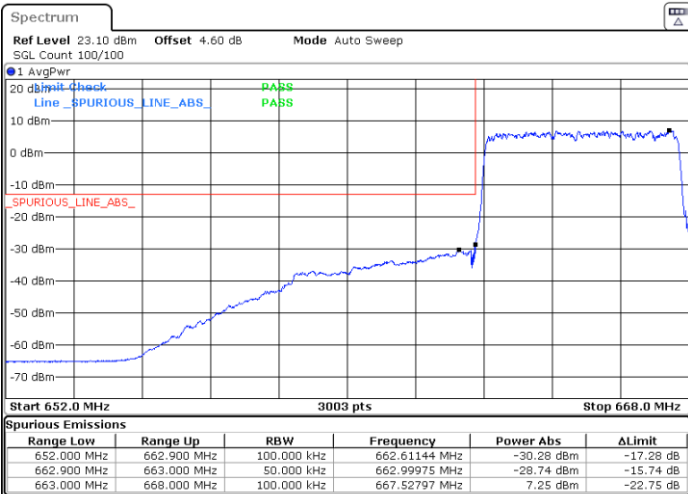
Date: 8 JUN, 2022 09:56:20



Date: 8 JUN, 2022 10:00:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 JUN, 2022 09:58:07



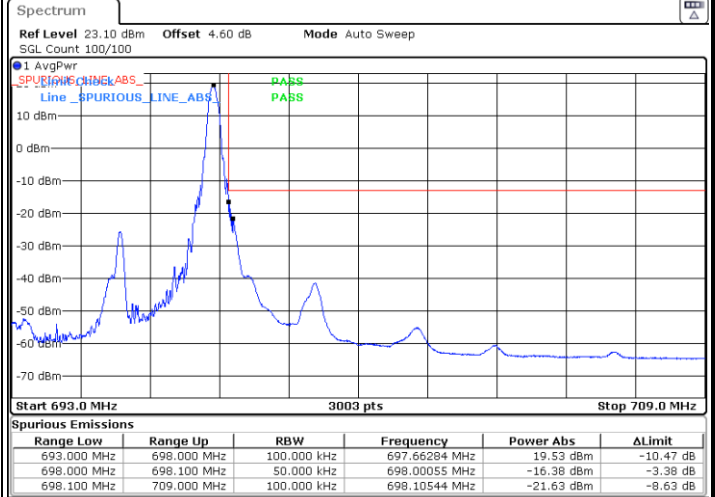
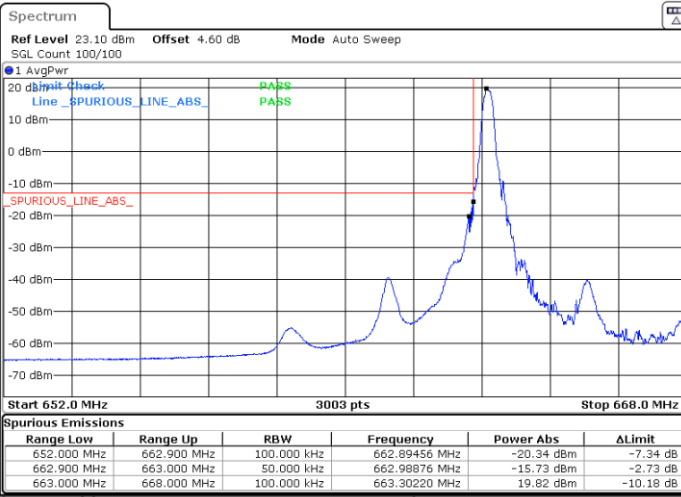
Date: 8 JUN, 2022 10:02:00



FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

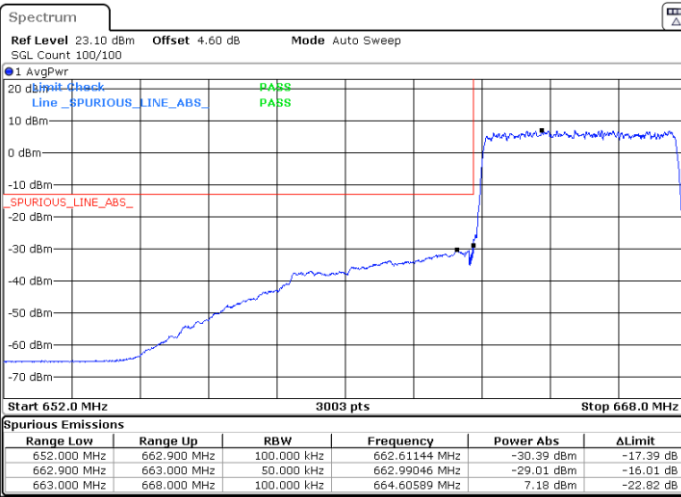


Date: 8 JUN 2022 09:57:09

Date: 8 JUN 2022 10:01:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 JUN 2022 09:58:49

Date: 8 JUN 2022 10:02:46