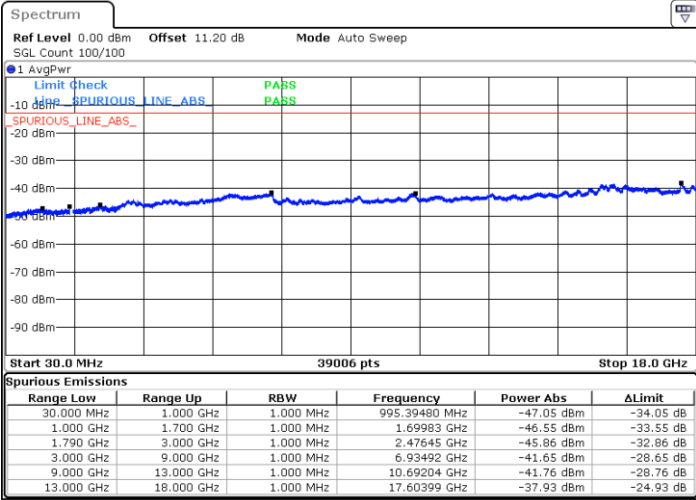




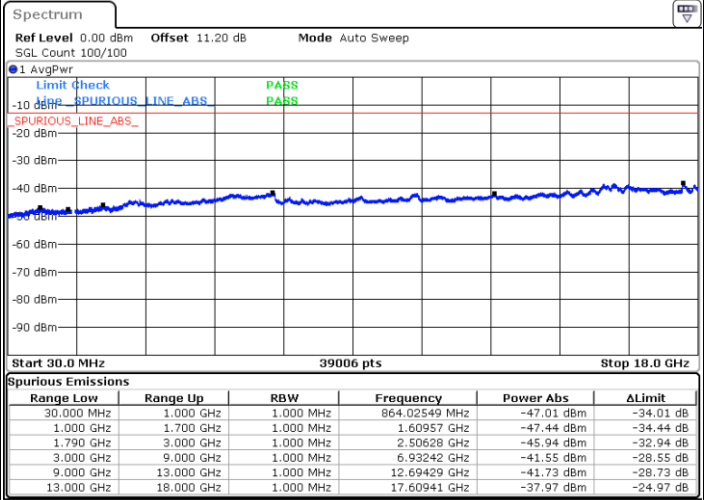
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

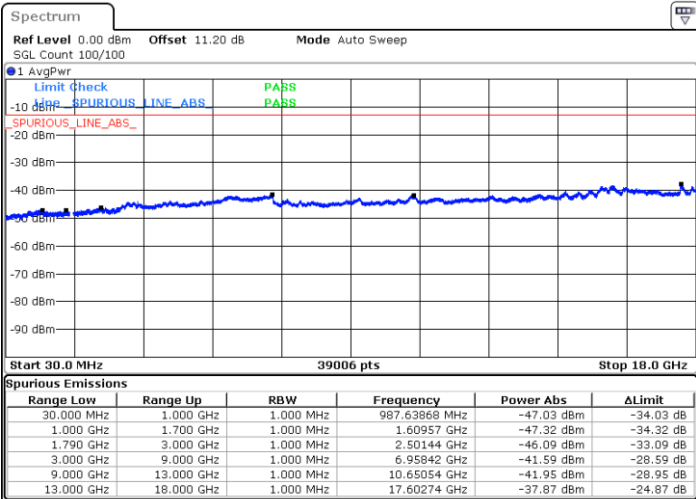


Date: 4.JUL.2020 10:06:11



Date: 4.JUL.2020 10:07:06

Highest Channel / 1RB1



Date: 4.JUL.2020 10:12:58



### Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0008	

**Note:**

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



# FR1 n71

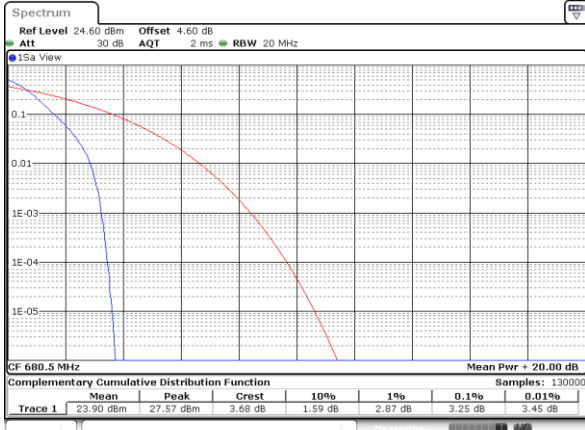
## Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.25	4.32	5.45	5.83	PASS
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.49				PASS



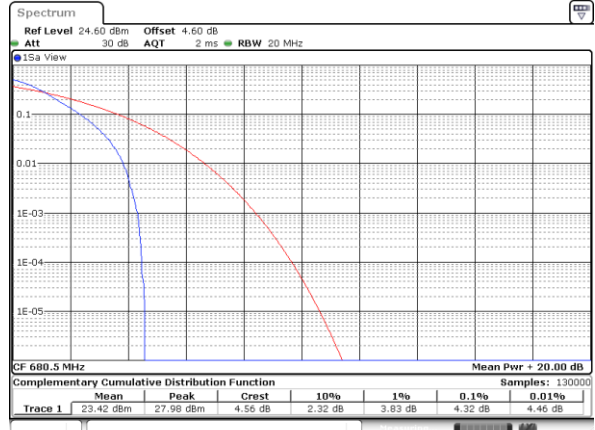
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



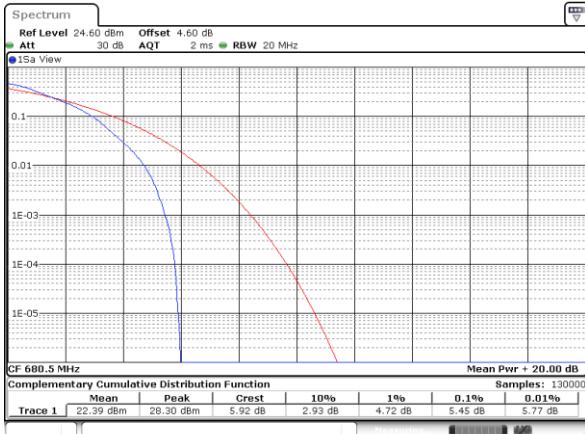
Date: 9 JUL 2020 16:13:55

QPSK



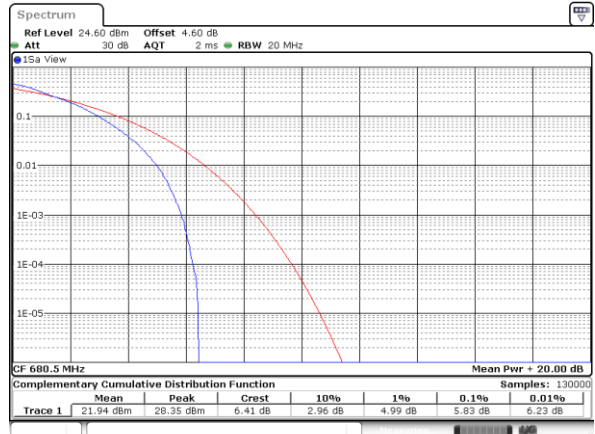
Date: 9 JUL 2020 16:13:38

16QAM



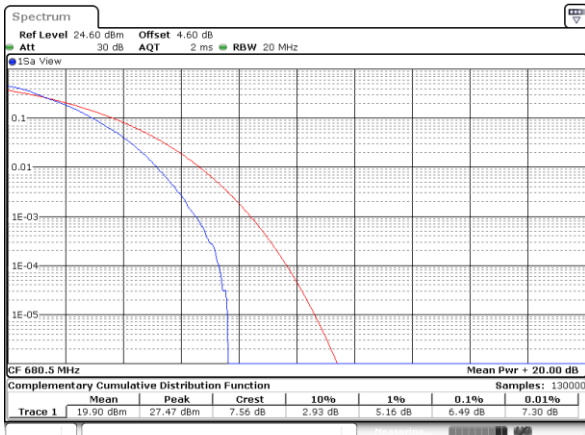
Date: 9 JUL 2020 16:13:29

64QAM



Date: 9 JUL 2020 16:13:08

256QAM



Date: 9 JUL 2020 16:13:27



**26dB Bandwidth**

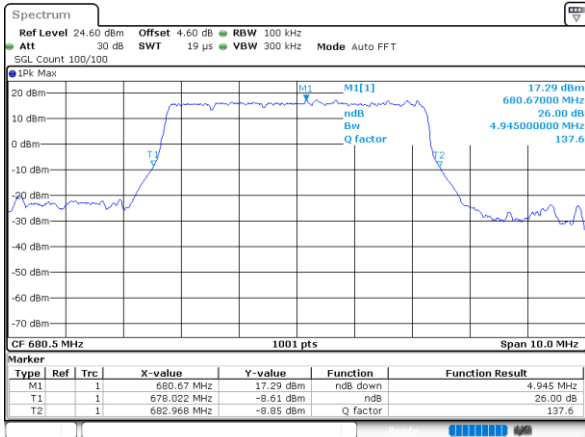
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.95		9.49		14.21		18.86	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.06	5.11	9.97	9.99	14.96	15.08	19.90	19.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.00	5.03	9.83	9.87	14.96	14.99	19.90	19.86



FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel

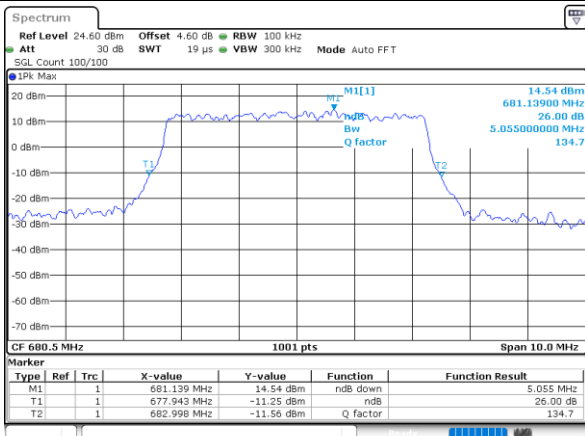
PI/2 BPSK



Date: 9 JUL 2020 17:29:15

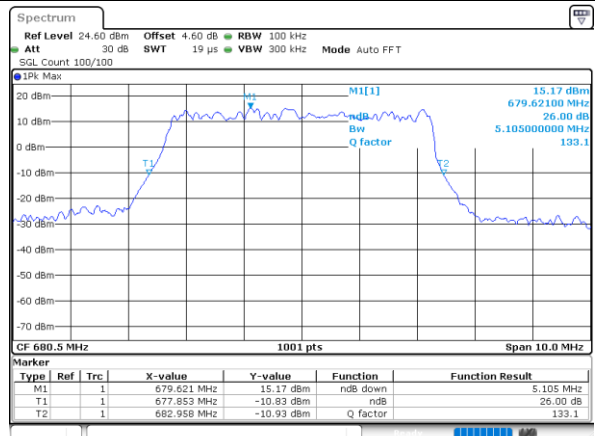
FR1 n71 / 5MHz / CP OFDM / Middle Channel

QPSK



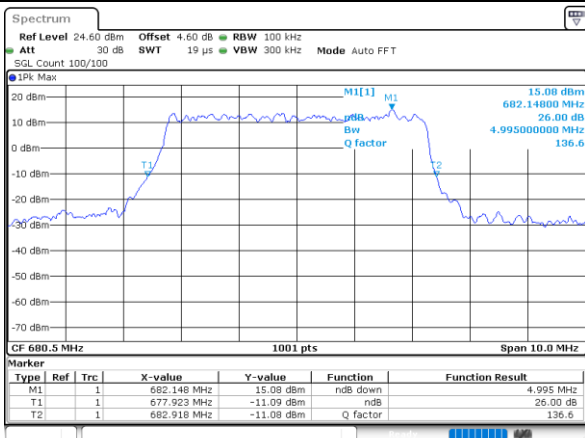
Date: 9 JUL 2020 17:29:50

16QAM



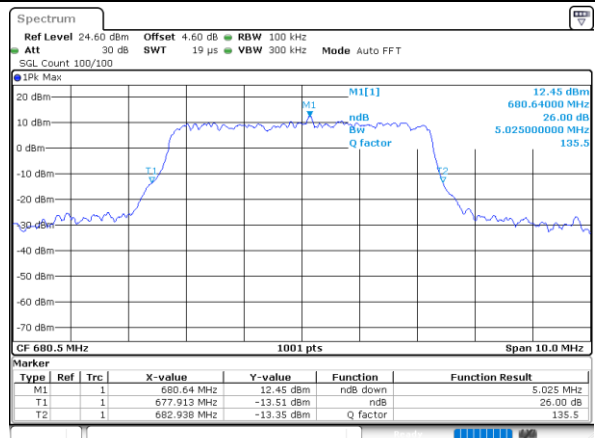
Date: 9 JUL 2020 17:30:12

64QAM



Date: 9 JUL 2020 17:30:35

256QAM

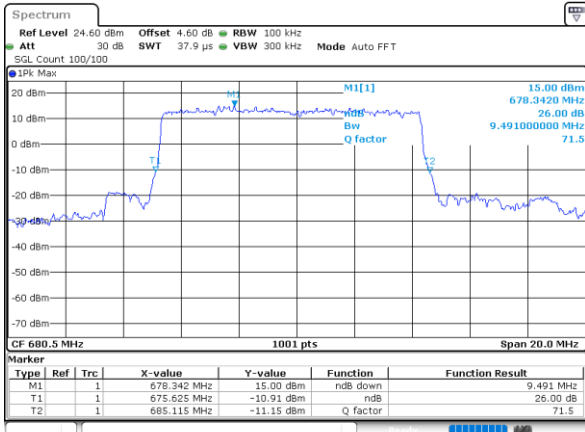


Date: 9 JUL 2020 17:31:03



FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel

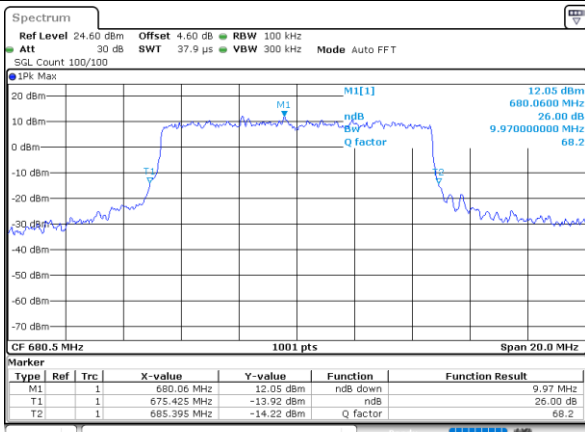
PI/2 BPSK



Date: 9 JUL 2020 16:15:19

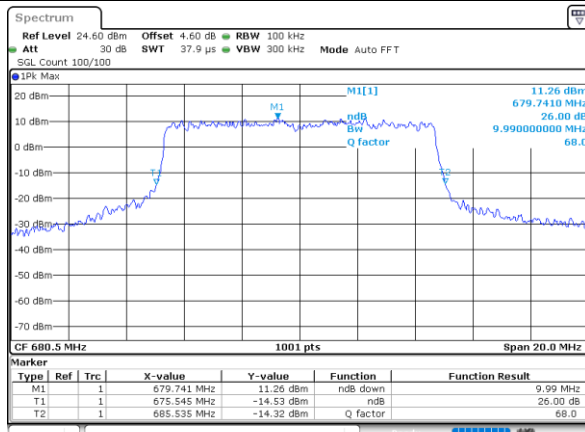
FR1 n71 / 10MHz / CP OFDM / Middle Channel

QPSK



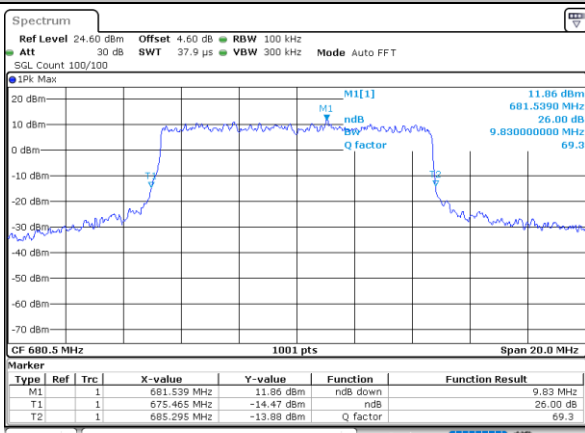
Date: 9 JUL 2020 16:15:28

16QAM



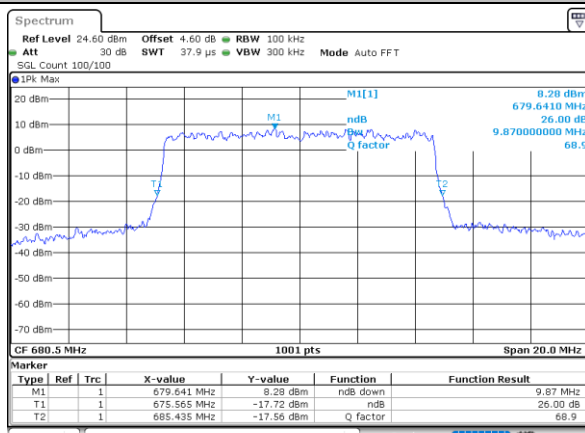
Date: 9 JUL 2020 16:15:02

64QAM



Date: 9 JUL 2020 16:15:38

256QAM

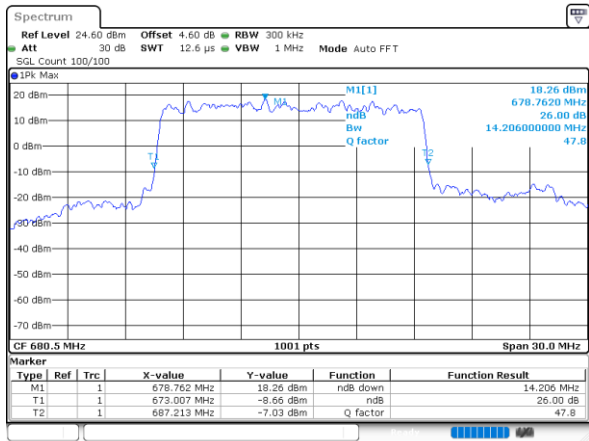


Date: 9 JUL 2020 16:15:06



FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel

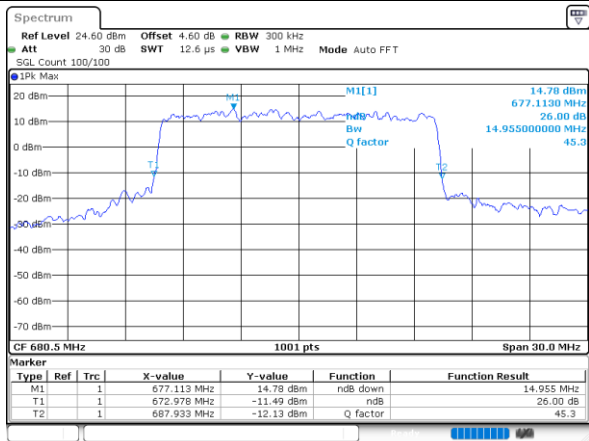
PI/2 BPSK



Date: 9 JUL 2020 16:43:19

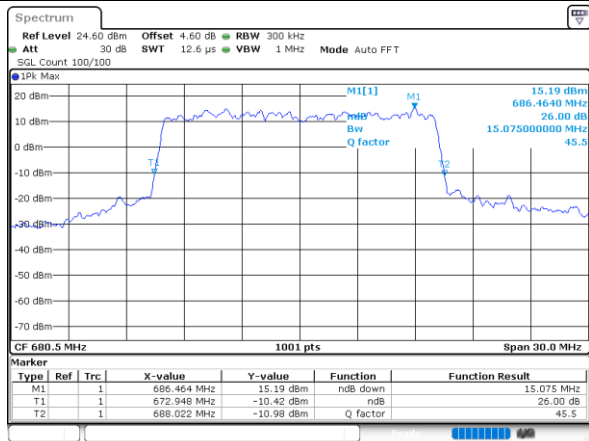
FR1 n71 / 15MHz / CP OFDM / Middle Channel

QPSK



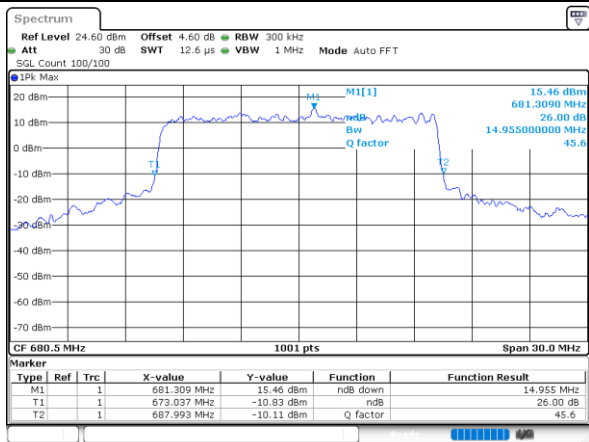
Date: 9 JUL 2020 16:43:51

16QAM



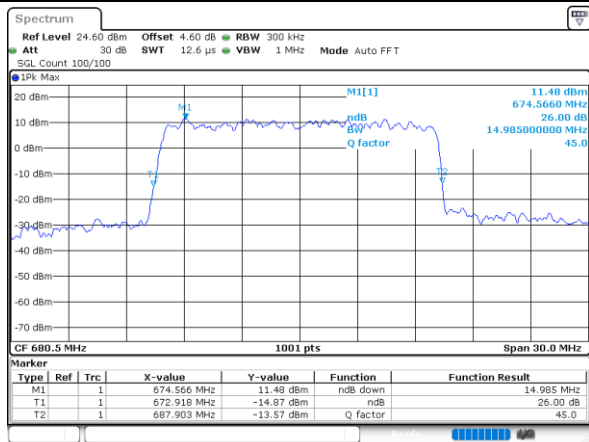
Date: 9 JUL 2020 16:44:50

64QAM



Date: 9 JUL 2020 16:45:11

256QAM



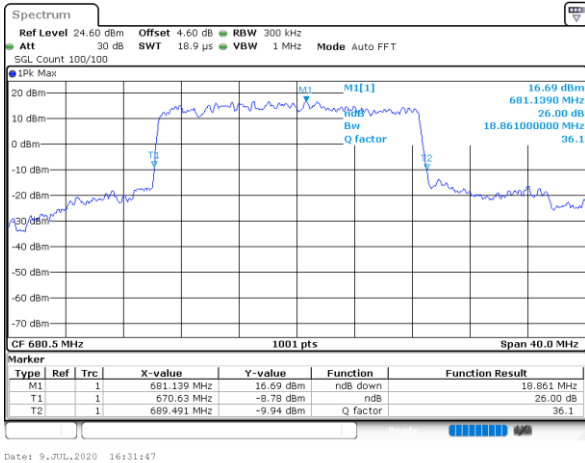
Date: 9 JUL 2020 16:45:41





FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel

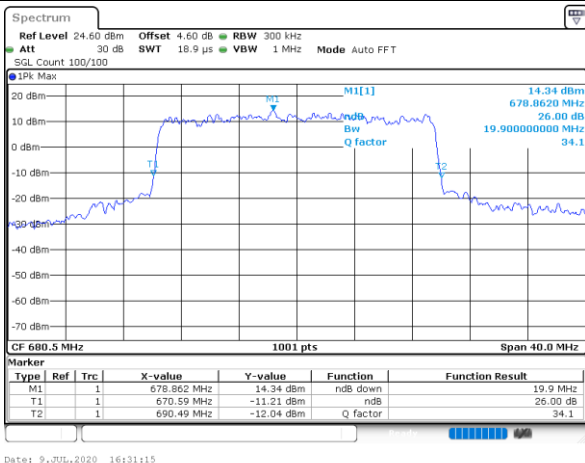
PI/2 BPSK



Date: 9 JUL 2020 16:13:17

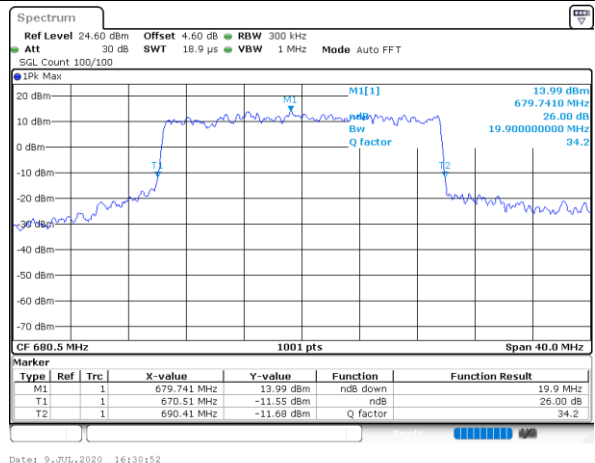
FR1 n71 / 20MHz / CP OFDM

QPSK



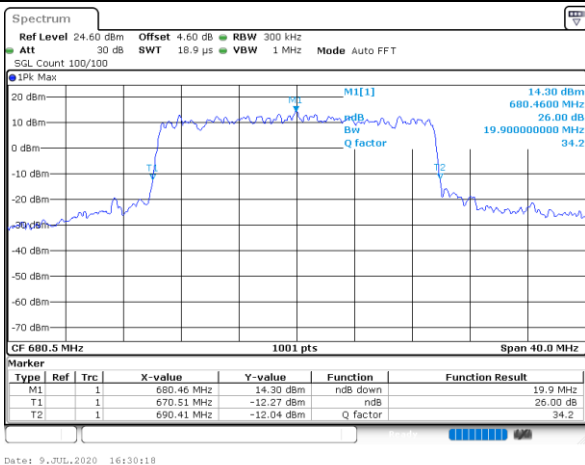
Date: 9 JUL 2020 16:13:15

16QAM



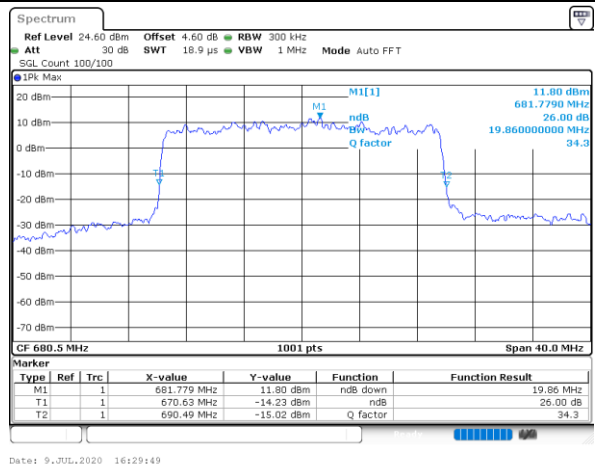
Date: 9 JUL 2020 16:30:52

64QAM



Date: 9 JUL 2020 16:13:18

256QAM



Date: 9 JUL 2020 16:29:49



**Occupied Bandwidth**

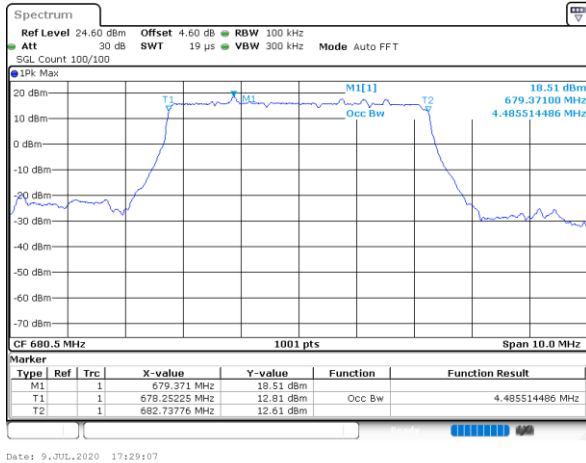
Mode	FR1 n71 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.49		8.89		13.49		17.86	

Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.53	9.25	9.25	14.15	14.15	18.90	18.86
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.49	4.49	9.21	9.27	14.15	14.15	18.90	18.86



FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel

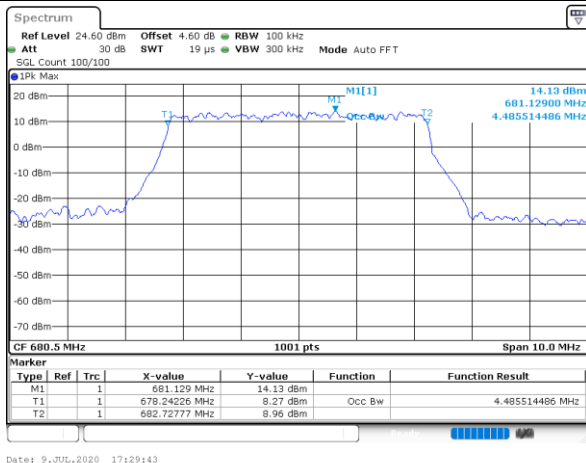
PI/2 BPSK



Date: 9 JUL 2020 17:29:07

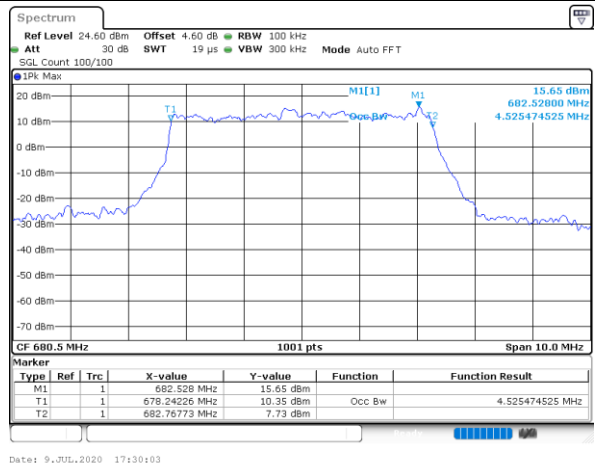
FR1 n71 / 5MHz / CP OFDM

QPSK



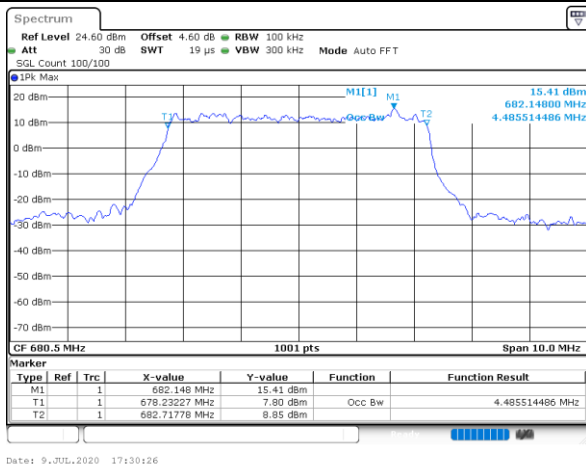
Date: 9 JUL 2020 17:29:43

16QAM



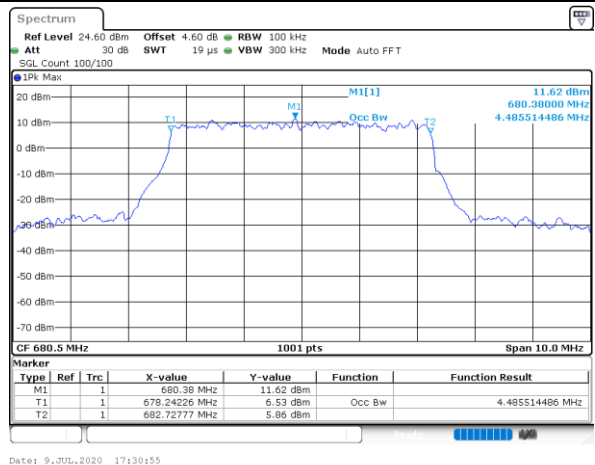
Date: 9 JUL 2020 17:30:03

64QAM



Date: 9 JUL 2020 17:30:26

256QAM

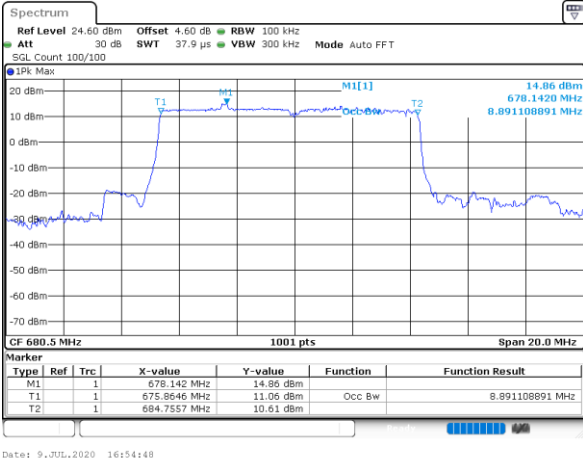


Date: 9 JUL 2020 17:30:55



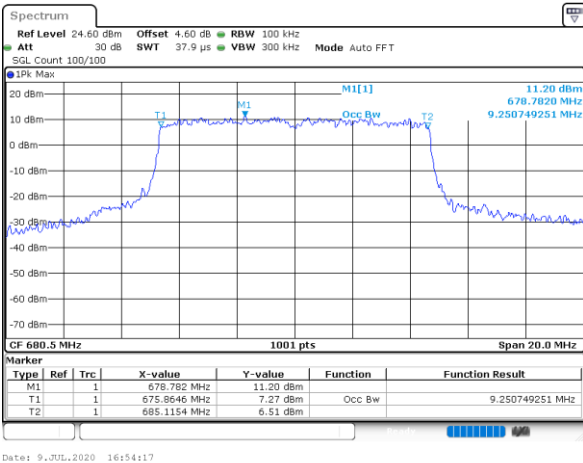
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

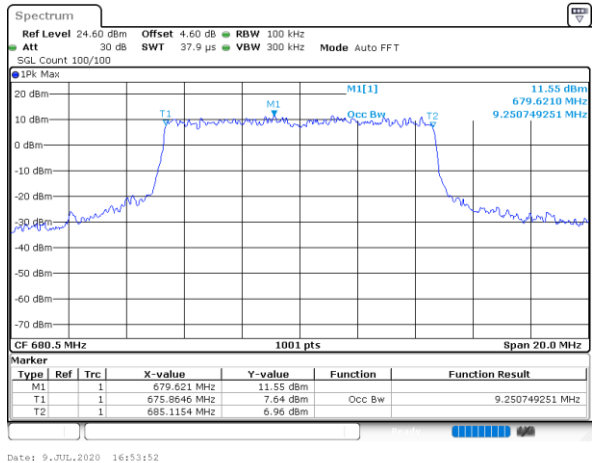


FR1 n71 / 10MHz / CP OFDM

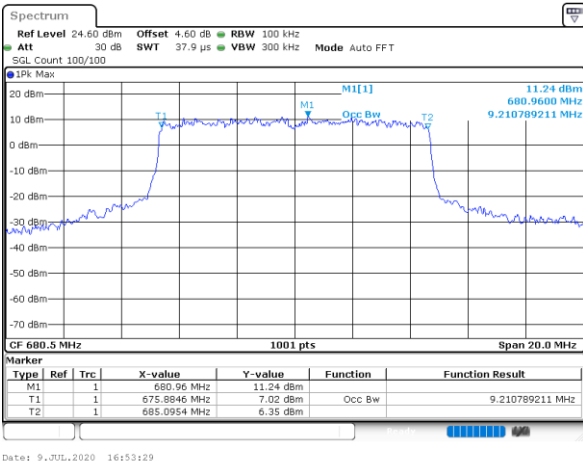
QPSK



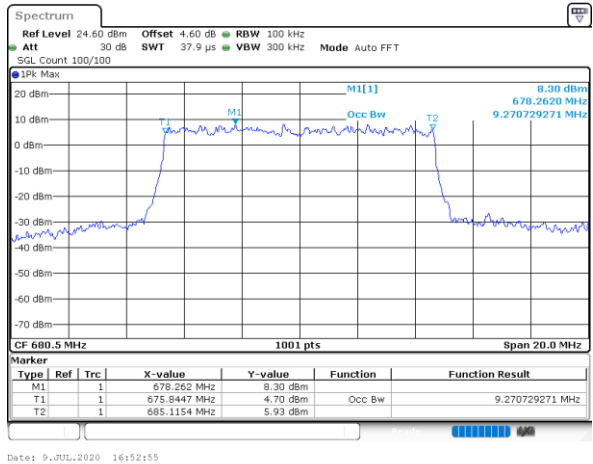
16QAM



64QAM



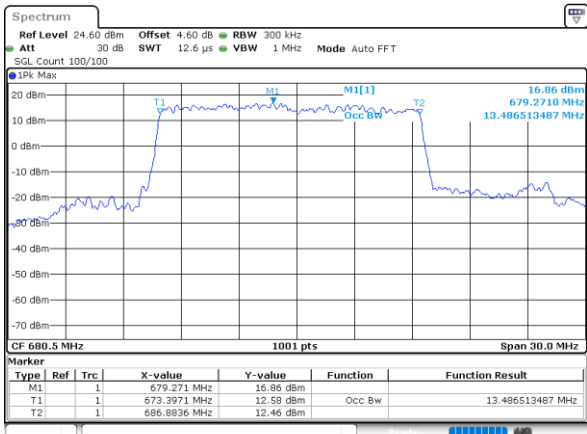
256QAM





FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel

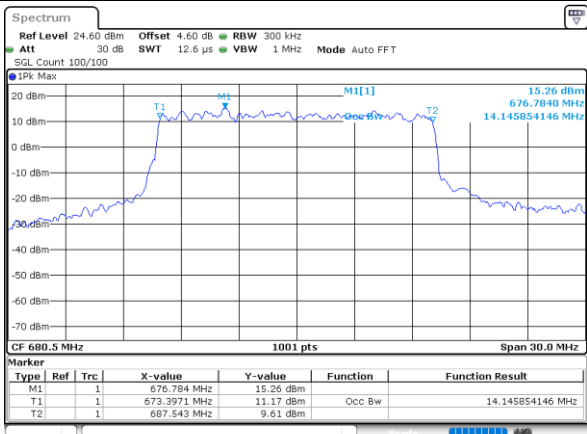
PI/2 BPSK



Date: 9 JUL 2020 16:43:10

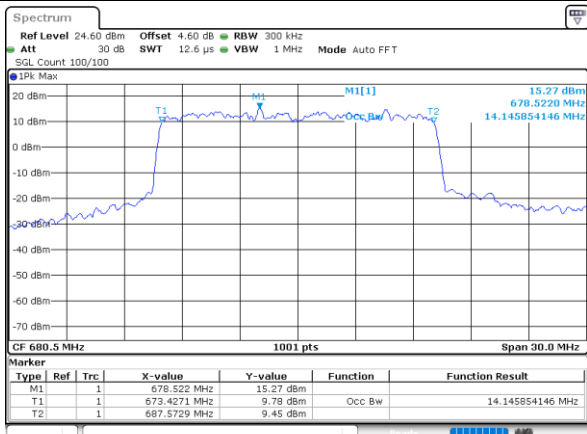
FR1 n71 / 15MHz / CP OFDM

QPSK



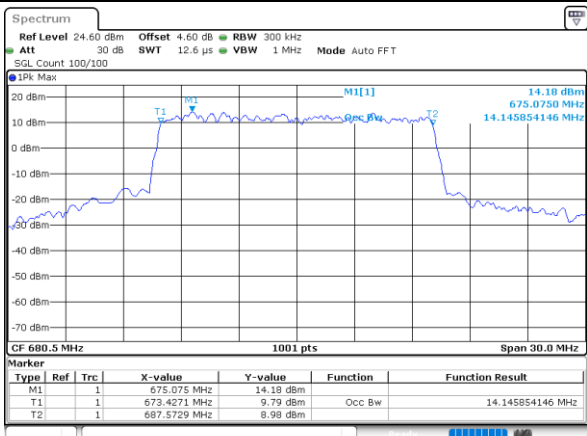
Date: 9 JUL 2020 16:43:41

16QAM



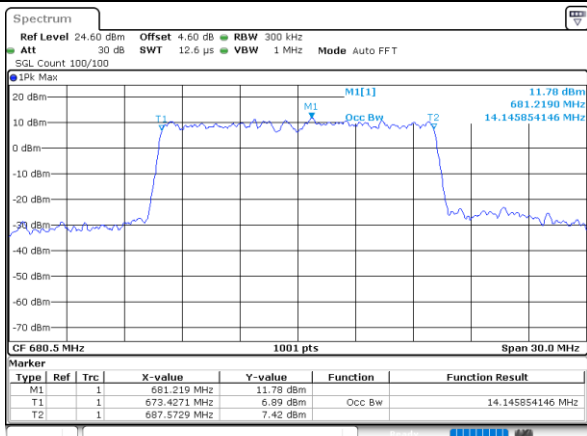
Date: 9 JUL 2020 16:44:40

64QAM



Date: 9 JUL 2020 16:45:02

256QAM

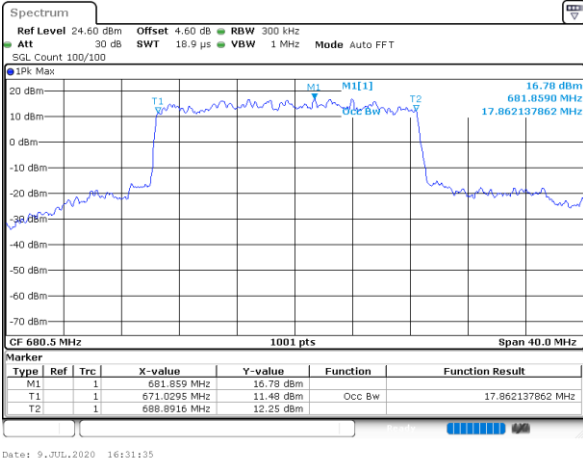


Date: 9 JUL 2020 16:45:31



FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel

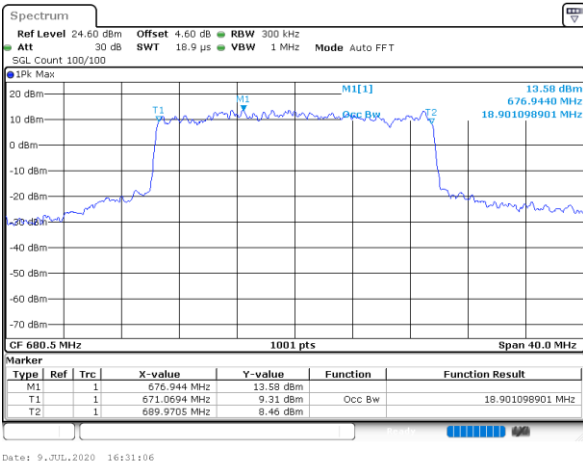
PI/2 BPSK



Date: 9 JUL 2020 16:31:35

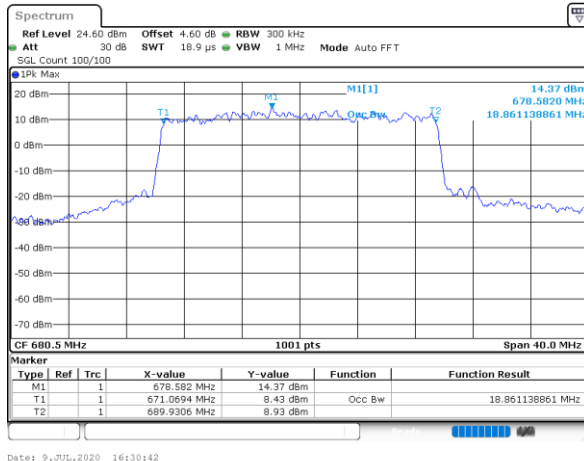
FR1 n71 / 20MHz / CP OFDM

QPSK



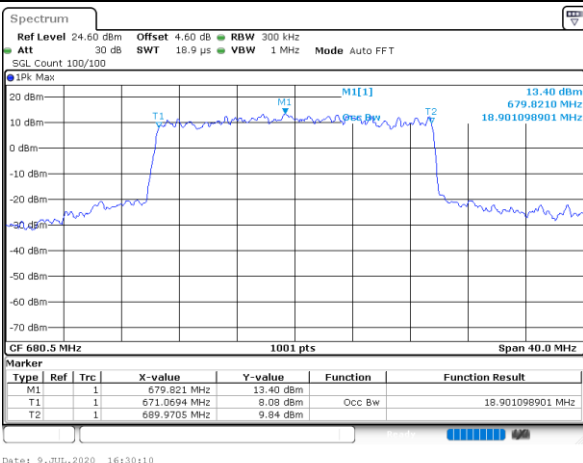
Date: 9 JUL 2020 16:31:06

16QAM



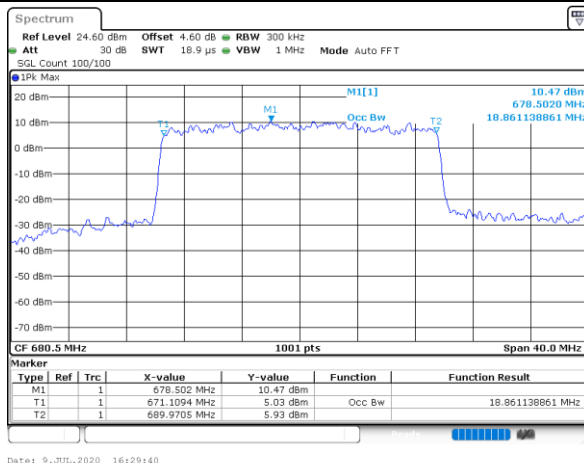
Date: 9 JUL 2020 16:30:42

64QAM



Date: 9 JUL 2020 16:30:10

256QAM



Date: 9 JUL 2020 16:29:40

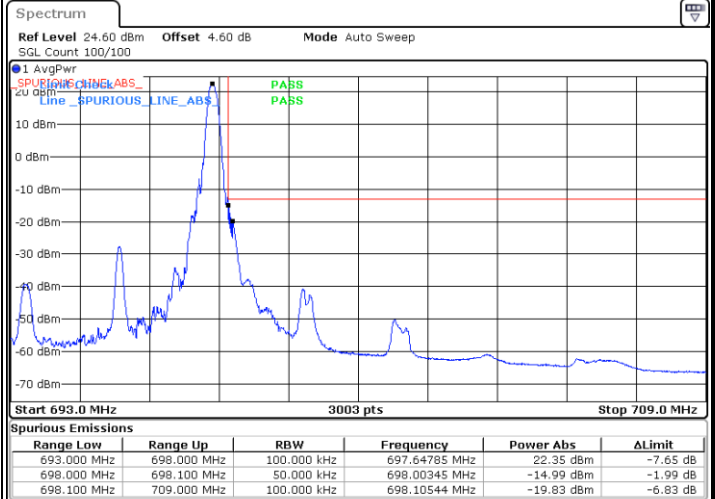
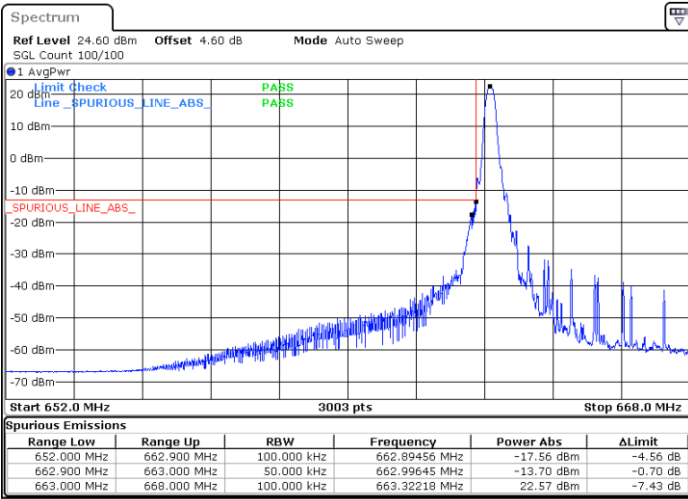


# Conducted Band Edge

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

Lowest Band Edge / 1RB0

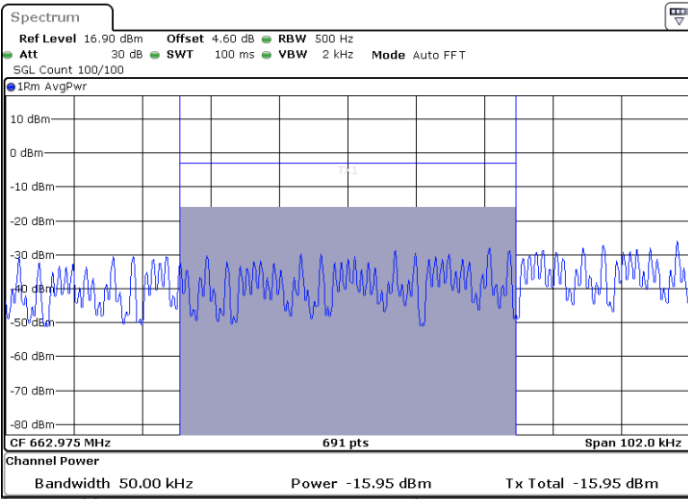
Highest Band Edge / 1RBmax



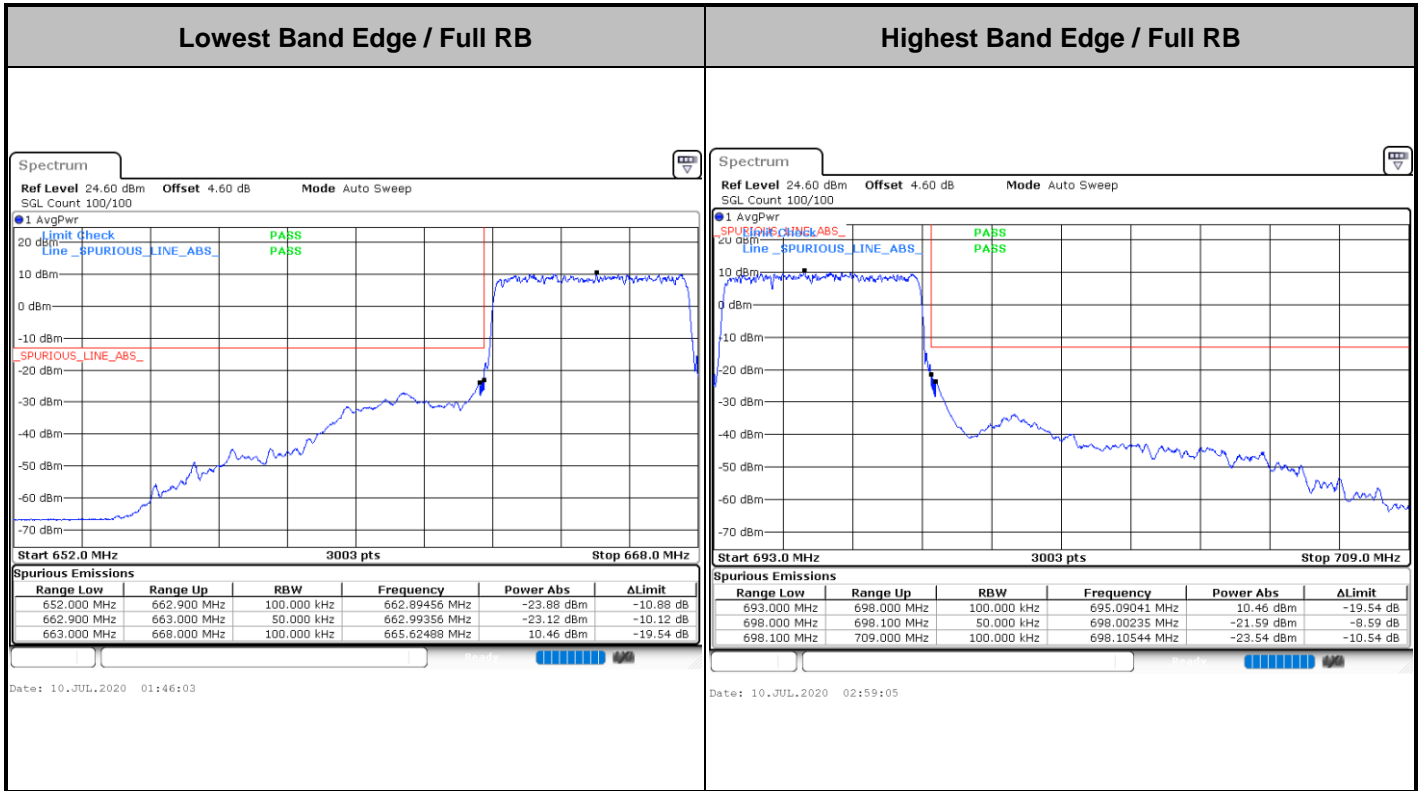
Date: 10.JUL.2020 01:49:57

Date: 10.JUL.2020 03:00:32

Channel Power -15.95dBm < -13dBm (Pass)



Date: 10.JUL.2020 01:53:33



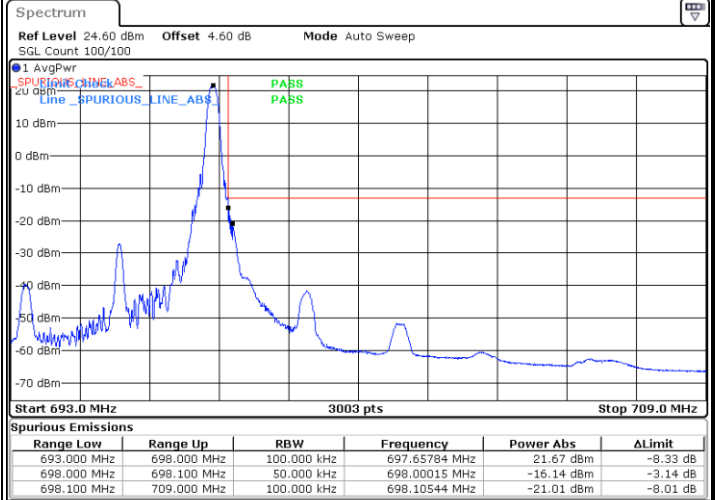
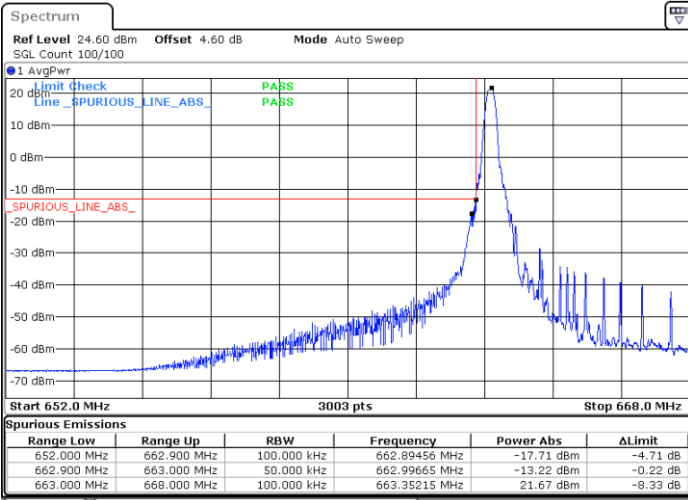




FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

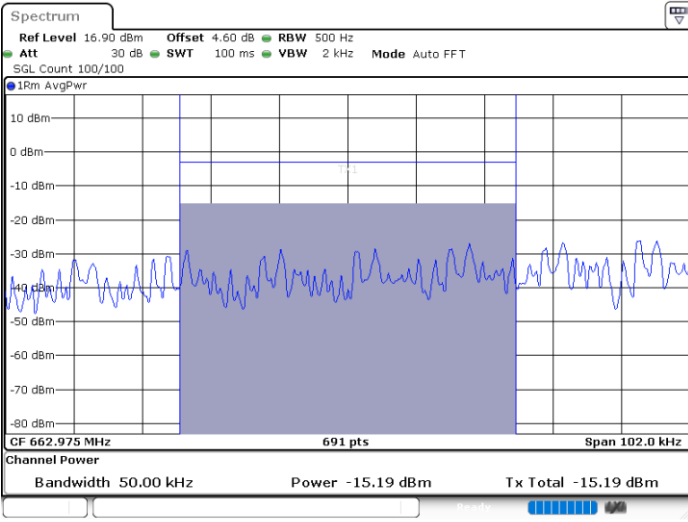
Highest Band Edge / 1RBmax



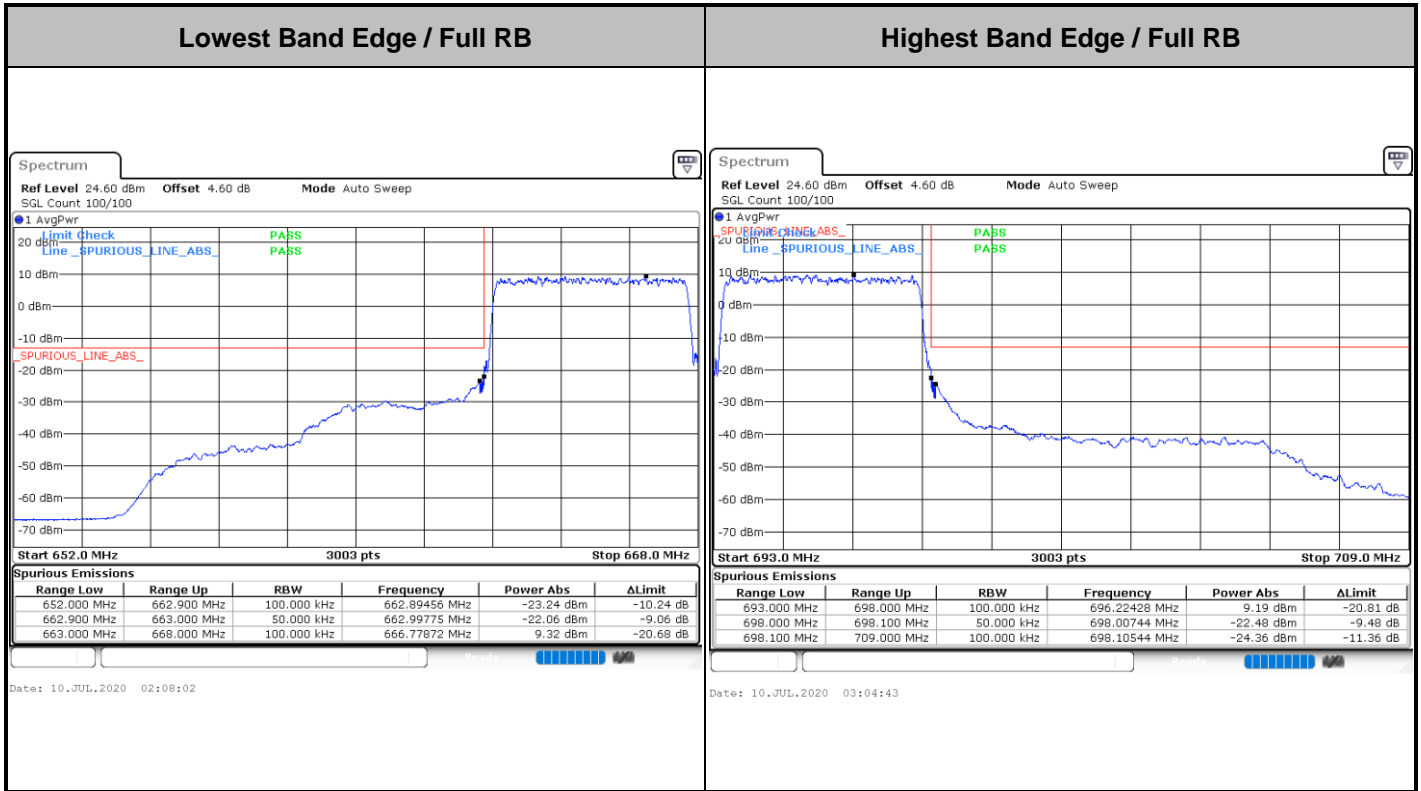
Date: 10.JUL.2020 02:03:47

Date: 10.JUL.2020 03:02:04

Channel Power -15.19dBm < -13dBm (Pass)



Date: 10.JUL.2020 02:06:40

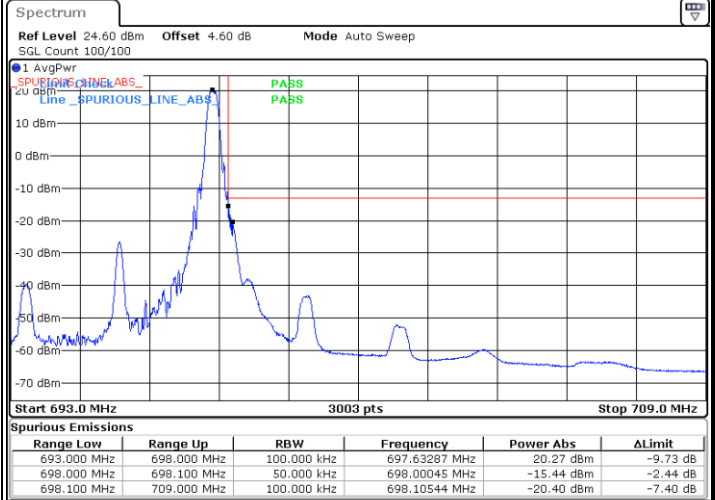
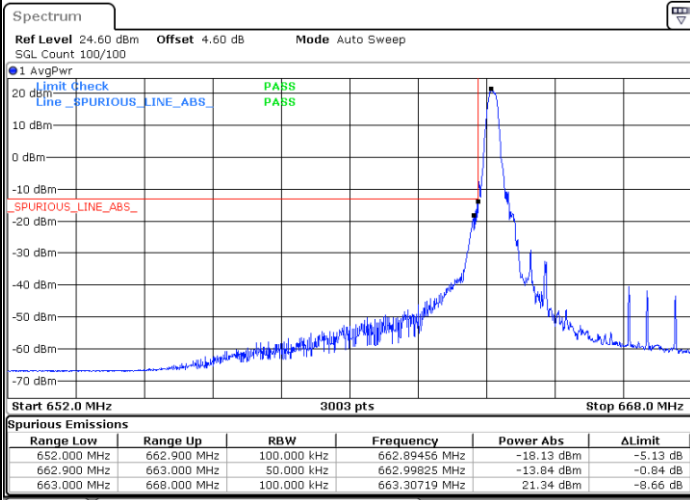




FR1 n71 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

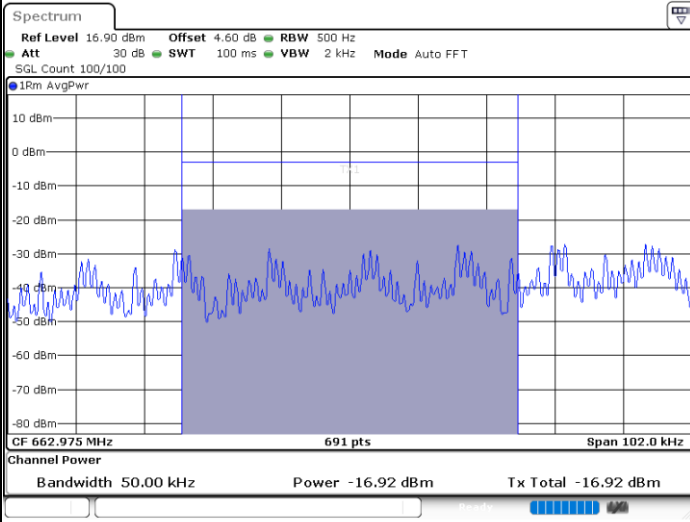
Highest Band Edge / 1RBmax



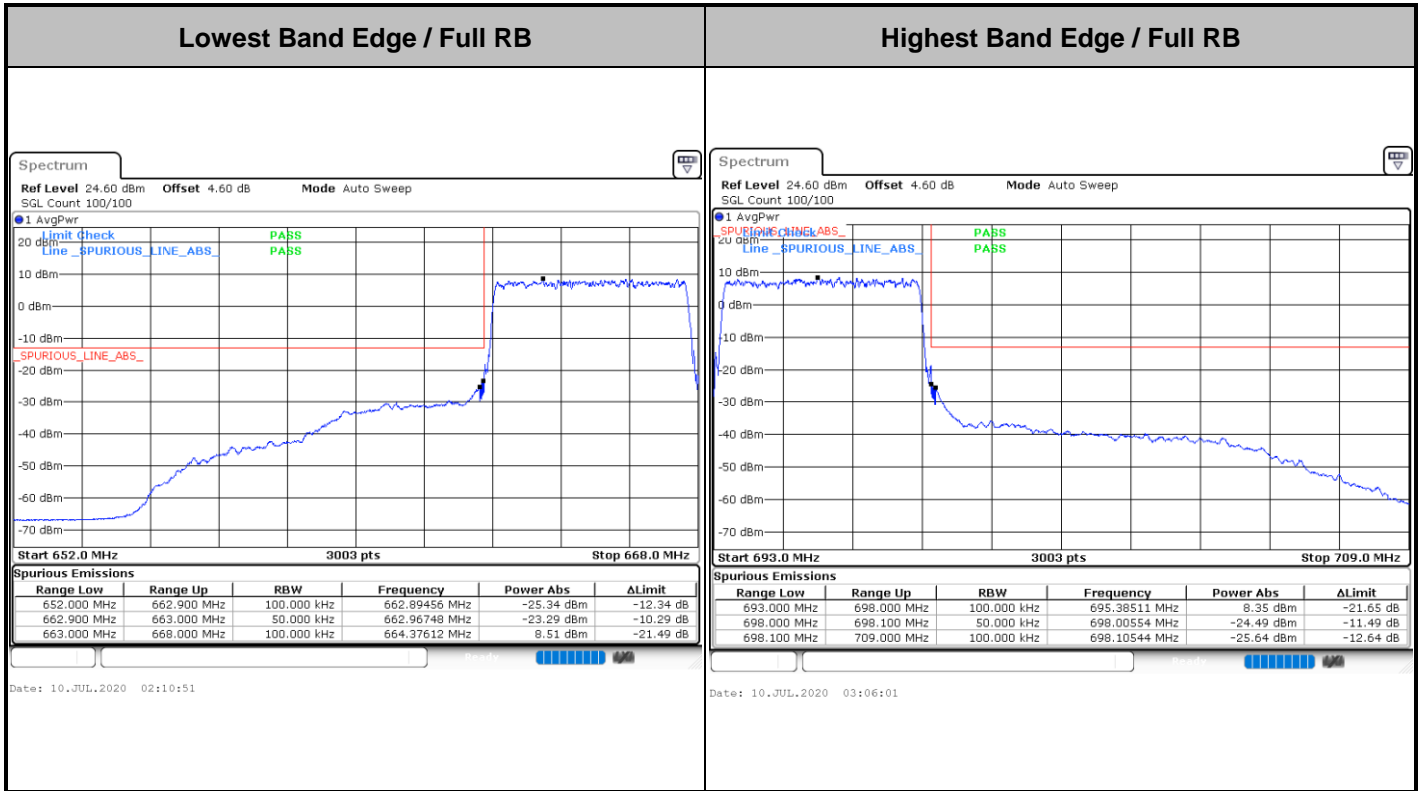
Date: 10.JUL.2020 02:48:37

Date: 10.JUL.2020 03:07:48

Channel Power -16.92dBm < -13dBm (Pass)



Date: 10.JUL.2020 02:16:50

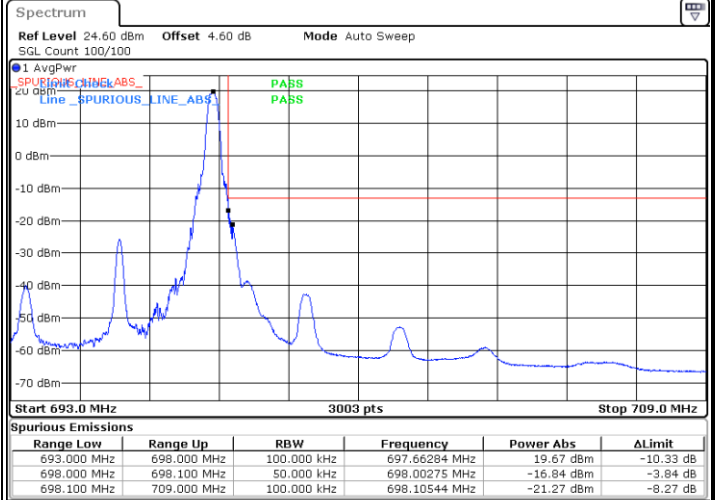
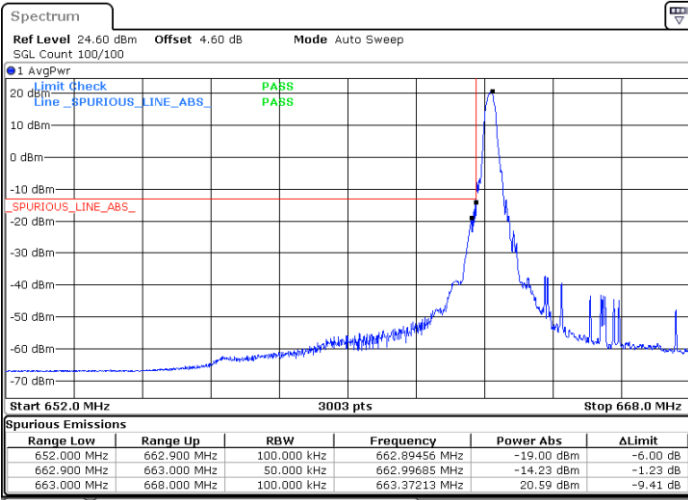




FR1 n71 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

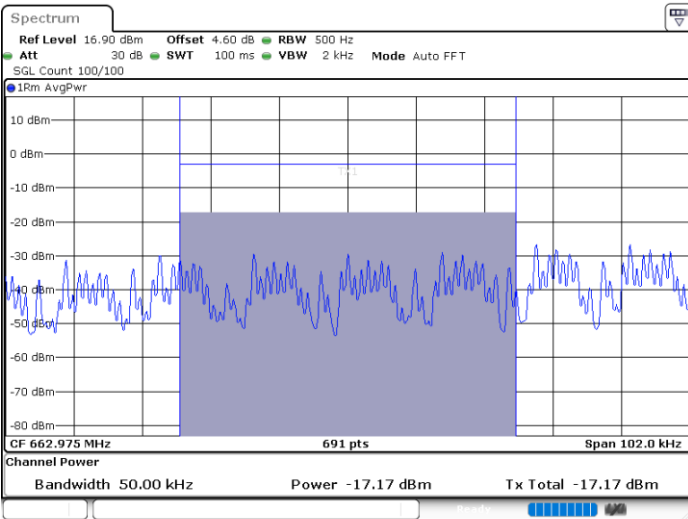
Highest Band Edge / 1RBmax



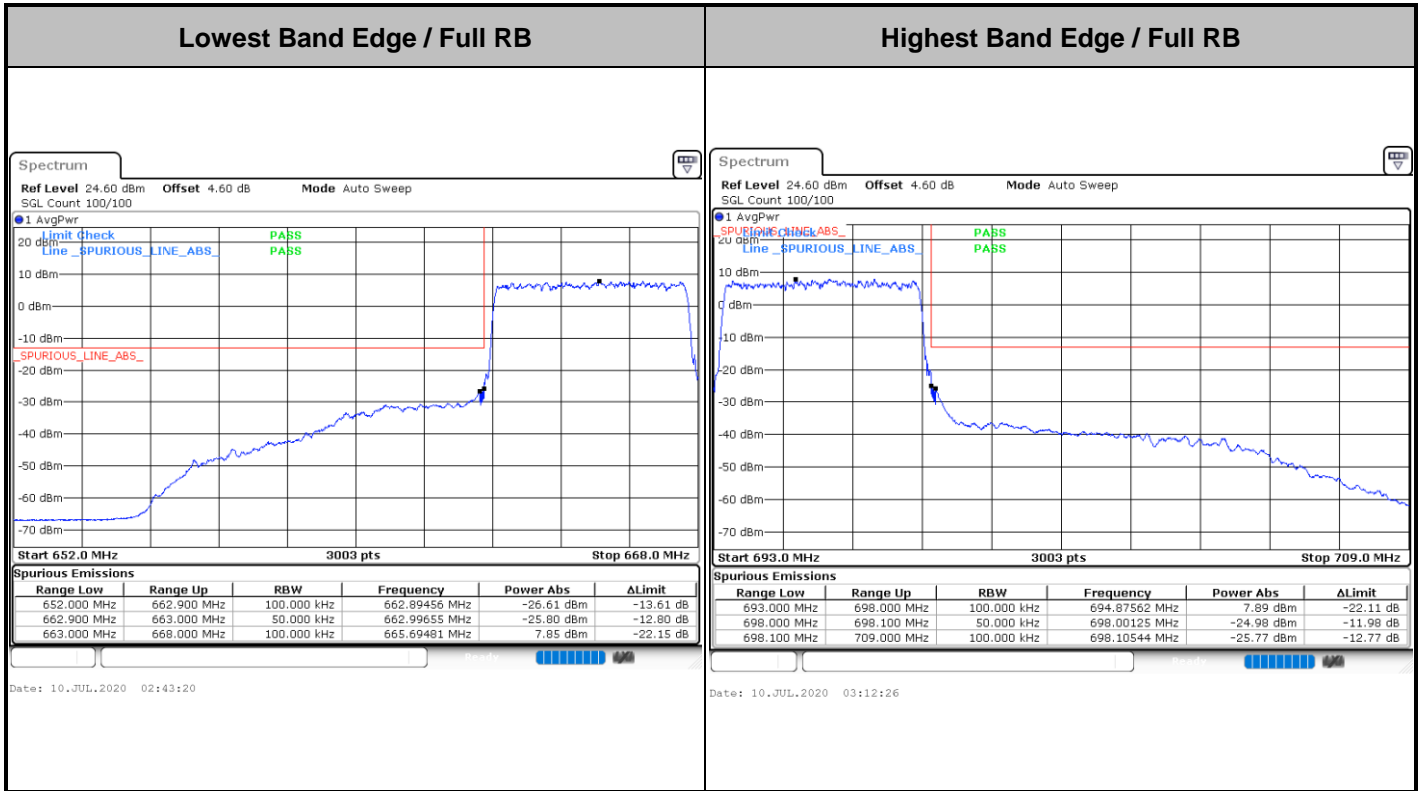
Date: 10.JUL.2020 02:24:15

Date: 10.JUL.2020 03:11:16

Channel Power -17.17dBm < -13dBm (Pass)



Date: 10.JUL.2020 02:39:16

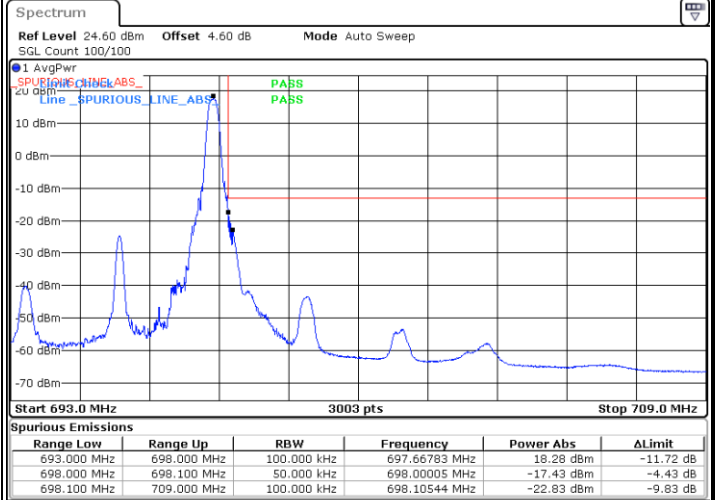
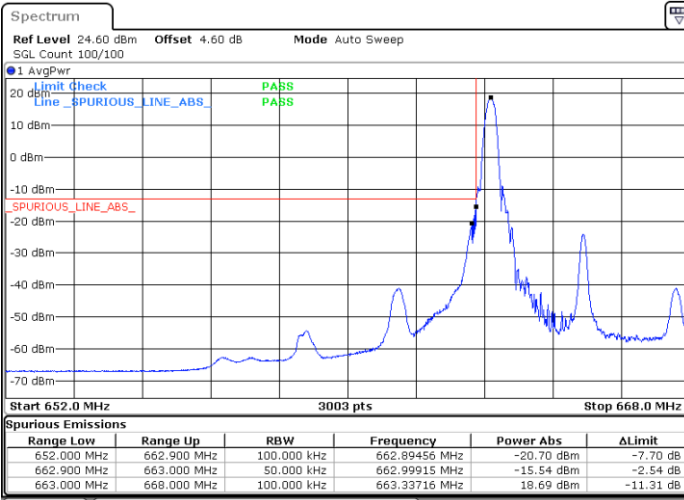




FR1 n71 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

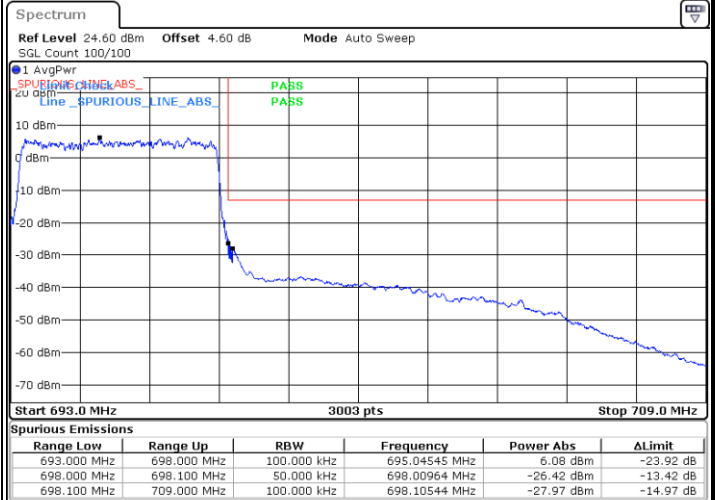
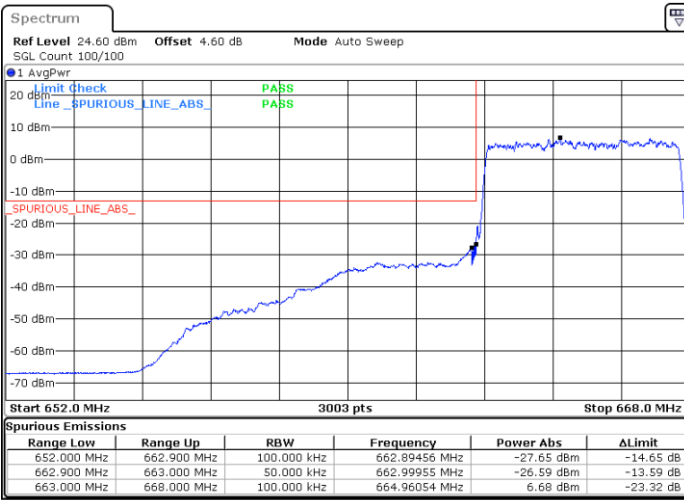


Date: 10.JUL.2020 02:52:19

Date: 10.JUL.2020 03:15:22

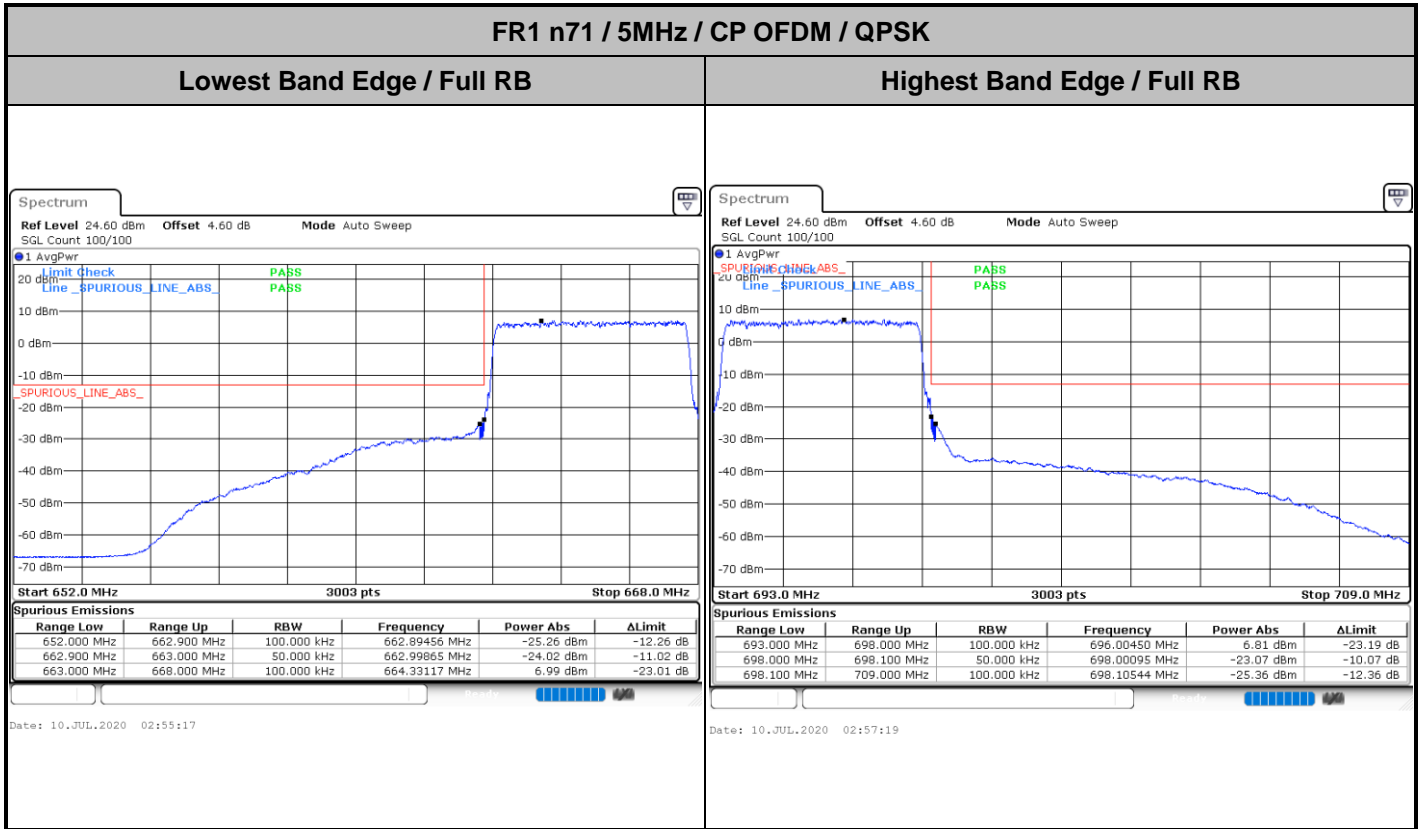
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JUL.2020 02:53:19

Date: 10.JUL.2020 03:14:01

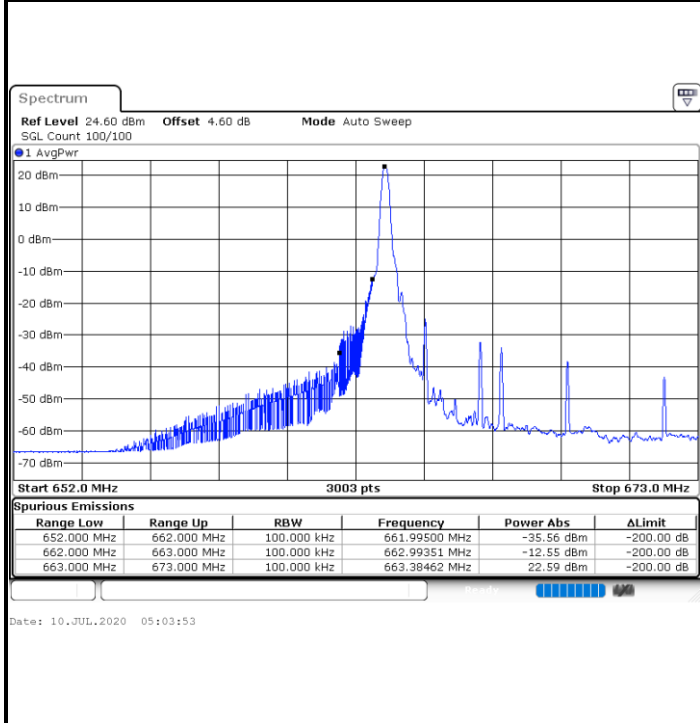




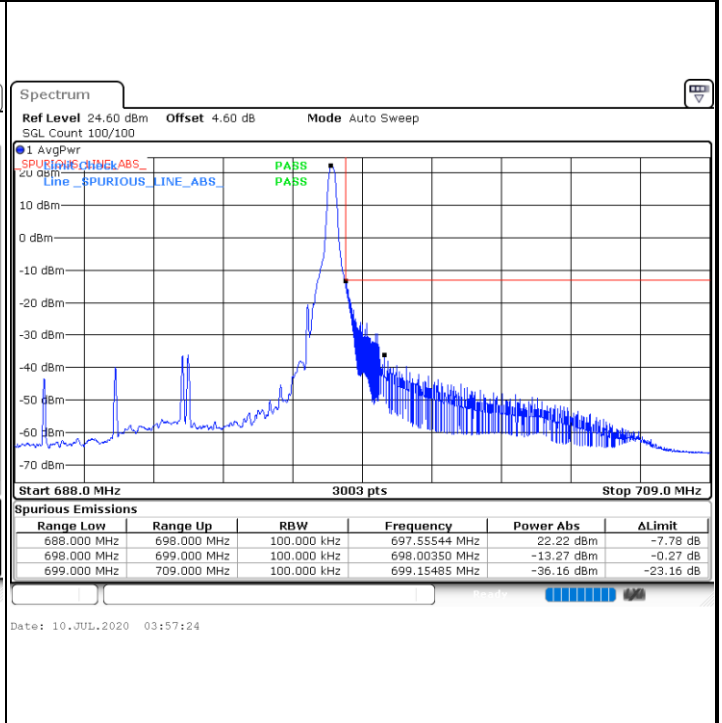


FR1 n71 / 10MHz / DFT-s-OFDM / PI/2 BPSK

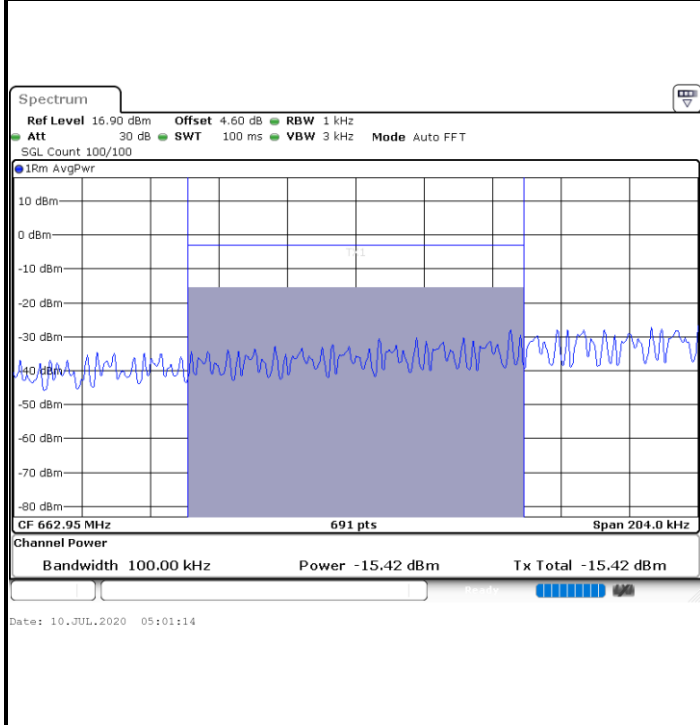
Lowest Band Edge / 1RB0



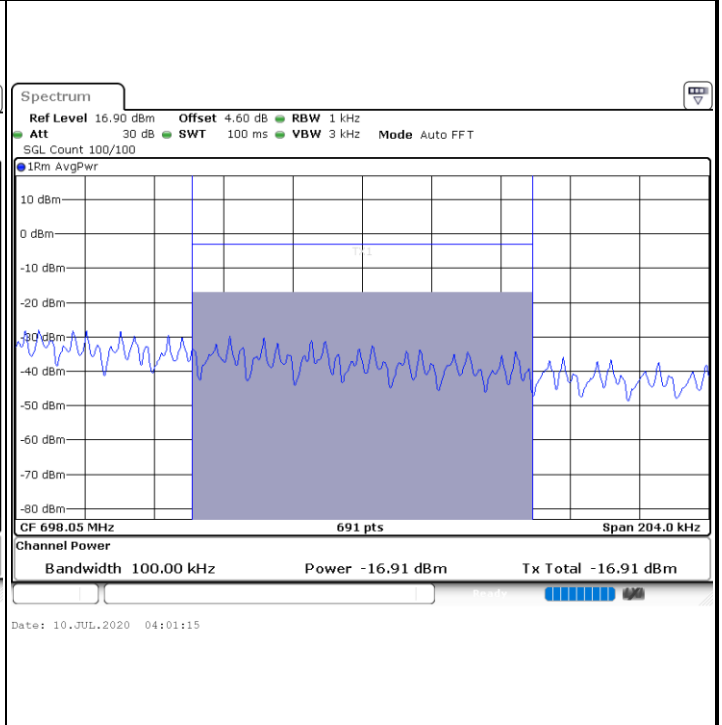
Highest Band Edge / 1RBmax

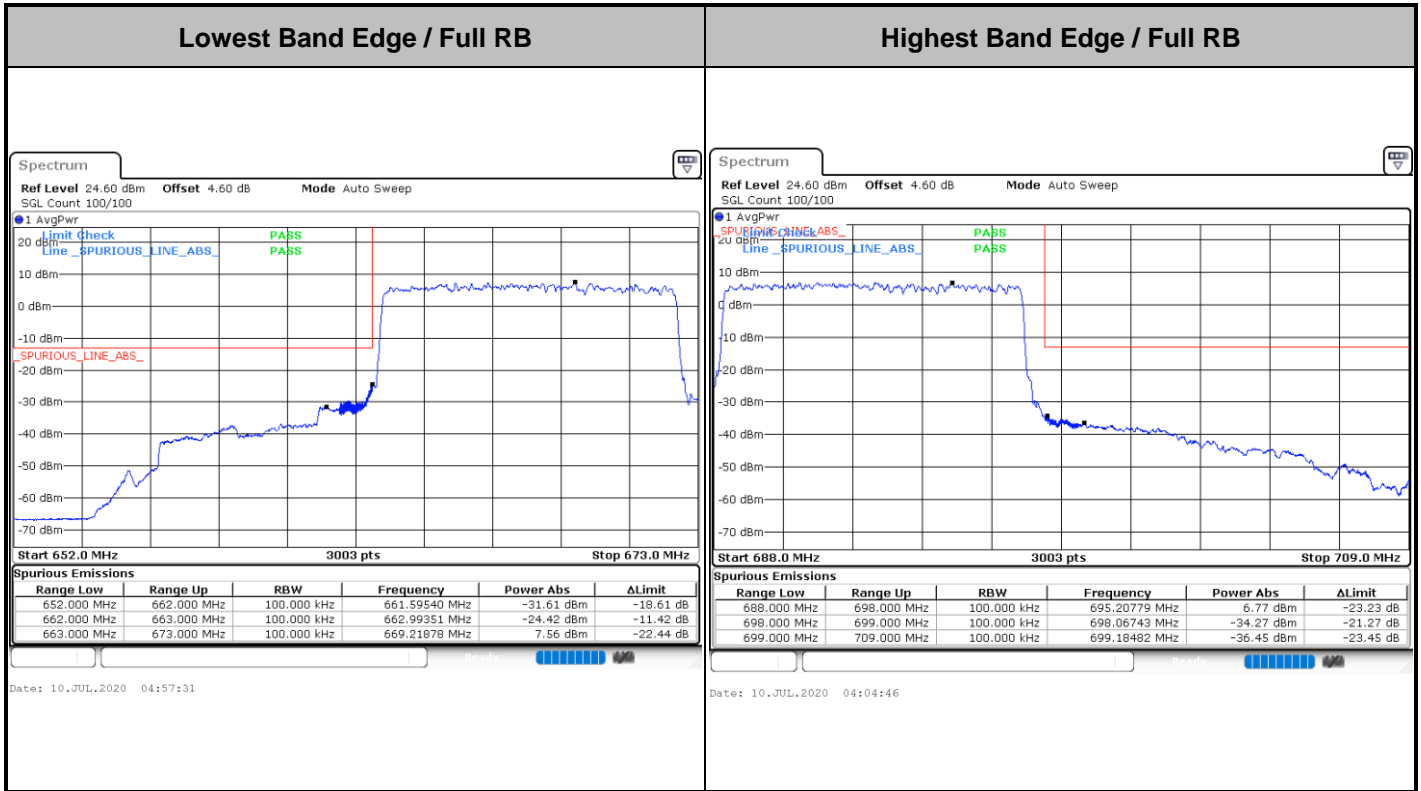


Channel Power -15.42dBm < -13dBm (Pass)



Channel Power -16.91dBm < -13dBm (Pass)



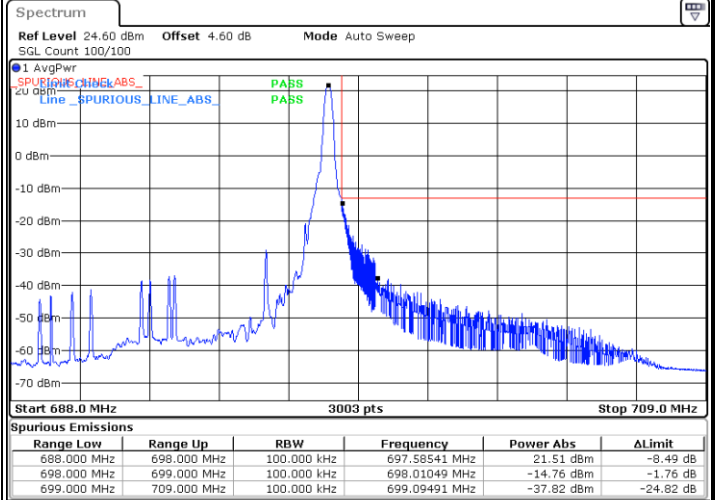
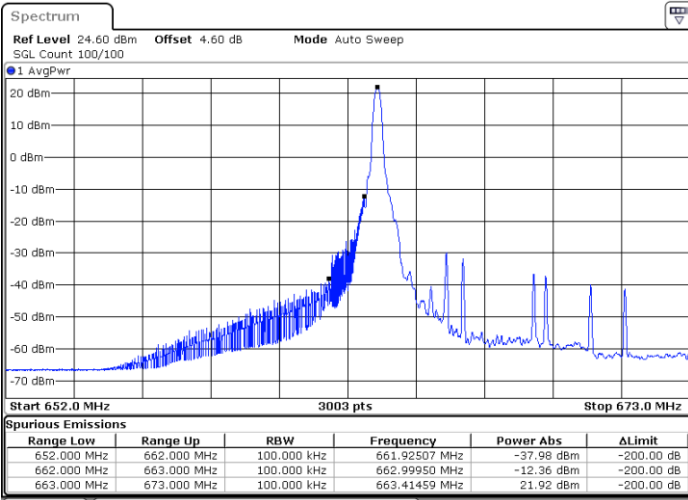




FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

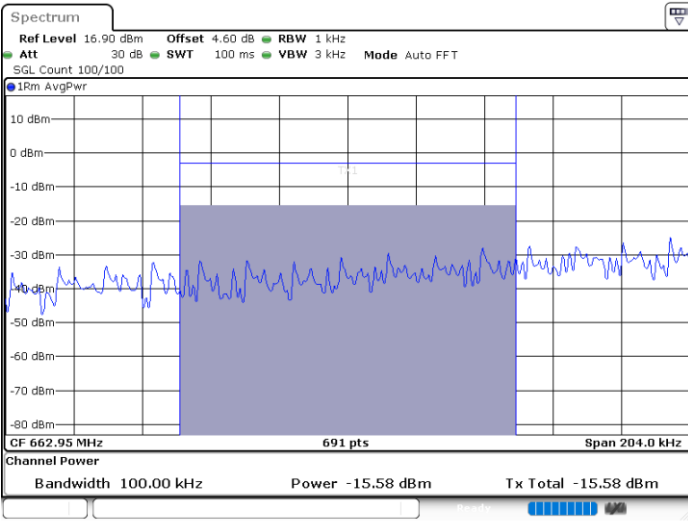
Highest Band Edge / 1RBmax



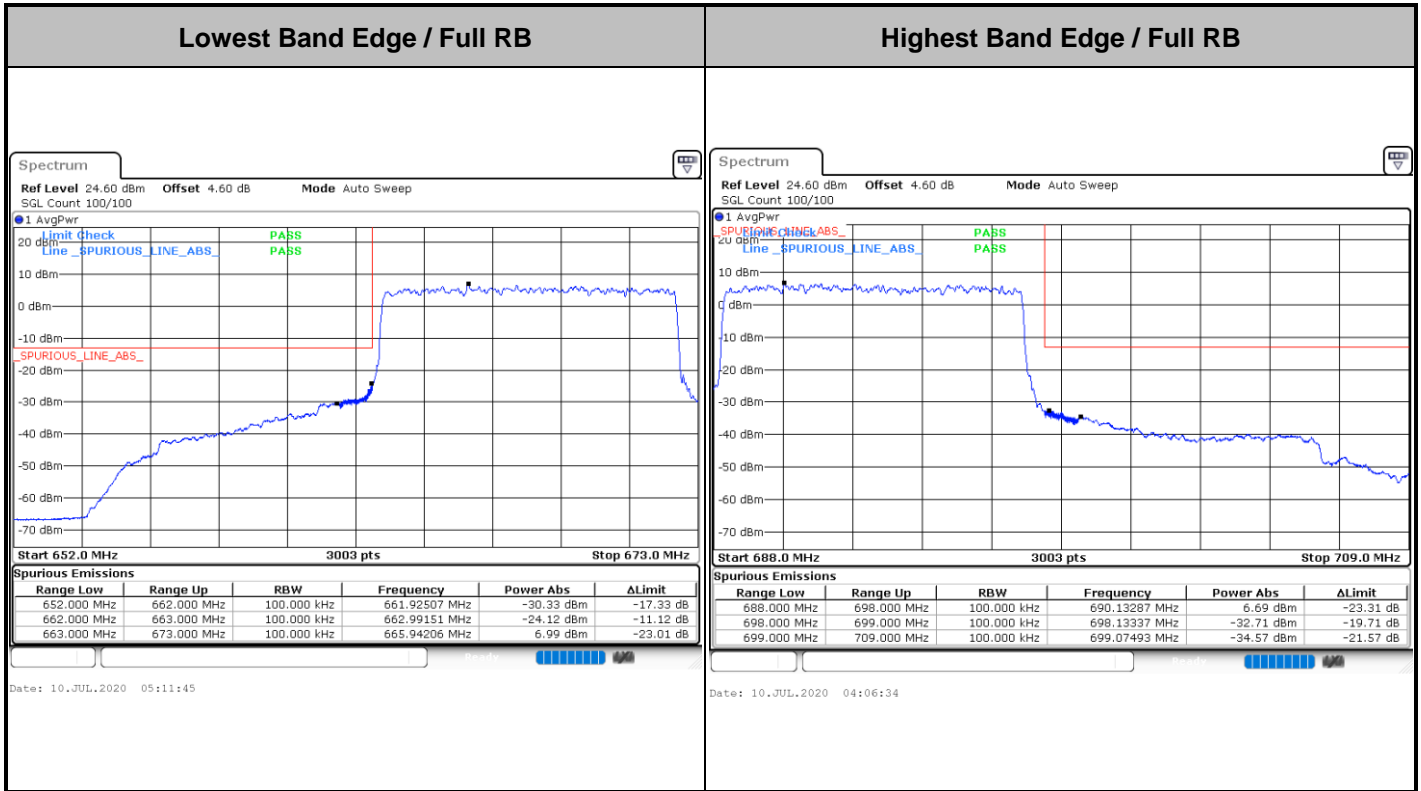
Date: 10.JUL.2020 05:12:10

Date: 10.JUL.2020 04:27:13

Channel Power -15.58dBm < -13dBm (Pass)



Date: 10.JUL.2020 05:04:53

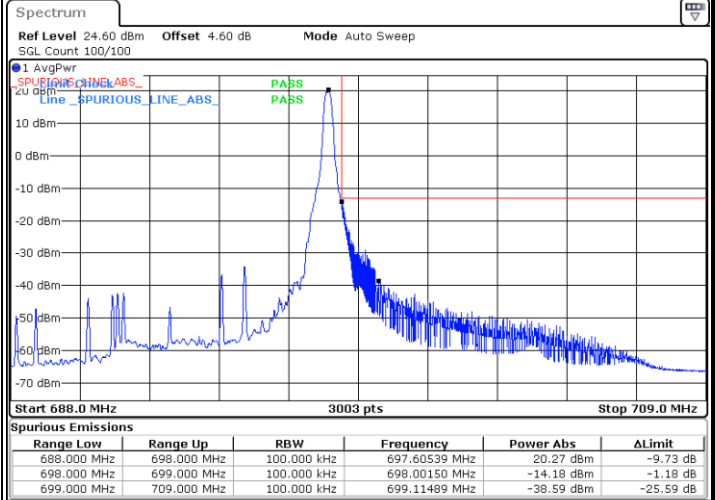
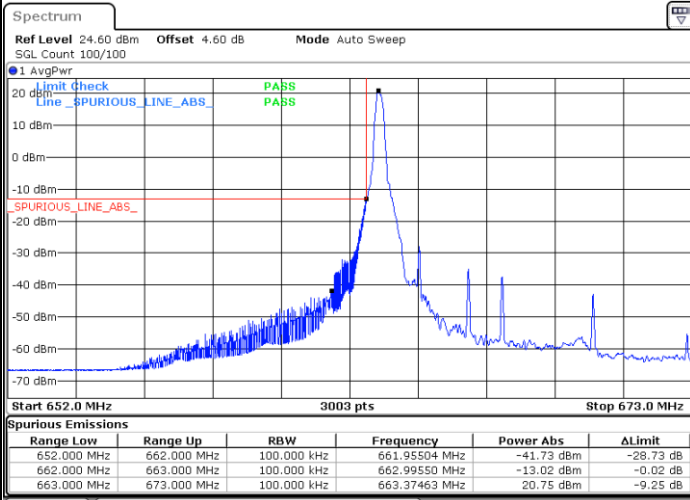




FR1 n71 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

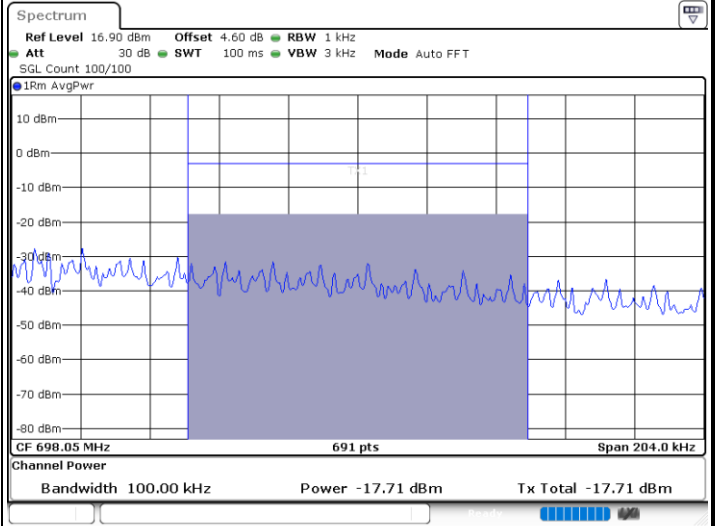
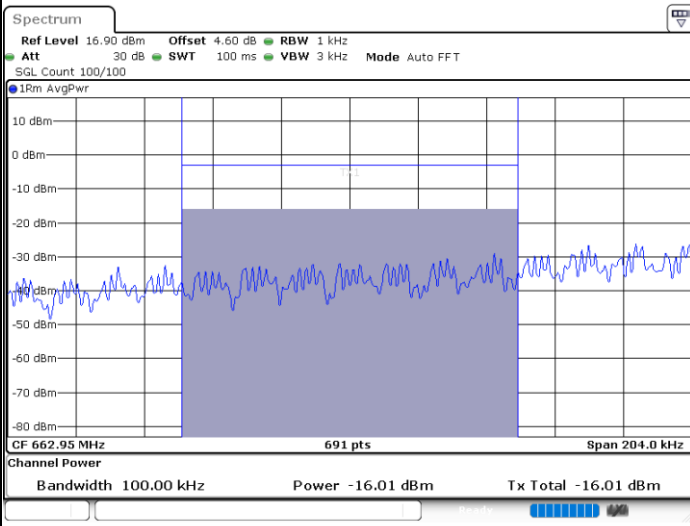


Date: 10.JUL.2020 05:13:44

Date: 10.JUL.2020 04:29:46

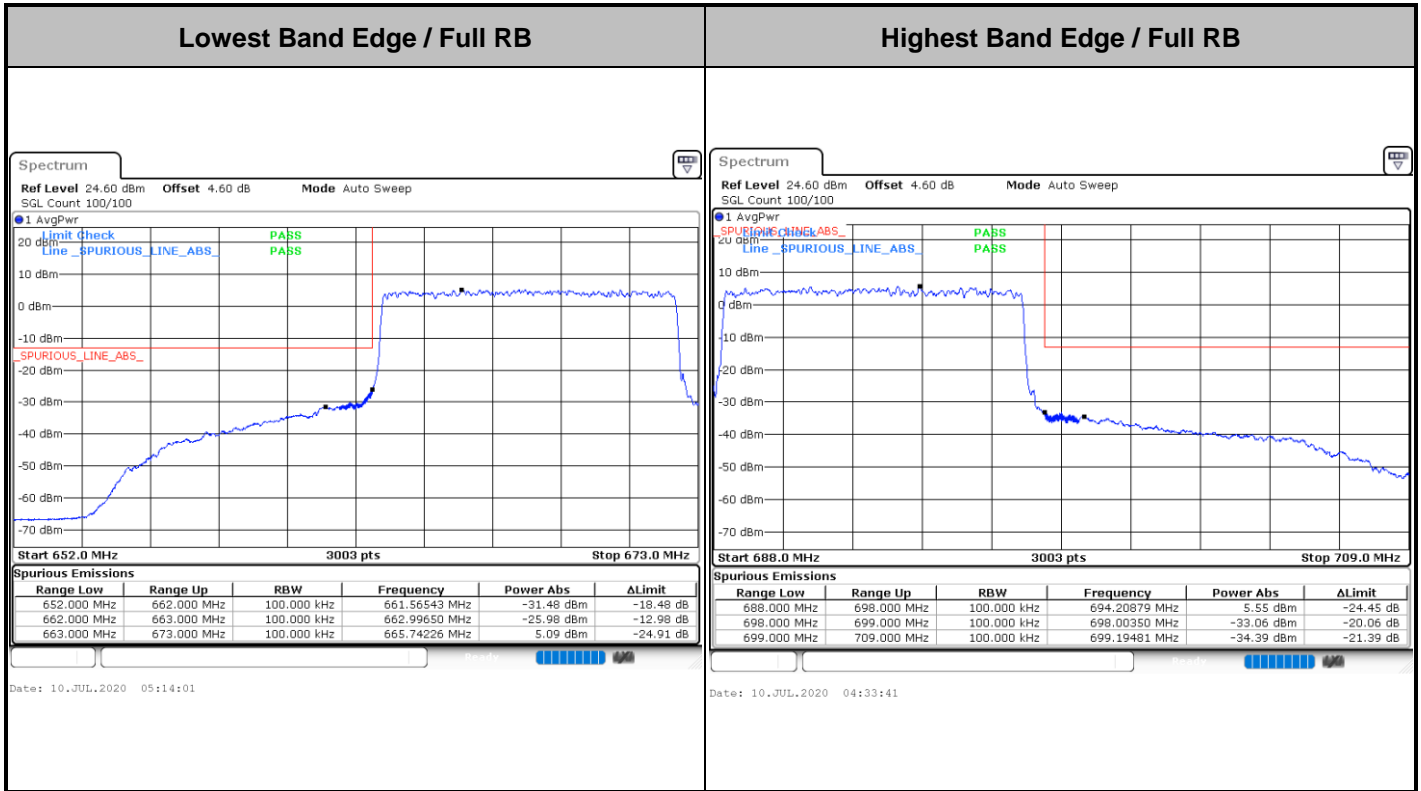
Channel Power -16.01dBm < -13dBm (Pass)

Channel Power -17.71dBm < -13dBm (Pass)



Date: 10.JUL.2020 05:15:58

Date: 10.JUL.2020 04:30:48

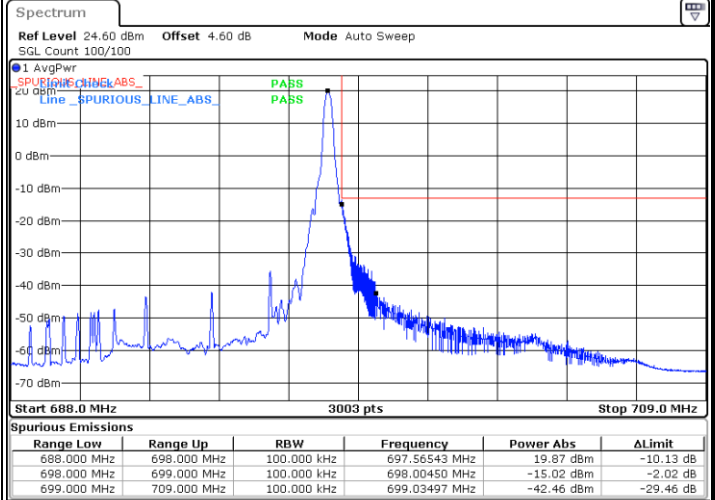
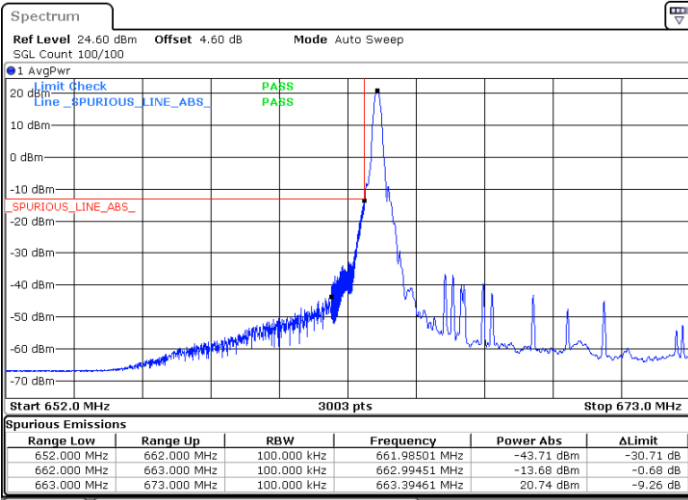




FR1 n71 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

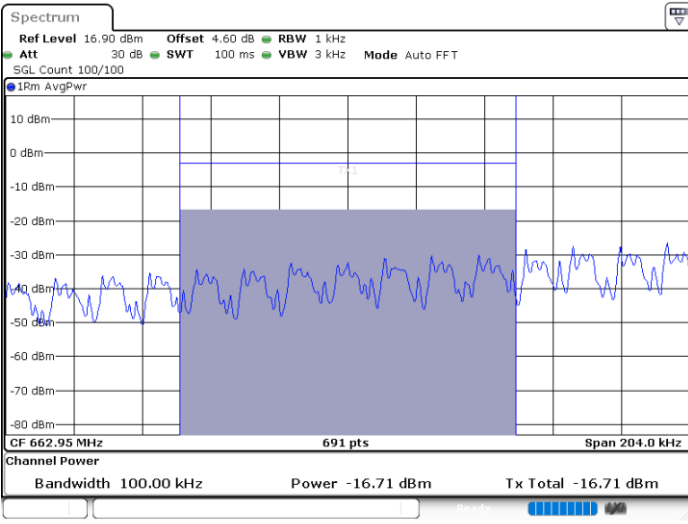
Highest Band Edge / 1RBmax



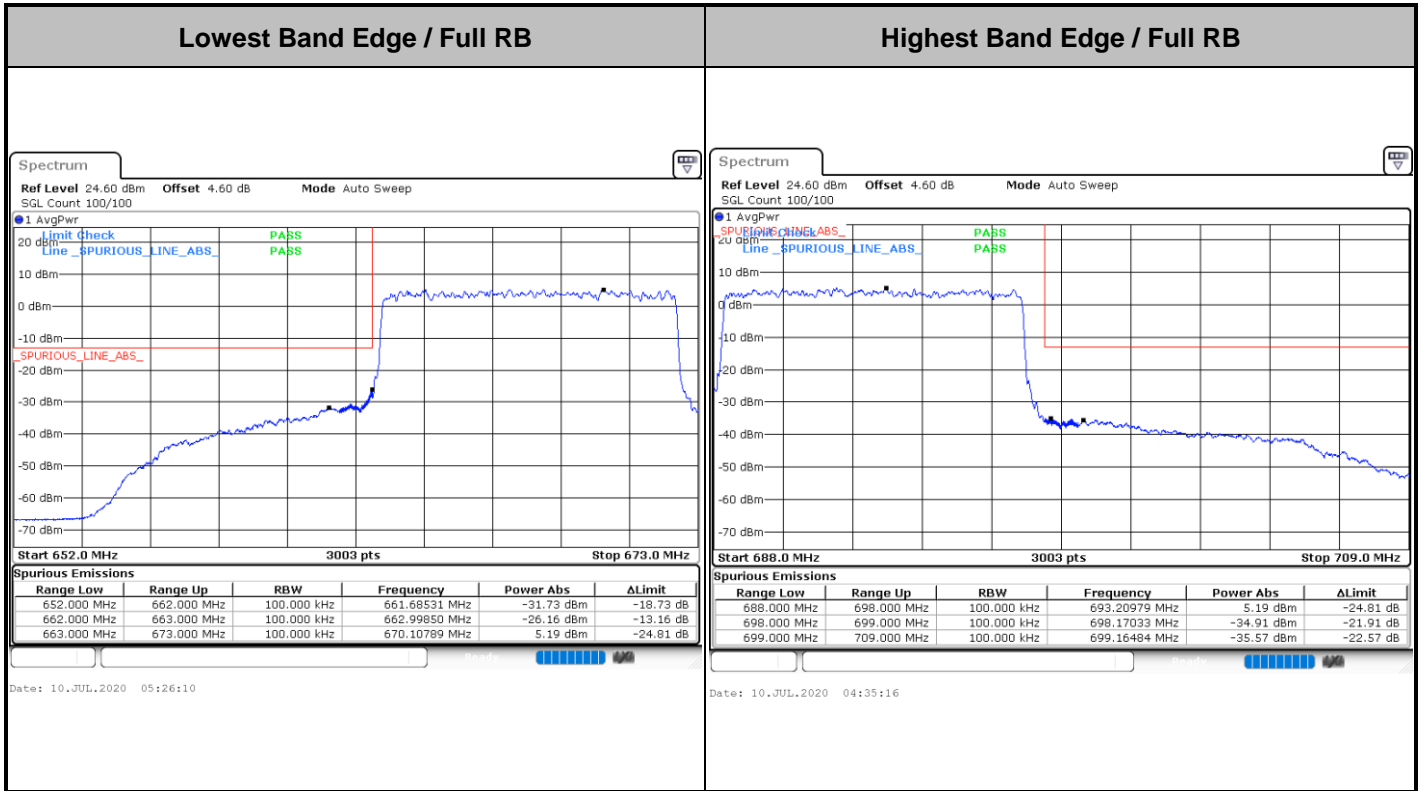
Date: 10.JUL.2020 05:19:01

Date: 10.JUL.2020 04:36:52

Channel Power -16.71dBm < -13dBm (Pass)



Date: 10.JUL.2020 05:24:26



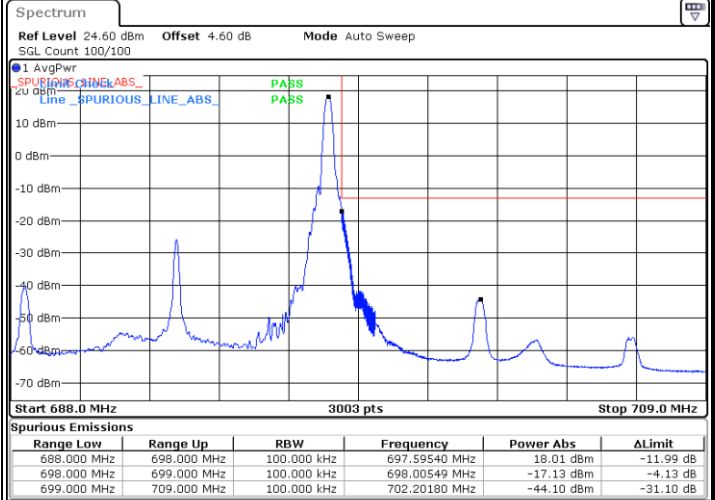
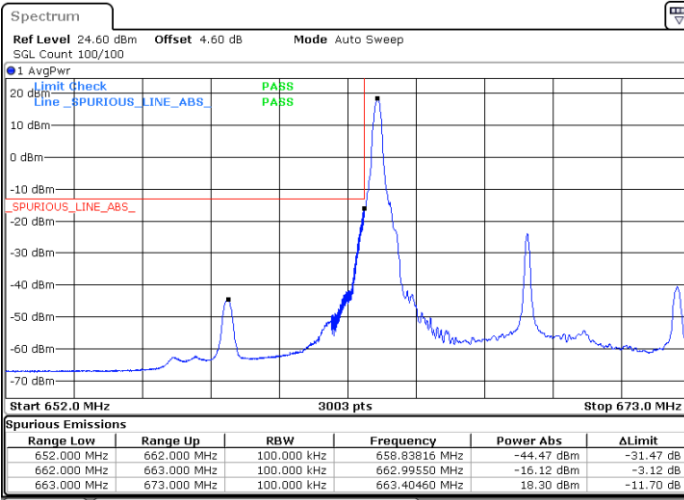




FR1 n71 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

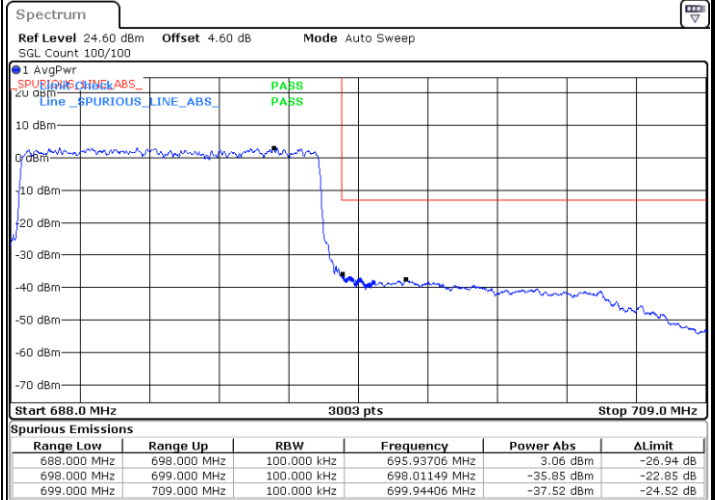
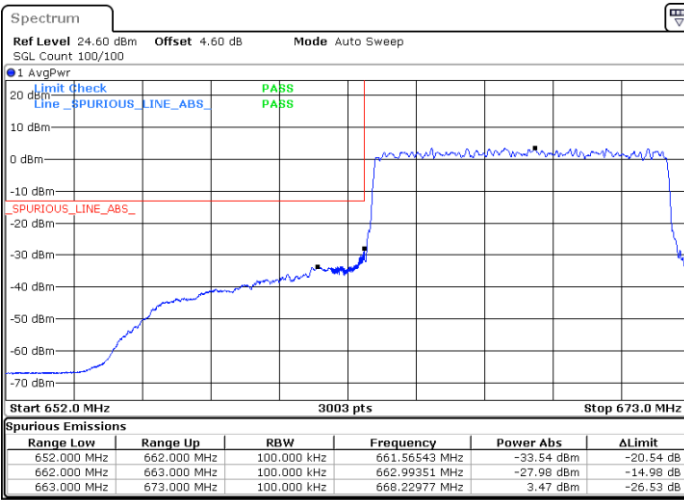


Date: 10.JUL.2020 05:29:00

Date: 10.JUL.2020 04:50:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JUL.2020 05:27:21

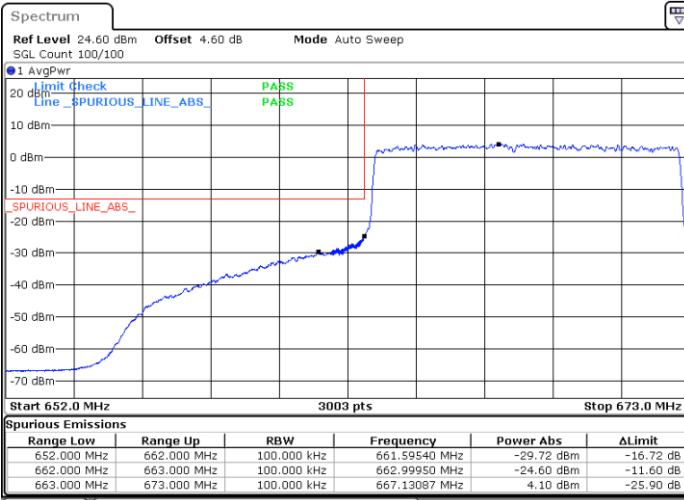
Date: 10.JUL.2020 04:51:40



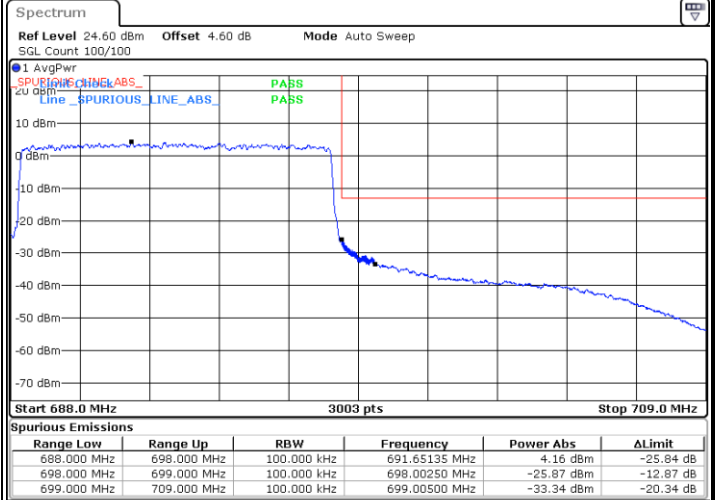
FR1 n71 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JUL.2020 04:55:40



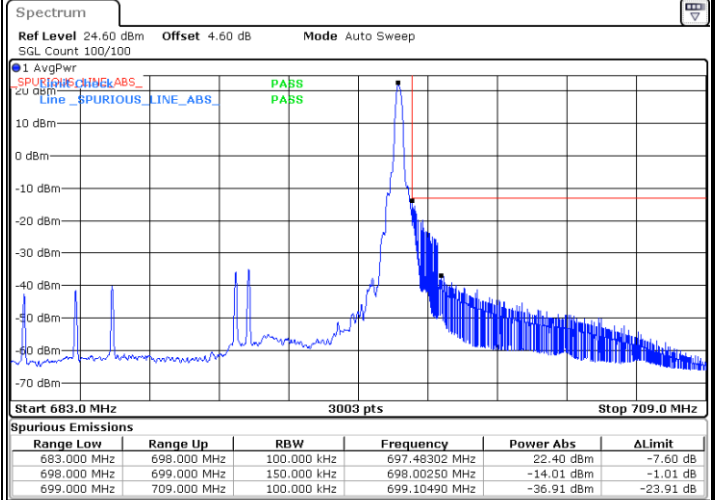
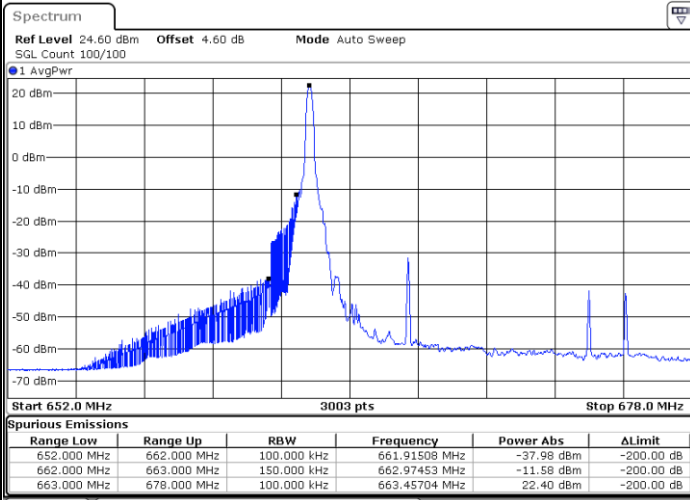
Date: 10.JUL.2020 04:54:04



FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

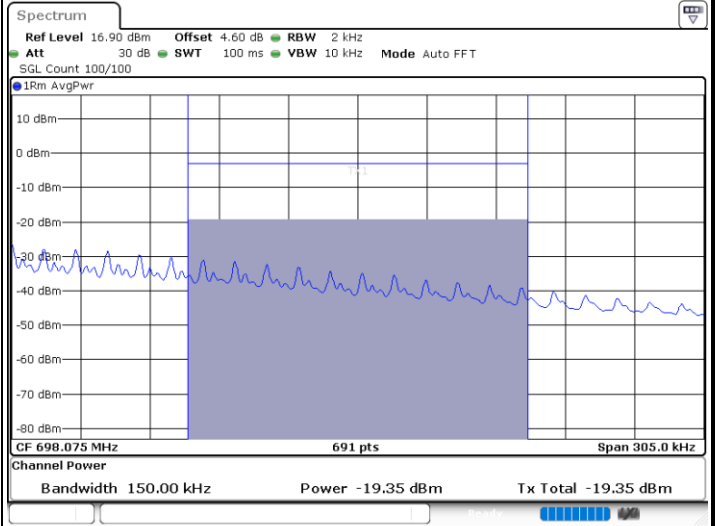
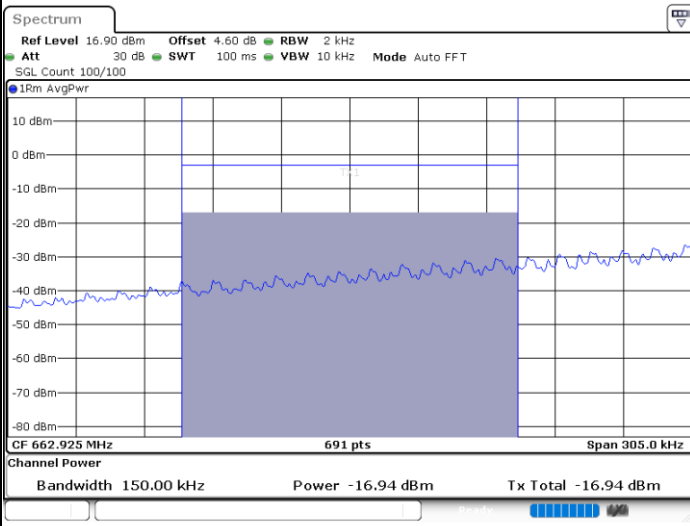


Date: 10.JUL.2020 07:15:26

Date: 10.JUL.2020 06:04:23

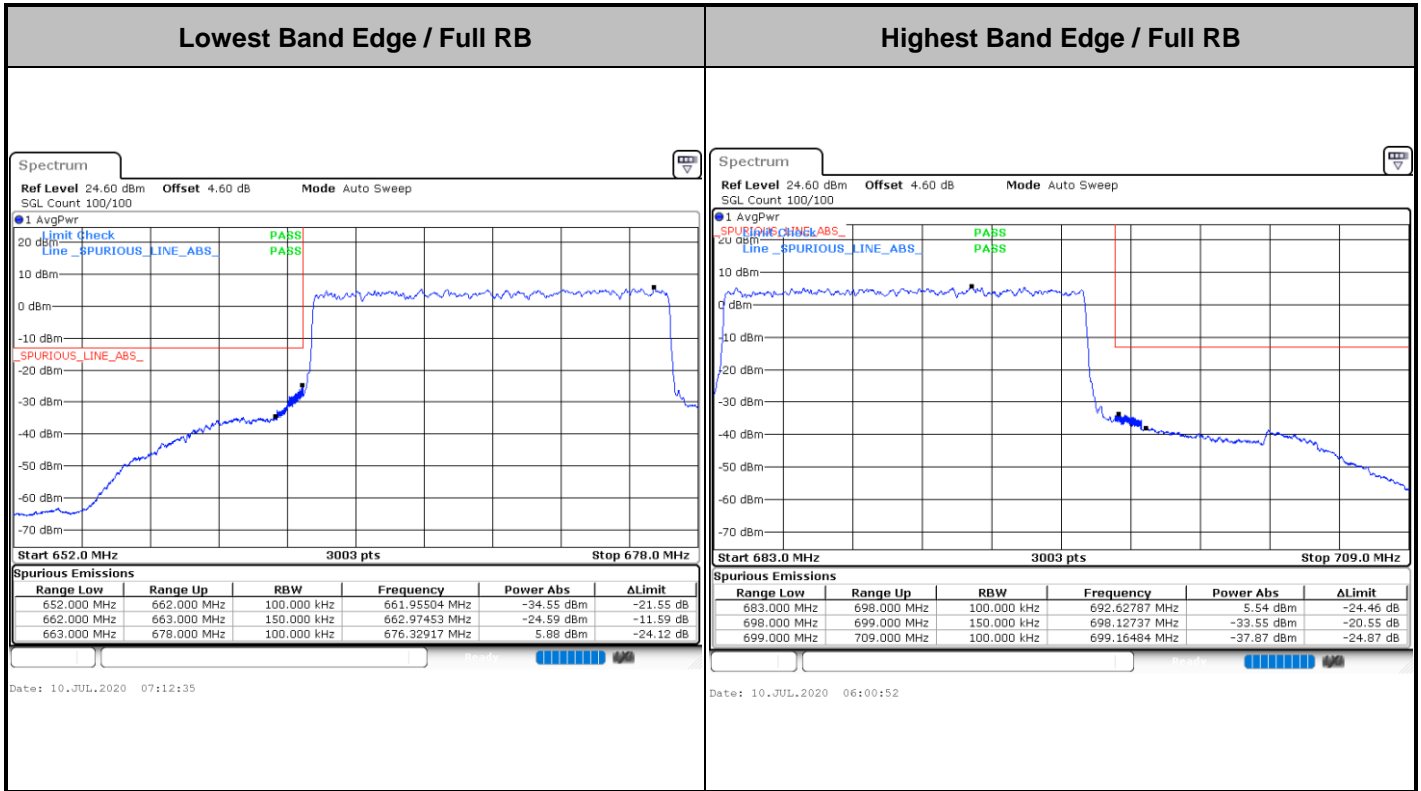
Channel Power -16.94dBm < -13dBm (Pass)

Channel Power -19.35dBm < -13dBm (Pass)



Date: 10.JUL.2020 07:28:50

Date: 10.JUL.2020 06:28:22

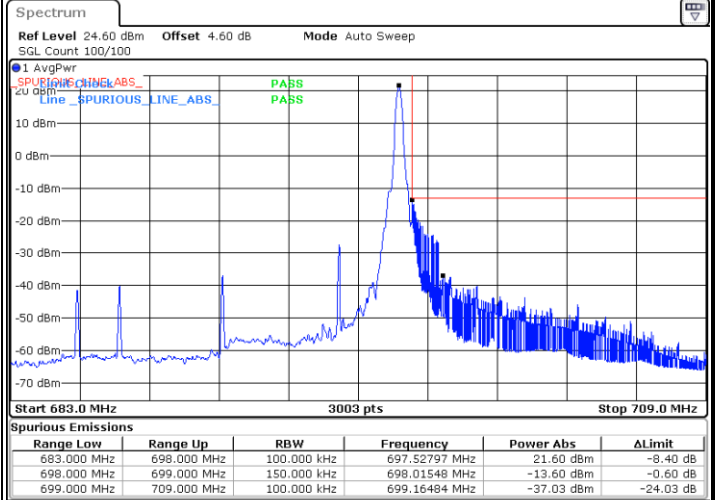
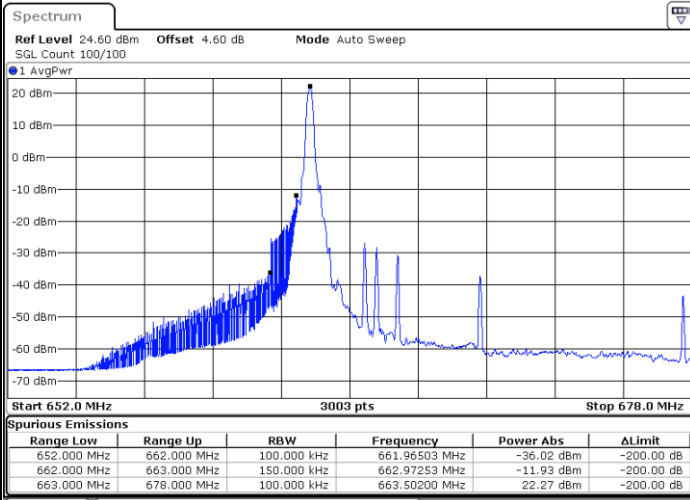




FR1 n71 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

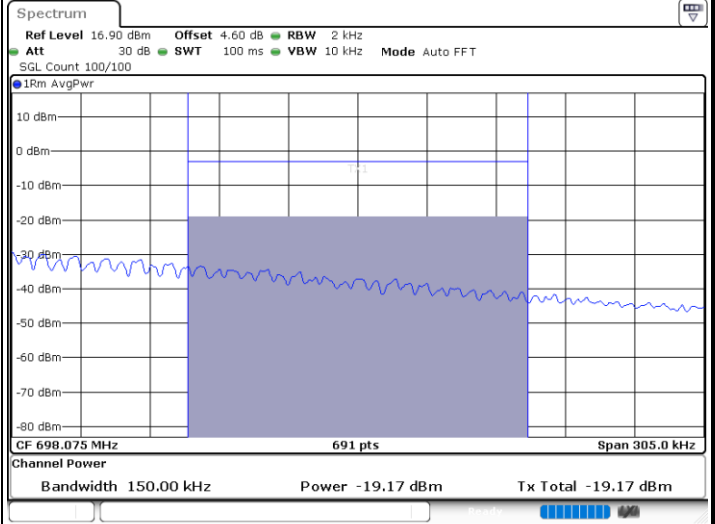
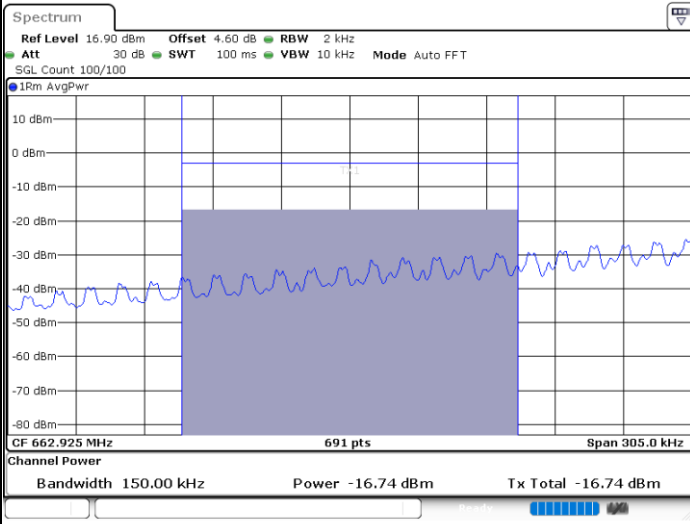


Date: 10.JUL.2020 07:18:57

Date: 10.JUL.2020 06:31:25

Channel Power -16.74dBm < -13dBm (Pass)

Channel Power -19.17dBm < -13dBm (Pass)



Date: 10.JUL.2020 07:27:51

Date: 10.JUL.2020 07:01:08

