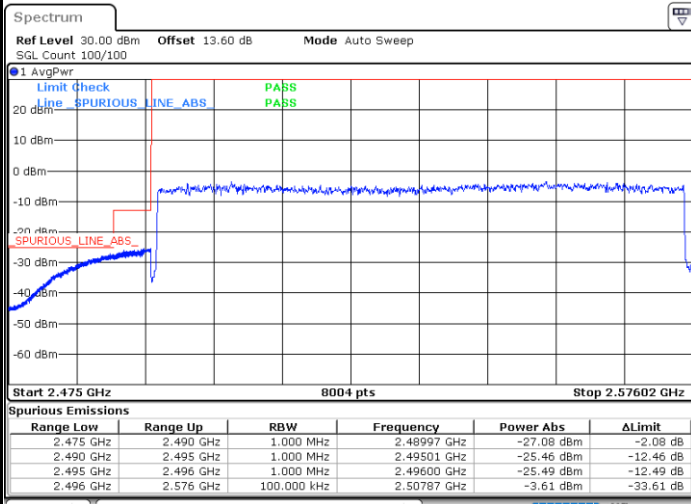




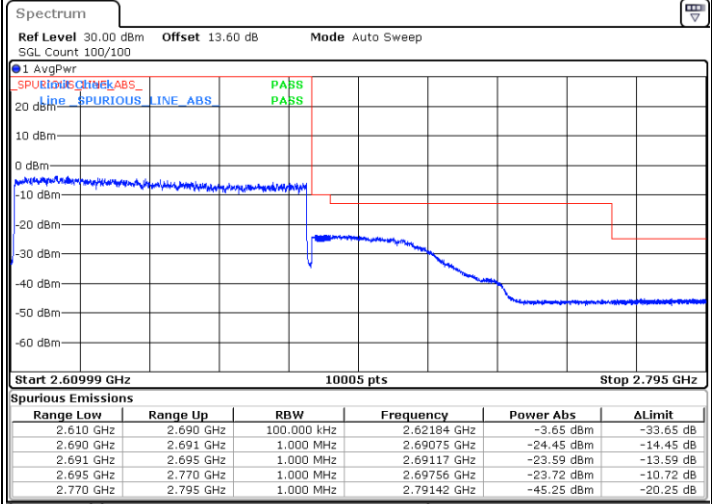
FR1 n41 / 80MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:49:15



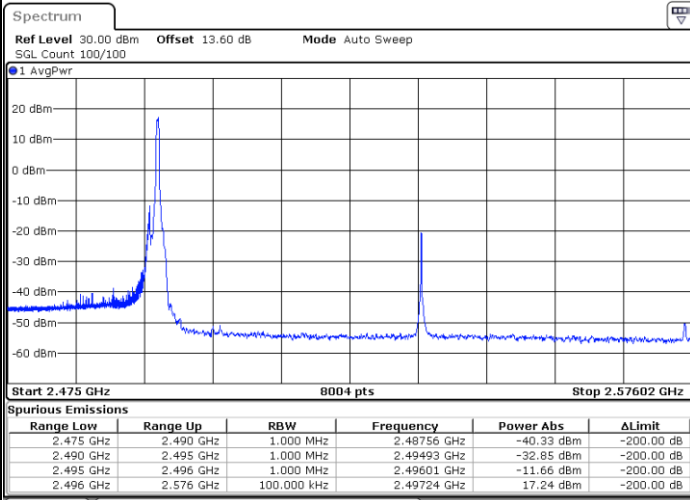
Date: 1.OCT.2020 09:08:05



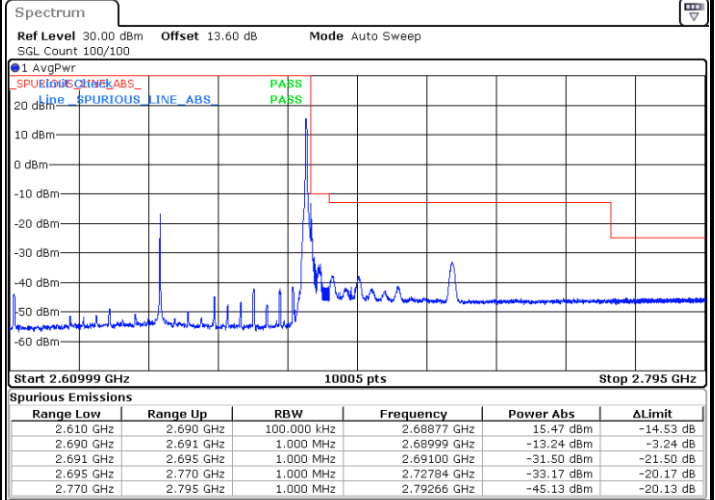
FR1 n41 / 80MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

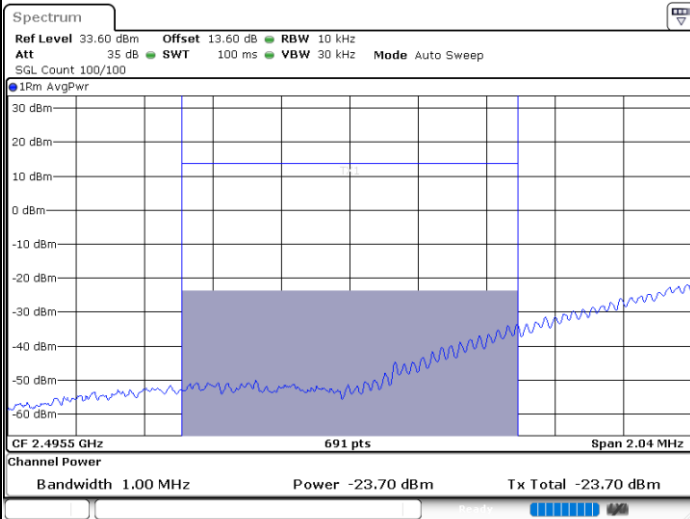


Date: 1.OCT.2020 08:47:52



Date: 1.OCT.2020 09:09:28

Channel Power -23.70dBm < -13dBm (Pass)



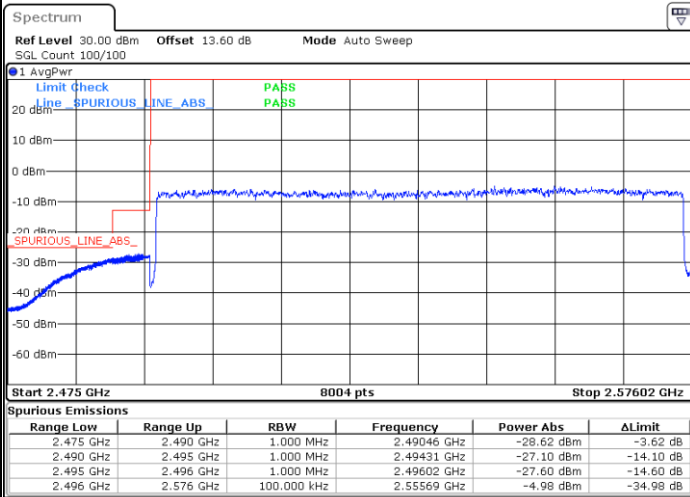
Date: 2.OCT.2020 16:19:20



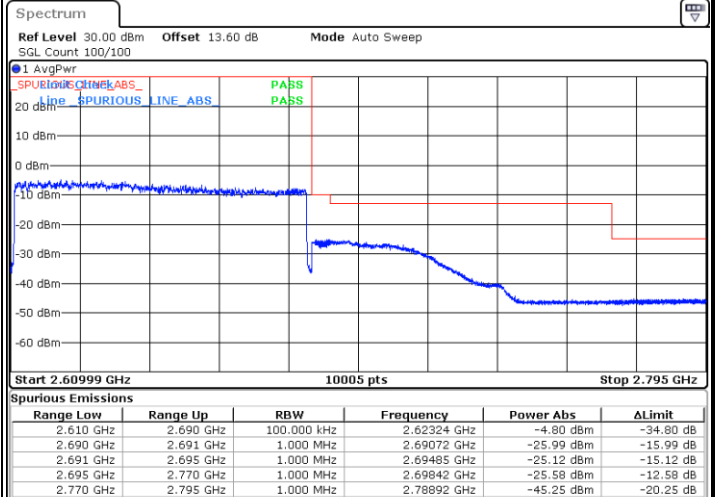
FR1 n41 / 80MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:48:32



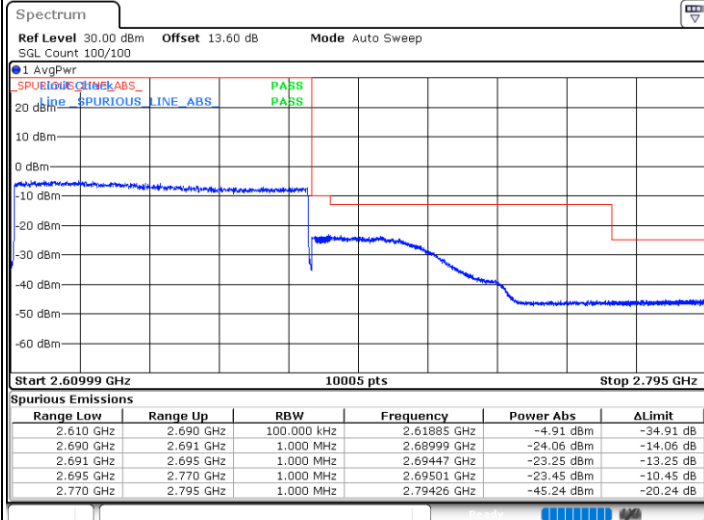
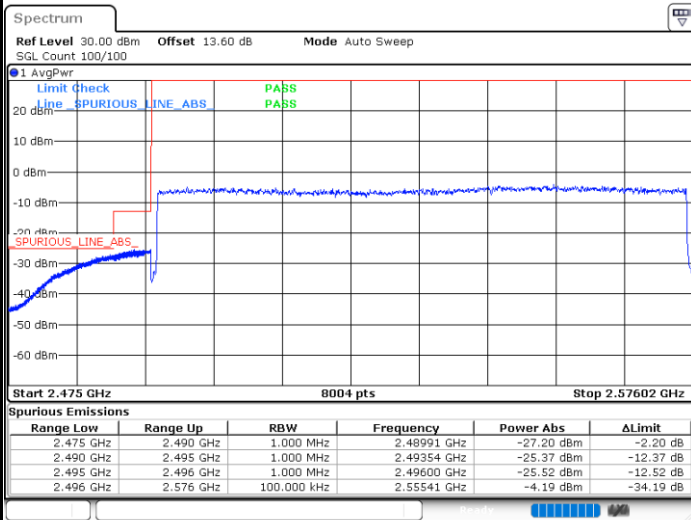
Date: 1.OCT.2020 09:08:48



FR1 n41 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:56:03

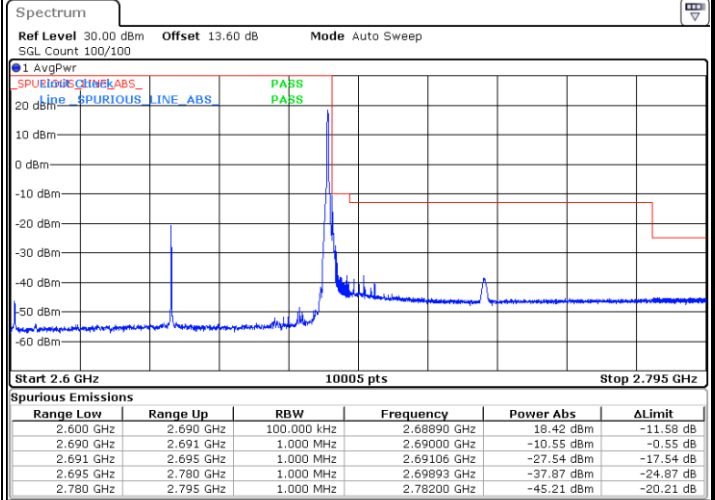
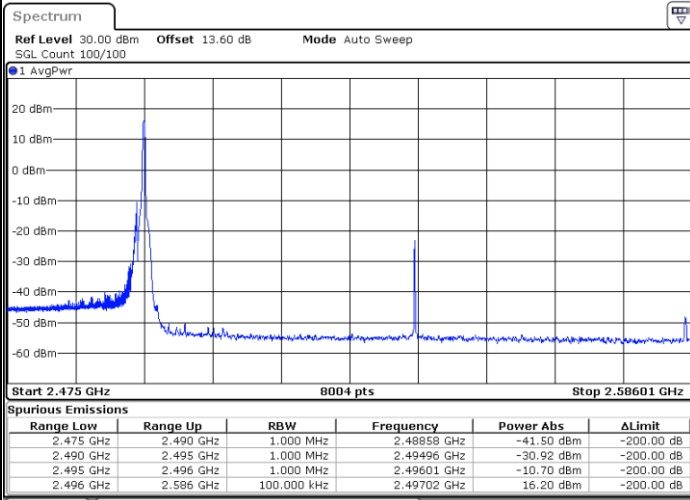
Date: 1.OCT.2020 09:03:28



FR1 n41 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

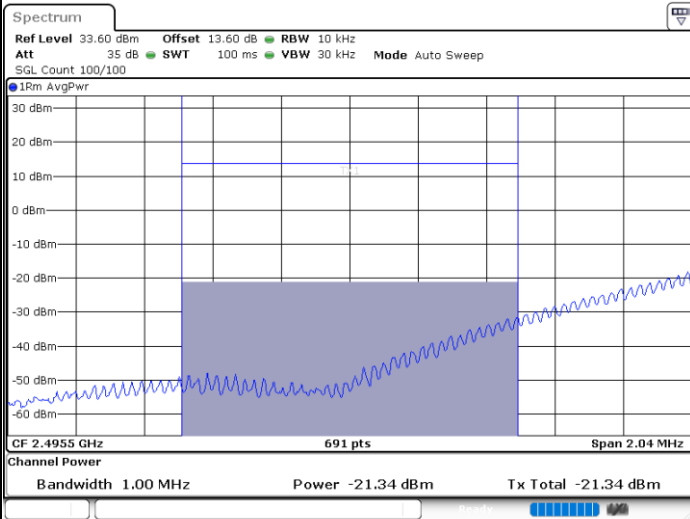
Highest Band Edge / 1RBmax



Date: 1.OCT.2020 08:32:04

Date: 1.OCT.2020 08:33:31

Channel Power -21.34dBm < -13dBm (Pass)



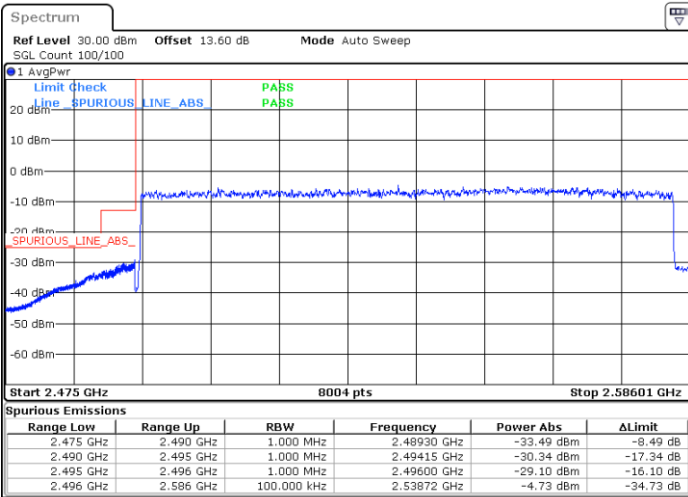
Date: 2.OCT.2020 16:30:20



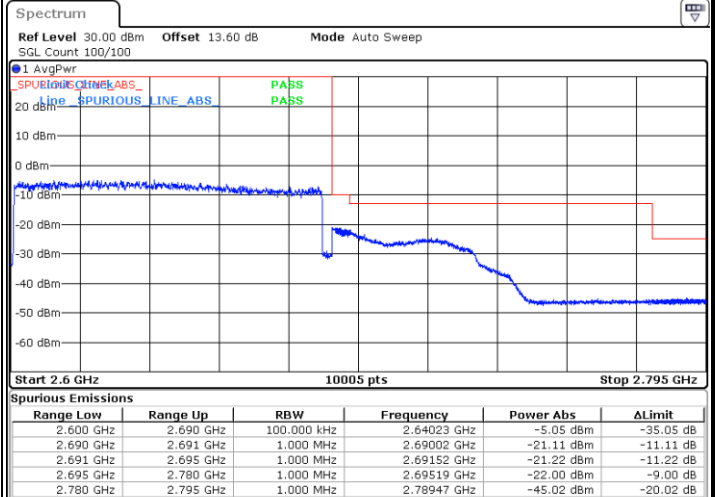
FR1 n41 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:31:01



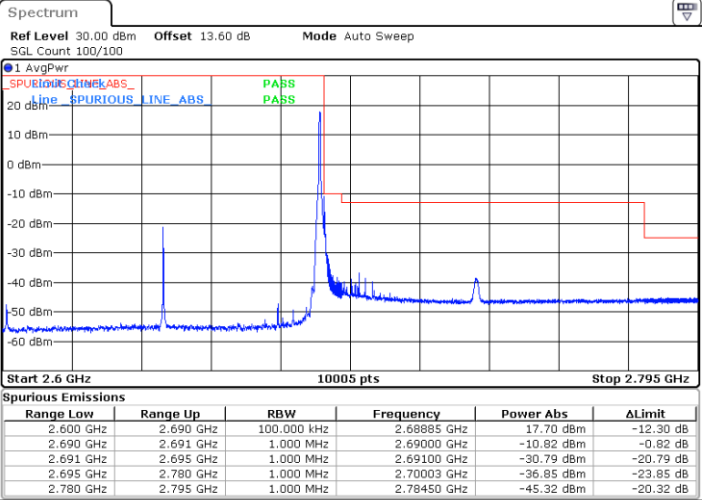
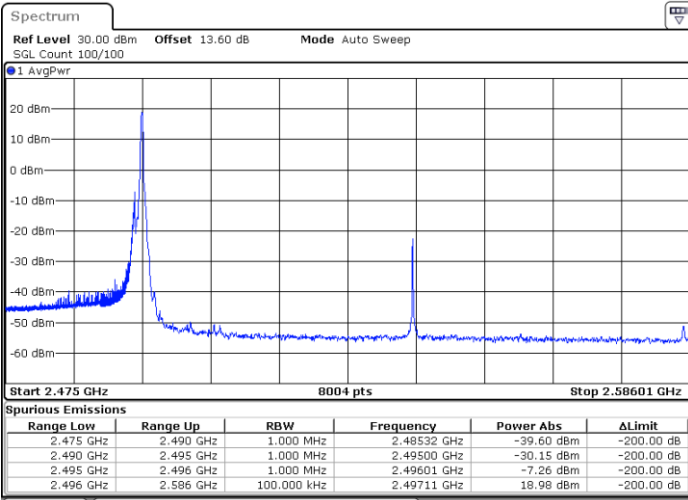
Date: 1.OCT.2020 08:33:54



FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

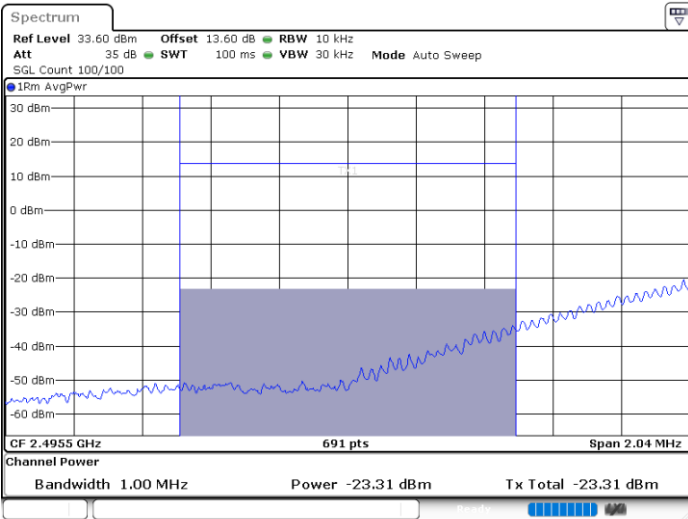
Highest Band Edge / 1RBmax



Date: 1.OCT.2020 08:29:34

Date: 1.OCT.2020 08:35:20

Channel Power -23.31dBm < -13dBm (Pass)



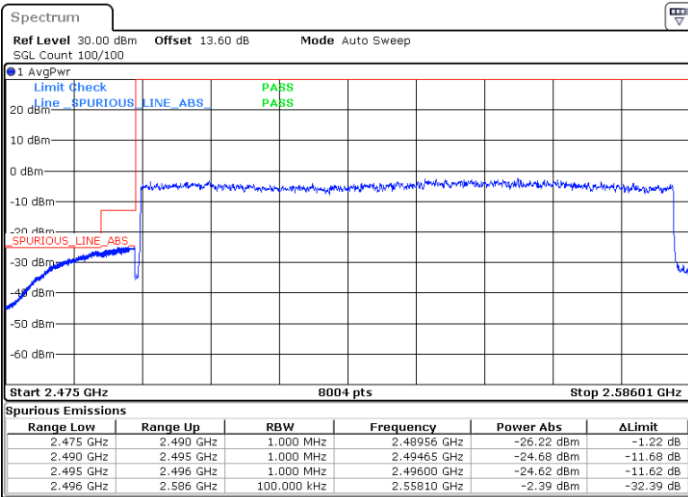
Date: 2.OCT.2020 16:28:11



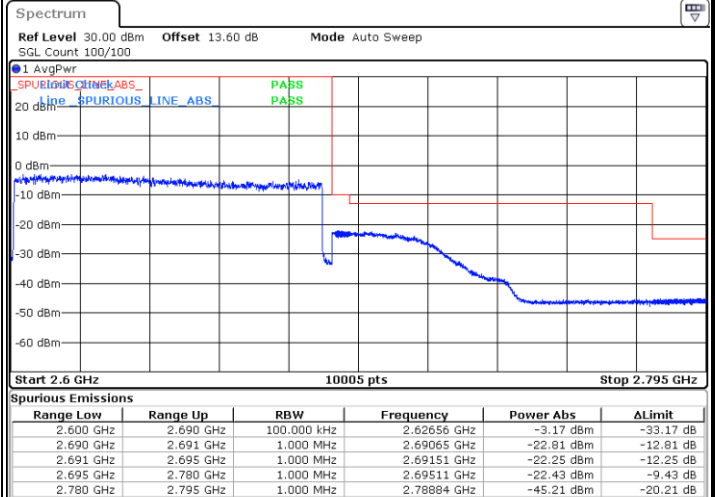
FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:26:51



Date: 1.OCT.2020 08:34:40

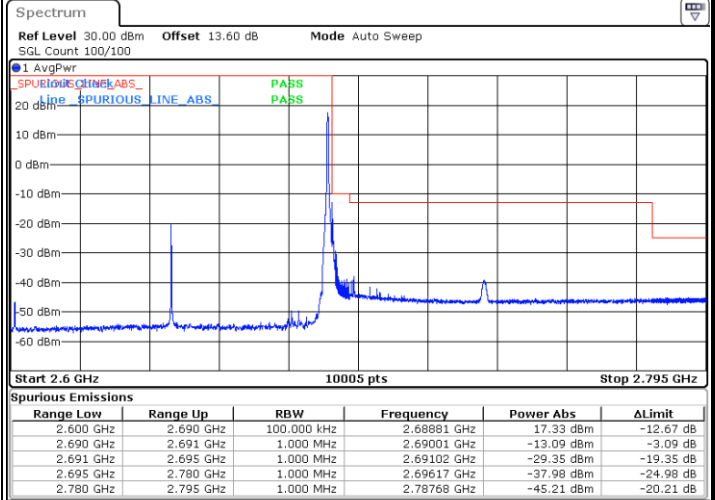
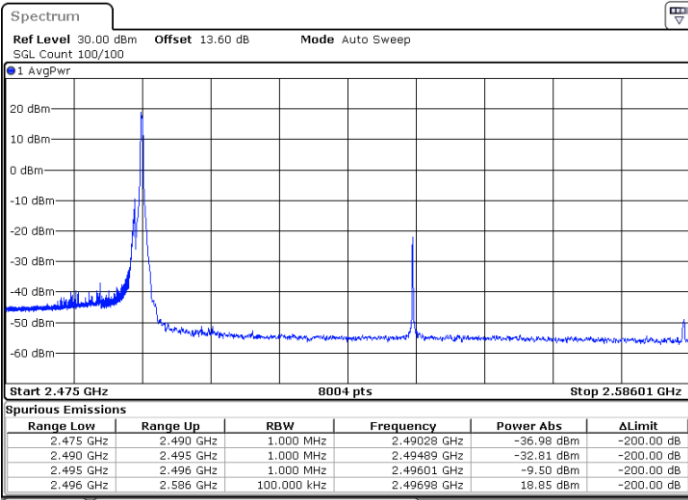




FR1 n41 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

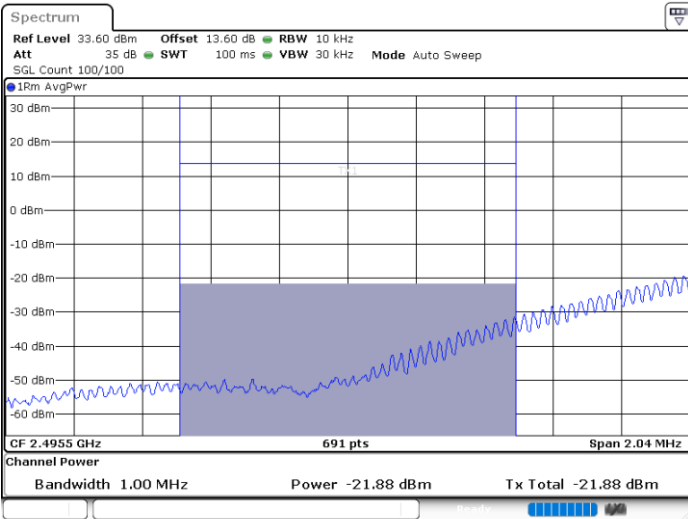
Highest Band Edge / 1RBmax



Date: 1.OCT.2020 08:25:44

Date: 1.OCT.2020 08:38:41

Channel Power -21.88dBm < -13dBm (Pass)



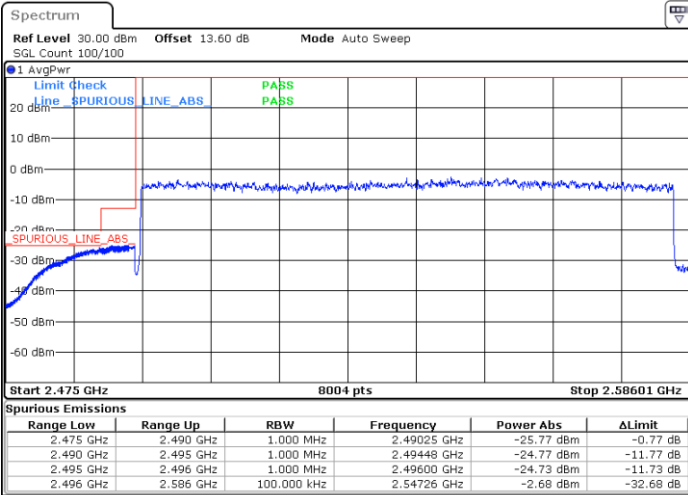
Date: 2.OCT.2020 16:28:44



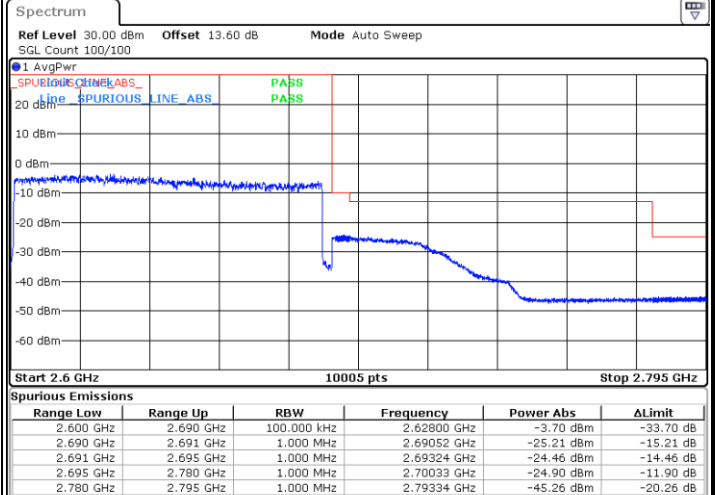
FR1 n41 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:26:19



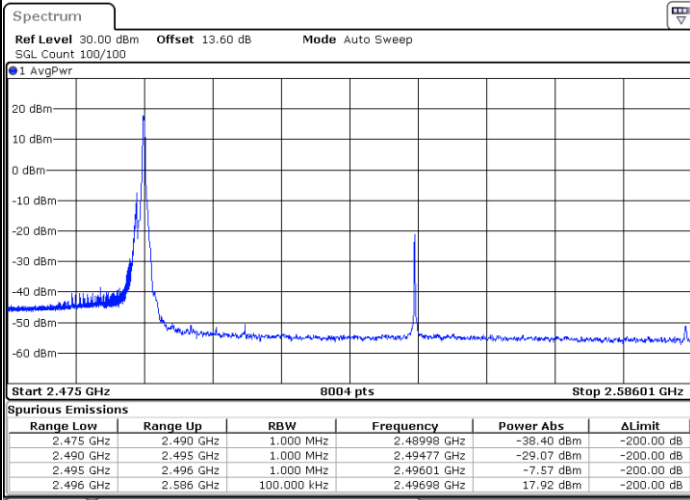
Date: 1.OCT.2020 08:38:05



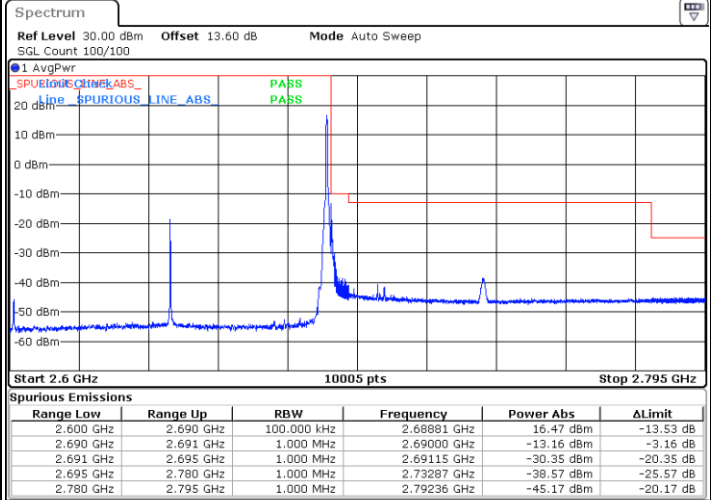
FR1 n41 / 90MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

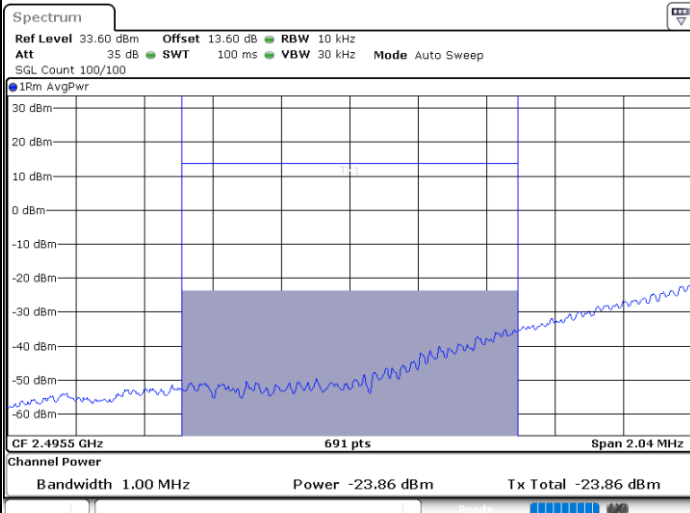


Date: 1.OCT.2020 08:23:39



Date: 1.OCT.2020 08:39:29

Channel Power -23.86dBm < -13dBm (Pass)



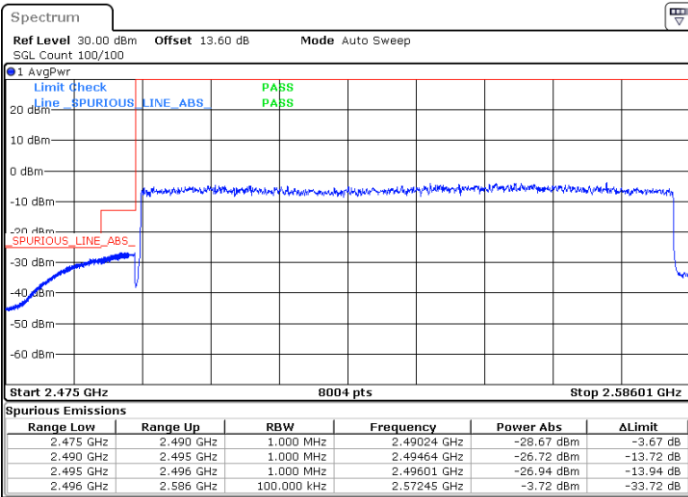
Date: 2.OCT.2020 16:29:27



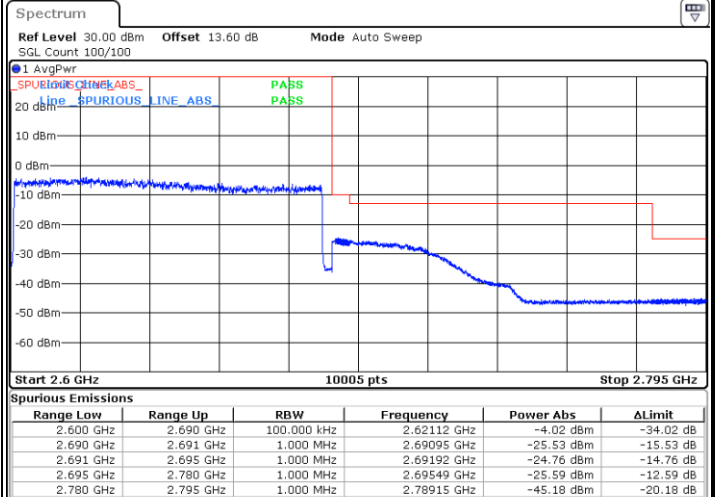
FR1 n41 / 90MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:22:13



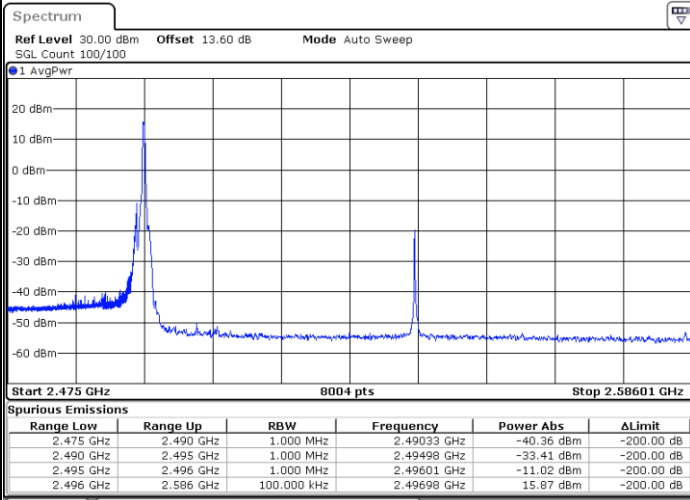
Date: 1.OCT.2020 08:40:08



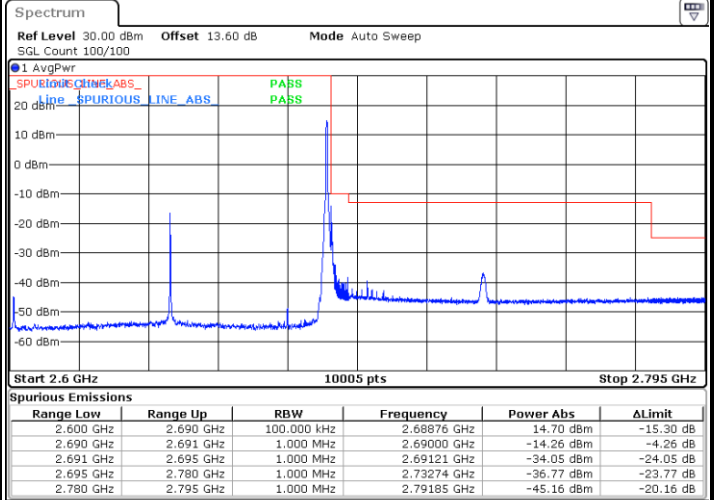
FR1 n41 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

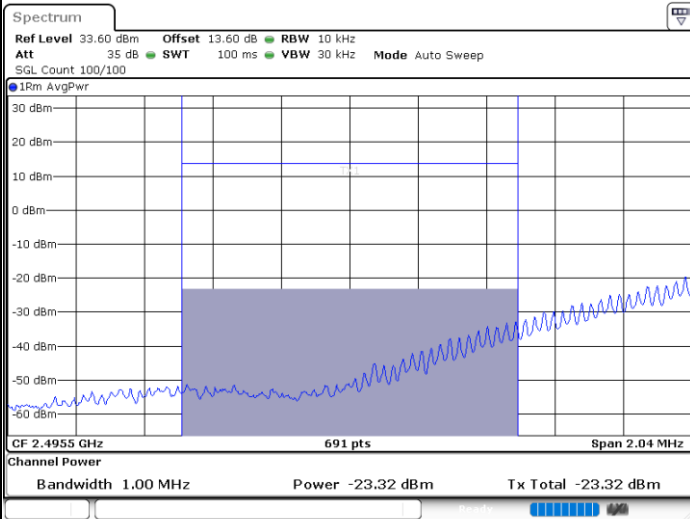


Date: 1.OCT.2020 08:18:38



Date: 1.OCT.2020 08:41:42

Channel Power -23.32dBm < -13dBm (Pass)



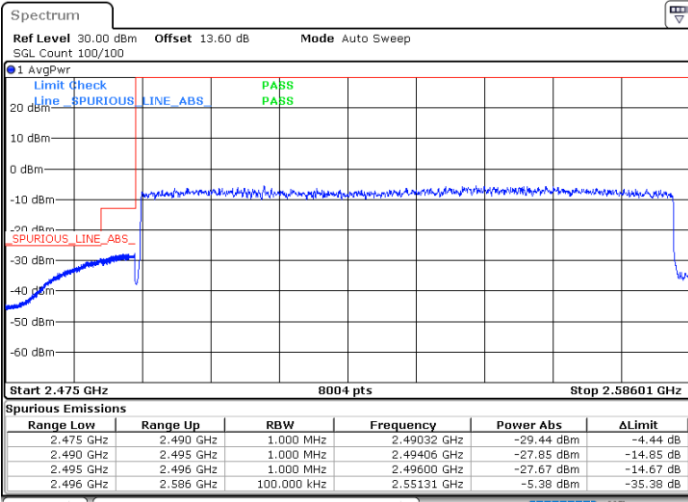
Date: 2.OCT.2020 16:29:52



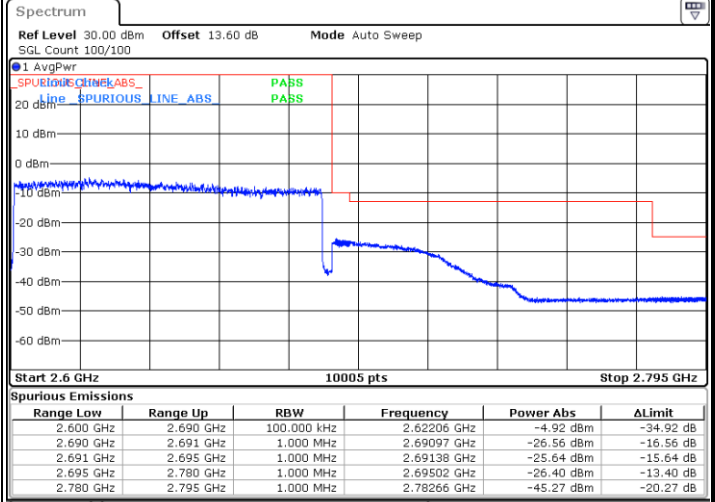
FR1 n41 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:21:43



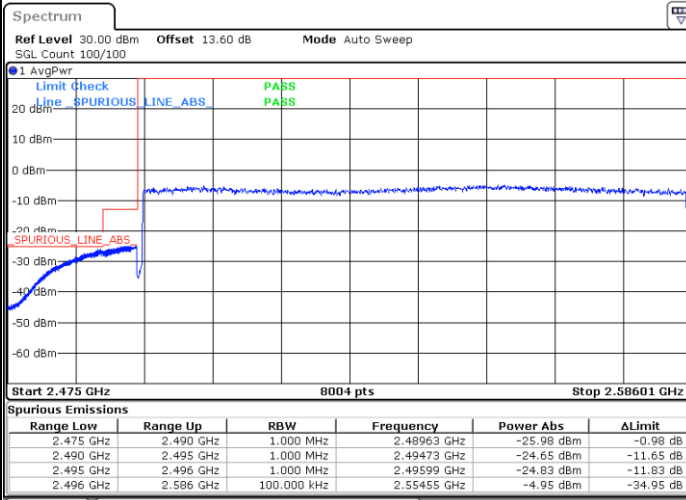
Date: 1.OCT.2020 08:41:00



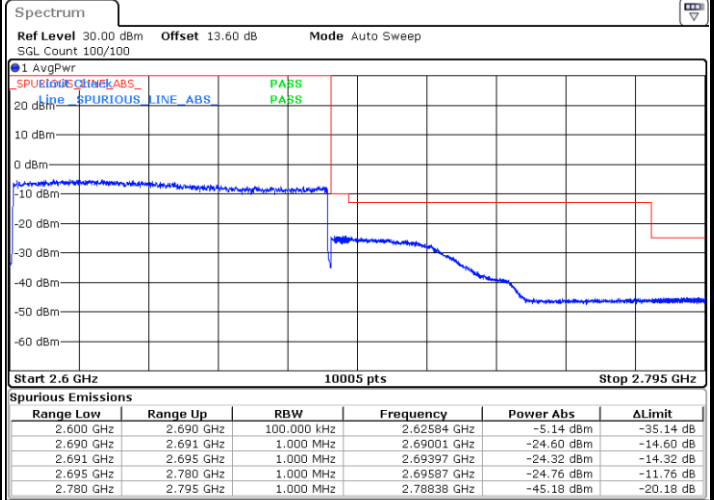
FR1 n41 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 08:30:21



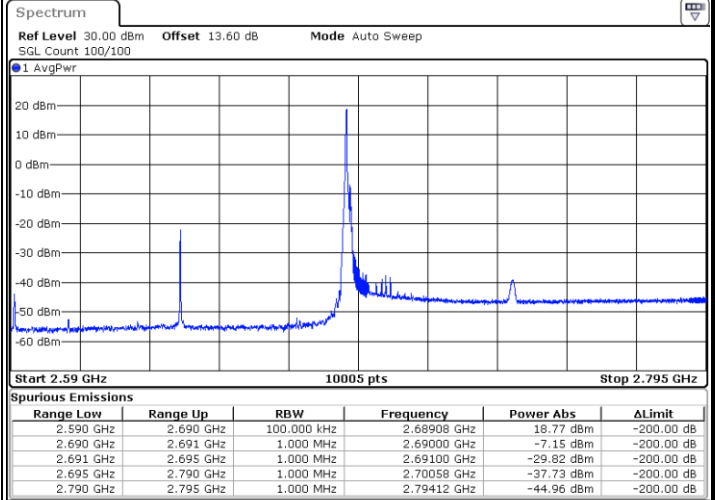
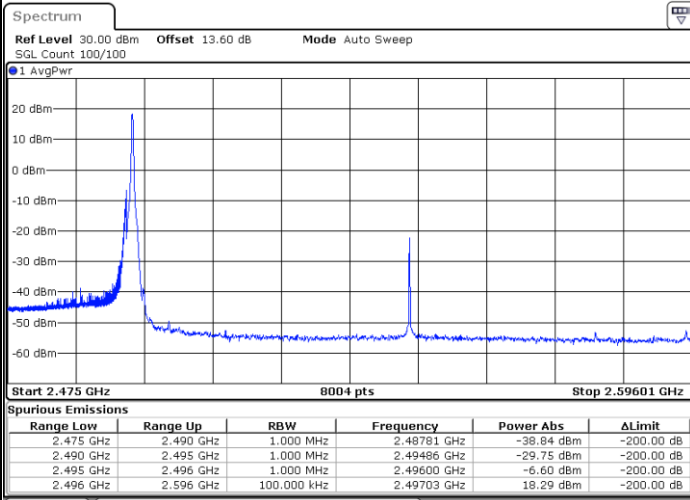
Date: 1.OCT.2020 08:37:21



FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

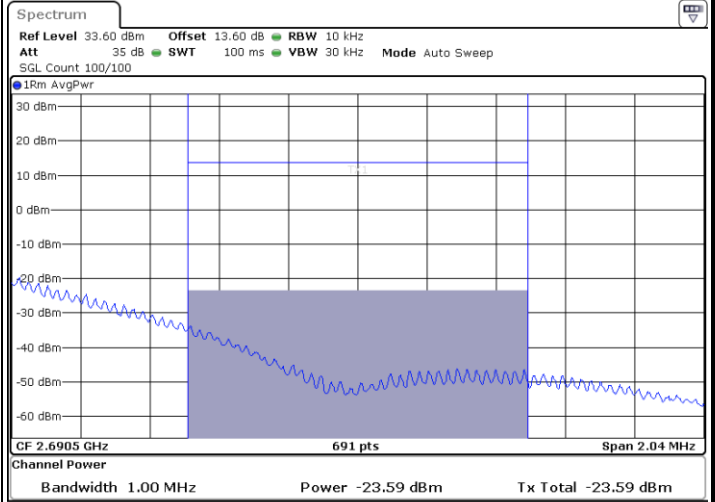
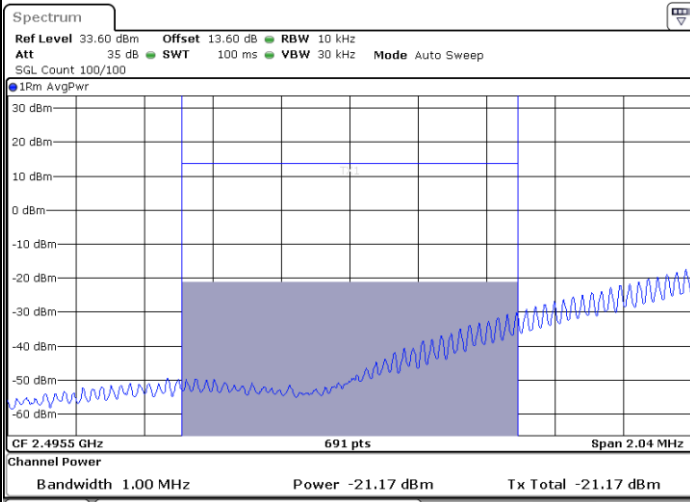


Date: 1.OCT.2020 07:43:31

Date: 1.OCT.2020 08:06:08

Channel Power -21.17dBm < -13dBm (Pass)

Channel Power -23.59dBm < -10dBm (Pass)



Date: 2.OCT.2020 16:31:41

Date: 2.OCT.2020 16:36:16

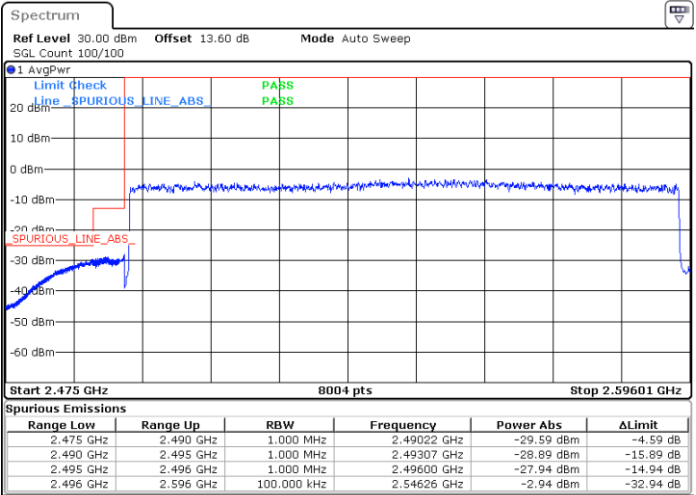




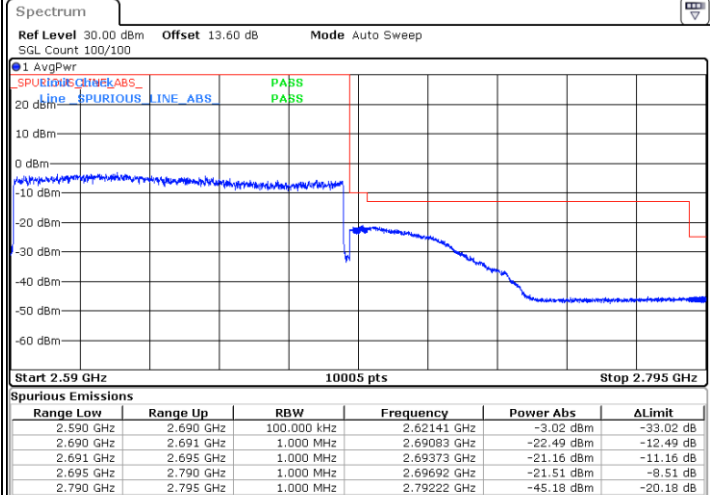
FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 07:44:58



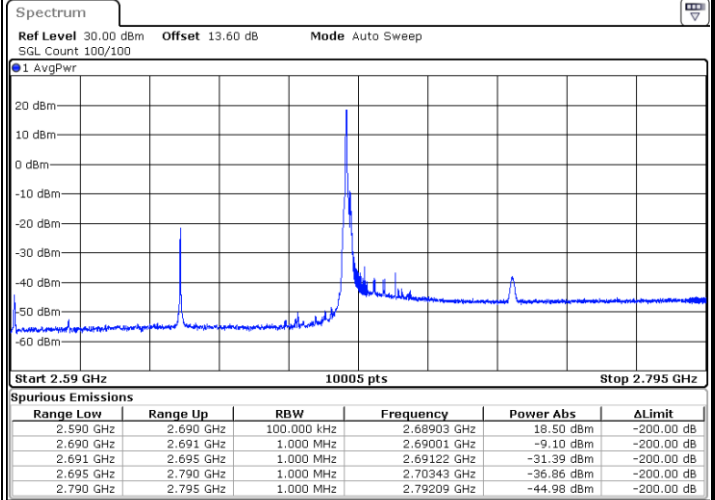
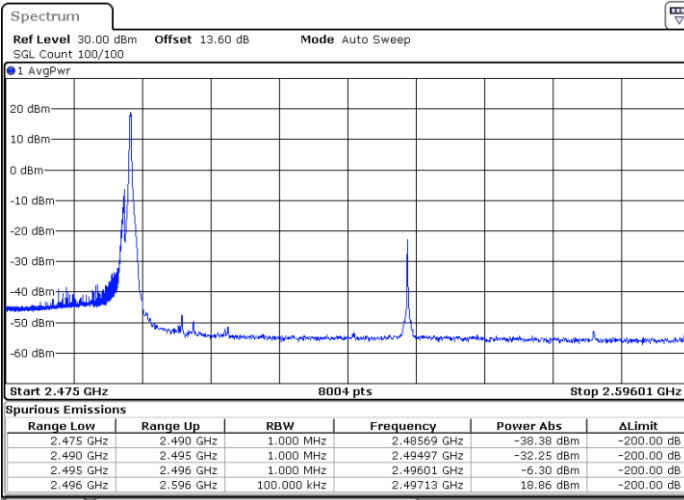
Date: 1.OCT.2020 08:03:10



FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

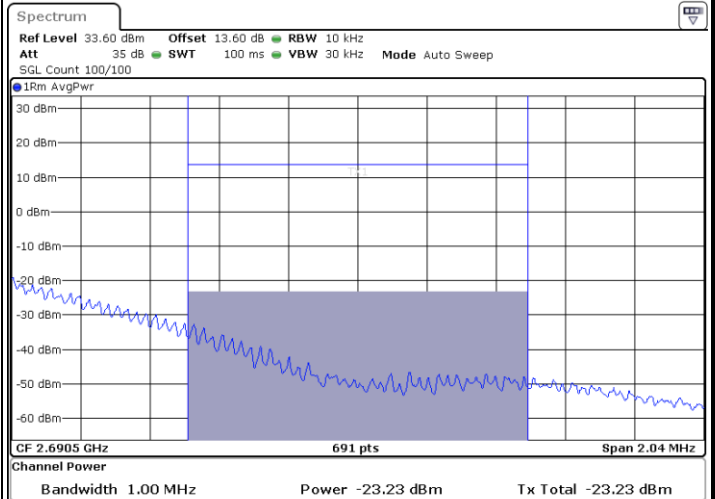
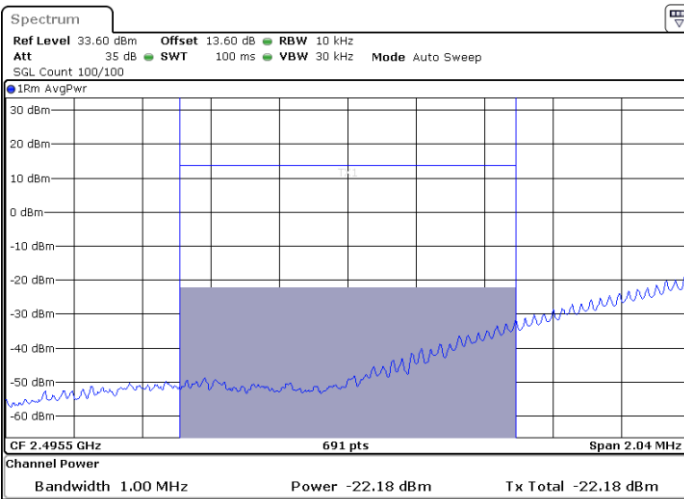


Date: 1.OCT.2020 07:48:10

Date: 1.OCT.2020 08:05:09

Channel Power -22.18dBm < -13dBm (Pass)

Channel Power -23.23dBm < -10dBm (Pass)



Date: 2.OCT.2020 16:32:15

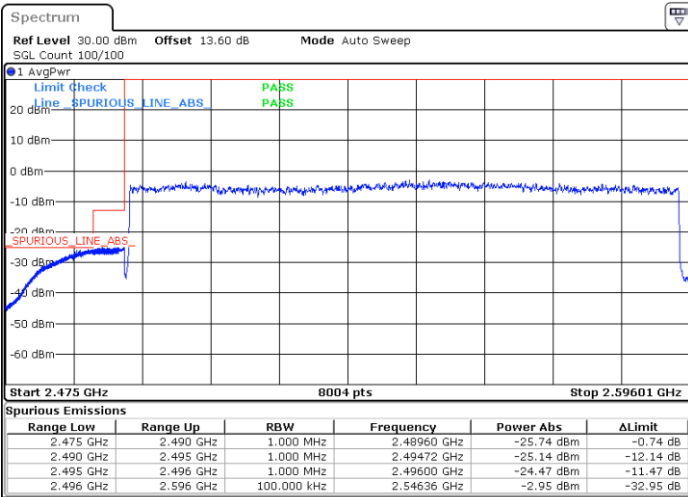
Date: 2.OCT.2020 16:36:49



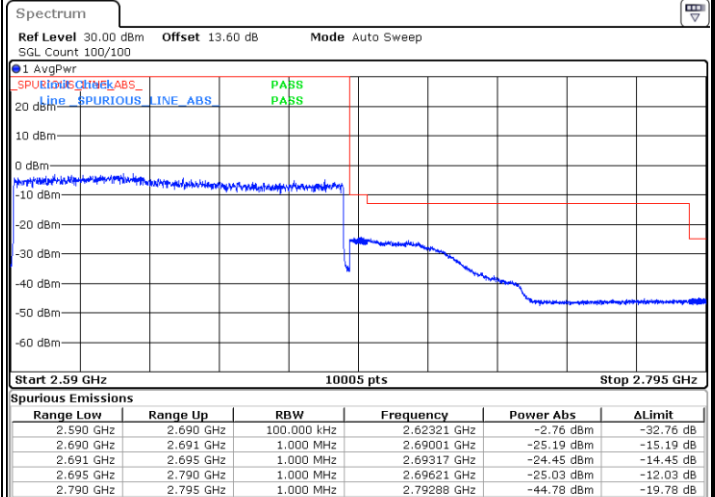
FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 07:45:48



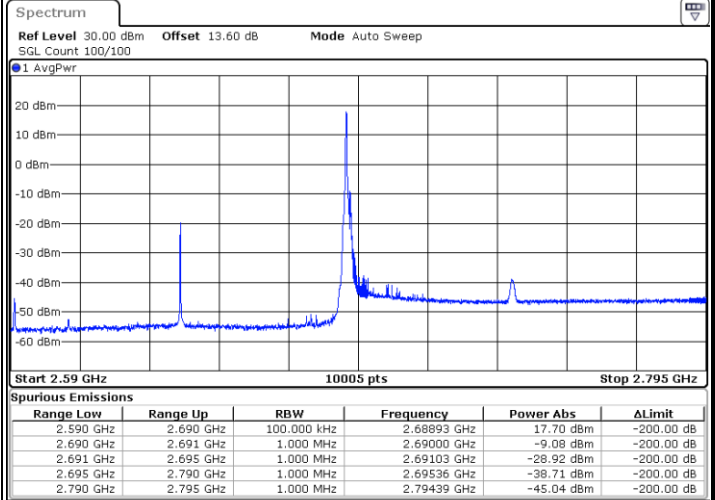
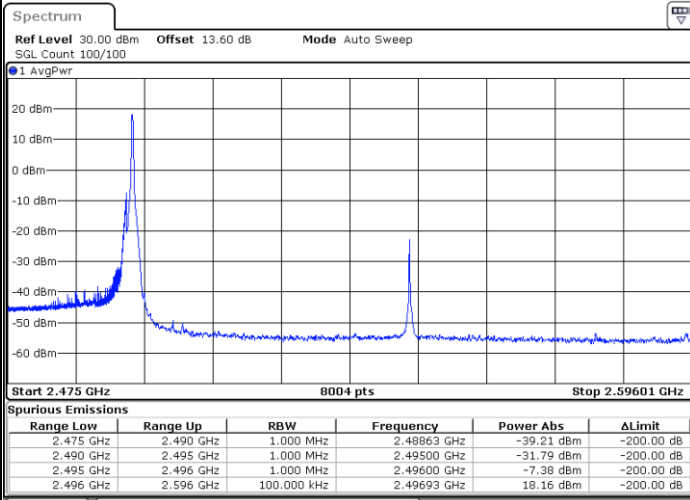
Date: 1.OCT.2020 08:03:51



FR1 n41 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

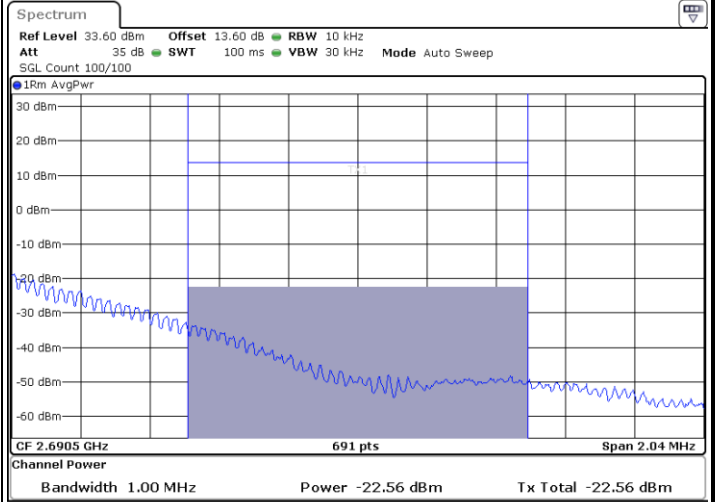
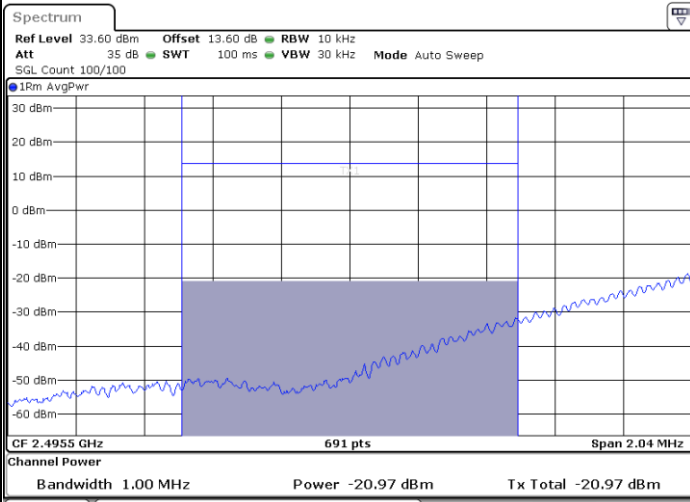


Date: 1.OCT.2020 07:50:03

Date: 1.OCT.2020 08:10:08

Channel Power -20.97dBm < -13dBm (Pass)

Channel Power -22.56dBm < -10dBm (Pass)



Date: 2.OCT.2020 16:32:54

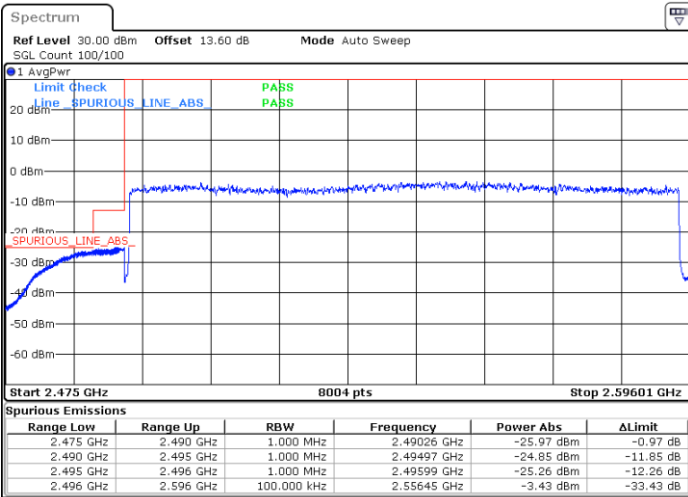
Date: 2.OCT.2020 16:35:31



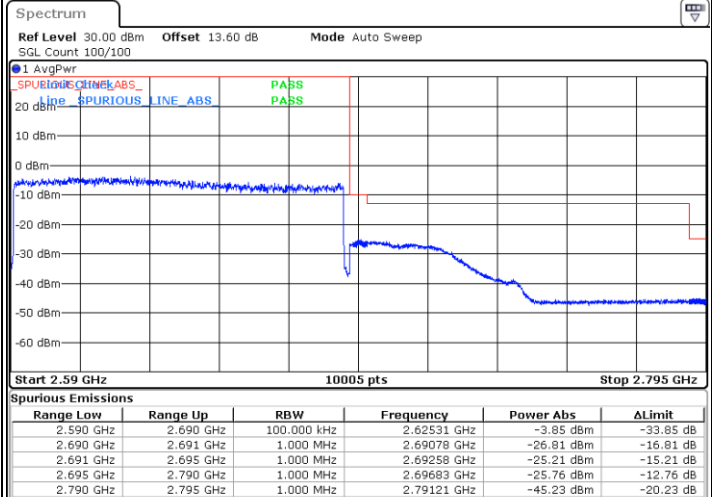
FR1 n41 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 07:50:52



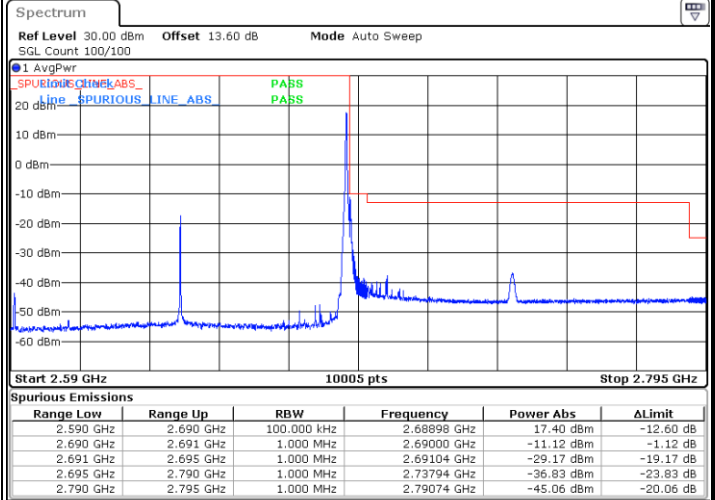
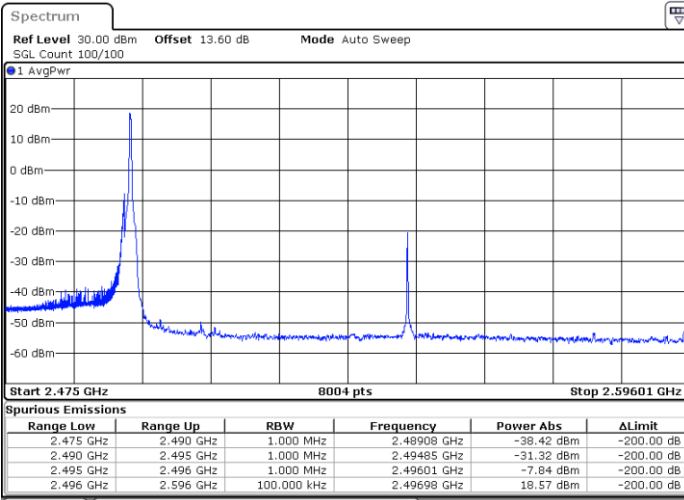
Date: 1.OCT.2020 08:10:58



FR1 n41 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

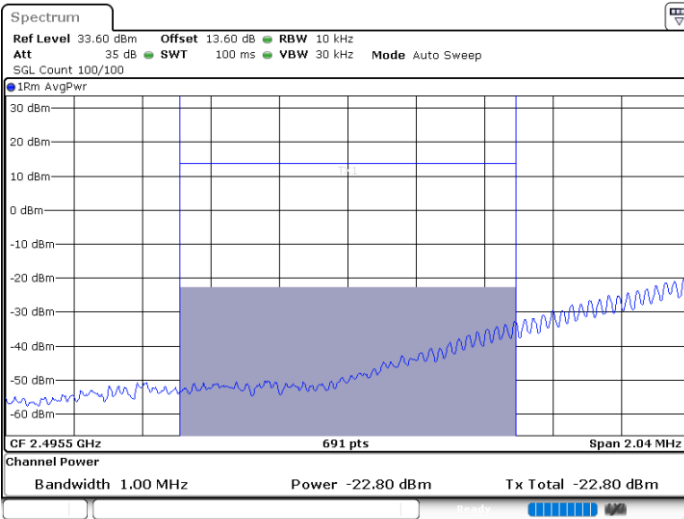
Highest Band Edge / 1RBmax



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

Date: 1.OCT.2020 08:12:15

Channel Power -22.80dBm < -13dBm (Pass)



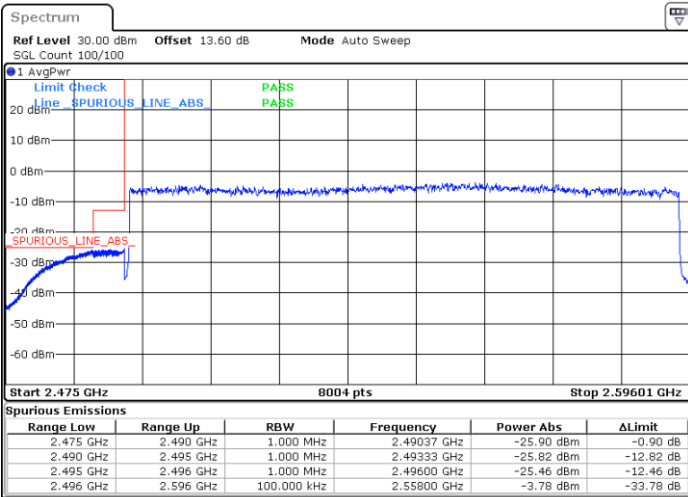
Date: 2.OCT.2020 16:33:24



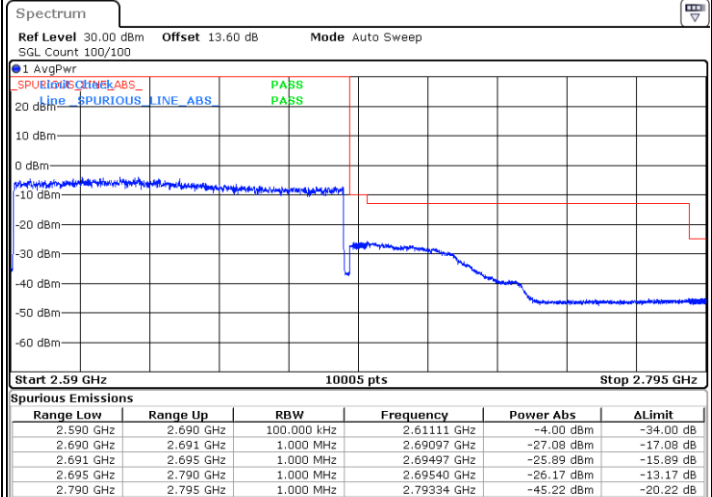
FR1 n41 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 07:52:21



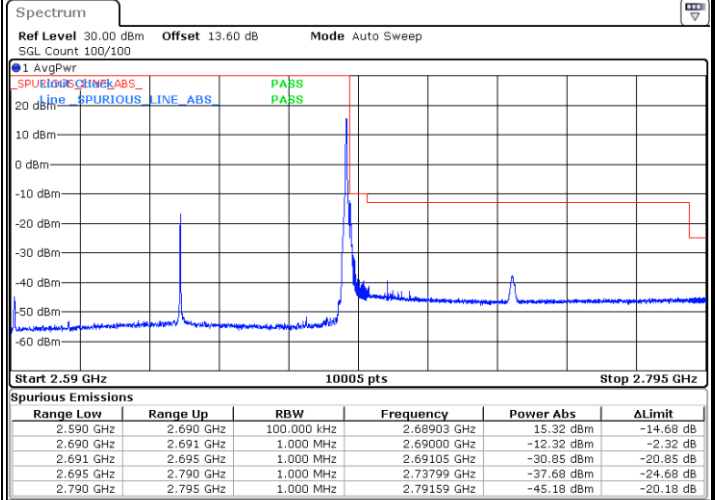
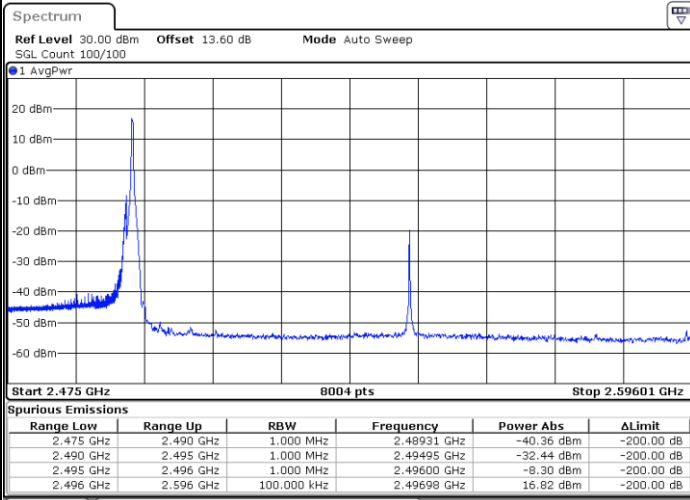
Date: 1.OCT.2020 08:11:35



FR1 n41 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

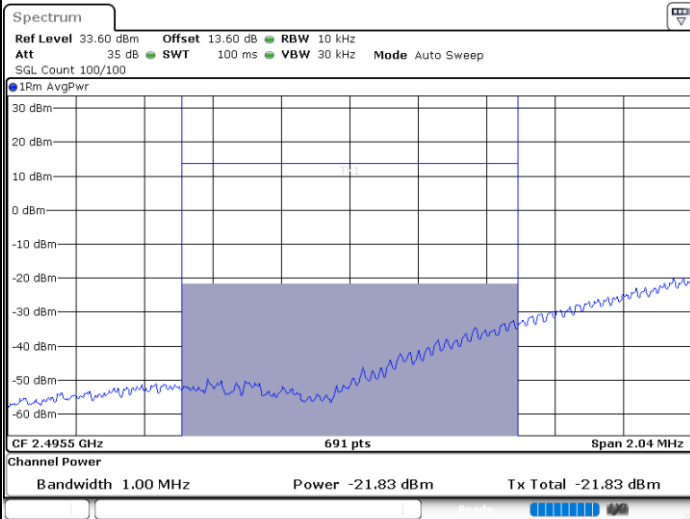
Highest Band Edge / 1RBmax



Date: 1.OCT.2020 07:54:19

Date: 1.OCT.2020 08:12:53

Channel Power -21.83dBm < -13dBm (Pass)



Date: 2.OCT.2020 16:33:56

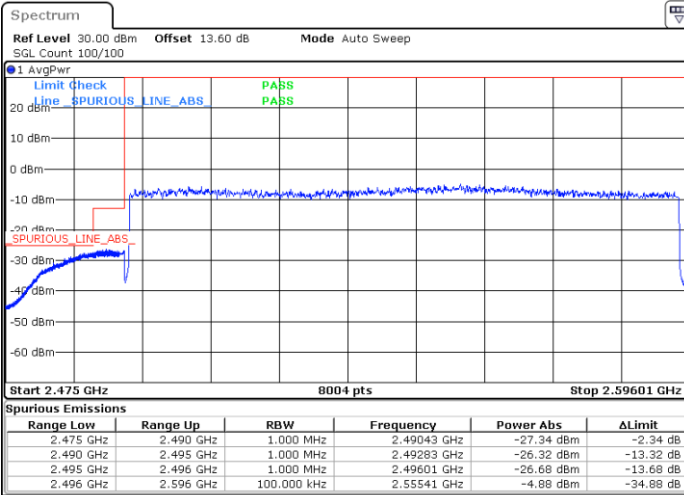




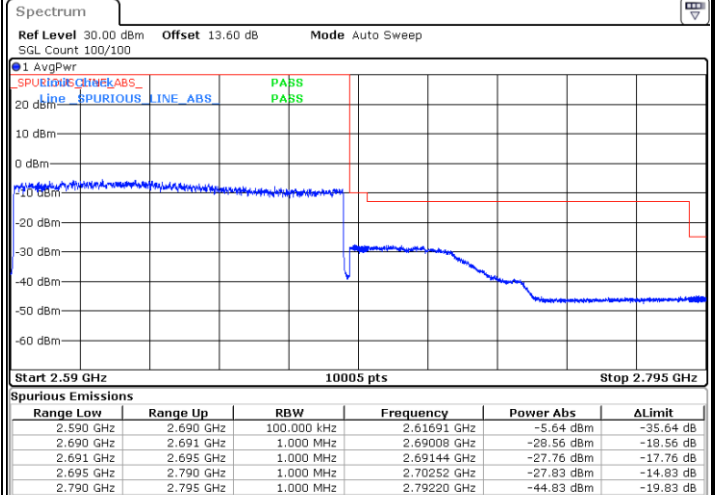
FR1 n41 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 07:54:47



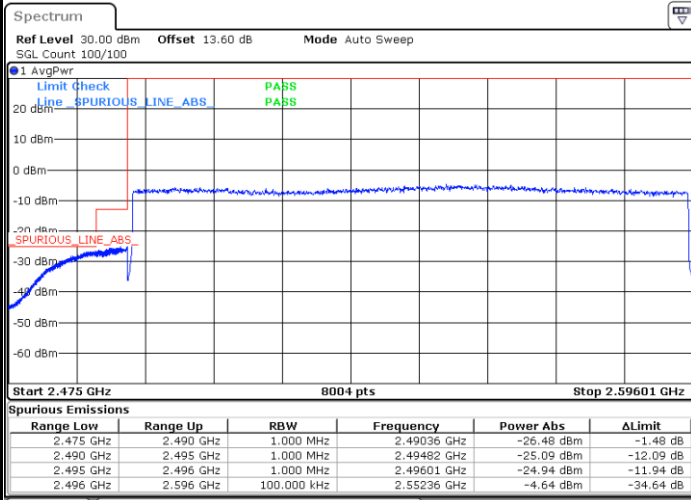
Date: 1.OCT.2020 08:13:32



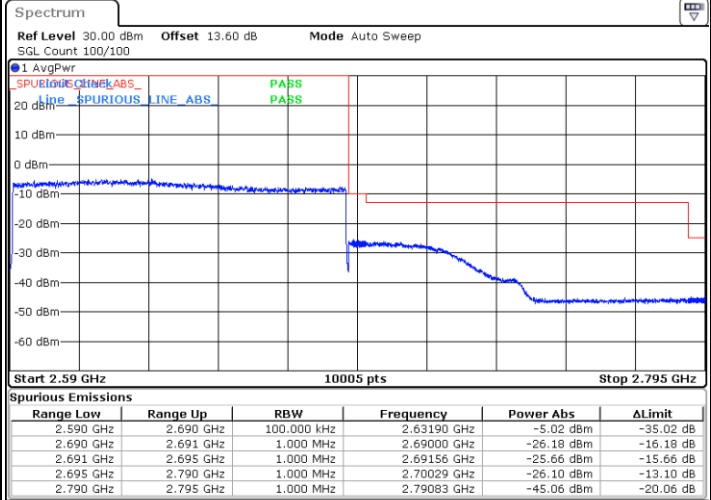
FR1 n41 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 07:56:10



Date: 1.OCT.2020 08:08:42

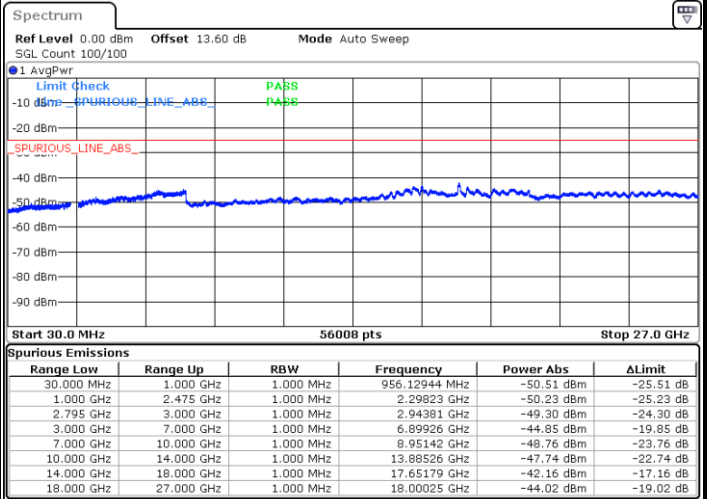
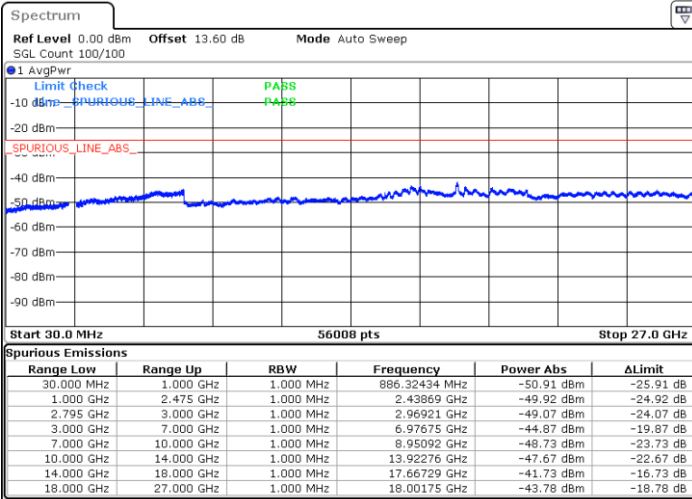


# Conducted Spurious Emission

## FR1 n41 / 20MHz / DFT-S OFDM / QPSK

### Lowest Channel / 1RB1

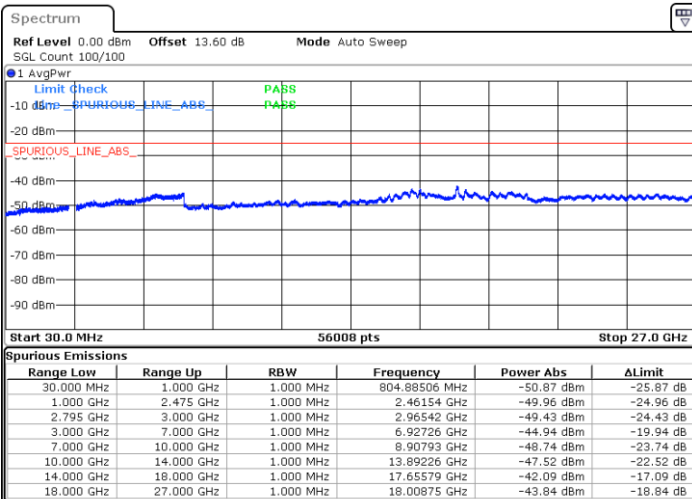
### Middle Channel / 1RB1



Date: 1.OCT.2020 11:12:44

Date: 1.OCT.2020 06:59:38

### Highest Channel / 1RB1



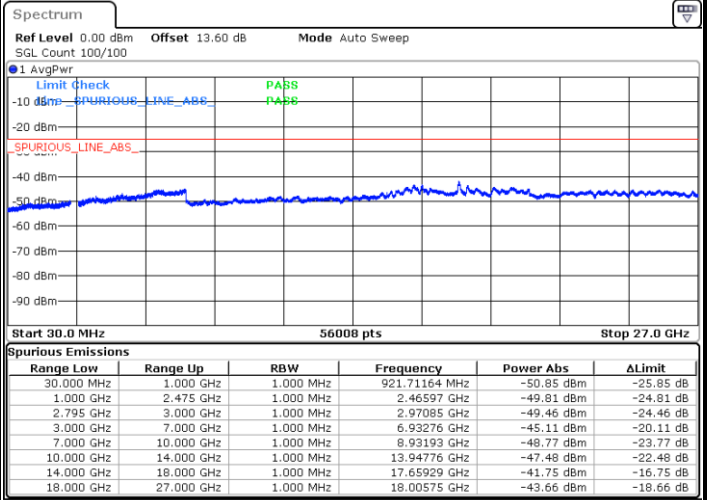
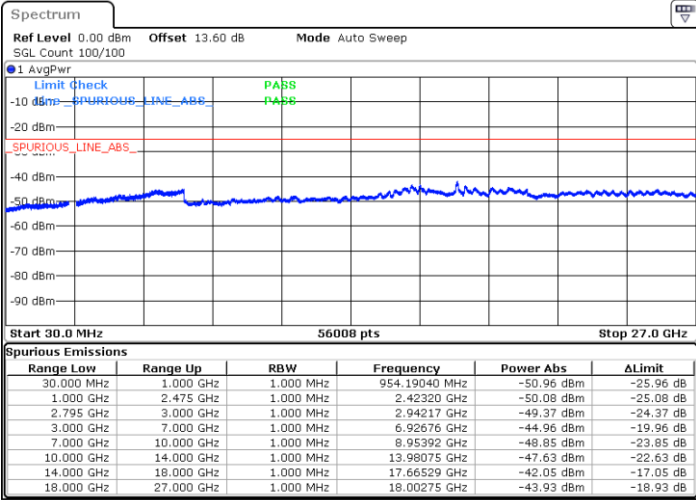
Date: 1.OCT.2020 11:32:07



FR1 n41 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

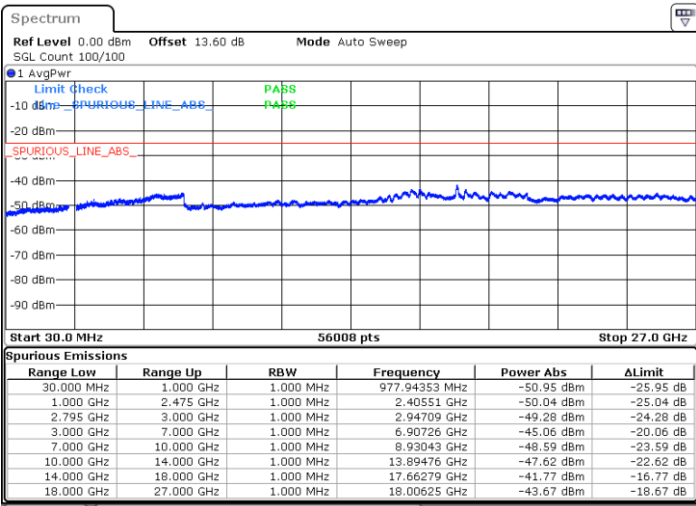
Middle Channel / 1RB1



Date: 1.OCT.2020 10:39:02

Date: 1.OCT.2020 07:01:58

Highest Channel / 1RB1



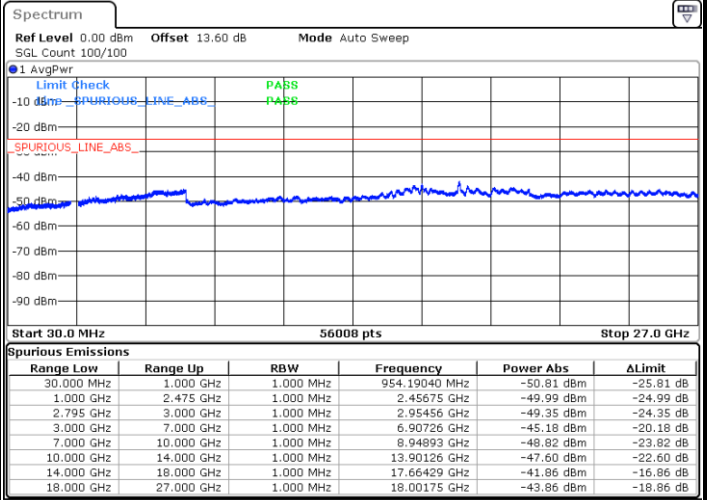
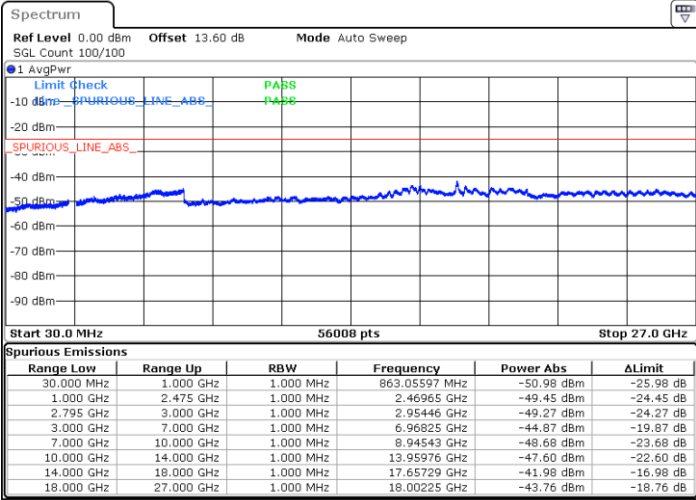
Date: 1.OCT.2020 10:59:45



FR1 n41 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

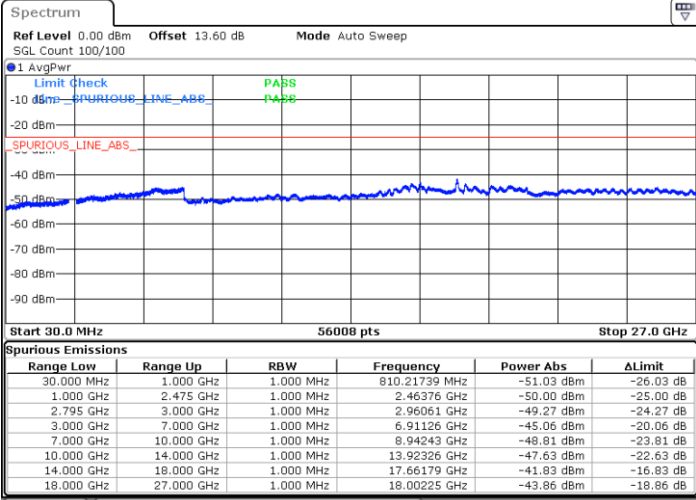
Middle Channel / 1RB1



Date: 1.OCT.2020 10:03:57

Date: 1.OCT.2020 07:15:16

Highest Channel / 1RB1



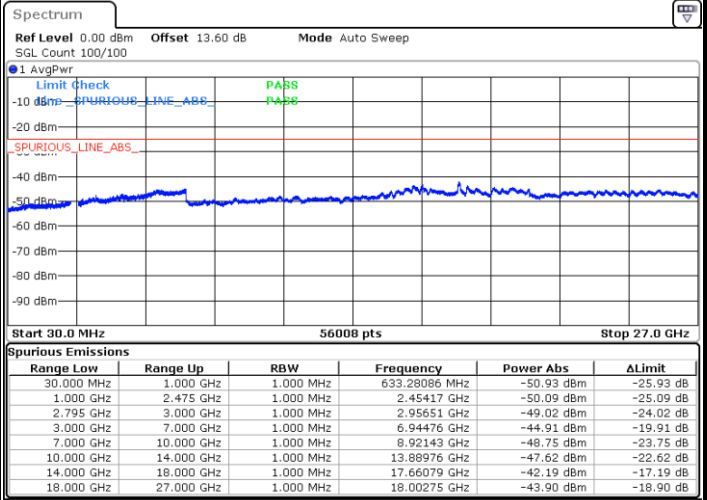
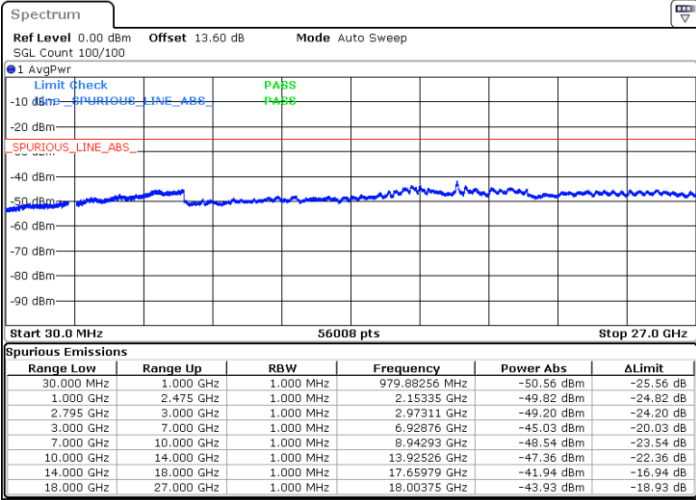
Date: 1.OCT.2020 10:21:04



FR1 n41 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

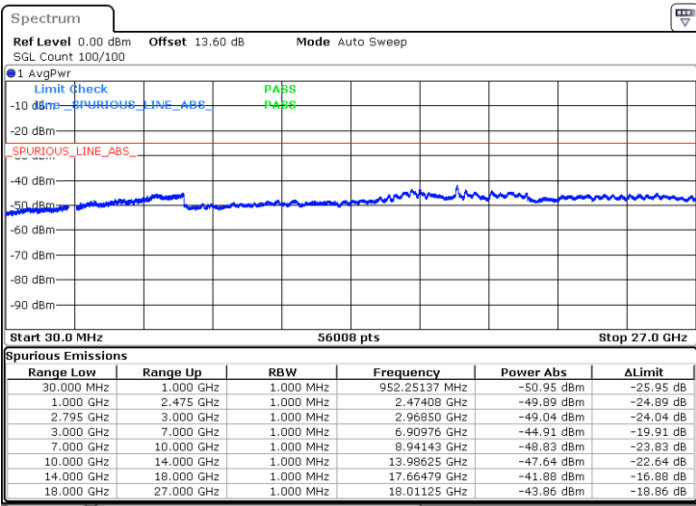
Middle Channel / 1RB1



Date: 1.OCT.2020 09:32:25

Date: 1.OCT.2020 07:18:43

Highest Channel / 1RB1



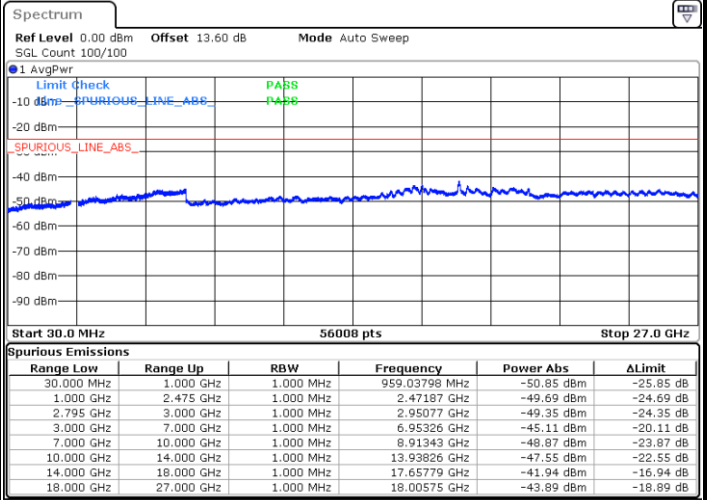
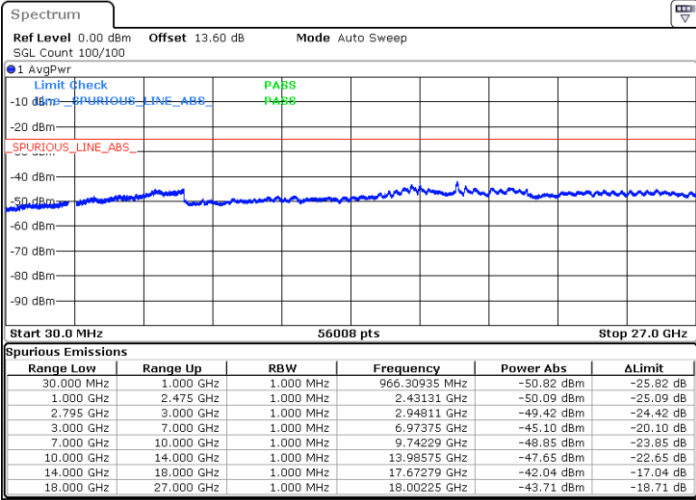
Date: 1.OCT.2020 09:42:18



FR1 n41 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

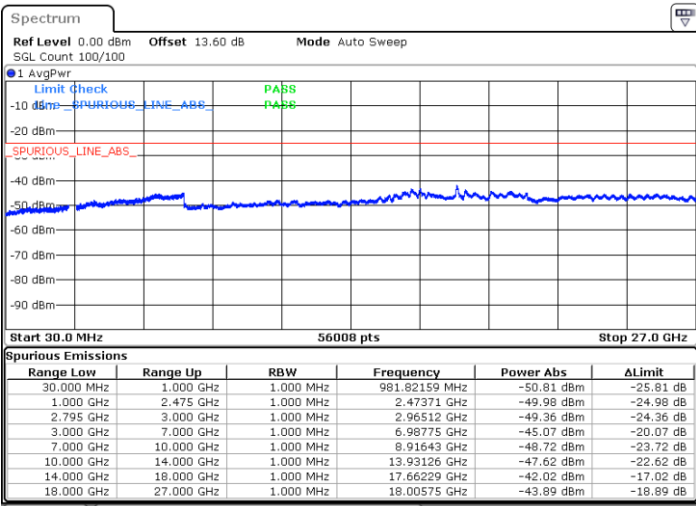
Middle Channel / 1RB1



Date: 1.OCT.2020 08:55:18

Date: 1.OCT.2020 07:25:05

Highest Channel / 1RB1



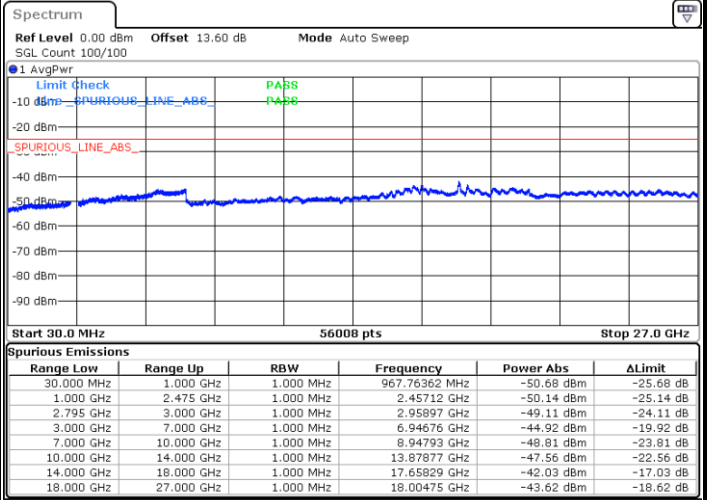
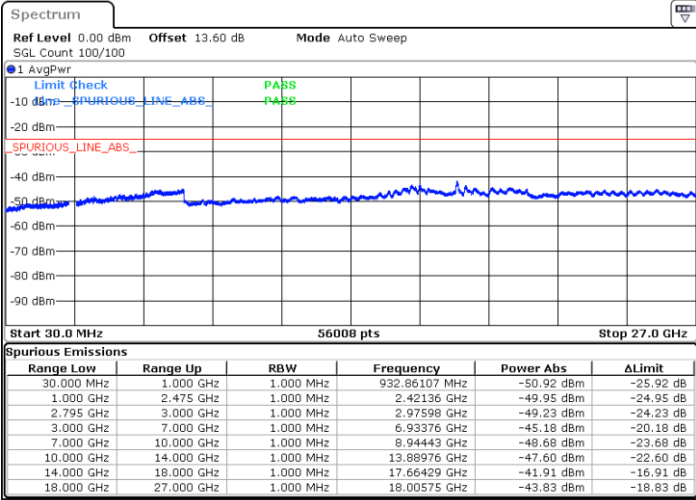
Date: 1.OCT.2020 09:02:31



FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

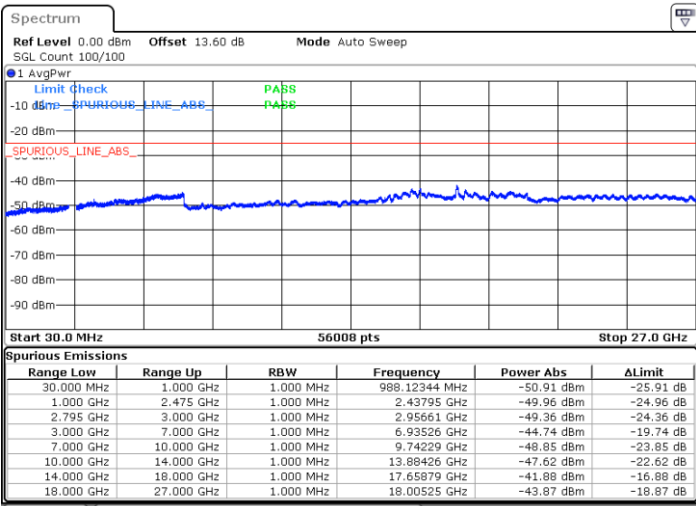
Middle Channel / 1RB1



Date: 1.OCT.2020 08:28:36

Date: 1.OCT.2020 07:32:00

Highest Channel / 1RB1



Date: 1.OCT.2020 08:36:29

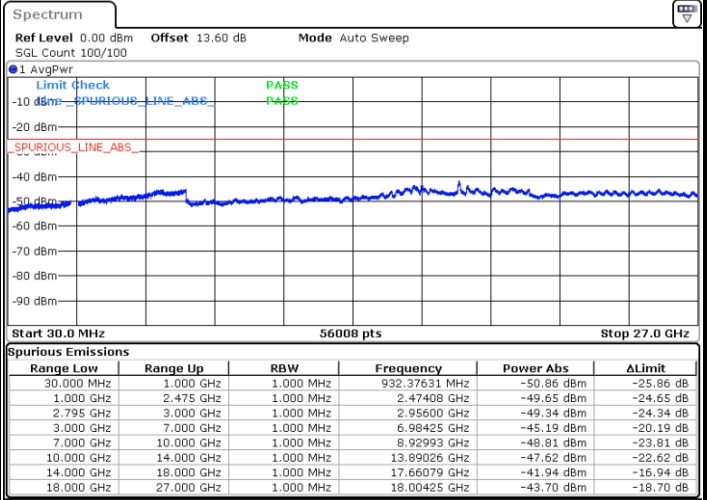
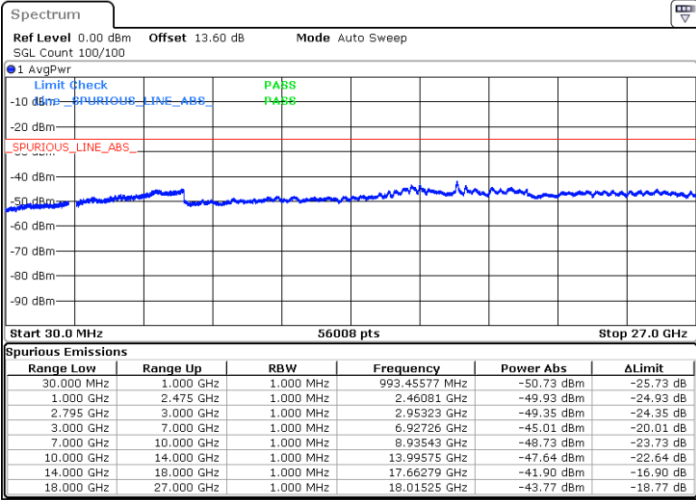




FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

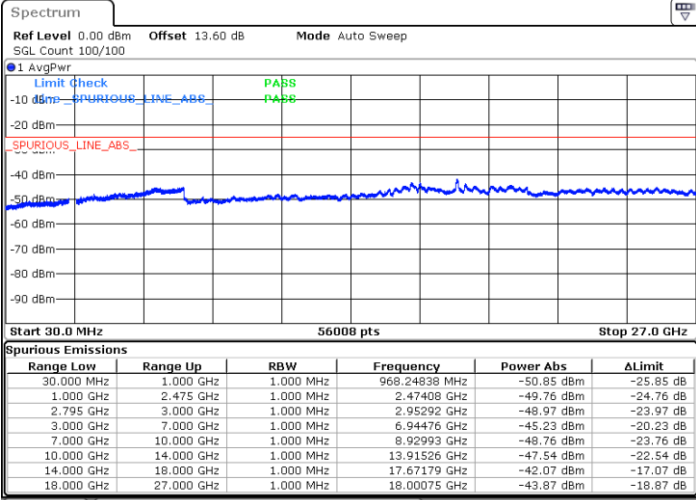
Middle Channel / 1RB1



Date: 1.OCT.2020 07:57:23

Date: 1.OCT.2020 07:39:30

Highest Channel / 1RB1



Date: 1.OCT.2020 08:07:50



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0145	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0045	
0	Normal Voltage	0.0153	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0218	
20	Normal Voltage	0.0045	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n71

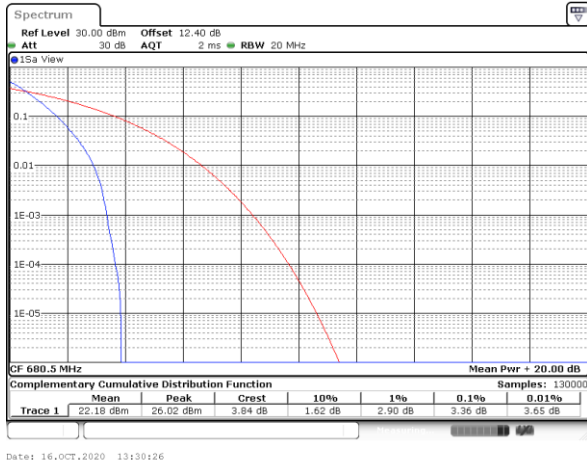
## Peak-to-Average Ratio

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	3.36	4.17	5.83	6.23	PASS
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.90				PASS

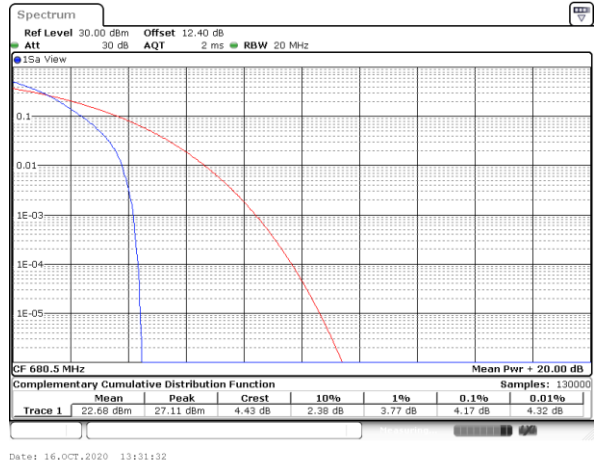


FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

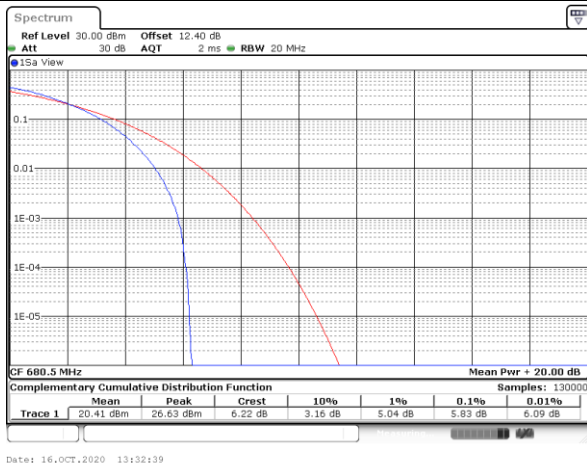
PI/2 BPSK



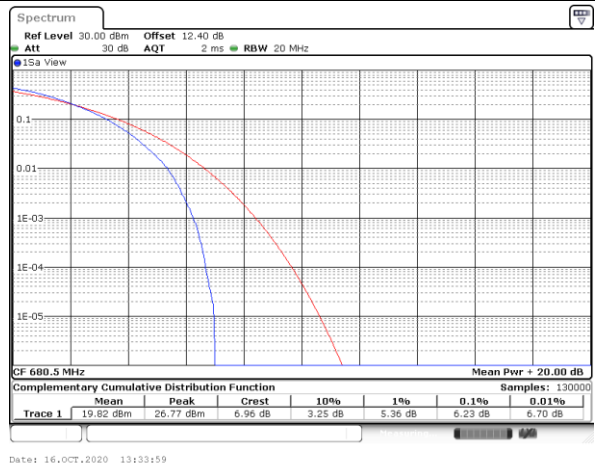
QPSK



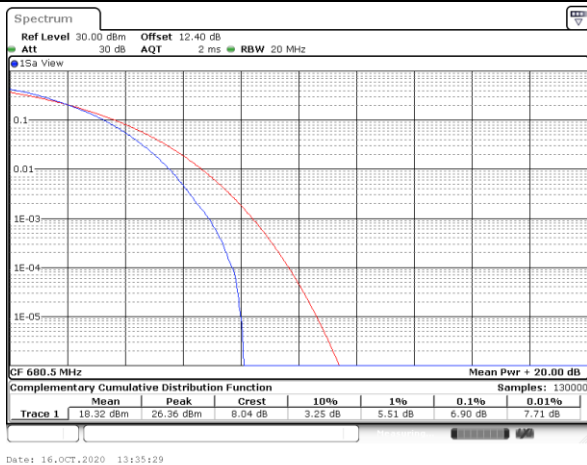
16QAM



64QAM



256QAM





**26dB Bandwidth**

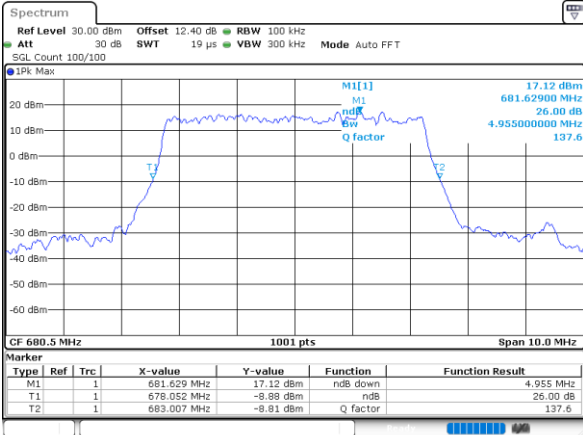
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.96		9.45		14.24		18.74	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.00	5.10	9.65	9.93	14.84	14.93	19.82	19.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.97	5.01	9.69	9.81	15.02	14.93	19.98	19.74



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

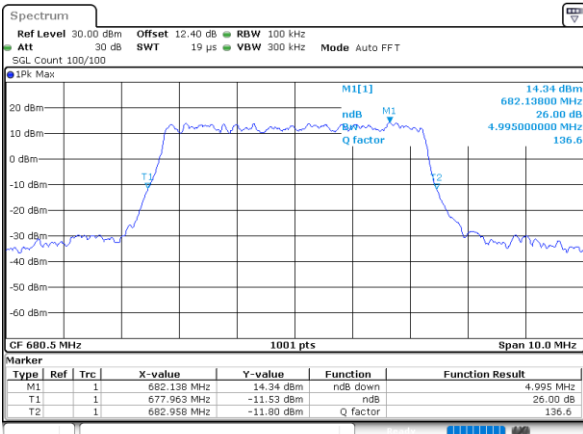
PI/2 BPSK



Date: 16.OCT.2020 13:47:14

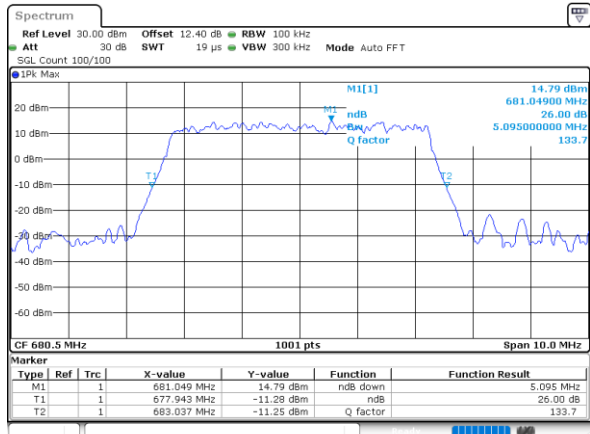
FR1 n71 / 5MHz / CP OFDM / Middle Channel

QPSK



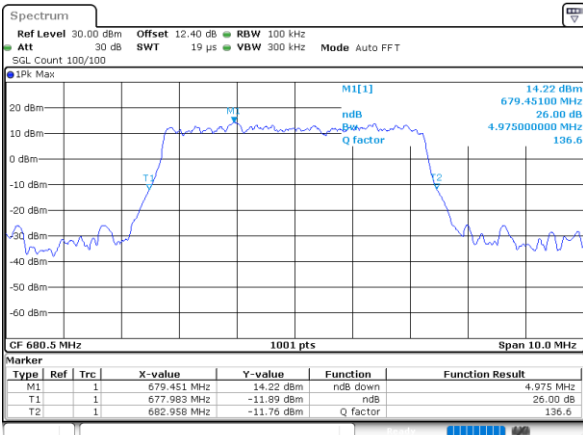
Date: 16.OCT.2020 13:45:48

16QAM



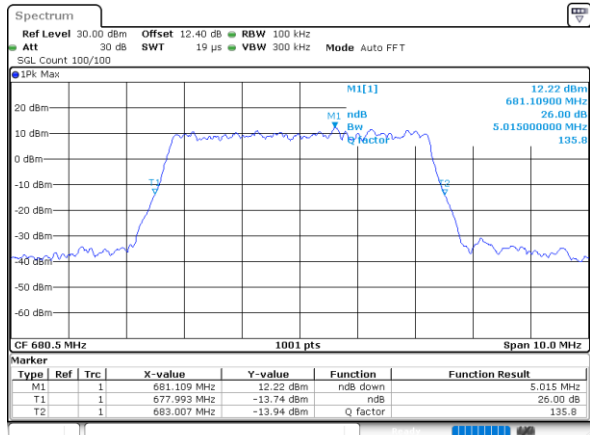
Date: 16.OCT.2020 13:45:28

64QAM



Date: 16.OCT.2020 13:45:04

256QAM

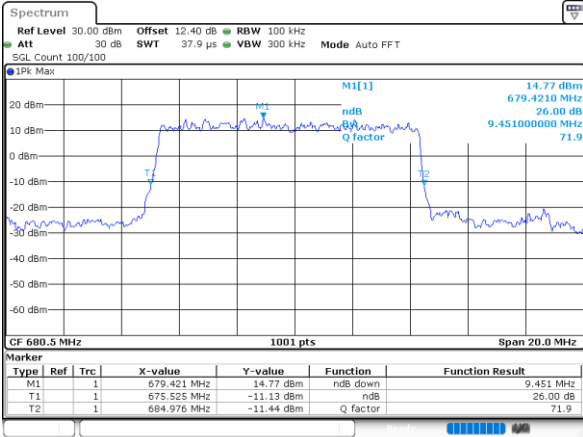


Date: 16.OCT.2020 13:44:41



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

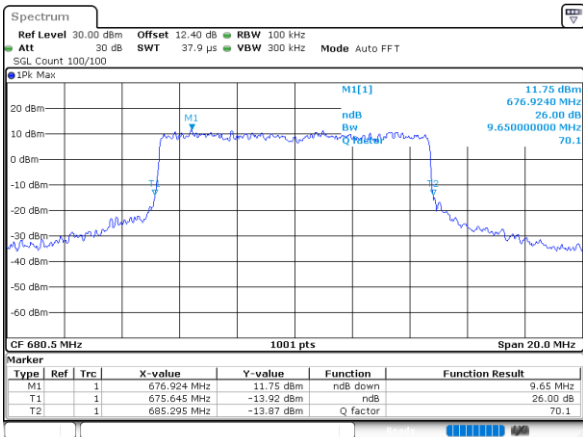
PI/2 BPSK



Date: 16.OCT.2020 13:41:07

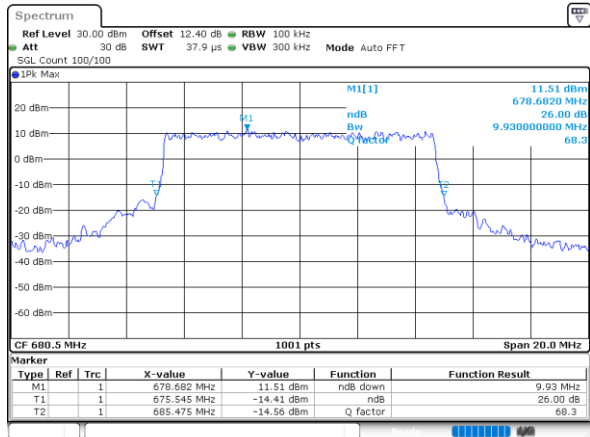
FR1 n71 / 10MHz / CP OFDM / Middle Channel

QPSK



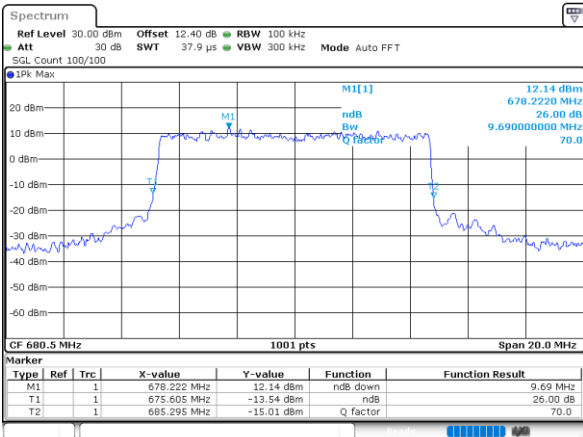
Date: 16.OCT.2020 13:42:16

16QAM



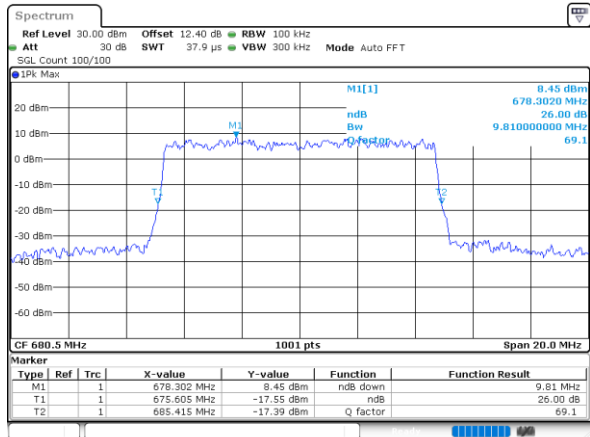
Date: 16.OCT.2020 13:42:19

64QAM



Date: 16.OCT.2020 13:43:04

256QAM

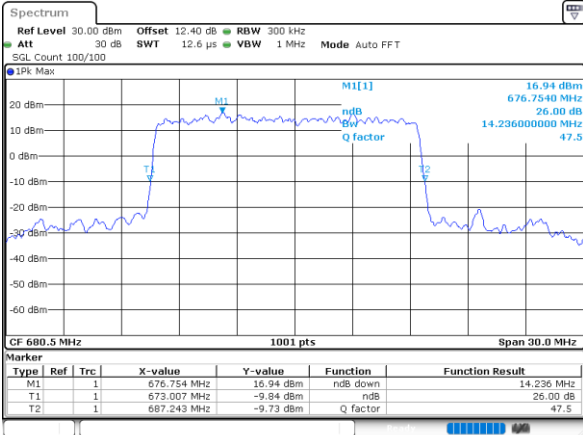


Date: 16.OCT.2020 13:43:19



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

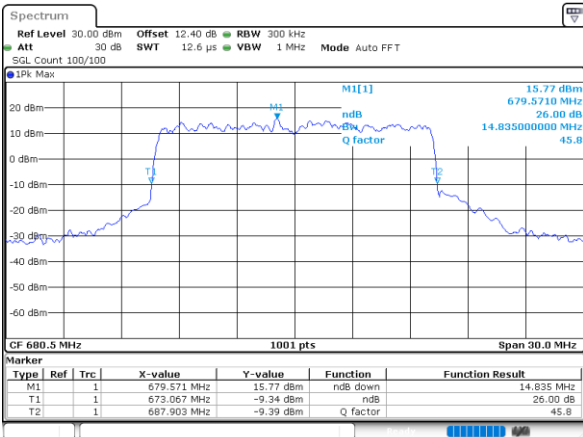
PI/2 BPSK



Date: 16.OCT.2020 13:40:23

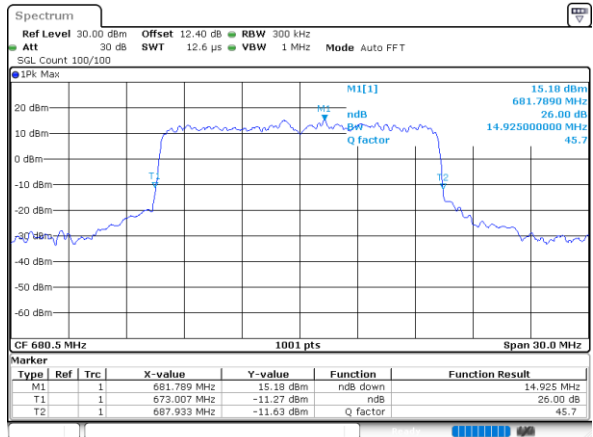
FR1 n71 / 15MHz / CP OFDM / Middle Channel

QPSK



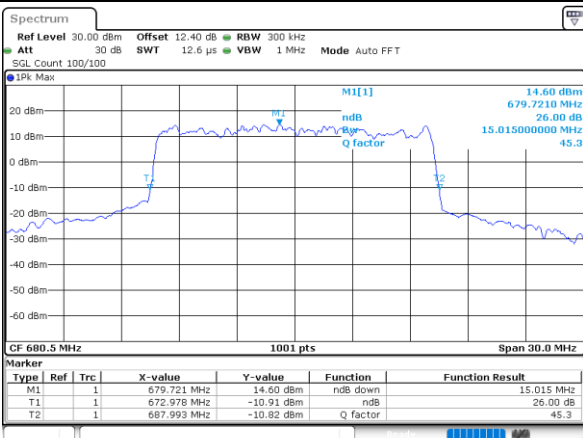
Date: 16.OCT.2020 13:39:17

16QAM



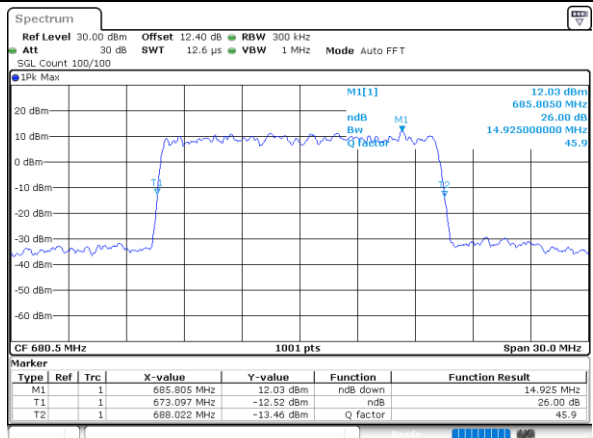
Date: 16.OCT.2020 13:38:50

64QAM



Date: 16.OCT.2020 13:38:10

256QAM



Date: 16.OCT.2020 13:38:55