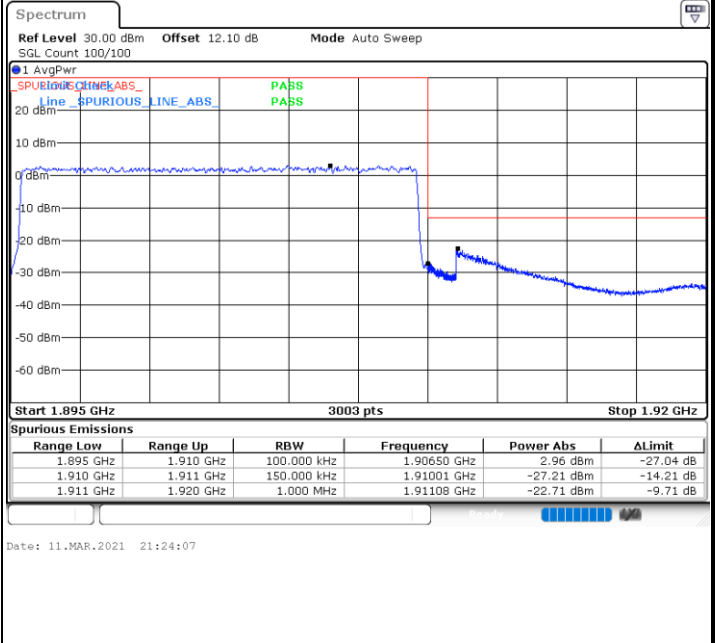
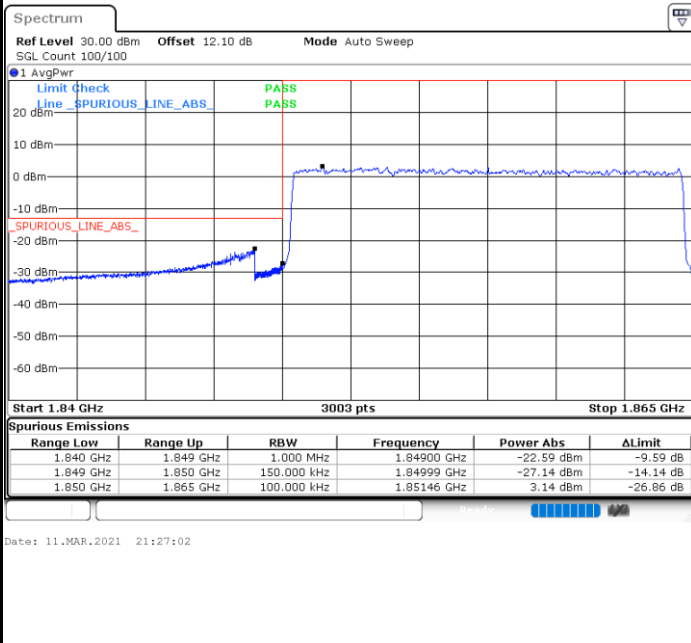




FR1 n2 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

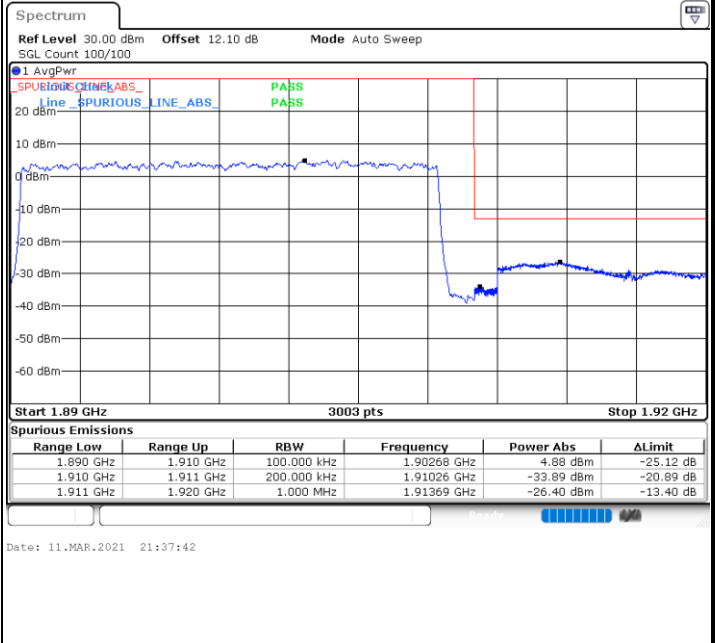
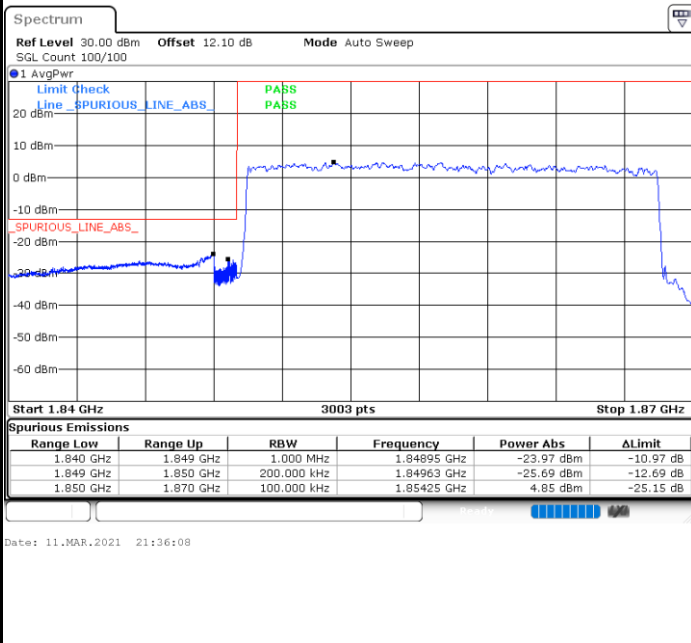
Highest Band Edge



FR1 n2 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge

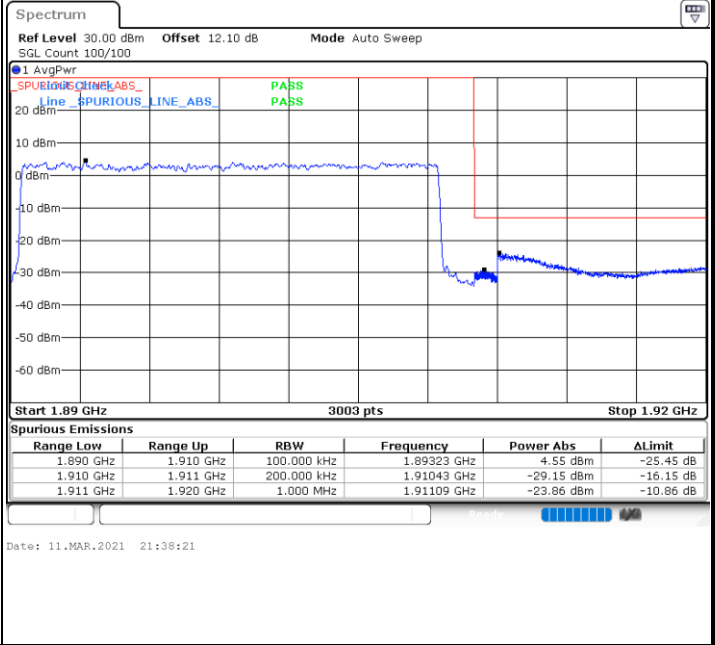
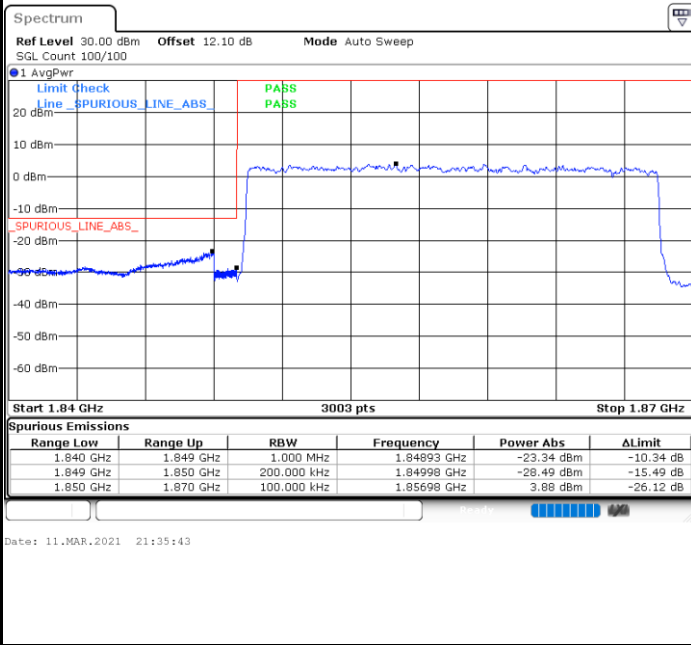




FR1 n2 / 20MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

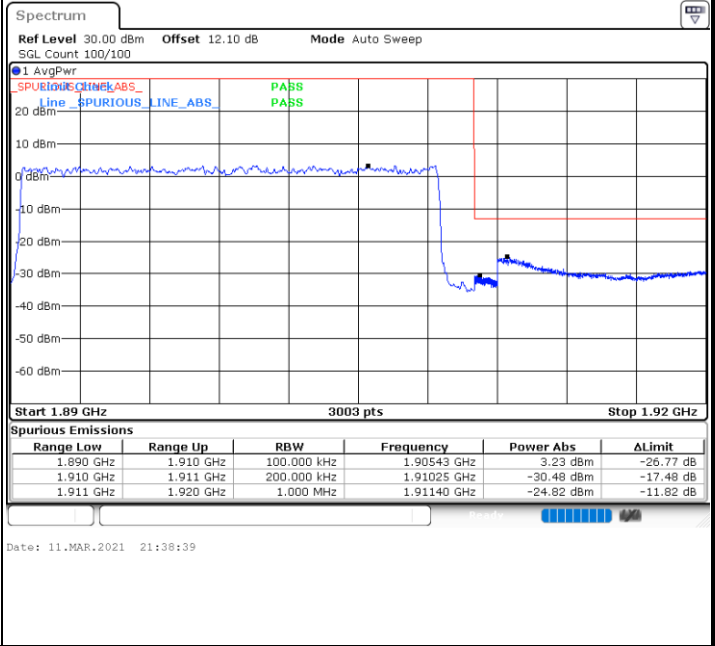
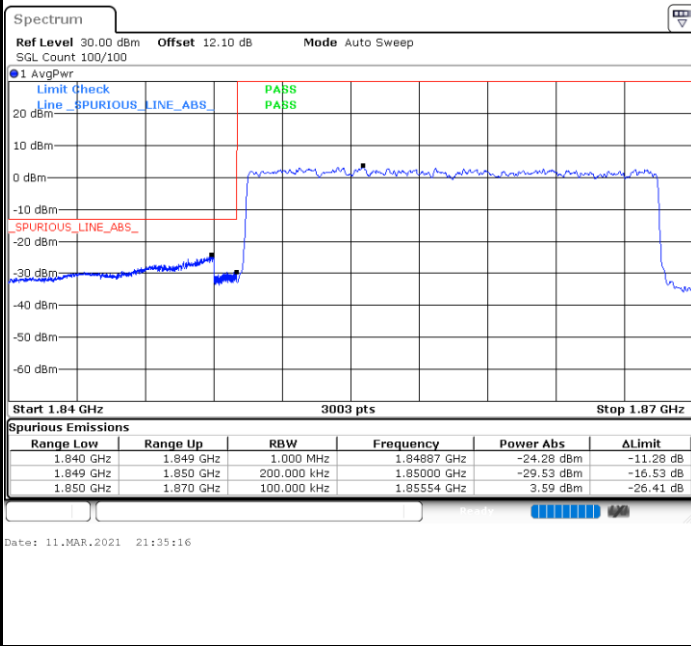
Highest Band Edge



FR1 n2 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

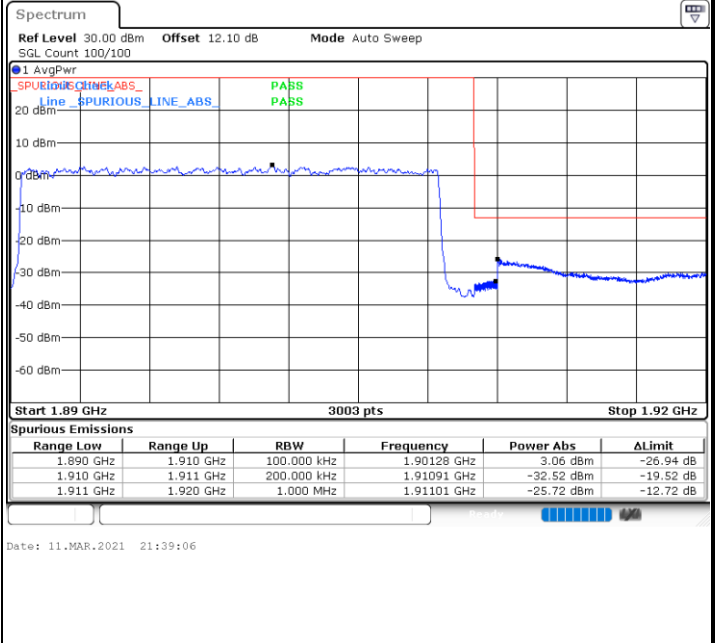
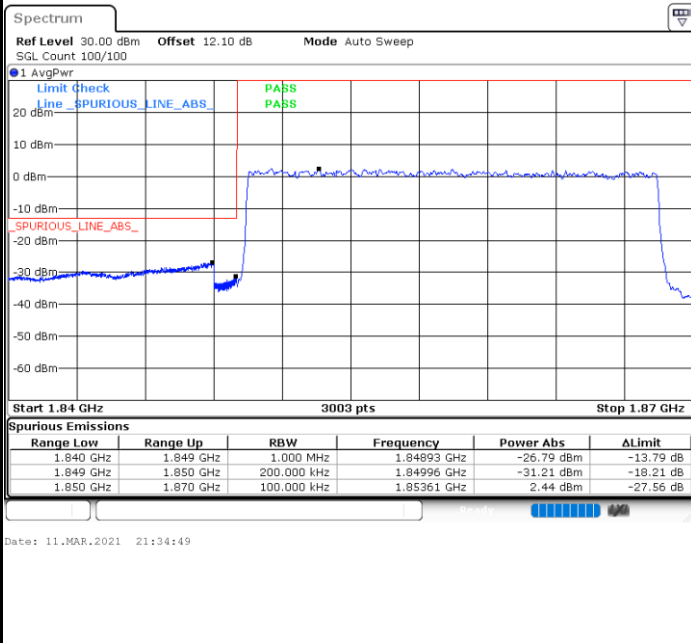




FR1 n2 / 20MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

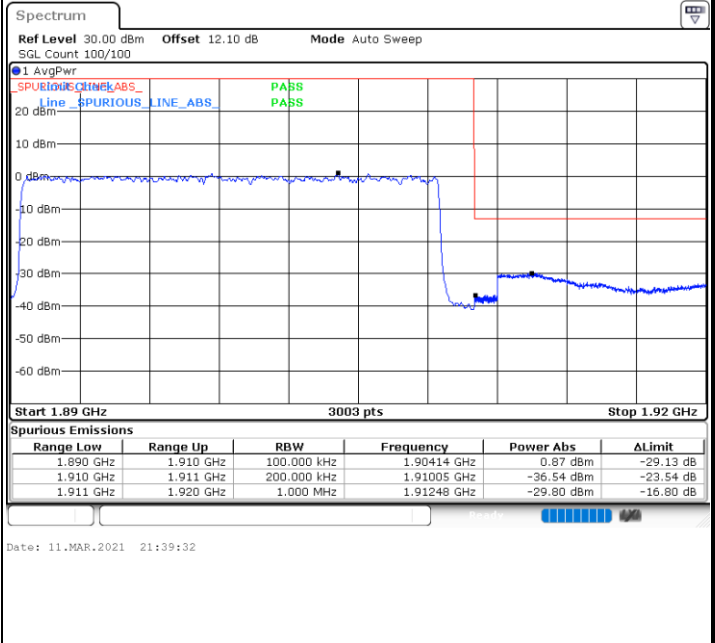
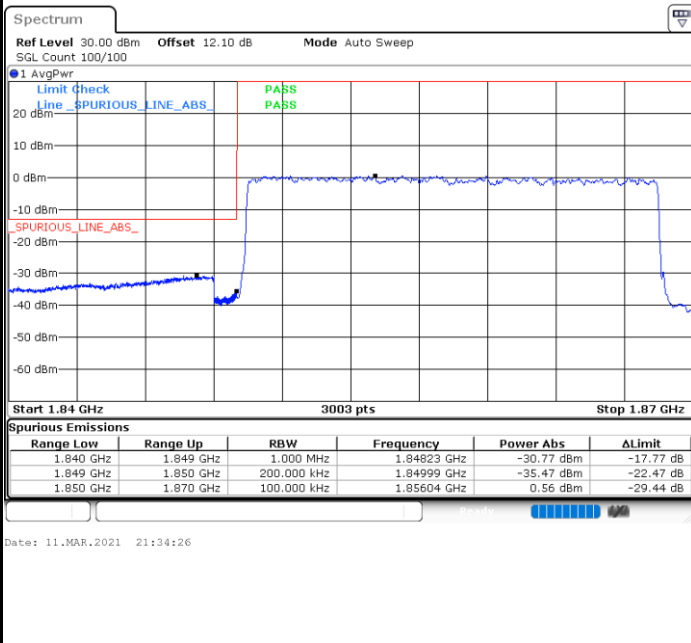
Highest Band Edge

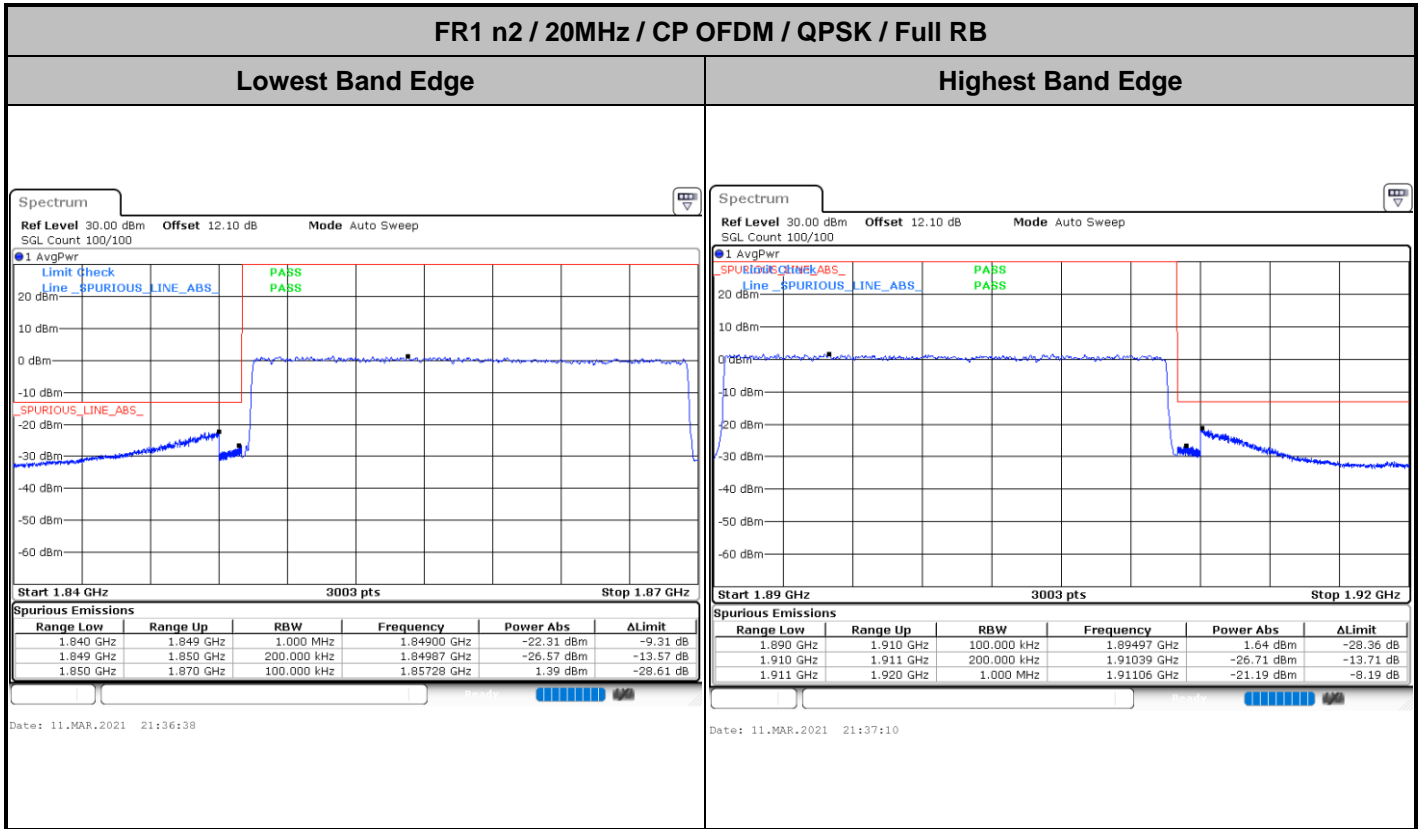


FR1 n2 / 20MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



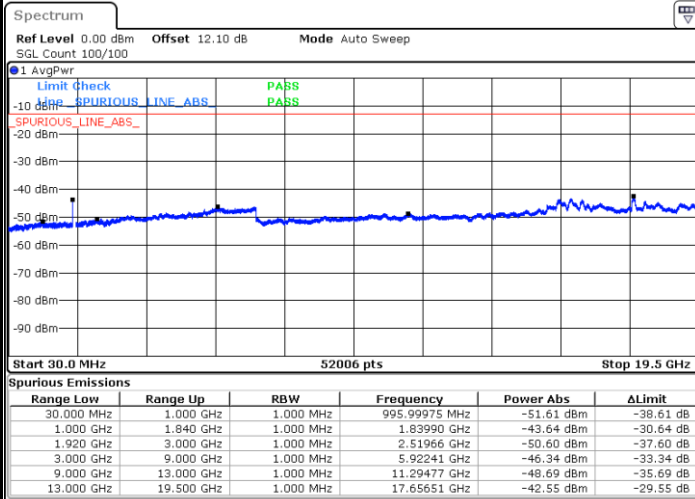




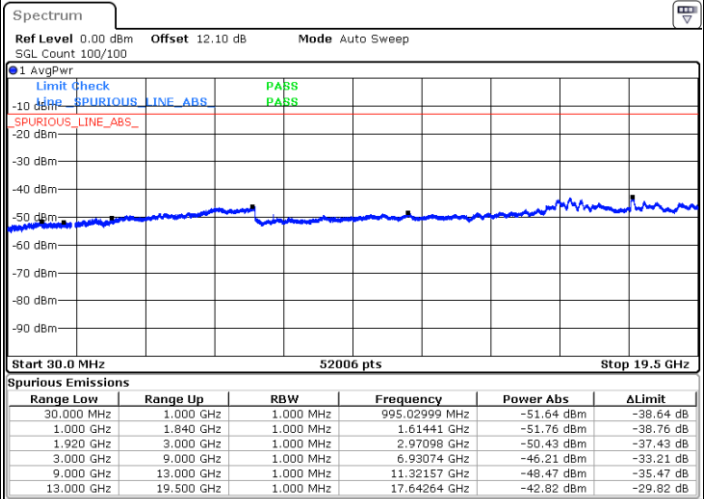
Conducted Spurious Emission

FR1 n2 / 5MHz / DFT-S OFDM / QPSK / 1RB1

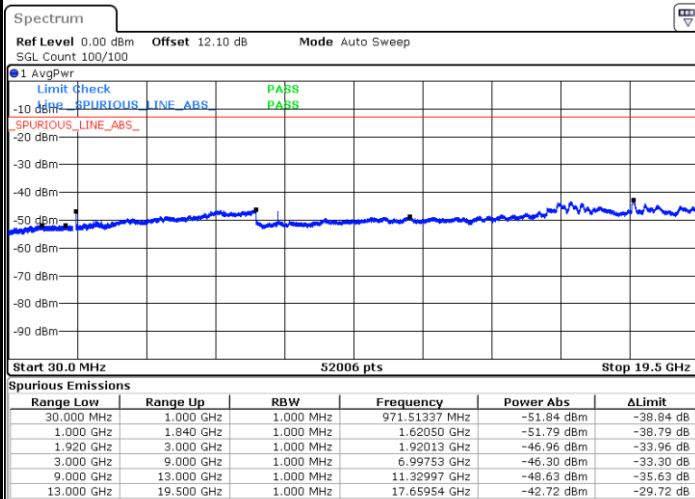
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n2 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0152	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =11.6 V. ; Maximum Voltage =12.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n5

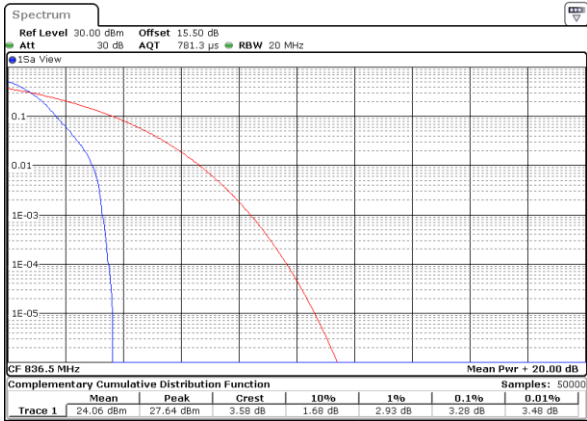
Peak-to-Average Ratio

Mode	FR1 n5 / 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	3.28	4.46	5.54	5.88	PASS
Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.49				PASS



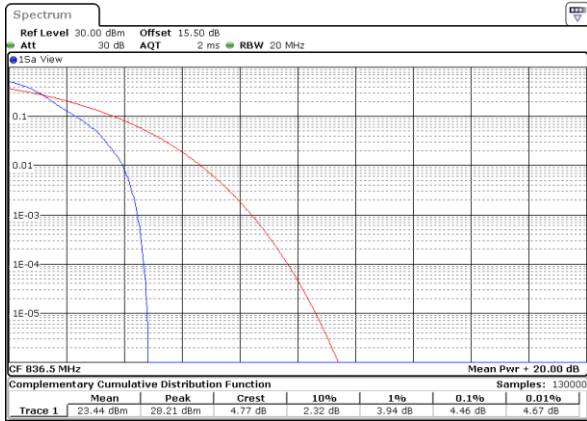
FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



Date: 11.MAR.2021 22:31:24

QPSK



Date: 11.MAR.2021 22:31:44

16QAM



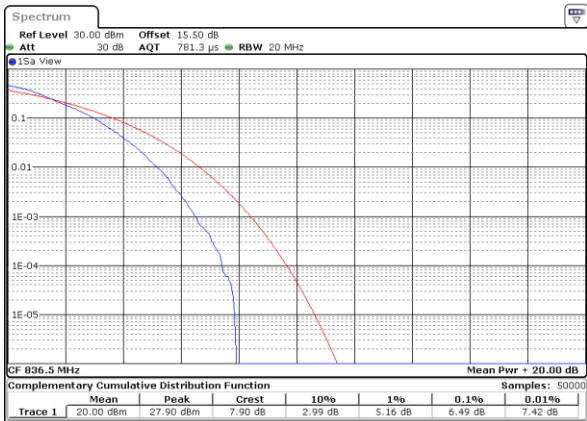
Date: 11.MAR.2021 22:32:03

64QAM



Date: 11.MAR.2021 22:32:22

256QAM



Date: 11.MAR.2021 22:33:15



26dB Bandwidth

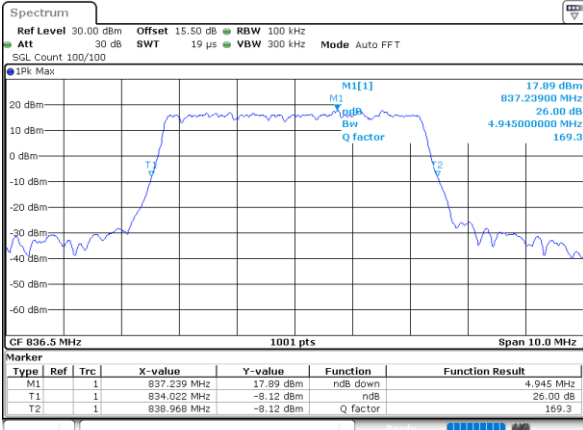
Mode	FR1 n5 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.95		9.39		14.18		18.70	

Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.88	4.97	9.95	9.69	14.84	14.93	19.70	19.86
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.96	4.89	9.69	9.93	14.87	15.02	19.78	19.82



FR1 n5 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

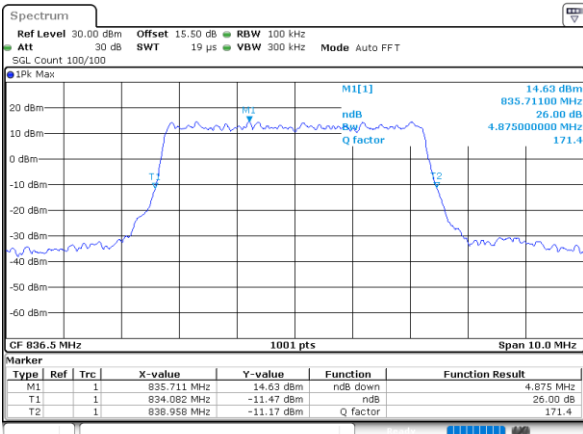
PI/2 BPSK



Date: 11.MAR.2021 22:43:34

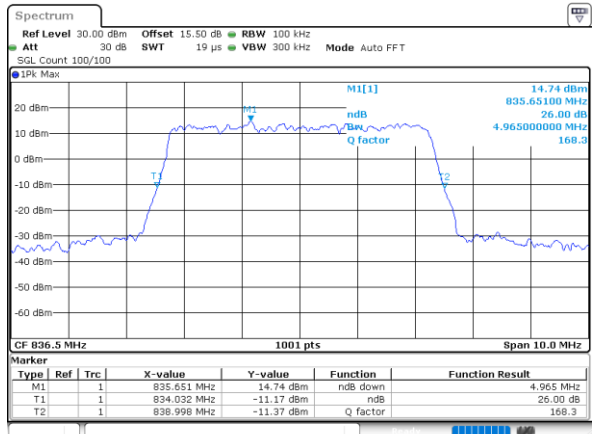
FR1 n5 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



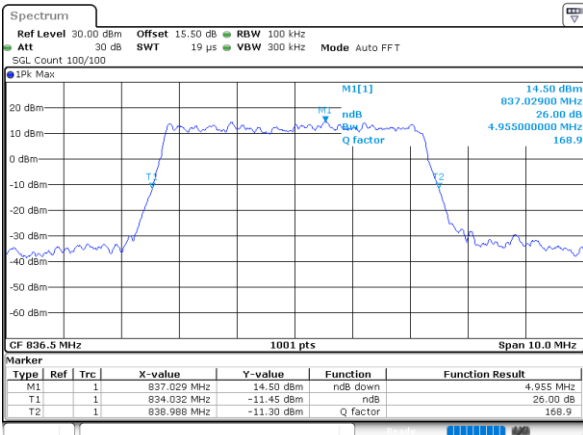
Date: 11.MAR.2021 22:44:08

16QAM



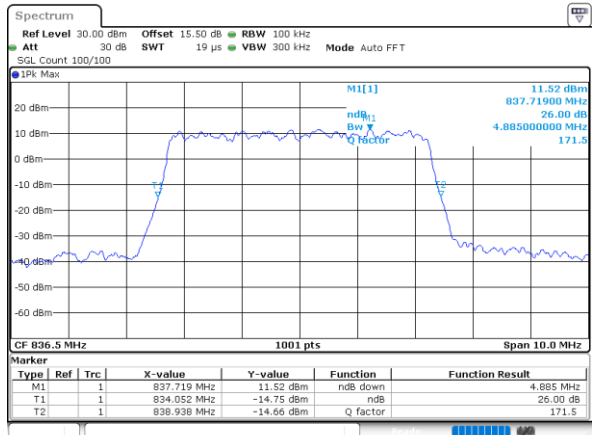
Date: 11.MAR.2021 22:44:34

64QAM



Date: 11.MAR.2021 22:44:51

256QAM

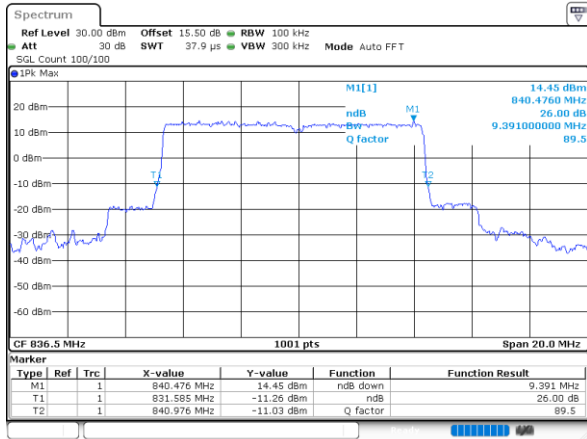


Date: 11.MAR.2021 22:45:10



FR1 n5 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

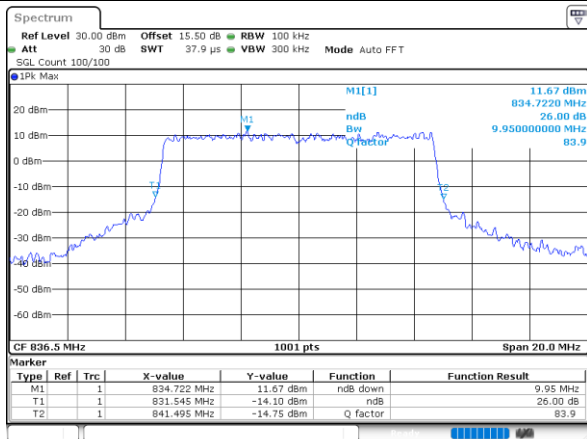
PI/2 BPSK



Date: 11.MAR.2021 22:42:27

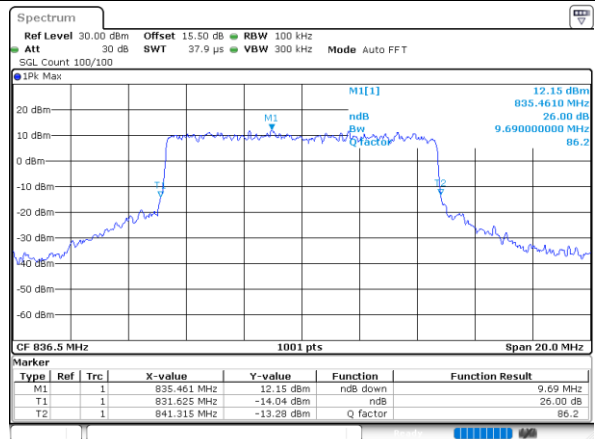
FR1 n5 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



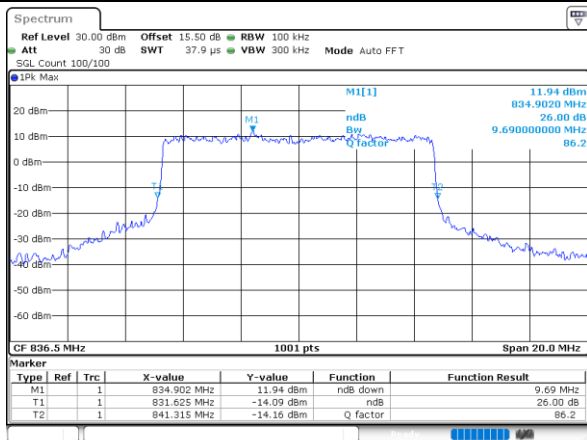
Date: 11.MAR.2021 22:41:58

16QAM



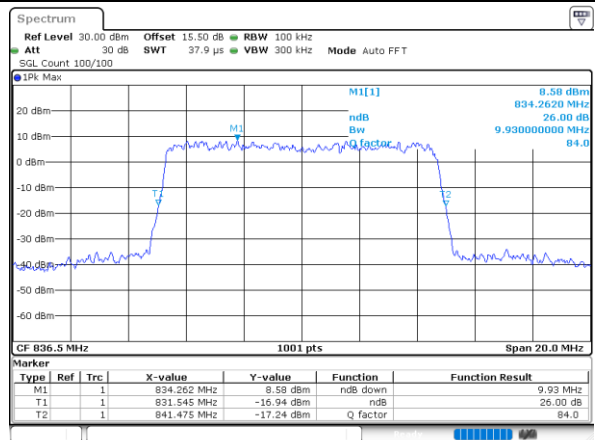
Date: 11.MAR.2021 22:41:44

64QAM



Date: 11.MAR.2021 22:41:22

256QAM

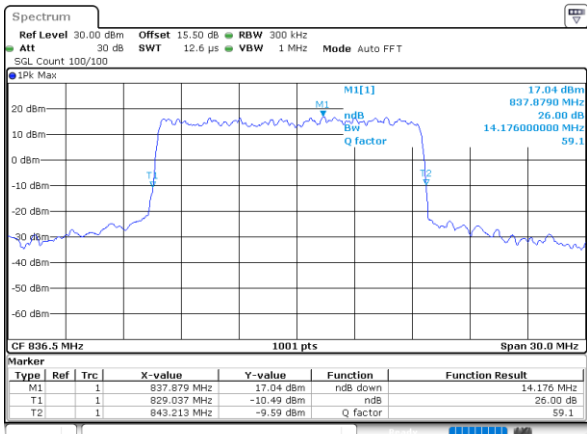


Date: 11.MAR.2021 22:41:04



FR1 n5 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

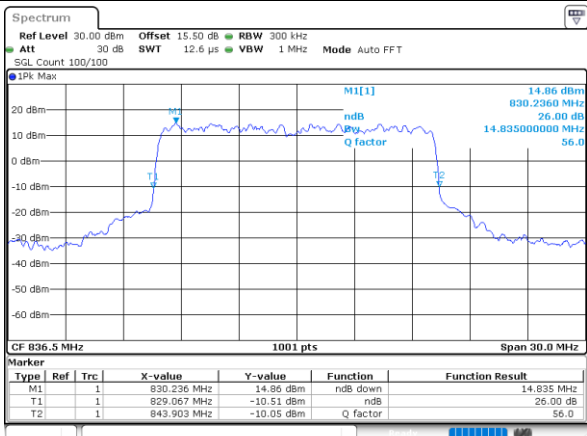
PI/2 BPSK



Date: 11.MAR.2021 22:37:49

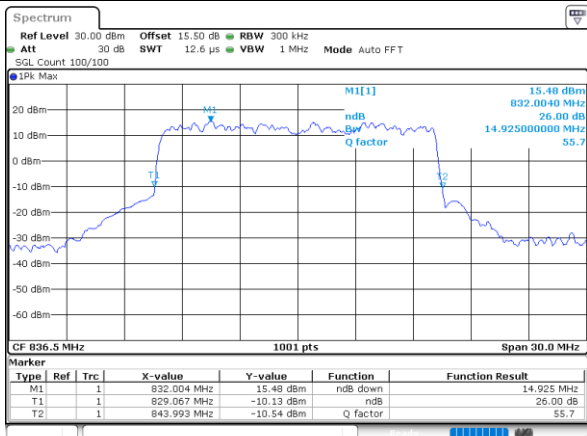
FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



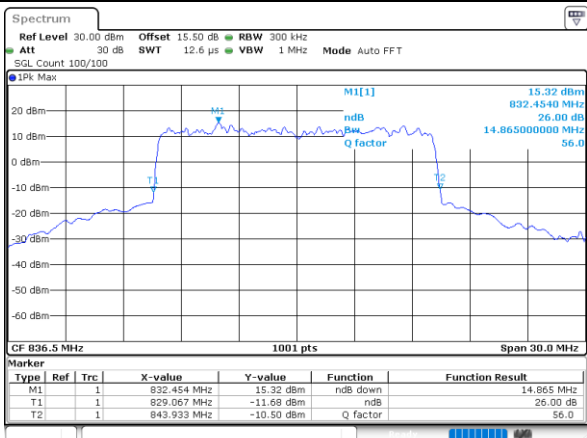
Date: 11.MAR.2021 22:38:20

16QAM



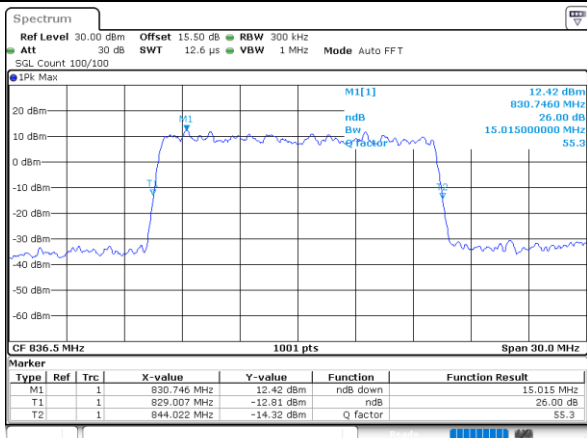
Date: 11.MAR.2021 22:38:37

64QAM



Date: 11.MAR.2021 22:38:54

256QAM

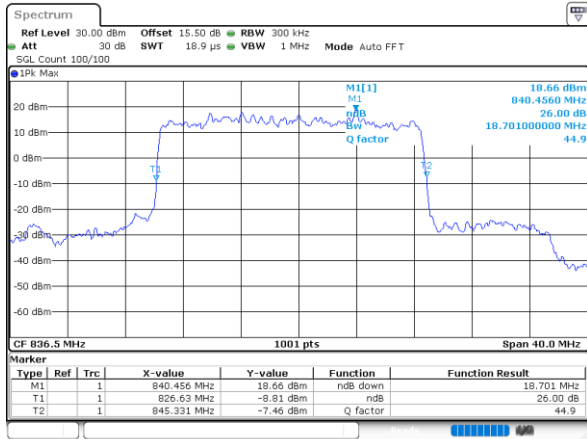


Date: 11.MAR.2021 22:39:15



FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

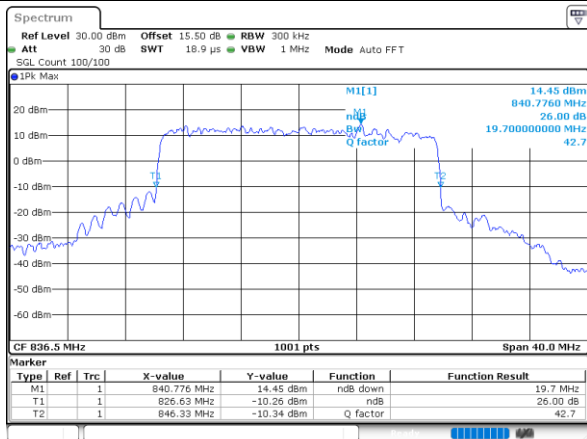
PI/2 BPSK



Date: 11.MAR.2021 22:36:42

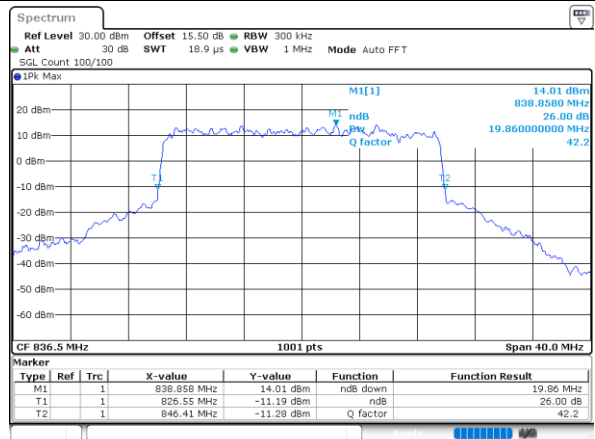
FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



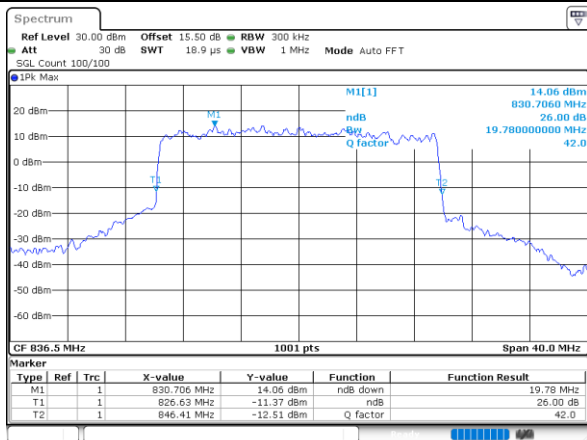
Date: 11.MAR.2021 22:36:11

16QAM



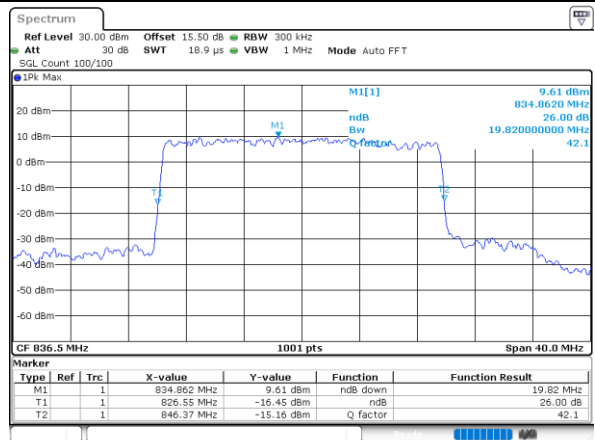
Date: 11.MAR.2021 22:35:54

64QAM



Date: 11.MAR.2021 22:35:37

256QAM



Date: 11.MAR.2021 22:35:18



Occupied Bandwidth

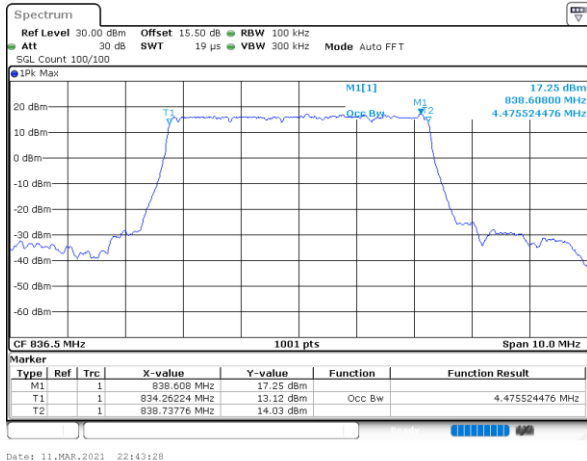
Mode	FR1 n5 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.48		8.93		13.49		17.86	

Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.49	9.27	9.27	14.09	14.18	18.90	18.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.51	4.50	9.29	9.29	14.18	14.12	18.98	18.86



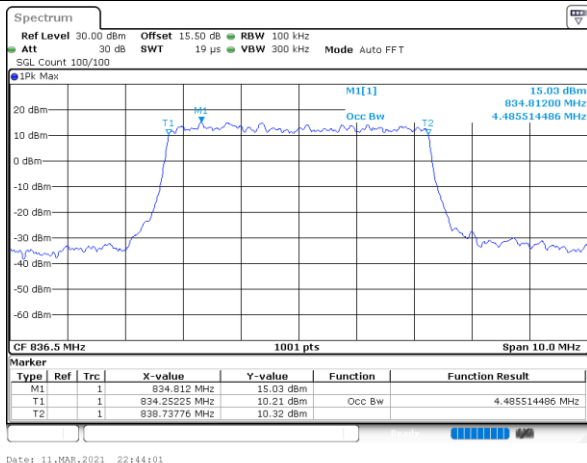
FR1 n5 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

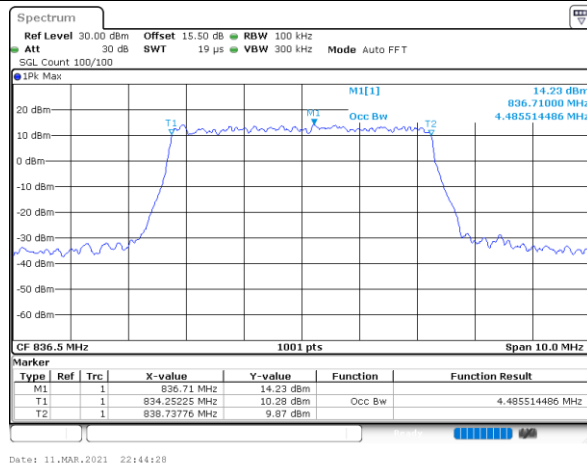


FR1 n5 / 5MHz / CP OFDM / Middle Channel / Full RB

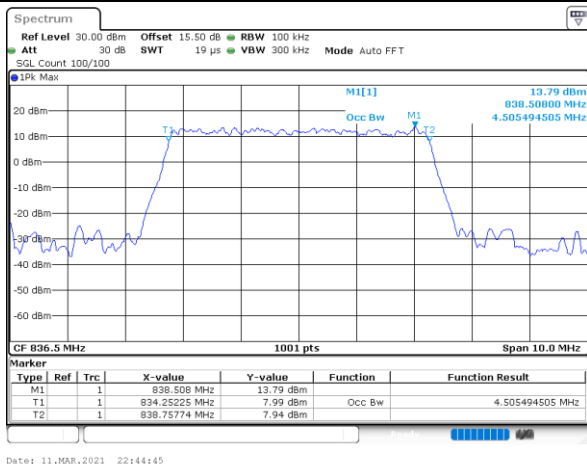
QPSK



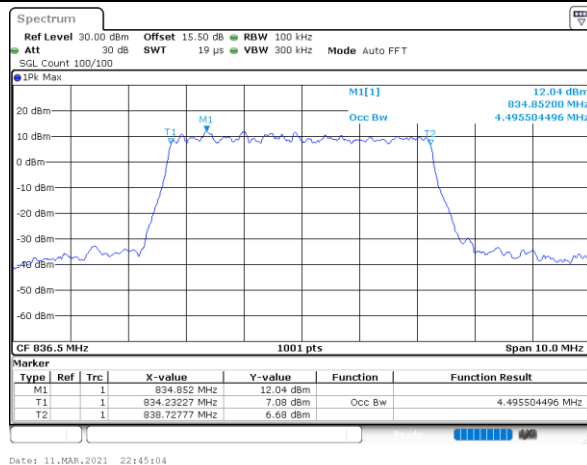
16QAM



64QAM



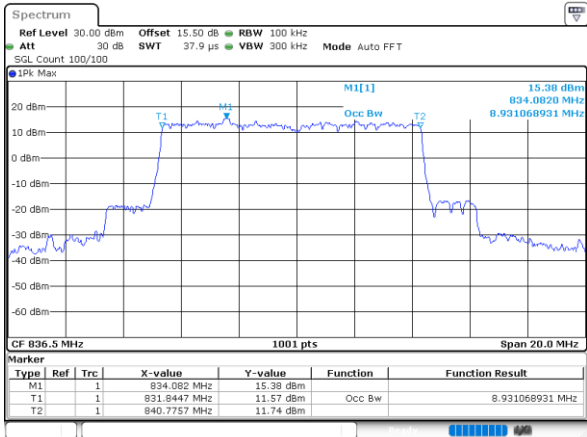
256QAM





FR1 n5 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

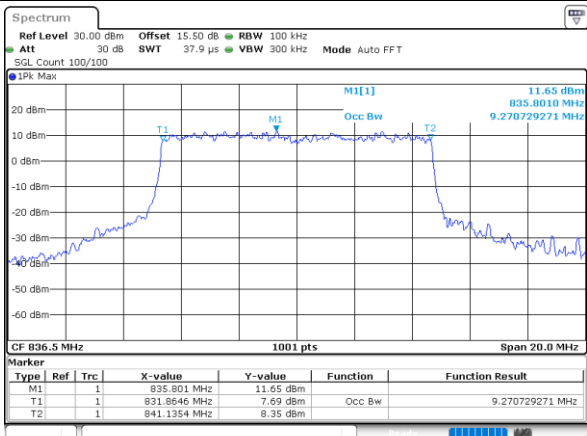
PI/2 BPSK



Date: 11.MAR.2021 22:42:21

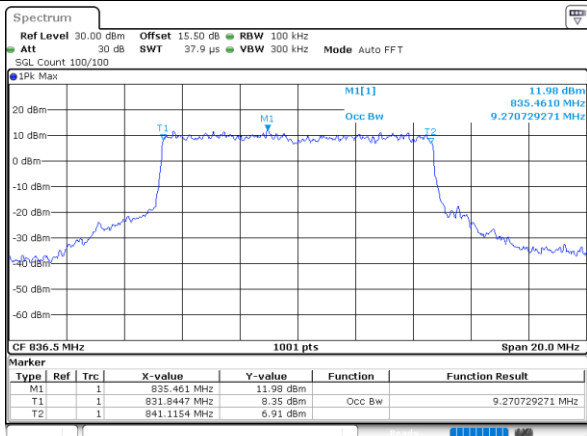
FR1 n5 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



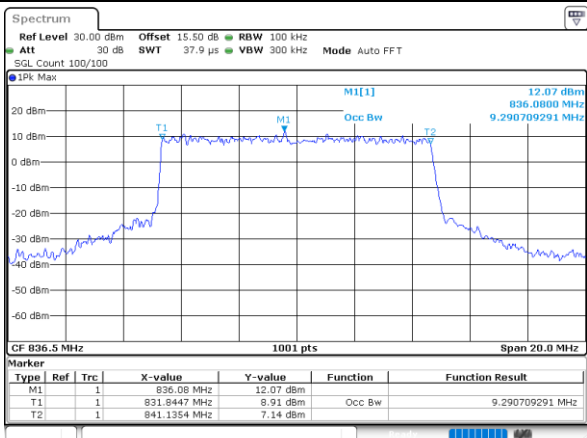
Date: 11.MAR.2021 22:41:52

16QAM



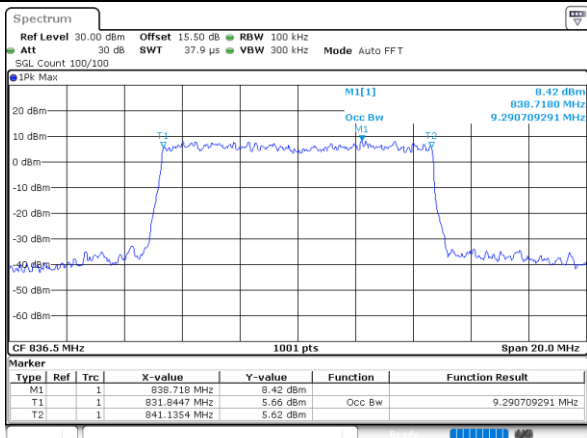
Date: 11.MAR.2021 22:41:35

64QAM



Date: 11.MAR.2021 22:41:16

256QAM

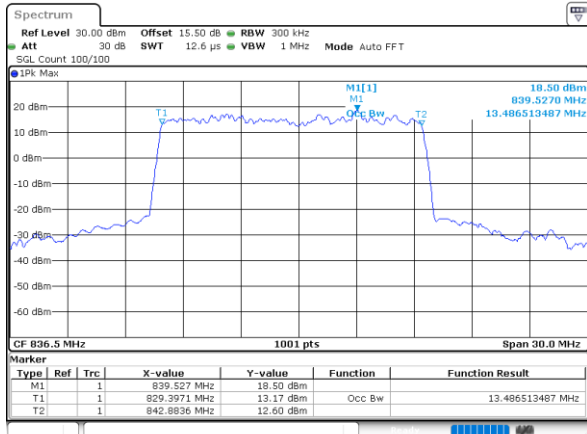


Date: 11.MAR.2021 22:40:58



FR1 n5 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

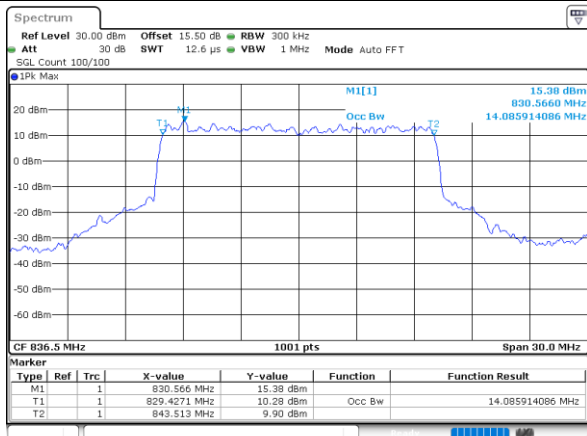
PI/2 BPSK



Date: 11.MAR.2021 22:37:44

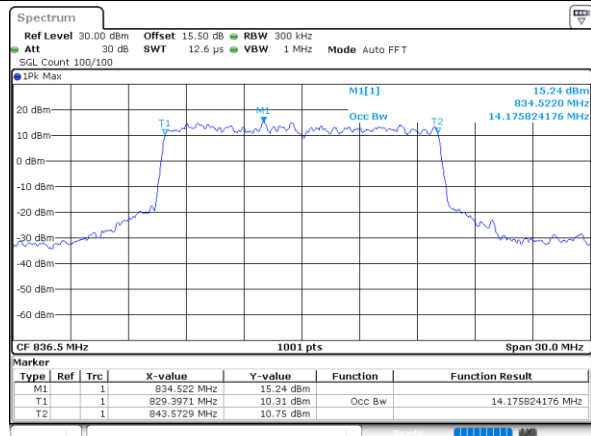
FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



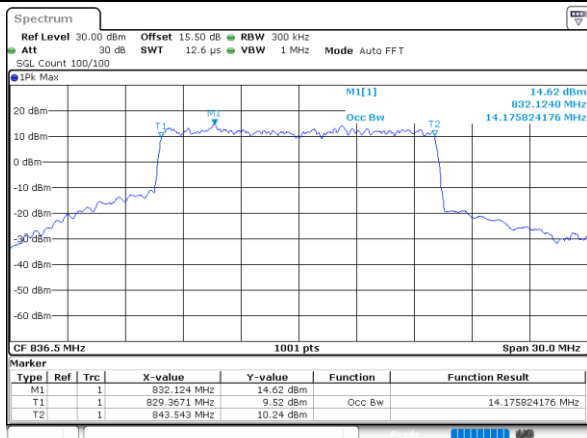
Date: 11.MAR.2021 22:38:14

16QAM



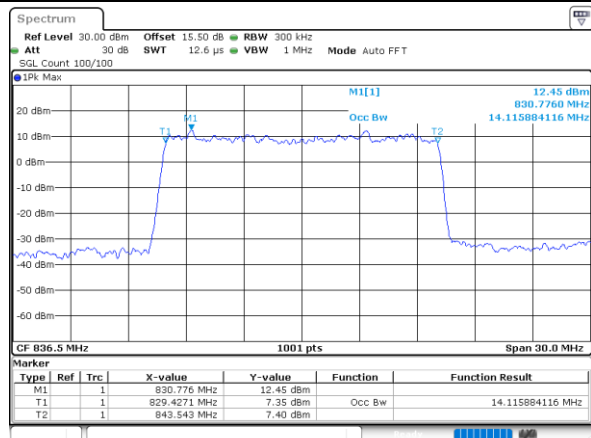
Date: 11.MAR.2021 22:38:11

64QAM



Date: 11.MAR.2021 22:38:40

256QAM

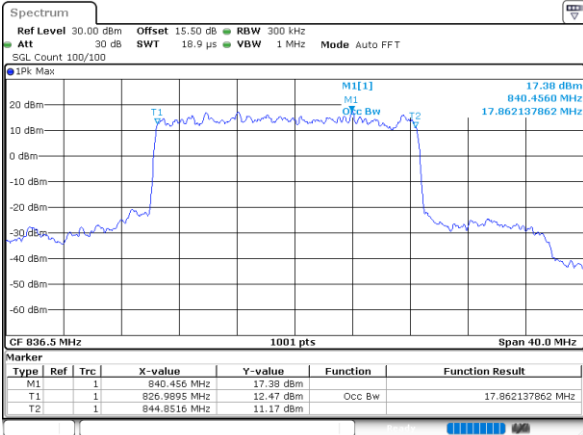


Date: 11.MAR.2021 22:39:10



FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

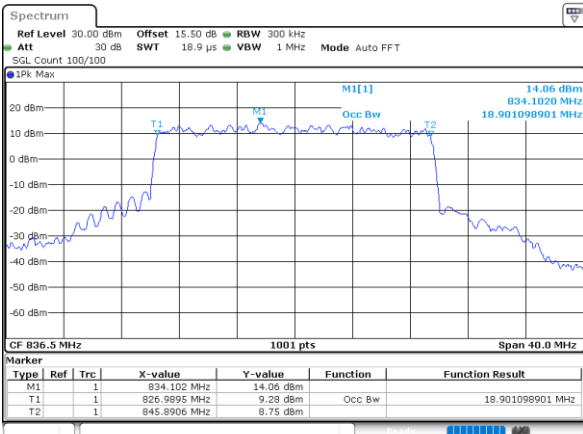
PI/2 BPSK



Date: 11.MAR.2021 22:36:36

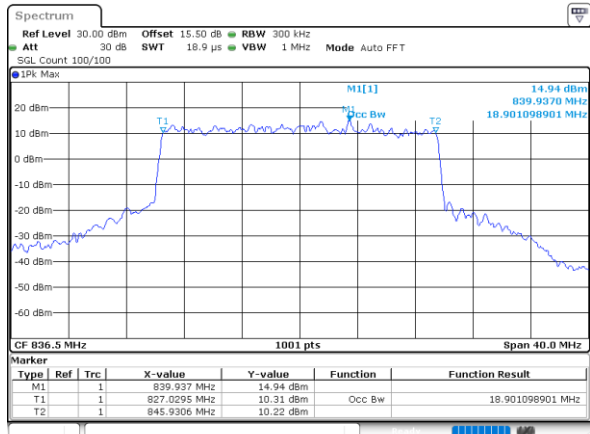
FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



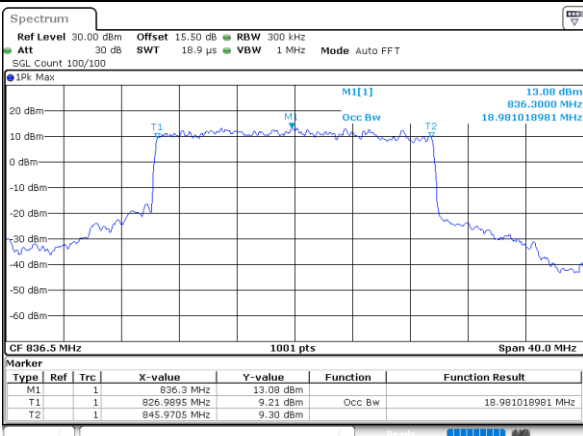
Date: 11.MAR.2021 22:36:05

16QAM



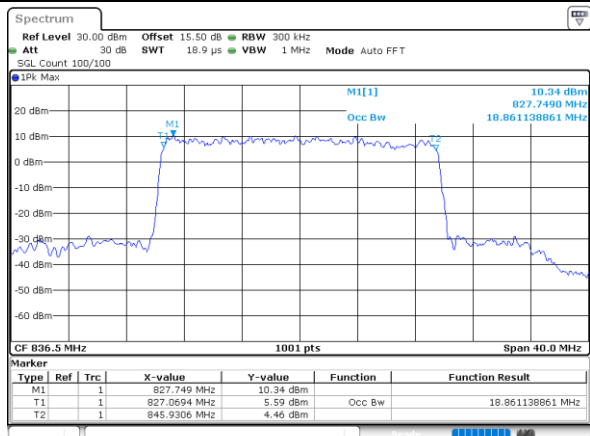
Date: 11.MAR.2021 22:35:48

64QAM



Date: 11.MAR.2021 22:35:32

256QAM



Date: 11.MAR.2021 22:34:56

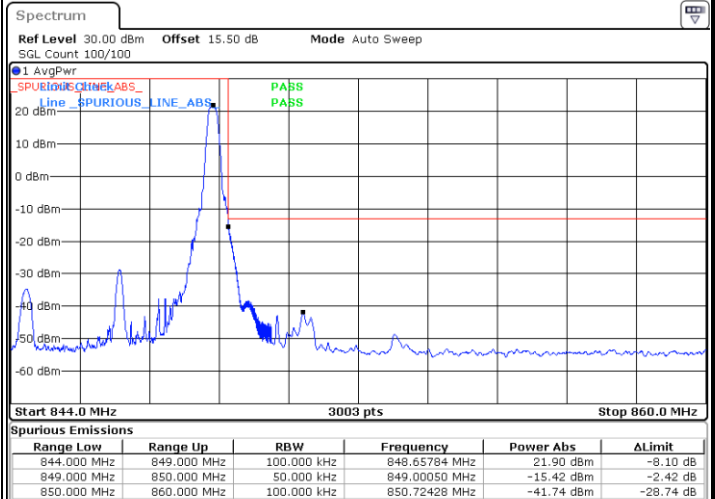
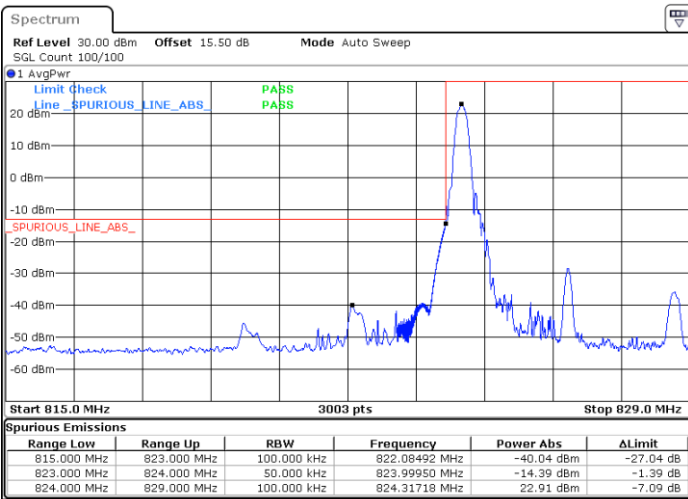


Conducted Band Edge

FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

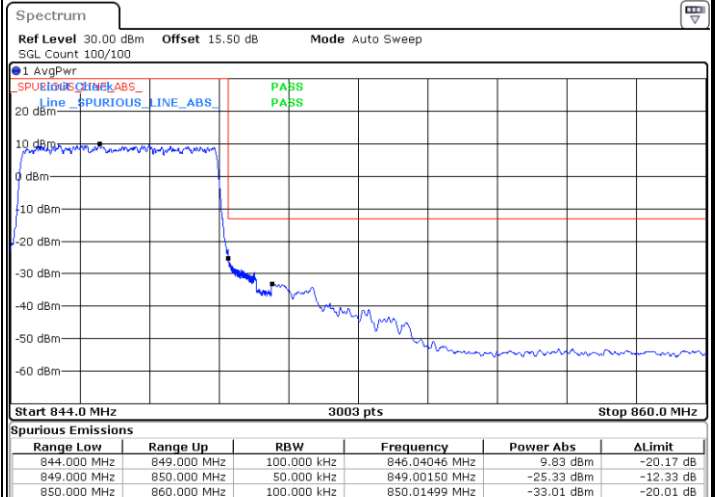
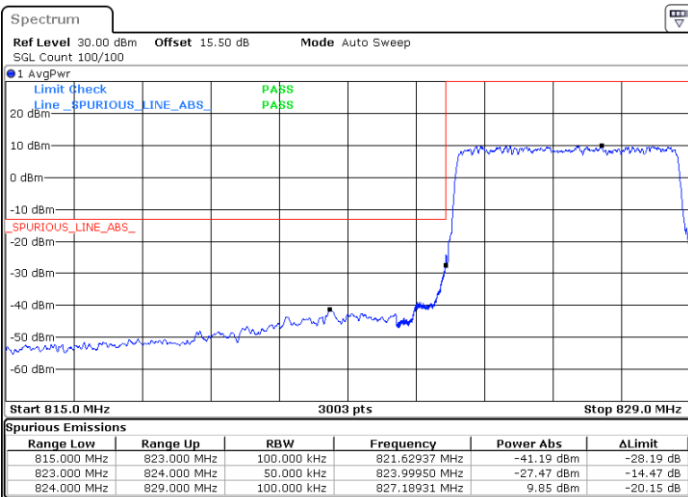


Date: 11.MAR.2021 22:46:47

Date: 11.MAR.2021 23:04:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.MAR.2021 23:01:57

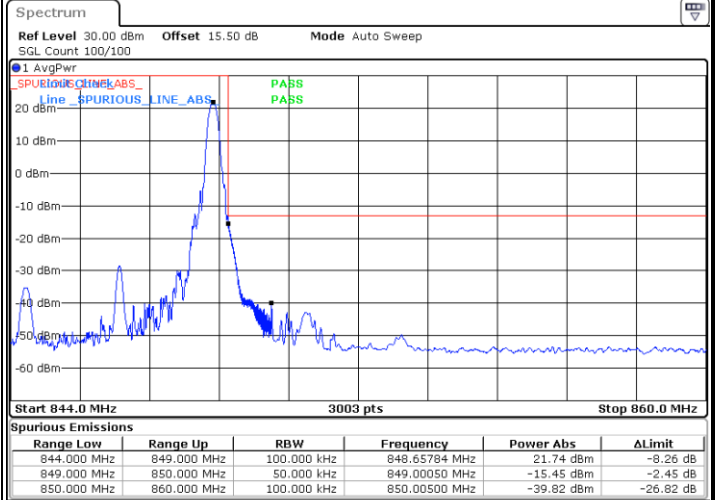
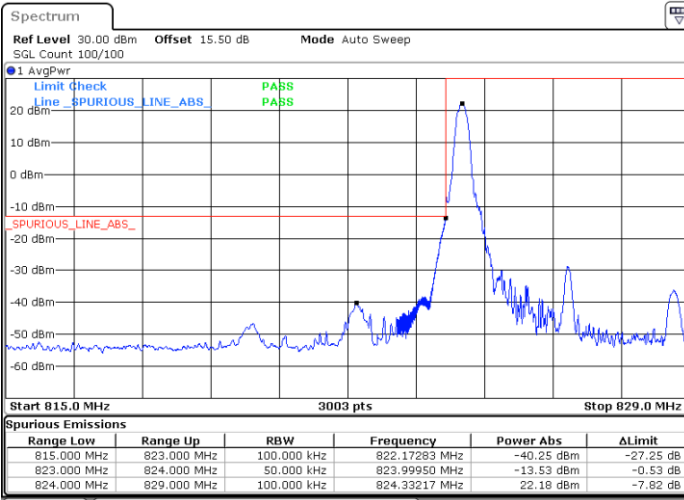
Date: 11.MAR.2021 23:11:46



FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

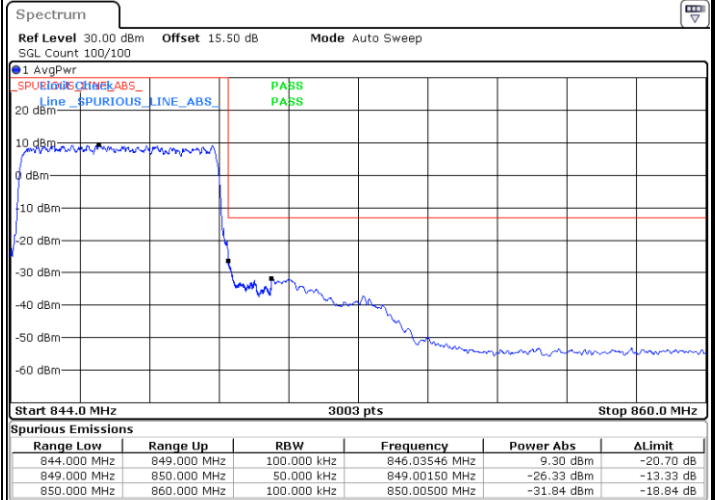
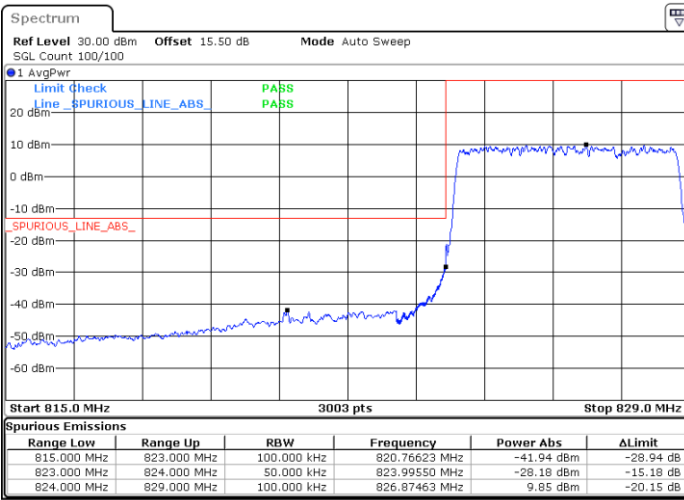


Date: 11.MAR.2021 22:48:54

Date: 11.MAR.2021 23:05:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.MAR.2021 23:00:48

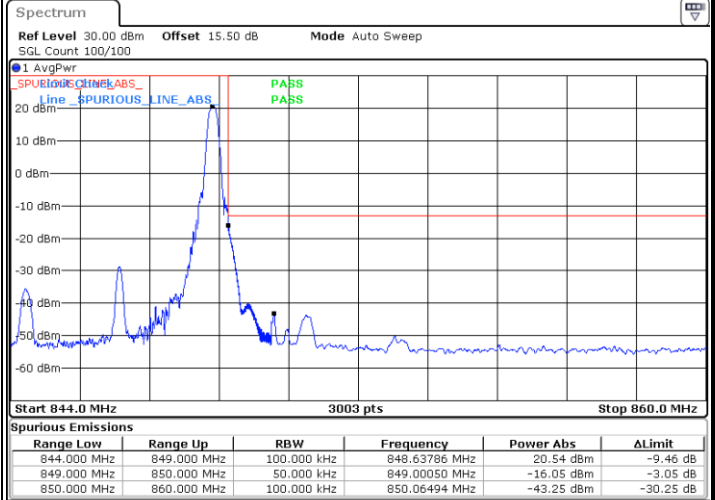
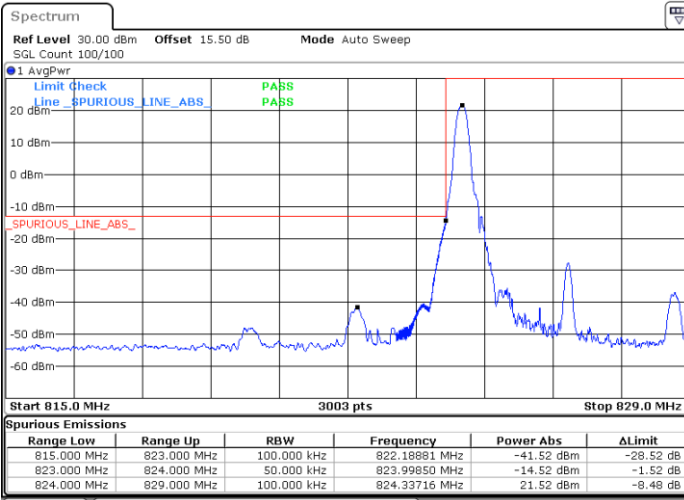
Date: 11.MAR.2021 23:10:45



FR1 n5 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

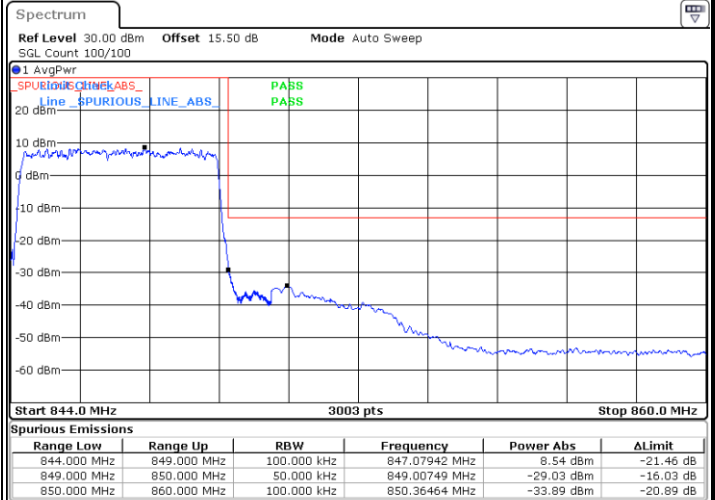
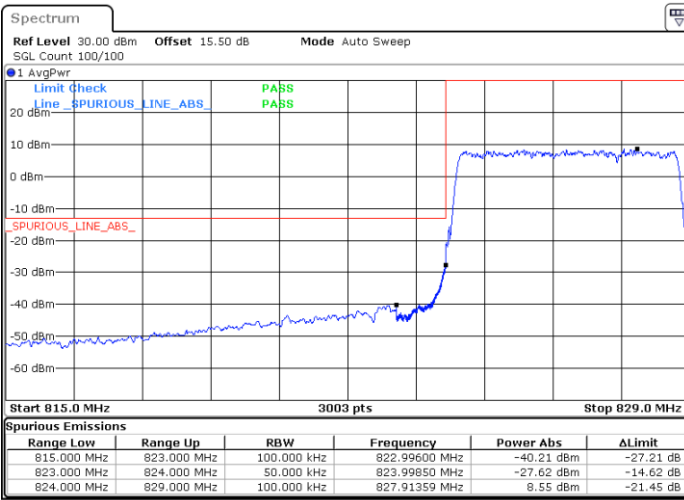


Date: 11.MAR.2021 22:49:30

Date: 11.MAR.2021 23:05:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.MAR.2021 23:00:15

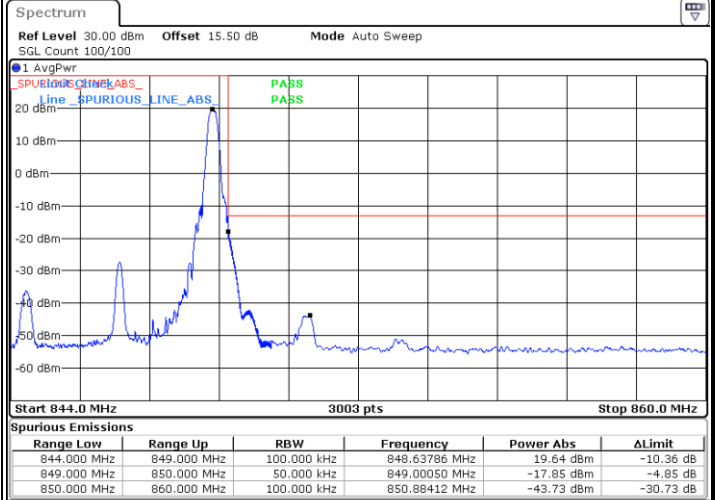
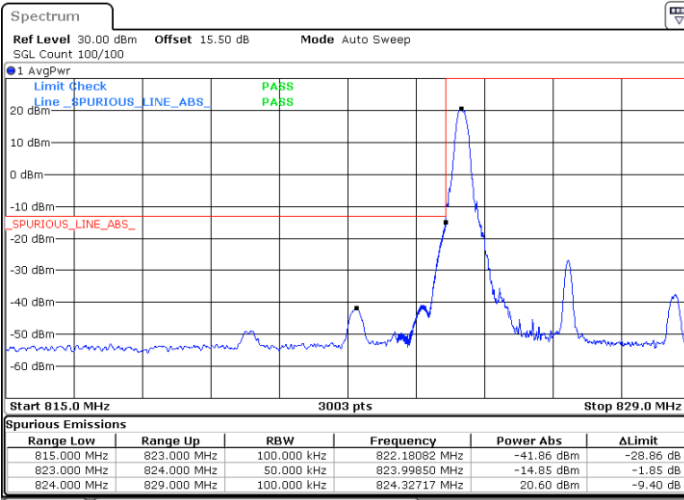
Date: 11.MAR.2021 23:09:56



FR1 n5 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

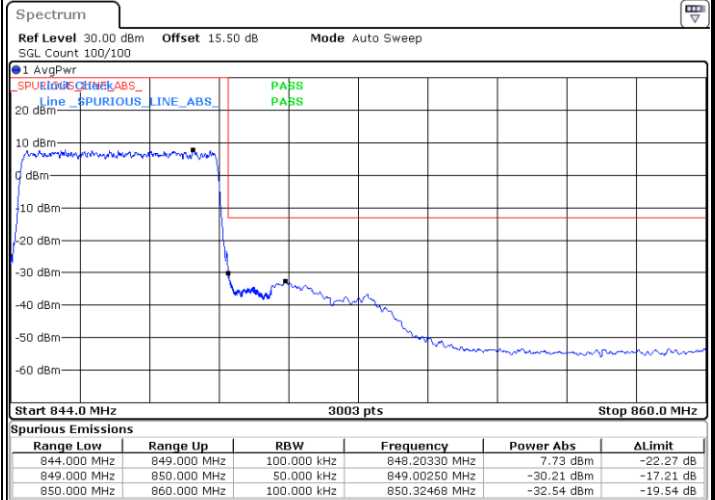
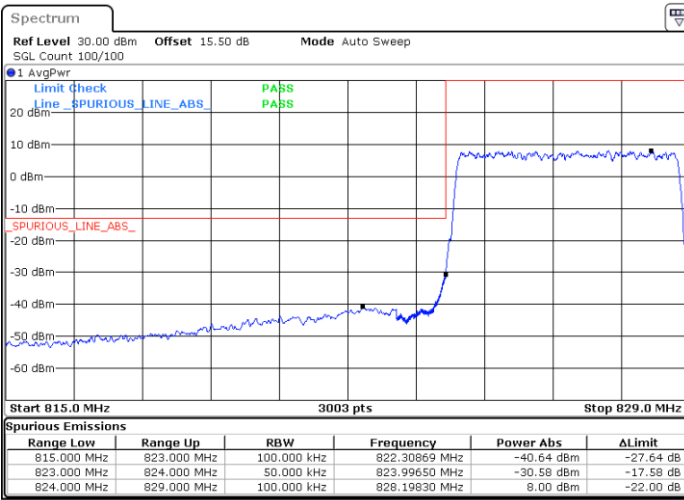


Date: 11.MAR.2021 22:53:03

Date: 11.MAR.2021 23:06:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.MAR.2021 22:59:44

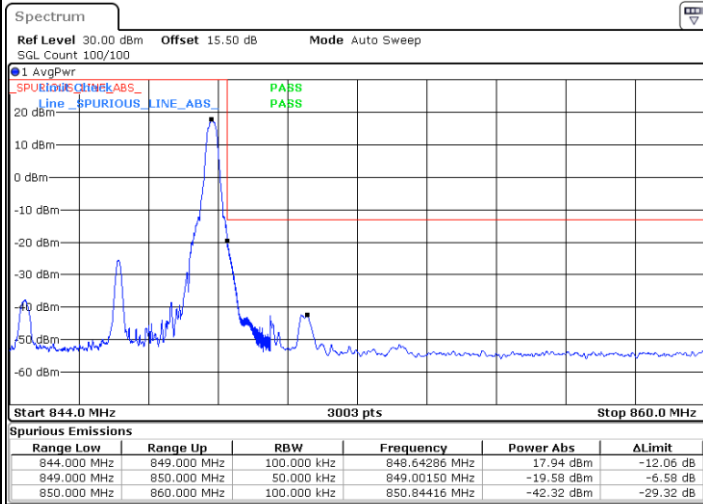
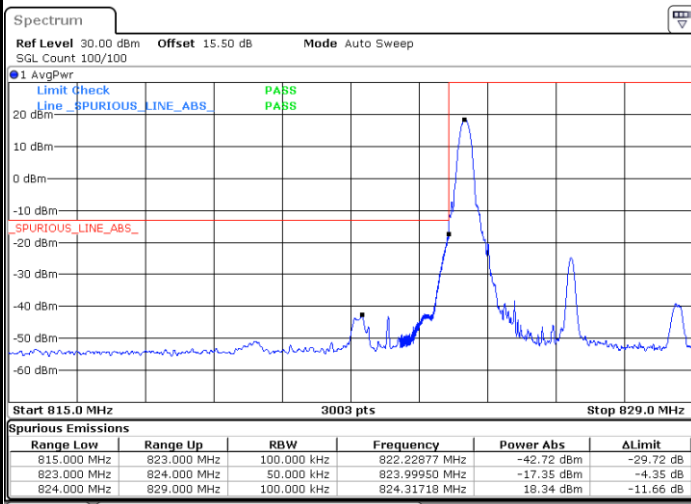
Date: 11.MAR.2021 23:09:24



FR1 n5 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

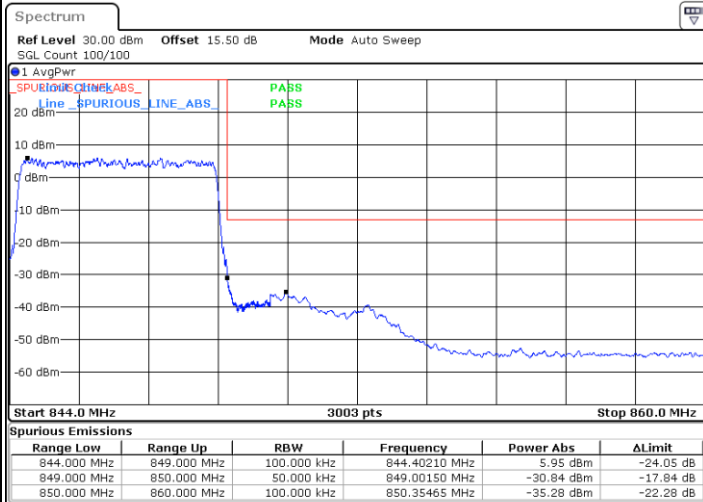
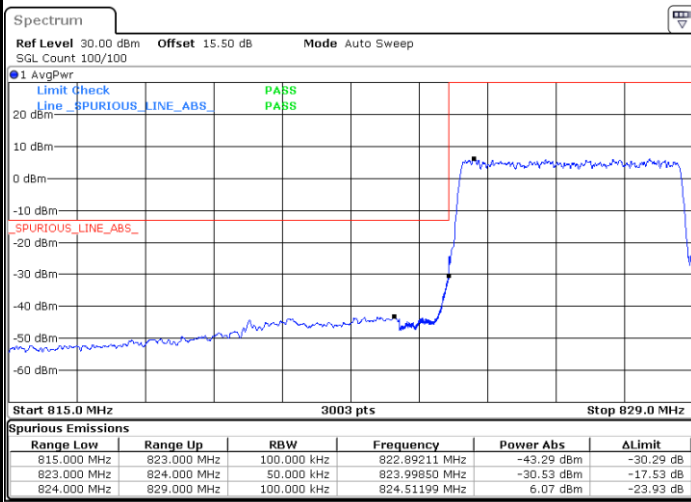


Date: 11.MAR.2021 22:58:01

Date: 11.MAR.2021 23:07:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.MAR.2021 22:59:14

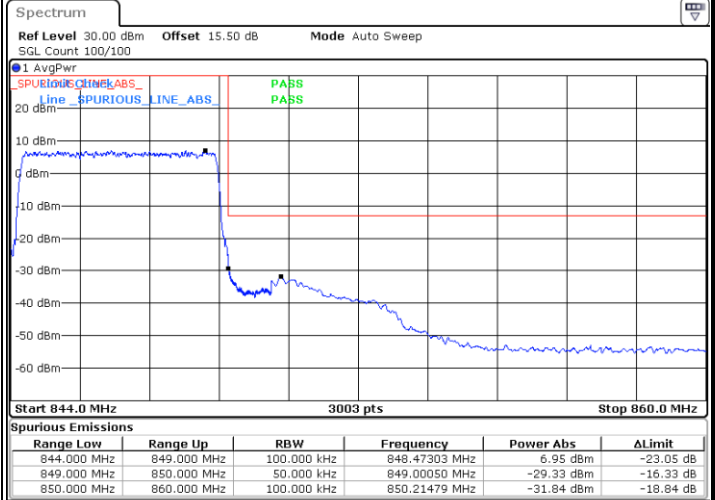
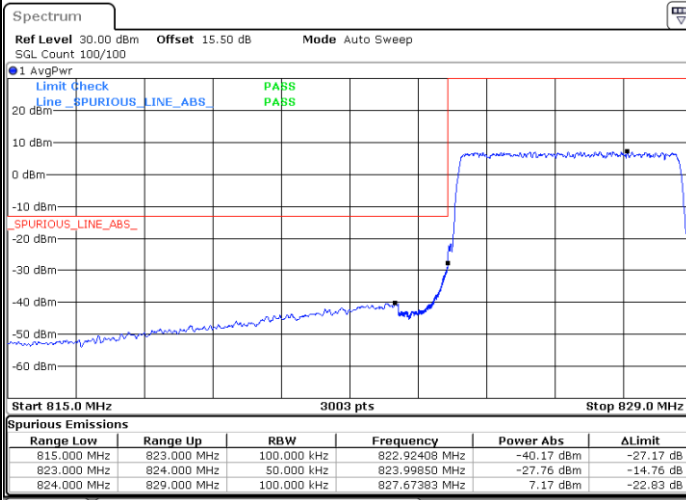
Date: 11.MAR.2021 23:08:12



FR1 n5 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



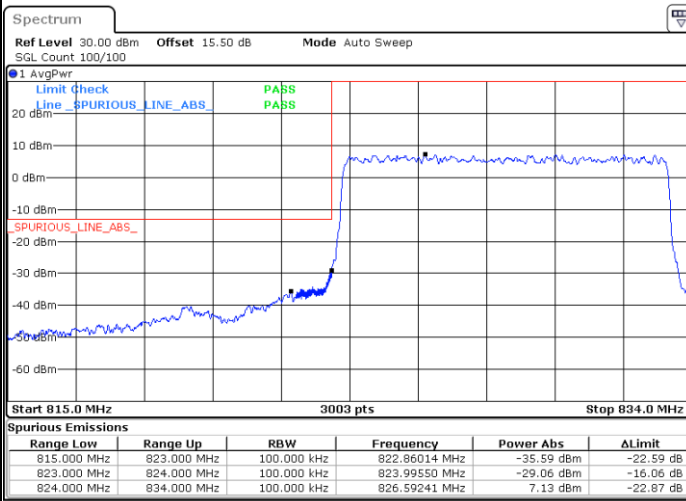
Date: 11.MAR.2021 23:02:47

Date: 11.MAR.2021 23:03:37

FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 11.MAR.2021 23:17:47

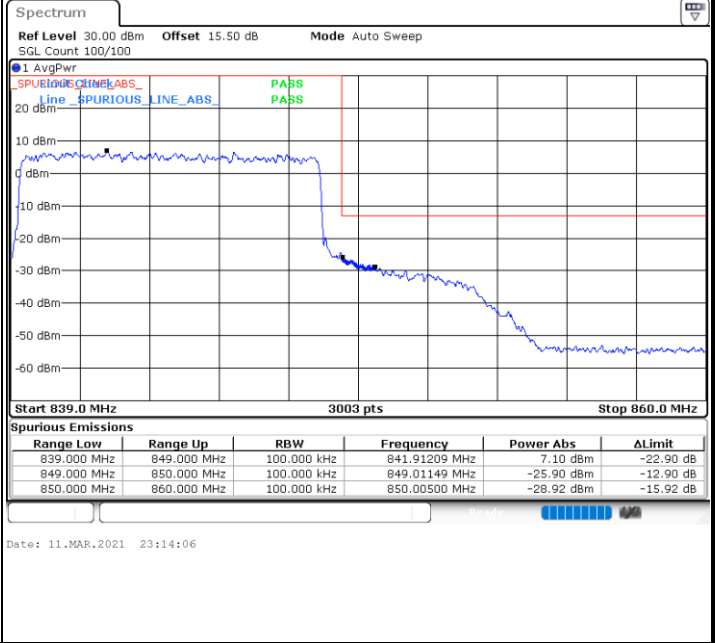
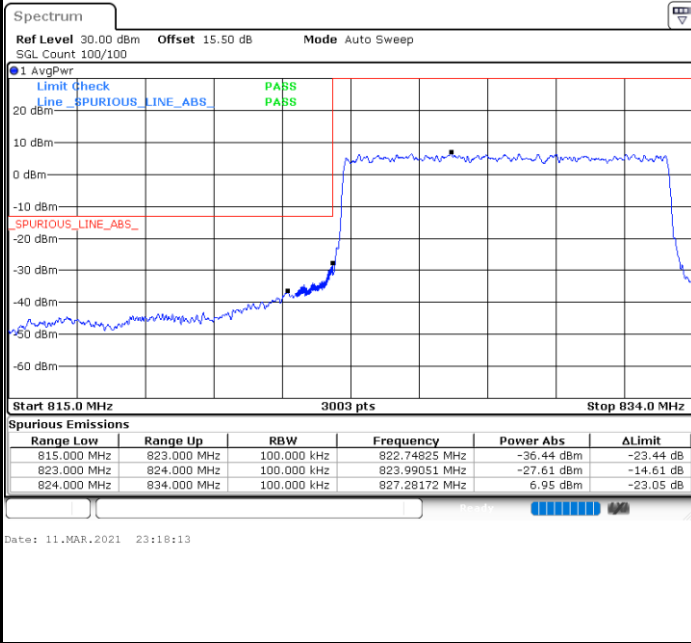
Date: 11.MAR.2021 23:13:40



FR1 n5 / 10MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

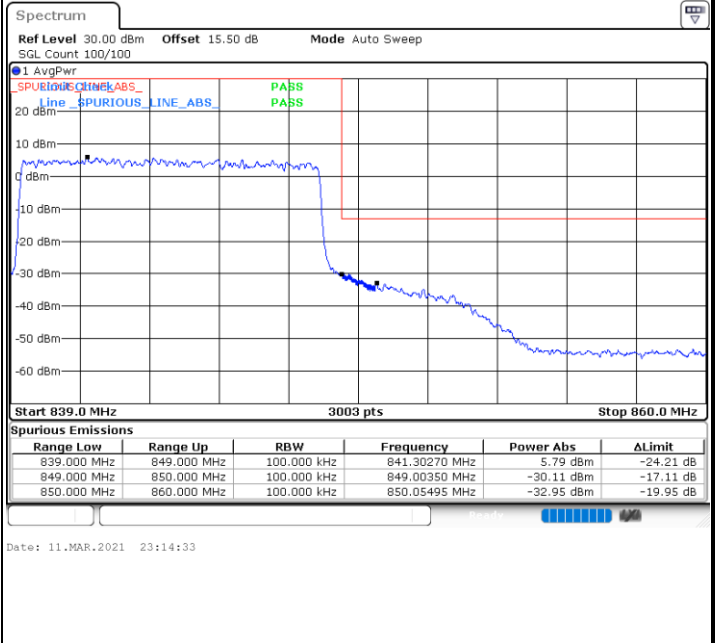
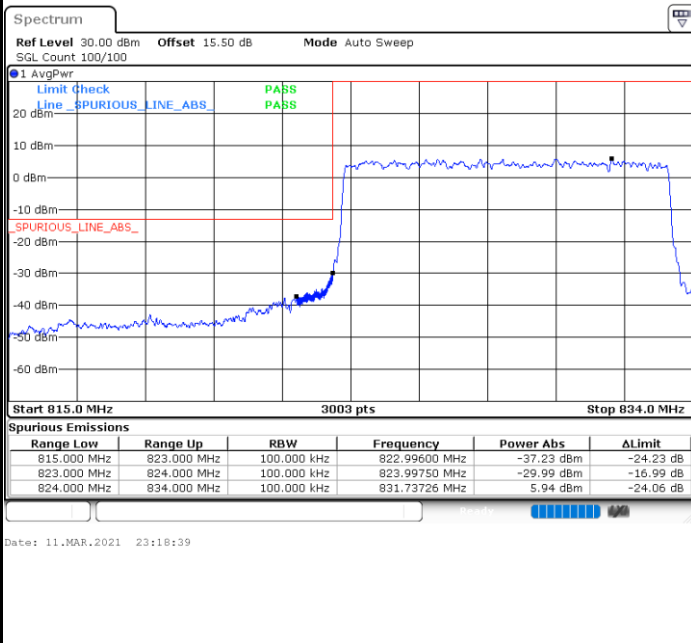
Highest Band Edge



FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

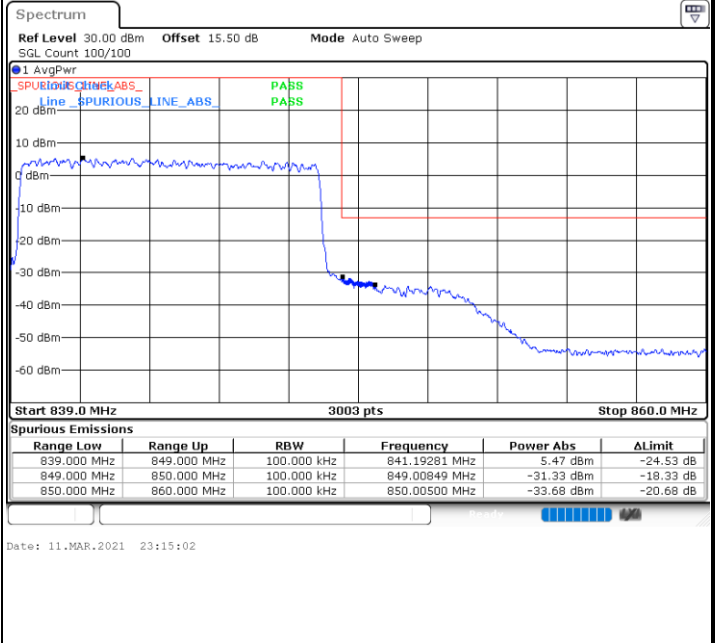
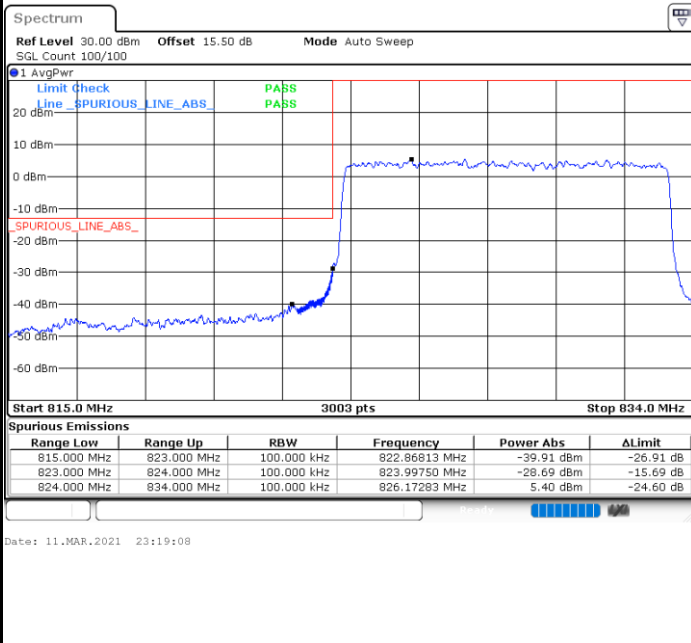




FR1 n5 / 10MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

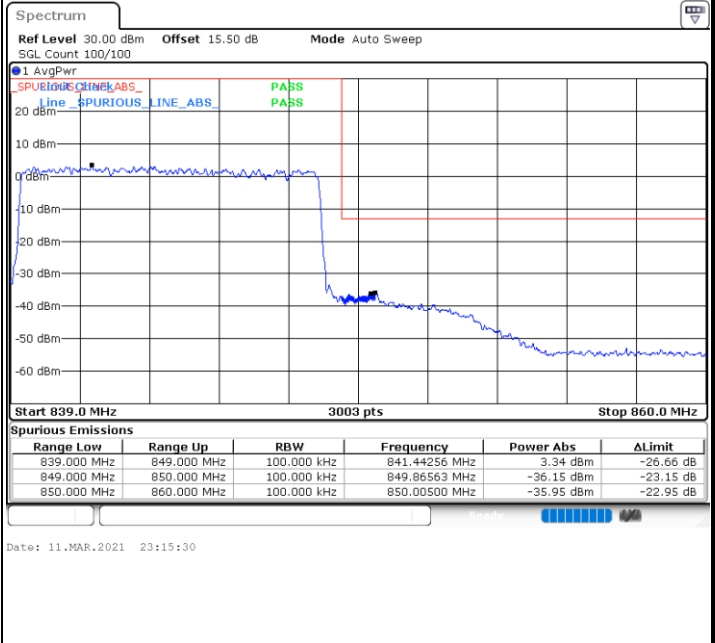
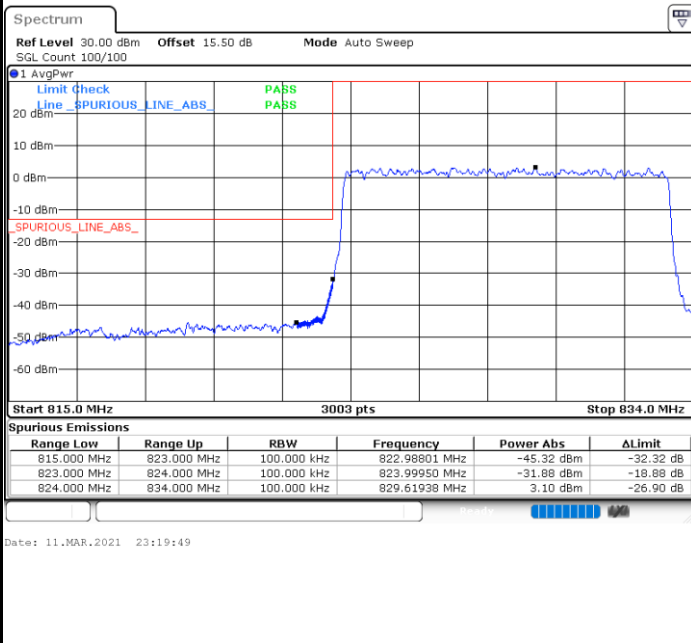
Highest Band Edge



FR1 n5 / 10MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge

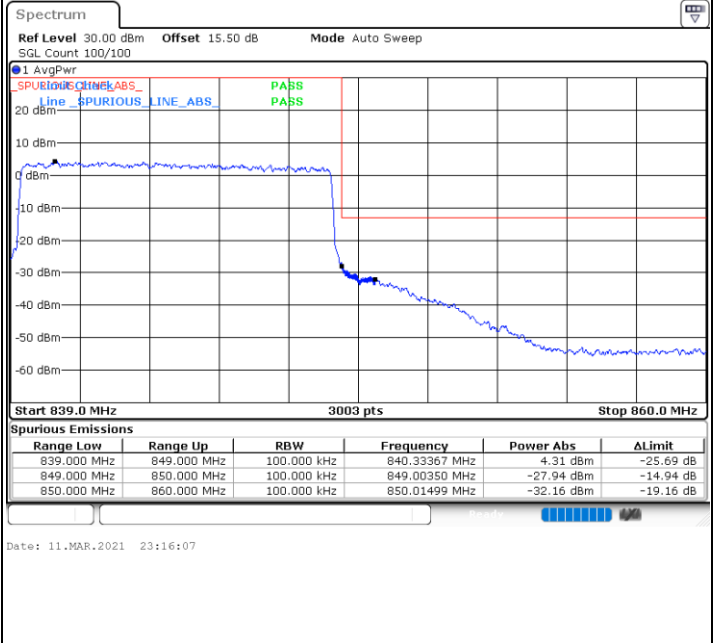
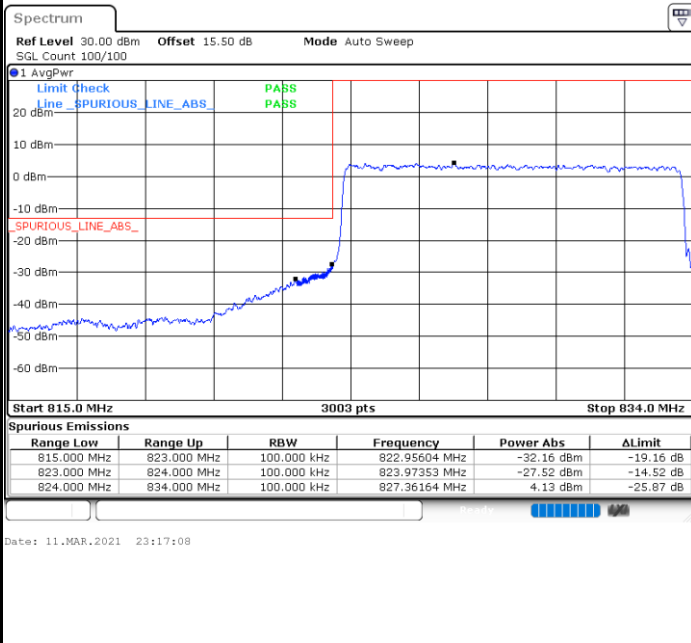




FR1 n5 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

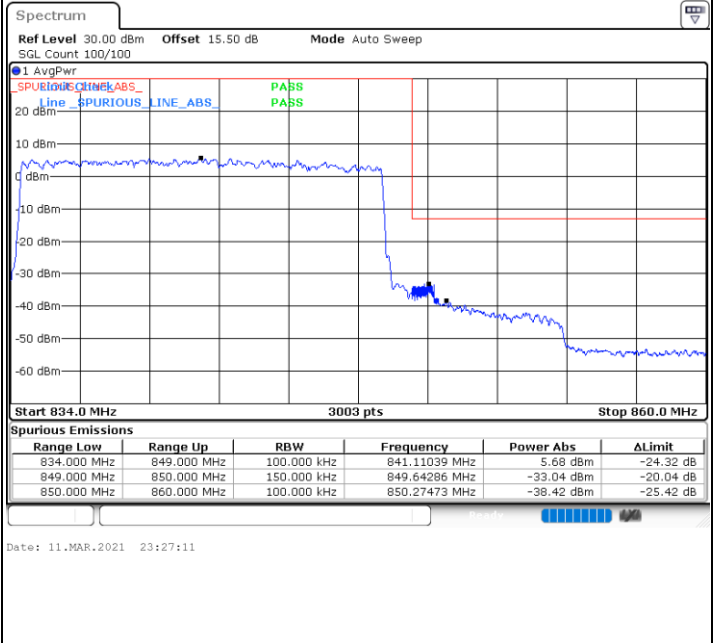
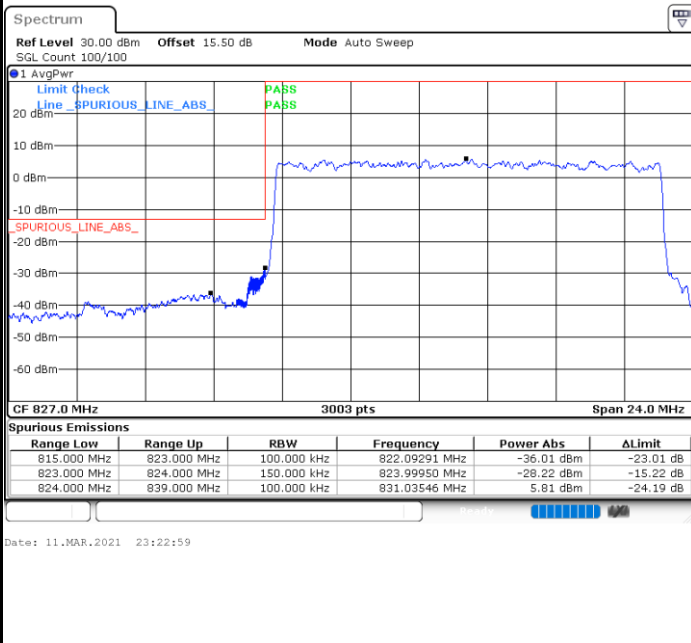
Highest Band Edge



FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge

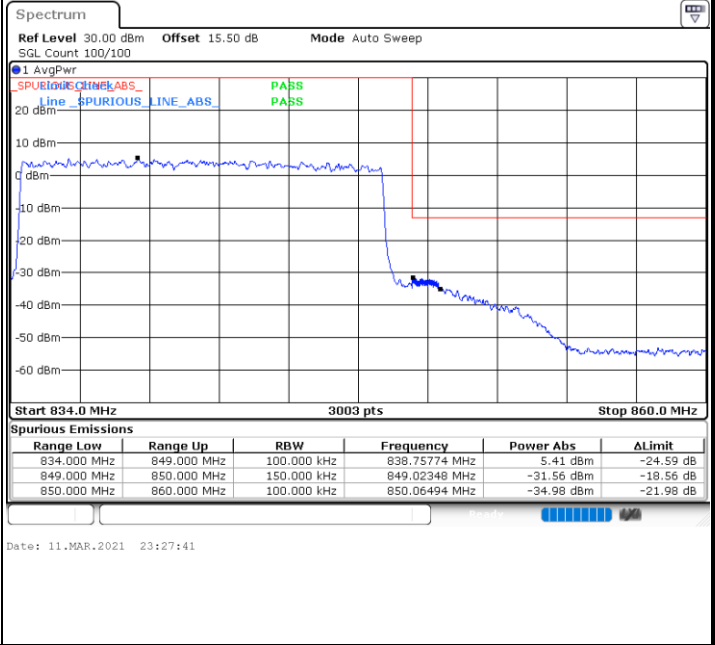
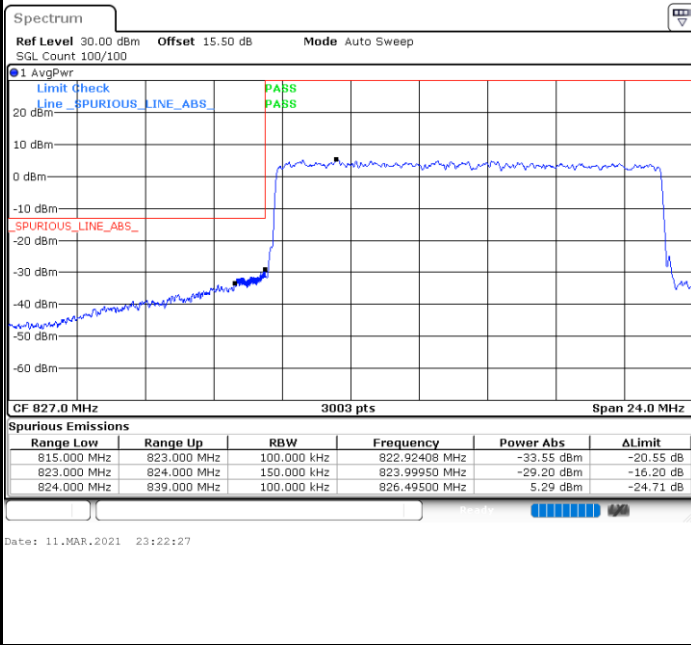




FR1 n5 / 15MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

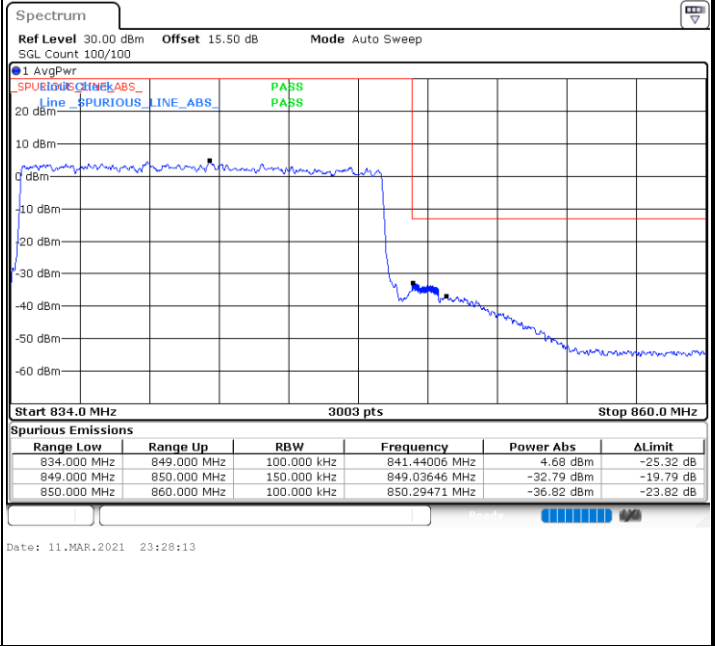
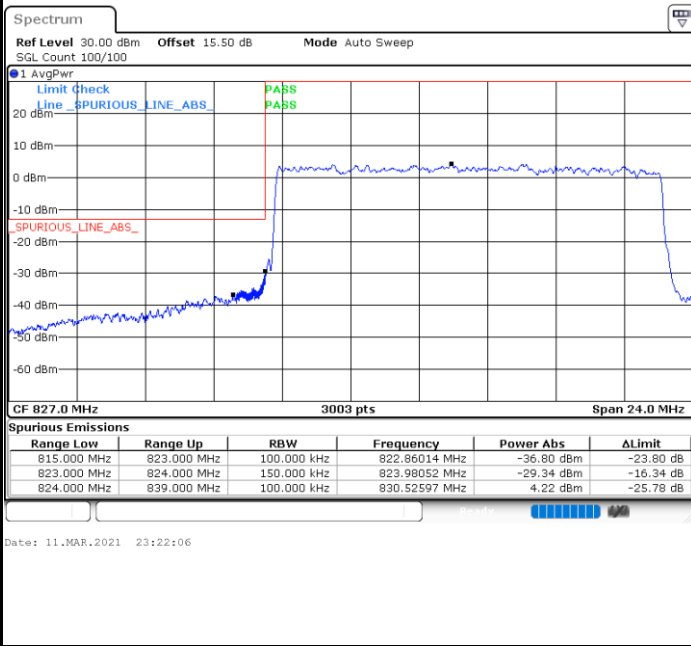
Highest Band Edge



FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

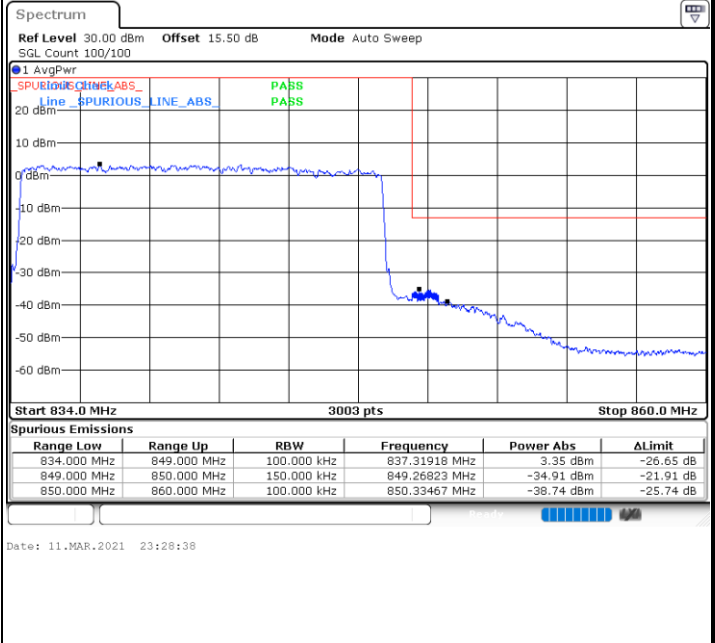
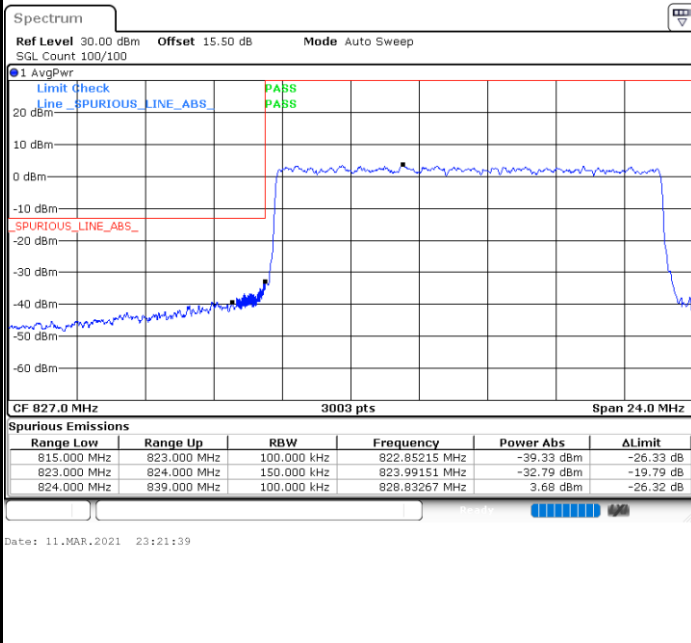




FR1 n5 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

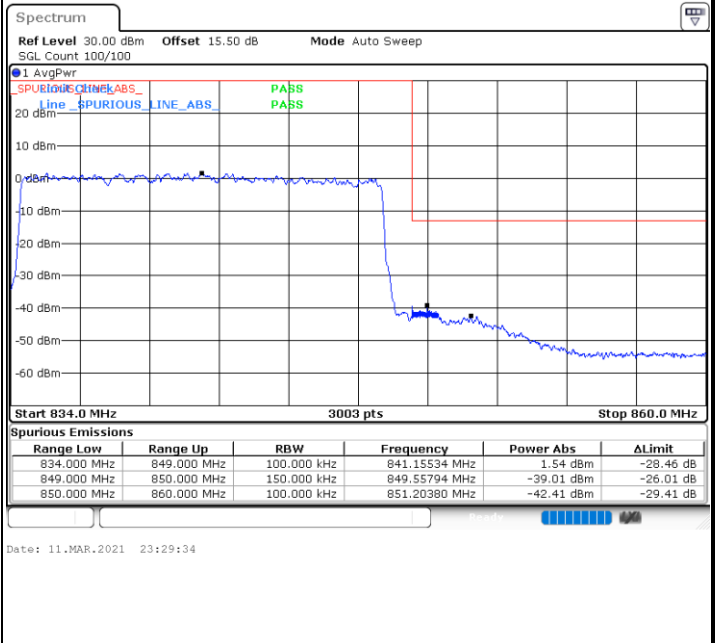
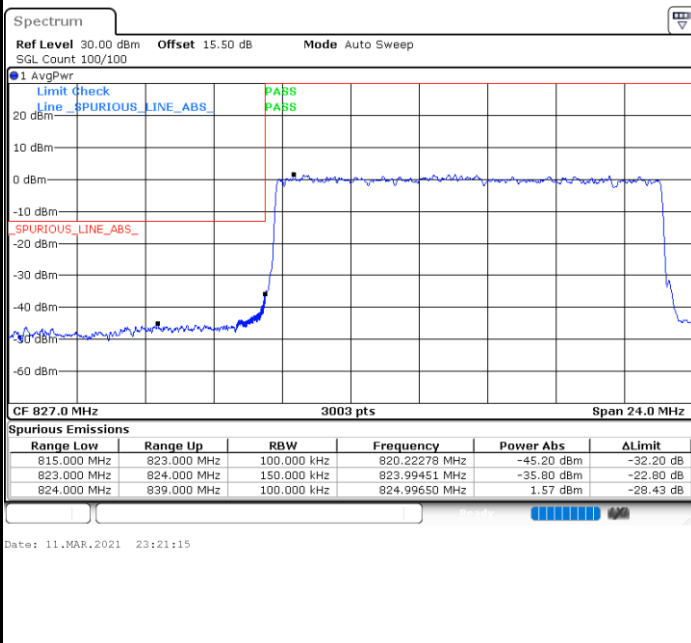
Highest Band Edge



FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge

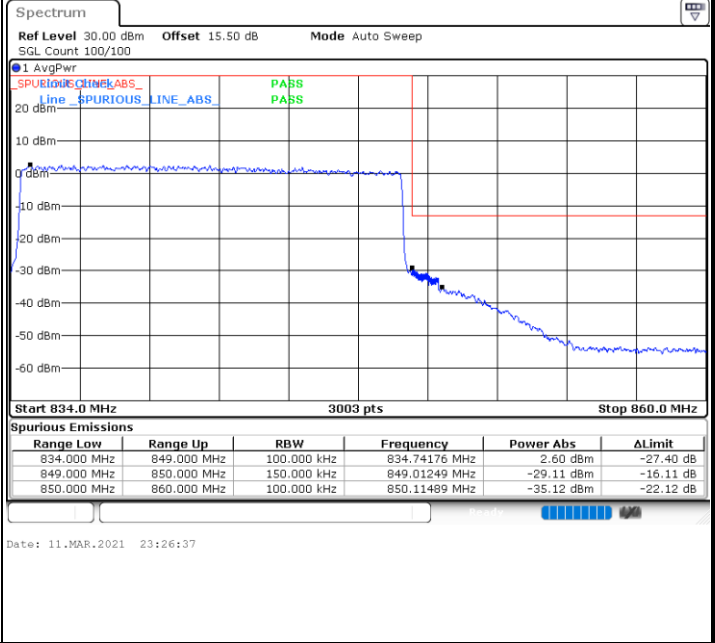
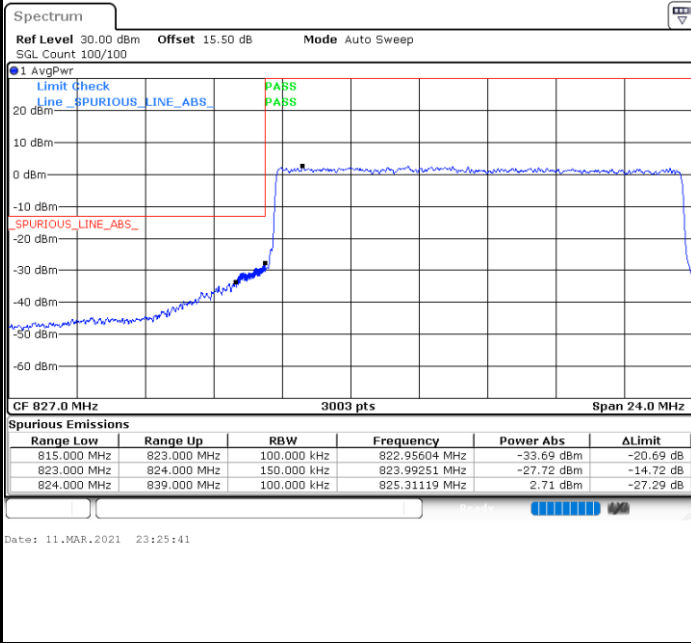




FR1 n5 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

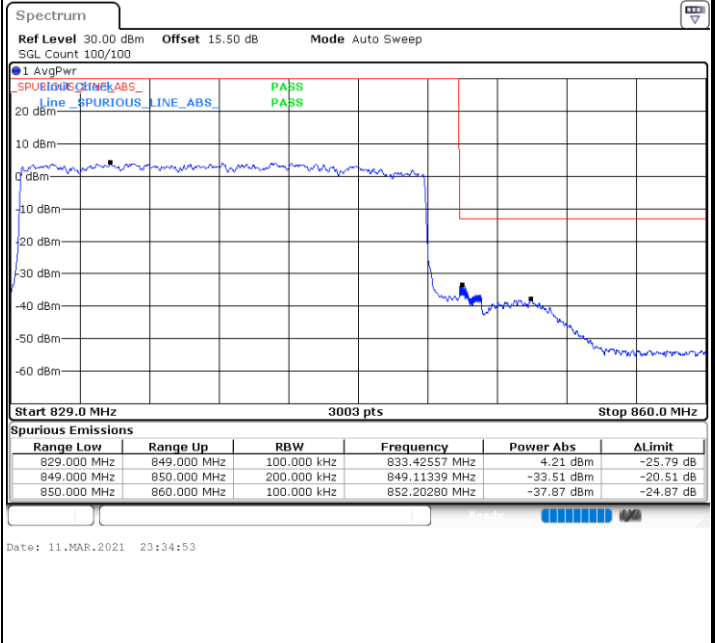
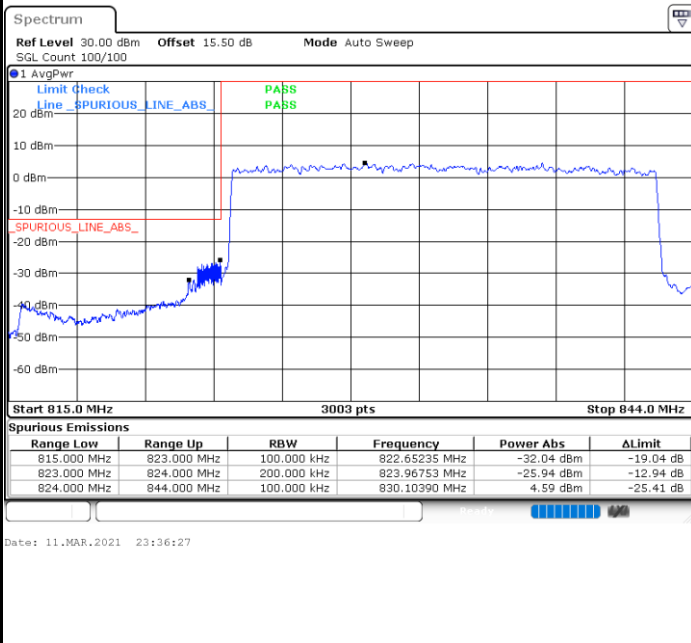
Highest Band Edge



FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge

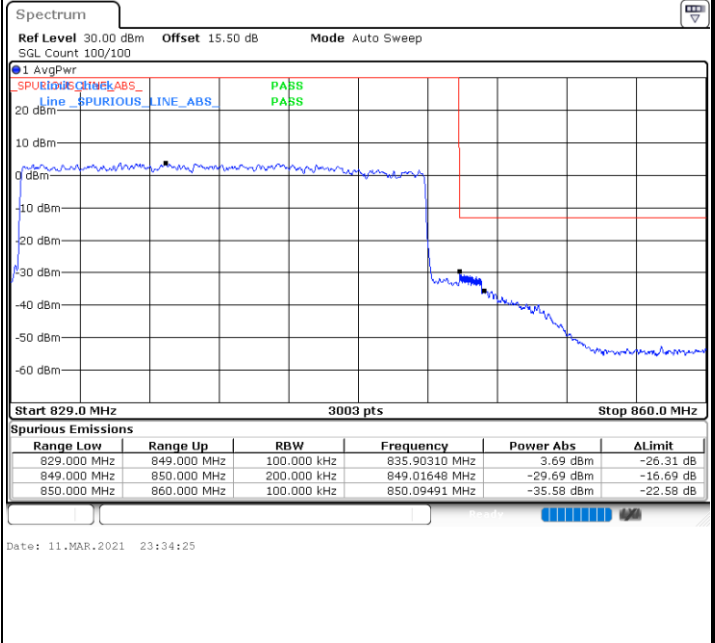
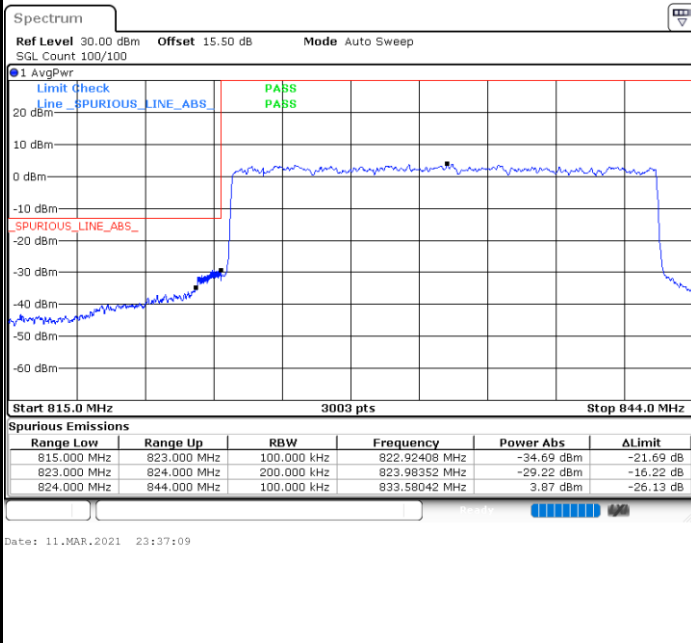




FR1 n5 / 20MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

