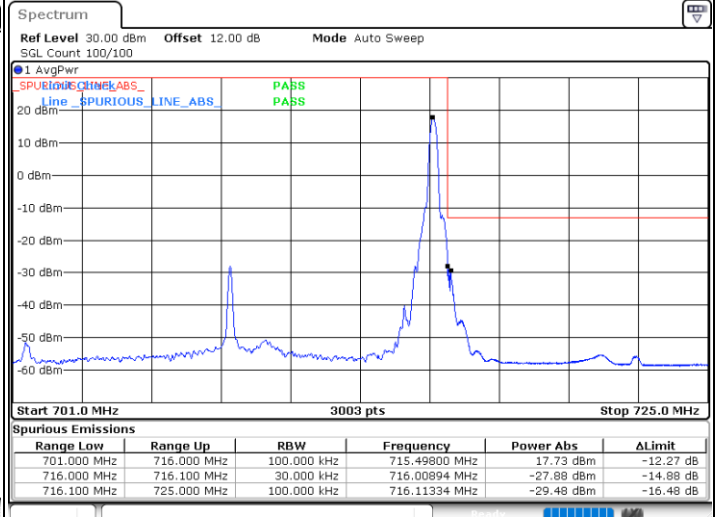
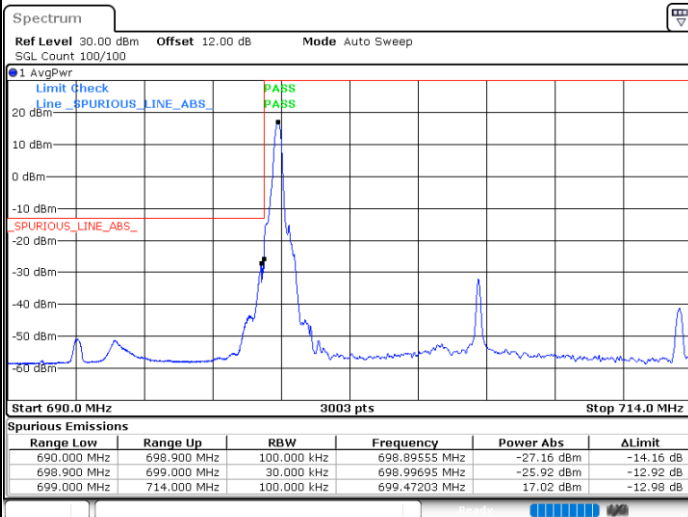




FR1 n12 / 15MHz / DFT-s-OFDM / 256QAM

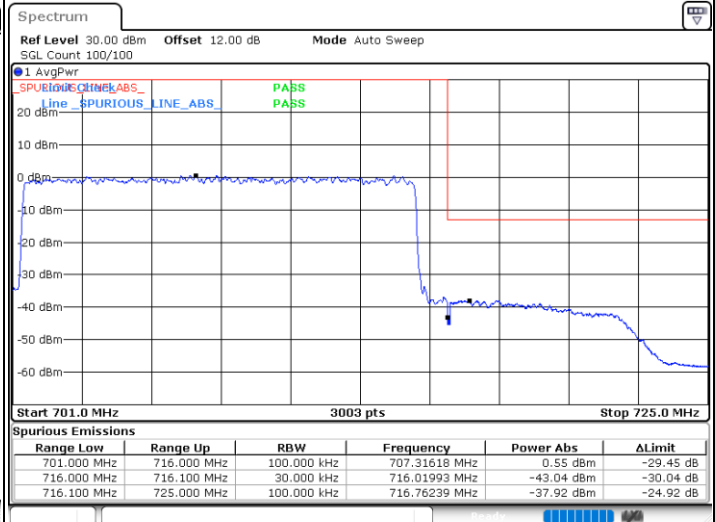
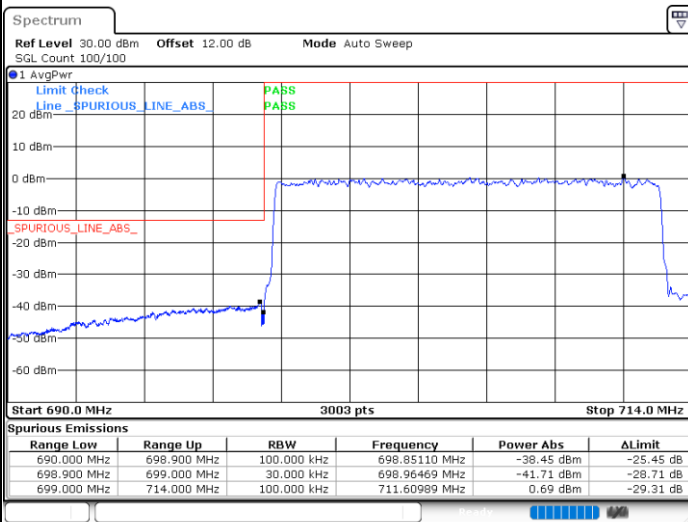
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

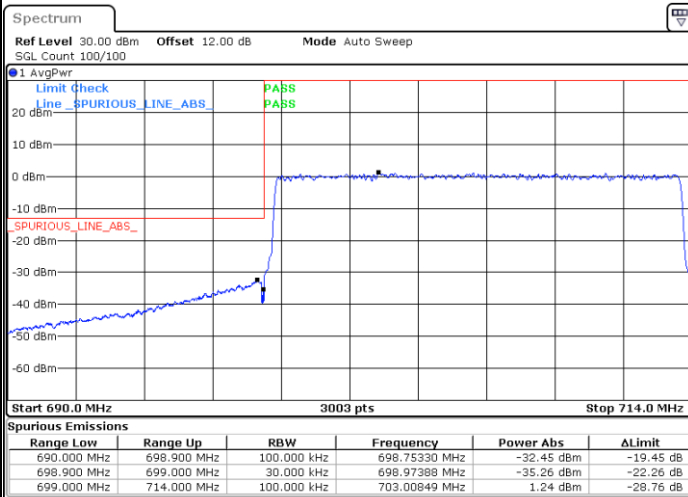




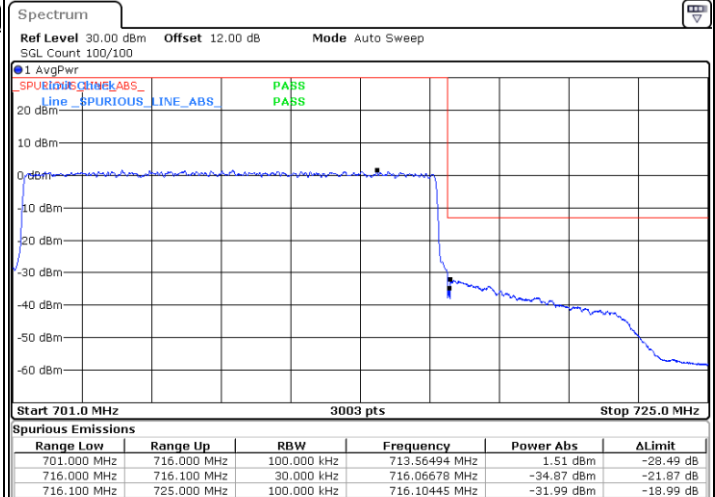
FR1 n12 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 09:44:01



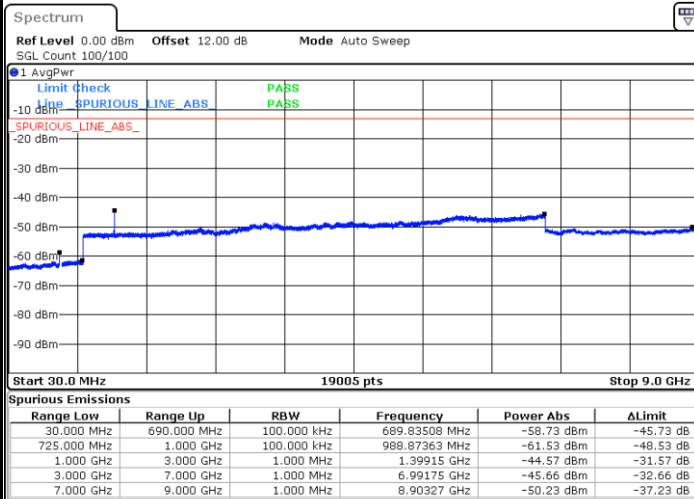
Date: 25.SEP.2020 10:19:07



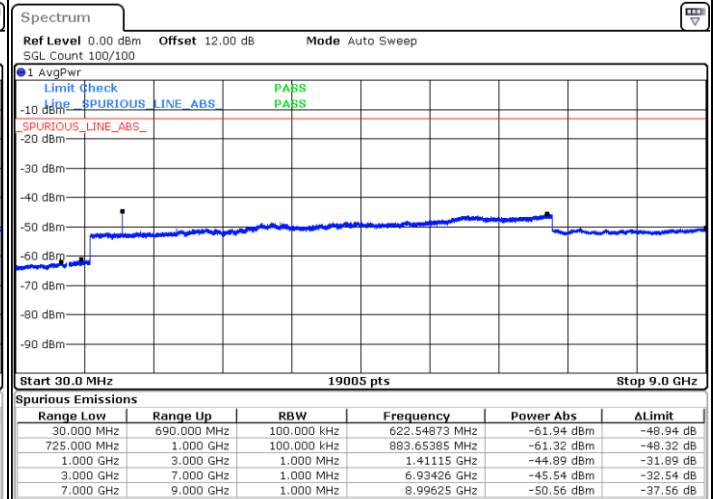
Conducted Spurious Emission

FR1 n12 / 5MHz / DFT-S OFDM / QPSK

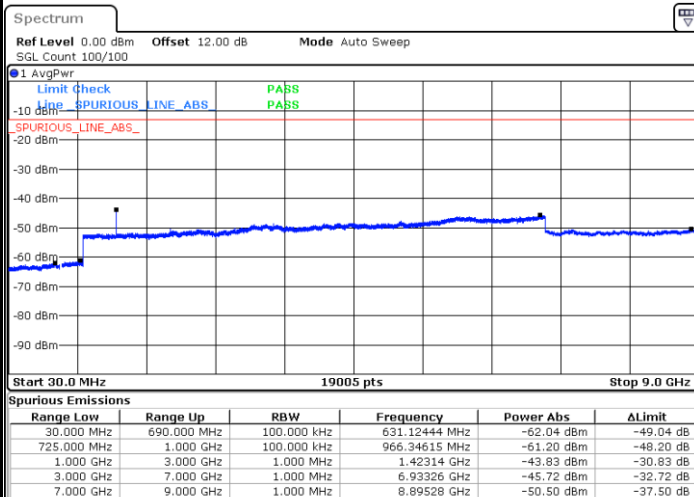
Lowest Channel / 1RB1



Middle Channel / 1RB1



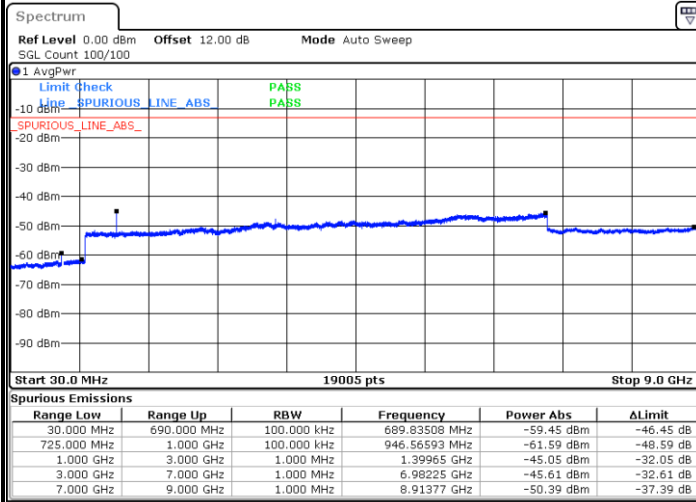
Highest Channel / 1RB1





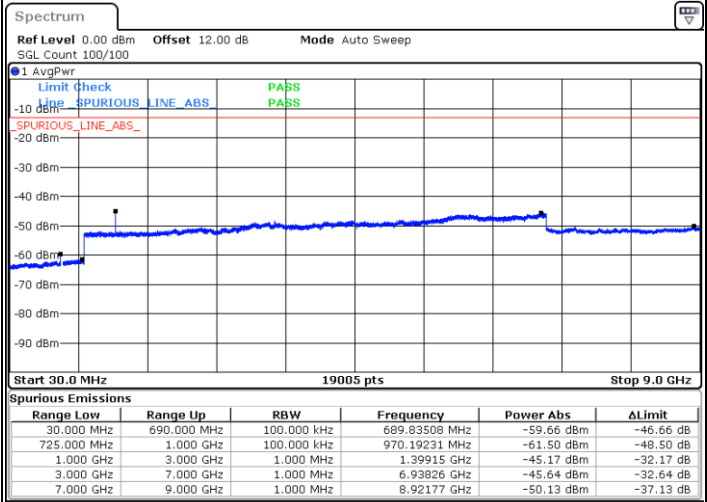
FR1 n12 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



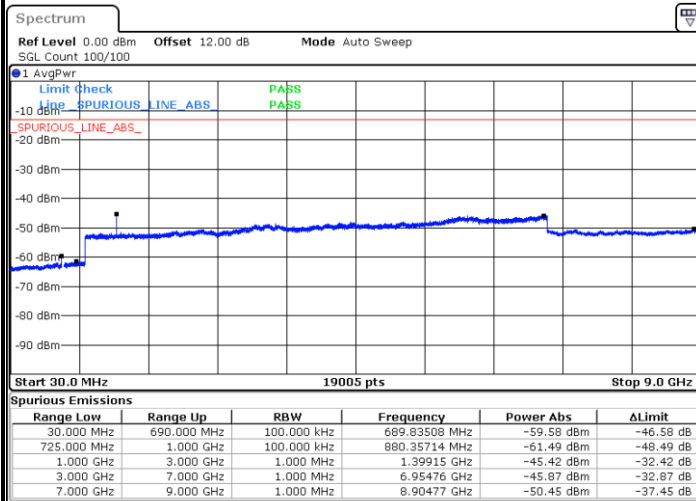
Date: 25.SEP.2020 11:34:26

Middle Channel / 1RB1



Date: 25.SEP.2020 10:48:29

Highest Channel / 1RB1

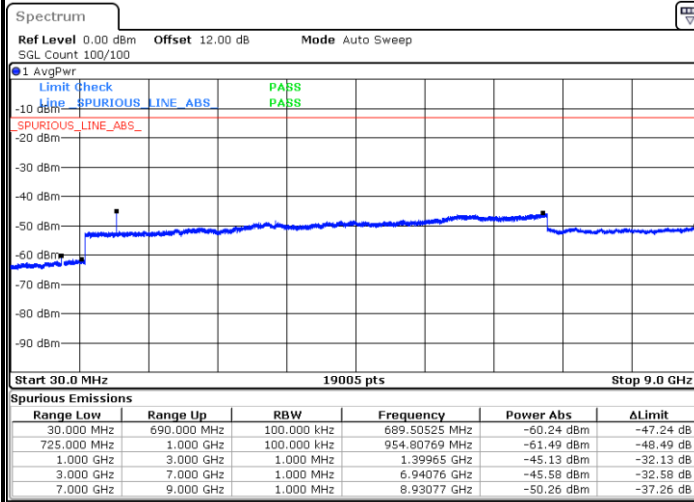


Date: 25.SEP.2020 11:33:09



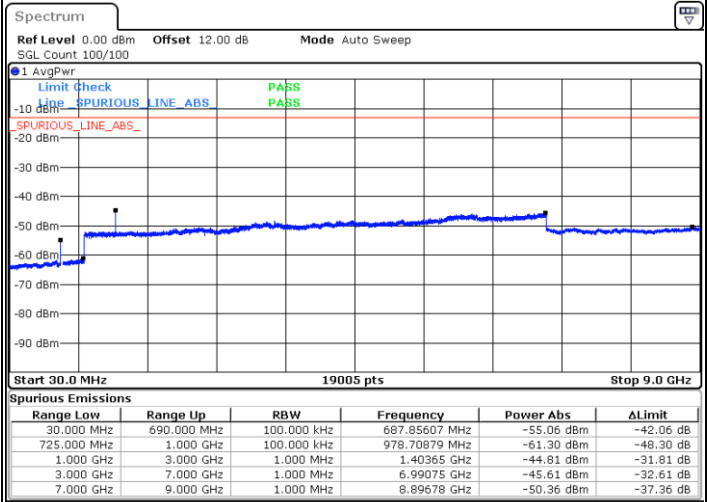
FR1 n12 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



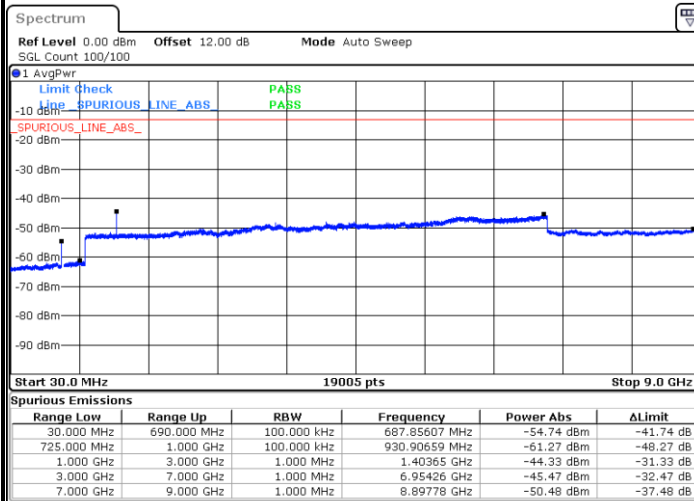
Date: 25.SEP.2020 09:55:28

Middle Channel / 1RB1



Date: 25.SEP.2020 10:39:48

Highest Channel / 1RB1



Date: 25.SEP.2020 10:18:01

Frequency Stability

Test Conditions		FR1 n12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0380	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0211	
0	Normal Voltage	0.0345	
-10	Normal Voltage	0.0322	
-20	Normal Voltage	0.0346	
-30	Normal Voltage	0.0095	
20	Maximum Voltage	0.0379	
20	Normal Voltage	0.0616	
20	Battery End Point	0.0317	

Note:

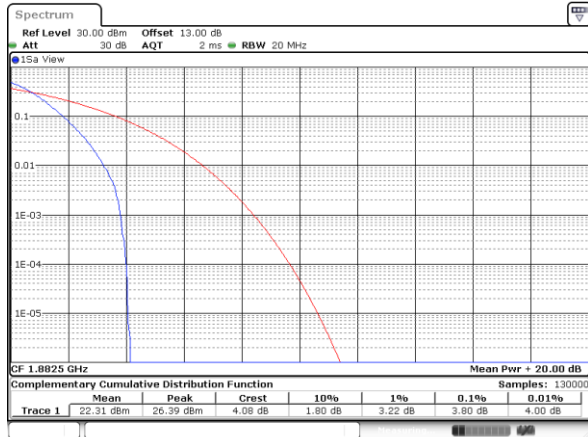
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n25****Peak-to-Average Ratio**

Mode	FR1 n25 / 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	3.80	4.38	5.51	5.83	PASS
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.72				PASS

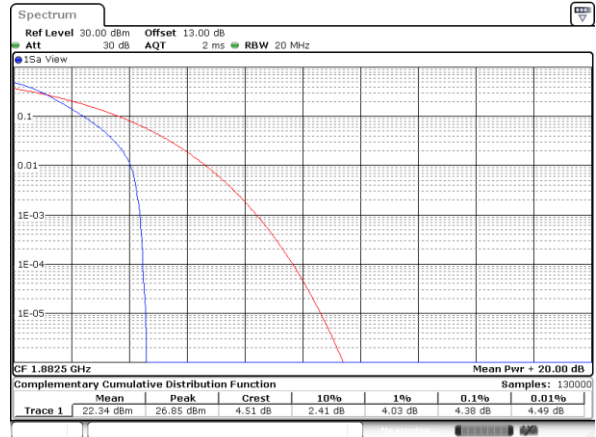
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



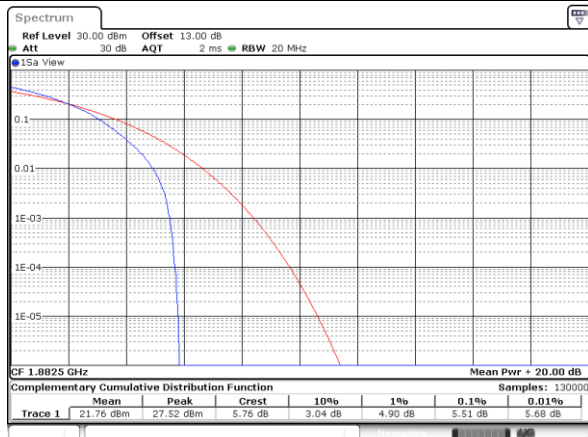
Date: 25.SEP.2020 14:00:12

QPSK



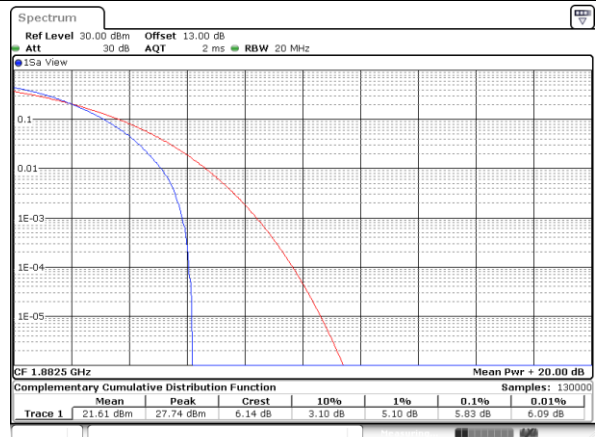
Date: 25.SEP.2020 13:49:43

16QAM



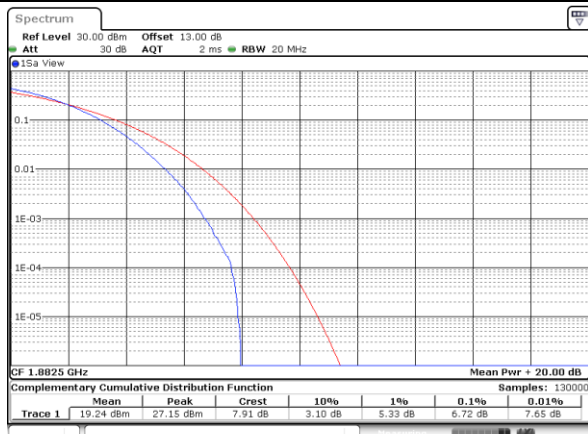
Date: 25.SEP.2020 13:52:56

64QAM



Date: 25.SEP.2020 13:53:17

256QAM



Date: 25.SEP.2020 13:59:21

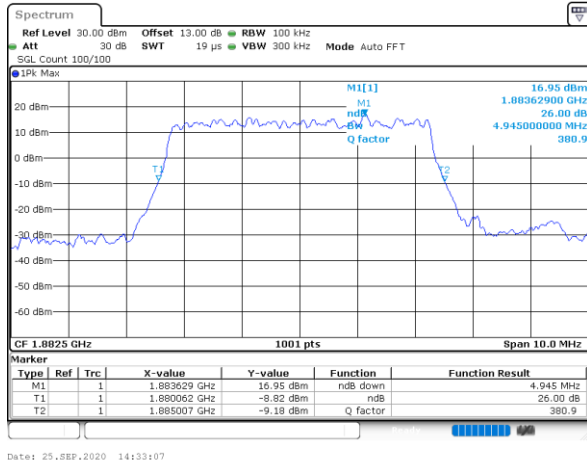
**26dB Bandwidth**

Mode	FR1 n25 : 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		9.37		14.18		18.78	

Mode	FR1 n25 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.91	5.06	9.95	9.73	14.93	15.20	19.98	19.82
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.89	5.03	9.81	9.83	14.99	15.11	19.78	19.86

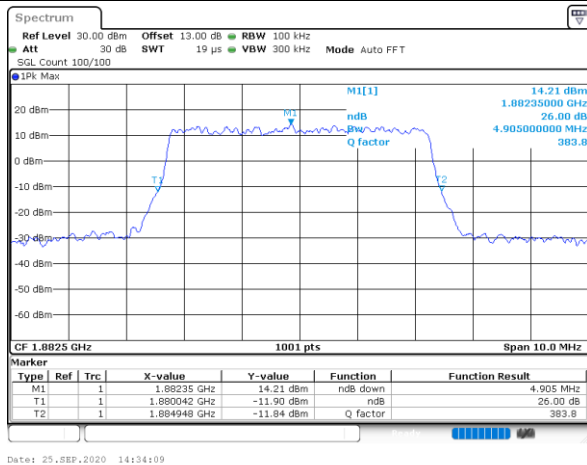
FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

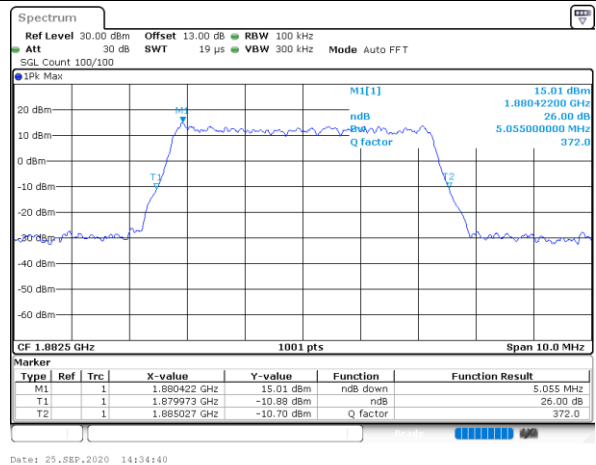


FR1 n25 / 5MHz / CP OFDM / Middle Channel

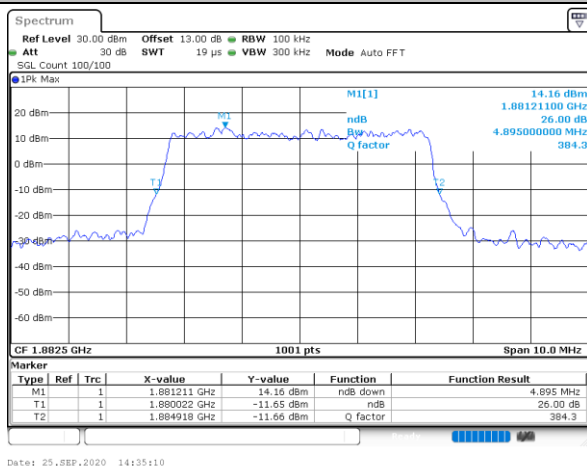
QPSK



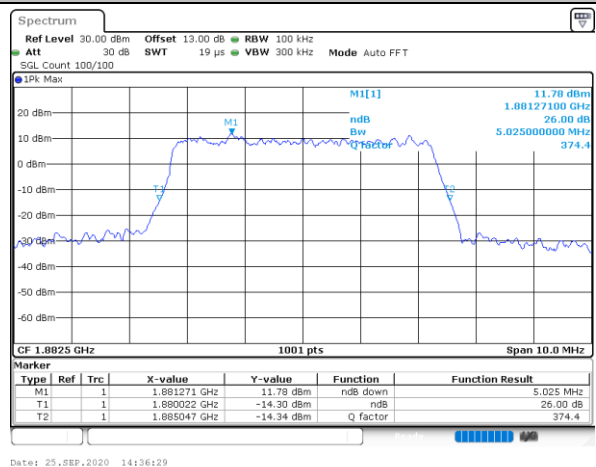
16QAM



64QAM

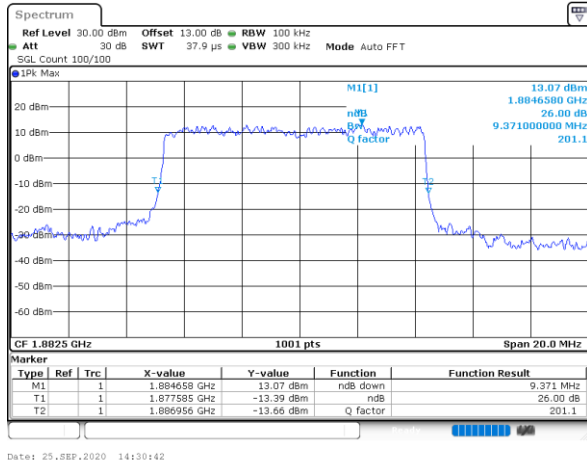


256QAM



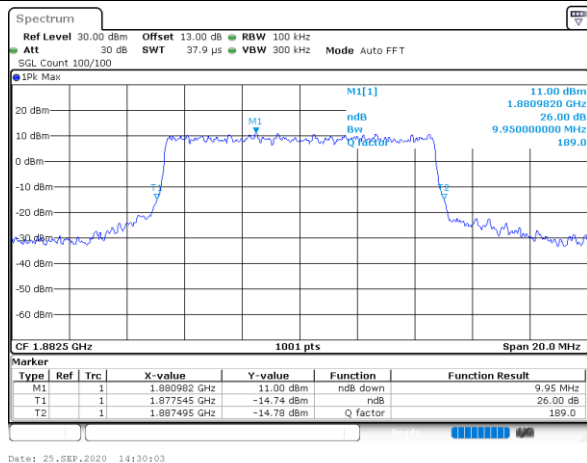
FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

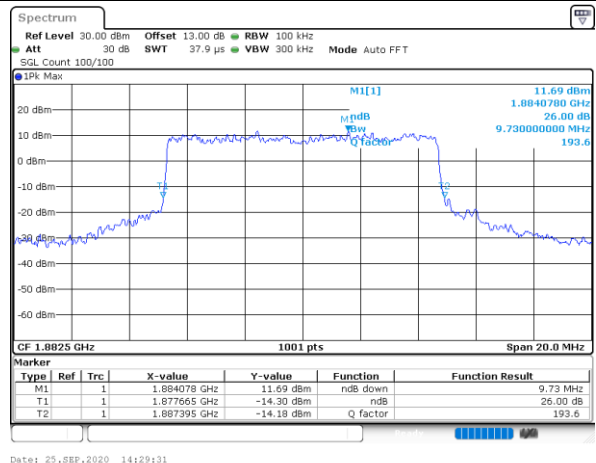


FR1 n25 / 10MHz / CP OFDM / Middle Channel

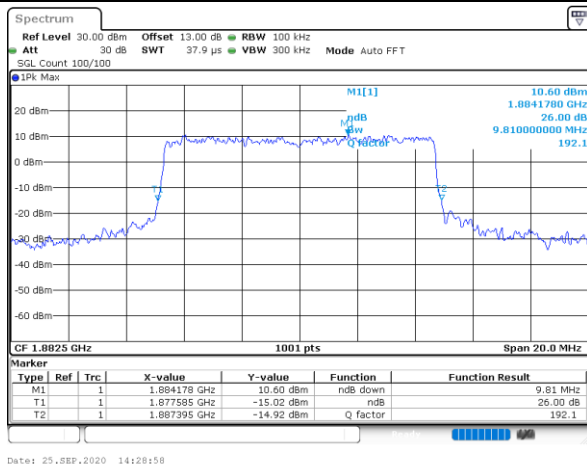
QPSK



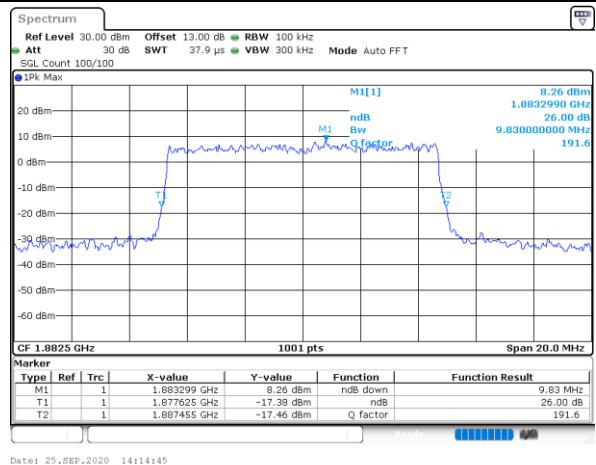
16QAM



64QAM



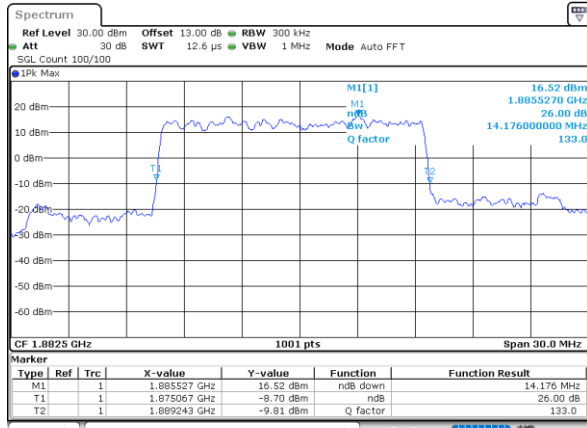
256QAM





FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel

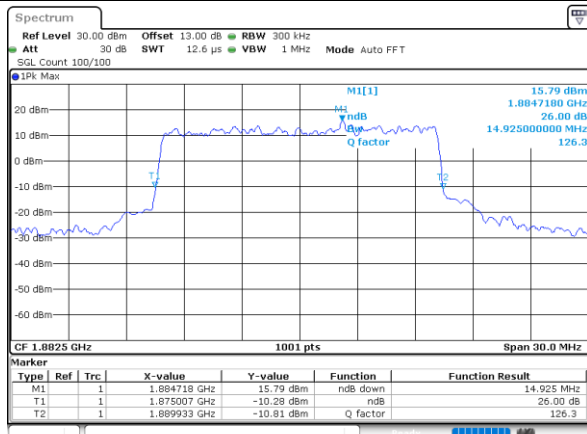
PI/2 BPSK



Date: 25.SEP.2020 14:06:39

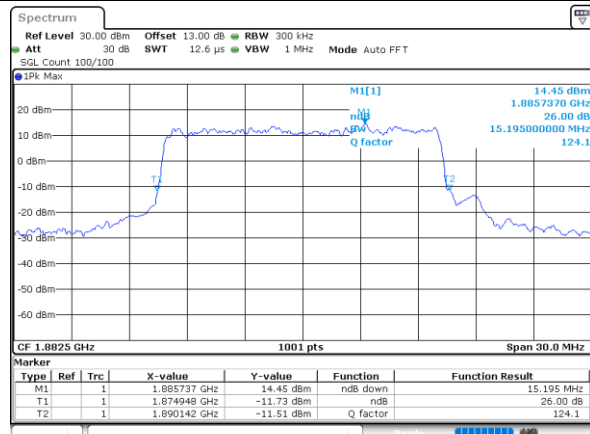
FR1 n25 / 15MHz / CP OFDM / Middle Channel

QPSK



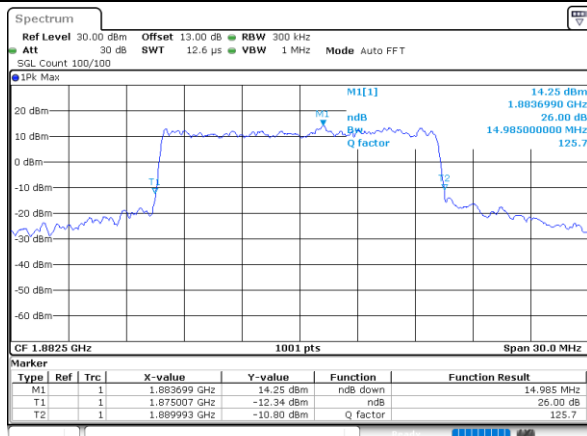
Date: 25.SEP.2020 14:07:24

16QAM



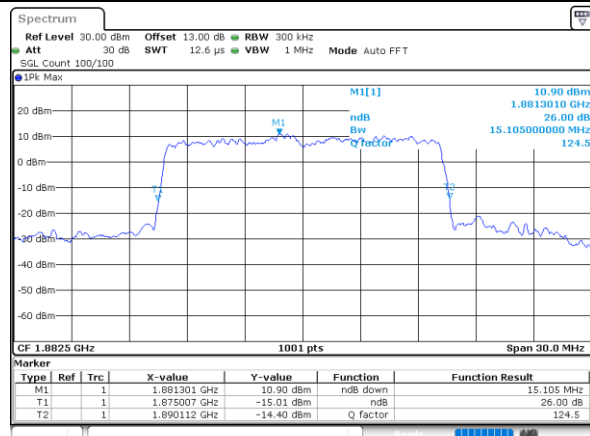
Date: 25.SEP.2020 14:08:12

64QAM



Date: 25.SEP.2020 14:08:42

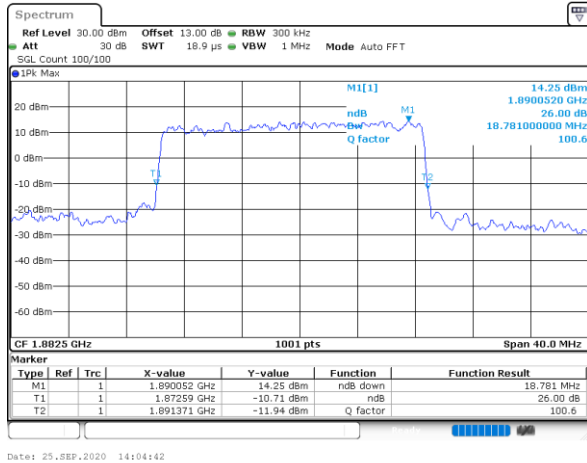
256QAM



Date: 25.SEP.2020 14:11:03

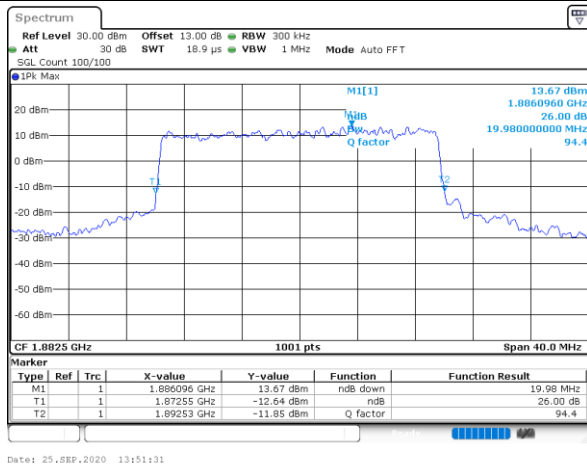
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

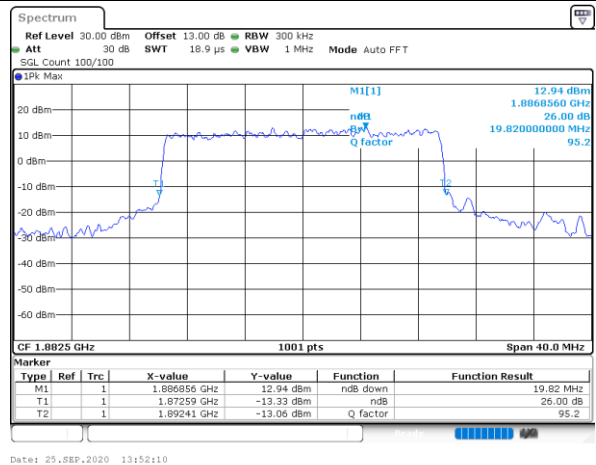


FR1 n25 / 20MHz / CP OFDM

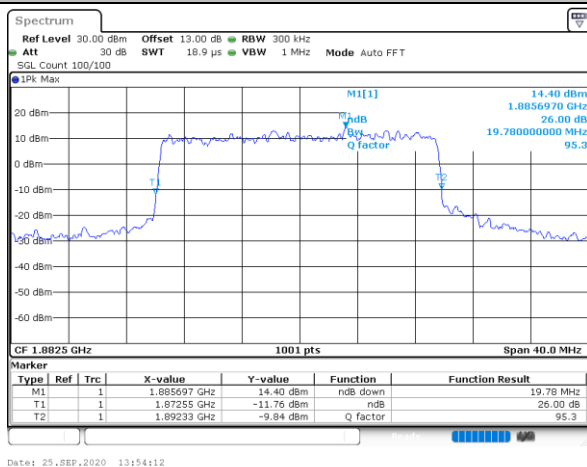
QPSK



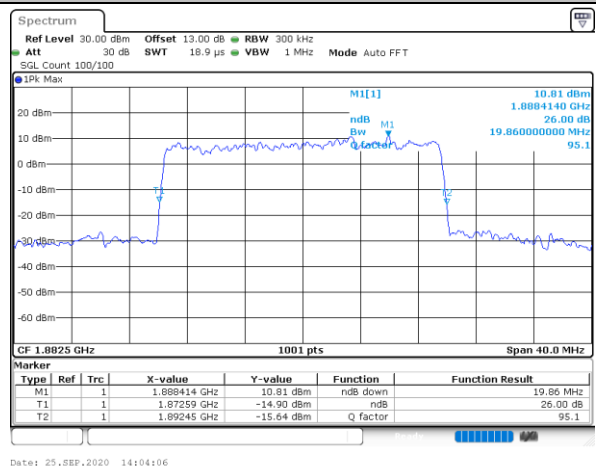
16QAM



64QAM



256QAM



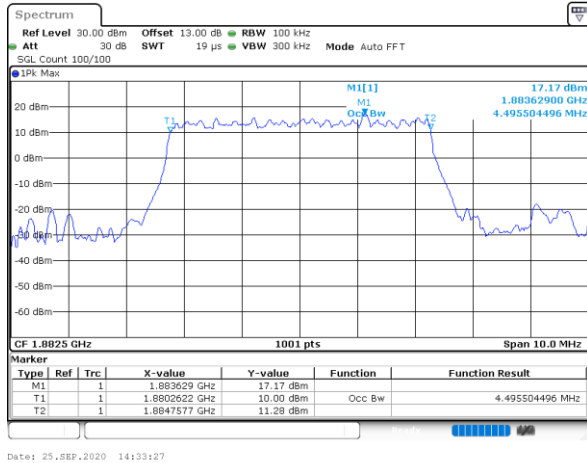
**Occupied Bandwidth**

Mode	FR1 n25 : 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	4.50		8.89		13.49		17.90	

Mode	FR1 n25 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.53	9.27	9.31	14.12	14.15	18.98	18.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.49	4.49	9.27	9.29	14.15	14.12	18.98	18.94

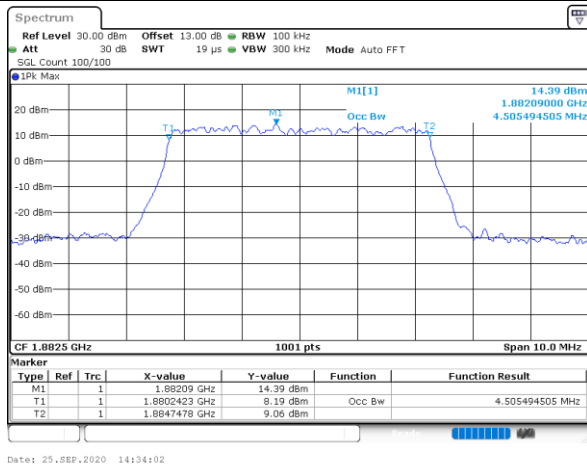
FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

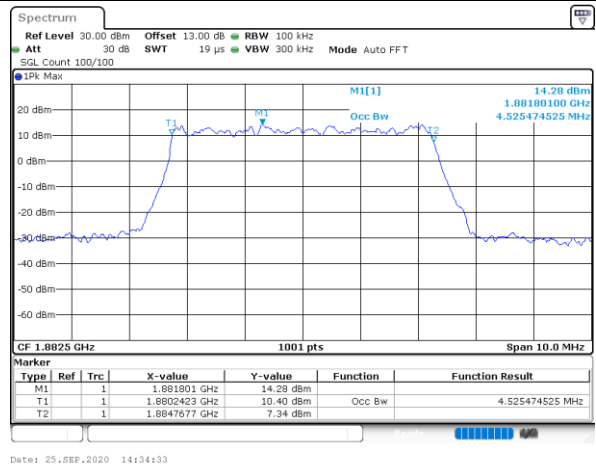


FR1 n25 / 5MHz / CP OFDM

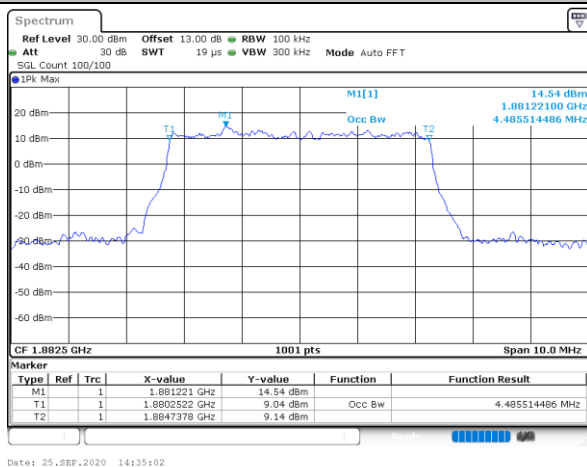
QPSK



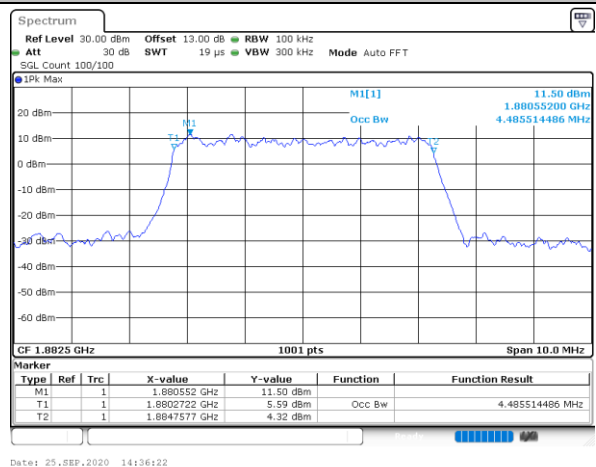
16QAM

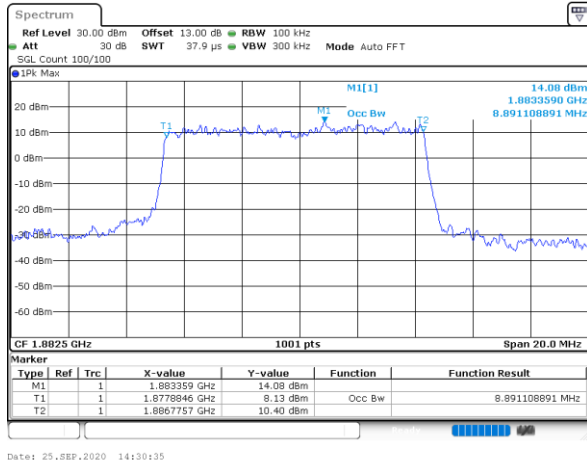
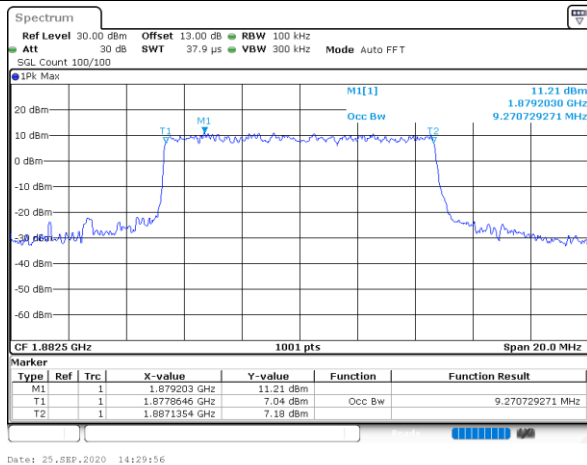
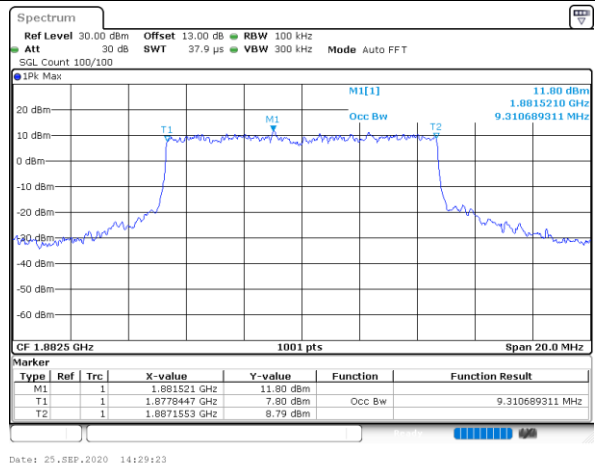
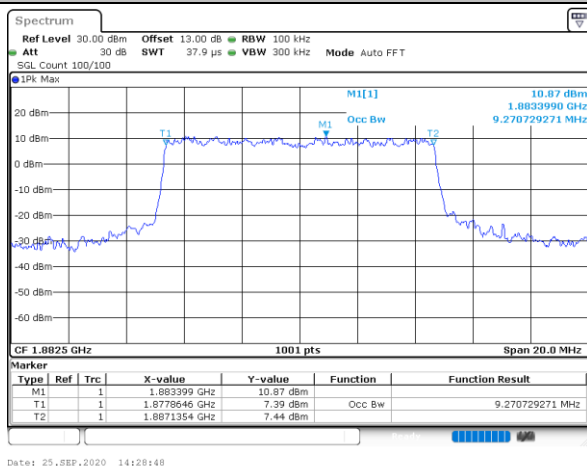
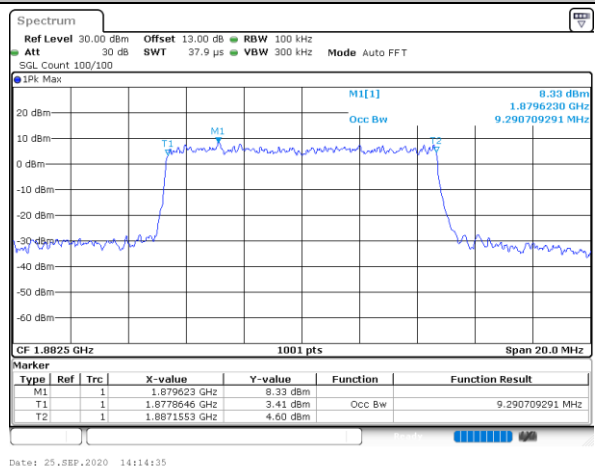


64QAM



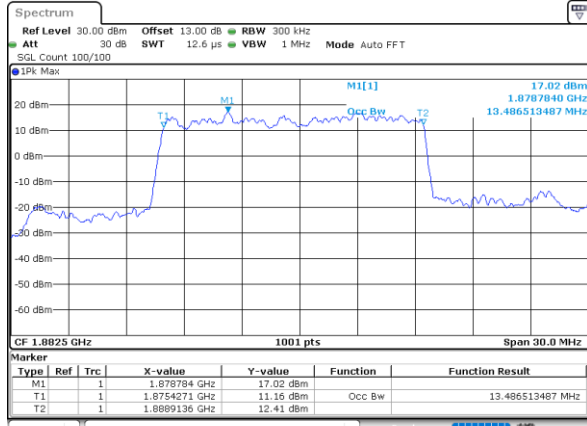
256QAM



FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel
PI/2 BPSK

FR1 n25 / 10MHz / CP OFDM
QPSK

16QAM

64QAM

256QAM


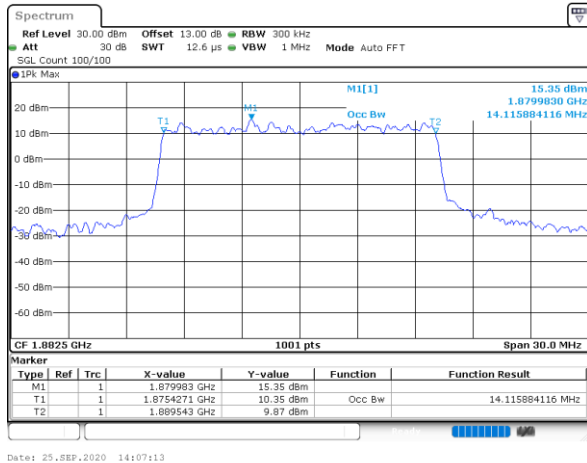
FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

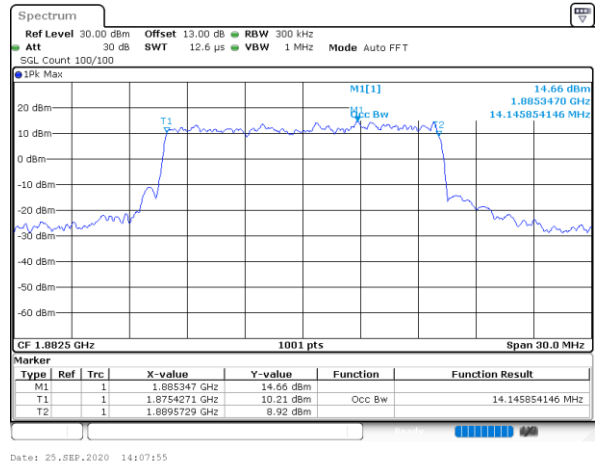


FR1 n25 / 15MHz / CP OFDM

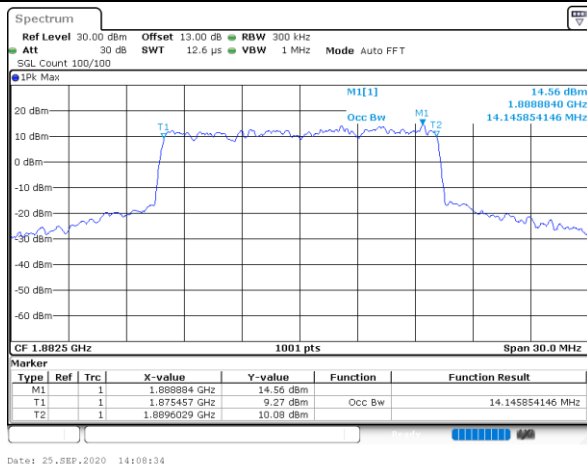
QPSK



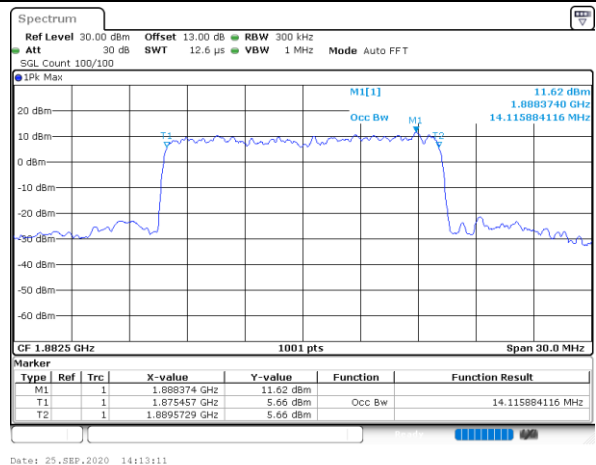
16QAM



64QAM

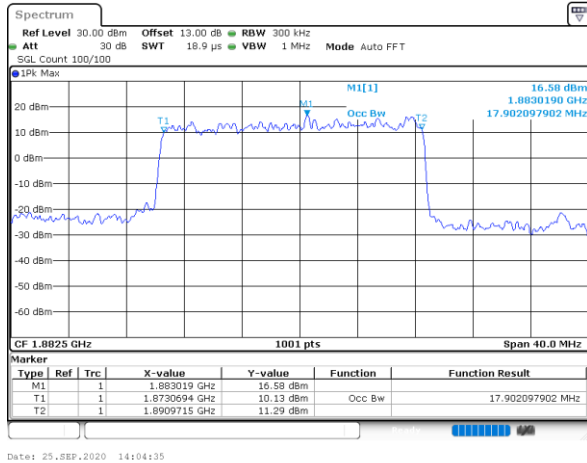


256QAM



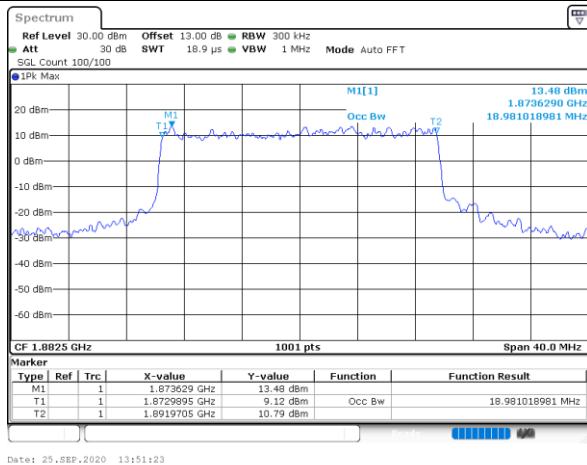
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

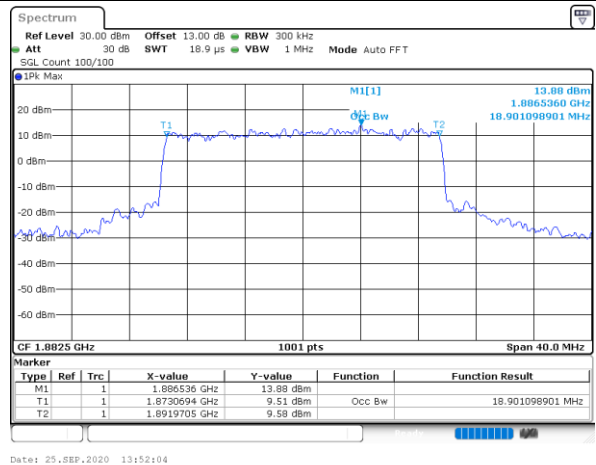


FR1 n25 / 20MHz / CP OFDM

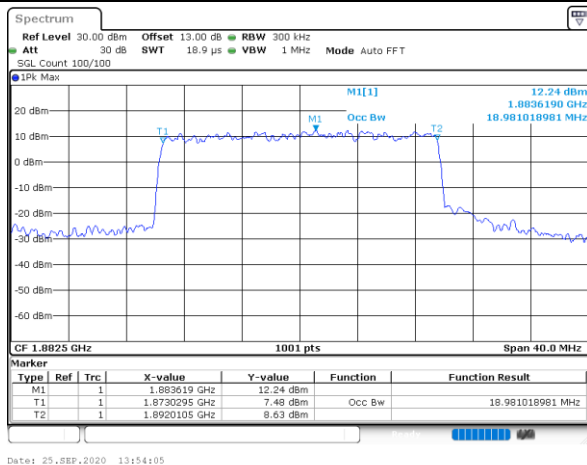
QPSK



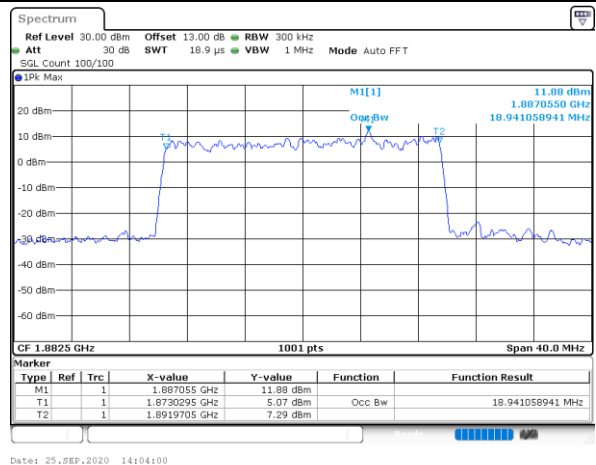
16QAM



64QAM



256QAM

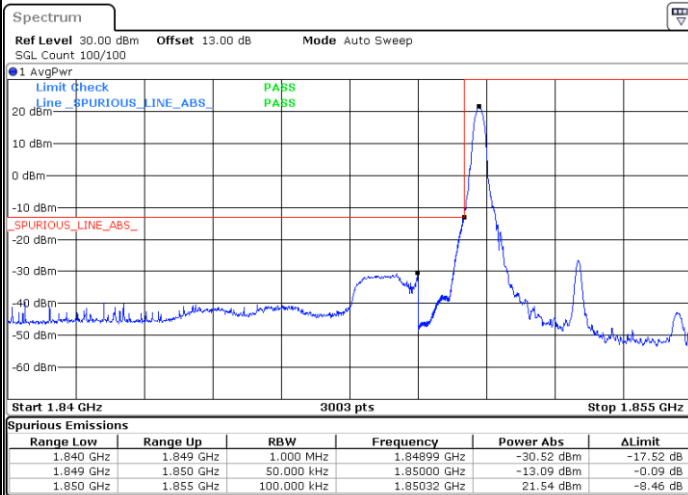


**Conducted Band Edge**

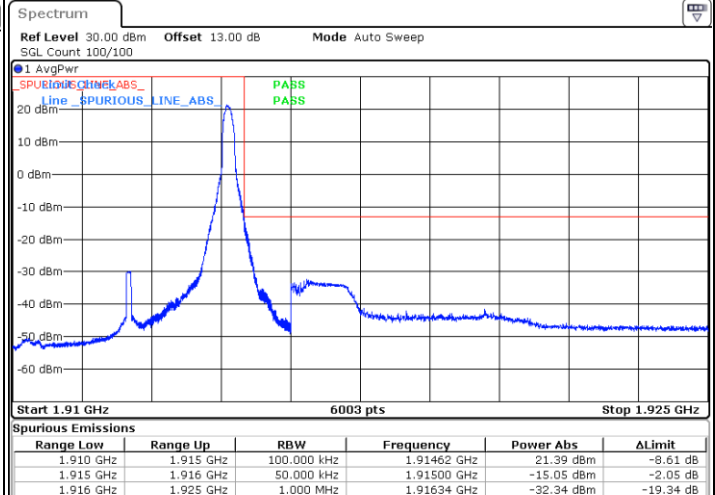
FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



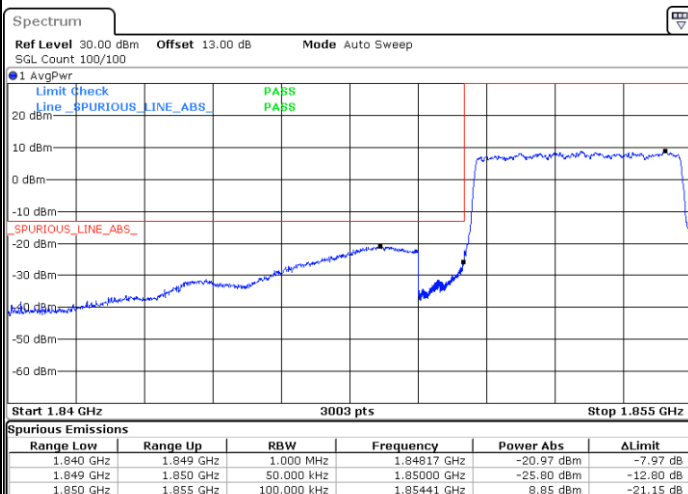
Date: 25.SEP.2020 17:09:20



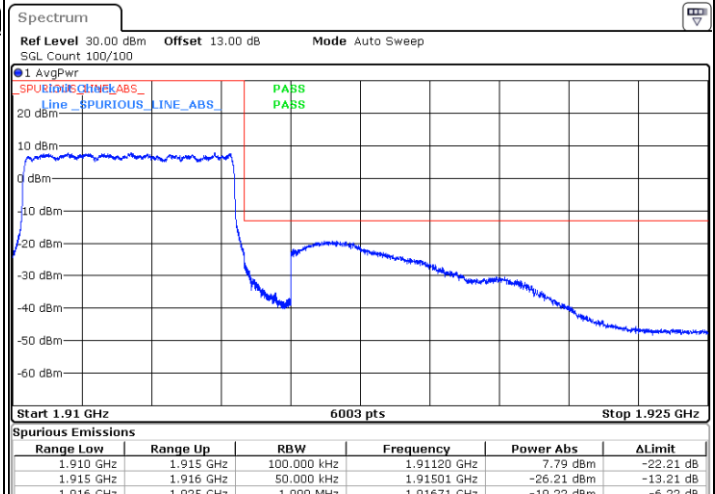
Date: 25.SEP.2020 16:52:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 17:15:52



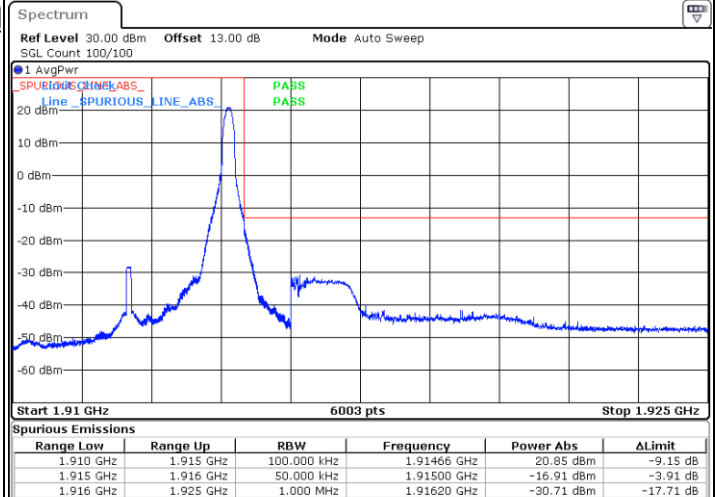
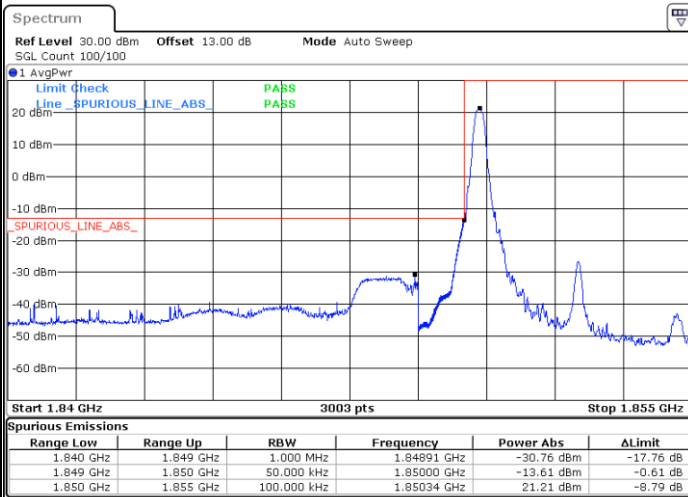
Date: 25.SEP.2020 16:50:27



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

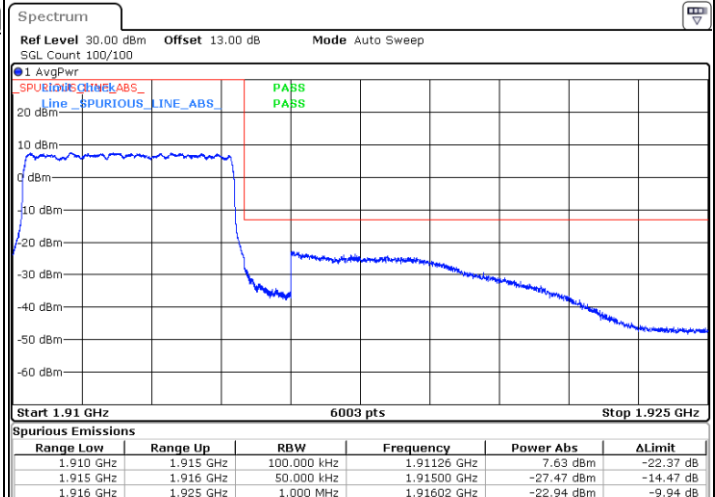
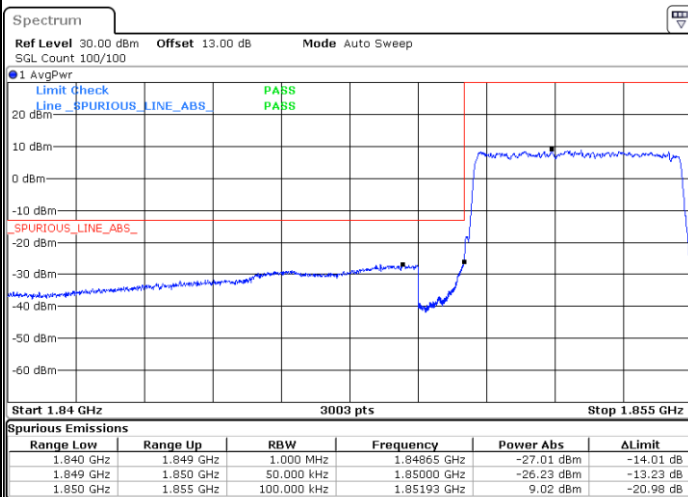
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

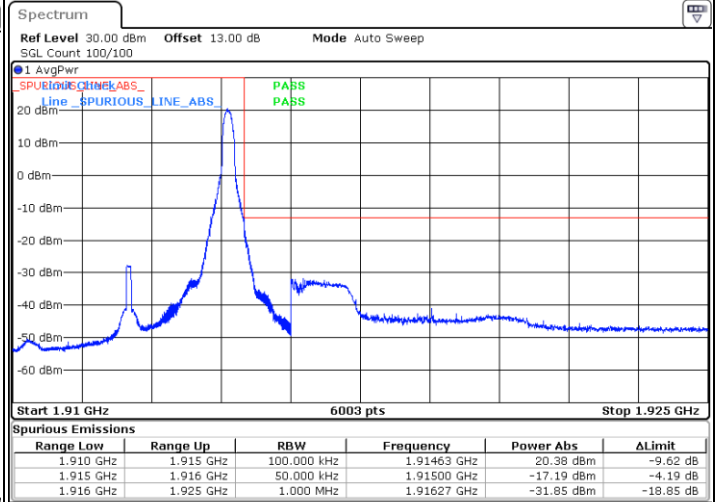
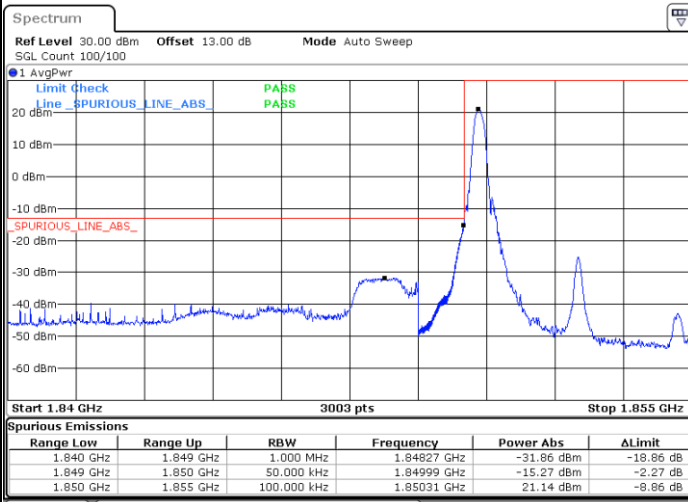




FR1 n25 / 5MHz / DFT-S OFDM / 16QAM

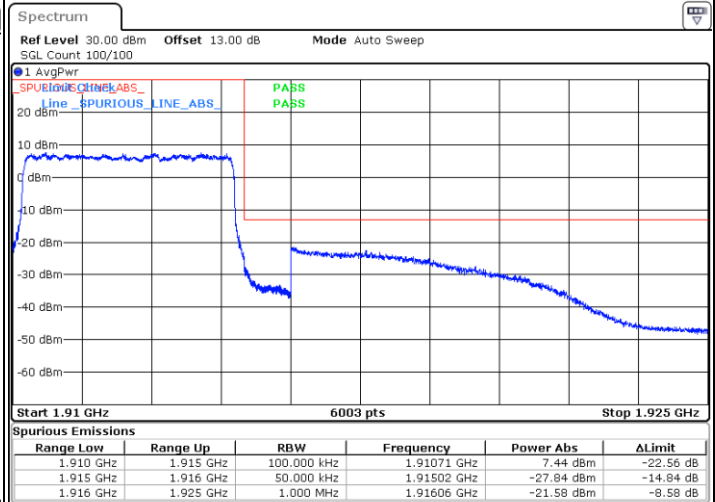
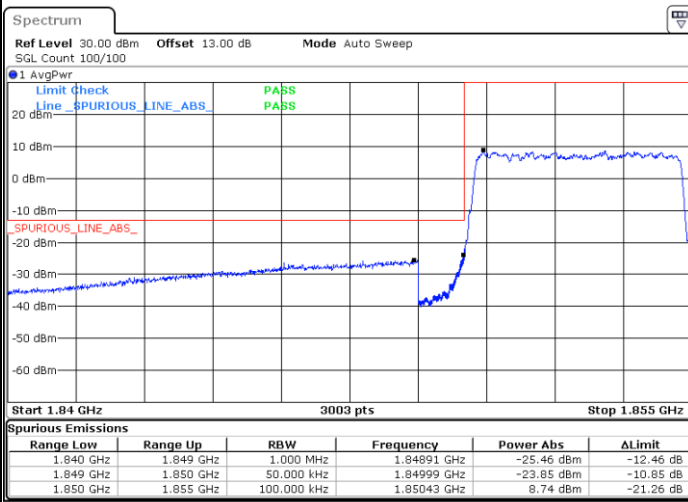
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

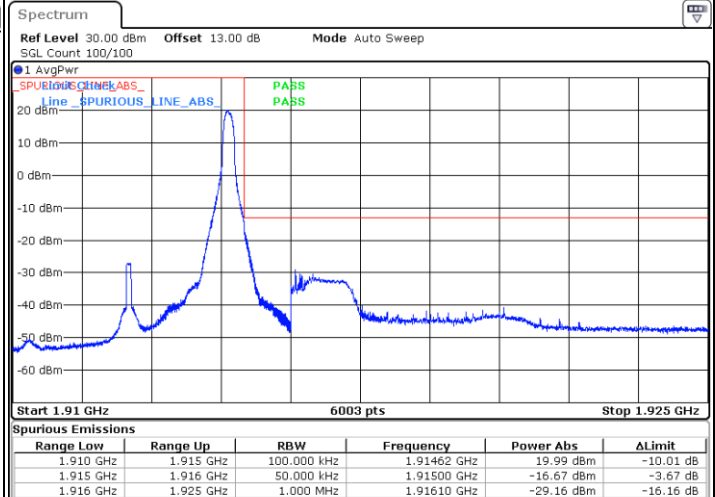
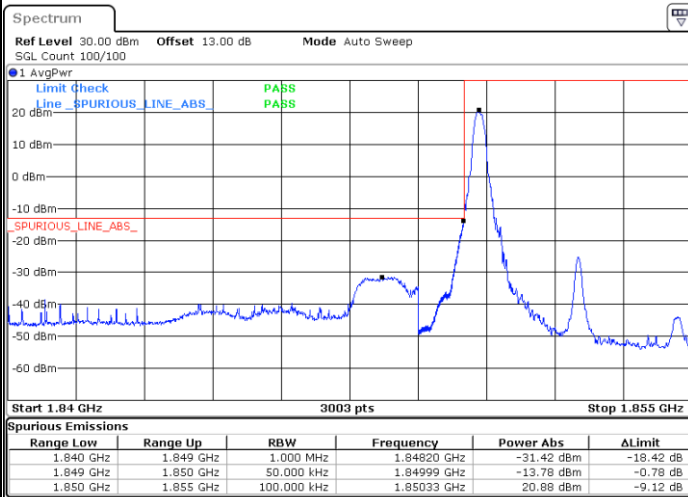




FR1 n25 / 5MHz / DFT-S OFDM / 64QAM

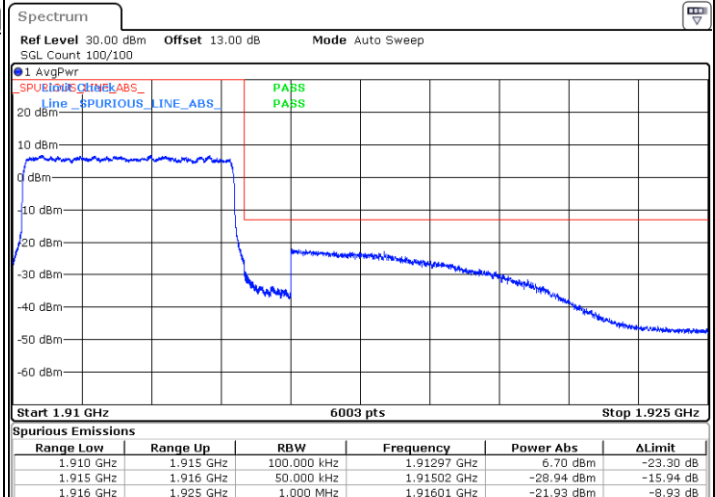
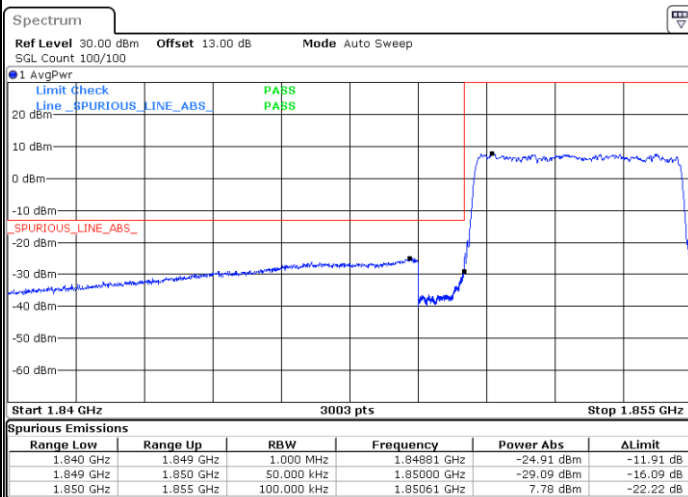
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

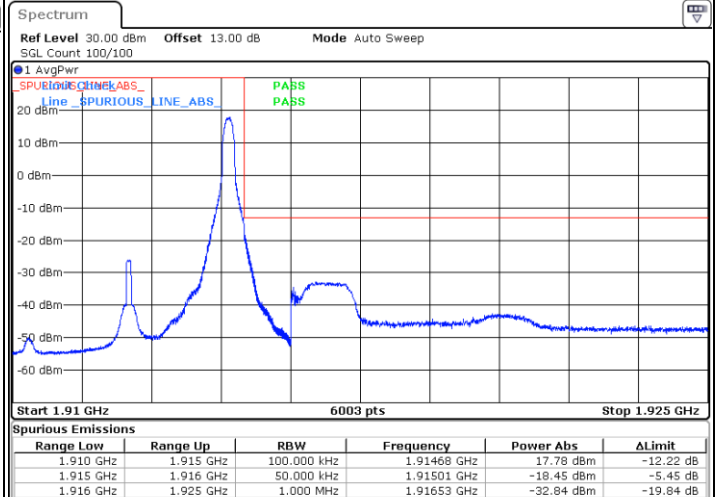
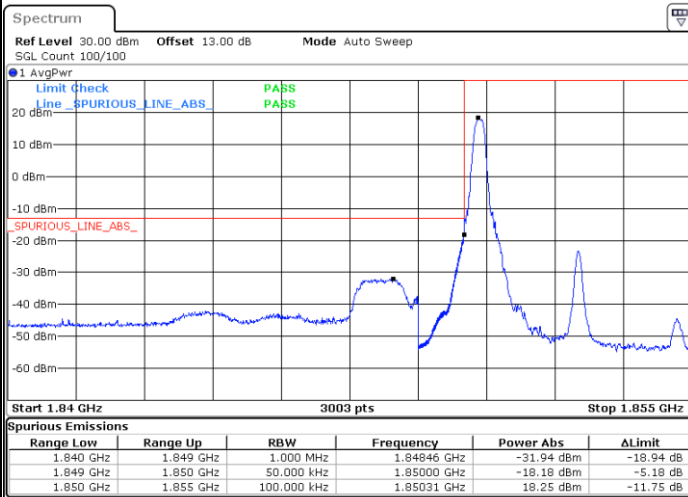




FR1 n25 / 5MHz / DFT-S OFDM / 256QAM

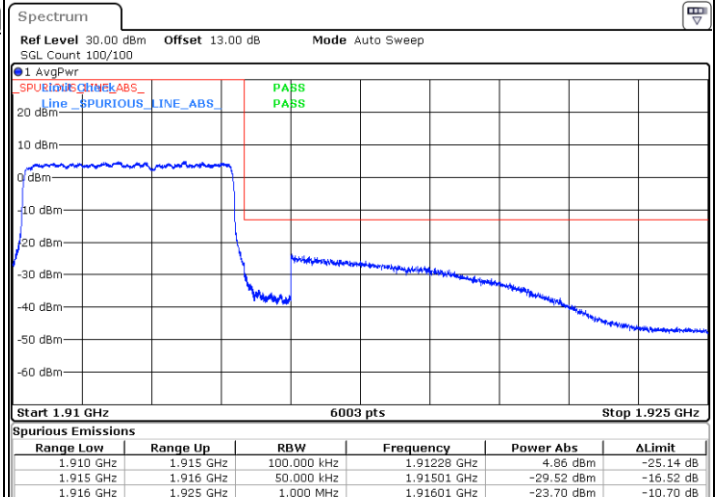
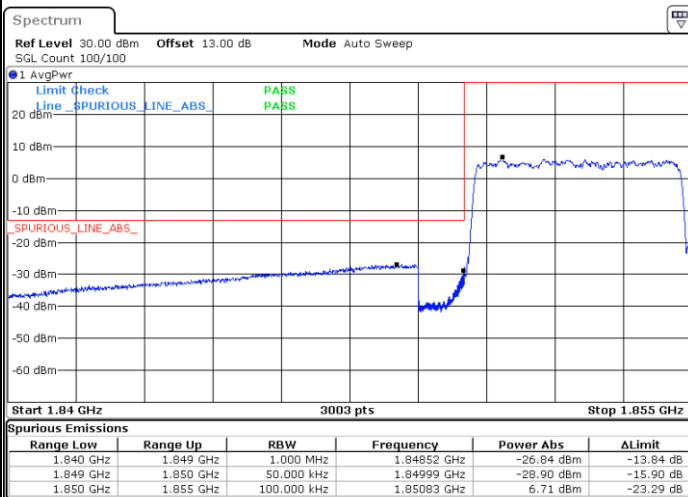
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

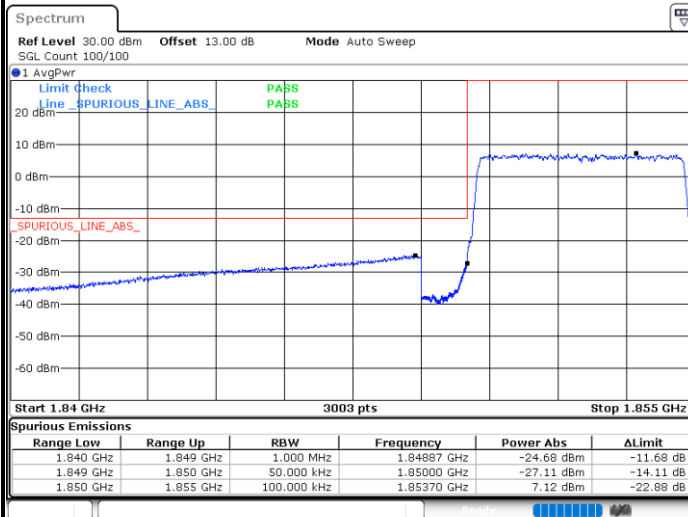
Highest Band Edge / Full RB



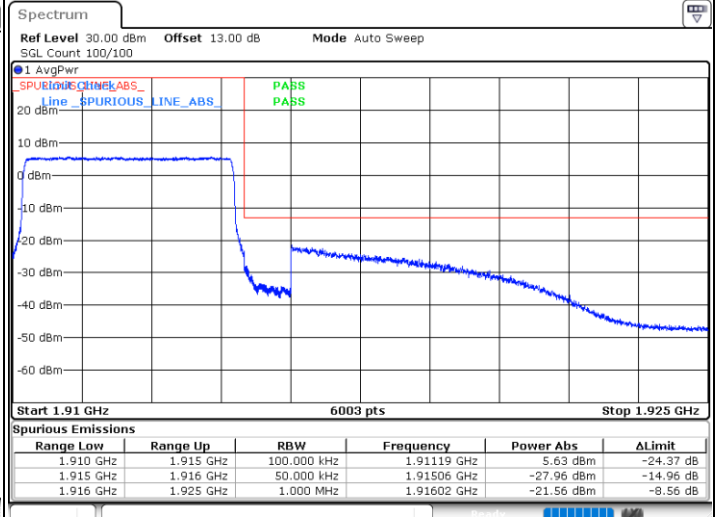


FR1 n25 / 5MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

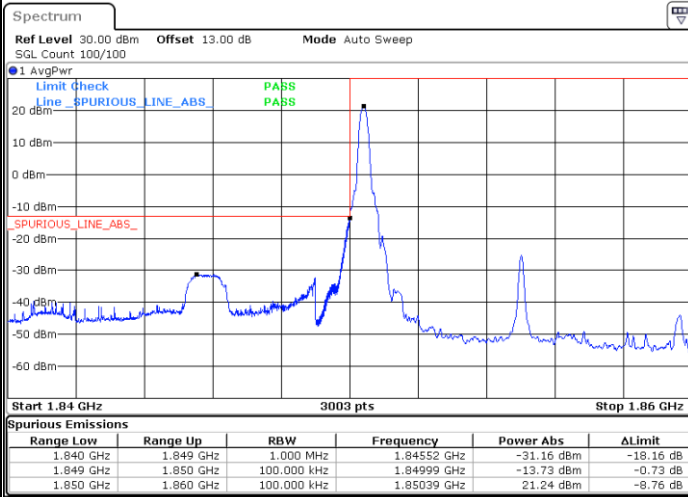




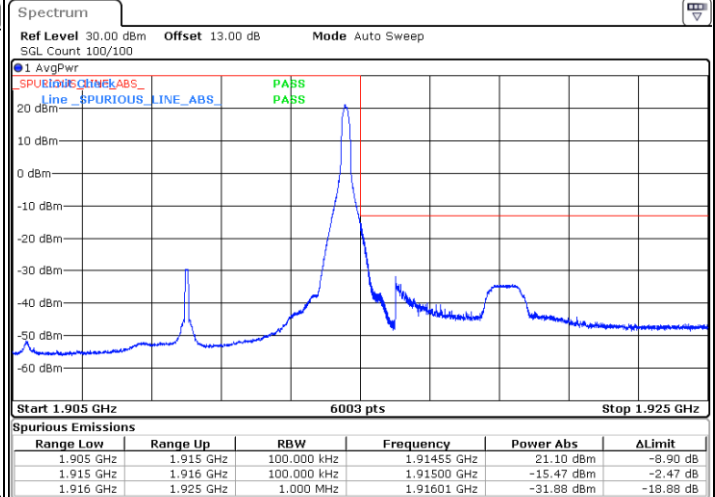
FR1 n25 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



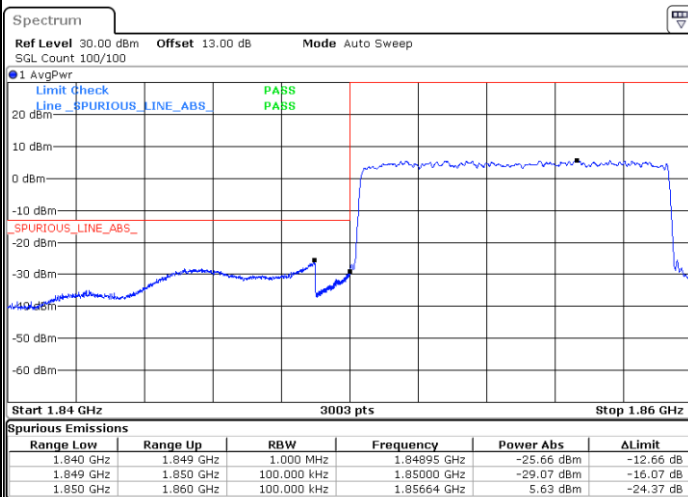
Date: 25.SEP.2020 16:07:07



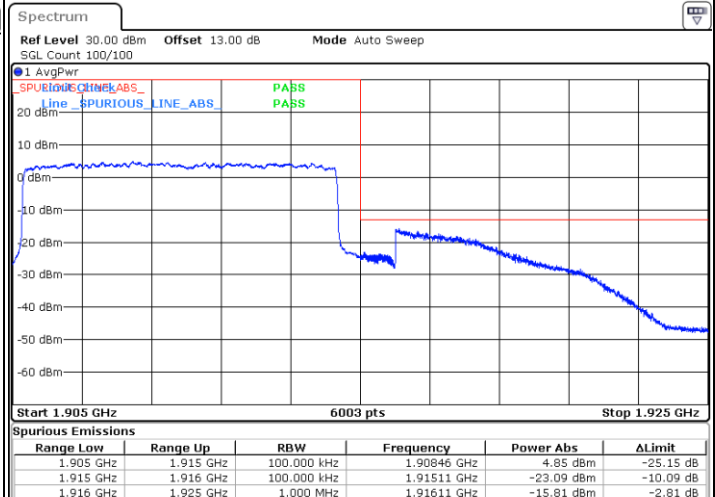
Date: 25.SEP.2020 16:10:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 16:07:51



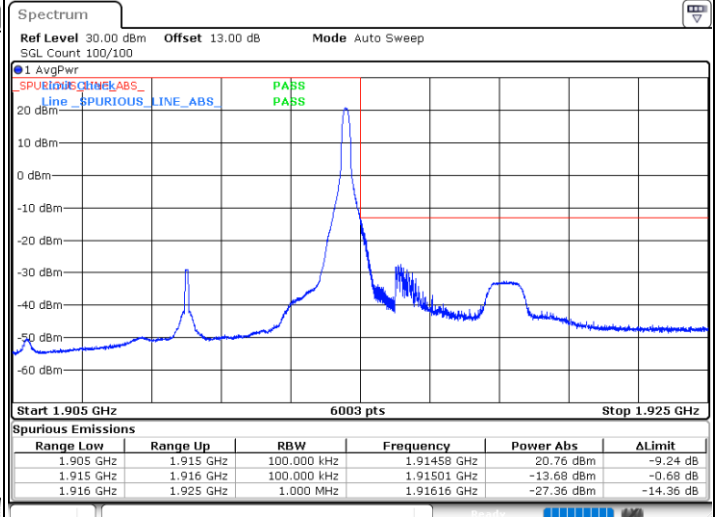
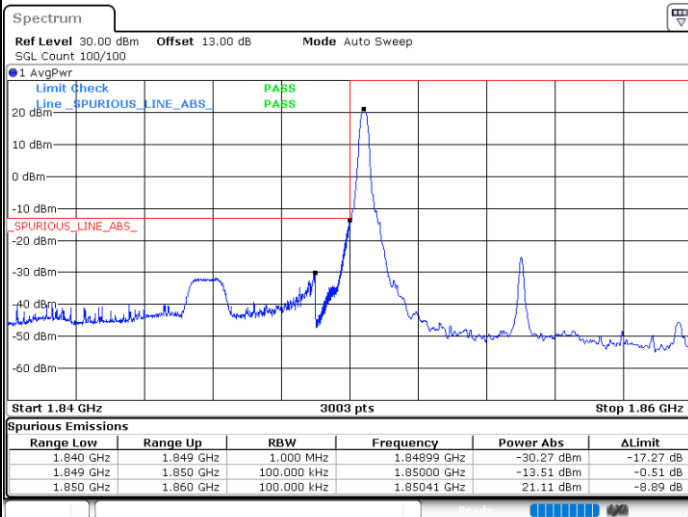
Date: 25.SEP.2020 16:09:26



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

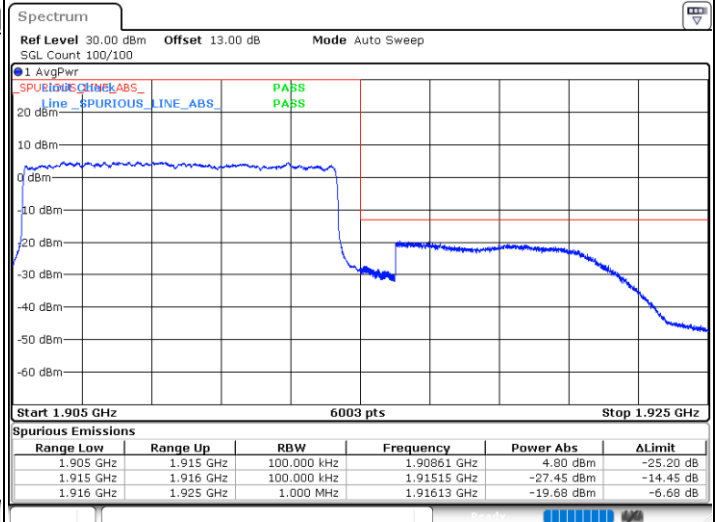
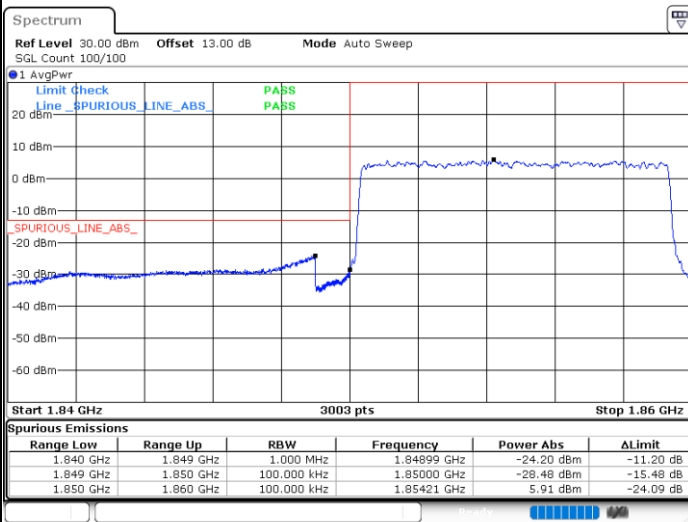
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

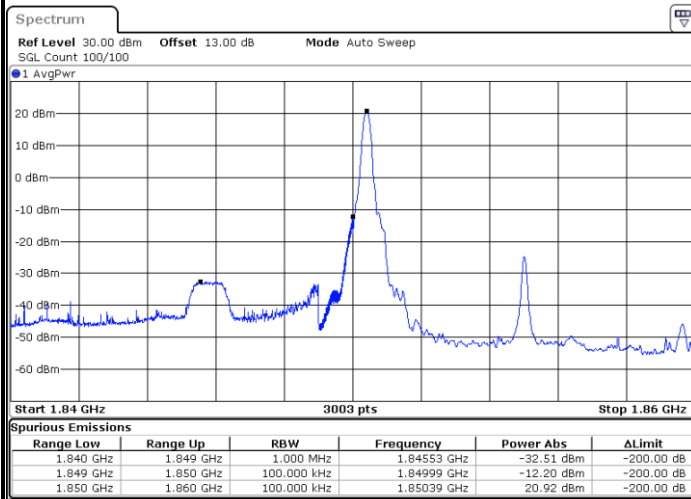
Highest Band Edge / Full RB





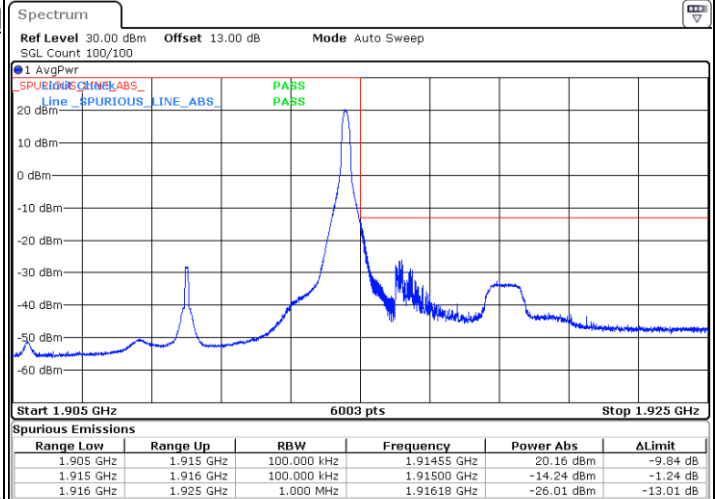
FR1 n25 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0



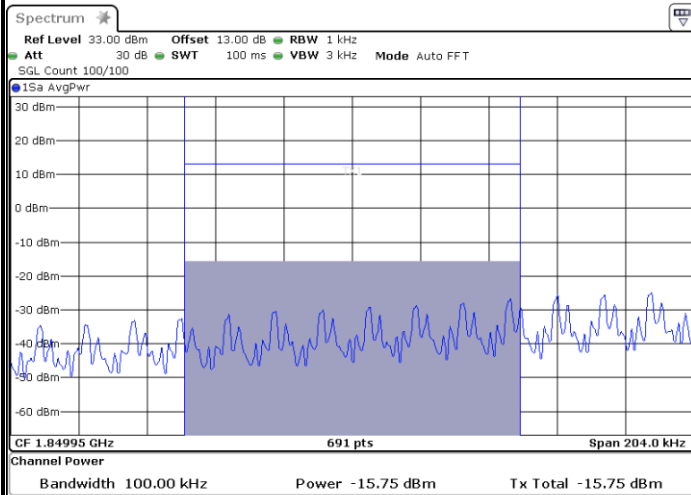
Date: 25.SEP.2020 16:00:31

Highest Band Edge / 1RBmax



Date: 25.SEP.2020 16:21:12

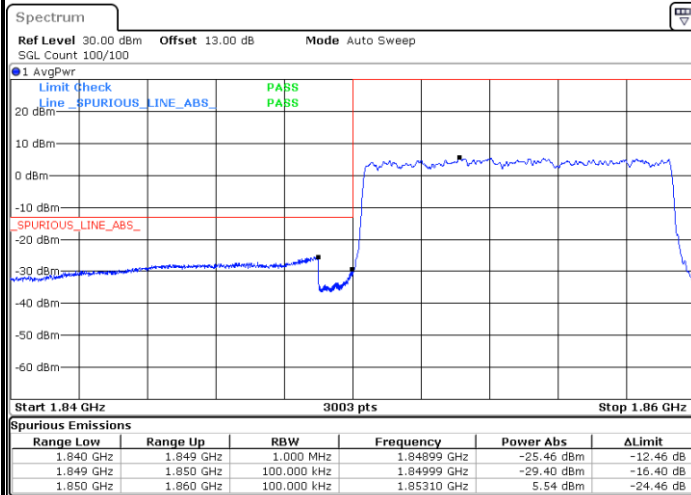
Channel Power -15.75dBm < -13dBm (Pass)



Date: 25.SEP.2020 17:29:09

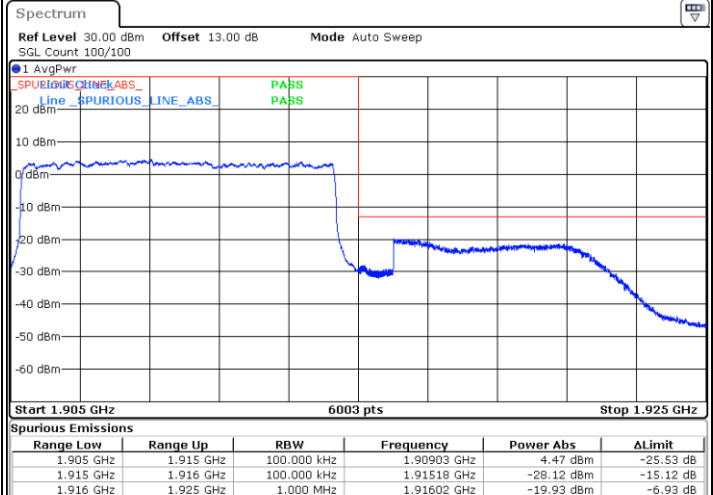


Lowest Band Edge / Full RB



Date: 25.SEP.2020 15:56:28

Highest Band Edge / Full RB



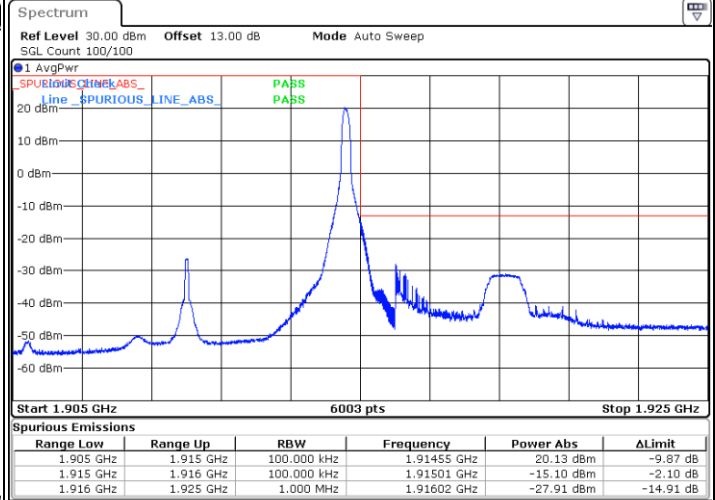
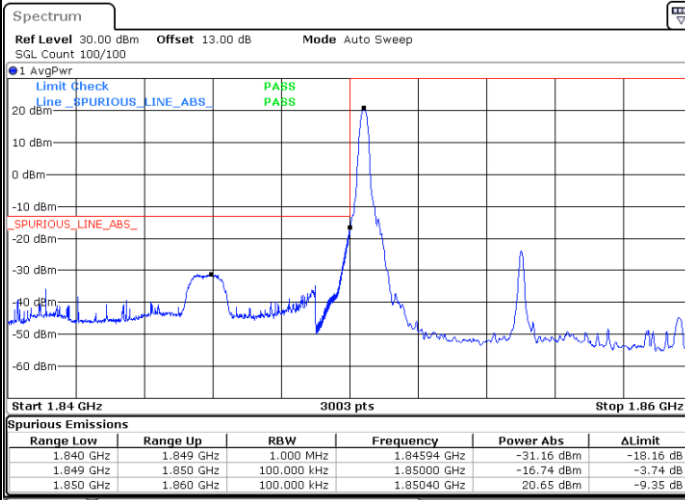
Date: 25.SEP.2020 16:20:20



FR1 n25 / 10MHz / DFT-s-OFDM / 64QAM

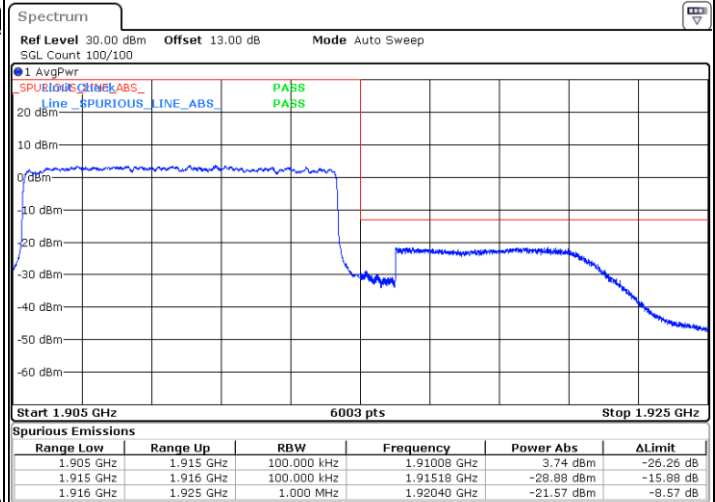
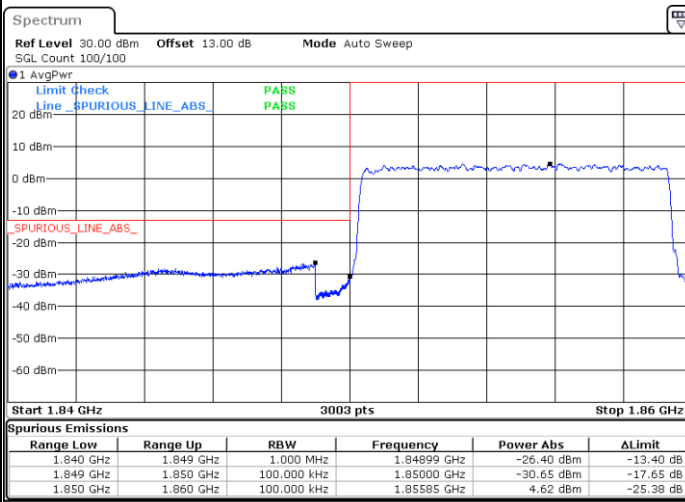
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

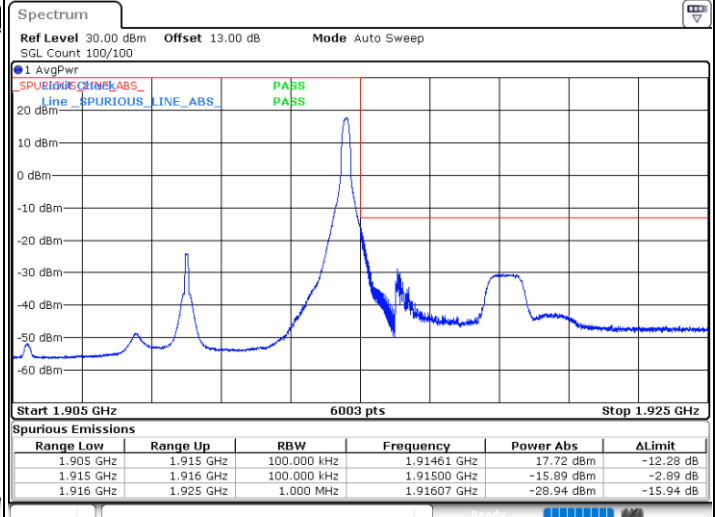
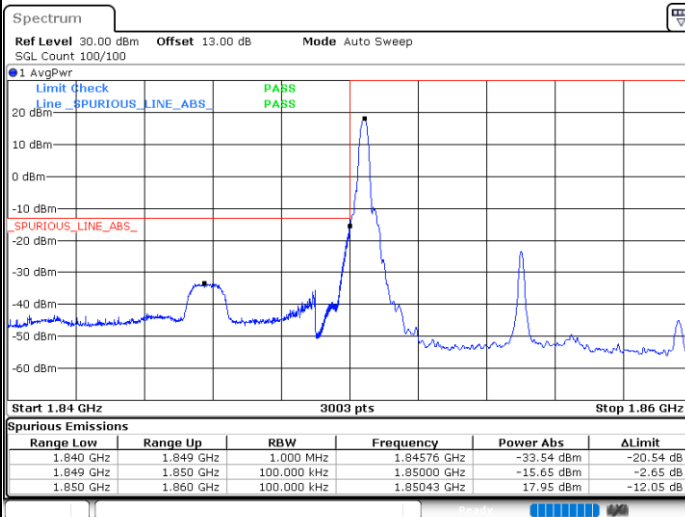




FR1 n25 / 10MHz / DFT-s-OFDM / 256QAM

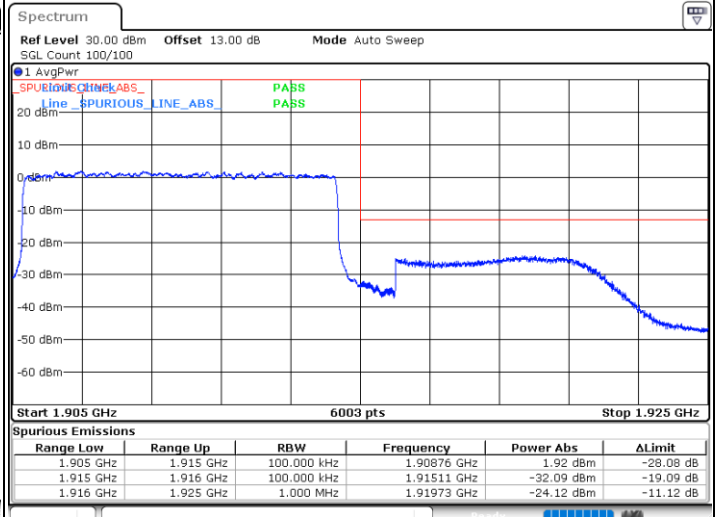
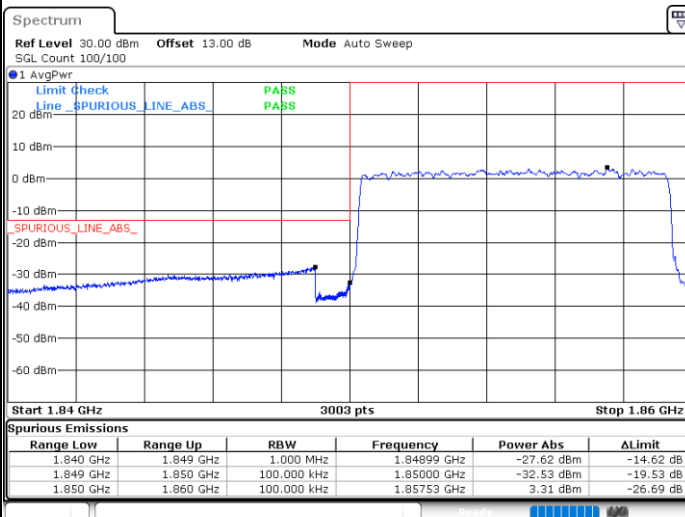
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

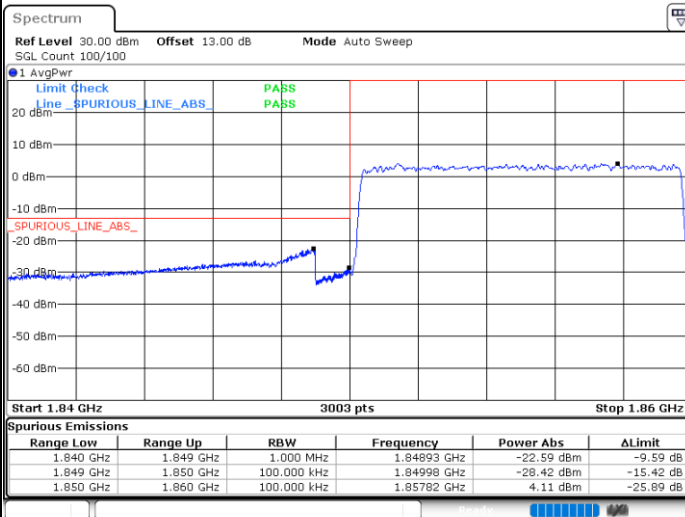




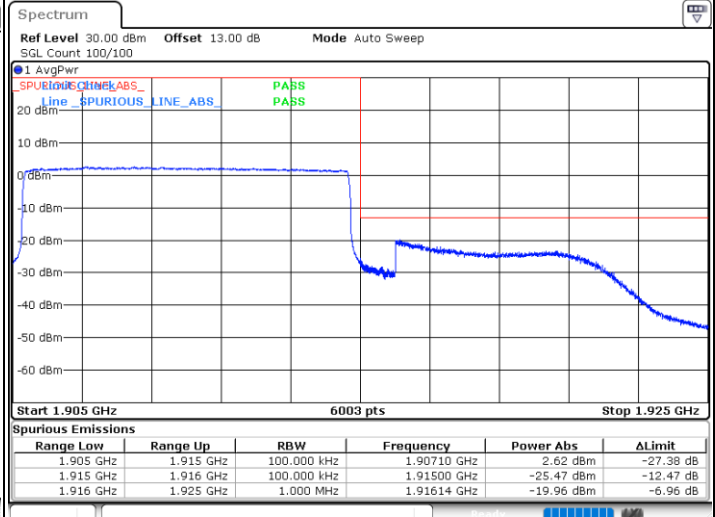
FR1 n25 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 16:05:43



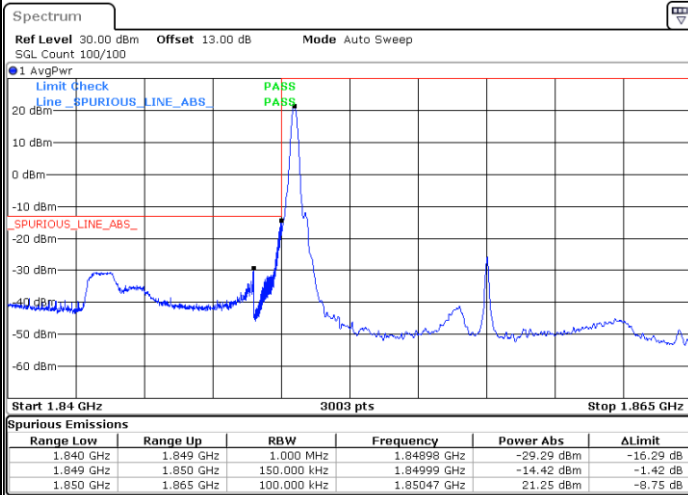
Date: 25.SEP.2020 16:15:14



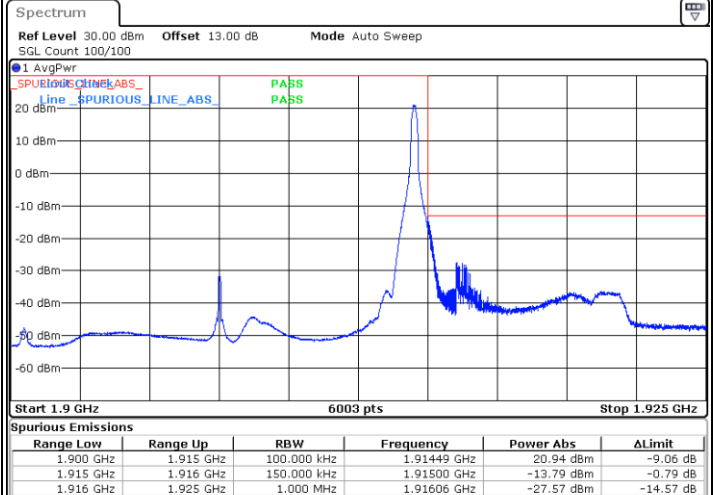
FR1 n25 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



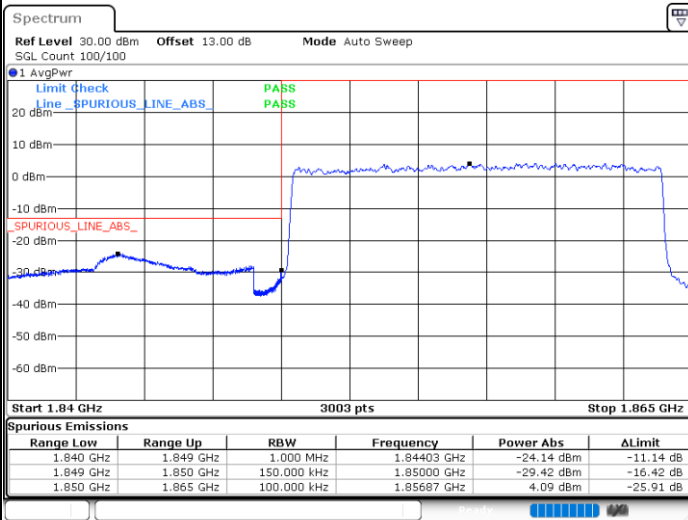
Date: 25.SEP.2020 15:29:35



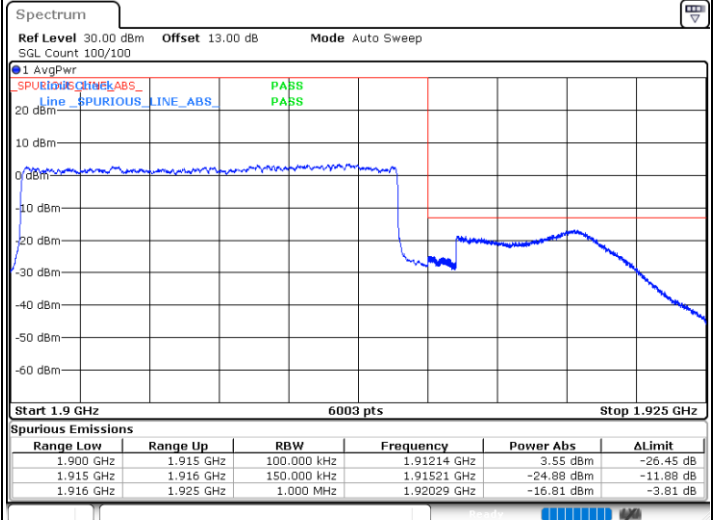
Date: 25.SEP.2020 15:32:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 15:28:33



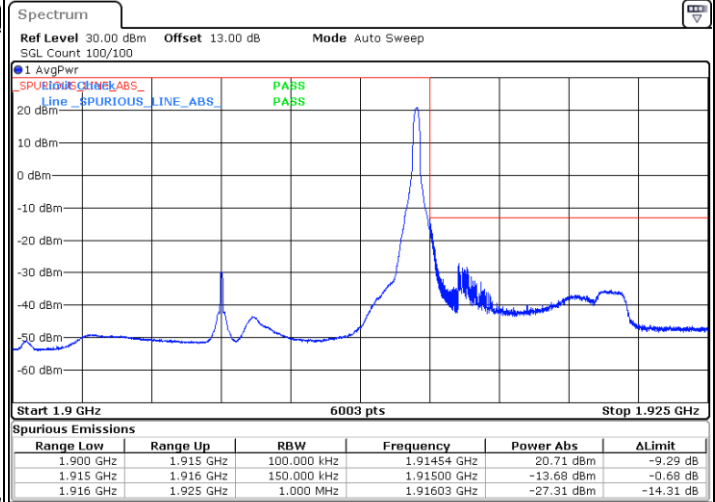
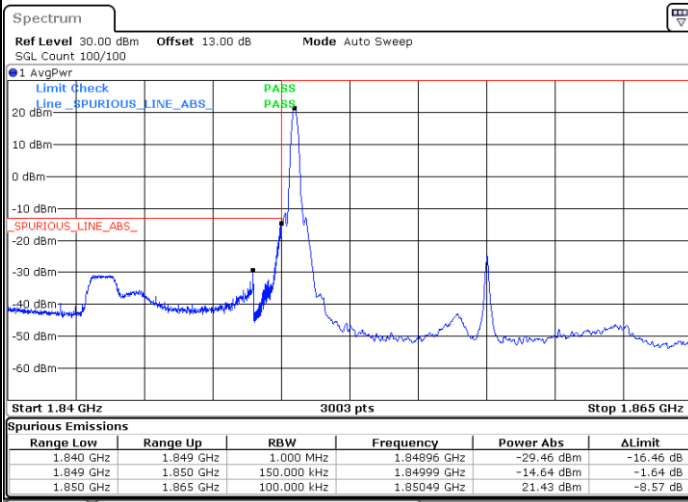
Date: 25.SEP.2020 15:33:22



FR1 n25 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

