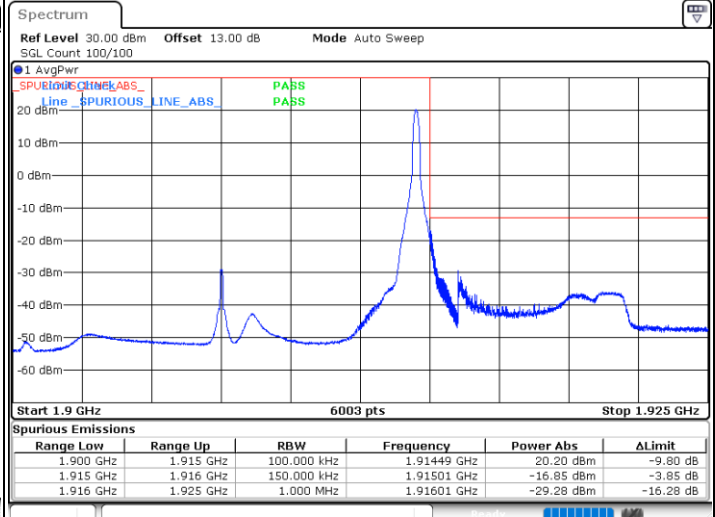
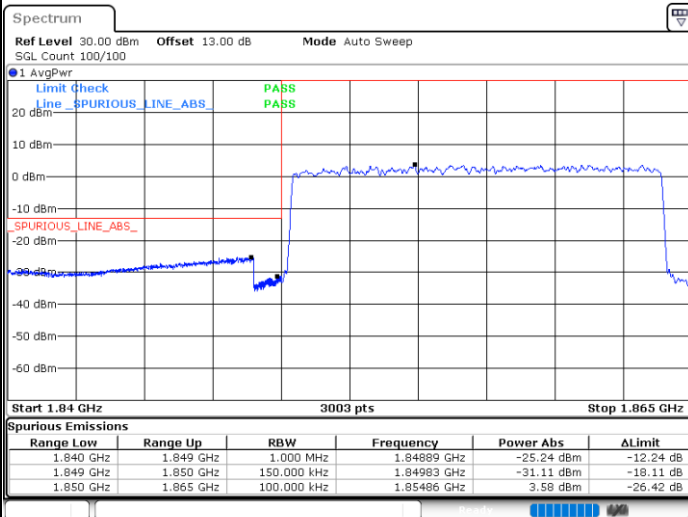




FR1 n25 / 15MHz / DFT-s-OFDM / 16QAM

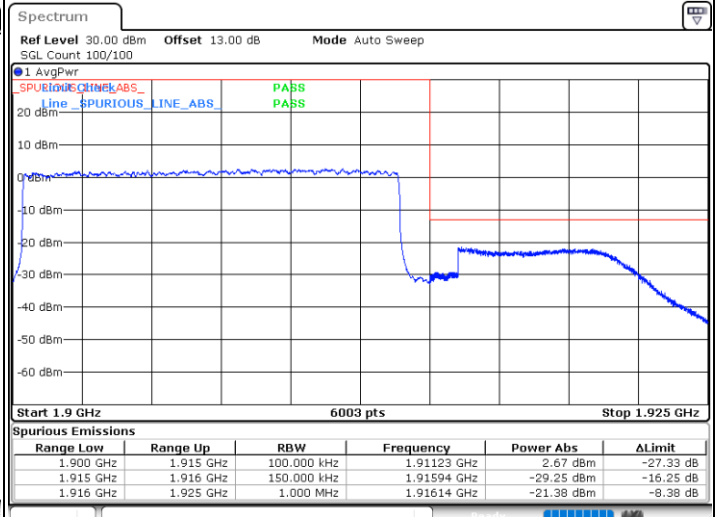
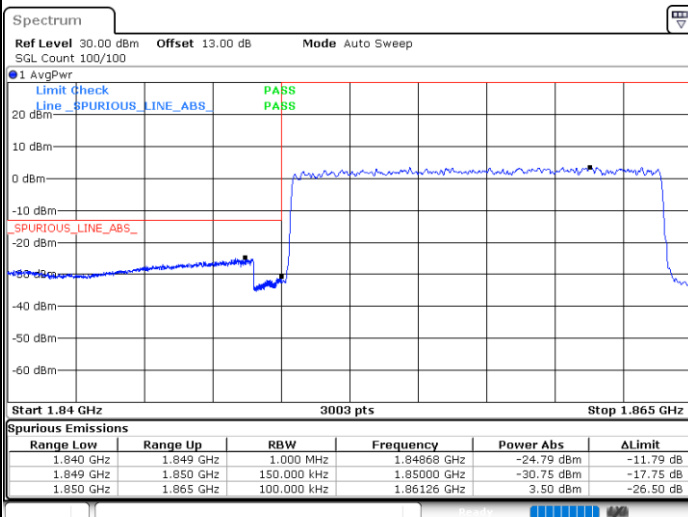
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

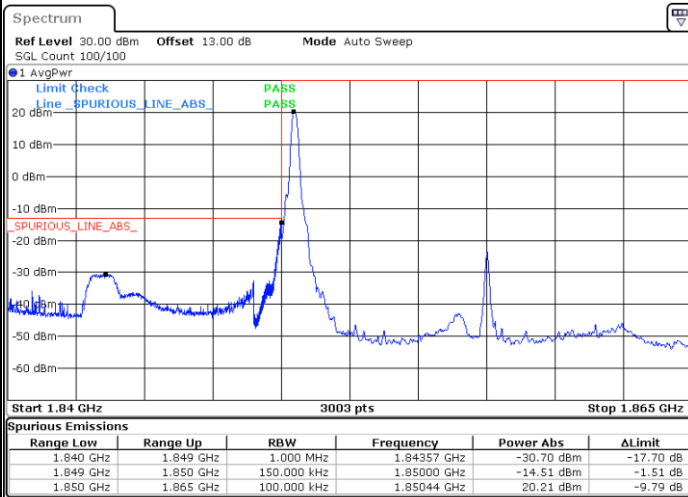




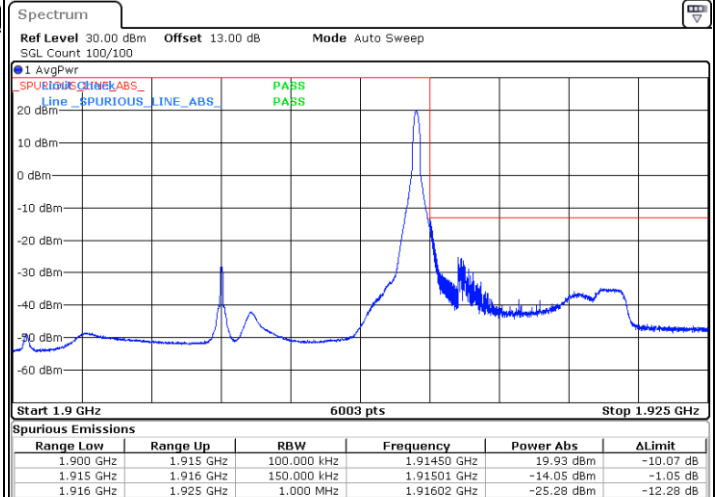
FR1 n25 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



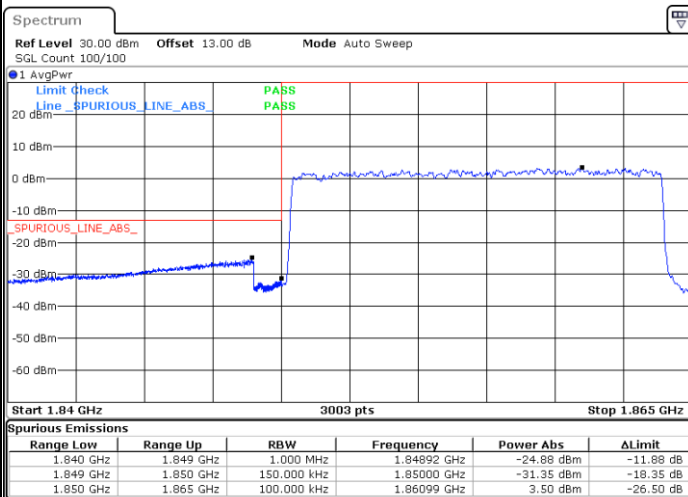
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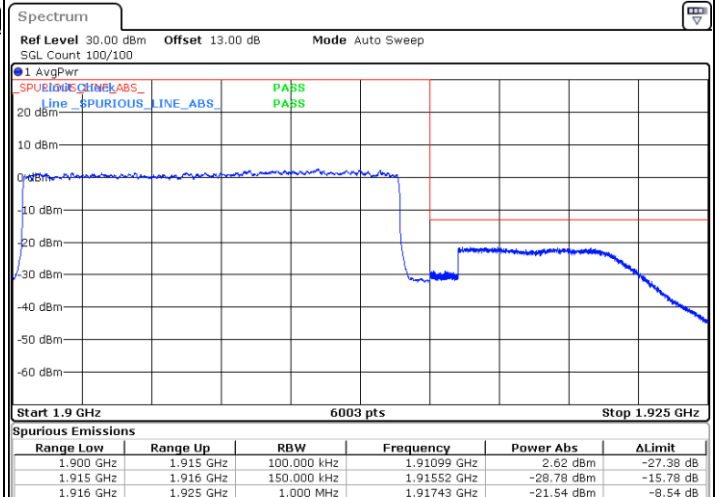
Date: 25.SEP.2020 15:42:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 15:23:53



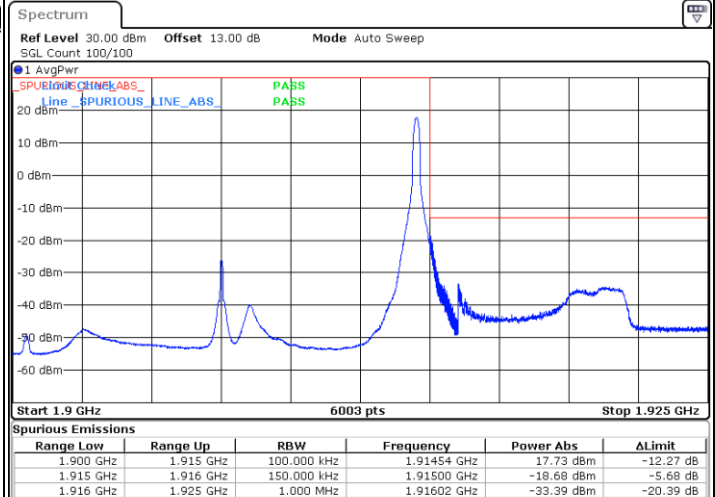
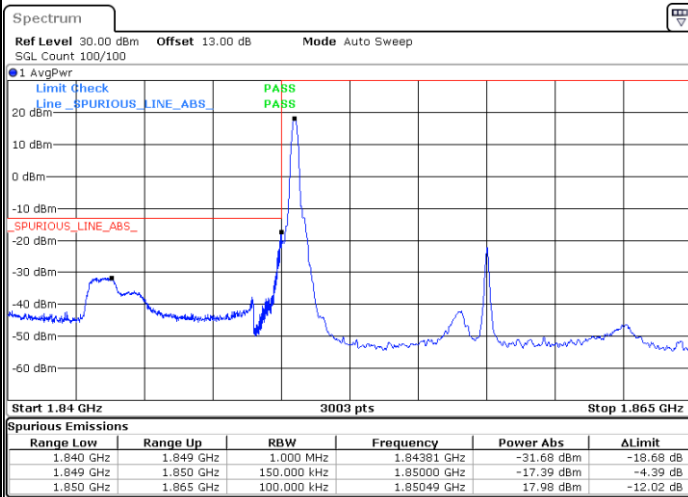
Date: 25.SEP.2020 15:45:25



FR1 n25 / 15MHz / DFT-s-OFDM / 256QAM

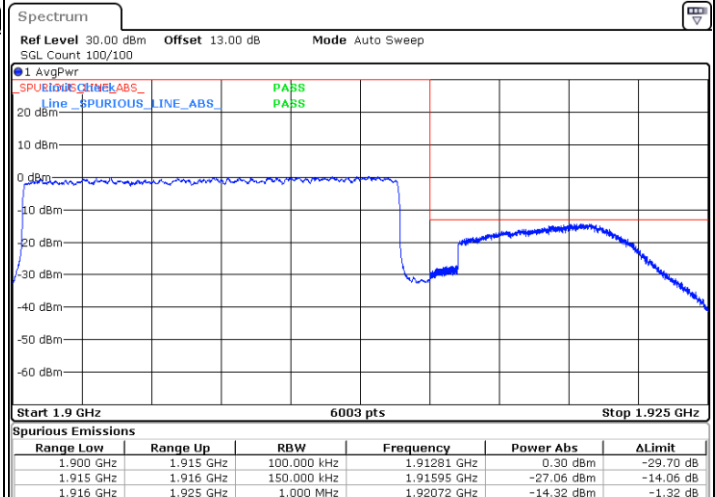
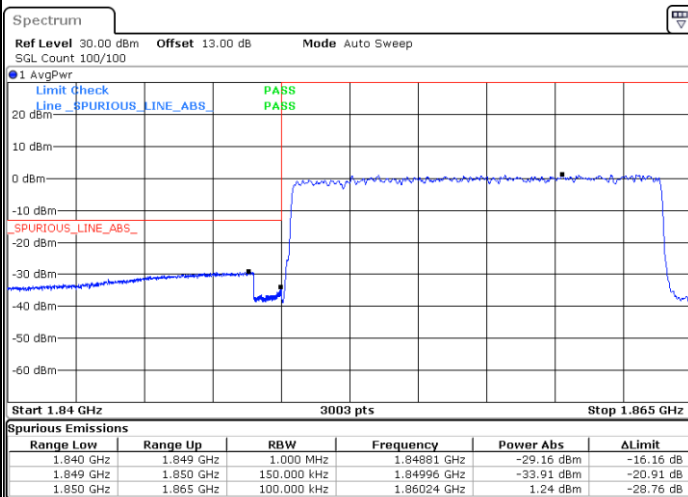
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

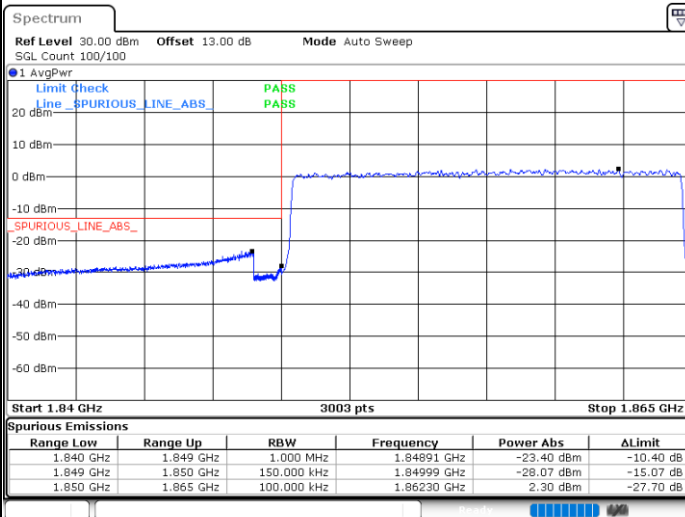




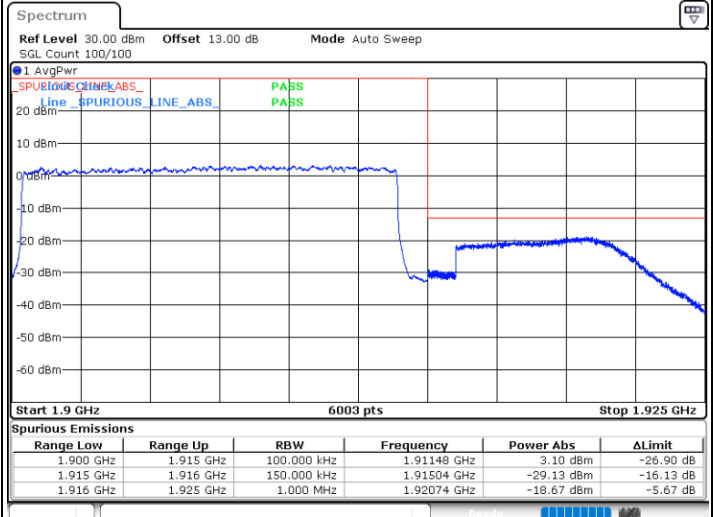
FR1 n25 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 15:27:35



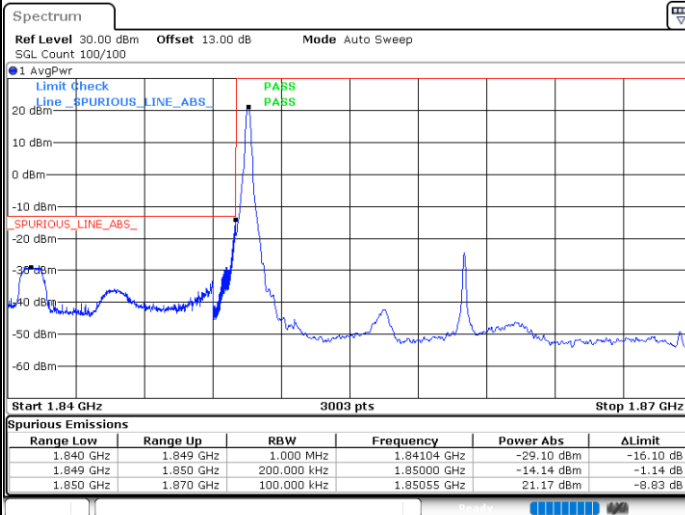
Date: 25.SEP.2020 15:34:21



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

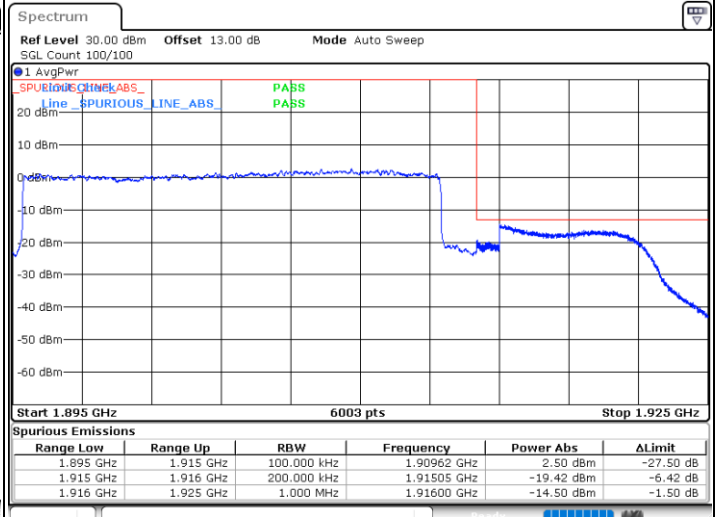
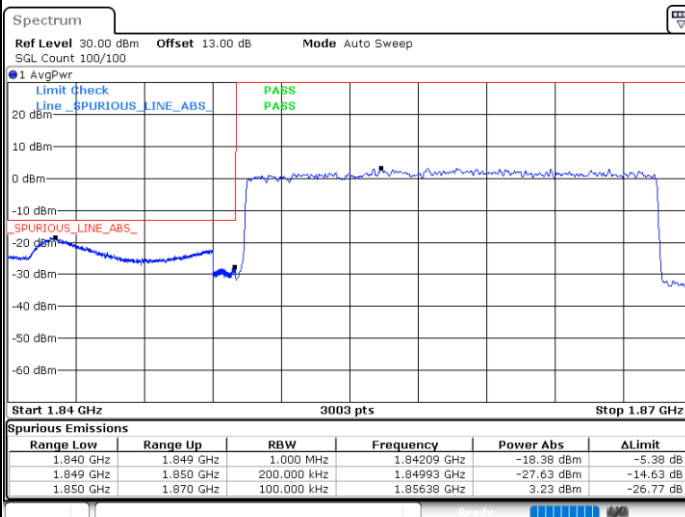
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

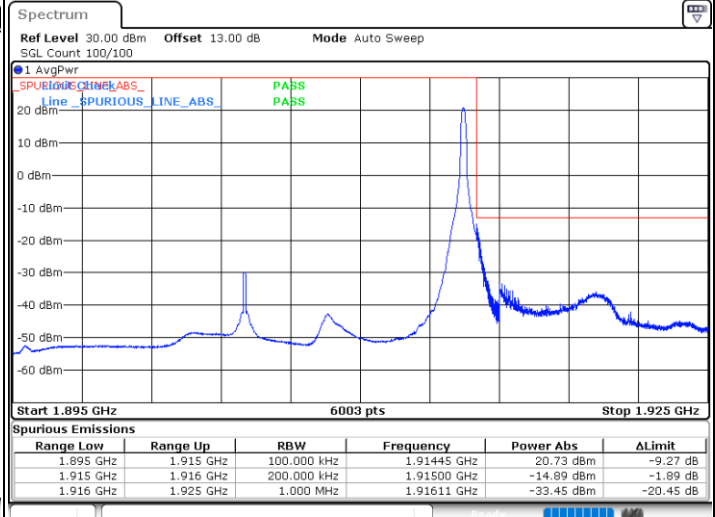
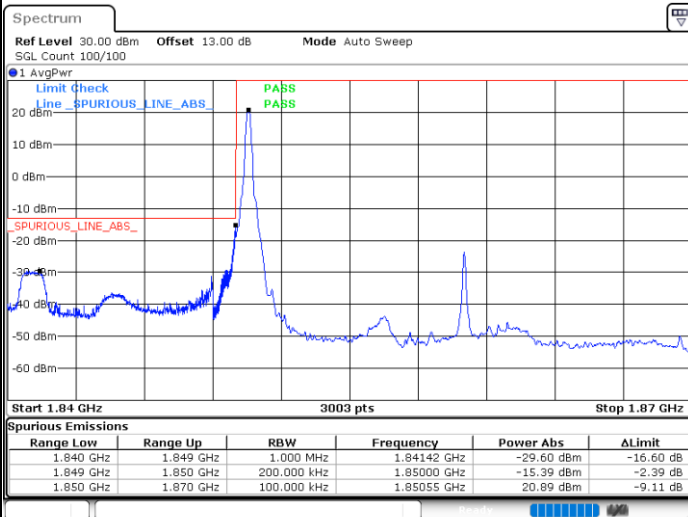




FR1 n25 / 20MHz / DFT-s-OFDM / QPSK

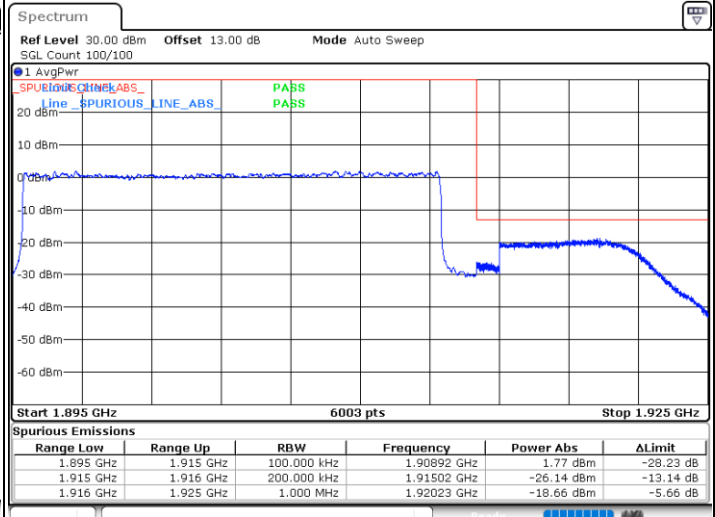
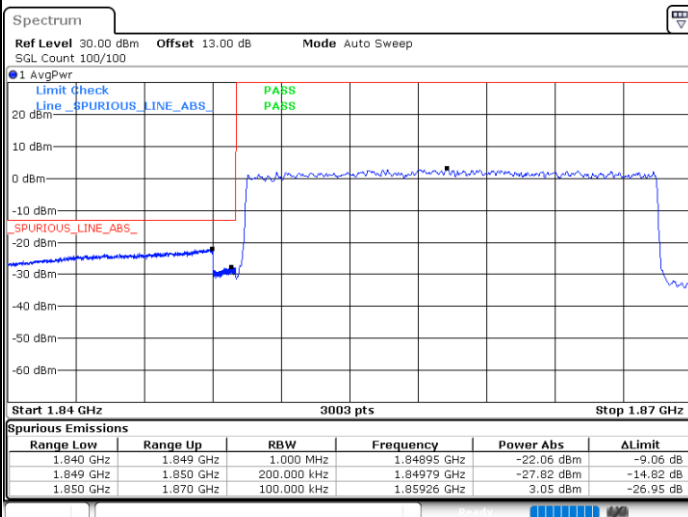
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

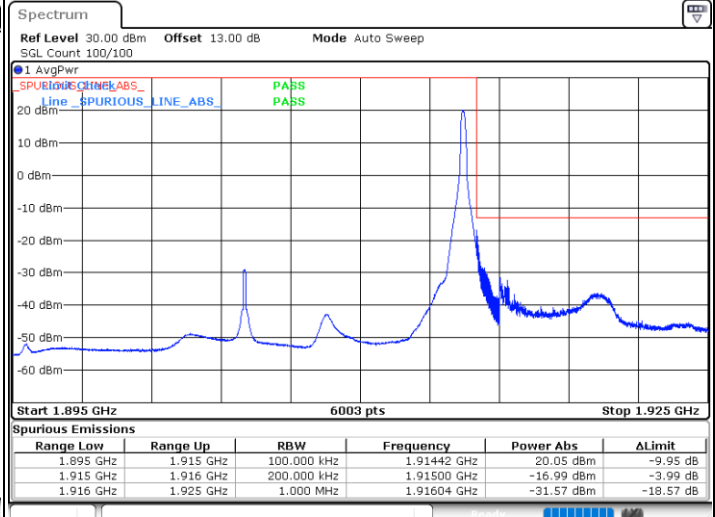
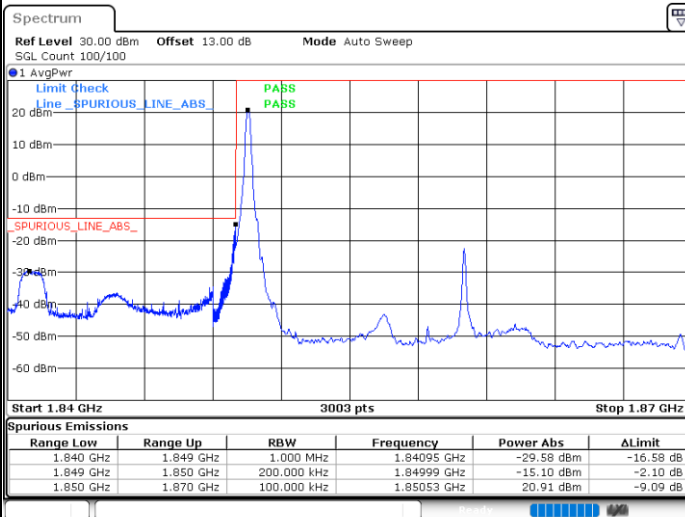




FR1 n25 / 20MHz / DFT-s-OFDM / 16QAM

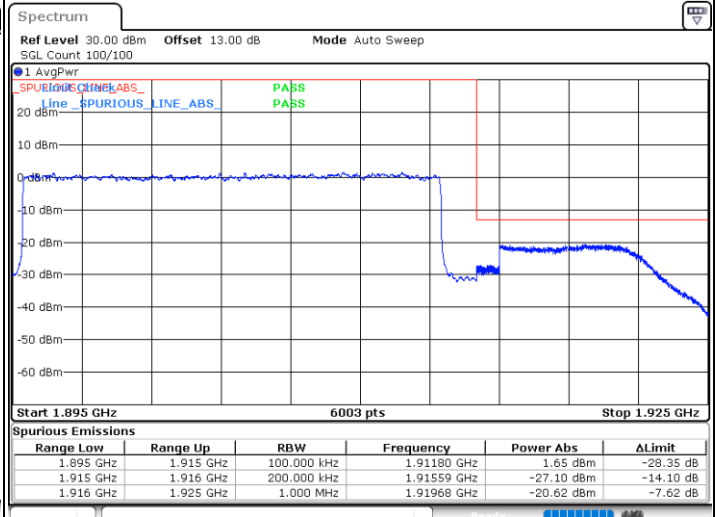
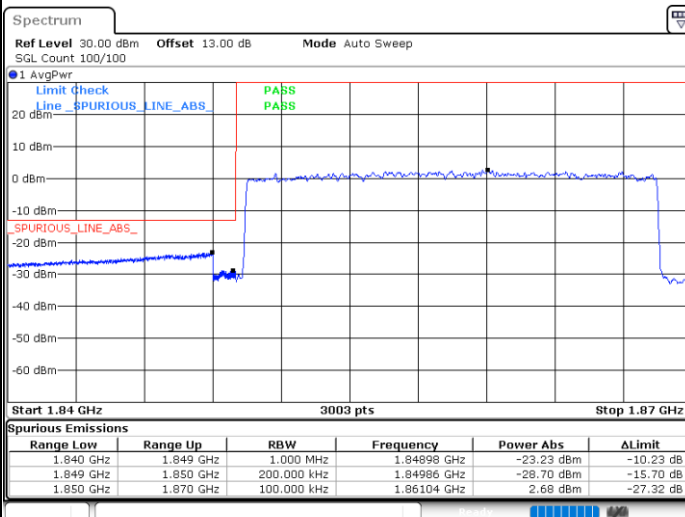
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

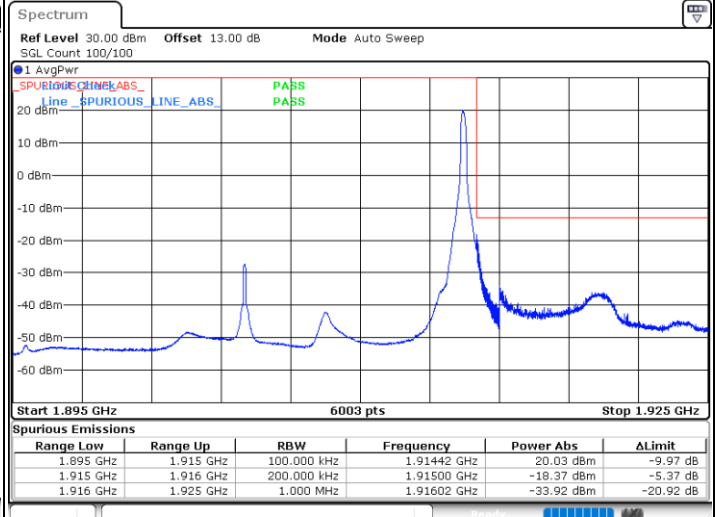
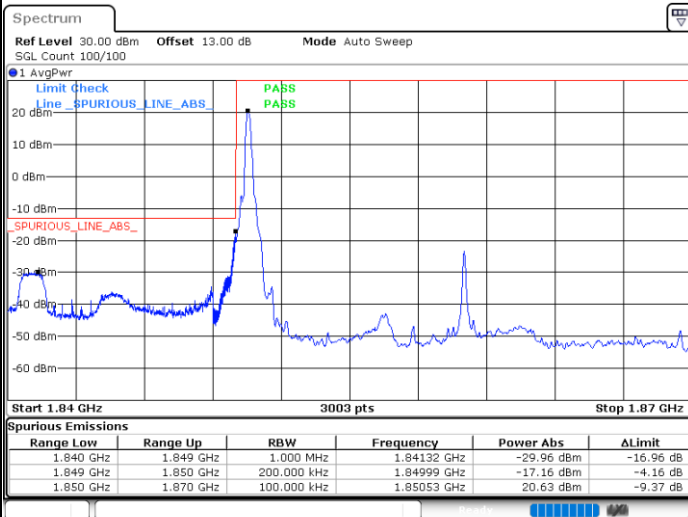




FR1 n25 / 20MHz / DFT-s-OFDM / 64QAM

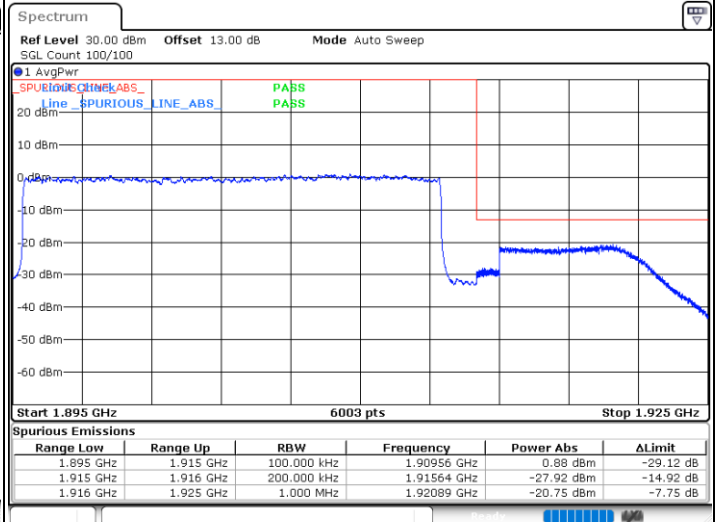
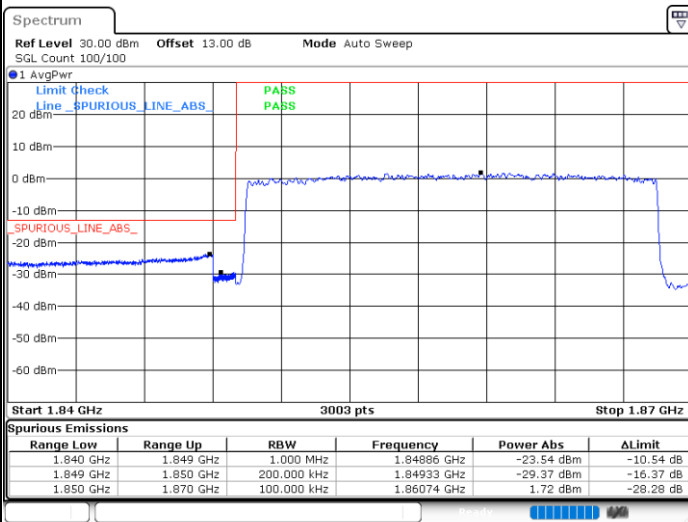
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

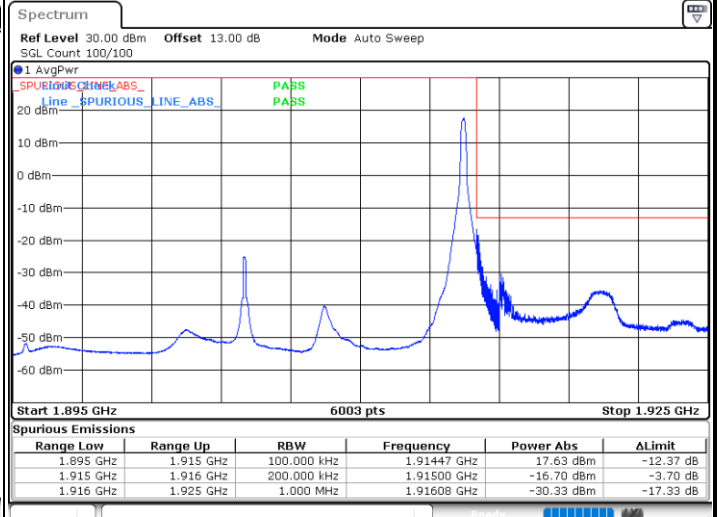
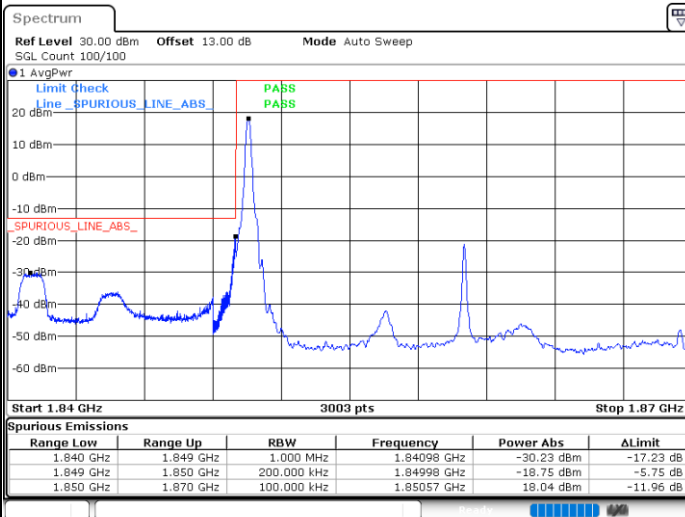




FR1 n25 / 20MHz / DFT-s-OFDM / 256QAM

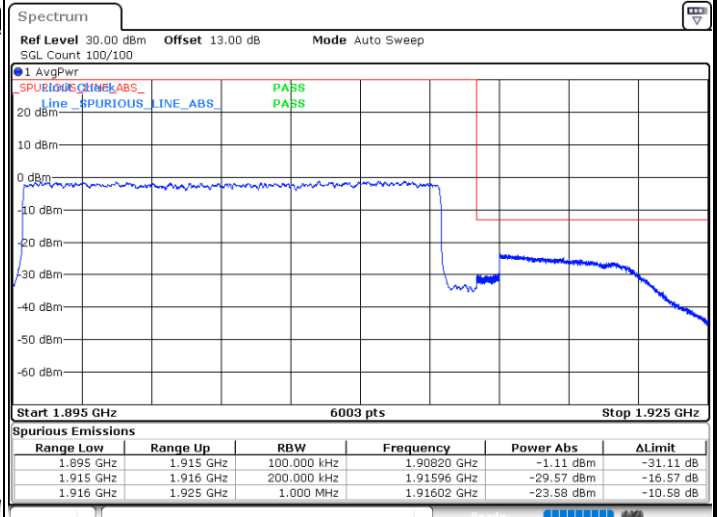
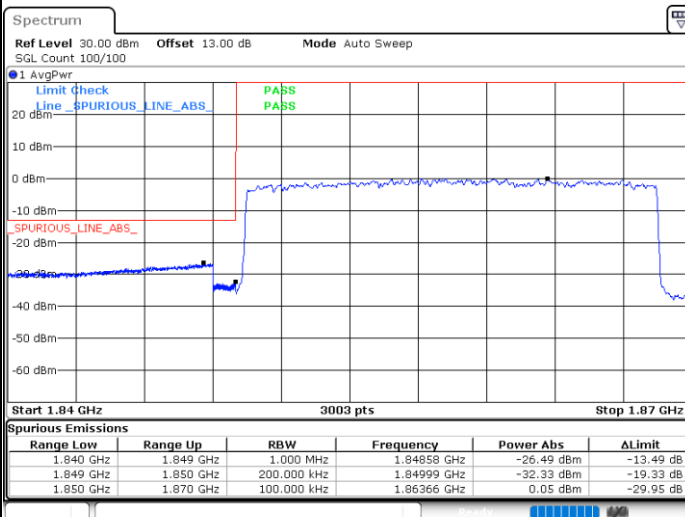
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

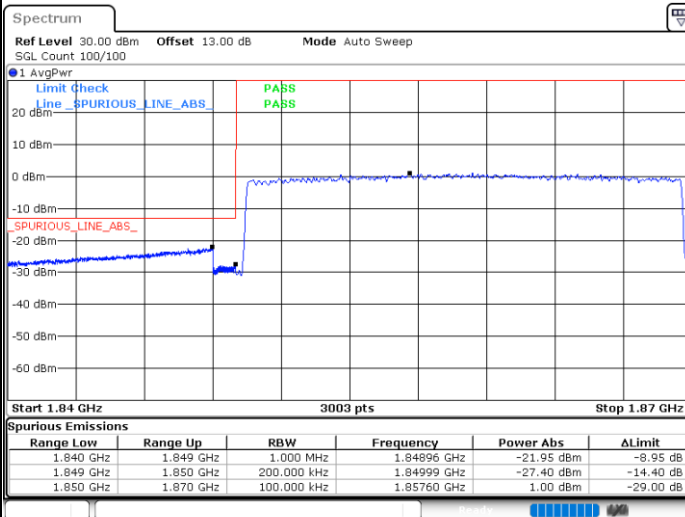




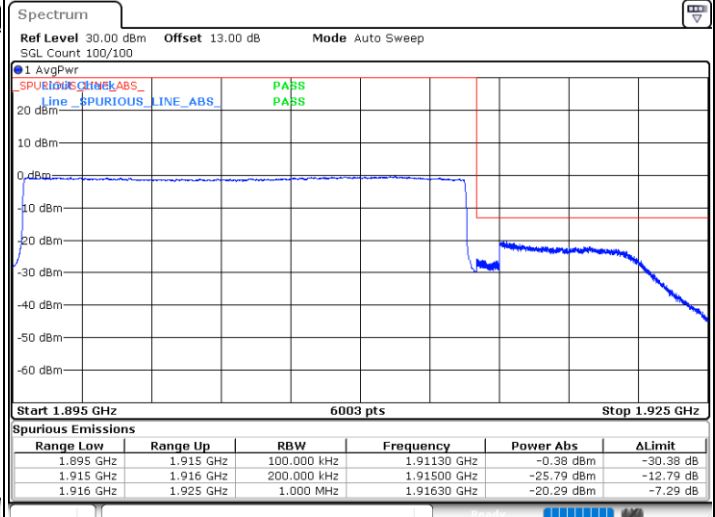
FR1 n25 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.SEP.2020 14:47:25



Date: 25.SEP.2020 15:04:41

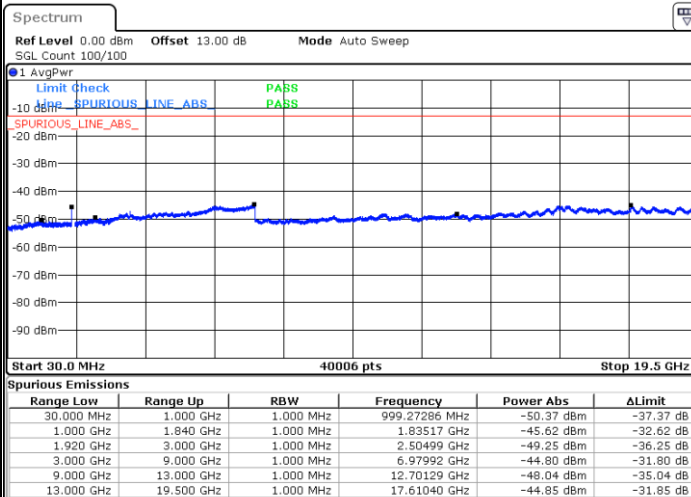


Conducted Spurious Emission

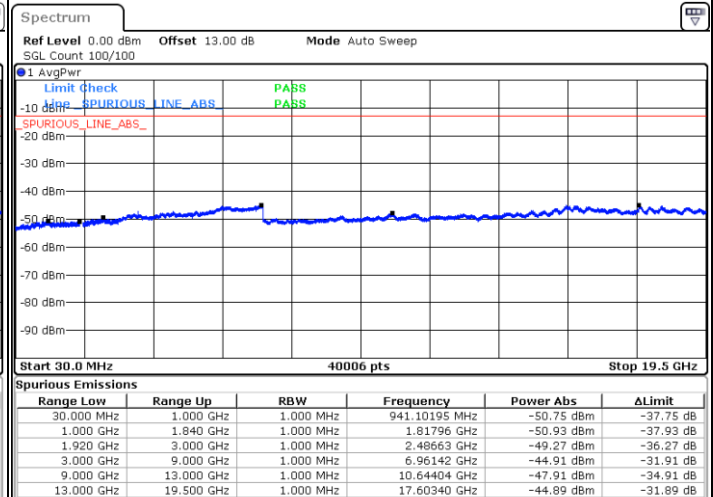
FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

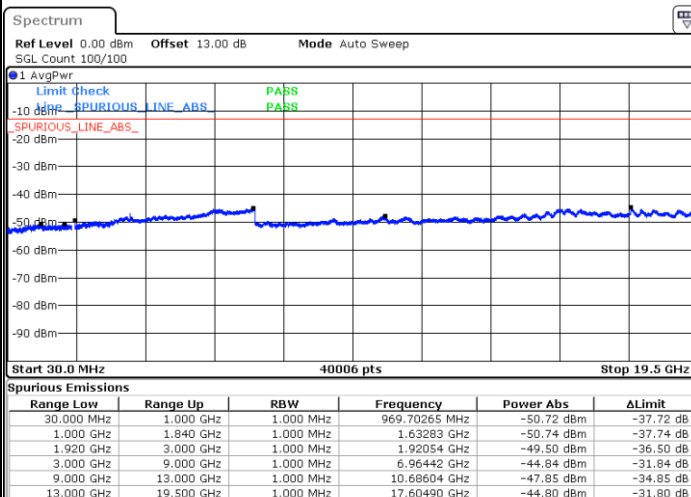


Date: 25.SEP.2020 16:32:56



Date: 25.SEP.2020 14:38:46

Highest Channel / 1RB1

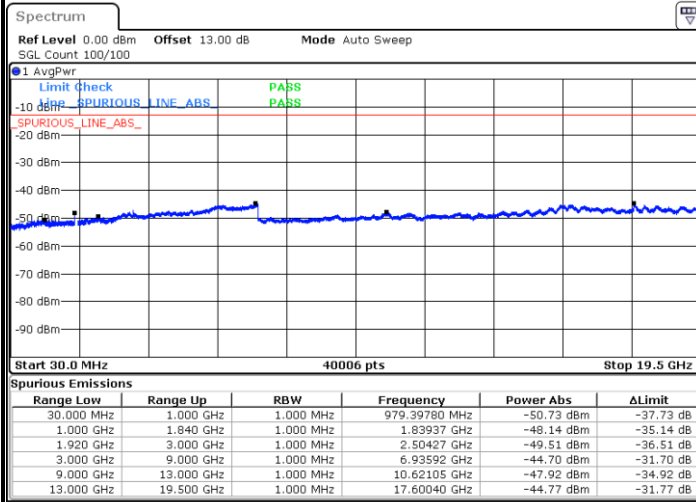


Date: 25.SEP.2020 16:57:17



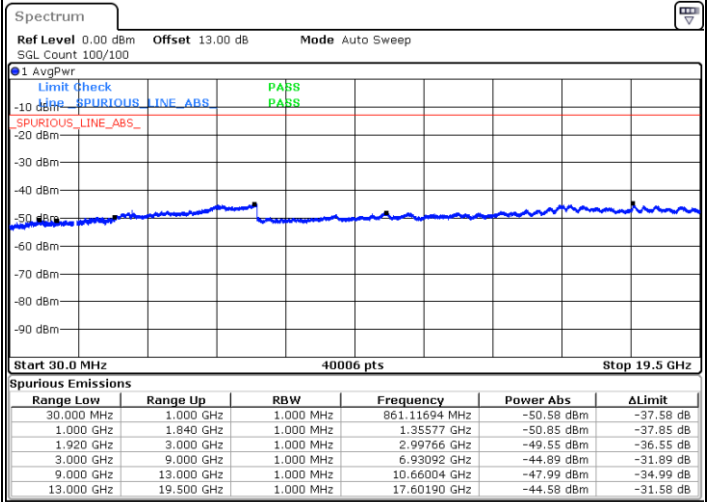
FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



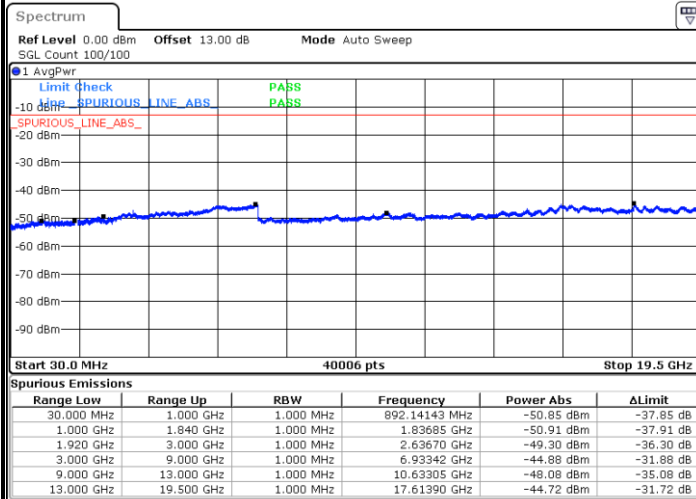
Date: 25.SEP.2020 16:04:34

Middle Channel / 1RB1



Date: 25.SEP.2020 14:39:57

Highest Channel / 1RB1



Date: 25.SEP.2020 16:12:50



Middle Channel / 1RB1

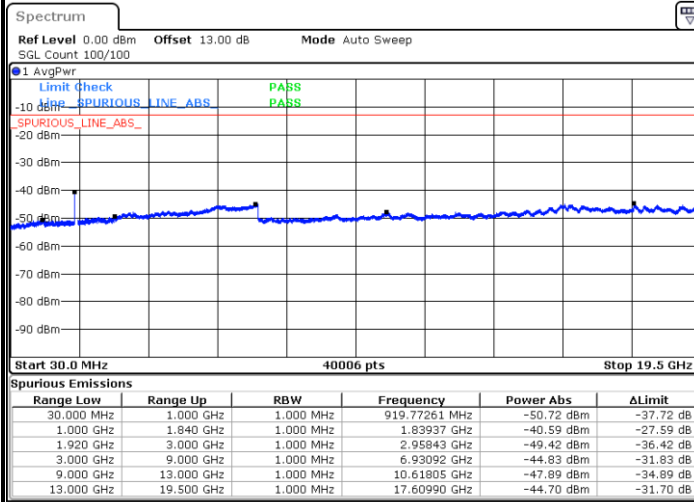


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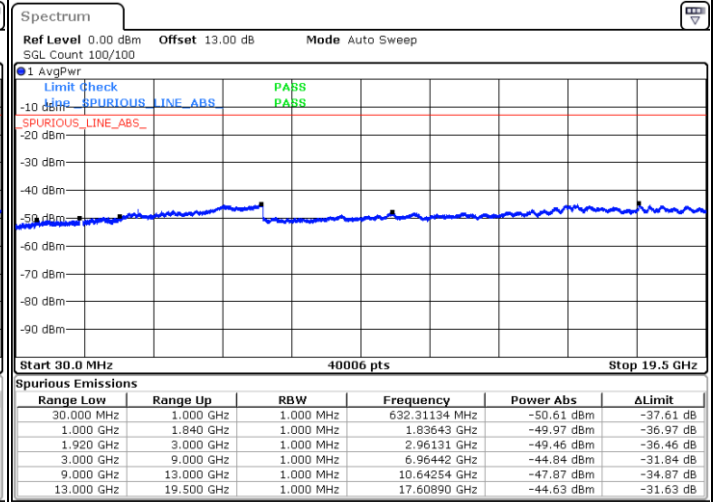
FR1 n25 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



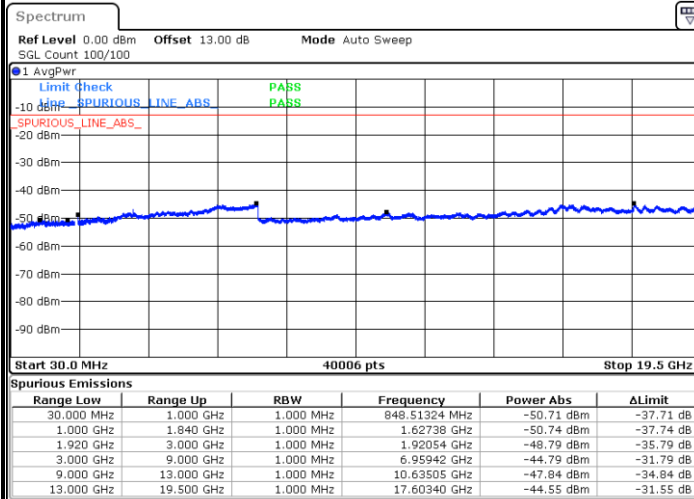
Date: 25.SEP.2020 14:44:14

Middle Channel / 1RB1



Date: 25.SEP.2020 13:48:59

Highest Channel / 1RB1



Date: 25.SEP.2020 15:02:46

Frequency Stability

Test Conditions		FR1 n25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0162	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0164	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0013	

Note:

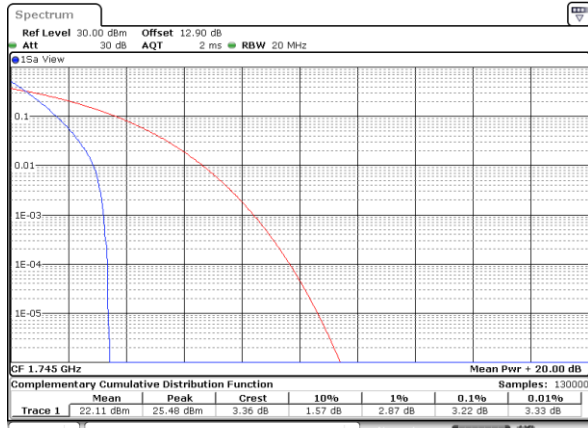
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n66****Peak-to-Average Ratio**

Mode	FR1 n66 / 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	3.22	4.29	5.45	5.94	PASS
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.64				PASS

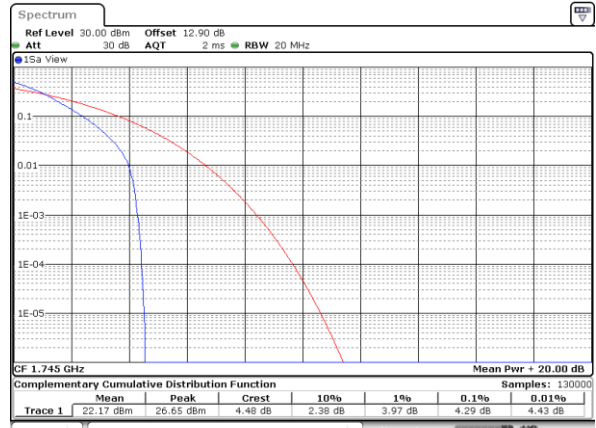
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



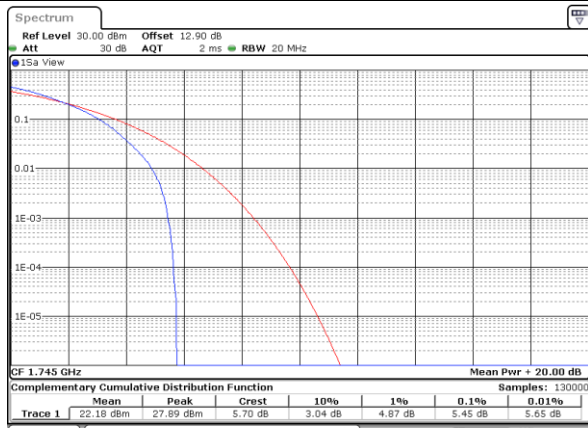
Date: 24.SEP.2020 14:37:00

QPSK



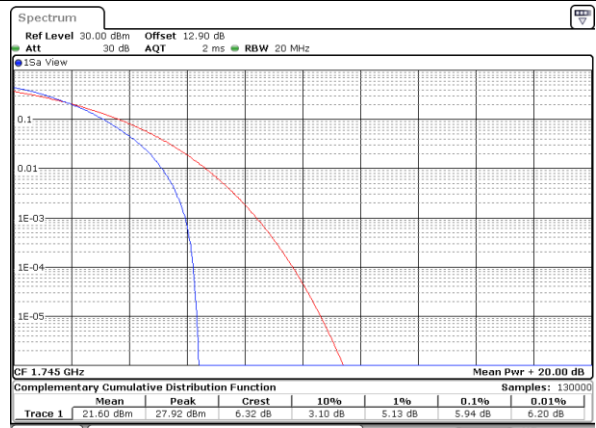
Date: 24.SEP.2020 14:46:54

16QAM



Date: 24.SEP.2020 14:48:58

64QAM



Date: 24.SEP.2020 14:50:03

256QAM



Date: 24.SEP.2020 14:52:03

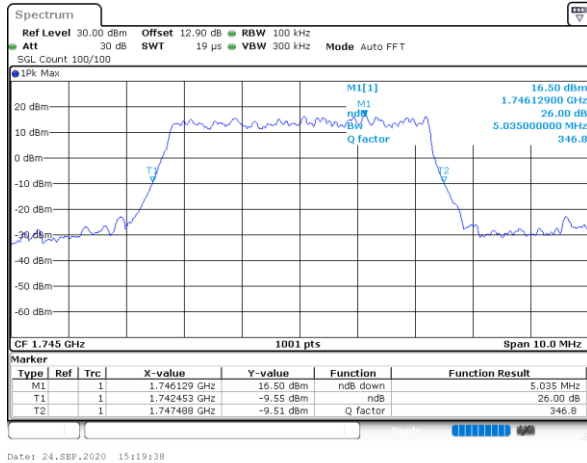
**26dB Bandwidth**

Mode	FR1 n66 : 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	5.04		9.41		14.12		18.82	

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.96	5.04	9.87	9.73	14.90	14.93	19.86	19.78
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.83	5.01	9.83	9.87	14.96	14.87	19.86	19.74

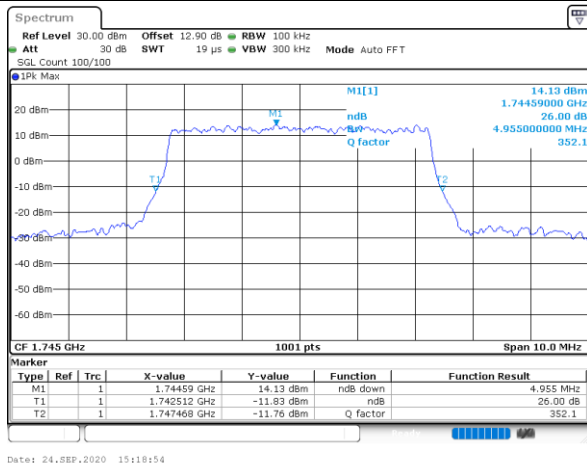
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

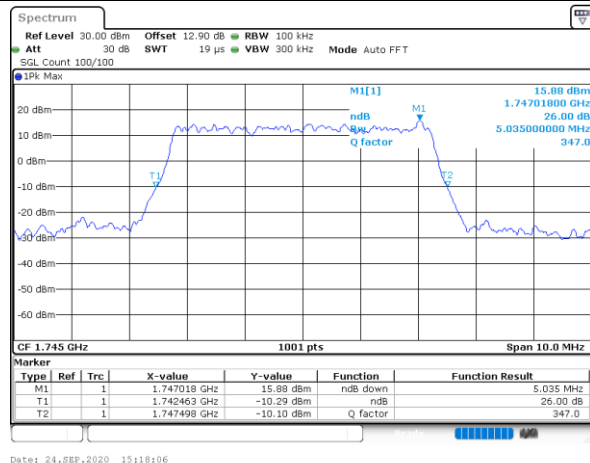


FR1 n66 / 5MHz / CP OFDM / Middle Channel

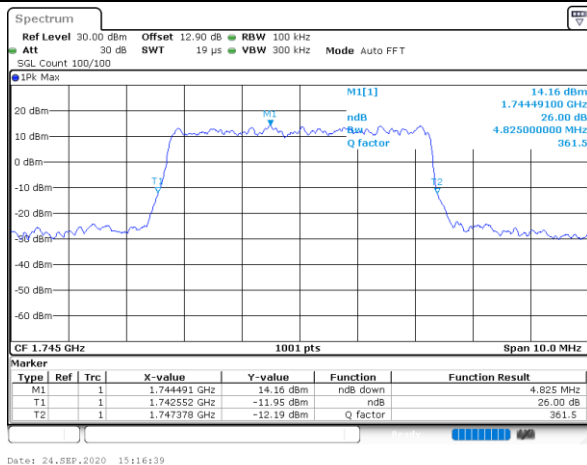
QPSK



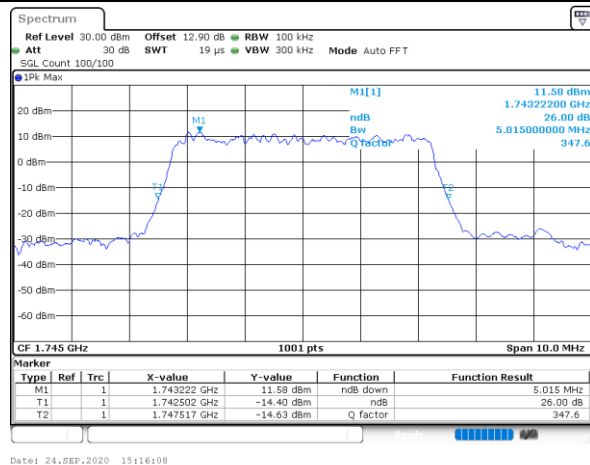
16QAM



64QAM



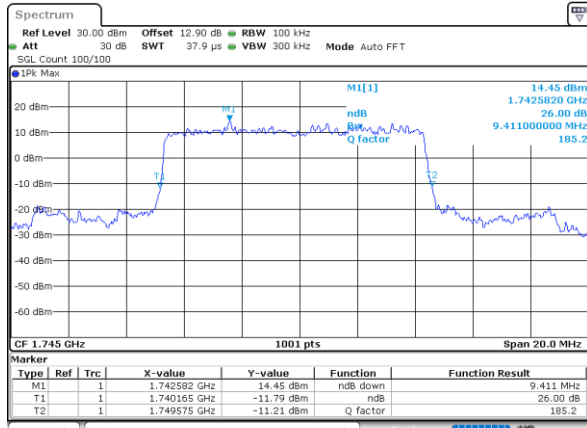
256QAM





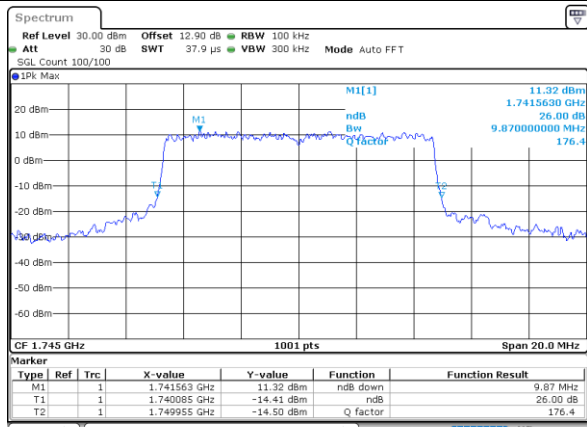
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

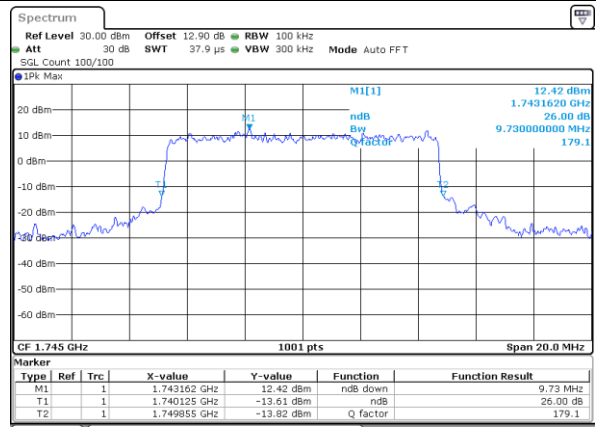


FR1 n66 / 10MHz / CP OFDM / Middle Channel

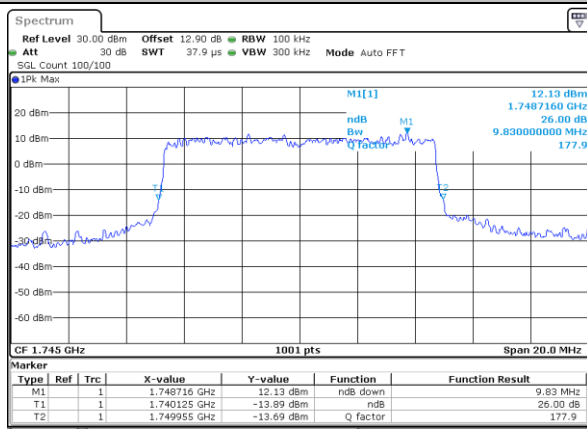
QPSK



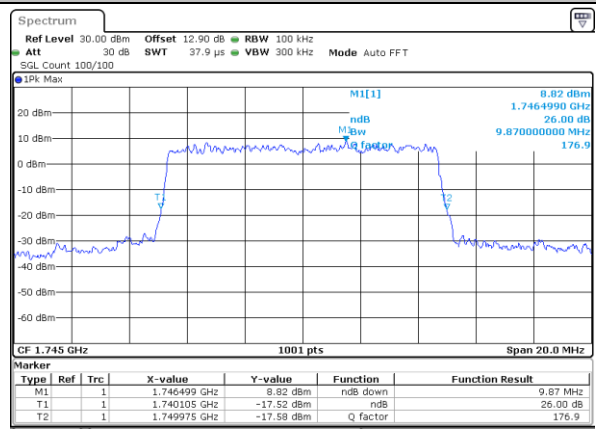
16QAM

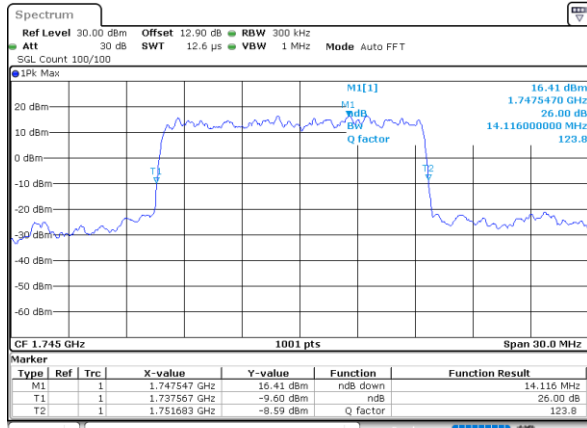


64QAM

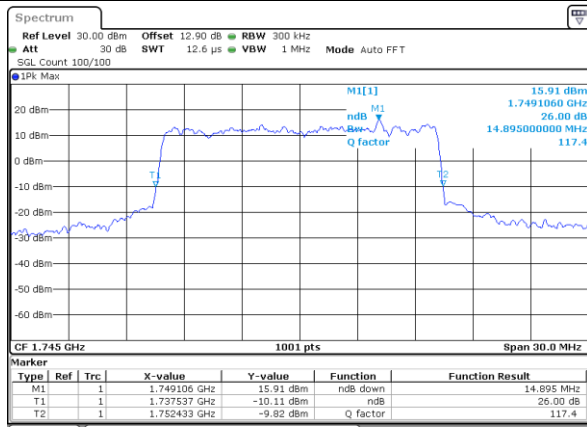


256QAM

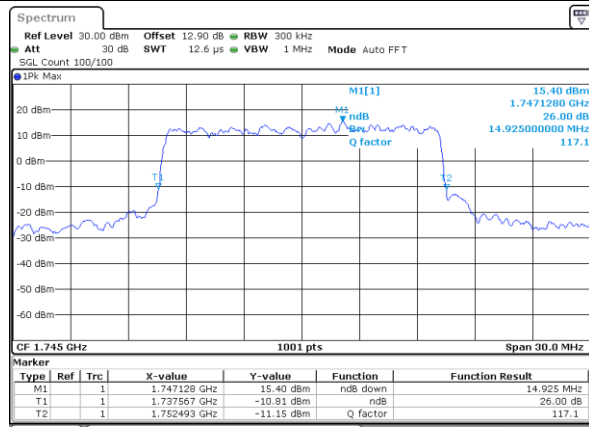


FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel
PI/2 BPSK


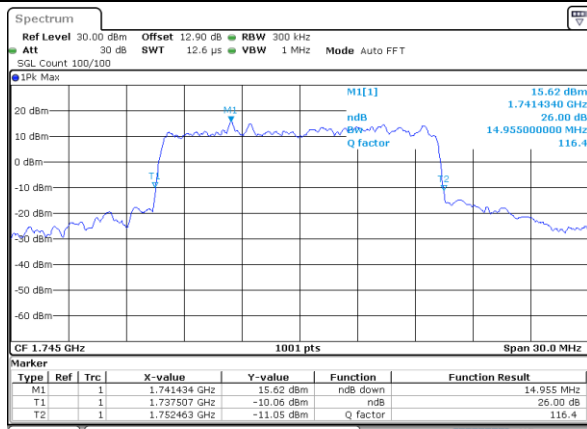
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FR1 n66 / 15MHz / CP OFDM / Middle Channel
QPSK


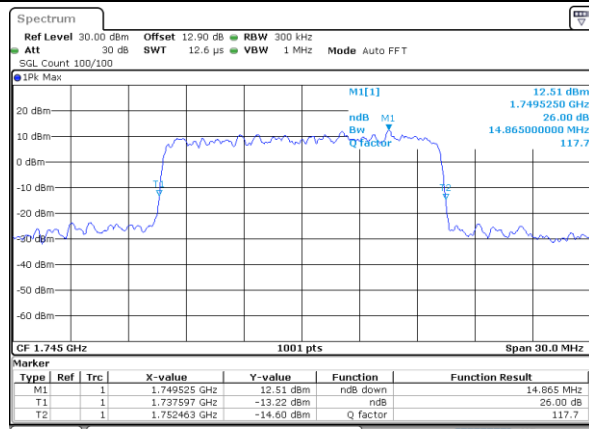
Date: 24.SEP.2020 15:09:39

16QAM


Date: 24.SEP.2020 14:56:09

64QAM


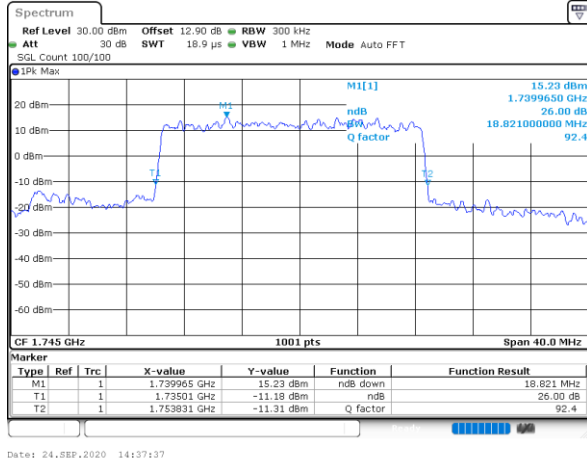
Date: 24.SEP.2020 14:55:29

256QAM


Date: 24.SEP.2020 14:54:56

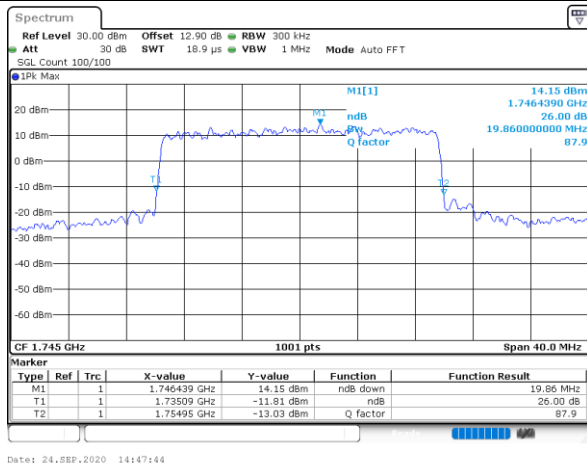
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

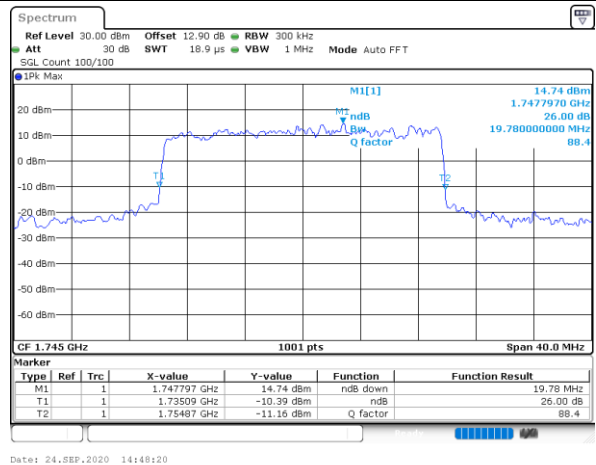


FR1 n66 / 20MHz / CP OFDM

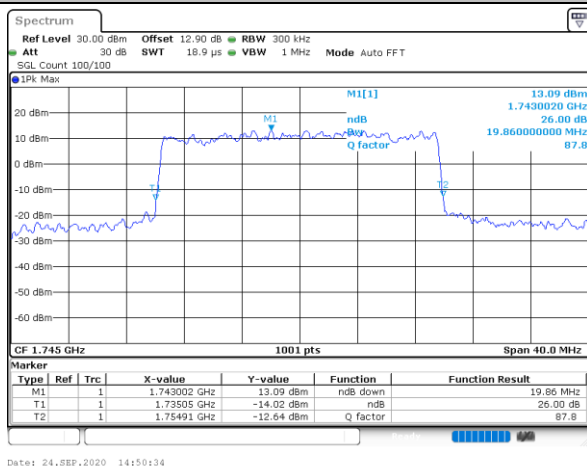
QPSK



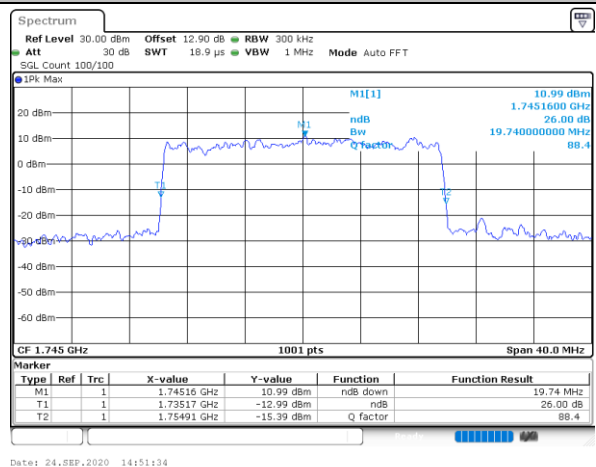
16QAM



64QAM



256QAM



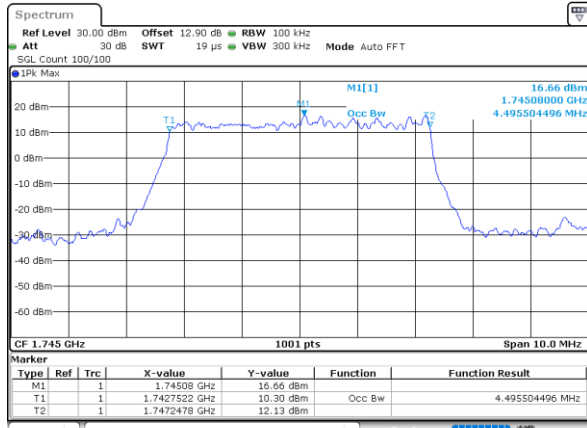
**Occupied Bandwidth**

Mode	FR1 n66 : 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		8.93		13.46		17.86	

Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.47	4.48	9.29	9.27	14.12	14.12	18.90	18.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.47	4.50	9.27	9.29	14.12	14.09	18.94	18.90

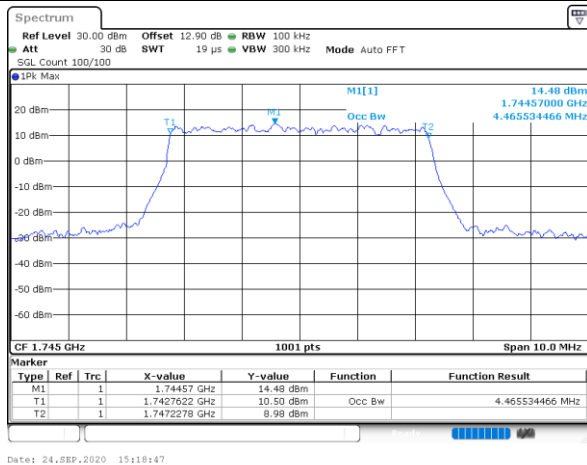
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

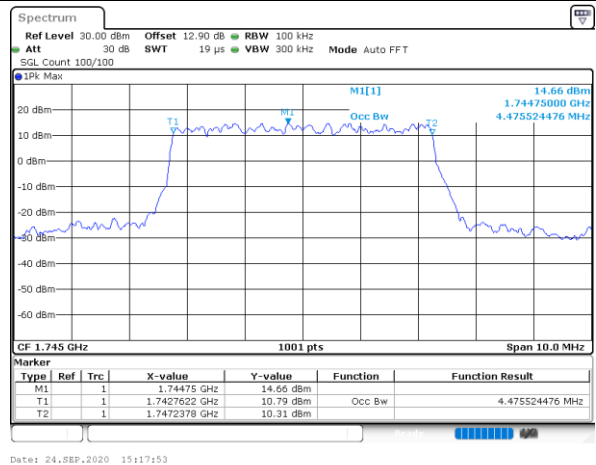


FR1 n66 / 5MHz / CP OFDM

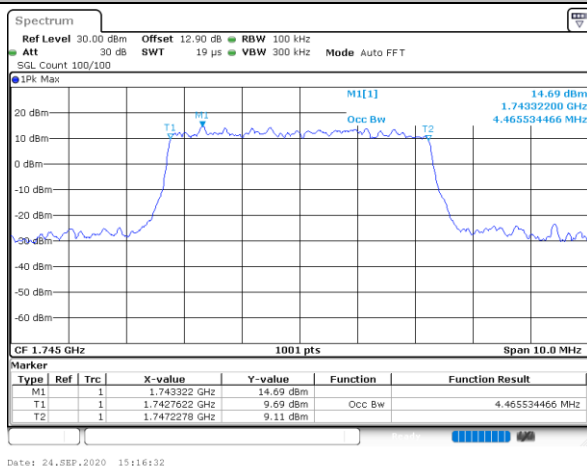
QPSK



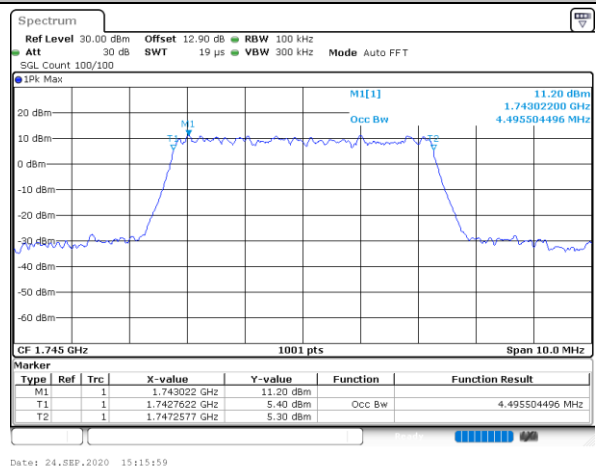
16QAM



64QAM

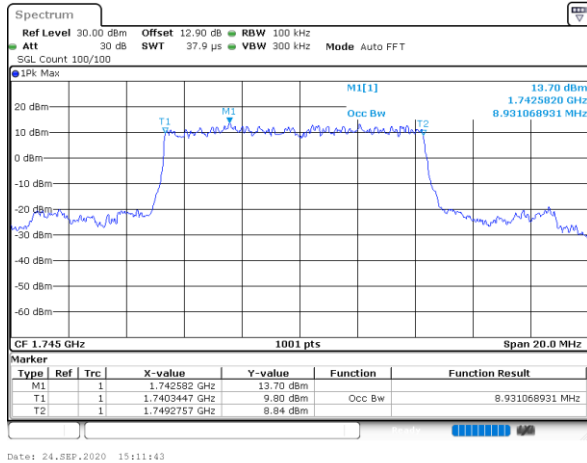


256QAM



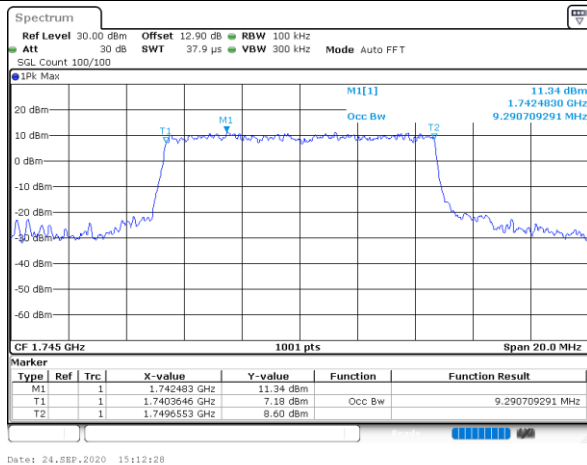
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

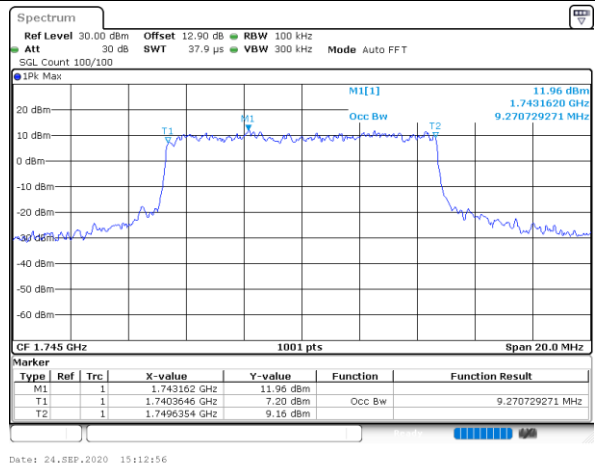


FR1 n66 / 10MHz / CP OFDM

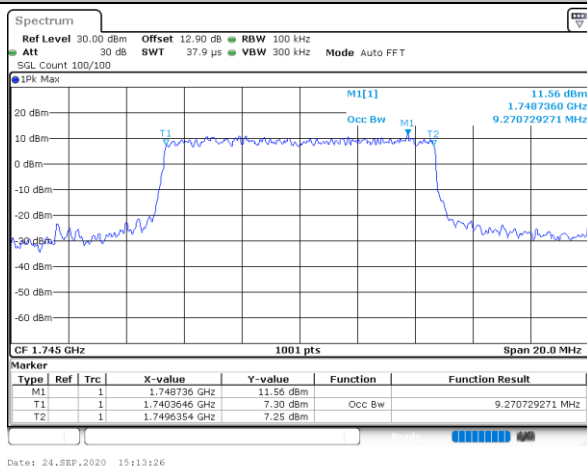
QPSK



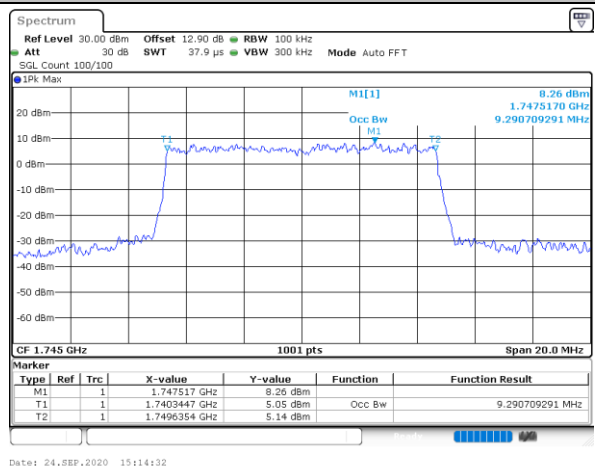
16QAM



64QAM

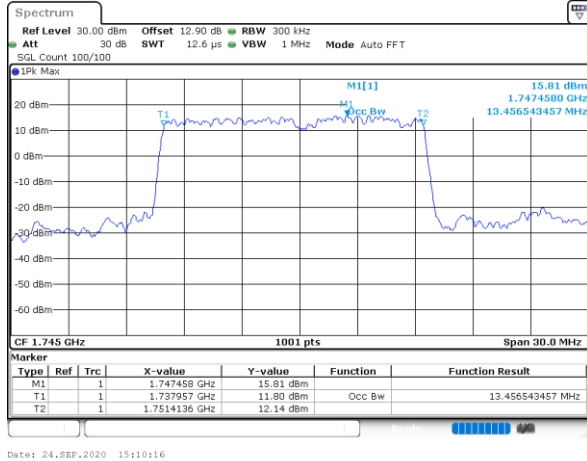


256QAM



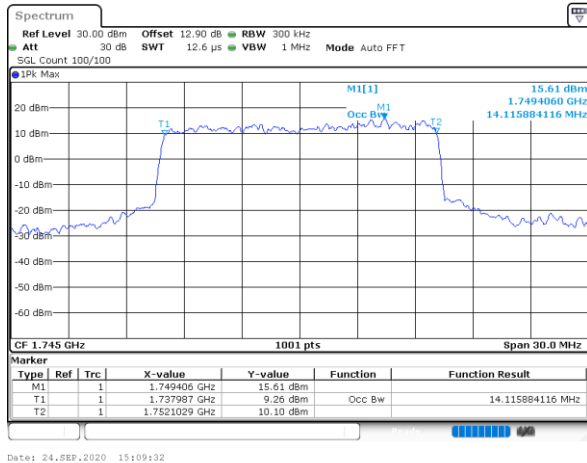
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

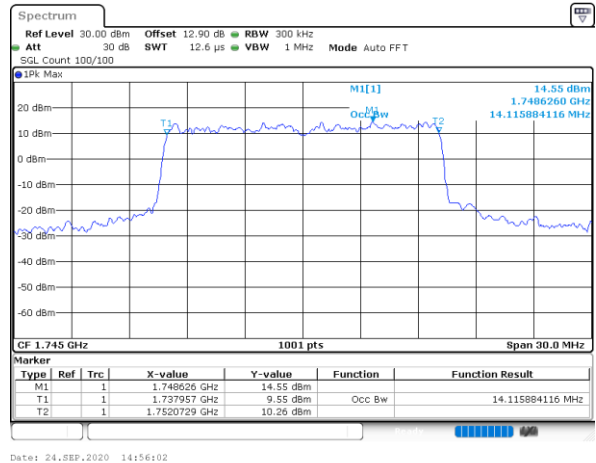


FR1 n66 / 15MHz / CP OFDM

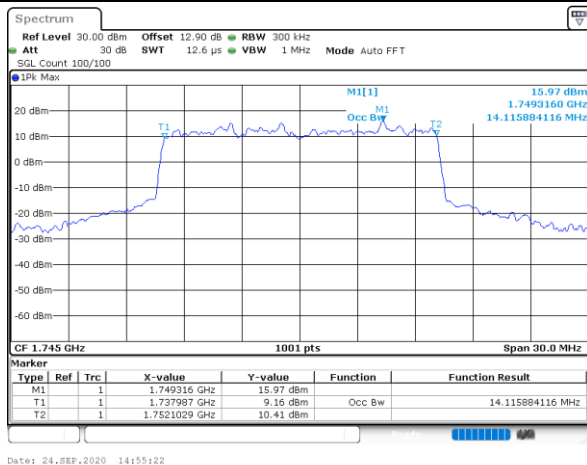
QPSK



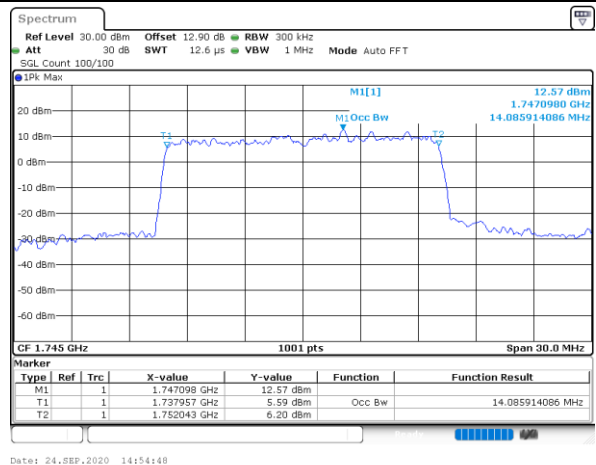
16QAM



64QAM

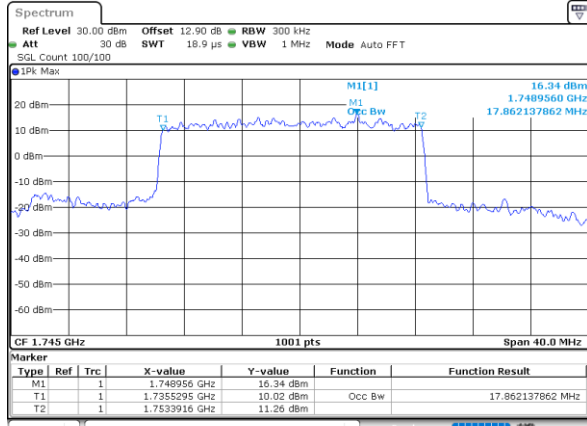


256QAM



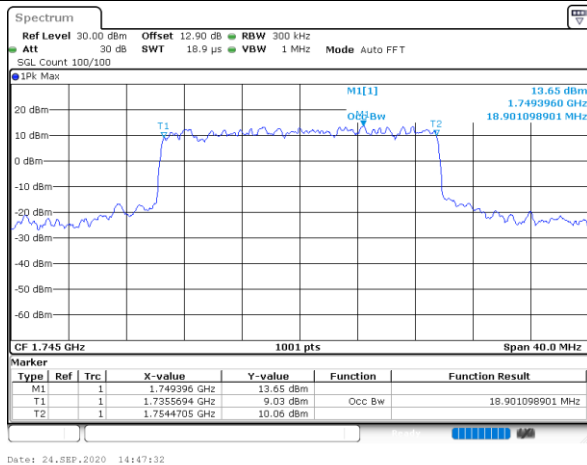
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

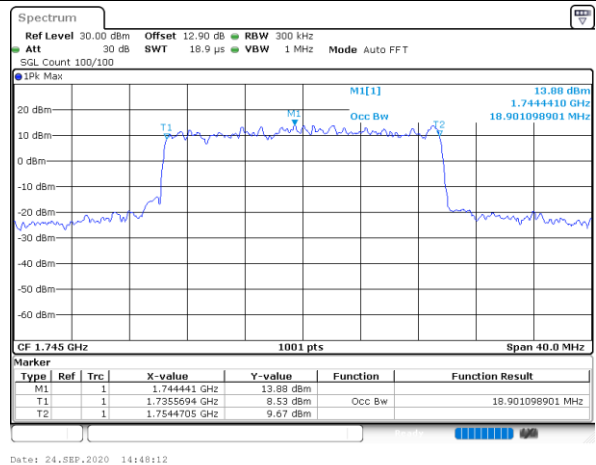


FR1 n66 / 20MHz / CP OFDM

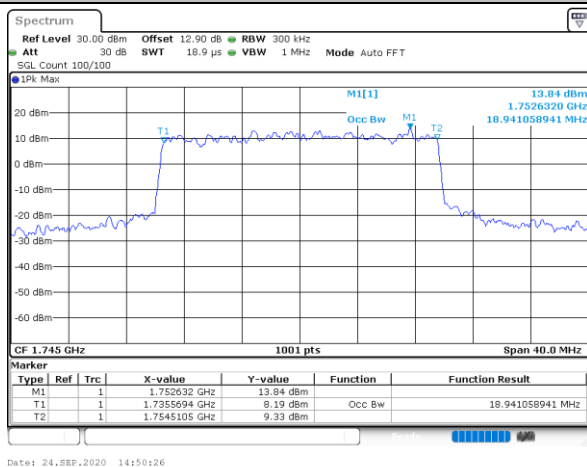
QPSK



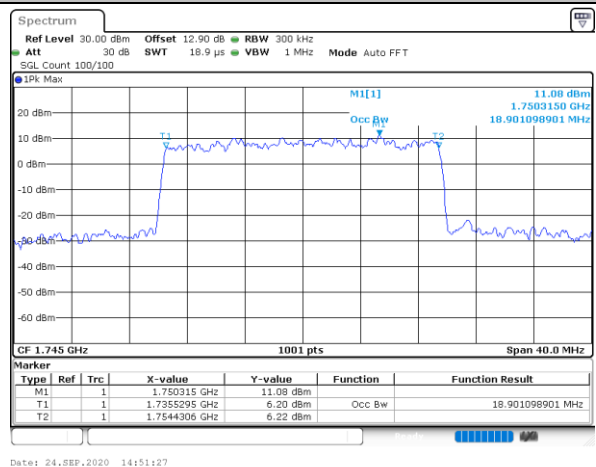
16QAM



64QAM



256QAM

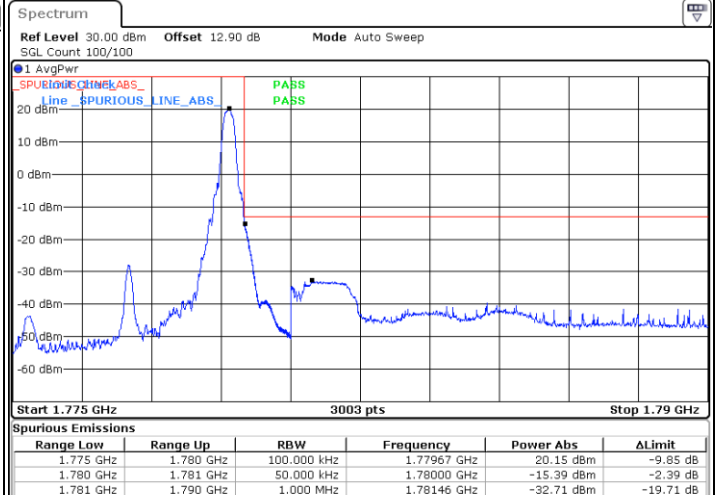
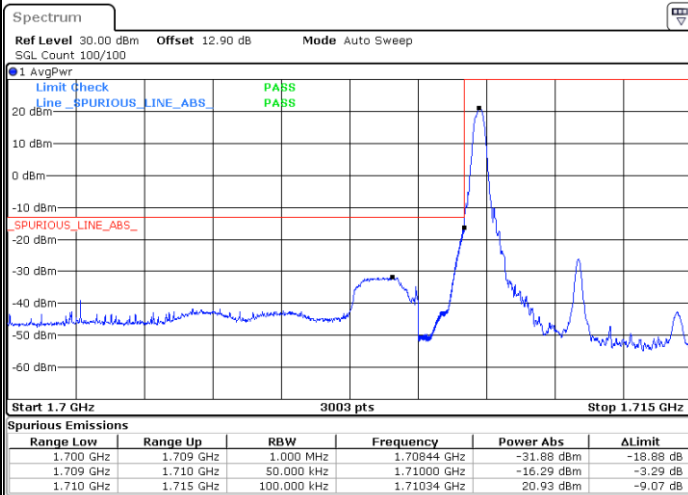


**Conducted Band Edge**

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

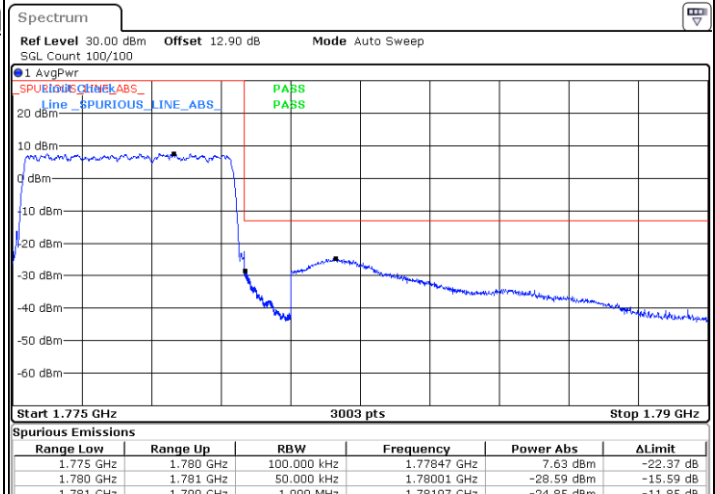
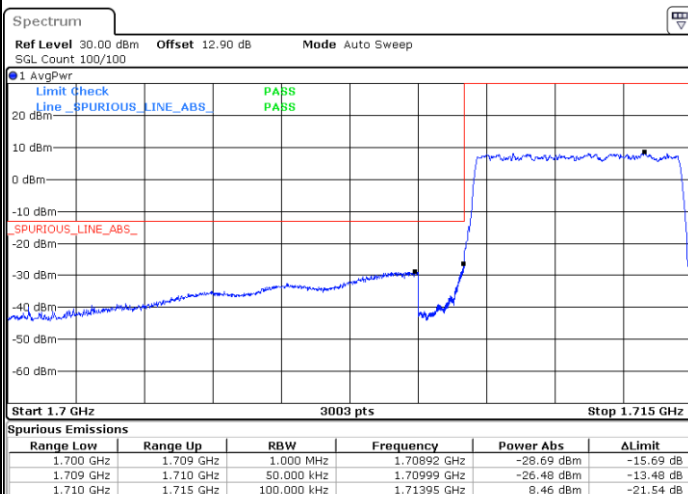
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

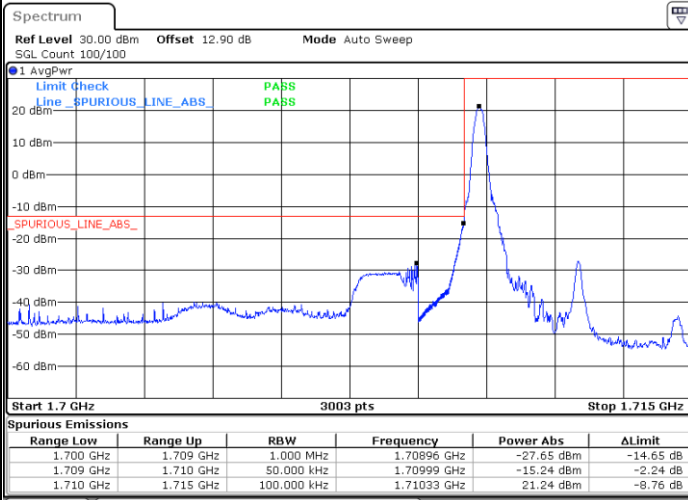




FR1 n66 / 5MHz / DFT-S OFDM / QPSK

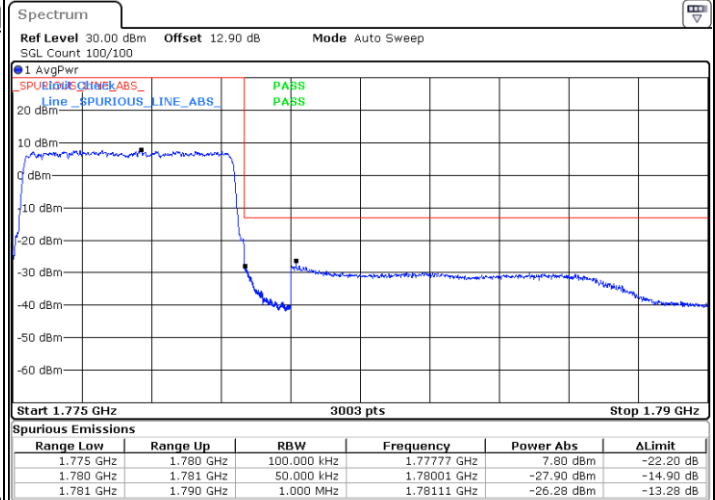
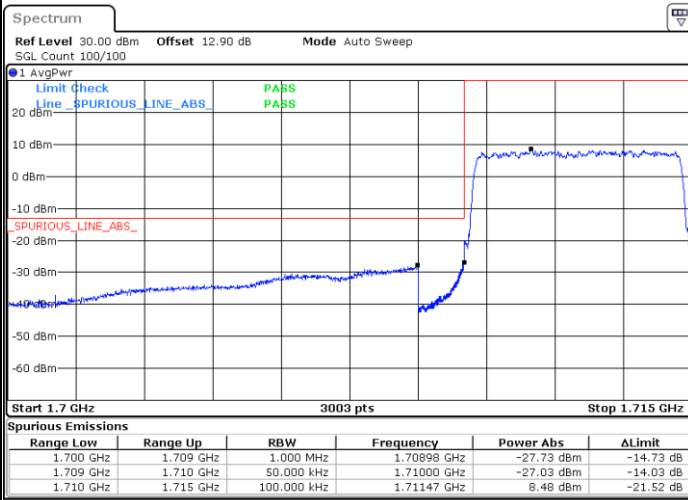
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

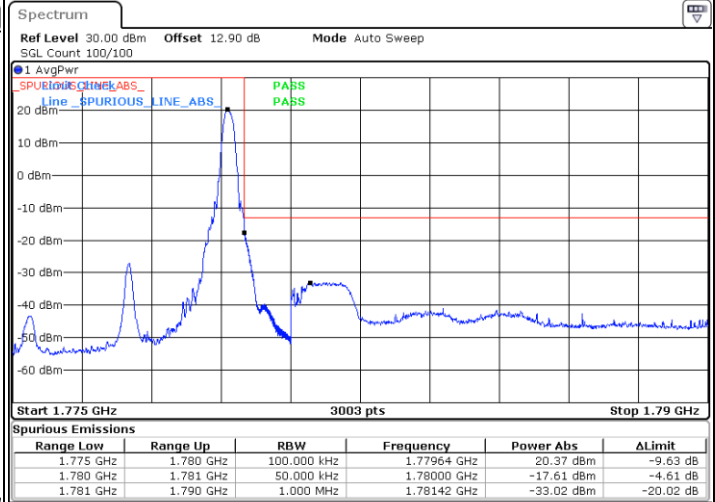
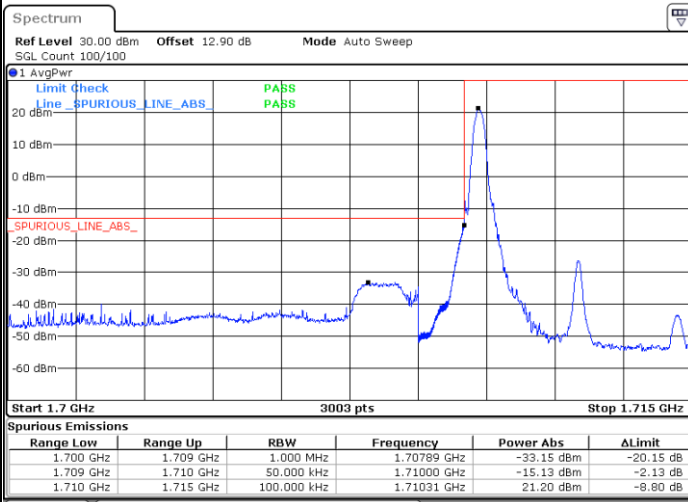




FR1 n66 / 5MHz / DFT-S OFDM / 16QAM

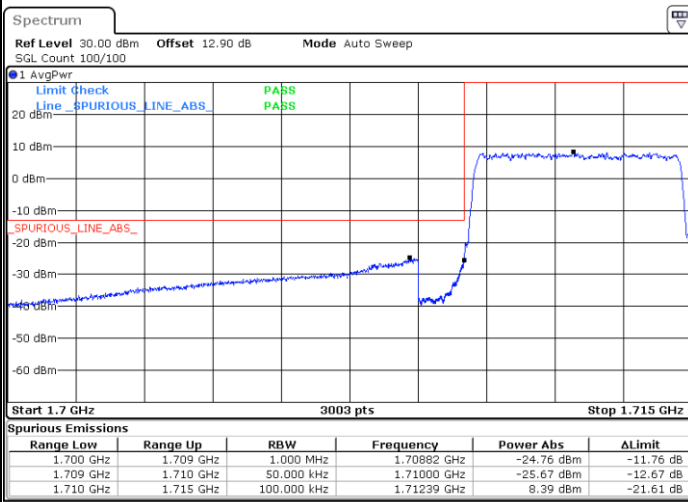
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

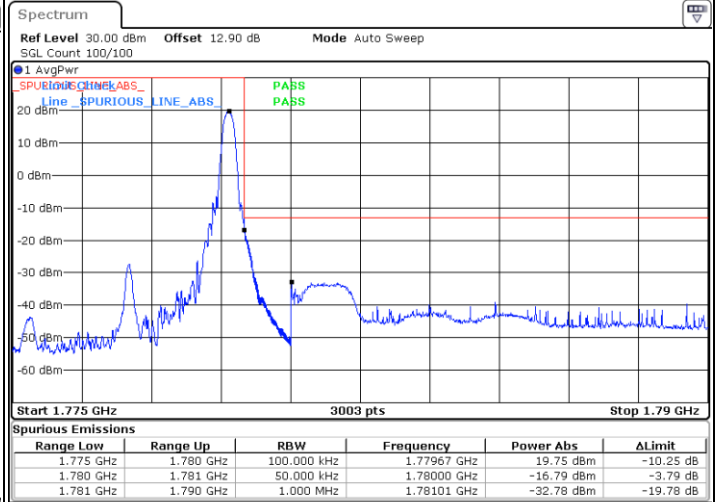
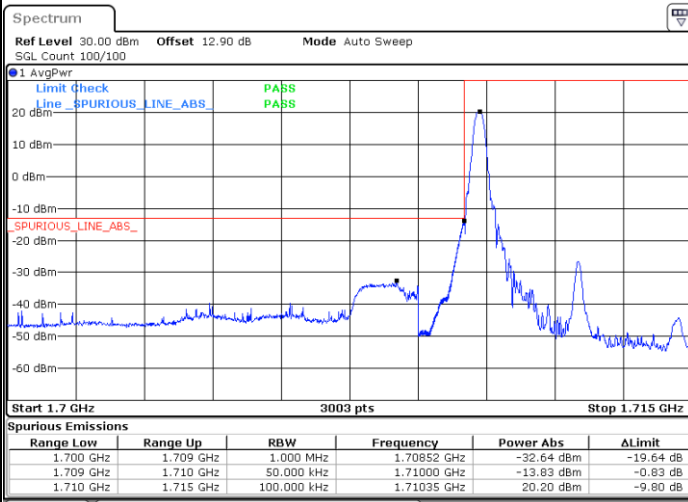




FR1 n66 / 5MHz / DFT-S OFDM / 64QAM

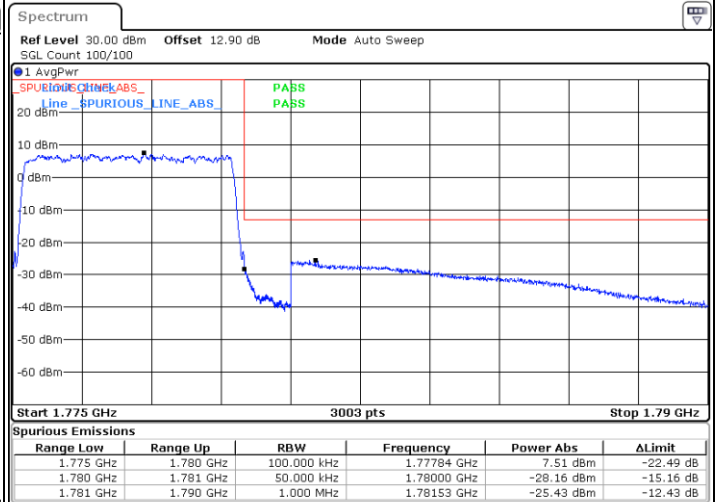
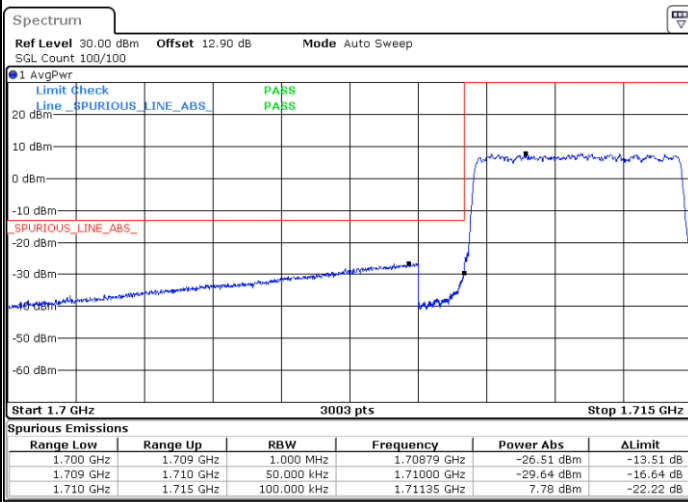
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

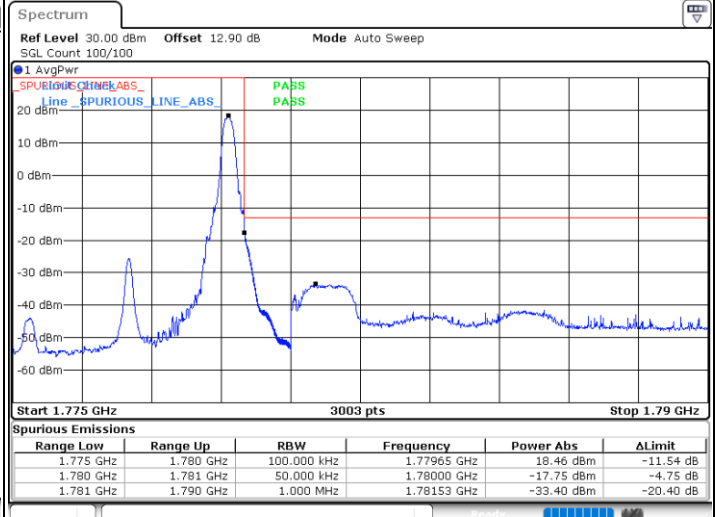
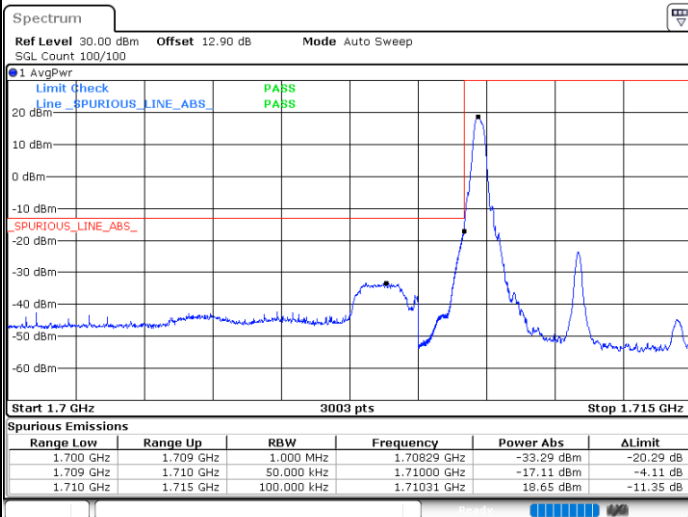




FR1 n66 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

