



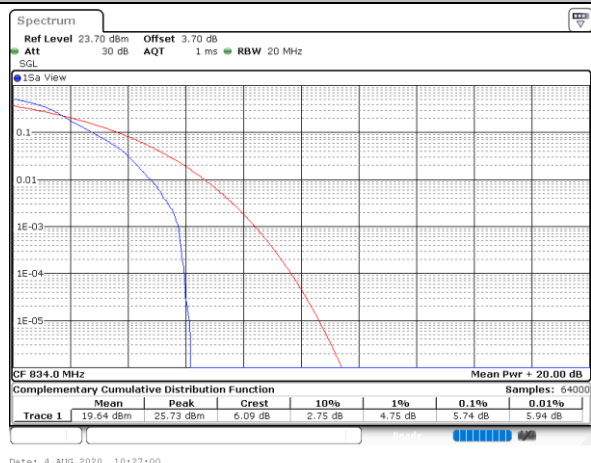
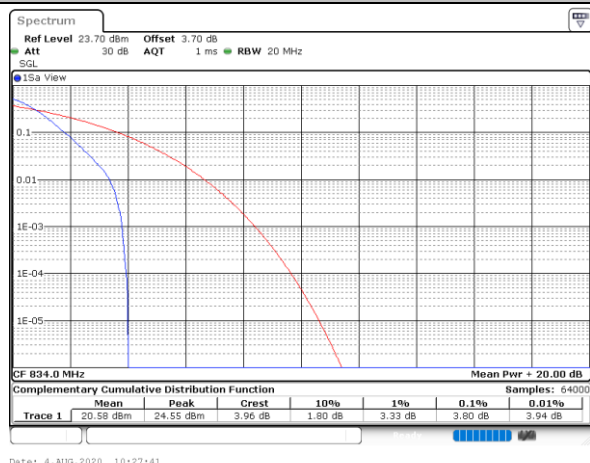
FR1 n5+66A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

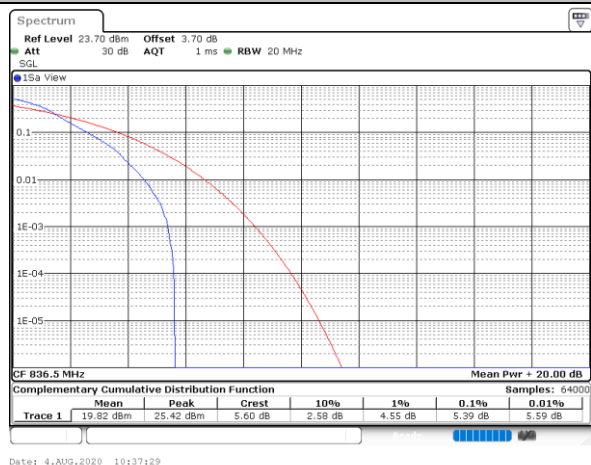
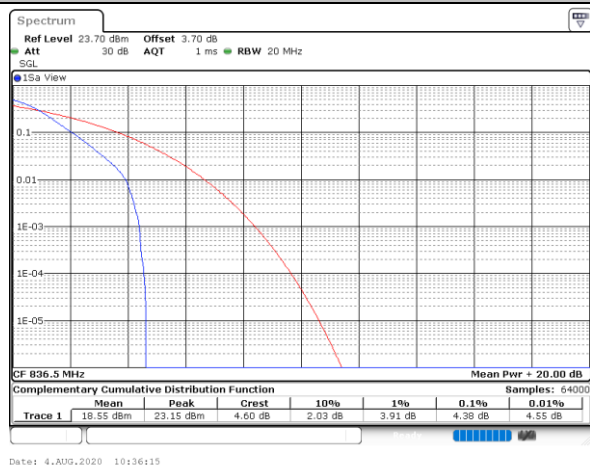
Lowest Channel / Full RB

Lowest Channel / Full RB



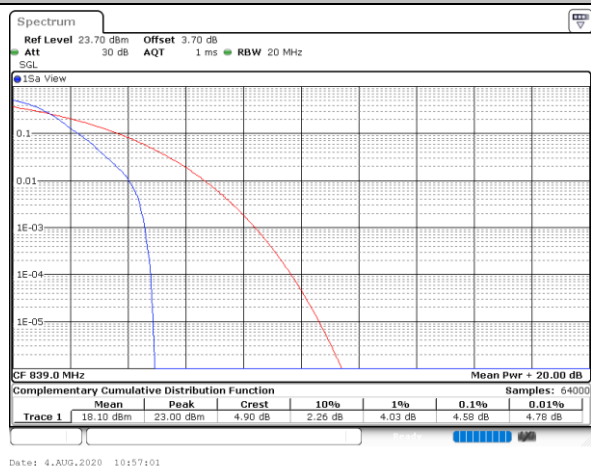
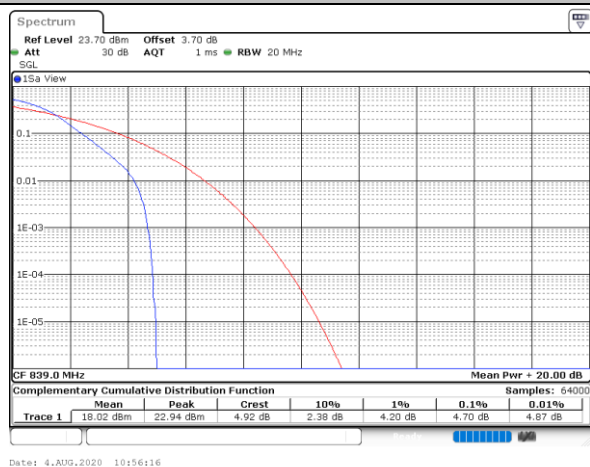
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





26dB Bandwidth

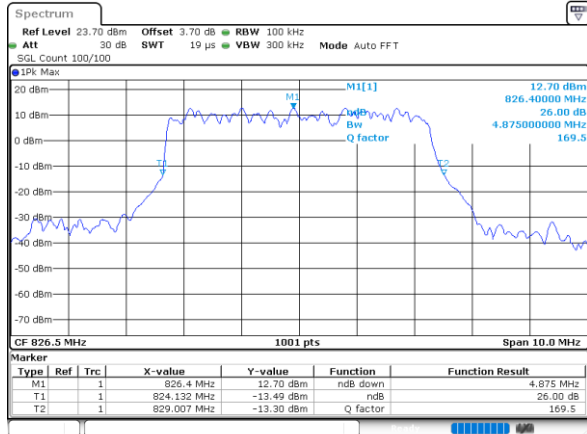
Mode	FR1 n5+66A : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.87	4.7	9.41	9.25	18.58	18.62		
Middle CH	4.9	4.71	9.21	9.23	18.82	18.62		
Highest CH	4.72	4.75	9.41	9.25	18.7	18.66		



FR1 n5+66A / 5MHz / DFT-S OFDM

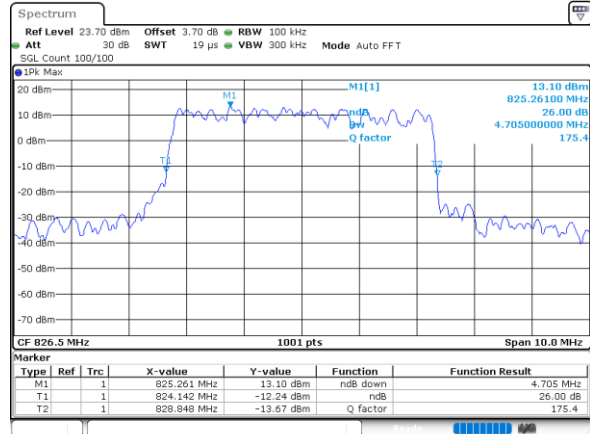
PI/2 BPSK

Lowest Channel

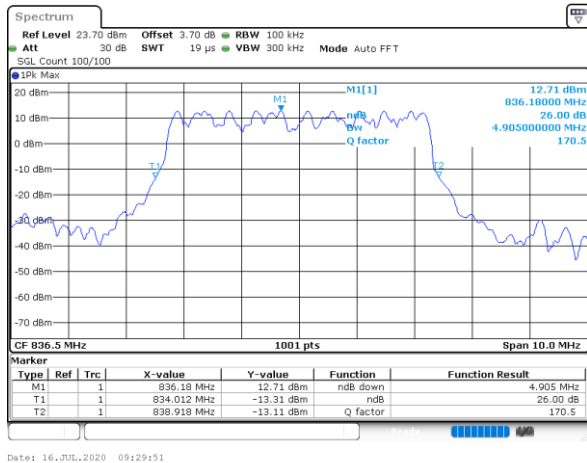


QPSK

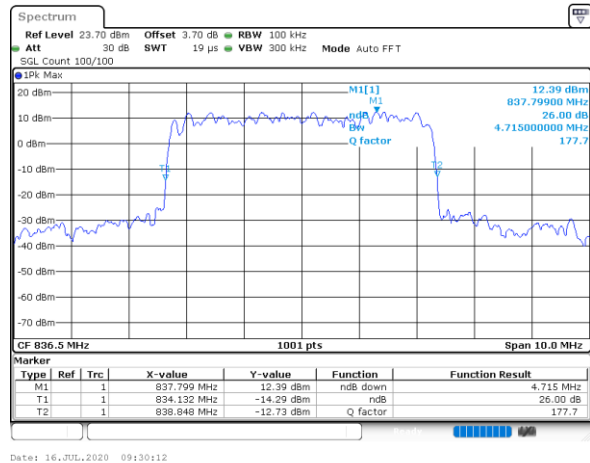
Lowest Channel



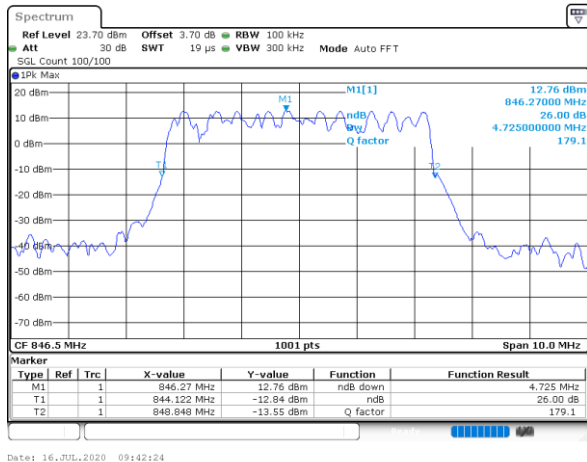
Middle Channel



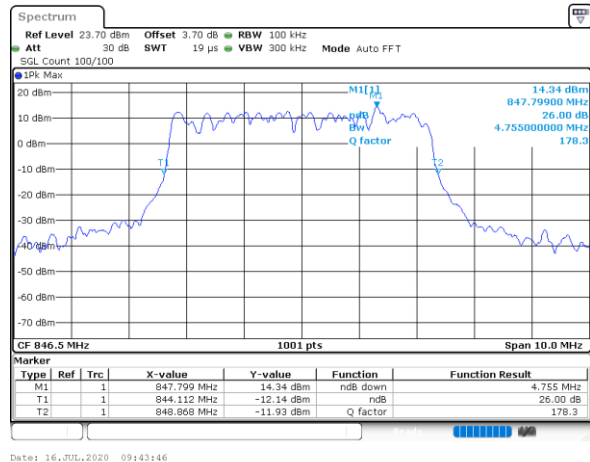
Middle Channel



Highest Channel



Highest Channel

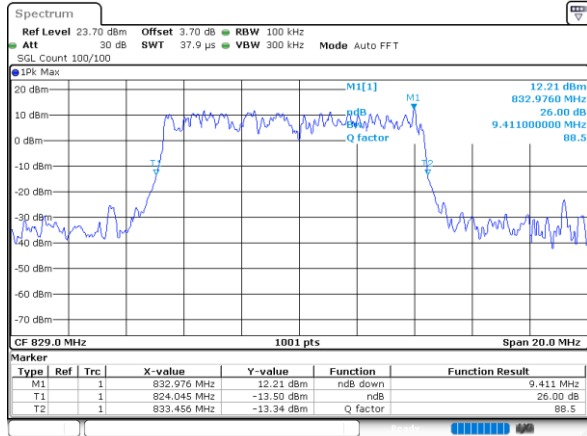




FR1 n5+66A / 10MHz / DFT-S OFDM

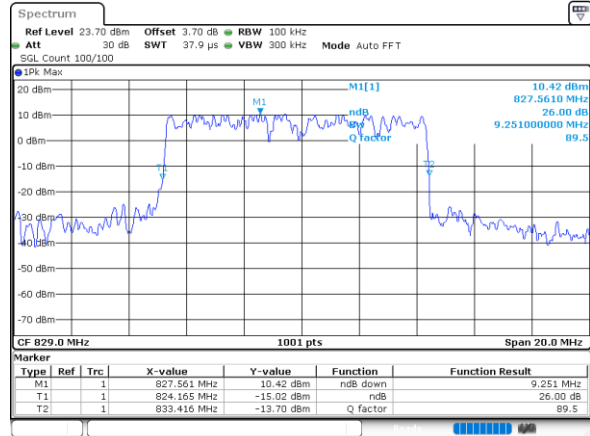
PI/2 BPSK

Lowest Channel

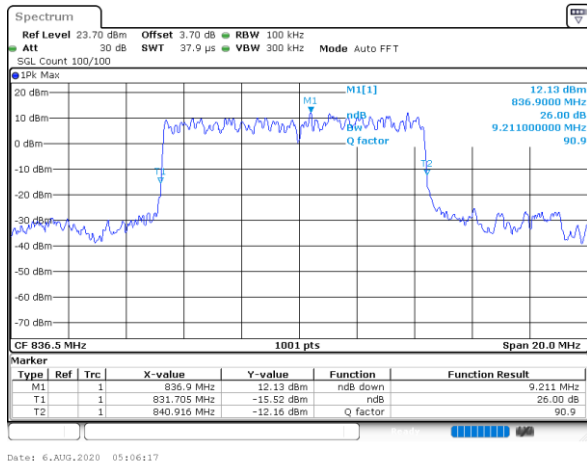


QPSK

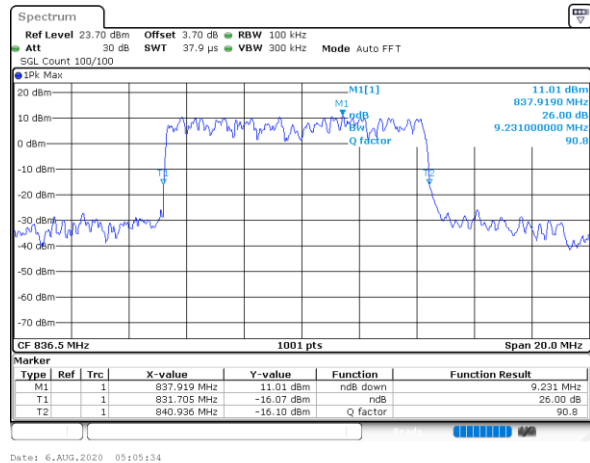
Lowest Channel



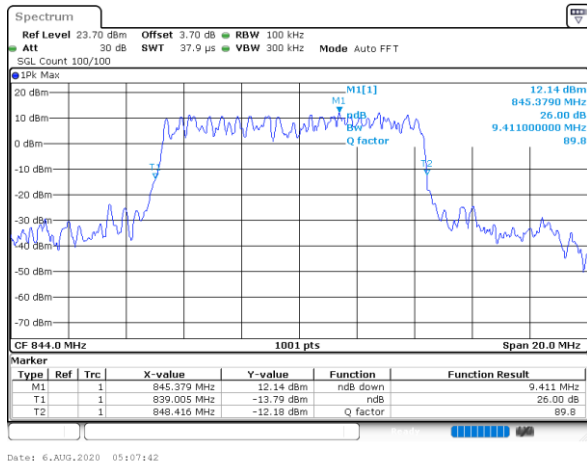
Middle Channel



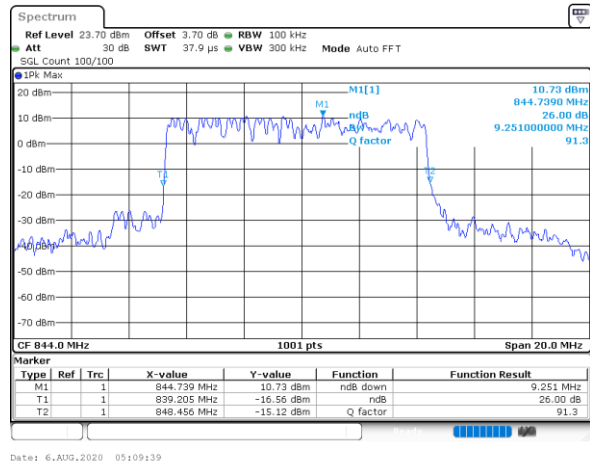
Middle Channel



Highest Channel



Highest Channel

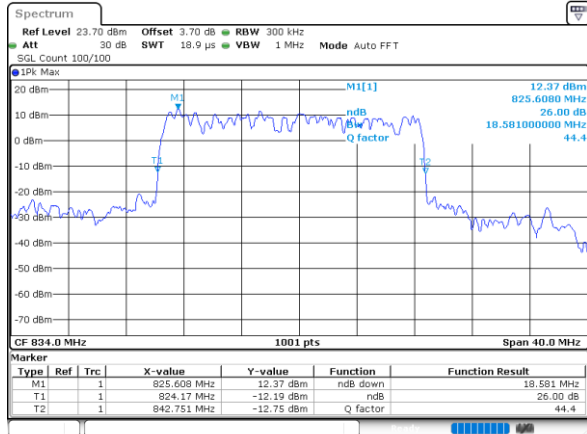




FR1 n5+66A / 20MHz / DFT-S OFDM

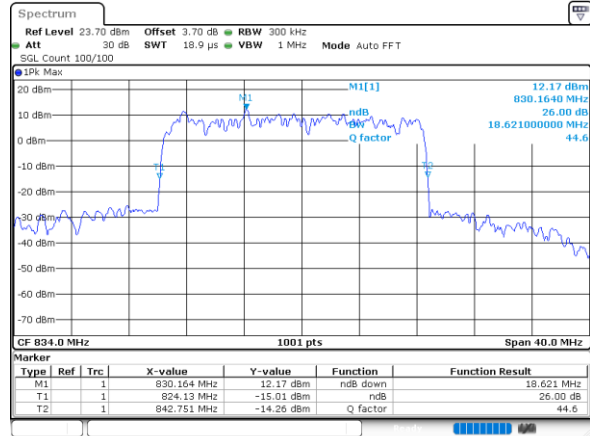
PI/2 BPSK

Lowest Channel

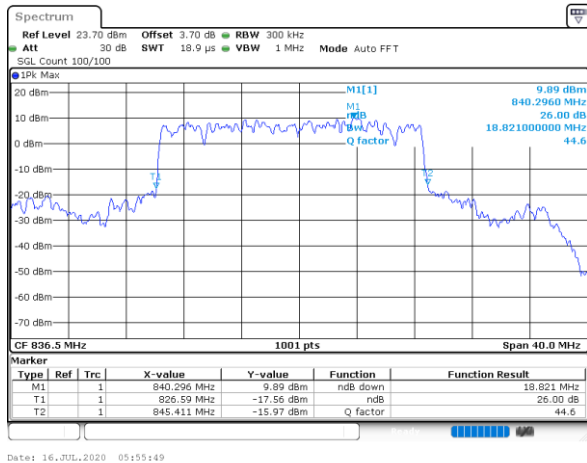


QPSK

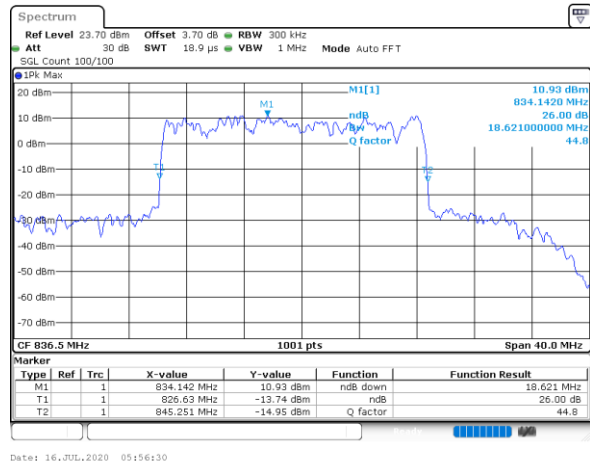
Lowest Channel



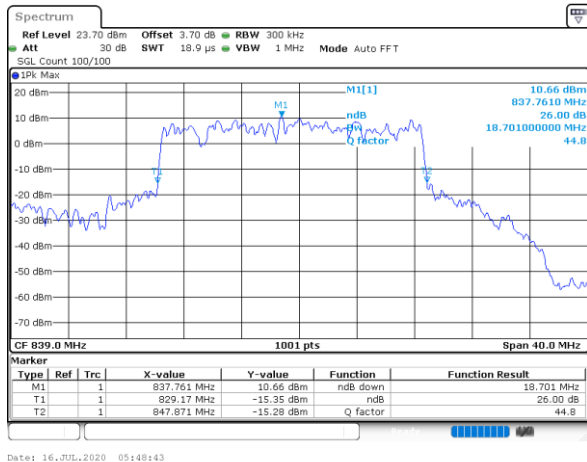
Middle Channel



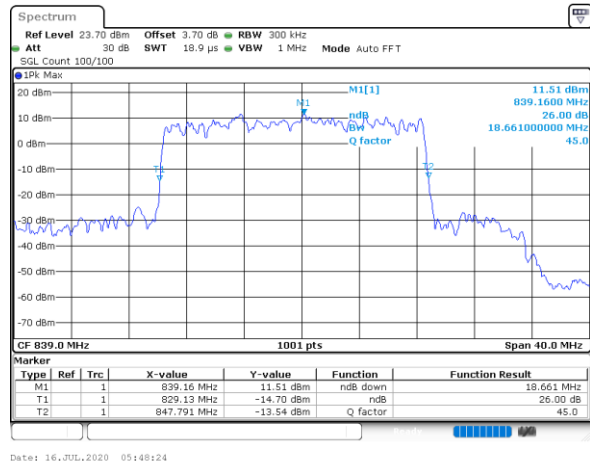
Middle Channel



Highest Channel



Highest Channel



**Occupied Bandwidth**

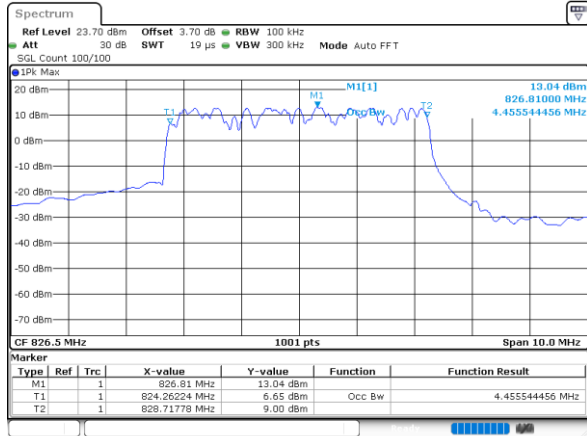
Mode	FR1 n5+66A : OB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.45	4.47	8.93	8.91	18.58	18.62		
Middle CH	4.44	4.46	8.93	8.93	18.82	18.62		
Highest CH	4.53	4.47	8.93	8.91	18.7	18.66		



FR1 n5+66A / 5MHz / DFT-S OFDM

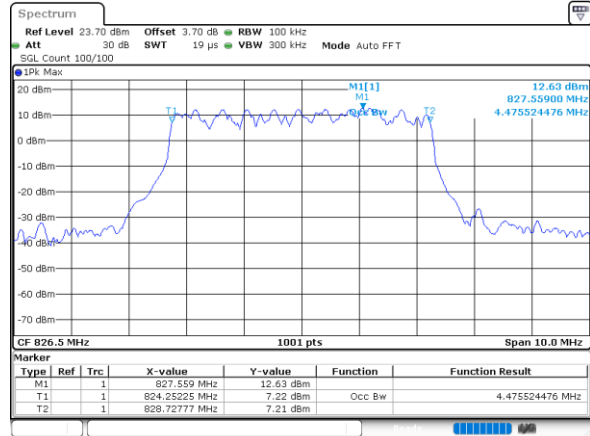
PI/2 BPSK

Lowest Channel

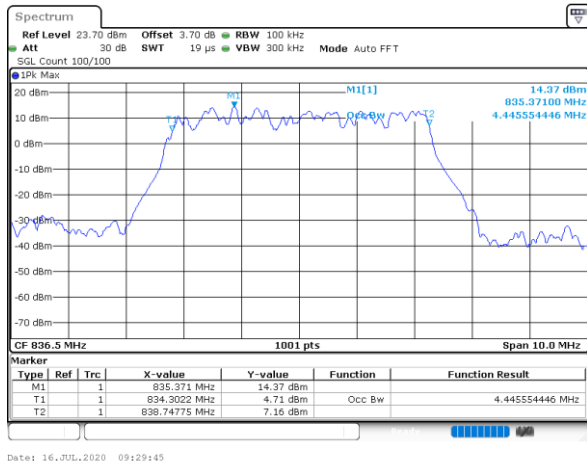


QPSK

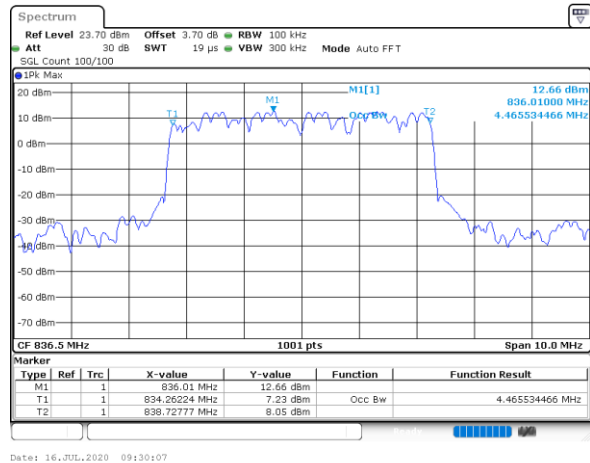
Lowest Channel



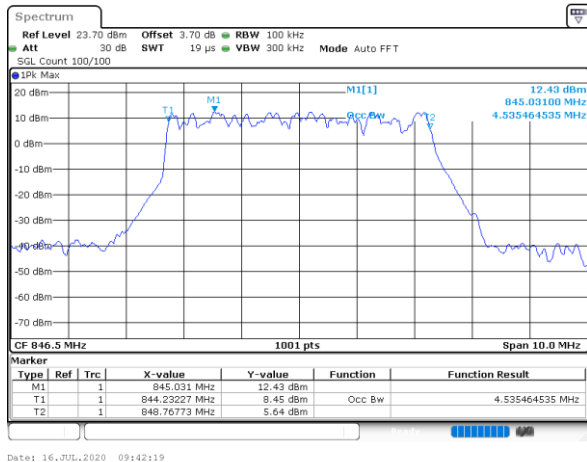
Middle Channel



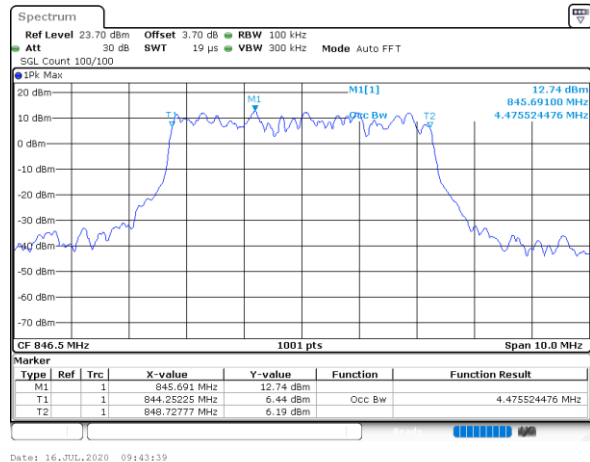
Middle Channel



Highest Channel



Highest Channel





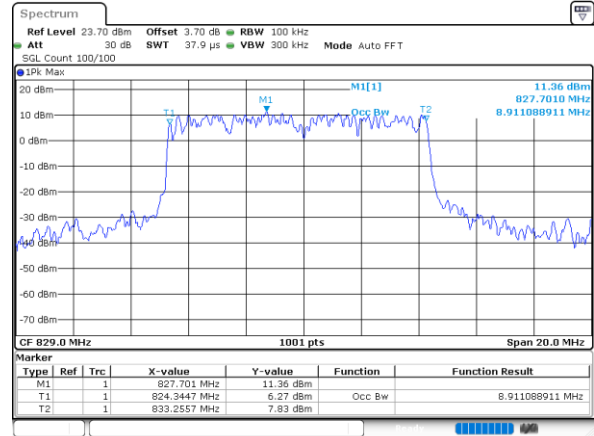
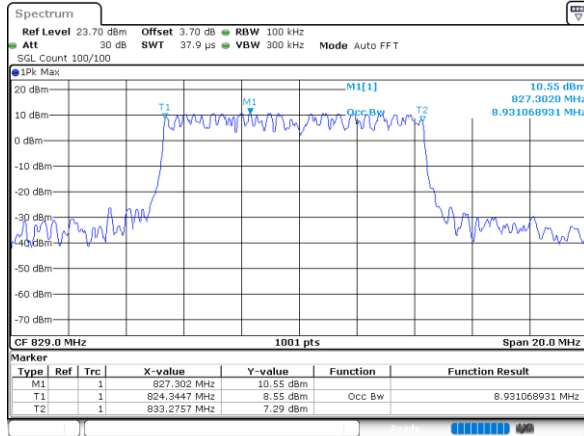
FR1 n5+66A / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

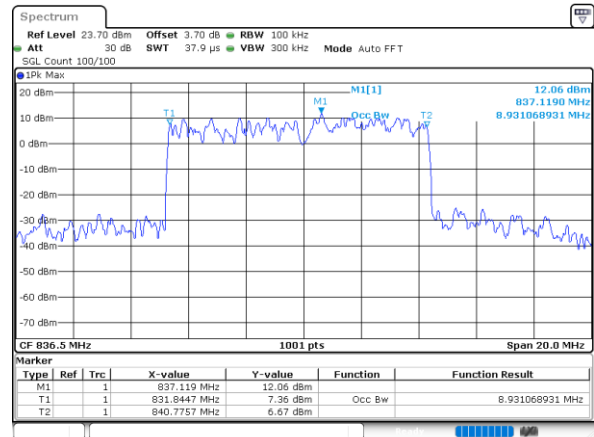
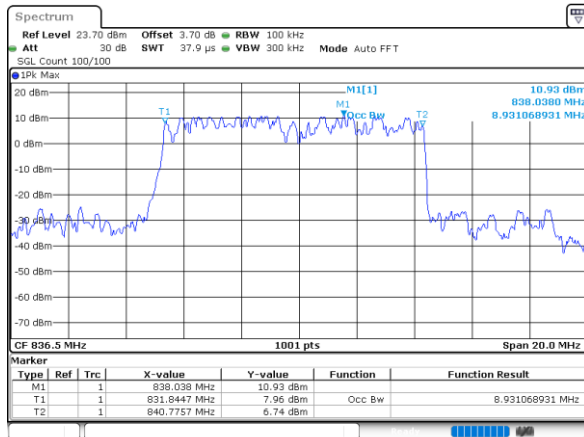
Lowest Channel

Lowest Channel



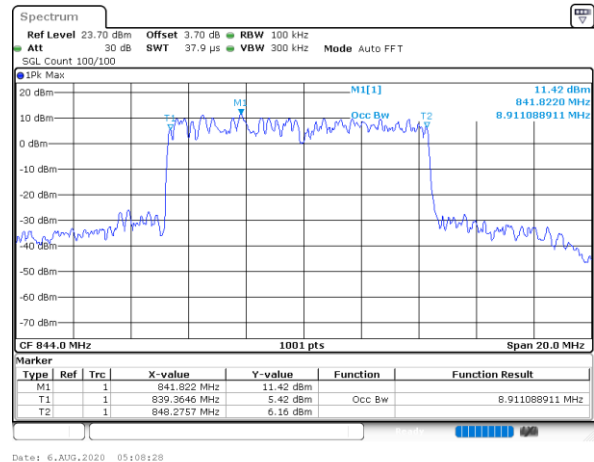
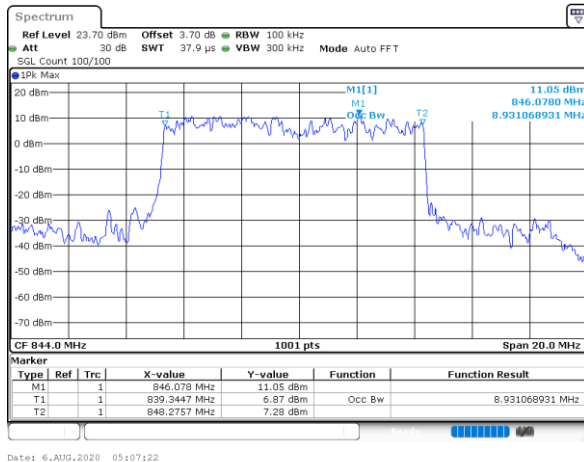
Middle Channel

Middle Channel



Highest Channel

Highest Channel





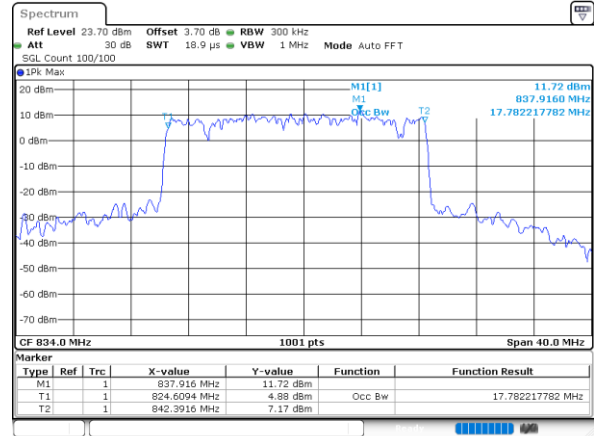
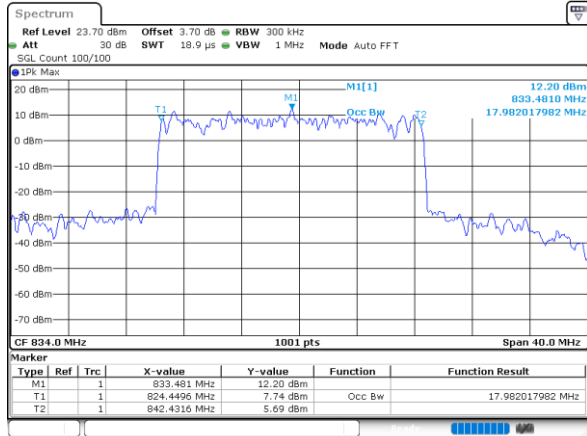
FR1 n5+66A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

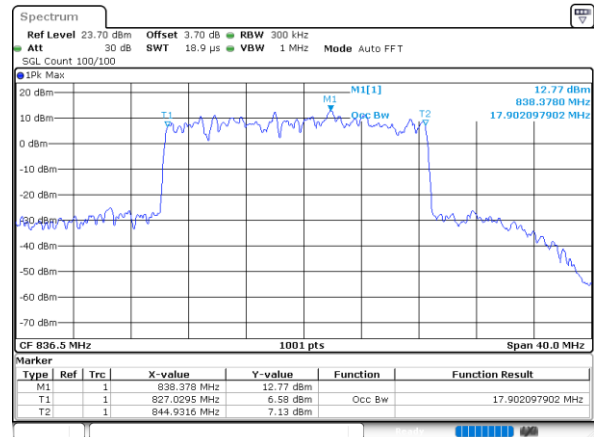
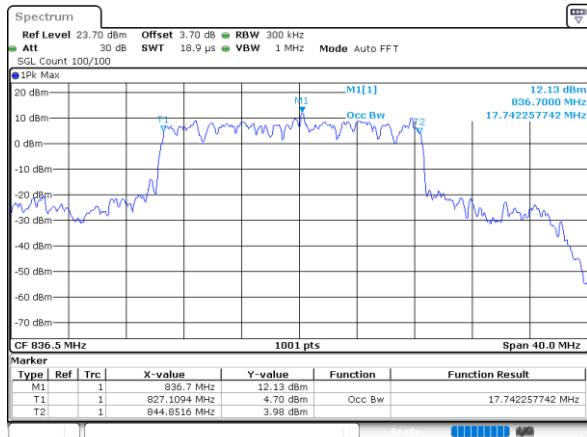
Lowest Channel

Lowest Channel



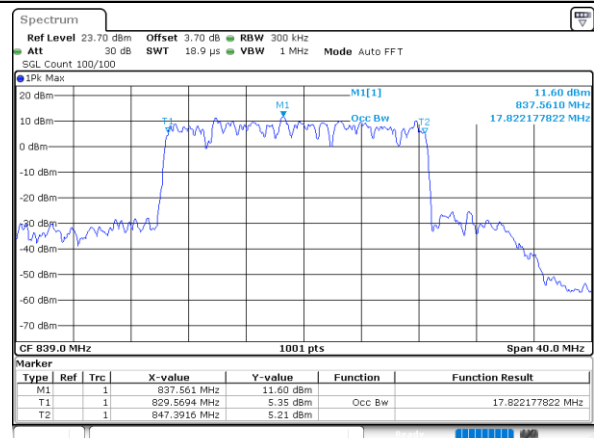
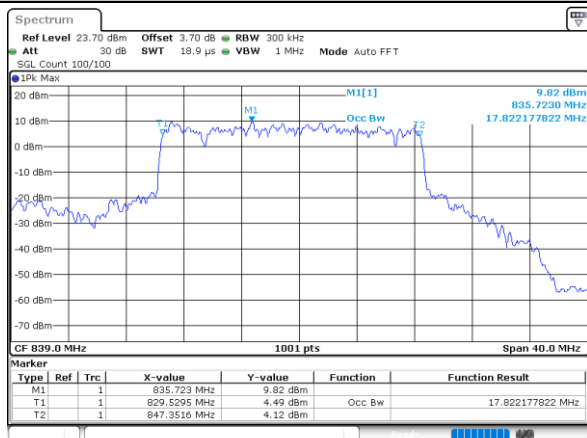
Middle Channel

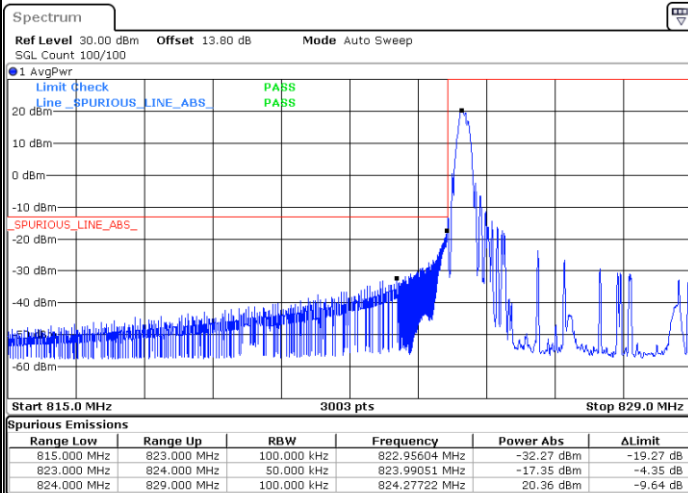
Middle Channel



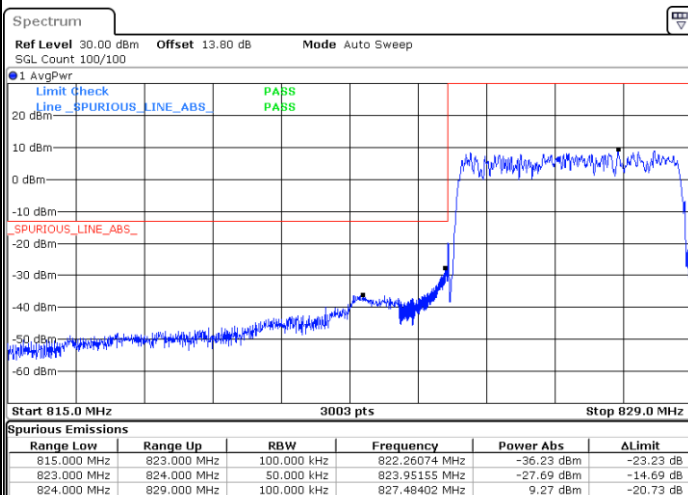
Highest Channel

Highest Channel



**Conducted Band Edge****FR1 n5+66A / 5MHz / DFT-S OFDM BPSK****Lowest Band Edge / 1 RB****Channel Power < -13dBm Pass**

Date: 16.JUL.2020 08:37:19

Lowest Band Edge / Full RB**Channel Power < -13dBm Pass**

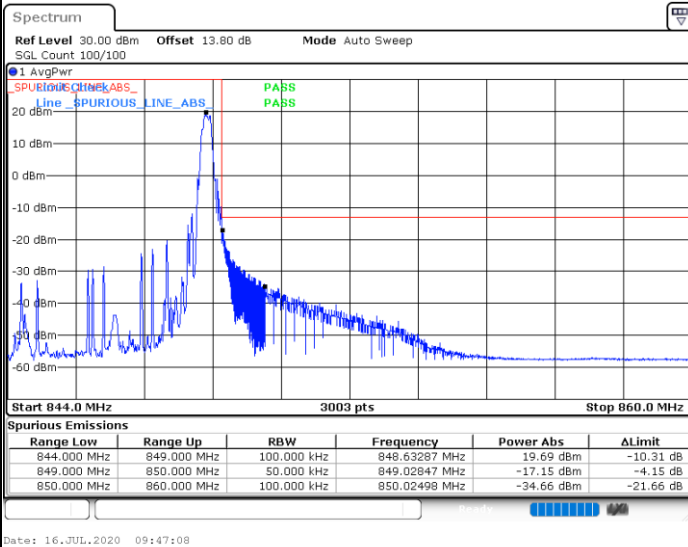
Date: 16.JUL.2020 08:36:11



FR1 n5+66A / 5MHz / DFT-S OFDM BPSK

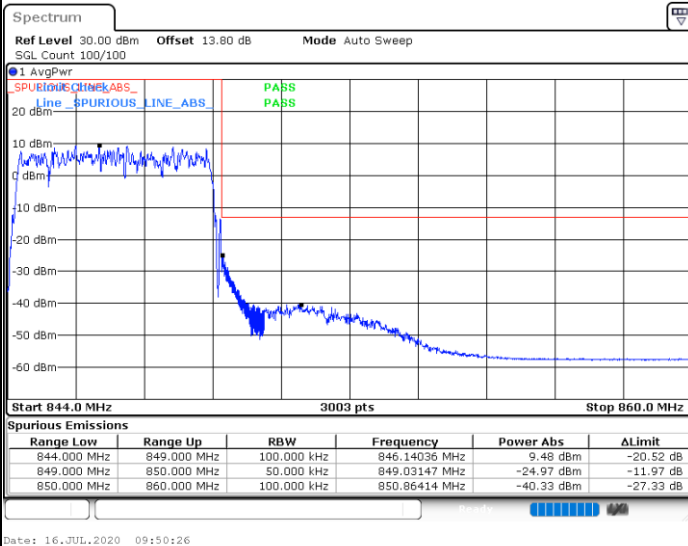
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

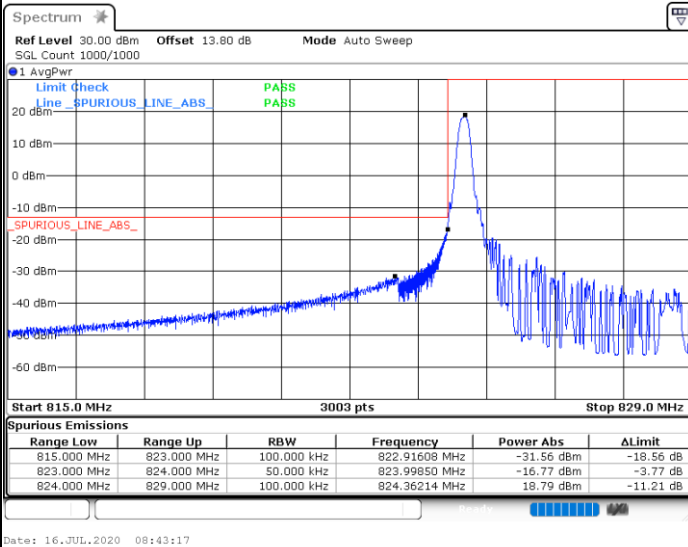




FR1 n5+66A / 5MHz / DFT-S OFDM QPSK

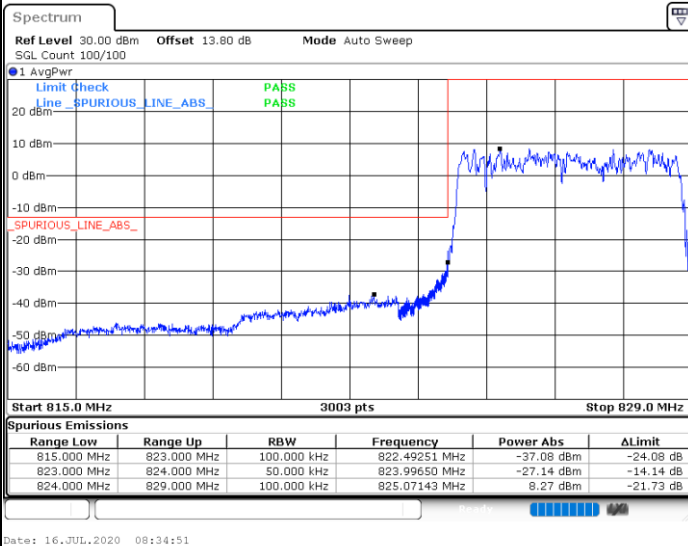
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

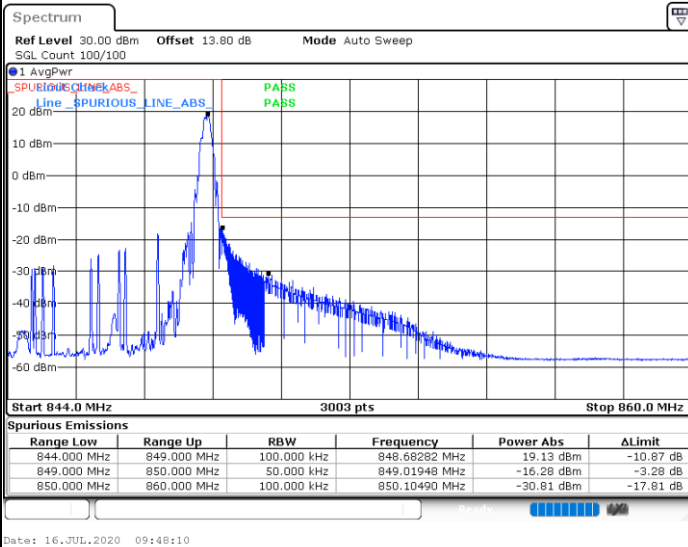




FR1 n5+66A / 5MHz / DFT-S OFDM QPSK

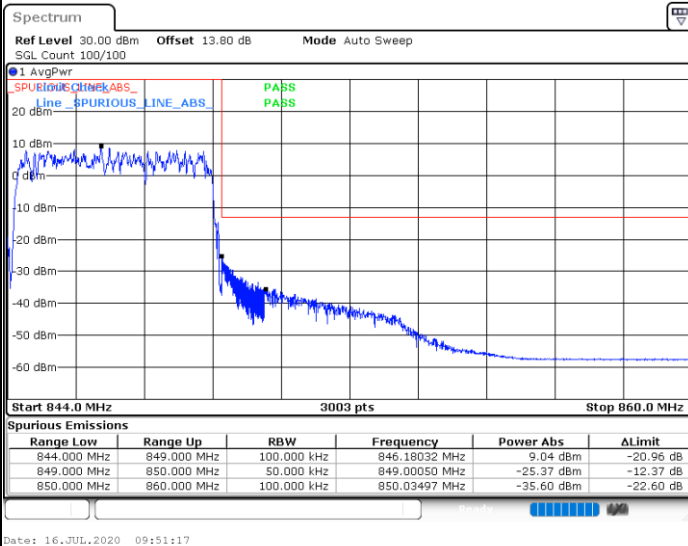
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

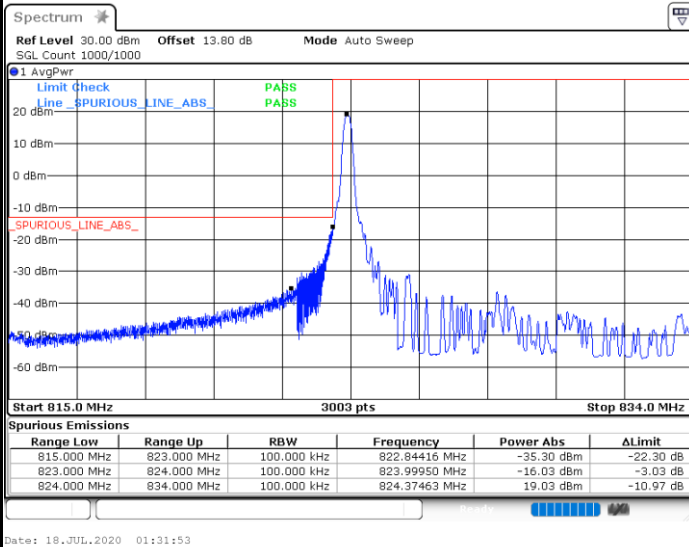




FR1 n5+66A / 10MHz / DFT-S OFDM BPSK

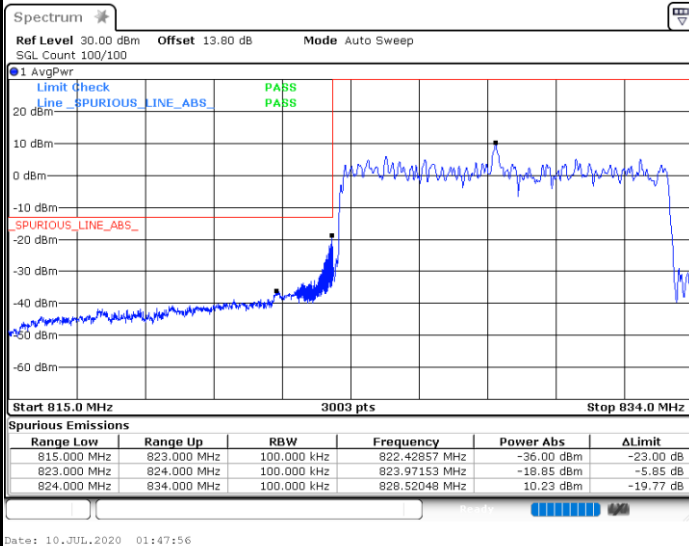
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

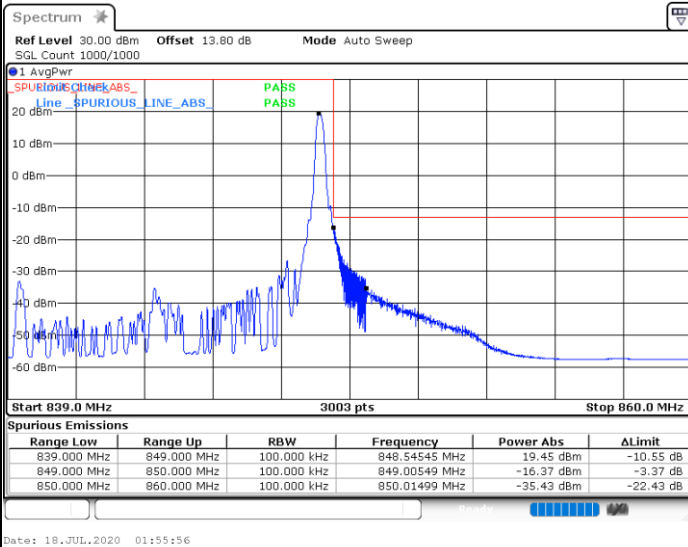




FR1 n5+66A / 10MHz / DFT-S OFDM BPSK

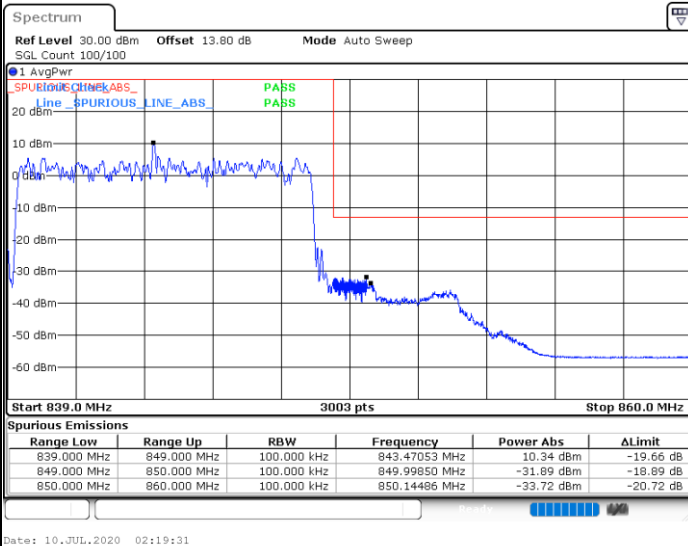
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

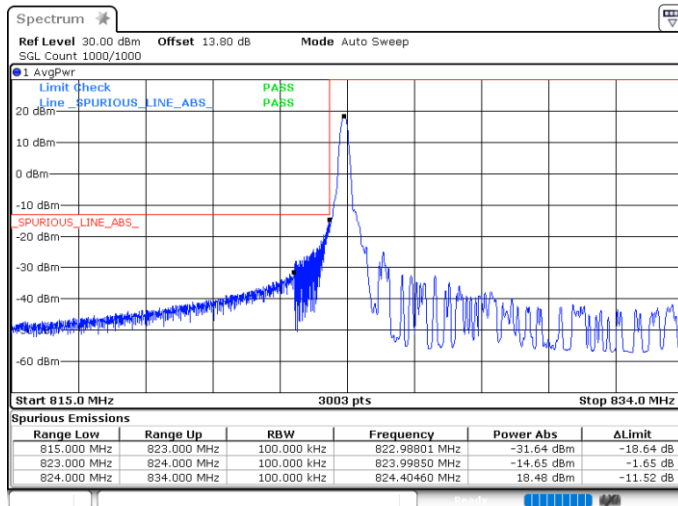
Channel Power < -13dBm Pass



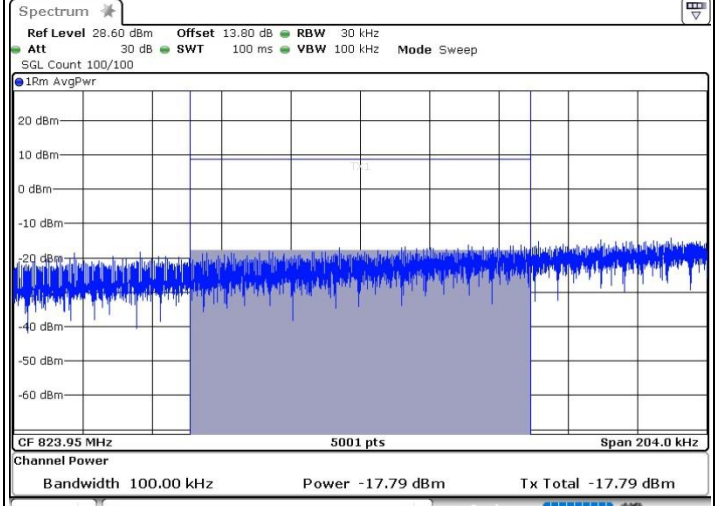


FR1 n5+66A / 10MHz / DFT-S OFDM QPSK

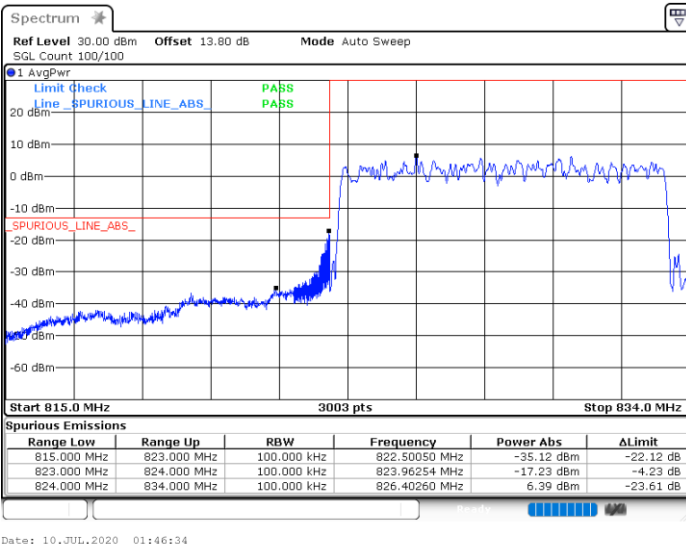
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



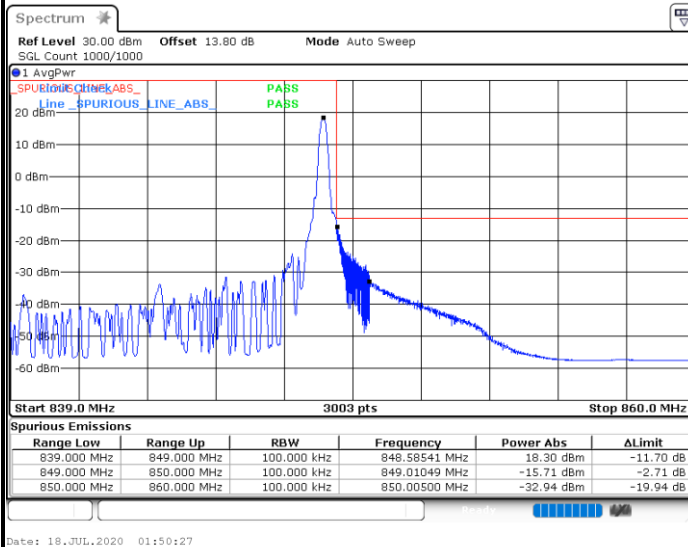
Channel Power < -13dBm Pass

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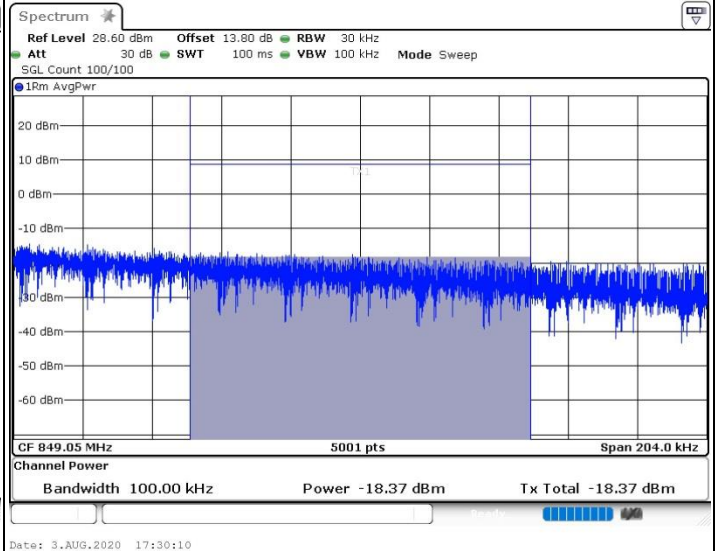


FR1 n5+66A / 10MHz / DFT-S OFDM QPSK

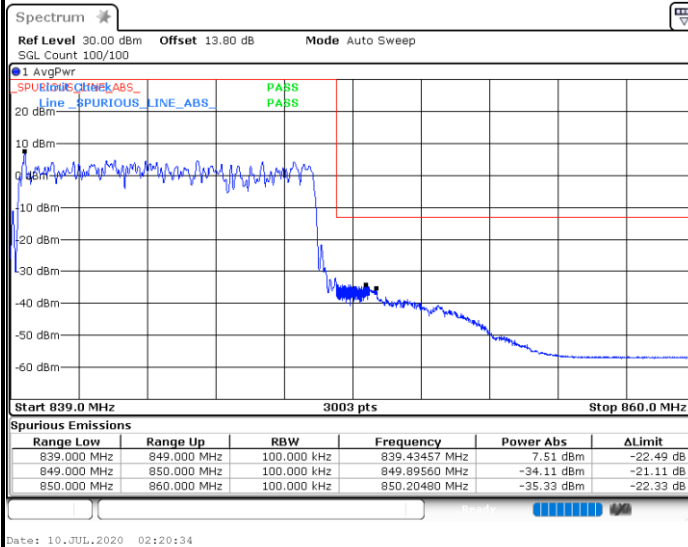
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



Channel Power < -13dBm Pass

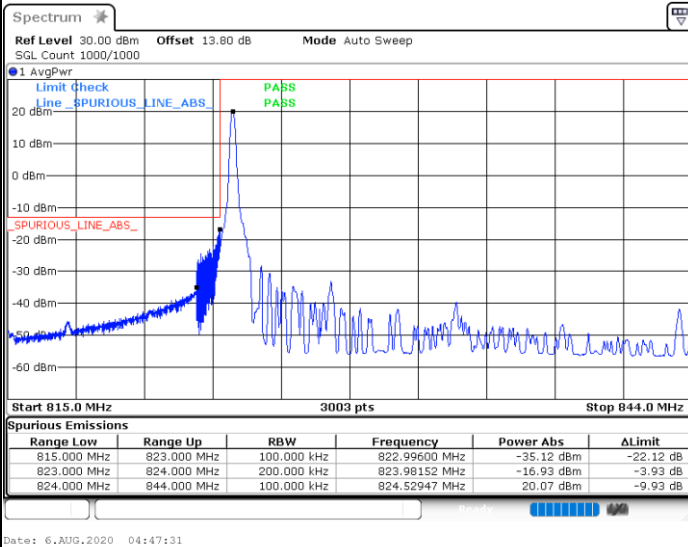
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FR1 n5+66A / 20MHz / DFT-S OFDM BPSK

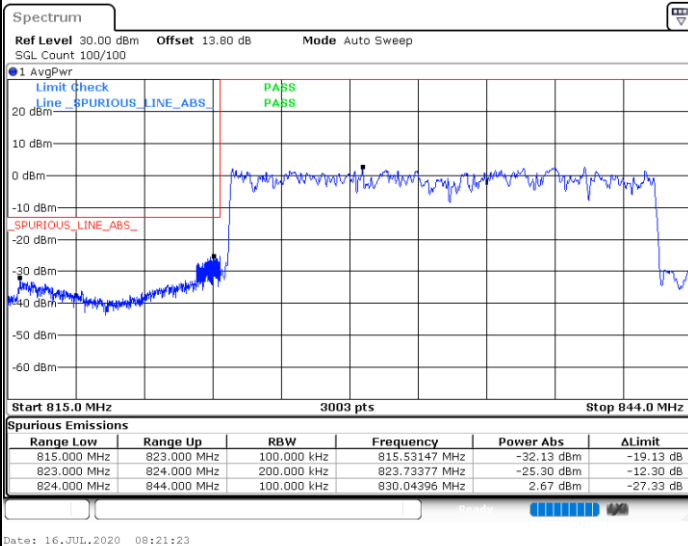
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

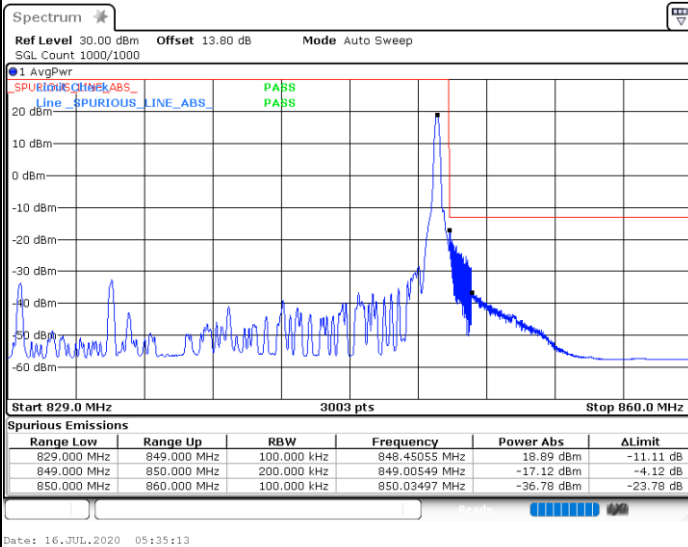




FR1 n5+66A / 20MHz / DFT-S OFDM BPSK

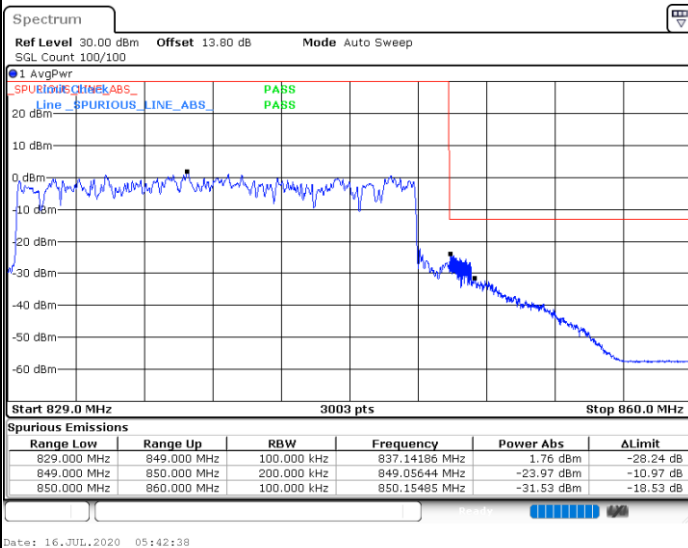
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

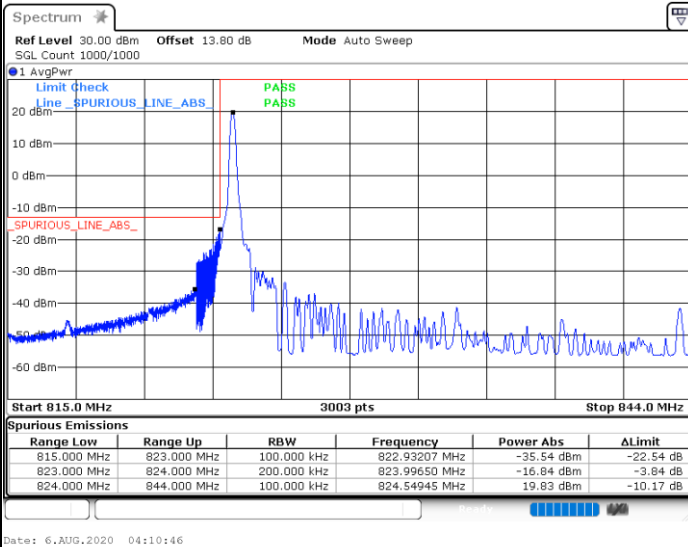




FR1 n5+66A / 20MHz / DFT-S OFDM QPSK

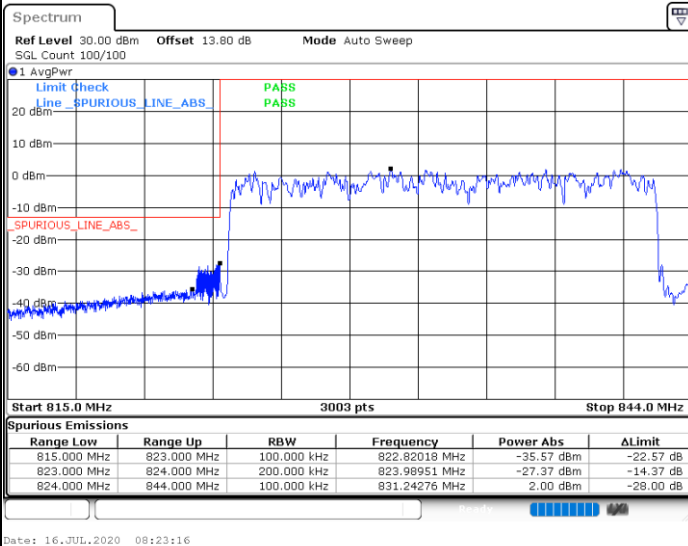
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

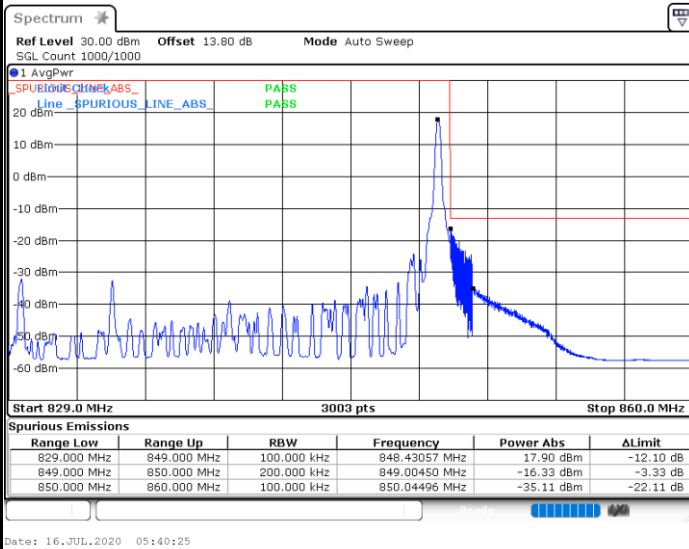




FR1 n5+66A / 20MHz / DFT-S OFDM QPSK

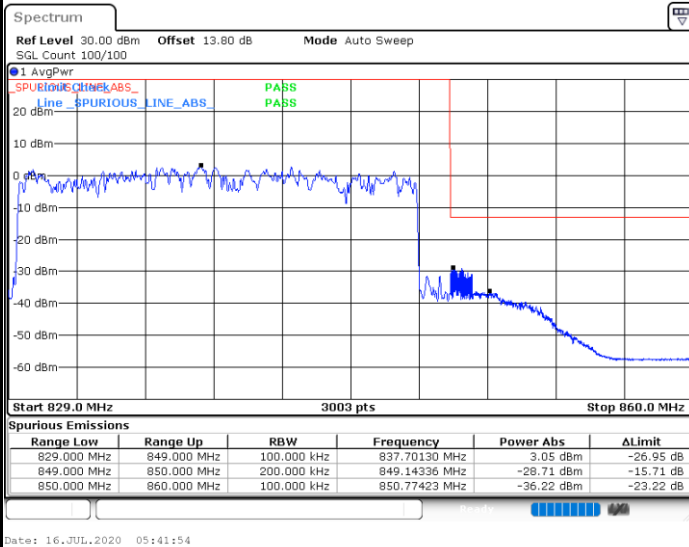
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

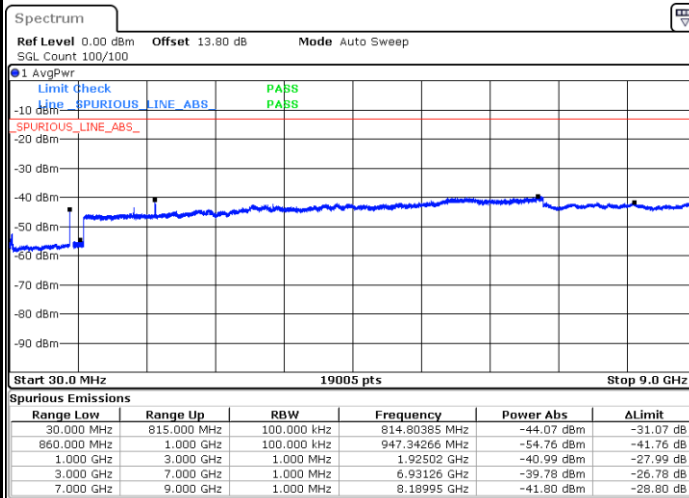




Conducted Spurious Emission

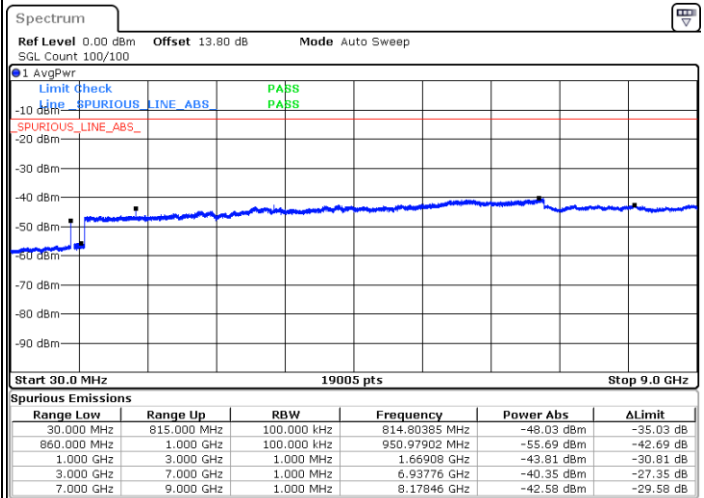
FR1 n5+66A / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



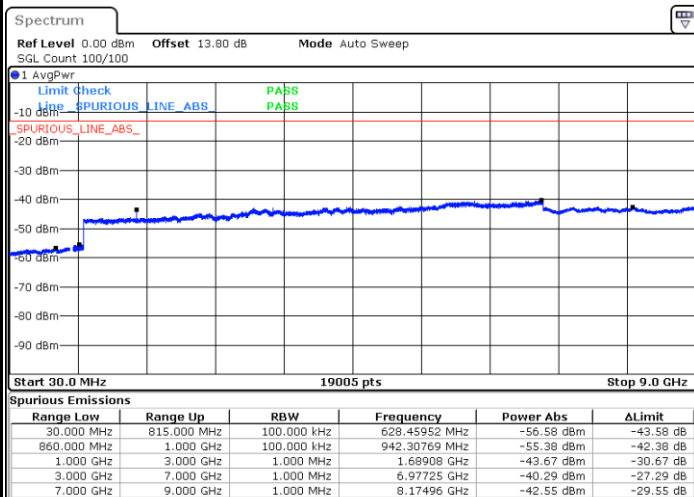
Date: 10.JUL.2020 04:12:31

Middle Channel / 1RB



Date: 16.JUL.2020 09:35:32

Highest Channel / 1RB

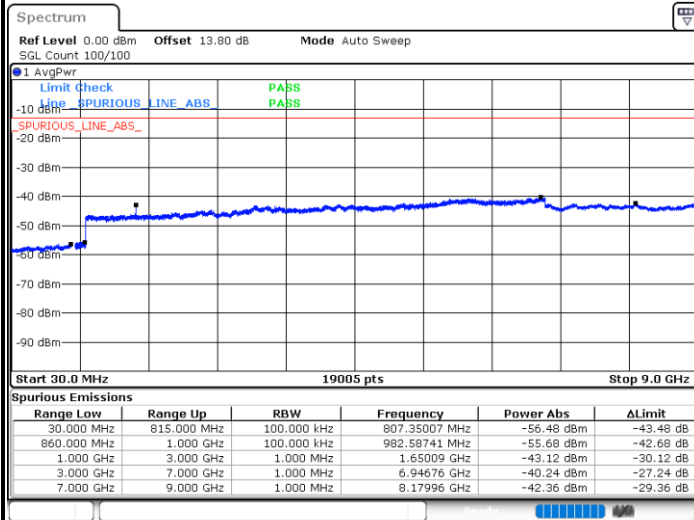


Date: 16.JUL.2020 10:01:16

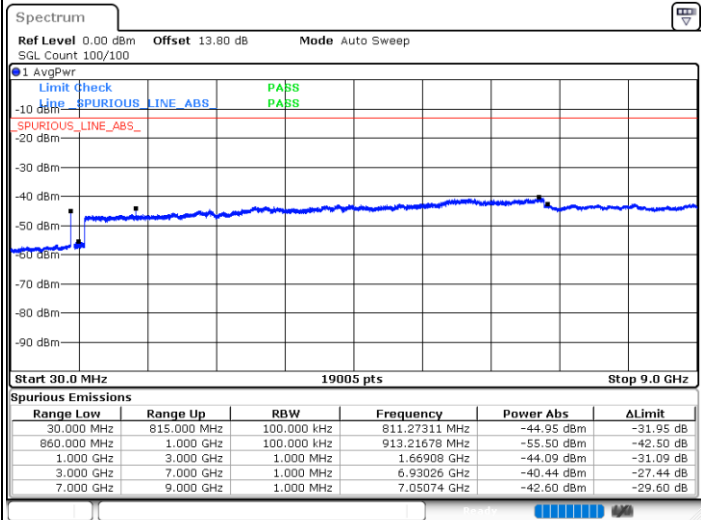


FR1 n5+66A / 5MHz / DFT-S OFDM / QPSK

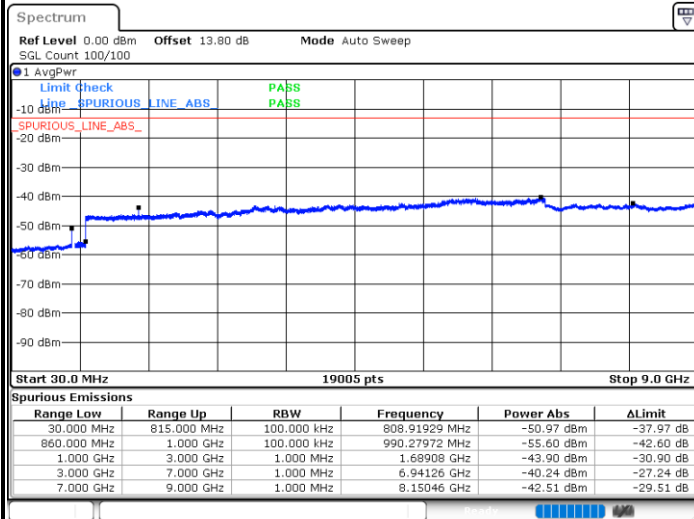
Lowest Channel / 1RB



Middle Channel / 1RB



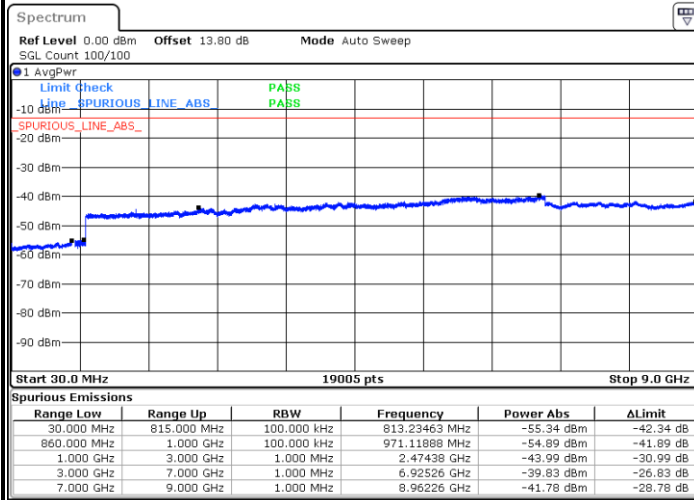
Highest Channel / 1RB



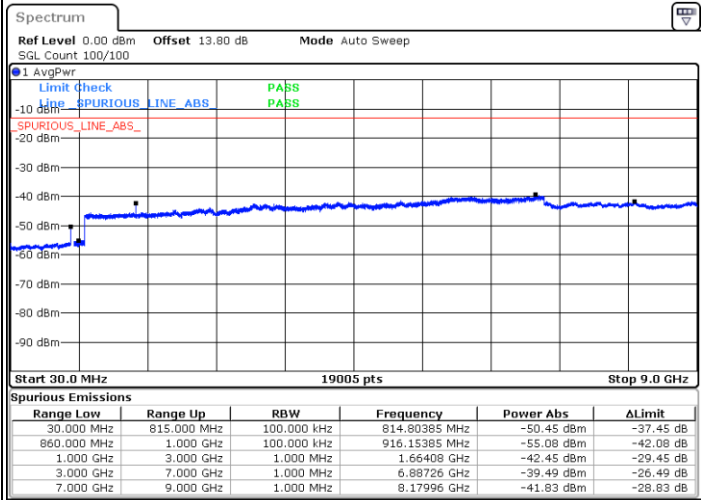


FR1 n5+66A / 10MHz / DFT-S OFDM / BPSK

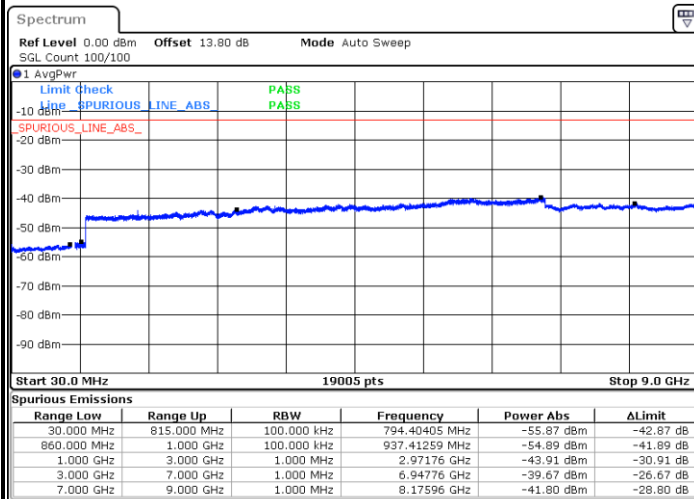
Lowest Channel / 1RB



Middle Channel / 1RB



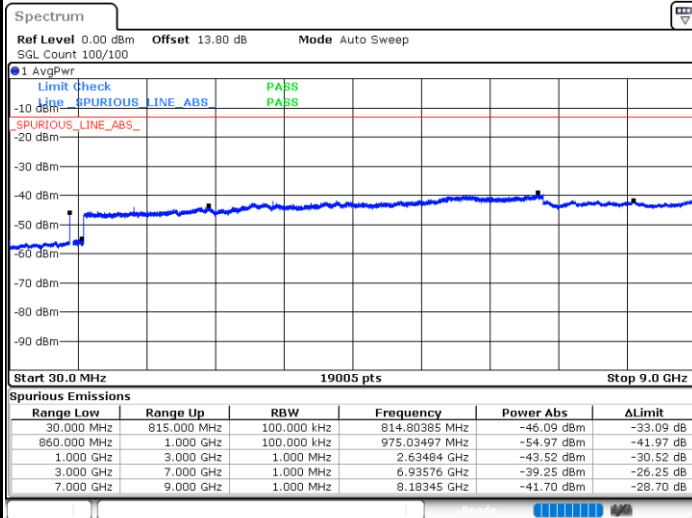
Highest Channel / 1RB



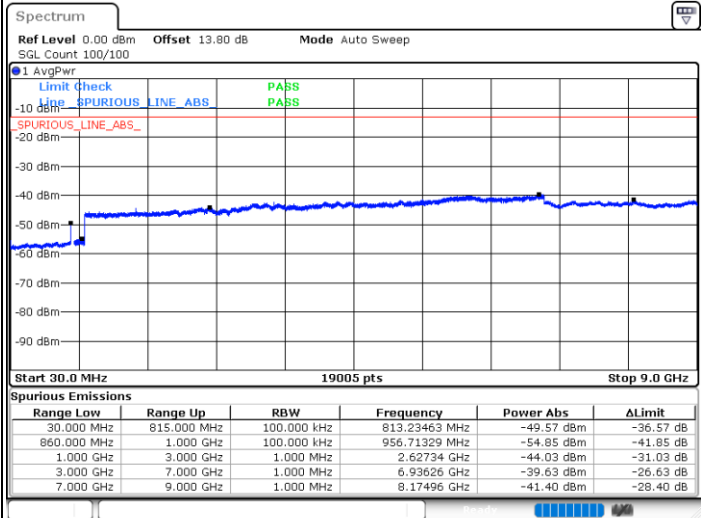


FR1 n5+66A / 10MHz / DFT-S OFDM / QPSK

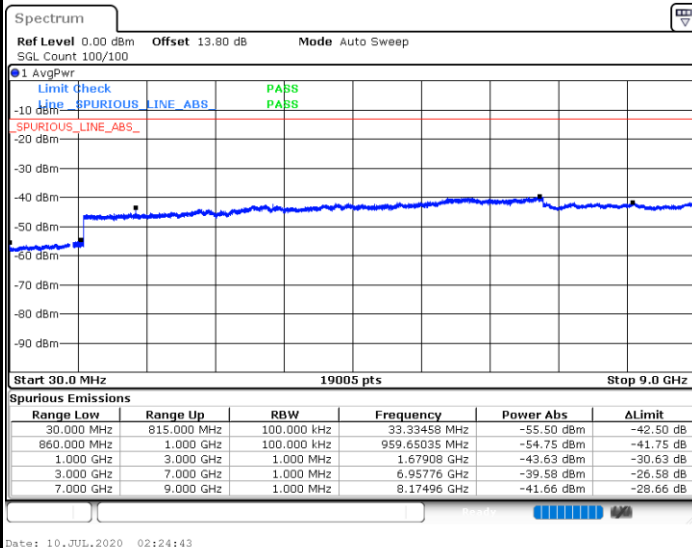
Lowest Channel / 1RB



Middle Channel / 1RB



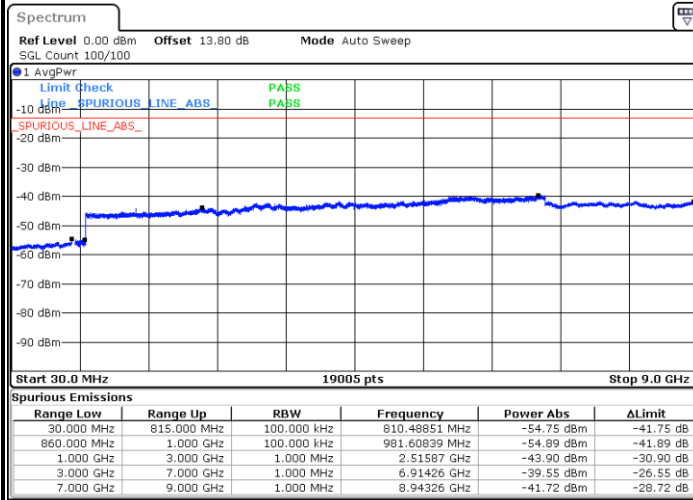
Highest Channel / 1RB





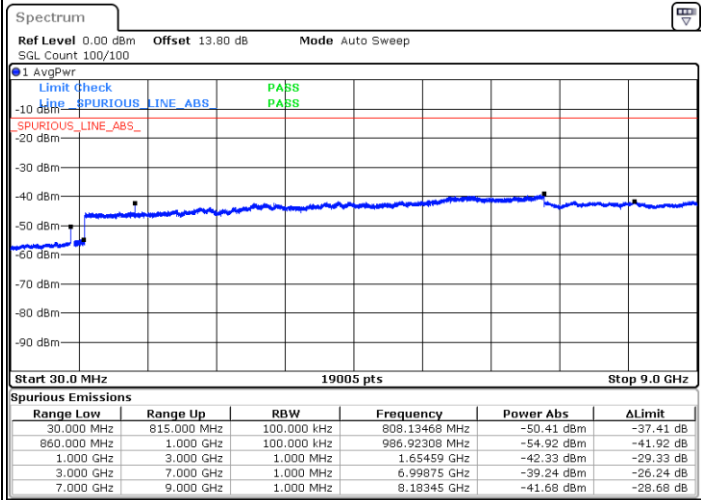
FR1 n5+66A / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



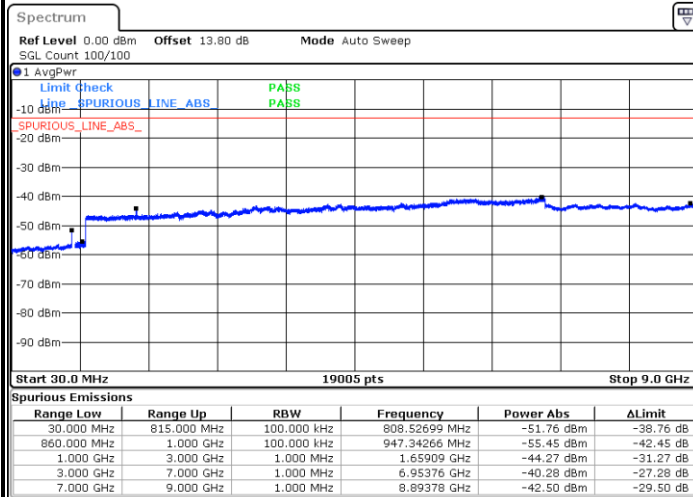
Date: 13.JUL.2020 04:00:20

Middle Channel / 1RB



Date: 14.JUL.2020 03:38:18

Highest Channel / 1RB

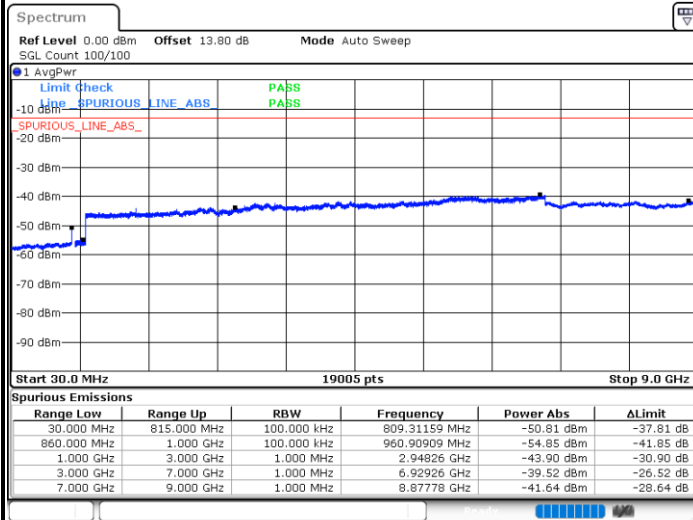


Date: 16.JUL.2020 05:45:45

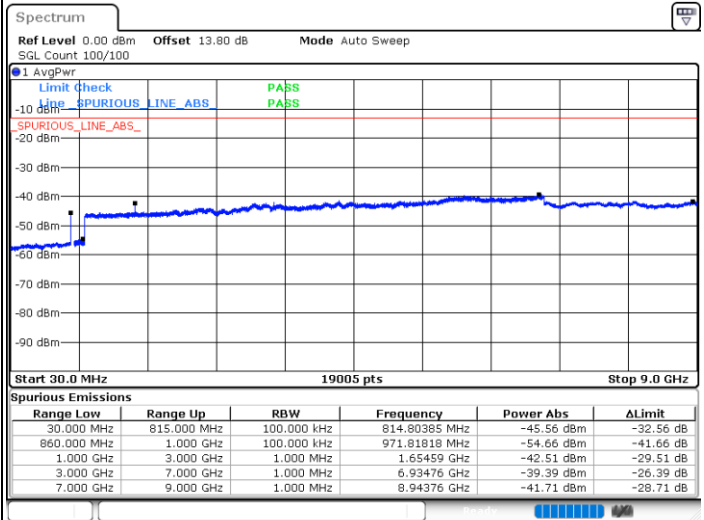


FR1 n5+66A / 20MHz / DFT-S OFDM / QPSK

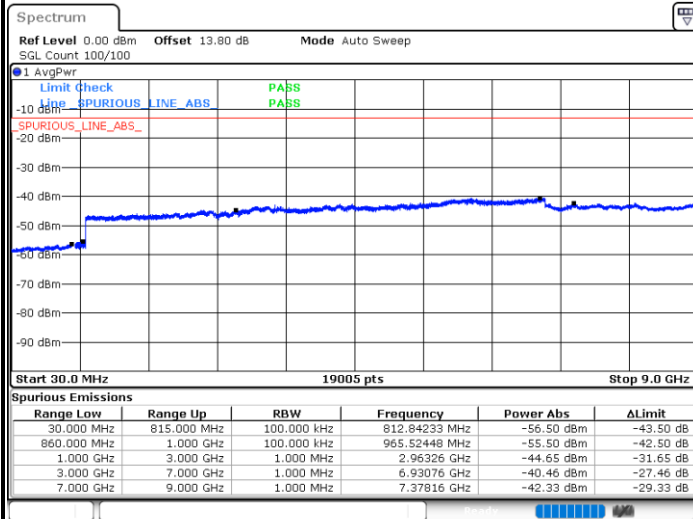
Lowest Channel / 1RB



Middle Channel / 1RB



Highest Channel / 1RB



**Frequency Stability**

Test Conditions		NR n5+66A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0019	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0015	



5G NR n25

NSA

Peak-to-Average Ratio

Mode	FR1 n25+12A / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	5.16	5.22	5.54	PASS
Middle CH	4.2	3.88	5.42	6.26	
Highest CH	4.75	4.46	5.59	5.1	



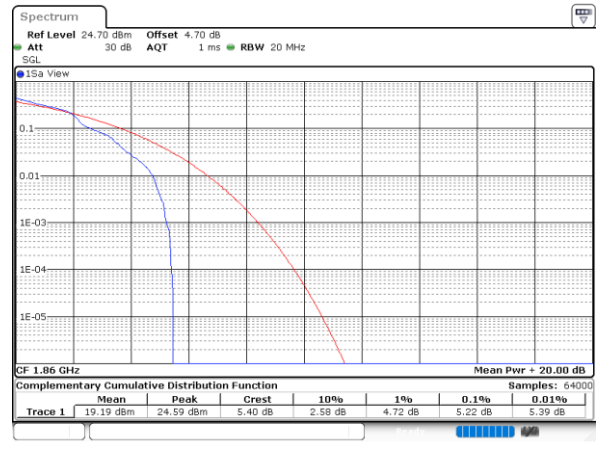
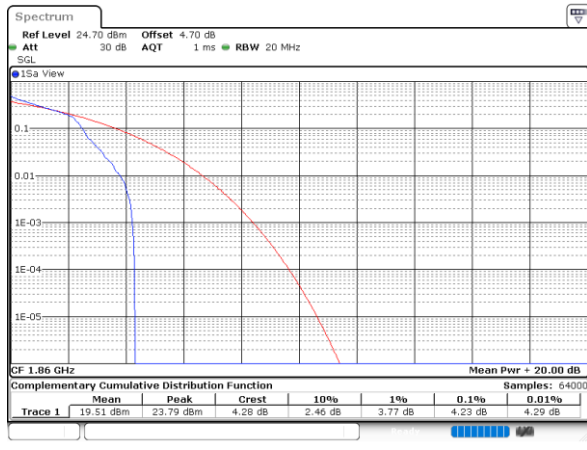
FR1 n25+12A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

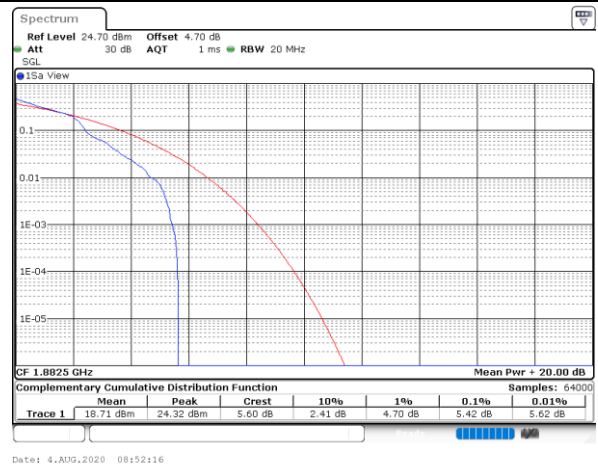
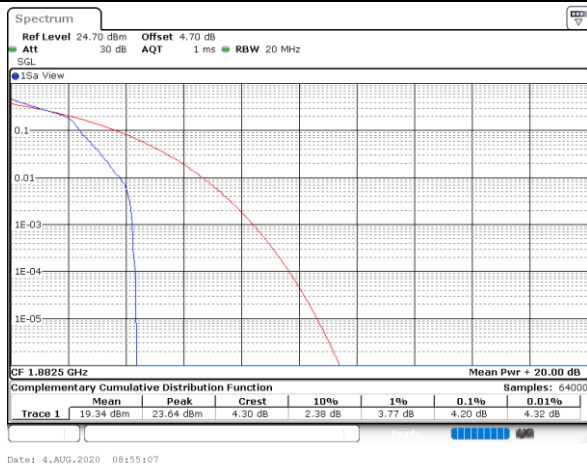
Lowest Channel / 1RB

Lowest Channel / 1RB



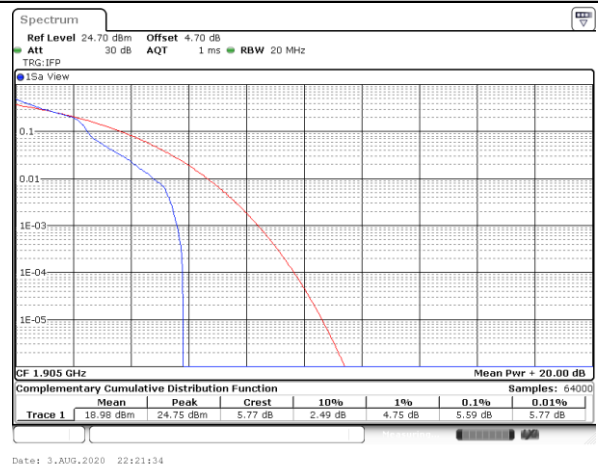
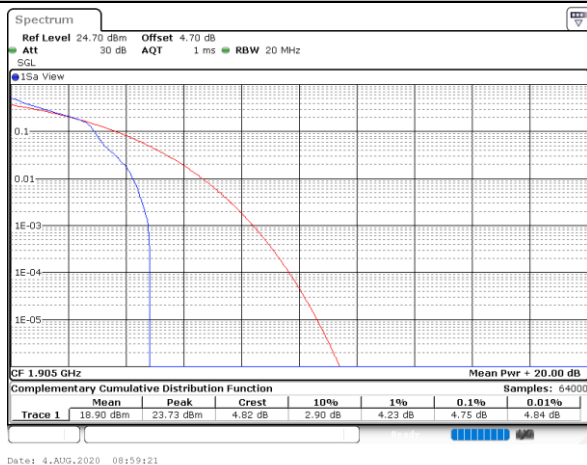
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





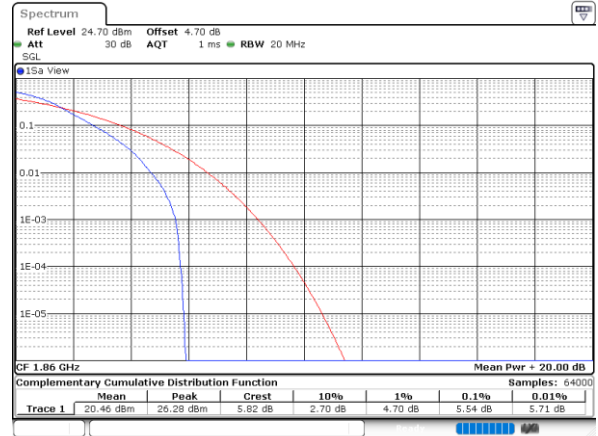
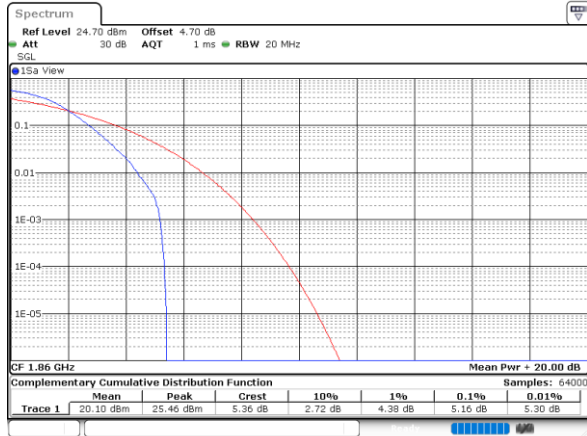
FR1 n25+12A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

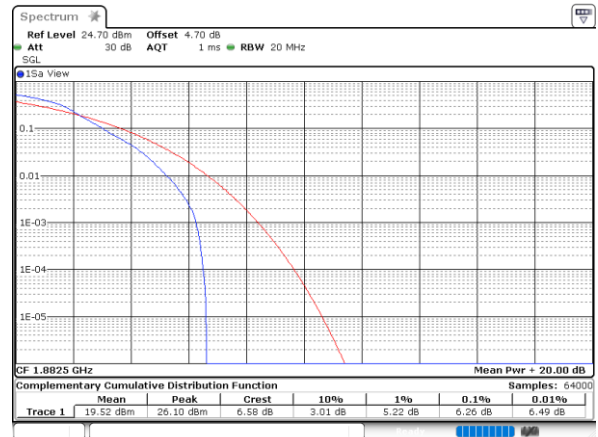
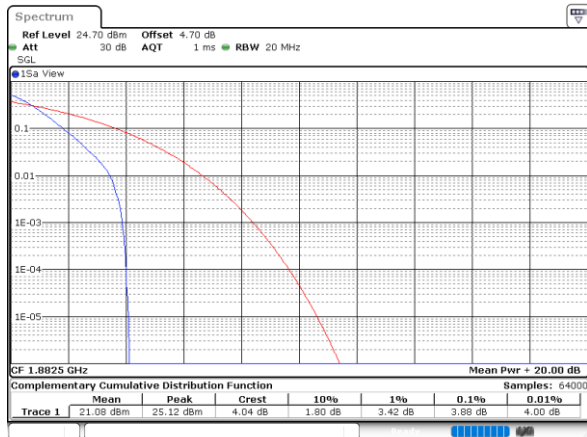
Lowest Channel / Full RB

Lowest Channel / Full RB



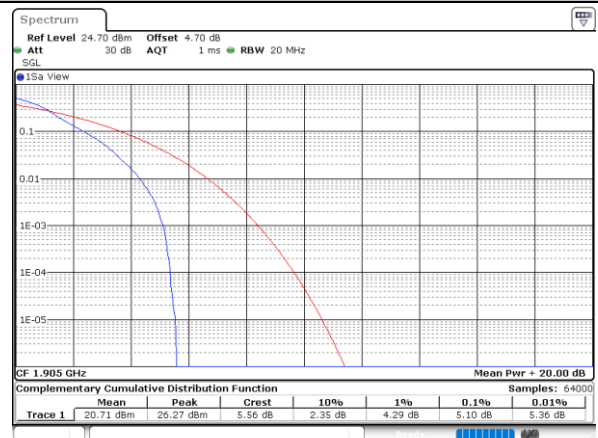
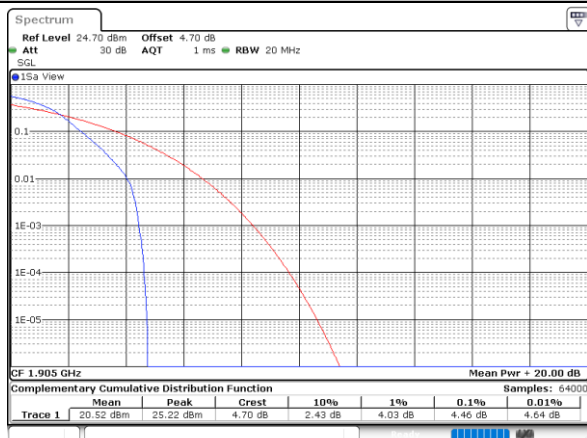
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





26dB Bandwidth

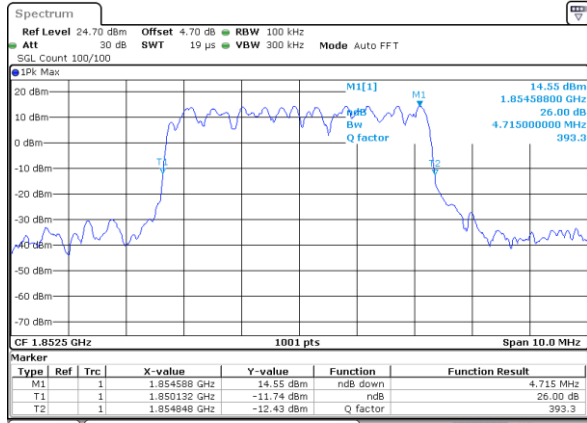
Mode	FR1 n25+12A : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.71	4.71	9.21	9.49	18.62	18.66		
Middle CH	4.69	4.99	9.25	9.43	18.58	18.78		
Highest CH	4.79	4.69	9.47	9.25	18.82	18.78		



FR1 n25+12A / 5MHz / DFT-S OFDM

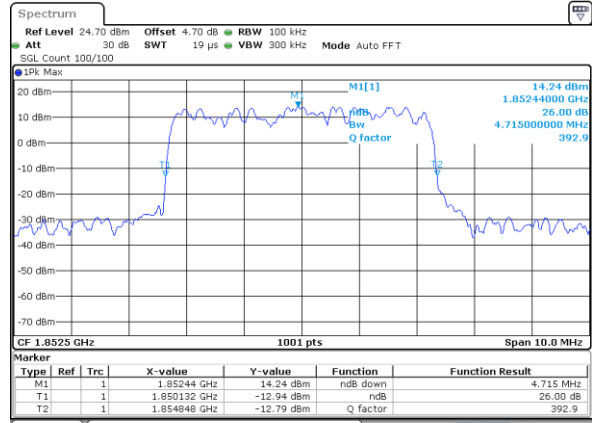
PI/2 BPSK

Lowest Channel

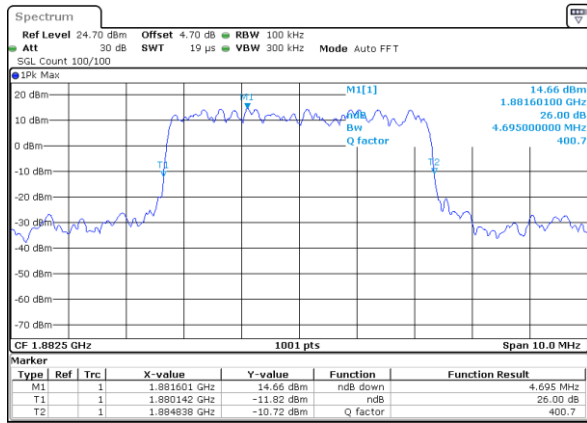


QPSK

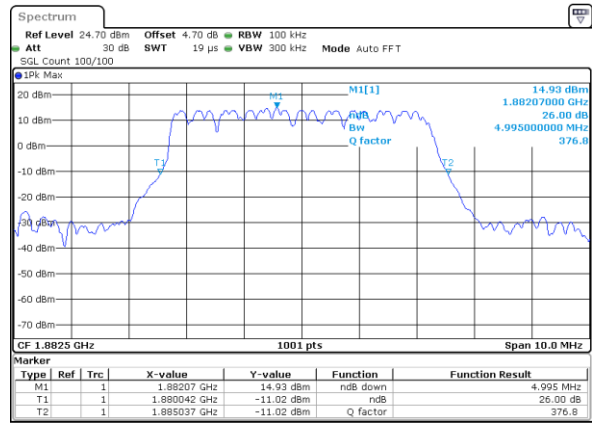
Lowest Channel



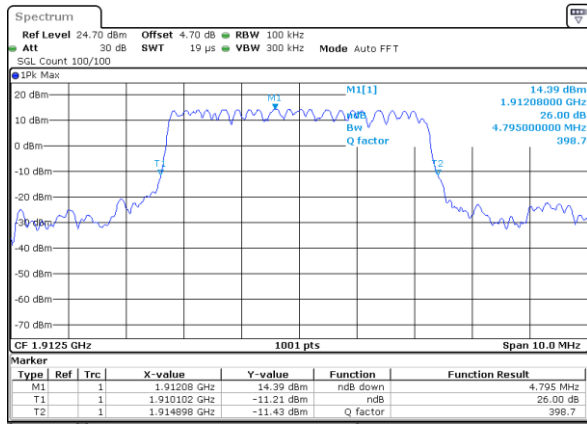
Middle Channel



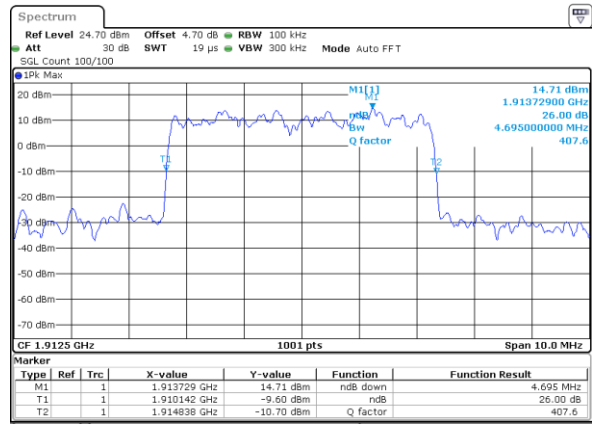
Middle Channel



Highest Channel



Highest Channel

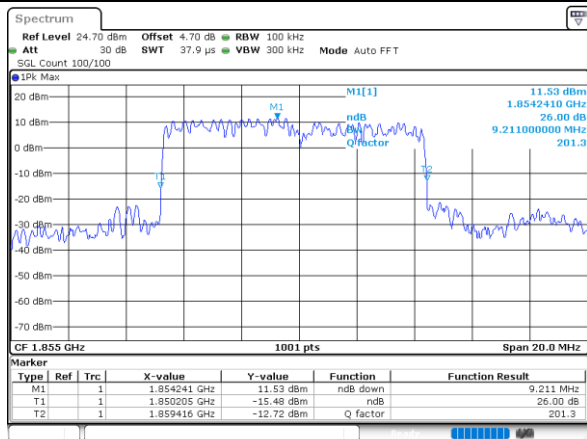




FR1 n25+12A / 10MHz / DFT-S OFDM

PI/2 BPSK

Lowest Channel

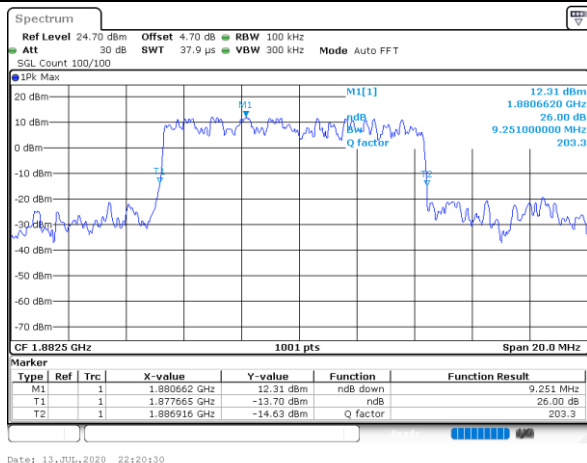


QPSK

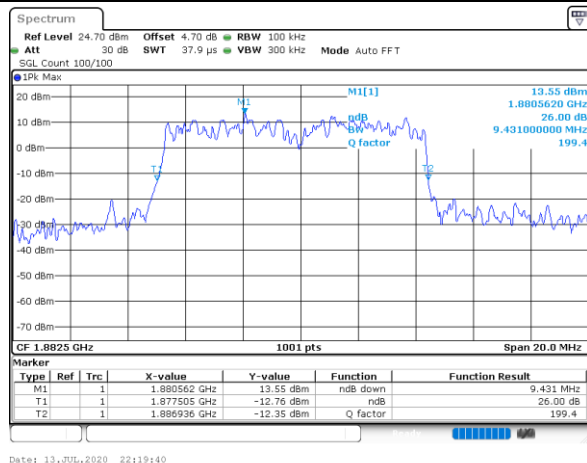
Lowest Channel



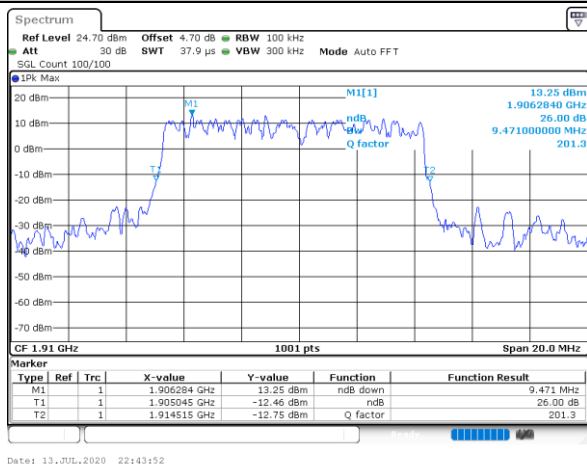
Middle Channel



Middle Channel



Highest Channel



Highest Channel

