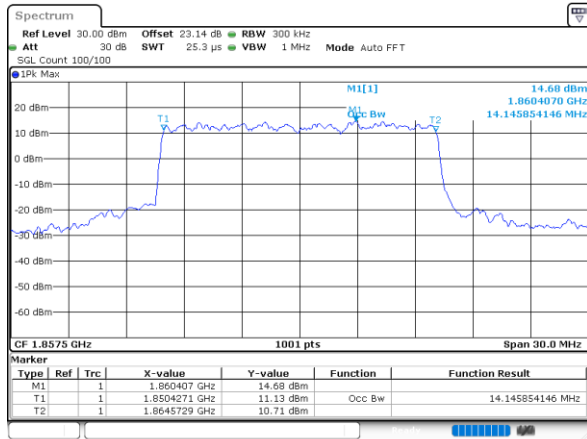




FR1 n2 / 15MHz / CP OFDM

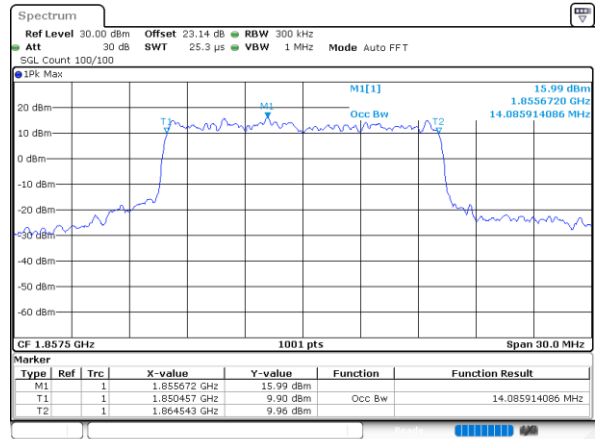
QPSK

Lowest Channel

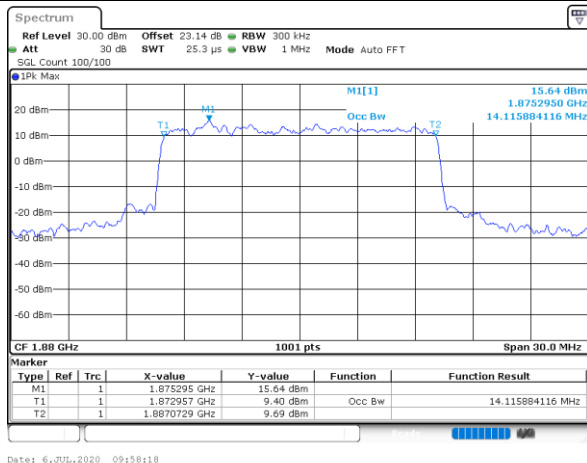


16QAM

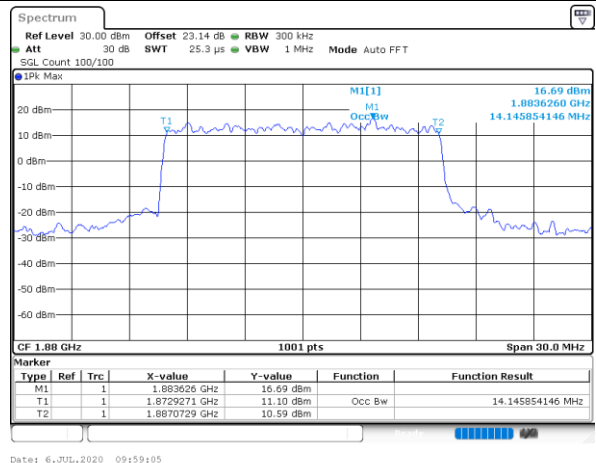
Lowest Channel



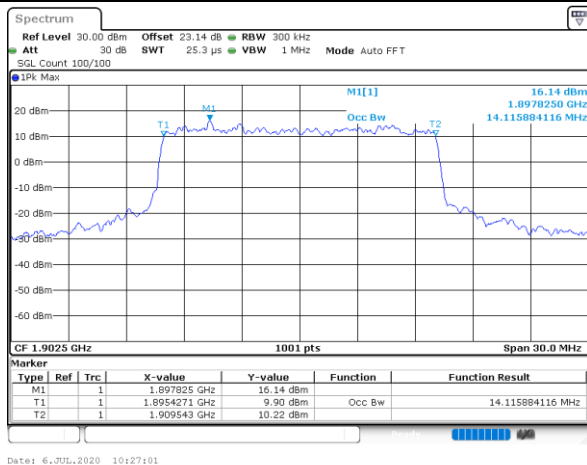
Middle Channel



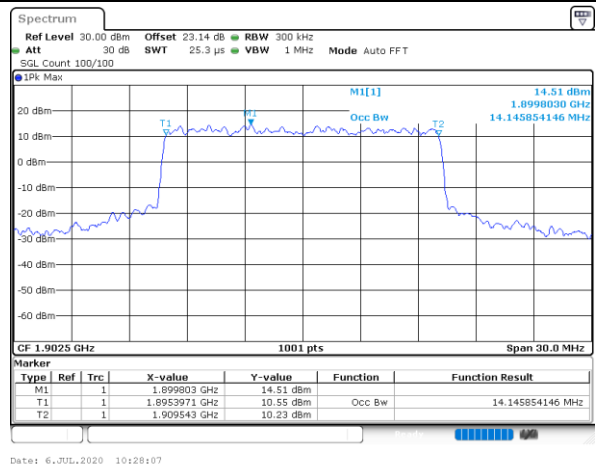
Middle Channel



Highest Channel



Highest Channel

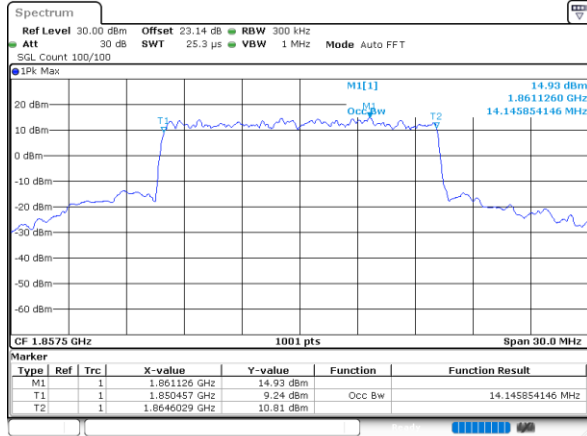




FR1 n2 / 15MHz / CP OFDM

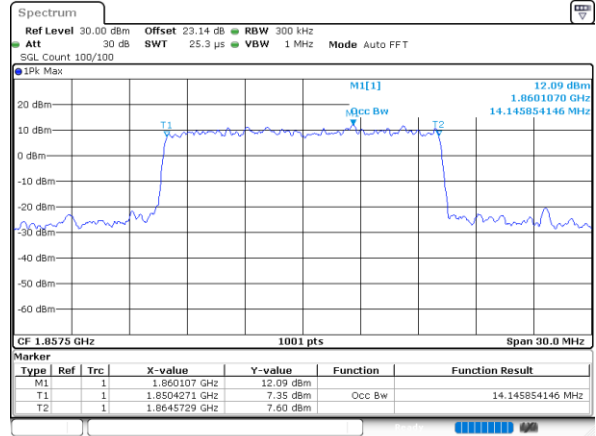
64QAM

Lowest Channel

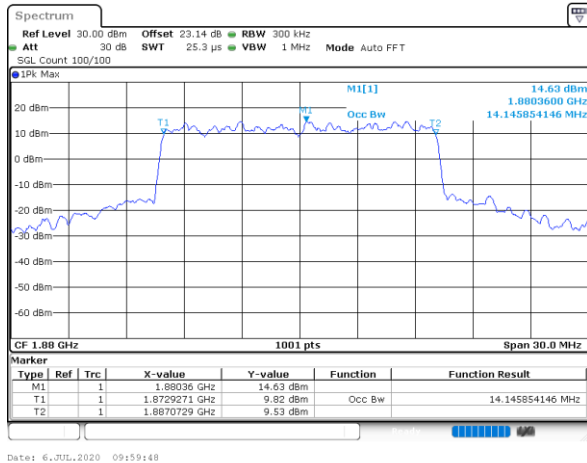


256QAM

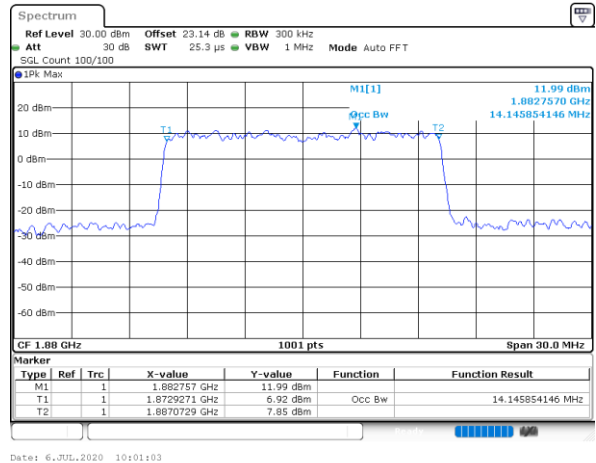
Lowest Channel



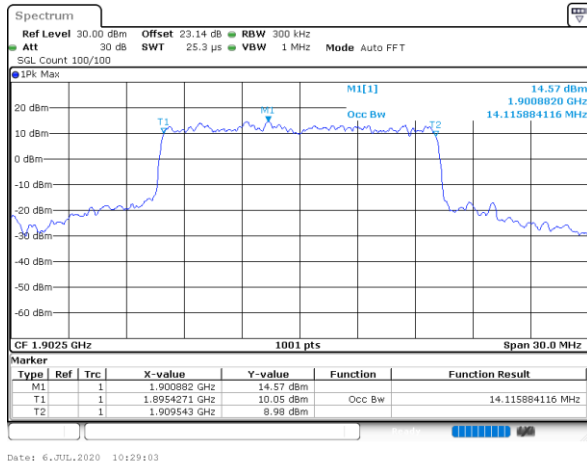
Middle Channel



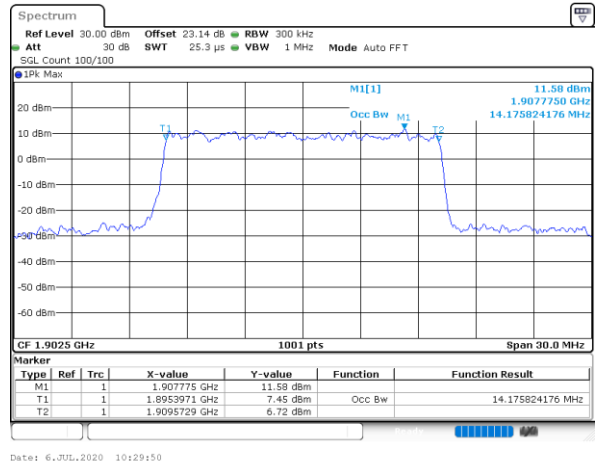
Middle Channel



Highest Channel



Highest Channel

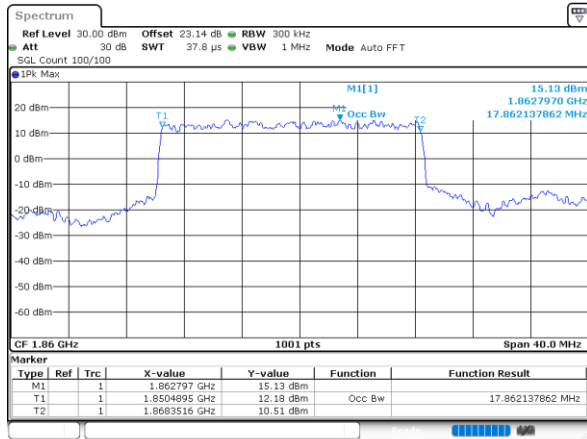




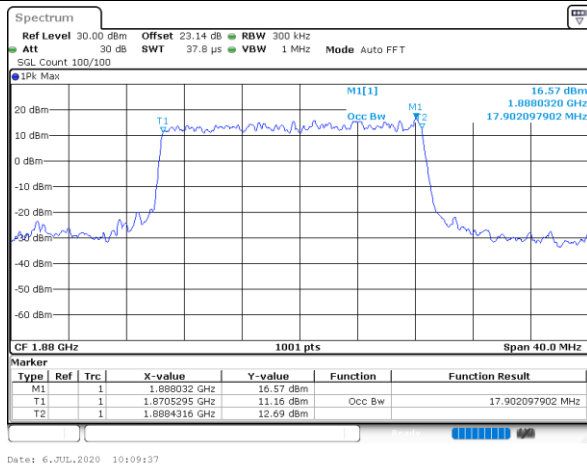
FR1 n2 / 20MHz / DFT-S OFDM

PI/2 BPSK

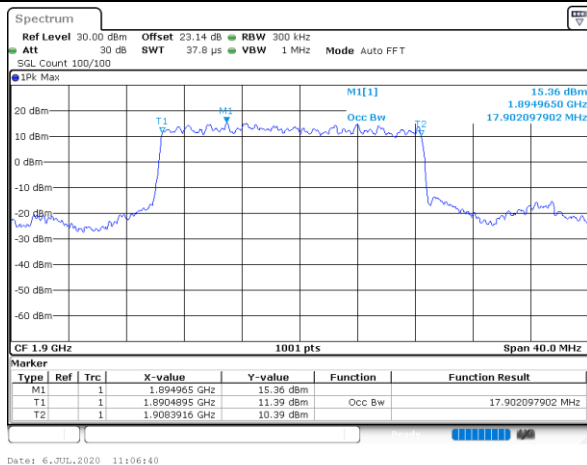
Lowest Channel



Middle Channel



Highest Channel

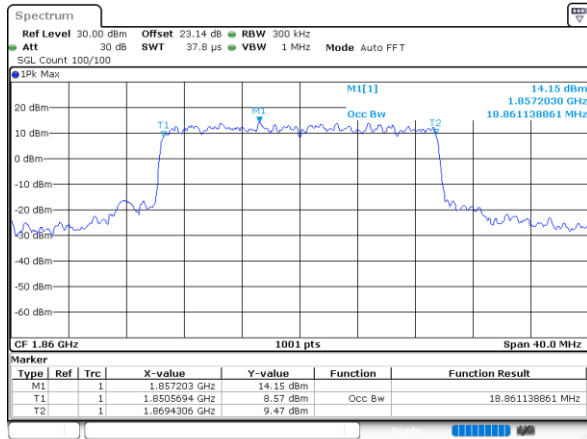




FR1 n2 / 20MHz / CP OFDM

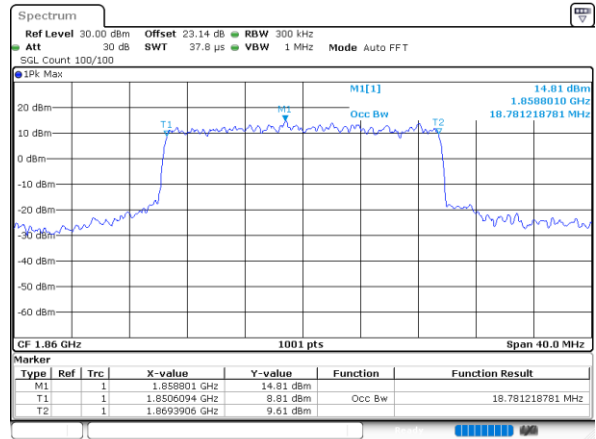
QPSK

Lowest Channel

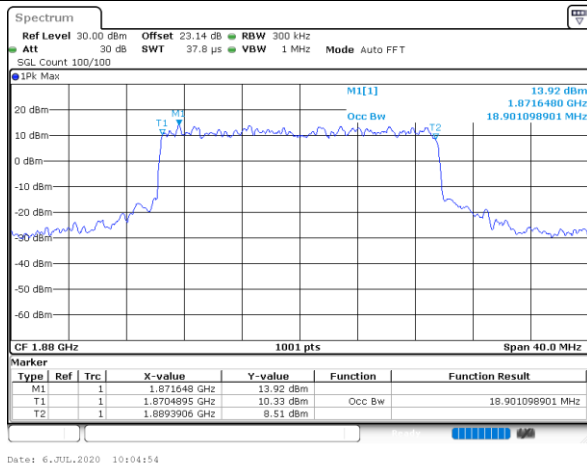


16QAM

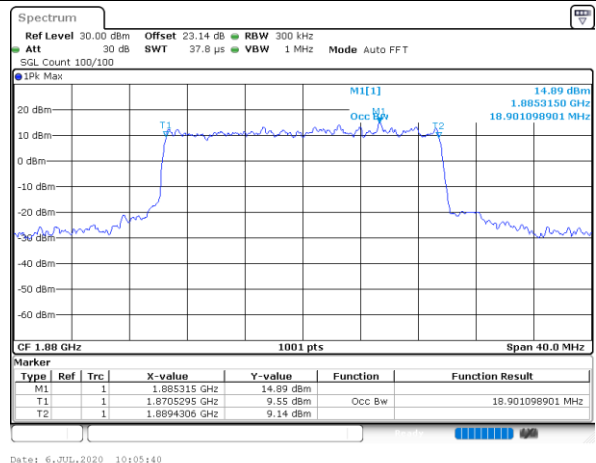
Lowest Channel



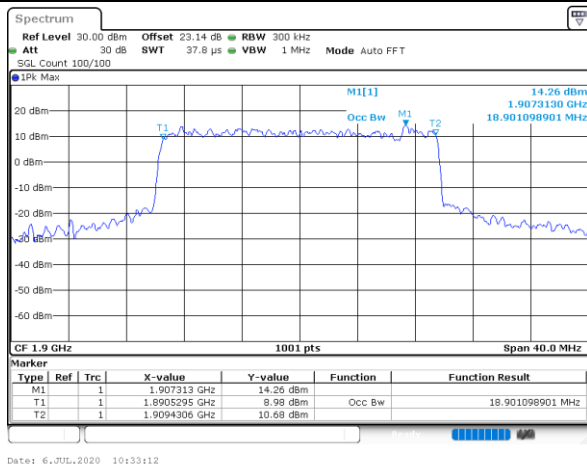
Middle Channel



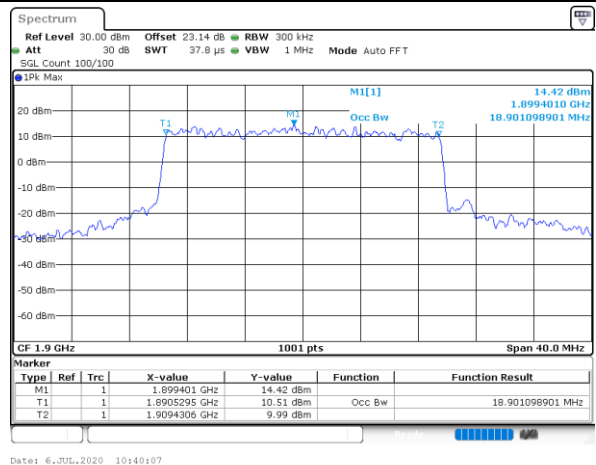
Middle Channel



Highest Channel



Highest Channel

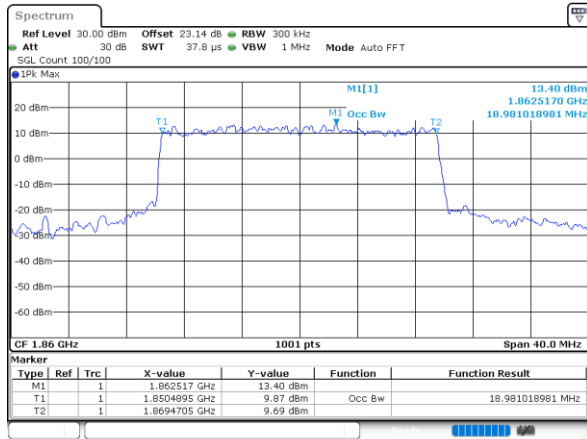




FR1 n2 / 20MHz / CP OFDM

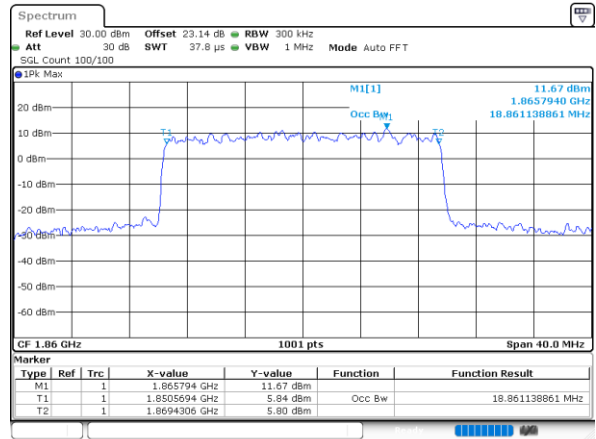
64QAM

Lowest Channel

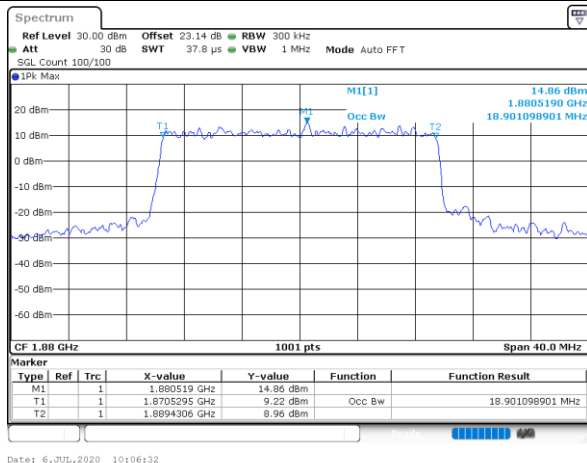


256QAM

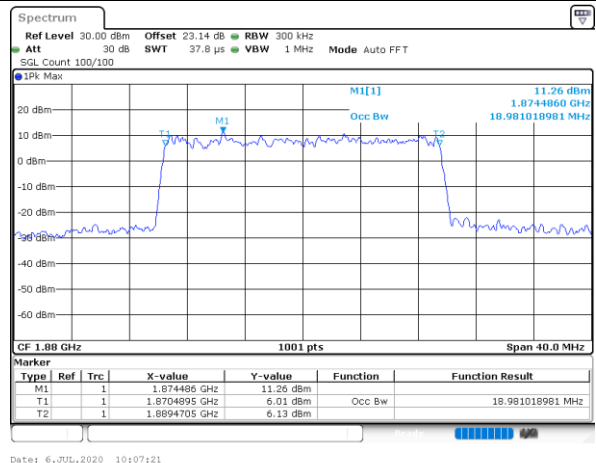
Lowest Channel



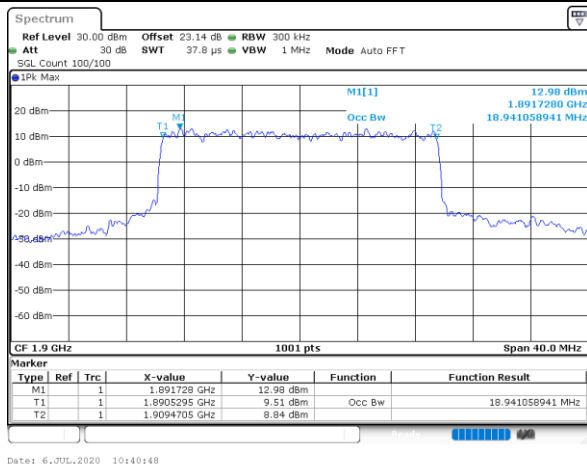
Middle Channel



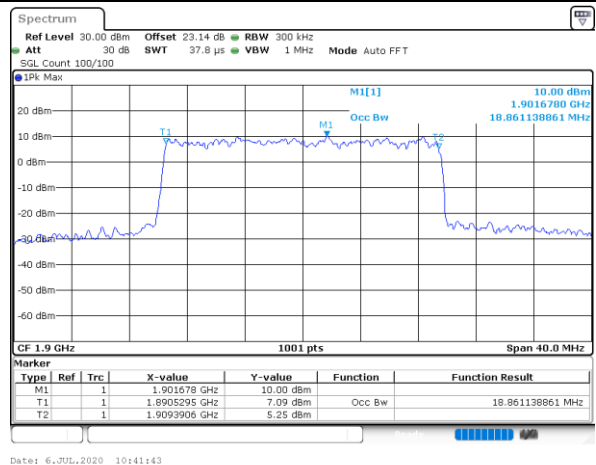
Middle Channel



Highest Channel



Highest Channel



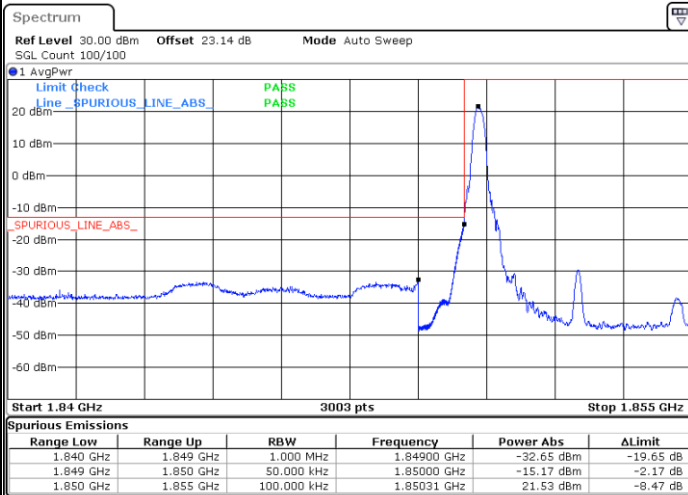


Conducted Band Edge

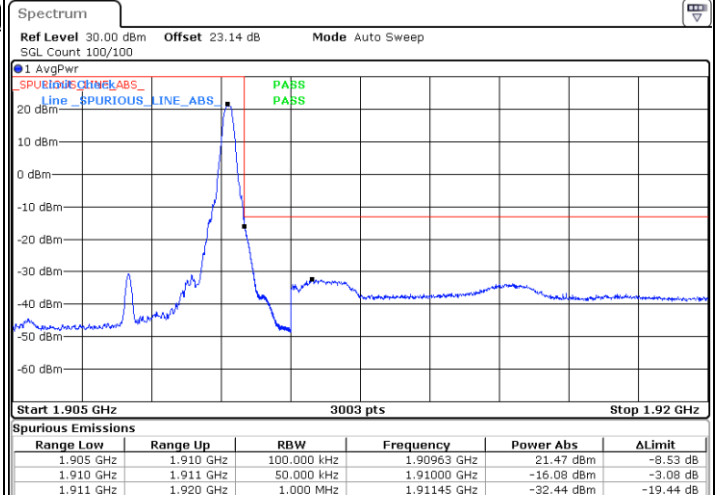
FR1 n2 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



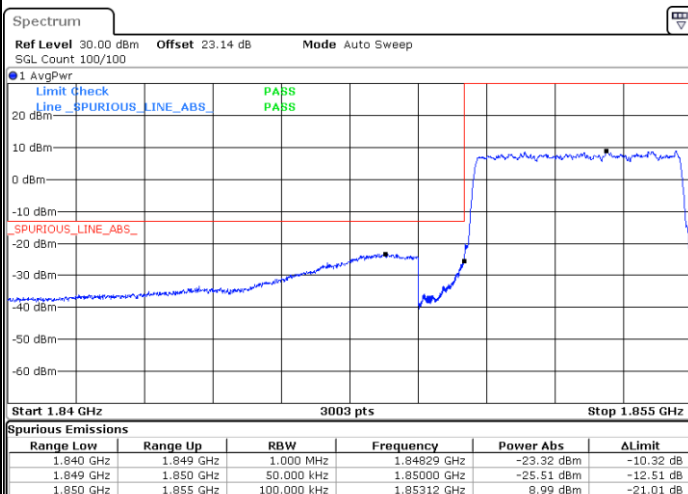
Date: 2.JUL.2020 10:29:33



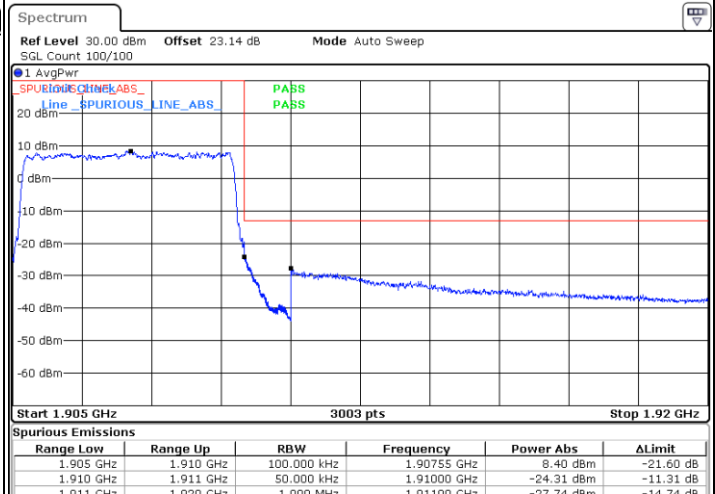
Date: 2.JUL.2020 14:27:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 10:25:40



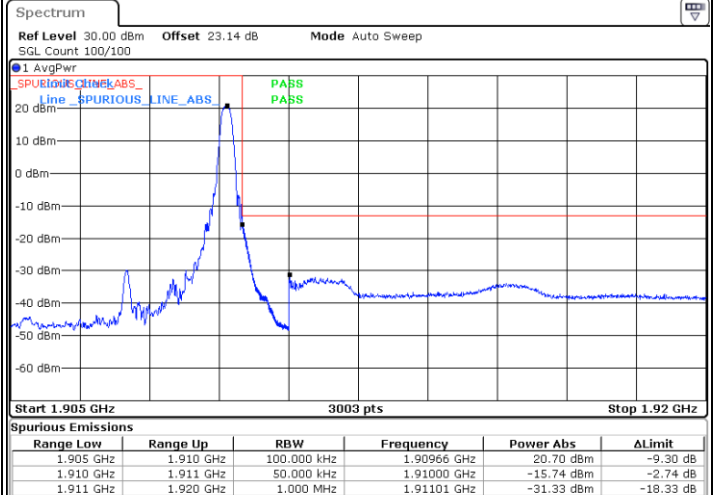
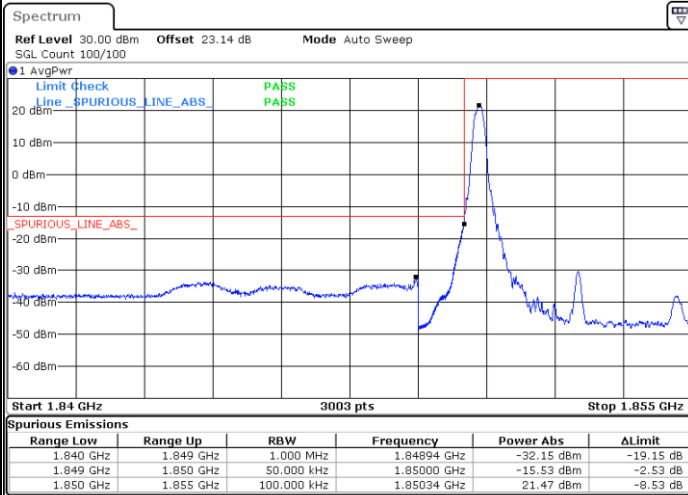
Date: 2.JUL.2020 14:23:15



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

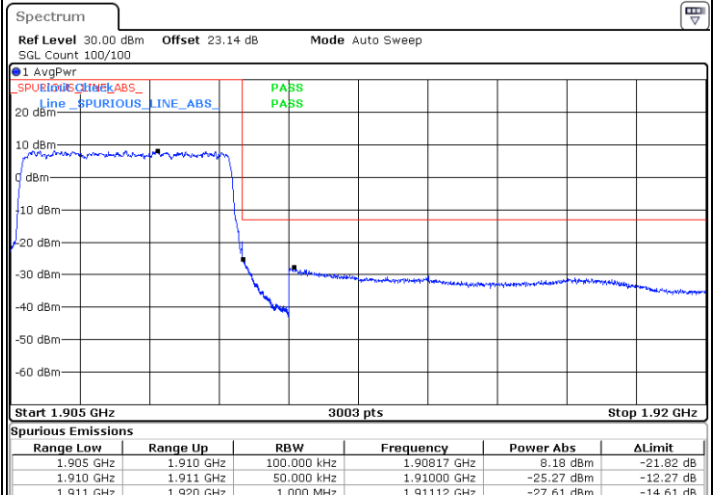
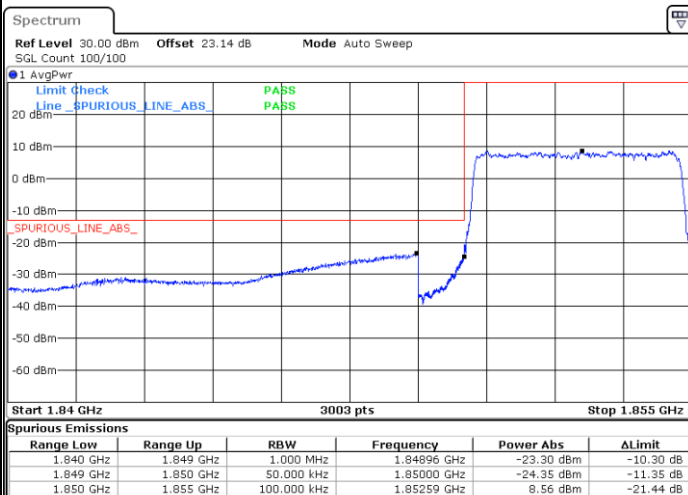
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

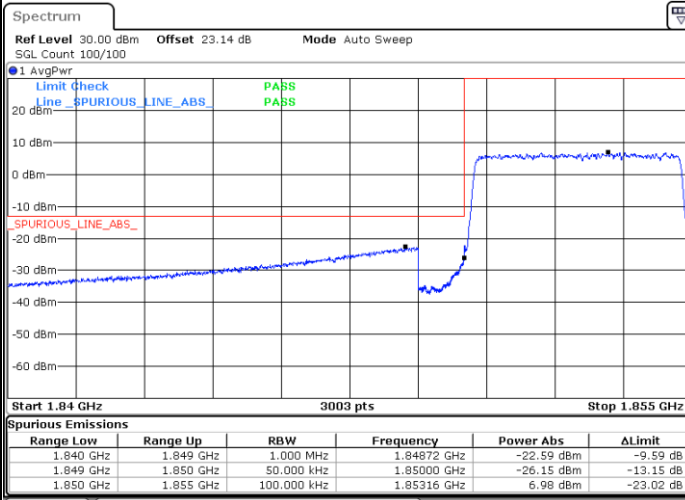




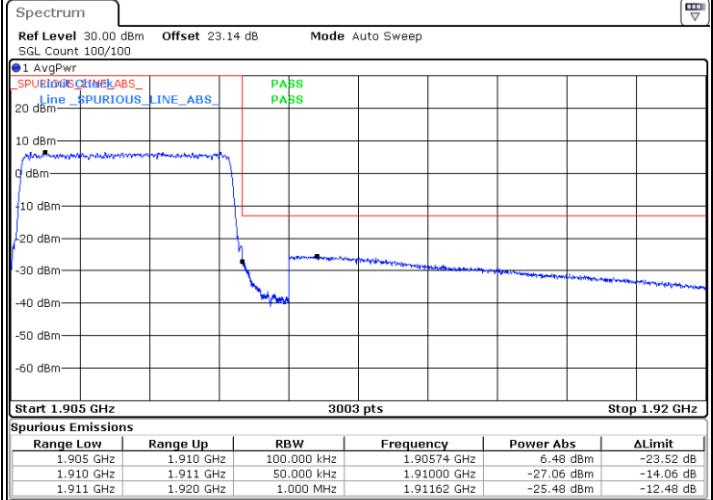
FR1 n2 / 5MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 10:02:06



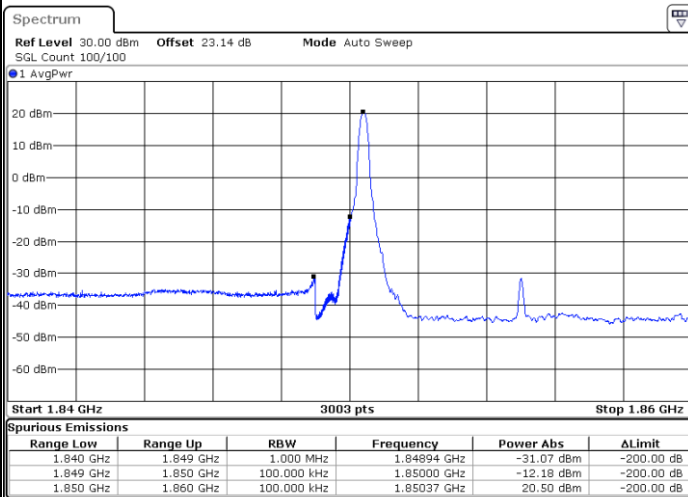
Date: 2.JUL.2020 14:21:34



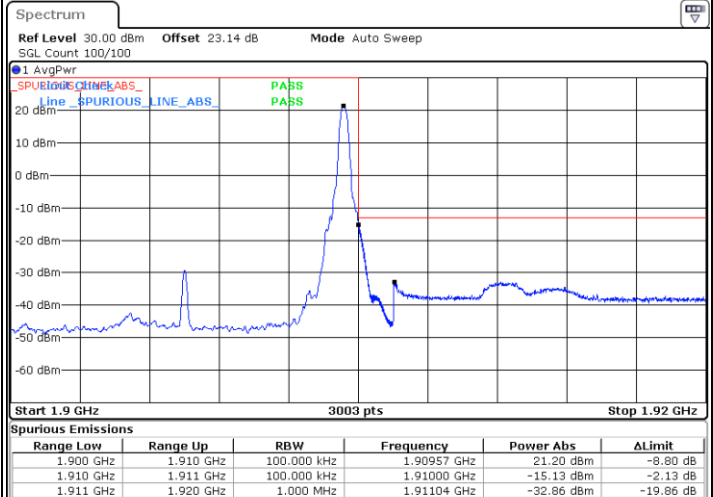
FR1 n2 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

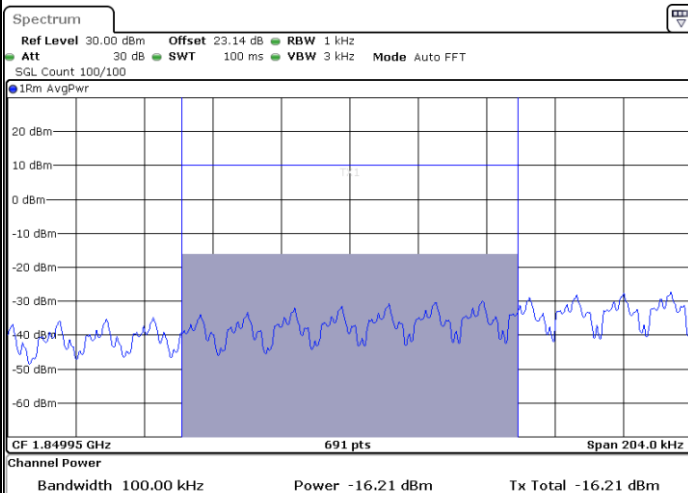


Date: 13.JUL.2020 11:11:17



Date: 2.JUL.2020 14:39:36

Channel Power -16.21dBm < -13dBm (Pass)

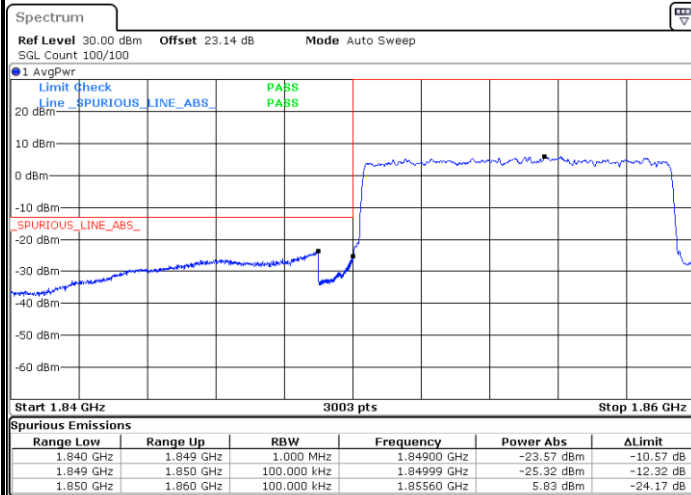


Date: 13.JUL.2020 14:26:03

Note: The band edge is tested by channel power integration method, ANSI C63.26 clause 5.7.2.

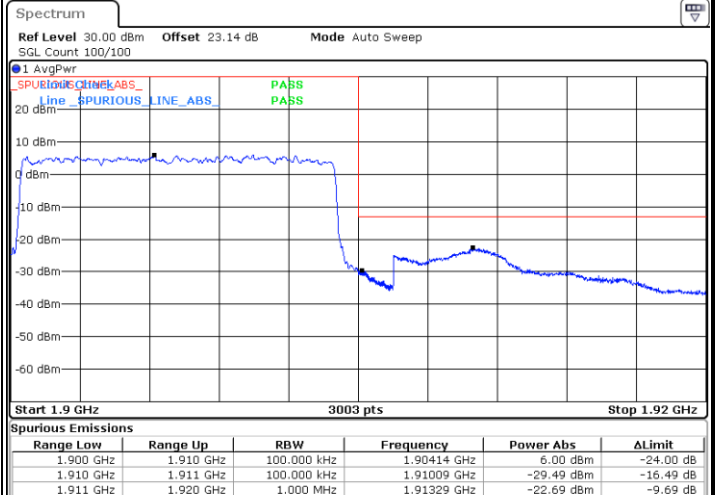


Lowest Band Edge / Full RB



Date: 2.JUL.2020 10:38:19

Highest Band Edge / Full RB



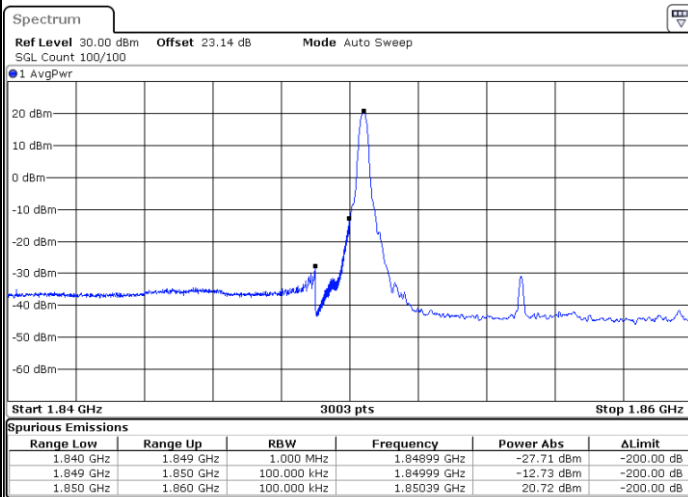
Date: 2.JUL.2020 14:36:10



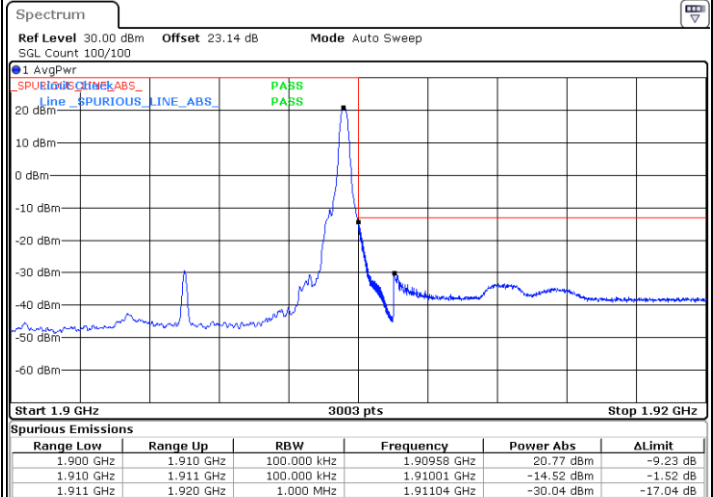
FR1 n2 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

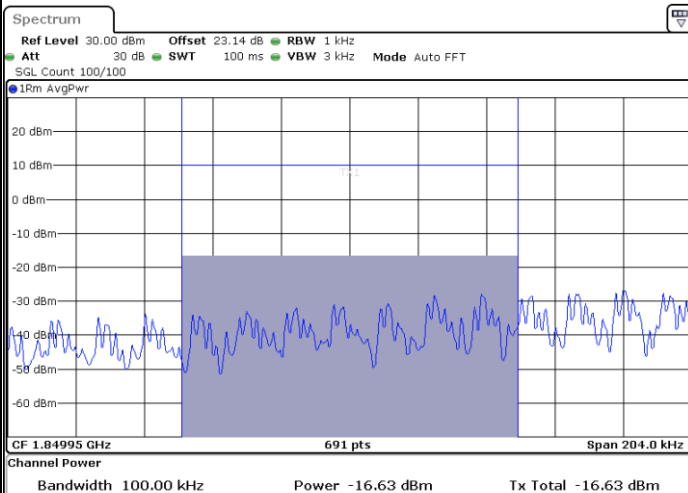


Date: 13.JUL.2020 11:16:35



Date: 2.JUL.2020 14:38:52

Channel Power -16.63dBm < -13dBm (Pass)

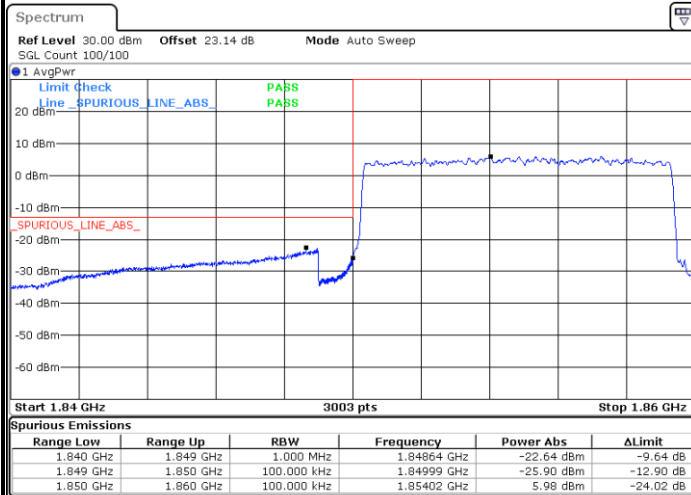


Date: 13.JUL.2020 14:26:55

Note: The band edge is tested by channel power integration method, ANSI C63.26 clause 5.7.2

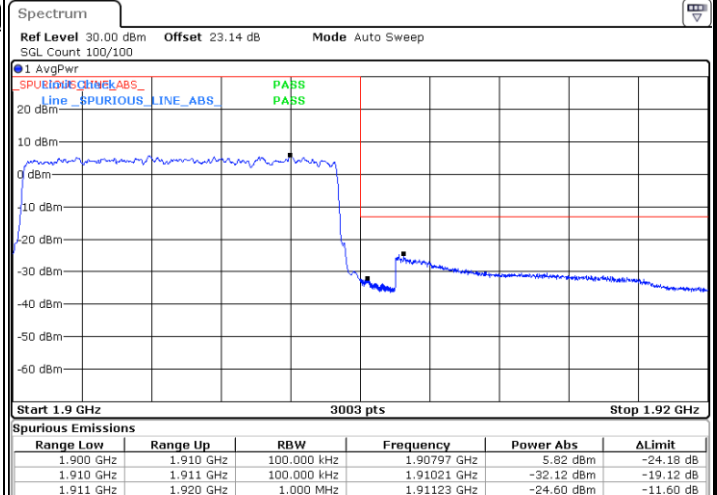


Lowest Band Edge / Full RB



Date: 2.JUL.2020 10:37:31

Highest Band Edge / Full RB



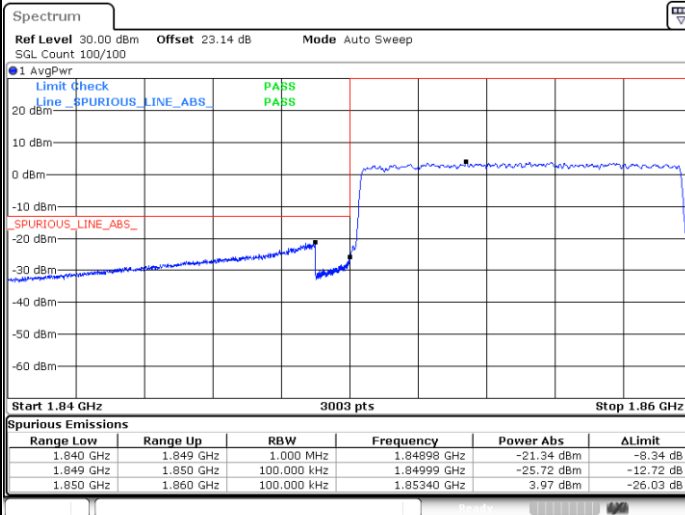
Date: 2.JUL.2020 14:37:51



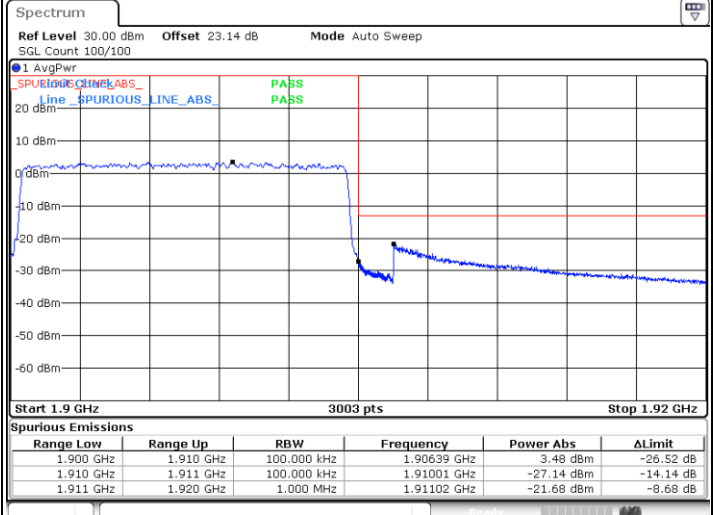
FR1 n2 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 10:07:54



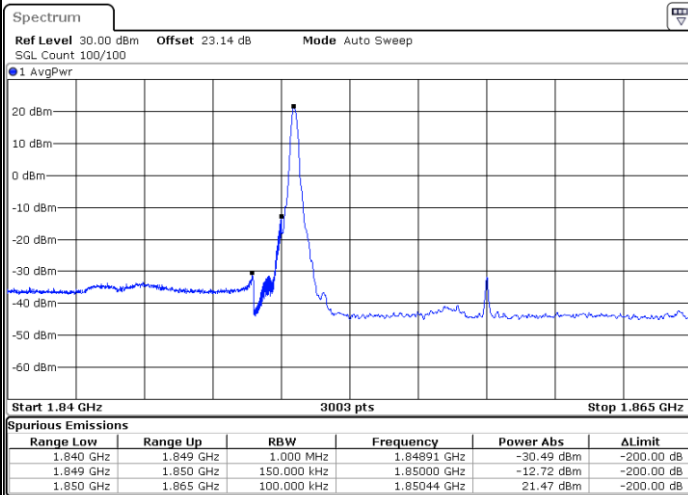
Date: 2.JUL.2020 14:29:42



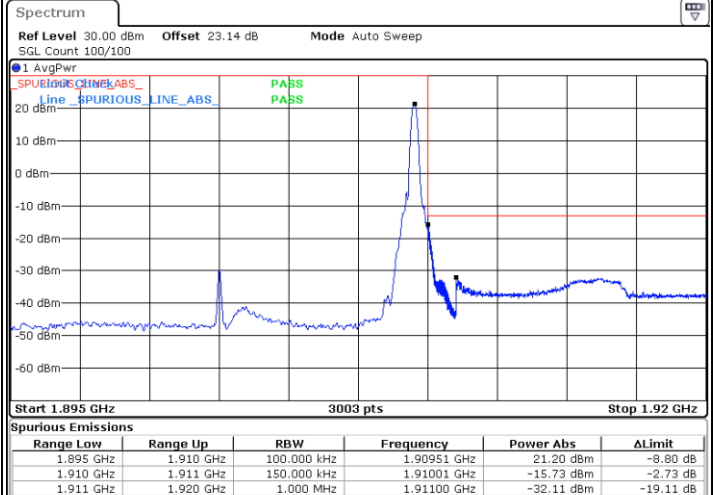
FR1 n2 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

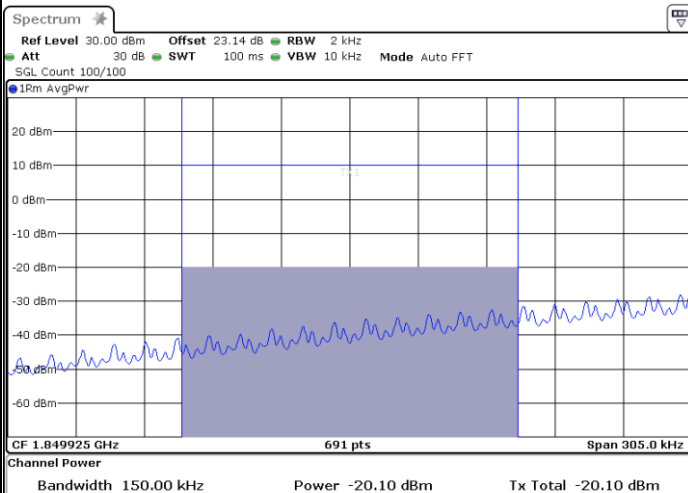


Date: 13.JUL.2020 11:26:17



Date: 2.JUL.2020 14:47:58

Channel Power -20.1dBm < -13dBm (Pass)

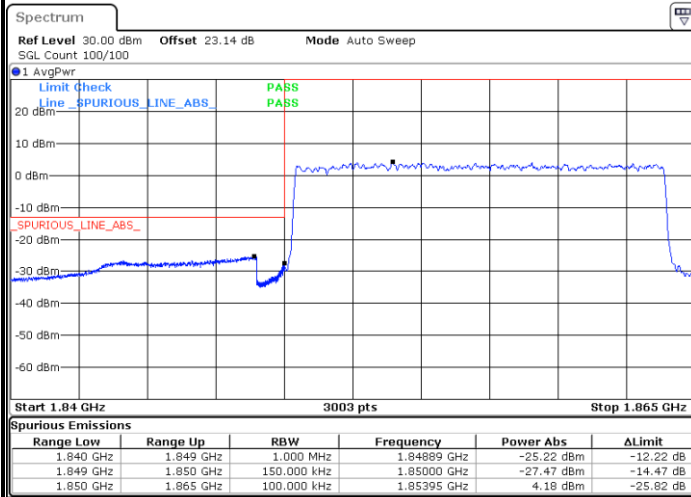


Date: 13.JUL.2020 14:29:51

Note: The band edge is tested by channel power integration method, ANSI C63.26 clause 5.7.2.

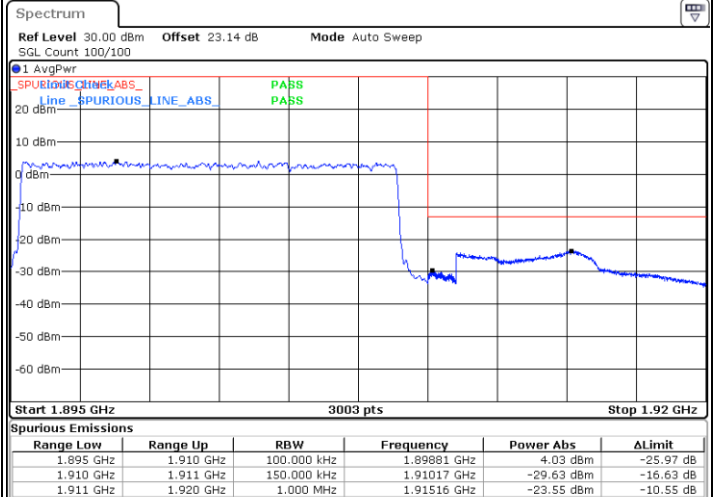


Lowest Band Edge / Full RB



Date: 2.JUL.2020 11:43:30

Highest Band Edge / Full RB



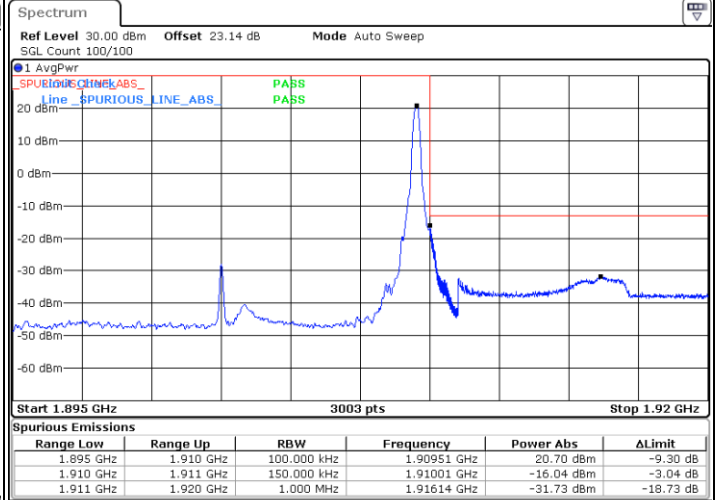
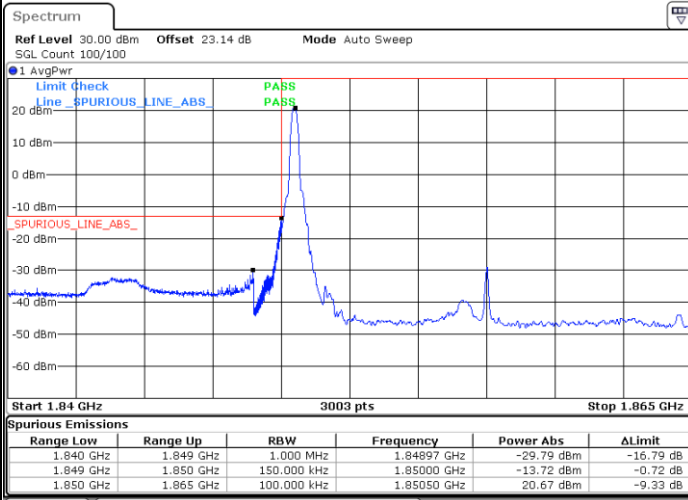
Date: 2.JUL.2020 14:43:25



FR1 n2 / 15MHz / DFT-s-OFDM / QPSK

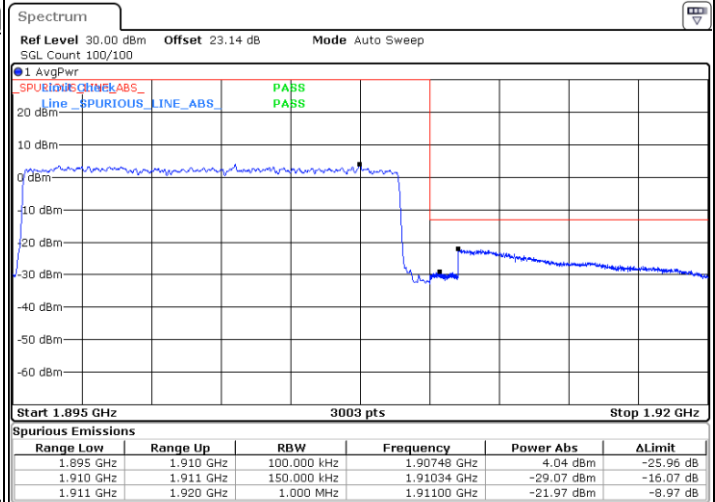
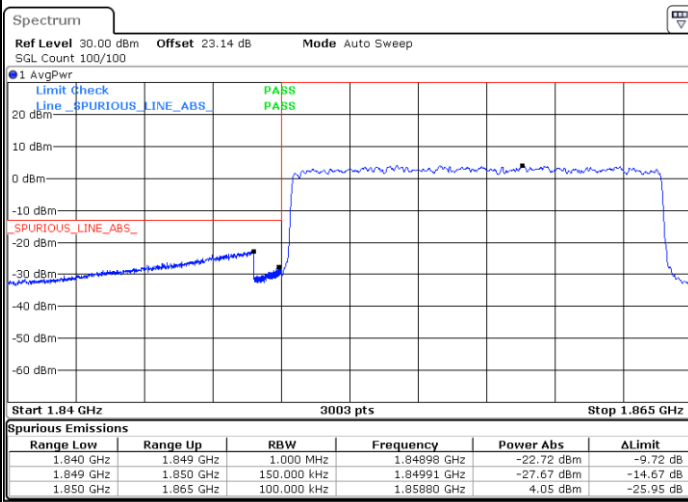
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

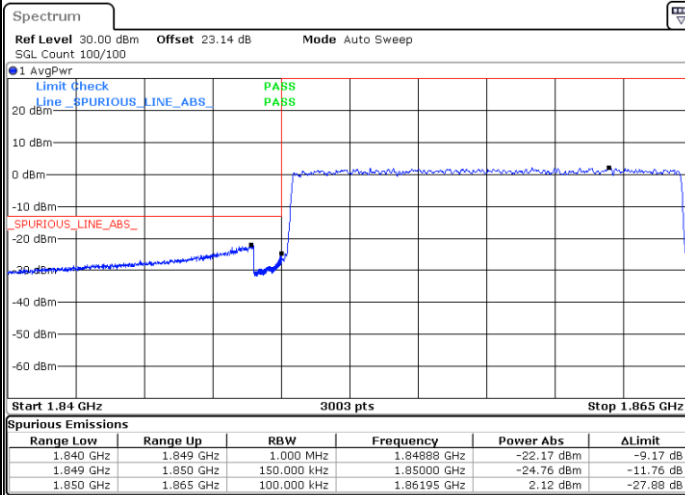




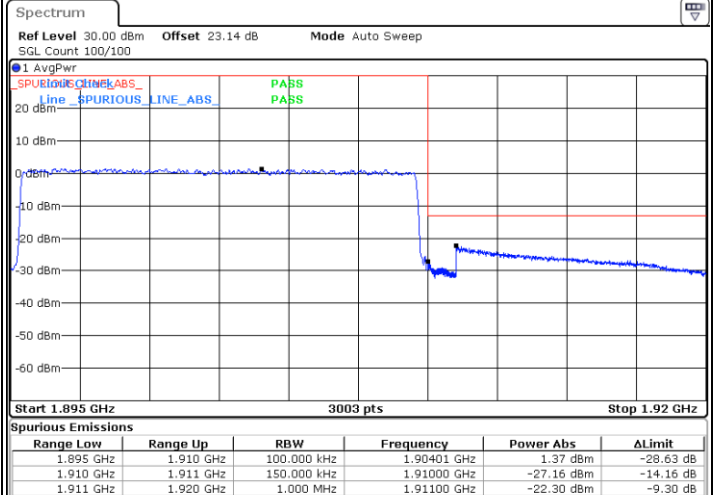
FR1 n2 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 10:10:20



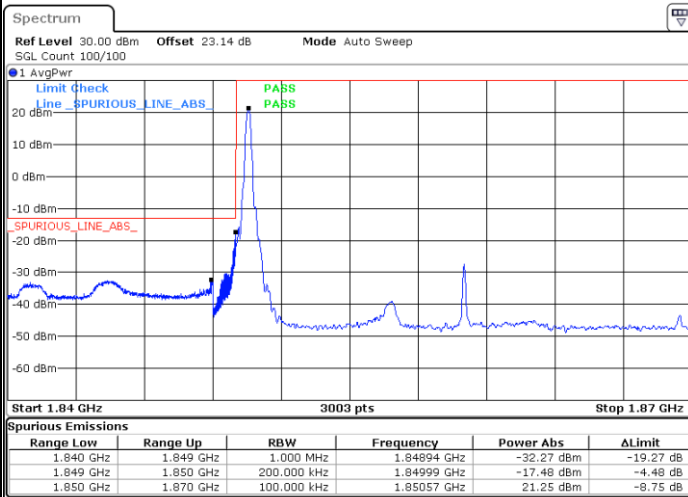
Date: 2.JUL.2020 14:42:07



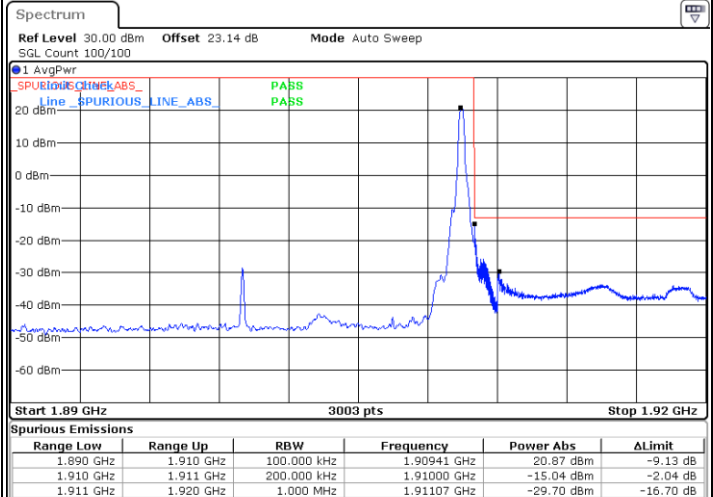
FR1 n2 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



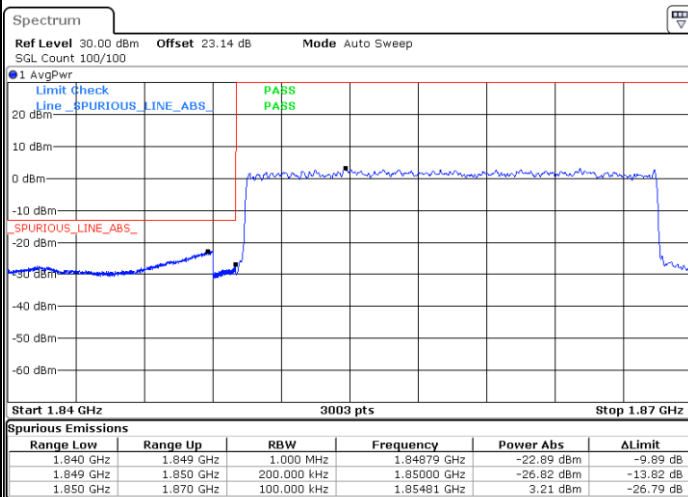
Date: 2.JUL.2020 14:12:54



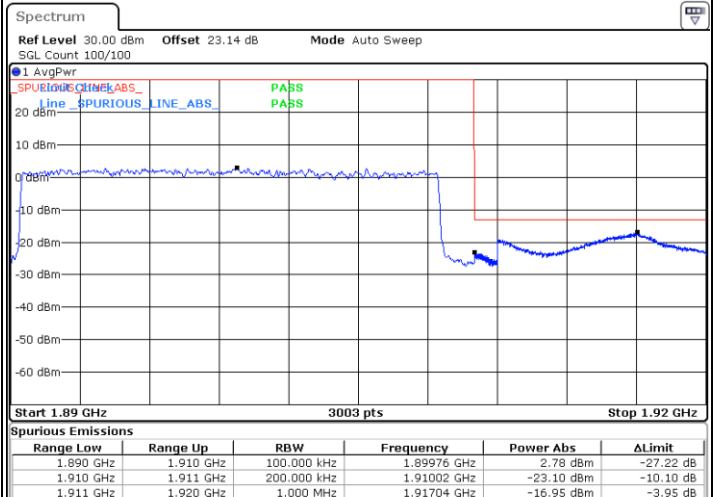
Date: 2.JUL.2020 15:07:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 14:16:41



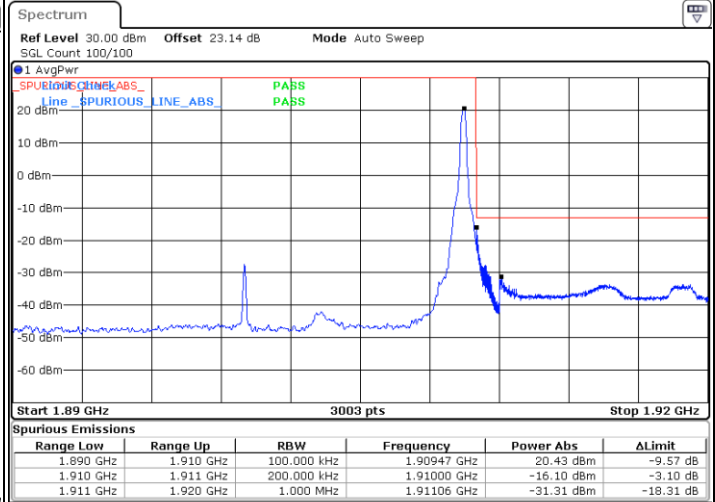
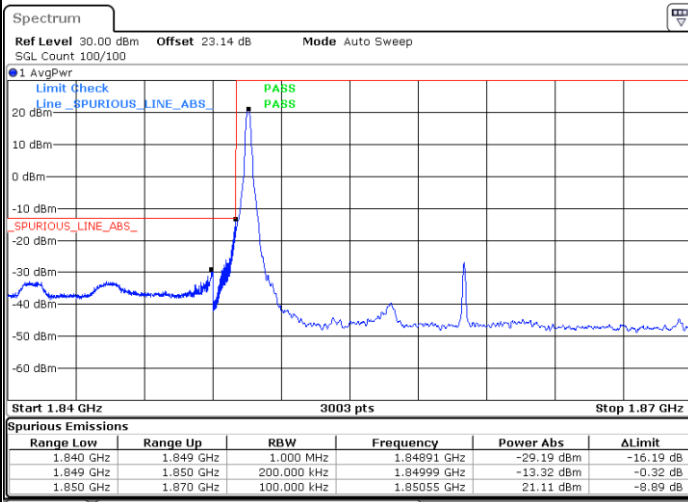
Date: 2.JUL.2020 15:03:17



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

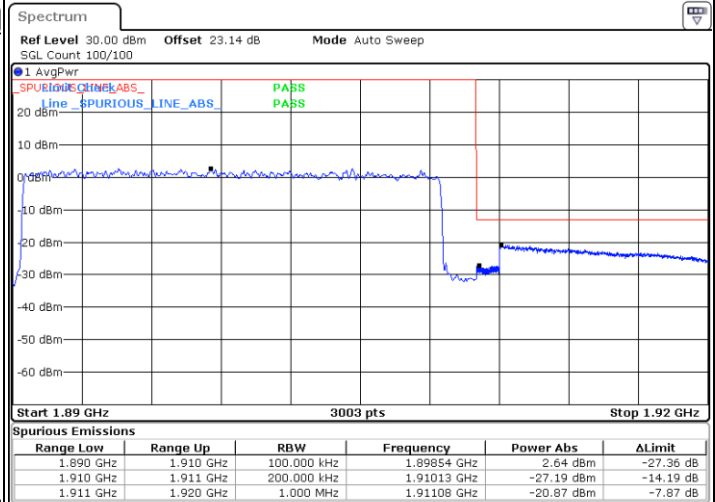
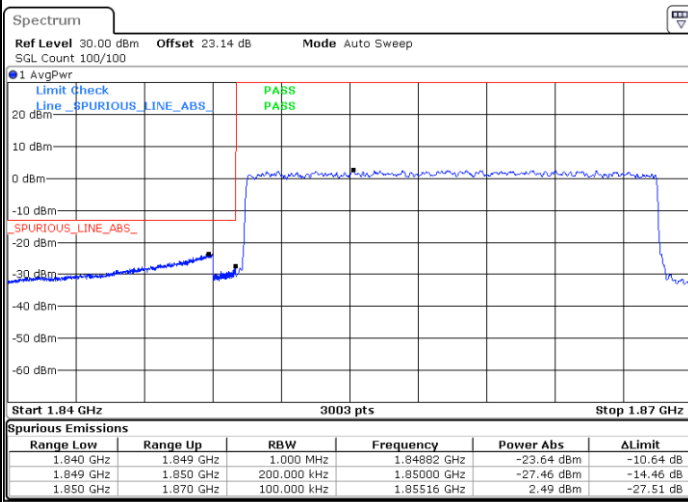
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

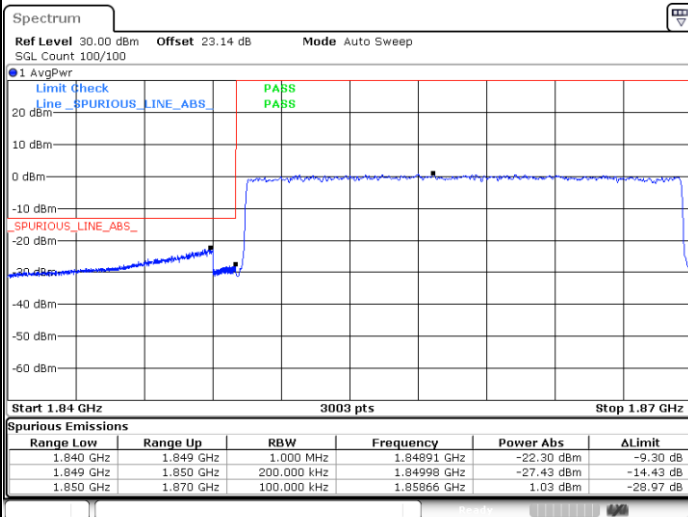




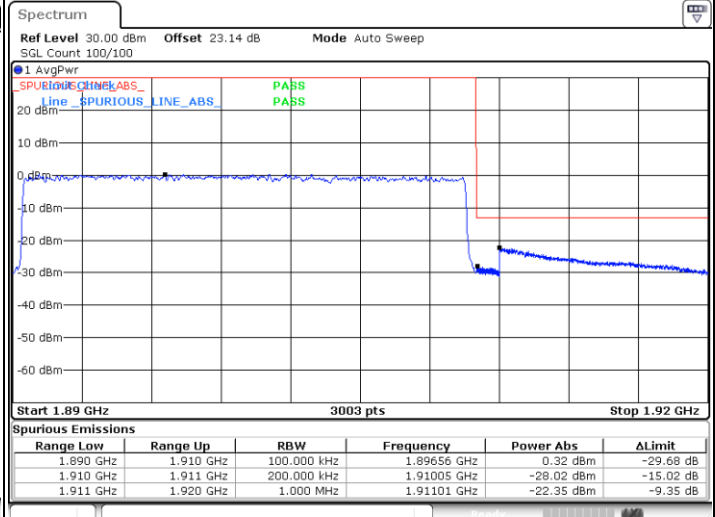
FR1 n2 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 10:12:35



Date: 2.JUL.2020 15:01:23

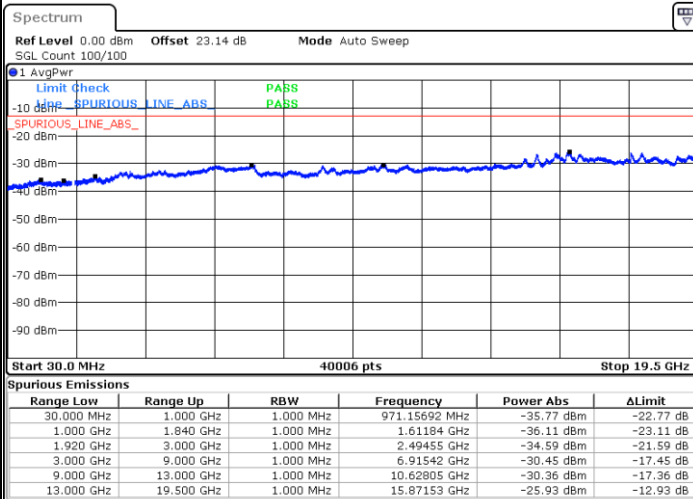


Conducted Spurious Emission

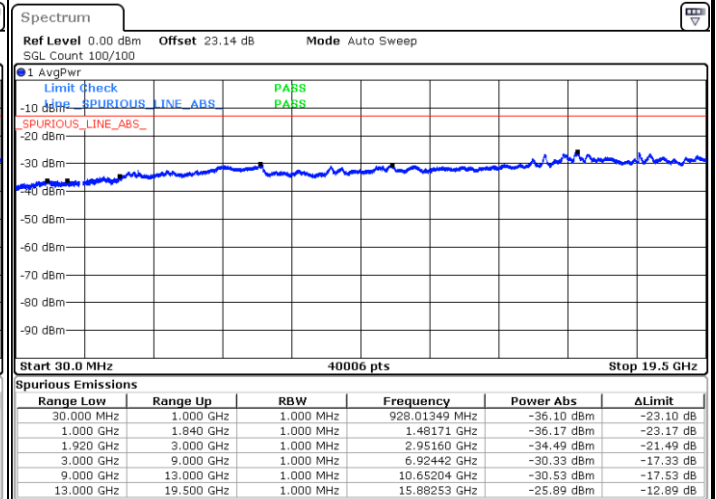
FR1 n2 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

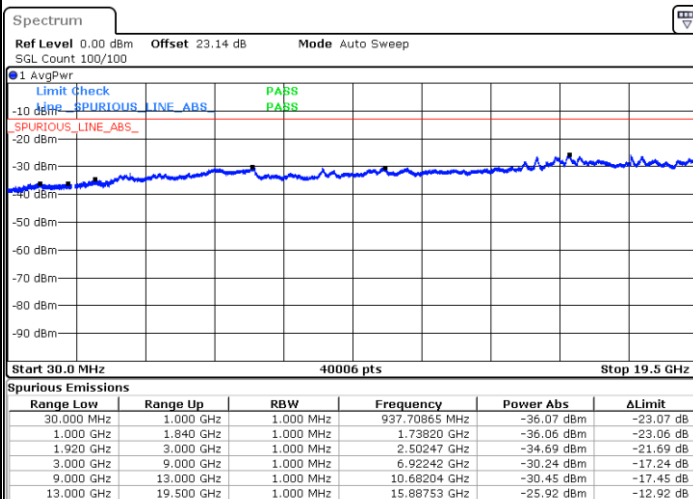


Date: 7.JUL.2020 13:50:36



Date: 7.JUL.2020 14:18:31

Highest Channel / 1RB1

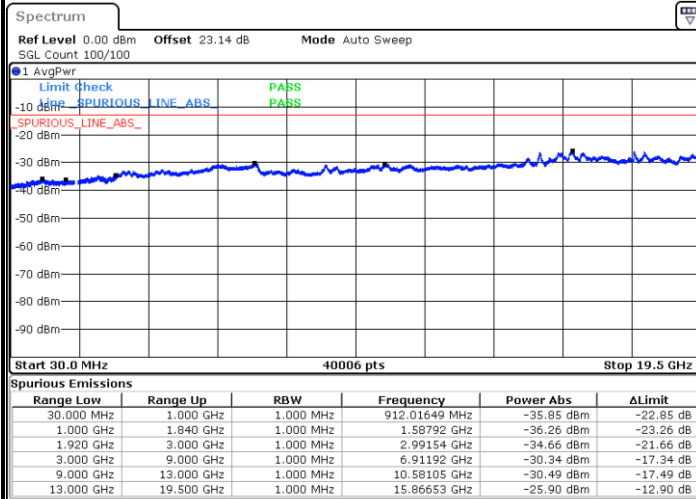


Date: 7.JUL.2020 14:36:59



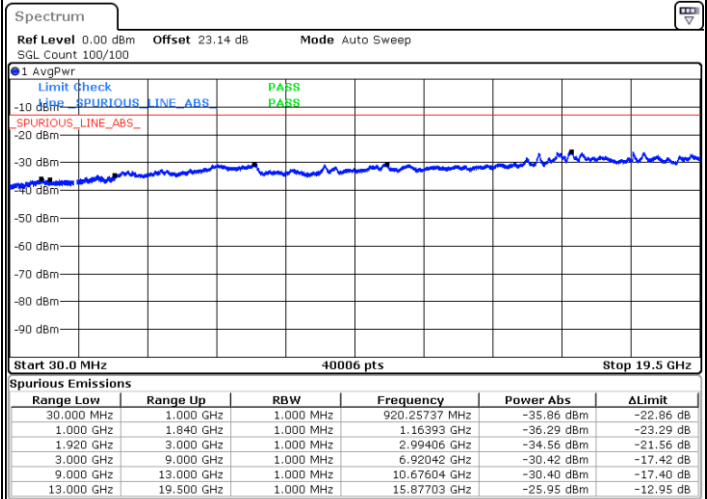
FR1 n2 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



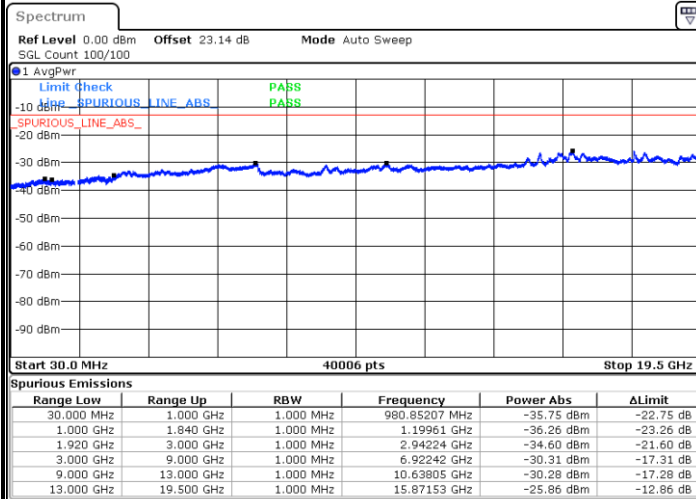
Date: 7.JUL.2020 14:00:03

Middle Channel / 1RB1



Date: 7.JUL.2020 14:21:48

Highest Channel / 1RB1



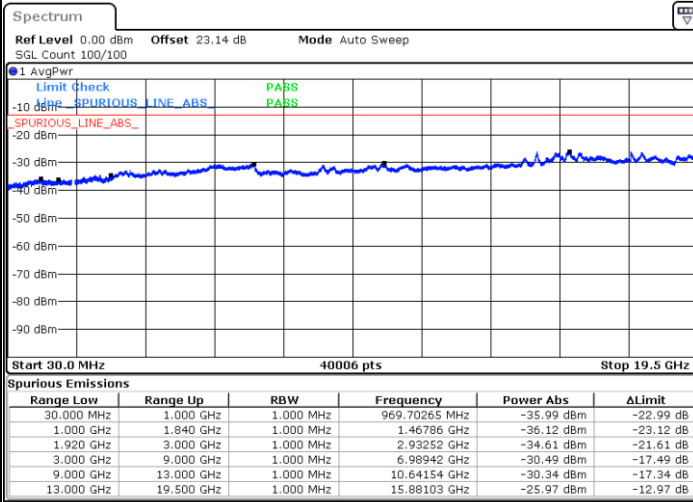
Date: 7.JUL.2020 14:39:46



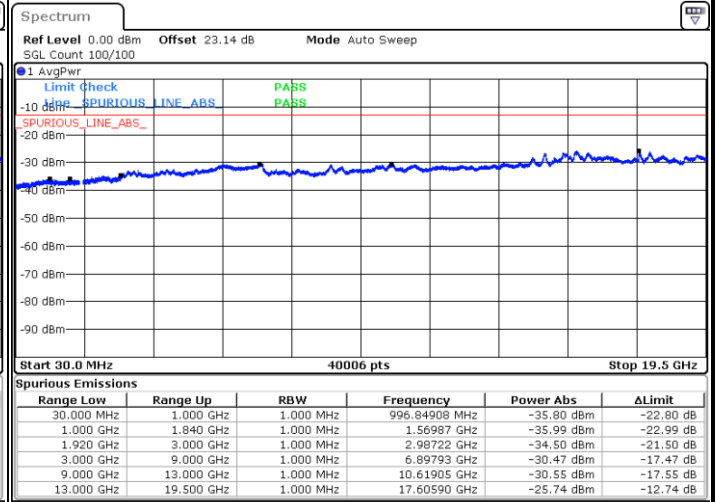
FR1 n2 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

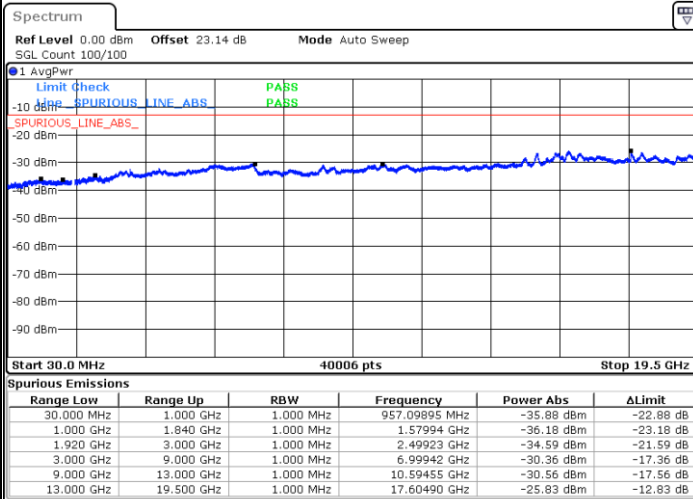


Date: 7.JUL.2020 14:03:12



Date: 7.JUL.2020 14:24:38

Highest Channel / 1RB1

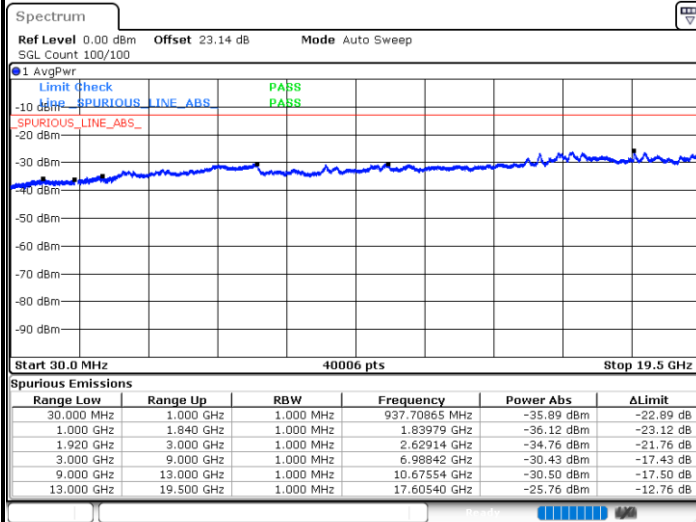


Date: 7.JUL.2020 14:48:46



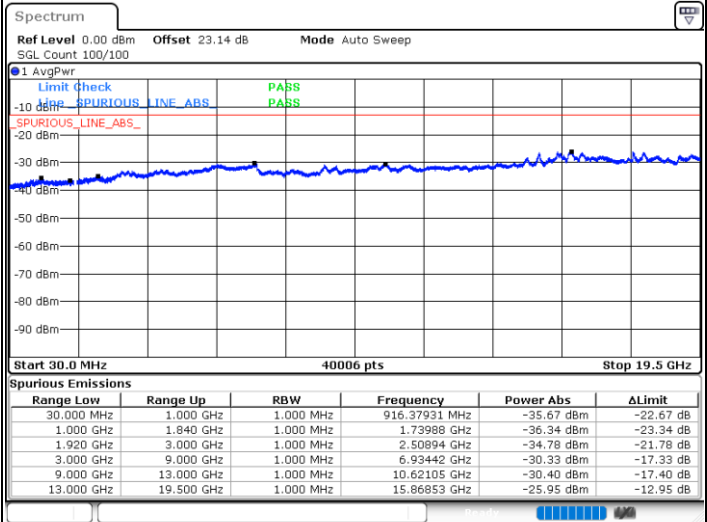
FR1 n2 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



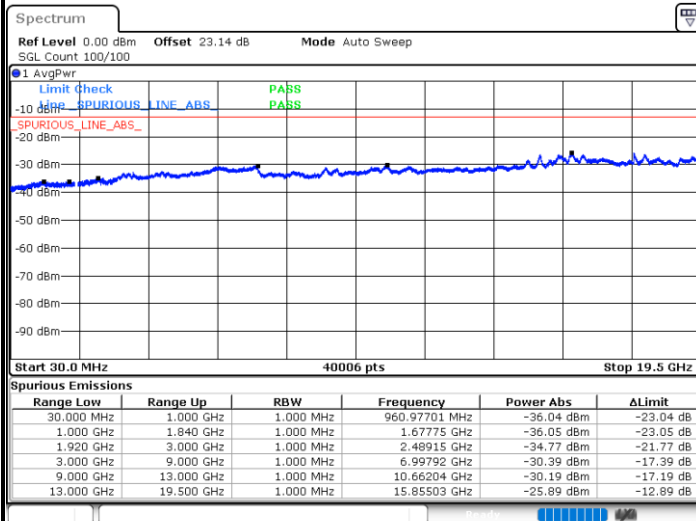
Date: 7.JUL.2020 14:06:11

Middle Channel / 1RB1



Date: 7.JUL.2020 14:28:46

Highest Channel / 1RB1



Date: 7.JUL.2020 14:51:32

Frequency Stability

Test Conditions		FR1 n2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

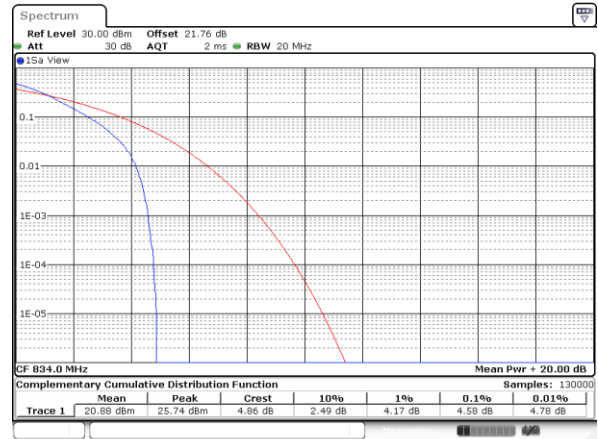
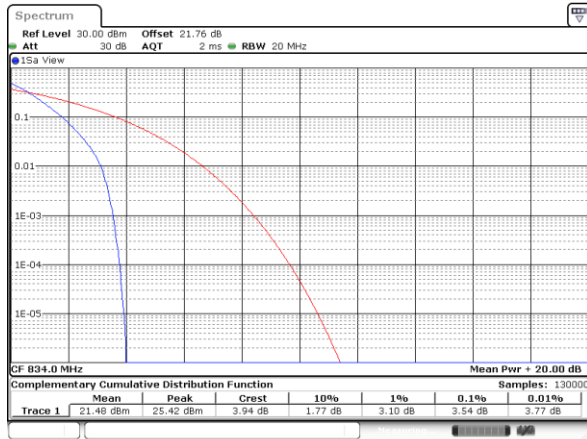
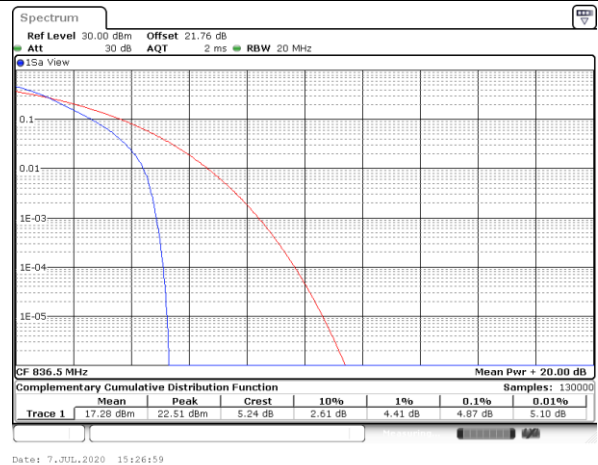
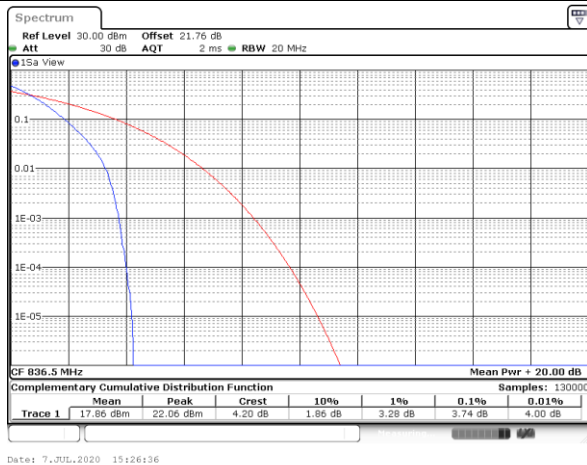
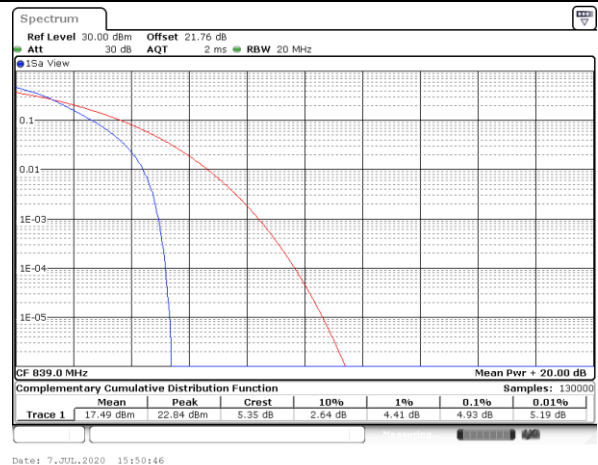
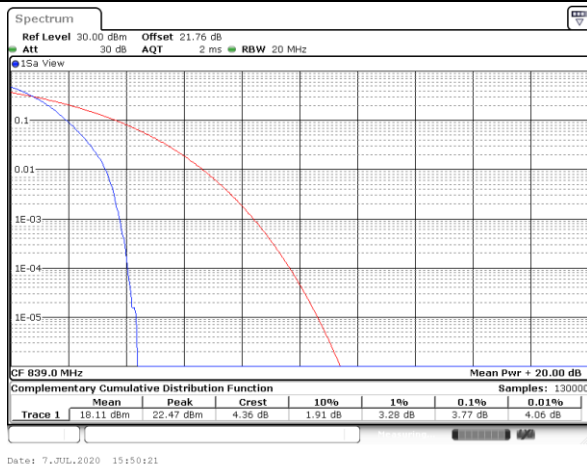
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

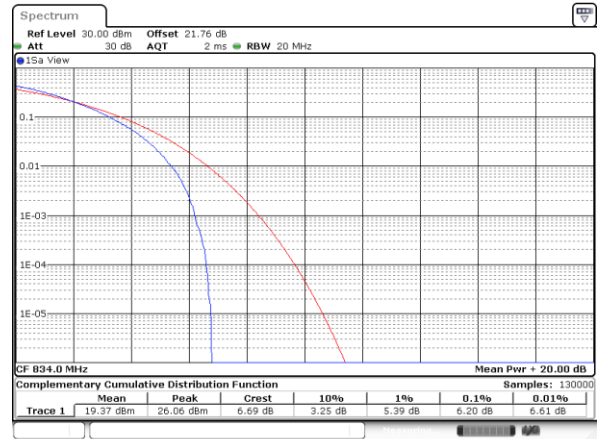
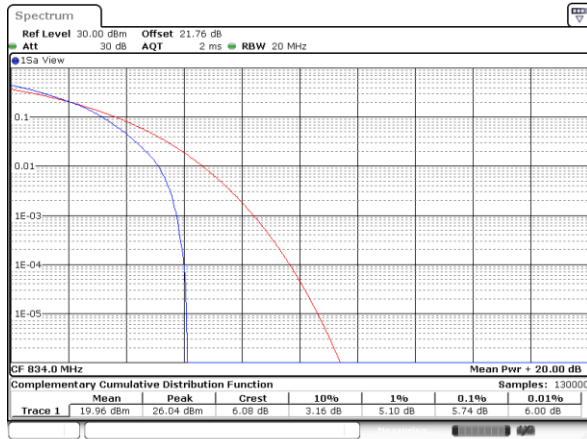
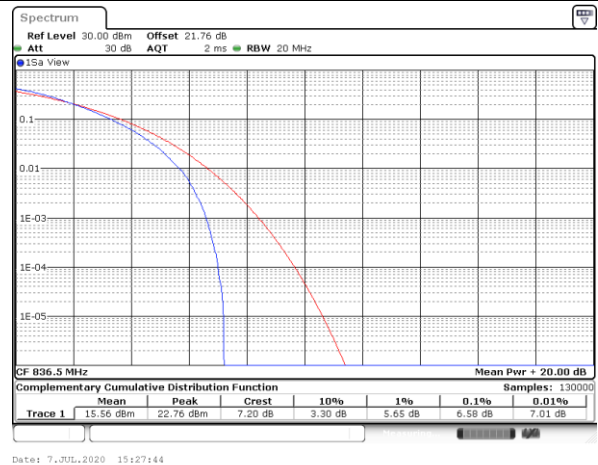
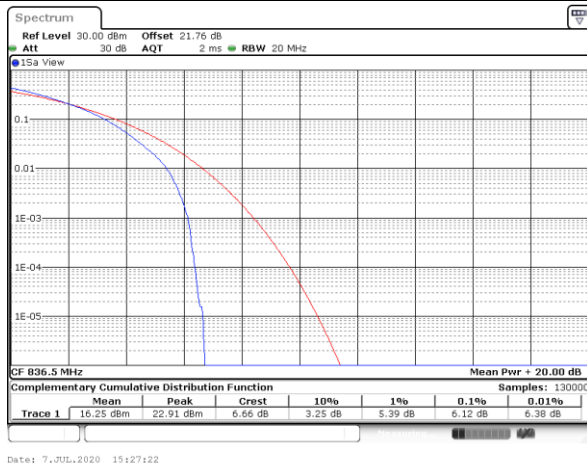
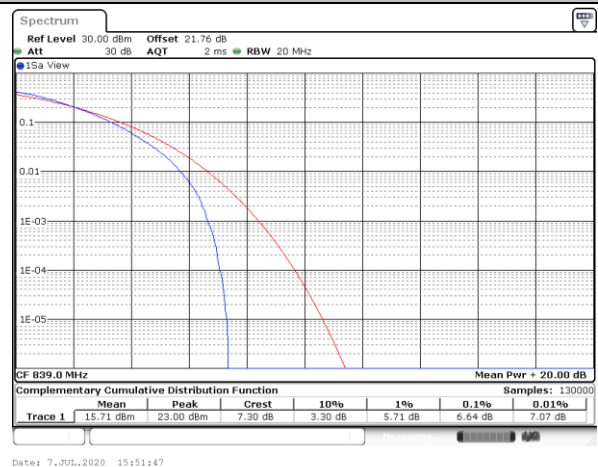
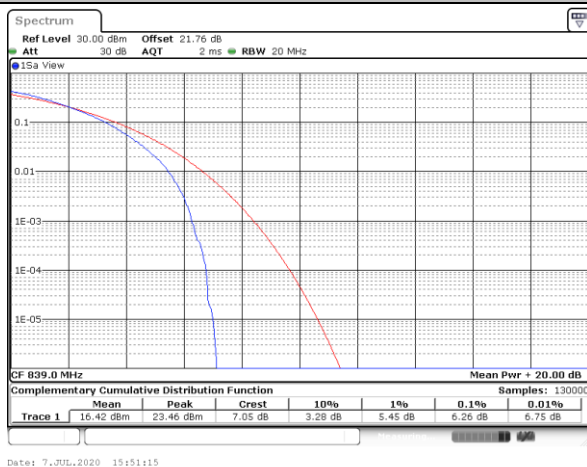


FR1 n5

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
Lowest CH	3.54	4.58	5.74	6.20	PASS
Middle CH	3.74	4.87	6.12	6.58	
Highest CH	3.77	4.93	6.26	6.64	
Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	7.19				PASS
Middle CH	7.51				
Highest CH	7.45				

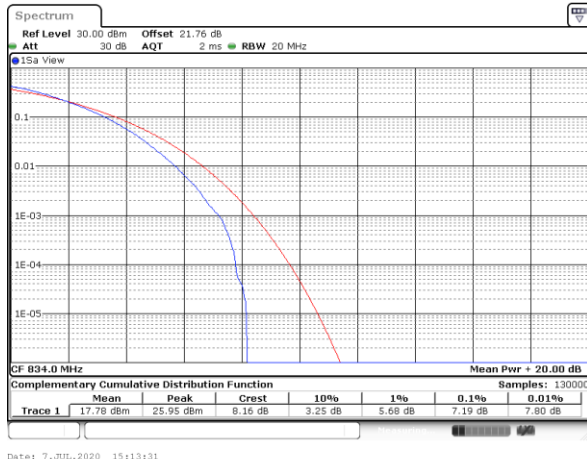
FR1 n5 / 20MHz / DFT-S OFDM
PI/2 BPSK
QPSK
Lowest Channel / Full RB
Lowest Channel / Full RB

Middle Channel / Full RB
Middle Channel / Full RB

Highest Channel / Full RB
Highest Channel / Full RB


FR1 n5 / 20MHz / DFT-S OFDM
16QAM
64QAM
Lowest Channel / Full RB
Lowest Channel / Full RB

Middle Channel / Full RB
Middle Channel / Full RB

Highest Channel / Full RB
Highest Channel / Full RB


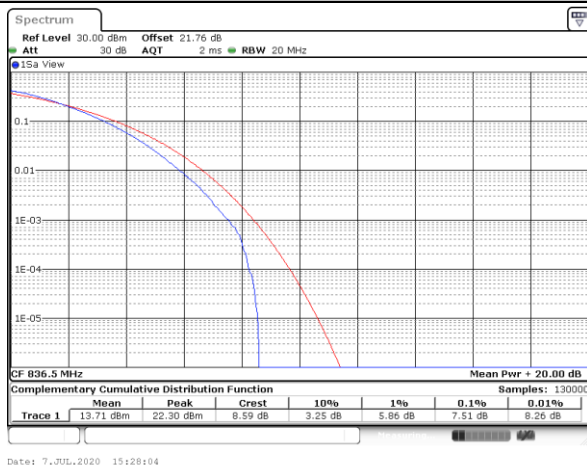
FR1 n5 / 20MHz / DFT-S OFDM

256QAM

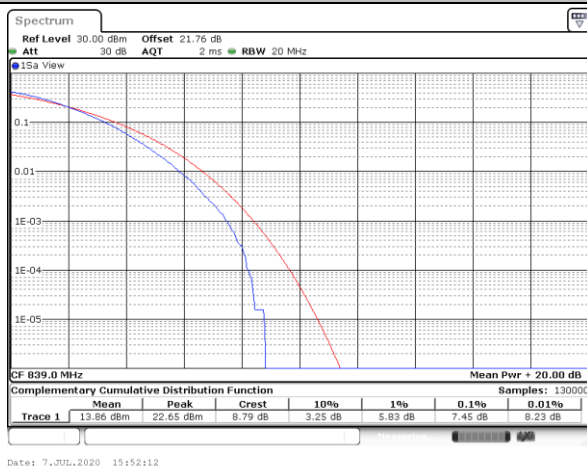
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB



**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	
Lowest CH	4.92		9.55		14.21		18.62	
Middle CH	4.95		9.49		14.30		18.82	
Highest CH	5.22		9.47		14.33		18.86	

Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.12	5.04	9.97	9.99	14.89	14.89	19.86	19.86
Middle CH	5.25	4.99	9.87	10.05	14.96	14.87	19.86	19.98
Highest CH	5.05	5.04	9.91	9.89	14.89	14.87	19.90	19.74

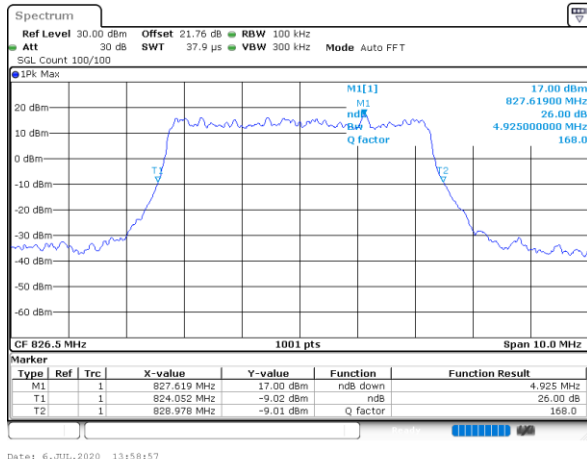
Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.07	5.05	9.97	9.95	14.93	14.96	19.74	19.94
Middle CH	5.14	5.04	10.03	9.71	14.84	14.89	19.94	19.78
Highest CH	5.18	5.13	10.09	10.05	14.93	14.87	19.94	19.94

Note: The CP-OFDM (worst case) is more wider bandwidth than the DFT-S OFDM's.

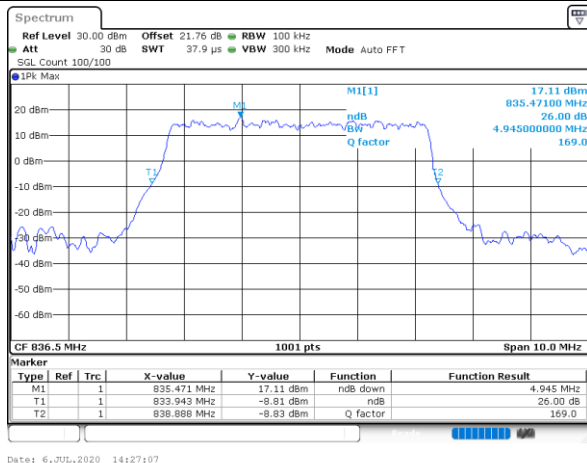
FR1 n5 / 5MHz / DFT-S OFDM

PI/2 BPSK

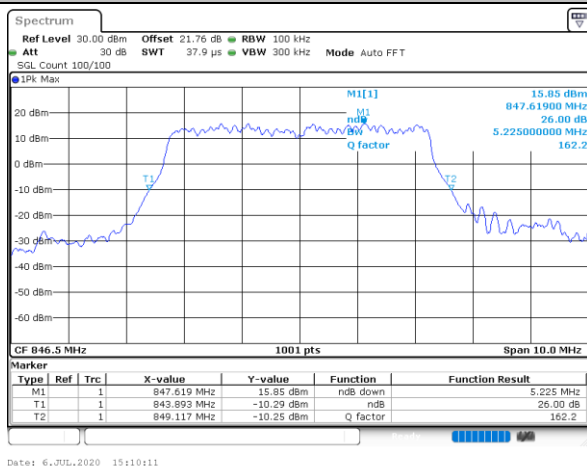
Lowest Channel



Middle Channel



Highest Channel

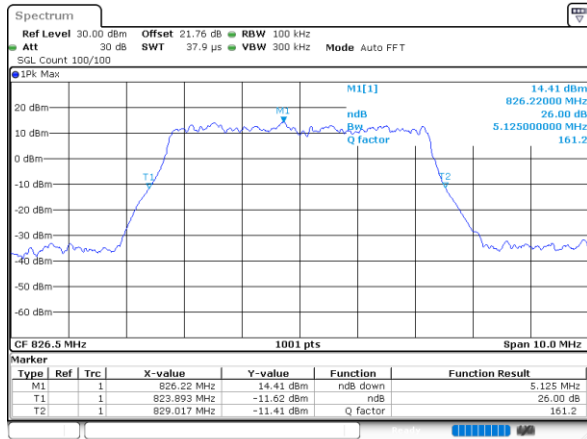




FR1 n5 / 5MHz / CP OFDM

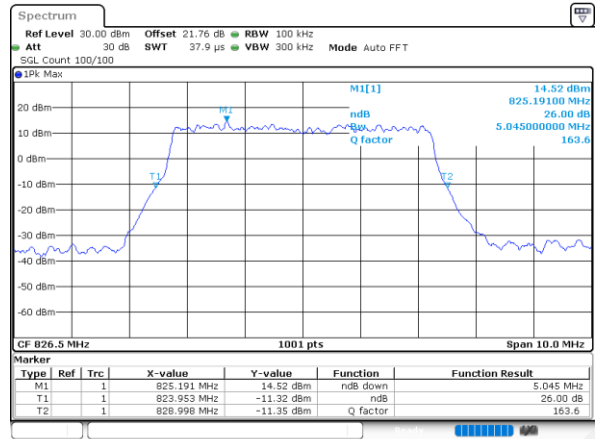
QPSK

Lowest Channel

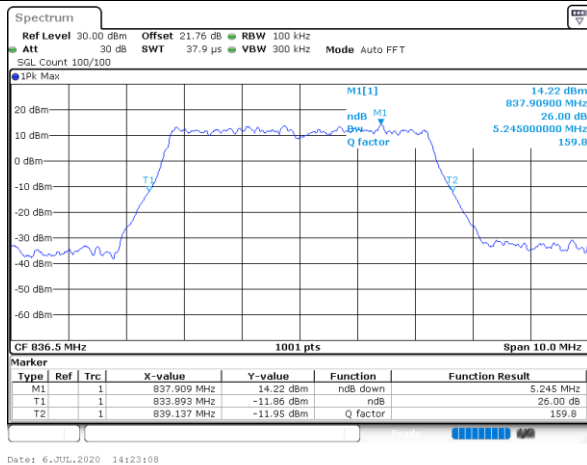


16QAM

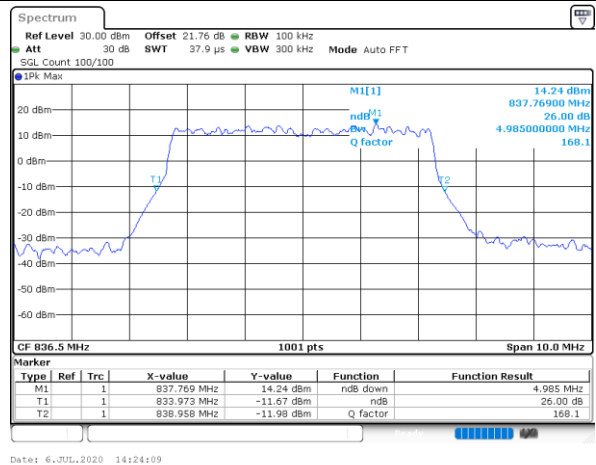
Lowest Channel



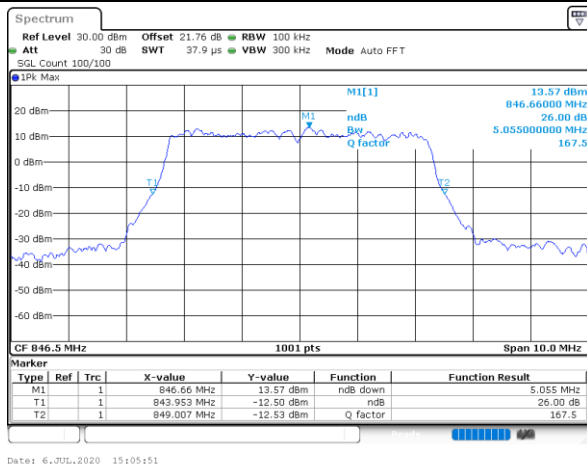
Middle Channel



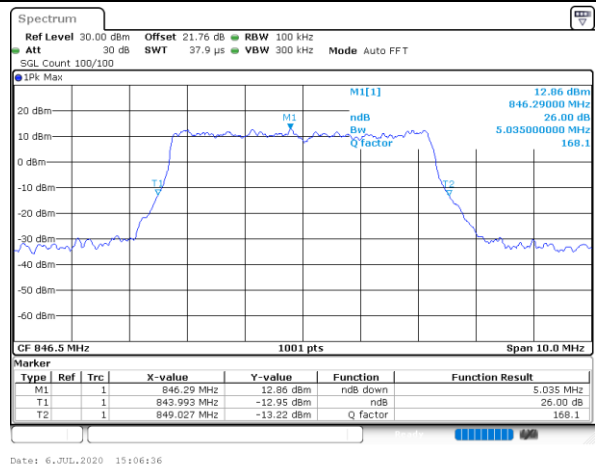
Middle Channel



Highest Channel



Highest Channel

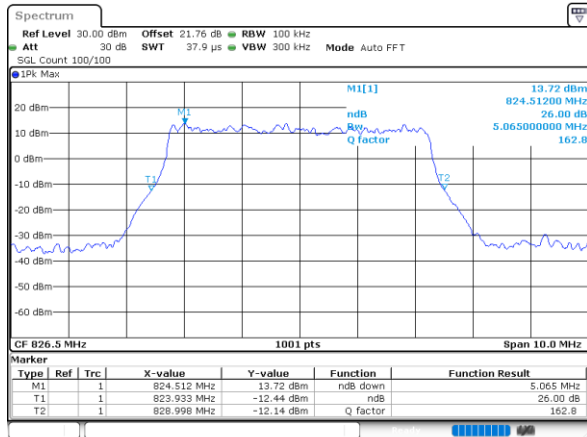




FR1 n5 / 5MHz / CP OFDM

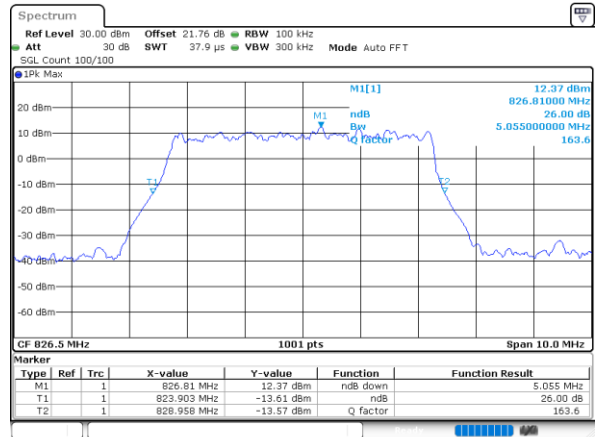
64QAM

Lowest Channel

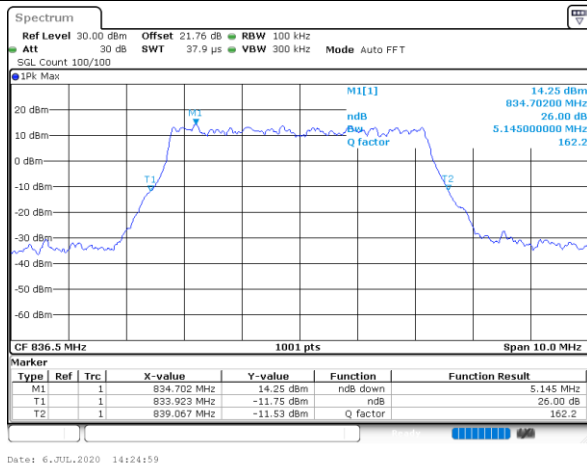


256QAM

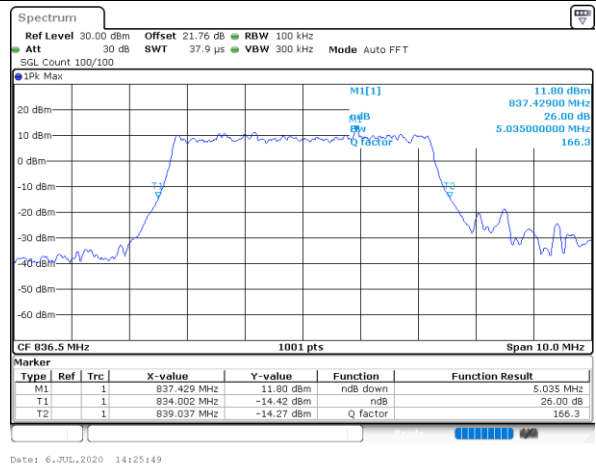
Lowest Channel



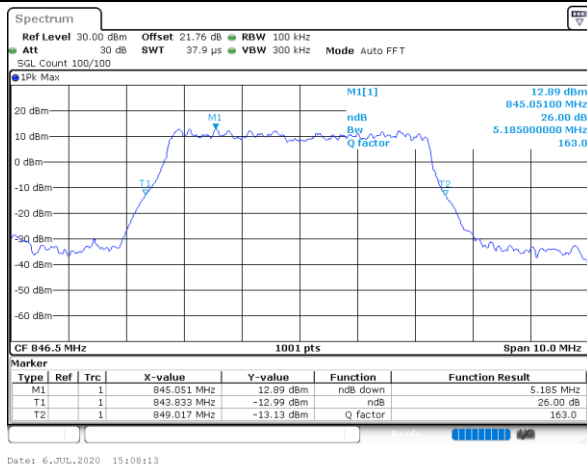
Middle Channel



Middle Channel



Highest Channel



Highest Channel

