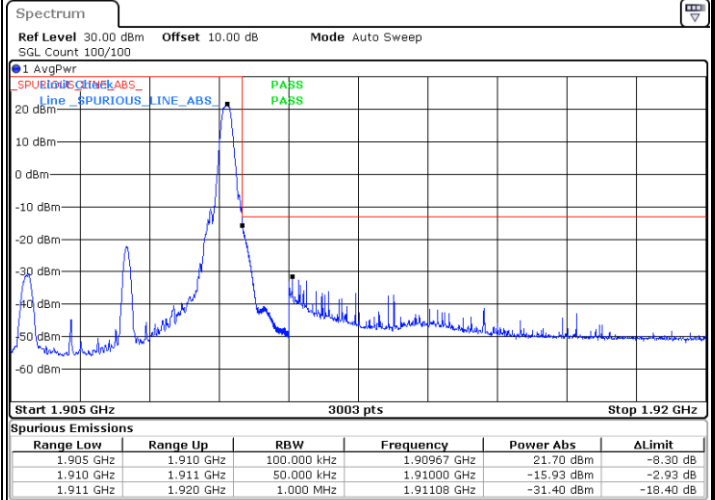
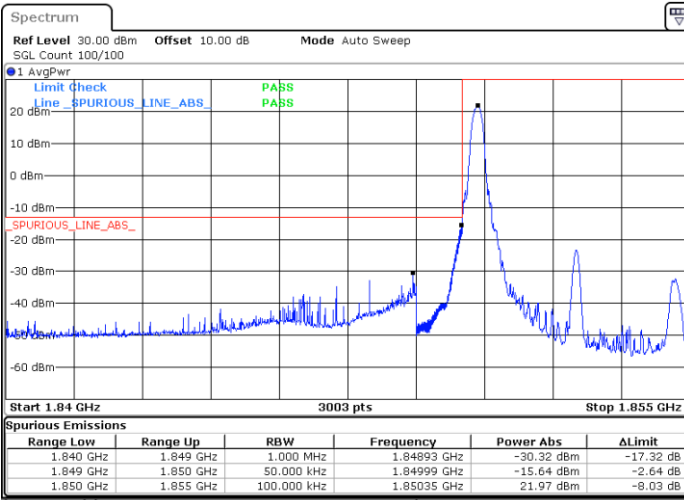




5G NR n2 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

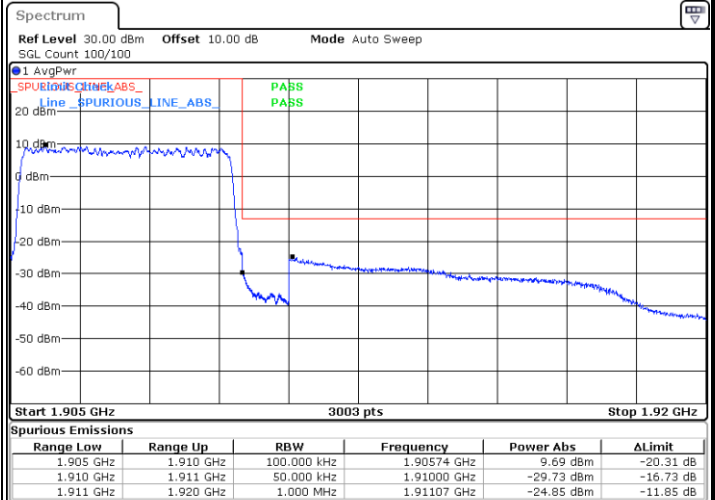
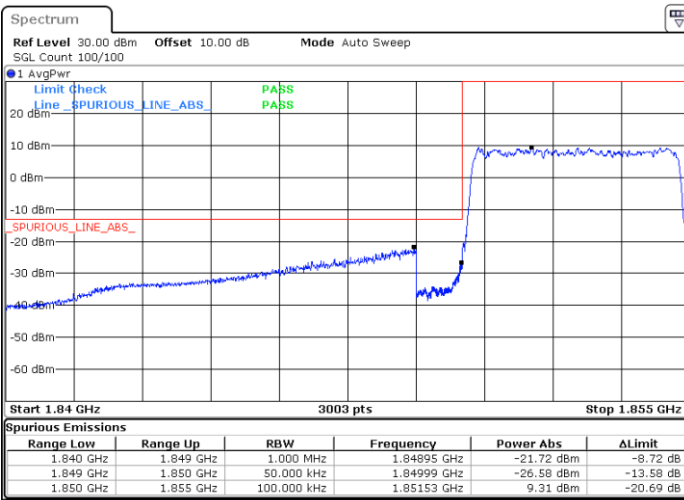


Date: 3 SEP.2020 21:48:38

Date: 3 SEP.2020 21:52:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 21:28:51

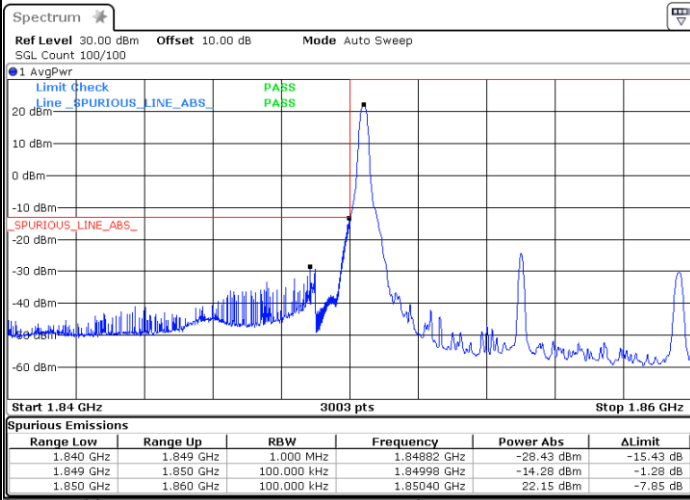
Date: 3 SEP.2020 21:50:47



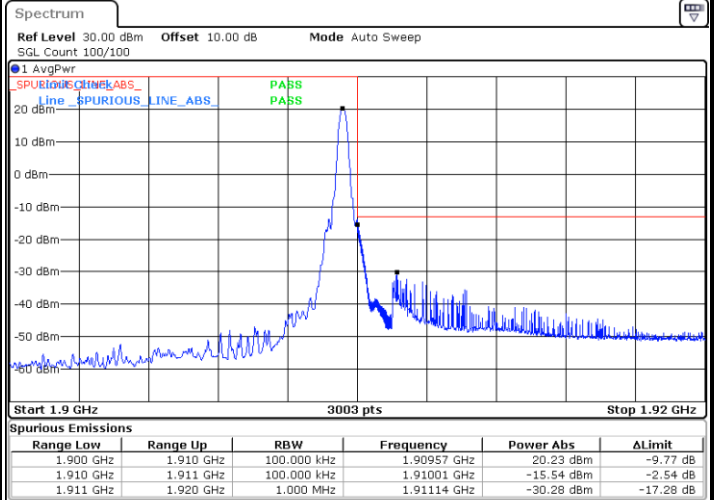
5G NR n2 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



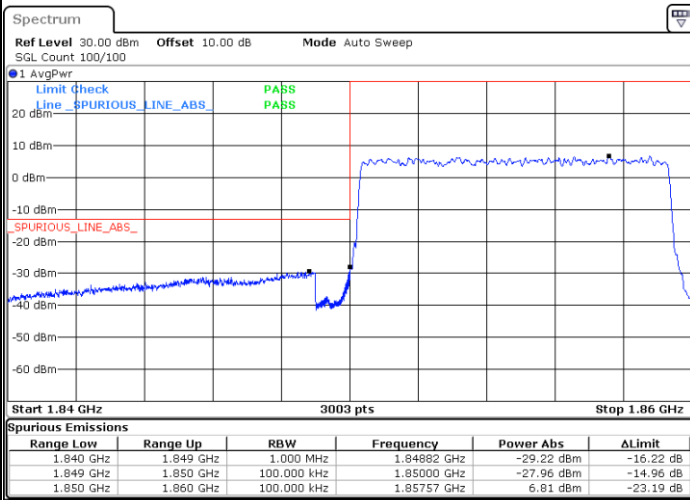
Date: 3 SEP.2020 22:32:34



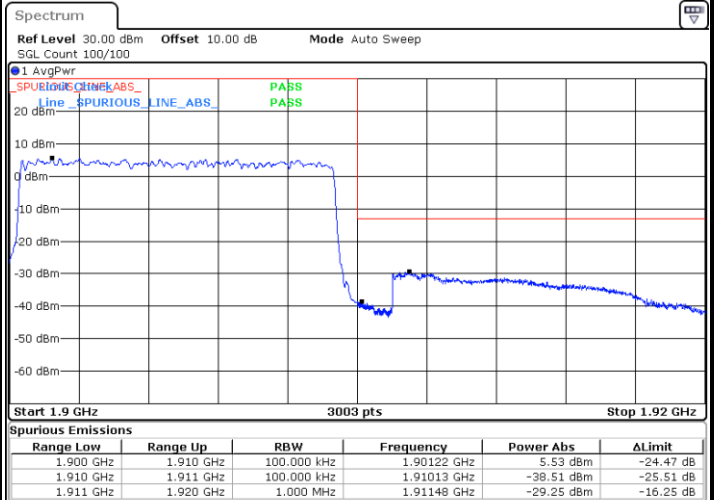
Date: 3 SEP.2020 22:40:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 21:55:31



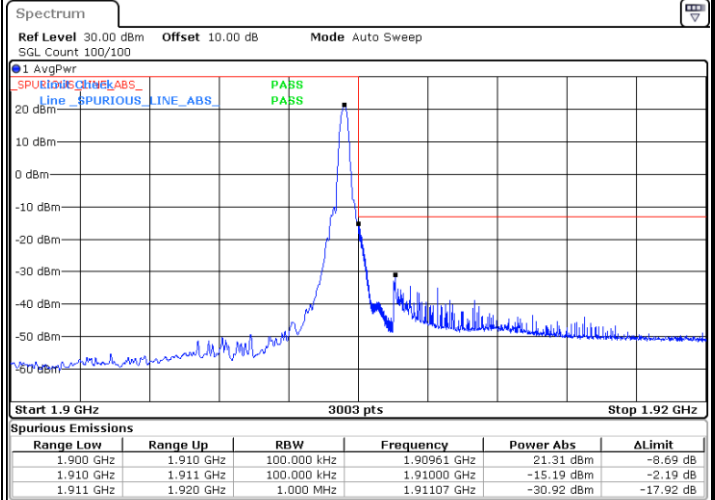
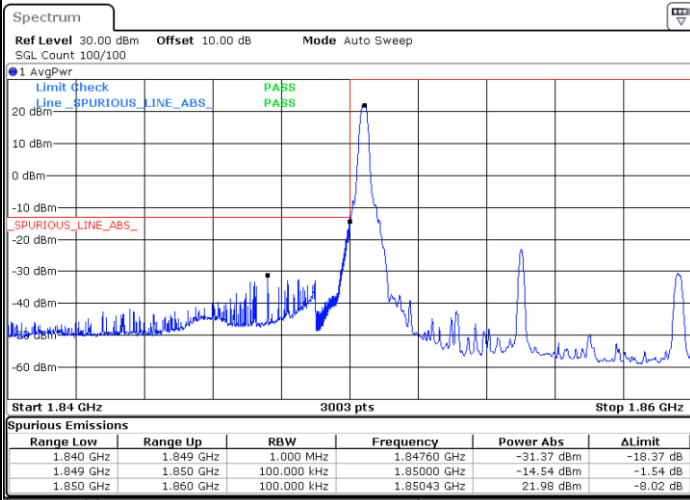
Date: 3 SEP.2020 22:38:44



5G NR n2 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

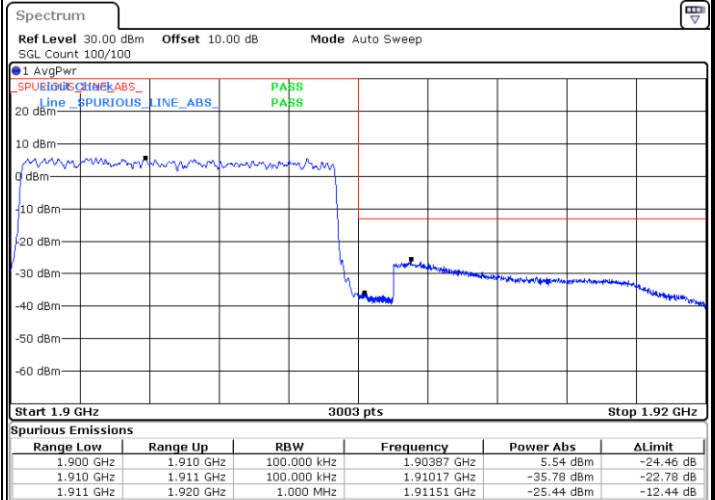
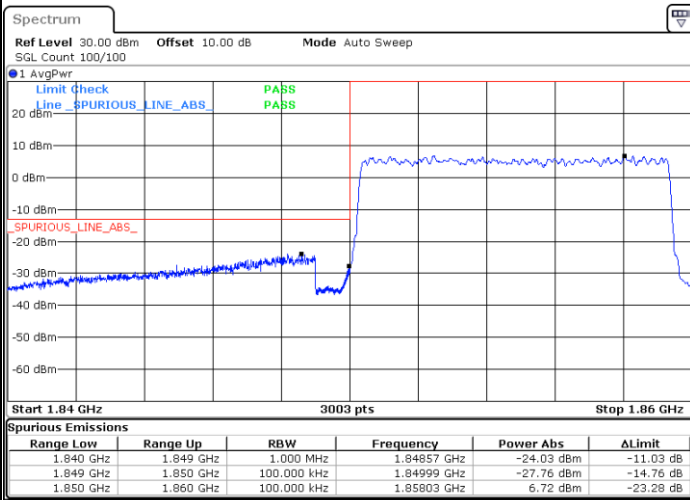


Date: 3 SEP.2020 22:34:20

Date: 3 SEP.2020 22:40:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 21:55:44

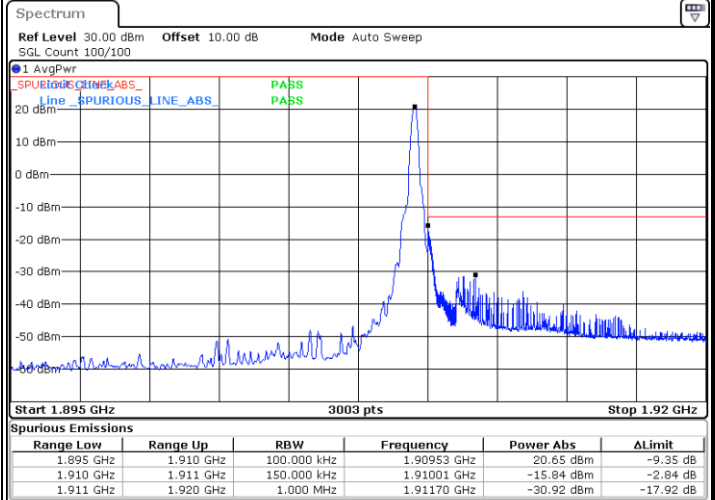
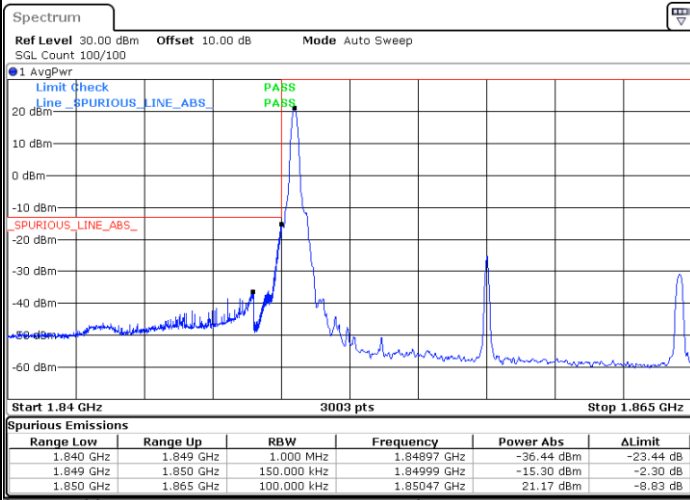
Date: 3 SEP.2020 22:38:55



5G NR n2 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

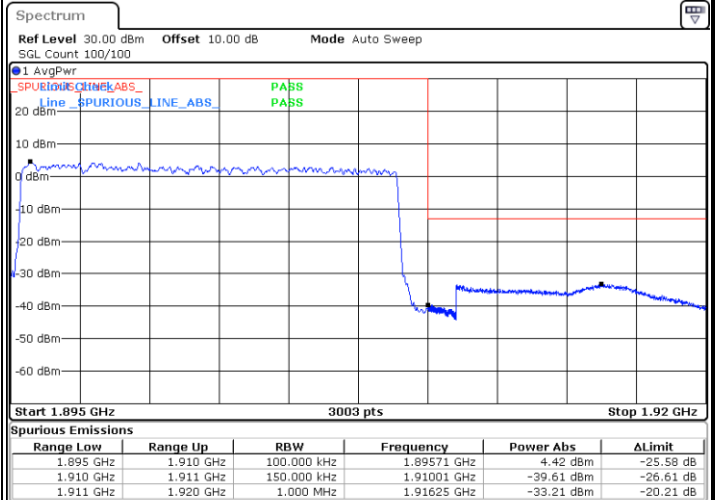
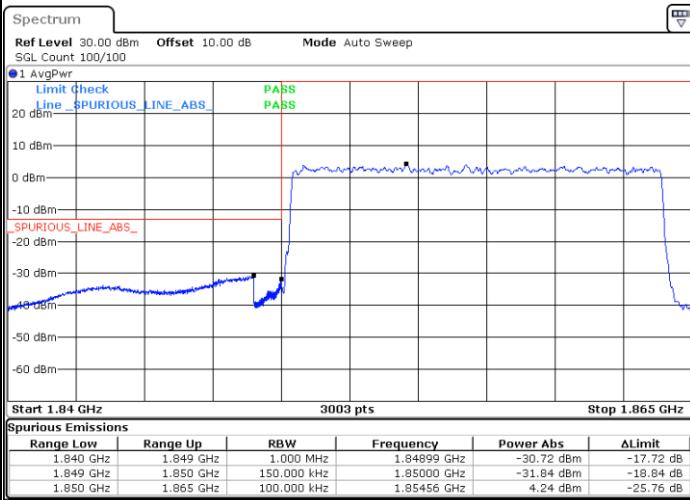


Date: 3 SEP.2020 22:43:03

Date: 3 SEP.2020 22:45:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 22:42:00

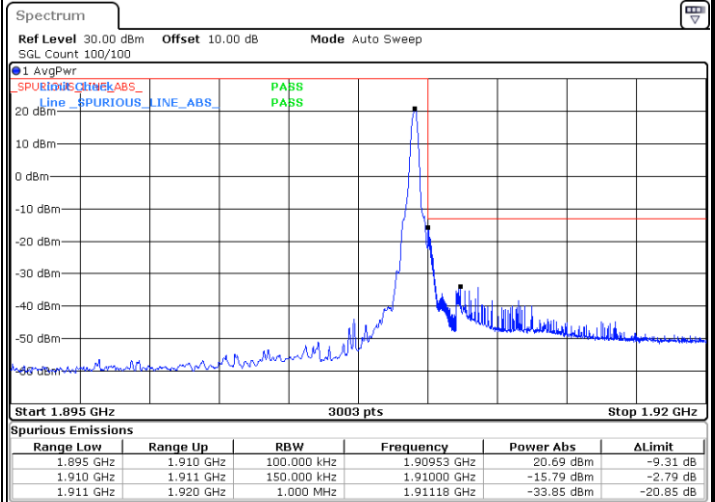
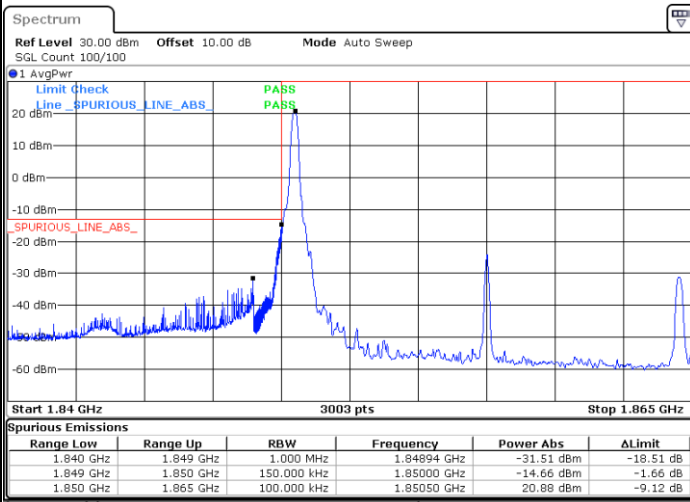
Date: 3 SEP.2020 22:44:30



5G NR n2 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

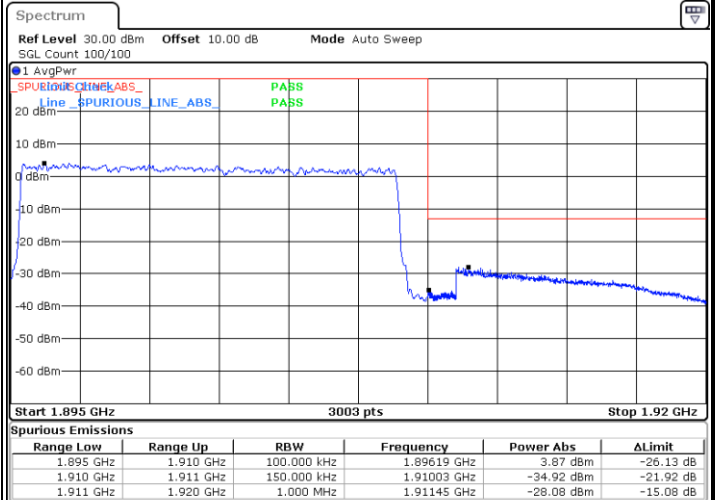
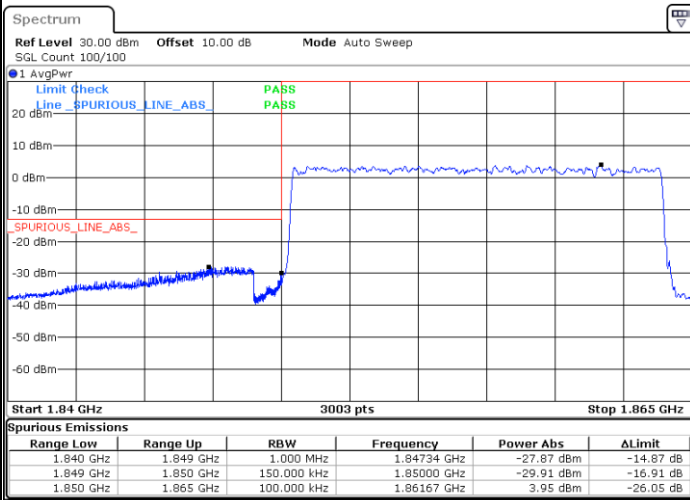


Date: 3 SEP.2020 22:43:15

Date: 3 SEP.2020 22:46:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 22:42:14

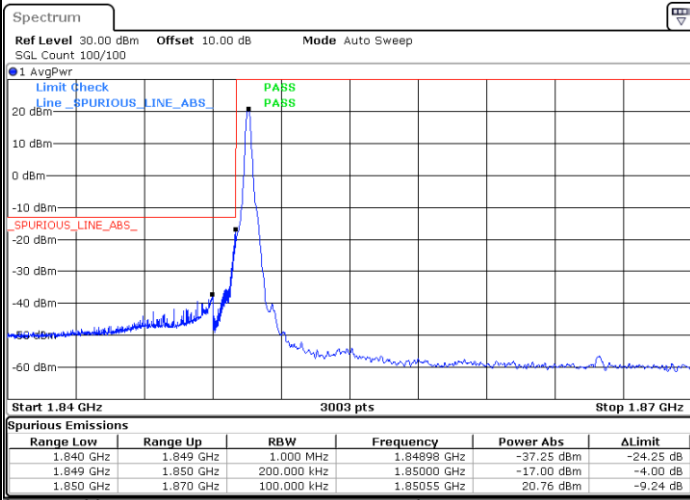
Date: 3 SEP.2020 22:44:54



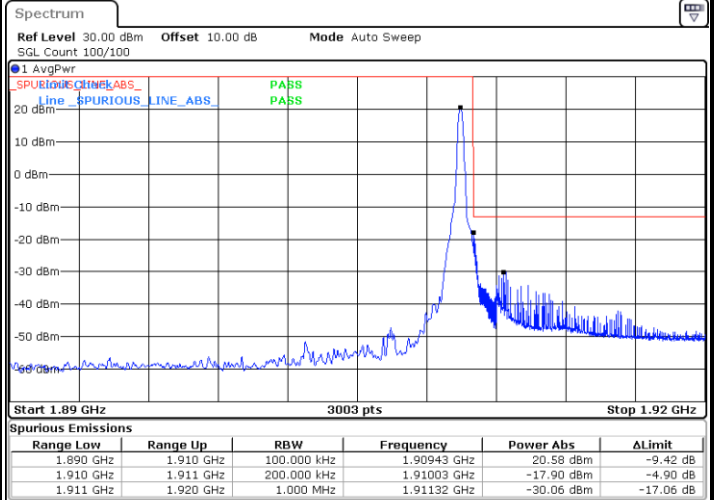
5G NR n2 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



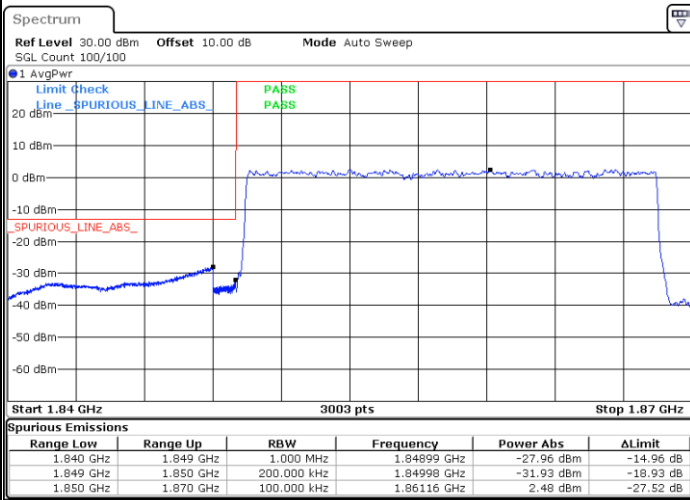
Date: 3 SEP.2020 22:48:36



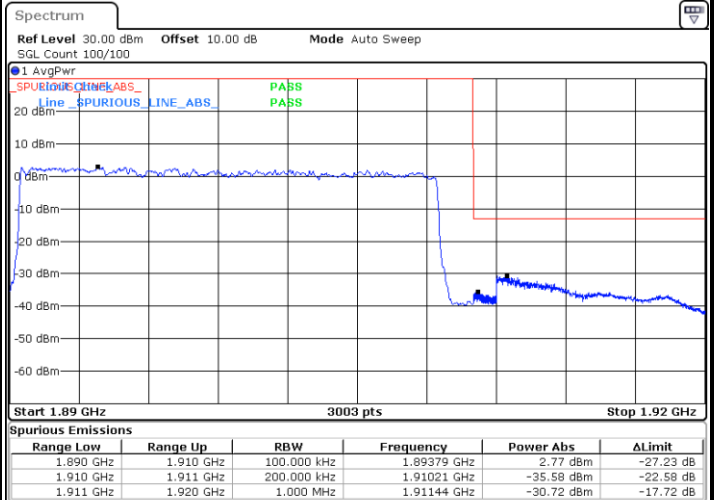
Date: 3 SEP.2020 22:50:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 22:47:31



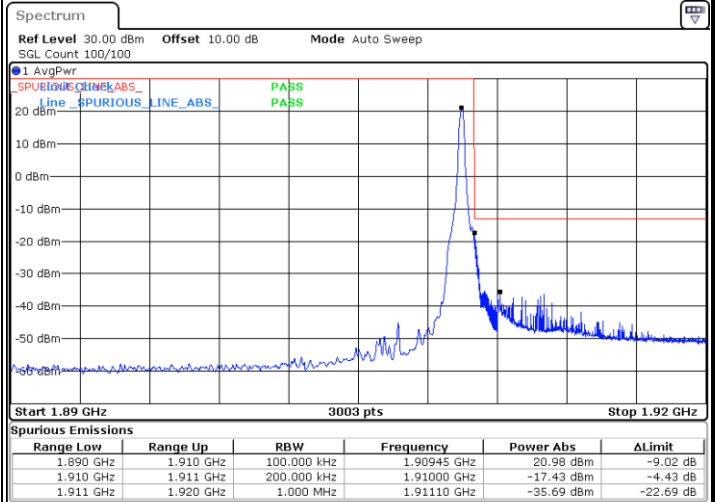
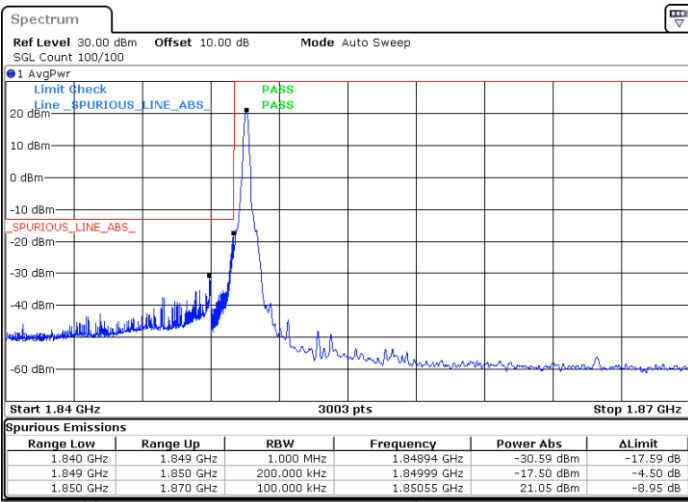
Date: 3 SEP.2020 22:49:45



5G NR n2 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

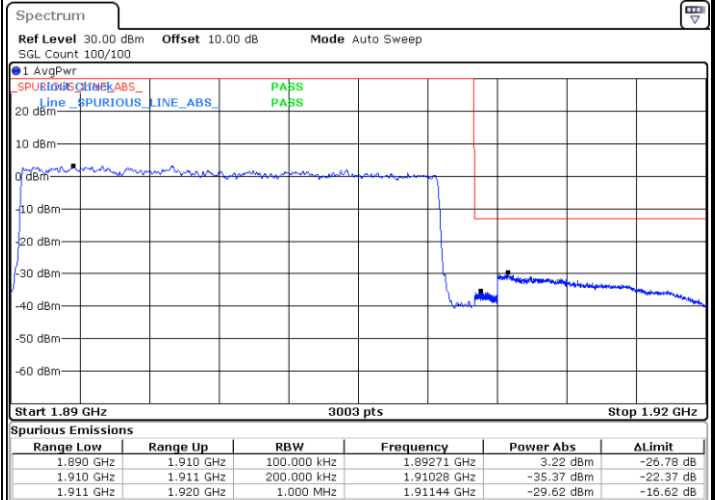
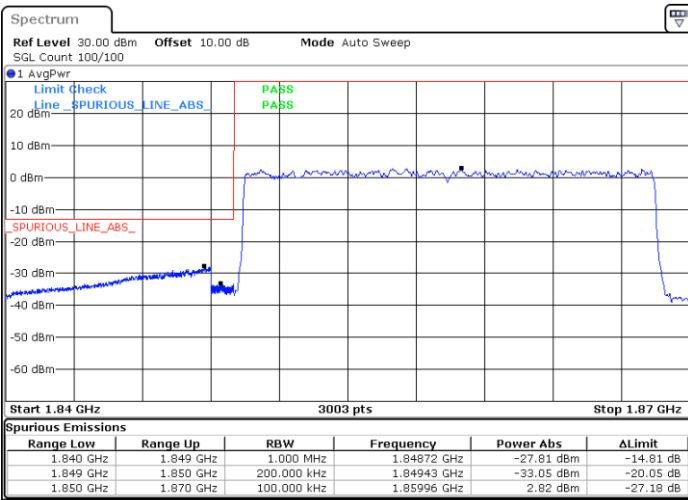


Date: 3 SEP.2020 22:48:46

Date: 3 SEP.2020 22:50:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

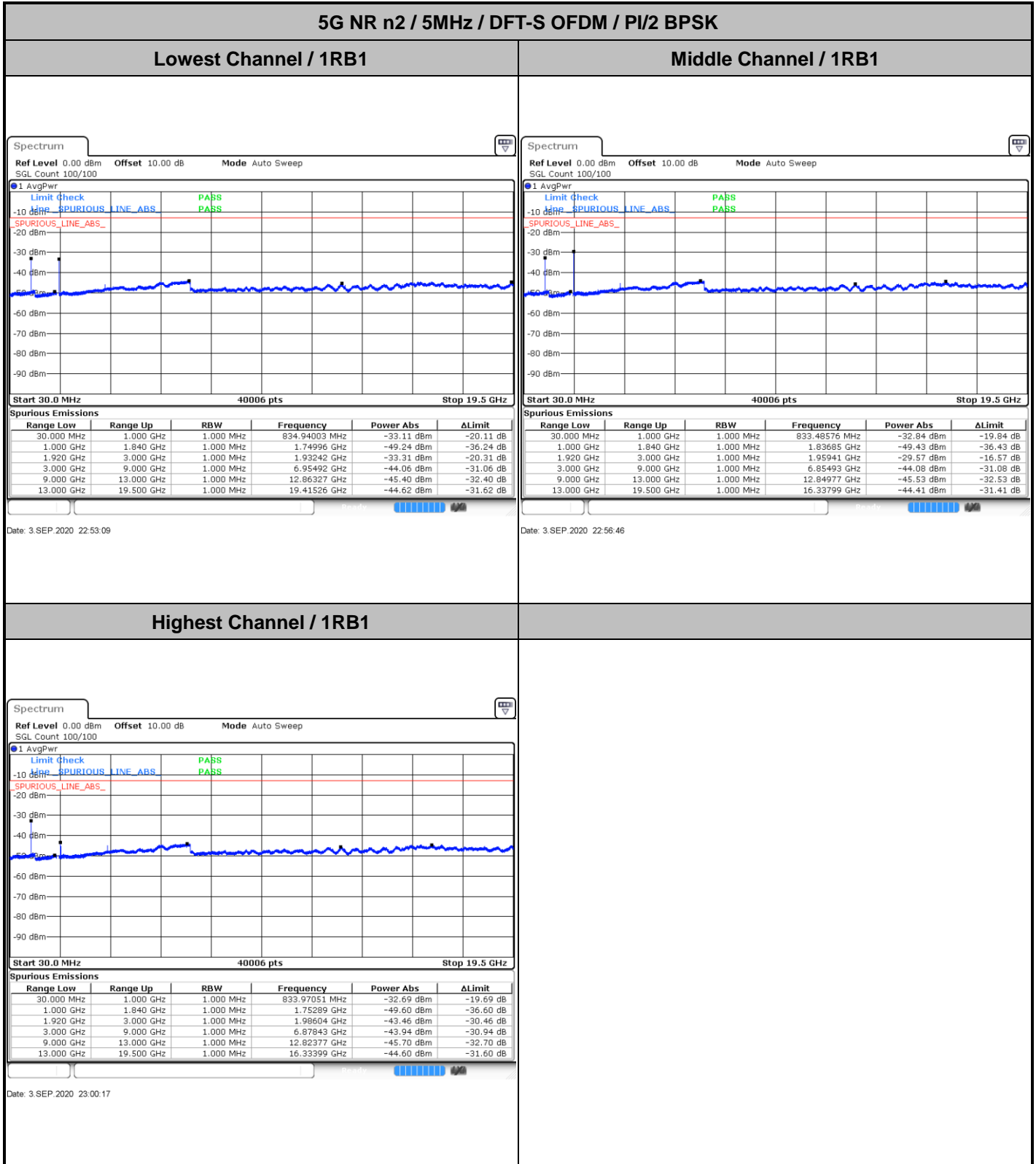


Date: 3 SEP.2020 22:47:41

Date: 3 SEP.2020 22:49:54



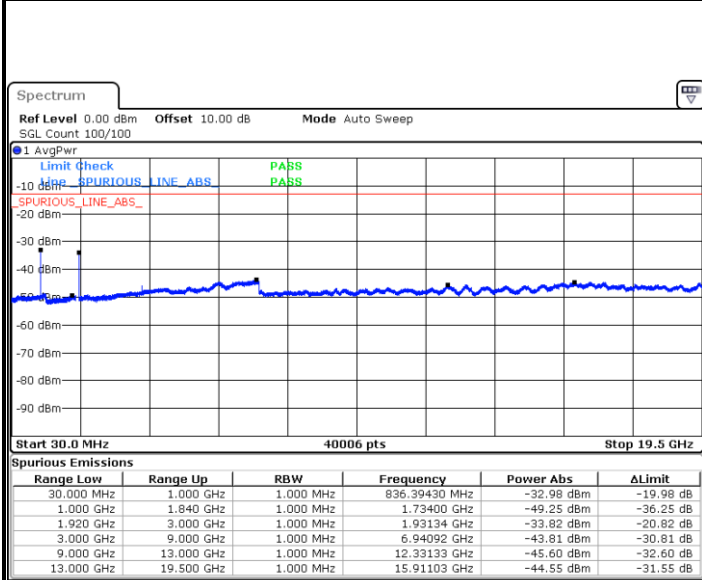
Conducted Spurious Emission





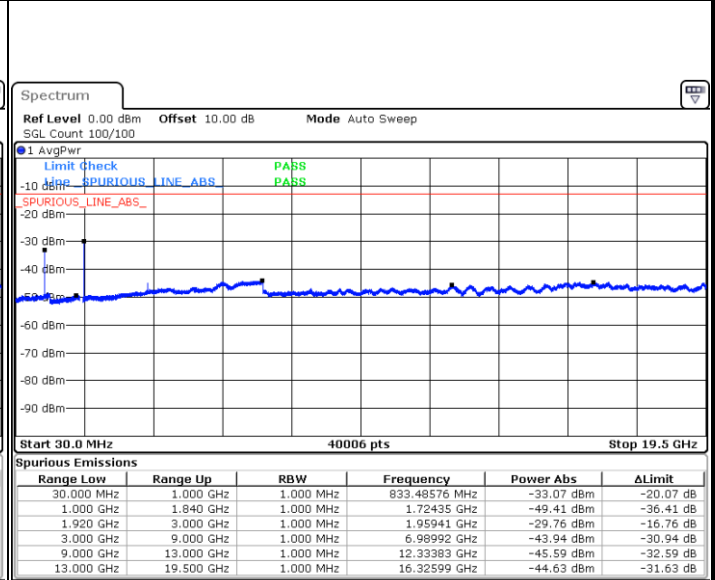
5G NR n2 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



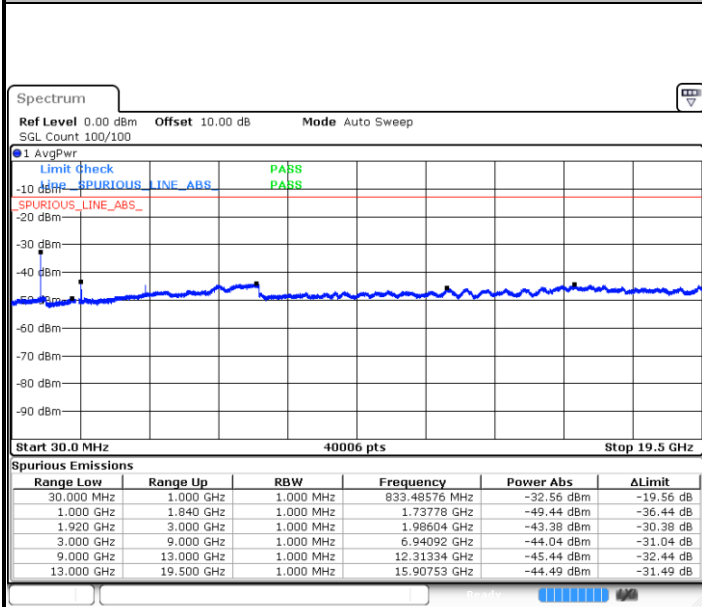
Date: 3 SEP.2020 22:53:44

Middle Channel / 1RB1



Date: 3 SEP.2020 22:57:25

Highest Channel / 1RB1



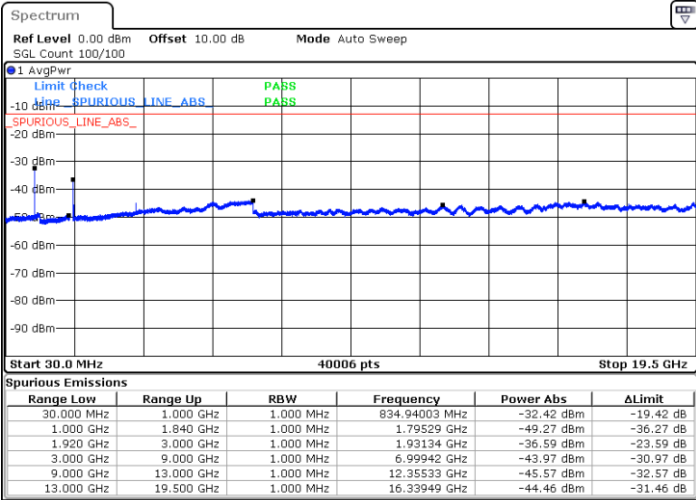
Date: 3 SEP.2020 23:01:39



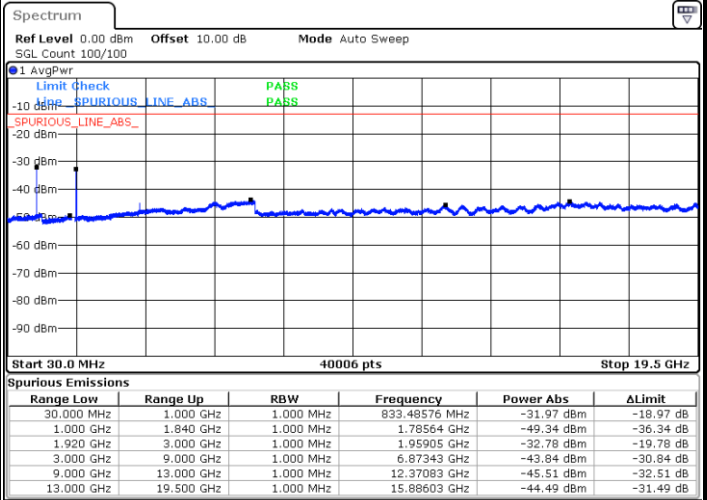
5G NR n2 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

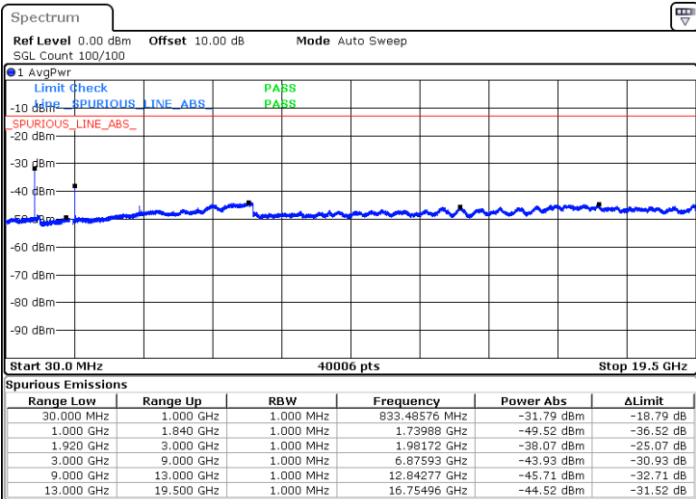


Date: 3 SEP.2020 23:05:39



Date: 3 SEP.2020 23:09:47

Highest Channel / 1RB1



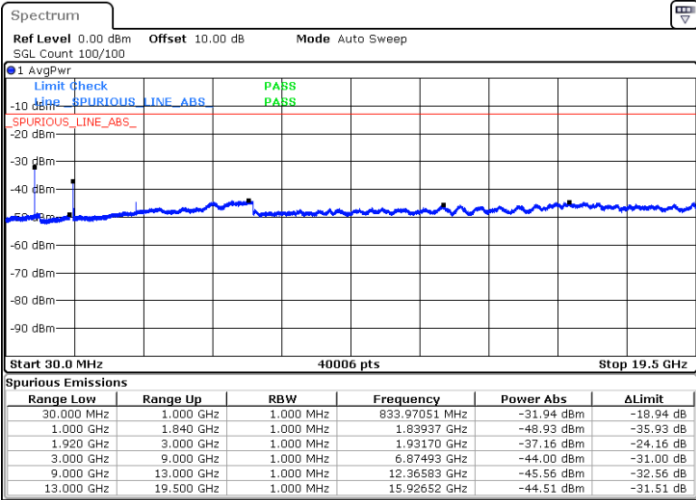
Date: 3 SEP.2020 23:13:01



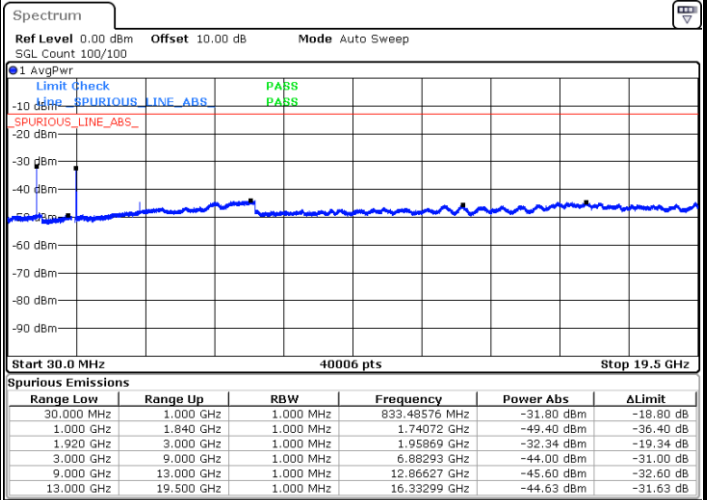
5G NR n2 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

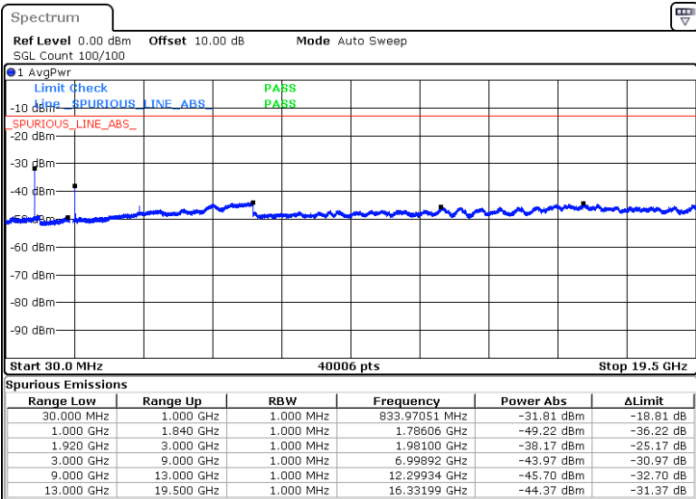


Date: 3 SEP.2020 23:07:06



Date: 3 SEP.2020 23:10:22

Highest Channel / 1RB1



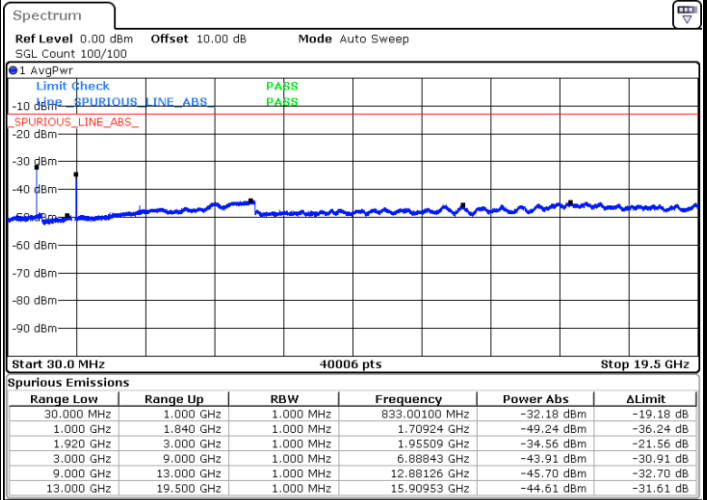
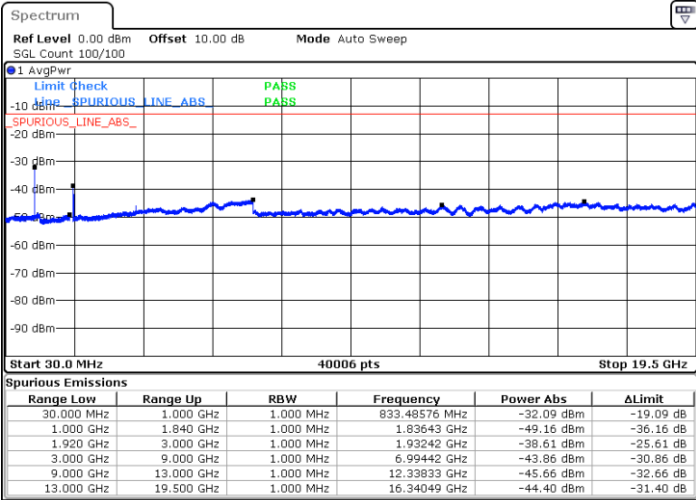
Date: 3 SEP.2020 23:13:40



5G NR n2 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1

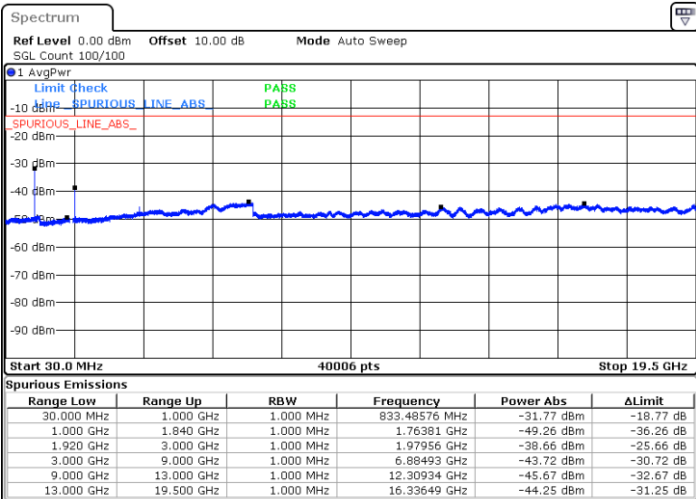
Middle Channel / 1RB1



Date: 3 SEP.2020 23:16:32

Date: 3 SEP.2020 23:19:52

Highest Channel / 1RB1

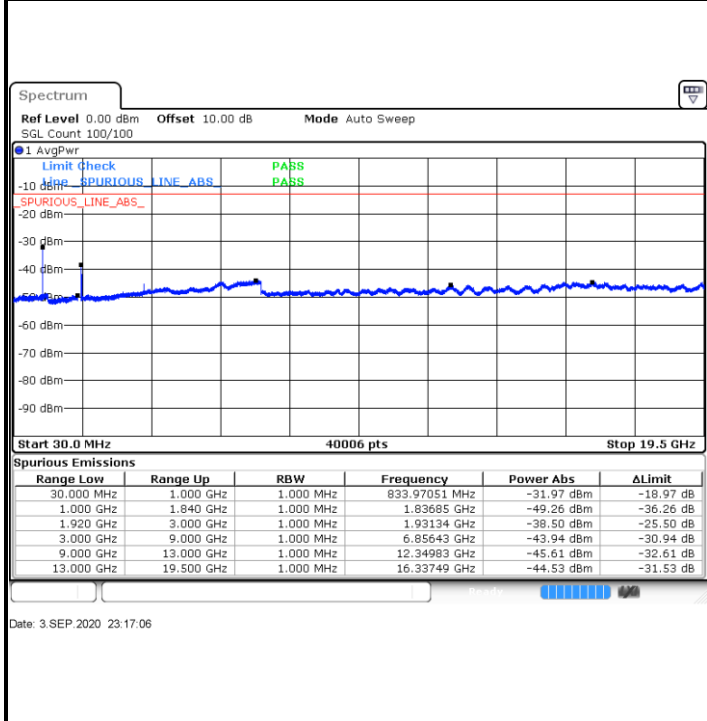


Date: 3 SEP.2020 23:23:48

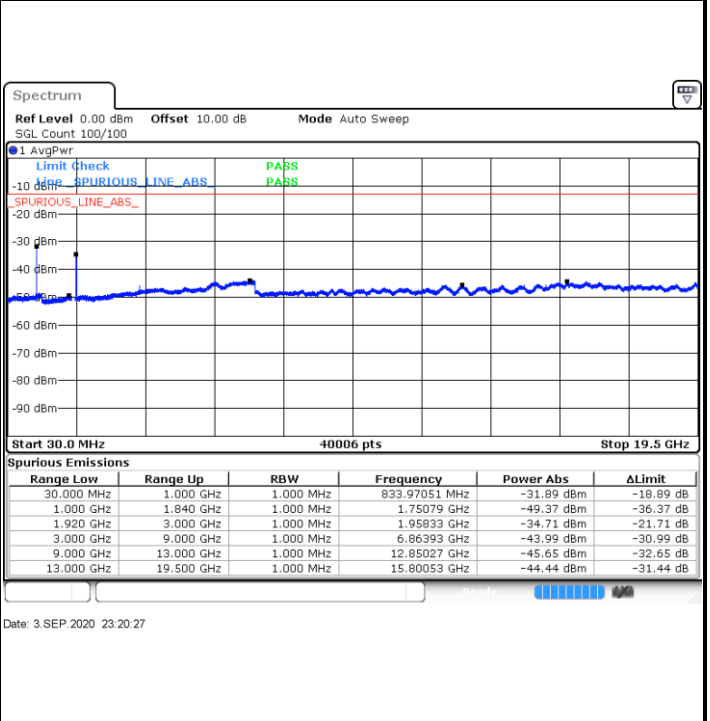


5G NR n2 / 15MHz / DFT-S OFDM / QPSK

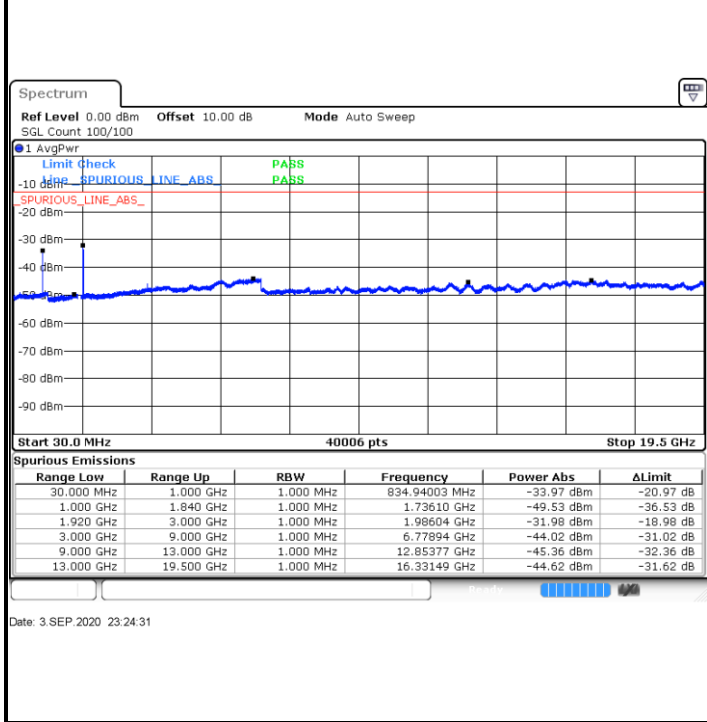
Lowest Channel / 1RB1



Middle Channel / 1RB1



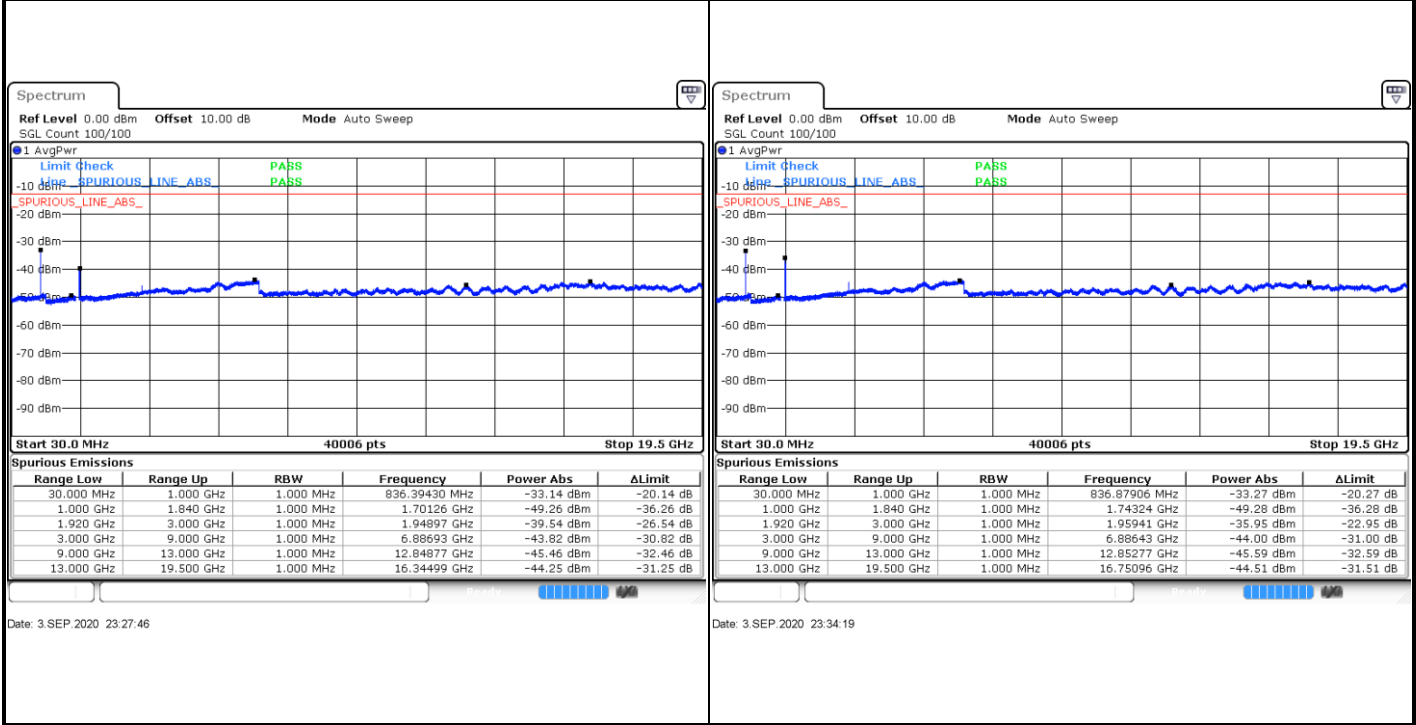
Highest Channel / 1RB1



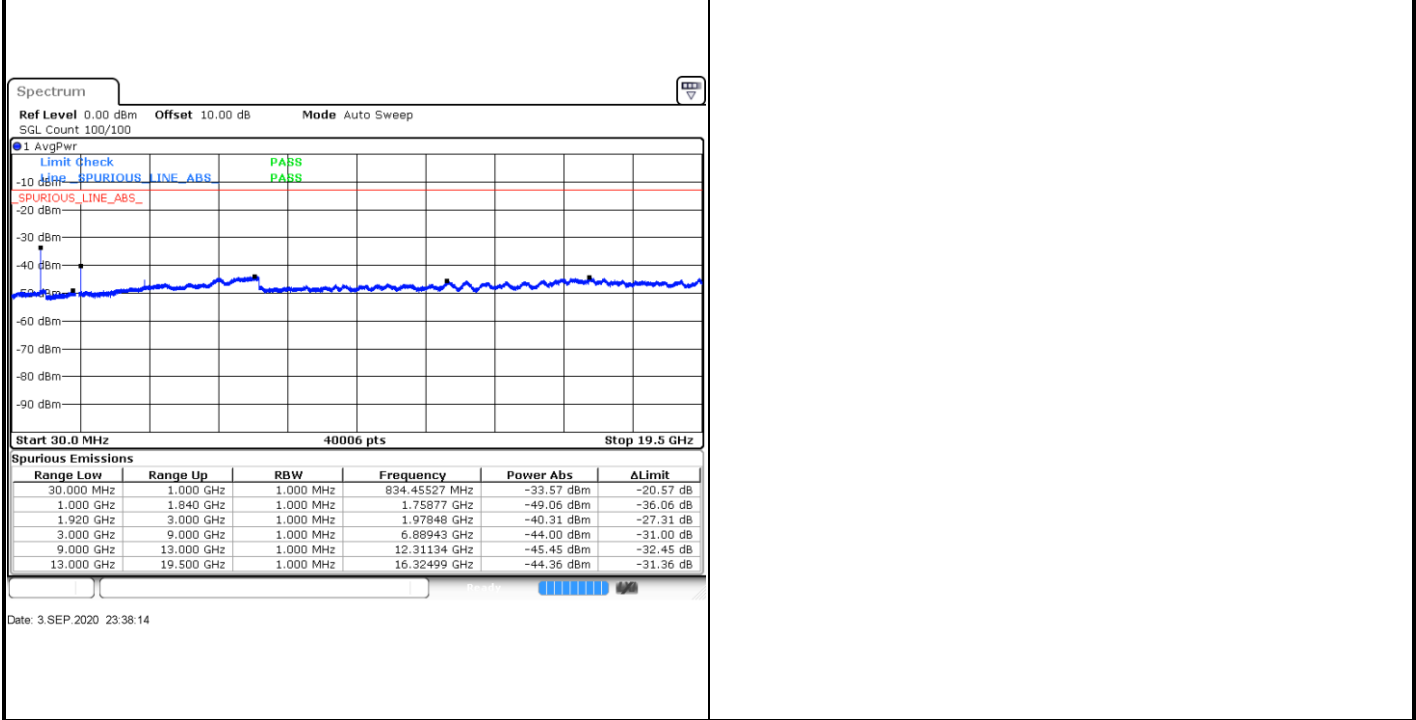


5G NR n2 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB1 **Middle Channel / 1RB1**



Highest Channel / 1RB1

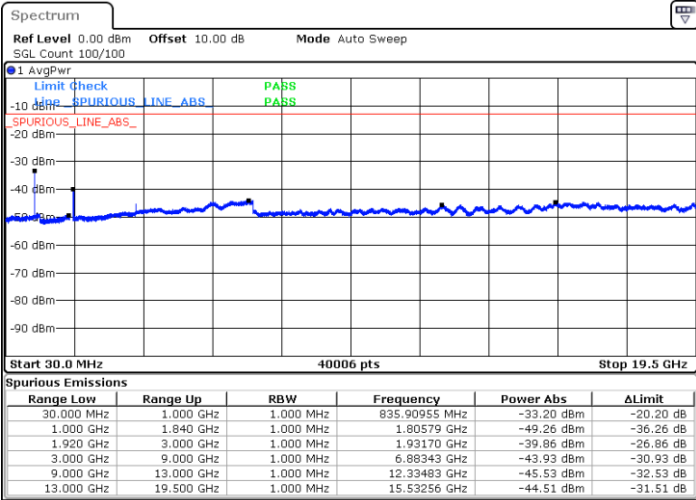




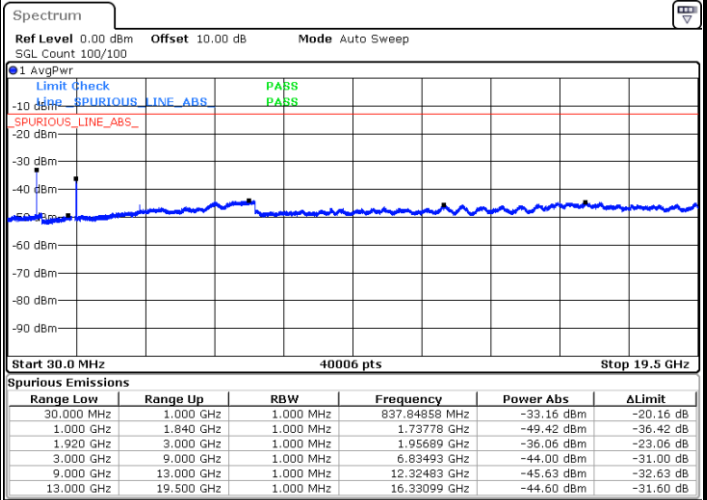
5G NR n2 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

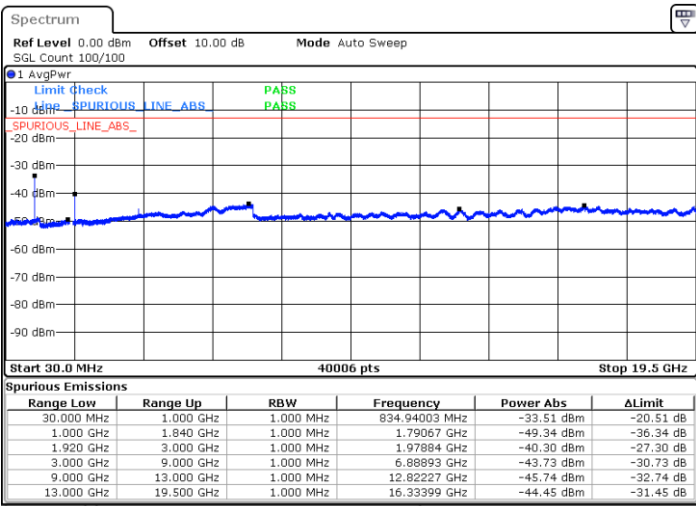


Date: 3 SEP.2020 23:28:22



Date: 3 SEP.2020 23:34:55

Highest Channel / 1RB1



Date: 3 SEP.2020 23:38:47



Frequency Stability

Test Conditions		5G NR n2 (PI/2BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR EN_DC_2A-n5A

Peak-to-Average Ratio

Mode	5G NR n5+2A / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Lowest CH	3.48	4.26	PASS
Middle CH	3.48	4.35	
Highest CH	3.51	4.41	
Mode	5G NR n5+2A / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	1 RB0	1 RB0	Result
Lowest CH	3.91	3.65	PASS
Middle CH	4.03	3.71	
Highest CH	4.00	3.74	



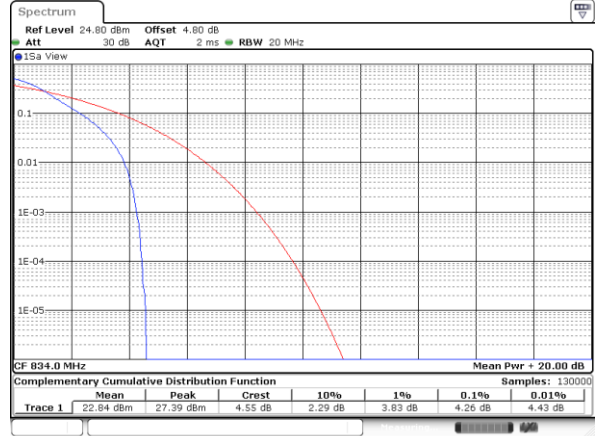
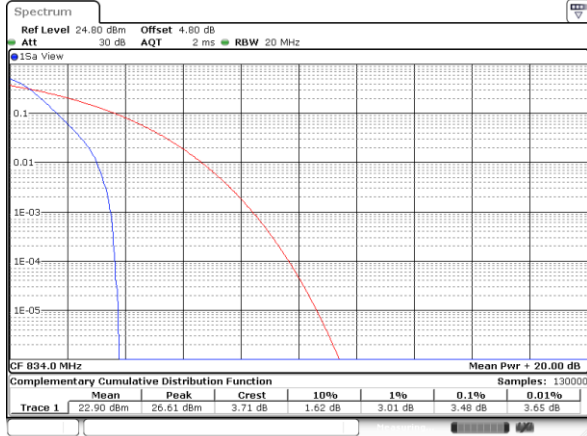
5G NR n5+2A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

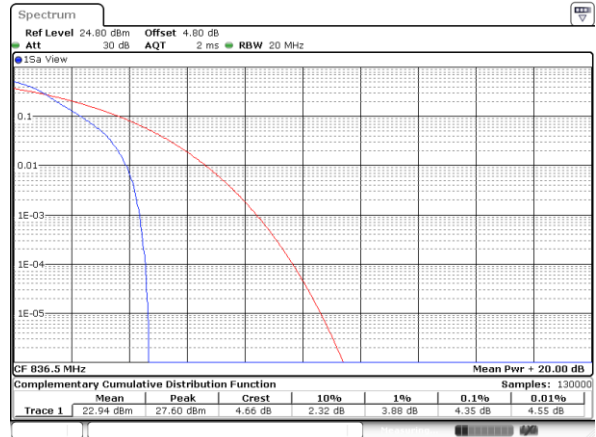
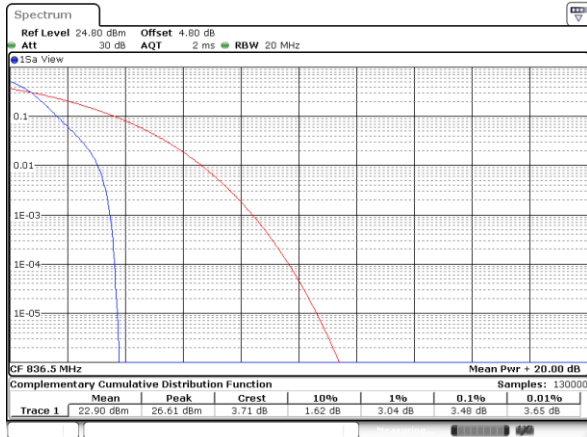


Date: 3 SEP 2020 16:50:57

Date: 3 SEP 2020 16:52:01

Middle Channel / Full RB

Middle Channel / Full RB

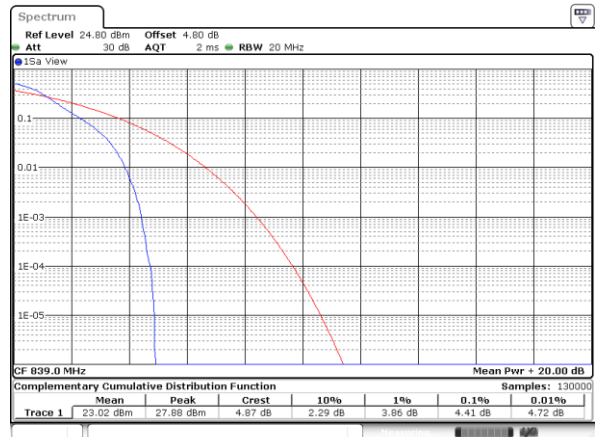
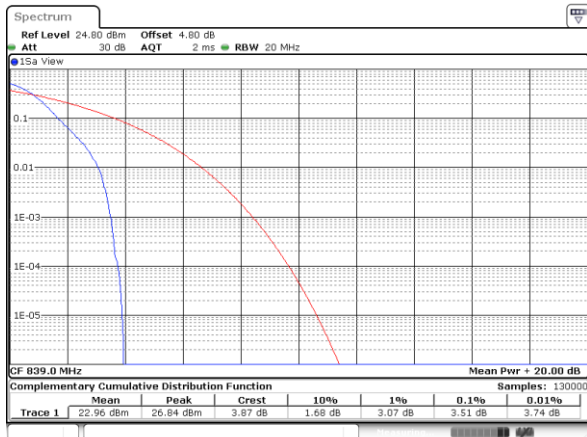


Date: 3 SEP 2020 17:10:34

Date: 3 SEP 2020 17:10:04

Highest Channel / Full RB

Highest Channel / Full RB



Date: 3 SEP 2020 17:11:29

Date: 3 SEP 2020 17:13:21



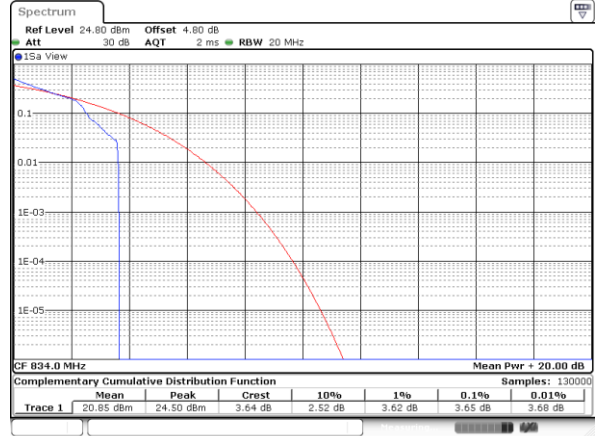
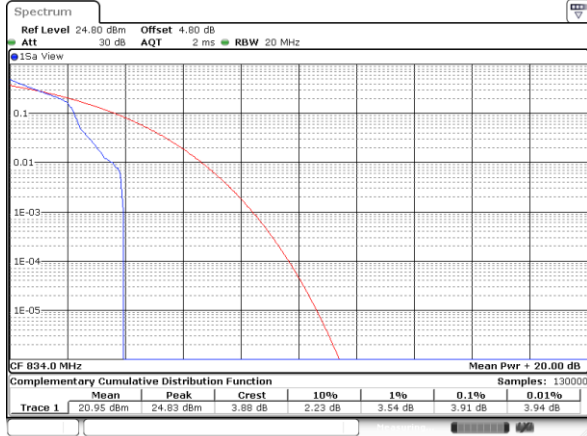
5G NR n5+2A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RB0

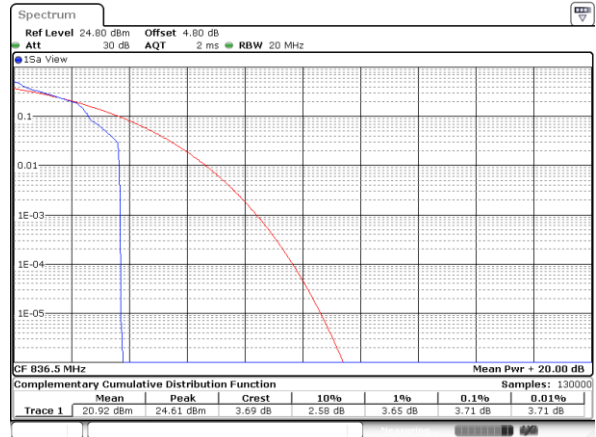
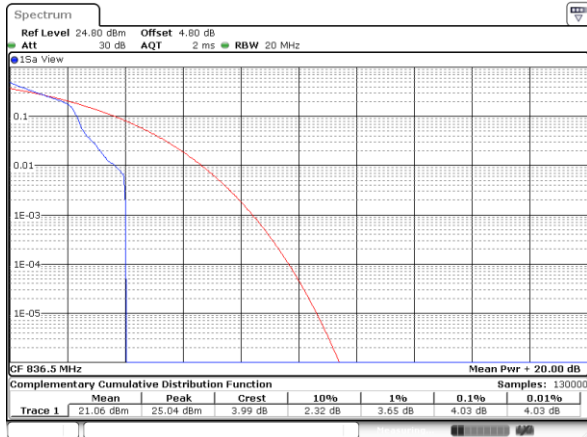


Date: 3 SEP 2020 17:03:49

Date: 3 SEP 2020 17:02:37

Middle Channel / 1RB0

Middle Channel / 1RB0

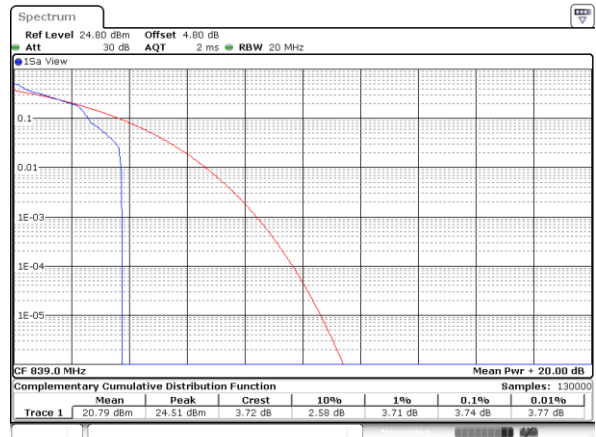
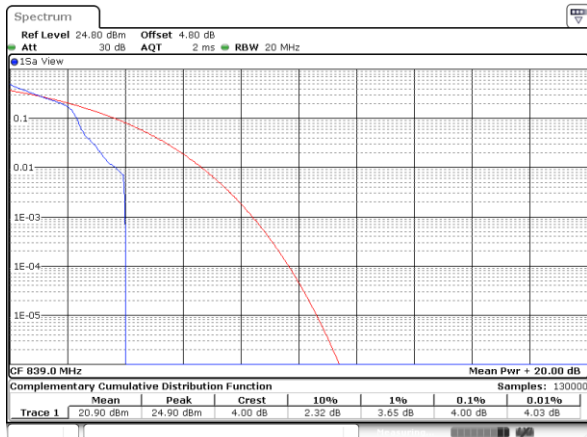


Date: 3 SEP 2020 17:05:10

Date: 3 SEP 2020 17:05:45

Highest Channel / 1RB0

Highest Channel / 1RB0



Date: 3 SEP 2020 17:24:13

Date: 3 SEP 2020 17:24:48



26dB Bandwidth

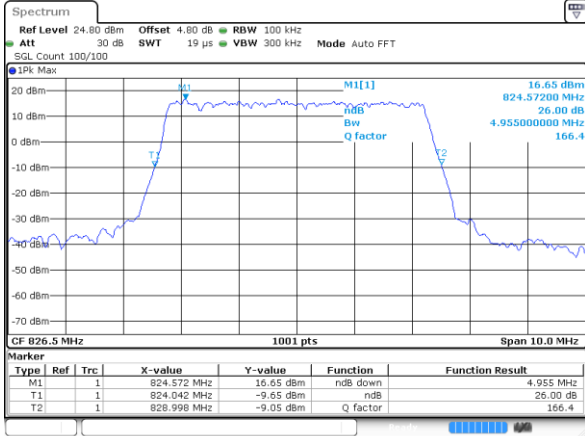
Mode	5G NR n5+2A : 26dB BW(MHz) / DFT-S OFDM							
	5MHz		10MHz		15MHz		20MHz	
BW								
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Lowest CH	4.96	4.93	9.71	9.65	14.27	14.33	20.22	20.10
Middle CH	4.89	4.91	9.81	9.69	14.24	14.24	20.06	20.18
Highest CH	4.96	4.84	9.79	9.77	14.33	14.27	20.10	20.06



5G NR n5+2A / 5MHz / DFT-S OFDM

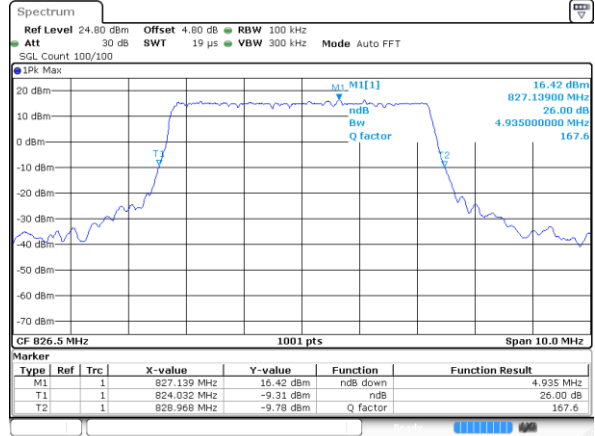
PI/2 BPSK

Lowest Channel



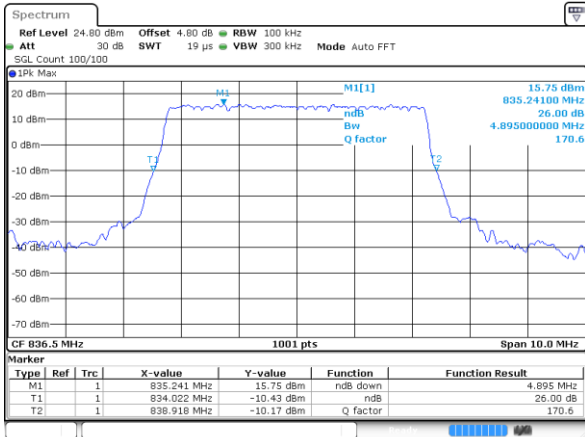
Date: 3 SEP 2020 12:25:11

Lowest Channel



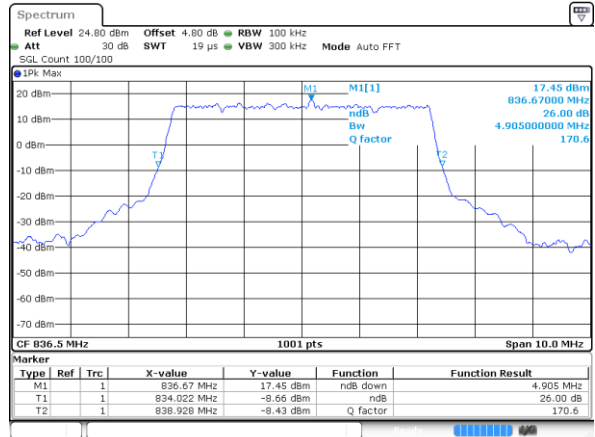
Date: 3 SEP 2020 12:29:18

Middle Channel



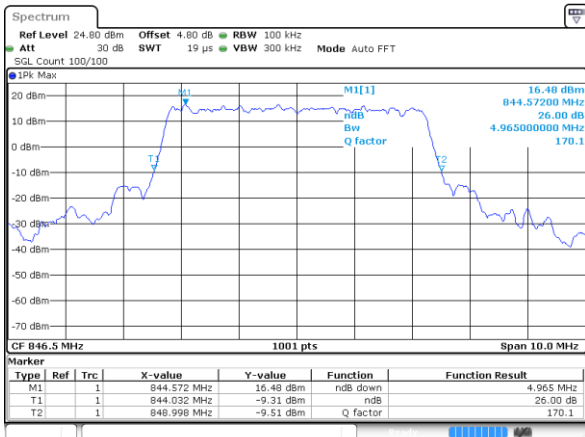
Date: 3 SEP 2020 12:47:31

Middle Channel



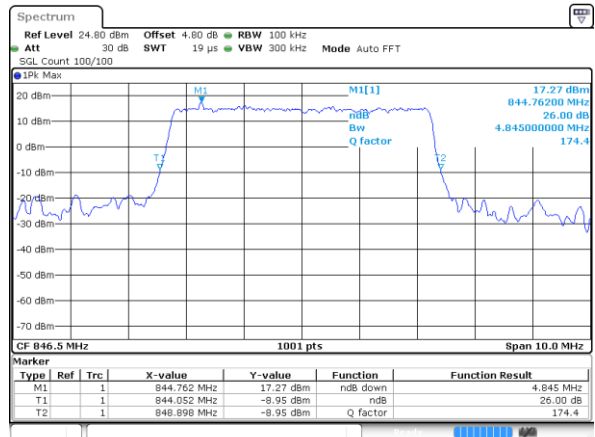
Date: 3 SEP 2020 12:47:08

Highest Channel



Date: 3 SEP 2020 12:48:05

Highest Channel



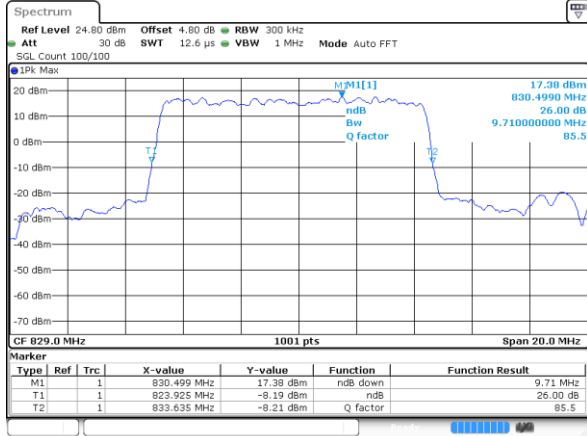
Date: 3 SEP 2020 12:49:11



5G NR n5+2A / 10MHz / DFT-S OFDM

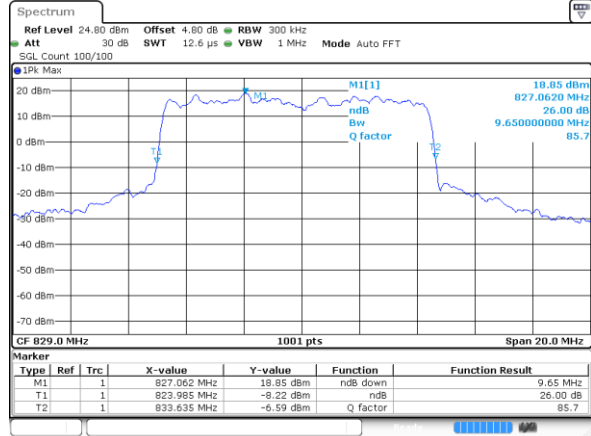
PI/2 BPSK

Lowest Channel



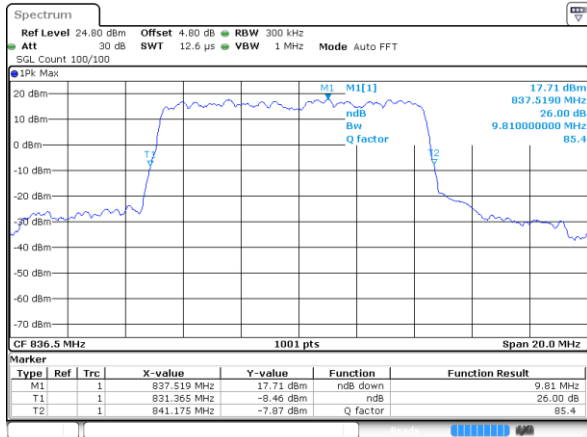
Date: 3 SEP 2020 15:01:09

Lowest Channel



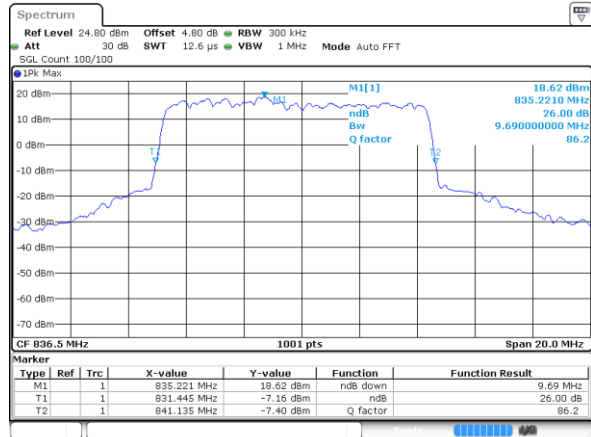
Date: 3 SEP 2020 15:02:02

Middle Channel



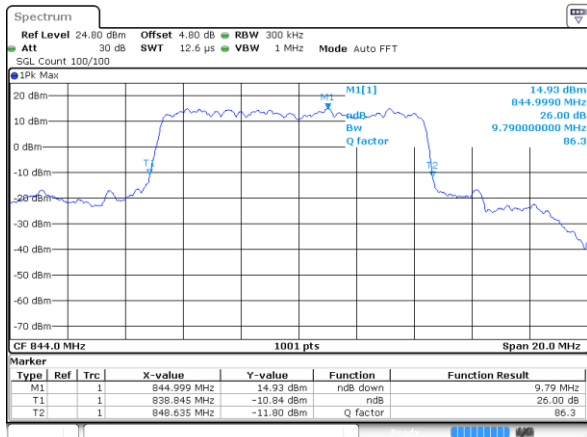
Date: 3 SEP 2020 15:38:16

Middle Channel



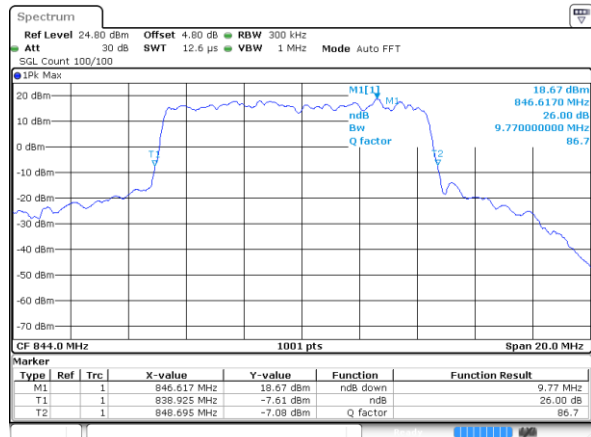
Date: 3 SEP 2020 15:37:52

Highest Channel



Date: 3 SEP 2020 15:40:11

Highest Channel



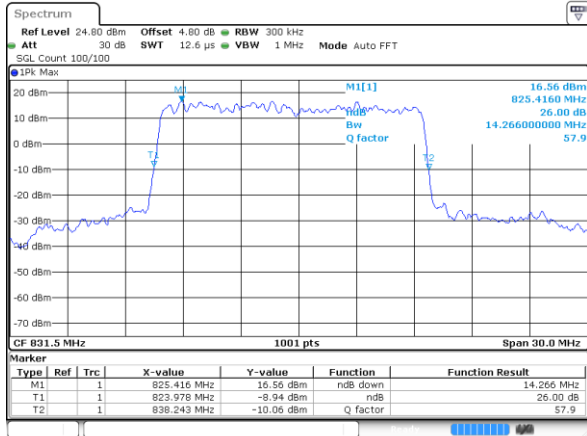
Date: 3 SEP 2020 15:41:11



5G NR n5+2A / 15MHz / DFT-S OFDM

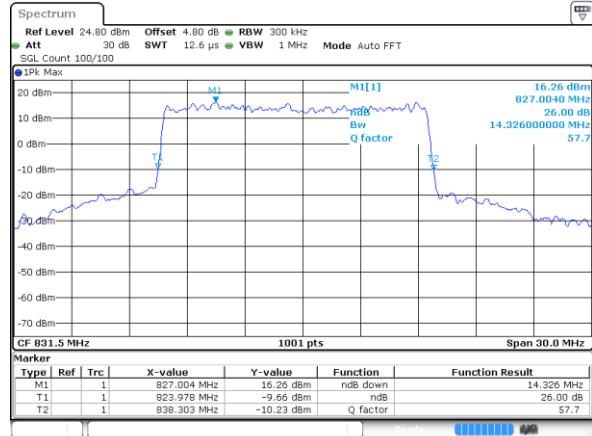
PI/2 BPSK

Lowest Channel



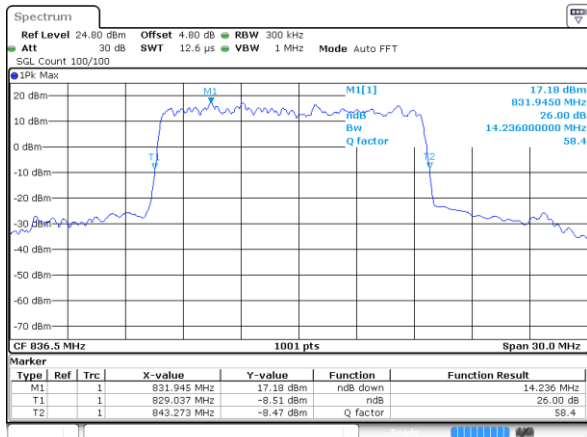
Date: 3 SEP 2020 15:54:13

Lowest Channel



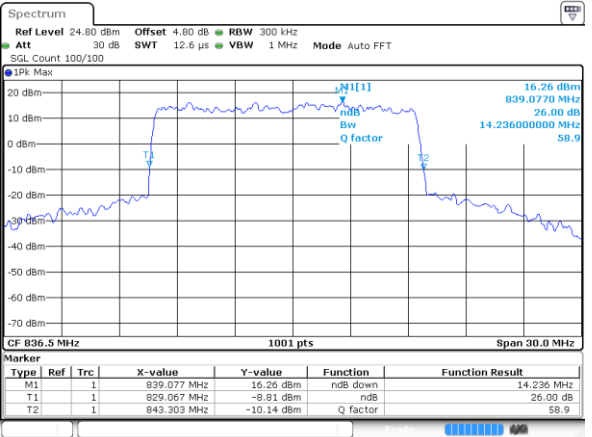
Date: 3 SEP 2020 15:55:24

Middle Channel



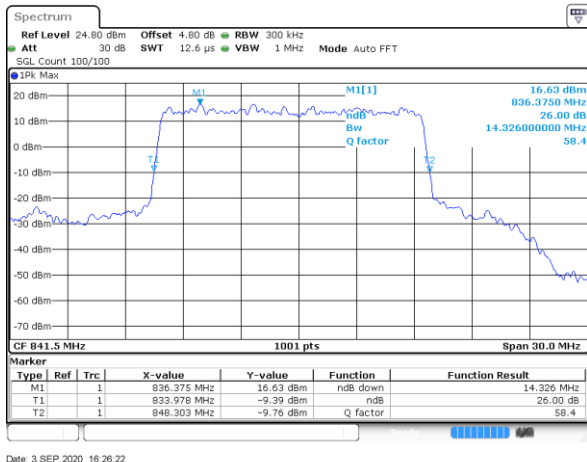
Date: 3 SEP 2020 16:25:11

Middle Channel



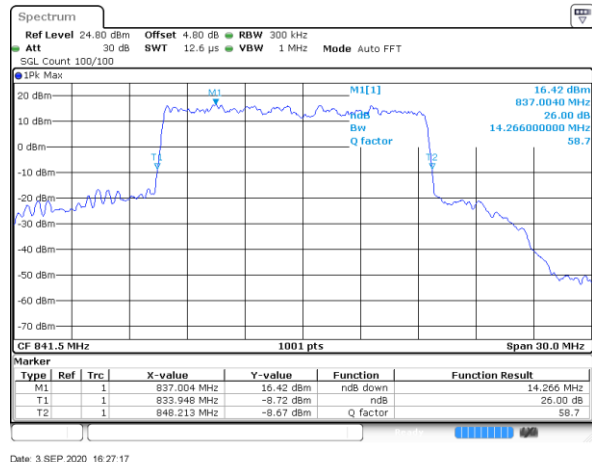
Date: 3 SEP 2020 16:24:41

Highest Channel



Date: 3 SEP 2020 16:26:22

Highest Channel



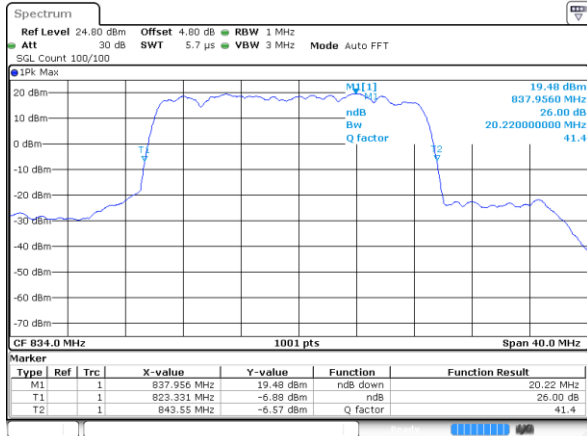
Date: 3 SEP 2020 16:27:17



5G NR n5+2A / 20MHz / DFT-S OFDM

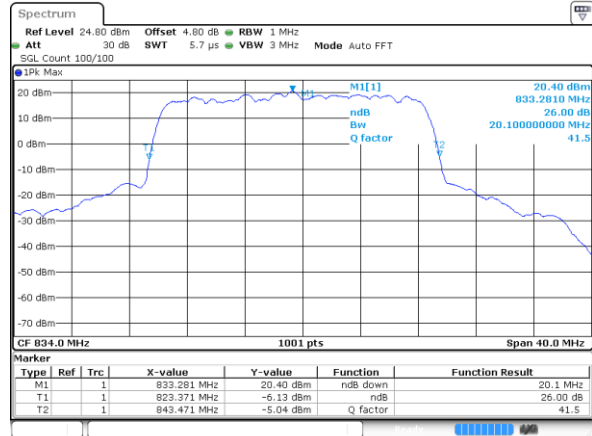
PI/2 BPSK

Lowest Channel



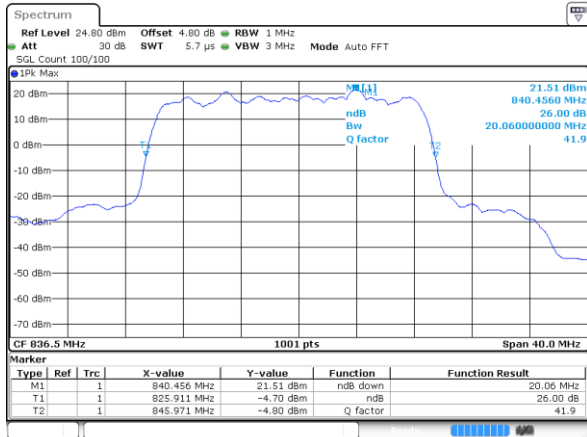
Date: 3 SEP 2020 16:51:12

Lowest Channel



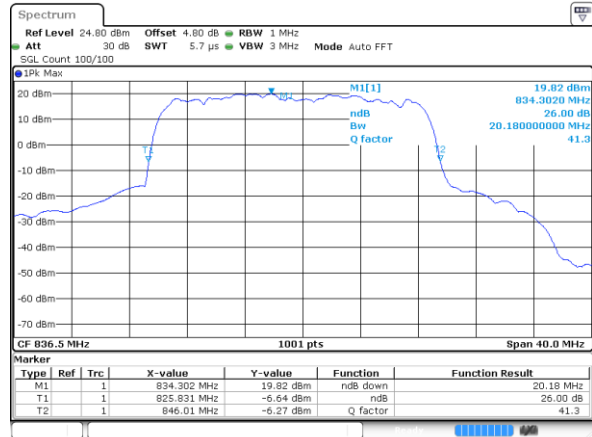
Date: 3 SEP 2020 16:52:16

Middle Channel



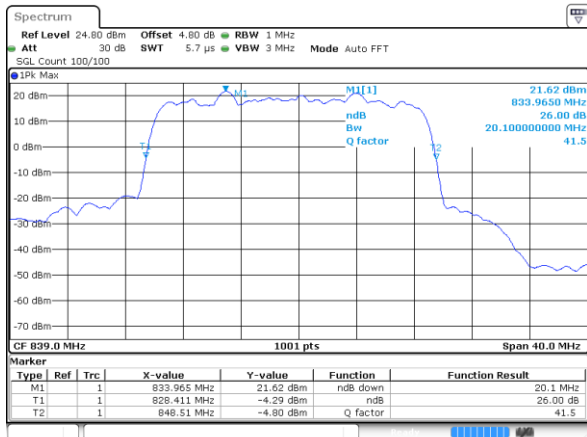
Date: 3 SEP 2020 17:10:52

Middle Channel



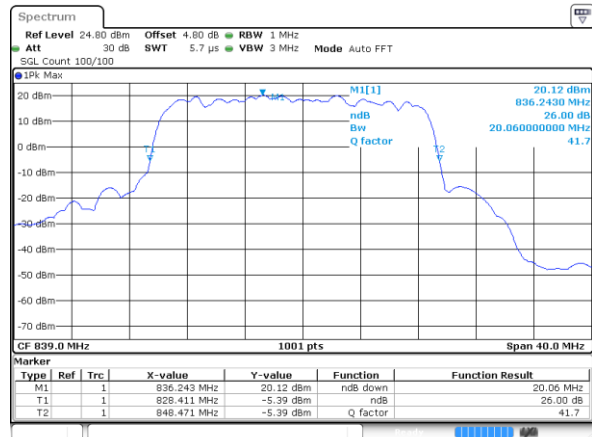
Date: 3 SEP 2020 17:10:17

Highest Channel



Date: 3 SEP 2020 17:11:43

Highest Channel



Date: 3 SEP 2020 17:13:34



Occupied Bandwidth

Mode	5G NR n5+2A : 99%OBW(MHz) / DFT-S OFDM			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Lowest CH	4.51	9.05	13.46	18.30
Middle CH	4.46	9.05	13.46	18.42
Highest CH	4.51	9.07	13.43	18.22

Mode	5G NR n5+2A : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.49	4.49	9.07	9.01	13.52	13.52	18.34	18.42
Middle CH	4.48	4.49	9.09	9.05	13.46	13.43	18.18	18.22
Highest CH	4.49	4.48	9.03	9.05	13.49	13.46	18.22	18.34

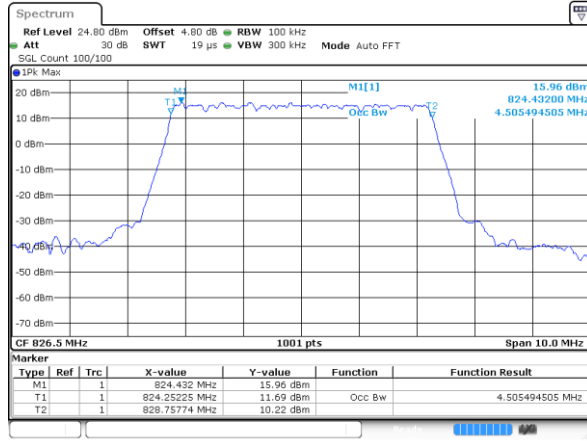
Mode	5G NR n5+2A : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.47	4.47	9.03	9.07	13.46	13.49	18.38	18.38
Middle CH	4.50	4.49	9.03	9.03	13.52	13.46	18.22	18.42
Highest CH	4.46	4.47	9.01	9.03	13.46	13.49	18.30	18.38



5G NR n5+2A / 5MHz / DFT-S OFDM

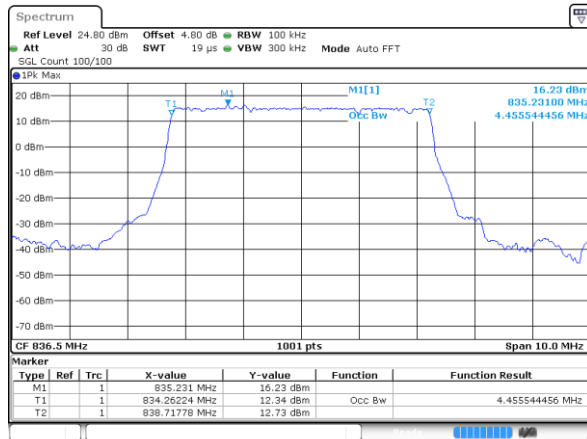
PI/2 BPSK

Lowest Channel



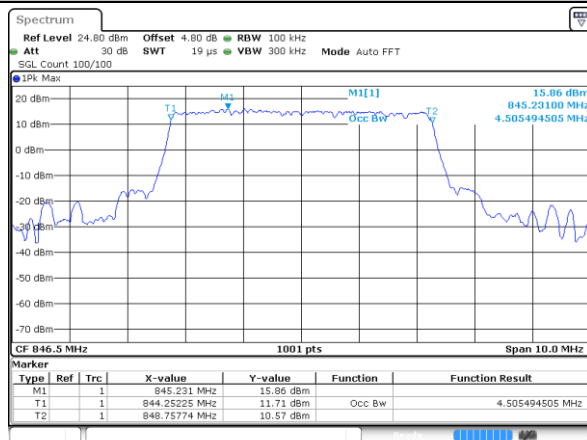
Date: 3 SEP 2020 12:24:58

Middle Channel



Date: 3 SEP 2020 12:47:24

Highest Channel



Date: 3 SEP 2020 12:47:58



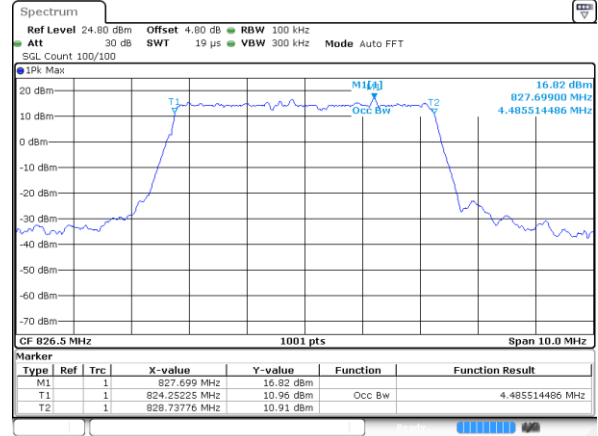
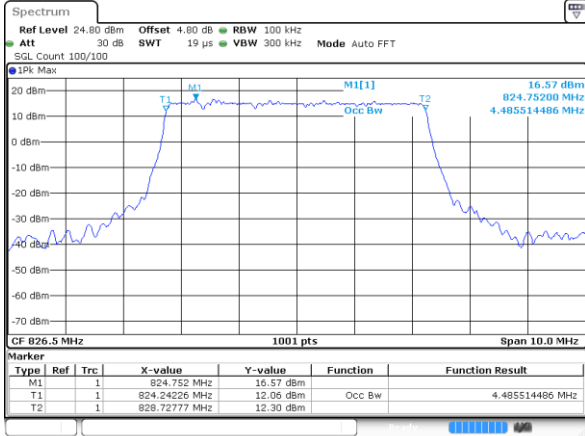
5G NR n5+2A / 5MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

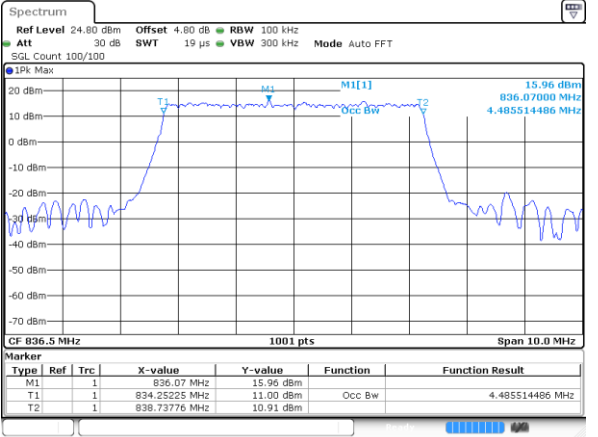
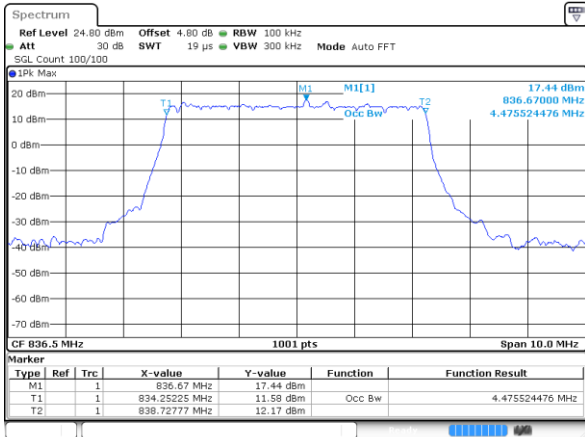


Date: 3 SEP 2020 12:29:11

Date: 3 SEP 2020 12:30:08

Middle Channel

Middle Channel

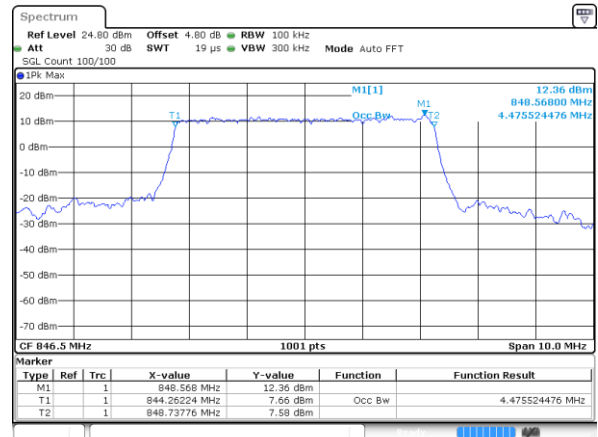
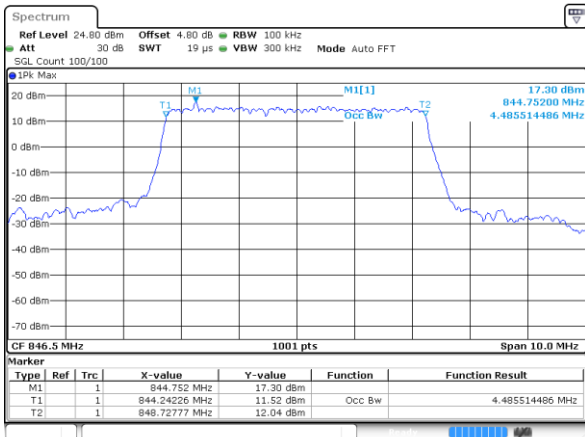


Date: 3 SEP 2020 12:47:02

Date: 3 SEP 2020 12:46:43

Highest Channel

Highest Channel



Date: 3 SEP 2020 12:49:05

Date: 3 SEP 2020 14:07:41



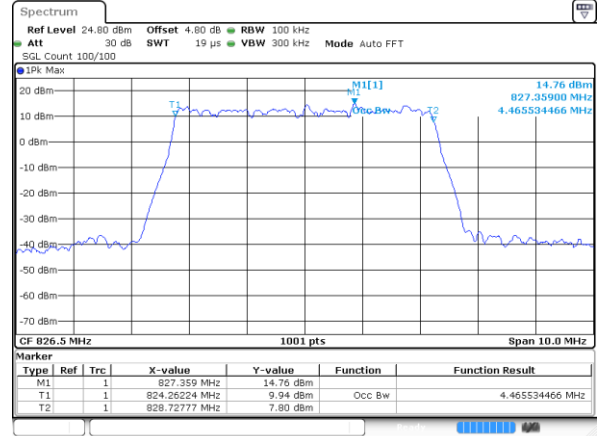
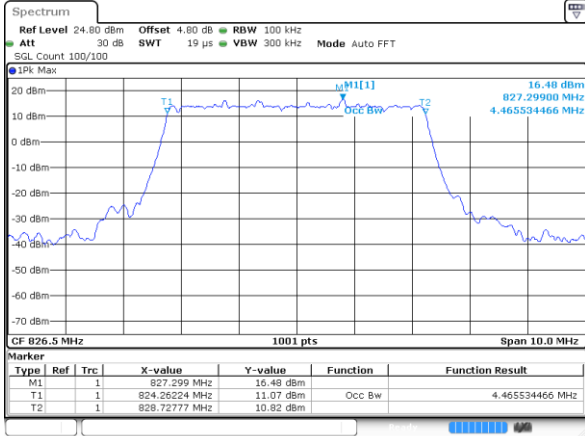
5G NR n5+2A / 5MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

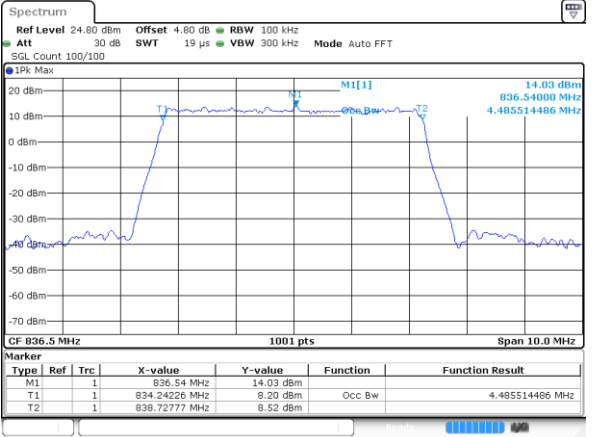
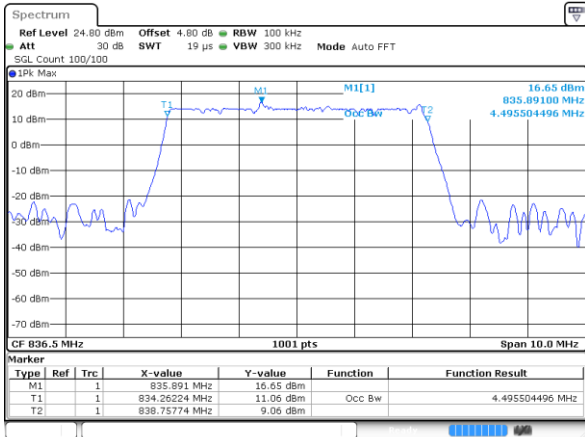


Date: 3 SEP 2020 12:31:20

Date: 3 SEP 2020 12:32:45

Middle Channel

Middle Channel

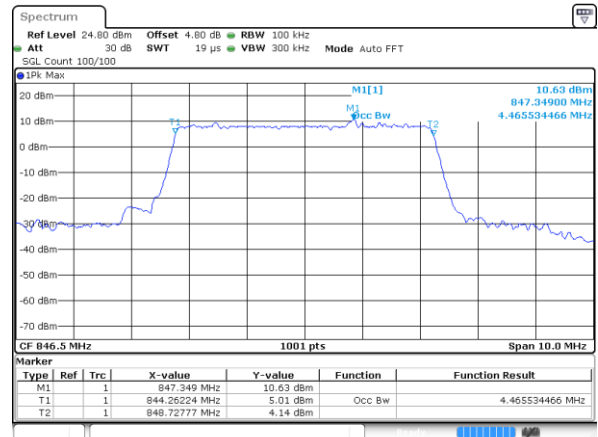
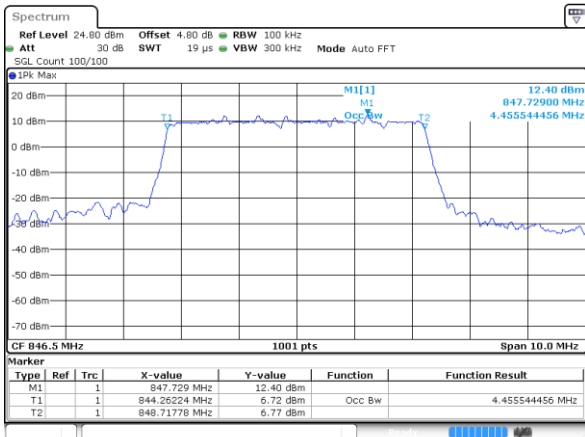


Date: 3 SEP 2020 12:46:24

Date: 3 SEP 2020 12:46:04

Highest Channel

Highest Channel



Date: 3 SEP 2020 14:08:47

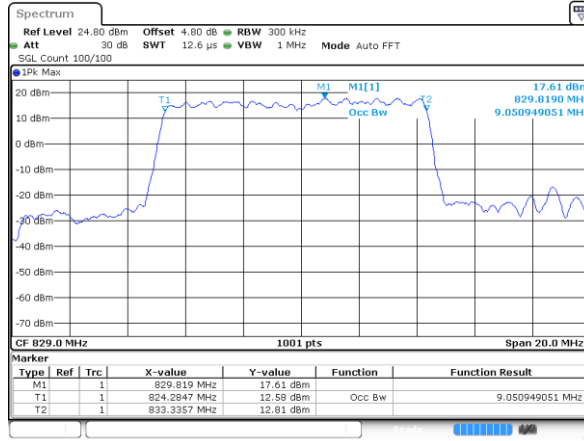
Date: 3 SEP 2020 14:10:04



5G NR n5+2A / 10MHz / DFT-S OFDM

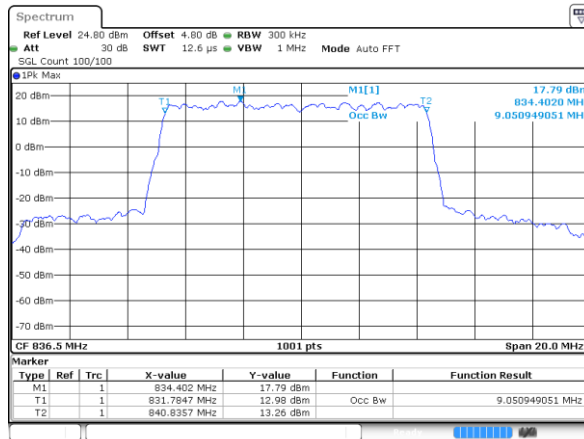
PI/2 BPSK

Lowest Channel



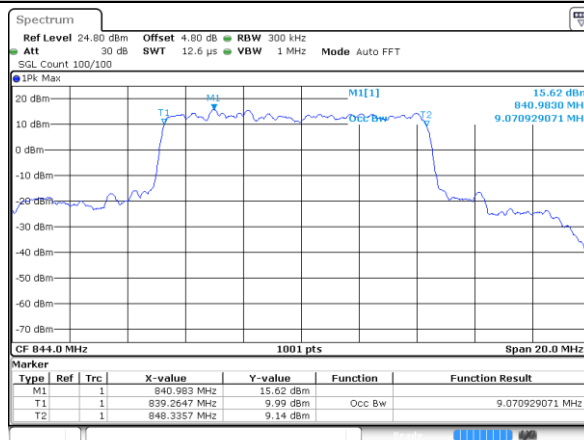
Date: 3 SEP 2020 15:01:01

Middle Channel



Date: 3 SEP 2020 15:38:09

Highest Channel



Date: 3 SEP 2020 15:40:02



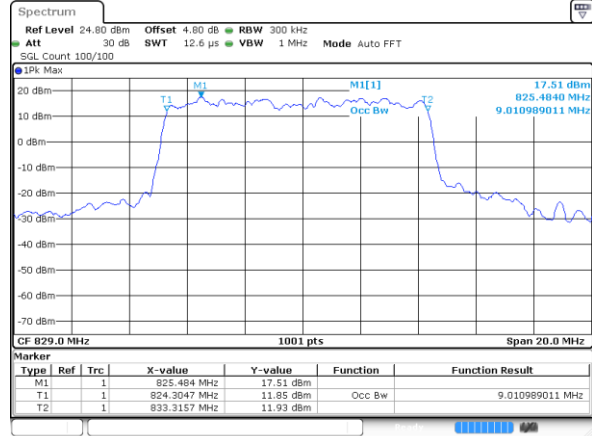
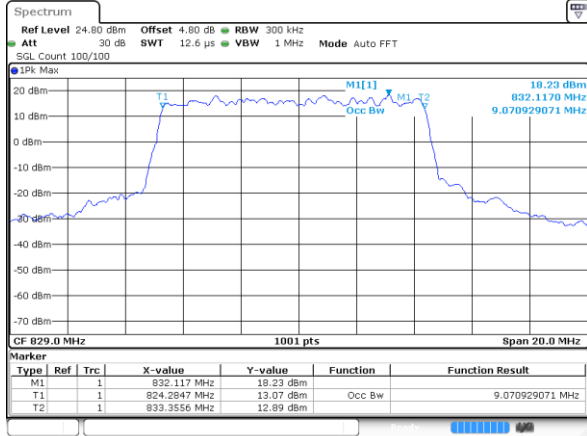
5G NR n5+2A / 10MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

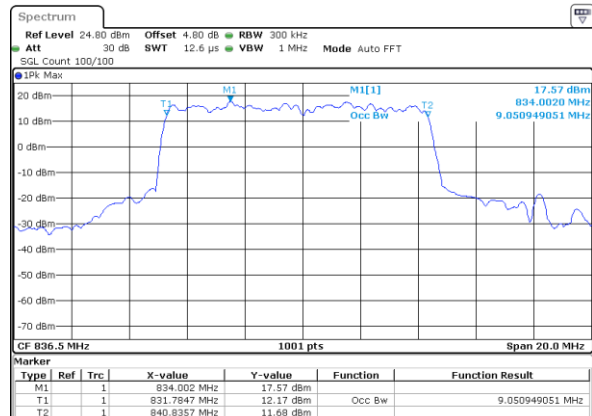
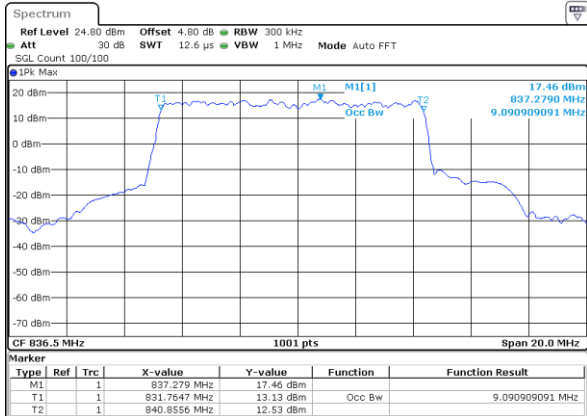


Date: 3 SEP. 2020 15:01:56

Date: 3 SEP. 2020 15:02:45

Middle Channel

Middle Channel



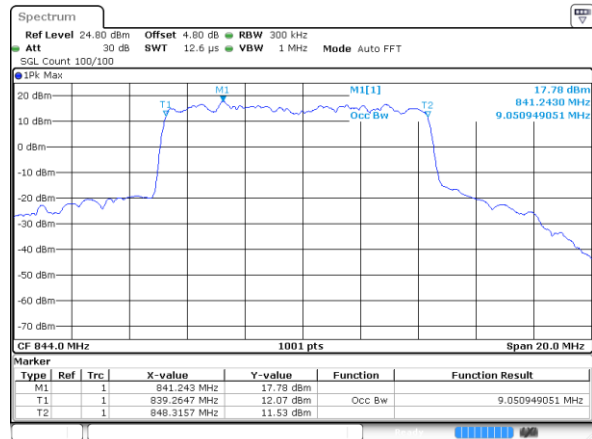
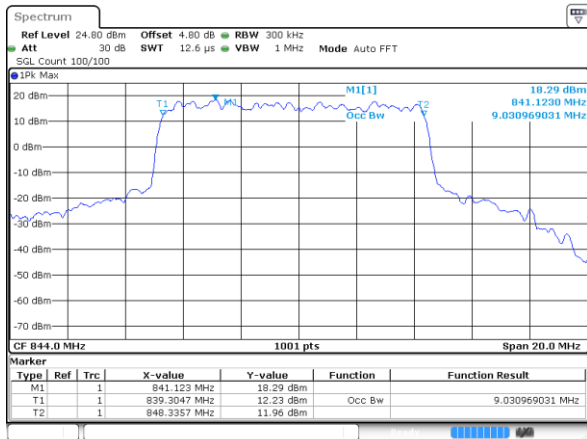
Date: 3 SEP. 2020 15:37:44

Date: 3 SEP. 2020 15:37:24

K

Highest Channel

Highest Channel



Date: 3 SEP. 2020 15:41:04

Date: 3 SEP. 2020 15:42:06