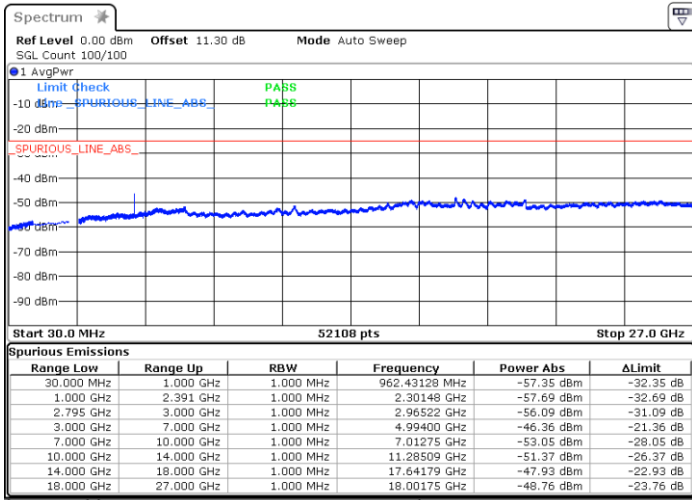




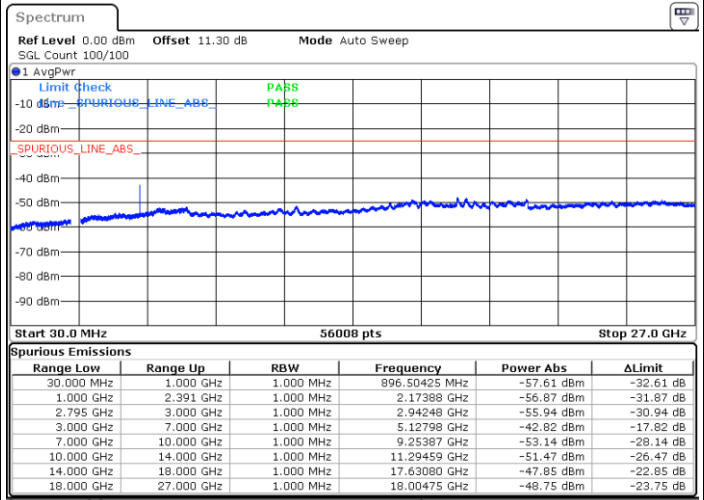
5G NR n41 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

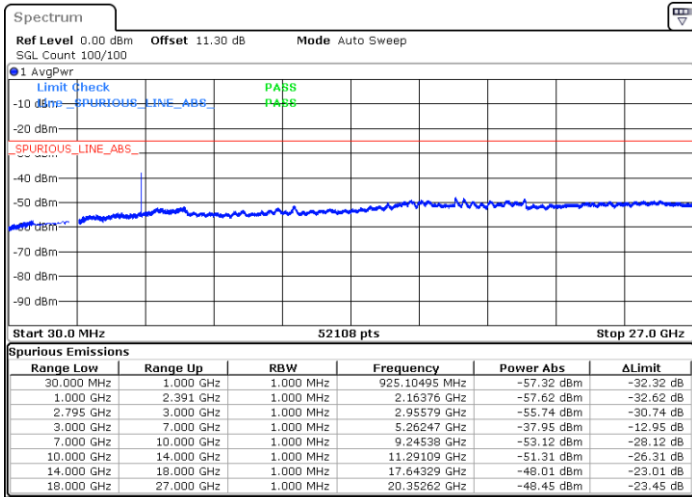


Date: 22.SEP.2020 03:39:59



Date: 22.SEP.2020 03:49:01

Highest Channel / 1RB



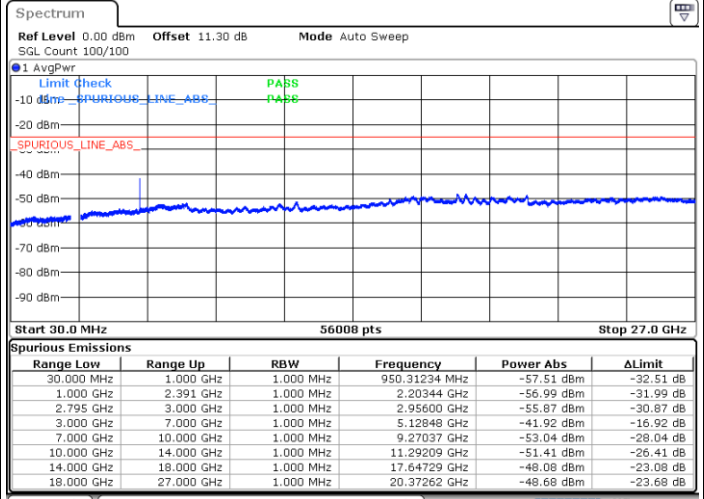
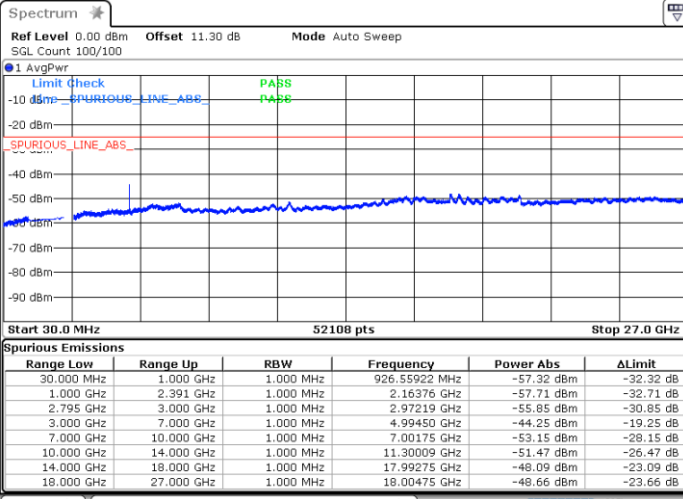
Date: 22.SEP.2020 04:02:41



5G NR n41 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

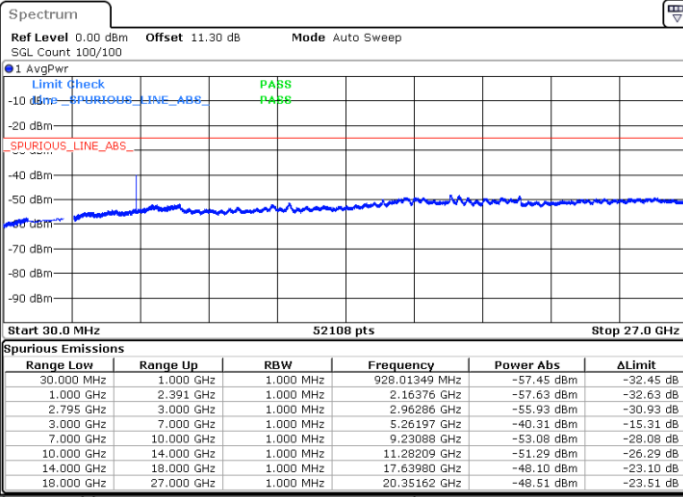
Middle Channel / 1RB



Date: 22.SEP.2020 03:38:31

Date: 22.SEP.2020 03:46:02

Highest Channel / 1RB



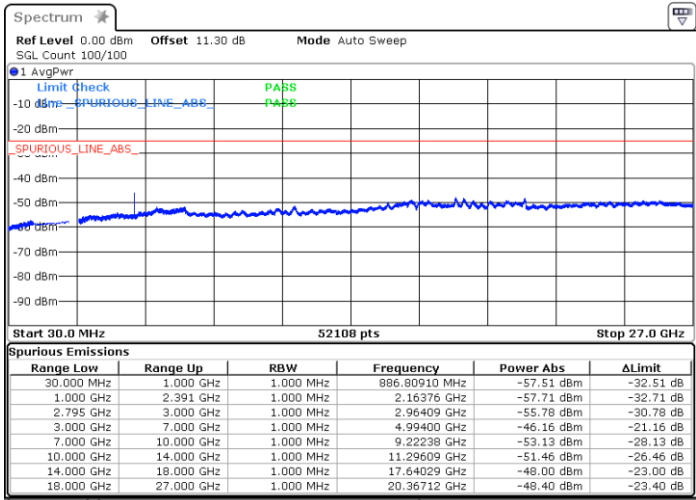
Date: 22.SEP.2020 04:00:29



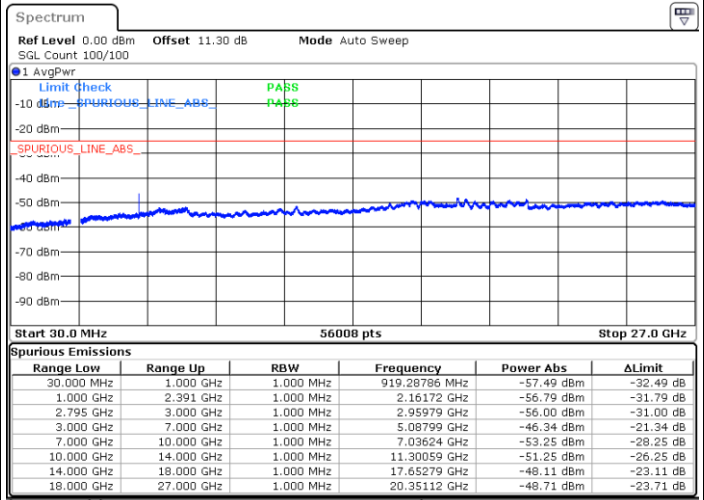
5G NR n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

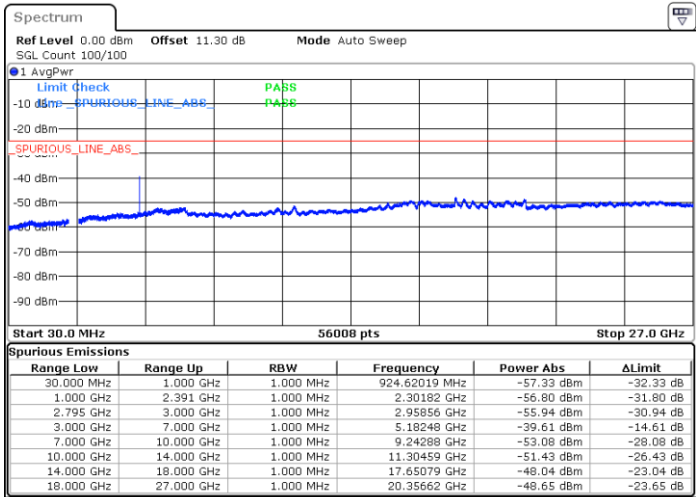


Date: 22.SEP.2020 02:44:12



Date: 22.SEP.2020 02:49:42

Highest Channel / 1RB



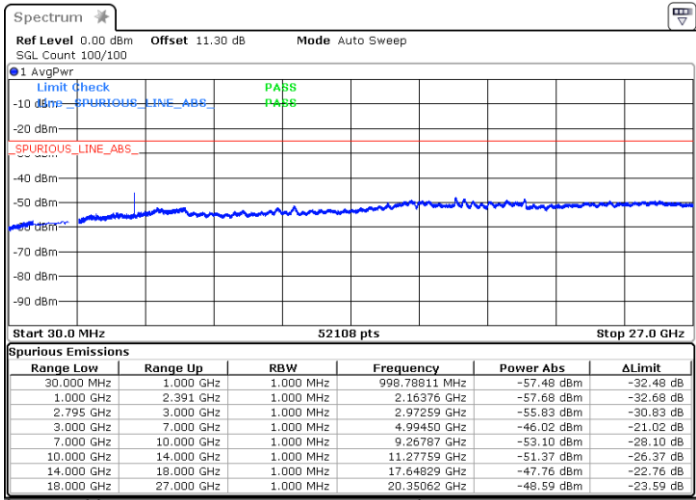
Date: 22.SEP.2020 03:18:42



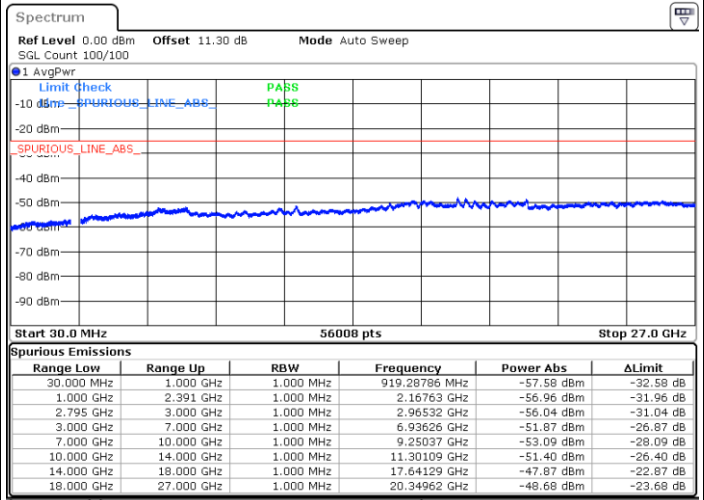
5G NR n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

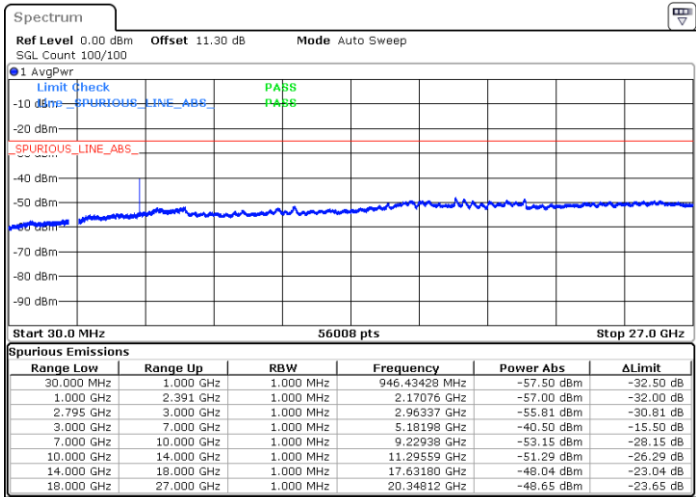


Date: 22.SEP.2020 02:45:27



Date: 22.SEP.2020 02:52:07

Highest Channel / 1RB



Date: 22.SEP.2020 03:22:02



Frequency Stability

Test Conditions		5G NR n41 (PI/2BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

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 n66

Peak-to-Average Ratio

Mode	5G NR n66 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Lowest CH	3.83	4.84	PASS
Middle CH	5.16	5.01	
Highest CH	3.74	4.70	
Mode	5G NR n66 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	1 RB0	1 RB0	Result
Lowest CH	4.20	4.61	PASS
Middle CH	4.87	5.30	
Highest CH	4.46	4.87	



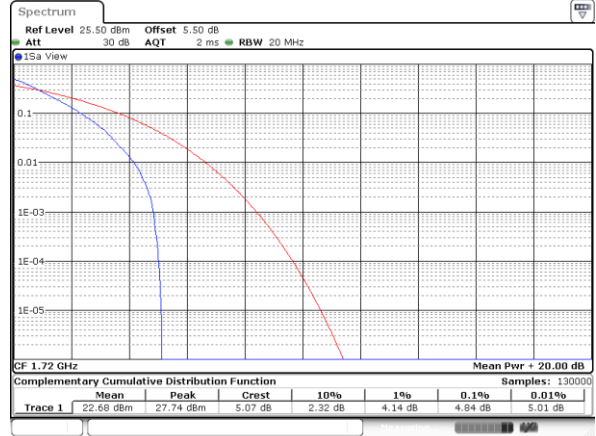
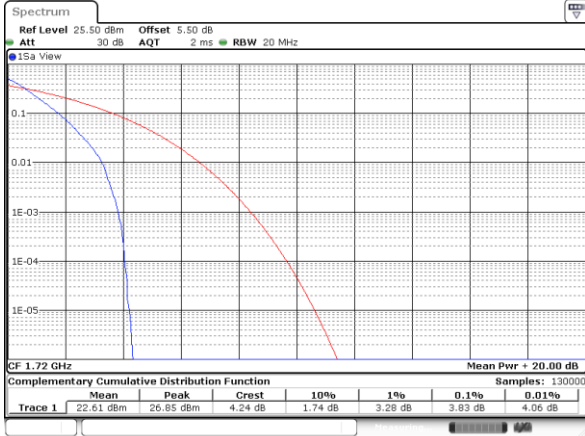
5G NR n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

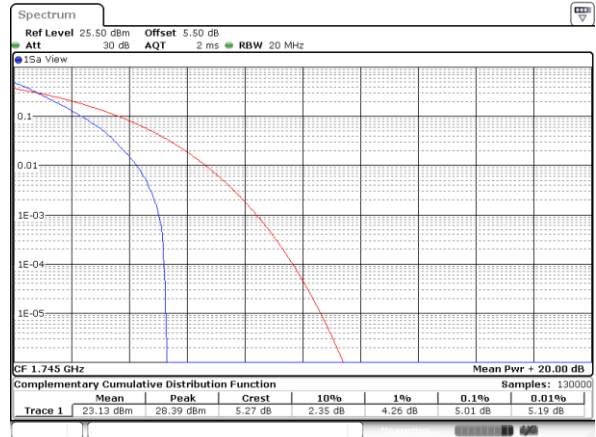
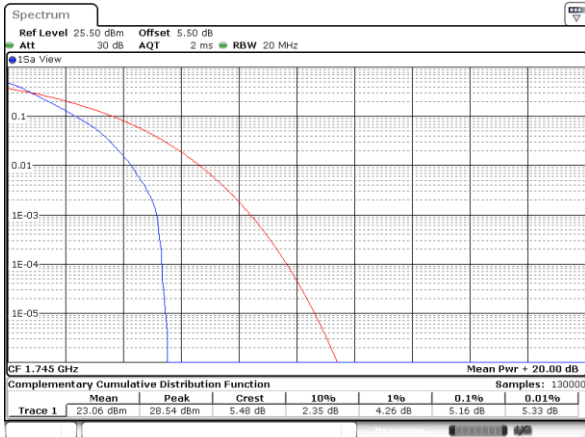


Date: 4 SEP 2020 16:27:00

Date: 4 SEP 2020 16:27:39

Middle Channel / Full RB

Middle Channel / Full RB

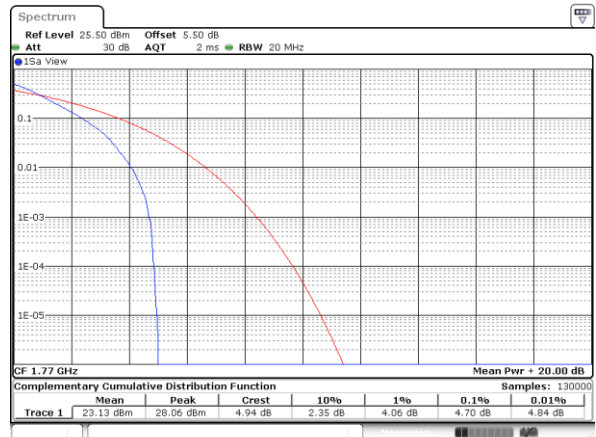
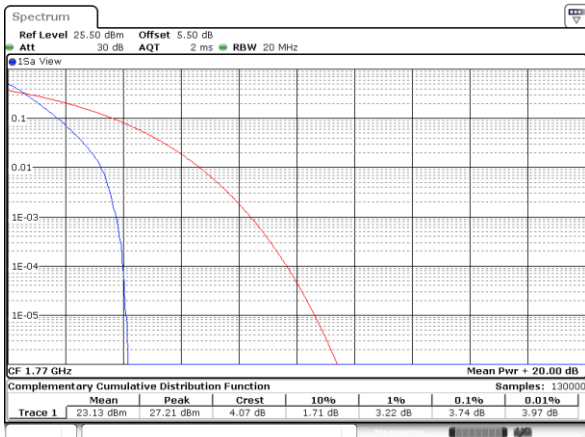


Date: 4 SEP 2020 16:52:41

Date: 4 SEP 2020 16:53:11

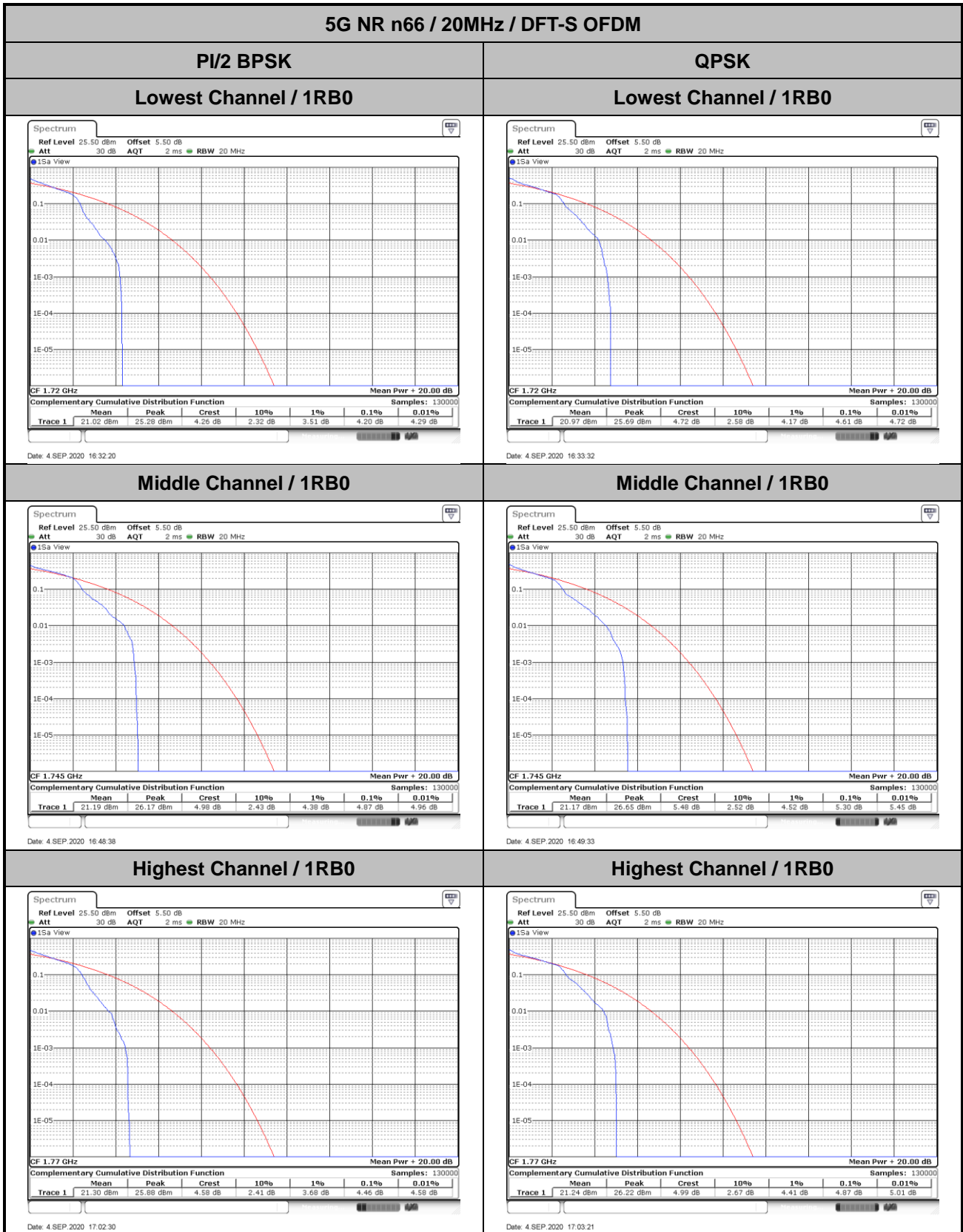
Highest Channel / Full RB

Highest Channel / Full RB



Date: 4 SEP 2020 16:58:33

Date: 4 SEP 2020 16:57:47





26dB Bandwidth

Mode	5G NR n66 : 26dB BW(MHz) / DFT-S OFDM							
	5MHz		10MHz		15MHz		20MHz	
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Lowest CH	4.96	4.91	9.67	9.69	14.30	14.27	20.22	20.10
Middle CH	5.03	4.89	9.71	9.73	14.36	14.33	20.26	20.22
Highest CH	5.04	4.92	9.75	9.75	14.21	14.27	20.26	20.22



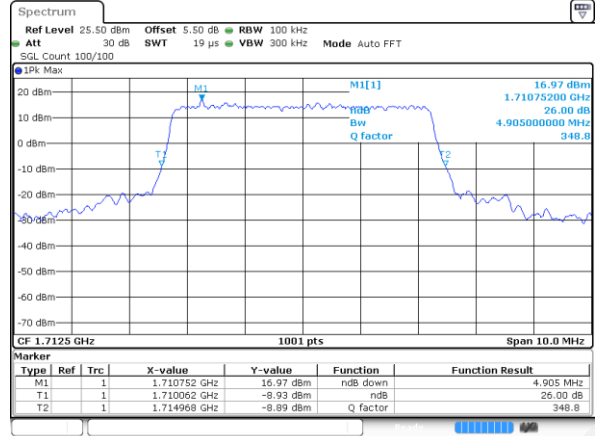
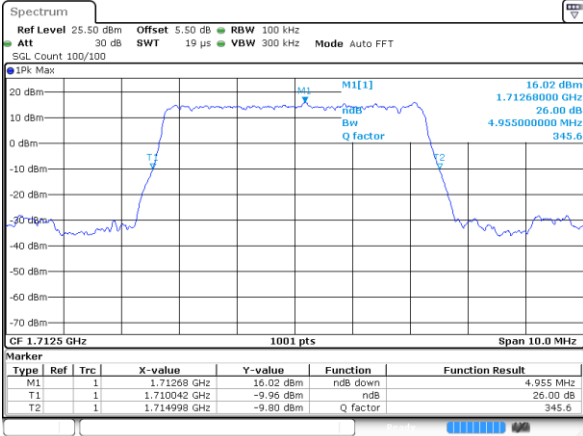
5G NR n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

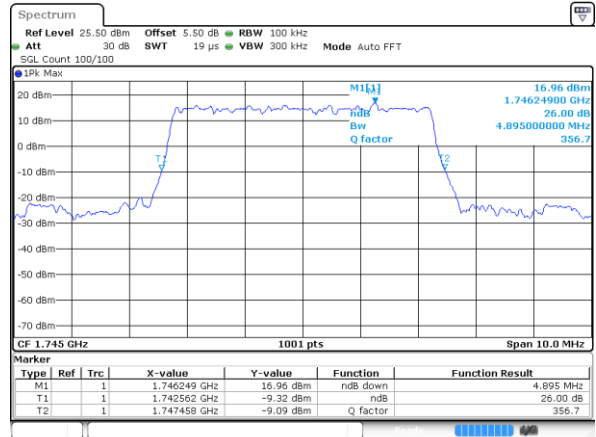
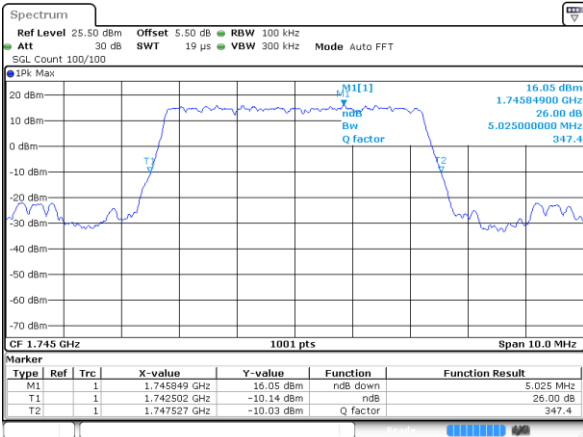


Date: 4 SEP 2020 10:37:45

Date: 4 SEP 2020 10:40:57

Middle Channel

Middle Channel

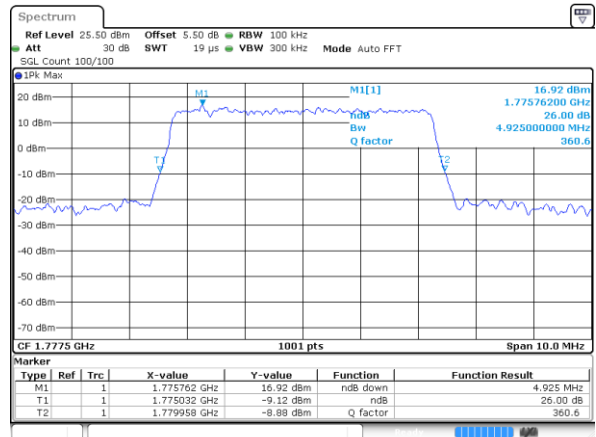
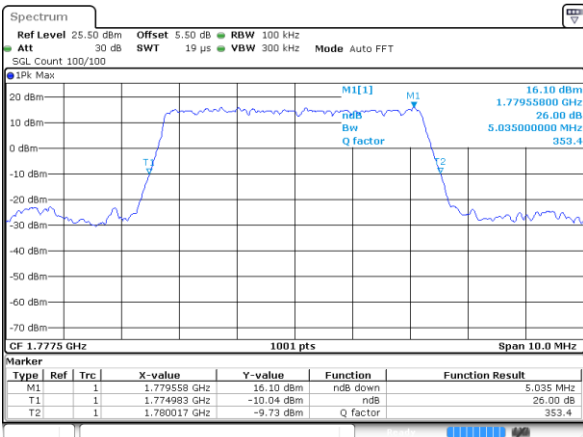


Date: 4 SEP 2020 11:02:13

Date: 4 SEP 2020 11:01:49

Highest Channel

Highest Channel



Date: 4 SEP 2020 11:02:46

Date: 4 SEP 2020 11:03:25



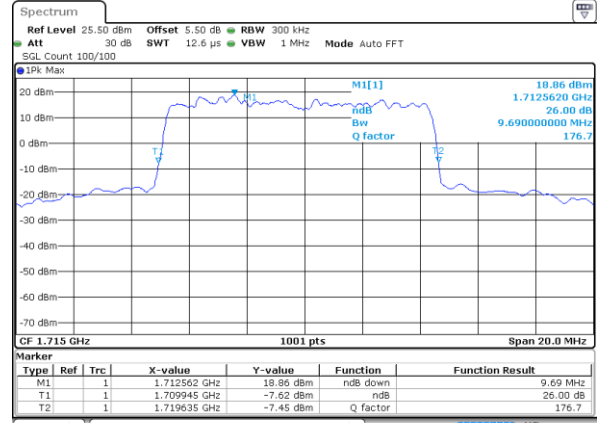
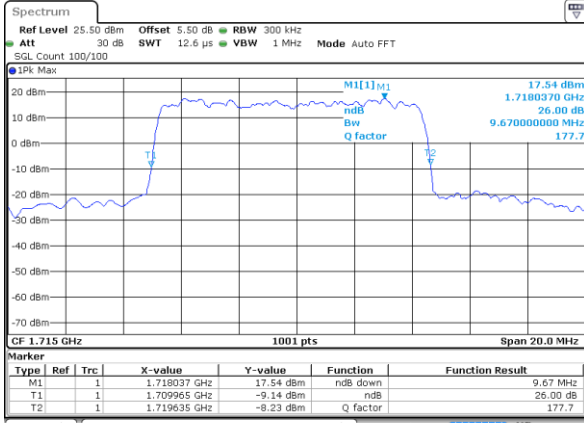
5G NR n66 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

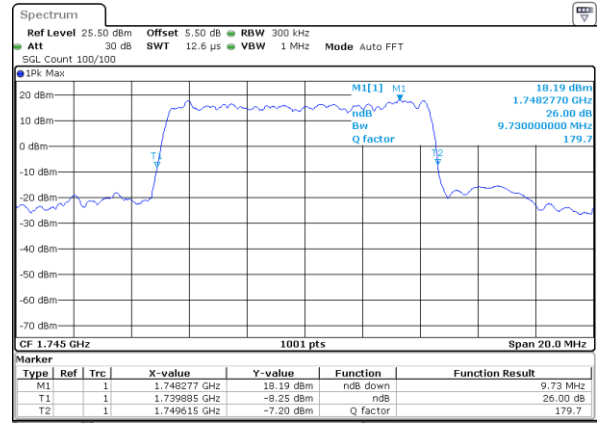
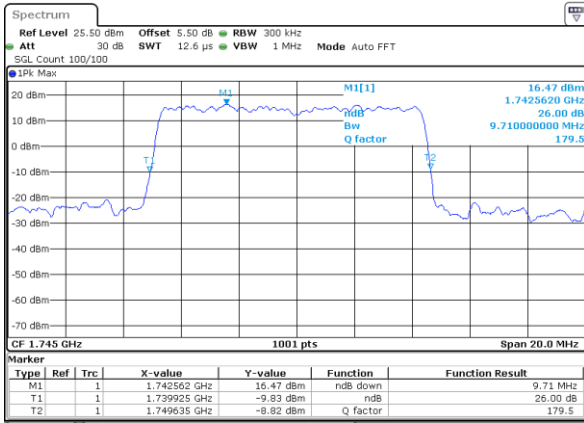


Date: 4 SEP 2020 12:08:27

Date: 4 SEP 2020 12:09:07

Middle Channel

Middle Channel

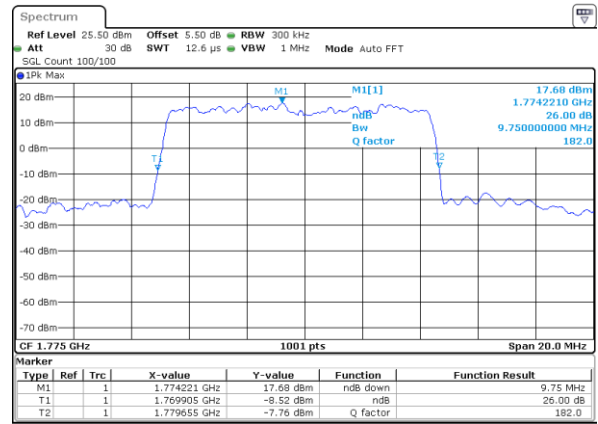
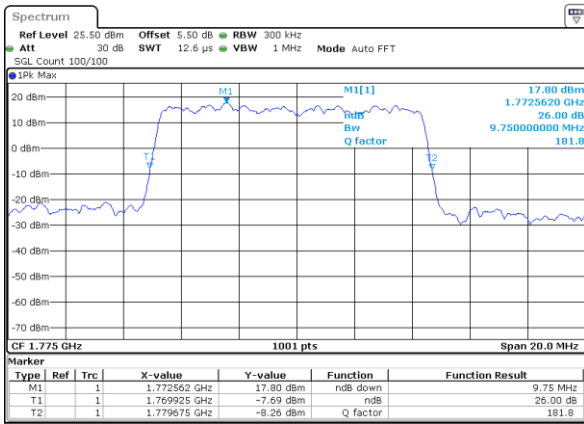


Date: 4 SEP 2020 14:56:29

Date: 4 SEP 2020 14:56:04

Highest Channel

Highest Channel



Date: 4 SEP 2020 14:57:09

Date: 4 SEP 2020 14:57:46



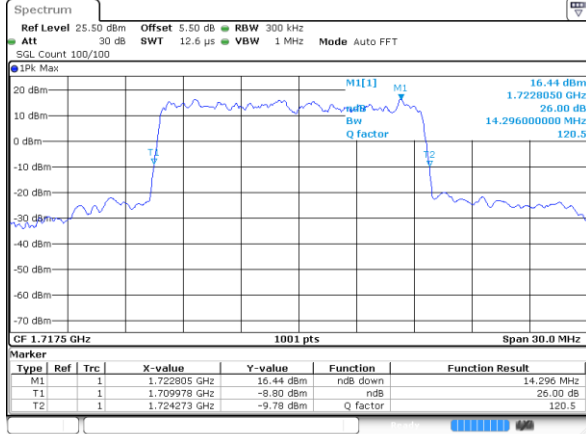
5G NR n66 / 15MHz / DFT-S OFDM

PI/2 BPSK

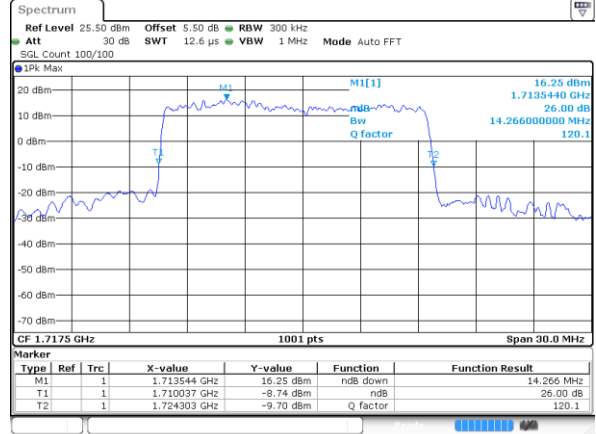
QPSK

Lowest Channel

Lowest Channel



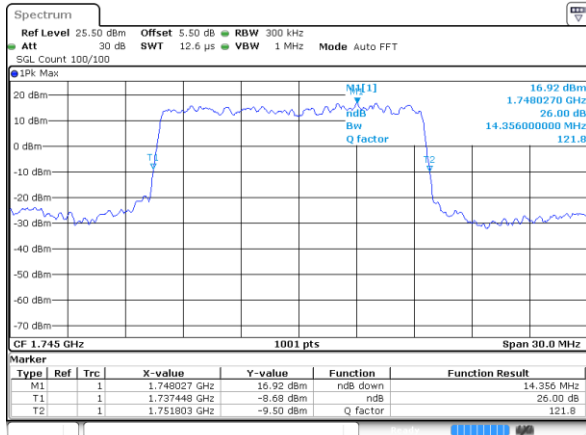
Date: 4 SEP 2020 15:27:21



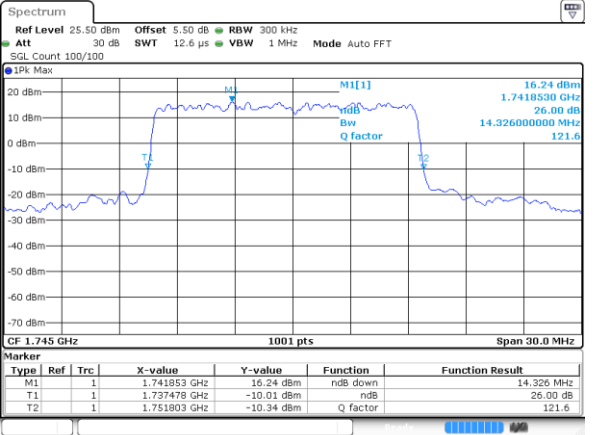
Date: 4 SEP 2020 15:27:55

Middle Channel

Middle Channel



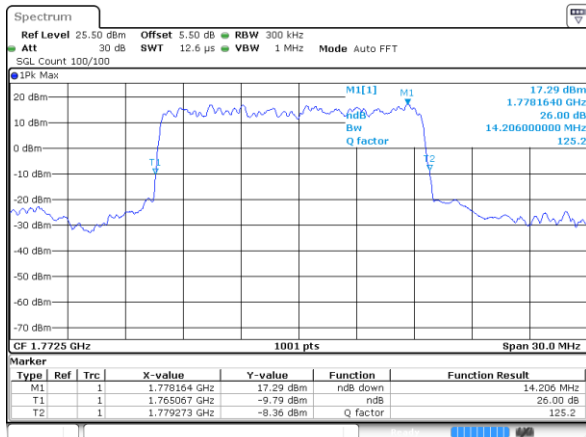
Date: 4 SEP 2020 15:43:33



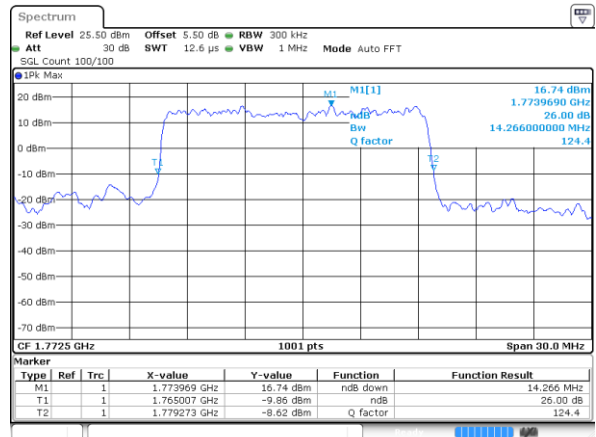
Date: 4 SEP 2020 15:43:07

Highest Channel

Highest Channel



Date: 4 SEP 2020 16:16:30



Date: 4 SEP 2020 16:17:04



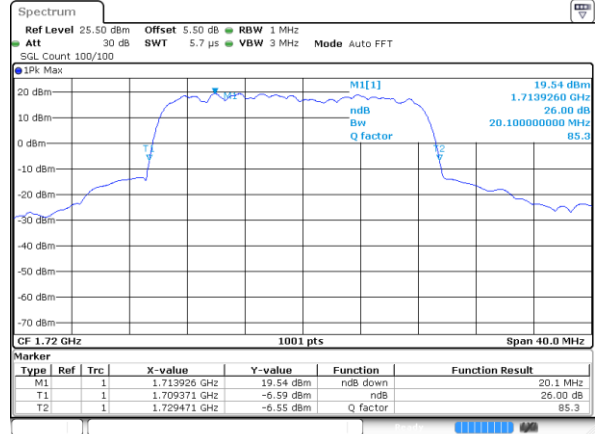
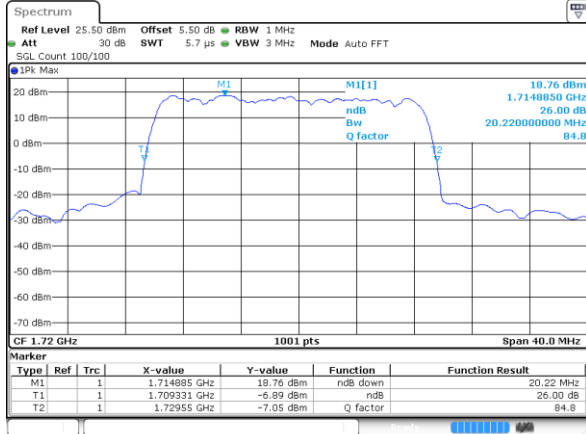
5G NR n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

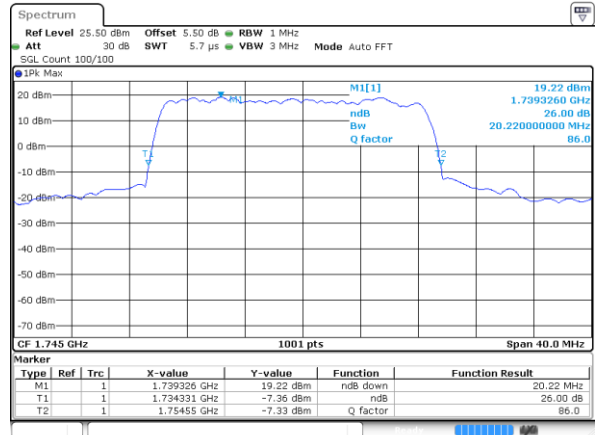
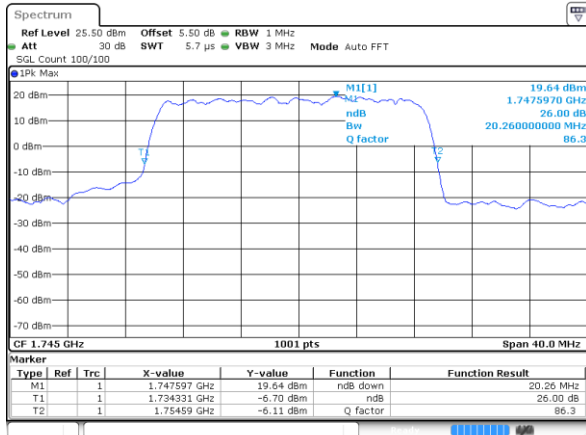


Date: 4 SEP 2020 16:27:15

Date: 4 SEP 2020 16:27:56

Middle Channel

Middle Channel

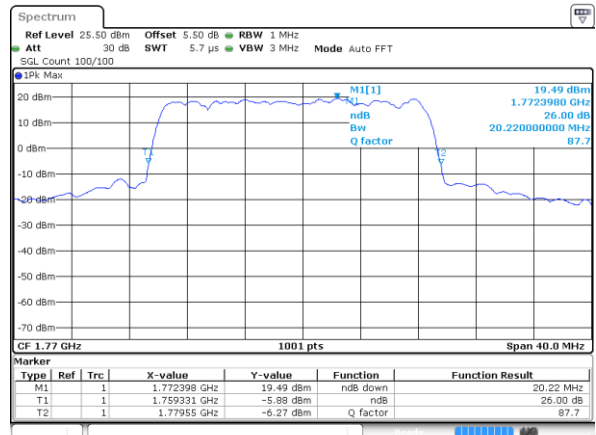
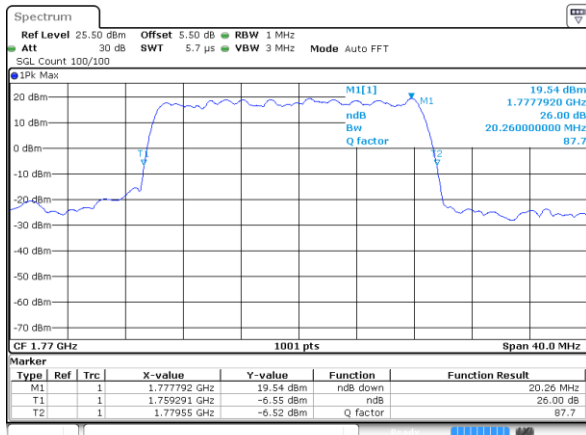


Date: 4 SEP 2020 16:52:55

Date: 4 SEP 2020 16:53:26

Highest Channel

Highest Channel



Date: 4 SEP 2020 16:58:48

Date: 4 SEP 2020 16:58:02



Occupied Bandwidth

Mode	5G NR 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
Lowest CH	4.46	9.03	13.46	18.50
Middle CH	4.47	9.09	13.46	18.46
Highest CH	4.49	9.05	13.46	18.30

Mode	5G NR n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.48	4.49	9.05	9.09	13.58	13.46	18.50	18.50
Middle CH	4.46	4.49	9.05	9.07	13.58	13.52	18.38	18.50
Highest CH	4.50	4.49	9.07	9.05	13.55	13.49	18.50	18.54

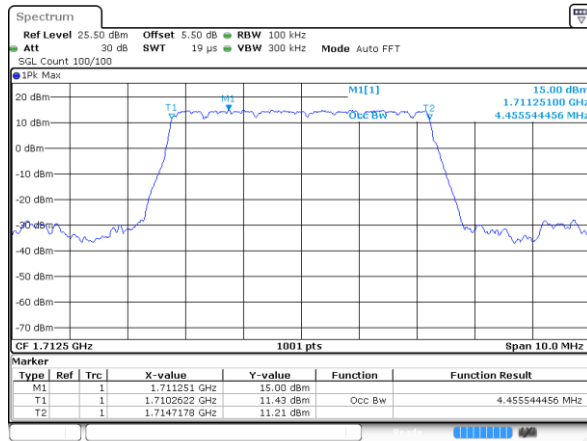
Mode	5G NR n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.49	4.48	9.03	8.99	13.49	13.52	18.34	18.34
Middle CH	4.49	4.48	9.03	9.07	13.46	13.46	18.38	18.50
Highest CH	4.48	4.48	9.05	9.05	13.49	13.43	18.38	18.30



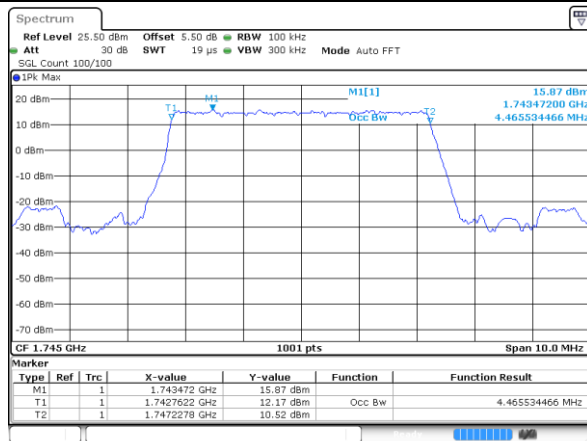
5G NR n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

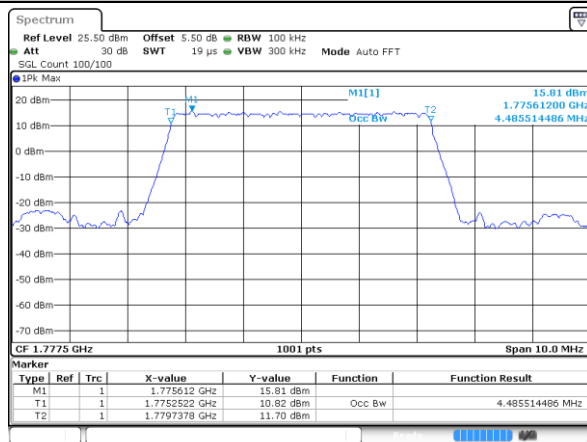
Lowest Channel



Middle Channel



Highest Channel





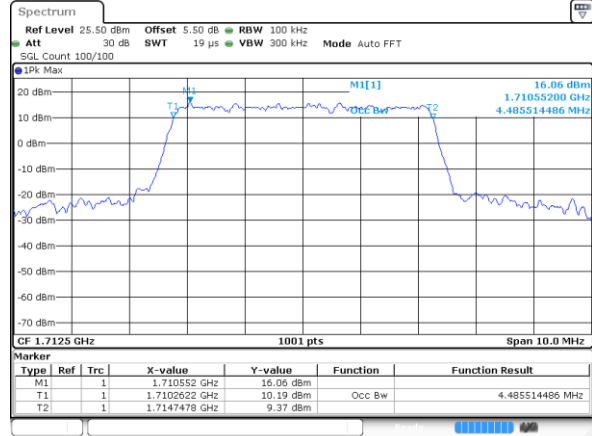
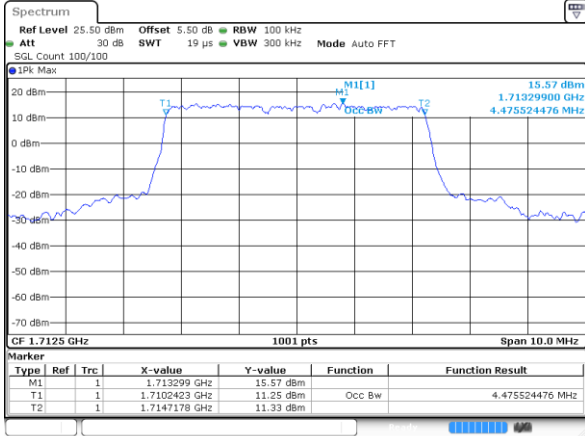
5G NR n66 / 5MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

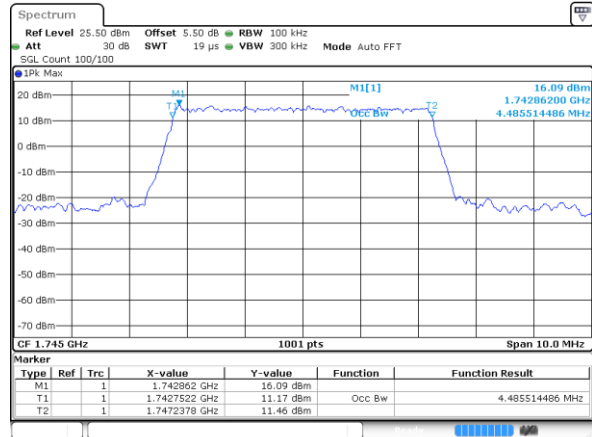
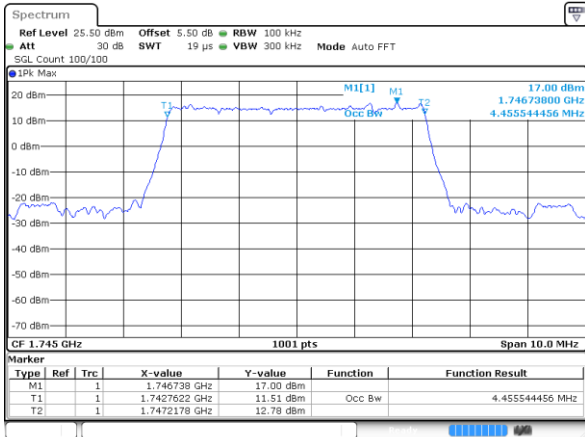


Date: 4 SEP 2020 10:40:49

Date: 4 SEP 2020 10:41:31

Middle Channel

Middle Channel

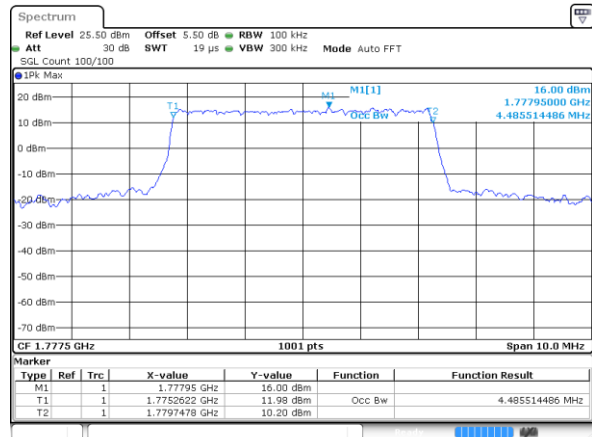
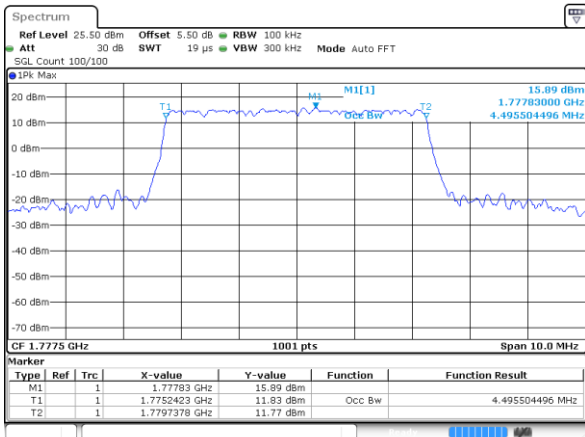


Date: 4 SEP 2020 11:01:42

Date: 4 SEP 2020 11:01:22

Highest Channel

Highest Channel



Date: 4 SEP 2020 11:03:17

Date: 4 SEP 2020 11:03:56



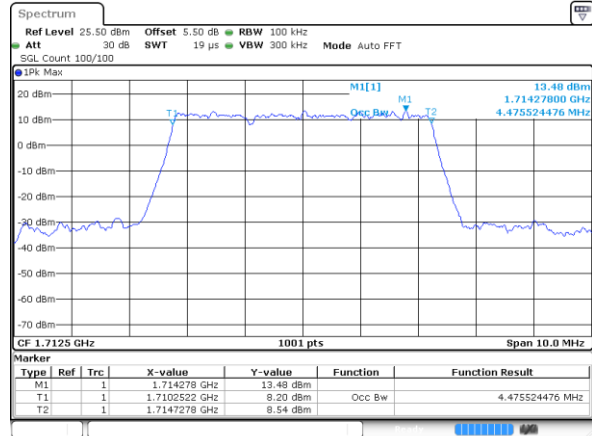
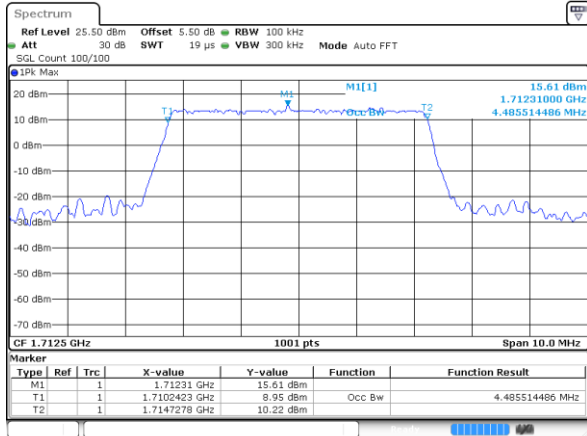
5G NR n66 / 5MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

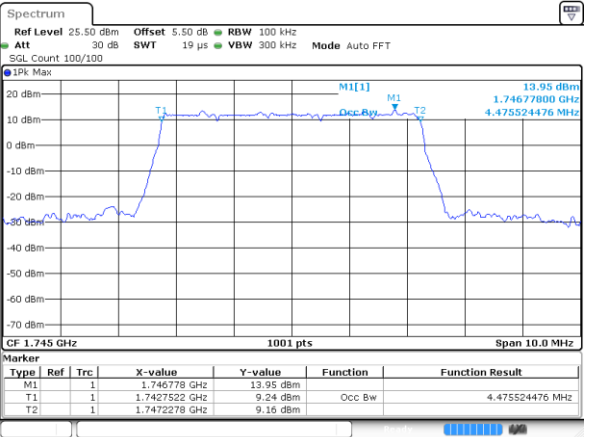
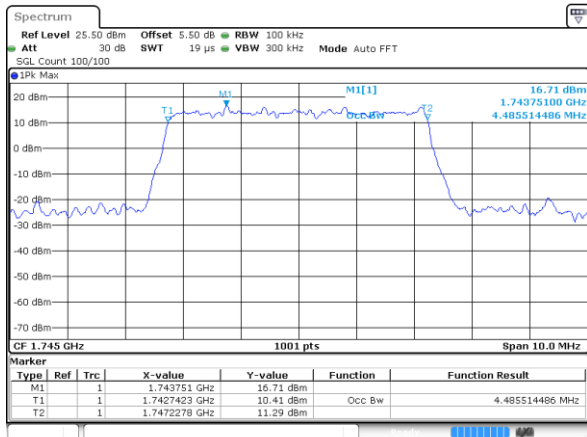


Date: 4 SEP 2020 10:42:12

Date: 4 SEP 2020 10:42:56

Middle Channel

Middle Channel

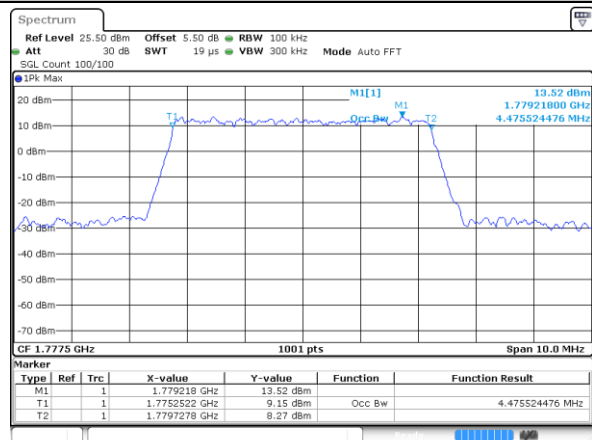
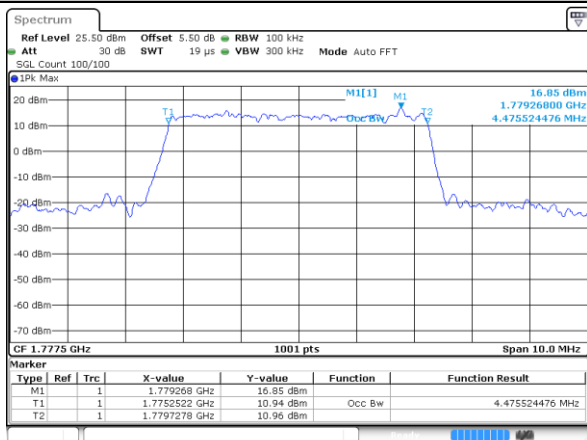


Date: 4 SEP 2020 11:01:02

Date: 4 SEP 2020 11:00:42

Highest Channel

Highest Channel



Date: 4 SEP 2020 11:04:37

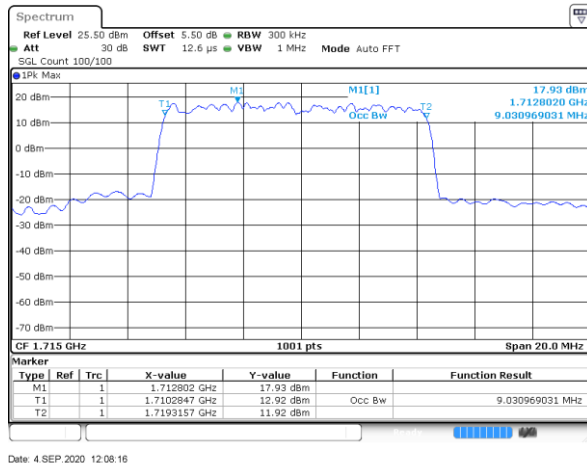
Date: 4 SEP 2020 11:05:20



5G NR n66 / 10MHz / DFT-S OFDM

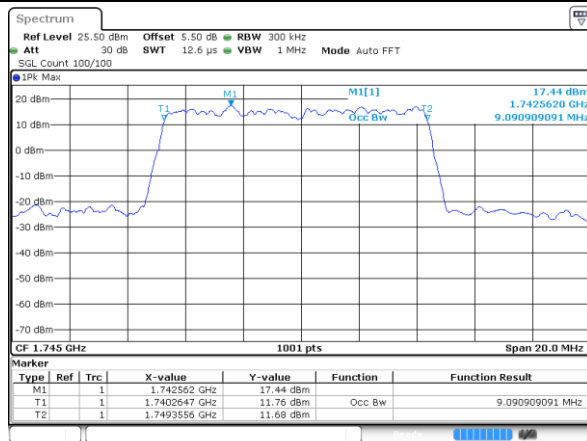
PI/2 BPSK

Lowest Channel



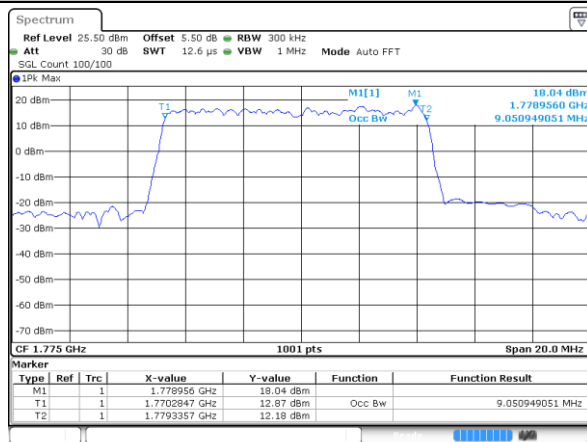
Date: 4 SEP 2020 12:08:16

Middle Channel

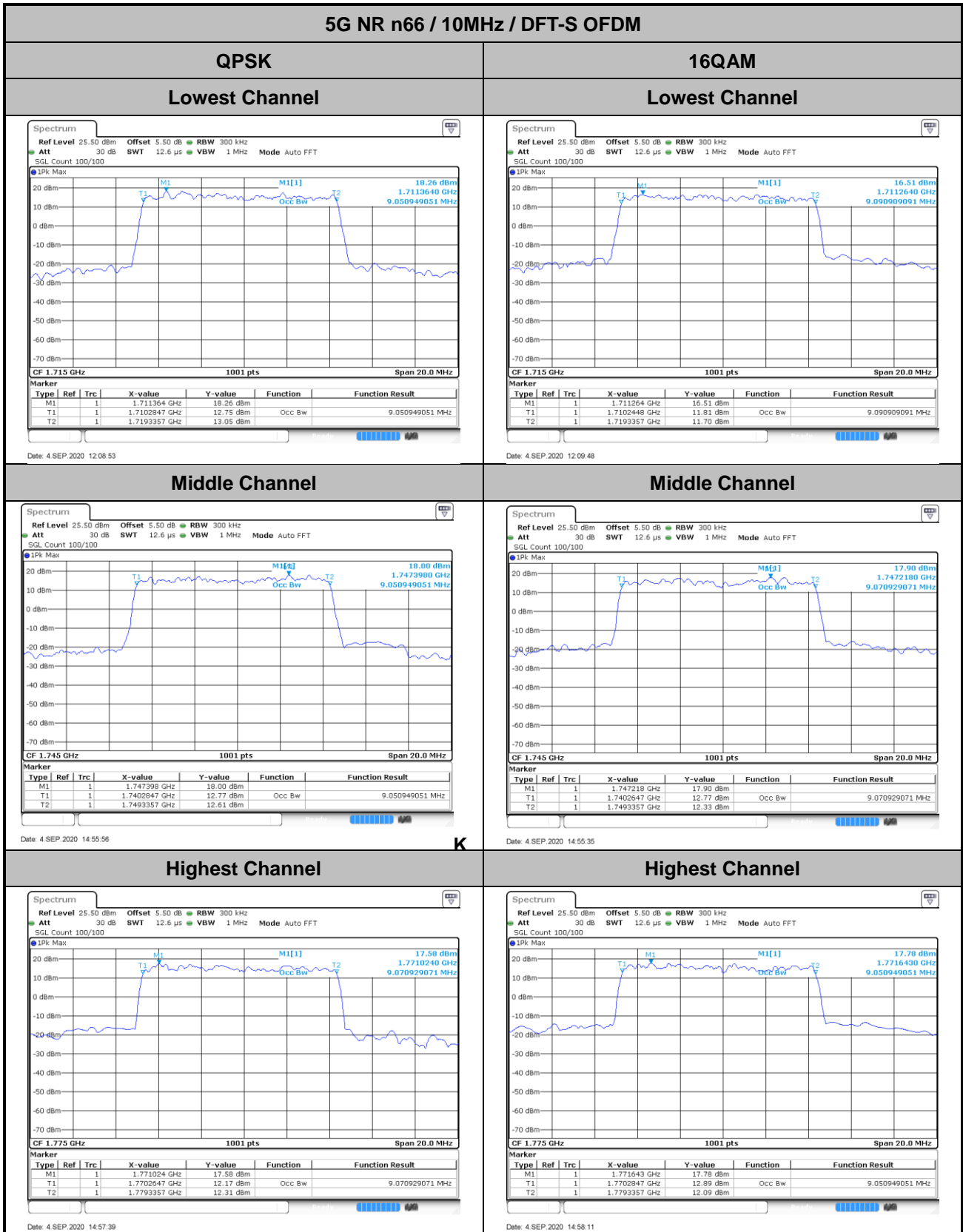


Date: 4 SEP 2020 14:56:20

Highest Channel



Date: 4 SEP 2020 14:57:00





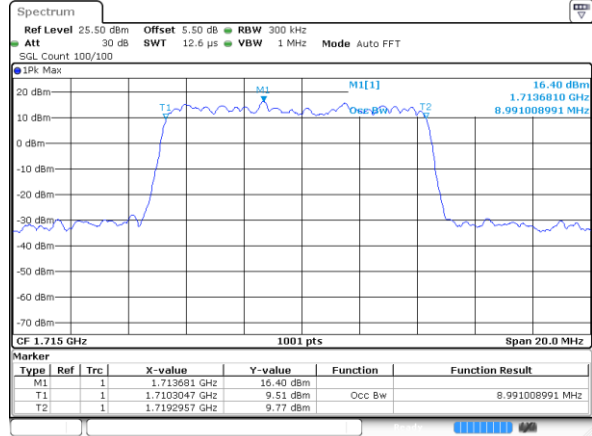
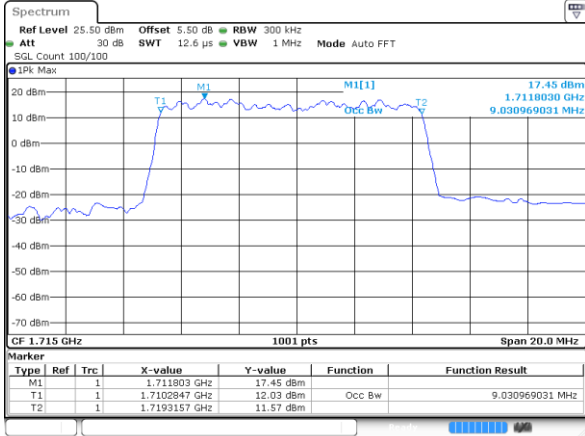
5G NR n66 / 10MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

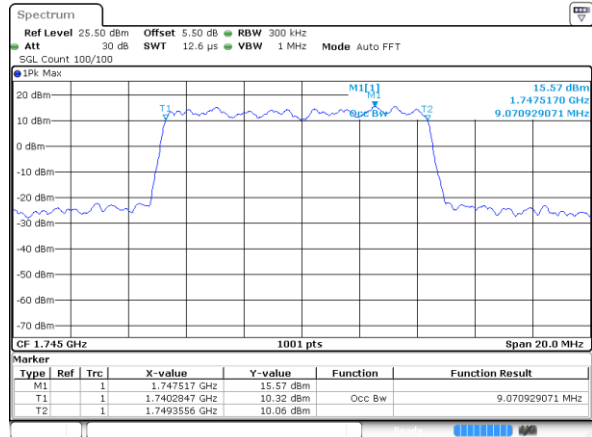
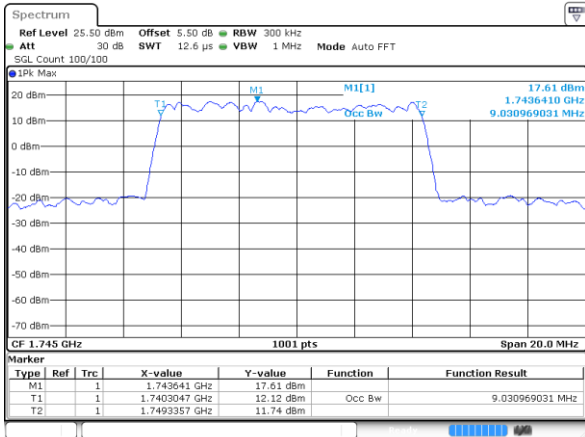


Date: 4 SEP 2020 12:10:26

Date: 4 SEP 2020 12:11:04

Middle Channel

Middle Channel

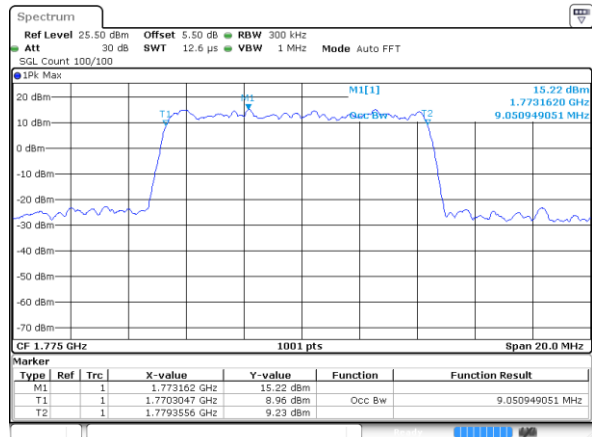
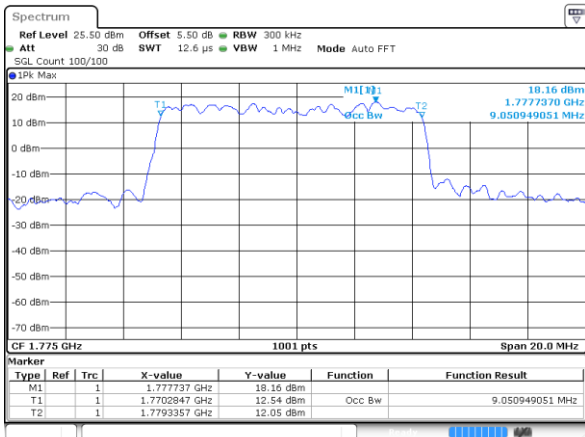


Date: 4 SEP 2020 14:55:13

Date: 4 SEP 2020 14:54:50

Highest Channel

Highest Channel



Date: 4 SEP 2020 14:58:46

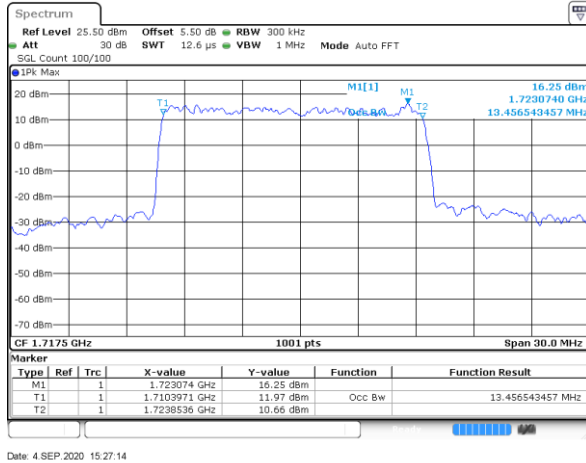
Date: 4 SEP 2020 14:59:34



5G NR n66 / 15MHz / DFT-S OFDM

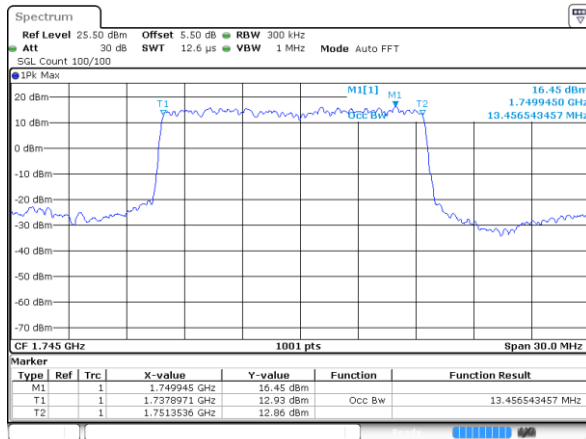
PI/2 BPSK

Lowest Channel



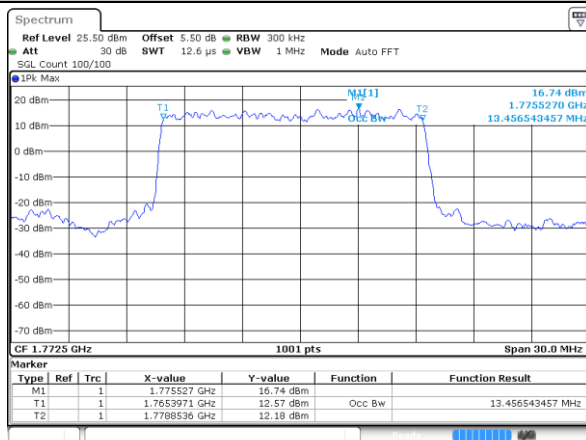
Date: 4 SEP. 2020 15:27:14

Middle Channel



Date: 4 SEP. 2020 15:43:25

Highest Channel



Date: 4 SEP. 2020 16:16:23



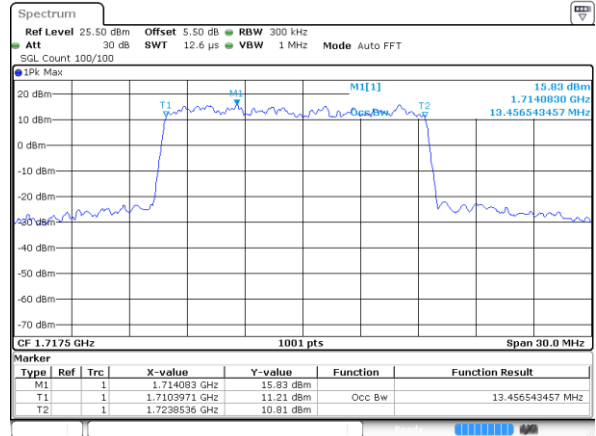
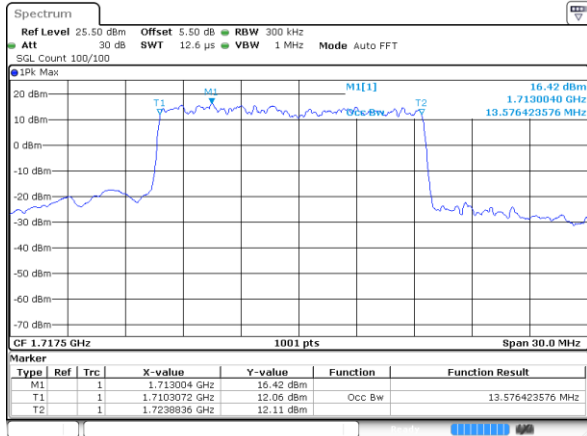
5G NR n66 / 15MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

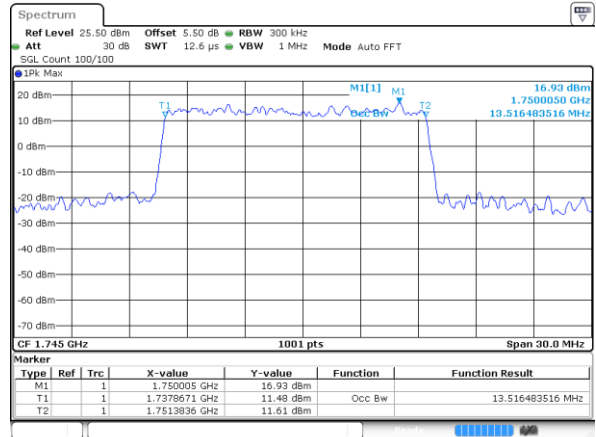
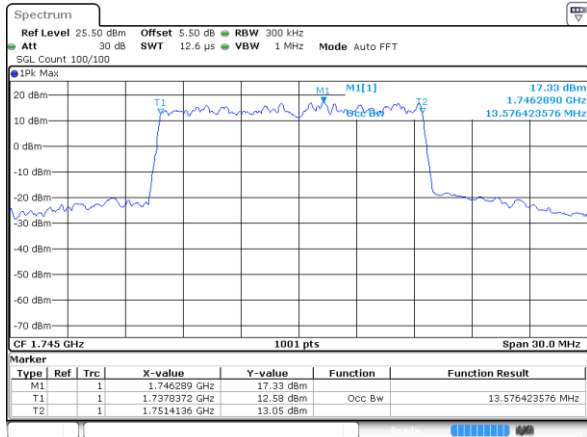


Date: 4 SEP 2020 15:27:48

Date: 4 SEP 2020 15:28:19

Middle Channel

Middle Channel

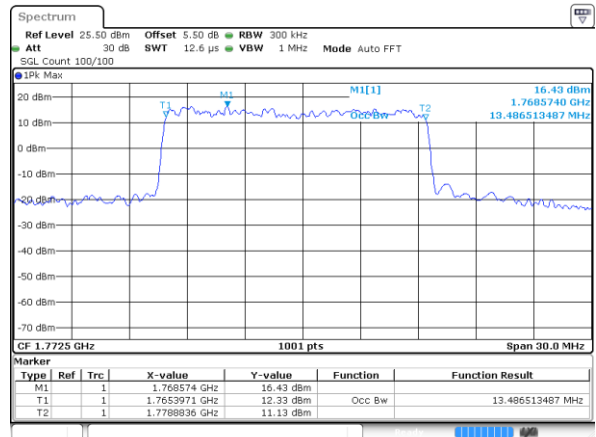
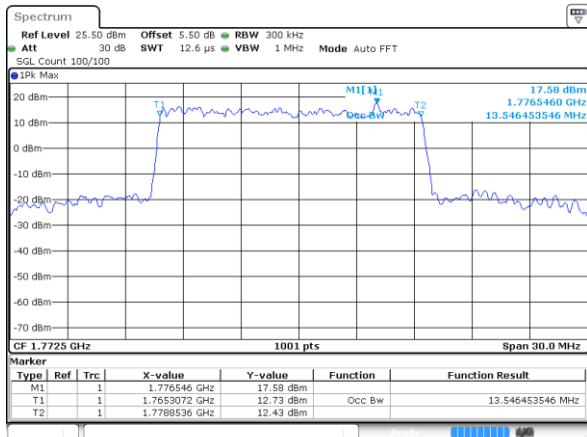


Date: 4 SEP 2020 15:43:00

Date: 4 SEP 2020 15:42:40

Highest Channel

Highest Channel



Date: 4 SEP 2020 16:16:57

Date: 4 SEP 2020 16:17:29



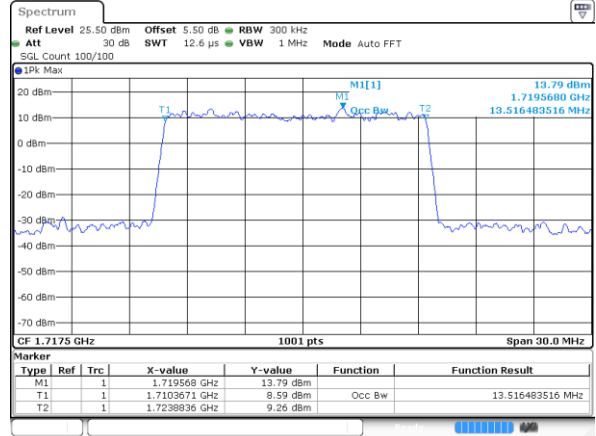
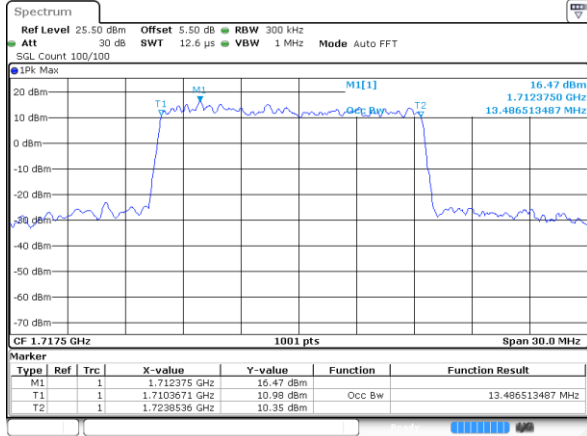
5G NR n66 / 15MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

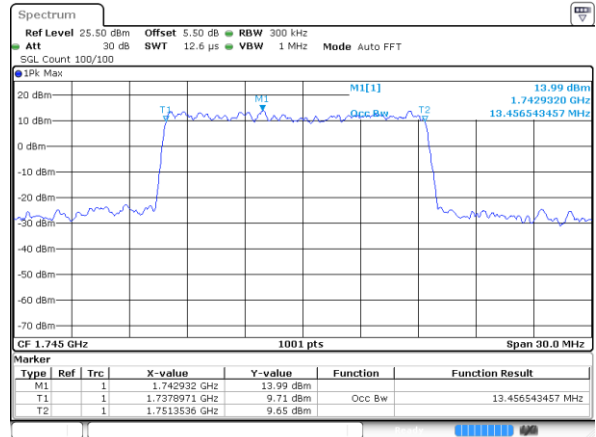
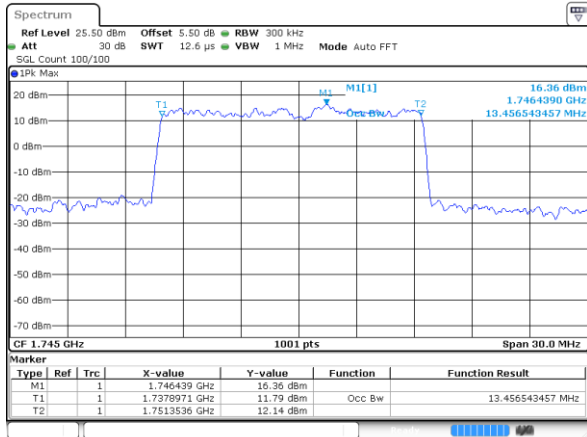


Date: 4 SEP 2020 15:29:10

Date: 4 SEP 2020 15:30:00

Middle Channel

Middle Channel

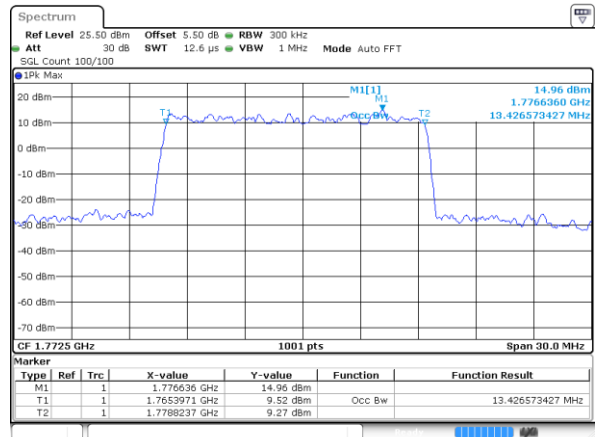
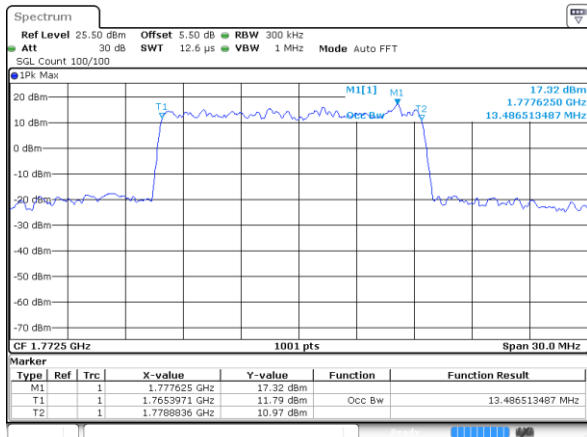


Date: 4 SEP 2020 15:42:18

Date: 4 SEP 2020 15:41:57

Highest Channel

Highest Channel



Date: 4 SEP 2020 16:18:04

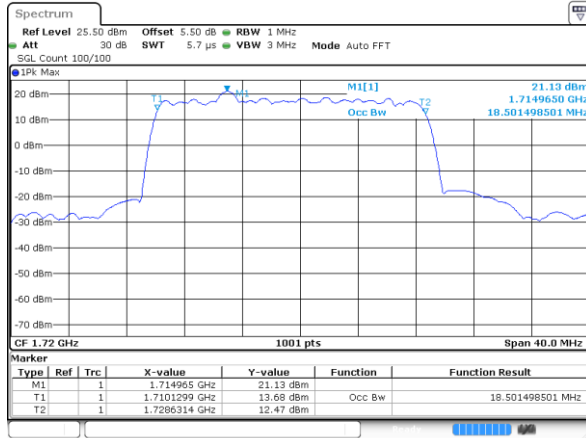
Date: 4 SEP 2020 16:18:39



5G NR n66 / 20MHz / DFT-S OFDM

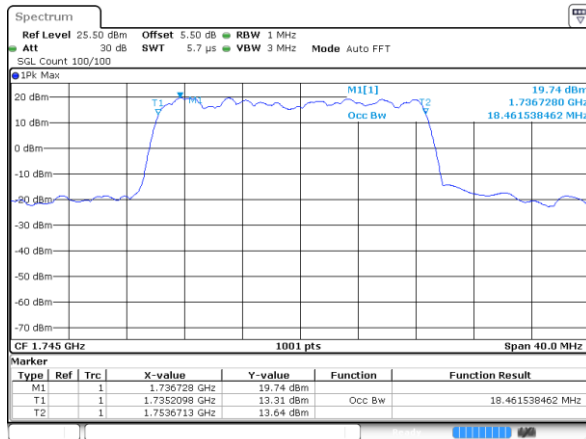
PI/2 BPSK

Lowest Channel



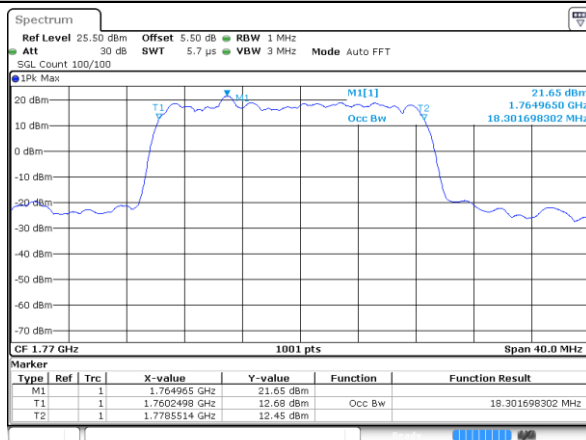
Date: 4 SEP 2020 16:27:08

Middle Channel



Date: 4 SEP 2020 16:52:48

Highest Channel



Date: 4 SEP 2020 16:58:41



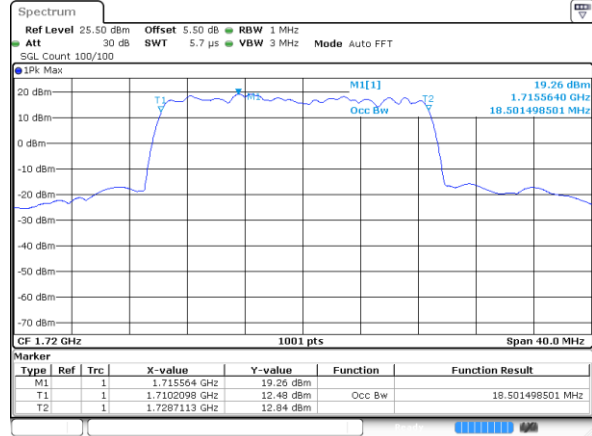
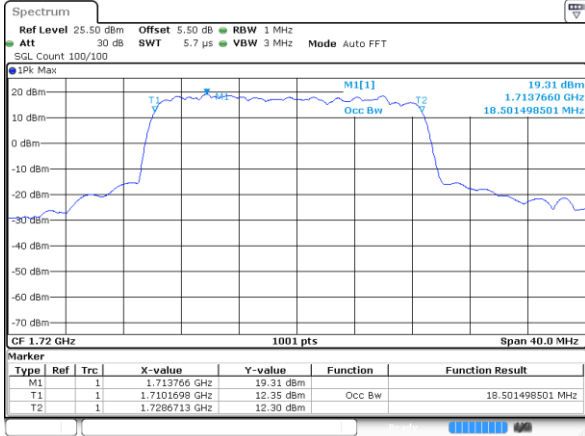
5G NR n66 / 20MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

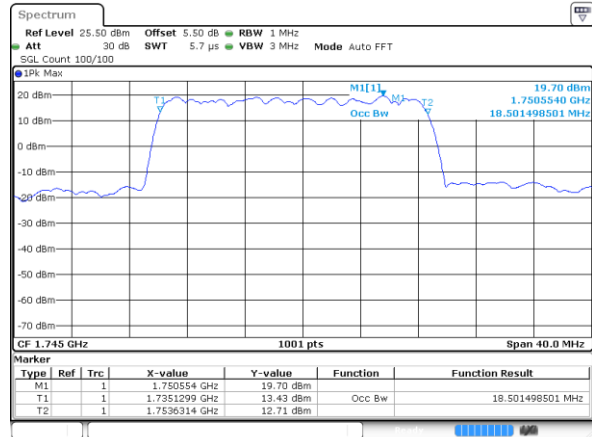
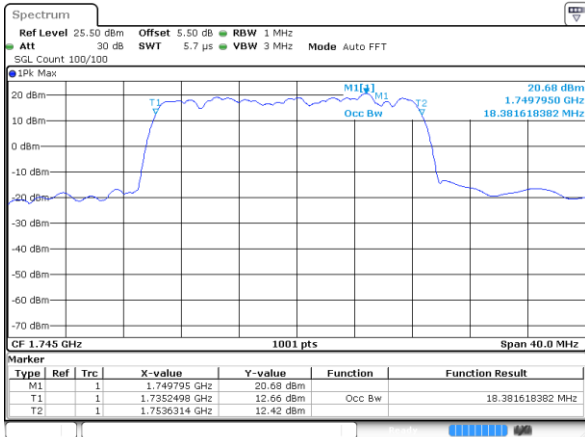


Date: 4 SEP 2020 16:27:46

Date: 4 SEP 2020 16:28:29

Middle Channel

Middle Channel

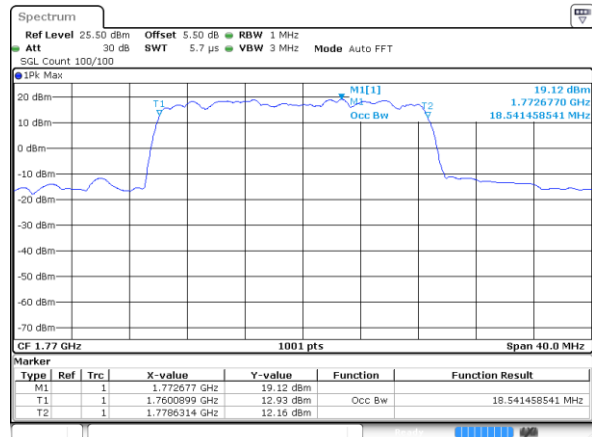
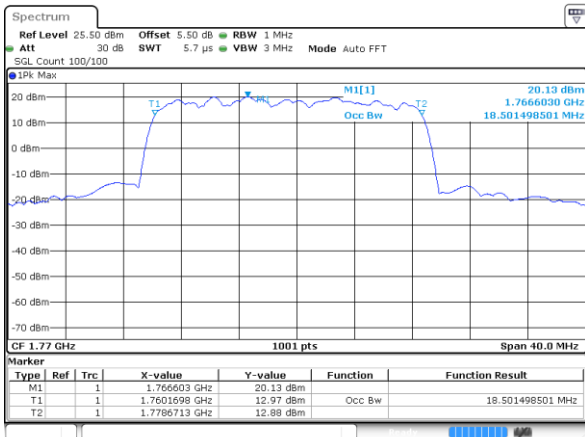


Date: 4 SEP 2020 16:53:18

Date: 4 SEP 2020 16:53:50

Highest Channel

Highest Channel



Date: 4 SEP 2020 16:57:55

Date: 4 SEP 2020 16:57:16



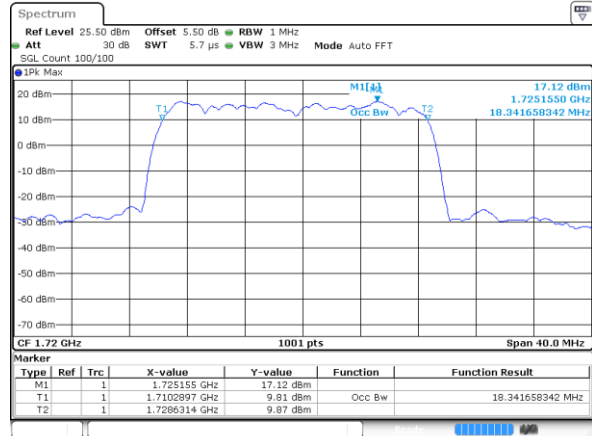
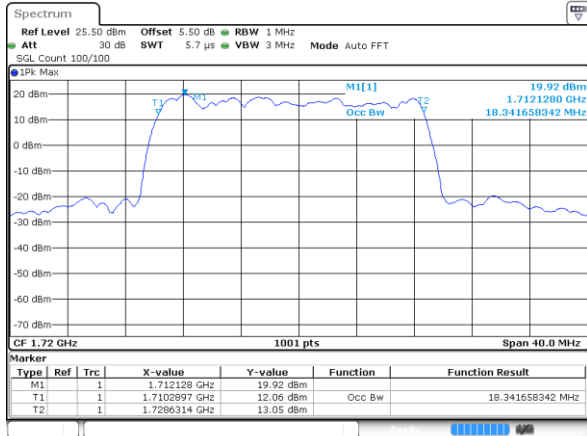
5G NR n66 / 20MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

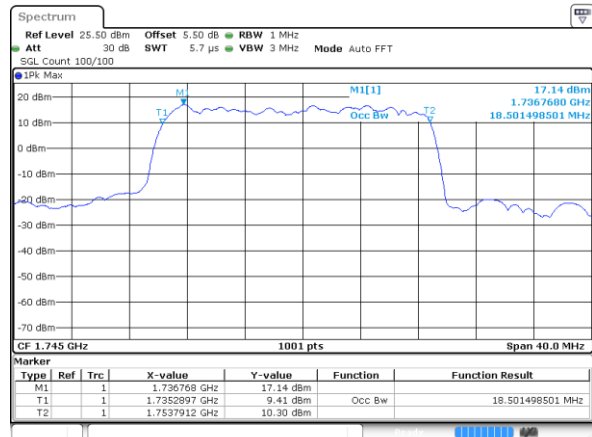
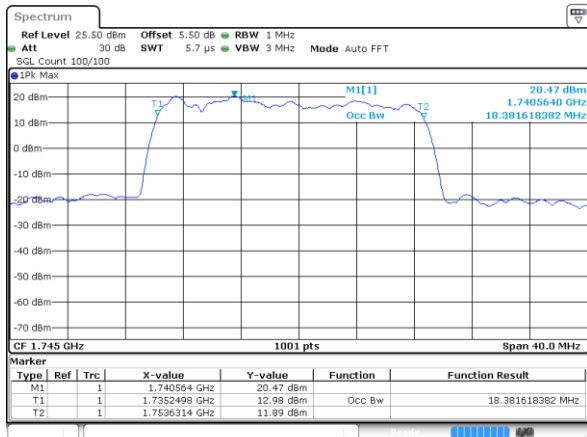


Date: 4 SEP 2020 16:29:02

Date: 4 SEP 2020 16:29:53

Middle Channel

Middle Channel

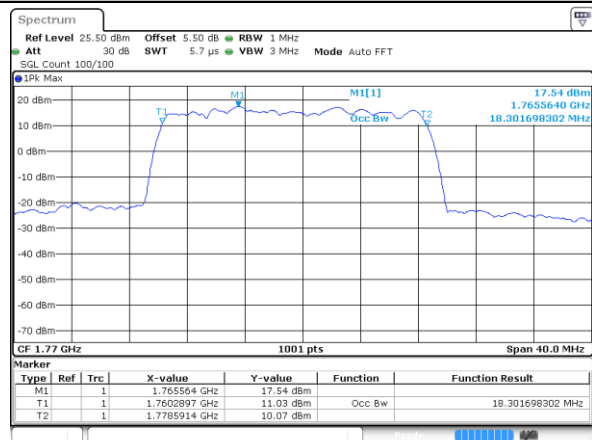
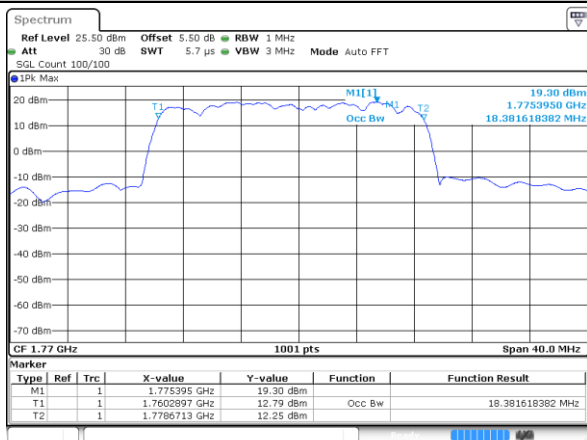


Date: 4 SEP 2020 16:54:20

Date: 4 SEP 2020 16:55:08

Highest Channel

Highest Channel

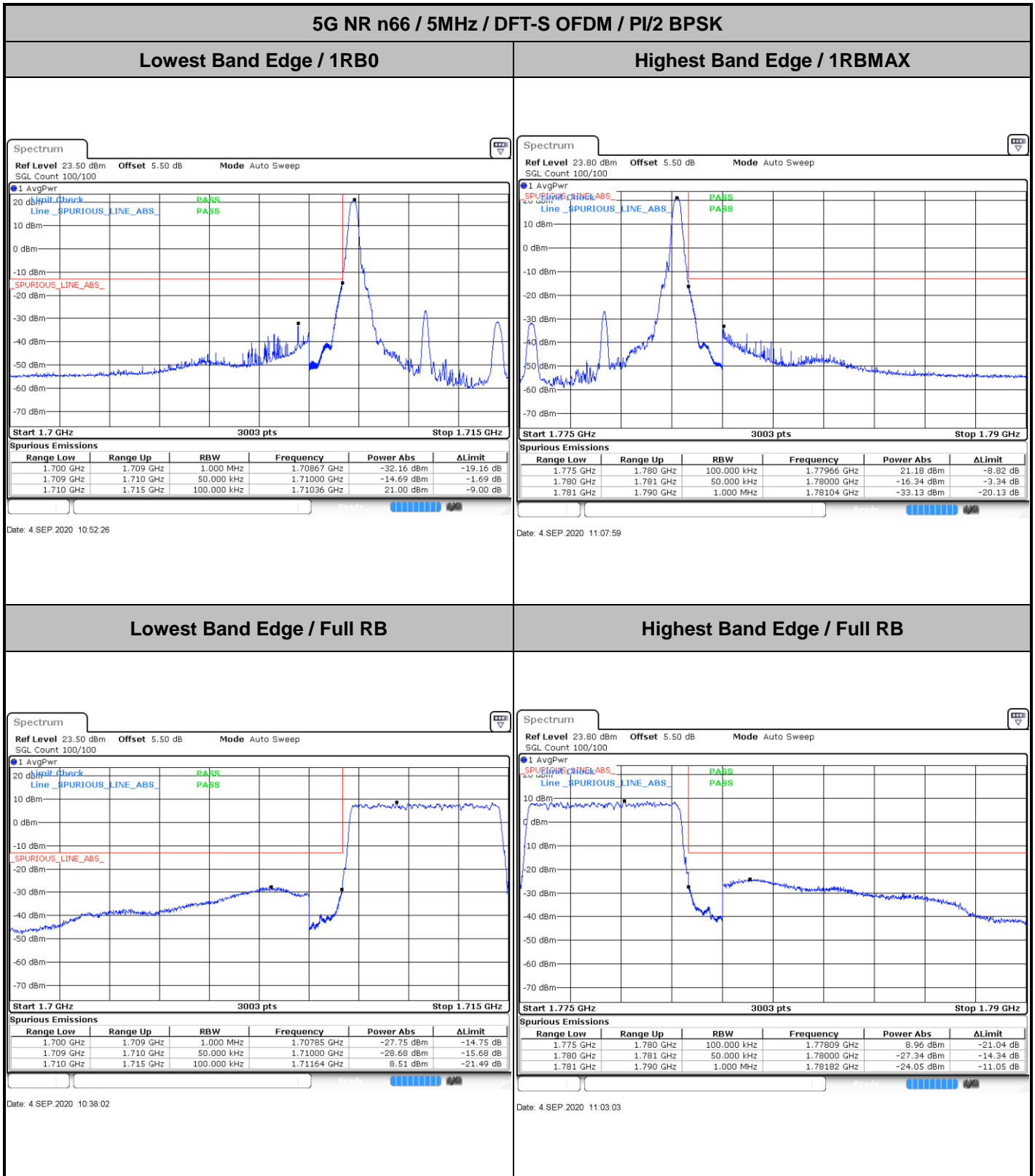


Date: 4 SEP 2020 16:56:33

Date: 4 SEP 2020 16:55:50



Conducted Band Edge

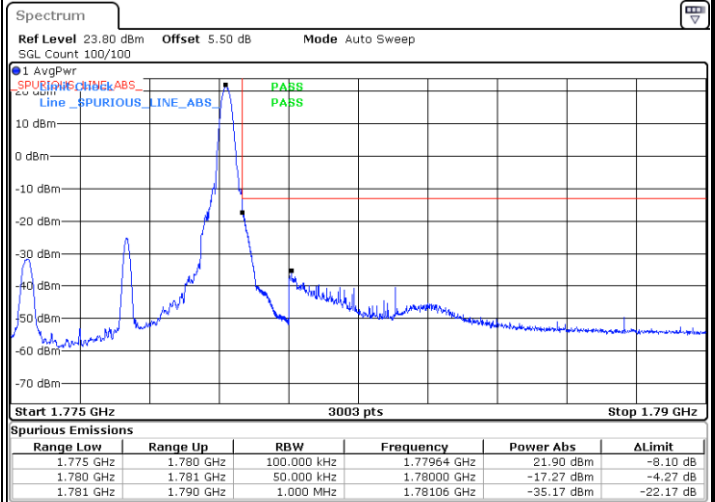
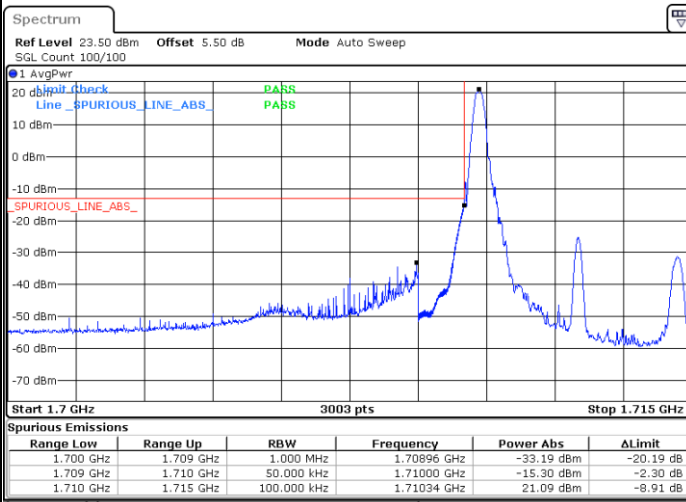




5G NR n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

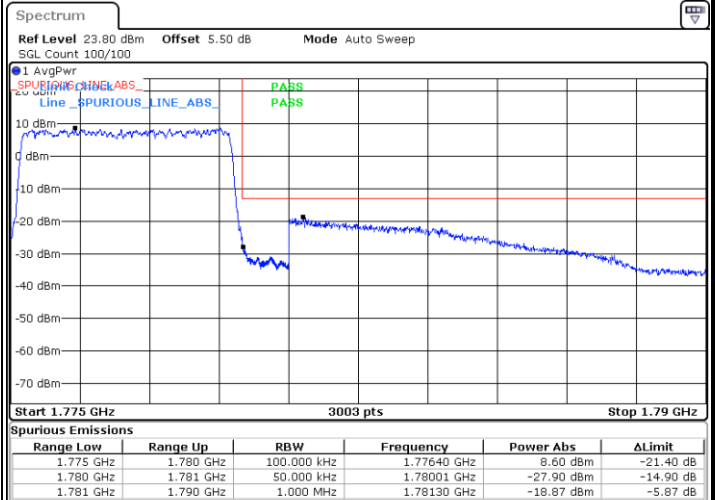
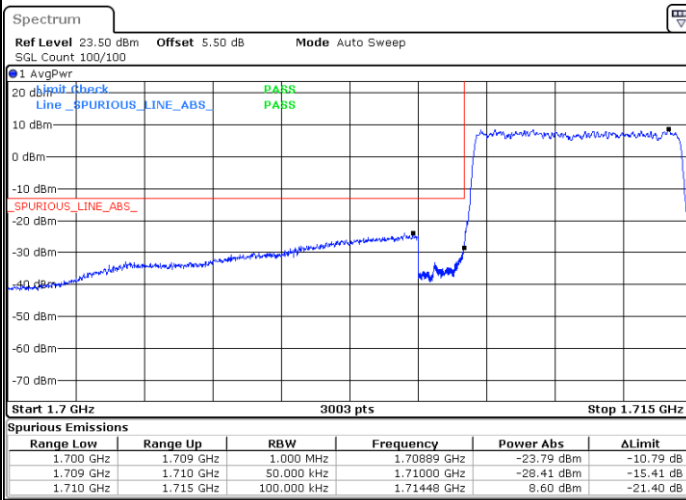


Date: 4 SEP.2020 10:50:10

Date: 4 SEP.2020 11:07:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 SEP.2020 10:41:16

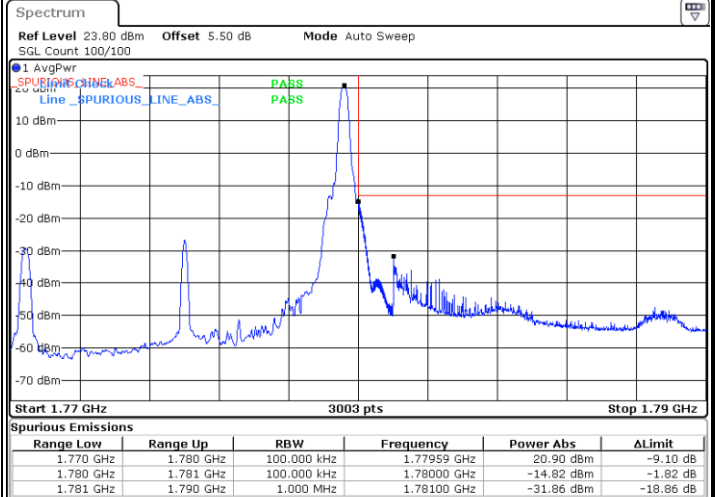
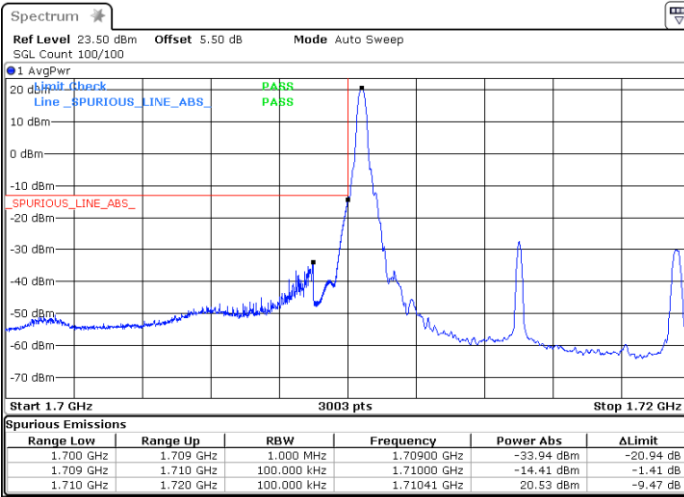
Date: 4 SEP.2020 11:03:42



5G NR n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

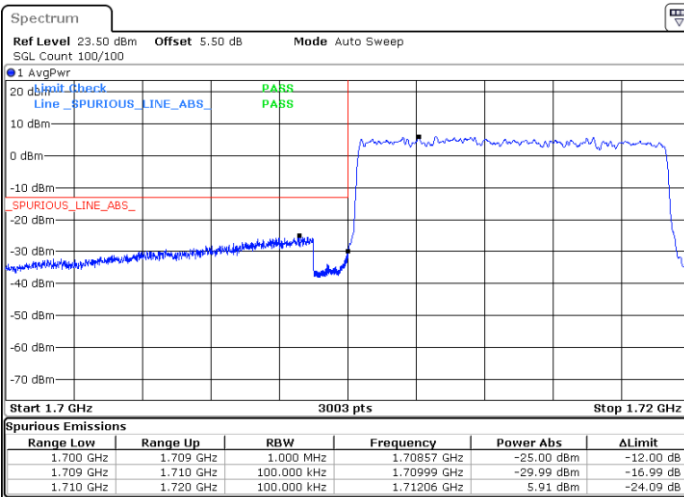


Date: 4 SEP.2020 14:41:40

Date: 4 SEP.2020 15:01:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 SEP.2020 12:08:39

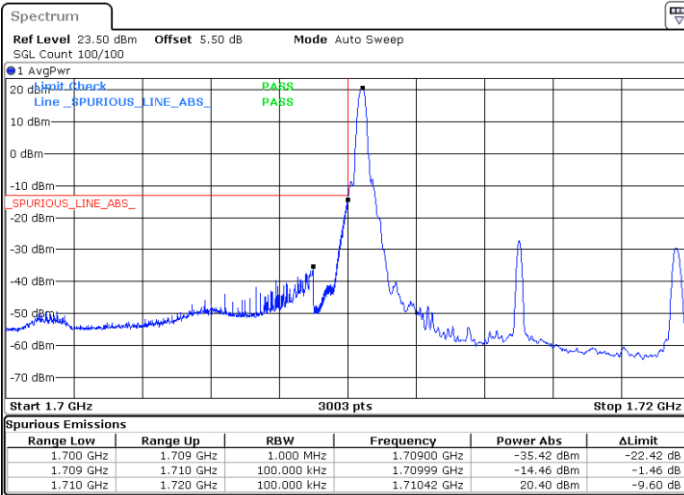
Date: 4 SEP.2020 14:57:23



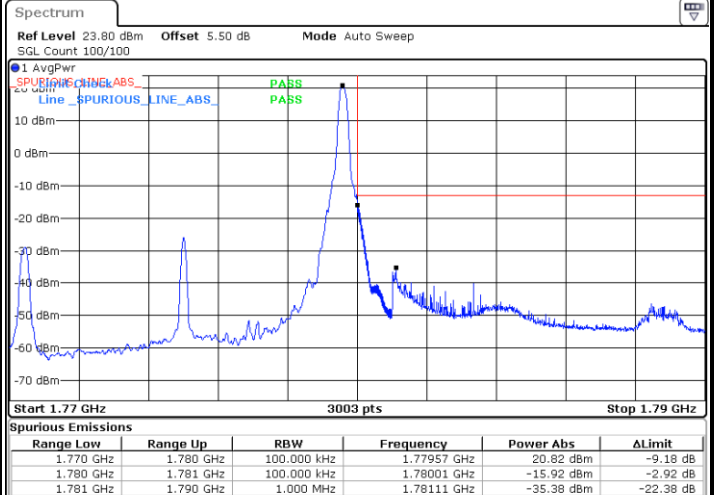
5G NR n66 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



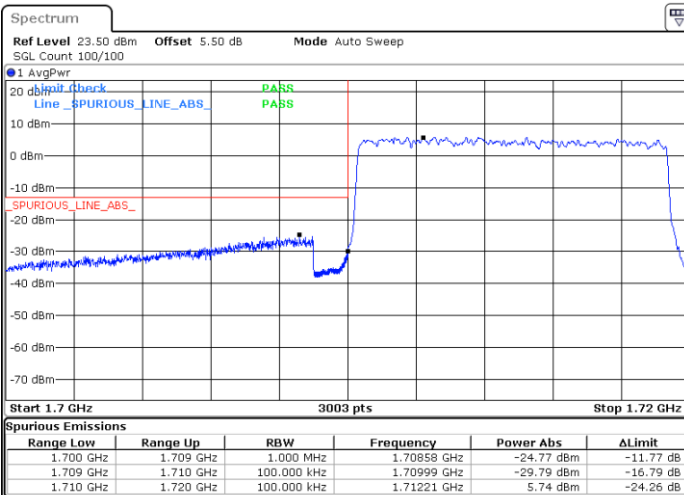
Date: 4 SEP.2020 14:42:37



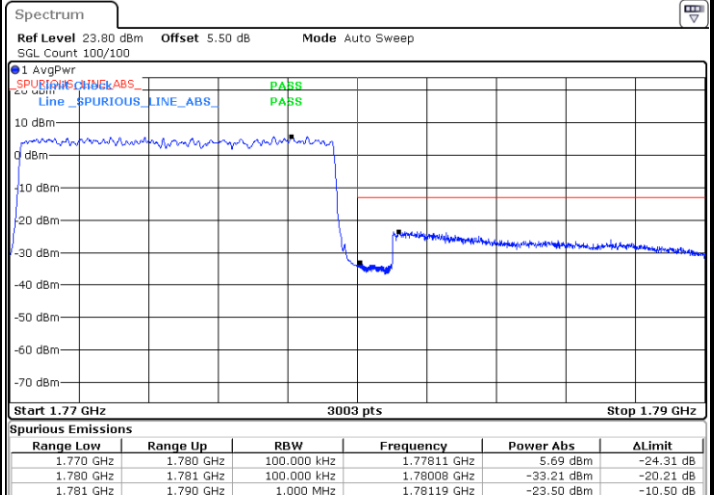
Date: 4 SEP.2020 15:01:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 SEP.2020 12:09:34



Date: 4 SEP.2020 14:57:57