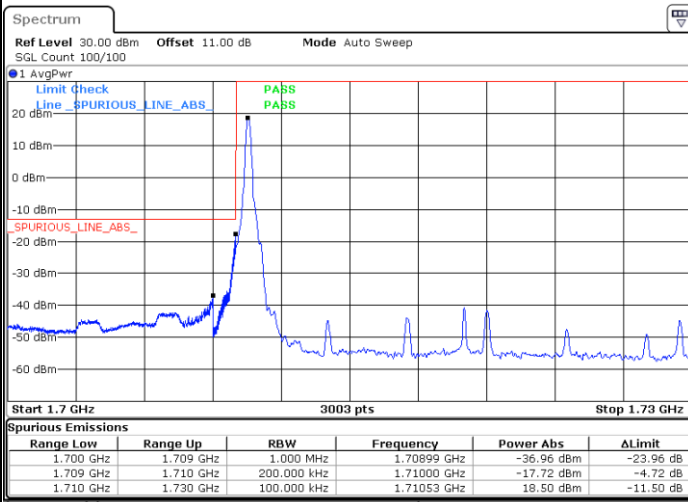




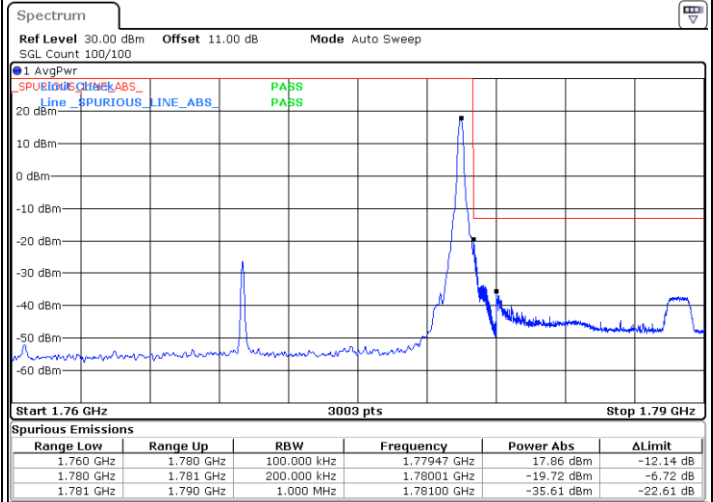
FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



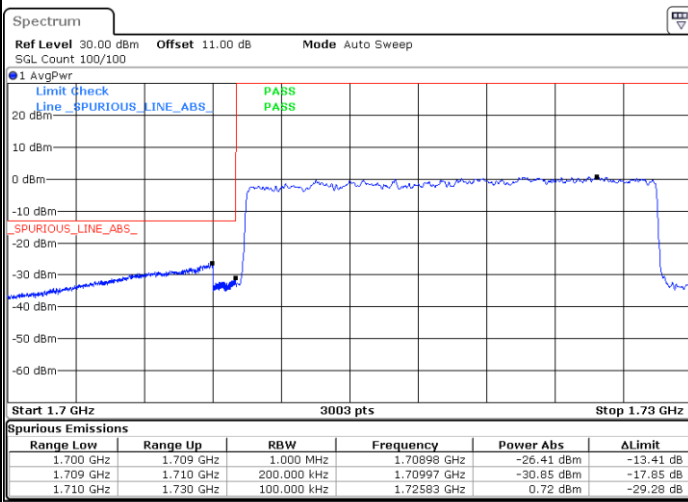
Date: 25.MAY.2020 09:49:53



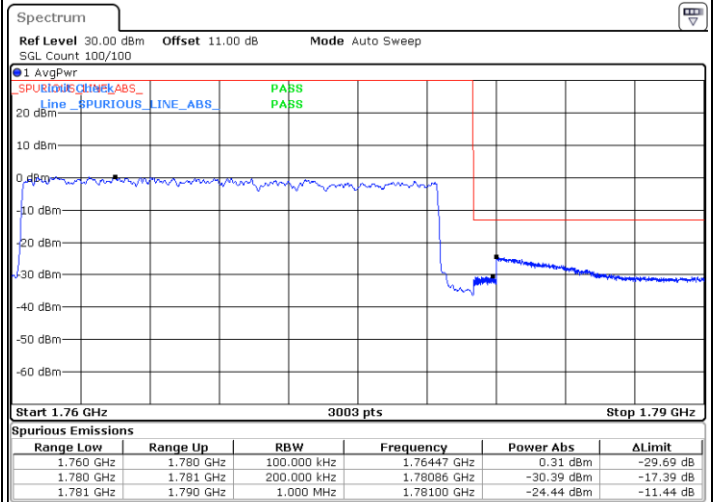
Date: 25.MAY.2020 14:33:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.MAY.2020 09:40:48



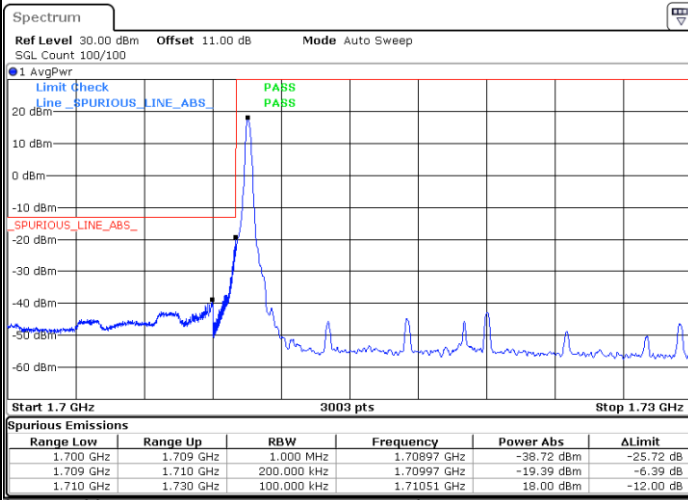
Date: 25.MAY.2020 14:27:46



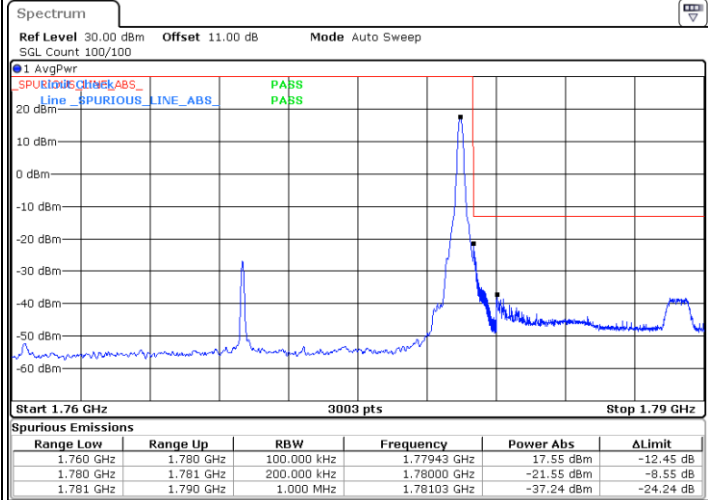
FR1 n66 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



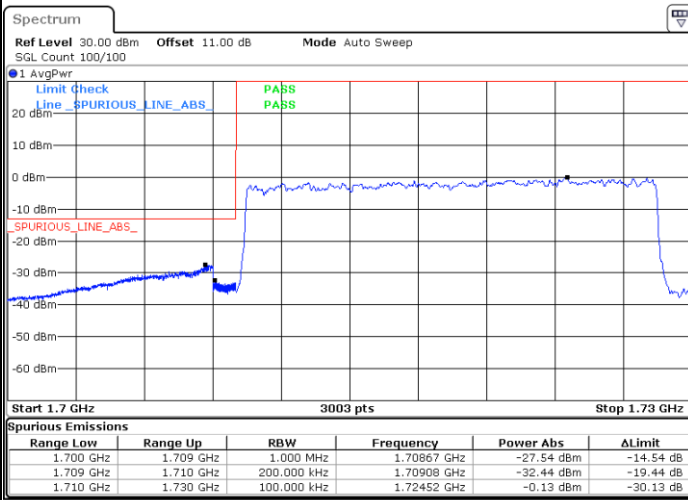
Date: 25.MAY.2020 09:48:53



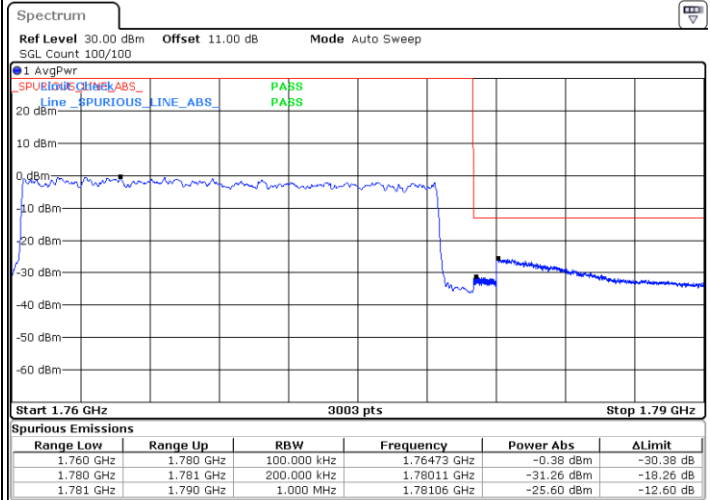
Date: 25.MAY.2020 14:34:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.MAY.2020 09:42:50



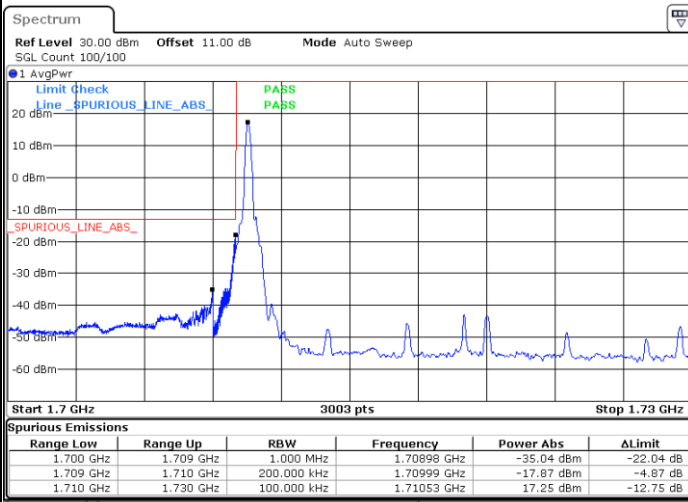
Date: 25.MAY.2020 14:25:46



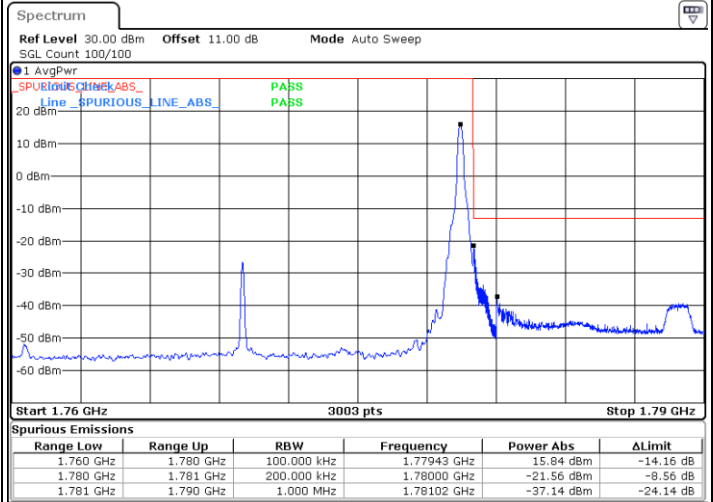
FR1 n66 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



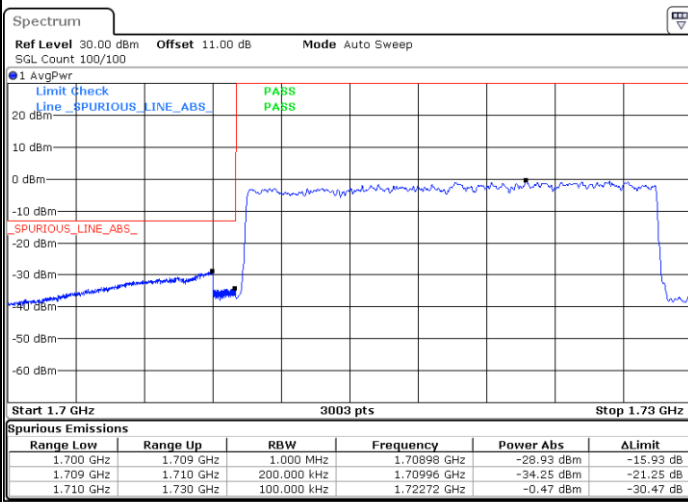
Date: 25.MAY.2020 09:47:55



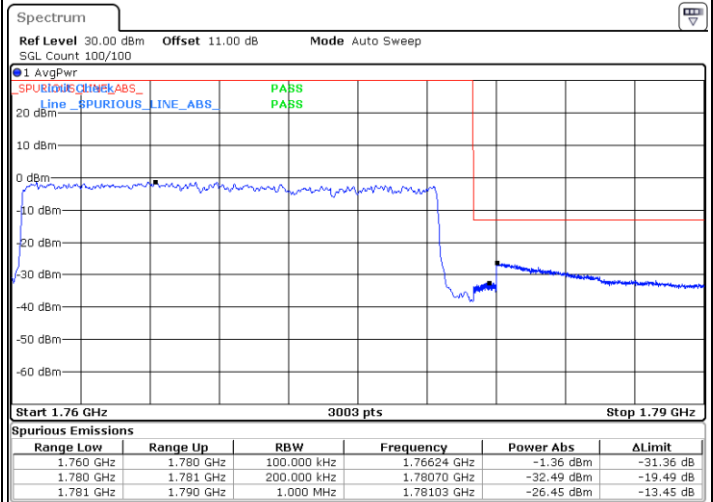
Date: 25.MAY.2020 14:35:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.MAY.2020 09:43:55



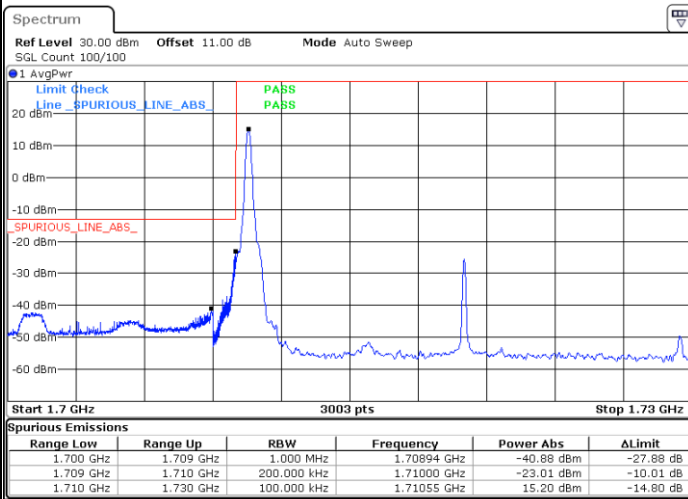
Date: 25.MAY.2020 14:24:44



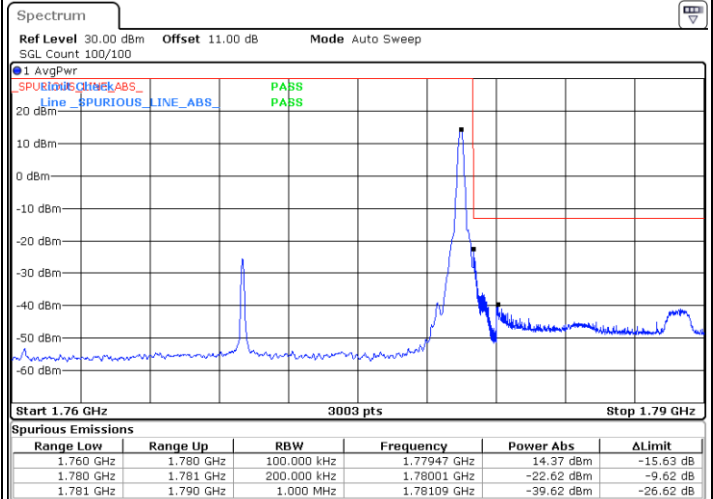
FR1 n66 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



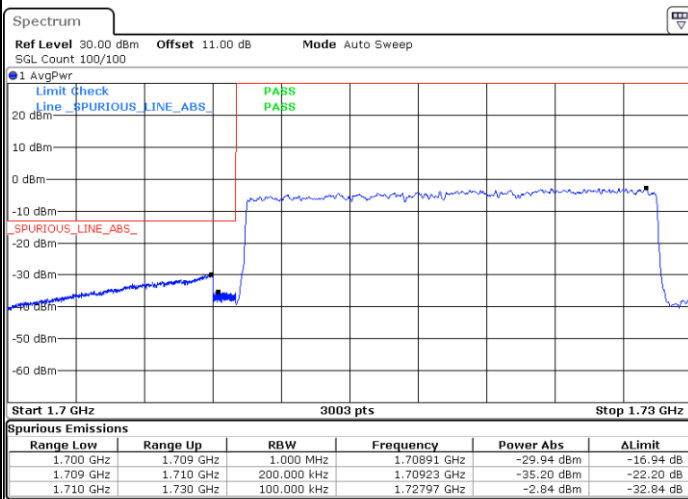
Date: 25.MAY.2020 15:21:13



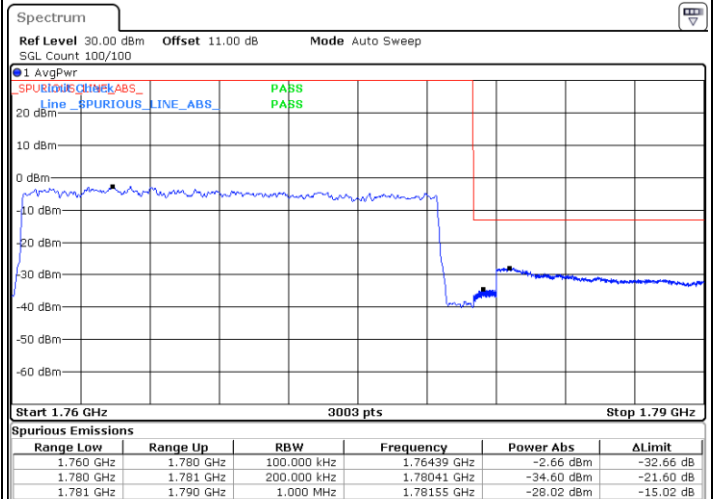
Date: 25.MAY.2020 14:36:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.MAY.2020 09:46:04

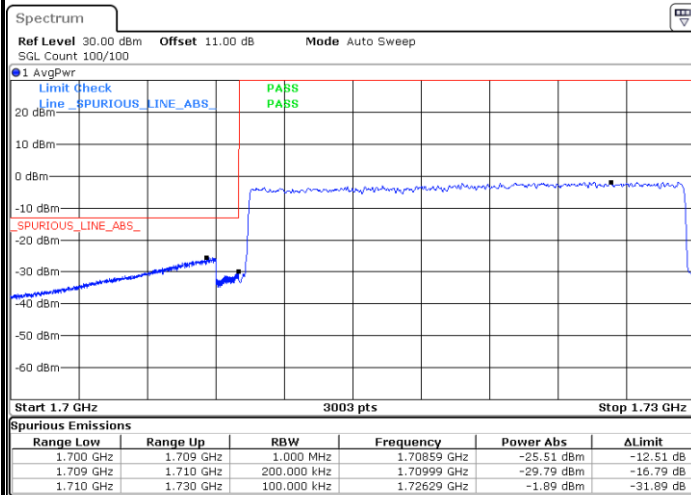


Date: 25.MAY.2020 14:22:48



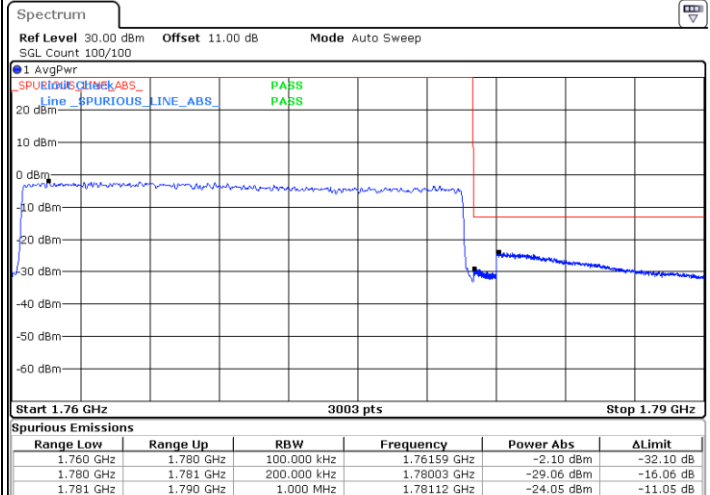
FR1 n66 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



Date: 25.MAY.2020 15:48:47

Highest Band Edge / Full RB



Date: 25.MAY.2020 16:11:24

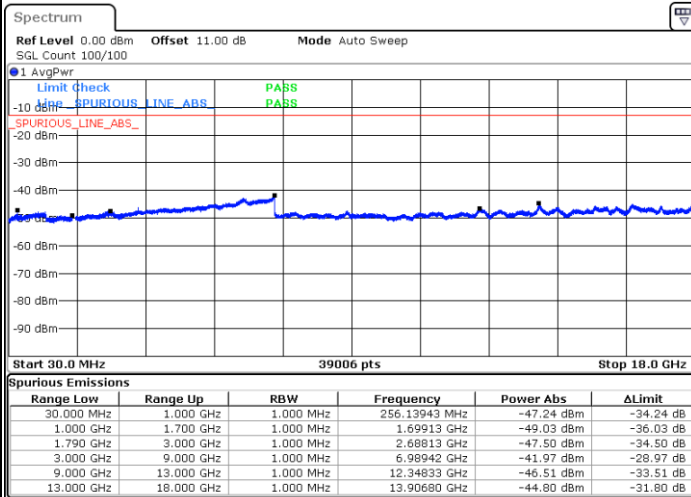


Conducted Spurious Emission

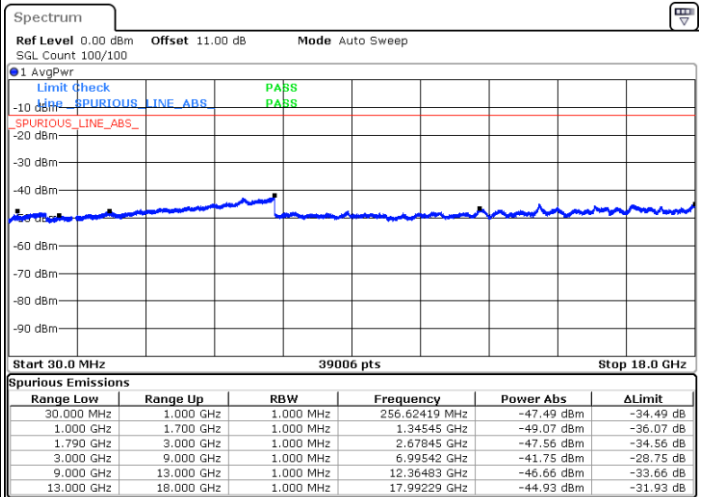
FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

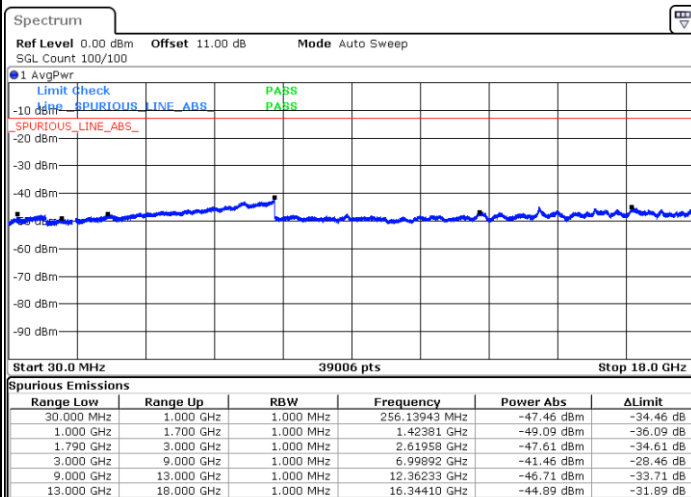


Date: 12.JUN.2020 02:07:52



Date: 12.JUN.2020 03:08:30

Highest Channel / 1RB1



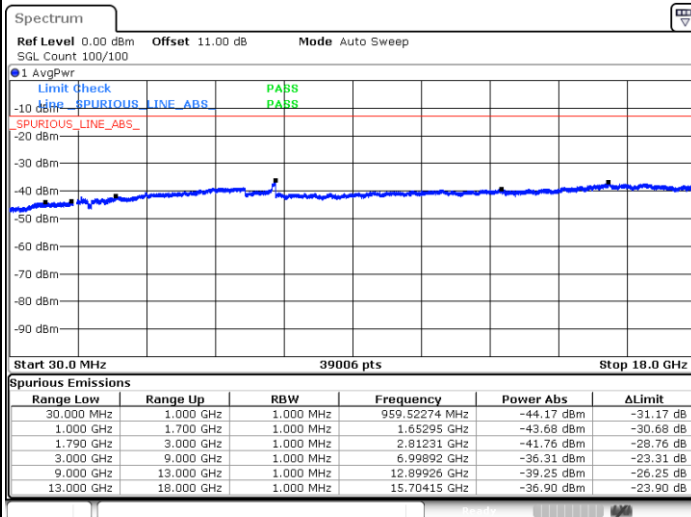
Date: 12.JUN.2020 03:17:47



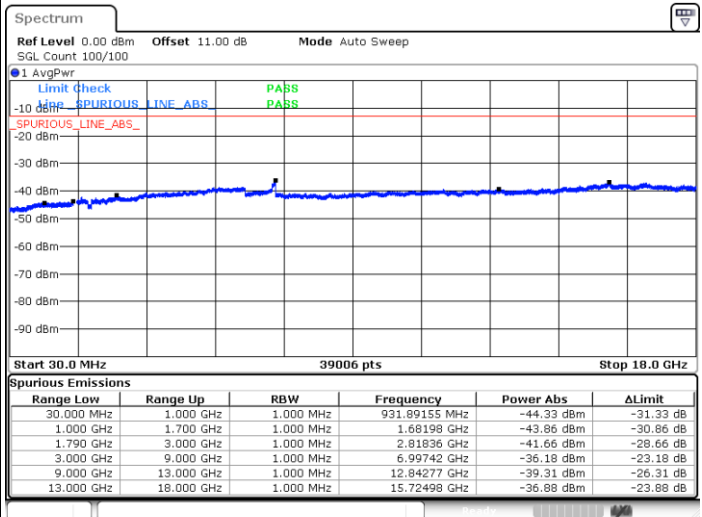
FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

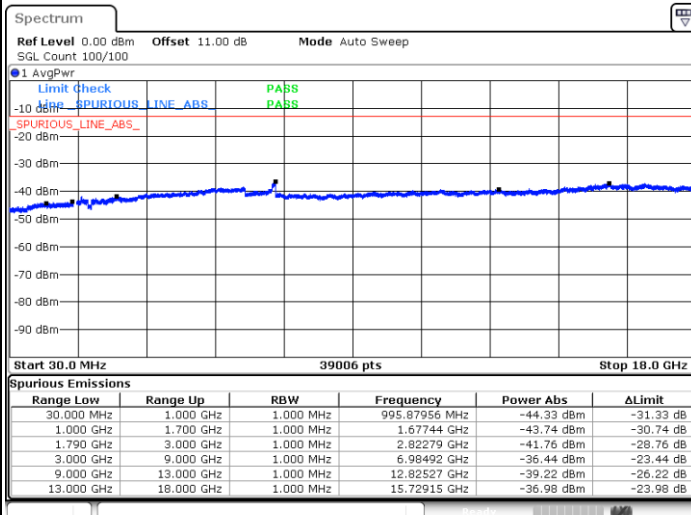


Date: 4.JUN.2020 14:51:21



Date: 4.JUN.2020 14:43:12

Highest Channel / 1RB1

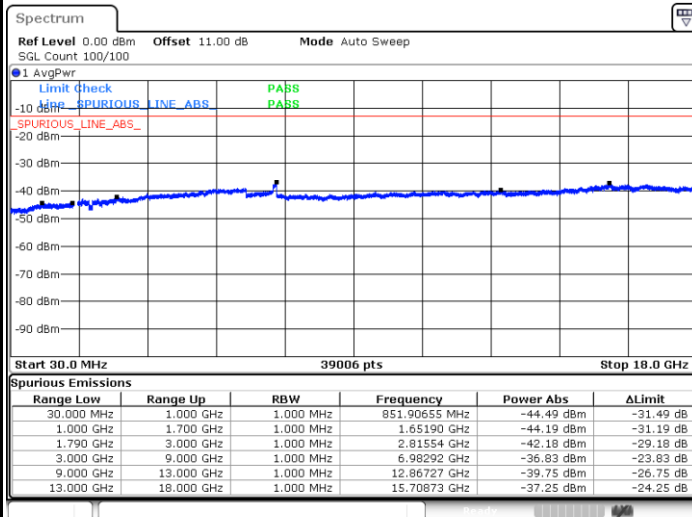


Date: 4.JUN.2020 16:28:59



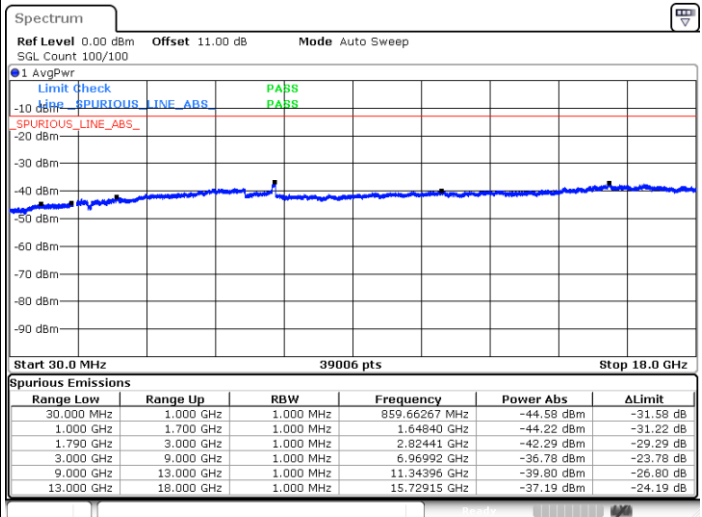
FR1 n66 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



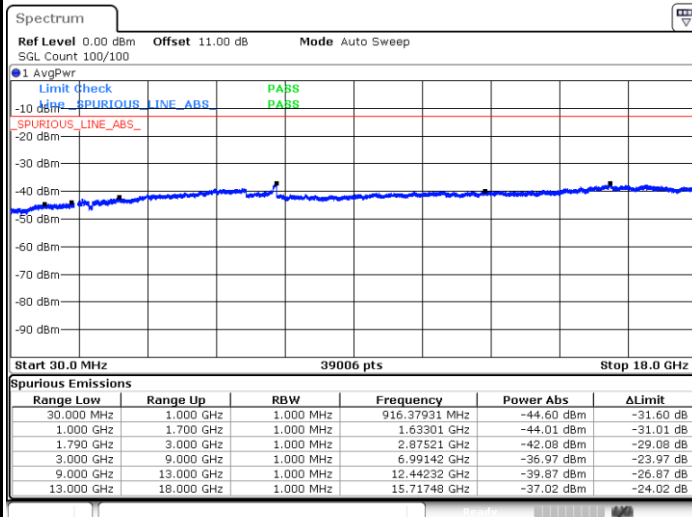
Date: 1.JUN.2020 11:35:39

Middle Channel / 1RB1



Date: 1.JUN.2020 11:21:29

Highest Channel / 1RB1

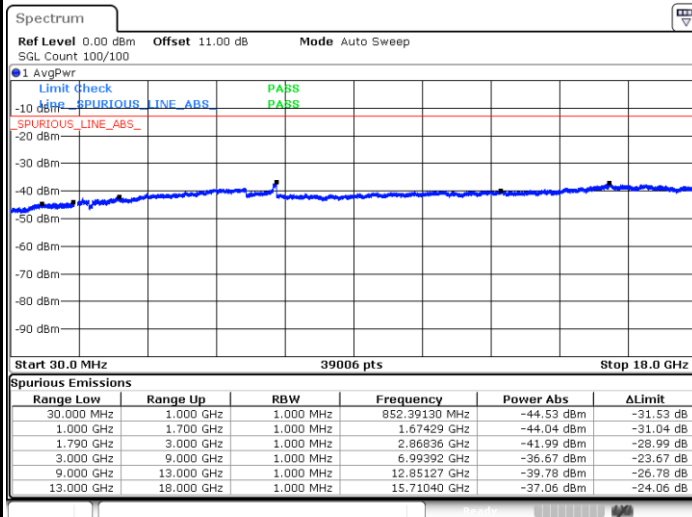


Date: 1.JUN.2020 14:47:50



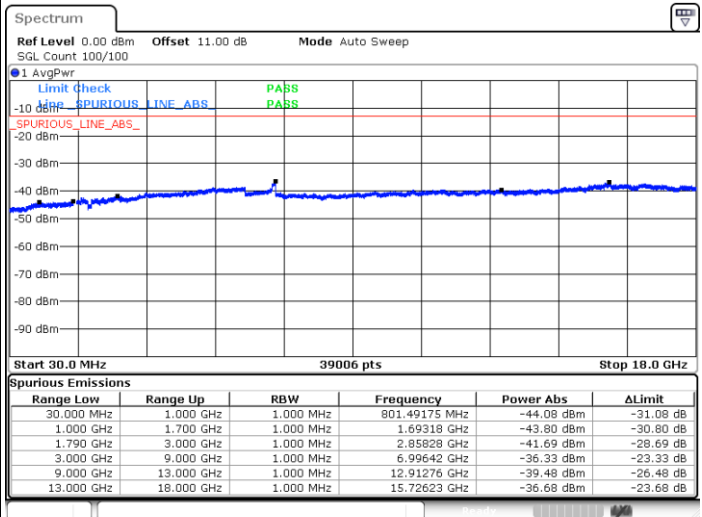
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



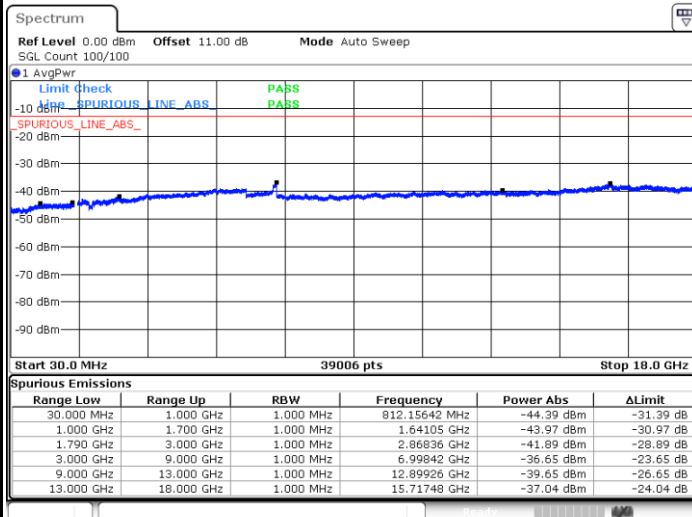
Date: 25.MAY.2020 15:43:41

Middle Channel / 1RB1



Date: 22.MAY.2020 16:43:28

Highest Channel / 1RB1



Date: 25.MAY.2020 14:59:25

Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n71

Peak-to-Average Ratio

Mode	FR1 n71 / 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	3.33	4.23	5.51	5.83	PASS
Middle CH	3.16	4.43	5.71	6.09	
Highest CH	3.42	4.55	5.74	6.09	
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	6.55				PASS
Middle CH	6.35				
Highest CH	6.55				

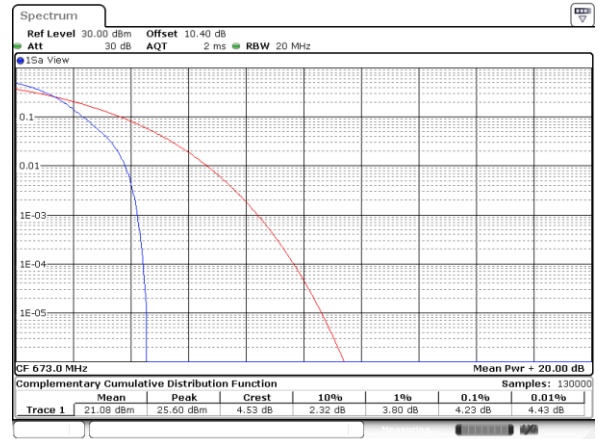
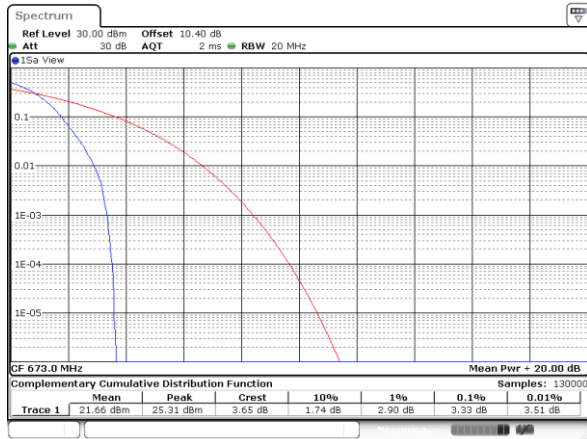
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

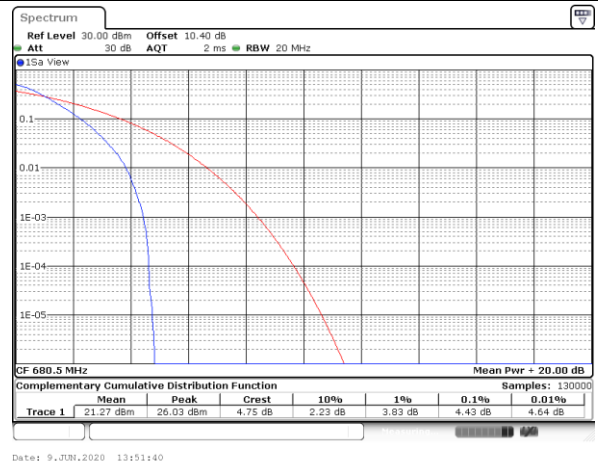
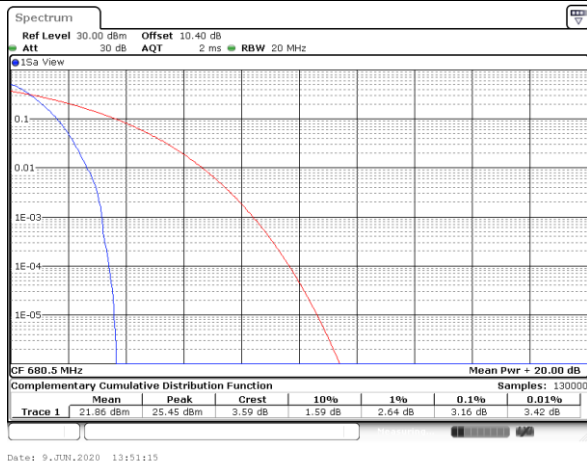
Lowest Channel / Full RB

Lowest Channel / Full RB



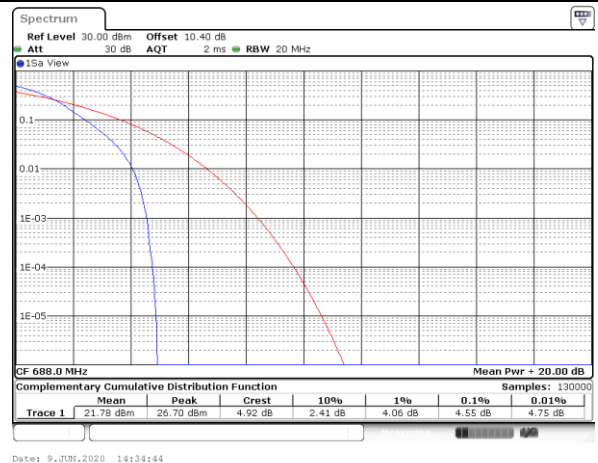
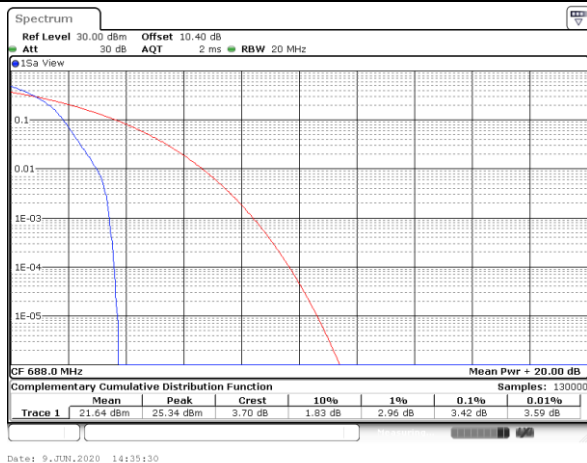
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

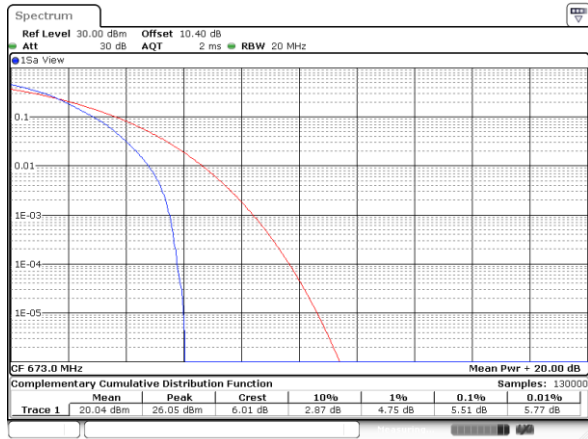
Highest Channel / Full RB



FR1 n71 / 20MHz / DFT-S OFDM

16QAM

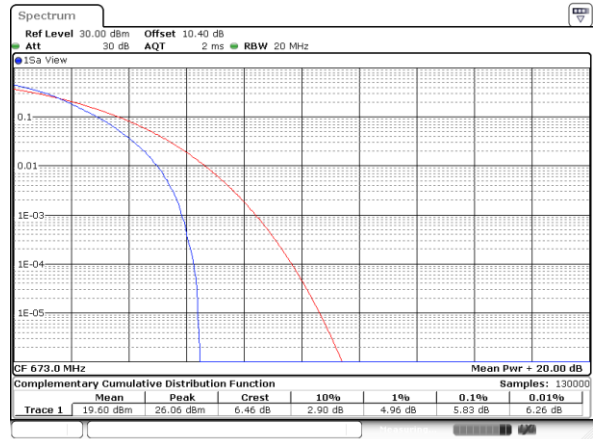
Lowest Channel / Full RB



Date: 9 JUN 2020 14:17:55

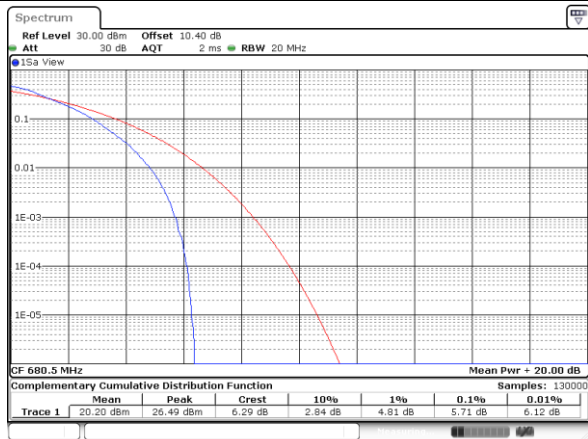
64QAM

Lowest Channel / Full RB



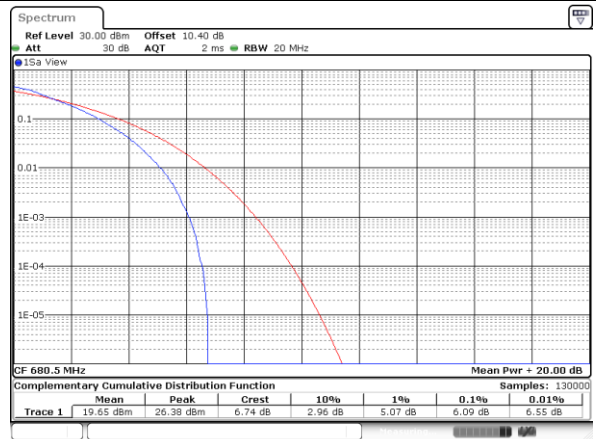
Date: 9 JUN 2020 14:18:23

Middle Channel / Full RB



Date: 9 JUN 2020 13:52:15

Middle Channel / Full RB



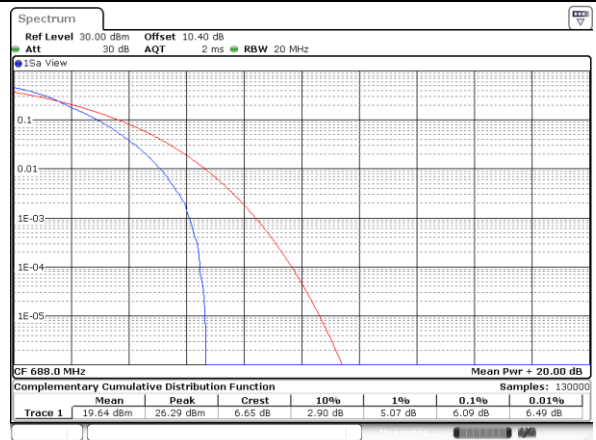
Date: 9 JUN 2020 13:52:31

Highest Channel / Full RB

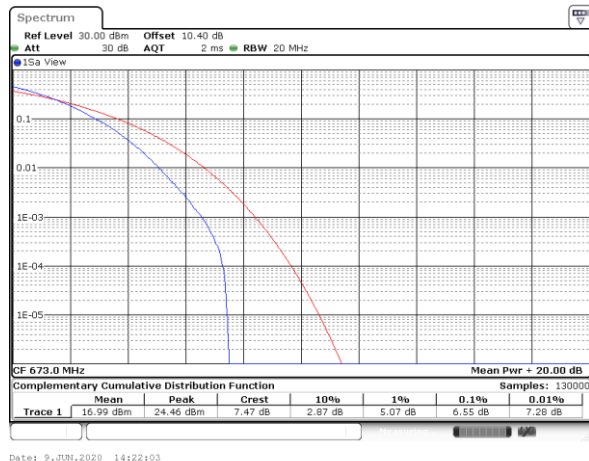
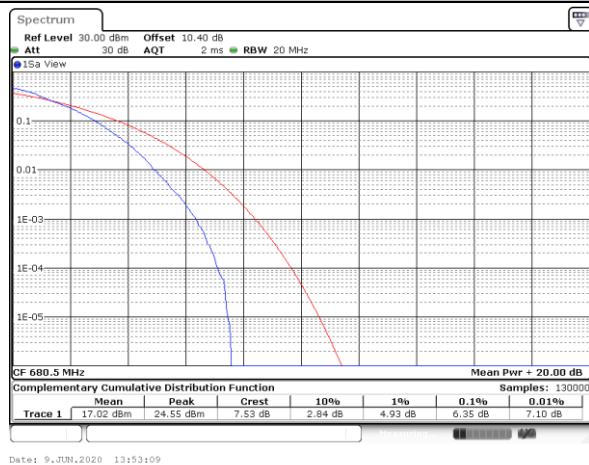
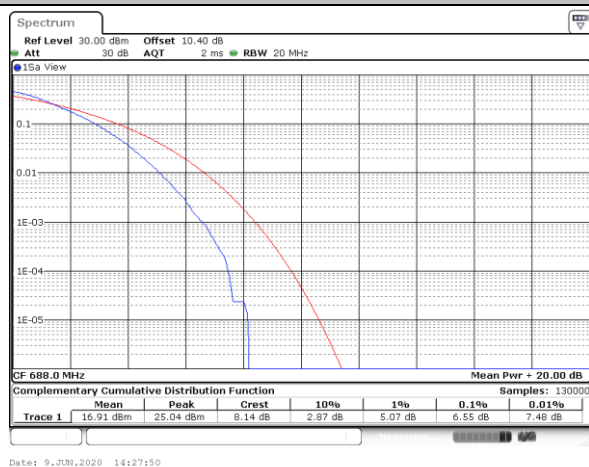


Date: 9 JUN 2020 14:31:24

Highest Channel / Full RB



Date: 9 JUN 2020 14:31:01

FR1 n71 / 20MHz / DFT-S OFDM
256QAM
Lowest Channel / Full RB

Middle Channel / Full RB

Highest Channel / Full RB


**26dB Bandwidth**

Mode	FR1 n71 : 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	5.38		9.75		14.15		18.74	
Middle CH	5.46		9.75		14.15		18.70	
Highest CH	5.23		9.61		14.39		18.74	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.42	5.22	10.17	10.17	14.93	14.90	19.74	19.90
Middle CH	5.22	5.24	10.05	10.27	15.08	14.93	19.74	19.78
Highest CH	5.27	5.17	10.07	10.15	14.99	14.93	19.82	19.82

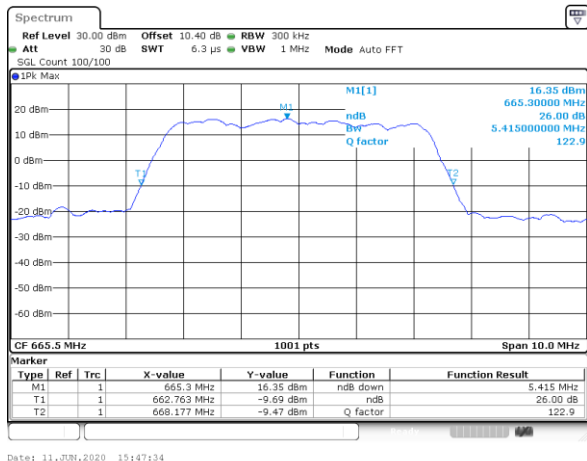
Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.17	5.35	10.07	10.15	14.96	15.05	19.78	19.82
Middle CH	5.41	5.34	10.03	10.17	14.84	15.02	19.78	19.74
Highest CH	5.27	5.26	10.03	10.07	14.87	14.93	19.86	19.82



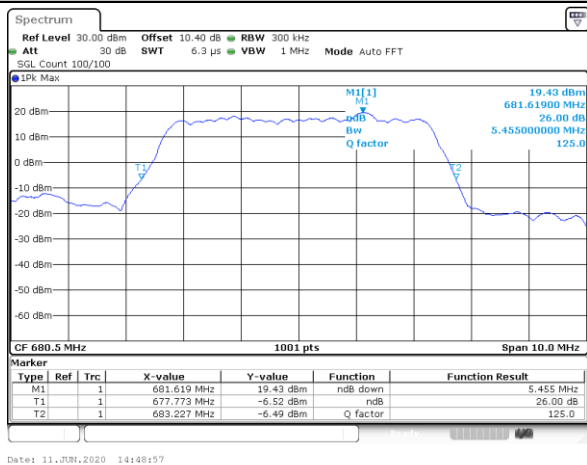
FR1 n71 / 5MHz / DFT-S OFDM

PI/2 BPSK

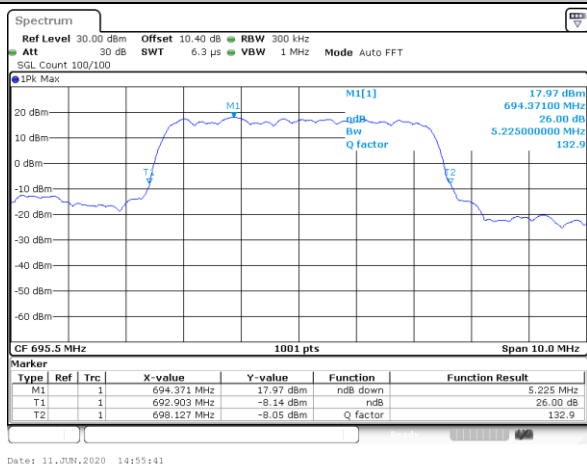
Lowest Channel



Middle Channel



Highest Channel

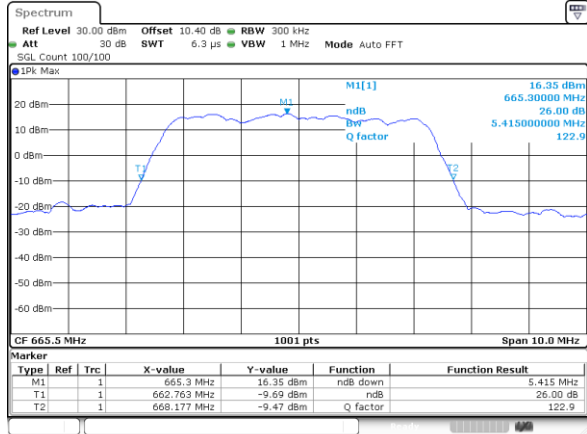




FR1 n71 / 5MHz / CP OFDM

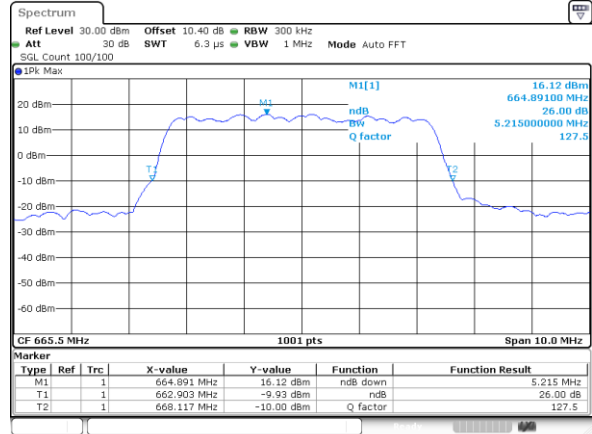
QPSK

Lowest Channel

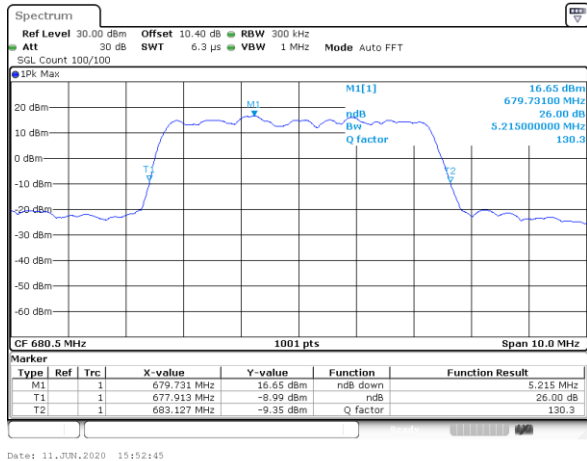


16QAM

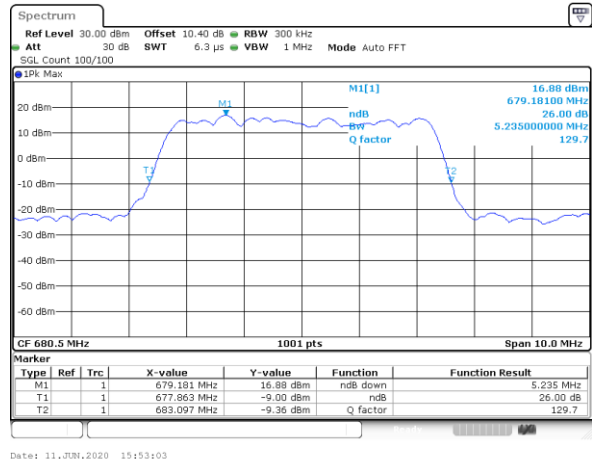
Lowest Channel



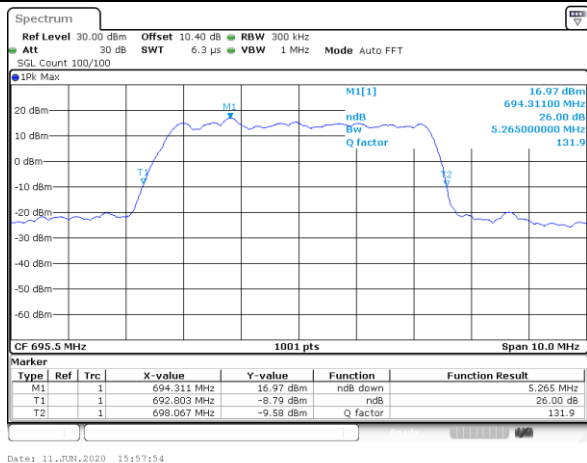
Middle Channel



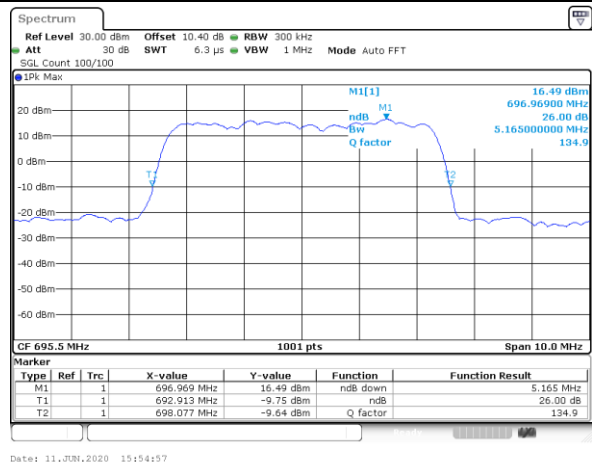
Middle Channel



Highest Channel



Highest Channel

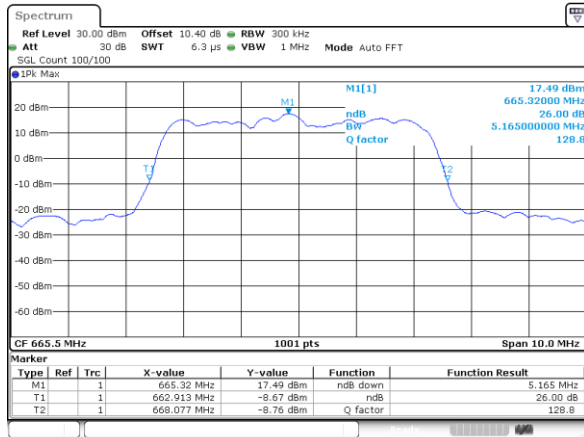




FR1 n71 / 5MHz / CP OFDM

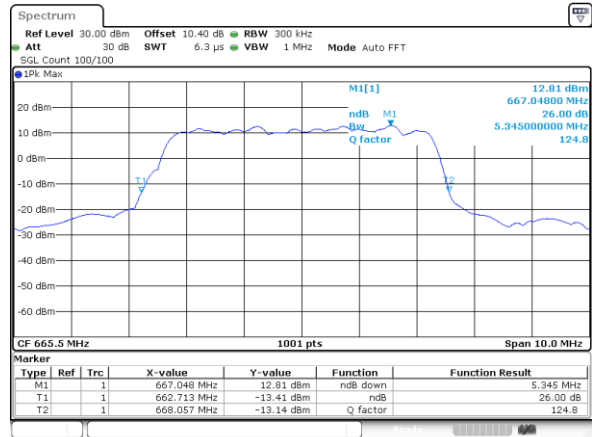
64QAM

Lowest Channel

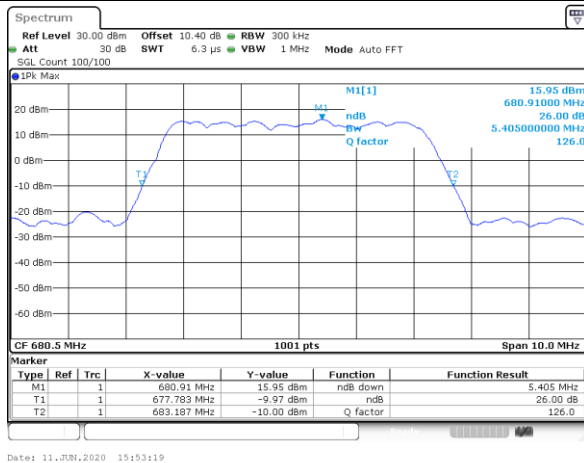


256QAM

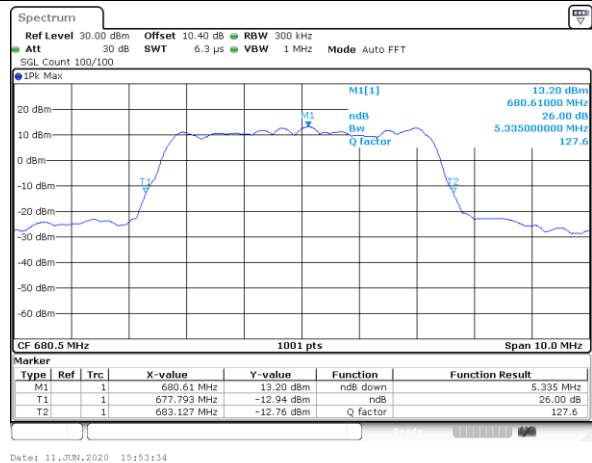
Lowest Channel



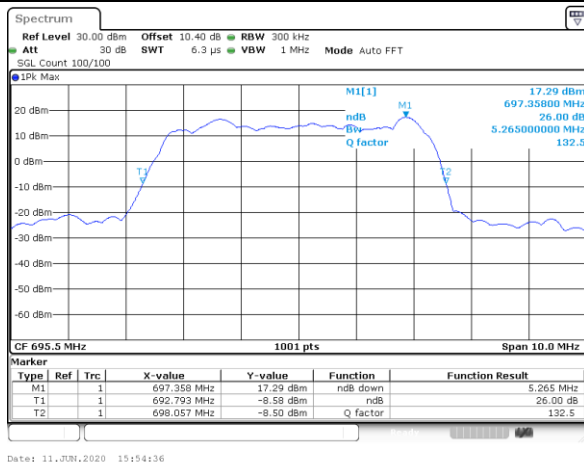
Middle Channel



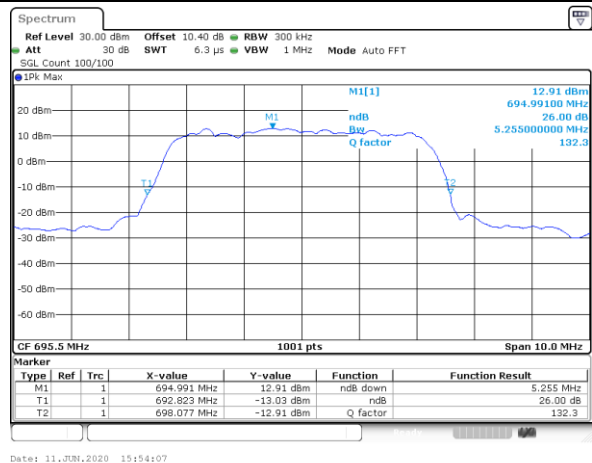
Middle Channel



Highest Channel



Highest Channel

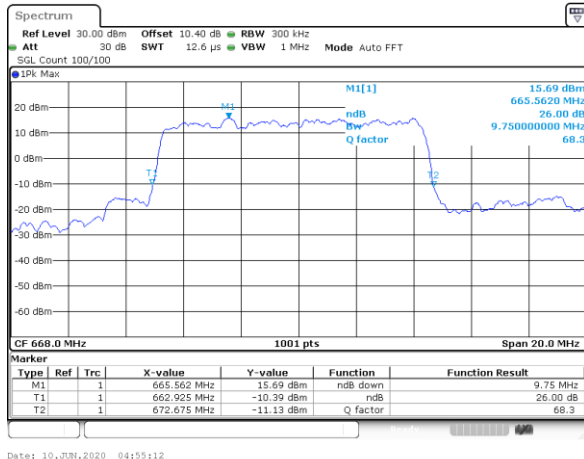




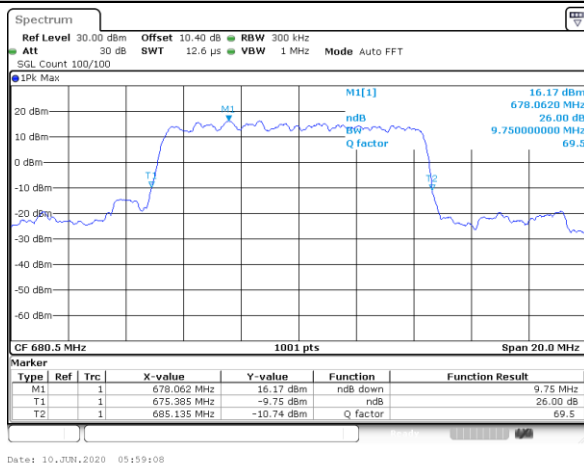
FR1 n71 / 10MHz / DFT-S OFDM

PI/2 BPSK

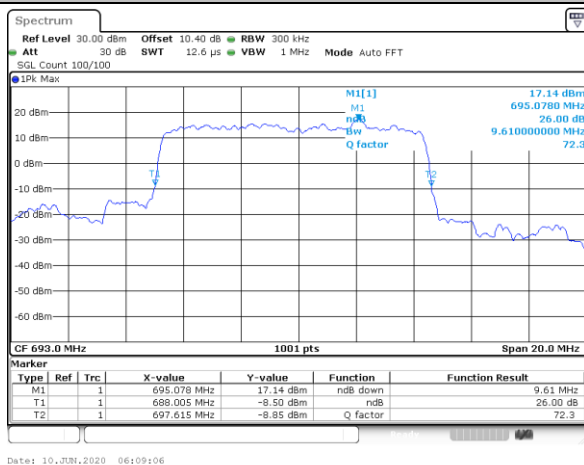
Lowest Channel



Middle Channel



Highest Channel

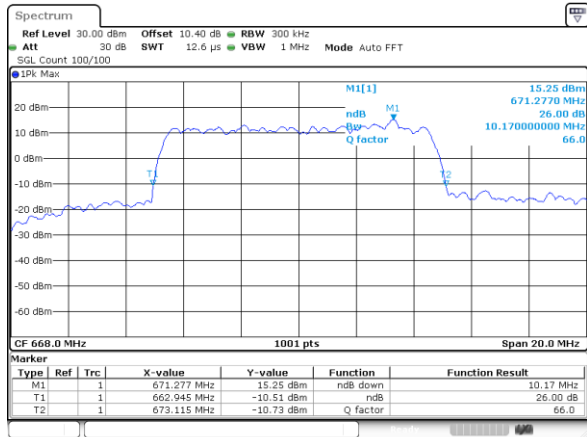




FR1 n71 / 10MHz / CP OFDM

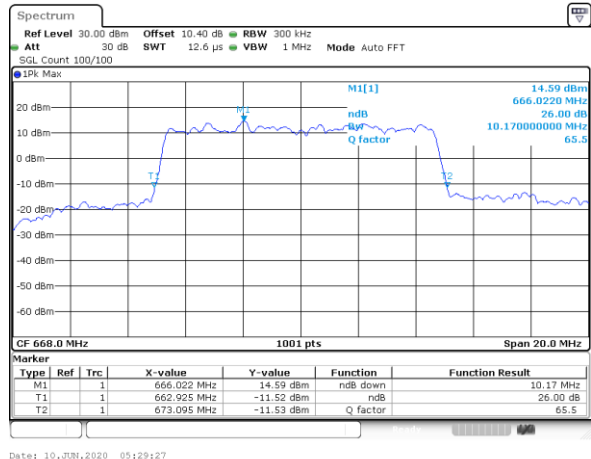
QPSK

Lowest Channel

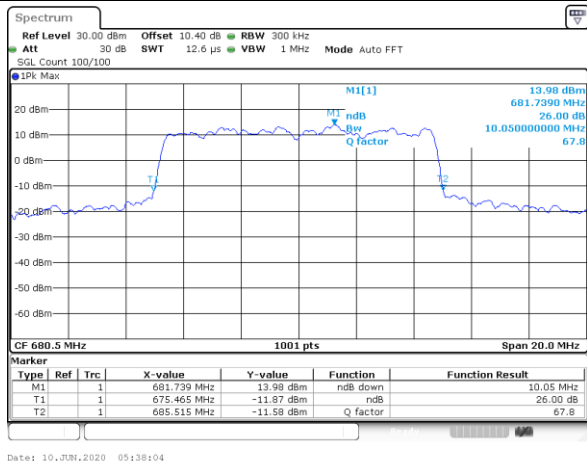


16QAM

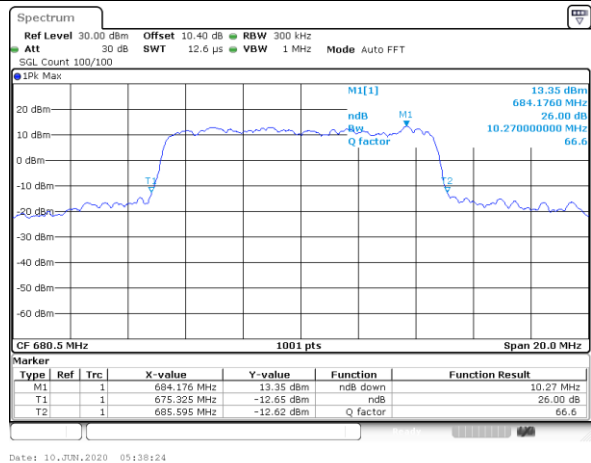
Lowest Channel



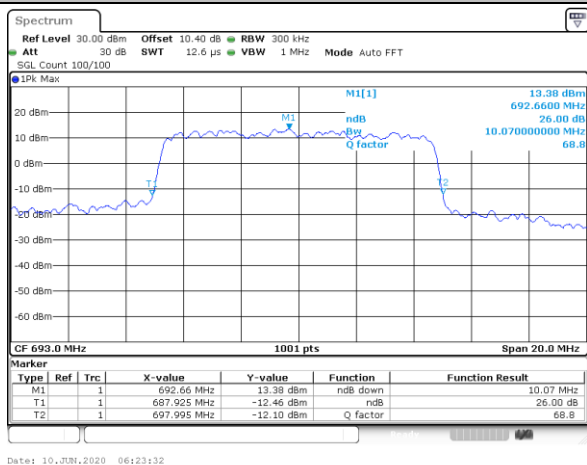
Middle Channel



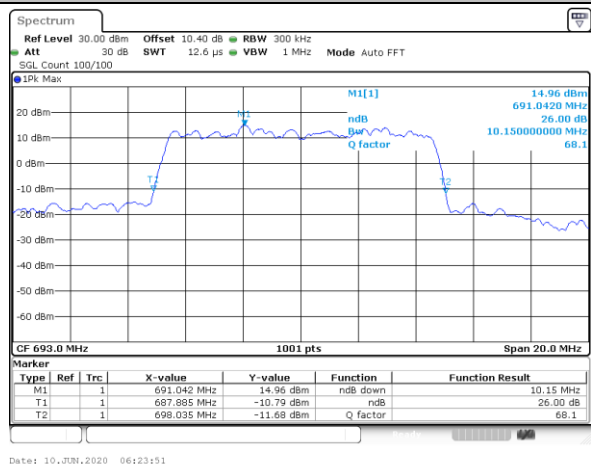
Middle Channel



Highest Channel



Highest Channel

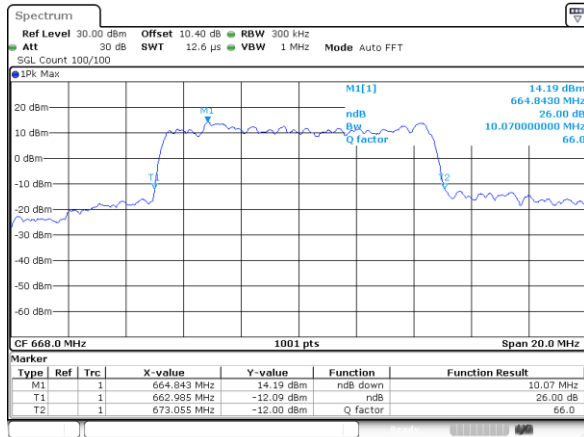




FR1 n71 / 10MHz / CP OFDM

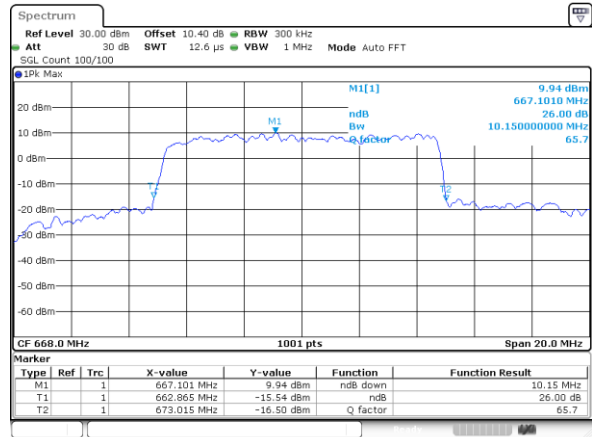
64QAM

Lowest Channel

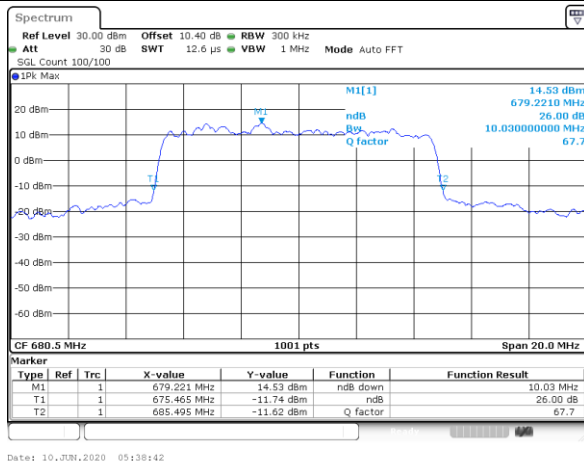


256QAM

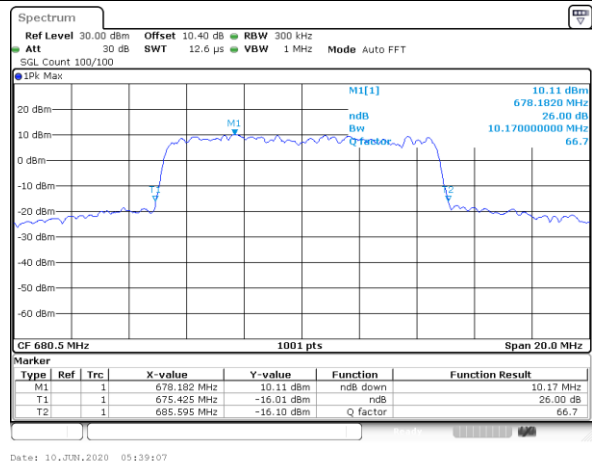
Lowest Channel



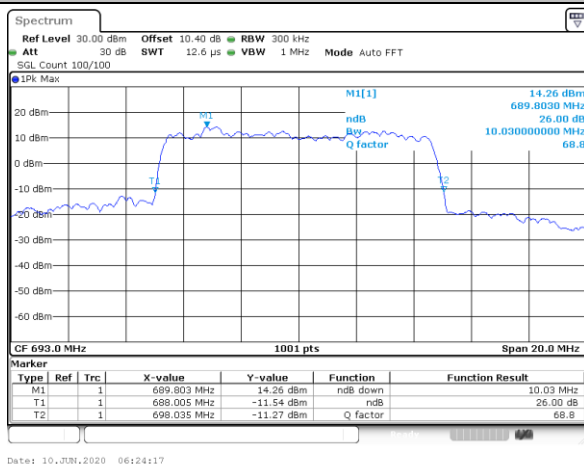
Middle Channel



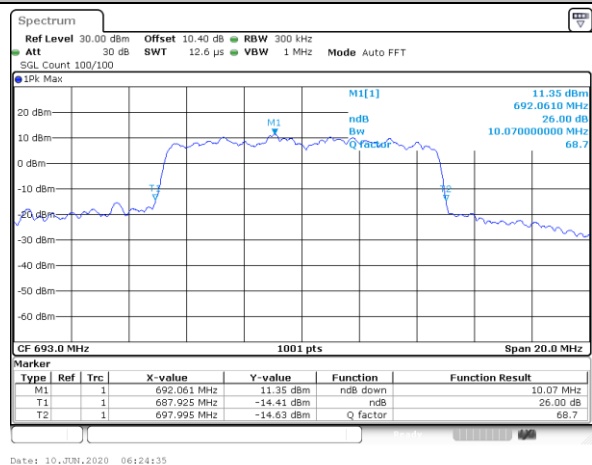
Middle Channel



Highest Channel



Highest Channel

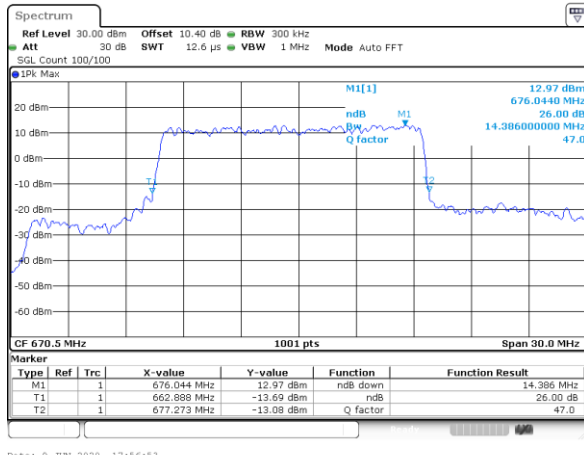




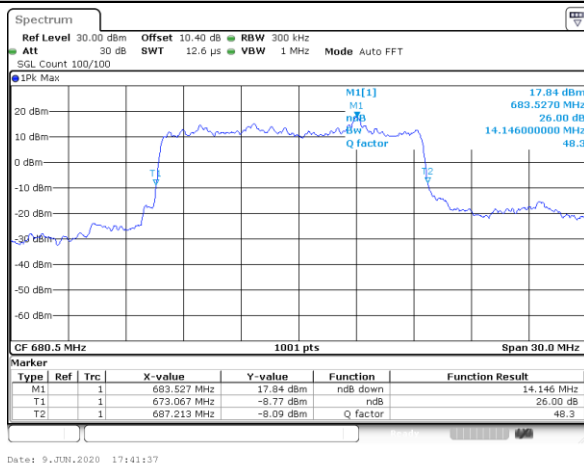
FR1 n71 / 15MHz / DFT-S OFDM

PI/2 BPSK

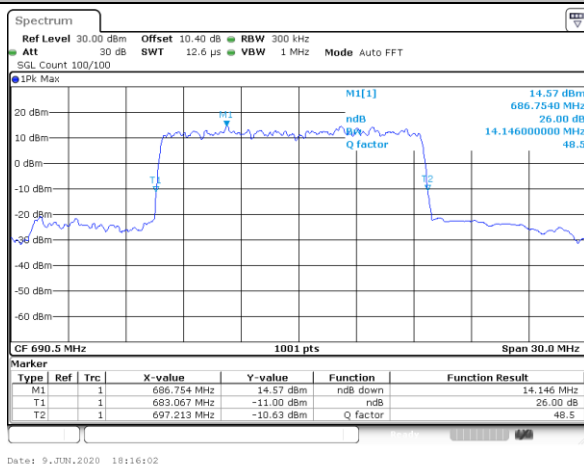
Lowest Channel



Middle Channel



Highest Channel

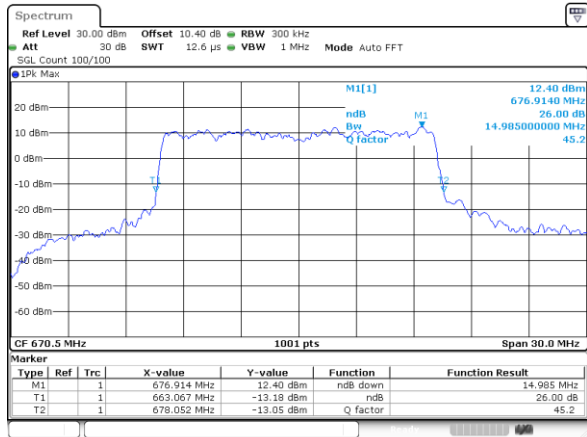




FR1 n71 / 15MHz / CP OFDM

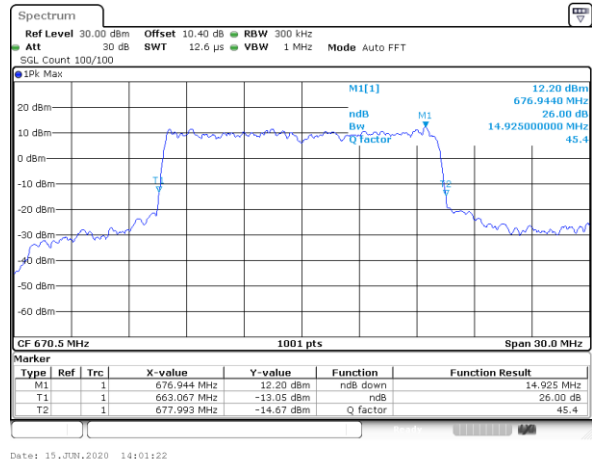
QPSK

Lowest Channel

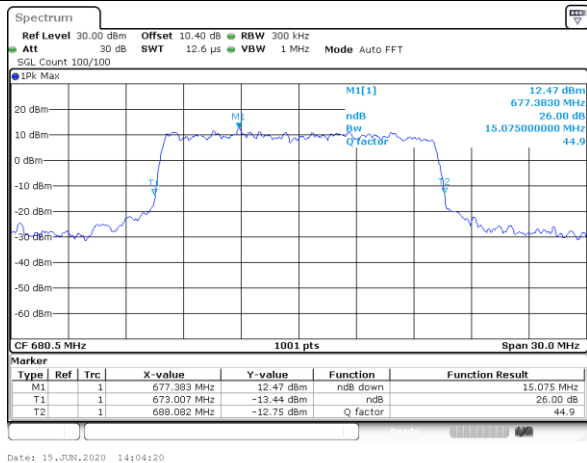


16QAM

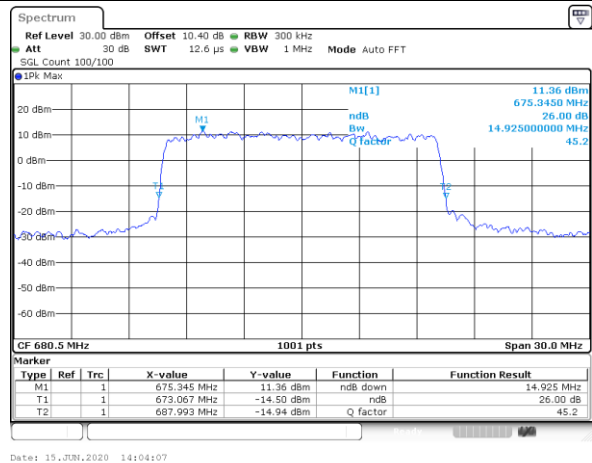
Lowest Channel



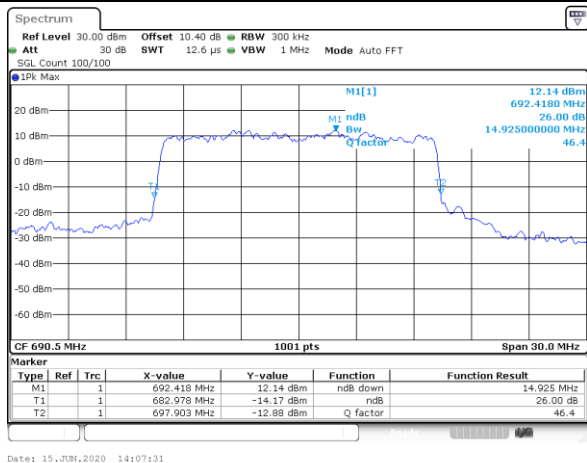
Middle Channel



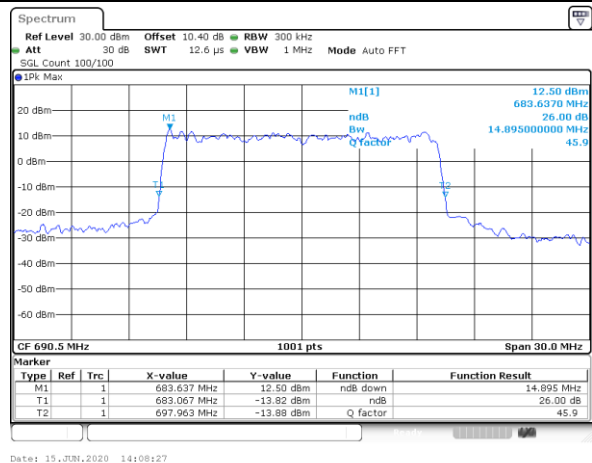
Middle Channel



Highest Channel



Highest Channel

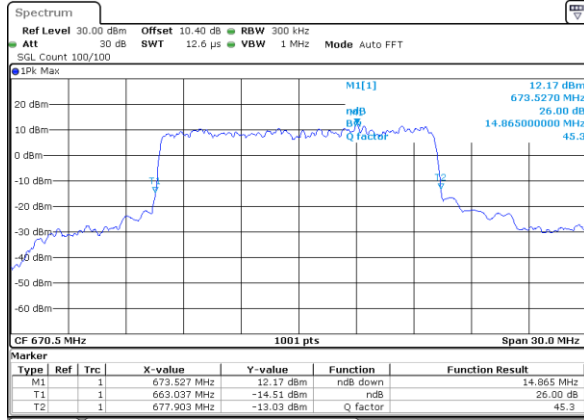




FR1 n71 / 15MHz / CP OFDM

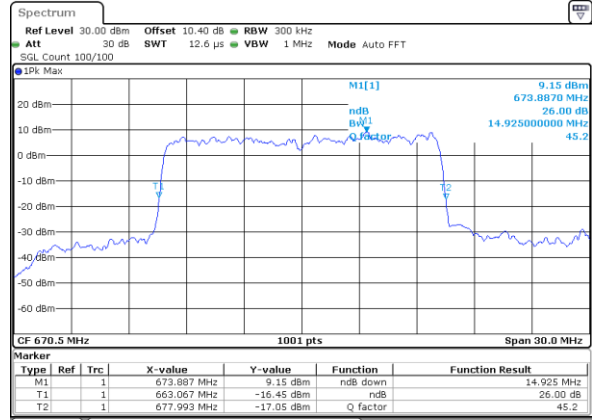
64QAM

Lowest Channel

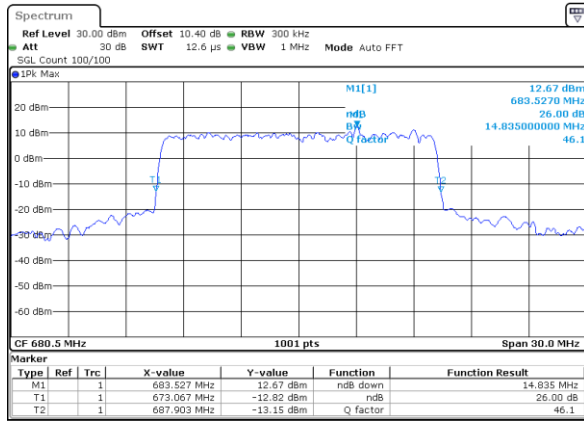


256QAM

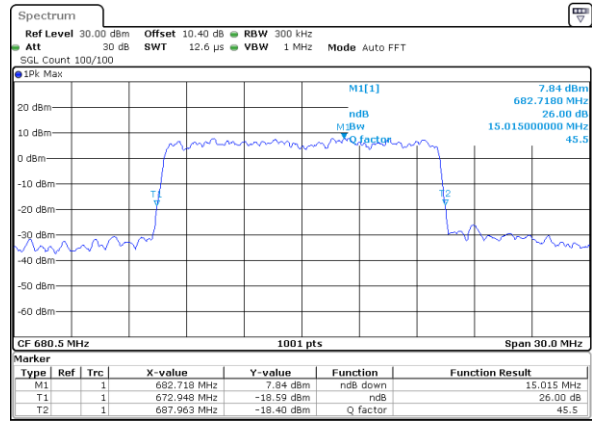
Lowest Channel



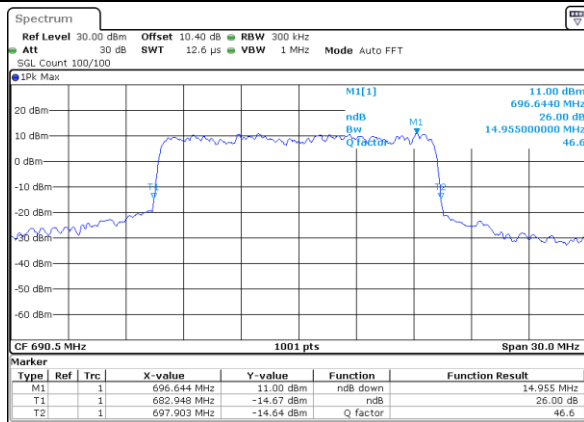
Middle Channel



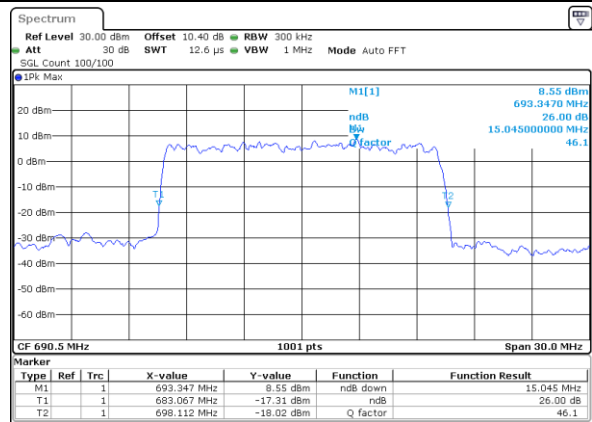
Middle Channel



Highest Channel



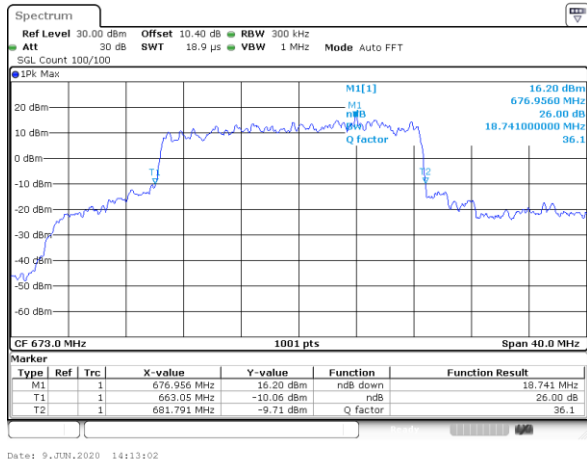
Highest Channel



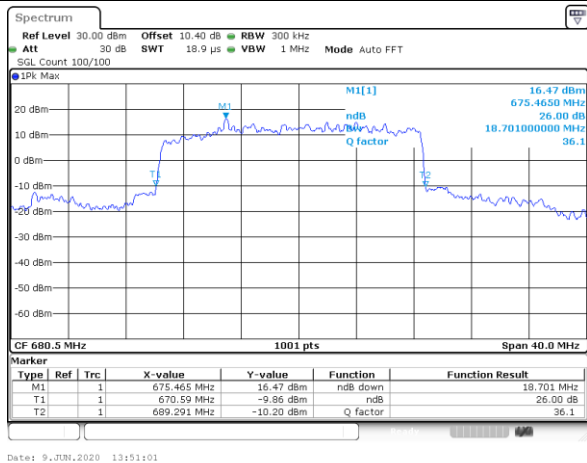
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

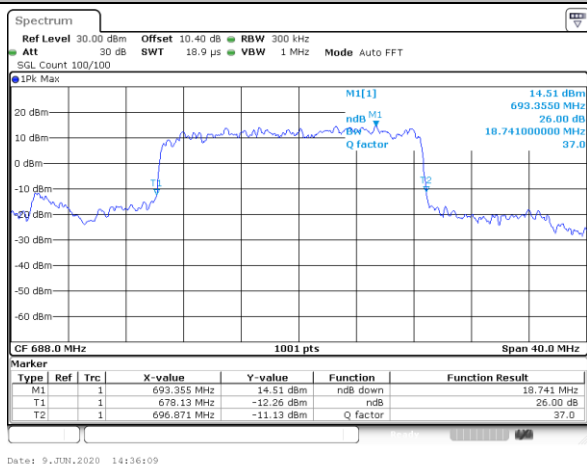
Lowest Channel



Middle Channel



Highest Channel

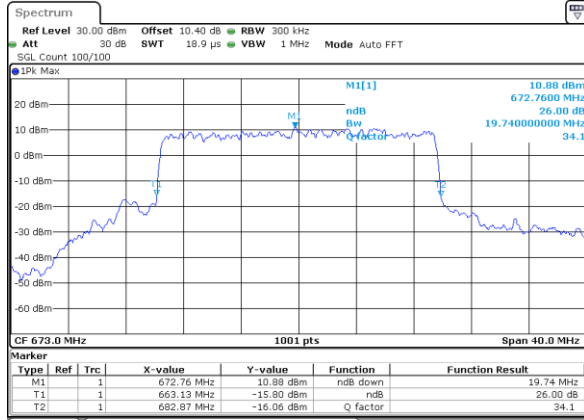




FR1 n71 / 20MHz / CP OFDM

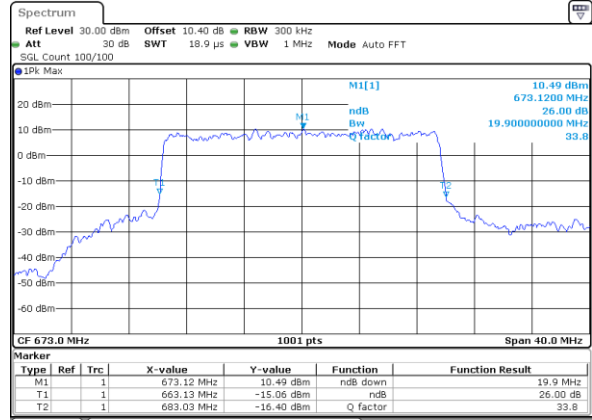
QPSK

Lowest Channel

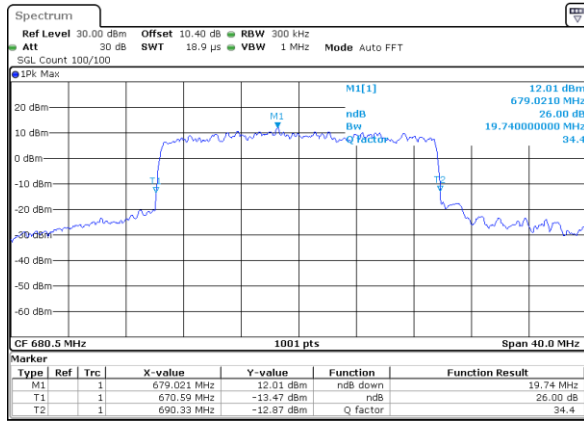


16QAM

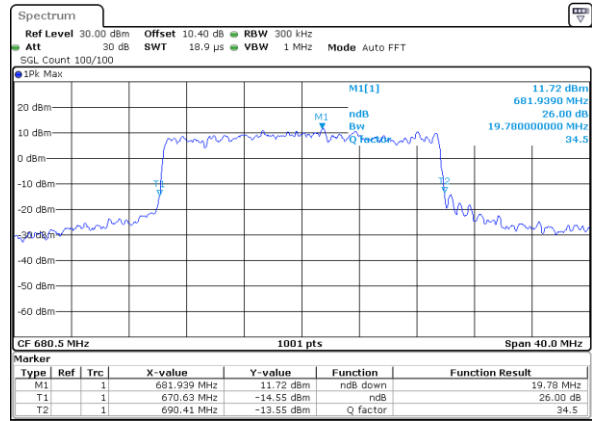
Lowest Channel



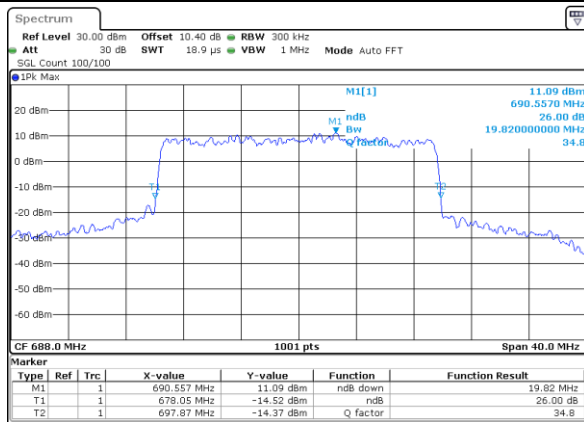
Middle Channel



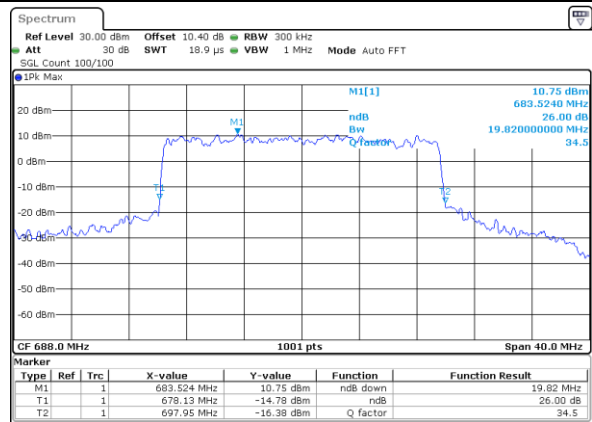
Middle Channel



Highest Channel



Highest Channel

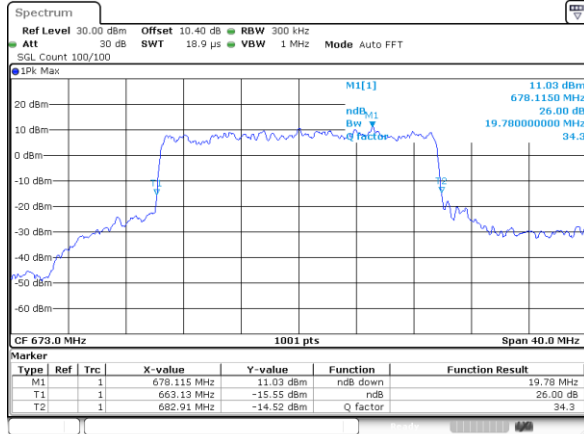




FR1 n71 / 20MHz / CP OFDM

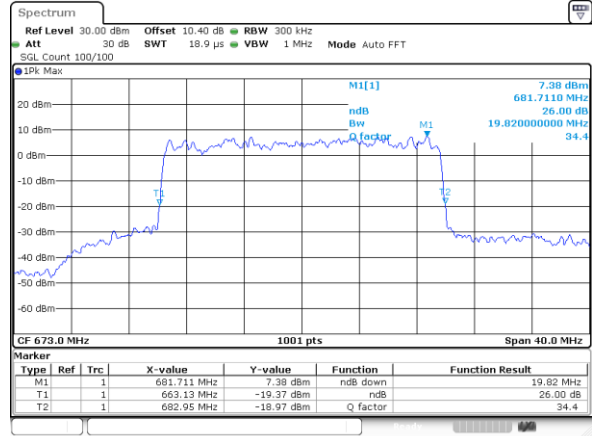
64QAM

Lowest Channel

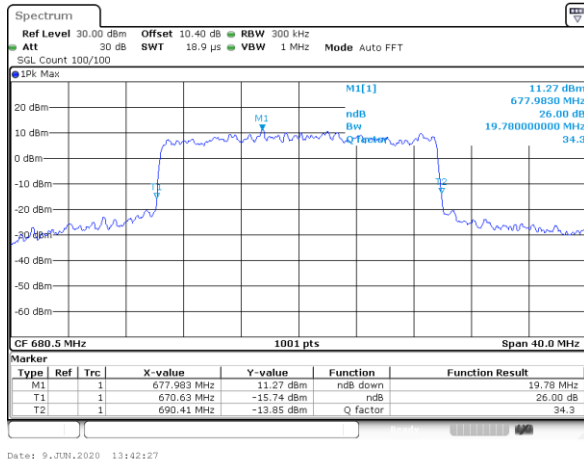


256QAM

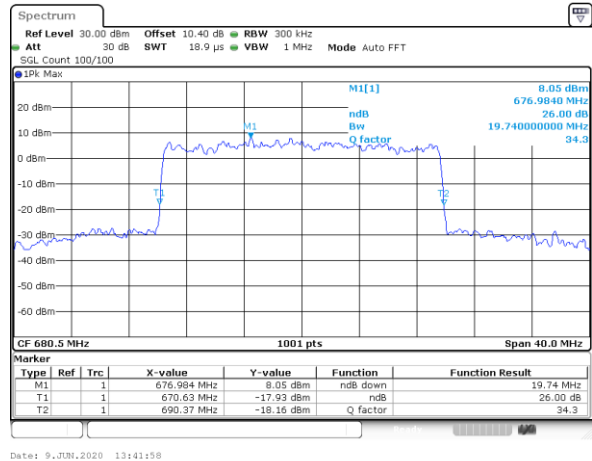
Lowest Channel



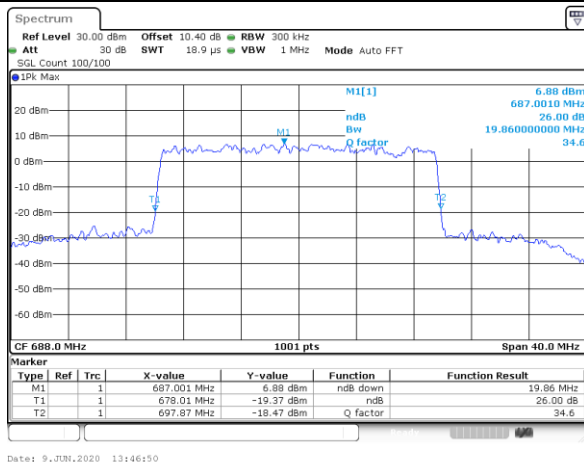
Middle Channel



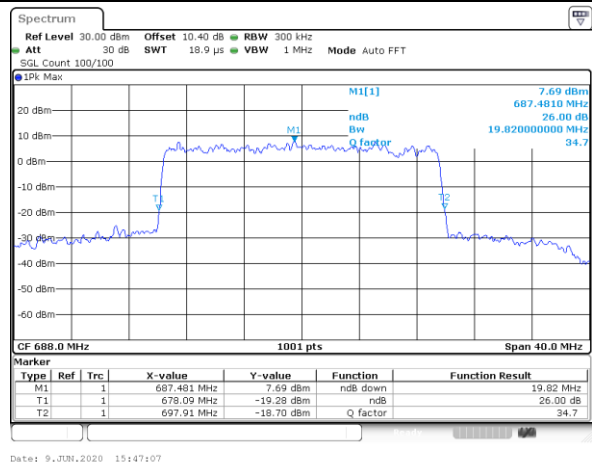
Middle Channel



Highest Channel



Highest Channel



**Occupied Bandwidth**

Mode	FR1 n71 : 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	4.68		9.03		13.46		17.70	
Middle CH	4.68		9.03		13.43		17.78	
Highest CH	4.67		9.03		13.49		17.74	

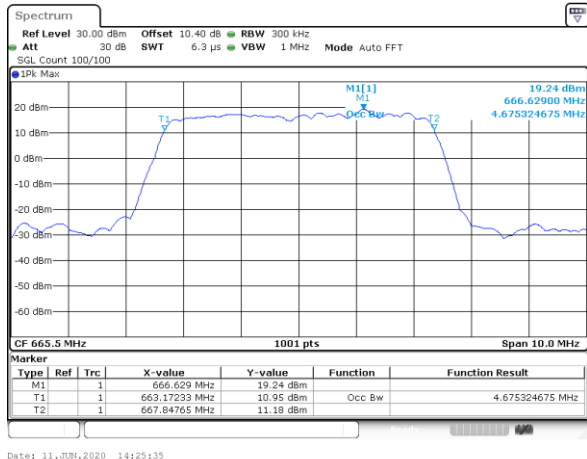
Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.65	4.64	9.43	9.37	14.15	14.12	18.82	18.90
Middle CH	4.64	4.62	9.41	9.41	14.15	14.12	18.90	18.90
Highest CH	4.67	4.66	9.37	9.33	14.12	14.06	18.90	18.98

Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.63	4.65	9.35	9.35	14.21	14.18	18.86	19.02
Middle CH	4.66	4.63	9.33	9.39	14.24	14.15	18.90	18.86
Highest CH	4.67	4.66	9.29	9.33	14.15	14.15	18.90	19.94

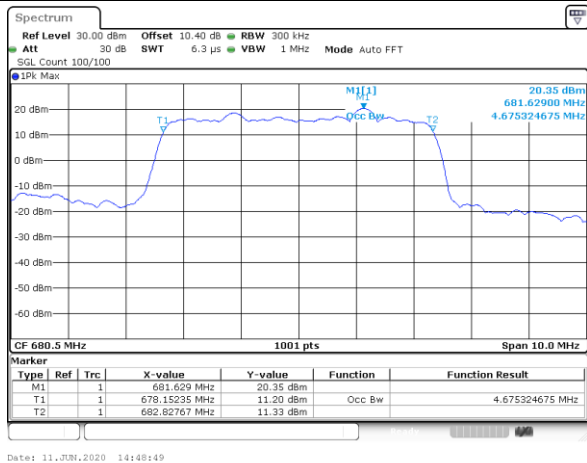
FR1 n71 / 5MHz / DFT-S OFDM

PI/2 BPSK

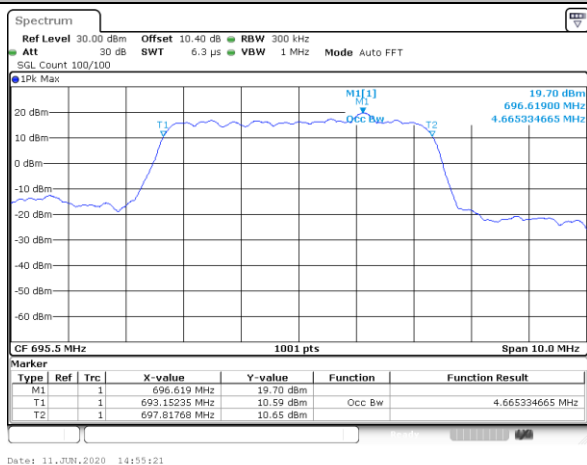
Lowest Channel



Middle Channel



Highest Channel

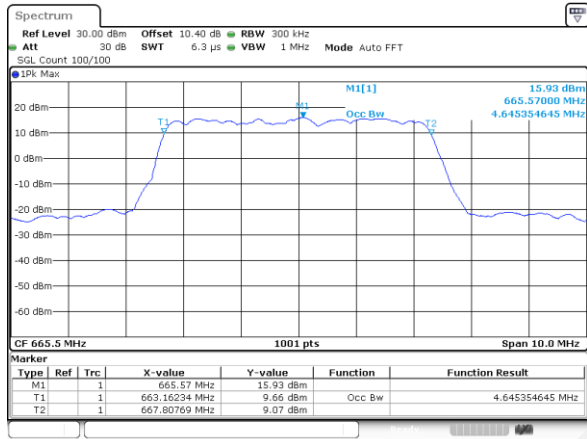




FR1 n71 / 5MHz / CP OFDM

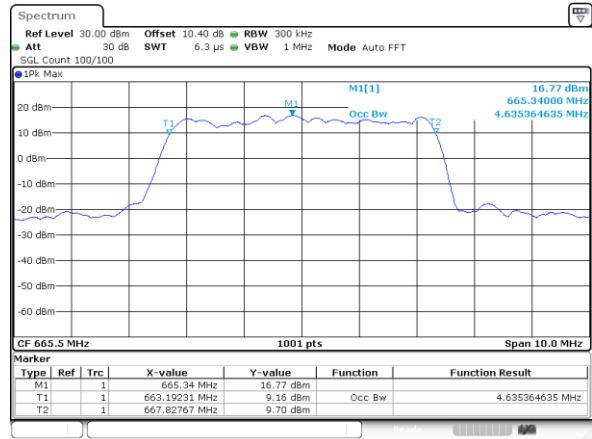
QPSK

Lowest Channel

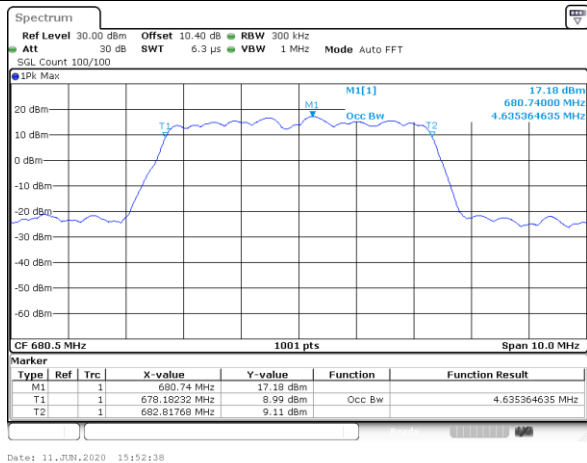


16QAM

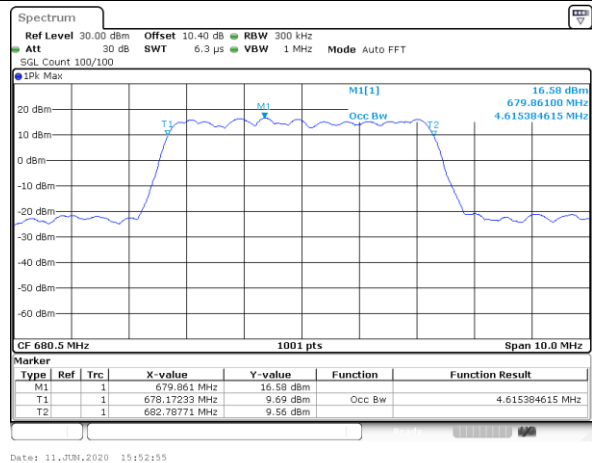
Lowest Channel



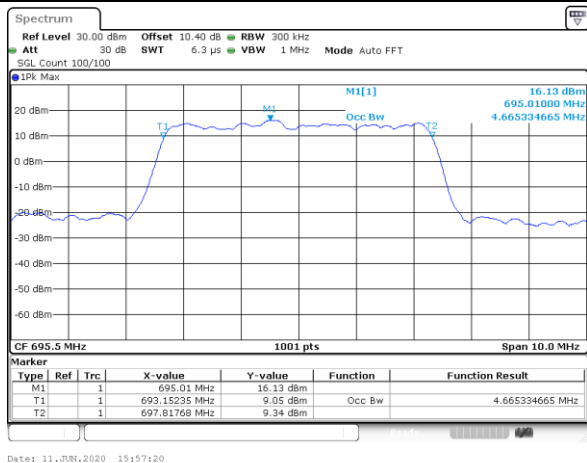
Middle Channel



Middle Channel



Highest Channel



Highest Channel

