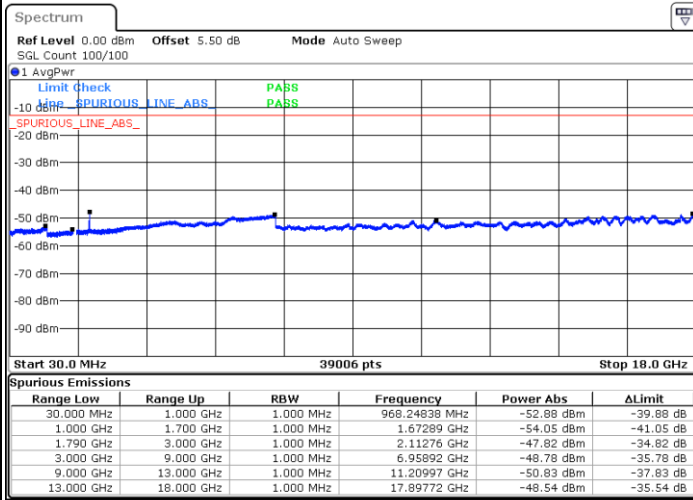




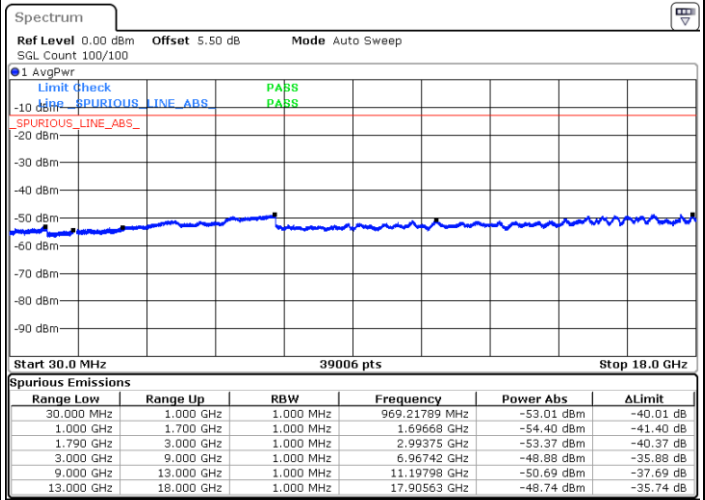
FR1 n66 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

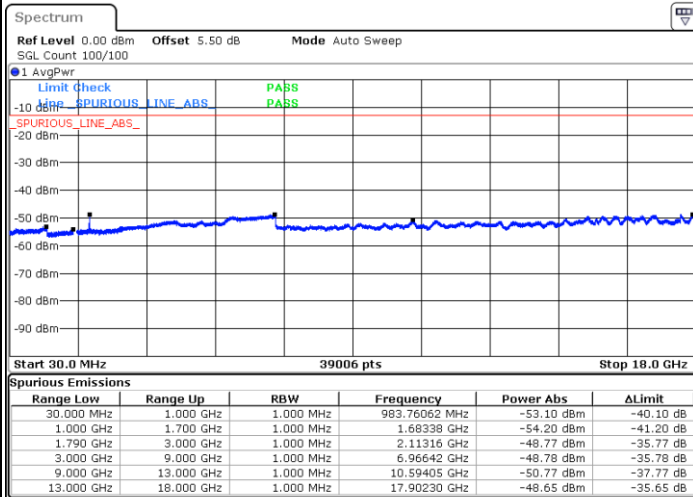


Date: 16 JUL 2020 02:27:06



Date: 16 JUL 2020 02:29:59

Highest Channel / 1RB0



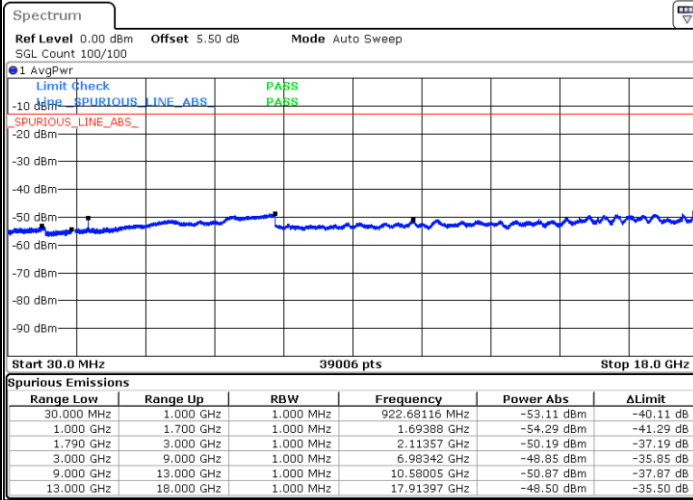
Date: 16 JUL 2020 02:33:09



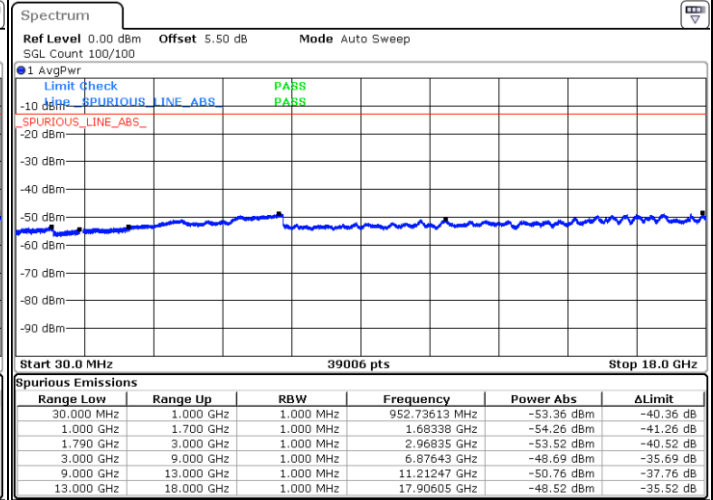
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

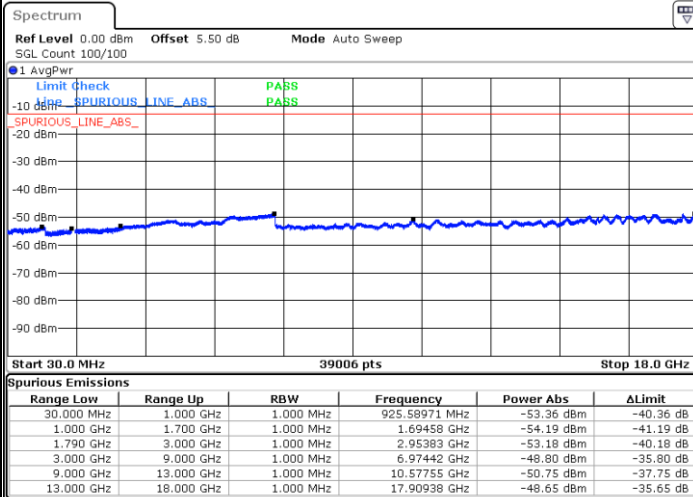


Date: 16 JUL 2020 02:39:22



Date: 16 JUL 2020 02:42:23

Highest Channel / 1RB0

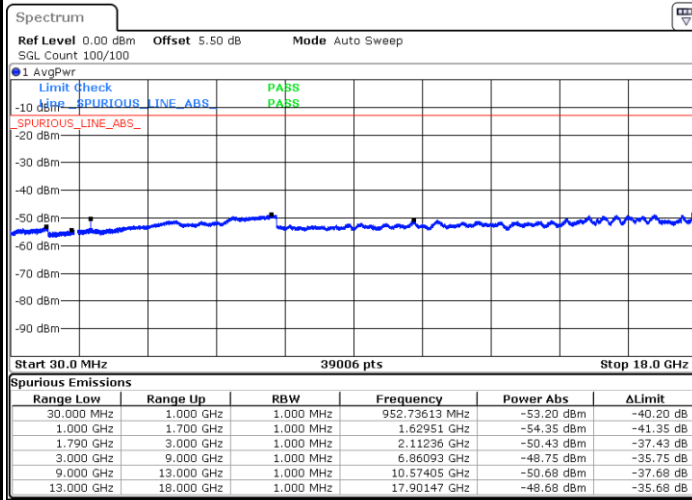


Date: 16 JUL 2020 02:46:05



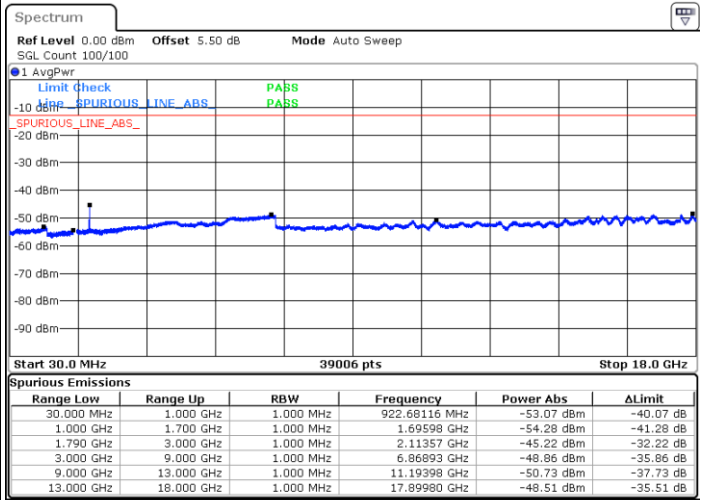
FR1 n66 / 20MHz / DFT-S OFDM / 16QAM

Lowest Channel / 1RB0



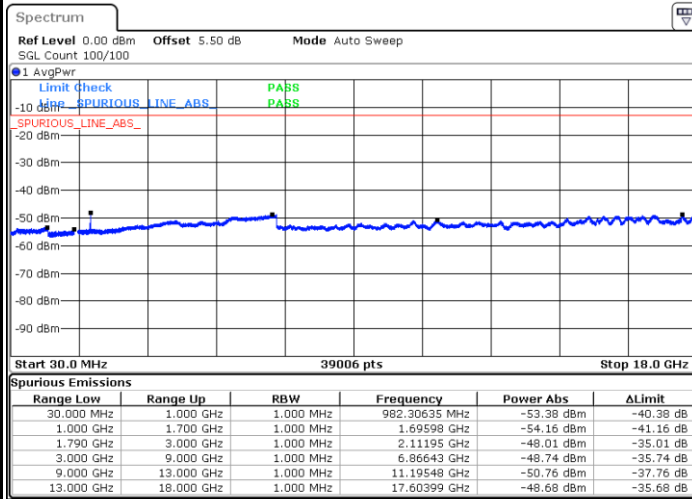
Date: 16 JUL 2020 02:40:03

Middle Channel / 1RB0



Date: 16 JUL 2020 02:43:03

Highest Channel / 1RB0

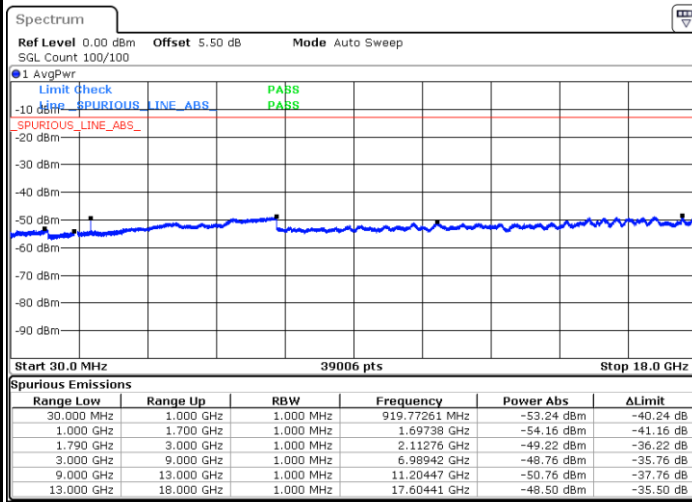


Date: 16 JUL 2020 02:46:45



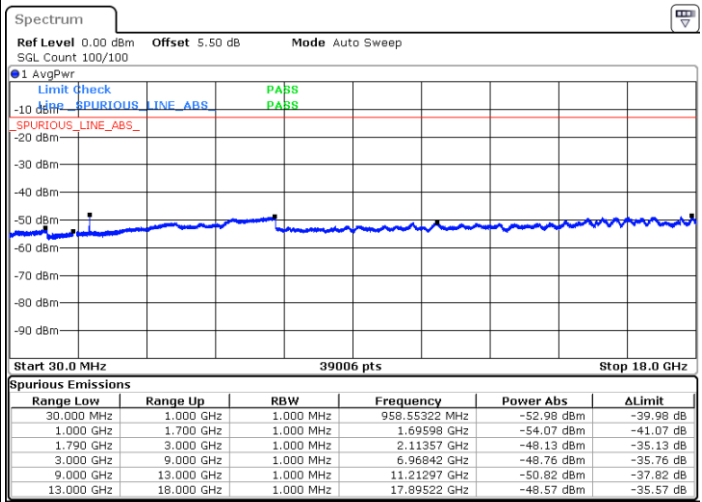
FR1 n66 / 20MHz / DFT-S OFDM / 64QAM

Lowest Channel / 1RB0



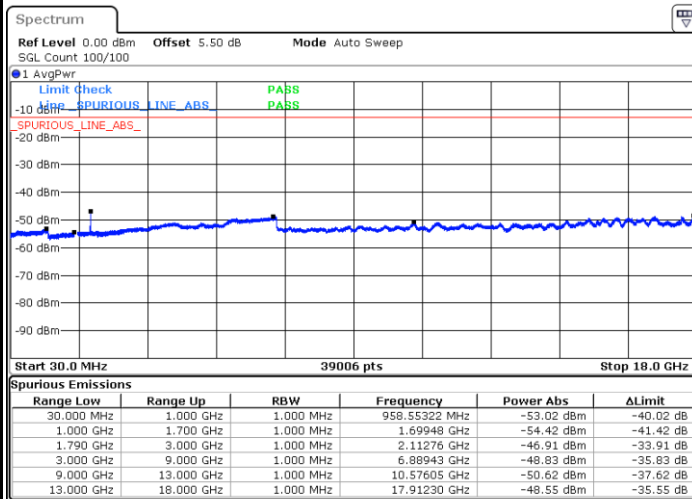
Date: 16 JUL 2020 02:40:49

Middle Channel / 1RB0



Date: 16 JUL 2020 02:43:40

Highest Channel / 1RB0



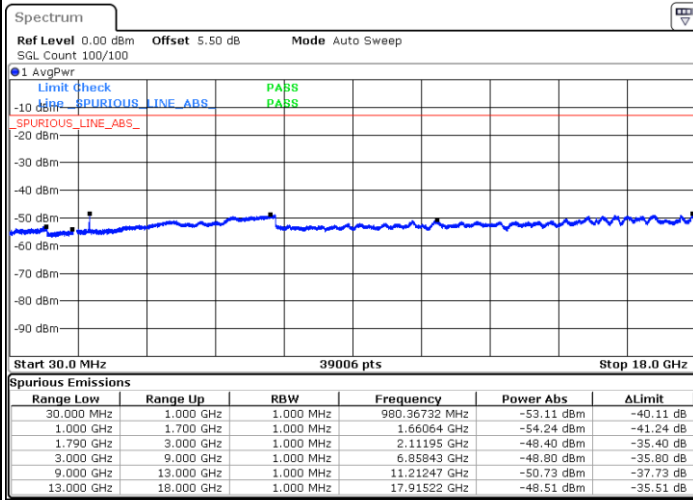
Date: 16 JUL 2020 02:47:22



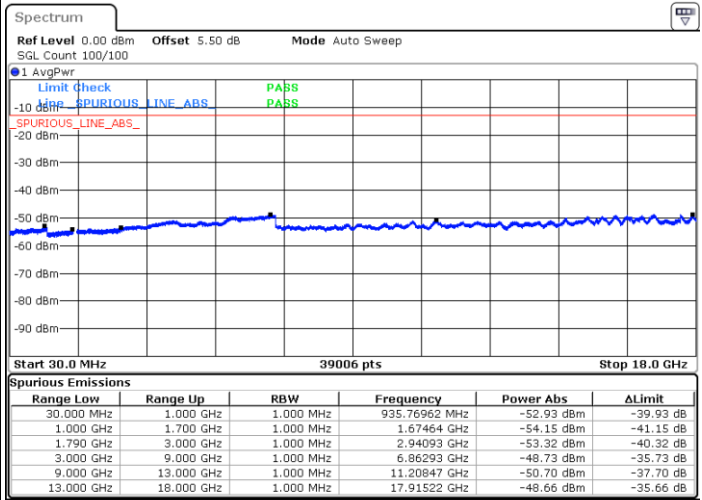
FR1 n66 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

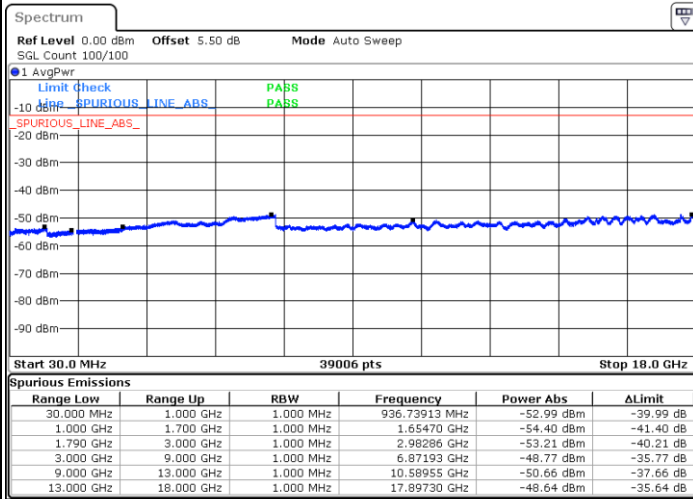


Date: 16 JUL 2020 02:38:14



Date: 16 JUL 2020 02:41:44

Highest Channel / 1RB0



Date: 16 JUL 2020 02:45:25

Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR 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	4.67	5.54	6.49	6.96	PASS
Middle CH	4.38	5.57	6.49	6.90	
Highest CH	4.96	5.45	6.46	7.10	
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	1 RB0	1 RB0	1 RB0	1 RB0	Result
Lowest CH	5.13	4.96	5.83	6.64	PASS
Middle CH	5.01	4.90	5.71	6.61	
Highest CH	5.13	4.78	5.74	6.46	



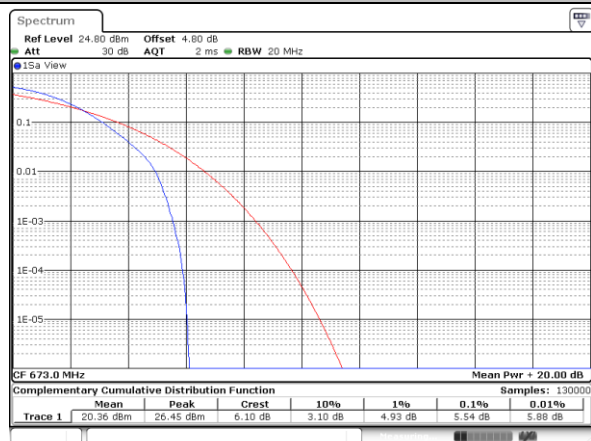
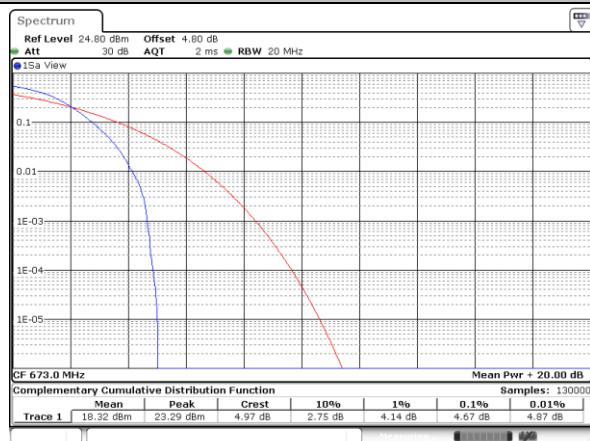
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

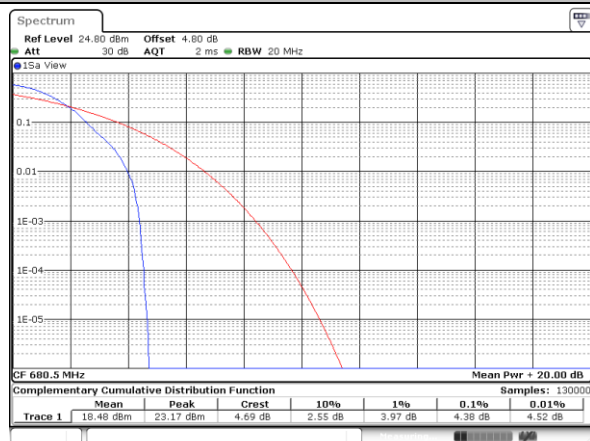
Lowest Channel / Full RB

Lowest Channel / Full RB



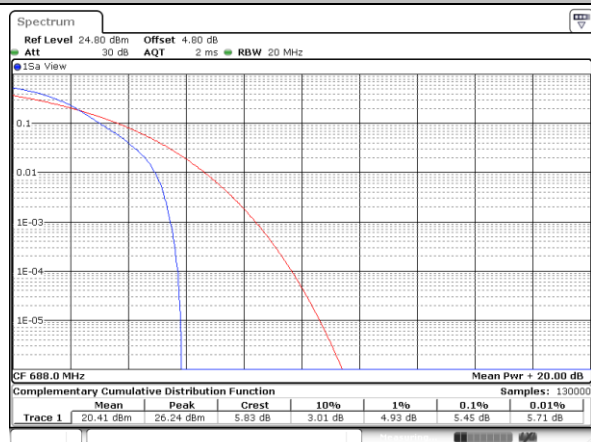
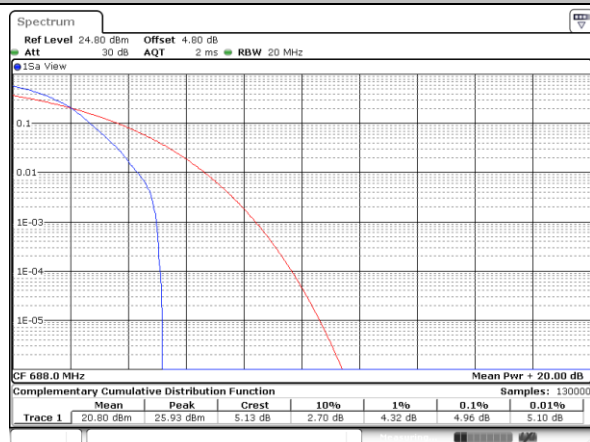
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB

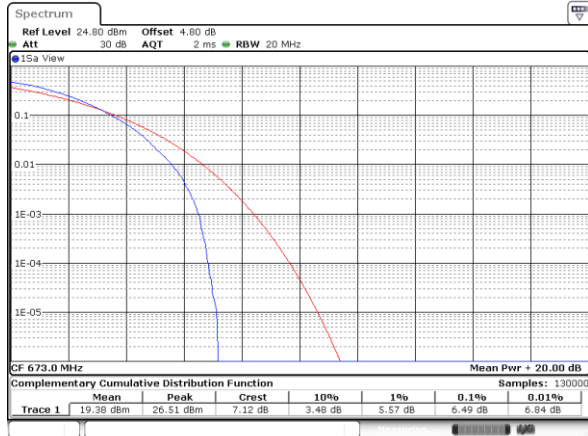




FR1 n71 / 20MHz / DFT-S OFDM

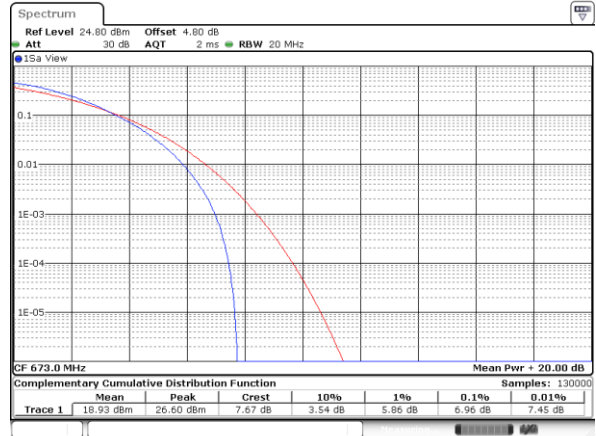
16QAM

Lowest Channel / Full RB

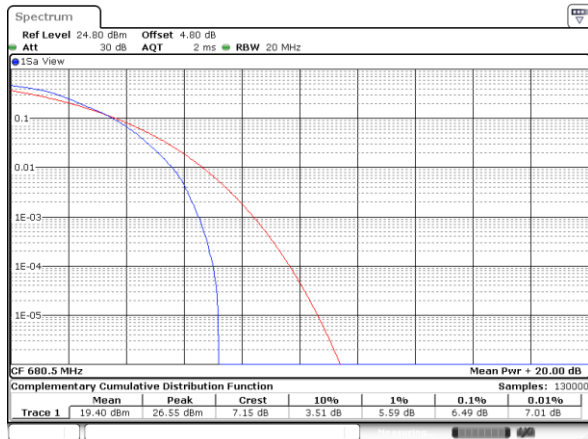


64QAM

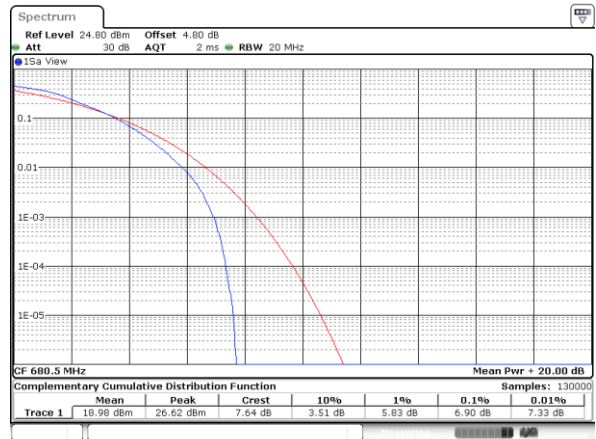
Lowest Channel / Full RB



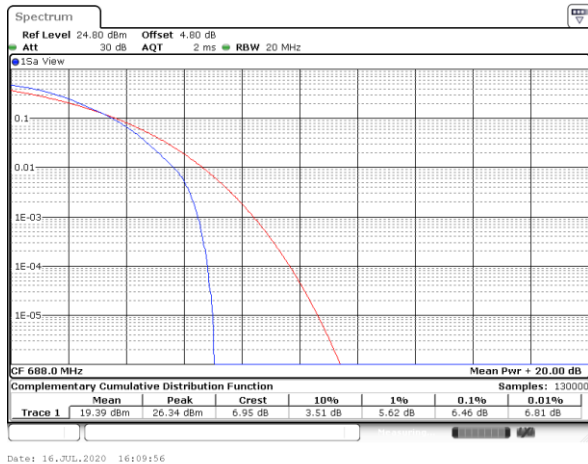
Middle Channel / Full RB



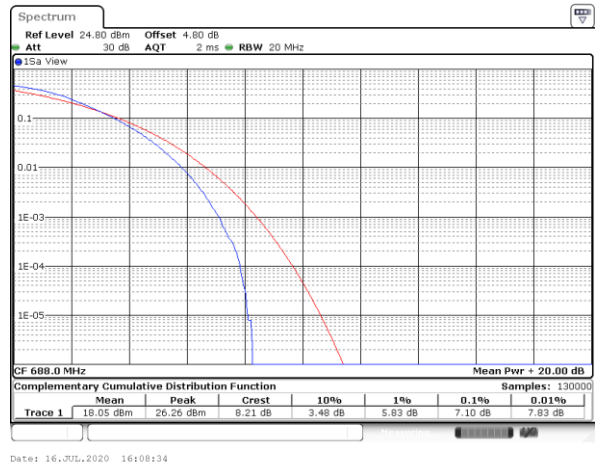
Middle Channel / Full RB



Highest Channel / Full RB



Highest Channel / Full RB





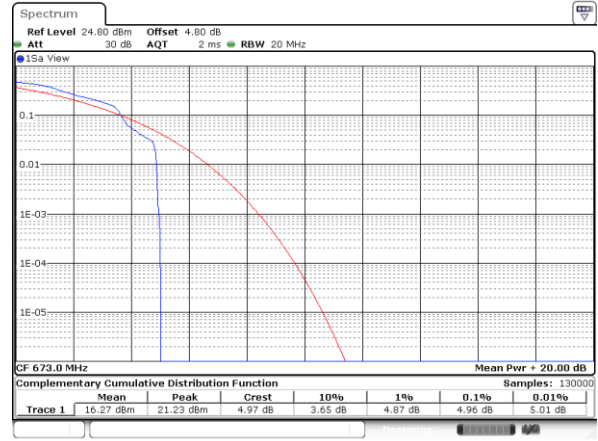
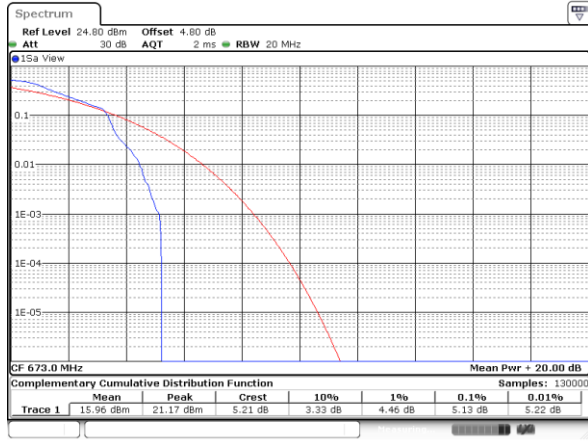
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

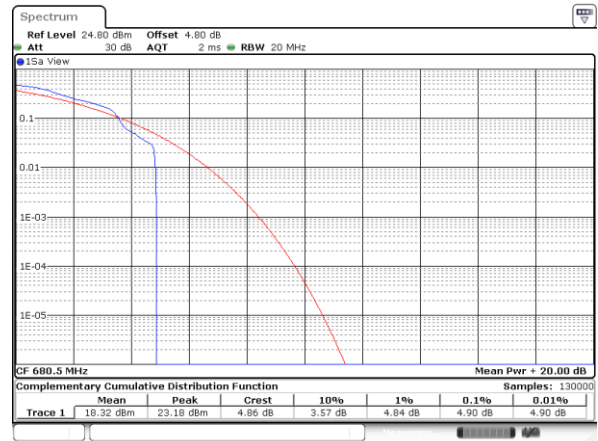
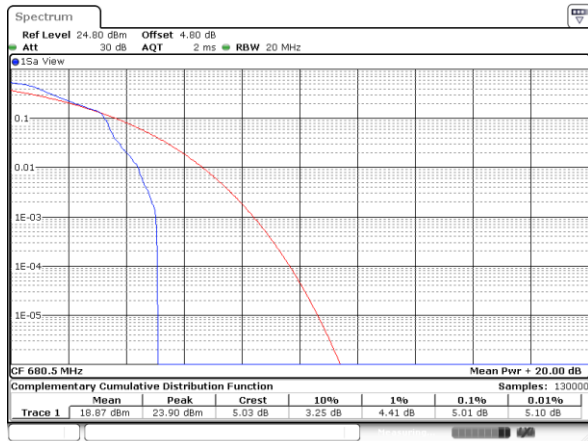
Lowest Channel / 1RB0

Lowest Channel / 1RB0



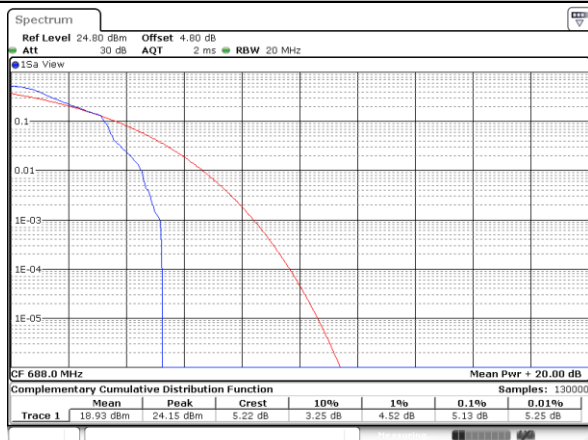
Middle Channel / 1RB0

Middle Channel / 1RB0



Highest Channel / 1RB0

Highest Channel / 1RB0





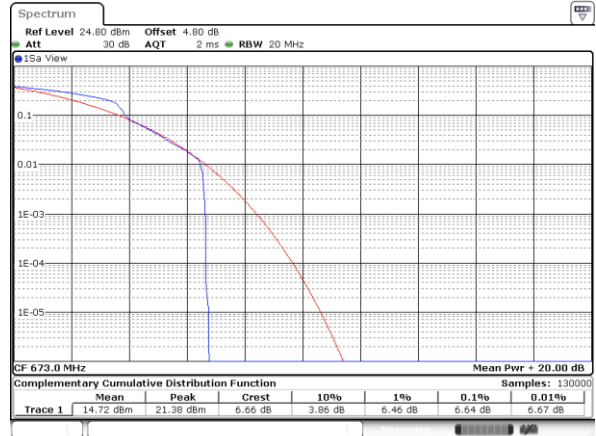
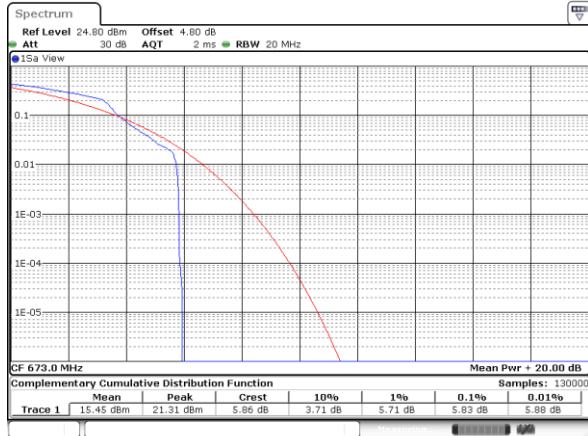
FR1 n71 / 20MHz / DFT-S OFDM

16QAM

64QAM

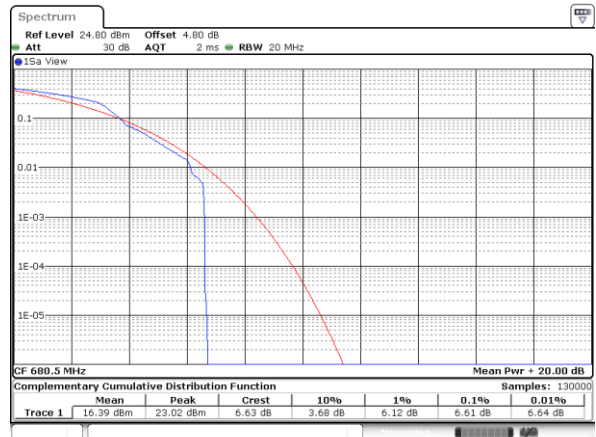
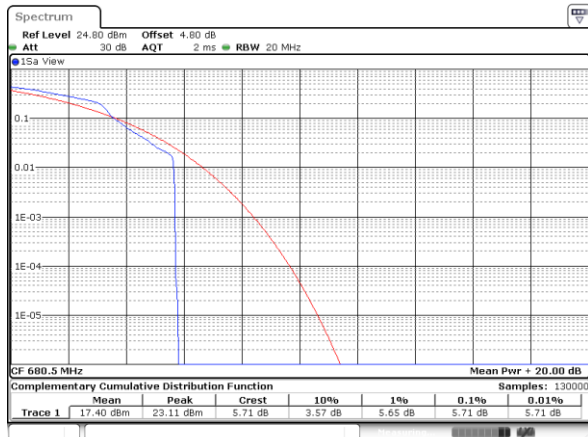
Lowest Channel / 1RB0

Lowest Channel / 1RB0



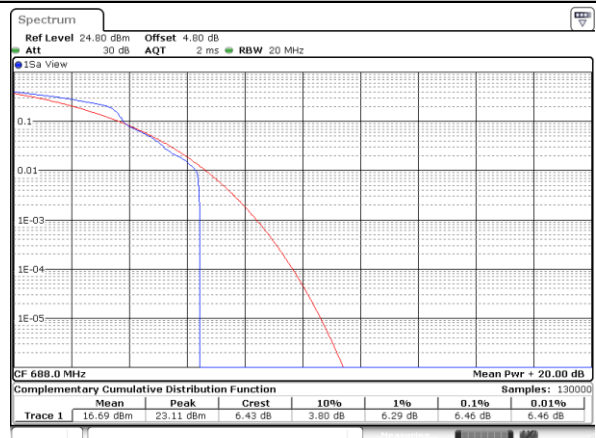
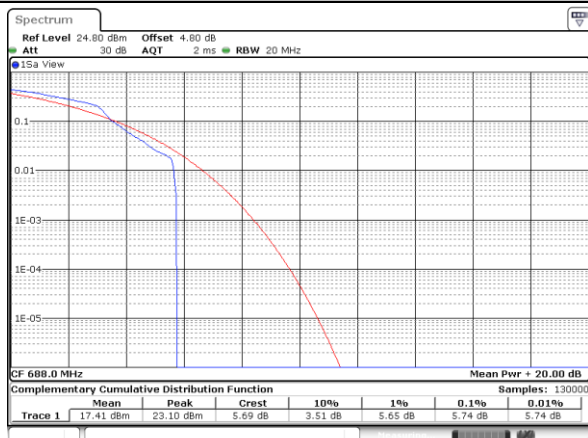
Middle Channel / 1RB0

Middle Channel / 1RB0



Highest Channel / 1RB0

Highest Channel / 1RB0



**26dB Bandwidth**

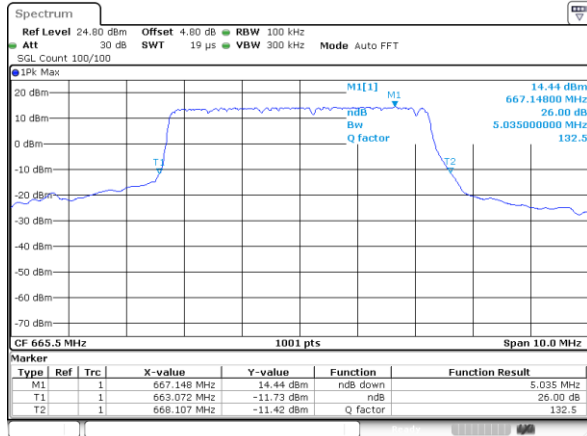
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI / BPSK	QPSK	PI / BPSK	QPSK	PI / BPSK	QPSK	PI / BPSK	QPSK
Lowest CH	5.04	5.05	9.91	9.75	14.18	14.18	20.06	20.26
Middle CH	5.13	5.05	9.81	9.83	14.30	14.39	20.30	20.14
Highest CH	5.04	5.13	9.79	9.95	14.39	14.30	20.34	20.38
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Lowest CH	5.05	5.06	9.69	9.87	14.36	14.45	20.30	20.10
Middle CH	5.05	5.07	9.77	9.91	14.18	14.45	20.18	20.06
Highest CH	5.05	5.16	9.75	9.93	14.66	14.33	20.18	20.30



FR1 n71 / 5MHz / DFT-S OFDM

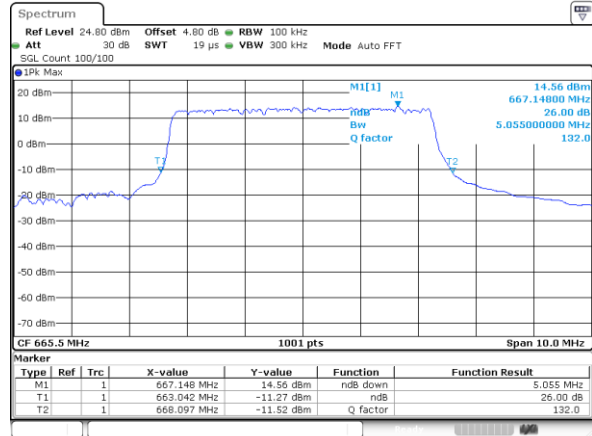
PI / BPSK

Lowest Channel

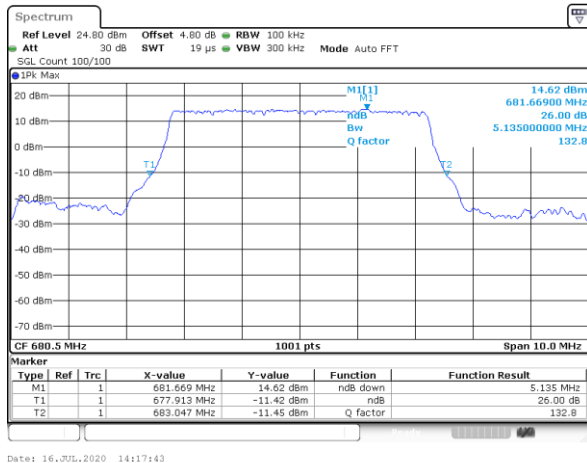


QPSK

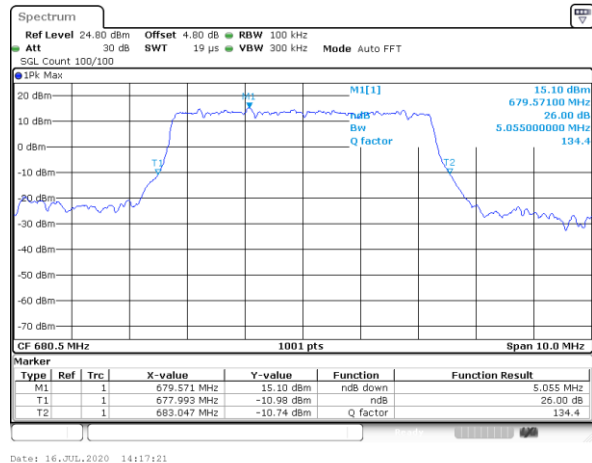
Lowest Channel



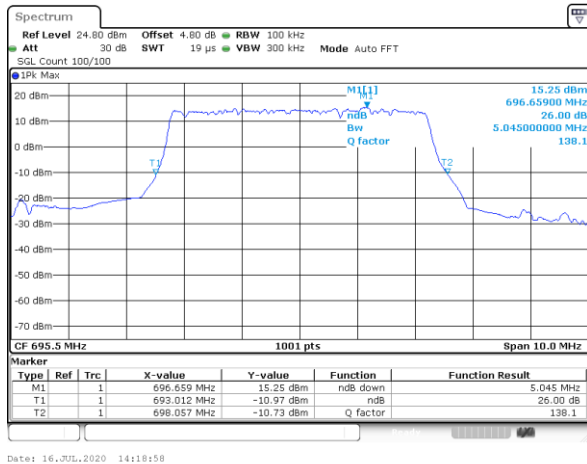
Middle Channel



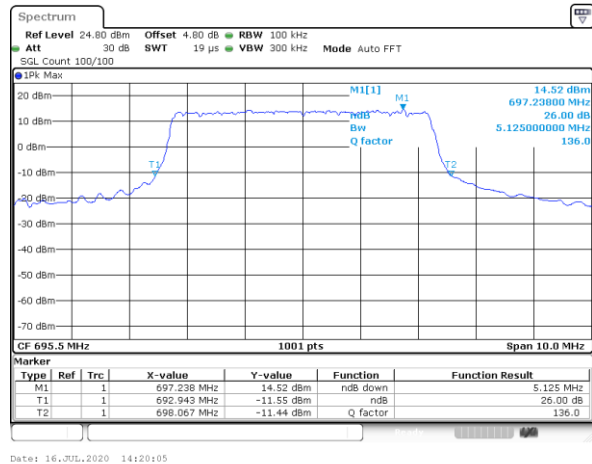
Middle Channel



Highest Channel



Highest Channel

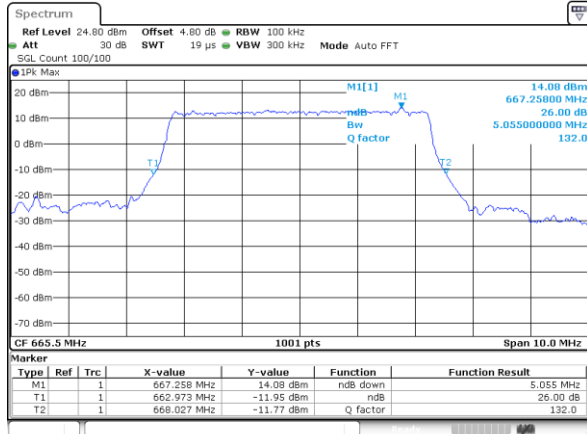




FR1 n71 / 5MHz / DFT-S OFDM

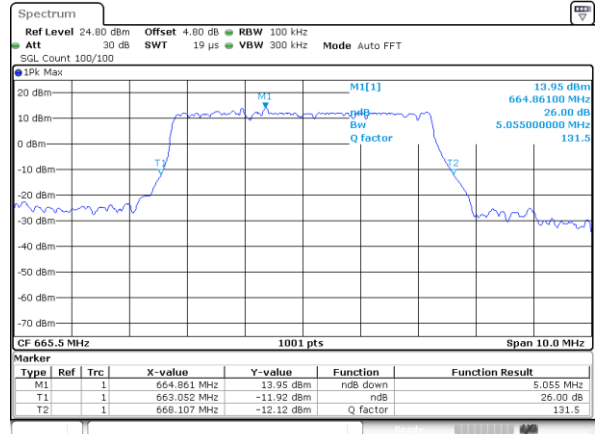
16QAM

Lowest Channel

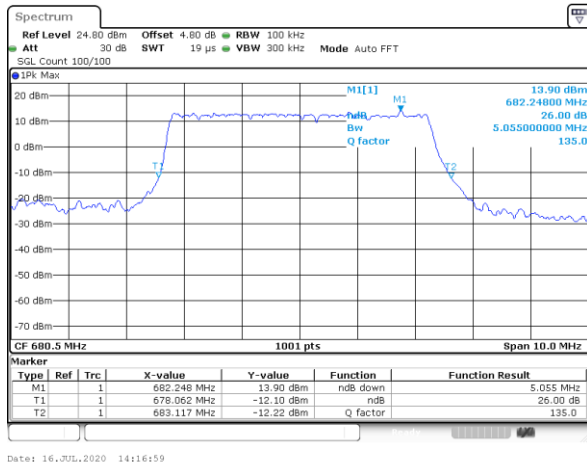


64QAM

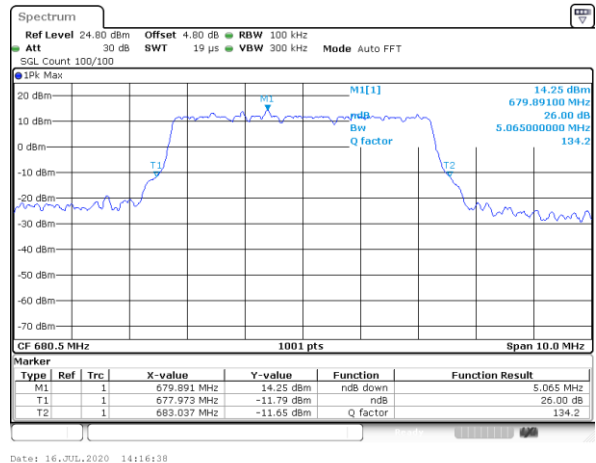
Lowest Channel



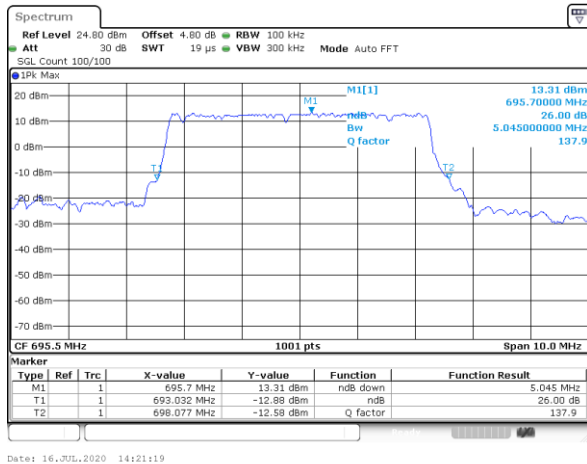
Middle Channel



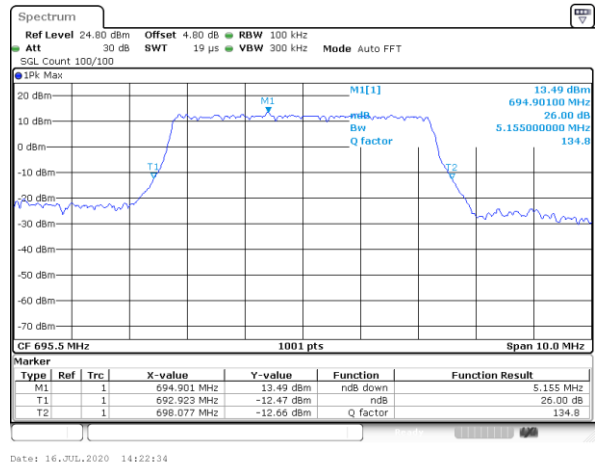
Middle Channel



Highest Channel



Highest Channel

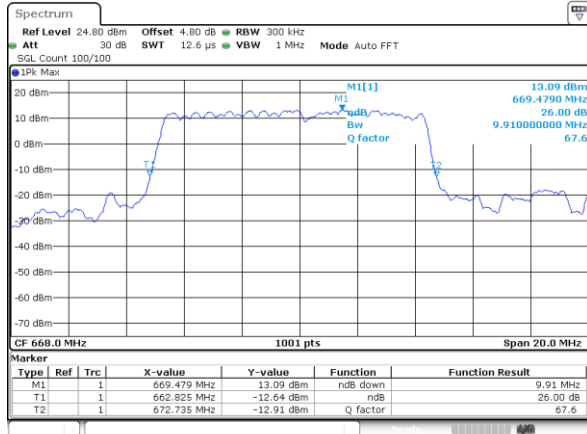




FR1 n71 / 10MHz / DFT-S OFDM

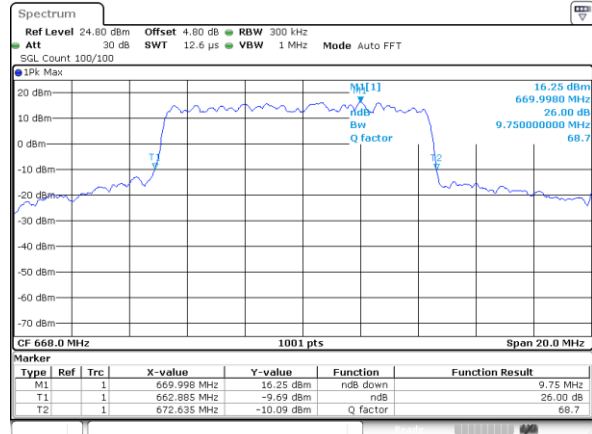
PI / BPSK

Lowest Channel

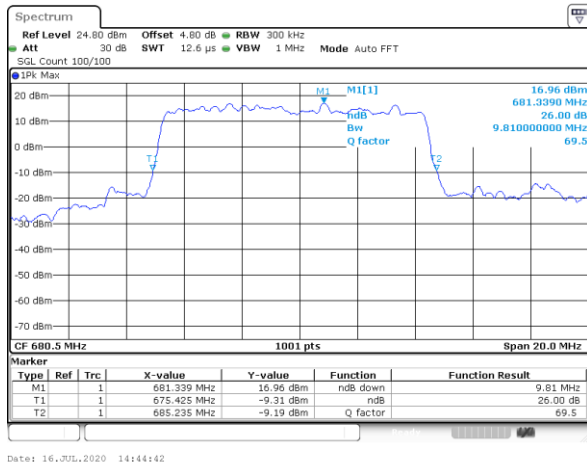


QPSK

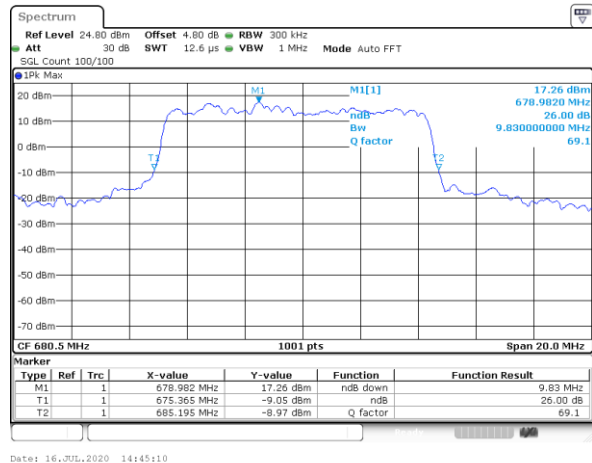
Lowest Channel



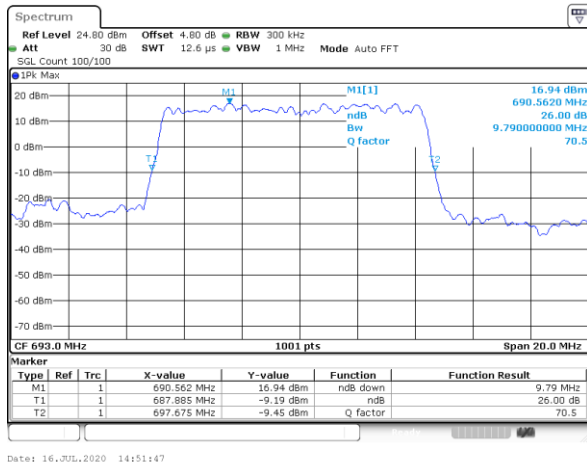
Middle Channel



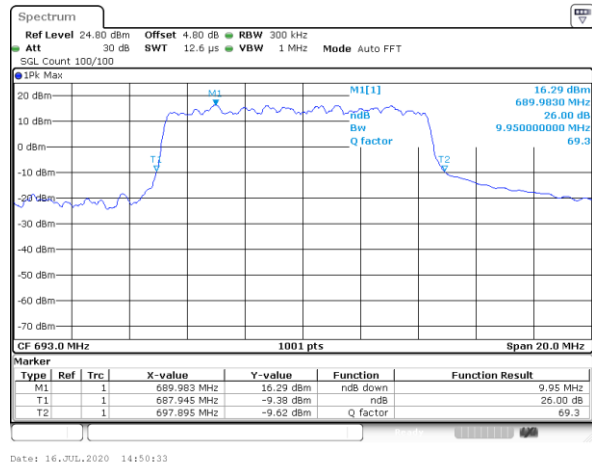
Middle Channel



Highest Channel



Highest Channel

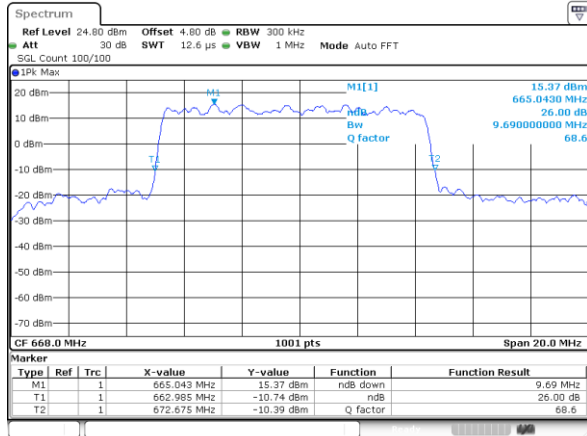




FR1 n71 / 10MHz / DFT-S OFDM

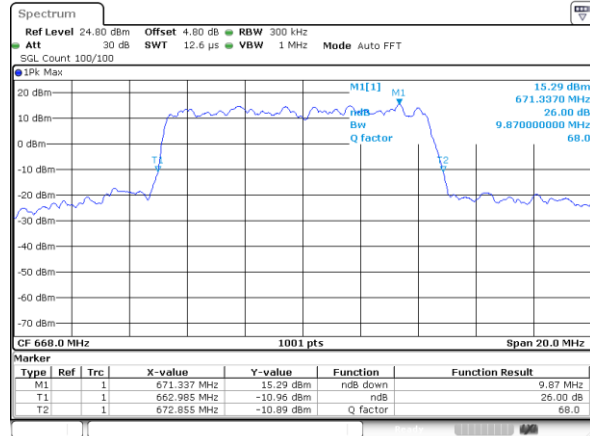
16QAM

Lowest Channel

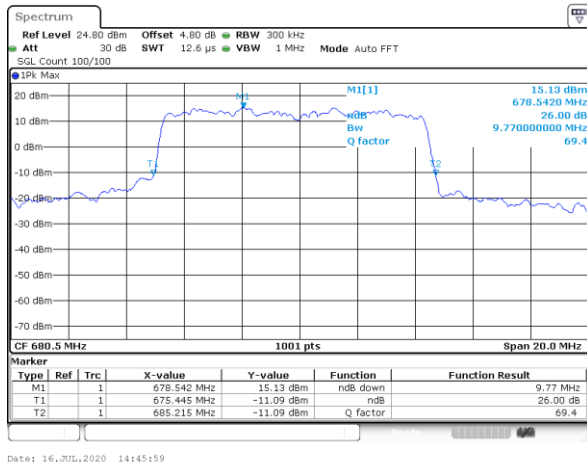


64QAM

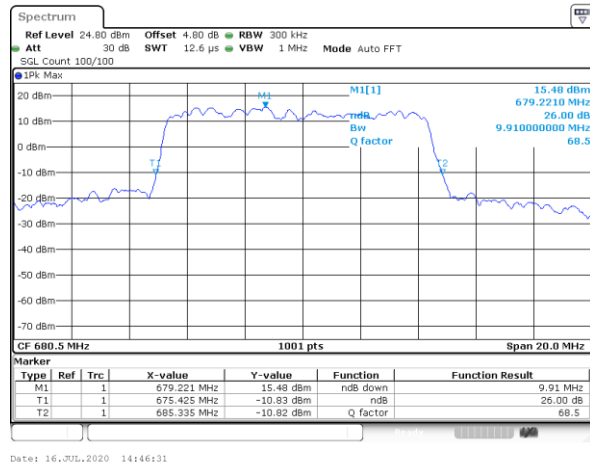
Lowest Channel



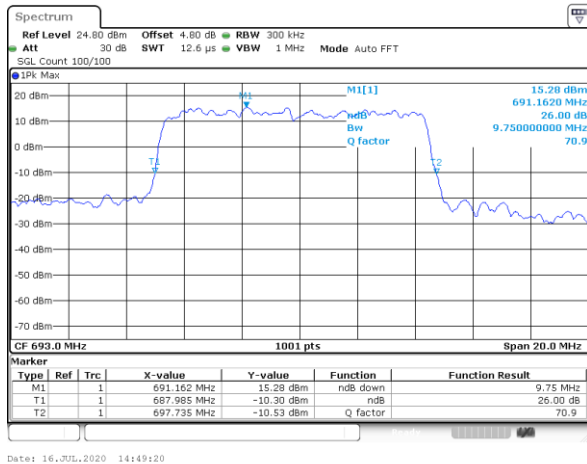
Middle Channel



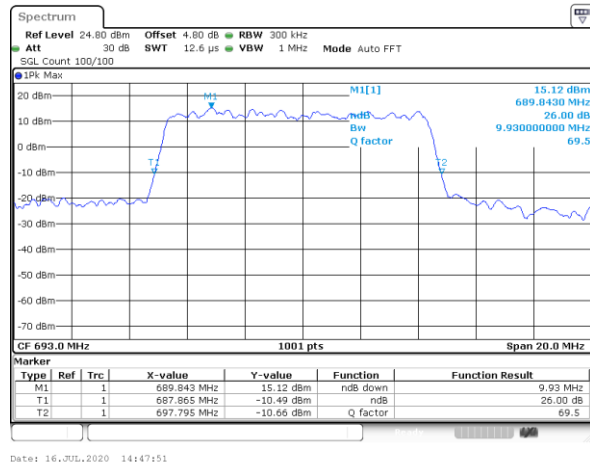
Middle Channel



Highest Channel



Highest Channel

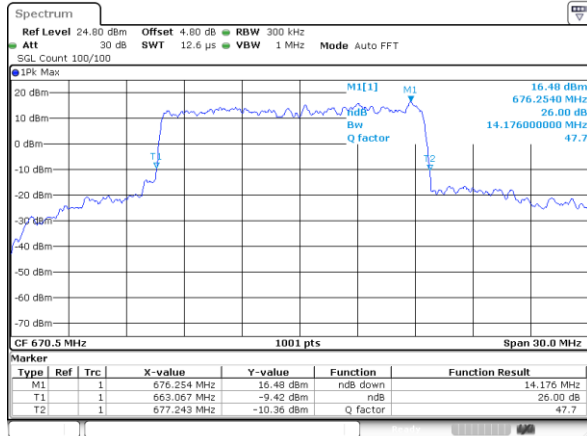




FR1 n71 / 15MHz / DFT-S OFDM

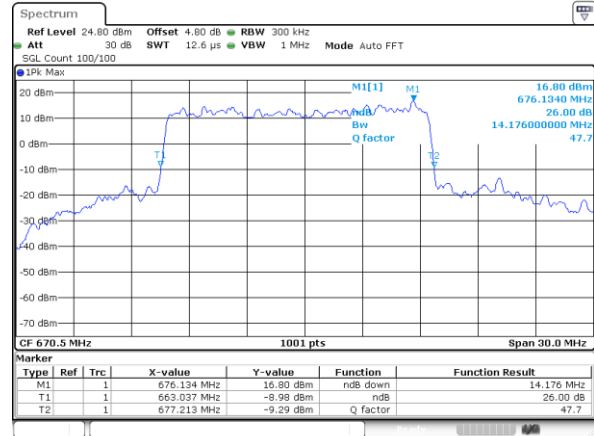
PI / BPSK

Lowest Channel

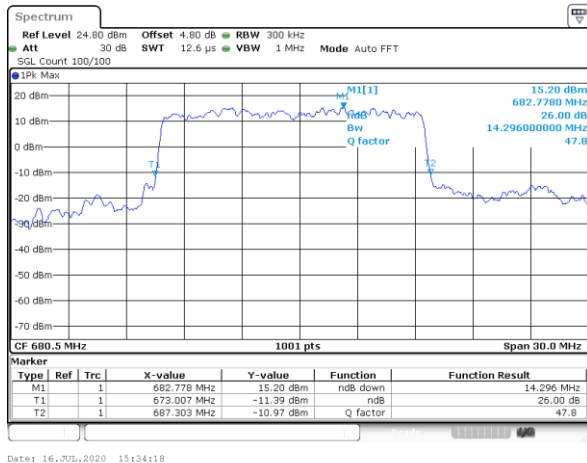


QPSK

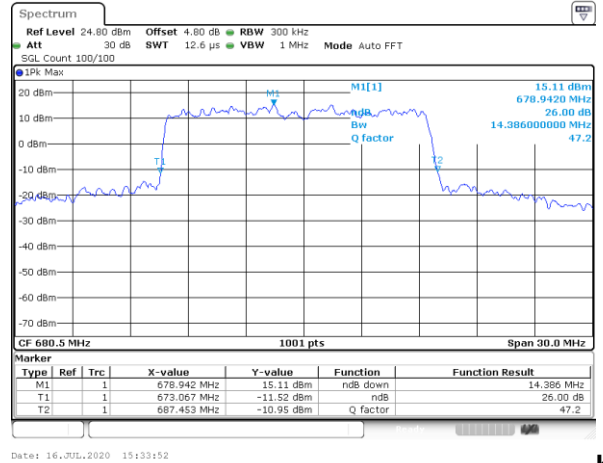
Lowest Channel



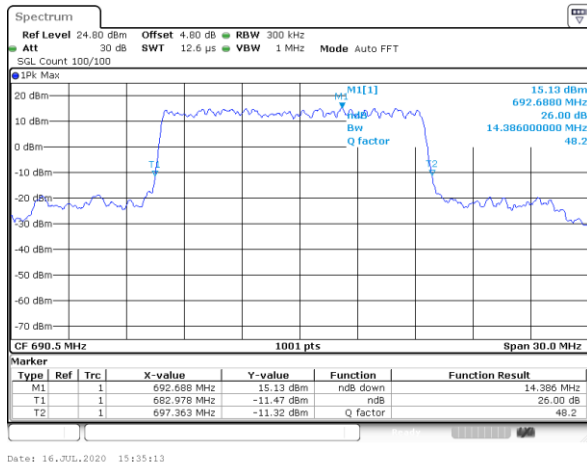
Middle Channel



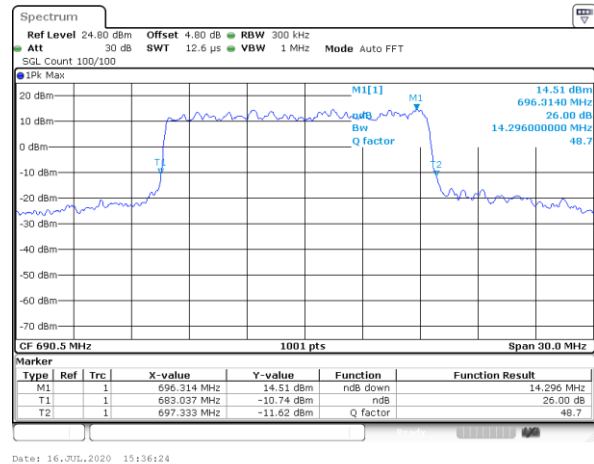
Middle Channel



Highest Channel



Highest Channel

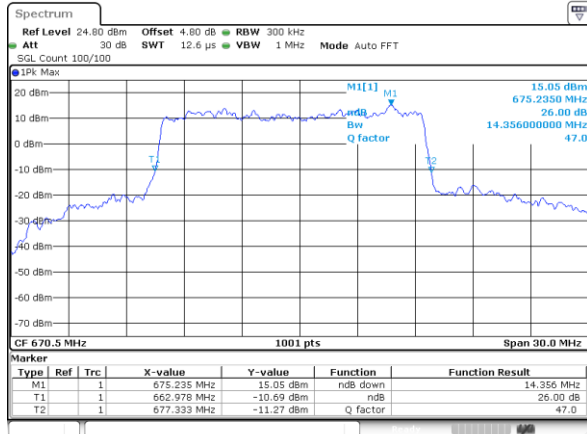




FR1 n71 / 15MHz / DFT-S OFDM

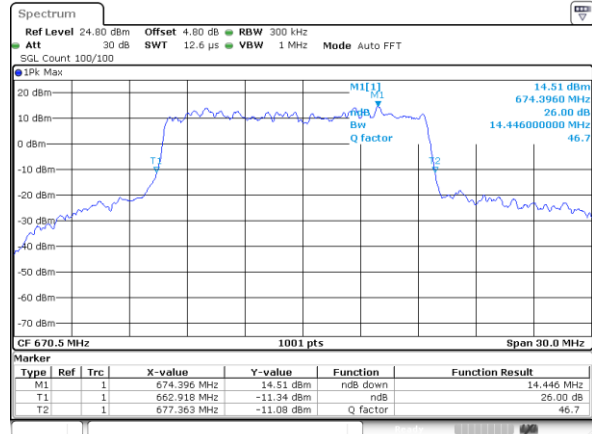
16QAM

Lowest Channel

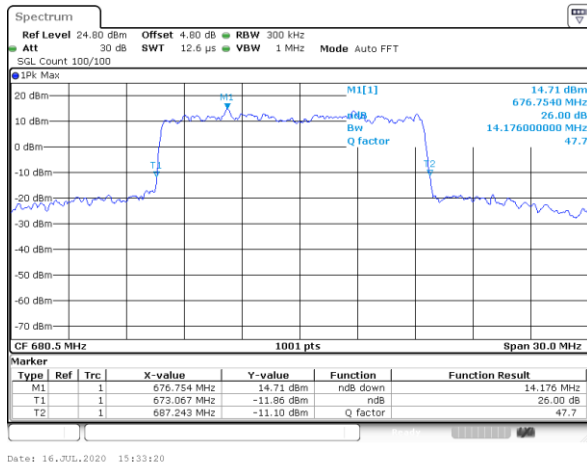


64QAM

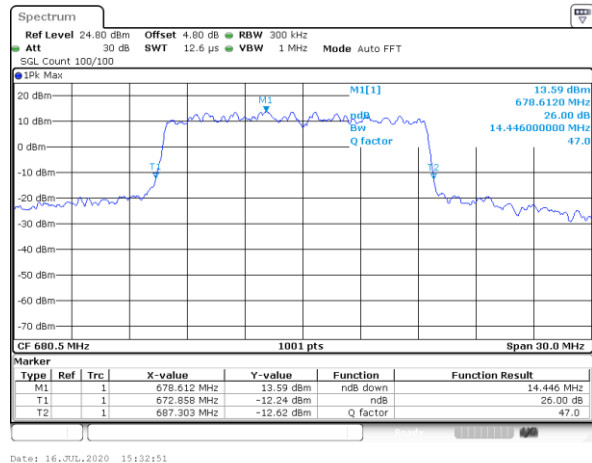
Lowest Channel



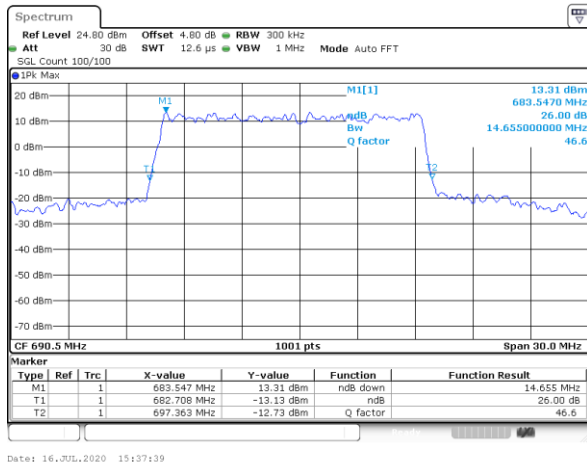
Middle Channel



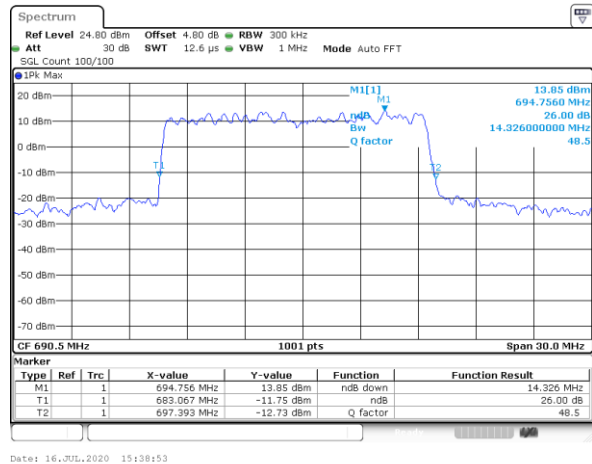
Middle Channel



Highest Channel



Highest Channel

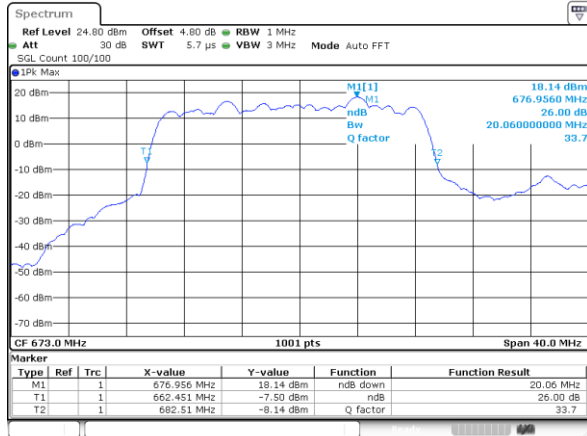




FR1 n71 / 20MHz / DFT-S OFDM

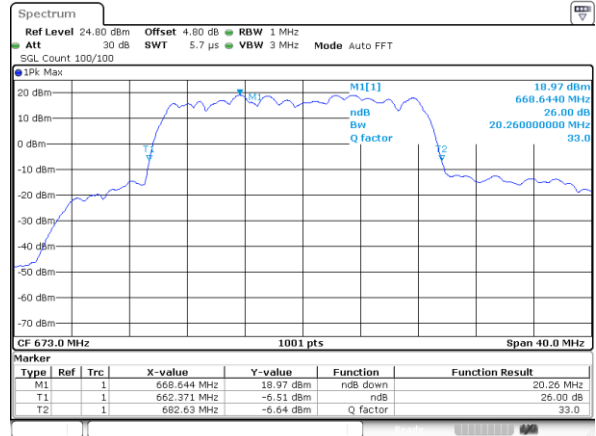
PI / BPSK

Lowest Channel

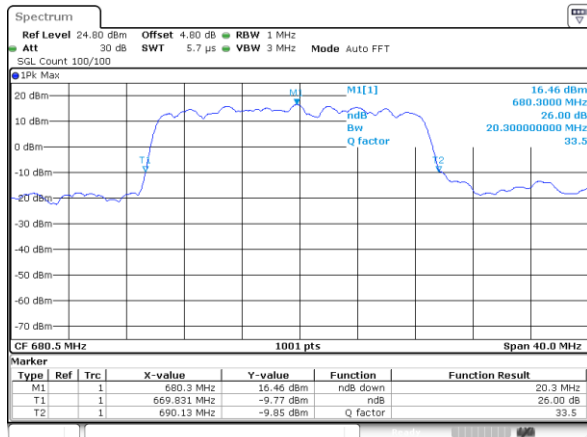


QPSK

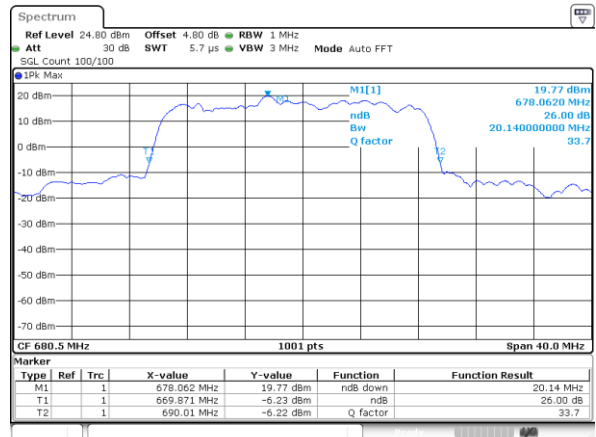
Lowest Channel



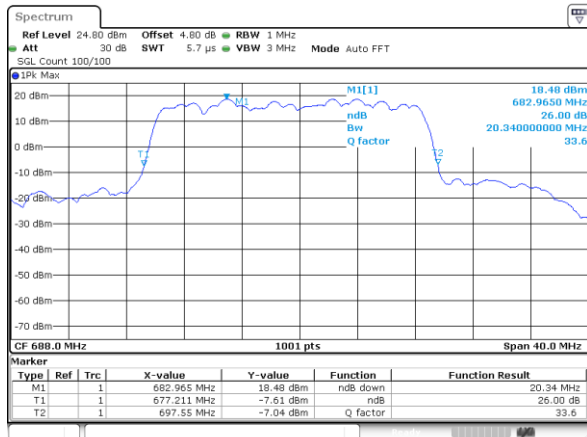
Middle Channel



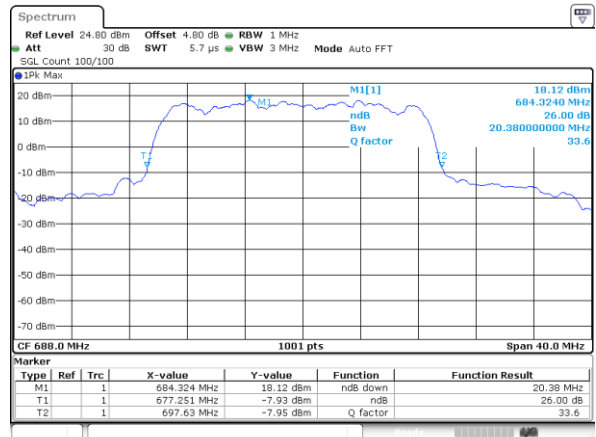
Middle Channel



Highest Channel



Highest Channel

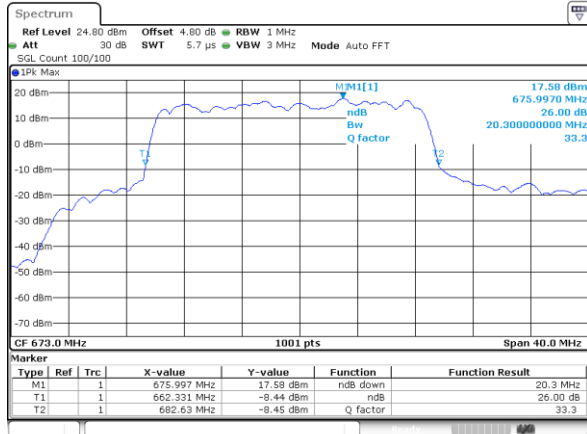




FR1 n71 / 20MHz / DFT-S OFDM

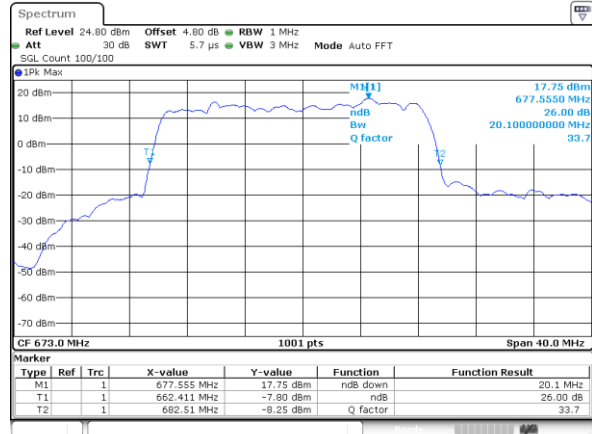
16QAM

Lowest Channel

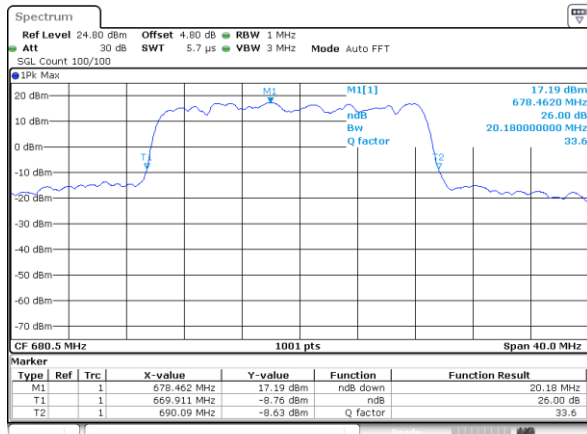


64QAM

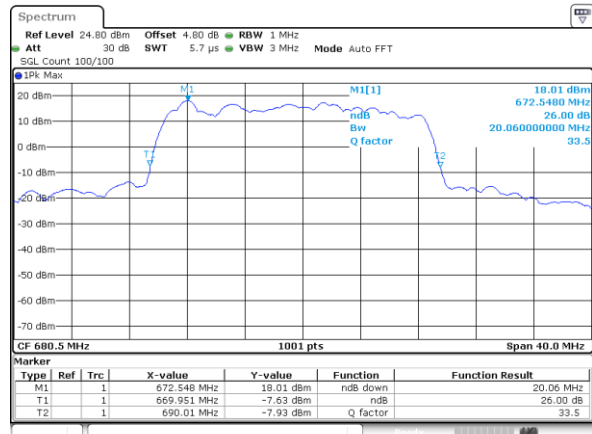
Lowest Channel



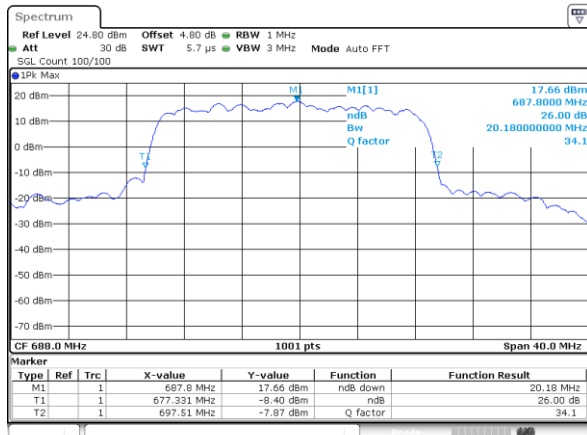
Middle Channel



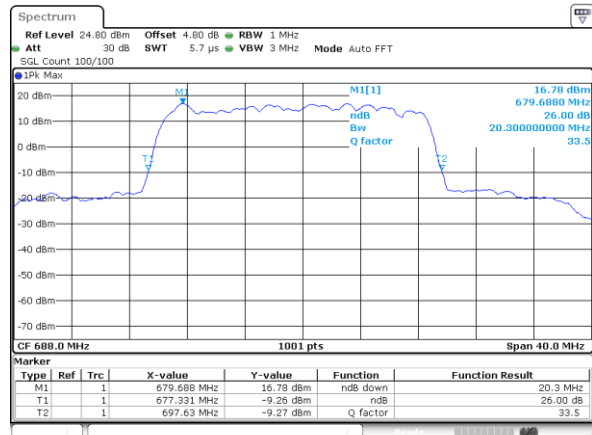
Middle Channel



Highest Channel



Highest Channel



**Occupied Bandwidth**

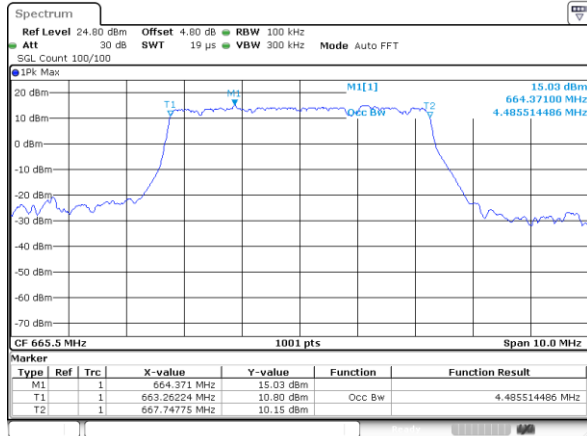
Mode	FR1 n71 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI / BPSK	QPSK	PI / BPSK	QPSK	PI / BPSK	QPSK	PI / BPSK	QPSK
Lowest CH	4.49	4.50	9.07	9.05	13.52	13.49	18.42	18.46
Middle CH	4.46	4.50	9.05	9.05	13.49	13.46	18.30	18.34
Highest CH	4.45	4.52	9.05	8.99	13.49	13.49	18.46	18.26
Mode	FR1 n71 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Lowest CH	4.47	4.48	9.05	9.07	13.55	13.49	18.54	18.34
Middle CH	4.54	4.49	9.03	9.07	13.49	13.52	18.38	18.38
Highest CH	4.51	4.49	9.05	9.05	13.55	13.52	18.38	18.30



FR1 n71 / 5MHz / DFT-S OFDM

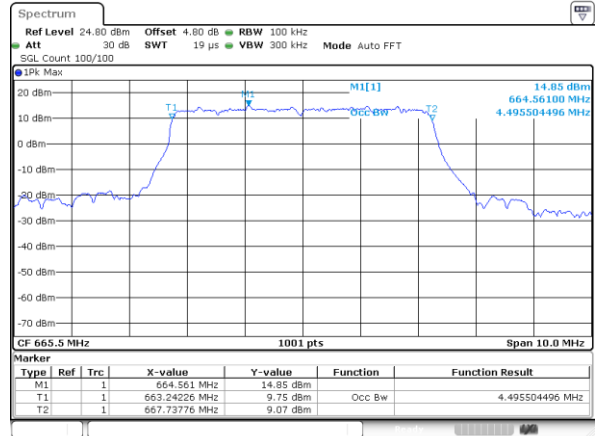
PI / BPSK

Lowest Channel

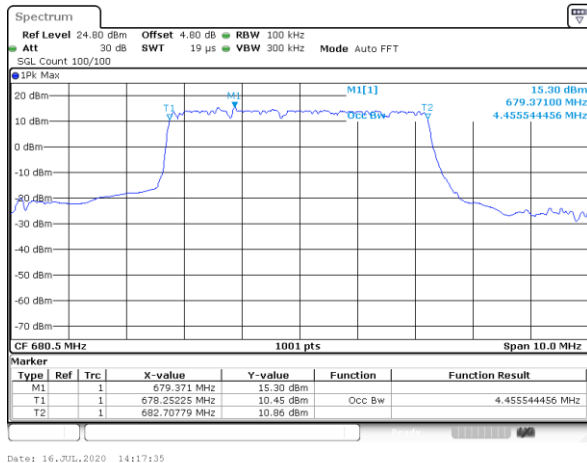


QPSK

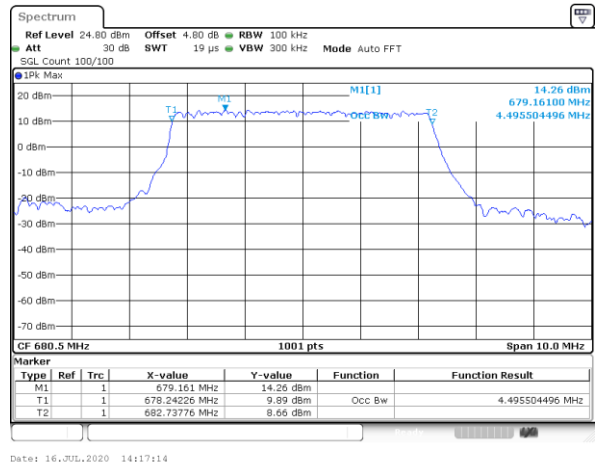
Lowest Channel



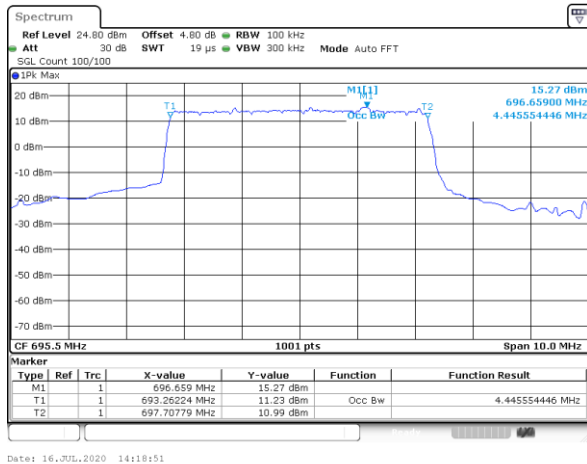
Middle Channel



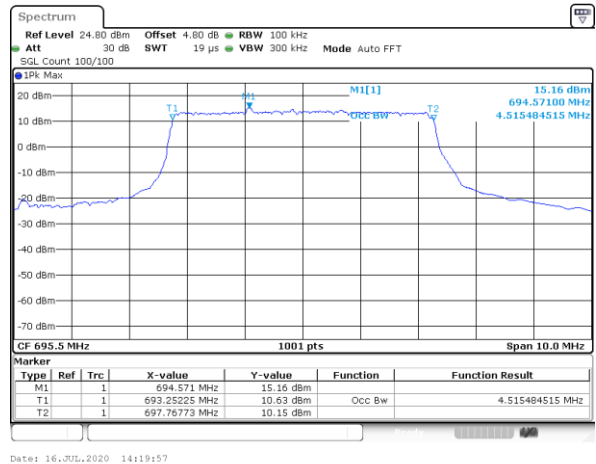
Middle Channel



Highest Channel



Highest Channel

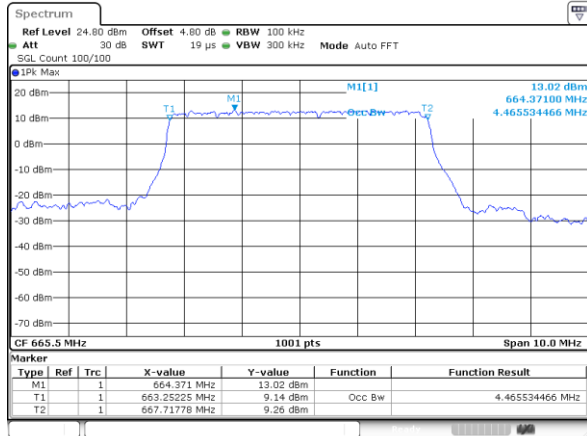




FR1 n71 / 5MHz / DFT-S OFDM

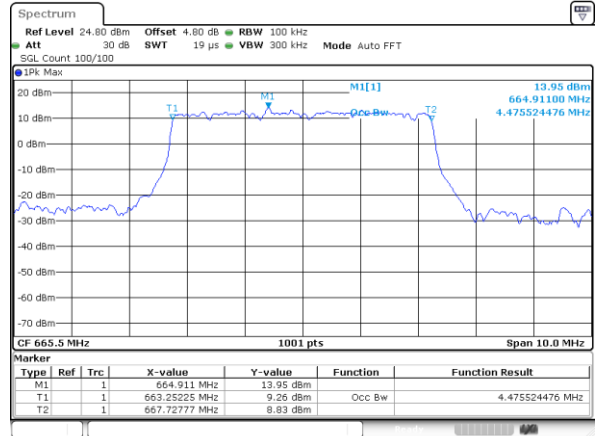
16QAM

Lowest Channel

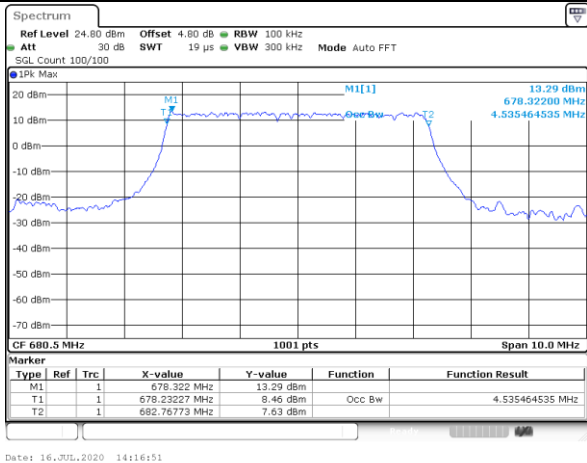


64QAM

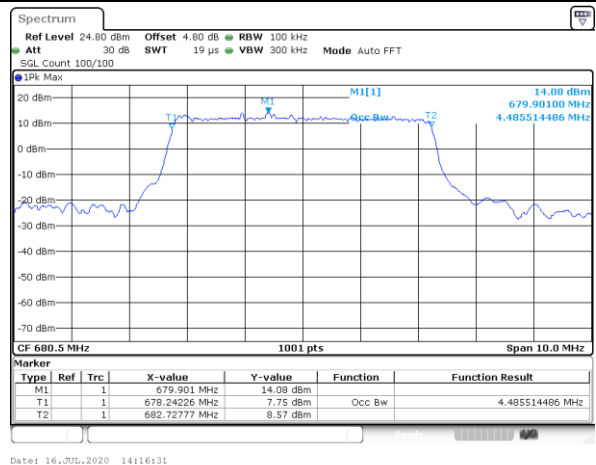
Lowest Channel



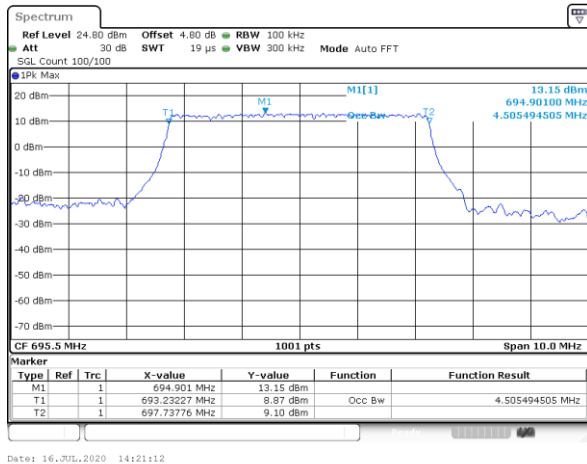
Middle Channel



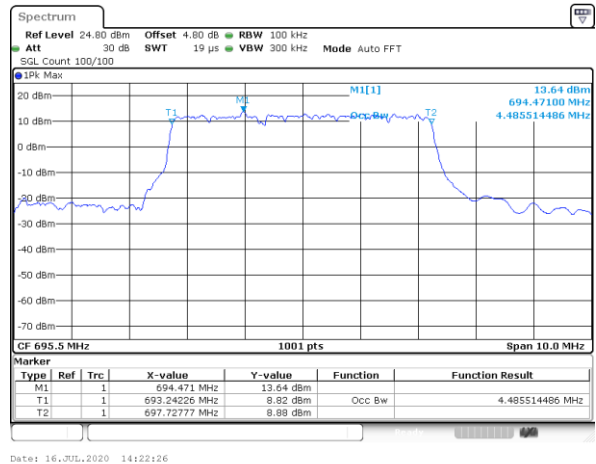
Middle Channel



Highest Channel



Highest Channel

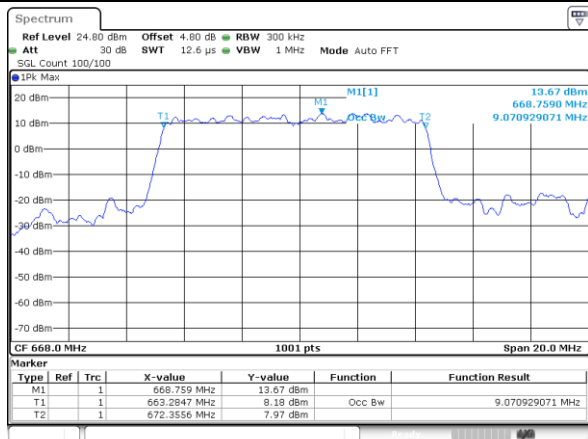




FR1 n71 / 10MHz / DFT-S OFDM

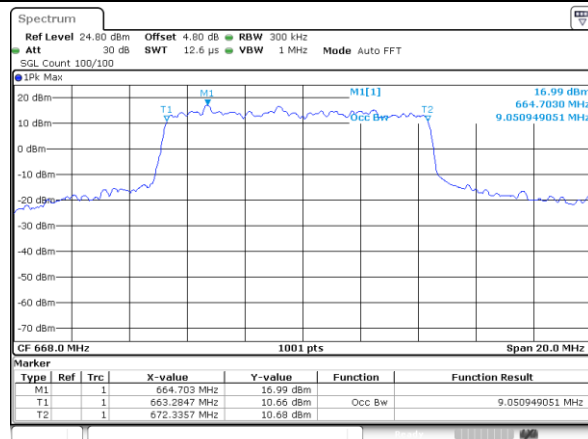
PI / BPSK

Lowest Channel

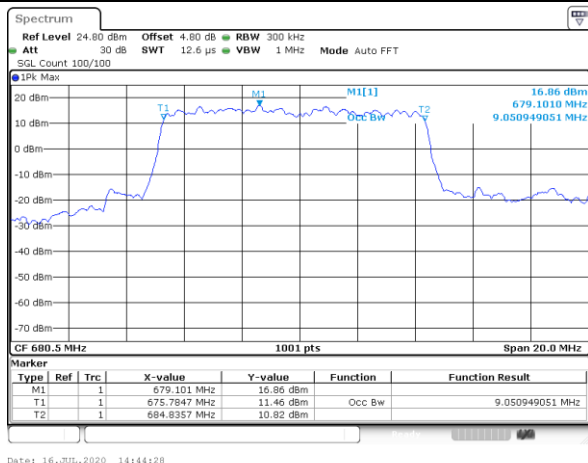


QPSK

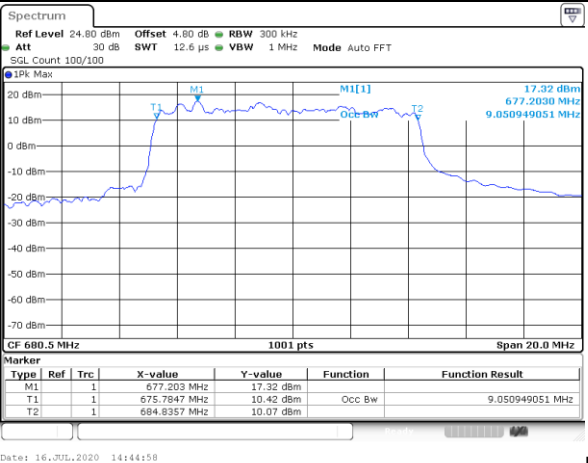
Lowest Channel



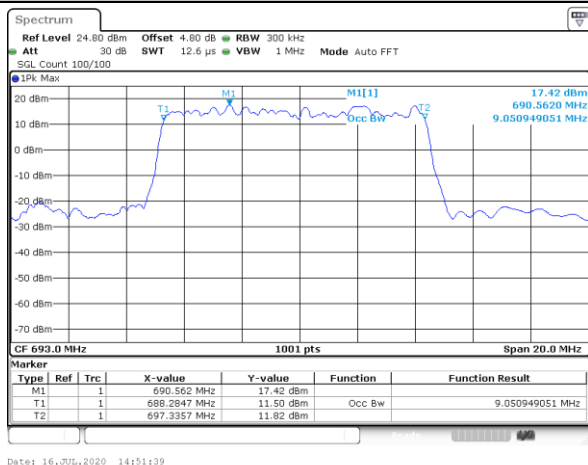
Middle Channel



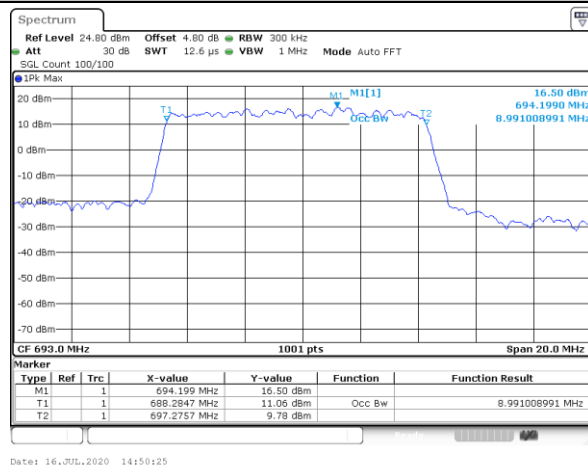
Middle Channel



Highest Channel



Highest Channel



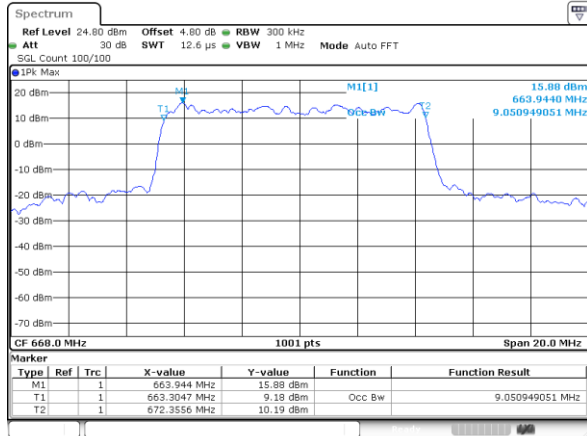
K



FR1 n71 / 10MHz / DFT-S OFDM

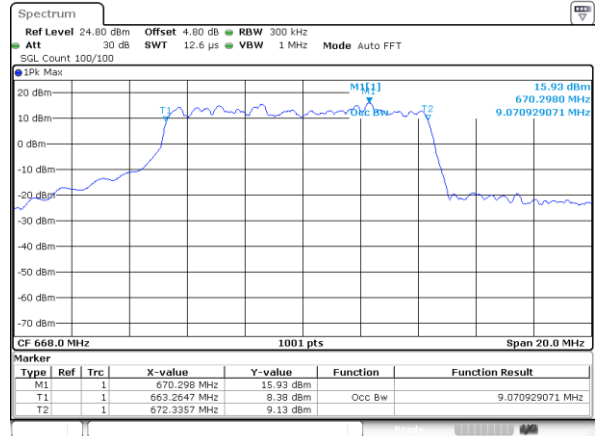
16QAM

Lowest Channel

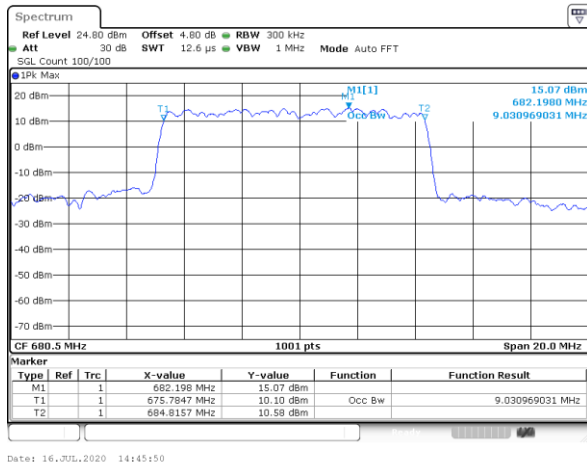


64QAM

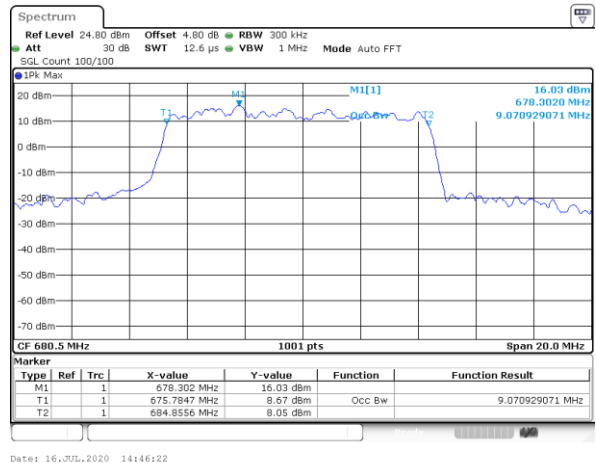
Lowest Channel



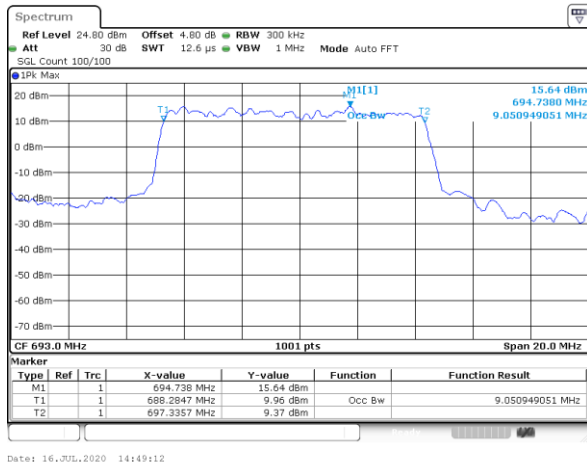
Middle Channel



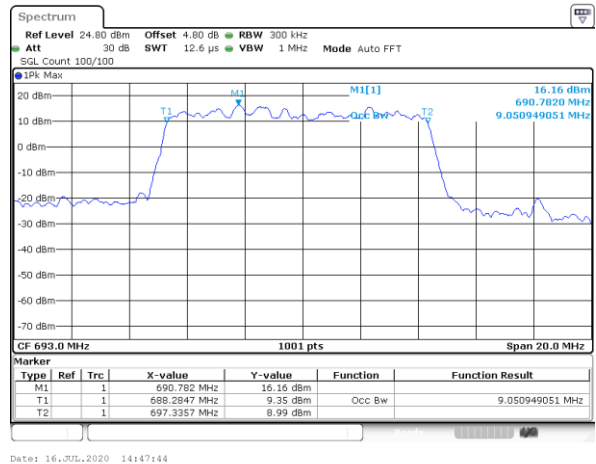
Middle Channel



Highest Channel



Highest Channel





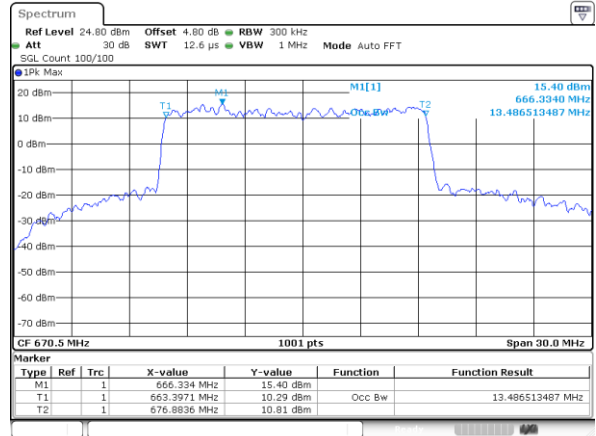
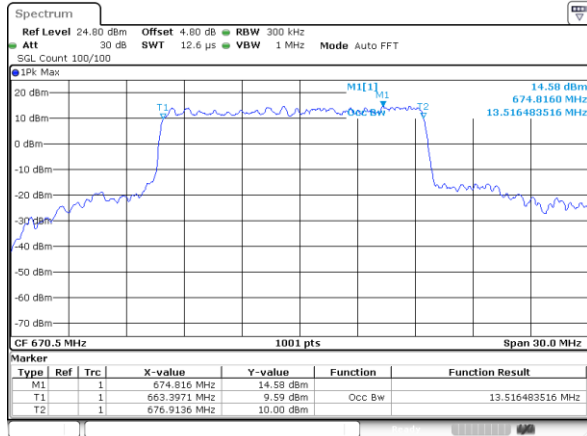
FR1 n71 / 15MHz / DFT-S OFDM

PI / BPSK

QPSK

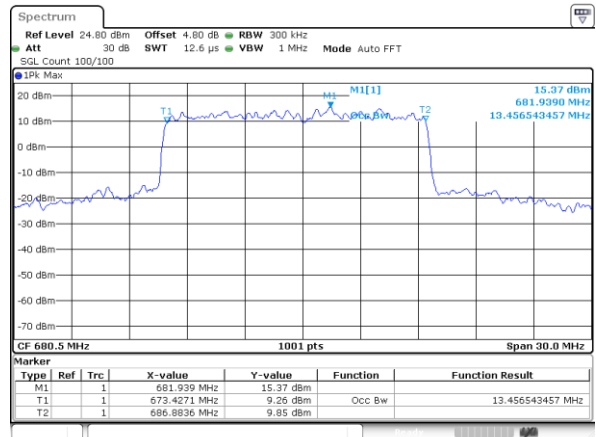
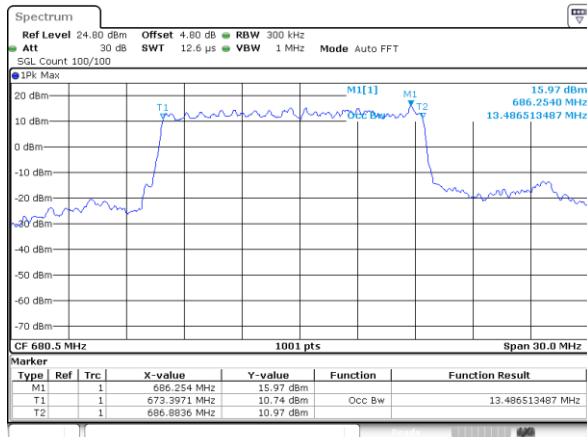
Lowest Channel

Lowest Channel



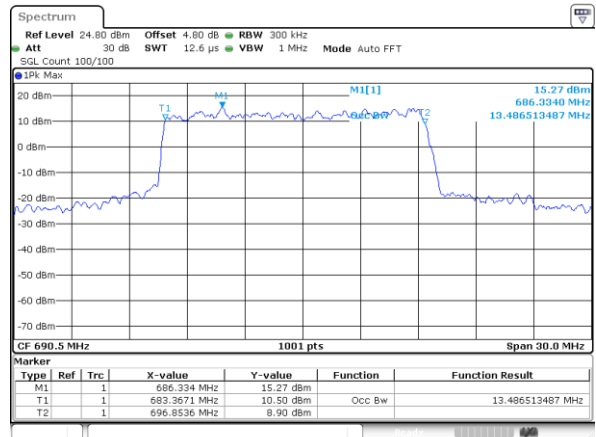
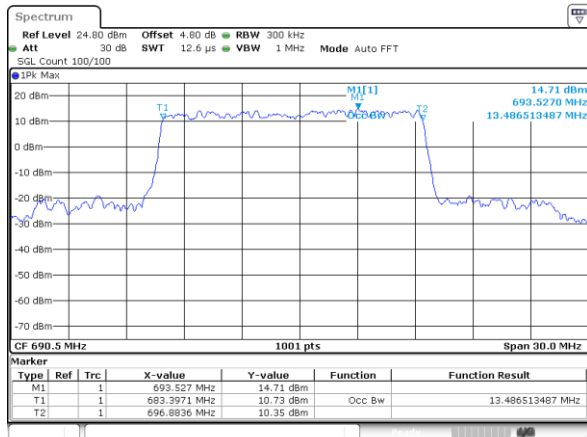
Middle Channel

Middle Channel



Highest Channel

Highest Channel

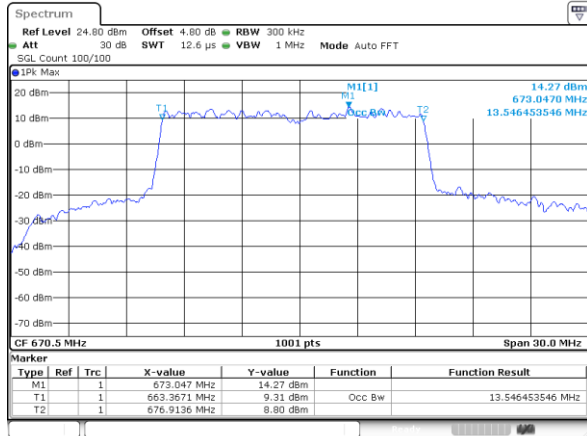




FR1 n71 / 15MHz / DFT-S OFDM

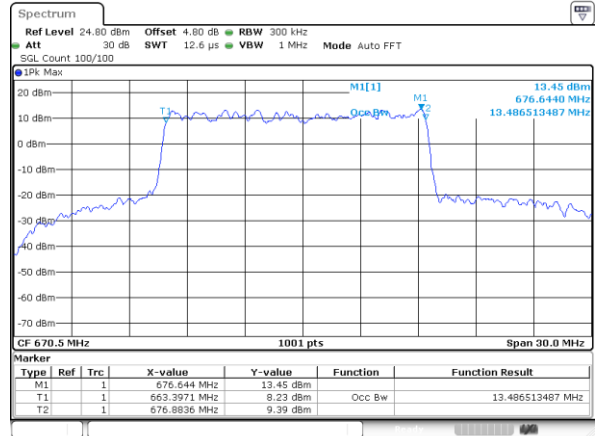
16QAM

Lowest Channel

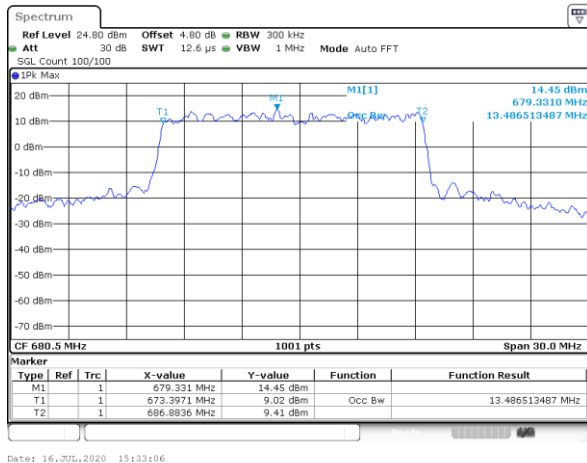


64QAM

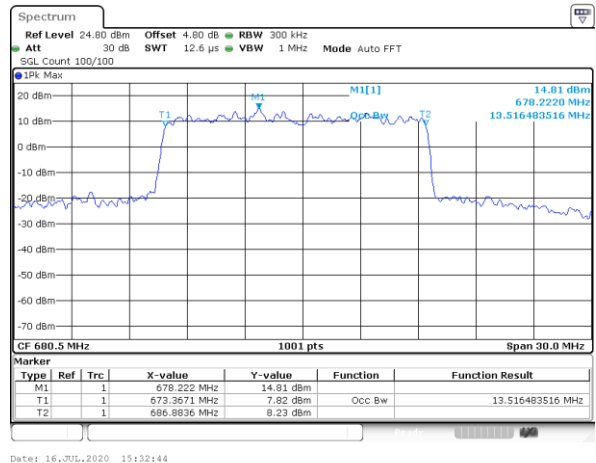
Lowest Channel



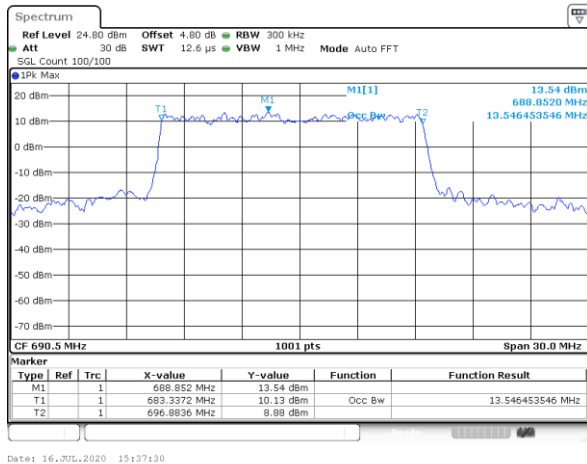
Middle Channel



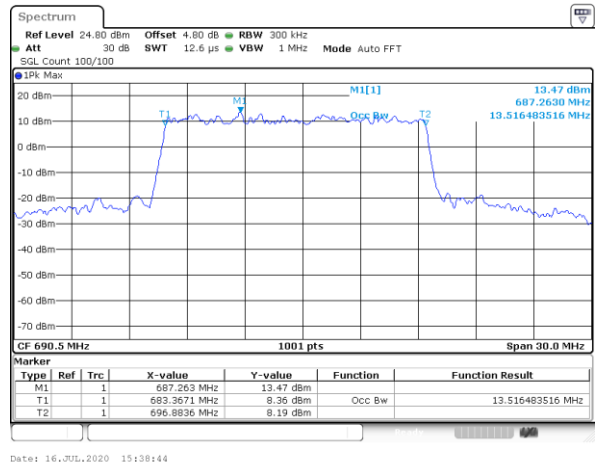
Middle Channel



Highest Channel



Highest Channel

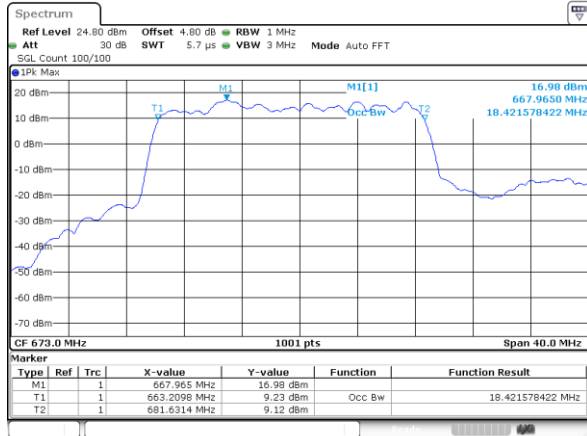




FR1 n71 / 20MHz / DFT-S OFDM

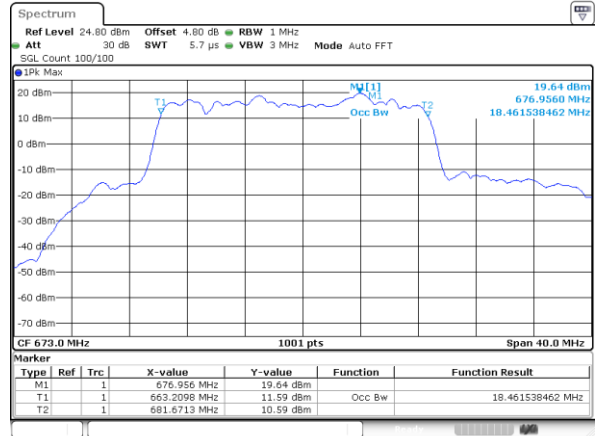
PI / BPSK

Lowest Channel

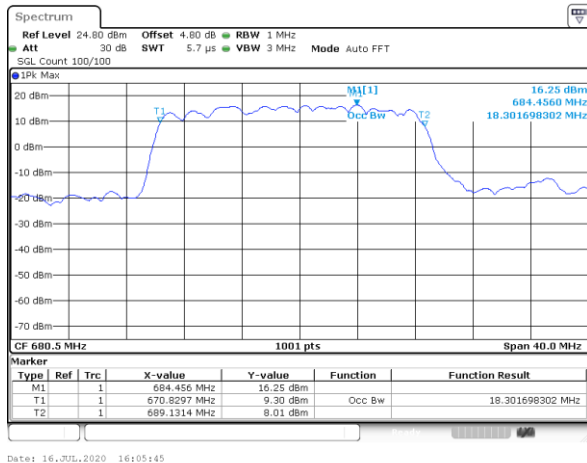


QPSK

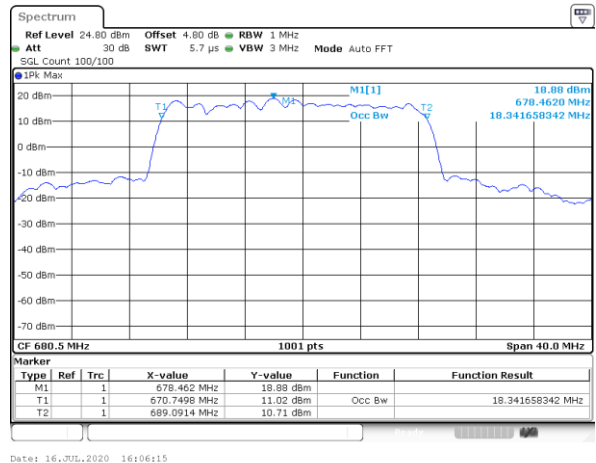
Lowest Channel



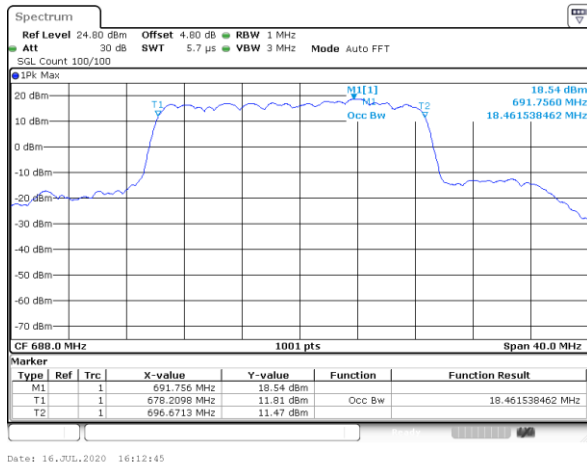
Middle Channel



Middle Channel



Highest Channel



Highest Channel

