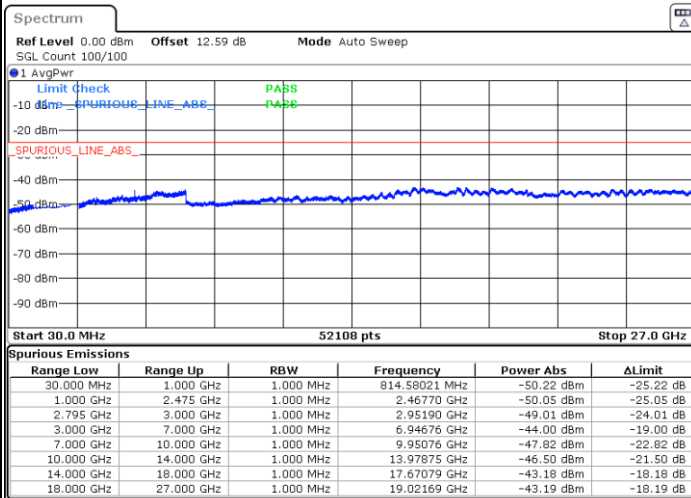




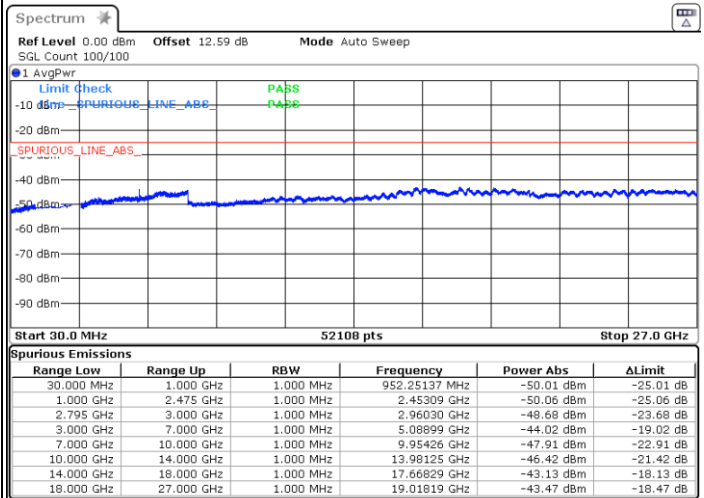
FR1 n41 /100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

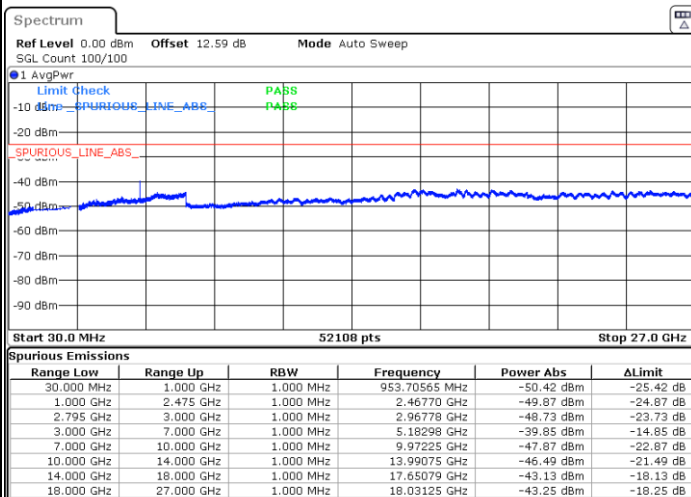


Date: 14.JUN.2022 16:56:55



Date: 14.JUN.2022 16:51:41

Highest Channel / 1RB1



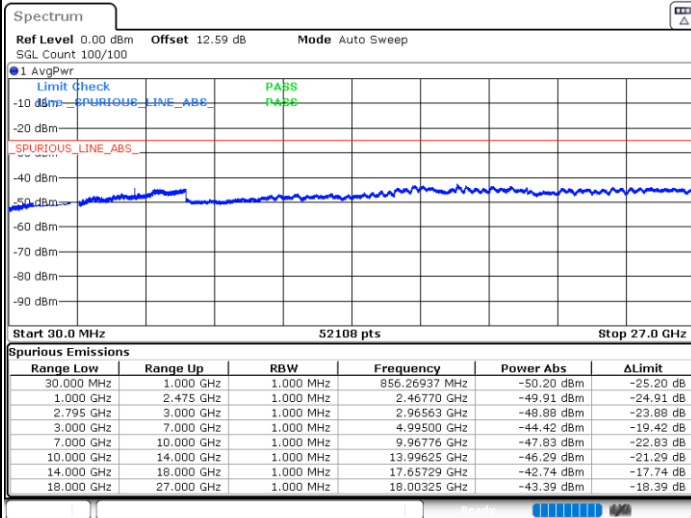
Date: 14.JUN.2022 17:13:55



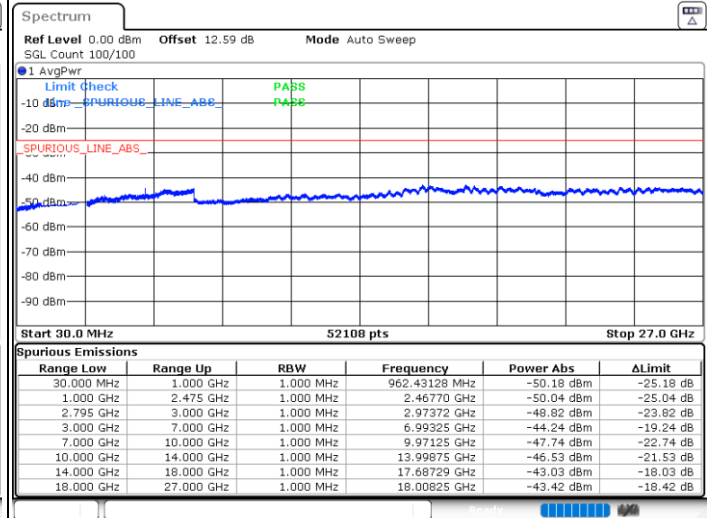
FR1 n41 /100MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

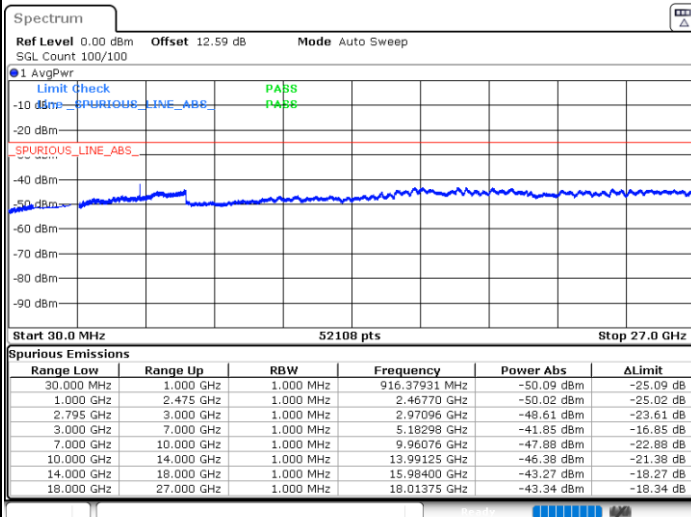


Date: 14.JUN.2022 16:55:40



Date: 14.JUN.2022 16:53:25

Highest Channel / 1RB1



Date: 14.JUN.2022 17:12:51

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0001	

Note:

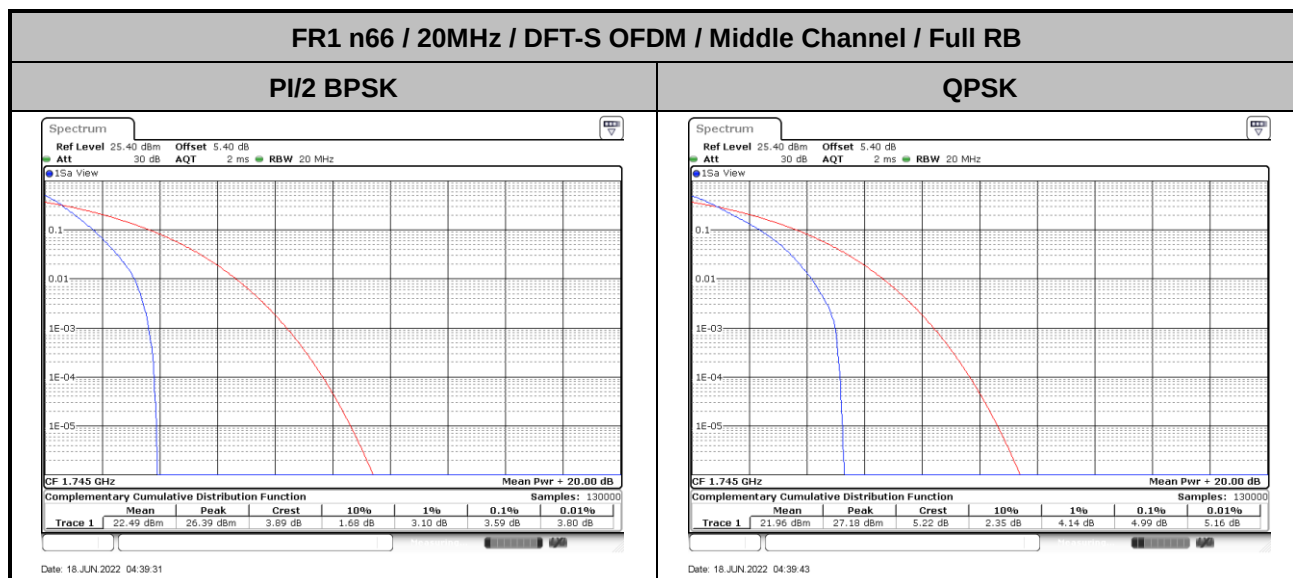
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n66

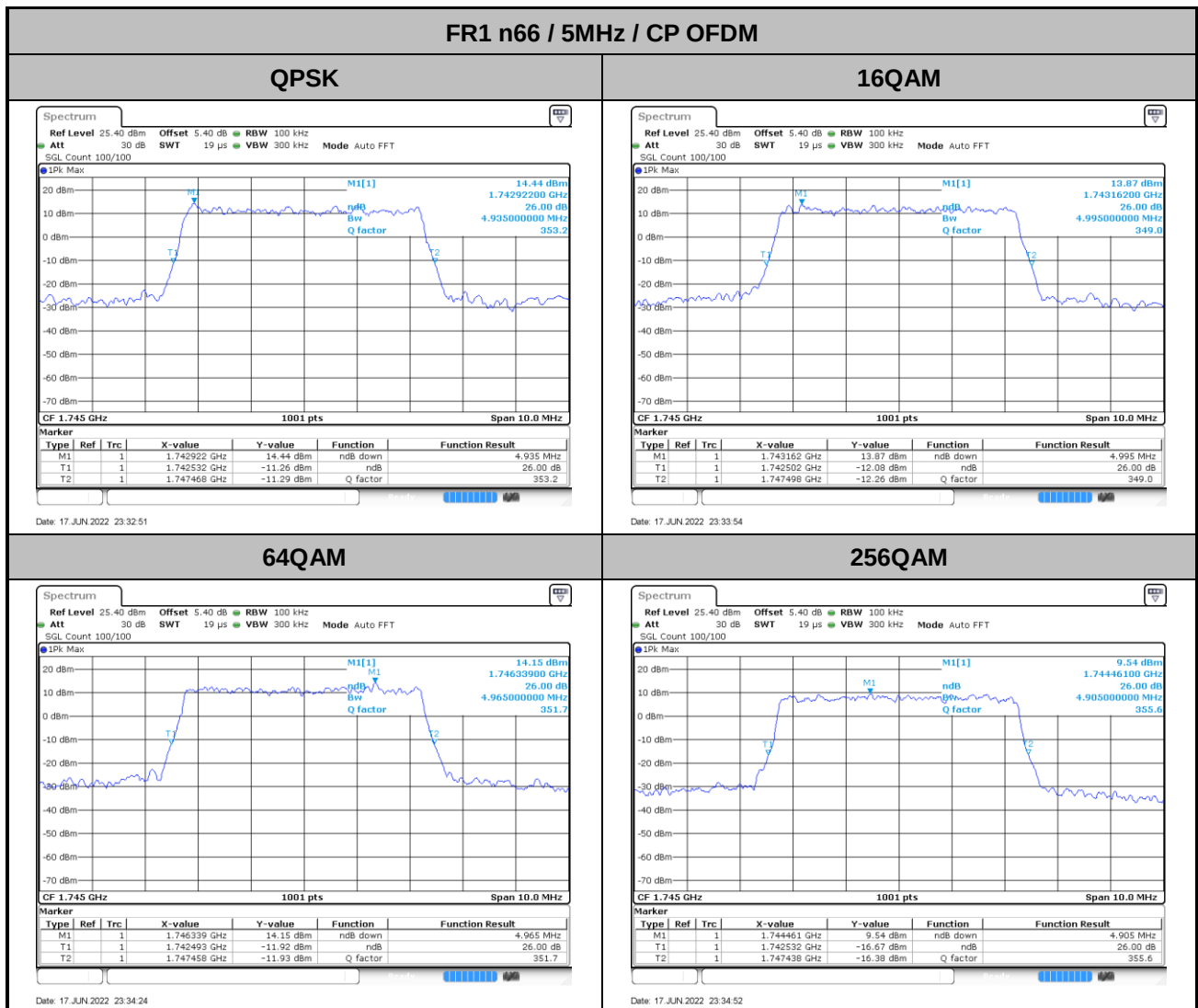
Peak-to-Average Ratio

Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK			Limit: 13dB
RB Size	Full RB	Full RB			Result
Middle CH	3.59	4.99			PASS



**26dB Bandwidth**

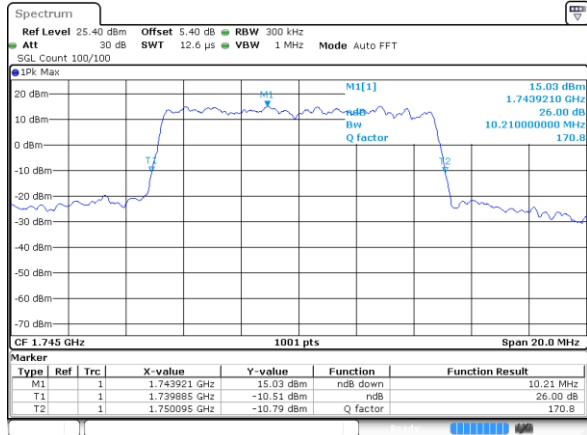
Mode	FR1 n66 : 26dBW (MHz) / CP OFDM									
BW	5M					10M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		4.94	5.00	4.97	4.91		10.21	10.05	10.01	10.05
BW	15M					20M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		14.99	14.84	14.93	14.93		21.94	21.30	21.46	21.18



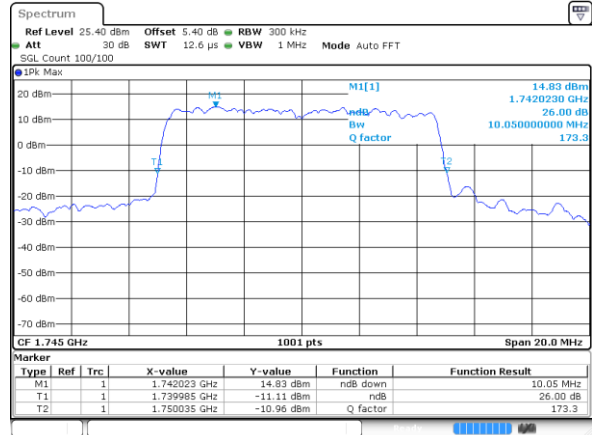


FR1 n66 / 10MHz / CP OFDM

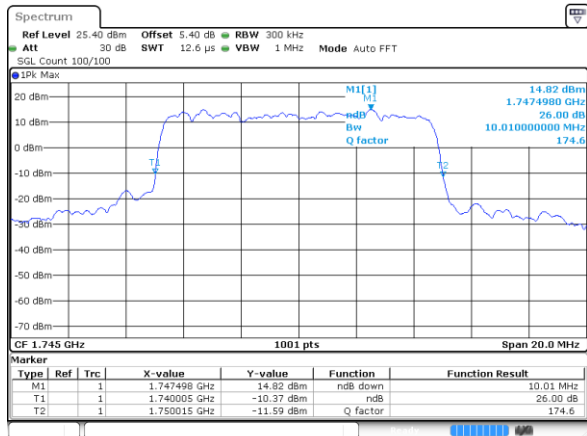
QPSK



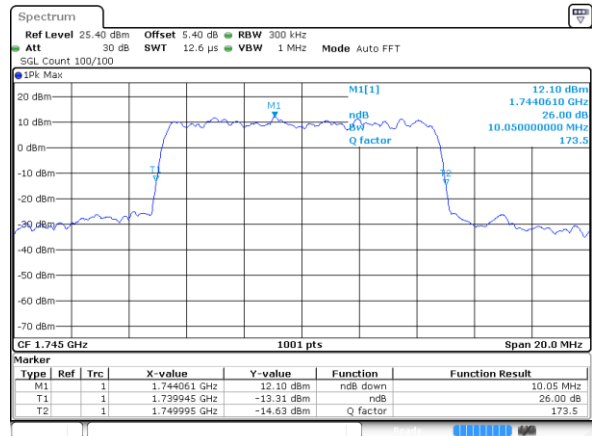
16QAM



64QAM



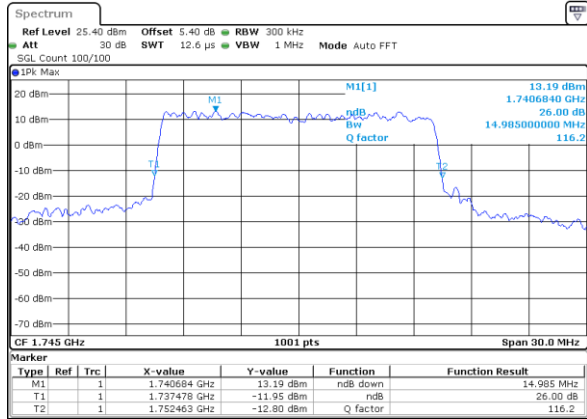
256QAM





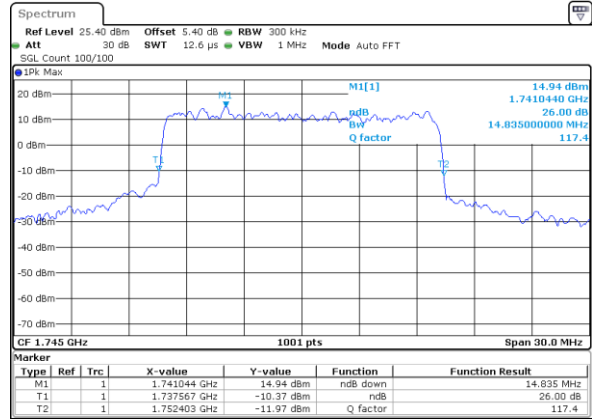
FR1 n66 / 15MHz / CP OFDM

QPSK



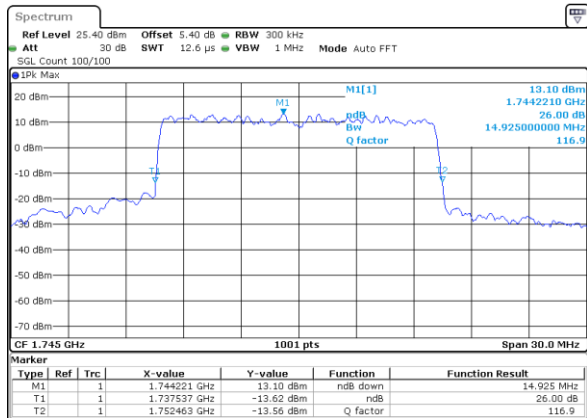
Date: 18 JUN 2022 00:55:39

16QAM



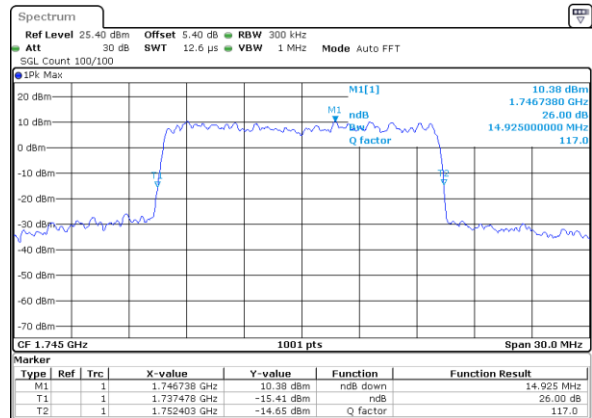
Date: 18 JUN 2022 00:59:44

64QAM



Date: 18 JUN 2022 01:00:11

256QAM

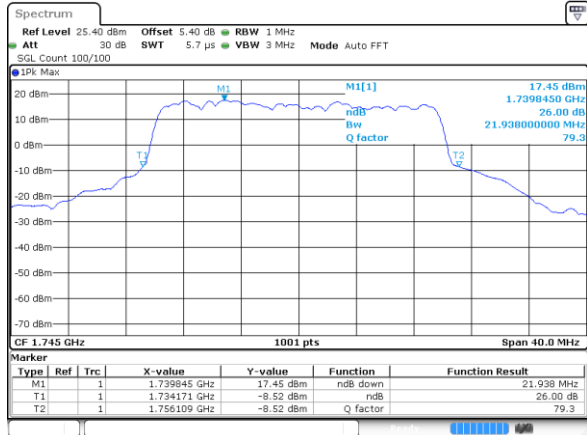


Date: 18 JUN 2022 01:02:50



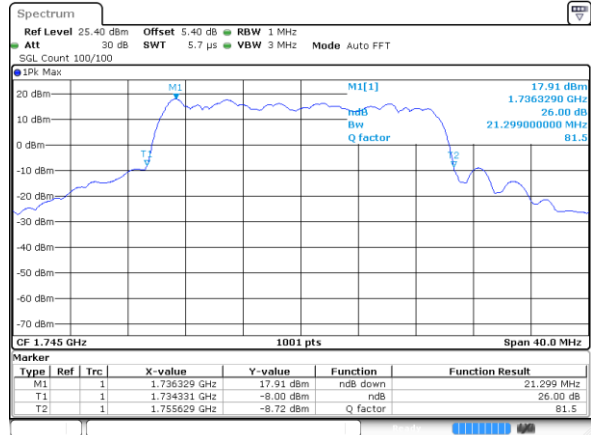
FR1 n66 / 20MHz / CP OFDM

QPSK



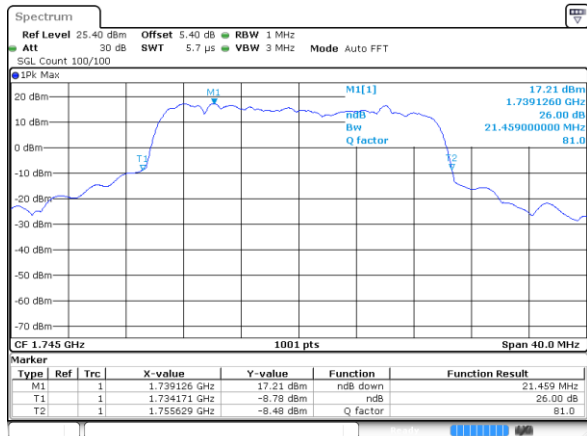
Date: 18 JUN 2022 02:25:42

16QAM



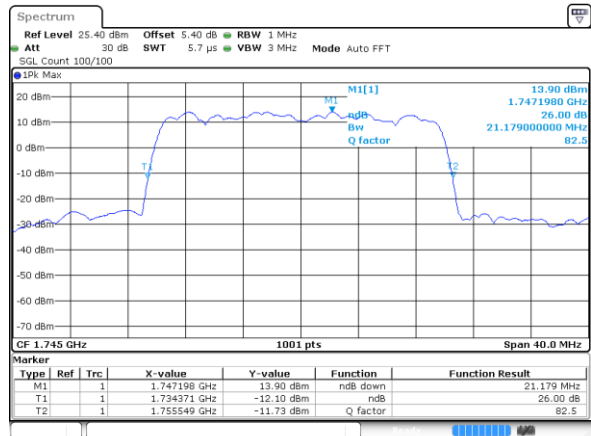
Date: 18 JUN 2022 02:26:40

64QAM



Date: 18 JUN 2022 02:27:01

256QAM

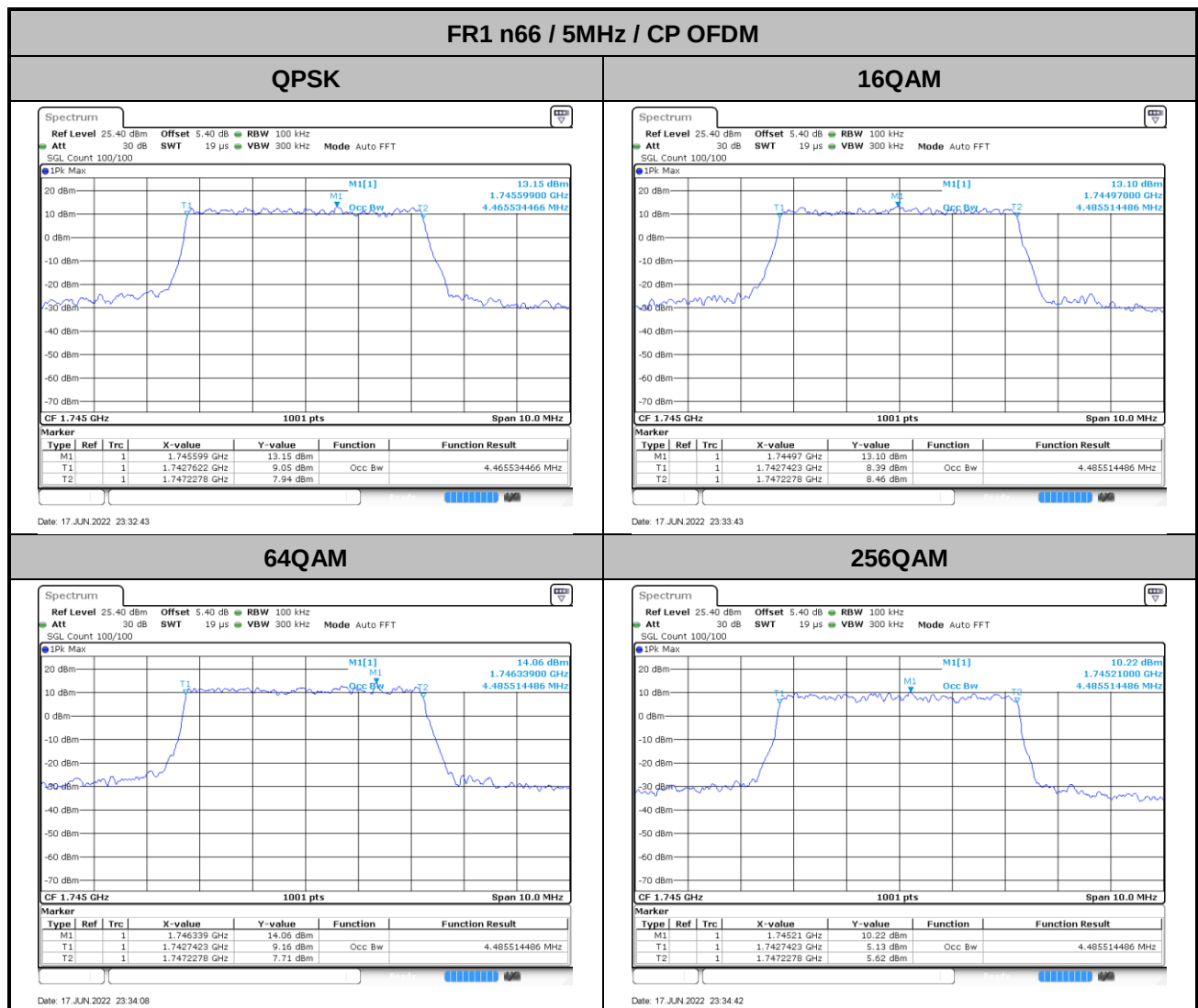


Date: 18 JUN 2022 02:27:33



Occupied Bandwidth

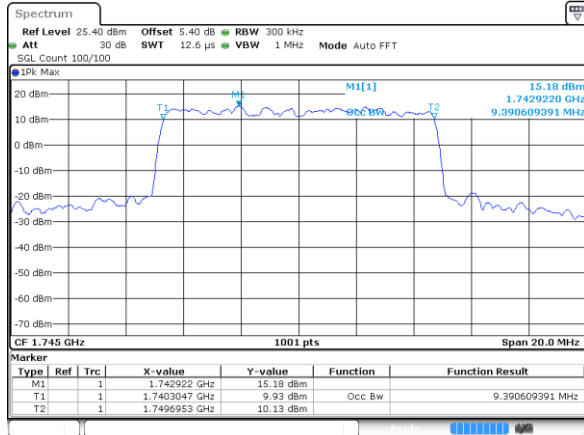
Mode	FR1 n66 : OB (MHz) / CP OFDM									
BW	5M					10M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		4.47	4.49	4.49	4.49		9.39	9.35	9.39	9.43
BW	15M					20M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		14.12	14.15	14.12	14.18		19.46	19.50	19.62	19.58



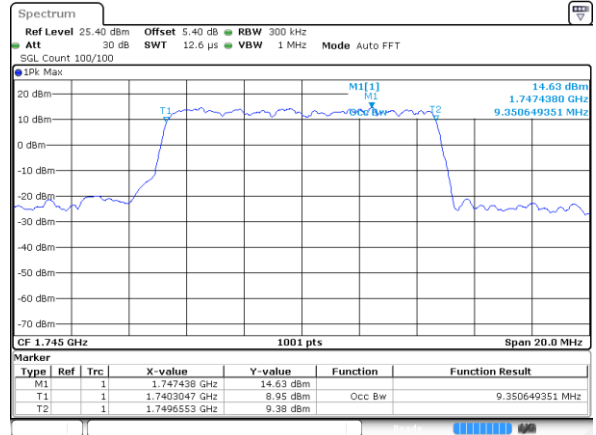


FR1 n66 / 10MHz / CP OFDM

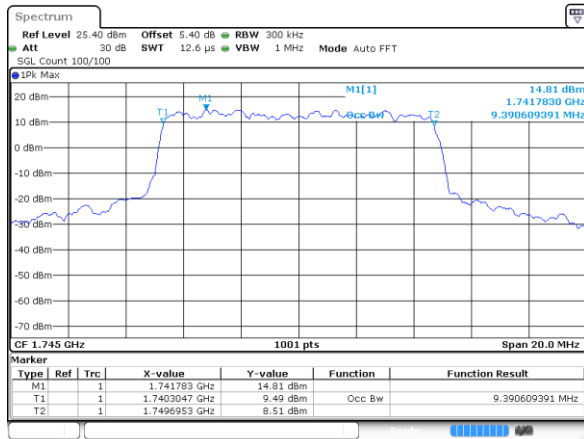
QPSK



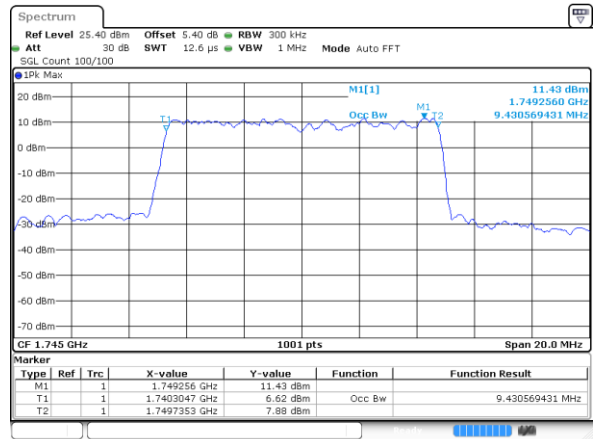
16QAM



64QAM



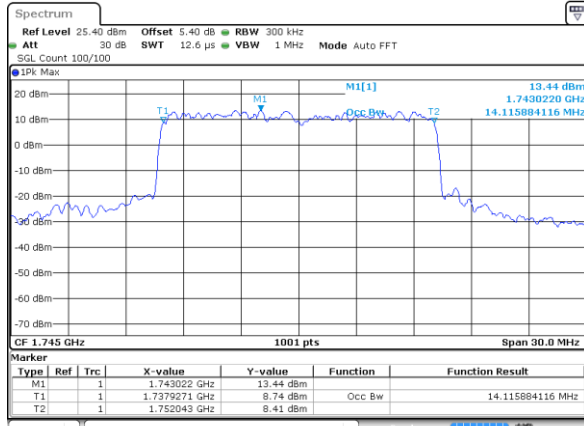
256QAM



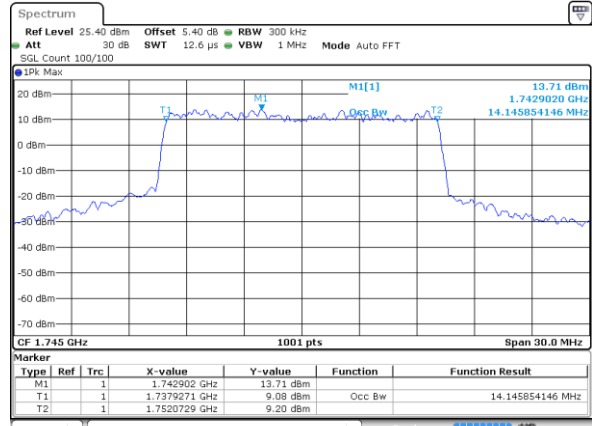


FR1 n66 / 15MHz / CP OFDM

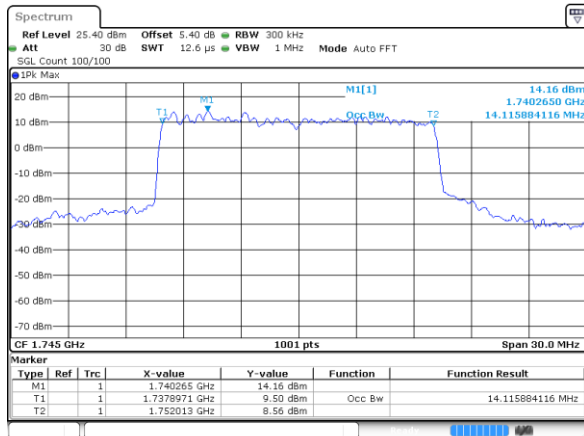
QPSK



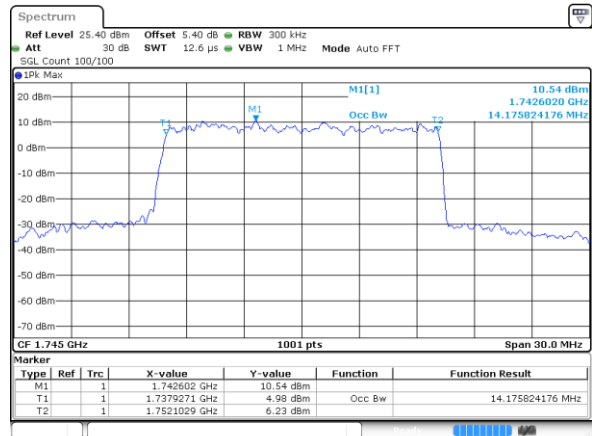
16QAM



64QAM



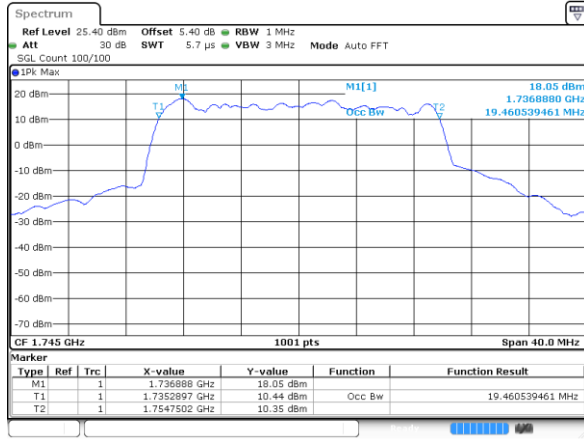
256QAM



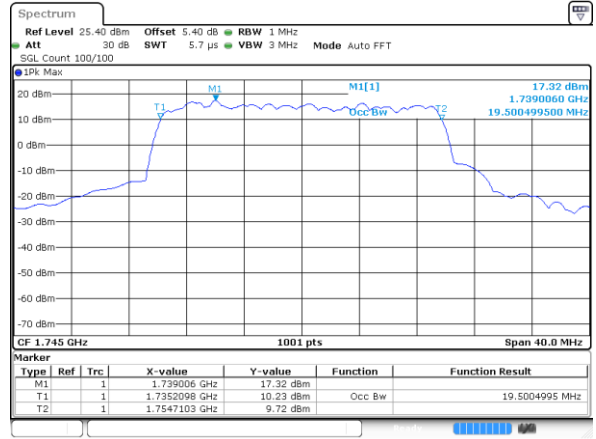


FR1 n66 / 20MHz / CP OFDM

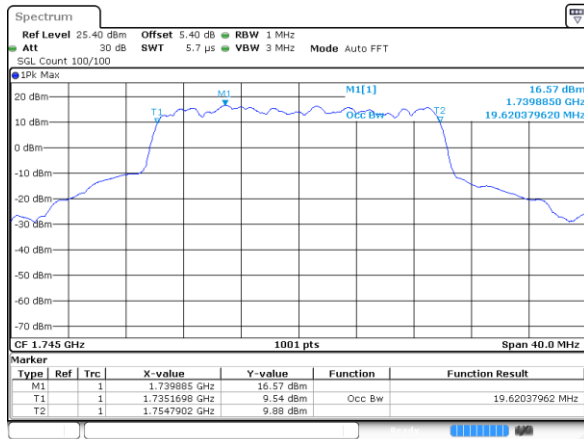
QPSK



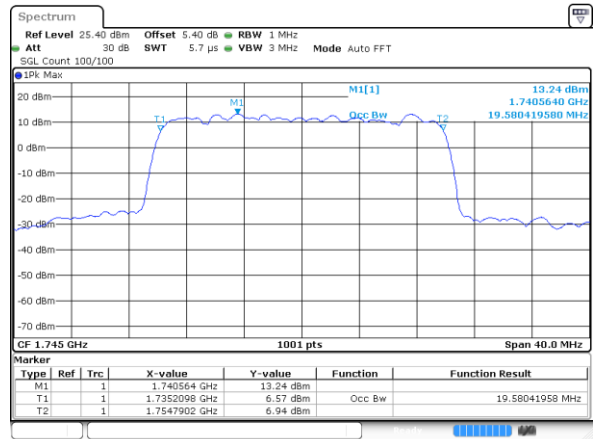
16QAM



64QAM



256QAM



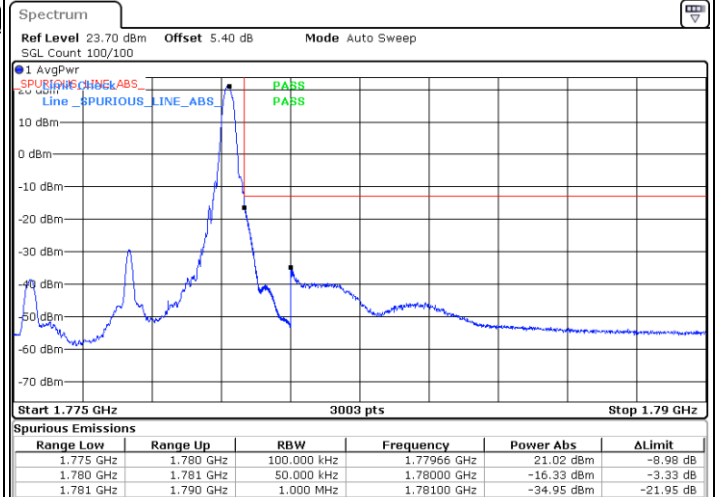
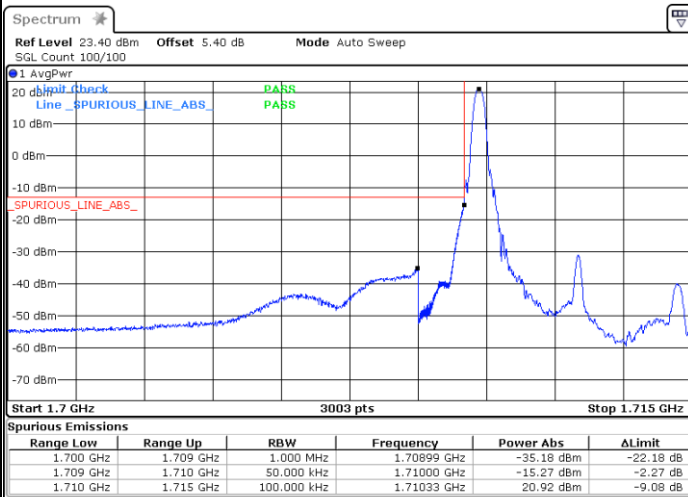


Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

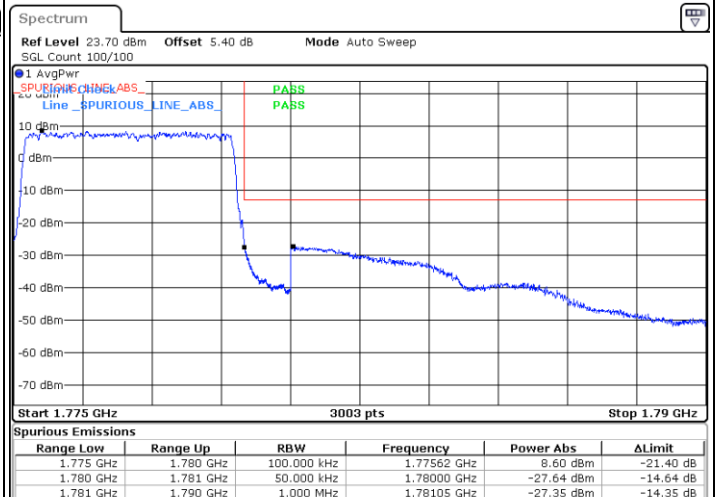
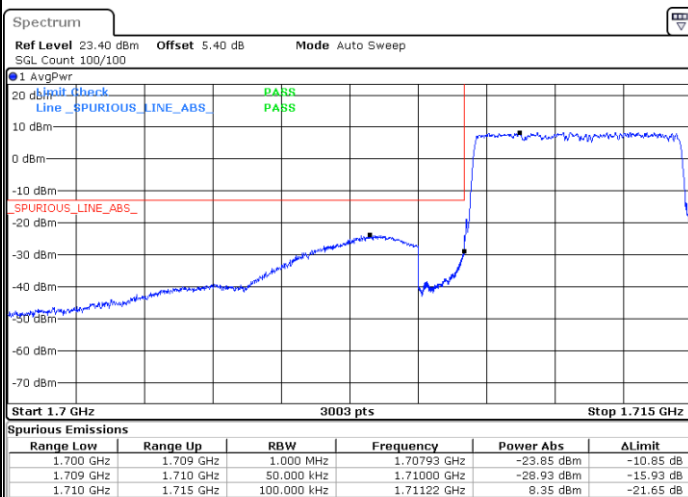
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

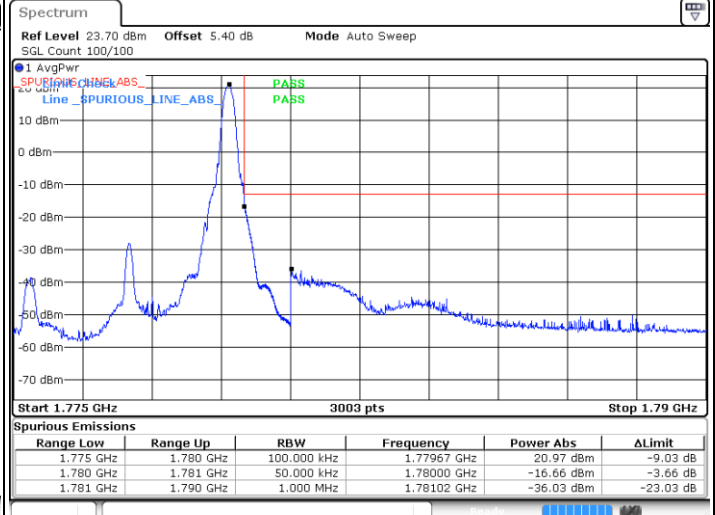
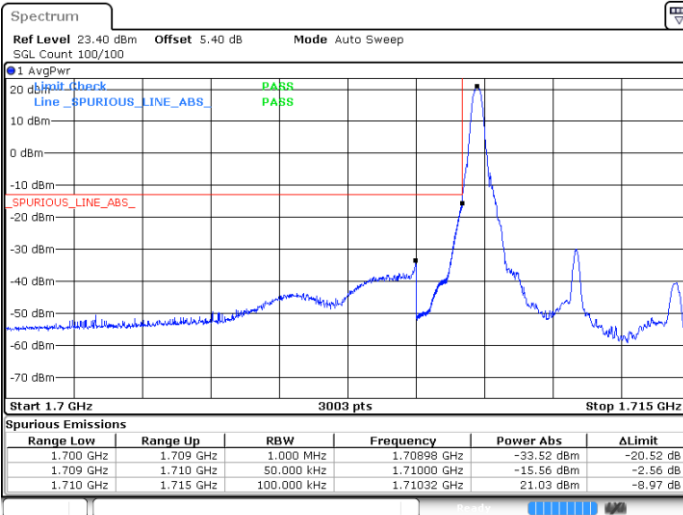




FR1 n66 / 5MHz / DFT-S OFDM / QPSK

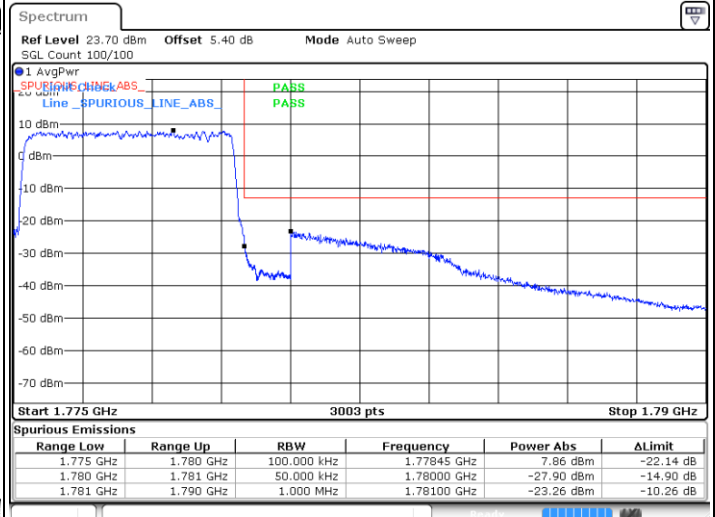
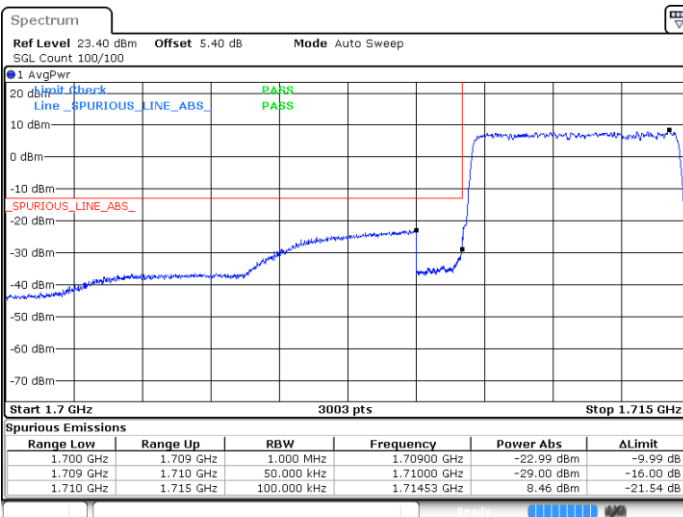
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

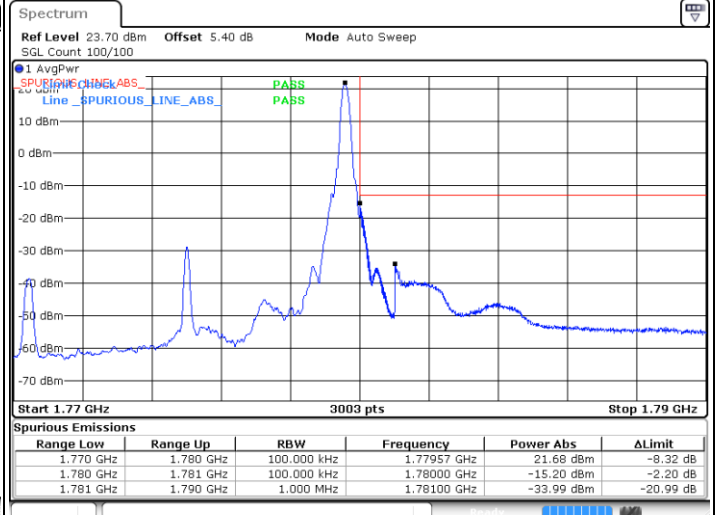
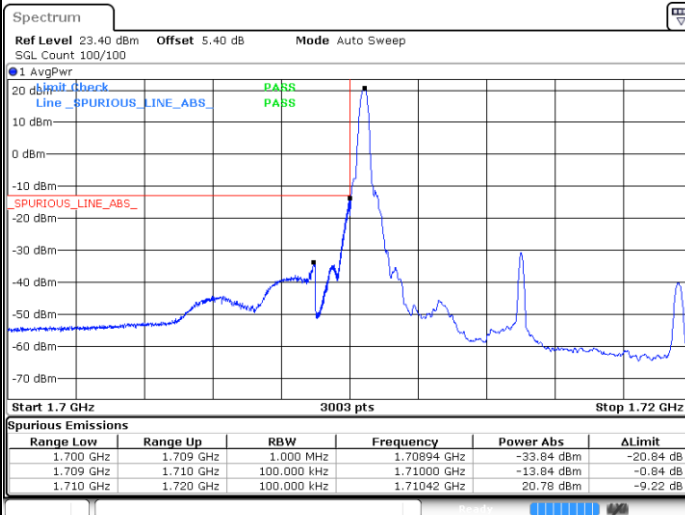




FR1 n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK

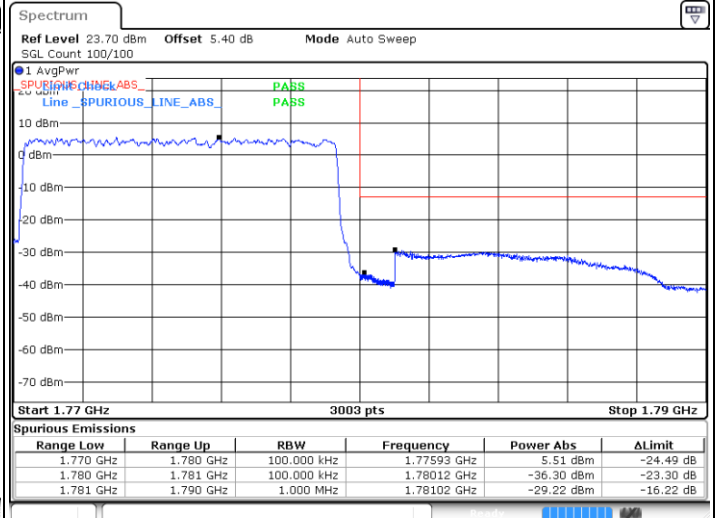
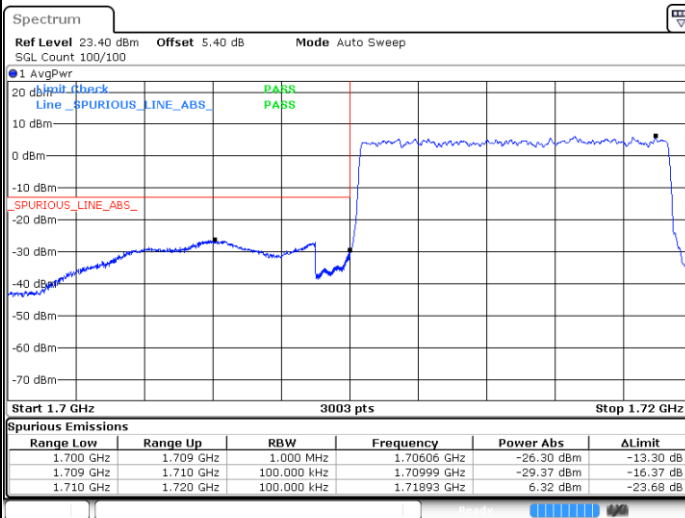
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

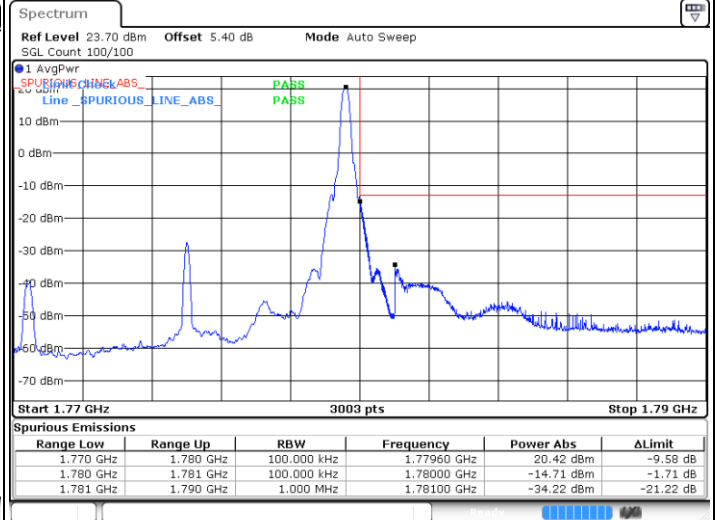
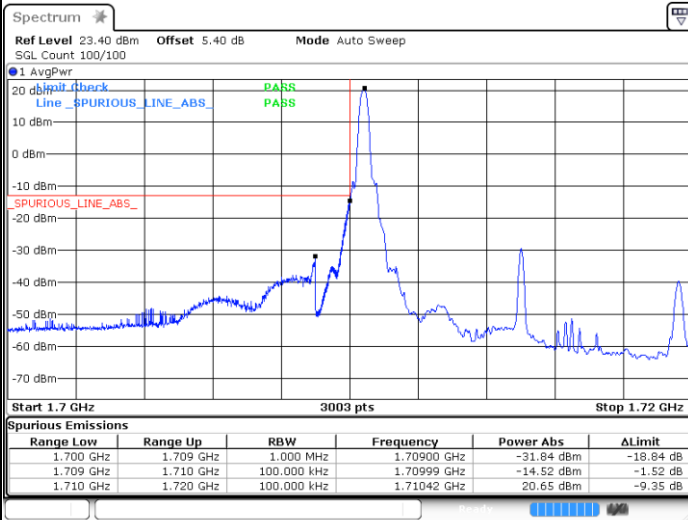




FR1 n66 / 10MHz / DFT-s-OFDM / QPSK

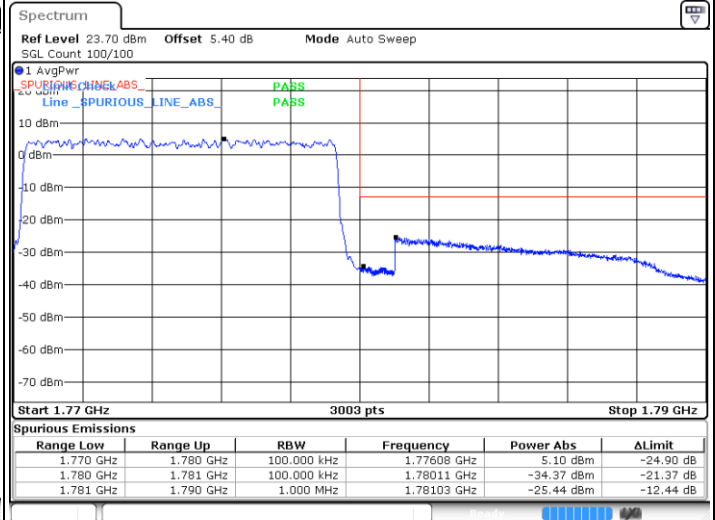
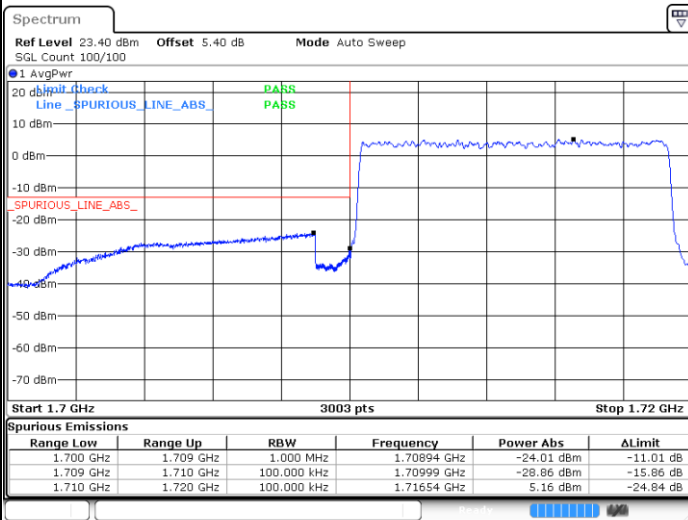
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

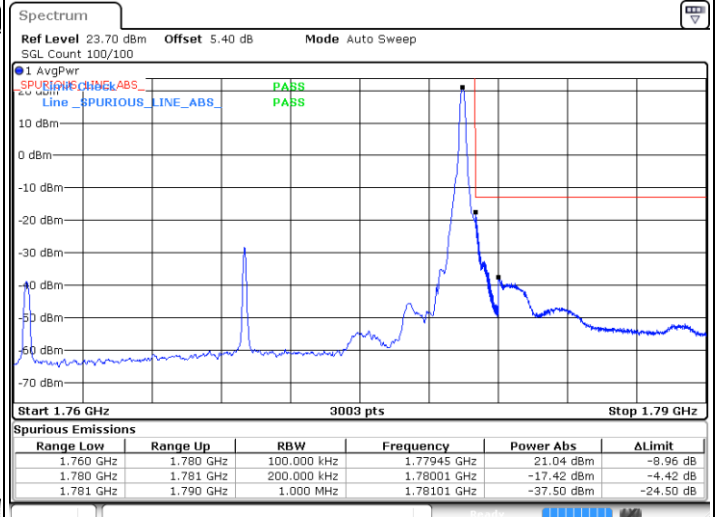
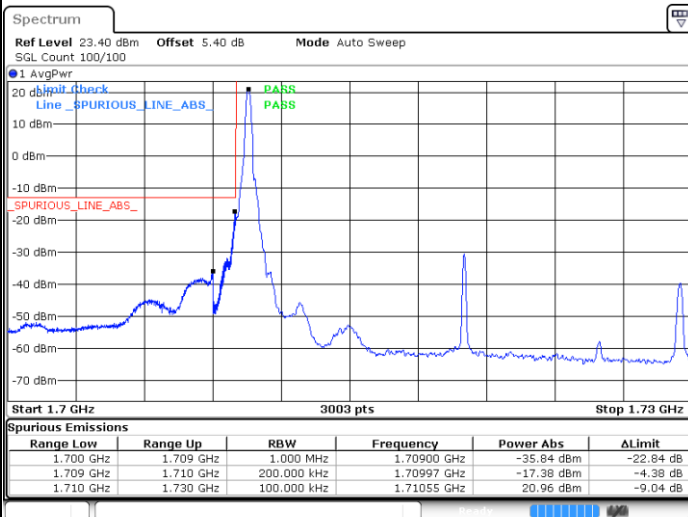




FR1 n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

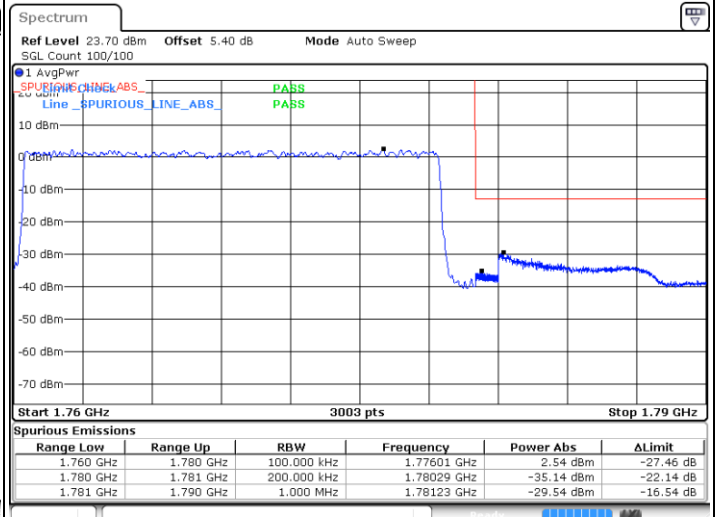
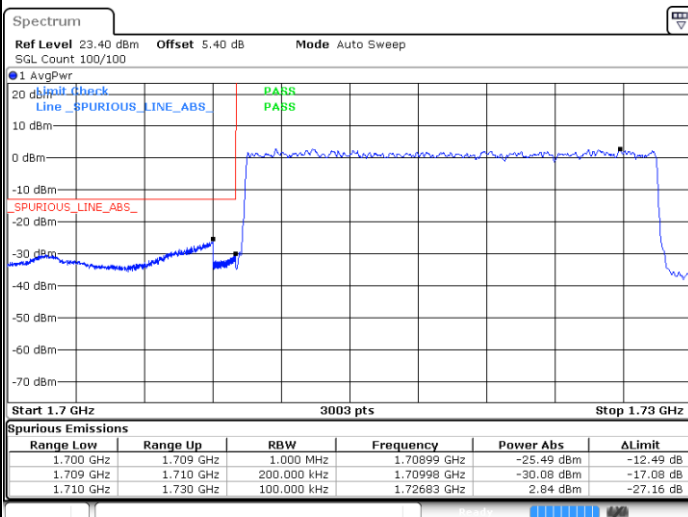
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

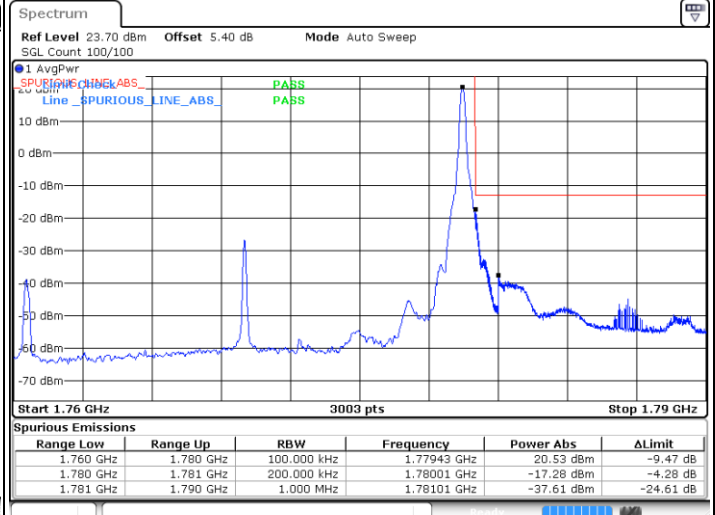




FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

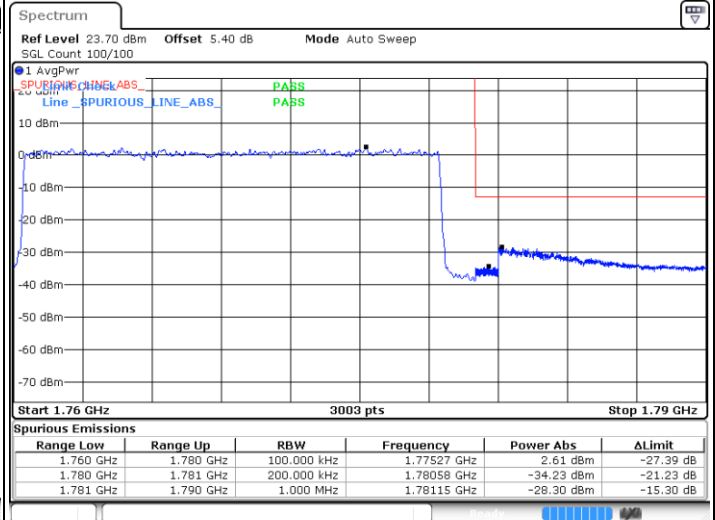
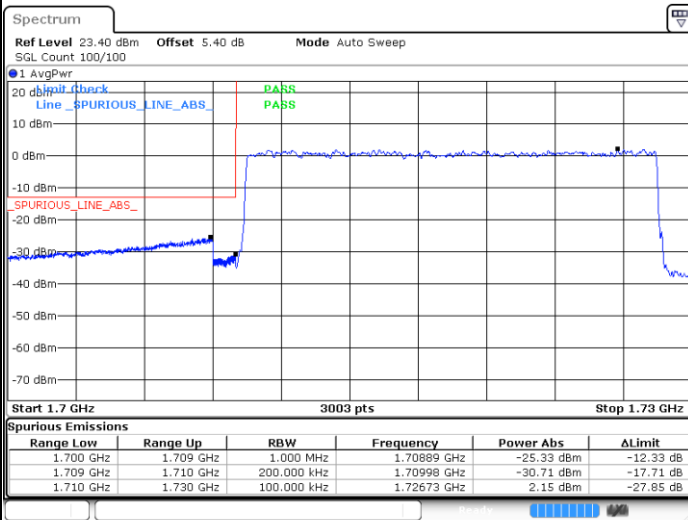
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB



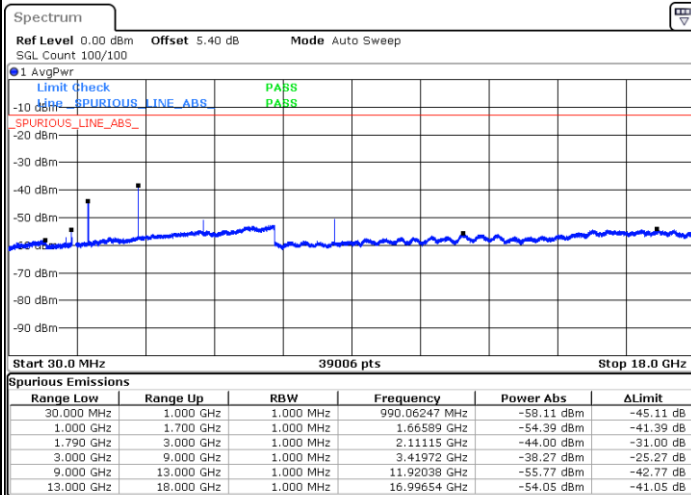


Conducted Spurious Emission

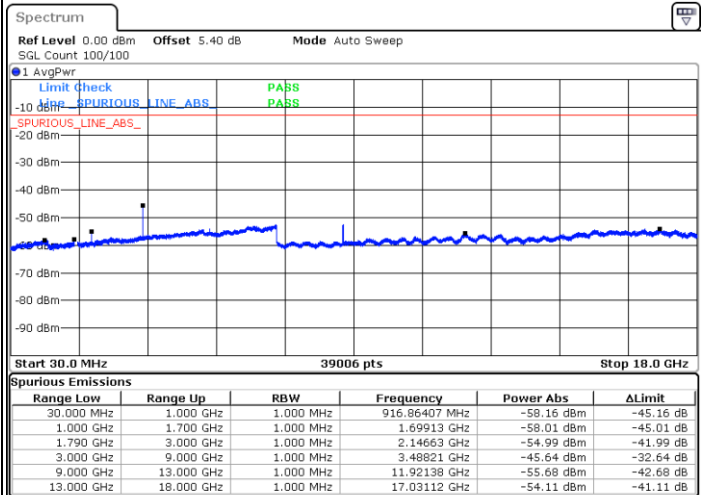
FR1 n66 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

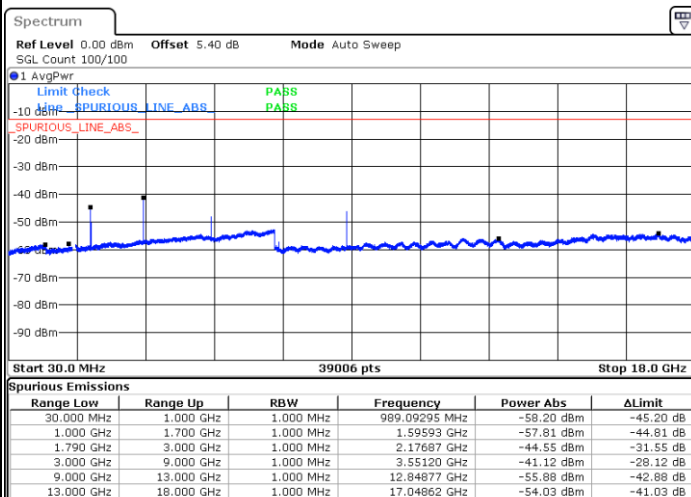


Date: 17 JUN 2022 23:15:10



Date: 17 JUN 2022 23:41:28

Highest Channel / 1RB1

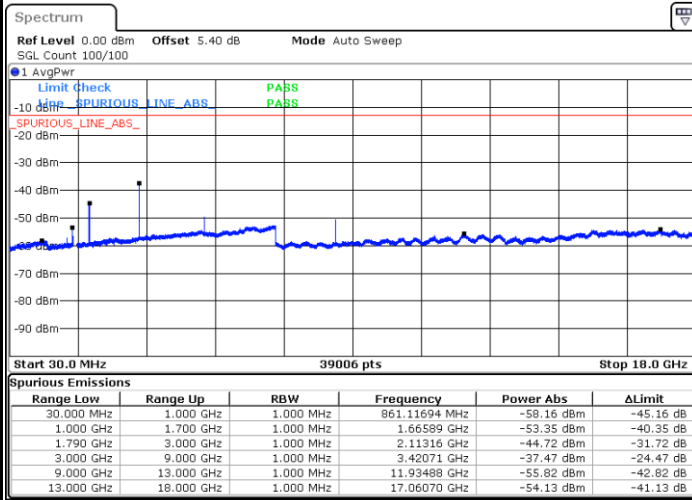


Date: 18 JUN 2022 00:18:29



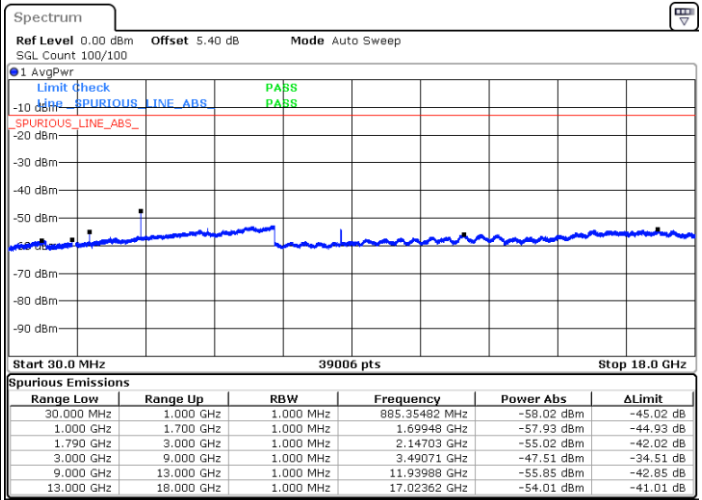
FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



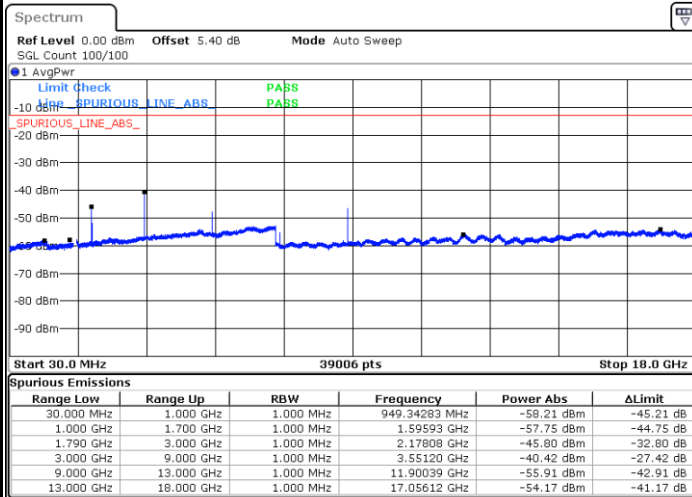
Date: 17 JUN 2022 23:27:28

Middle Channel / 1RB1



Date: 17 JUN 2022 23:53:44

Highest Channel / 1RB1

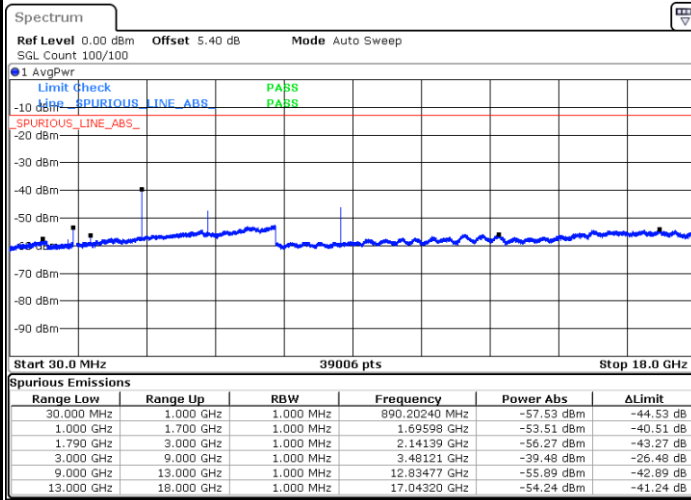


Date: 18 JUN 2022 00:20:39



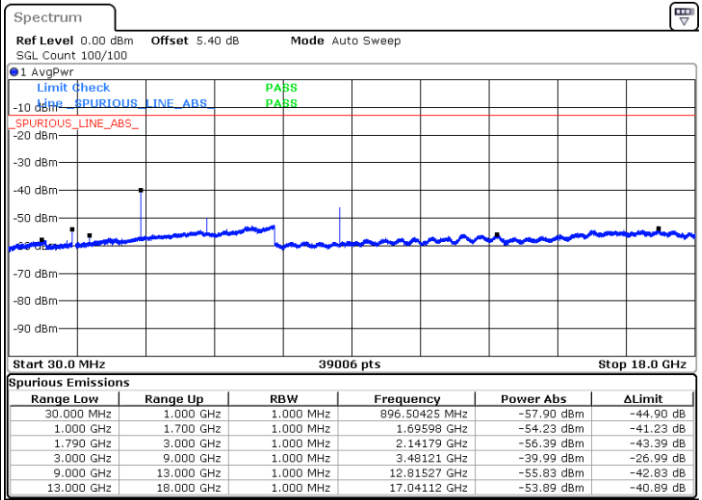
FR1 n66 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



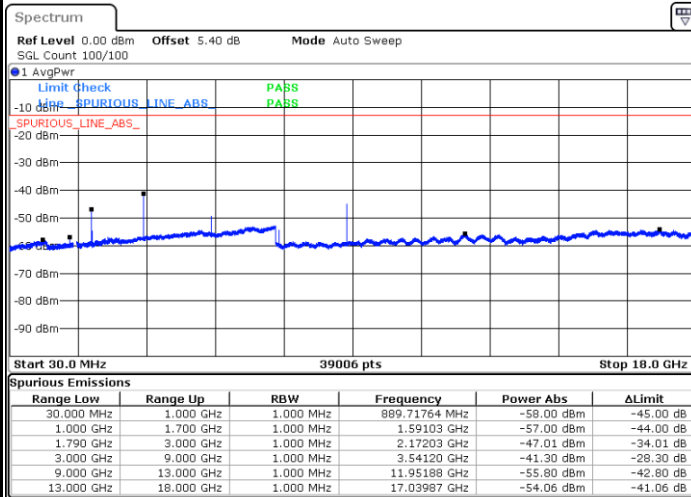
Date: 18 JUN 2022 00:40:32

Middle Channel / 1RB1



Date: 18 JUN 2022 00:35:32

Highest Channel / 1RB1

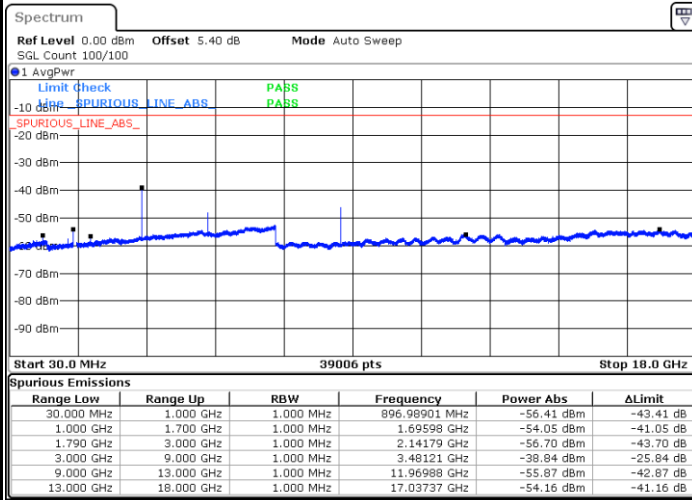


Date: 18 JUN 2022 00:42:09



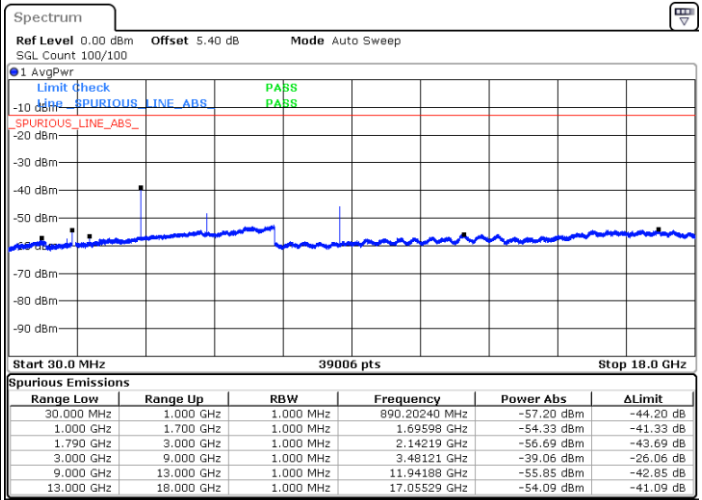
FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



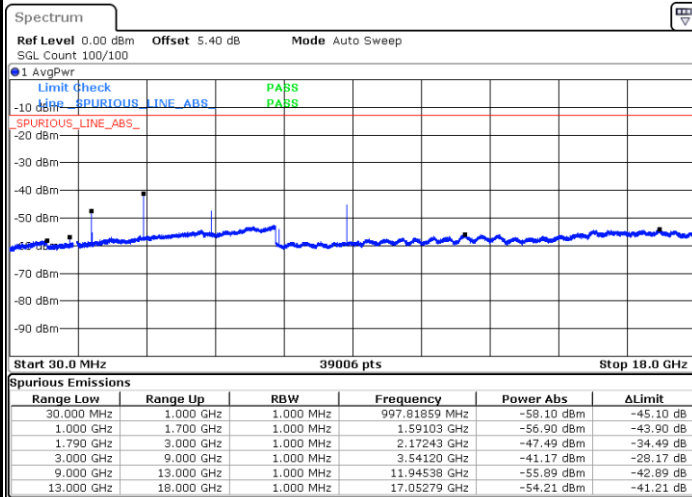
Date: 18 JUN 2022 00:39:47

Middle Channel / 1RB1



Date: 18 JUN 2022 00:37:06

Highest Channel / 1RB1

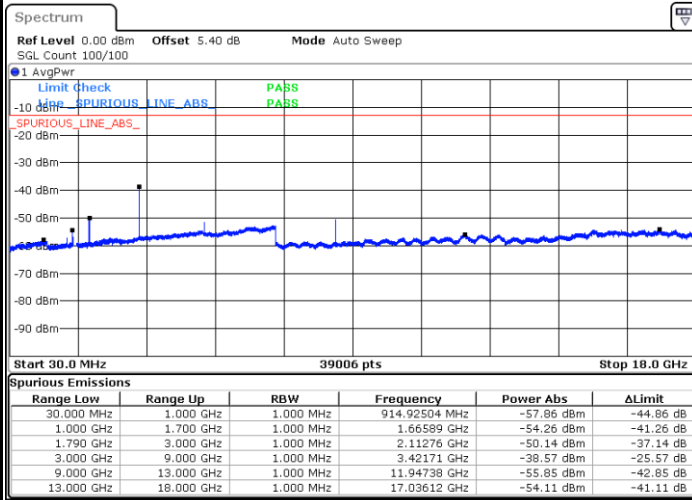


Date: 18 JUN 2022 00:43:15



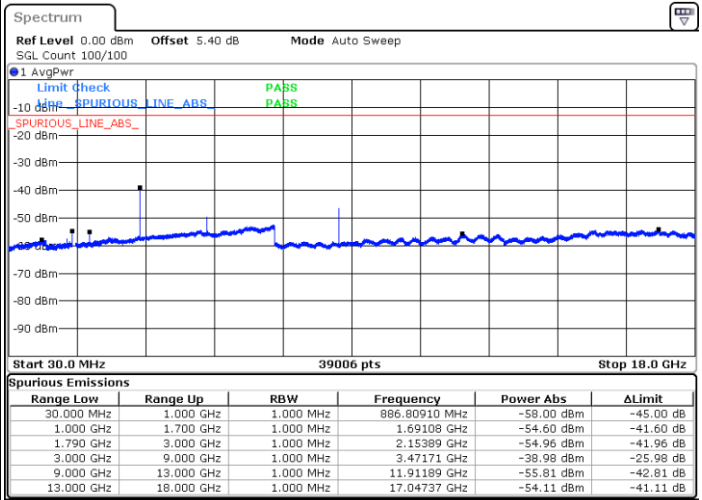
FR1 n66 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



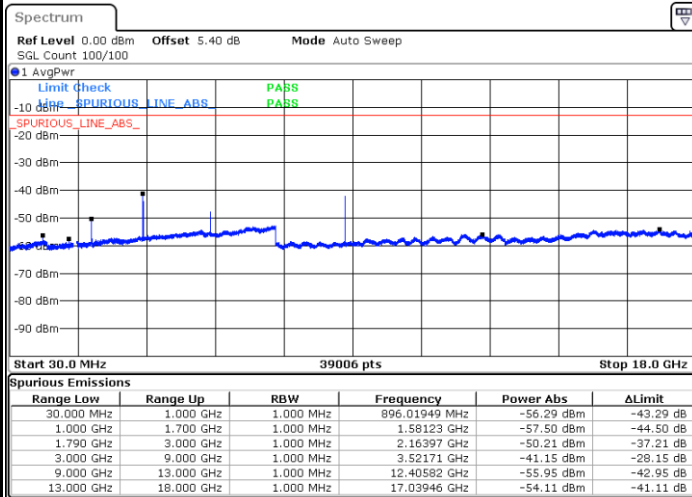
Date: 18 JUN 2022 02:16:53

Middle Channel / 1RB1



Date: 18 JUN 2022 02:24:00

Highest Channel / 1RB1

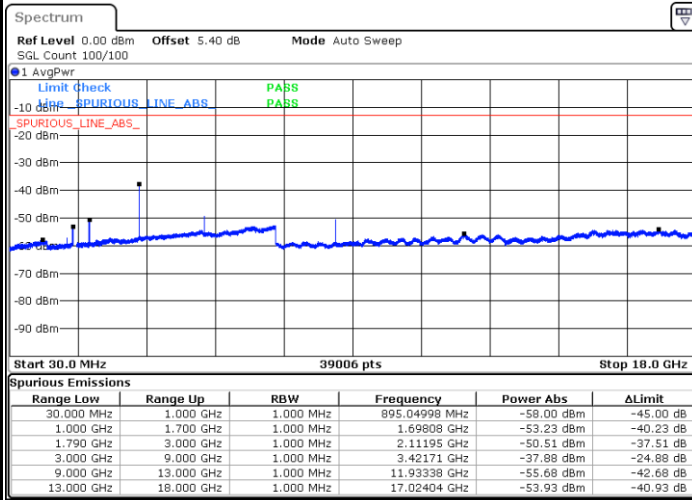


Date: 18 JUN 2022 02:34:57



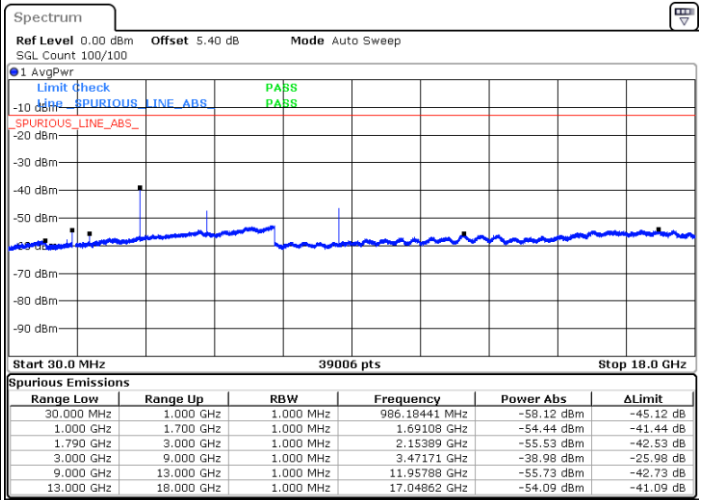
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



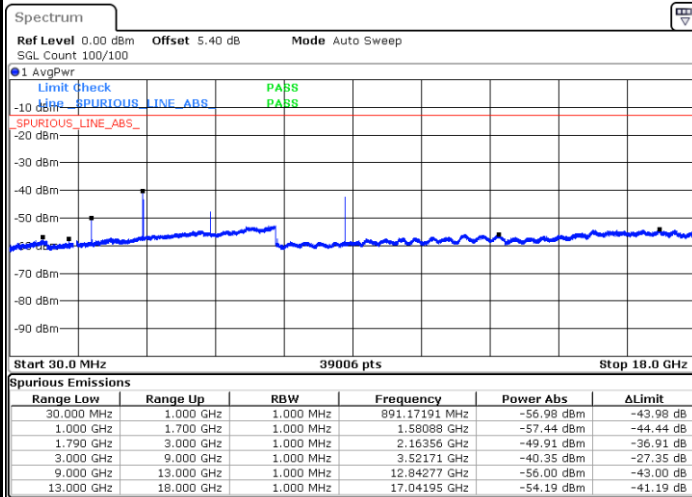
Date: 18 JUN 2022 02:19:06

Middle Channel / 1RB1



Date: 18 JUN 2022 02:21:06

Highest Channel / 1RB1



Date: 18 JUN 2022 02:36:36

Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

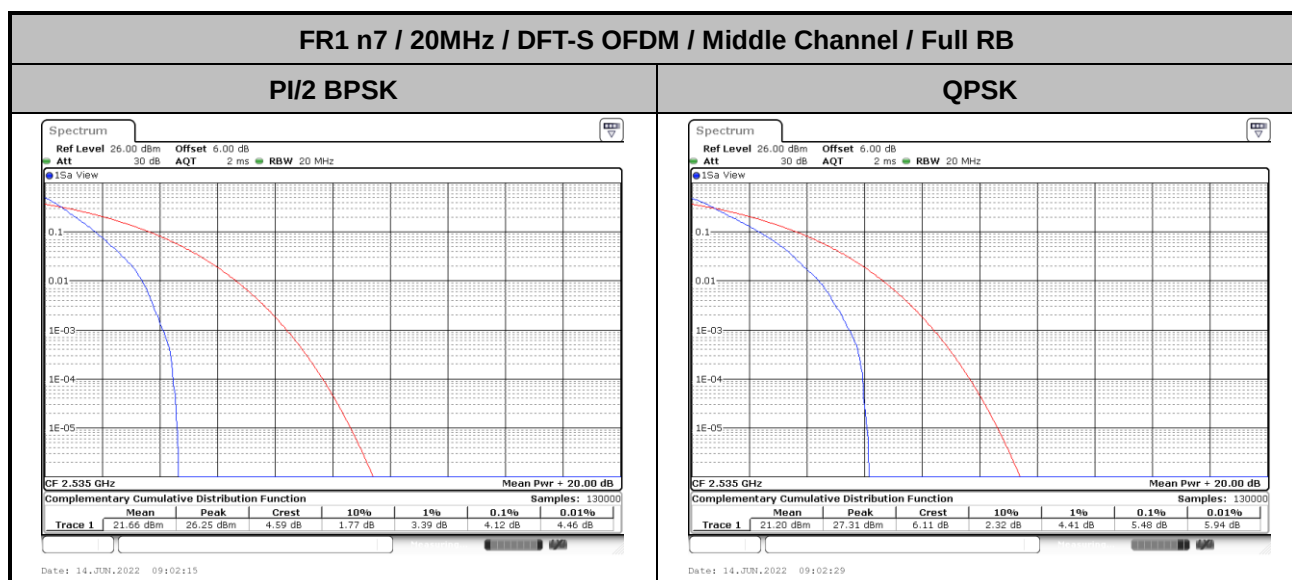


Other PA

FR1 5A_n7

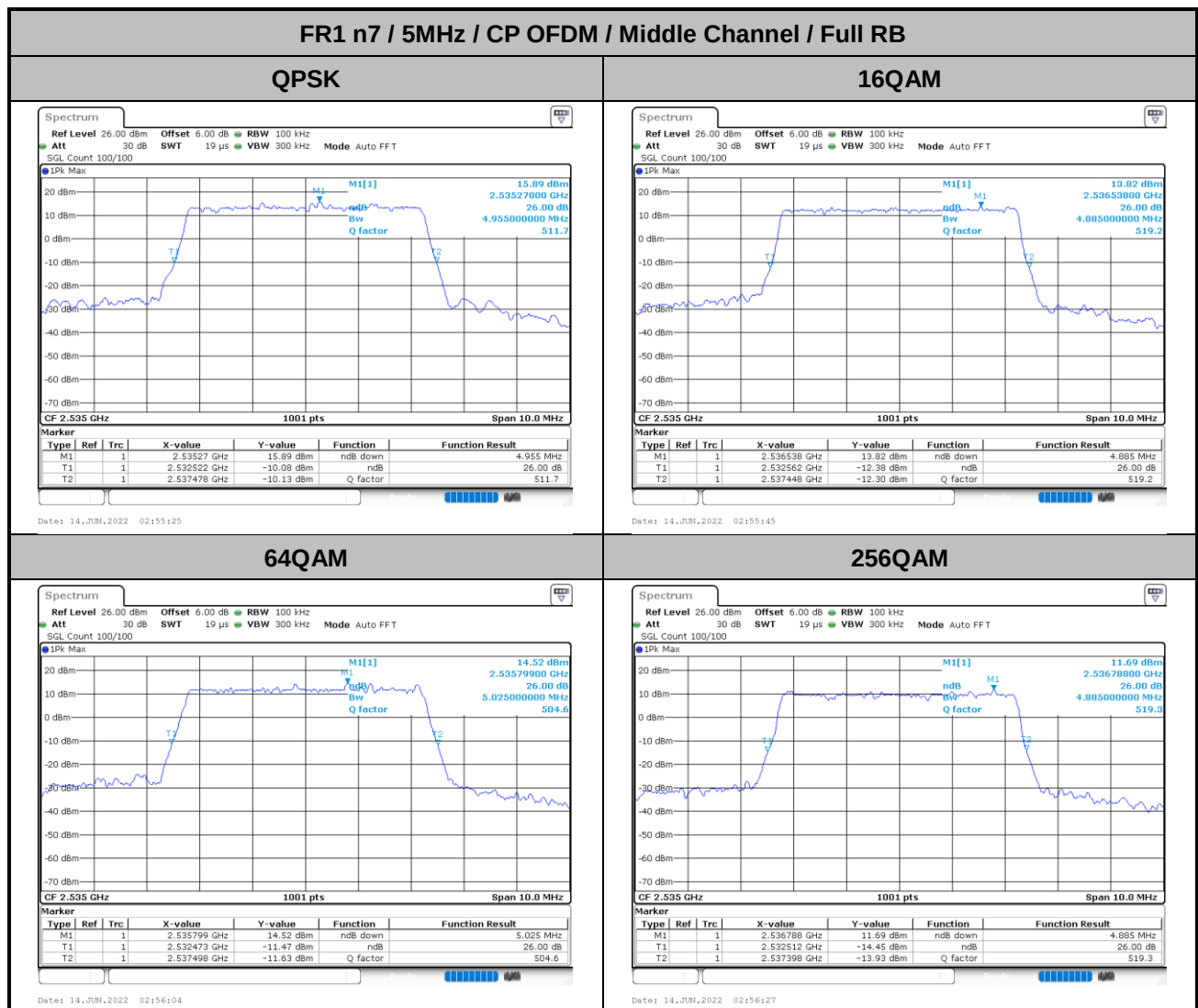
Peak-to-Average Ratio

Mode	FR1 n7 / 20MHz / DFT-S OFDM					
Mod.	PI/2 BPSK	QPSK				Limit: 13dB
RB Size	Full RB	Full RB				Result
Middle CH	4.12	5.48				PASS



**26dB Bandwidth**

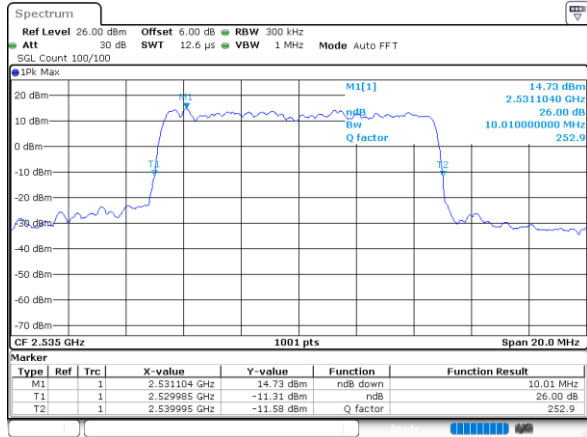
Mode	FR1 n7 : 26dBW (MHz) / CP OFDM									
BW	5M					10M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		4.96	4.89	5.03	4.89		10.01	10.13	10.01	10.13
BW	15M					20M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		14.99	14.84	15.02	14.99		21.22	21.26	21.26	21.18



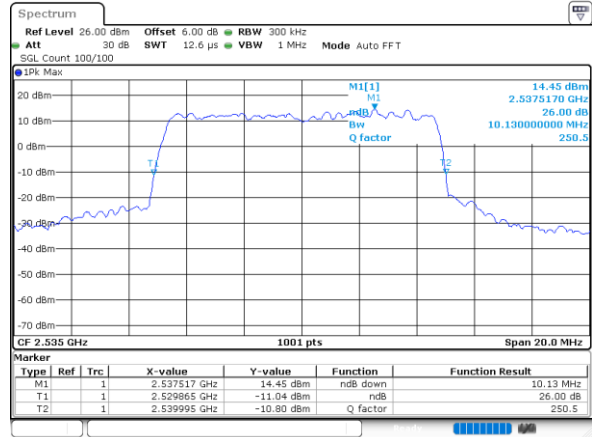


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

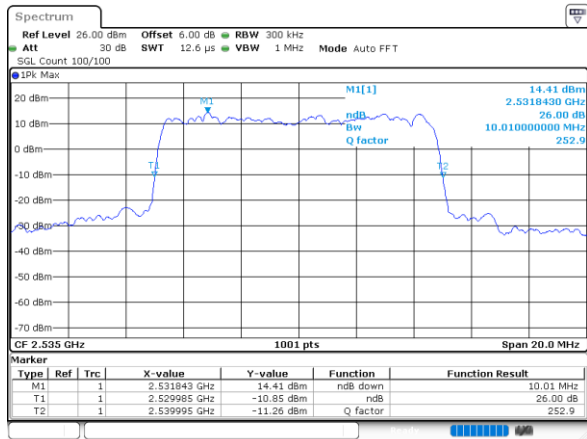
QPSK



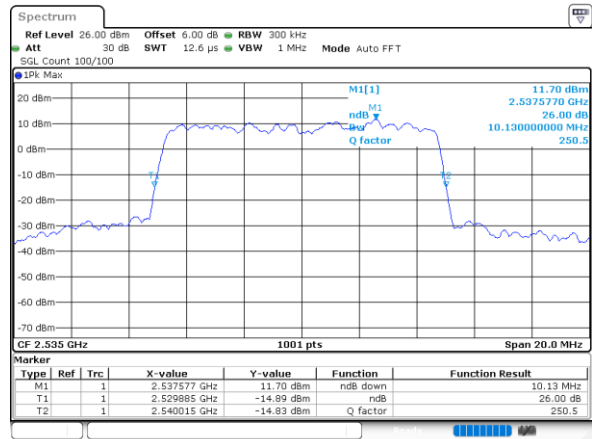
16QAM



64QAM



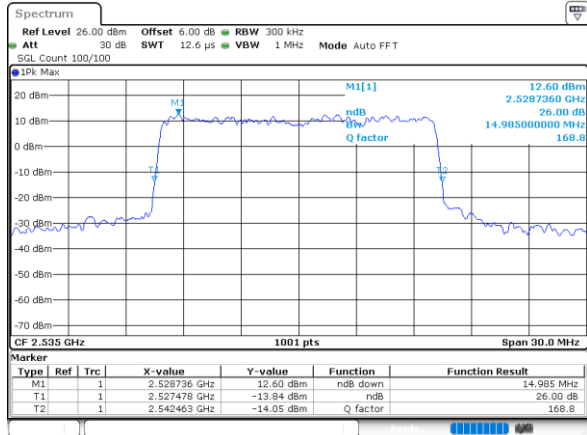
256QAM



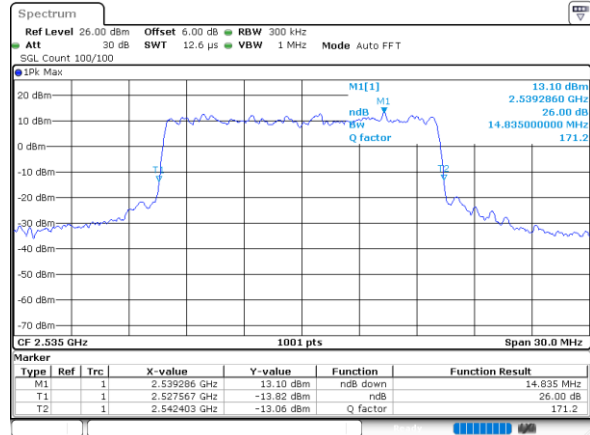


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

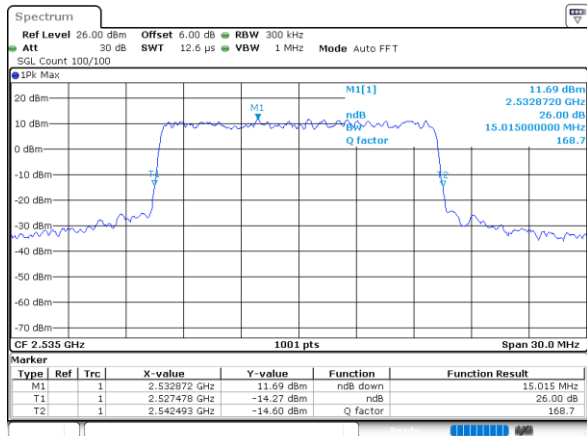
QPSK



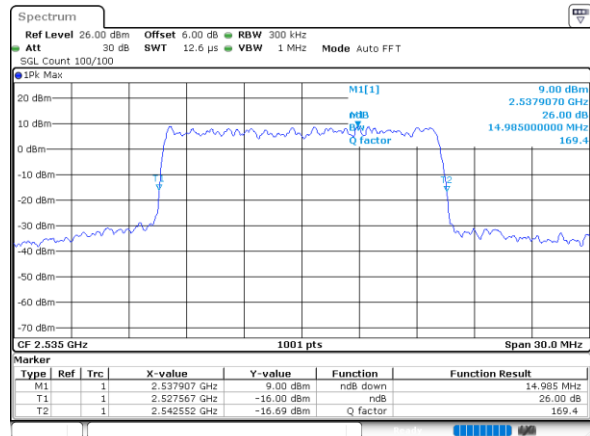
16QAM



64QAM



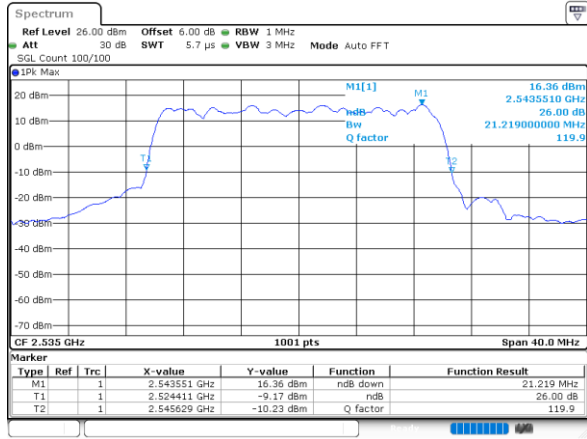
256QAM



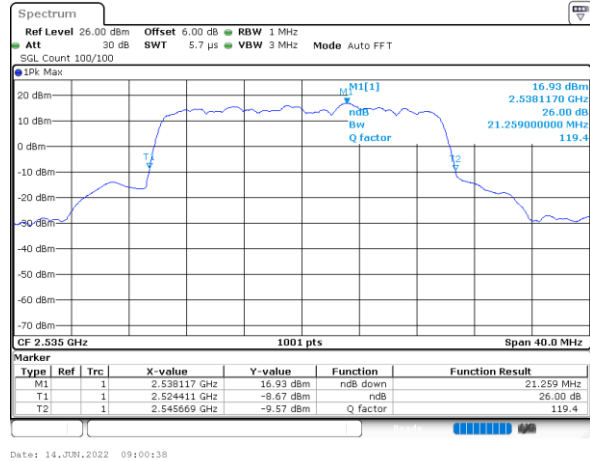


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

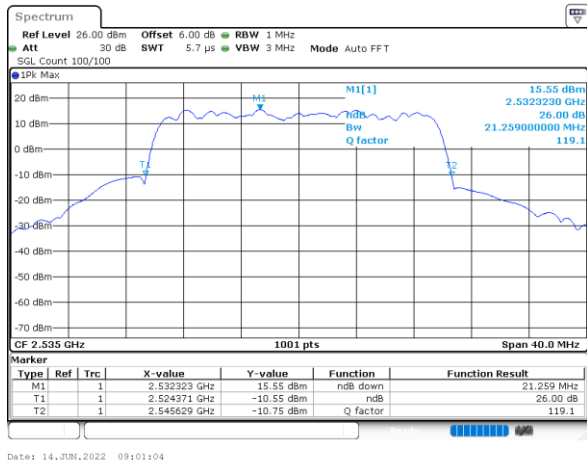
QPSK



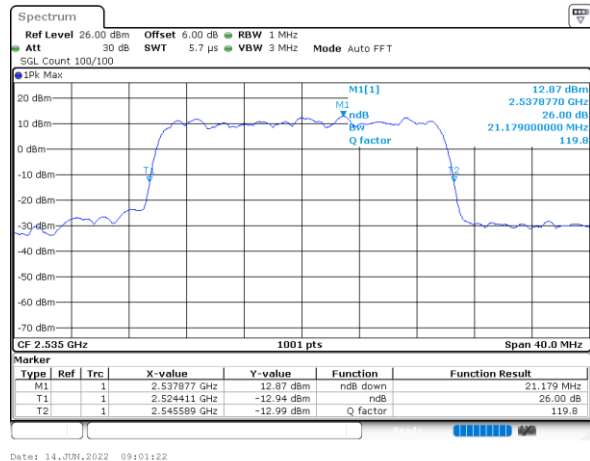
16QAM



64QAM



256QAM





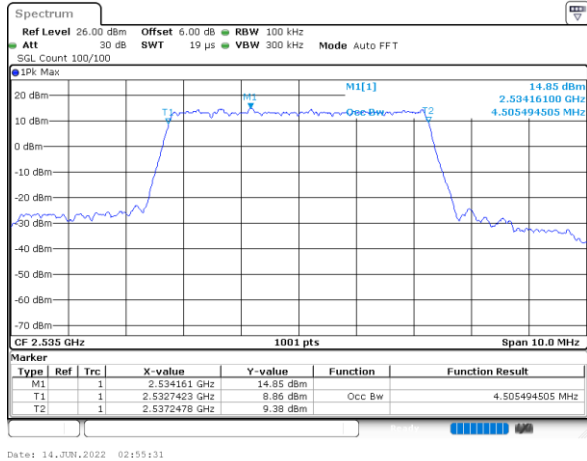
Occupied Bandwidth

Mode	FR1 n5 : OB (MHz) / CP OFDM									
BW	5M					10M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		4.51	4.50	4.50	4.48		9.37	9.39	9.35	9.41
BW	15M					20M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		14.18	14.15	14.09	14.21		19.38	19.46	19.38	19.50

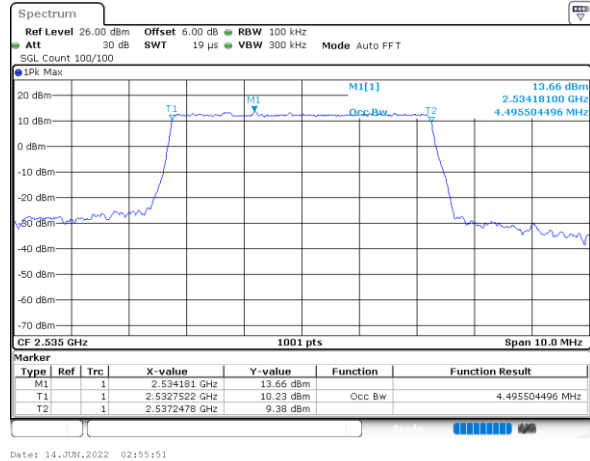


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

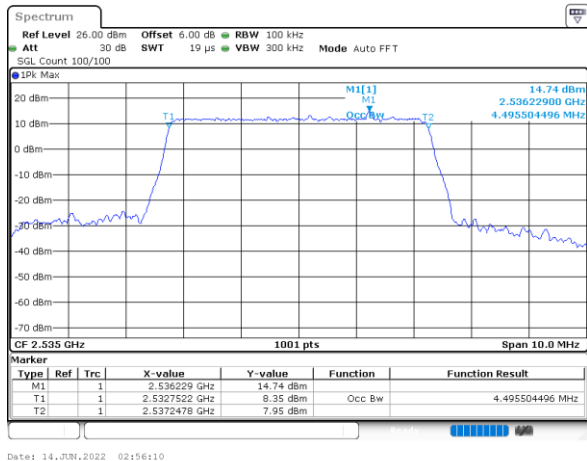
QPSK



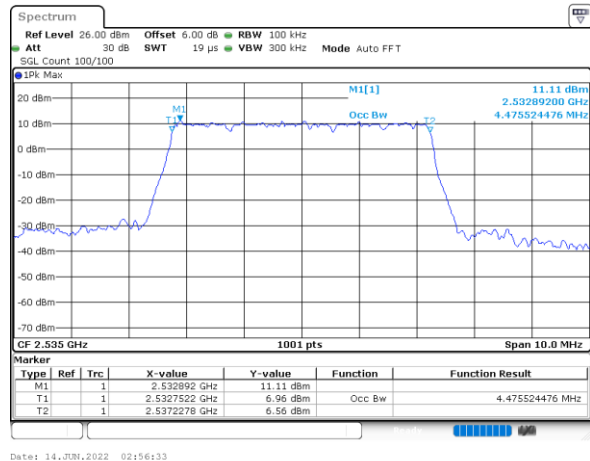
16QAM



64QAM



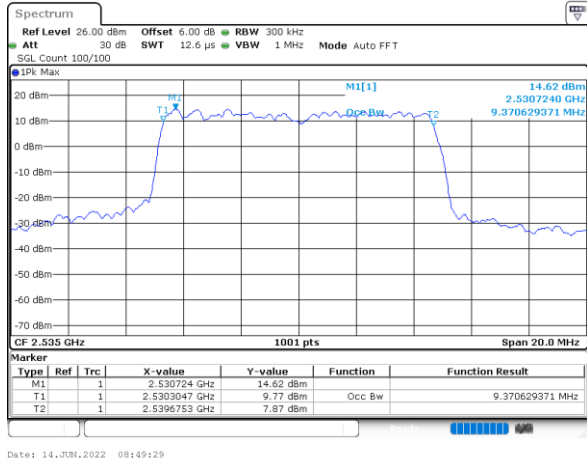
256QAM



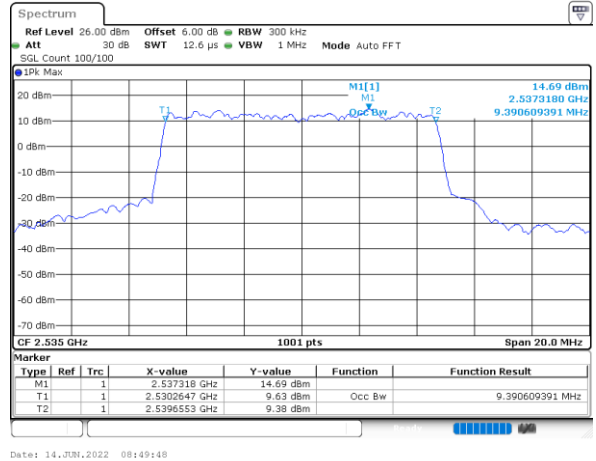


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

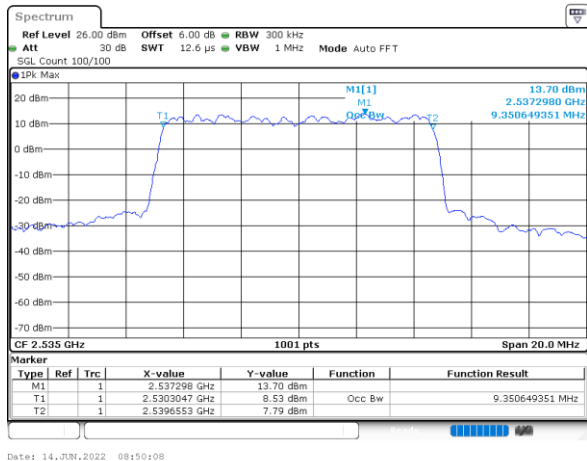
QPSK



16QAM



64QAM



256QAM

