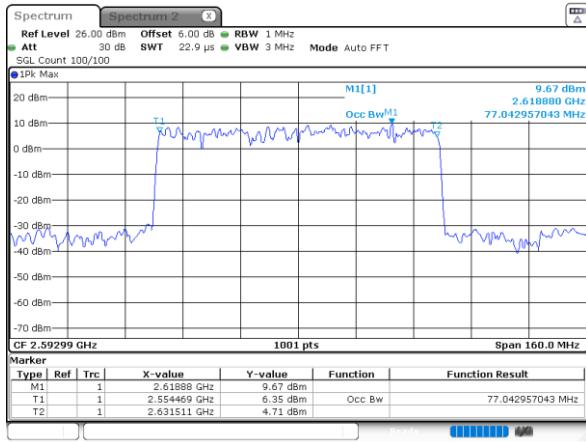




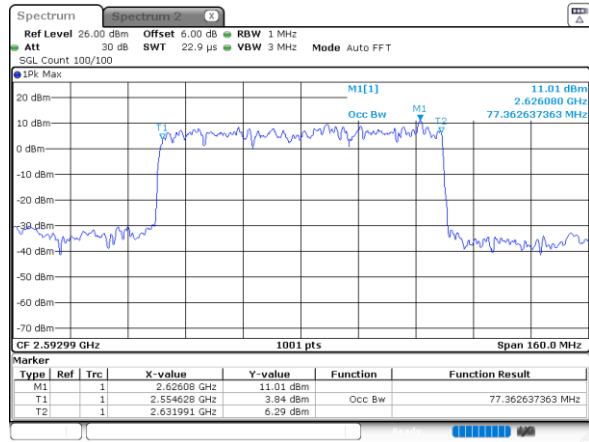
80MHz CP

QPSK



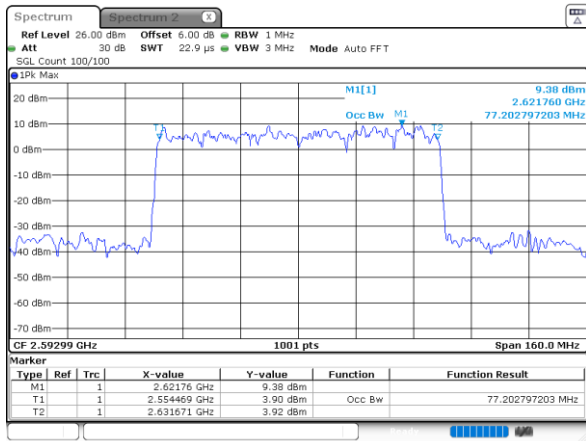
Date: 12.NOV.2022 09:19:19

16QAM



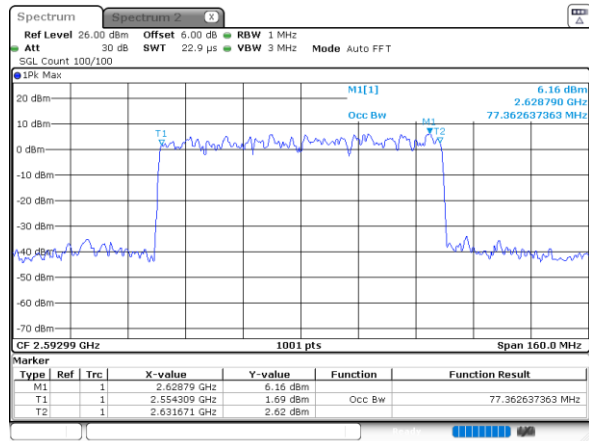
Date: 12.NOV.2022 09:18:56

64QAM



Date: 12.NOV.2022 09:18:38

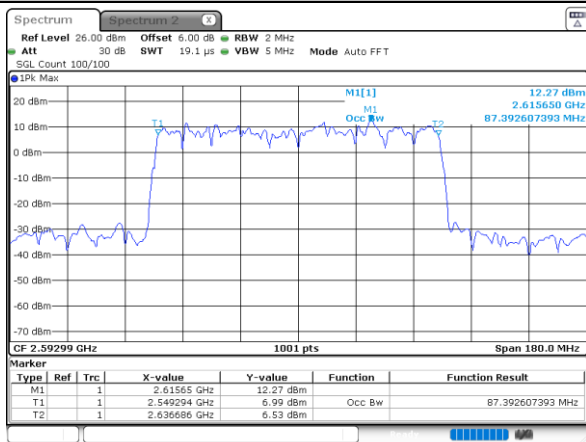
256QAM



Date: 12.NOV.2022 09:18:19

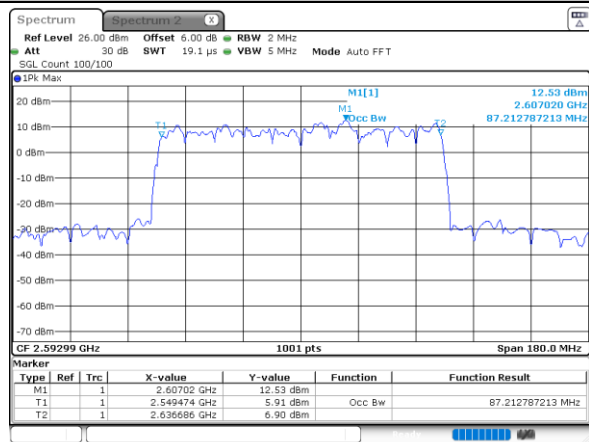
90MHz CP

QPSK



Date: 12.NOV.2022 09:16:36

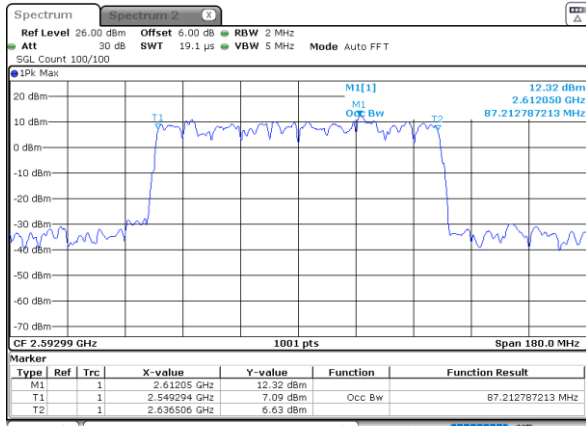
16QAM



Date: 12.NOV.2022 09:16:56

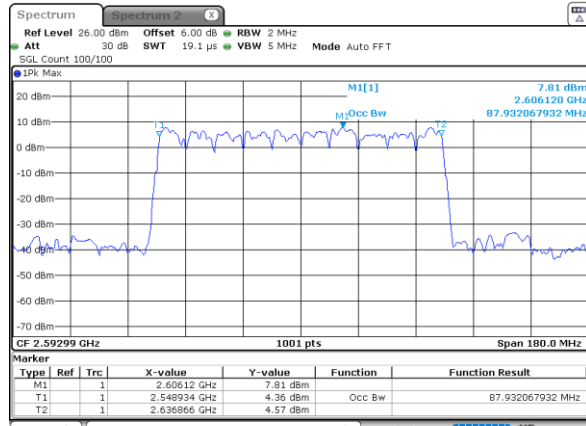


64QAM



Date: 12.NOV.2022 09:17:24

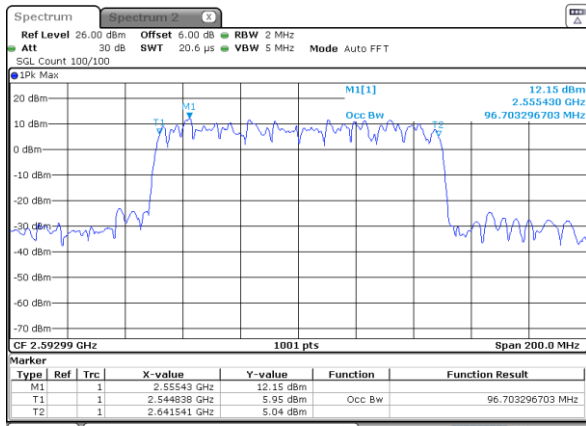
256QAM



Date: 12.NOV.2022 09:17:54

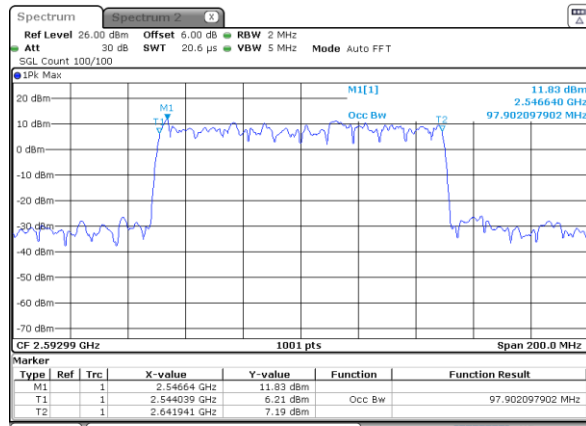
100MHz CP

QPSK



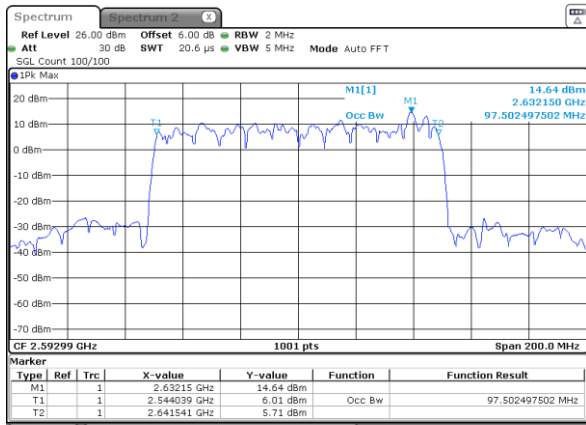
Date: 12.NOV.2022 08:46:29

16QAM



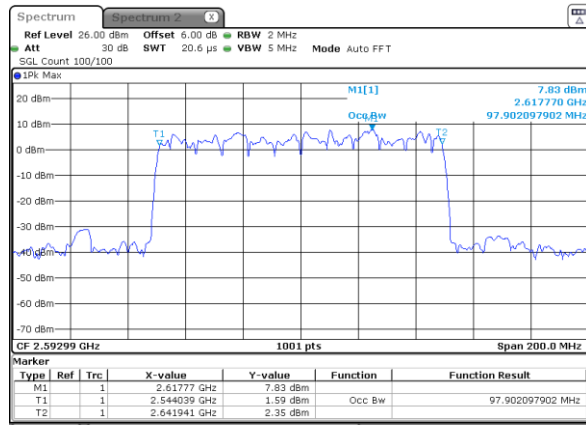
Date: 12.NOV.2022 08:46:54

64QAM



Date: 12.NOV.2022 08:47:20

256QAM



Date: 12.NOV.2022 08:47:51

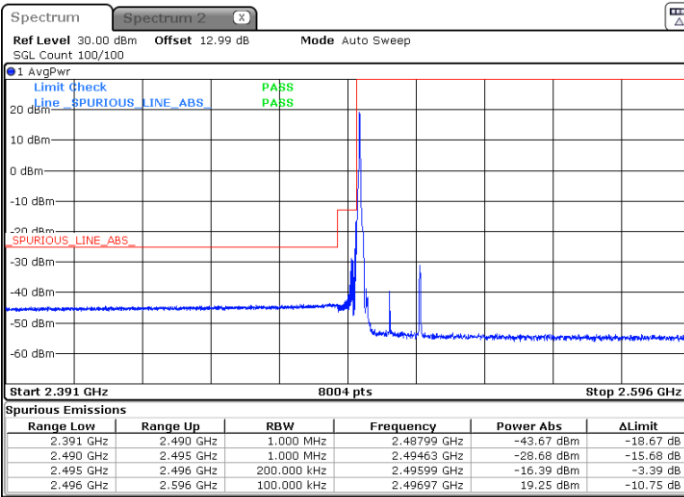


# Conducted Band Edge

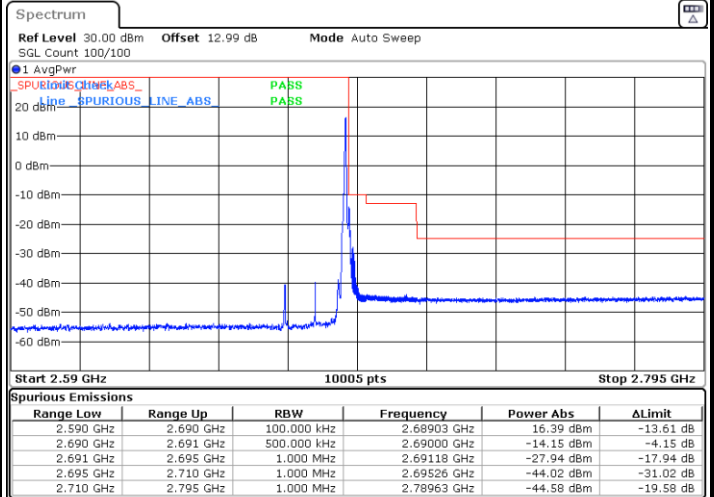
FR1 n41 / 20MHz / DFT OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



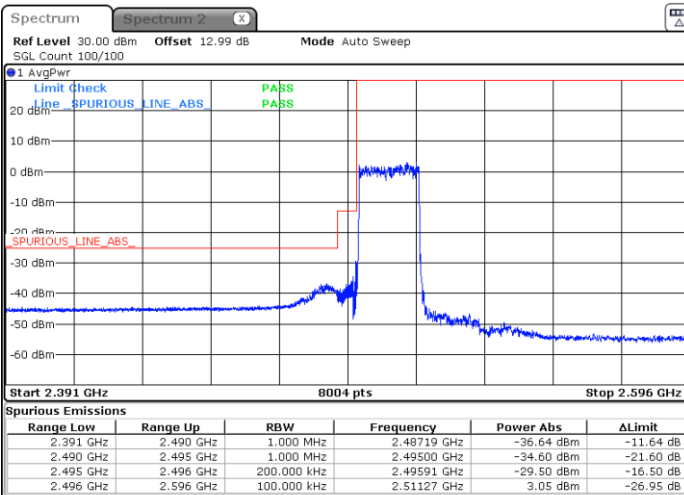
Date: 12.NOV.2022 10:36:14



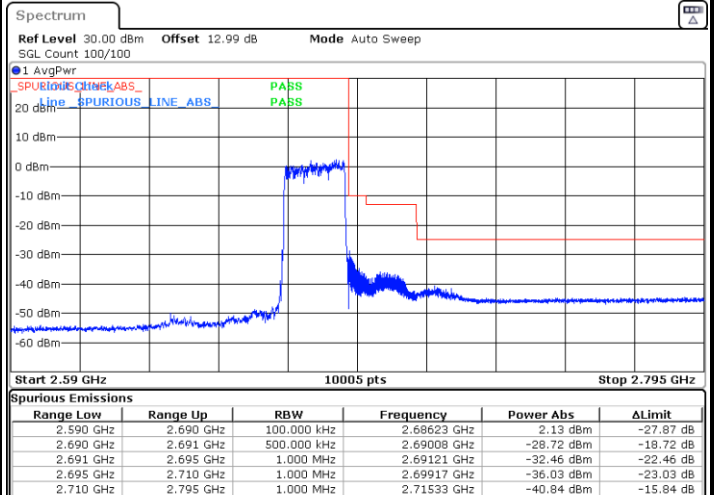
Date: 16.DEC.2022 07:18:19

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.NOV.2022 10:38:54



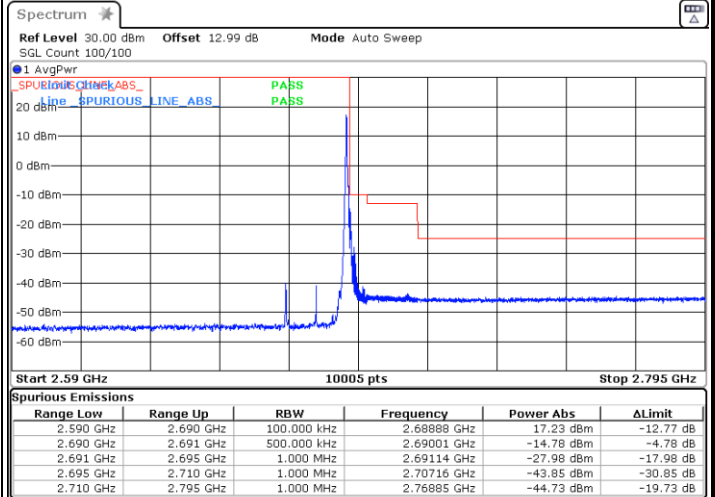
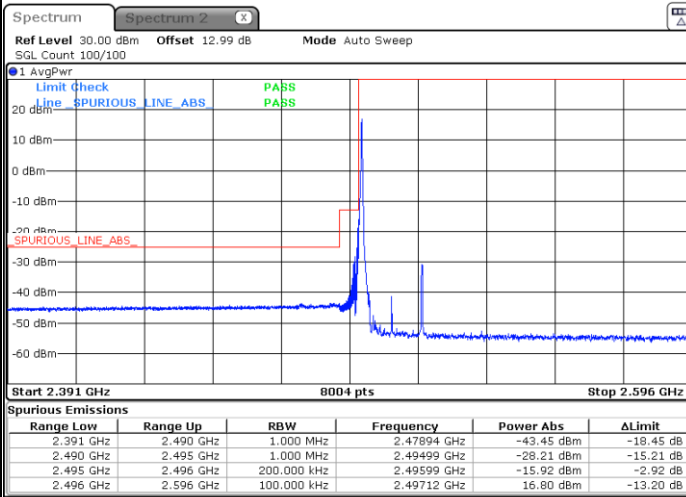
Date: 16.DEC.2022 07:17:38



FR1 n41 / 20MHz / DFT OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

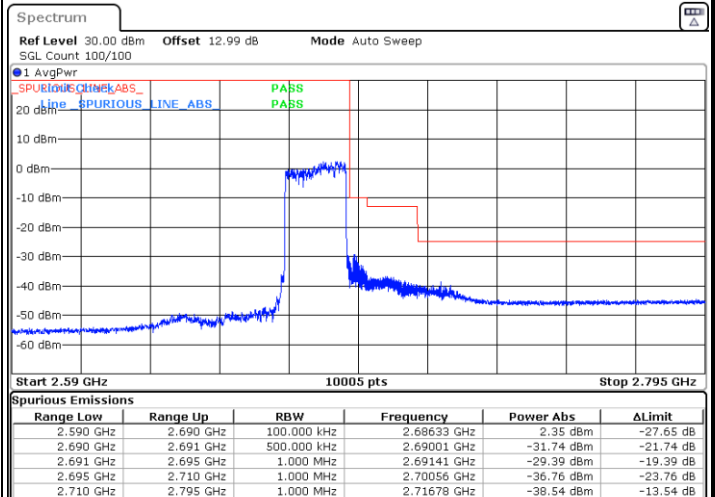
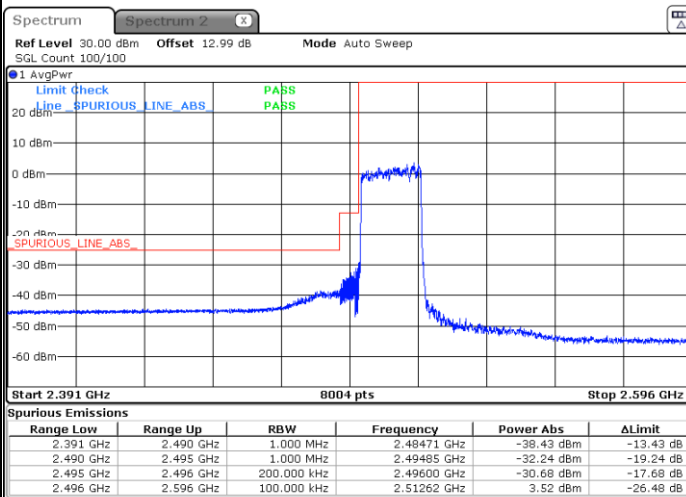


Date: 12.NOV.2022 10:38:20

Date: 16.DEC.2022 07:19:05

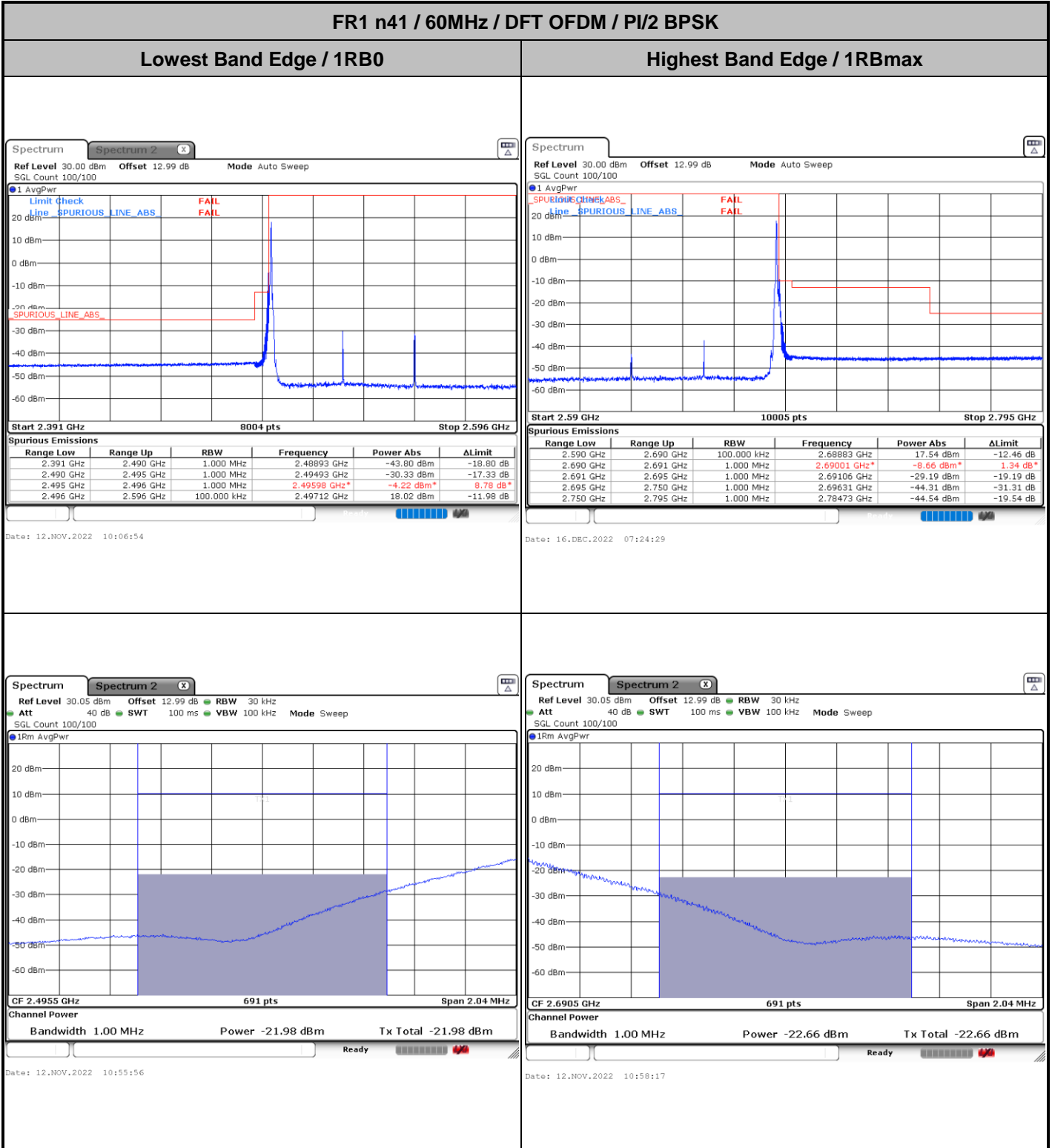
Lowest Band Edge / Full RB

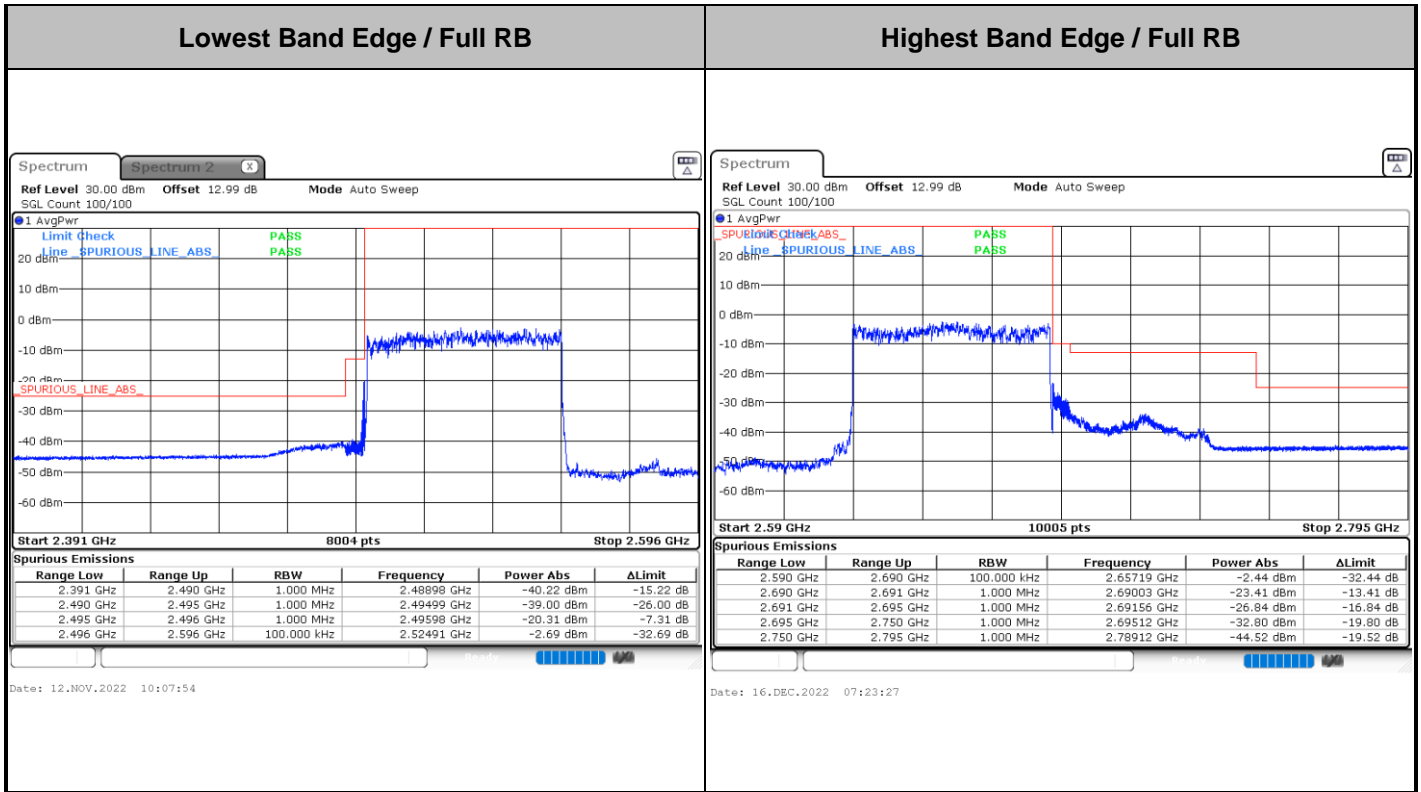
Highest Band Edge / Full RB



Date: 12.NOV.2022 10:38:38

Date: 16.DEC.2022 07:16:23



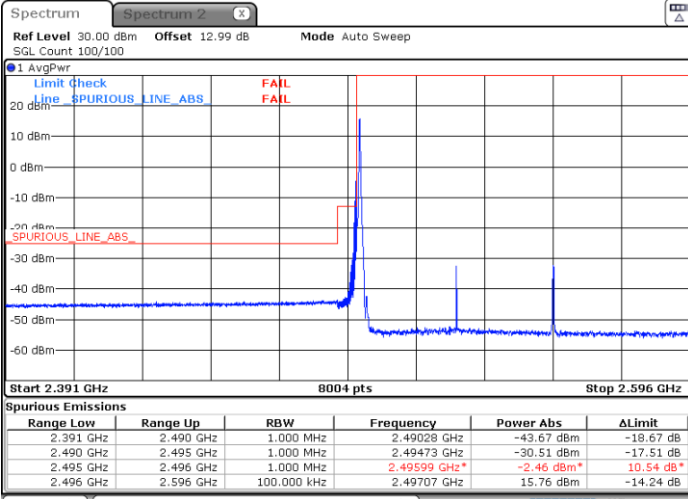




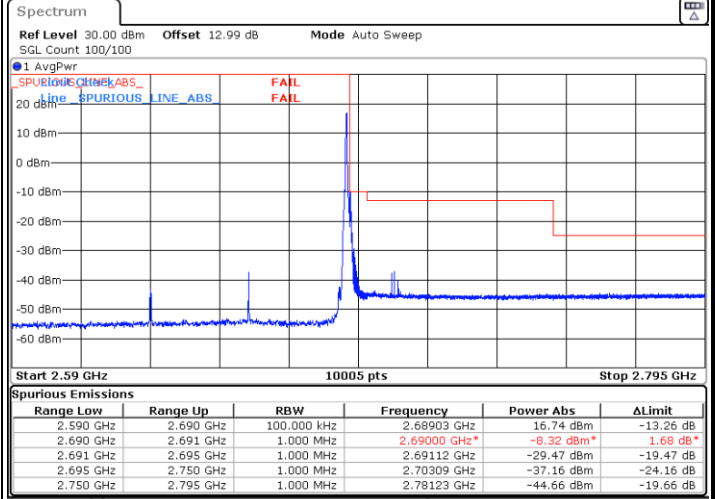
FR1 n41 / 60MHz / DFT OFDM / QPSK

Lowest Band Edge / 1RB0

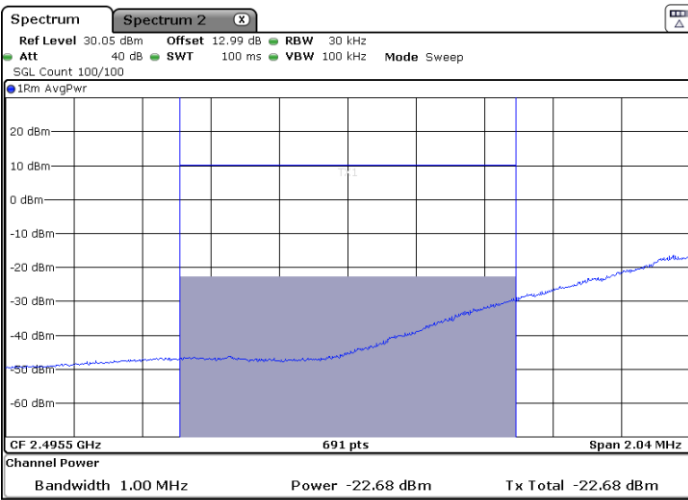
Highest Band Edge / 1RBmax



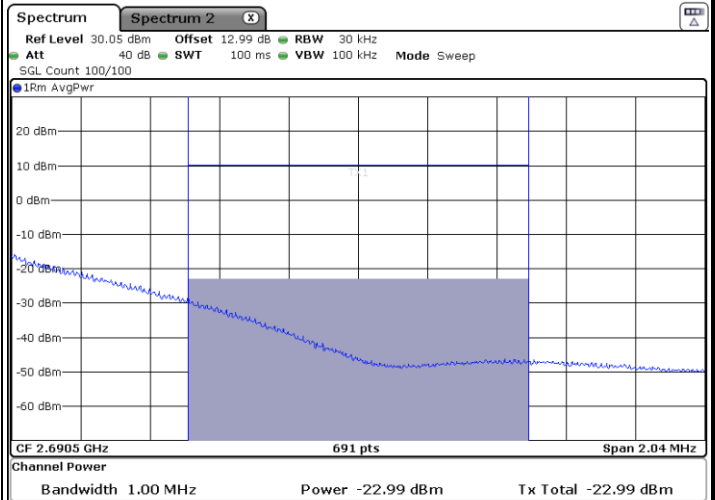
Date: 12.NOV.2022 10:06:34



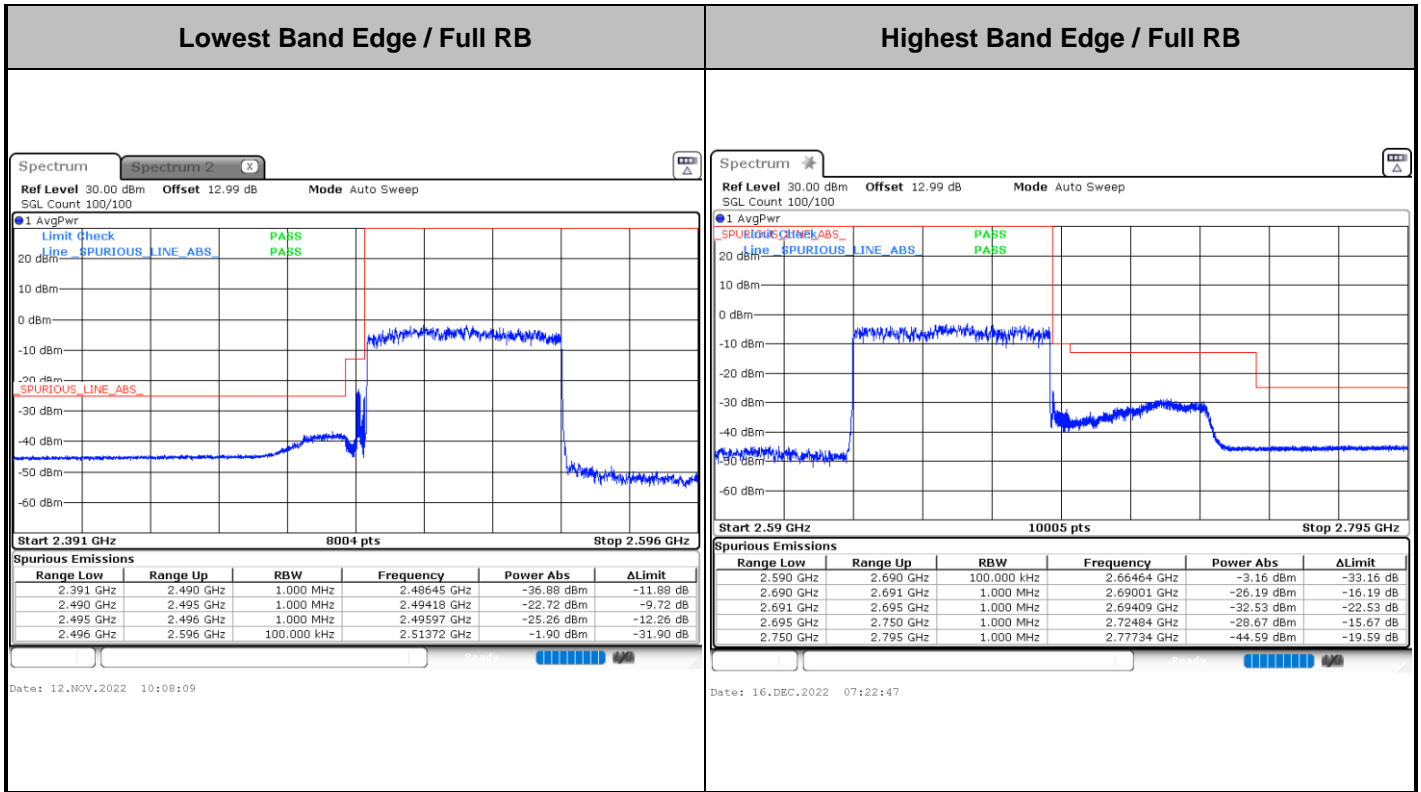
Date: 16.DEC.2022 07:25:01



Date: 12.NOV.2022 10:56:33



Date: 12.NOV.2022 10:57:50



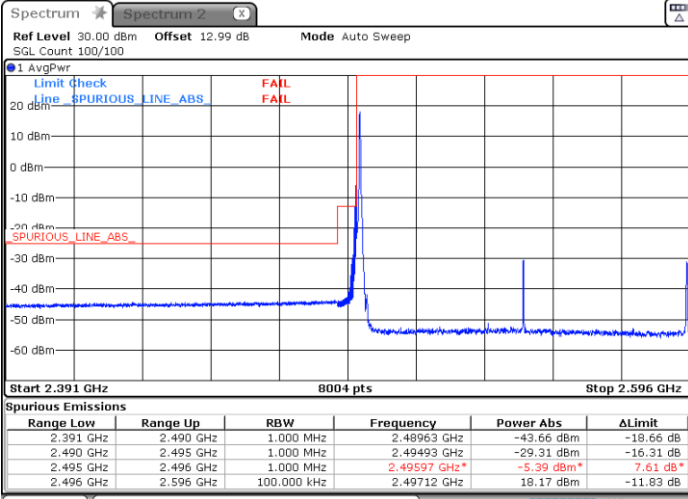




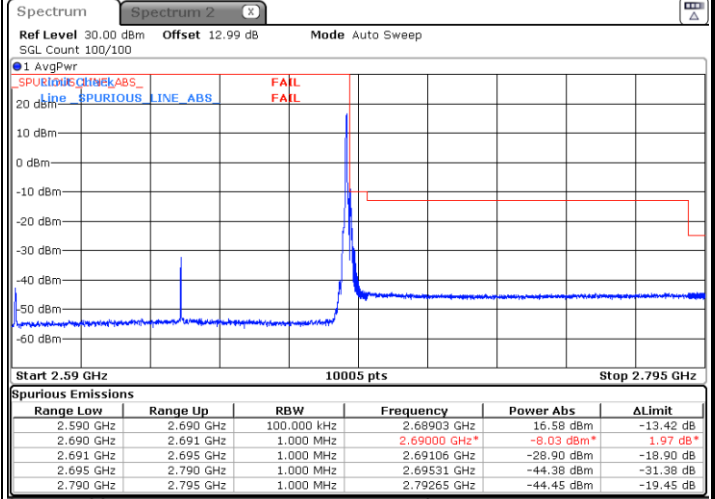
FR1 n41 / 100MHz / DFT OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

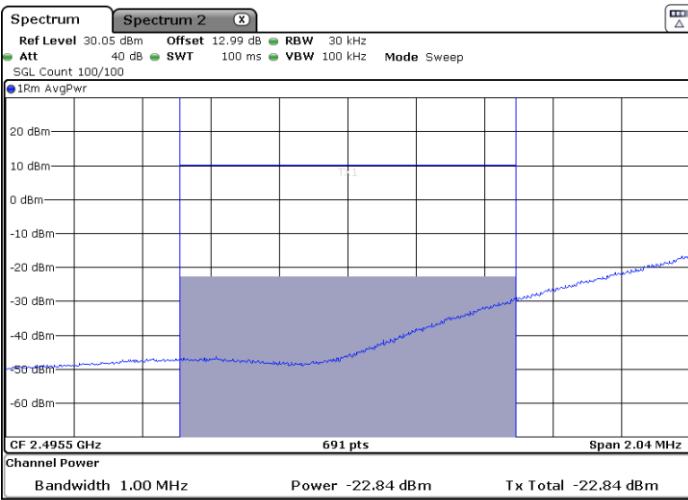
Highest Band Edge / 1RBmax



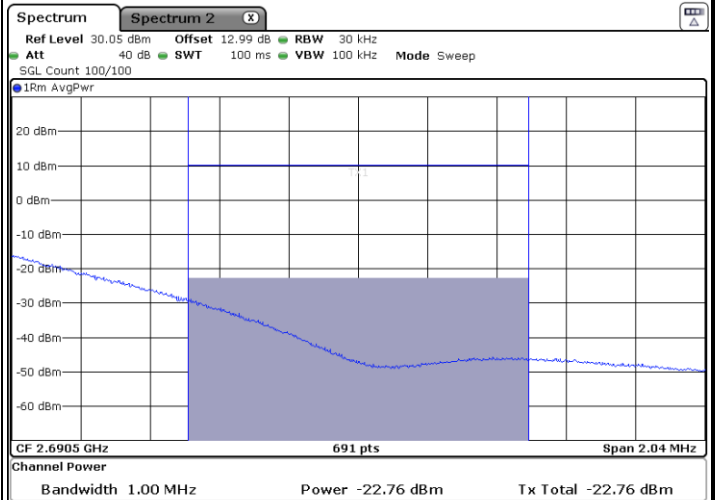
Date: 12.NOV.2022 09:49:20



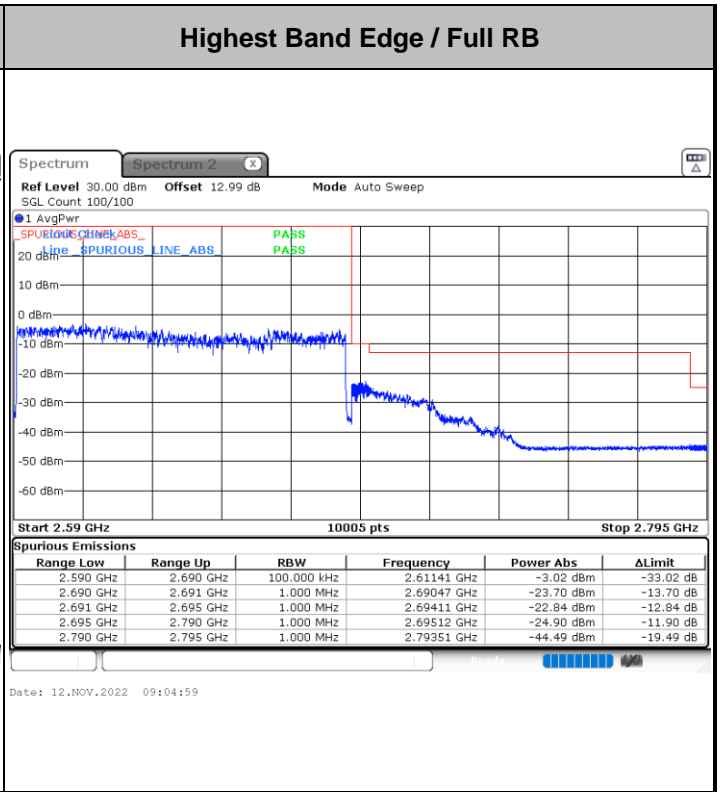
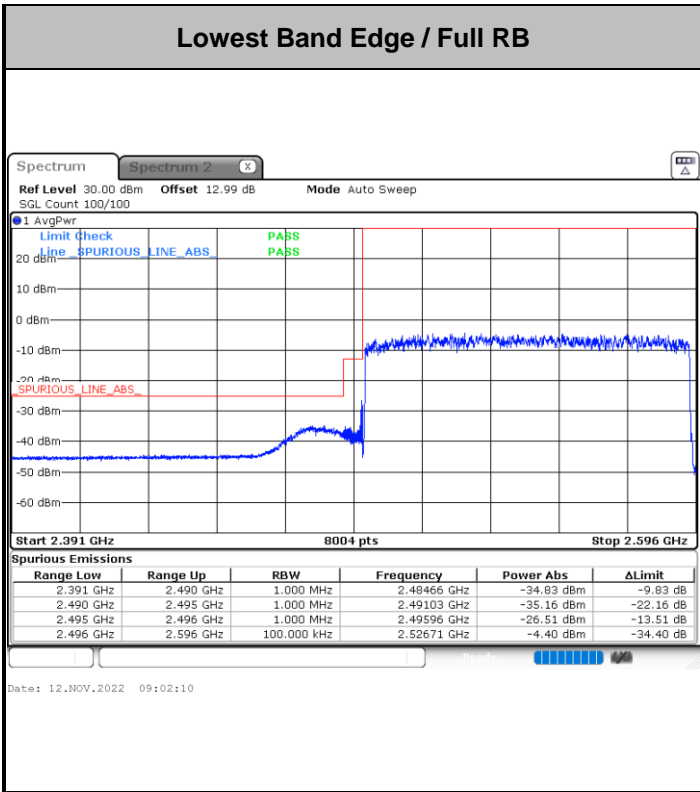
Date: 12.NOV.2022 09:07:34



Date: 12.NOV.2022 11:00:44



Date: 12.NOV.2022 11:02:38

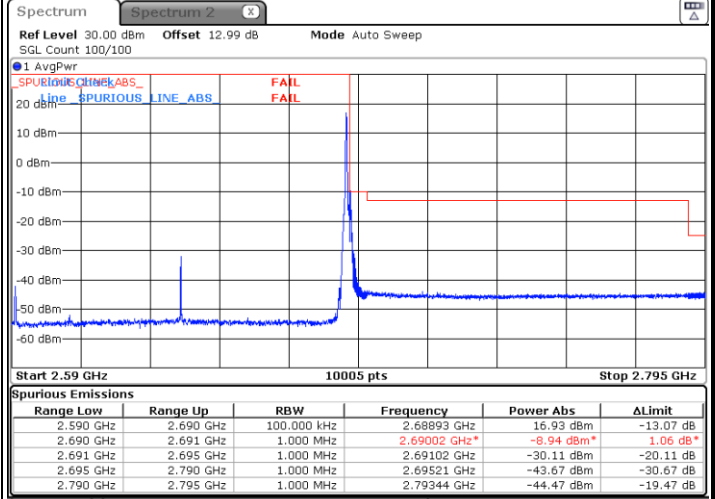
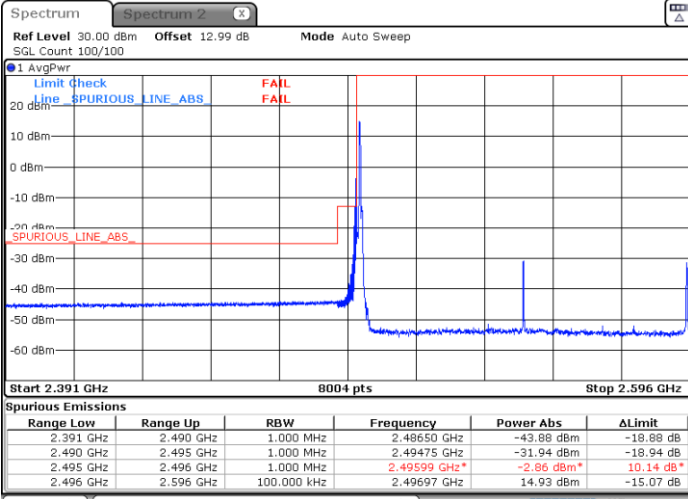




FR1 n41 / 100MHz / DFT OFDM / QPSK

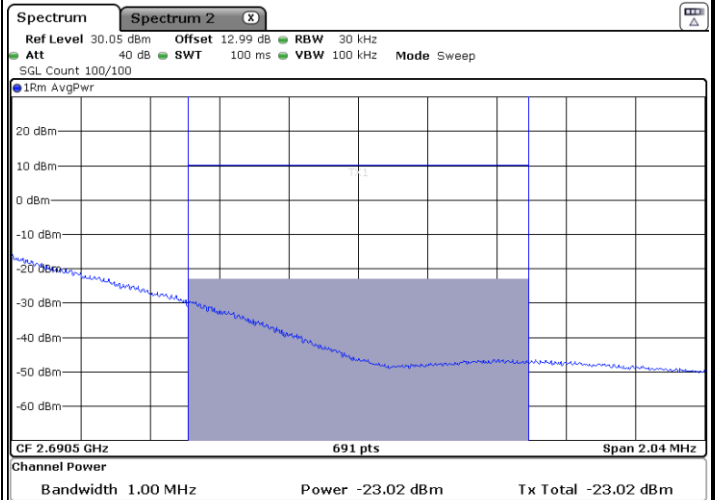
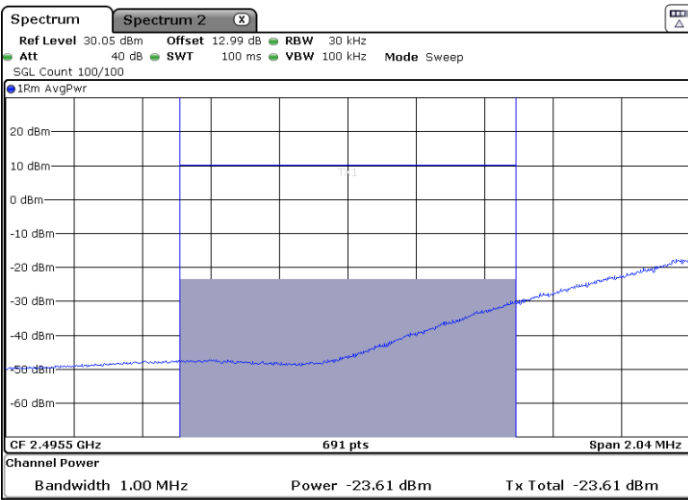
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



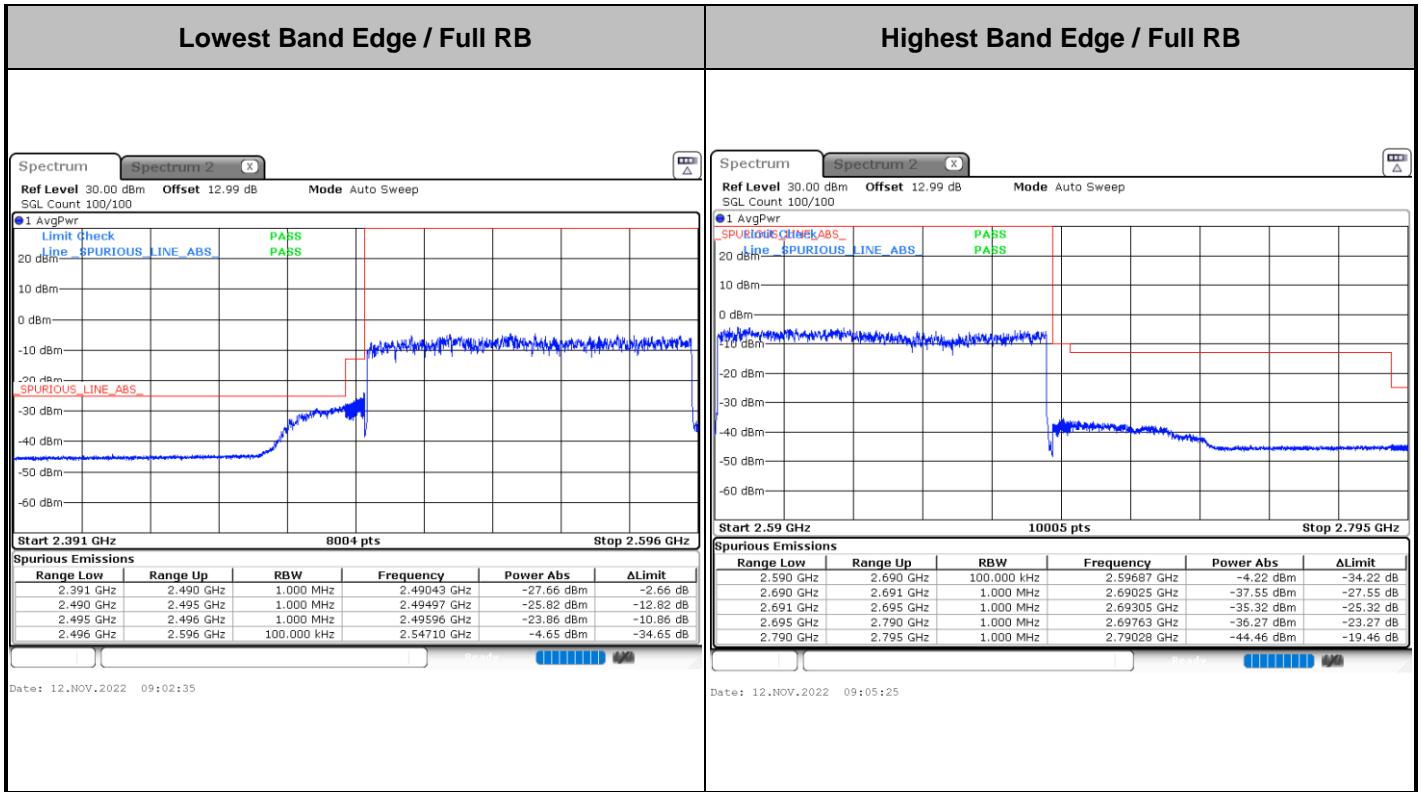
Date: 12.NOV.2022 09:50:34

Date: 12.NOV.2022 09:06:22



Date: 12.NOV.2022 11:01:23

Date: 12.NOV.2022 11:02:09



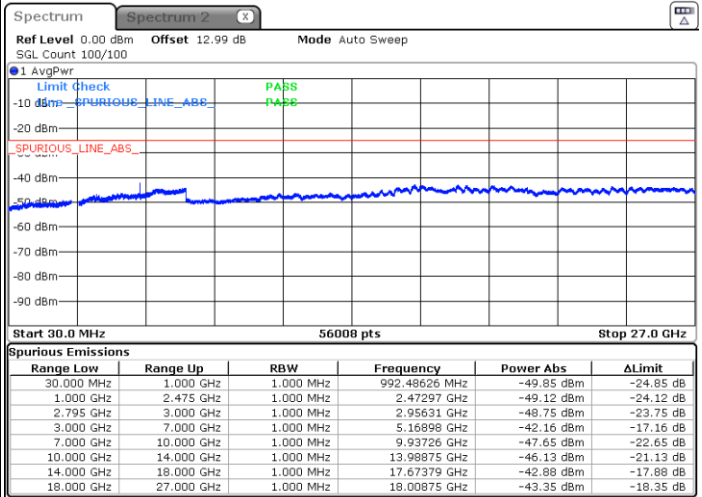
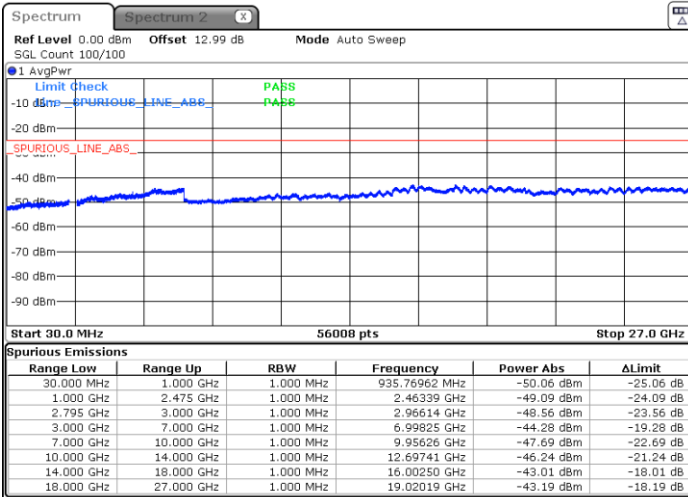


# Conducted Spurious Emission

## FR1 n41 / 20MHz / DFT-S OFDM / BPSK

### Lowest Channel / 1RB1

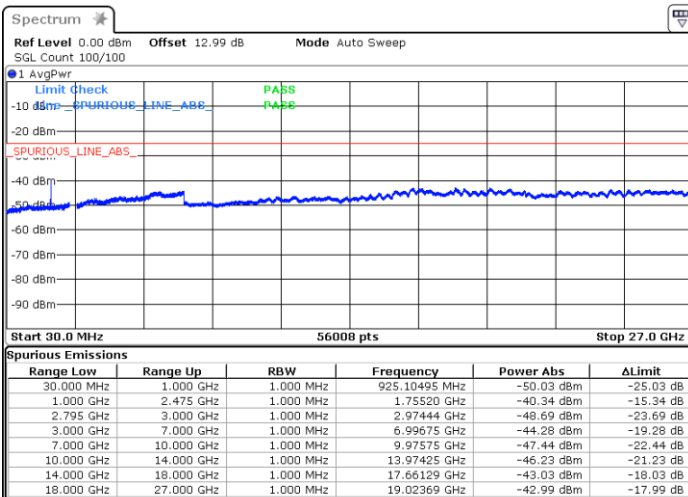
### Middle Channel / 1RB1



Date: 12.NOV.2022 10:35:57

Date: 12.NOV.2022 10:31:58

### Highest Channel / 1RB1



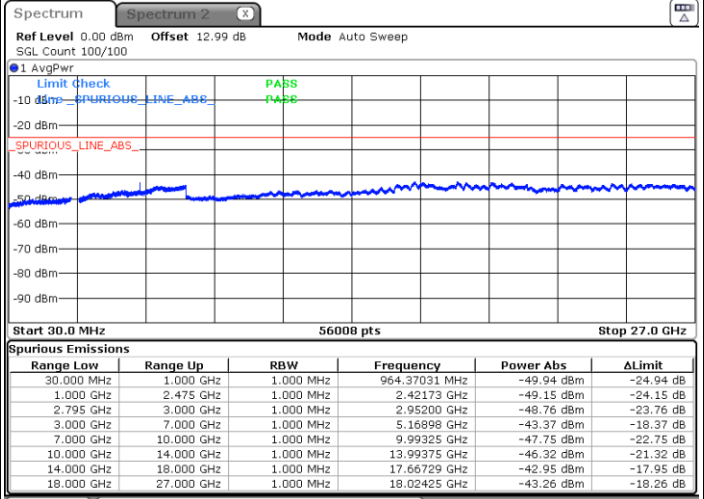
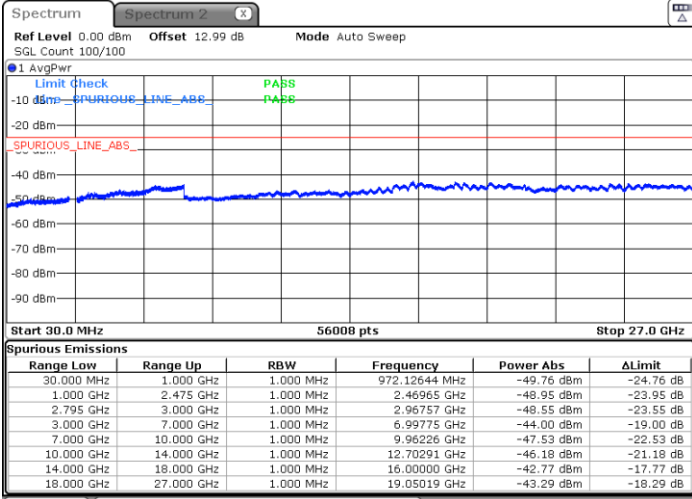
Date: 13.NOV.2022 19:31:15



FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

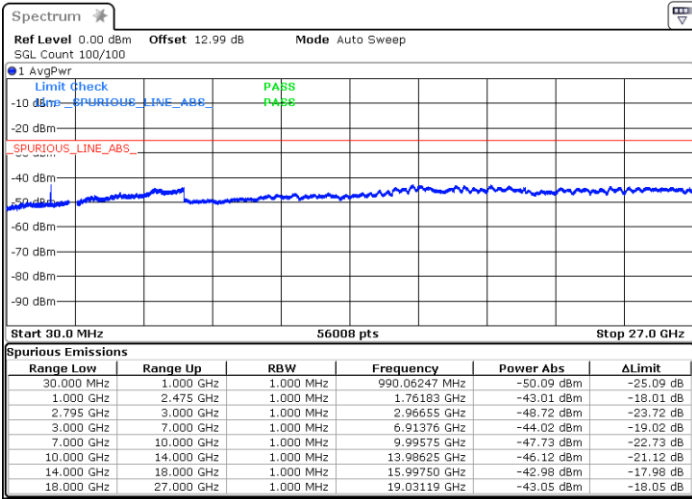
Middle Channel / 1RB1



Date: 12.NOV.2022 10:35:01

Date: 12.NOV.2022 10:33:55

Highest Channel / 1RB1



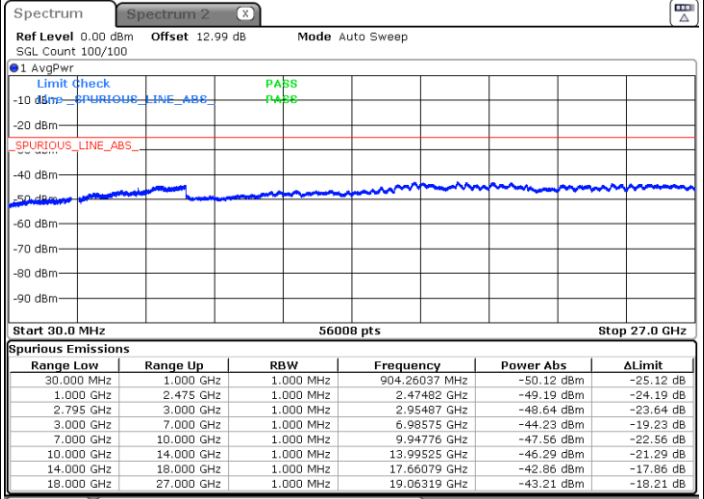
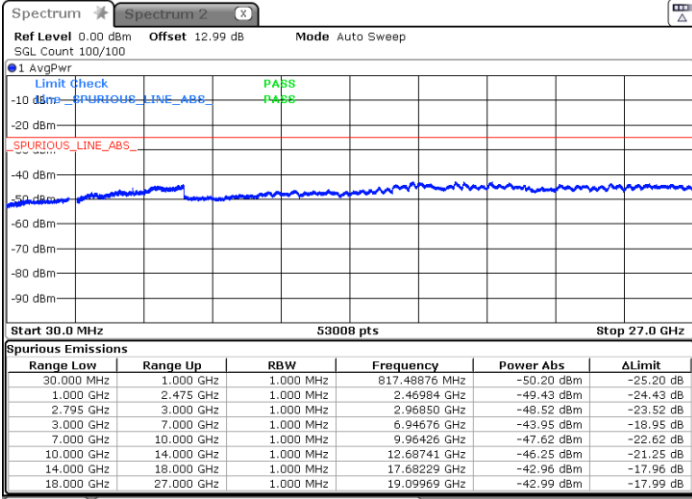
Date: 13.NOV.2022 19:33:13



FR1 n41 /60MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

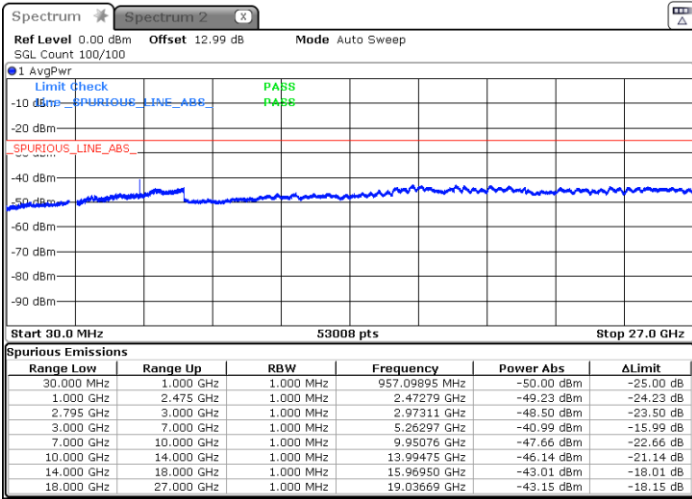
Middle Channel / 1RB1



Date: 12.NOV.2022 10:11:48

Date: 12.NOV.2022 09:55:19

Highest Channel / 1RB1



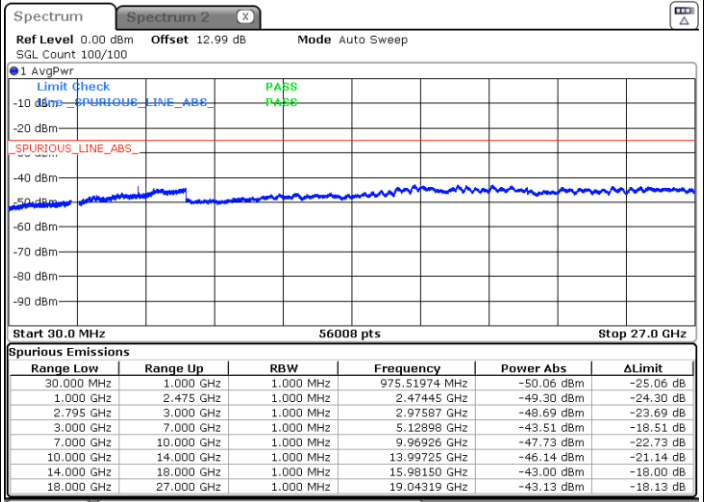
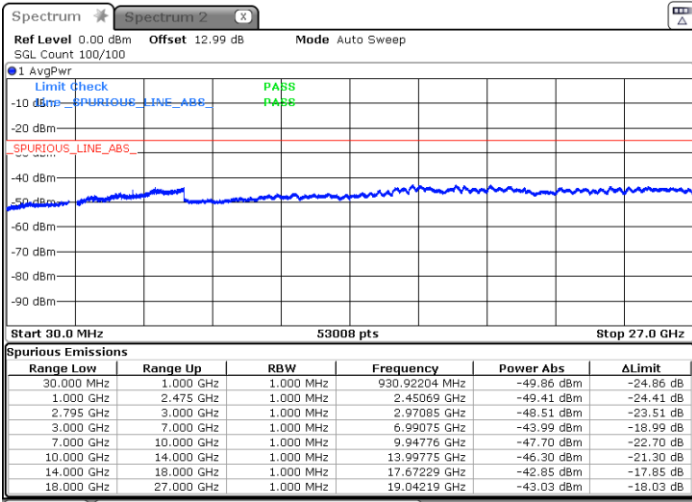
Date: 12.NOV.2022 10:13:48



FR1 n41 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

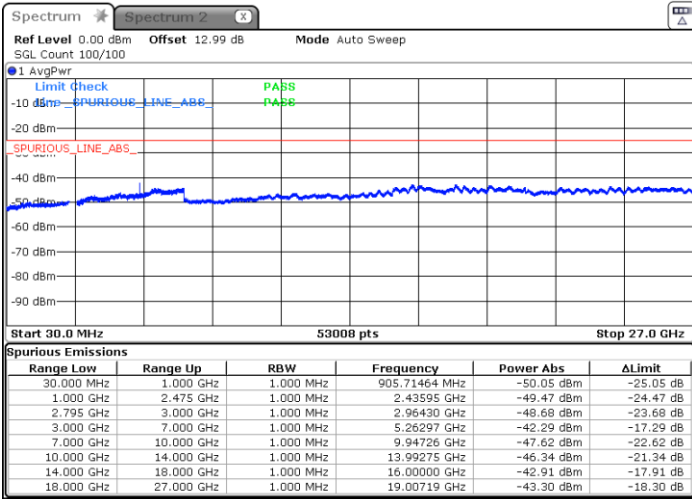
Middle Channel / 1RB1



Date: 12.NOV.2022 10:09:31

Date: 12.NOV.2022 09:56:28

Highest Channel / 1RB1



Date: 12.NOV.2022 10:14:52

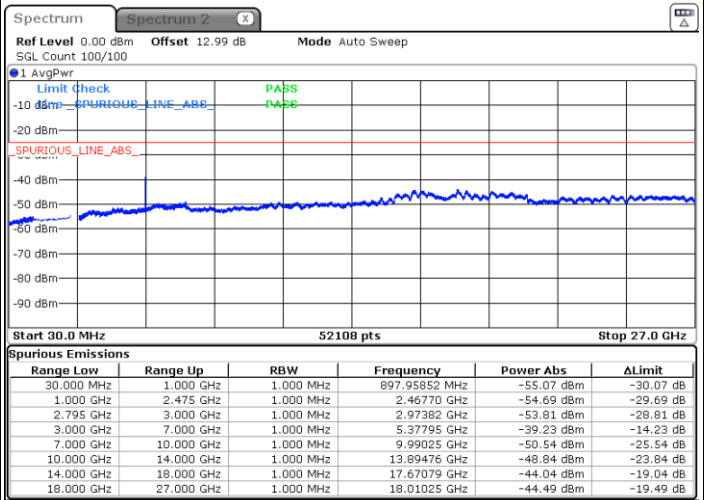
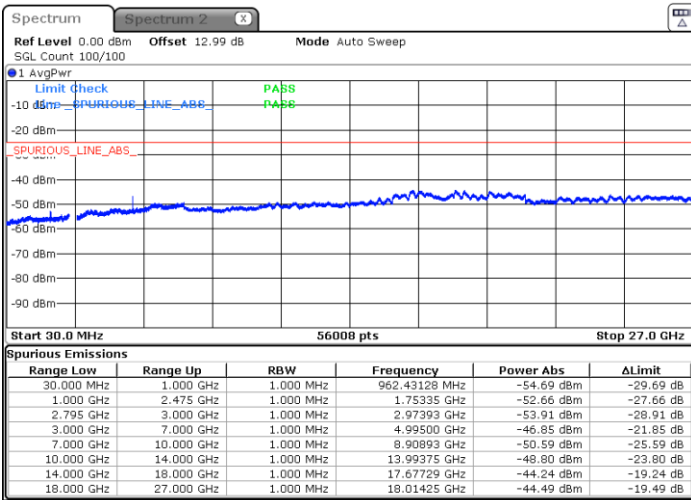




FR1 n41 /100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

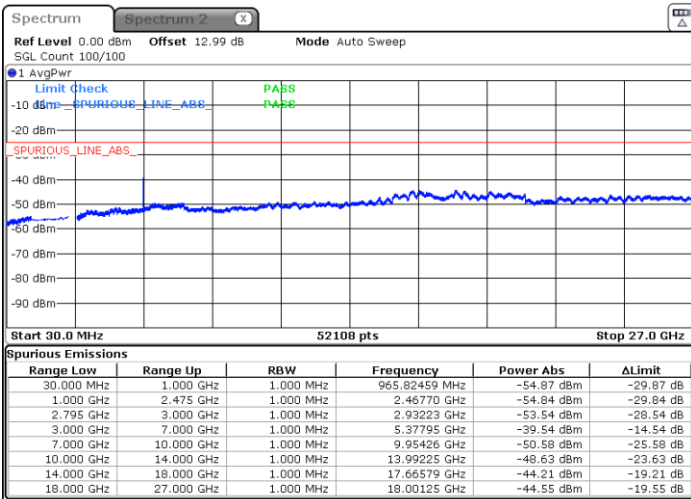
Middle Channel / 1RB1



Date: 12.NOV.2022 08:59:25

Date: 12.NOV.2022 09:15:49

Highest Channel / 1RB1



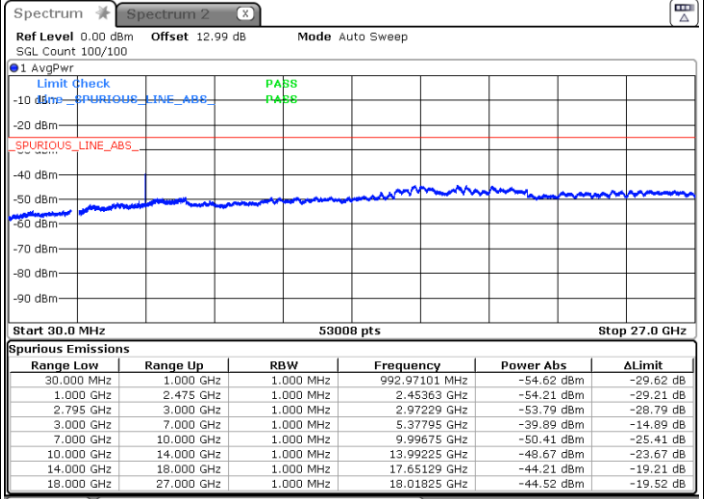
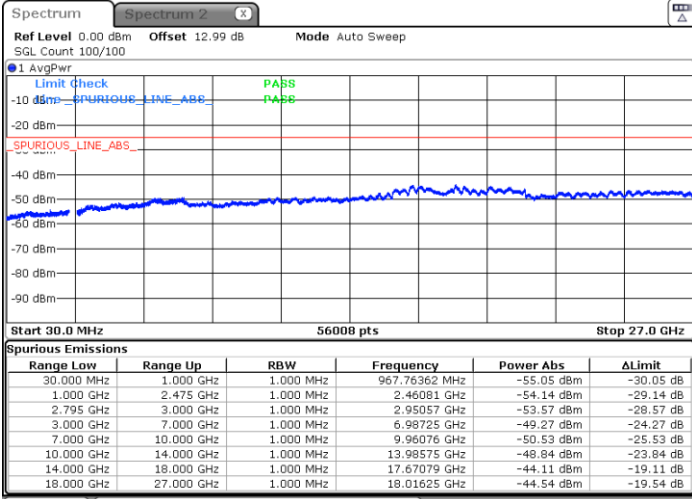
Date: 12.NOV.2022 09:09:28



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

Lowest Channel / 1RB1

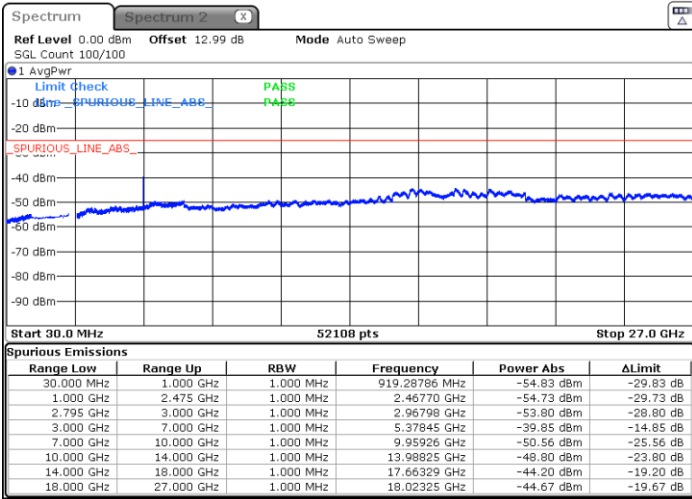
Middle Channel / 1RB1



Date: 12.NOV.2022 08:57:23

Date: 12.NOV.2022 09:13:14

Highest Channel / 1RB1



Date: 12.NOV.2022 09:10:22



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0025	

Note:

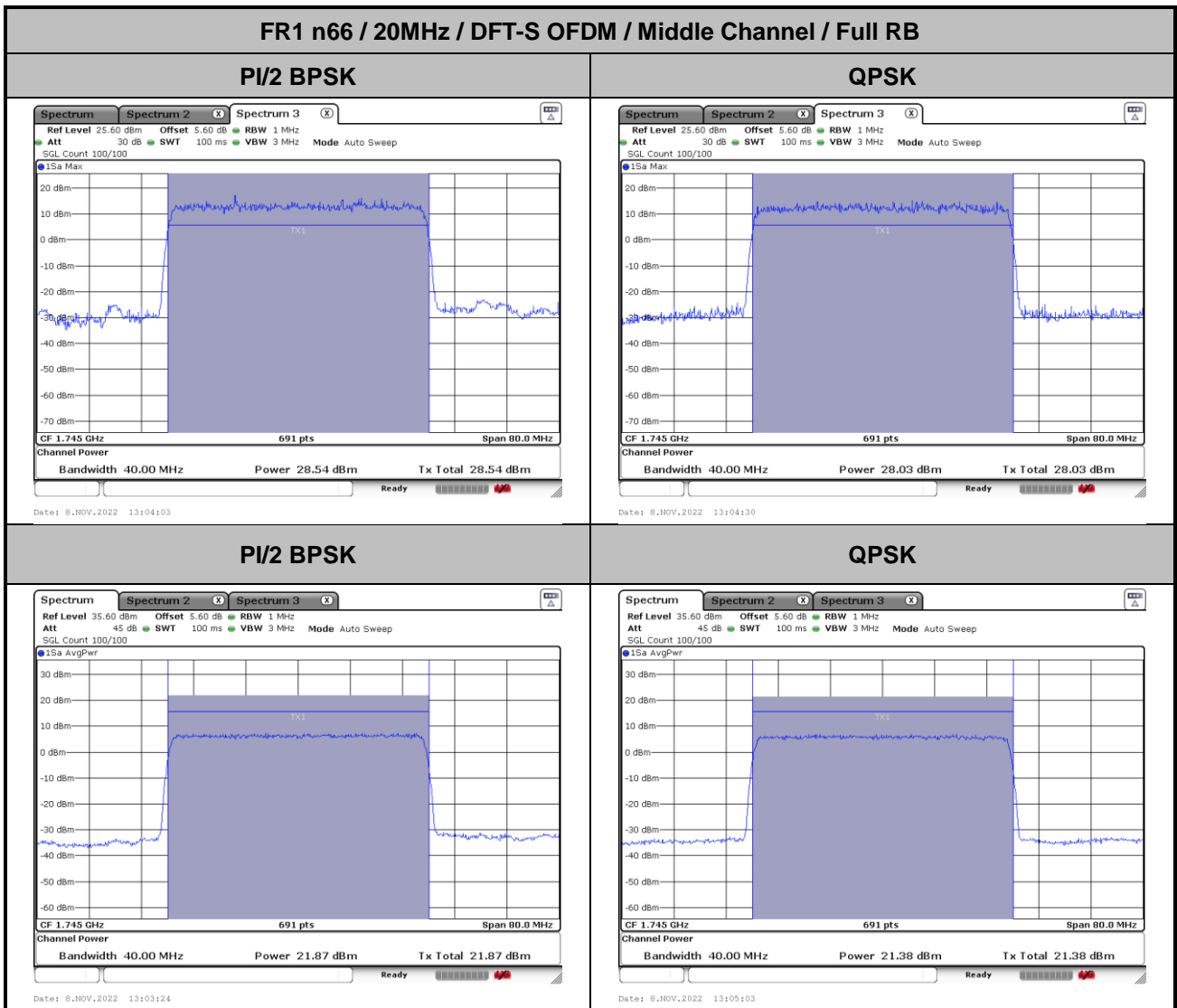
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n66(Main PA)

## Peak-to-Average Ratio

Mode	FR1 n66 / 40MHz / DFT-S OFDM			
Mod.	PI/2 BPSK	QPSK		Limit: 13dB
RB Size	Full RB	Full RB		Result
Middle CH	6.67	6.65		PASS





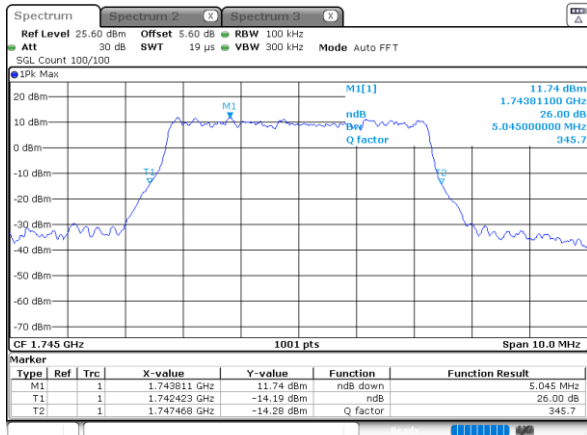
**26dB Bandwidth**

Mode	FR1 n66 : 26dBW (MHz) / CP OFDM					
BW	5MHz	10MHz	15MHz	20MHz	30MHz	40MHz
Mod.	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Middle CH	5.05	9.99	14.90	20.14	29.49	41.00
BW	5MHz	10MHz	15MHz	20MHz	30MHz	40MHz
Mod.	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM
Middle CH	5.08	10.19	15.11	19.86	29.65	41.00
BW	5MHz	10MHz	15MHz	20MHz	30MHz	40MHz
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM
Middle CH	4.98	10.15	14.96	20.06	29.57	41.00
BW	5MHz	10MHz	15MHz	20MHz	30MHz	40MHz
Mod.	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Middle CH	5.11	10.17	15.23	19.78	29.73	40.92

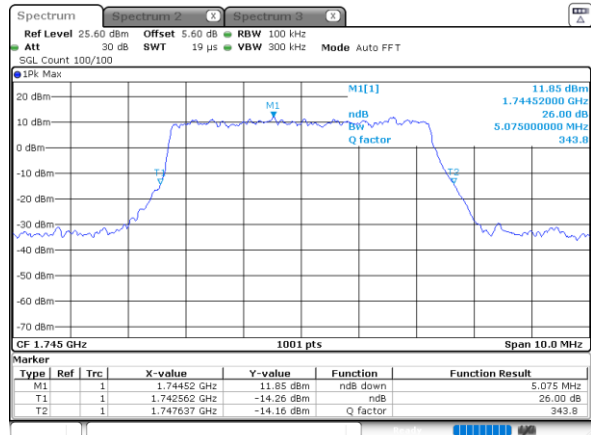


FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

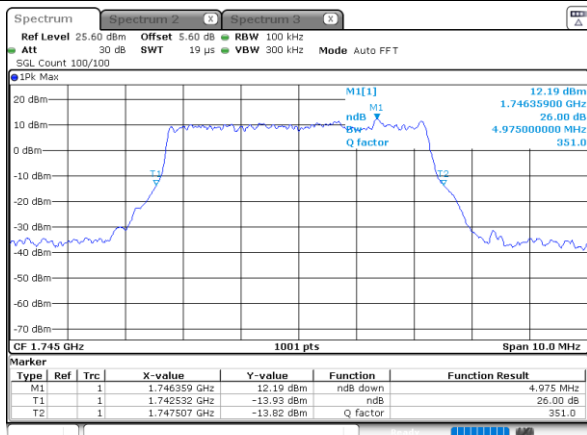
QPSK



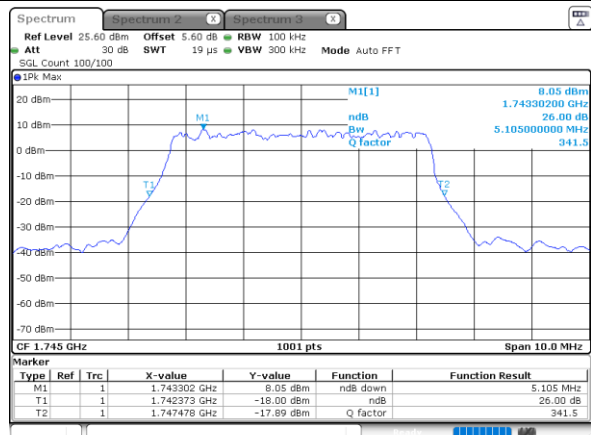
16QAM



64QAM



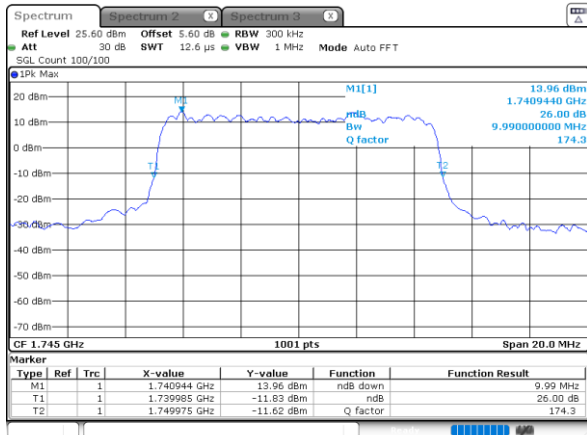
256QAM





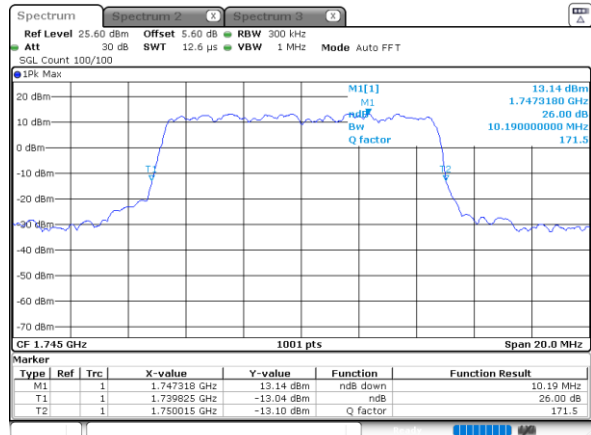
FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



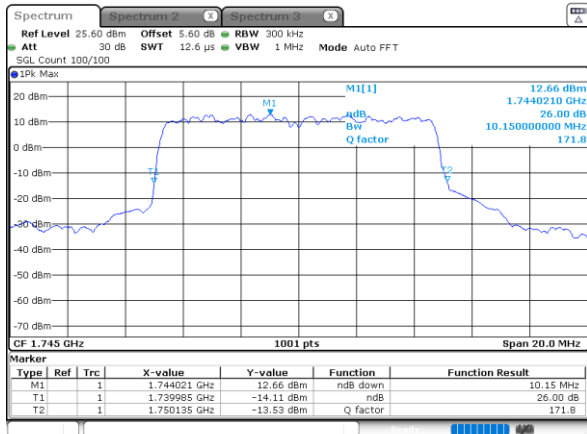
Date: 8.NOV.2022 13:49:13

16QAM



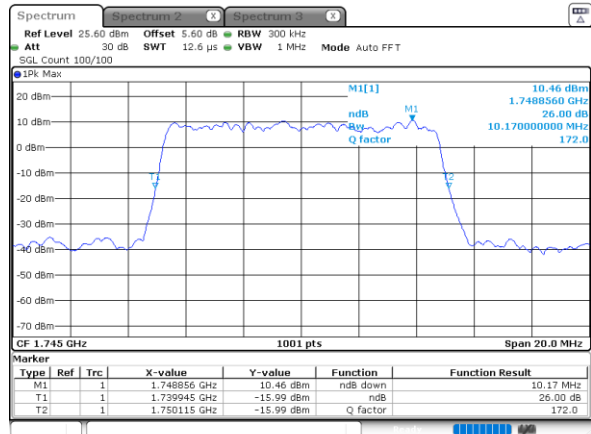
Date: 8.NOV.2022 13:48:53

64QAM



Date: 8.NOV.2022 13:48:32

256QAM

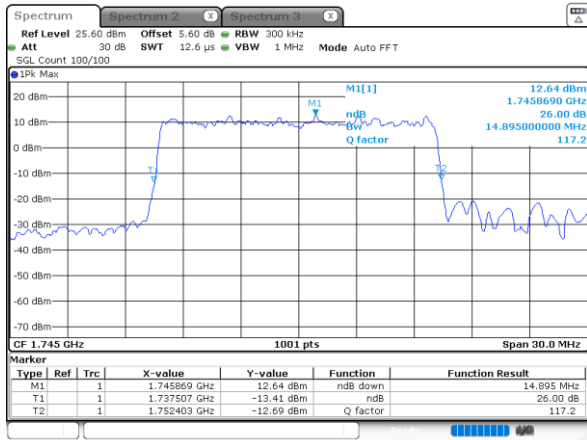


Date: 8.NOV.2022 13:48:10



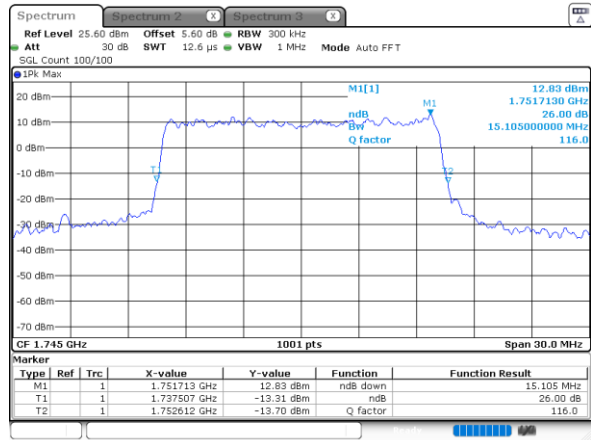
FR1 n66 /15MHz / CP OFDM / Middle Channel / Full RB

QPSK



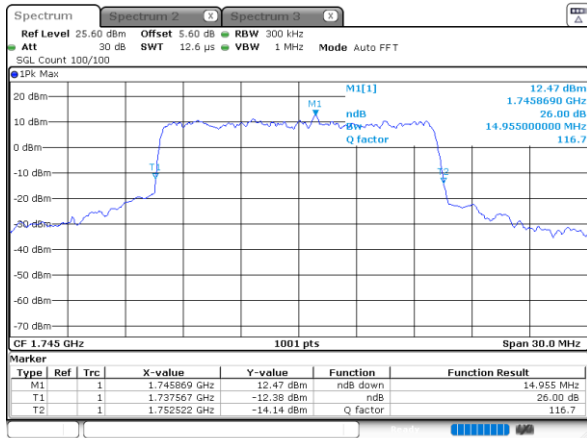
Date: 8.NOV.2022 13:42:49

16QAM



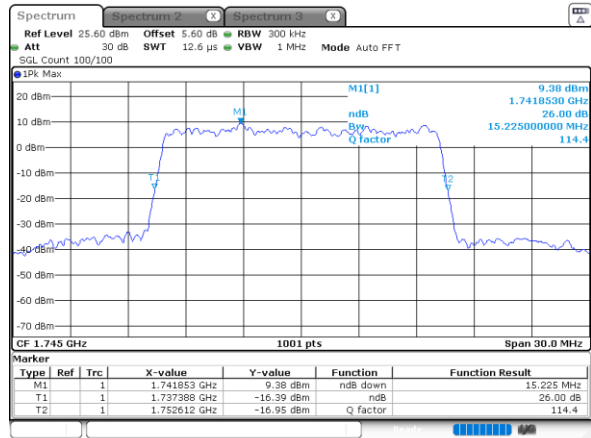
Date: 8.NOV.2022 13:44:11

64QAM



Date: 8.NOV.2022 13:45:38

256QAM



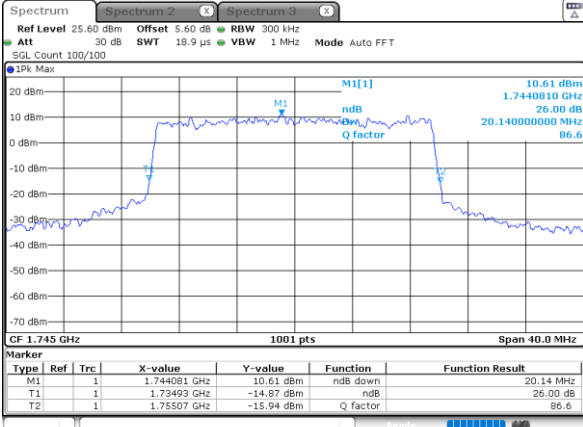
Date: 8.NOV.2022 13:47:16





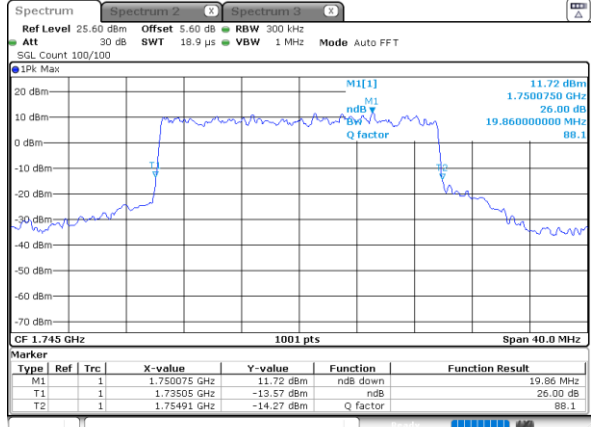
FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



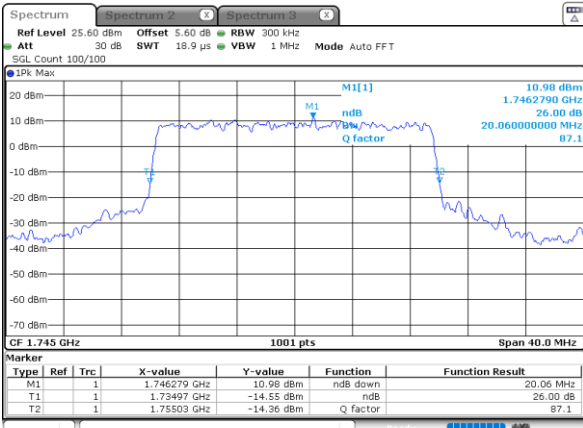
Date: 8,NOV,2022 13:20:48

16QAM



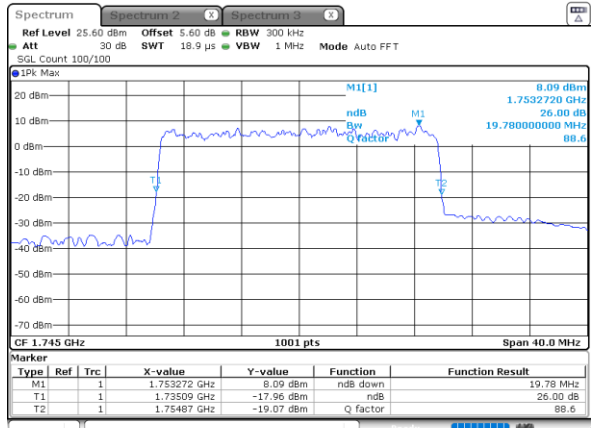
Date: 8,NOV,2022 13:17:00

64QAM



Date: 8,NOV,2022 13:16:38

256QAM

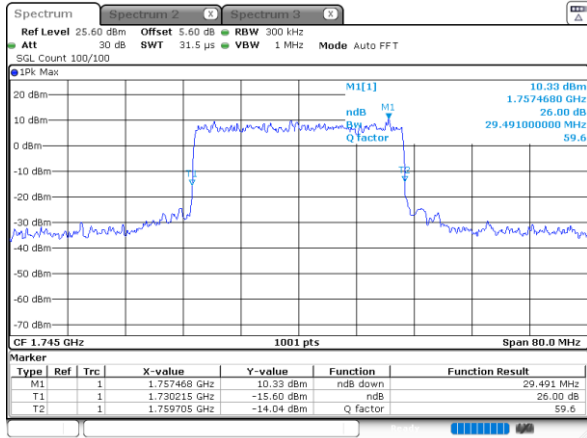


Date: 8,NOV,2022 13:16:09



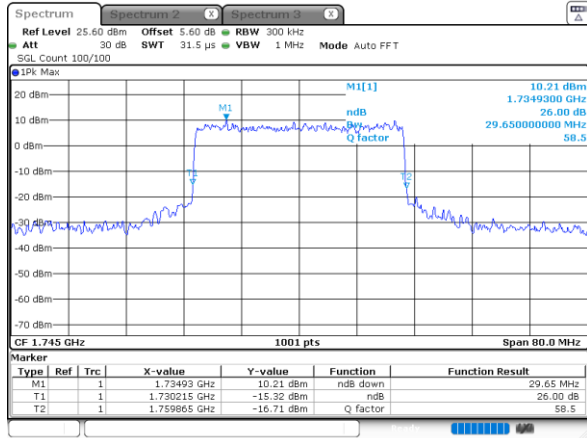
FR1 n66 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



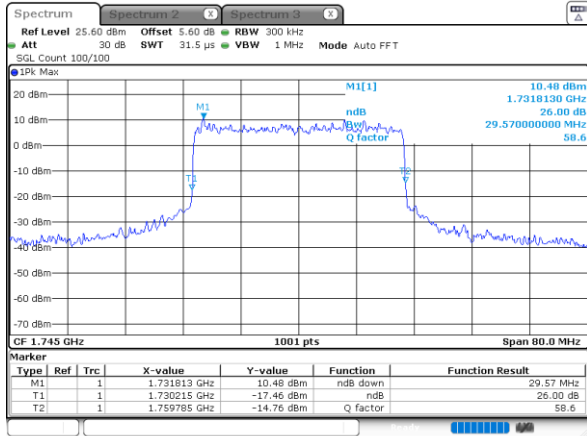
Date: 8.NOV.2022 13:09:58

16QAM



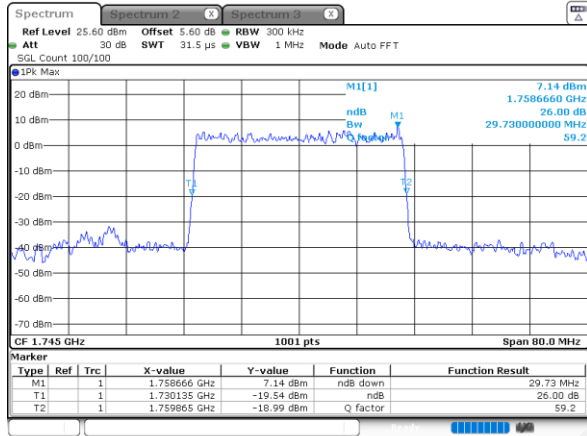
Date: 8.NOV.2022 13:11:03

64QAM



Date: 8.NOV.2022 13:12:35

256QAM

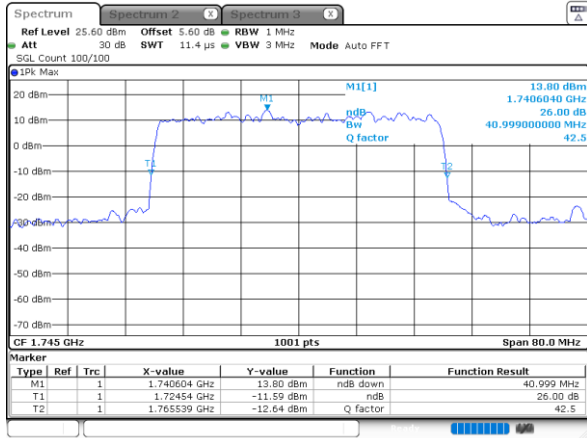


Date: 8.NOV.2022 13:14:17



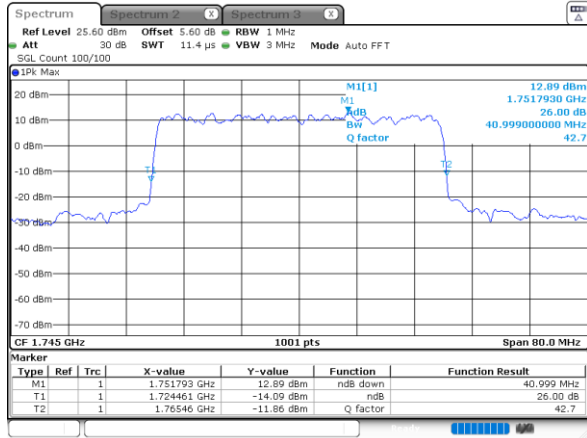
FR1 n66 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



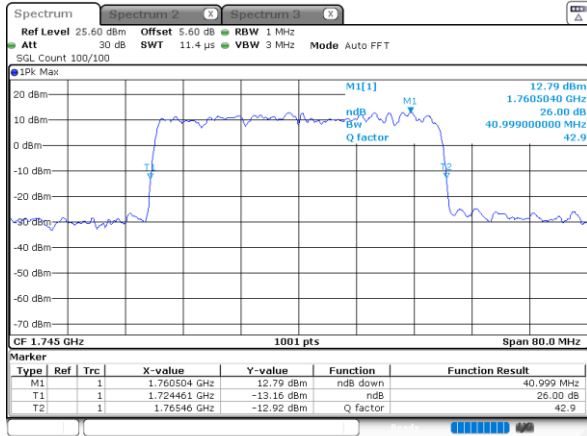
Date: 8,NOV,2022 12:24:13

16QAM



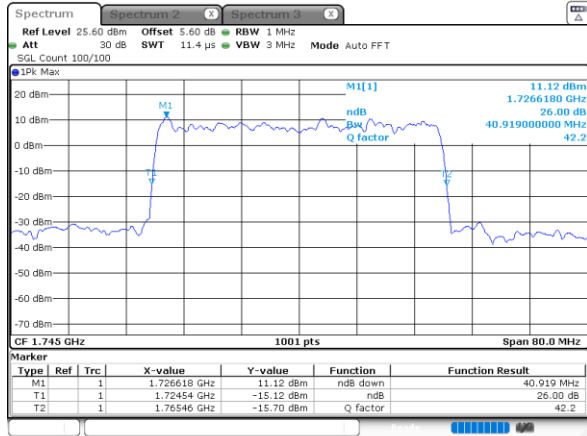
Date: 8,NOV,2022 12:42:31

64QAM



Date: 8,NOV,2022 12:42:51

256QAM



Date: 8,NOV,2022 12:43:39



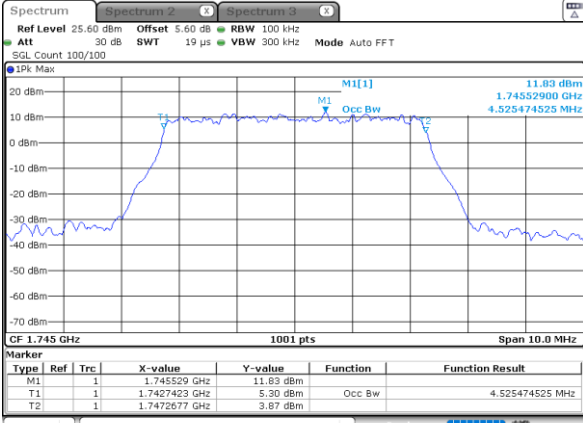
## Occupied Bandwidth

Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM					
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>30MHz</b>	<b>40MHz</b>
<b>Mod.</b>	<b>QPSK</b>	<b>QPSK</b>	<b>QPSK</b>	<b>QPSK</b>	<b>QPSK</b>	<b>QPSK</b>
<b>Middle CH</b>	4.53	9.39	14.09	18.90	28.53	38.68
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>30MHz</b>	<b>40MHz</b>
<b>Mod.</b>	<b>16QAM</b>	<b>16QAM</b>	<b>16QAM</b>	<b>16QAM</b>	<b>16QAM</b>	<b>16QAM</b>
<b>Middle CH</b>	4.50	9.31	14.21	18.94	28.61	38.76
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>30MHz</b>	<b>40MHz</b>
<b>Mod.</b>	<b>64QAM</b>	<b>64QAM</b>	<b>64QAM</b>	<b>64QAM</b>	<b>64QAM</b>	<b>64QAM</b>
<b>Middle CH</b>	4.49	9.43	14.15	18.98	28.53	38.76
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>30MHz</b>	<b>40MHz</b>
<b>Mod.</b>	<b>256QAM</b>	<b>256QAM</b>	<b>256QAM</b>	<b>256QAM</b>	<b>256QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	4.50	9.37	14.18	18.94	28.53	38.60

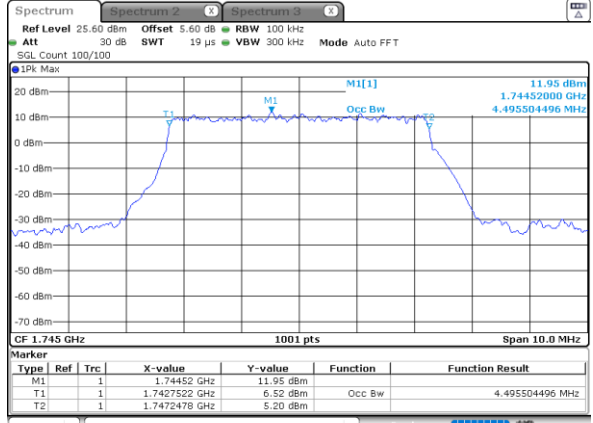


FR1 n66/ 5MHz / CP OFDM / Middle Channel / Full RB

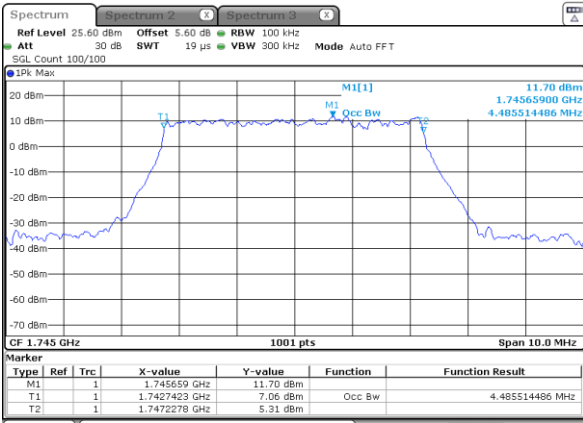
QPSK



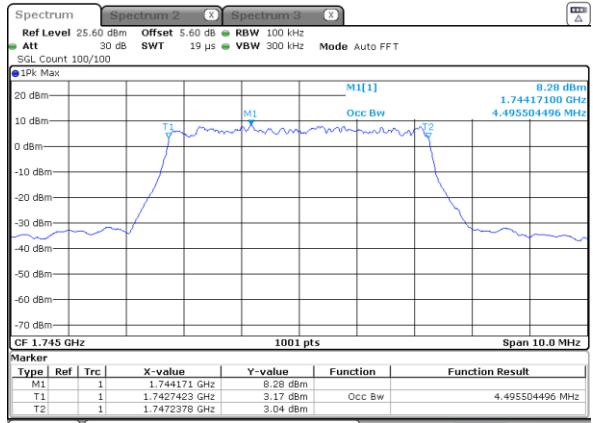
16QAM



64QAM



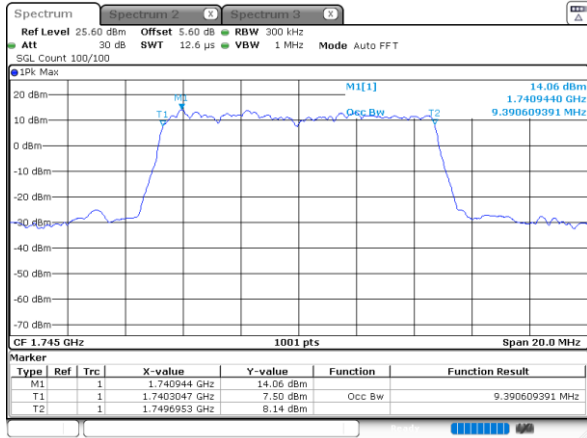
256QAM





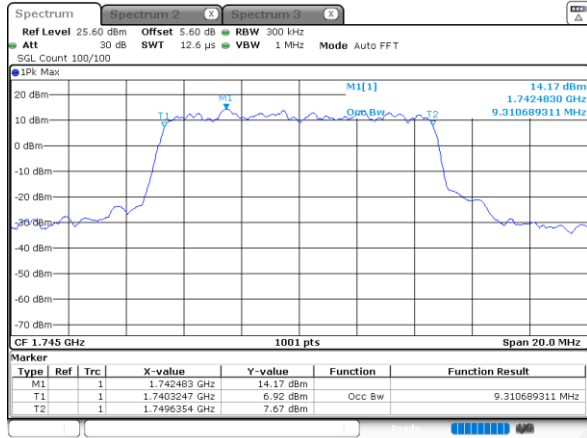
FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



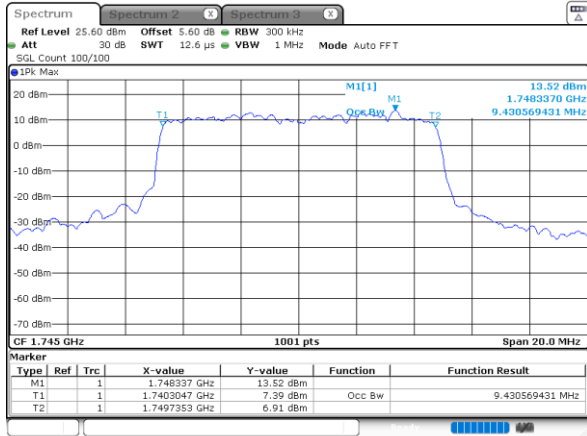
Date: 8.NOV.2022 13:49:05

16QAM



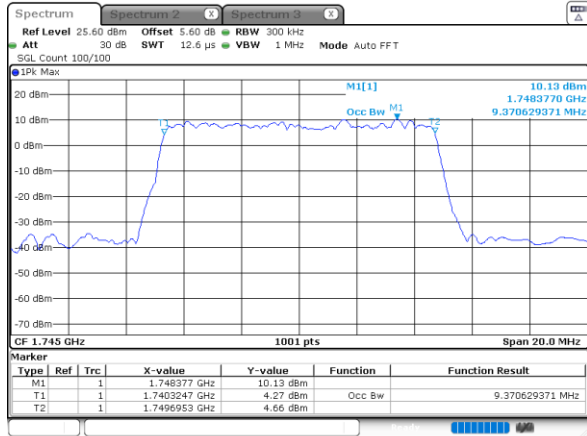
Date: 8.NOV.2022 13:48:47

64QAM



Date: 8.NOV.2022 13:48:25

256QAM

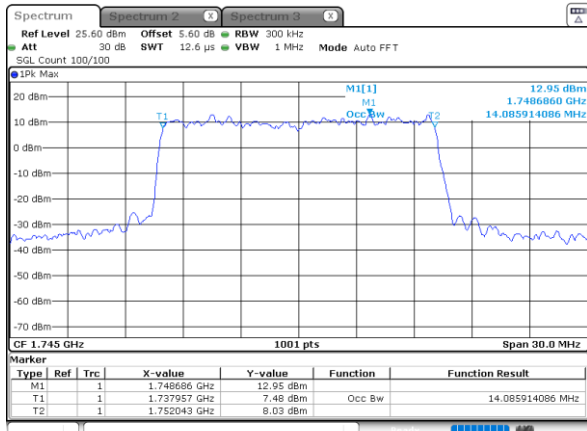


Date: 8.NOV.2022 13:48:03

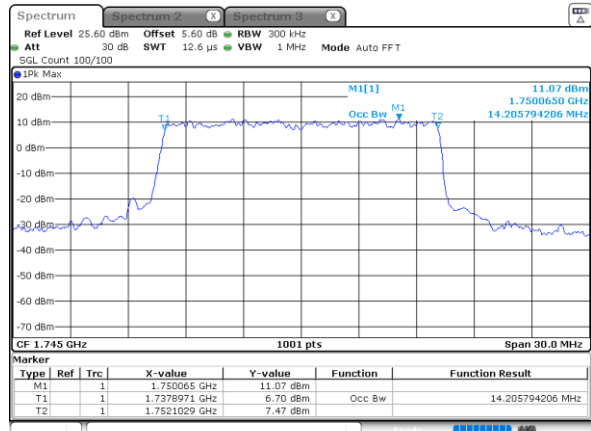


FR1 n66 /15MHz / CP OFDM / Middle Channel / Full RB

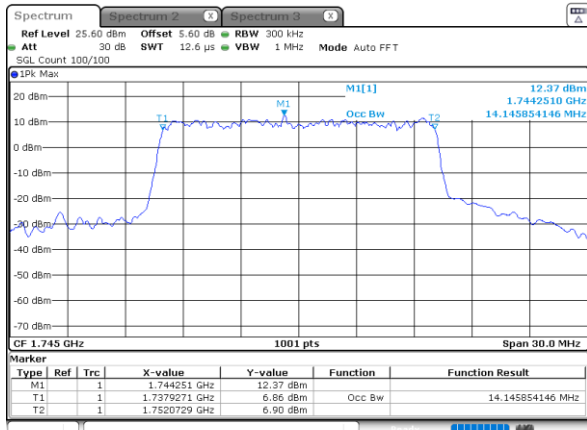
QPSK



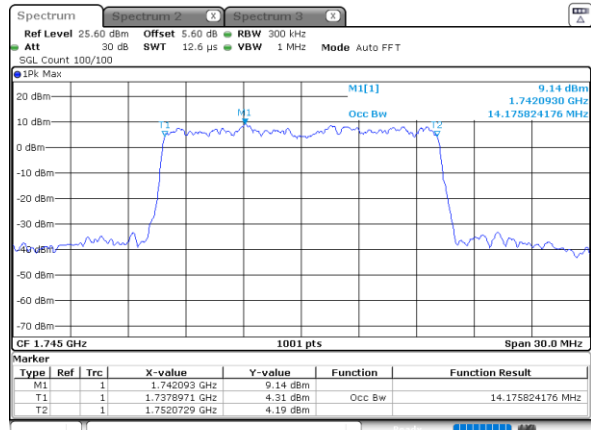
16QAM



64QAM



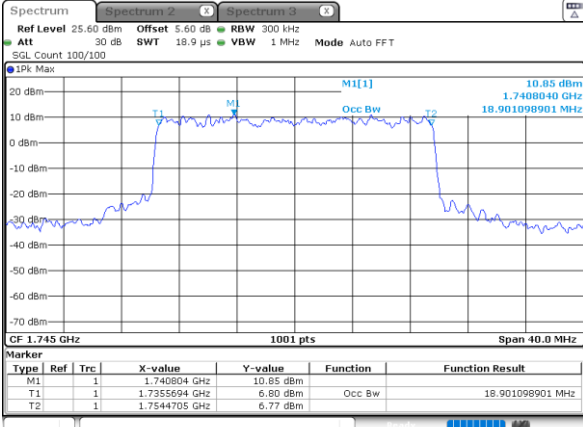
256QAM





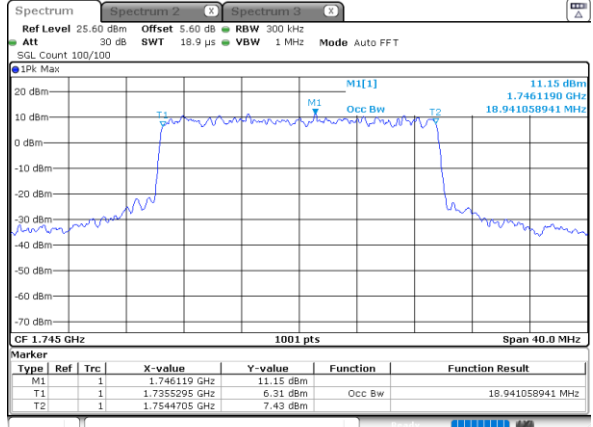
FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



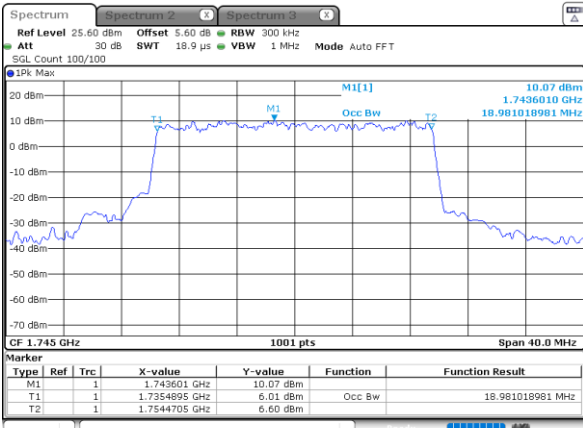
Date: 8,NOV,2022 13:11:23

16QAM



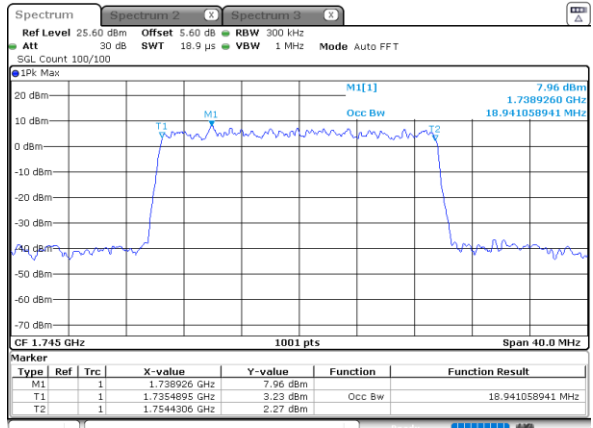
Date: 8,NOV,2022 13:16:52

64QAM



Date: 8,NOV,2022 13:16:28

256QAM



Date: 8,NOV,2022 13:15:52