

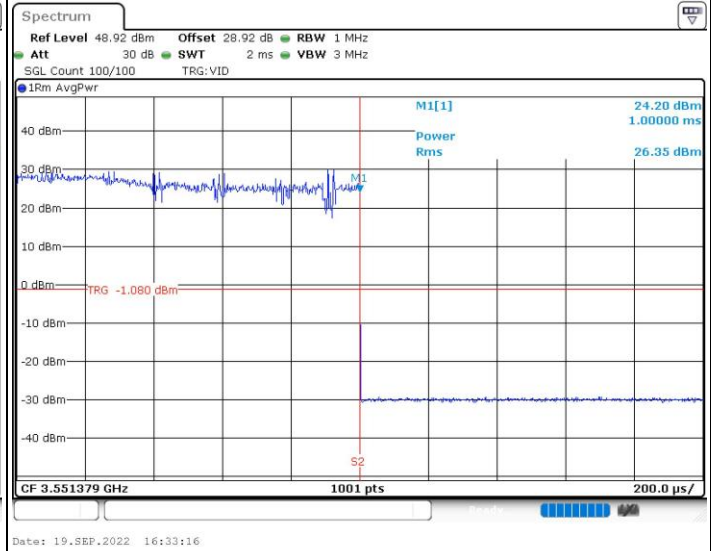
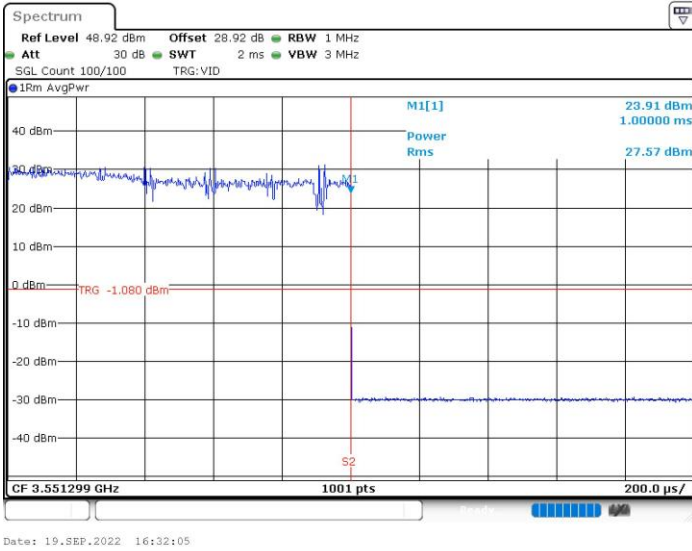


FR1 n48 / 40MHz / CP OFDM

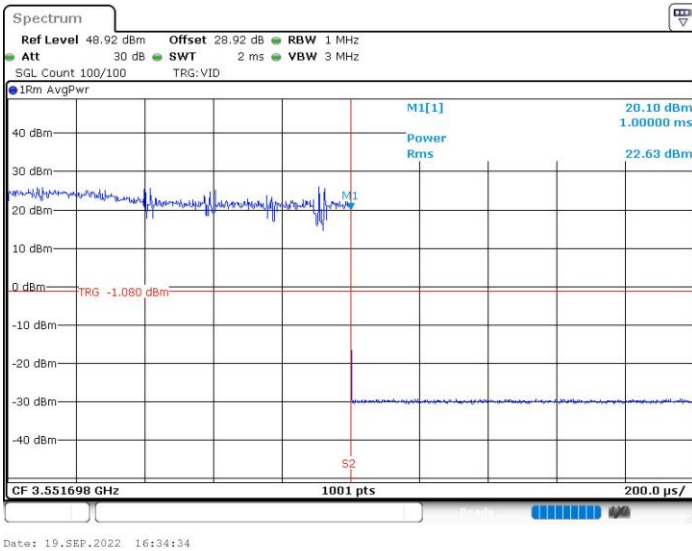
Lowest channel

1RB1 16QAM

1RB1 64QAM



1RB1 256QAM



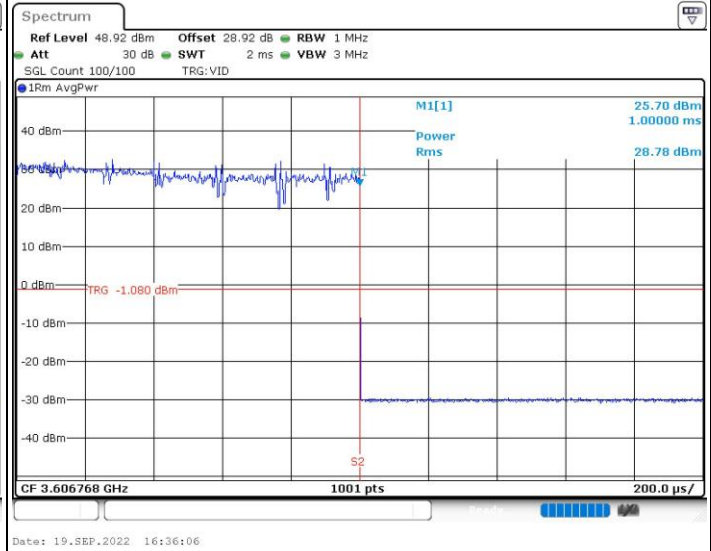
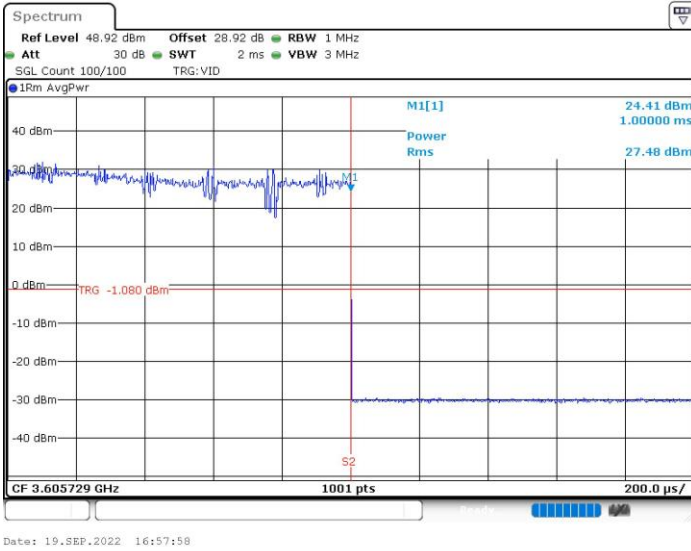


FR1 n48 / 40MHz / CP OFDM

Middle channel

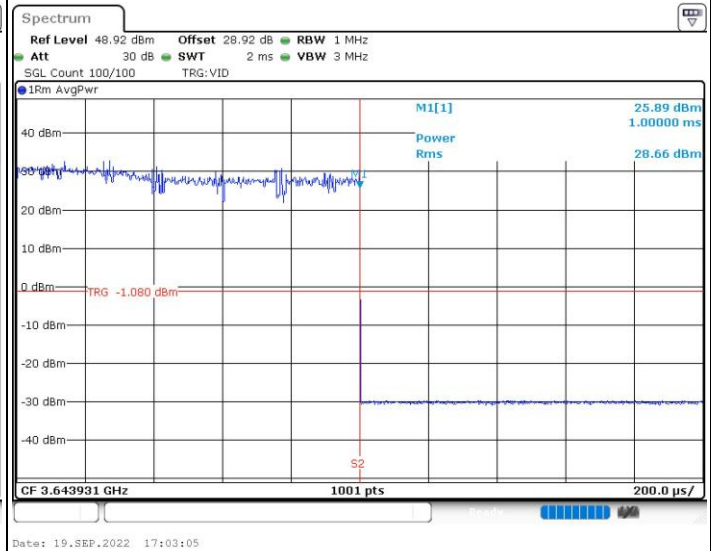
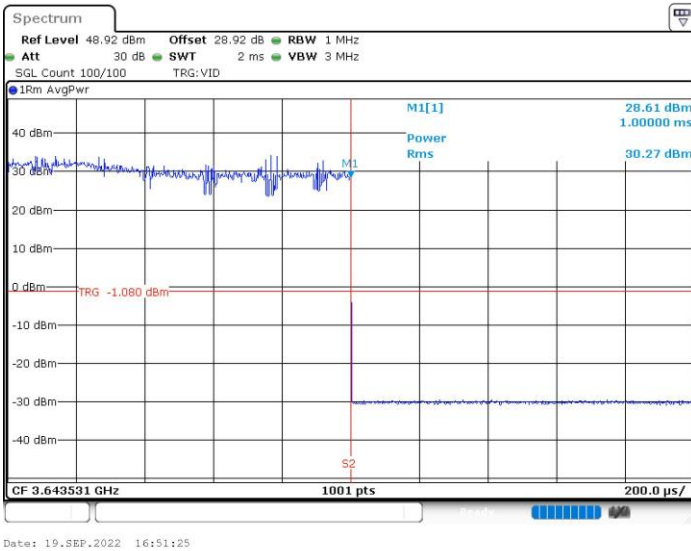
1RB0 QPSK

1RB1 QPSK



1RB104 QPSK

1RB105 QPSK



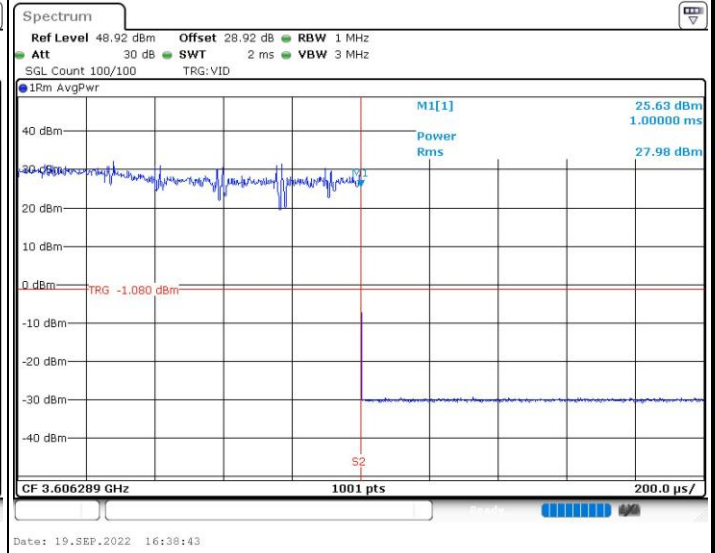
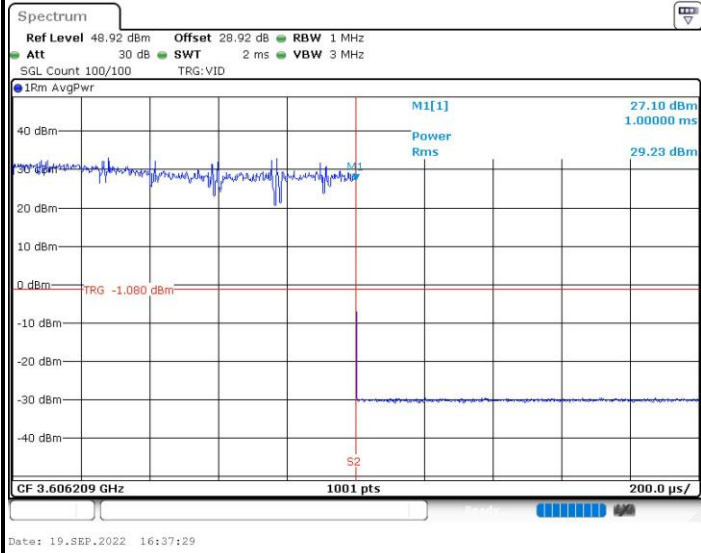


FR1 n48 / 40MHz / CP OFDM

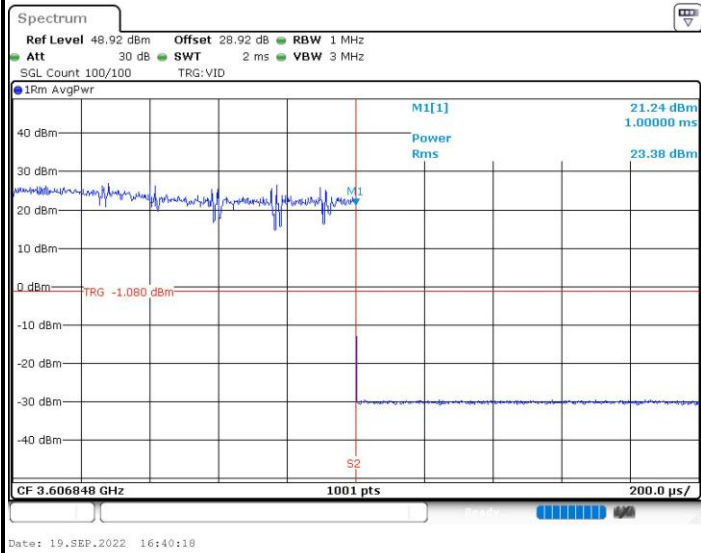
Middle channel

1RB1 16QAM

1RB1 64QAM



1RB1 256QAM

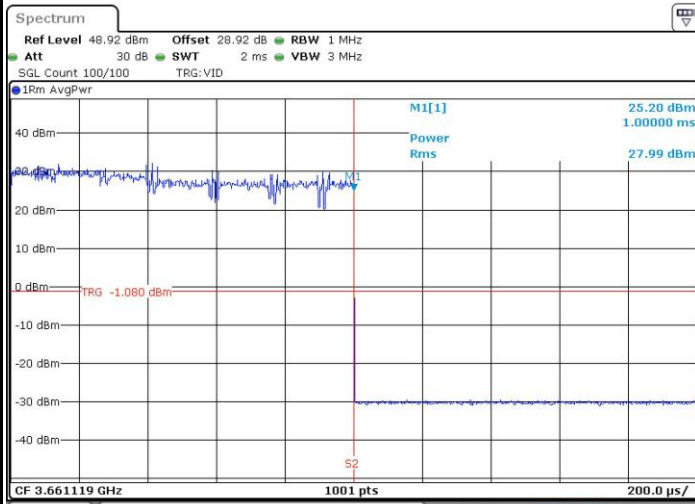




FR1 n48 / 40MHz / CP OFDM

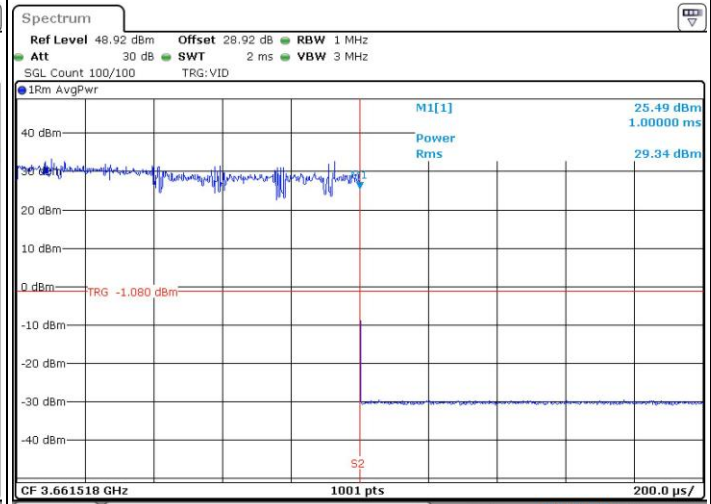
Highest channel

1RB0 QPSK



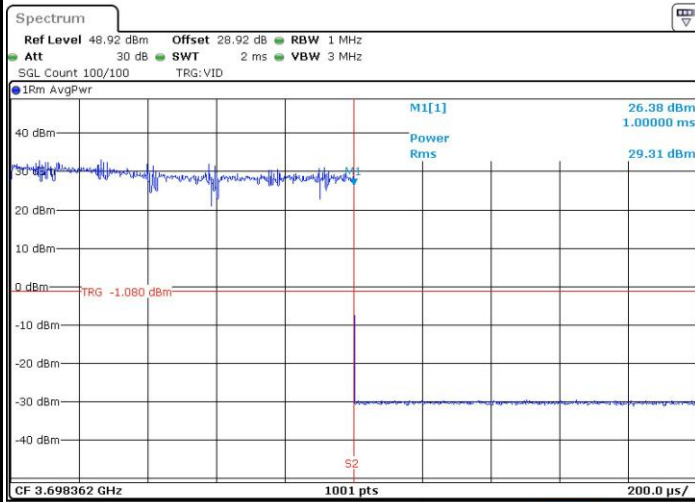
Date: 19.SEP.2022 16:59:43

1RB1 QPSK



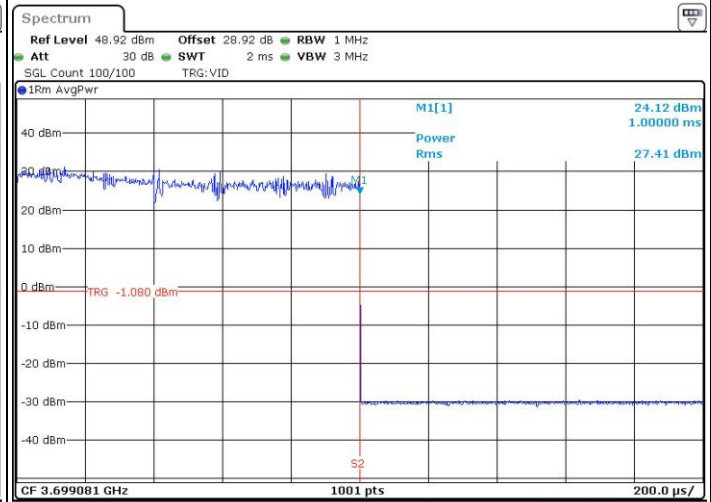
Date: 19.SEP.2022 16:42:31

1RB104 QPSK



Date: 19.SEP.2022 16:53:09

1RB105 QPSK



Date: 19.SEP.2022 17:04:47

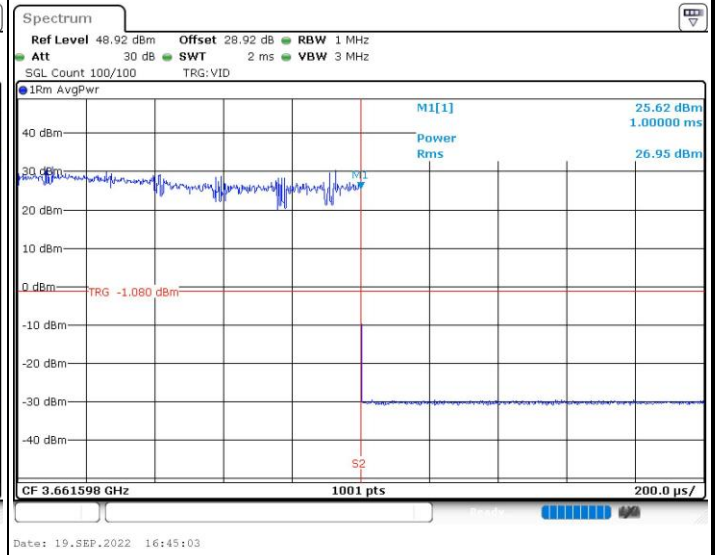
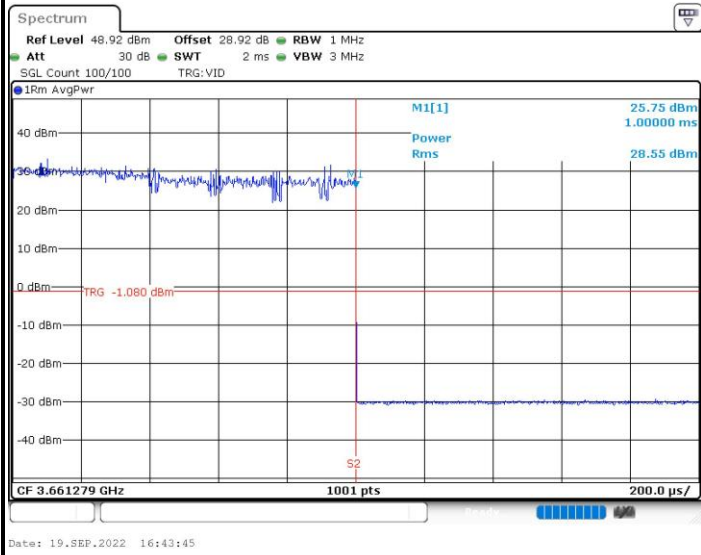


FR1 n48 / 40MHz / CP OFDM

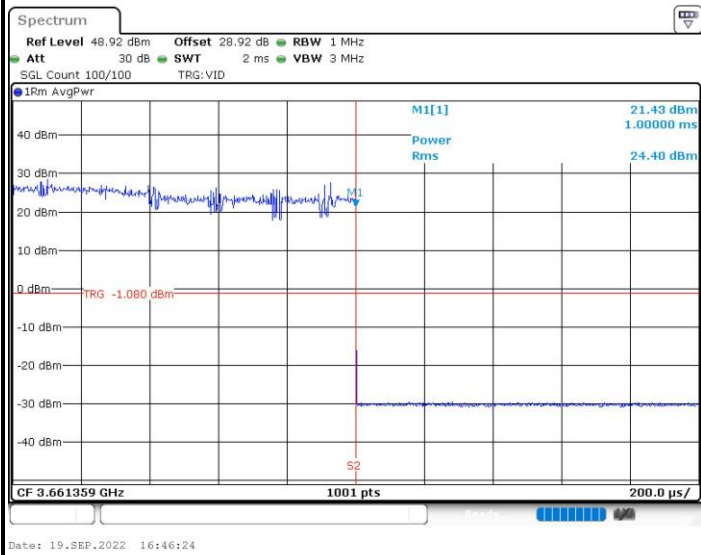
Highest channel

1RB1 16QAM

1RB1 64QAM



1RB1 256QAM

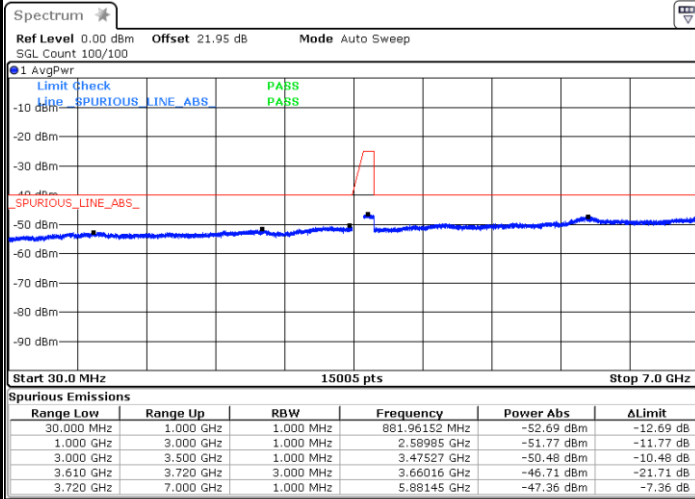




Conducted Spurious Emission

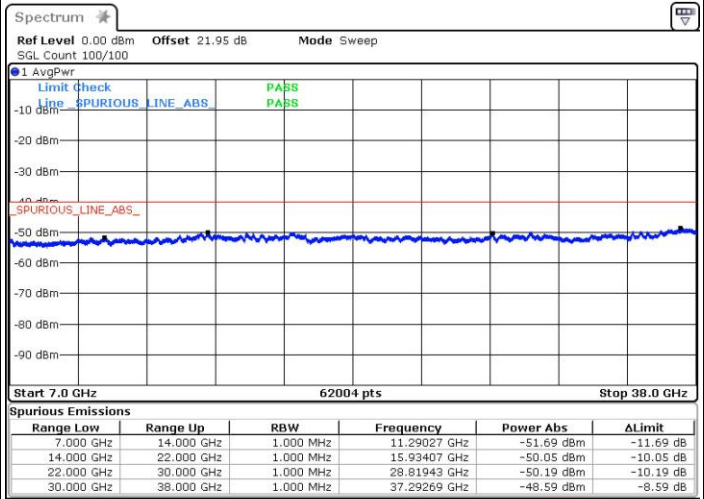
FR1 n48 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



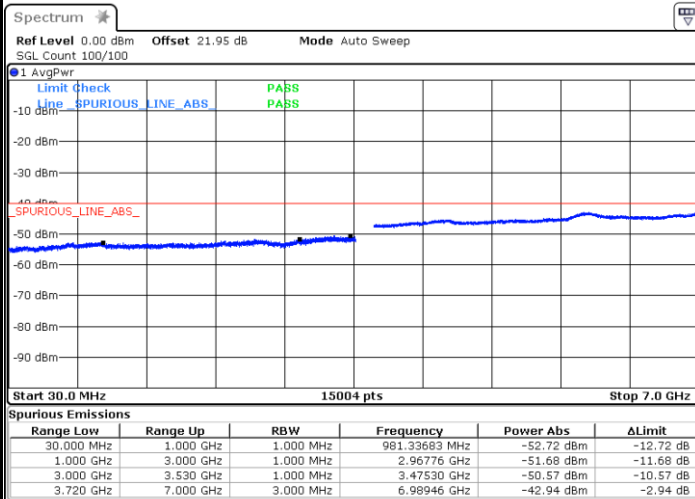
Date: 19.SEP.2022 14:13:54

Lowest Channel



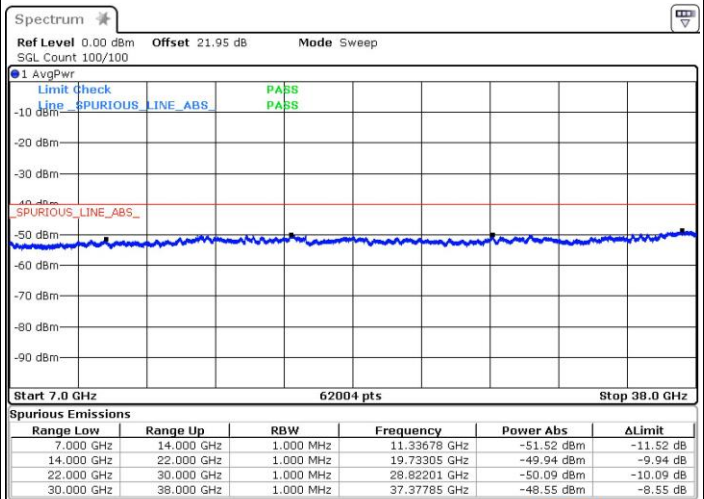
Date: 20.SEP.2022 08:56:14

Middle Channel



Date: 19.SEP.2022 14:15:25

Middle Channel



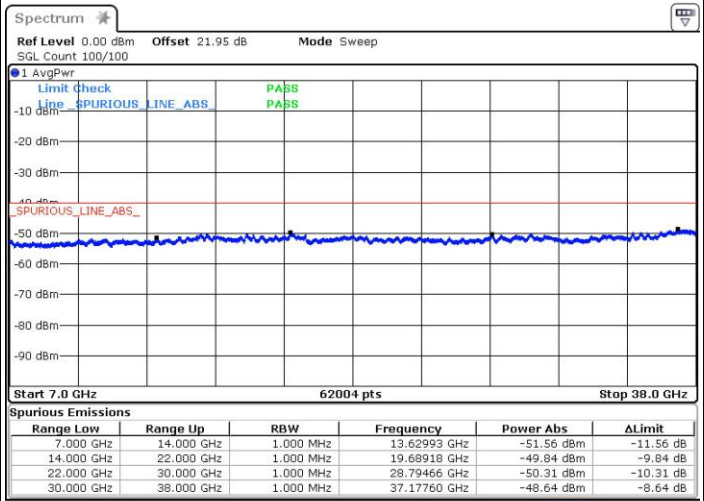
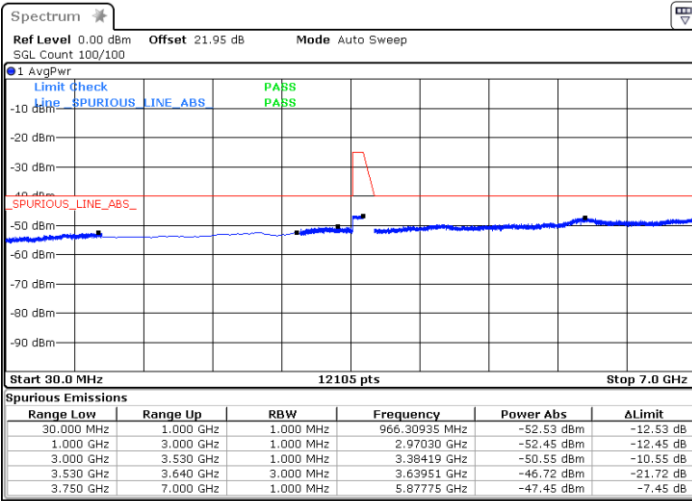
Date: 20.SEP.2022 09:00:28



FR1 n48 / 10MHz / CP OFDM / QPSK / 1RB1

Highest Channel

Highest Channel



Date: 19.SEP.2022 14:18:23

Date: 20.SEP.2022 09:02:52



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 1.
		Frequency Offset (Δf) (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0034	

Note:

- 1. Normal Voltage =48 V. ; Minimum Voltage =37 V. ; Maximum Voltage =57 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 2>

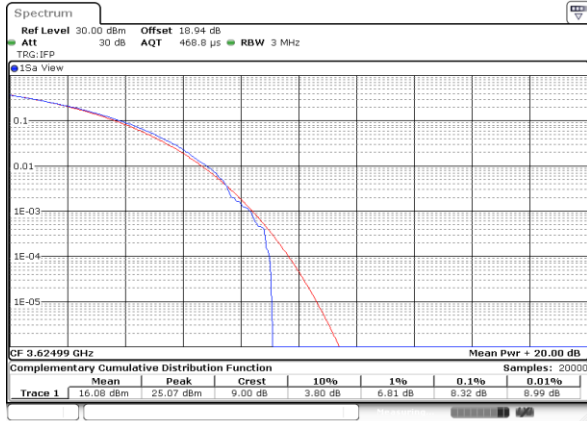
Peak-to-Average Ratio

Mode	FR1 n48 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	8.32	8.64	7.94	8.20	PASS



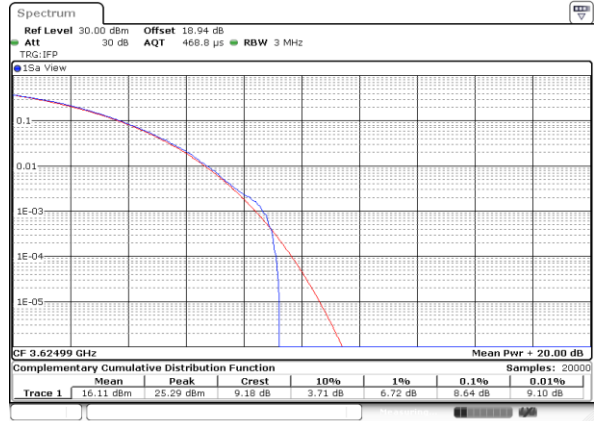
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



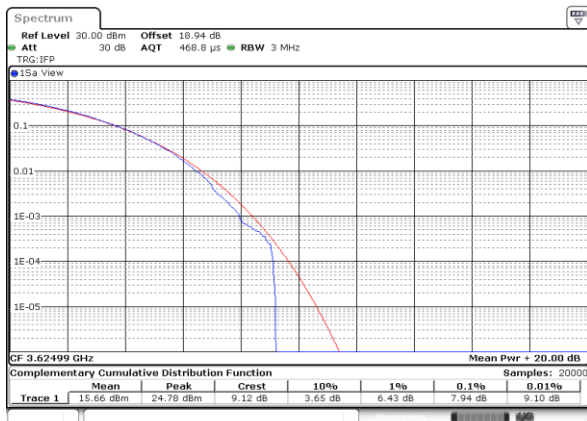
Date: 22.AUG.2022 15:11:16

16QAM



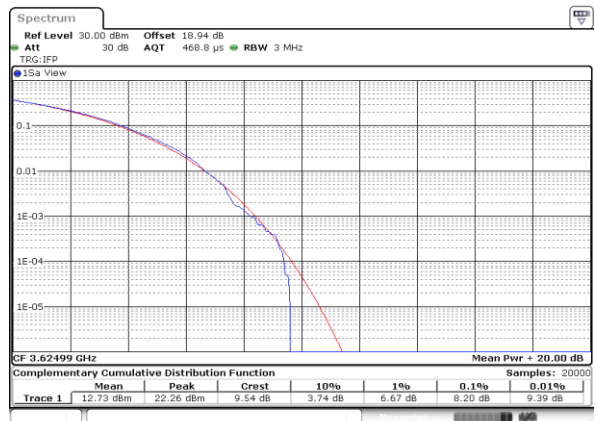
Date: 22.AUG.2022 15:11:58

64QAM



Date: 22.AUG.2022 15:12:44

256QAM



Date: 22.AUG.2022 15:14:29



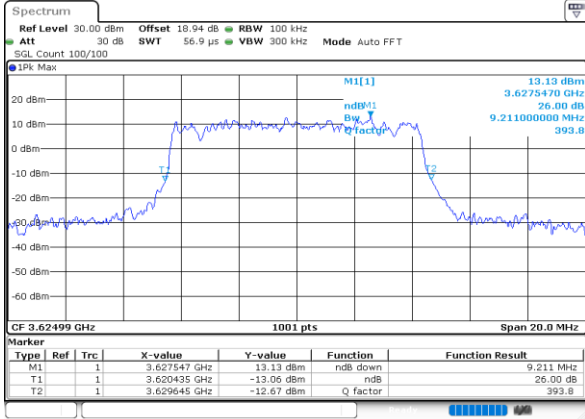
26dB Bandwidth

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.21	9.35	19.10	19.46	29.13	28.83	40.44	40.28
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.09	9.37	19.50	19.14	28.77	28.89	40.44	40.36



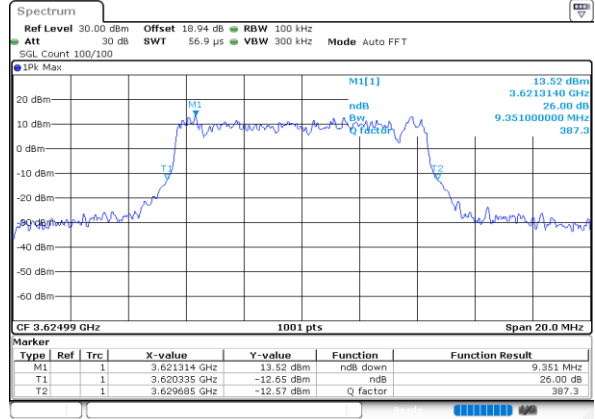
FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



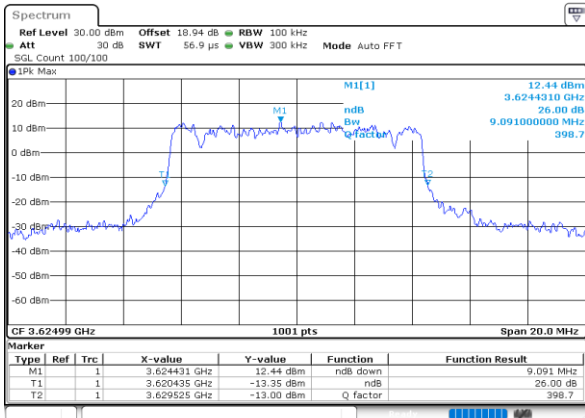
Date: 22.AUG.2022 15:26:37

16QAM



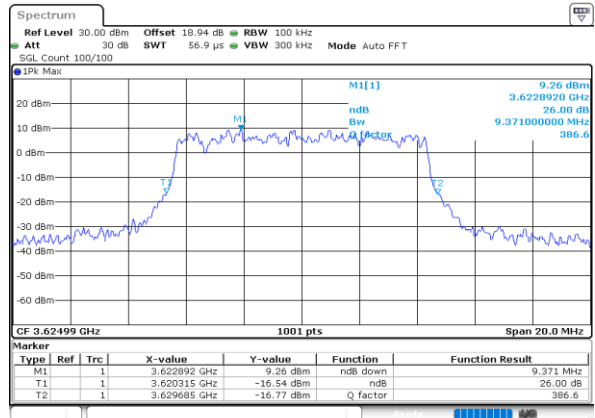
Date: 22.AUG.2022 15:27:28

64QAM



Date: 22.AUG.2022 15:28:26

256QAM

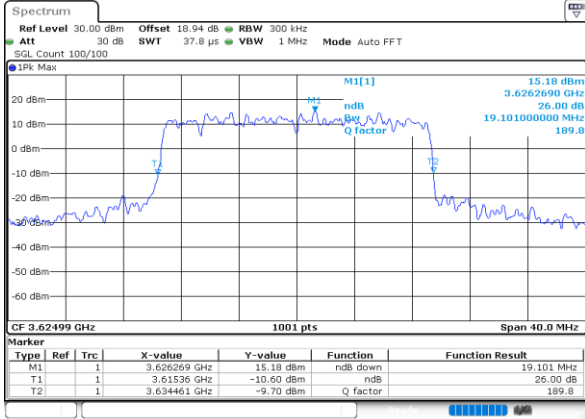


Date: 22.AUG.2022 15:25:43



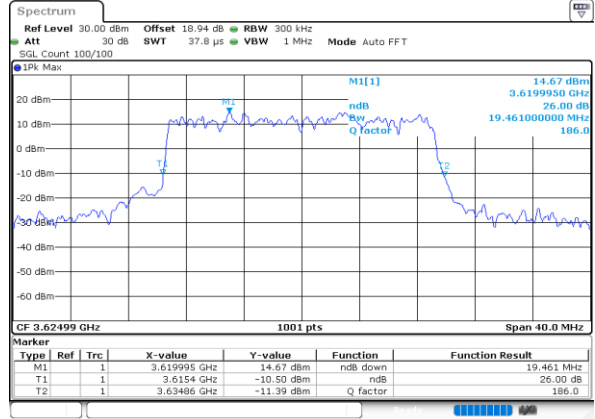
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



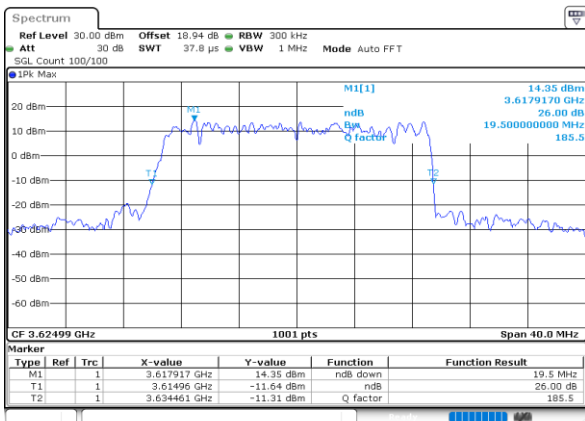
Date: 22.AUG.2022 15:18:38

16QAM



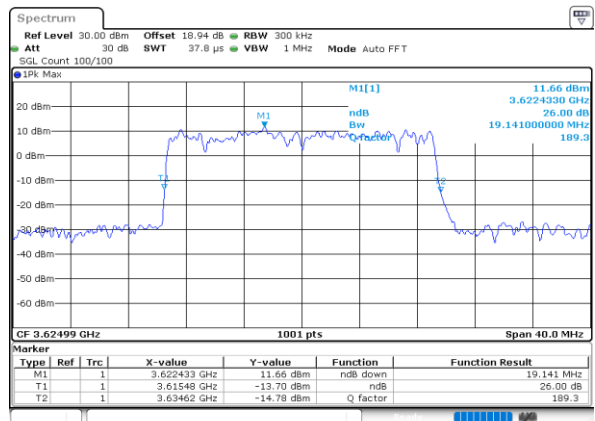
Date: 22.AUG.2022 15:19:25

64QAM



Date: 22.AUG.2022 15:20:17

256QAM

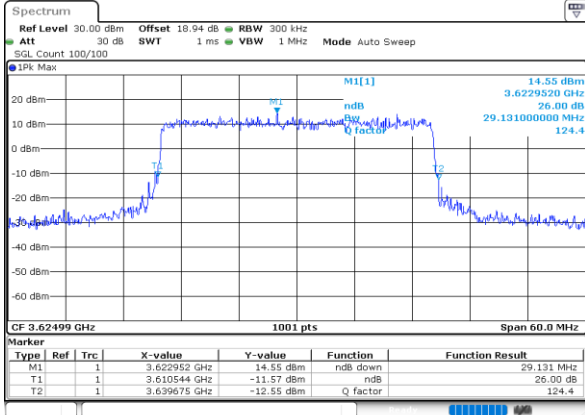


Date: 22.AUG.2022 15:17:41

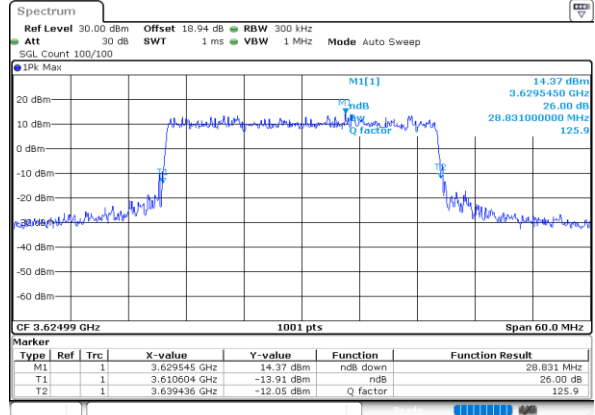


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

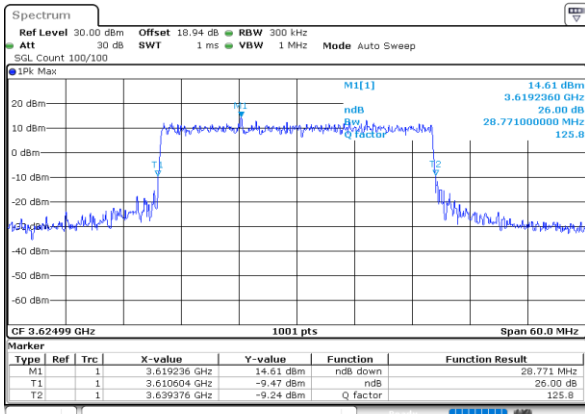
QPSK



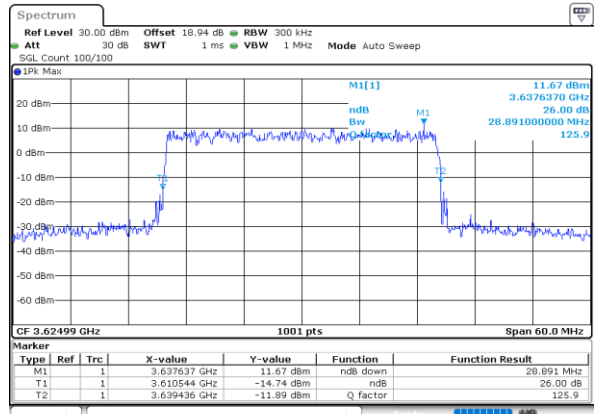
16QAM



64QAM



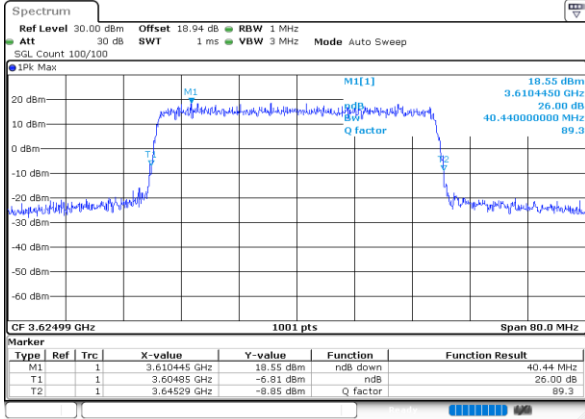
256QAM





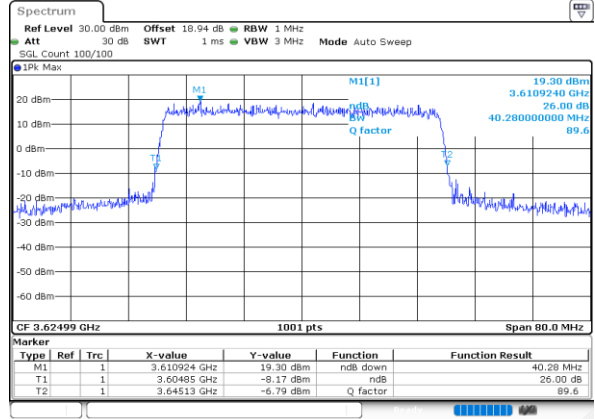
FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



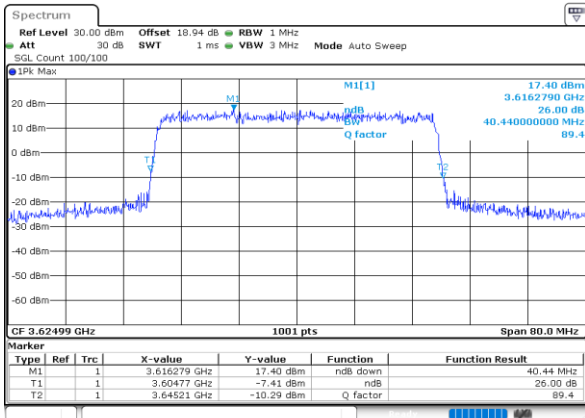
Date: 22.AUG.2022 15:22:04

16QAM



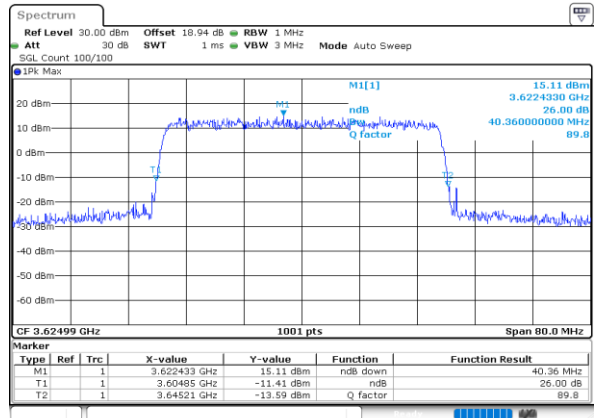
Date: 22.AUG.2022 15:22:59

64QAM



Date: 22.AUG.2022 15:23:50

256QAM



Date: 22.AUG.2022 15:24:37



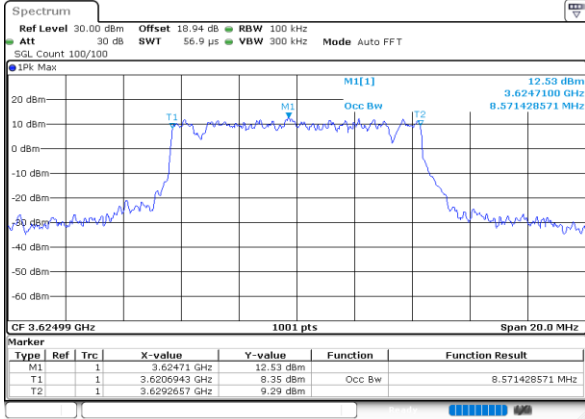
Occupied Bandwidth

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.57	8.61	18.14	18.30	27.75	27.81	37.96	37.96
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.63	8.57	18.30	18.30	27.87	27.81	38.12	38.04



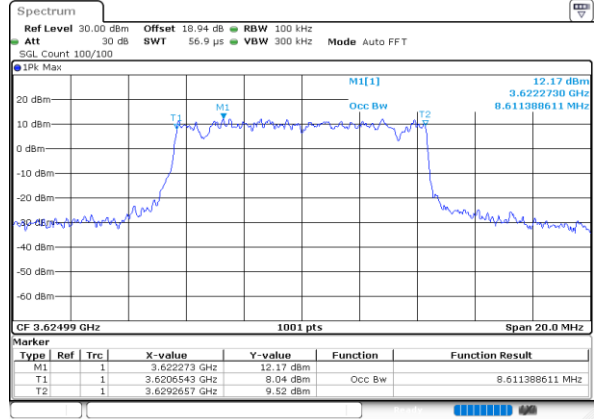
FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



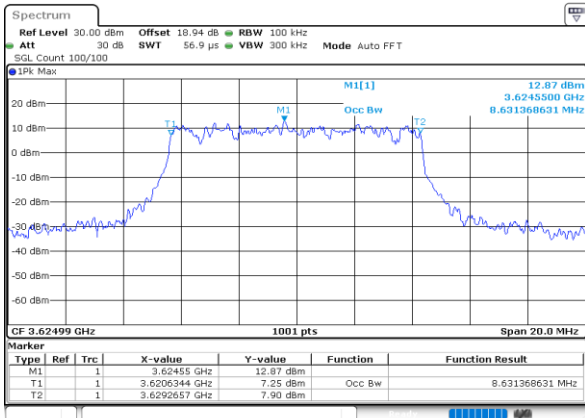
Date: 22.AUG.2022 15:26:23

16QAM



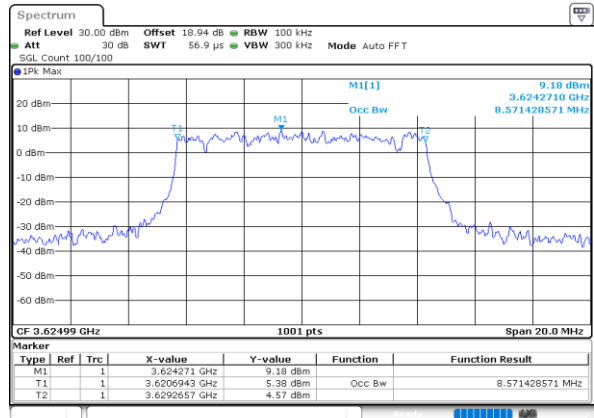
Date: 22.AUG.2022 15:27:14

64QAM



Date: 22.AUG.2022 15:28:02

256QAM

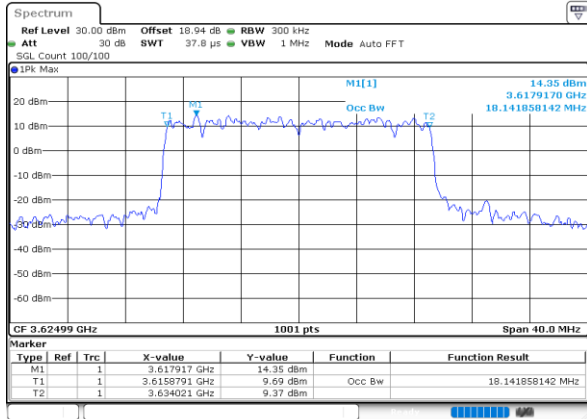


Date: 22.AUG.2022 15:25:29



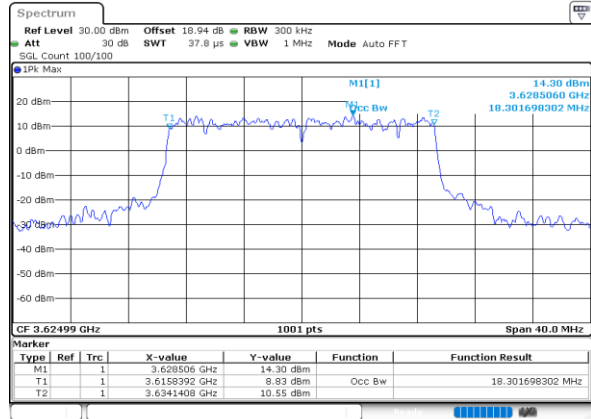
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



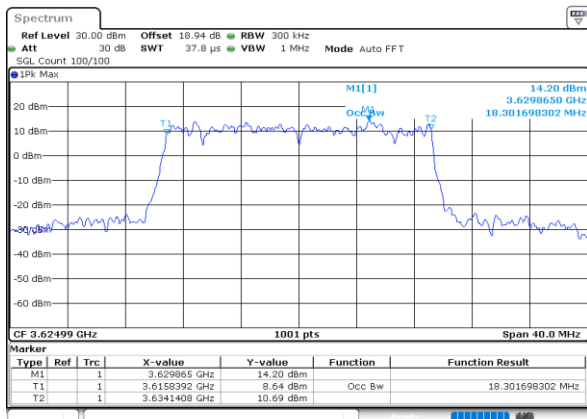
Date: 22.AUG.2022 15:18:20

16QAM



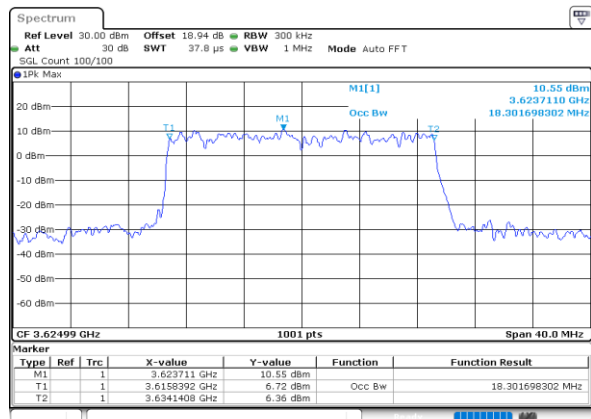
Date: 22.AUG.2022 15:19:10

64QAM



Date: 22.AUG.2022 15:19:50

256QAM

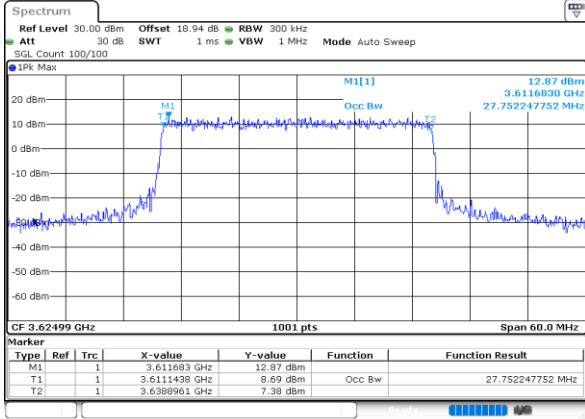


Date: 22.AUG.2022 15:17:18



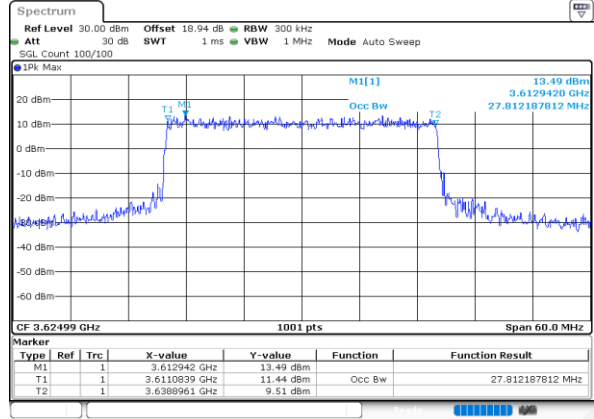
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



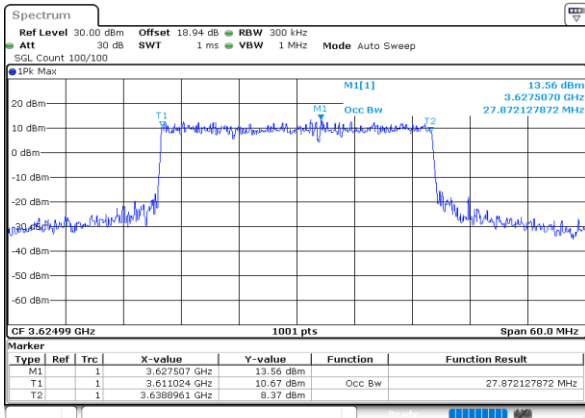
Date: 24.AUG.2022 14:44:17

16QAM



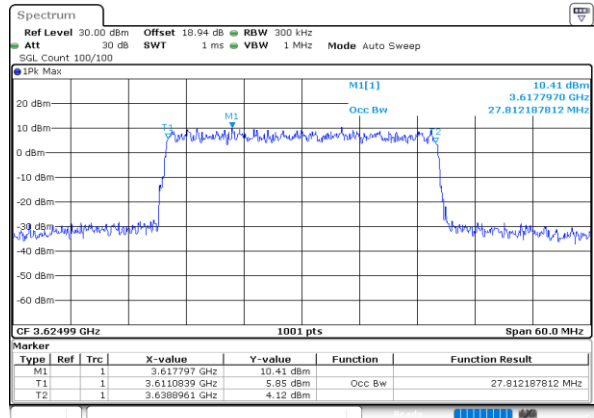
Date: 24.AUG.2022 14:51:12

64QAM



Date: 24.AUG.2022 14:52:50

256QAM

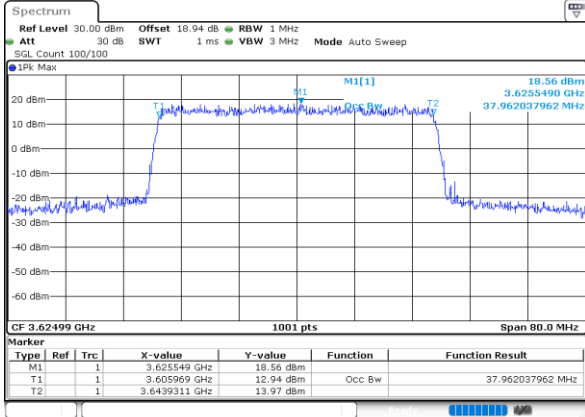


Date: 24.AUG.2022 14:56:02



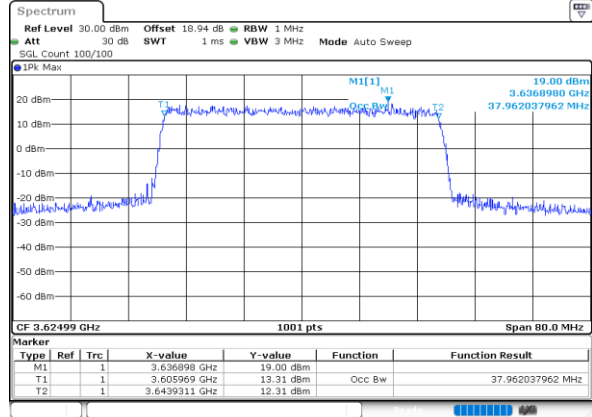
FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



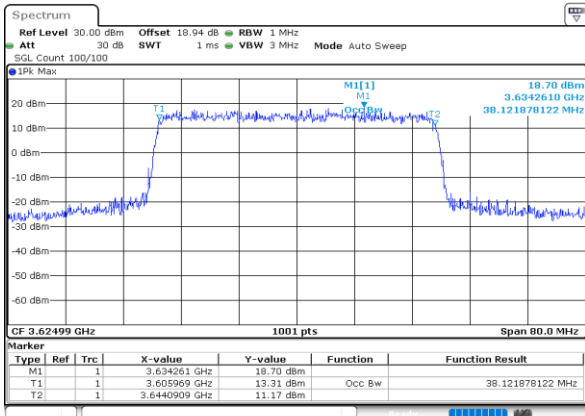
Date: 22.AUG.2022 15:21:04

16QAM



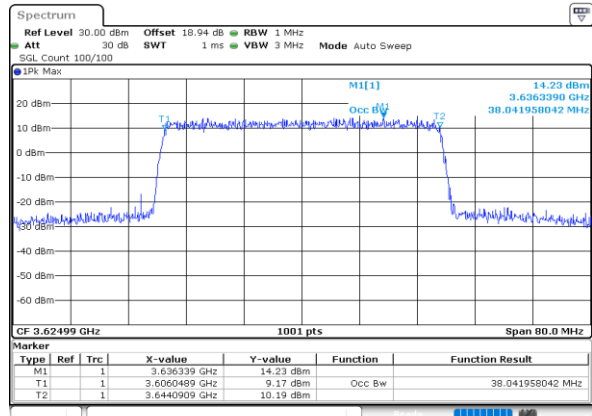
Date: 22.AUG.2022 15:22:43

64QAM



Date: 22.AUG.2022 15:23:35

256QAM



Date: 22.AUG.2022 15:24:22



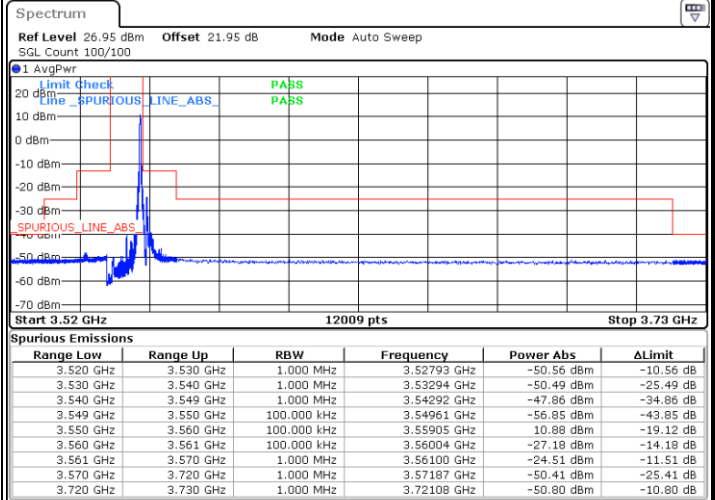
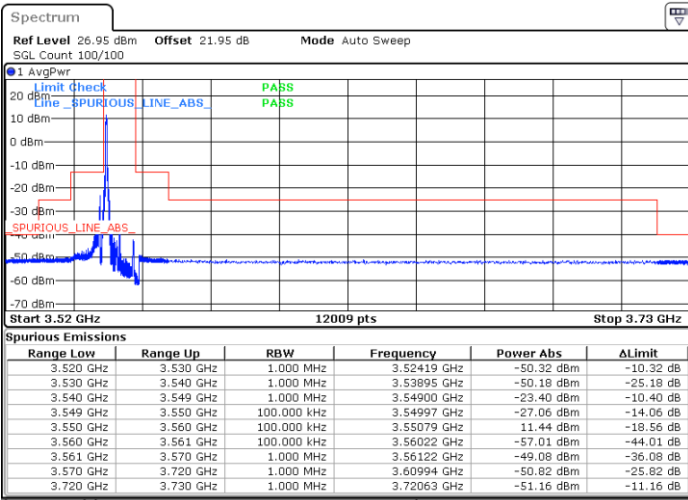
Unwanted Emission (MASK)

FR1 n48 / 10MHz / CP OFDM / QPSK

Lowest Channel

1RB0

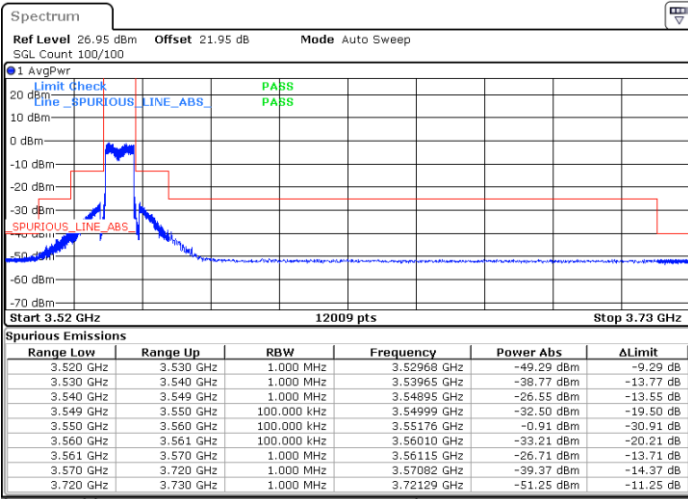
1RBmax



Date: 20.SEP.2022 10:16:19

Date: 20.SEP.2022 10:27:19

Full RB



Date: 20.SEP.2022 10:37:12

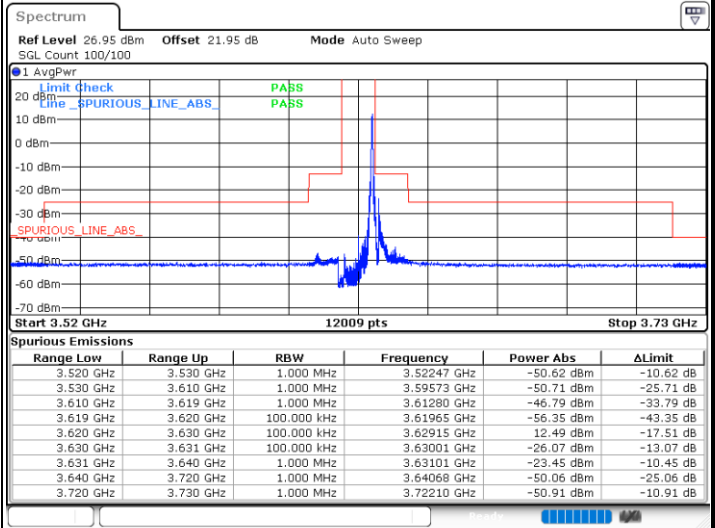
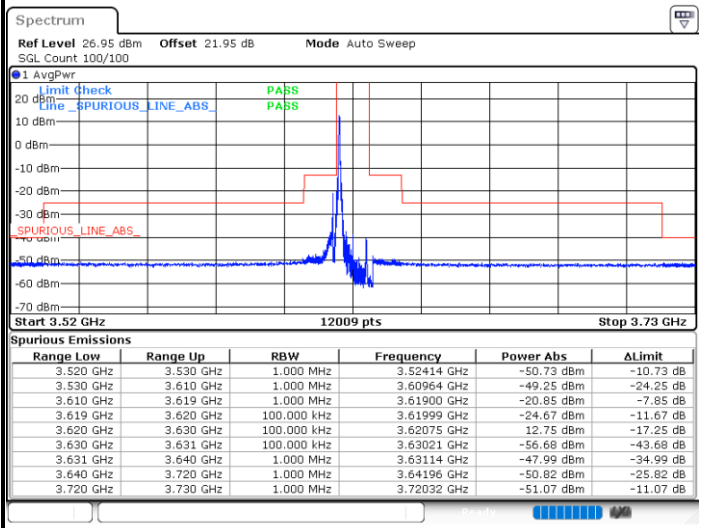


FR1 n48 / 10MHz / CP OFDM / QPSK

Middle Channel

1RB0

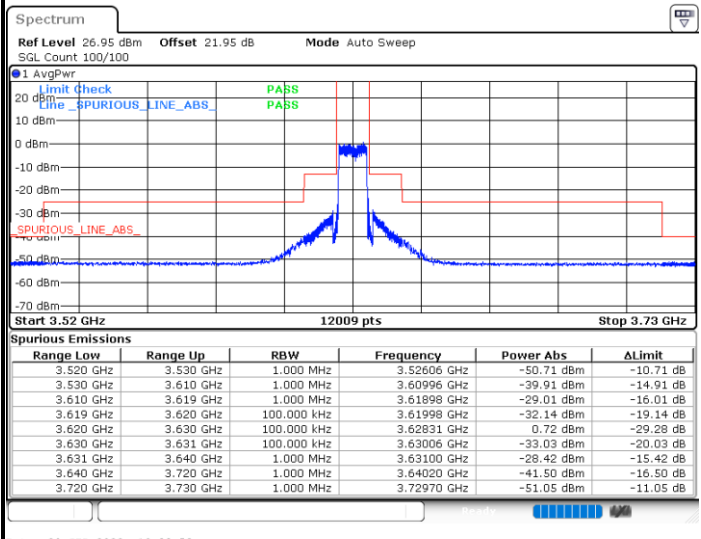
1RBmax



Date: 20.SEP.2022 10:20:59

Date: 20.SEP.2022 10:29:53

Full RB



Date: 20.SEP.2022 10:39:53

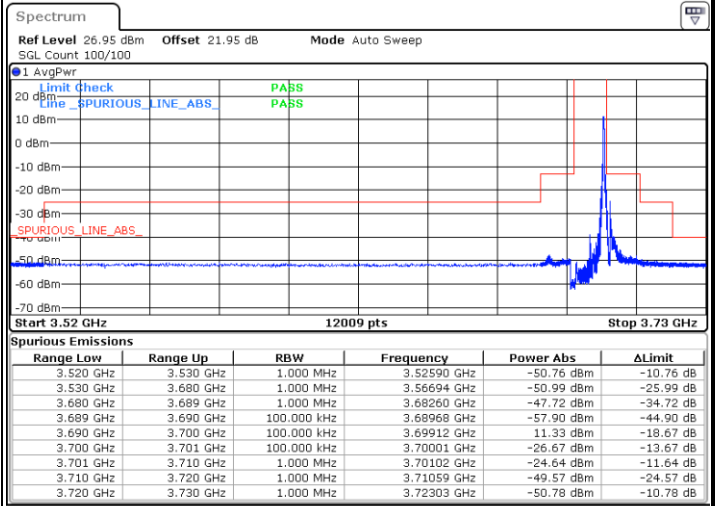
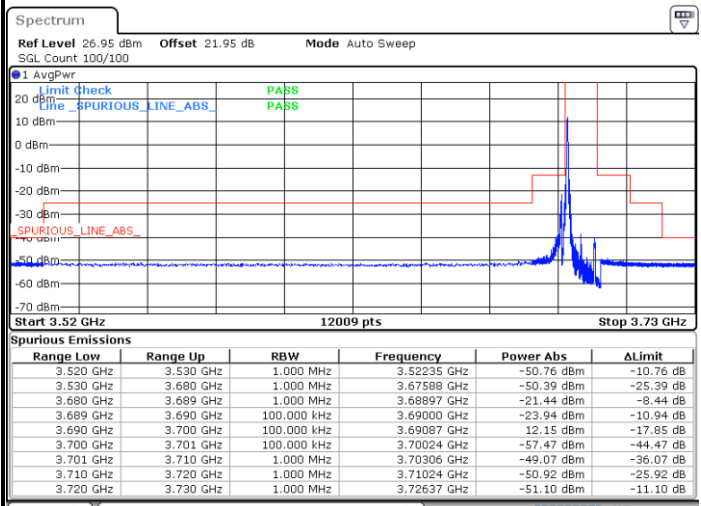


FR1 n48 / 10MHz / CP OFDM / QPSK

Highest Channel

1RB0

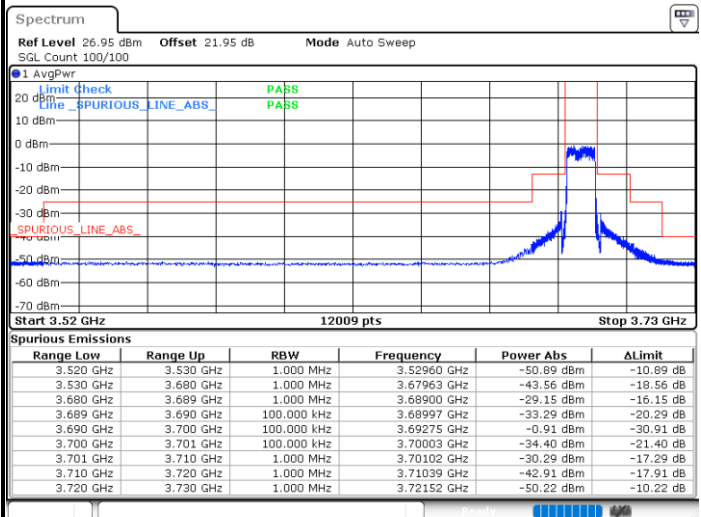
1RBmax



Date: 20.SEP.2022 10:24:21

Date: 20.SEP.2022 10:33:28

Full RB



Date: 20.SEP.2022 10:43:15

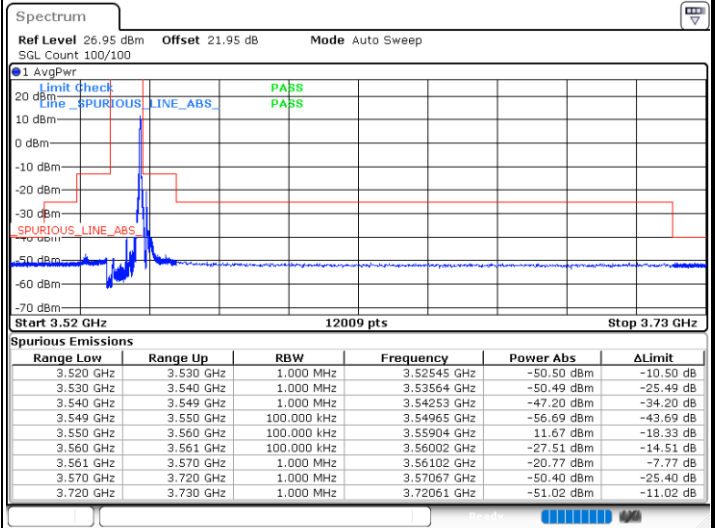
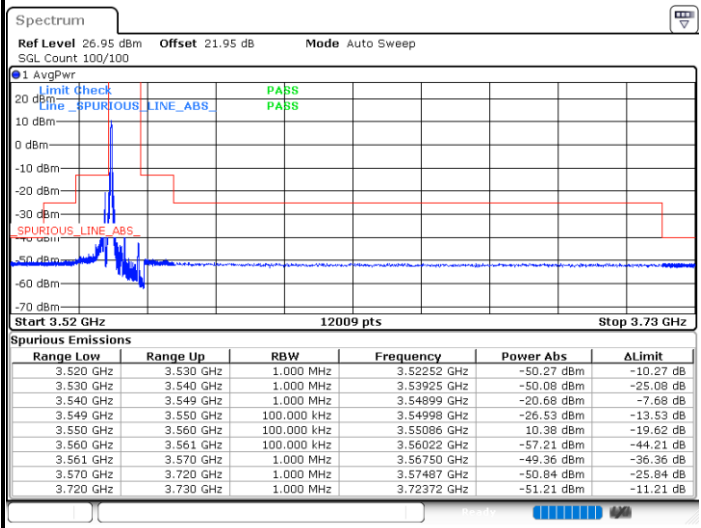


FR1 n48 / 10MHz / CP OFDM / 16QAM

Lowest Channel

1RB0

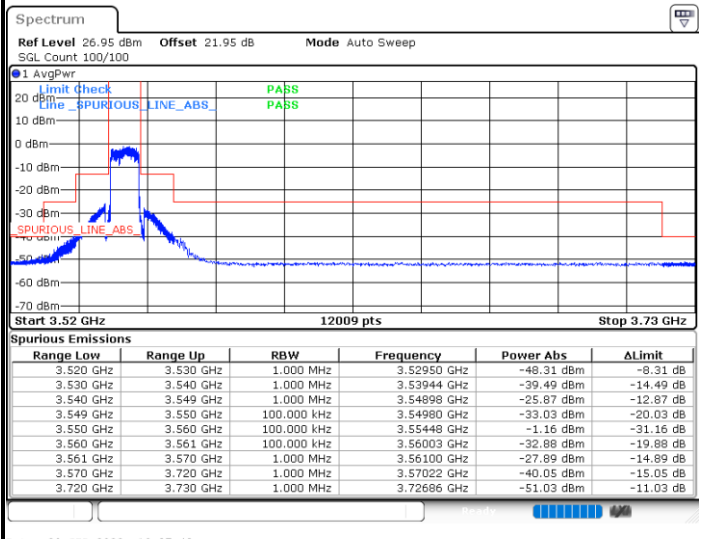
1RBmax



Date: 20.SEP.2022 10:16:52

Date: 20.SEP.2022 10:27:58

Full RB



Date: 20.SEP.2022 10:37:49

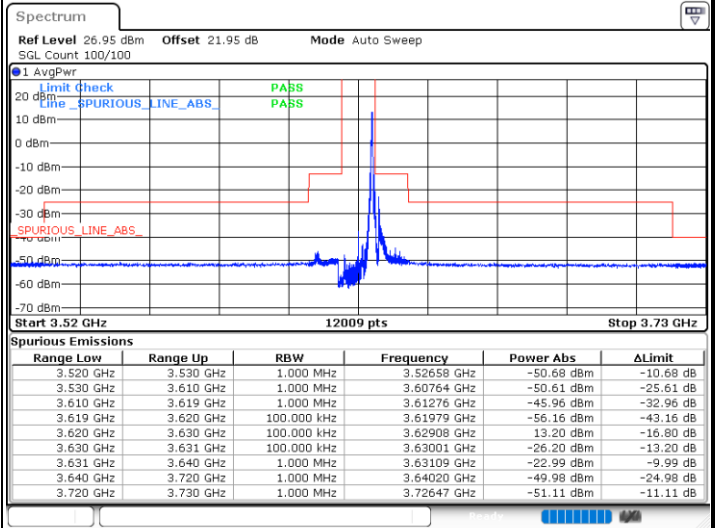
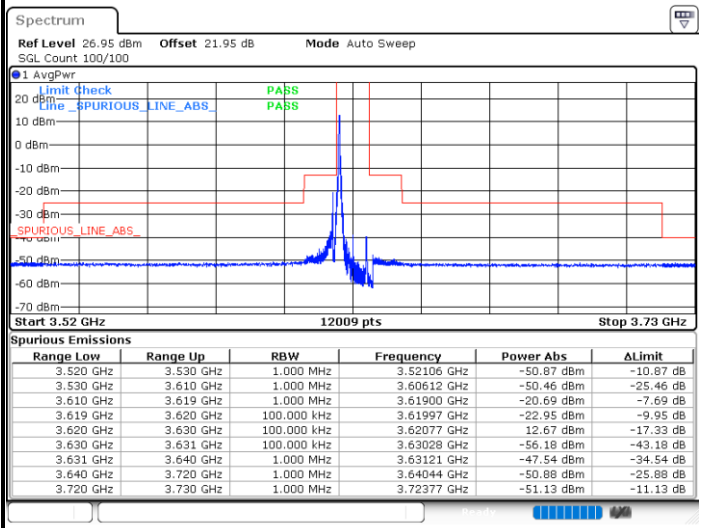


FR1 n48 / 10MHz / CP OFDM / 16QAM

Middle Channel

1RB0

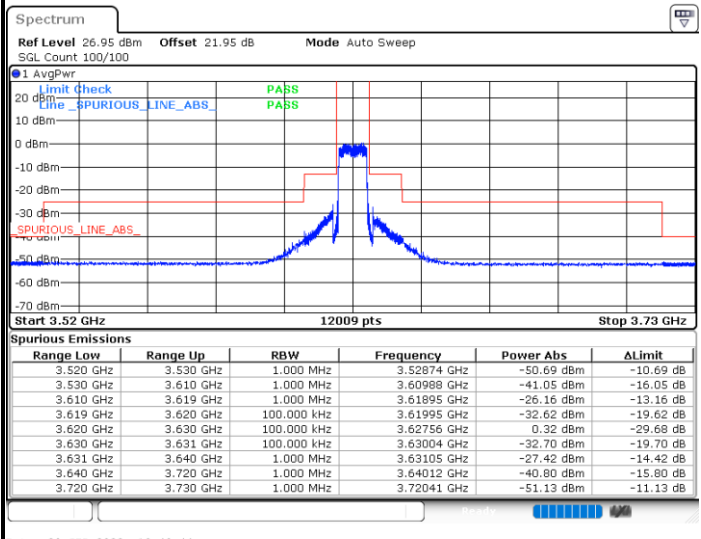
1RBmax



Date: 20.SEP.2022 10:21:55

Date: 20.SEP.2022 10:31:03

Full RB



Date: 20.SEP.2022 10:40:44

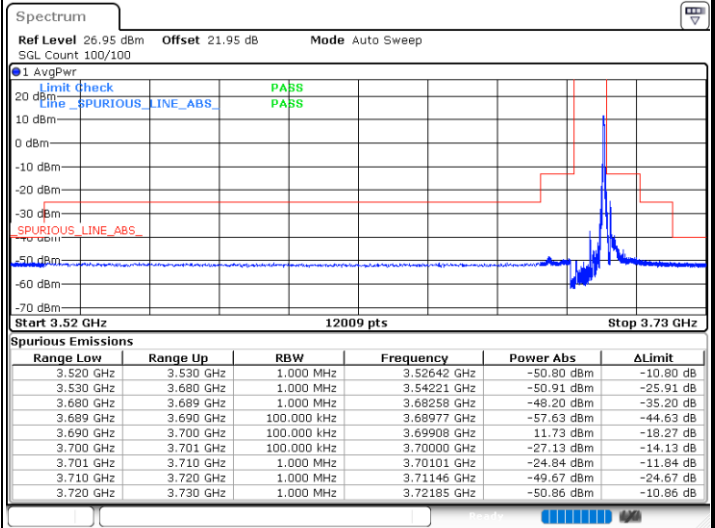
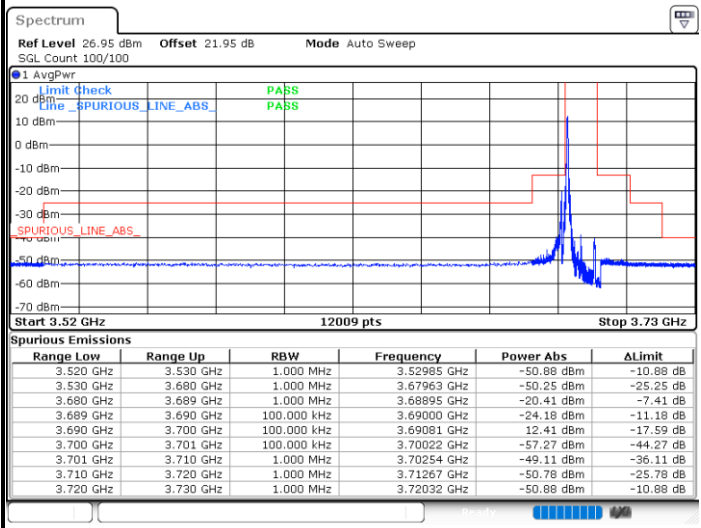


FR1 n48 / 10MHz / CP OFDM / 16QAM

Highest Channel

1RB0

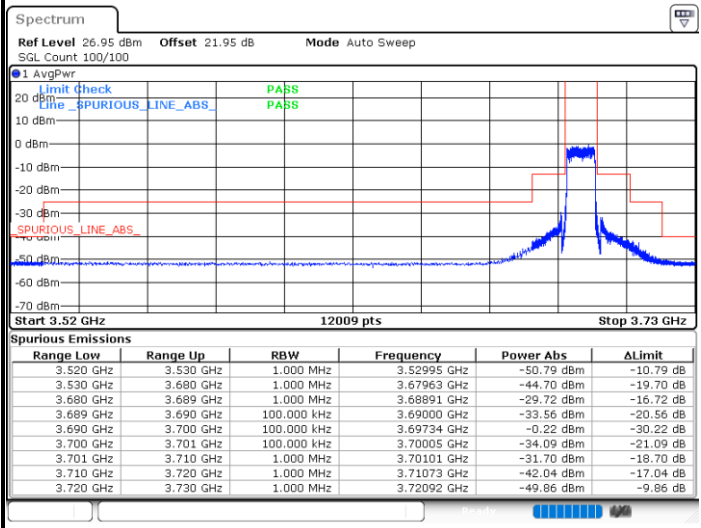
1RBmax



Date: 20.SEP.2022 10:25:00

Date: 20.SEP.2022 10:34:05

Full RB



Date: 20.SEP.2022 10:43:52

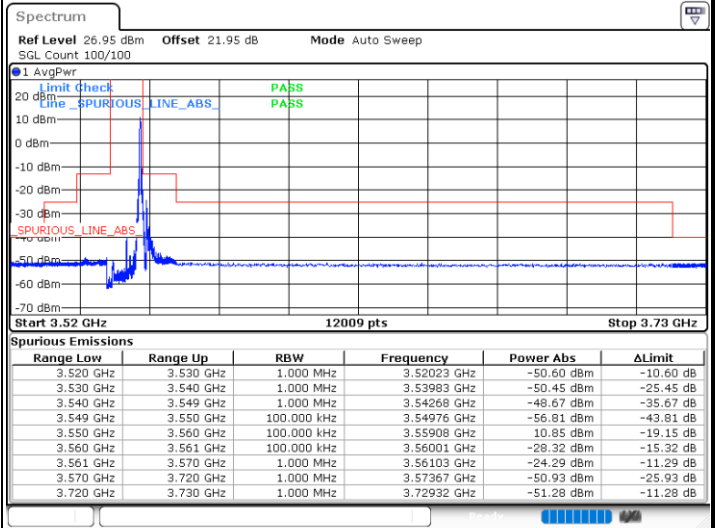
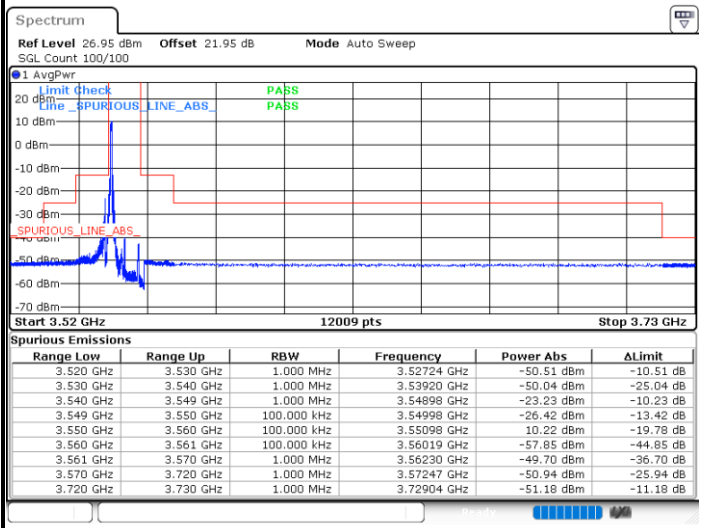


FR1 n48 / 10MHz / CP OFDM / 64QAM

Lowest Channel

1RB0

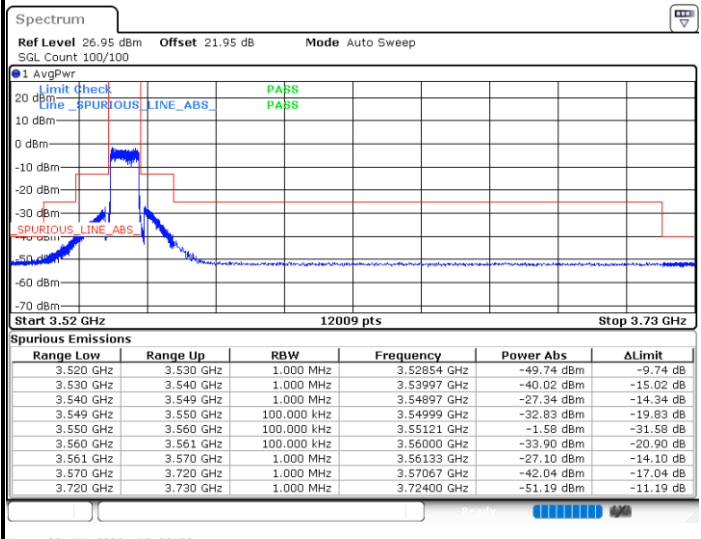
1RBmax



Date: 20.SEP.2022 10:17:35

Date: 20.SEP.2022 10:28:38

Full RB



Date: 20.SEP.2022 10:38:23

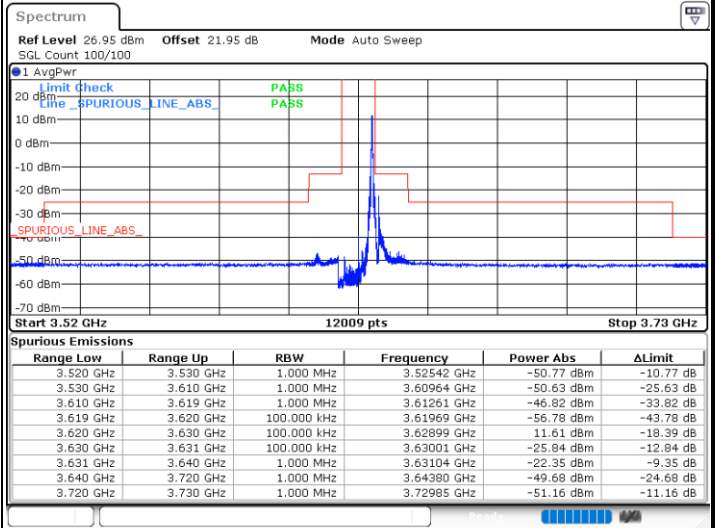
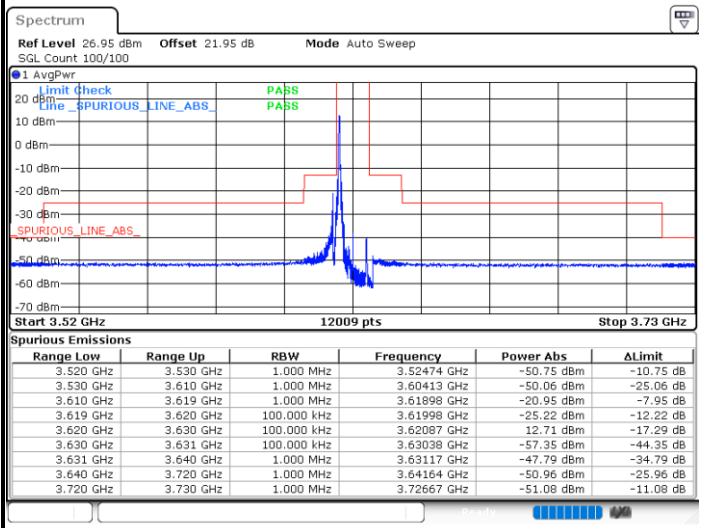


FR1 n48 / 10MHz / CP OFDM / 64QAM

Middle Channel

1RB0

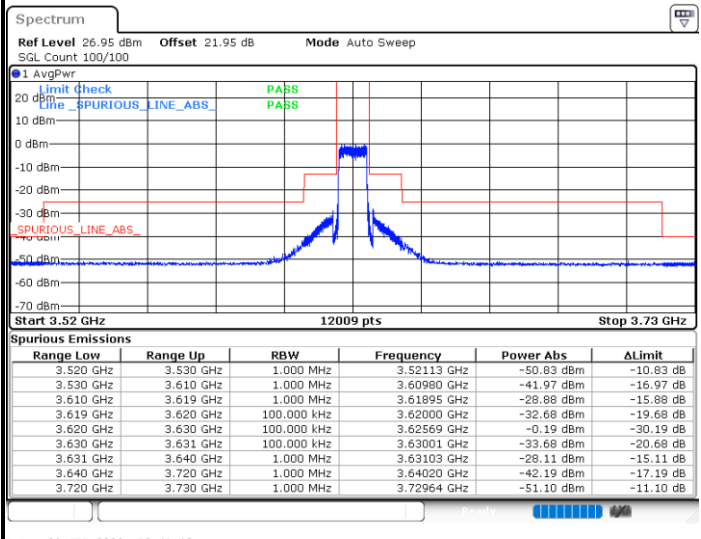
1RBmax



Date: 20.SEP.2022 10:22:52

Date: 20.SEP.2022 10:31:53

Full RB



Date: 20.SEP.2022 10:41:13

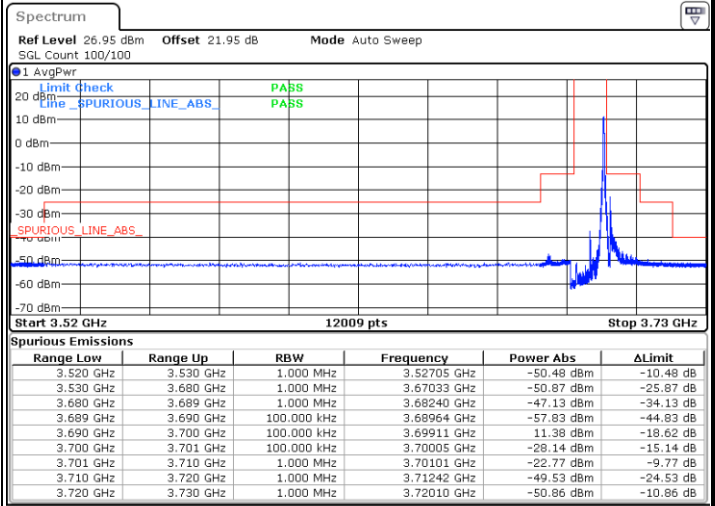
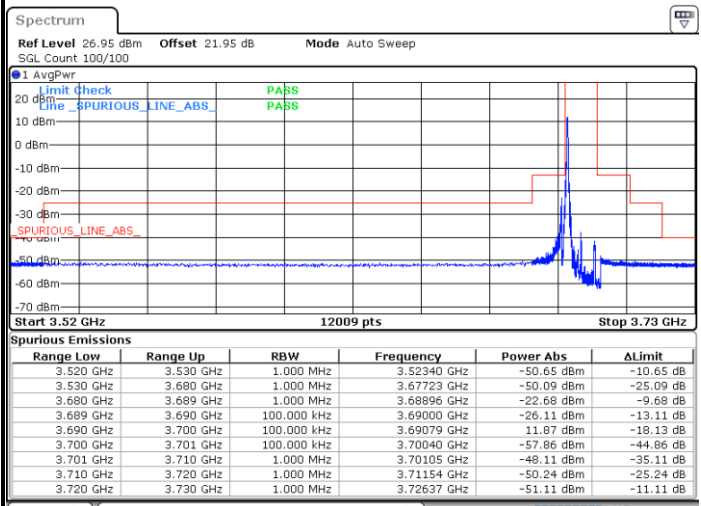


FR1 n48 / 10MHz / CP OFDM / 64QAM

Highest Channel

1RB0

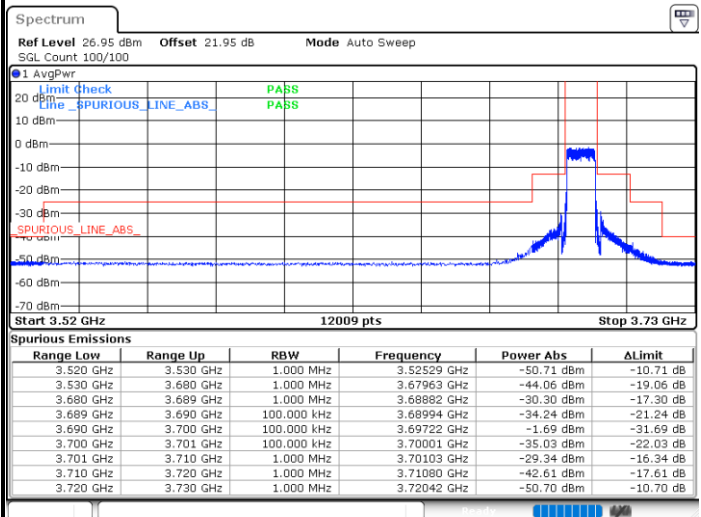
1RBmax



Date: 20.SEP.2022 10:25:31

Date: 20.SEP.2022 10:34:40

Full RB



Date: 20.SEP.2022 10:44:30

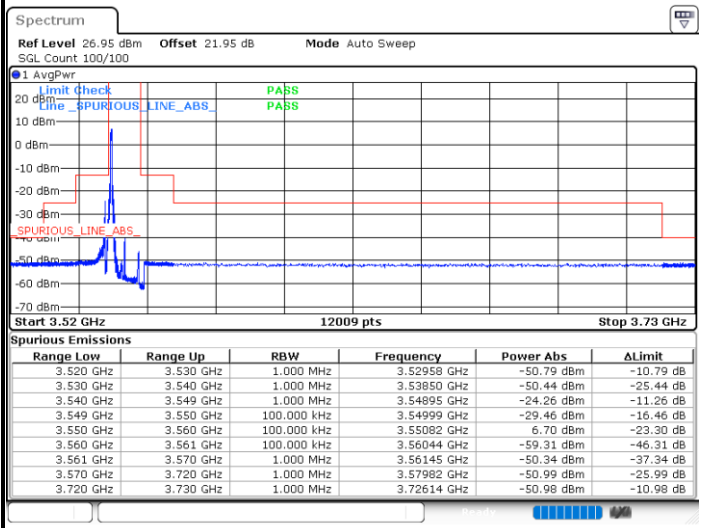


FR1 n48 / 10MHz / CP OFDM / 256QAM

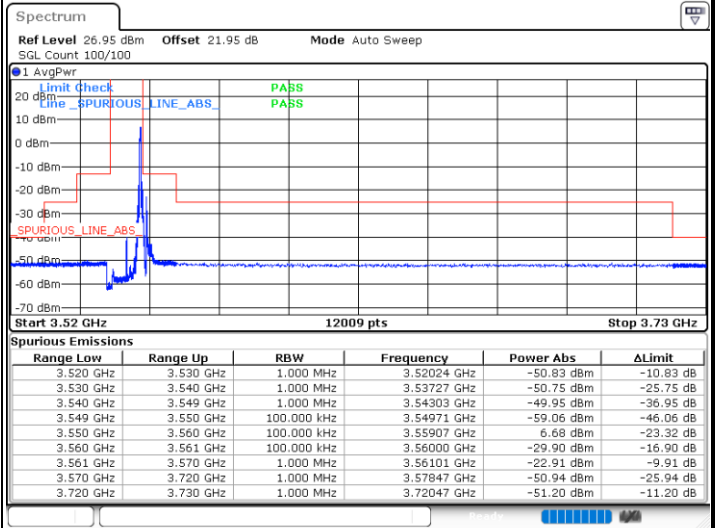
Lowest Channel

1RB0

1RBmax

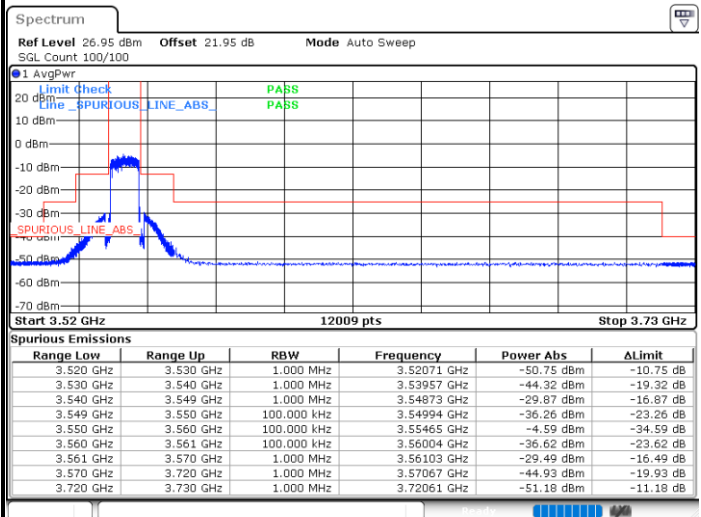


Date: 20.SEP.2022 10:19:14



Date: 20.SEP.2022 10:29:07

Full RB



Date: 20.SEP.2022 10:39:11

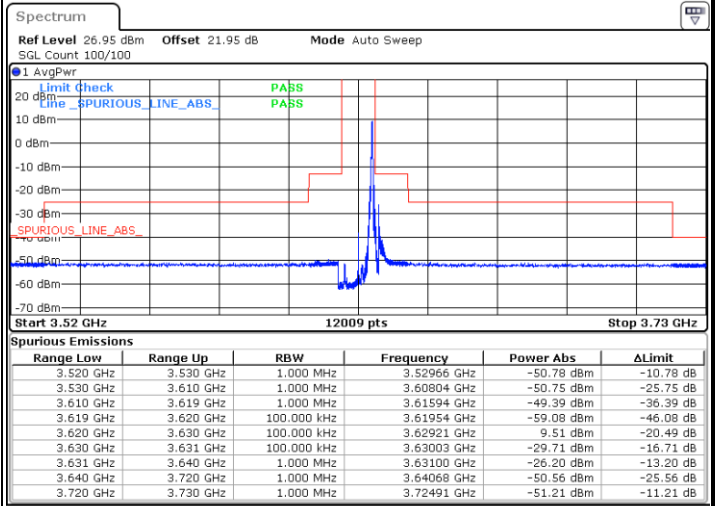
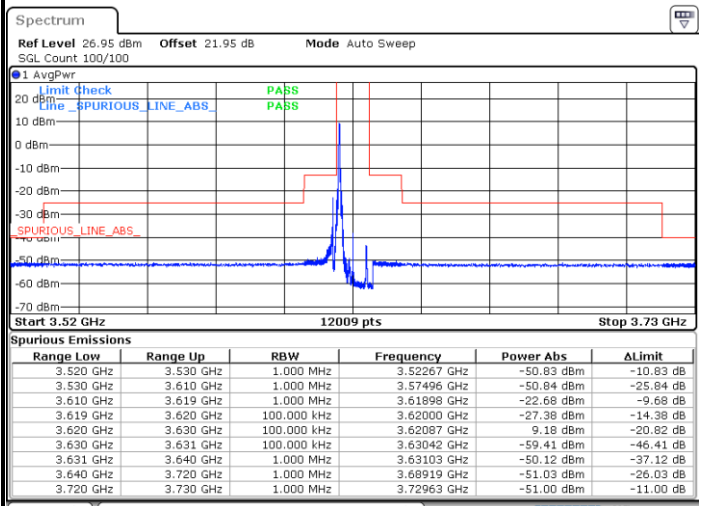


FR1 n48 / 10MHz / CP OFDM / 256QAM

Middle Channel

1RB0

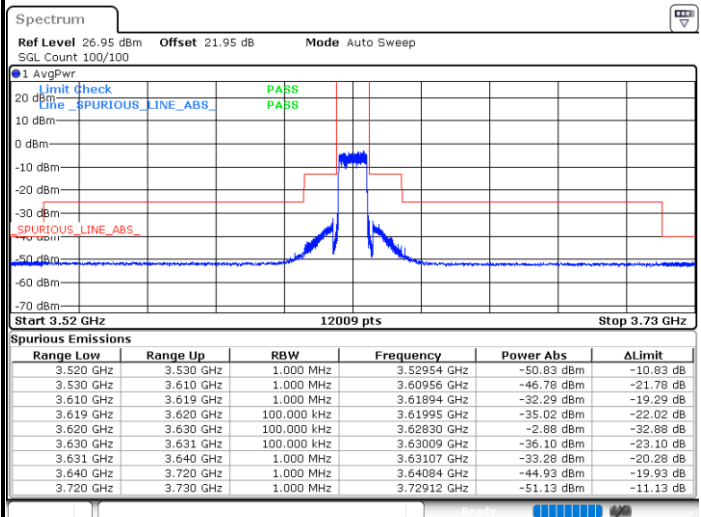
1RBmax



Date: 20.SEP.2022 10:23:24

Date: 20.SEP.2022 10:32:30

Full RB



Date: 20.SEP.2022 10:41:46

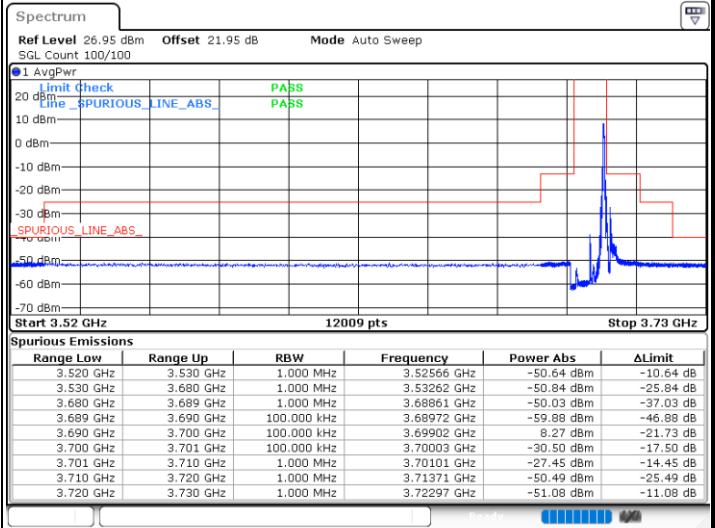
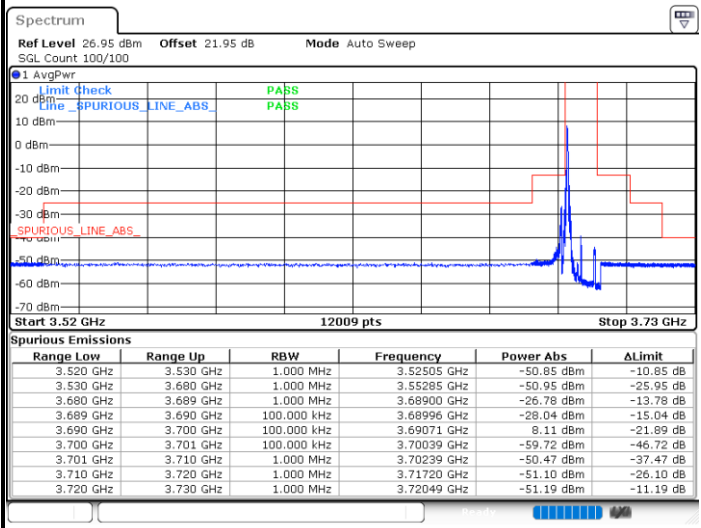


FR1 n48 / 10MHz / CP OFDM / 256QAM

Highest Channel

1RB0

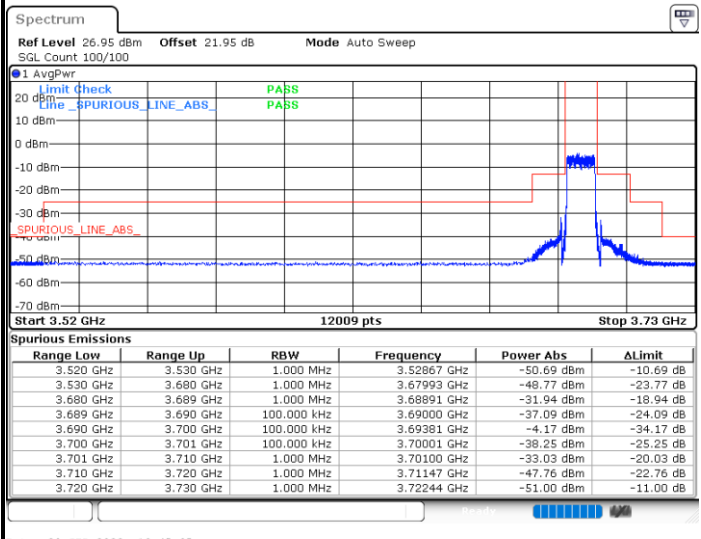
1RBmax



Date: 20.SEP.2022 10:26:29

Date: 20.SEP.2022 10:35:29

Full RB



Date: 20.SEP.2022 10:45:05

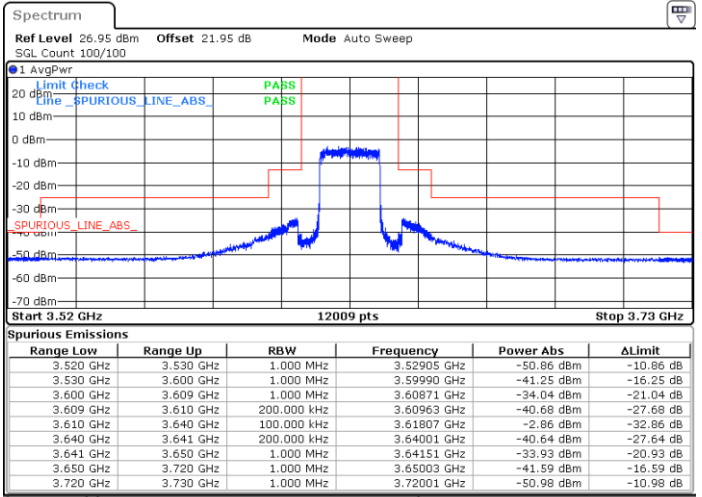
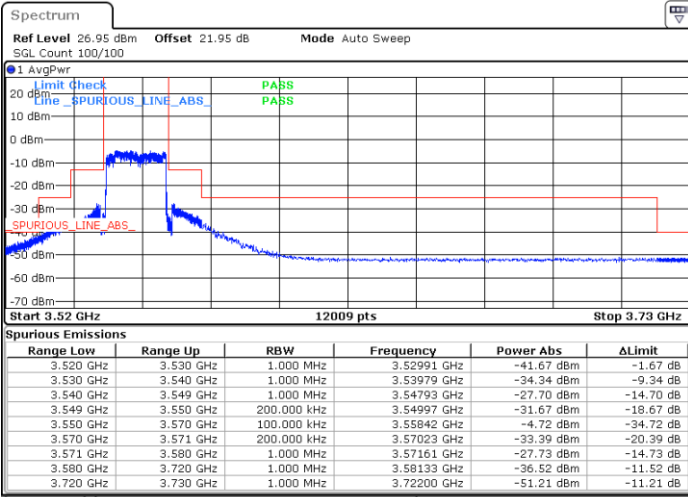


FR1 n48 / 20MHz / CP OFDM / QPSK

Full RB

Lowest Channel

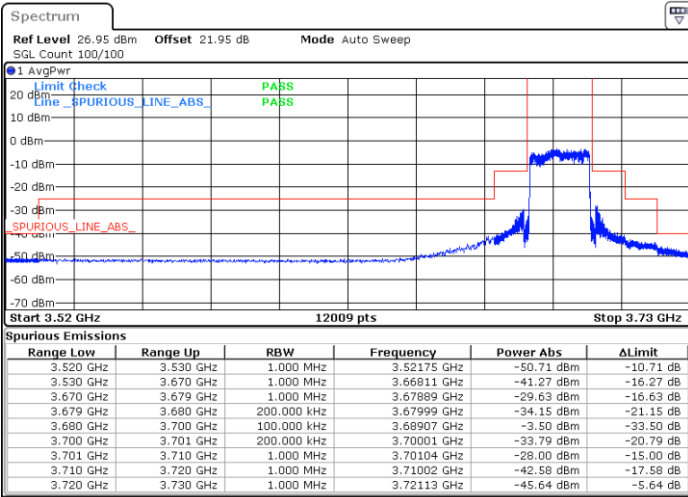
Middle Channel



Date: 20.SEP.2022 11:30:05

Date: 20.SEP.2022 11:32:43

Highest Channel



Date: 20.SEP.2022 11:36:11