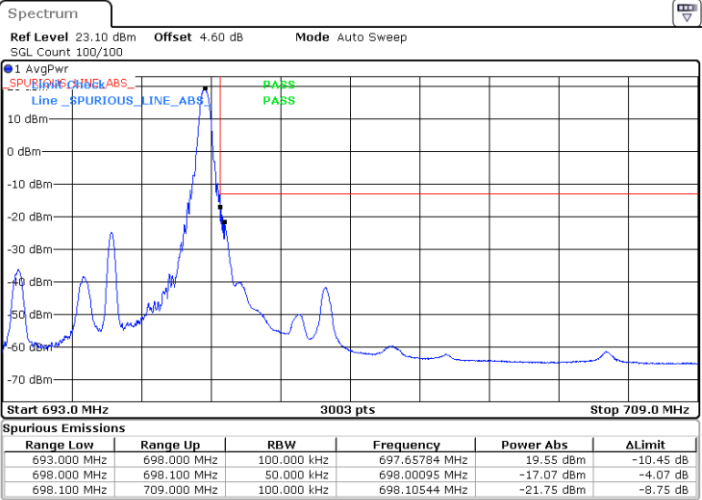
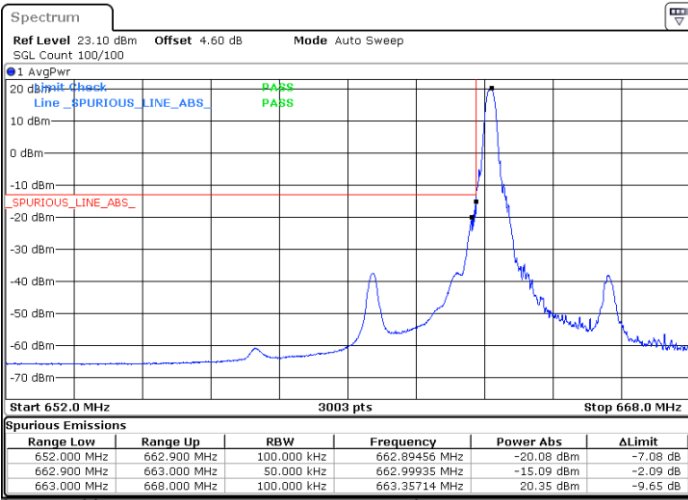




FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

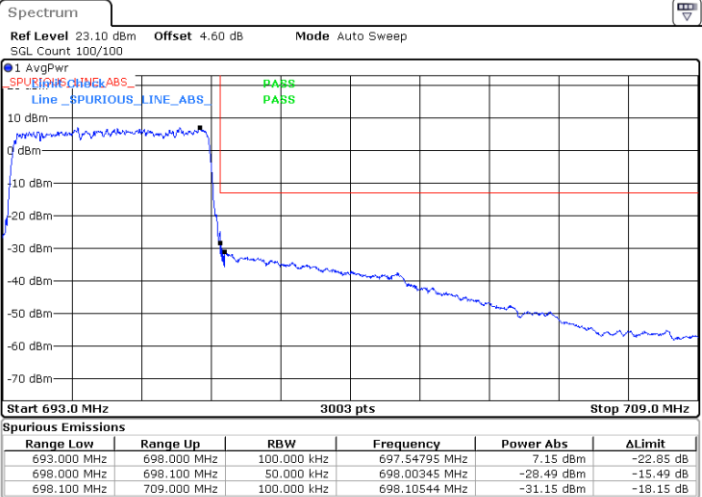
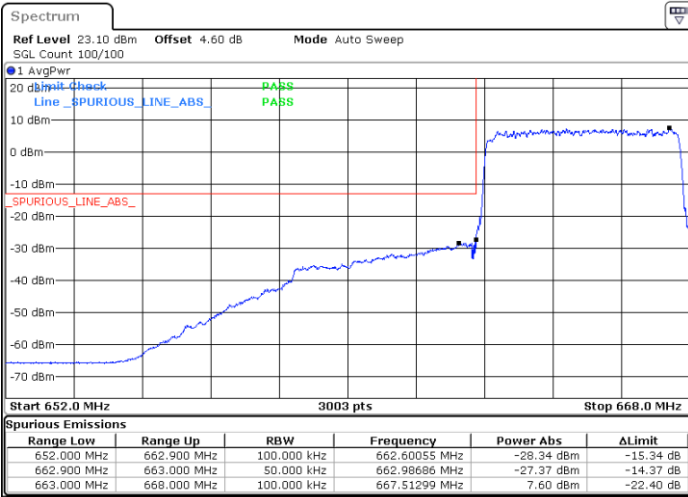


Date: 27.MAY.2022 07:39:22

Date: 27.MAY.2022 07:53:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAY.2022 07:32:24

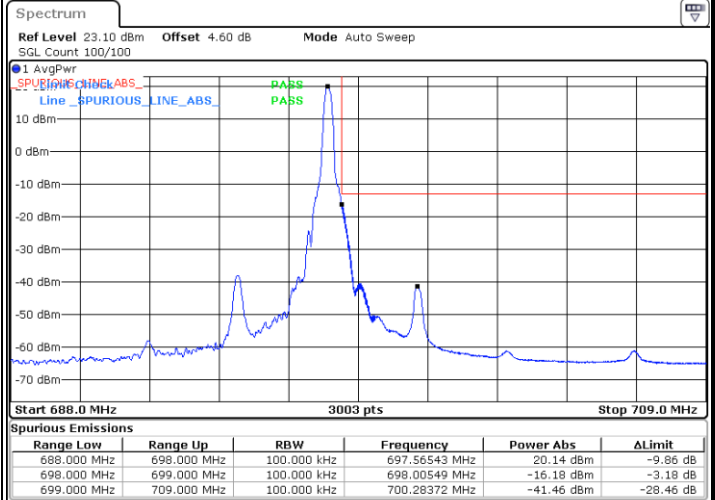
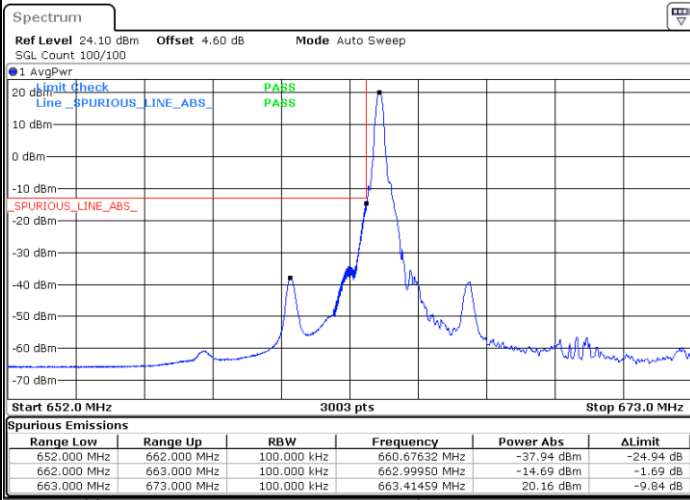
Date: 27.MAY.2022 07:46:10



FR1 n71 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

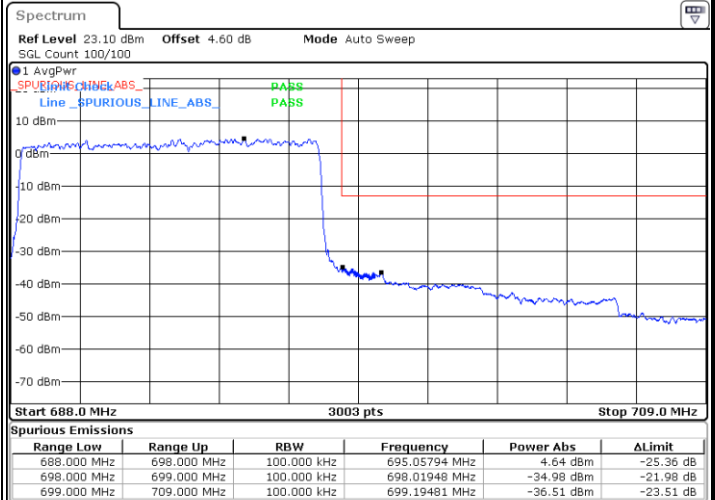
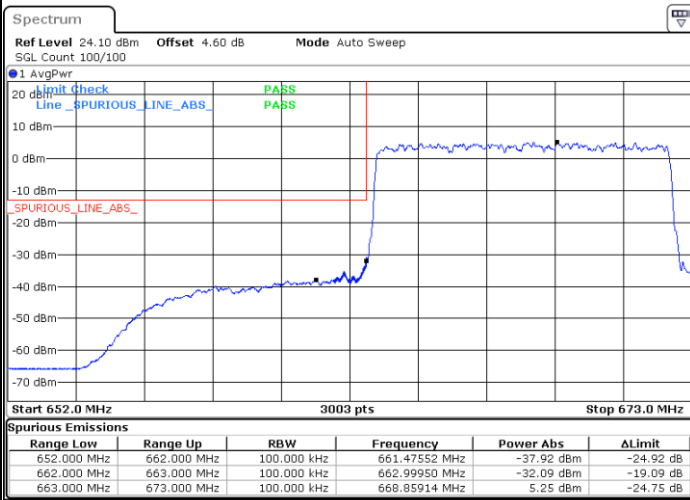


Date: 27.MAY.2022 08:15:56

Date: 27.MAY.2022 08:40:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAY.2022 08:02:01

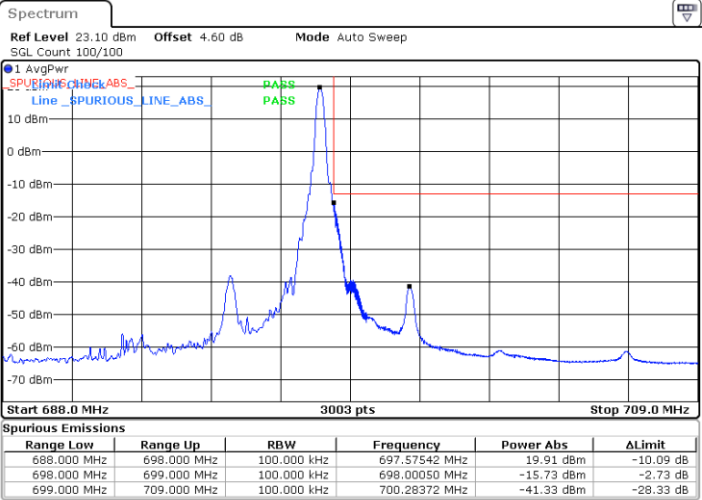
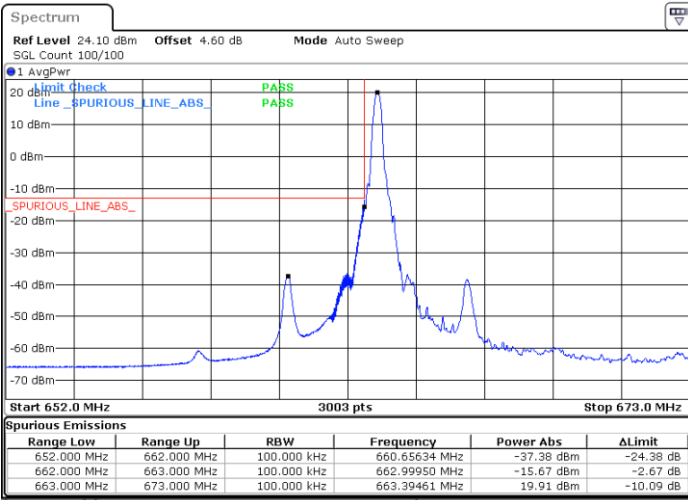
Date: 27.MAY.2022 08:29:43



FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

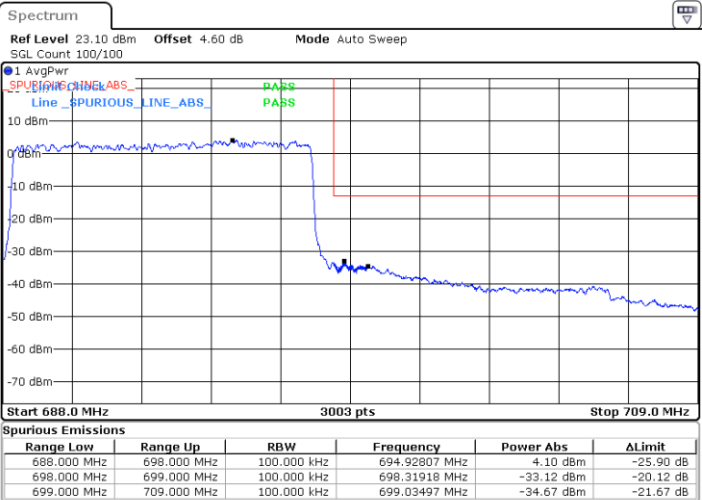
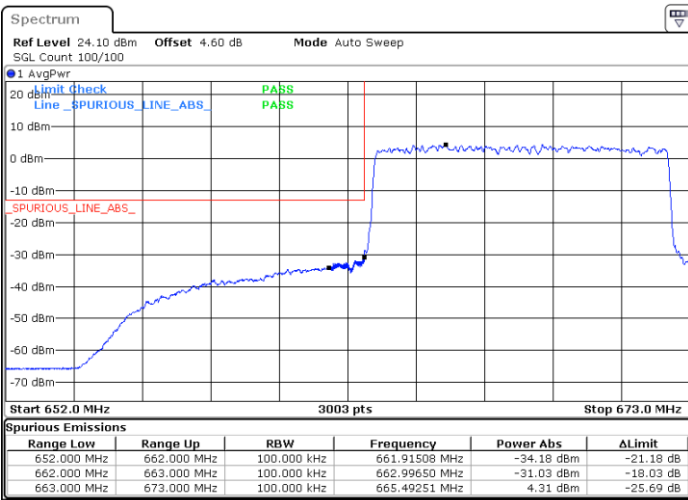


Date: 27.MAY.2022 08:14:56

Date: 27.MAY.2022 08:42:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAY.2022 08:09:10

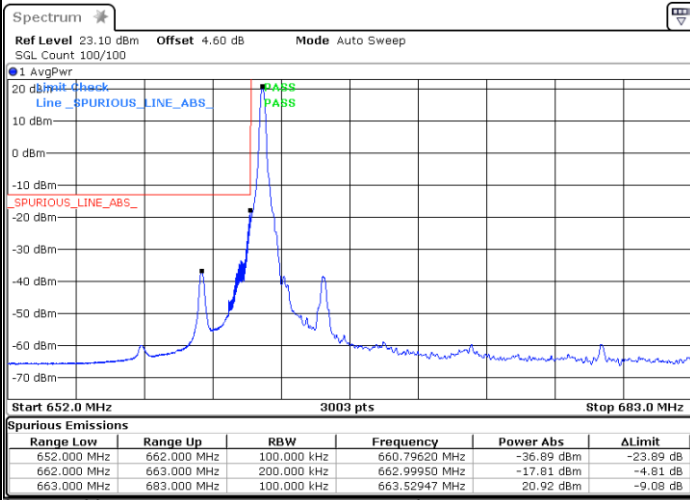
Date: 27.MAY.2022 08:30:25



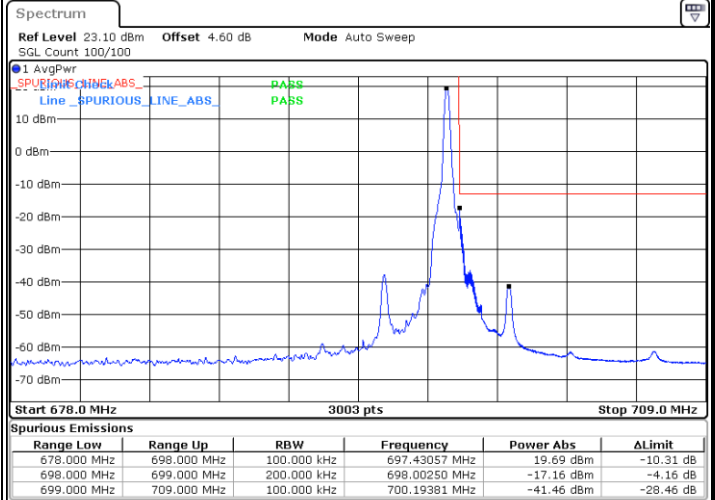
FR1 n71 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



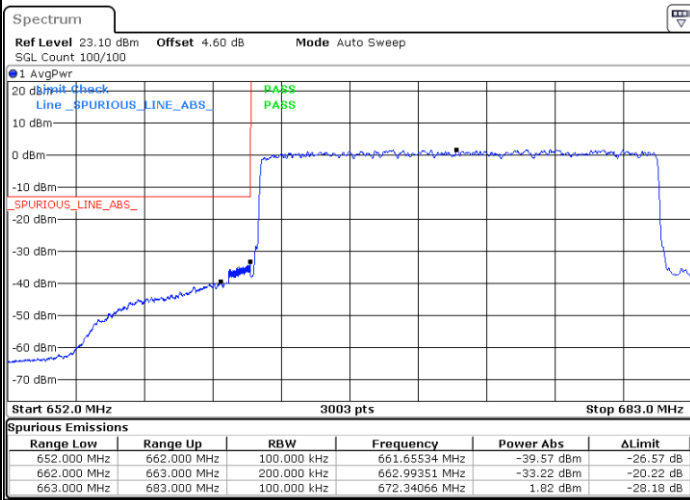
Date: 27.MAY.2022 09:28:18



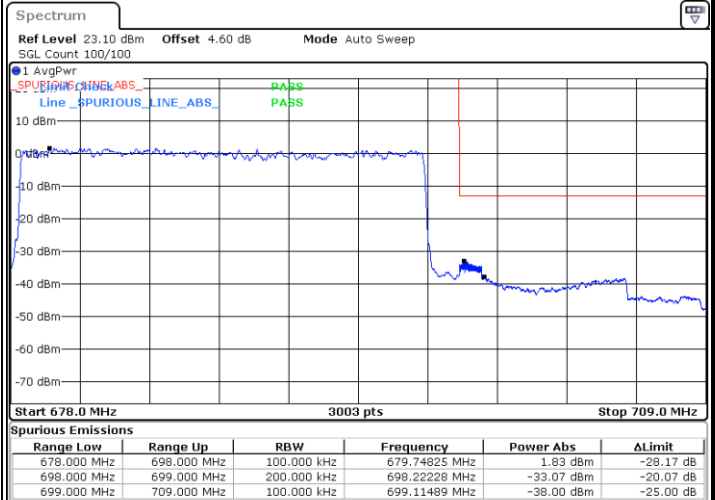
Date: 27.MAY.2022 09:39:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAY.2022 09:20:46



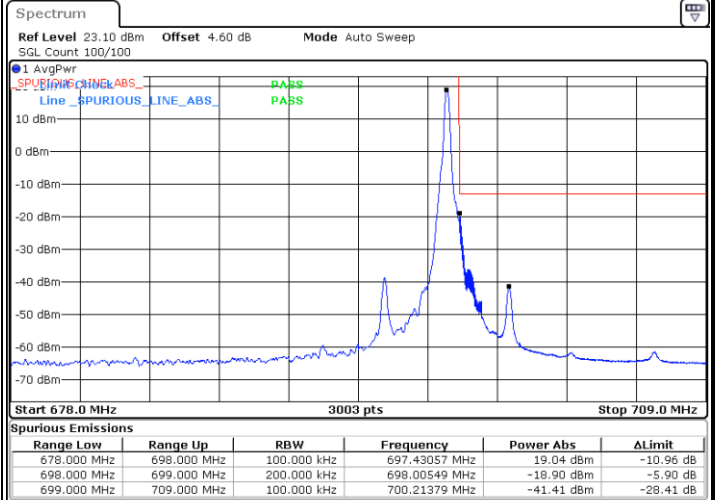
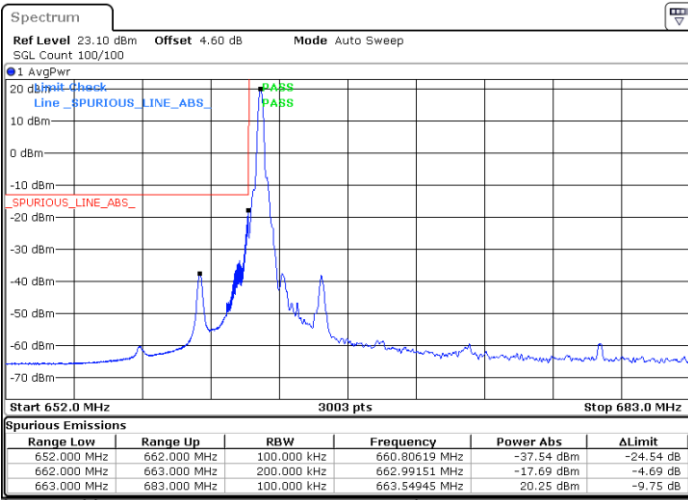
Date: 27.MAY.2022 09:33:41



FR1 n71/ 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

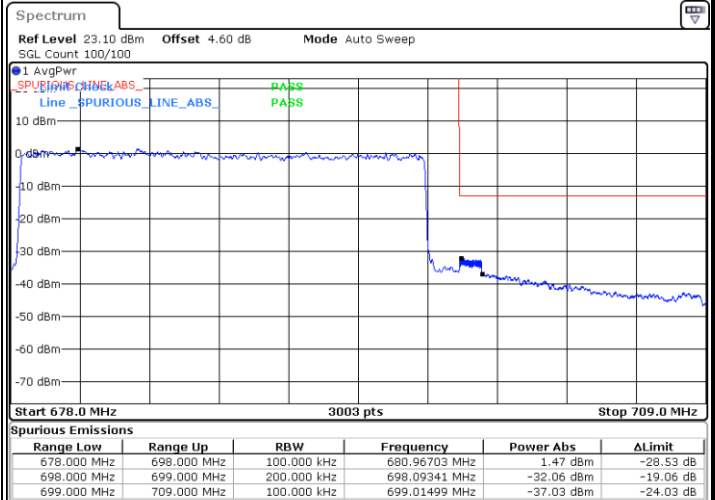
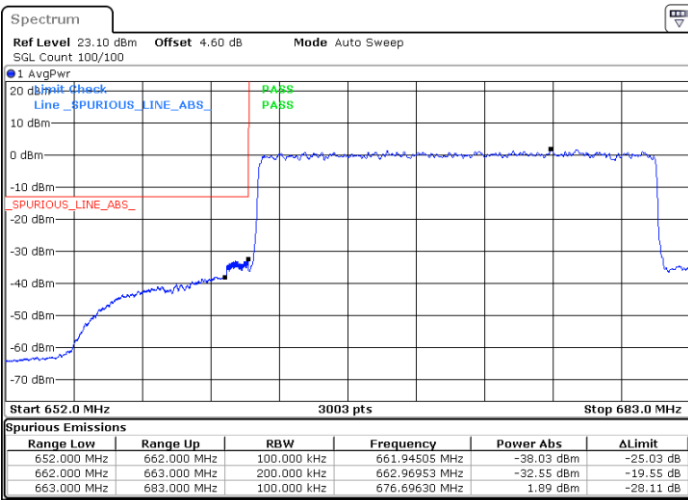


Date: 27.MAY.2022 09:27:14

Date: 27.MAY.2022 09:39:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAY.2022 09:21:31

Date: 27.MAY.2022 09:34:24

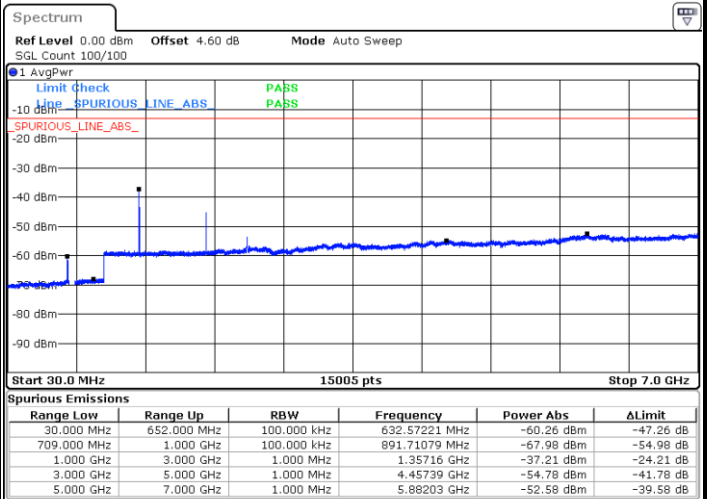
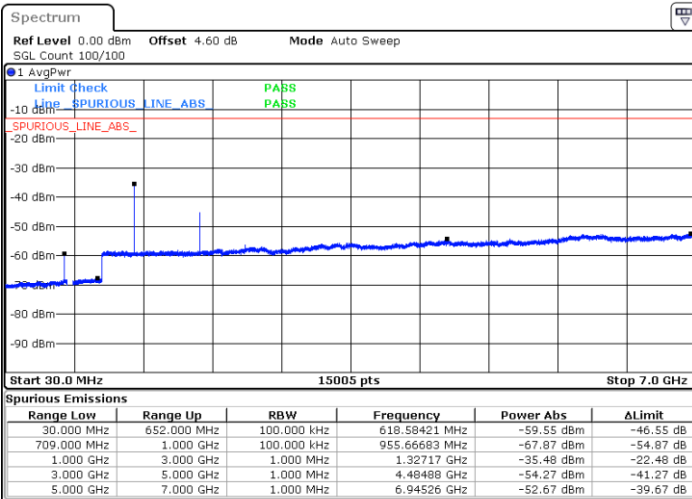


# Conducted Spurious Emission

FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

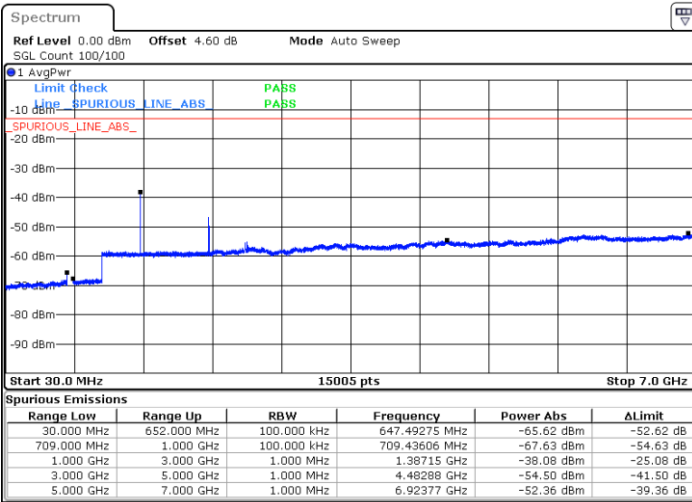
Middle Channel / 1RB1



Date: 27.MAY.2022 07:41:28

Date: 27.MAY.2022 07:42:54

Highest Channel / 1RB1



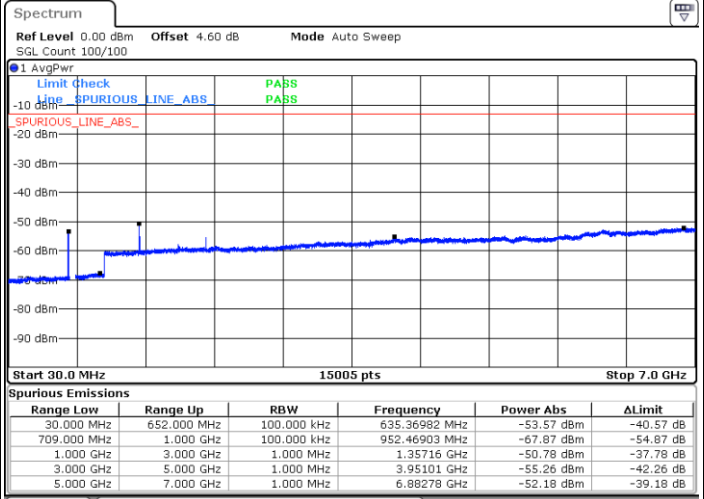
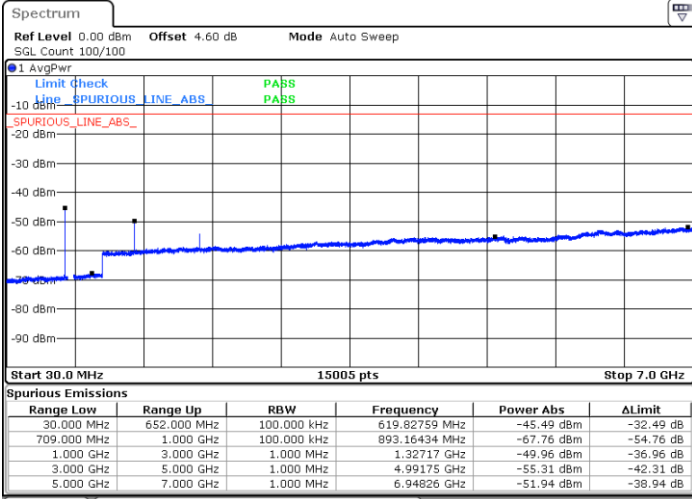
Date: 27.MAY.2022 07:43:50



FR1 n71 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

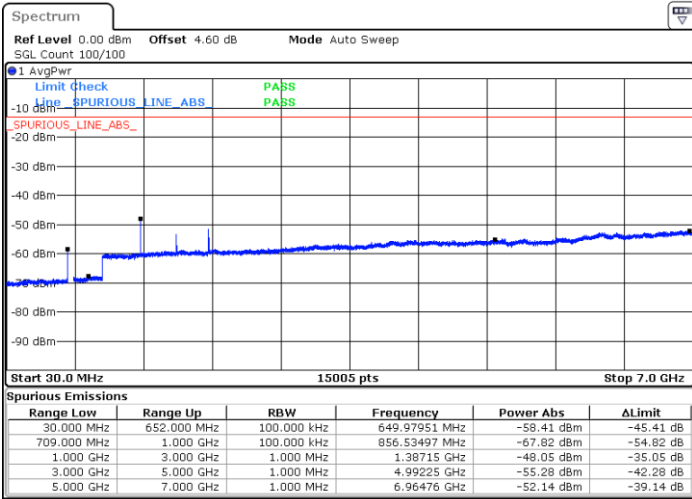
Middle Channel / 1RB1



Date: 12. JUN. 2022 12:00:59

Date: 12. JUN. 2022 12:09:01

Highest Channel / 1RB1



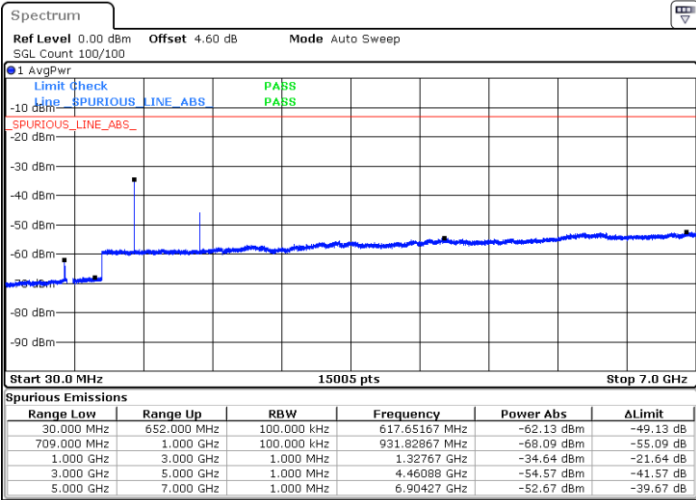
Date: 12. JUN. 2022 12:09:43



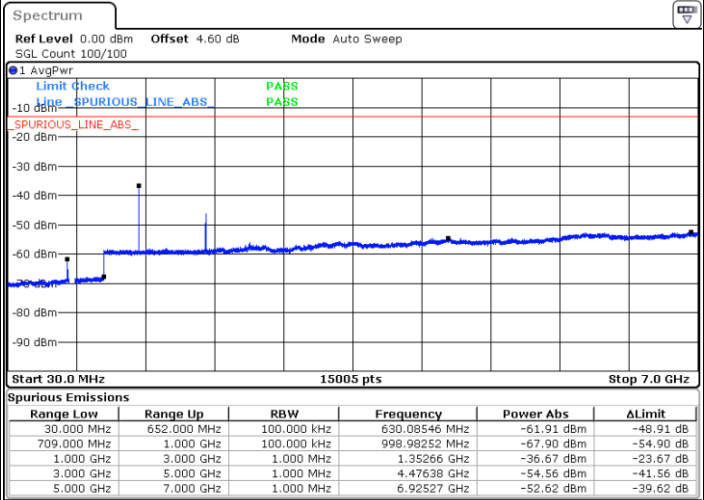
FR1 n71/ 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

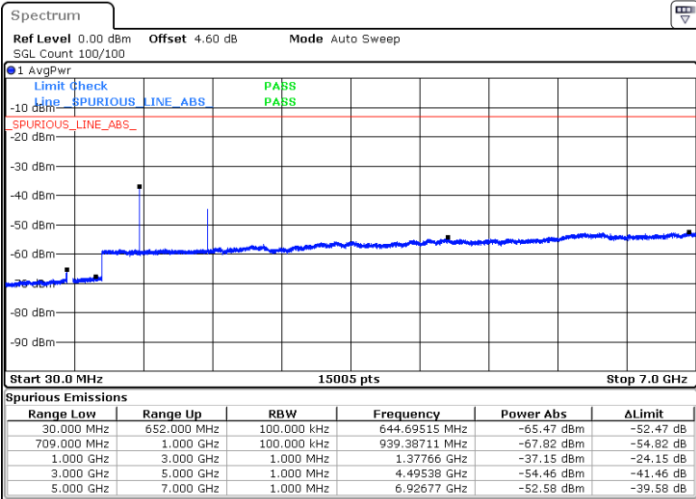


Date: 27.MAY.2022 08:00:11



Date: 27.MAY.2022 07:58:21

Highest Channel / 1RB1



Date: 27.MAY.2022 08:43:28

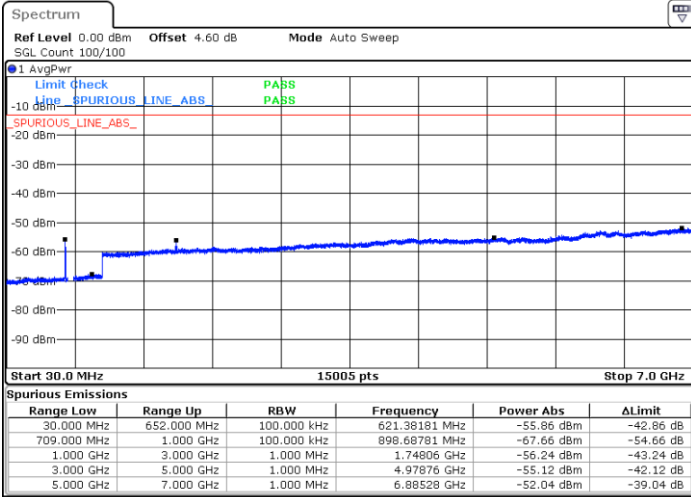




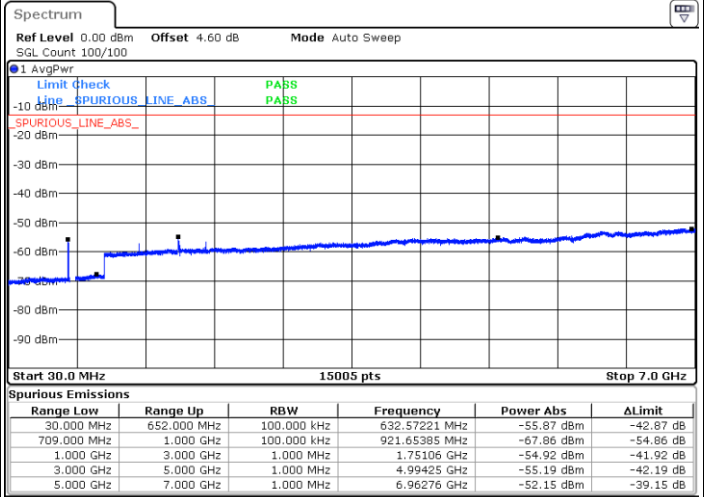
FR1 n71/ 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

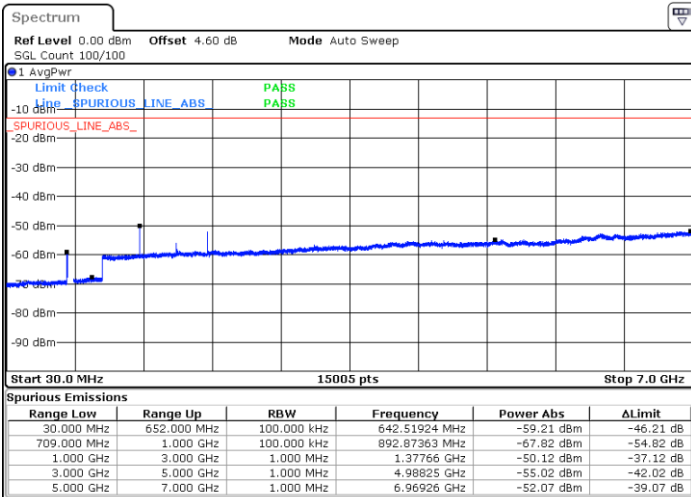


Date: 12 JUN 2022 12:11:31



Date: 12 JUN 2022 12:12:29

Highest Channel / 1RB1



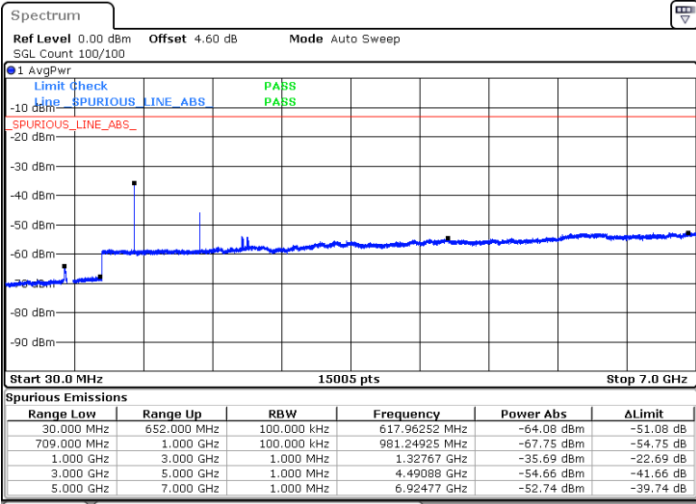
Date: 12 JUN 2022 12:15:16



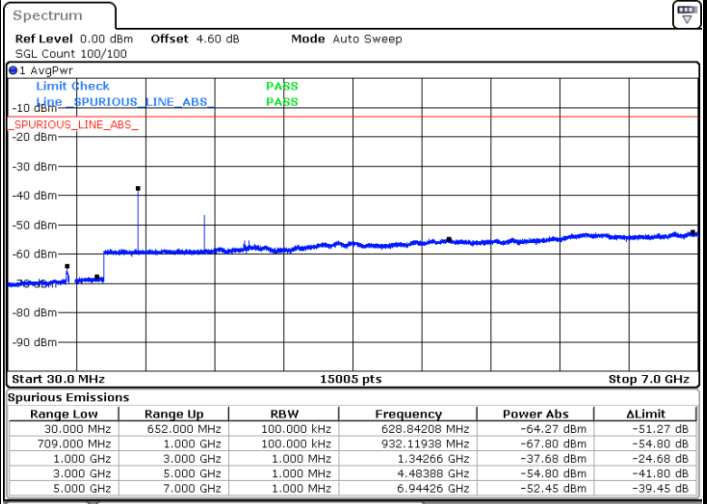
FR1 n71 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

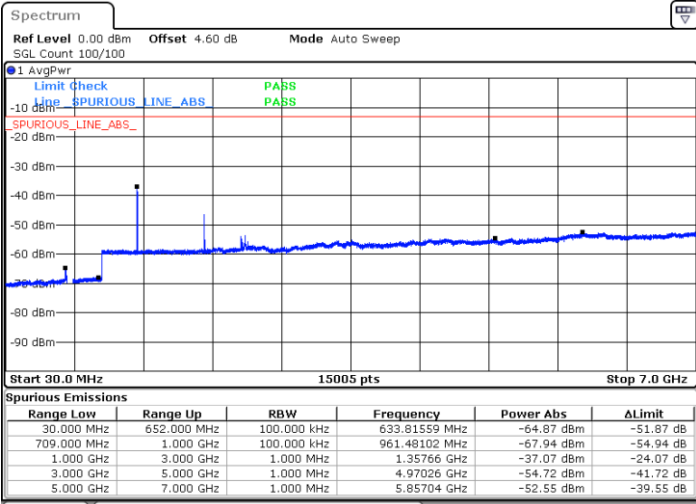


Date: 27.MAY.2022 09:28:56



Date: 27.MAY.2022 09:30:20

Highest Channel / 1RB1



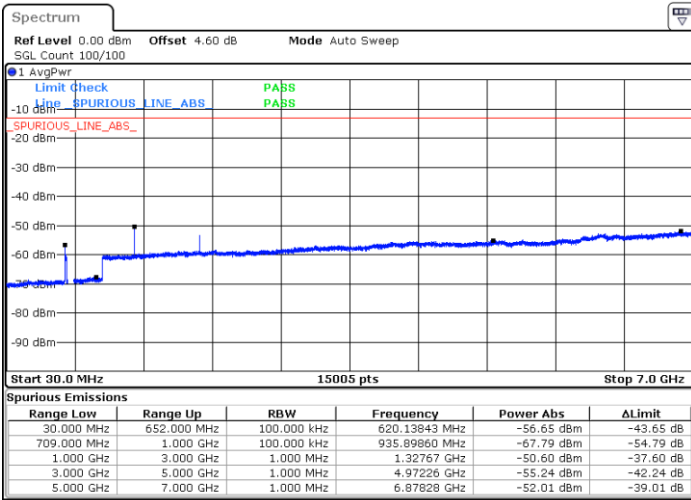
Date: 27.MAY.2022 09:40:54



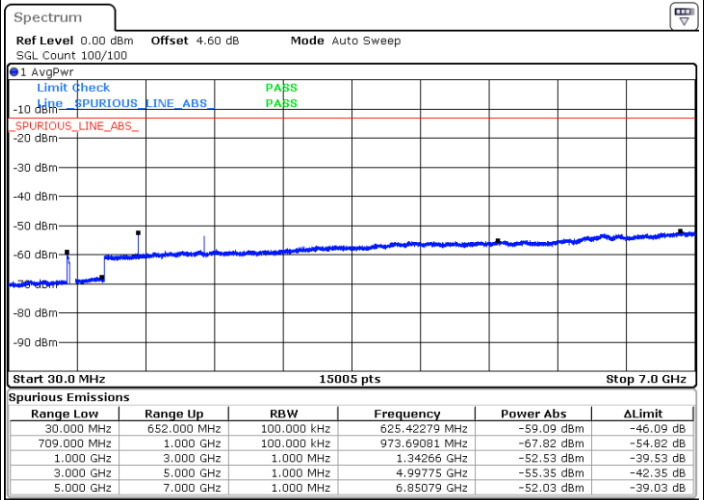
FR1 n71 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

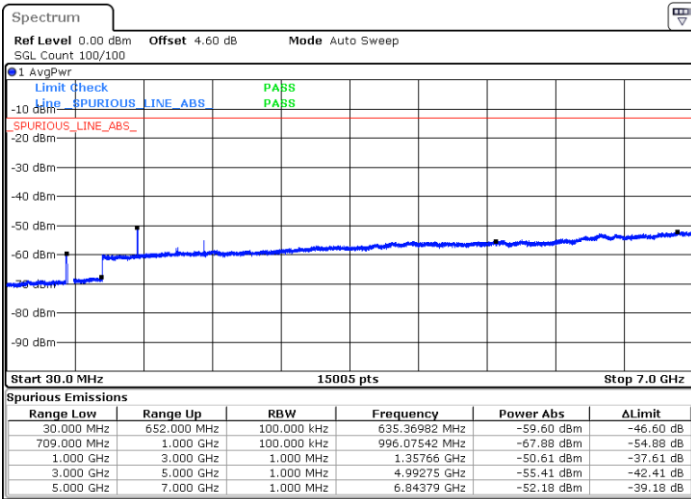


Date: 12 JUN 2022 12:19:53



Date: 12 JUN 2022 12:20:44

Highest Channel / 1RB1



Date: 12 JUN 2022 12:21:45



Frequency Stability

Test Conditions		FR1 n71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0052	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0034	

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.

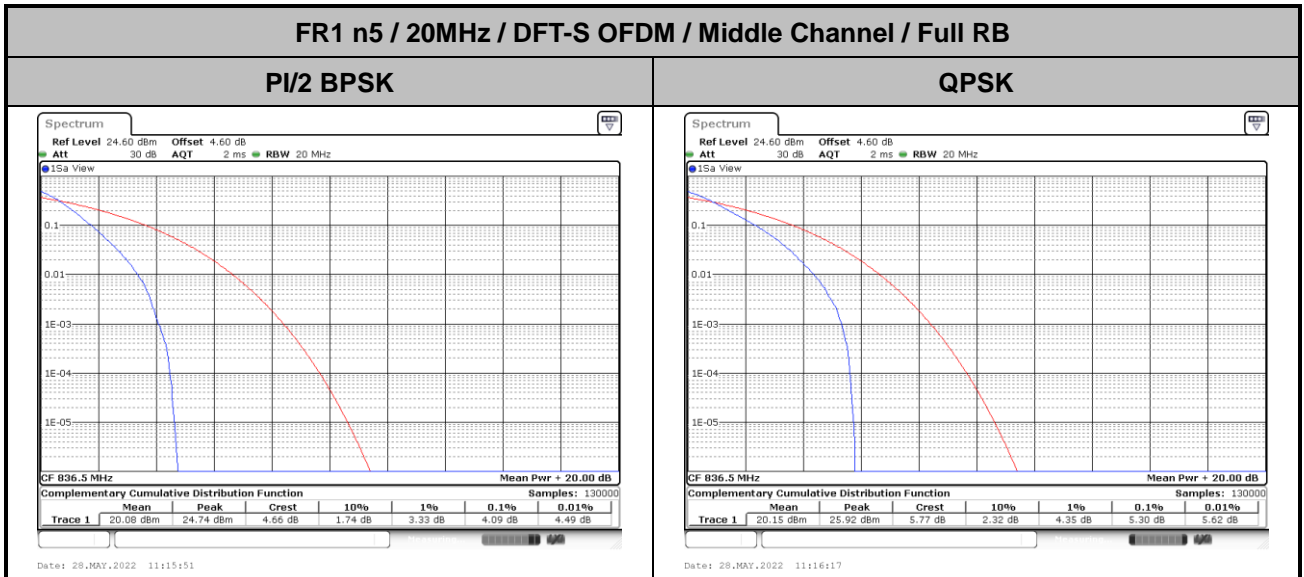


# Other PA

## FR1 B12\_n5

### Peak-to-Average Ratio

Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK			Limit: 13dB
RB Size	Full RB	Full RB			Result
Middle CH	4.09	5.30			PASS





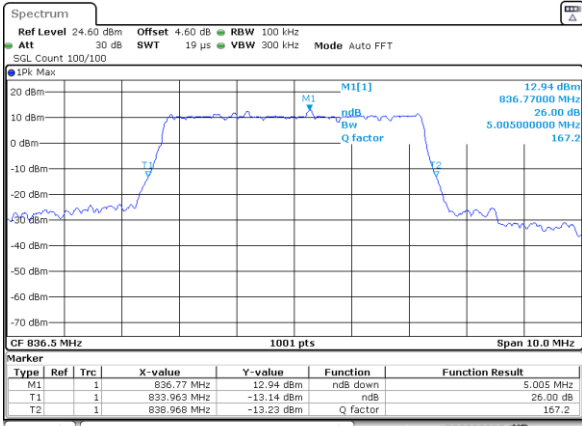
**26dB Bandwidth**

Mode	FR1 n5 : 26dBW (MHz) / CP OFDM			
<b>BW</b>	<b>5M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	5.01	4.96	5.03	4.94
<b>BW</b>	<b>10M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	9.77	9.87	9.81	9.69
<b>BW</b>	<b>15M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	14.33	14.24	14.27	14.15
<b>BW</b>	<b>20M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	20.1	20.14	20.06	20.06



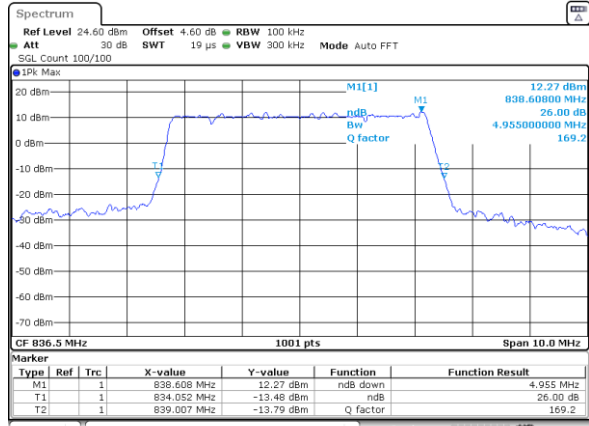
FR1 n5 / 5MHz / CP / Middle Channel / Full RB

QPSK



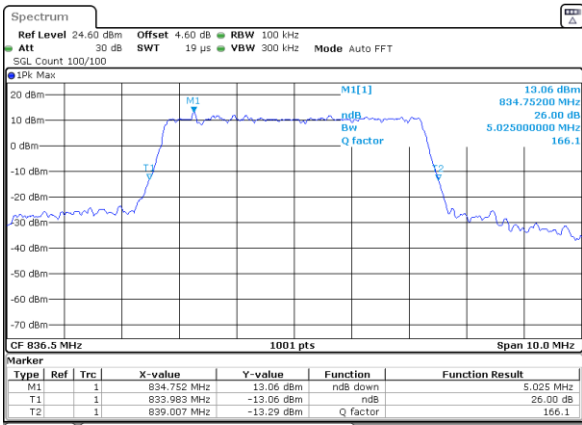
Date: 6.JUN.2022 11:43:45

16QAM



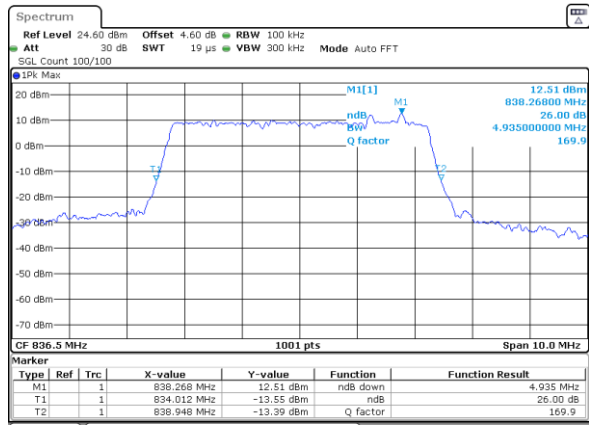
Date: 6.JUN.2022 11:45:35

64QAM



Date: 6.JUN.2022 11:46:47

256QAM

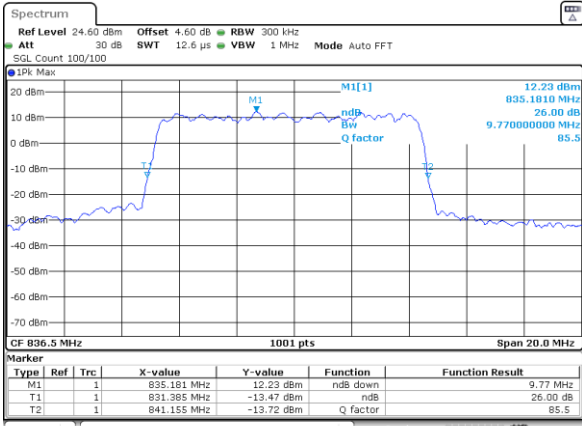


Date: 6.JUN.2022 11:47:20



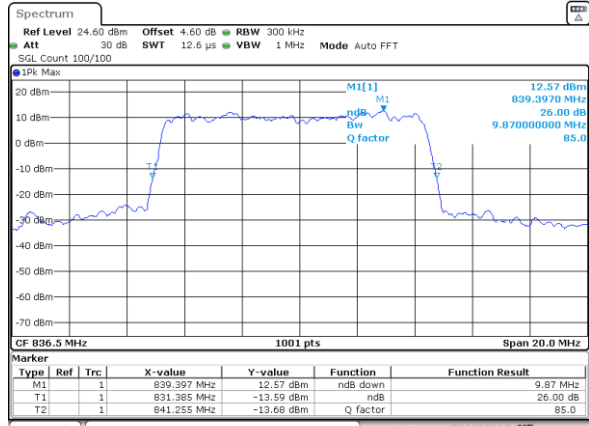
FR1 n5 / 10MHz / CP / Middle Channel / Full RB

QPSK



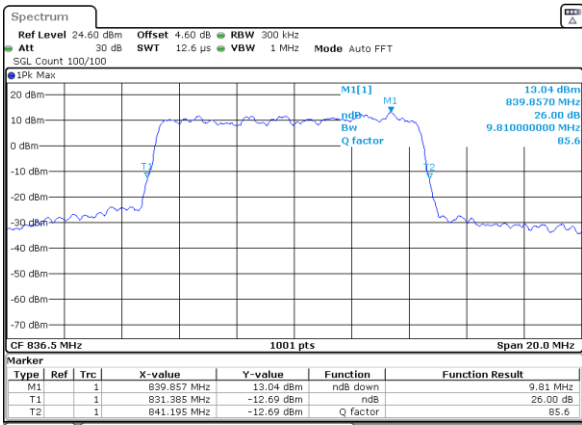
Date: 6.JUN.2022 11:53:27

16QAM



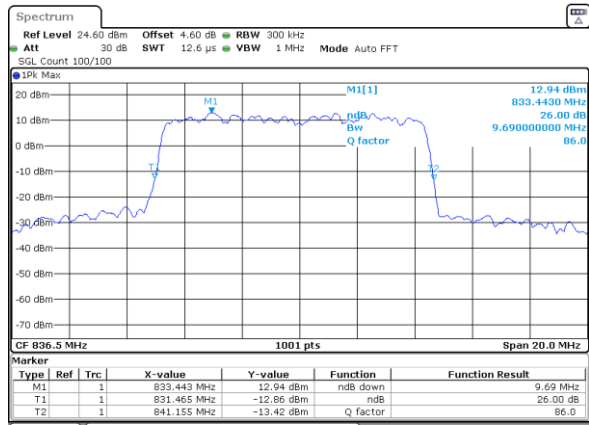
Date: 6.JUN.2022 11:52:50

64QAM



Date: 6.JUN.2022 11:50:33

256QAM



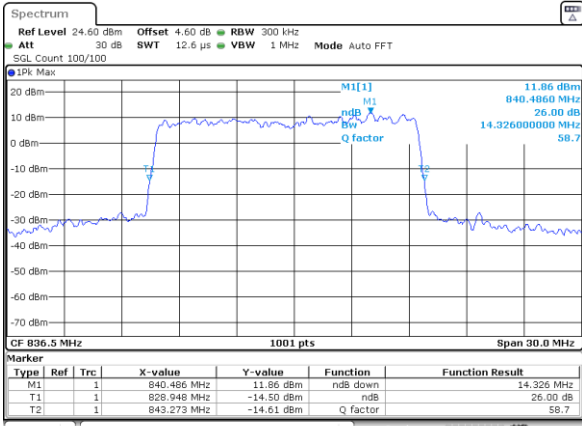
Date: 6.JUN.2022 11:50:06





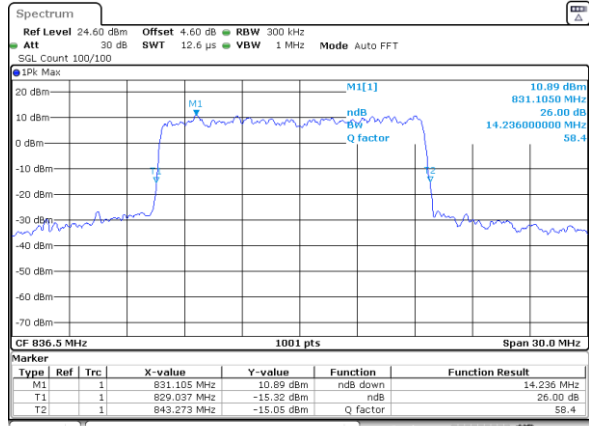
FR1 n5 / 15MHz / CP / Middle Channel / Full RB

QPSK



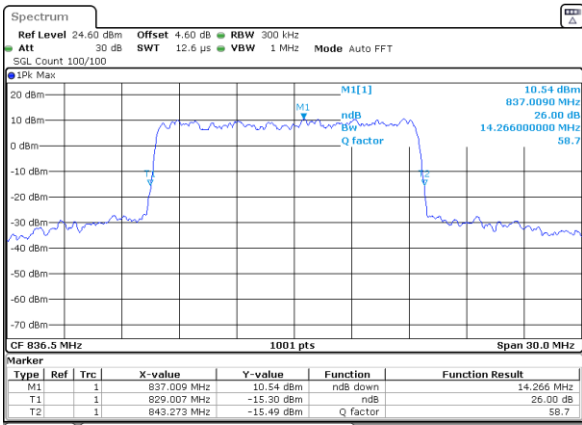
Date: 6.JUN.2022 12:07:15

16QAM



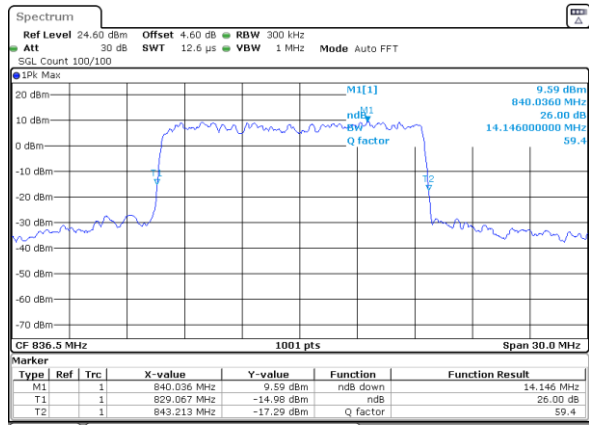
Date: 6.JUN.2022 12:07:37

64QAM



Date: 6.JUN.2022 12:09:13

256QAM

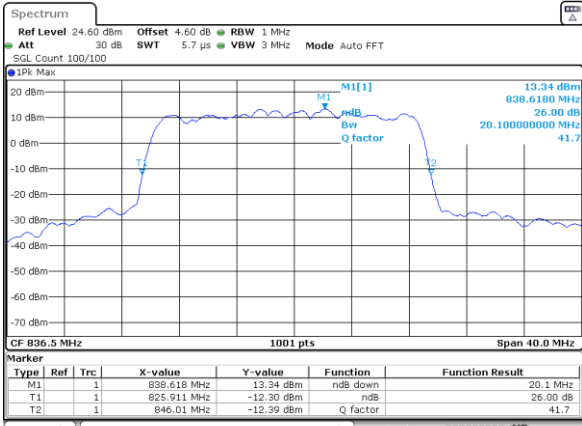


Date: 6.JUN.2022 12:10:10



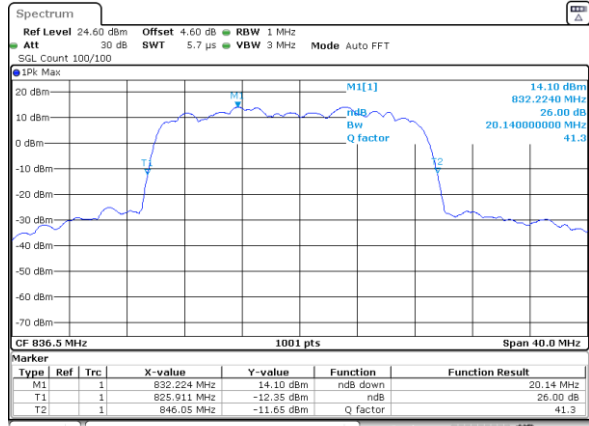
FR1 n5 / 20MHz / CP / Middle Channel / Full RB

QPSK



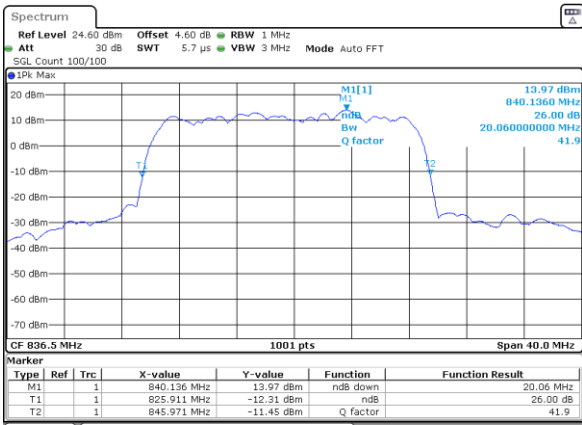
Date: 6.JUN.2022 12:12:09

16QAM



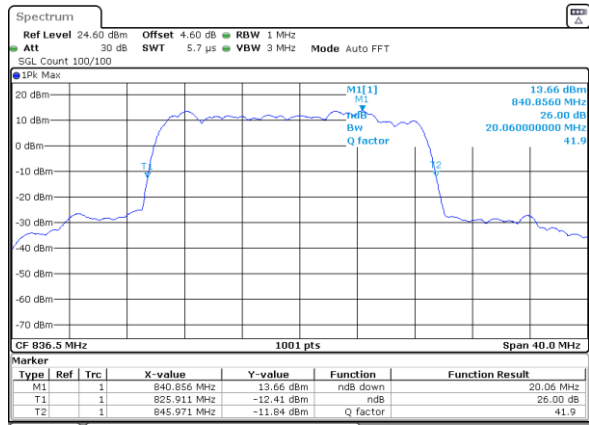
Date: 6.JUN.2022 12:12:37

64QAM



Date: 6.JUN.2022 12:13:22

256QAM



Date: 6.JUN.2022 12:13:56



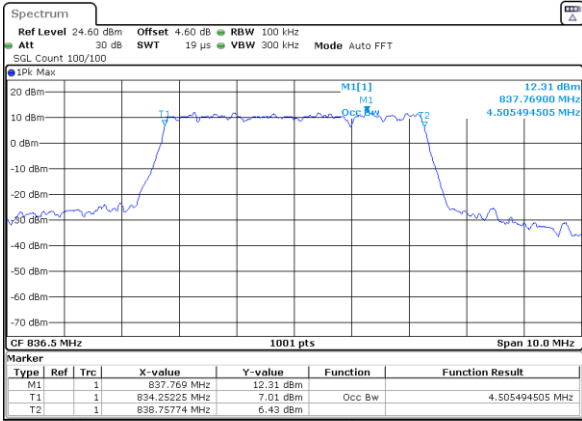
Occupied Bandwidth

Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM			
<b>BW</b>	<b>5M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	4.51	4.49	4.49	4.48
<b>BW</b>	<b>10M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	9.03	9.03	9.03	9.05
<b>BW</b>	<b>15M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	13.49	13.49	13.49	13.43
<b>BW</b>	<b>20M</b>			
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	18.30	18.14	18.18	18.34



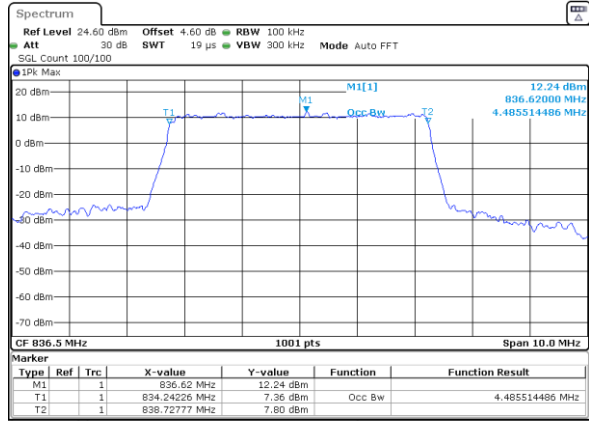
FR1 n5 / 5MHz / CP / Middle Channel / Full RB

QPSK



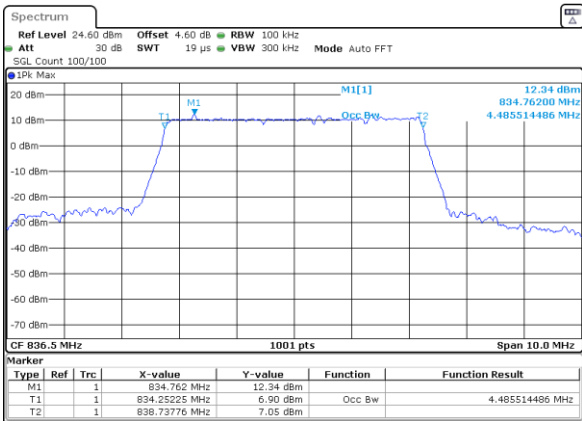
Date: 6.JUN.2022 11:43:53

16QAM



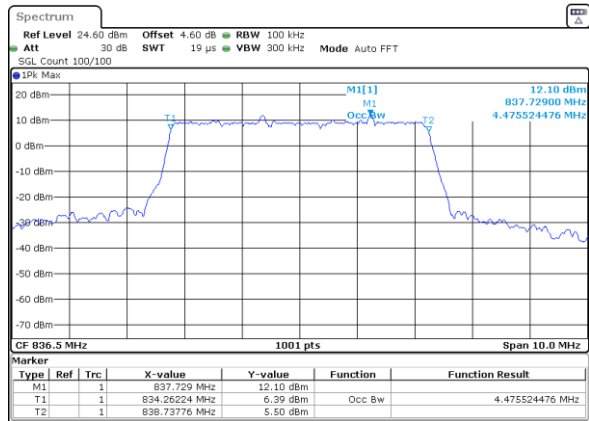
Date: 6.JUN.2022 11:45:43

64QAM



Date: 6.JUN.2022 11:46:59

256QAM

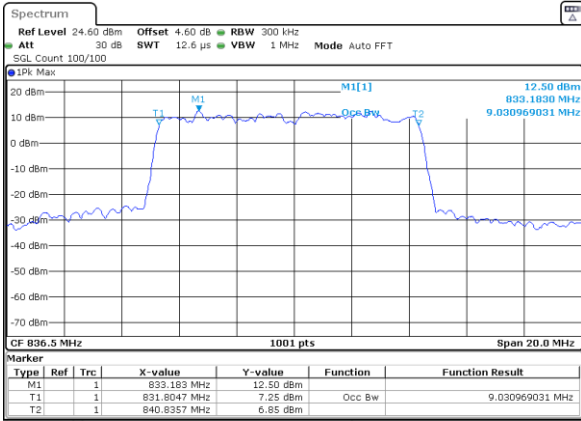


Date: 6.JUN.2022 11:47:27



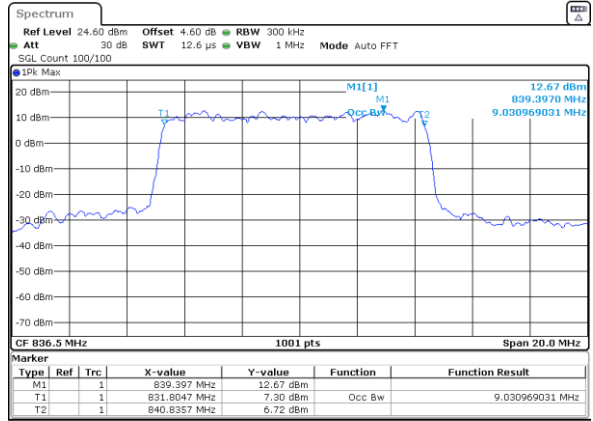
FR1 n5 / 10MHz / CP / Middle Channel / Full RB

QPSK



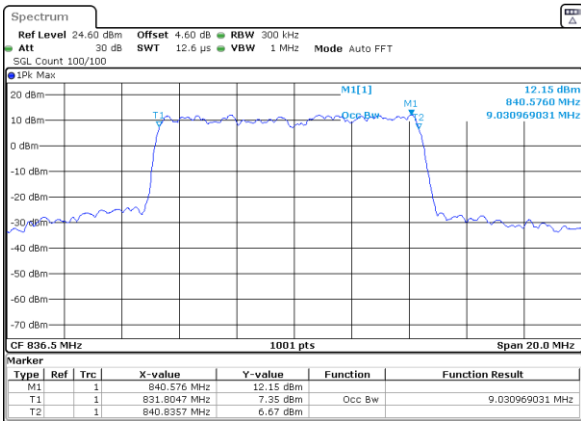
Date: 6.JUN.2022 11:53:136

16QAM



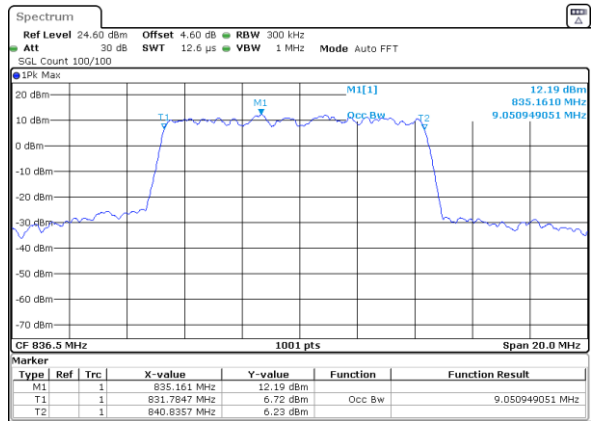
Date: 6.JUN.2022 11:53:111

64QAM



Date: 6.JUN.2022 11:50:141

256QAM

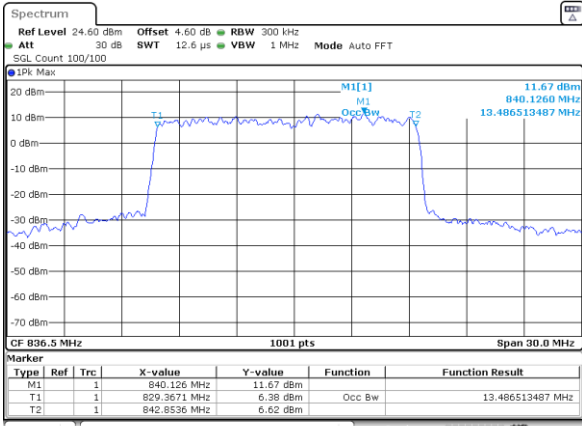


Date: 6.JUN.2022 11:50:133



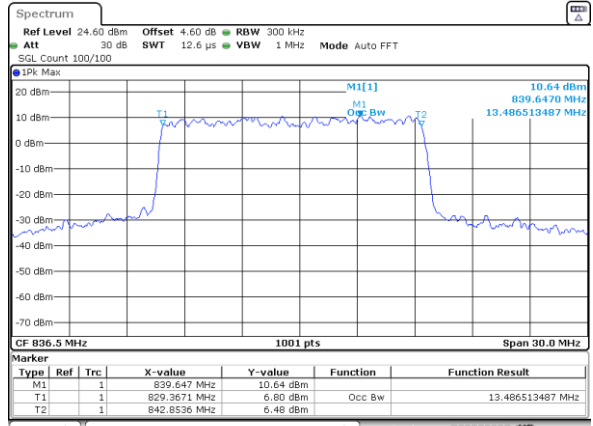
FR1 n5 / 15MHz / CP / Middle Channel / Full RB

QPSK



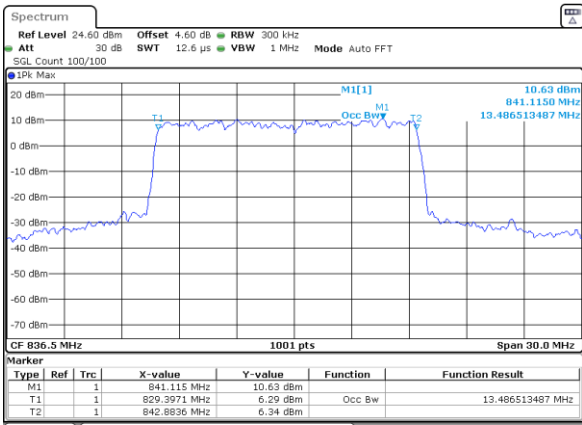
Date: 6.JUN.2022 12:07:22

16QAM



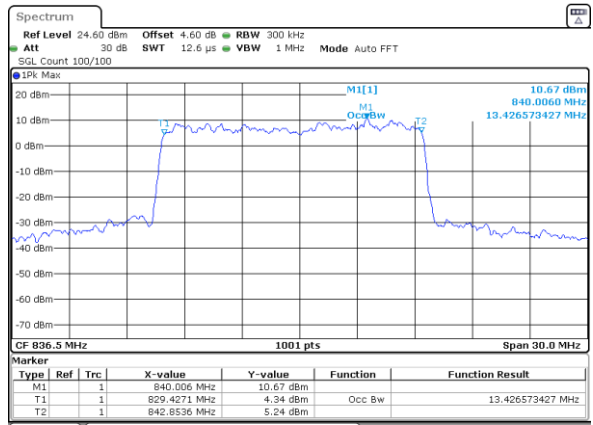
Date: 6.JUN.2022 12:07:45

64QAM



Date: 6.JUN.2022 12:09:44

256QAM

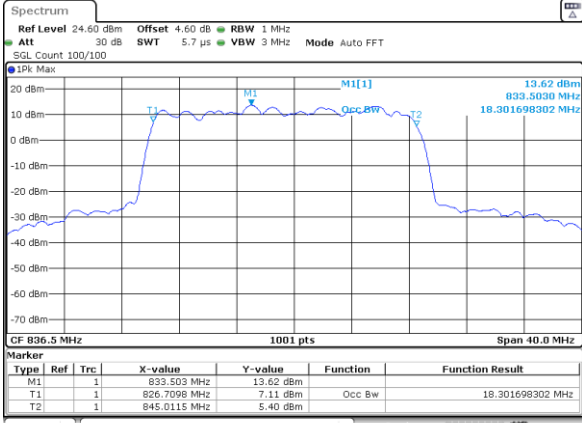


Date: 6.JUN.2022 12:10:18



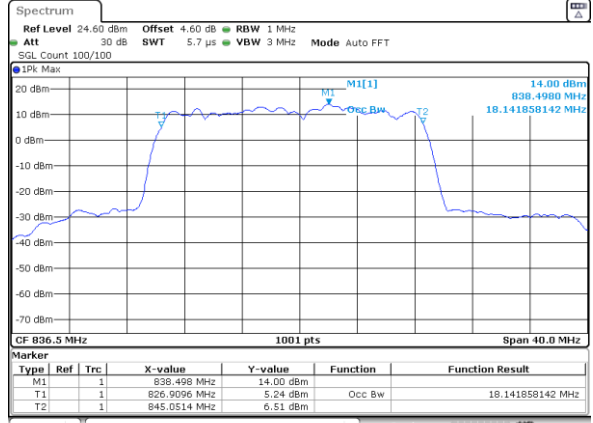
FR1 n5 / 20MHz / CP / Middle Channel / Full RB

QPSK



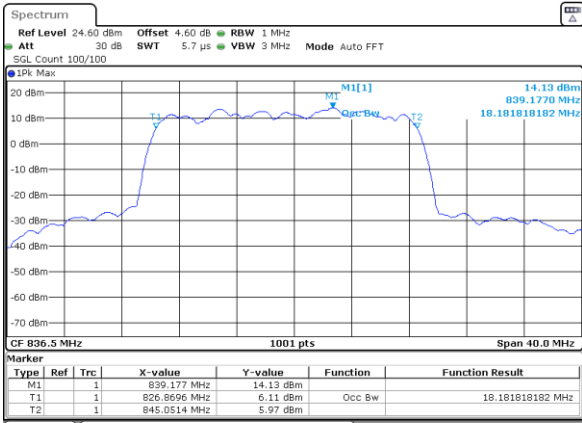
Date: 6.JUN.2022 12:11:18

16QAM



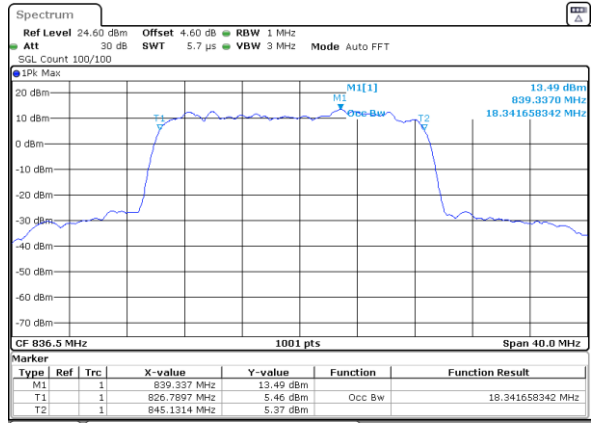
Date: 6.JUN.2022 12:12:46

64QAM



Date: 6.JUN.2022 12:11:31

256QAM



Date: 6.JUN.2022 12:14:04

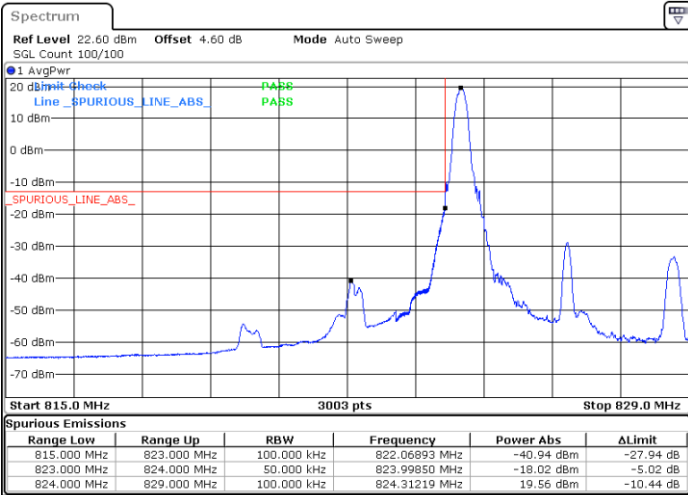


# Conducted Band Edge

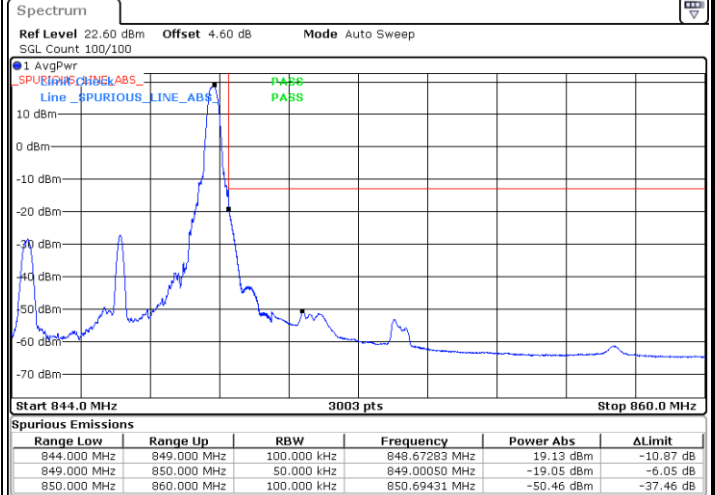
FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



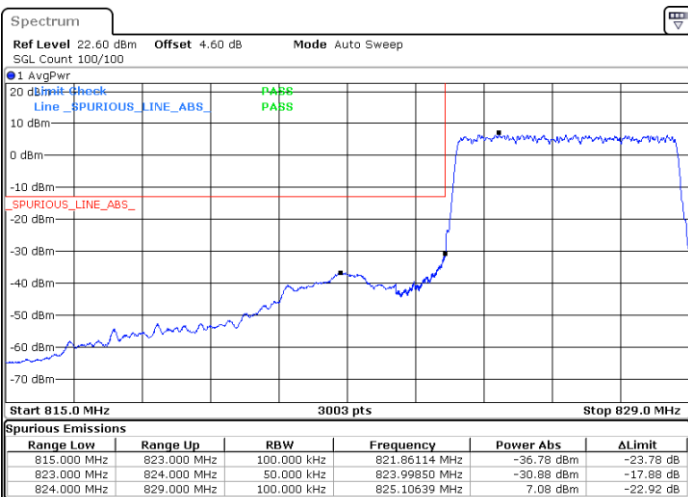
Date: 28.MAY.2022 08:58:21



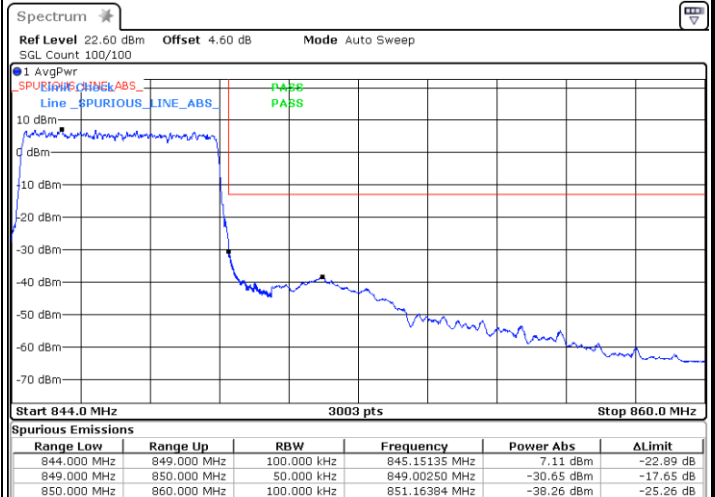
Date: 28.MAY.2022 09:13:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2022 08:50:26



Date: 28.MAY.2022 09:02:19

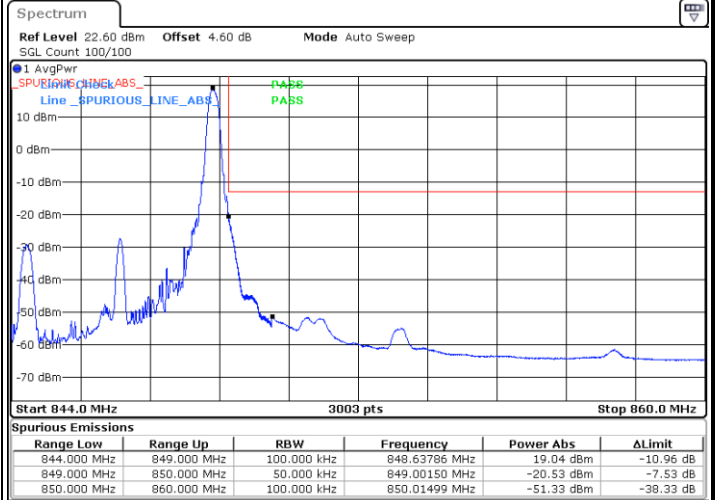
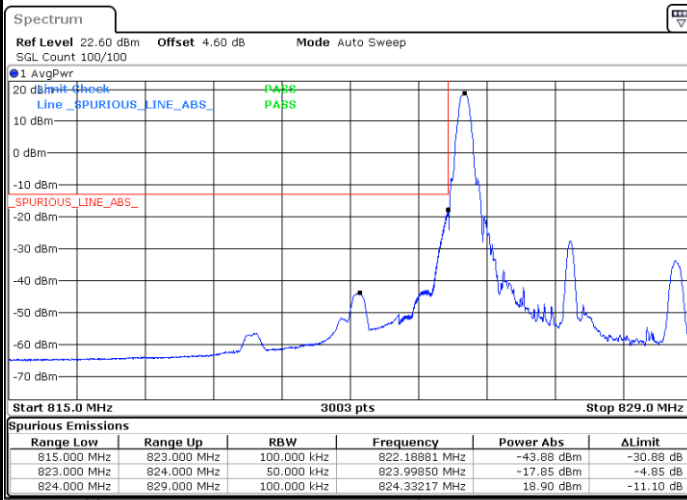




FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

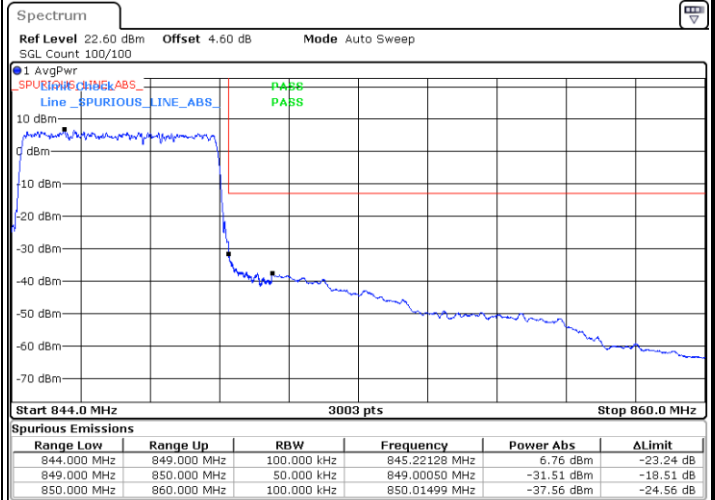
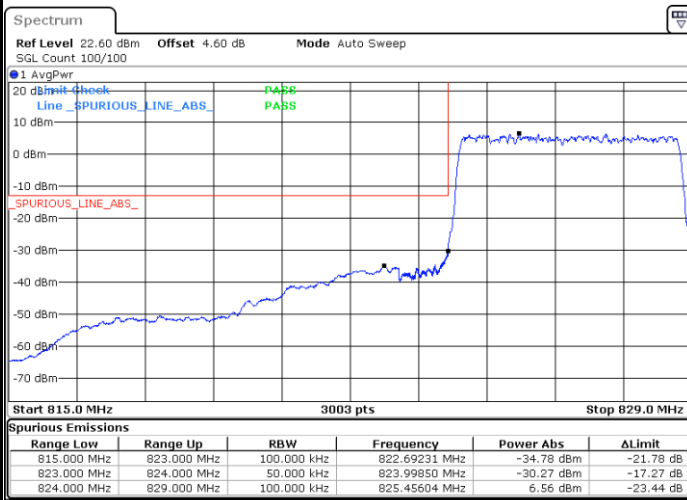


Date: 28.MAY.2022 09:57:24

Date: 28.MAY.2022 09:09:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2022 08:51:13

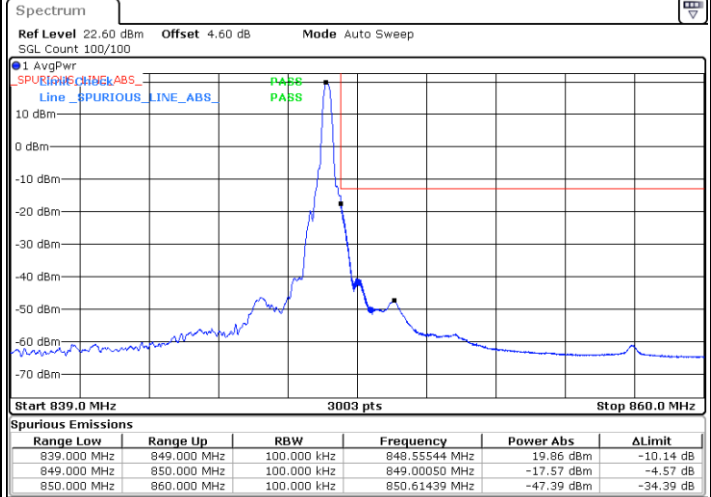
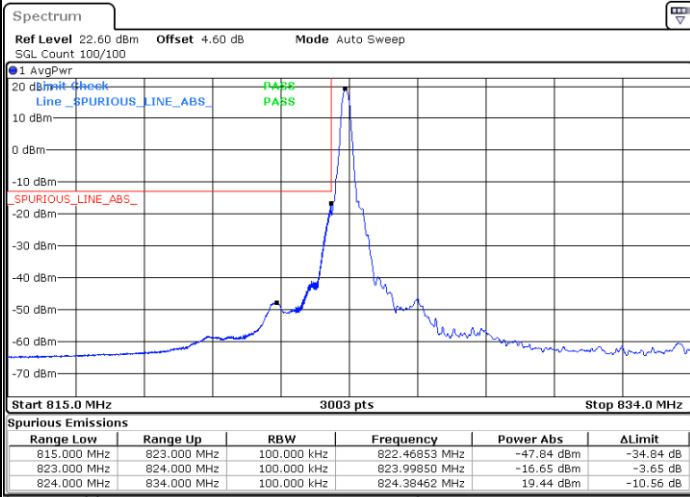
Date: 28.MAY.2022 09:03:09



FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

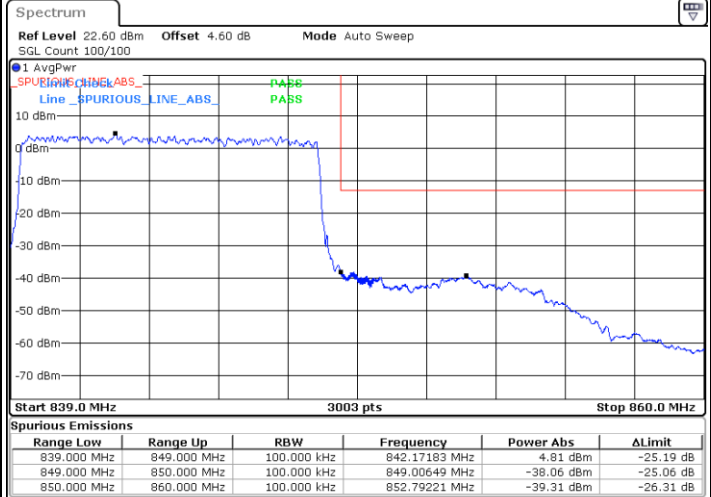
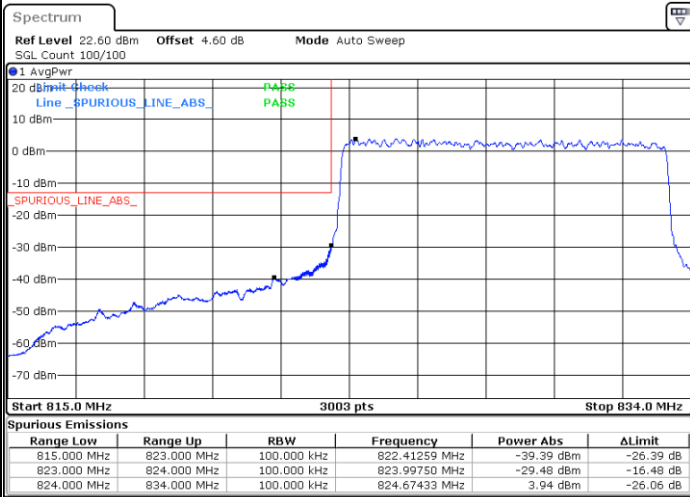


Date: 28.MAY.2022 09:24:56

Date: 28.MAY.2022 09:41:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2022 09:16:14

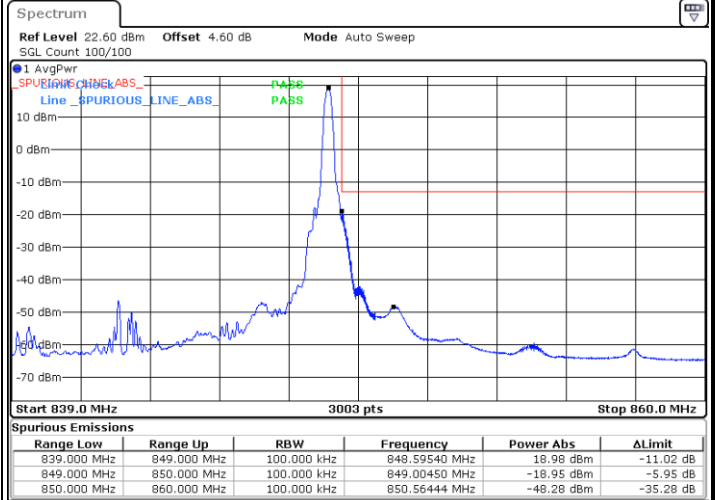
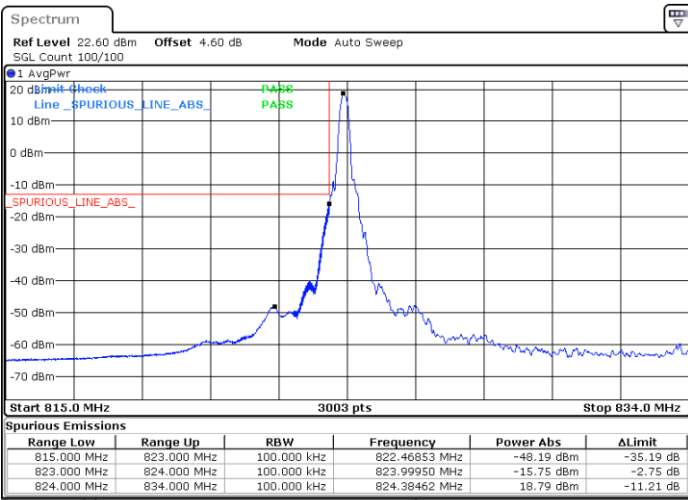
Date: 28.MAY.2022 09:31:59



FR1 n5 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

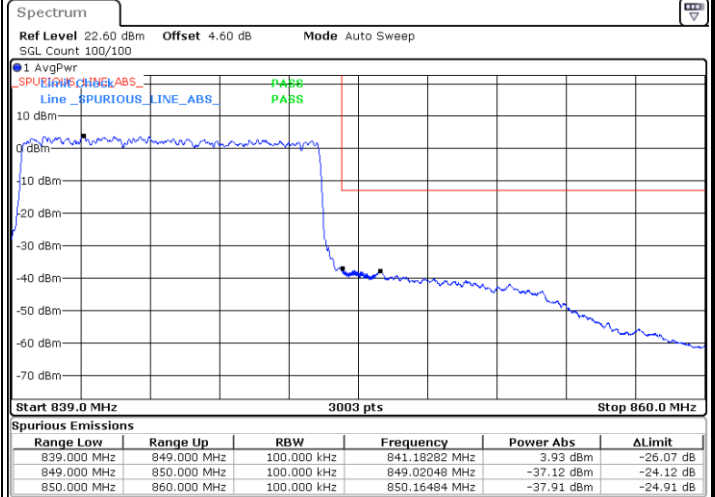
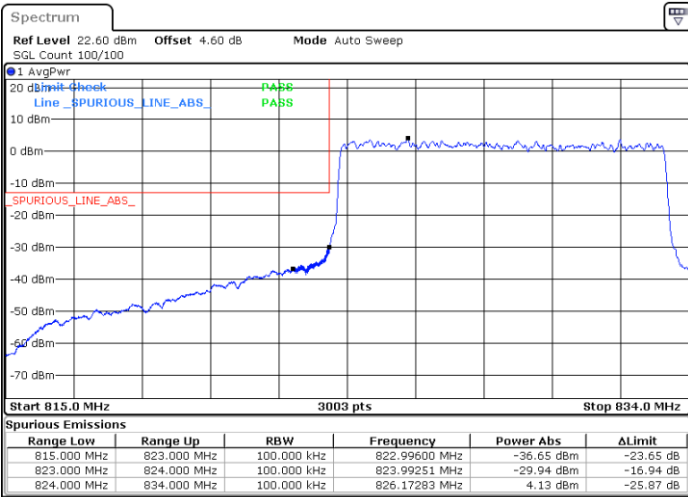


Date: 28.MAY.2022 09:22:40

Date: 28.MAY.2022 09:39:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2022 09:17:30

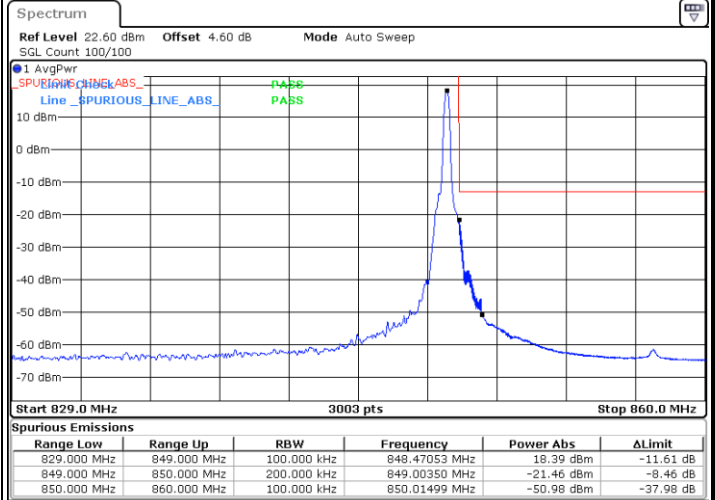
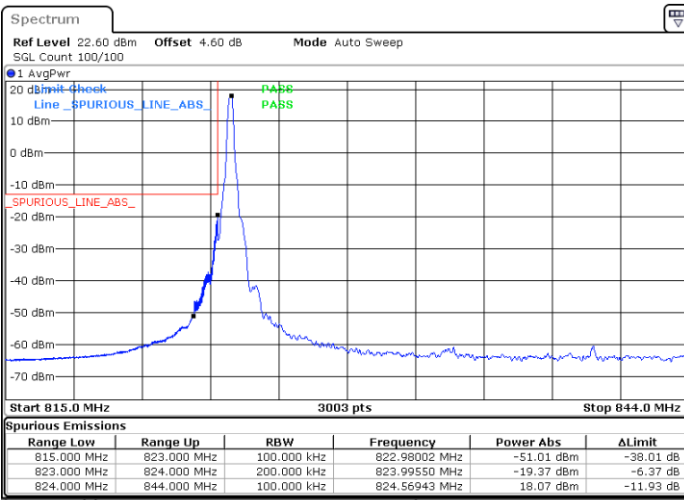
Date: 28.MAY.2022 09:33:10



FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

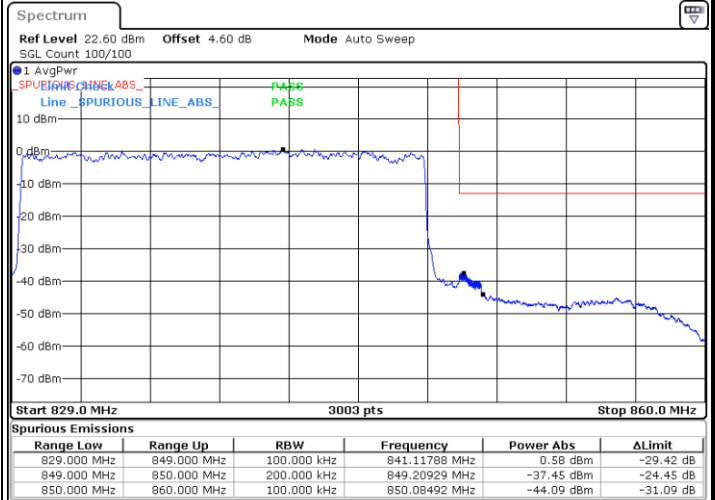
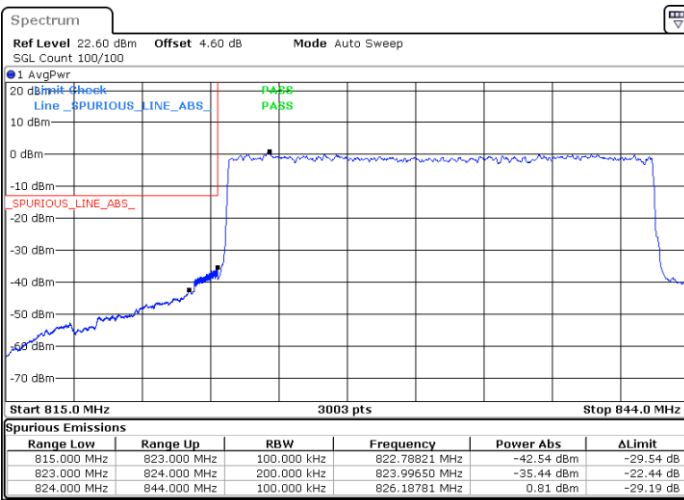


Date: 28.MAY.2022 11:01:13

Date: 28.MAY.2022 11:12:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2022 10:53:46

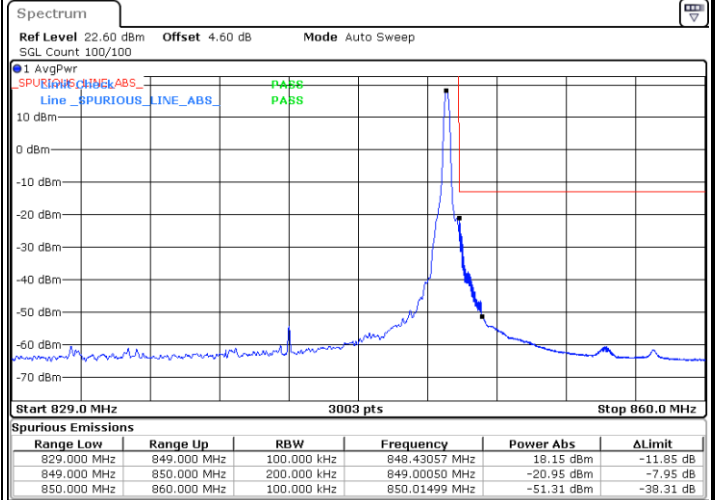
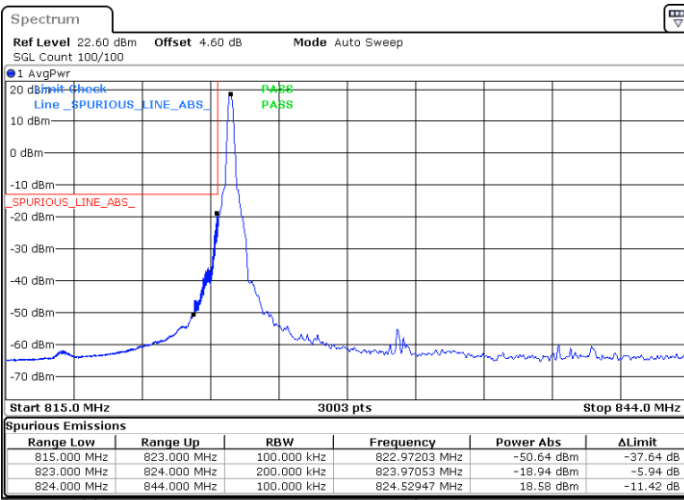
Date: 28.MAY.2022 11:05:53



FR1 n5 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

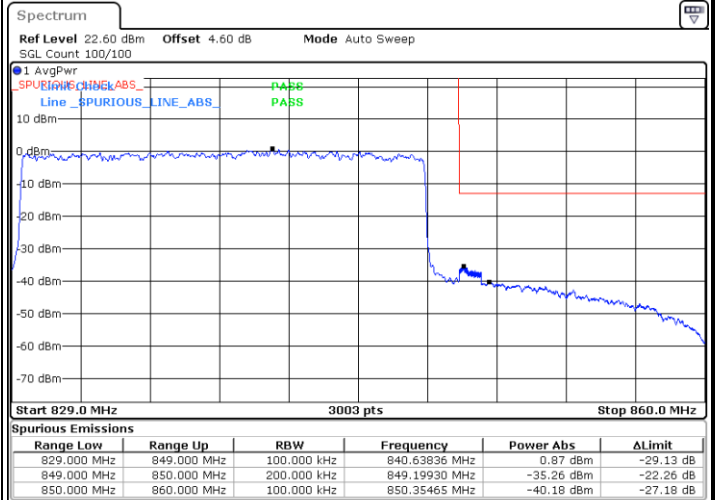
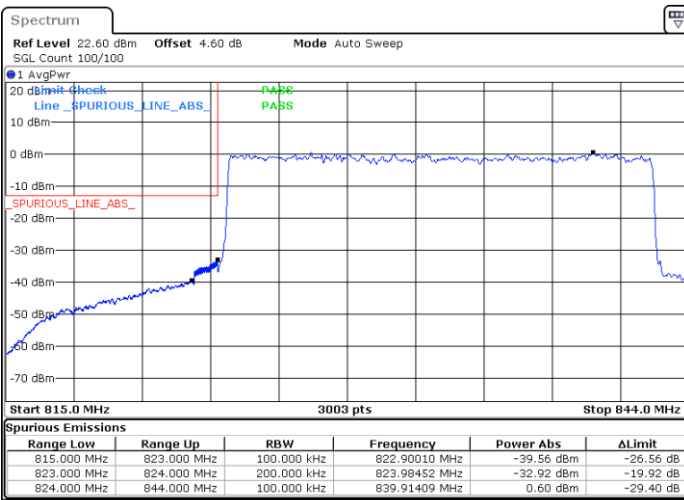


Date: 28.MAY.2022 11:00:27

Date: 28.MAY.2022 11:11:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.MAY.2022 10:54:23

Date: 28.MAY.2022 11:06:51

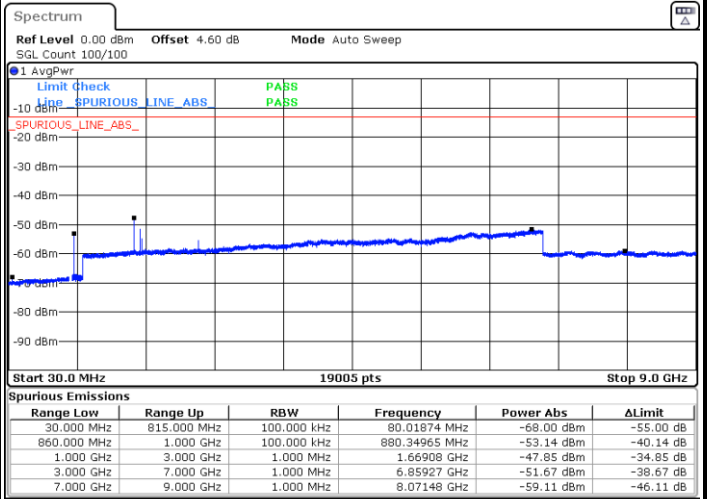
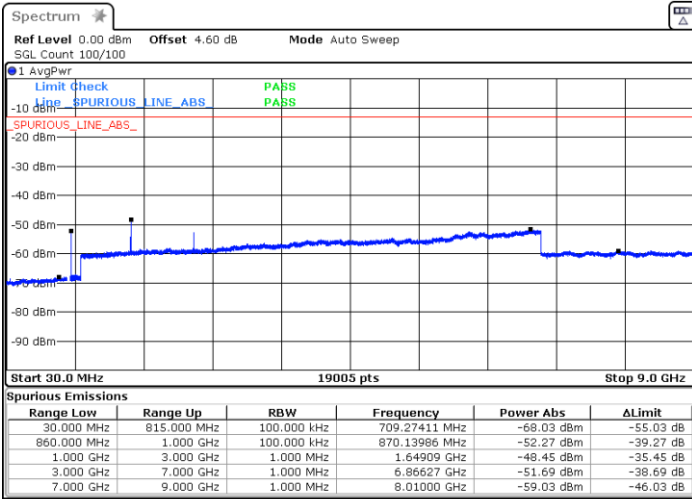


# Conducted Spurious Emission

FR1 n5 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

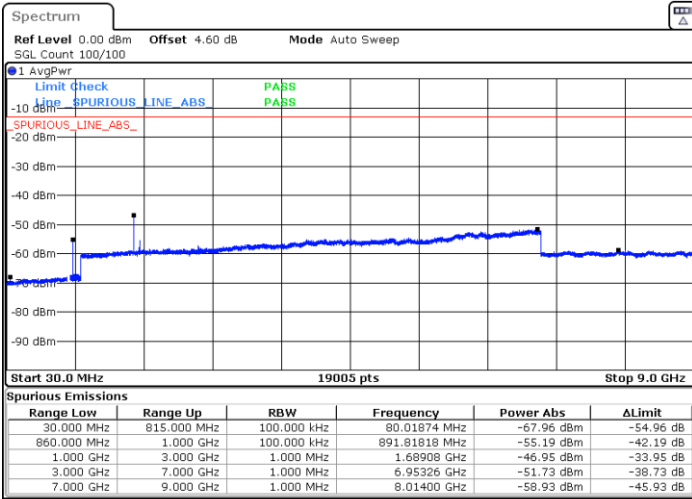
Middle Channel / 1RB1



Date: 6 JUN.2022 11:20:22

Date: 6 JUN.2022 11:23:05

Highest Channel / 1RB1



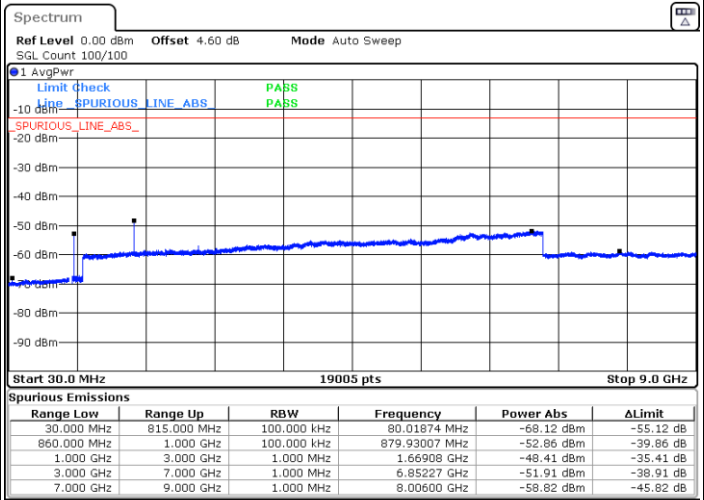
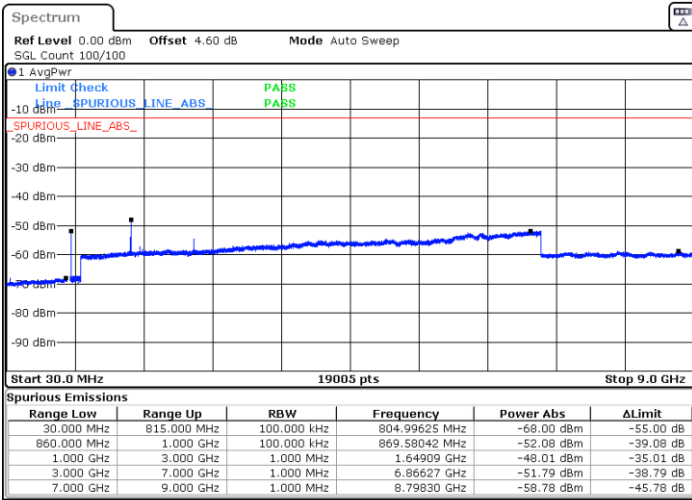
Date: 6 JUN.2022 11:24:05



FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

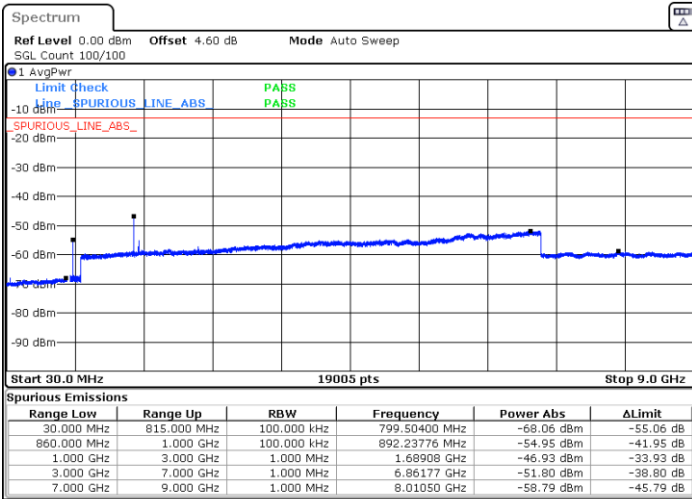
Middle Channel / 1RB1



Date: 6 JUN. 2022 11:21:03

Date: 6 JUN. 2022 11:21:49

Highest Channel / 1RB1



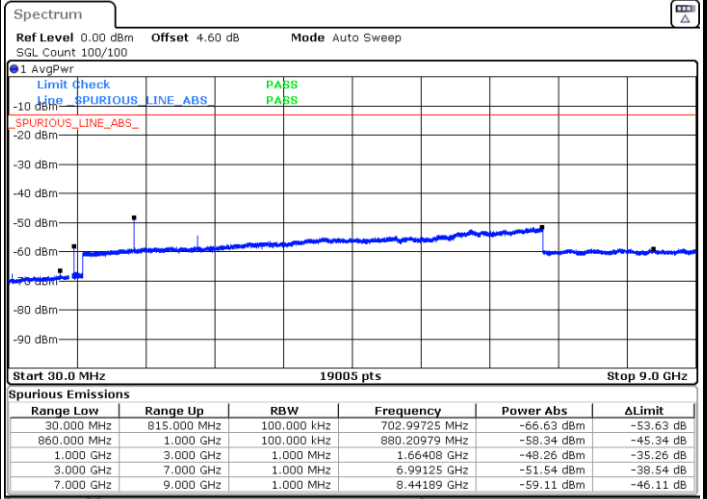
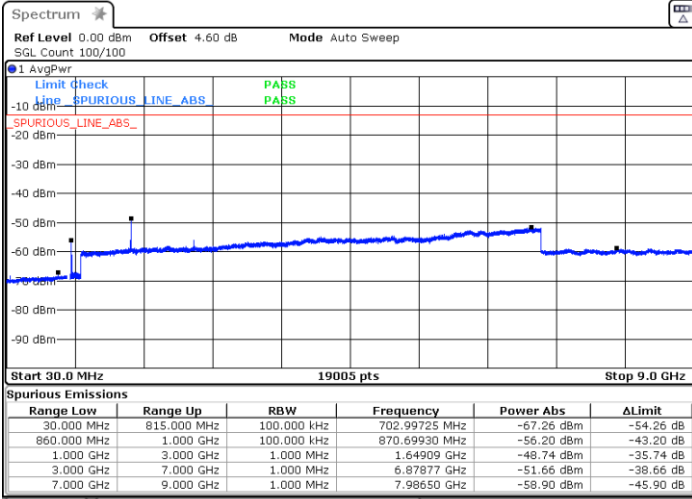
Date: 6 JUN. 2022 11:24:58



FR1 n5 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

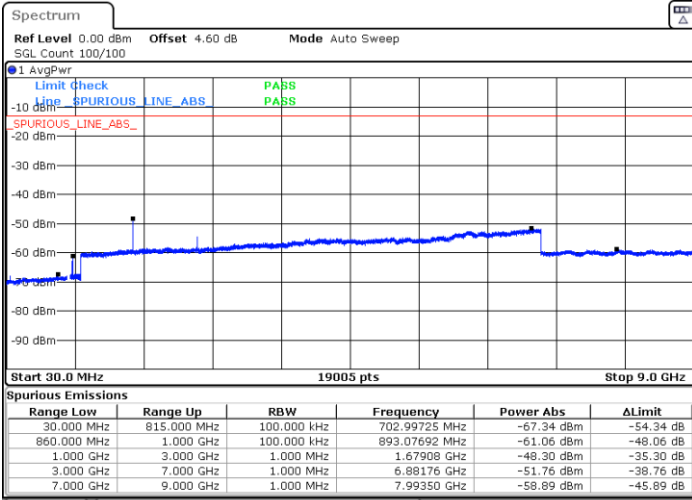
Middle Channel / 1RB1



Date: 6 JUN. 2022 12:00:58

Date: 6 JUN. 2022 12:03:45

Highest Channel / 1RB1



Date: 6 JUN. 2022 12:05:16