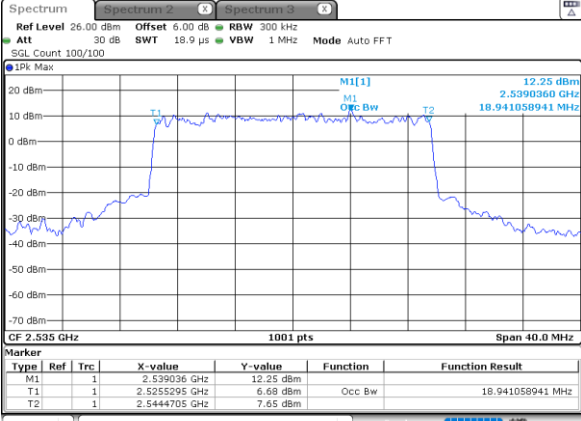




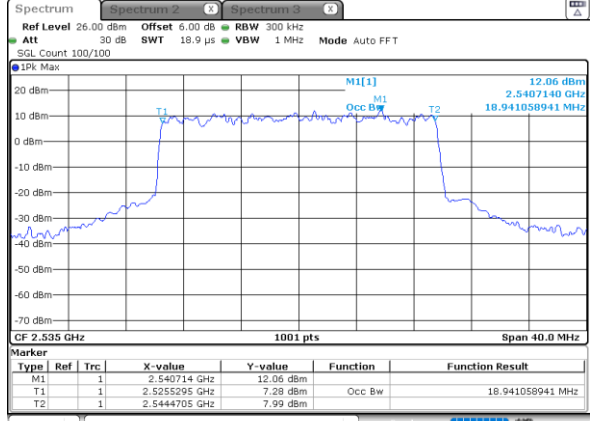
FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



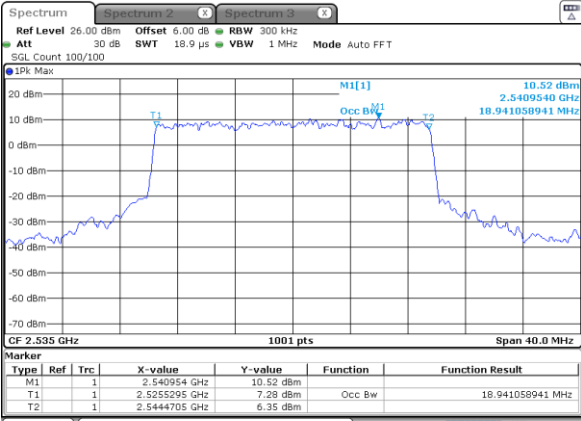
Date: 8,NOV,2022 10:06:17

16QAM



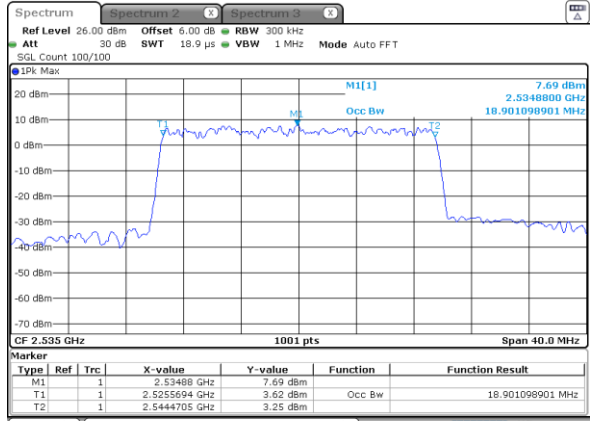
Date: 8,NOV,2022 10:06:01

64QAM



Date: 8,NOV,2022 10:05:45

256QAM

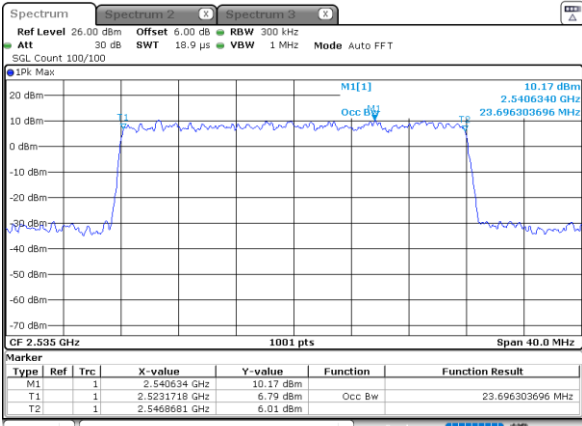


Date: 8,NOV,2022 10:05:27



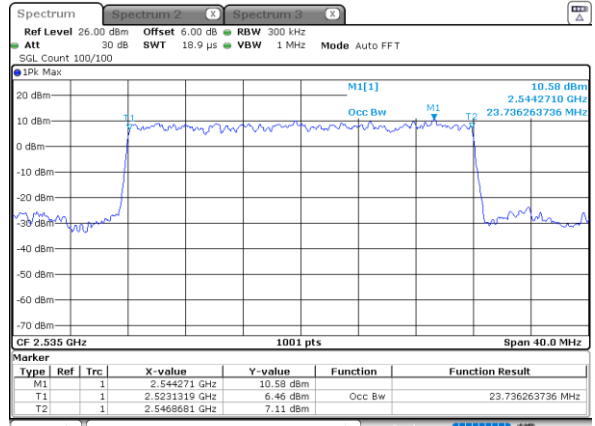
FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



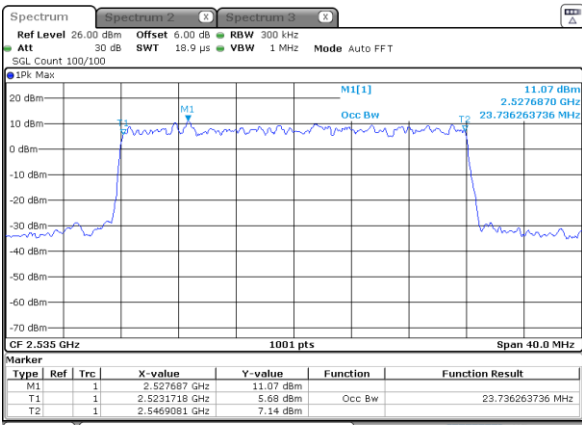
Date: 8,NOV,2022 10:07:15

16QAM



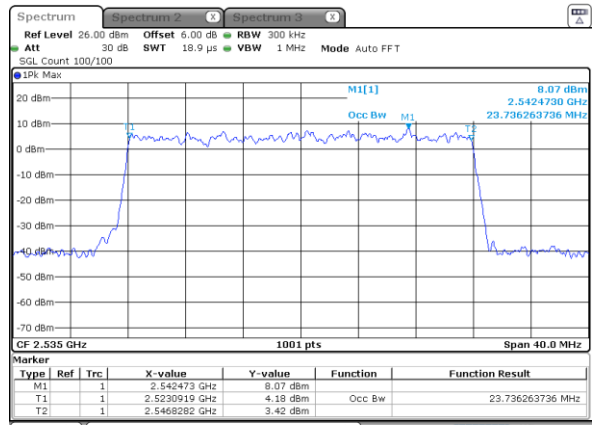
Date: 8,NOV,2022 10:07:32

64QAM



Date: 8,NOV,2022 10:07:47

256QAM

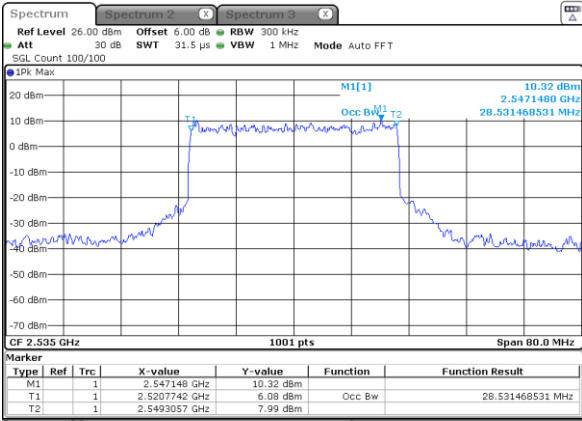


Date: 8,NOV,2022 10:08:02



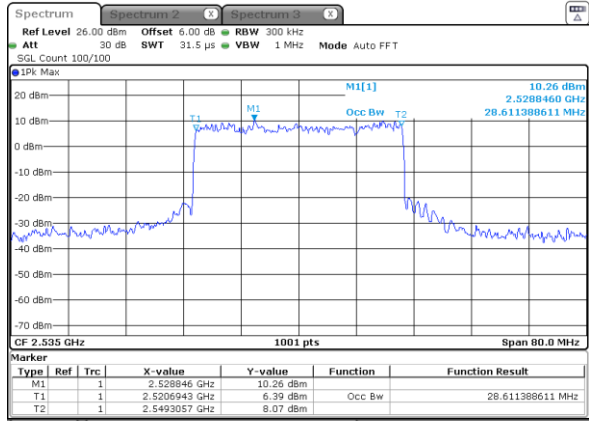
FR1 n7/ 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



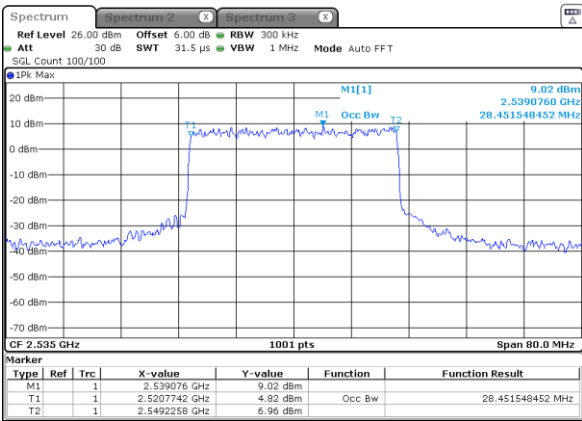
Date: 8,NOV,2022 10:01:53

16QAM



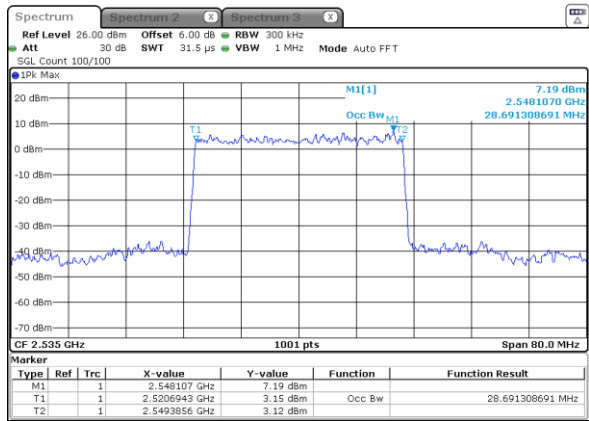
Date: 8,NOV,2022 10:02:26

64QAM



Date: 8,NOV,2022 10:02:43

256QAM

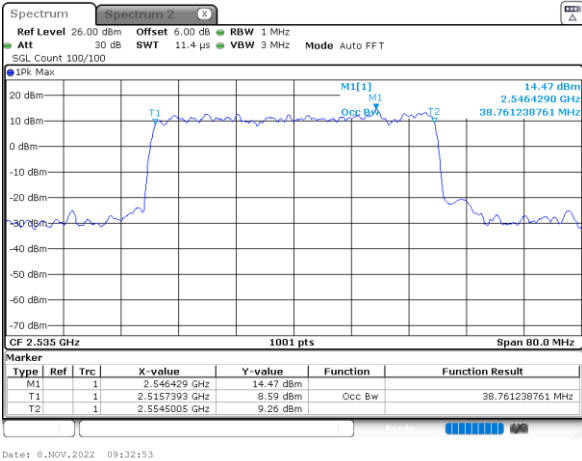


Date: 8,NOV,2022 10:03:38



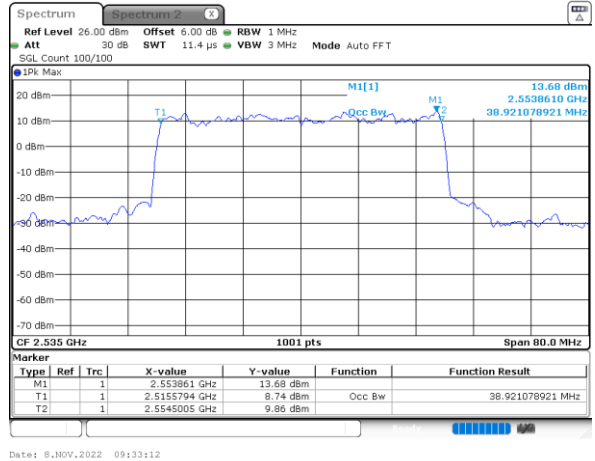
FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



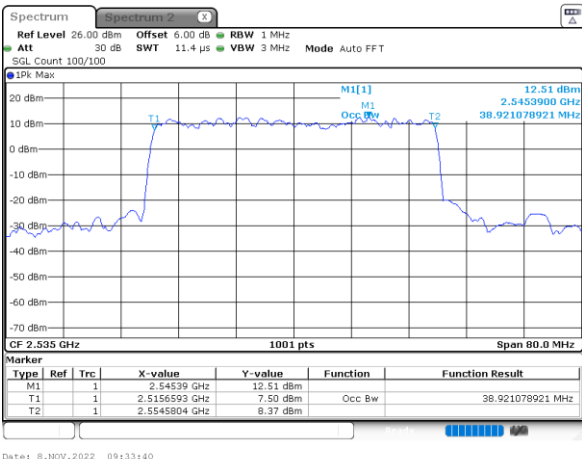
Date: 8,NOV,2022 09:32:53

16QAM



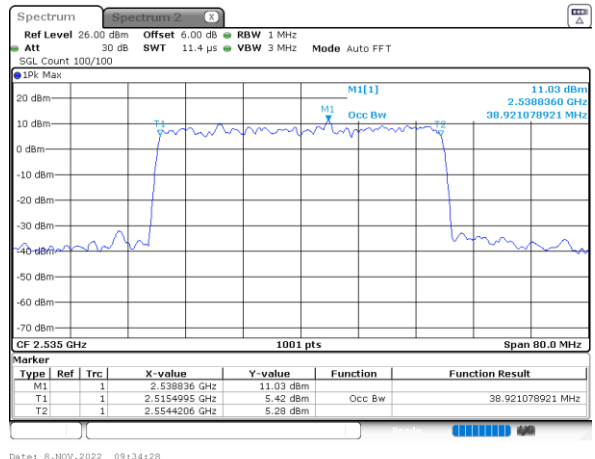
Date: 8,NOV,2022 09:33:12

64QAM



Date: 8,NOV,2022 09:33:40

256QAM



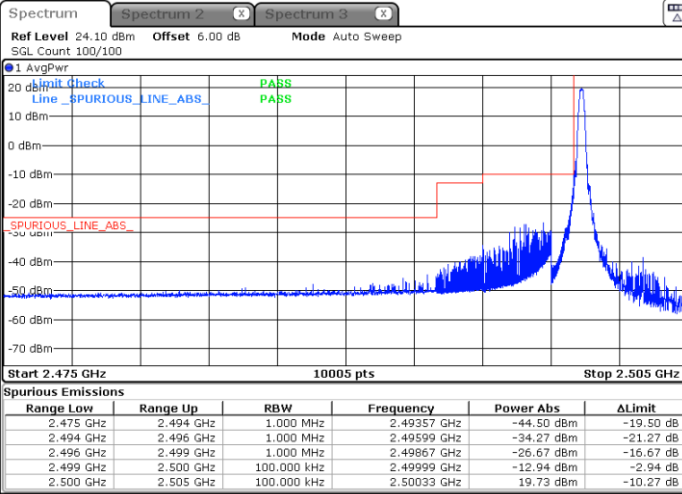
Date: 8,NOV,2022 09:34:28



# Conducted Band Edge

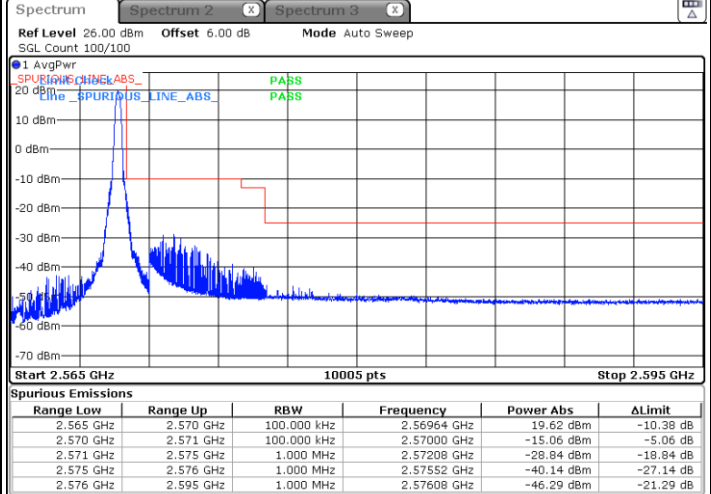
FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / 1RB0



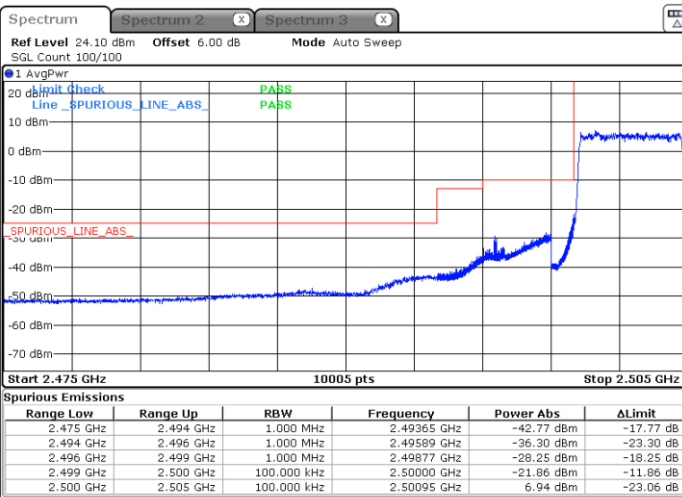
Date: 8.NOV.2022 10:53:28

## Highest Band Edge / 1RBmax



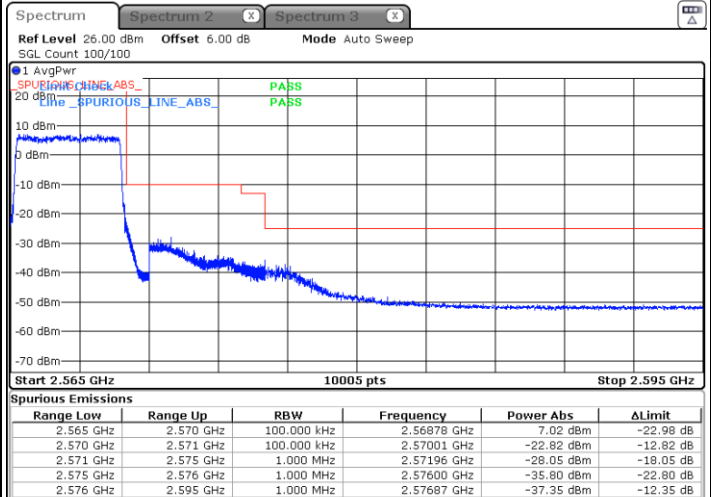
Date: 8.NOV.2022 11:04:22

## Lowest Band Edge / Full RB



Date: 8.NOV.2022 10:58:05

## Highest Band Edge / Full RB



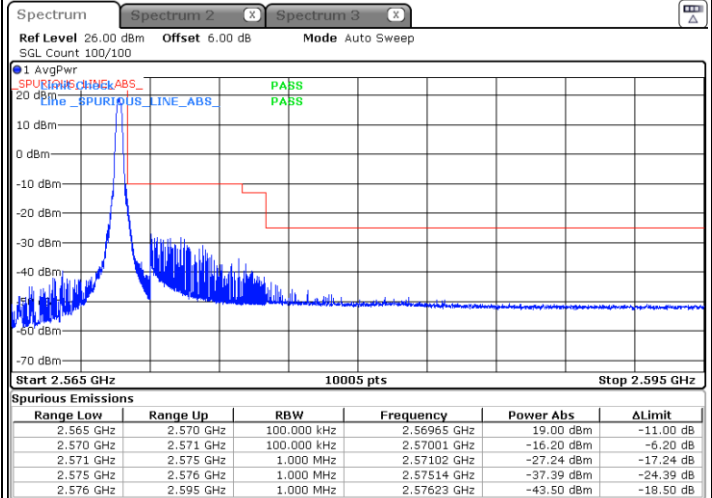
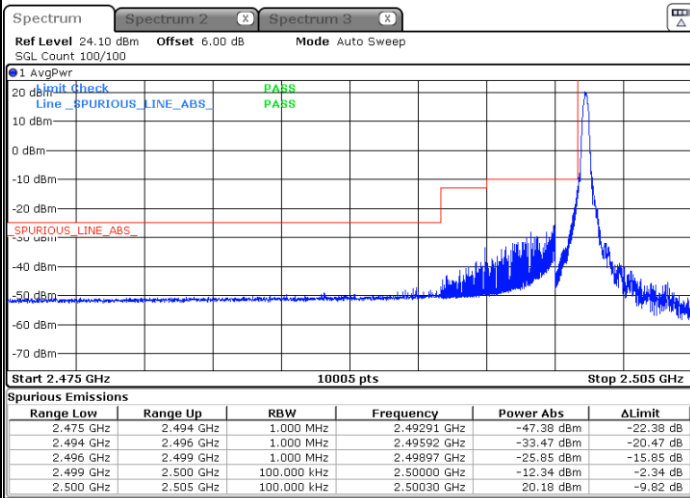
Date: 8.NOV.2022 11:00:11



FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

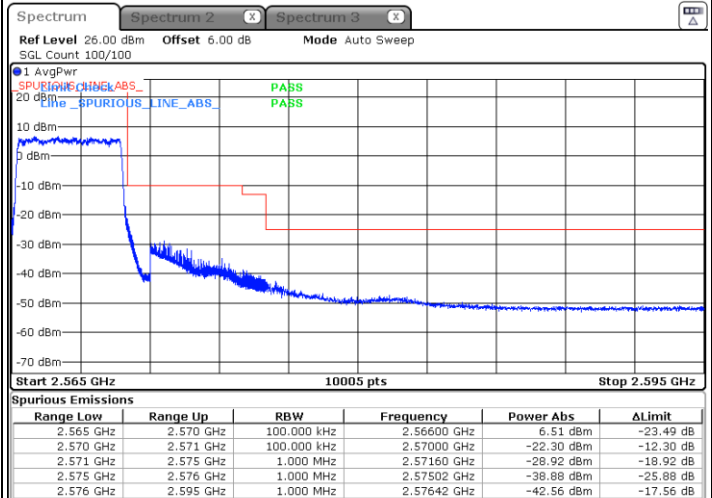
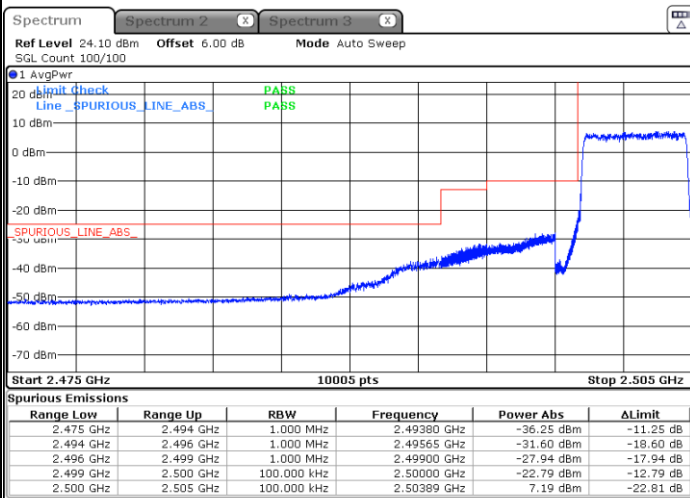


Date: 8.NOV.2022 10:54:26

Date: 8.NOV.2022 11:03:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8.NOV.2022 10:56:26

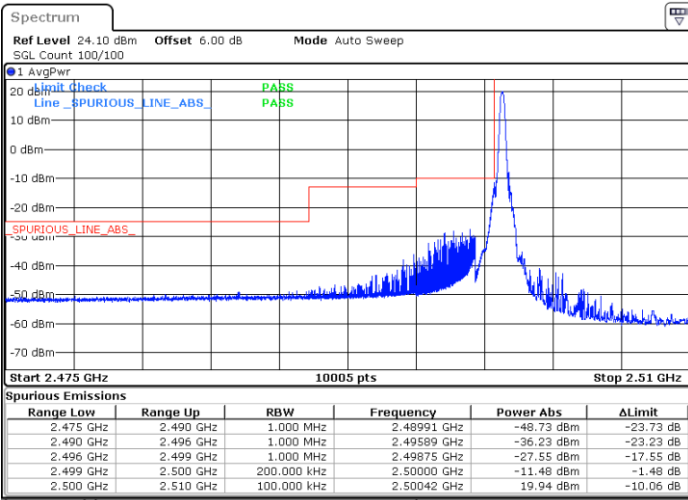
Date: 8.NOV.2022 10:59:32



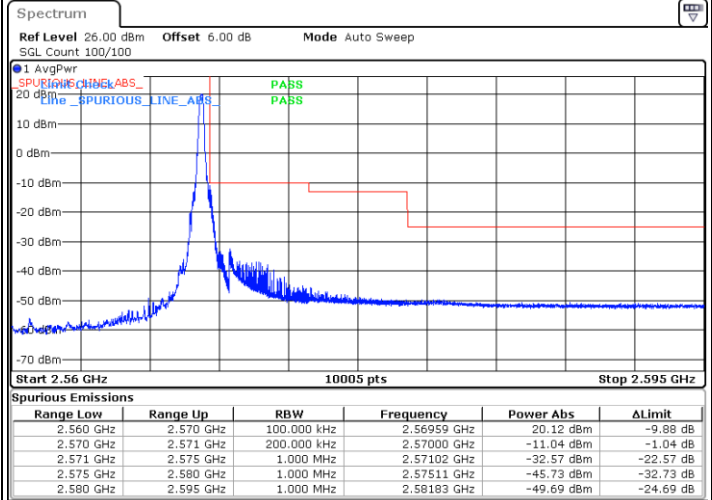
FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



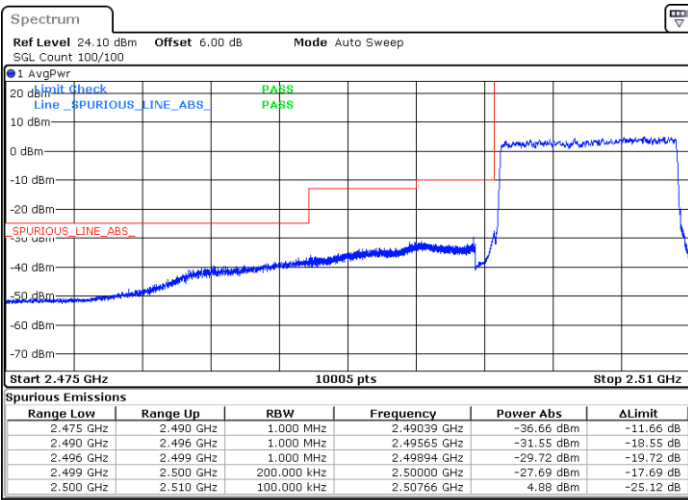
Date: 21.NOV.2022 14:19:28



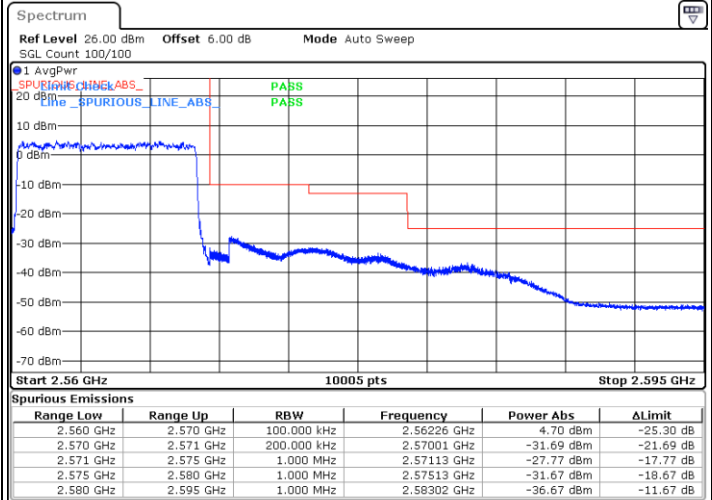
Date: 21.NOV.2022 14:24:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2022 14:22:47



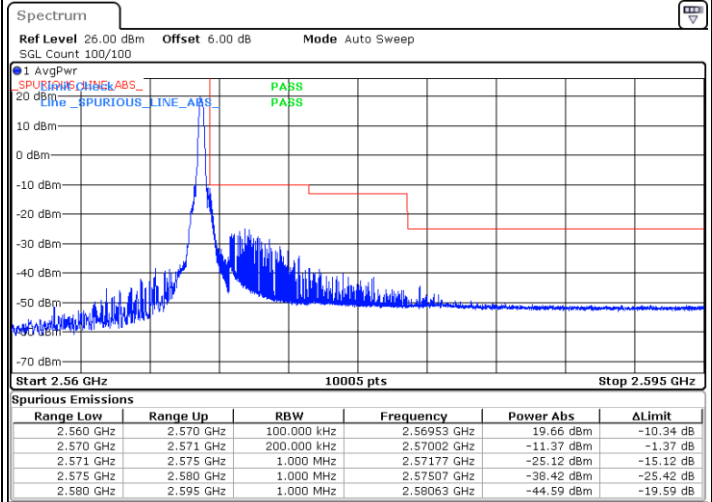
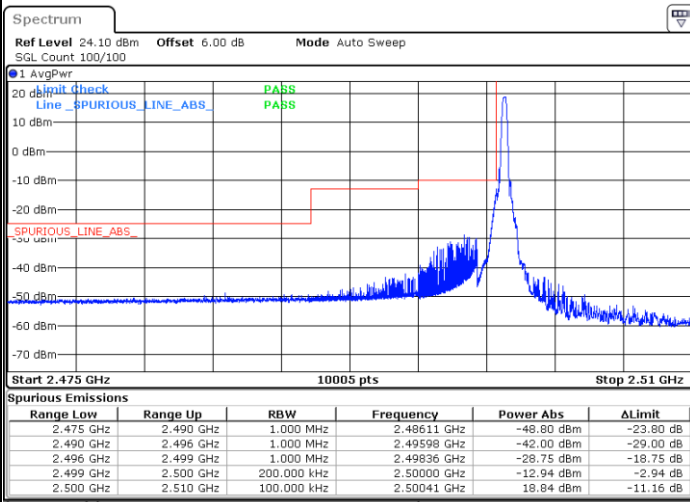
Date: 21.NOV.2022 14:23:39



FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

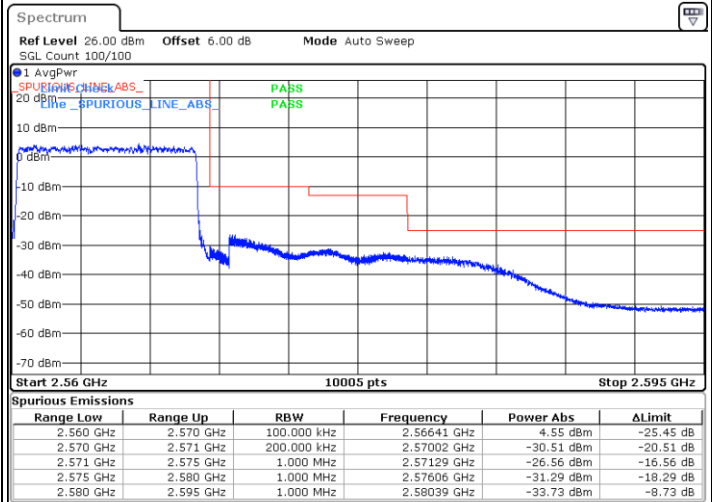
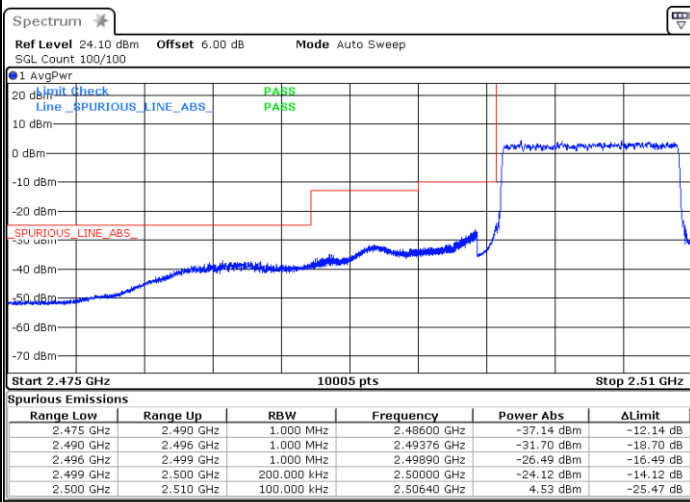


Date: 21.NOV.2022 14:20:41

Date: 21.NOV.2022 14:24:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2022 14:21:50

Date: 21.NOV.2022 14:23:55

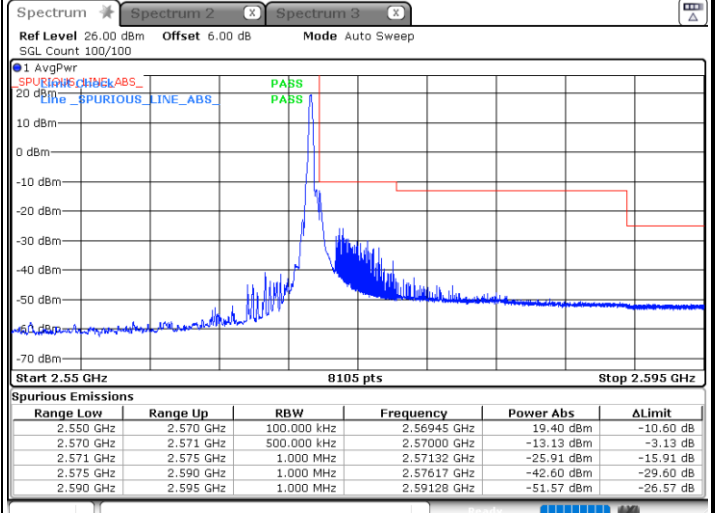
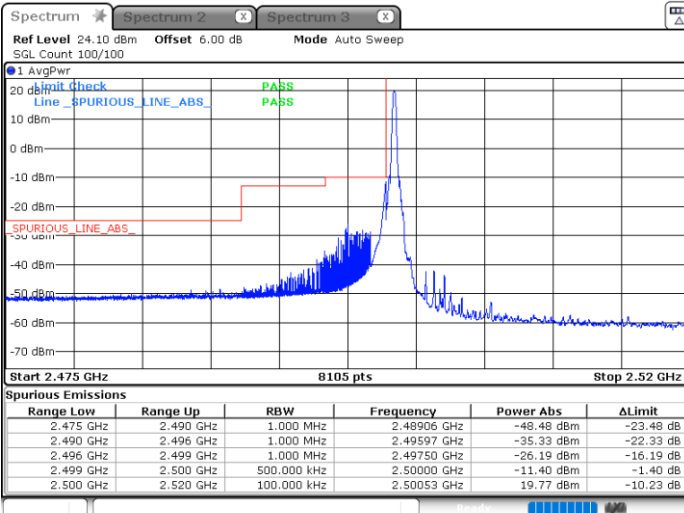




FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

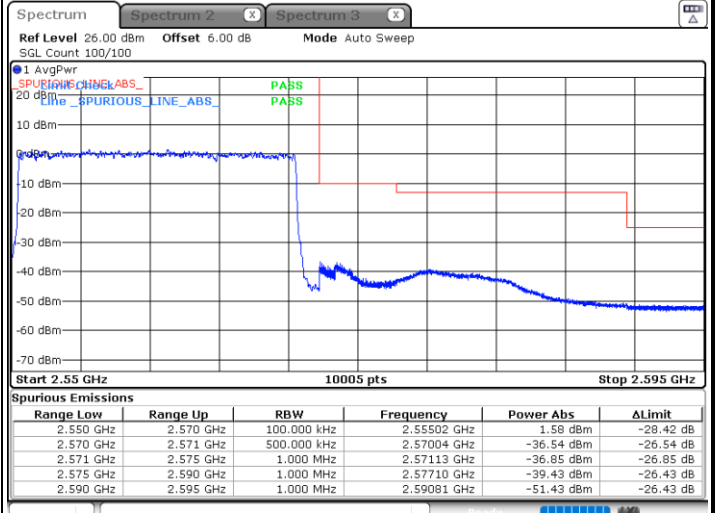
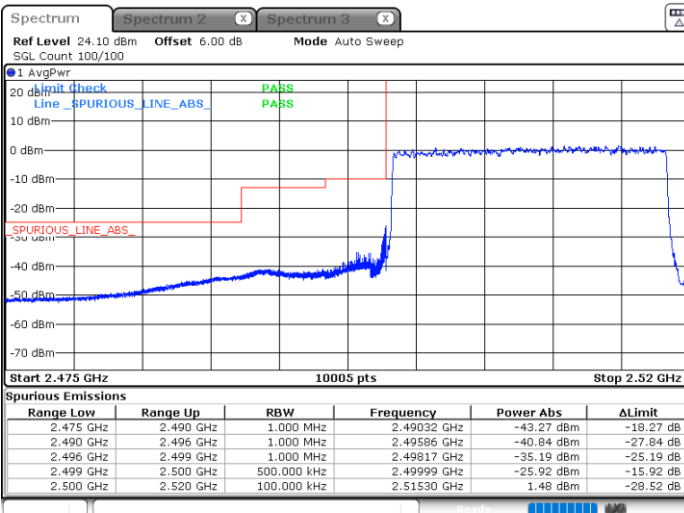


Date: 8.NOV.2022 10:31:46

Date: 8.NOV.2022 10:26:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8.NOV.2022 10:37:38

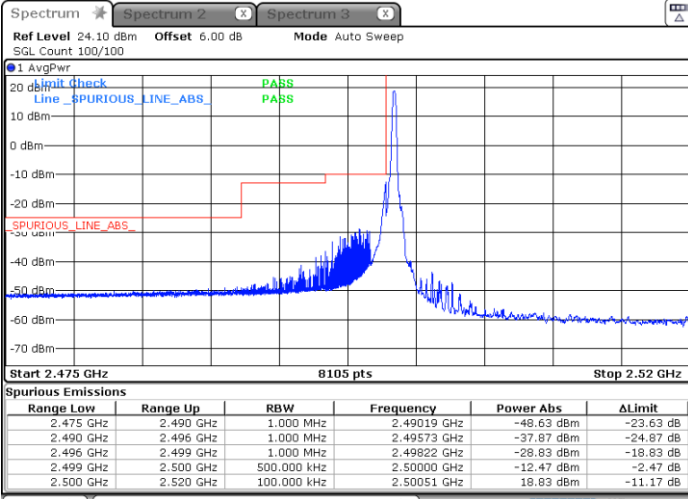
Date: 8.NOV.2022 10:24:39



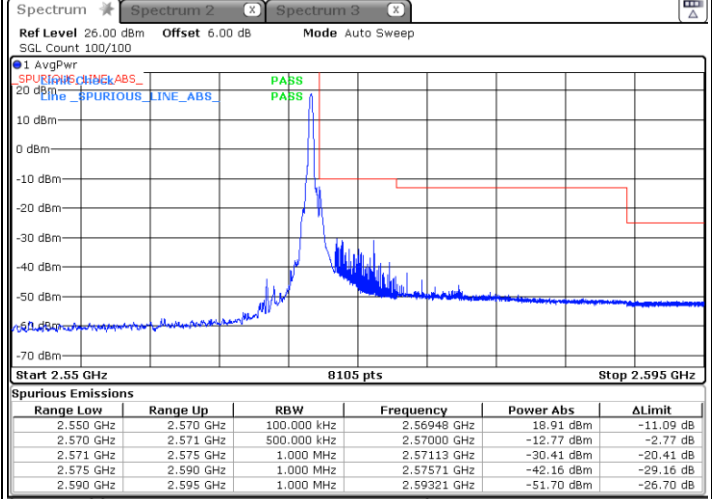
FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



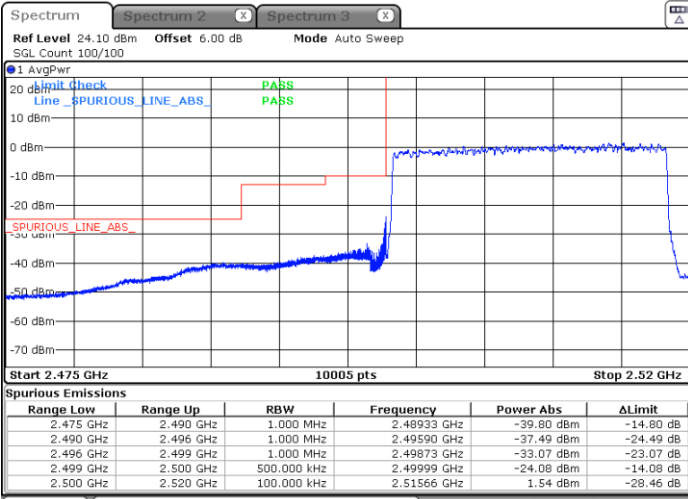
Date: 8.NOV.2022 10:35:27



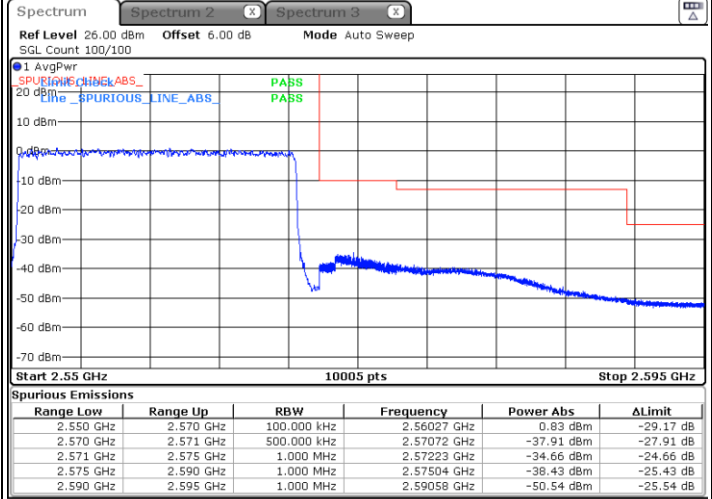
Date: 8.NOV.2022 10:27:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8.NOV.2022 10:36:08



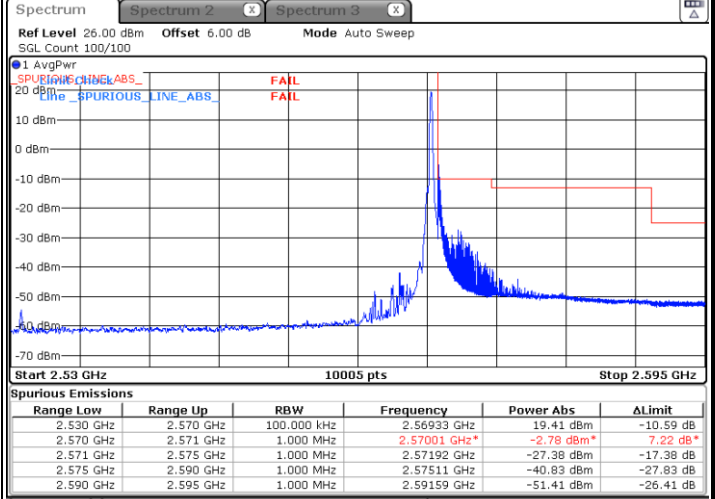
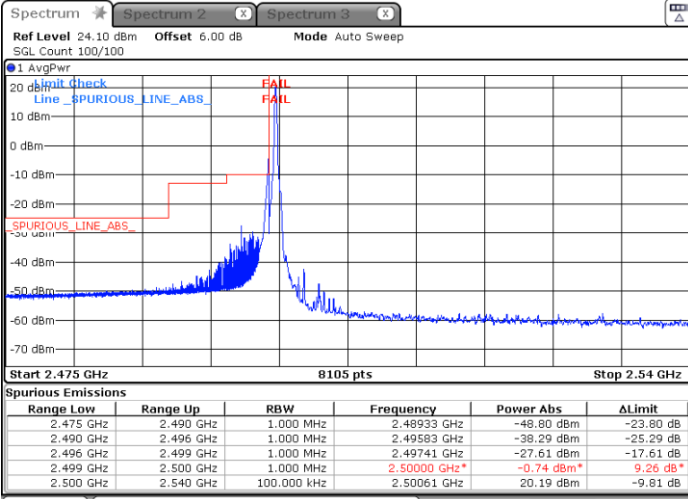
Date: 8.NOV.2022 10:24:24



FR1 n7 / 40MHz / DFT-s-OFDM / PI/2 BPSK

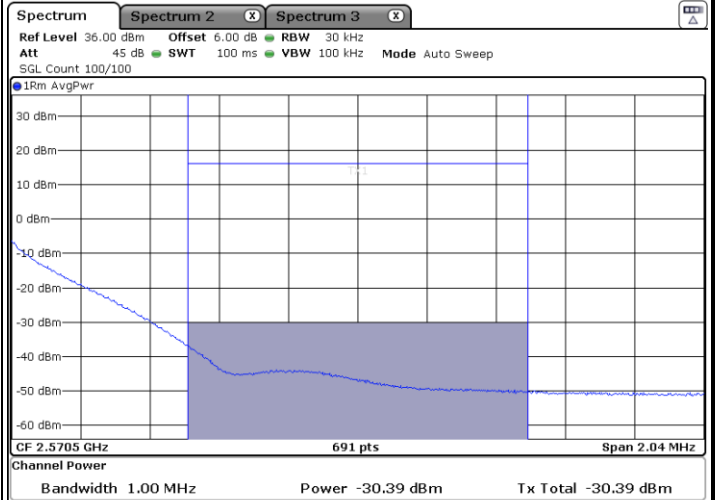
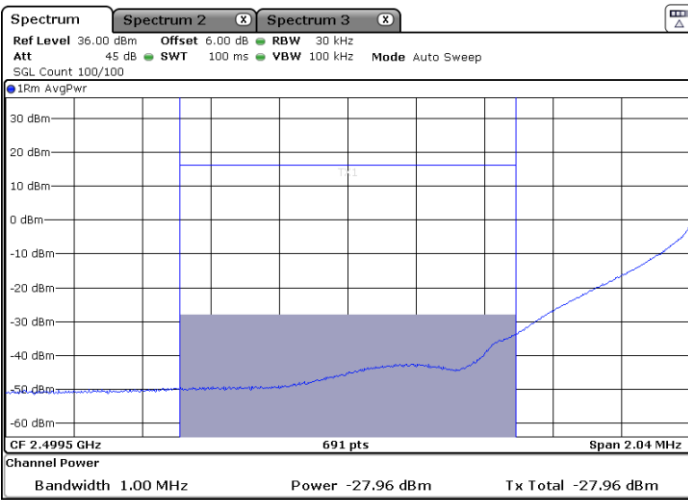
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



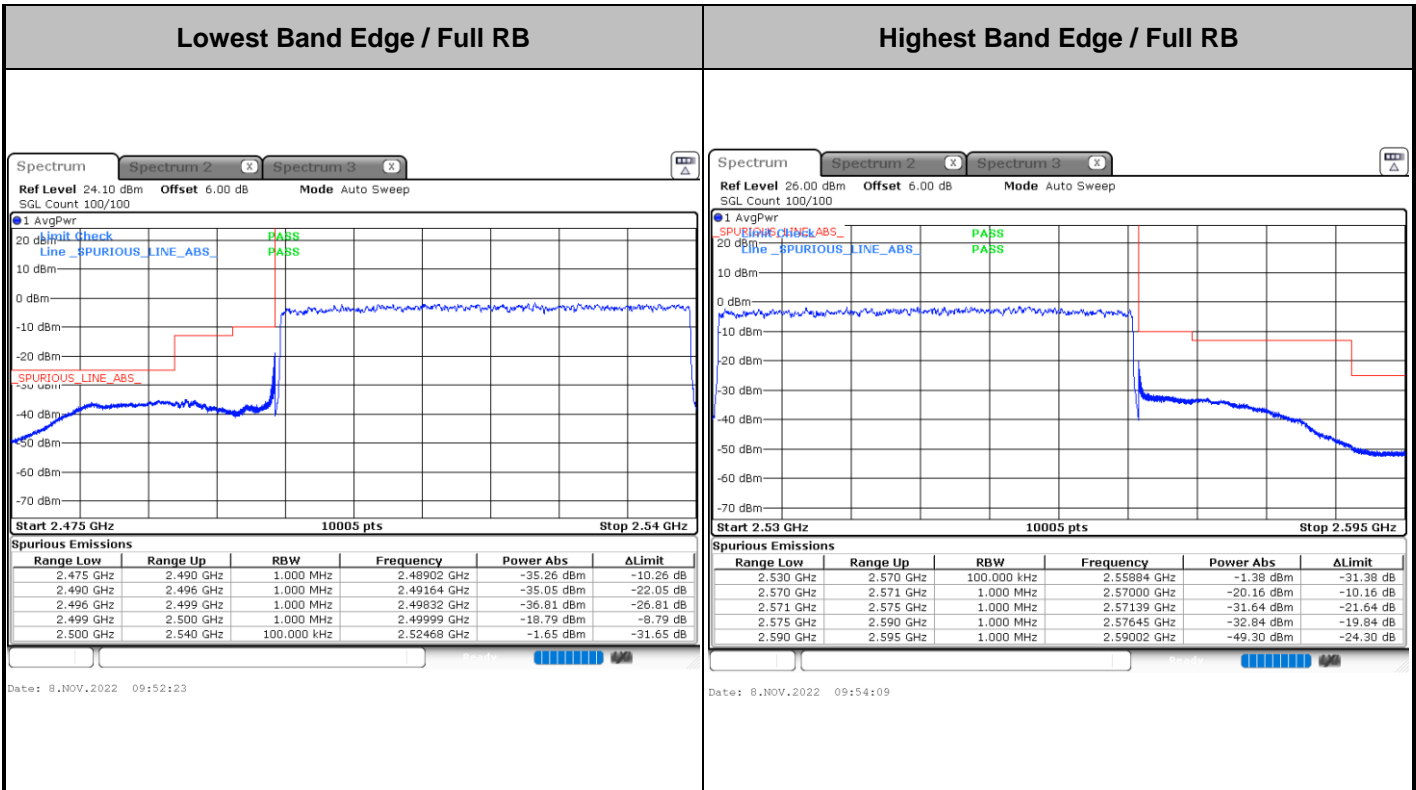
Date: 8.NOV.2022 09:48:19

Date: 8.NOV.2022 09:58:15



Date: 8.NOV.2022 11:07:23

Date: 8.NOV.2022 11:09:12

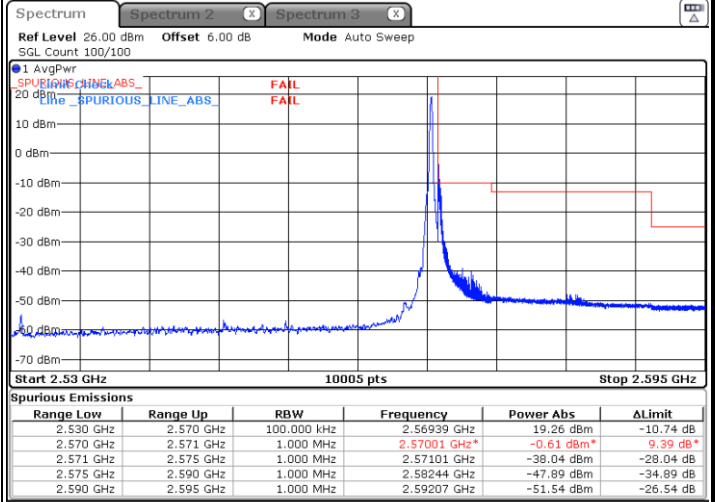
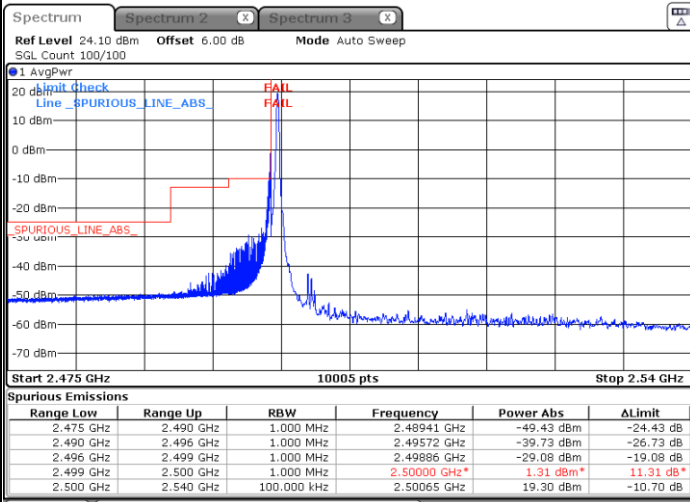




FR1 n7 / 40MHz / DFT-s-OFDM / PI/2 QPSK

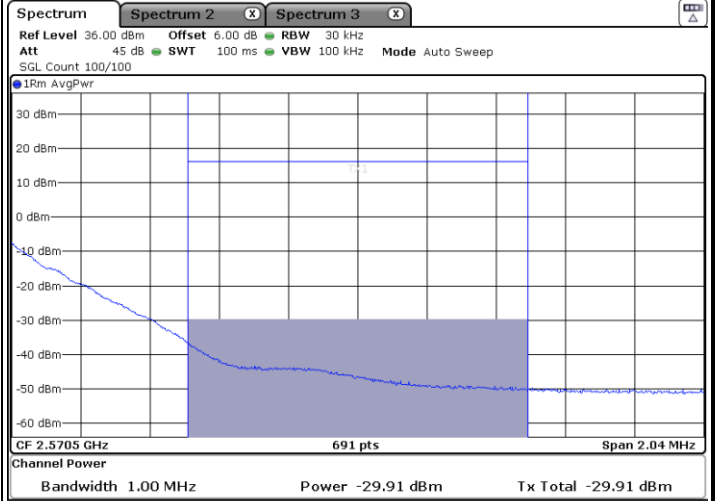
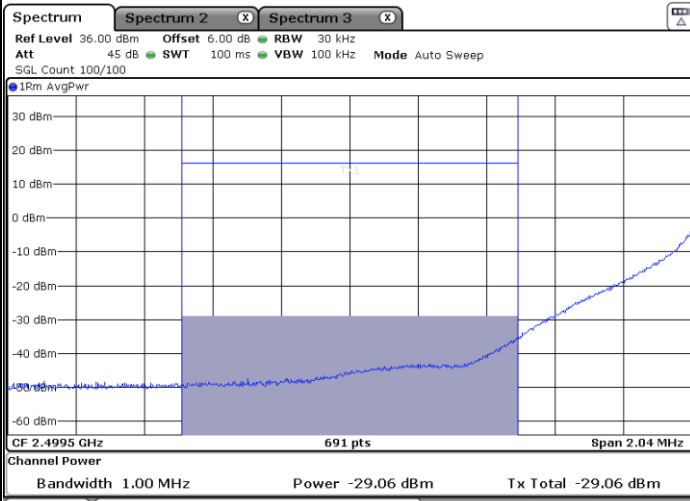
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



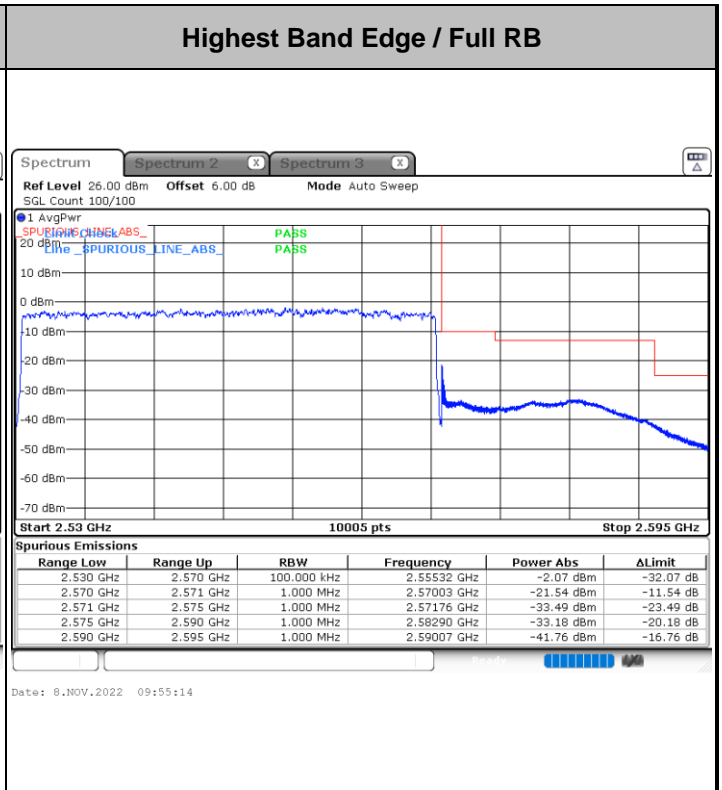
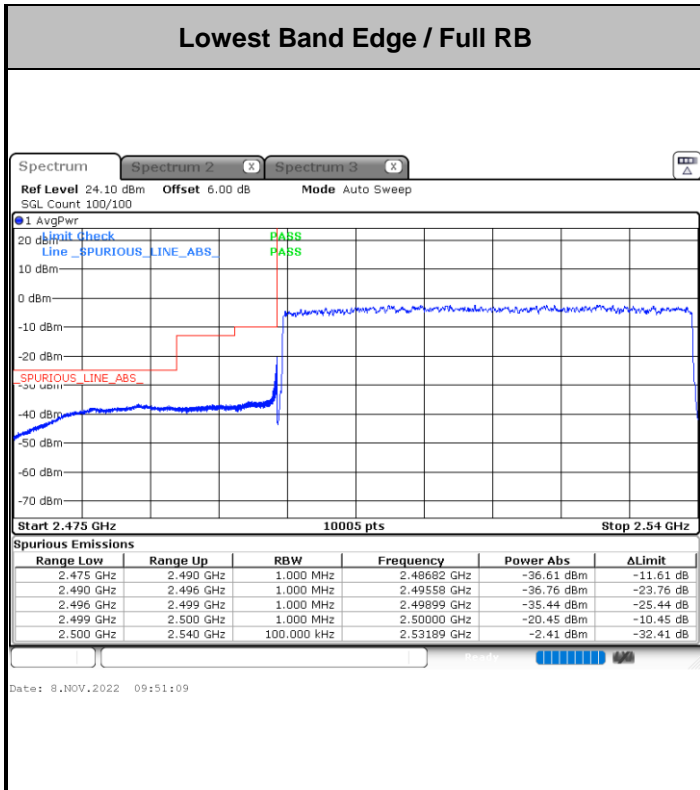
Date: 8.NOV.2022 09:49:57

Date: 8.NOV.2022 09:57:29



Date: 8.NOV.2022 11:07:52

Date: 8.NOV.2022 11:08:42



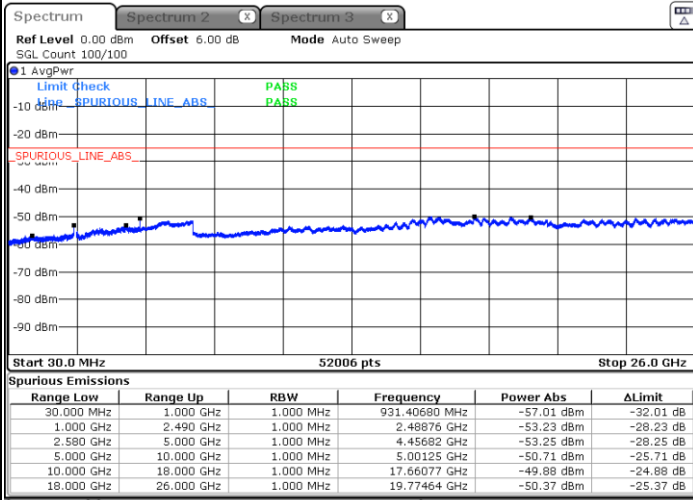


# Conducted Spurious Emission

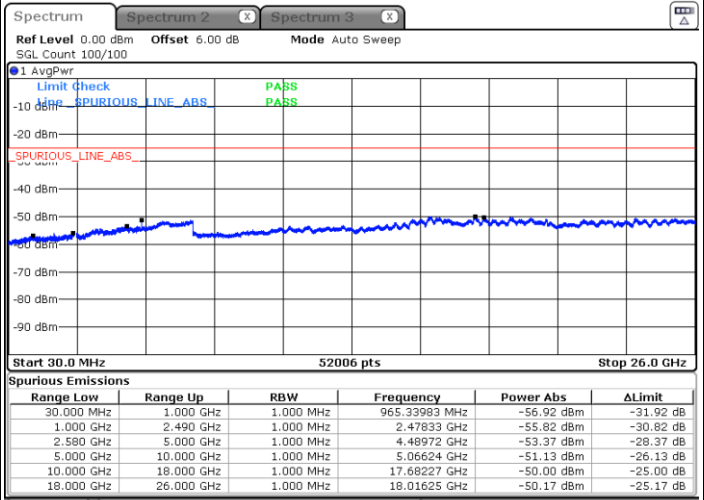
FR1 n7 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

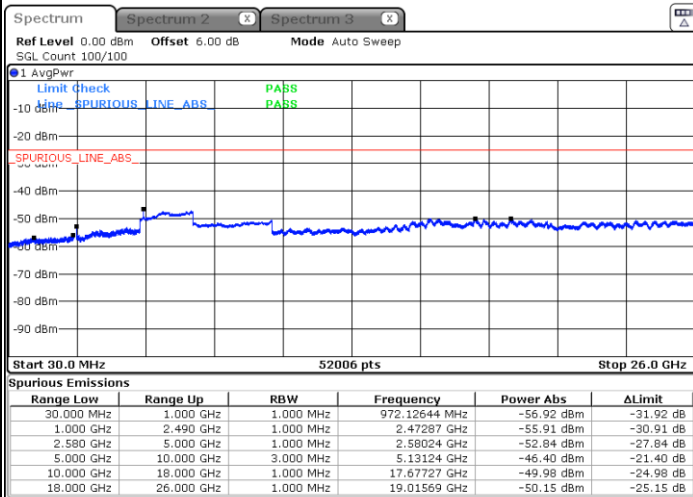


Date: 8.NOV.2022 10:52:45



Date: 8.NOV.2022 10:48:20

Highest Channel / 1RB1



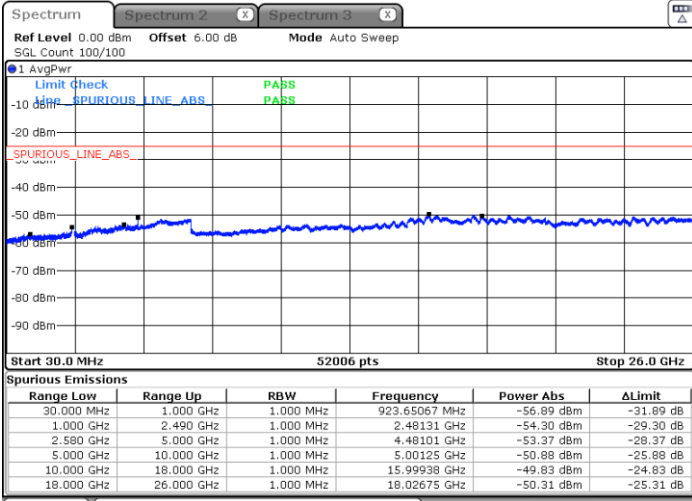
Date: 8.NOV.2022 11:01:18



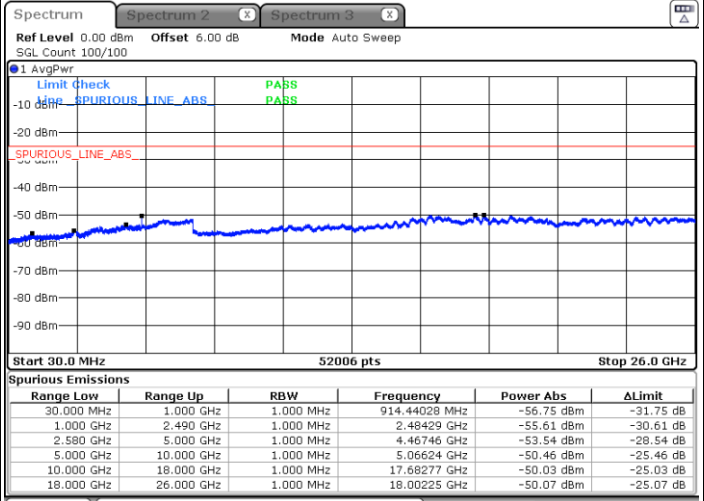
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

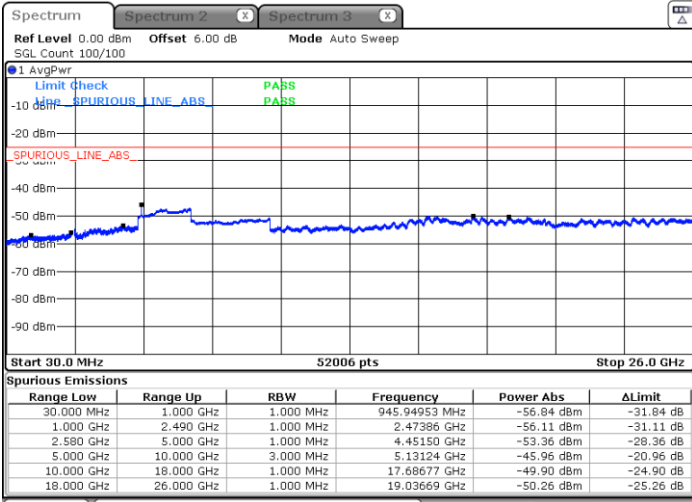


Date: 8.NOV.2022 10:51:45



Date: 8.NOV.2022 10:49:45

Highest Channel / 1RB1



Date: 8.NOV.2022 11:02:30

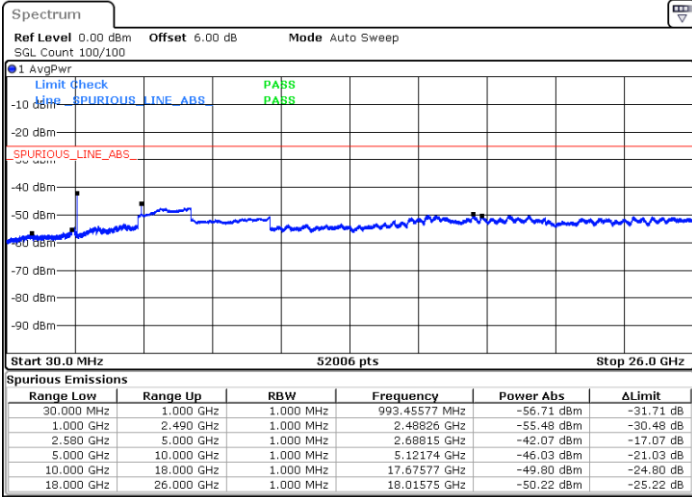




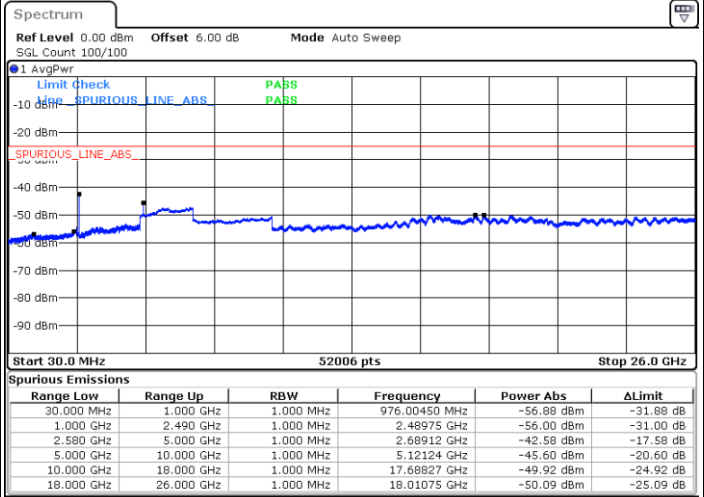
FR1 n7 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

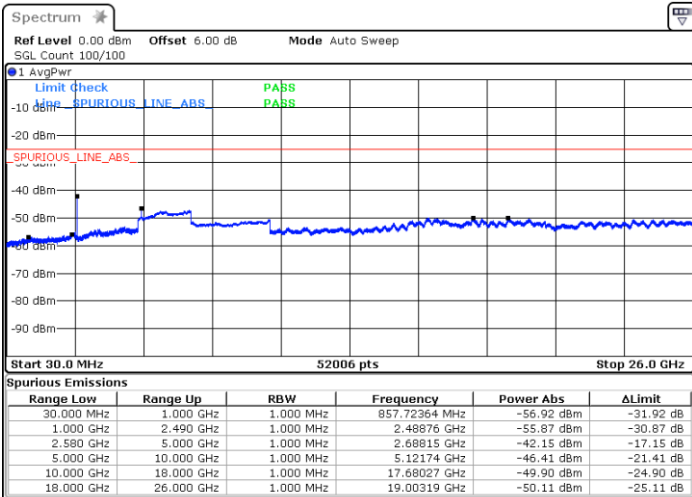


Date: 21.NOV.2022 14:32:24



Date: 21.NOV.2022 14:31:14

Highest Channel / 1RB1



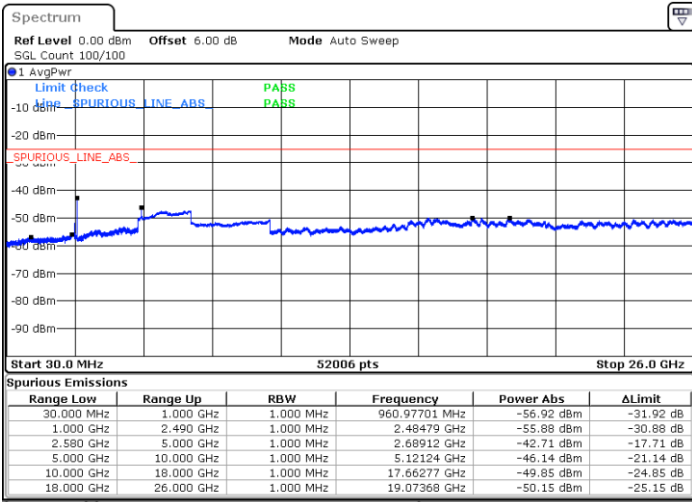
Date: 21.NOV.2022 14:26:54



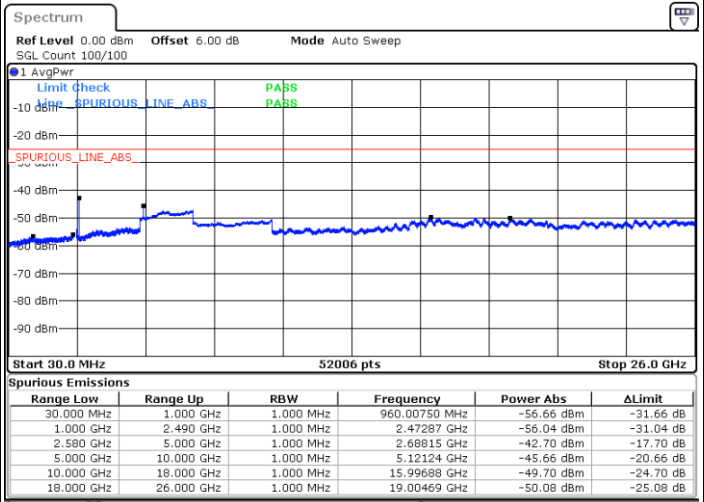
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

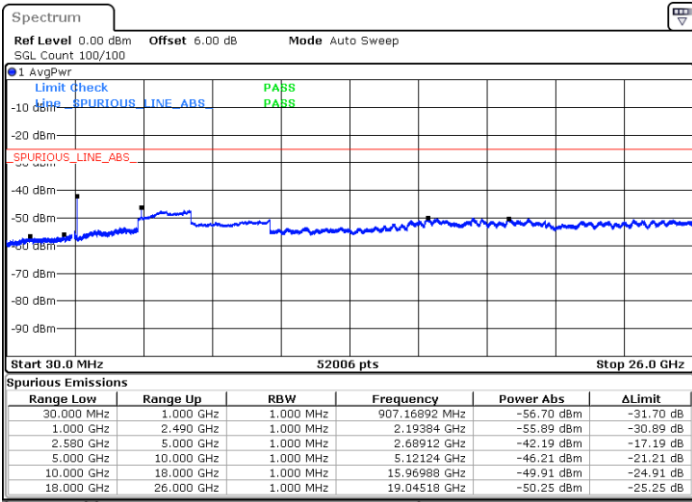


Date: 21.NOV.2022 14:33:50



Date: 21.NOV.2022 14:30:23

Highest Channel / 1RB1



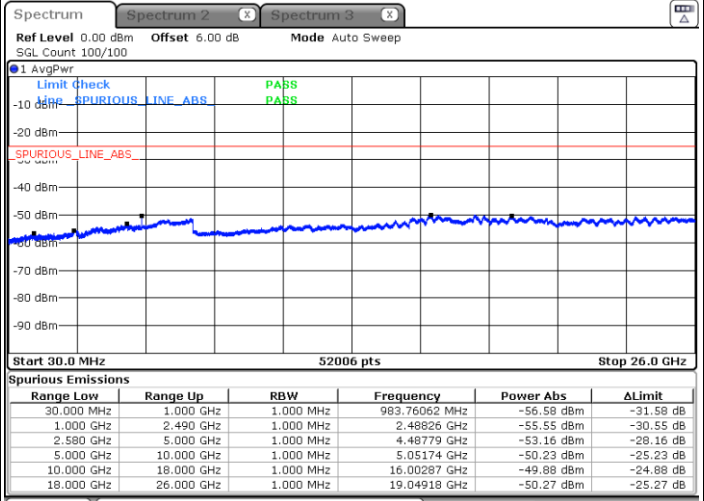
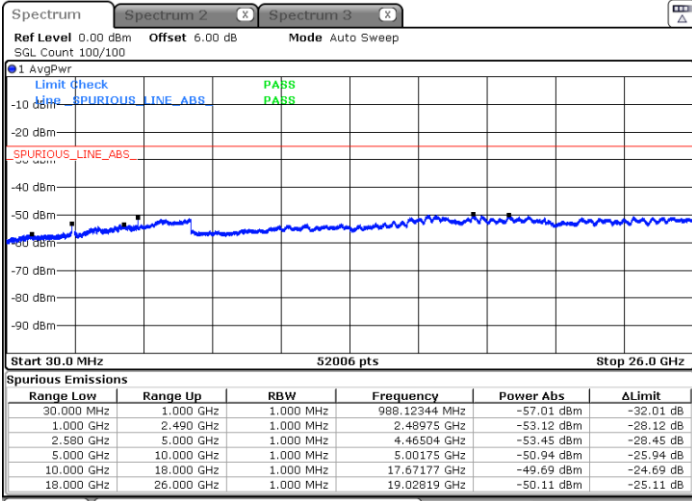
Date: 21.NOV.2022 14:28:46



FR1 n7 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

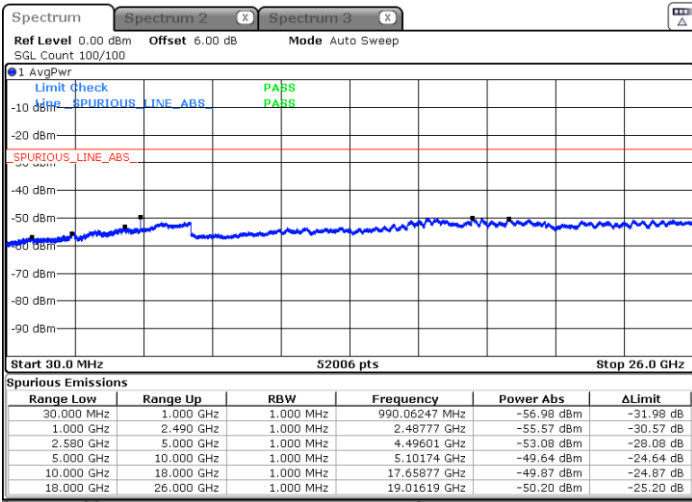
Middle Channel / 1RB1



Date: 8.NOV.2022 10:20:00

Date: 8.NOV.2022 10:09:59

Highest Channel / 1RB1



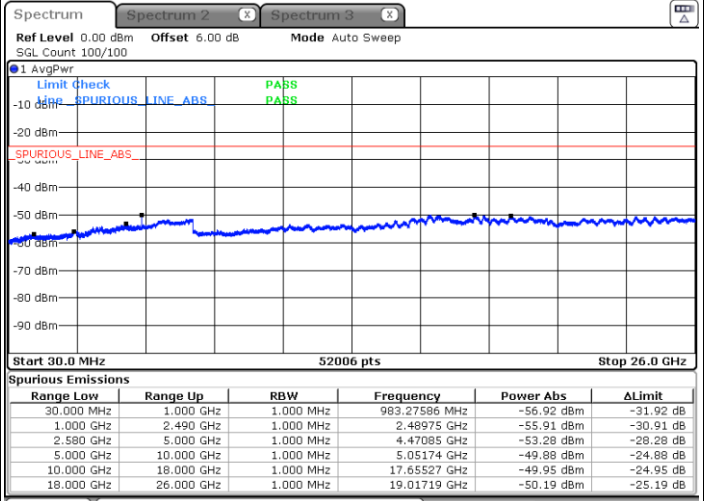
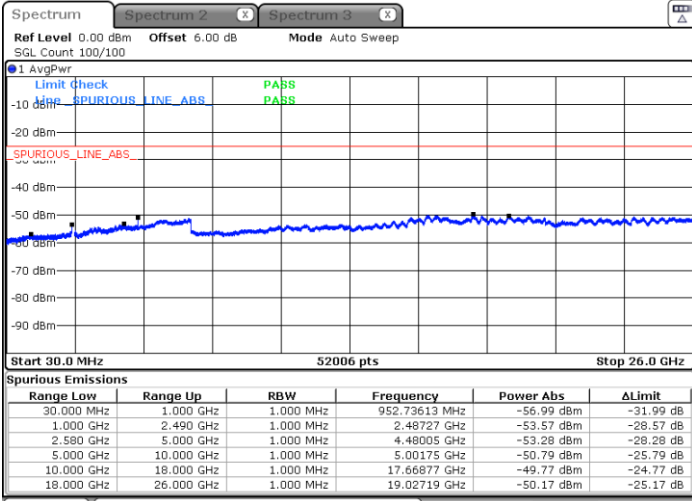
Date: 8.NOV.2022 10:21:47



FR1 n7 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

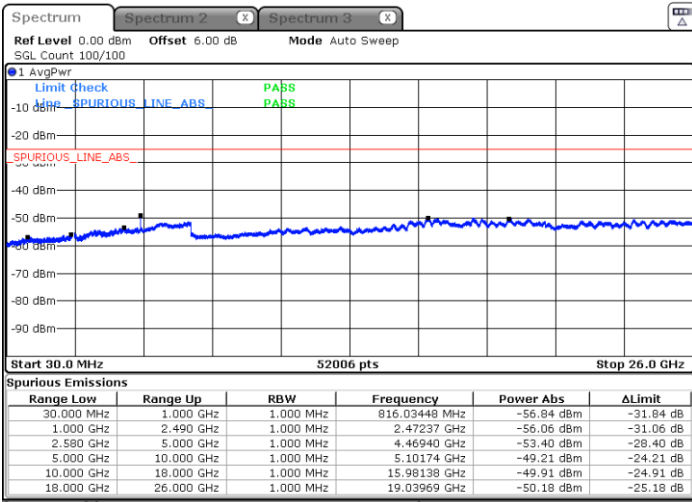
Middle Channel / 1RB1



Date: 8.NOV.2022 10:15:08

Date: 8.NOV.2022 10:13:49

Highest Channel / 1RB1



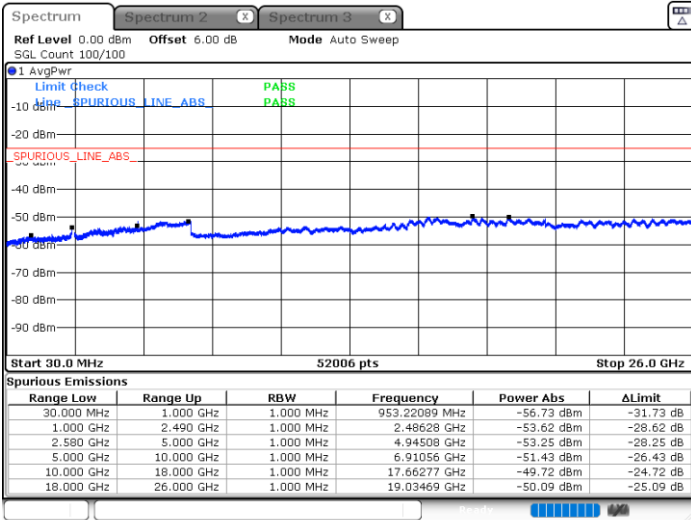
Date: 8.NOV.2022 10:23:08



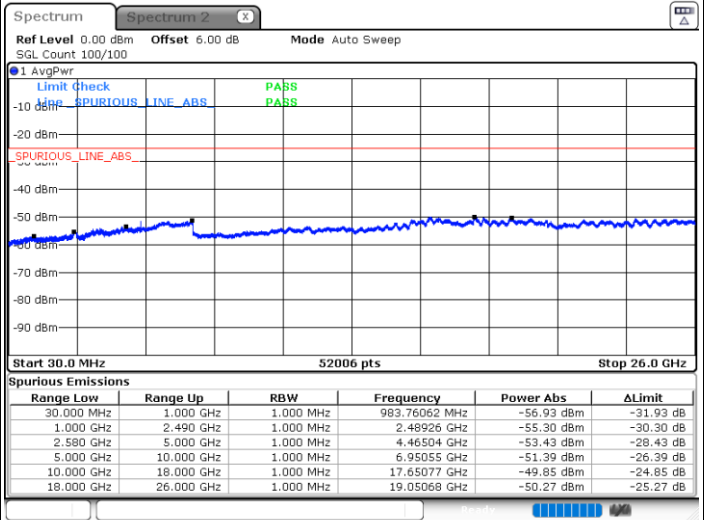
FR1 n7 / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

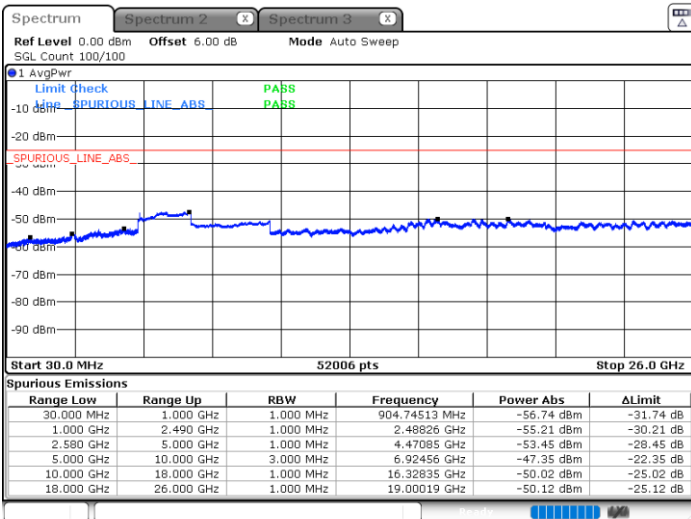


Date: 8.NOV.2022 09:43:58



Date: 8.NOV.2022 09:29:37

Highest Channel / 1RB1



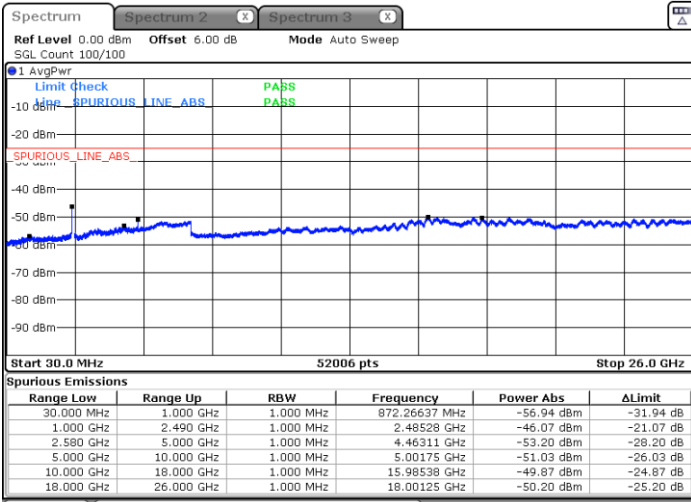
Date: 8.NOV.2022 09:59:18



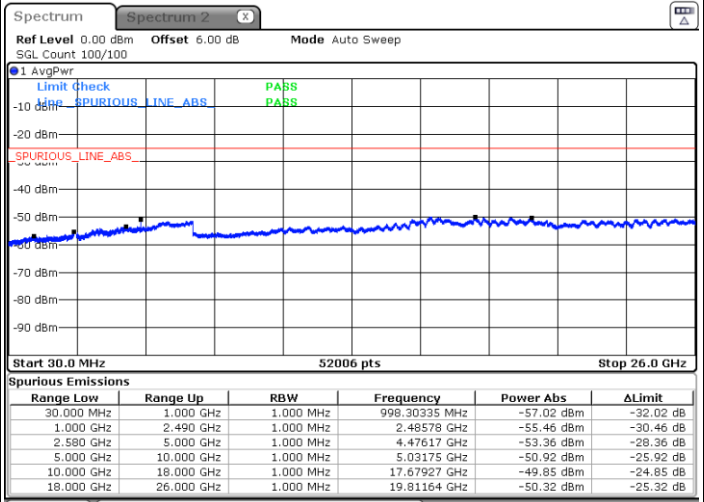
FR1 n7 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

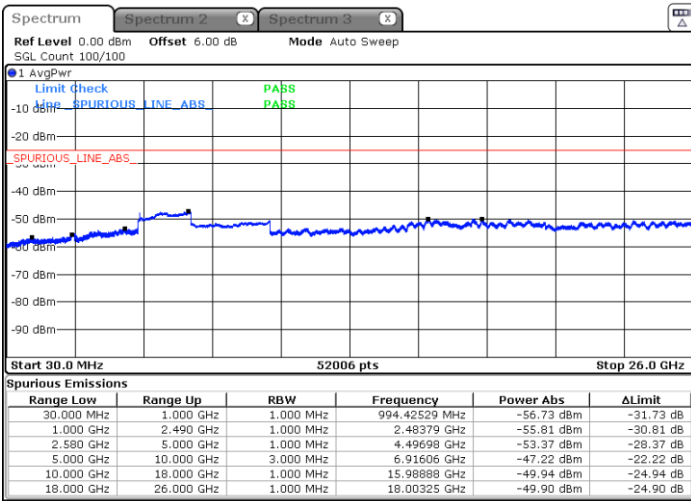


Date: 8.NOV.2022 09:46:58



Date: 8.NOV.2022 09:30:45

Highest Channel / 1RB1



Date: 8.NOV.2022 10:00:07



Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

Note:

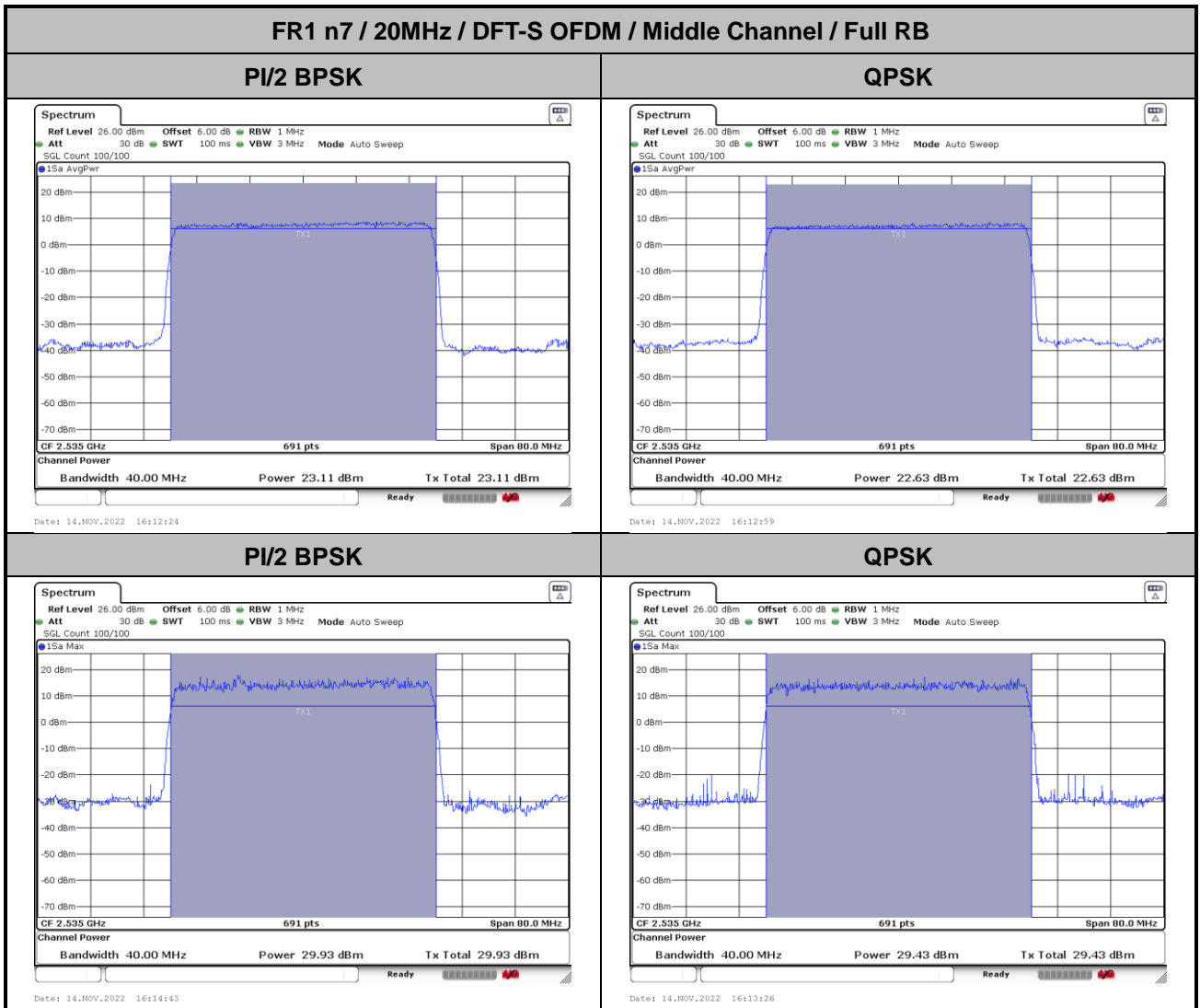
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n7(other PA)

## 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	6.82	6.8			PASS







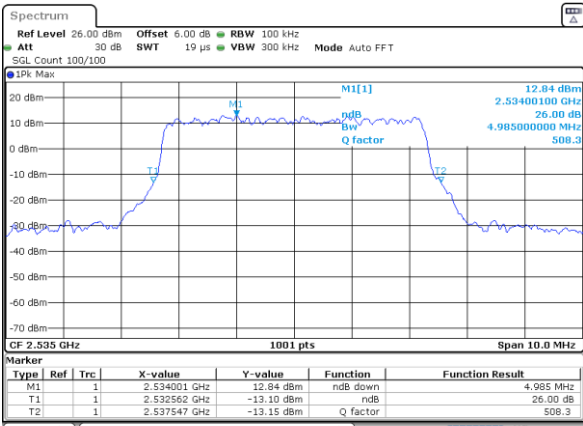
**26dB Bandwidth**

Mode	FR1 n7 : 26dBW (MHz) / CP OFDM						
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>25MHz</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>QPSK</b>
<b>Middle CH</b>	4.99	10.29	15.08	20.06	24.74	29.69	41
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>25MHz</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>16QAM</b>
<b>Middle CH</b>	5.28	10.07	15.11	19.74	24.58	29.85	41.08
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>25MHz</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>64QAM</b>
<b>Middle CH</b>	5.28	10.19	15.05	20.1	24.66	29.69	41
<b>BW</b>	<b>5MHz</b>	<b>10MHz</b>	<b>15MHz</b>	<b>20MHz</b>	<b>25MHz</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>256QAM</b>
<b>Middle CH</b>	5.03	10.19	15.08	19.74	24.70	29.57	41



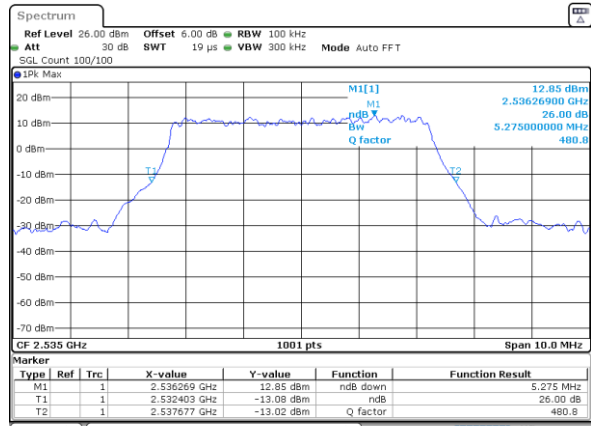
FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



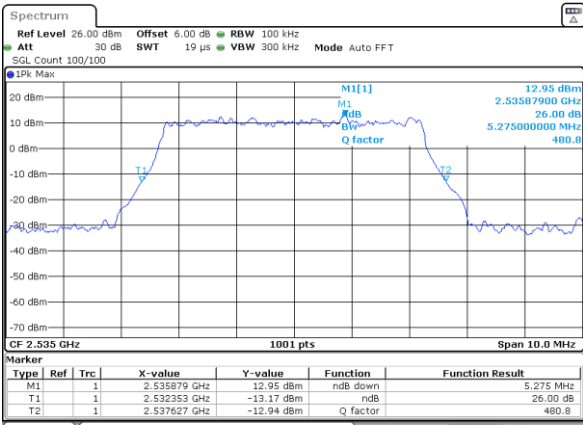
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16QAM



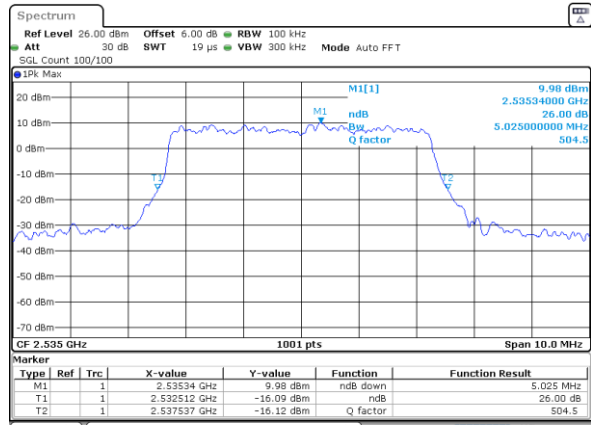
Date: 14.NOV.2022 16:24:40

64QAM



Date: 14.NOV.2022 16:24:57

256QAM

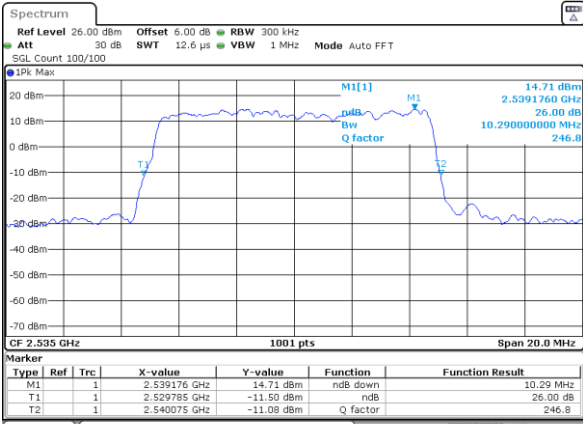


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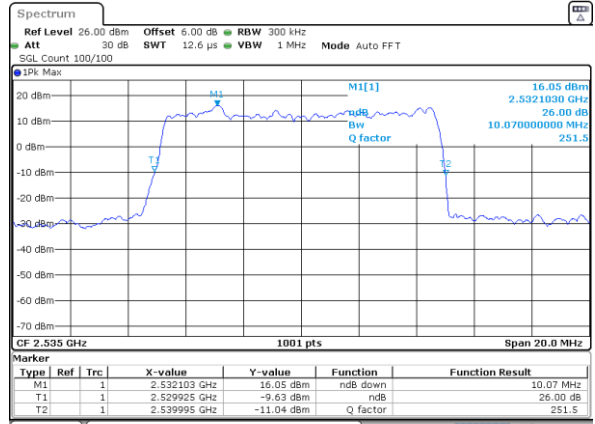
FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



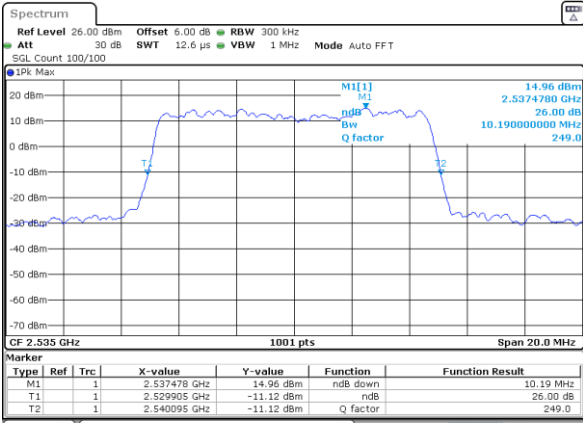
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16QAM



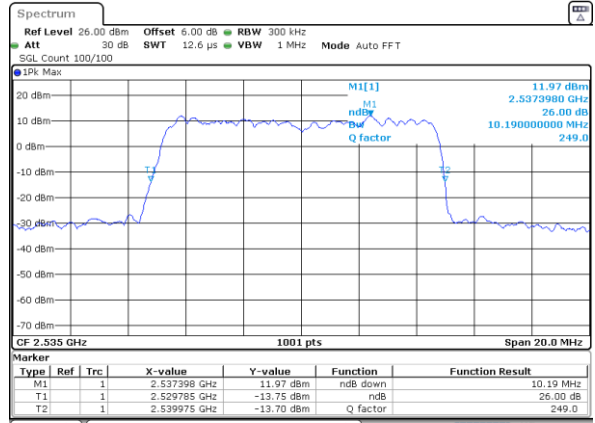
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64QAM



Date: 14.NOV.2022 16:23:11

256QAM

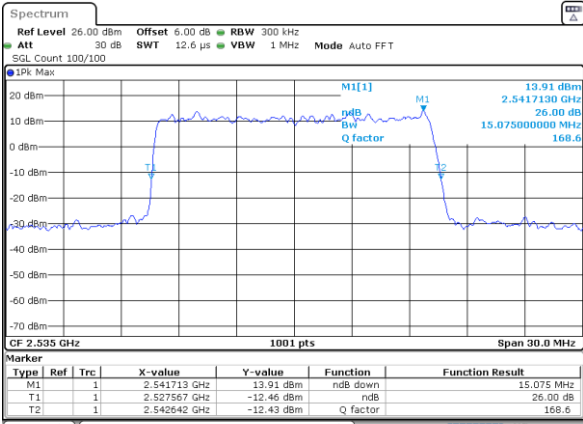


Date: 14.NOV.2022 16:22:56



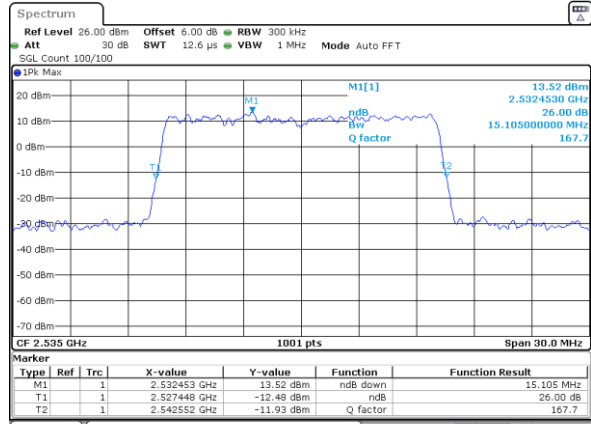
FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



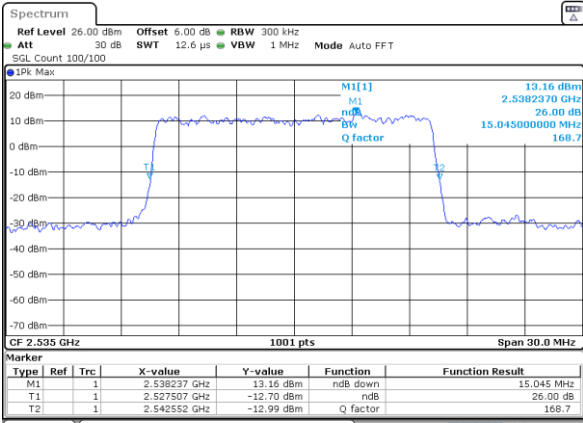
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16QAM



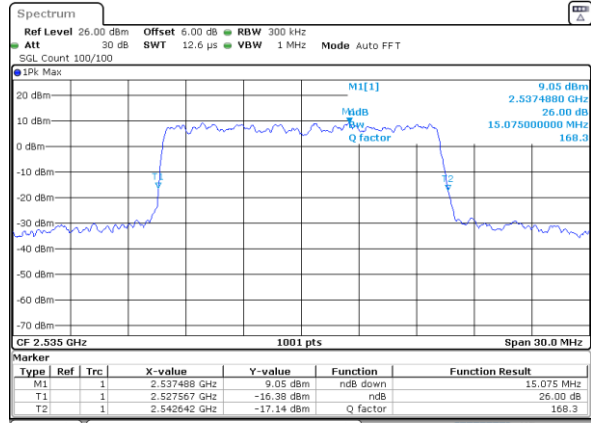
Date: 14.NOV.2022 16:21:58

64QAM



Date: 14.NOV.2022 16:22:13

256QAM

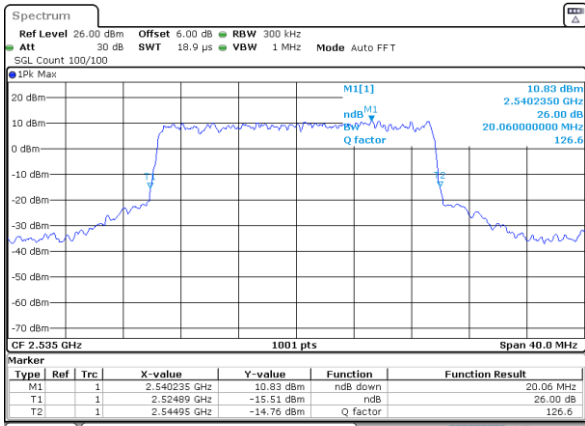


Date: 14.NOV.2022 16:22:32



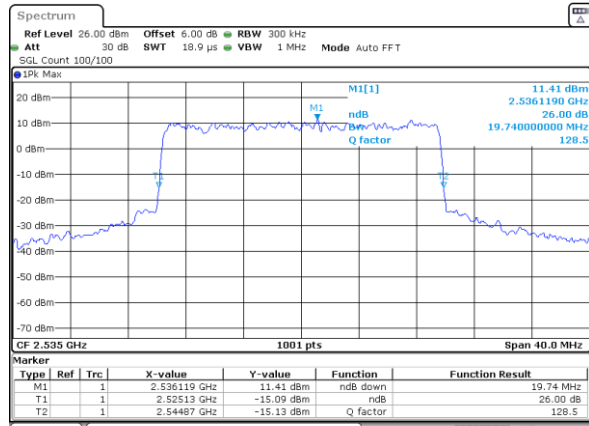
FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



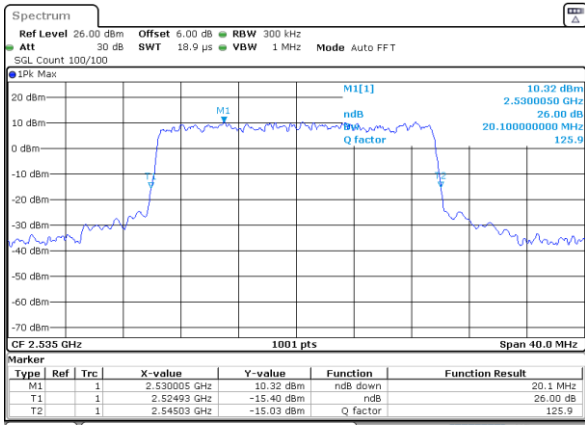
Date: 16.DEC.2022 07:46:37

16QAM



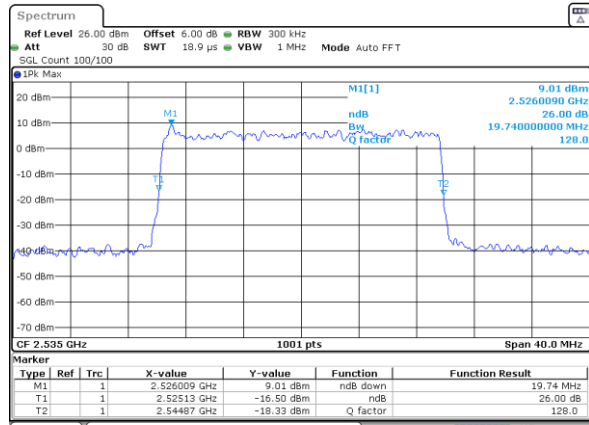
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64QAM



Date: 16.DEC.2022 07:47:11

256QAM

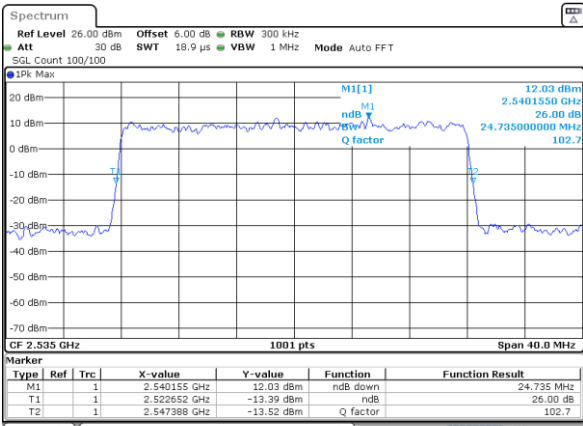


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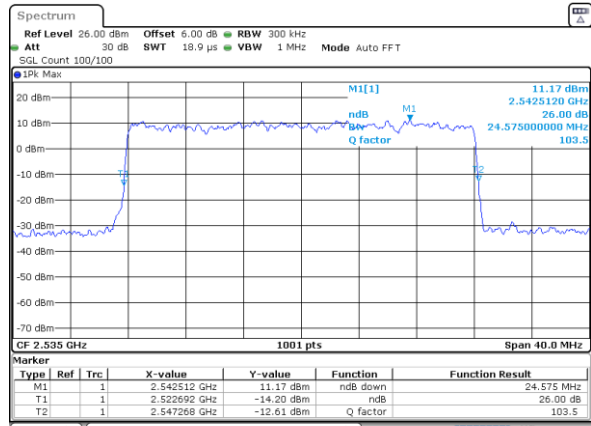
FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



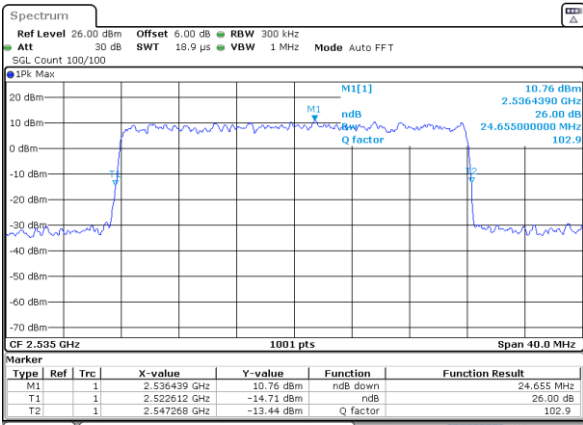
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16QAM



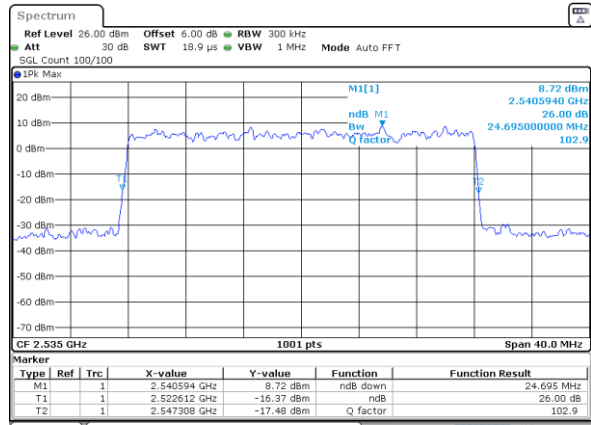
Date: 14.NOV.2022 16:19:15

64QAM



Date: 14.NOV.2022 16:19:36

256QAM



Date: 14.NOV.2022 16:19:57