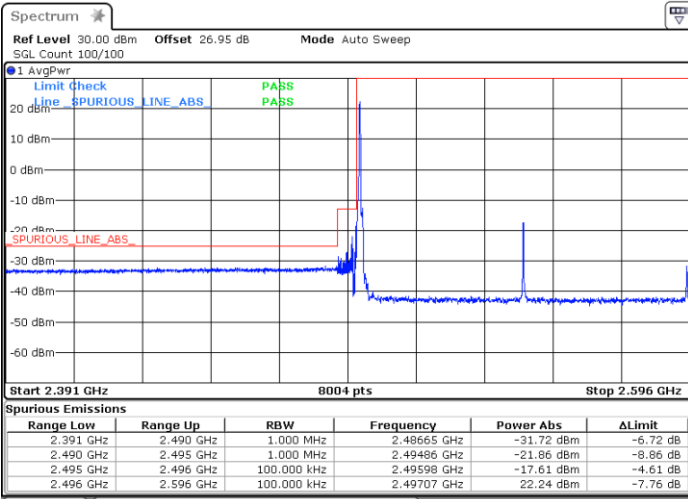




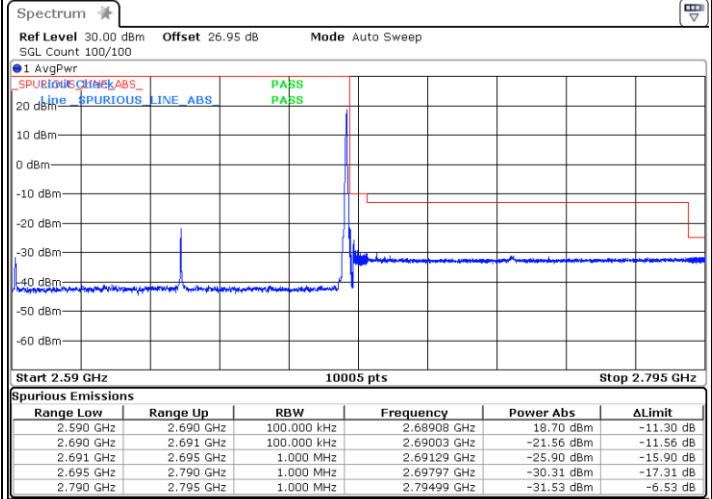
n41_UL MIMO / NR 100MHz

100M-L-1RB0-QPSK

100M-H-1RBMAX-QPSK



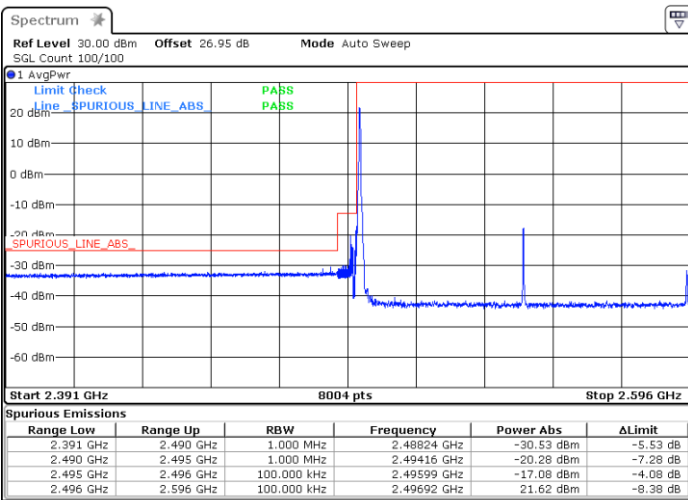
Date: 14.JAN.2021 20:59:05



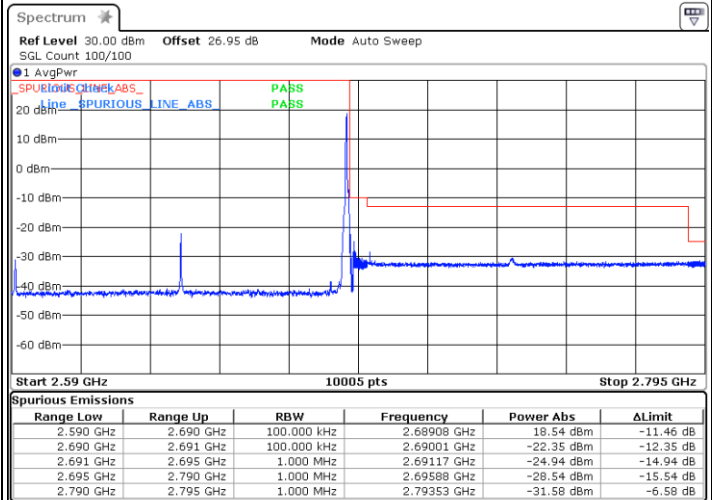
Date: 14.JAN.2021 21:12:43

100M-L-1RB0-16QAM

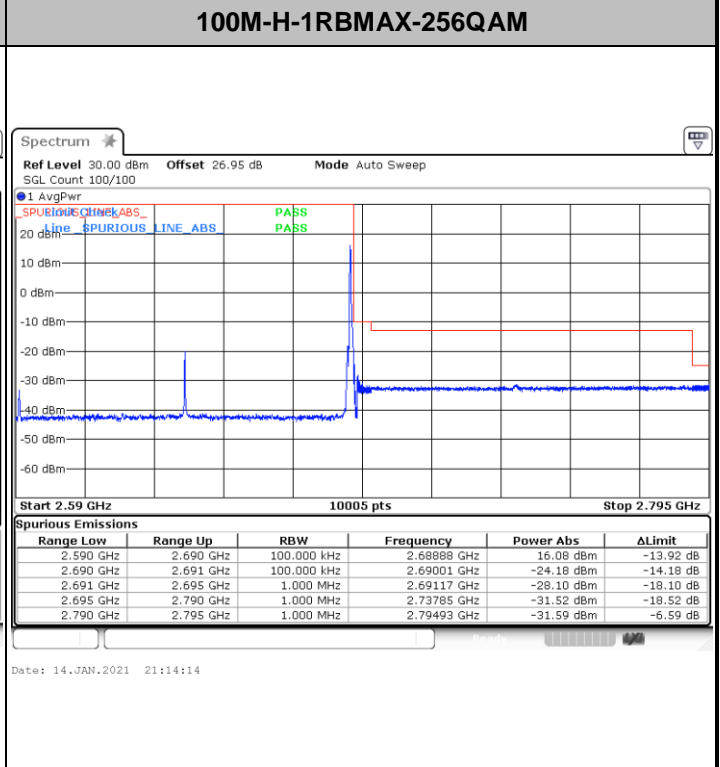
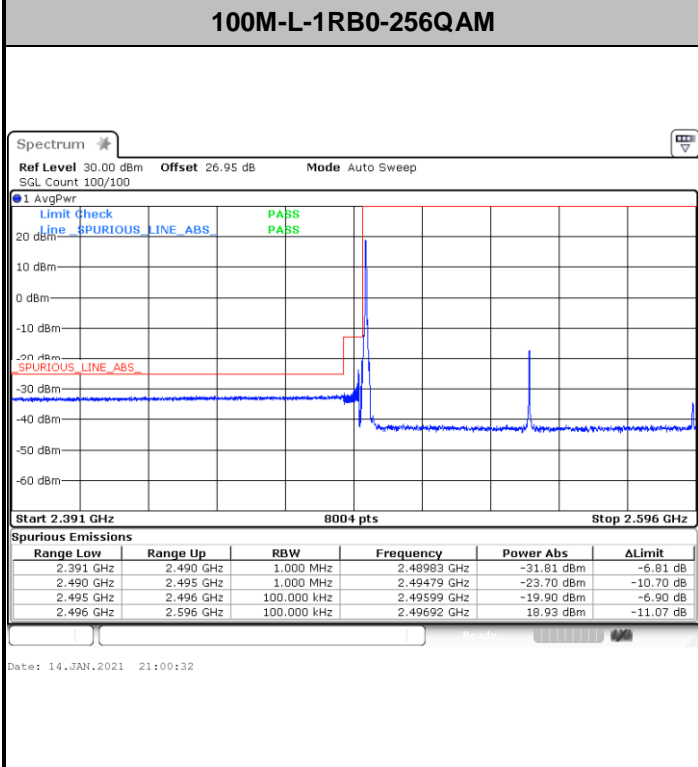
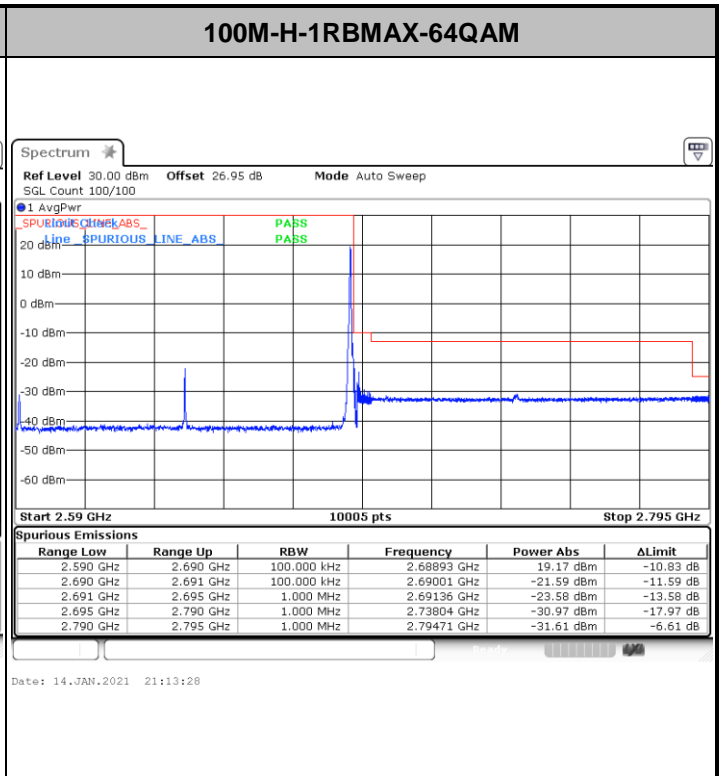
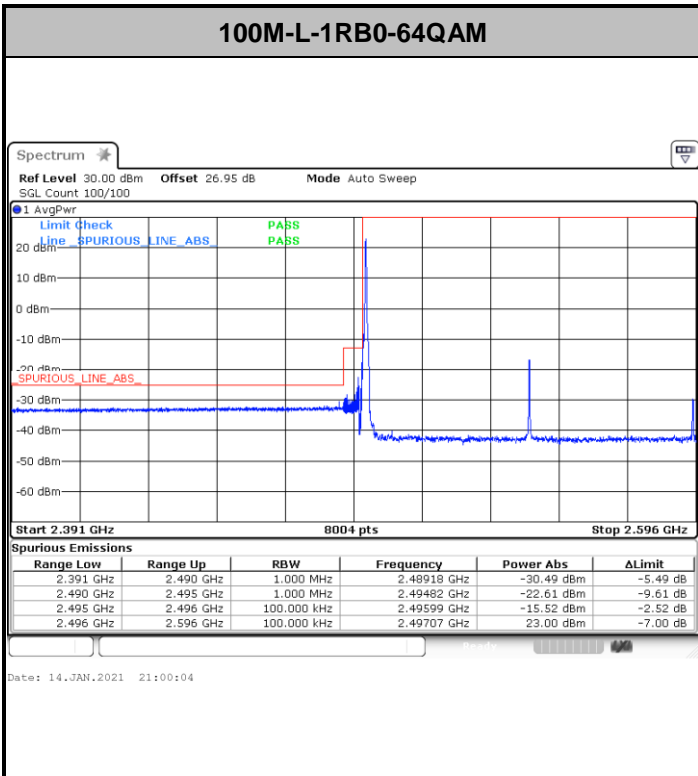
100M-H-1RBMAX-16QAM

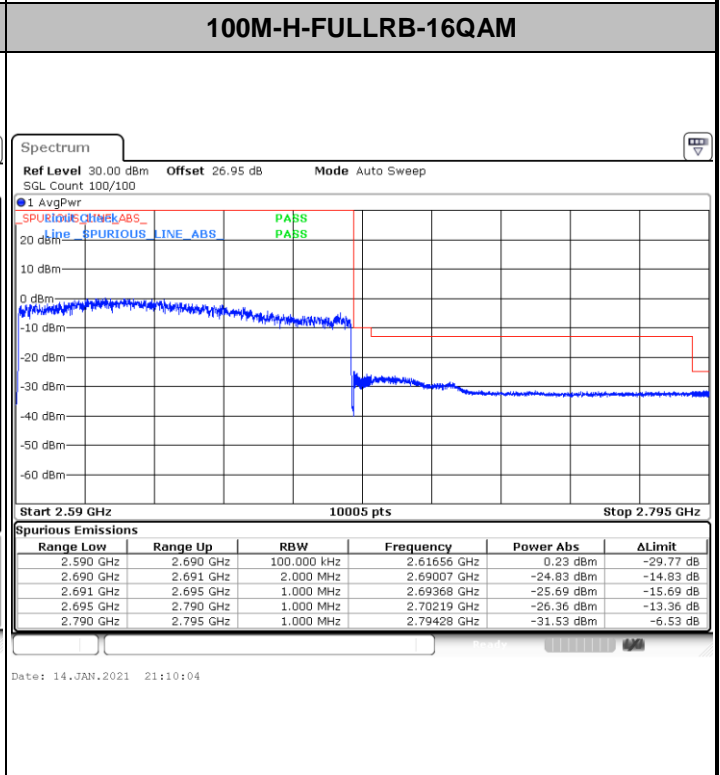
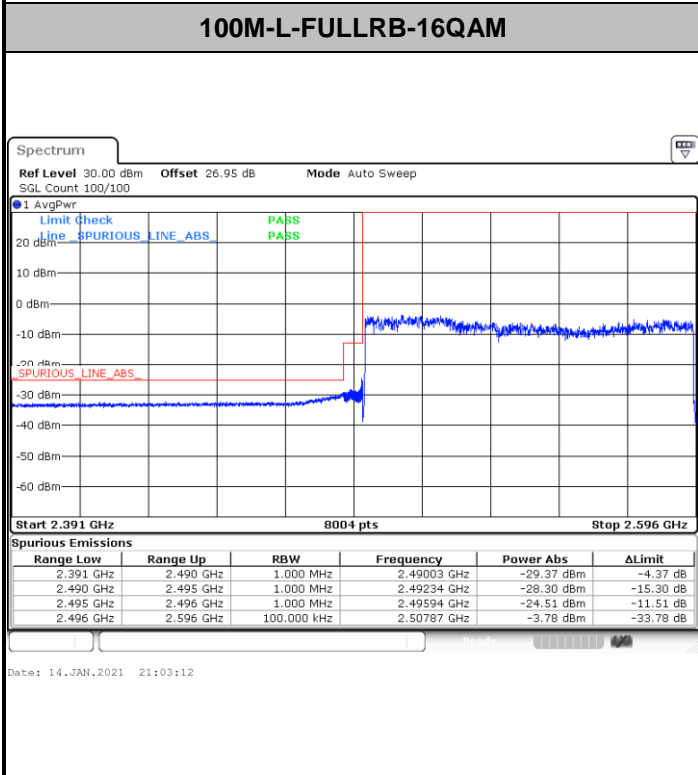
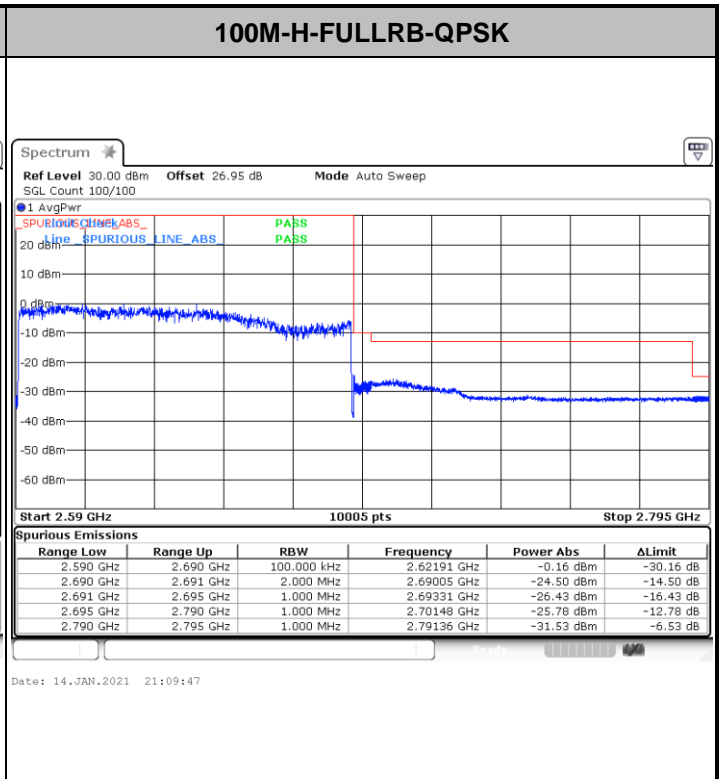
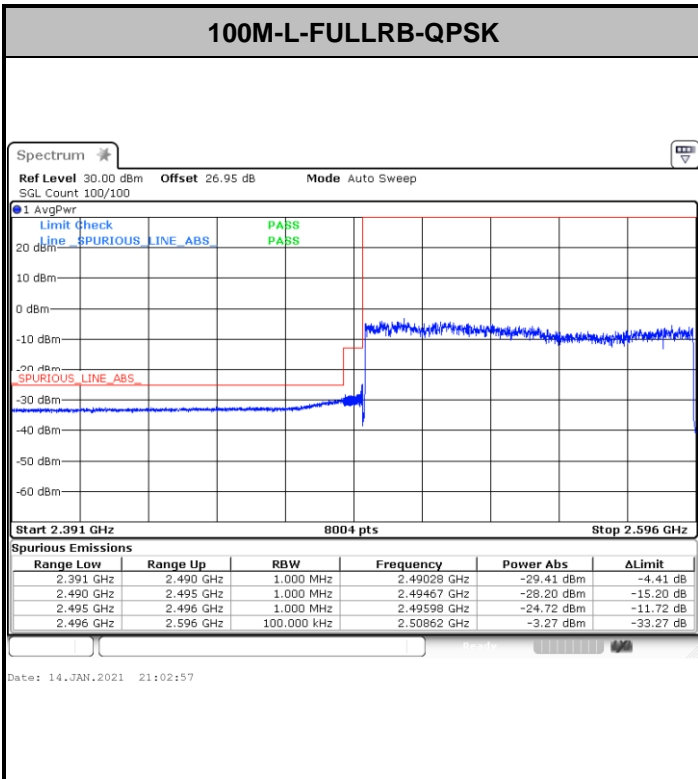


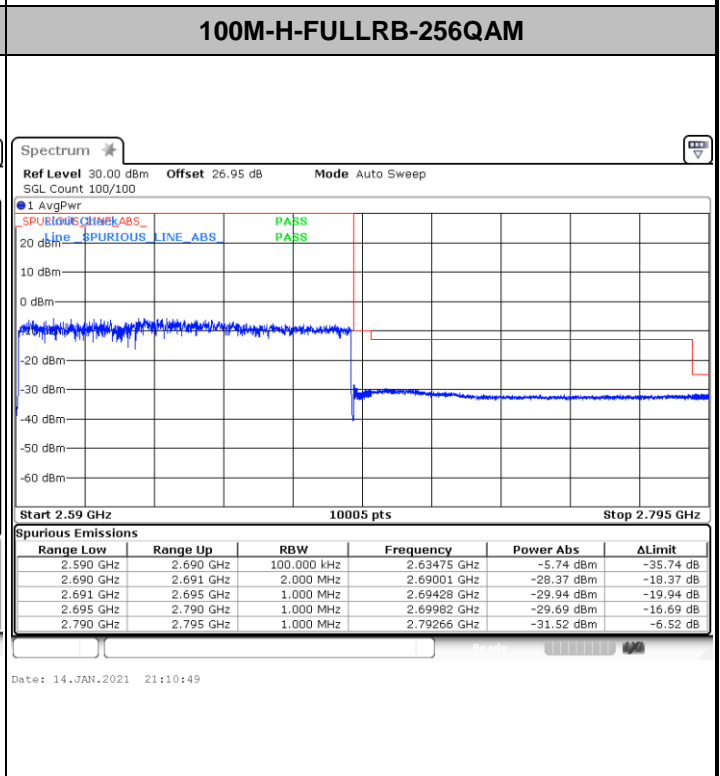
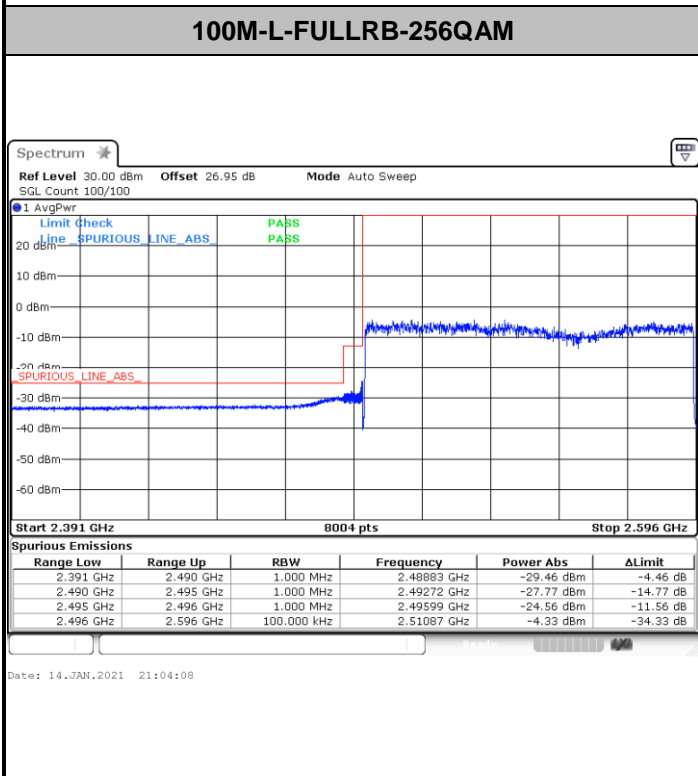
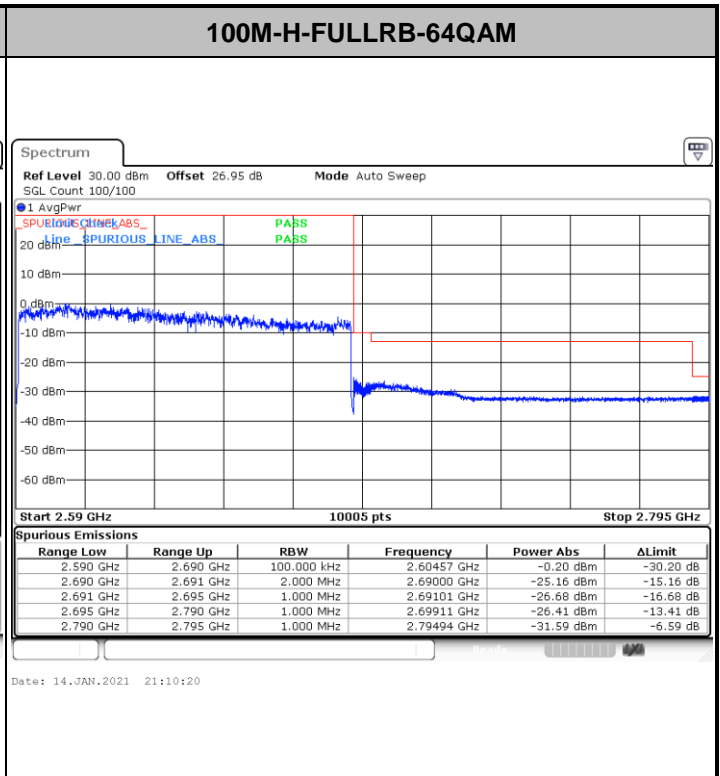
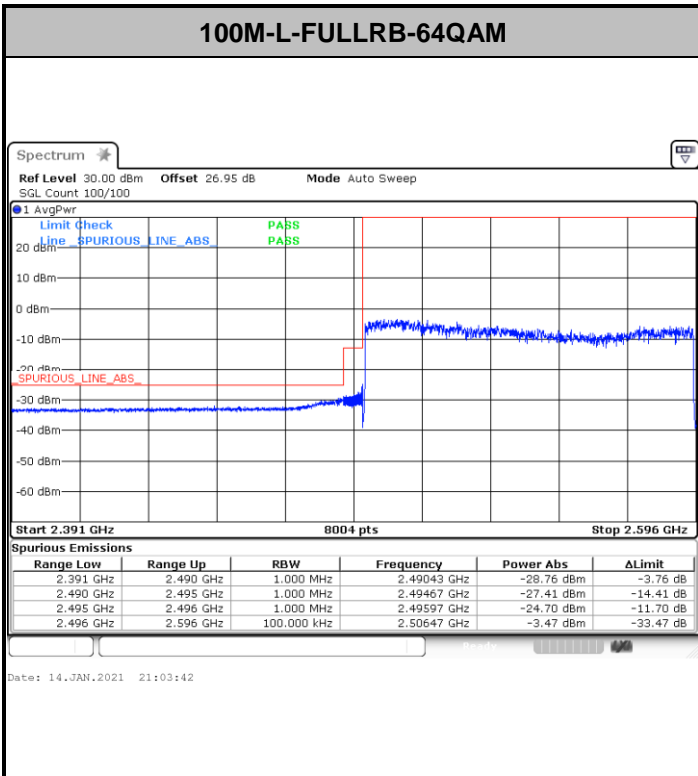
Date: 14.JAN.2021 20:59:41



Date: 14.JAN.2021 21:13:06

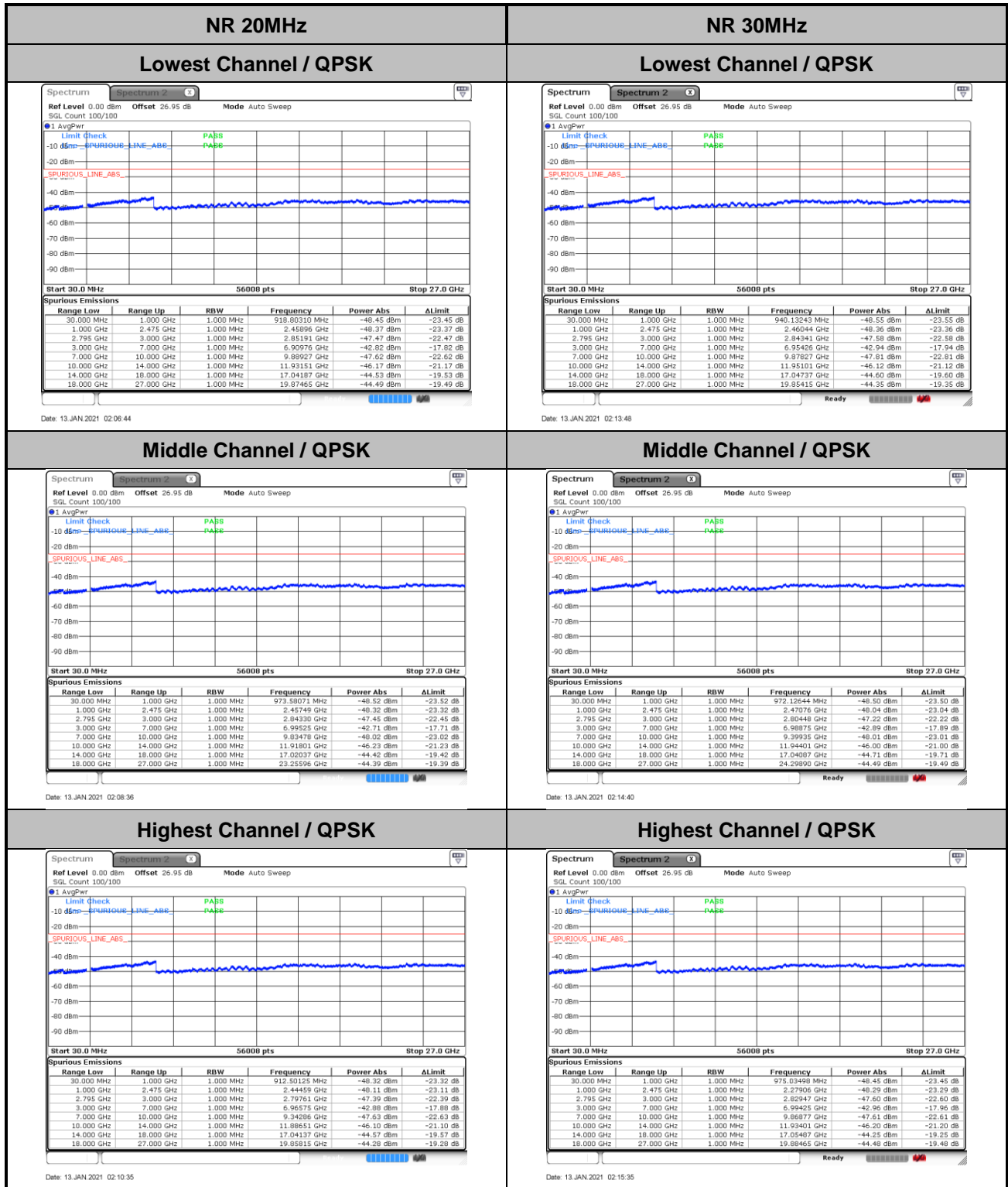


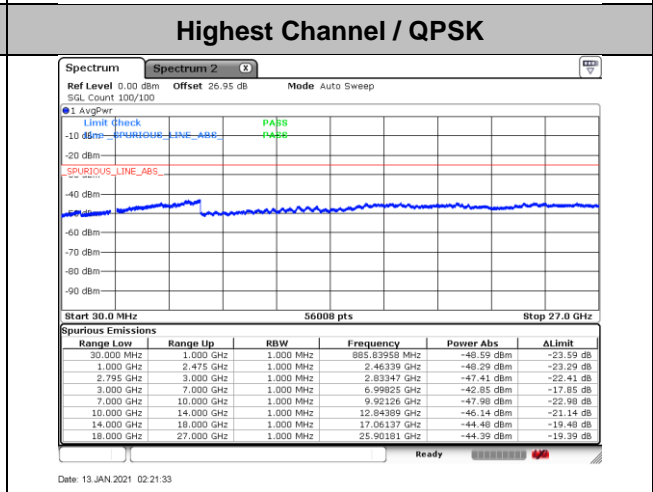
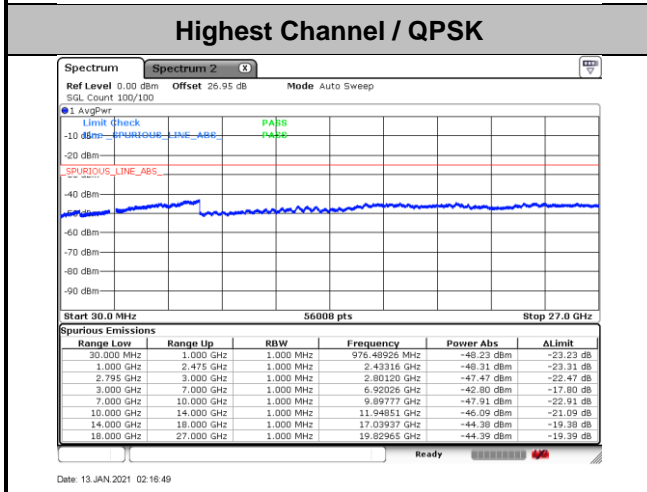
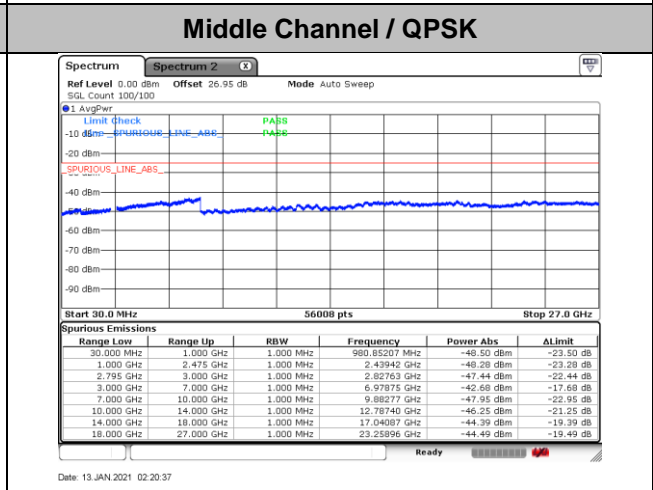
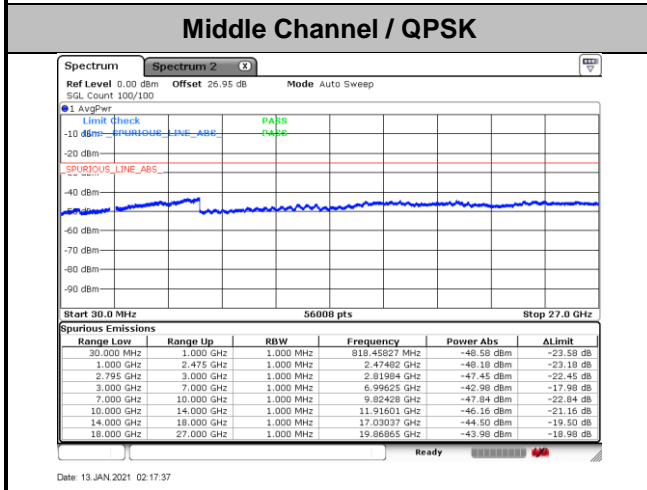
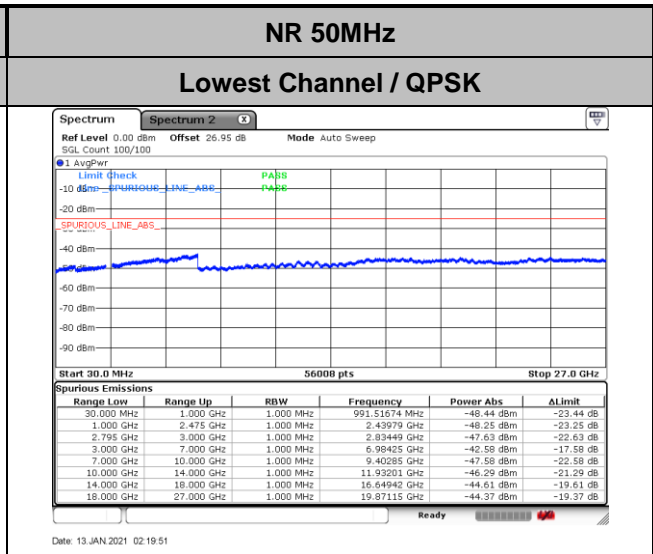
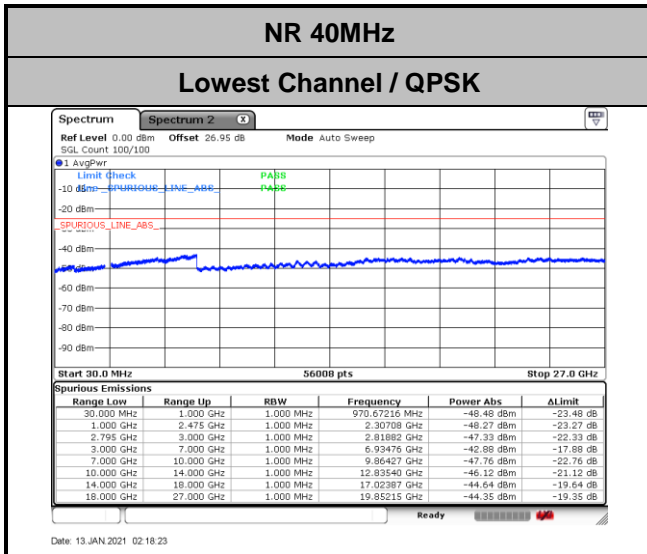


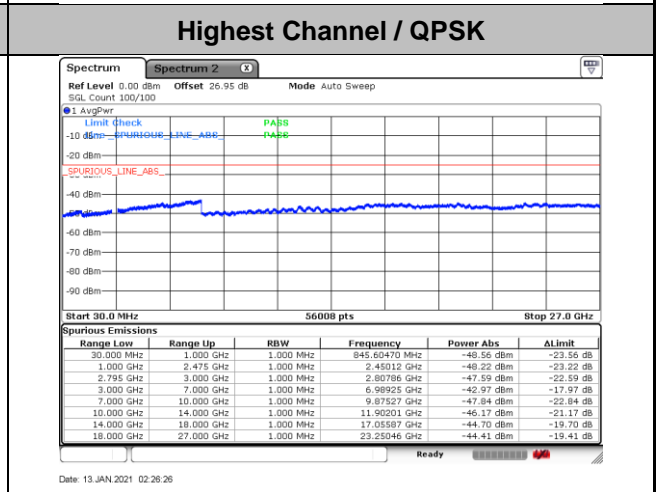
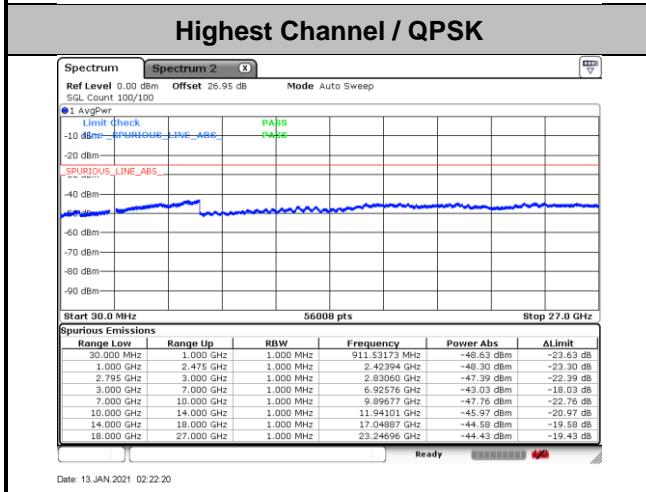
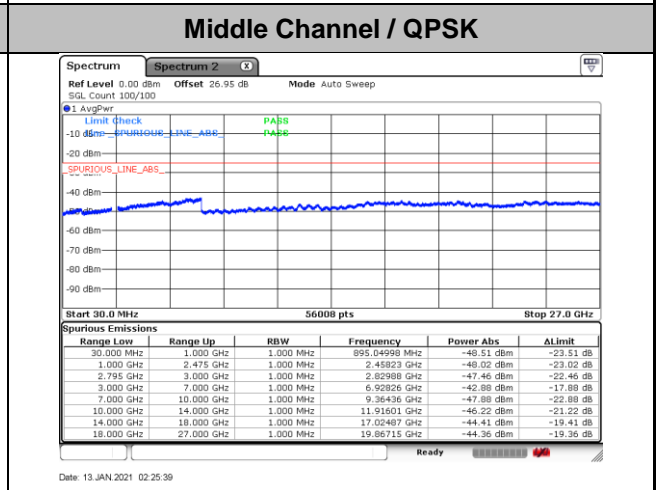
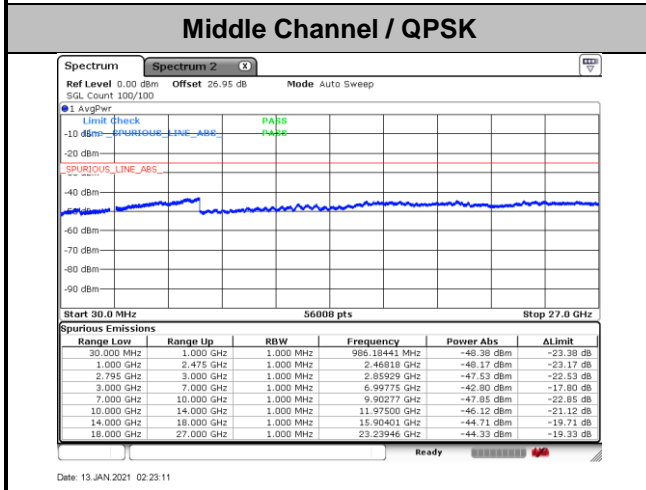
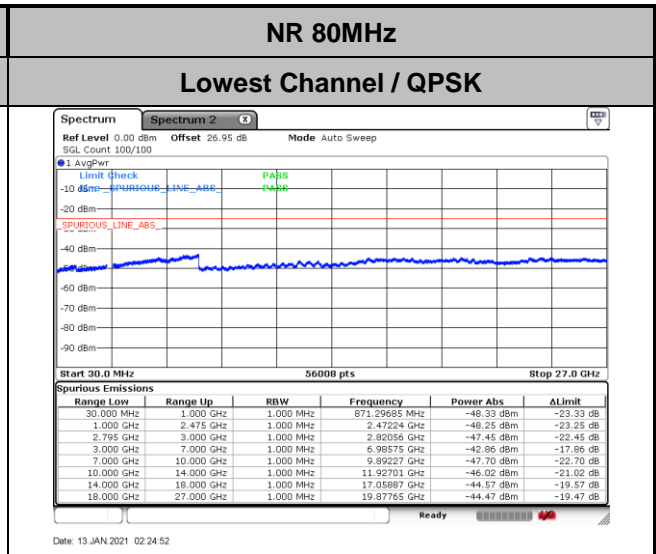
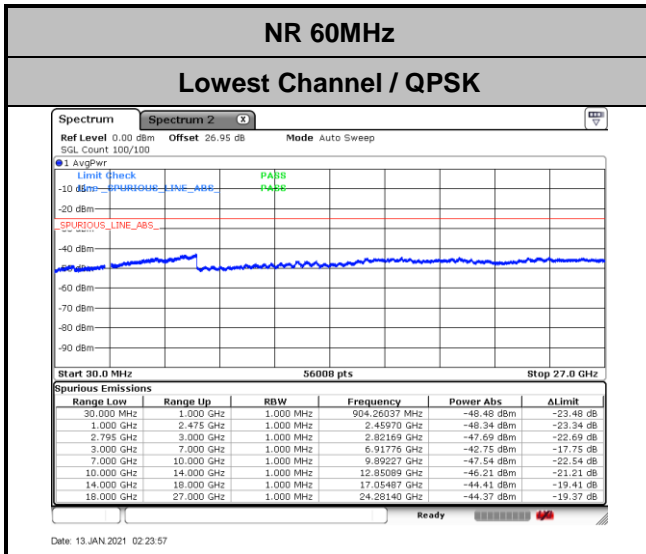




Conducted Spurious Emission



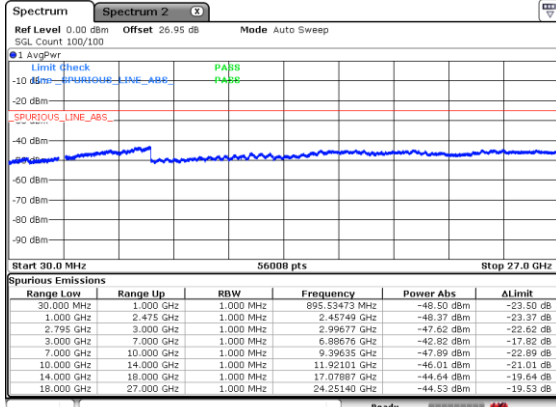






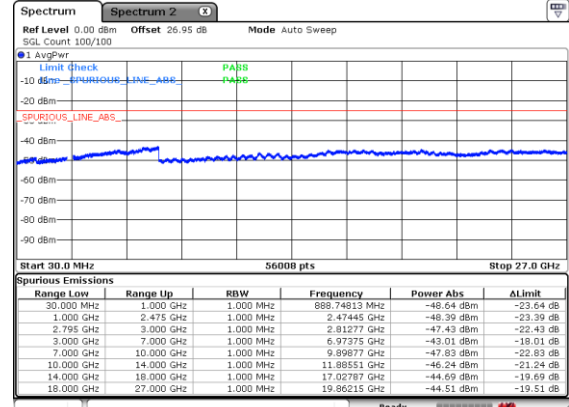
NR 90MHz

Lowest Channel / QPSK

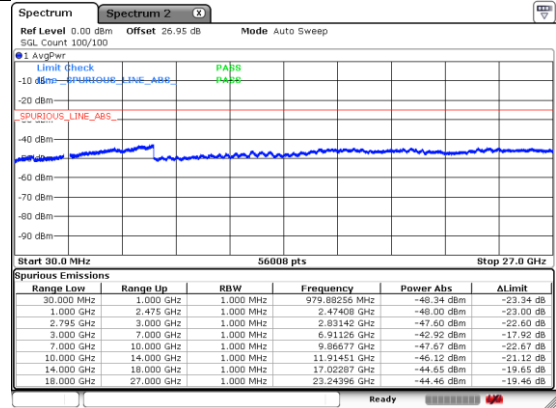


NR 100MHz

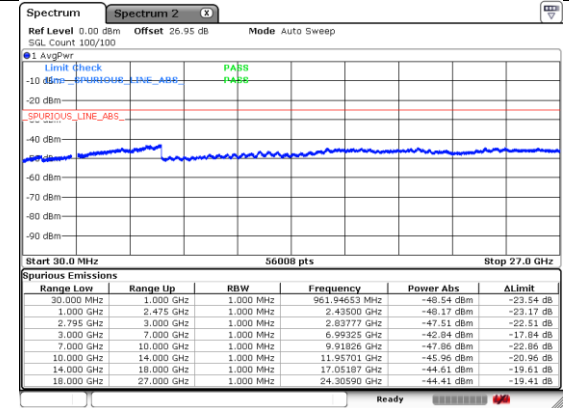
Lowest Channel / QPSK



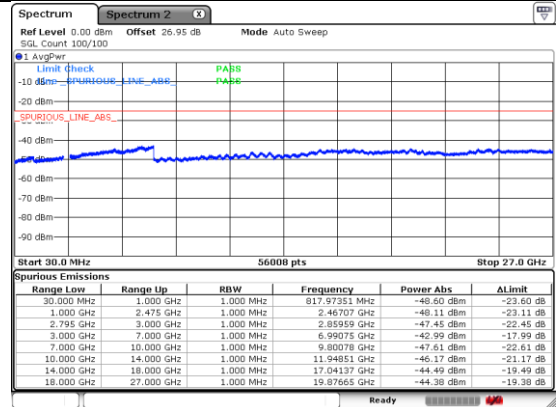
Middle Channel / QPSK



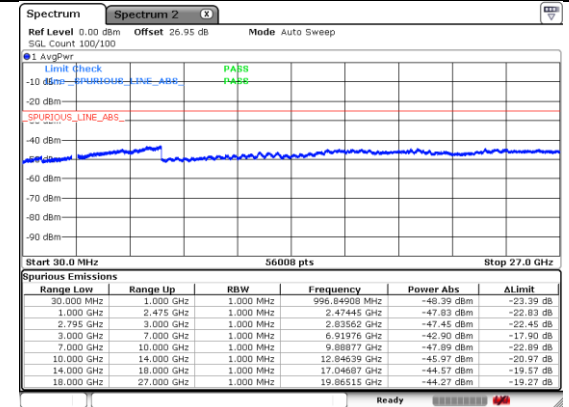
Middle Channel / QPSK



Highest Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		n41_UL MIMO (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =7.6 V. ; Battery End Point (BEP) =7.3 V. ; Maximum Voltage =8.7 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n71 SA

Peak-to-Average Ratio

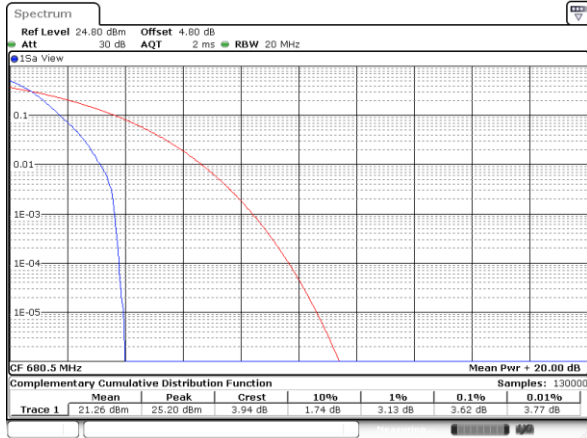
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.62	4.87	6.03	6.32	PASS
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	4.84				PASS



FR1 n71 / 20MHz / DFT-S OFDM

Middle Channel / Full RB

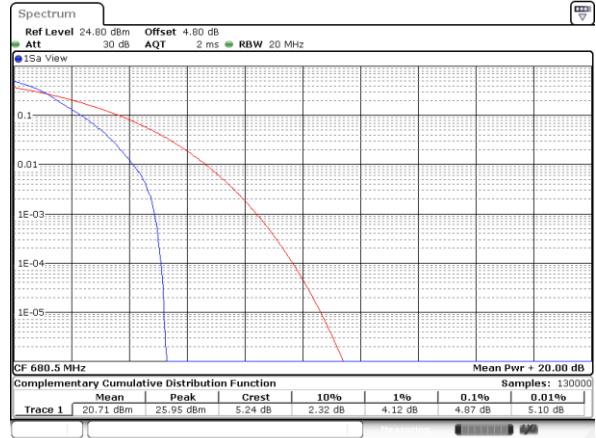
PI/2 BPSK



Date: 19 DEC 2020 22:47:39

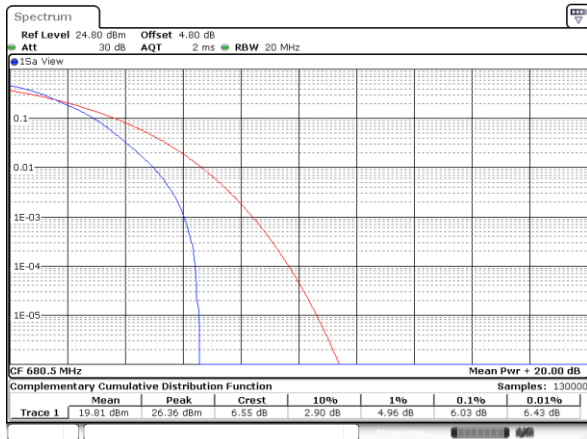
Middle Channel / Full RB

QPSK



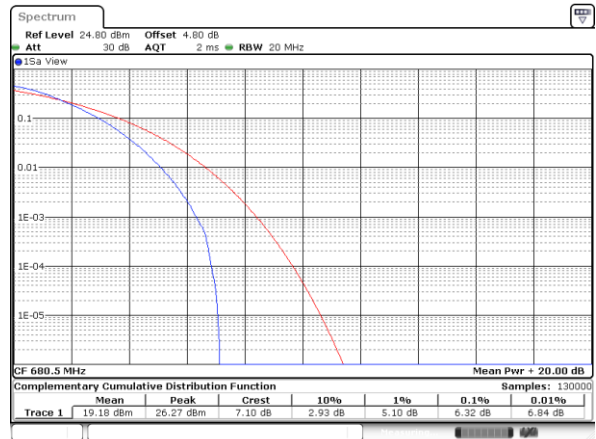
Date: 19 DEC 2020 22:48:08

16QAM



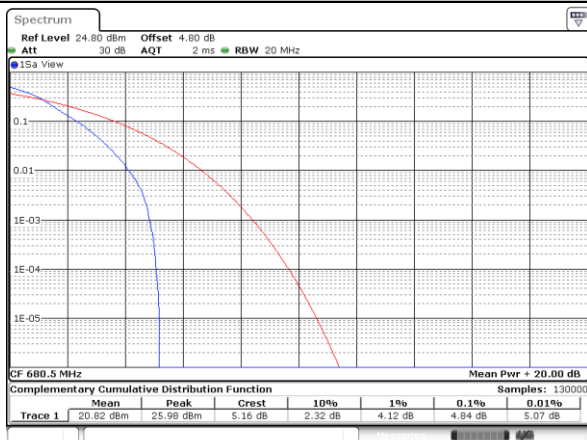
Date: 19 DEC 2020 22:48:44

64QAM



Date: 19 DEC 2020 22:49:24

256QAM

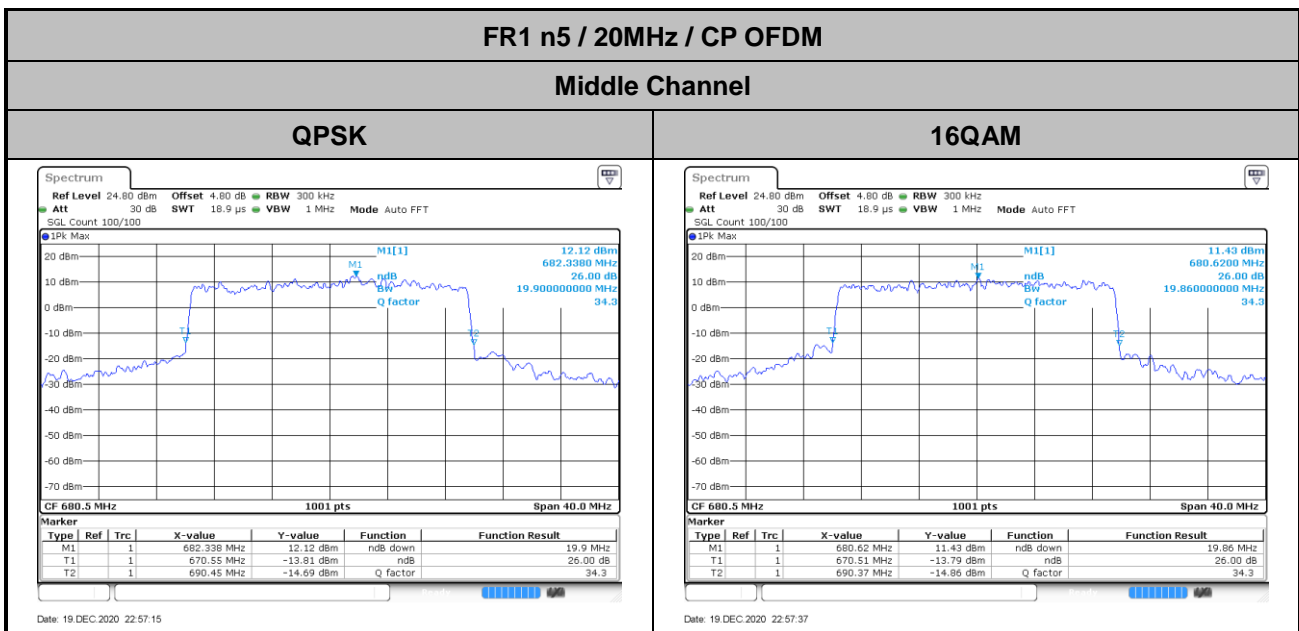


Date: 19 DEC 2020 22:56:36



26dB Bandwidth

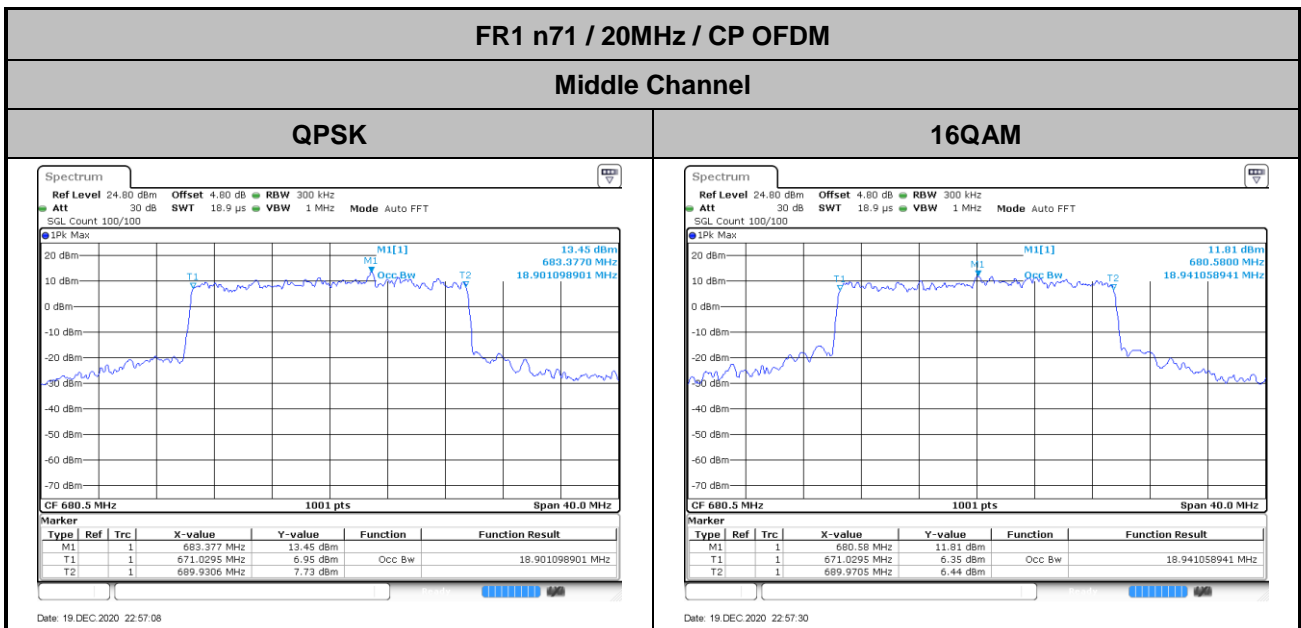
Mode	FR1 n71: 26dB BW(MHz) / CP OFDM	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.90	19.86





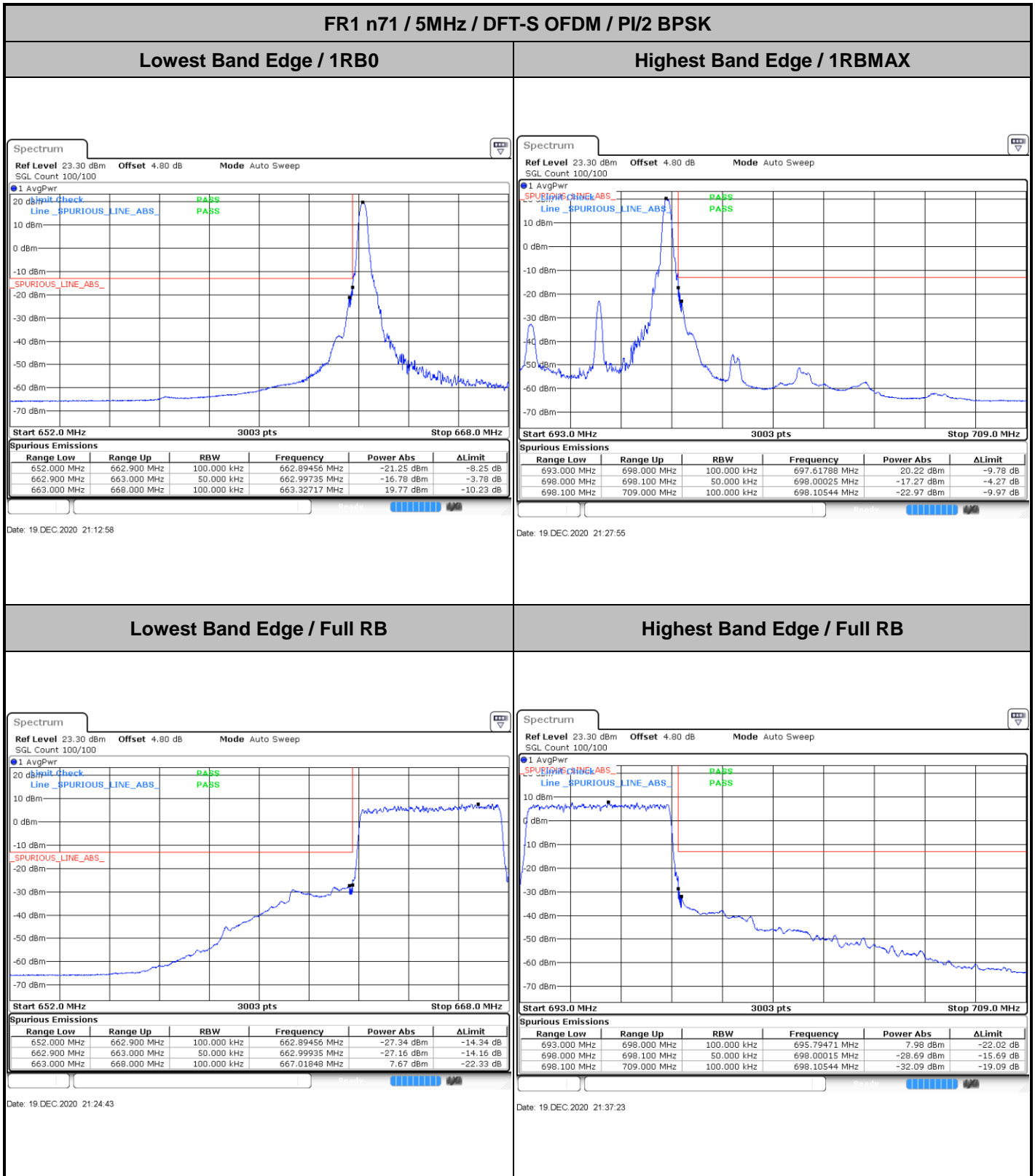
Occupied Bandwidth

Mode	FR1 n71 : 99%OBW(MHz) / CP OFDM	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.90	18.94





Conducted Band Edge

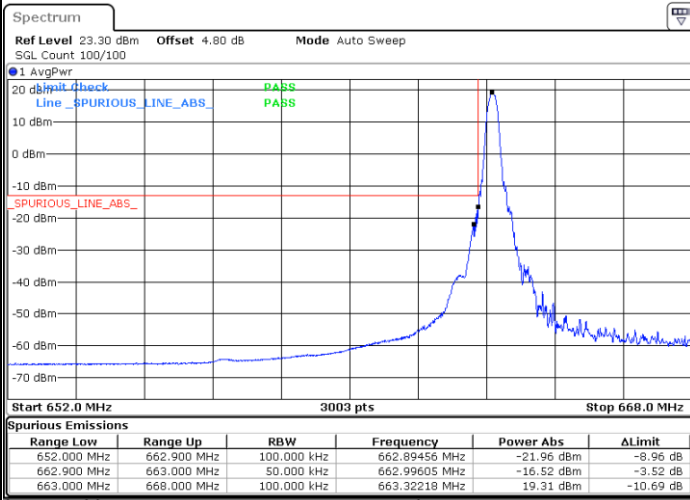




FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

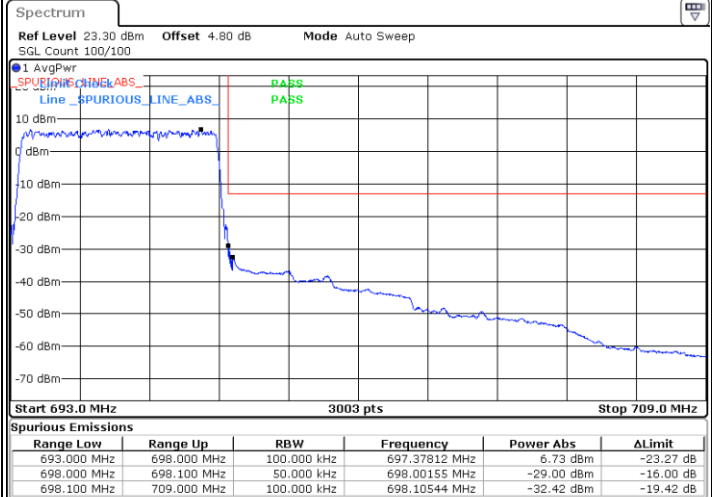
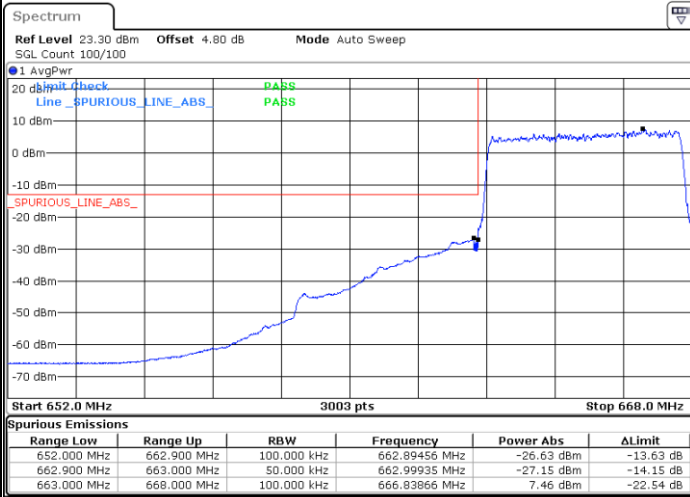


Date: 19 DEC 2020 21:14:22

Date: 19 DEC 2020 21:28:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:21:06

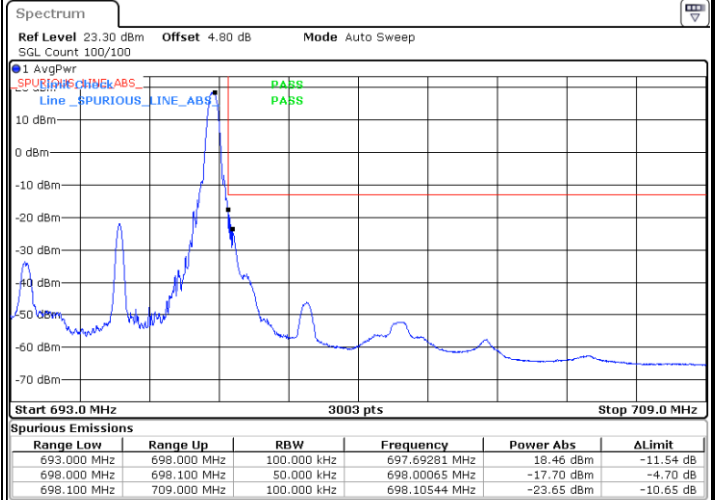
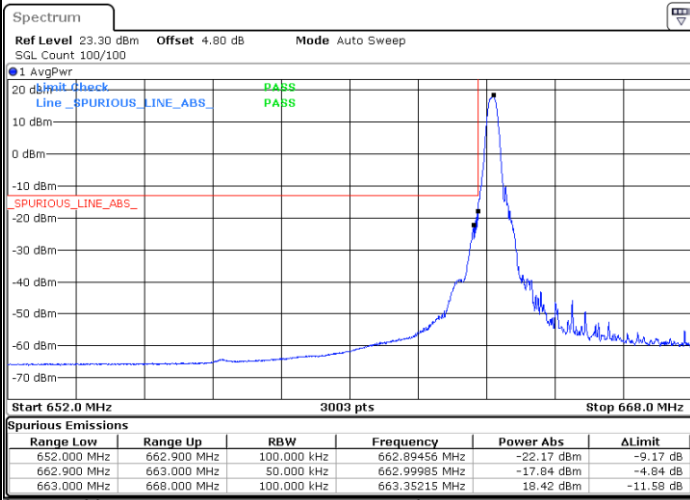
Date: 19 DEC 2020 21:35:22



FR1 n71 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

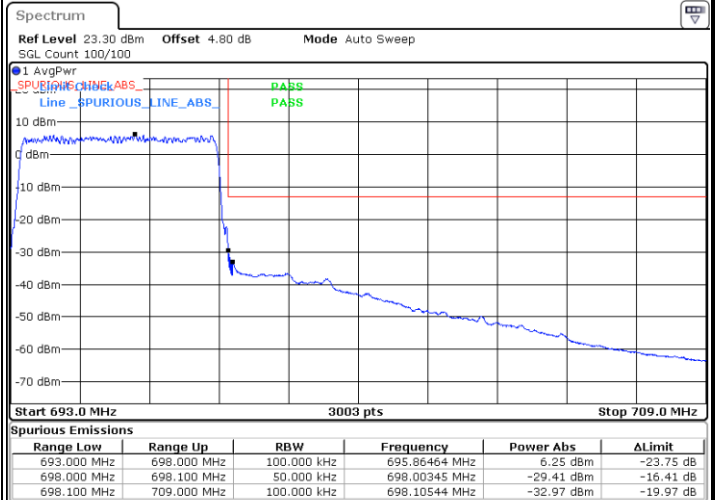
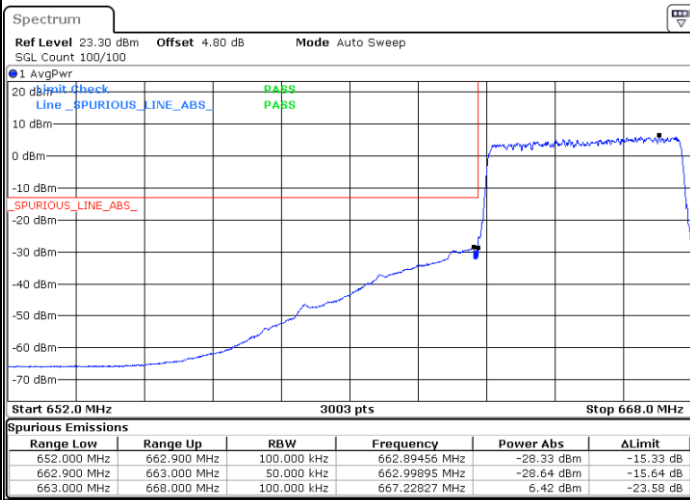


Date: 19 DEC 2020 21:16:20

Date: 19 DEC 2020 21:29:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:21:51

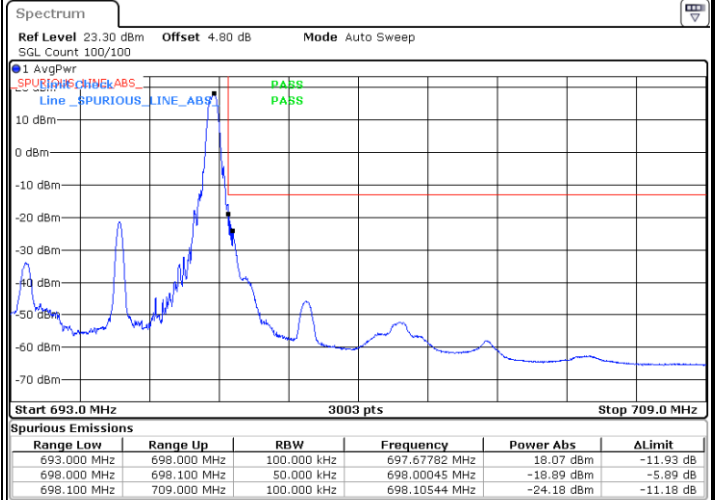
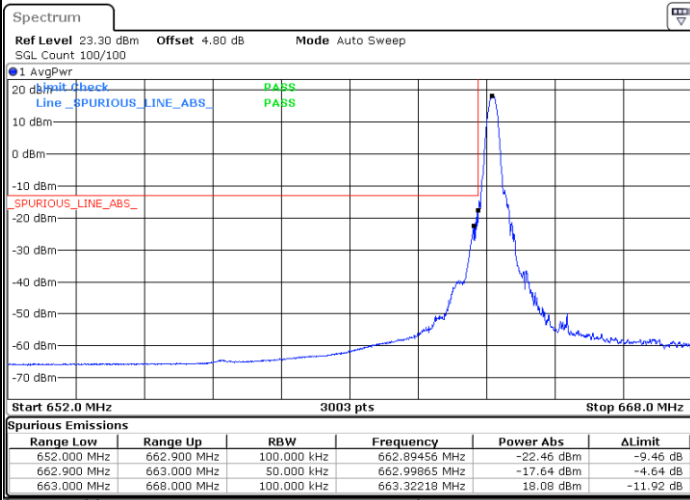
Date: 19 DEC 2020 21:34:37



FR1 n71/ 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

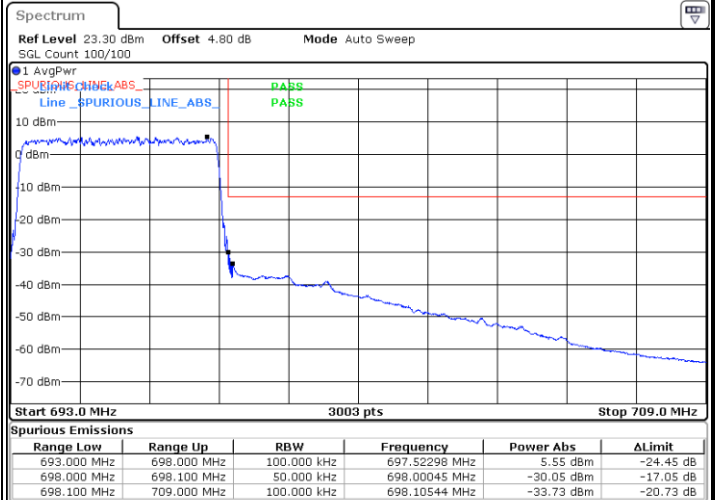
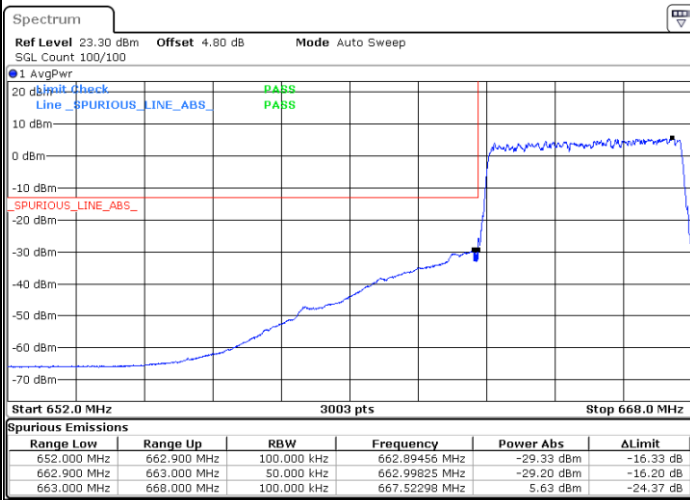


Date: 19 DEC 2020 21:17:15

Date: 19 DEC 2020 21:30:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:22:35

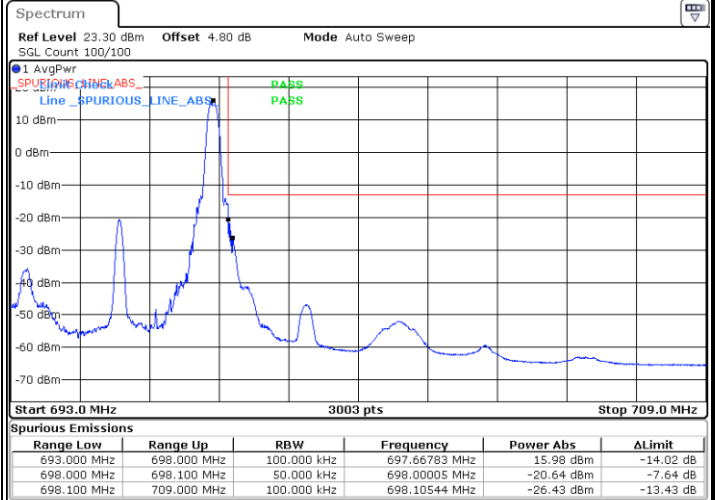
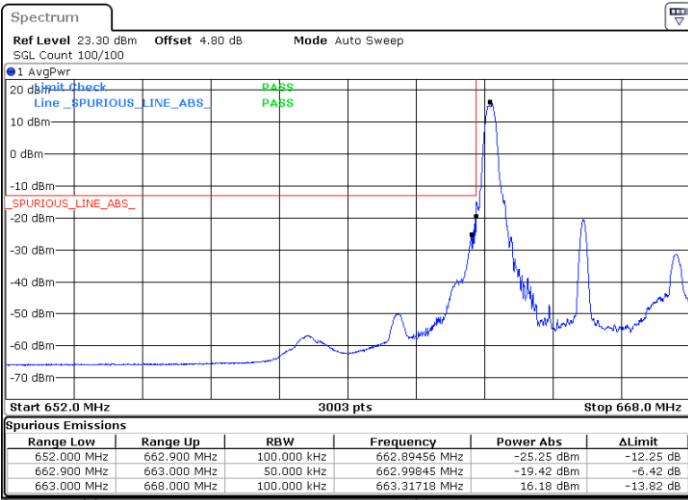
Date: 19 DEC 2020 21:33:54



FR1 n71 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

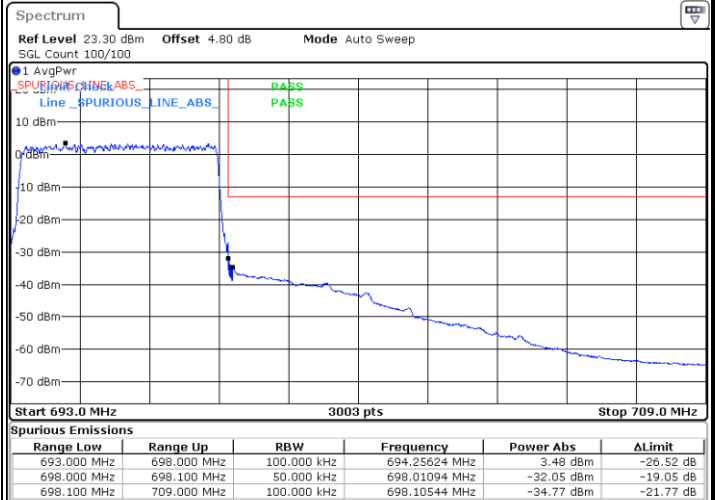
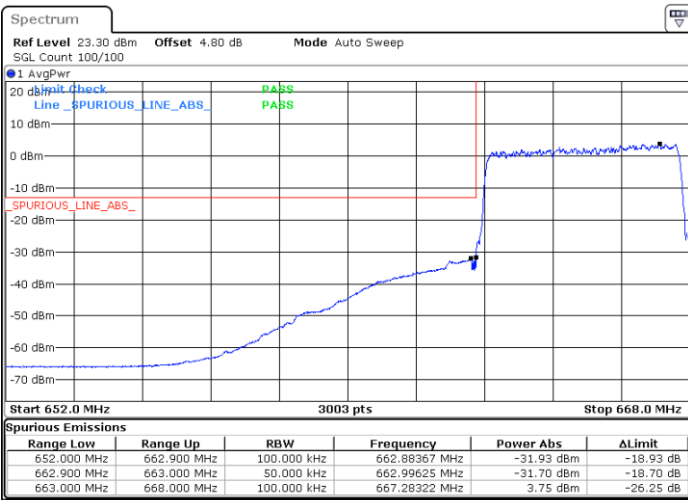


Date: 19 DEC 2020 21:19:32

Date: 19 DEC 2020 21:32:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:23:19

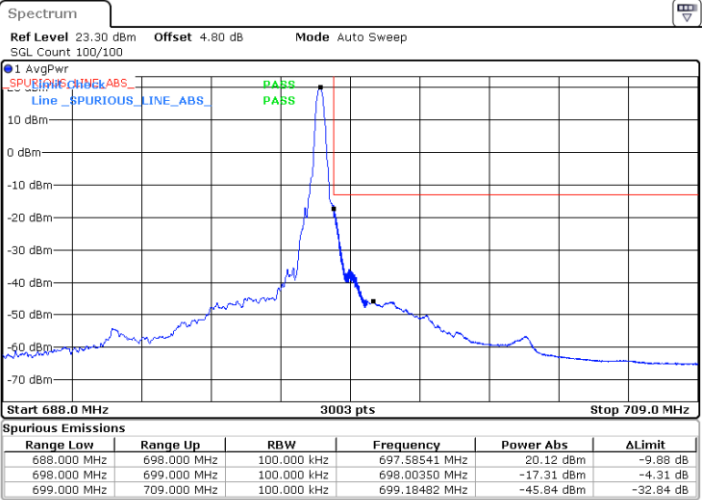
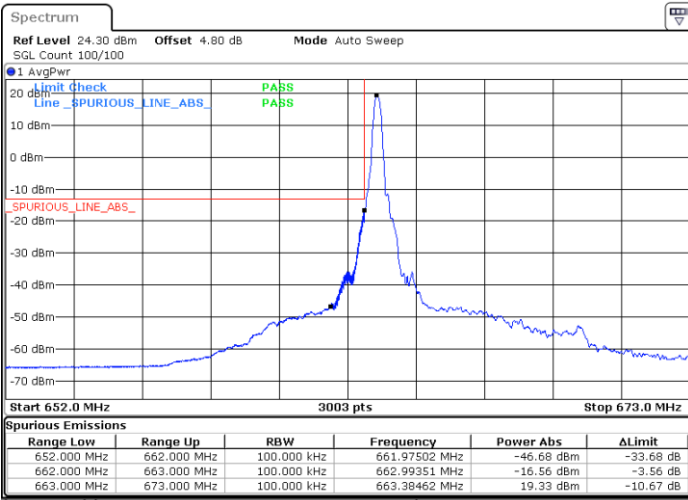
Date: 19 DEC 2020 21:32:51



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

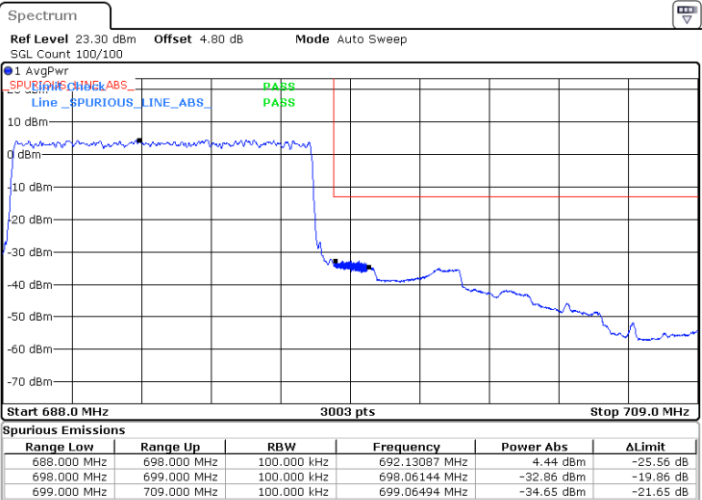
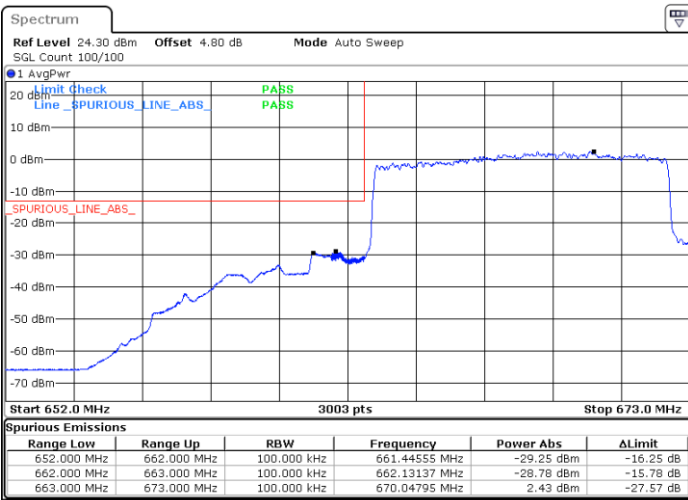


Date: 19 DEC 2020 21:46:37

Date: 19 DEC 2020 21:50:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:39:15

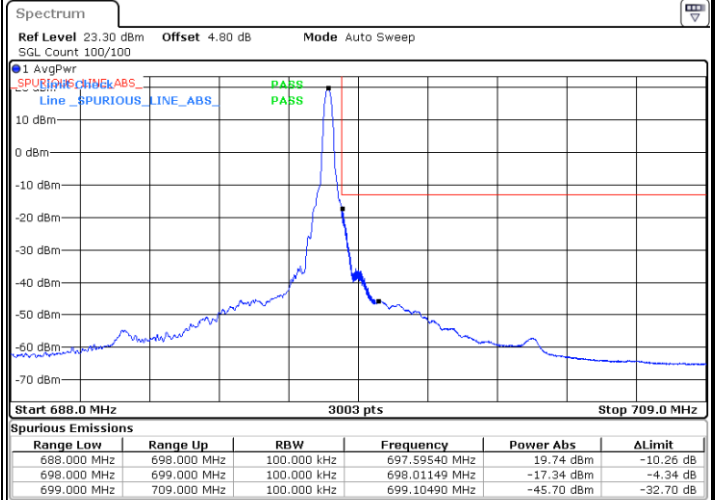
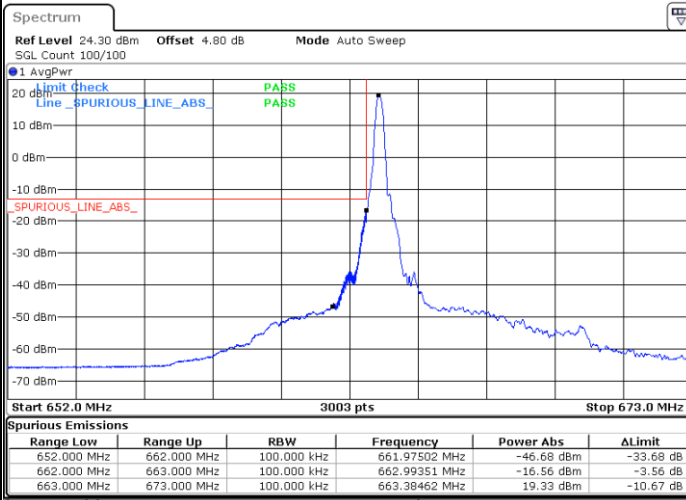
Date: 19 DEC 2020 22:01:14



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

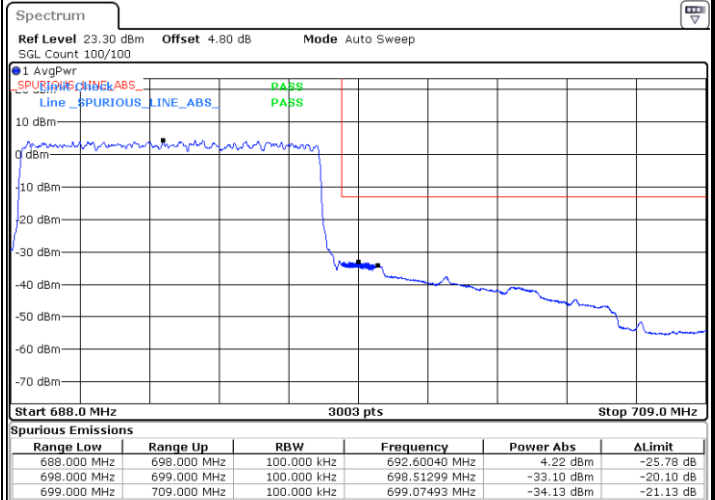
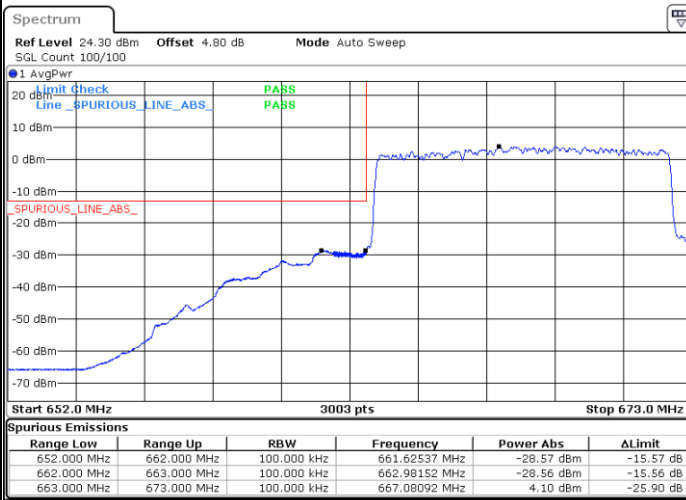


Date: 19 DEC 2020 21:46:37

Date: 19 DEC 2020 21:51:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:40:01

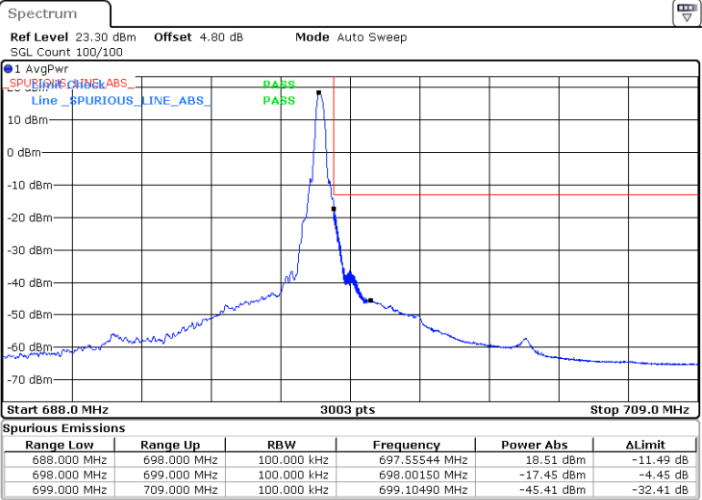
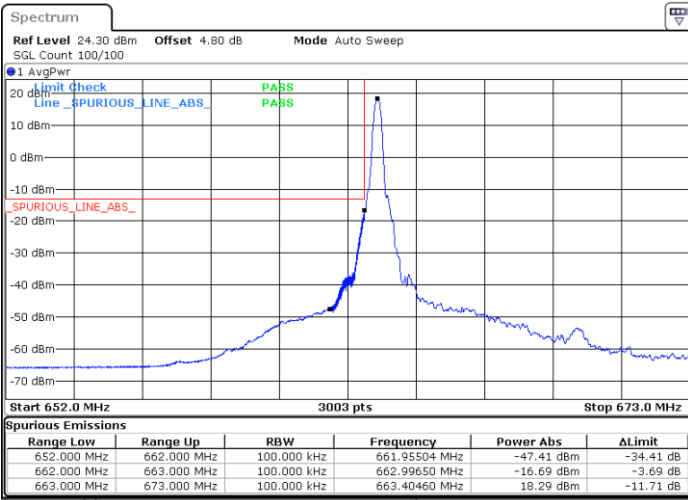
Date: 19 DEC 2020 21:58:19



FR1 n71/ 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

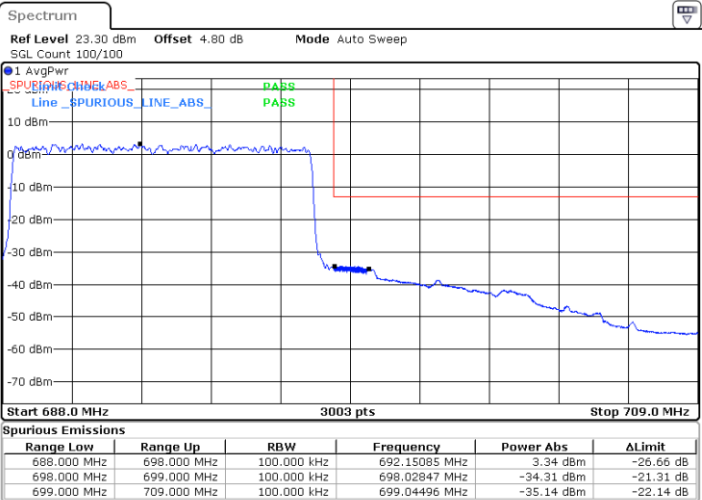
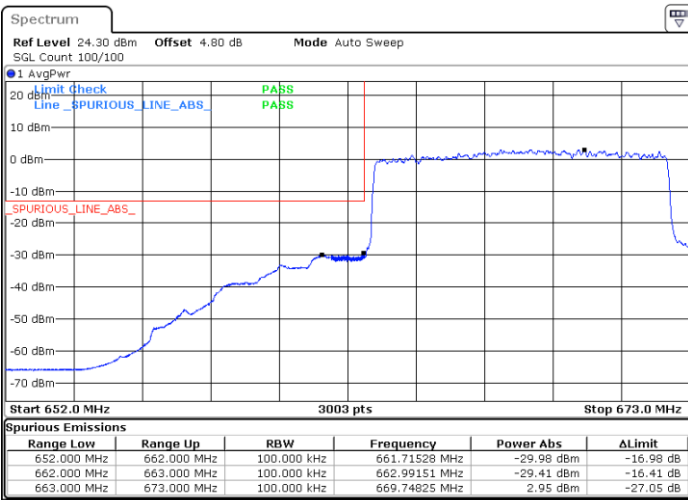


Date: 19 DEC 2020 21:45:54

Date: 19 DEC 2020 21:52:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:41:01

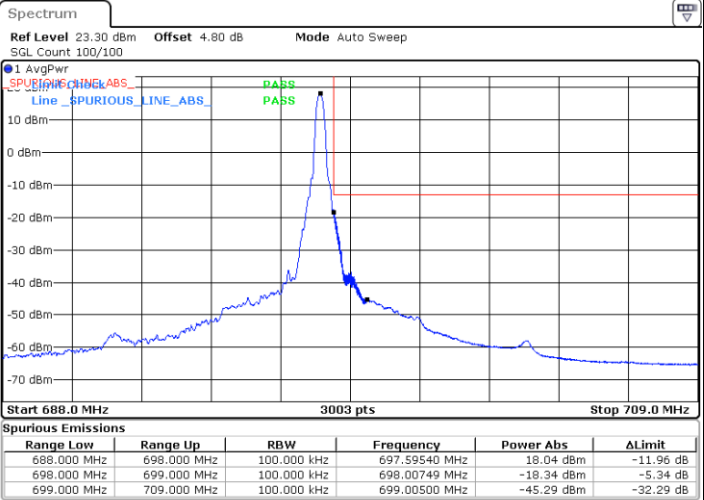
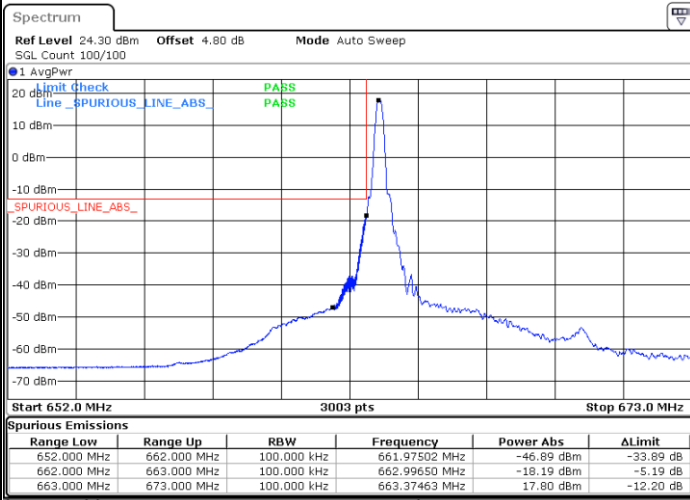
Date: 19 DEC 2020 21:58:04



FR1 n71 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

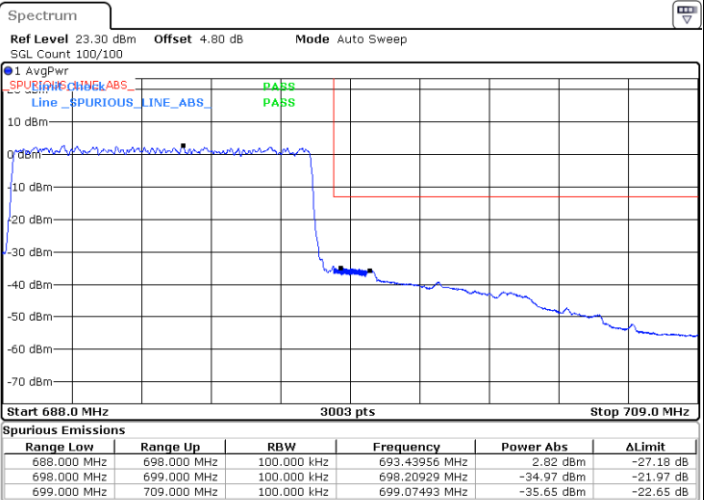
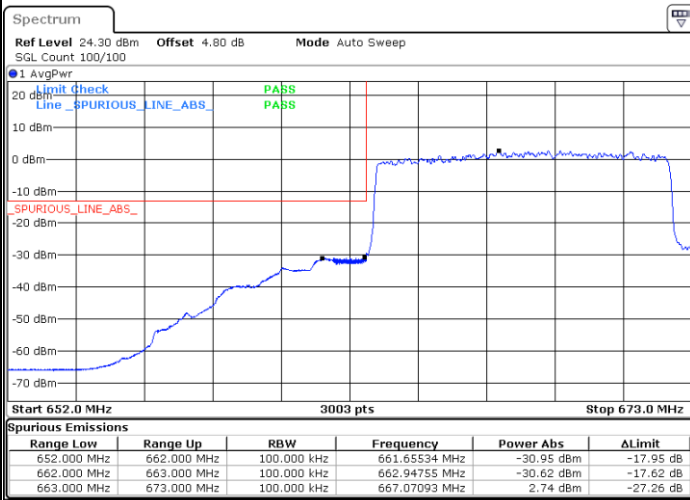


Date: 19 DEC 2020 21:45:11

Date: 19 DEC 2020 21:53:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:42:17

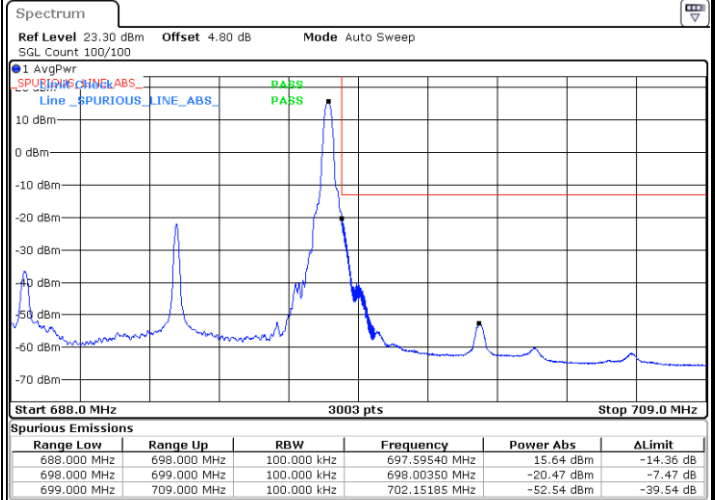
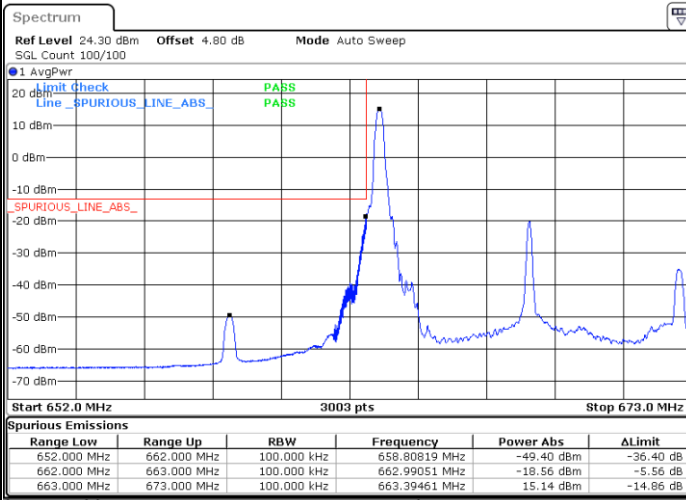
Date: 19 DEC 2020 21:56:29



FR1 n71/ 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

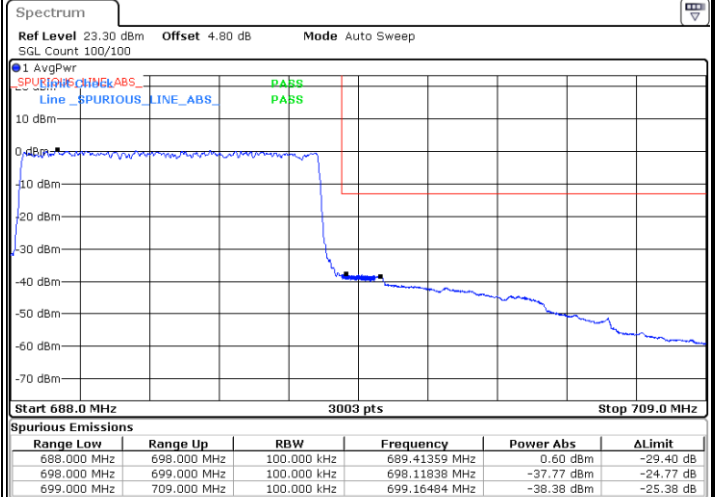
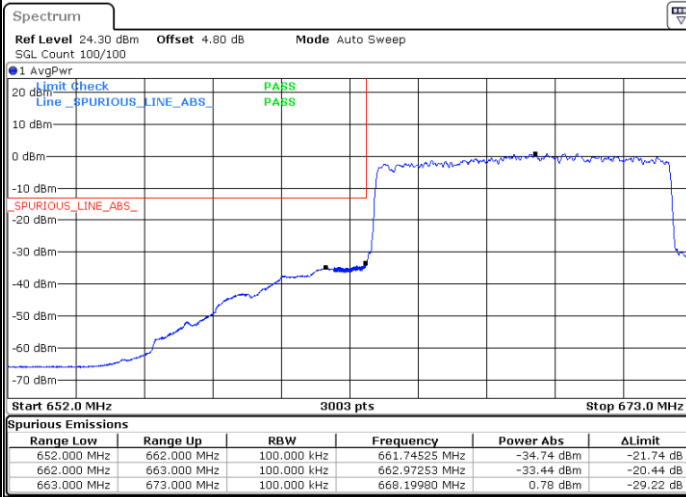


Date: 19 DEC 2020 21:44:25

Date: 19 DEC 2020 21:54:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 21:43:38

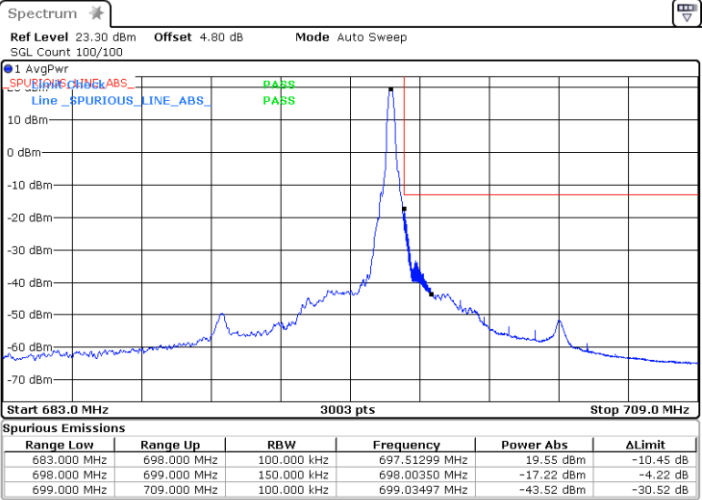
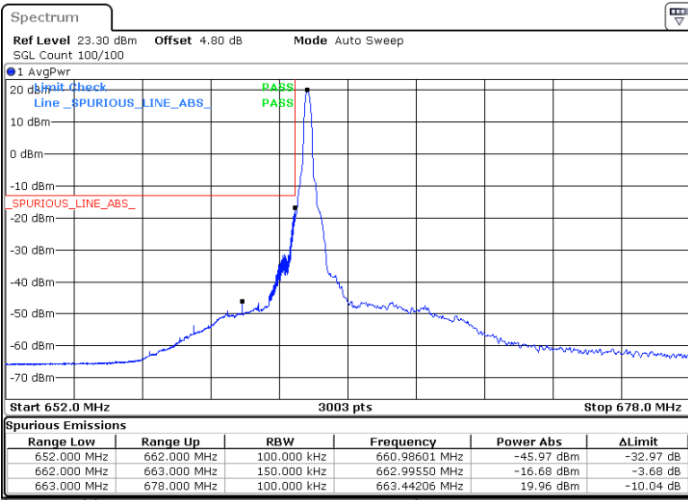
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FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

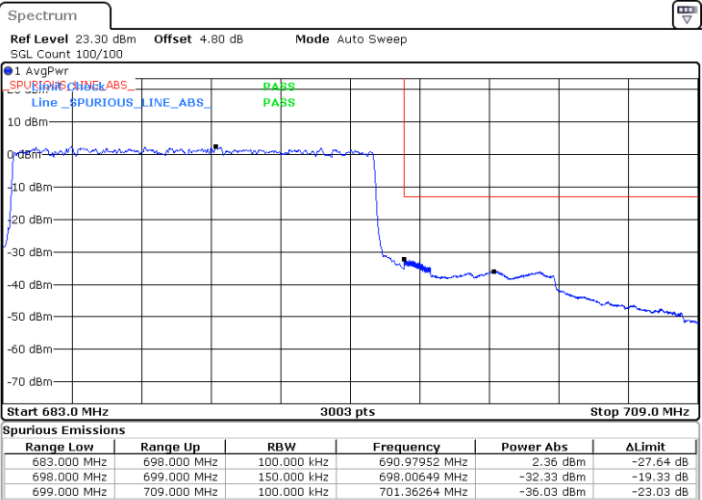
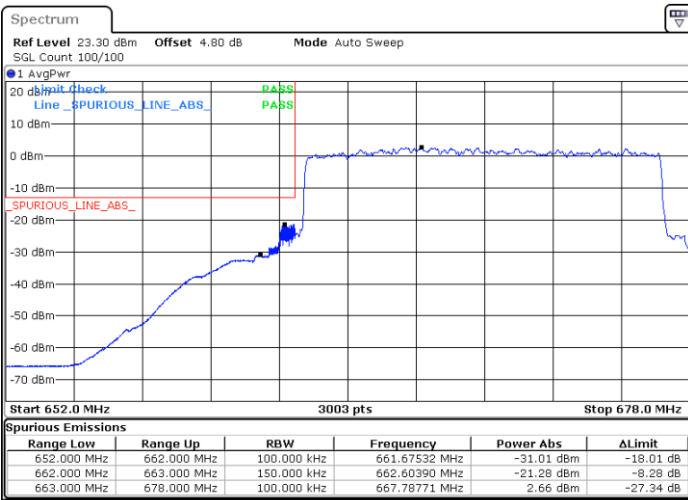


Date: 19 DEC 2020 22:03:28

Date: 19 DEC 2020 22:19:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 22:15:18

Date: 19 DEC 2020 22:28:12