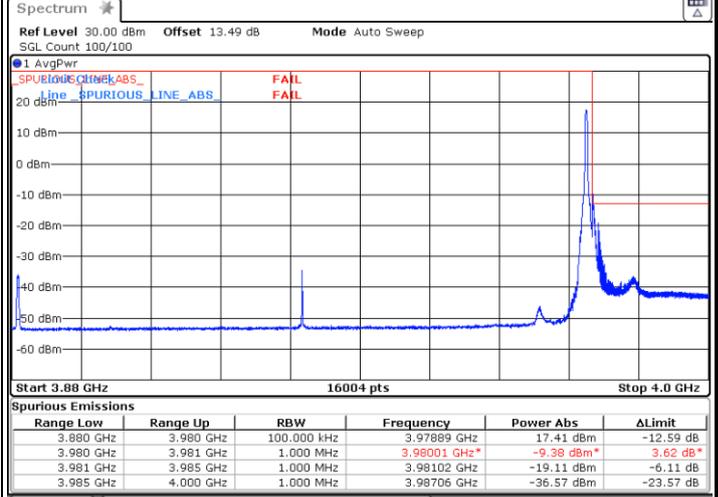
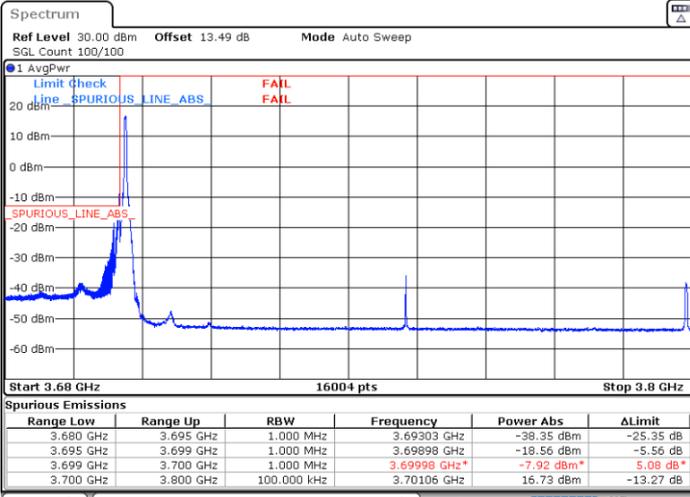




FR1 n77 / 100MHz / DFT-S OFDM / 16Q

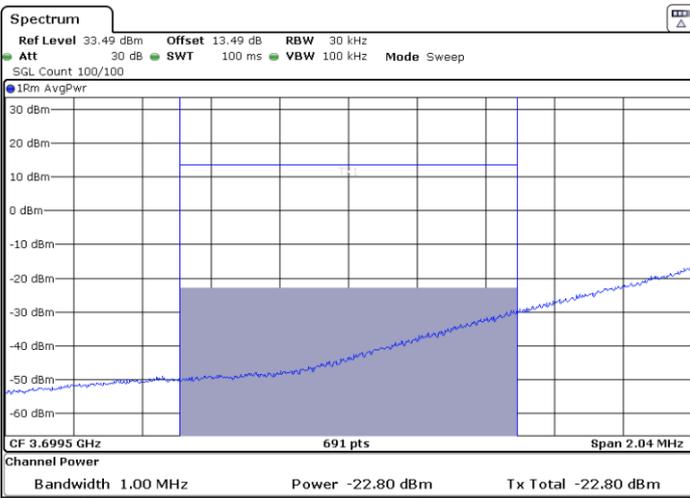
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

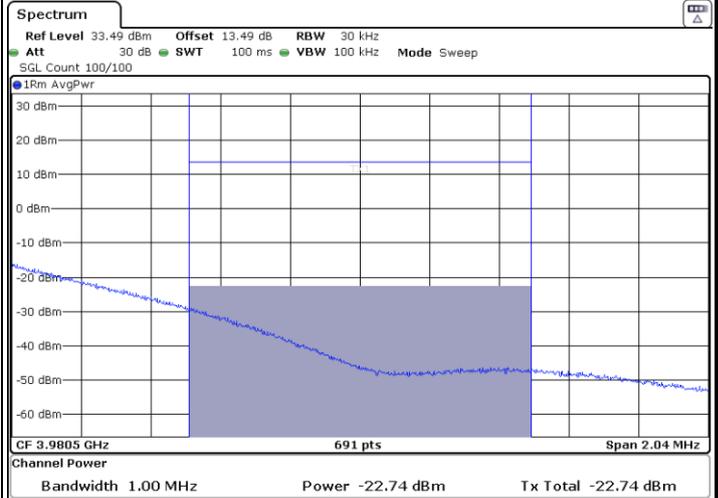


Date: 27.NOV.2021 10:09:26

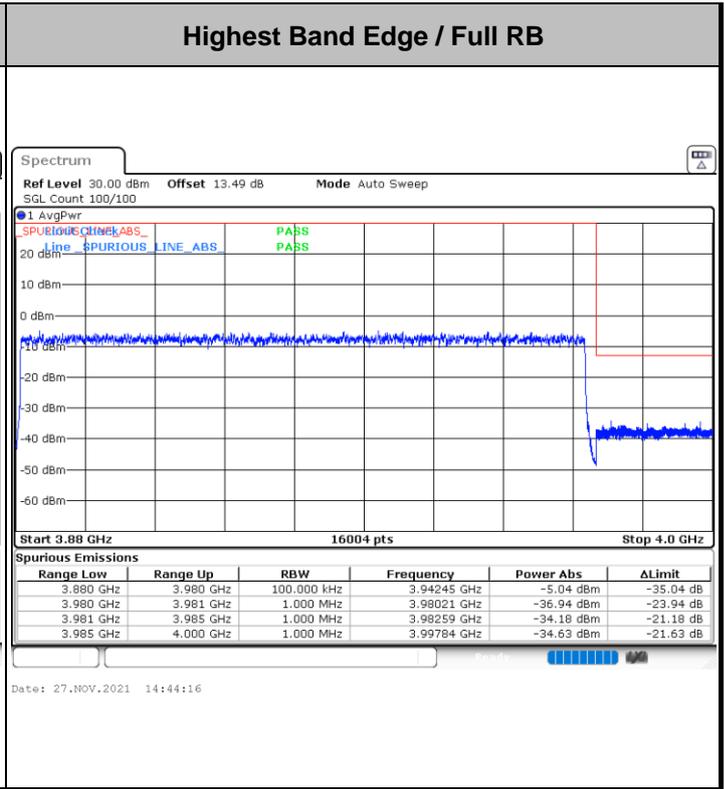
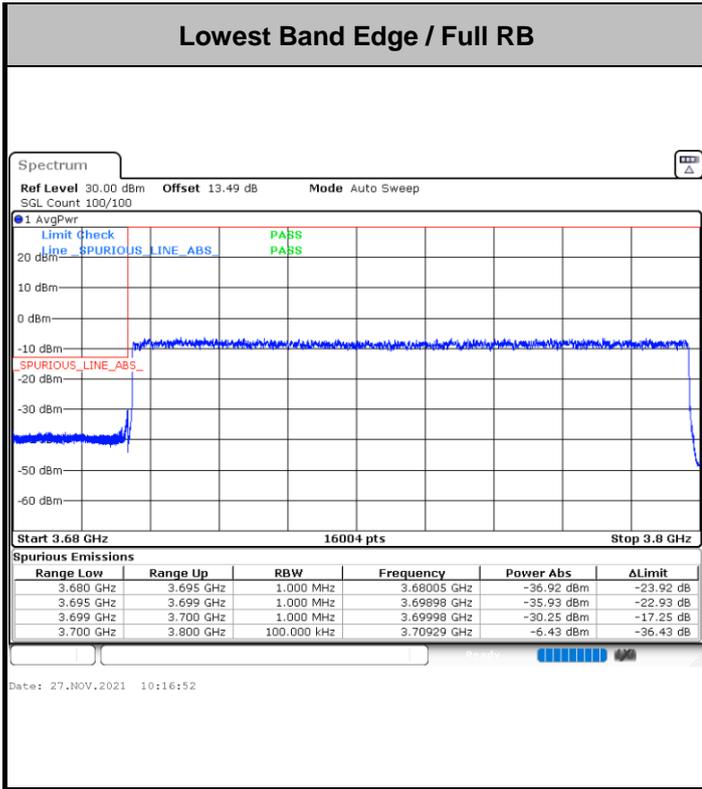
Date: 27.NOV.2021 14:06:14



Date: 27.NOV.2021 15:58:07



Date: 27.NOV.2021 16:03:00

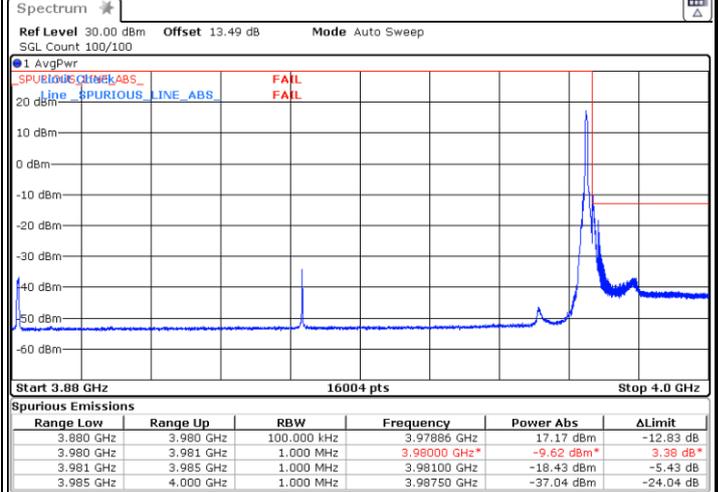
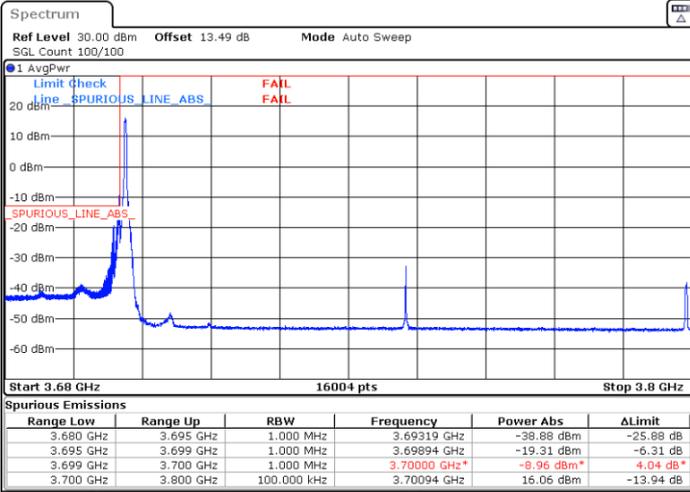




FR1 n77 / 100MHz / DFT-S OFDM / 64Q

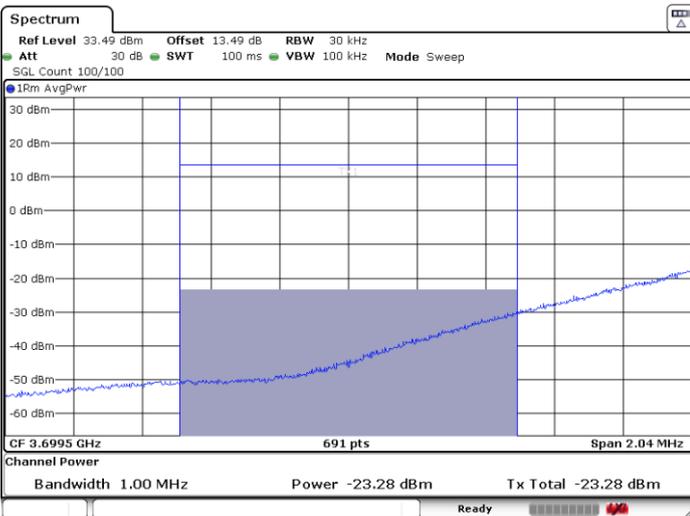
Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

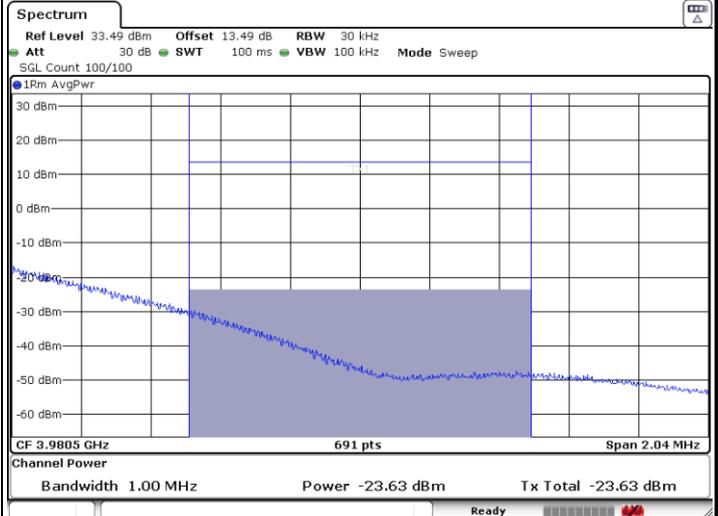


Date: 27.NOV.2021 10:11:03

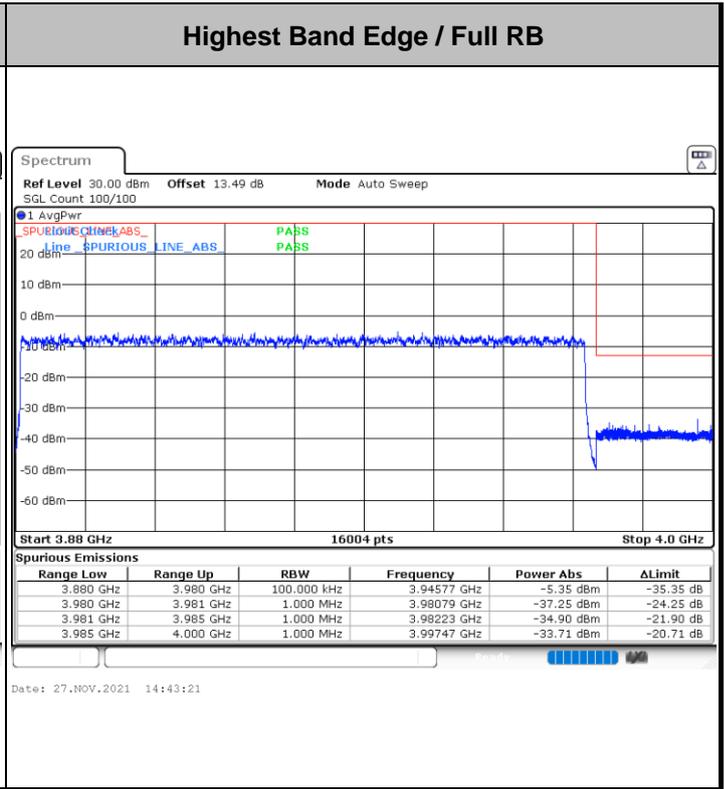
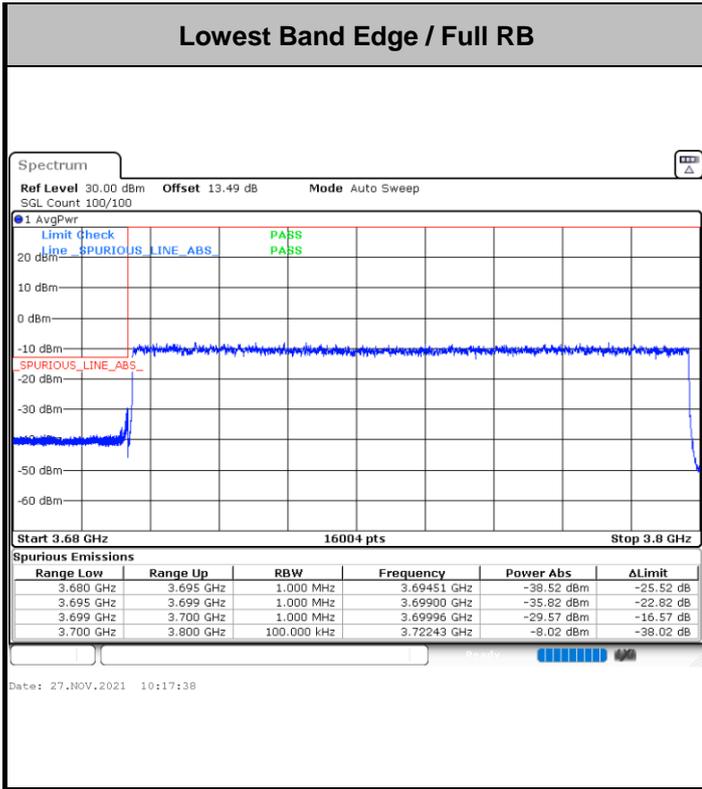
Date: 27.NOV.2021 14:08:42



Date: 27.NOV.2021 15:58:45



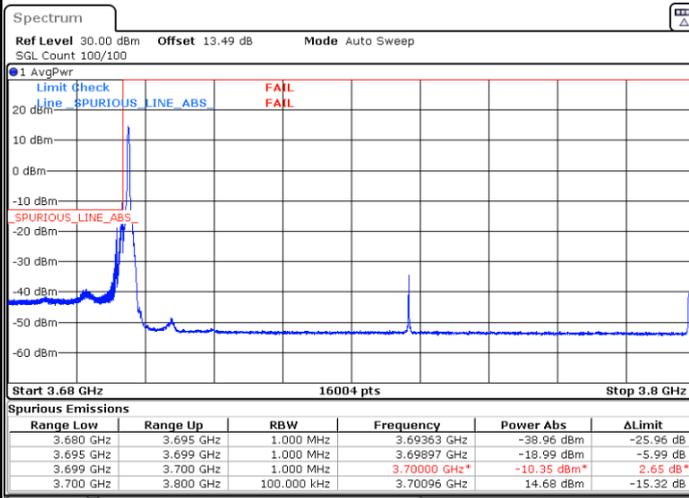
Date: 27.NOV.2021 16:02:29





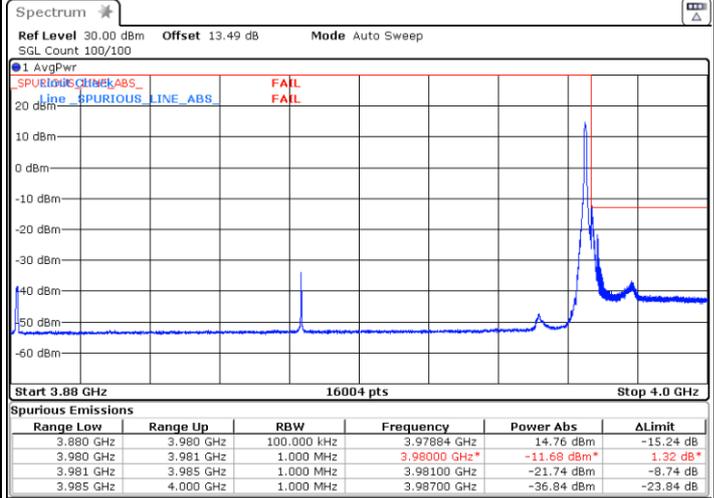
FR1 n77 / 100MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

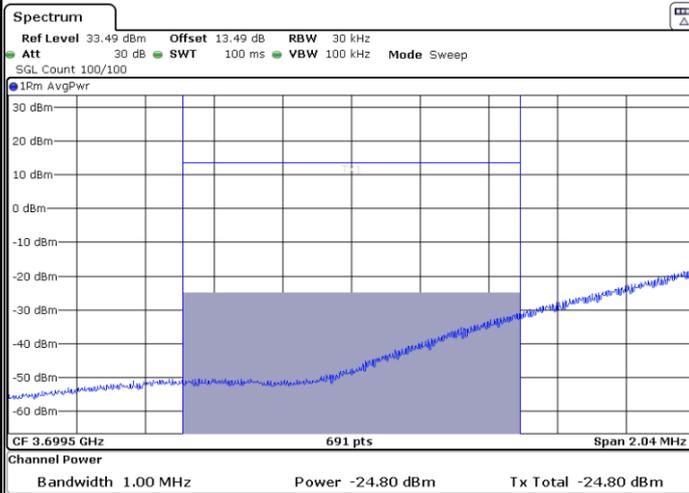


Date: 27.NOV.2021 10:11:58

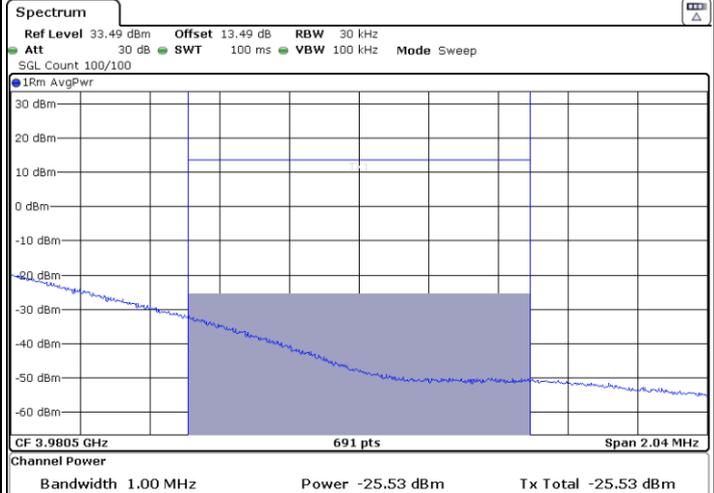
Highest Band Edge / 1RB24



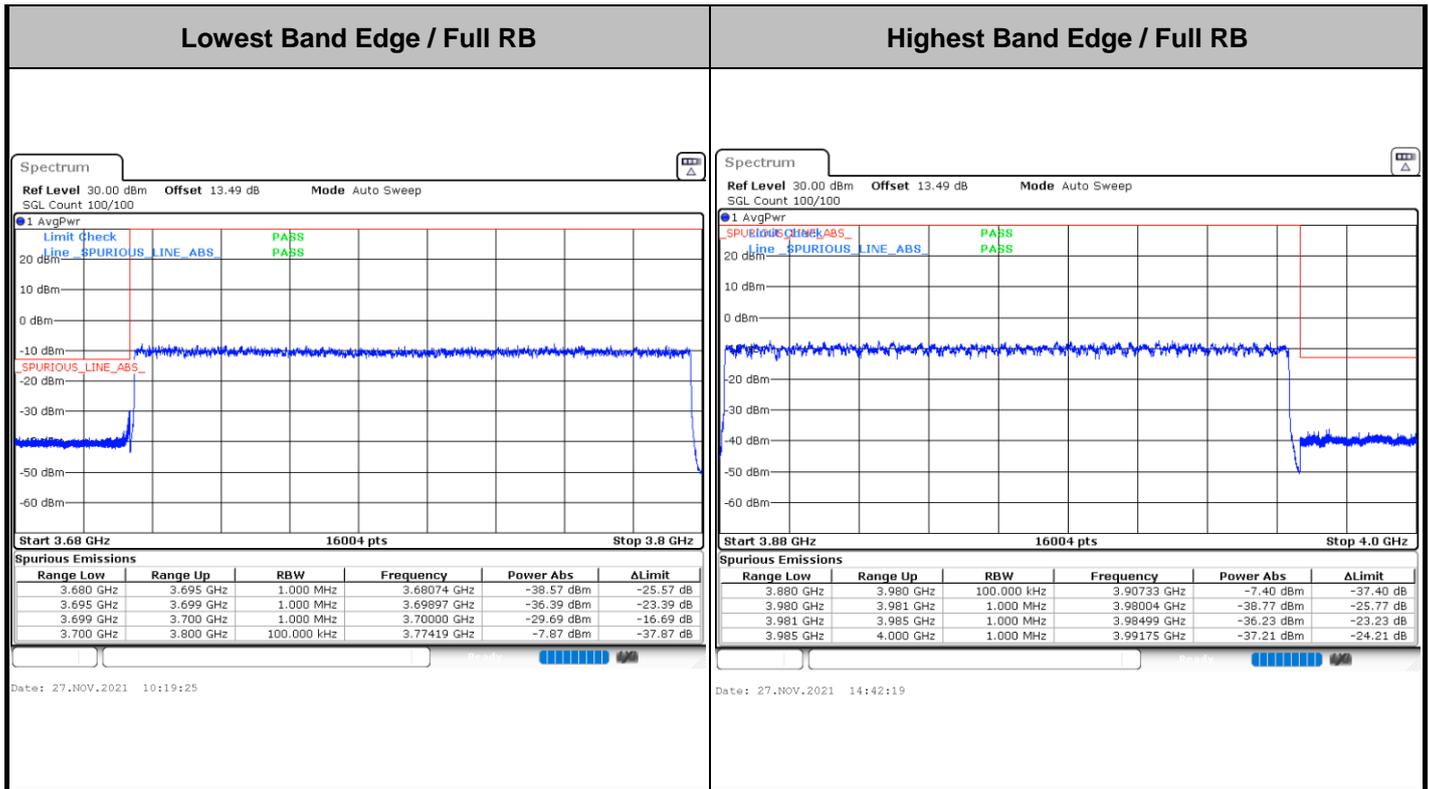
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Date: 27.NOV.2021 16:00:10



Date: 27.NOV.2021 16:01:53



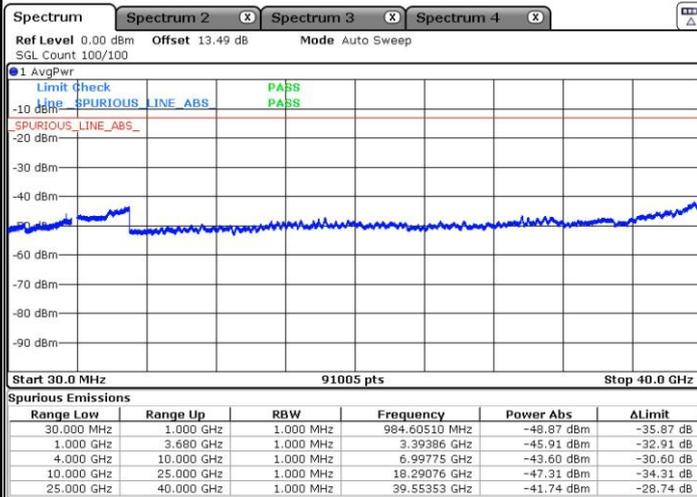


Conducted Spurious Emission

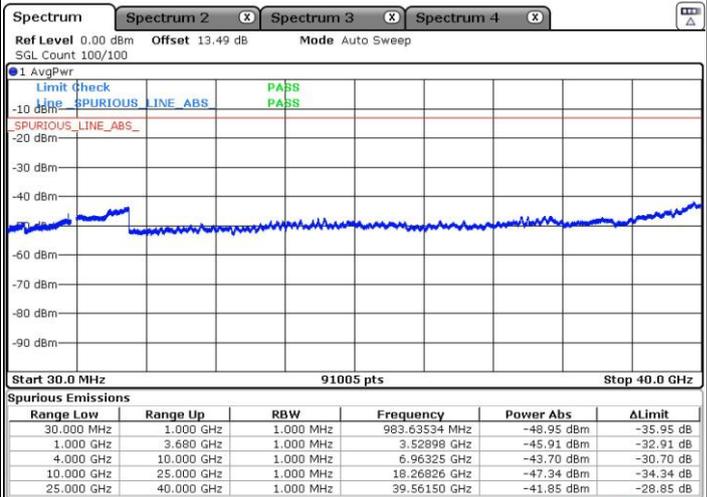
FR1 n77 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

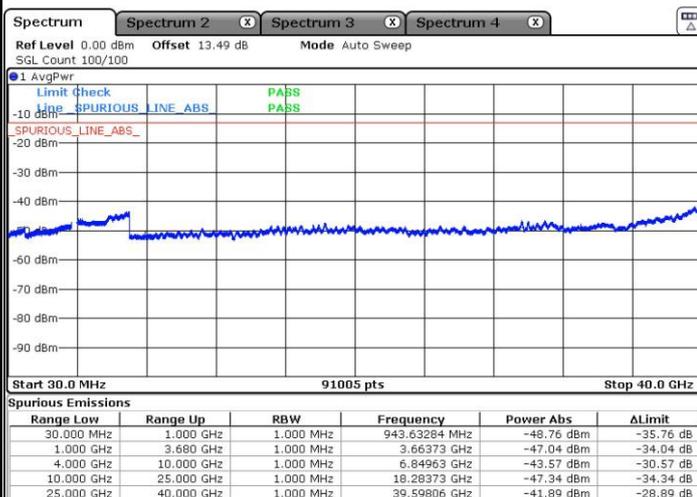


Date: 2.DEC.2021 17:14:02



Date: 2.DEC.2021 17:12:43

Highest Channel / 1RB1



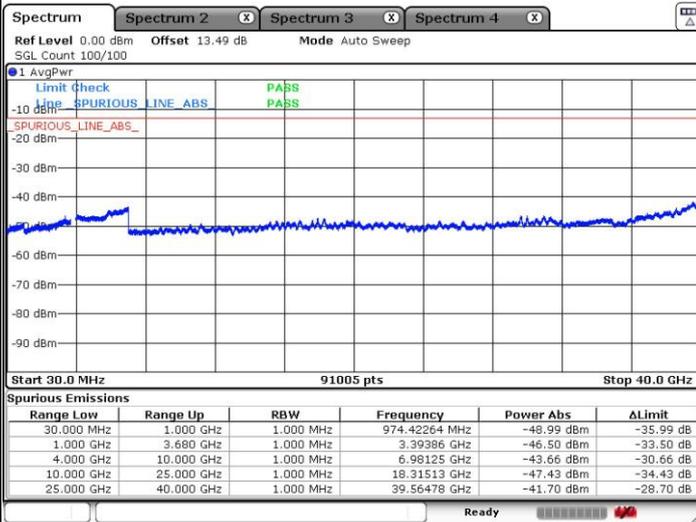
Date: 2.DEC.2021 17:37:11



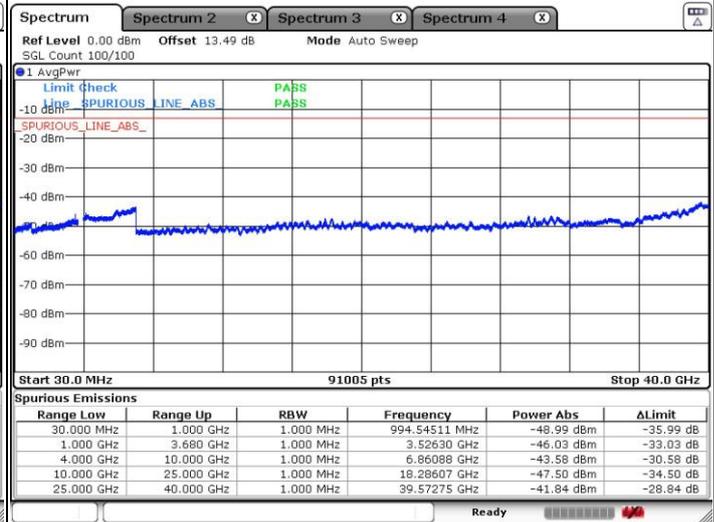
FR1 n77 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

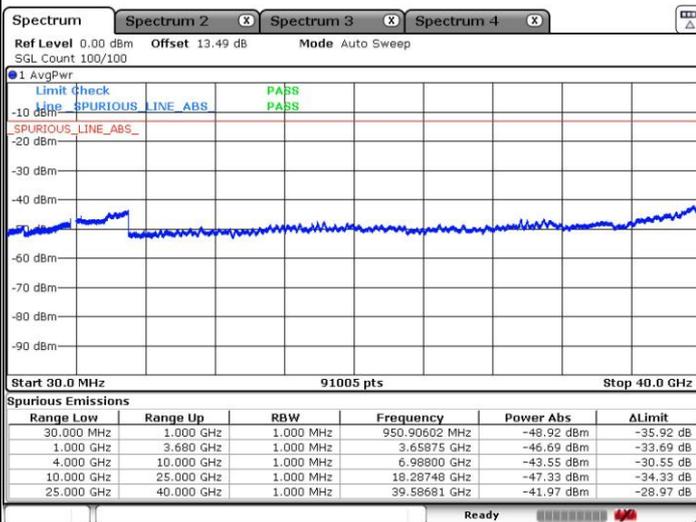


Date: 2.DEC.2021 18:00:37



Date: 2.DEC.2021 17:58:37

Highest Channel / 1RB1



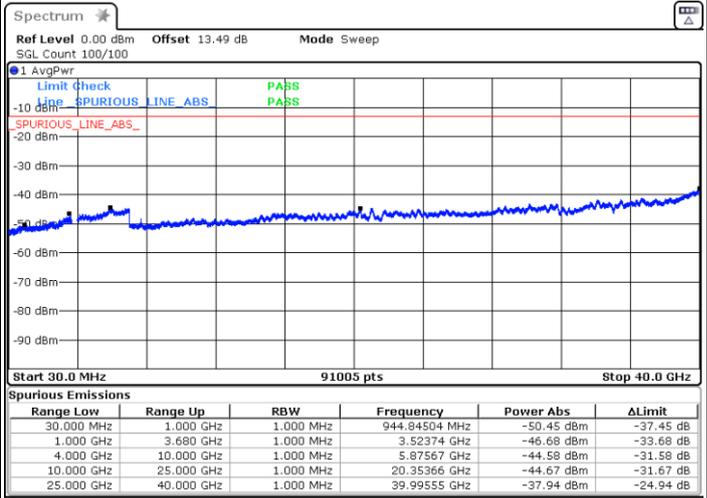
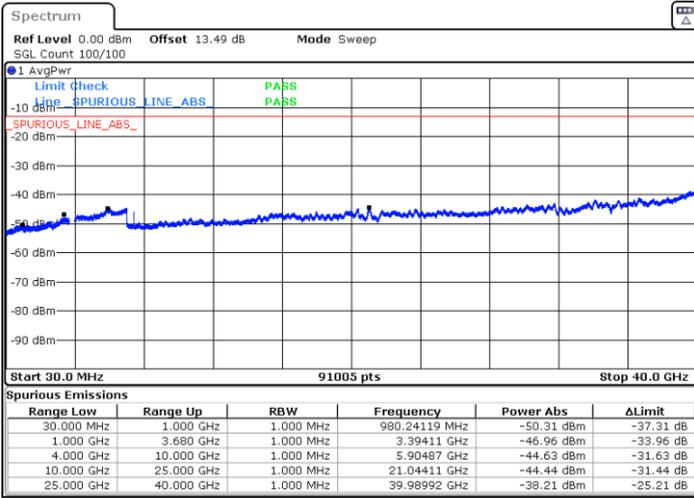
Date: 2.DEC.2021 18:18:34



FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Date: 26.NOV.2021 20:35:52

Date: 26.NOV.2021 20:34:26

Highest Channel / 1RB1



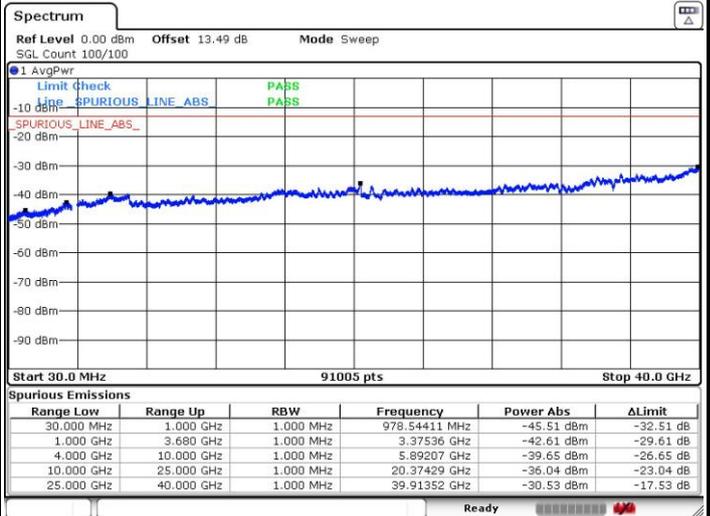
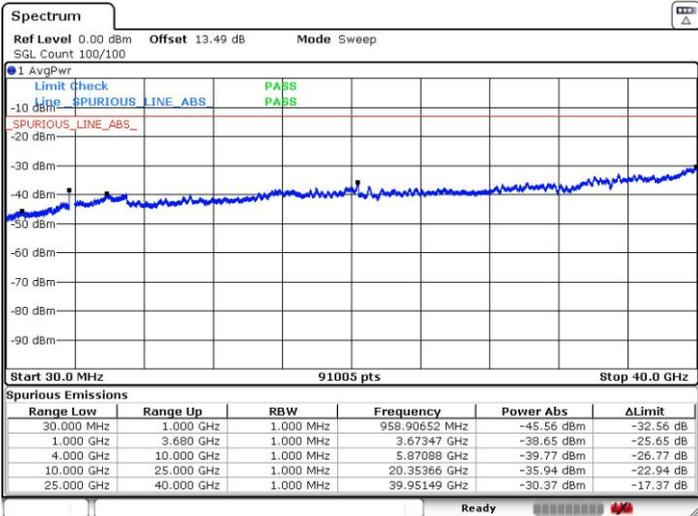
Date: 26.NOV.2021 20:37:58



FR1 n77 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

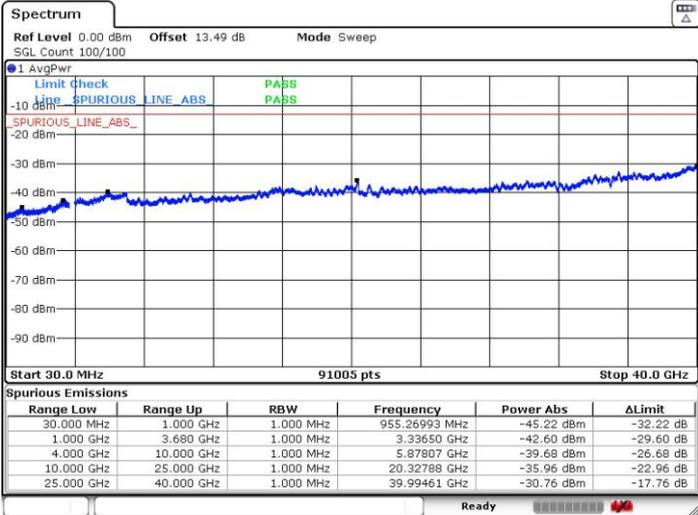
Middle Channel / 1RB1



Date: 26.NOV.2021 21:11:54

Date: 26.NOV.2021 21:18:14

Highest Channel / 1RB1



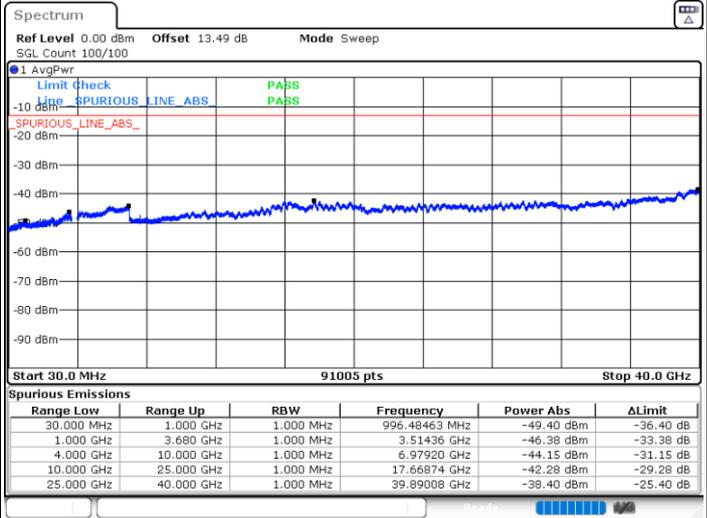
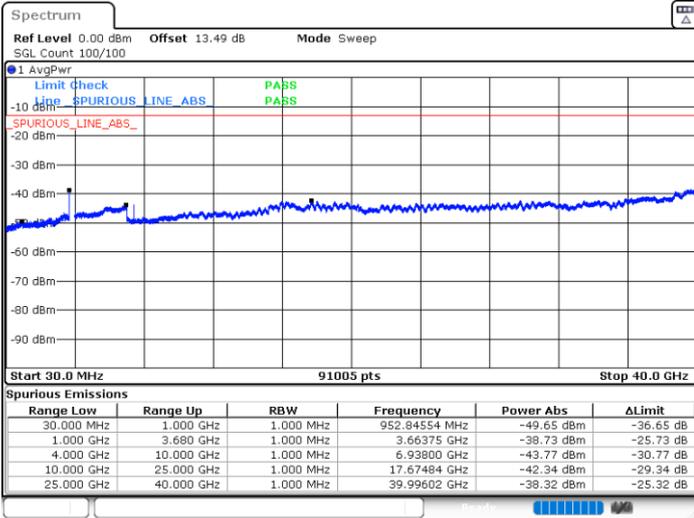
Date: 26.NOV.2021 21:37:10



FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

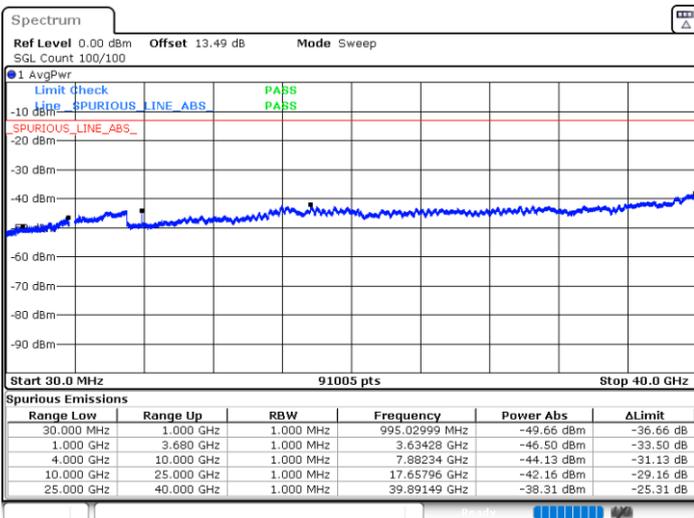
Middle Channel / 1RB1



Date: 27.NOV.2021 05:33:17

Date: 27.NOV.2021 05:35:48

Highest Channel / 1RB1



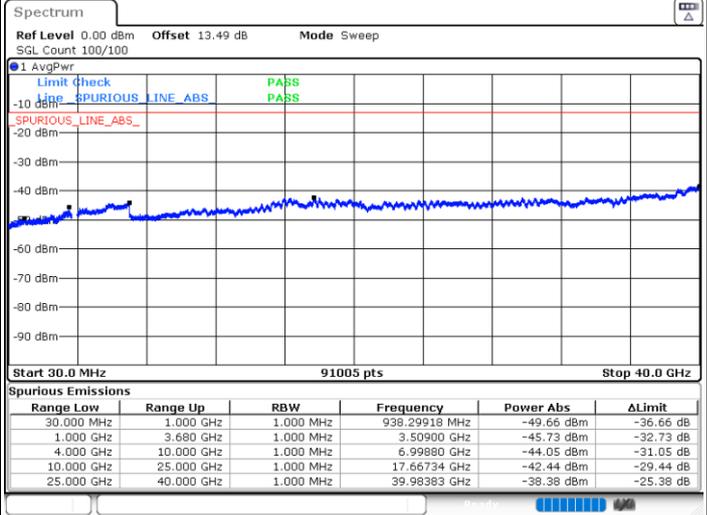
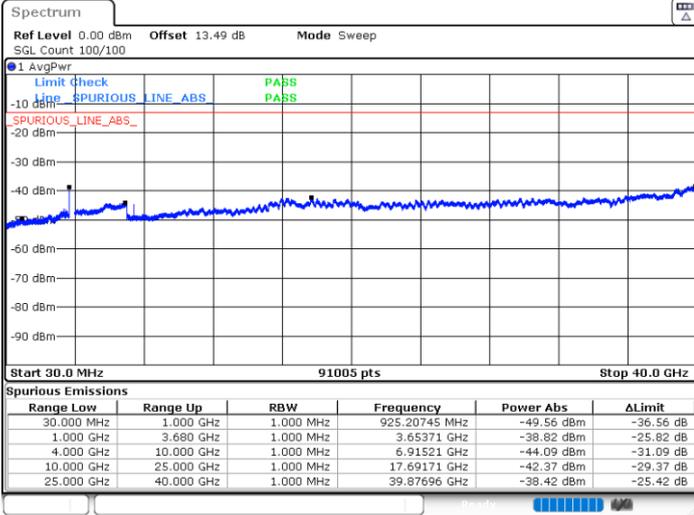
Date: 27.NOV.2021 05:37:26



FR1 n77 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

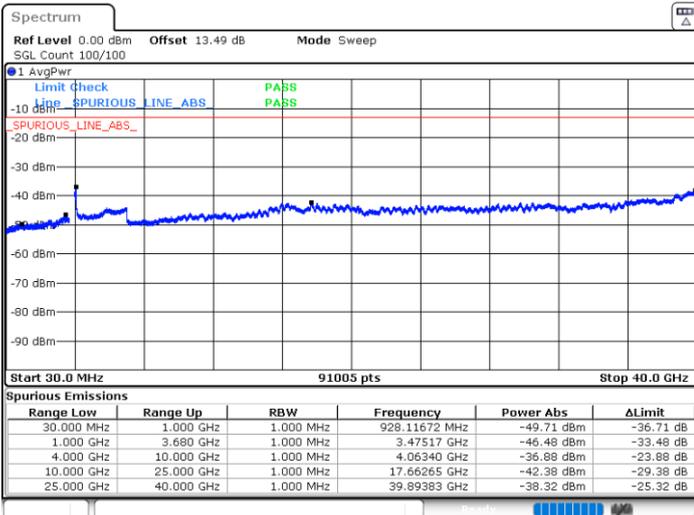
Middle Channel / 1RB1



Date: 27.NOV.2021 06:20:44

Date: 27.NOV.2021 06:23:41

Highest Channel / 1RB1



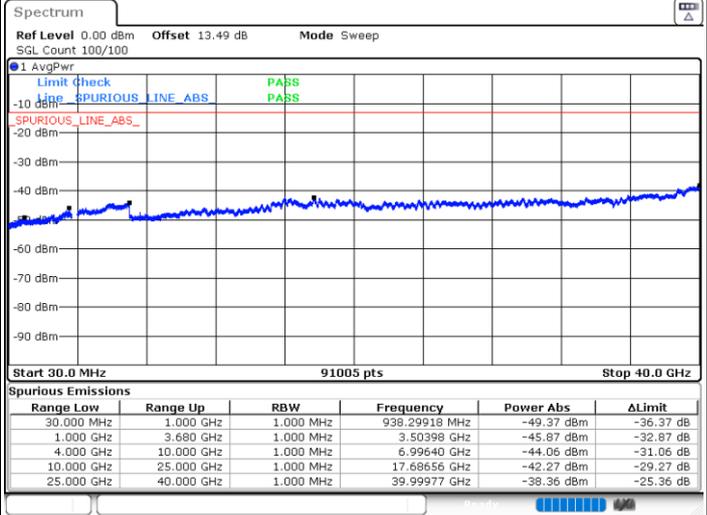
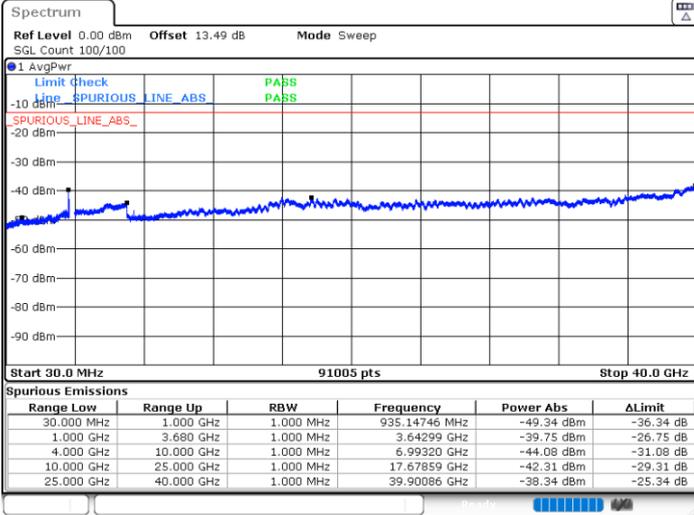
Date: 27.NOV.2021 06:40:54



FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

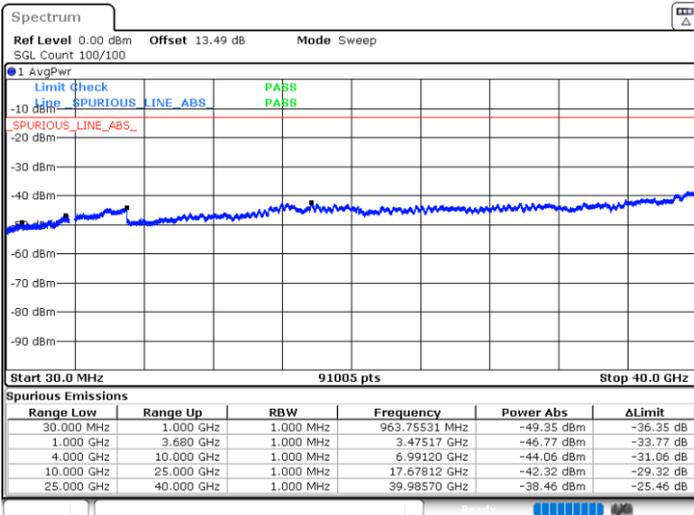
Middle Channel / 1RB1



Date: 27.NOV.2021 07:22:48

Date: 27.NOV.2021 07:24:21

Highest Channel / 1RB1



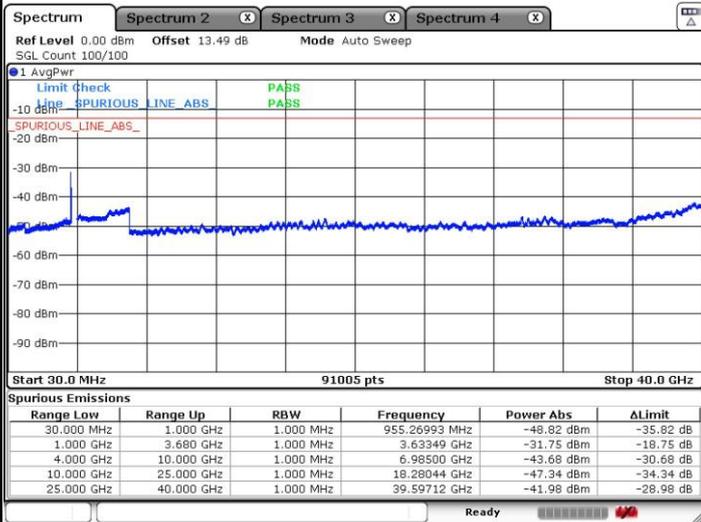
Date: 27.NOV.2021 07:26:05



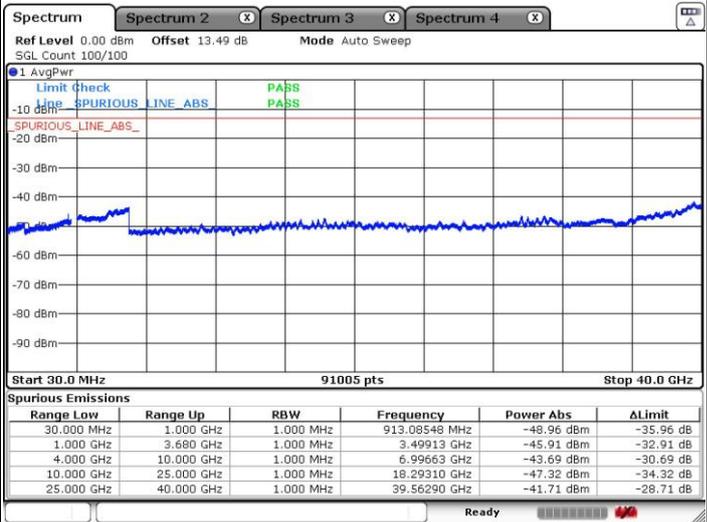
FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

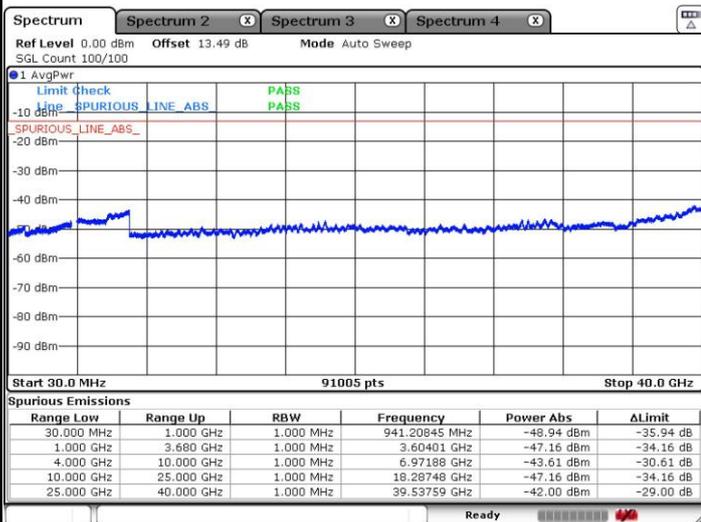


Date: 2.DEC.2021 18:39:45



Date: 2.DEC.2021 18:38:00

Highest Channel / 1RB1



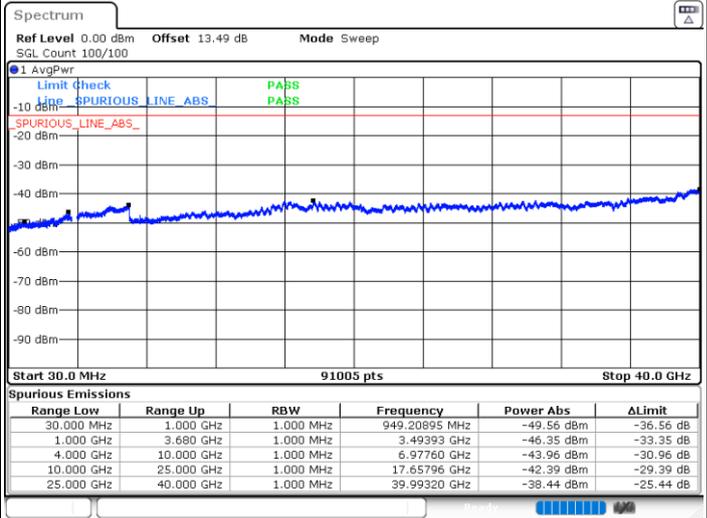
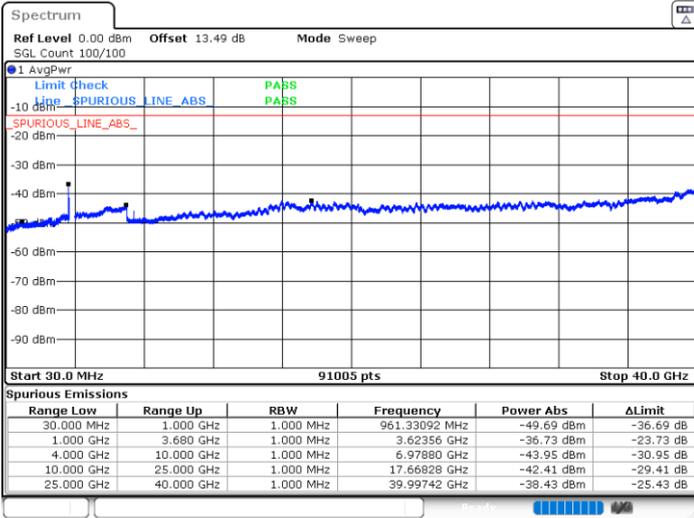
Date: 2.DEC.2021 18:55:21



FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

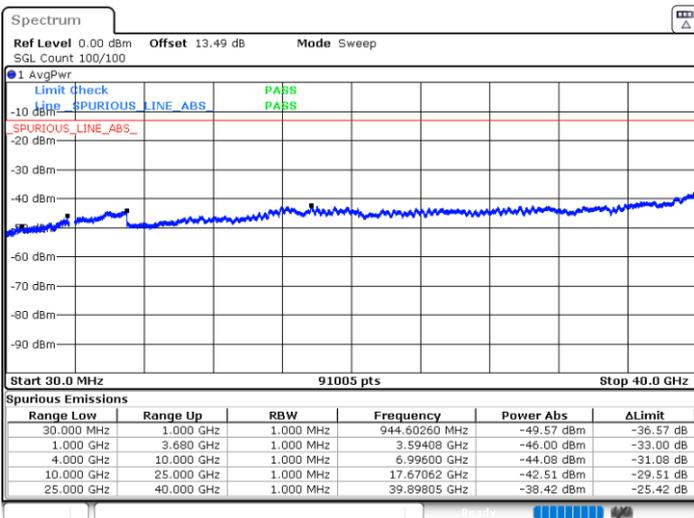
Middle Channel / 1RB1



Date: 27.NOV.2021 08:22:50

Date: 27.NOV.2021 08:33:48

Highest Channel / 1RB1



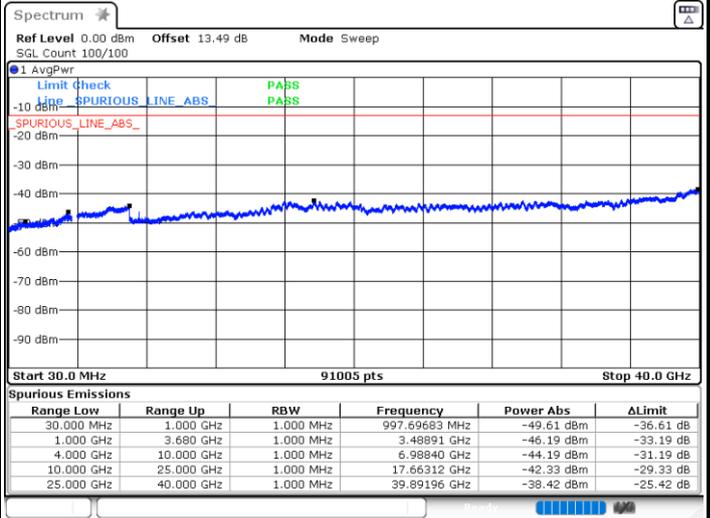
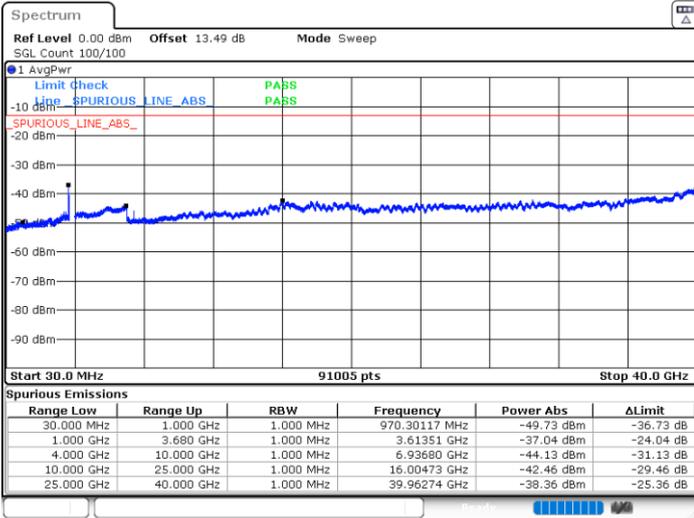
Date: 27.NOV.2021 08:35:40



FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

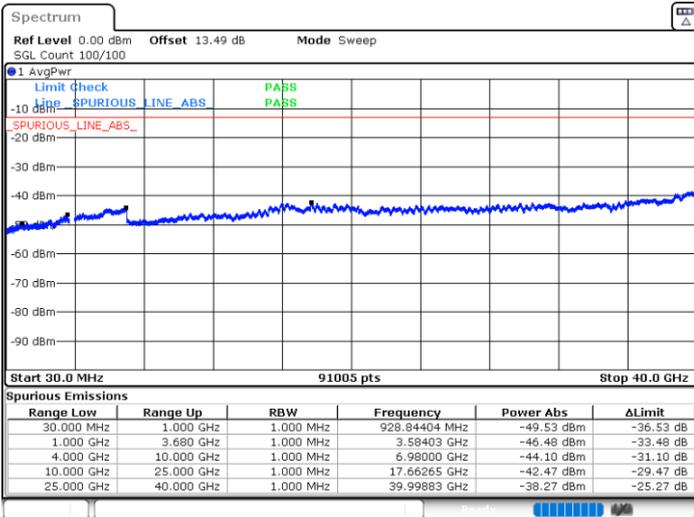
Middle Channel / 1RB1



Date: 27.NOV.2021 09:23:23

Date: 27.NOV.2021 09:30:20

Highest Channel / 1RB1



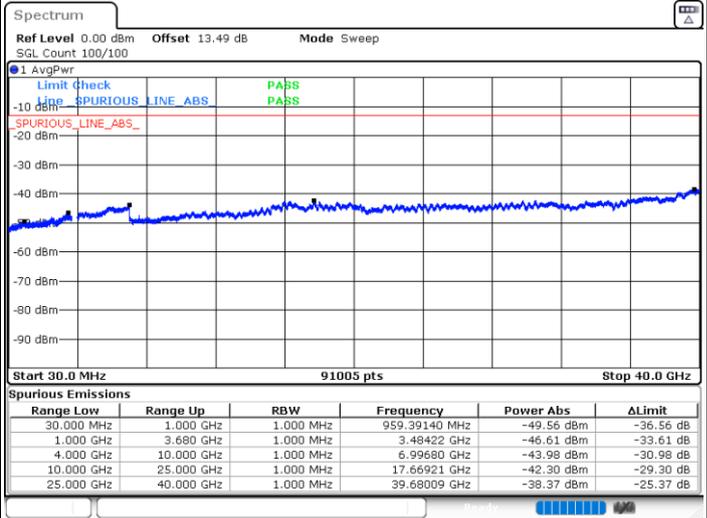
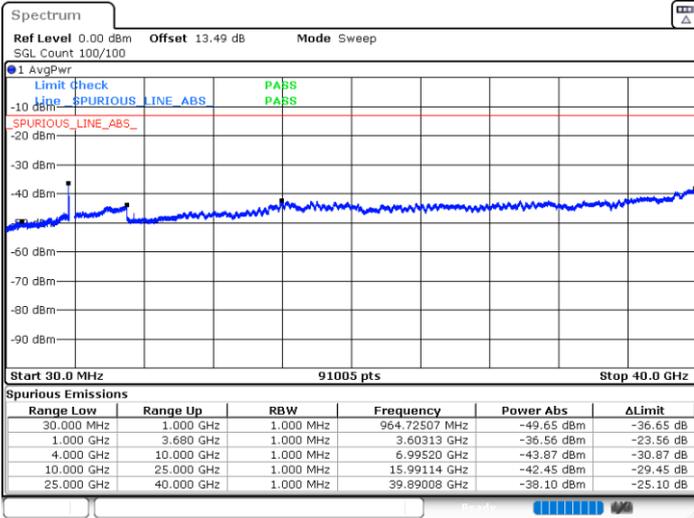
Date: 27.NOV.2021 09:31:59



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

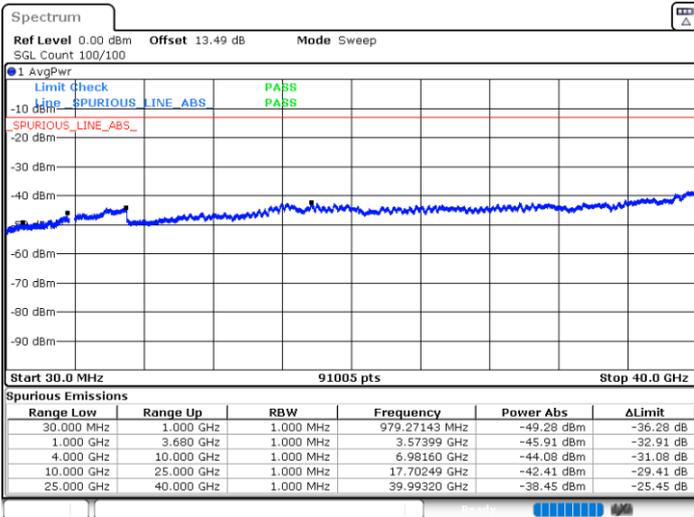
Middle Channel / 1RB1



Date: 27.NOV.2021 10:22:22

Date: 27.NOV.2021 13:54:42

Highest Channel / 1RB1



Date: 27.NOV.2021 13:57:15



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0010	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



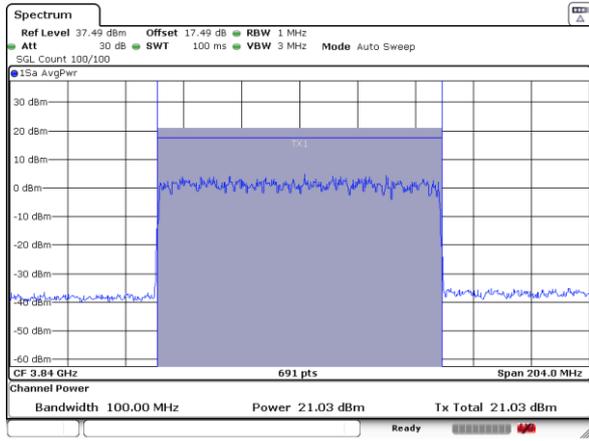
FR1 n77

Peak-to-Average Ratio

Mode	FR1 n77 / 100MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.56	5.15	5.4	5.39	PASS

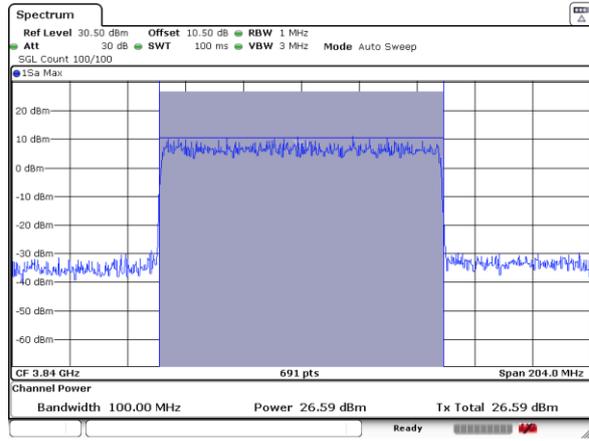


M-FULLRB-Q-A



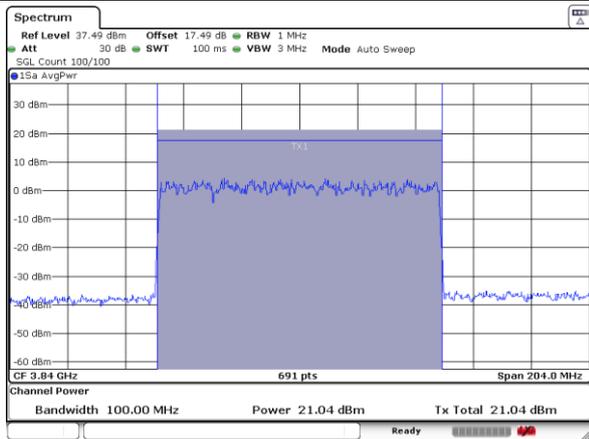
Date: 27.NOV.2021 12:39:59

M-FULLRB-Q-P



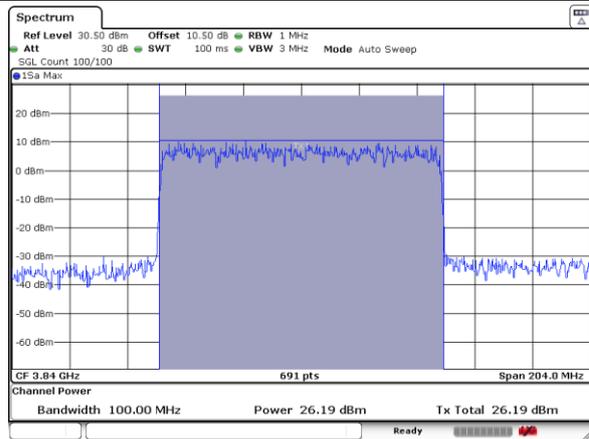
Date: 27.NOV.2021 12:44:47

M-FULLRB-16Q-A



Date: 27.NOV.2021 12:43:43

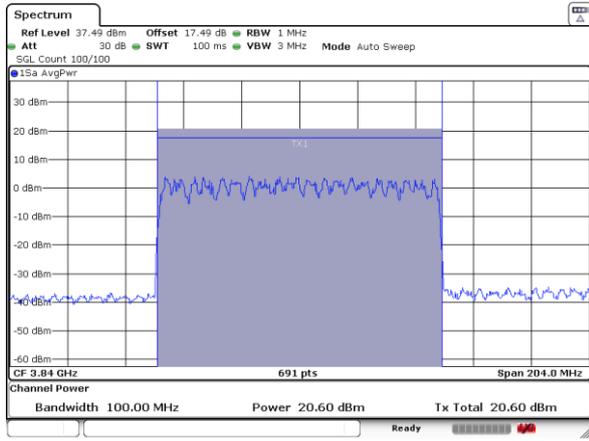
M-FULLRB-16Q-P



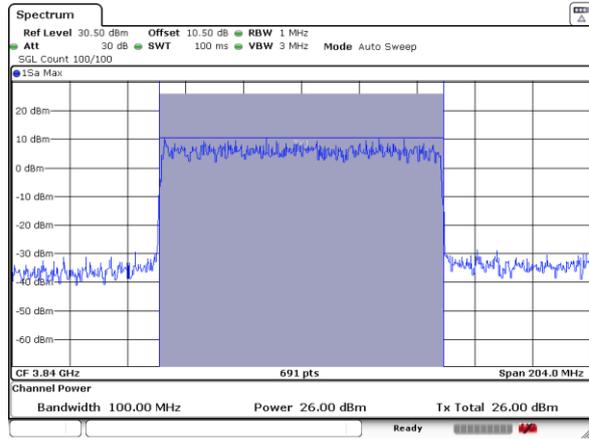
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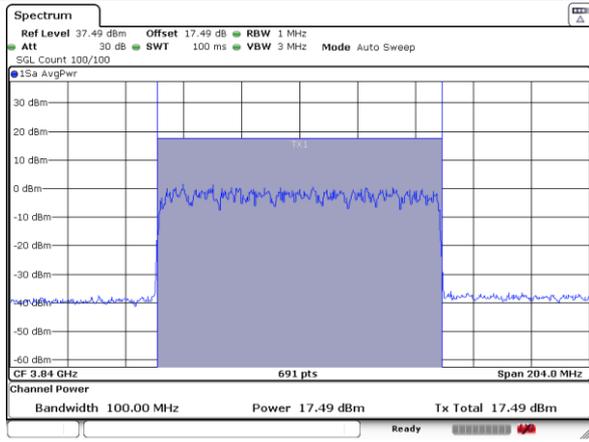
M-FULLRB-64Q-A



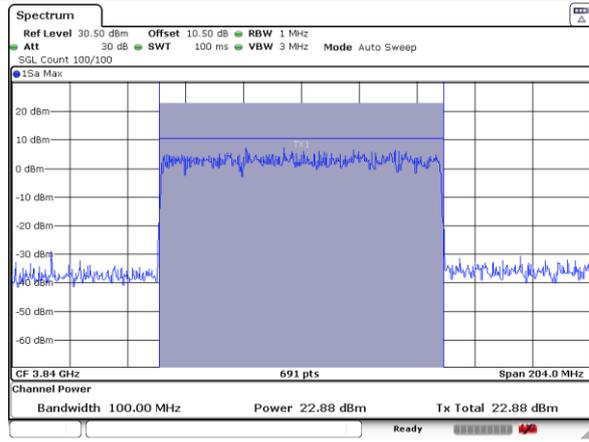
M-FULLRB-64Q-P



M-FULLRB-256Q-A



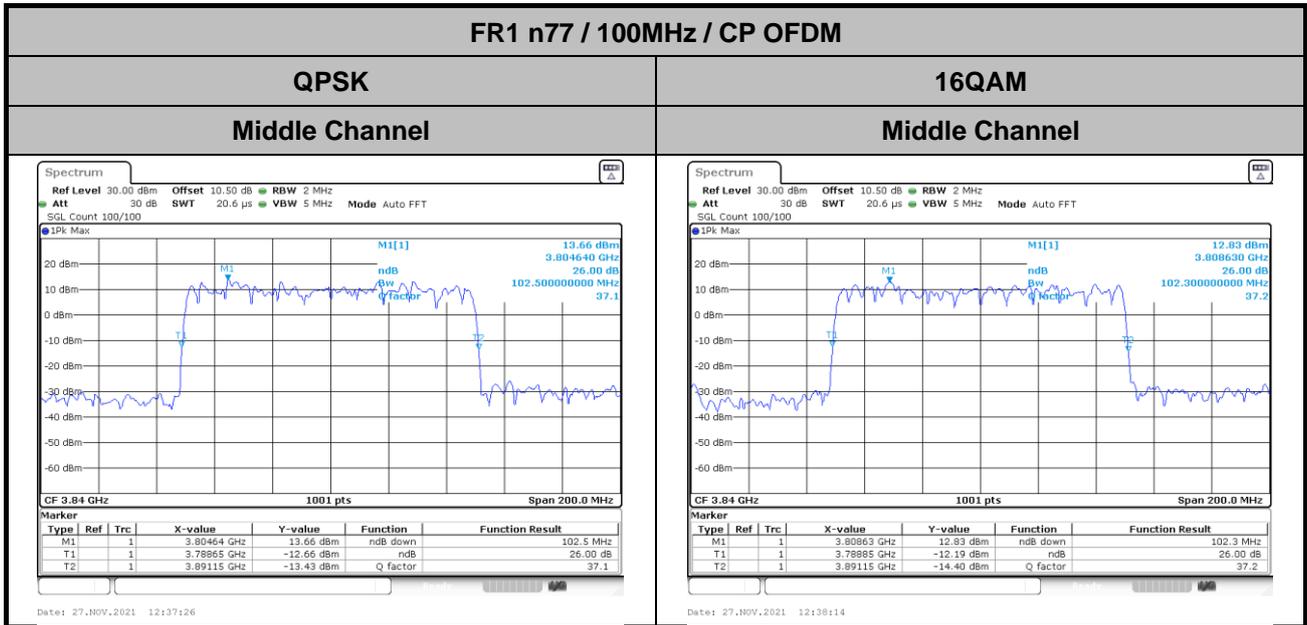
M-FULLRB-256Q-P





26dB Bandwidth

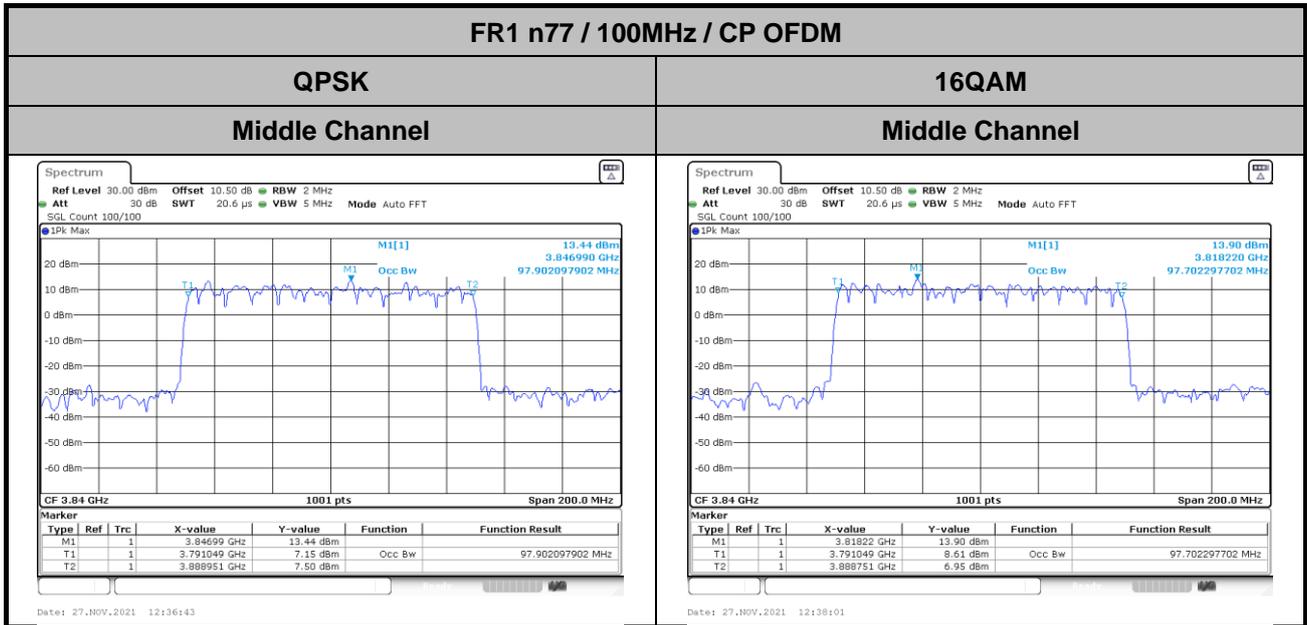
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	102.5	102.3





Occupied Bandwidth

BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	97.90	97.70



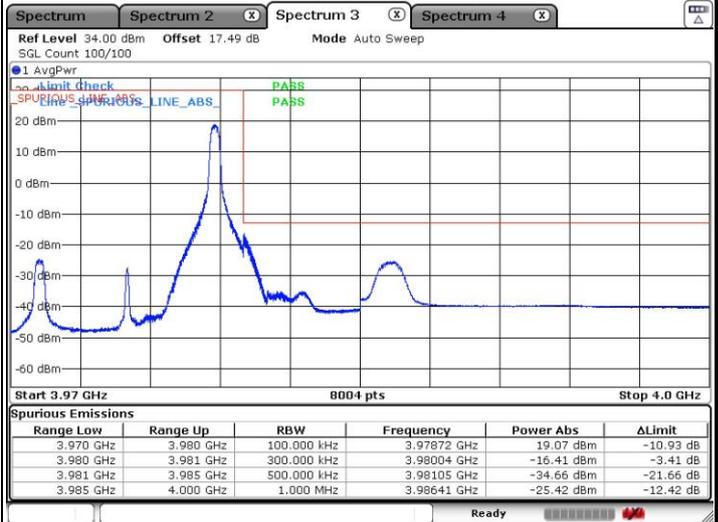
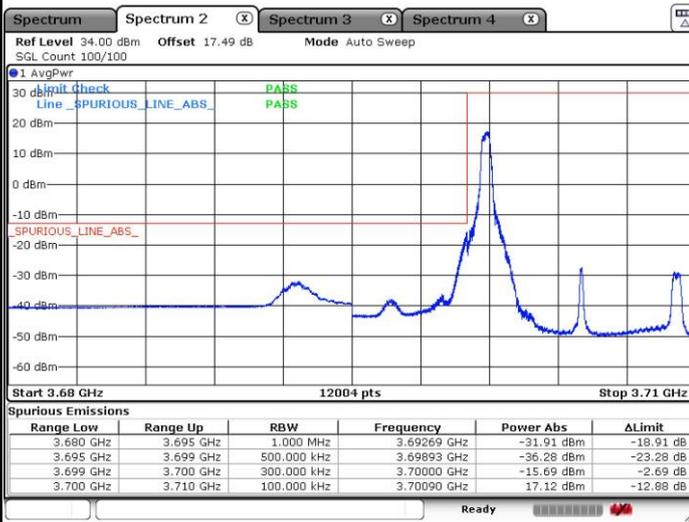


Conducted Band Edge

FR1 n77 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

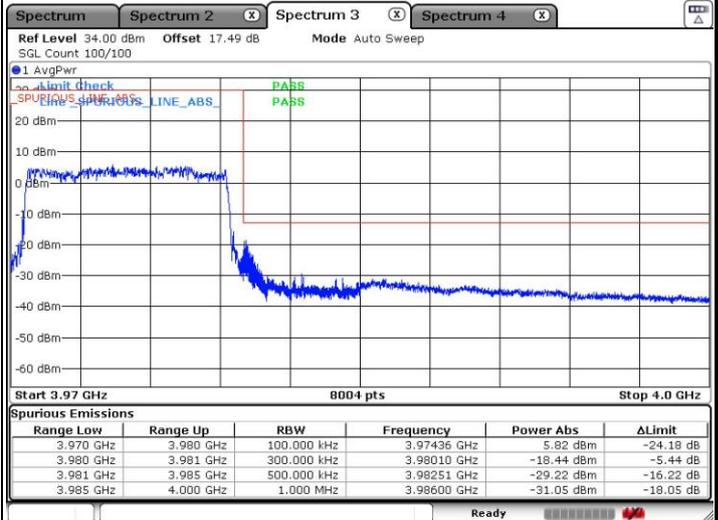
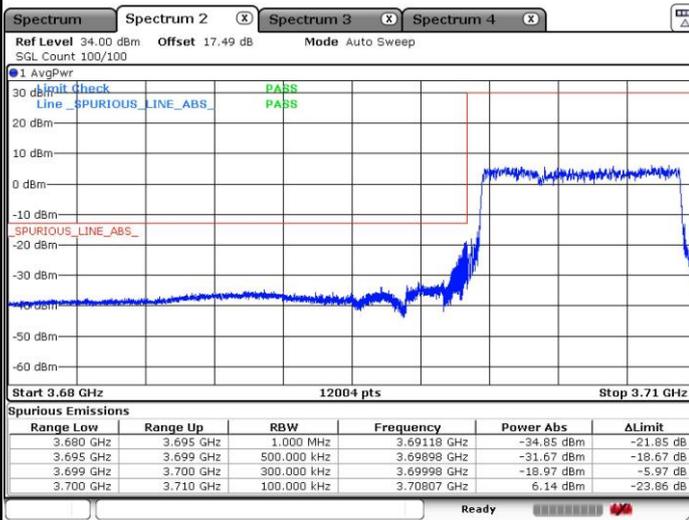


Date: 3.DEC.2021 08:44:39

Date: 3.DEC.2021 09:54:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.DEC.2021 09:45:12

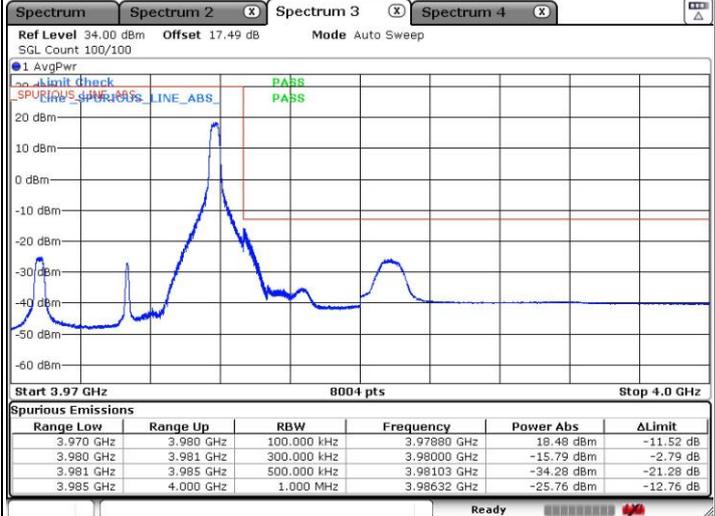
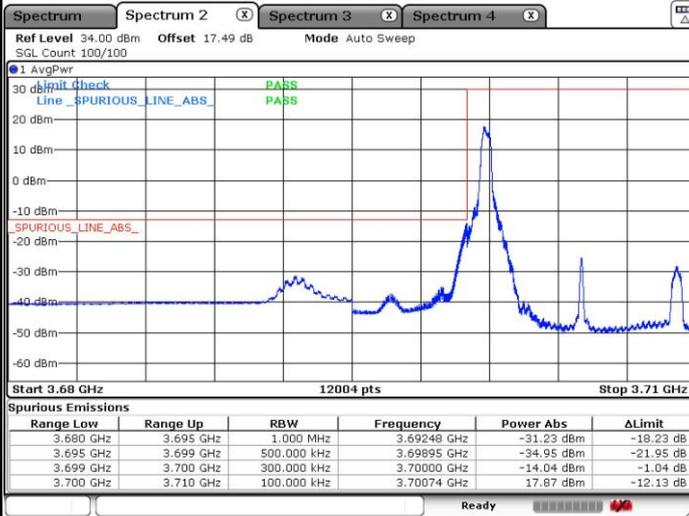
Date: 3.DEC.2021 10:00:11



FR1 n77 / 10MHz / CP OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

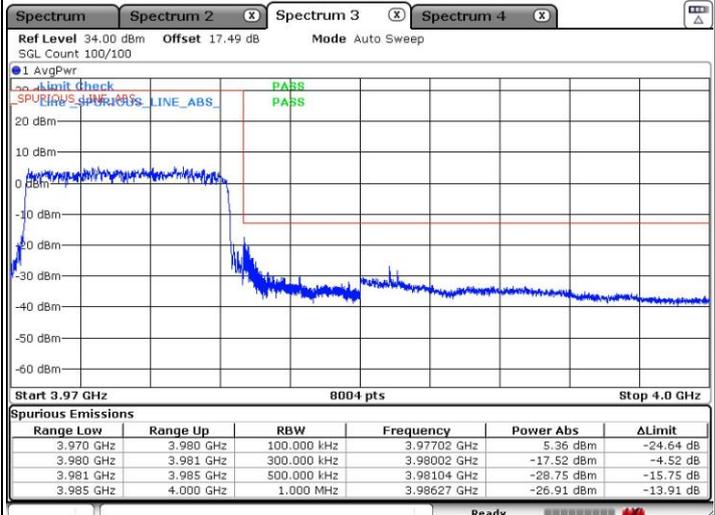
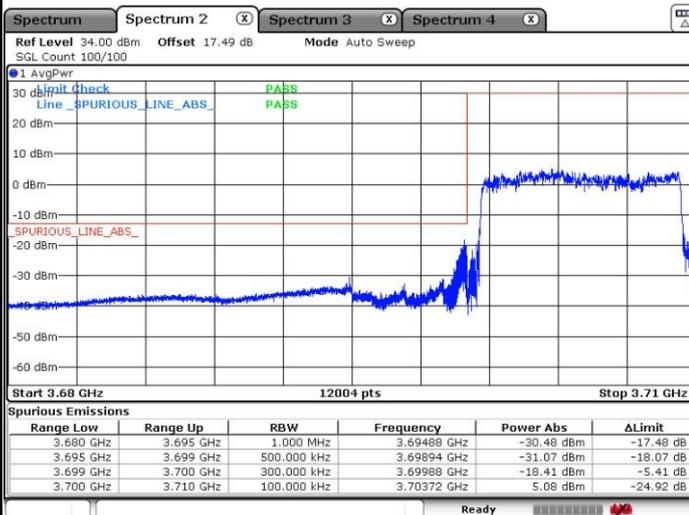


Date: 3.DEC.2021 09:37:41

Date: 3.DEC.2021 09:56:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.DEC.2021 09:44:34

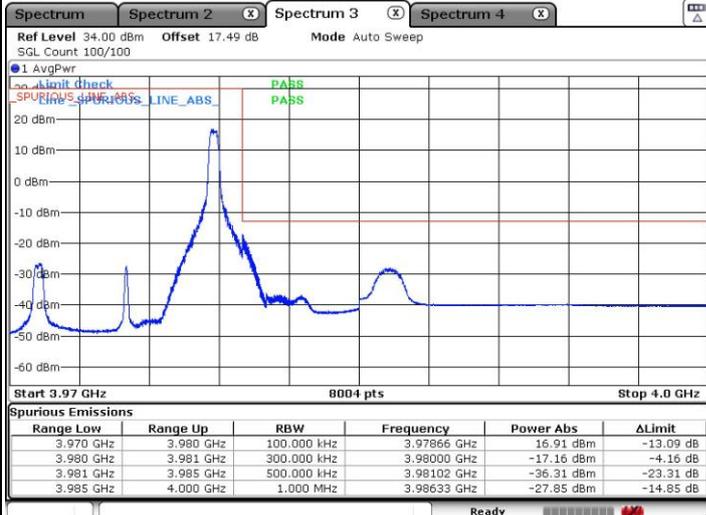
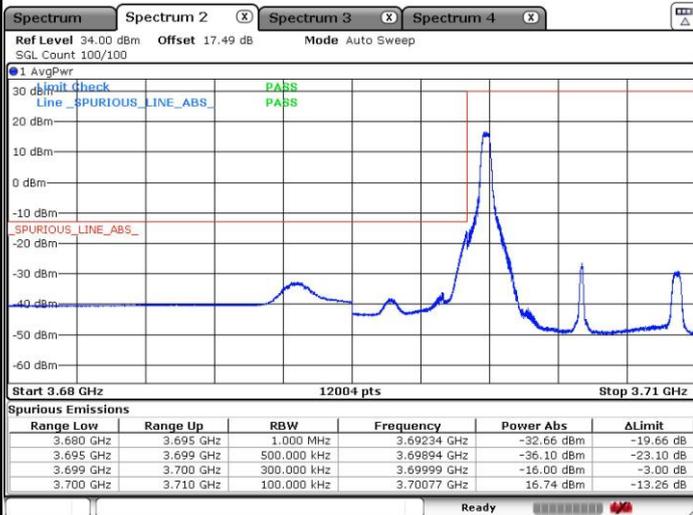
Date: 3.DEC.2021 09:59:51



FR1 n77 /10MHz / CP OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

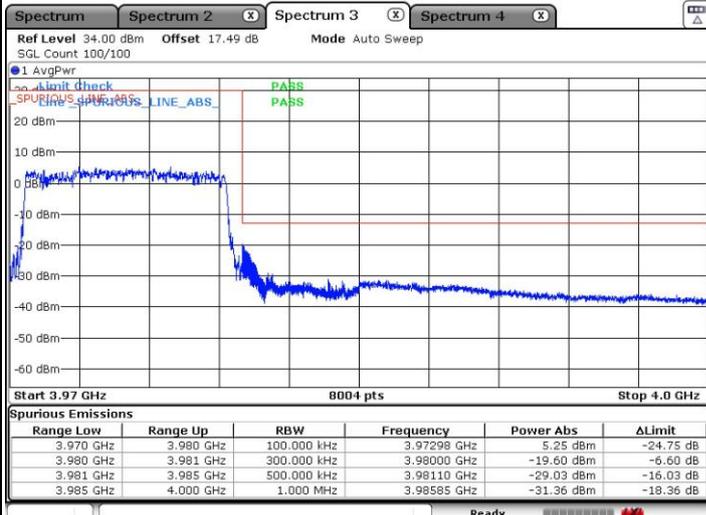
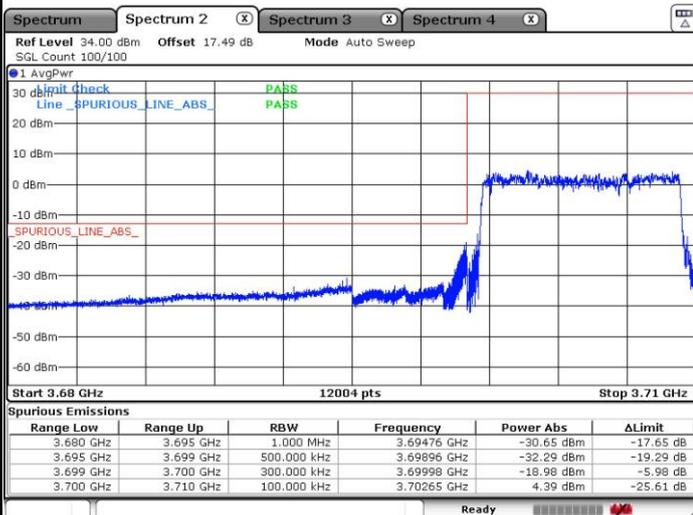


Date: 3.DEC.2021 09:40:28

Date: 3.DEC.2021 09:57:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.DEC.2021 09:44:16

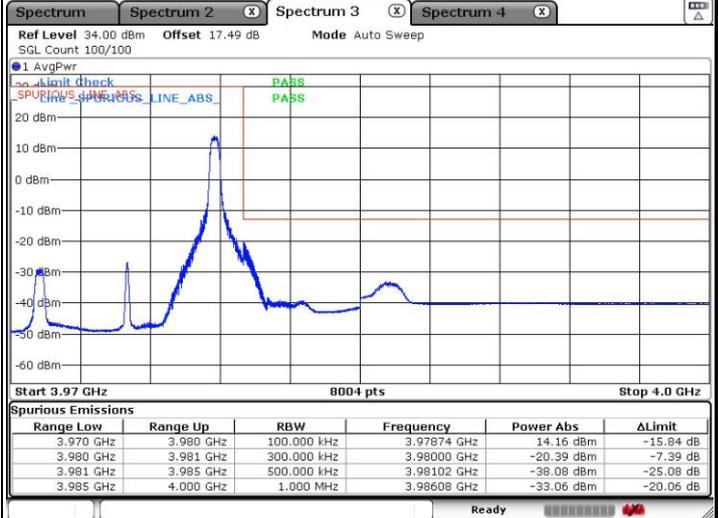
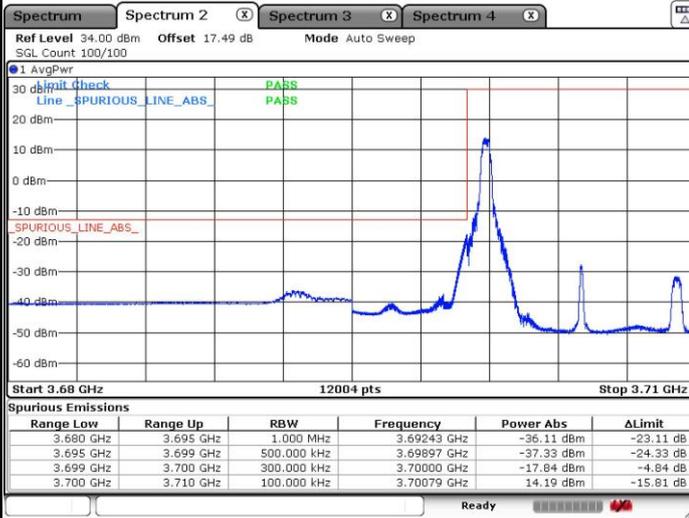
Date: 3.DEC.2021 09:59:33



FR1 n77 /10MHz / CP OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

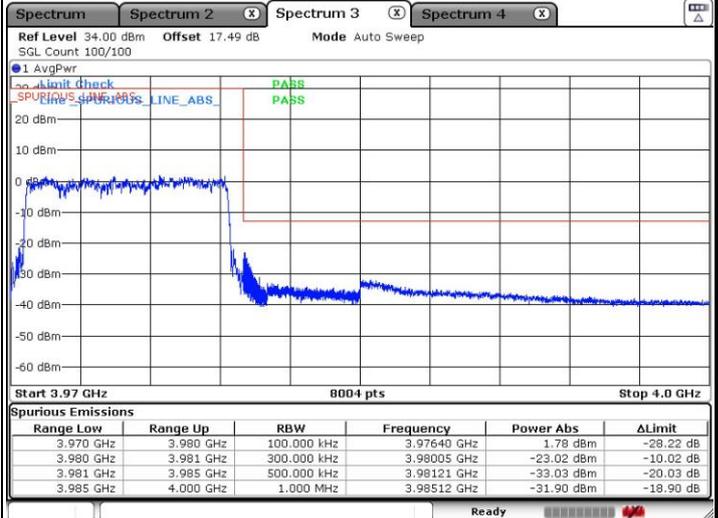
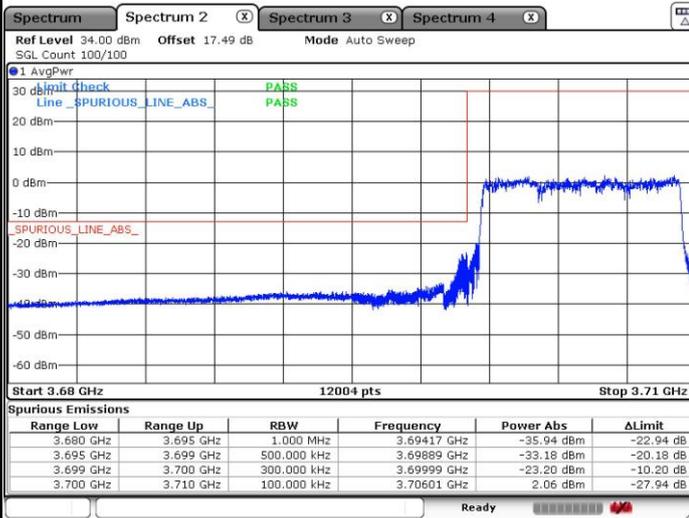


Date: 3.DEC.2021 09:43:05

Date: 3.DEC.2021 09:58:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.DEC.2021 09:43:53

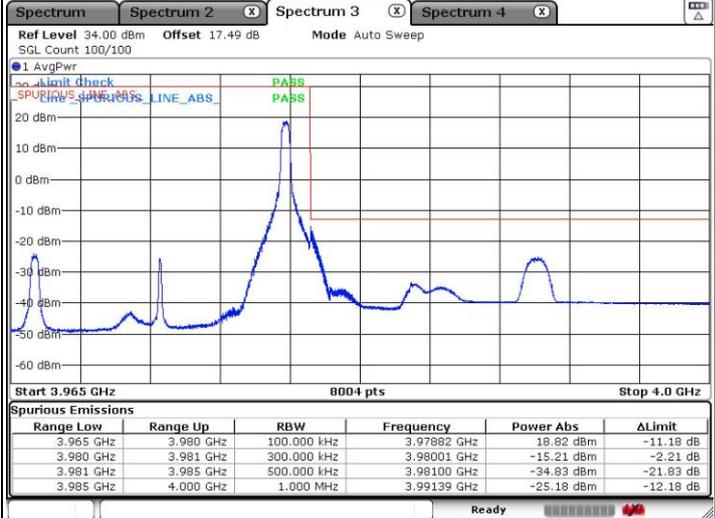
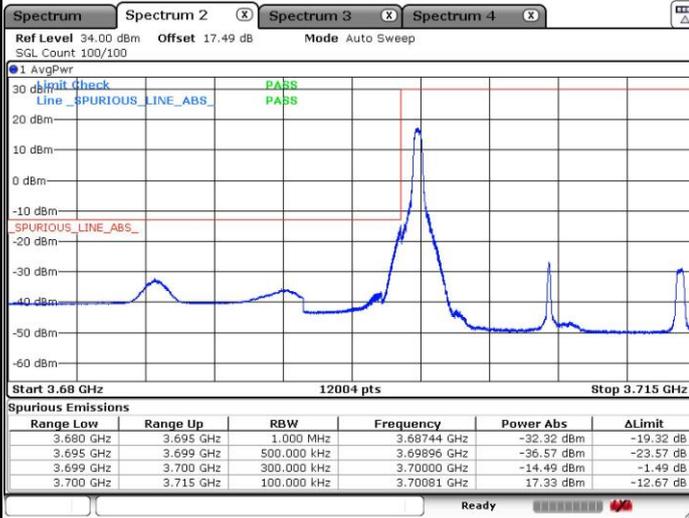
Date: 3.DEC.2021 09:59:10



FR1 n77 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

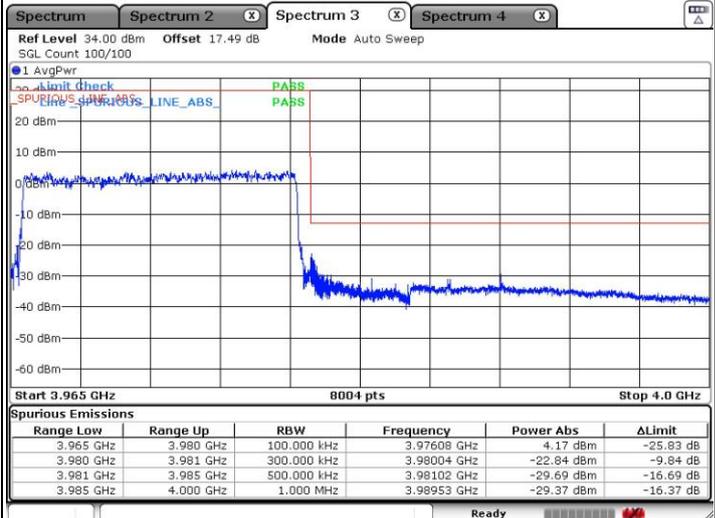
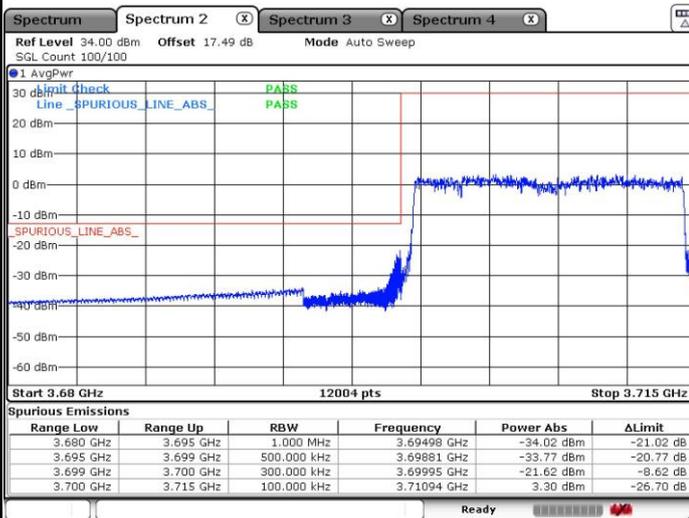


Date: 3.DEC.2021 10:17:57

Date: 3.DEC.2021 10:40:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.DEC.2021 10:31:44

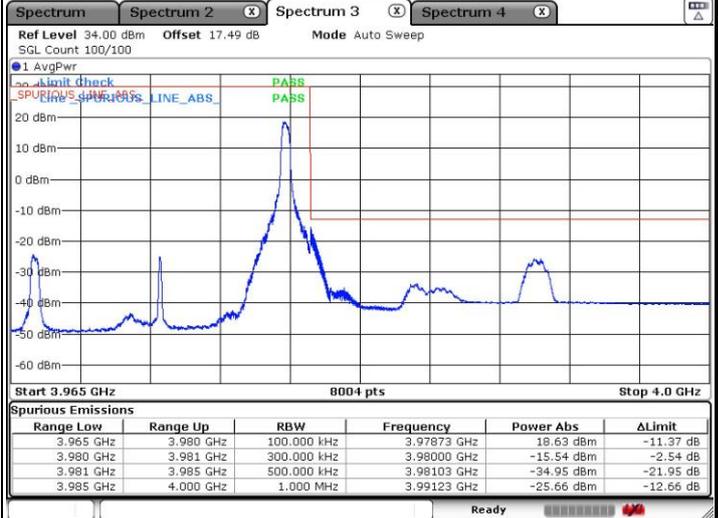
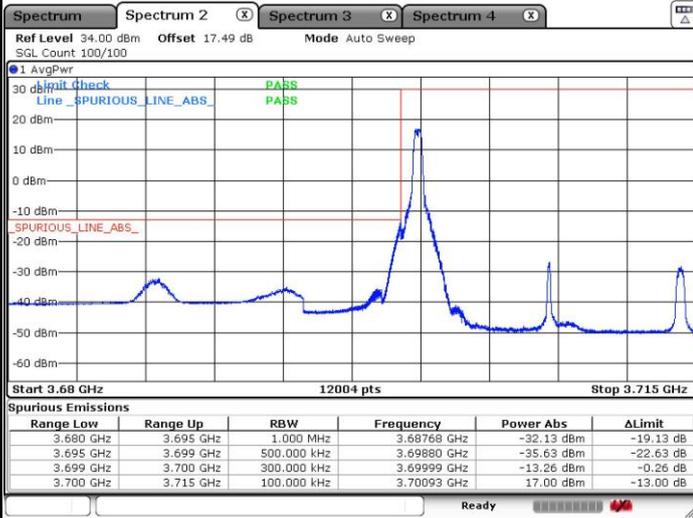
Date: 3.DEC.2021 10:34:51



FR1 n77 / 15MHz / CP OFDM / 16Q

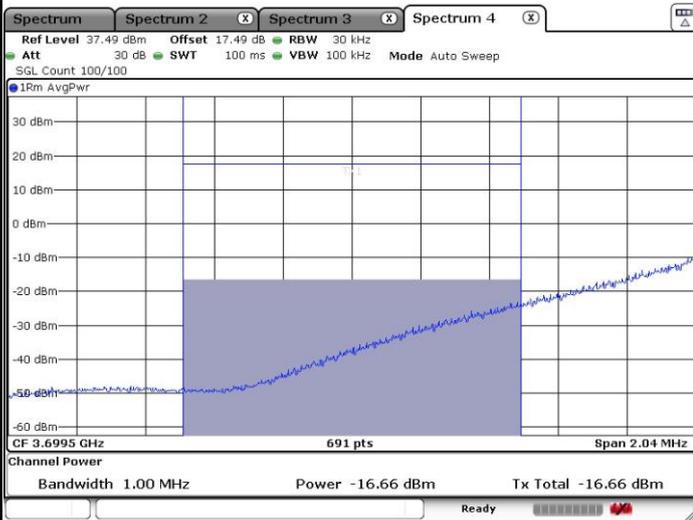
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Date: 3.DEC.2021 10:22:17

Date: 3.DEC.2021 10:39:15



Date: 3.DEC.2021 10:23:26

