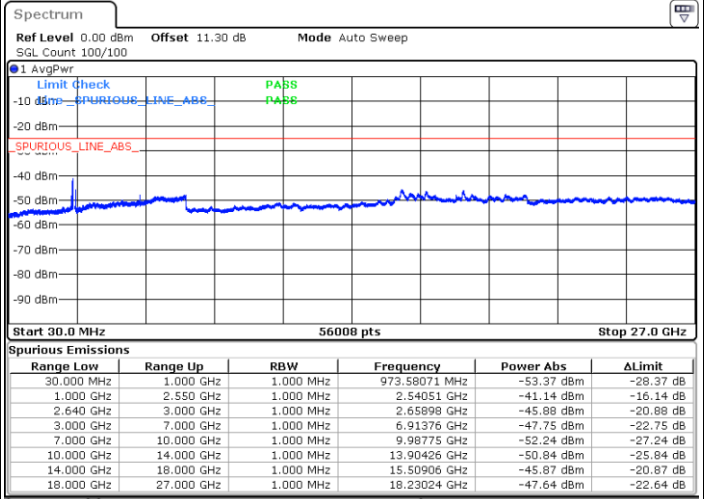
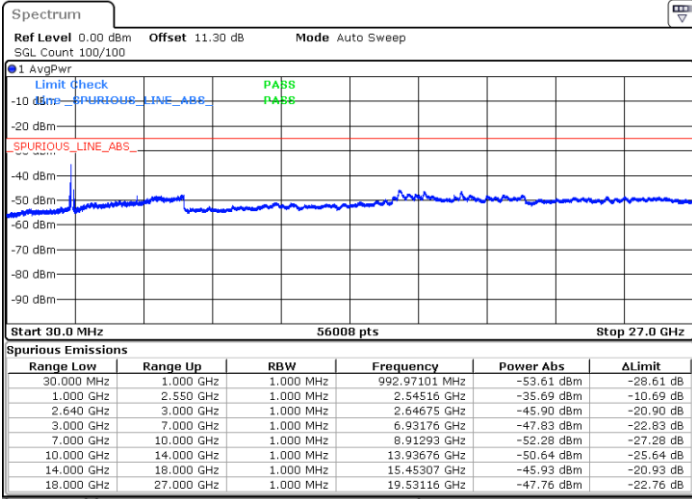




FR1 n38 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

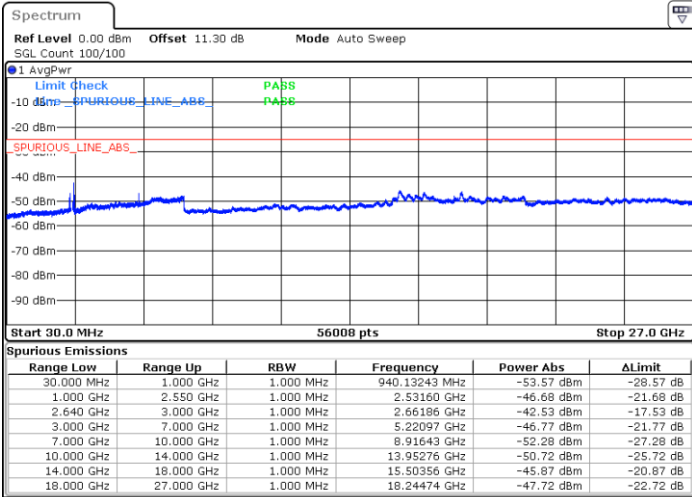
Middle Channel / 1RB



Date: 21.JAN.2021 07:52:36

Date: 21.JAN.2021 06:19:41

Highest Channel / 1RB



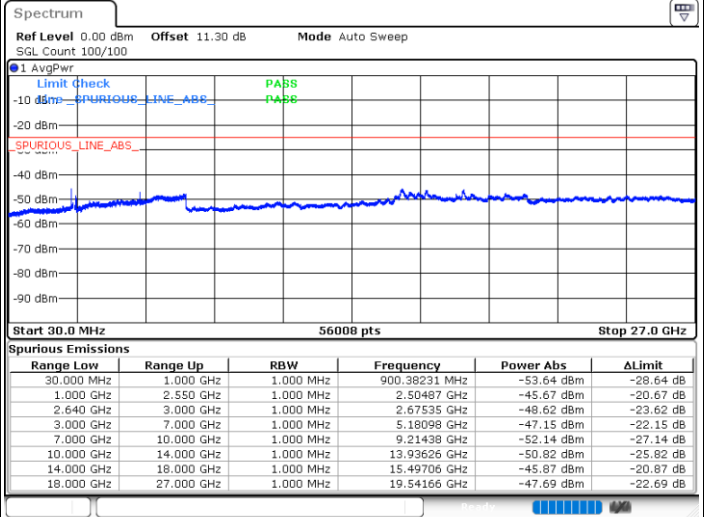
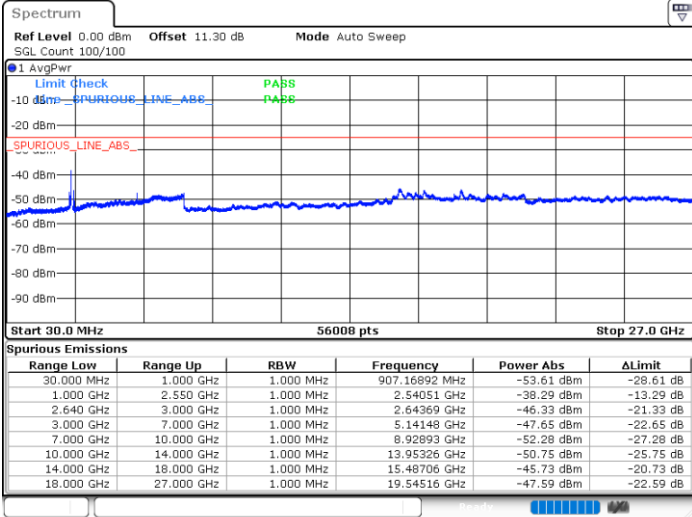
Date: 21.JAN.2021 06:30:04



FR1 n38 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

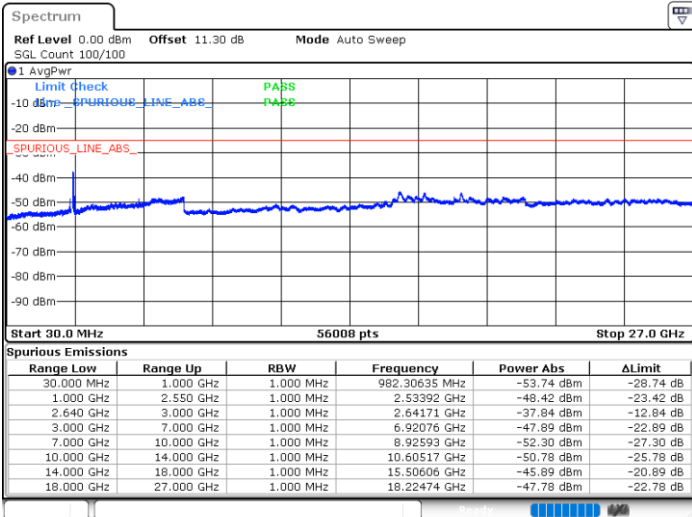
Middle Channel / 1RB



Date: 21.JAN.2021 07:51:38

Date: 21.JAN.2021 06:18:06

Highest Channel / 1RB



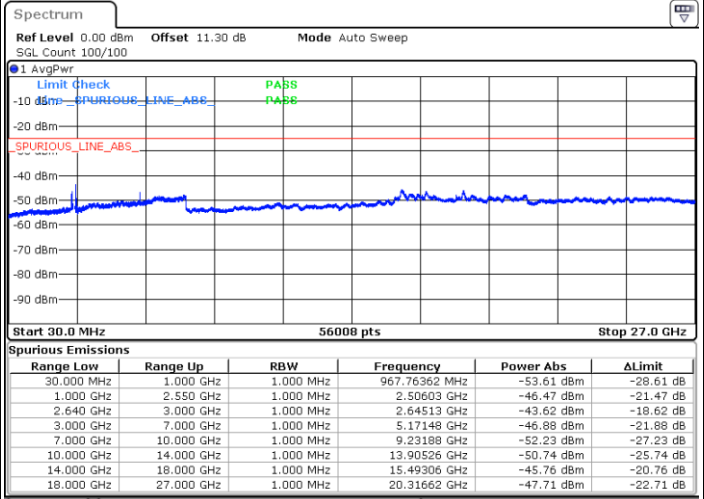
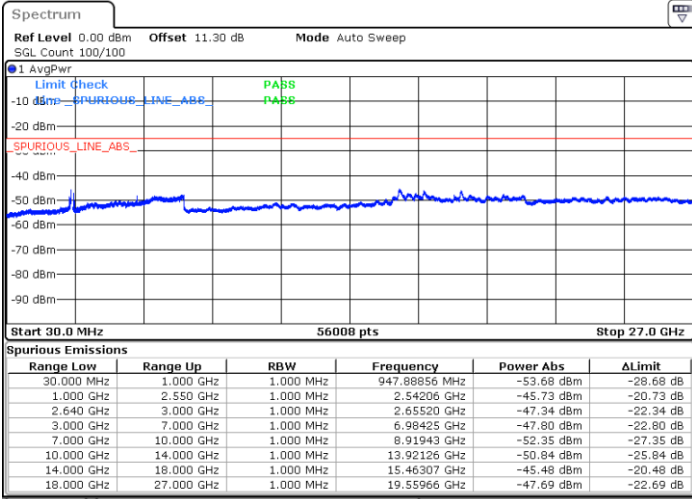
Date: 21.JAN.2021 06:31:01



FR1 n38 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

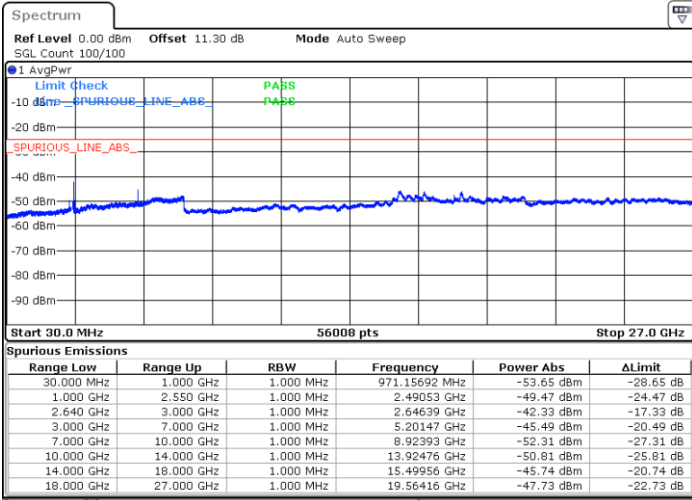
Middle Channel / 1RB



Date: 21.JAN.2021 05:53:13

Date: 21.JAN.2021 05:50:17

Highest Channel / 1RB



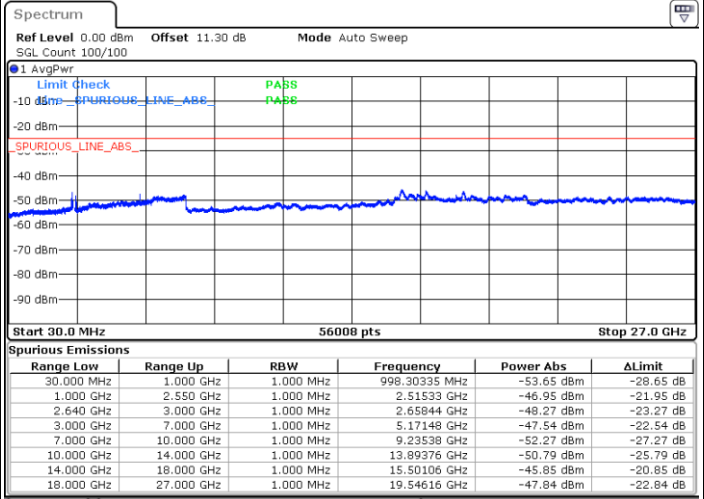
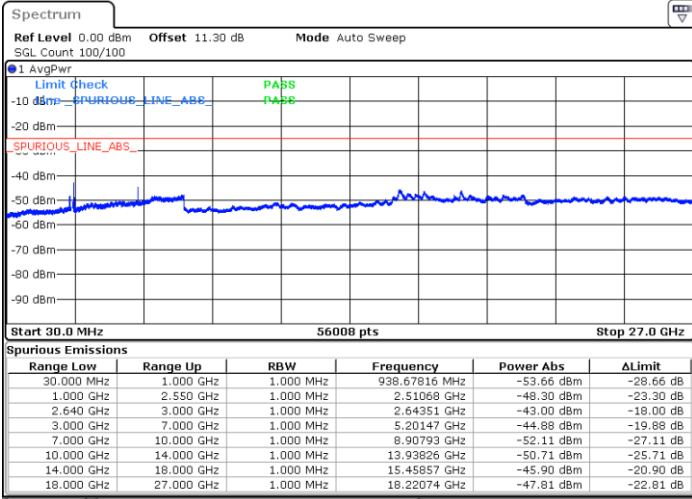
Date: 21.JAN.2021 06:04:54



FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

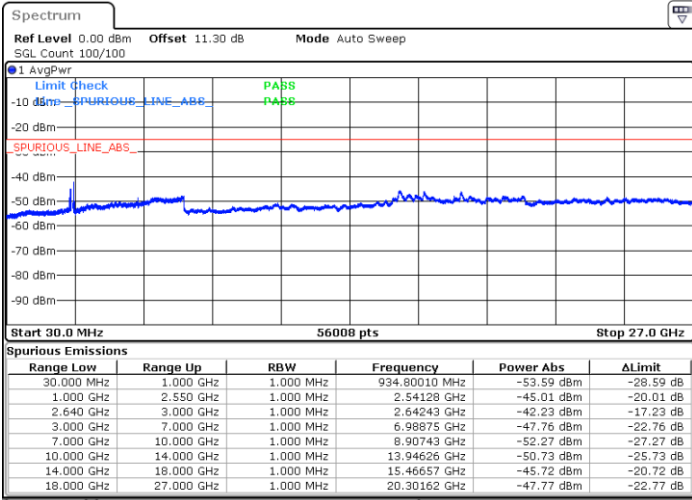
Middle Channel / 1RB



Date: 21.JAN.2021 06:08:31

Date: 21.JAN.2021 05:40:47

Highest Channel / 1RB



Date: 21.JAN.2021 06:09:47



Frequency Stability

Test Conditions		NR n38 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n41 SA-SCS 15K

Peak-to-Average Ratio

Mode	FR1 n41 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	3.8	4.84	5.04	PASS
Middle CH	3.07	3.68	4.78	4.96	
Highest CH	4.67	3.74	4.41	5.22	



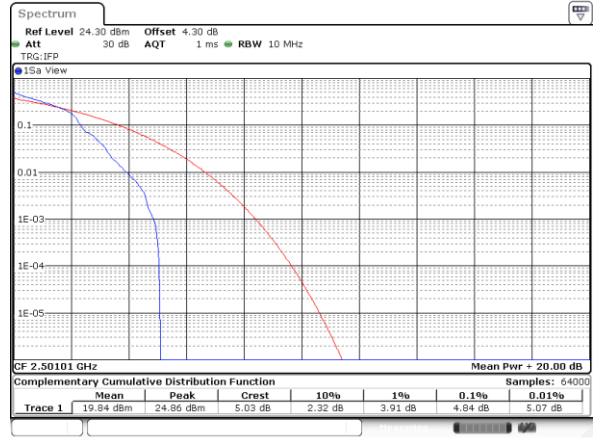
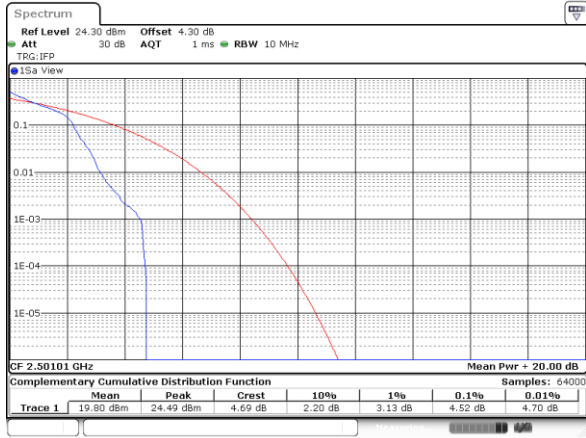
FR1 n41 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

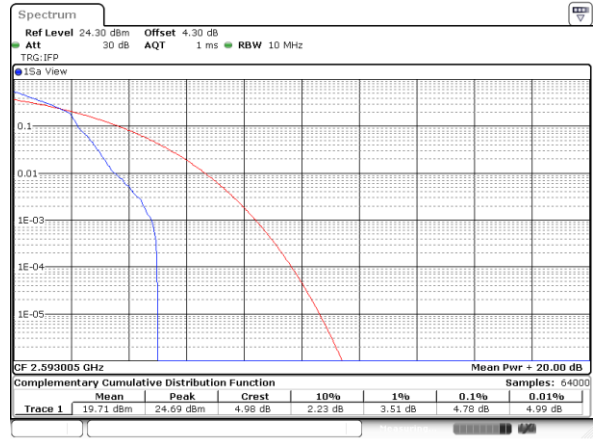
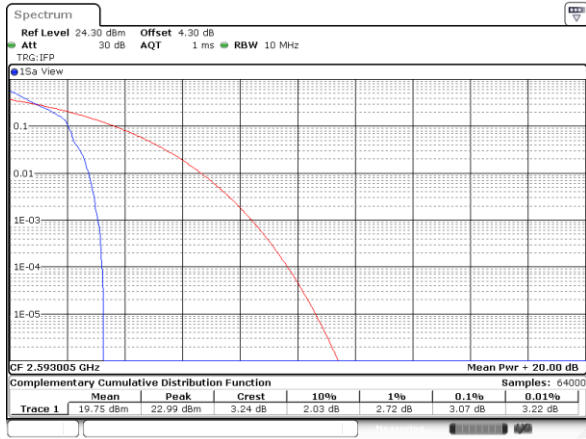


Date: 20_JAN_2021 07:13:00

Date: 20_JAN_2021 07:13:129

Middle Channel / 1 RB

Middle Channel / 1 RB

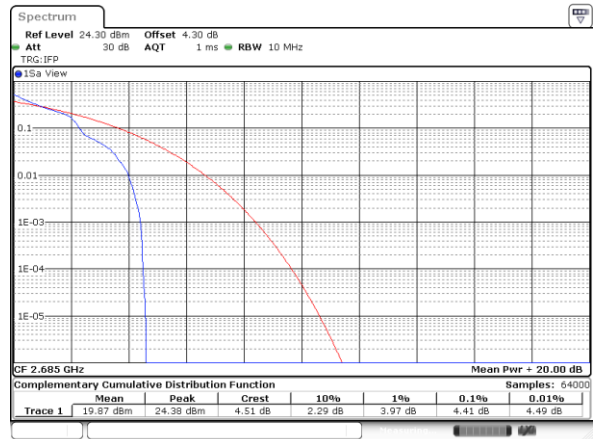
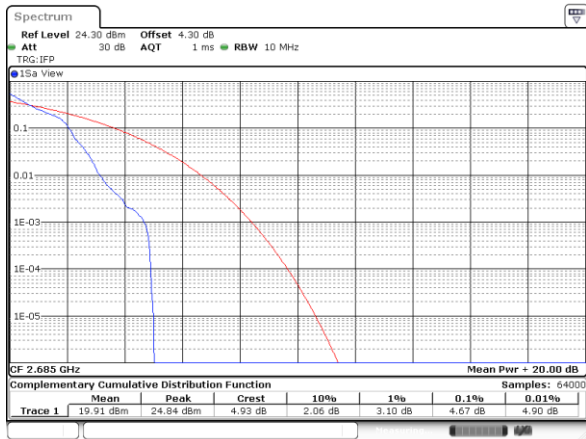


Date: 20_JAN_2021 07:13:00

Date: 20_JAN_2021 07:13:154

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 20_JAN_2021 07:13:14

Date: 20_JAN_2021 07:13:134



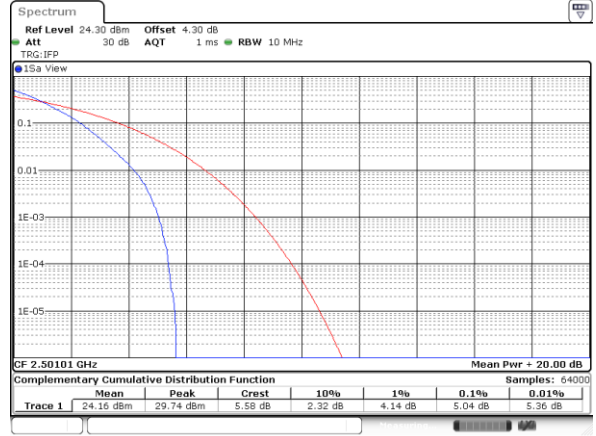
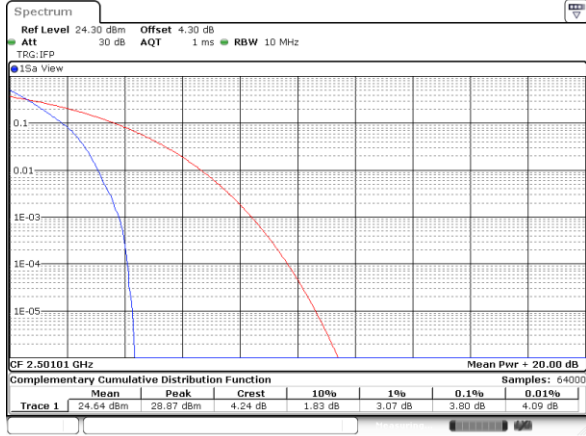
FR1 n41 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

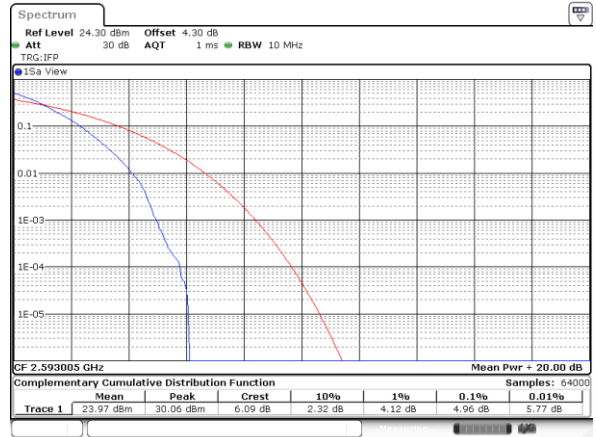
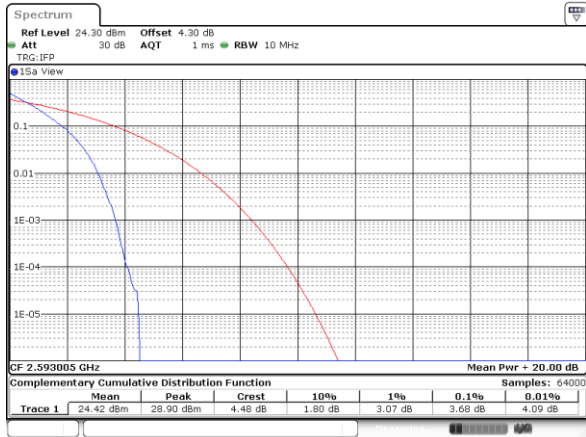


Date: 20_JAN_2021 07:13:129

Date: 20_JAN_2021 07:13:154

Middle Channel / Full RB

Middle Channel / Full RB

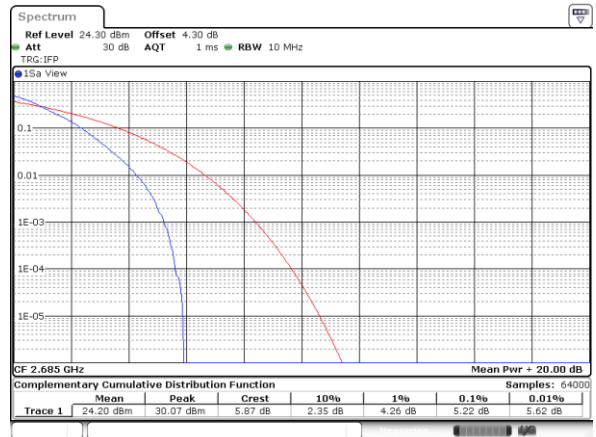
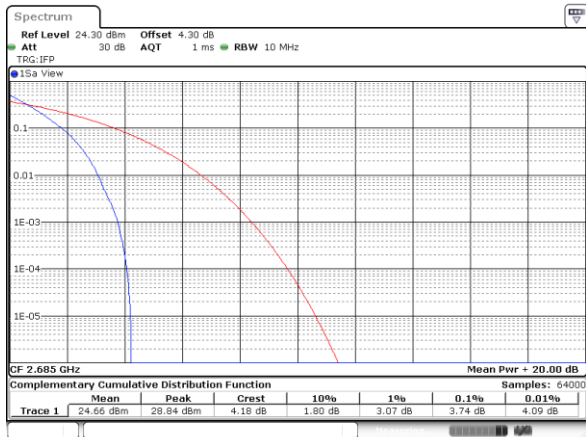


Date: 20_JAN_2021 07:13:133

Date: 20_JAN_2021 07:13:109

Highest Channel / Full RB

Highest Channel / Full RB



Date: 20_JAN_2021 07:13:136

Date: 20_JAN_2021 07:13:103



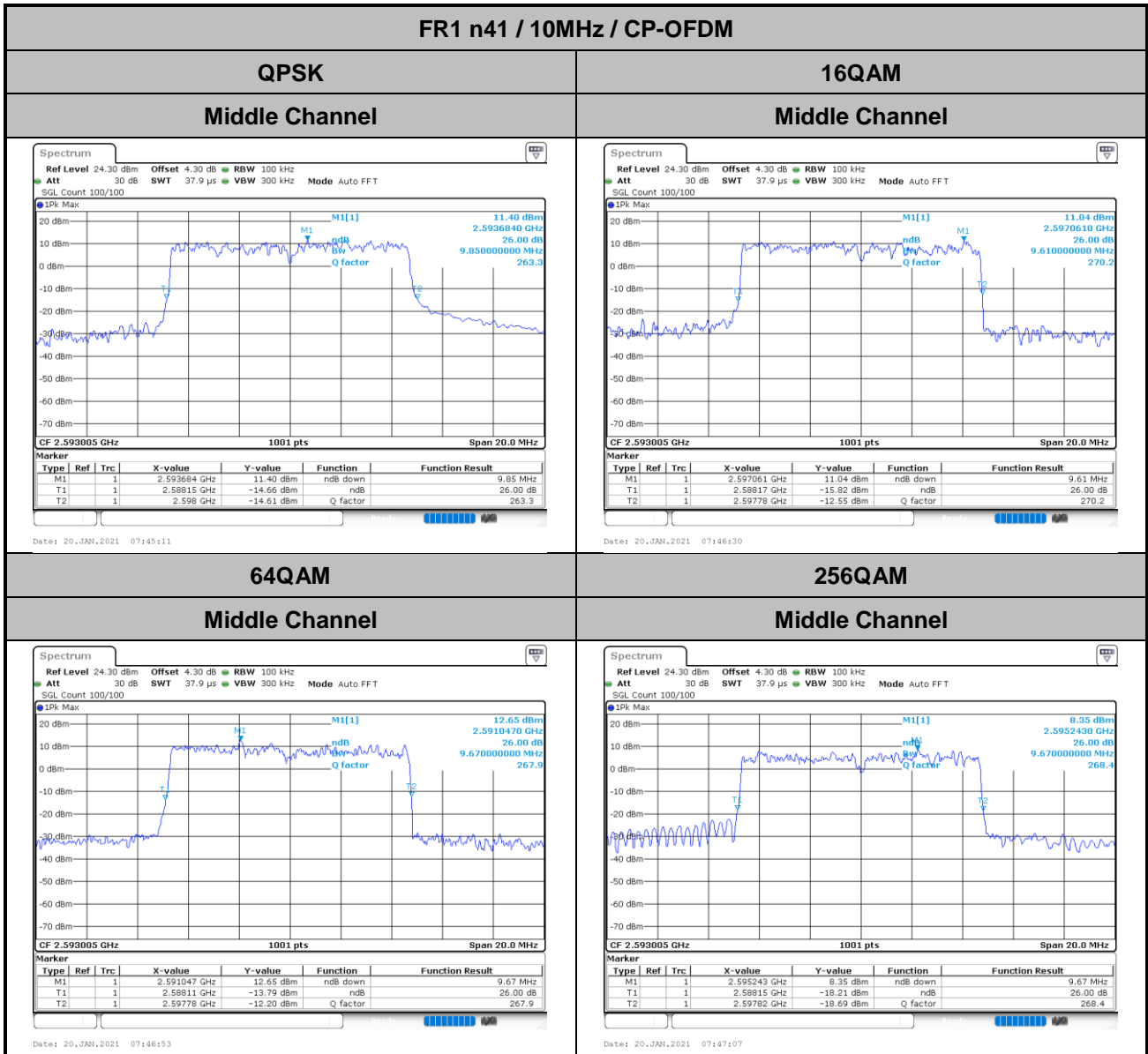
26dB Bandwidth

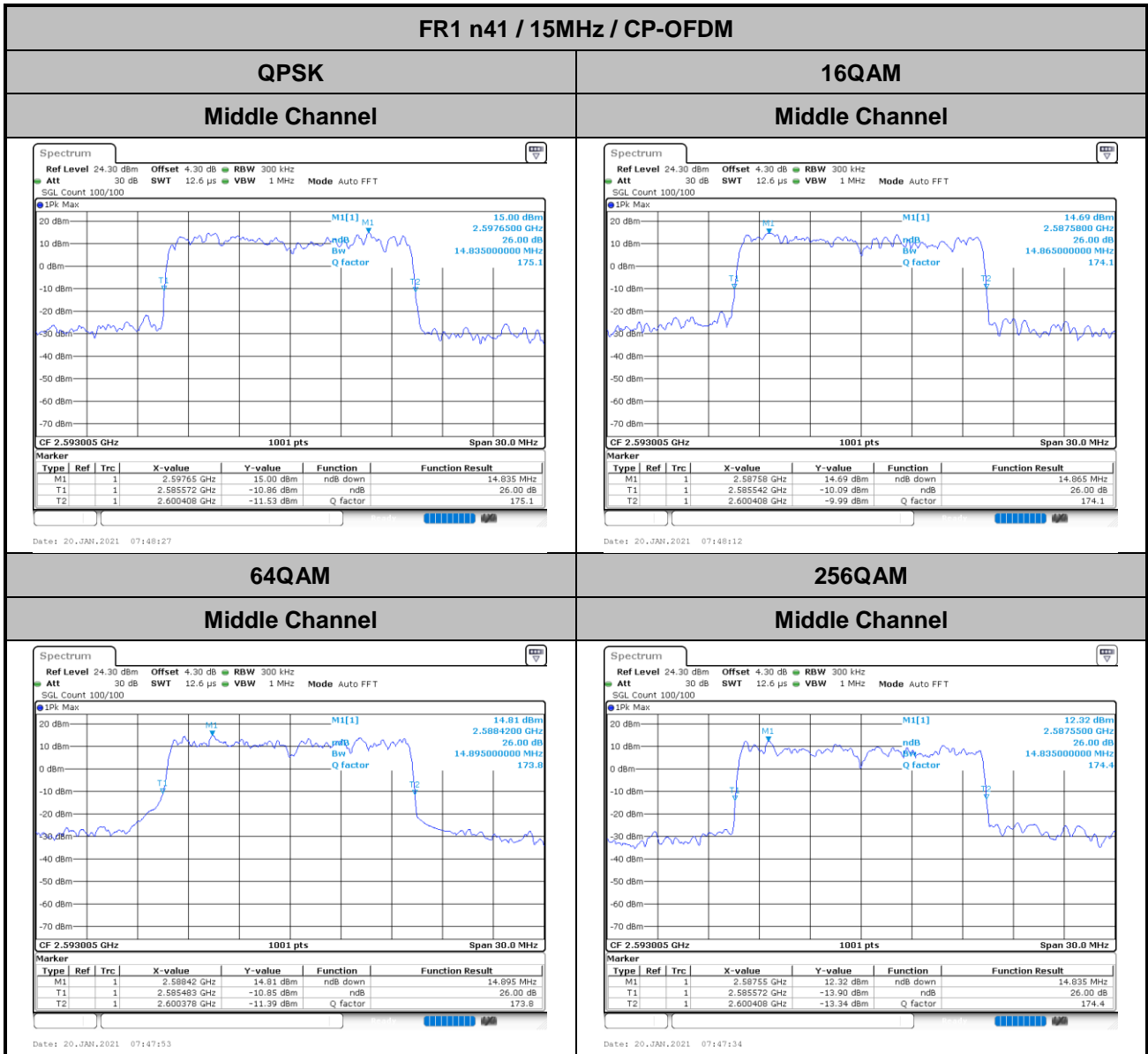
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.85	9.61	9.67	9.67				

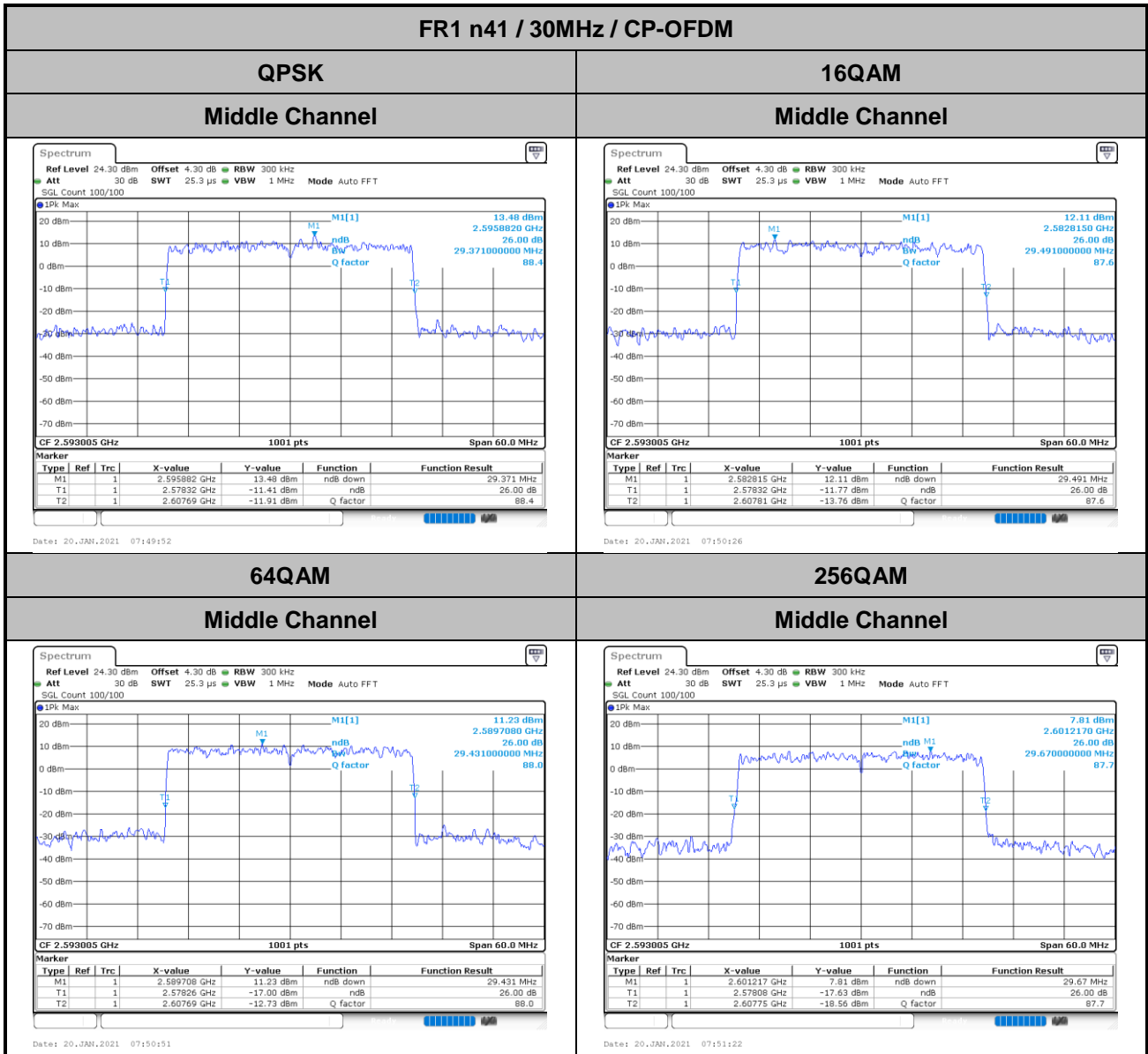
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.83	14.86	14.89	14.83				

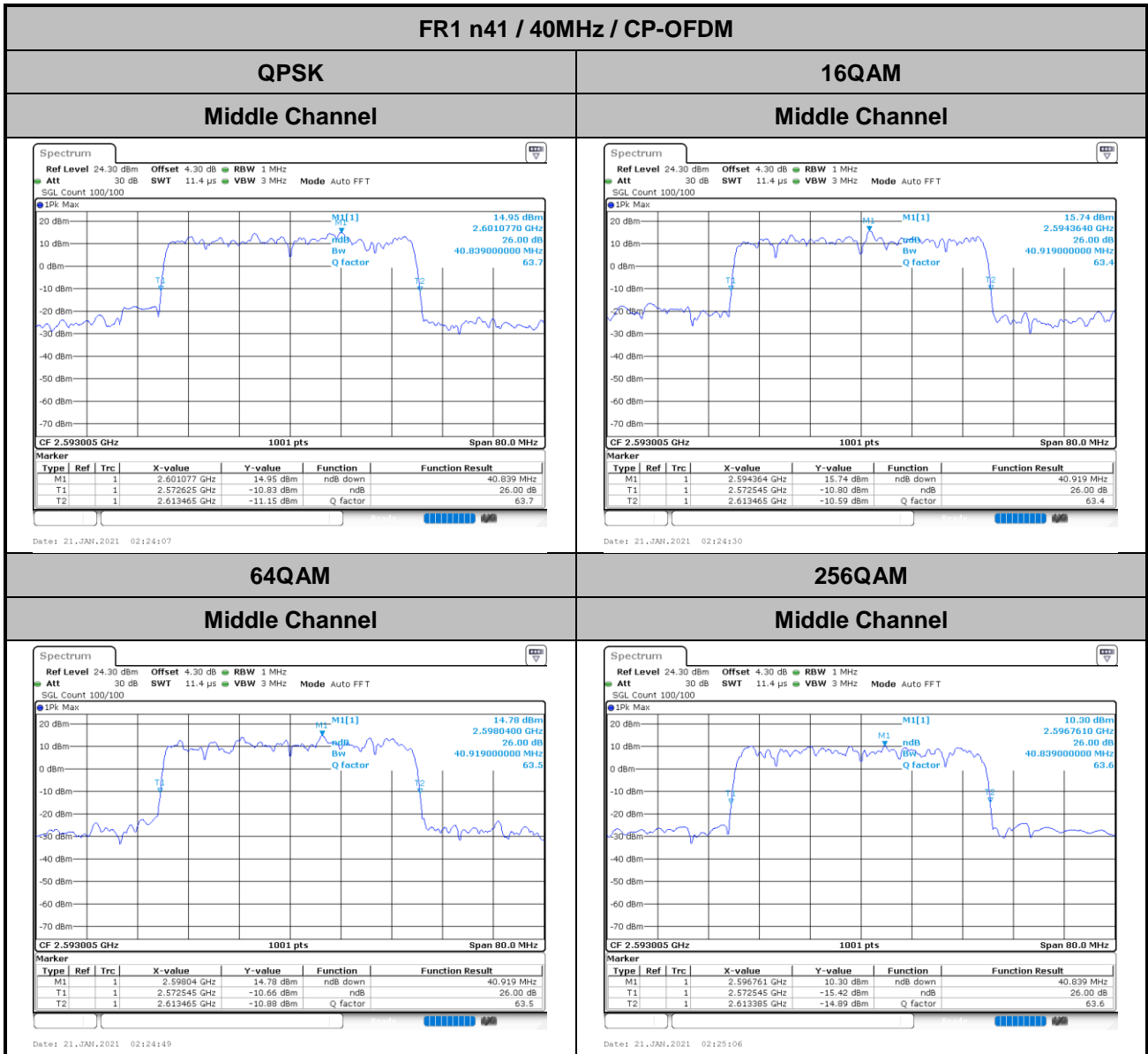
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	30MHz	30MHz	30MHz	30MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	29.37	29.49	29.43	29.67				

Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	40.83	40.91	40.91	40.83				











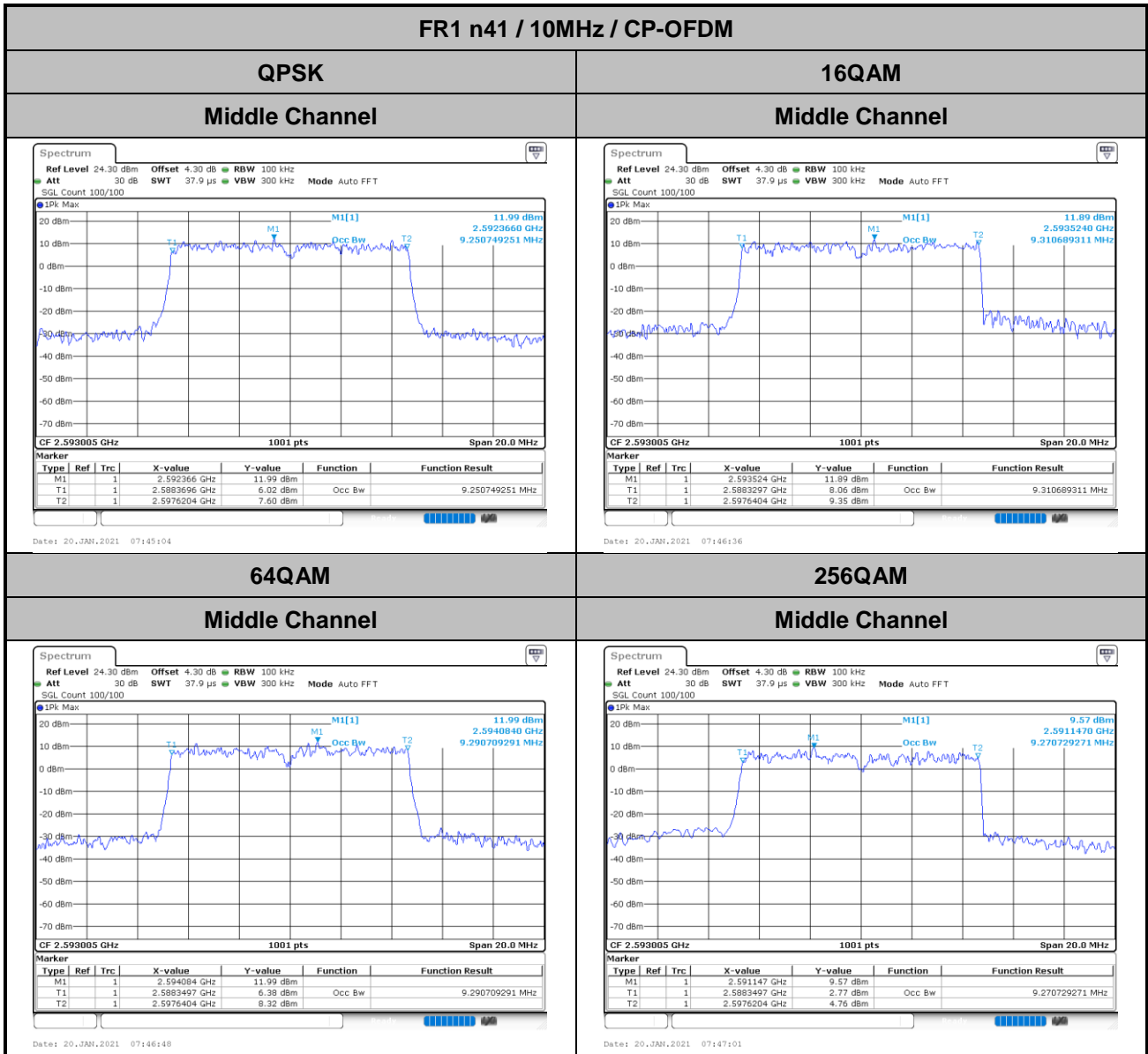
Occupied Bandwidth

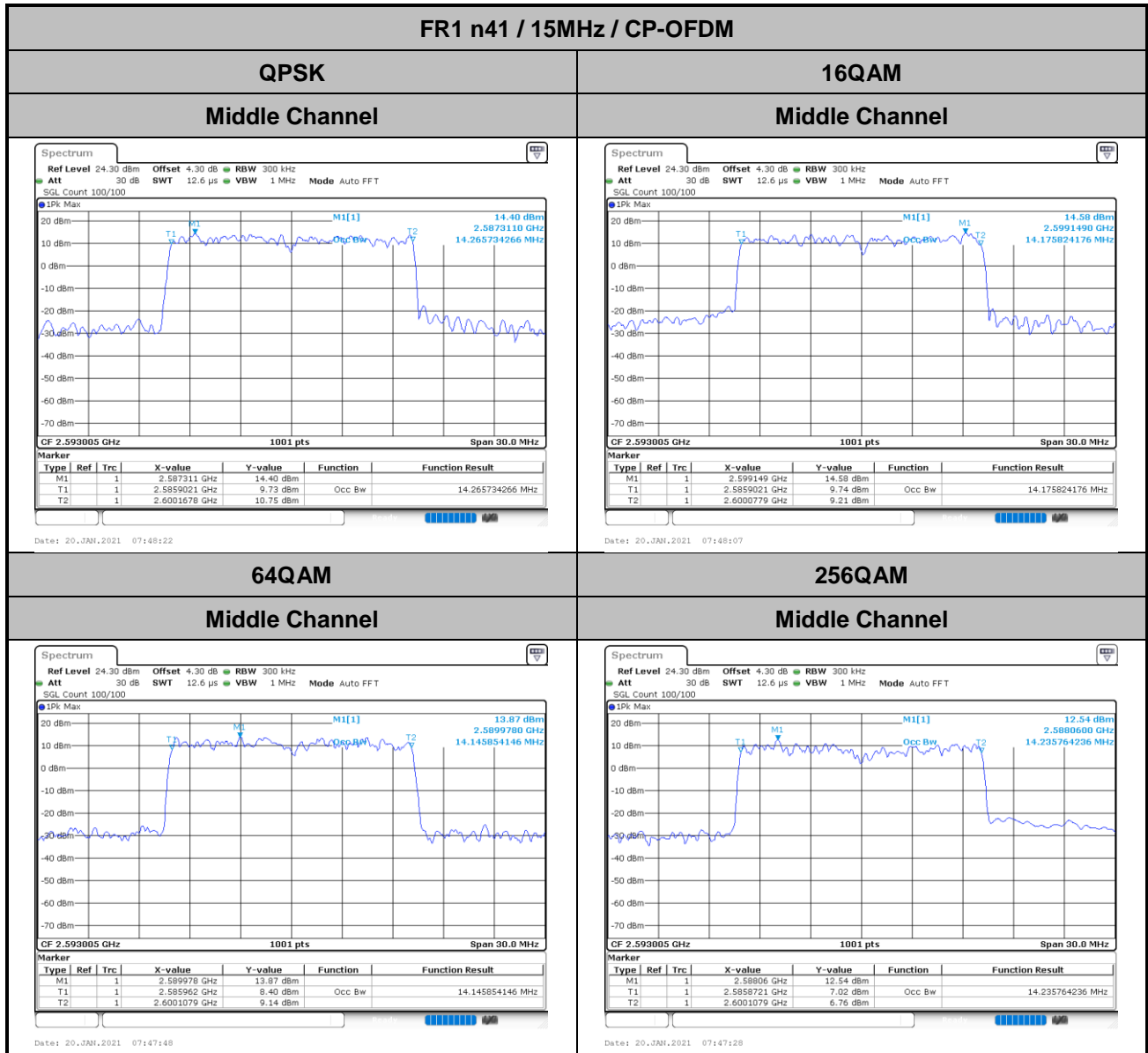
Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.25	9.31	9.29	9.27				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.26	14.17	14.14	14.23				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	30MHz	30MHz	30MHz	30MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	28.59	28.47	28.53	28.47				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	38.6	38.84	38.44	38.76				







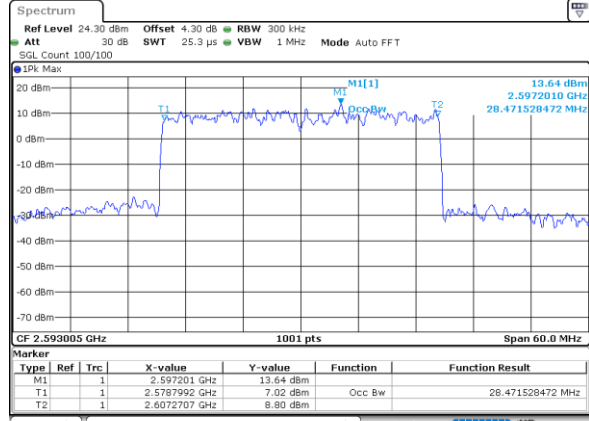
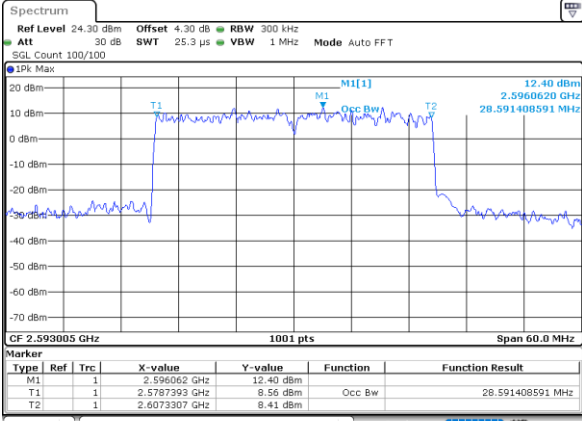
FR1 n41 / 30MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 20_JAN_2021 07:149:43

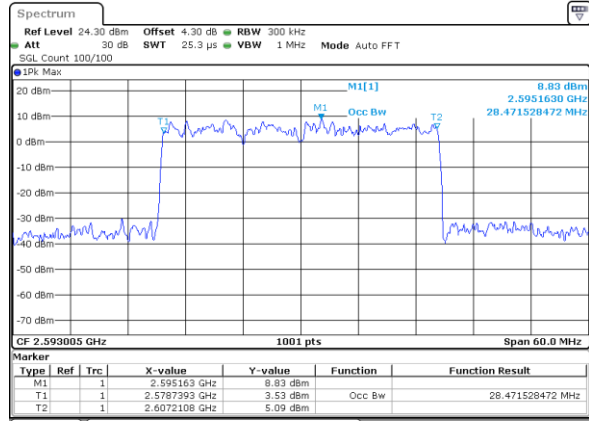
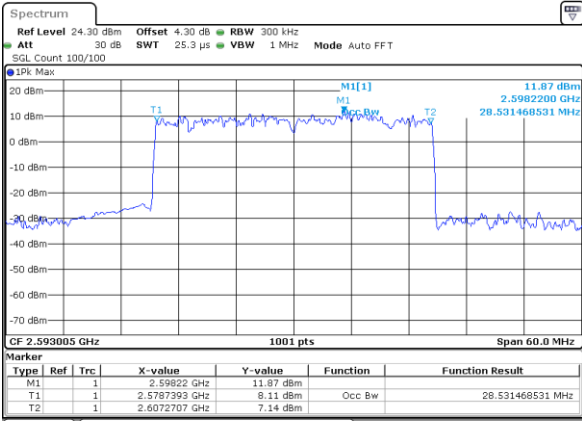
Date: 20_JAN_2021 07:50:16

64QAM

256QAM

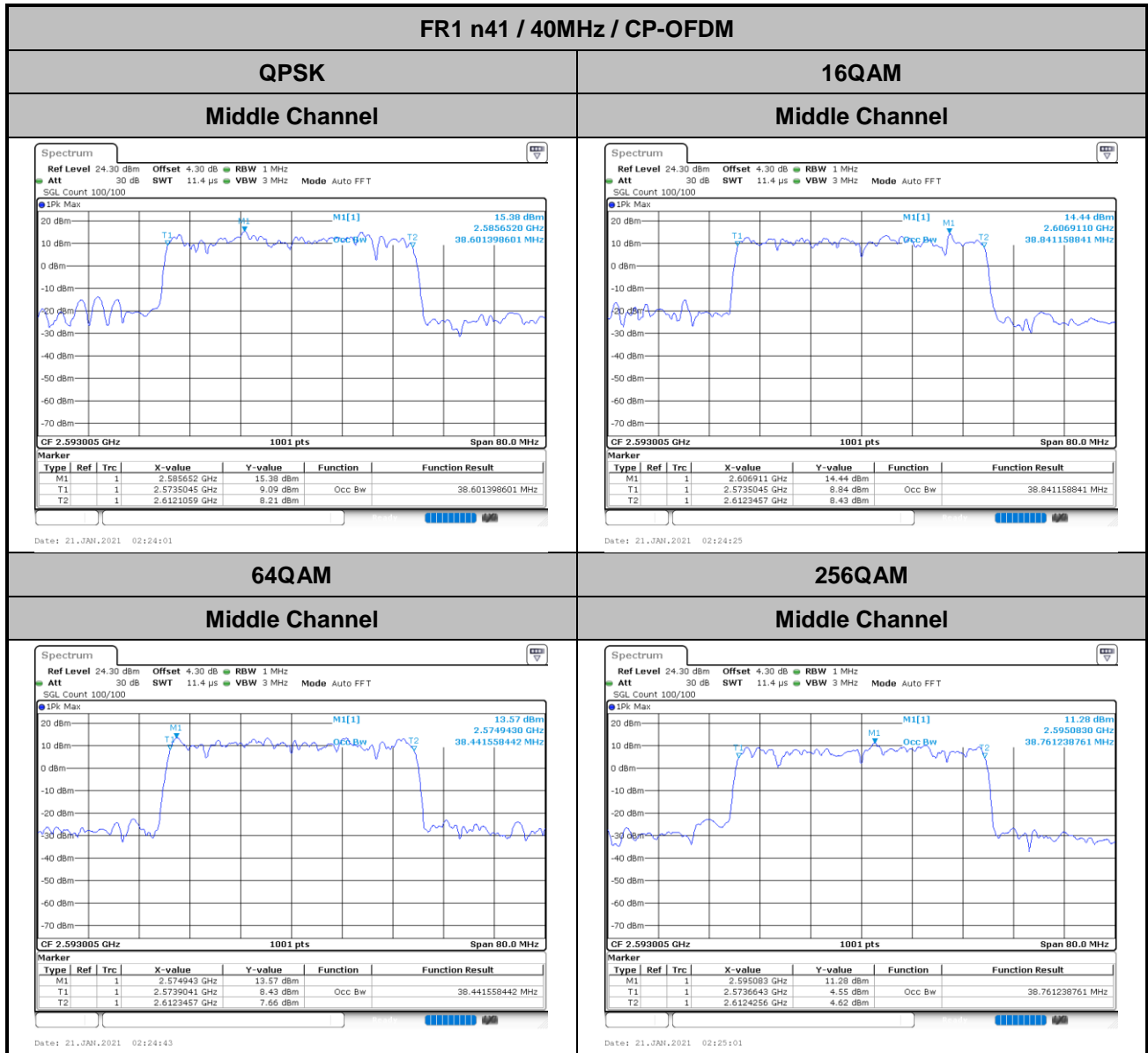
Middle Channel

Middle Channel



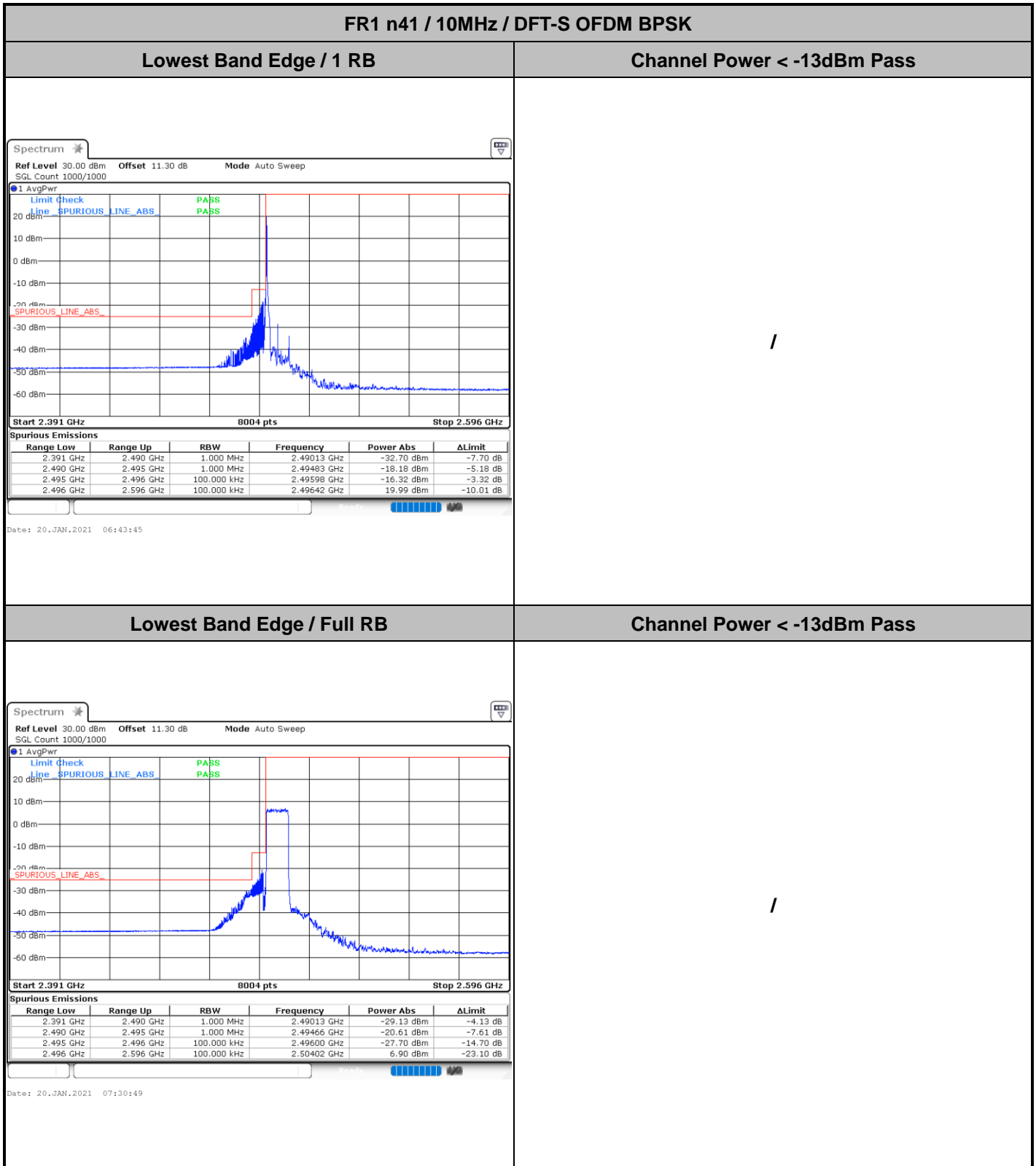
Date: 20_JAN_2021 07:50:43

Date: 20_JAN_2021 07:51:14





Conducted Band Edge

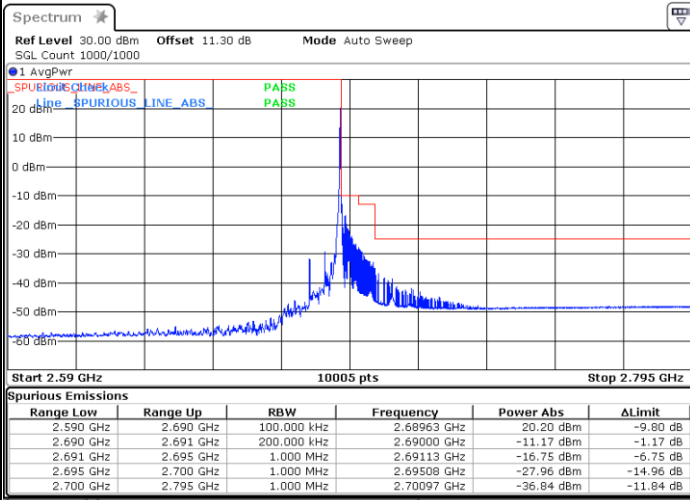




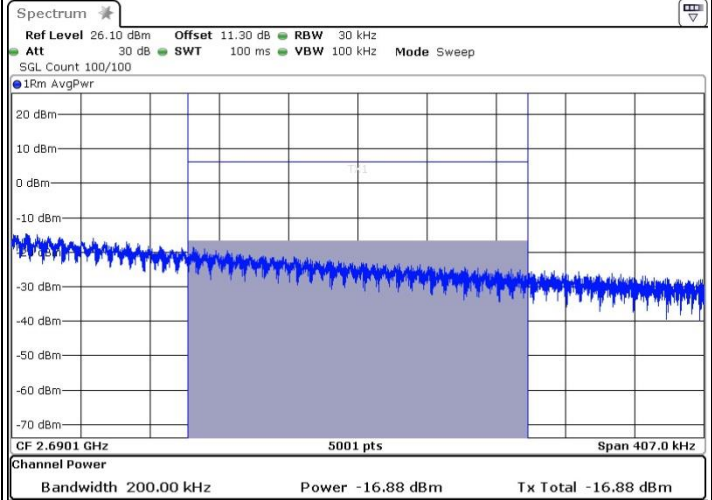
FR1 n41 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



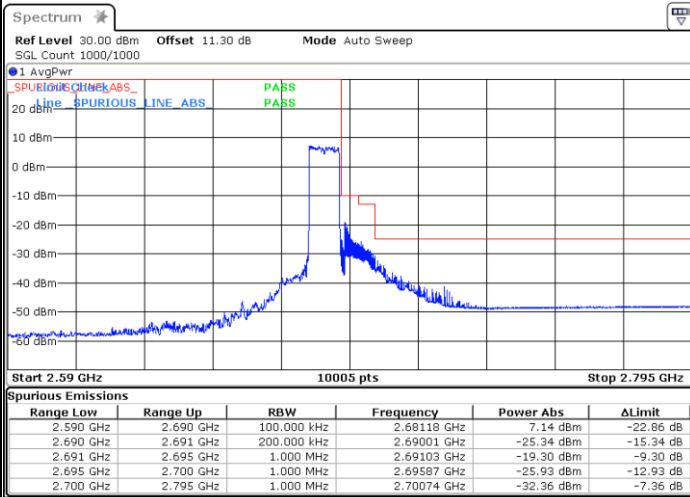
Date: 20.JAN.2021 05:34:25



Date: 20.JAN.2021 06:10:16

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



Date: 20.JAN.2021 05:49:54

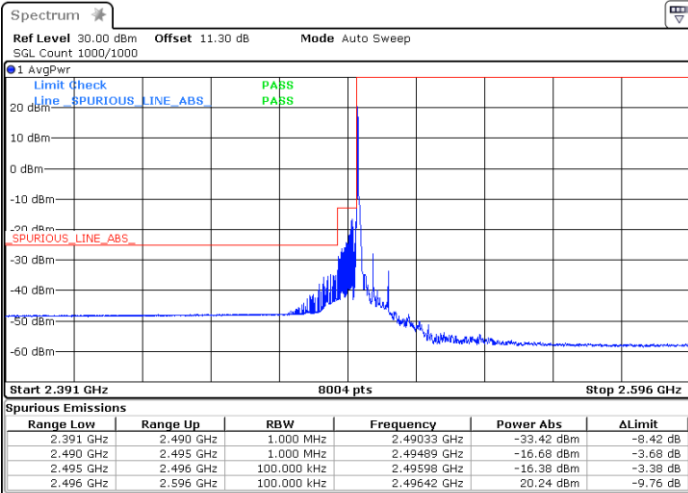
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FR1 n41 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

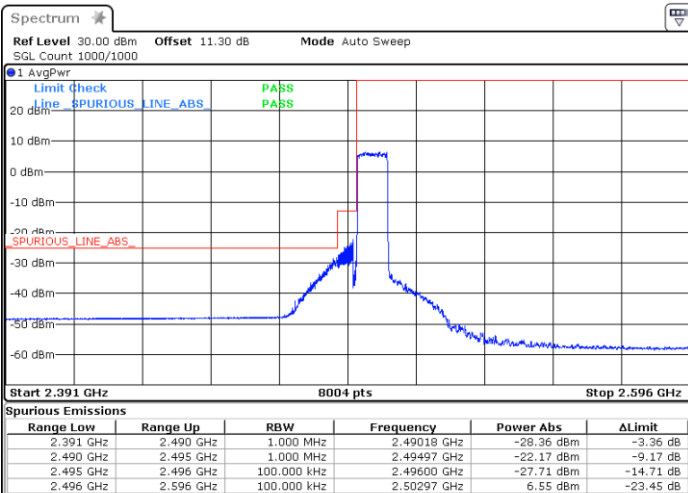
Channel Power < -13dBm Pass



Date: 20.JAN.2021 06:39:51

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



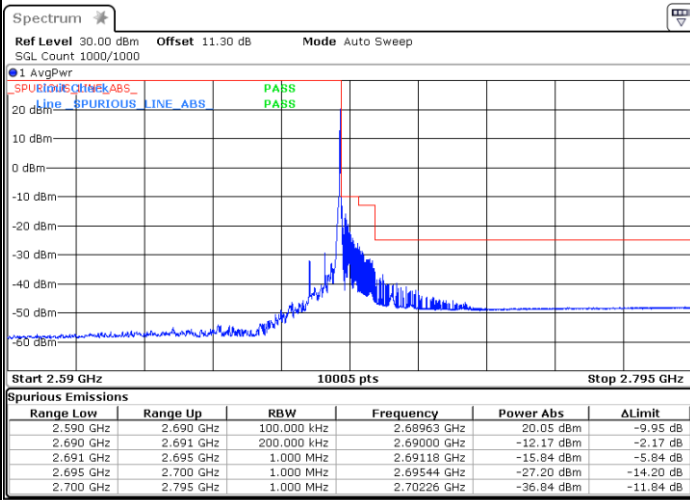
Date: 20.JAN.2021 07:31:51



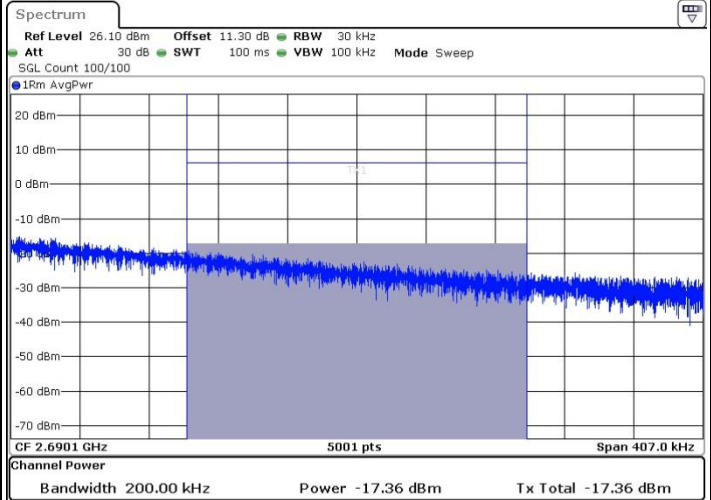
FR1 n41 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



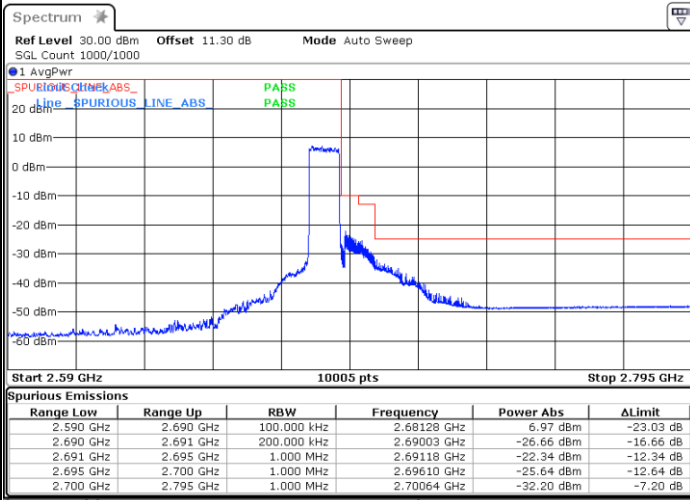
Date: 20.JAN.2021 05:39:30



Date: 20.JAN.2021 06:10:40

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



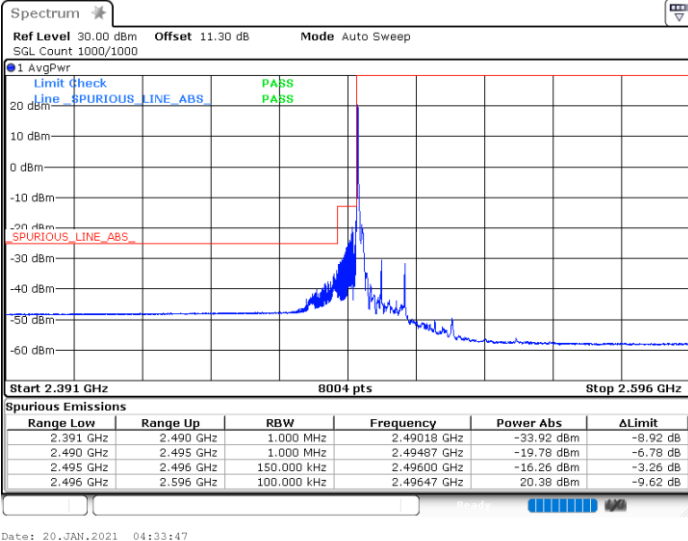
Date: 20.JAN.2021 05:47:37



FR1 n41 / 15MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

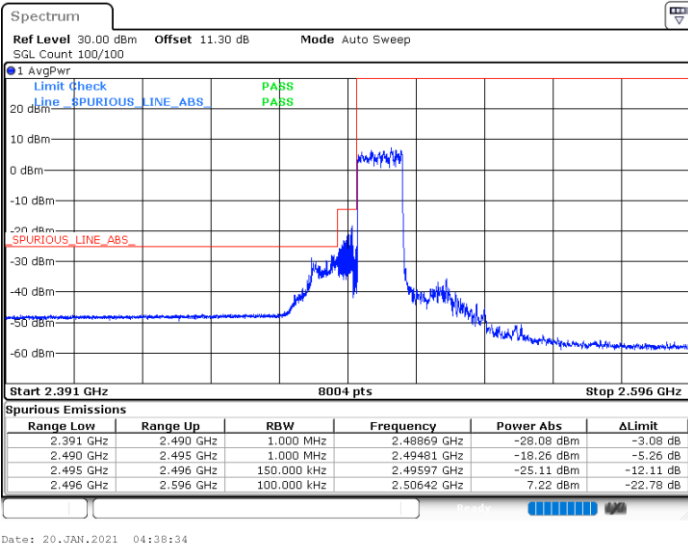
Channel Power < -13dBm Pass



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Lowest Band Edge / Full RB

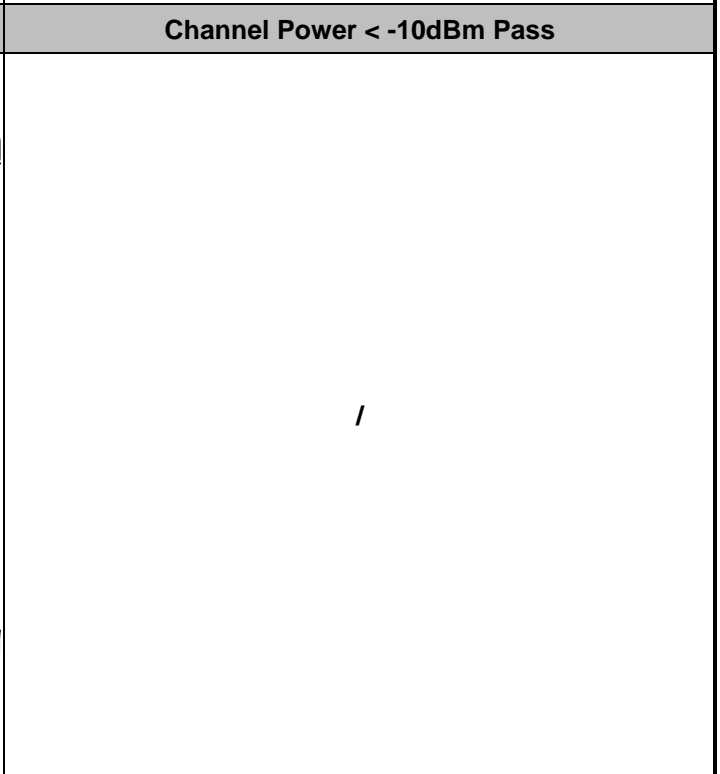
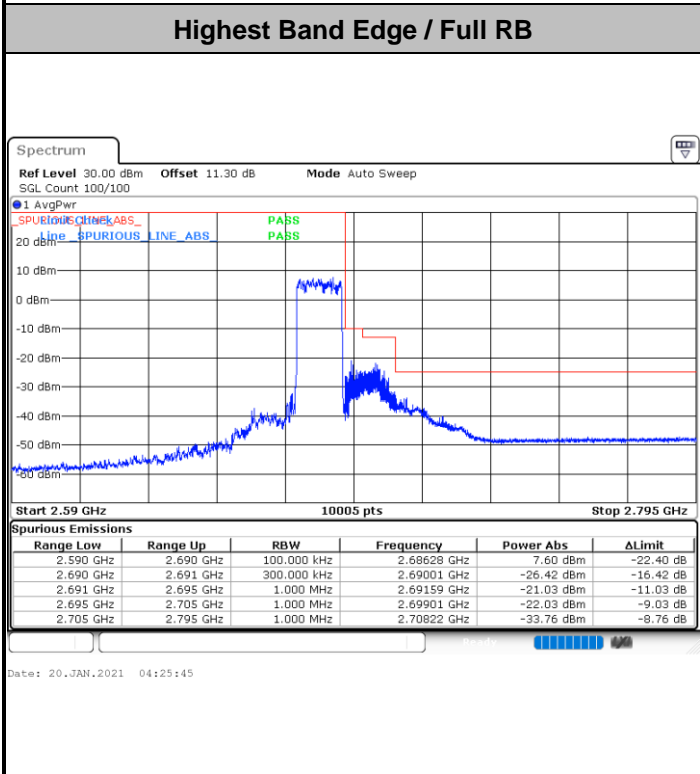
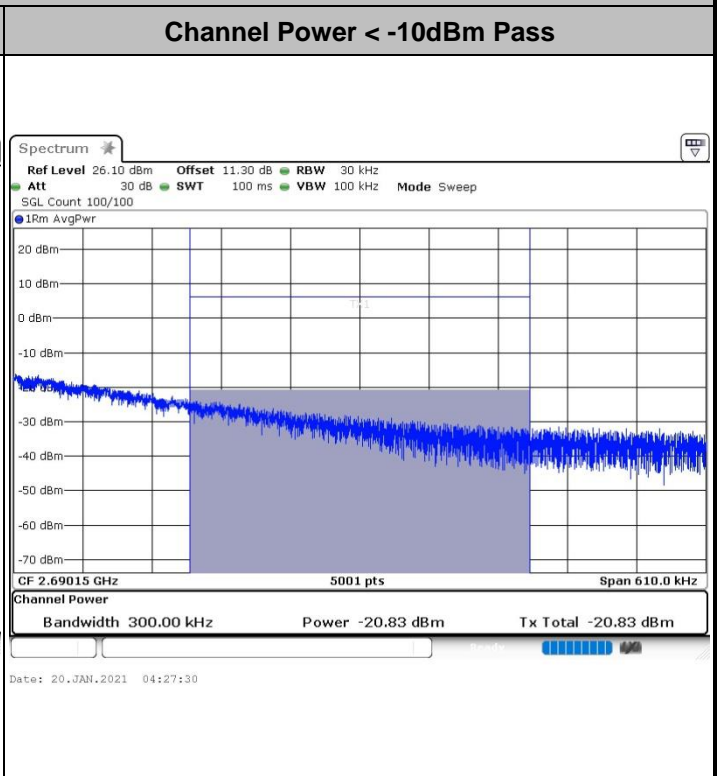
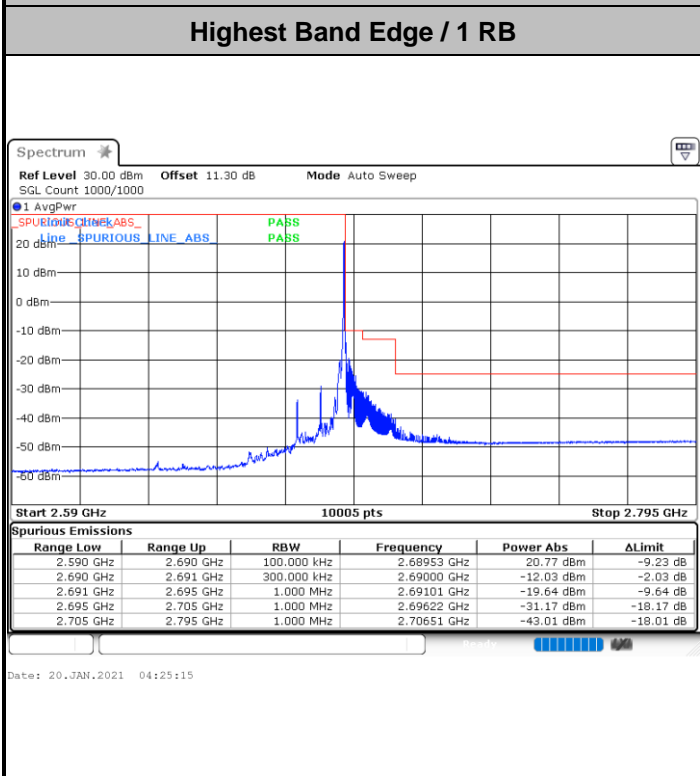
Channel Power < -13dBm Pass



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FR1 n41 / 15MHz / DFT-S OFDM BPSK

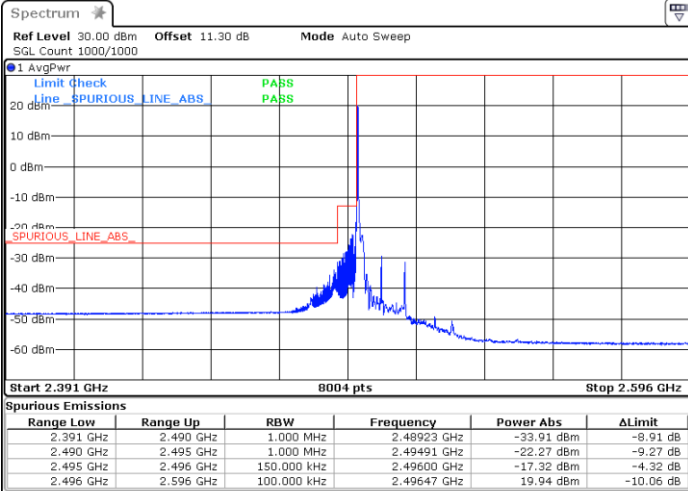




FR1 n41 / 15MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

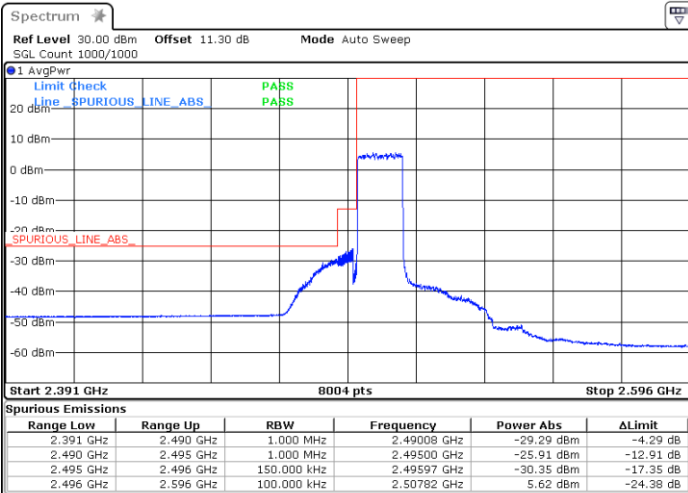
Channel Power < -13dBm Pass



Date: 20.JAN.2021 04:35:32

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



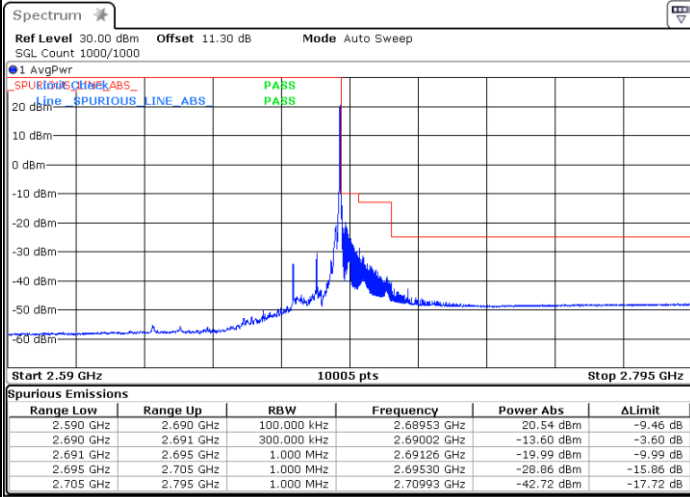
Date: 20.JAN.2021 04:38:13



FR1 n41 / 15MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

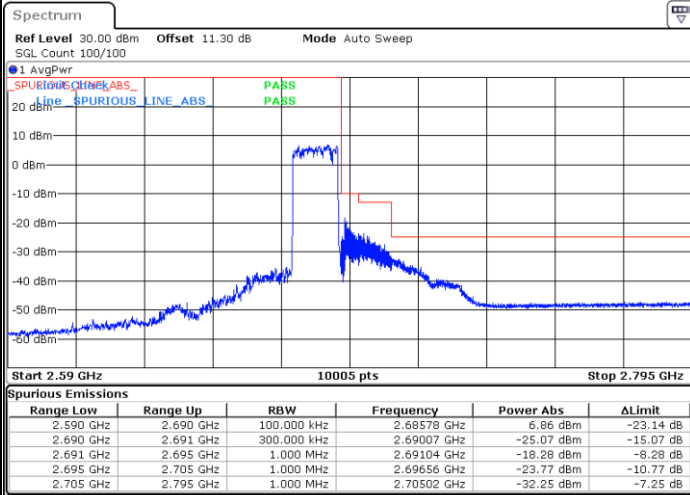
Channel Power < -13dBm Pass



Date: 20.JAN.2021 04:17:04

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



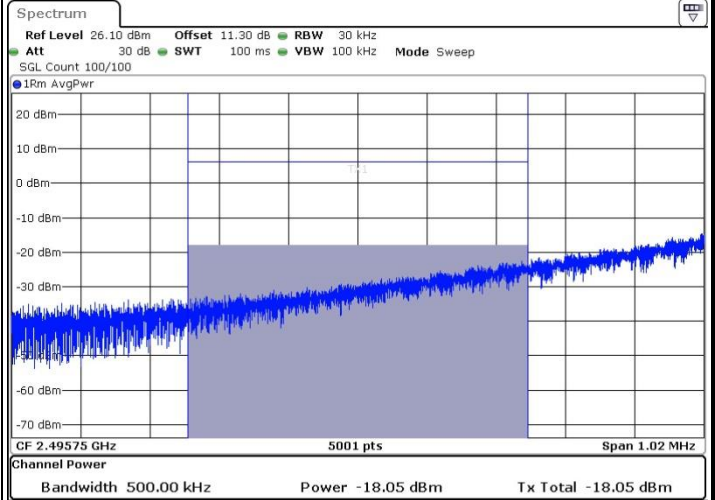
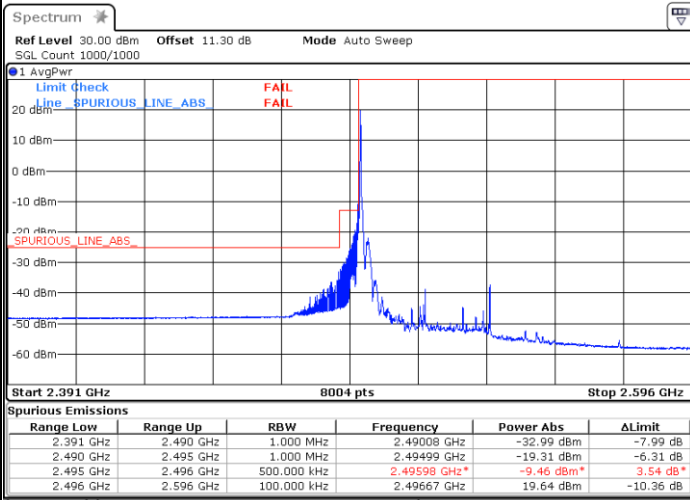
Date: 20.JAN.2021 04:26:06



FR1 n41 / 40MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

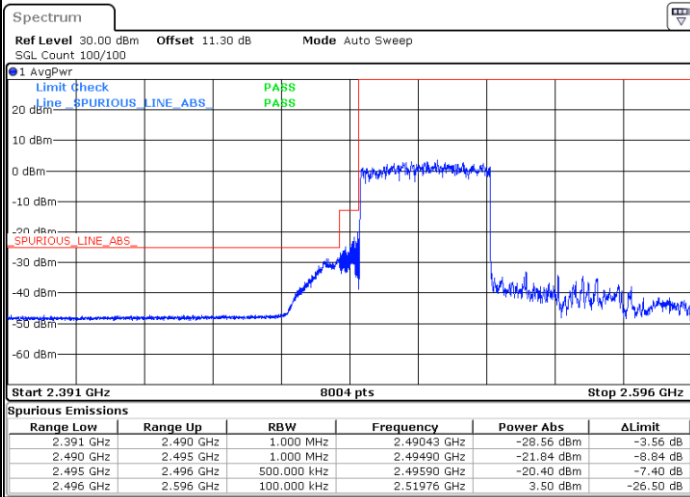


Date: 20.JAN.2021 03:20:07

Date: 20.JAN.2021 03:23:47

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



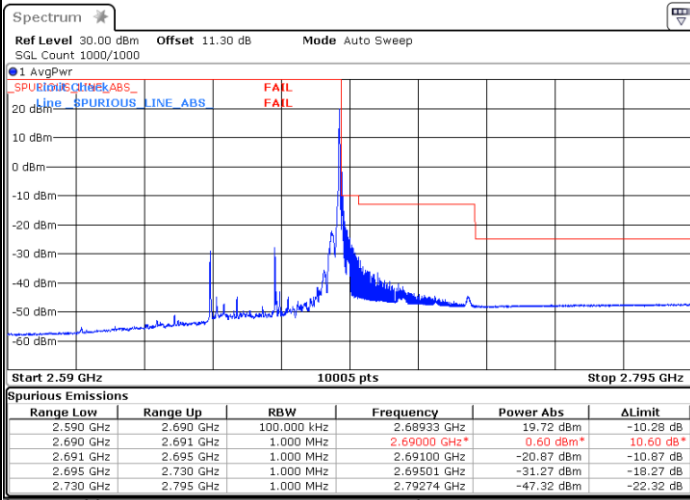
Date: 20.JAN.2021 03:25:59



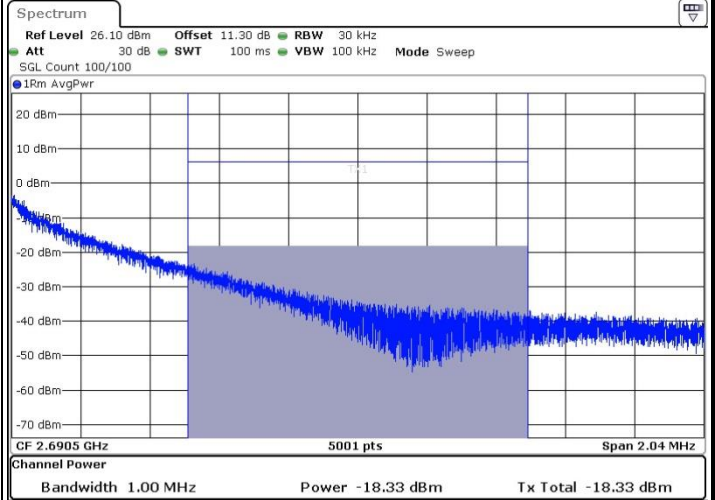
FR1 n41 / 40MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



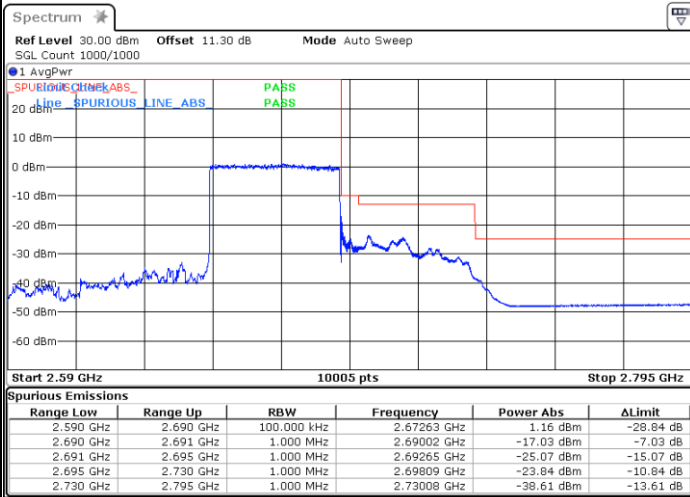
Date: 10.FEB.2021 22:50:18



Date: 10.FEB.2021 22:54:02

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



Date: 10.FEB.2021 22:46:41

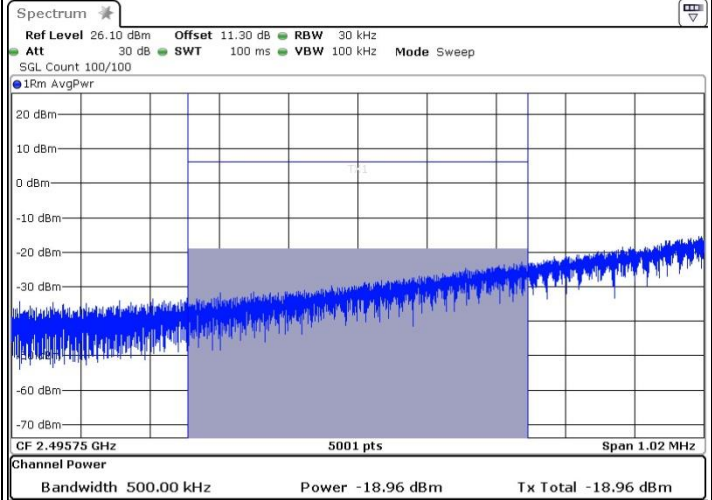
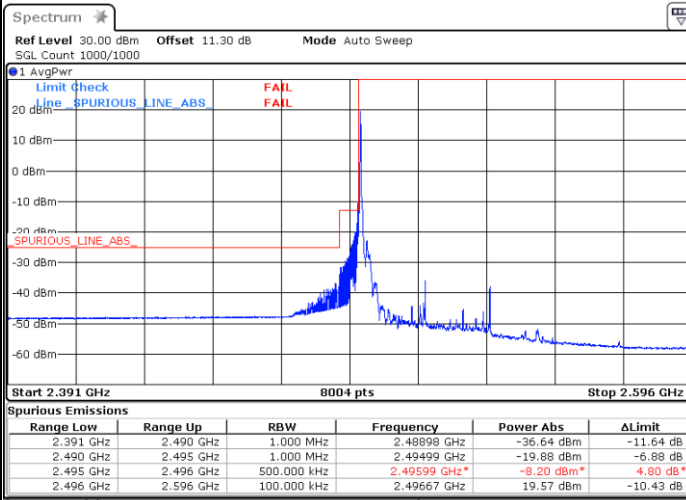
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FR1 n41 / 40MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

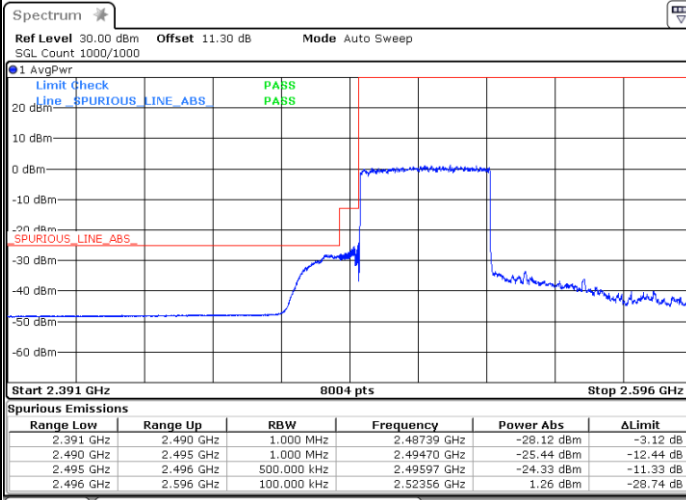


Date: 20.JAN.2021 03:22:29

Date: 20.JAN.2021 03:23:26

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



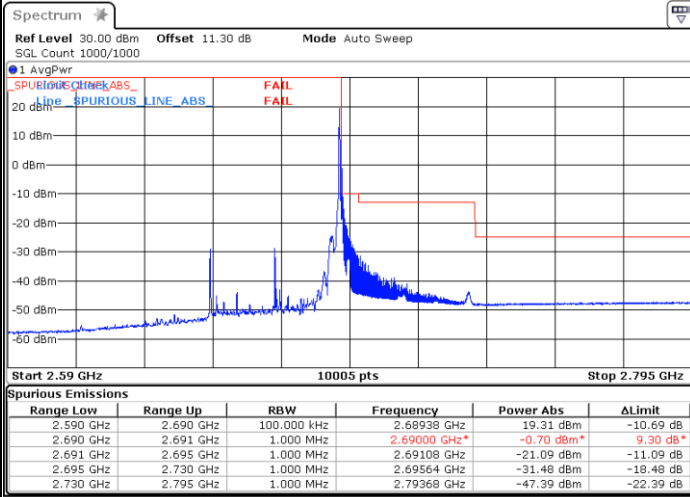
Date: 20.JAN.2021 03:28:49



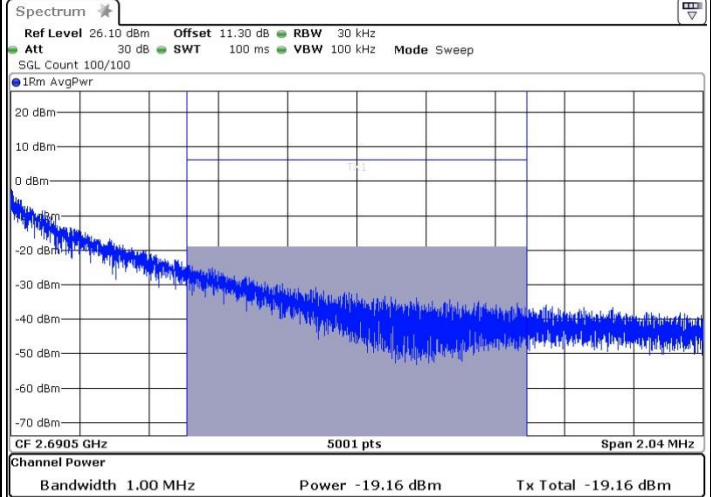
FR1 n41 / 40MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



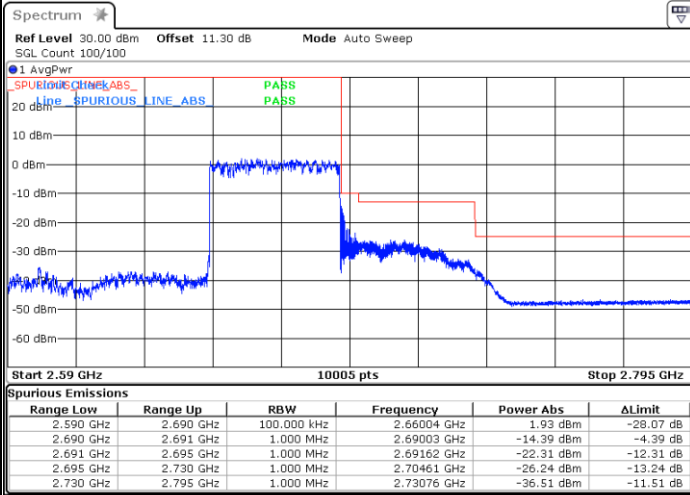
Date: 10.FEB.2021 22:53:05



Date: 10.FEB.2021 22:53:38

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



Date: 10.FEB.2021 22:42:13

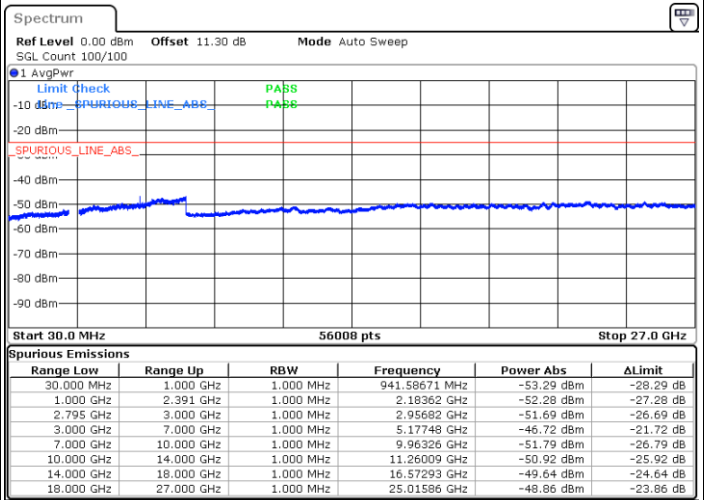
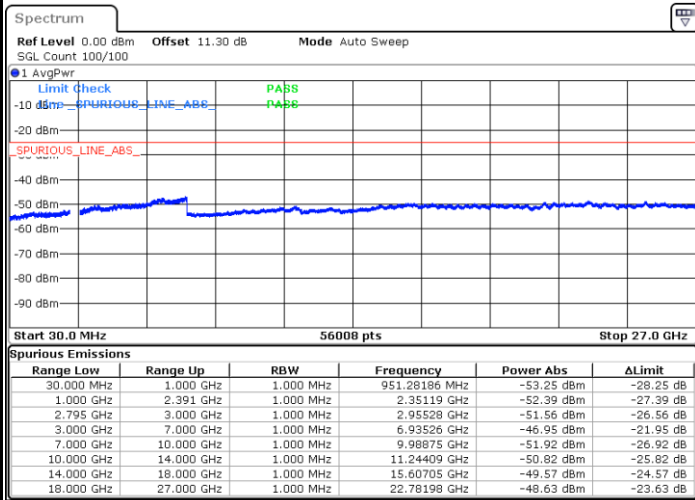


Conducted Spurious Emission

FR1 n41 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

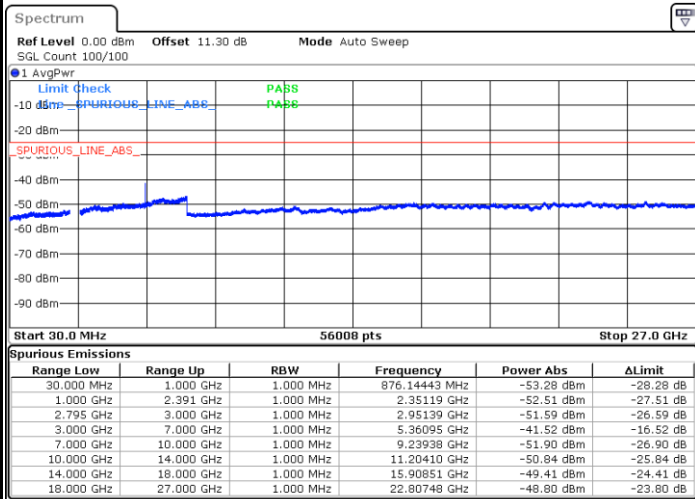
Middle Channel / 1RB



Date: 20.JAN.2021 05:03:29

Date: 20.JAN.2021 05:08:17

Highest Channel / 1RB



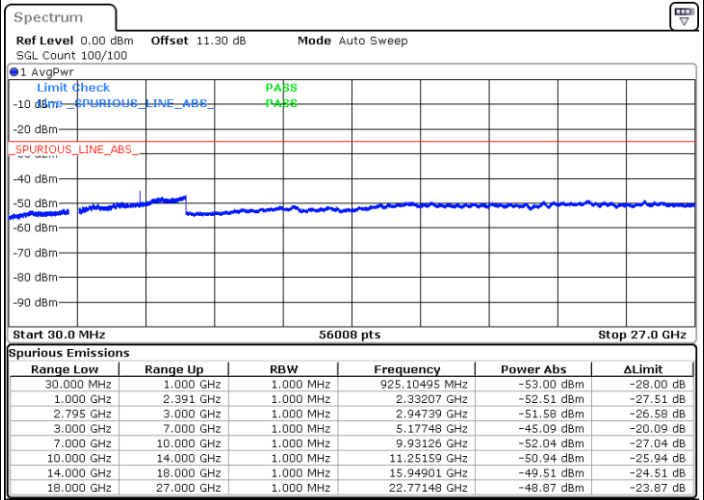
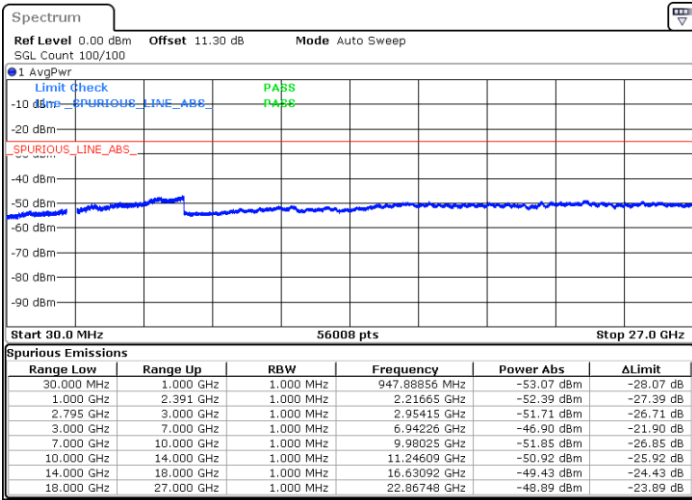
Date: 20.JAN.2021 05:15:29



FR1 n41 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

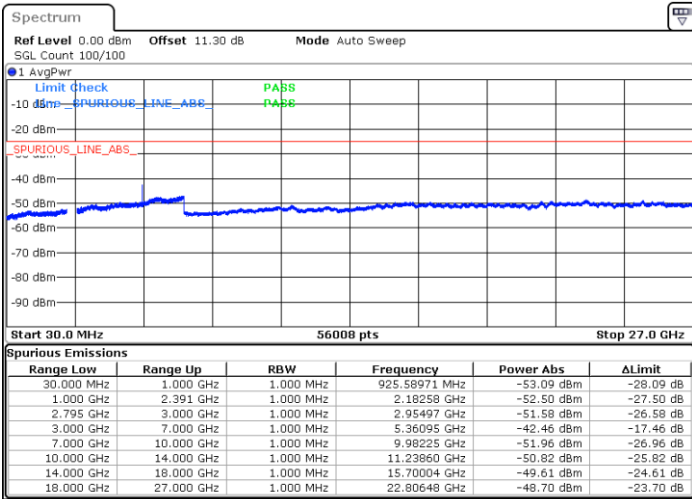
Middle Channel / 1RB



Date: 20.JAN.2021 05:01:32

Date: 20.JAN.2021 05:09:56

Highest Channel / 1RB



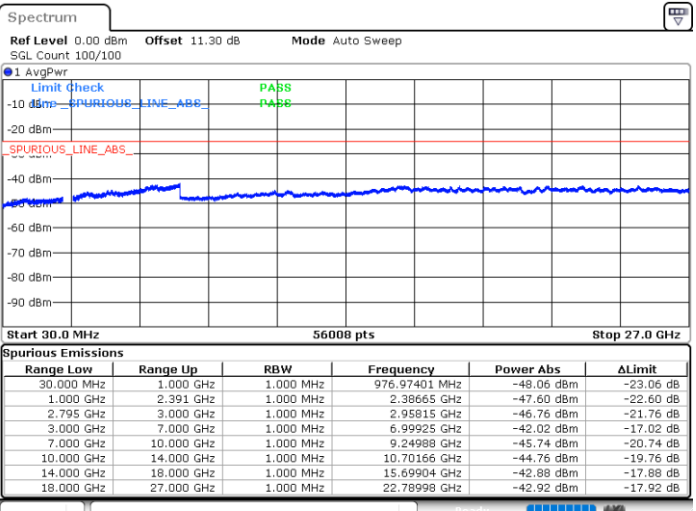
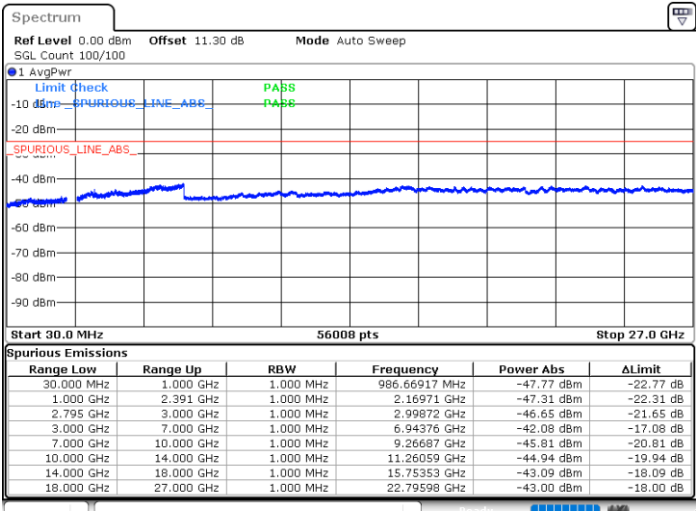
Date: 20.JAN.2021 05:13:20



FR1 n41 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

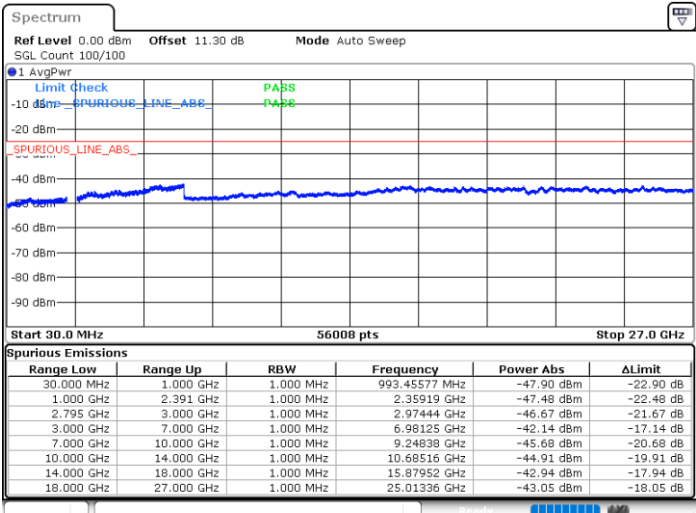
Middle Channel / 1RB



Date: 20.JAN.2021 03:40:05

Date: 20.JAN.2021 03:52:51

Highest Channel / 1RB



Date: 20.JAN.2021 03:58:36