

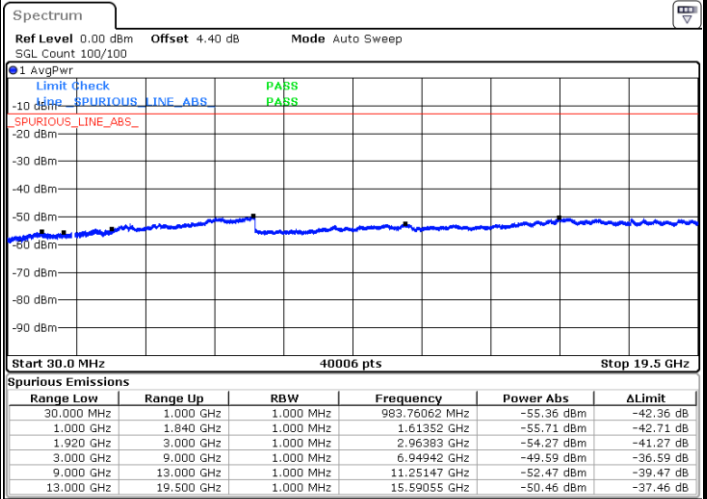
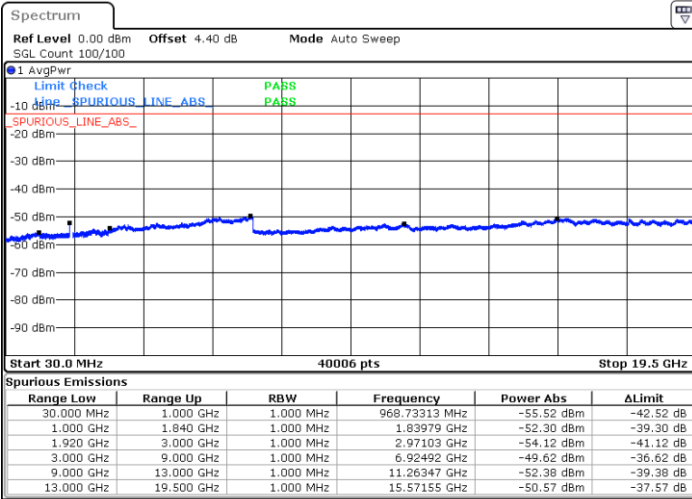


# Conducted Spurious Emission

FR1 n25 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

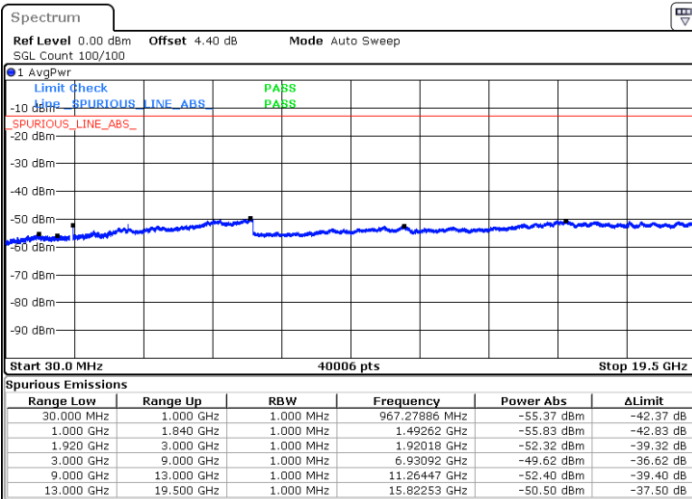
Middle Channel / 1RB



Date: 14.JAN.2021 06:41:40

Date: 14.JAN.2021 06:51:49

Highest Channel / 1RB



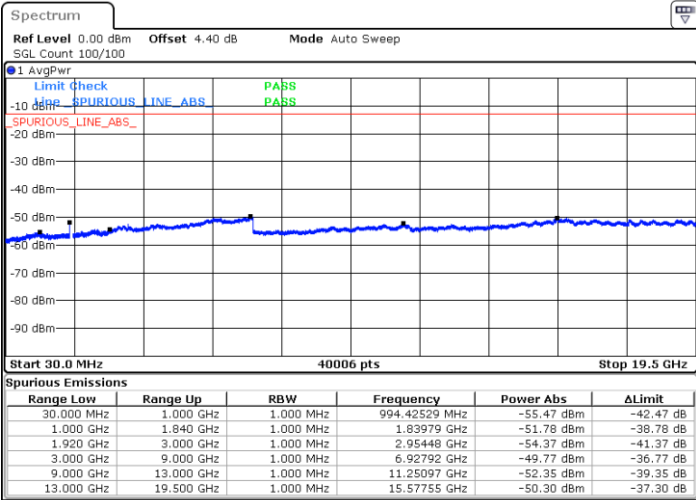
Date: 14.JAN.2021 07:35:57



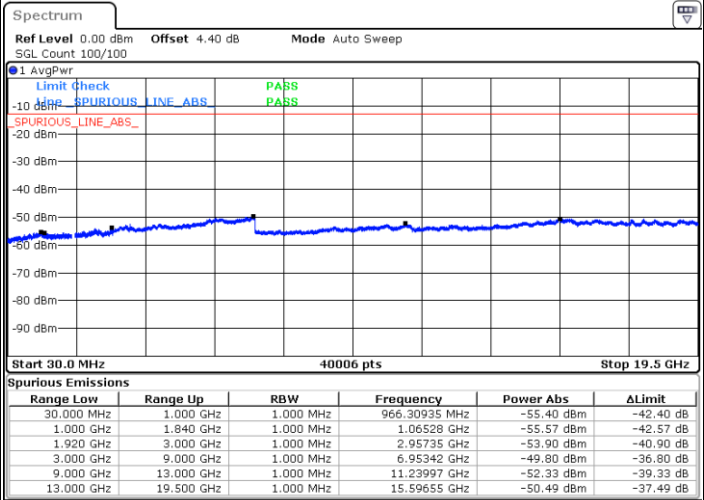
FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

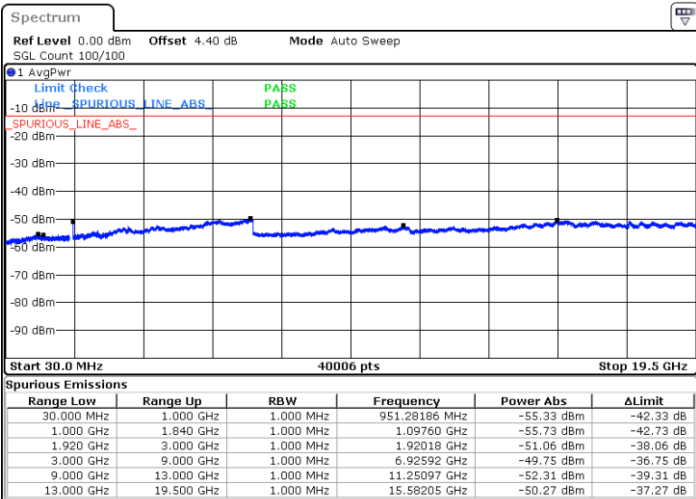


Date: 14.JAN.2021 06:43:31



Date: 14.JAN.2021 07:33:23

Highest Channel / 1RB



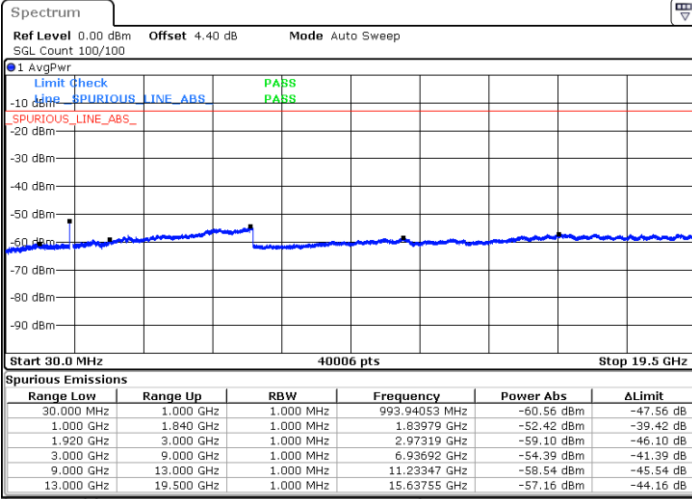
Date: 14.JAN.2021 07:35:13



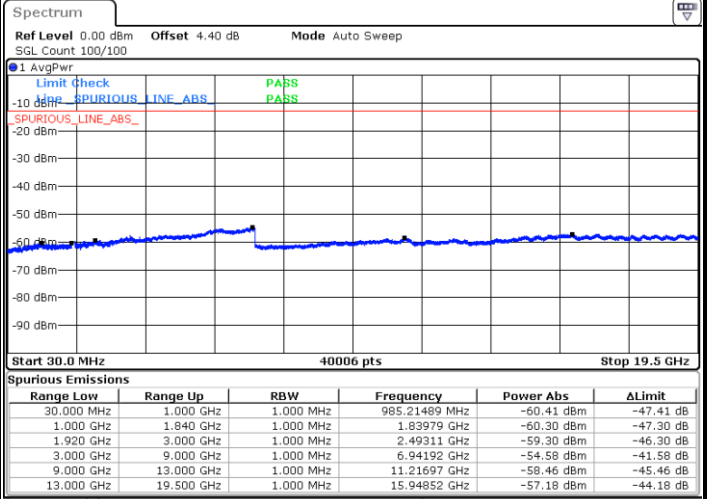
FR1 n25 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

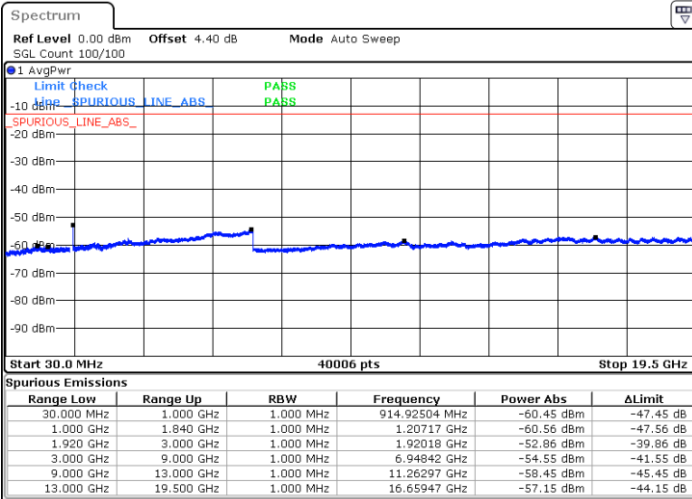


Date: 14.JAN.2021 06:11:40



Date: 14.JAN.2021 06:19:29

Highest Channel / 1RB



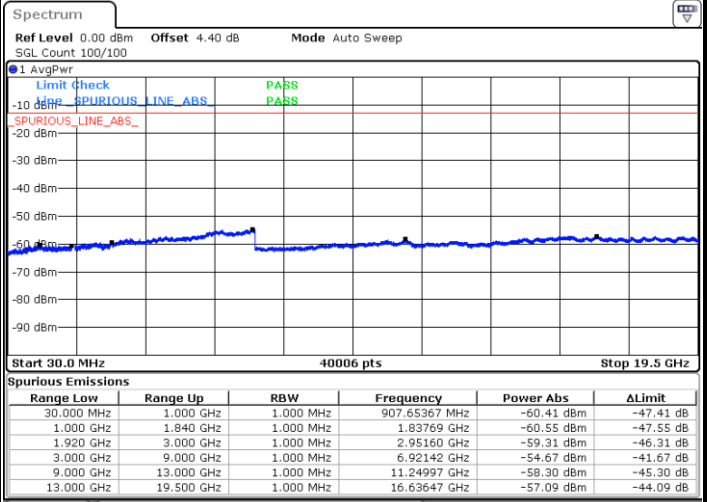
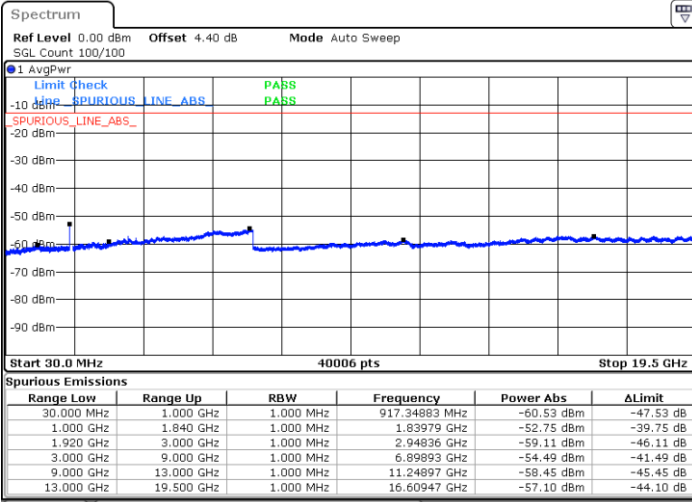
Date: 14.JAN.2021 06:24:29



FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

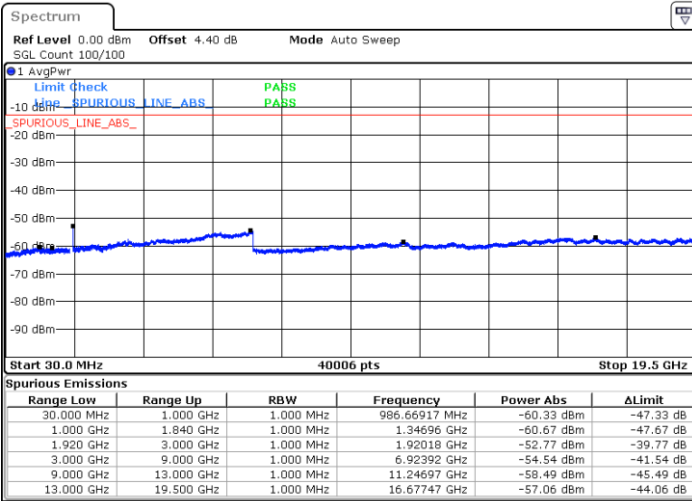
Middle Channel / 1RB



Date: 14.JAN.2021 06:13:34

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

Highest Channel / 1RB

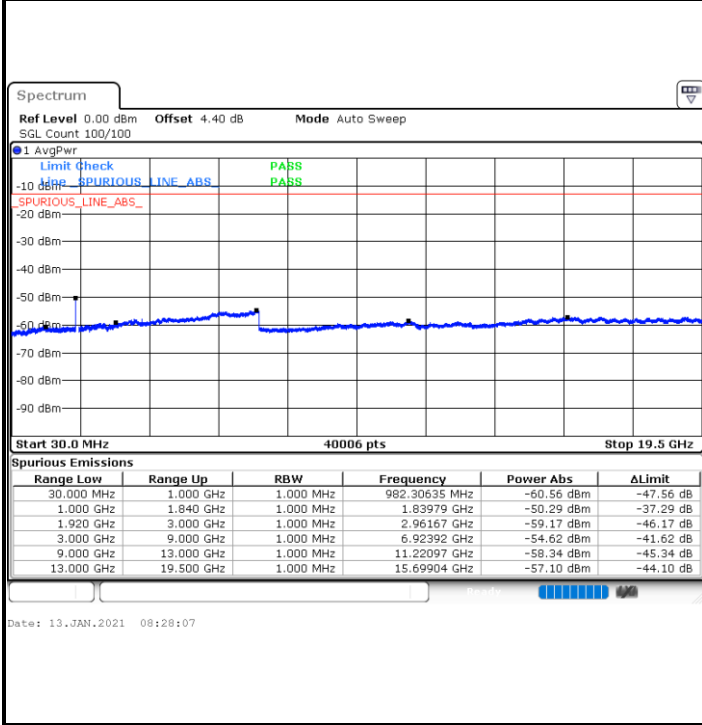


Date: 14.JAN.2021 06:22:47

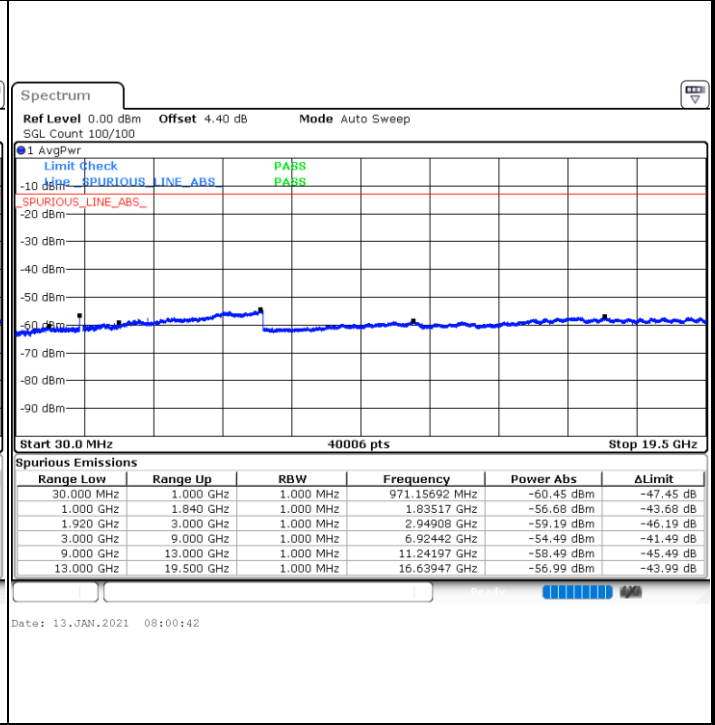


**FR1 n25 / 20MHz / DFT-S OFDM / BPSK**

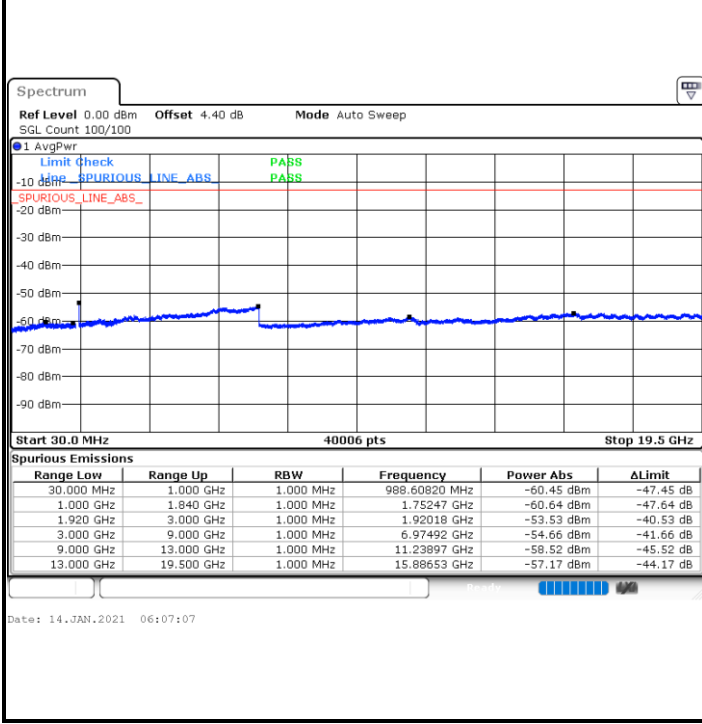
**Lowest Channel / 1RB**



**Middle Channel / 1RB**



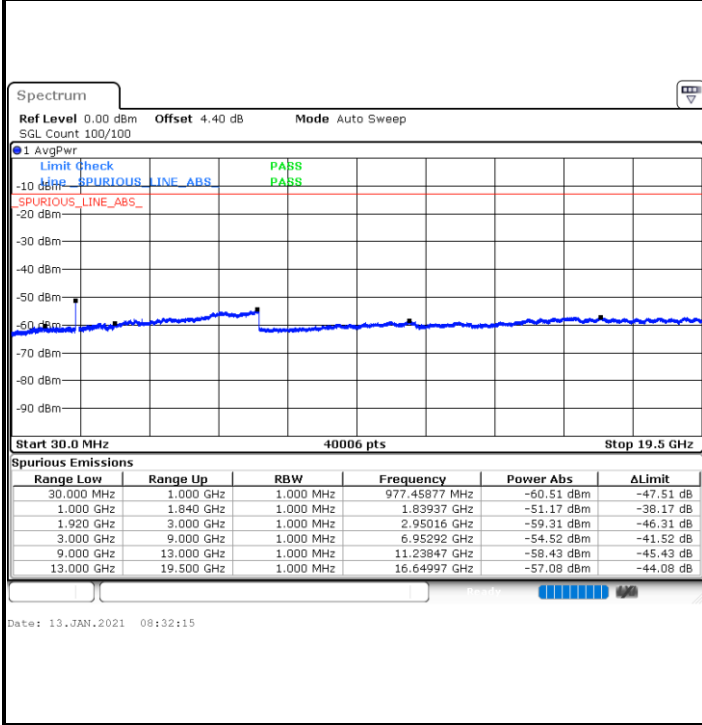
**Highest Channel / 1RB**



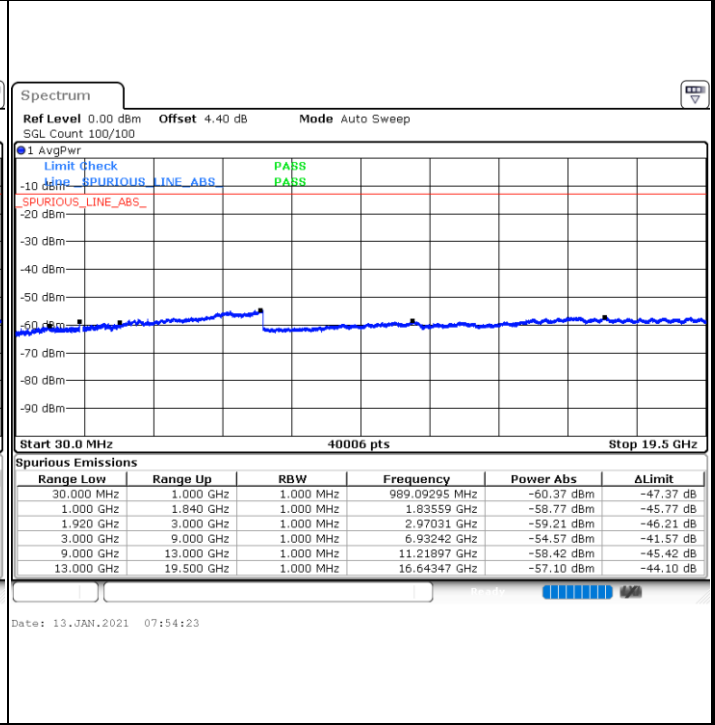


**FR1 n25 / 20MHz / DFT-S OFDM / QPSK**

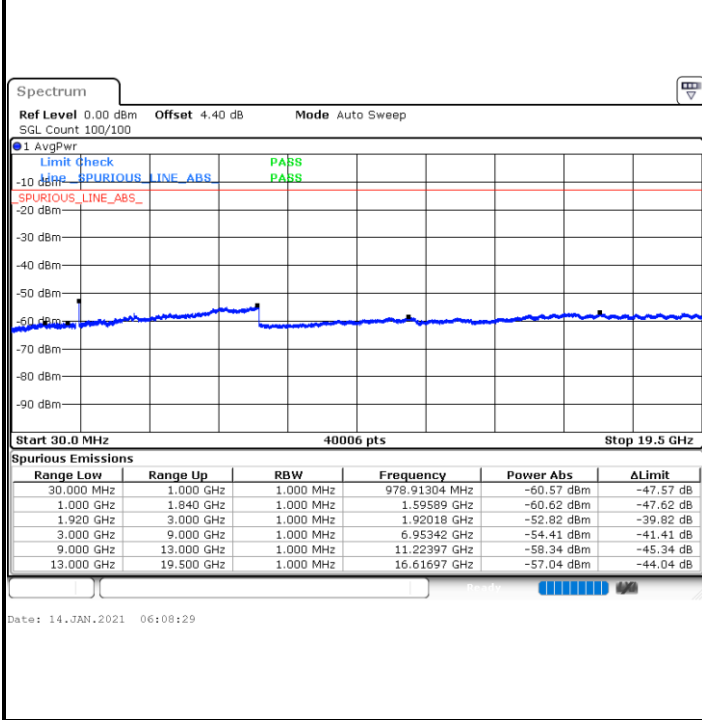
**Lowest Channel / 1RB**



**Middle Channel / 1RB**



**Highest Channel / 1RB**





Frequency Stability

Test Conditions		NR n25 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0025	

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.



# FR1 n66 SA

## Peak-to-Average Ratio

Mode	FR1 n66 / 5MHz / 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	3.33	3.86	5.04	5.39	<b>PASS</b>
Middle CH	3.30	3.86	5.01	5.42	
Highest CH	3.42	3.83	4.93	5.48	





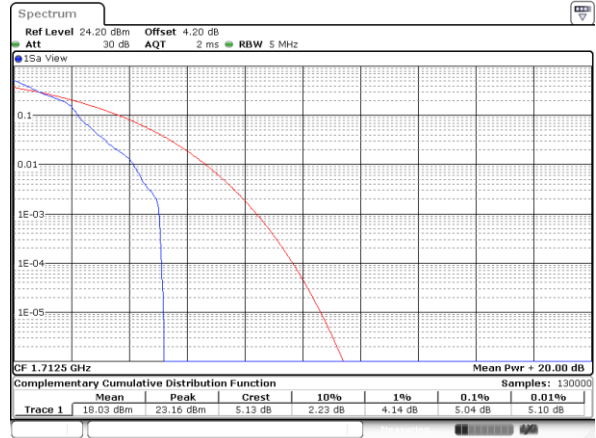
FR1 n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

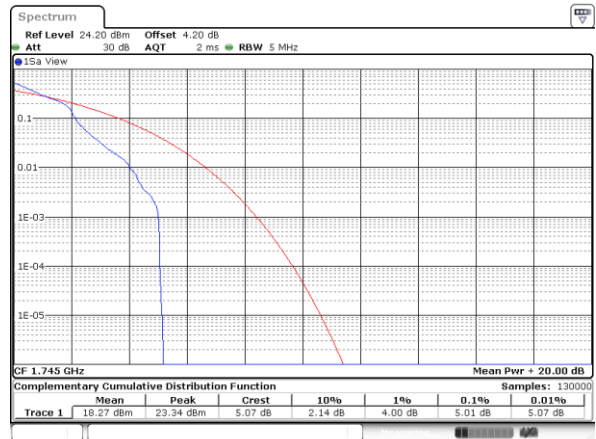
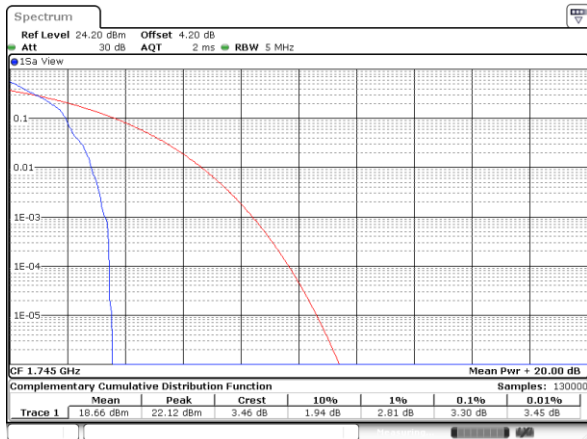


Date: 16\_JAN.2021 03:54:56

Date: 16\_JAN.2021 03:54:50

Middle Channel / 1 RB

Middle Channel / 1 RB

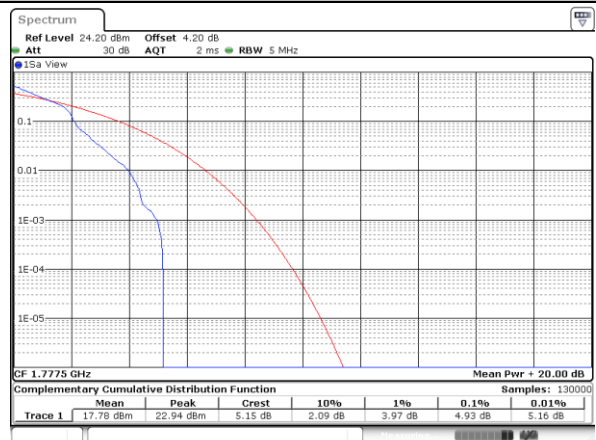
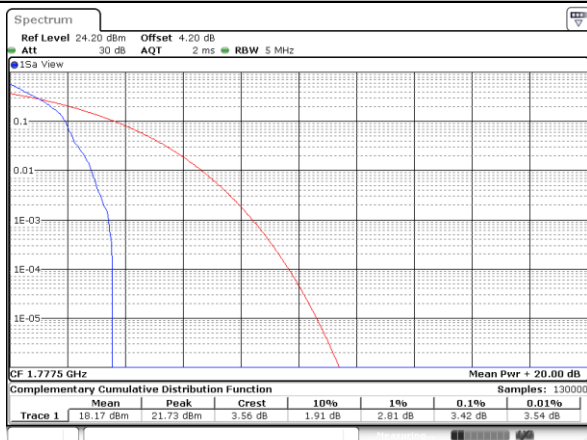


Date: 16\_JAN.2021 03:58:04

Date: 16\_JAN.2021 03:58:09

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 16\_JAN.2021 04:06:21

Date: 16\_JAN.2021 04:06:11



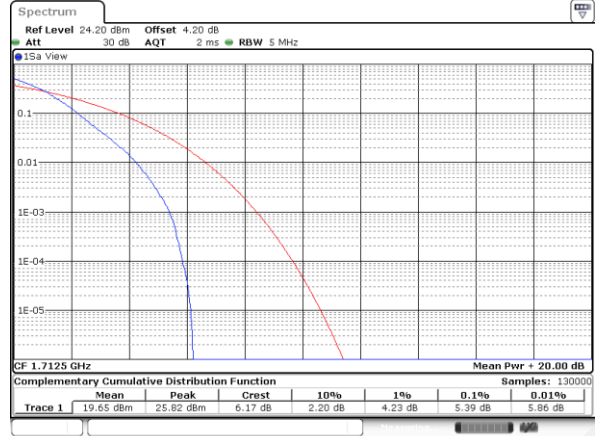
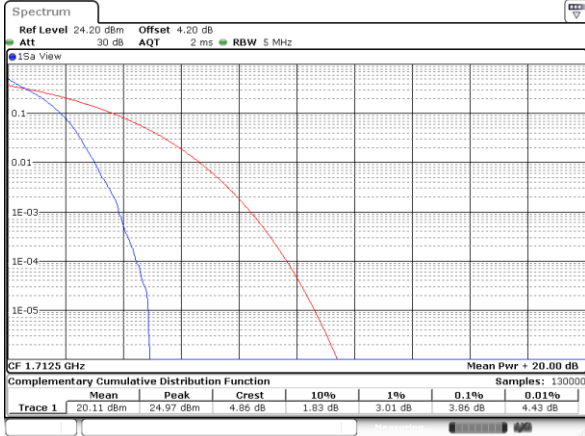
FR1 n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

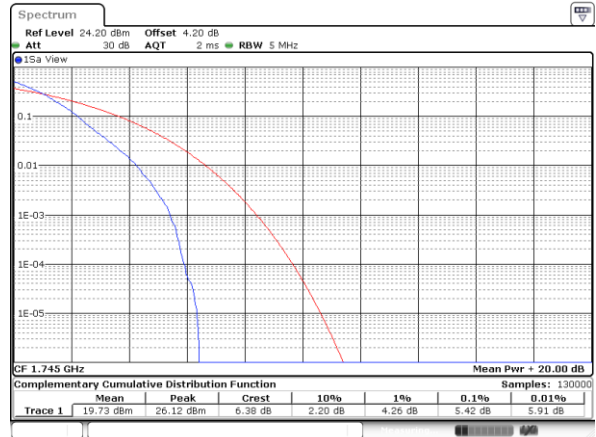
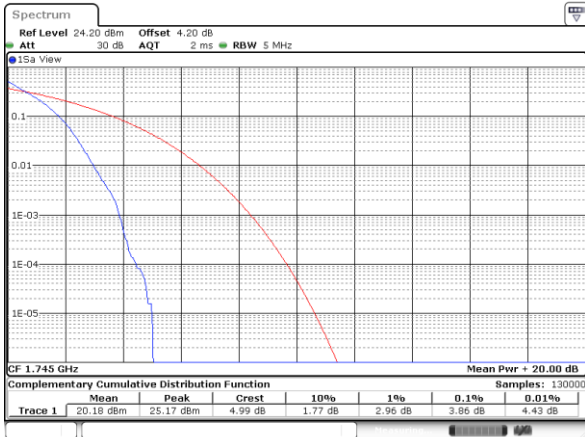


Date: 16\_JAN.2021 03:52:33

Date: 16\_JAN.2021 03:54:35

Middle Channel / Full RB

Middle Channel / Full RB

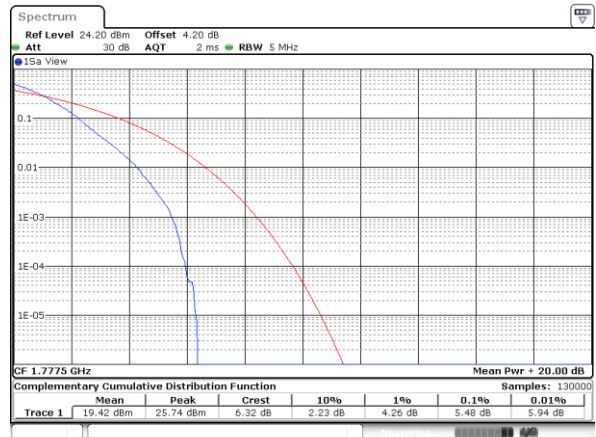
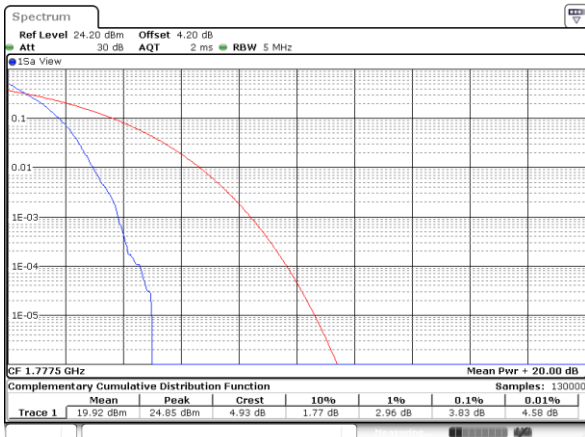


Date: 16\_JAN.2021 03:58:29

Date: 16\_JAN.2021 03:59:24

Highest Channel / Full RB

Highest Channel / Full RB



Date: 16\_JAN.2021 04:05:55

Date: 16\_JAN.2021 04:06:00



26dB Bandwidth

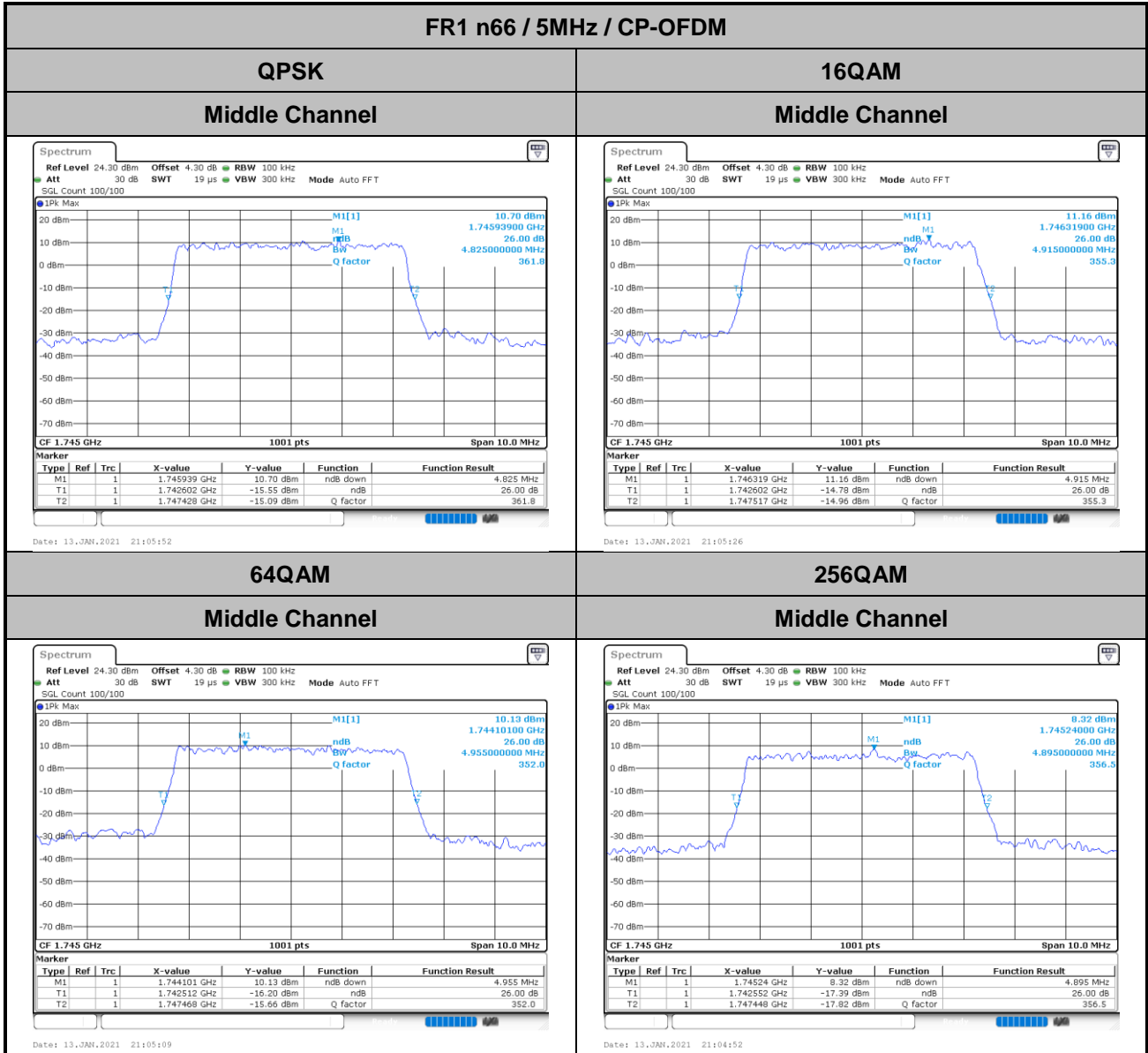
Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.83	4.92	4.96	4.89				

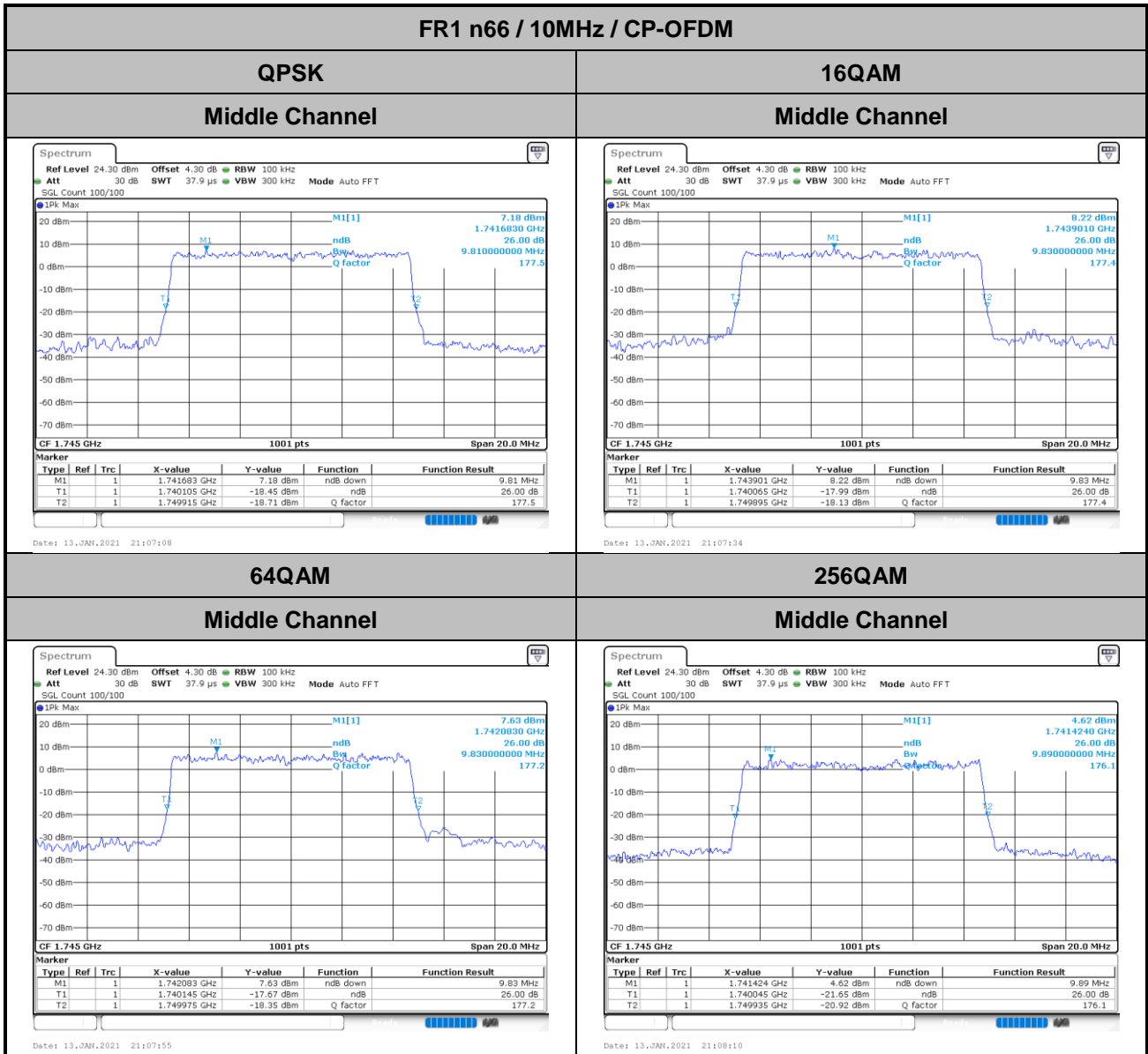
Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.81	9.83	9.83	9.89				

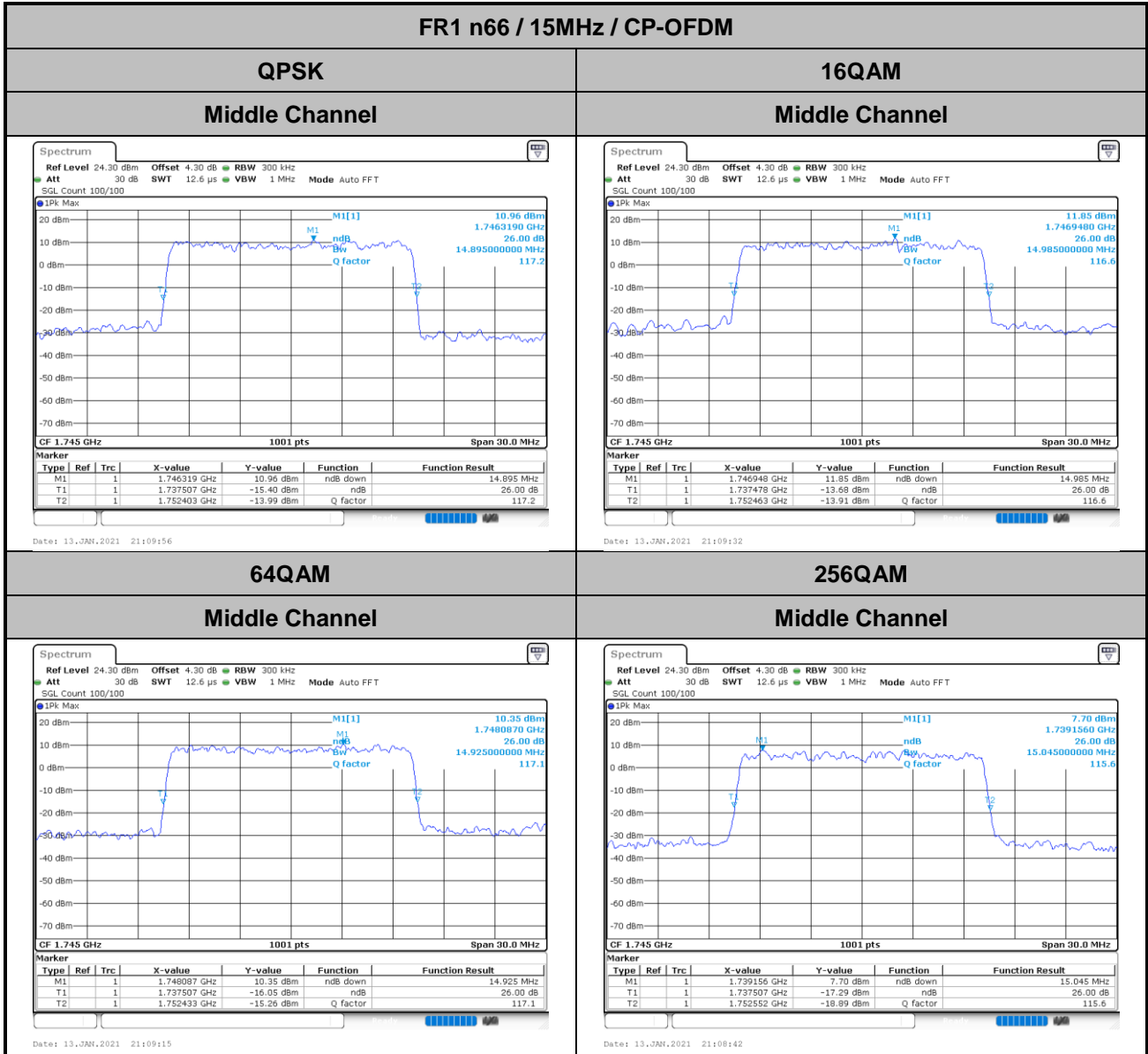
Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.89	14.98	14.93	15.04				

Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	20.06	20.22	20.10	19.94				

Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	40.99	40.99	40.91	40.99				









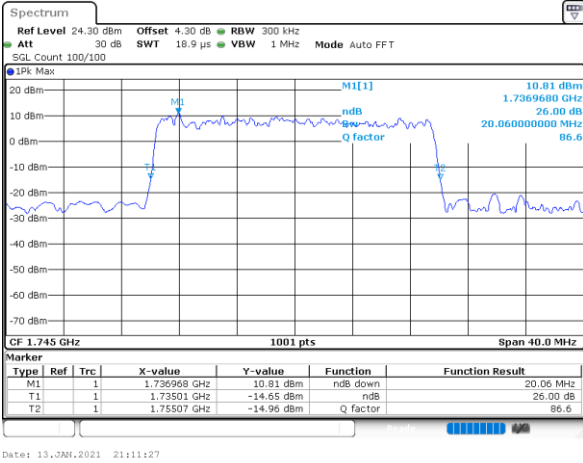
FR1 n66 / 20MHz / CP-OFDM

QPSK

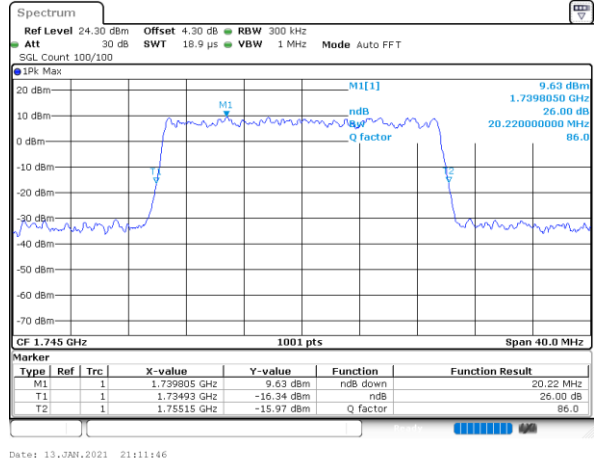
16QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 21:11:27



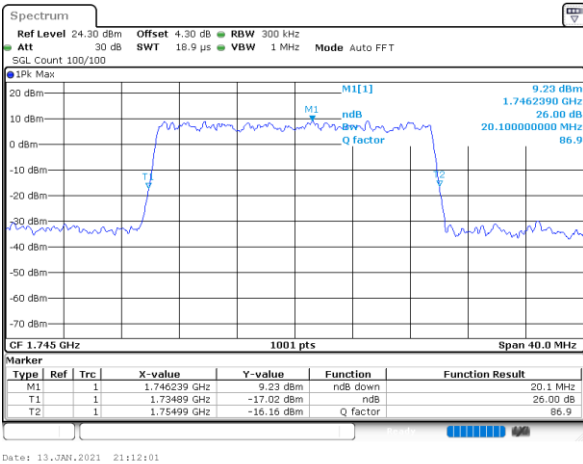
Date: 13.JAN.2021 21:11:46

64QAM

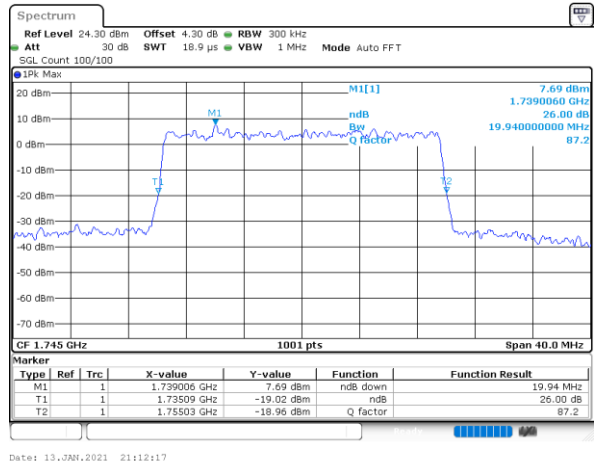
256QAM

Middle Channel

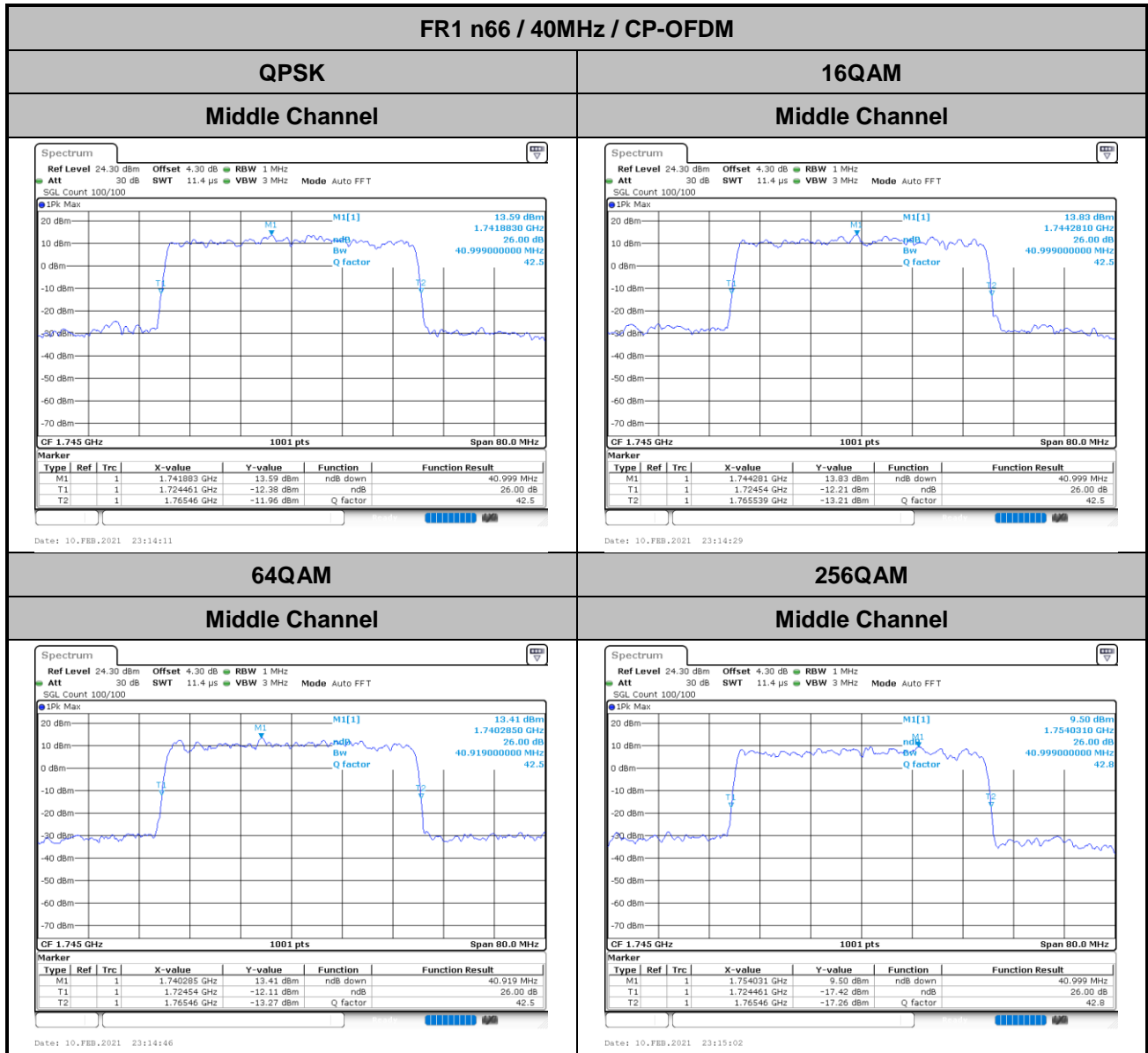
Middle Channel



Date: 13.JAN.2021 21:12:01



Date: 13.JAN.2021 21:12:17







### Occupied Bandwidth

Mode	FR1 n66 : OBW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.48	4.49	4.49	4.50				

Mode	FR1 n66 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.27	9.29	9.27	9.27				

Mode	FR1 n66 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.12	14.09	14.15	14.15				

Mode	FR1 n66 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.98	19.02	18.86	18.98				

Mode	FR1 n66 : OBW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	38.68	38.6	38.76	38.68				



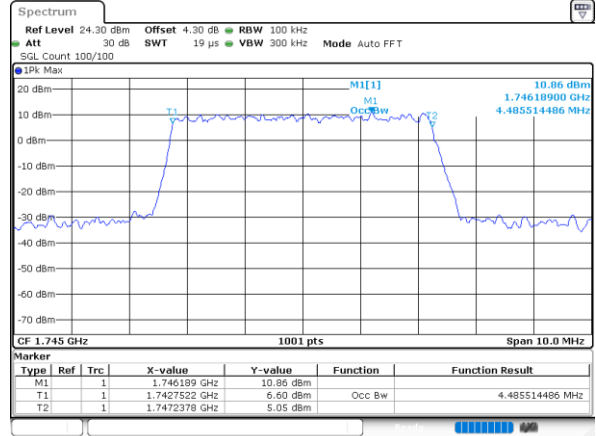
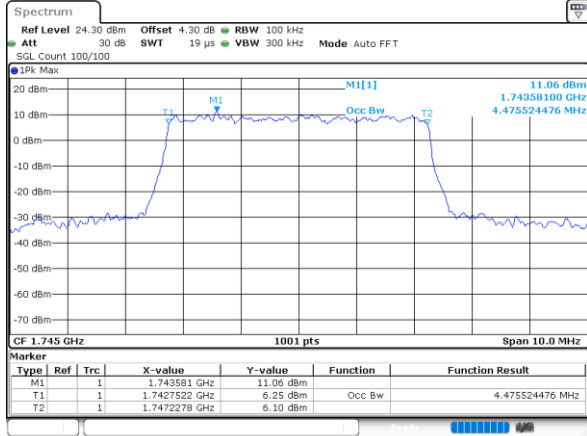
FR1 n66 / 5MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 21:05:39

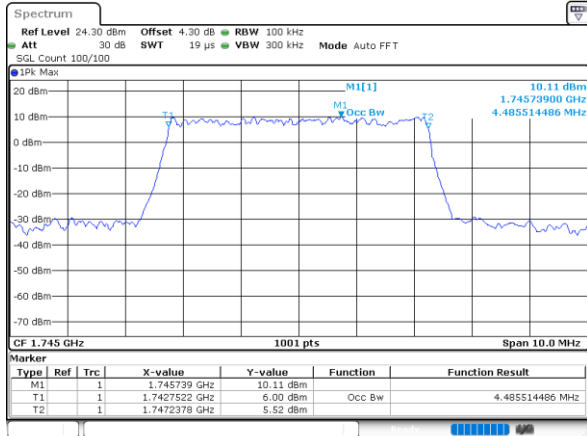
Date: 13.JAN.2021 21:05:22

64QAM

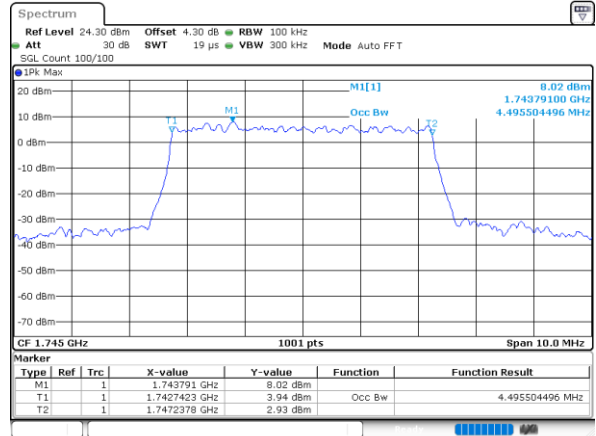
256QAM

Middle Channel

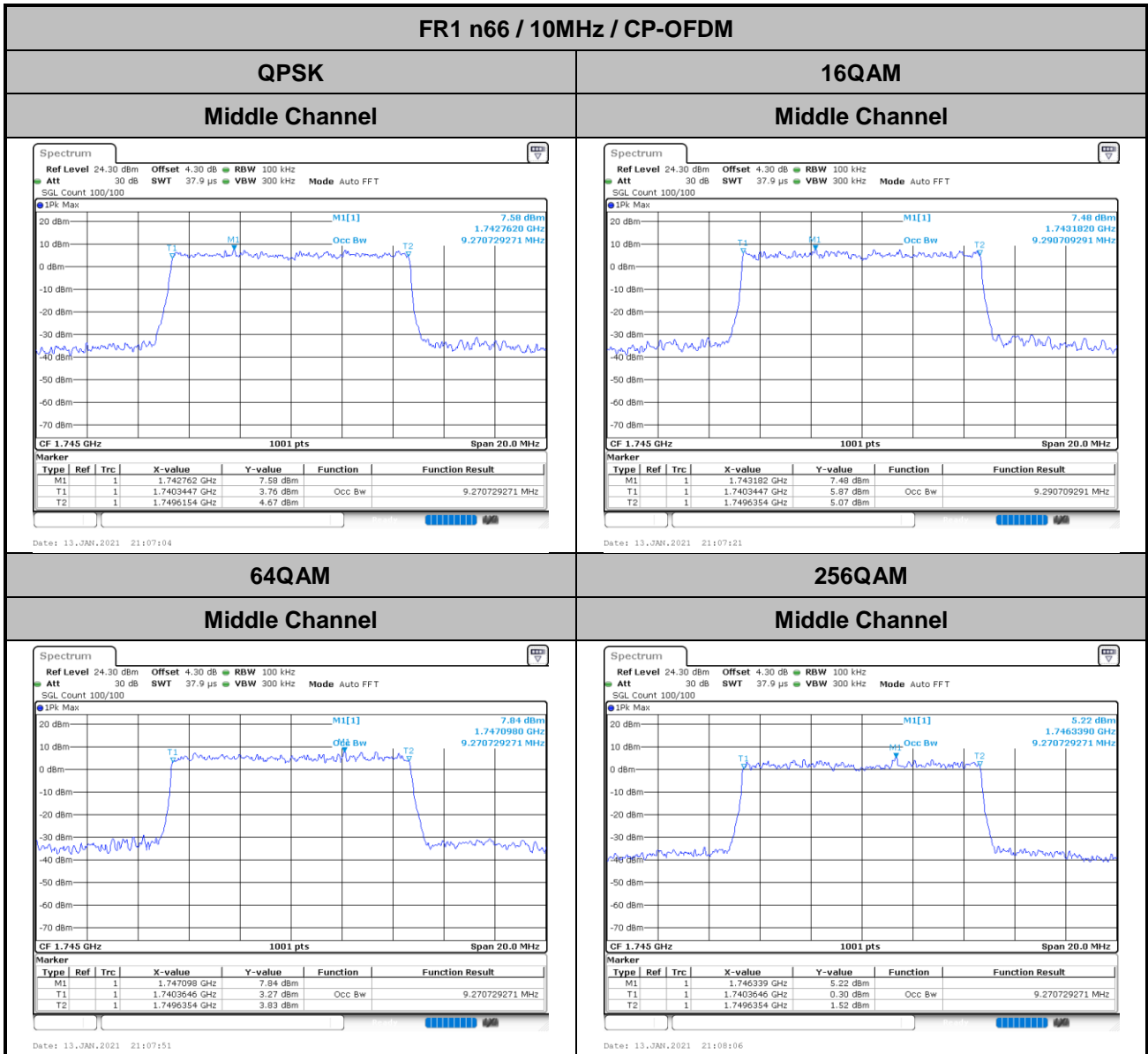
Middle Channel

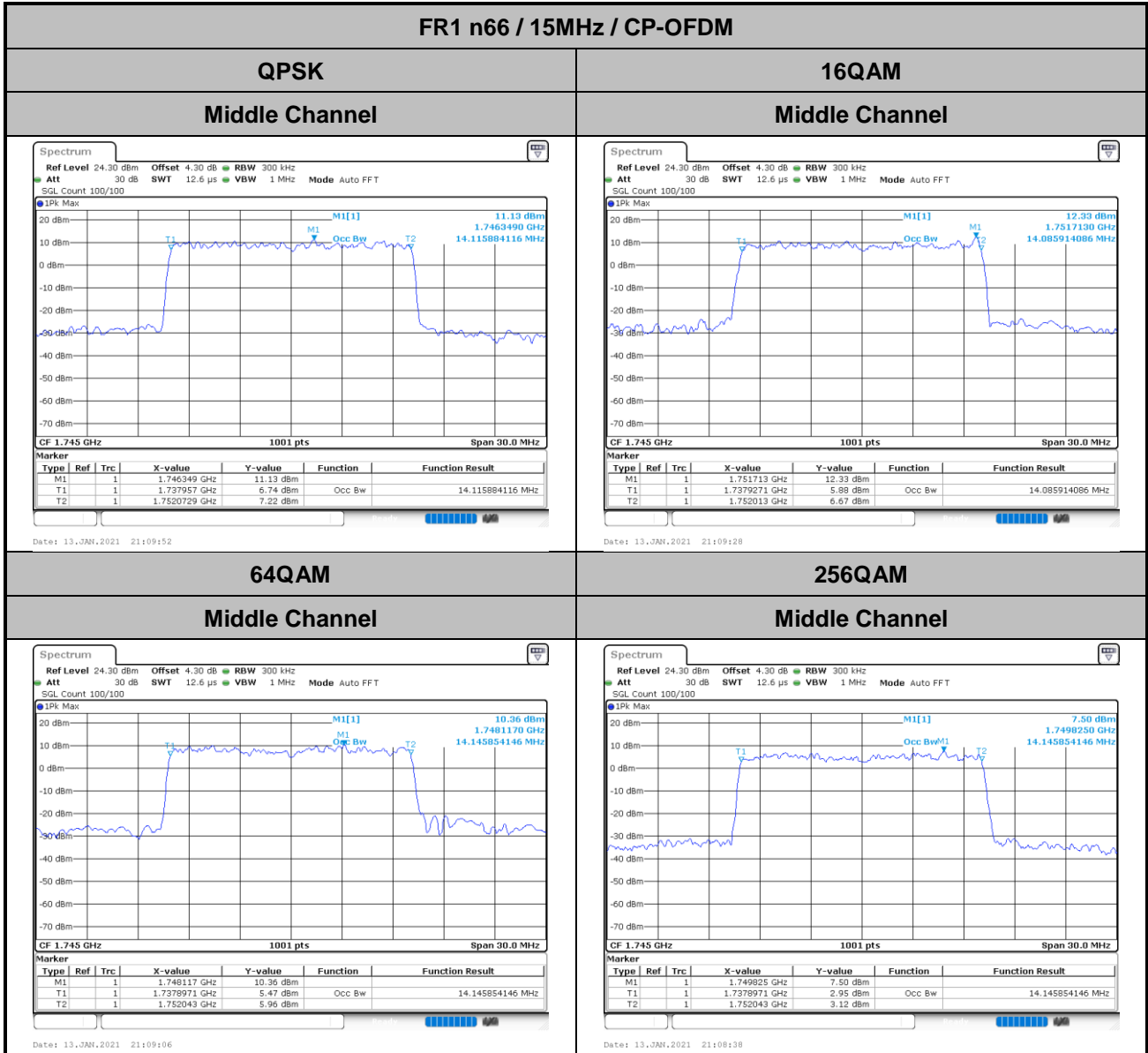


Date: 13.JAN.2021 21:05:05



Date: 13.JAN.2021 21:04:47







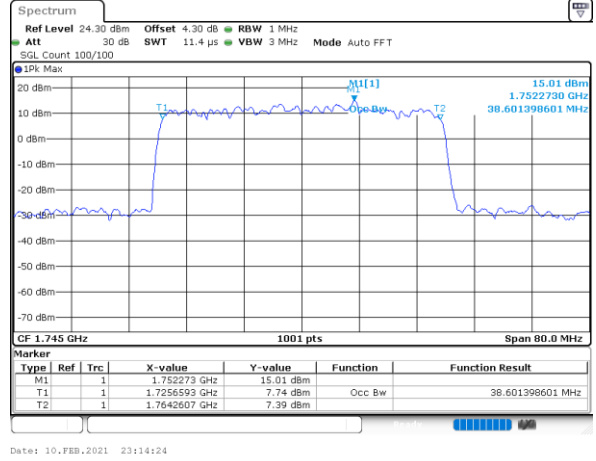
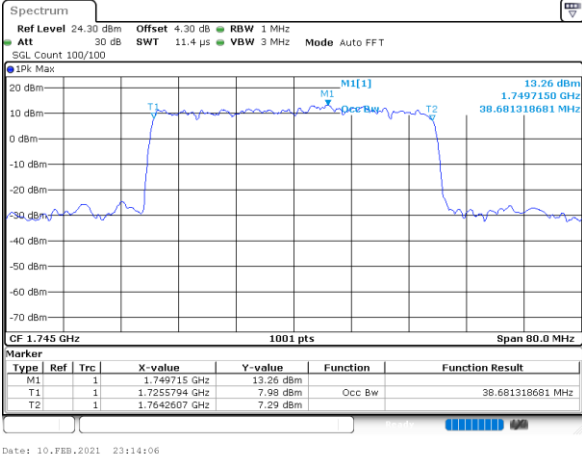
FR1 n66 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

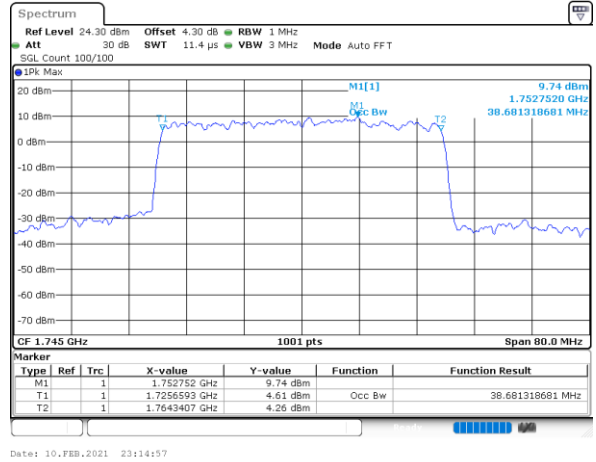
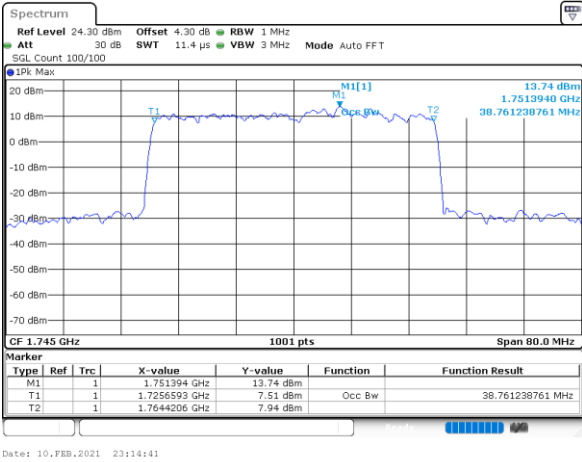


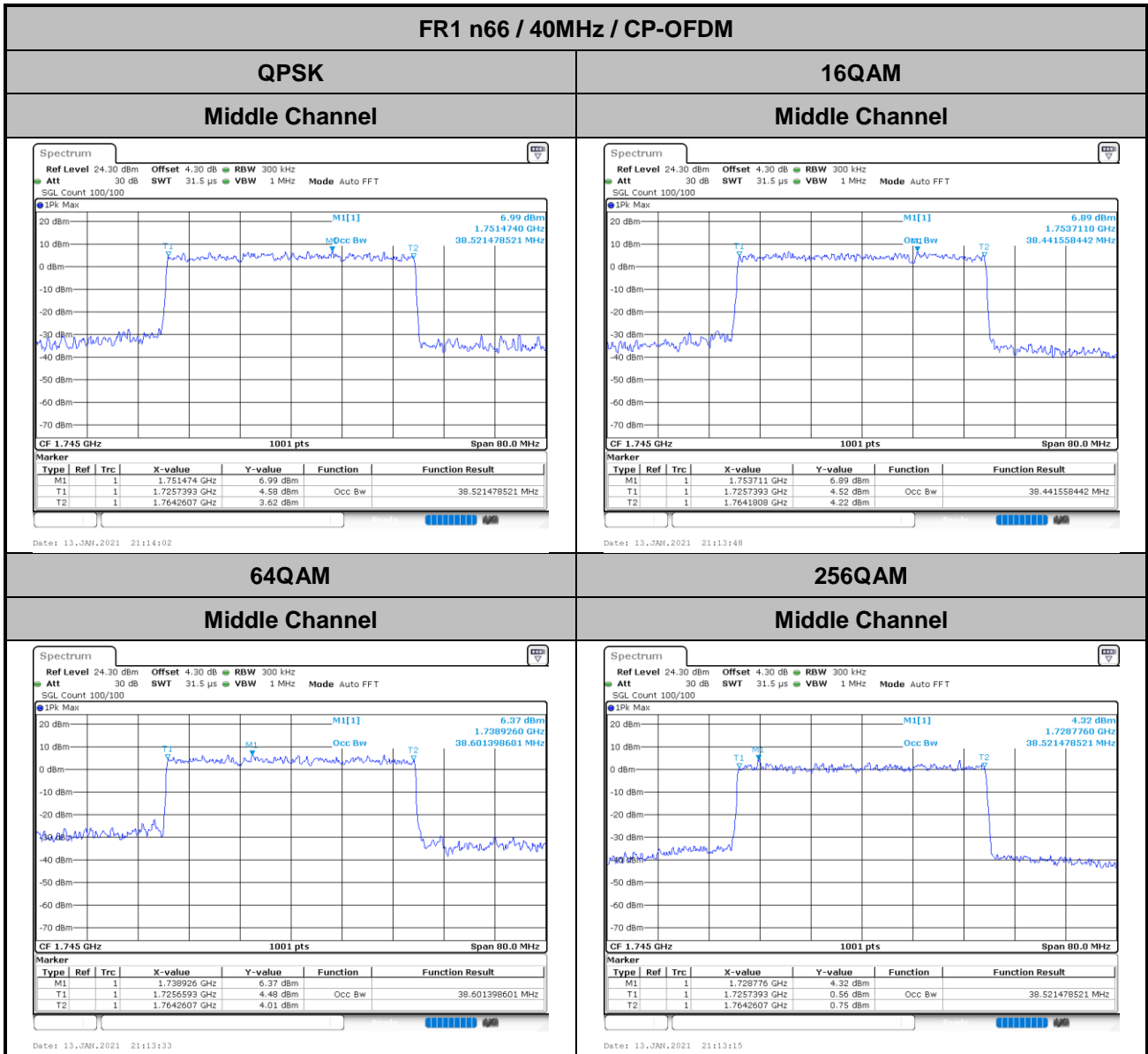
64QAM

256QAM

Middle Channel

Middle Channel

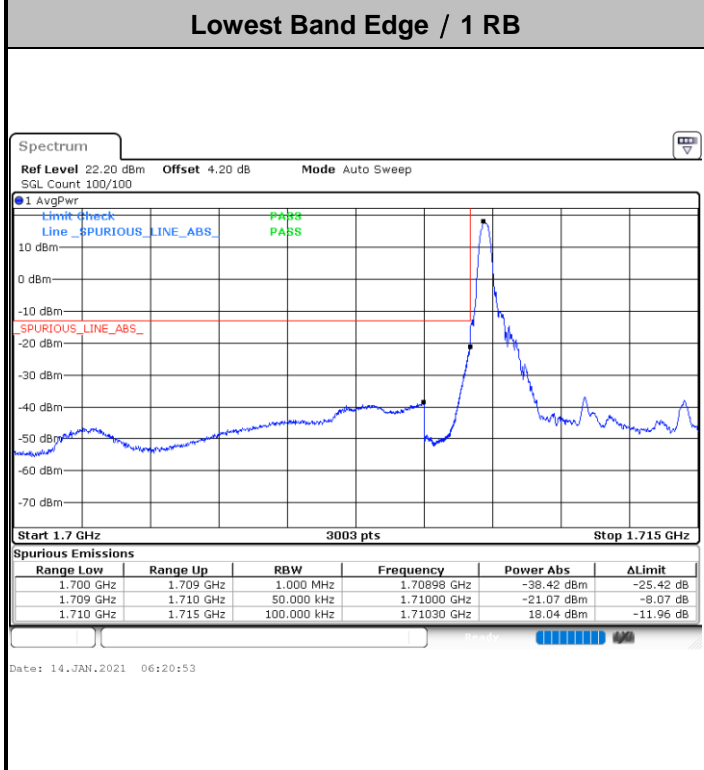




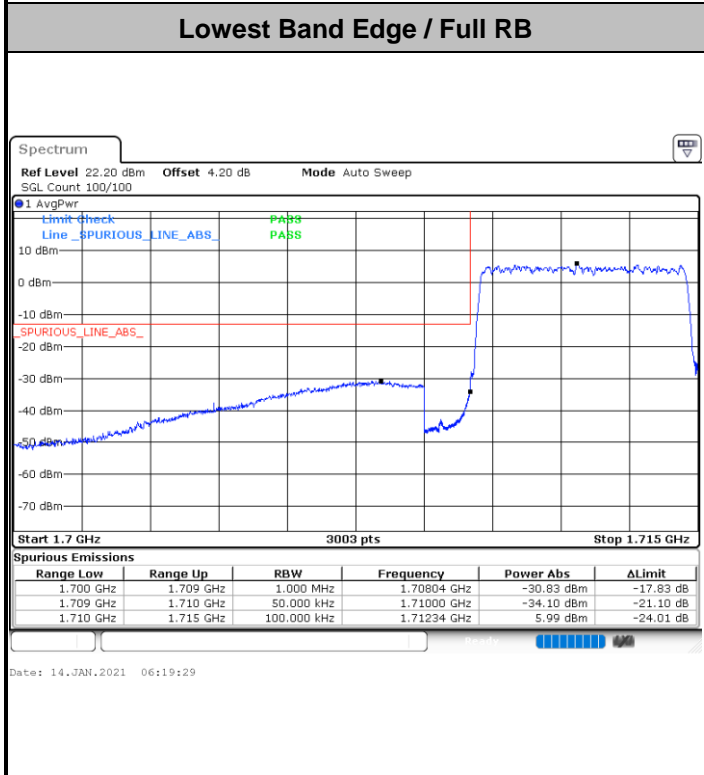


# Conducted Band Edge

## FR1 n66 / 5MHz / DFT-S OFDM BPSK



Channel Power < -13dBm Pass



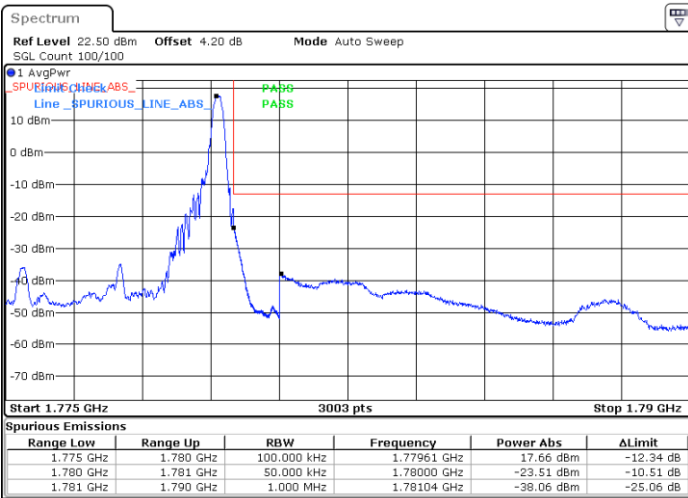
Channel Power < -13dBm Pass



FR1 n66 / 5MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

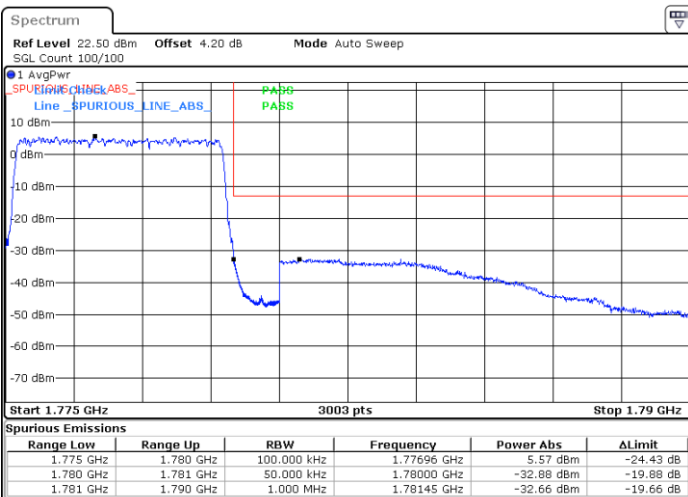
Channel Power < -13dBm Pass



Date: 14.JAN.2021 06:15:22

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 14.JAN.2021 06:12:53

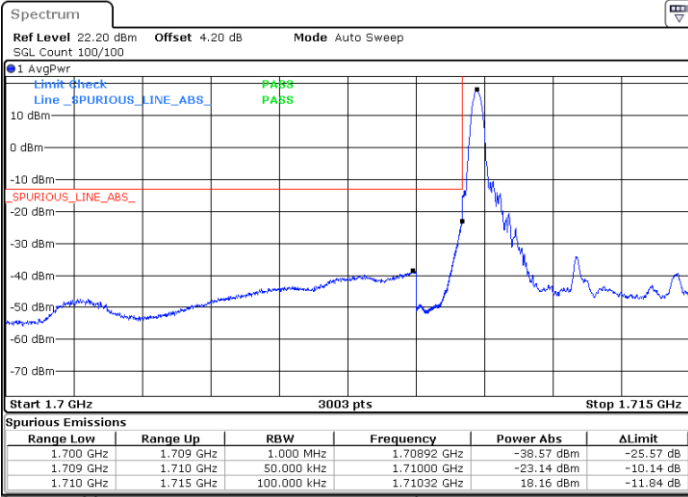




FR1 n66 / 5MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

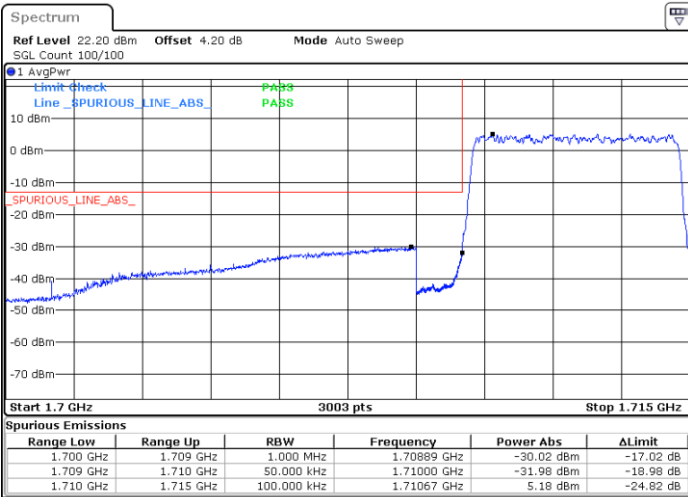


/

Date: 14. JAN. 2021 06:21:29

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



/

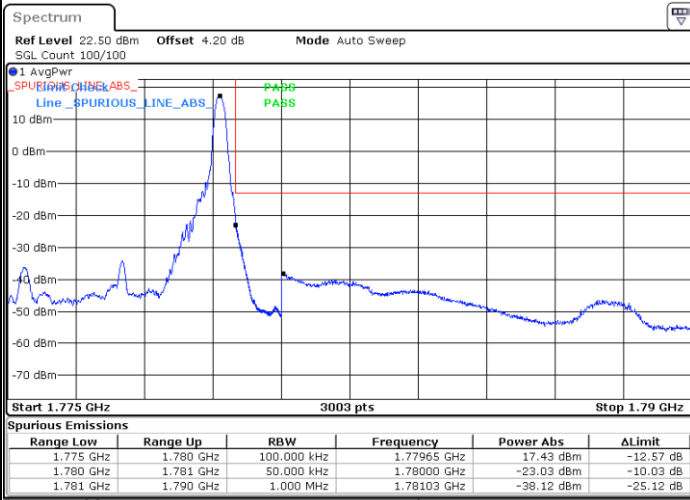
Date: 14. JAN. 2021 06:18:02



FR1 n66 / 5MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

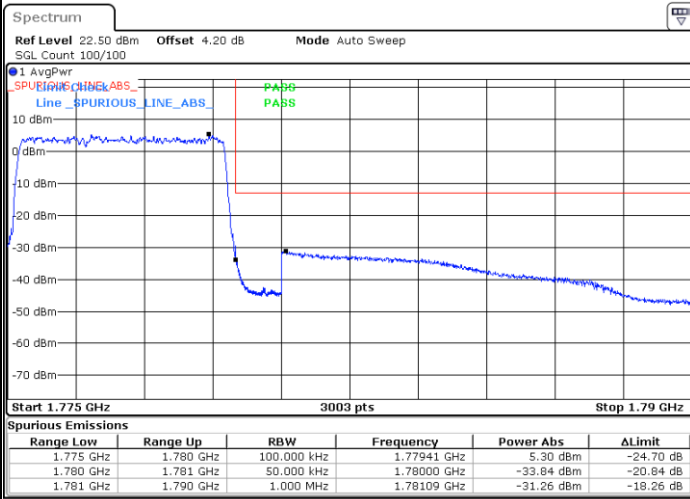
Channel Power < -13dBm Pass



Date: 14.JAN.2021 06:14:43

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



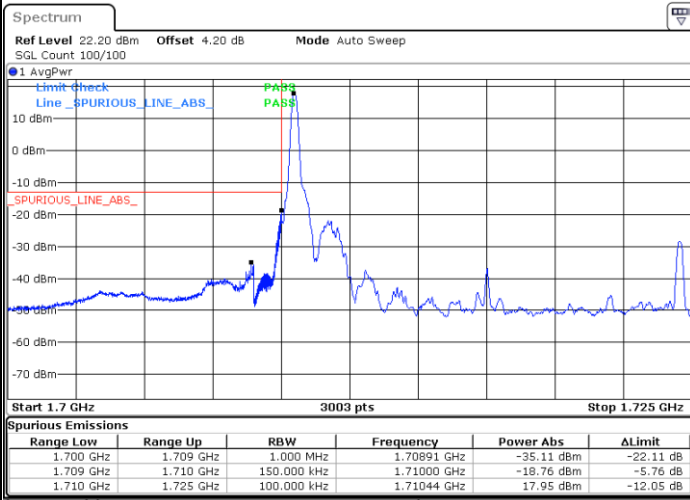
Date: 14.JAN.2021 06:14:07



FR1 n66 / 15MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

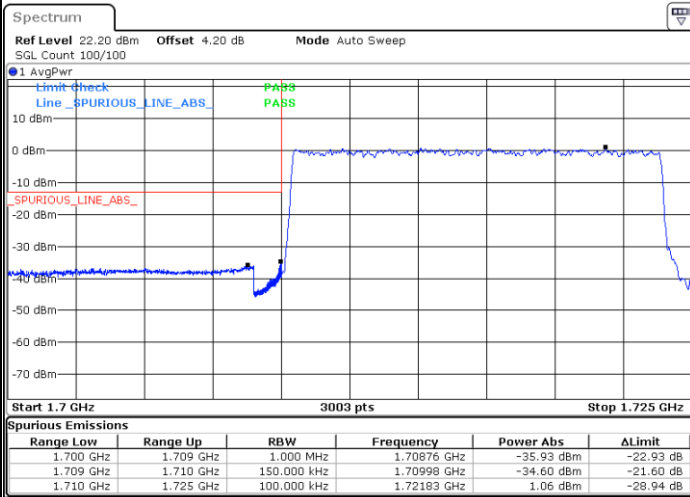
Channel Power < -13dBm Pass



Date: 14.JAN.2021 05:11:14

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



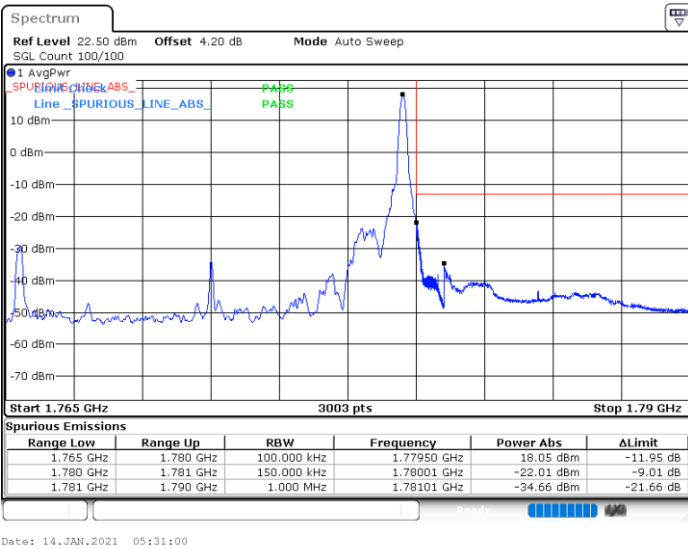
Date: 14.JAN.2021 05:03:05



FR1 n66 / 15MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

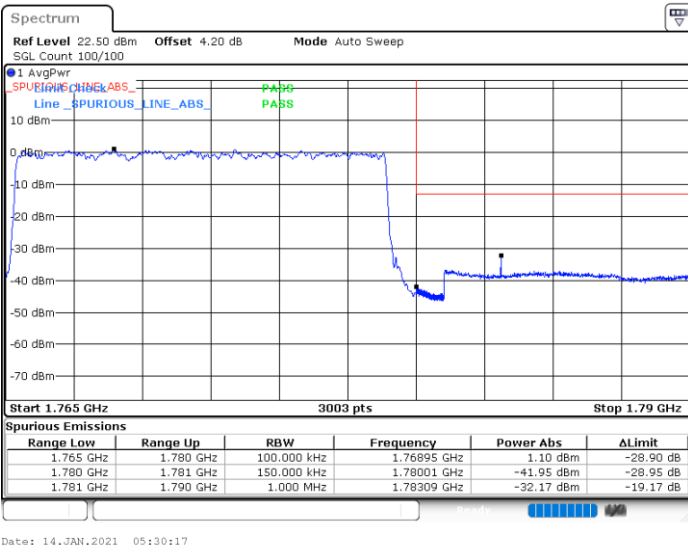
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



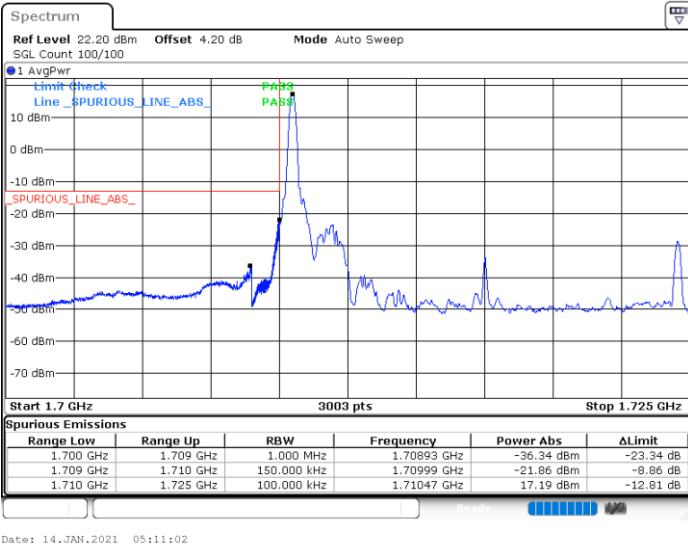
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FR1 n66 / 15MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

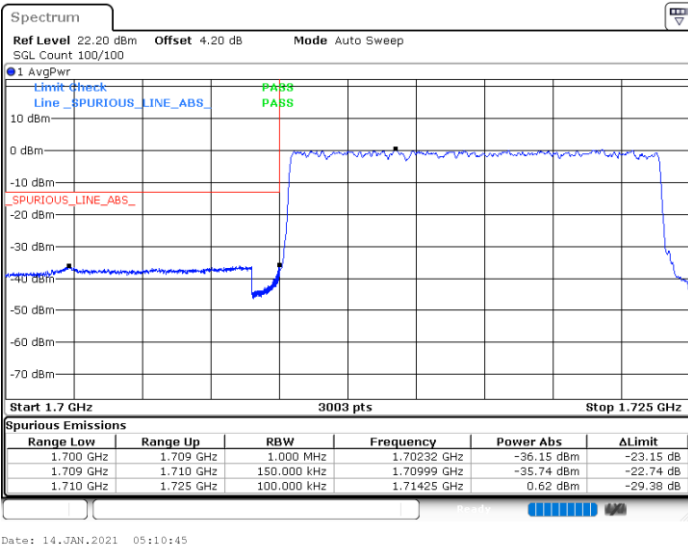
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



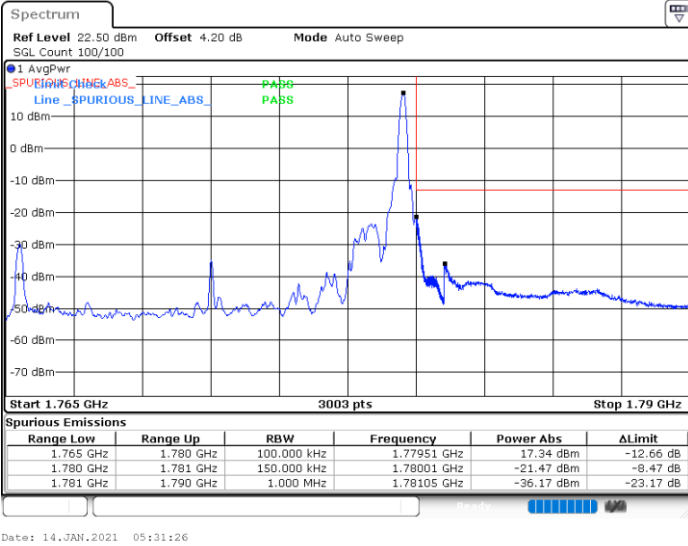
/



FR1 n66 / 15MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

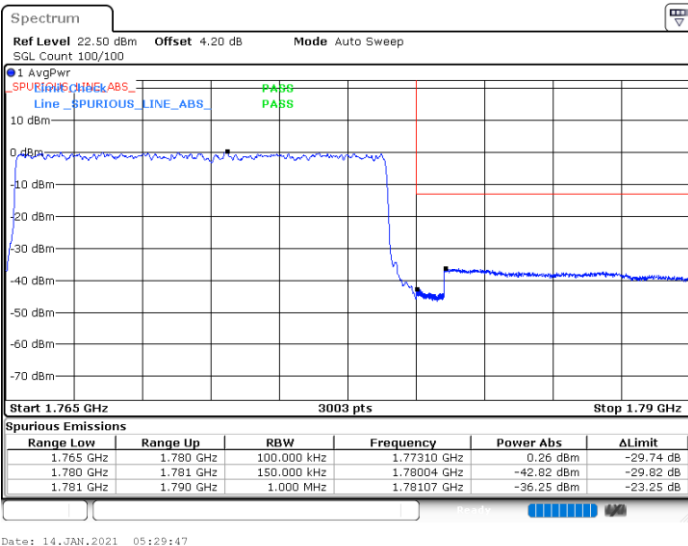
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass

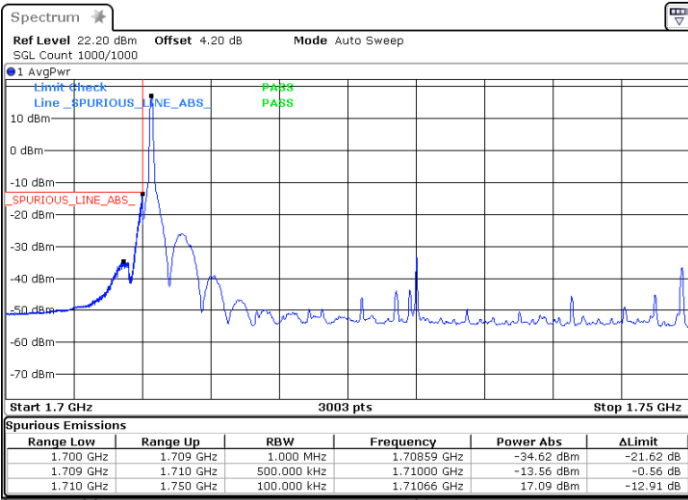


/



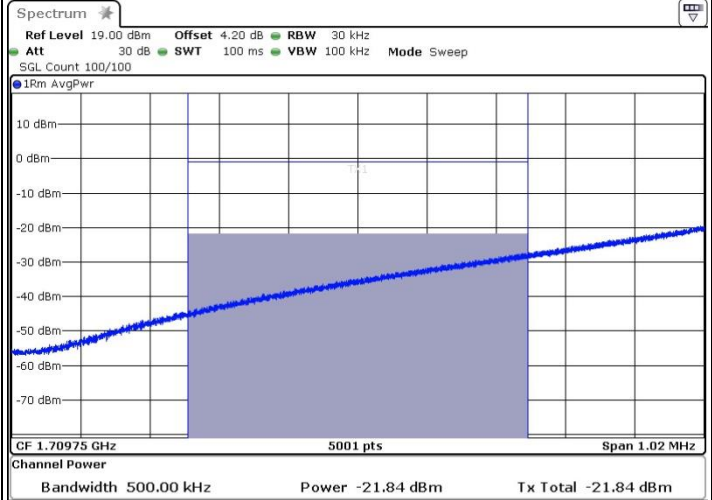
FR1 n66 / 40MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB



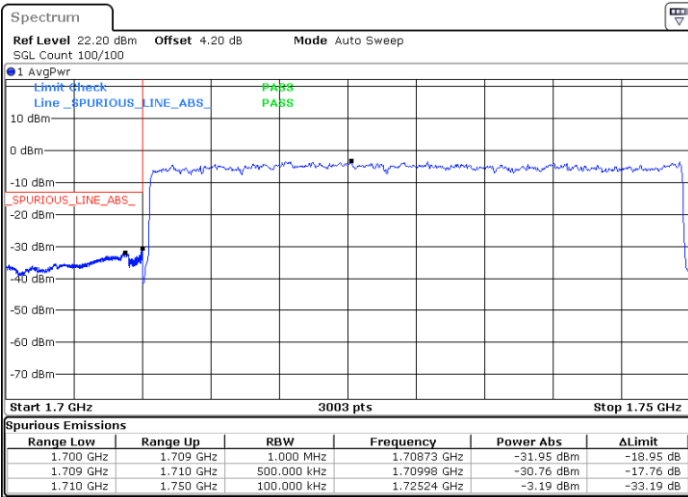
Date: 14.JAN.2021 04:17:54

Channel Power < -13dBm Pass



Date: 14.JAN.2021 04:20:56

Lowest Band Edge / Full RB



Date: 14.JAN.2021 04:21:23

Channel Power < -13dBm Pass

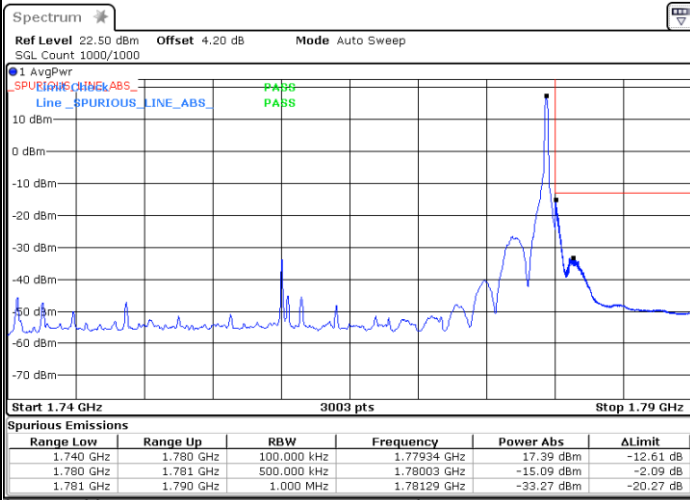
/



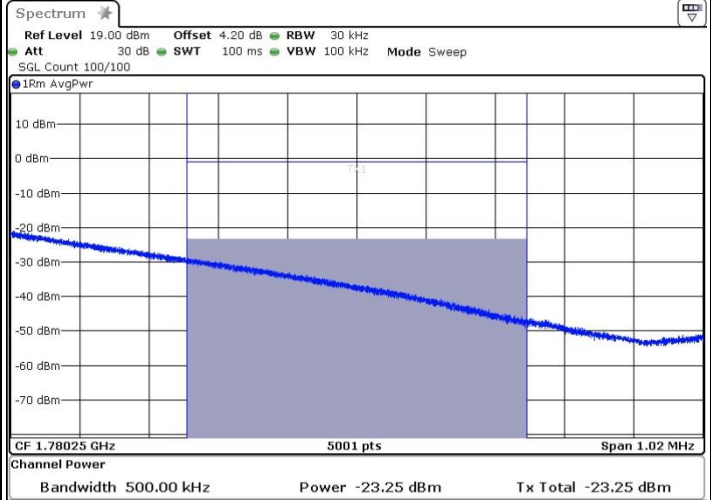
FR1 n66 / 40MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



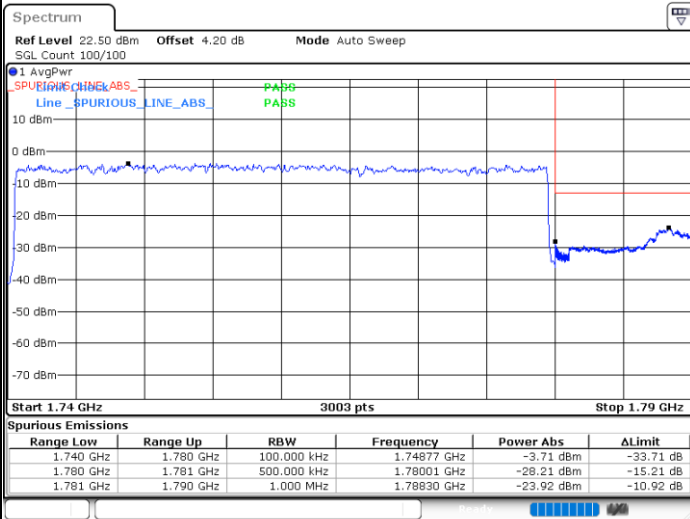
Date: 14.JAN.2021 04:03:56



Date: 14.JAN.2021 04:09:01

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 14.JAN.2021 04:02:05

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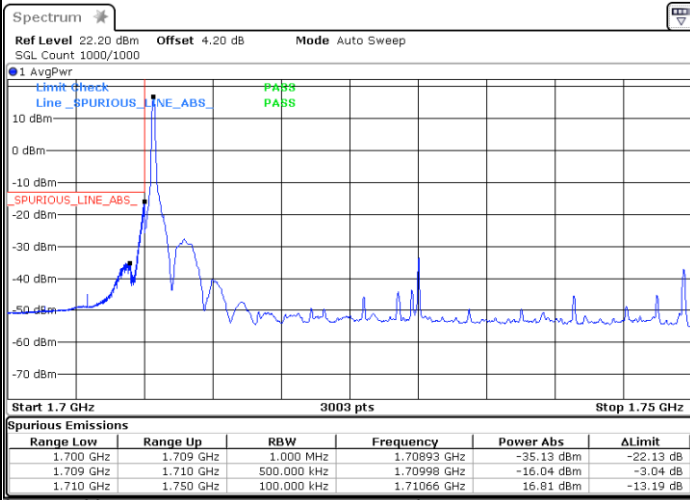




FR1 n66 / 40MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

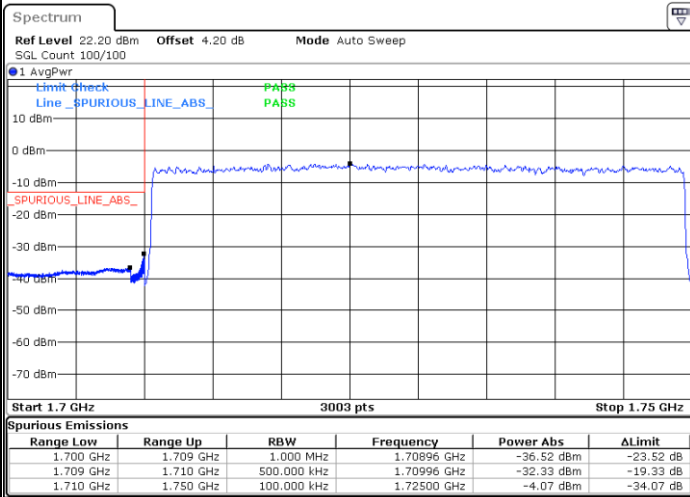
Channel Power < -13dBm Pass



Date: 14.JAN.2021 04:15:09

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



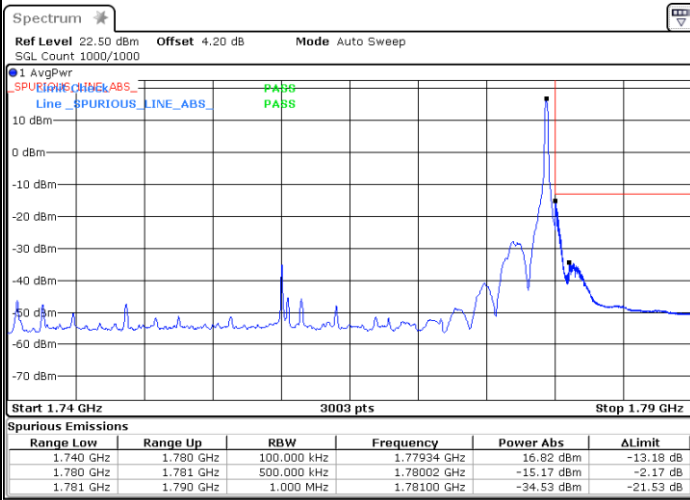
Date: 14.JAN.2021 04:21:35



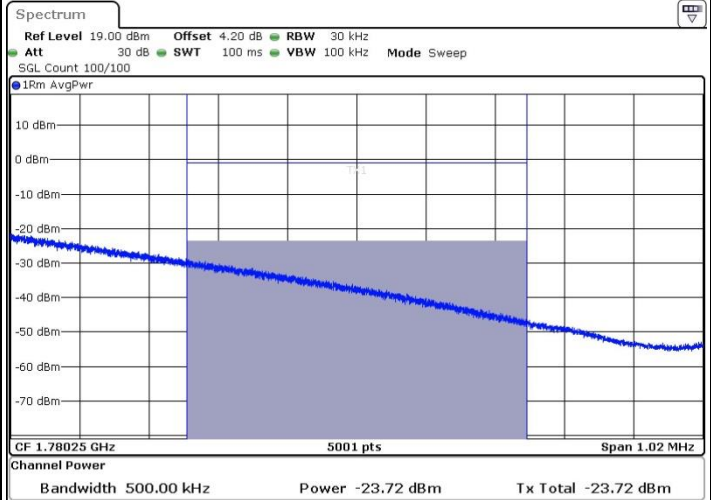
FR1 n66 / 40MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



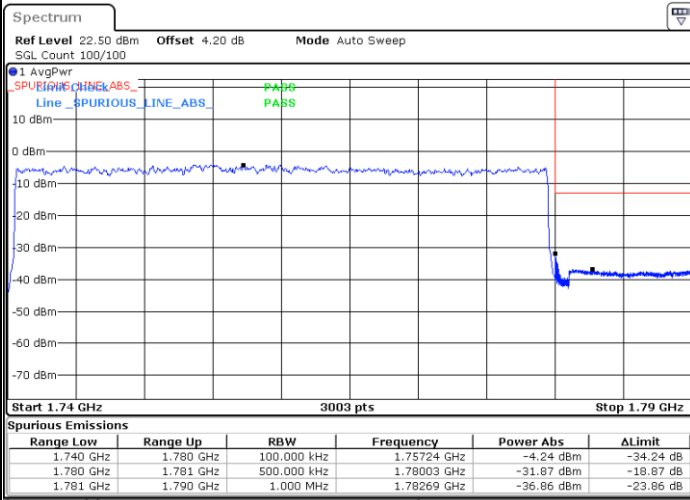
Date: 14.JAN.2021 04:11:45



Date: 14.JAN.2021 04:09:35

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 14.JAN.2021 04:01:51

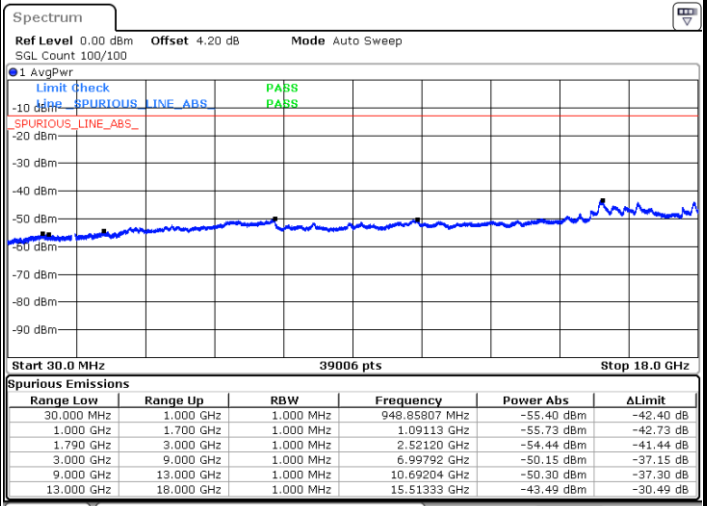
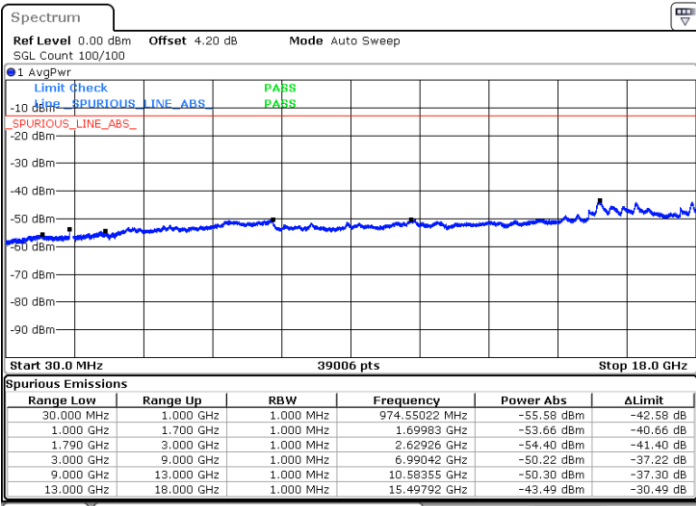


# Conducted Spurious Emission

FR1 n66 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

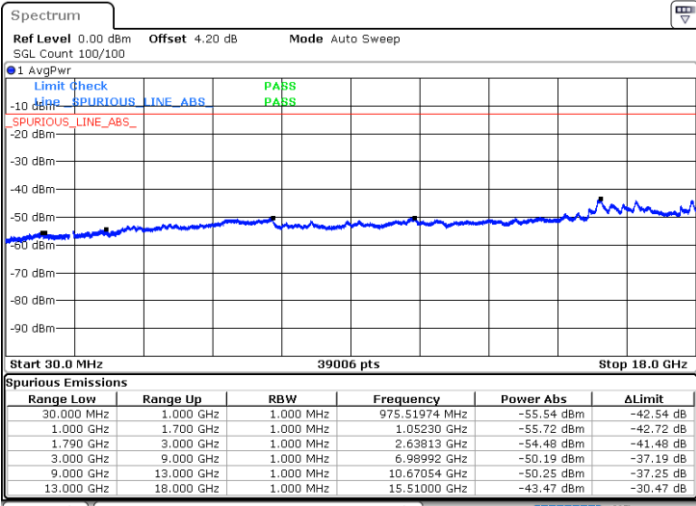
Middle Channel / 1RB



Date: 14.JAN.2021 06:03:16

Date: 14.JAN.2021 06:04:59

Highest Channel / 1RB



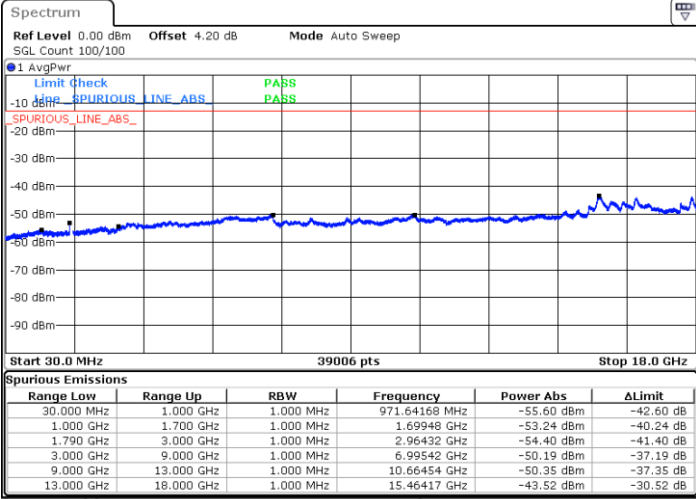
Date: 14.JAN.2021 06:11:27



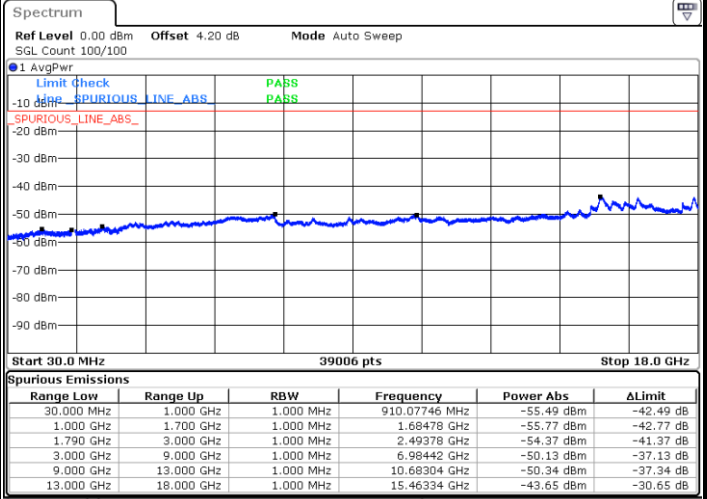
FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

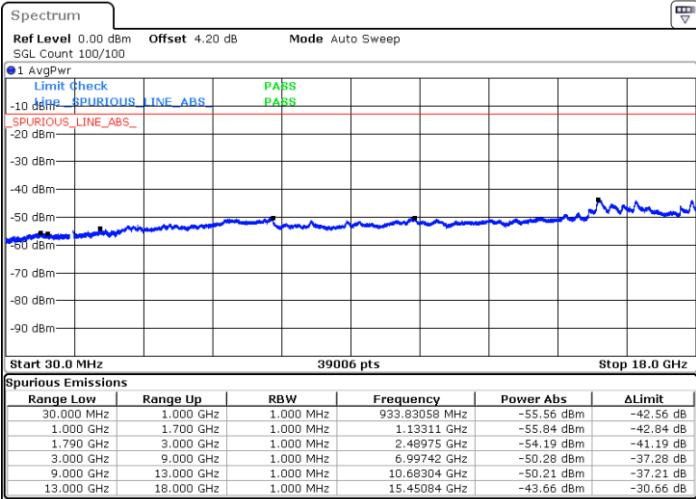


Date: 14.JAN.2021 06:01:52



Date: 14.JAN.2021 06:07:34

Highest Channel / 1RB



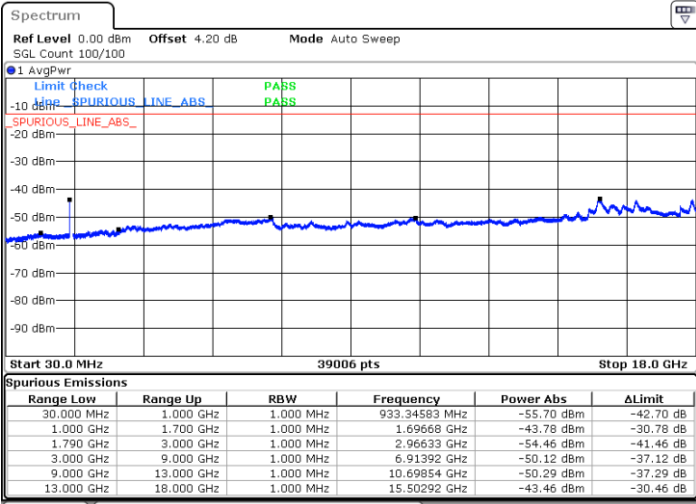
Date: 14.JAN.2021 06:09:56



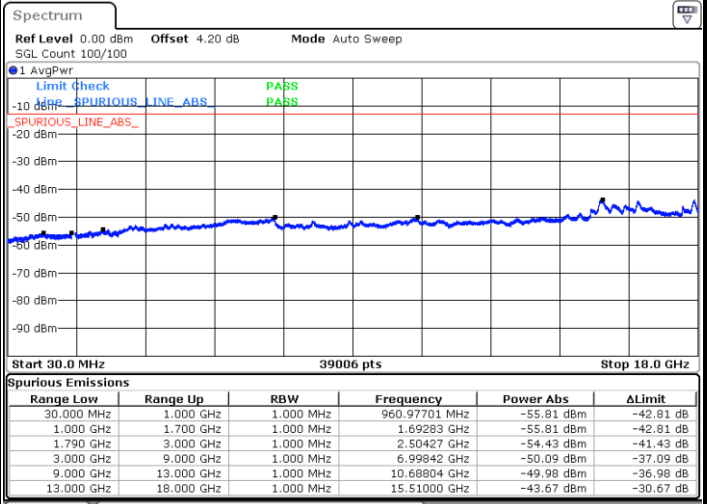
FR1 n66 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

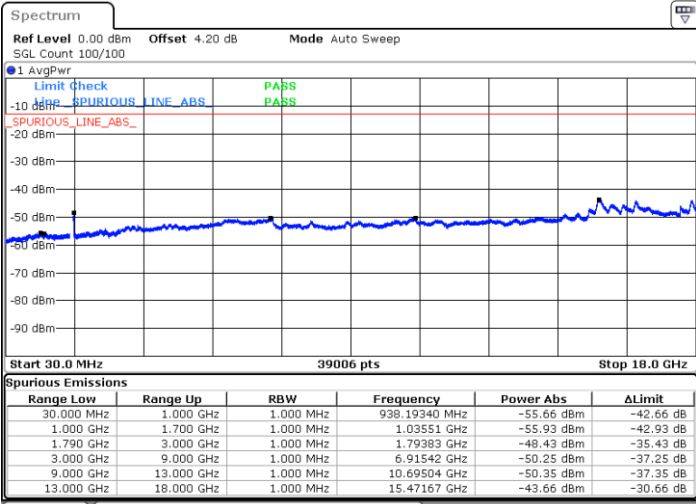


Date: 14.JAN.2021 05:14:02



Date: 14.JAN.2021 05:25:09

Highest Channel / 1RB



Date: 14.JAN.2021 05:34:12