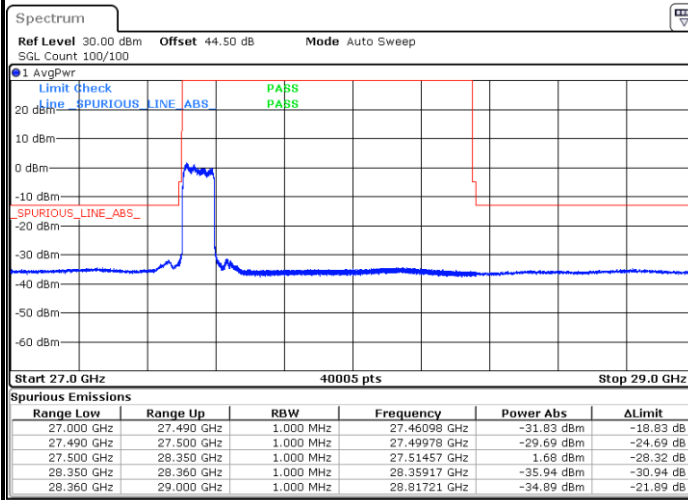




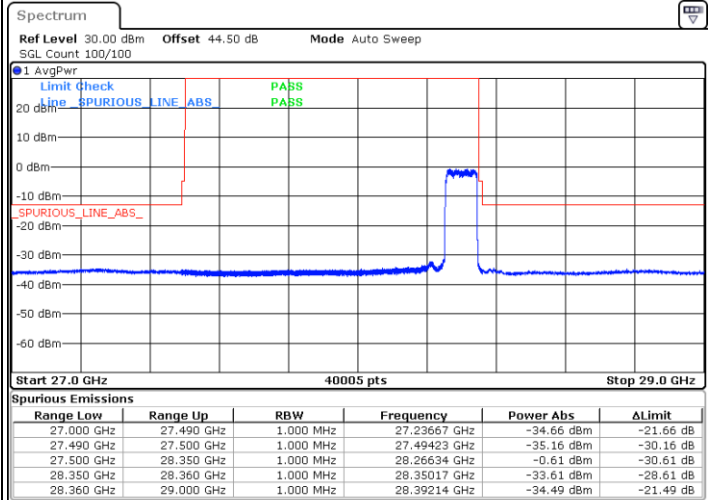
DFT-s-OFDM Module 0

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / Full RB

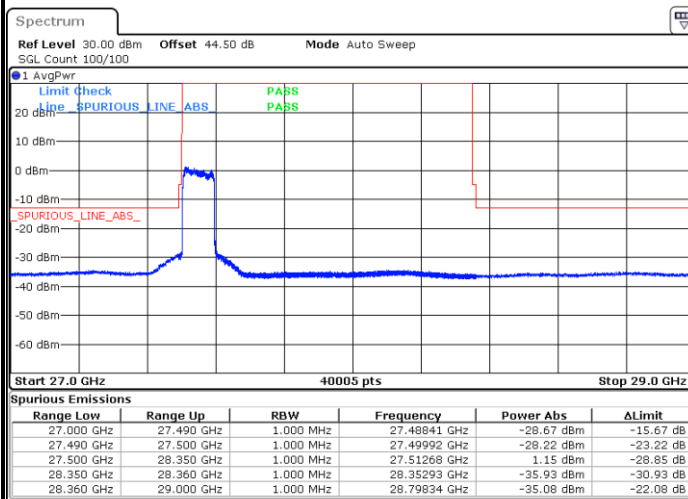


Highest Band Edge / Full RB

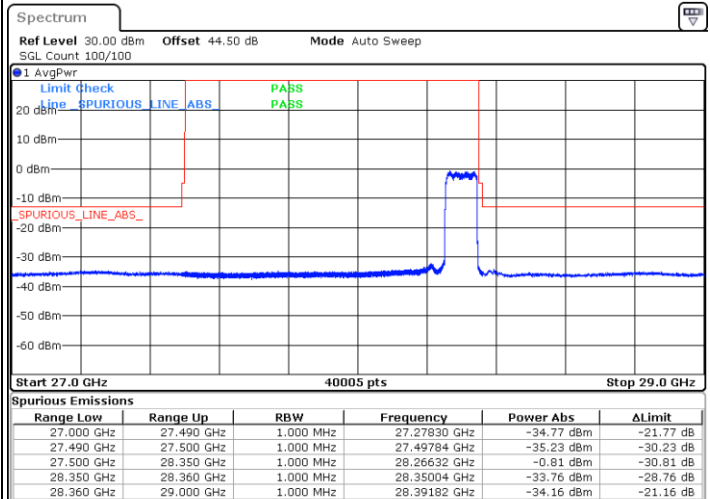


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

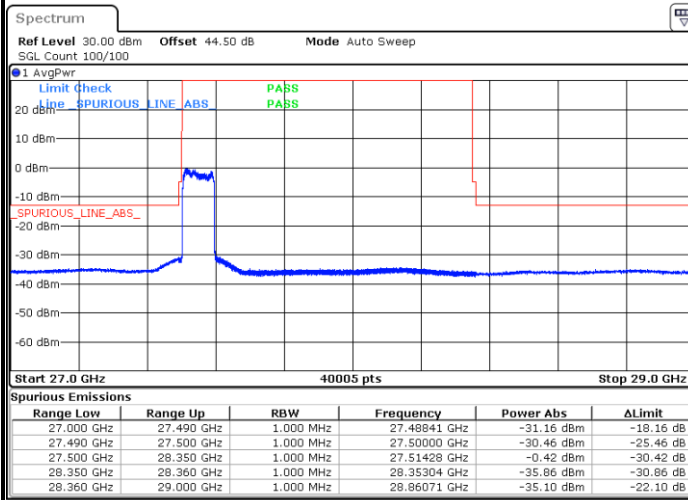




DFT-s-OFDM Module 0

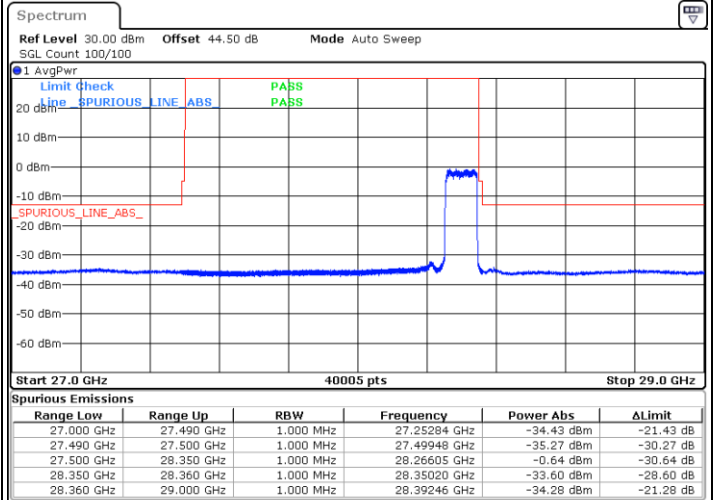
NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB



Date: 10.JUL.2020 23:24:50

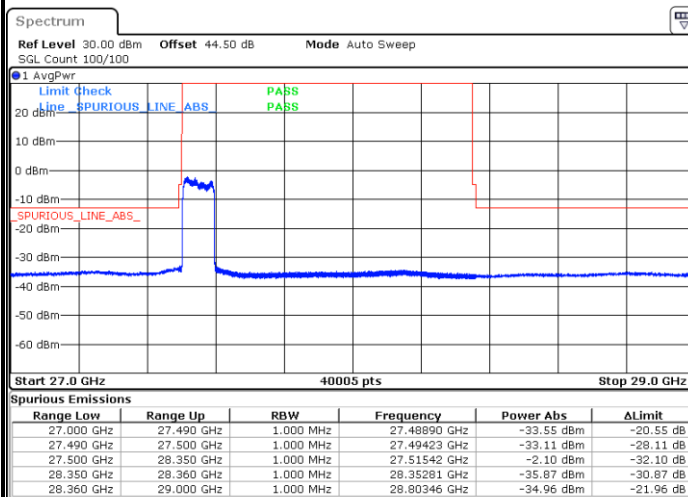
Highest Band Edge / Full RB



Date: 11.JUL.2020 19:01:54

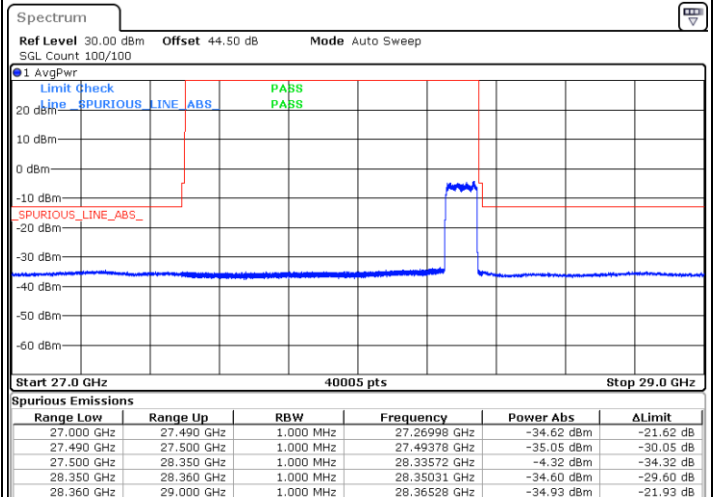
NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Date: 10.JUL.2020 23:22:47

Highest Band Edge / Full RB



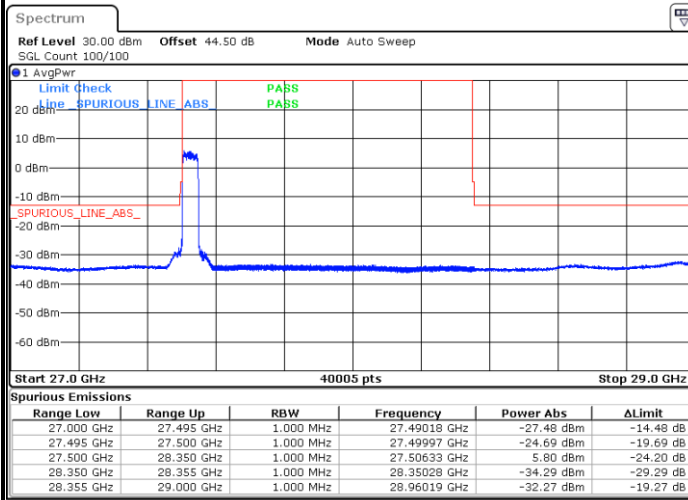
Date: 11.JUL.2020 19:04:46



DFT-s-OFDM Module 1

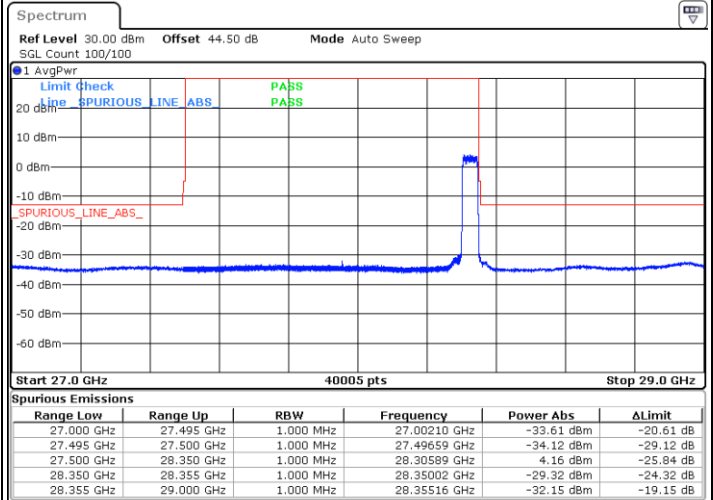
NR Band n261 / 50MHz / BPSK

Lowest Band Edge / Full RB



Date: 13.JUL.2020 18:59:03

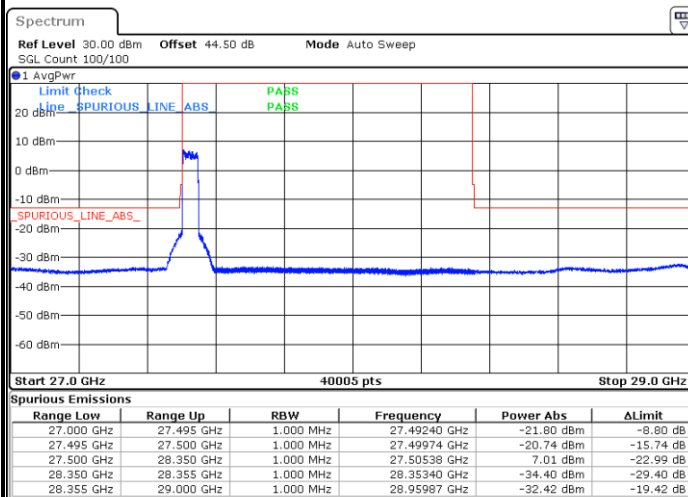
Highest Band Edge / Full RB



Date: 14.JUL.2020 02:15:32

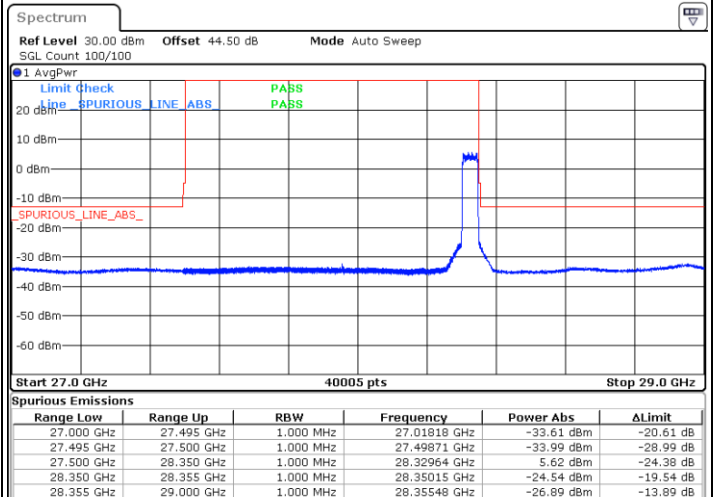
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



Date: 13.JUL.2020 18:55:05

Highest Band Edge / Full RB



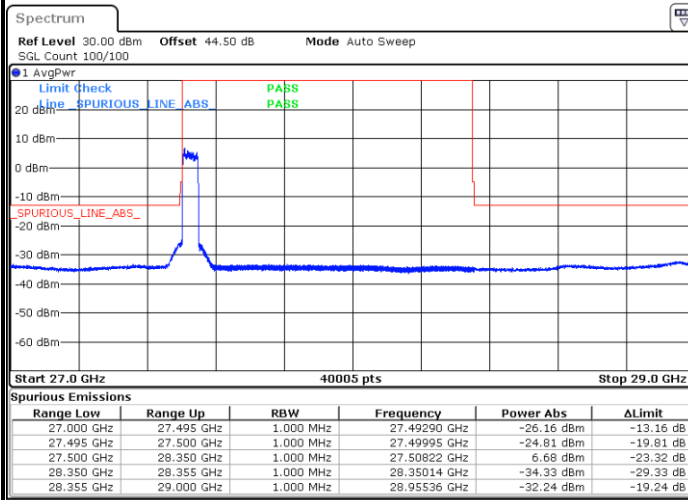
Date: 14.JUL.2020 02:09:03



DFT-s-OFDM Module 1

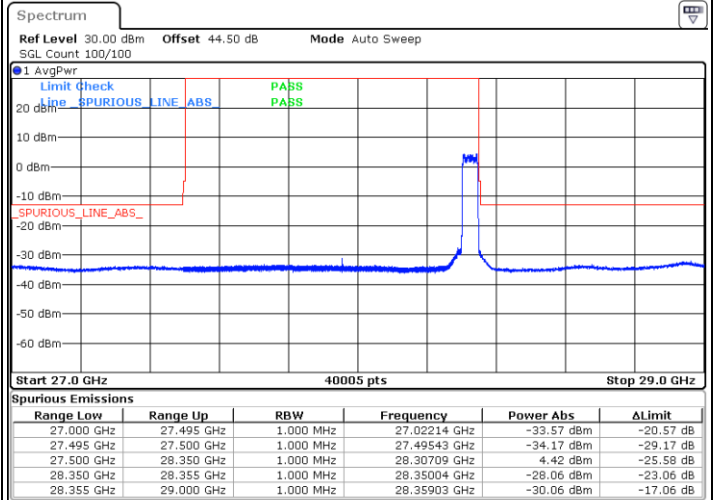
NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13.JUL.2020 18:56:31

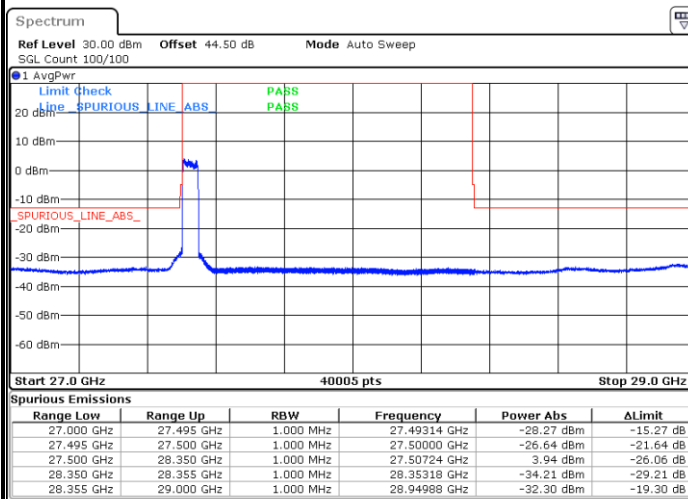
Highest Band Edge / Full RB



Date: 14.JUL.2020 02:11:11

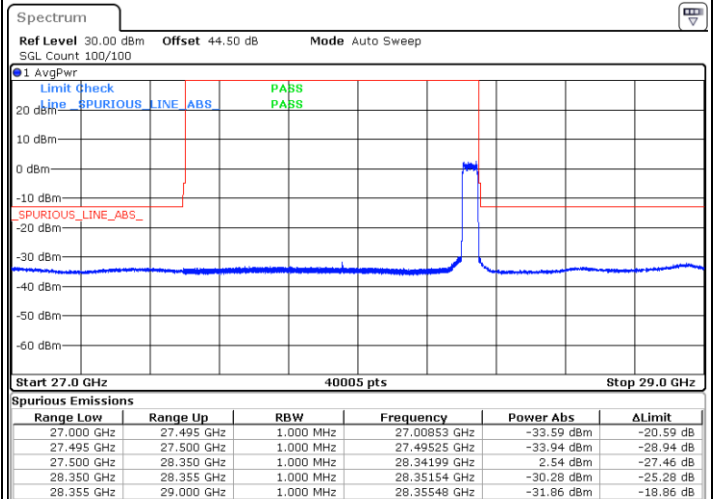
NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / Full RB



Date: 13.JUL.2020 18:57:51

Highest Band Edge / Full RB



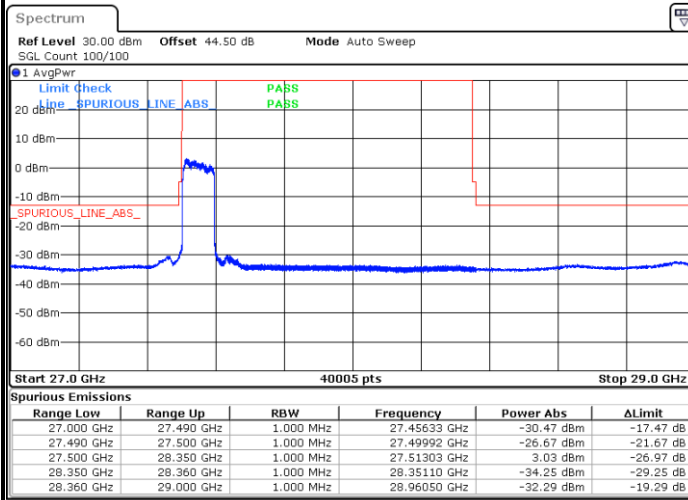
Date: 14.JUL.2020 02:13:27



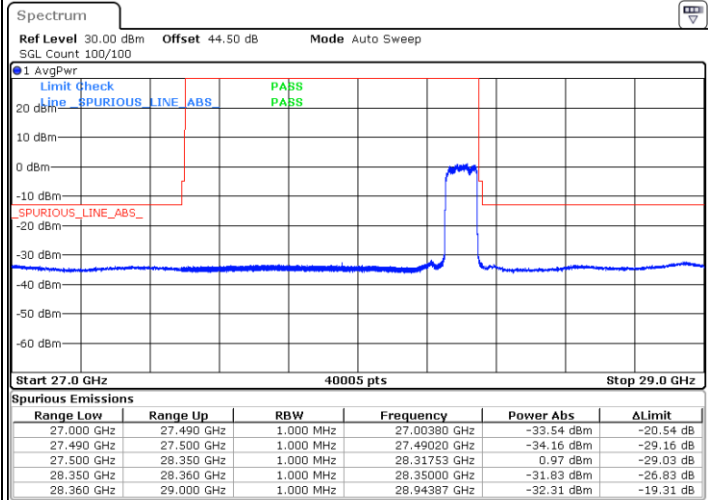
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / Full RB

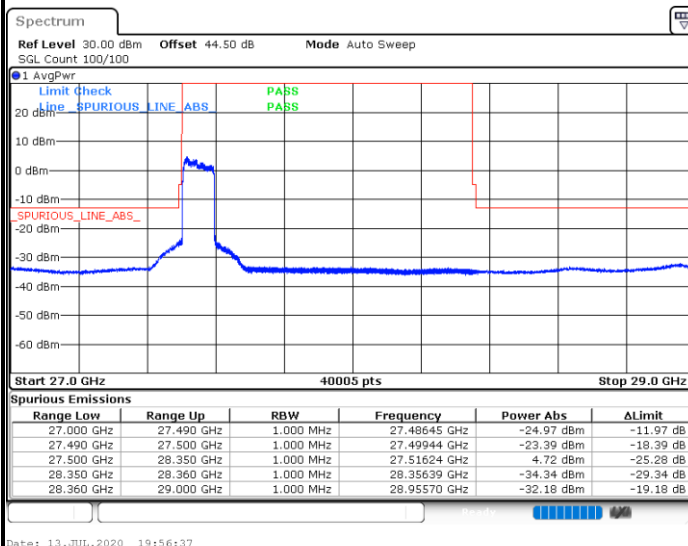


Highest Band Edge / Full RB

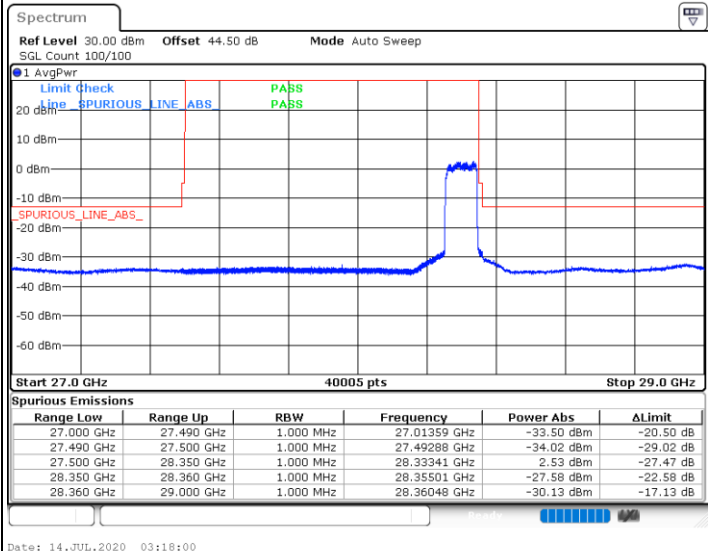


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

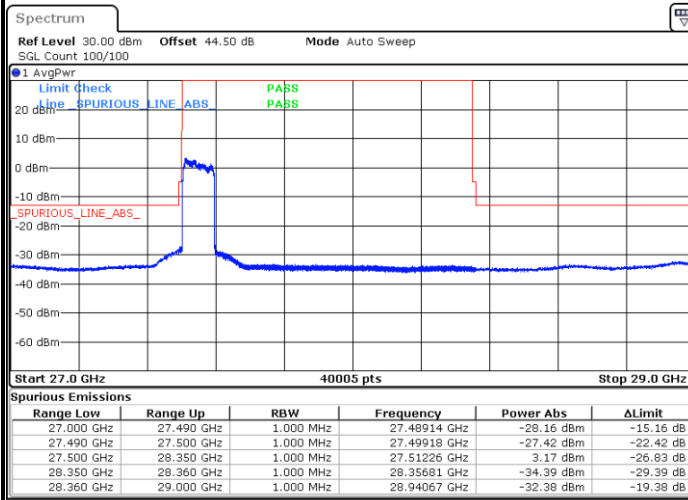




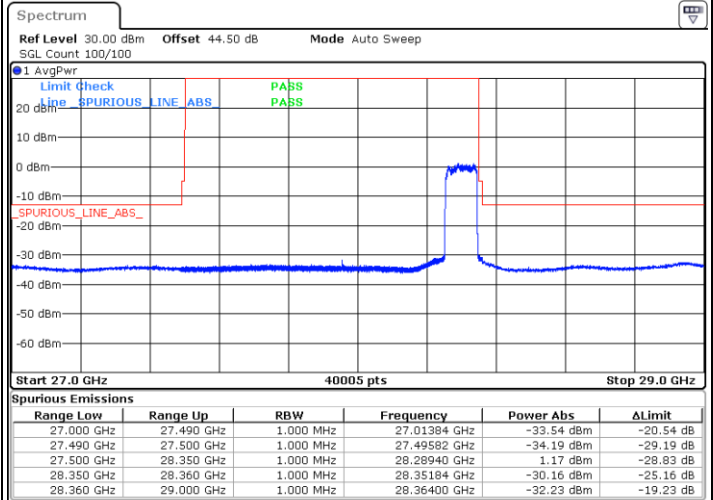
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB

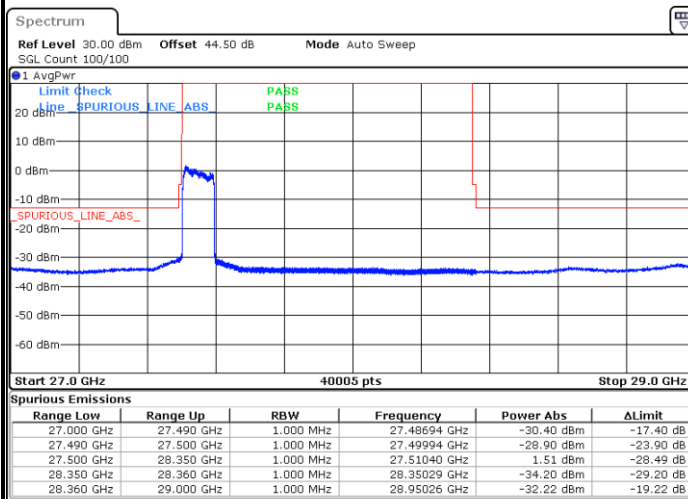


Highest Band Edge / Full RB

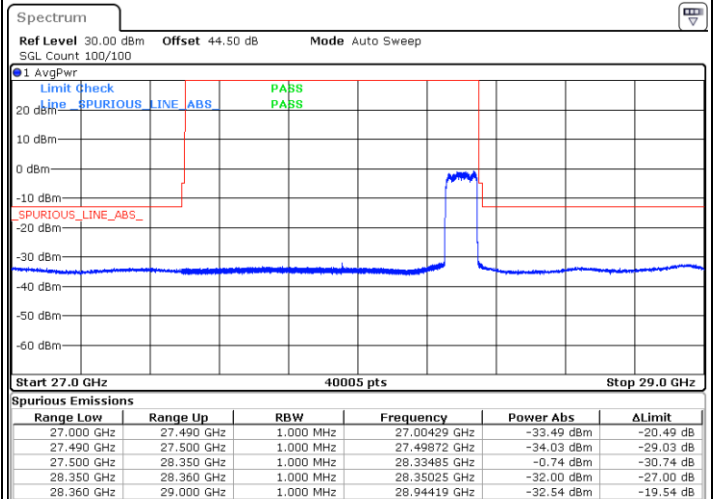


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

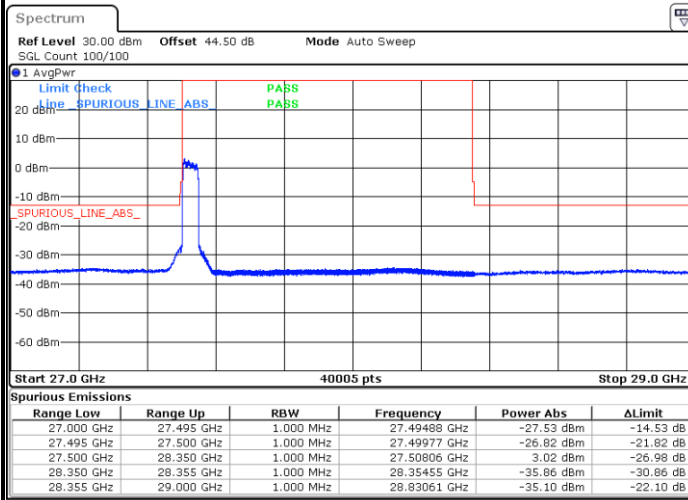




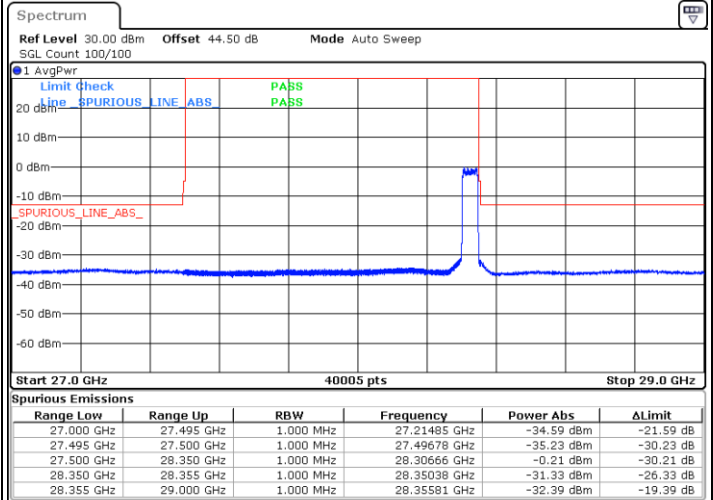
CP-OFDM Module 0

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

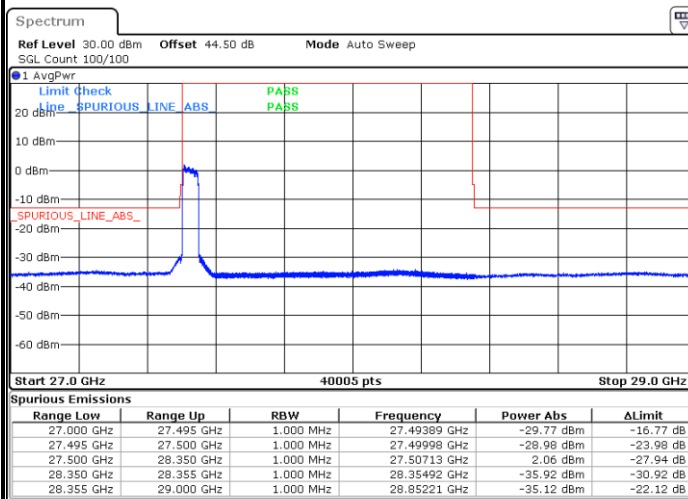


Highest Band Edge / Full RB

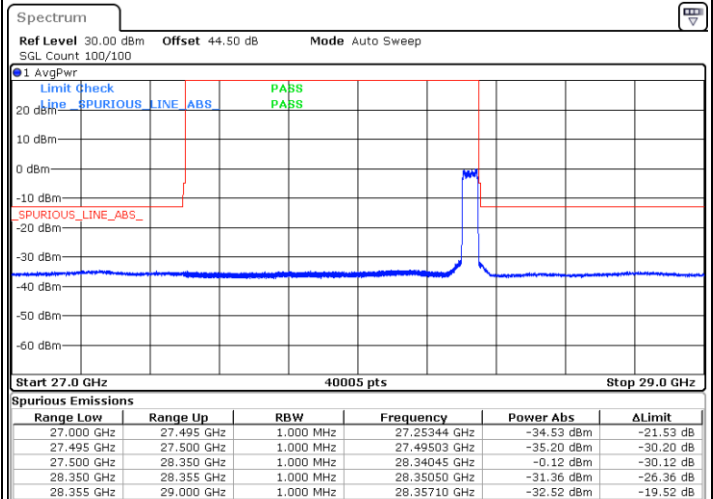


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

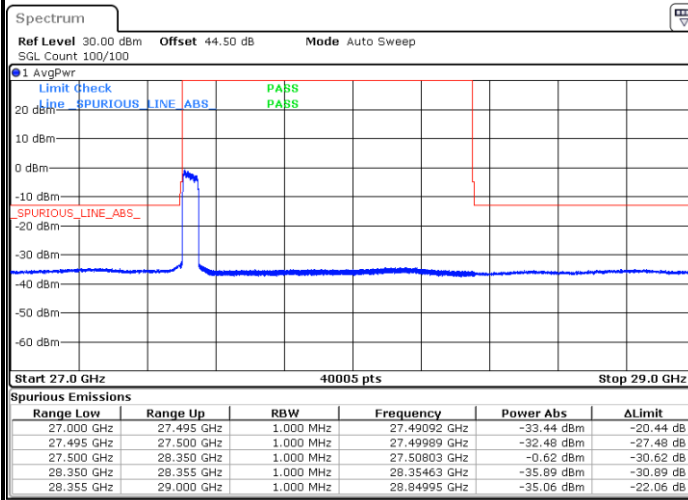




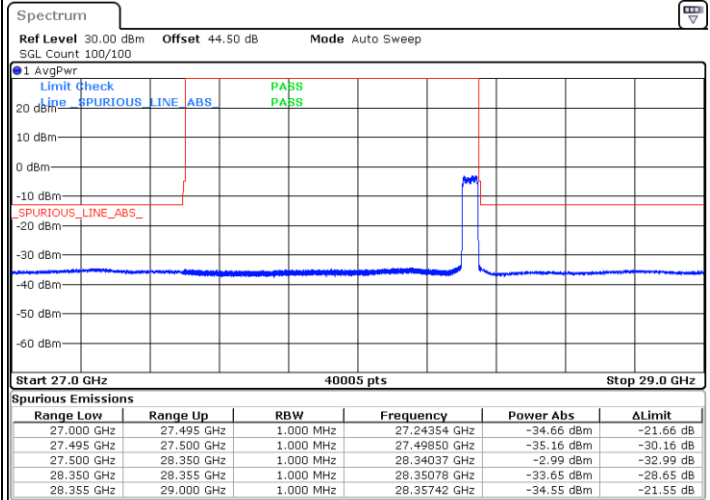
CP-OFDM Module 0

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / Full RB

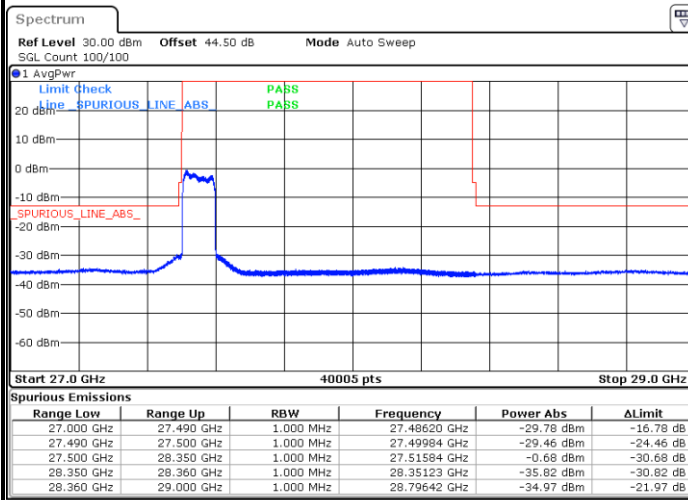


Highest Band Edge / Full RB

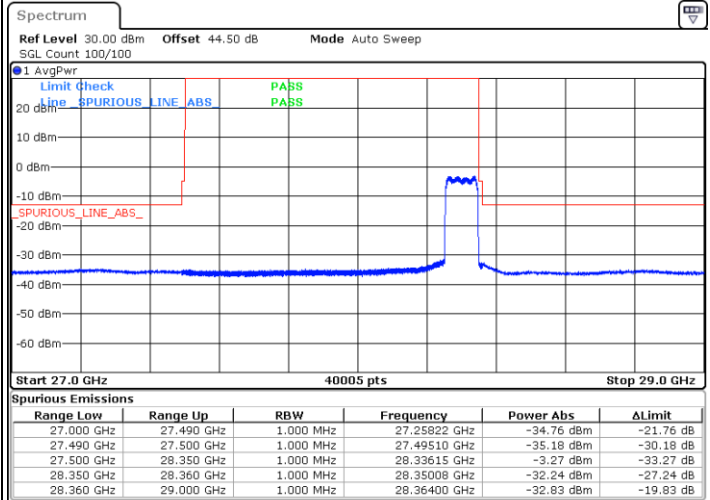


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

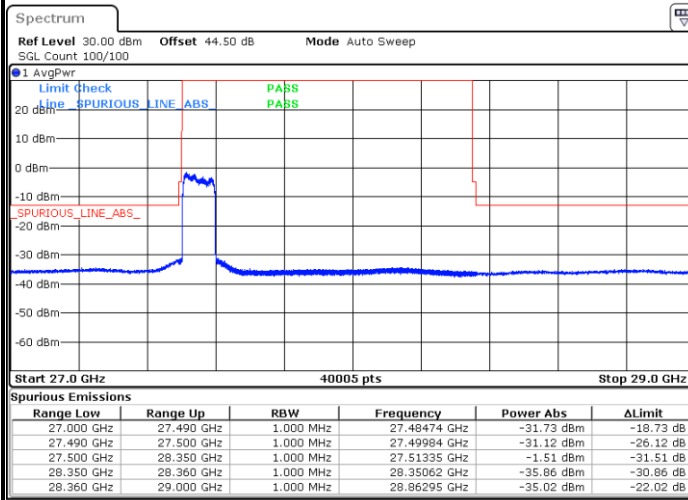




CP-OFDM Module 0

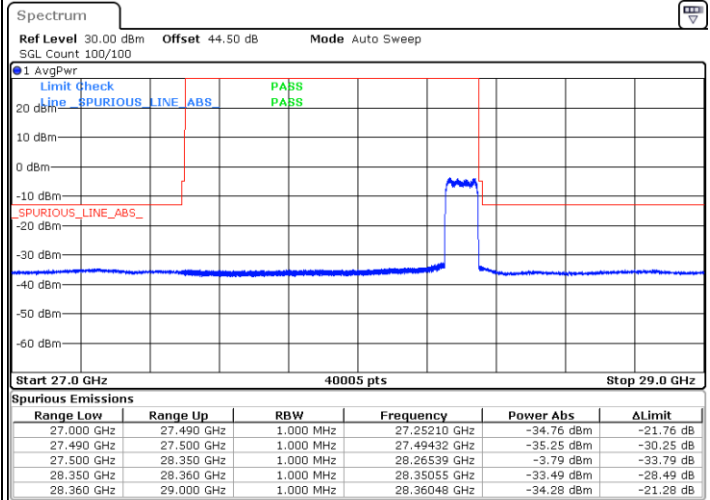
NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB



Date: 10.JUL.2020 23:39:50

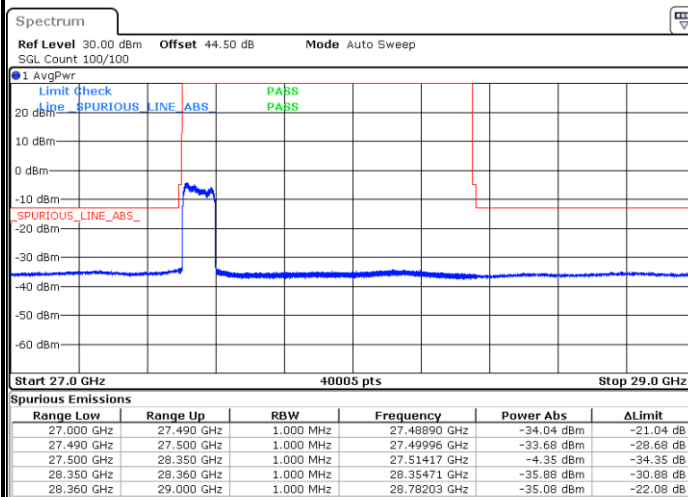
Highest Band Edge / Full RB



Date: 11.JUL.2020 19:31:31

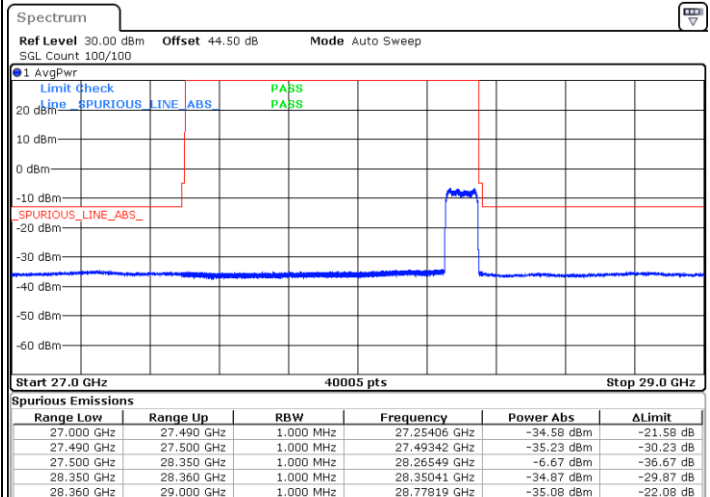
NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Date: 10.JUL.2020 23:41:20

Highest Band Edge / Full RB



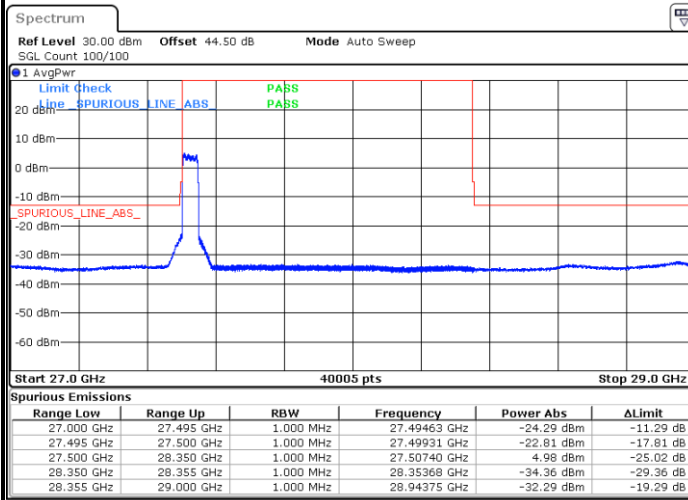
Date: 11.JUL.2020 19:29:22



CP-OFDM Module 1

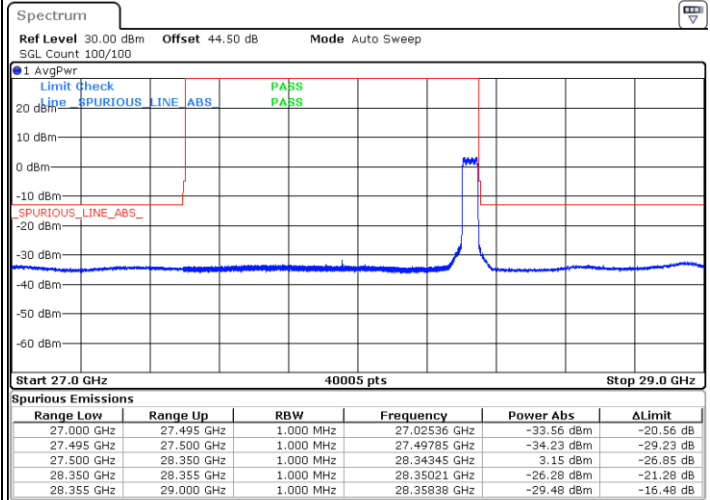
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



Date: 13.JUL.2020 19:36:47

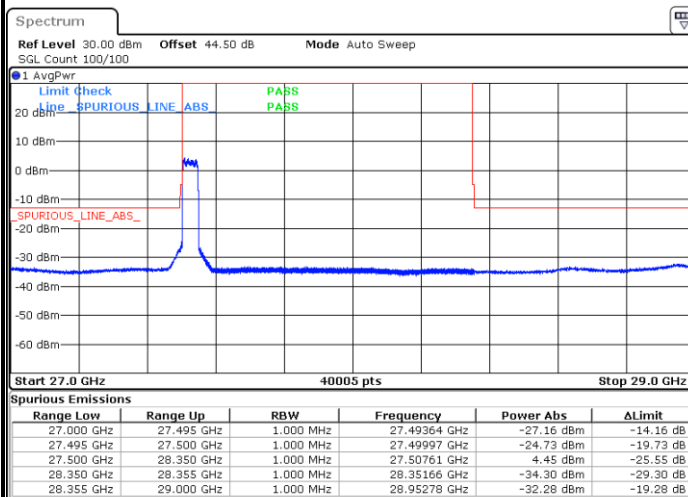
Highest Band Edge / Full RB



Date: 14.JUL.2020 02:34:12

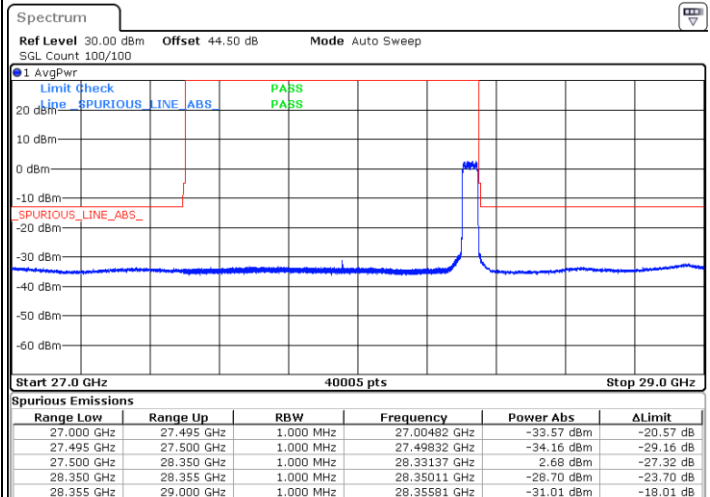
NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13.JUL.2020 19:35:14

Highest Band Edge / Full RB



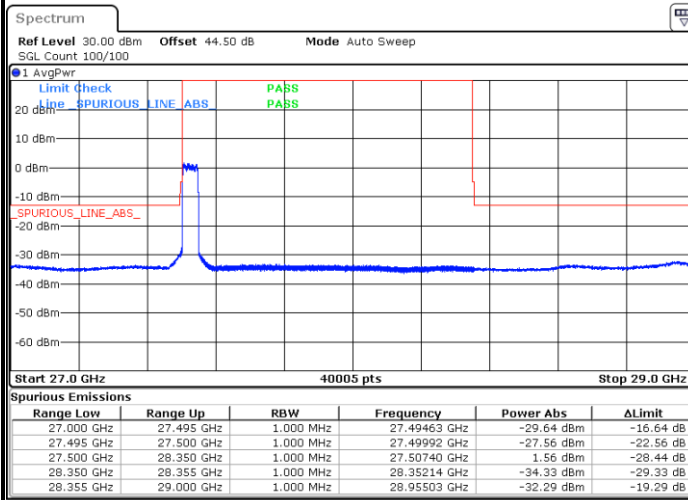
Date: 14.JUL.2020 02:32:43



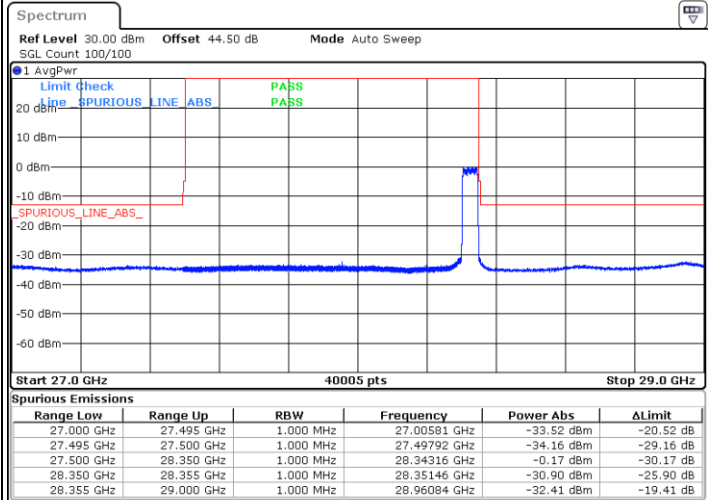
CP-OFDM Module 1

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / Full RB

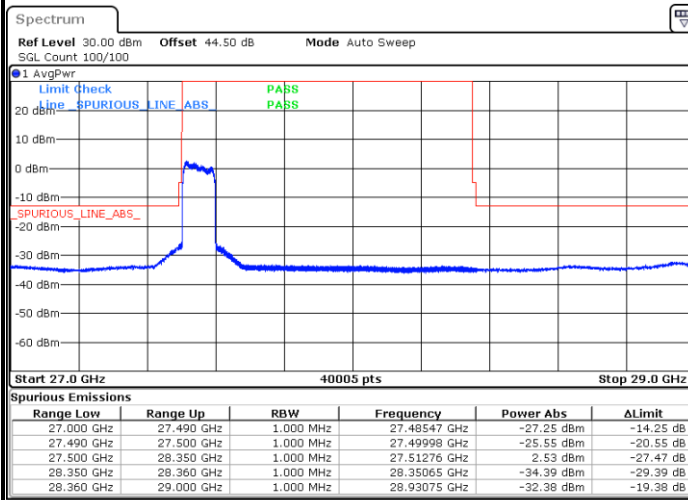


Highest Band Edge / Full RB

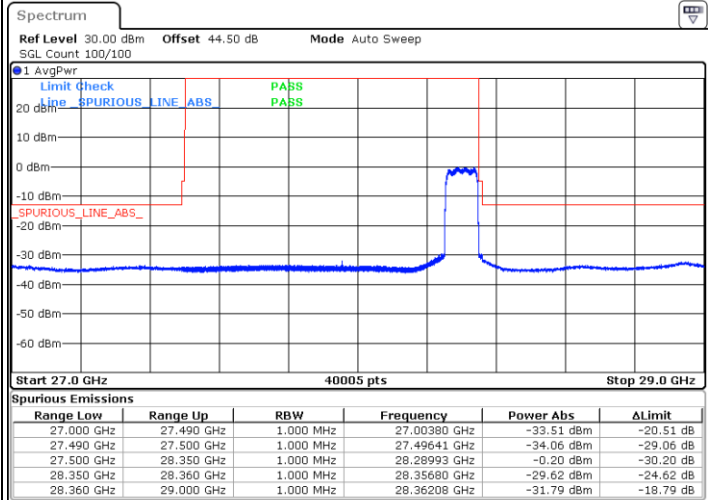


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

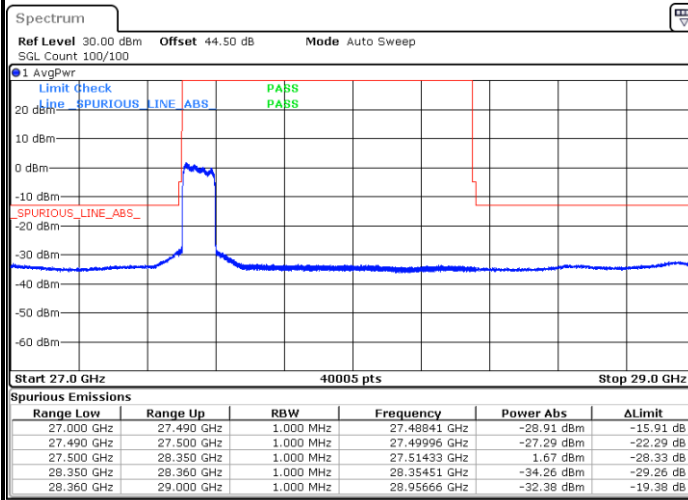




CP-OFDM Module 1

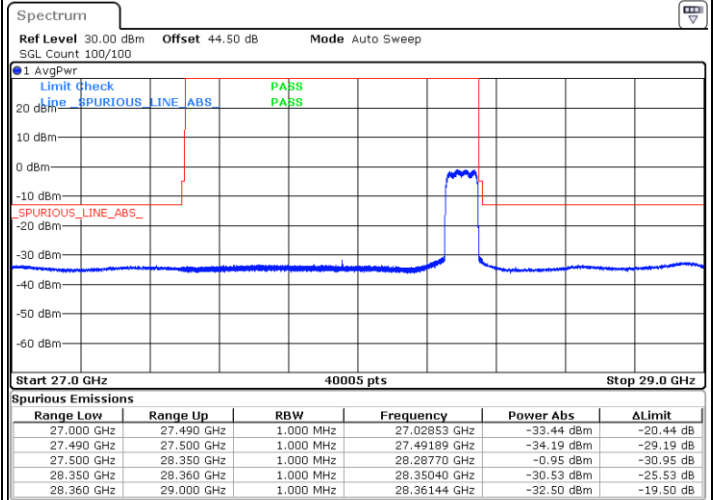
NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13.JUL.2020 21:17:54

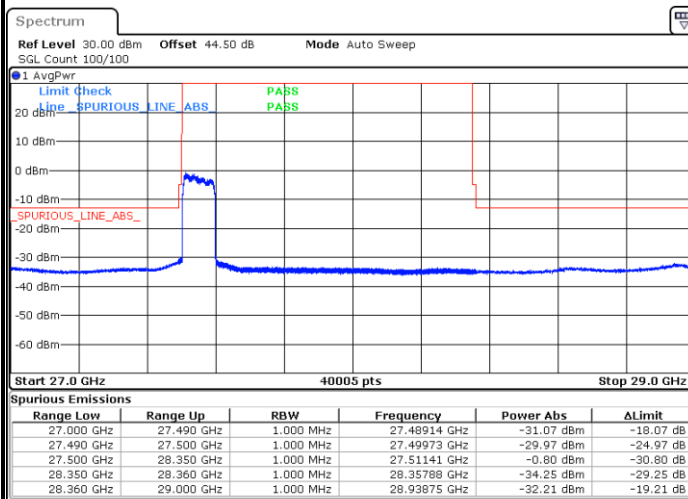
Highest Band Edge / Full RB



Date: 14.JUL.2020 03:44:26

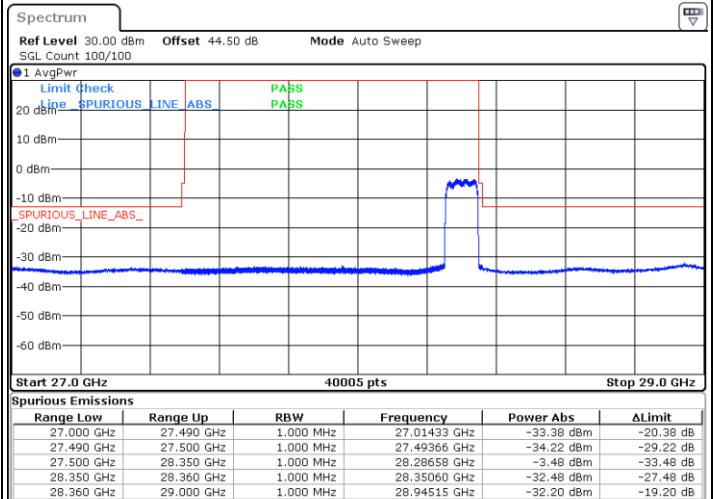
NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Date: 13.JUL.2020 21:15:17

Highest Band Edge / Full RB



Date: 14.JUL.2020 03:46:09

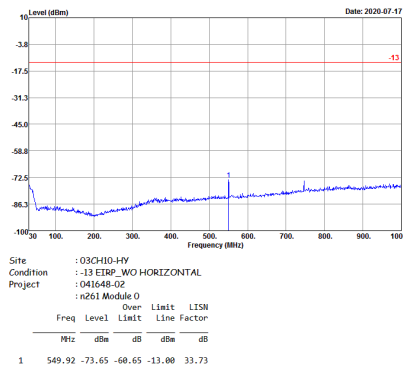
Spurious Emission

There is no significant spurious emission signal found for frequency started from 9kHz up to 18GHz.

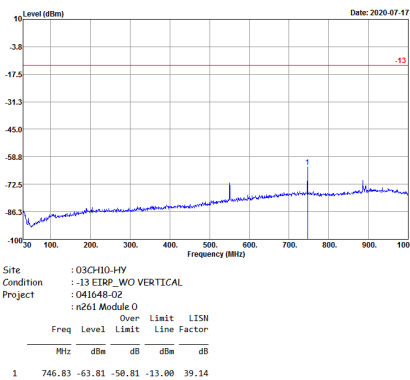
Only the noise floor is reported.

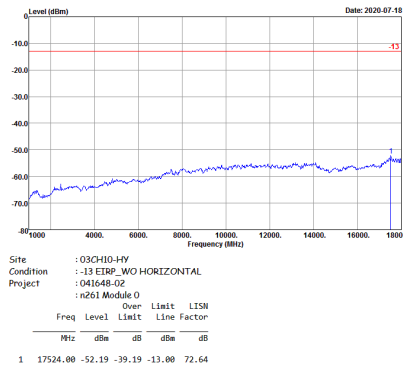
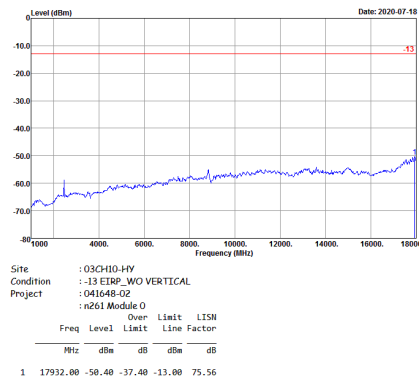
NR Band n261 (30MHz-1GHz)

Horizontal



Vertical



NR Band n261 (1GHz-18GHz)
Horizontal

Vertical


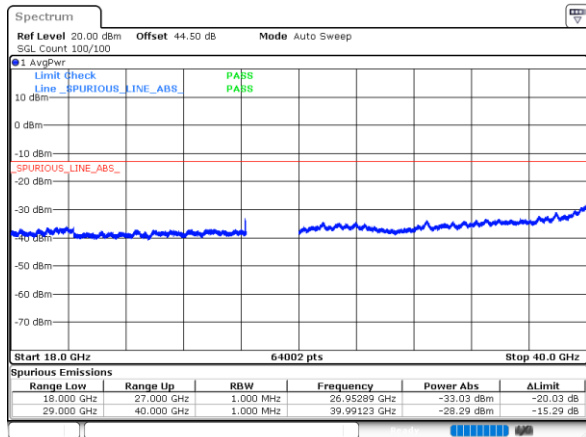


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

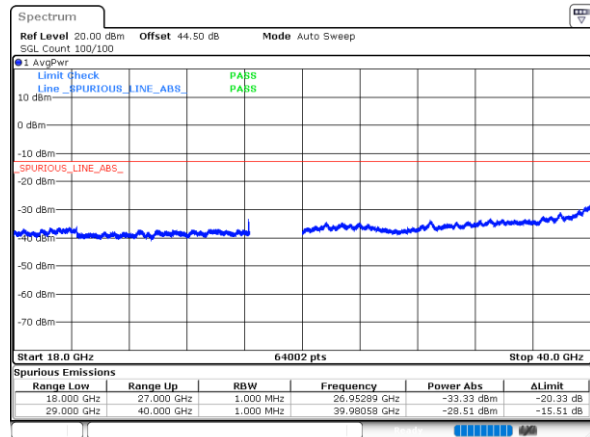
DFT-s-OFDM Module 0

NR Band n261 BPSK (18-40GHz)

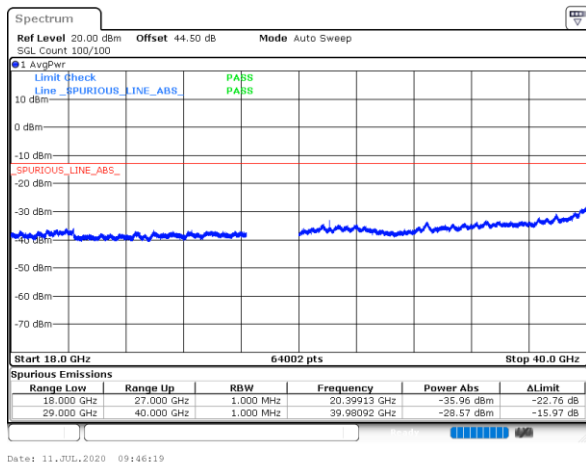
Lowest Channel / 50MHz



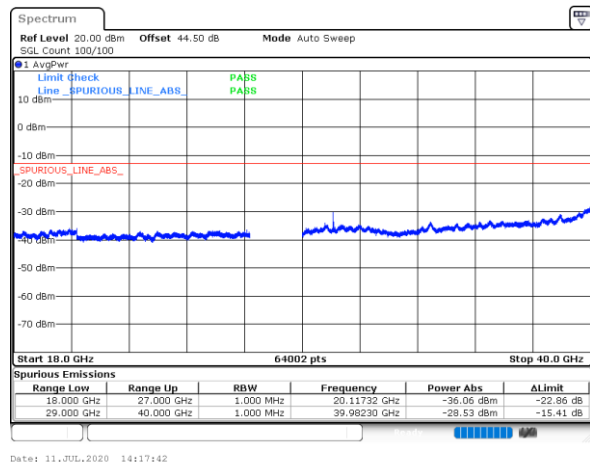
Lowest Channel / 100MHz



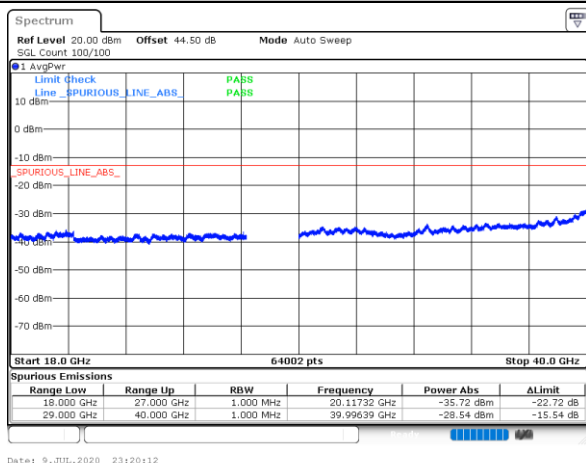
Middle Channel / 50MHz



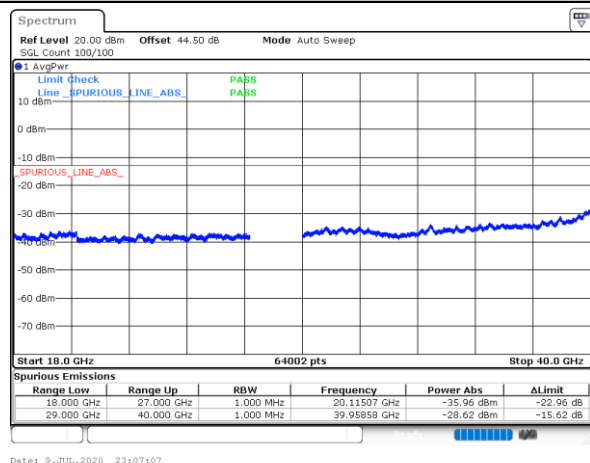
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

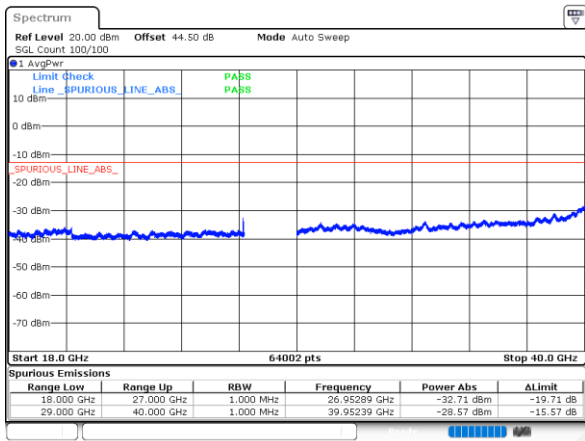




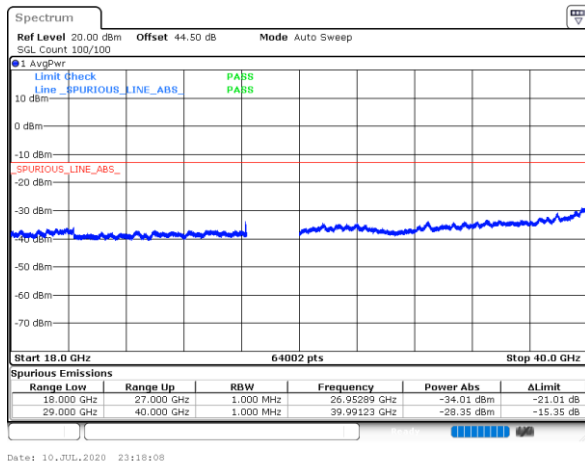
DFT-s-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

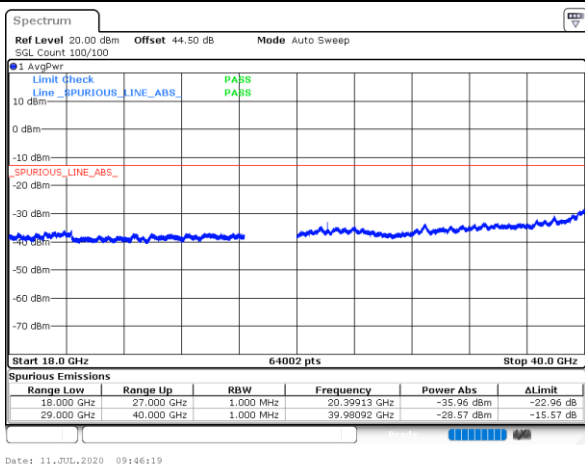
Lowest Channel / 50MHz



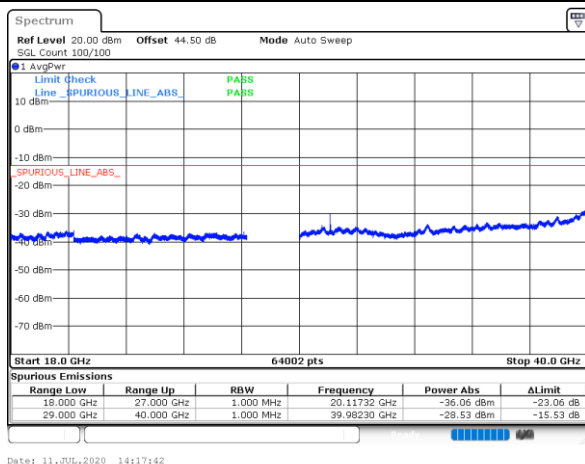
Lowest Channel / 100MHz



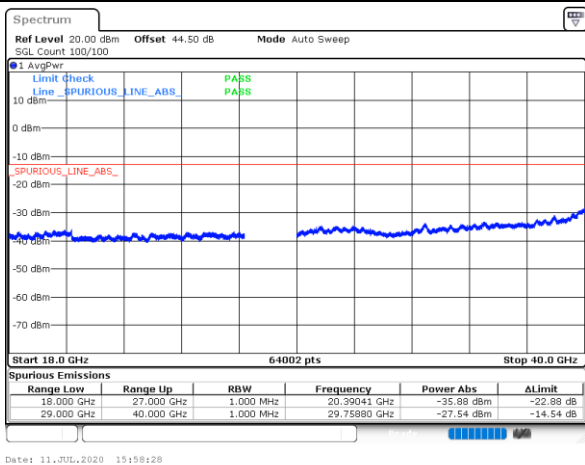
Middle Channel / 50MHz



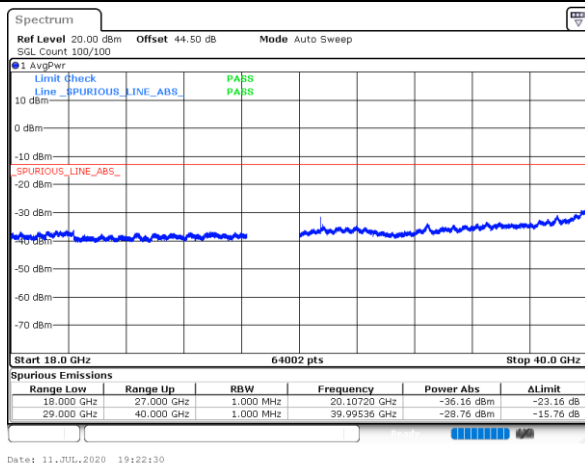
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

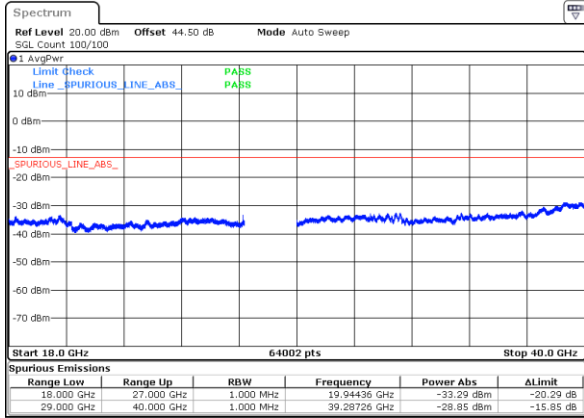




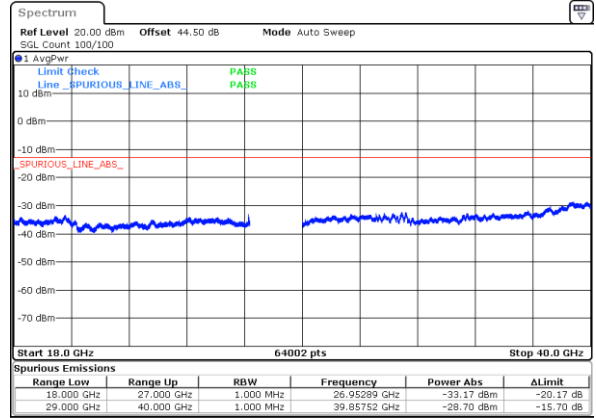
DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)

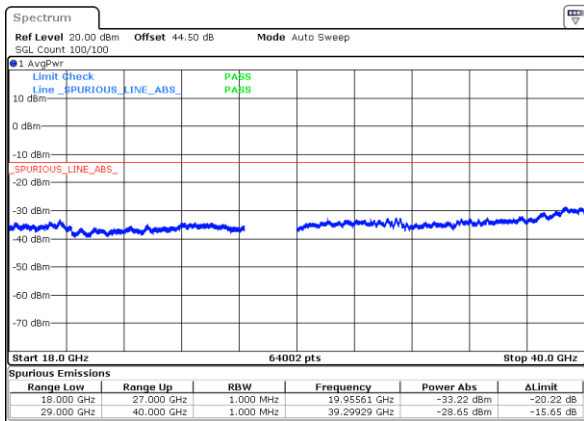
Lowest Channel / 50MHz



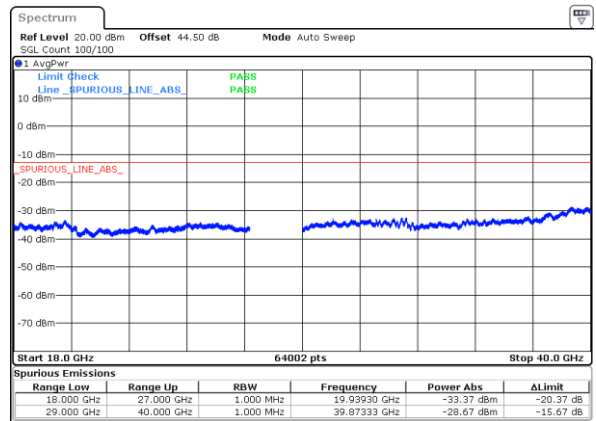
Lowest Channel / 100MHz



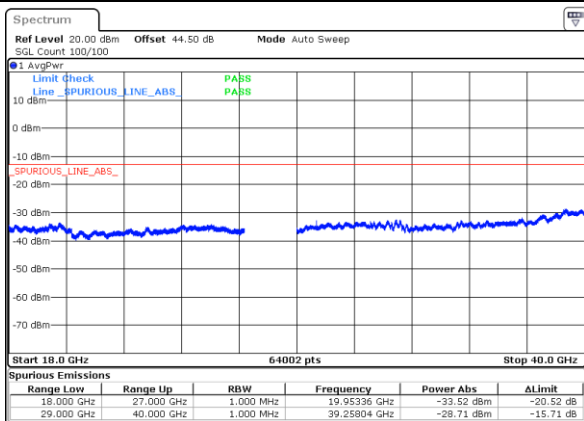
Middle Channel / 50MHz



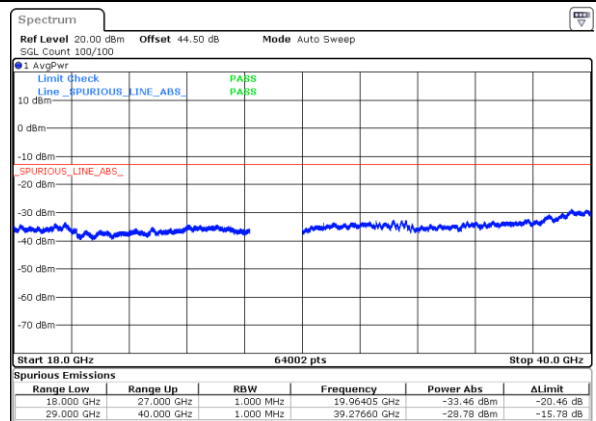
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

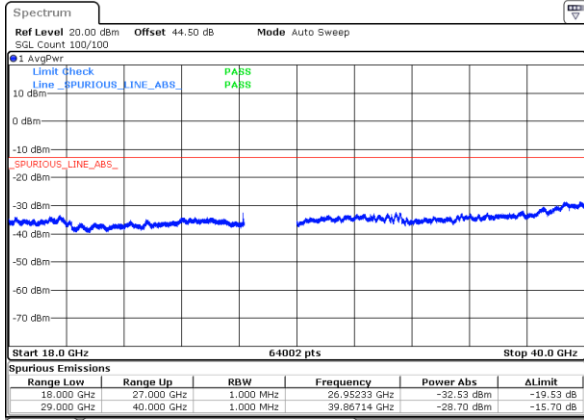




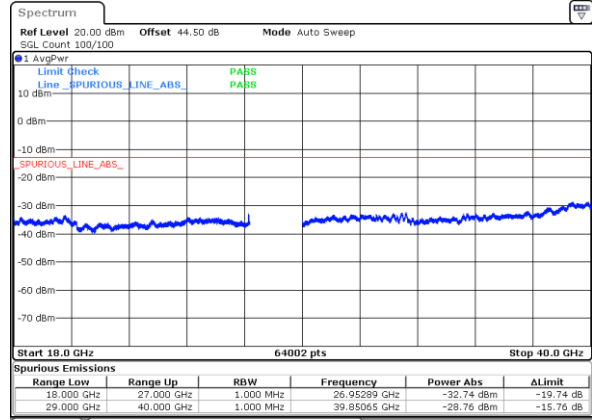
DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

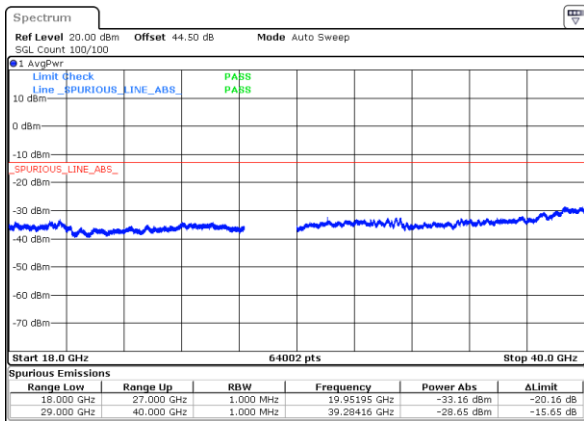
Lowest Channel / 50MHz



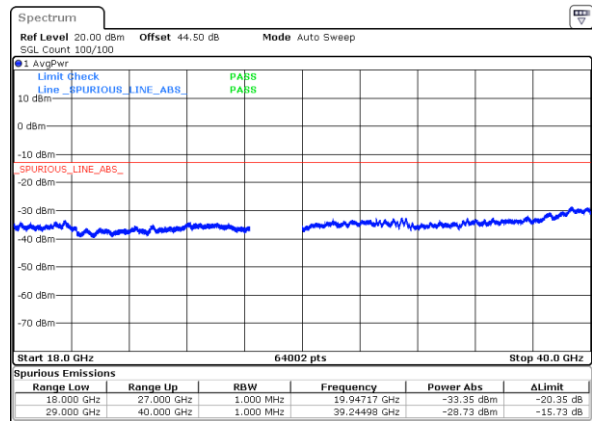
Lowest Channel / 100MHz



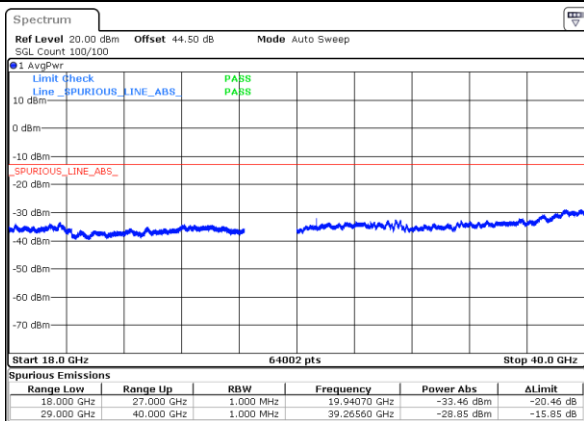
Middle Channel / 50MHz



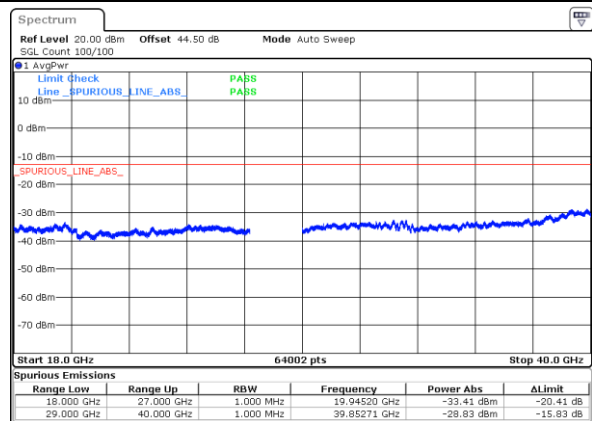
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

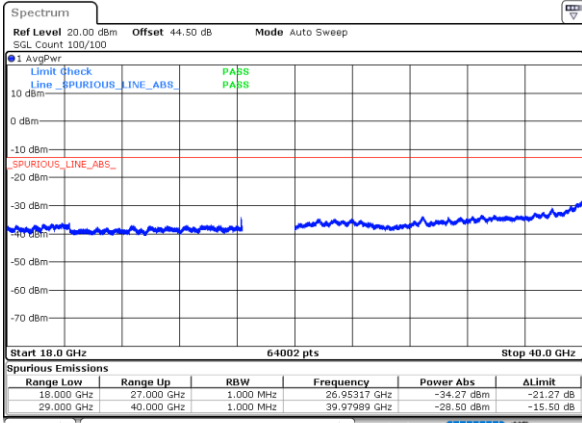




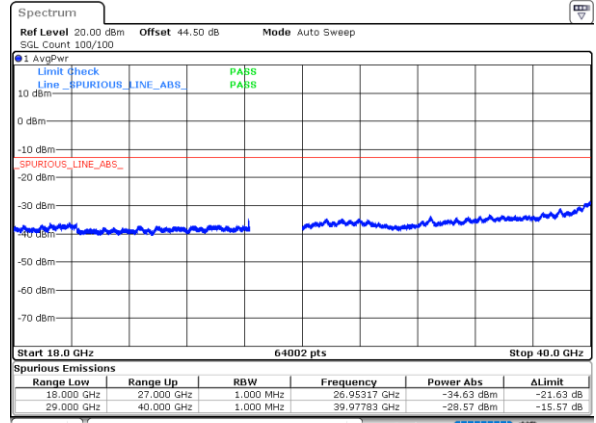
CP-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

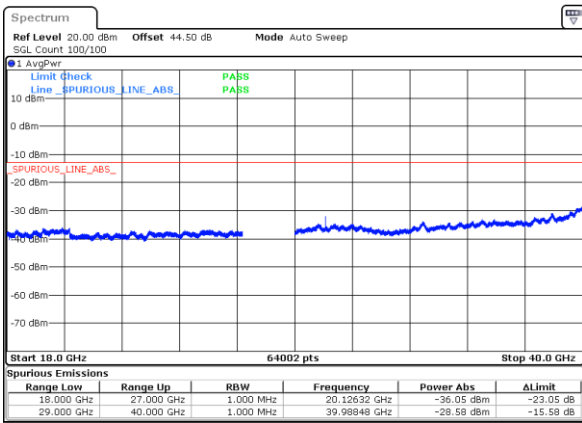
Lowest Channel / 50MHz



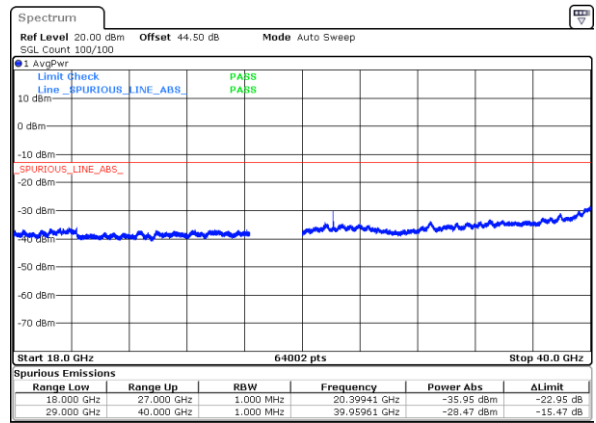
Lowest Channel / 100MHz



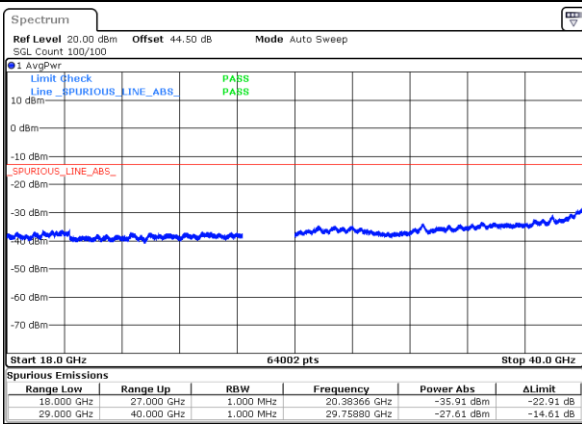
Middle Channel / 50MHz



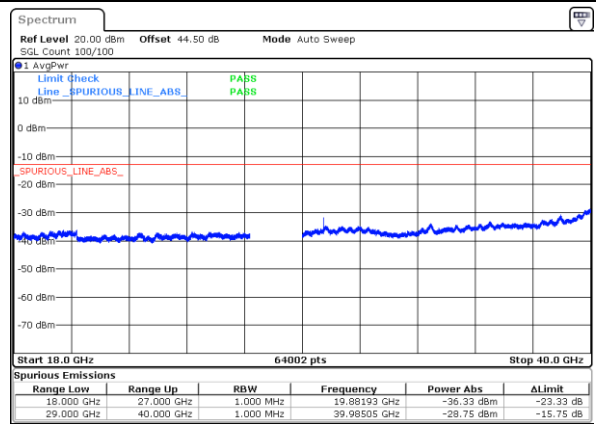
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

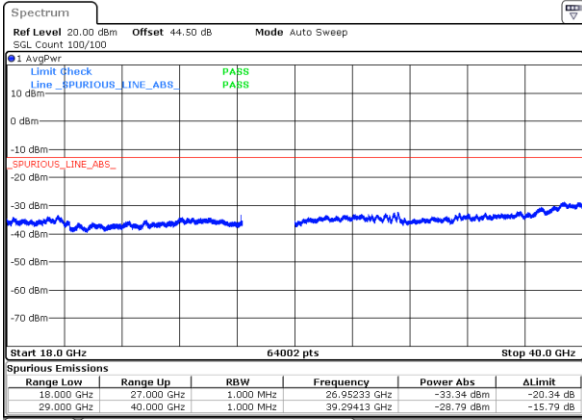




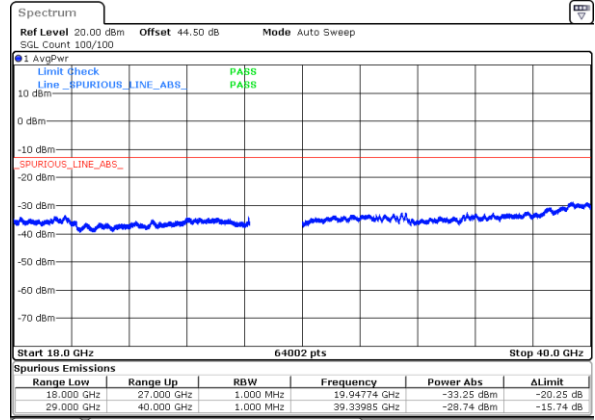
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

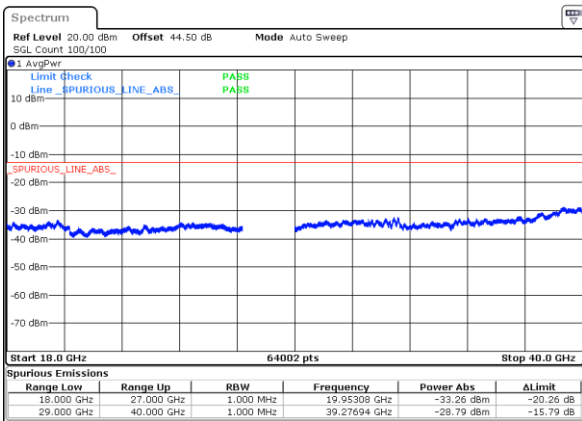
Lowest Channel / 50MHz



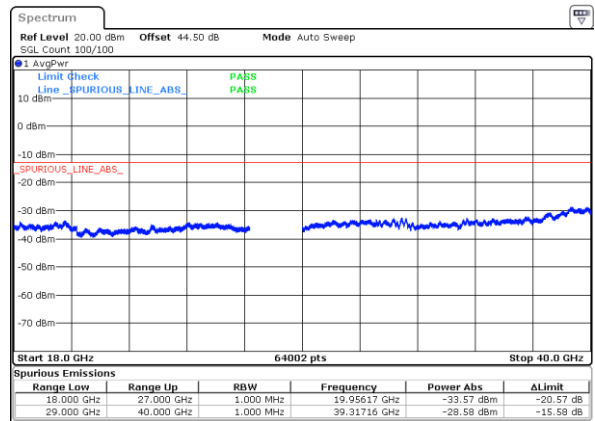
Lowest Channel / 100MHz



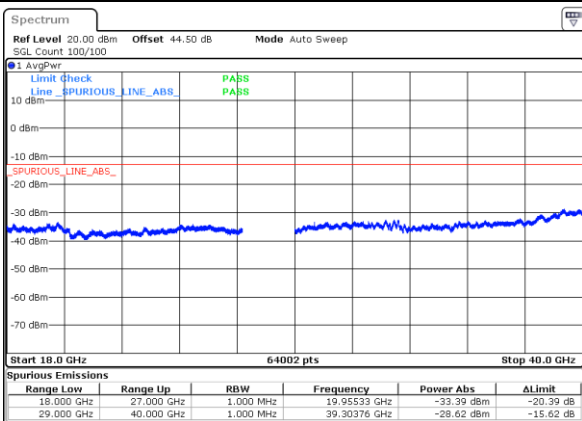
Middle Channel / 50MHz



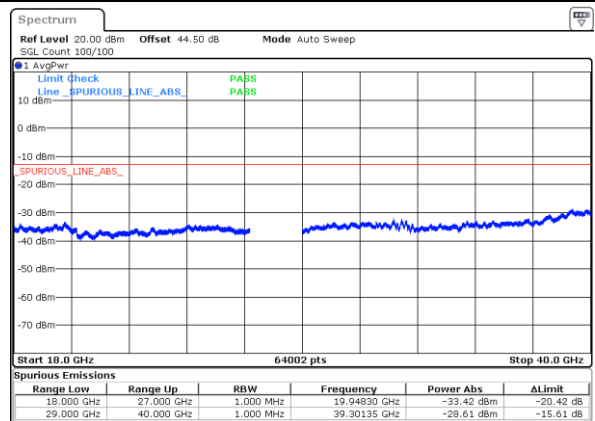
Middle Channel / 100MHz



Highest Channel / 50MHz

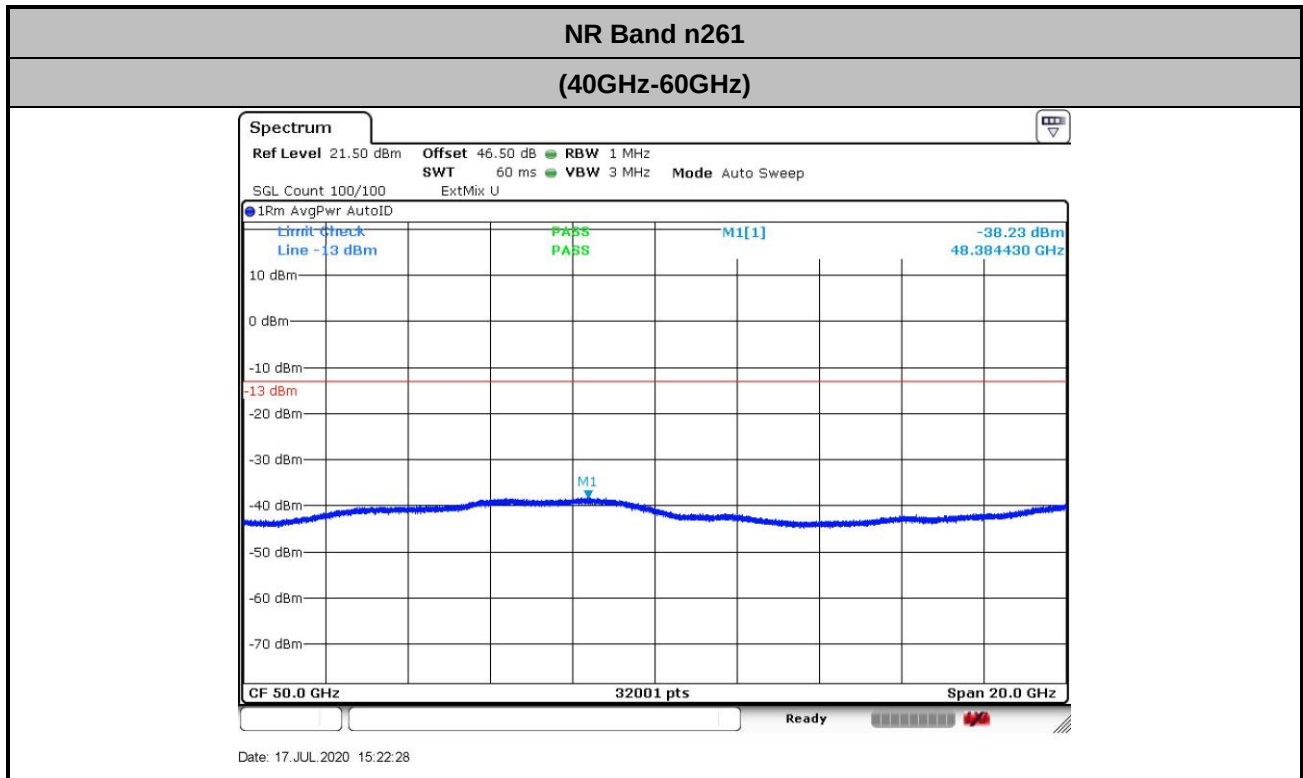


Highest Channel / 100MHz

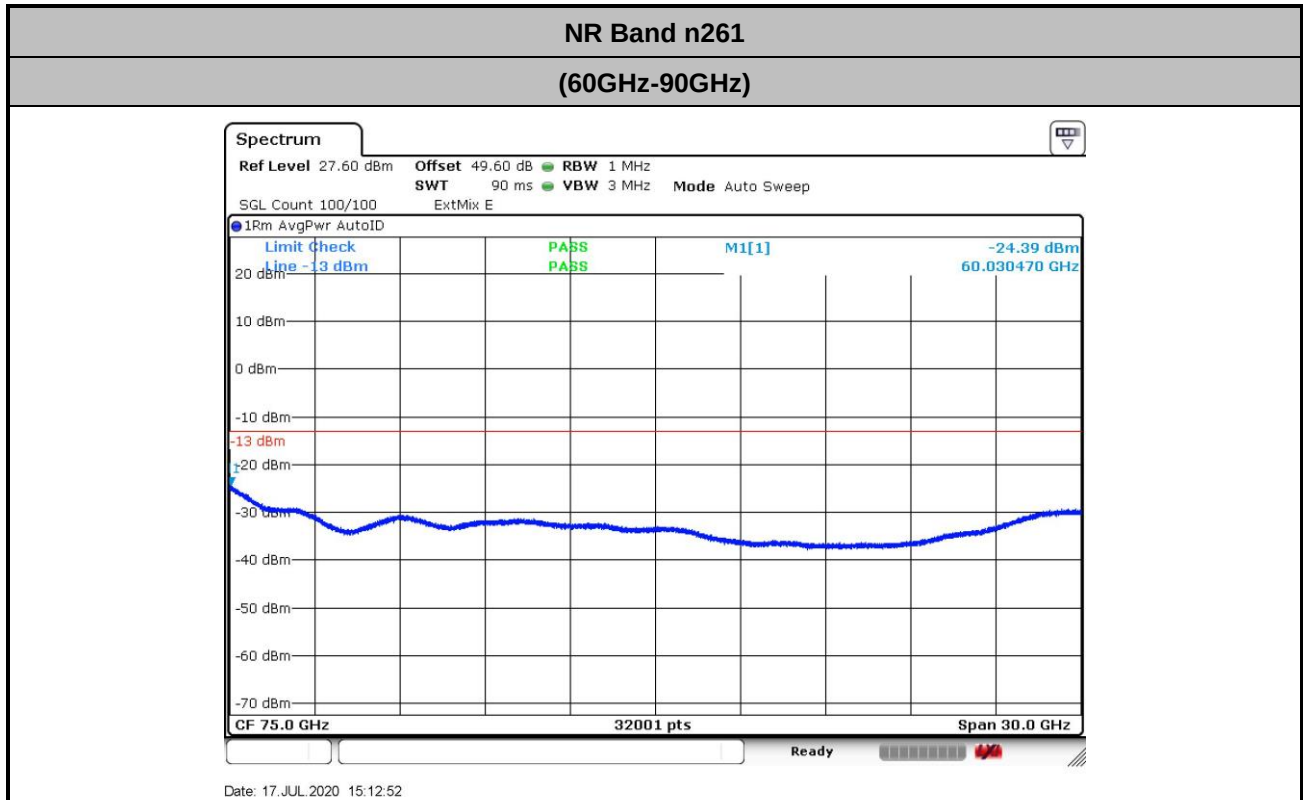




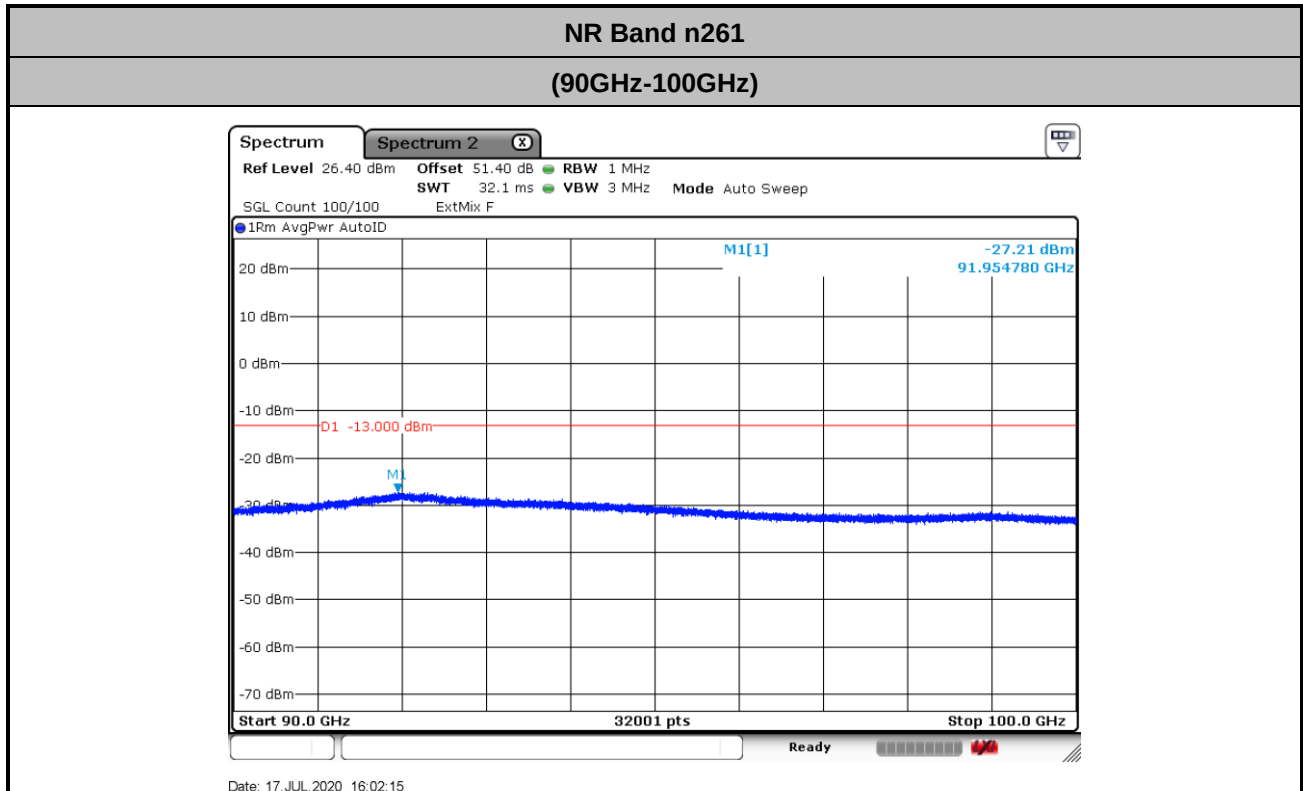
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.1 + 2.2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 2.2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 49.0 + 2.2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)} \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	27.92494445	56.115	2.009	Pass
40	Normal Voltage	27.92496794	32.617	1.168	
30	Normal Voltage	27.92499726	3.300	0.118	
20(Ref.)	Normal Voltage	27.92500056	0.000	0.000	
10	Normal Voltage	27.92507731	-76.752	2.749	
0	Normal Voltage	27.92512927	-128.707	4.609	
-10	Normal Voltage	27.92509611	-95.550	3.422	
-20	Normal Voltage	27.92504318	-42.616	1.526	
-30	Normal Voltage	27.92523418	-233.620	8.366	
20	Maximum Voltage	27.92493819	62.374	2.234	
20	Normal Voltage	27.92493387	66.694	2.388	
20	Battery End Point	27.92494249	58.075	2.080	

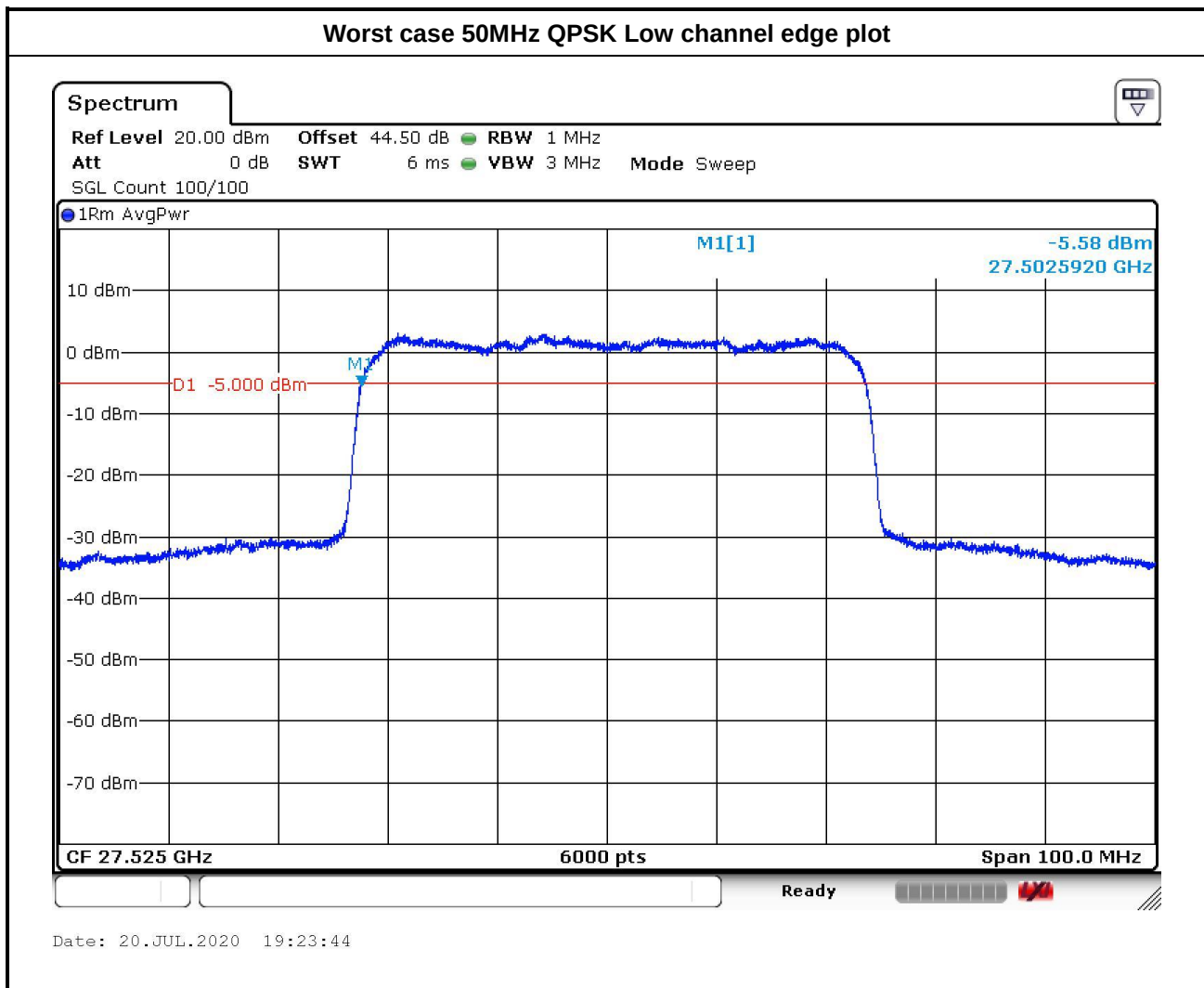
Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the operation band.
3. The test result at the next page provides confidence that the maximum frequency deviation will not lead to out of band operation during normal and extreme condition.



Channel Bandwidth	Low channel edge frequency close to -5dBm/MHz limit (Hz)	Freq. gap to the lower edge 27,500,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	27,502,592,000	2,592,000	233,620	Compliance
100MHz	27,504,250,000	4,250,000	233,620	Compliance

Channel Bandwidth	High channel edge frequency close to -5dBm/MHz limit (Hz)	Freq. gap to the lower edge 28,350,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	28,346,242,000	3,758,000	233,620	Compliance
100MHz	28,341,883,000	8,117,000	233,620	Compliance





NR Band n261 SISO

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.06	45.52	45.14	45.08	90.56	90.84	90.44	90.40
Middle CH	45.16	45.40	45.22	45.04	90.28	90.44	90.84	90.48
Highest CH	45.16	45.54	45.14	45.30	90.60	90.60	90.60	90.24

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.46	45.16	45.30	45.28	90.68	90.56	90.16	90.84
Middle CH	45.42	45.66	45.26	45.14	90.28	90.28	90.32	90.52
Highest CH	45.18	45.46	45.22	45.22	90.00	90.28	90.32	90.12

Mode	CP-OFDM Module 0 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.24	45.06	45.08	92.88	93.00	92.84
Middle CH	45.40	45.32	45.44	92.80	93.00	93.00
Highest CH	45.16	45.26	45.26	92.96	92.92	93.12

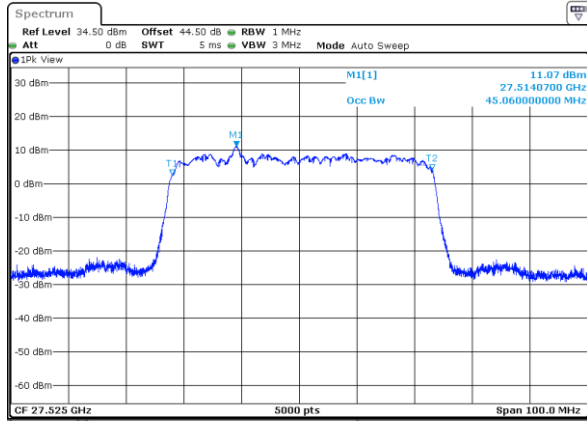
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.28	45.28	45.10	92.88	92.96	93.00
Middle CH	45.50	45.40	45.36	92.80	92.92	92.88
Highest CH	45.28	45.38	45.40	92.08	92.48	92.60



DFT-s-OFDM Module 0

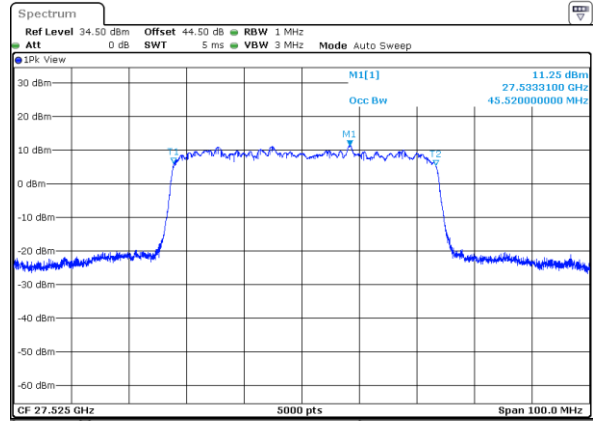
NR Band n261

Lowest Channel / 50MHz / BPSK



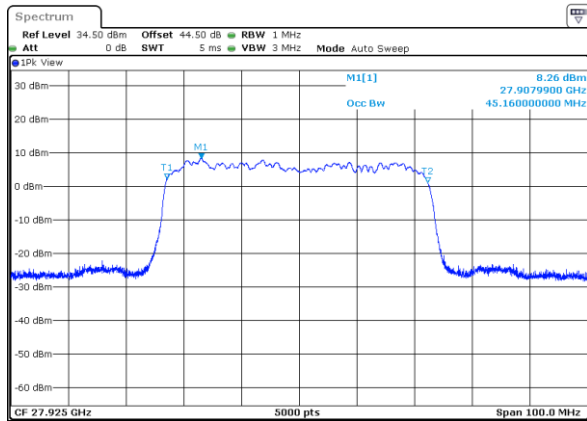
Date: 13.JUL.2020 10:56:25

Lowest Channel / 50MHz / QPSK



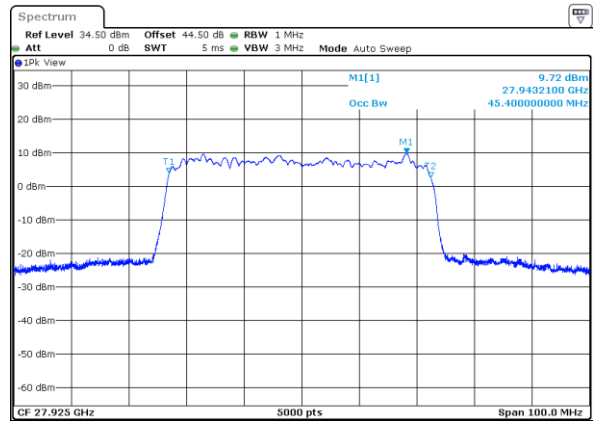
Date: 13.JUL.2020 10:58:15

Middle Channel / 50MHz / BPSK



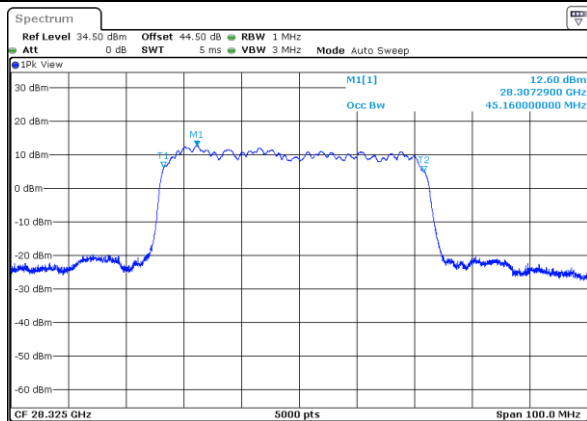
Date: 13.JUL.2020 21:33:31

Middle Channel / 50MHz / QPSK



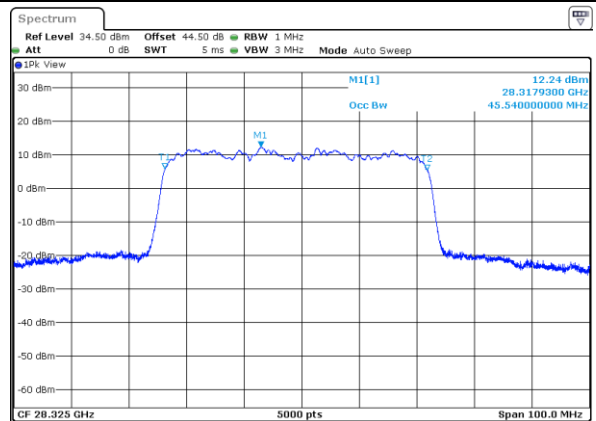
Date: 13.JUL.2020 21:32:48

Highest Channel / 50MHz / BPSK



Date: 13.JUL.2020 23:19:43

Highest Channel / 50MHz / QPSK



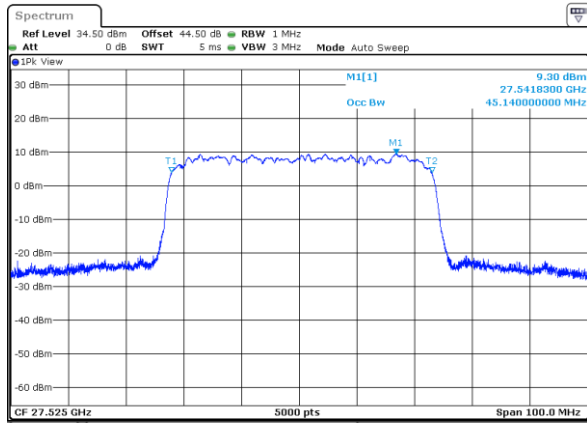
Date: 13.JUL.2020 23:18:16



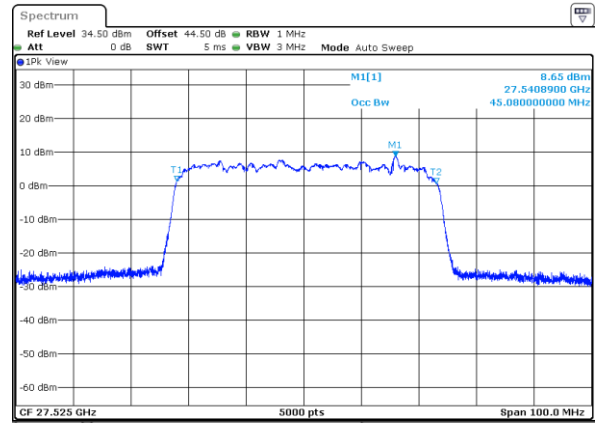
DFT-s-OFDM Module 0

NR Band n261

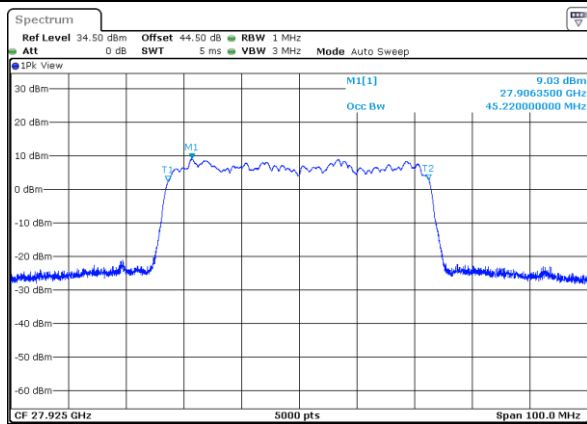
Lowest Channel / 50MHz / 16QAM



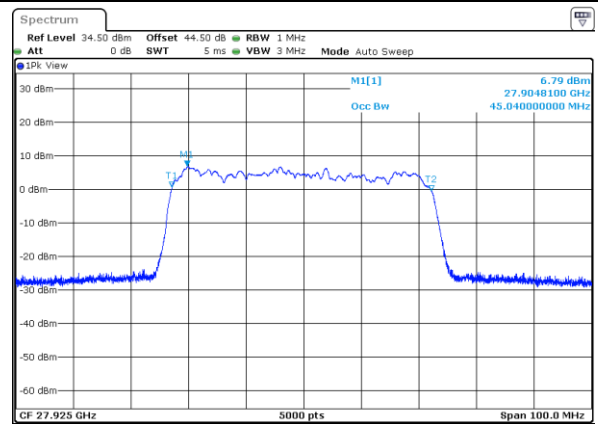
Lowest Channel / 50MHz / 64QAM



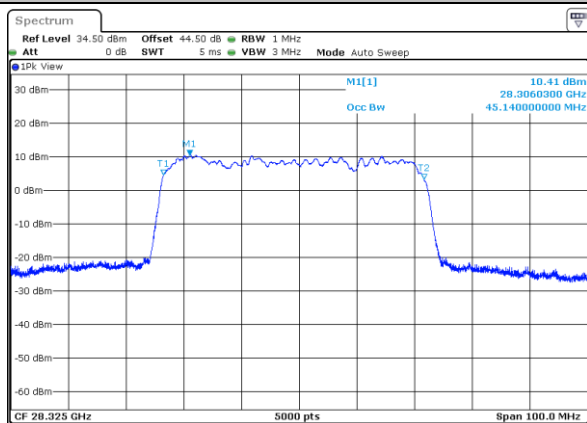
Middle Channel / 50MHz / 16QAM



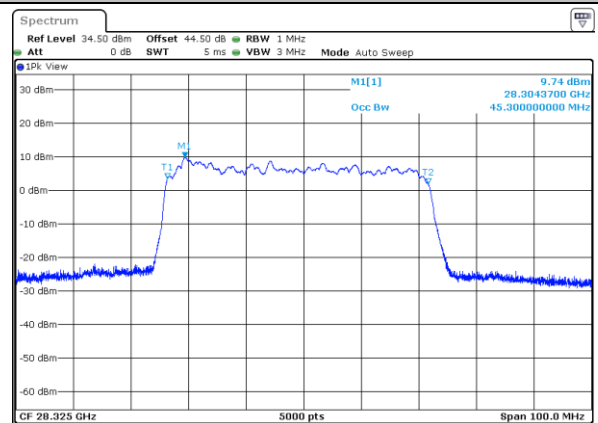
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

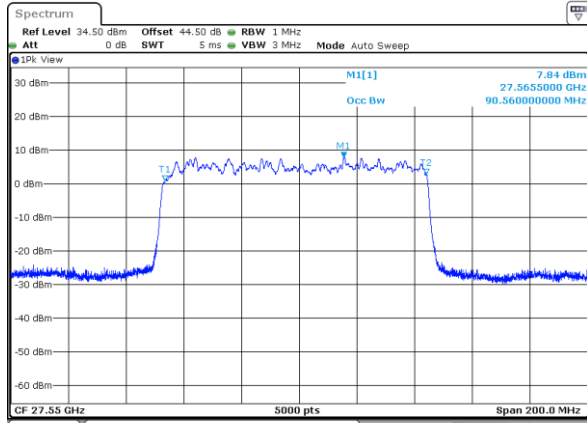




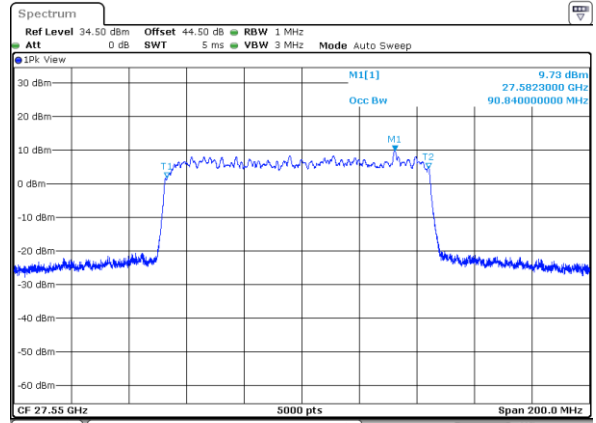
DFT-s-OFDM Module 0

NR Band n261

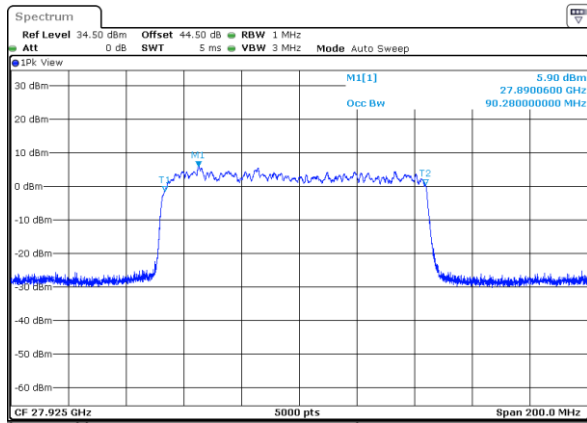
Lowest Channel / 100MHz / BPSK



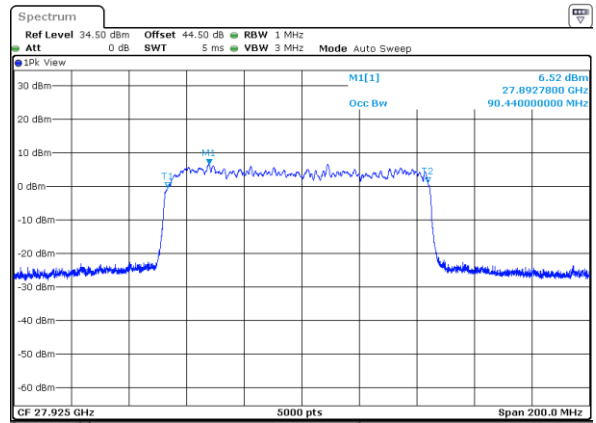
Lowest Channel / 100MHz / QPSK



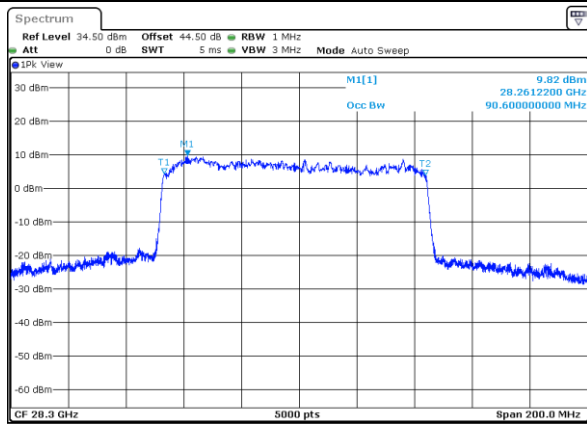
Middle Channel / 100MHz / BPSK



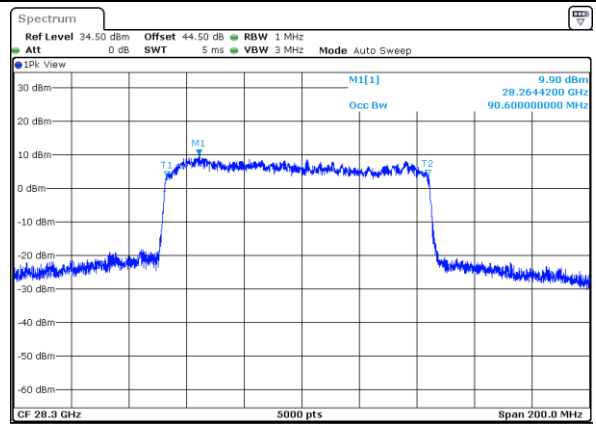
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

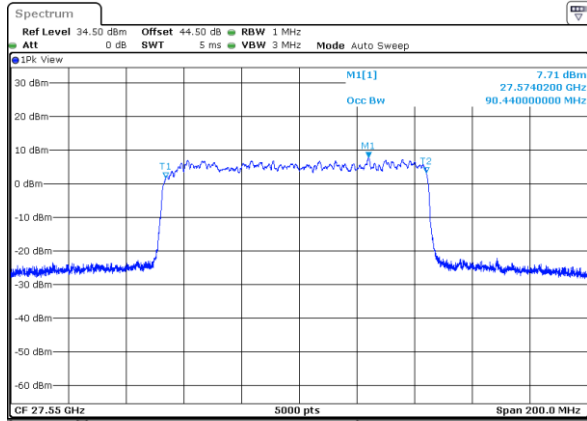




DFT-s-OFDM Module 0

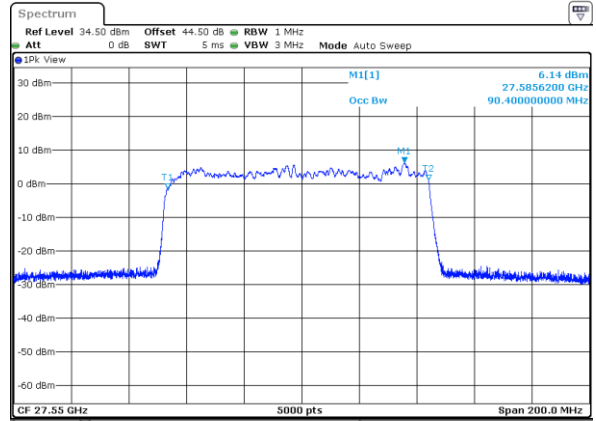
NR Band n261

Lowest Channel / 100MHz / 16QAM



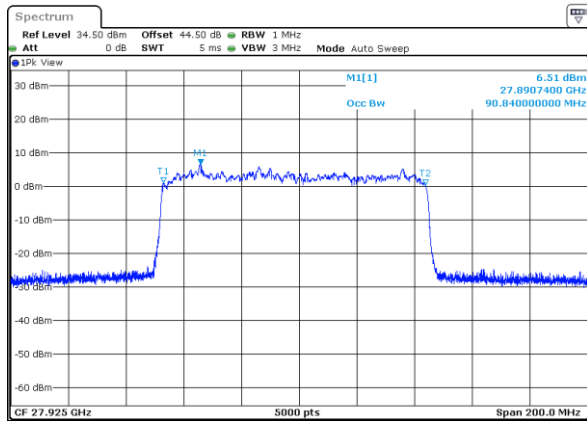
Date: 13.JUL.2020 19:43:48

Lowest Channel / 100MHz / 64QAM



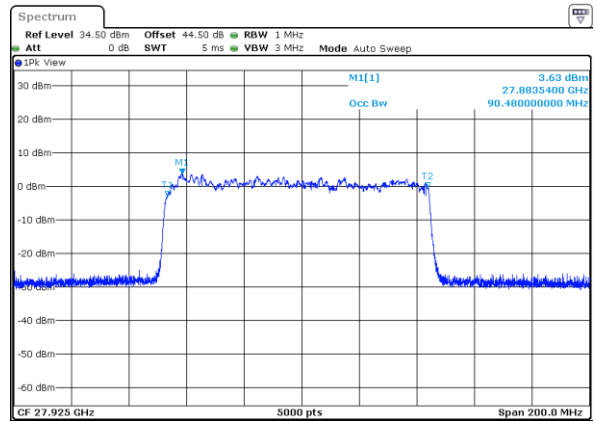
Date: 13.JUL.2020 19:40:08

Middle Channel / 100MHz / 16QAM



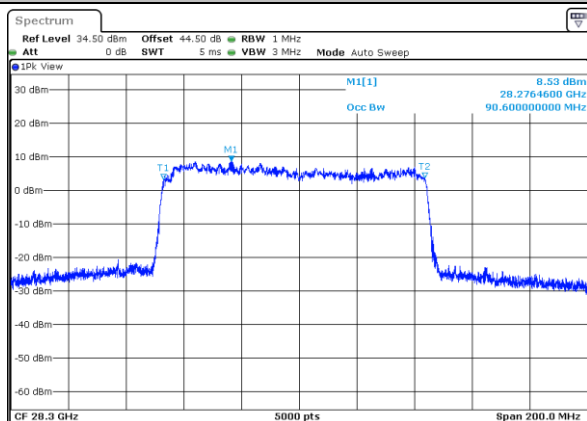
Date: 13.JUL.2020 21:56:55

Middle Channel / 100MHz / 64QAM



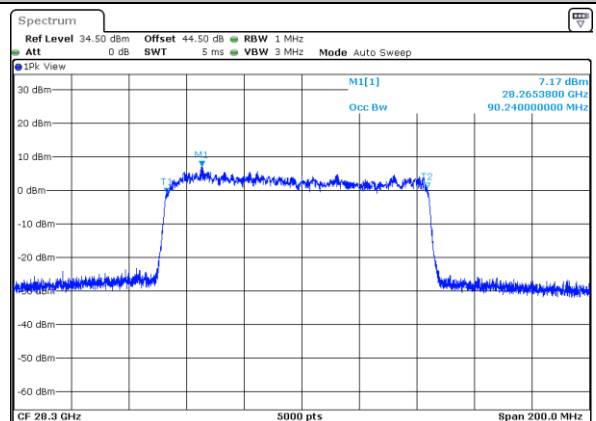
Date: 13.JUL.2020 21:55:19

Highest Channel / 100MHz / 16QAM



Date: 11.JUL.2020 19:57:13

Highest Channel / 100MHz / 64QAM



Date: 11.JUL.2020 19:58:48