

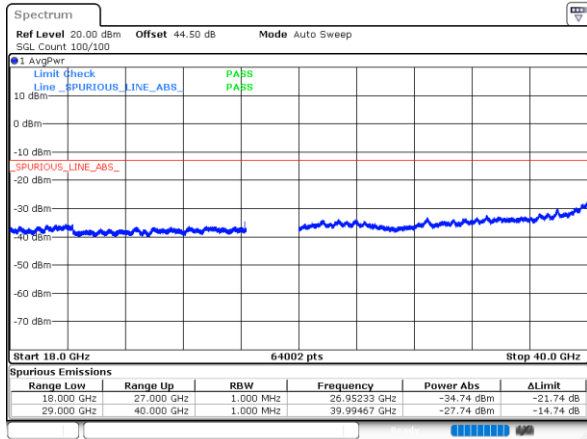


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module 0

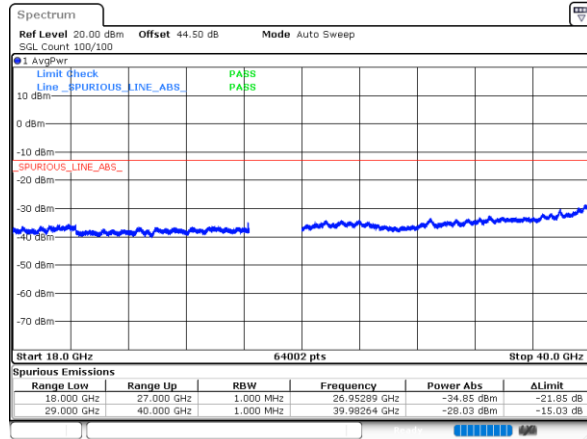
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



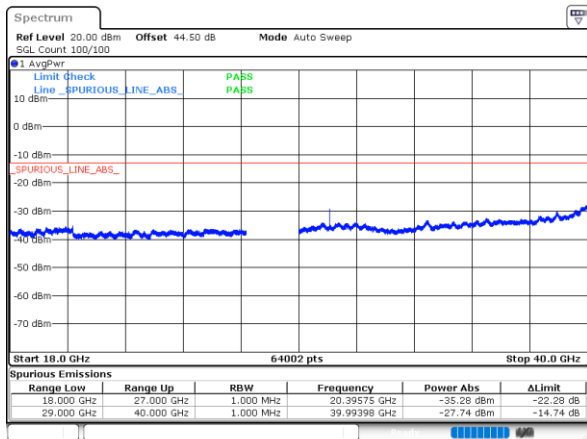
Date: 24_AUG.2020 22:29:49

Lowest Channel / 100MHz



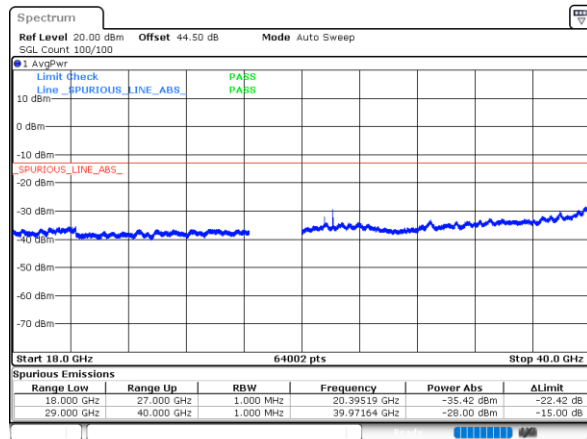
Date: 24_AUG.2020 23:12:05

Middle Channel / 50MHz



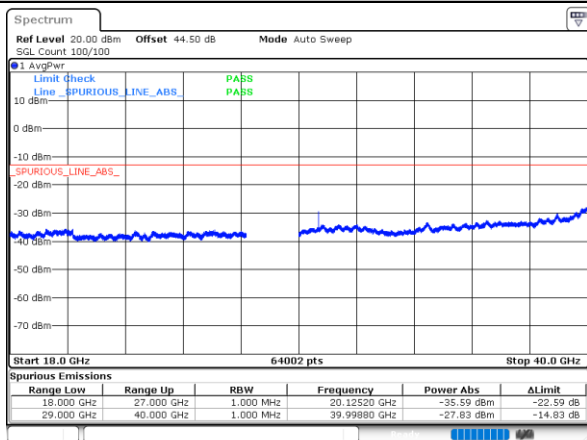
Date: 24_AUG.2020 22:05:02

Middle Channel / 100MHz



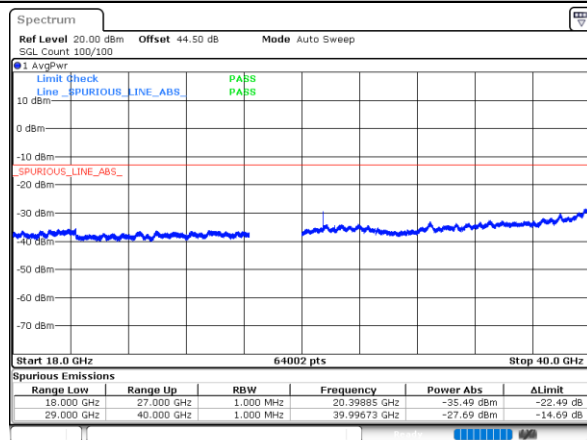
Date: 24_AUG.2020 21:40:28

Highest Channel / 50MHz



Date: 25_AUG.2020 02:53:40

Highest Channel / 100MHz



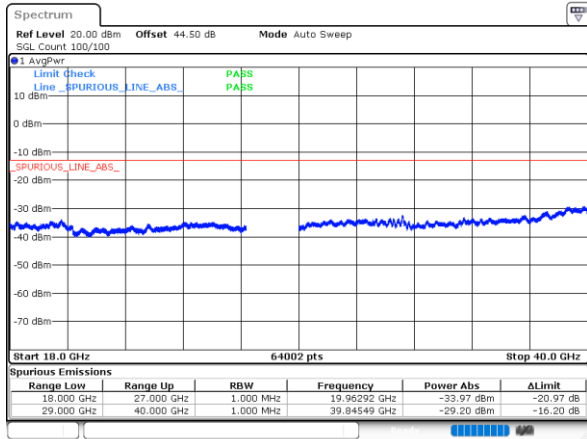
Date: 25_AUG.2020 03:38:02



DFT-s-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

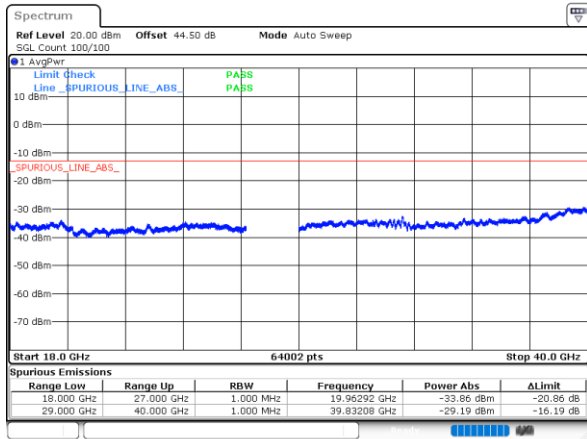
Lowest Channel / 400MHz



intentionally blank

Date: 31.AUG.2020 15:11:05

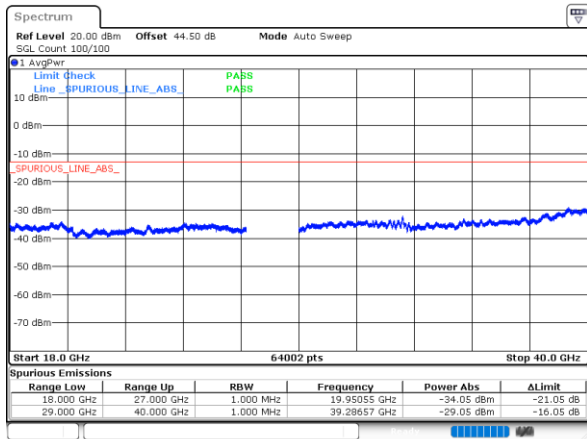
Middle Channel / 400MHz



intentionally blank

Date: 31.AUG.2020 16:39:06

Highest Channel / 400MHz



intentionally blank

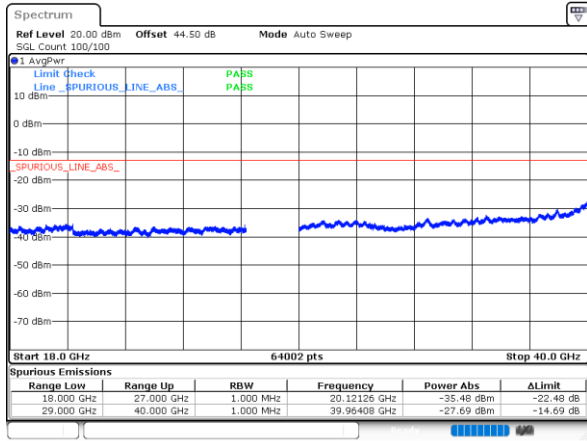
Date: 31.AUG.2020 17:52:22



CP-OFDM Module 0

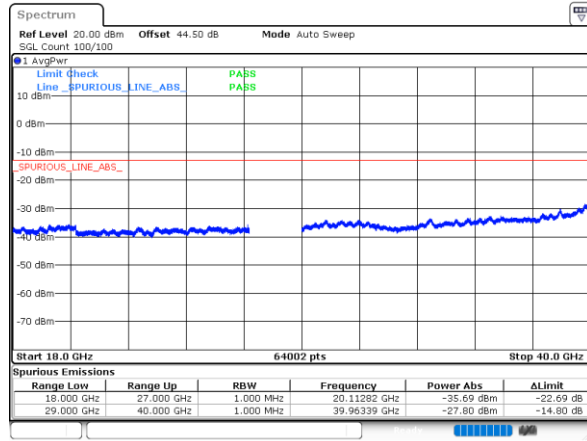
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



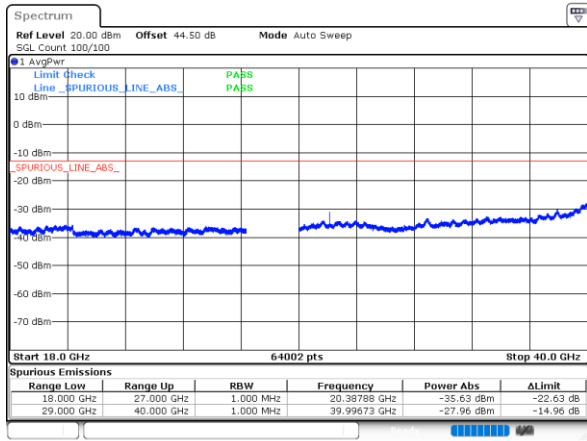
Date: 24.AUG.2020 22:49:15

Lowest Channel / 100MHz



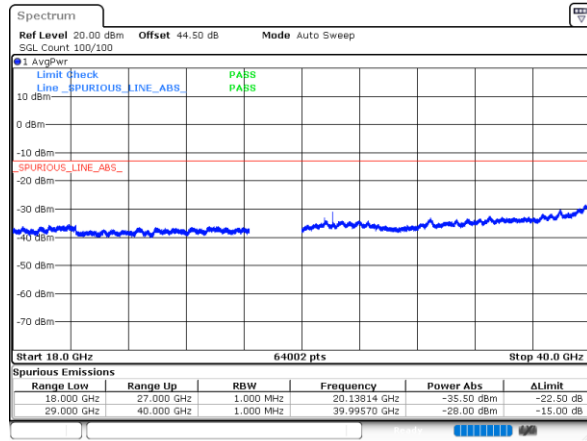
Date: 25.AUG.2020 00:08:56

Middle Channel / 50MHz



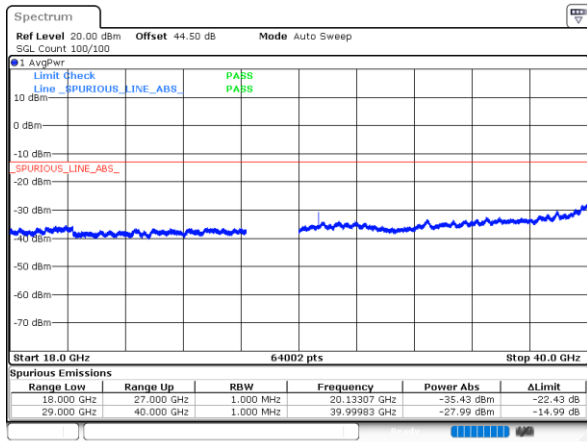
Date: 24.AUG.2020 22:14:59

Middle Channel / 100MHz



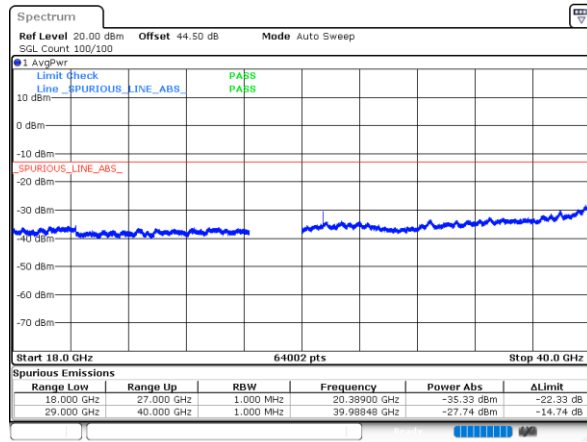
Date: 24.AUG.2020 21:51:00

Highest Channel / 50MHz



Date: 25.AUG.2020 02:59:28

Highest Channel / 100MHz



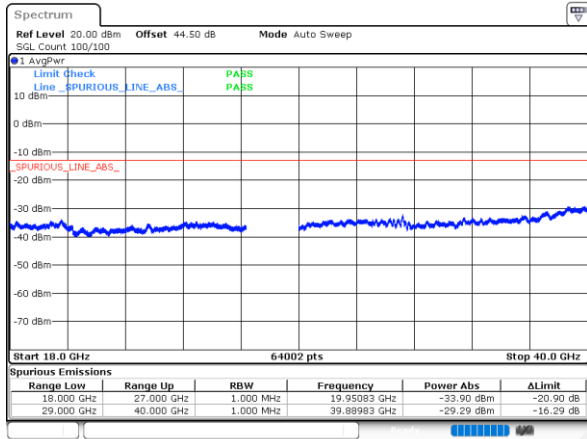
Date: 25.AUG.2020 03:48:01



CP-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

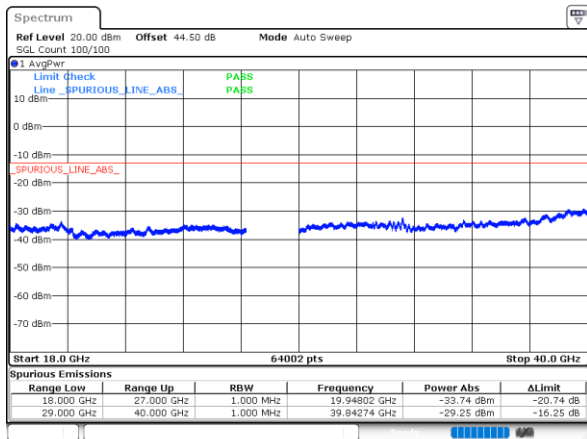
Lowest Channel / 400MHz



intentionally blank

Date: 31.AUG.2020 15:20:58

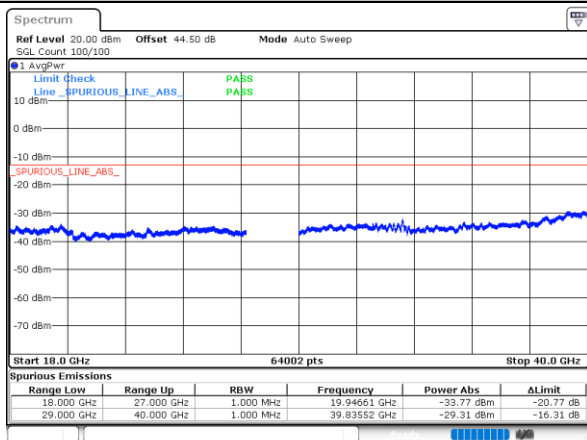
Middle Channel / 400MHz



intentionally blank

Date: 31.AUG.2020 16:46:24

Highest Channel / 400MHz

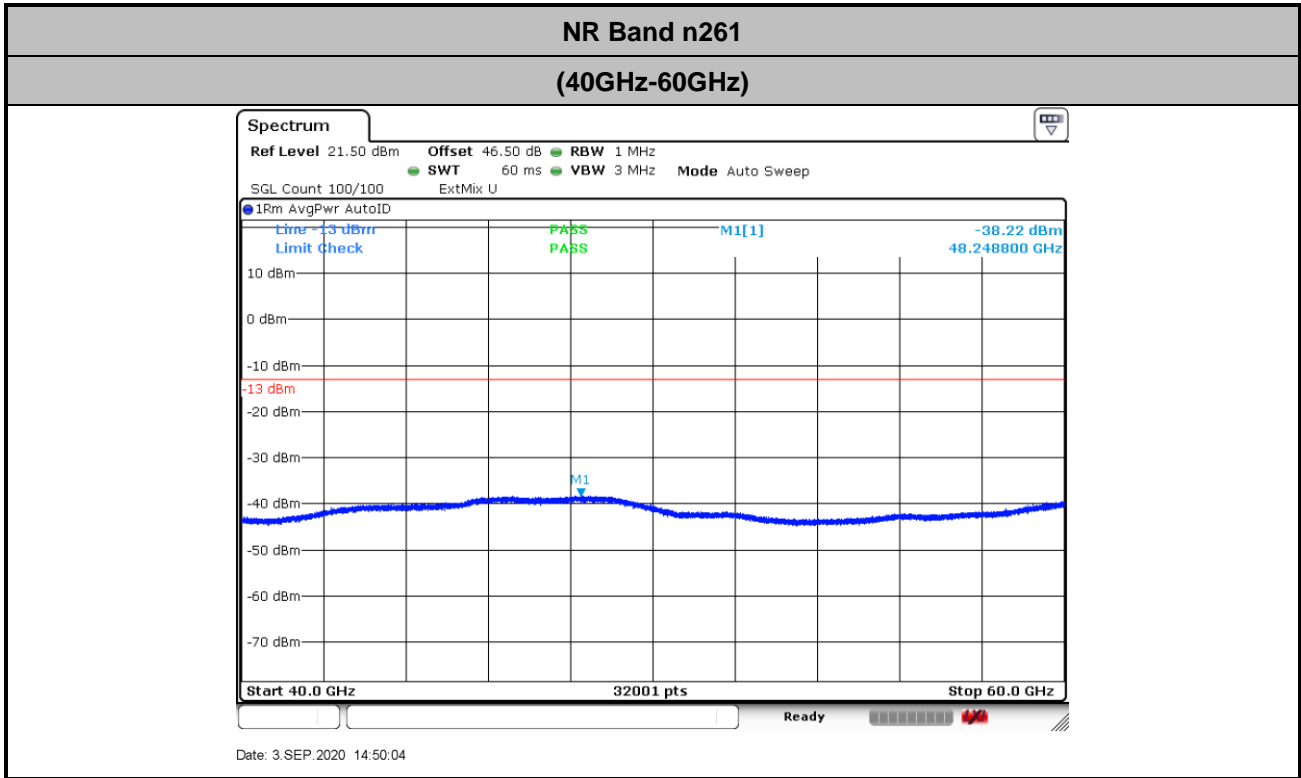


intentionally blank

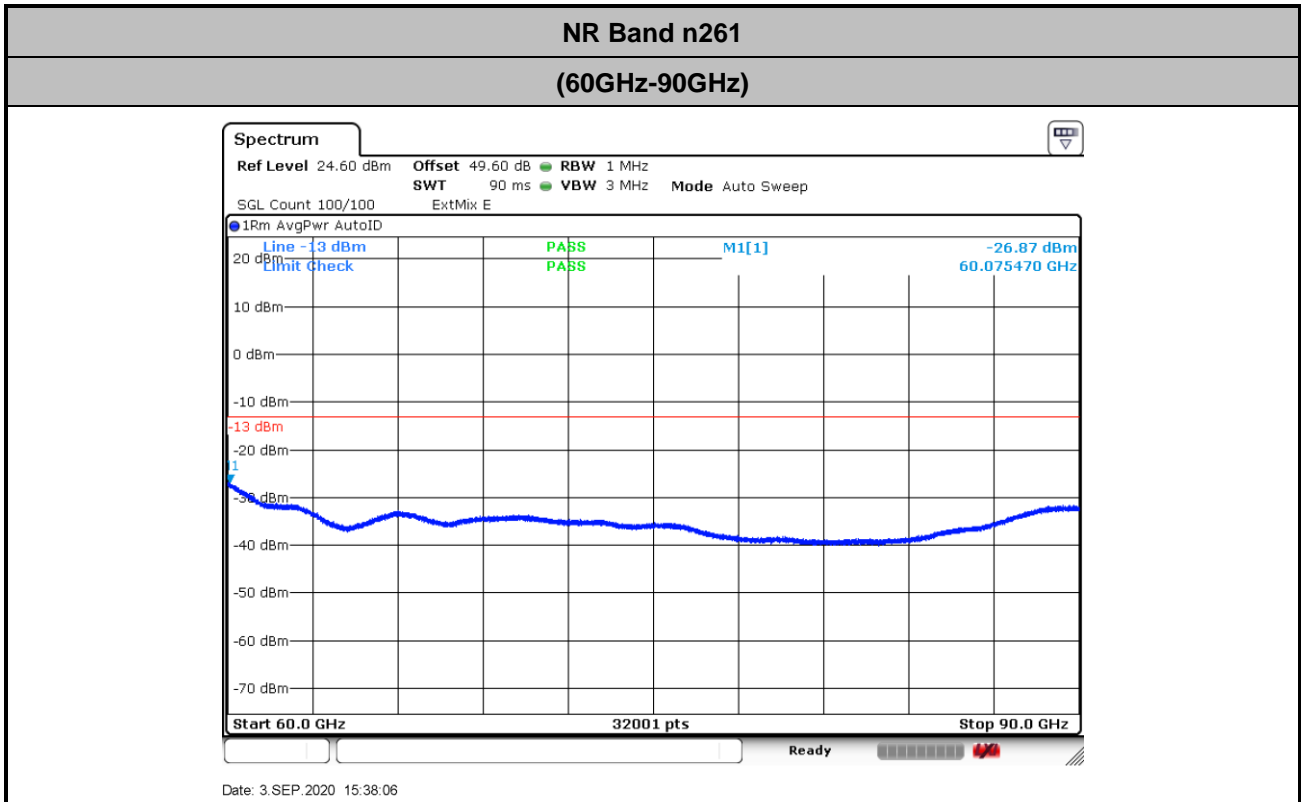
Date: 31.AUG.2020 17:55:08



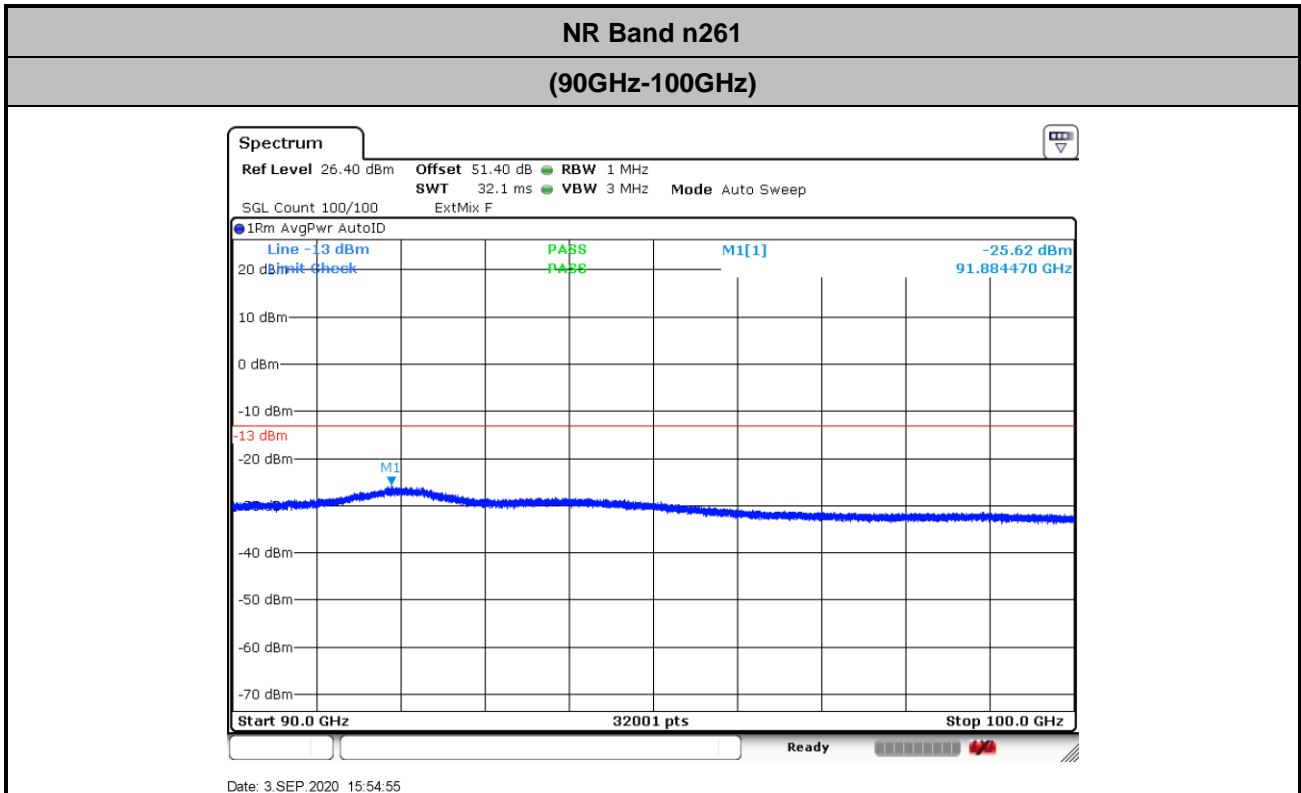
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.



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



$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\
 &= 45.2 + 2.2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}
 \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47 + 2.2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)} \end{aligned}$$



NR Band n261 Module 0 AG1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.14	-	-	90.60	-	-	385.28	-	-
Middle CH	45.36	45.42	45.38	90.08	90.16	90.44	388.16	387.36	385.76
Highest CH	45.26	-	-	90.08	-	-	387.68	-	-

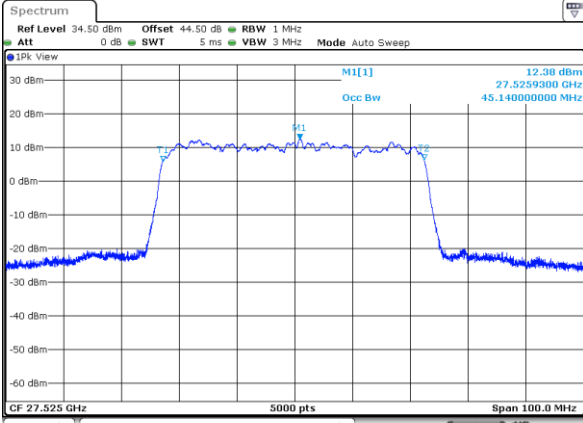
Mode	CP-OFDM Module 0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.28	-	-	93.00	-	-	386.56	-	-
Middle CH	45.48	45.24	45.50	92.56	92.72	92.72	388.48	386.56	389.60
Highest CH	45.34	-	-	92.60	-	-	388.16	-	-



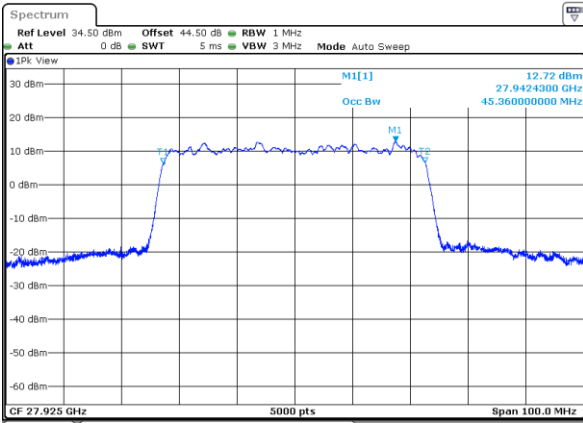
DFT-s-OFDM Module 0

NR Band n261

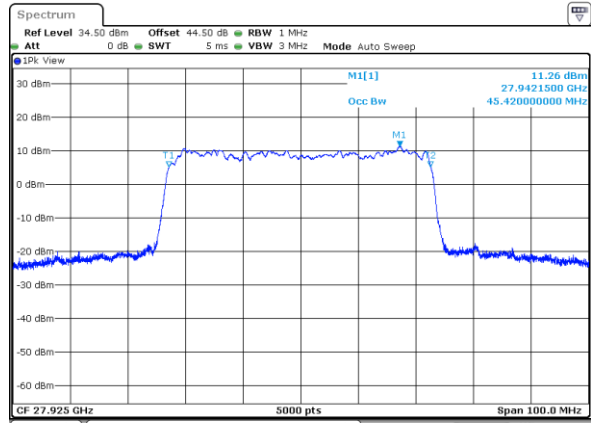
Lowest Channel / 50MHz / QPSK



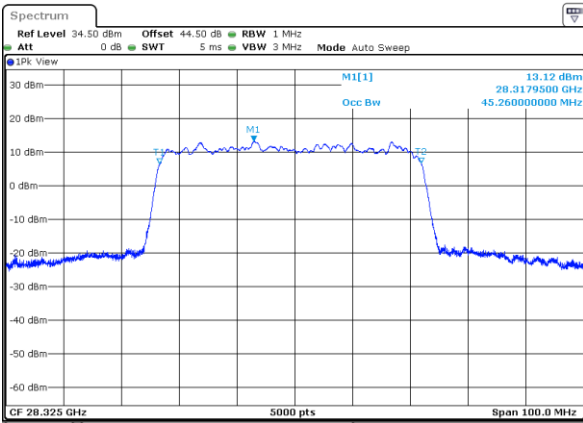
Middle Channel / 50MHz / QPSK



Middle Channel / 50MHz / 16QAM

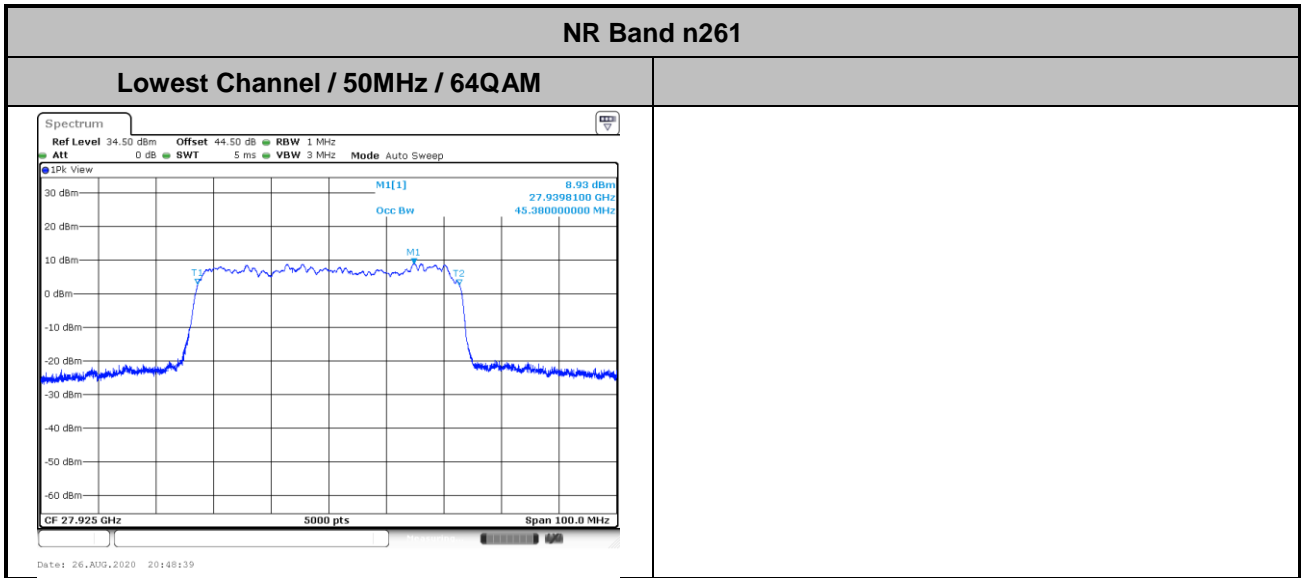


Highest Channel / 50MHz / QPSK





DFT-s-OFDM Module 0

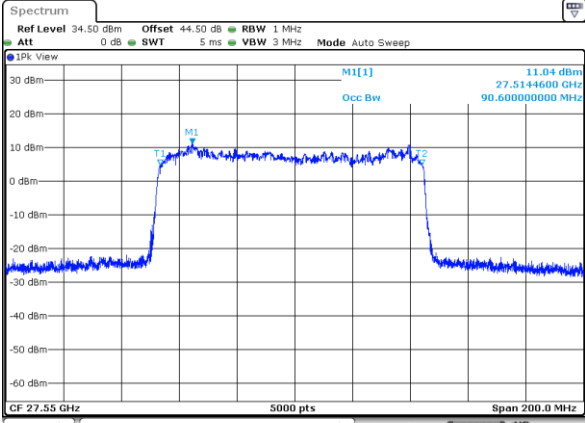




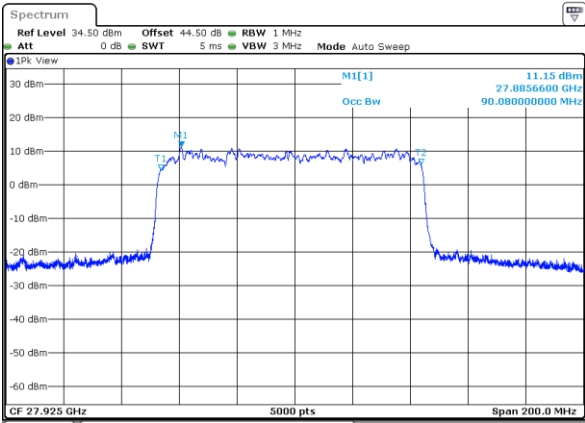
DFT-s-OFDM Module 0

NR Band n261

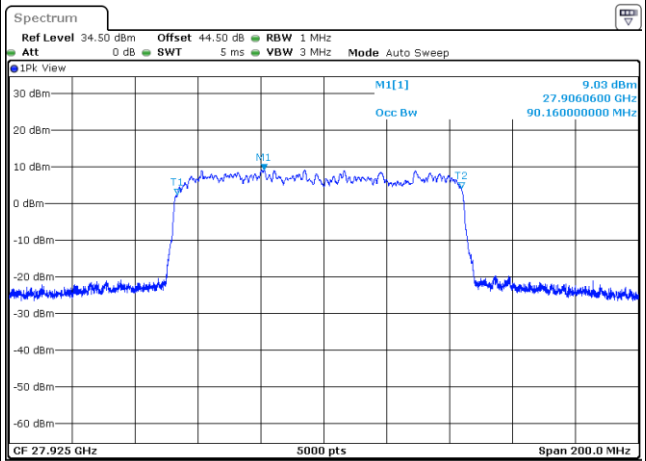
Lowest Channel / 100MHz / QPSK



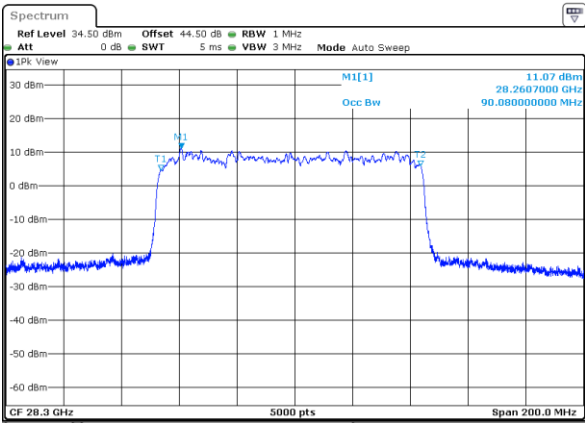
Middle Channel / 100MHz / QPSK



Middle Channel / 100MHz / 16QAM

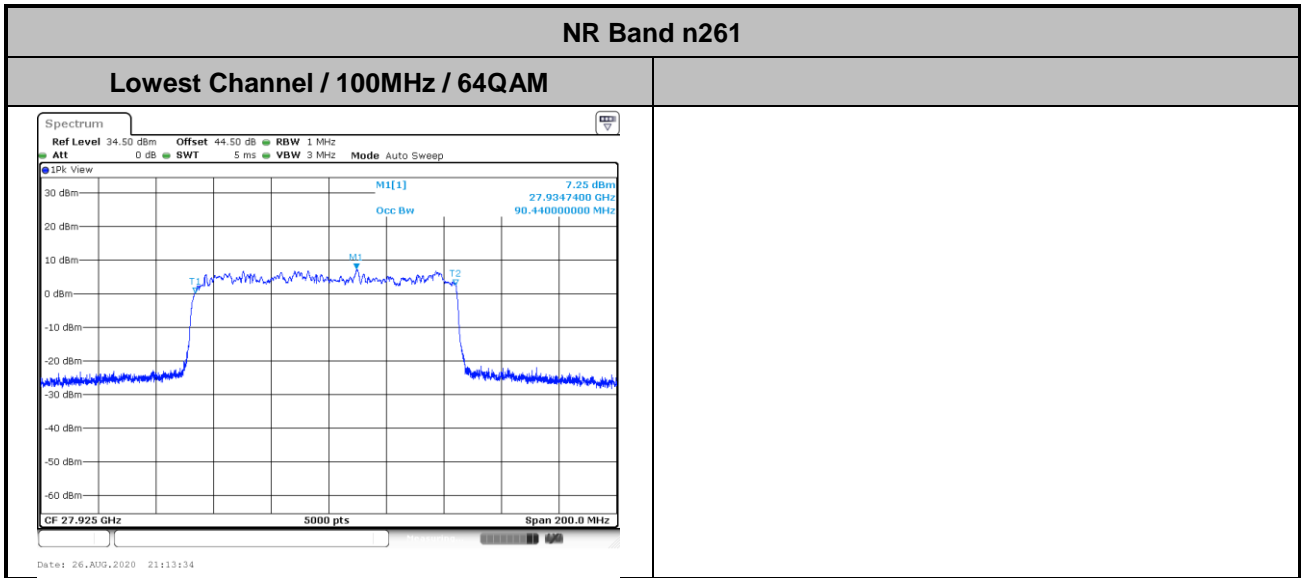


Highest Channel / 100MHz / QPSK





DFT-s-OFDM Module 0

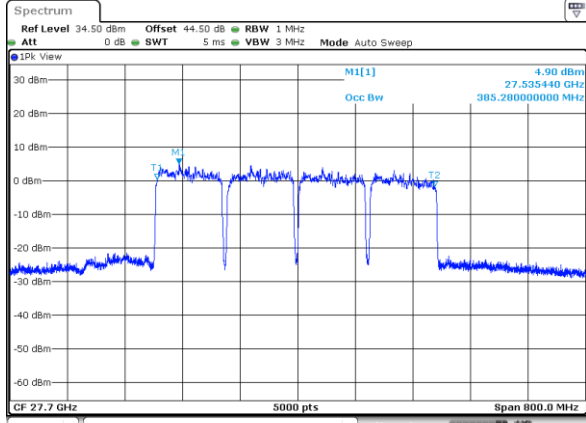




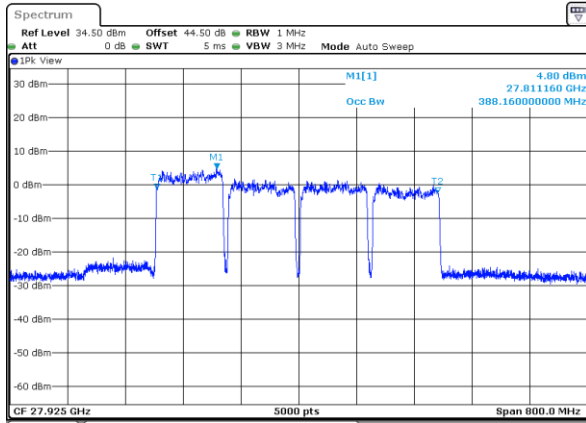
DFT-s-OFDM Module 0

NR Band n261

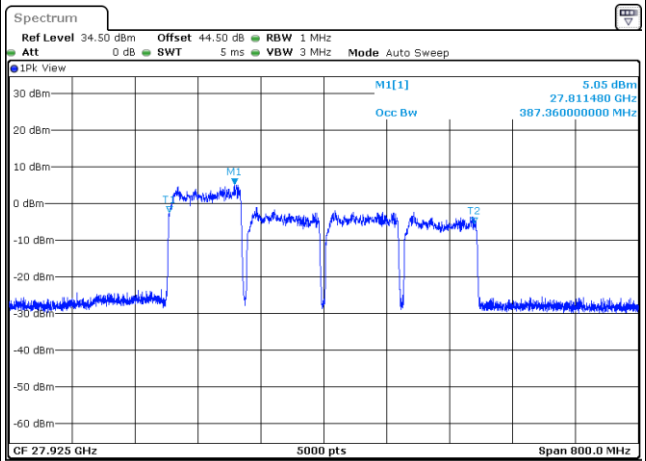
Lowest Channel / 400MHz / QPSK



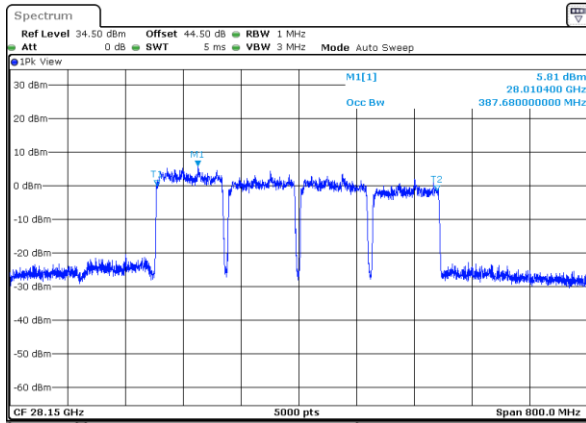
Middle Channel / 400MHz / QPSK



Middle Channel / 400MHz / 16QAM

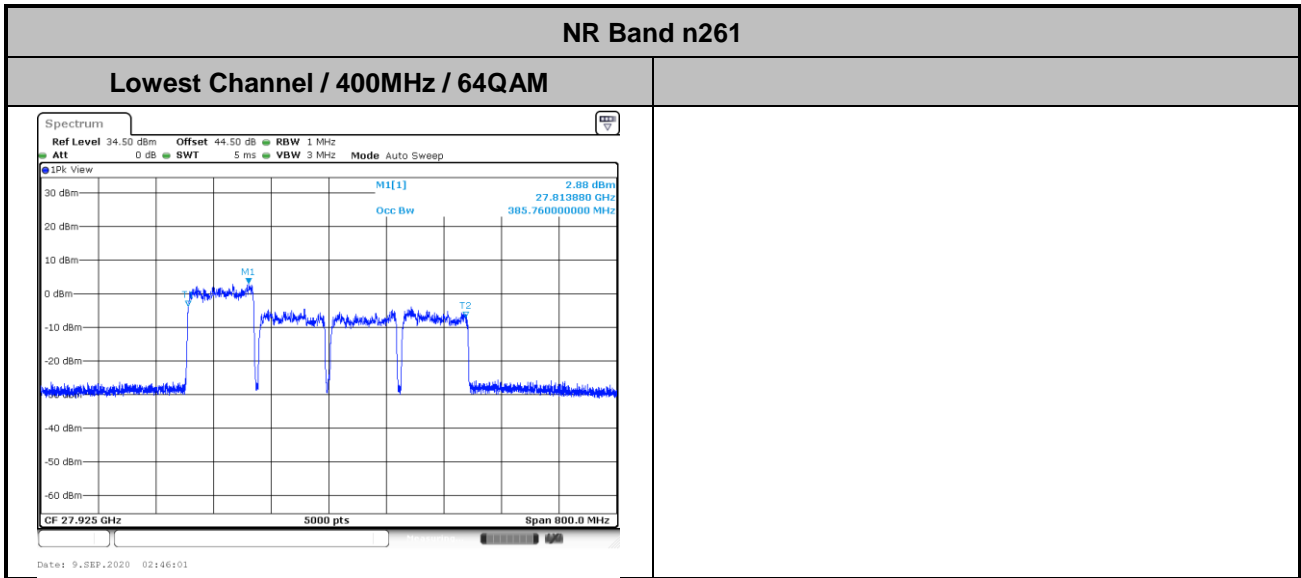


Highest Channel / 400MHz / QPSK





DFT-s-OFDM Module 0

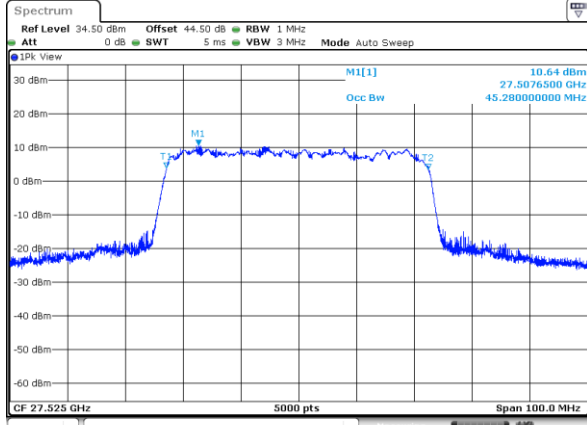




CP-OFDM Module 0

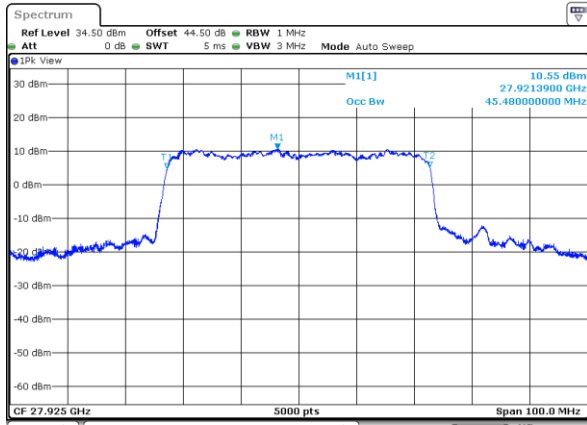
NR Band n261

Lowest Channel / 50MHz / QPSK



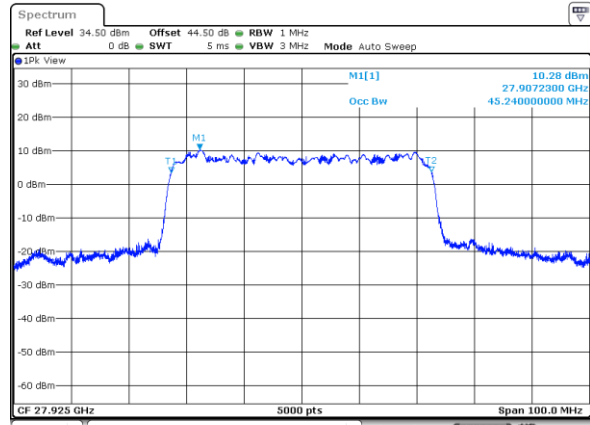
Date: 25_AUG.2020 04:51:30

Middle Channel / 50MHz / QPSK



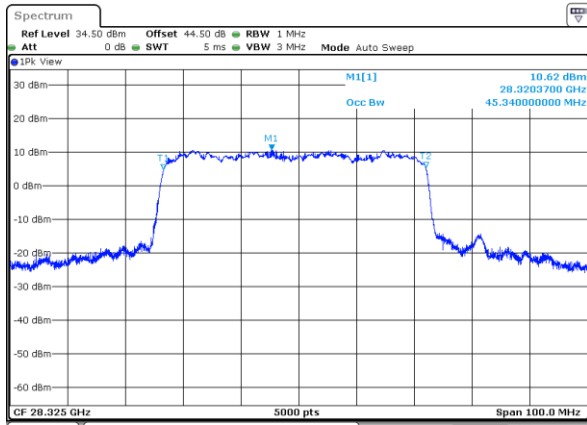
Date: 26_AUG.2020 20:53:04

Middle Channel / 50MHz / 16QAM



Date: 26_AUG.2020 20:53:54

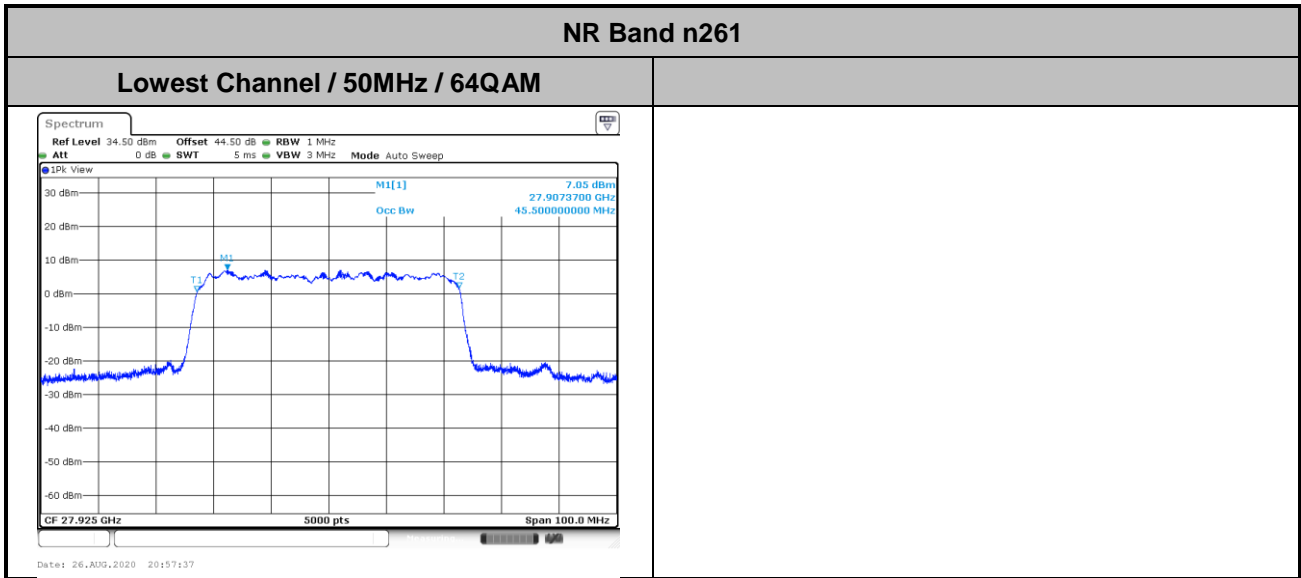
Highest Channel / 50MHz / QPSK



Date: 27_AUG.2020 00:10:24



CP-OFDM Module 0

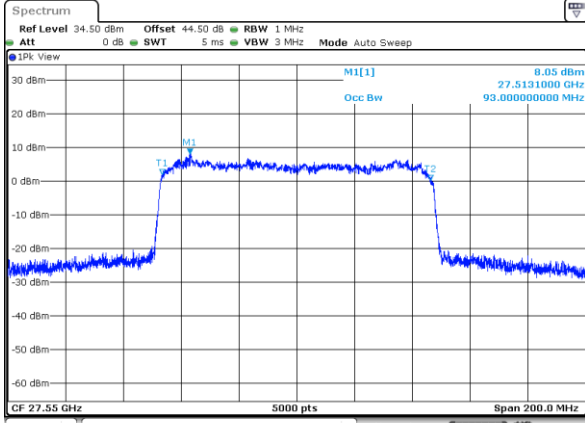




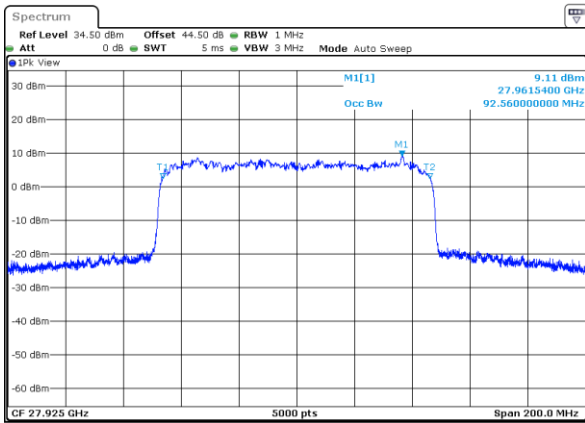
CP-OFDM Module 0

NR Band n261

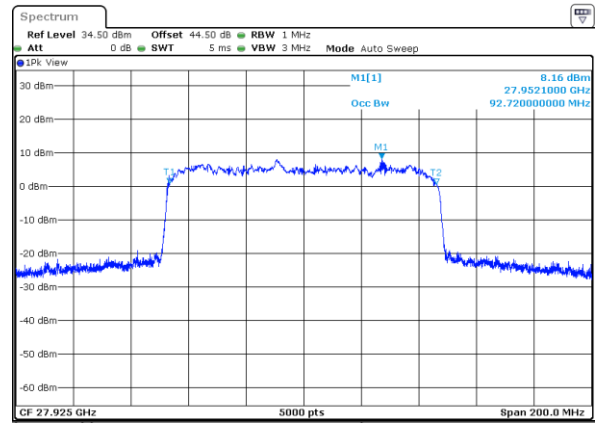
Lowest Channel / 100MHz / QPSK



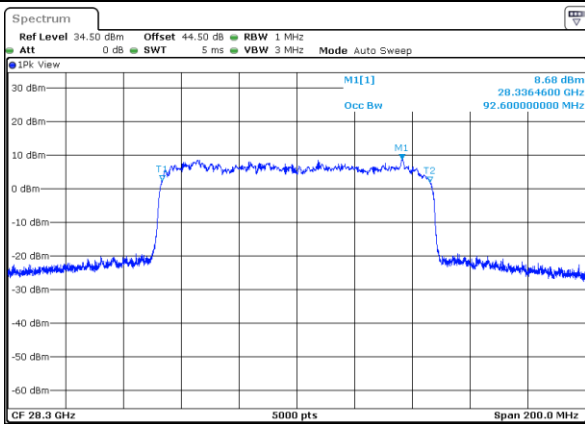
Middle Channel / 100MHz / QPSK



Middle Channel / 100MHz / 16QAM

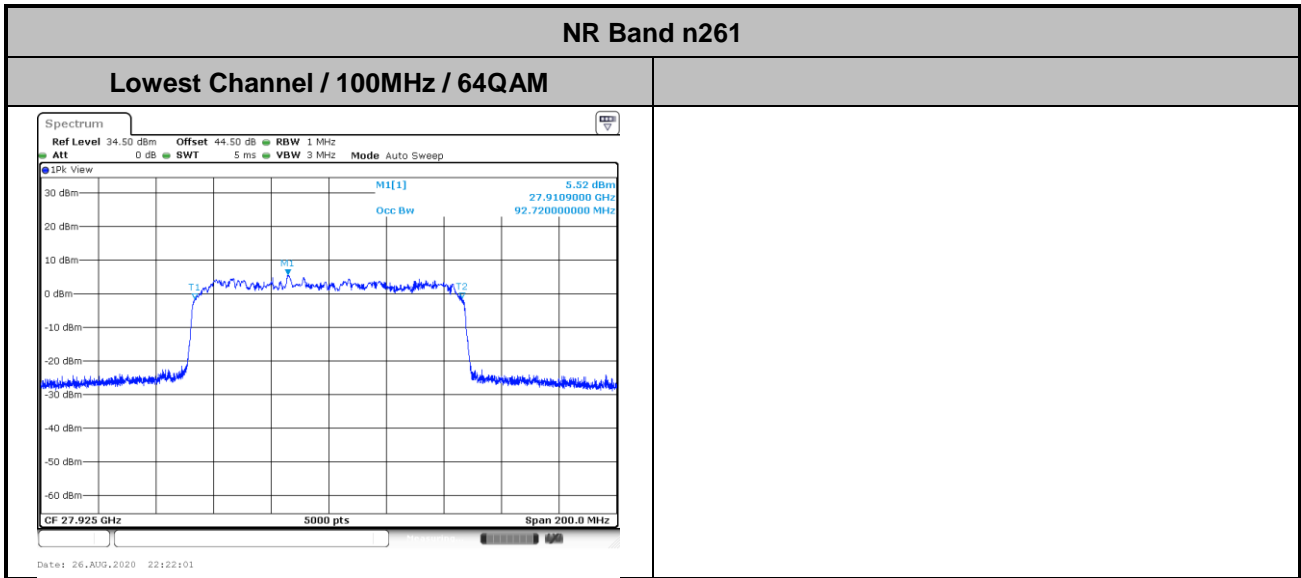


Highest Channel / 50MHz / QPSK





CP-OFDM Module 0

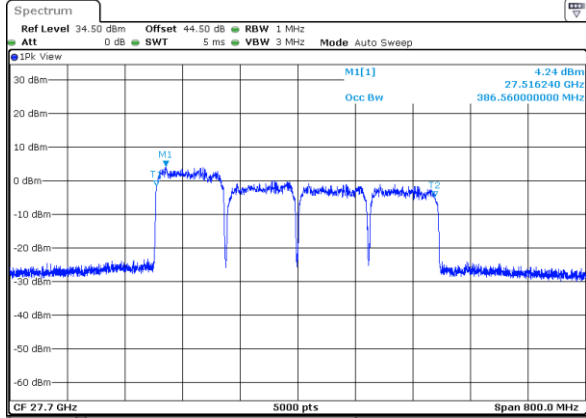




CP-OFDM Module 0

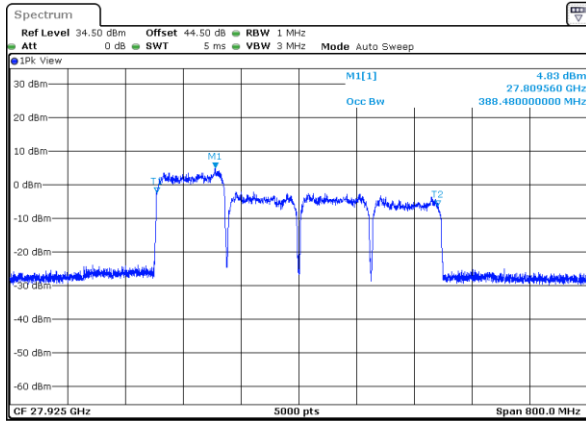
NR Band n261

Lowest Channel / 400MHz / QPSK



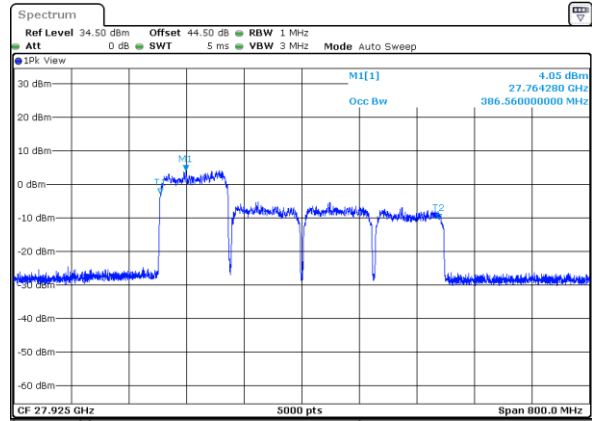
Date: 31.AUG.2020 20:24:30

Middle Channel / 400MHz / QPSK



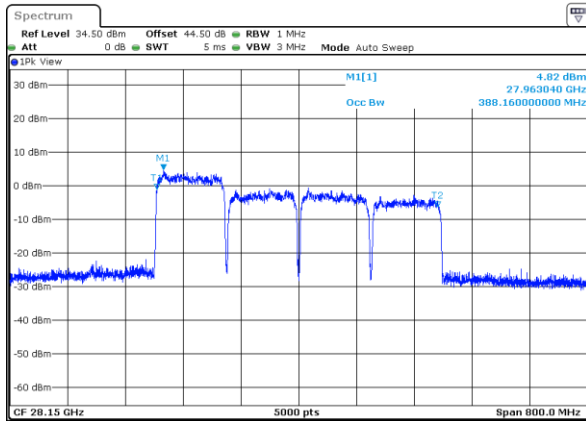
Date: 31.AUG.2020 22:21:16

Middle Channel / 400MHz / 16QAM



Date: 31.AUG.2020 22:18:57

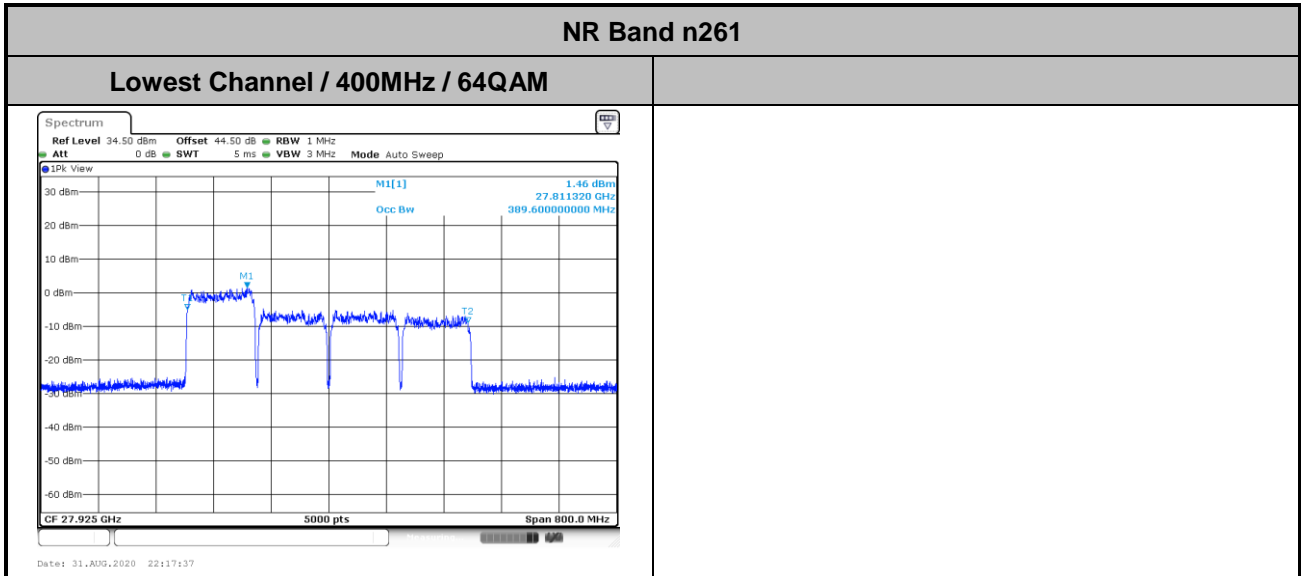
Highest Channel / 400MHz / QPSK



Date: 31.AUG.2020 23:51:43



CP-OFDM Module 0





Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤ -5	-13.32	-16.58	-21.44
	>10%OB	≤ -13	-27.61	-26.86	-25.07
High CH	0~10%OB	≤ -5	-21.87	-19.31	-32.80
	>10%OB	≤ -13	-30.92	-31.30	-32.99
Result			Compliance		

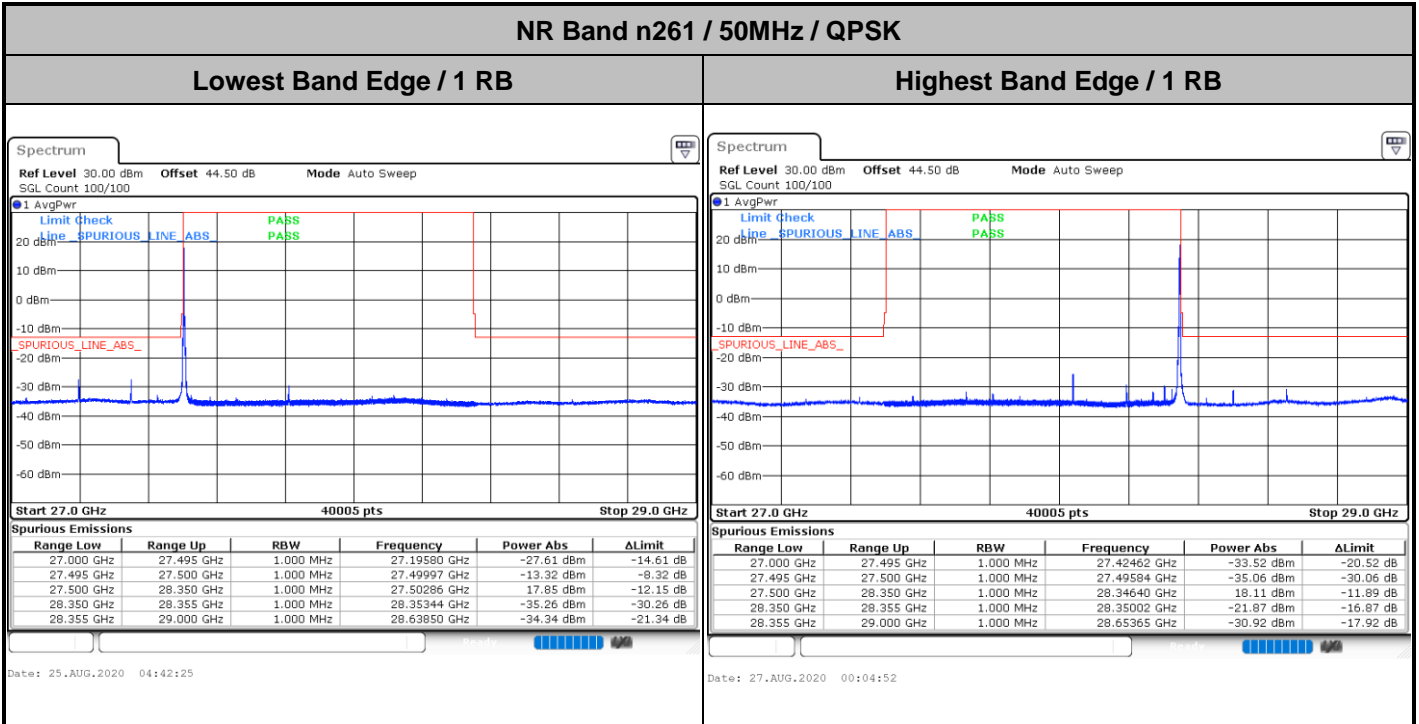
Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤ -5	-15.48	-17.66	-23.12
	>10%OB	≤ -13	-29.22	-29.16	-24.70
High CH	0~10%OB	≤ -5	-24.63	-21.49	-32.98
	>10%OB	≤ -13	-32.67	-32.21	-32.12
Result			Compliance		

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) Full RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤ -5	-26.83	-30.09	-30.85
	>10%OB	≤ -13	-29.18	-31.31	-31.30
High CH	0~10%OB	≤ -5	-28.72	-30.29	-32.27
	>10%OB	≤ -13	-28.81	-32.05	-32.91
Result			Compliance		

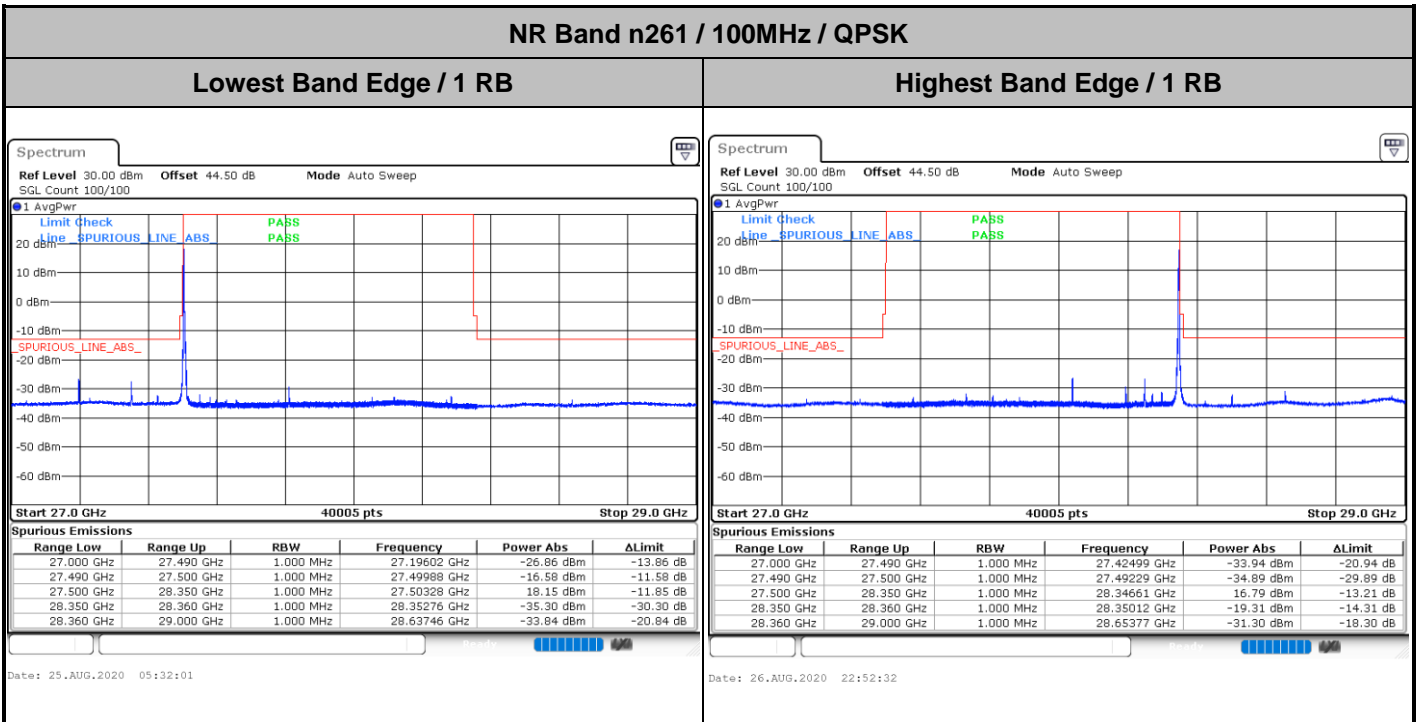
Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) Full RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤ -5	-26.96	-29.39	-32.36
	>10%OB	≤ -13	-29.23	-30.74	-32.83
High CH	0~10%OB	≤ -5	-28.47	-29.92	-33.91
	>10%OB	≤ -13	-29.11	-31.95	-32.91
Result			Compliance		



DFT-s-OFDM Module 0

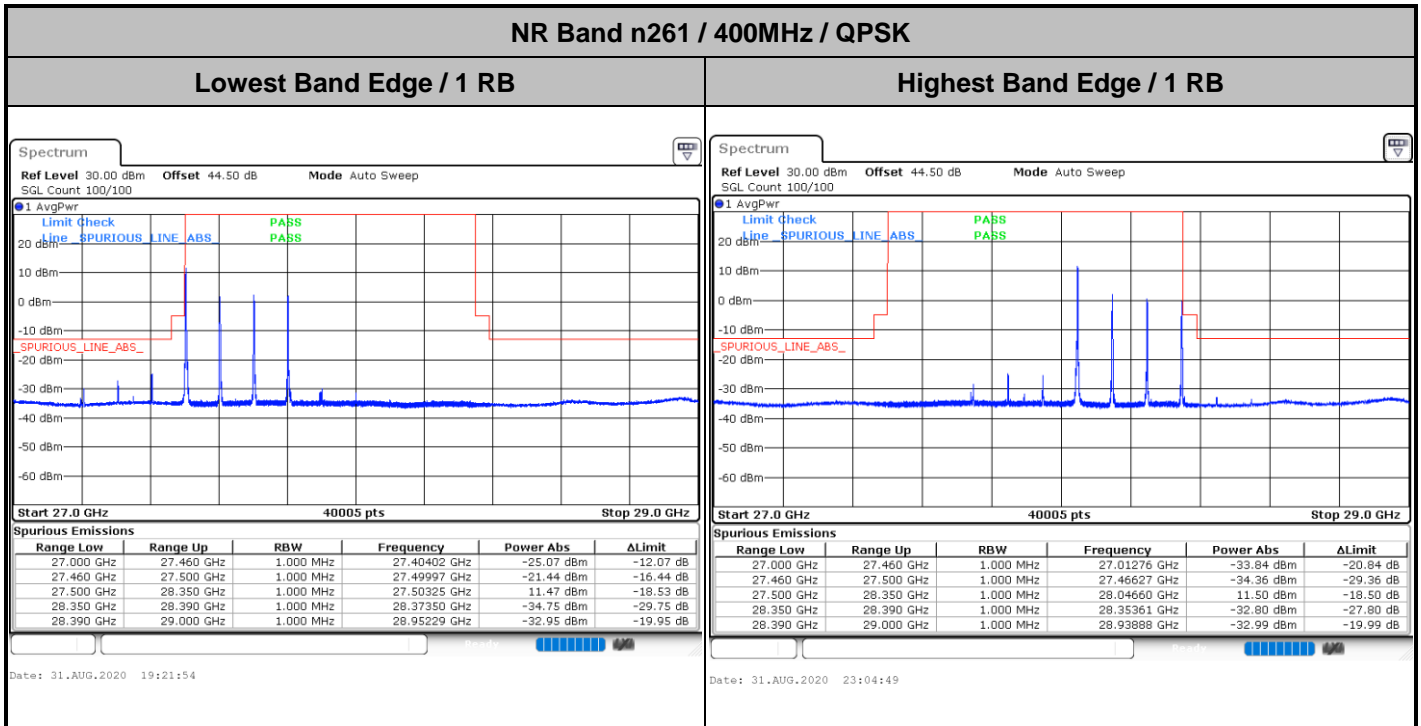


DFT-s-OFDM Module 0

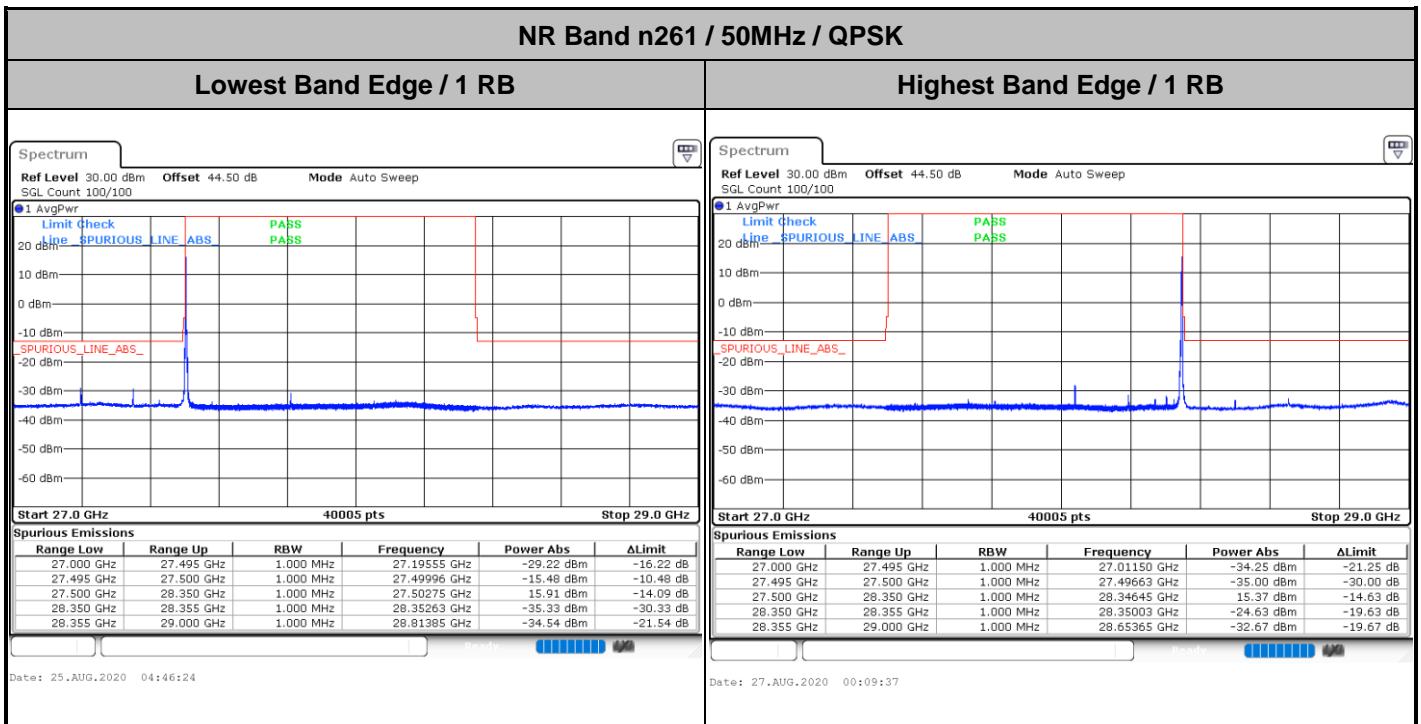




DFT-s-OFDM Module 0

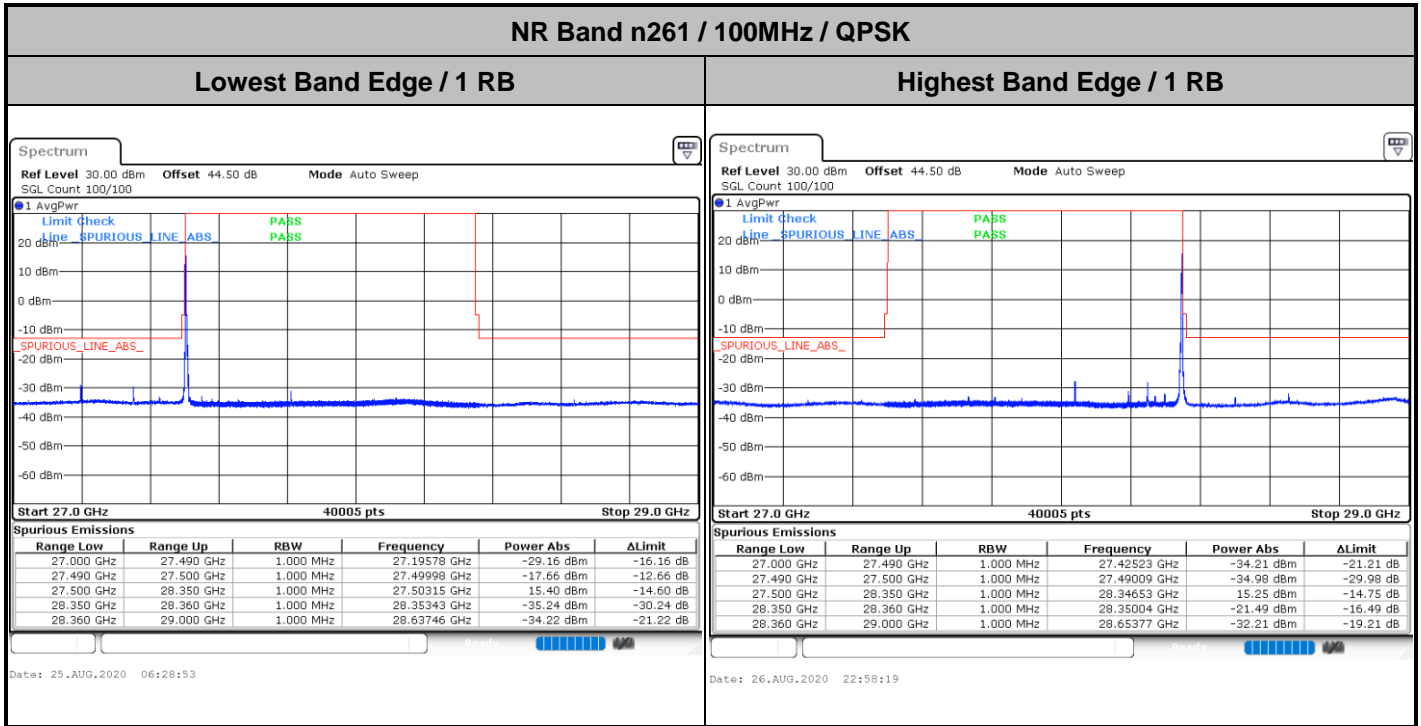


CP-OFDM Module 0

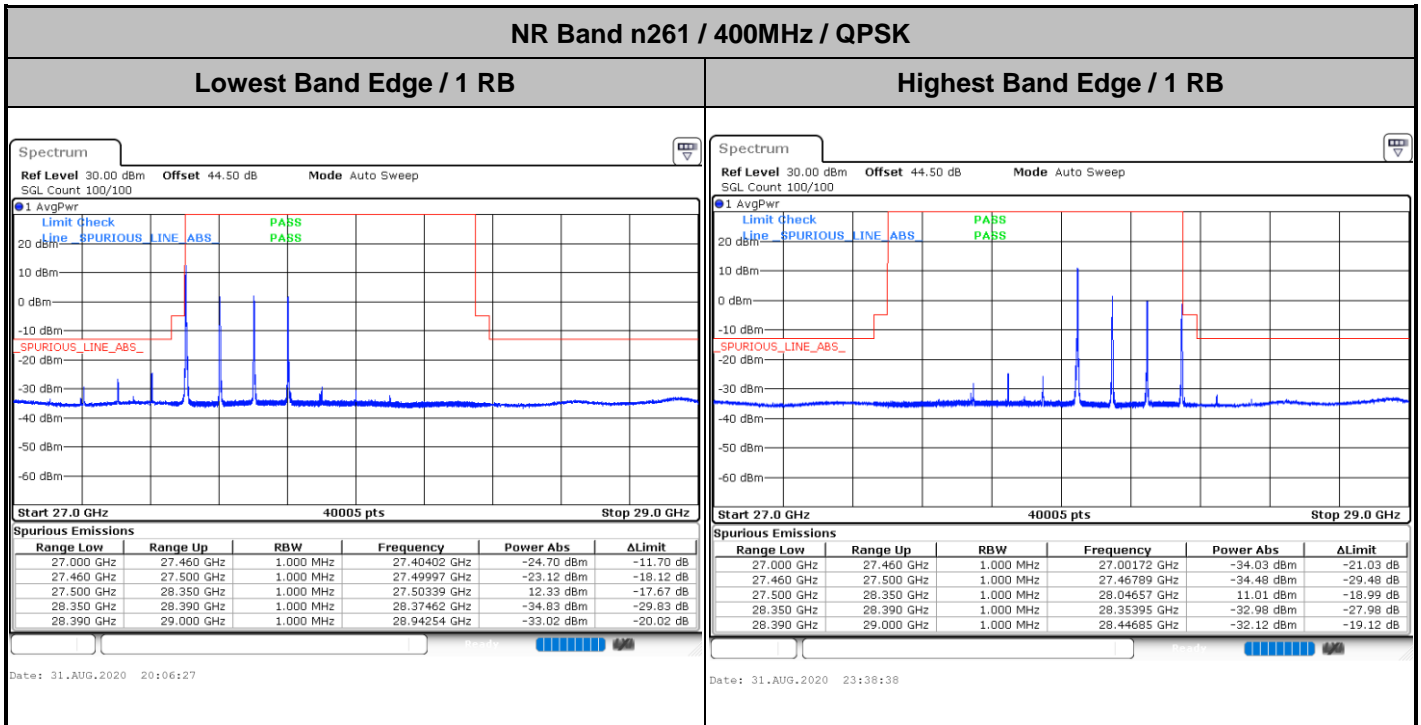




CP-OFDM Module 0

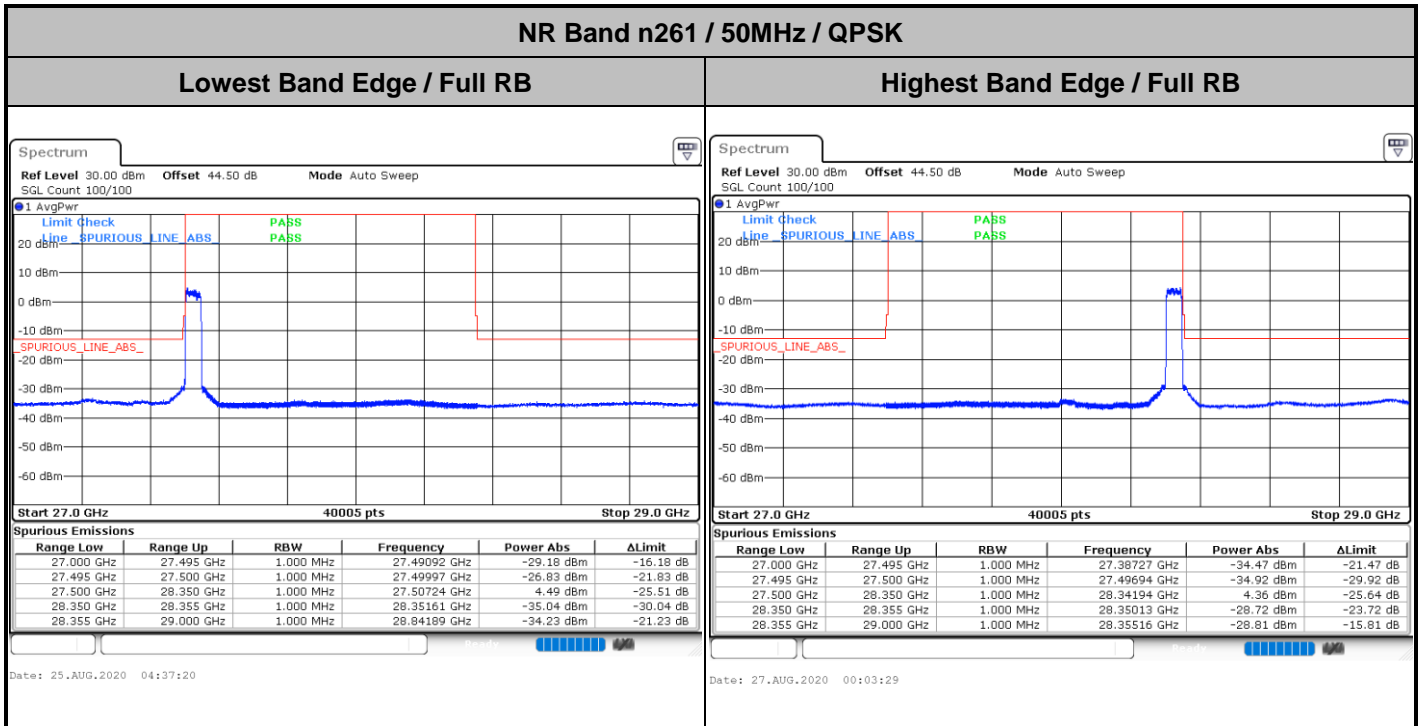


CP-OFDM Module 0

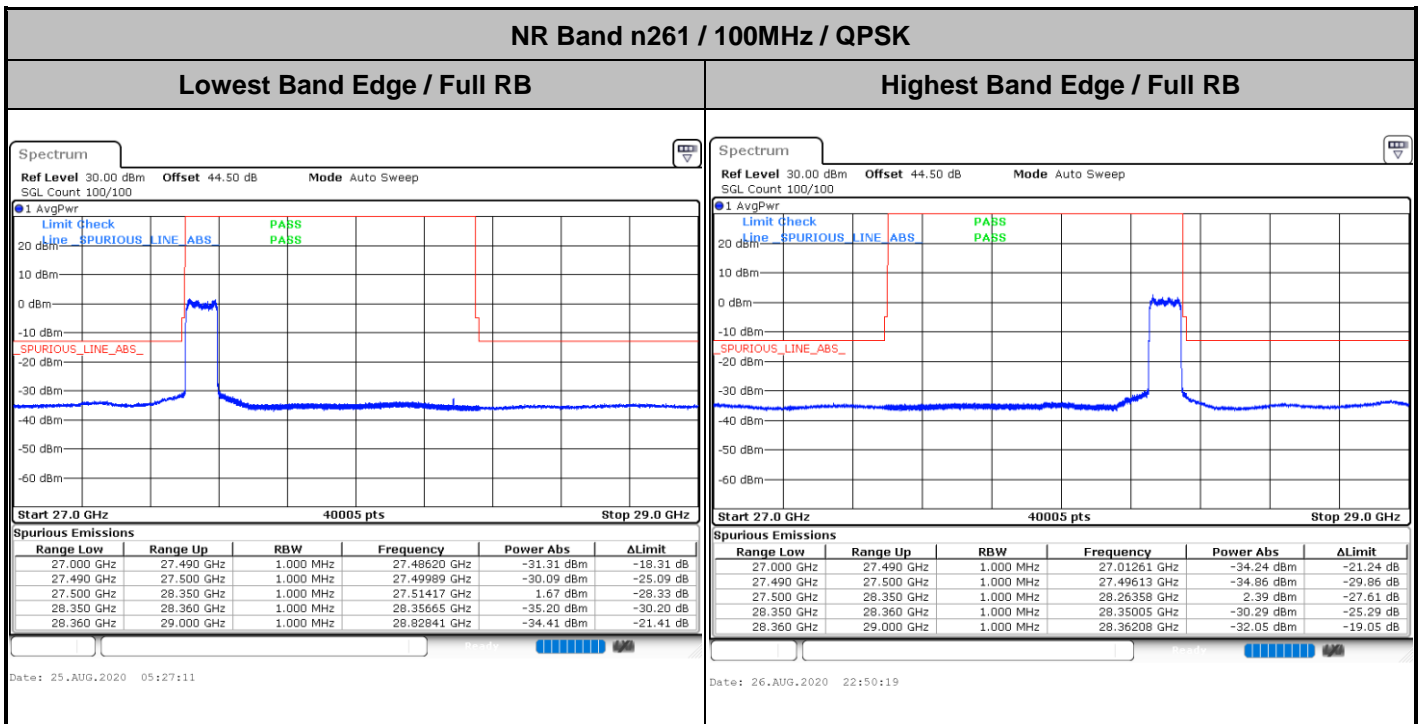




DFT-s-OFDM Module 0

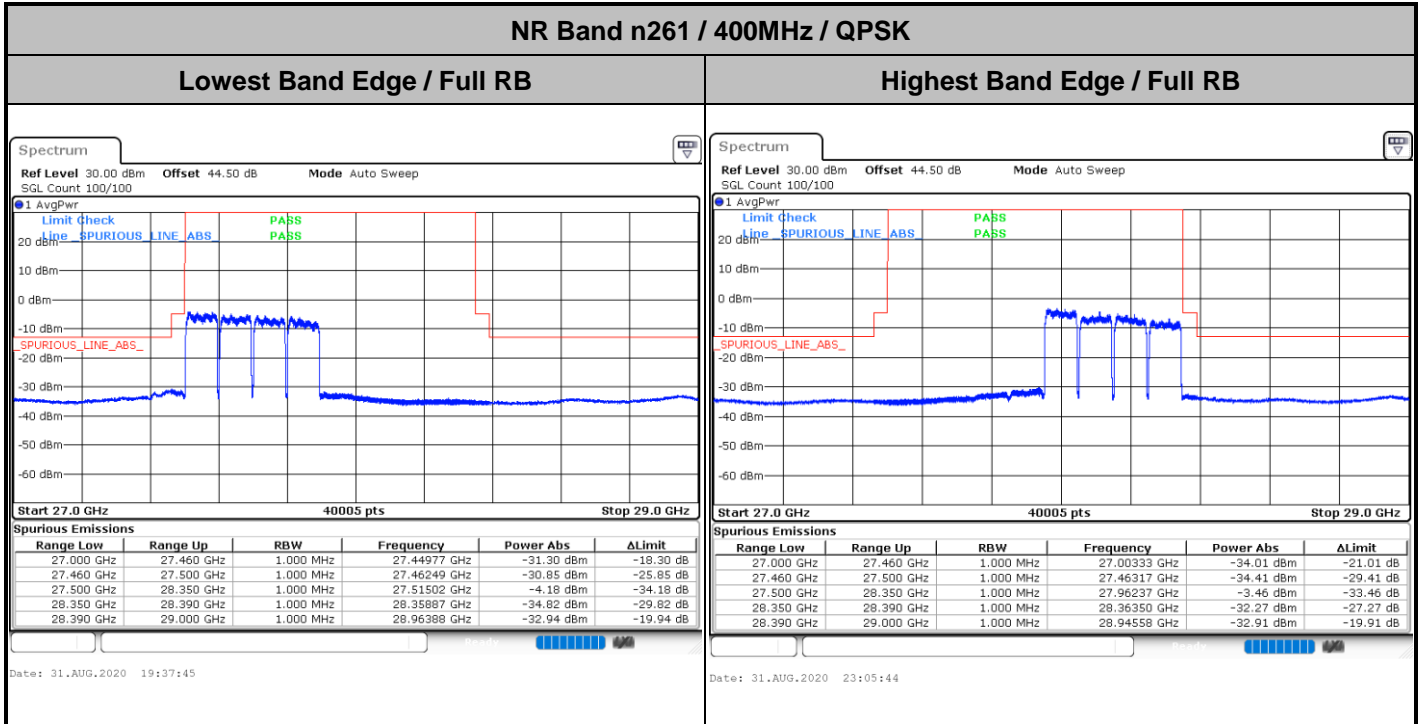


DFT-s-OFDM Module 0

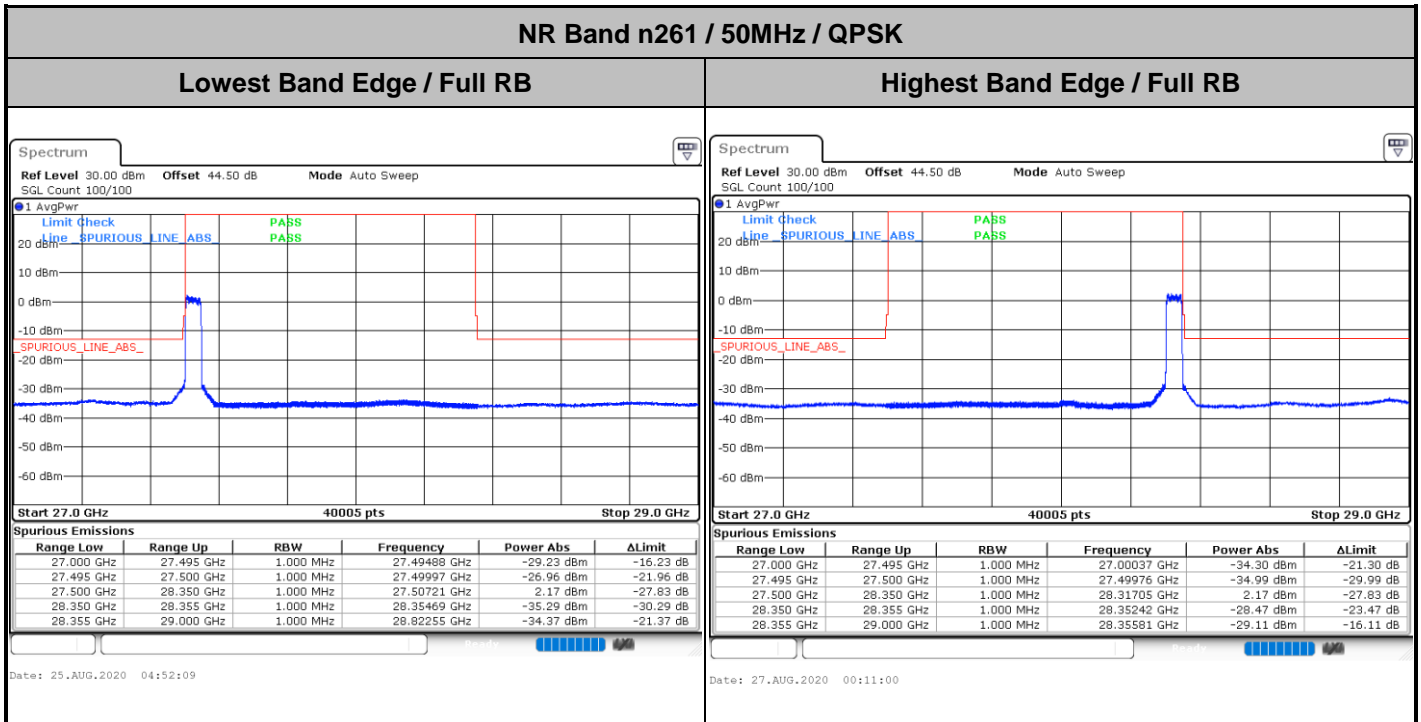




DFT-s-OFDM Module 0

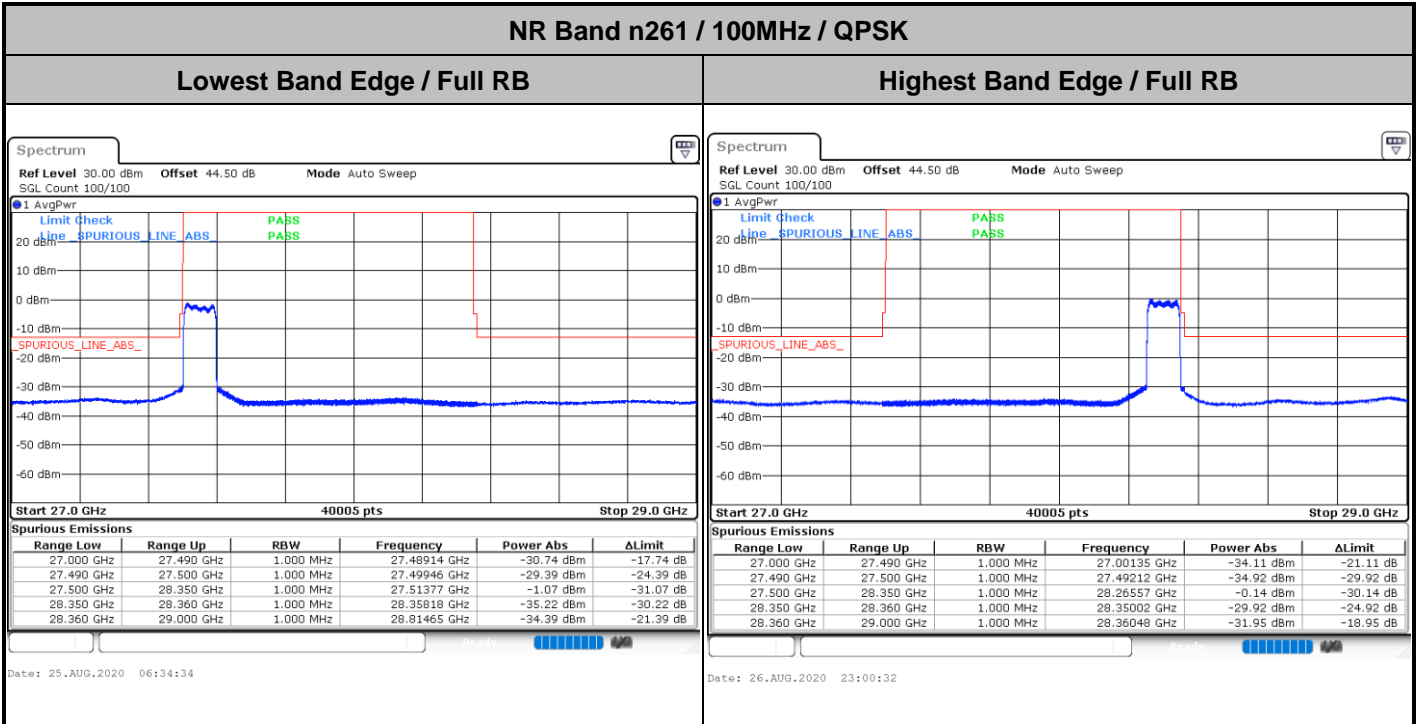


CP-OFDM Module 0

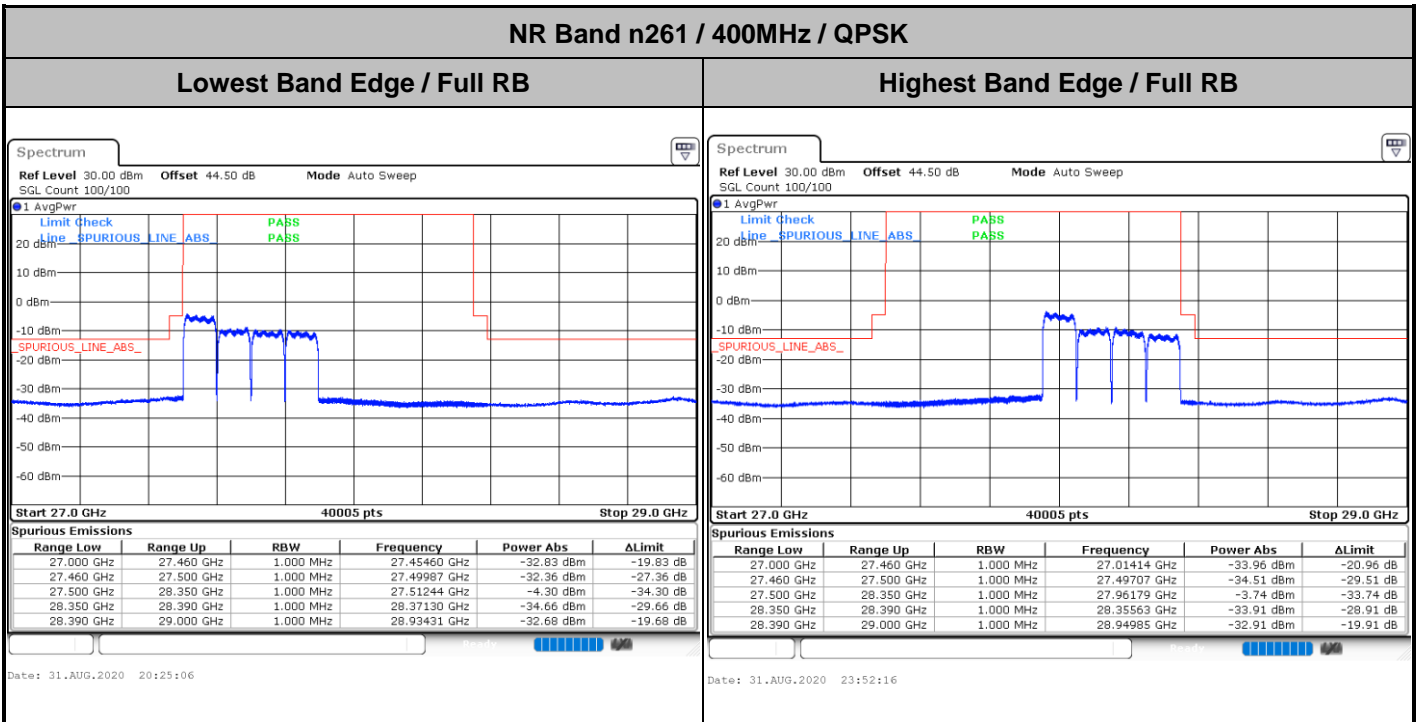




CP-OFDM Module 0



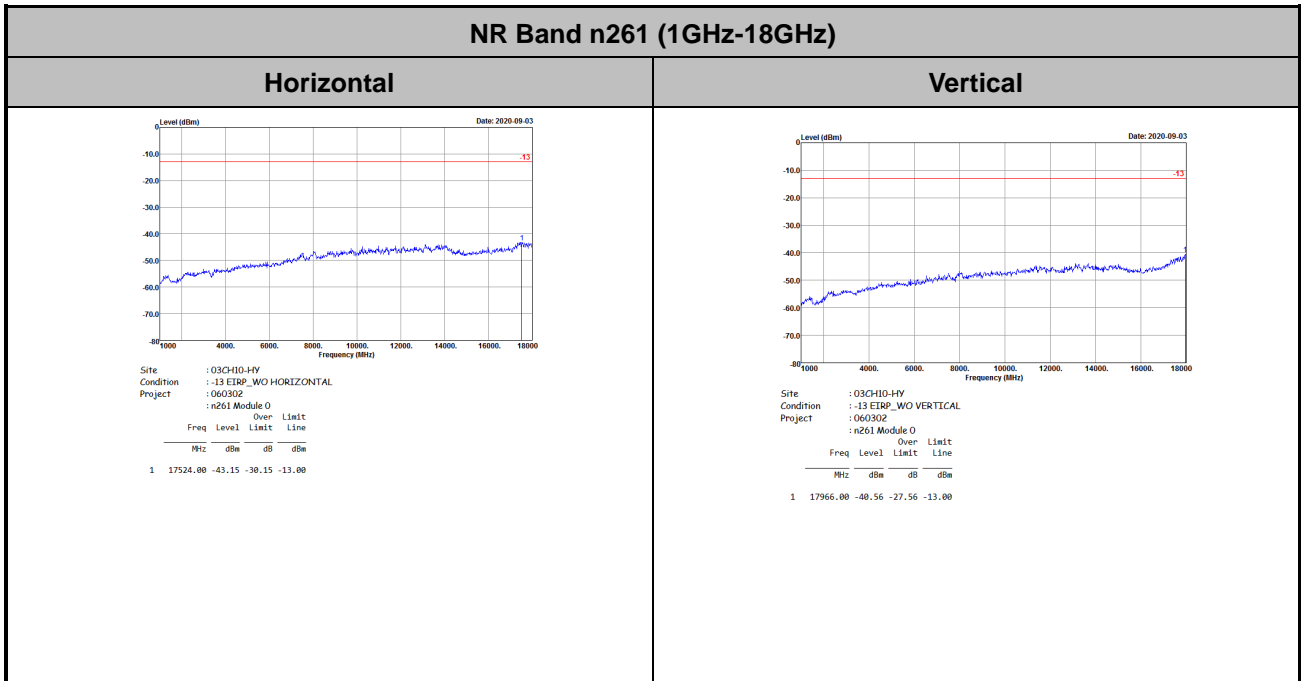
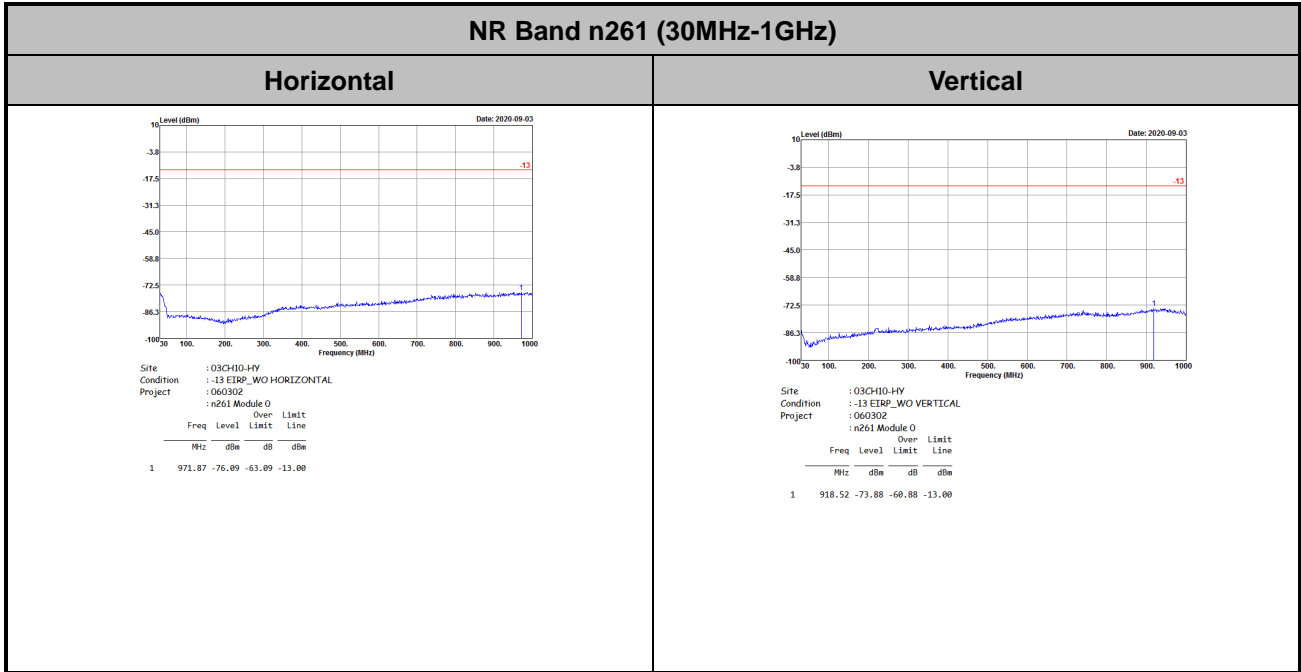
CP-OFDM Module 0





Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz. Only the noise floor is reported.



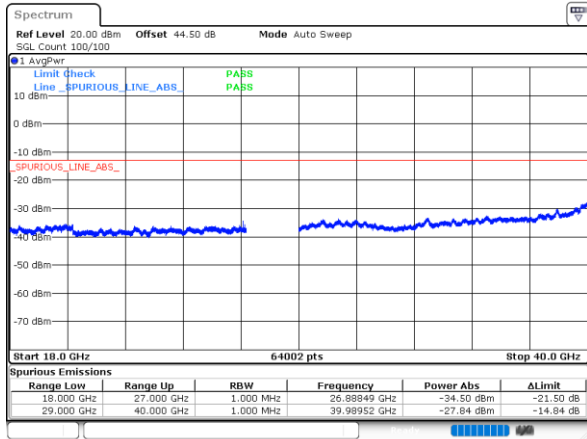


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module 0

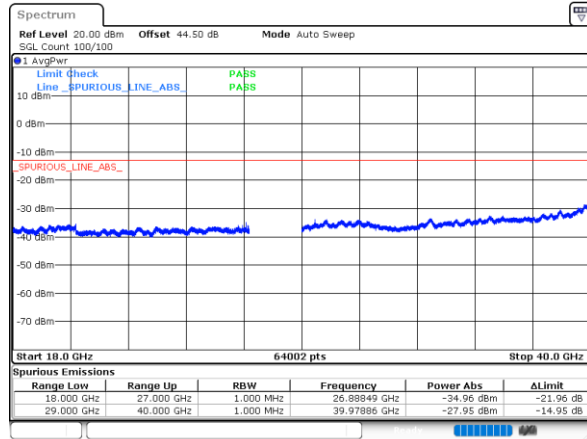
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



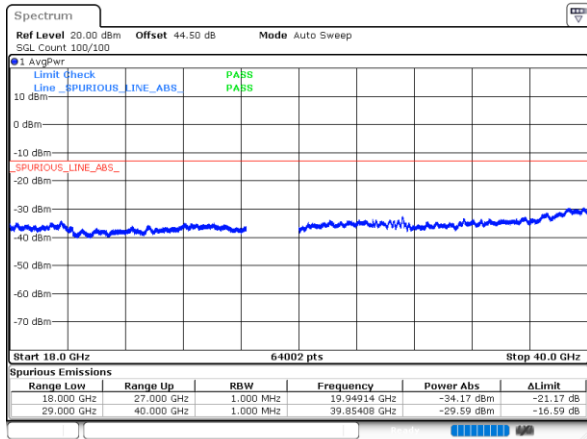
Date: 25_AUG.2020 04:43:30

Lowest Channel / 100MHz



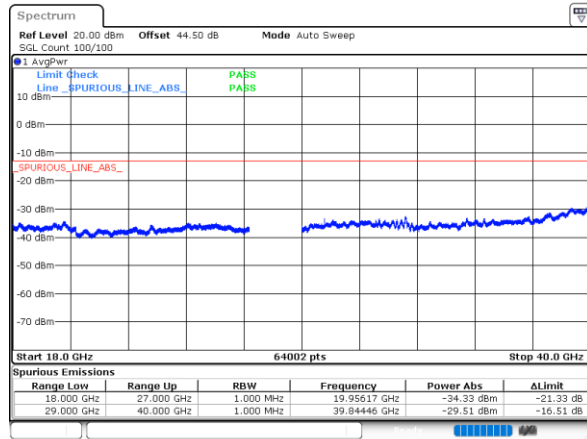
Date: 25_AUG.2020 05:13:57

Middle Channel / 50MHz



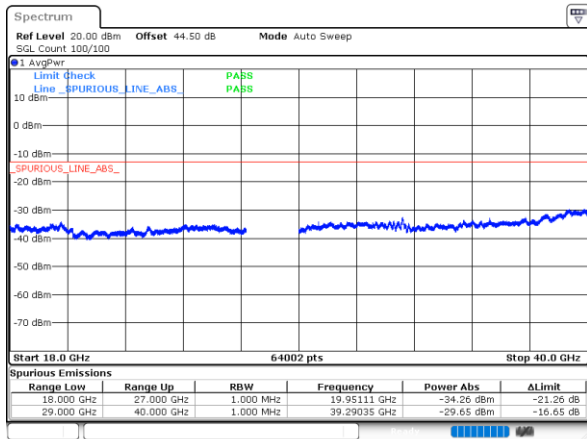
Date: 26_AUG.2020 20:46:55

Middle Channel / 100MHz



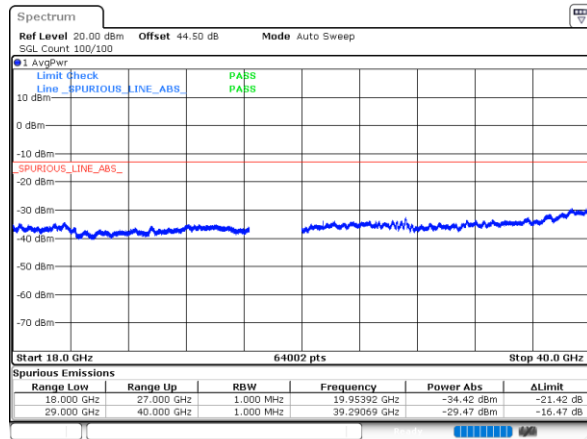
Date: 26_AUG.2020 21:11:16

Highest Channel / 50MHz



Date: 26_AUG.2020 23:58:05

Highest Channel / 100MHz



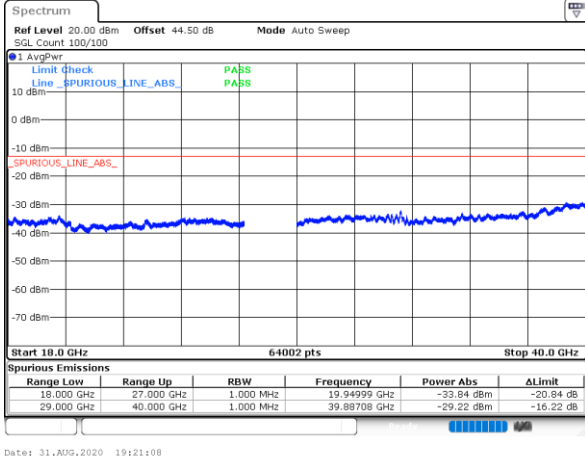
Date: 26_AUG.2020 22:44:12



DFT-s-OFDM Module 0

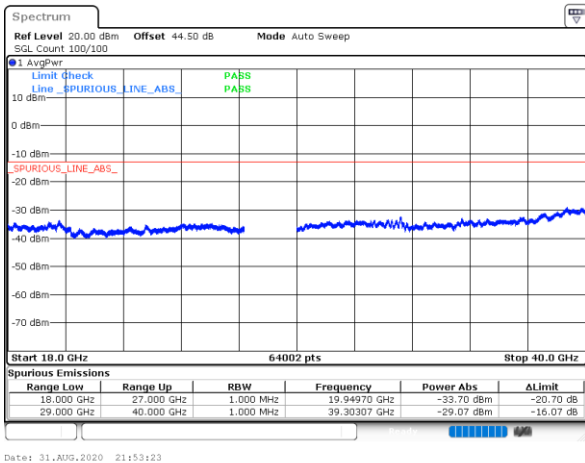
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 400MHz



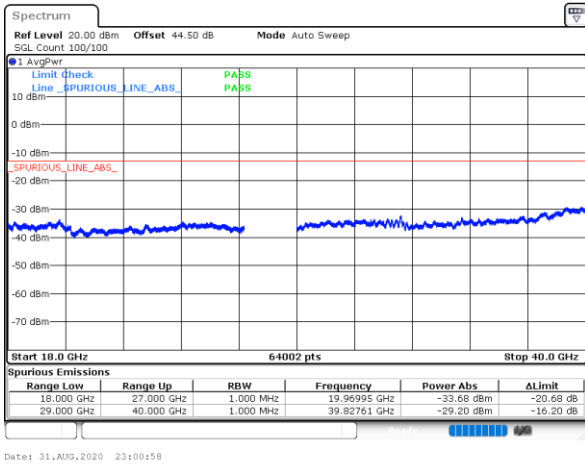
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



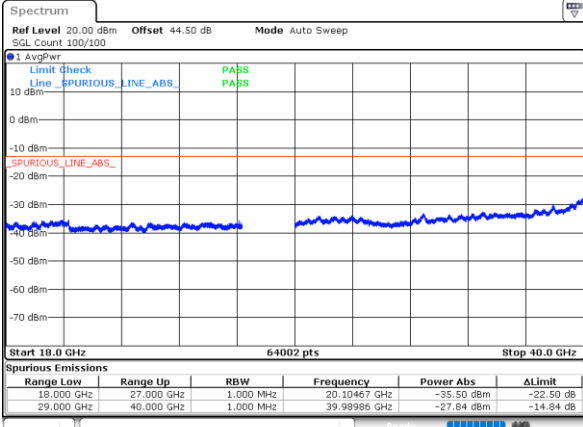
intentionally blank



CP-OFDM Module 0

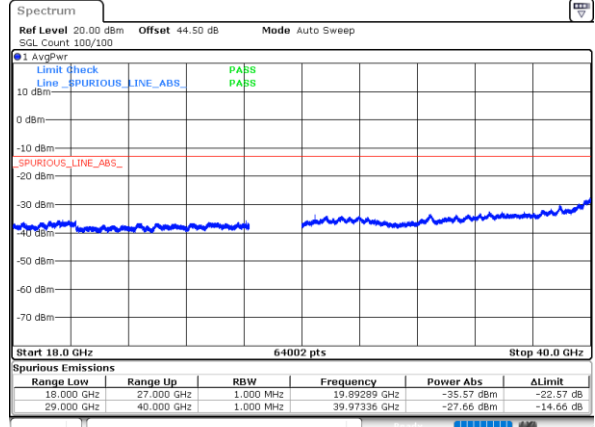
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



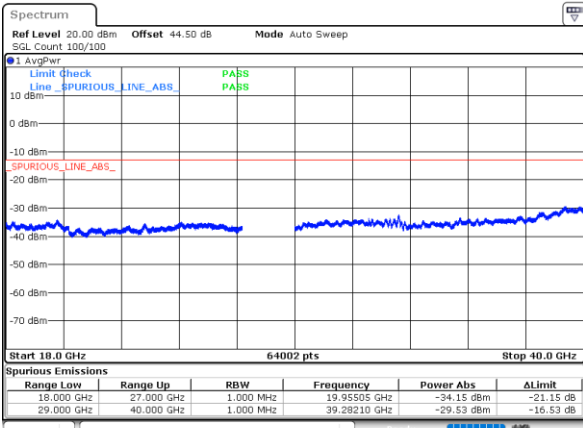
Date: 25_AUG.2020 04:47:13

Lowest Channel / 100MHz



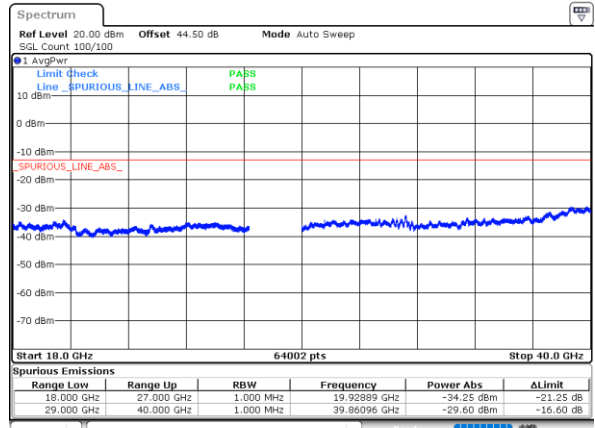
Date: 25_AUG.2020 06:29:40

Middle Channel / 50MHz



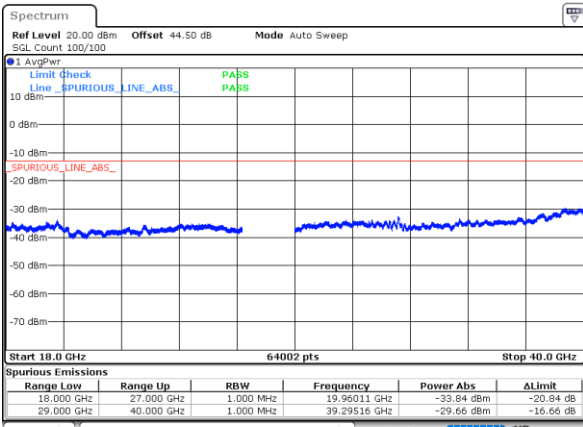
Date: 26_AUG.2020 21:00:00

Middle Channel / 100MHz



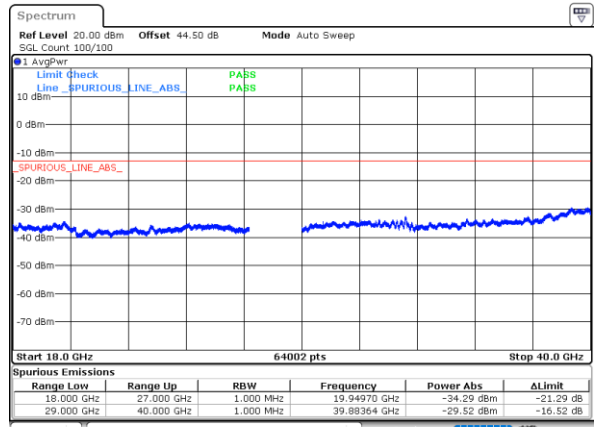
Date: 26_AUG.2020 22:33:55

Highest Channel / 50MHz



Date: 27_AUG.2020 00:15:30

Highest Channel / 100MHz



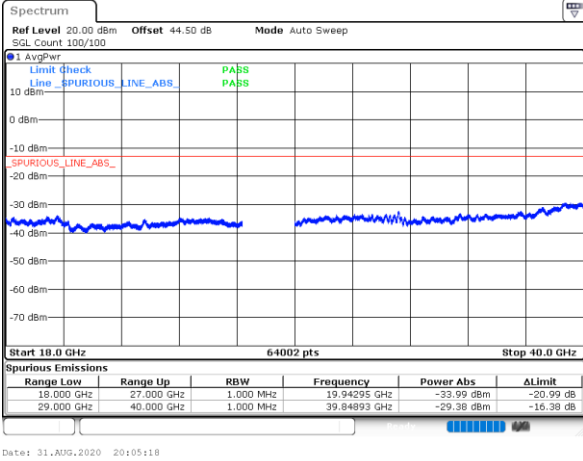
Date: 26_AUG.2020 23:12:15



CP-OFDM Module 0

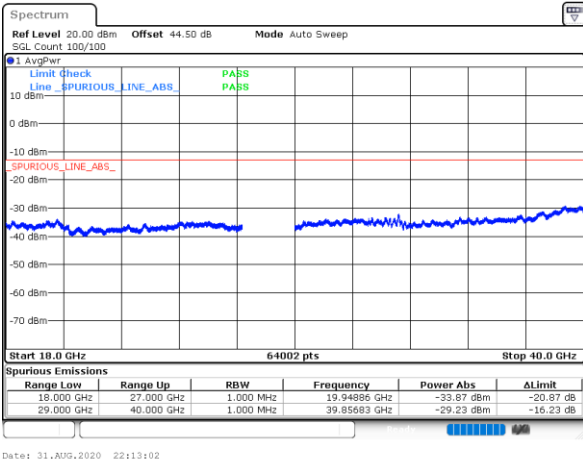
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 400MHz



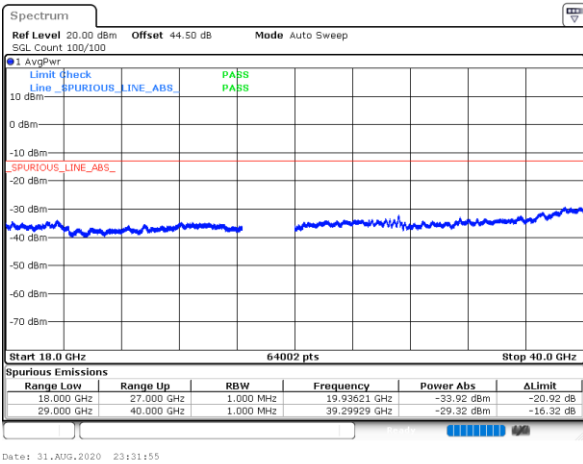
intentionally blank

Middle Channel / 400MHz



intentionally blank

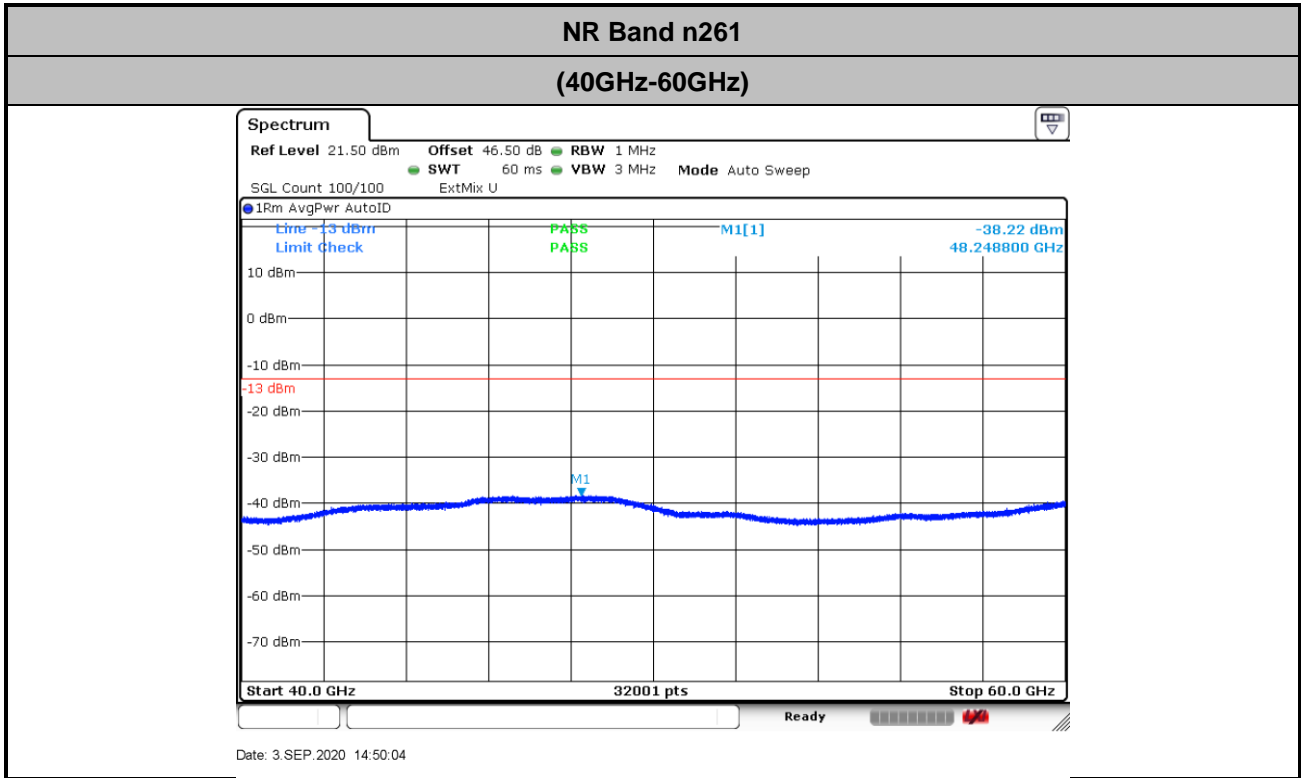
Highest Channel / 400MHz



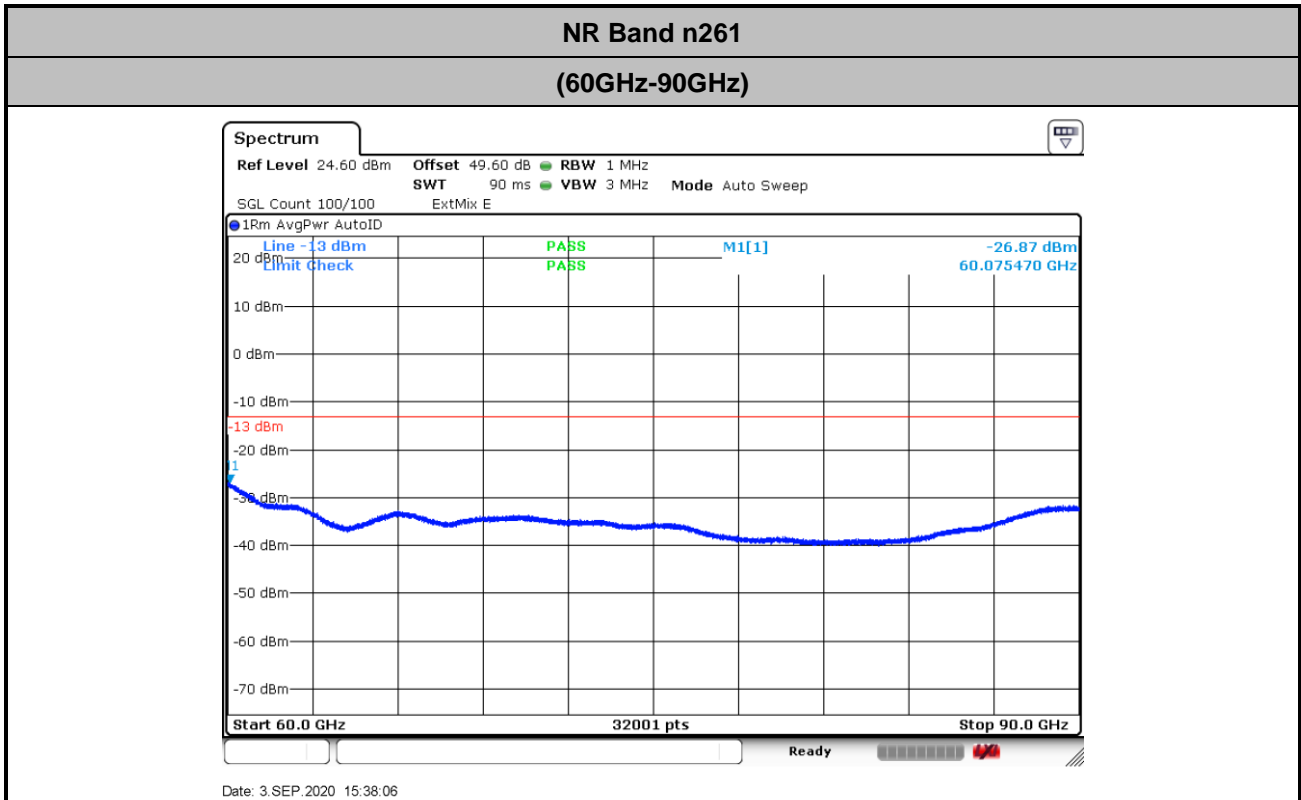
intentionally blank



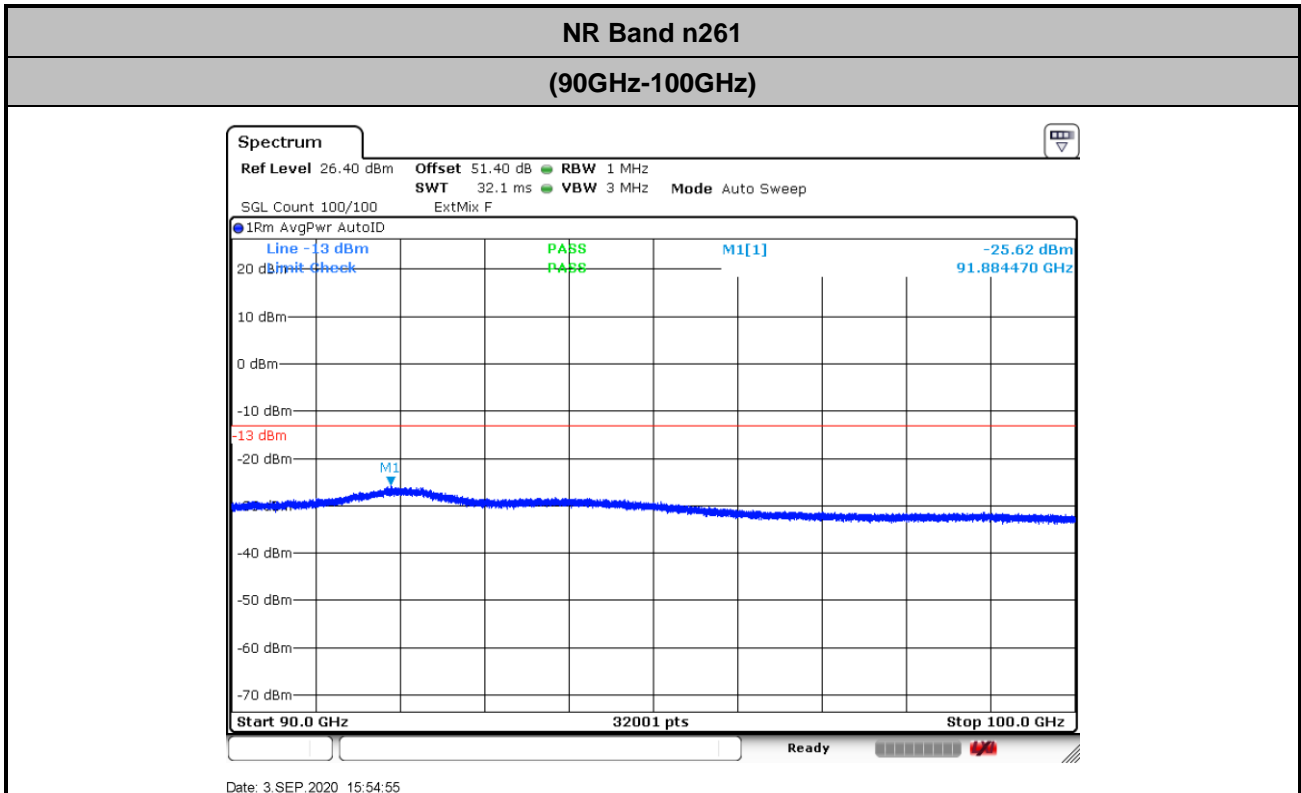
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.



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



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.2 + 2.2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47 + 2.2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)} \end{aligned}$$



NR Band n261 Module 0 AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.34	-	-	90.32	-	-
Middle CH	45.28	45.42	45.26	90.80	90.32	90.76
Highest CH	45.28	-	-	90.20	-	-

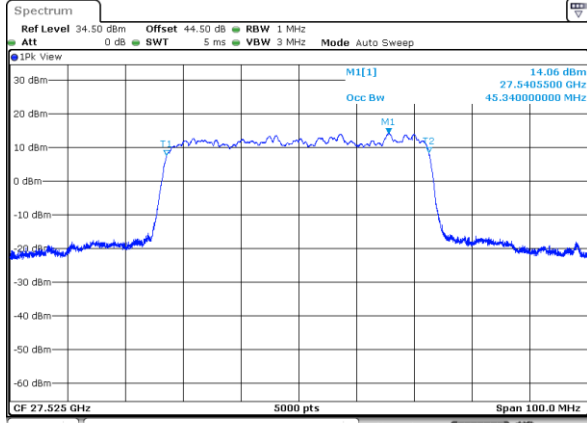
Mode	CP-OFDM Module 0 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.14	-	-	92.56	-	-
Middle CH	45.26	45.46	45.42	92.92	93.16	92.72
Highest CH	45.20	-	-	92.84	-	-



DFT-s-OFDM Module 0

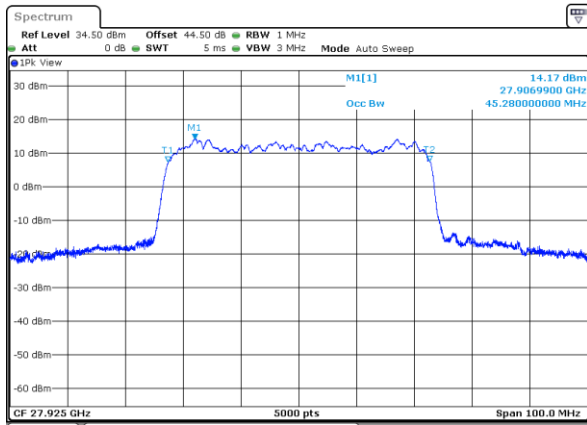
NR Band n261

Lowest Channel / 50MHz / QPSK



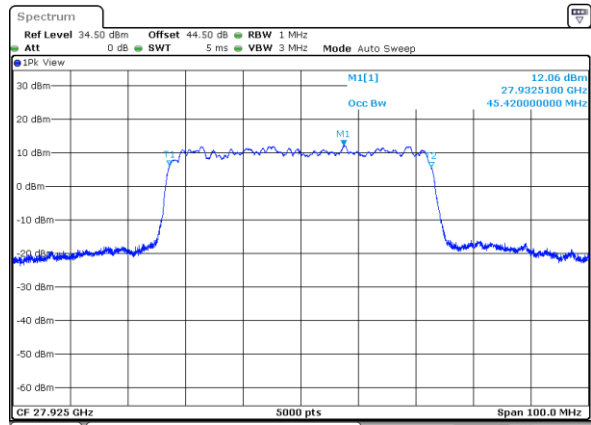
Date: 29_AUG.2020 20:26:52

Middle Channel / 50MHz / QPSK



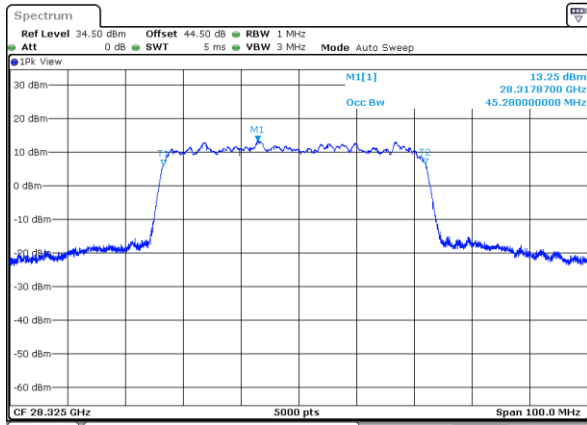
Date: 29_AUG.2020 18:57:26

Middle Channel / 50MHz / 16QAM



Date: 29_AUG.2020 18:56:44

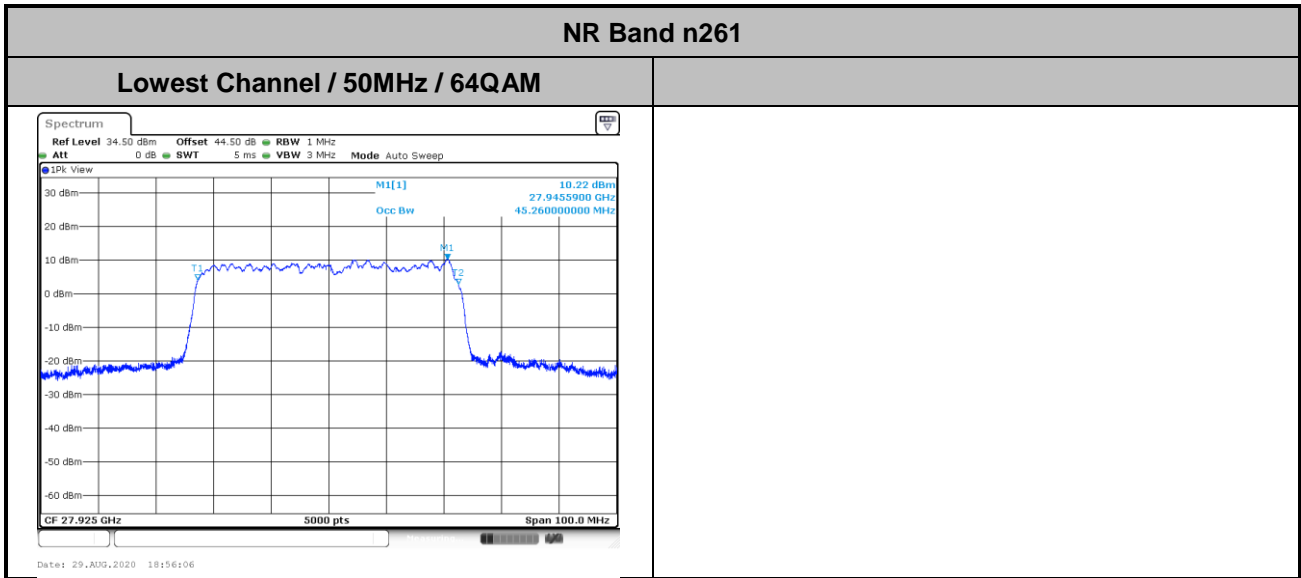
Highest Channel / 50MHz / QPSK



Date: 27_AUG.2020 06:39:04



DFT-s-OFDM Module 0

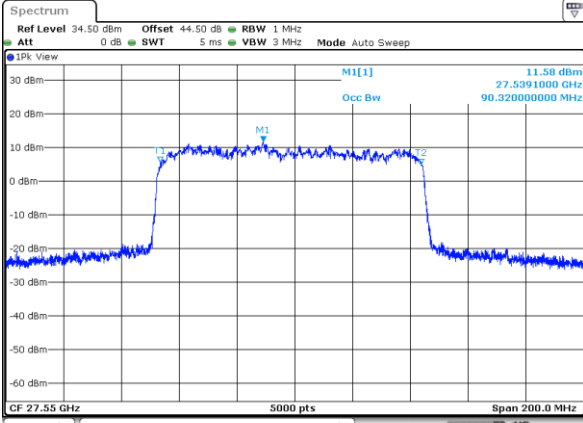




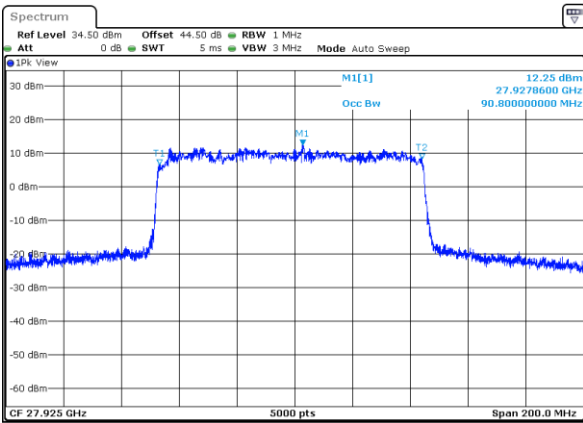
DFT-s-OFDM Module 0

NR Band n261

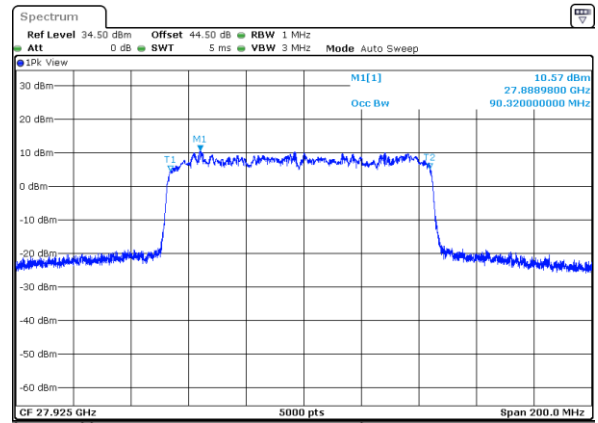
Lowest Channel / 100MHz / QPSK



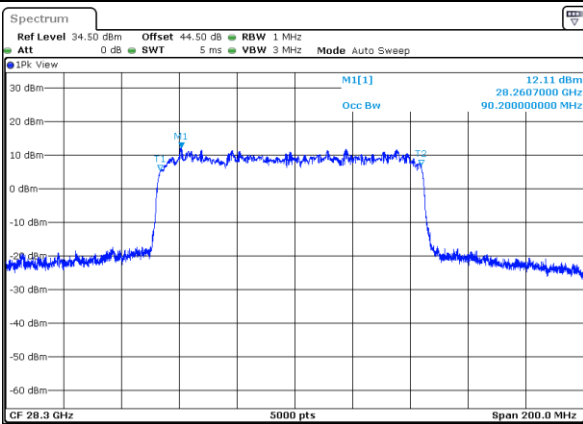
Middle Channel / 100MHz / QPSK



Middle Channel / 100MHz / 16QAM

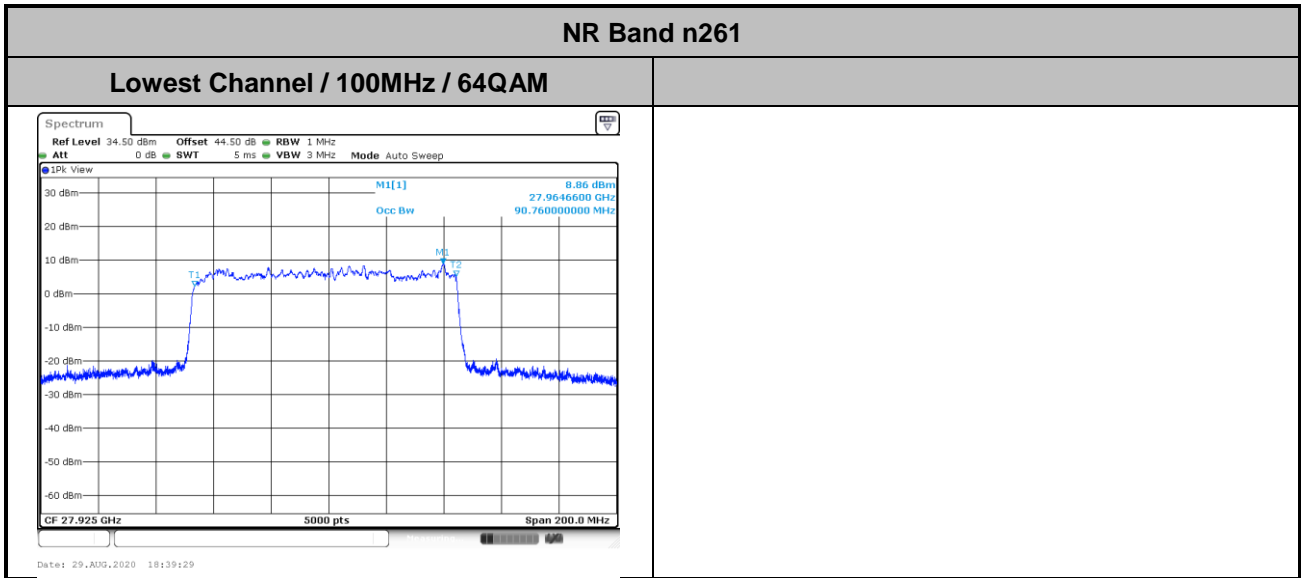


Highest Channel / 100MHz / QPSK





DFT-s-OFDM Module 0

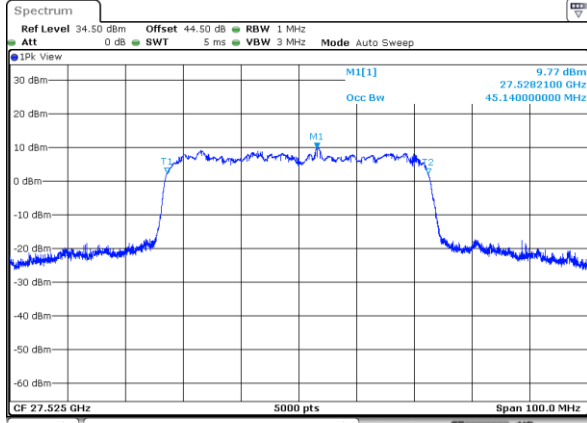




CP-OFDM Module 0

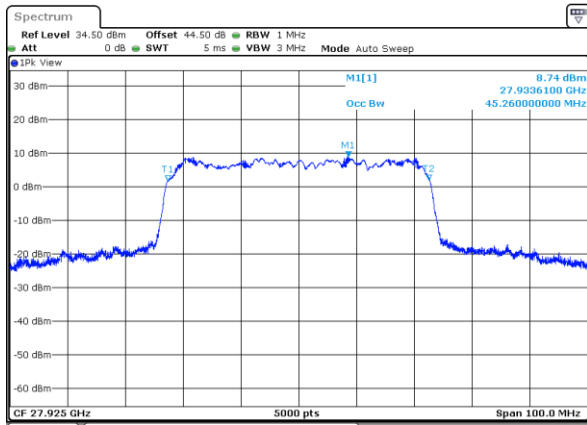
NR Band n261

Lowest Channel / 50MHz / QPSK



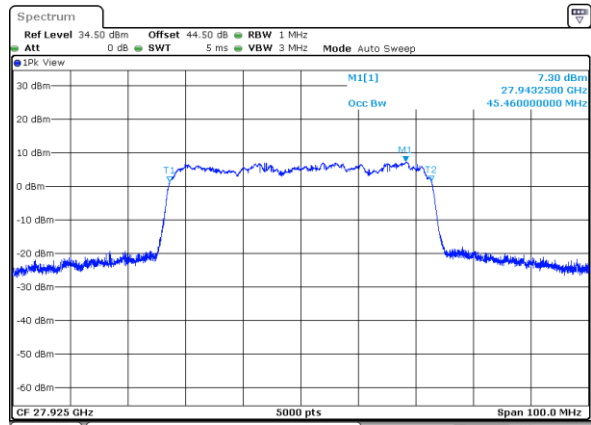
Date: 29_AUG.2020 20:42:44

Middle Channel / 50MHz / QPSK



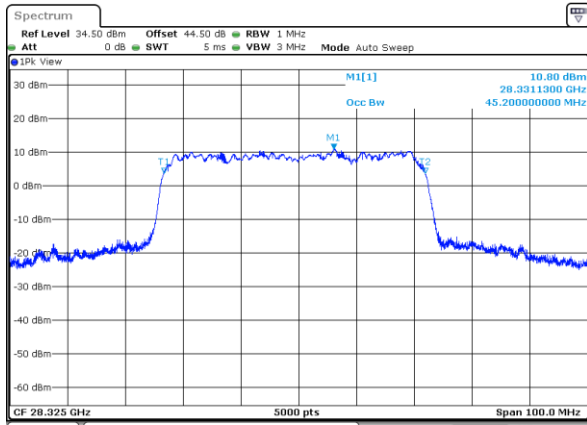
Date: 29_AUG.2020 19:05:16

Middle Channel / 50MHz / 16QAM



Date: 29_AUG.2020 19:04:37

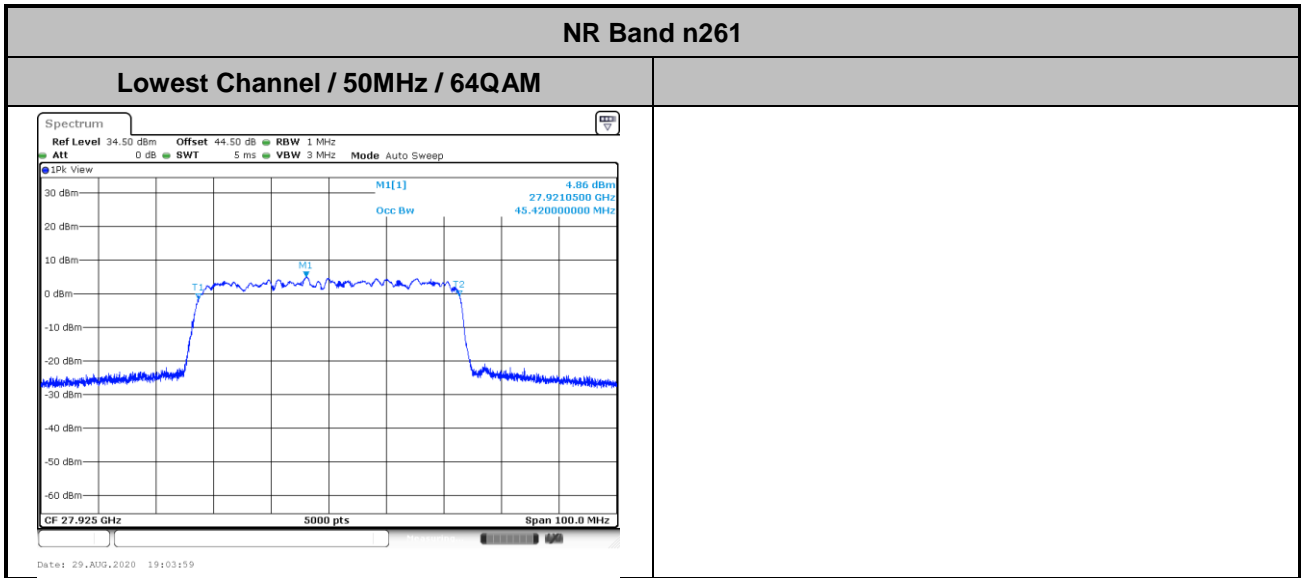
Highest Channel / 50MHz / QPSK



Date: 27_AUG.2020 07:03:30



CP-OFDM Module 0

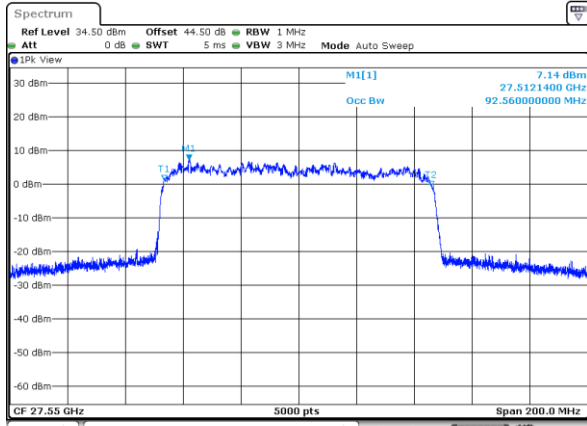




CP-OFDM Module 0

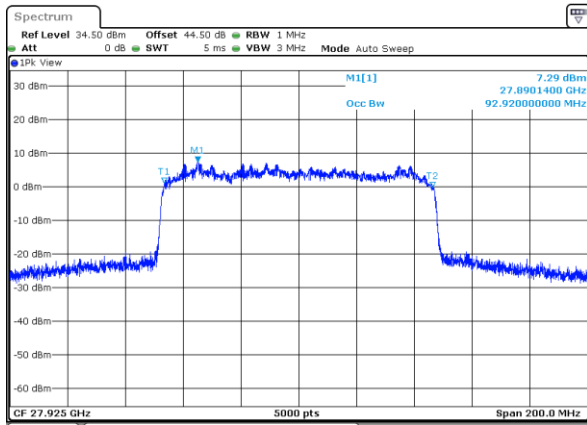
NR Band n261

Lowest Channel / 100MHz / QPSK



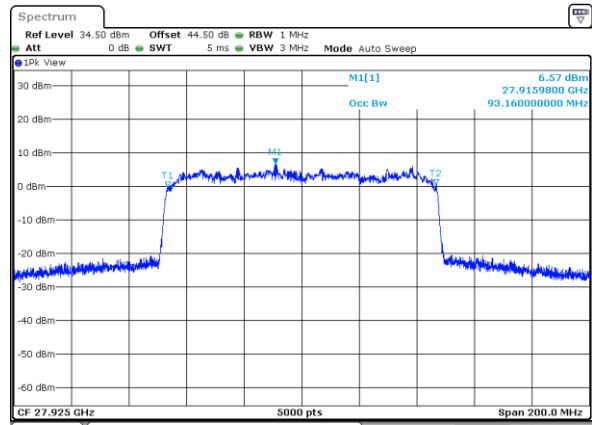
Date: 29_AUG.2020 22:28:50

Middle Channel / 100MHz / QPSK



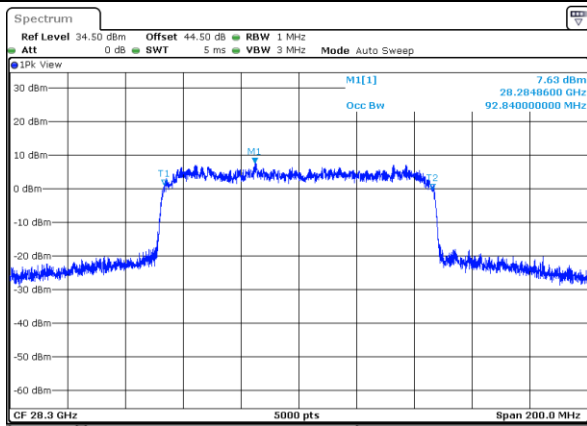
Date: 29_AUG.2020 18:49:58

Middle Channel / 100MHz / 16QAM



Date: 29_AUG.2020 18:49:17

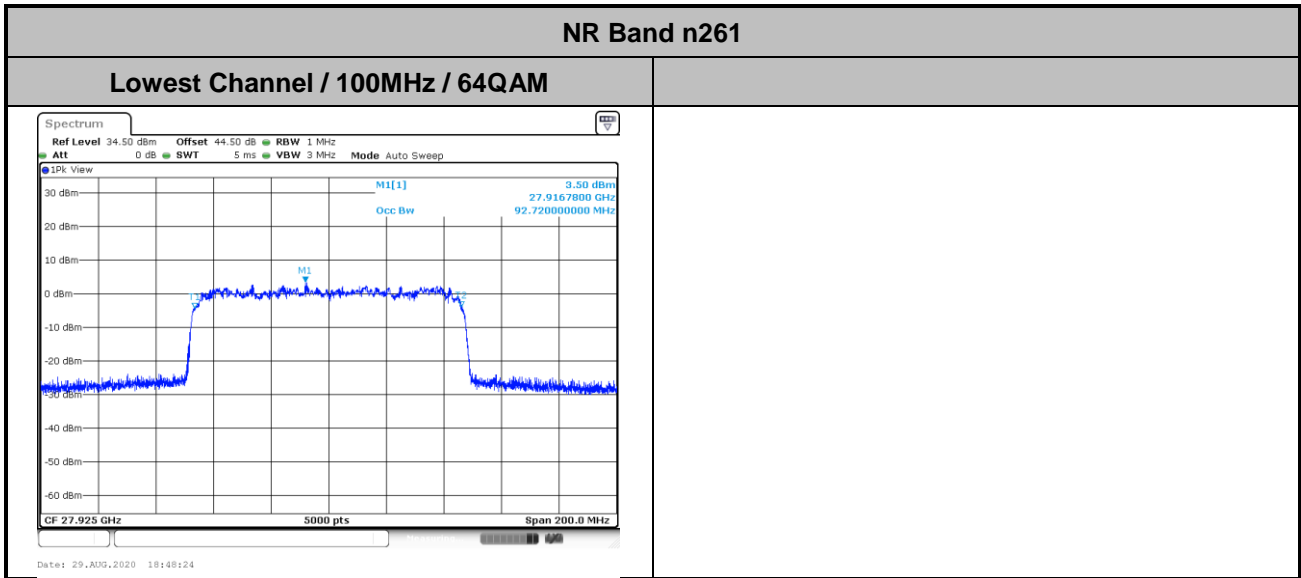
Highest Channel / 50MHz / QPSK



Date: 27_AUG.2020 08:08:53



CP-OFDM Module 0





Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-14.79	-14.07
	>10%OB	≤ -13	-28.9	-29.04
High CH	0~10%OB	≤ -5	-20.2	-27.25
	>10%OB	≤ -13	-29.3	-33.25
Result			Compliance	

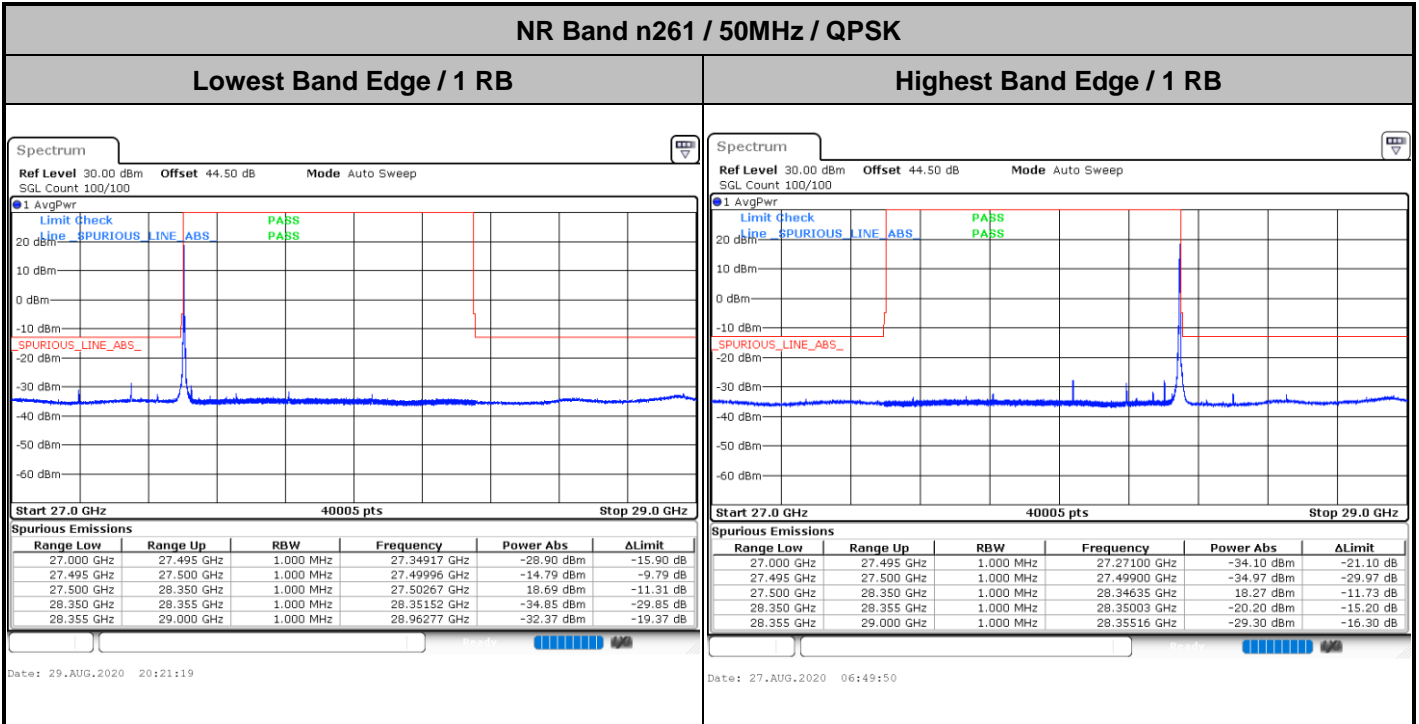
Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-16.36	-19.61
	>10%OB	≤ -13	-30.95	-31.35
High CH	0~10%OB	≤ -5	-22.49	-18.26
	>10%OB	≤ -13	-31.43	-33.21
Result			Compliance	

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-24.62	-27.45
	>10%OB	≤ -13	-26.32	-28.93
High CH	0~10%OB	≤ -5	-25.12	-27.02
	>10%OB	≤ -13	-26.53	-29.47
Result			Compliance	

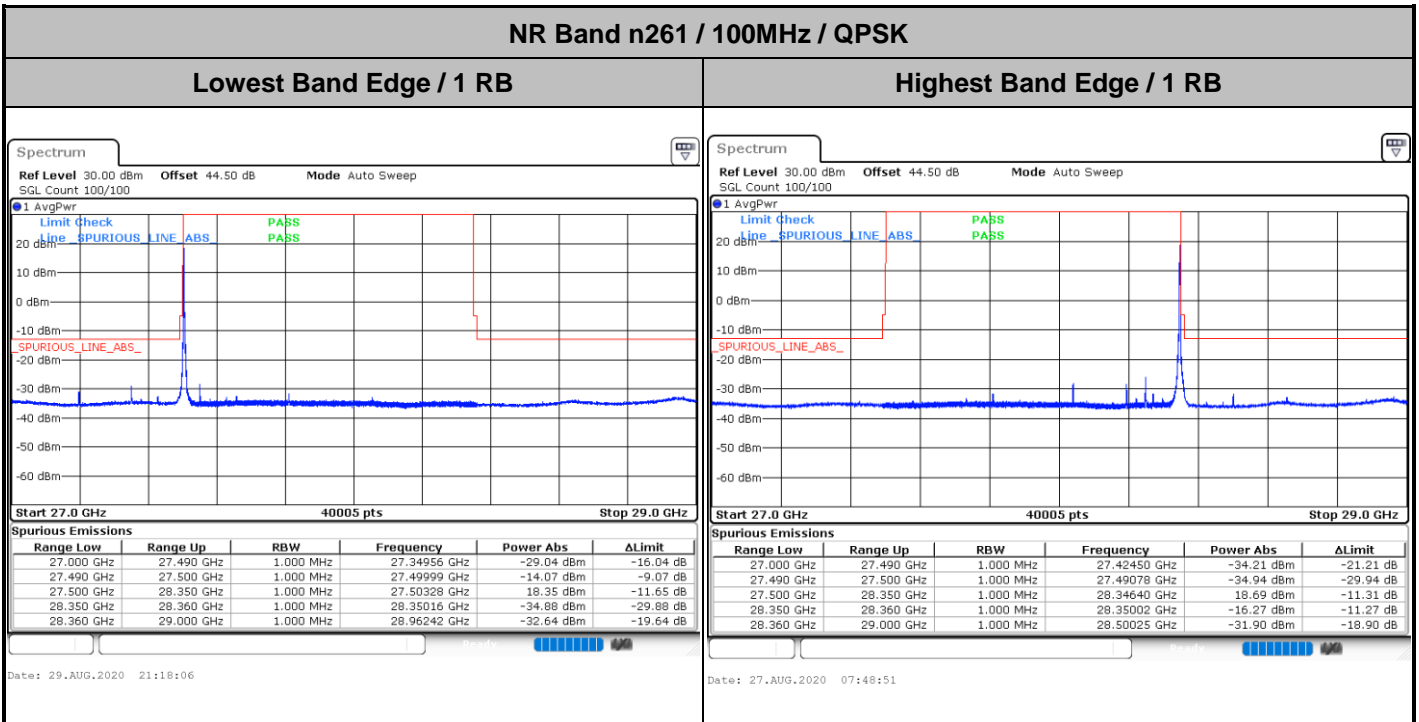
Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-27.56	-29.57
	>10%OB	≤ -13	-28.77	-30.73
High CH	0~10%OB	≤ -5	-25.73	-27.73
	>10%OB	≤ -13	-28.43	-30.21
Result			Compliance	



DFT-s-OFDM Module 0

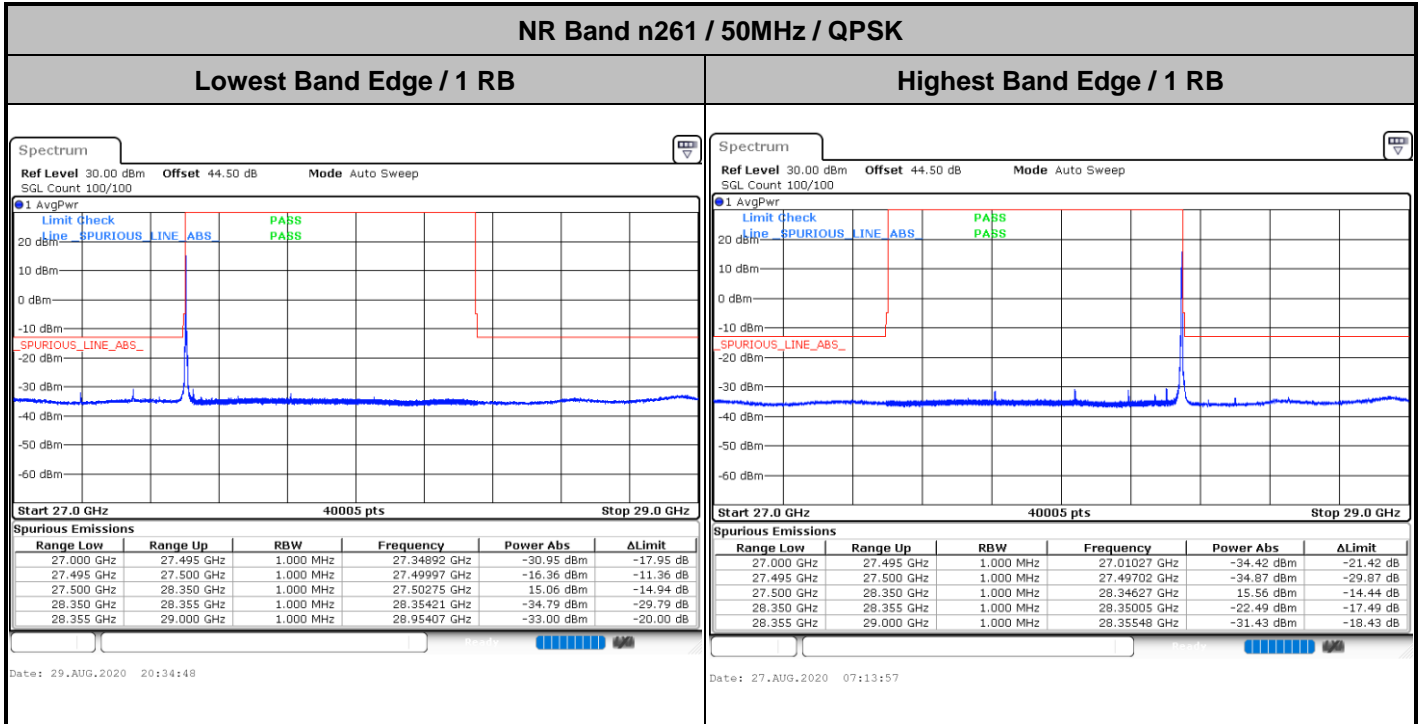


DFT-s-OFDM Module 0

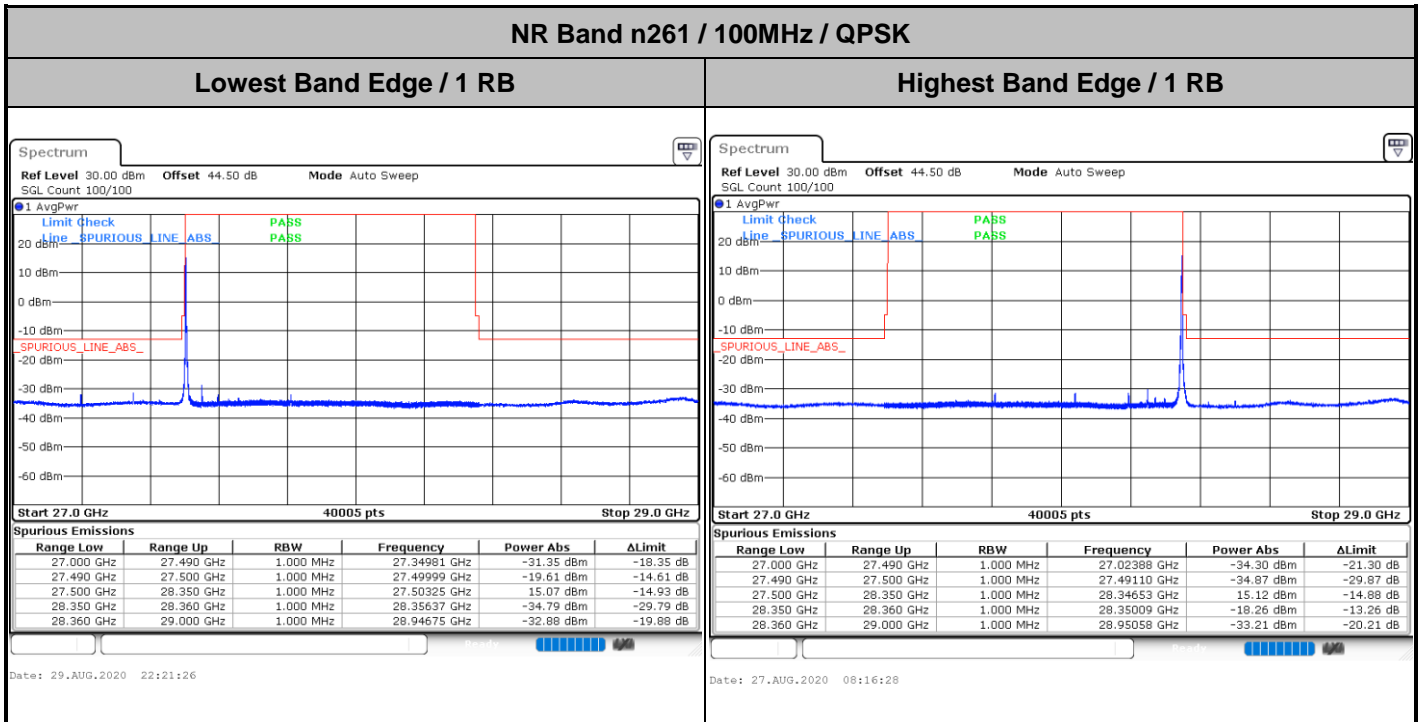




CP-OFDM Module 0

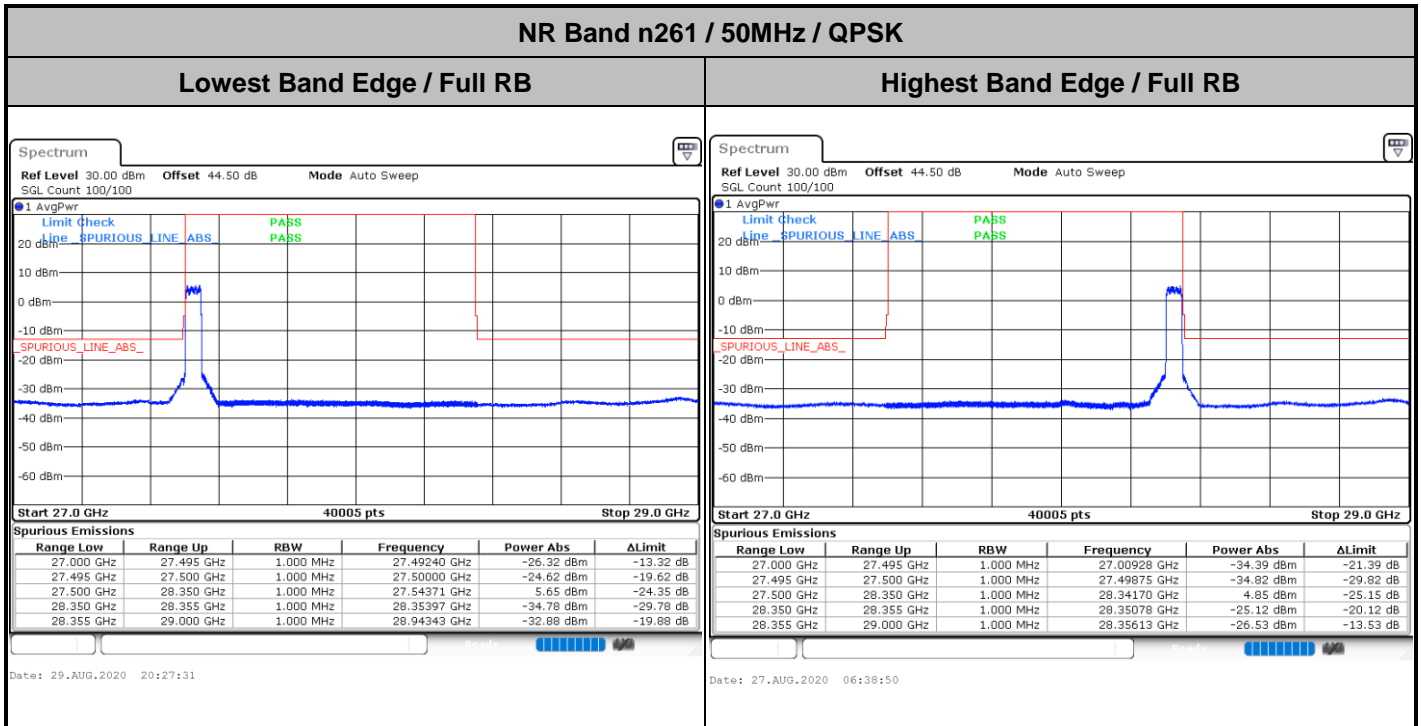


CP-OFDM Module 0





DFT-s-OFDM Module 0



DFT-s-OFDM Module 0

