

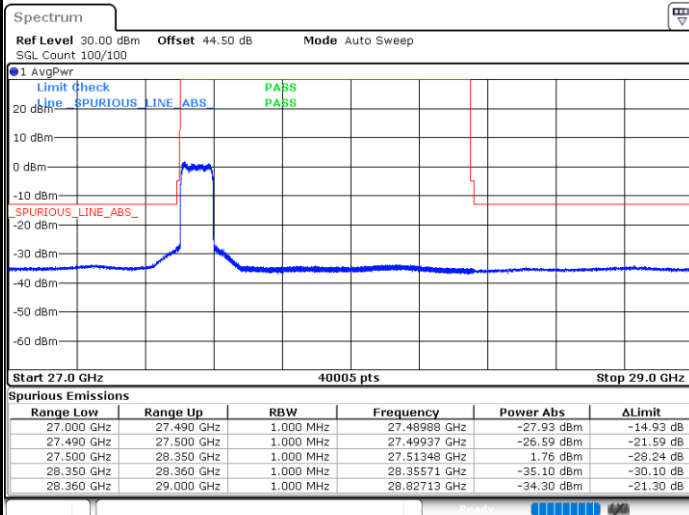


CP-OFDM Module 1

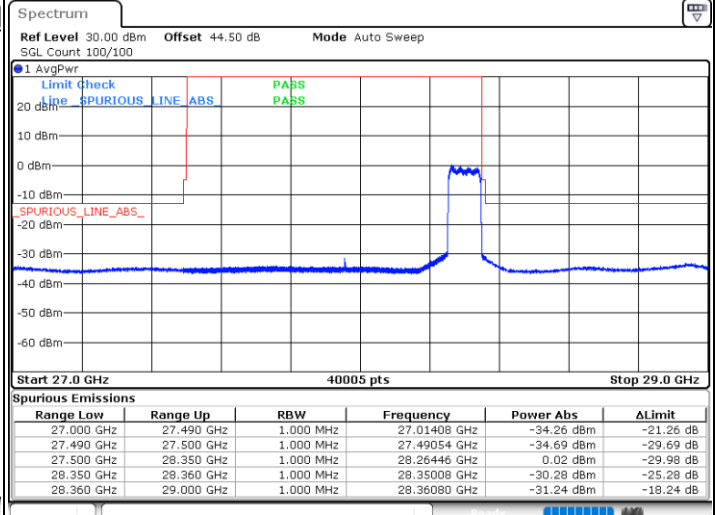
NR Band n261/ 100MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.AUG.2020 14:47:48



Date: 25.AUG.2020 11:08:36

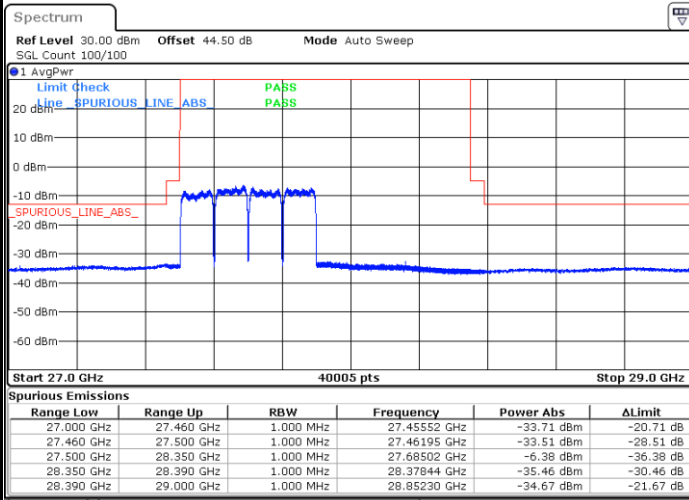


CP-OFDM Module 1

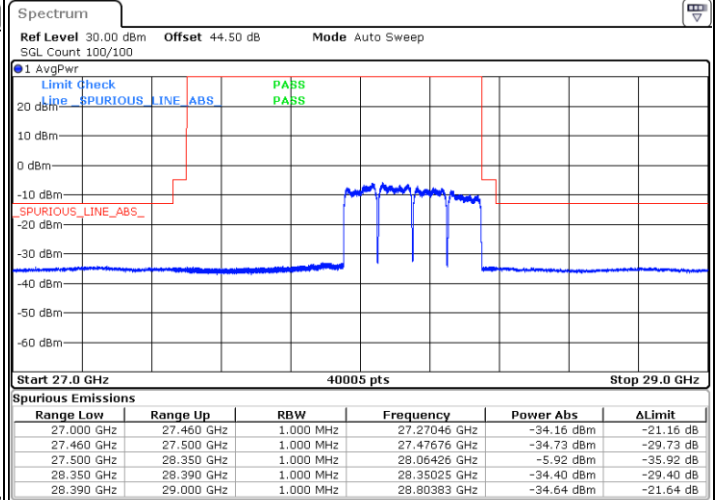
NR Band n261/ 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.SEP.2020 18:14:44



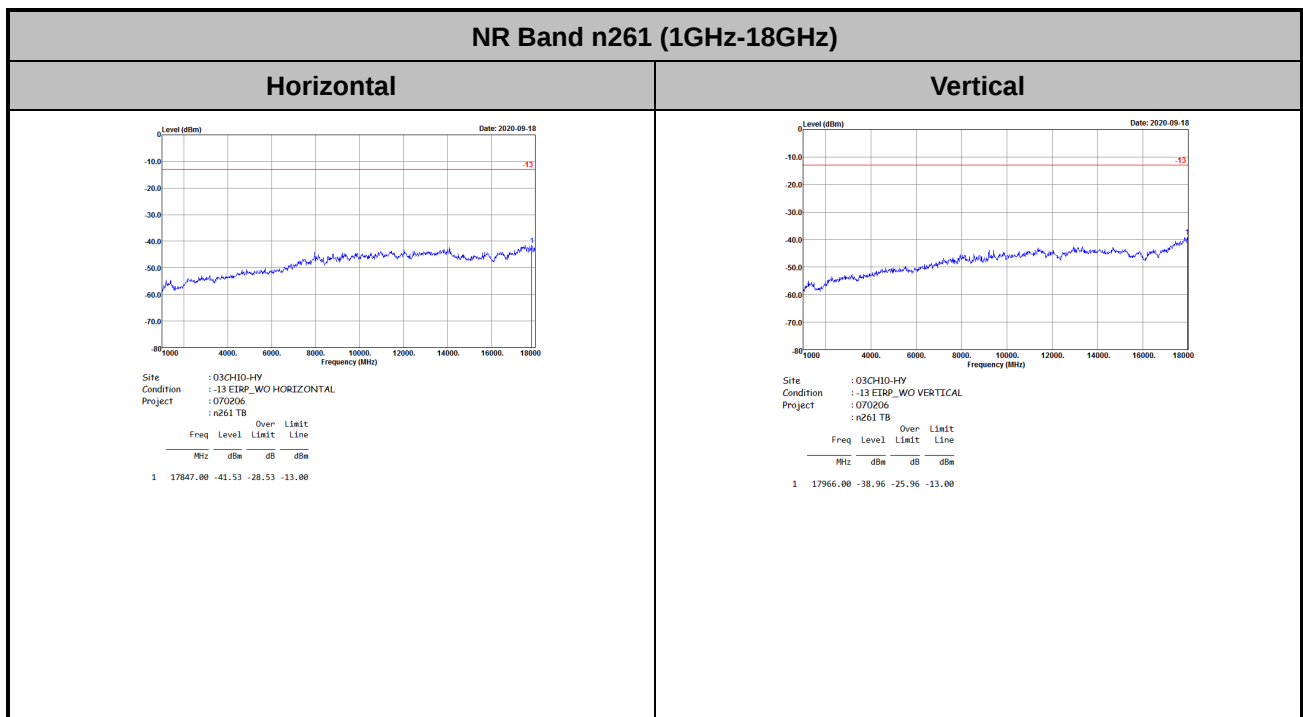
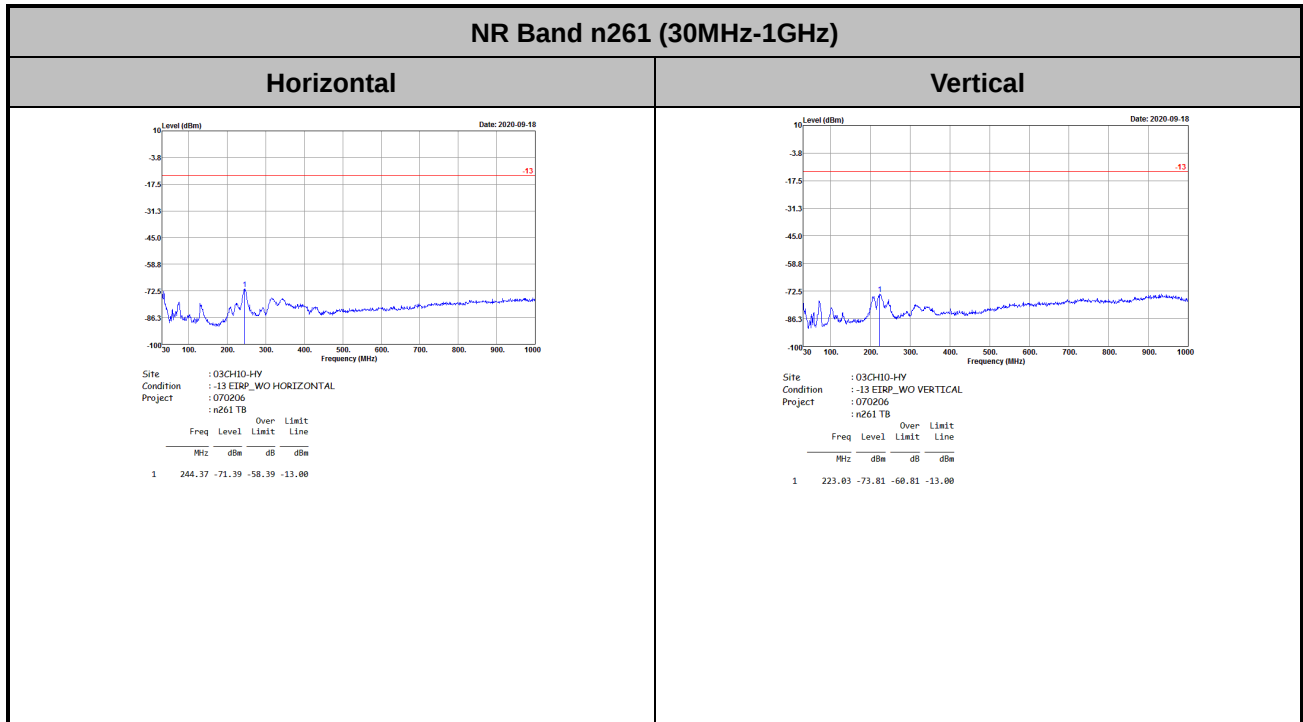
Date: 6.SEP.2020 20:52:10



Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

Only the noise floor is reported.



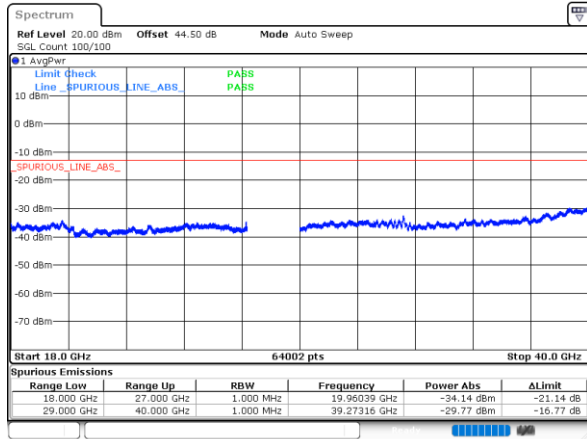


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

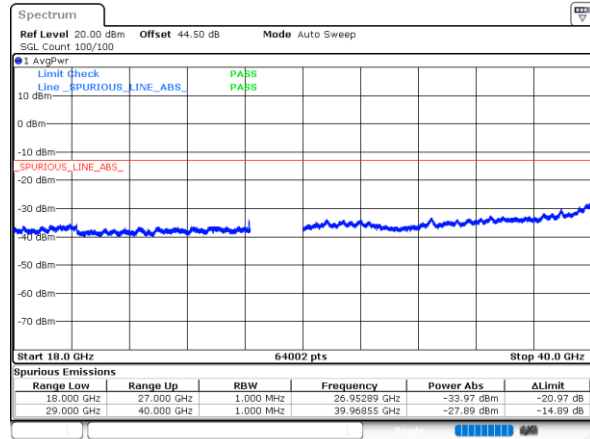
DFT-s-OFDM Module 1

NR Band n261BPSK (18-40GHz)

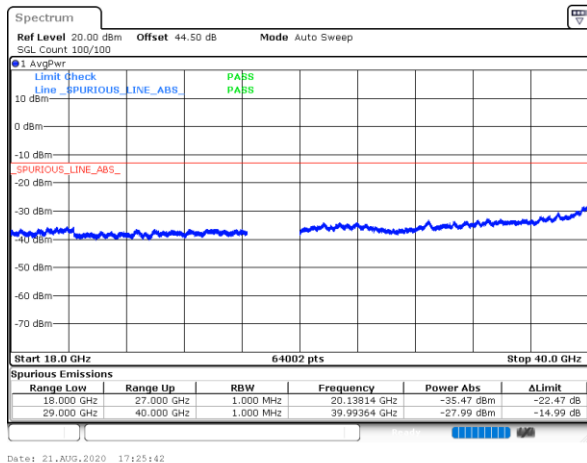
Lowest Channel / 50MHz



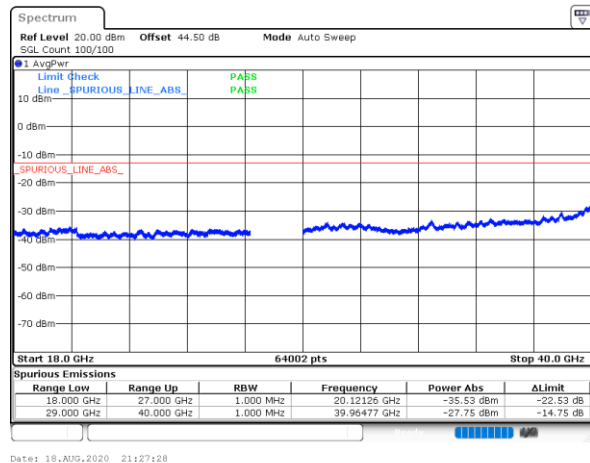
Lowest Channel / 100MHz



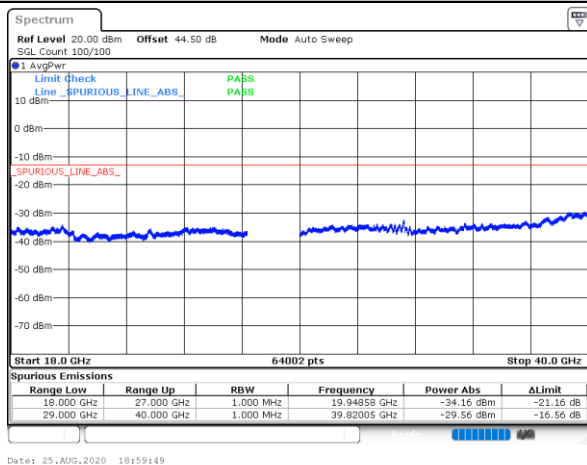
Middle Channel / 50MHz



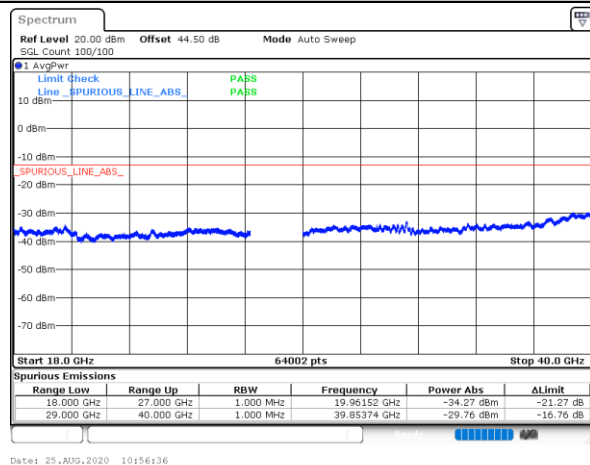
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

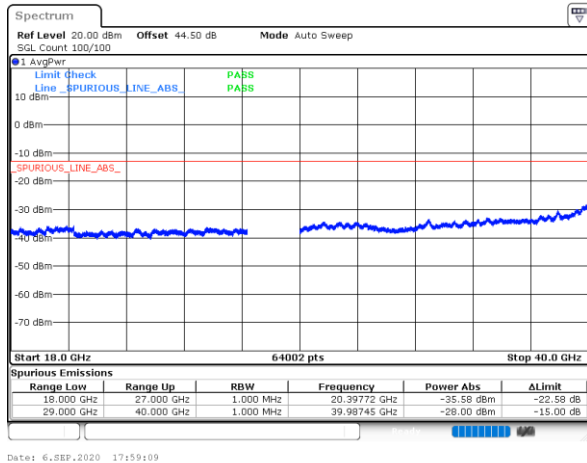




DFT-s-OFDM Module 1

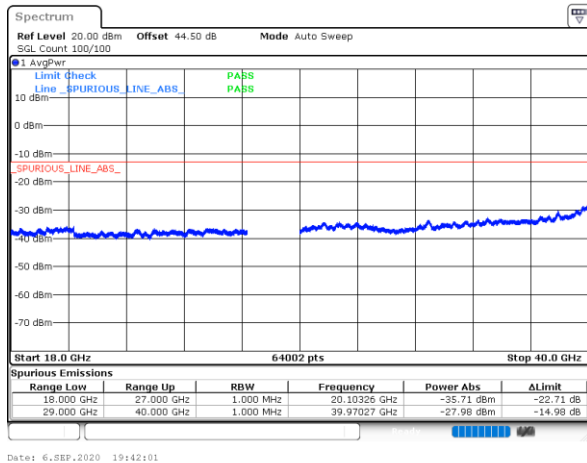
NR Band n261BPSK (18-40GHz)

Lowest Channel / 400MHz



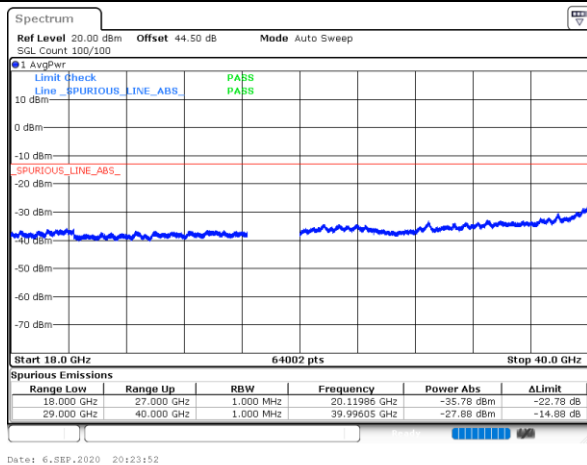
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



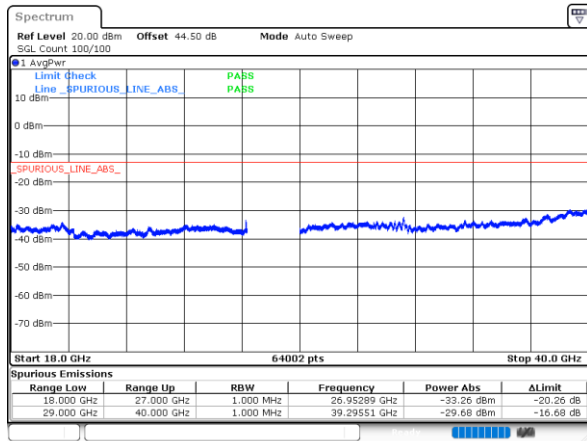
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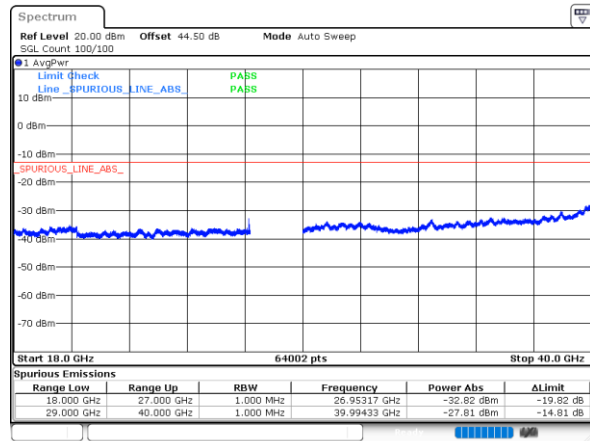
DFT-s-OFDM Module 1

NR Band n261QPSK (18-40GHz)

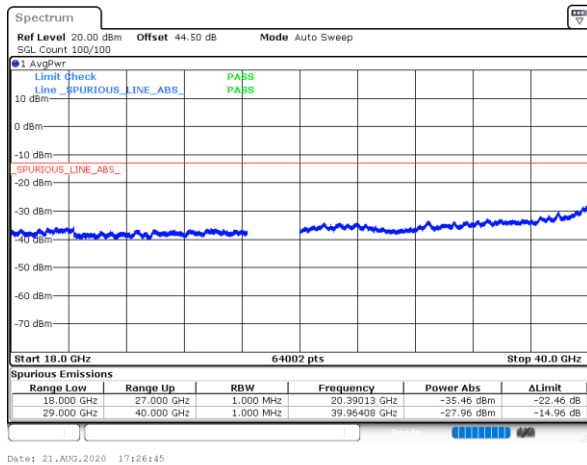
Lowest Channel / 50MHz



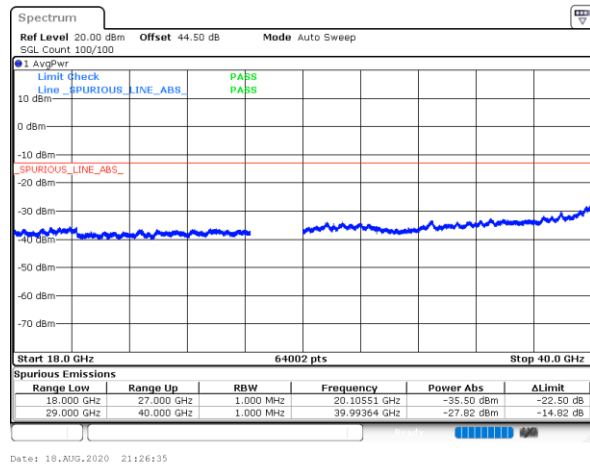
Lowest Channel / 100MHz



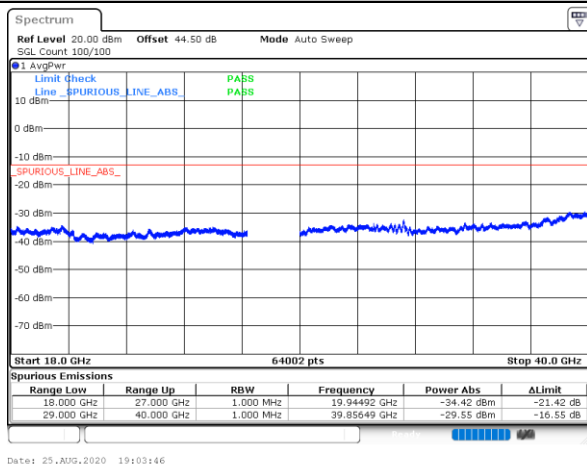
Middle Channel / 50MHz



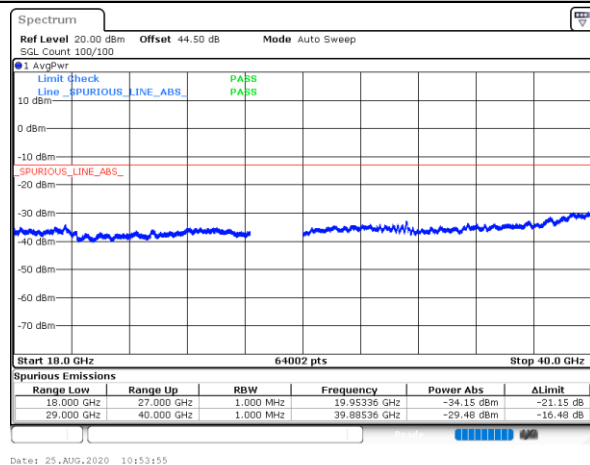
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

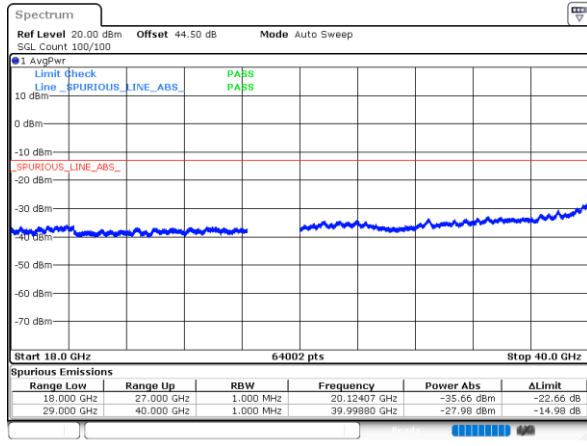




DFT-s-OFDM Module 1

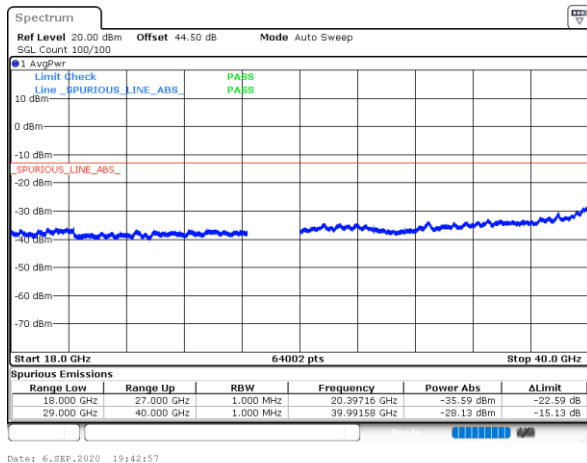
NR Band n261QPSK (18-40GHz)

Lowest Channel / 400MHz



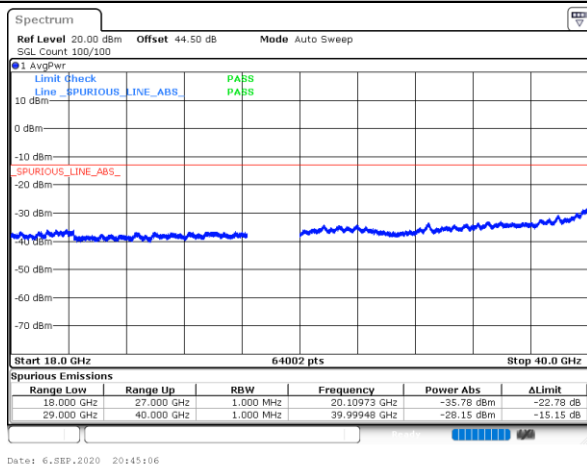
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



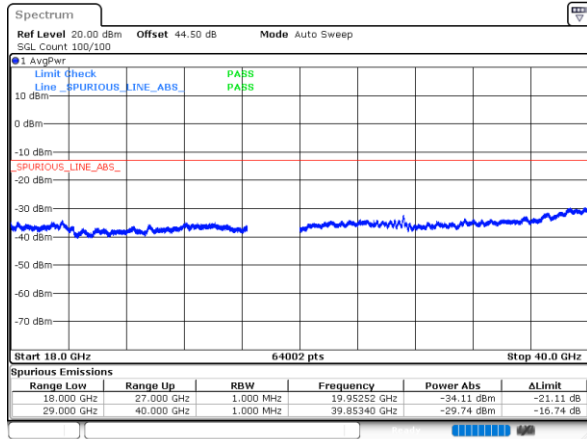
intentionally blank



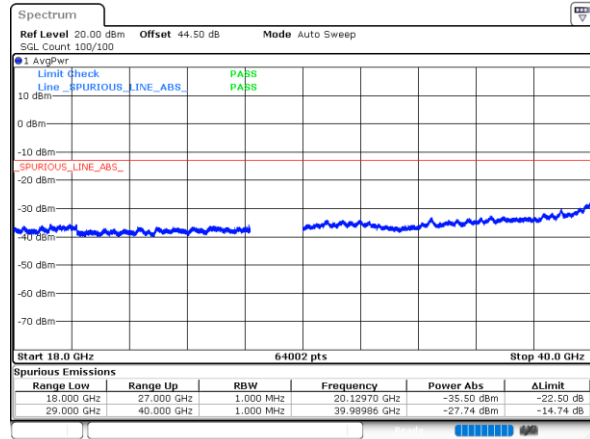
CP-OFDM Module 1

NR Band n261QPSK (18-40GHz)

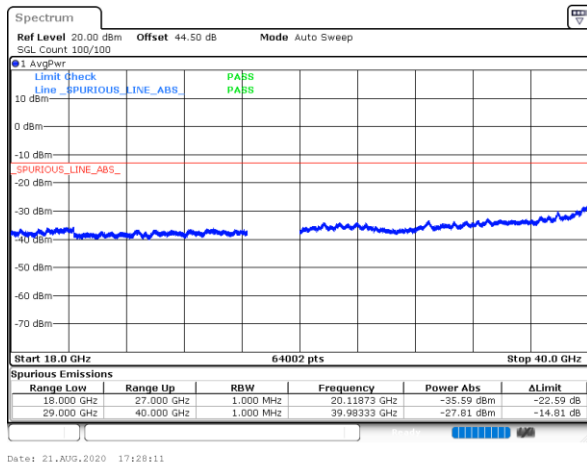
Lowest Channel / 50MHz



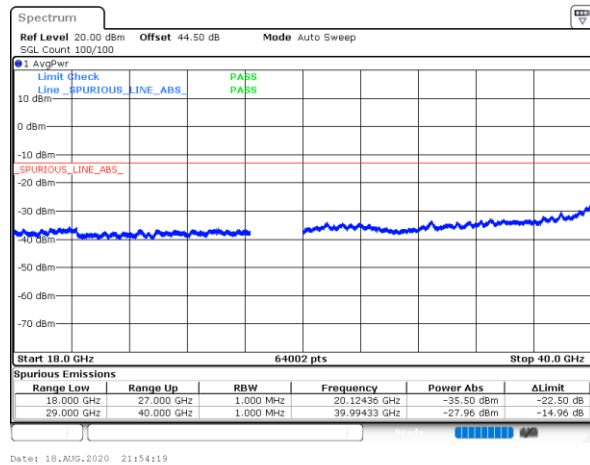
Lowest Channel / 100MHz



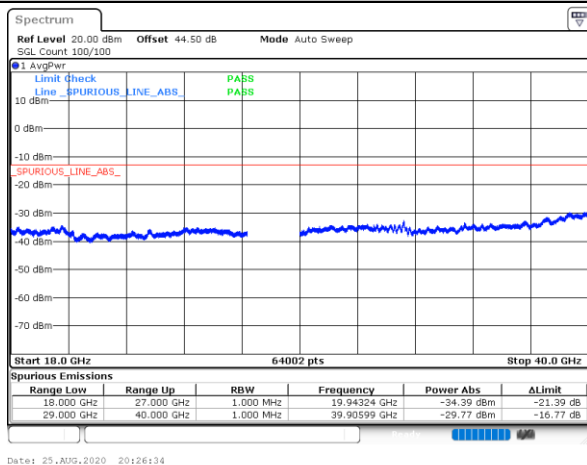
Middle Channel / 50MHz



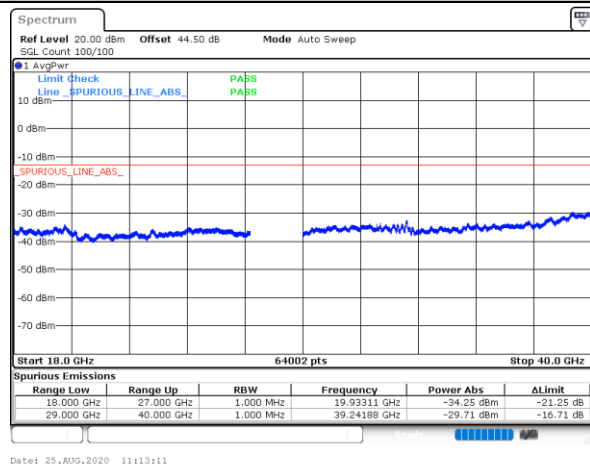
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

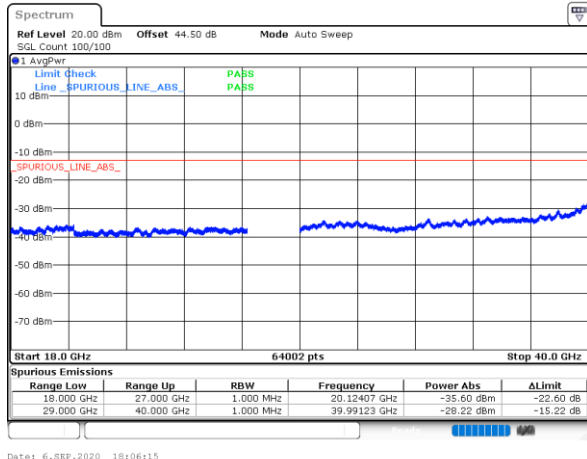




CP-OFDM Module 1

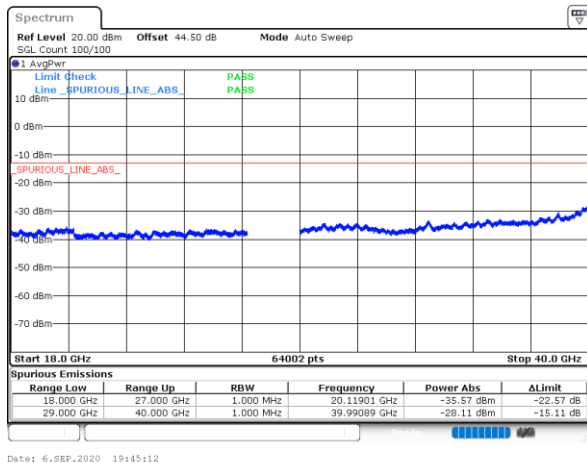
NR Band n261QPSK (18-40GHz)

Lowest Channel / 400MHz



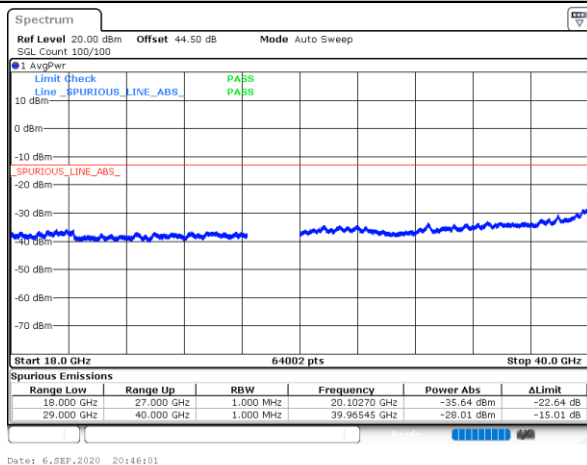
intentionally blank

Middle Channel / 400MHz



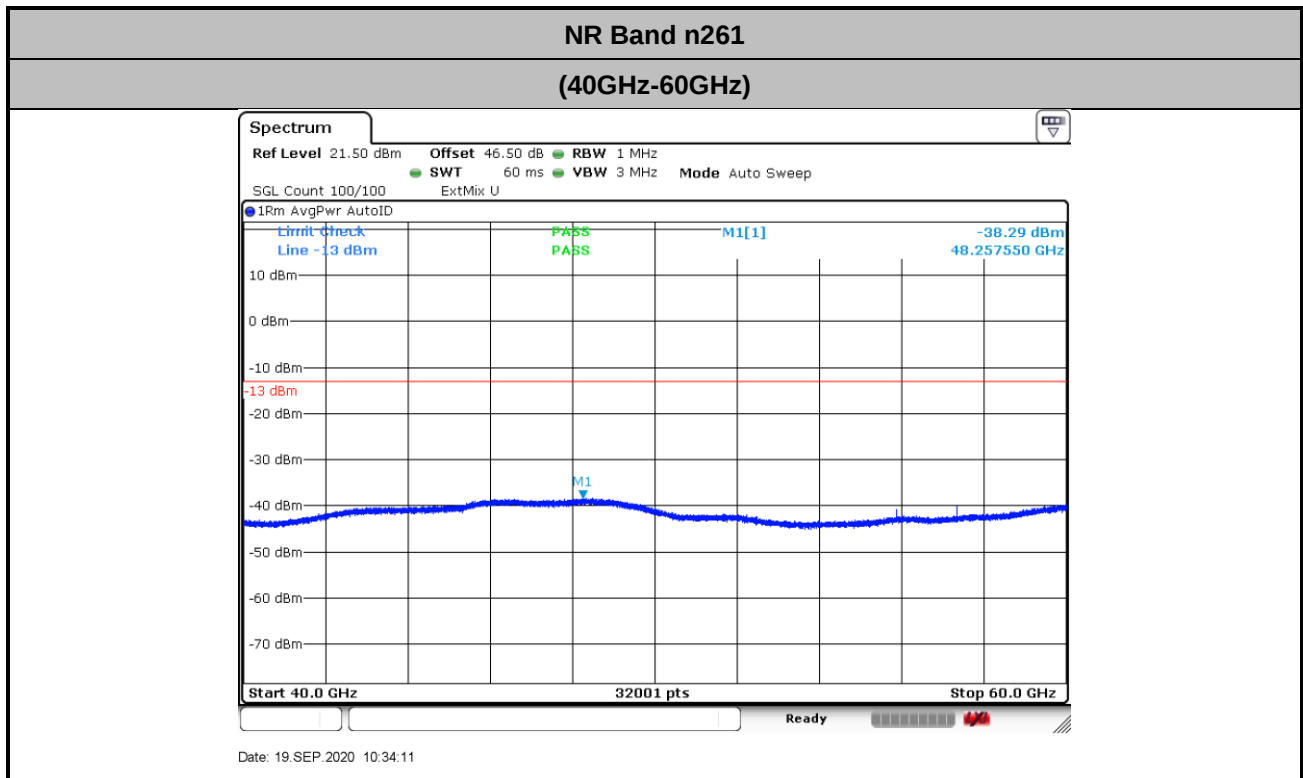
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Highest Channel / 400MHz

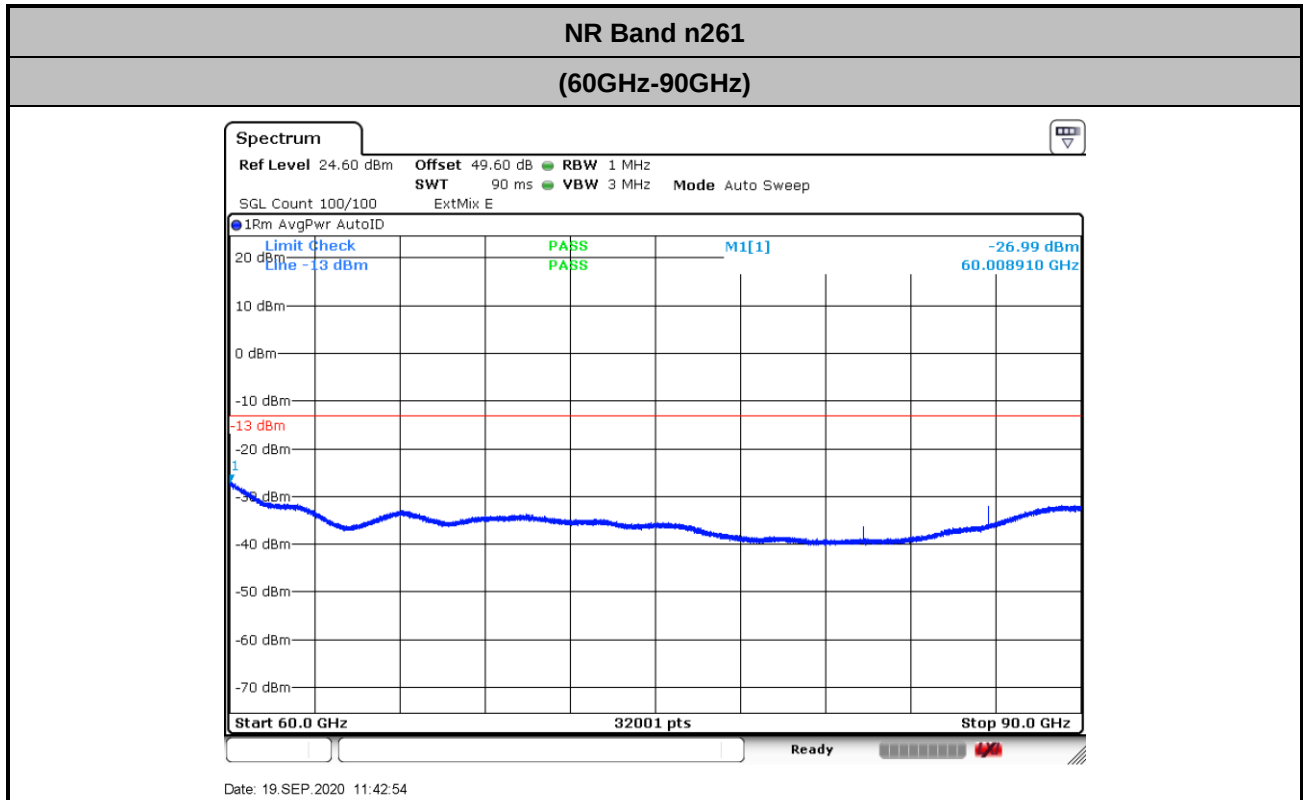


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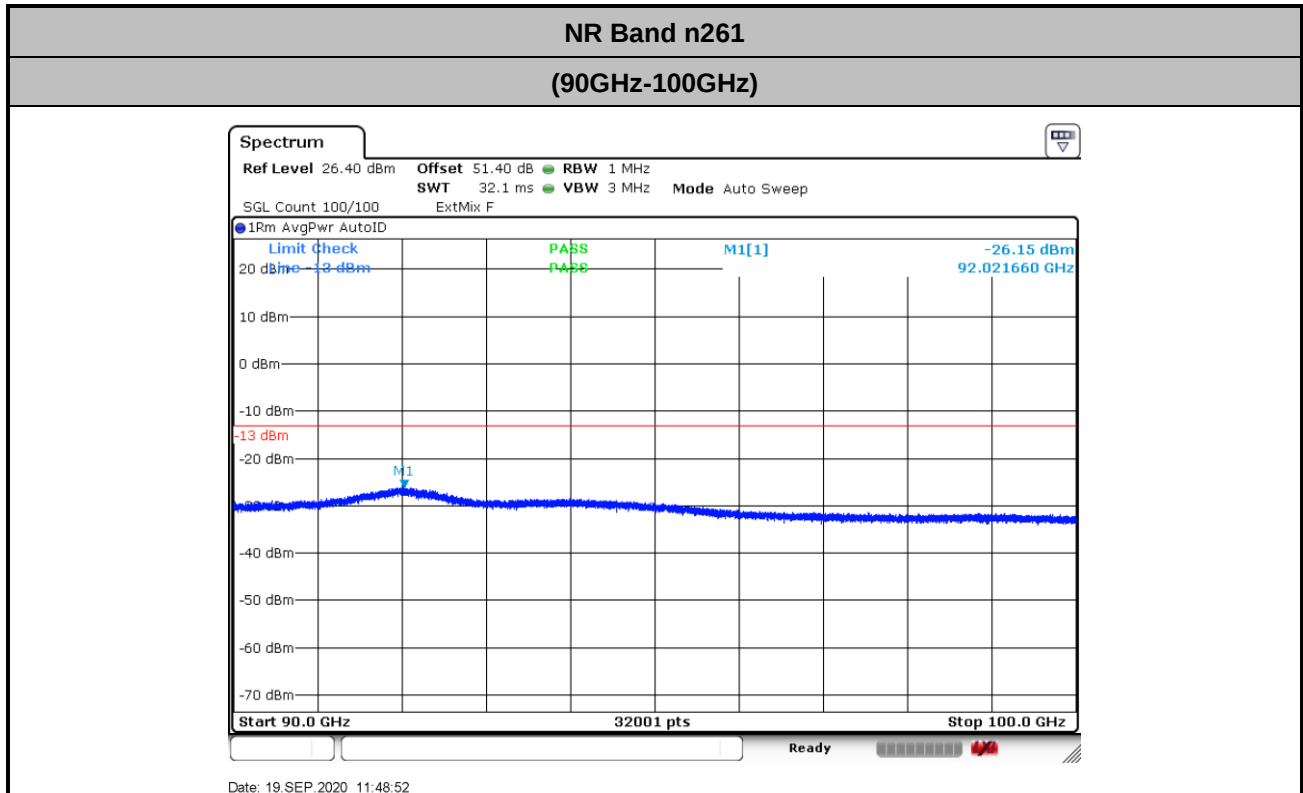
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}\end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}\end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)} \end{aligned}$$



NR Band n261 Module 2 AG0

Occupied Bandwidth

Mode	DFT-s-OFDM Module 2 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				400MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.16	45.12	-	-	90.52	90.68	-	-	387.68	387.04	-	-
Middle CH	45.32	45.32	45.26	45.30	90.68	90.12	90.20	90.68	387.36	386.40	386.24	387.84
Highest CH	45.14	45.14	-	-	90.56	90.56	-	-	387.20	386.72	-	-

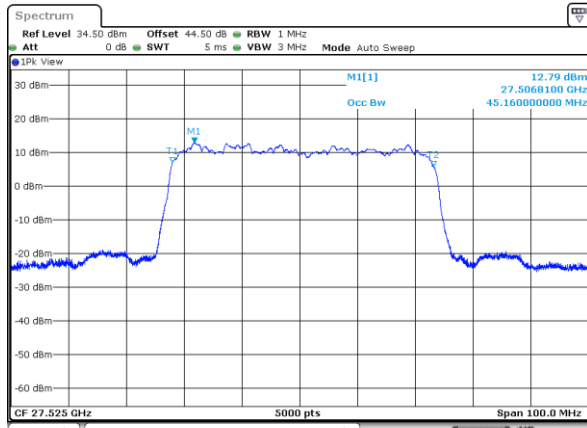
Mode	CP-OFDM Module 2 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.28	-	-	93.04	-	-	388.48	-	-
Middle CH	45.26	45.38	45.12	92.48	92.84	92.88	388.16	389.44	390.72
Highest CH	45.20	-	-	92.76	-	-	387.84	-	-



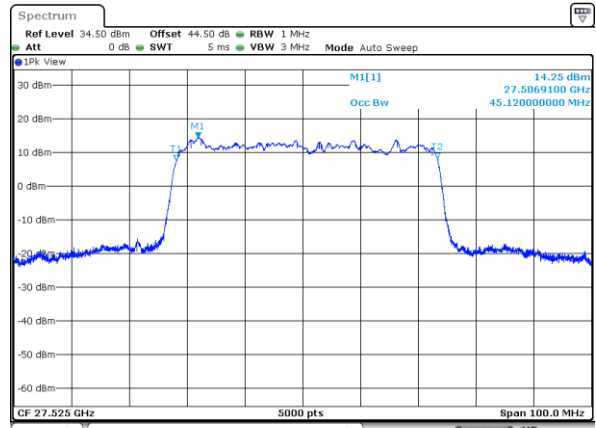
DFT-s-OFDM Module 2

NR Band n261

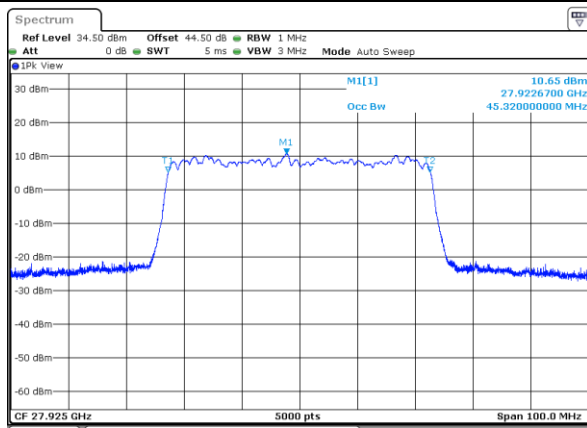
Lowest Channel / 50MHz / BPSK



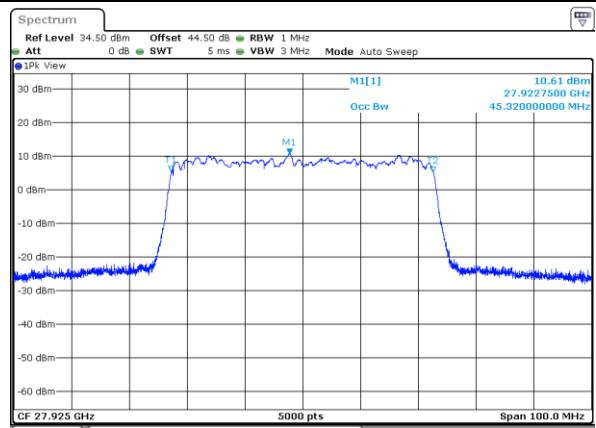
Lowest Channel / 50MHz / QPSK



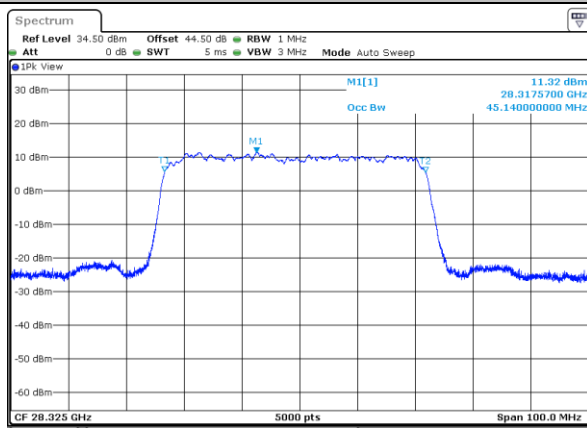
Middle Channel / 50MHz / BPSK



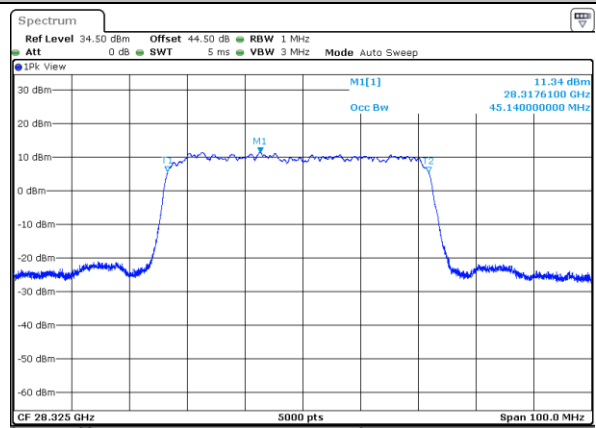
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK

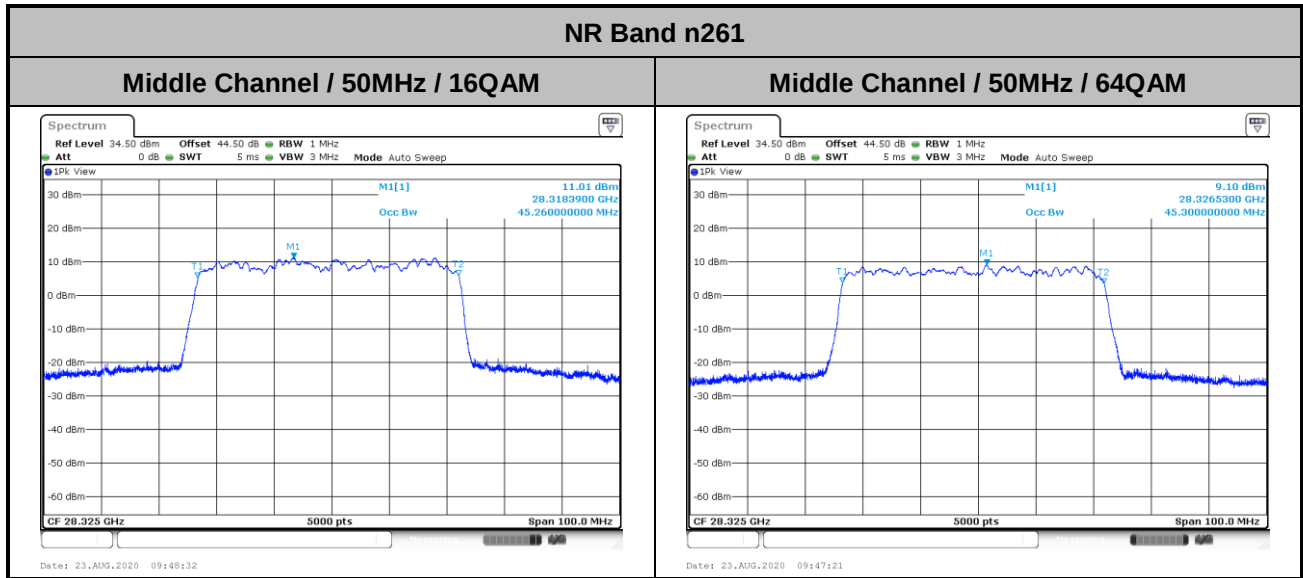


Highest Channel / 50MHz / QPSK





DFT-s-OFDM Module 2

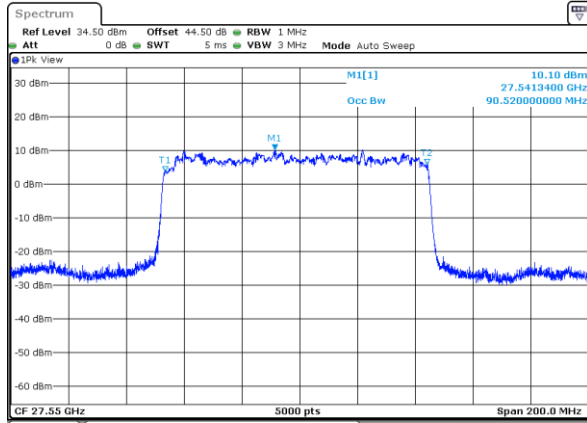




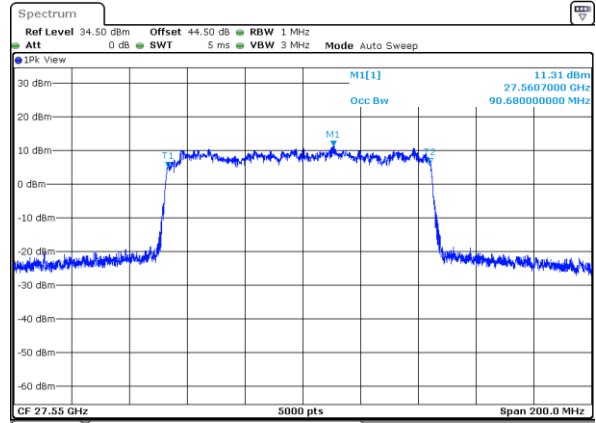
DFT-s-OFDM Module 2

NR Band n261

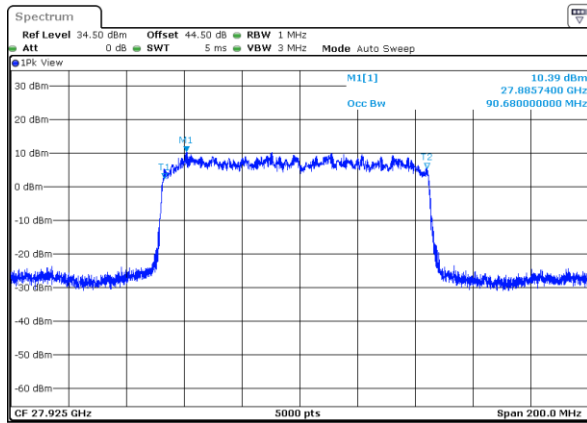
Lowest Channel / 100MHz / BPSK



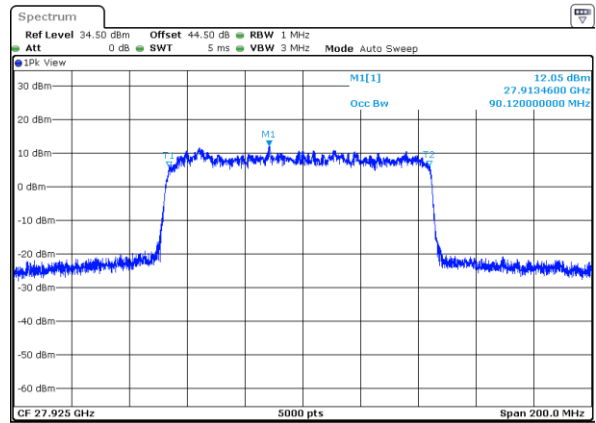
Lowest Channel / 100MHz / QPSK



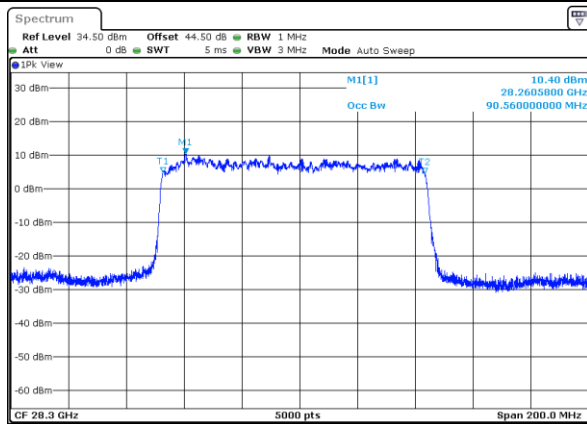
Middle Channel / 100MHz / BPSK



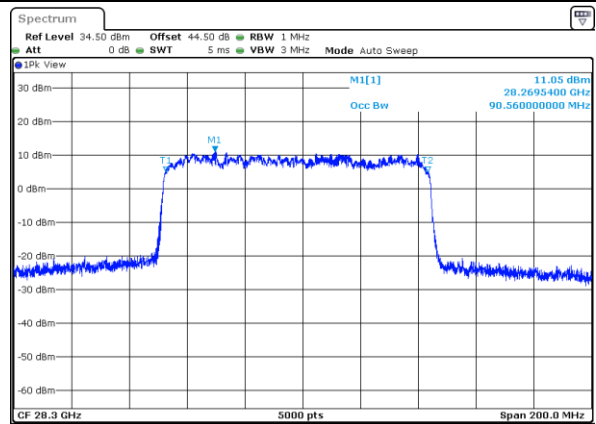
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK

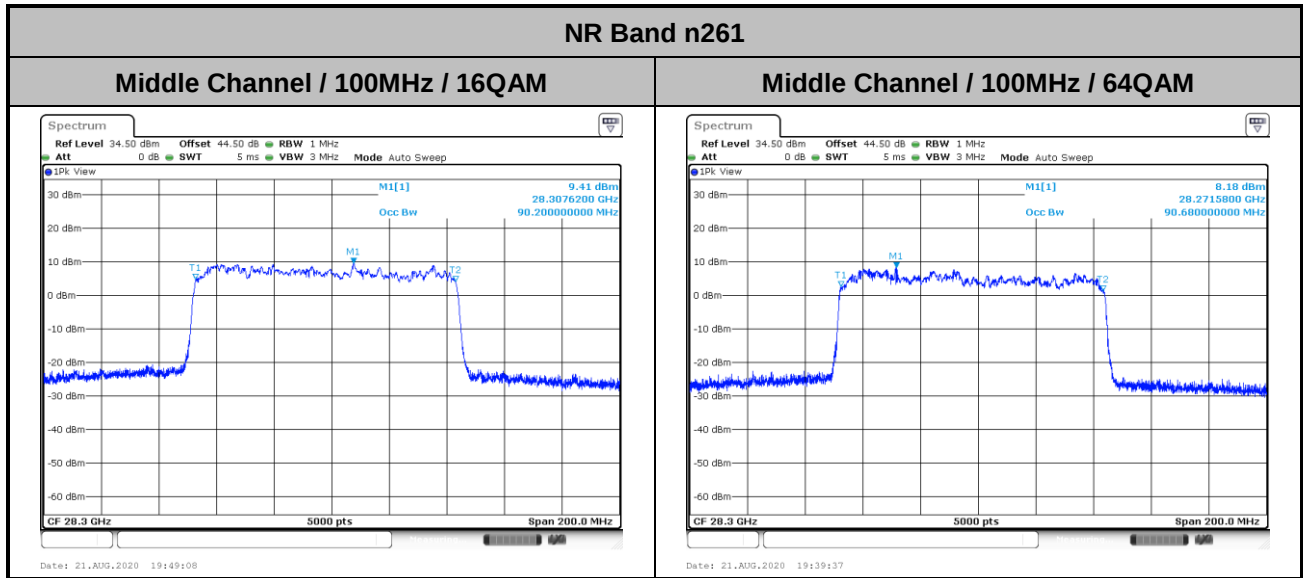


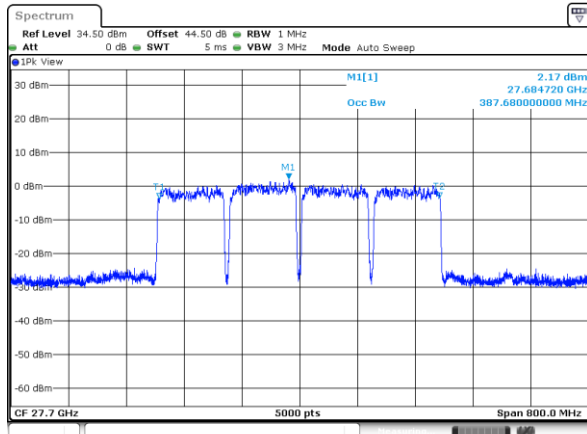
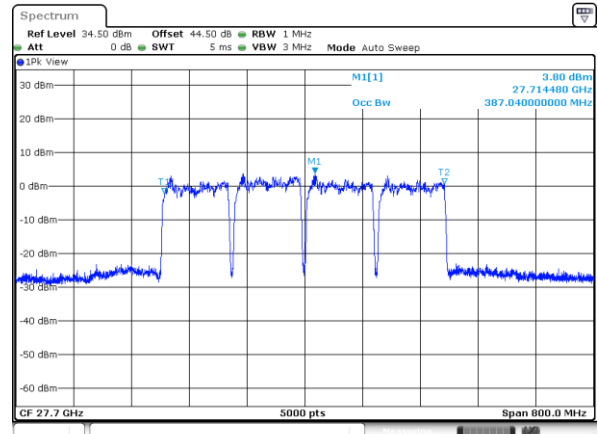
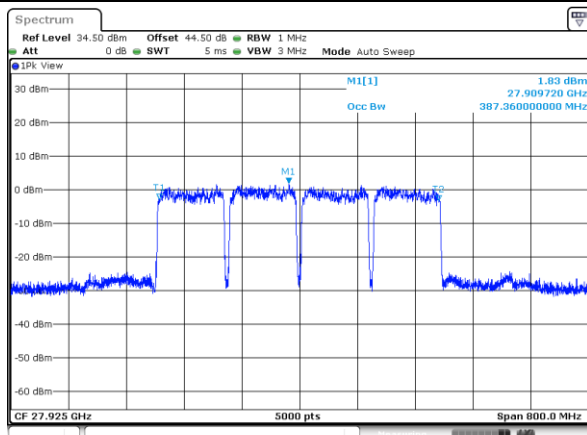
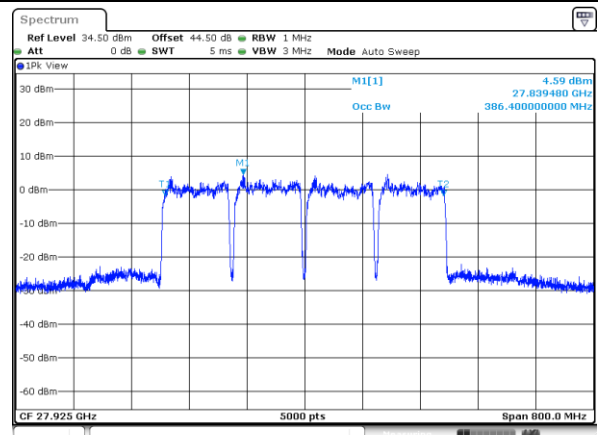
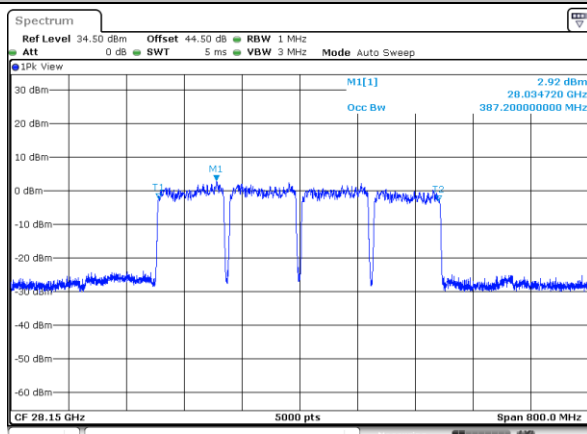
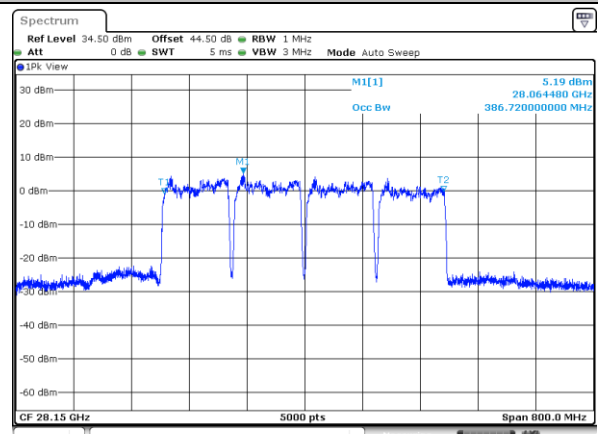
Highest Channel / 100MHz / QPSK





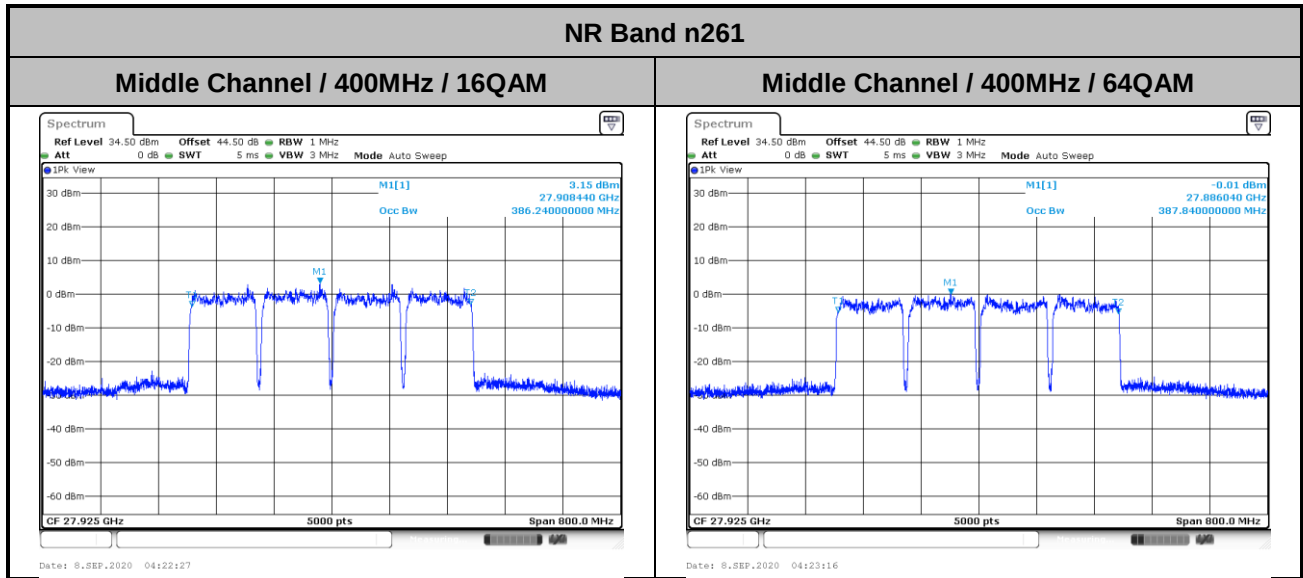
DFT-s-OFDM Module 2



DFT-s-OFDM Module 2
NR Band n261
Lowest Channel / 400MHz / BPSK

Lowest Channel / 400MHz / QPSK

Middle Channel / 400MHz / BPSK

Middle Channel / 400MHz / QPSK

Highest Channel / 400MHz / BPSK

Highest Channel / 400MHz / QPSK




DFT-s-OFDM Module 2

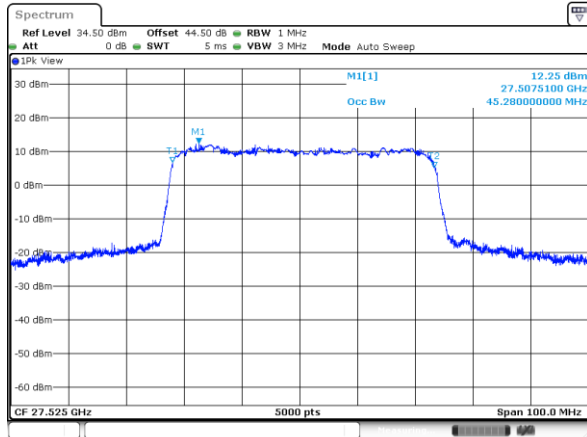




CP-OFDM Module 2

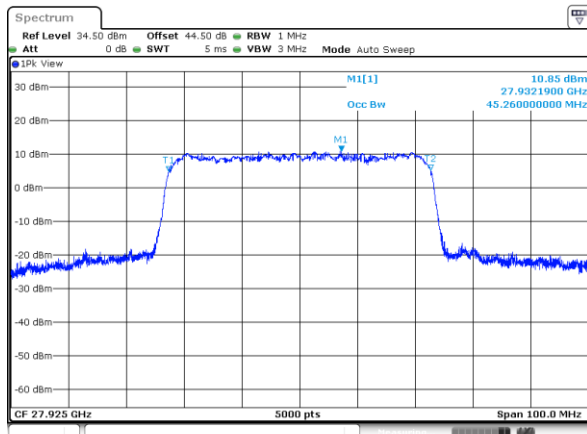
NR Band n261

Lowest Channel / 50MHz / QPSK



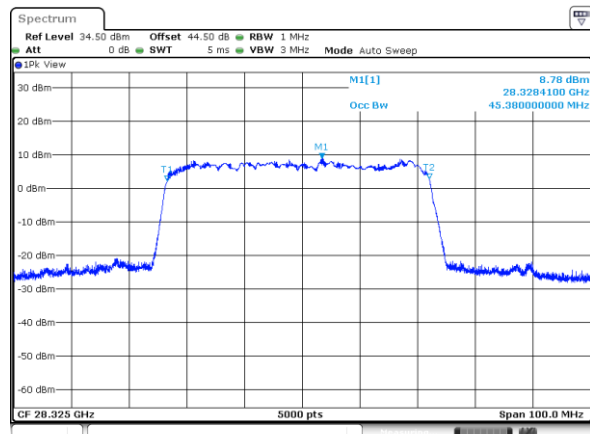
Date: 22.AUG.2020 04:46:20

Middle Channel / 50MHz / QPSK



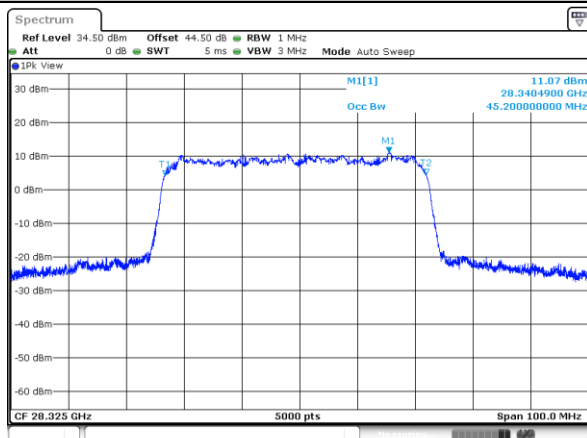
Date: 22.AUG.2020 10:38:17

Middle Channel / 50MHz / 16QAM



Date: 21.AUG.2020 21:13:27

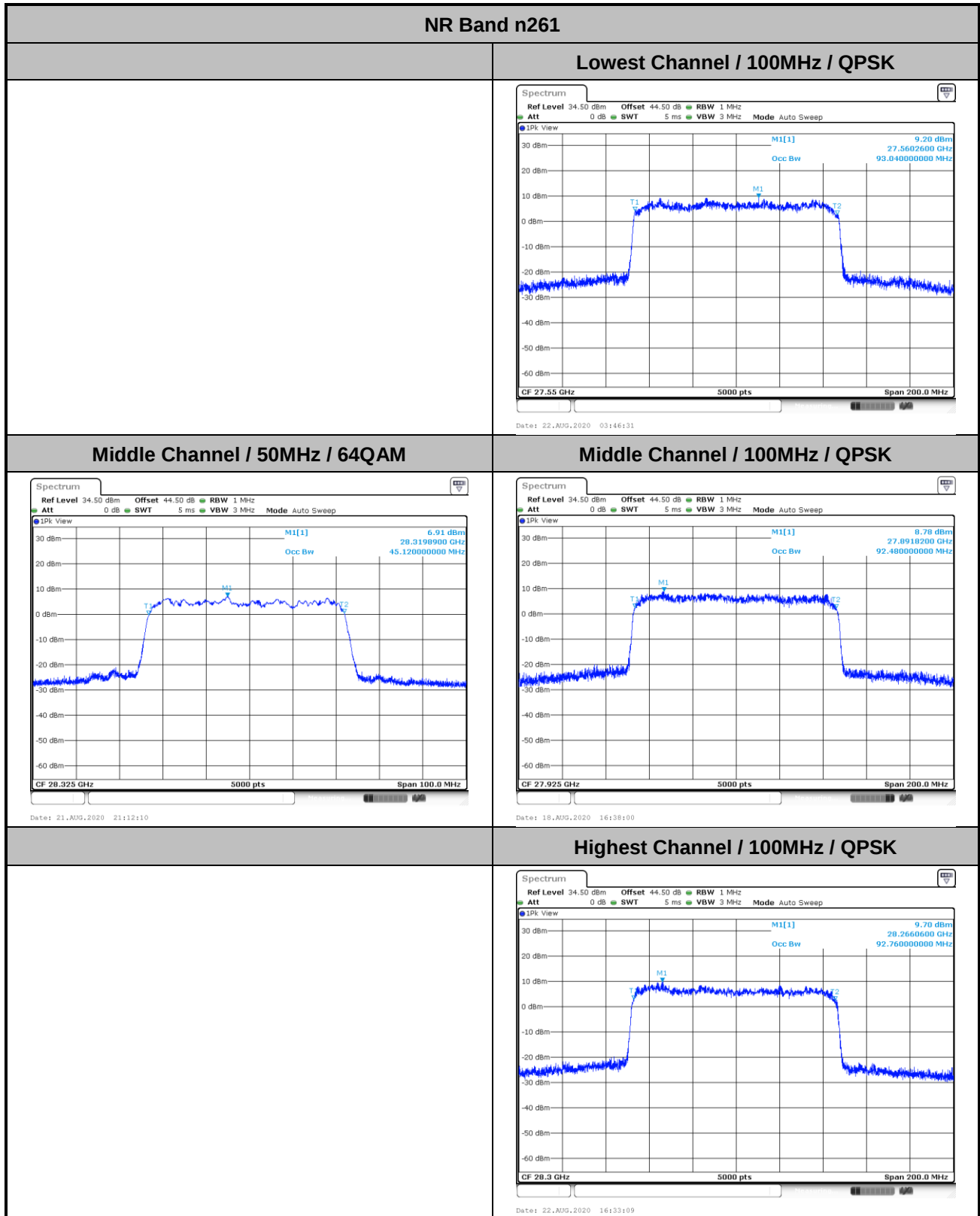
Highest Channel / 50MHz / QPSK



Date: 22.AUG.2020 15:24:40

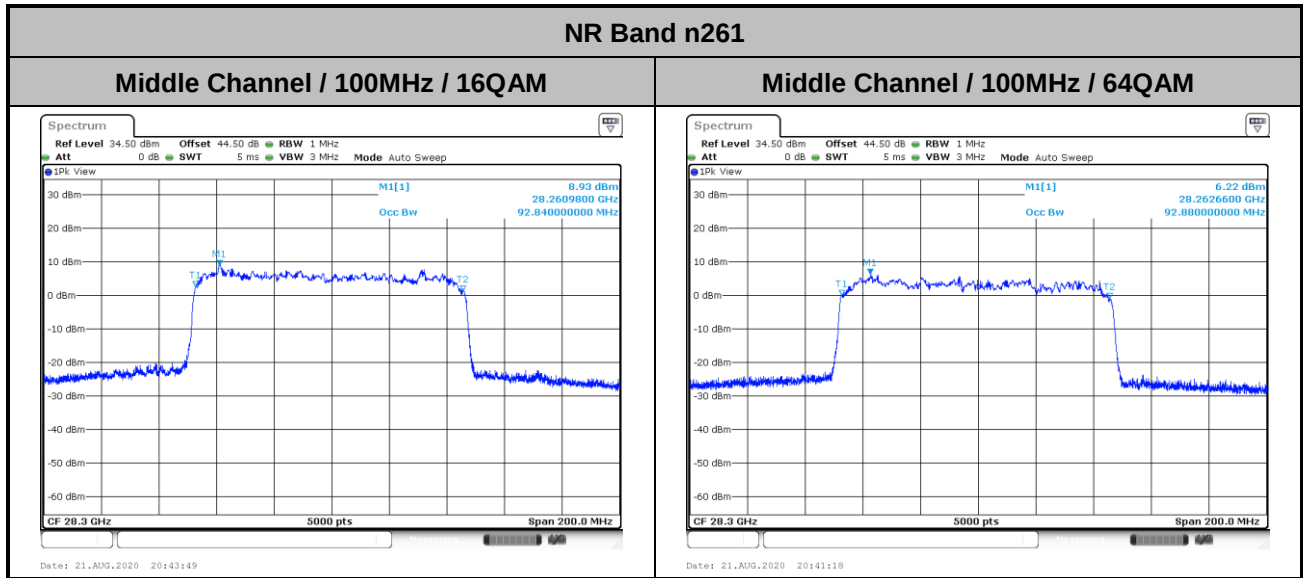


CP-OFDM Module 2





CP-OFDM Module 2

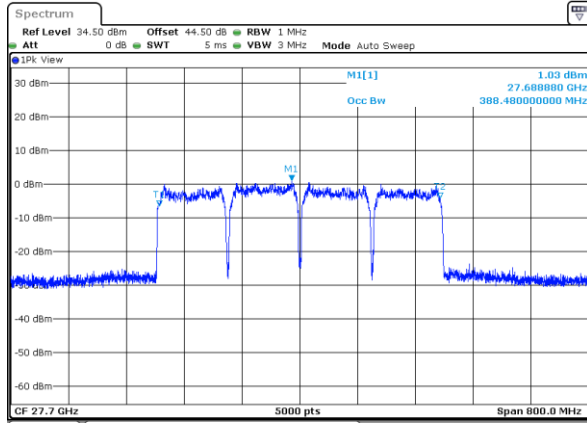




CP-OFDM Module 2

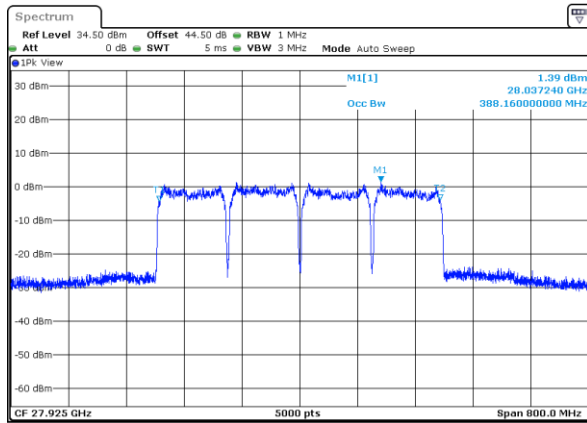
NR Band n261

Lowest Channel / 400MHz / QPSK



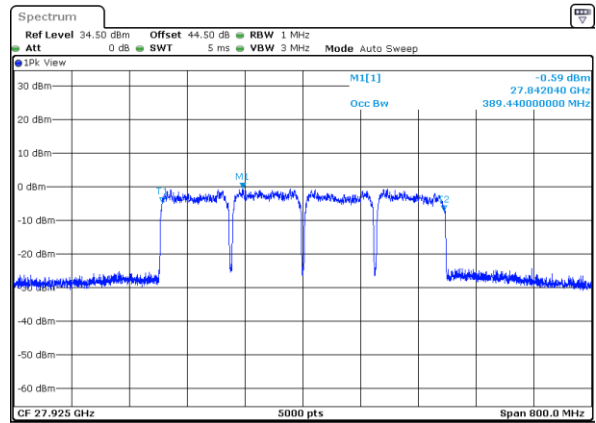
Date: 8,SEP,2020 03:30:28

Middle Channel / 400MHz / QPSK



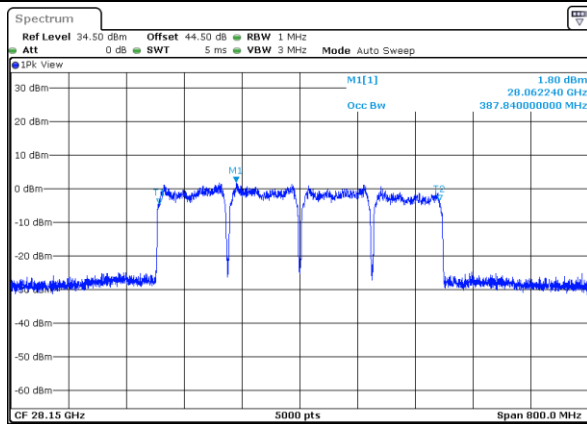
Date: 8,SEP,2020 04:25:33

Middle Channel / 400MHz / 16QAM



Date: 8,SEP,2020 04:26:45

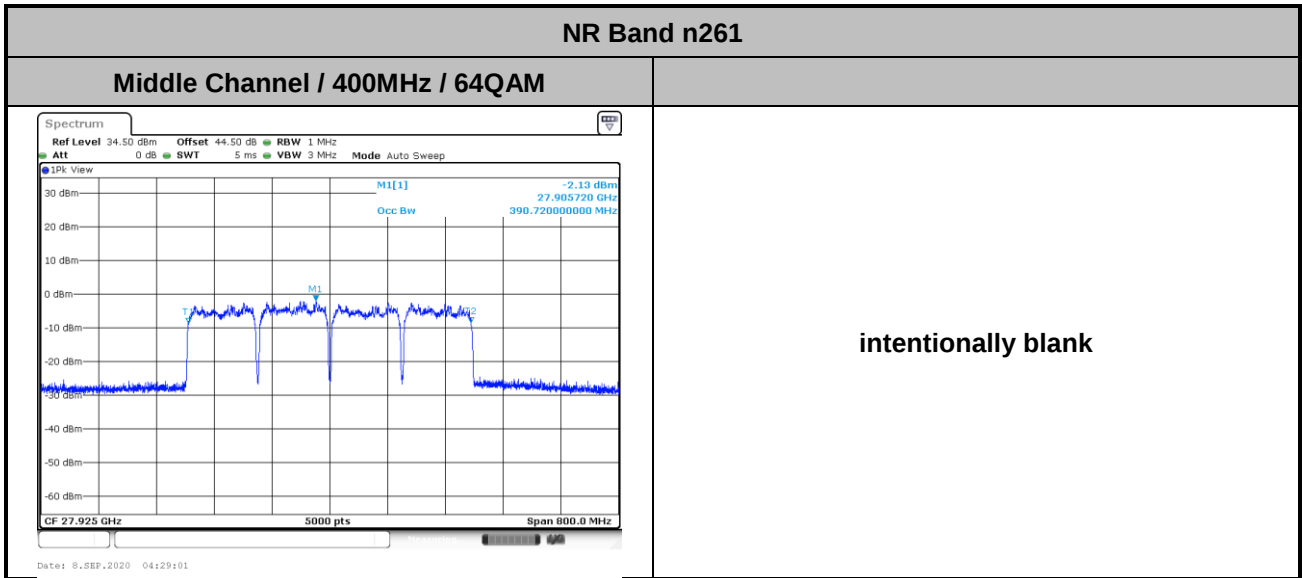
Highest Channel / 400MHz / QPSK



Date: 8,SEP,2020 05:15:43



CP-OFDM Module 2



**Radiated Out of Band Emissions**

Mode			DFT-s-OFDM Module 2 NR Band n261 : BE (dBm) 1 RB											
BW			50MHz				100MHz				400MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-25.07	-23.51	-	-	-21.18	-20.11	-	-	-32.68	-32.14	-	-
	>10%OB	≤-13	-30.49	-33.11	-	-	-31.38	-30.51	-	-	-33.62	-31.69	-	-
High CH	0~10%OB	≤-5	-25.72	-25.31	-	-	-24.89	-23.53	-	-	-32.14	-31.74	-	-
	>10%OB	≤-13	-32.31	-32.46	-	-	-33.95	-33.88	-	-	-33.74	-31.96	-	-
Result			Compliance											

Mode			CP-OFDM Module 2 NR Band n261 : BE (dBm) 1 RB								
BW			50MHz			100MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-25.59	-	-	-19.86	-	-	-32.06	-	-
	>10%OB	≤-13	-27.61	-	-	-31.62	-	-	-29.87	-	-
High CH	0~10%OB	≤-5	-26.02	-	-	-26.66	-	-	-32.26	-	-
	>10%OB	≤-13	-33.6	-	-	-33.96	-	-	-30.38	-	-
Result			Compliance								

Mode			DFT-s-OFDM Module 2 NR Band n261 : BE (dBm) Full RB											
BW			50MHz				100MHz				400MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-28.53	-24.83	-	-	-30.27	-21.18	-	-	-32.98	-31.93	-	-
	>10%OB	≤-13	-30.95	-25.49	-	-	-32.02	-31.38	-	-	-33.08	-32.21	-	-
High CH	0~10%OB	≤-5	-30.94	-30.76	-	-	-32.89	-29.96	-	-	-33.58	-33.15	-	-
	>10%OB	≤-13	-34.38	-34.17	-	-	-34.43	-34.35	-	-	-33.59	-33.24	-	-
Result			Compliance											

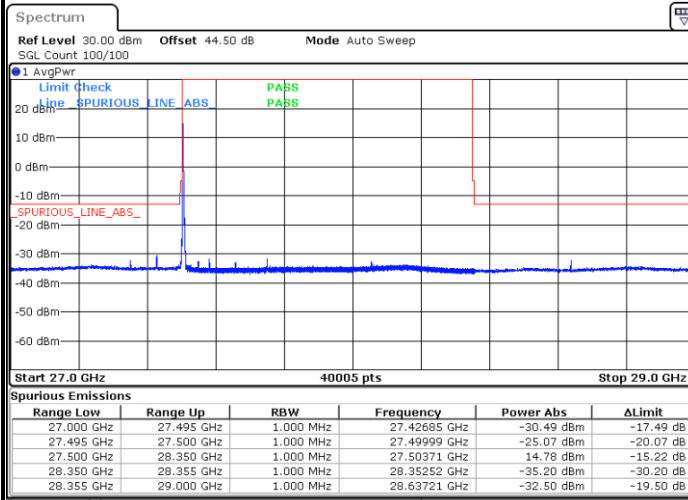
Mode			CP-OFDM Module 2 NR Band n261 : BE (dBm) Full RB								
BW			50MHz			100MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-25.59	-	-	-29.12	-	-	-33.58	-	-
	>10%OB	≤-13	-27.61	-	-	-29.87	-	-	-33.58	-	-
High CH	0~10%OB	≤-5	-28.79	-	-	-30.95	-	-	-33.93	-	-
	>10%OB	≤-13	-34.22	-	-	-34.48	-	-	-34.28	-	-
Result			Compliance								



DFT-s-OFDM Module 2

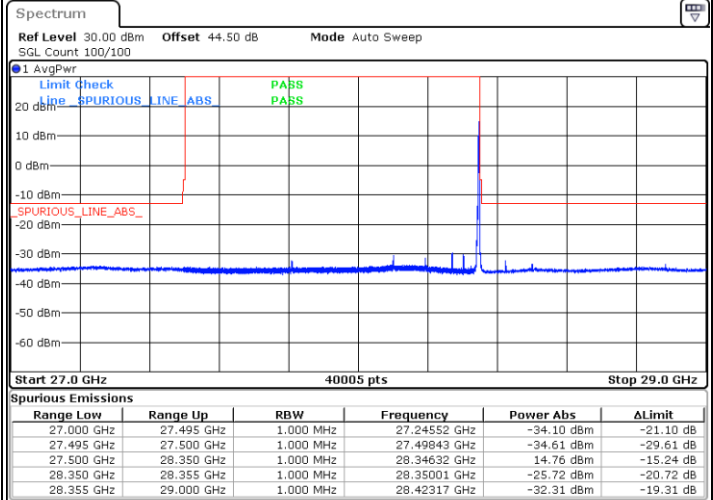
NR Band n261 / 50MHz / BPSK

Lowest Band Edge / 1 RB



Date: 22.AUG.2020 04:28:45

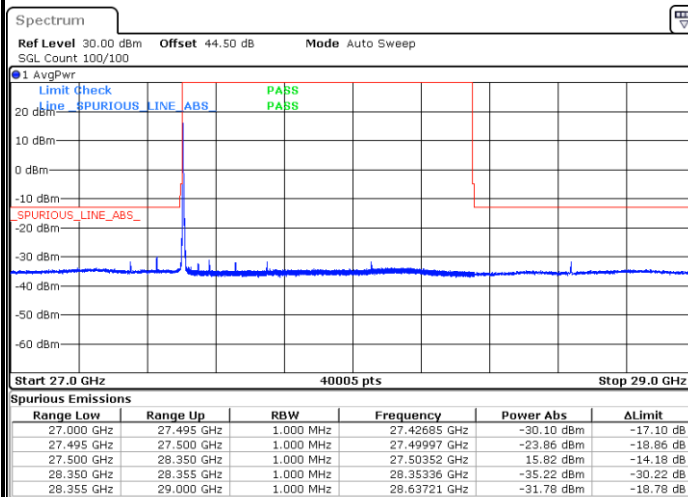
Highest Band Edge / 1 RB



Date: 22.AUG.2020 14:37:54

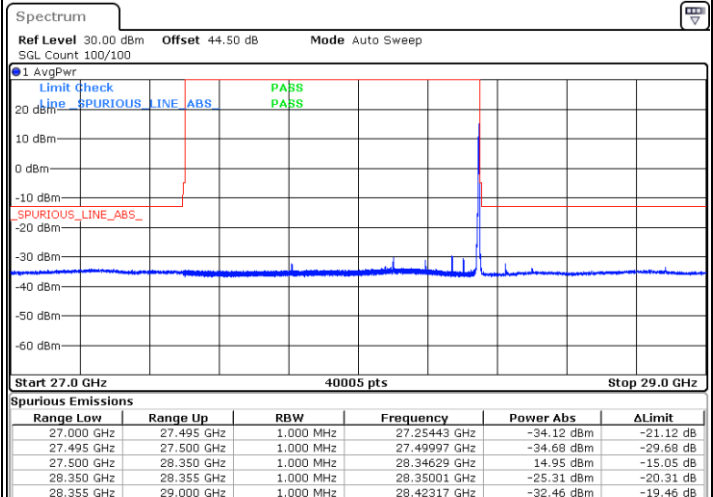
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Date: 22.AUG.2020 04:24:02

Highest Band Edge / 1 RB



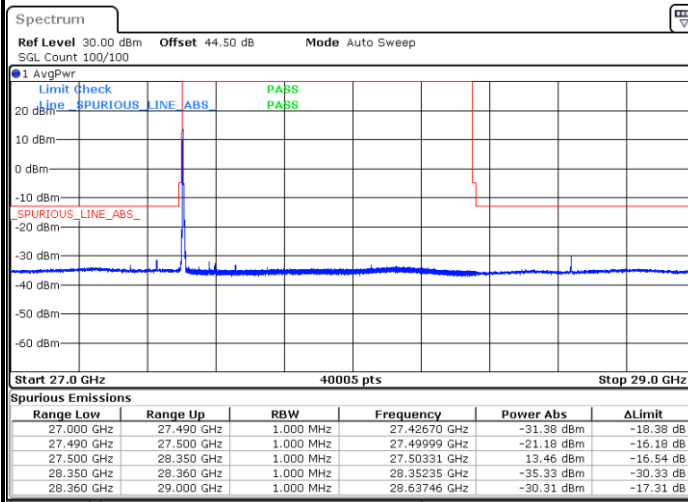
Date: 22.AUG.2020 14:39:06



DFT-s-OFDM Module 2

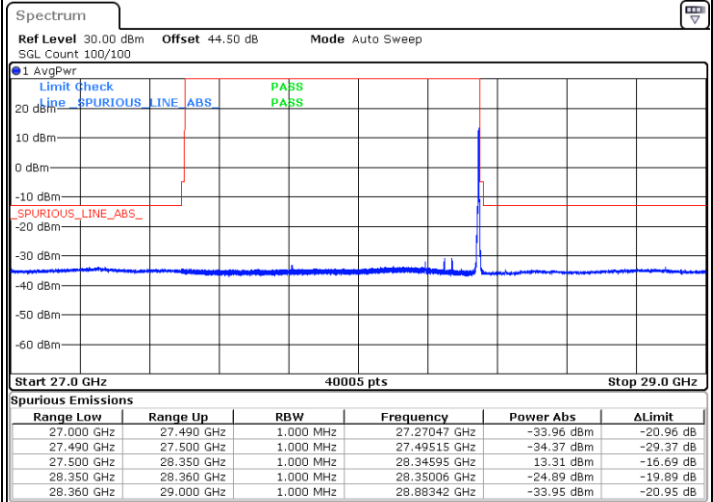
NR Band n261 / 100MHz / BPSK

Lowest Band Edge / 1 RB



Date: 22.AUG.2020 03:32:10

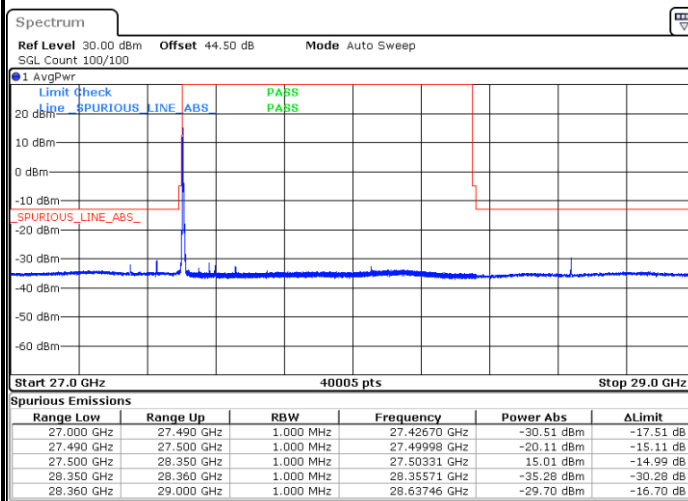
Highest Band Edge / 1 RB



Date: 22.AUG.2020 16:21:35

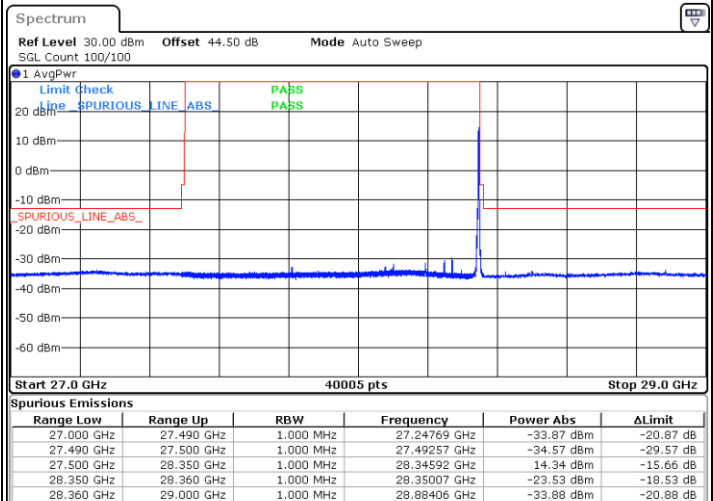
NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Date: 22.AUG.2020 03:26:19

Highest Band Edge / 1 RB



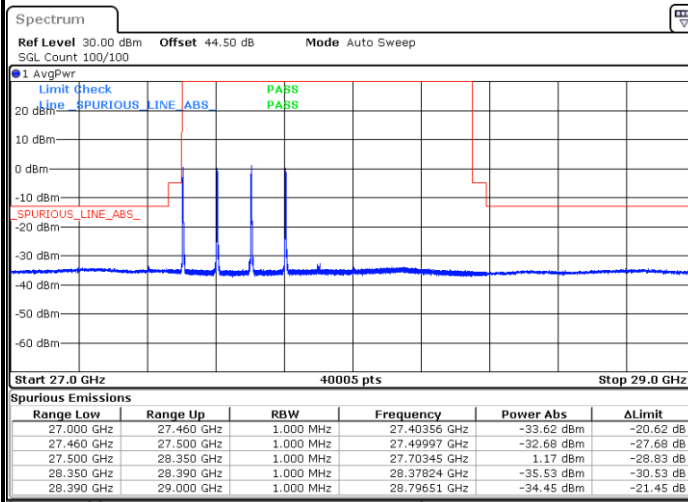
Date: 22.AUG.2020 16:20:43



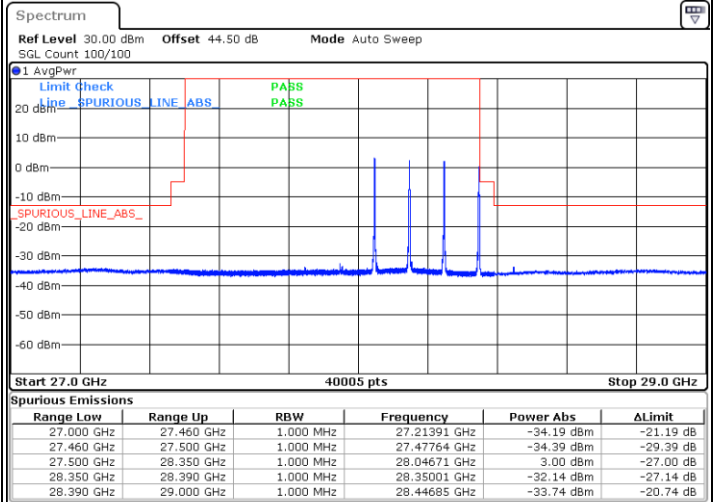
DFT-s-OFDM Module 2

NR Band n261 / 400MHz / BPSK

Lowest Band Edge / 1 RB

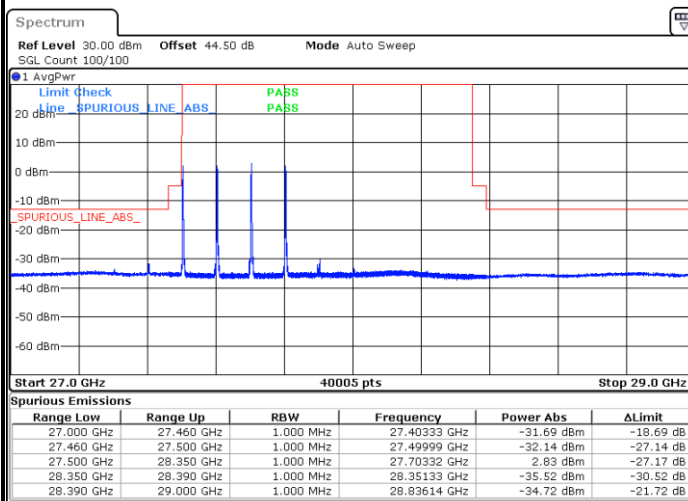


Highest Band Edge / 1 RB

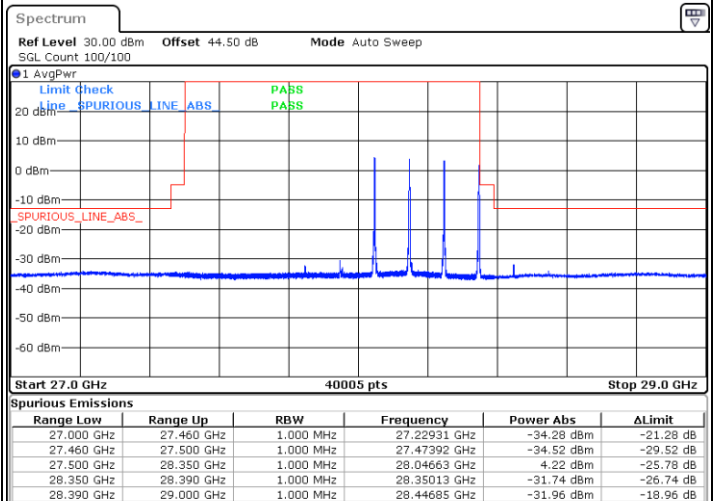


NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

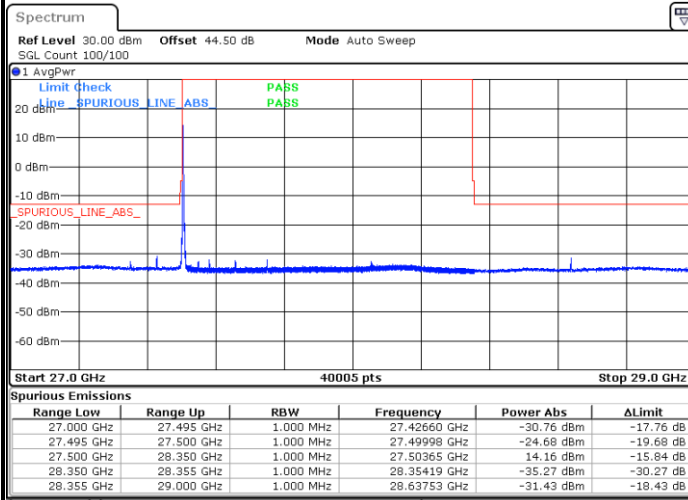




CP-OFDM Module 2

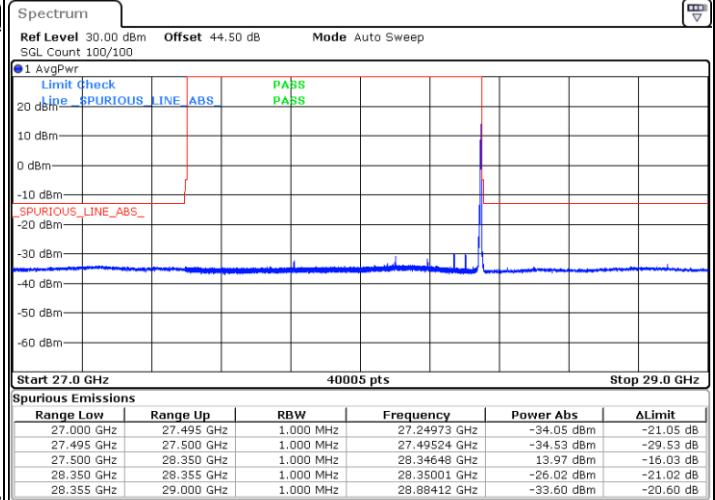
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Date: 22.AUG.2020 04:51:21

Highest Band Edge / 1 RB



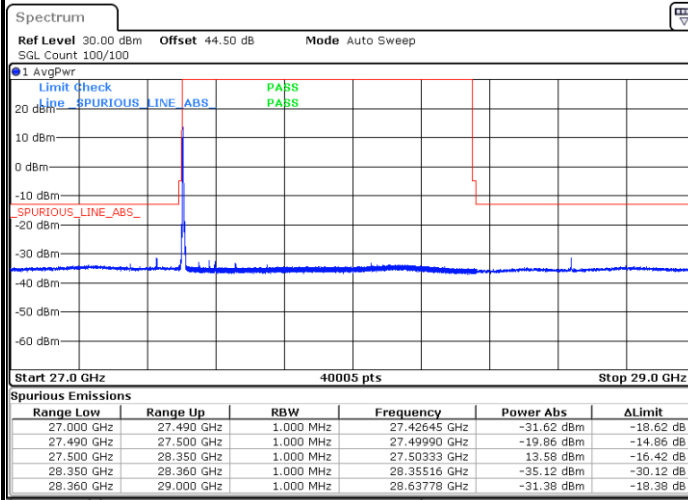
Date: 22.AUG.2020 15:20:35



CP-OFDM Module 2

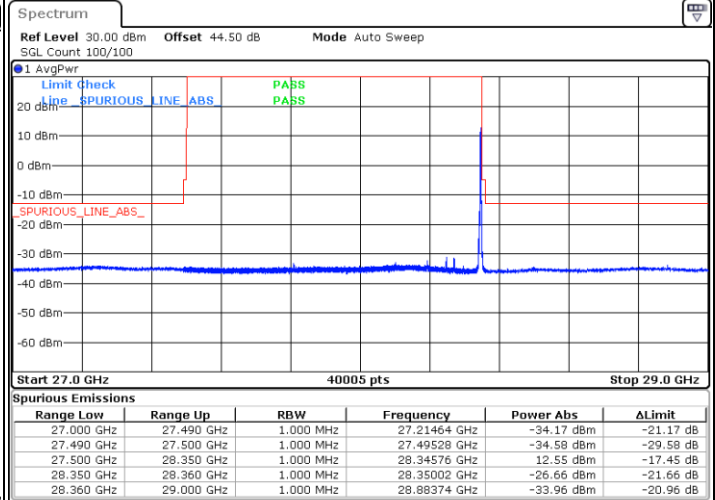
NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Date: 22.AUG.2020 03:51:06

Highest Band Edge / 1 RB



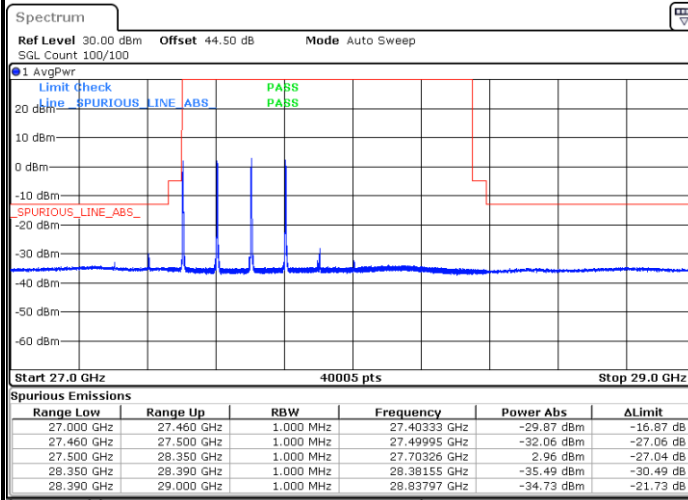
Date: 22.AUG.2020 16:29:45



CP-OFDM Module 2

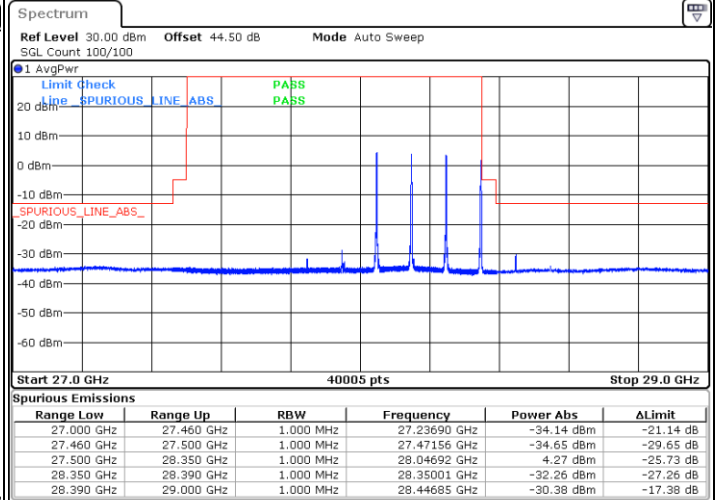
NR Band n261 / 400MHz / QPSK

Lowest Band Edge / 1 RB



Date: 8.SEP.2020 03:37:03

Highest Band Edge / 1 RB



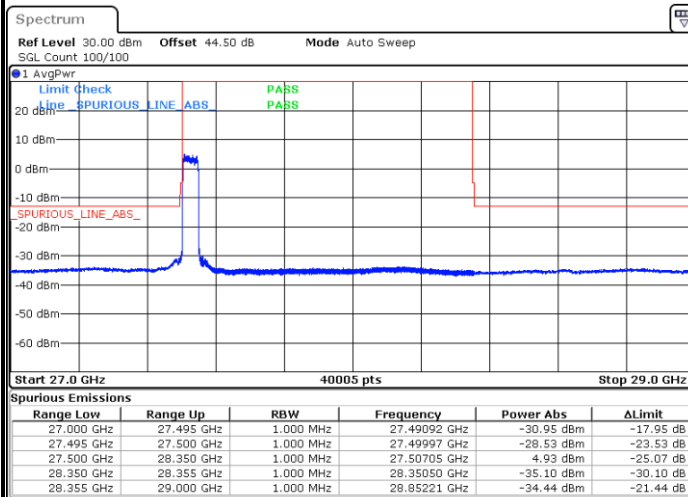
Date: 8.SEP.2020 05:47:01



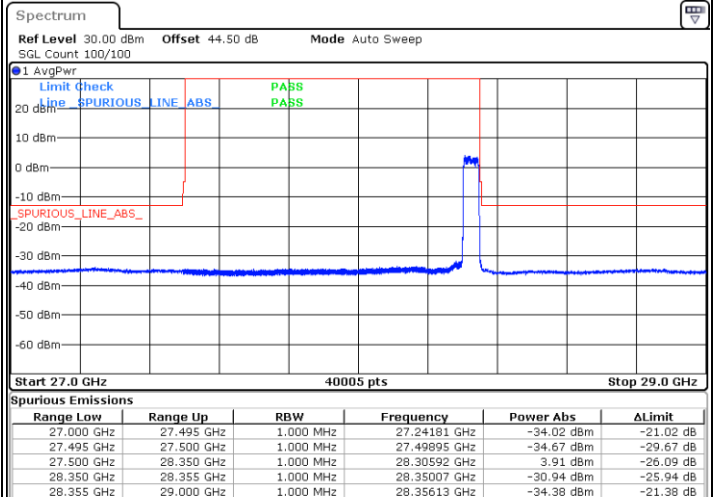
DFT-s-OFDM Module 2

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / Full RB

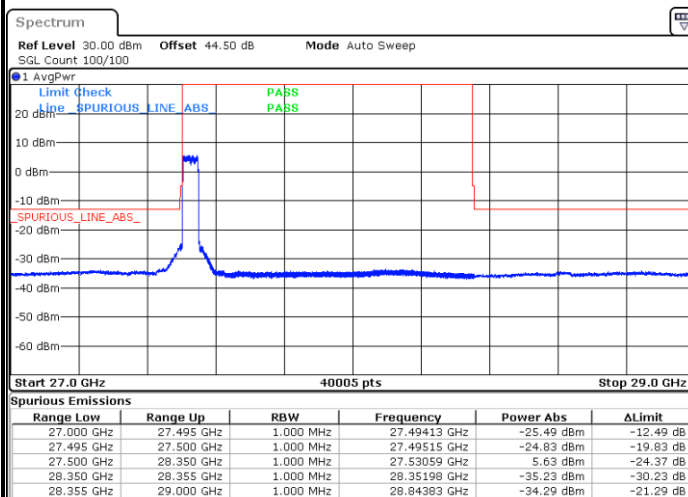


Highest Band Edge / Full RB

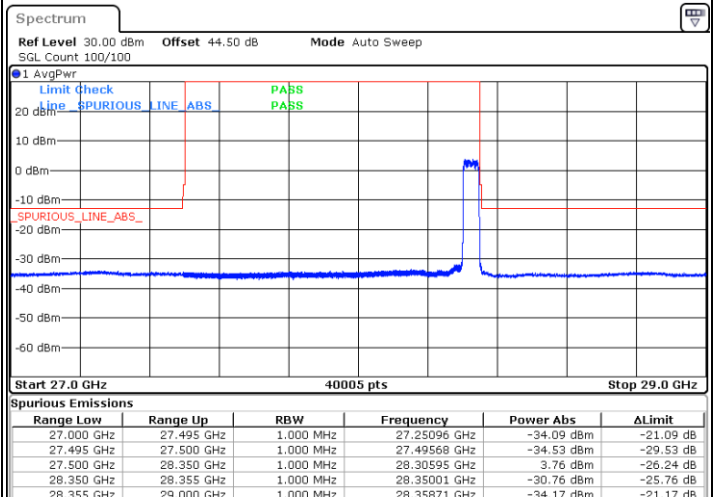


NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

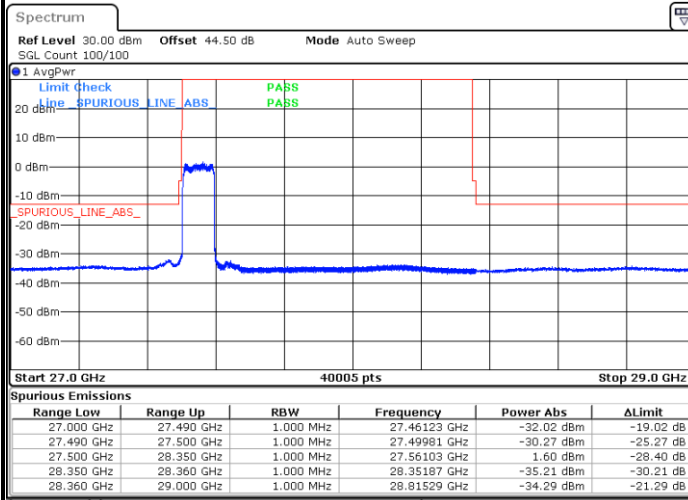




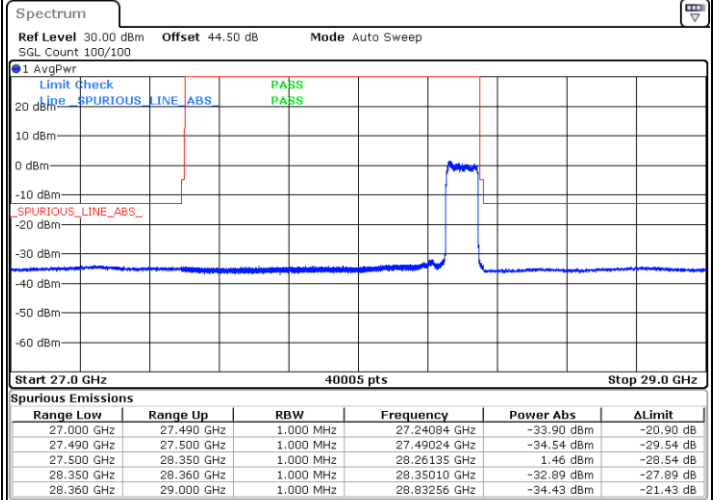
DFT-s-OFDM Module 2

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / Full RB

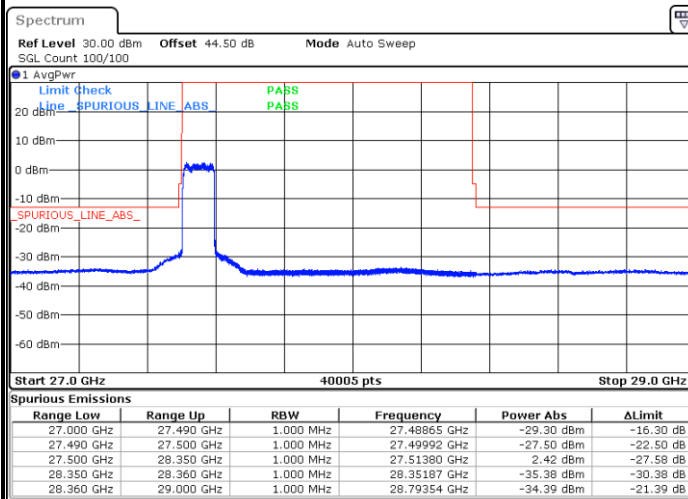


Highest Band Edge / Full RB

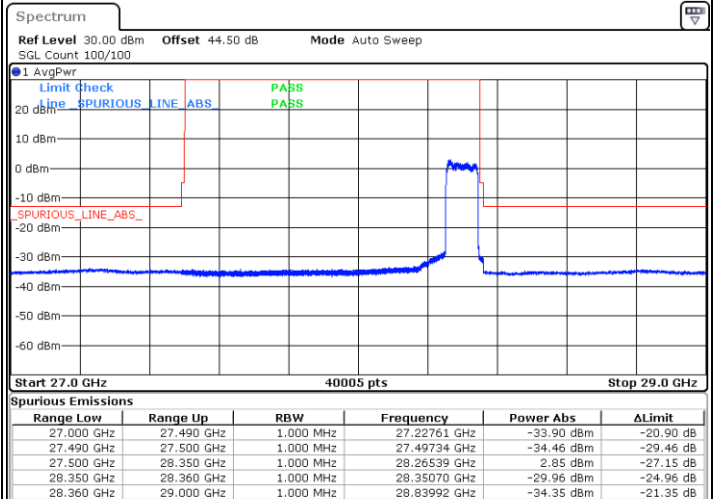


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

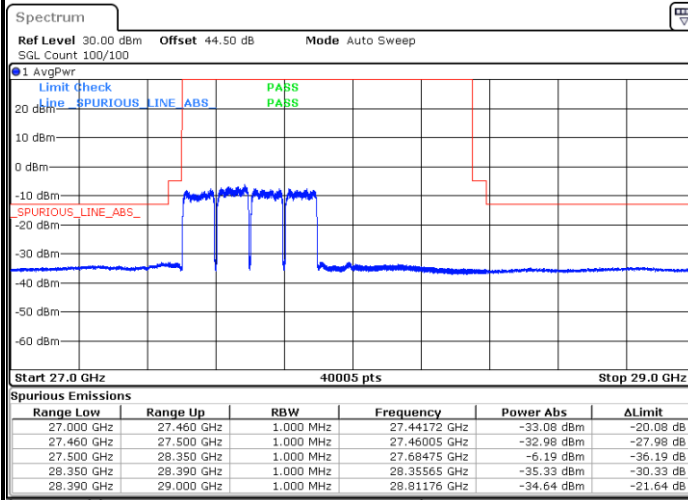




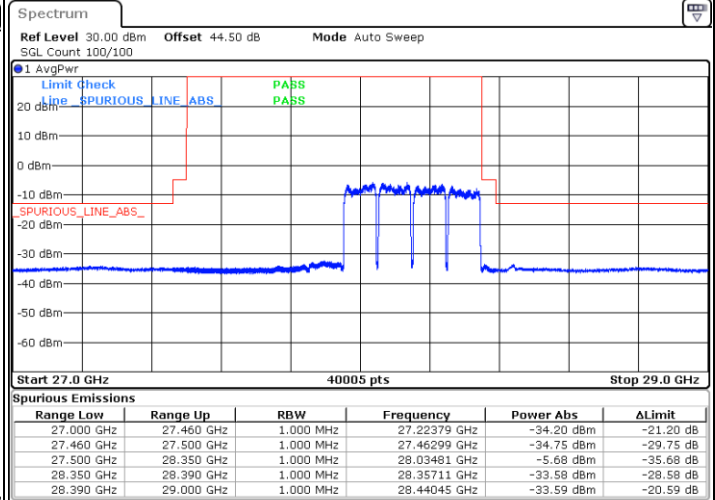
DFT-s-OFDM Module 2

NR Band n261 / 400MHz / BPSK

Lowest Band Edge / Full RB

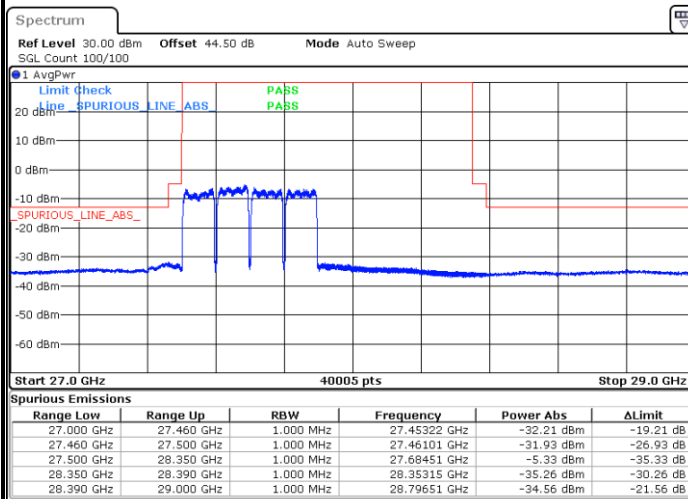


Highest Band Edge / Full RB

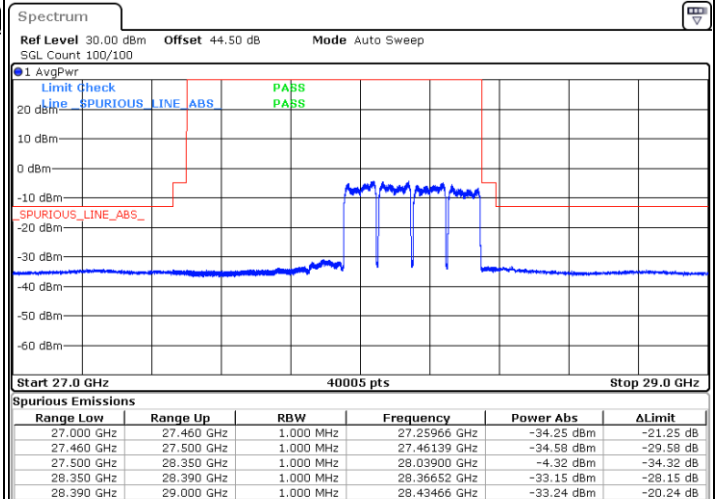


NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



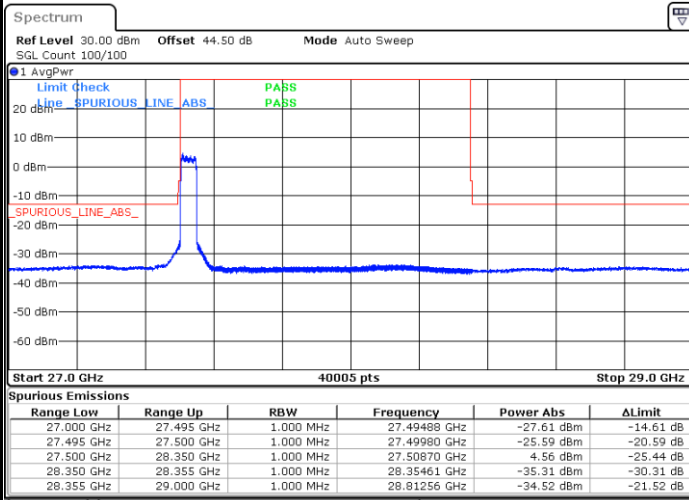


CP-OFDM Module 2

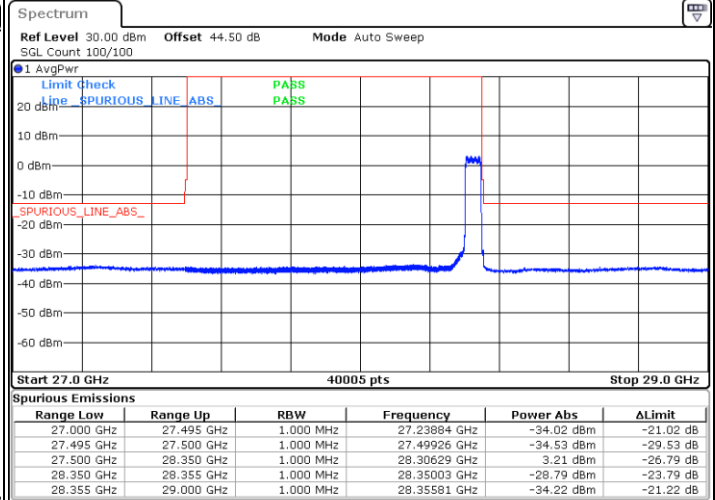
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.AUG.2020 04:46:06



Date: 22.AUG.2020 15:25:43

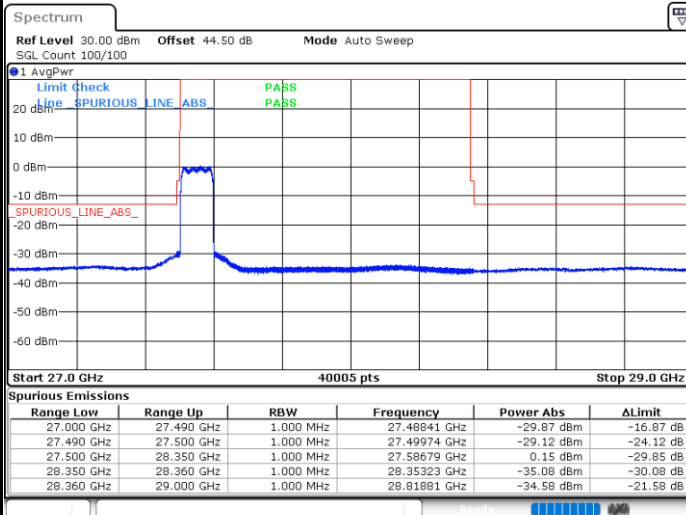


CP-OFDM Module 2

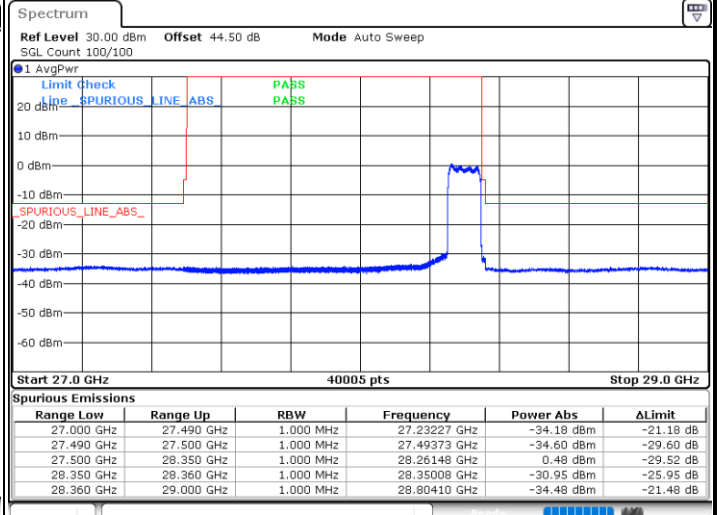
NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.AUG.2020 03:46:19



Date: 22.AUG.2020 16:33:50

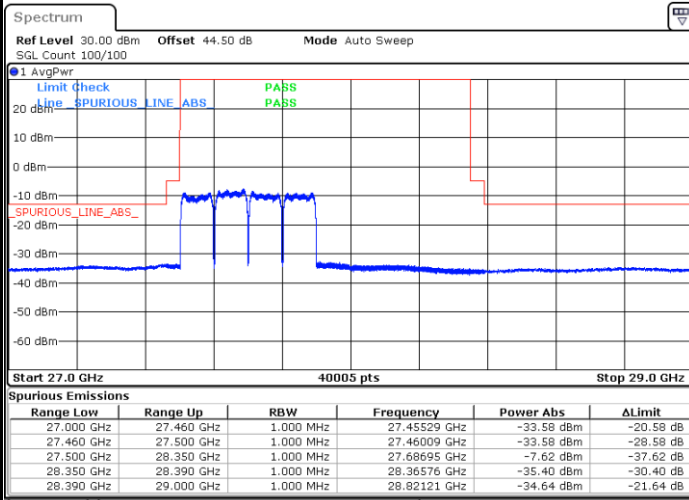


CP-OFDM Module 2

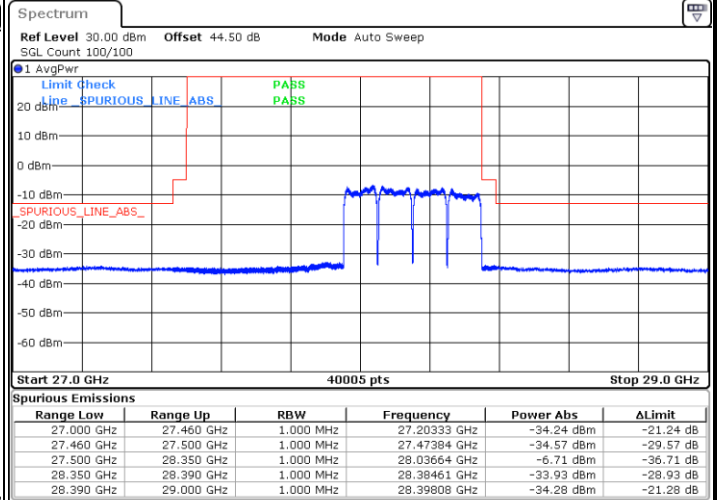
NR Band n261 / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8.SEP.2020 03:29:44



Date: 8.SEP.2020 05:51:25



Spurious Emission

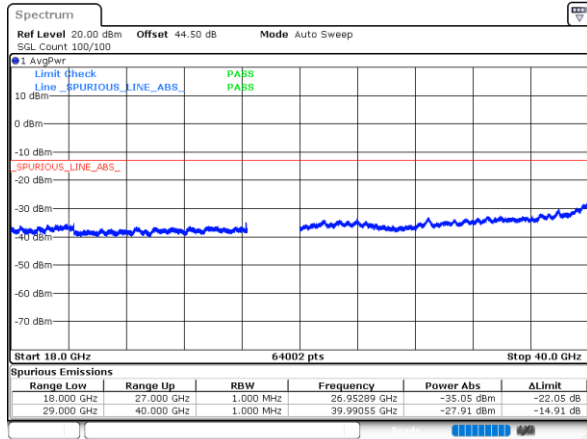


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

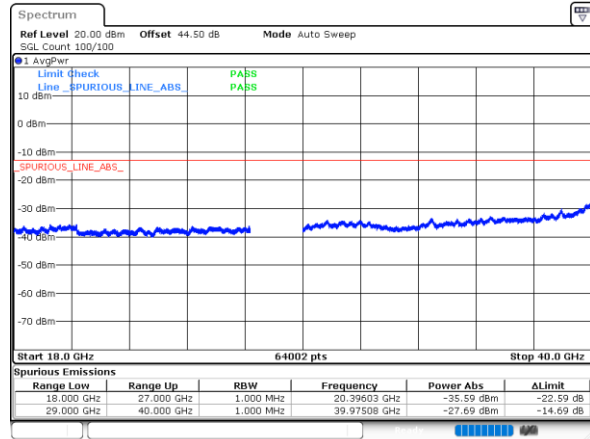
DFT-s-OFDM Module 2

NR Band n261 BPSK (18-40GHz)

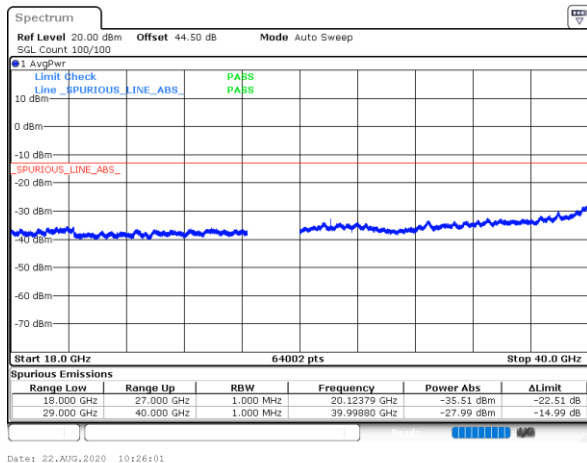
Lowest Channel / 50MHz



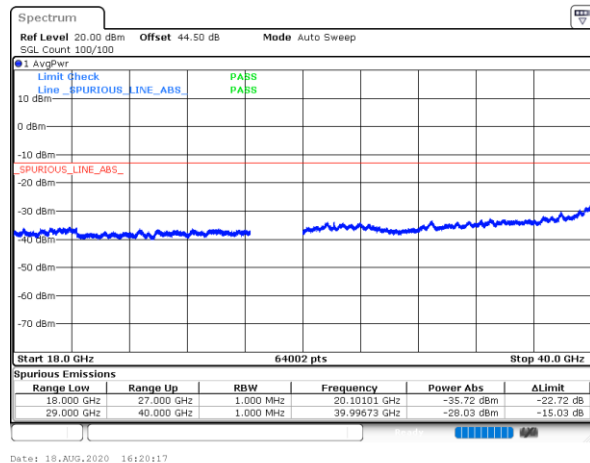
Lowest Channel / 100MHz



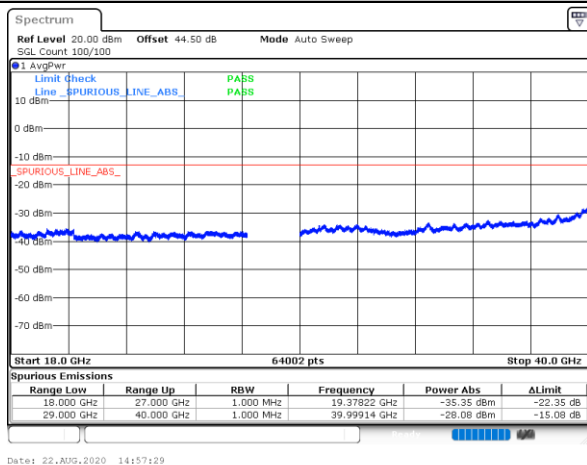
Middle Channel / 50MHz



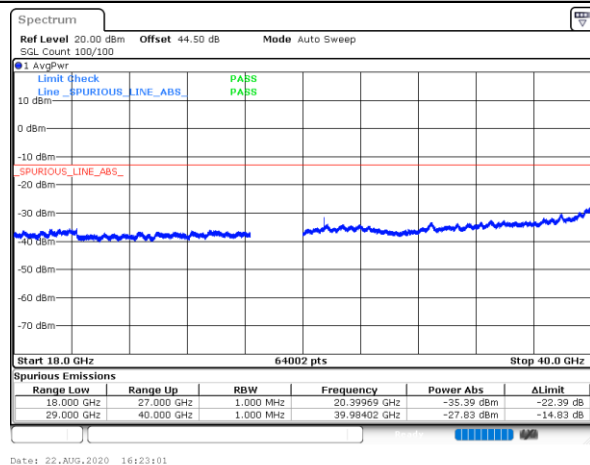
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

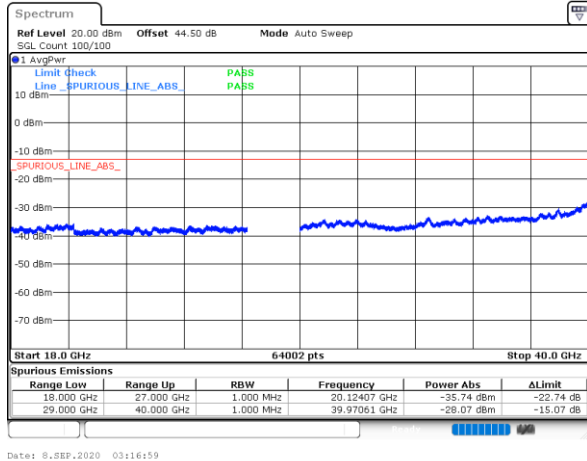




DFT-s-OFDM Module 2

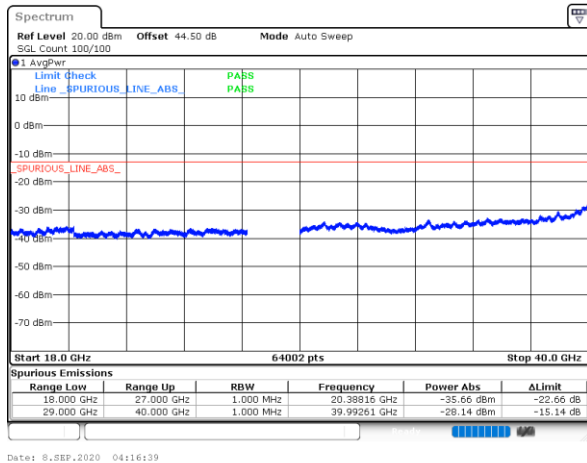
NR Band n261 BPSK (18-40GHz)

Lowest Channel / 400MHz



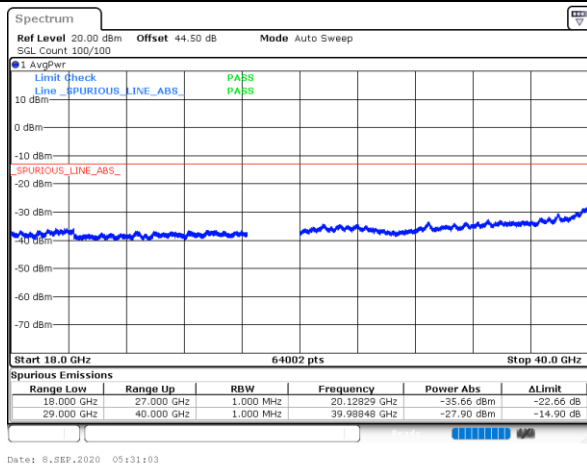
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



intentionally blank