



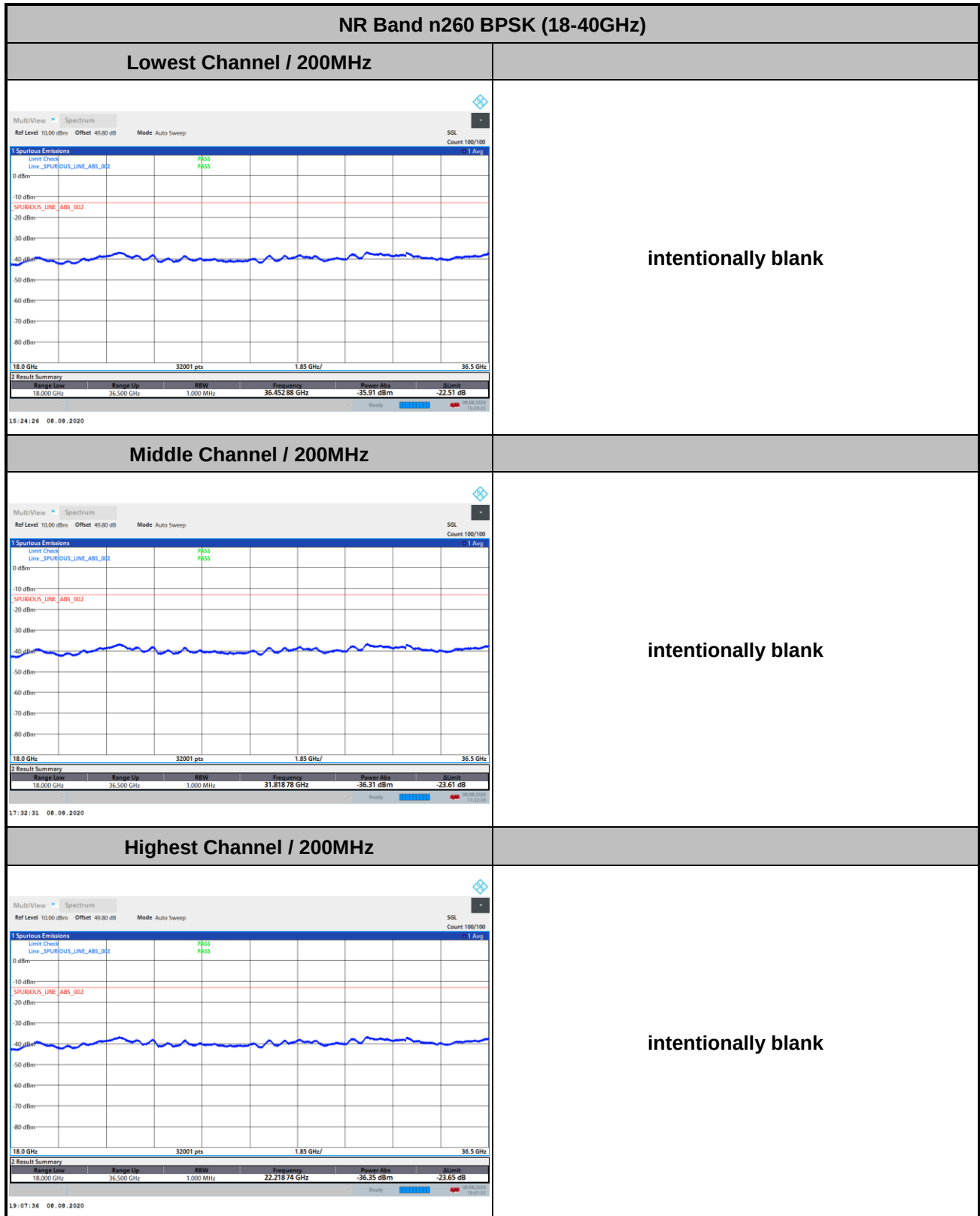
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module 0



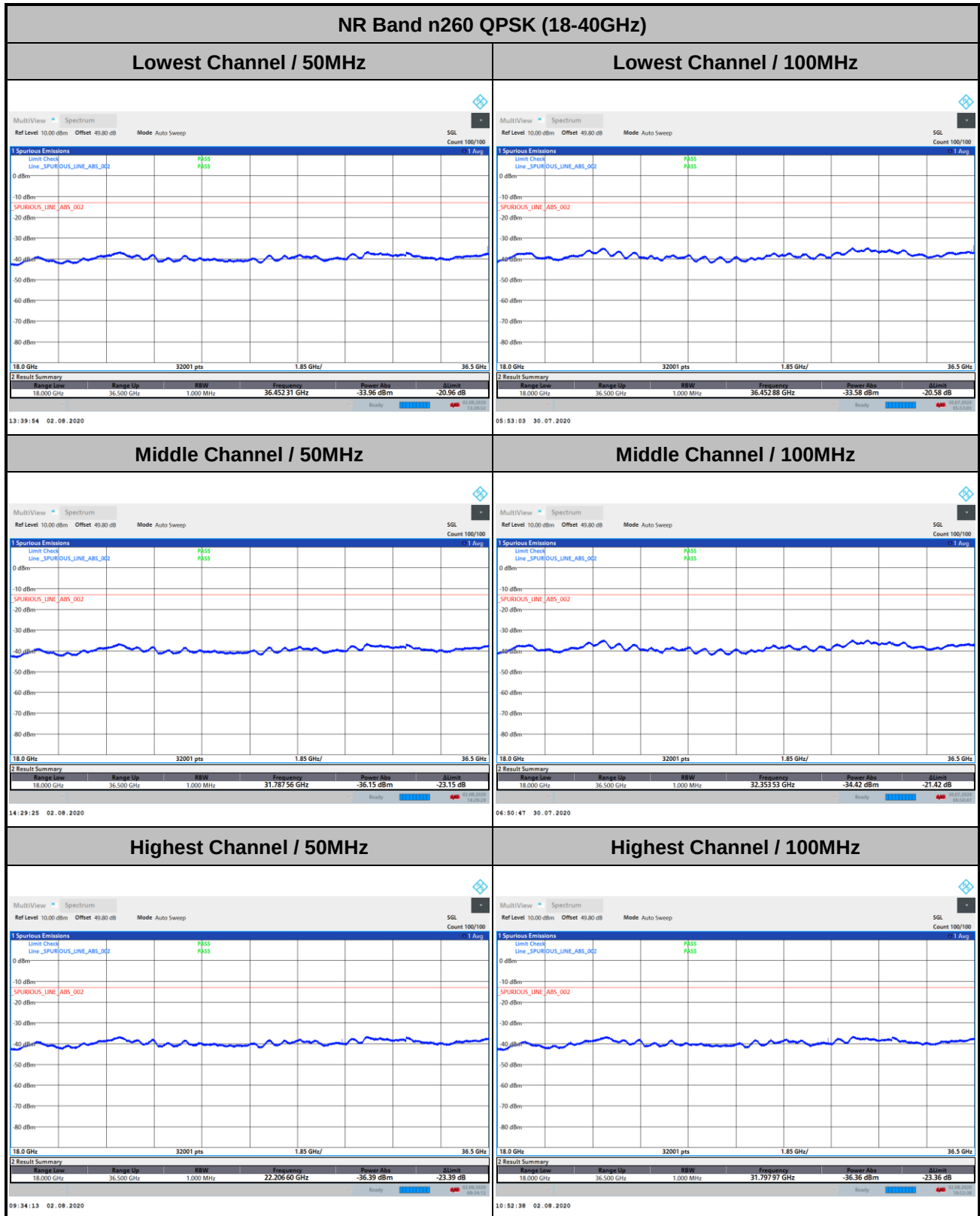


DFT-s-OFDM Module 0



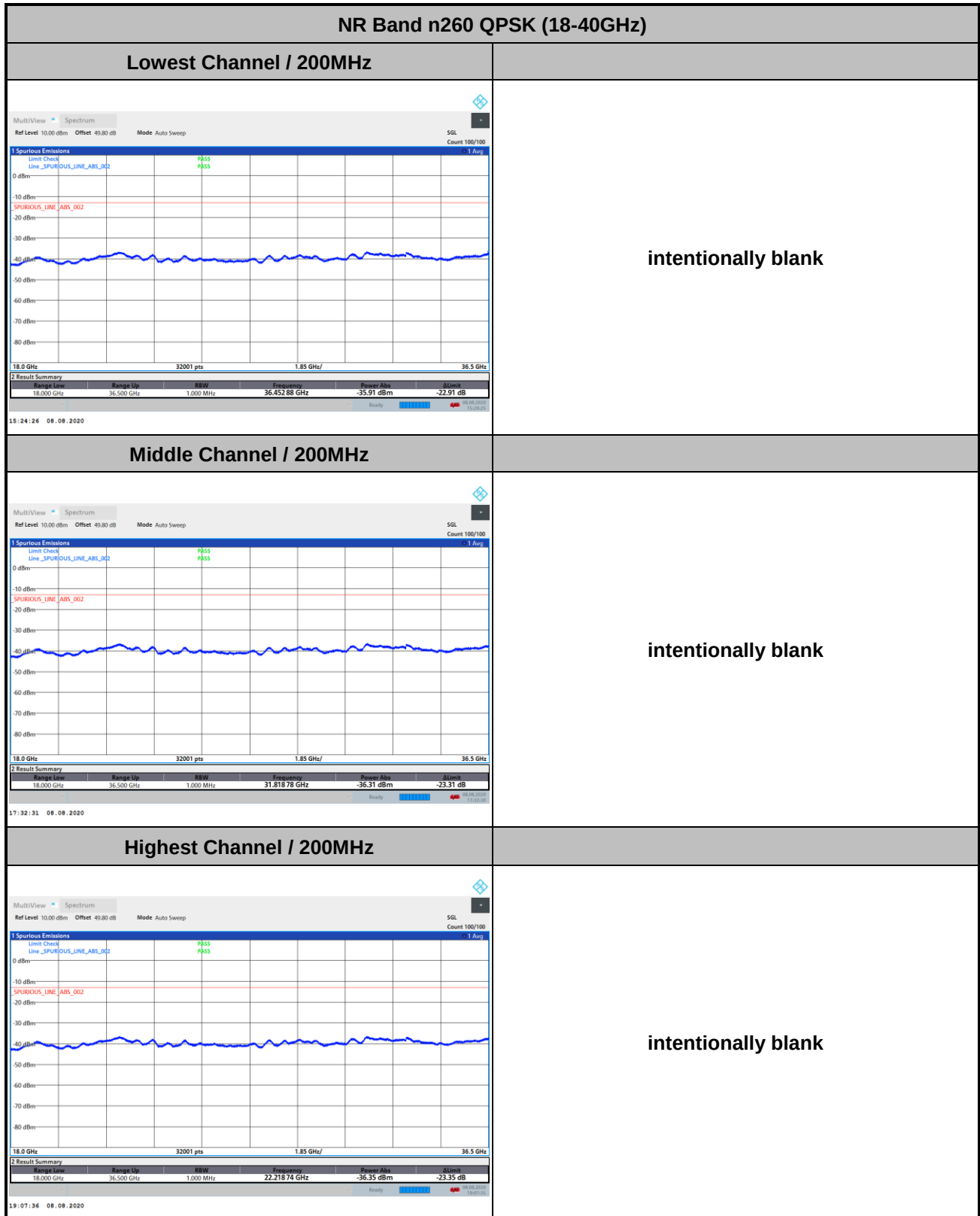


DFT-s-OFDM Module 0



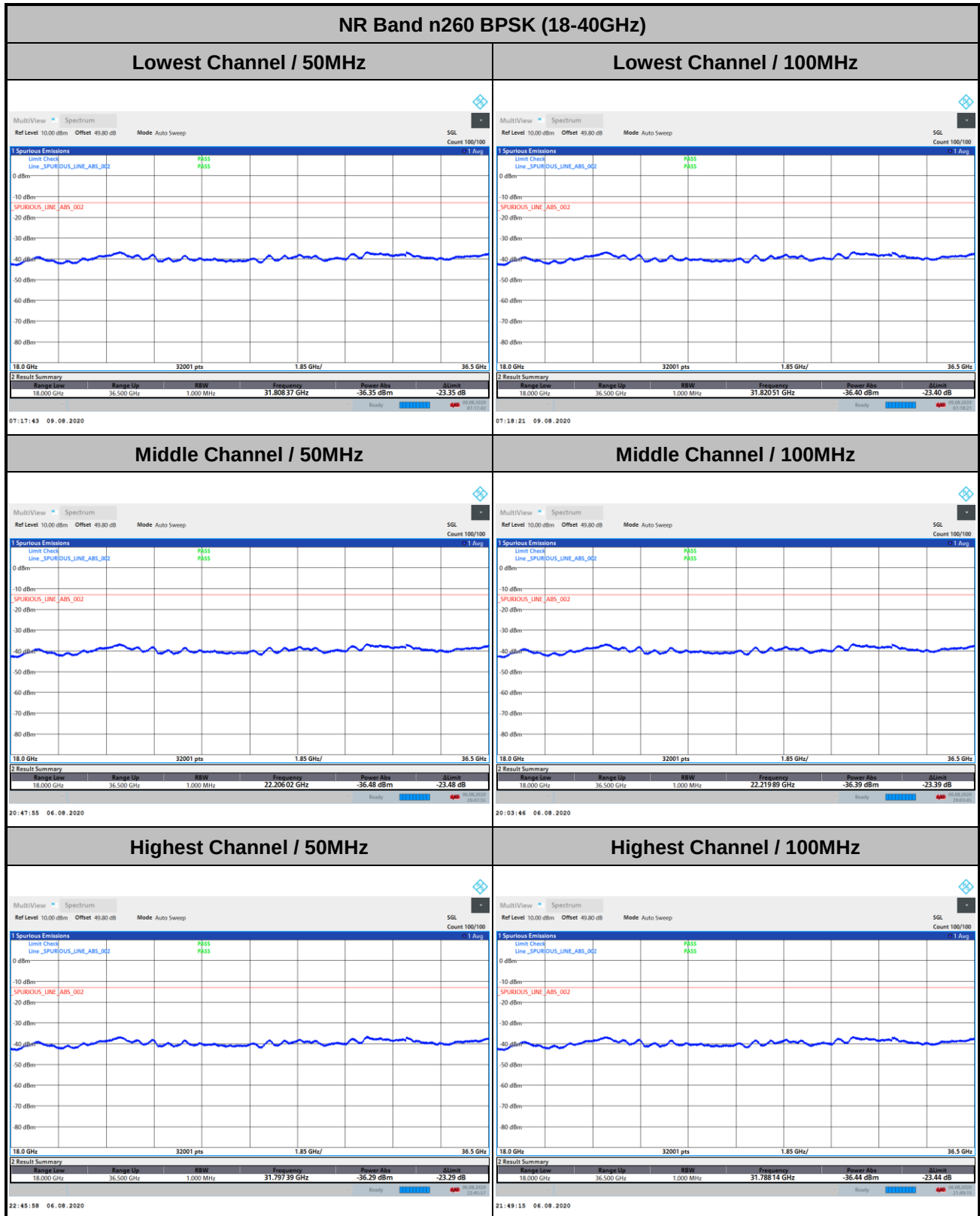


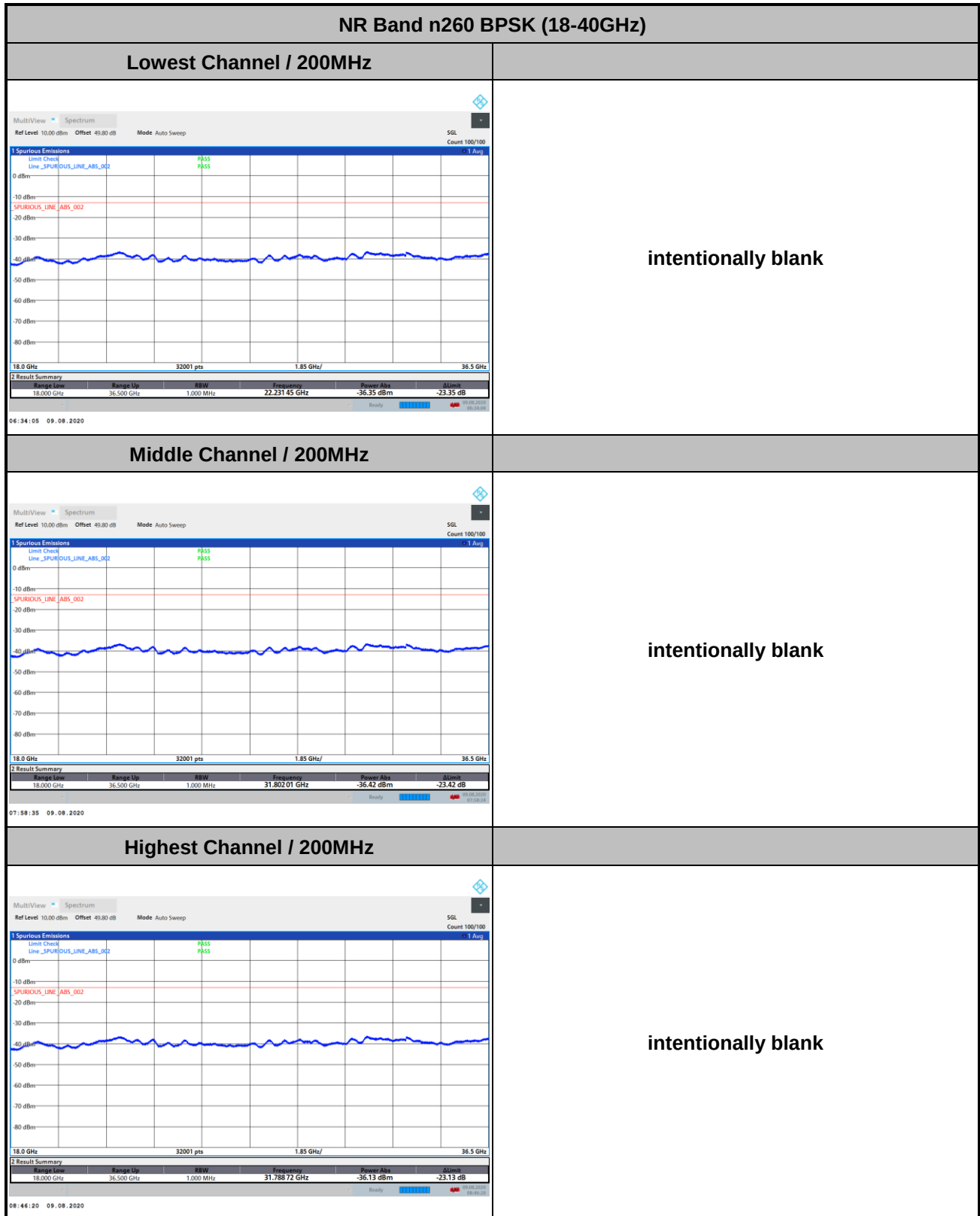
DFT-s-OFDM Module 0





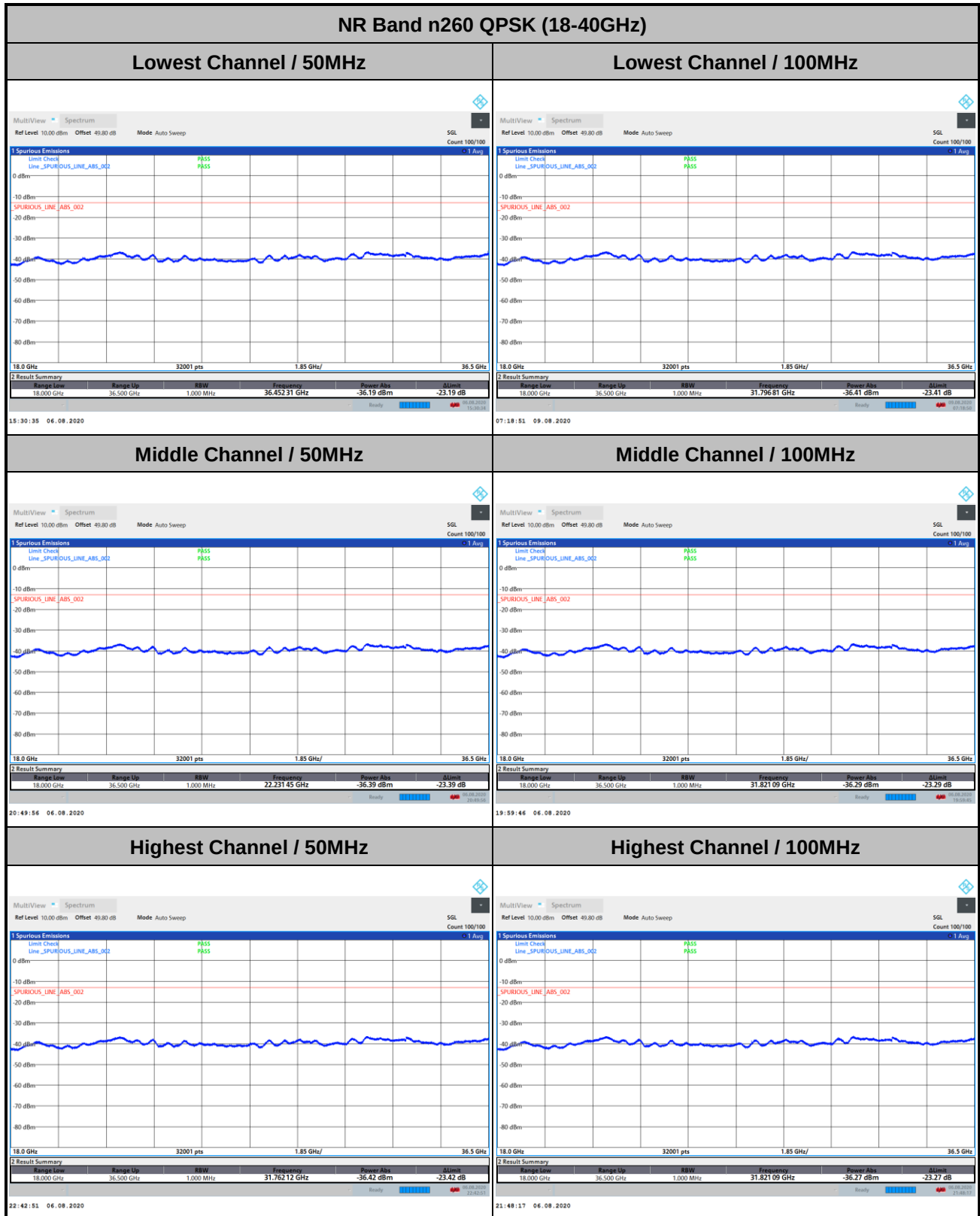
DFT-s-OFDM Module 1

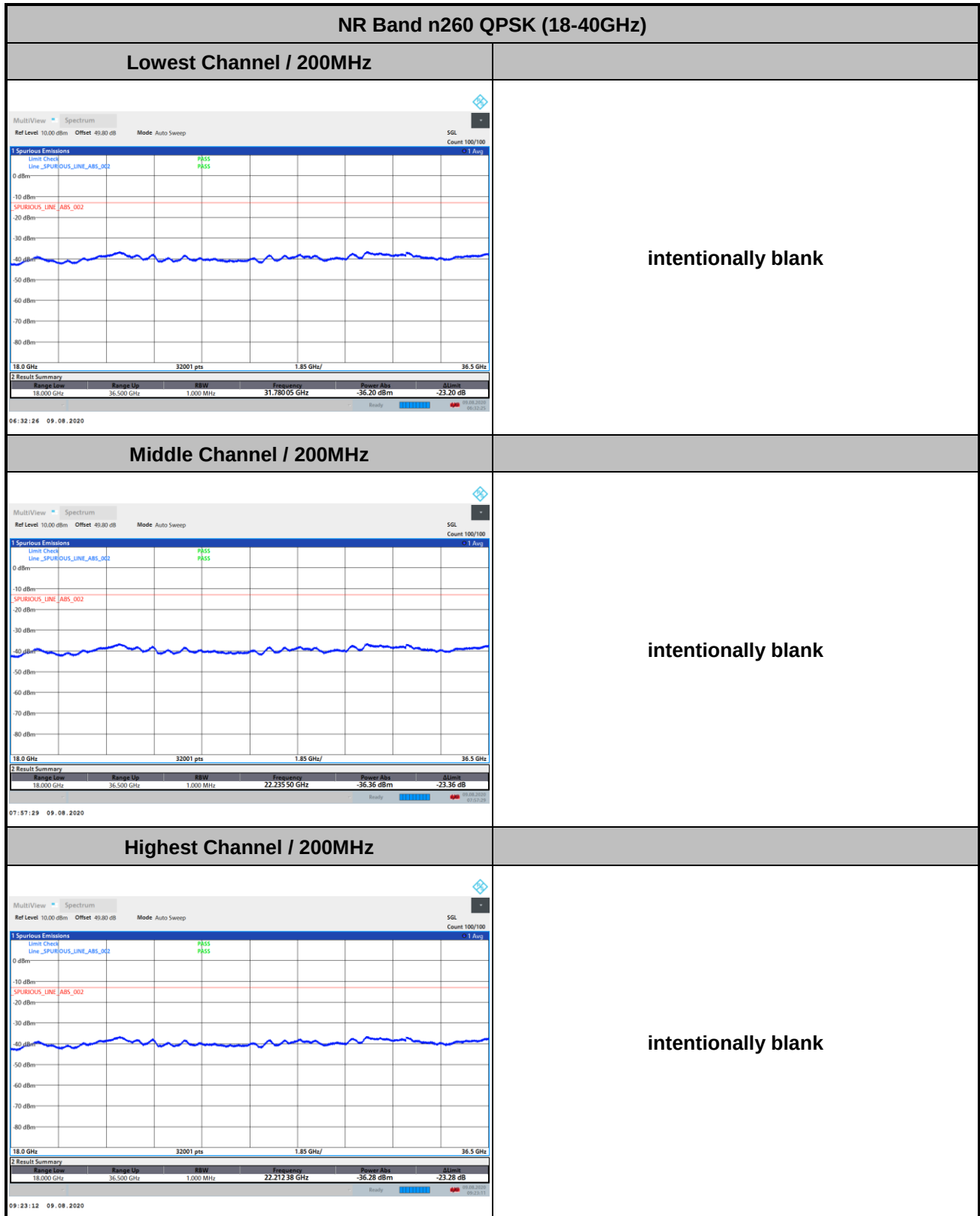


**DFT-s-OFDM Module 1**



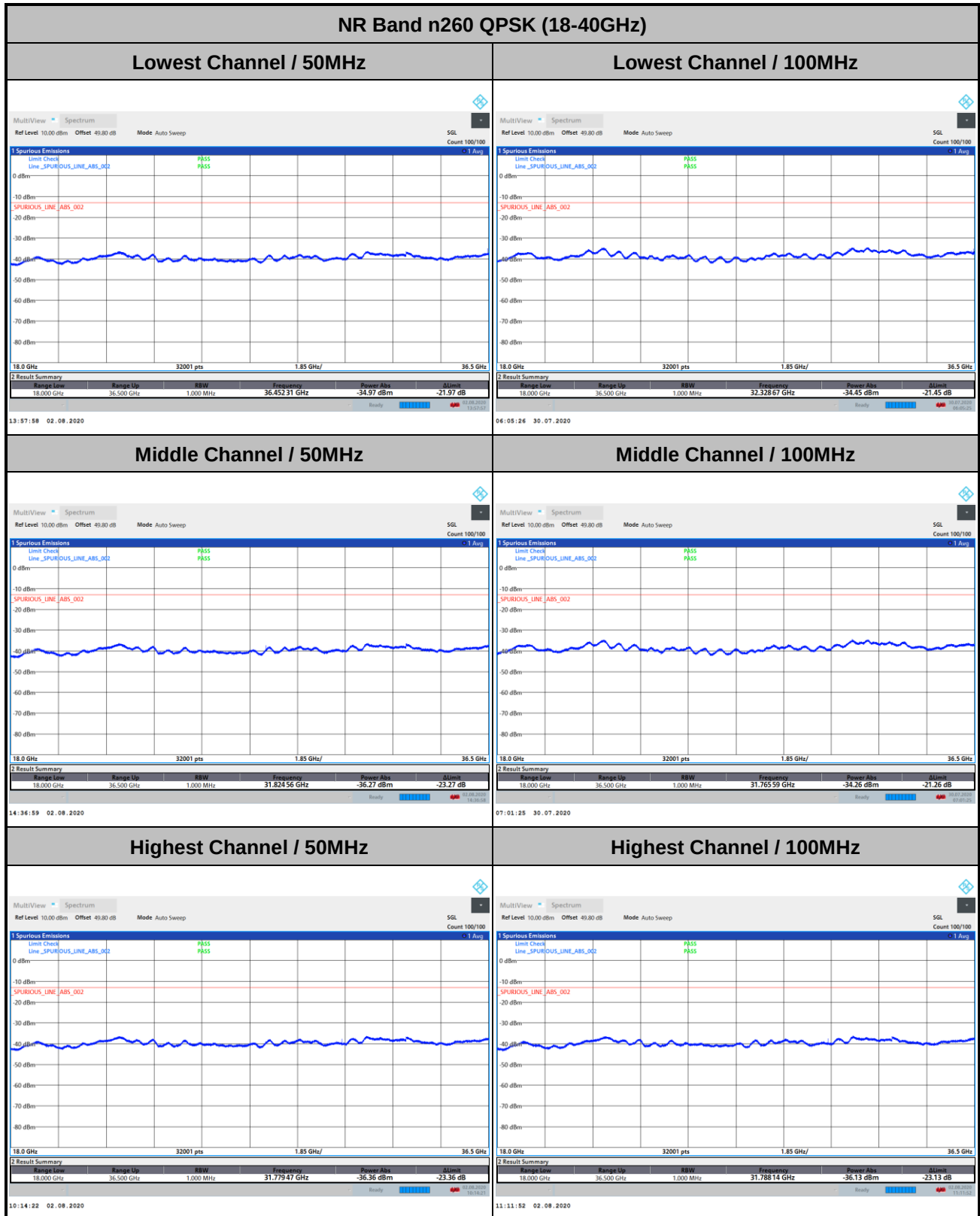
DFT-s-OFDM Module 1



**DFT-s-OFDM Module 1**

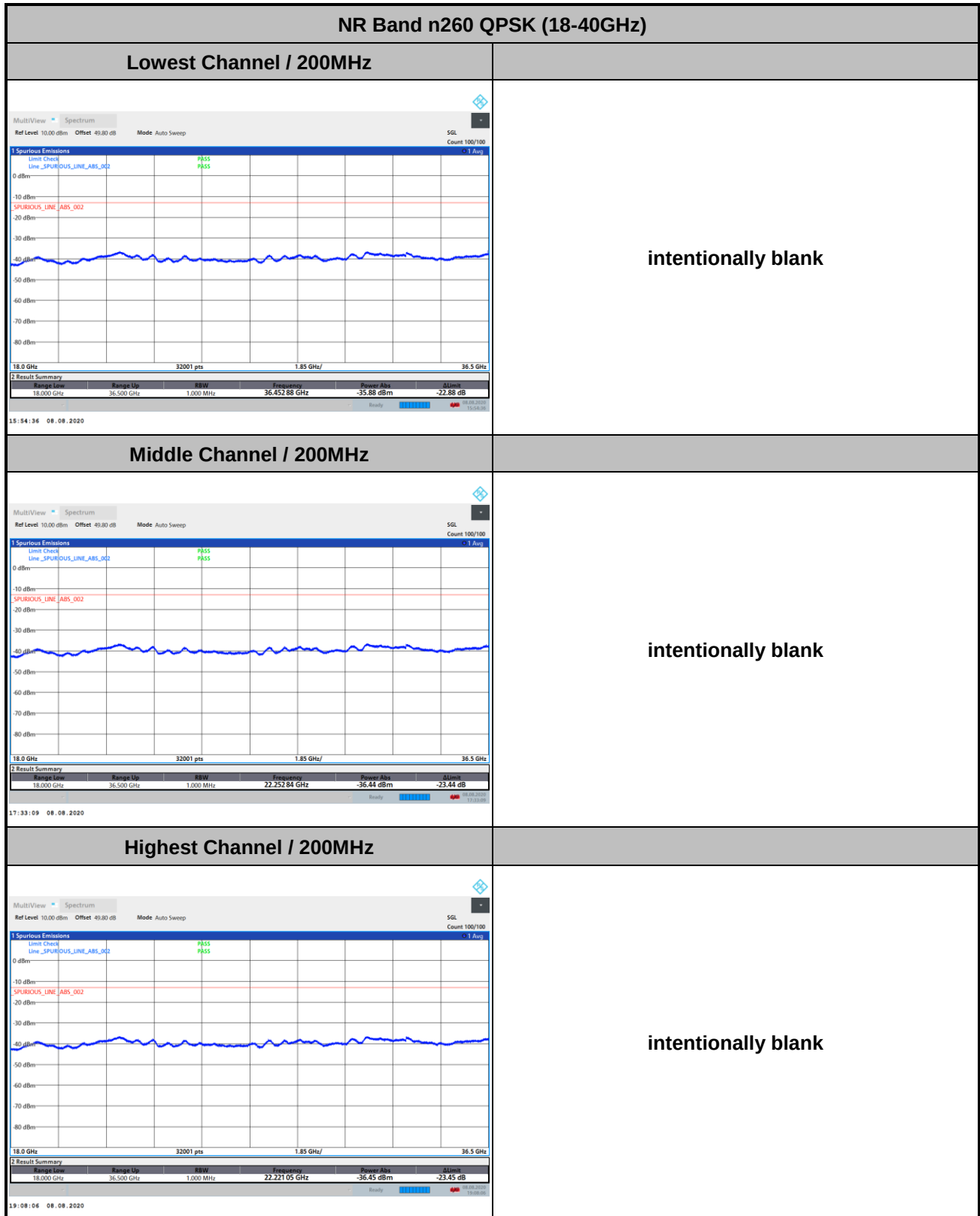


CP-OFDM Module 0



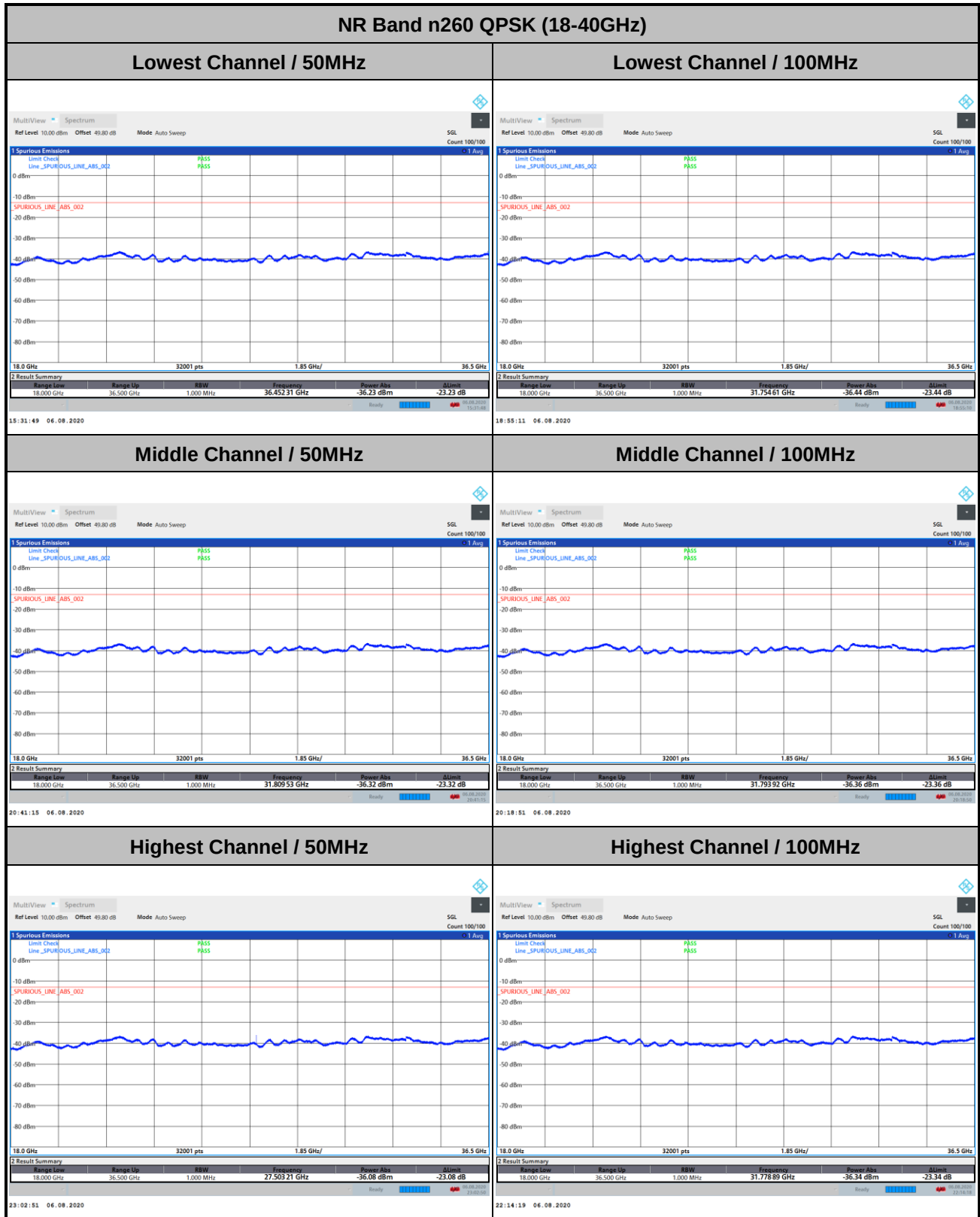


CP-OFDM Module 0



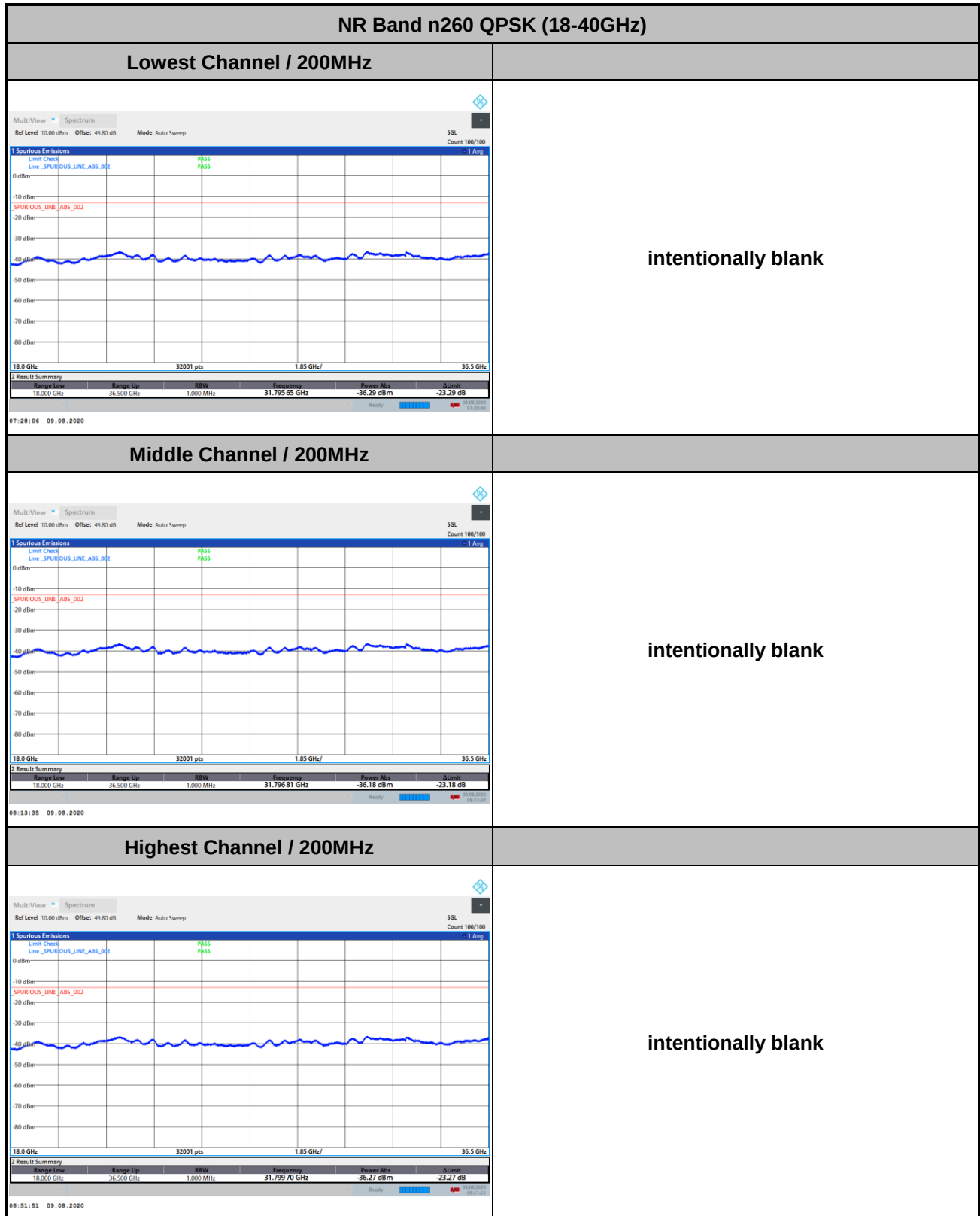


CP-OFDM Module 1



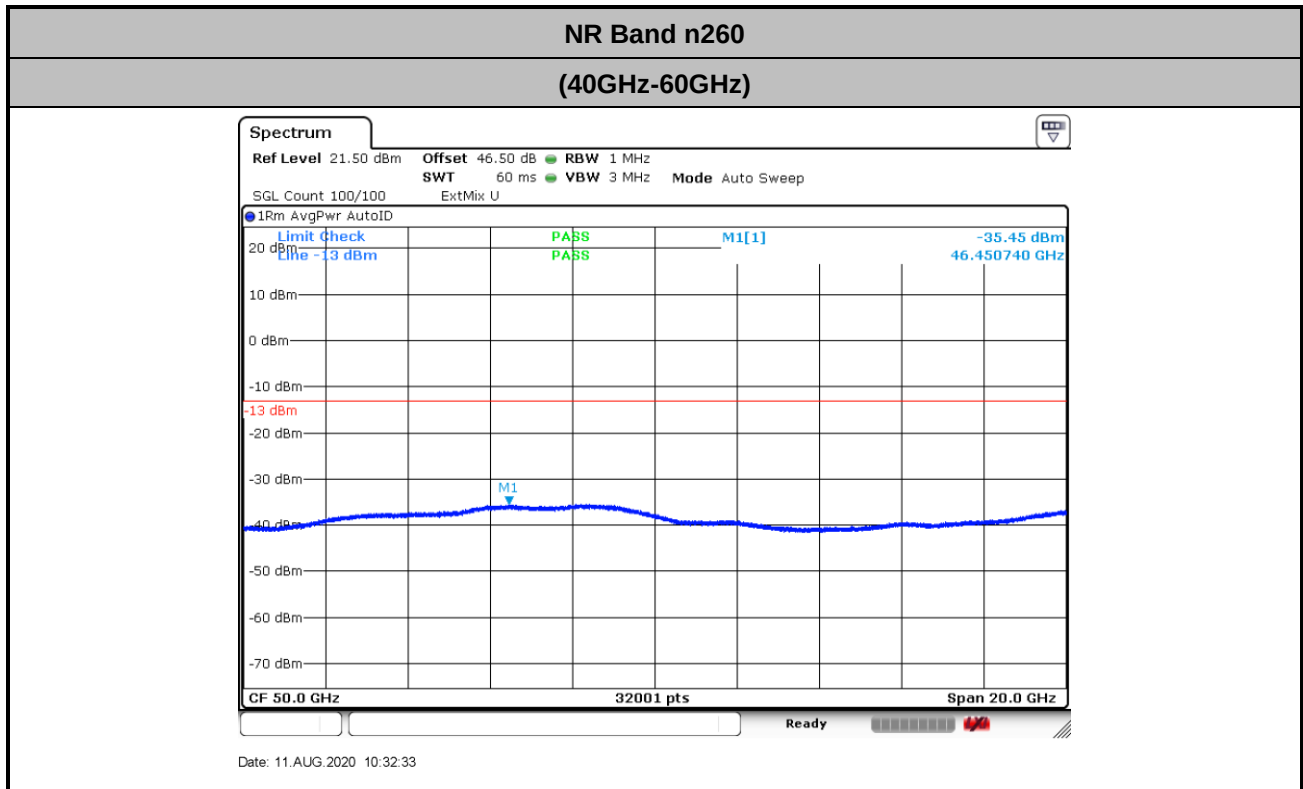


CP-OFDM Module 1

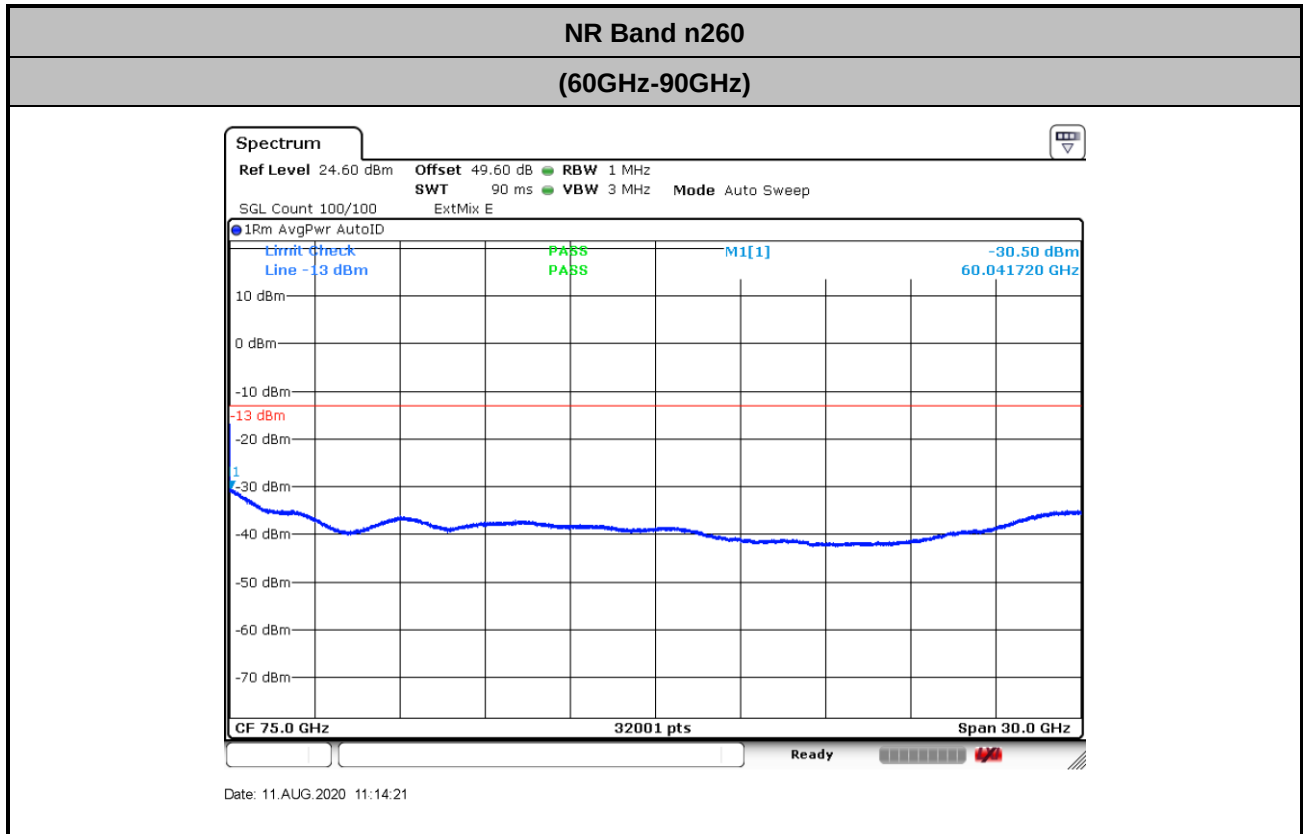




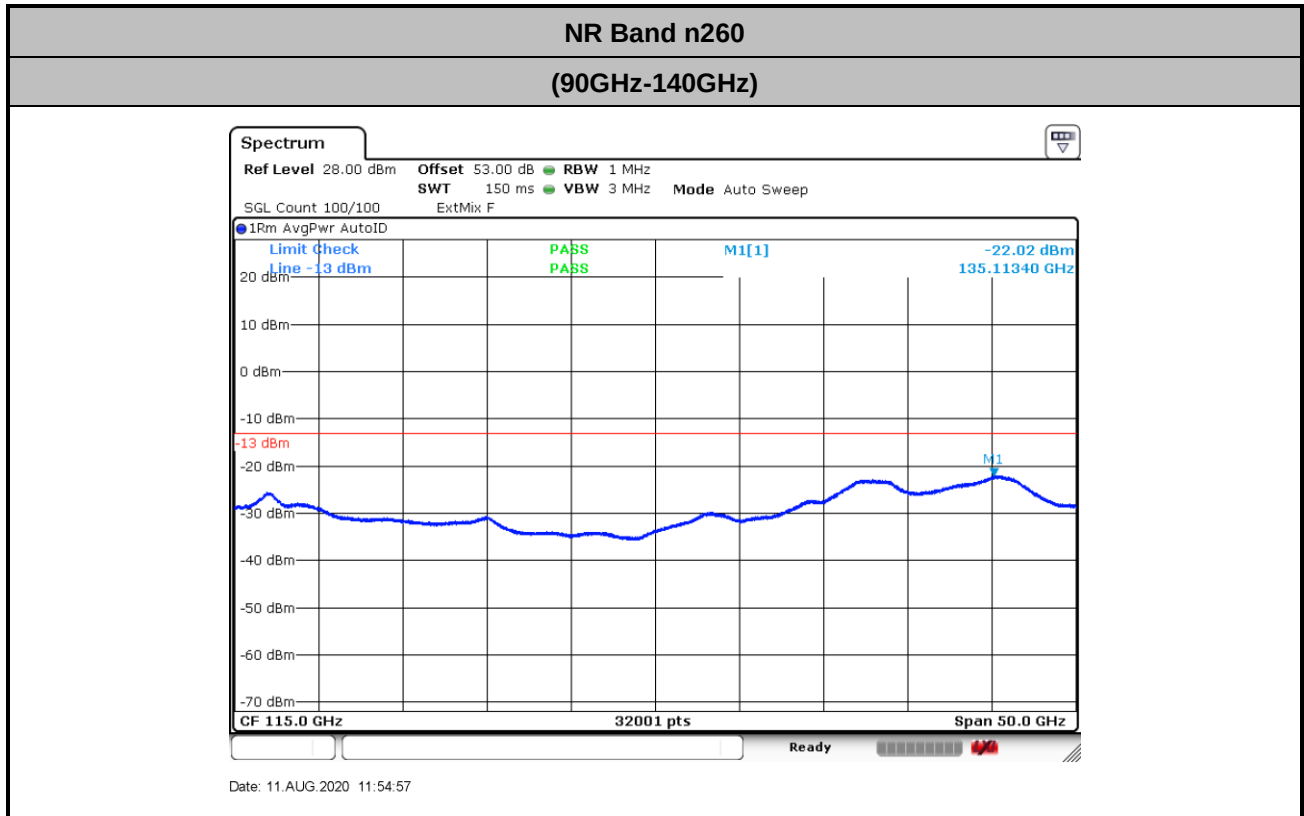
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.



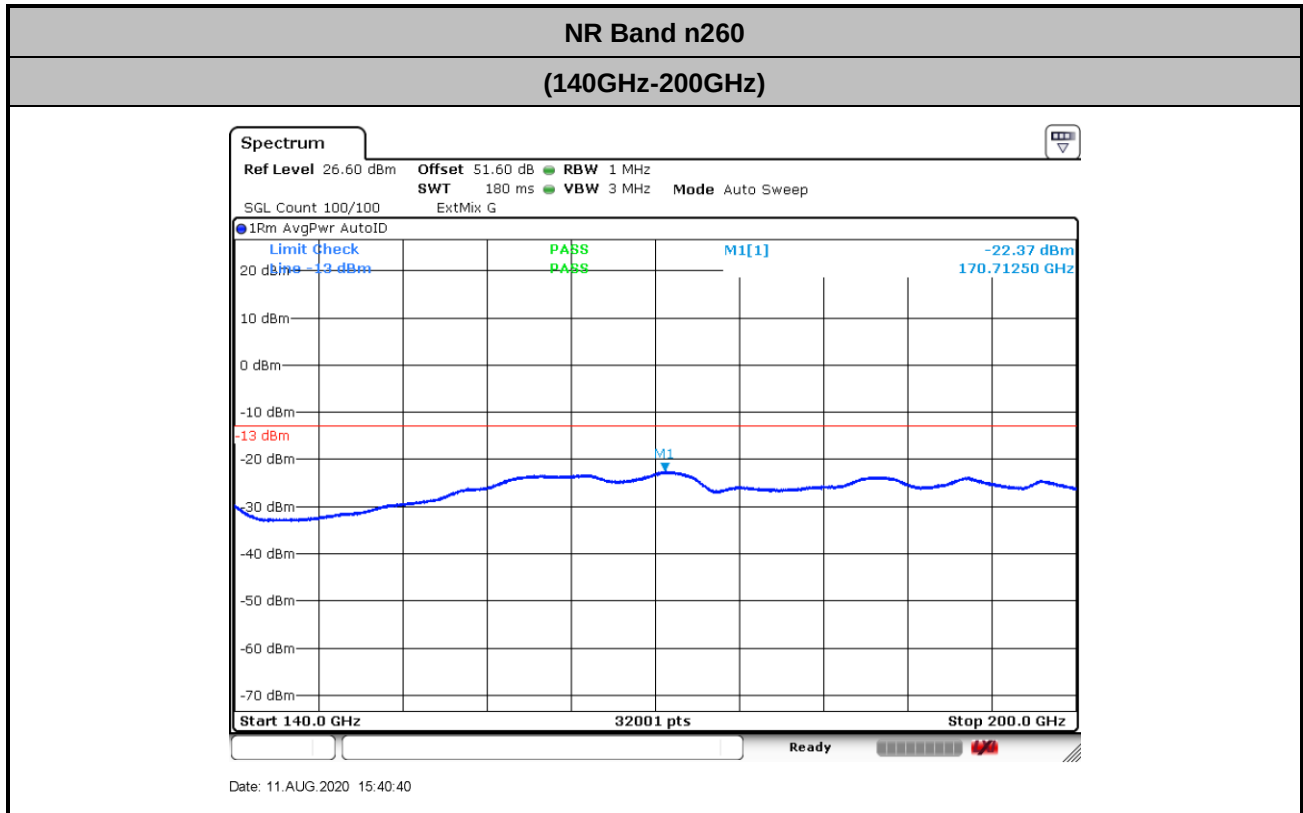
$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.1 + 2.2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}\end{aligned}$$



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



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 48.8 + 2 + 107 + 20\log(1) - 104.8 = 53 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 53.4 + 2 + 107 + 20\log(0.5) - 104.8 = 51.6 \text{ (dB)} \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.4998082	185.800	4.826	Pass
40	Normal Voltage	38.4998372	156.800	4.073	
30	Normal Voltage	38.4998701	123.900	3.218	
20(Ref.)	Normal Voltage	38.499994	0.000	0.000	
10	Normal Voltage	38.5000679	-73.900	1.919	
0	Normal Voltage	38.500041	-47.000	1.221	
-10	Normal Voltage	38.5001588	-164.800	4.281	
-20	Normal Voltage	38.5000899	-95.900	2.491	
-30	Normal Voltage	38.5002627	-268.700	6.979	
20	Maximum Voltage	38.499966	28.000	0.727	
20	Normal Voltage	38.4999431	50.900	1.322	
20	Battery End Point	38.499994	0.000	0.000	

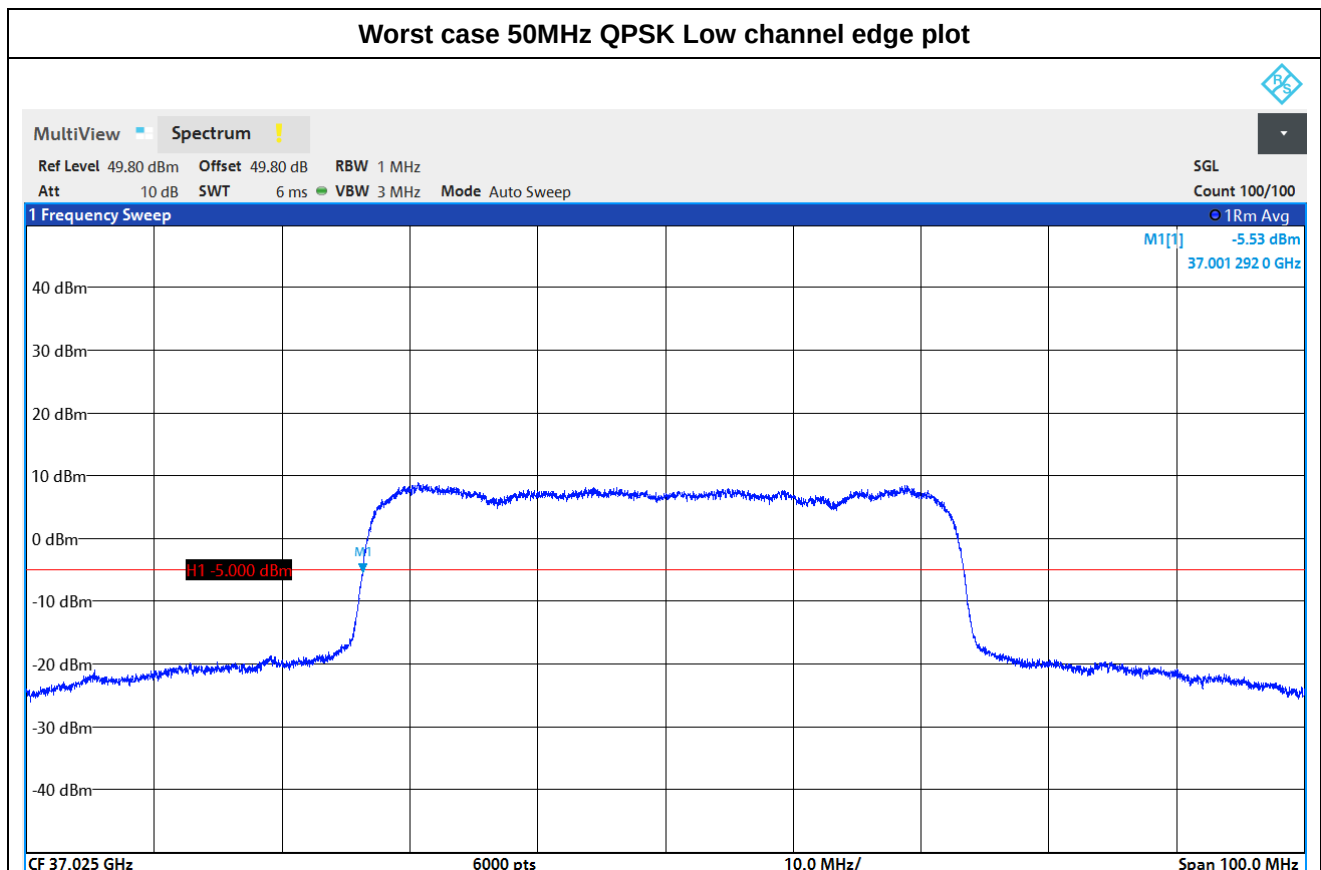
Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 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 37,000,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	37,001,292,000	1,292,000	268.700	Compliance
100MHz	37,001,750,000	1,750,000	268.700	Compliance
200MHz	37,002,900,000	2,900,000	268.700	Compliance

Channel Bandwidth	High channel edge frequency close to -5dBm/MHz limit (Hz)	Freq. gap to the lower edge 40,000,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	39,998,075,000	1,925,000	268.700	Compliance
100MHz	39,995,183,000	4,817,000	268.700	Compliance
200MHz	39,994,167,000	5,833,000	268.700	Compliance



NR Band n261 AG0

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.48	45.54	45.34	45.30	90.40	90.36	90.44	90.40	188.40	188.24	188.08	188.00
Middle CH	45.38	45.48	45.30	45.24	90.08	90.48	90.56	90.44	188.80	188.64	188.48	188.32
Highest CH	45.48	45.56	45.36	45.36	90.24	90.56	90.60	90.60	187.84	188.00	187.84	187.60

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.30	45.14	45.36	45.36	90.20	90.08	90.28	90.36	188.16	188.00	188.80	188.32
Middle CH	45.24	45.06	45.28	45.30	90.32	90.12	90.36	90.36	188.80	188.72	188.56	188.32
Highest CH	45.32	45.16	45.32	45.40	90.56	90.52	90.52	90.56	188.08	188.00	187.92	187.60

Mode	CP-OFDM Module 0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.38	45.26	45.24	92.96	93.16	92.88	190.40	190.00	190.16
Middle CH	45.36	45.14	45.18	92.88	93.16	93.28	190.72	190.80	190.72
Highest CH	45.40	45.30	45.28	92.92	93.04	93.12	189.84	189.92	189.68

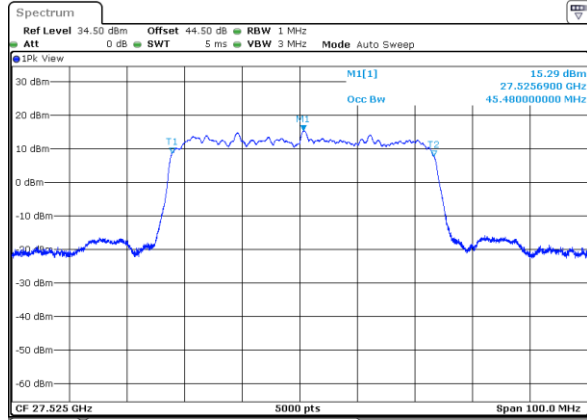
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.36	45.36	45.30	92.92	92.84	92.72	190.32	190.32	190.00
Middle CH	45.30	45.28	45.20	92.96	92.96	92.80	190.88	190.48	190.64
Highest CH	45.36	45.50	45.40	93.12	93.16	93.00	190.08	189.52	189.60



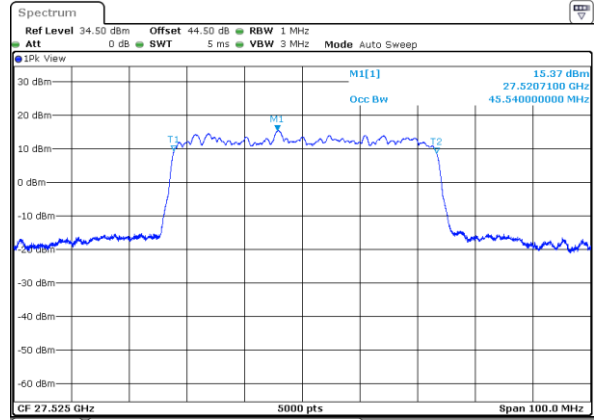
DFT-s-OFDM Module 0

NR Band n261

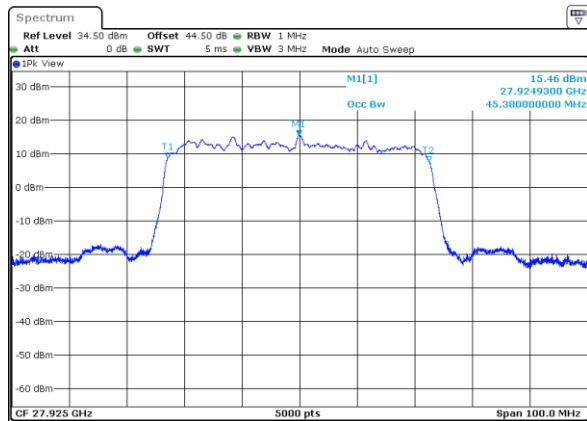
Lowest Channel / 50MHz / BPSK



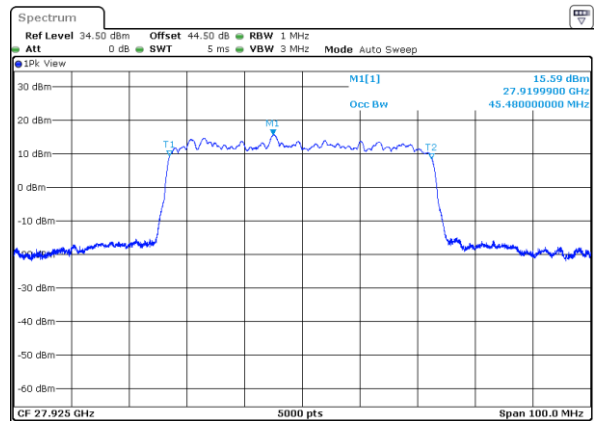
Lowest Channel / 50MHz / QPSK



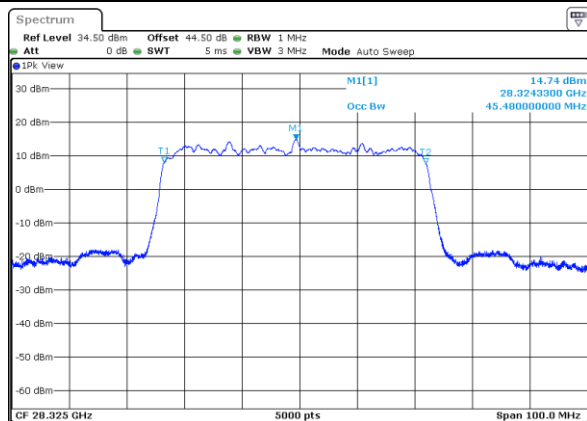
Middle Channel / 50MHz / BPSK



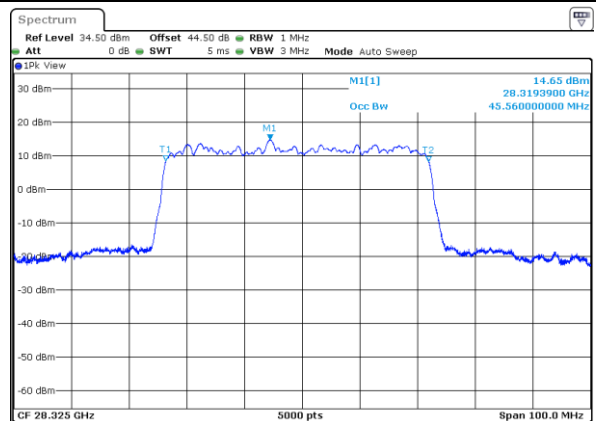
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

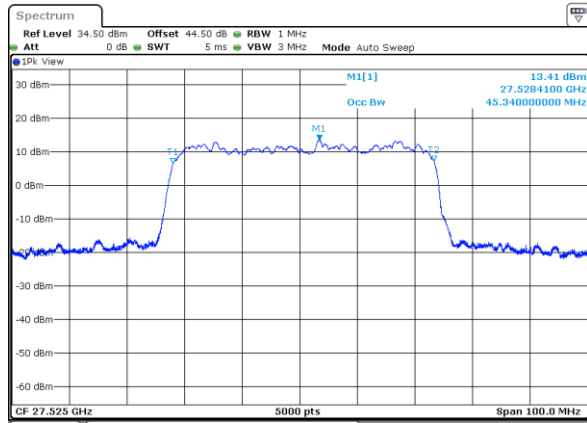




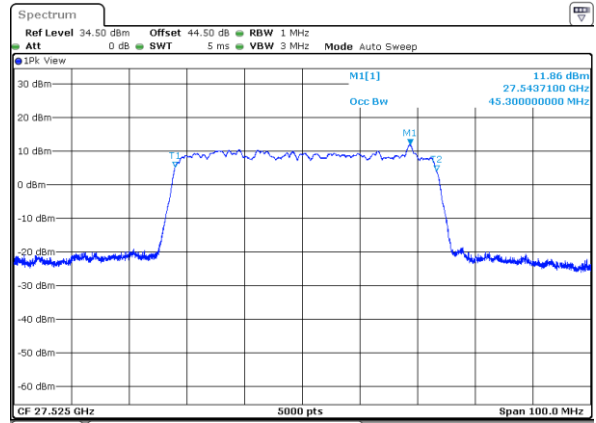
DFT-s-OFDM Module 0

NR Band n261

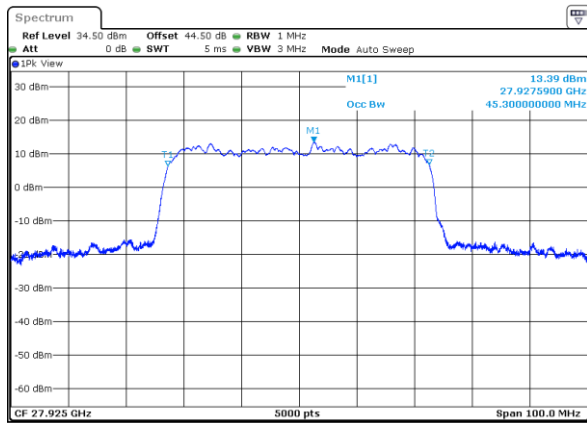
Lowest Channel / 50MHz / 16QAM



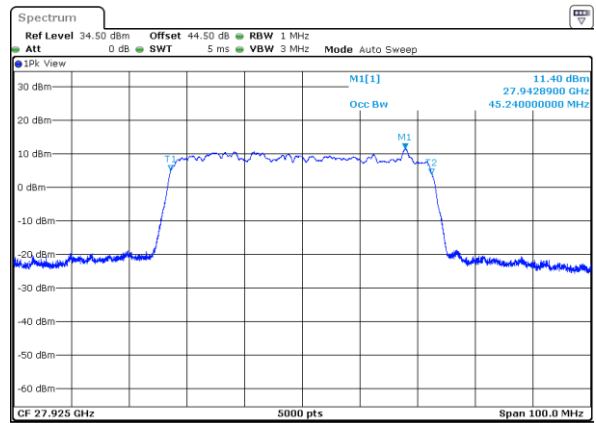
Lowest Channel / 50MHz / 64QAM



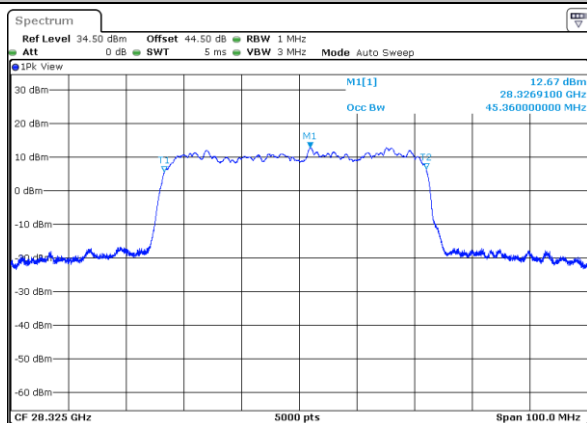
Middle Channel / 50MHz / 16QAM



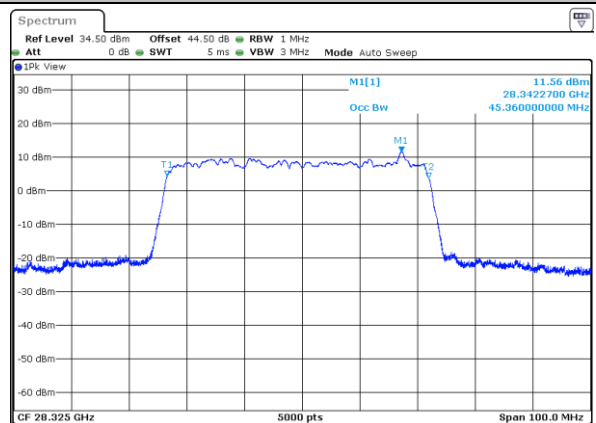
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

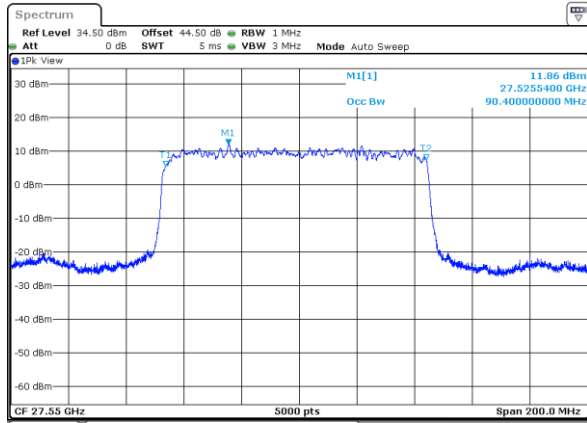




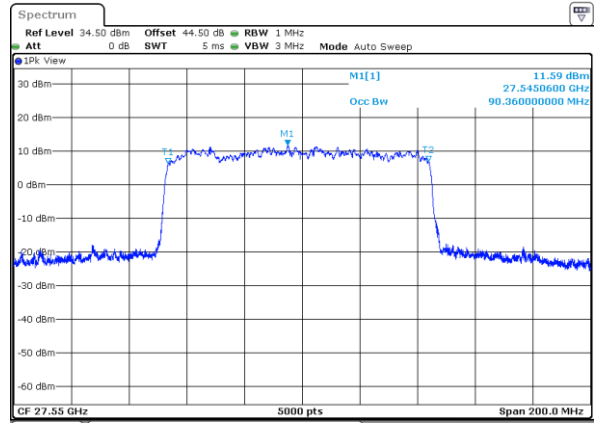
DFT-s-OFDM Module 0

NR Band n261

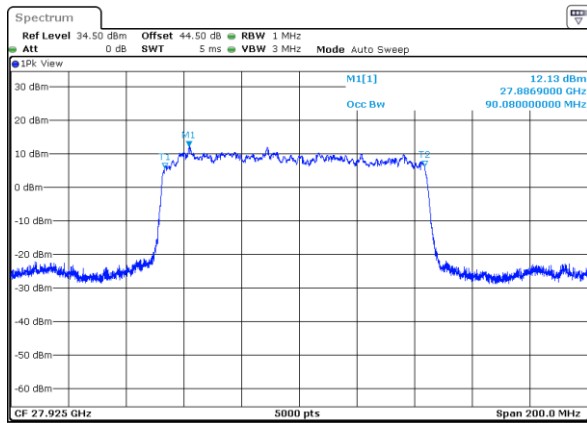
Lowest Channel / 100MHz / BPSK



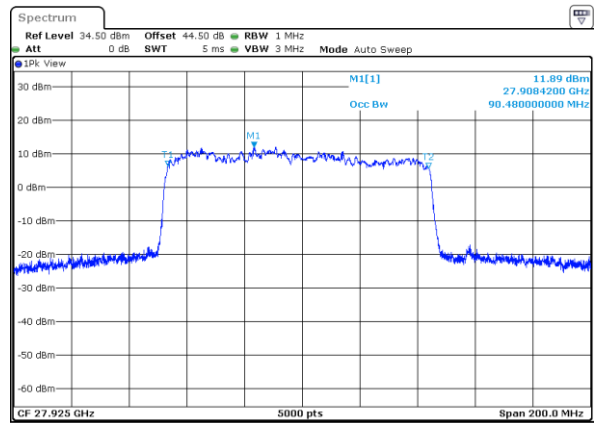
Lowest Channel / 100MHz / QPSK



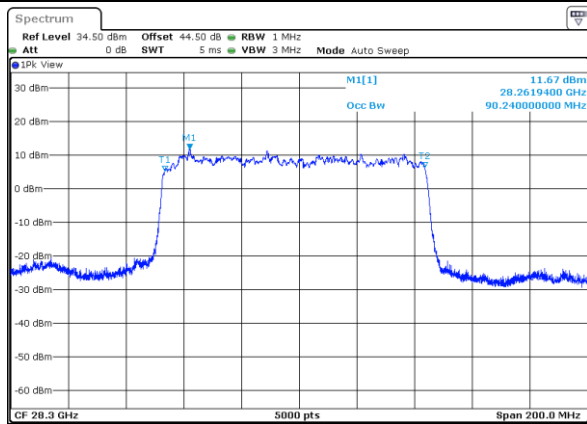
Middle Channel / 100MHz / BPSK



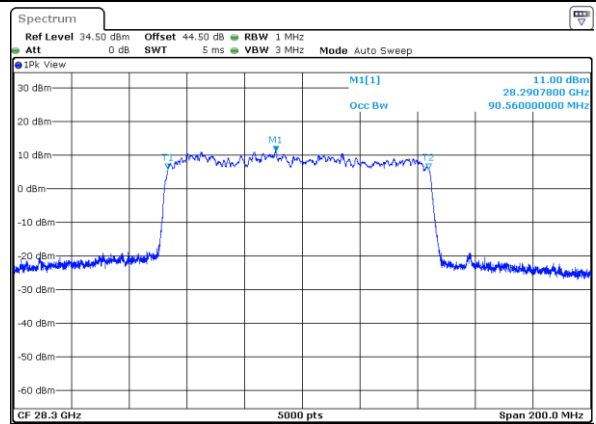
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

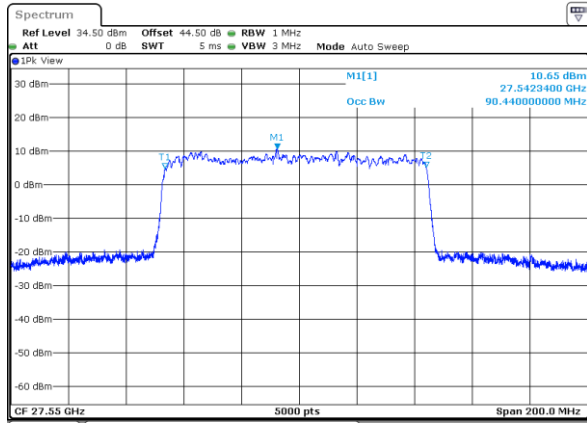




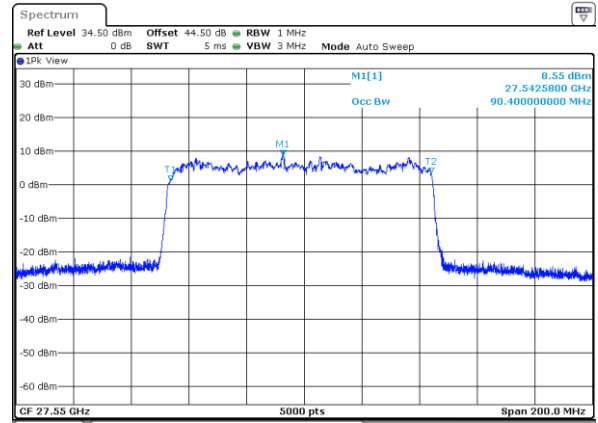
DFT-s-OFDM Module 0

NR Band n261

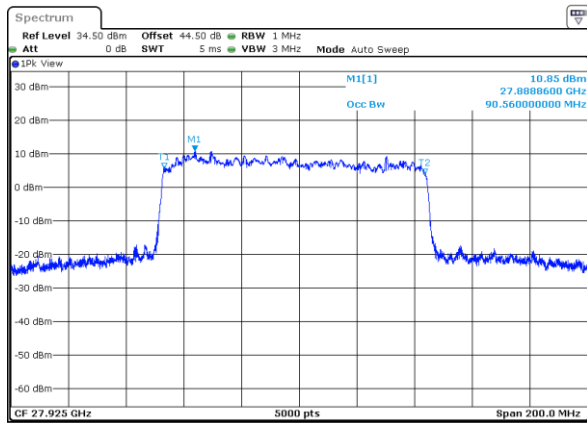
Lowest Channel / 100MHz / 16QAM



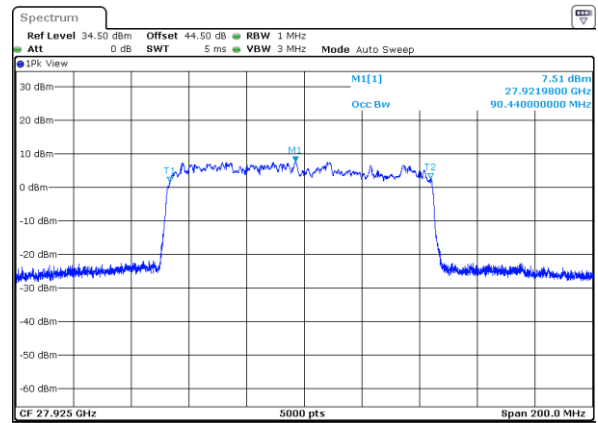
Lowest Channel / 100MHz / 64QAM



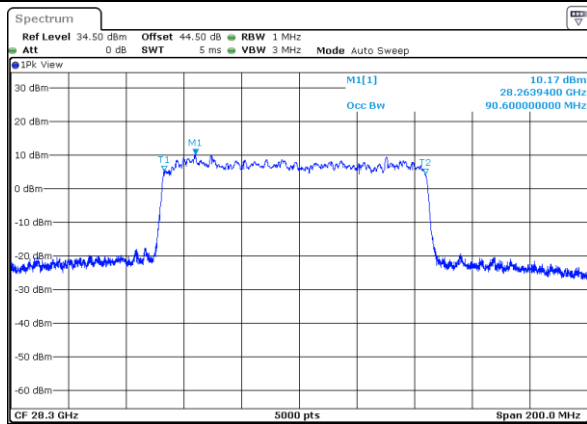
Middle Channel / 100MHz / 16QAM



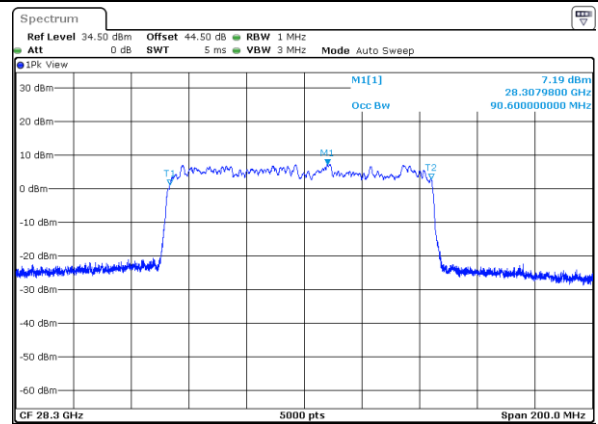
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

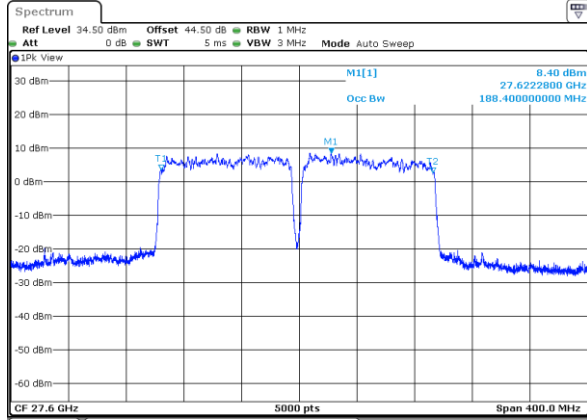




DFT-s-OFDM Module 0

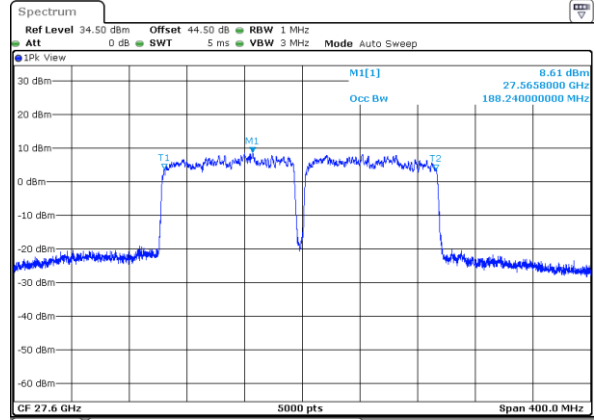
NR Band n261

Lowest Channel / 200MHz / BPSK



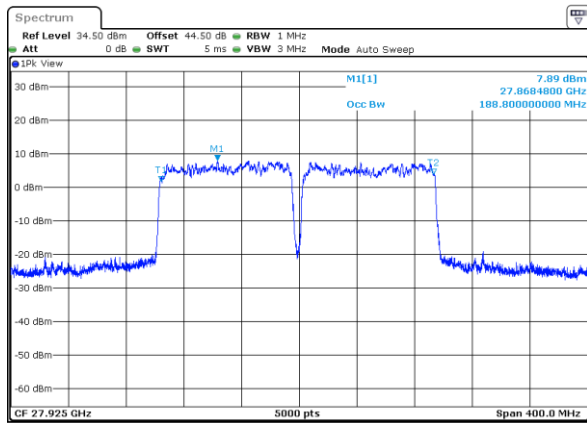
Date: 9,AUG,2020 11:29:22

Lowest Channel / 200MHz / QPSK



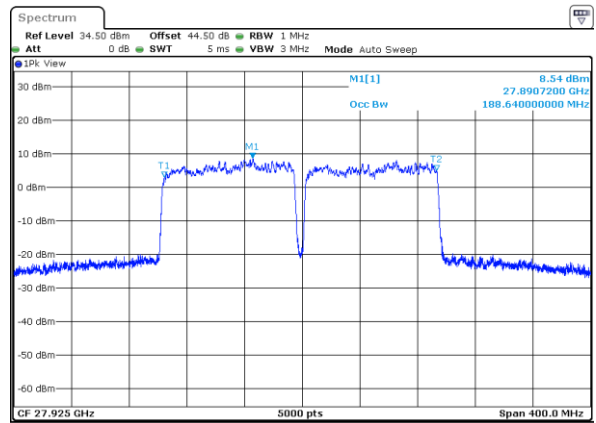
Date: 9,AUG,2020 11:30:46

Middle Channel / 200MHz / BPSK



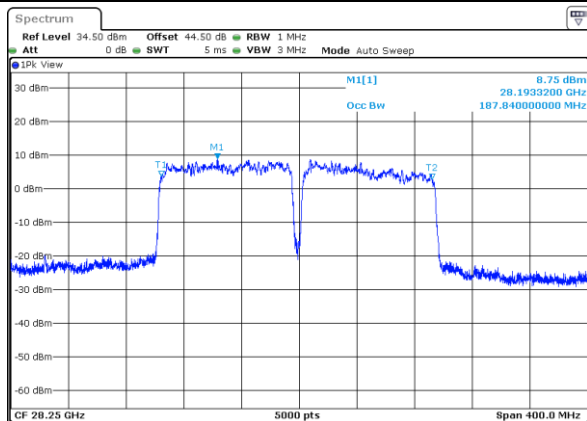
Date: 9,AUG,2020 12:19:53

Middle Channel / 200MHz / QPSK



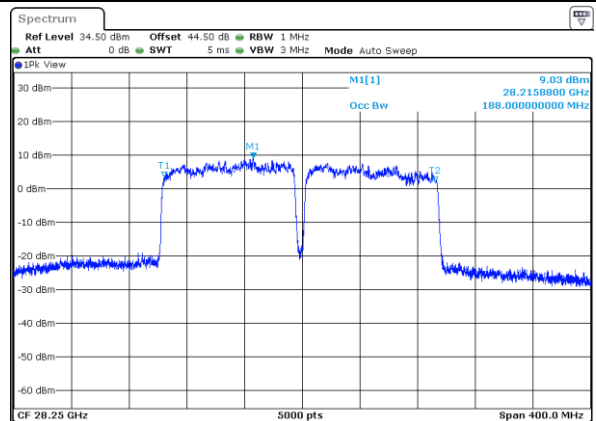
Date: 9,AUG,2020 12:20:53

Highest Channel / 200MHz / BPSK



Date: 9,AUG,2020 14:44:18

Highest Channel / 200MHz / QPSK



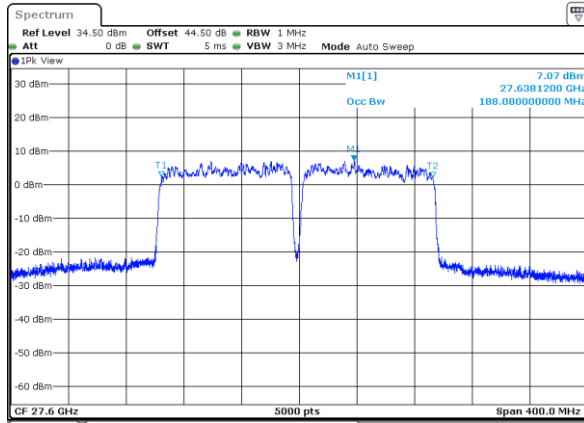
Date: 9,AUG,2020 14:47:44



DFT-s-OFDM Module 0

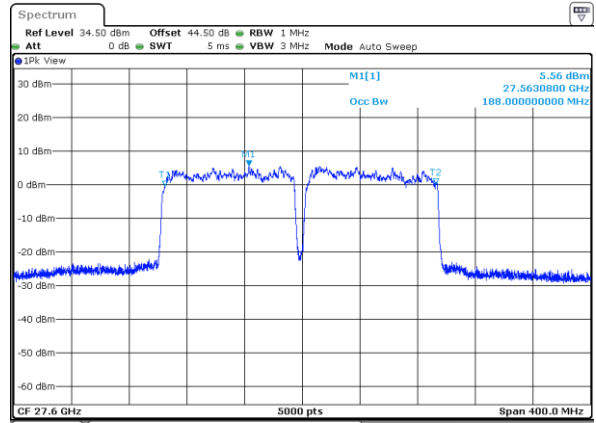
NR Band n261

Lowest Channel / 200MHz / 16QAM



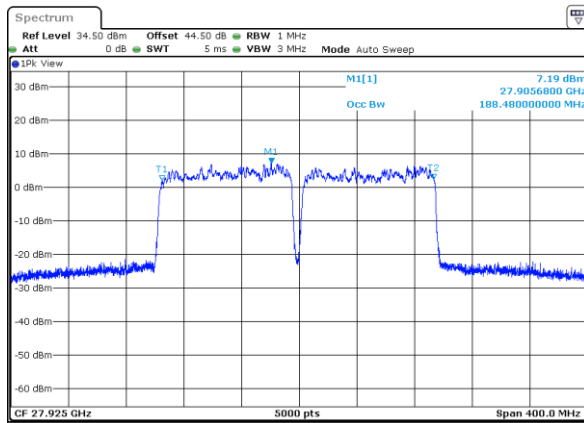
Date: 9,AUG,2020 11:32:51

Lowest Channel / 200MHz / 64QAM



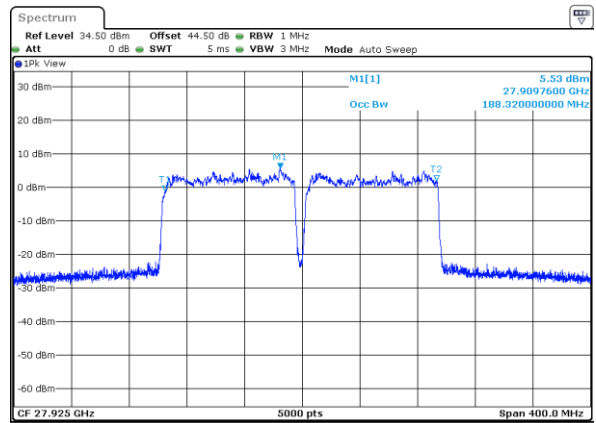
Date: 9,AUG,2020 11:34:36

Middle Channel / 200MHz / 16QAM



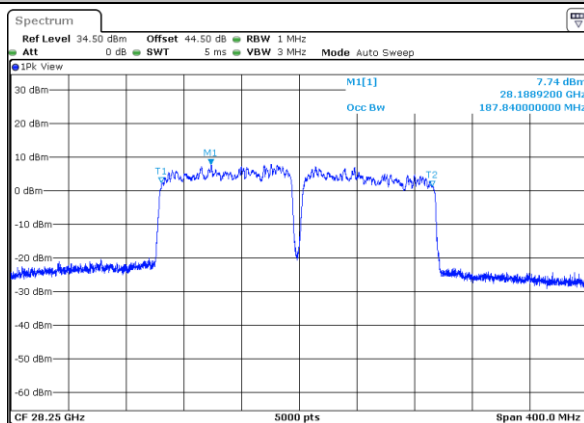
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Middle Channel / 200MHz / 64QAM



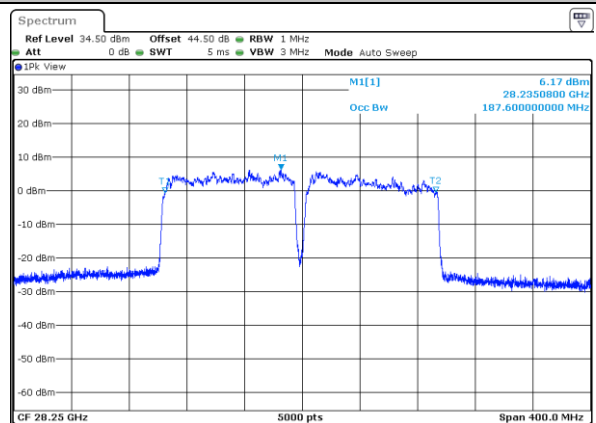
Date: 9,AUG,2020 12:22:39

Highest Channel / 200MHz / 16QAM



Date: 9,AUG,2020 14:51:14

Highest Channel / 200MHz / 64QAM



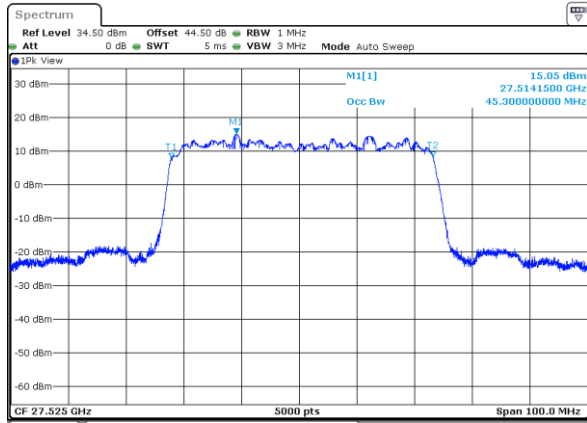
Date: 9,AUG,2020 14:54:14



DFT-s-OFDM Module 1

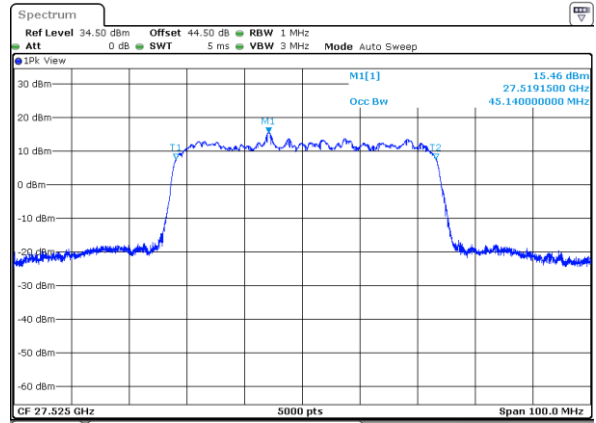
NR Band n261

Lowest Channel / 50MHz / BPSK



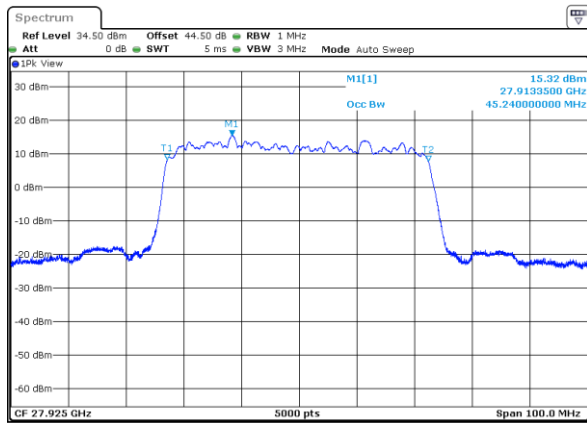
Date: 30.JUL.2020 15:35:37

Lowest Channel / 50MHz / QPSK



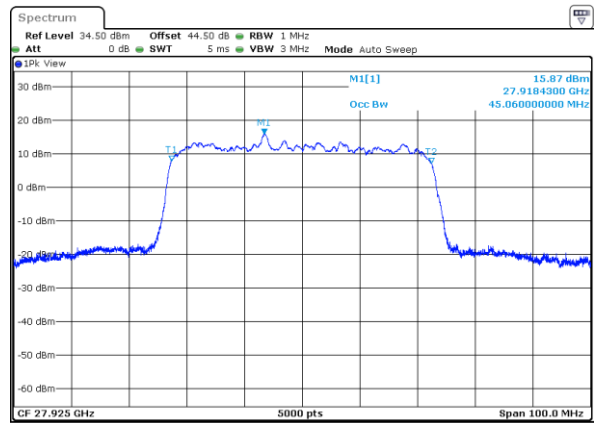
Date: 30.JUL.2020 15:34:36

Middle Channel / 50MHz / BPSK



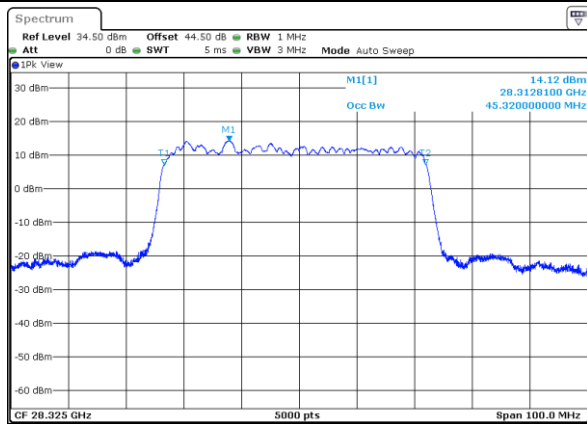
Date: 30.JUL.2020 17:27:02

Middle Channel / 50MHz / QPSK



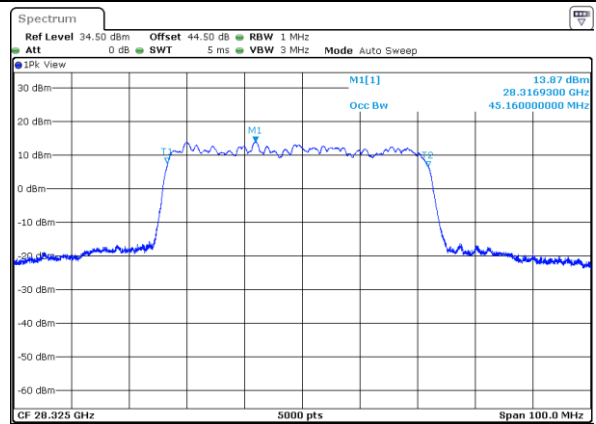
Date: 30.JUL.2020 17:16:03

Highest Channel / 50MHz / BPSK



Date: 30.JUL.2020 19:59:58

Highest Channel / 50MHz / QPSK



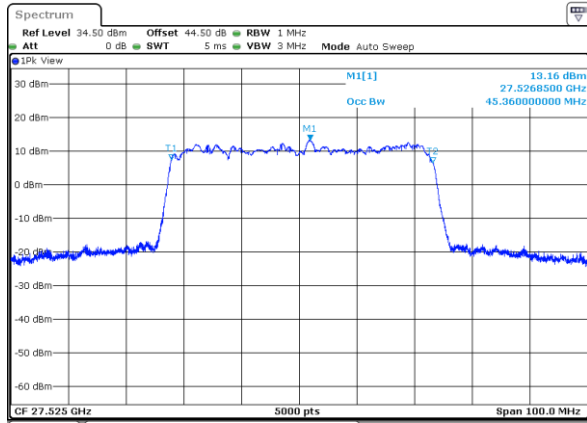
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DFT-s-OFDM Module 1

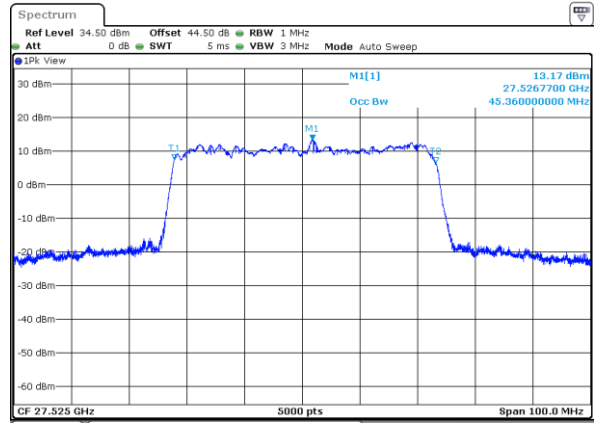
NR Band n261

Lowest Channel / 50MHz / 16QAM



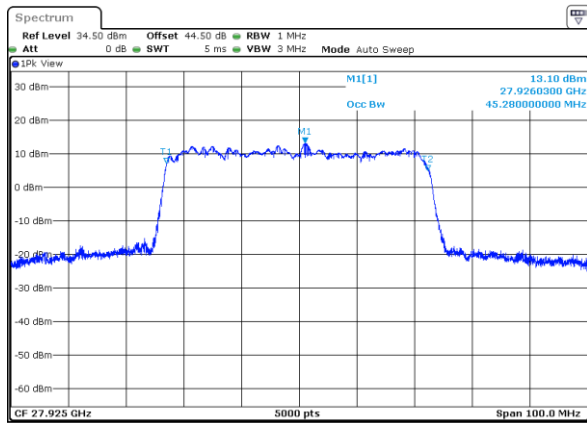
Date: 30.JUL.2020 15:33:12

Lowest Channel / 50MHz / 64QAM



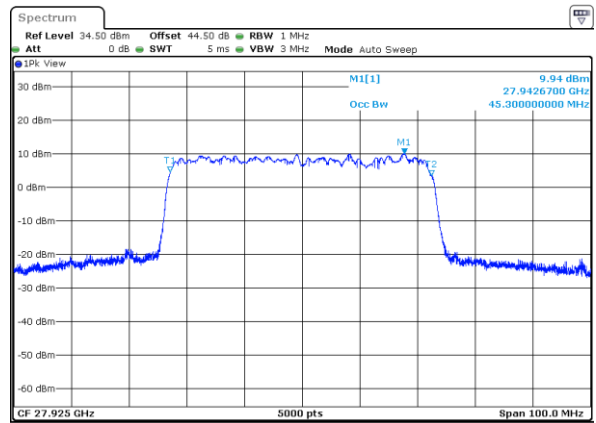
Date: 30.JUL.2020 15:32:24

Middle Channel / 50MHz / 16QAM



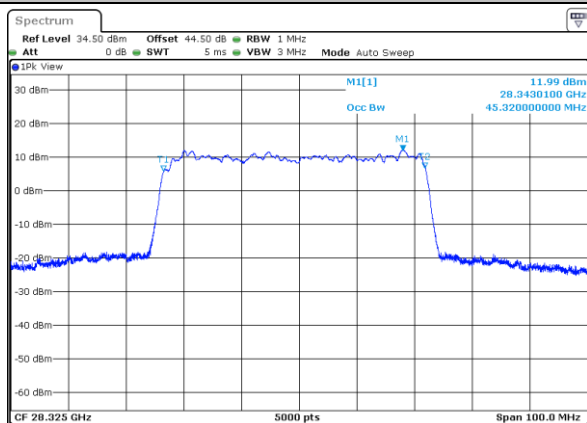
Date: 30.JUL.2020 17:12:32

Middle Channel / 50MHz / 64QAM



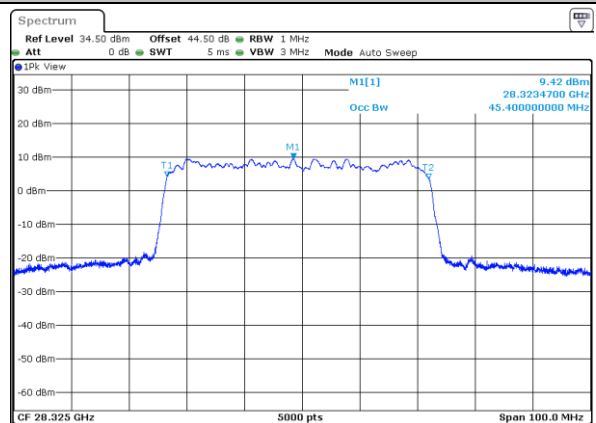
Date: 30.JUL.2020 17:11:41

Highest Channel / 50MHz / 16QAM



Date: 30.JUL.2020 19:54:56

Highest Channel / 50MHz / 64QAM



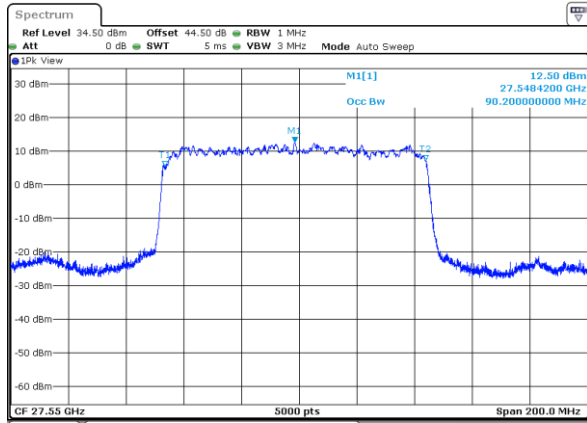
Date: 30.JUL.2020 19:50:37



DFT-s-OFDM Module 1

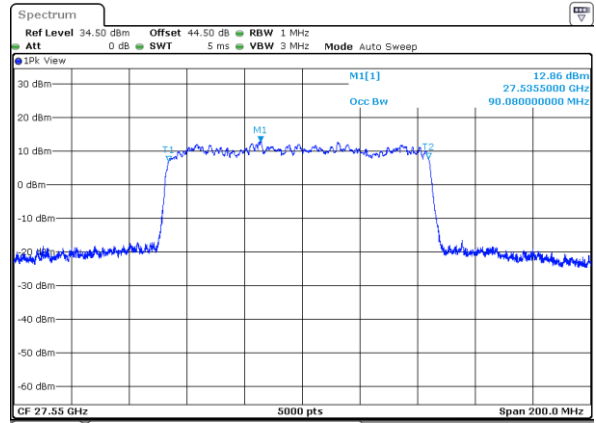
NR Band n261

Lowest Channel / 100MHz / BPSK



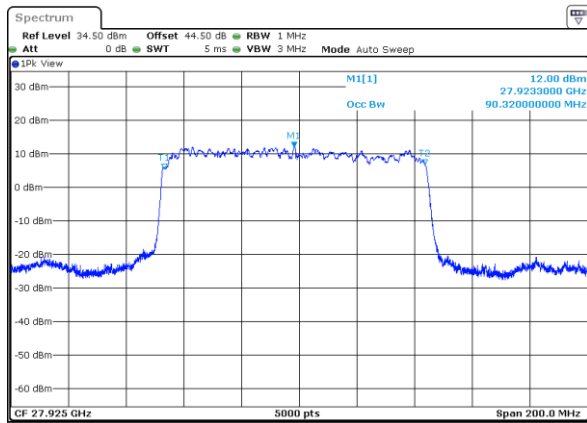
Date: 29.JUL.2020 20:01:17

Lowest Channel / 100MHz / QPSK



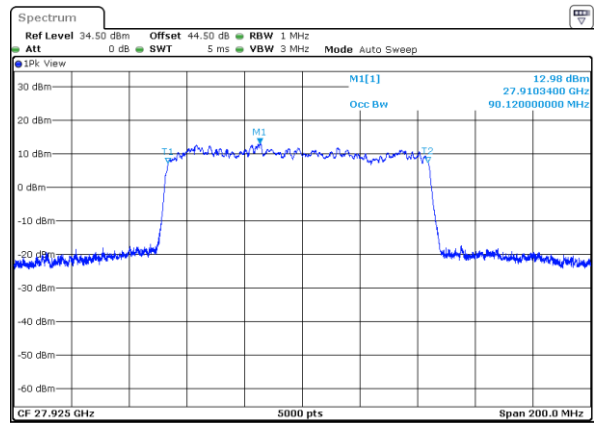
Date: 29.JUL.2020 19:59:21

Middle Channel / 100MHz / BPSK



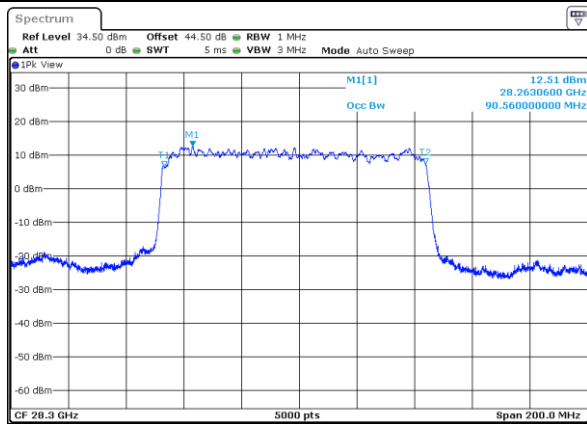
Date: 29.JUL.2020 21:04:02

Middle Channel / 100MHz / QPSK



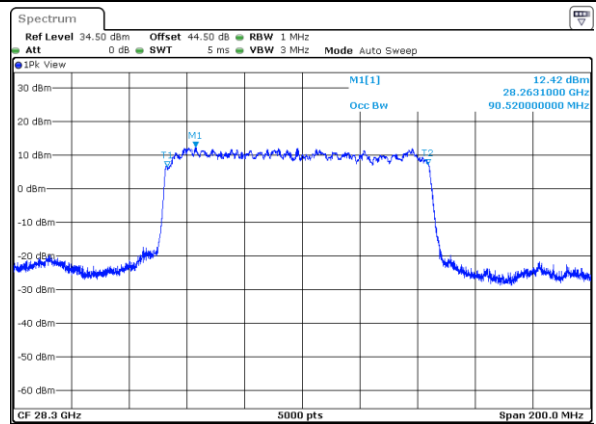
Date: 29.JUL.2020 21:52:53

Highest Channel / 100MHz / BPSK



Date: 29.JUL.2020 20:59:06

Highest Channel / 100MHz / QPSK



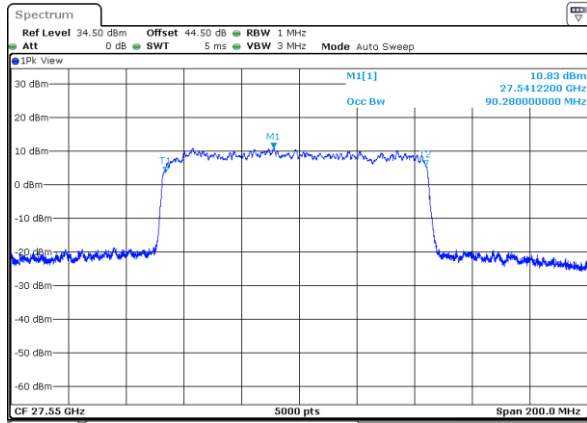
Date: 29.JUL.2020 20:55:10



DFT-s-OFDM Module 1

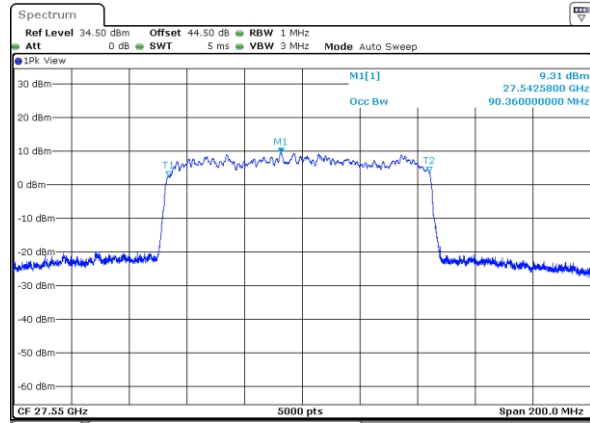
NR Band n261

Lowest Channel / 100MHz / 16QAM



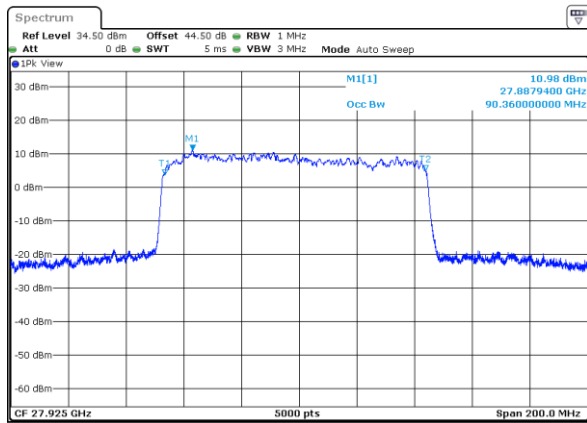
Date: 29.JUL.2020 19:57:34

Lowest Channel / 100MHz / 64QAM



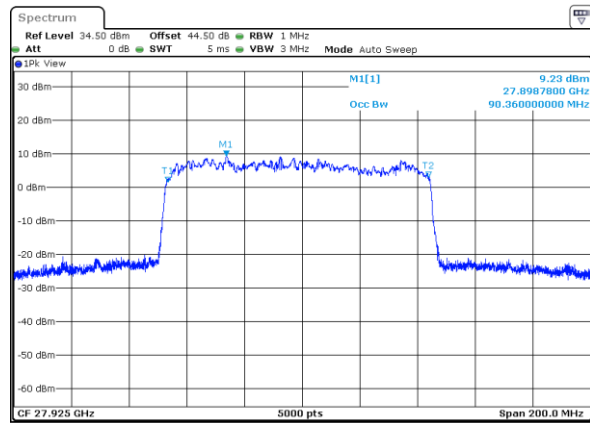
Date: 29.JUL.2020 19:55:44

Middle Channel / 100MHz / 16QAM



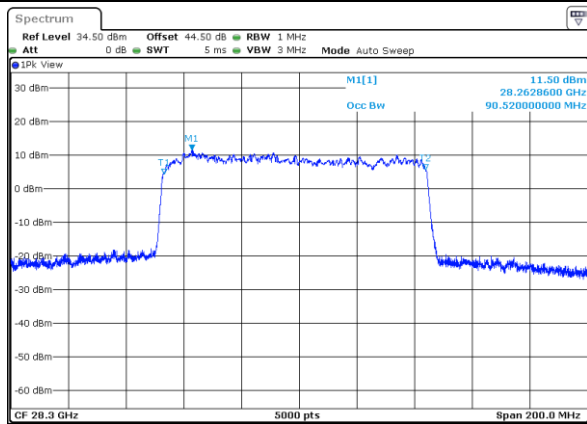
Date: 29.JUL.2020 21:51:47

Middle Channel / 100MHz / 64QAM



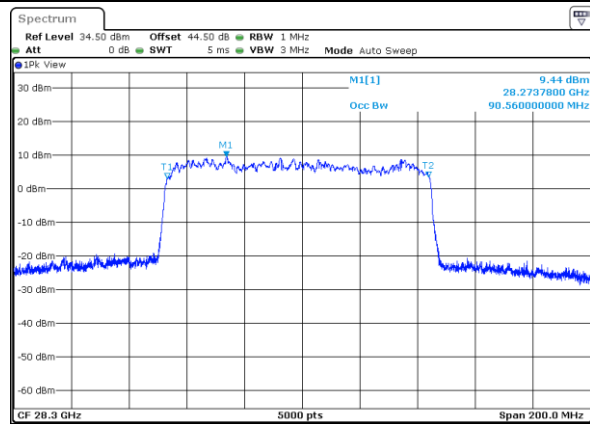
Date: 29.JUL.2020 21:50:23

Highest Channel / 100MHz / 16QAM



Date: 29.JUL.2020 20:51:55

Highest Channel / 100MHz / 64QAM



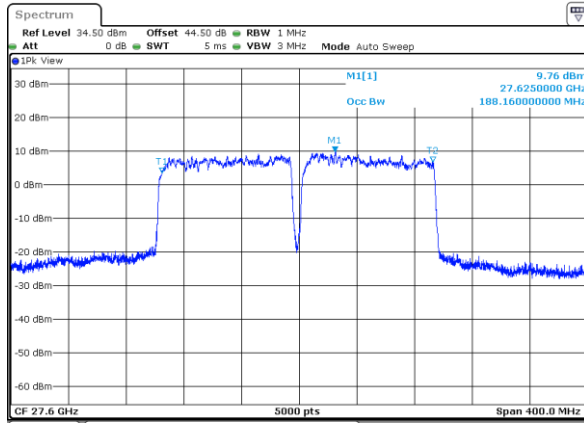
Date: 29.JUL.2020 20:47:36



DFT-s-OFDM Module 1

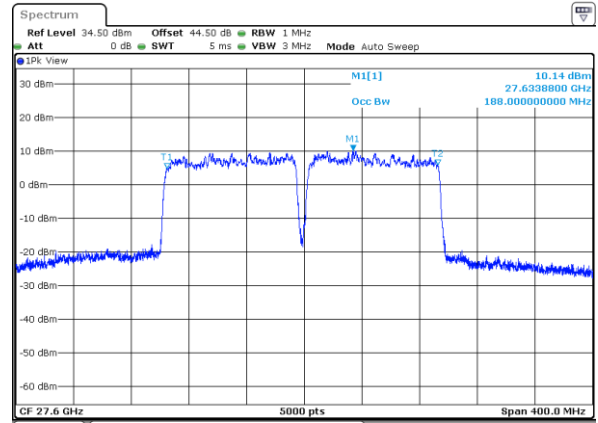
NR Band n261

Lowest Channel / 200MHz / BPSK



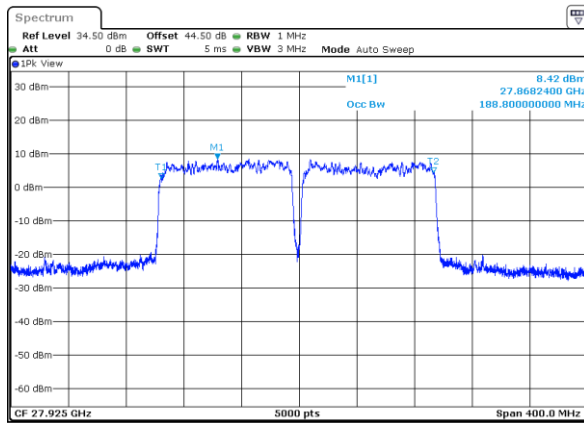
Date: 5.AUG.2020 20:04:45

Lowest Channel / 200MHz / QPSK



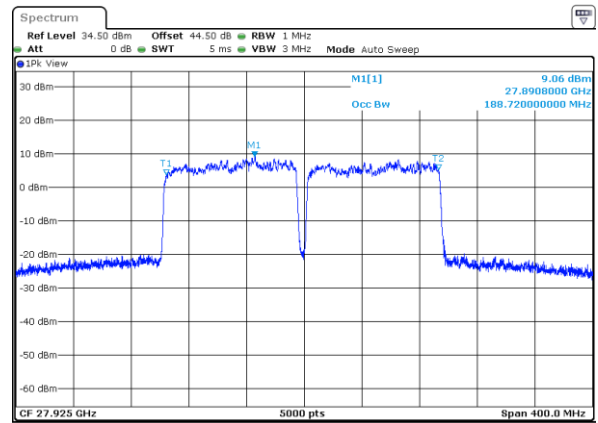
Date: 5.AUG.2020 20:00:36

Middle Channel / 200MHz / BPSK



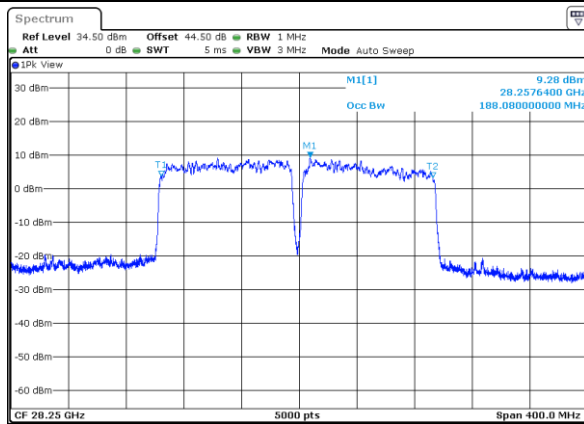
Date: 10.AUG.2020 22:05:05

Middle Channel / 200MHz / QPSK



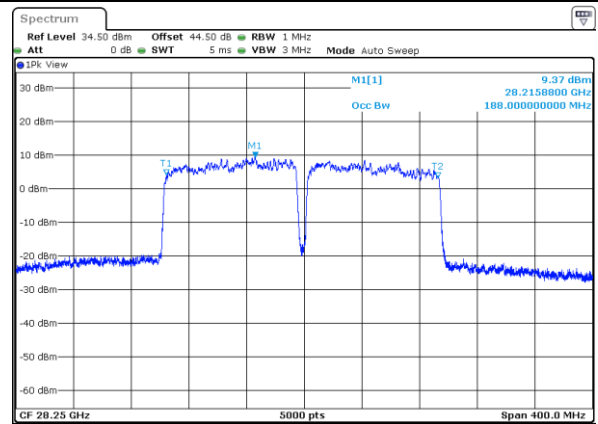
Date: 10.AUG.2020 22:06:38

Highest Channel / 200MHz / BPSK



Date: 10.AUG.2020 23:29:07

Highest Channel / 200MHz / QPSK



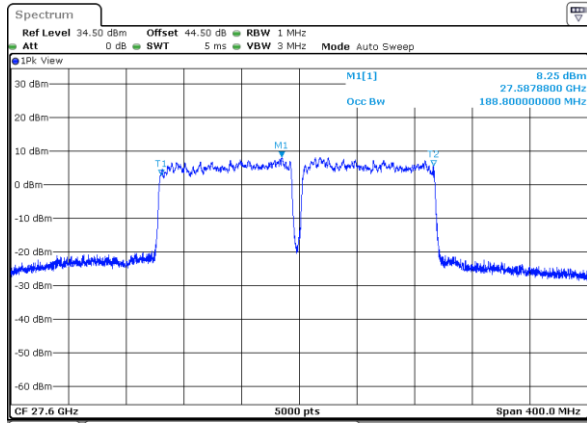
Date: 10.AUG.2020 23:30:59



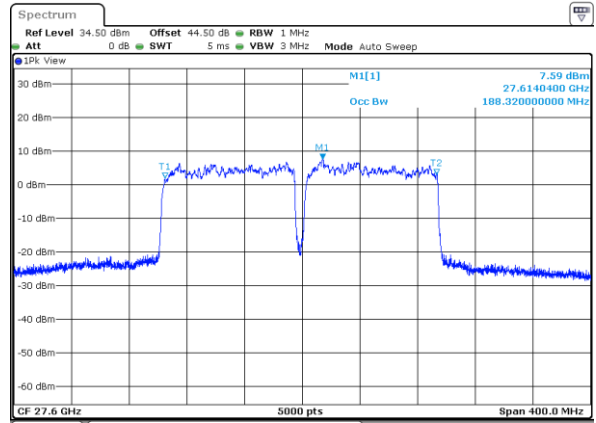
DFT-s-OFDM Module 1

NR Band n261

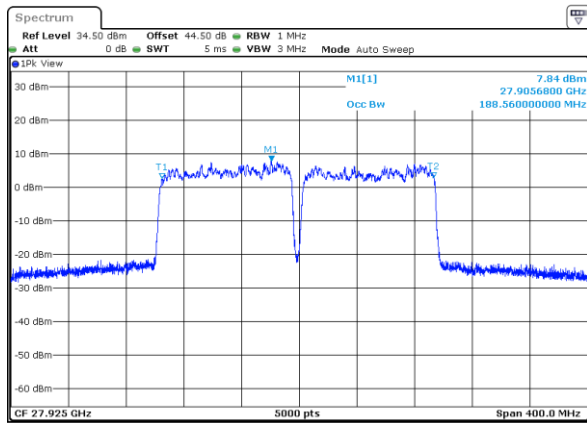
Lowest Channel / 200MHz / 16QAM



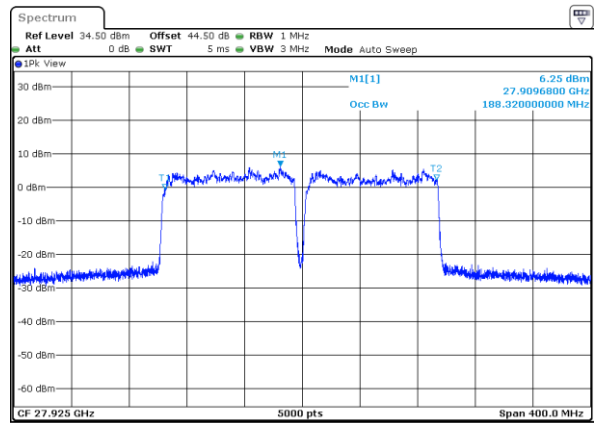
Lowest Channel / 200MHz / 64QAM



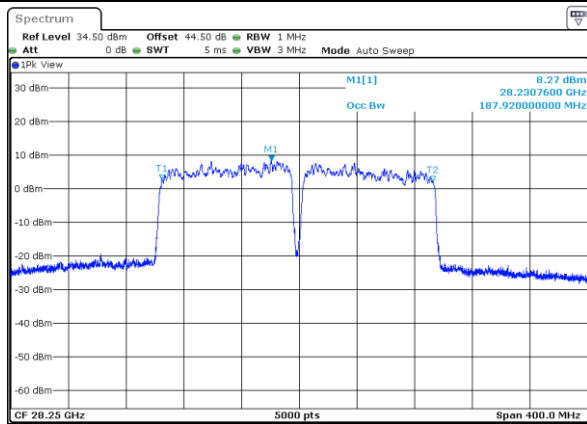
Middle Channel / 200MHz / 16QAM



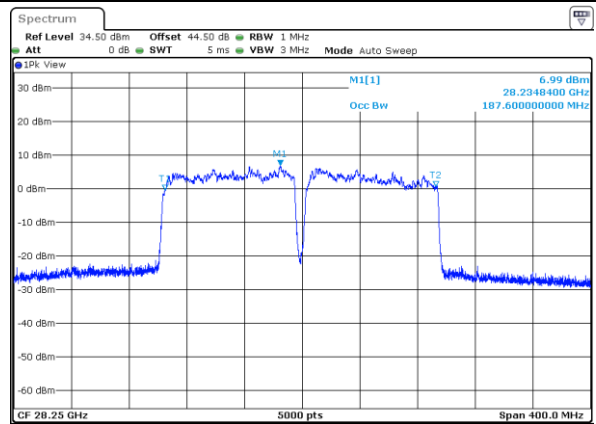
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM

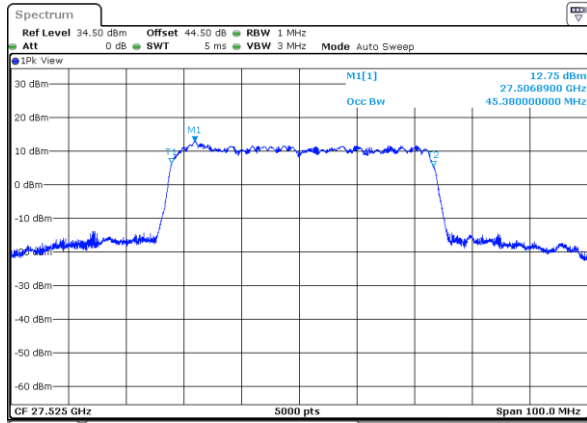




CP-OFDM Module 0

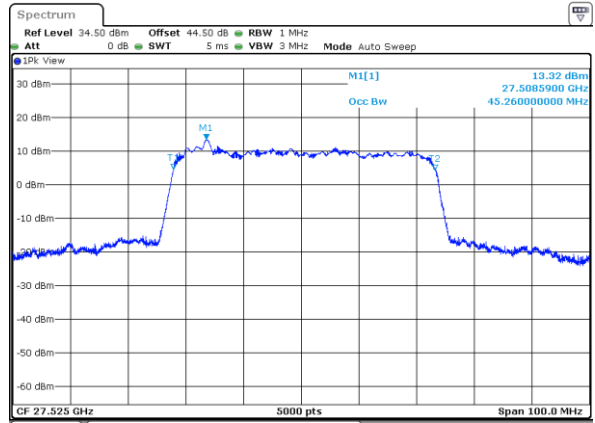
NR Band n261

Lowest Channel / 50MHz / QPSK



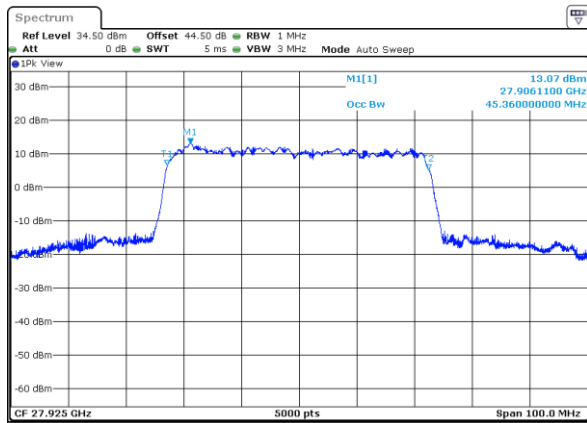
Date: 28.JUL.2020 20:45:38

Lowest Channel / 50MHz / 16QAM



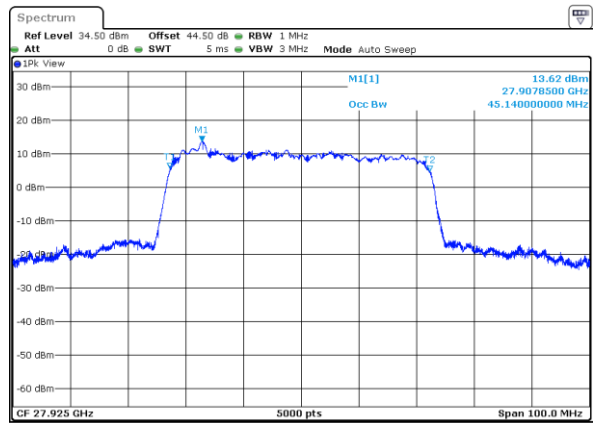
Date: 28.JUL.2020 20:47:14

Middle Channel / 50MHz / QPSK



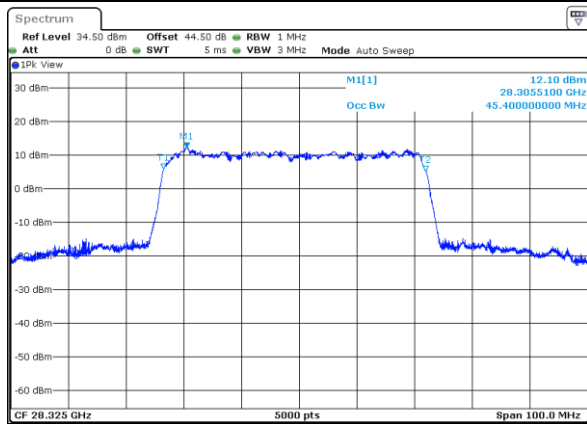
Date: 28.JUL.2020 22:44:26

Middle Channel / 50MHz / 16QAM



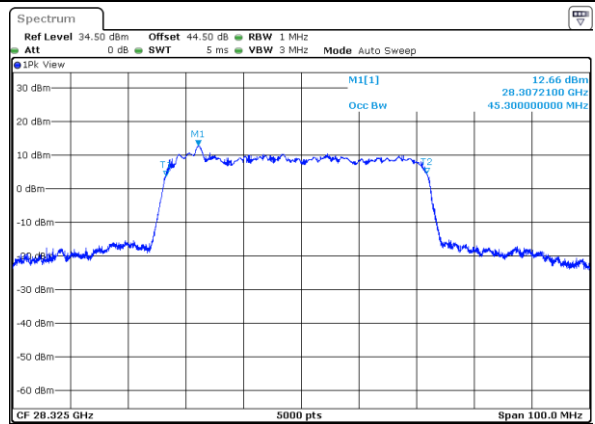
Date: 28.JUL.2020 22:44:59

Highest Channel / 50MHz / QPSK



Date: 28.JUL.2020 21:25:20

Highest Channel / 50MHz / 16QAM



Date: 28.JUL.2020 21:27:33