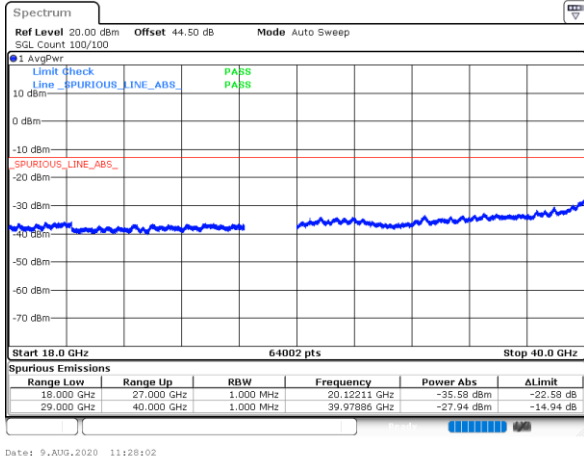




DFT-s-OFDM Module 0

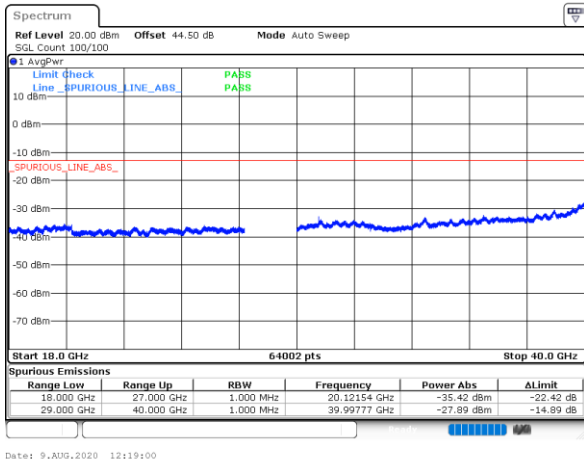
NR Band n261 BPSK (18-40GHz)

Lowest Channel / 200MHz



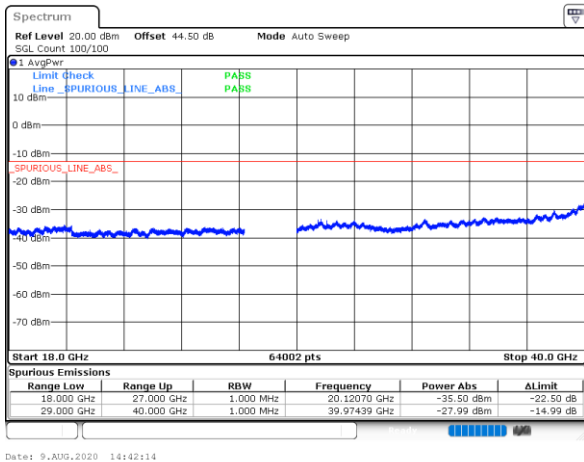
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Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



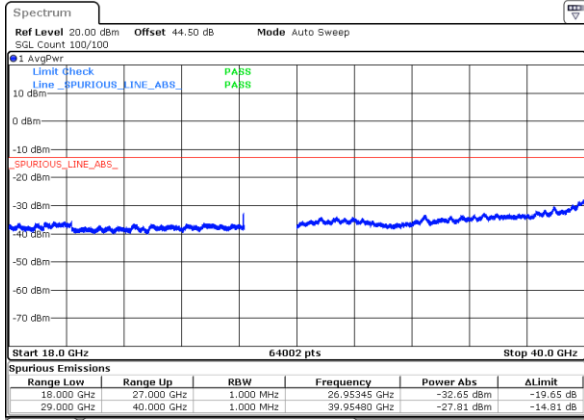
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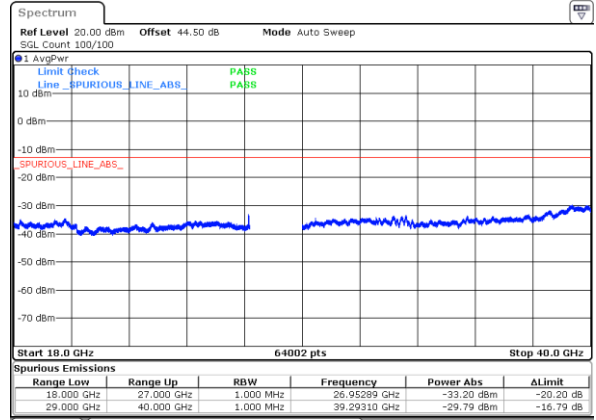
DFT-s-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

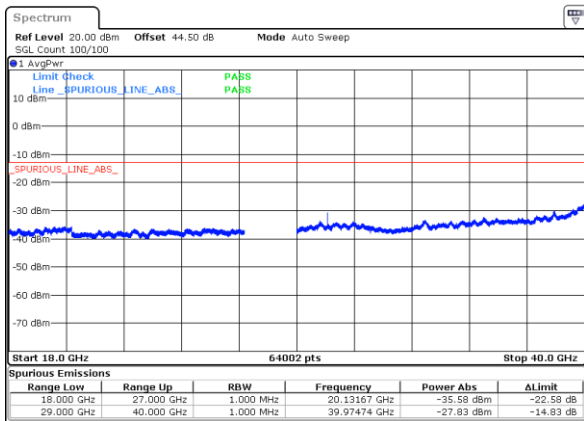
Lowest Channel / 50MHz



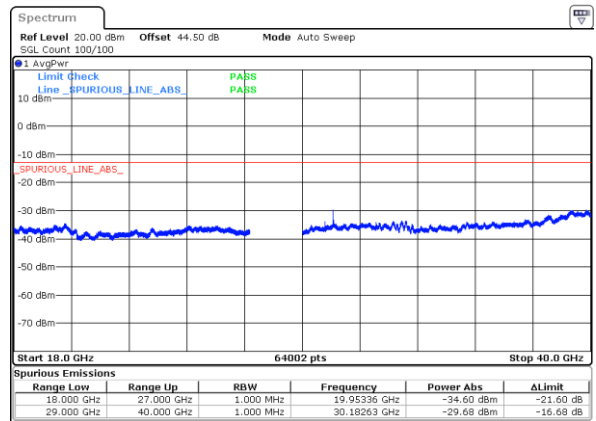
Lowest Channel / 100MHz



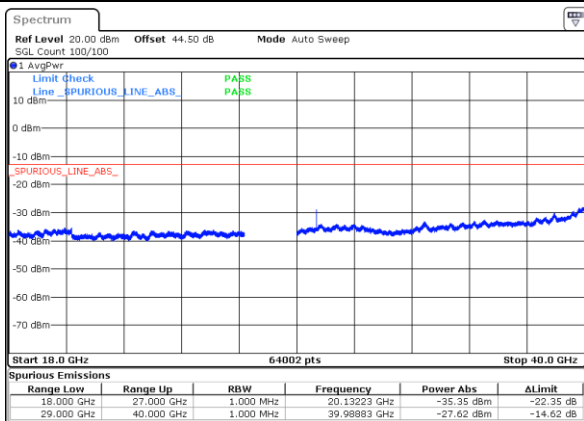
Middle Channel / 50MHz



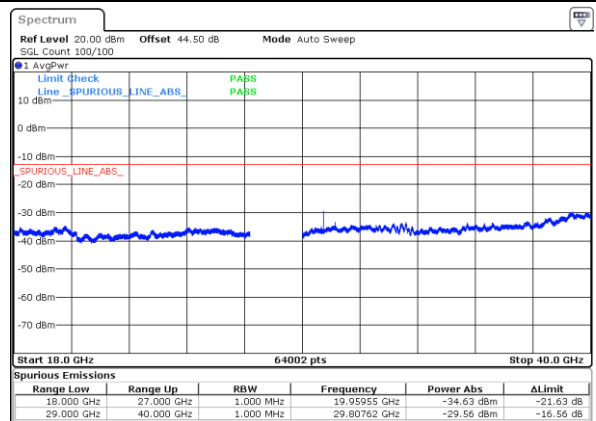
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

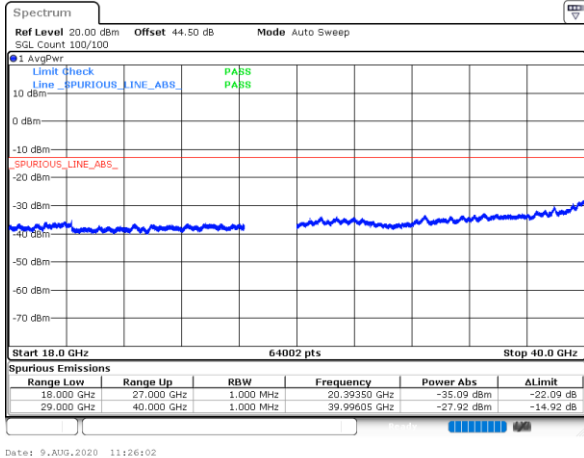




DFT-s-OFDM Module 0

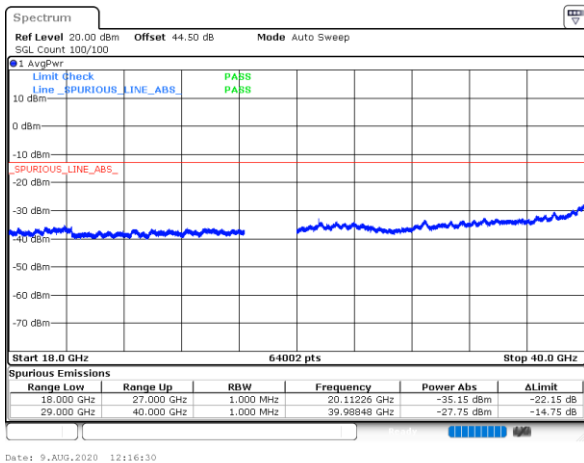
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



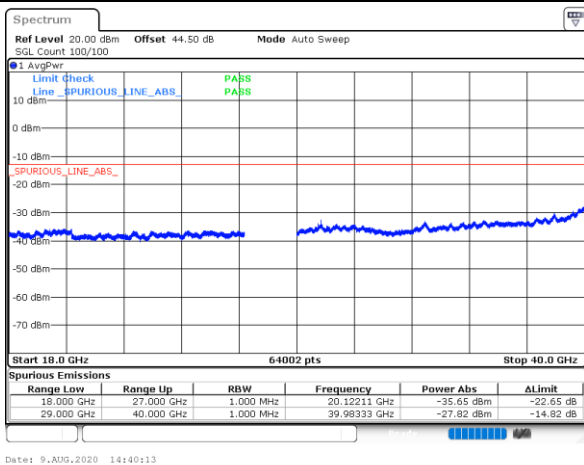
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Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



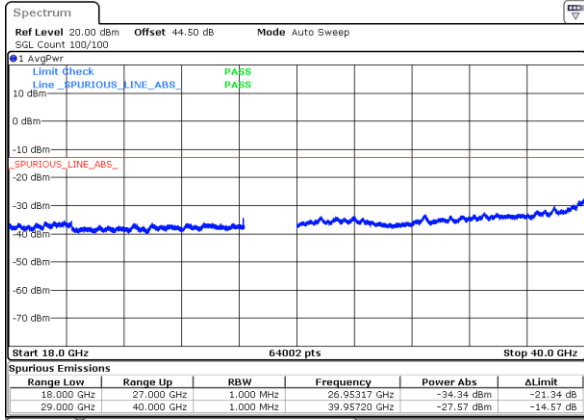
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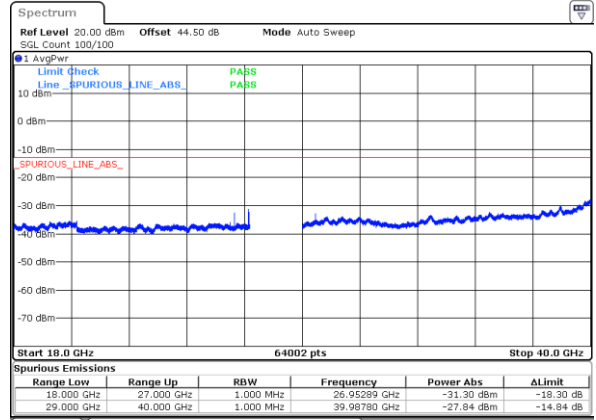
DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)

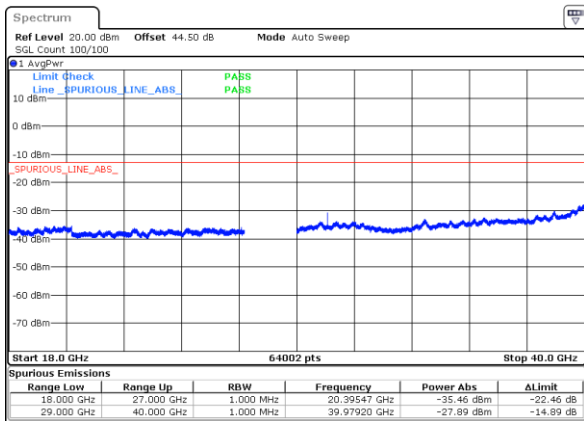
Lowest Channel / 50MHz



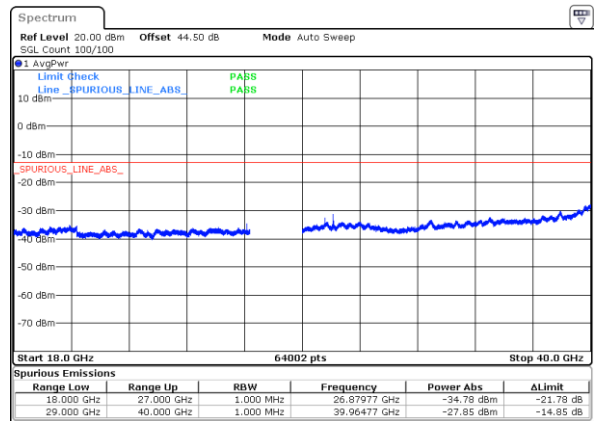
Lowest Channel / 100MHz



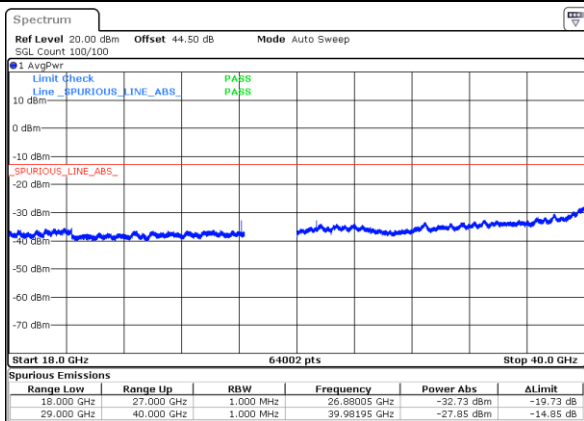
Middle Channel / 50MHz



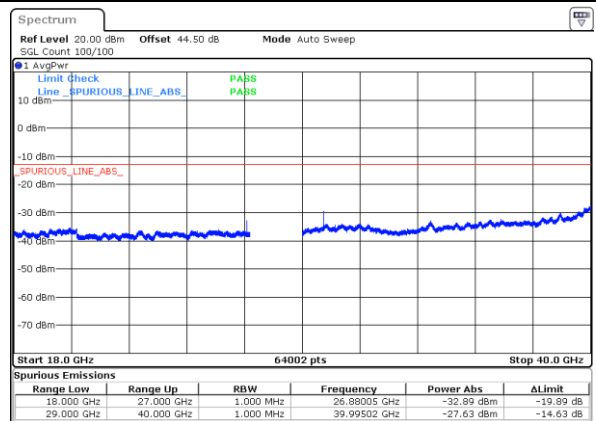
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

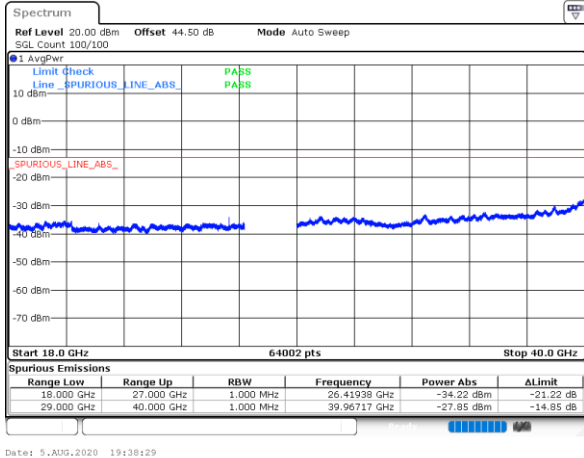




DFT-s-OFDM Module 1

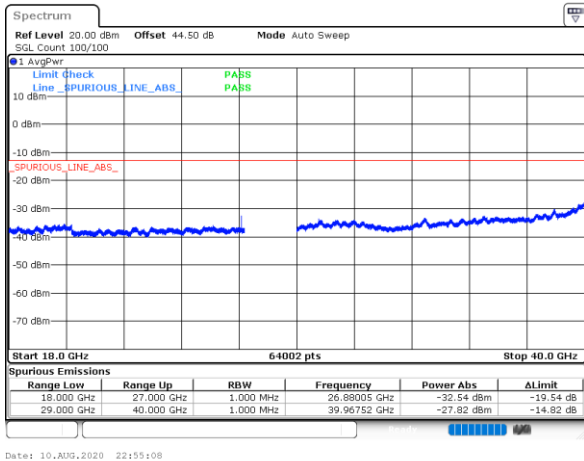
NR Band n261 BPSK (18-40GHz)

Lowest Channel / 200MHz



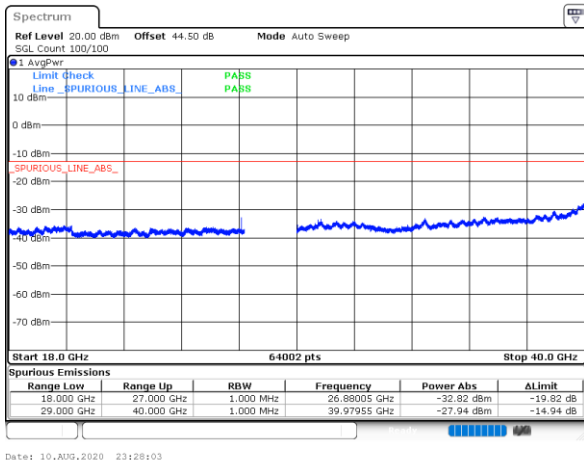
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Middle Channel / 200MHz



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Highest Channel / 200MHz



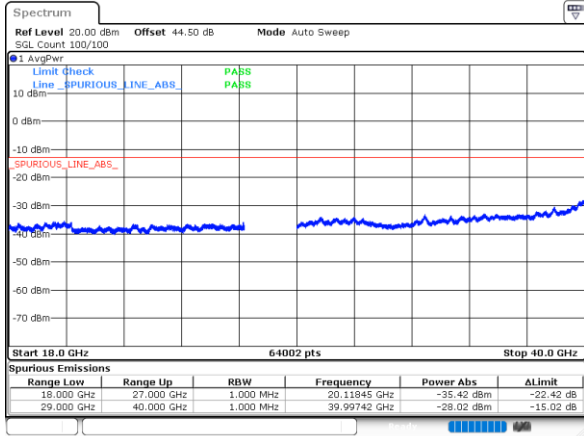
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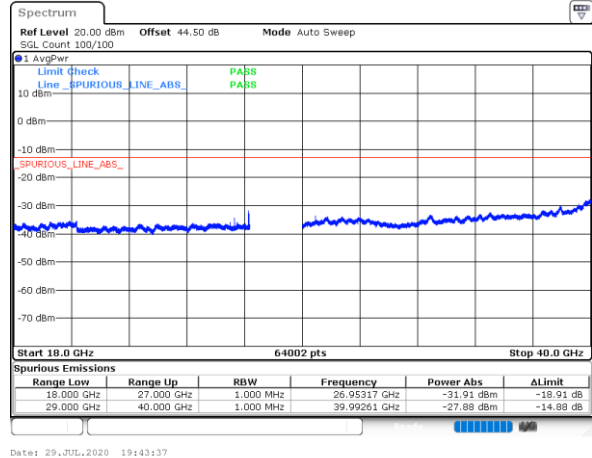
DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

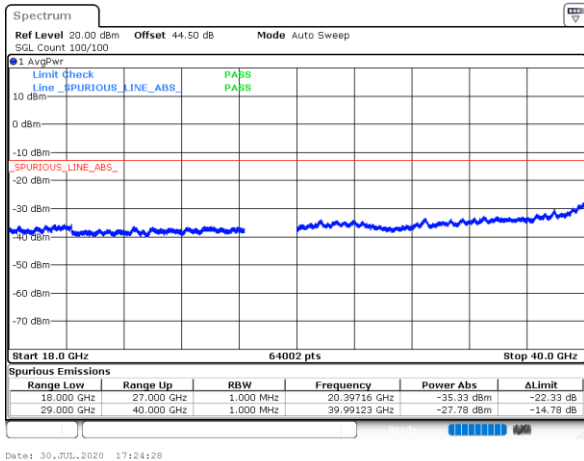
Lowest Channel / 50MHz



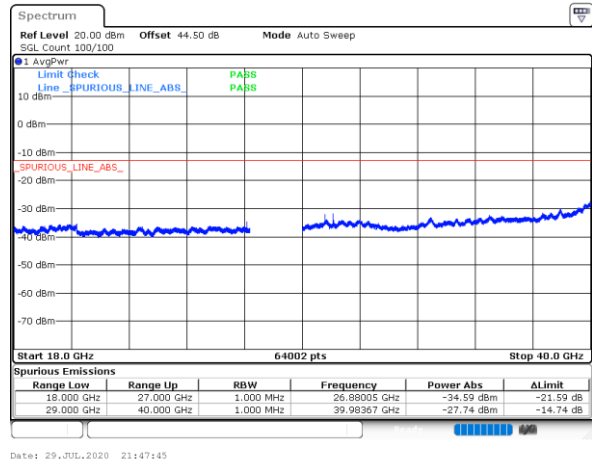
Lowest Channel / 100MHz



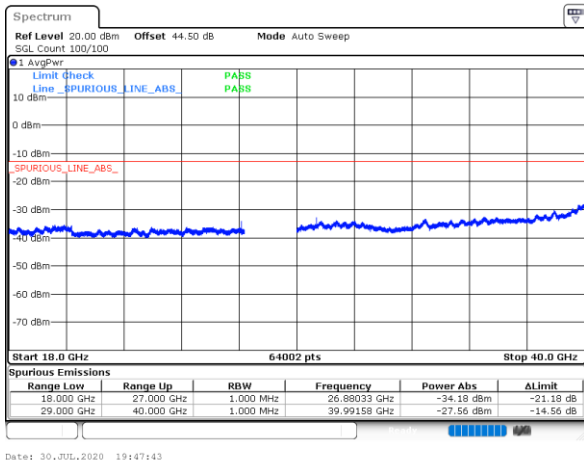
Middle Channel / 50MHz



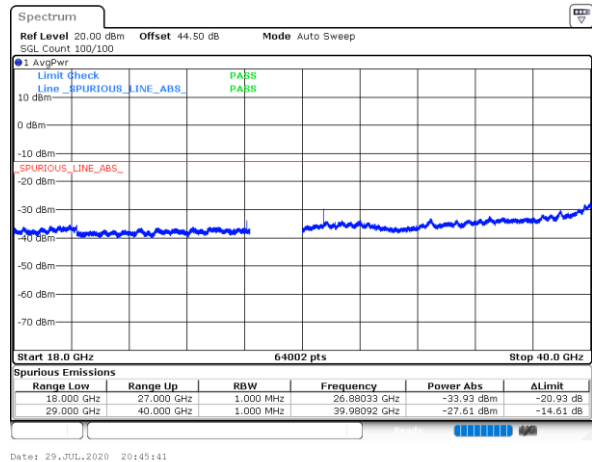
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

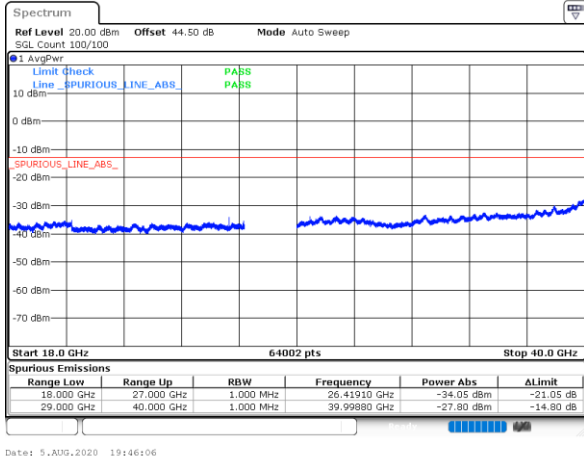




DFT-s-OFDM Module 1

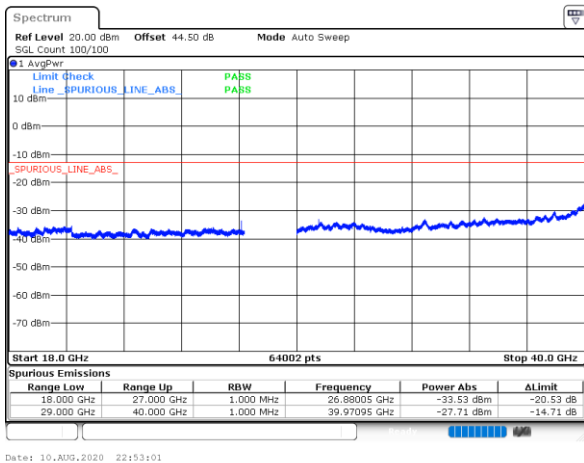
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



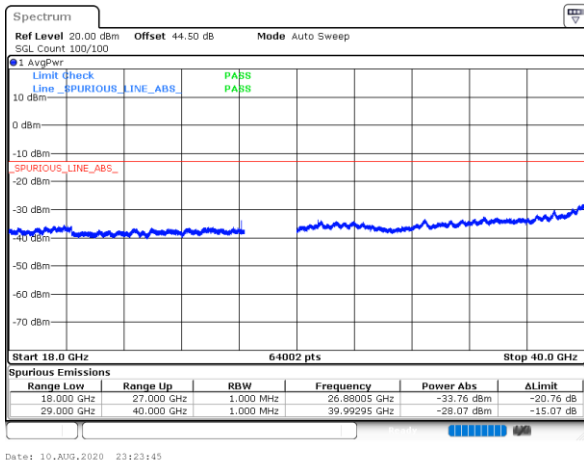
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Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



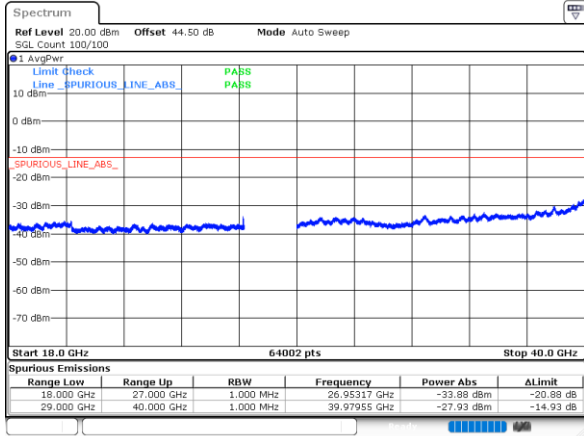
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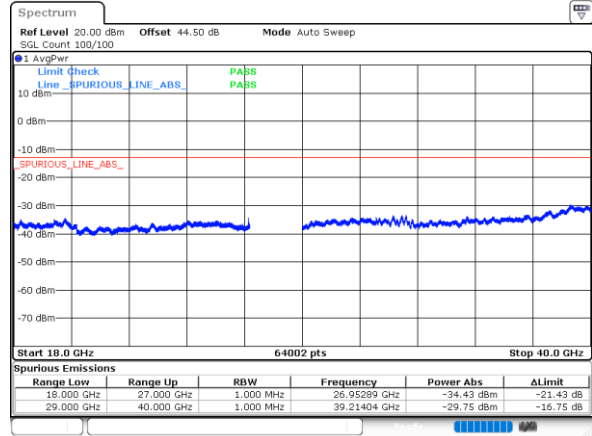
CP-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

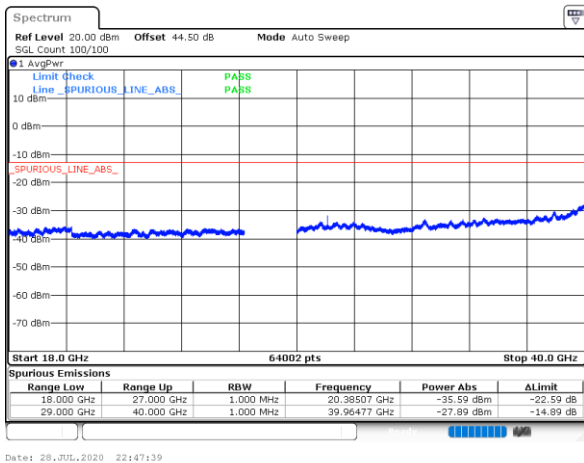
Lowest Channel / 50MHz



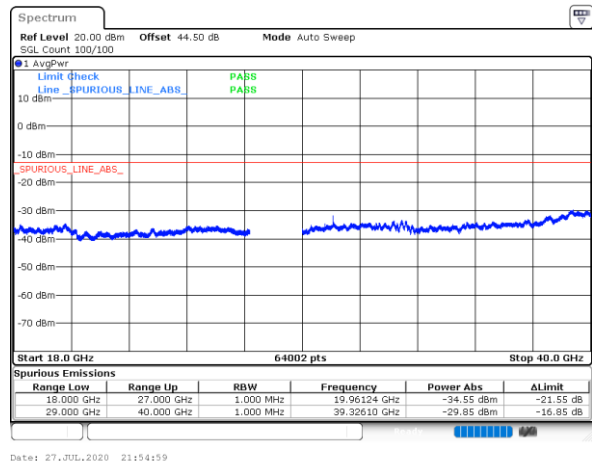
Lowest Channel / 100MHz



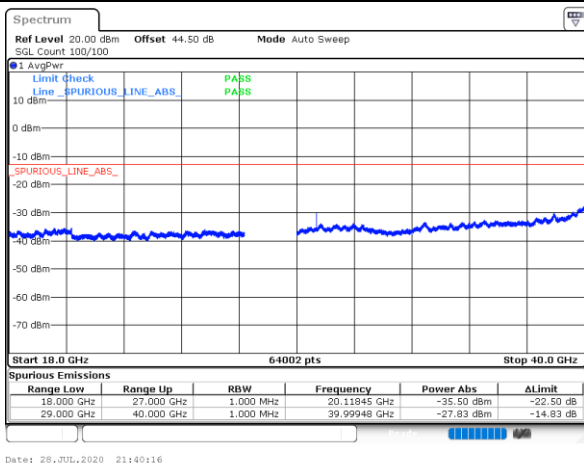
Middle Channel / 50MHz



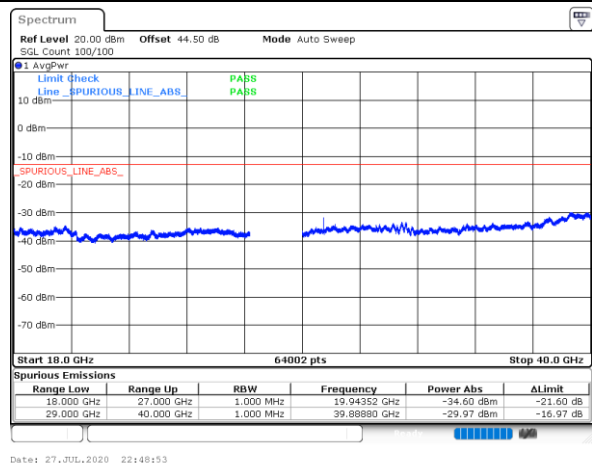
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

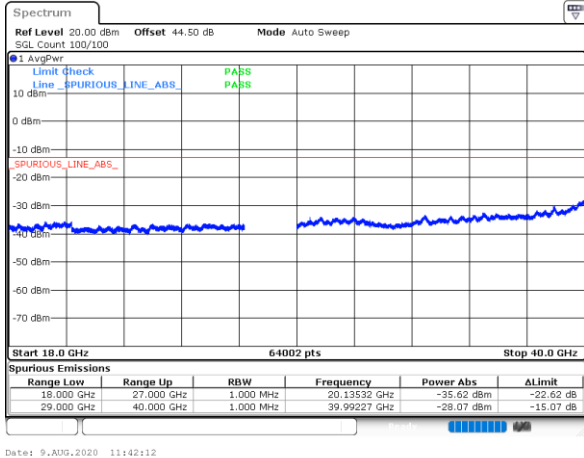




CP-OFDM Module 0

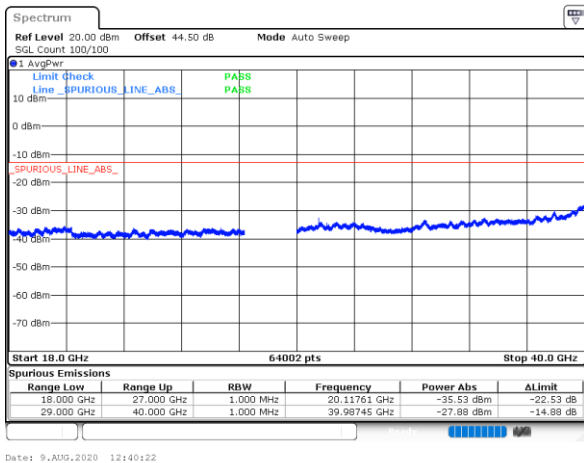
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



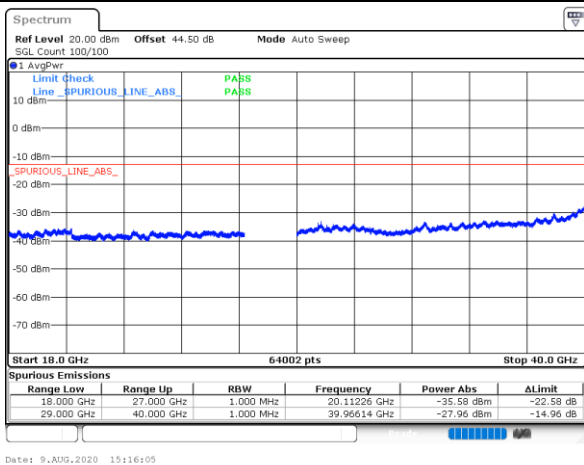
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



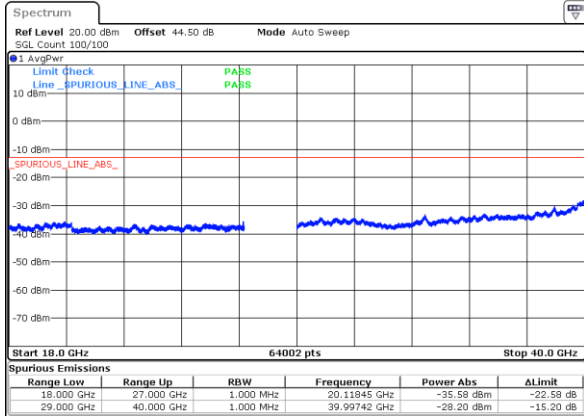
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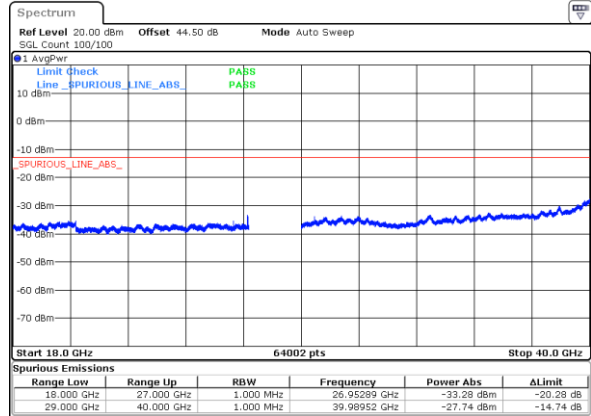
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

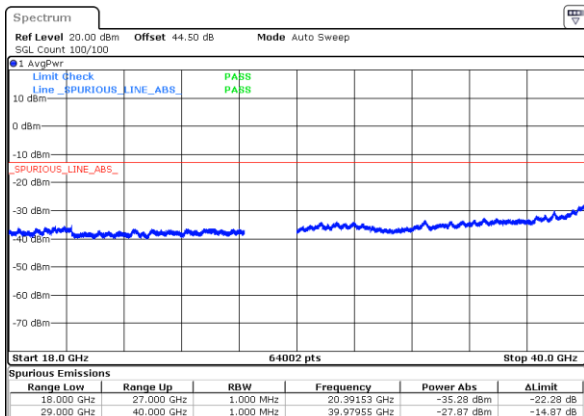
Lowest Channel / 50MHz



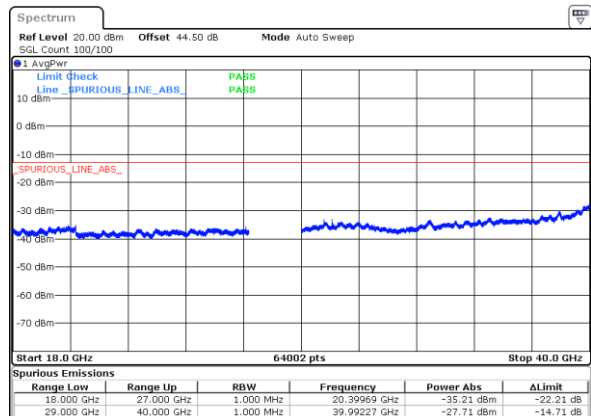
Lowest Channel / 100MHz



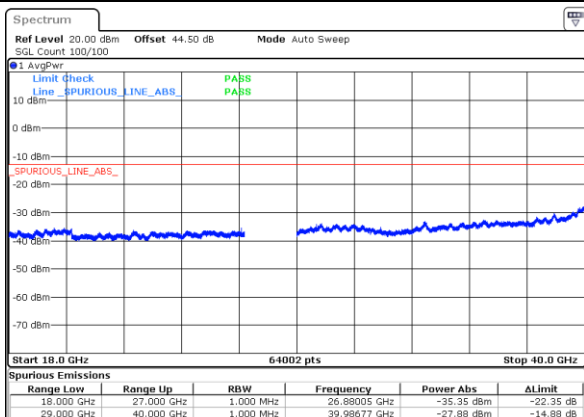
Middle Channel / 50MHz



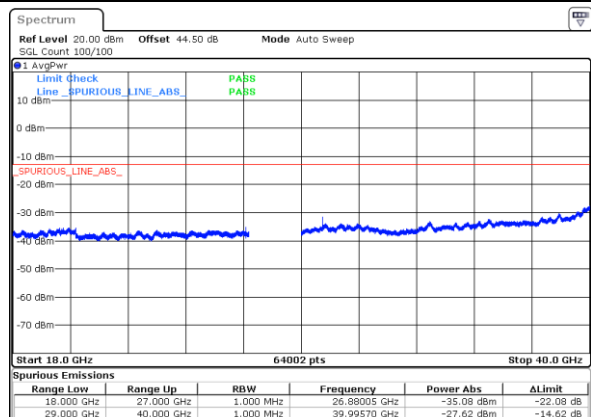
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

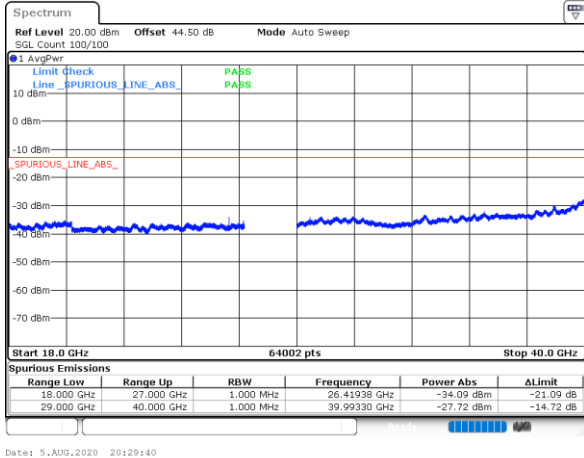




CP-OFDM Module 1

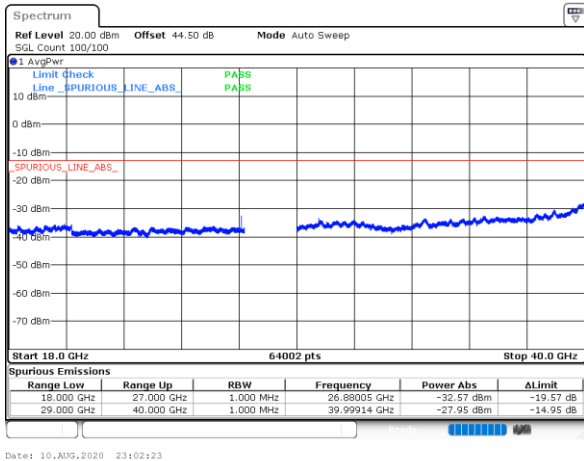
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



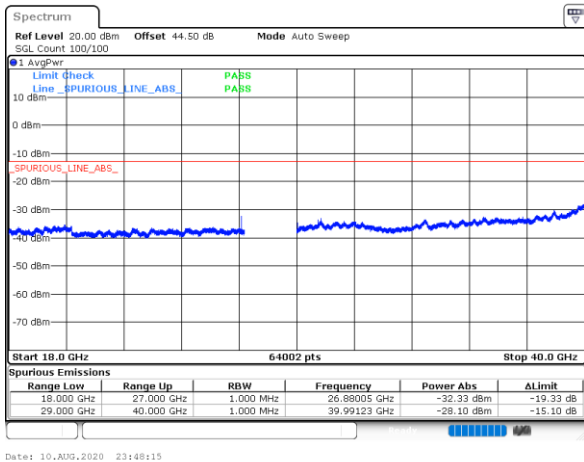
intentionally blank

Middle Channel / 200MHz



intentionally blank

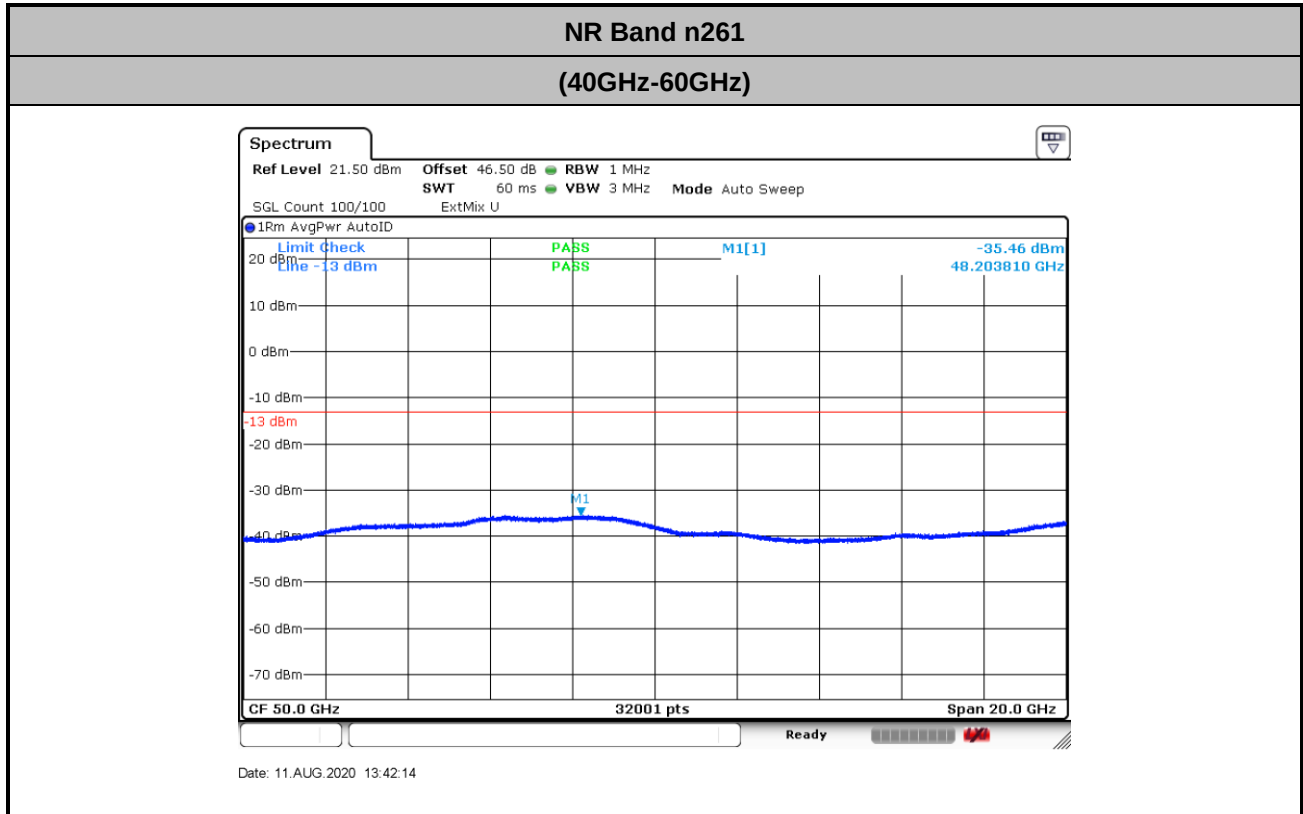
Highest Channel / 200MHz



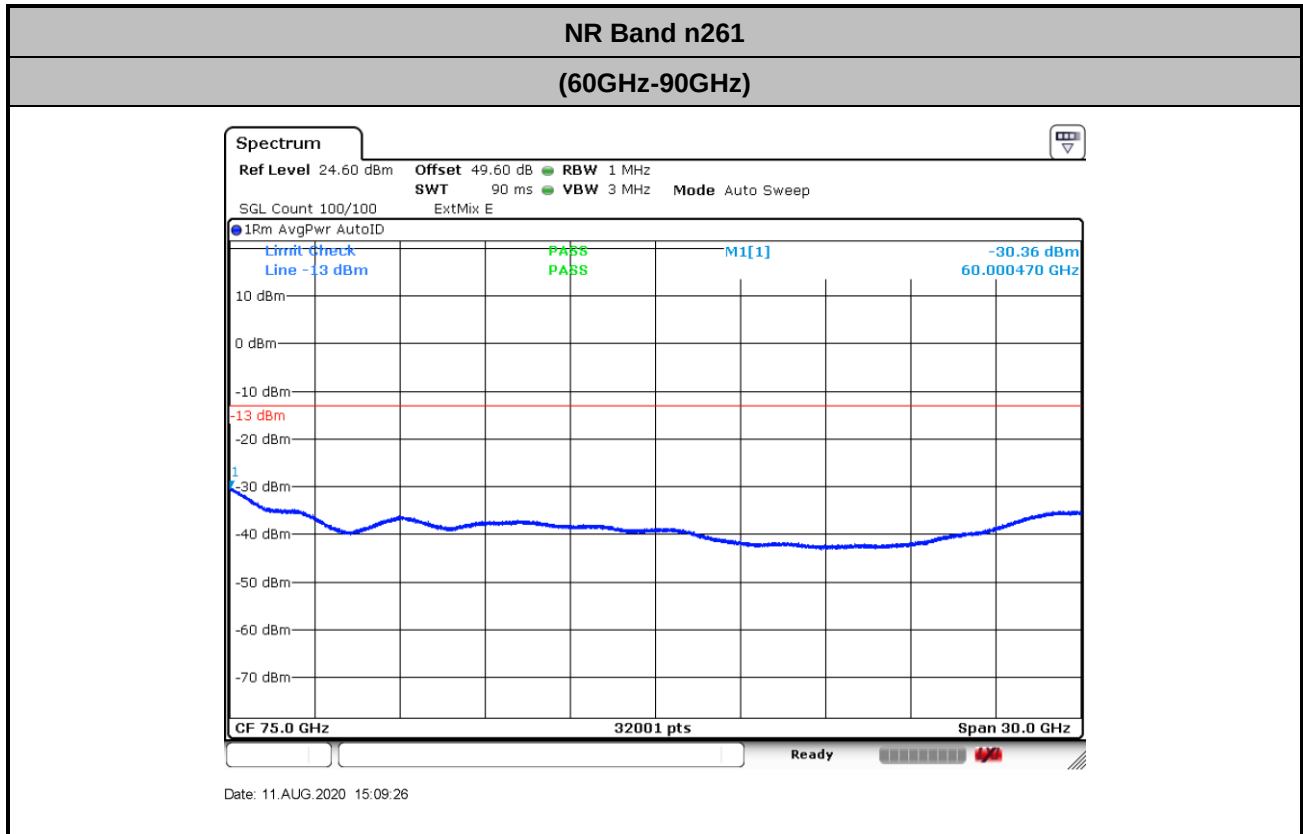
intentionally blank



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



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



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



(90GHz-100GHz)



Page Number : A8-86 of 88

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	27.9247373	266.700	9.551	Pass
40	Normal Voltage	27.9247822	221.800	7.943	
30	Normal Voltage	27.9248611	142.900	5.117	
20(Ref.)	Normal Voltage	27.925004	0.000	0.000	
10	Normal Voltage	27.925039	-35.000	1.253	
0	Normal Voltage	27.9250539	-49.900	1.787	
-10	Normal Voltage	27.9250889	-84.900	3.040	
-20	Normal Voltage	27.9251798	-175.800	6.295	
-30	Normal Voltage	27.9252607	-256.700	9.192	
20	Maximum Voltage	27.925027	-23.000	0.824	
20	Normal Voltage	27.925018	-14.000	0.501	
20	Battery End Point	27.924986	18.000	0.645	

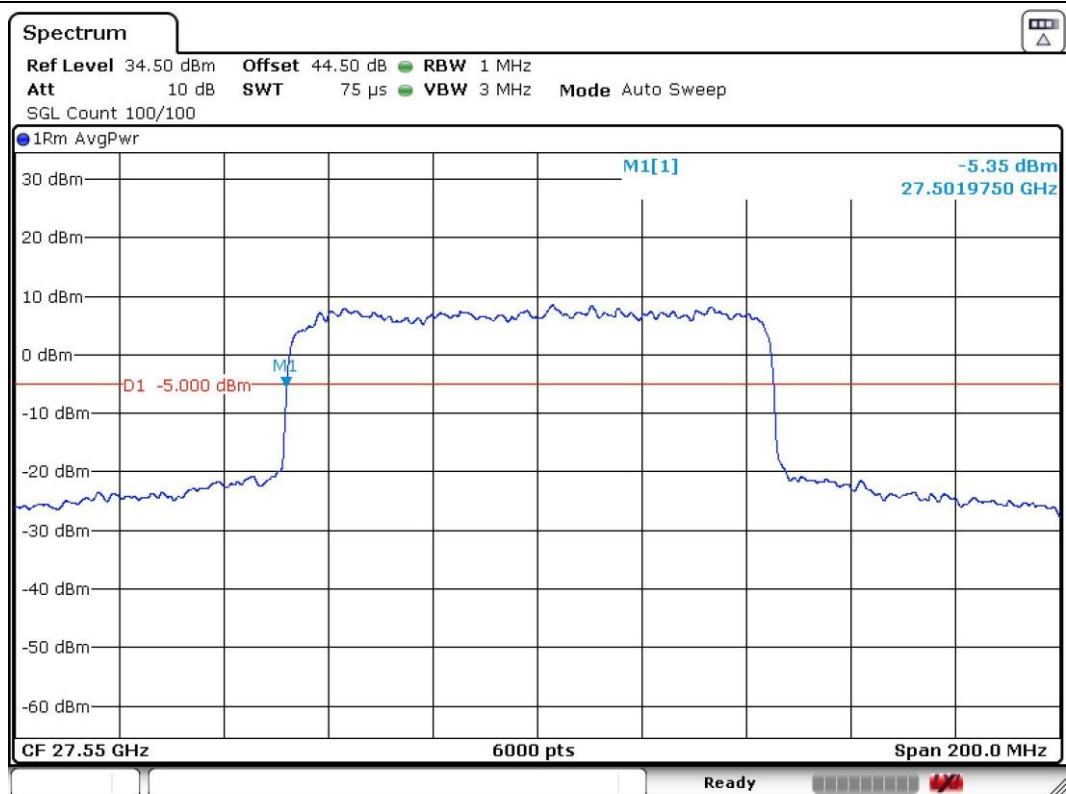
Note:

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 27,500,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	27,502,092,000	2,092,000	266.700	Compliance
100MHz	27,501,975,000	1,975,000	266.700	Compliance
200MHz	27,505,142,000	5,142,000	266.700	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	28,347,675,000	2,325,000	266.700	Compliance
100MHz	28,344,817,000	5,183,000	266.700	Compliance
200MHz	28,343,833,000	6,167,000	266.700	Compliance

Worst case 50MHz QPSK Low channel edge plot

Date: 12.AUG.2020 02:54:09



NR Band n261 AG1

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	45.44	45.50	45.30	45.34	90.36	90.36	90.44	90.44	188.32	188.32	188.16	188.00
Middle CH	45.28	45.28	45.04	45.34	90.32	90.28	90.40	90.36	188.56	188.56	188.32	188.24
Highest CH	45.34	45.34	45.10	45.40	90.32	90.24	90.36	90.40	188.00	187.76	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	45.32	45.20	45.18	45.22	90.44	90.36	90.48	90.40	188.40	188.40	188.24	188.16
Middle CH	45.20	45.14	45.06	45.20	90.36	90.36	90.36	90.44	188.80	188.56	188.48	188.32
Highest CH	45.30	45.16	45.14	45.18	90.36	90.32	90.36	90.44	187.92	188.00	187.84	187.68

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	45.34	45.28	45.26	92.88	93.20	92.88	190.40	189.92	190.16
Middle CH	45.18	45.52	45.10	92.76	93.00	92.80	190.72	190.56	190.56
Highest CH	45.20	45.54	45.20	92.64	93.12	92.80	189.92	189.44	189.92

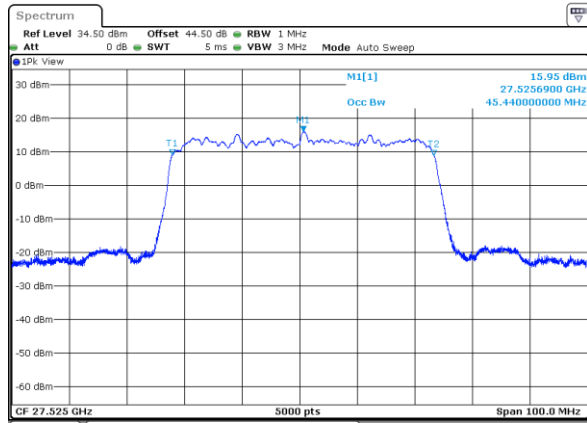
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.46	45.42	45.14	93.00	93.12	93.12	190.48	190.00	190.16
Middle CH	45.32	45.40	45.08	93.00	93.16	93.12	190.80	190.56	190.72
Highest CH	45.24	45.30	45.26	92.80	93.00	93.00	190.16	189.68	189.84



DFT-s-OFDM Module 0

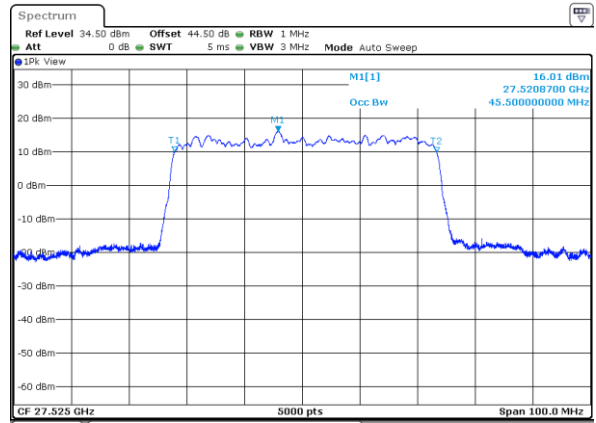
NR Band n261

Lowest Channel / 50MHz / BPSK



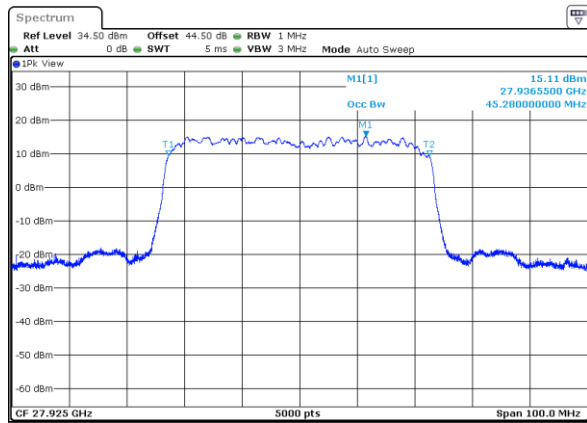
Date: 29.JUL.2020 00:02:24

Lowest Channel / 50MHz / QPSK



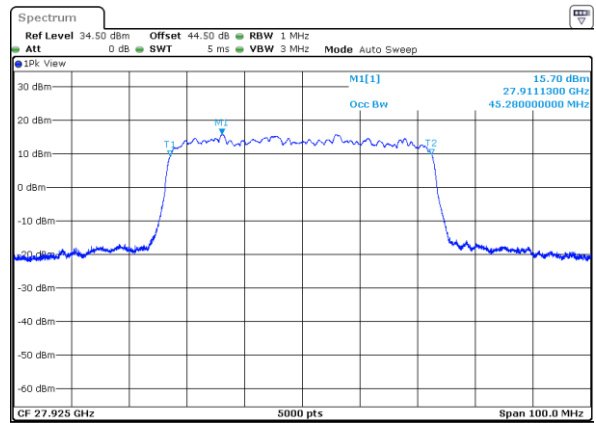
Date: 28.JUL.2020 23:56:30

Middle Channel / 50MHz / BPSK



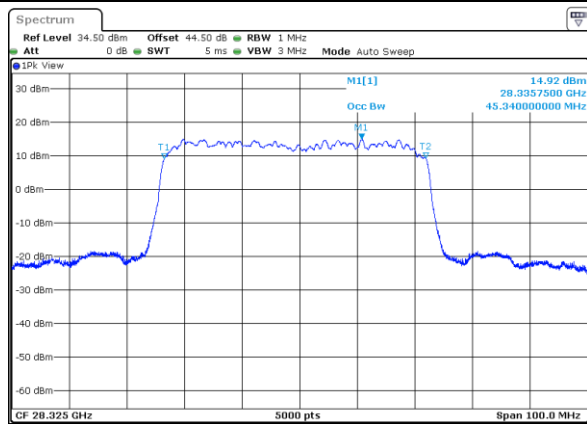
Date: 29.JUL.2020 03:11:37

Middle Channel / 50MHz / QPSK



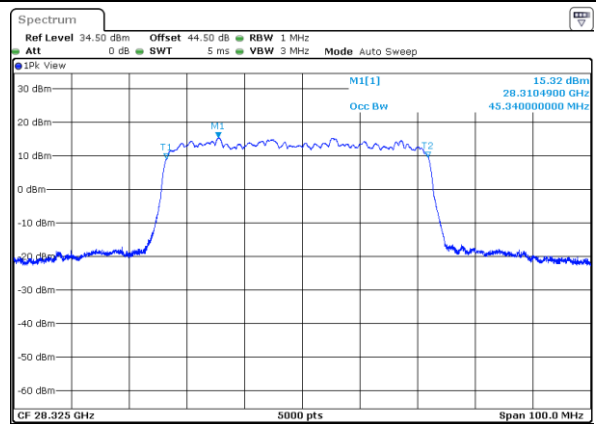
Date: 29.JUL.2020 03:10:12

Highest Channel / 50MHz / BPSK



Date: 29.JUL.2020 04:30:47

Highest Channel / 50MHz / QPSK



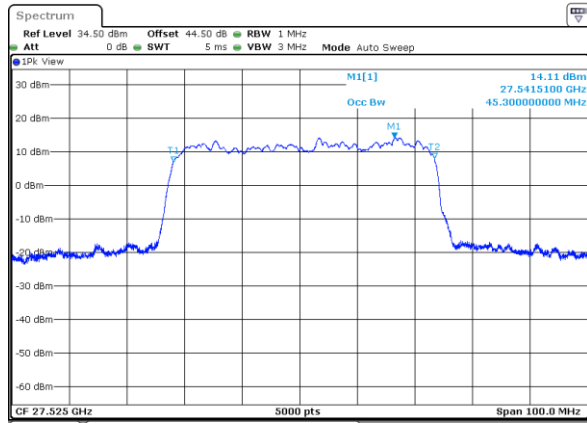
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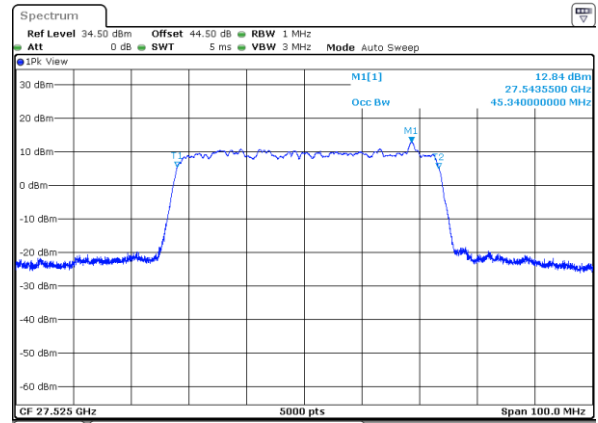
DFT-s-OFDM Module 0

NR Band n261

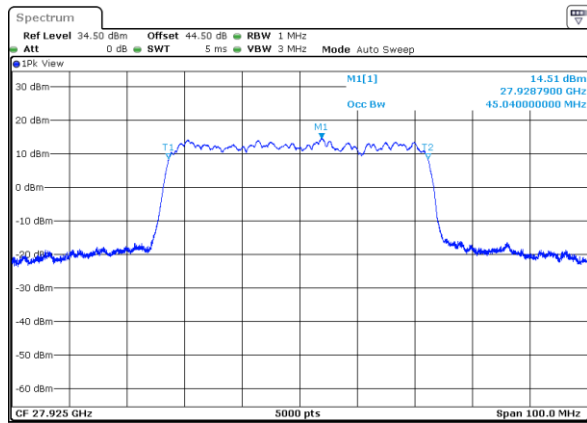
Lowest Channel / 50MHz / 16QAM



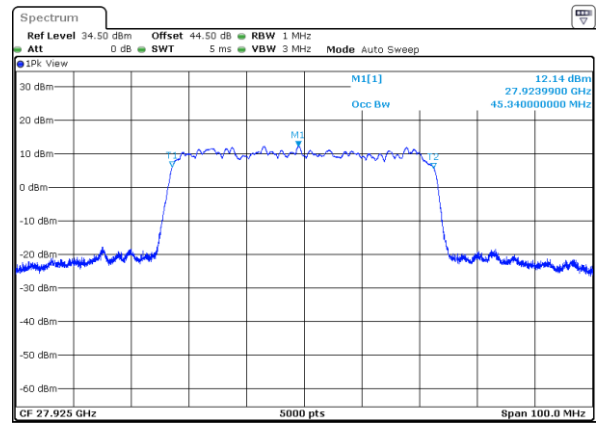
Lowest Channel / 50MHz / 64QAM



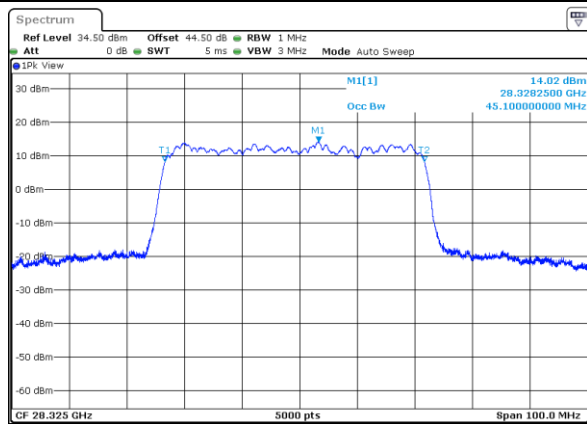
Middle Channel / 50MHz / 16QAM



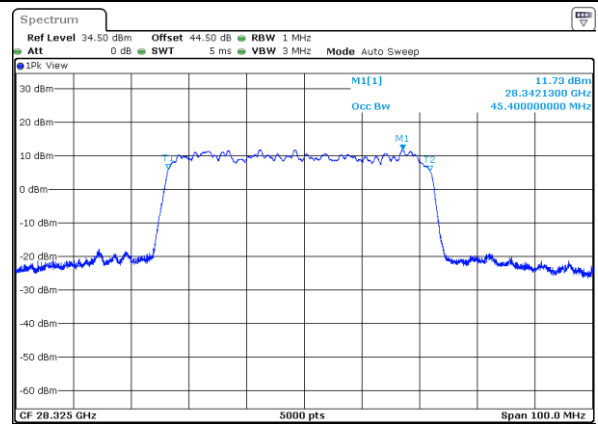
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

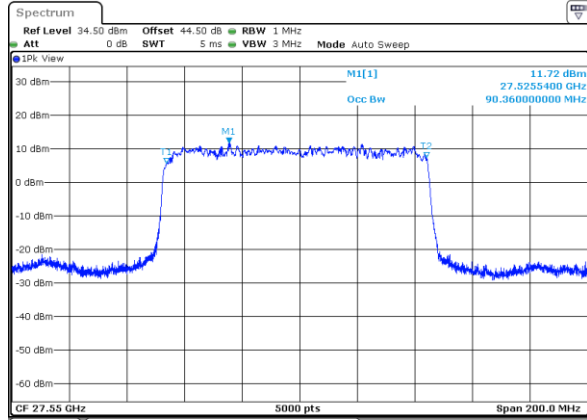




DFT-s-OFDM Module 0

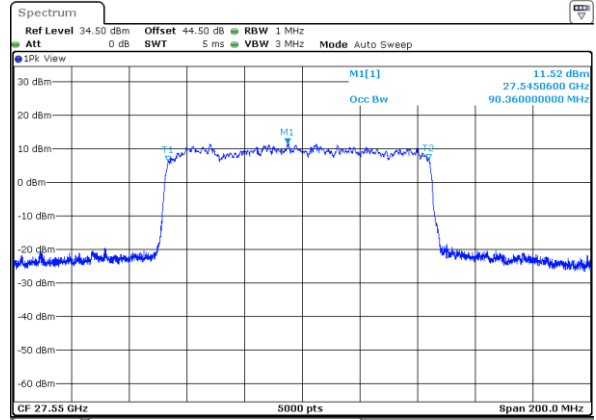
NR Band n261

Lowest Channel / 100MHz / BPSK



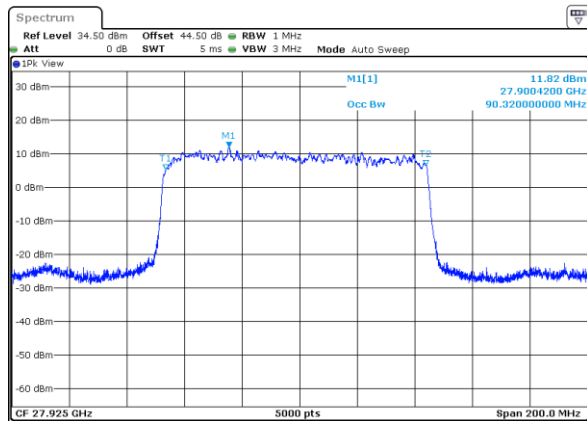
Date: 28.JUL.2020 06:36:51

Lowest Channel / 100MHz / QPSK



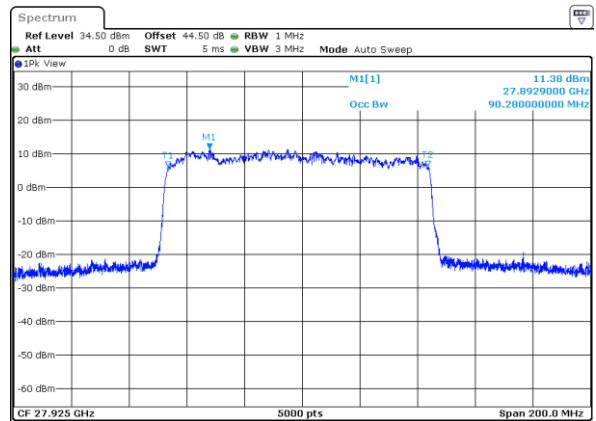
Date: 28.JUL.2020 06:33:44

Middle Channel / 100MHz / BPSK



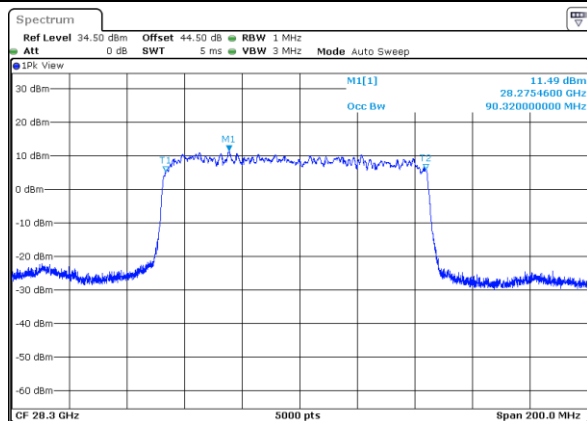
Date: 28.JUL.2020 06:43:46

Middle Channel / 100MHz / QPSK



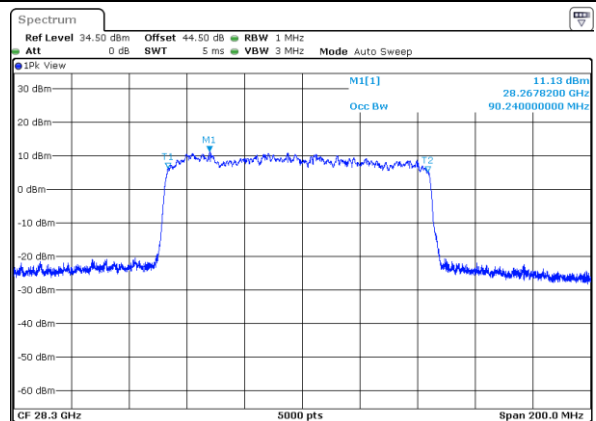
Date: 28.JUL.2020 06:43:57

Highest Channel / 100MHz / BPSK



Date: 28.JUL.2020 06:49:10

Highest Channel / 100MHz / QPSK



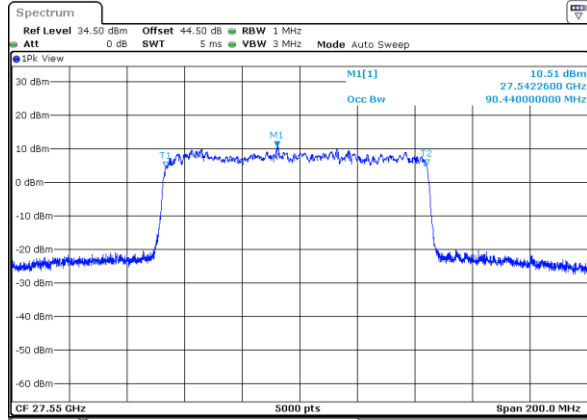
Date: 28.JUL.2020 06:47:23



DFT-s-OFDM Module 0

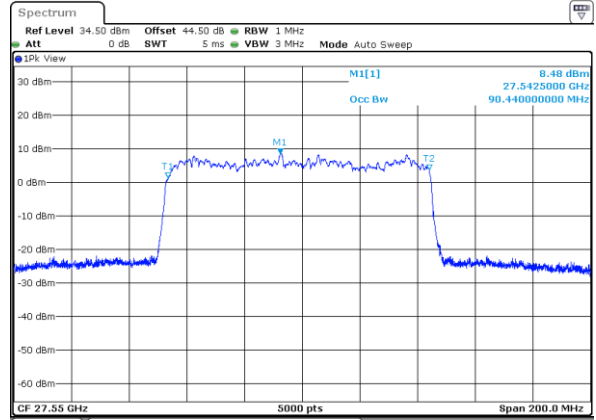
NR Band n261

Lowest Channel / 100MHz / 16QAM



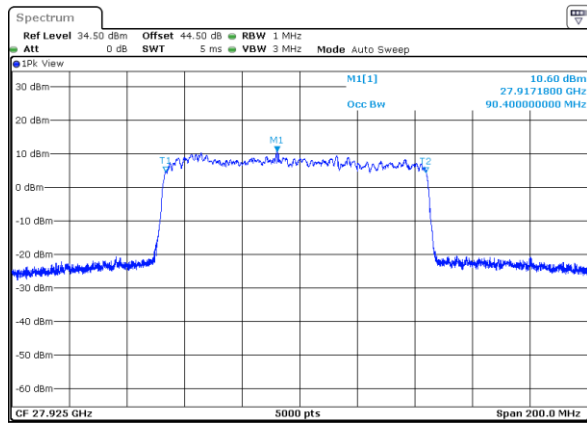
Date: 28.JUL.2020 06:34:20

Lowest Channel / 100MHz / 64QAM



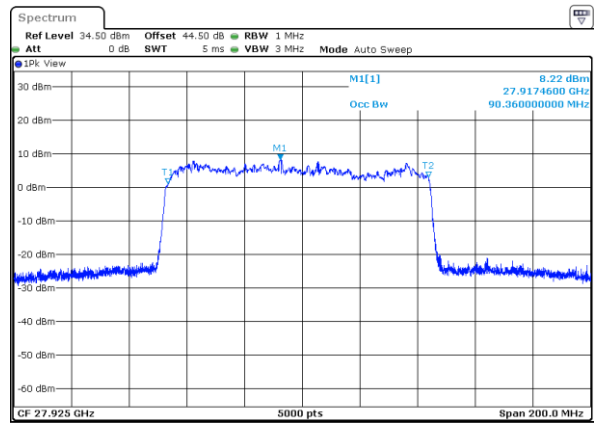
Date: 28.JUL.2020 06:36:18

Middle Channel / 100MHz / 16QAM



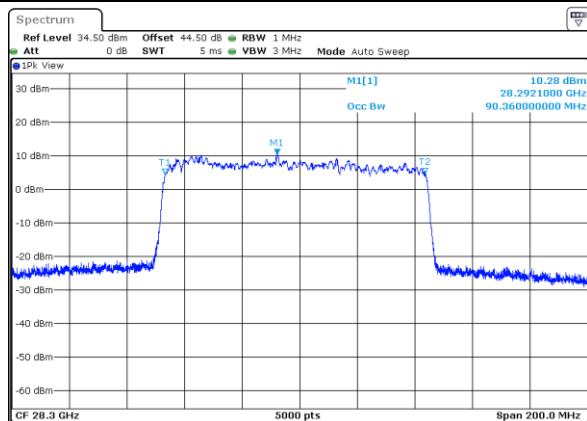
Date: 28.JUL.2020 06:42:34

Middle Channel / 100MHz / 64QAM



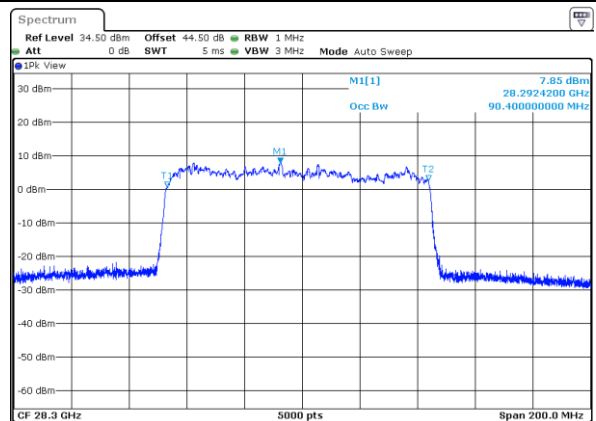
Date: 28.JUL.2020 06:43:08

Highest Channel / 100MHz / 16QAM



Date: 28.JUL.2020 06:47:57

Highest Channel / 100MHz / 64QAM



Date: 28.JUL.2020 06:48:34

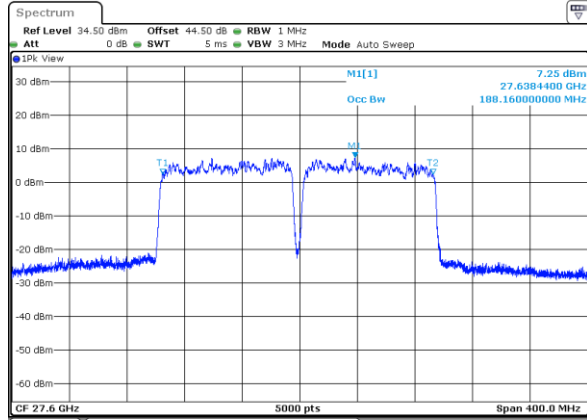




DFT-s-OFDM Module 0

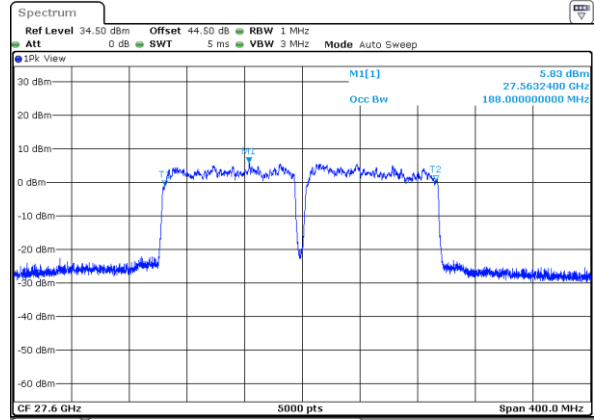
NR Band n261

Lowest Channel / 200MHz / 16QAM



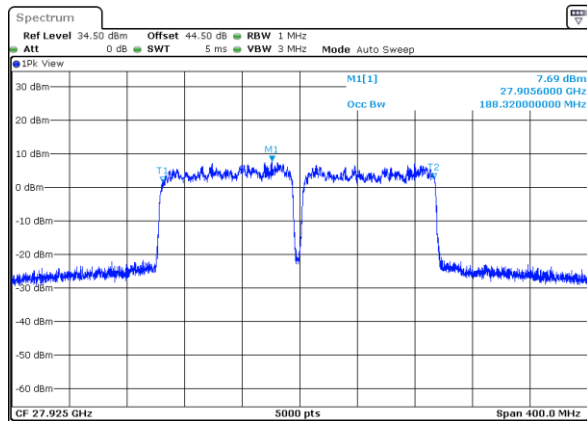
Date: 9.AUG.2020 15:51:45

Lowest Channel / 200MHz / 64QAM



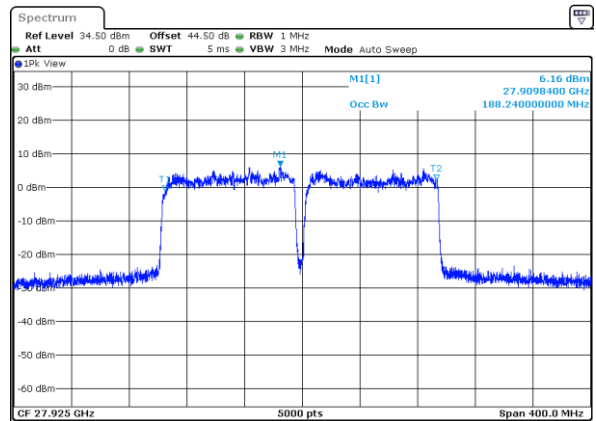
Date: 9.AUG.2020 15:53:15

Middle Channel / 200MHz / 16QAM



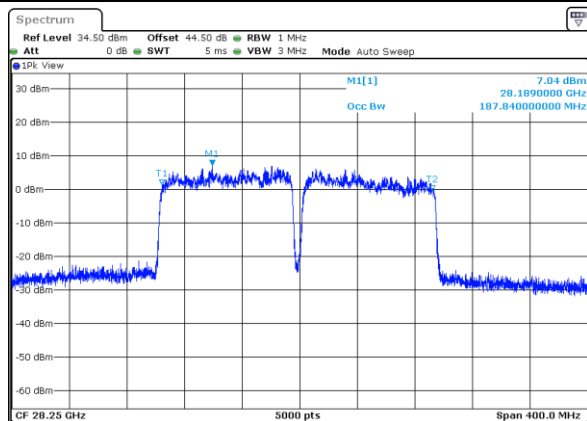
Date: 10.AUG.2020 10:49:40

Middle Channel / 200MHz / 64QAM



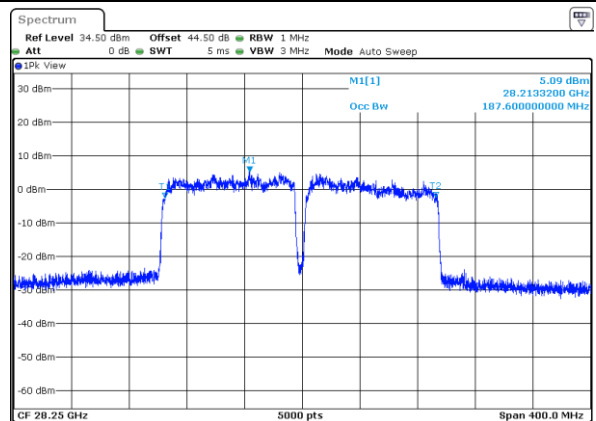
Date: 10.AUG.2020 10:49:21

Highest Channel / 200MHz / 16QAM



Date: 10.AUG.2020 15:19:37

Highest Channel / 200MHz / 64QAM



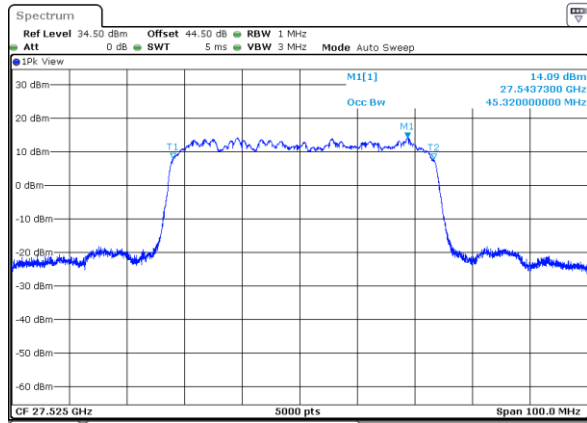
Date: 10.AUG.2020 15:16:11



DFT-s-OFDM Module 1

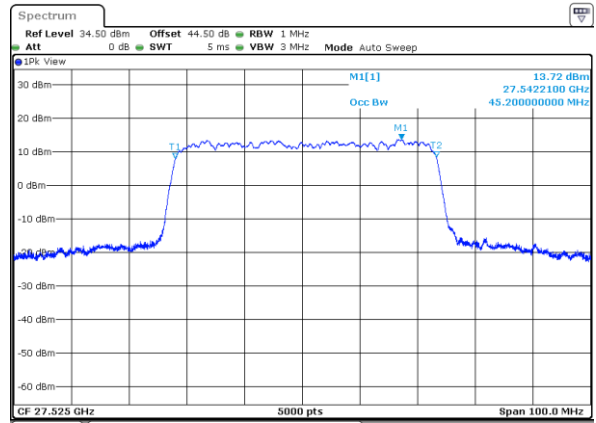
NR Band n261

Lowest Channel / 50MHz / BPSK



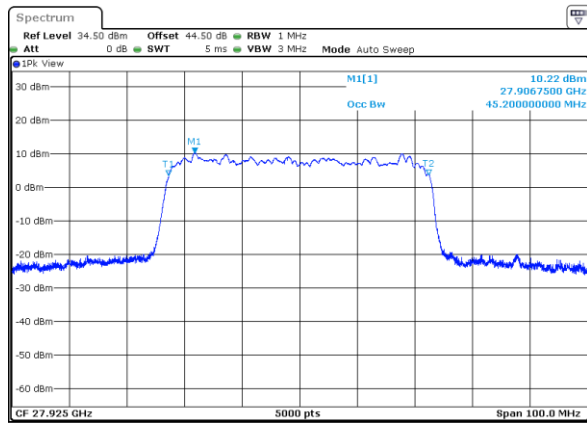
Date: 31.JUL.2020 11:17:54

Lowest Channel / 50MHz / QPSK



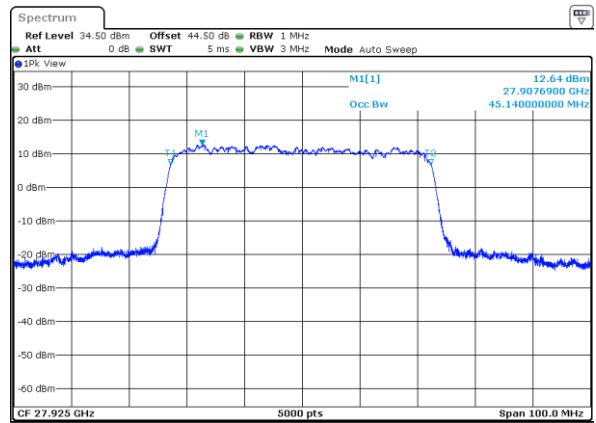
Date: 31.JUL.2020 11:20:01

Middle Channel / 50MHz / BPSK



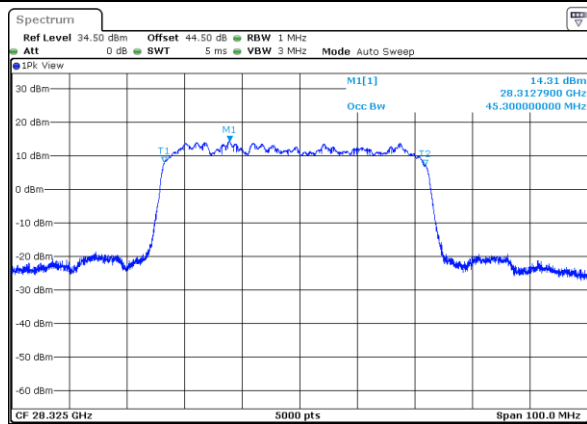
Date: 31.JUL.2020 17:00:48

Middle Channel / 50MHz / QPSK



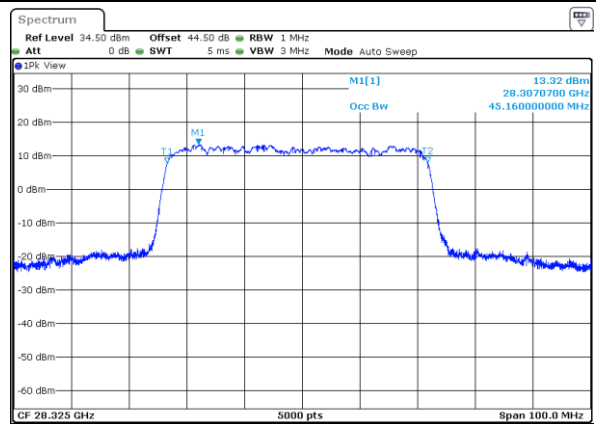
Date: 31.JUL.2020 16:50:31

Highest Channel / 50MHz / BPSK



Date: 31.JUL.2020 17:30:01

Highest Channel / 50MHz / QPSK



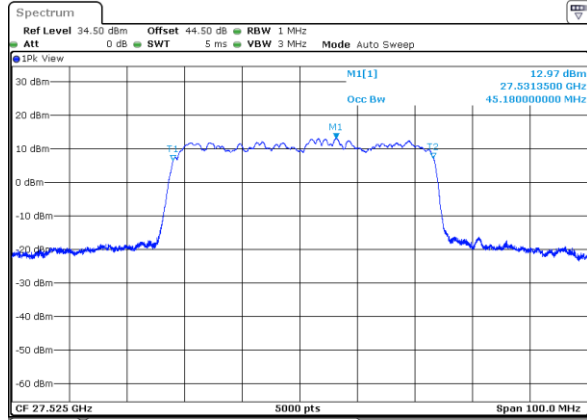
Date: 31.JUL.2020 17:31:06



DFT-s-OFDM Module 1

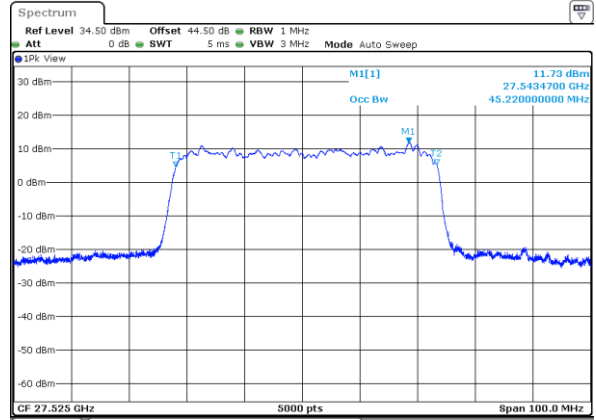
NR Band n261

Lowest Channel / 50MHz / 16QAM



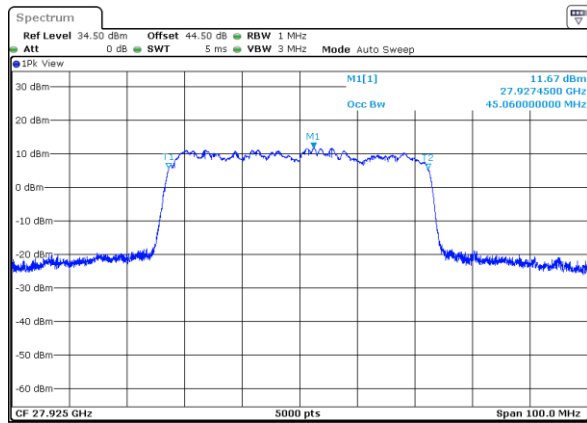
Date: 31.JUL.2020 11:21:49

Lowest Channel / 50MHz / 64QAM



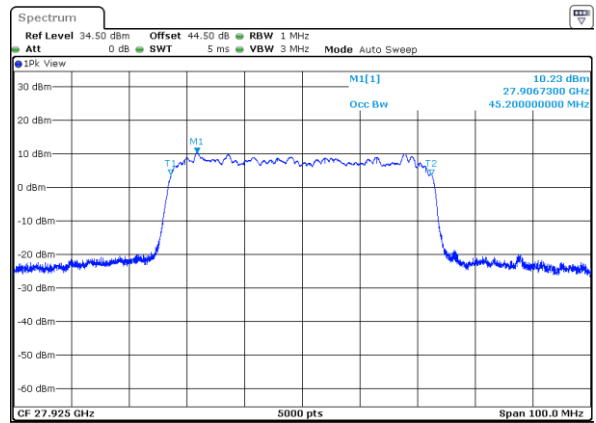
Date: 31.JUL.2020 11:23:48

Middle Channel / 50MHz / 16QAM



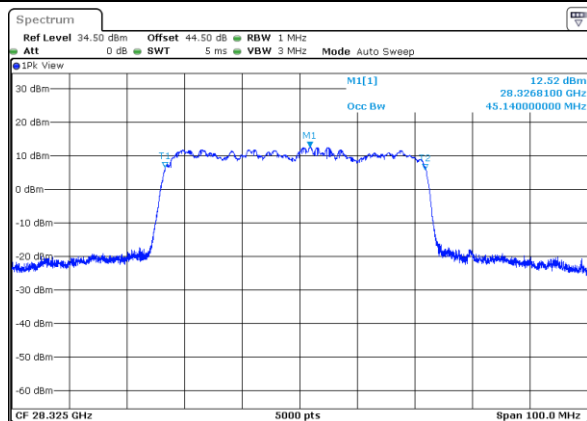
Date: 31.JUL.2020 16:51:50

Middle Channel / 50MHz / 64QAM



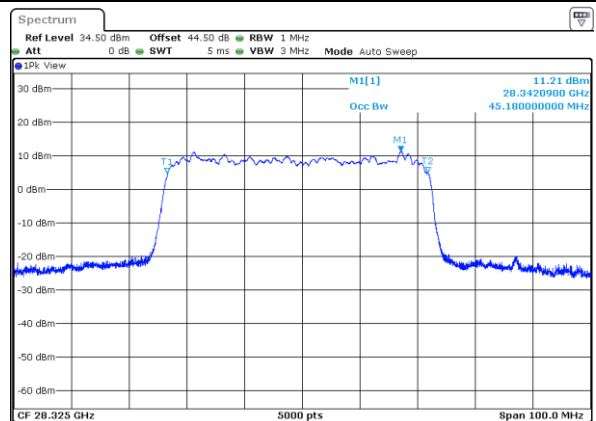
Date: 31.JUL.2020 17:00:21

Highest Channel / 50MHz / 16QAM



Date: 31.JUL.2020 17:32:10

Highest Channel / 50MHz / 64QAM



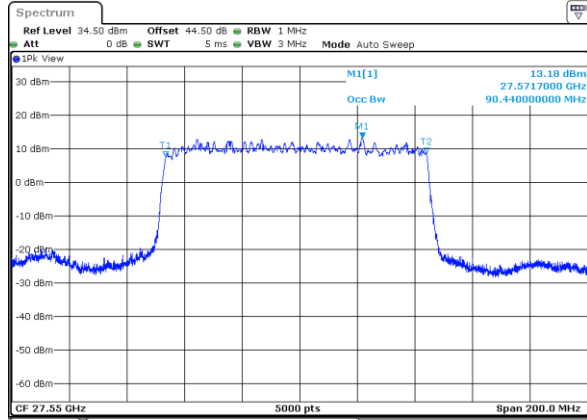
Date: 31.JUL.2020 17:33:39



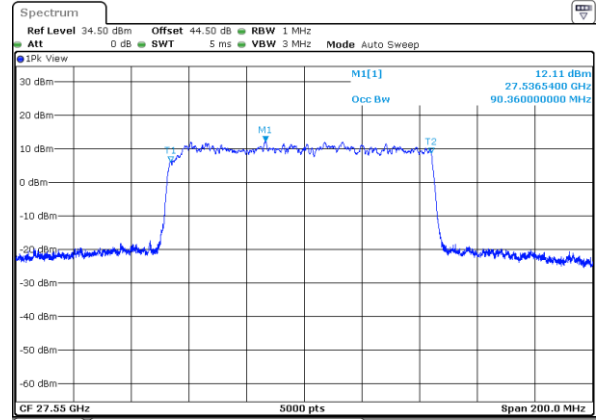
DFT-s-OFDM Module 1

NR Band n261

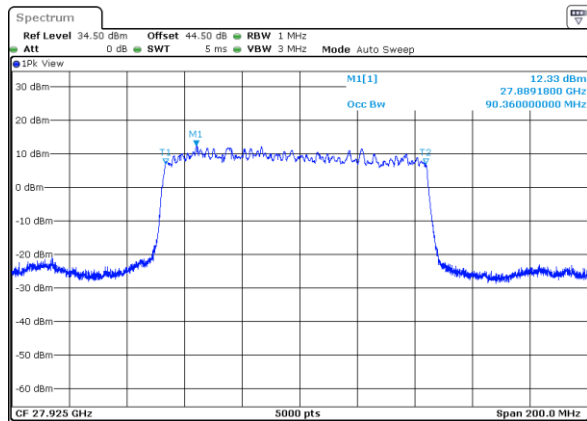
Lowest Channel / 100MHz / BPSK



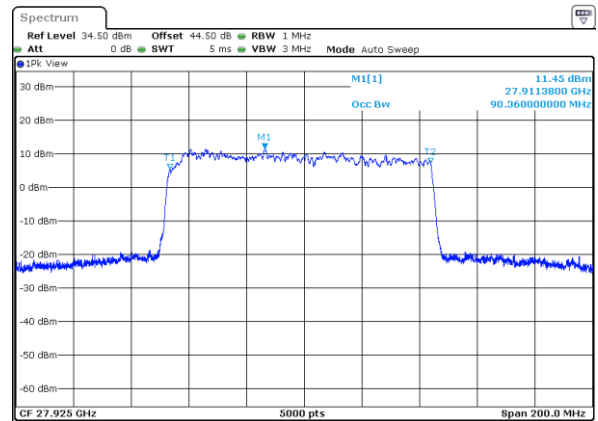
Lowest Channel / 100MHz / QPSK



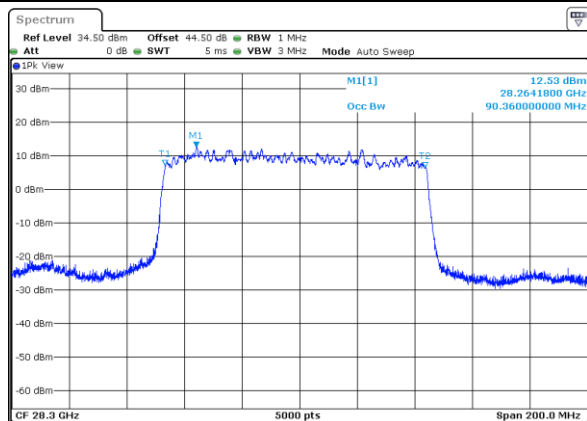
Middle Channel / 100MHz / BPSK



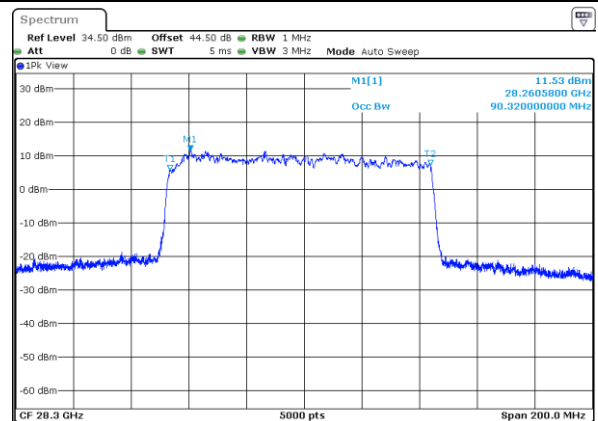
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

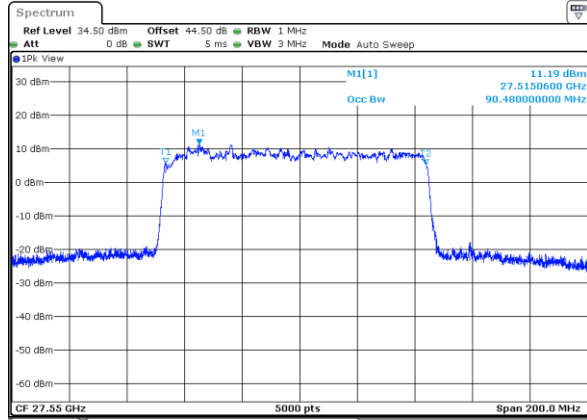




DFT-s-OFDM Module 1

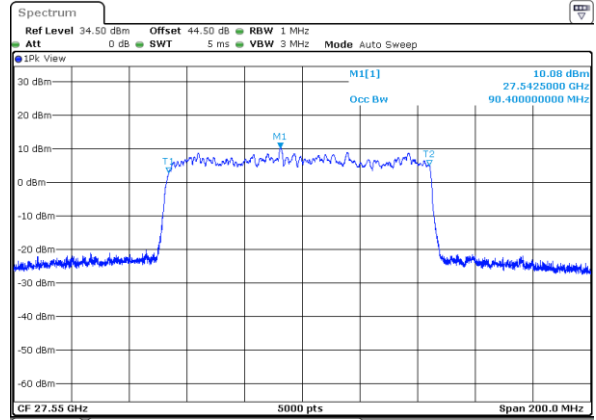
NR Band n261

Lowest Channel / 100MHz / 16QAM



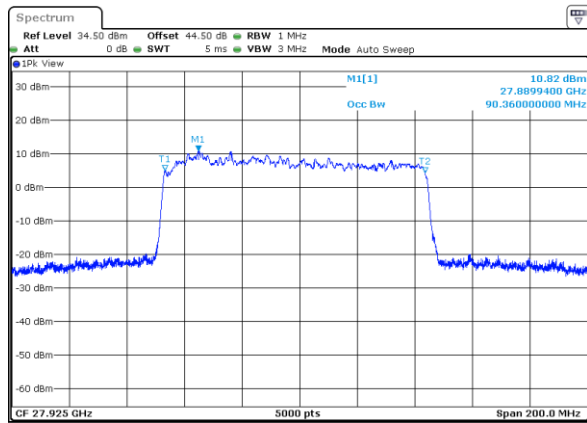
Date: 30.JUL.2020 22:36:34

Lowest Channel / 100MHz / 64QAM



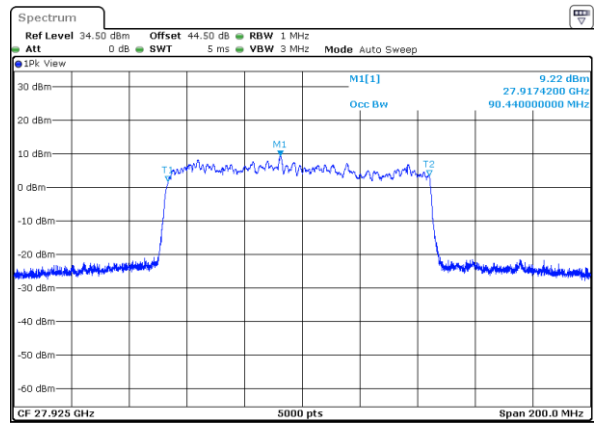
Date: 30.JUL.2020 22:35:14

Middle Channel / 100MHz / 16QAM



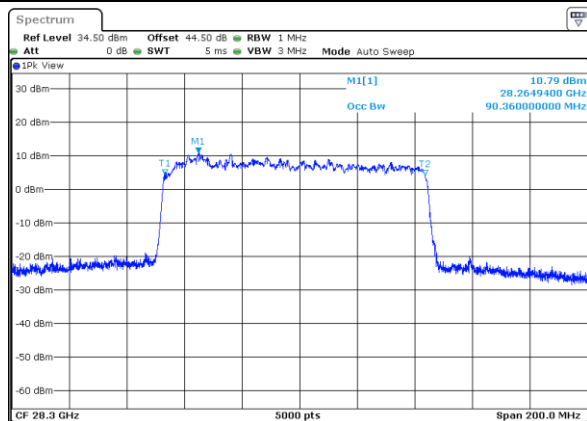
Date: 30.JUL.2020 23:56:20

Middle Channel / 100MHz / 64QAM



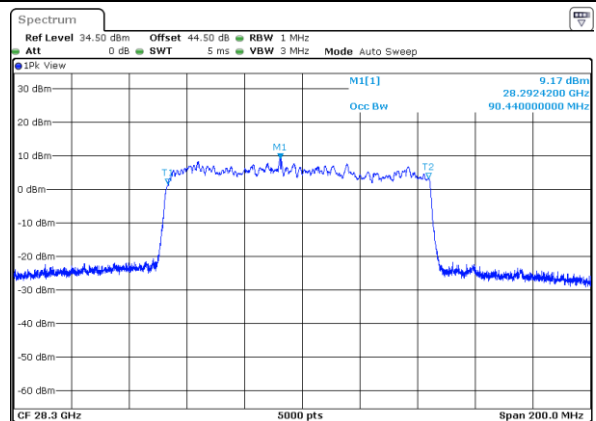
Date: 30.JUL.2020 23:55:04

Highest Channel / 100MHz / 16QAM



Date: 30.JUL.2020 21:16:03

Highest Channel / 100MHz / 64QAM



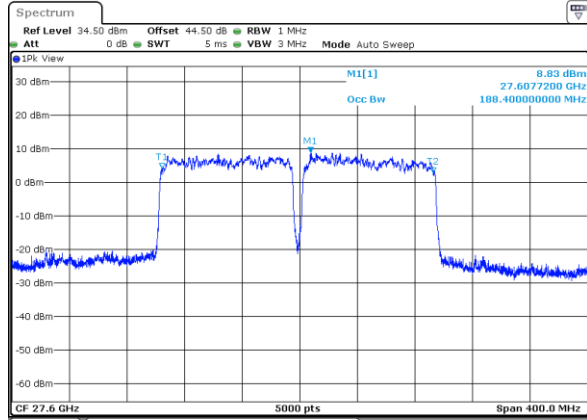
Date: 30.JUL.2020 21:13:28



DFT-s-OFDM Module 1

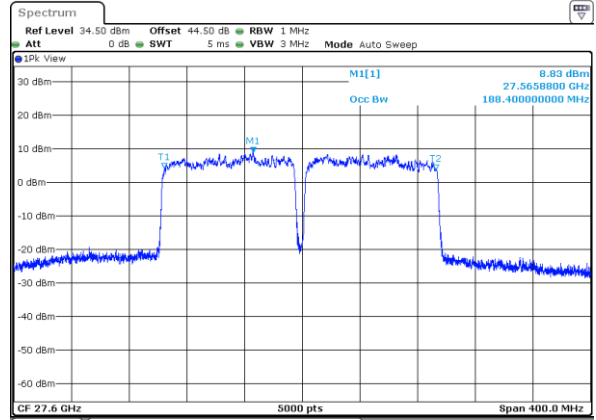
NR Band n261

Lowest Channel / 200MHz / BPSK



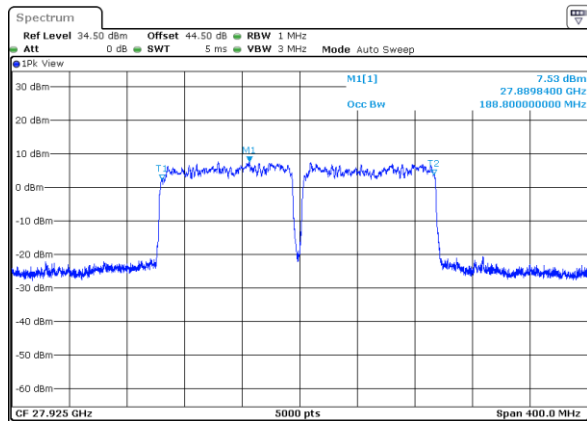
Date: 11.AUG.2020 00:37:00

Lowest Channel / 200MHz / QPSK



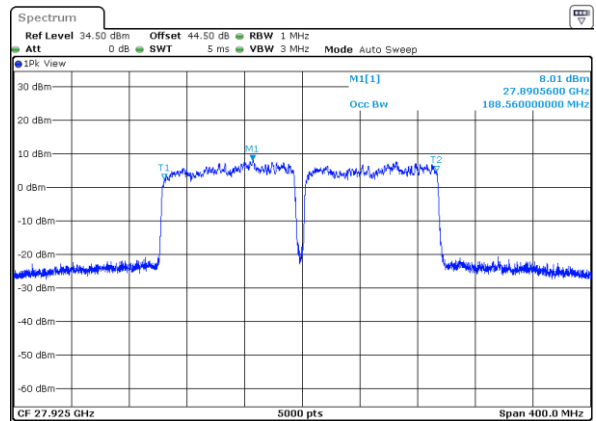
Date: 11.AUG.2020 00:38:18

Middle Channel / 200MHz / BPSK



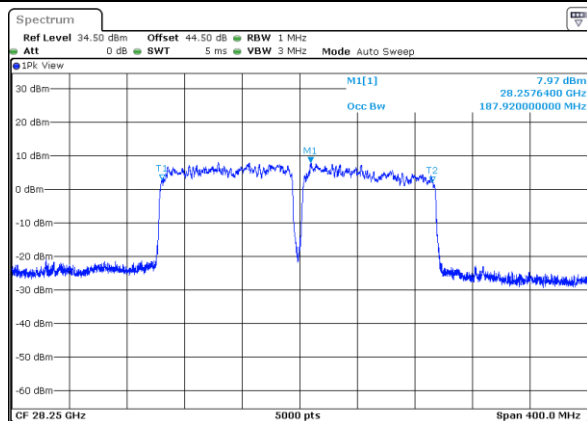
Date: 11.AUG.2020 01:01:41

Middle Channel / 200MHz / QPSK



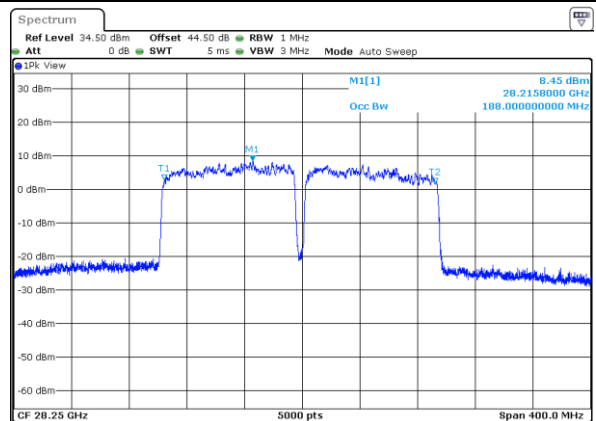
Date: 11.AUG.2020 01:02:29

Highest Channel / 200MHz / BPSK



Date: 11.AUG.2020 01:20:58

Highest Channel / 200MHz / QPSK



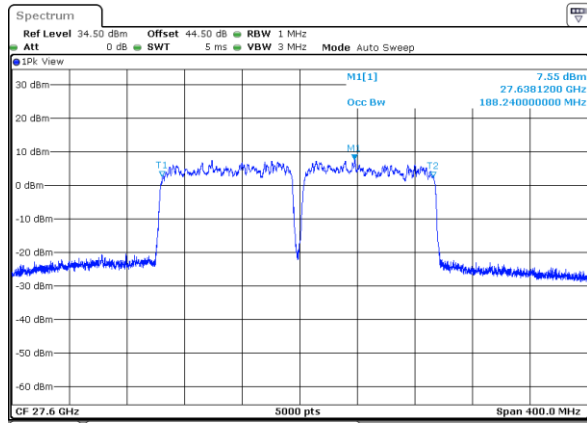
Date: 11.AUG.2020 01:23:27



DFT-s-OFDM Module 1

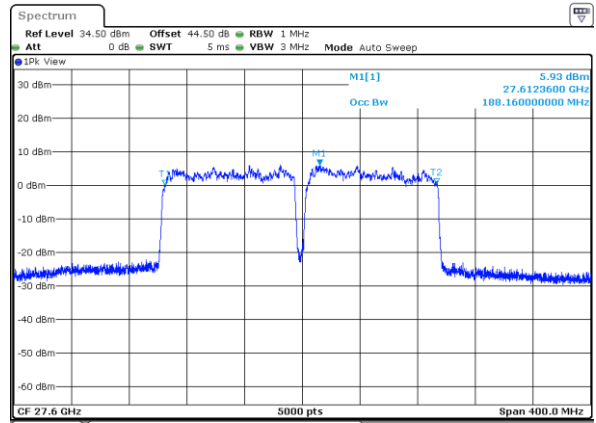
NR Band n261

Lowest Channel / 200MHz / 16QAM



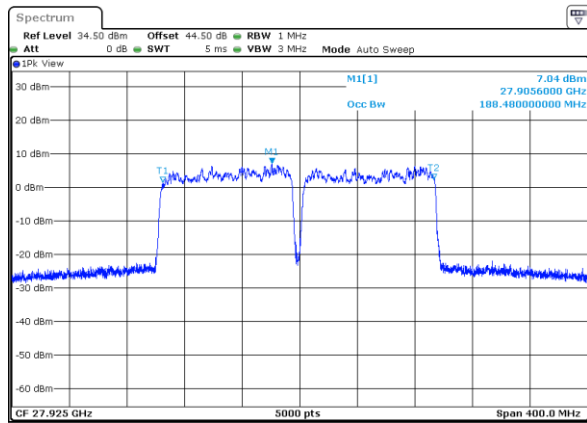
Date: 11.AUG.2020 00:39:54

Lowest Channel / 200MHz / 64QAM



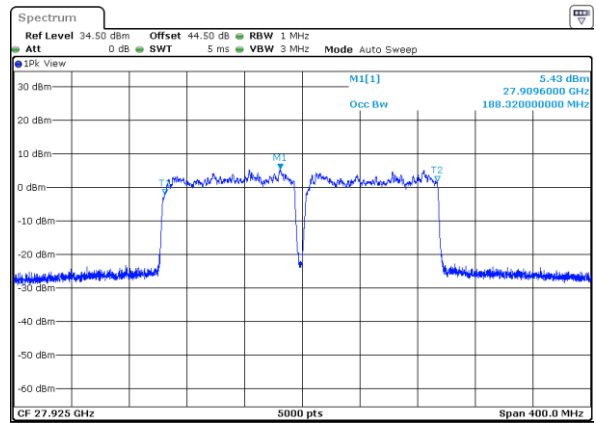
Date: 11.AUG.2020 00:41:22

Middle Channel / 200MHz / 16QAM



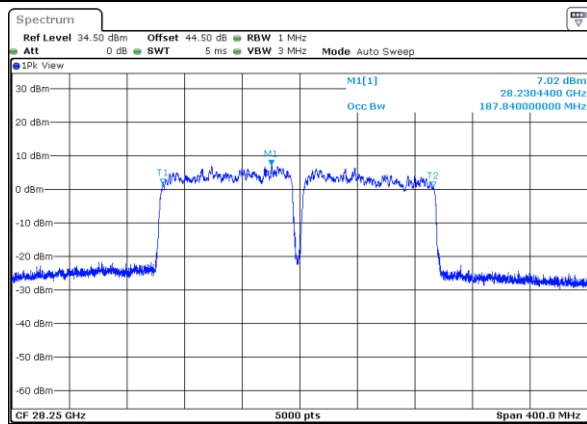
Date: 11.AUG.2020 01:03:17

Middle Channel / 200MHz / 64QAM



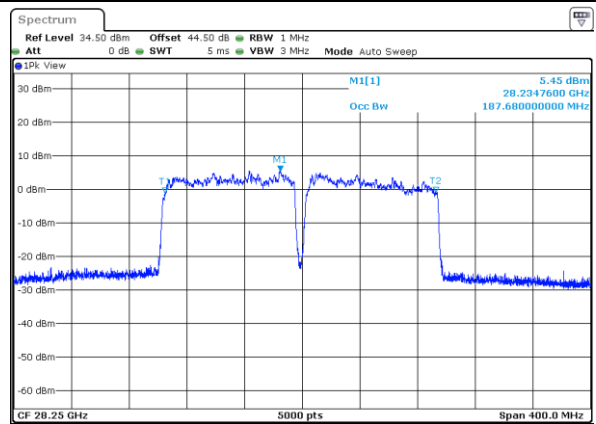
Date: 11.AUG.2020 01:04:12

Highest Channel / 200MHz / 16QAM



Date: 11.AUG.2020 01:25:19

Highest Channel / 200MHz / 64QAM



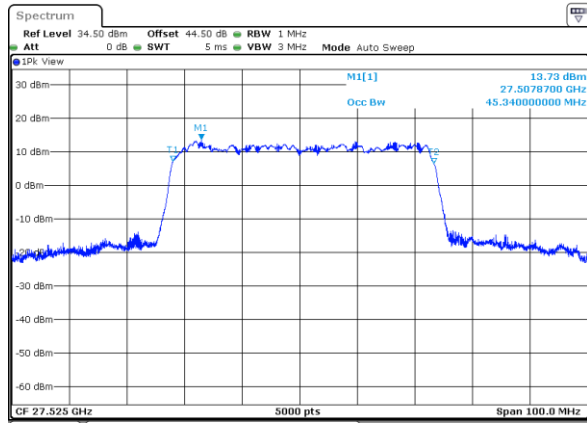
Date: 11.AUG.2020 01:26:51



CP-OFDM Module 0

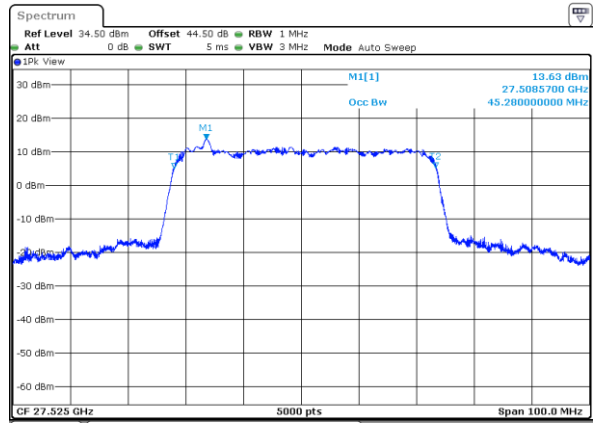
NR Band n261

Lowest Channel / 50MHz / QPSK



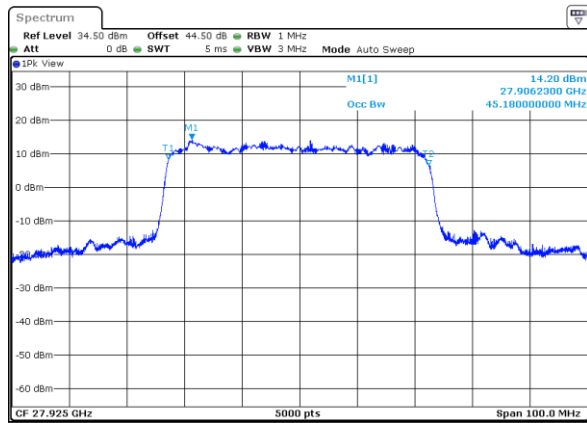
Date: 28.JUL.2020 23:59:30

Lowest Channel / 50MHz / 16QAM



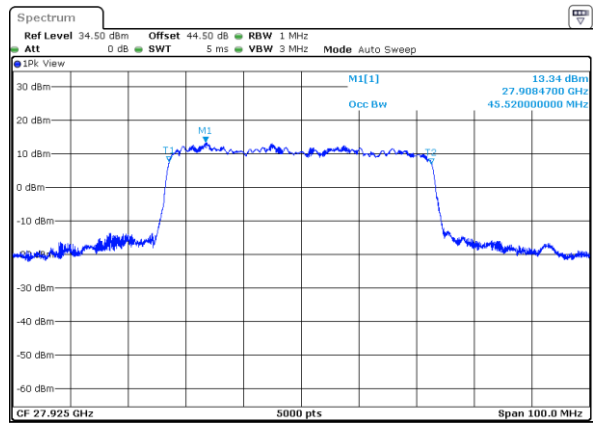
Date: 29.JUL.2020 00:02:58

Middle Channel / 50MHz / QPSK



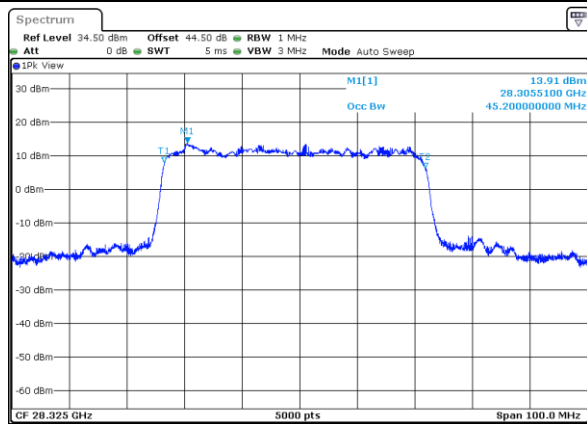
Date: 29.JUL.2020 03:45:07

Middle Channel / 50MHz / 16QAM



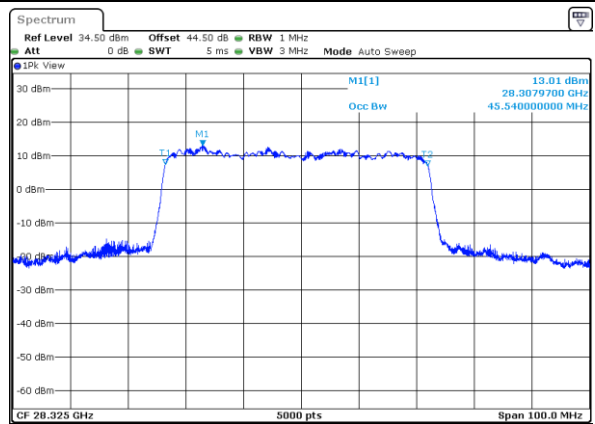
Date: 29.JUL.2020 03:47:56

Highest Channel / 50MHz / QPSK



Date: 29.JUL.2020 05:02:03

Highest Channel / 50MHz / 16QAM



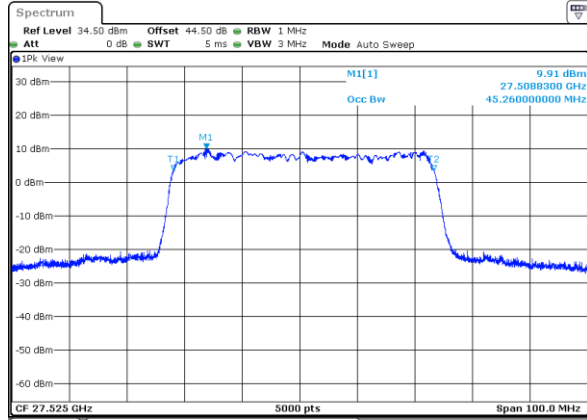
Date: 29.JUL.2020 05:04:31



CP-OFDM Module 0

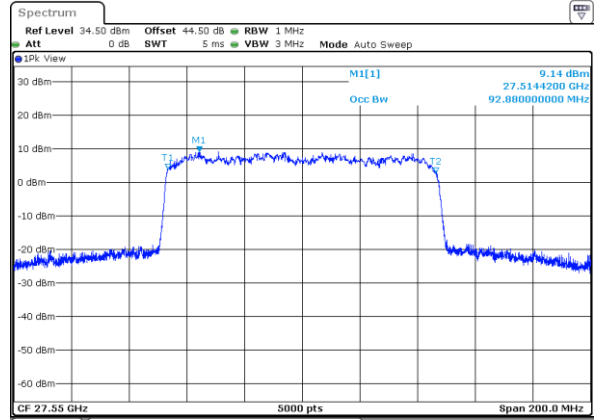
NR Band n261

Lowest Channel / 50MHz / 64QAM



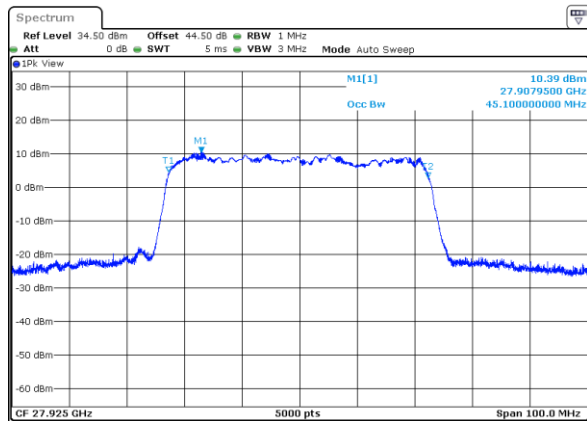
Date: 29.JUL.2020 00:04:33

Lowest Channel / 100MHz / QPSK



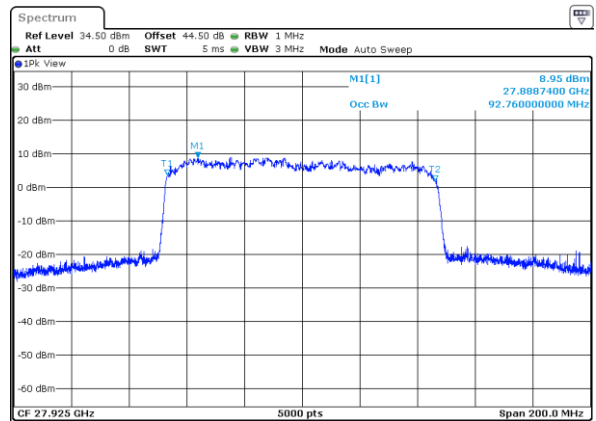
Date: 28.JUL.2020 06:17:47

Middle Channel / 50MHz / 64QAM



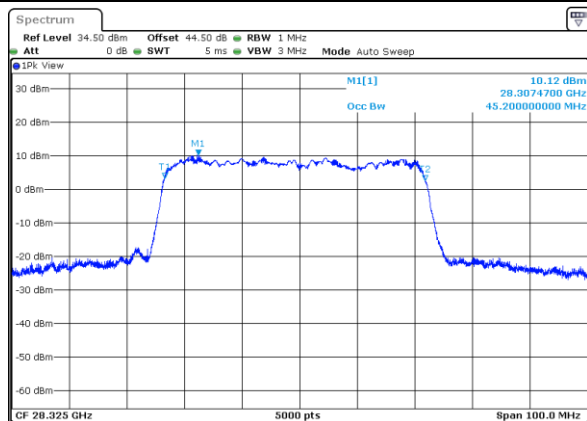
Date: 29.JUL.2020 03:49:51

Middle Channel / 100MHz / QPSK



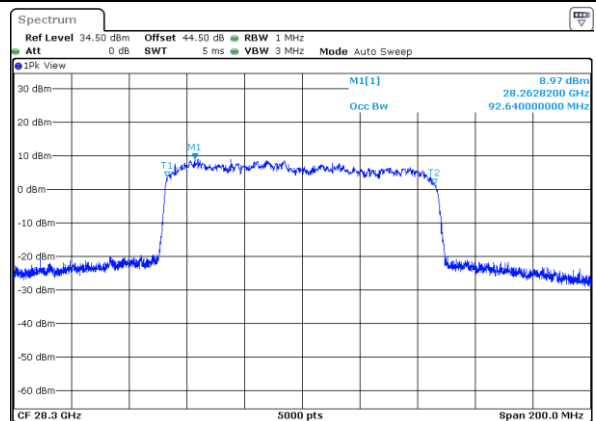
Date: 28.JUL.2020 06:44:57

Highest Channel / 50MHz / 64QAM



Date: 29.JUL.2020 05:07:46

Highest Channel / 100MHz / QPSK



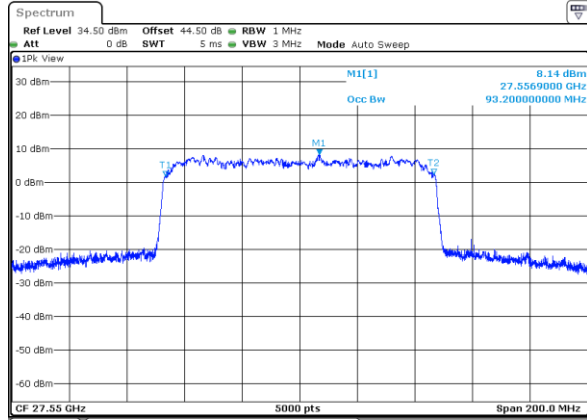
Date: 28.JUL.2020 06:50:10



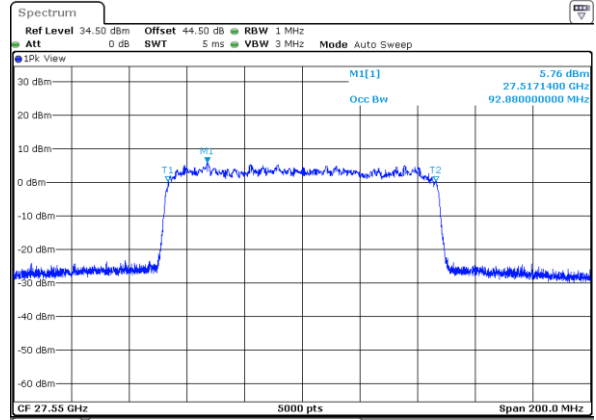
CP-OFDM Module 0

NR Band n261

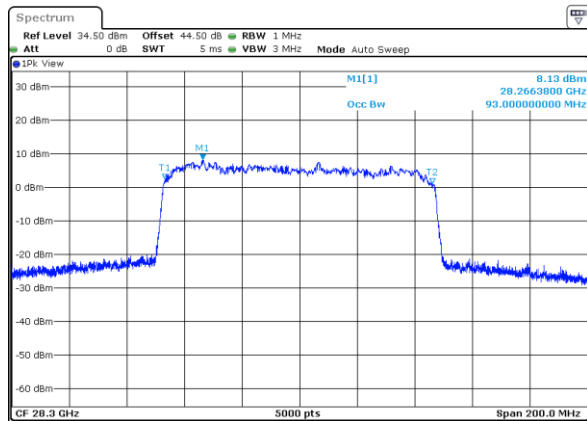
Lowest Channel / 100MHz / 16QAM



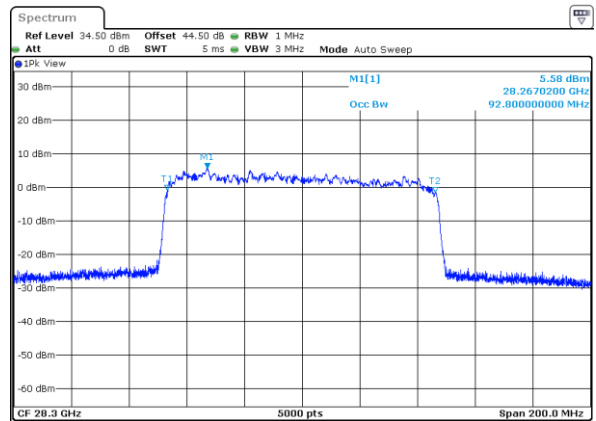
Lowest Channel / 100MHz / 64QAM



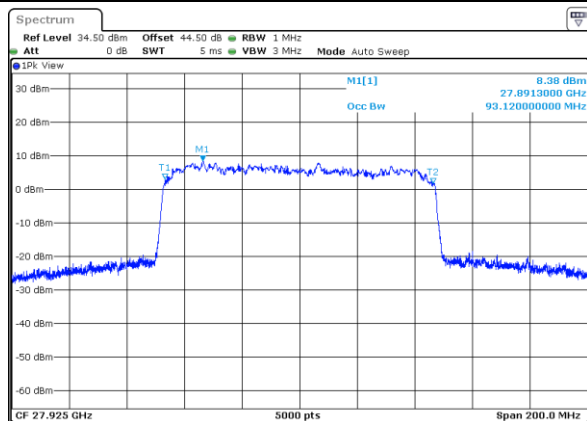
Middle Channel / 100MHz / 16QAM



Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

