

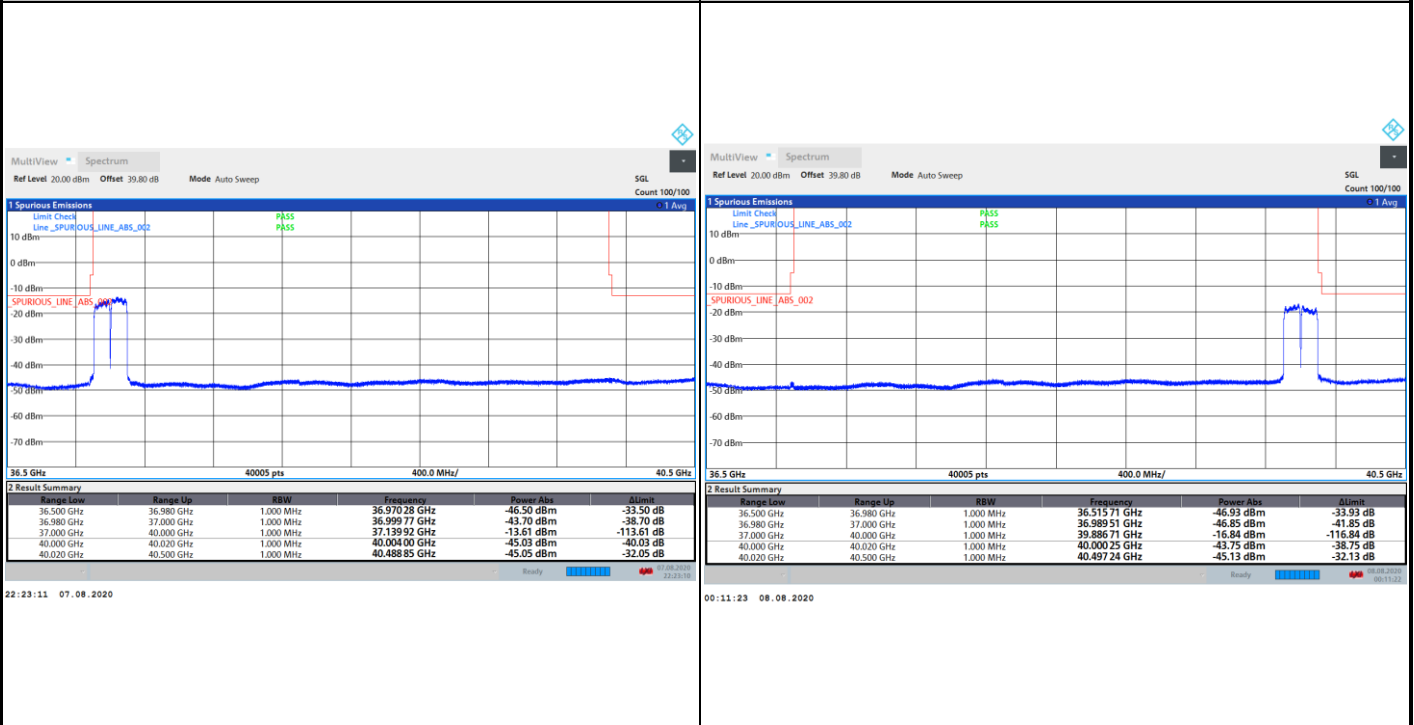


CP-OFDM Module 0

NR Band n260 / 200MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



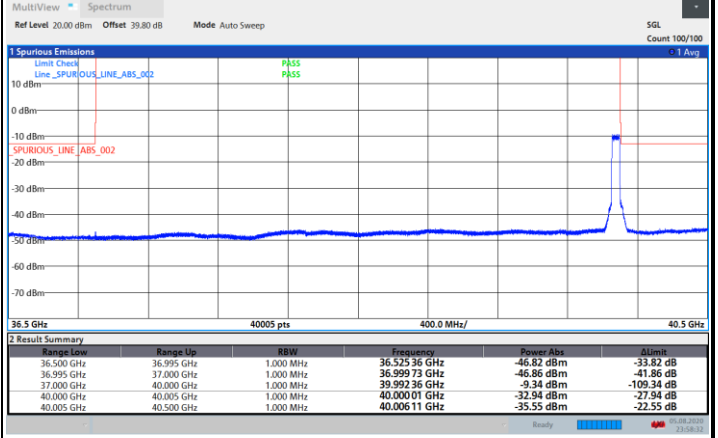
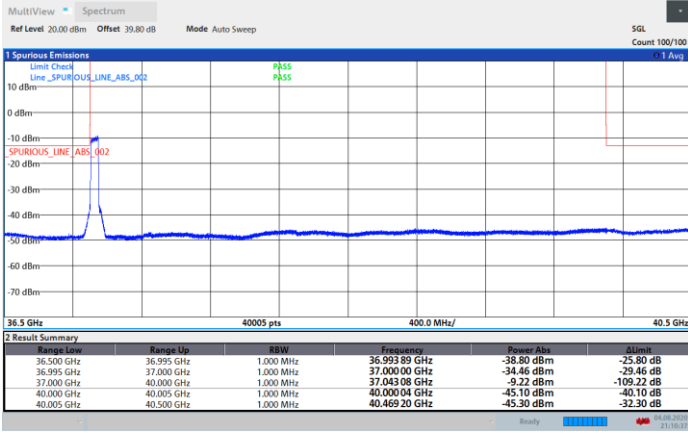


CP-OFDM Module 1

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

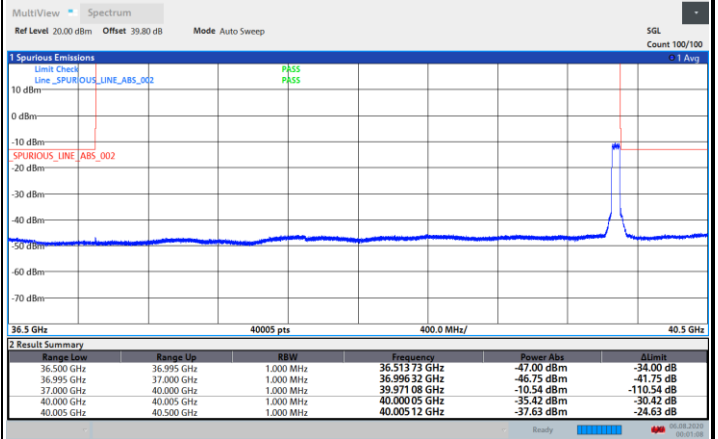
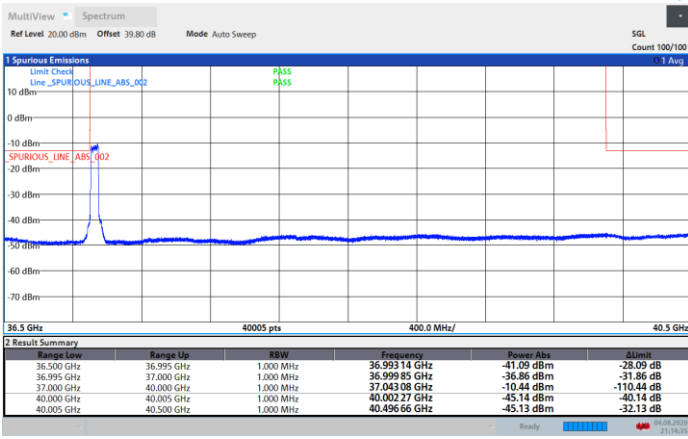
Highest Band Edge / Full RB



NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



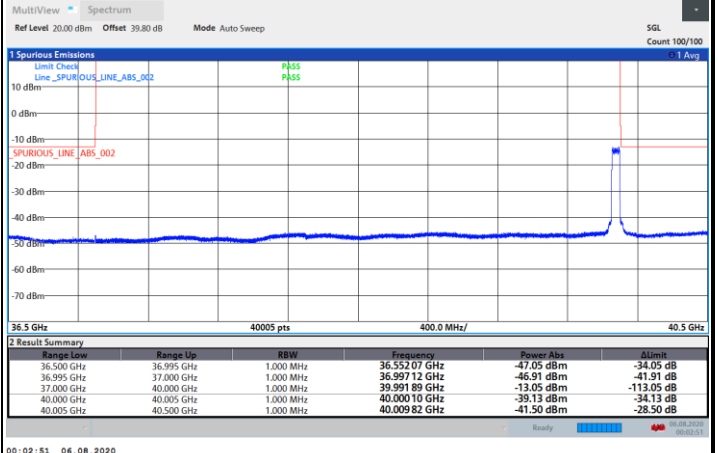
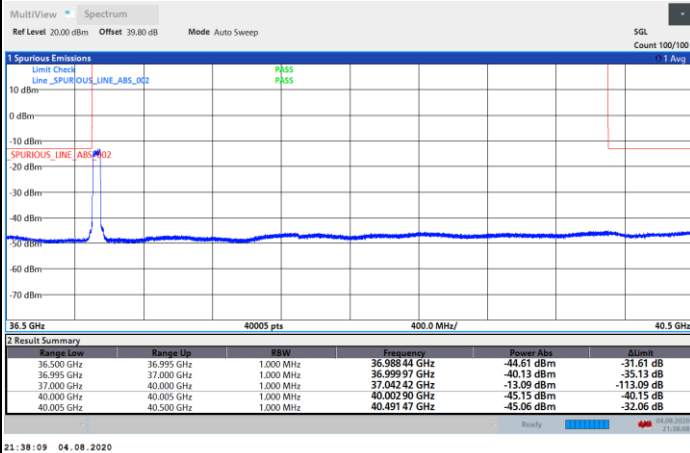


CP-OFDM Module 1

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB

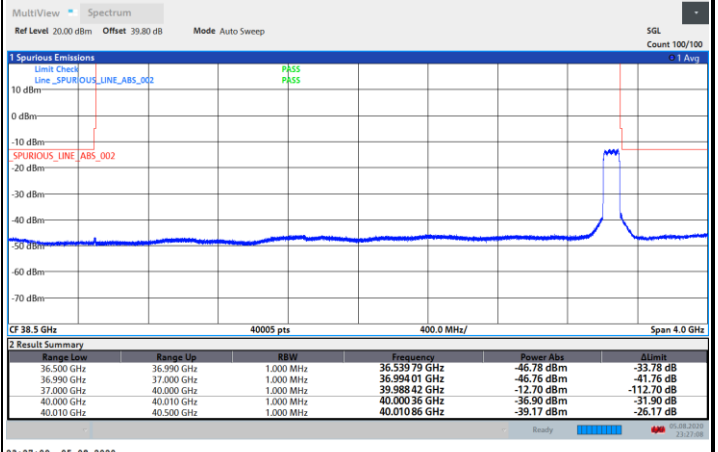
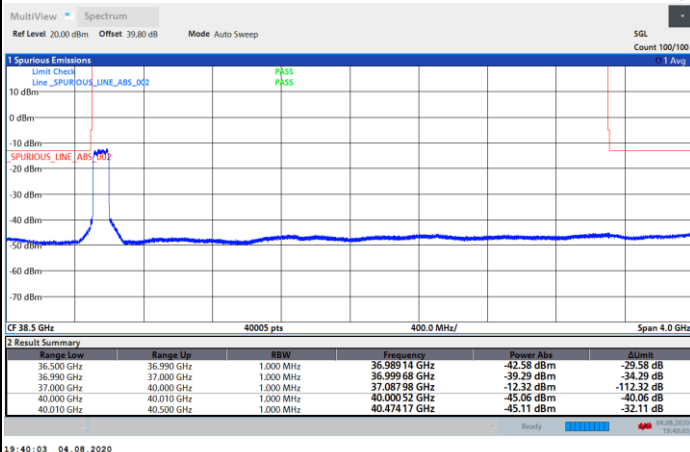
Highest Band Edge / Full RB



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

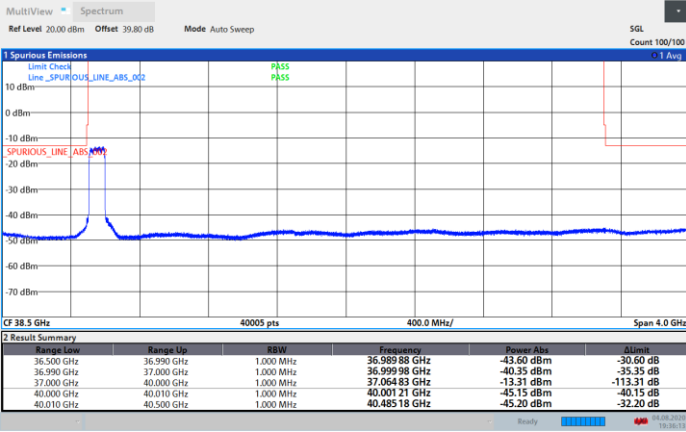




CP-OFDM Module 1

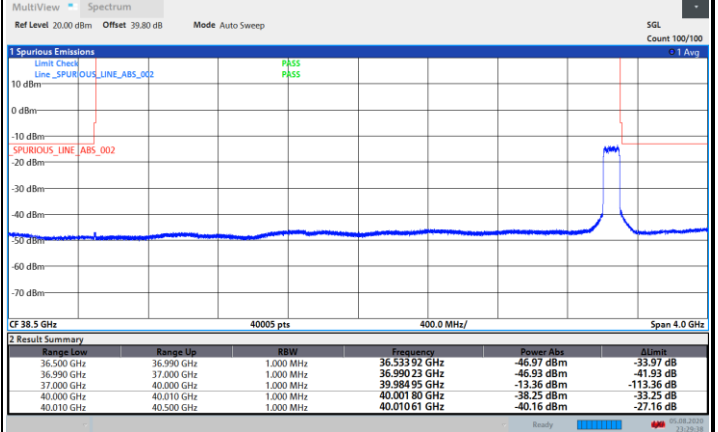
NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / Full RB



19:16:13 04.08.2020

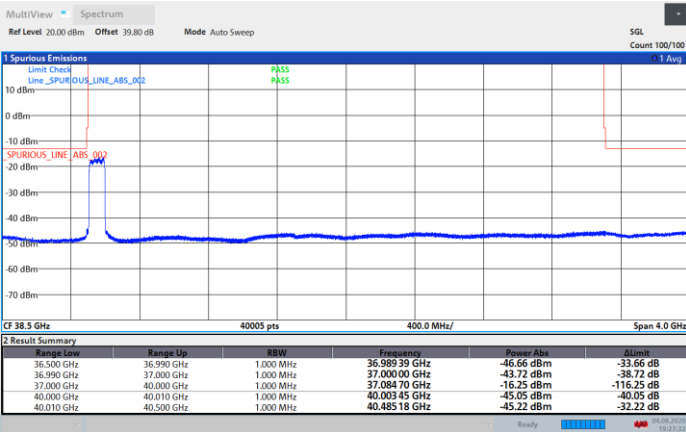
Highest Band Edge / Full RB



23:29:39 05.08.2020

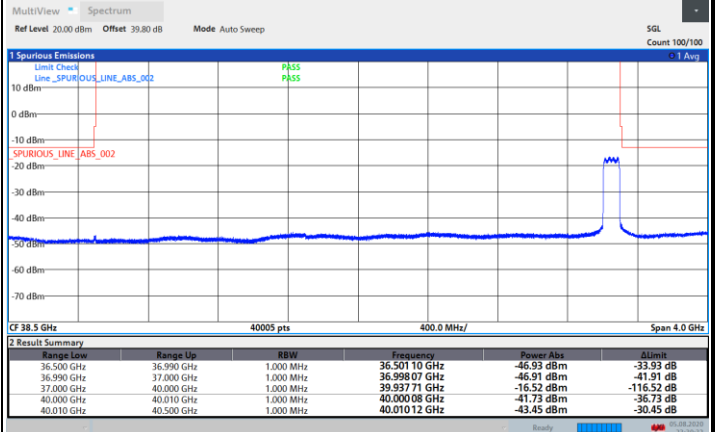
NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / Full RB



19:27:33 04.08.2020

Highest Band Edge / Full RB



23:30:33 05.08.2020

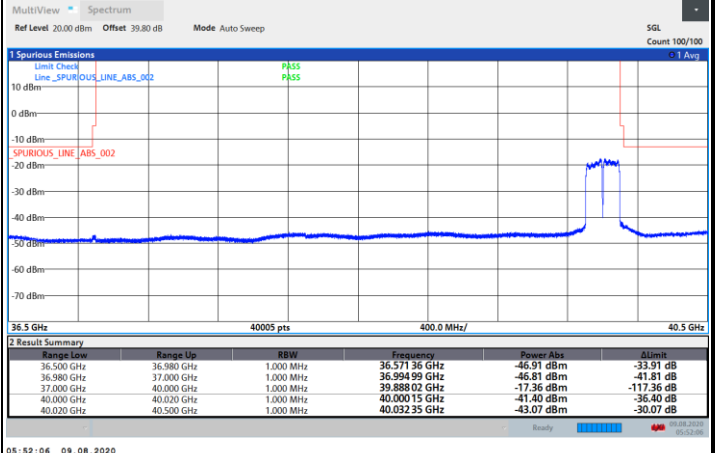


CP-OFDM Module 1

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / Full RB

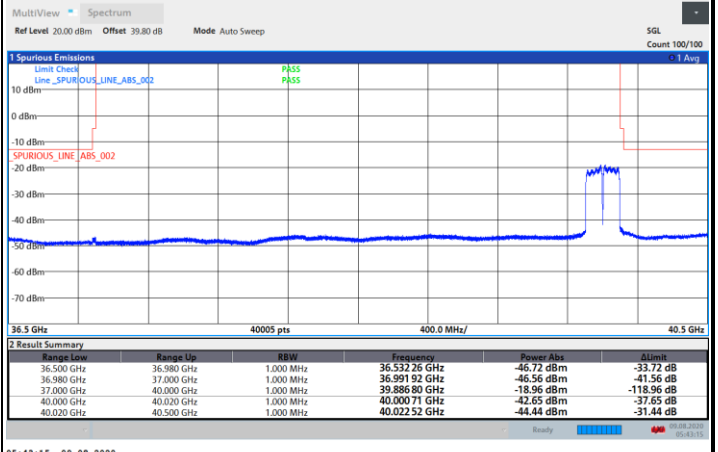
Highest Band Edge / Full RB



NR Band n260 / 200MHz / 16QAM

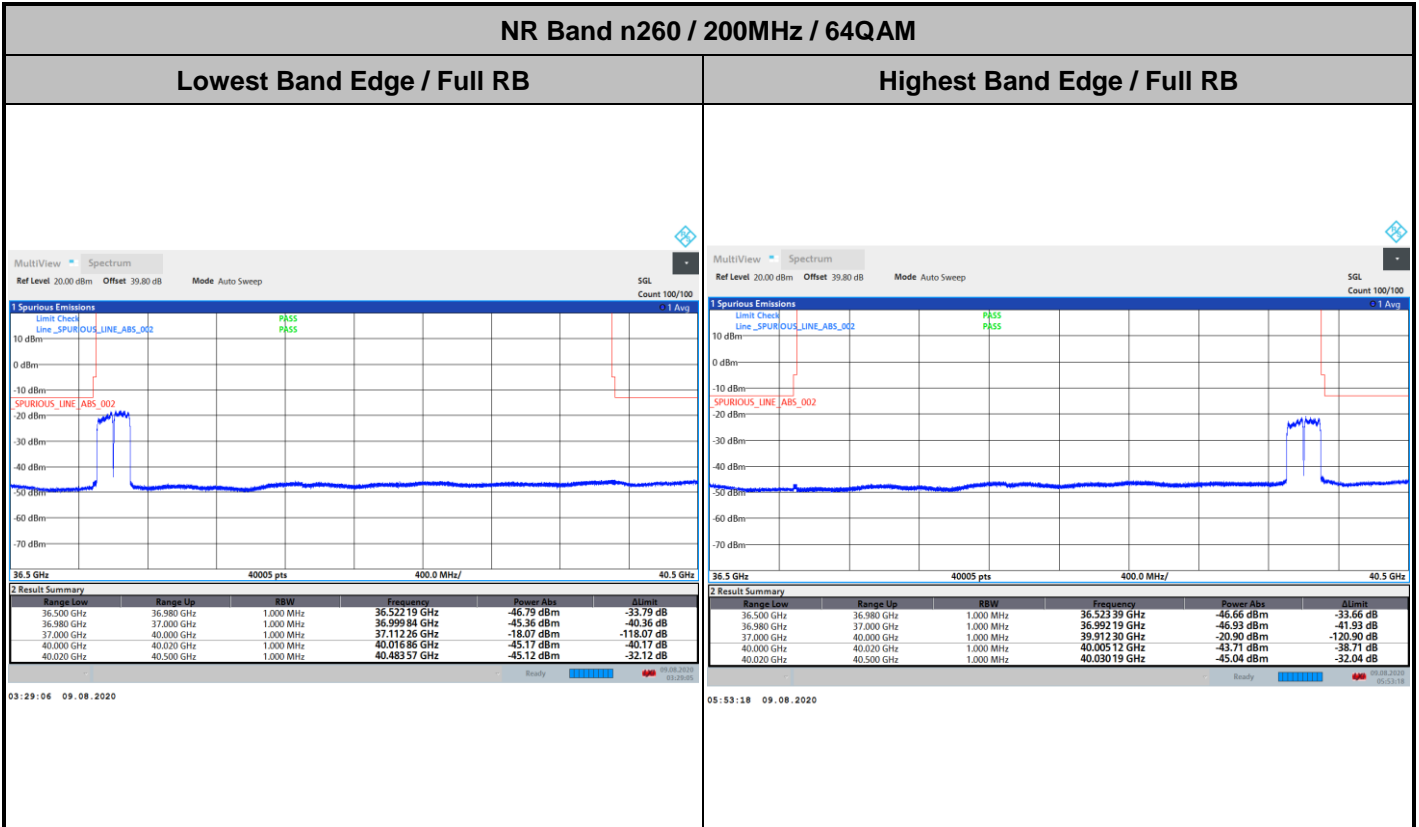
Lowest Band Edge / Full RB

Highest Band Edge / Full RB





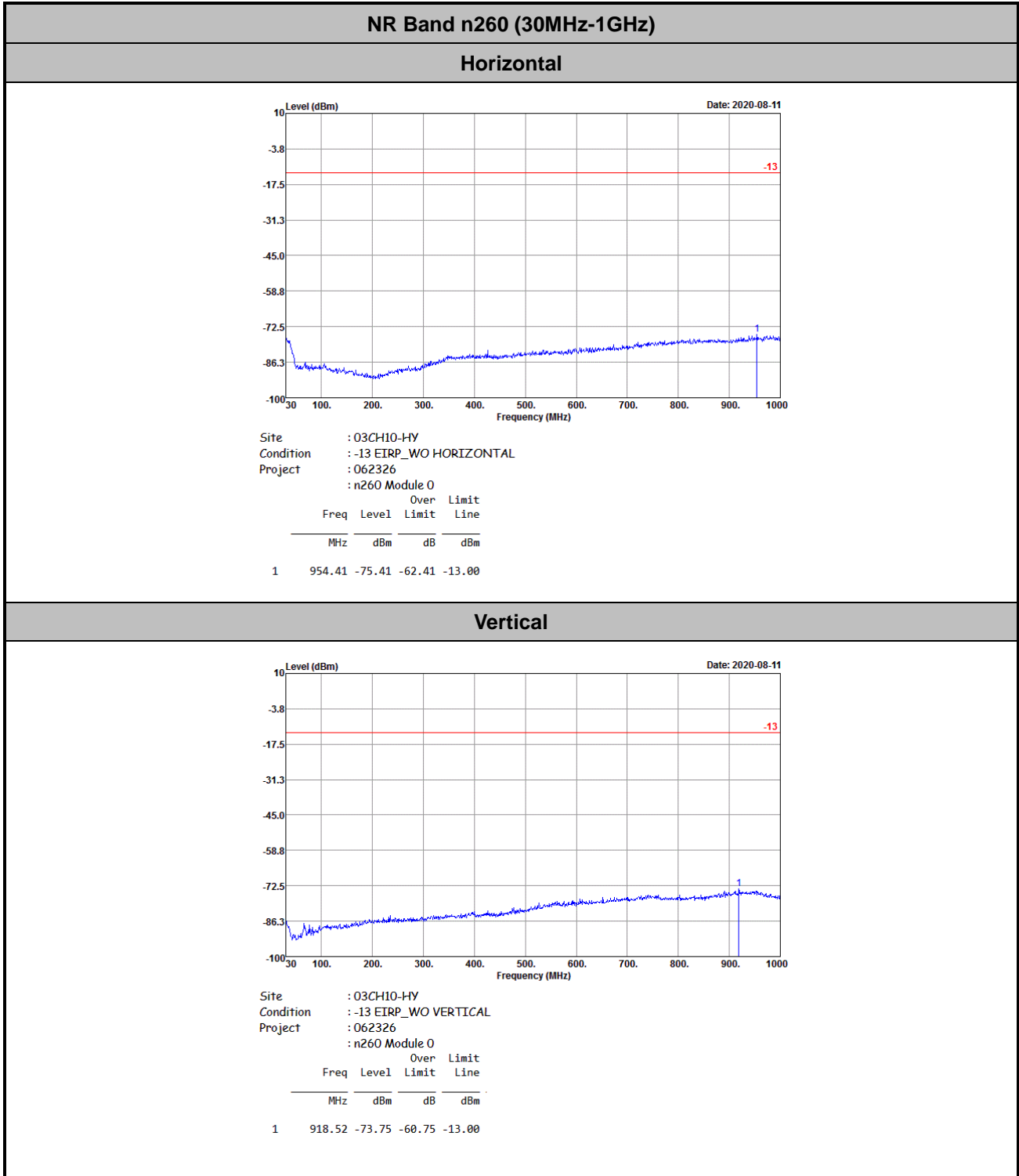
CP-OFDM Module 1





Spurious Emission

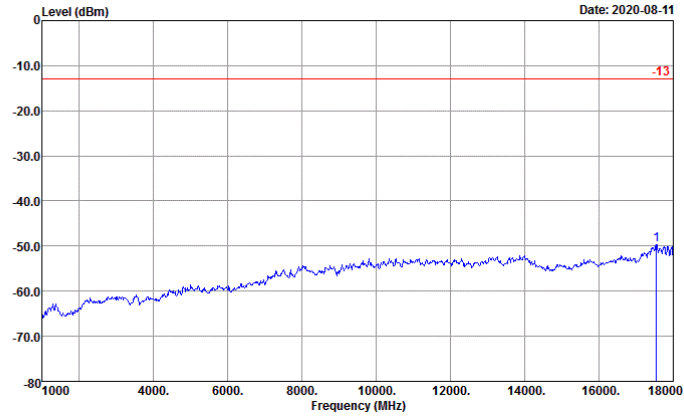
There is no significant spurious emission signal found for frequency started from 9kHz up to 18GHz. Only the noise floor is reported.





NR Band n260 (1GHz-18GHz)

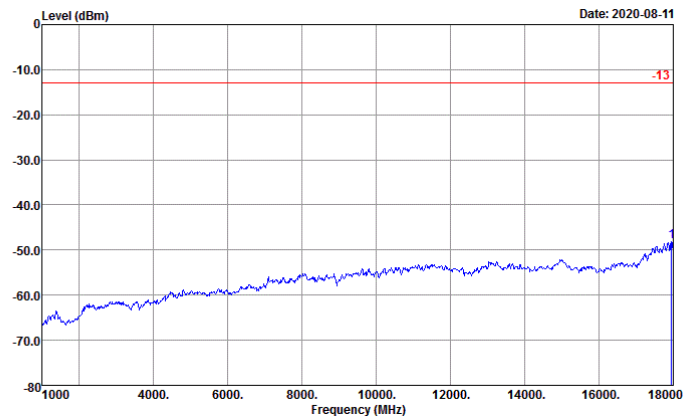
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 062326
 : n260 Module 0

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1 17541.00	-49.65	-36.65	-13.00

Vertical



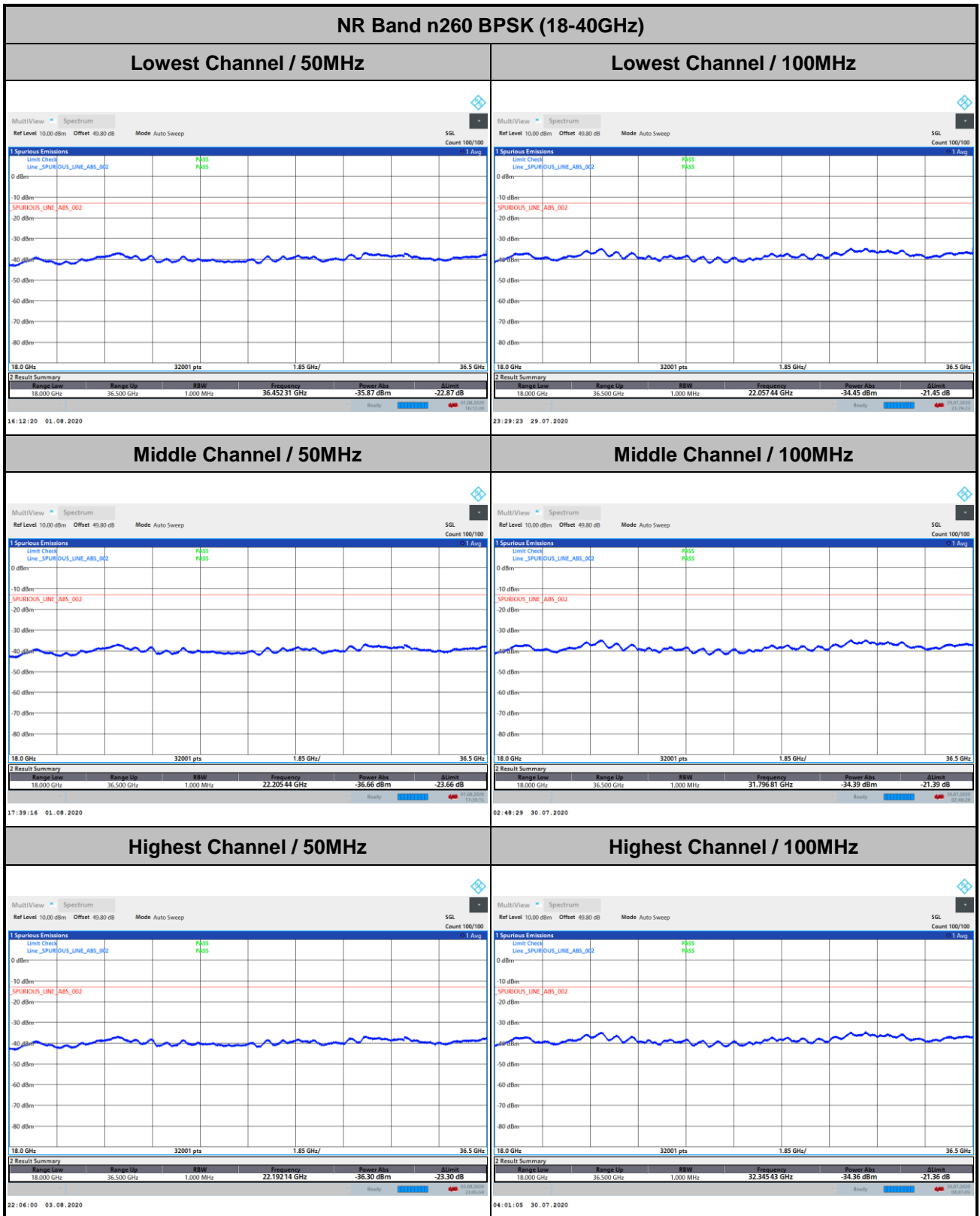
Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 062326
 : n260 Module 0

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1 17949.00	-48.06	-35.06	-13.00



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

DFT-s-OFDM Module 0

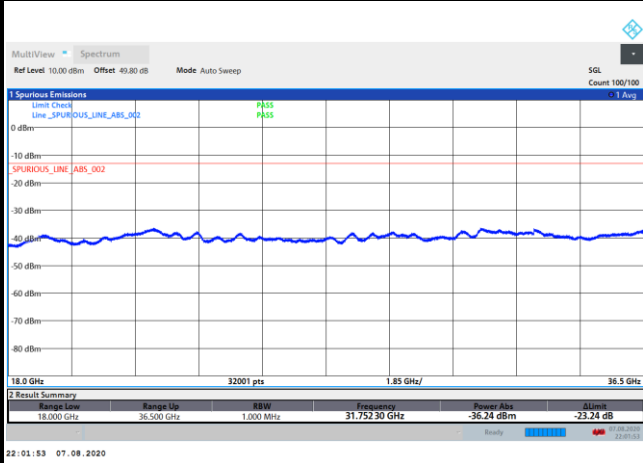




DFT-s-OFDM Module 0

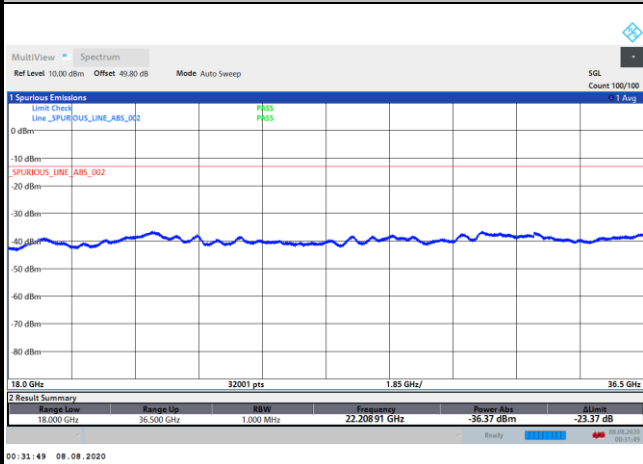
NR Band n260 BPSK (18-40GHz)

Lowest Channel / 200MHz



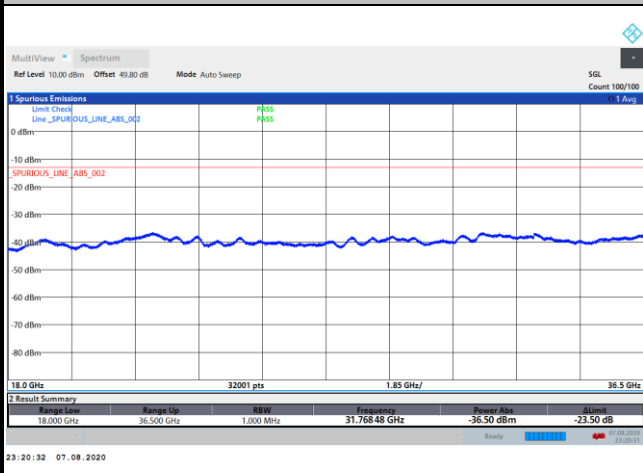
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



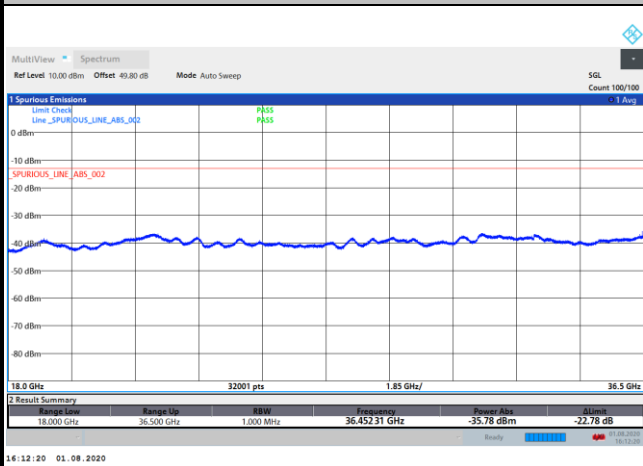
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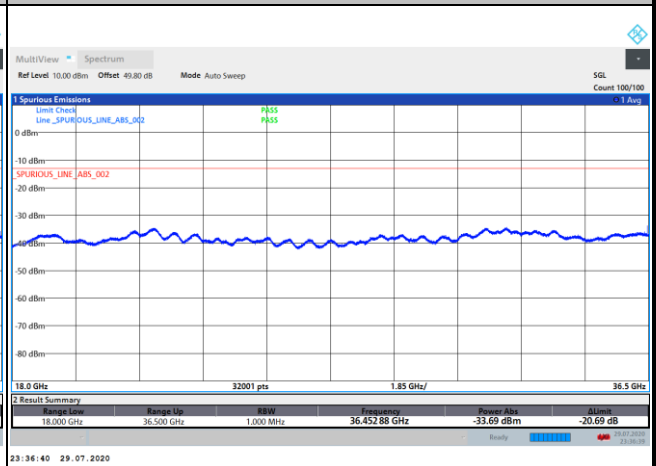
DFT-s-OFDM Module 0

NR Band n260 QPSK (18-40GHz)

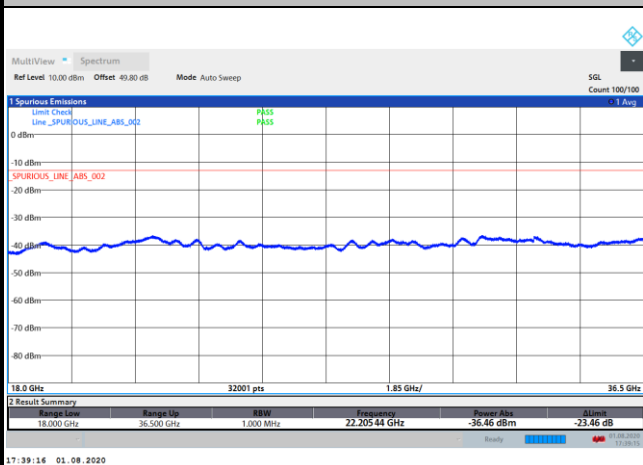
Lowest Channel / 50MHz



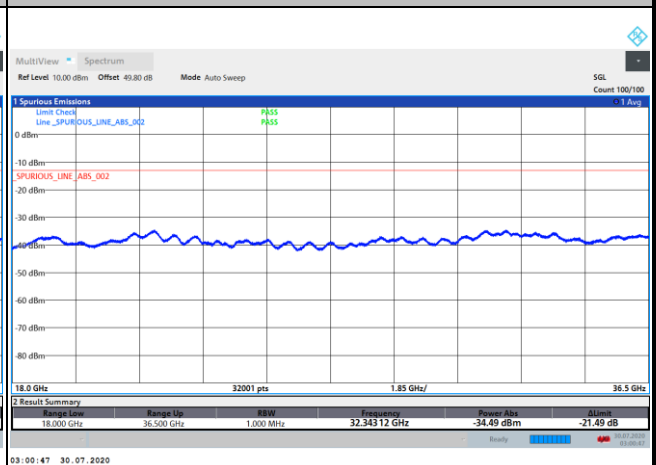
Lowest Channel / 100MHz



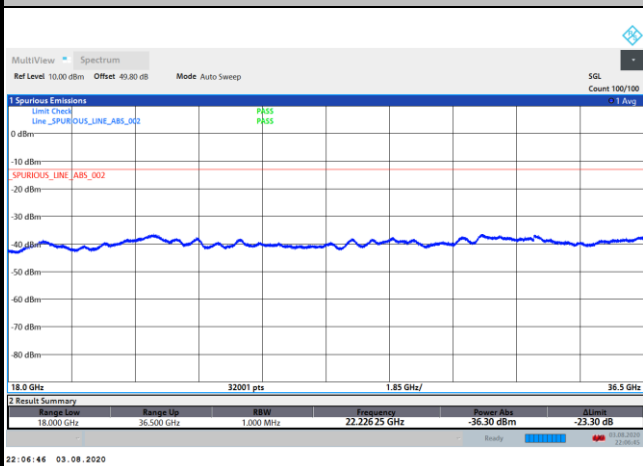
Middle Channel / 50MHz



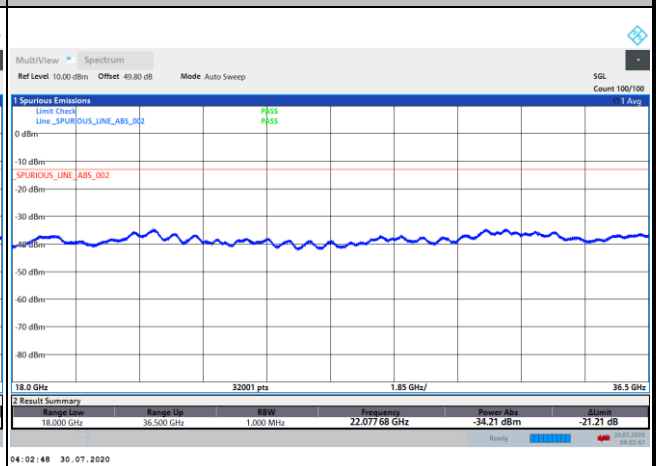
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

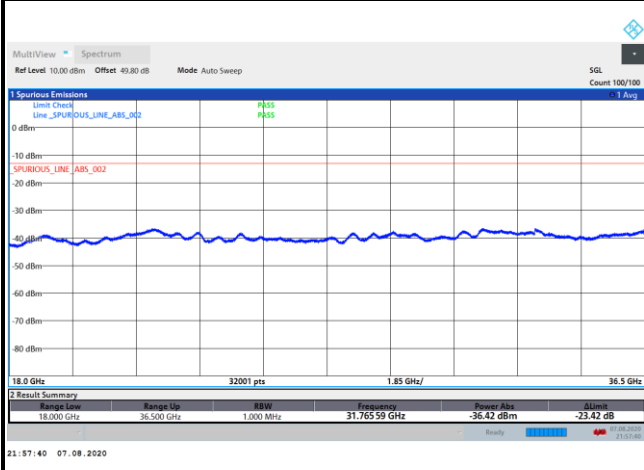




DFT-s-OFDM Module 0

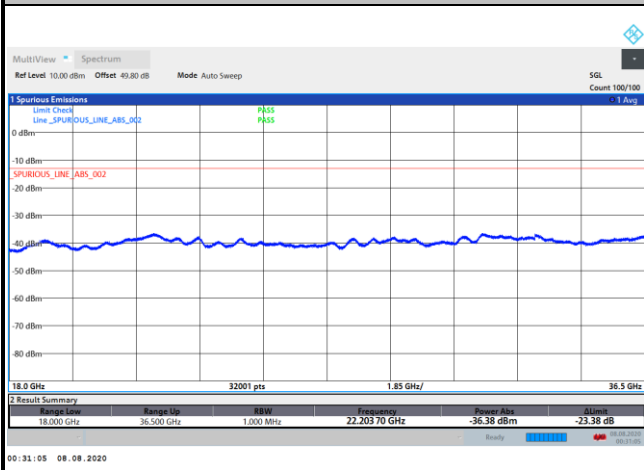
NR Band n260 QPSK (18-40GHz)

Lowest Channel / 200MHz



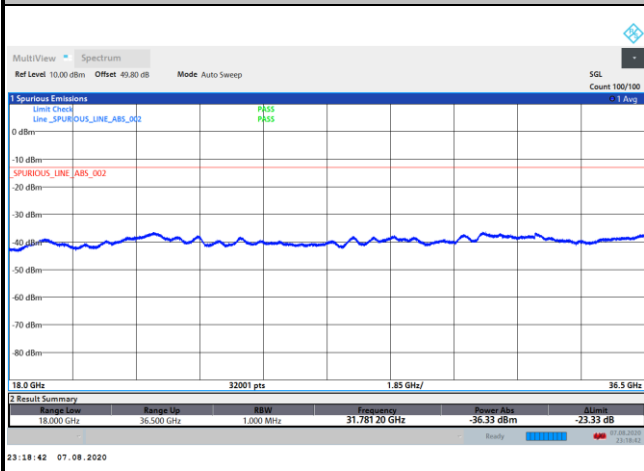
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



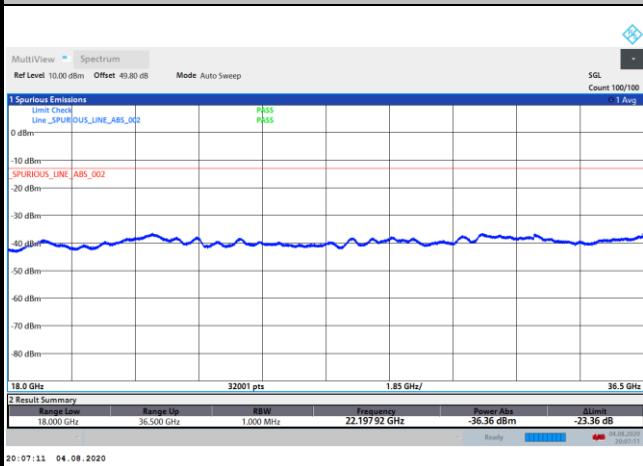
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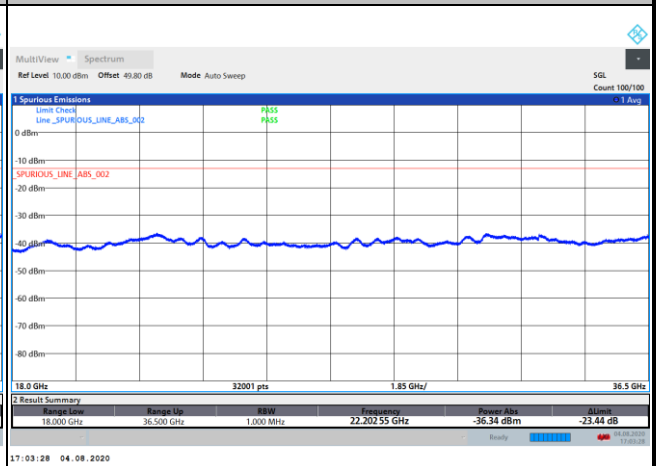
DFT-s-OFDM Module 1

NR Band n260 BPSK (18-40GHz)

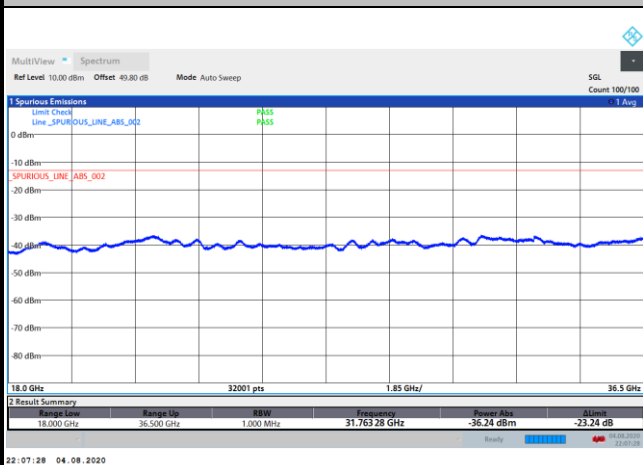
Lowest Channel / 50MHz



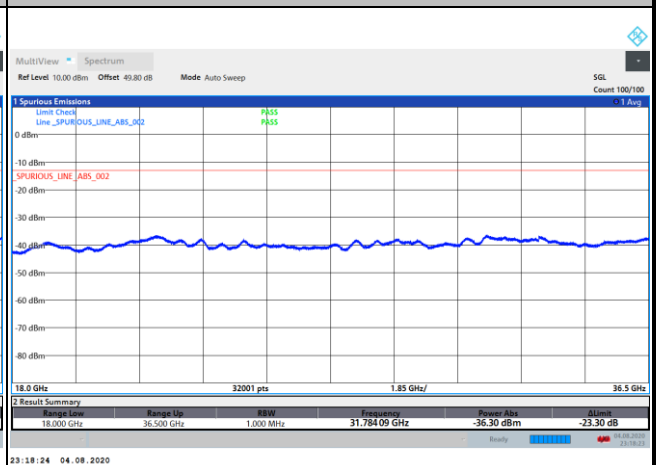
Lowest Channel / 100MHz



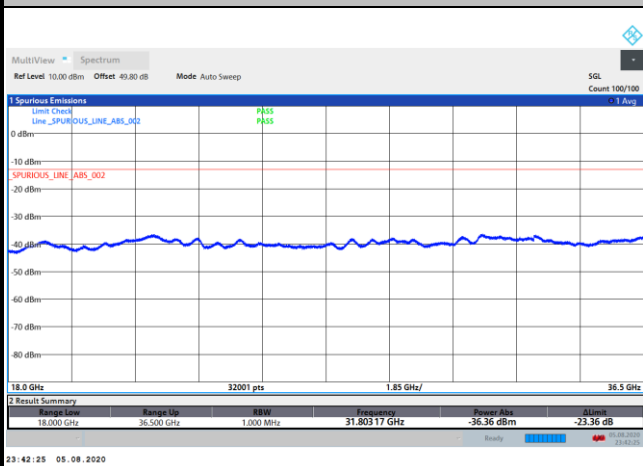
Middle Channel / 50MHz



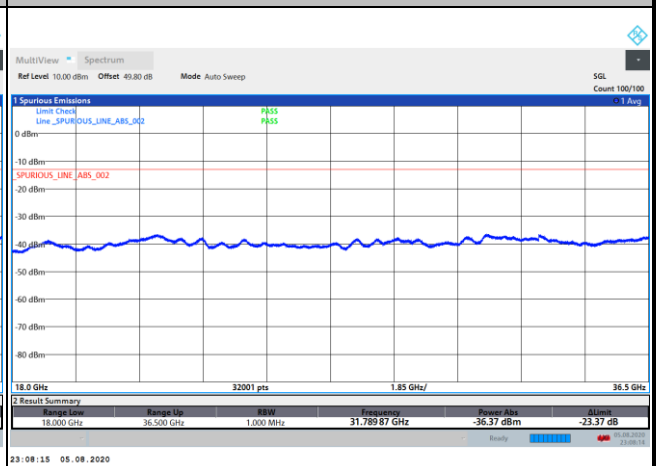
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

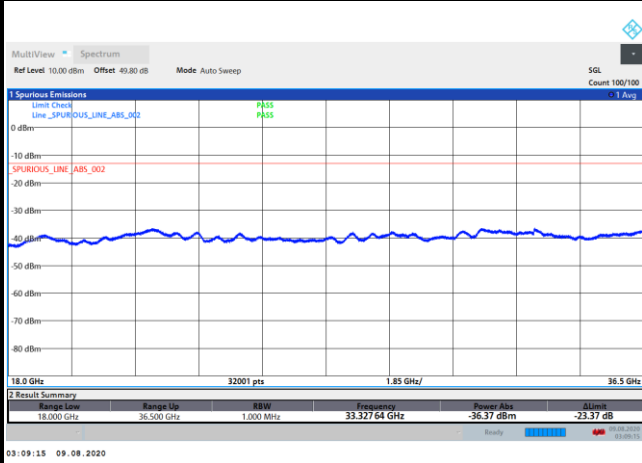




DFT-s-OFDM Module 1

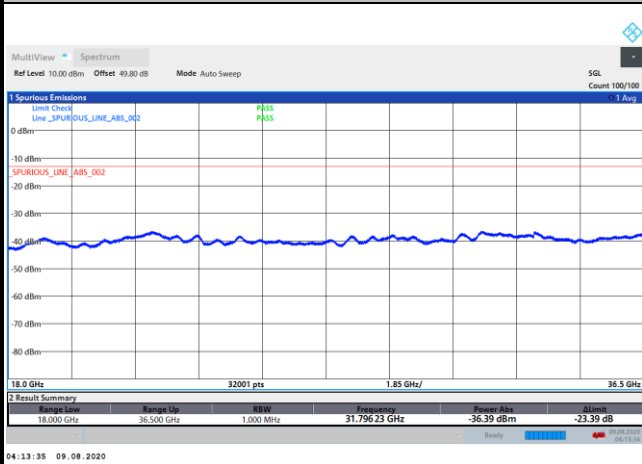
NR Band n260 BPSK (18-40GHz)

Lowest Channel / 200MHz



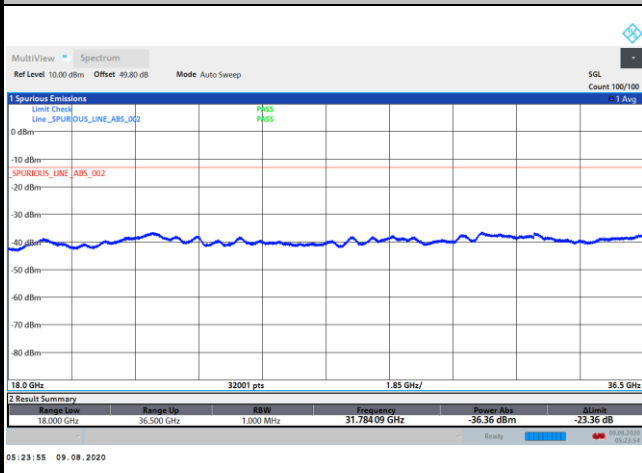
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



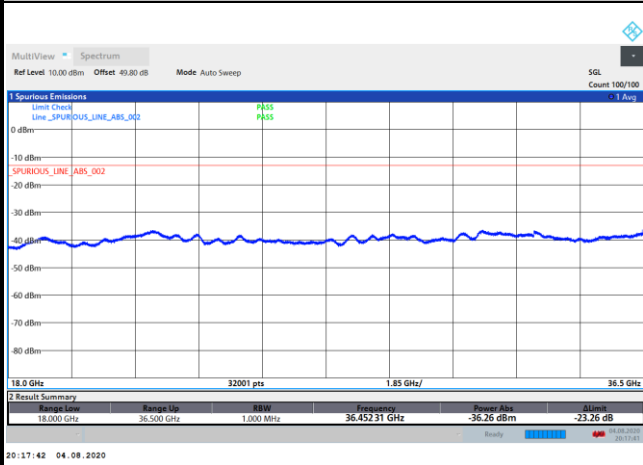
intentionally blank



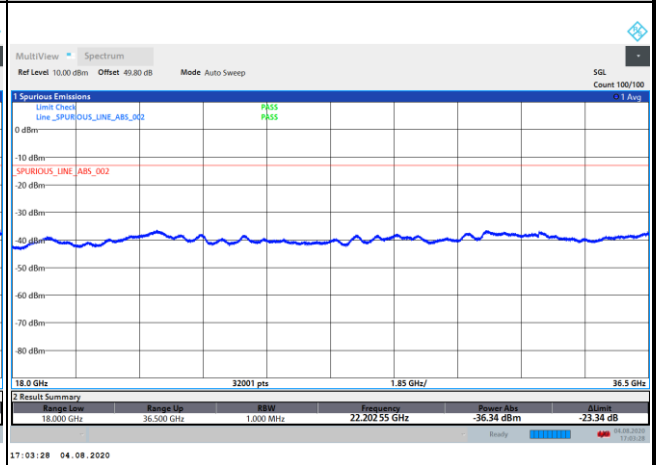
DFT-s-OFDM Module 1

NR Band n260 QPSK (18-40GHz)

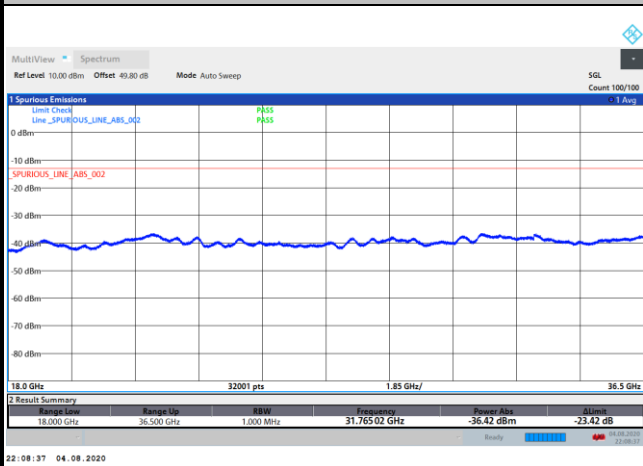
Lowest Channel / 50MHz



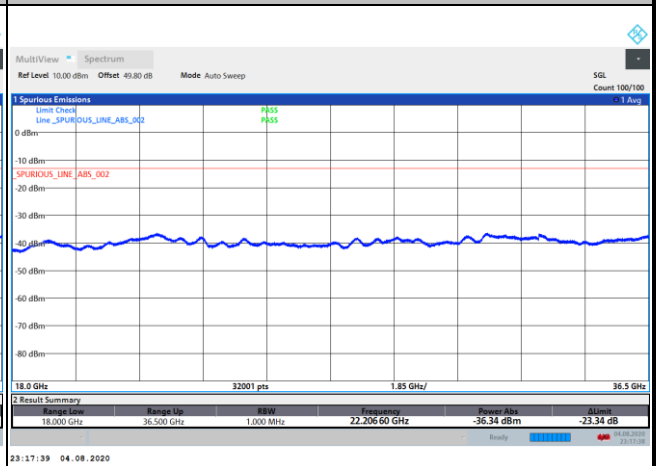
Lowest Channel / 100MHz



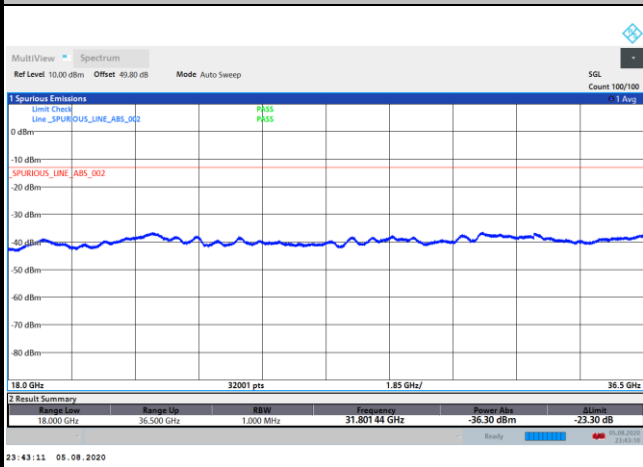
Middle Channel / 50MHz



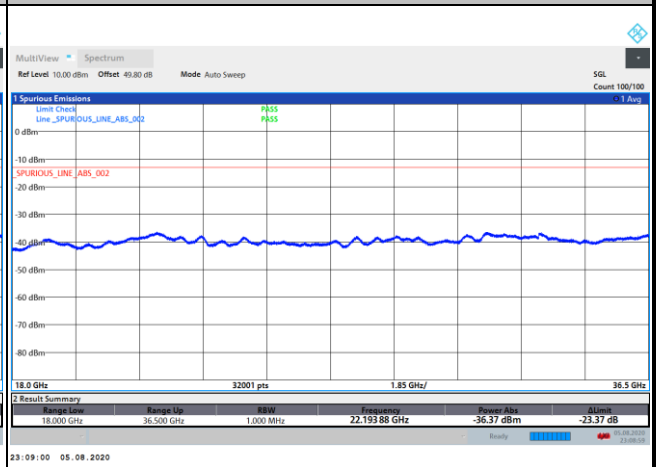
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz





DFT-s-OFDM Module 1

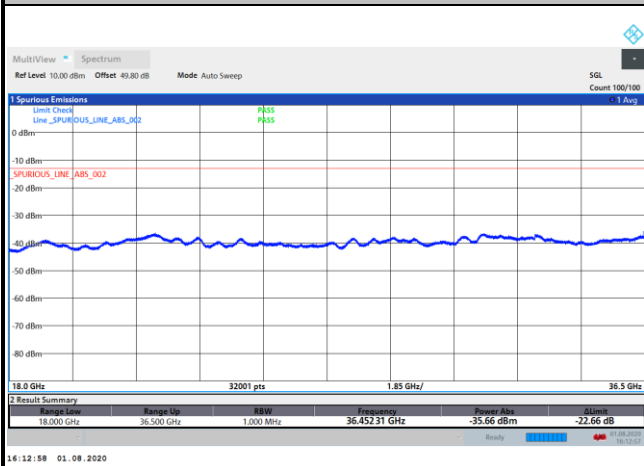
NR Band n260 QPSK (18-40GHz)	
<p>Lowest Channel / 200MHz</p> <p>intentionally blank</p>	
<p>Middle Channel / 200MHz</p> <p>intentionally blank</p>	
<p>Highest Channel / 200MHz</p> <p>intentionally blank</p>	



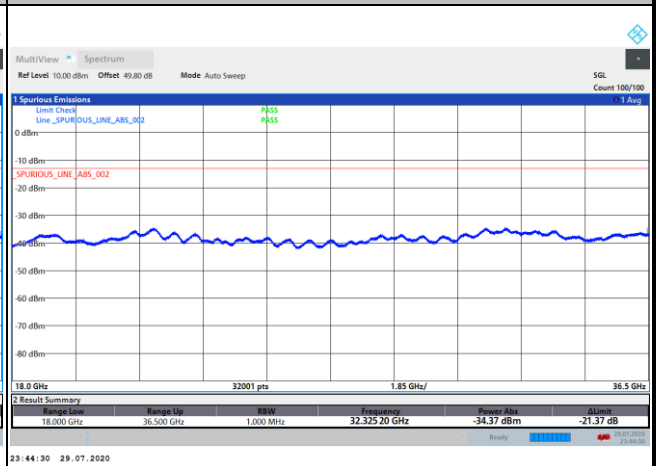
CP-OFDM Module 0

NR Band n260 QPSK (18-40GHz)

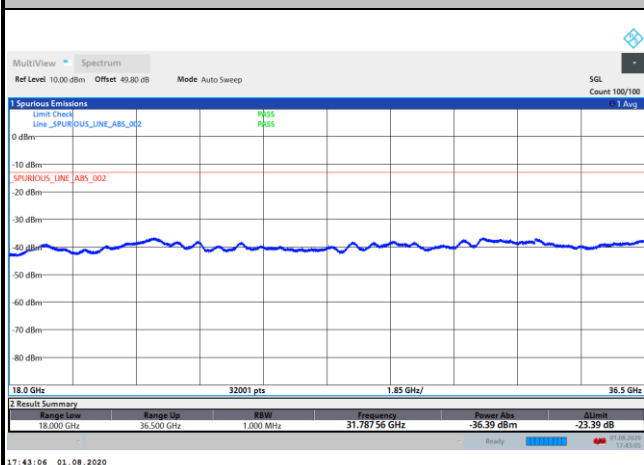
Lowest Channel / 50MHz



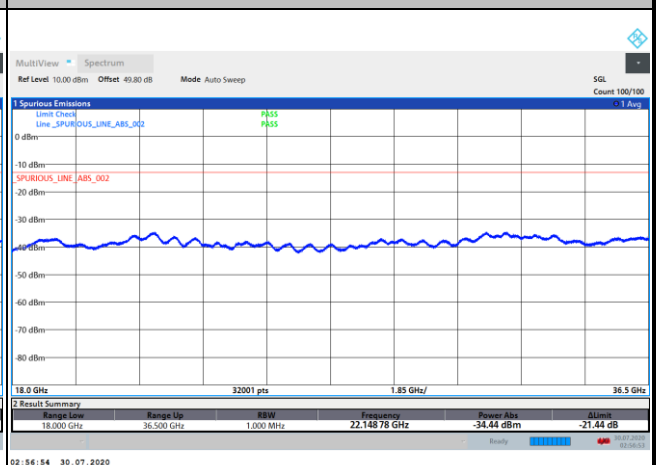
Lowest Channel / 100MHz



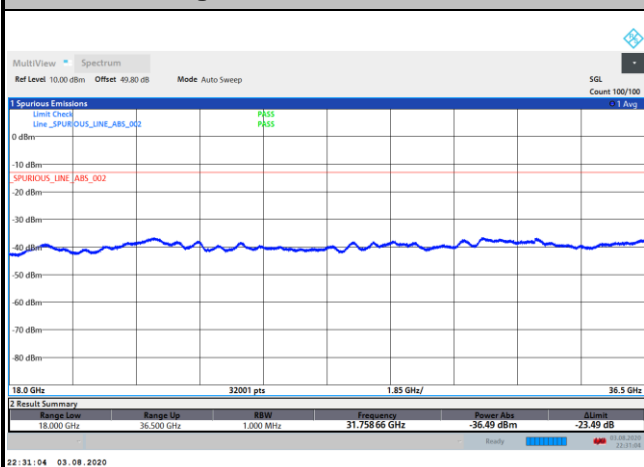
Middle Channel / 50MHz



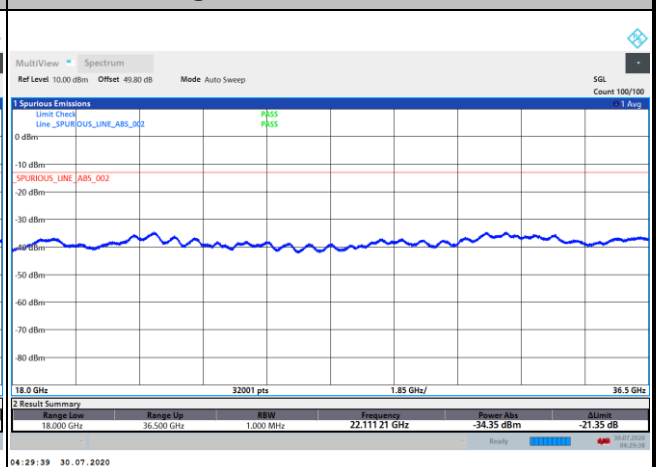
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz





CP-OFDM Module 0

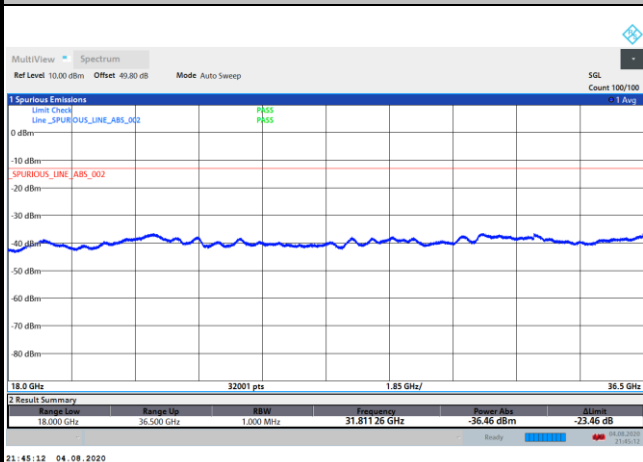
NR Band n260 QPSK (18-40GHz)	
<p>Lowest Channel / 200MHz</p> <p>intentionally blank</p>	
<p>Middle Channel / 200MHz</p> <p>intentionally blank</p>	
<p>Highest Channel / 200MHz</p> <p>intentionally blank</p>	



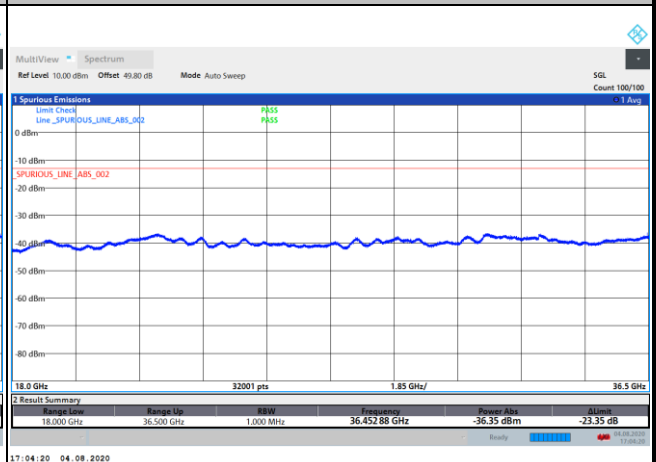
CP-OFDM Module 1

NR Band n260 QPSK (18-40GHz)

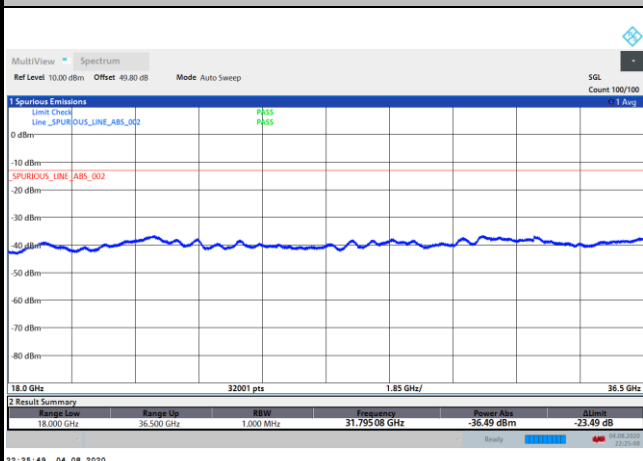
Lowest Channel / 50MHz



Lowest Channel / 100MHz



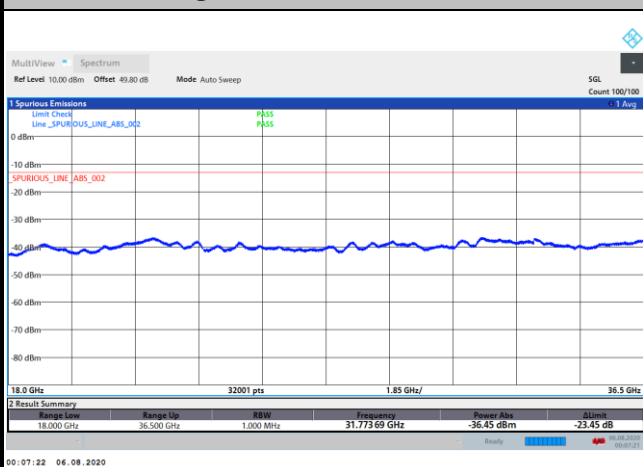
Middle Channel / 50MHz



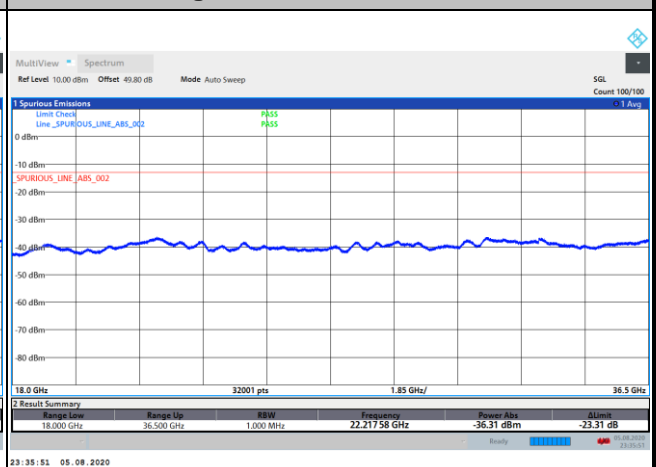
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



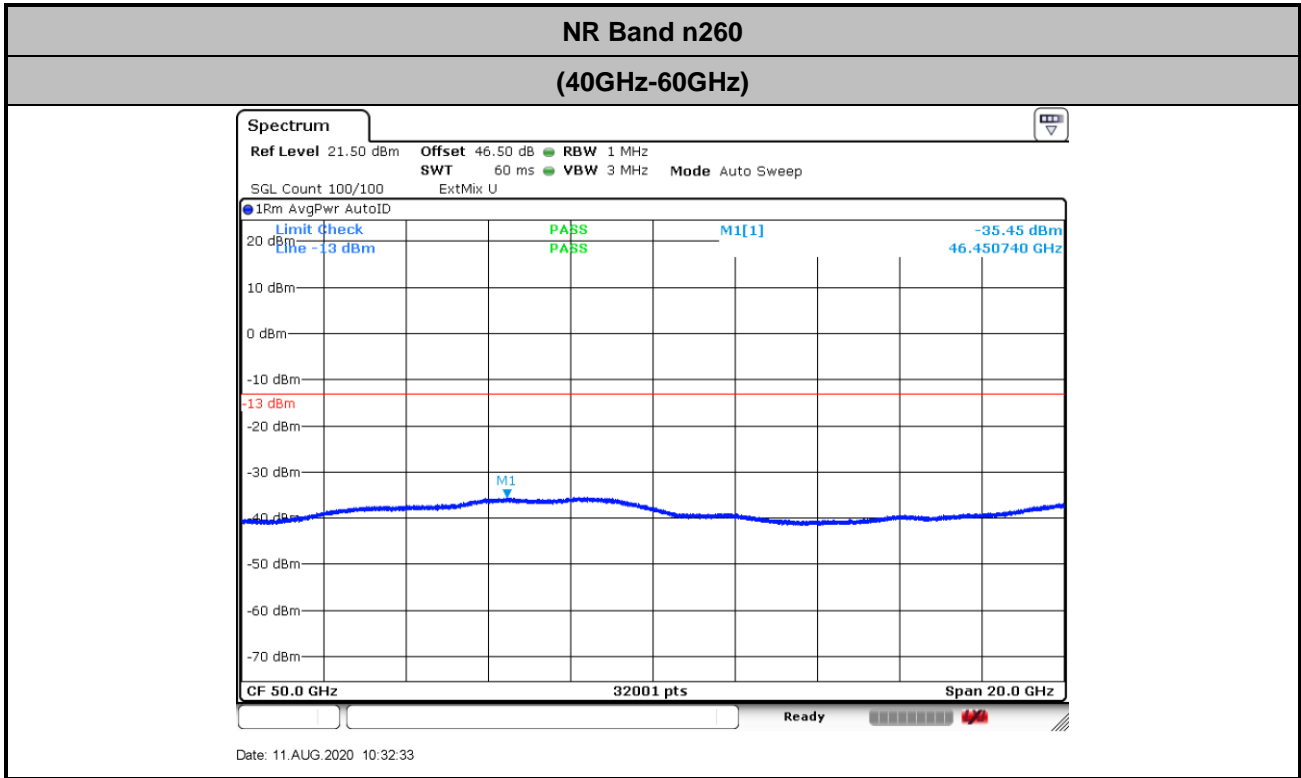


CP-OFDM Module 1

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 200MHz	
<p>intentionally blank</p>	
Middle Channel / 200MHz	
<p>intentionally blank</p>	
Highest Channel / 200MHz	
<p>intentionally blank</p>	

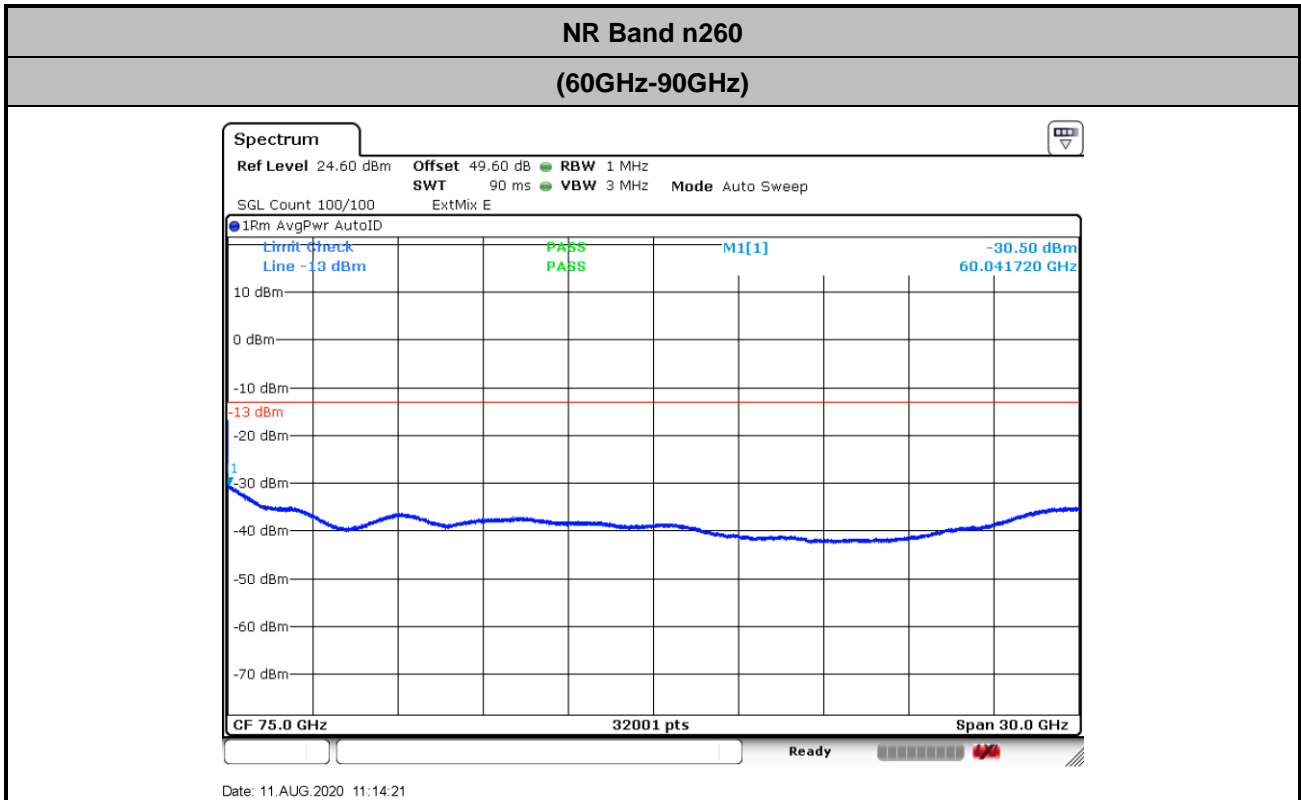


There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.

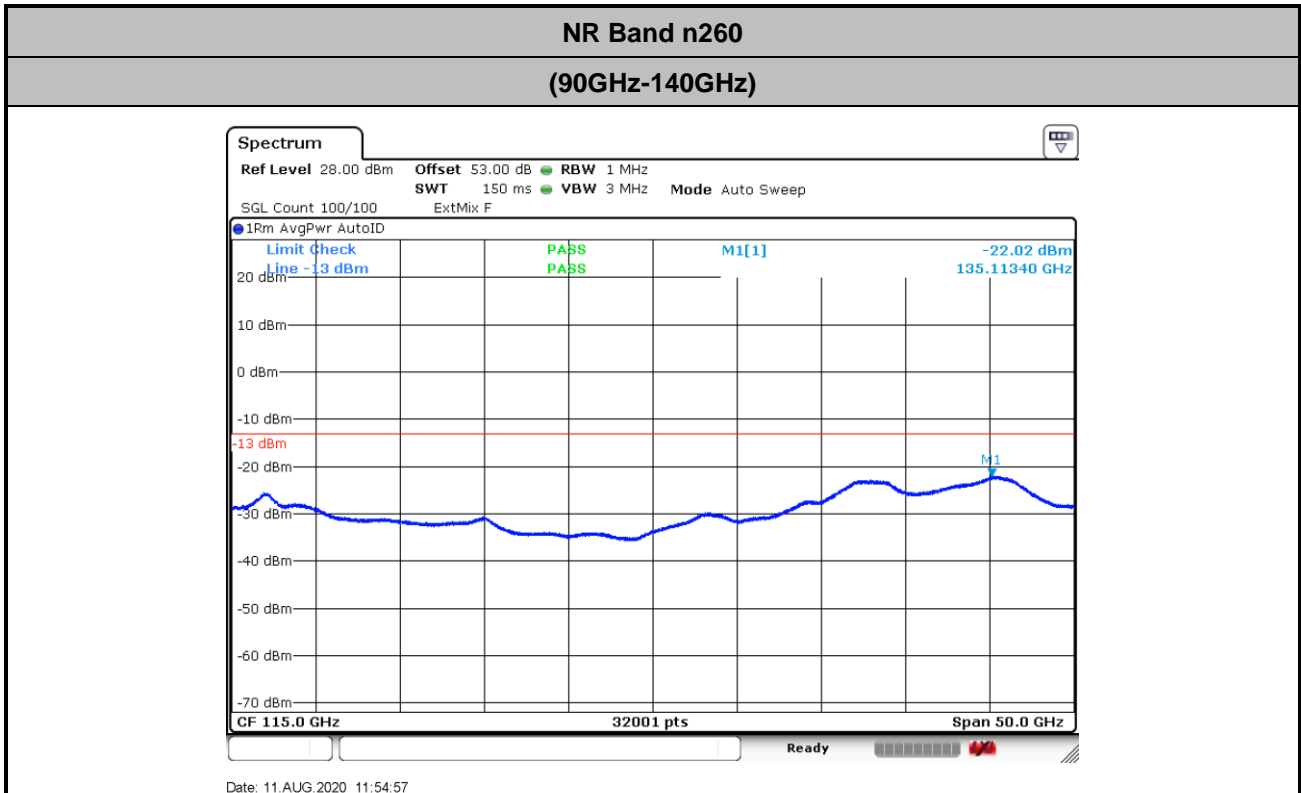


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

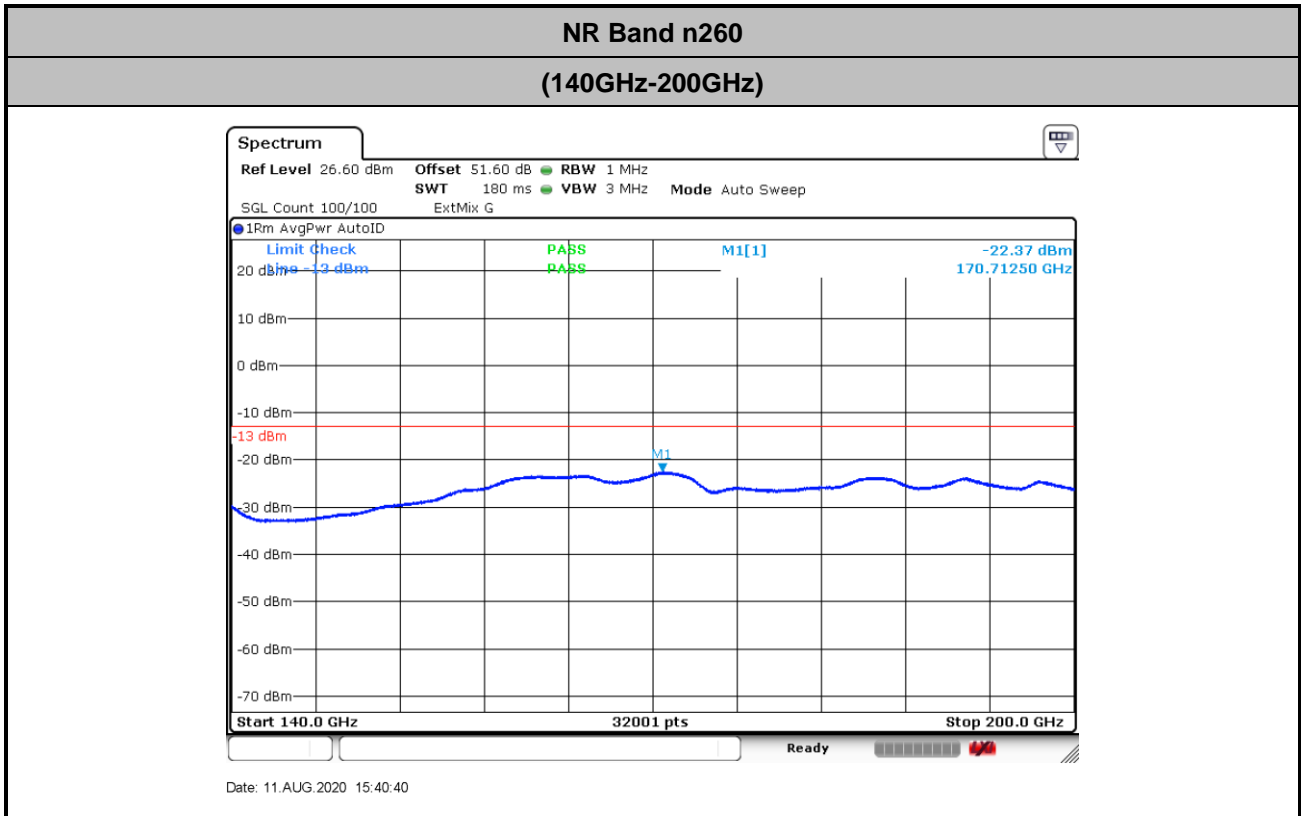
$$= 42.1 + 2.2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}$$



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



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



$$Offset = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 53.4 + 2 + 107 + 20\log(0.5) - 104.8 = 51.6 \text{ (dB)}$$



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	

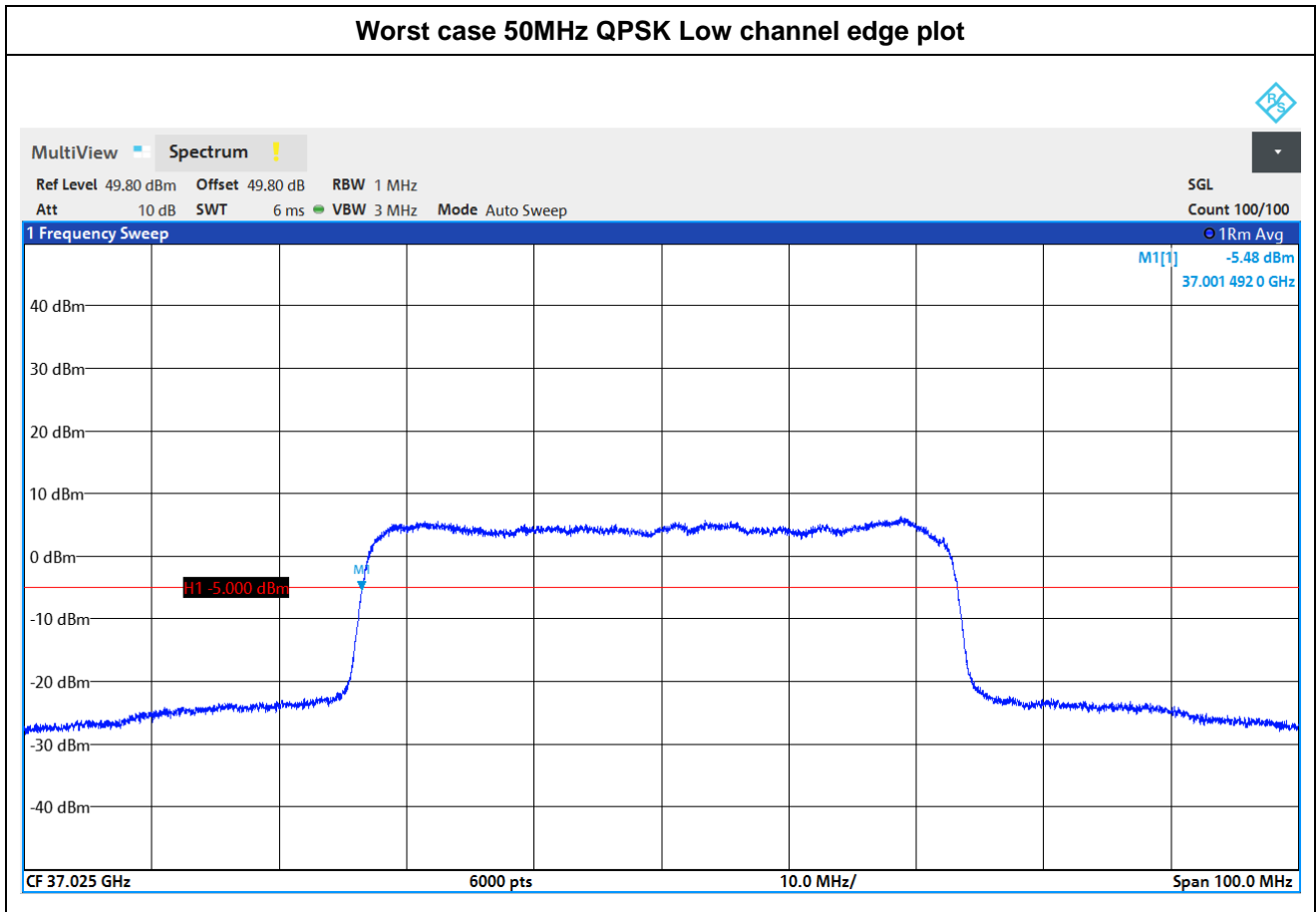
Note:

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	37,001,492,000	1,492,000	268.700	Compliance
100MHz	37,002,150,000	2,150,000	268.700	Compliance
200MHz	37,003,967,000	3,967,000	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	39,998,025,000	1,795,000	268.700	Compliance
100MHz	39,995,050,000	4,950,000	268.700	Compliance
200MHz	39,993,500,000	6,500,000	268.700	Compliance





NR Band n260 AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n260 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.36	45.27	45.54	45.30	90.38	90.45	90.40	90.45	187.49	187.33	187.16	187.64
Middle CH	45.37	45.24	45.51	45.35	90.31	90.32	90.35	90.37	188.77	188.65	188.54	188.37
Highest CH	45.59	45.52	45.27	45.39	90.42	90.82	90.65	90.79	188.68	188.31	188.25	188.17

Mode	DFT-s-OFDM Module 1 NR Band n260 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.51	45.48	45.29	45.42	90.48	90.81	90.39	90.89	187.94	187.92	187.92	187.97
Middle CH	45.26	45.83	45.50	45.57	90.57	90.84	90.35	91.08	188.89	188.96	188.98	189.02
Highest CH	45.34	45.96	45.66	45.67	90.78	91.23	90.74	91.28	189.33	189.24	189.15	189.09

Mode	CP-OFDM Module 0 NR Band n260 : 99%OBW(MHz)									
BW	50MHz			100MHz			200MHz			
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
Lowest CH	45.52	45.40	45.37	92.98	92.70	93.11	189.89	189.34	189.16	
Middle CH	45.59	45.43	45.32	92.84	92.41	92.75	190.25	190.43	190.39	
Highest CH	45.43	45.48	45.20	93.28	93.10	93.42	190.87	190.85	191.01	

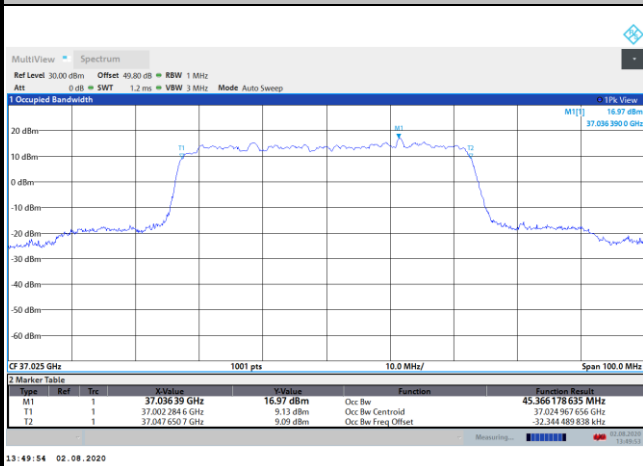
Mode	CP-OFDM Module 1 NR Band n260 : 99%OBW(MHz)									
BW	50MHz			100MHz			200MHz			
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
Lowest CH	45.39	45.41	45.47	93.20	93.19	92.90	188.40	188.76	188.85	
Middle CH	45.62	45.60	45.35	93.38	93.27	92.86	190.85	191.16	192.02	
Highest CH	45.82	45.78	45.49	93.87	93.66	93.42	191.88	192.07	192.84	



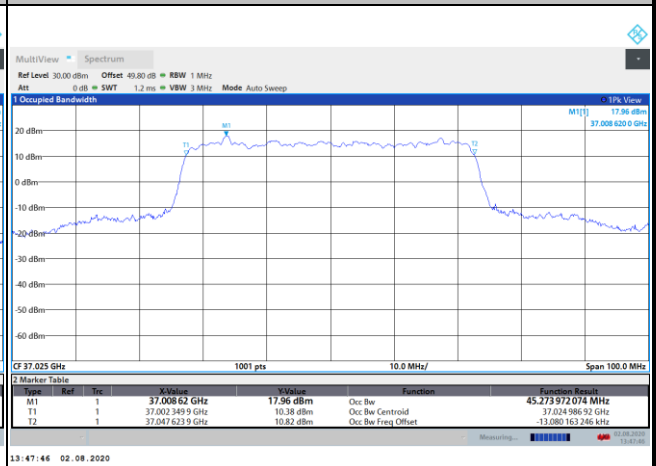
DFT-s-OFDM Module 0

NR Band n260

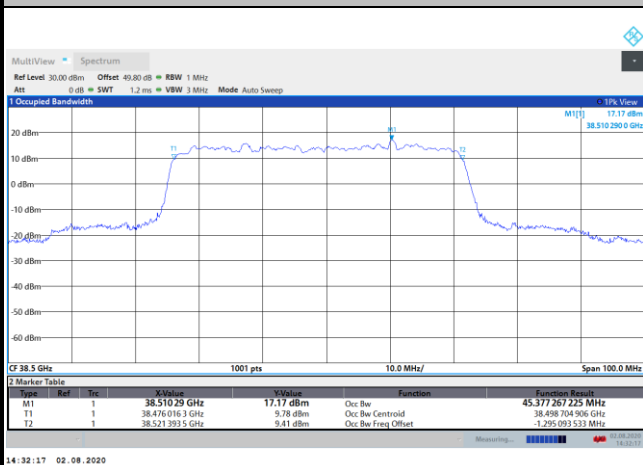
Lowest Channel / 50MHz / BPSK



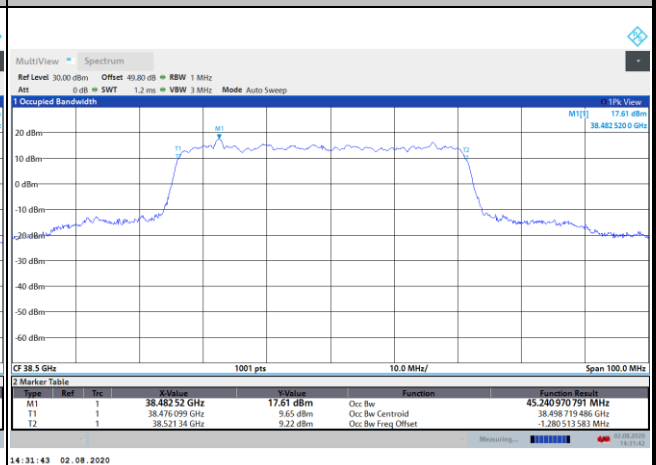
Lowest Channel / 50MHz / QPSK



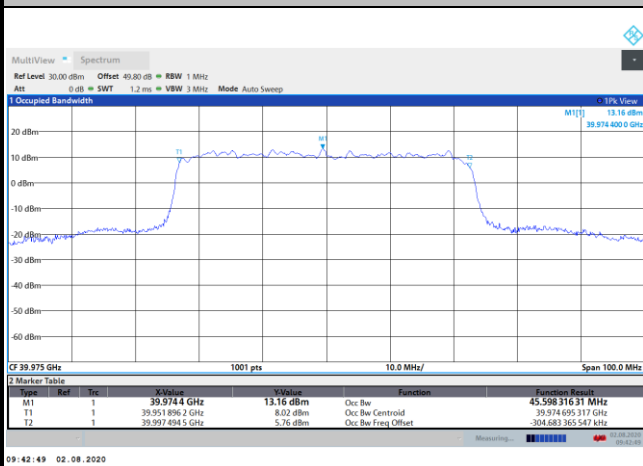
Middle Channel / 50MHz / BPSK



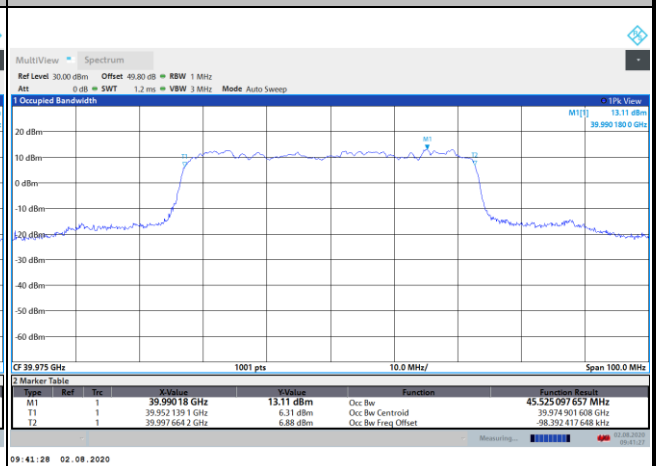
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

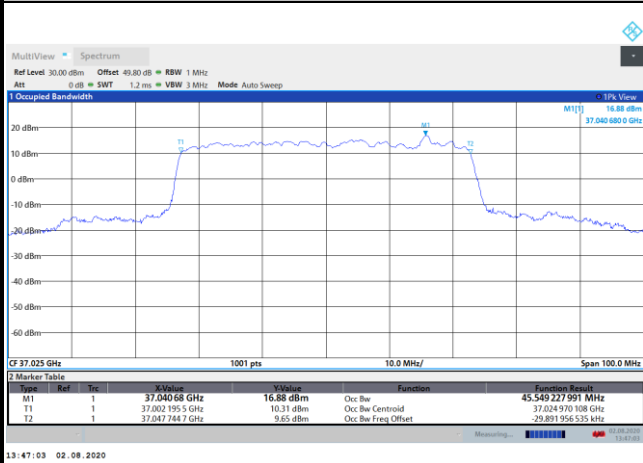




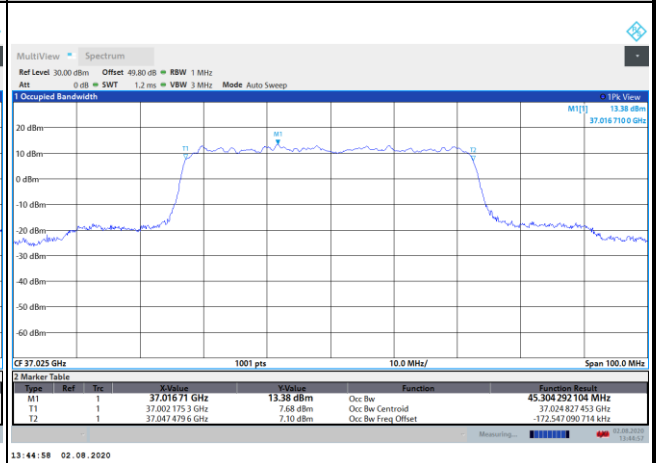
DFT-s-OFDM Module 0

NR Band n260

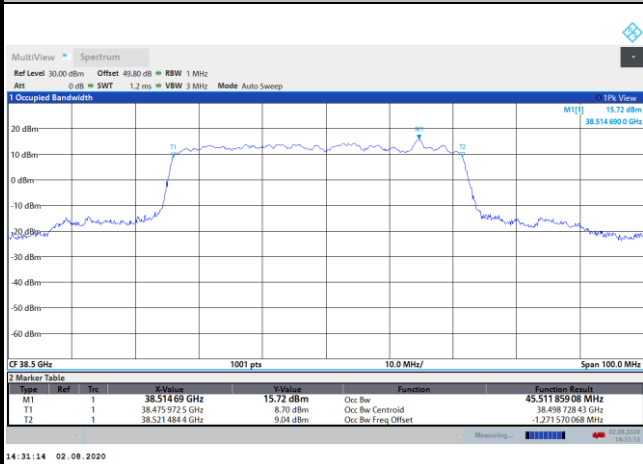
Lowest Channel / 50MHz / 16QAM



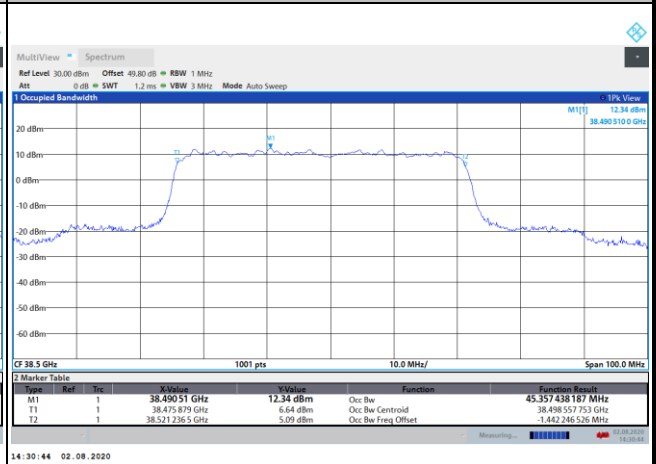
Lowest Channel / 50MHz / 64QAM



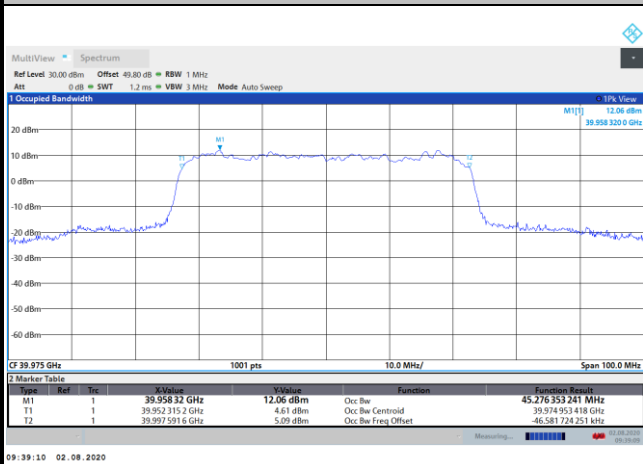
Middle Channel / 50MHz / 16QAM



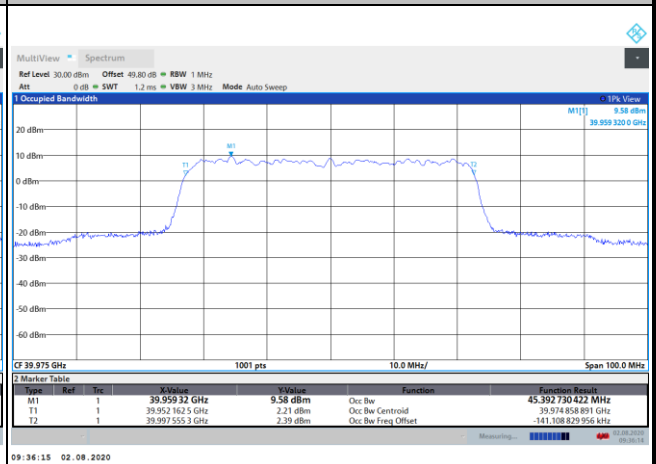
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

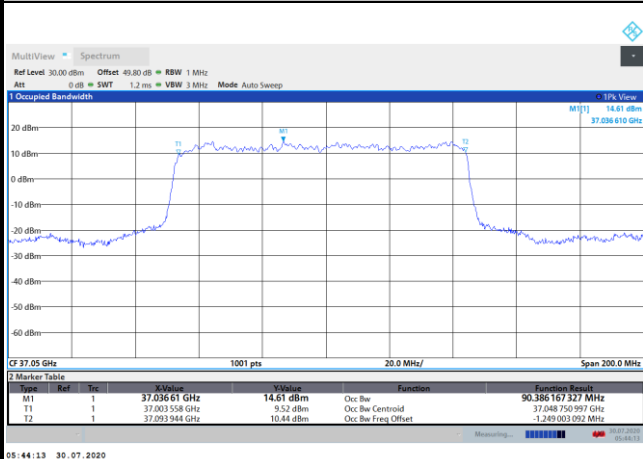




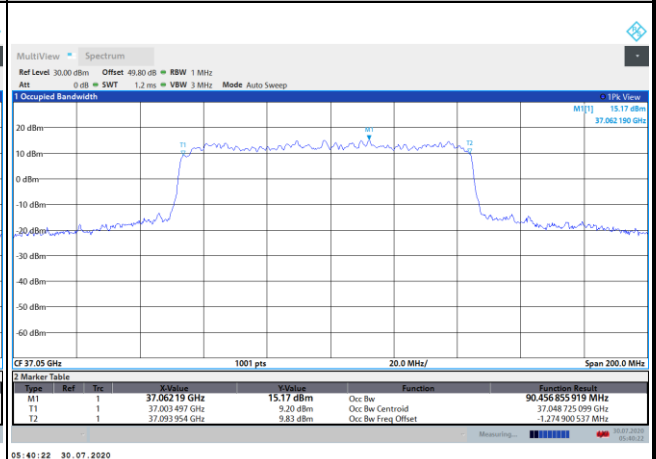
DFT-s-OFDM Module 0

NR Band n260

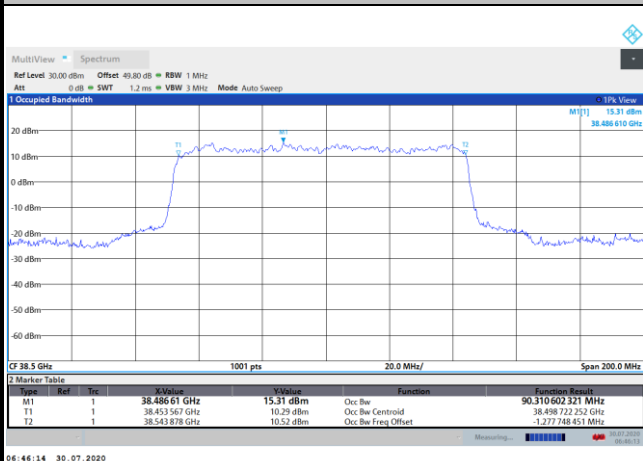
Lowest Channel / 100MHz / BPSK



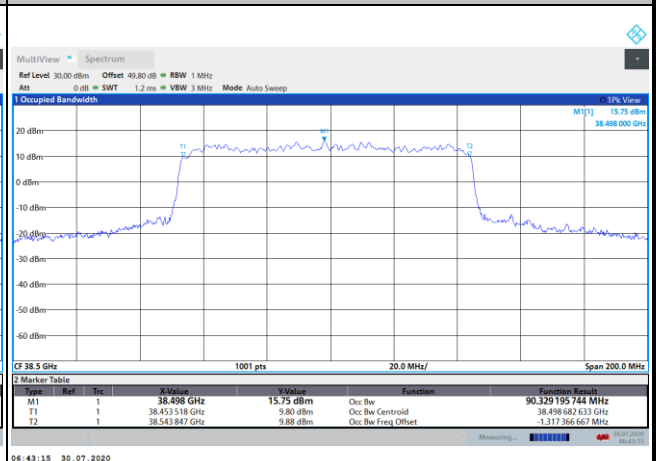
Lowest Channel / 100MHz / QPSK



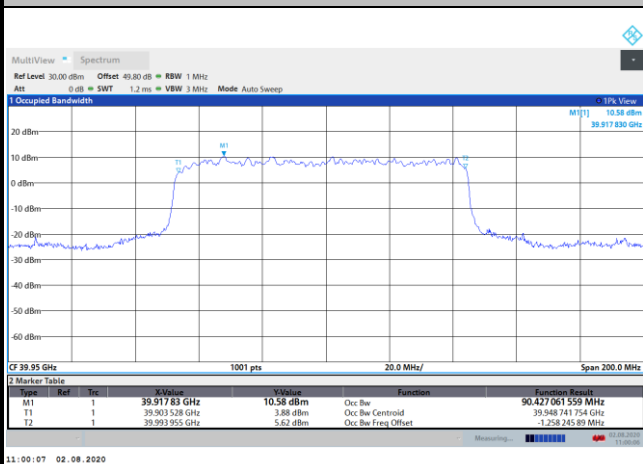
Middle Channel / 100MHz / BPSK



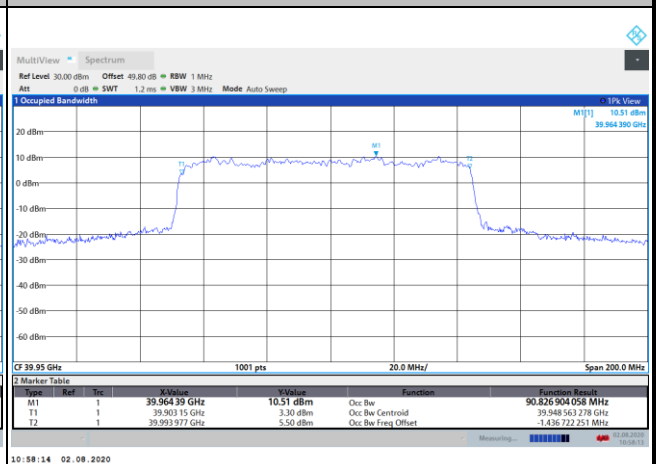
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

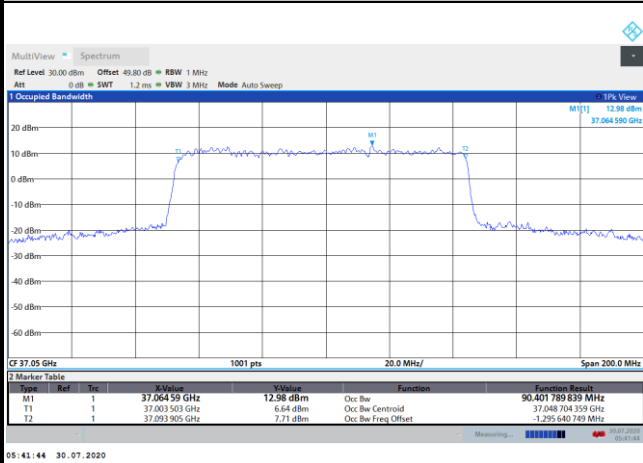




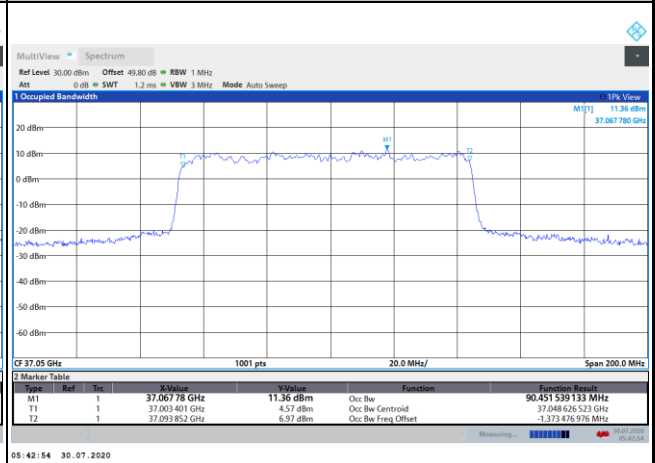
DFT-s-OFDM Module 0

NR Band n260

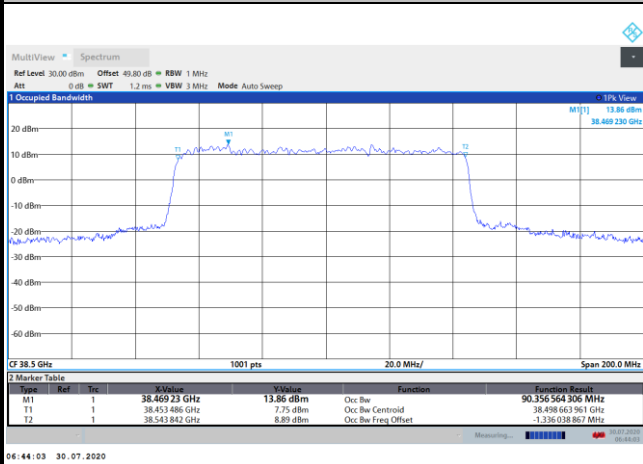
Lowest Channel / 100MHz / 16QAM



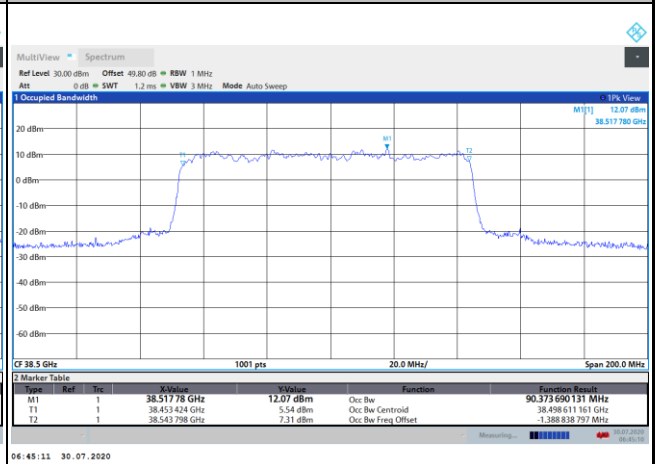
Lowest Channel / 100MHz / 64QAM



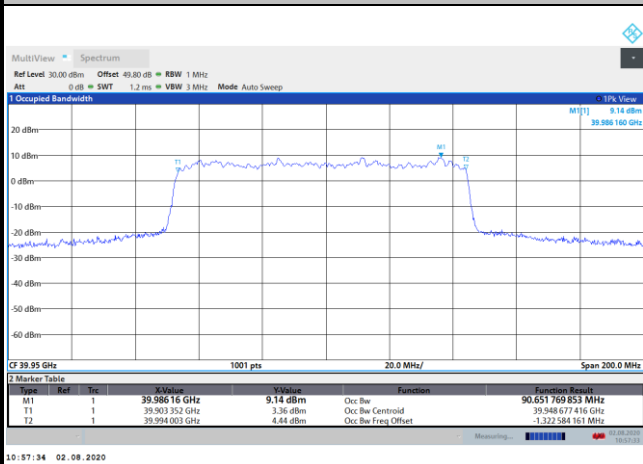
Middle Channel / 100MHz / 16QAM



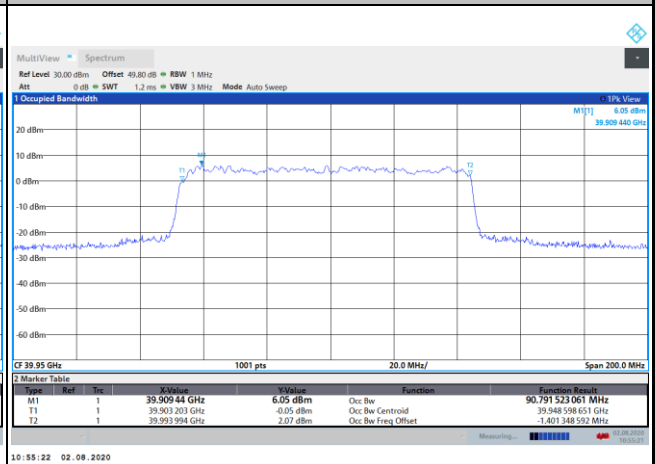
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

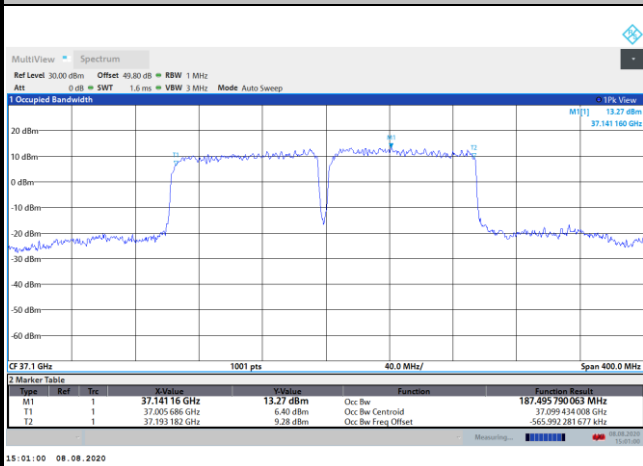




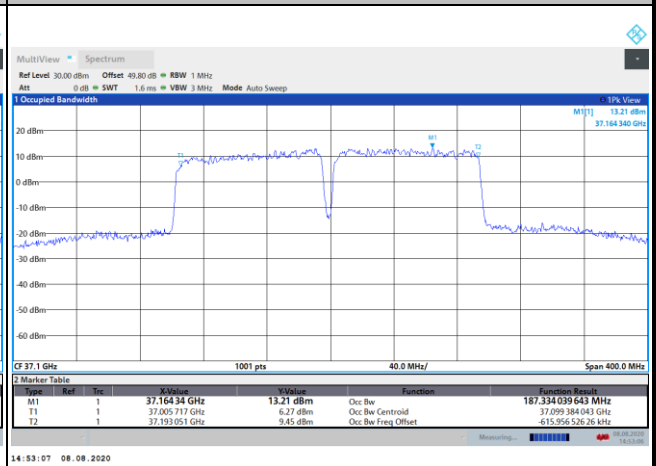
DFT-s-OFDM Module 0

NR Band n260

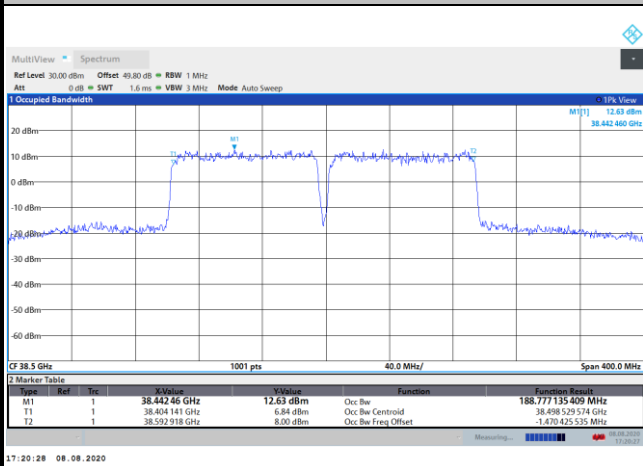
Lowest Channel / 200MHz / BPSK



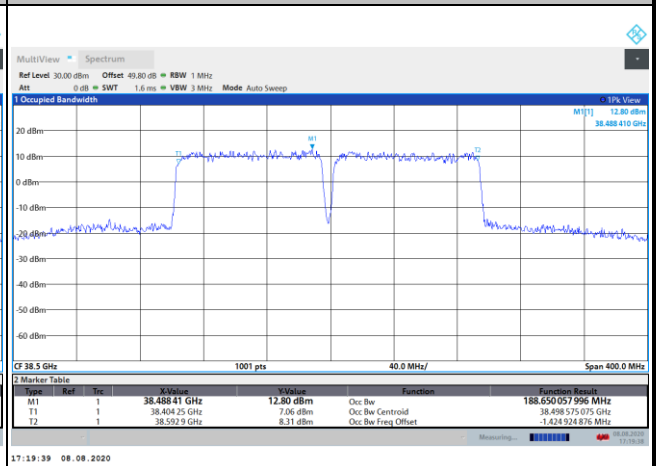
Lowest Channel / 200MHz / QPSK



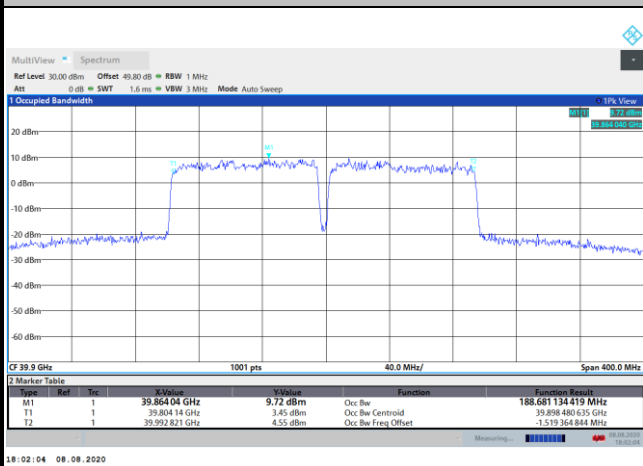
Middle Channel / 200MHz / BPSK



Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

