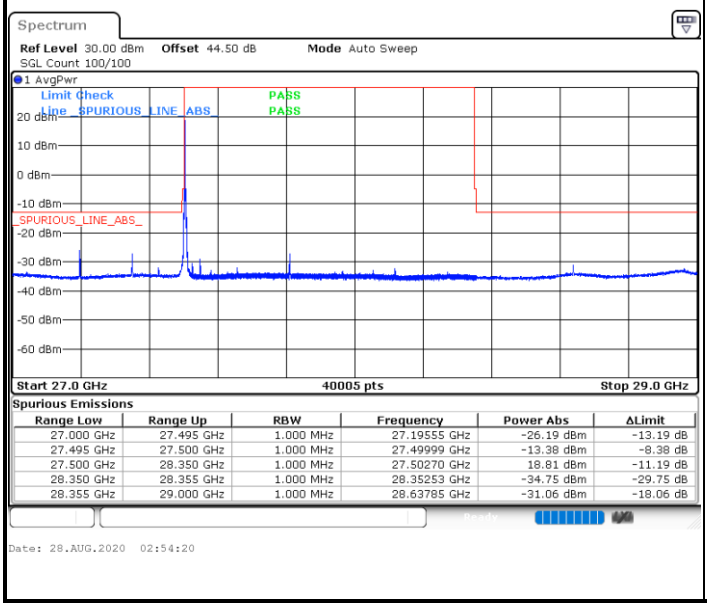
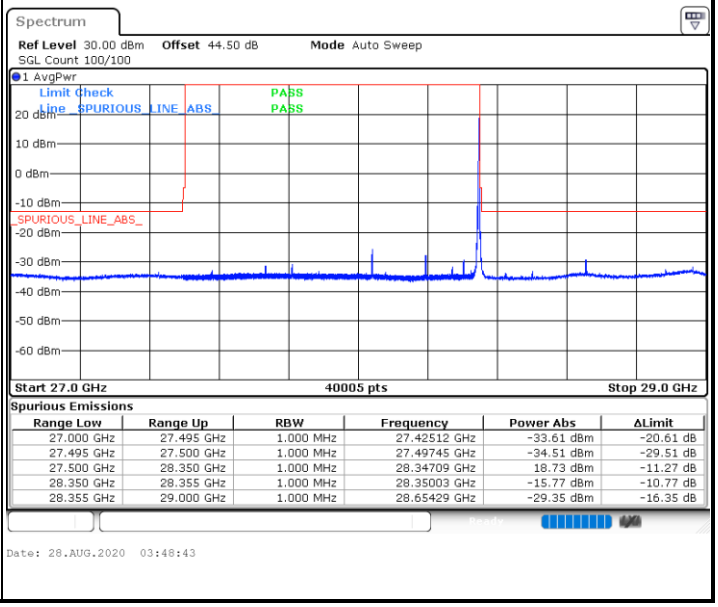
DFT-s-OFDM Module 1

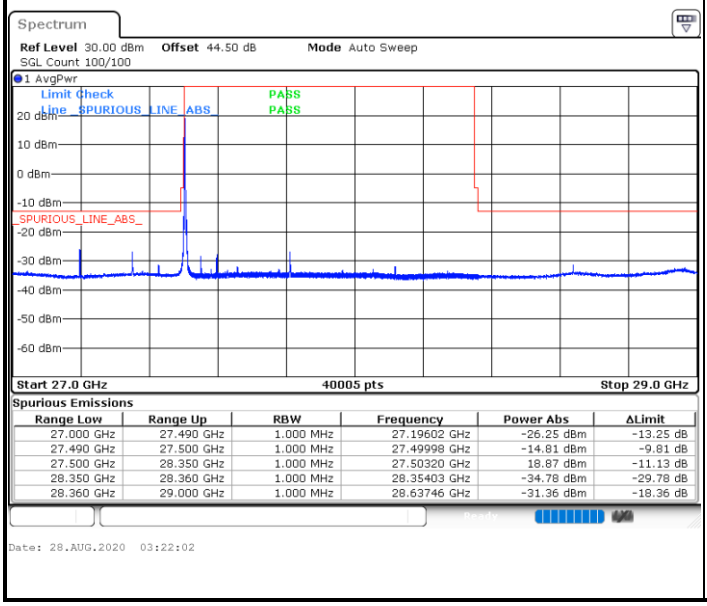
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

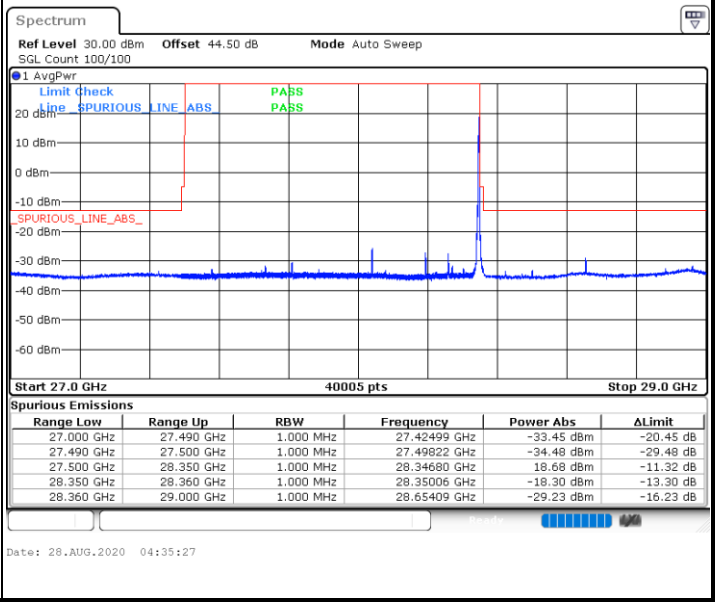




DFT-s-OFDM Module 1

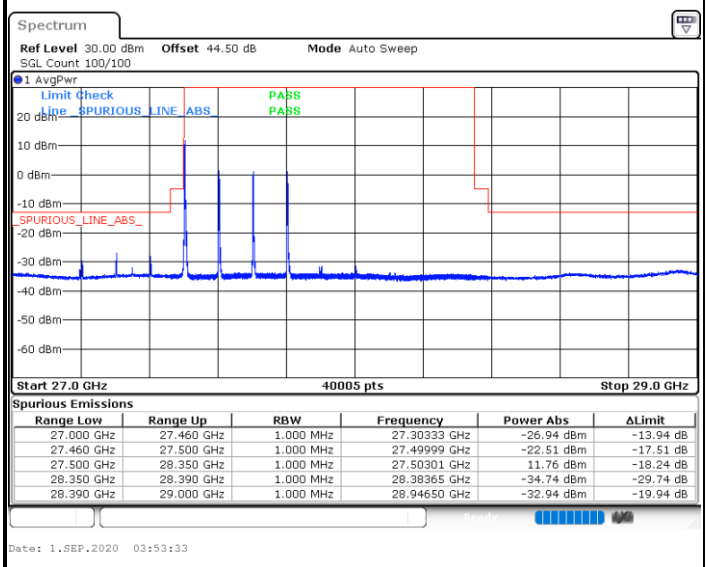
NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

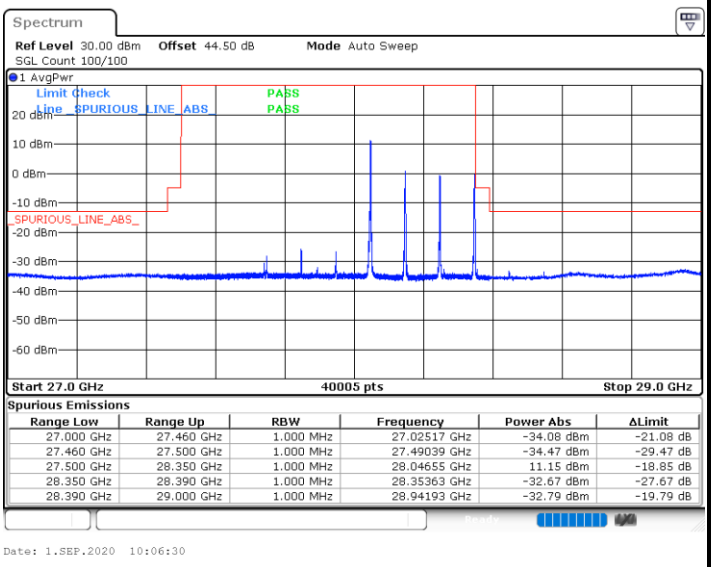




DFT-s-OFDM Module 1

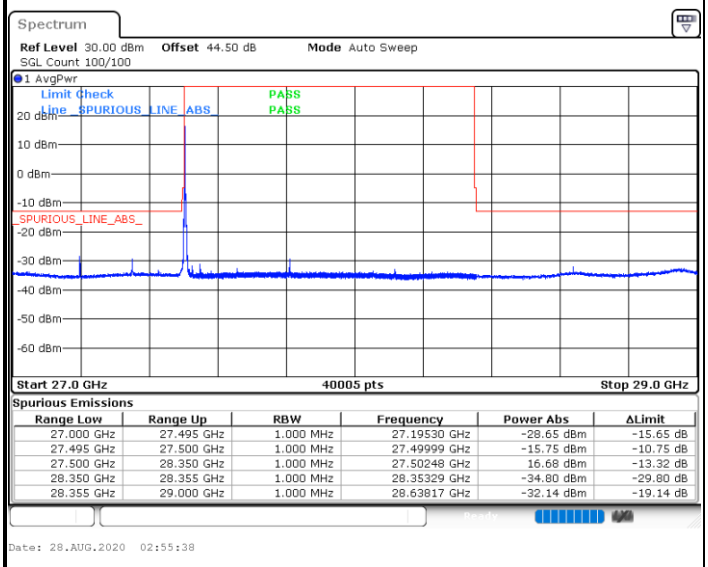
NR Band n261 / 400MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

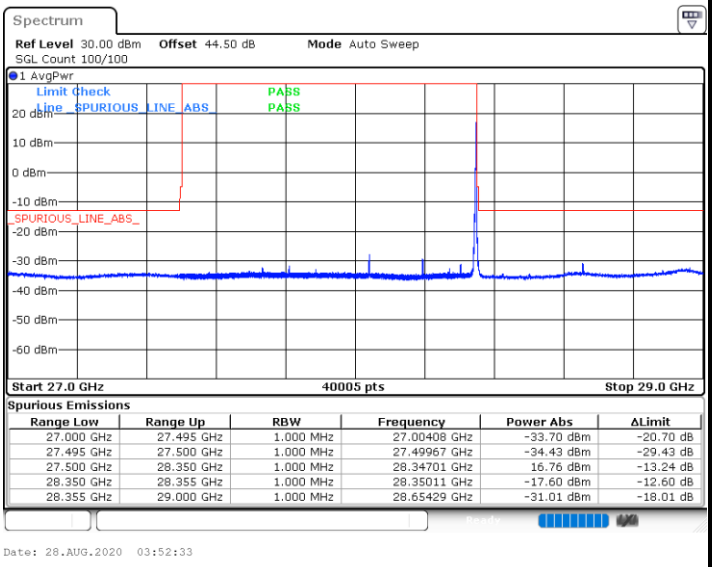




CP-OFDM Module 1

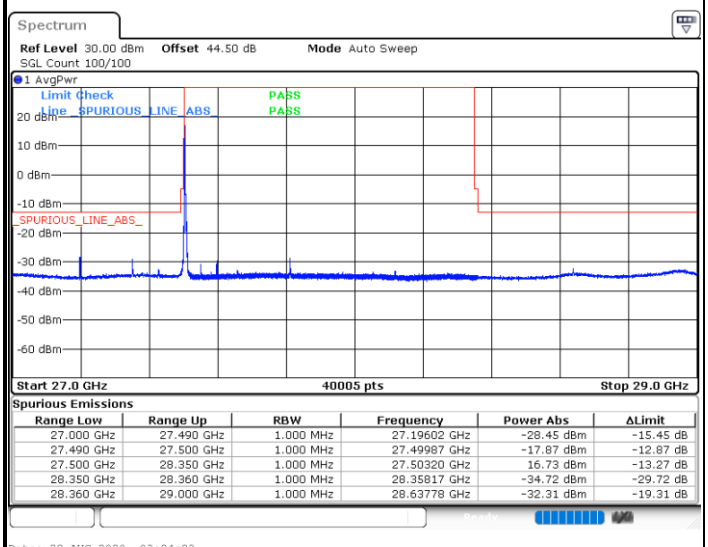
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

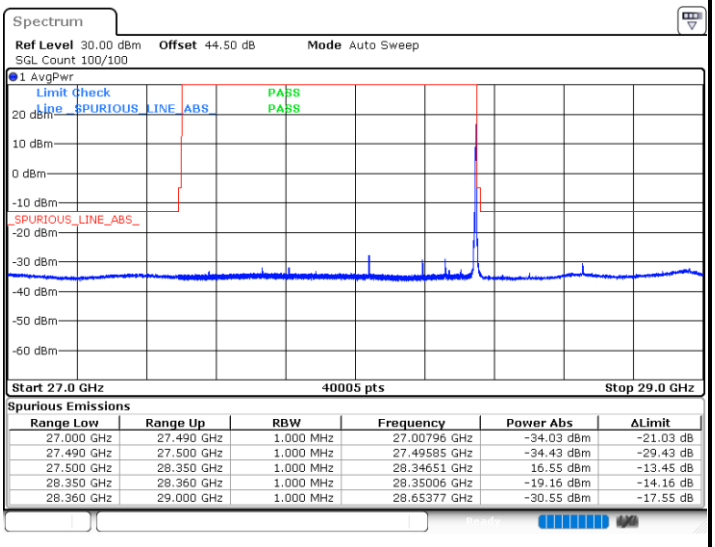




CP-OFDM Module 1

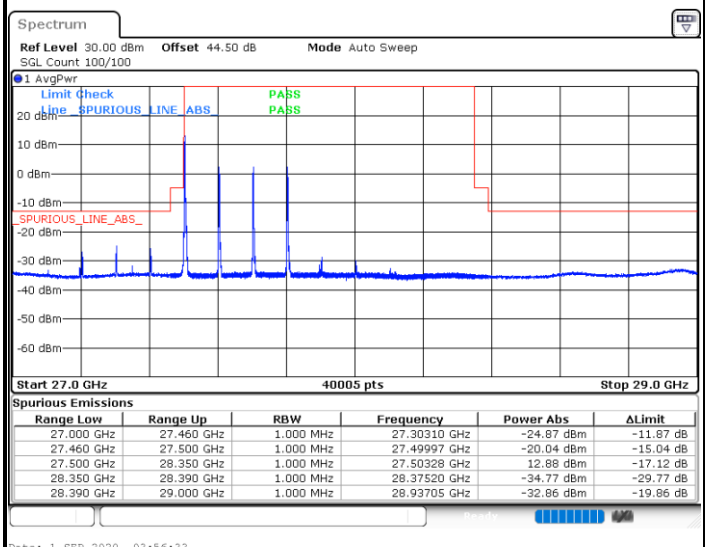
NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

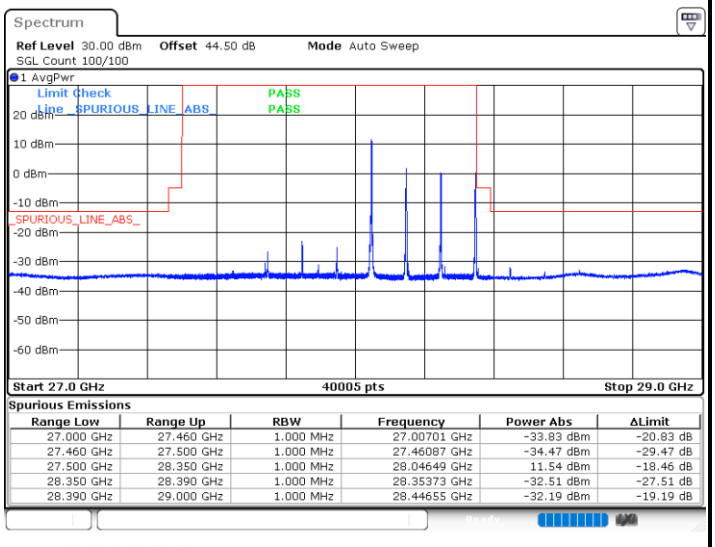




CP-OFDM Module 1

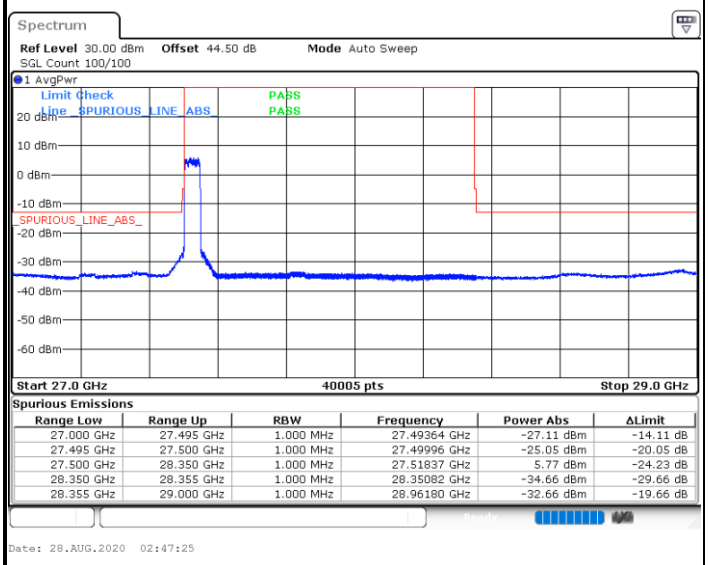
NR Band n261 / 400MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

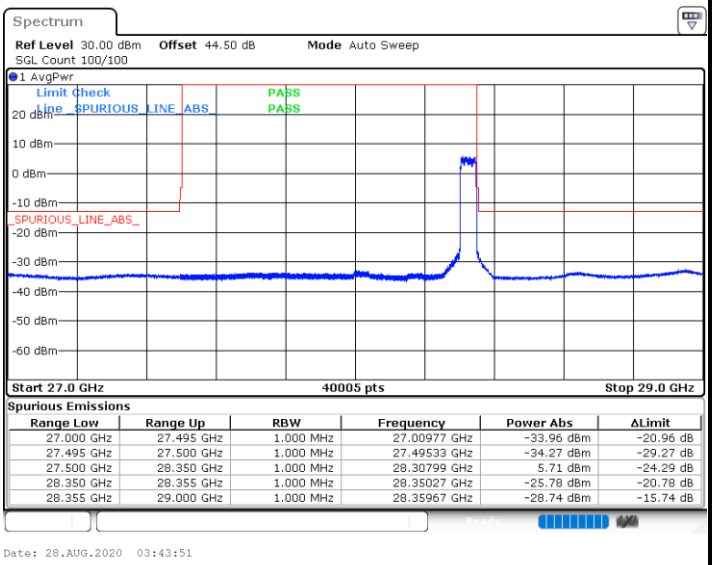




DFT-s-OFDM Module 1

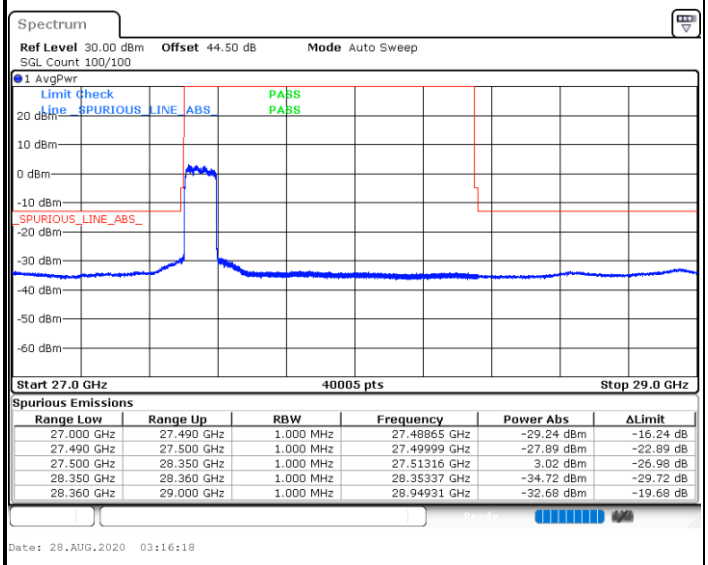
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

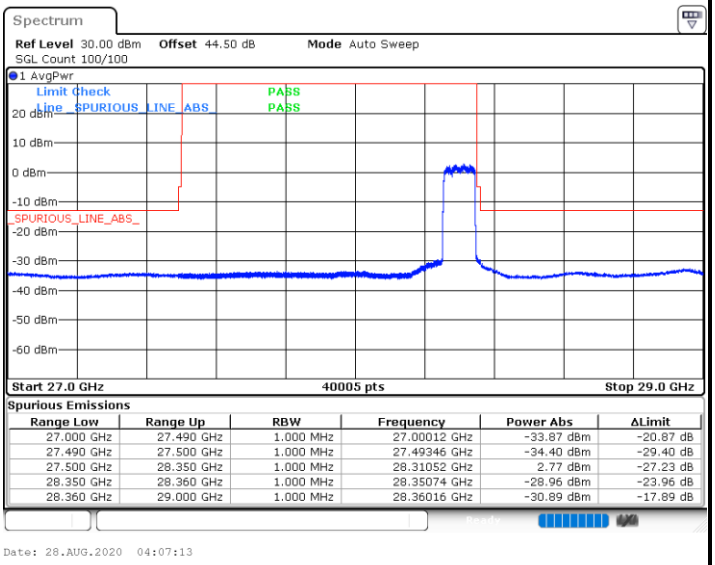




DFT-s-OFDM Module 1

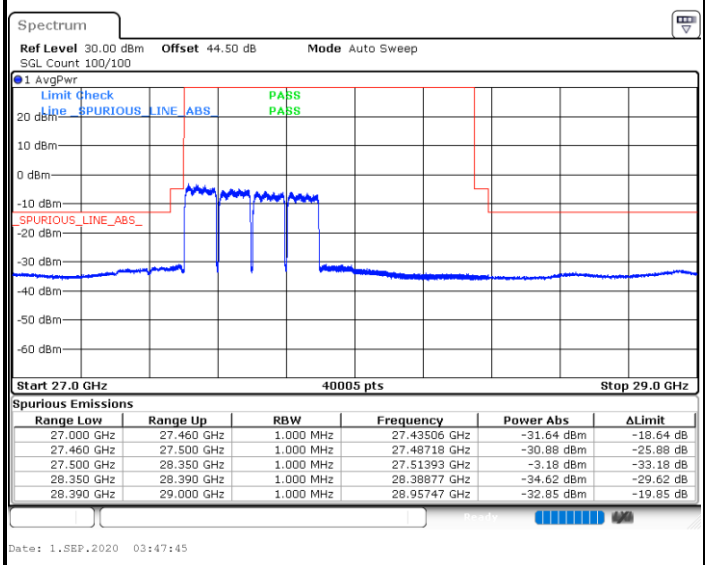
NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

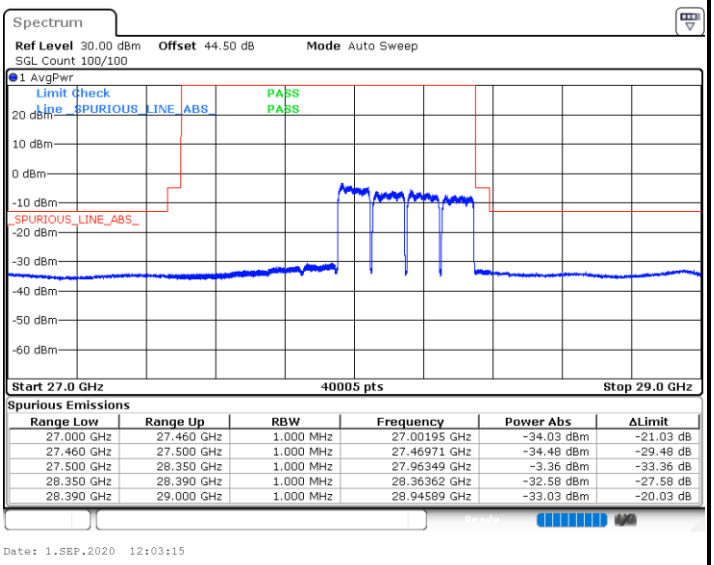




DFT-s-OFDM Module 1

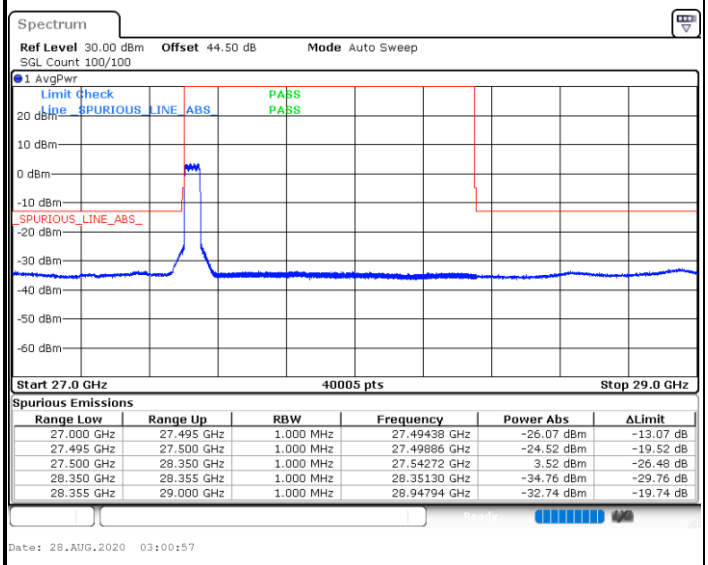
NR Band n261 / 400MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

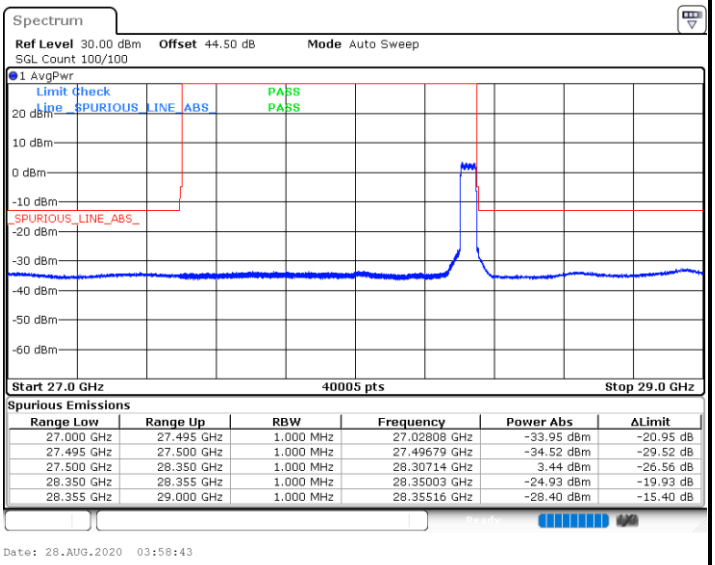




CP-OFDM Module 1

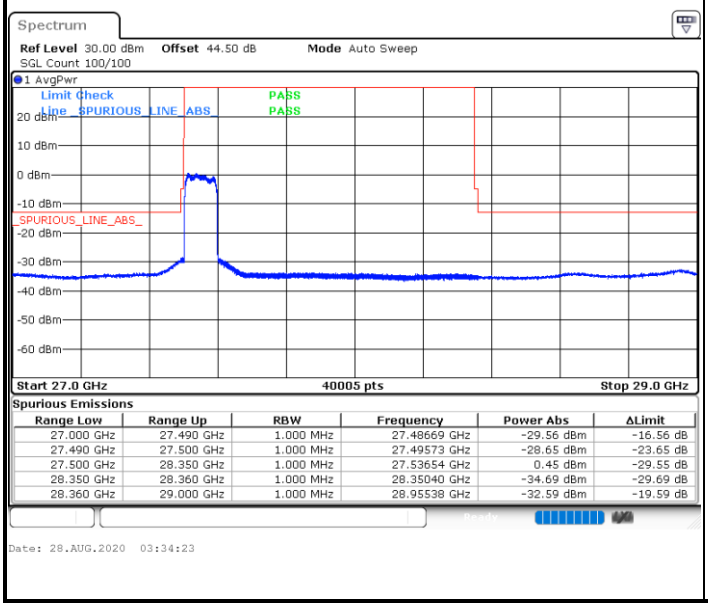
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

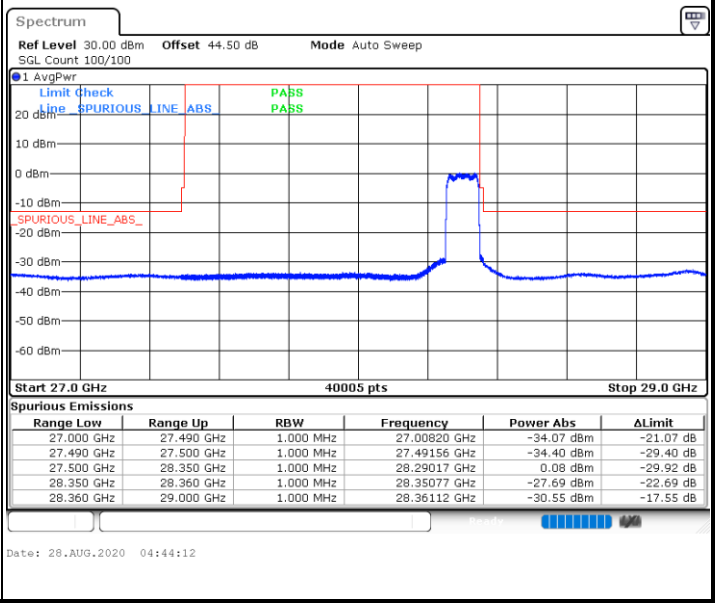




CP-OFDM Module 1

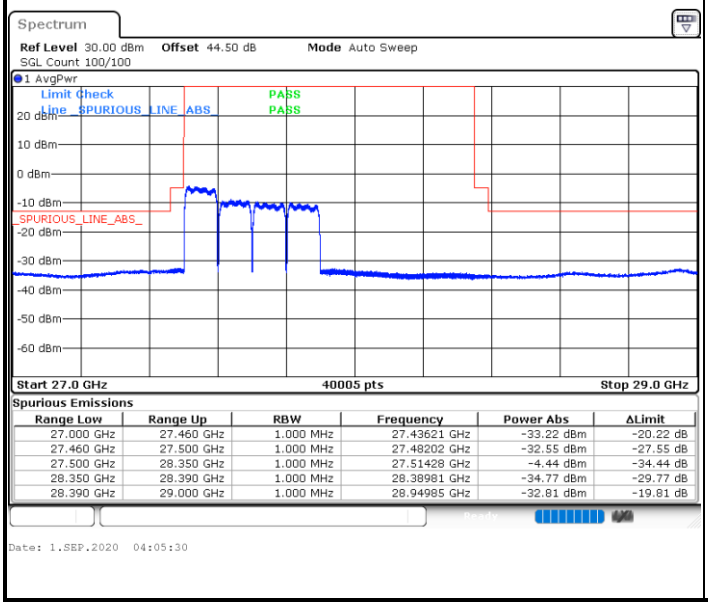
NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

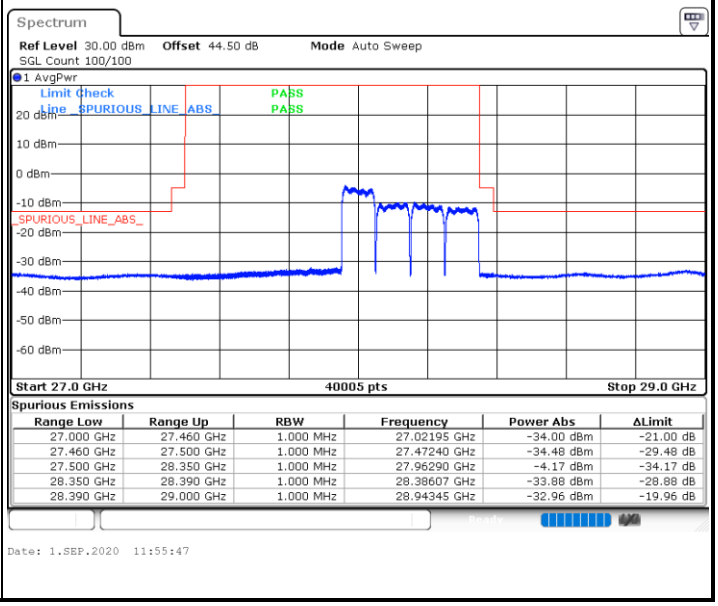




CP-OFDM Module 1

NR Band n261 / 400MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**



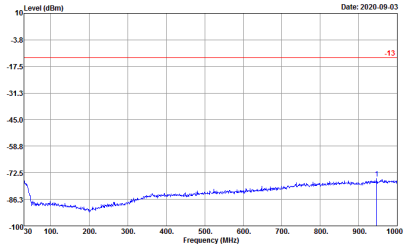


Spurious Emission

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

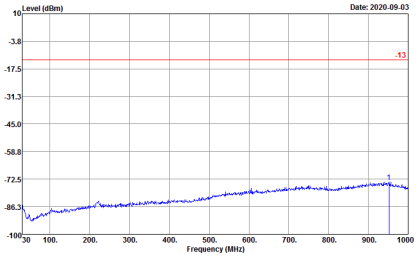
Only the noise floor is reported.

NR Band n261 (30MHz-1GHz)	
Horizontal	**Vertical**



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 060302
: n261 Module 1

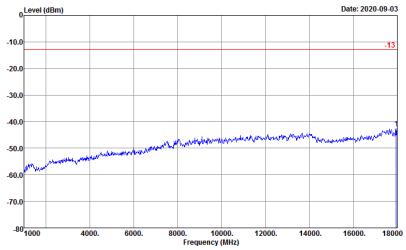
	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	946.65	-75.48	-62.48	-13.00



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 060302
: n261 Module 1

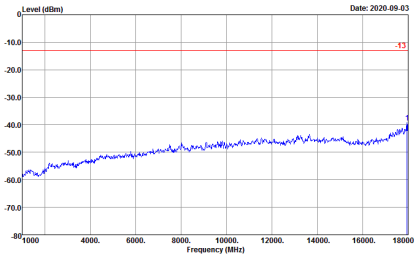
	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	951.50	-73.93	-60.93	-13.00

NR Band n261 (1GHz-18GHz)	
Horizontal	**Vertical**



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 060302
: n261 Module 1

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	17949.00	-42.60	-29.60	-13.00

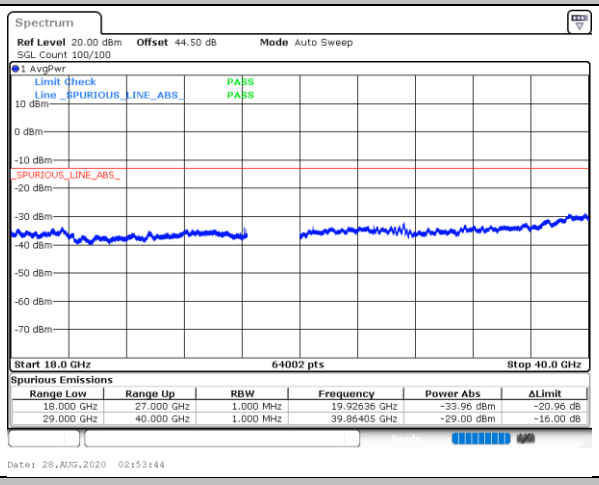
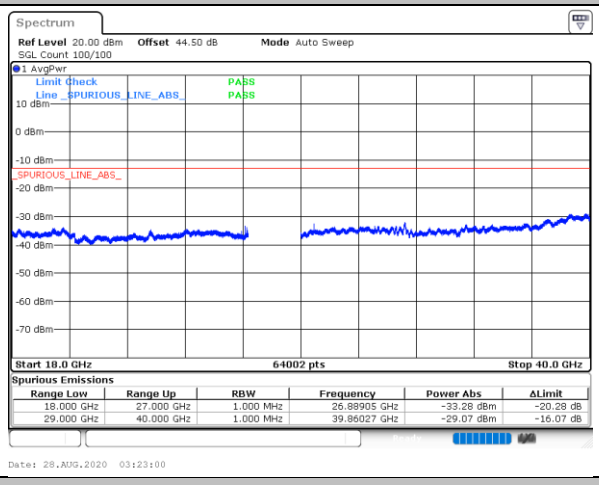
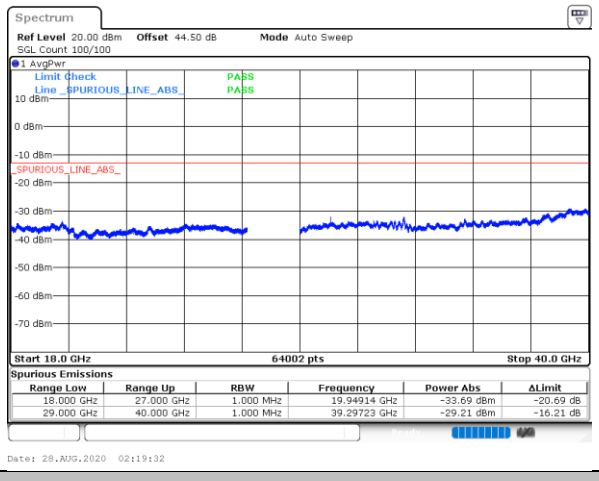
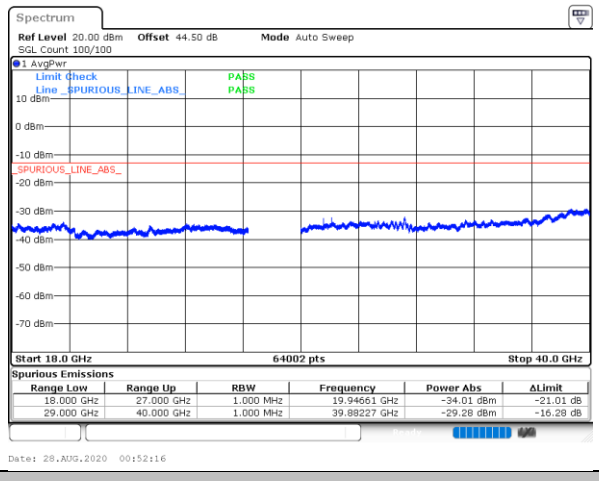
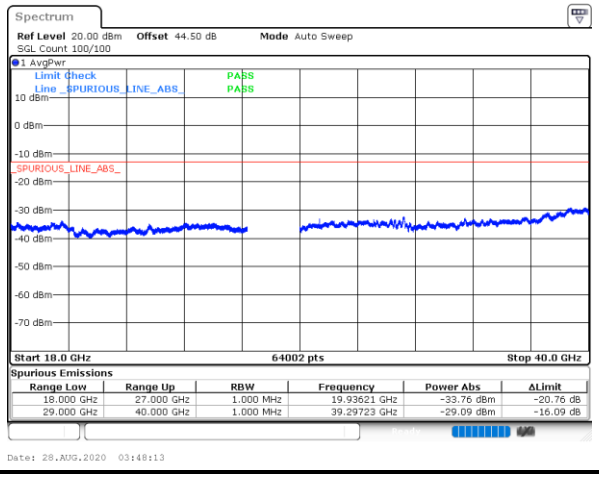
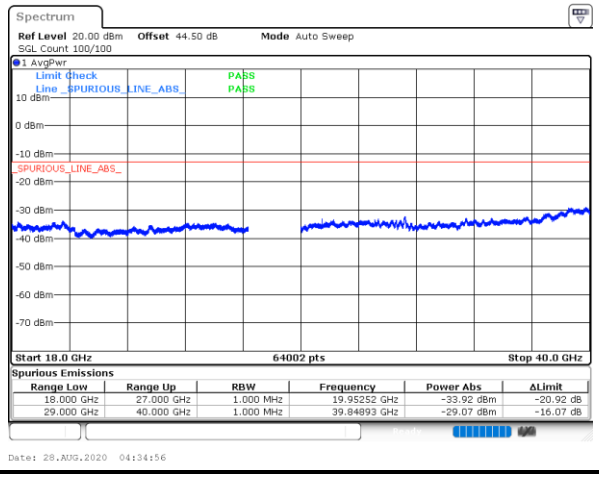


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 060302
: n261 Module 1

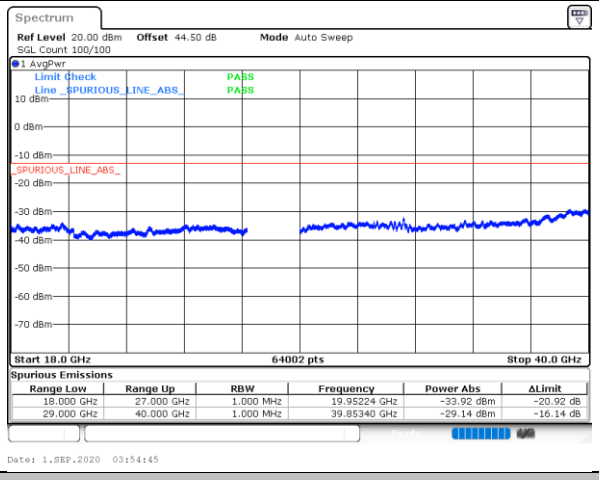
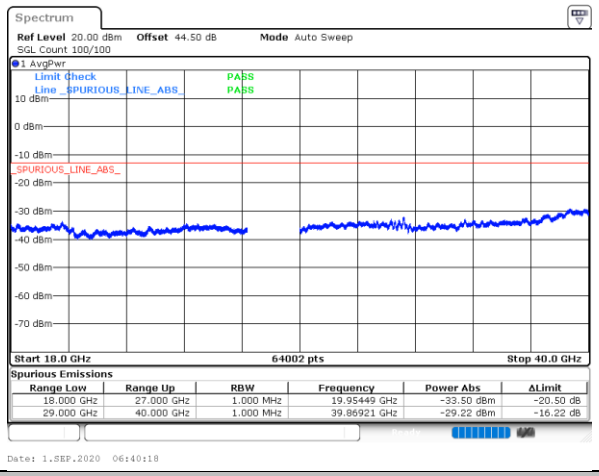
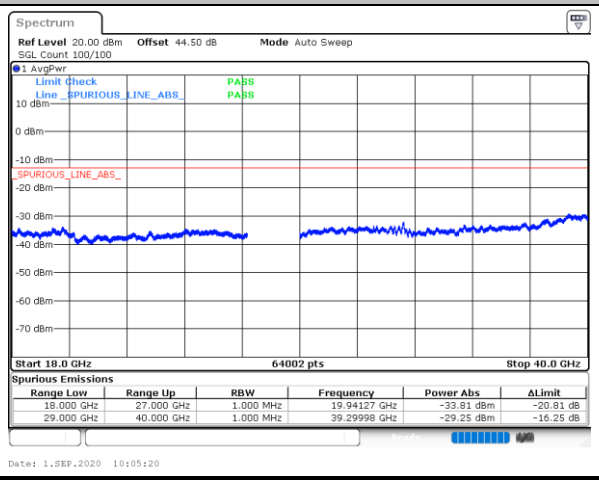
	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	17949.00	-39.14	-26.14	-13.00

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

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**
	

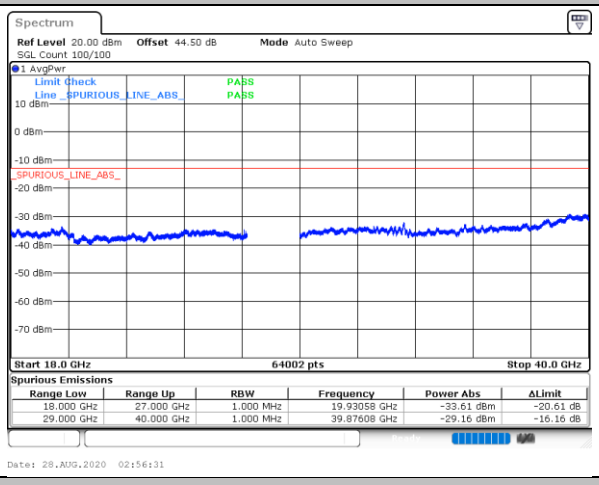
DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

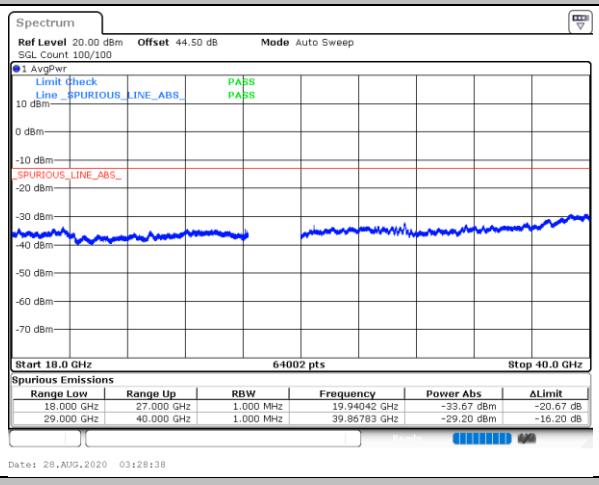
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

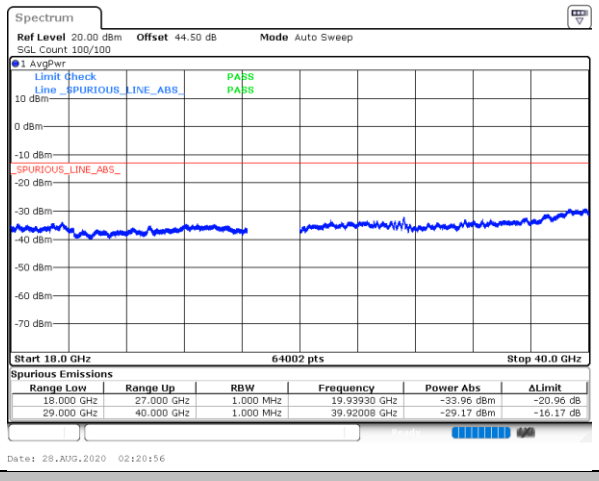
Lowest Channel / 50MHz



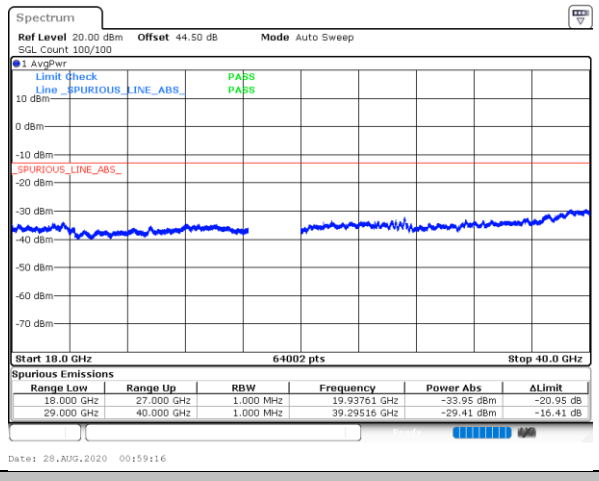
Lowest Channel / 100MHz



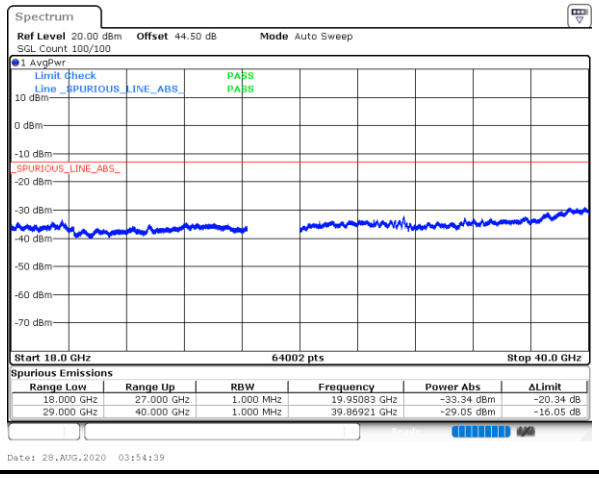
Middle Channel / 50MHz



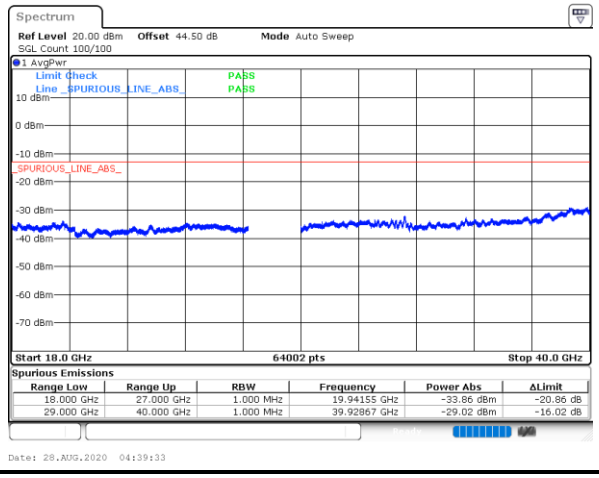
Middle Channel / 100MHz



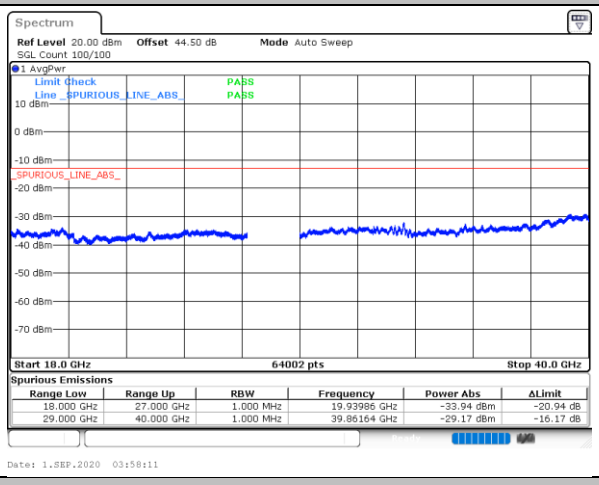
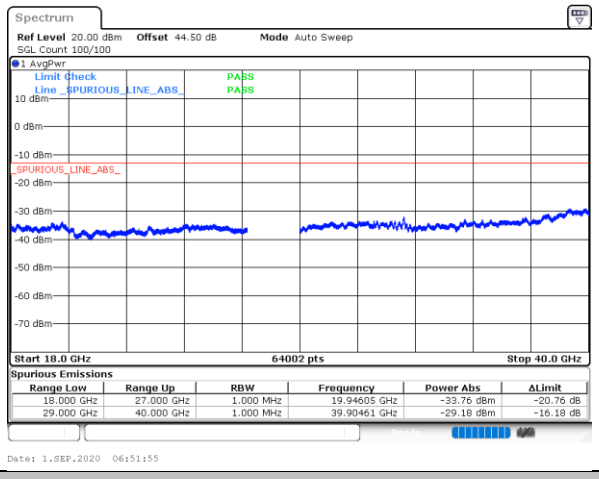
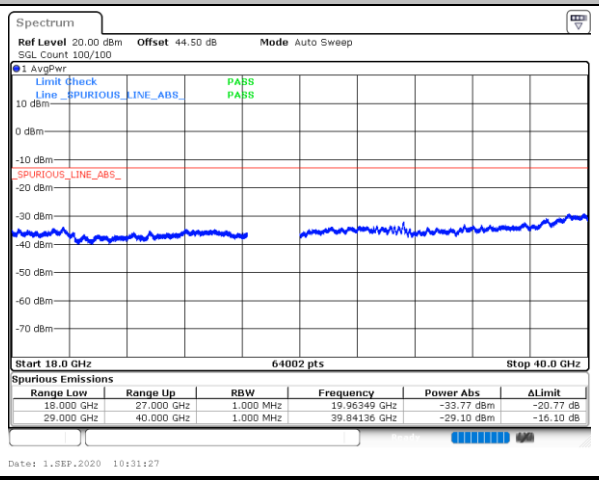
Highest Channel / 50MHz



Highest Channel / 100MHz



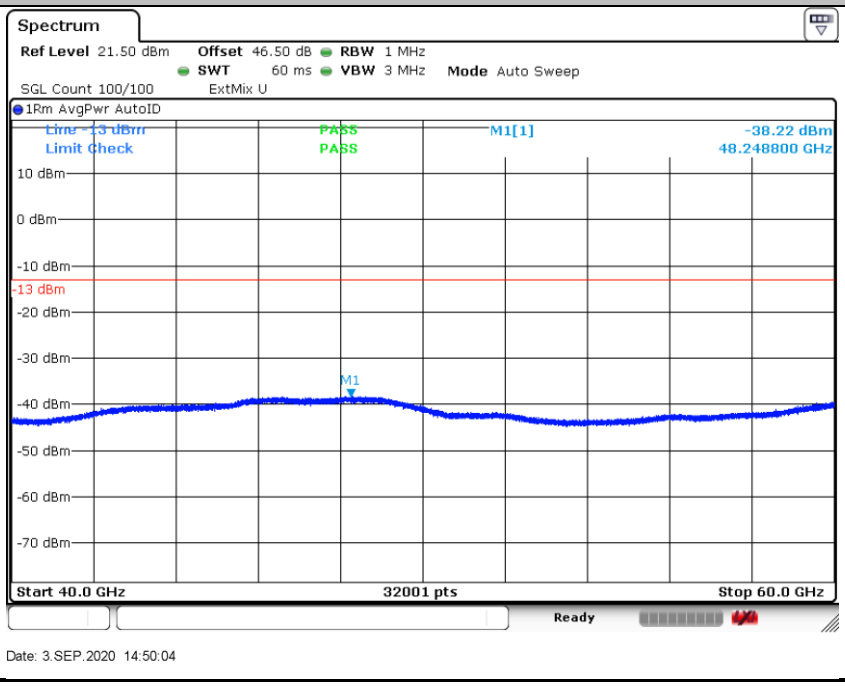
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.

Only the noise floor is reported.

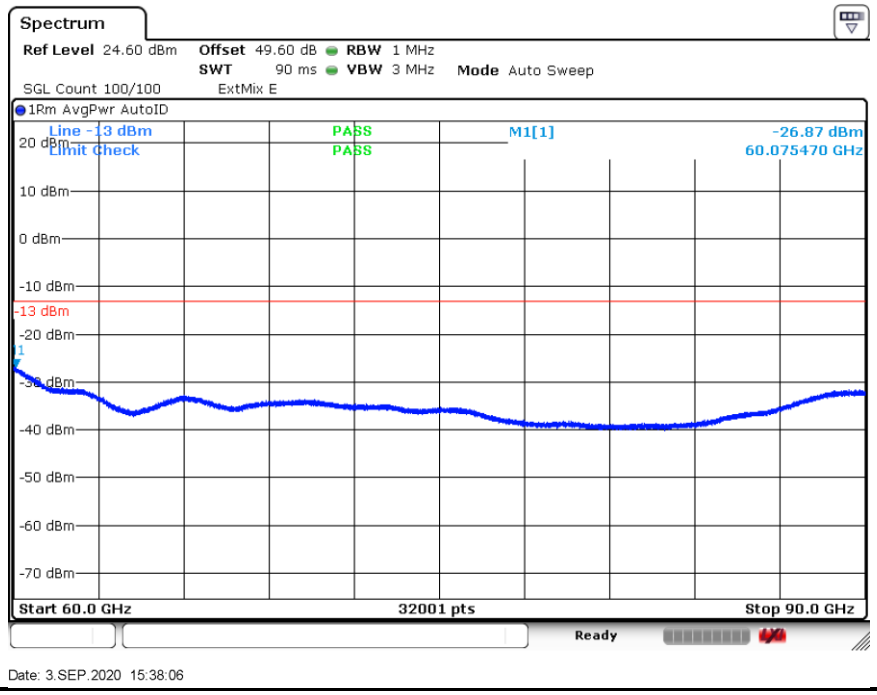
NR Band n261
(40GHz-60GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 42.1 + 2.2 + 107 + 20log(1) – 104.8 = 46.5 (dB)

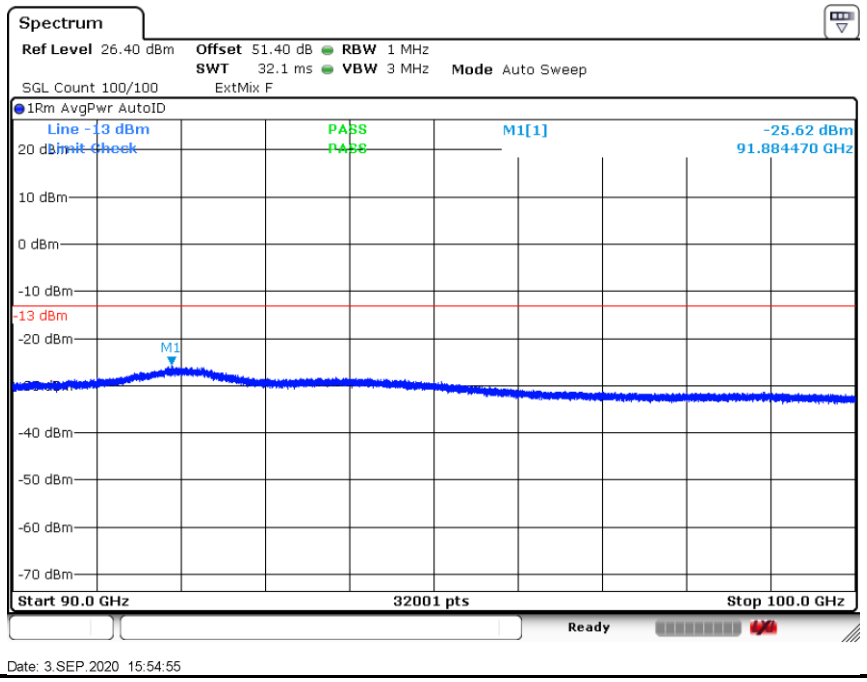
NR Band n261
(60GHz-90GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 45.2 + 2.2 + 107 + 20log(1) – 104.8 = 49.6 (dB)

NR Band n261
(90GHz-100GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 47 + 2.2 + 107 + 20log(1) – 104.8 = 51.4 (dB)

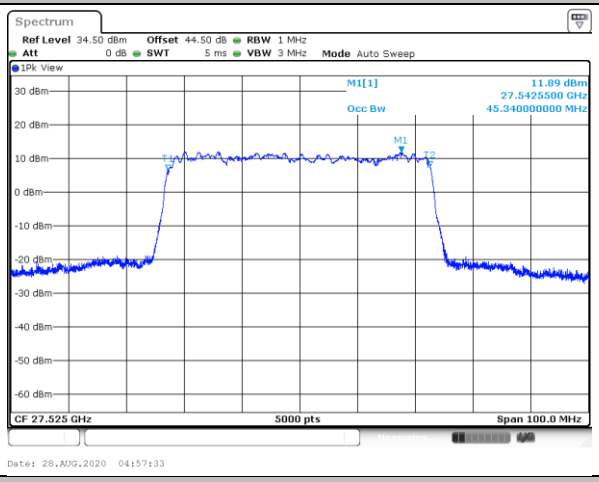
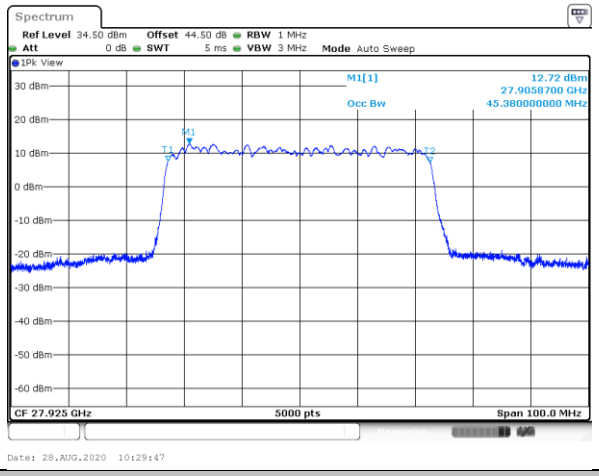
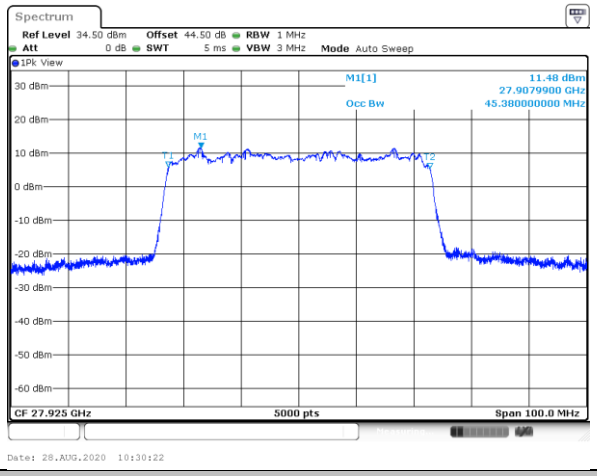
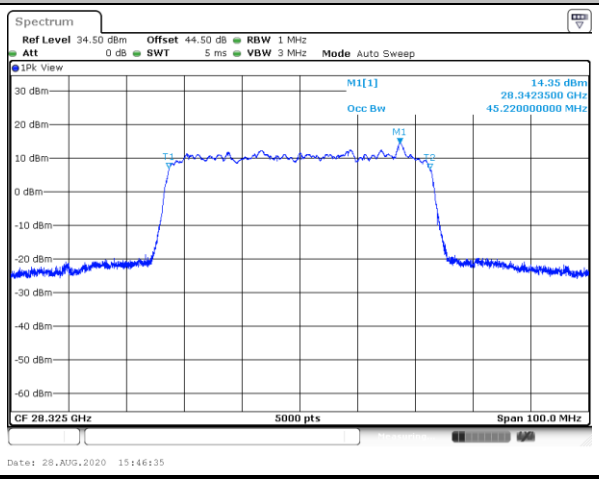
NR Band n261 Module 1 AG0+1

Occupied Bandwidth

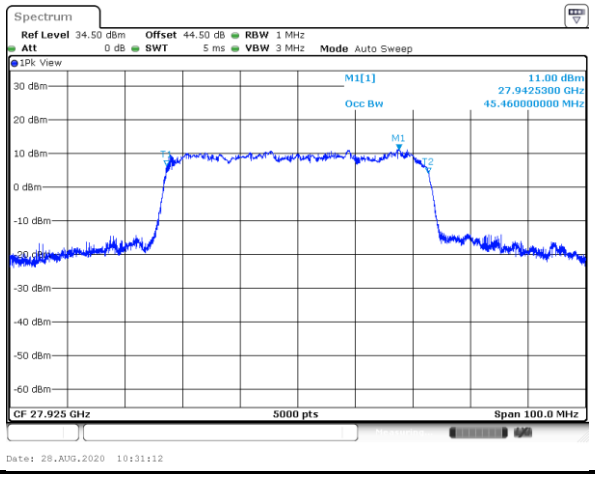
Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.34	-	-	90.84	-	-
Middle CH	45.38	45.38	45.46	90.36	90.48	90.64
Highest CH	45.22	-	-	90.52	-	-

Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.16	-	-	92.76	-	-
Middle CH	45.48	45.58	45.30	93.08	92.76	92.52
Highest CH	45.22	-	-	92.72	-	-

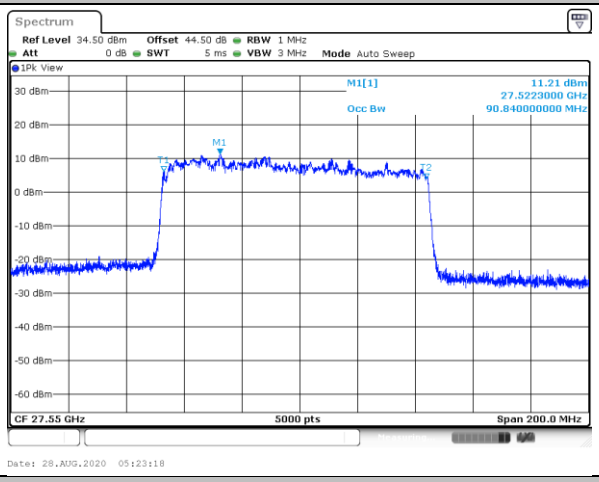
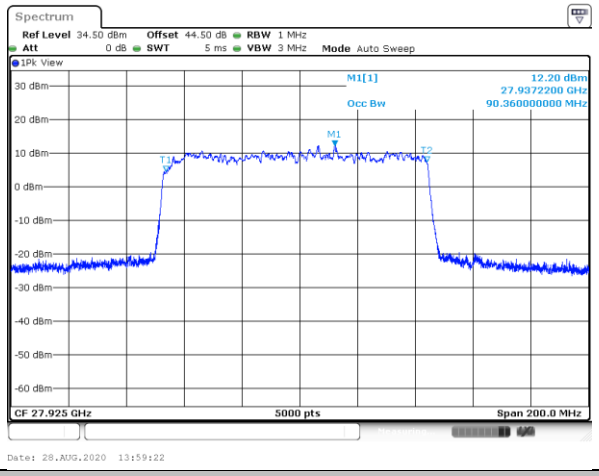
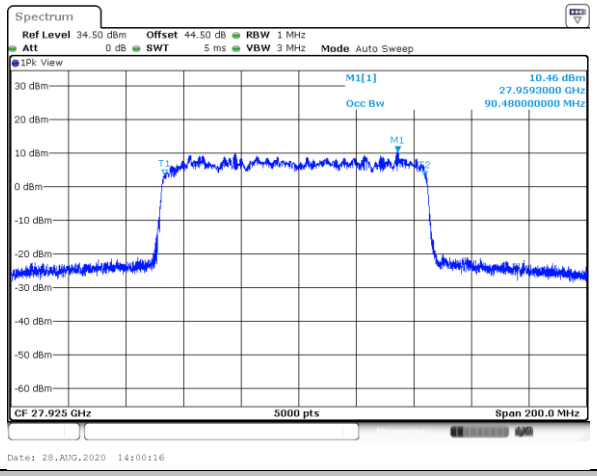
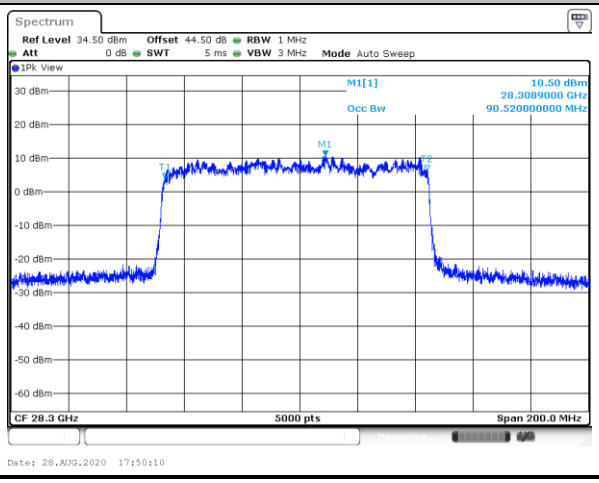
DFT-s-OFDM Module 1

NR Band n261	
Lowest Channel / 50MHz / QPSK	
	
Middle Channel / 50MHz / QPSK	**Middle Channel / 50MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

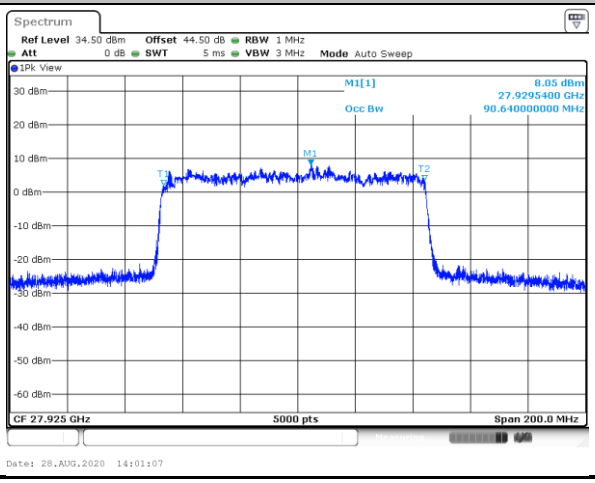
DFT-s-OFDM Module 1

NR Band n261	
Lowest Channel / 50MHz / 64QAM	
	

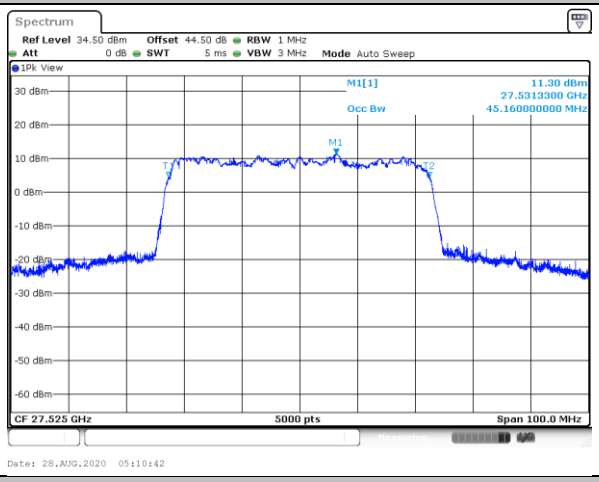
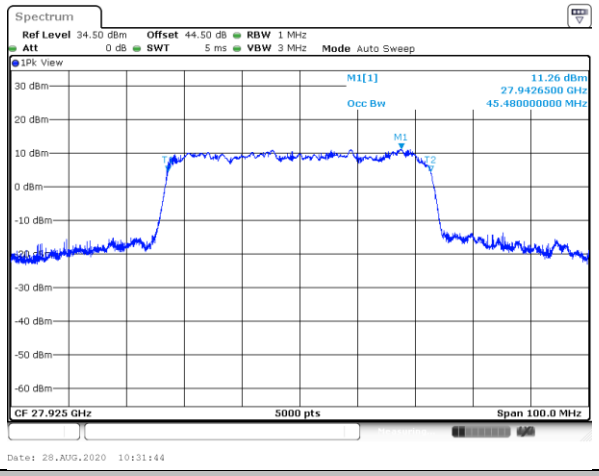
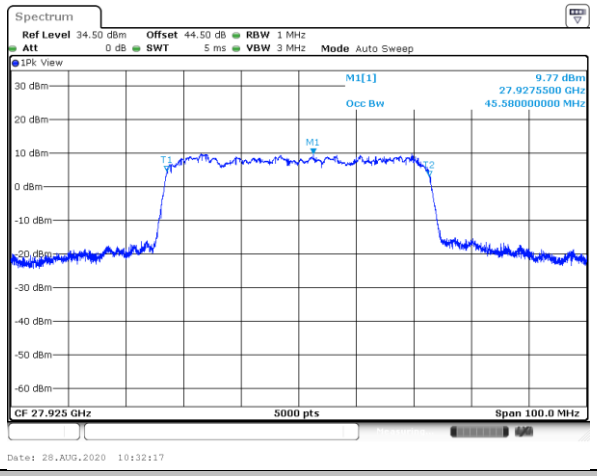
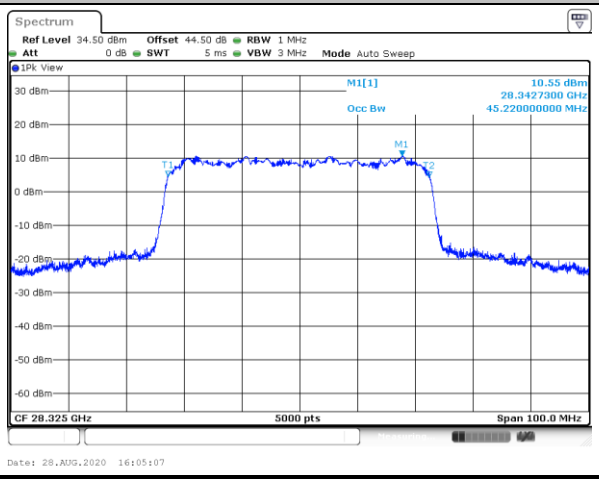
DFT-s-OFDM Module 1

NR Band n261	
Lowest Channel / 100MHz / QPSK	
	
Middle Channel / 100MHz / QPSK	**Middle Channel / 100MHz / 16QAM**
	
Highest Channel / 100MHz / QPSK	
	

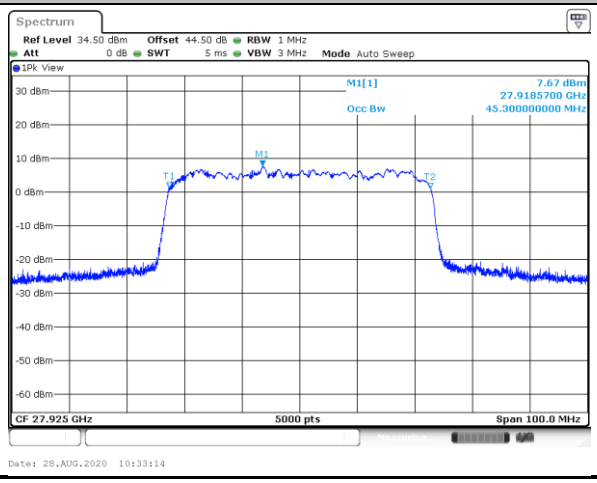
DFT-s-OFDM Module 1

NR Band n261	
Lowest Channel / 100MHz / 64QAM	
	

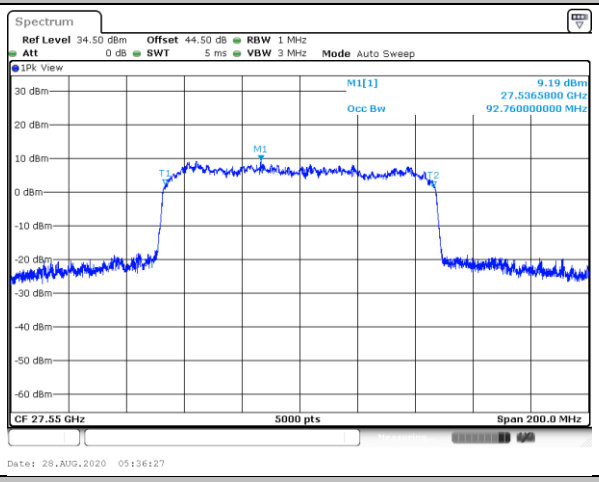
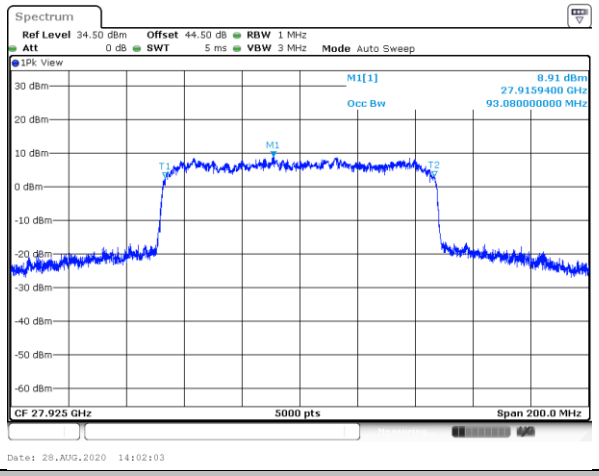
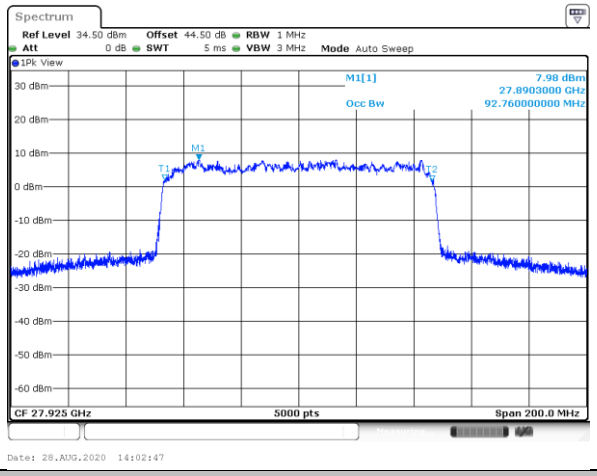
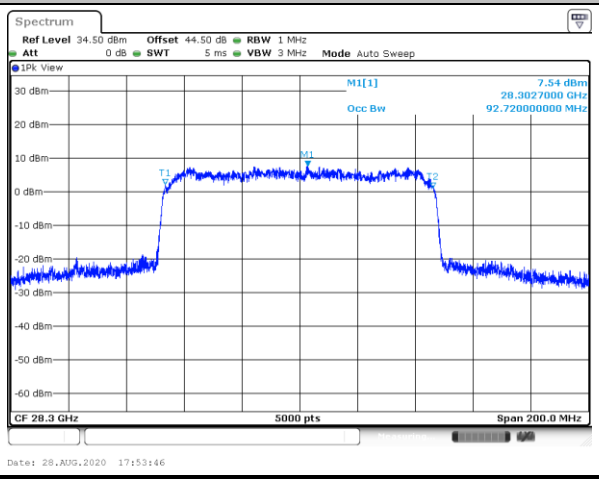
CP-OFDM Module 1

NR Band n261	
Lowest Channel / 50MHz / QPSK	
	
Middle Channel / 50MHz / QPSK	**Middle Channel / 50MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

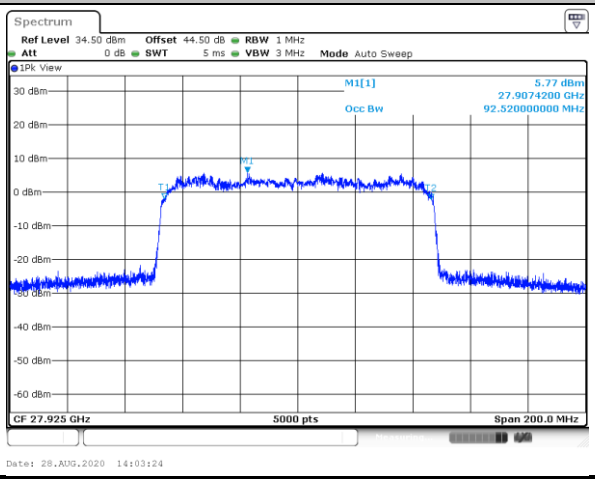
CP-OFDM Module 1

NR Band n261	
Lowest Channel / 50MHz / 64QAM	
	

CP-OFDM Module 1

NR Band n261	
Lowest Channel / 100MHz / QPSK	
	
Middle Channel / 100MHz / QPSK	**Middle Channel / 100MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

CP-OFDM Module 1

NR Band n261	
Lowest Channel / 100MHz / 64QAM	
	

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≦-5	-13.75	-16.14
	>10%OB	≦-13	-26.98	-26.98
High CH	0~10%OB	≦-5	-16.72	-18.18
	>10%OB	≦-13	-29.6	-29.64
Result			Compliance	

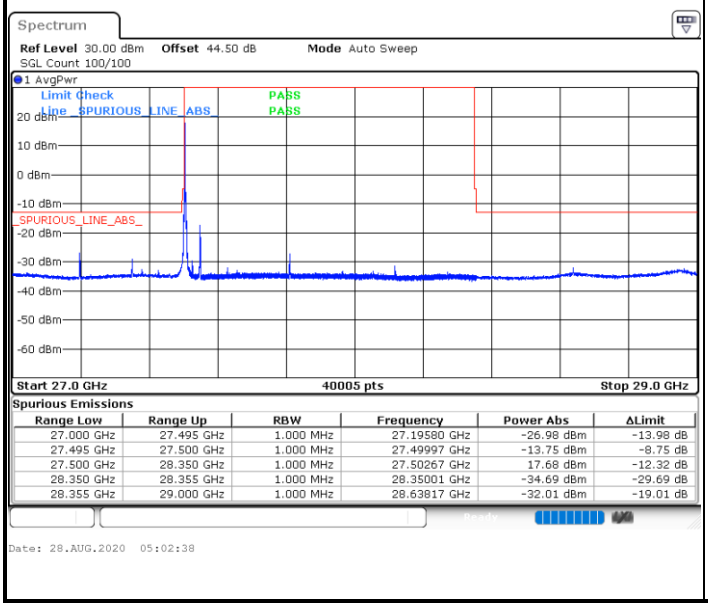
Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≦-5	-14.94	-16.81
	>10%OB	≦-13	-29.17	-29.01
High CH	0~10%OB	≦-5	-17.55	-21.41
	>10%OB	≦-13	-31.49	-31.2
Result			Compliance	

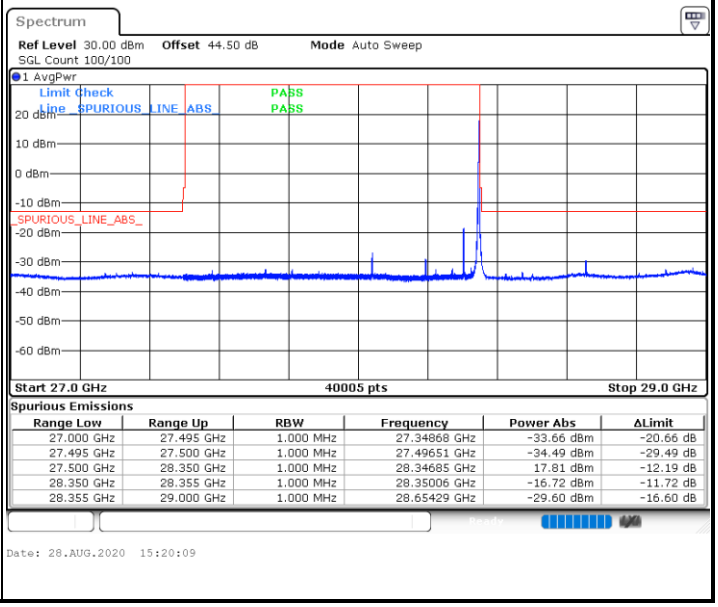
Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≦-5	-26.05	-27.57
	>10%OB	≦-13	-27.92	-28.68
High CH	0~10%OB	≦-5	-27.29	-30.12
	>10%OB	≦-13	-29.86	-32.44
Result			Compliance	

Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≦-5	-26.06	-28.15
	>10%OB	≦-13	-27.55	-29.53
High CH	0~10%OB	≦-5	-26.4	-28.86
	>10%OB	≦-13	-29.45	-31.08
Result			Compliance	

DFT-s-OFDM Module 1

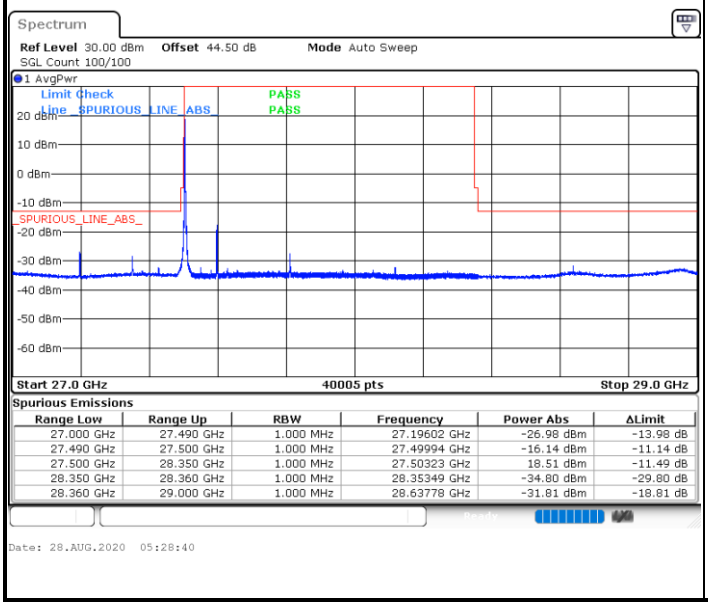
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

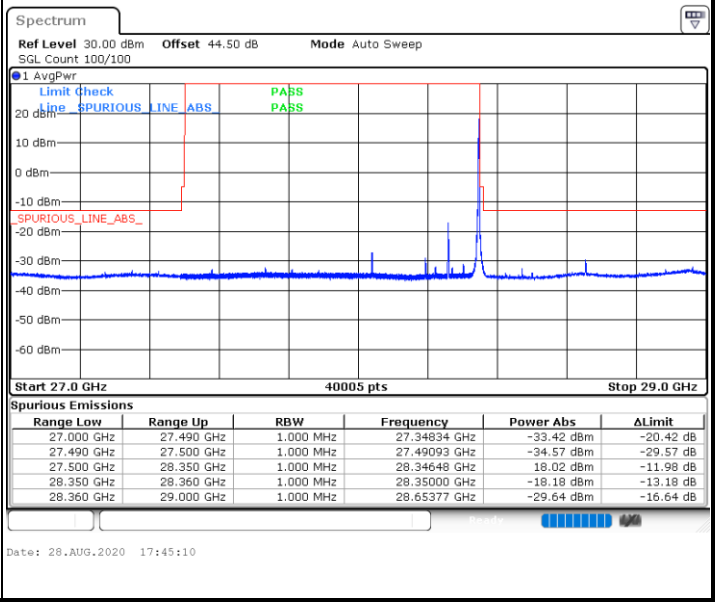




DFT-s-OFDM Module 1

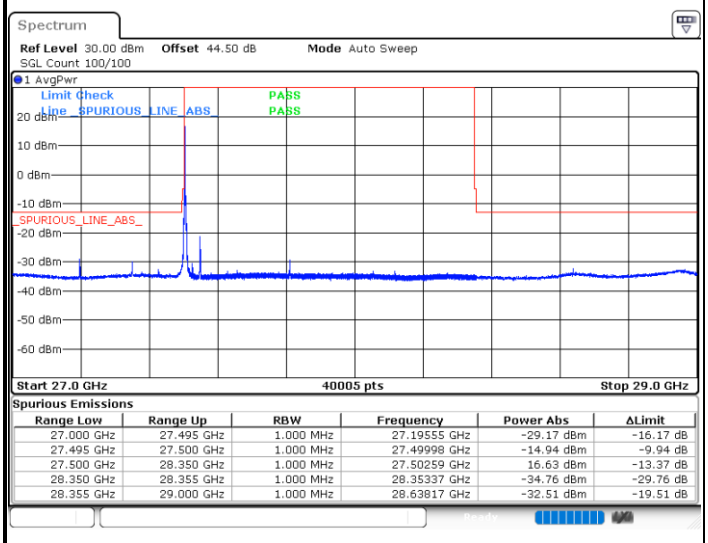
NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

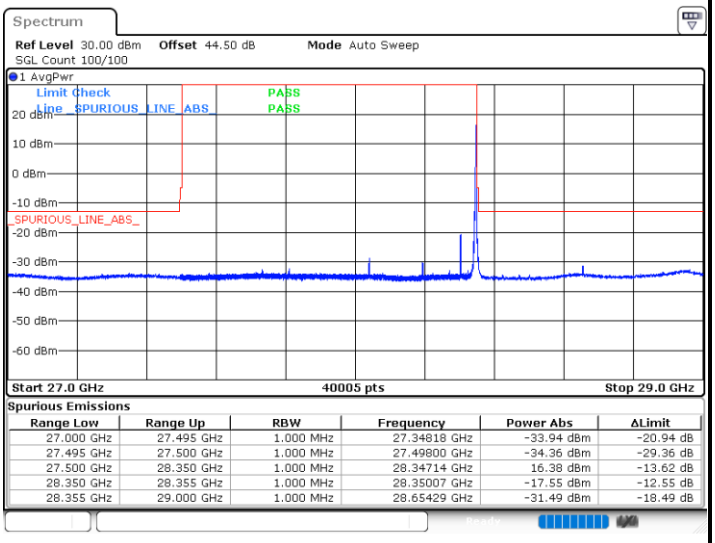




CP-OFDM Module 1

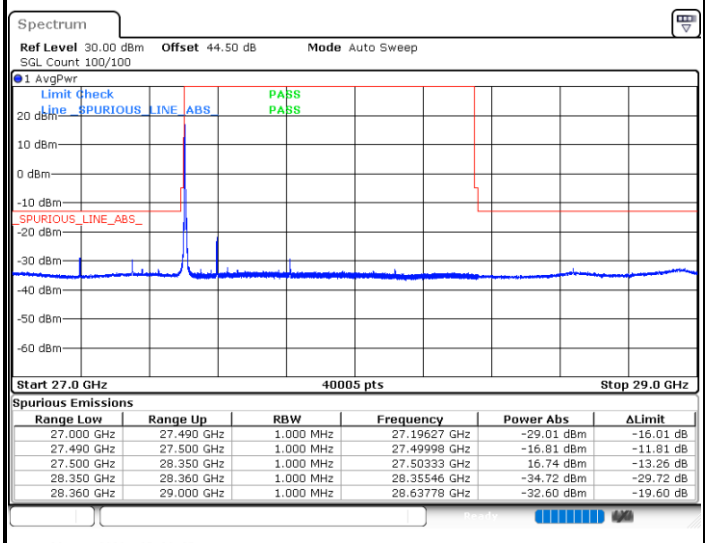
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

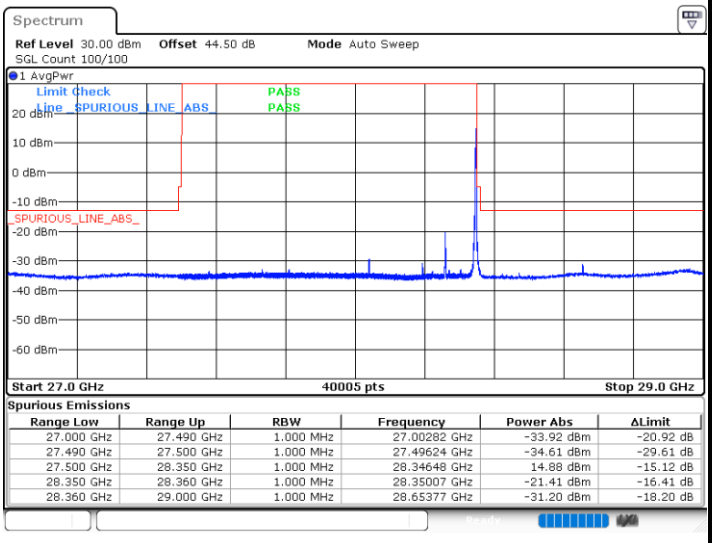




CP-OFDM Module 1

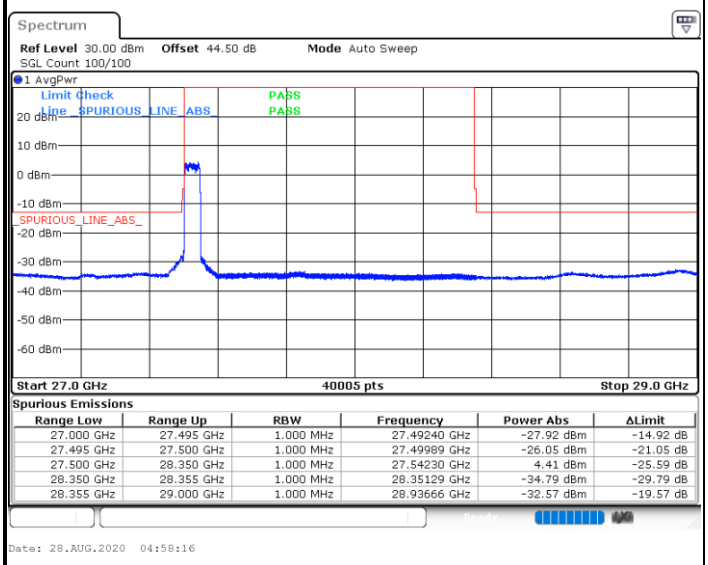
NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

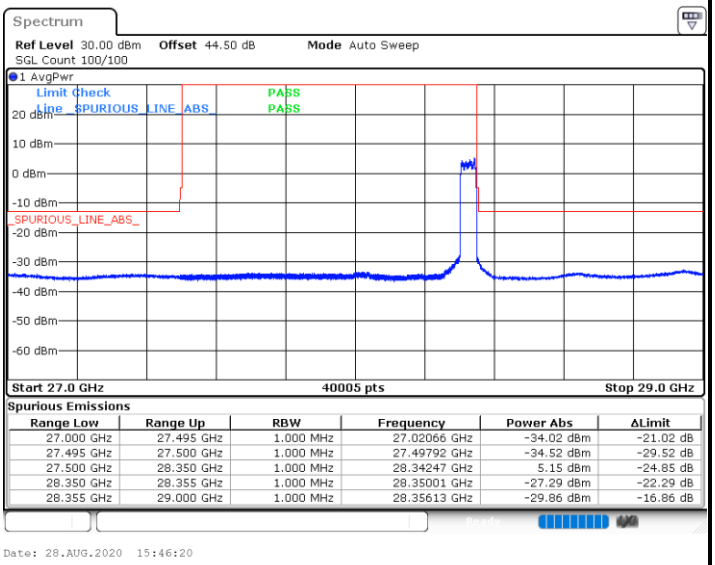




DFT-s-OFDM Module 1

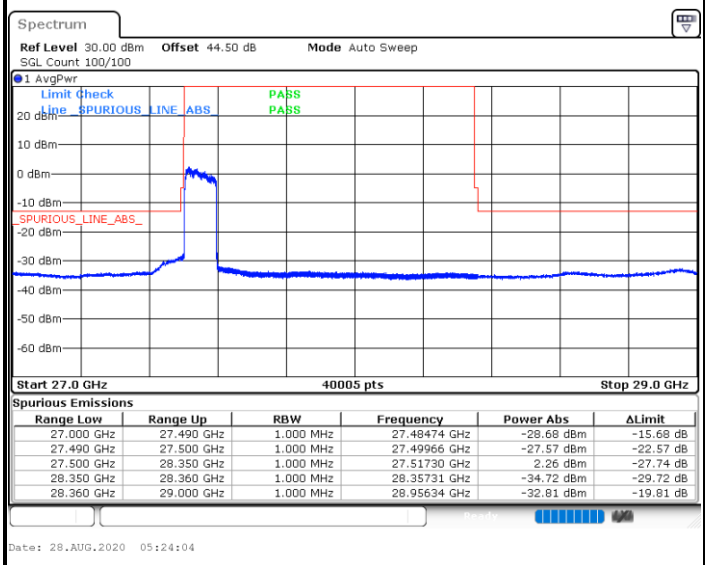
NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

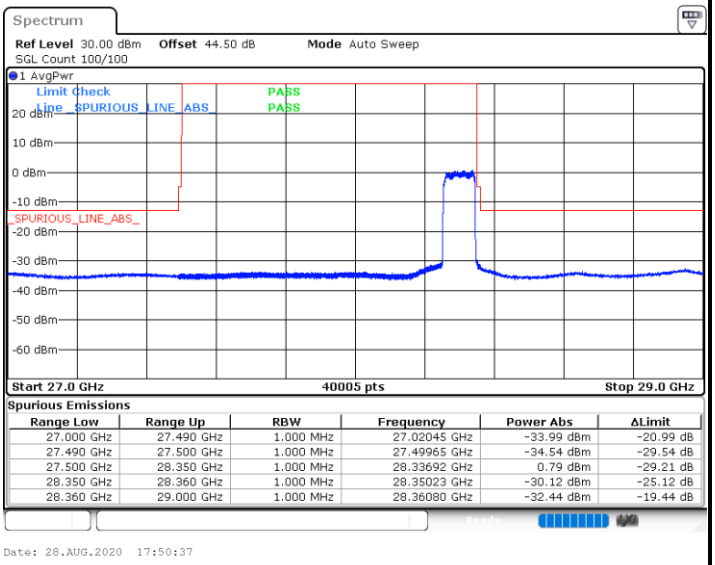




DFT-s-OFDM Module 1

NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

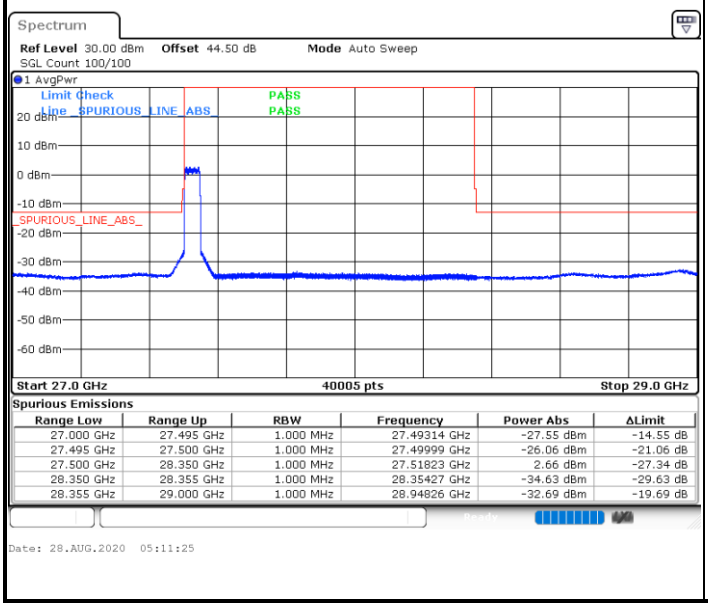




CP-OFDM Module 1

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

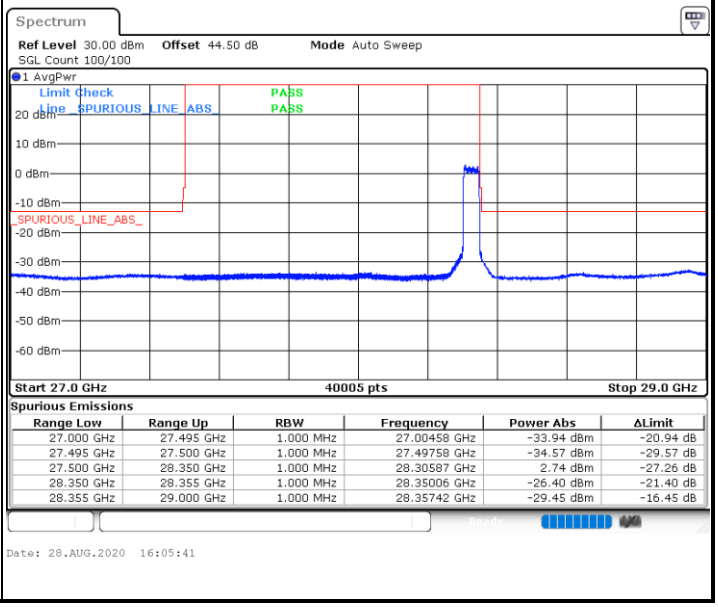


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.495 GHz	1.000 MHz	27.49314 GHz	-27.55 dBm	-14.55 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49999 GHz	-26.06 dBm	-21.06 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.51823 GHz	2.66 dBm	-27.34 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35427 GHz	-34.63 dBm	-29.63 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.94826 GHz	-32.69 dBm	-19.69 dB

Date: 28.AUG.2020 05:11:25

Highest Band Edge / Full RB



Spurious Emissions

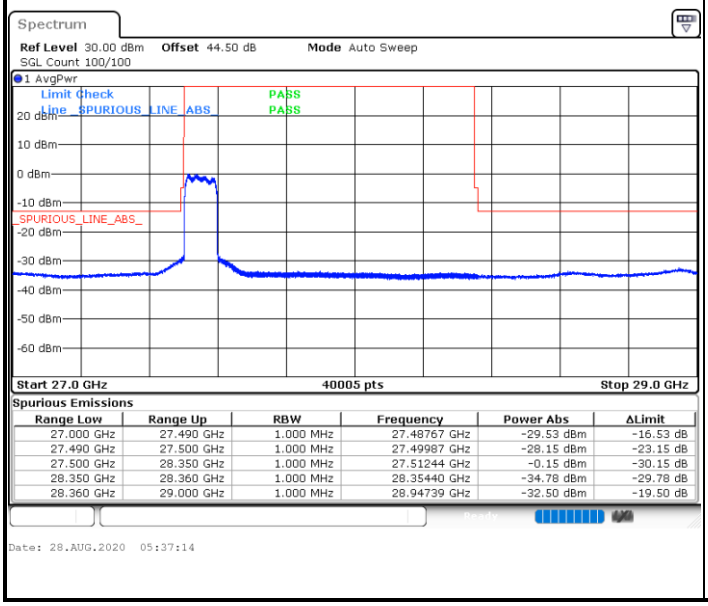
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.495 GHz	1.000 MHz	27.00458 GHz	-33.94 dBm	-20.94 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49758 GHz	-34.57 dBm	-29.57 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.30587 GHz	2.74 dBm	-27.26 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35006 GHz	-26.40 dBm	-21.40 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.35742 GHz	-29.45 dBm	-16.45 dB

Date: 28.AUG.2020 16:05:41

CP-OFDM Module 1

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

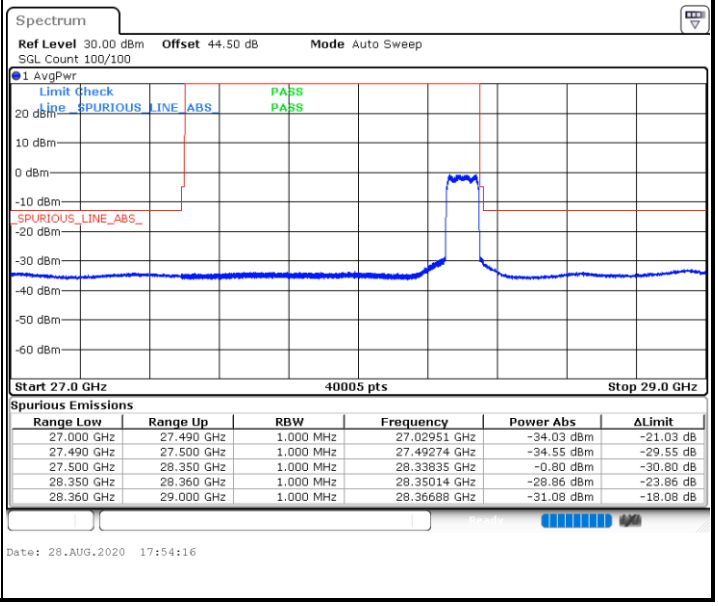


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.490 GHz	1.000 MHz	27.48767 GHz	-29.53 dBm	-16.53 dB
27.490 GHz	27.500 GHz	1.000 MHz	27.49987 GHz	-28.15 dBm	-23.15 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.51244 GHz	-0.15 dBm	-30.15 dB
28.350 GHz	28.360 GHz	1.000 MHz	28.35440 GHz	-34.78 dBm	-29.78 dB
28.360 GHz	29.000 GHz	1.000 MHz	28.94739 GHz	-32.50 dBm	-19.50 dB

Date: 28.AUG.2020 05:37:14

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.490 GHz	1.000 MHz	27.02951 GHz	-34.03 dBm	-21.03 dB
27.490 GHz	27.500 GHz	1.000 MHz	27.49274 GHz	-34.55 dBm	-29.55 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.33835 GHz	-0.80 dBm	-30.80 dB
28.350 GHz	28.360 GHz	1.000 MHz	28.35014 GHz	-28.86 dBm	-23.86 dB
28.360 GHz	29.000 GHz	1.000 MHz	28.36688 GHz	-31.08 dBm	-18.08 dB

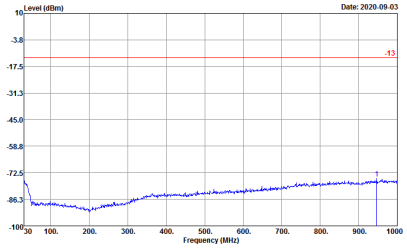
Date: 28.AUG.2020 17:54:16

Spurious Emission

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

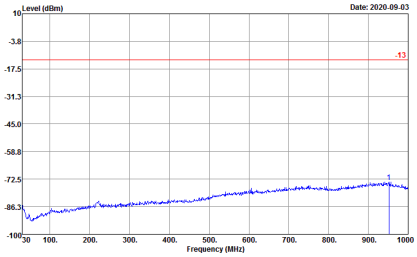
Only the noise floor is reported.

NR Band n261 (30MHz-1GHz)	
Horizontal	**Vertical**



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 060302
: n261 Module 1

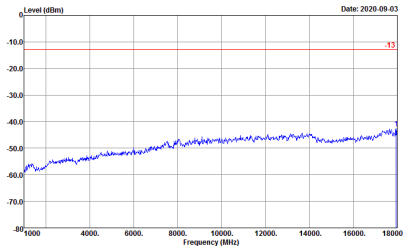
	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	946.65	-75.48	-62.48	-13.00



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 060302
: n261 Module 1

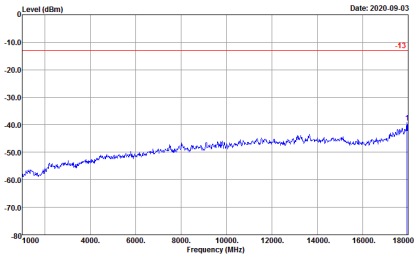
	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	951.50	-73.93	-60.93	-13.00

NR Band n261 (1GHz-18GHz)	
Horizontal	**Vertical**



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 060302
: n261 Module 1

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	17949.00	-42.60	-29.60	-13.00

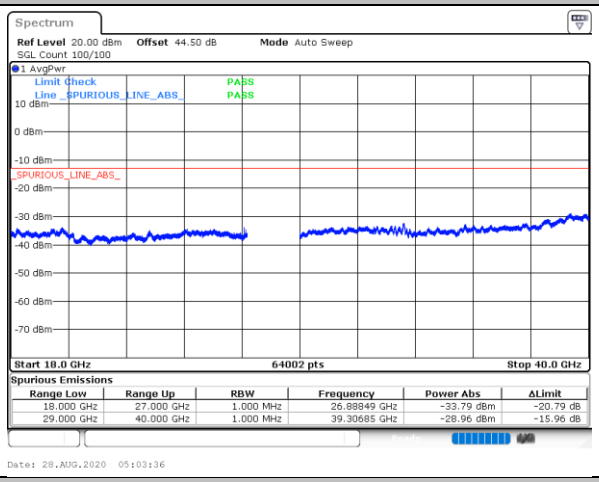
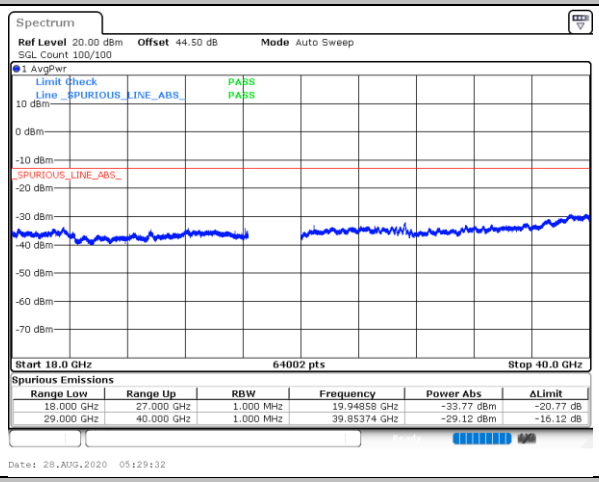
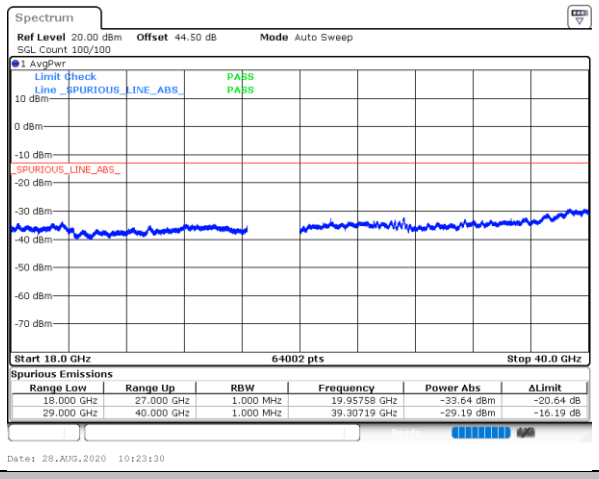
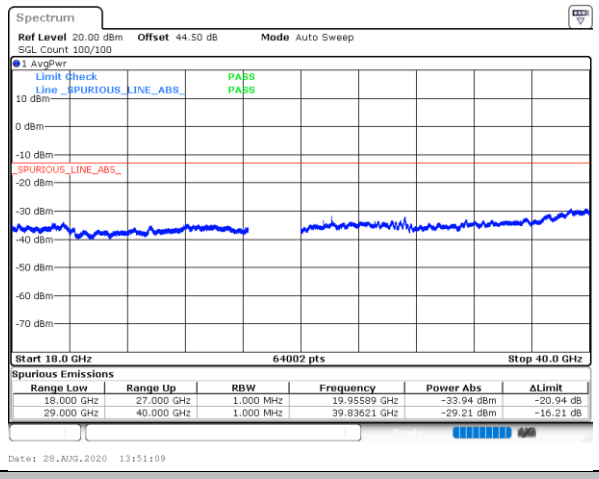
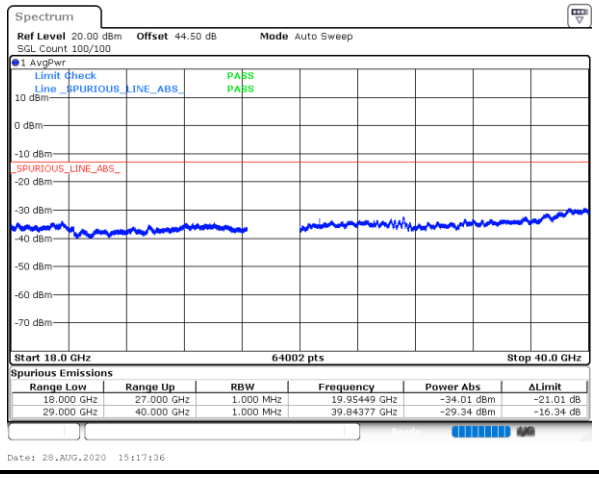
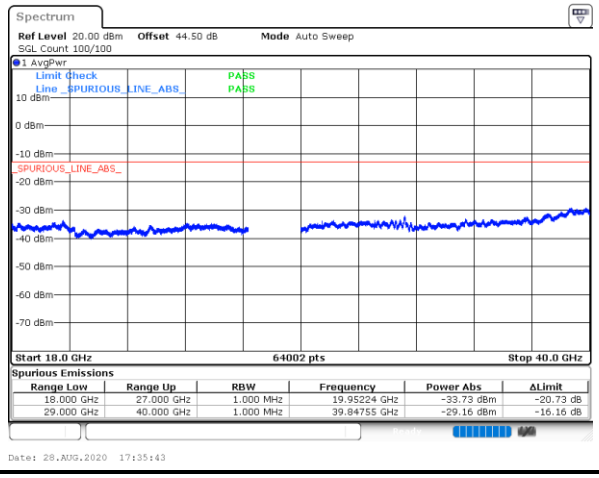


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 060302
: n261 Module 1

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	17949.00	-39.14	-26.14	-13.00

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

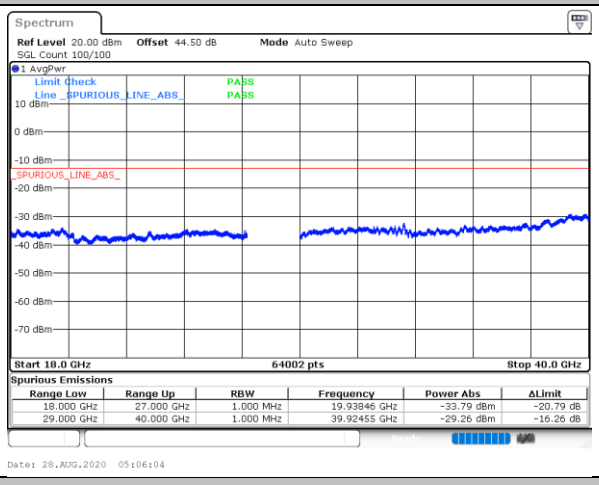
DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)	
Lowest Channel / 50MHz	**Lowest Channel / 100MHz**
	
Middle Channel / 50MHz	**Middle Channel / 100MHz**
	
Highest Channel / 50MHz	**Highest Channel / 100MHz**
	

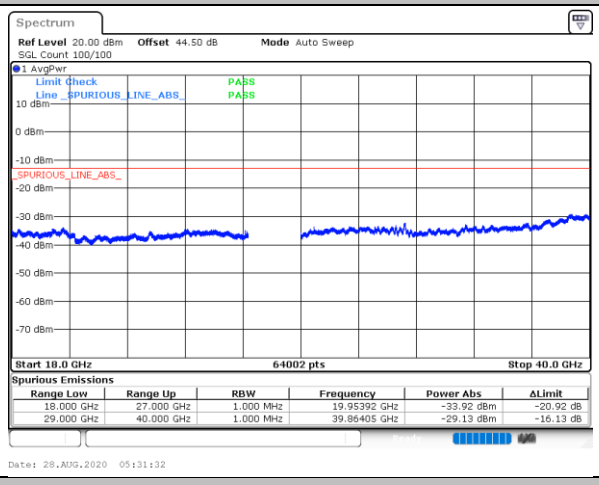
CP-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

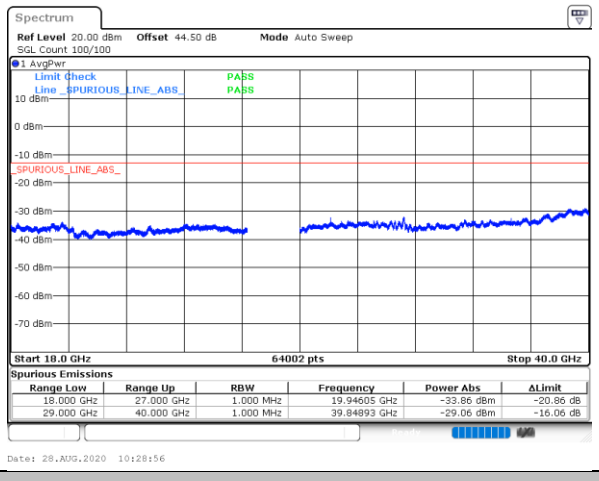
Lowest Channel / 50MHz



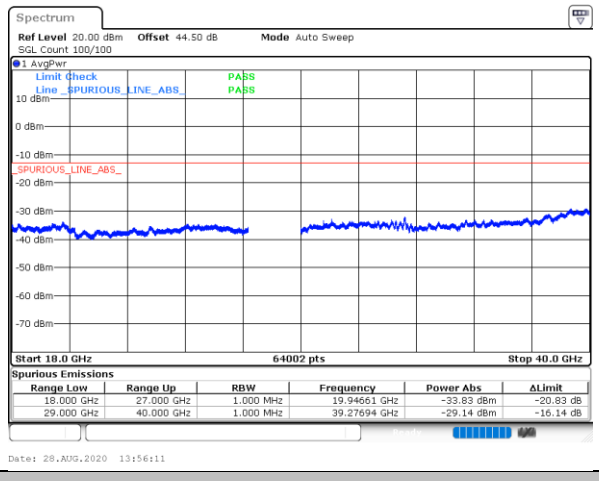
Lowest Channel / 100MHz



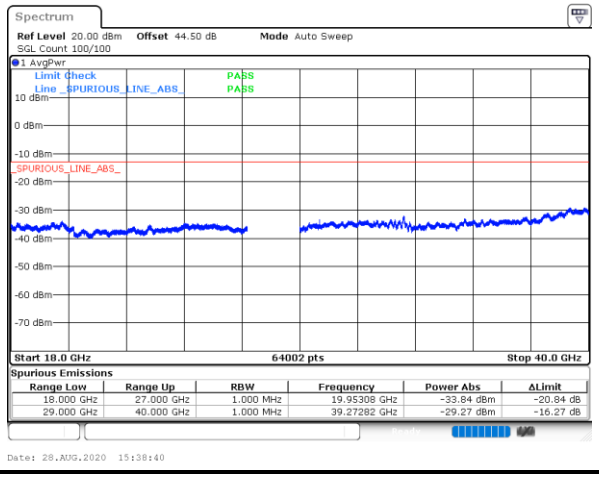
Middle Channel / 50MHz



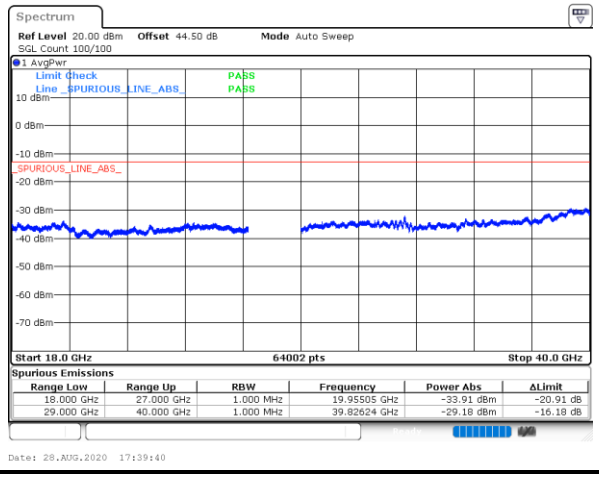
Middle Channel / 100MHz



Highest Channel / 50MHz



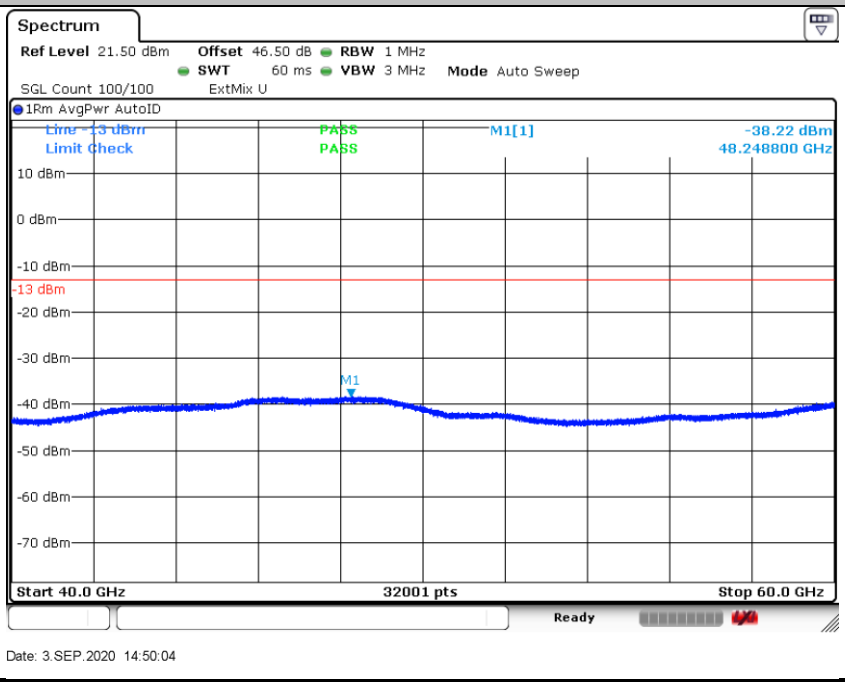
Highest Channel / 100MHz



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.

Only the noise floor is reported.

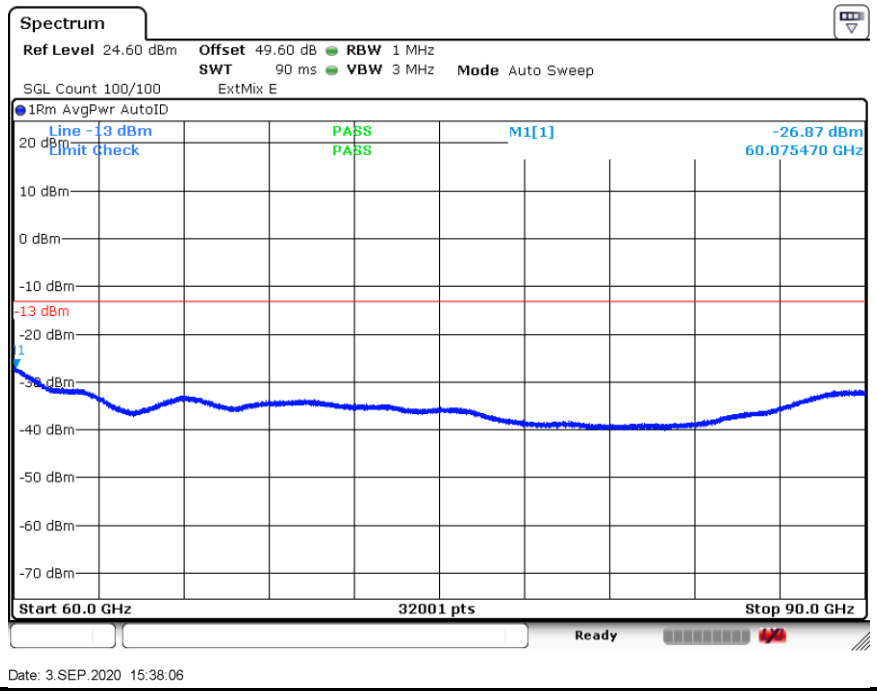
NR Band n261
(40GHz-60GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 42.1 + 2.2 + 107 + 20log(1) – 104.8 = 46.5 (dB)

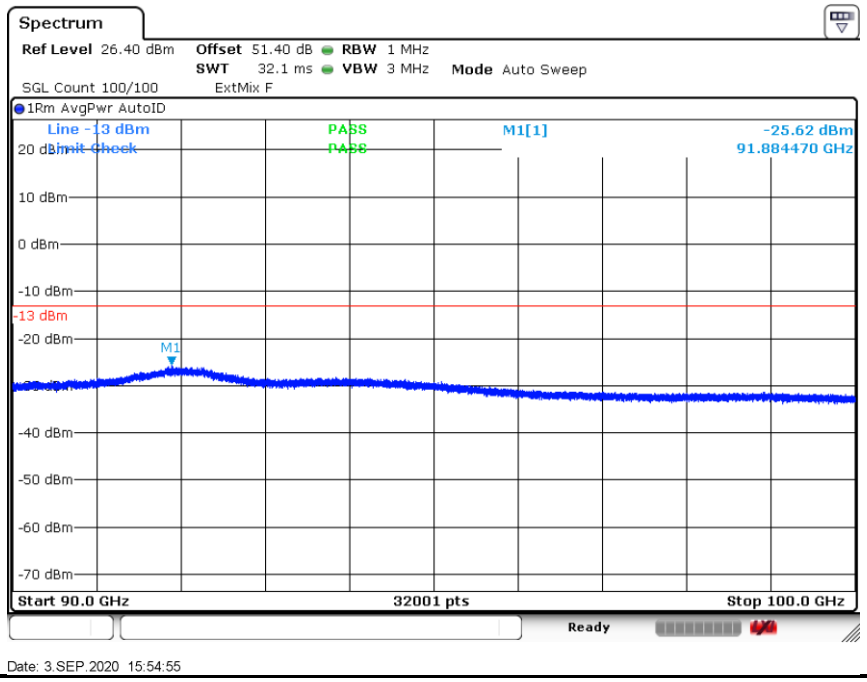
NR Band n261
(60GHz-90GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 45.2 + 2.2 + 107 + 20log(1) – 104.8 = 49.6 (dB)

NR Band n261
(90GHz-100GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 47 + 2.2 + 107 + 20log(1) – 104.8 = 51.4 (dB)

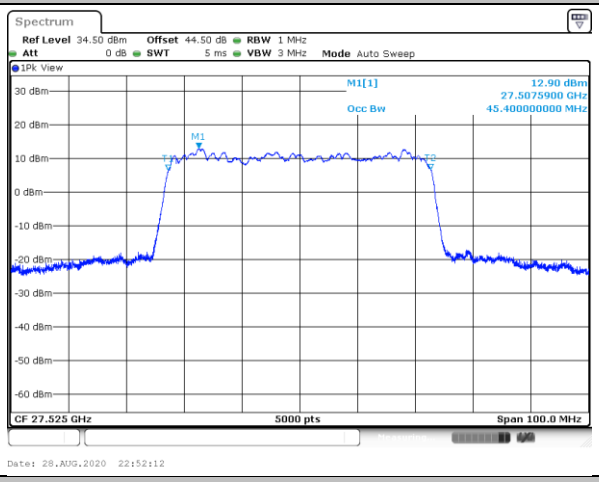
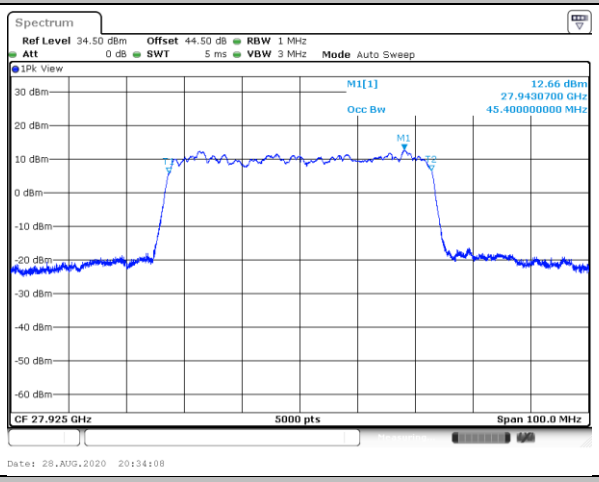
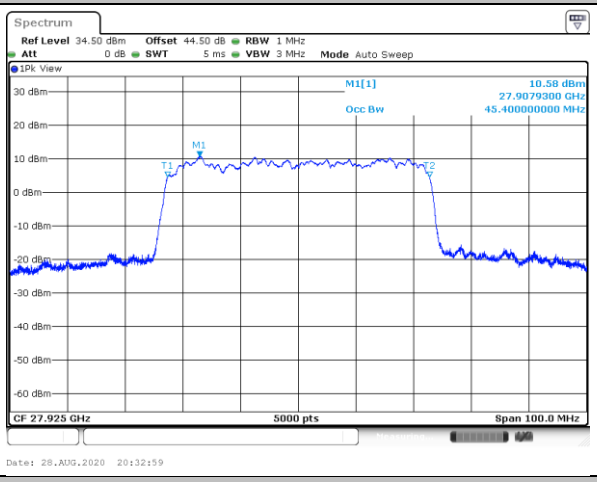
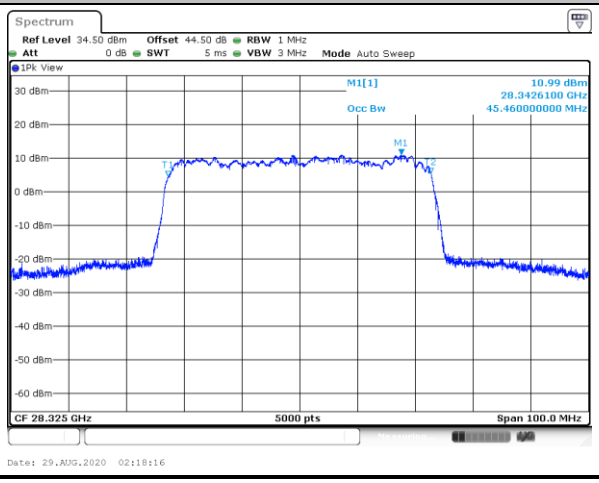
NR Band n261 Module 2 AG0

Occupied Bandwidth

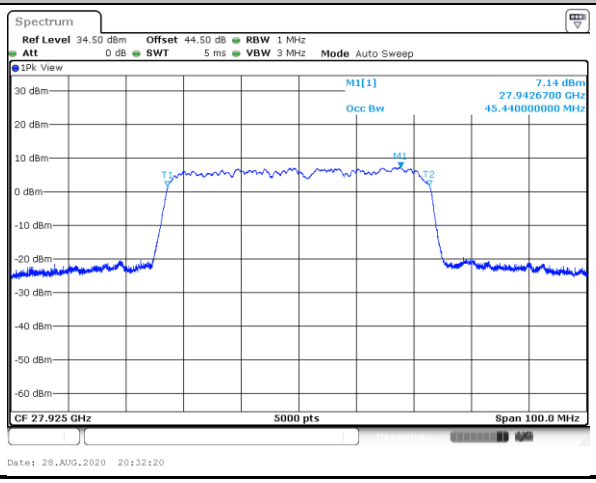
Mode	DFT-s-OFDM Module 2 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.40	-	-	90.24	-	-	387.68	-	-
Middle CH	45.40	45.40	45.44	90.00	90.72	90.72	388.48	388.00	388.96
Highest CH	45.46	-	-	90.24	-	-	388.32	-	-

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	45.36	-	-	93.04	-	-	389.92	-	-
Middle CH	45.42	45.56	45.62	93.04	92.96	92.92	389.12	387.52	389.92
Highest CH	45.48	-	-	93.08	-	-	389.12	-	-

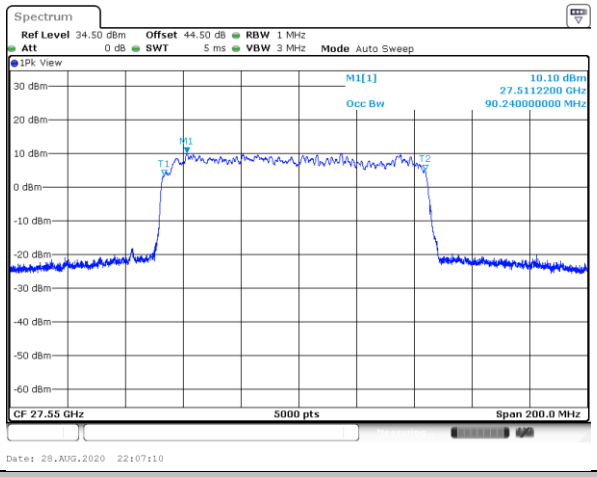
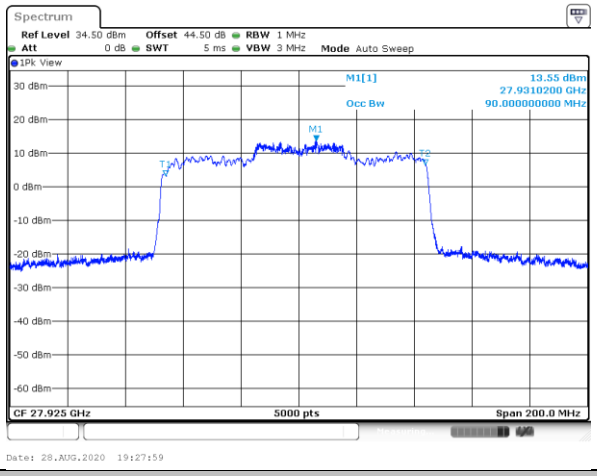
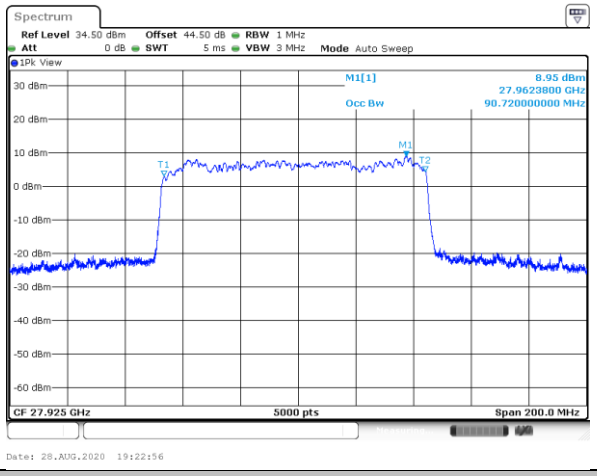
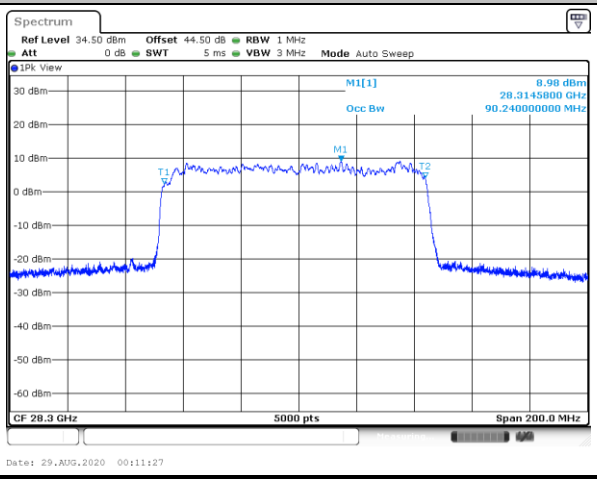
DFT-s-OFDM Module 2

NR Band n261	
Lowest Channel / 50MHz / QPSK	
	
Middle Channel / 50MHz / QPSK	**Middle Channel / 50MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

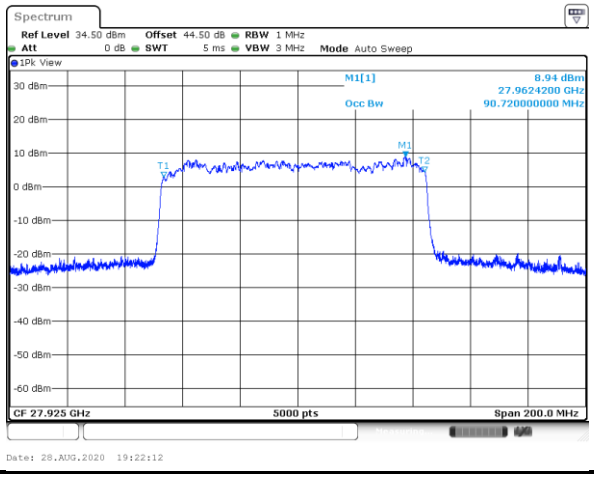
DFT-s-OFDM Module 2

NR Band n261	
Lowest Channel / 50MHz / 64QAM	
	

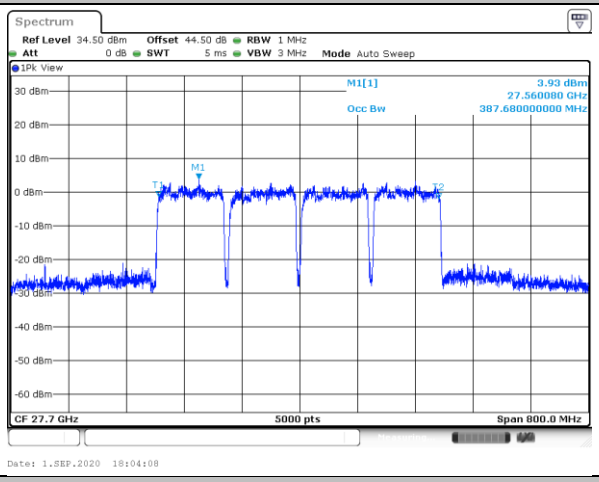
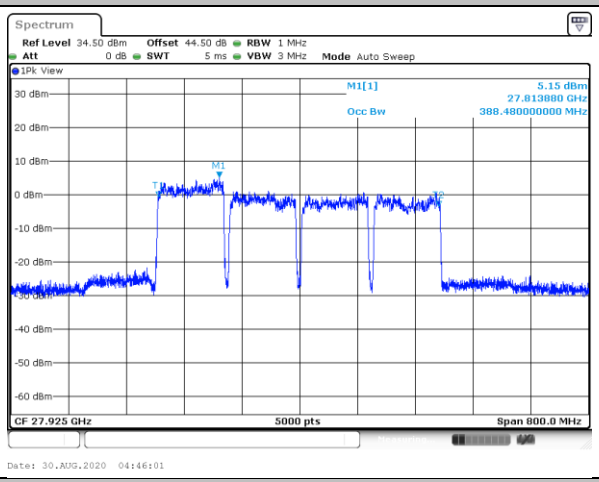
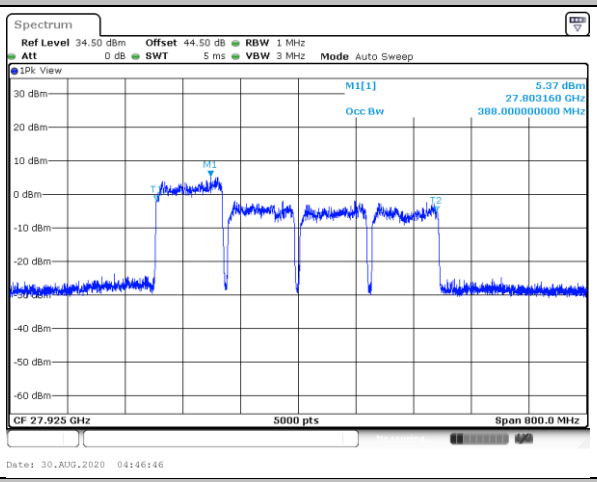
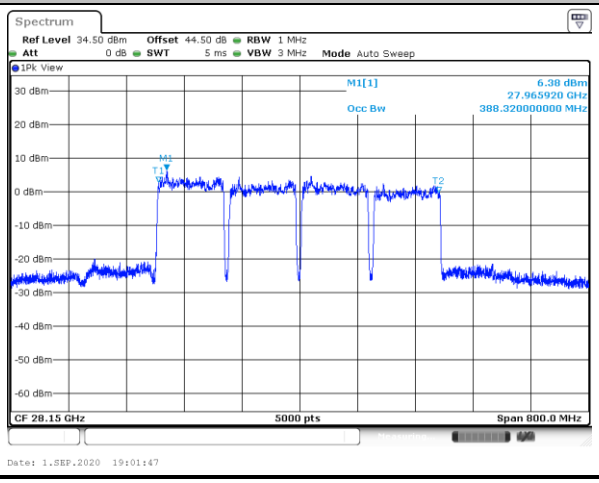
DFT-s-OFDM Module 2

NR Band n261	
Lowest Channel / 100MHz / QPSK	
	
Middle Channel / 100MHz / QPSK	**Middle Channel / 100MHz / 16QAM**
	
Highest Channel / 100MHz / QPSK	
	

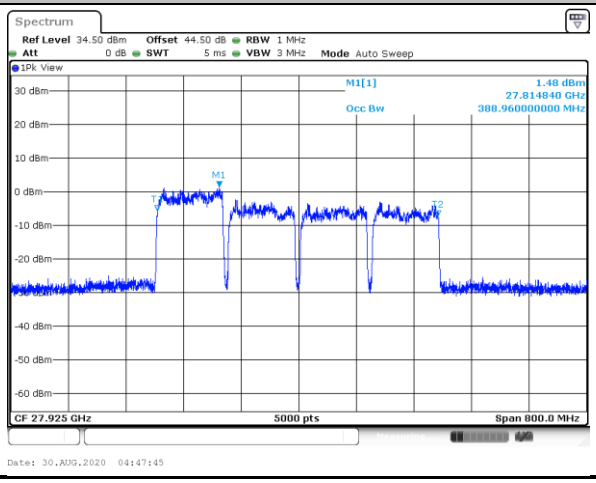
DFT-s-OFDM Module 2

NR Band n261	
Lowest Channel / 100MHz / 64QAM	
	

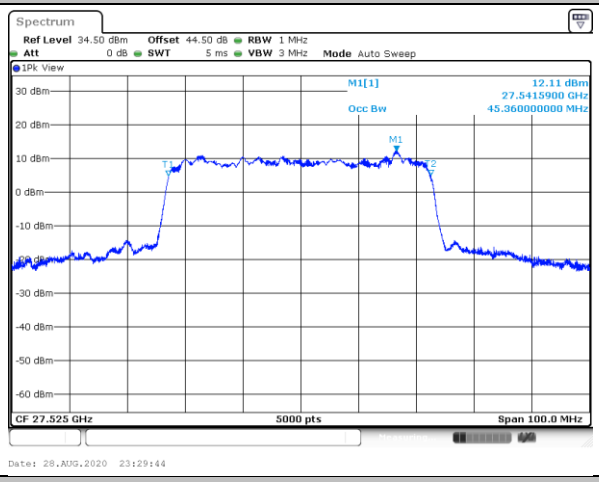
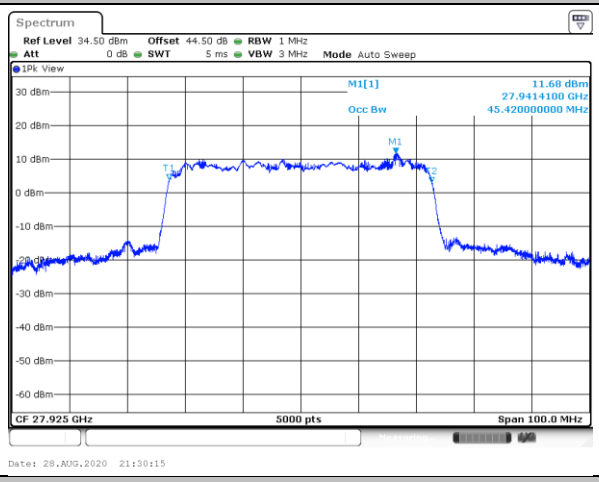
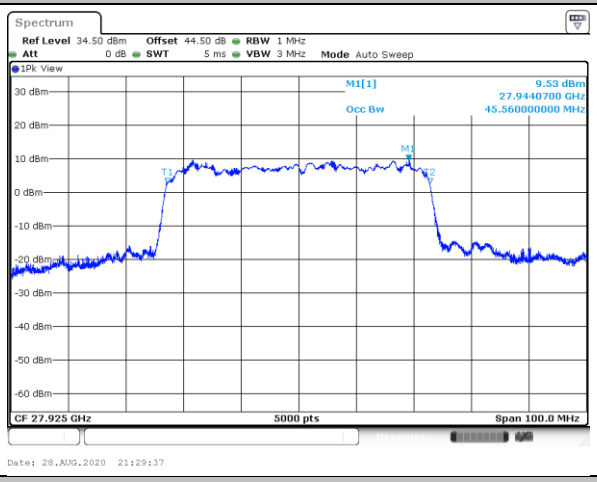
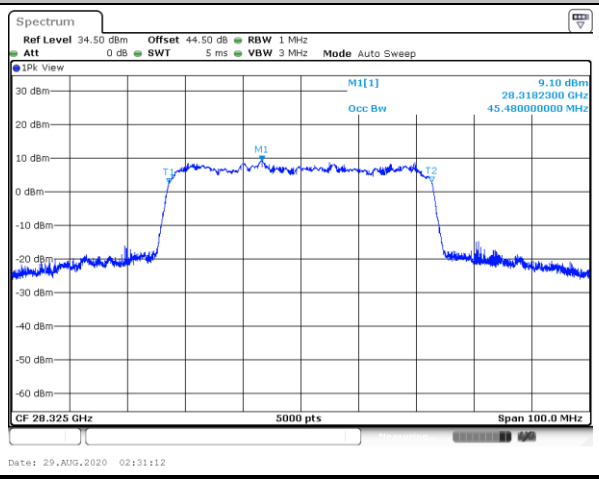
DFT-s-OFDM Module 2

NR Band n261	
Lowest Channel / 400MHz / QPSK	
	
Middle Channel / 400MHz / QPSK	**Middle Channel / 400MHz / 16QAM**
	
Highest Channel / 400MHz / QPSK	
	

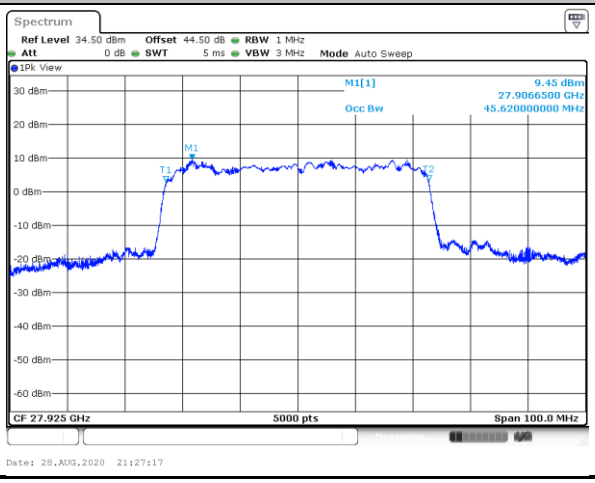
DFT-s-OFDM Module 2

NR Band n261	
Lowest Channel / 400MHz / 64QAM	
	

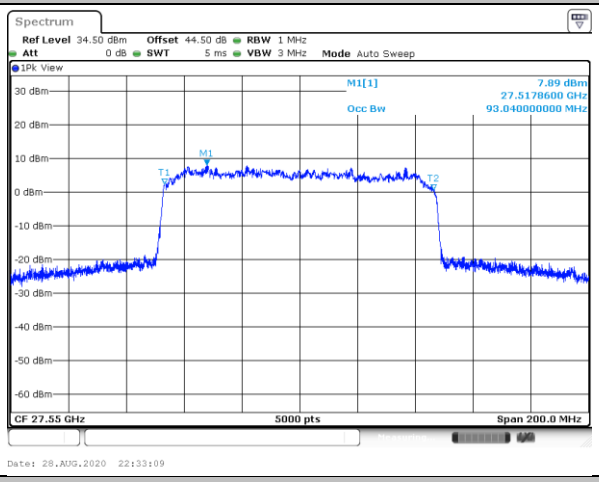
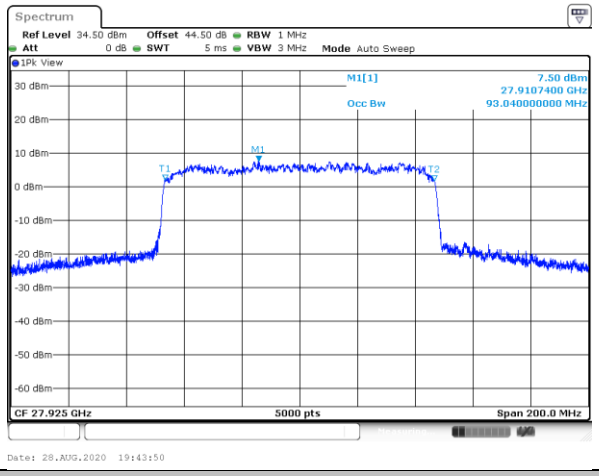
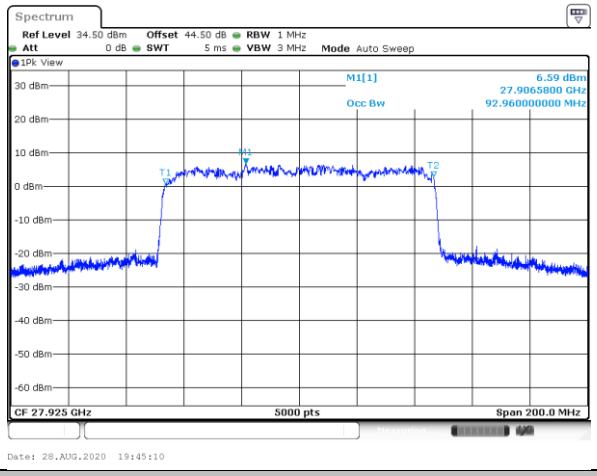
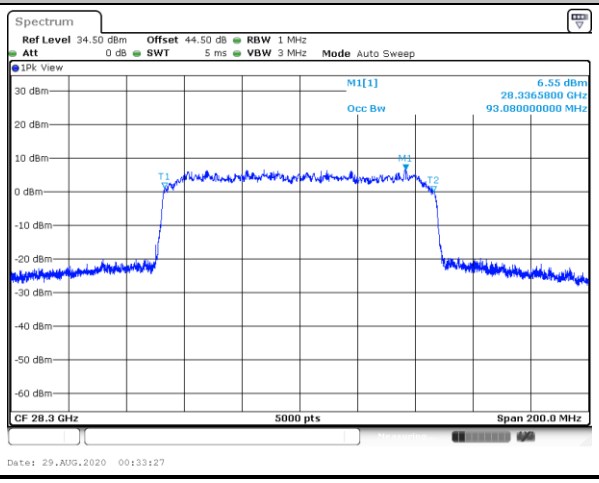
CP-OFDM Module 2

NR Band n261	
Lowest Channel / 50MHz / QPSK	
	
Middle Channel / 50MHz / QPSK	**Middle Channel / 50MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

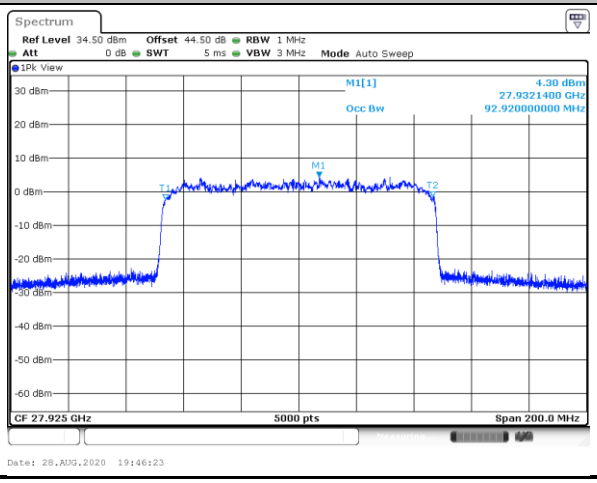
CP-OFDM Module 2

NR Band n261	
Lowest Channel / 50MHz / 64QAM	
	

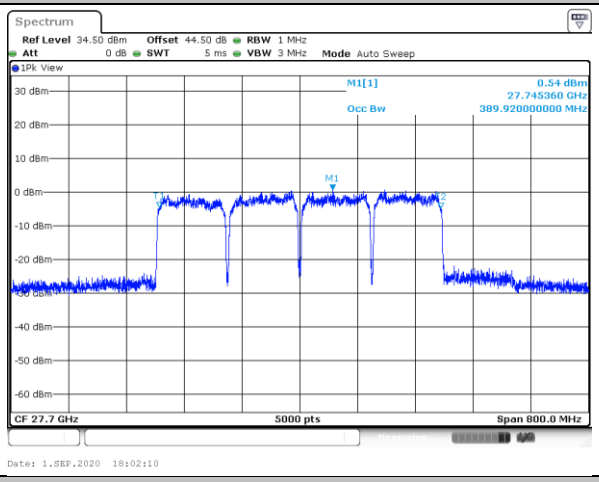
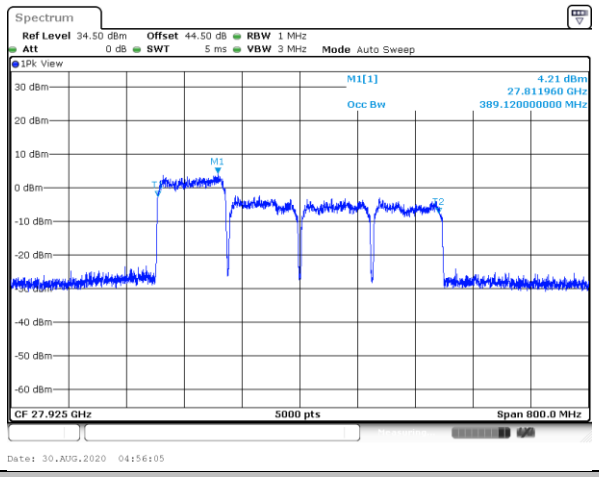
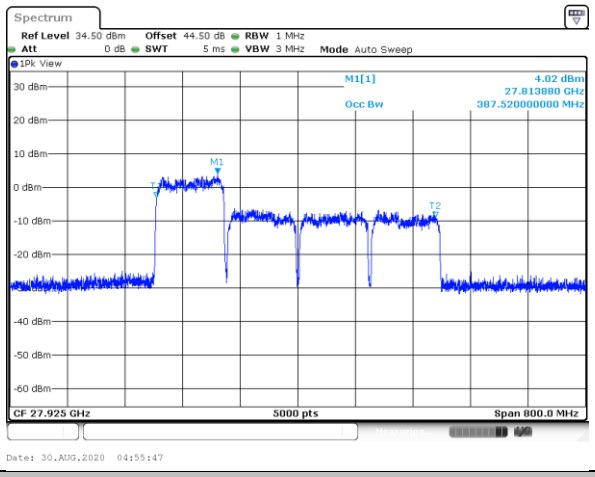
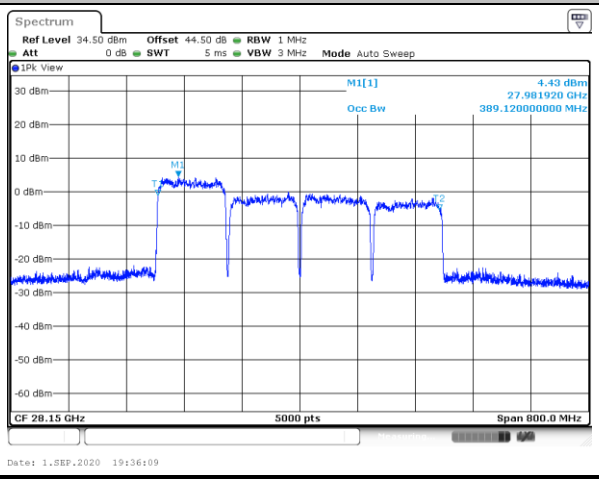
CP-OFDM Module 2

NR Band n261	
Lowest Channel / 100MHz / QPSK	
	
Middle Channel / 100MHz / QPSK	**Middle Channel / 100MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

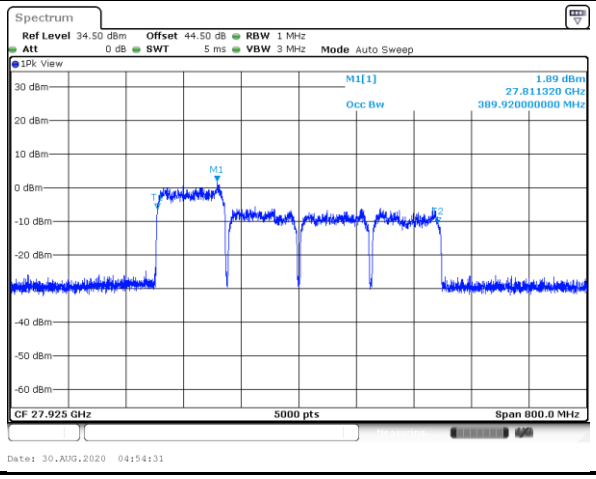
CP-OFDM Module 2

NR Band n261	
Lowest Channel / 100MHz / 64QAM	
	

CP-OFDM Module 2

NR Band n261	
Lowest Channel / 400MHz / QPSK	
	
Middle Channel / 400MHz / QPSK	**Middle Channel / 400MHz / 16QAM**
	
Highest Channel / 400MHz / QPSK	
	

CP-OFDM Module 2

NR Band n261	
Lowest Channel / 400MHz / 64QAM	
	

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 2 NR Band n261 : BE (dBm) 1 RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≦-5	-15.14	-17.84	-22.07
	>10%OB	≦-13	-30.44	-30.3	-27.37
High CH	0~10%OB	≦-5	-19.52	-21.94	-32.45
	>10%OB	≦-13	-32.59	-32.71	-31.90
Result			Compliance		

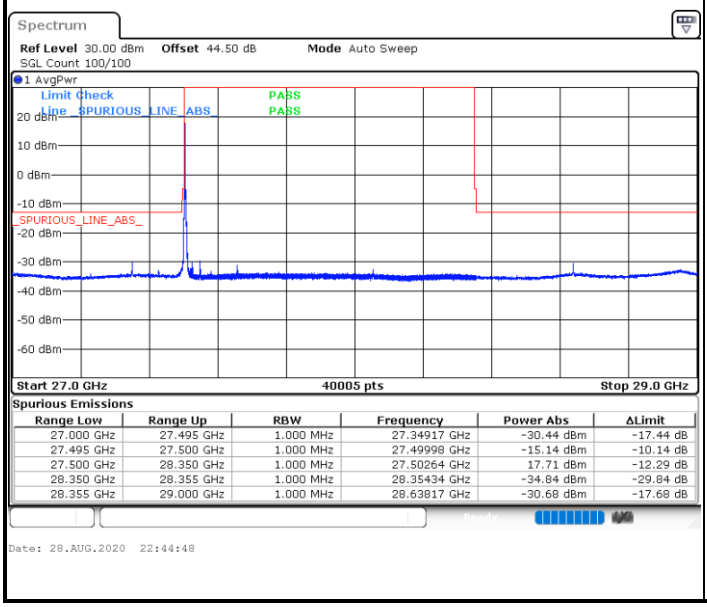
Mode			CP-OFDM Module 2 NR Band n261 : BE (dBm) 1 RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≦-5	-18.11	-19.18	-25.03
	>10%OB	≦-13	-32.05	-32.1	-25.73
High CH	0~10%OB	≦-5	-19.16	-26.97	-32.68
	>10%OB	≦-13	-32.49	-32.98	-31.55
Result			Compliance		

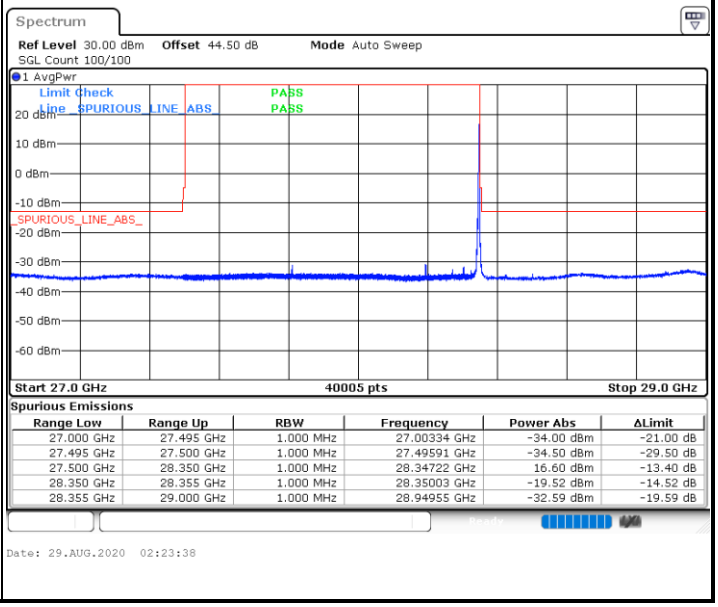
Mode			DFT-s-OFDM Module 2 NR Band n261 : BE (dBm) Full RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≦-5	-26.75	-28.94	-31.66
	>10%OB	≦-13	-27.49	-29.82	-32.30
High CH	0~10%OB	≦-5	-27.31	-30.23	-31.47
	>10%OB	≦-13	-29.91	-32.3	-32.48
Result			Compliance		

Mode			CP-OFDM Module 2 NR Band n261 : BE (dBm) Full RB		
BW			50MHz	100MHz	400MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≦-5	-25.93	-28.41	-33.00
	>10%OB	≦-13	-27.56	-29.71	-33.46
High CH	0~10%OB	≦-5	-26.42	-29.35	-33.32
	>10%OB	≦-13	-29.8	-31.11	-32.91
Result			Compliance		

DFT-s-OFDM Module 2

NR Band n261 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**





DFT-s-OFDM Module 2

NR Band n261 / 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**