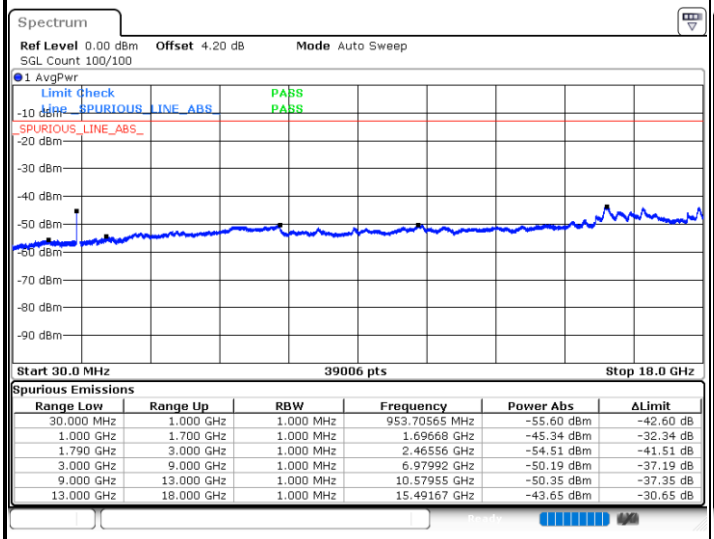
FR1 n66 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

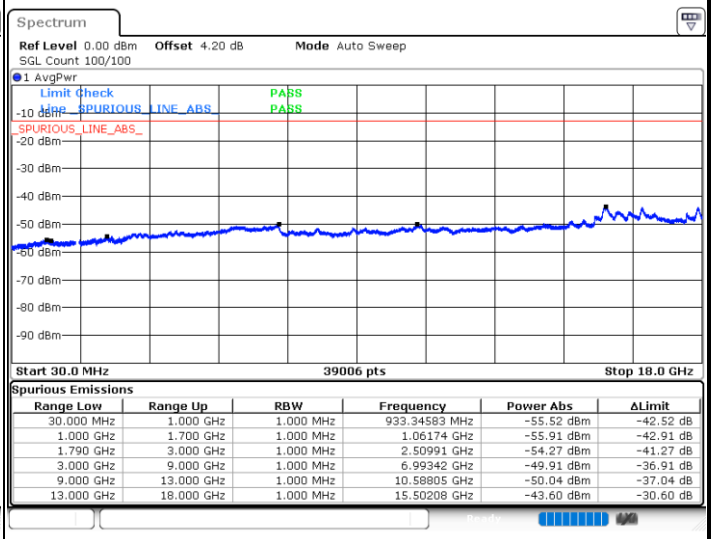


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	953.70565 MHz	-55.60 dBm	-42.60 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-45.34 dBm	-32.34 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.46556 GHz	-54.51 dBm	-41.51 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.97992 GHz	-50.19 dBm	-37.19 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57955 GHz	-50.35 dBm	-37.35 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.49167 GHz	-43.65 dBm	-30.65 dB

Date: 14.JAN.2021 05:21:40

Middle Channel / 1RB

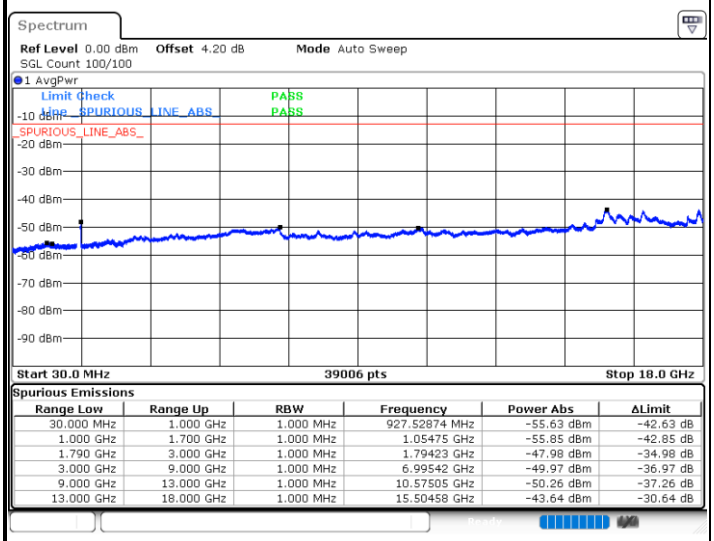


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	933.34583 MHz	-55.52 dBm	-42.52 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.06174 GHz	-55.91 dBm	-42.91 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.50991 GHz	-54.27 dBm	-41.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99342 GHz	-49.91 dBm	-36.91 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58805 GHz	-50.04 dBm	-37.04 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50208 GHz	-43.60 dBm	-30.60 dB

Date: 14.JAN.2021 05:26:50

Highest Channel / 1RB



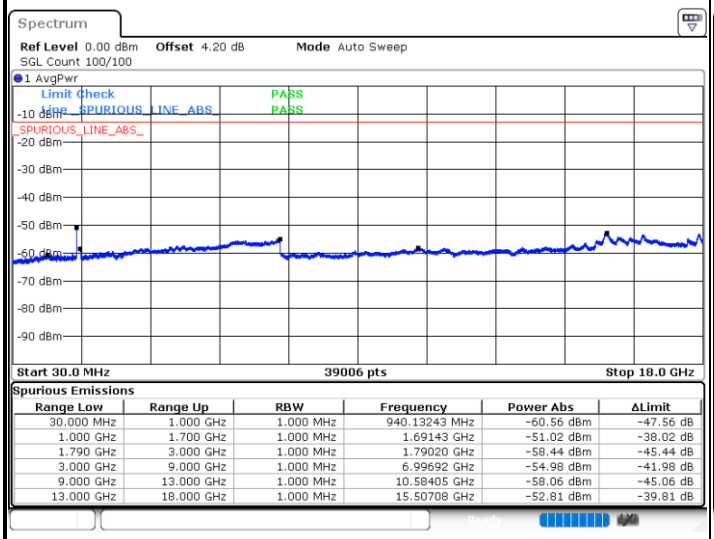
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	927.52874 MHz	-55.63 dBm	-42.63 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.05475 GHz	-55.85 dBm	-42.85 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79423 GHz	-47.98 dBm	-34.98 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99542 GHz	-49.97 dBm	-36.97 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57505 GHz	-50.26 dBm	-37.26 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50458 GHz	-43.64 dBm	-30.64 dB

Date: 14.JAN.2021 05:32:46

FR1 n66 / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

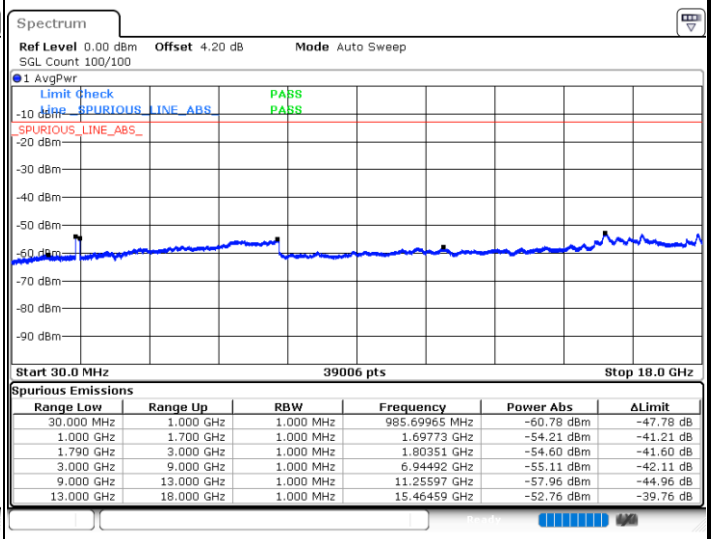


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-60.56 dBm	-47.56 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69143 GHz	-51.02 dBm	-38.02 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-58.44 dBm	-45.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99692 GHz	-54.98 dBm	-41.98 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58405 GHz	-58.06 dBm	-45.06 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50708 GHz	-52.81 dBm	-39.81 dB

Date: 14.JAN.2021 03:47:11

Middle Channel / 1RB

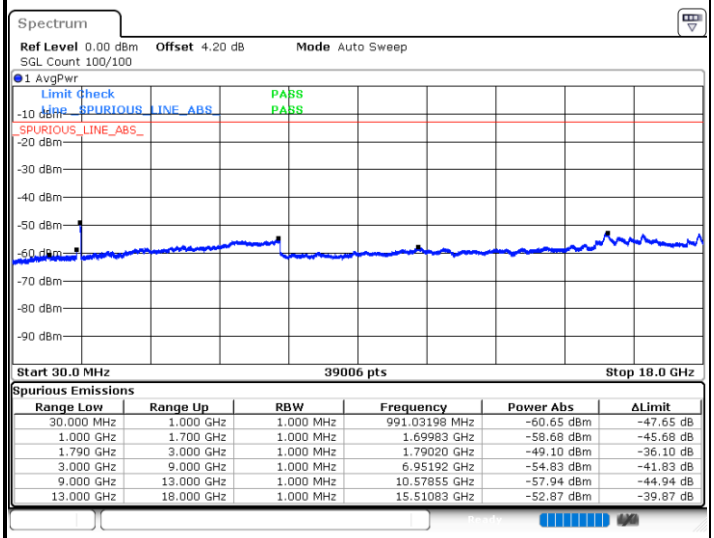


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.69965 MHz	-60.78 dBm	-47.78 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-54.21 dBm	-41.21 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.80351 GHz	-54.60 dBm	-41.60 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94492 GHz	-55.11 dBm	-42.11 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.25597 GHz	-57.96 dBm	-44.96 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46459 GHz	-52.76 dBm	-39.76 dB

Date: 14.JAN.2021 03:43:38

Highest Channel / 1RB



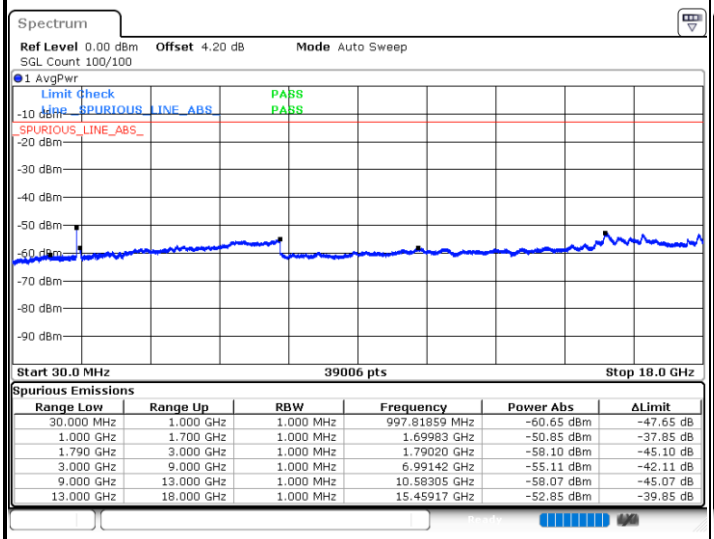
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.03198 MHz	-60.65 dBm	-47.65 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-58.68 dBm	-45.68 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-49.10 dBm	-36.10 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95192 GHz	-54.83 dBm	-41.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57855 GHz	-57.94 dBm	-44.94 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.51083 GHz	-52.87 dBm	-39.87 dB

Date: 14.JAN.2021 04:00:16

FR1 n66 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

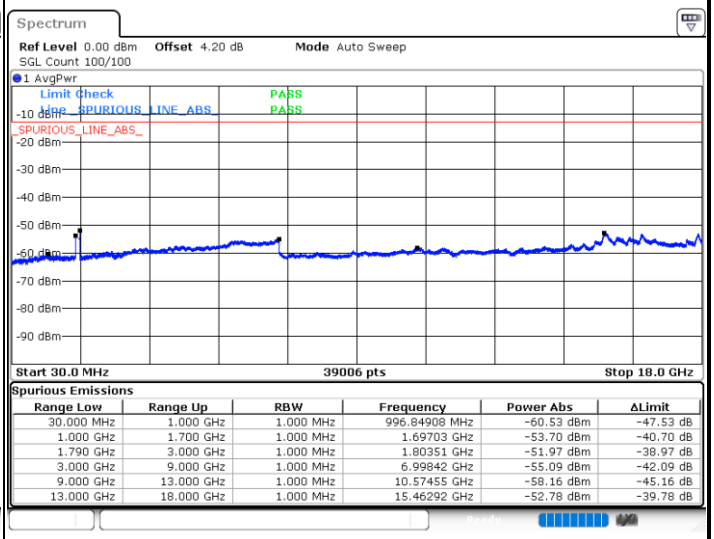


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-60.65 dBm	-47.65 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-50.85 dBm	-37.85 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-58.10 dBm	-45.10 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99142 GHz	-55.11 dBm	-42.11 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58305 GHz	-58.07 dBm	-45.07 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.45917 GHz	-52.85 dBm	-39.85 dB

Date: 14.JAN.2021 03:51:32

Middle Channel / 1RB

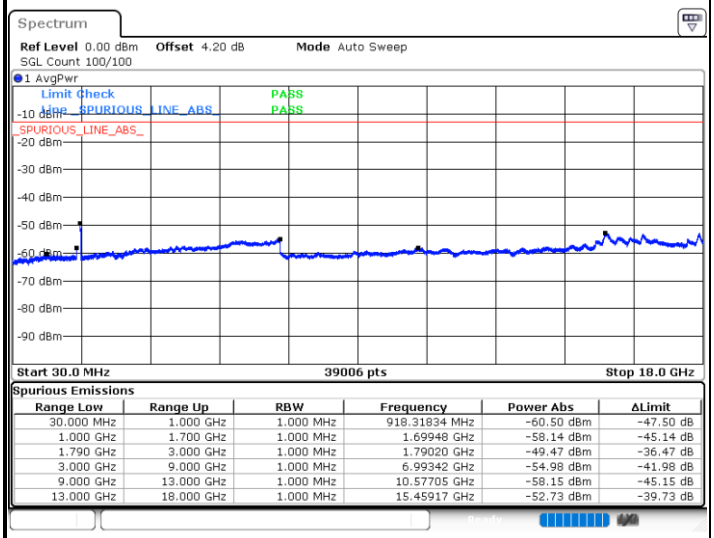


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.84908 MHz	-60.53 dBm	-47.53 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69703 GHz	-53.70 dBm	-40.70 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.80351 GHz	-51.97 dBm	-38.97 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99842 GHz	-55.09 dBm	-42.09 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57455 GHz	-58.16 dBm	-45.16 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46292 GHz	-52.78 dBm	-39.78 dB

Date: 14.JAN.2021 03:40:45

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	918.31834 MHz	-60.50 dBm	-47.50 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-58.14 dBm	-45.14 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-49.47 dBm	-36.47 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99342 GHz	-54.98 dBm	-41.98 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57705 GHz	-58.15 dBm	-45.15 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.45917 GHz	-52.73 dBm	-39.73 dB

Date: 14.JAN.2021 03:58:44

Frequency Stability

Test Conditions		NR n66 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

FR1 n66 NSA

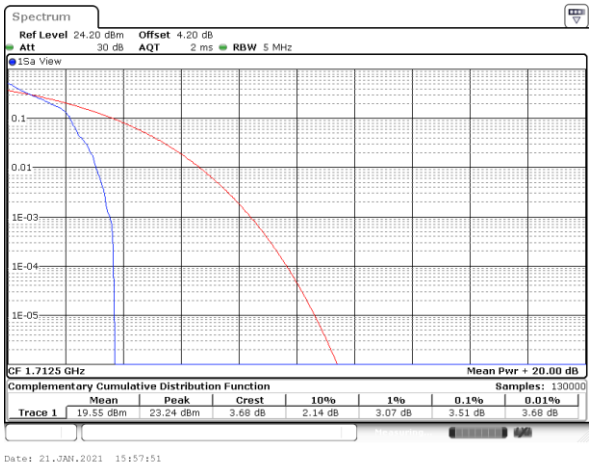
Peak-to-Average Ratio

Mode	FR1 n66+48A / 5MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.06	4.99	5.30	PASS
Middle CH	3.54	4.06	5.13	5.30	
Highest CH	3.54	4.00	5.07	5.30	

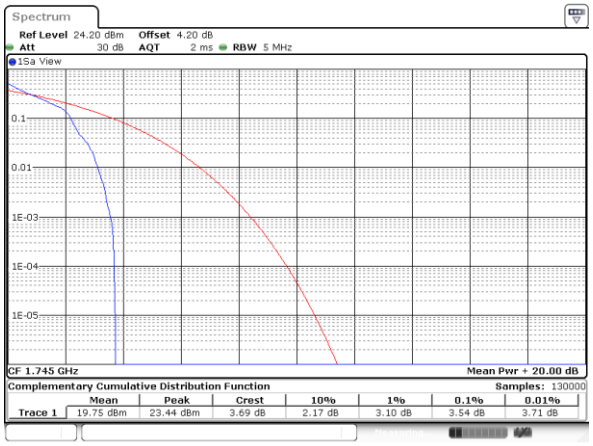
FR1 n66+48A / 5MHz / DFT-S OFDM

PI/2 BPSK

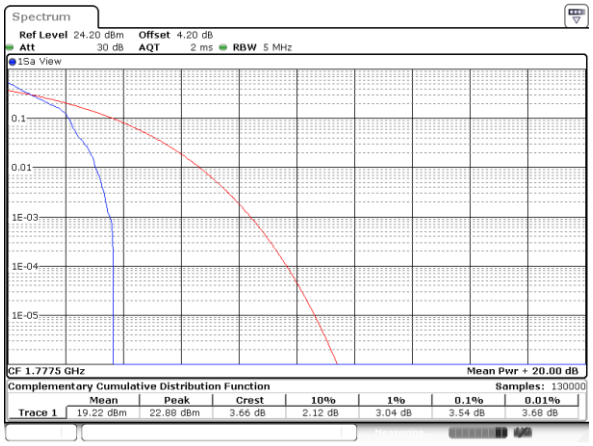
Lowest Channel / 1RB



Middle Channel / 1 RB

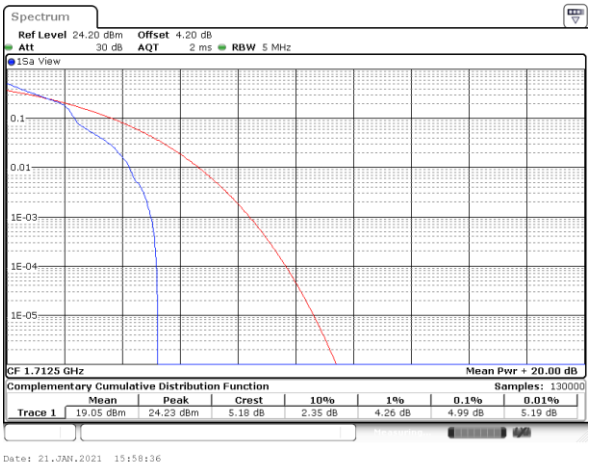


Highest Channel / 1 RB

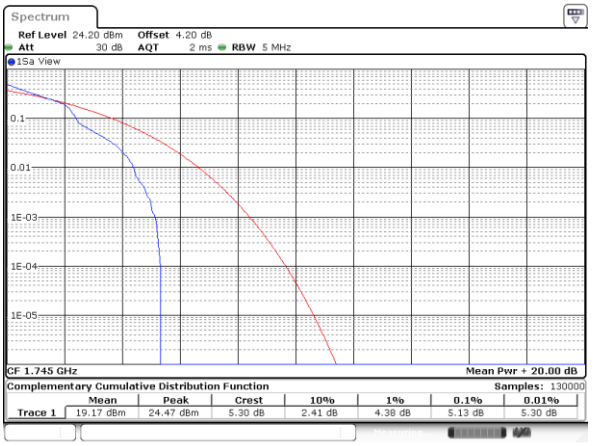


QPSK

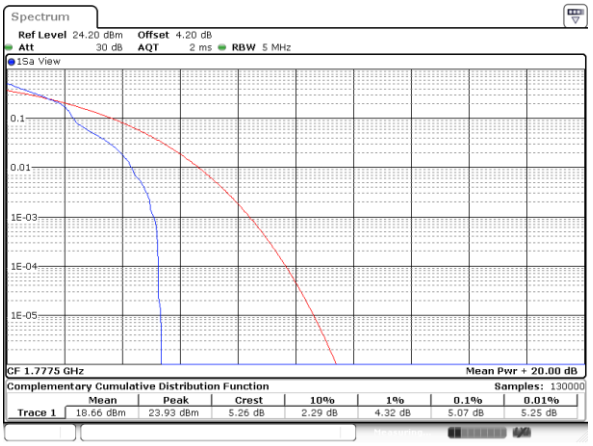
Lowest Channel / 1RB



Middle Channel / 1 RB



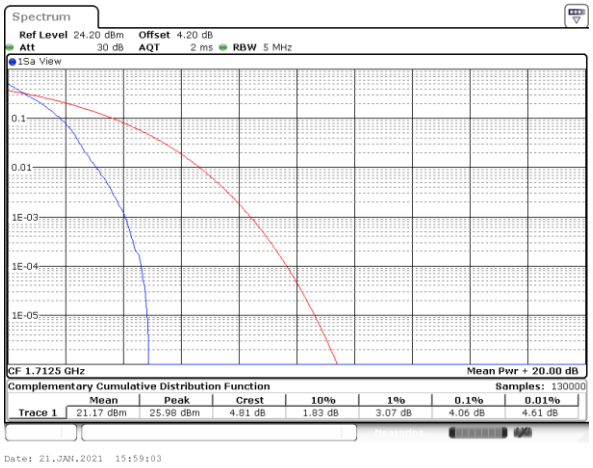
Highest Channel / 1 RB



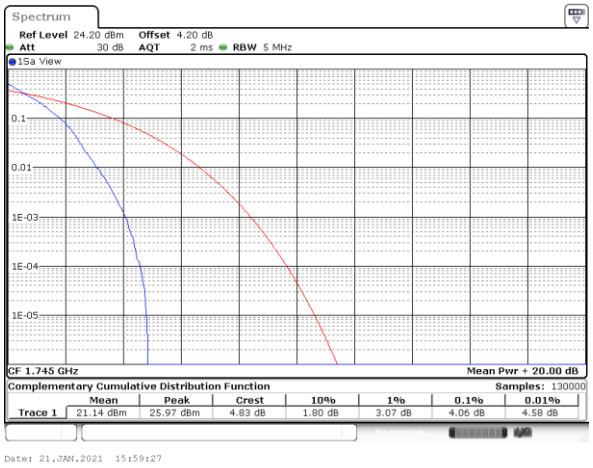
FR1 n66+48A / 5MHz / DFT-S OFDM

PI/2 BPSK

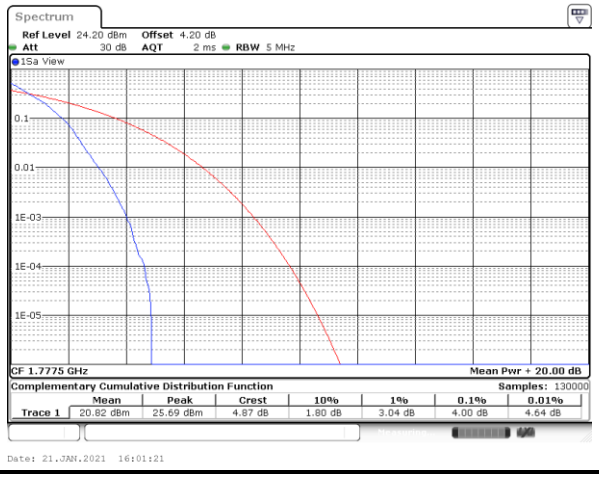
Lowest Channel / Full RB



Middle Channel / Full RB

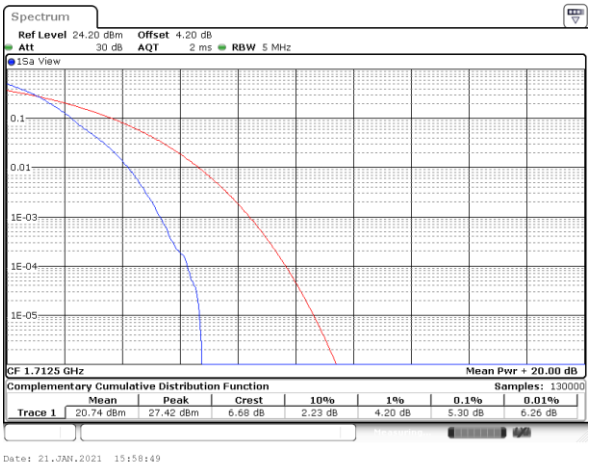


Highest Channel / Full RB

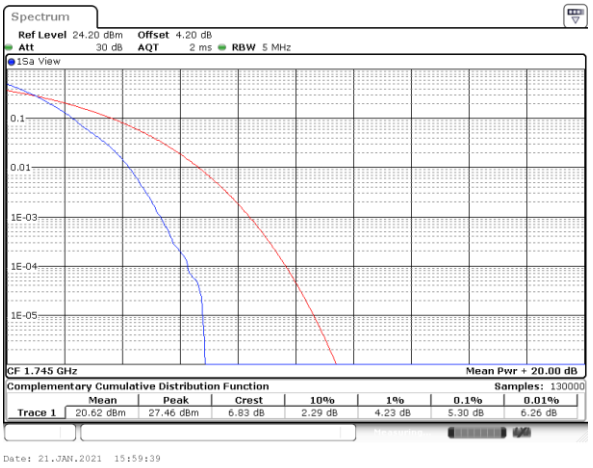


QPSK

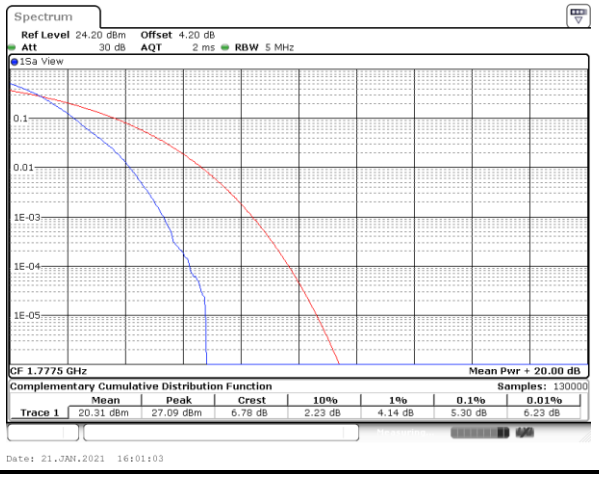
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB



26dB Bandwidth

Mode	FR1 n66+48A : 26dB BW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.92	4.88	4.92	4.84				

Mode	FR1 n66+48A : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.95	9.81	9.79	9.83				

Mode	FR1 n66+48A : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.96	14.93	14.98	14.84				

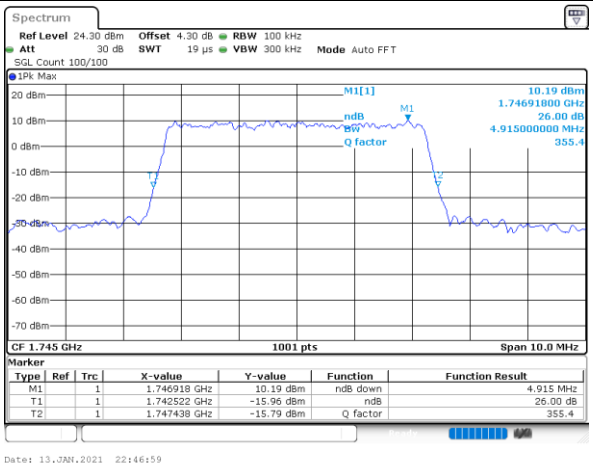
Mode	FR1 n66+48A : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.90	19.90	19.90	19.98				

Mode	FR1 n66+48A : 26dB BW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	41.00	40.84	40.92	41.08				

FR1 n66+48A / 5MHz / CP-OFDM

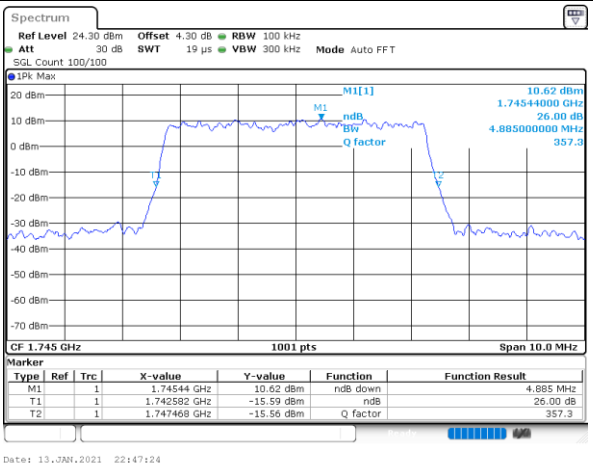
QPSK

Middle Channel



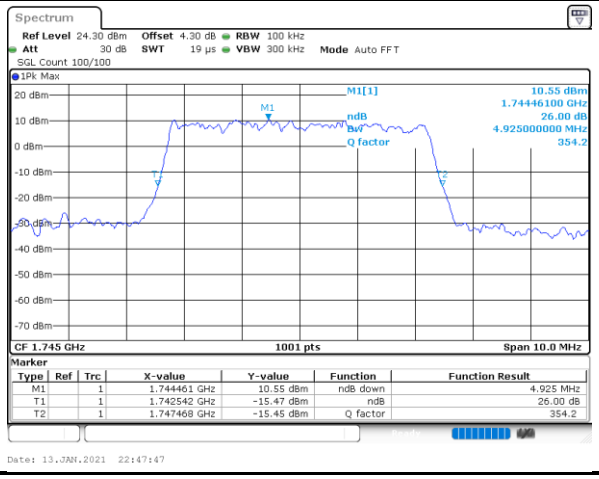
16QAM

Middle Channel



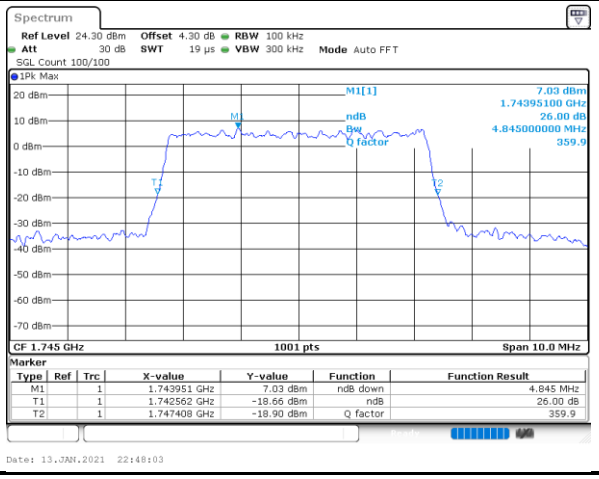
64QAM

Middle Channel



256QAM

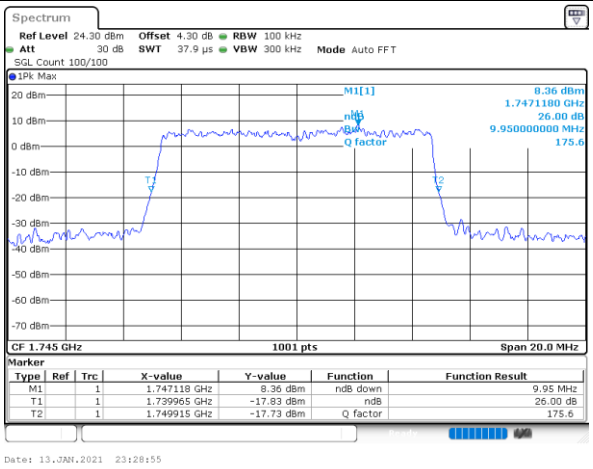
Middle Channel



FR1 n66+48A / 10MHz / CP-OFDM

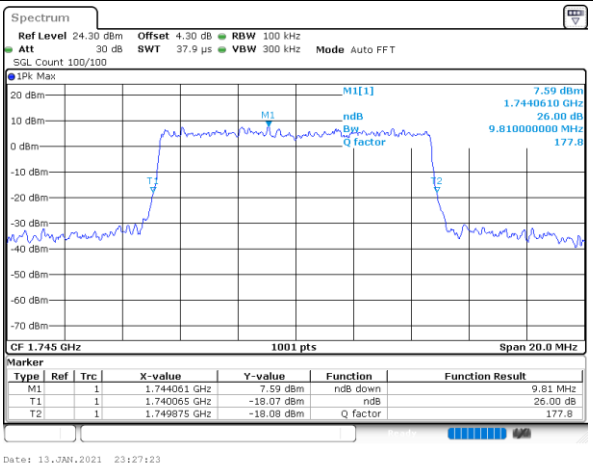
QPSK

Middle Channel



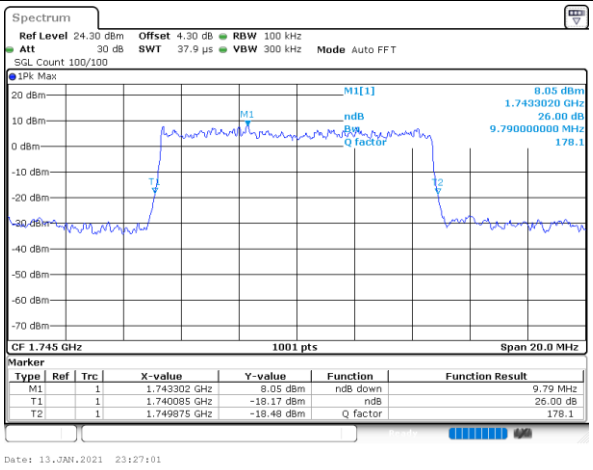
16QAM

Middle Channel



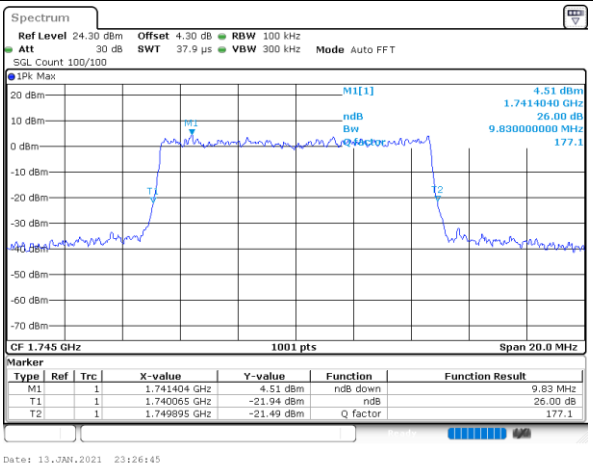
64QAM

Middle Channel



256QAM

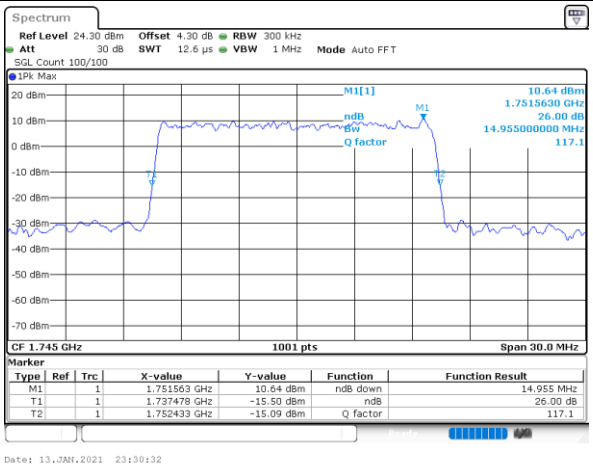
Middle Channel



FR1 n66+48A / 15MHz / CP-OFDM

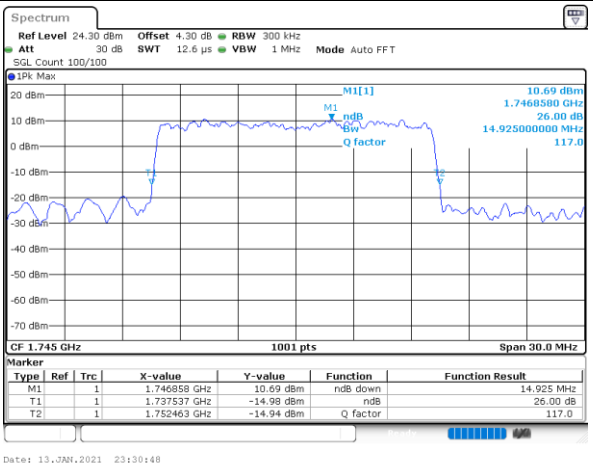
QPSK

Middle Channel



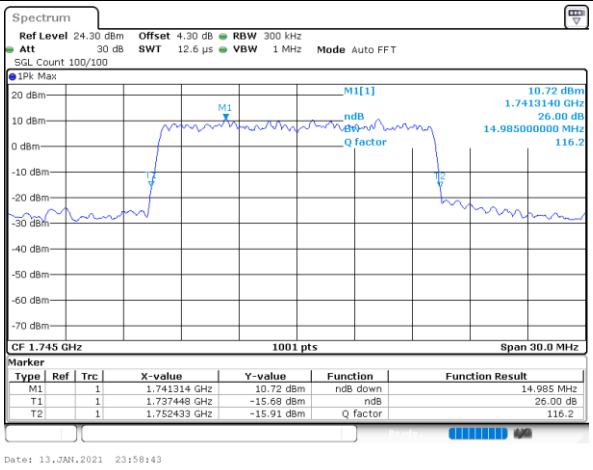
16QAM

Middle Channel



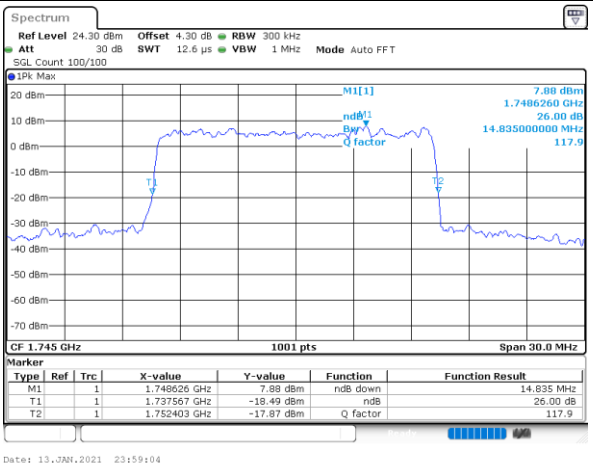
64QAM

Middle Channel



256QAM

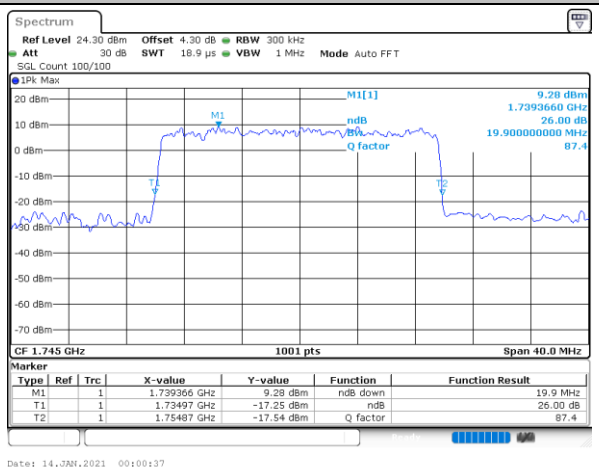
Middle Channel



FR1 n66+48A / 20MHz / CP-OFDM

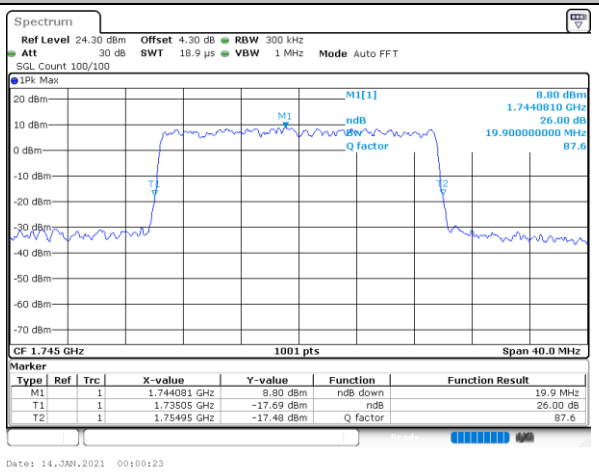
QPSK

Middle Channel



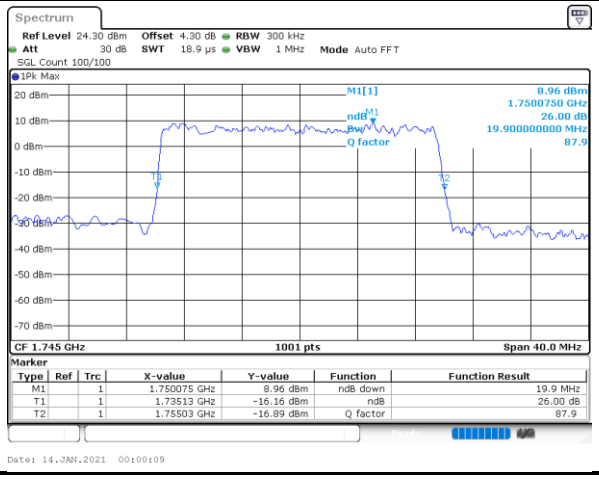
16QAM

Middle Channel



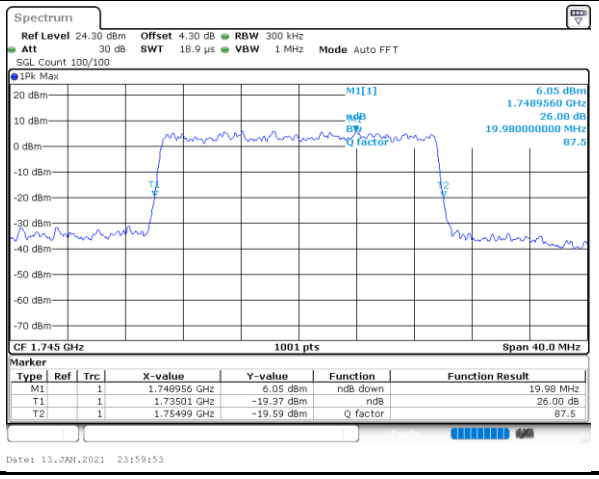
64QAM

Middle Channel



256QAM

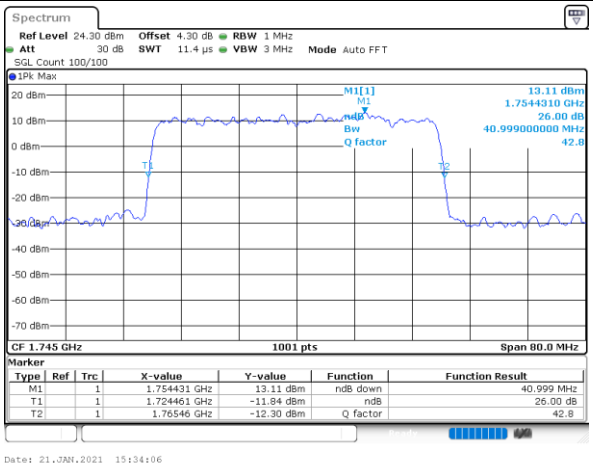
Middle Channel



FR1 n66+48A / 40MHz / CP-OFDM

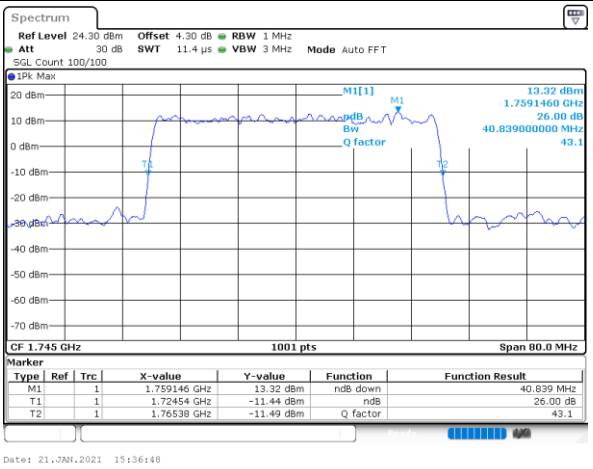
QPSK

Middle Channel



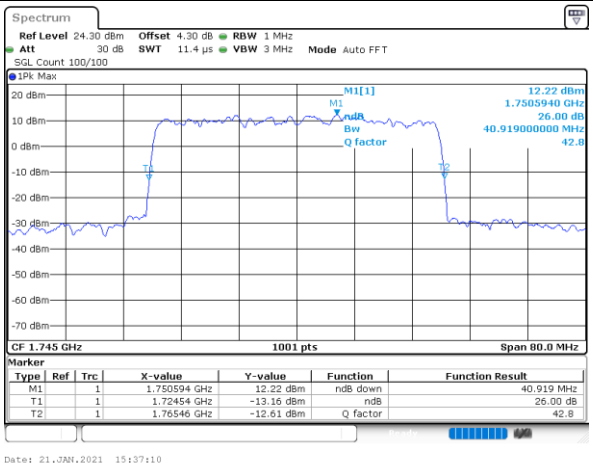
16QAM

Middle Channel



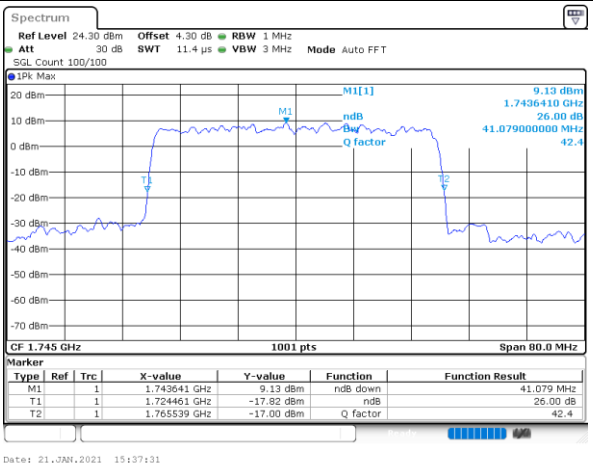
64QAM

Middle Channel



256QAM

Middle Channel



Occupied Bandwidth

Mode	FR1 n66+48A : OBW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.49	4.48	4.48	4.48				

Mode	FR1 n66+48A : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.31	9.29	9.31	9.27				

Mode	FR1 n66+48A : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.15	14.15	14.12	14.15				

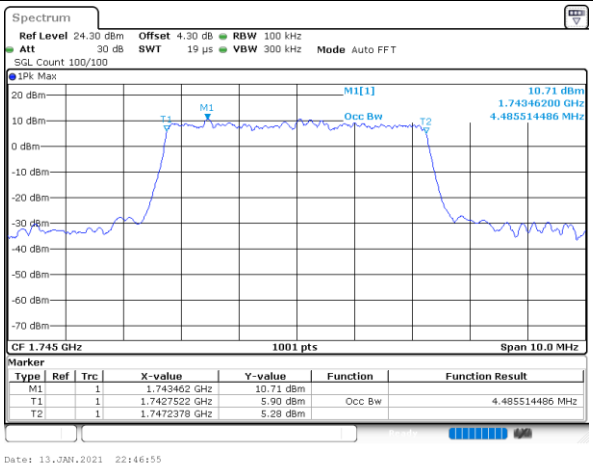
Mode	FR1 n66+48A : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.98	18.98	18.94	18.98				

Mode	FR1 n66+48A : OBW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	38.68	38.60	38.92	38.68				

FR1 n66+48A / 5MHz / CP-OFDM

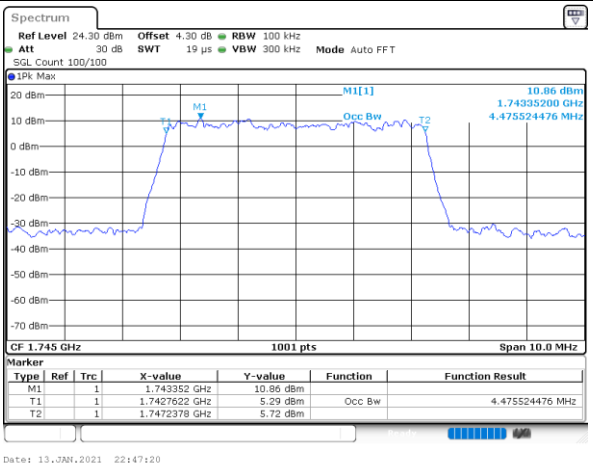
QPSK

Middle Channel



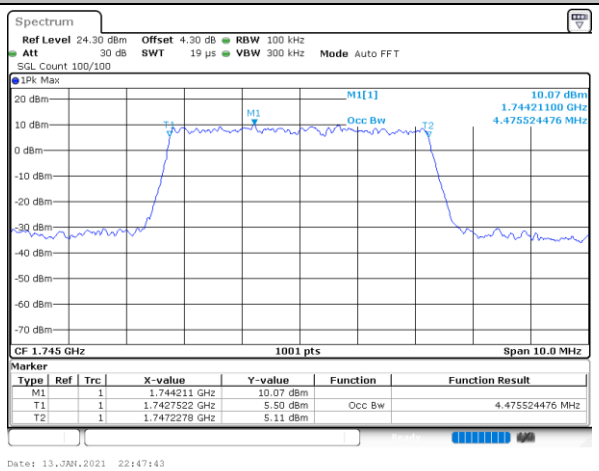
16QAM

Middle Channel



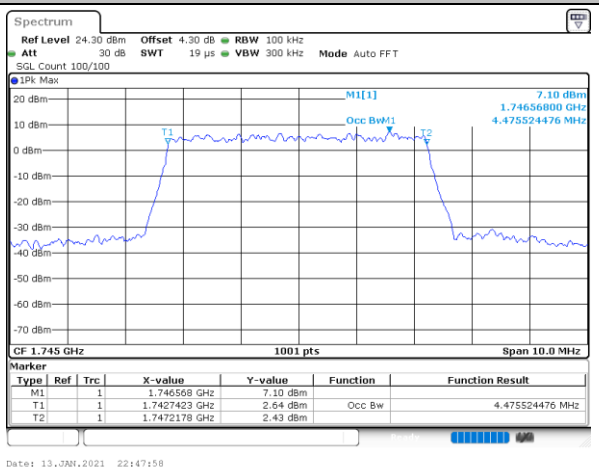
64QAM

Middle Channel



256QAM

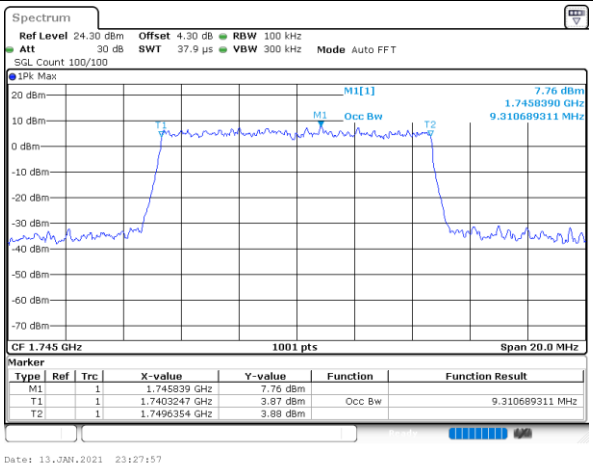
Middle Channel



FR1 n66+48A / 10MHz / CP-OFDM

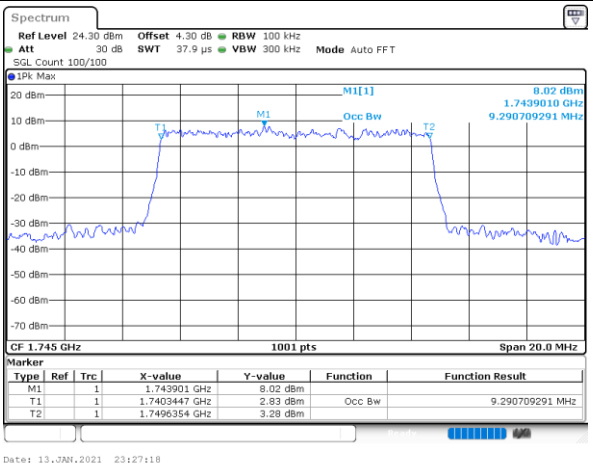
QPSK

Middle Channel



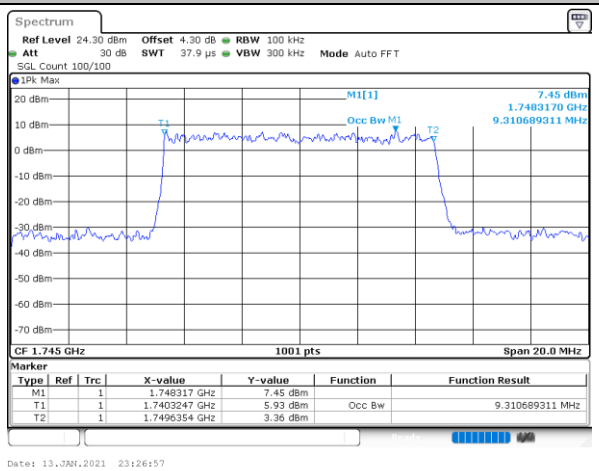
16QAM

Middle Channel



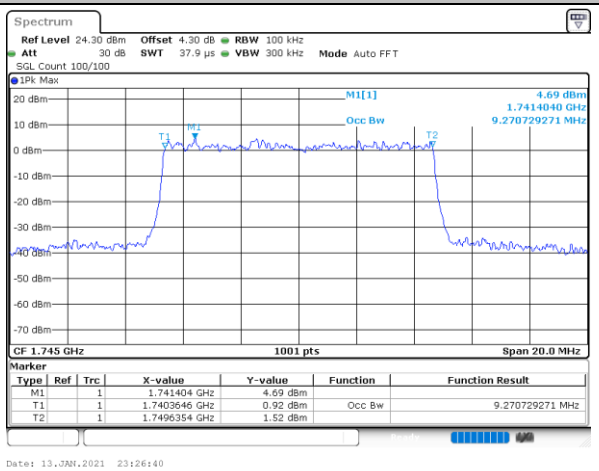
64QAM

Middle Channel



256QAM

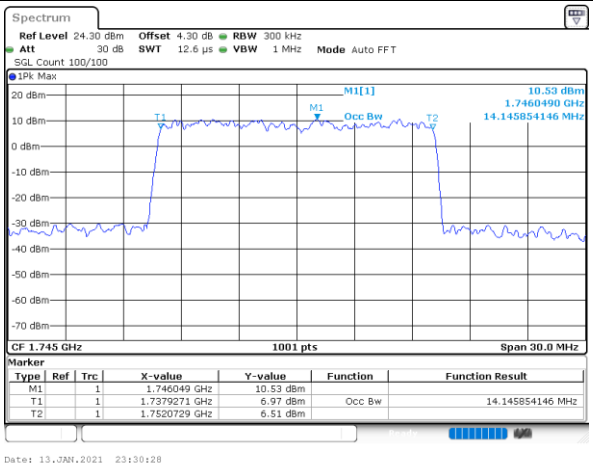
Middle Channel



FR1 n66+48A / 15MHz / CP-OFDM

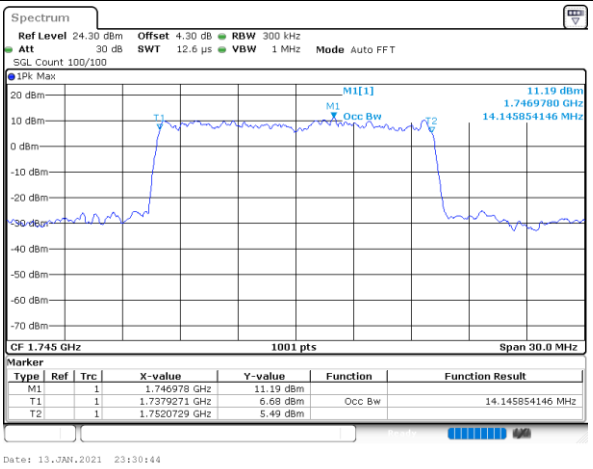
QPSK

Middle Channel



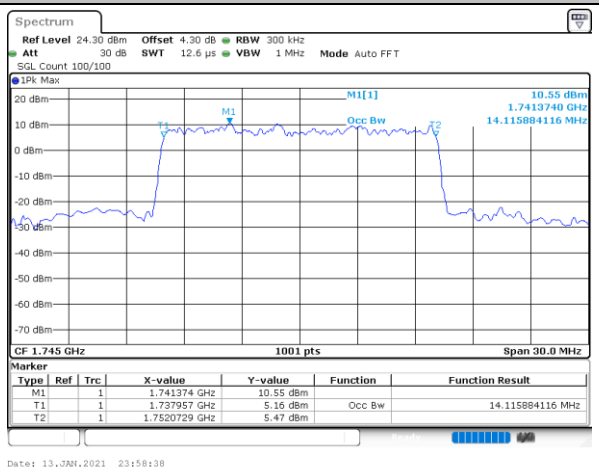
16QAM

Middle Channel



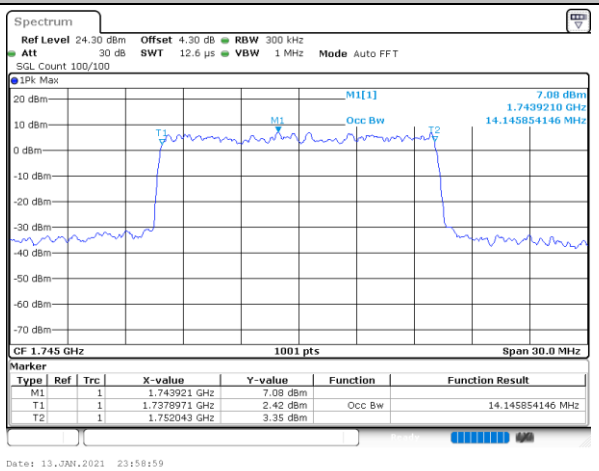
64QAM

Middle Channel



256QAM

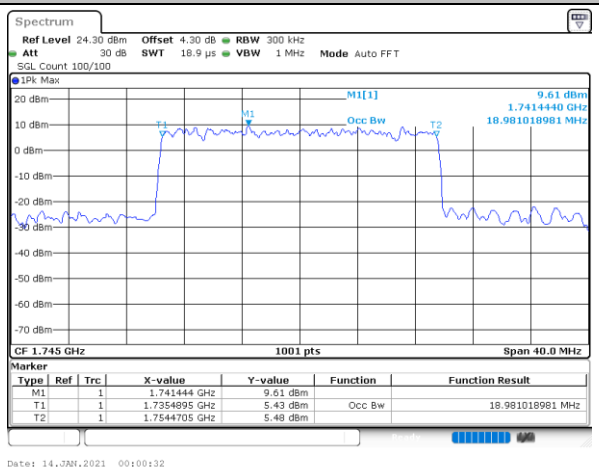
Middle Channel



FR1 n66+48A / 20MHz / CP-OFDM

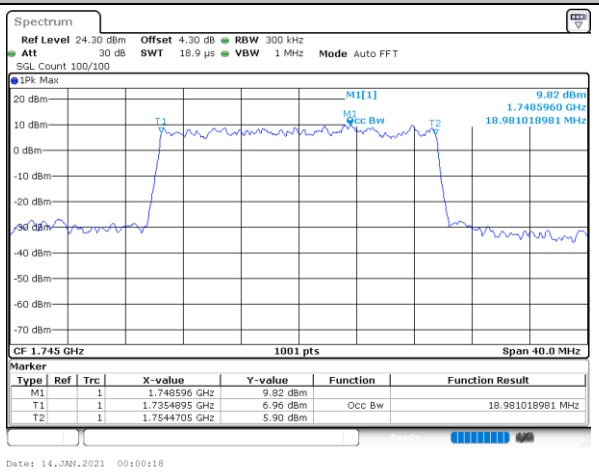
QPSK

Middle Channel



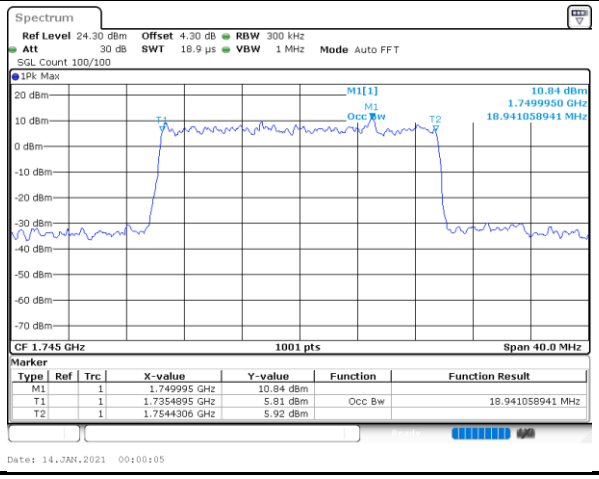
16QAM

Middle Channel



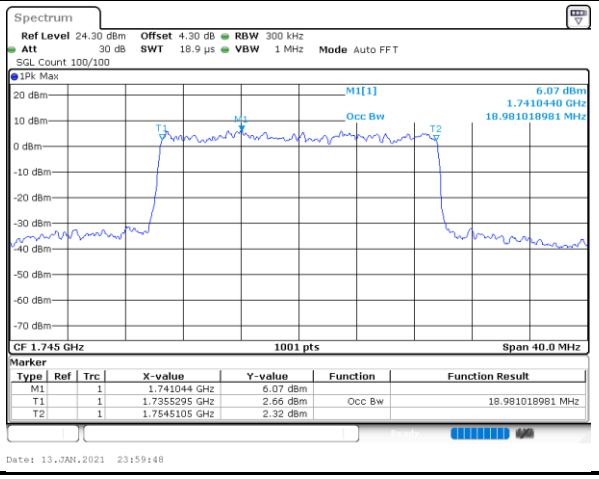
64QAM

Middle Channel



256QAM

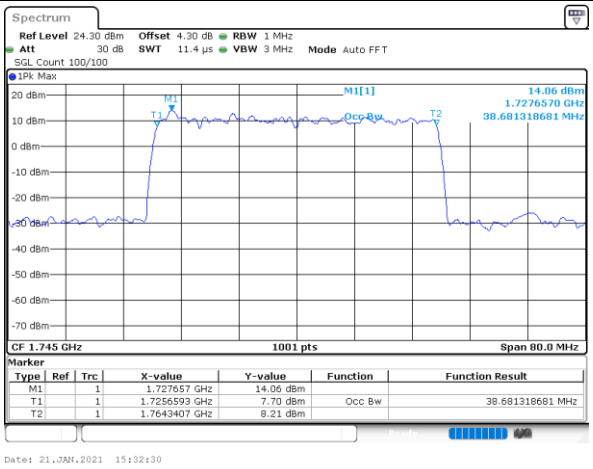
Middle Channel



FR1 n66+48A / 40MHz / CP-OFDM

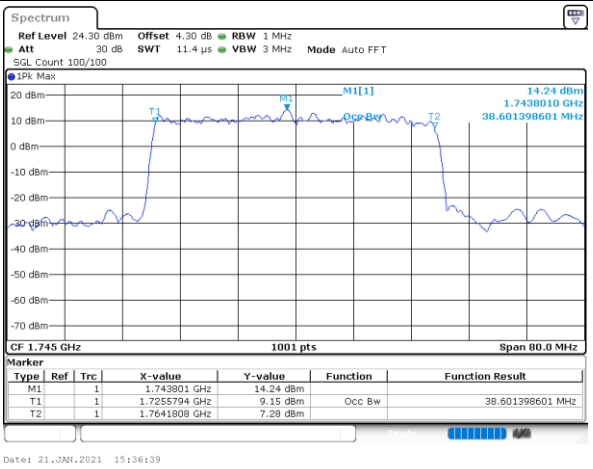
QPSK

Middle Channel



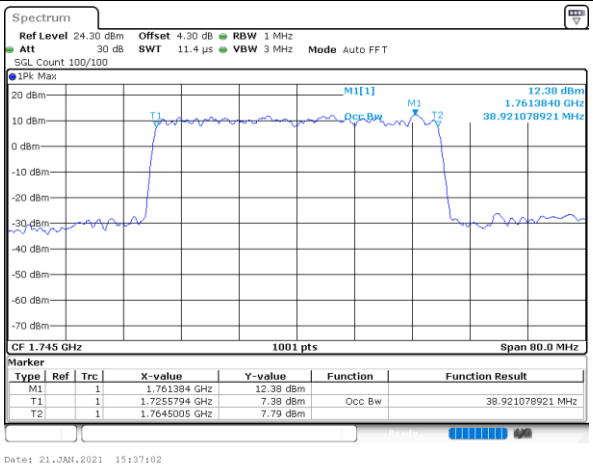
16QAM

Middle Channel



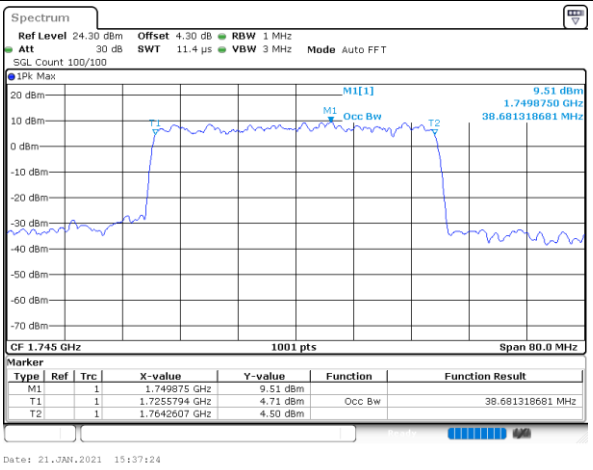
64QAM

Middle Channel

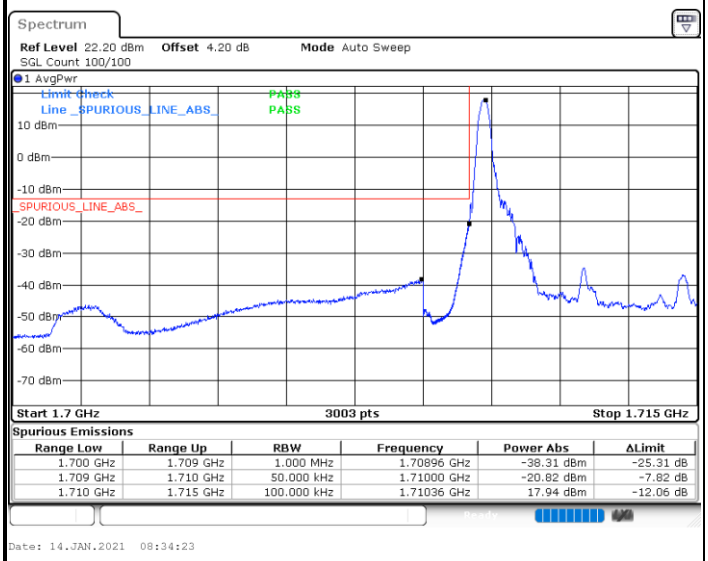
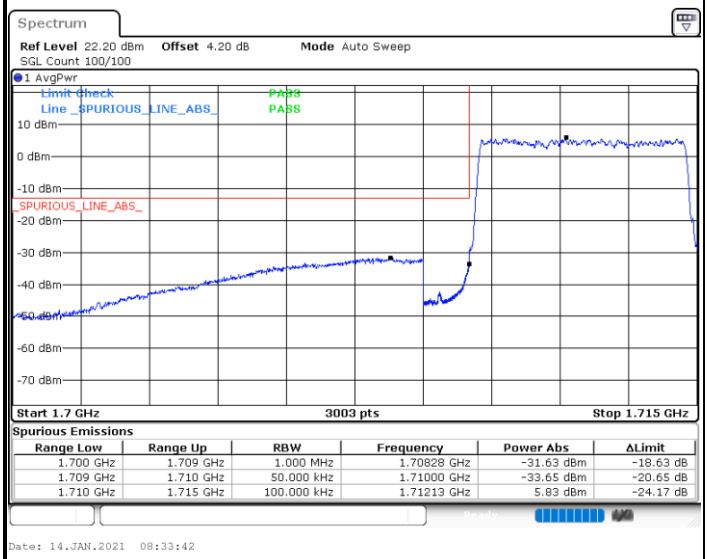


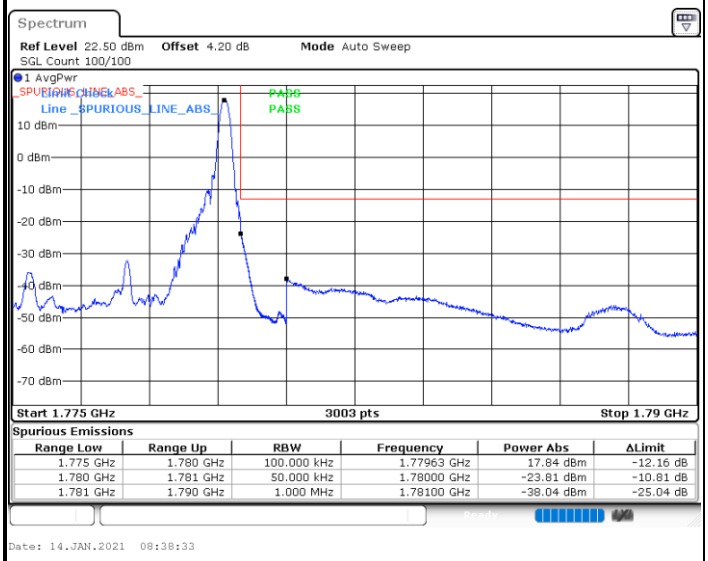
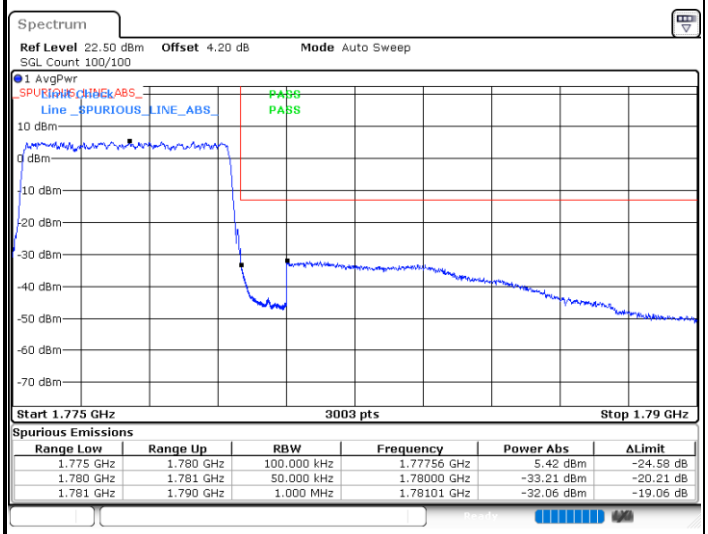
256QAM

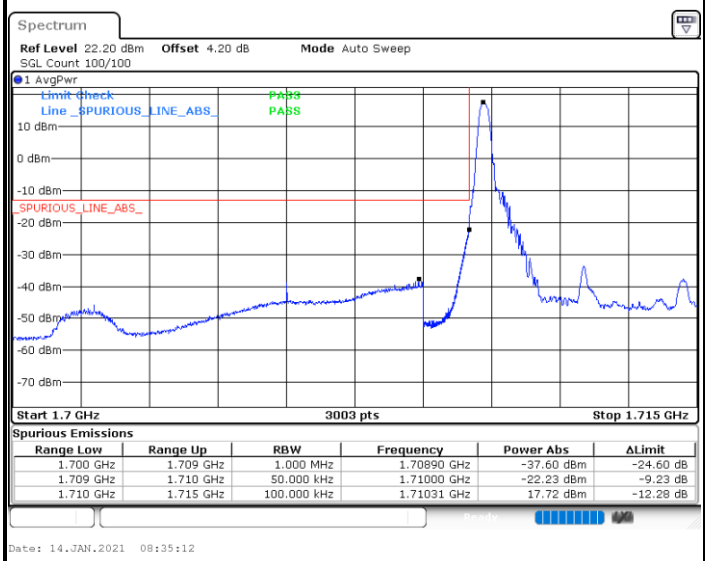
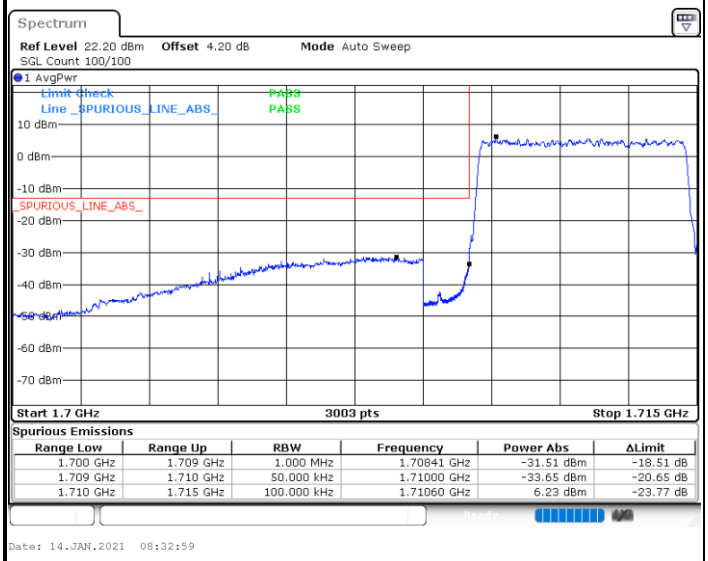
Middle Channel

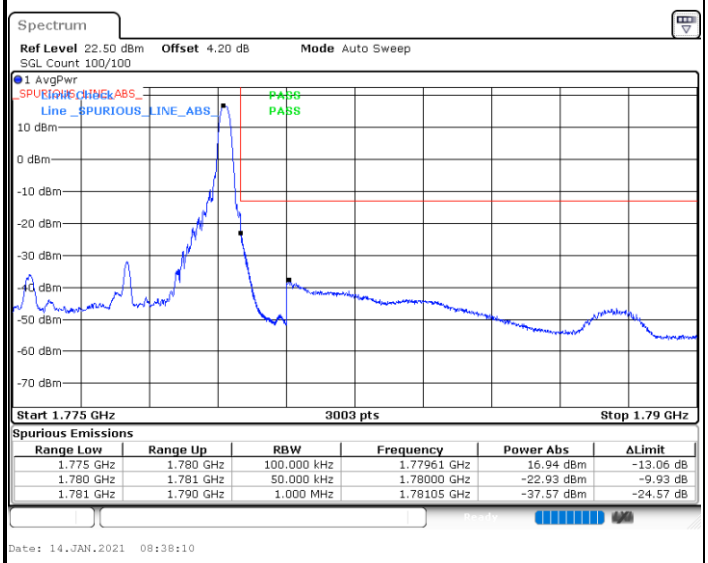
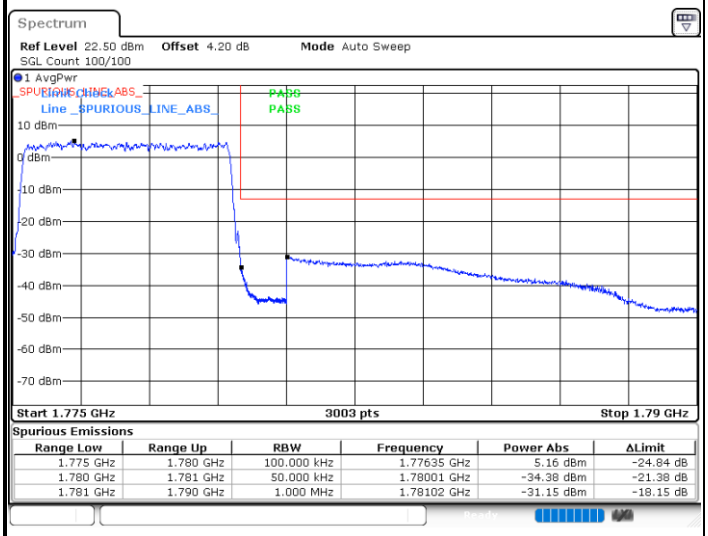


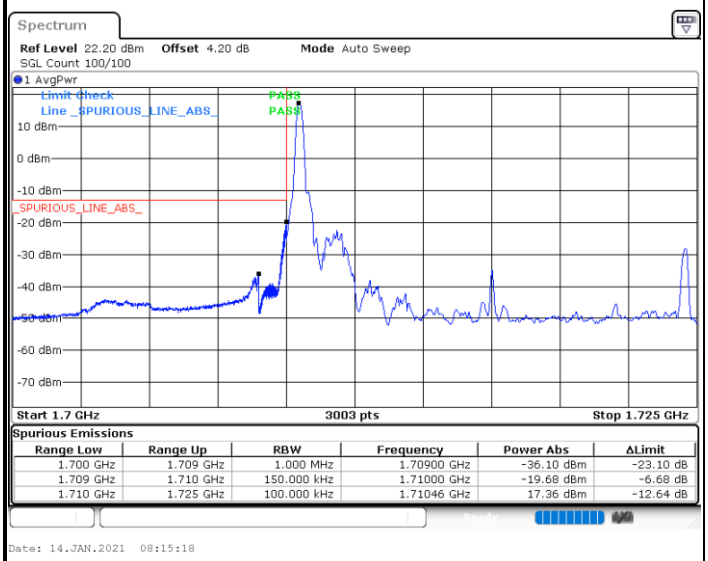
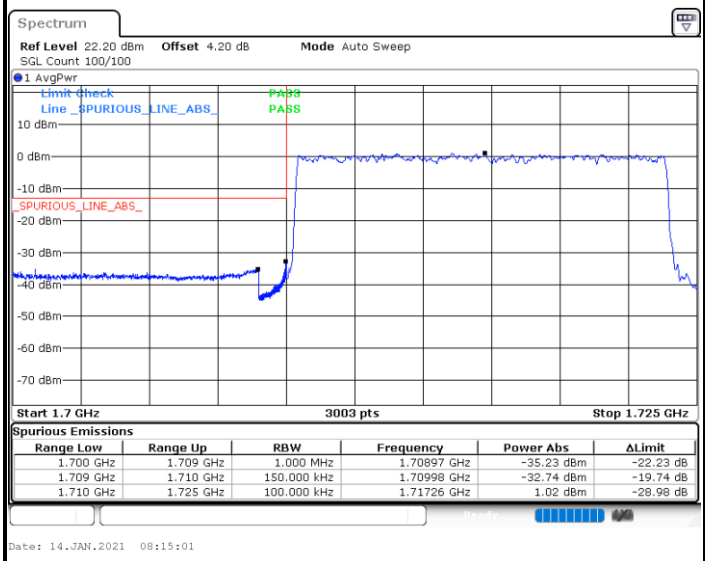
Conducted Band Edge

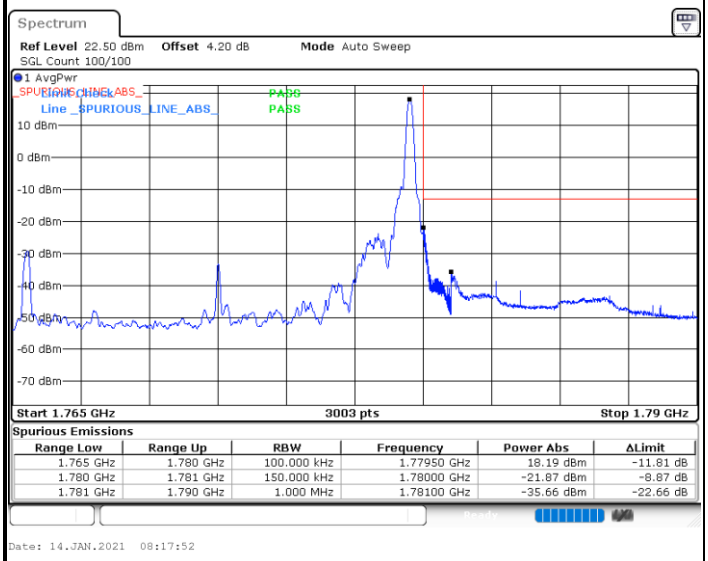
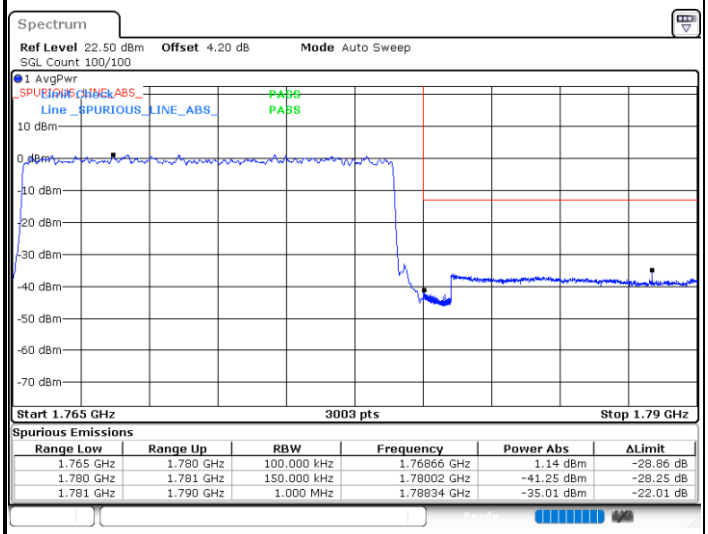
FR1 n66+48A / 5MHz / DFT-S OFDM BPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

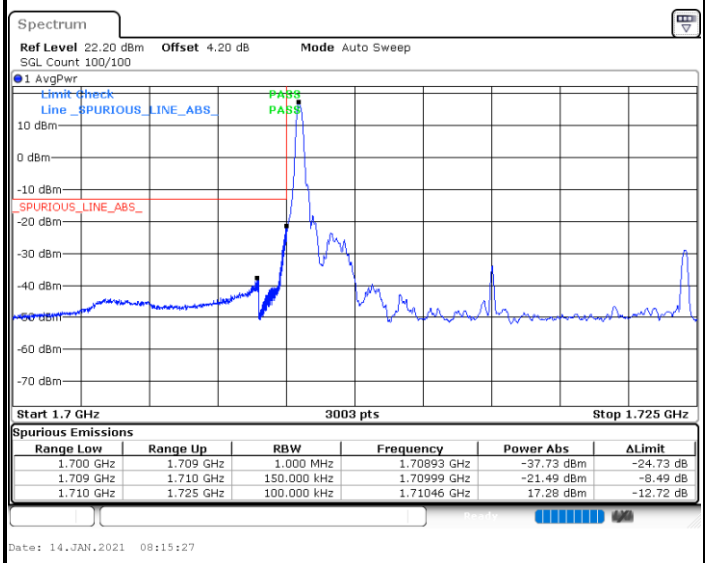
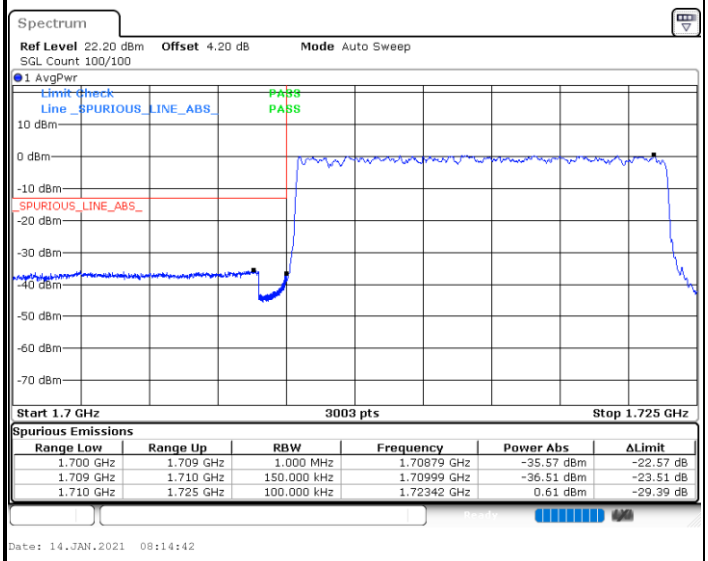
FR1 n66+48A / 5MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.775 GHz / 1.780 GHz / 100.000 kHz / 1.77963 GHz / 17.84 dBm / -12.16 dB 1.780 GHz / 1.781 GHz / 50.000 kHz / 1.78000 GHz / -23.81 dBm / -10.81 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78100 GHz / -38.04 dBm / -25.04 dB Date: 14.JAN.2021 08:38:33	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.775 GHz / 1.780 GHz / 100.000 kHz / 1.77756 GHz / 5.42 dBm / -24.58 dB 1.780 GHz / 1.781 GHz / 50.000 kHz / 1.78000 GHz / -33.21 dBm / -20.21 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78101 GHz / -32.06 dBm / -19.06 dB Date: 14.JAN.2021 08:37:04	/

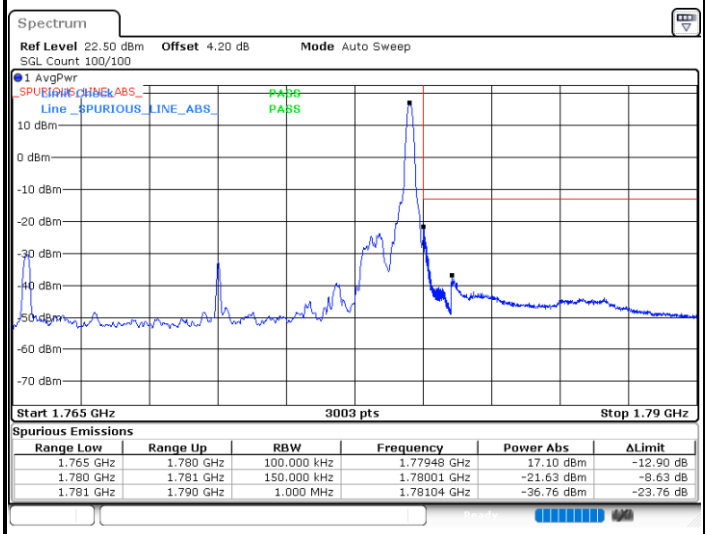
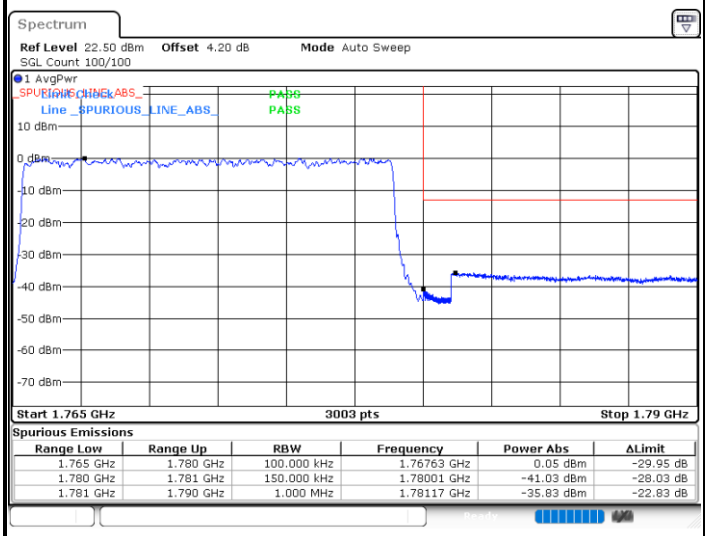
FR1 n66+48A / 5MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n66+48A / 5MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.775 GHz / 1.780 GHz / 100.000 kHz / 1.77961 GHz / 16.94 dBm / -13.06 dB 1.780 GHz / 1.781 GHz / 50.000 kHz / 1.78000 GHz / -22.93 dBm / -9.93 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78105 GHz / -37.57 dBm / -24.57 dB Date: 14.JAN.2021 08:38:10	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.775 GHz / 1.780 GHz / 100.000 kHz / 1.77635 GHz / 5.16 dBm / -24.84 dB 1.780 GHz / 1.781 GHz / 50.000 kHz / 1.78001 GHz / -34.38 dBm / -21.38 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78102 GHz / -31.15 dBm / -18.15 dB Date: 14.JAN.2021 08:37:49	/

FR1 n66+48A / 15MHz / DFT-S OFDM BPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

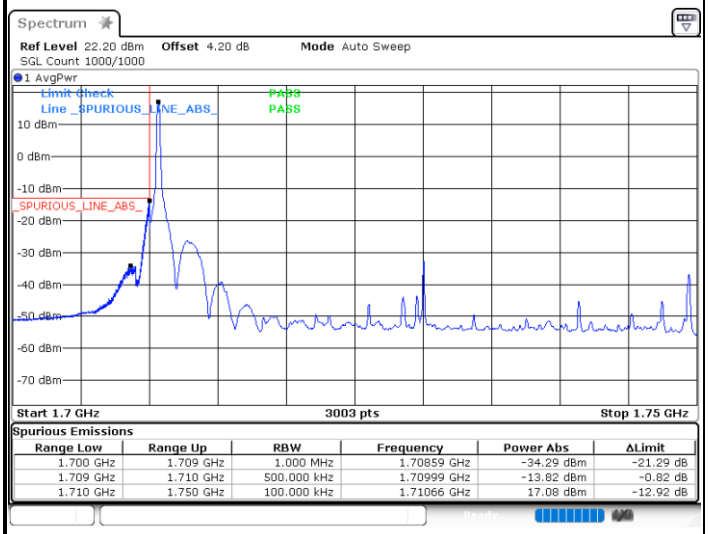
FR1 n66+48A / 15MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.765 GHz / 1.780 GHz / 100.000 kHz / 1.77950 GHz / 18.19 dBm / -11.81 dB 1.780 GHz / 1.781 GHz / 150.000 kHz / 1.78000 GHz / -21.87 dBm / -8.87 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78100 GHz / -35.66 dBm / -22.66 dB Date: 14.JAN.2021 08:17:52	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.765 GHz / 1.780 GHz / 100.000 kHz / 1.76866 GHz / 1.14 dBm / -28.86 dB 1.780 GHz / 1.781 GHz / 150.000 kHz / 1.78002 GHz / -41.25 dBm / -28.25 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78834 GHz / -35.01 dBm / -22.01 dB Date: 14.JAN.2021 08:17:07	/

FR1 n66+48A / 15MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n66+48A / 15MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n66+48A / 40MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

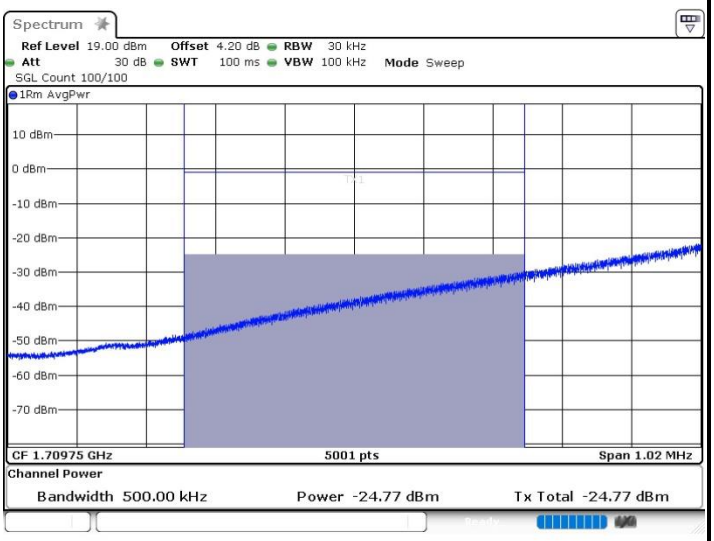


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70859 GHz	-34.29 dBm	-21.29 dB
1.709 GHz	1.710 GHz	500.000 kHz	1.70999 GHz	-13.82 dBm	-0.82 dB
1.710 GHz	1.750 GHz	100.000 kHz	1.71066 GHz	17.08 dBm	-12.92 dB

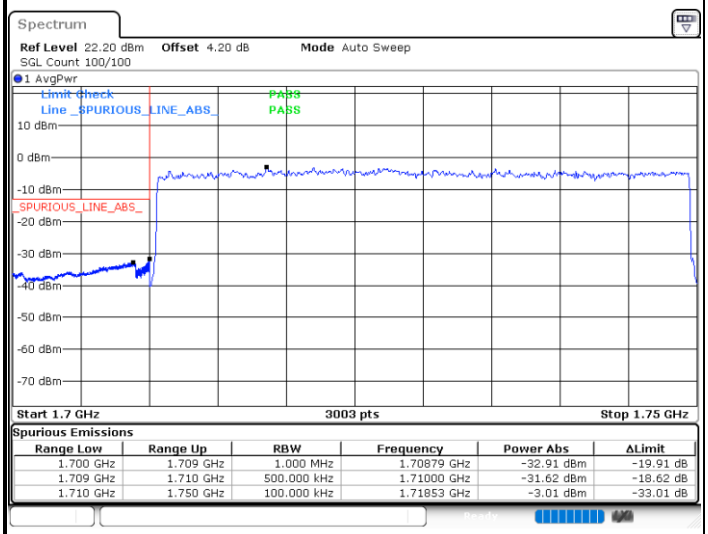
Date: 14.JAN.2021 07:44:53

Channel Power < -13dBm Pass



Date: 14.JAN.2021 07:47:20

Lowest Band Edge / Full RB



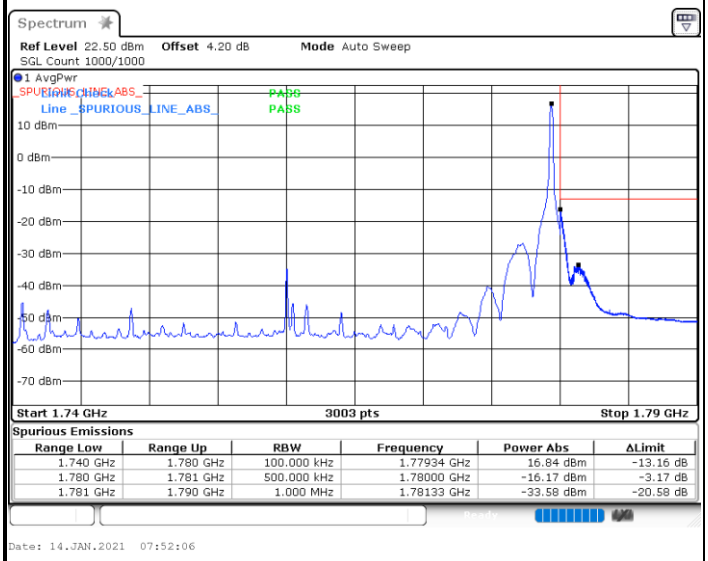
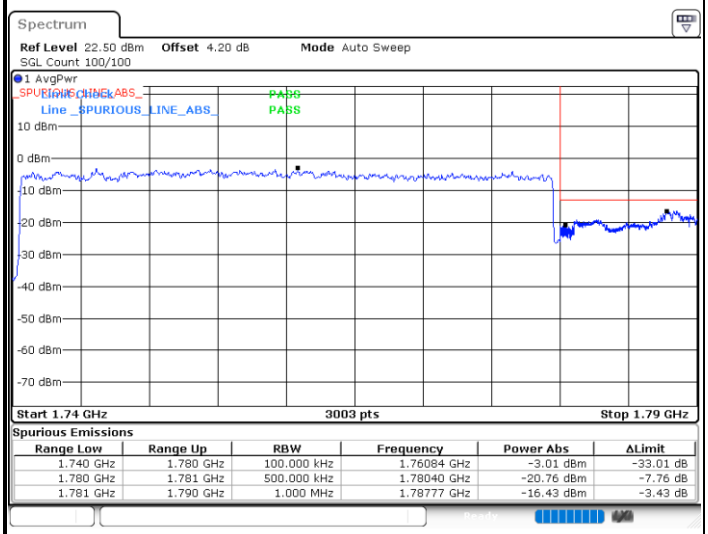
Spurious Emissions

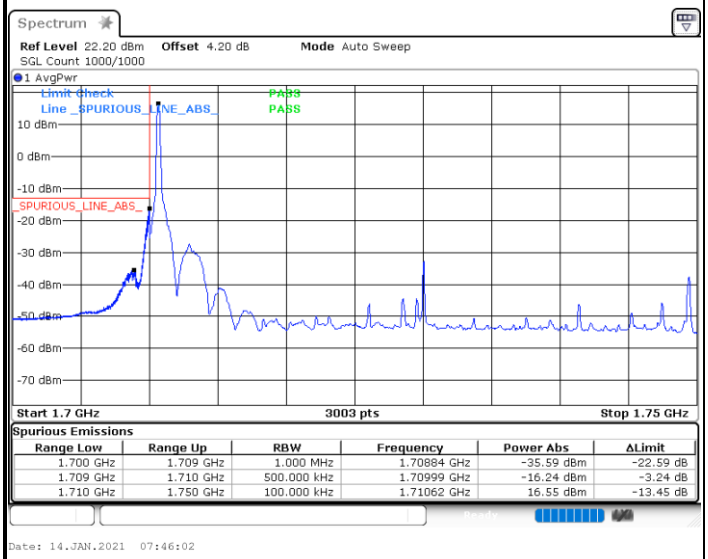
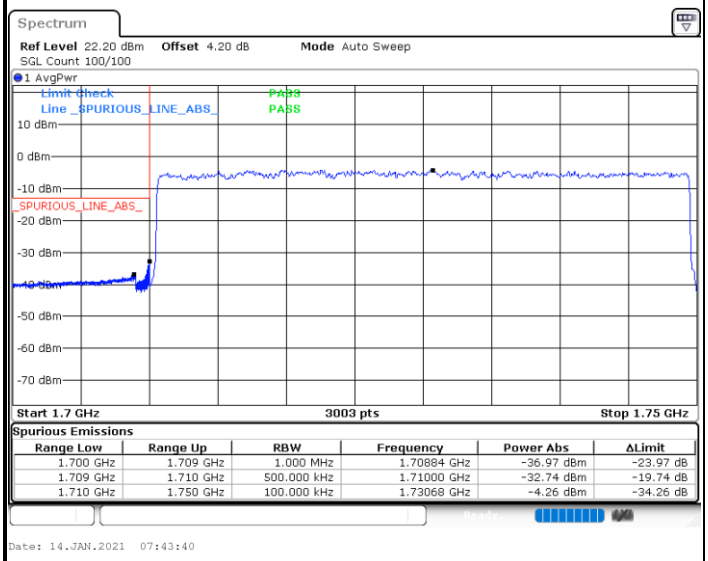
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70879 GHz	-32.91 dBm	-19.91 dB
1.709 GHz	1.710 GHz	500.000 kHz	1.71000 GHz	-31.62 dBm	-18.62 dB
1.710 GHz	1.750 GHz	100.000 kHz	1.71853 GHz	-3.01 dBm	-33.01 dB

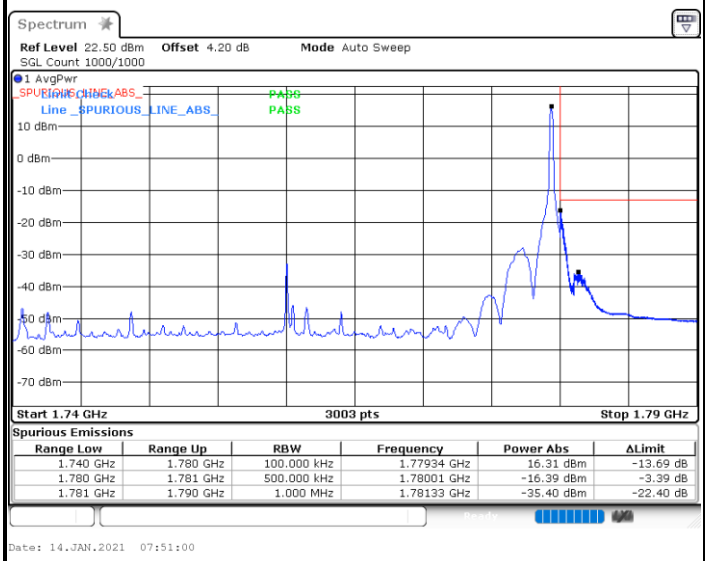
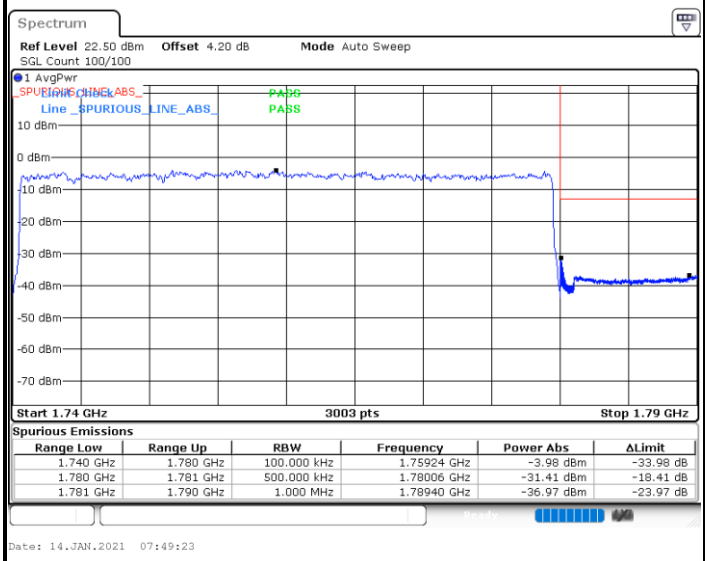
Date: 14.JAN.2021 07:44:03

Channel Power < -13dBm Pass

/

FR1 n66+48A / 40MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.740 GHz / 1.780 GHz / 100.000 kHz / 1.77934 GHz / 16.84 dBm / -13.16 dB 1.780 GHz / 1.781 GHz / 500.000 kHz / 1.78000 GHz / -16.17 dBm / -3.17 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78133 GHz / -33.58 dBm / -20.58 dB Date: 14.JAN.2021 07:52:06	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.740 GHz / 1.780 GHz / 100.000 kHz / 1.76084 GHz / -3.01 dBm / -33.01 dB 1.780 GHz / 1.781 GHz / 500.000 kHz / 1.78040 GHz / -20.76 dBm / -7.76 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78777 GHz / -16.43 dBm / -3.43 dB Date: 14.JAN.2021 07:49:02	/

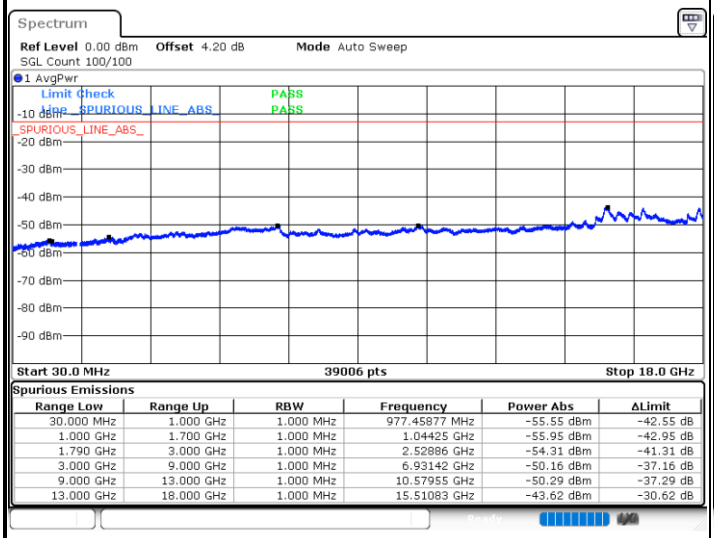
FR1 n66+48A / 40MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n66+48A / 40MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.740 GHz / 1.780 GHz / 100.000 kHz / 1.77934 GHz / 16.31 dBm / -13.69 dB 1.780 GHz / 1.781 GHz / 500.000 kHz / 1.78001 GHz / -16.39 dBm / -3.39 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78133 GHz / -35.40 dBm / -22.40 dB Date: 14.JAN.2021 07:51:00	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 1.740 GHz / 1.780 GHz / 100.000 kHz / 1.75924 GHz / -3.98 dBm / -33.98 dB 1.780 GHz / 1.781 GHz / 500.000 kHz / 1.78006 GHz / -31.41 dBm / -18.41 dB 1.781 GHz / 1.790 GHz / 1.000 MHz / 1.78940 GHz / -36.97 dBm / -23.97 dB Date: 14.JAN.2021 07:49:23	/

Conducted Spurious Emission

FR1 n66+48A / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

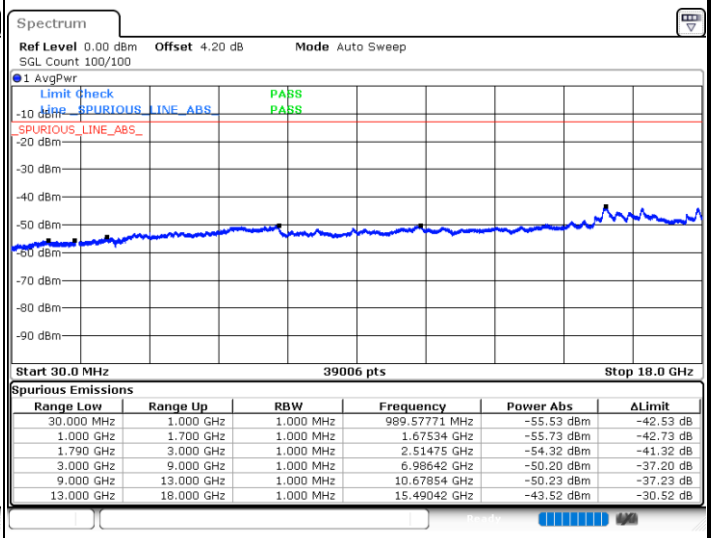


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.45877 MHz	-55.55 dBm	-42.55 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.04425 GHz	-55.95 dBm	-42.95 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.52886 GHz	-54.31 dBm	-41.31 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93142 GHz	-50.16 dBm	-37.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57955 GHz	-50.29 dBm	-37.29 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.51083 GHz	-43.62 dBm	-30.62 dB

Date: 14.JAN.2021 08:09:06

Middle Channel / 1RB

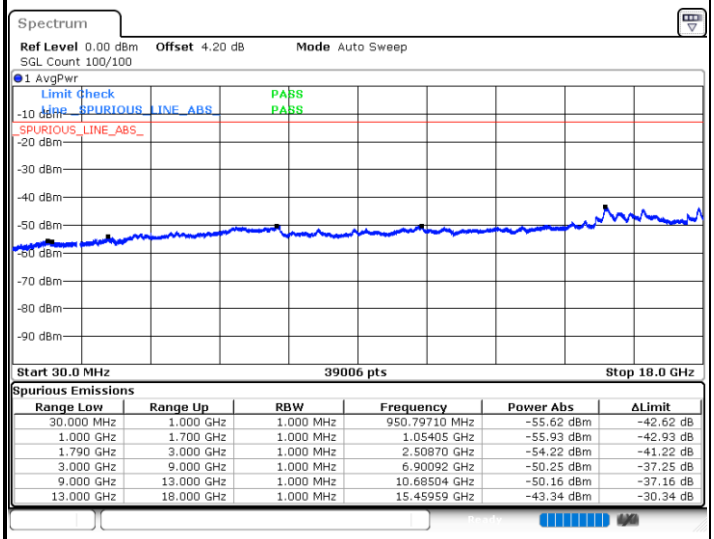


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.57771 MHz	-55.53 dBm	-42.53 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67534 GHz	-55.73 dBm	-42.73 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.51475 GHz	-54.32 dBm	-41.32 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98642 GHz	-50.20 dBm	-37.20 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.67854 GHz	-50.23 dBm	-37.23 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.49042 GHz	-43.52 dBm	-30.52 dB

Date: 14.JAN.2021 08:12:15

Highest Channel / 1RB



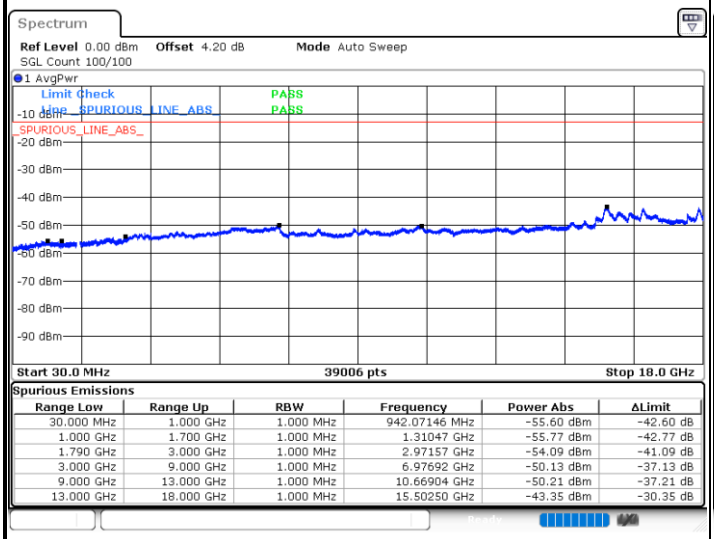
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	950.79710 MHz	-55.62 dBm	-42.62 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.05405 GHz	-55.93 dBm	-42.93 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.50870 GHz	-54.22 dBm	-41.22 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.90092 GHz	-50.25 dBm	-37.25 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.68504 GHz	-50.16 dBm	-37.16 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.45959 GHz	-43.34 dBm	-30.34 dB

Date: 14.JAN.2021 08:13:14

FR1 n66+48A / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

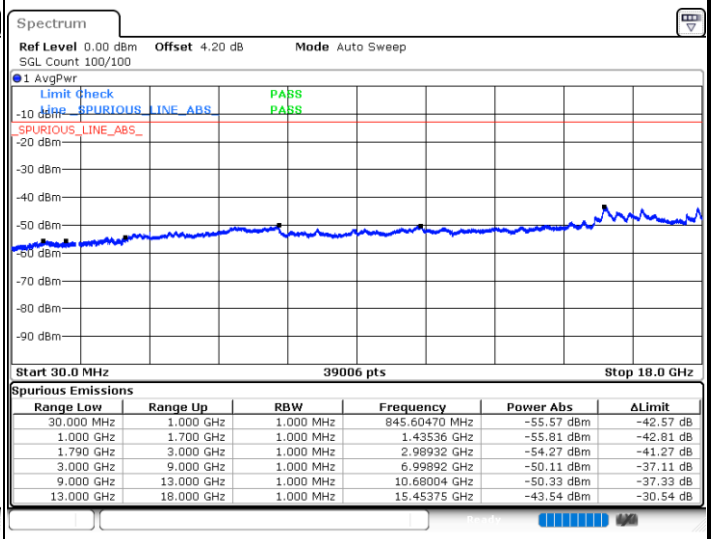


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.07146 MHz	-55.60 dBm	-42.60 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.31047 GHz	-55.77 dBm	-42.77 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.97157 GHz	-54.09 dBm	-41.09 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.97692 GHz	-50.13 dBm	-37.13 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.66904 GHz	-50.21 dBm	-37.21 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50250 GHz	-43.35 dBm	-30.35 dB

Date: 14.JAN.2021 08:10:17

Middle Channel / 1RB

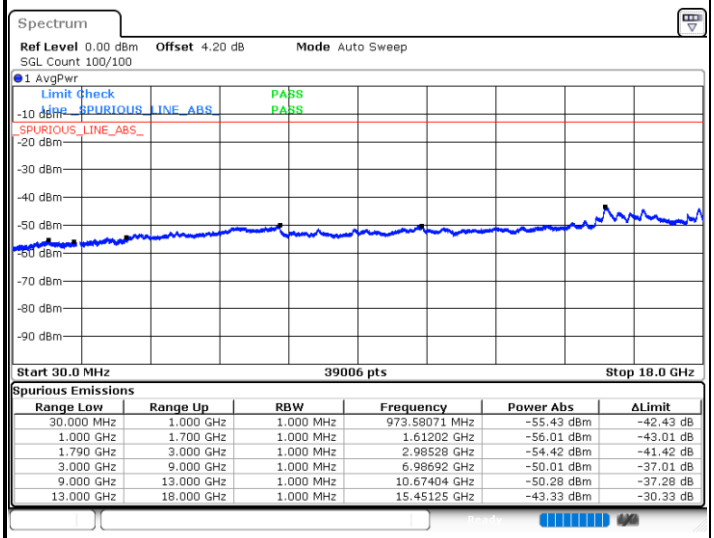


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	845.60470 MHz	-55.57 dBm	-42.57 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.43536 GHz	-55.81 dBm	-42.81 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.98932 GHz	-54.27 dBm	-41.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99892 GHz	-50.11 dBm	-37.11 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.68004 GHz	-50.33 dBm	-37.33 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.45375 GHz	-43.54 dBm	-30.54 dB

Date: 14.JAN.2021 08:11:14

Highest Channel / 1RB



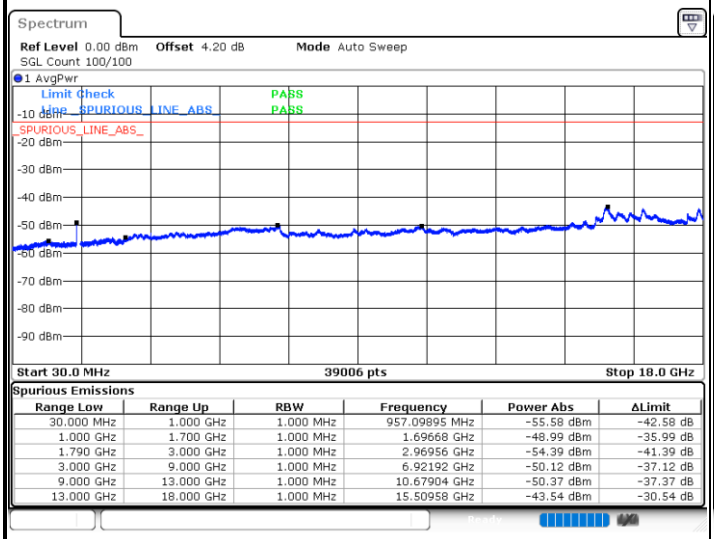
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.58071 MHz	-55.43 dBm	-42.43 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.61202 GHz	-56.01 dBm	-43.01 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.98528 GHz	-54.42 dBm	-41.42 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98692 GHz	-50.01 dBm	-37.01 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.67404 GHz	-50.28 dBm	-37.28 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.45125 GHz	-43.33 dBm	-30.33 dB

Date: 14.JAN.2021 08:14:15

FR1 n66+48A / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

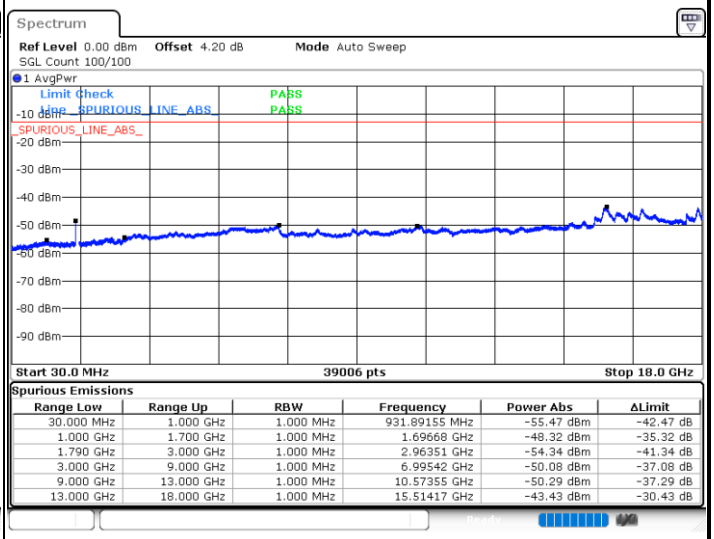


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	957.09895 MHz	-55.58 dBm	-42.58 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-48.99 dBm	-35.99 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.96956 GHz	-54.39 dBm	-41.39 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.92192 GHz	-50.12 dBm	-37.12 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.67904 GHz	-50.37 dBm	-37.37 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50958 GHz	-43.54 dBm	-30.54 dB

Date: 14.JAN.2021 07:55:03

Middle Channel / 1RB

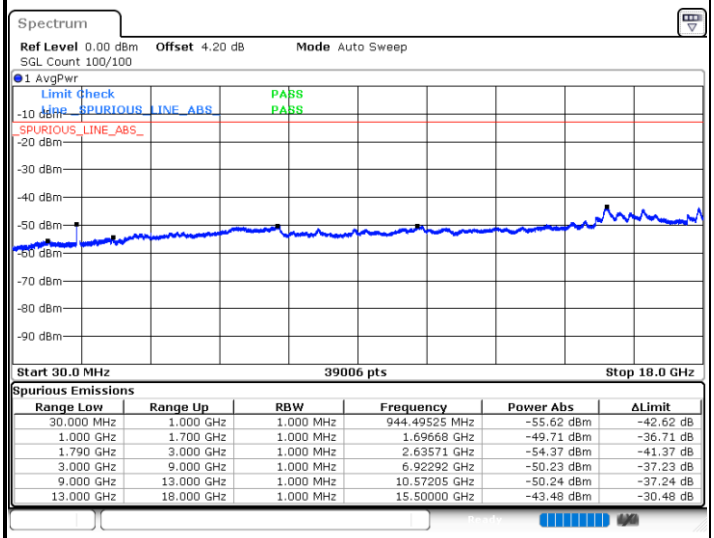


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	931.89155 MHz	-55.47 dBm	-42.47 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-48.32 dBm	-35.32 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.96351 GHz	-54.34 dBm	-41.34 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99542 GHz	-50.08 dBm	-37.08 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57355 GHz	-50.29 dBm	-37.29 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.51417 GHz	-43.43 dBm	-30.43 dB

Date: 14.JAN.2021 07:58:53

Highest Channel / 1RB



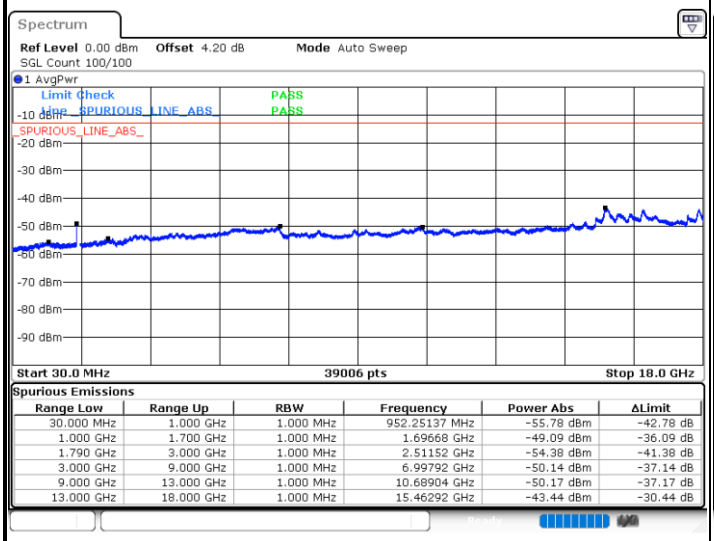
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.49525 MHz	-55.62 dBm	-42.62 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-49.71 dBm	-36.71 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.63571 GHz	-54.37 dBm	-41.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.92292 GHz	-50.23 dBm	-37.23 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57205 GHz	-50.24 dBm	-37.24 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50000 GHz	-43.48 dBm	-30.48 dB

Date: 14.JAN.2021 07:59:52

FR1 n66+48A / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

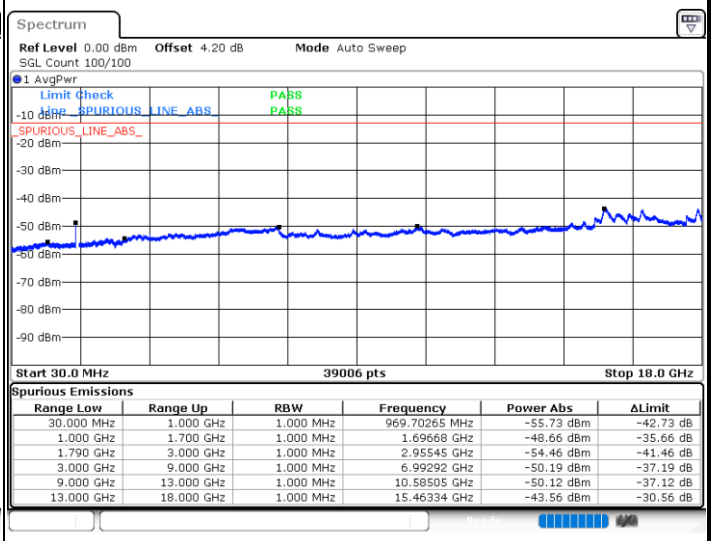


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	952.25137 MHz	-55.78 dBm	-42.78 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-49.09 dBm	-36.09 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.51152 GHz	-54.38 dBm	-41.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99792 GHz	-50.14 dBm	-37.14 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.68904 GHz	-50.17 dBm	-37.17 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46292 GHz	-43.44 dBm	-30.44 dB

Date: 14.JAN.2021 07:56:37

Middle Channel / 1RB

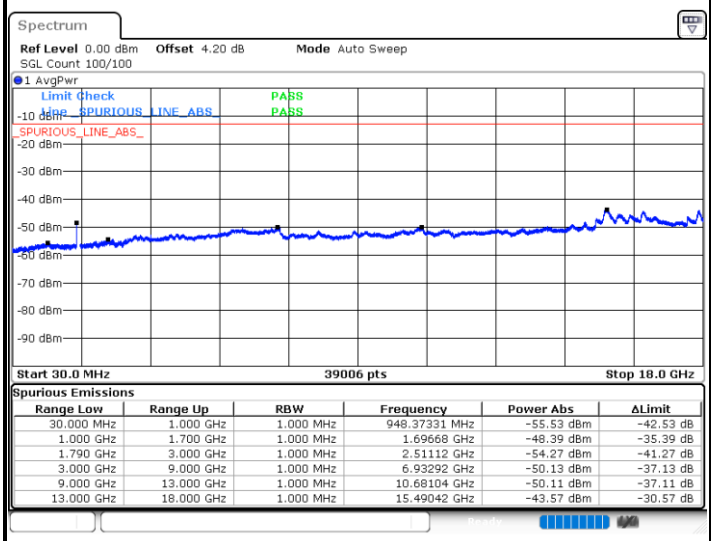


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-55.73 dBm	-42.73 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-48.66 dBm	-35.66 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.95545 GHz	-54.46 dBm	-41.46 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99292 GHz	-50.19 dBm	-37.19 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58505 GHz	-50.12 dBm	-37.12 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46334 GHz	-43.56 dBm	-30.56 dB

Date: 14.JAN.2021 07:57:38

Highest Channel / 1RB



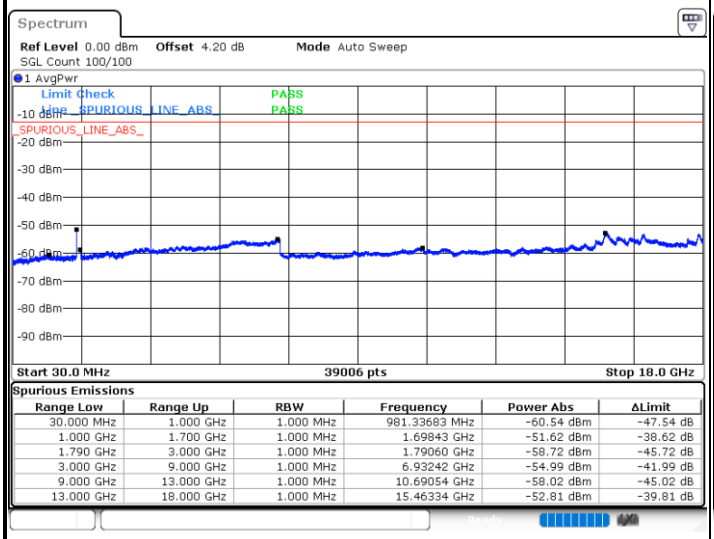
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	948.37331 MHz	-55.53 dBm	-42.53 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-48.39 dBm	-35.39 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.51112 GHz	-54.27 dBm	-41.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93292 GHz	-50.13 dBm	-37.13 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.68104 GHz	-50.11 dBm	-37.11 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.49042 GHz	-43.57 dBm	-30.57 dB

Date: 14.JAN.2021 08:01:02

FR1 n66+48A / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

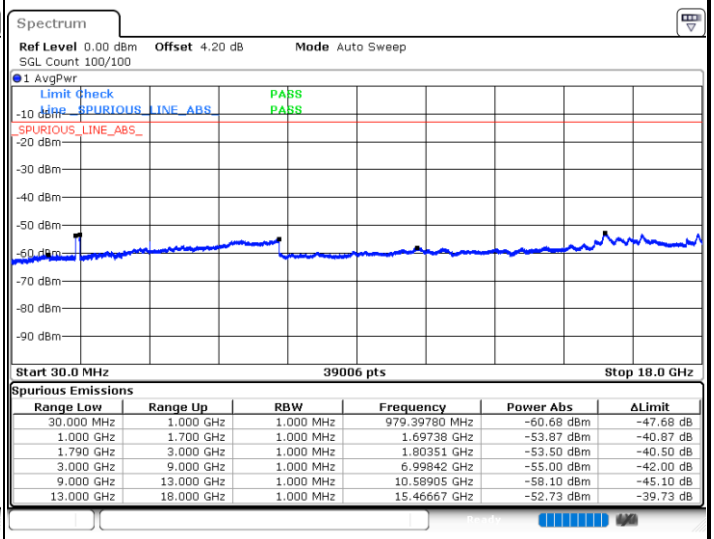


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-60.54 dBm	-47.54 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69843 GHz	-51.62 dBm	-38.62 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79060 GHz	-58.72 dBm	-45.72 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93242 GHz	-54.99 dBm	-41.99 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.69054 GHz	-58.02 dBm	-45.02 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46334 GHz	-52.81 dBm	-39.81 dB

Date: 14.JAN.2021 07:22:51

Middle Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-60.68 dBm	-47.68 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69738 GHz	-53.87 dBm	-40.87 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.80351 GHz	-53.50 dBm	-40.50 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99842 GHz	-55.00 dBm	-42.00 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58905 GHz	-58.10 dBm	-45.10 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46667 GHz	-52.73 dBm	-39.73 dB

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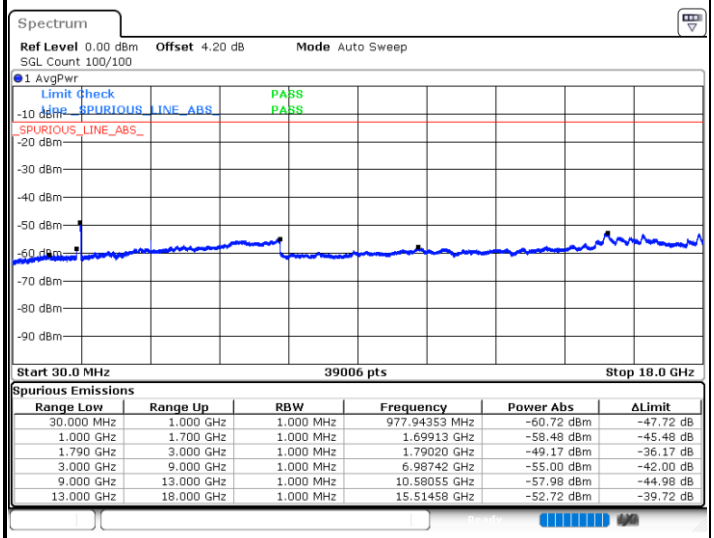
Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.94353 MHz	-60.72 dBm	-47.72 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69913 GHz	-58.48 dBm	-45.48 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-49.17 dBm	-36.17 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98742 GHz	-55.00 dBm	-42.00 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58055 GHz	-57.98 dBm	-44.98 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.51458 GHz	-52.72 dBm	-39.72 dB

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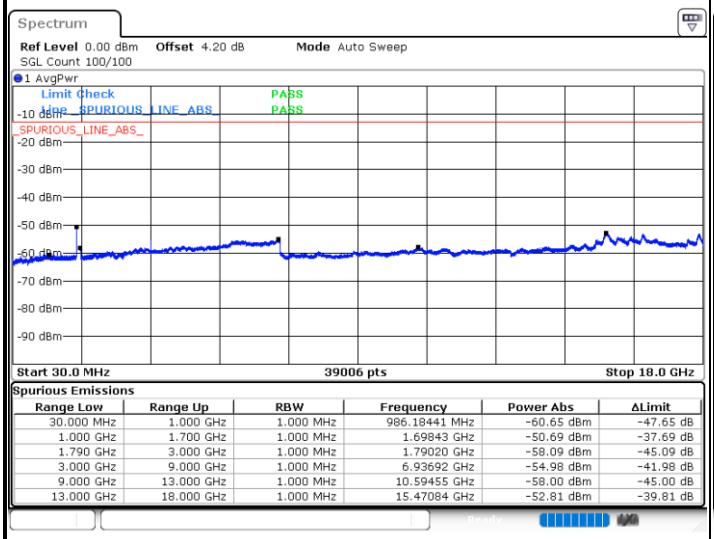
FR1 n66+48A / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.18441 MHz	-60.65 dBm	-47.65 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69843 GHz	-50.69 dBm	-37.69 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-58.09 dBm	-45.09 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93692 GHz	-54.98 dBm	-41.98 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.59455 GHz	-58.00 dBm	-45.00 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.47084 GHz	-52.81 dBm	-39.81 dB

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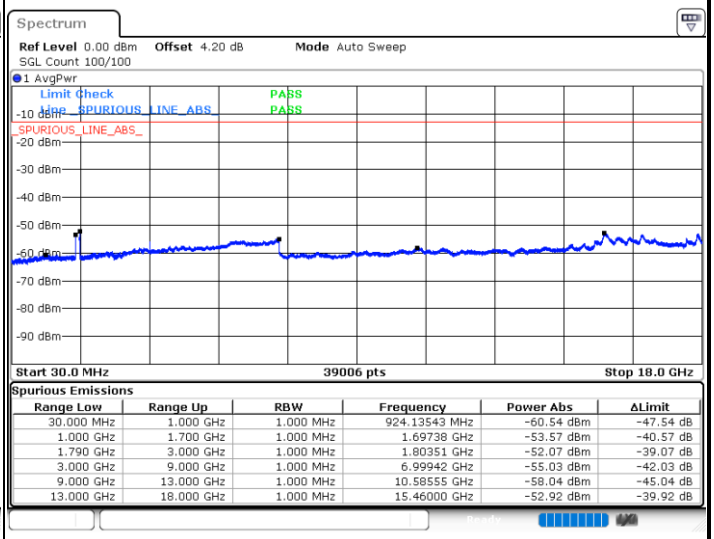
Middle Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	924.13543 MHz	-60.54 dBm	-47.54 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69738 GHz	-53.57 dBm	-40.57 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.80351 GHz	-52.07 dBm	-39.07 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99942 GHz	-55.03 dBm	-42.03 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.58555 GHz	-58.04 dBm	-45.04 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.46000 GHz	-52.92 dBm	-39.92 dB

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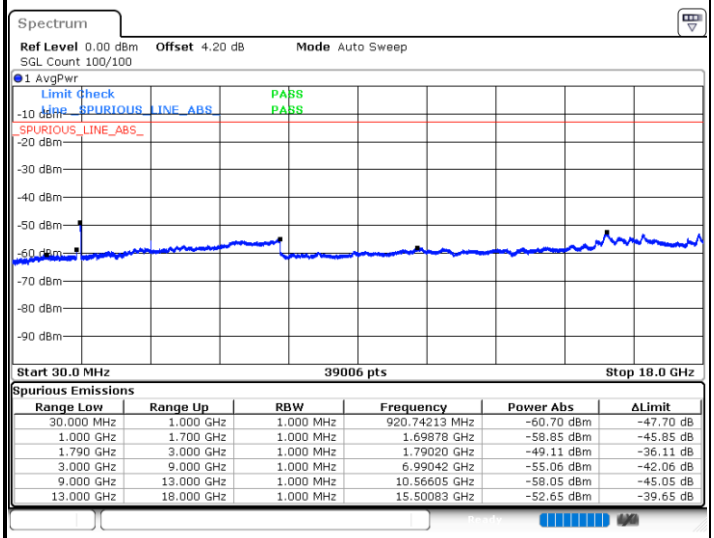
Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	920.74213 MHz	-60.70 dBm	-47.70 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69878 GHz	-58.85 dBm	-45.85 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-49.11 dBm	-36.11 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99042 GHz	-55.06 dBm	-42.06 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.56605 GHz	-58.05 dBm	-45.05 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.50083 GHz	-52.65 dBm	-39.65 dB

Date: 14.JAN.2021 07:26:02

Frequency Stability

Test Conditions		NR n66+48A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission_NSA mode

EN-DC_5A_n2A / LTE 10MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 Lowest	3701.5	-61.92	-13	-48.92	-76.46	-68.68	5.82	12.58	H
	5552.25	-60.91	-13	-47.91	-78.44	-66.63	7.28	13.00	H
	7403	-55.14	-13	-42.14	-77.85	-58.30	8.32	11.48	H
	3701.5	-61.69	-13	-48.69	-76.52	-68.45	5.82	12.58	V
	5552.25	-60.89	-13	-47.89	-78.47	-66.61	7.28	13.00	V
	7403	-54.97	-13	-41.97	-77.73	-58.13	8.32	11.48	V
LTE Band5 Lowest	1664.18	-66.33	-13	-53.33	-72.58	-69.58	4.00	9.40	H
	2496.27	-63.67	-13	-50.67	-73.96	-67.24	4.88	10.60	H
	3328.36	-64.25	-13	-51.25	-76.42	-69.18	5.52	12.60	H
	1664.18	-66.64	-13	-53.64	-72.66	-69.89	4.00	9.40	V
	2496.27	-63.63	-13	-50.63	-74.26	-67.20	4.88	10.60	V
	3328.36	-63.85	-13	-50.85	-76.43	-68.78	5.52	12.60	V
NR n2 Middle	3741.5	-61.61	-13	-48.61	-76.24	-68.36	5.85	12.60	H
	5612.25	-60.39	-13	-47.39	-78.11	-66.19	7.30	13.10	H
	7483	-54.83	-13	-41.83	-77.24	-57.98	8.35	11.50	H
	3741.5	-61.43	-13	-48.43	-76.27	-68.18	5.85	12.60	V
	5612.25	-60.17	-13	-47.17	-77.8	-65.97	7.30	13.10	V
	7483	-55.00	-13	-42.00	-77.35	-58.15	8.35	11.50	V
LTE Band5 Middle	1664.18	-65.94	-13	-52.94	-72.19	-69.19	4.00	9.40	H
	2496.27	-64.02	-13	-51.02	-74.31	-67.59	4.88	10.60	H
	3328.36	-64.30	-13	-51.30	-76.47	-69.23	5.52	12.60	H
	1664.18	-66.58	-13	-53.58	-72.60	-69.83	4.00	9.40	V
	2496.27	-63.73	-13	-50.73	-74.36	-67.30	4.88	10.60	V
	3328.36	-63.71	-13	-50.71	-76.29	-68.64	5.52	12.60	V
NR n2 Highest	3781.5	-61.80	-13	-48.80	-76.50	-68.54	5.88	12.62	H
	5672.25	-60.41	-13	-47.41	-78.27	-66.22	7.32	13.13	H
	7563	-55.53	-13	-42.53	-77.74	-58.69	8.38	11.54	H
	3781.5	-61.58	-13	-48.58	-76.41	-68.32	5.88	12.62	V
	5672.25	-60.76	-13	-47.76	-78.59	-66.57	7.32	13.13	V
	7563	-55.78	-13	-42.78	-77.81	-58.94	8.38	11.54	V
LTE Band5 Highest	1664.18	-66.09	-13	-53.09	-72.34	-69.34	4.00	9.40	H
	2496.27	-63.79	-13	-50.79	-74.08	-67.36	4.88	10.60	H
	3328.36	-64.08	-13	-51.08	-76.25	-69.01	5.52	12.60	H
	1664.18	-66.54	-13	-53.54	-72.56	-69.79	4.00	9.40	V
	2496.27	-63.77	-13	-50.77	-74.40	-67.34	4.88	10.60	V
	3328.36	-63.84	-13	-50.84	-76.42	-68.77	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n5A / LTE 20MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Lowest	1650	-66.85	-13	-53.85	-73.10	-70.08	3.98	9.36	H
	2475	-64.50	-13	-51.50	-74.84	-68.05	4.85	10.55	H
	3300	-63.83	-13	-50.83	-76.23	-68.76	5.50	12.58	H
	1650	-67.04	-13	-54.04	-73.18	-70.27	3.98	9.36	V
	2475	-64.23	-13	-51.23	-74.93	-67.78	4.85	10.55	V
	3300	-63.37	-13	-50.37	-76.22	-68.30	5.50	12.58	V
LTE Band2 Lowest	3742.18	-61.63	-13	-48.63	-76.26	-68.38	5.85	12.60	H
	5613.27	-60.63	-13	-47.63	-78.35	-66.43	7.30	13.10	H
	7484.36	-55.42	-13	-42.42	-77.83	-58.57	8.35	11.50	H
	3742.18	-61.26	-13	-48.26	-76.1	-68.01	5.85	12.60	V
	5613.27	-60.61	-13	-47.61	-78.24	-66.41	7.30	13.10	V
	7484.36	-55.60	-13	-42.60	-77.94	-58.75	8.35	11.50	V
NR n5 Middle	1654.5	-66.90	-13	-53.90	-73.18	-70.15	4.00	9.40	H
	2481.75	-64.50	-13	-51.50	-74.82	-68.07	4.88	10.60	H
	3309	-63.72	-13	-50.72	-76.05	-68.65	5.52	12.60	H
	1654.5	-67.02	-13	-54.02	-73.15	-70.27	4.00	9.40	V
	2481.75	-64.05	-13	-51.05	-74.73	-67.62	4.88	10.60	V
	3309	-63.29	-13	-50.29	-76.06	-68.22	5.52	12.60	V
LTE Band2 Middle	3742.18	-61.25	-13	-48.25	-75.88	-68.00	5.85	12.60	H
	5613.27	-60.29	-13	-47.29	-78.01	-66.09	7.30	13.10	H
	7484.36	-55.13	-13	-42.13	-77.54	-58.28	8.35	11.50	H
	3742.18	-61.14	-13	-48.14	-75.98	-67.89	5.85	12.60	V
	5613.27	-60.31	-13	-47.31	-77.94	-66.11	7.30	13.10	V
	7484.36	-55.23	-13	-42.23	-77.57	-58.38	8.35	11.50	V
NR n5 Highest	1660	-66.52	-13	-53.52	-72.78	-69.69	4.10	9.42	H
	2490	-64.43	-13	-51.43	-74.73	-68.01	4.90	10.63	H
	3320	-64.30	-13	-51.30	-76.54	-69.22	5.55	12.62	H
	1660	-66.89	-13	-53.89	-72.96	-70.06	4.10	9.42	V
	2490	-63.93	-13	-50.93	-74.57	-67.51	4.90	10.63	V
	3320	-63.80	-13	-50.80	-76.46	-68.72	5.55	12.62	V
LTE Band2 Highest	3742.18	-61.61	-13	-48.61	-76.24	-68.36	5.85	12.60	H
	5613.27	-60.50	-13	-47.50	-78.22	-66.30	7.30	13.10	H
	7484.36	-55.57	-13	-42.57	-77.98	-58.72	8.35	11.50	H
	3742.18	-61.48	-13	-48.48	-76.32	-68.23	5.85	12.60	V
	5613.27	-60.74	-13	-47.74	-78.37	-66.54	7.30	13.10	V
	7484.36	-55.49	-13	-42.49	-77.83	-58.64	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_48A_n66A / LTE 20MHz + NR 40MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 Lowest	3422.8	-66.11	-13	-53.11	-54.35	-72.99	5.60	12.48	H
	5134.2	-63.54	-13	-50.54	-56.08	-69.22	7.10	12.78	H
	6845.6	-60.23	-13	-47.23	-55.37	-63.62	8.38	11.77	H
	3422.8	-65.76	-13	-52.76	-54.57	-72.64	5.60	12.48	V
	5134.2	-63.89	-13	-50.89	-56.37	-69.57	7.10	12.78	V
	6845.6	-60.82	-13	-47.82	-55.72	-64.21	8.38	11.77	V
LTE Band48 Lowest	7332.00	-58.03	-40	-18.03	-55.19	-61.33	8.30	11.60	H
	10998.00	-53.34	-40	-13.34	-57.27	-54.86	10.48	12.00	H
	14664.00	-50.21	-40	-10.21	-57.20	-51.91	11.80	13.50	H
	7332.00	-57.76	-40	-17.76	-54.96	-61.06	8.30	11.60	V
	10998.00	-53.48	-40	-13.48	-57.08	-55.00	10.48	12.00	V
	14664.00	-50.02	-40	-10.02	-57.02	-51.72	11.80	13.50	V
NR n66 Middle	3471.5	-65.54	-13	-52.54	-54.35	-72.39	5.65	12.50	H
	5207.25	-63.51	-13	-50.51	-56.00	-69.18	7.13	12.80	H
	6943	-60.13	-13	-47.13	-55.60	-63.53	8.40	11.80	H
	3471.5	-64.92	-13	-51.92	-54.27	-71.77	5.65	12.50	V
	5207.25	-63.49	-13	-50.49	-55.93	-69.16	7.13	12.80	V
	6943	-60.16	-13	-47.16	-55.67	-63.56	8.40	11.80	V
LTE Band48 Middle	7332.00	-57.93	-40	-17.93	-55.09	-61.23	8.30	11.60	H
	10998.00	-53.13	-40	-13.13	-57.06	-54.65	10.48	12.00	H
	14664.00	-50.11	-40	-10.11	-57.10	-51.81	11.80	13.50	H
	7332.00	-57.75	-40	-17.75	-54.95	-61.05	8.30	11.60	V
	10998.00	-53.53	-40	-13.53	-57.13	-55.05	10.48	12.00	V
	14664.00	-49.99	-40	-9.99	-56.99	-51.69	11.80	13.50	V
NR n66 Highest	3482.8	-65.72	-13	-52.72	-54.65	-72.56	5.68	12.52	H
	5224.2	-63.92	-13	-50.92	-56.20	-69.59	7.15	12.82	H
	6965.6	-59.92	-13	-46.92	-55.47	-63.35	8.42	11.85	H
	3482.8	-64.95	-13	-51.95	-54.42	-71.79	5.68	12.52	V
	5224.2	-63.99	-13	-50.99	-56.22	-69.66	7.15	12.82	V
	6965.6	-59.67	-13	-46.67	-55.33	-63.10	8.42	11.85	V
LTE Band48 Highest	7332.00	-57.83	-40	-17.83	-54.99	-61.13	8.30	11.60	H
	10998.00	-53.53	-40	-13.53	-57.46	-55.05	10.48	12.00	H
	14664.00	-49.99	-40	-9.99	-56.98	-51.69	11.80	13.50	H
	7332.00	-57.80	-40	-17.80	-55	-61.10	8.30	11.60	V
	10998.00	-53.59	-40	-13.59	-57.19	-55.11	10.48	12.00	V
	14664.00	-50.07	-40	-10.07	-57.07	-51.77	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Radiated Spurious Emission_SA mode

5G NR n2 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3701.50	-61.85	-13	-48.85	-76.39	-68.61	5.82	12.58	H
	5552.25	-60.61	-13	-47.61	-78.14	-66.33	7.28	13.00	H
	7403.00	-54.75	-13	-41.75	-77.46	-57.91	8.32	11.48	H
	3701.50	-61.05	-13	-48.05	-75.88	-67.81	5.82	12.58	V
	5552.25	-60.53	-13	-47.53	-78.11	-66.25	7.28	13.00	V
	7403.00	-54.89	-13	-41.89	-77.65	-58.05	8.32	11.48	V
Middle	3741.50	-61.26	-13	-48.26	-75.89	-68.01	5.85	12.60	H
	5612.25	-60.14	-13	-47.14	-77.86	-65.94	7.30	13.10	H
	7483.00	-54.59	-13	-41.59	-77.00	-57.74	8.35	11.50	H
	3741.50	-61.25	-13	-48.25	-76.09	-68.00	5.85	12.60	V
	5612.25	-60.24	-13	-47.24	-77.87	-66.04	7.30	13.10	V
	7483.00	-54.88	-13	-41.88	-77.23	-58.03	8.35	11.50	V
Highest	3781.50	-61.56	-13	-48.56	-76.26	-68.30	5.88	12.62	H
	5672.25	-60.24	-13	-47.24	-78.10	-66.05	7.32	13.13	H
	7563.00	-55.25	-13	-42.25	-77.46	-58.41	8.38	11.54	H
	3781.50	-61.39	-13	-48.39	-76.22	-68.13	5.88	12.62	V
	5672.25	-60.24	-13	-47.24	-78.07	-66.05	7.32	13.13	V
	7563.00	-55.61	-13	-42.61	-77.64	-58.77	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n5 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1650	-67.81	-13	-54.81	-74.06	-71.04	3.98	9.36	H
	2475	-65.07	-13	-52.07	-75.41	-68.62	4.85	10.55	H
	3300	-63.76	-13	-50.76	-76.16	-68.69	5.50	12.58	H
	1650	-67.86	-13	-54.86	-74.00	-71.09	3.98	9.36	V
	2475	-64.89	-13	-51.89	-75.59	-68.44	4.85	10.55	V
	3300	-63.36	-13	-50.36	-76.21	-68.29	5.50	12.58	V
Middle	1654.5	-67.87	-13	-54.87	-74.15	-71.12	4.00	9.40	H
	2481.75	-65.23	-13	-52.23	-75.55	-68.80	4.88	10.60	H
	3309	-64.40	-13	-51.40	-76.73	-69.33	5.52	12.60	H
	1654.5	-68.24	-13	-55.24	-74.37	-71.49	4.00	9.40	V
	2481.75	-64.99	-13	-51.99	-75.67	-68.56	4.88	10.60	V
	3309	-63.69	-13	-50.69	-76.46	-68.62	5.52	12.60	V
Highest	1660	-67.56	-13	-54.56	-73.82	-70.73	4.10	9.42	H
	2490	-64.82	-13	-51.82	-75.12	-68.40	4.90	10.63	H
	3320	-64.51	-13	-51.51	-76.75	-69.43	5.55	12.62	H
	1660	-67.84	-13	-54.84	-73.91	-71.01	4.10	9.42	V
	2490	-64.66	-13	-51.66	-75.30	-68.24	4.90	10.63	V
	3320	-64.05	-13	-51.05	-76.71	-68.97	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n25 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3701.50	-61.83	-13	-48.83	-76.37	-68.59	5.82	12.58	H
	5552.25	-60.91	-13	-47.91	-78.44	-66.63	7.28	13.00	H
	7403.00	-55.00	-13	-42.00	-77.71	-58.16	8.32	11.48	H
	3701.50	-61.55	-13	-48.55	-76.38	-68.31	5.82	12.58	V
	5552.25	-60.92	-13	-47.92	-78.5	-66.64	7.28	13.00	V
	7403.00	-54.72	-13	-41.72	-77.48	-57.88	8.32	11.48	V
Middle	3746.5	-61.50	-13	-48.50	-76.13	-68.25	5.85	12.60	H
	5619.75	-60.27	-13	-47.27	-77.99	-66.07	7.30	13.10	H
	7493	-55.29	-13	-42.29	-77.64	-58.44	8.35	11.50	H
	3746.5	-61.43	-13	-48.43	-76.27	-68.18	5.85	12.60	V
	5619.75	-60.67	-13	-47.67	-78.3	-66.47	7.30	13.10	V
	7493	-55.16	-13	-42.16	-77.43	-58.31	8.35	11.50	V
Highest	3791.36	-61.75	-13	-48.75	-76.46	-68.49	5.88	12.62	H
	5687.04	-59.79	-13	-46.79	-77.70	-65.60	7.32	13.13	H
	7582.72	-55.50	-13	-42.50	-77.68	-58.66	8.38	11.54	H
	3791.36	-61.69	-13	-48.69	-76.52	-68.43	5.88	12.62	V
	5687.04	-59.96	-13	-46.96	-77.88	-65.77	7.32	13.13	V
	7582.72	-55.79	-13	-42.79	-77.76	-58.95	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n66 / NR 40MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3421.84	-63.73	-13	-50.73	-75.98	-70.61	5.60	12.48	H
	5132.76	-60.36	-13	-47.36	-77.85	-66.04	7.10	12.78	H
	6843.68	-57.83	-13	-44.83	-78.28	-61.22	8.38	11.77	H
	3421.84	-62.83	-13	-49.83	-75.65	-69.71	5.60	12.48	V
	5132.76	-60.32	-13	-47.32	-77.75	-66.00	7.10	12.78	V
	6843.68	-57.93	-13	-44.93	-78.14	-61.32	8.38	11.77	V
Middle	3541.84	-62.87	-13	-49.87	-76.51	-69.72	5.65	12.50	H
	5177.76	-60.00	-13	-47.00	-77.54	-65.67	7.13	12.80	H
	6903.68	-57.45	-13	-44.45	-78.18	-60.85	8.40	11.80	H
	3541.84	-62.25	-13	-49.25	-76.41	-69.10	5.65	12.50	V
	5177.76	-59.81	-13	-46.81	-77.29	-65.48	7.13	12.80	V
	6903.68	-57.26	-13	-44.26	-77.92	-60.66	8.40	11.80	V
Highest	3481.84	-63.19	-13	-50.19	-76.12	-70.03	5.68	12.52	H
	5232.76	-60.42	-13	-47.42	-77.58	-66.09	7.15	12.82	H
	6972	-56.63	-13	-43.63	-77.67	-60.06	8.42	11.85	H
	3481.84	-62.71	-13	-49.71	-76.18	-69.55	5.68	12.52	V
	5232.76	-60.60	-13	-47.60	-77.71	-66.27	7.15	12.82	V
	6963.68	-56.55	-13	-43.55	-77.66	-59.98	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.