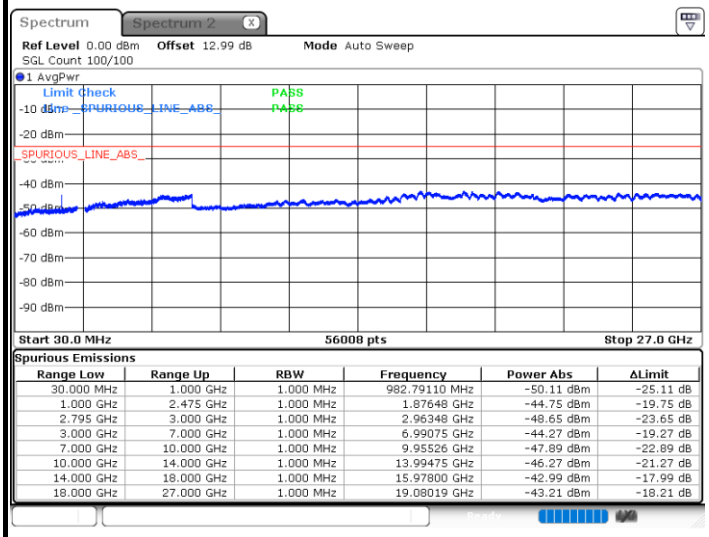
FR1 n41 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

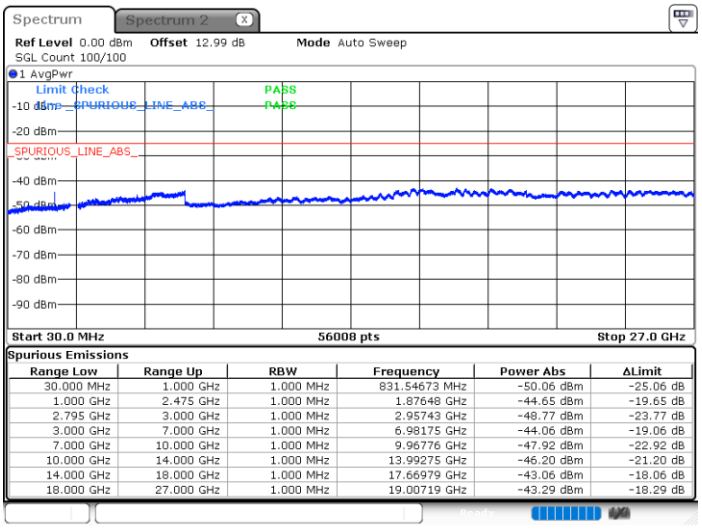


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.79110 MHz	-50.11 dBm	-25.11 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87648 GHz	-44.75 dBm	-19.75 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96348 GHz	-48.65 dBm	-23.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99075 GHz	-44.27 dBm	-19.27 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95526 GHz	-47.89 dBm	-22.89 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99475 GHz	-46.27 dBm	-21.27 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.97800 GHz	-42.99 dBm	-17.99 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.08019 GHz	-43.21 dBm	-18.21 dB

Date: 23.DEC.2022 04:53:25

Middle Channel / 1RB1

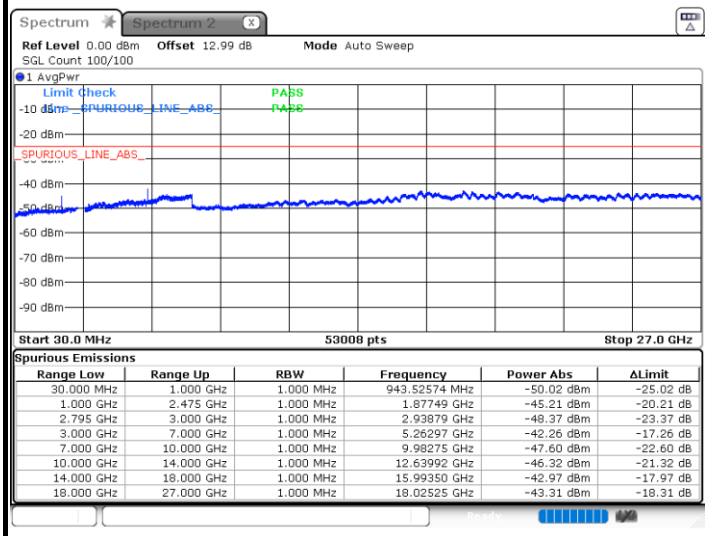


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	831.54673 MHz	-50.06 dBm	-25.06 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87648 GHz	-44.65 dBm	-19.65 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95743 GHz	-48.77 dBm	-23.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98175 GHz	-44.06 dBm	-19.06 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96776 GHz	-47.92 dBm	-22.92 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99275 GHz	-46.20 dBm	-21.20 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.66979 GHz	-43.06 dBm	-18.06 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.00719 GHz	-43.29 dBm	-18.29 dB

Date: 23.DEC.2022 04:52:03

Highest Channel / 1RB1



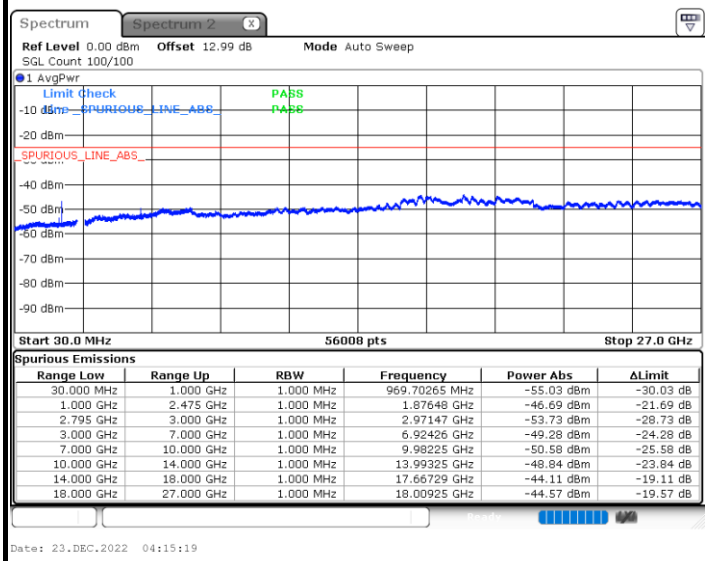
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-50.02 dBm	-25.02 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87749 GHz	-45.21 dBm	-20.21 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.93879 GHz	-48.37 dBm	-23.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.26297 GHz	-42.26 dBm	-17.26 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98275 GHz	-47.60 dBm	-22.60 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.63992 GHz	-46.32 dBm	-21.32 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.99350 GHz	-42.97 dBm	-17.97 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.02525 GHz	-43.31 dBm	-18.31 dB

Date: 23.DEC.2022 05:07:26

FR1 n41 /100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

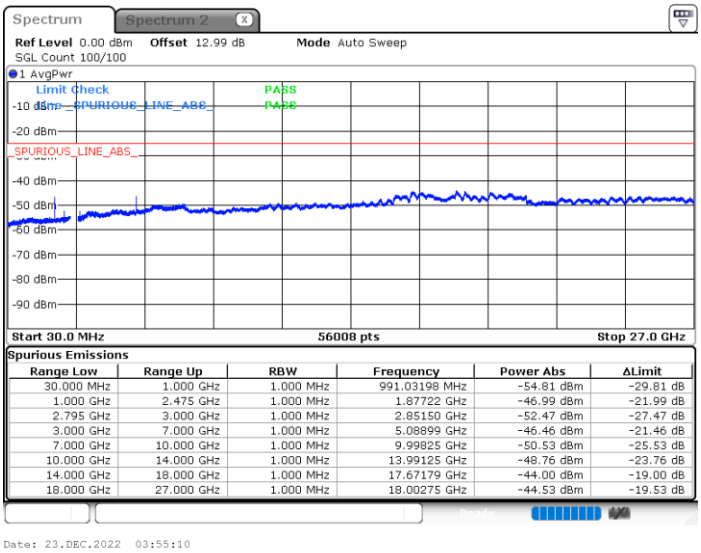


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-55.03 dBm	-30.03 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87648 GHz	-46.69 dBm	-21.69 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97147 GHz	-53.73 dBm	-28.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92426 GHz	-49.28 dBm	-24.28 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98225 GHz	-50.58 dBm	-25.58 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99325 GHz	-48.84 dBm	-23.84 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.66729 GHz	-44.11 dBm	-19.11 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.00925 GHz	-44.57 dBm	-19.57 dB

Date: 23.DEC.2022 04:15:19

Middle Channel / 1RB1

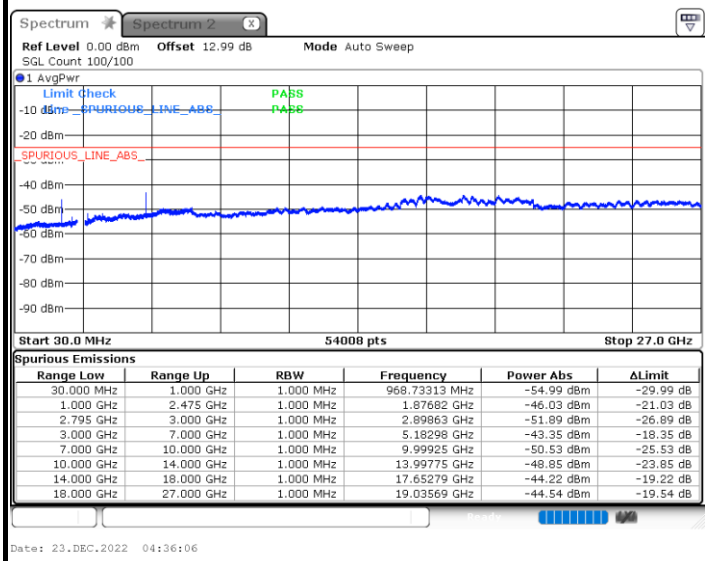


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.03198 MHz	-54.81 dBm	-29.81 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87722 GHz	-46.99 dBm	-21.99 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.85150 GHz	-52.47 dBm	-27.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.08899 GHz	-46.46 dBm	-21.46 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99825 GHz	-50.53 dBm	-25.53 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99125 GHz	-48.76 dBm	-23.76 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.67179 GHz	-44.00 dBm	-19.00 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.00275 GHz	-44.53 dBm	-19.53 dB

Date: 23.DEC.2022 03:55:10

Highest Channel / 1RB1



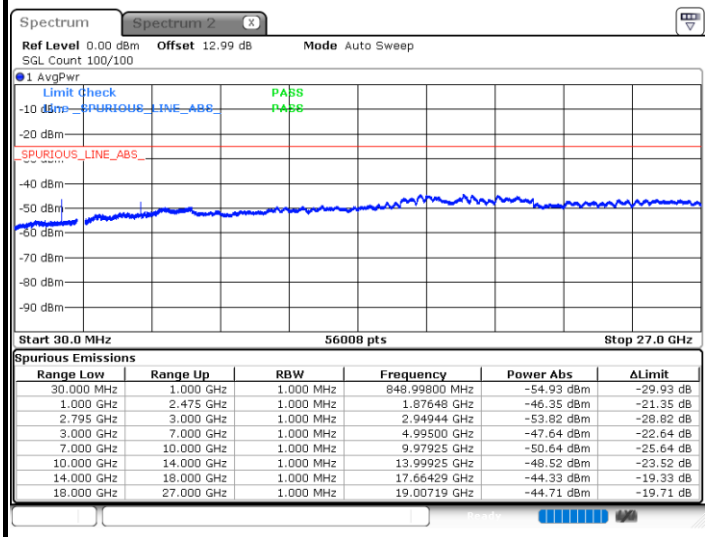
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	968.73313 MHz	-54.99 dBm	-29.99 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87682 GHz	-46.03 dBm	-21.03 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.89863 GHz	-51.89 dBm	-26.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.18298 GHz	-43.35 dBm	-18.35 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99925 GHz	-50.53 dBm	-25.53 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99775 GHz	-48.85 dBm	-23.85 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.65279 GHz	-44.22 dBm	-19.22 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.03569 GHz	-44.54 dBm	-19.54 dB

Date: 23.DEC.2022 04:36:06

FR1 n41 /100MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

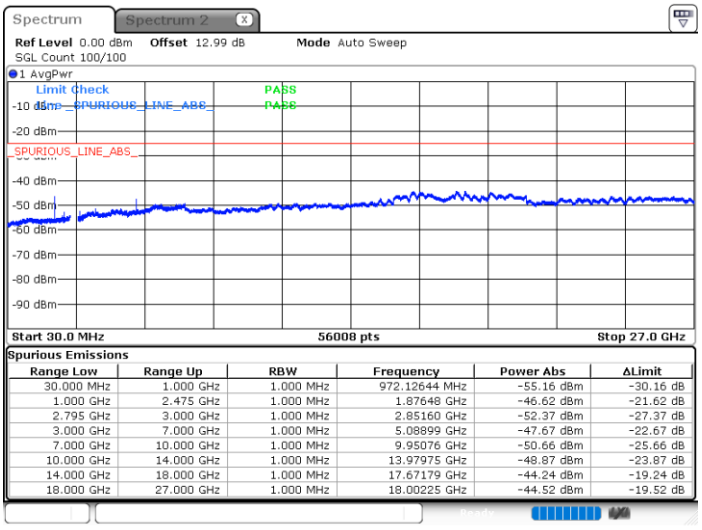


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	848.99800 MHz	-54.93 dBm	-29.93 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87648 GHz	-46.35 dBm	-21.35 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.94944 GHz	-53.82 dBm	-28.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99500 GHz	-47.64 dBm	-22.64 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97925 GHz	-50.64 dBm	-25.64 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99925 GHz	-48.52 dBm	-23.52 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.66429 GHz	-44.33 dBm	-19.33 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.00719 GHz	-44.71 dBm	-19.71 dB

Date: 23.DEC.2022 04:09:27

Middle Channel / 1RB1

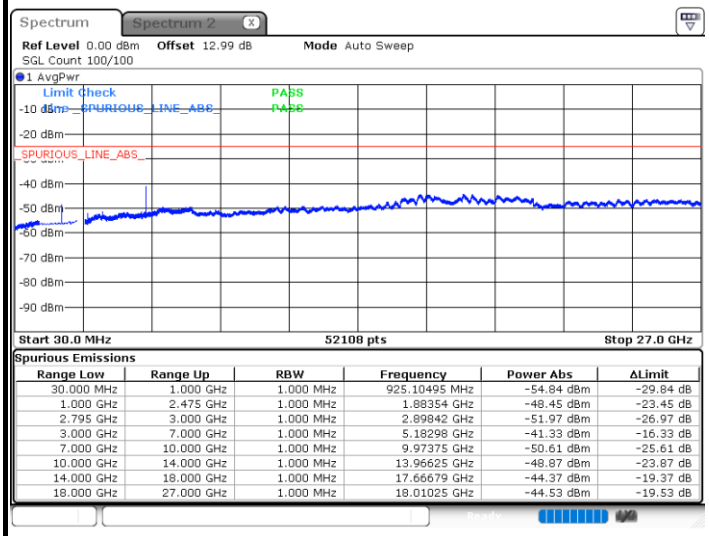


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	972.12644 MHz	-55.16 dBm	-30.16 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.87648 GHz	-46.62 dBm	-21.62 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.85160 GHz	-52.37 dBm	-27.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.08899 GHz	-47.67 dBm	-22.67 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95076 GHz	-50.66 dBm	-25.66 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.97975 GHz	-48.87 dBm	-23.87 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.67179 GHz	-44.24 dBm	-19.24 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.00225 GHz	-44.52 dBm	-19.52 dB

Date: 23.DEC.2022 03:56:45

Highest Channel / 1RB1



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.10495 MHz	-54.84 dBm	-29.84 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.88354 GHz	-48.45 dBm	-23.45 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.89842 GHz	-51.97 dBm	-26.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.18298 GHz	-41.33 dBm	-16.33 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97375 GHz	-50.61 dBm	-25.61 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.96625 GHz	-48.87 dBm	-23.87 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.66679 GHz	-44.37 dBm	-19.37 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.01025 GHz	-44.53 dBm	-19.53 dB

Date: 23.DEC.2022 04:37:45

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.

2. Note: The frequency fundamental emissions stay within the authorized frequency block.

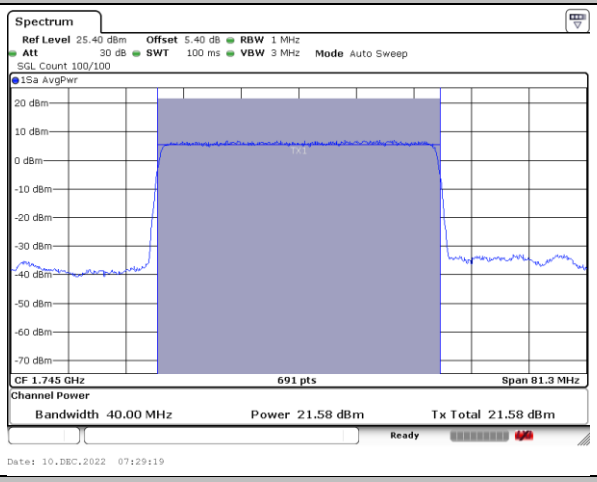
FR1 n66 (other PA)

Peak-to-Average Ratio

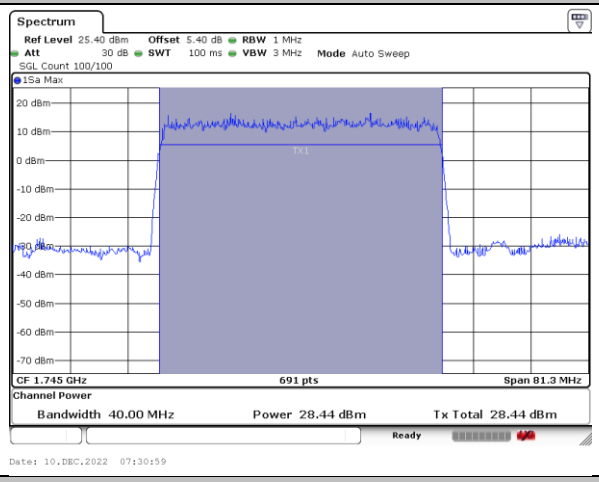
Mode	FR1 n66 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	6.86	6.83	PASS

FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

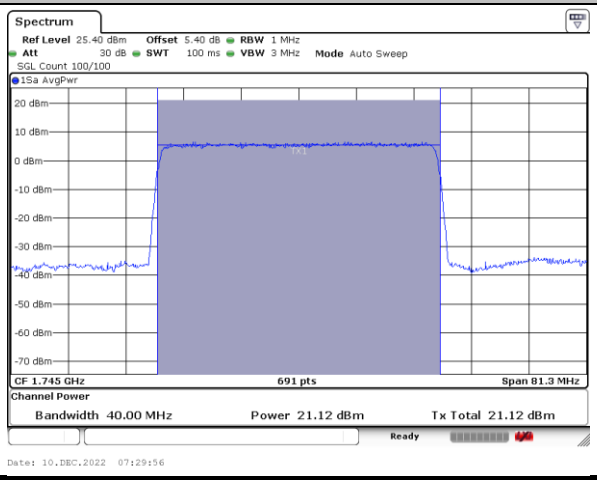
PI/2 BPSK-A



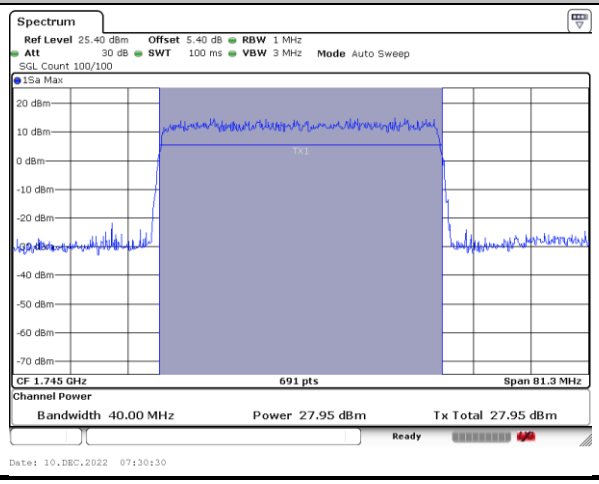
PI/2 BPSK-P



QPSK-A



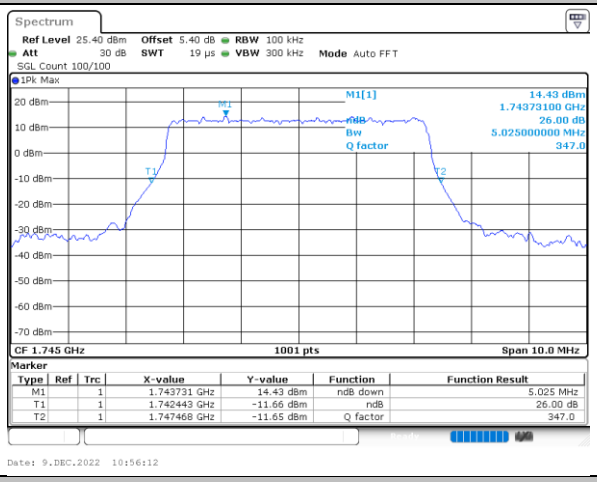
QPSK-P

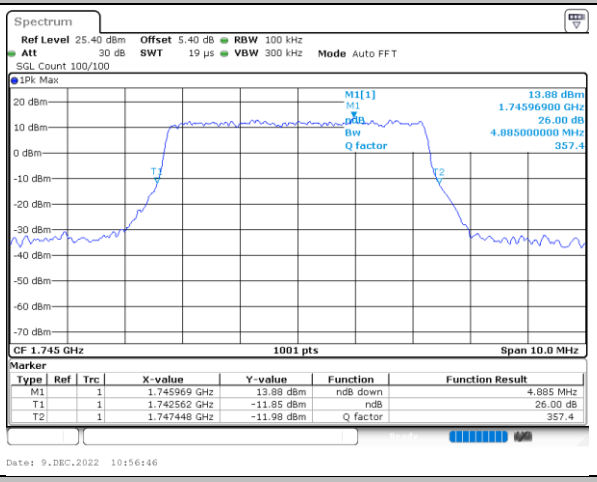


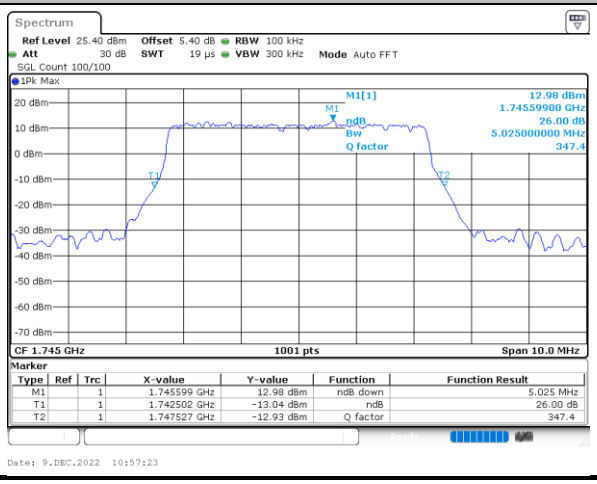
26dB Bandwidth

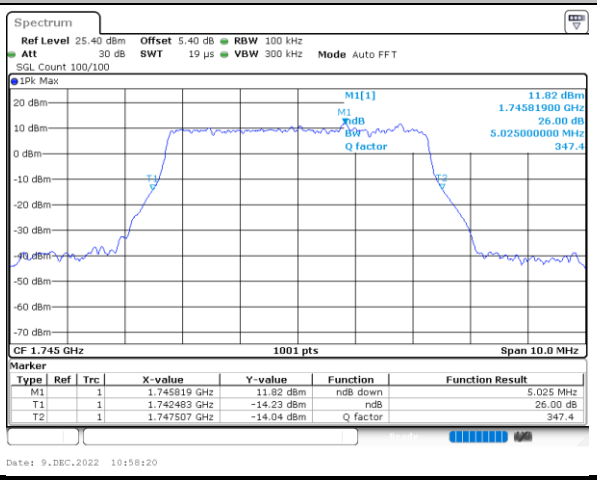
Mode	FR1 n66 : 26dBW (MHz) / CP OFDM			
BW	5M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	5.03	4.89	5.03	5.03
BW	10M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	10.23	10.01	10.21	10.35
BW	15M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	15.23	15.11	14.99	15.14
BW	20M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.98	19.90	20.02	20.10
BW	30M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	29.85	29.73	29.61	29.57
BW	40M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	41.08	41.00	41.00	40.92

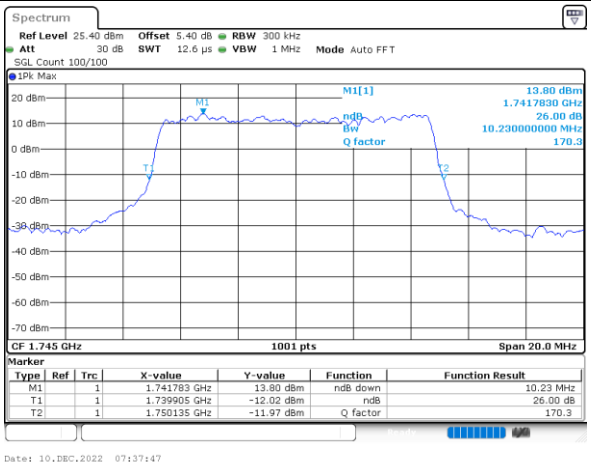
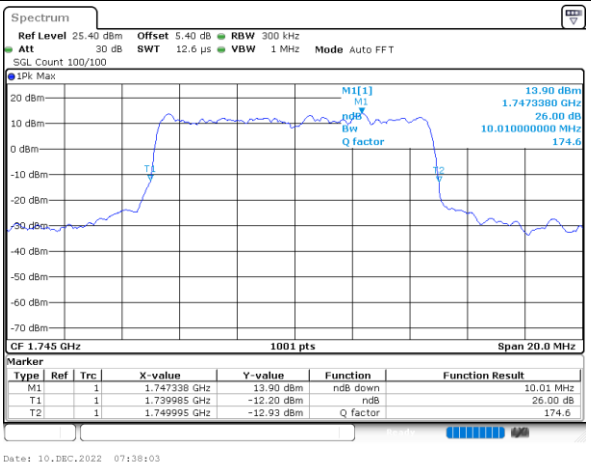
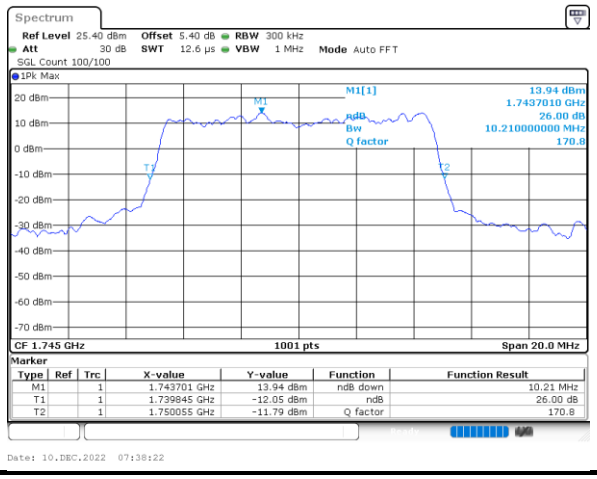
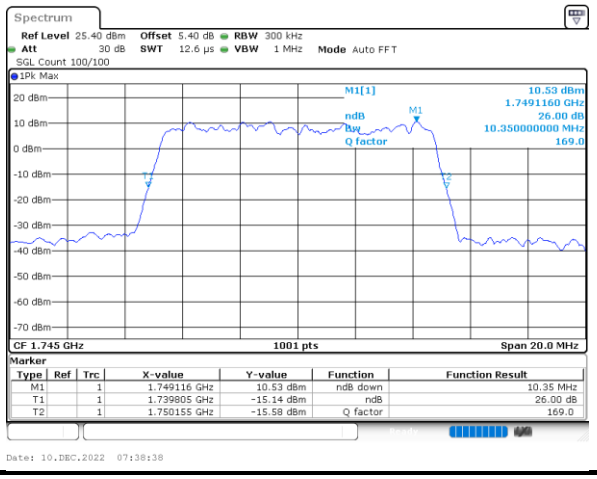
FR1 n66 / 5MHz / CP OFDM	
QPSK	16QAM
64QAM	256QAM

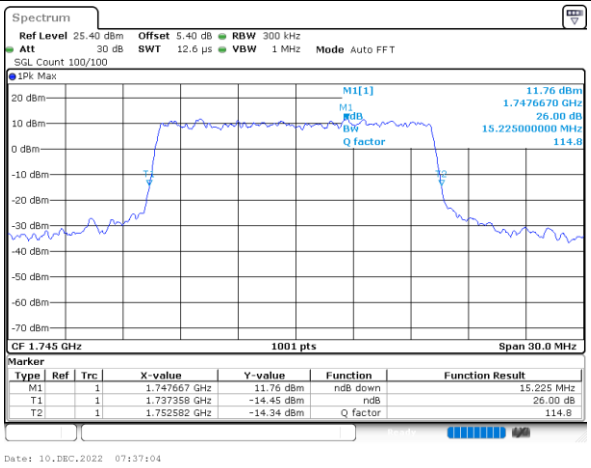
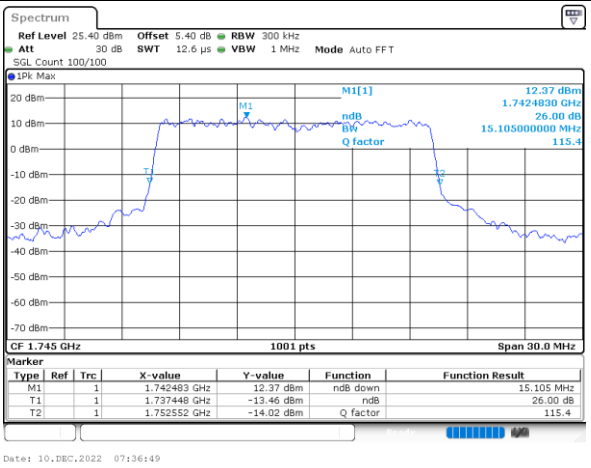
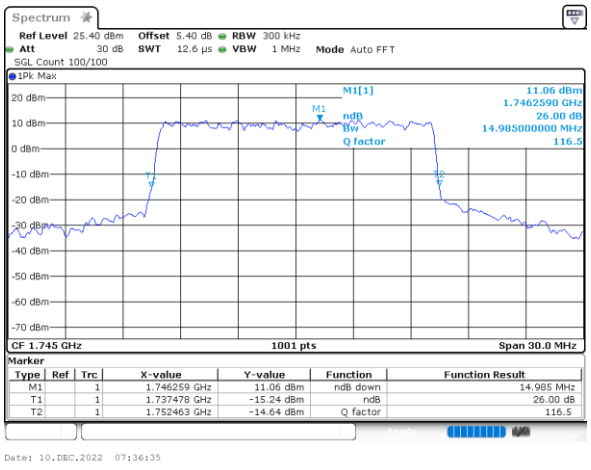
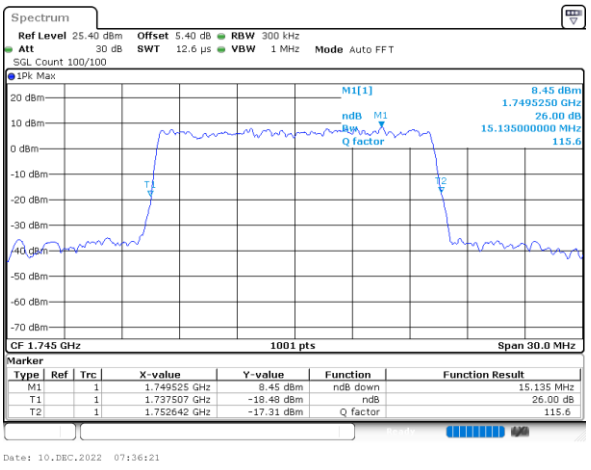






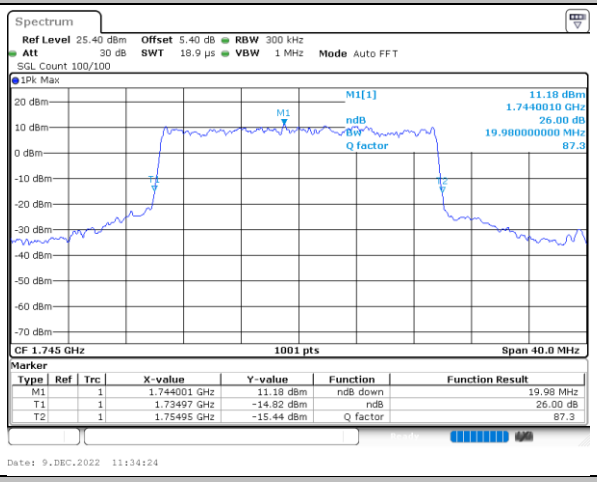


FR1 n66 / 10MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

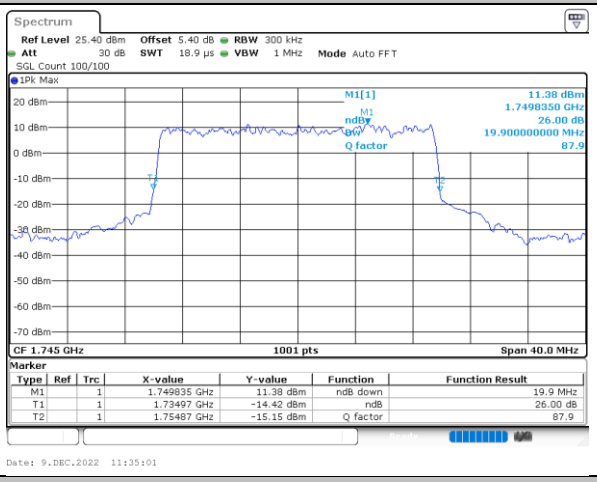
FR1 n66 / 15MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n66 / 20MHz / CP OFDM

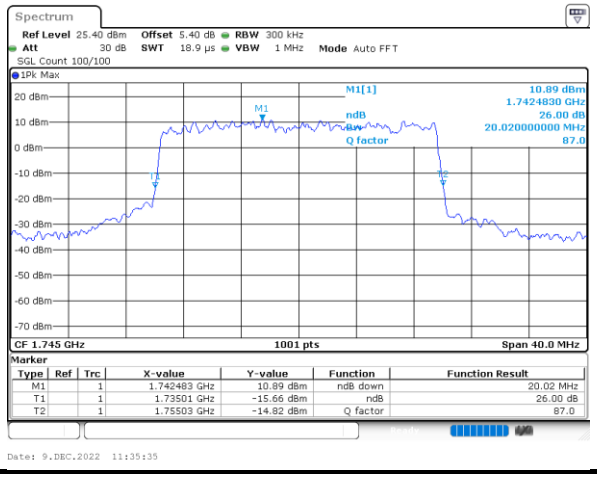
QPSK



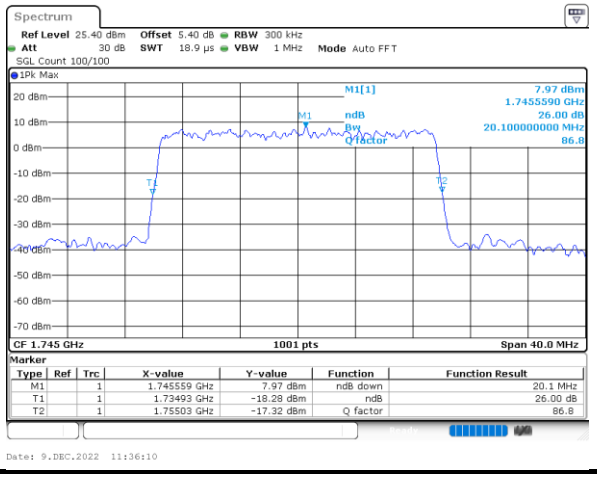
16QAM

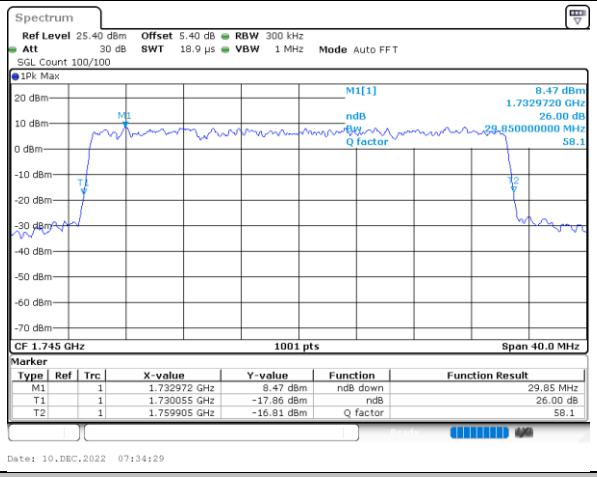
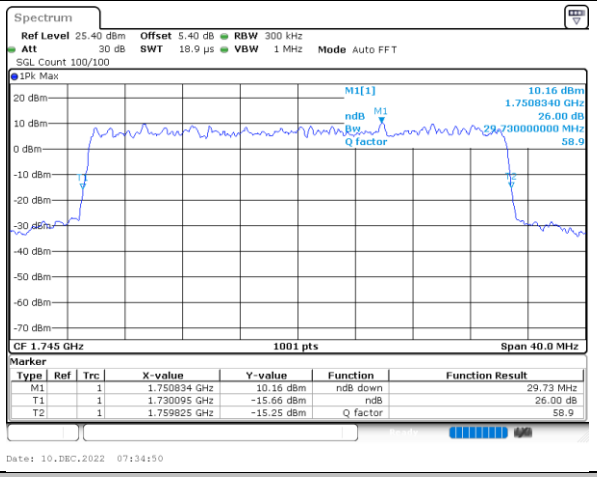
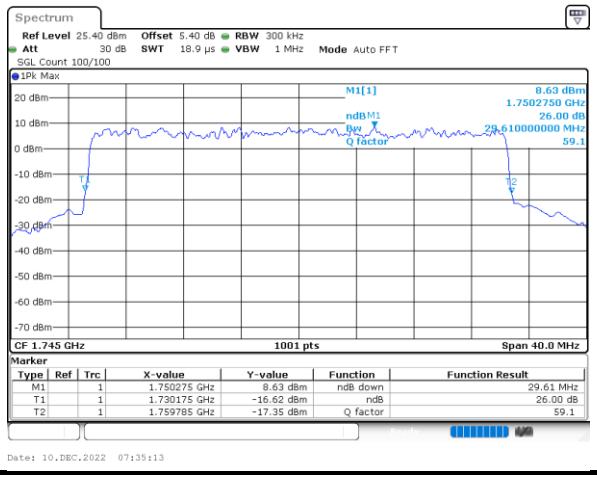
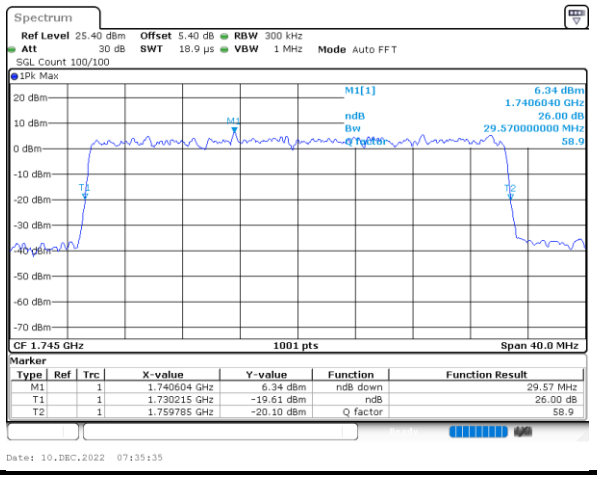


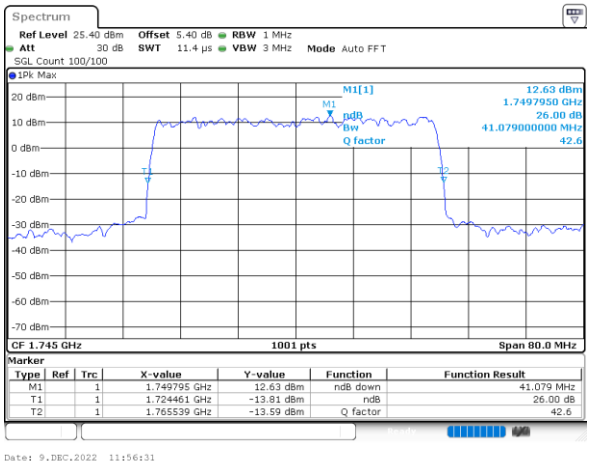
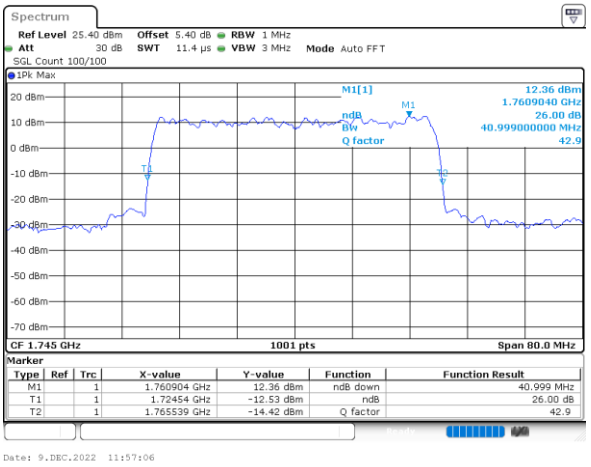
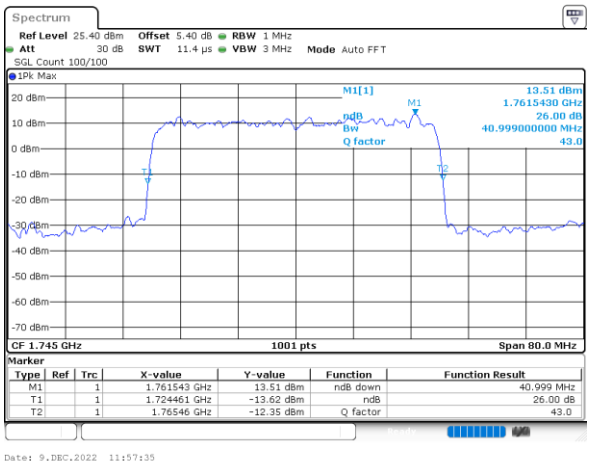
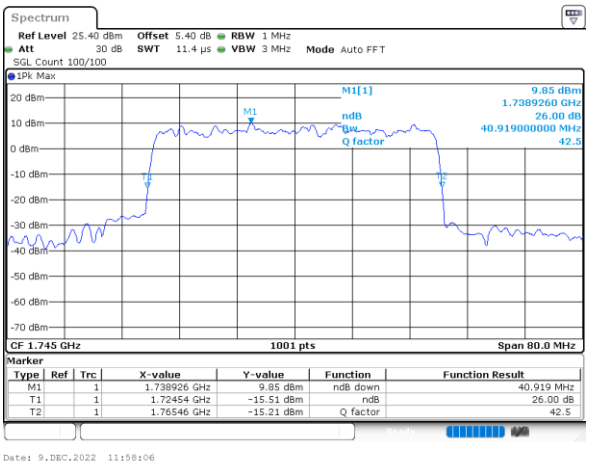
64QAM



256QAM

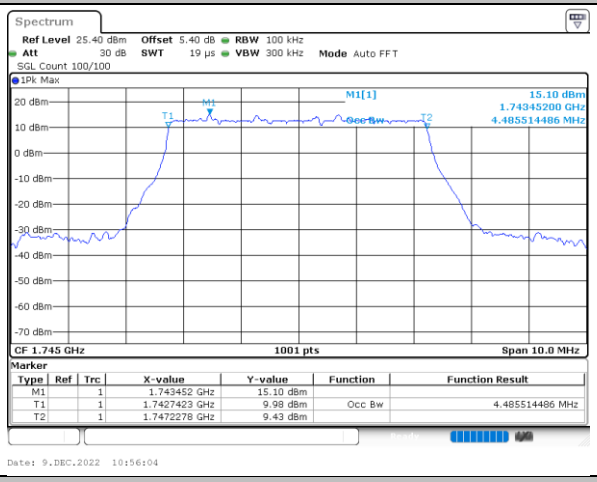
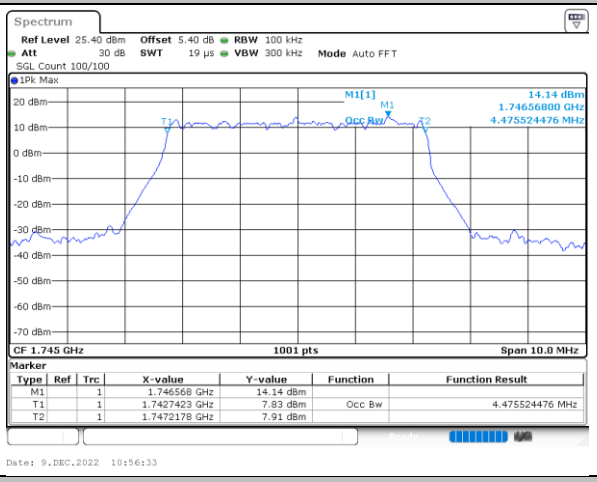
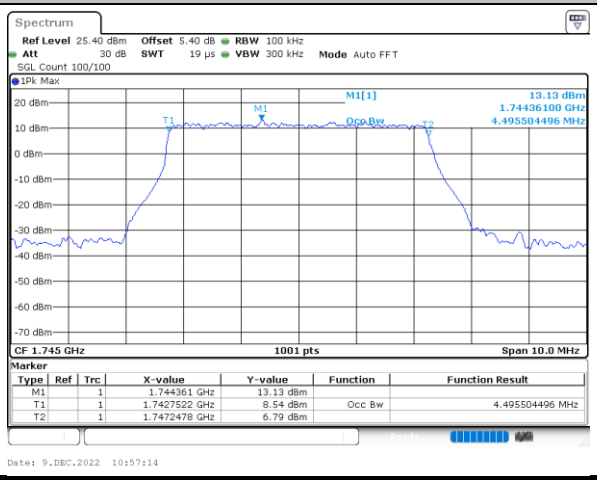
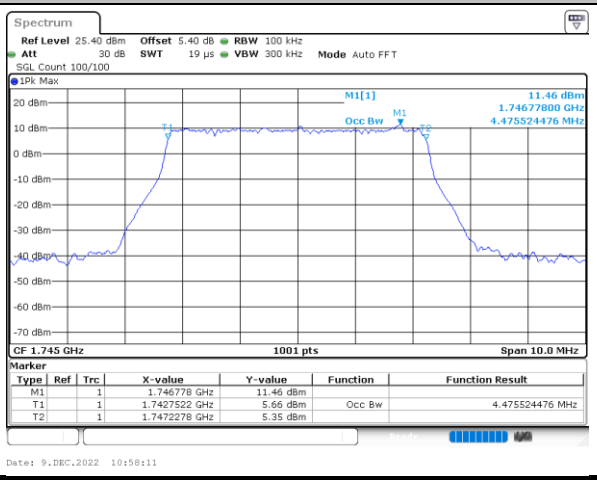


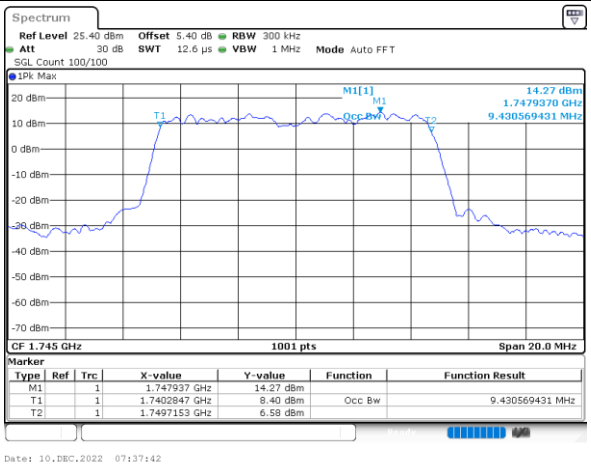
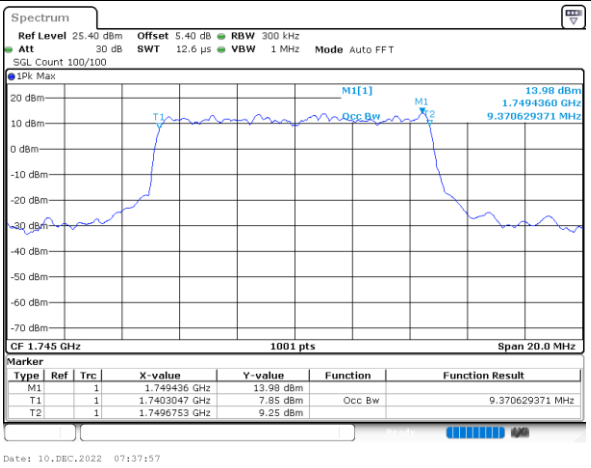
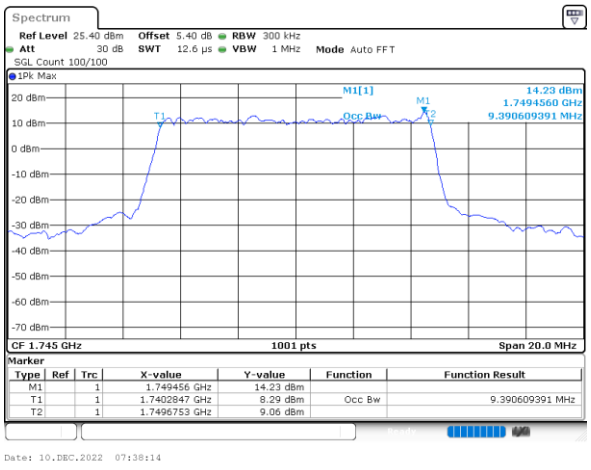
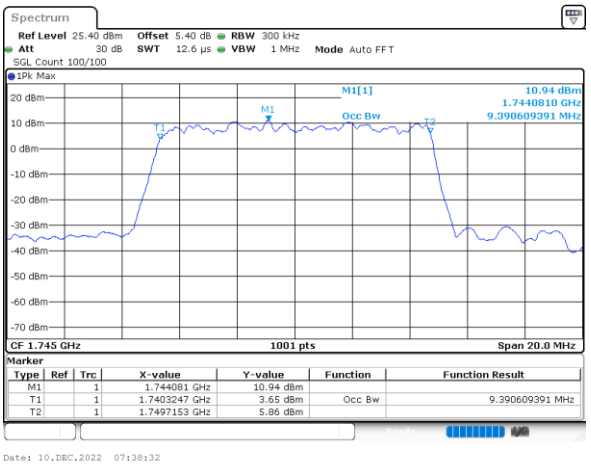
FR1 n66 / 30MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

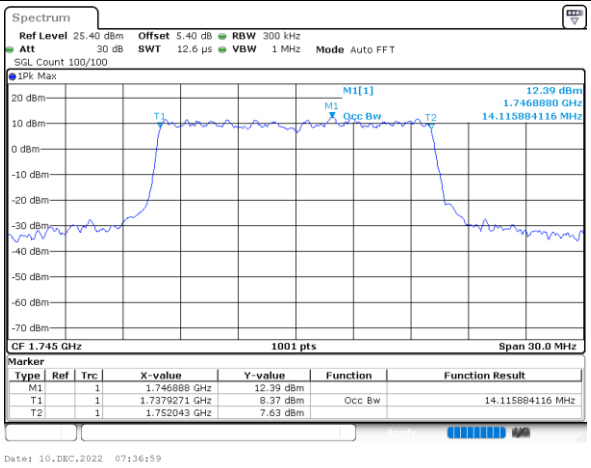
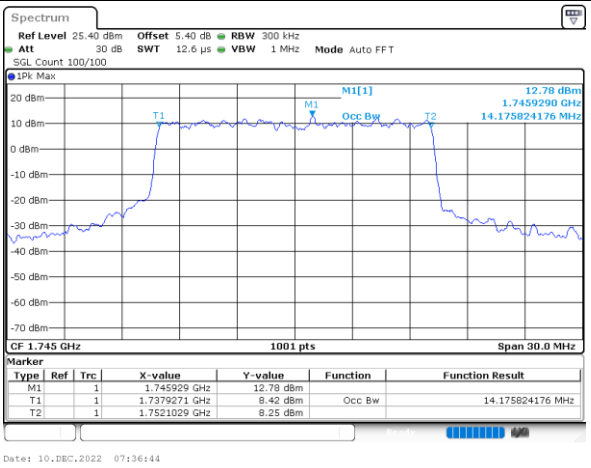
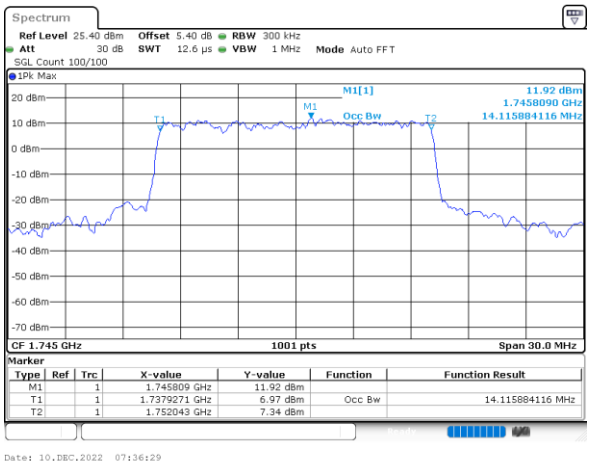
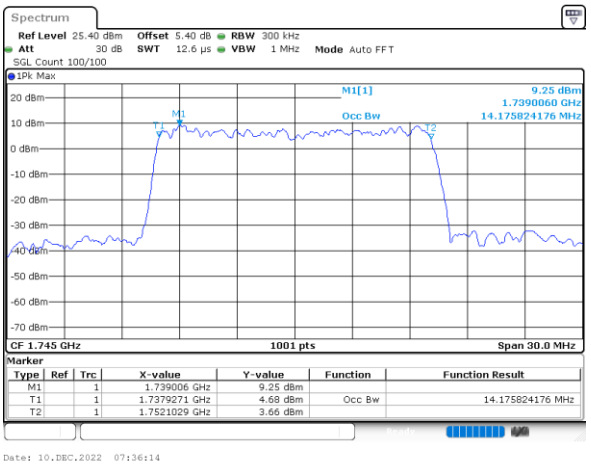
FR1 n66 / 40MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

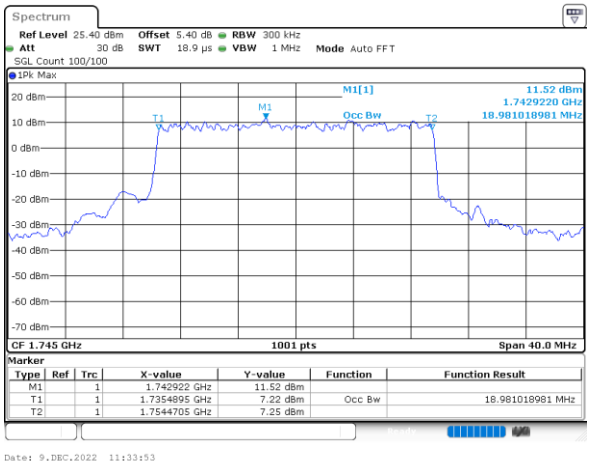
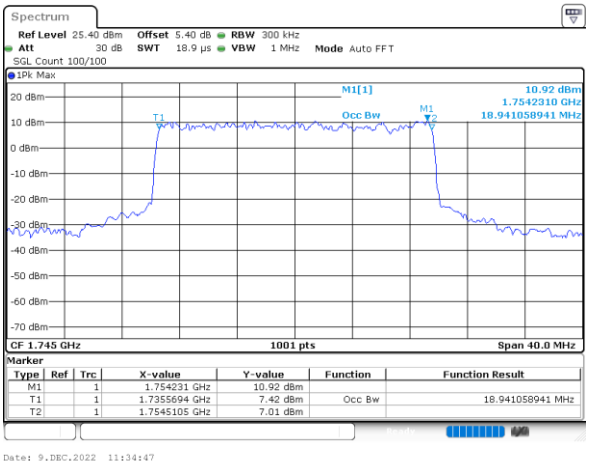
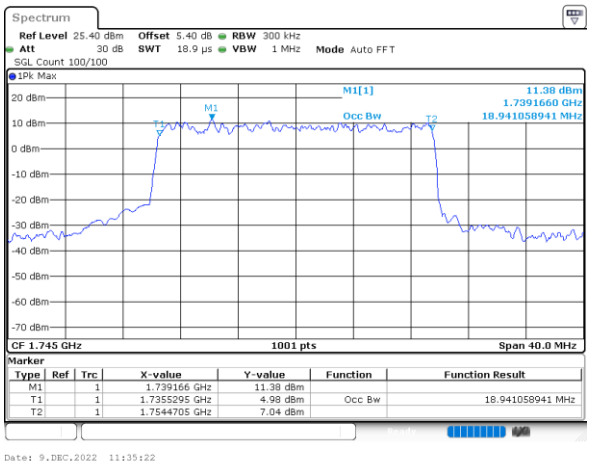
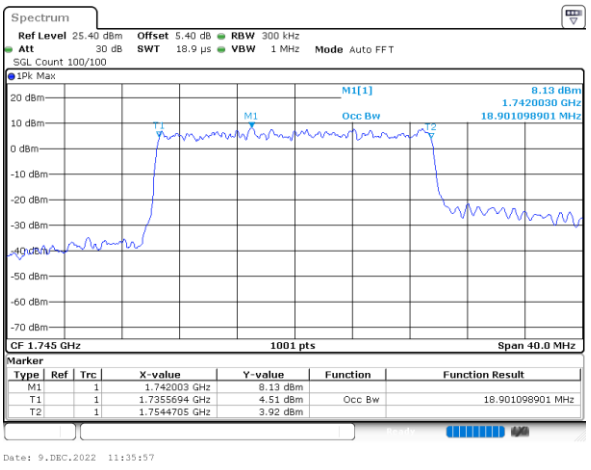
Occupied Bandwidth

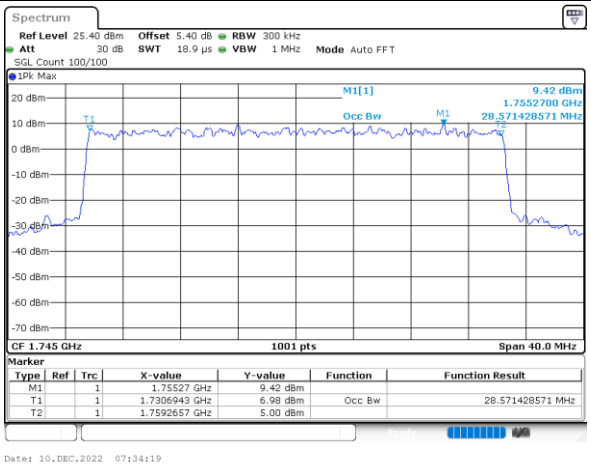
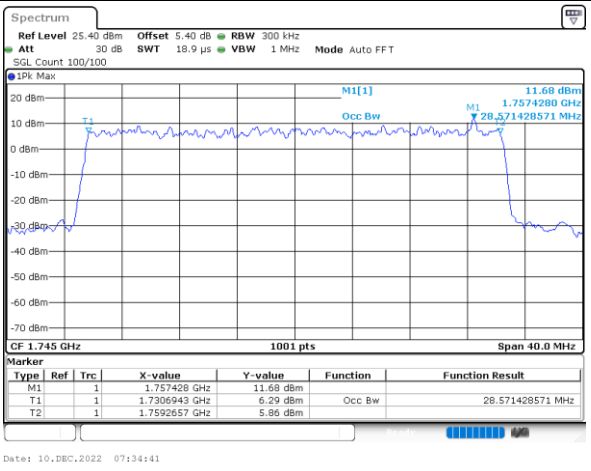
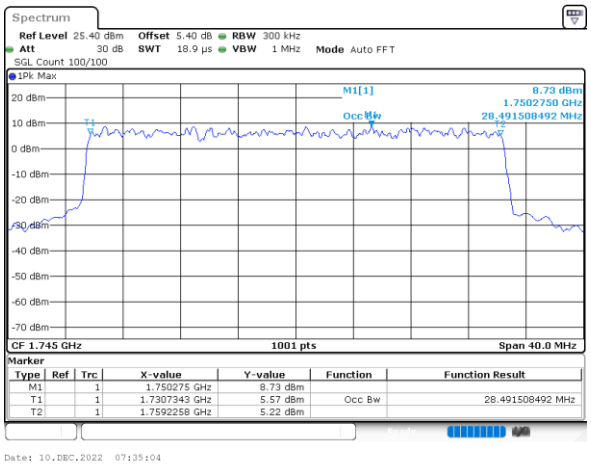
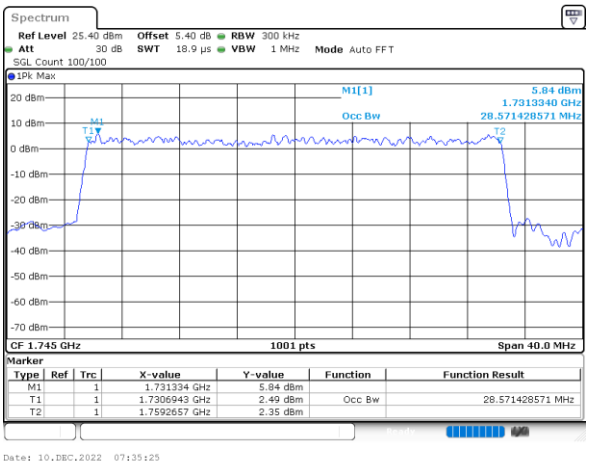
Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM			
BW	5M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.49	4.48	4.50	4.48
BW	10M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.43	9.37	9.39	9.39
BW	15M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.12	14.18	14.12	14.18
BW	20M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.98	18.94	18.94	18.90
BW	30M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.57	28.57	28.49	28.57
BW	40M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	38.68	38.84	38.76	38.84

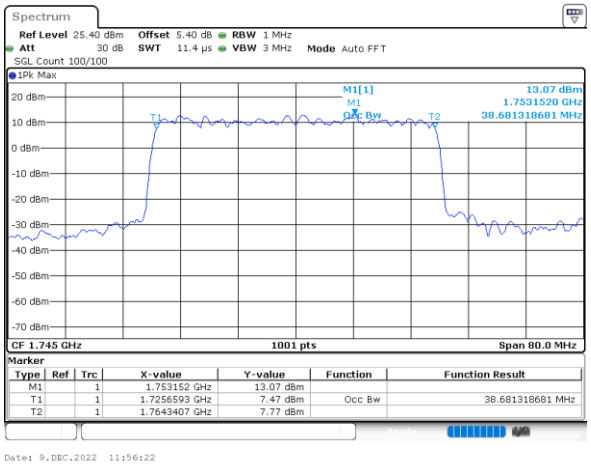
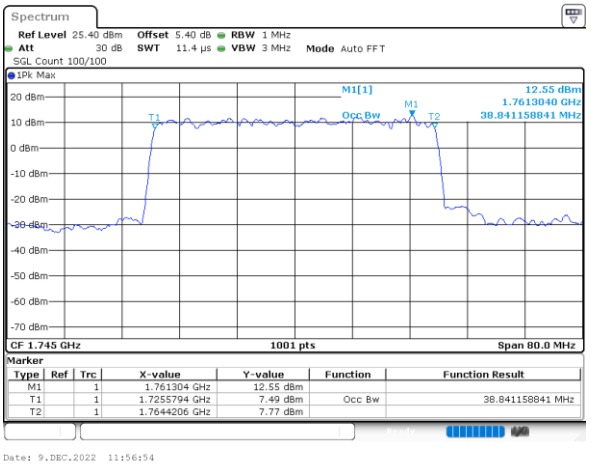
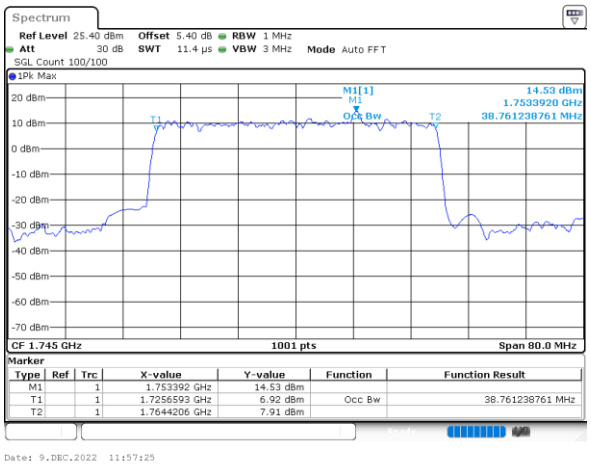
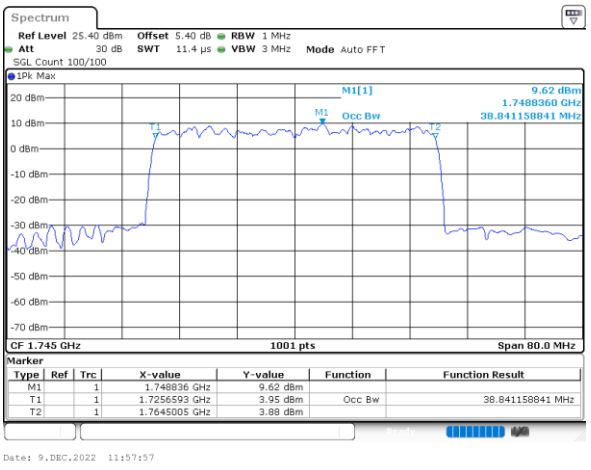
FR1 n66 / 5MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n66 / 10MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n66 / 15MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n66 / 20MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

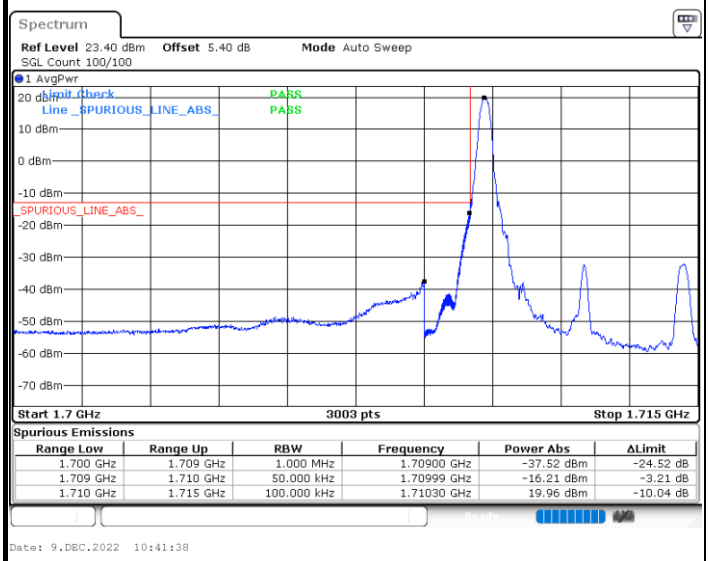
FR1 n66 / 30MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n66 / 40MHz / CP OFDM	
QPSK	16QAM
	
64QAM	256QAM
	

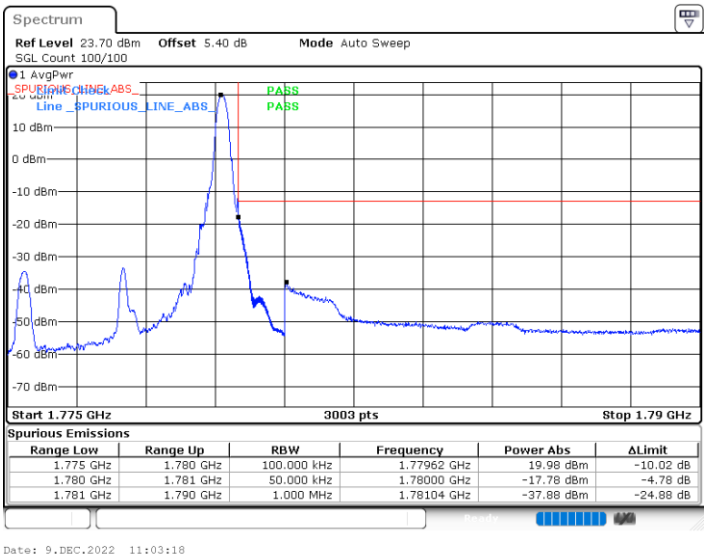
Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

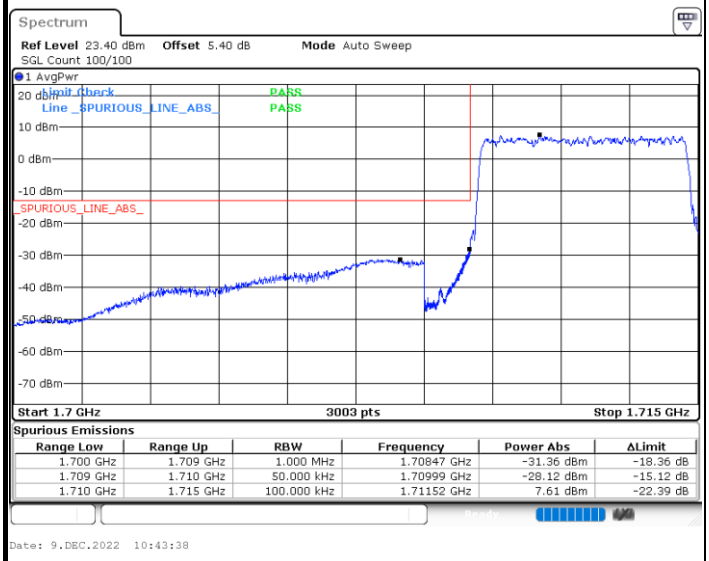
Lowest Band Edge / 1RB0



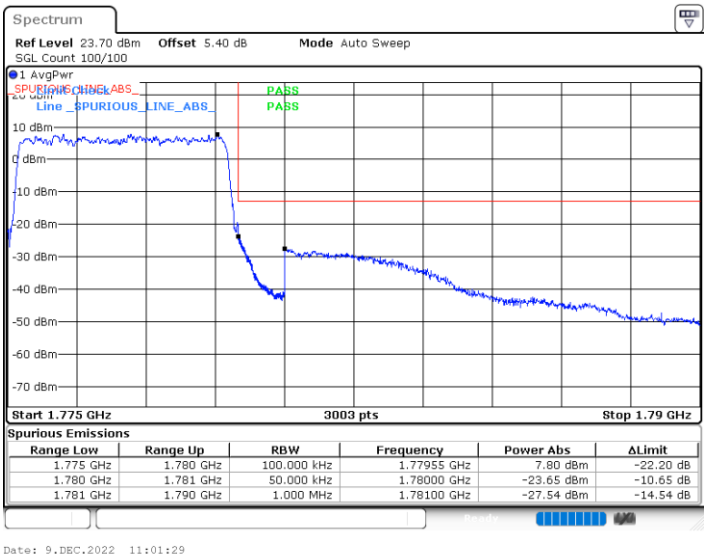
Highest Band Edge / 1RBmax

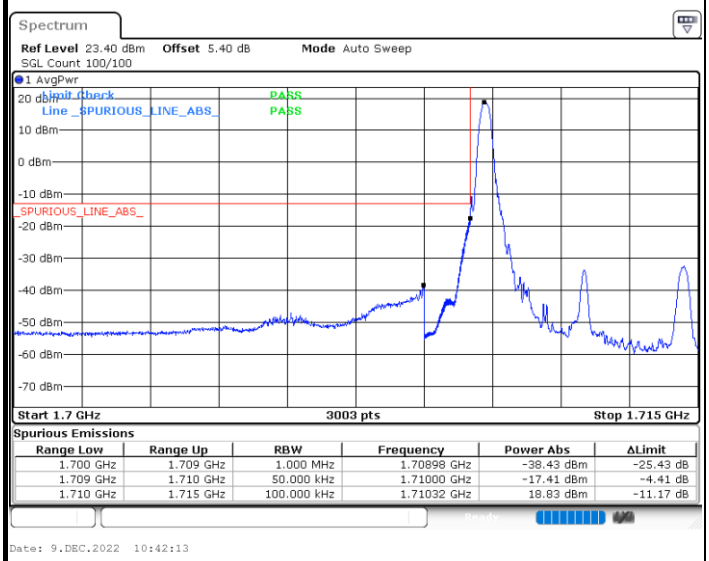
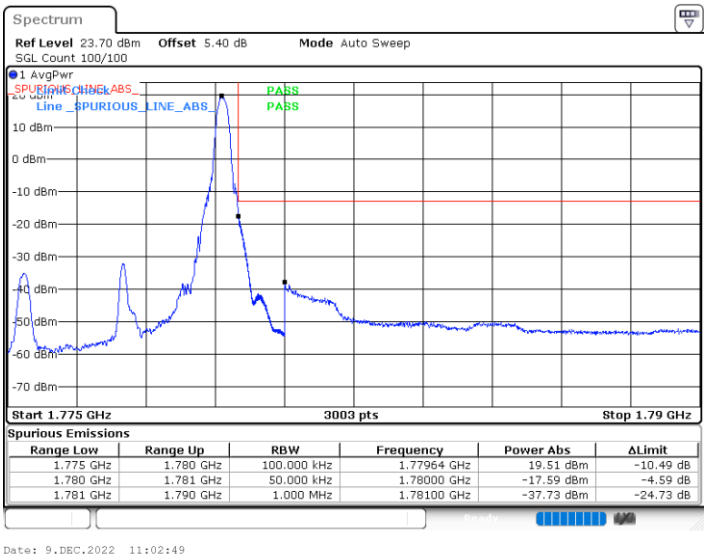
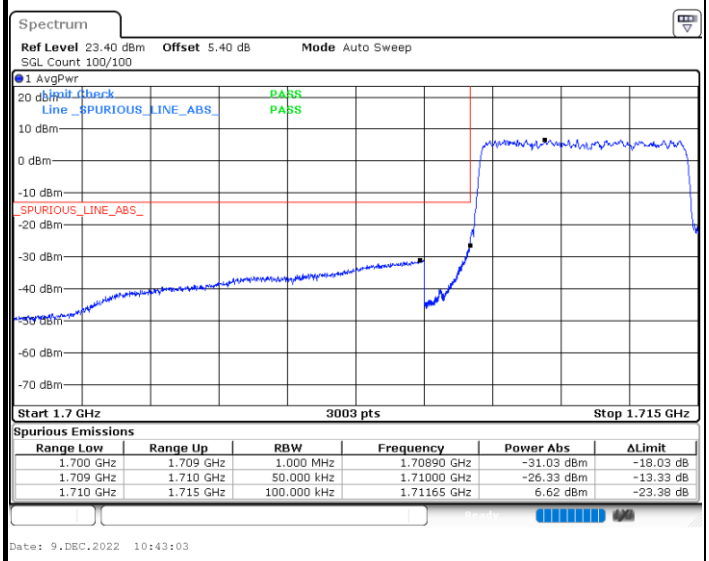
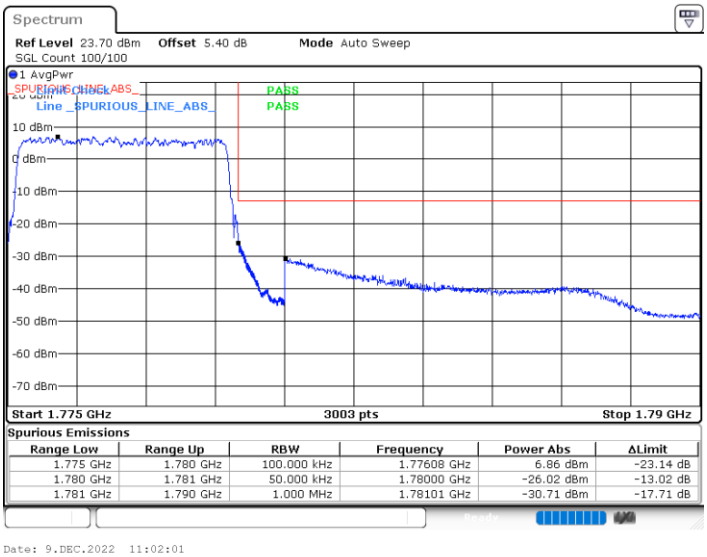


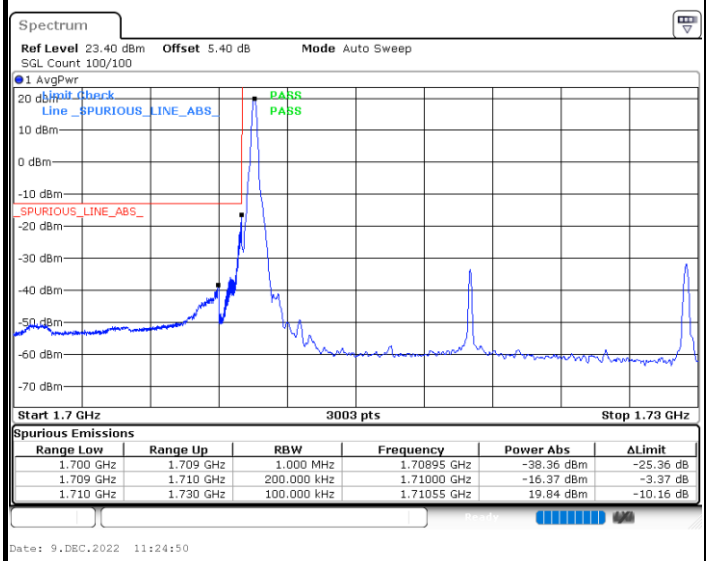
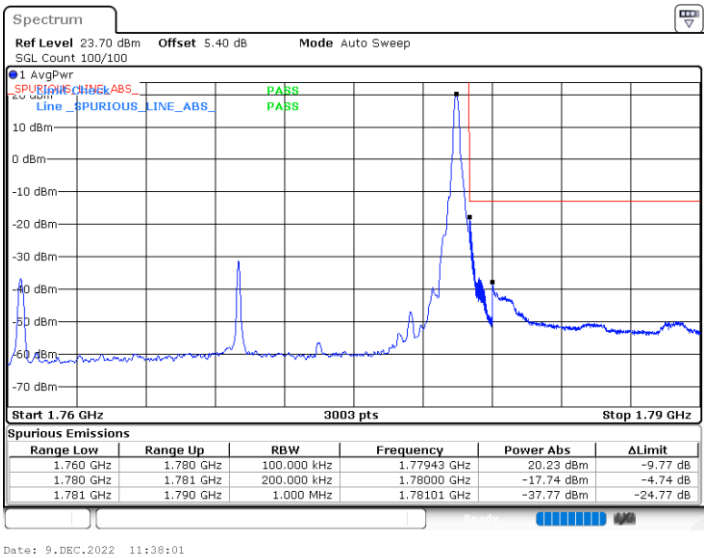
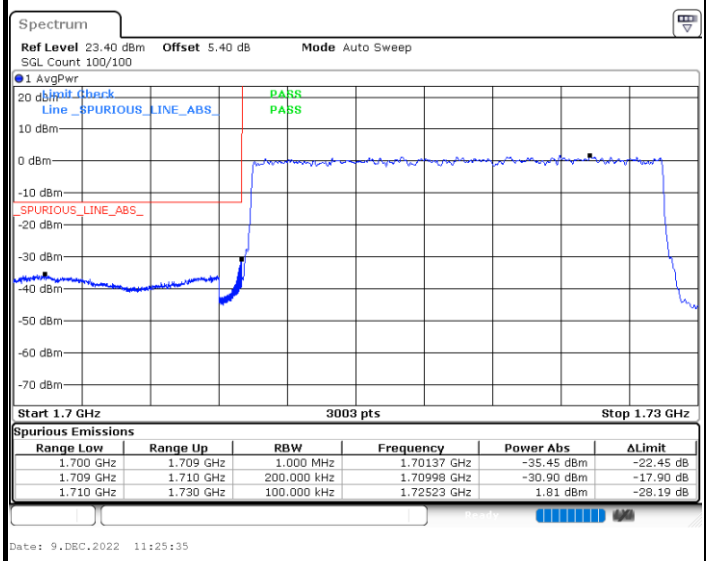
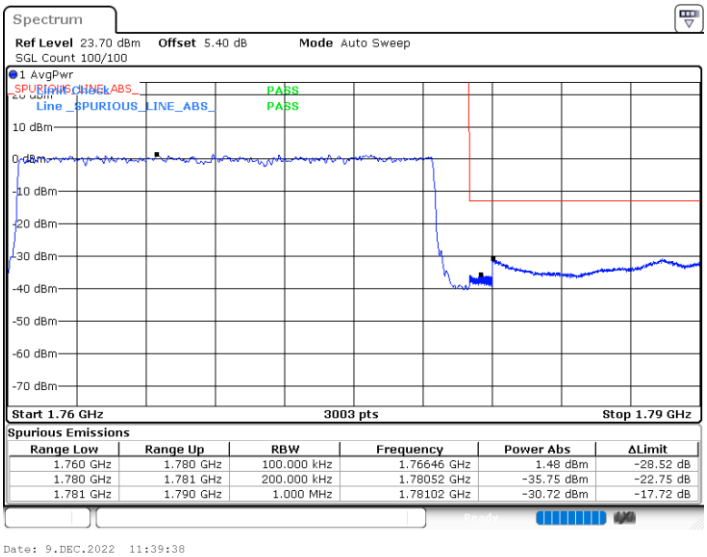
Lowest Band Edge / Full RB

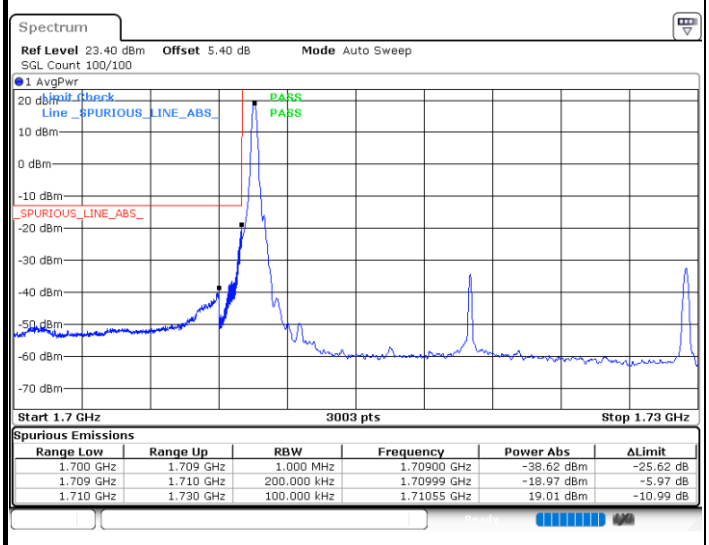
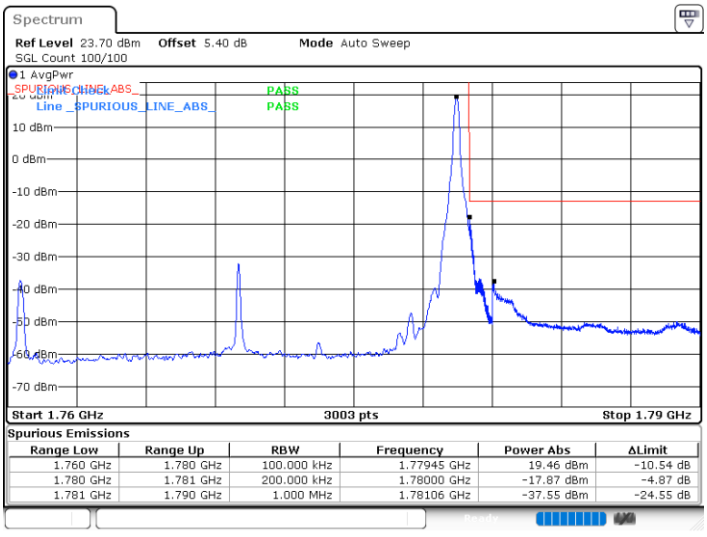
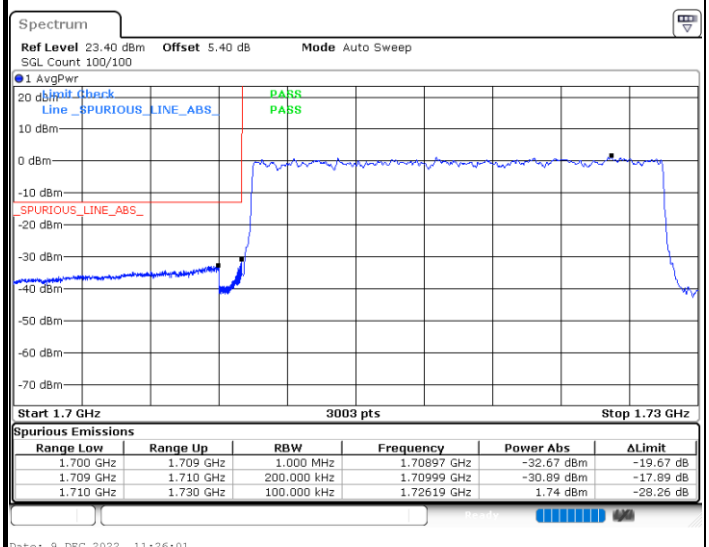
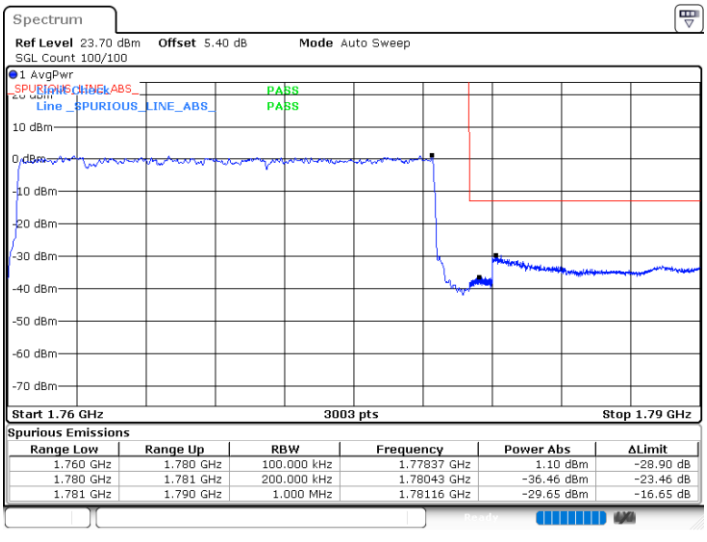


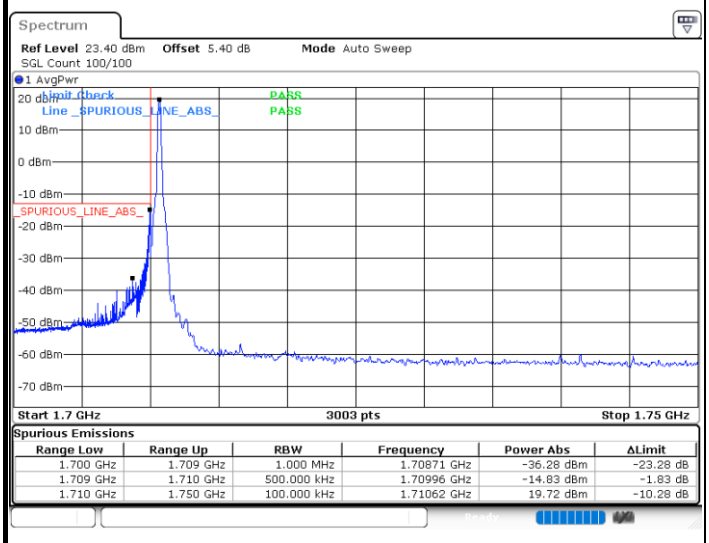
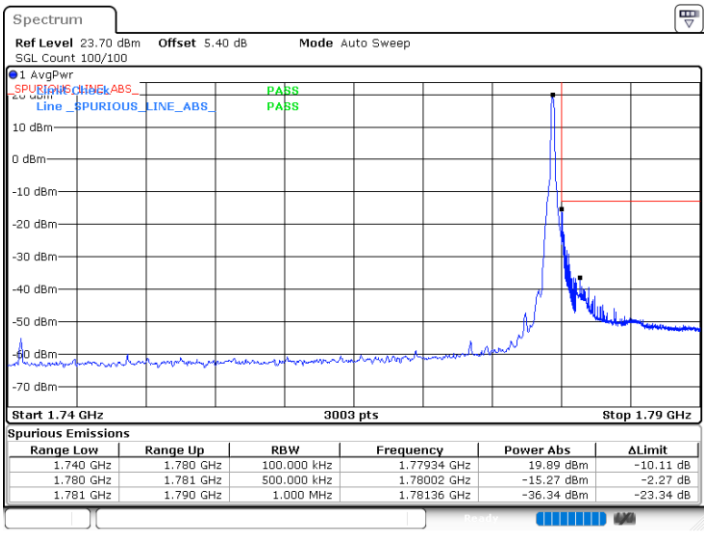
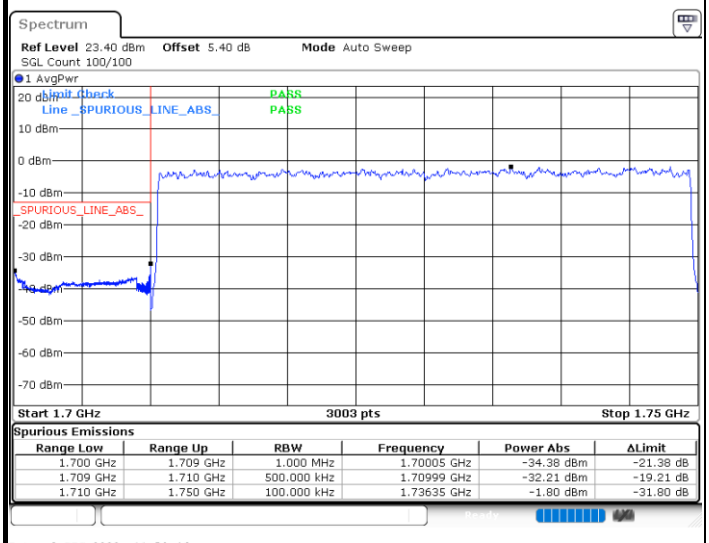
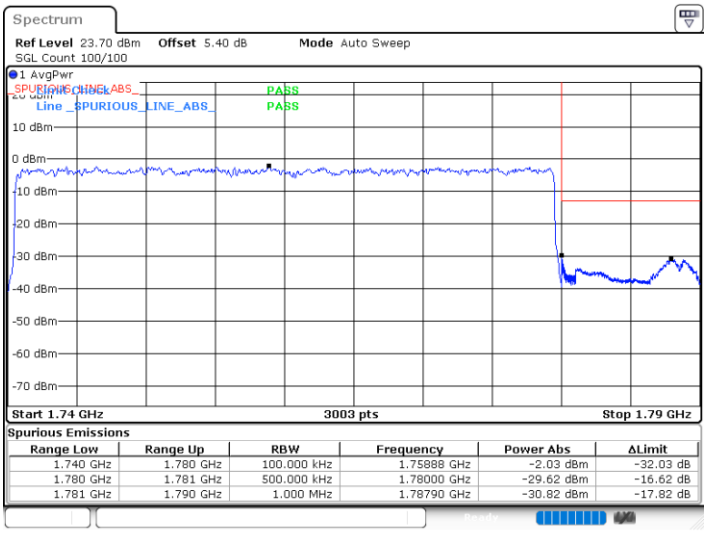
Highest Band Edge / Full RB



FR1 n66 / 5MHz / DFT-S OFDM / QPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

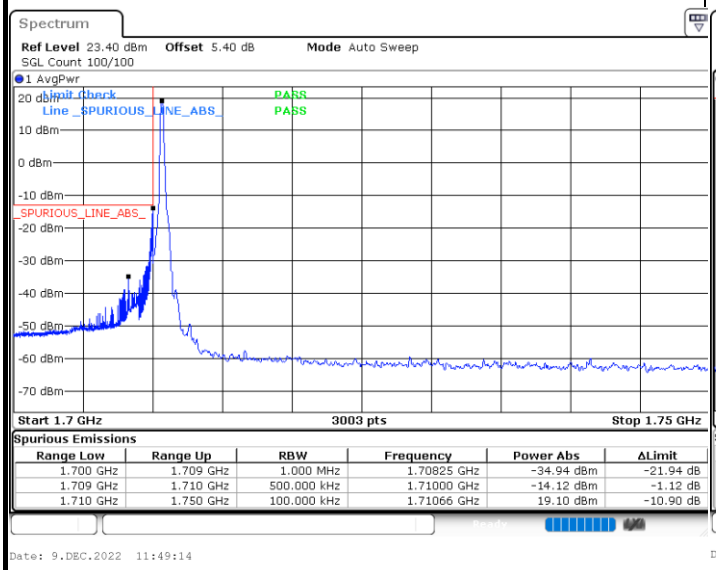
FR1 n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n66 / 20MHz / DFT-s-OFDM / QPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n66 / 40MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

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

Lowest Band Edge / 1RB0

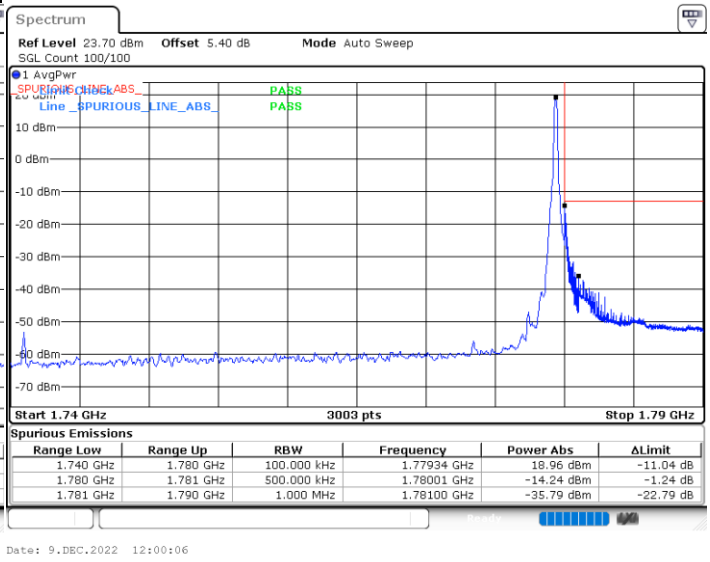


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70825 GHz	-34.94 dBm	-21.94 dB
1.709 GHz	1.710 GHz	500.000 kHz	1.71000 GHz	-14.12 dBm	-1.12 dB
1.710 GHz	1.750 GHz	100.000 kHz	1.71066 GHz	19.10 dBm	-10.90 dB

Date: 9.DEC.2022 11:49:14

Highest Band Edge / 1RBmax

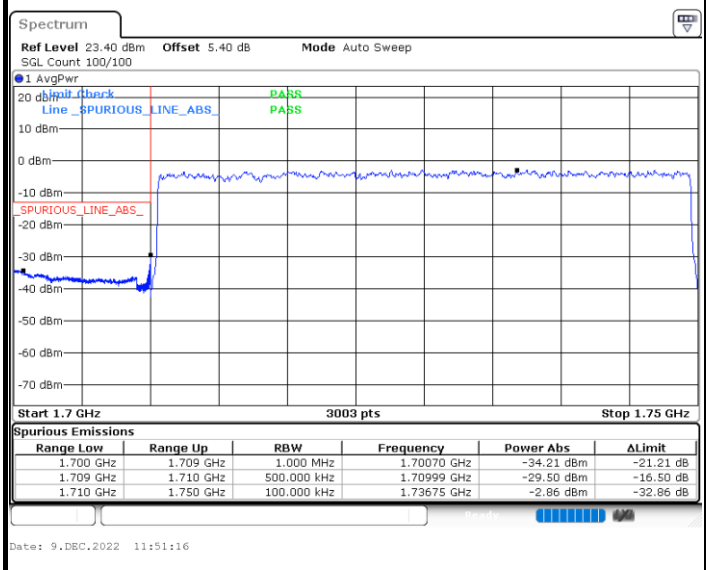


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.780 GHz	100.000 kHz	1.77934 GHz	18.96 dBm	-11.04 dB
1.780 GHz	1.781 GHz	500.000 kHz	1.78001 GHz	-14.24 dBm	-1.24 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78100 GHz	-35.79 dBm	-22.79 dB

Date: 9.DEC.2022 12:00:06

Lowest Band Edge / Full RB

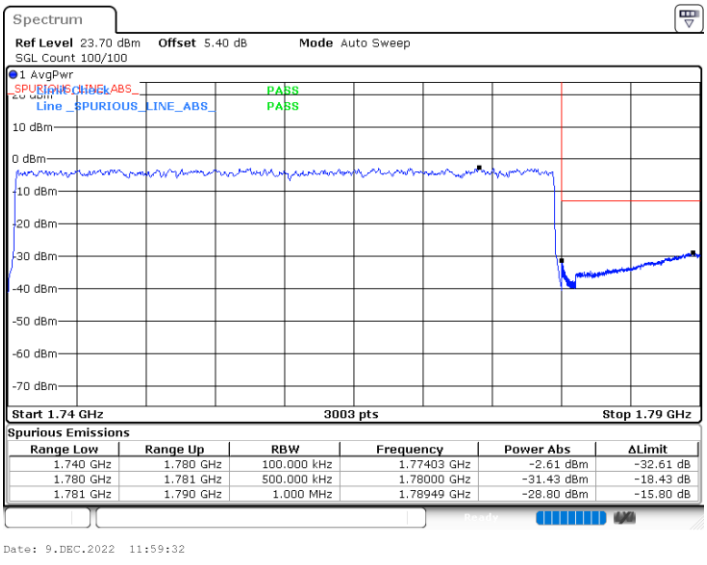


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70070 GHz	-34.21 dBm	-21.21 dB
1.709 GHz	1.710 GHz	500.000 kHz	1.70999 GHz	-29.50 dBm	-16.50 dB
1.710 GHz	1.750 GHz	100.000 kHz	1.73675 GHz	-2.86 dBm	-32.86 dB

Date: 9.DEC.2022 11:51:16

Highest Band Edge / Full RB



Spurious Emissions

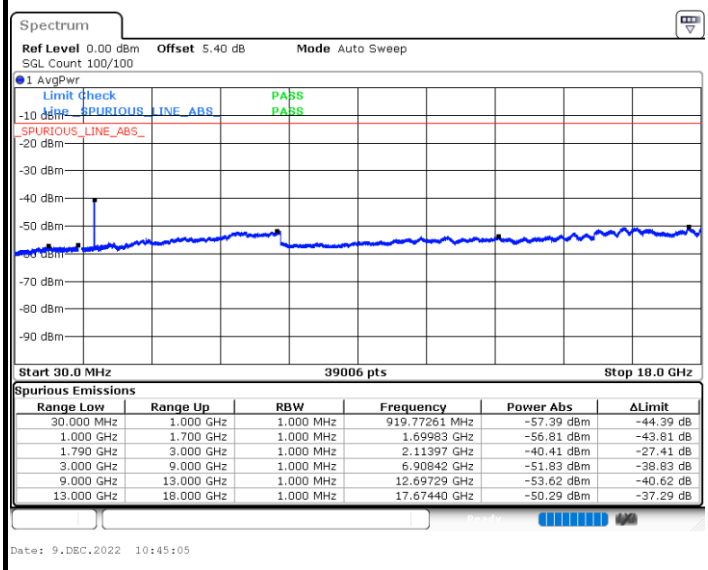
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.780 GHz	100.000 kHz	1.77403 GHz	-2.61 dBm	-32.61 dB
1.780 GHz	1.781 GHz	500.000 kHz	1.78000 GHz	-31.43 dBm	-18.43 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78949 GHz	-28.80 dBm	-15.80 dB

Date: 9.DEC.2022 11:59:32

Conducted Spurious Emission

FR1 n66 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

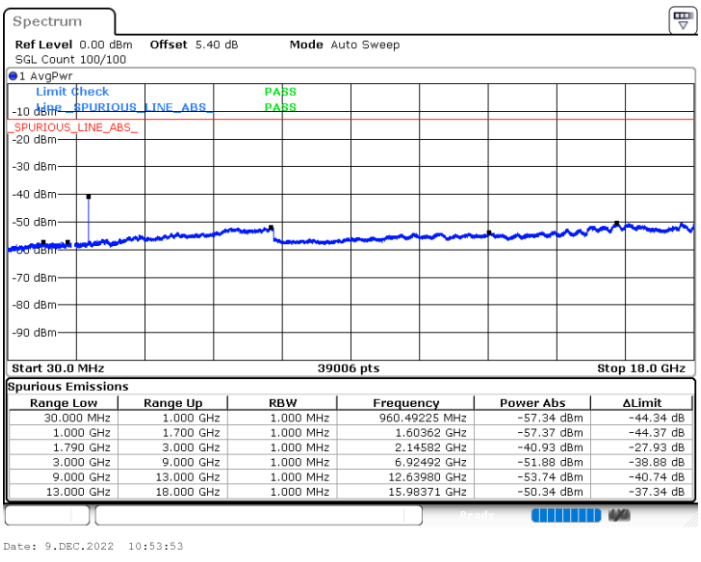


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	919.77261 MHz	-57.39 dBm	-44.39 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-56.81 dBm	-43.81 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11397 GHz	-40.41 dBm	-27.41 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.90842 GHz	-51.83 dBm	-38.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69729 GHz	-53.62 dBm	-40.62 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.67440 GHz	-50.29 dBm	-37.29 dB

Date: 9.DEC.2022 10:45:05

Middle Channel / 1RB1

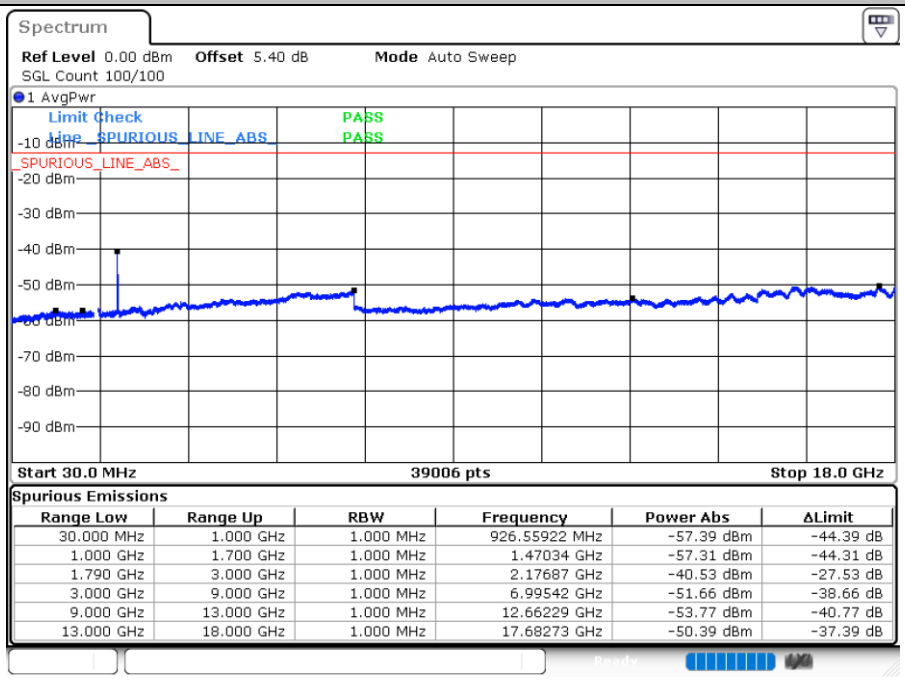


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.49225 MHz	-57.34 dBm	-44.34 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.60362 GHz	-57.37 dBm	-44.37 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14582 GHz	-40.93 dBm	-27.93 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.92492 GHz	-51.88 dBm	-38.88 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.63980 GHz	-53.74 dBm	-40.74 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.98371 GHz	-50.34 dBm	-37.34 dB

Date: 9.DEC.2022 10:53:53

Highest Channel / 1RB1



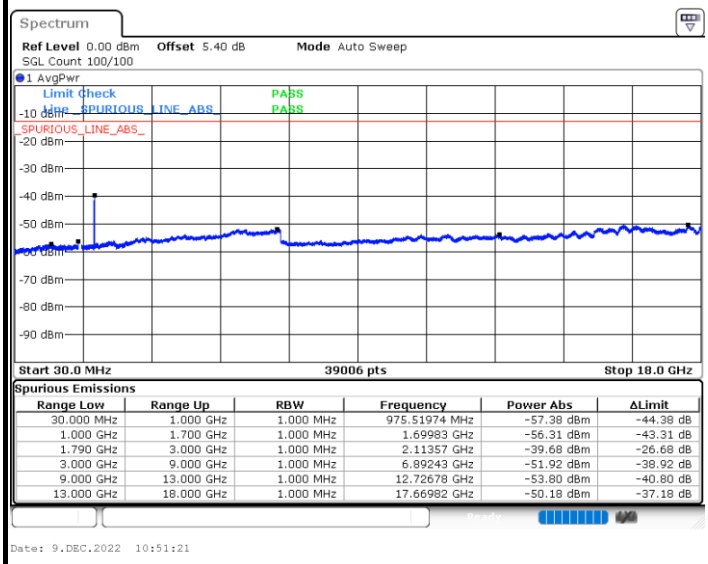
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	926.55922 MHz	-57.39 dBm	-44.39 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.47034 GHz	-57.31 dBm	-44.31 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.17687 GHz	-40.53 dBm	-27.53 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99542 GHz	-51.66 dBm	-38.66 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.66229 GHz	-53.77 dBm	-40.77 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.68273 GHz	-50.39 dBm	-37.39 dB

Date: 9.DEC.2022 11:04:33

FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

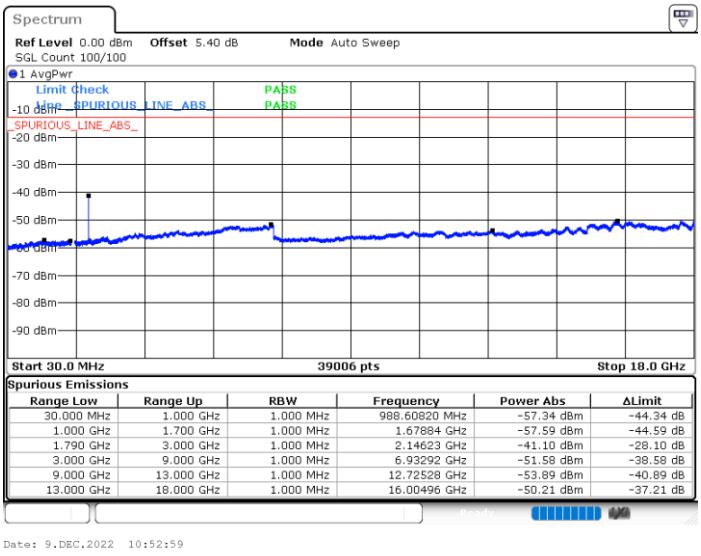


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	975.51974 MHz	-57.38 dBm	-44.38 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-56.31 dBm	-43.31 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11357 GHz	-39.68 dBm	-26.68 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.89243 GHz	-51.92 dBm	-38.92 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.72678 GHz	-53.80 dBm	-40.80 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.66982 GHz	-50.18 dBm	-37.18 dB

Date: 9.DEC.2022 10:51:21

Middle Channel / 1RB1

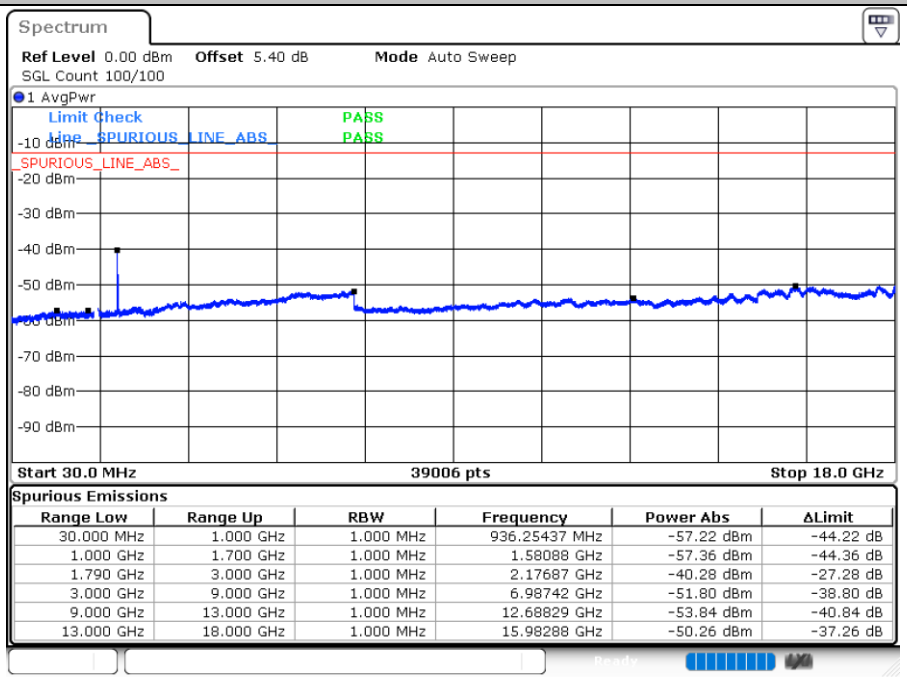


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.60820 MHz	-57.34 dBm	-44.34 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67884 GHz	-57.59 dBm	-44.59 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14623 GHz	-41.10 dBm	-28.10 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93292 GHz	-51.58 dBm	-38.58 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.72528 GHz	-53.89 dBm	-40.89 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.00496 GHz	-50.21 dBm	-37.21 dB

Date: 9.DEC.2022 10:52:59

Highest Channel / 1RB1



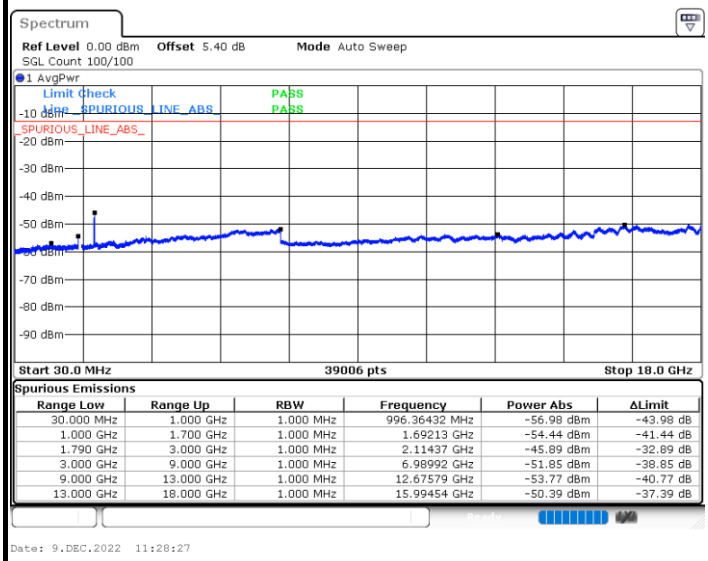
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	936.25437 MHz	-57.22 dBm	-44.22 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.58088 GHz	-57.36 dBm	-44.36 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.17687 GHz	-40.28 dBm	-27.28 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98742 GHz	-51.80 dBm	-38.80 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68829 GHz	-53.84 dBm	-40.84 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.98288 GHz	-50.26 dBm	-37.26 dB

Date: 9.DEC.2022 11:07:56

FR1 n66 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

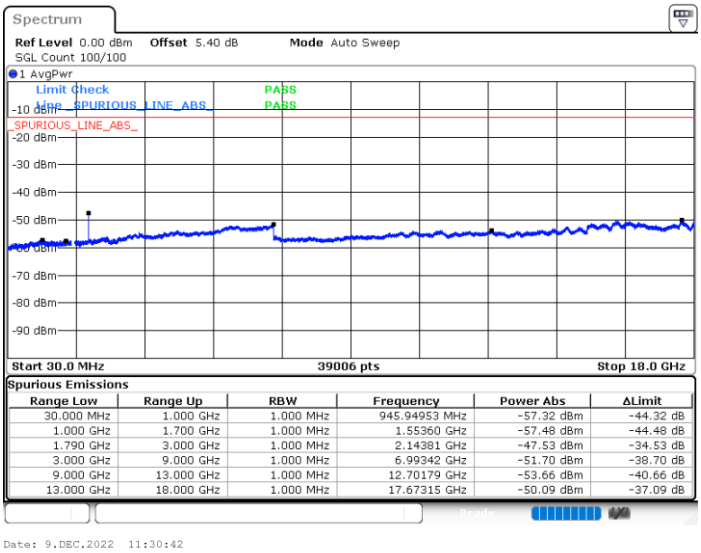


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.36432 MHz	-56.98 dBm	-43.98 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69213 GHz	-54.44 dBm	-41.44 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11437 GHz	-45.89 dBm	-32.89 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98992 GHz	-51.85 dBm	-38.85 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67579 GHz	-53.77 dBm	-40.77 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.99454 GHz	-50.39 dBm	-37.39 dB

Date: 9.DEC.2022 11:28:27

Middle Channel / 1RB1

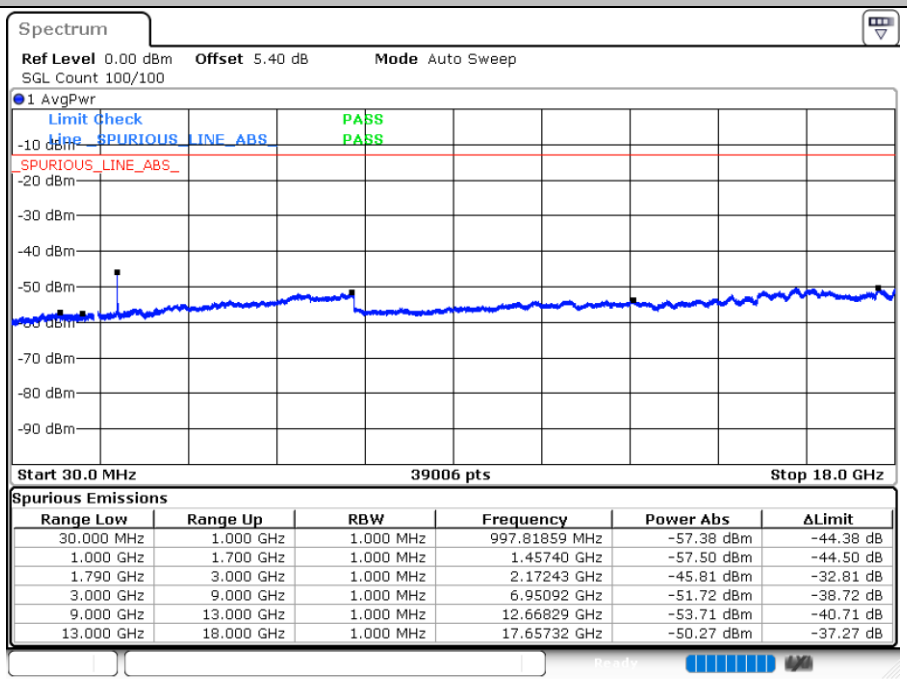


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	945.94953 MHz	-57.32 dBm	-44.32 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.55360 GHz	-57.48 dBm	-44.48 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14381 GHz	-47.53 dBm	-34.53 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99342 GHz	-51.70 dBm	-38.70 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70179 GHz	-53.66 dBm	-40.66 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.67315 GHz	-50.09 dBm	-37.09 dB

Date: 9.DEC.2022 11:30:42

Highest Channel / 1RB1



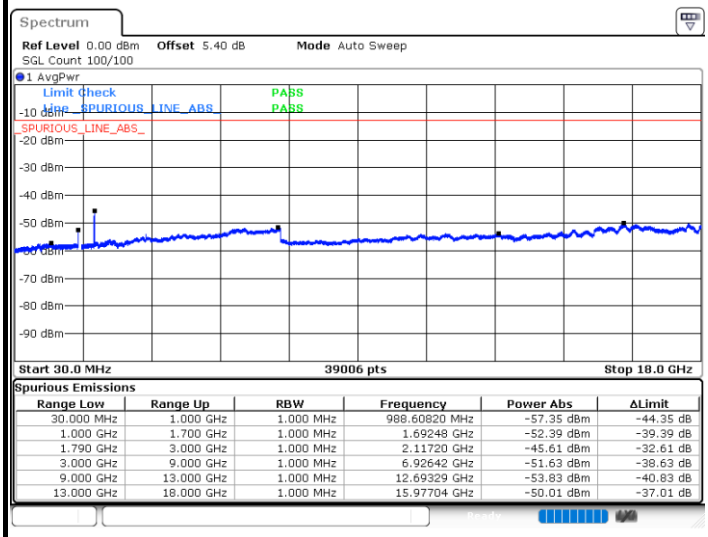
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-57.38 dBm	-44.38 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.45740 GHz	-57.50 dBm	-44.50 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.17243 GHz	-45.81 dBm	-32.81 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95092 GHz	-51.72 dBm	-38.72 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.66829 GHz	-53.71 dBm	-40.71 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.65732 GHz	-50.27 dBm	-37.27 dB

Date: 9.DEC.2022 11:41:03

FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

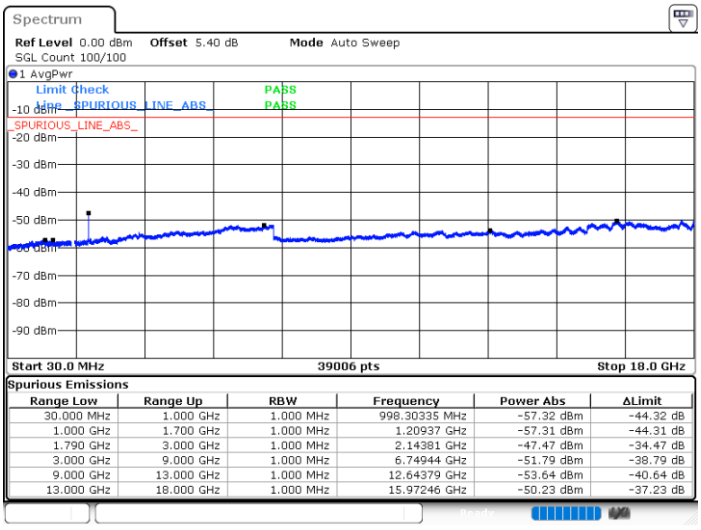


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.60820 MHz	-57.35 dBm	-44.35 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69248 GHz	-52.39 dBm	-39.39 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11720 GHz	-45.61 dBm	-32.61 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.92642 GHz	-51.63 dBm	-38.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69329 GHz	-53.83 dBm	-40.83 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.97704 GHz	-50.01 dBm	-37.01 dB

Date: 9.DEC.2022 11:27:26

Middle Channel / 1RB1

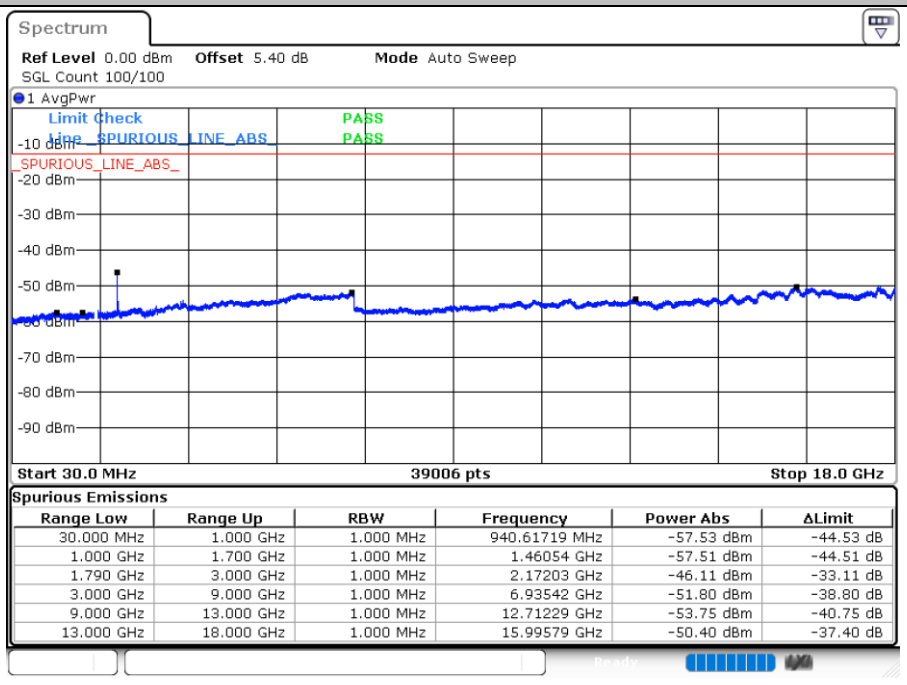


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-57.32 dBm	-44.32 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.20937 GHz	-57.31 dBm	-44.31 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14381 GHz	-47.47 dBm	-34.47 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.74944 GHz	-51.79 dBm	-38.79 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64379 GHz	-53.64 dBm	-40.64 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.97246 GHz	-50.23 dBm	-37.23 dB

Date: 9.DEC.2022 11:31:50

Highest Channel / 1RB1



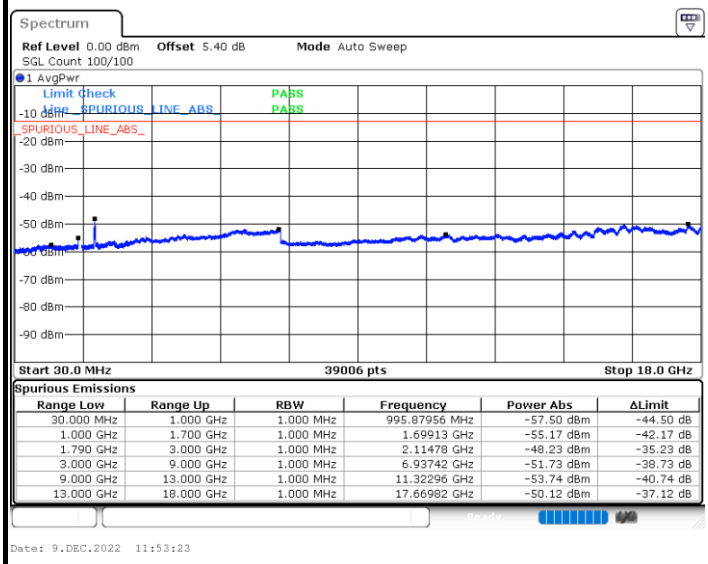
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.61719 MHz	-57.53 dBm	-44.53 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.46054 GHz	-57.51 dBm	-44.51 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.17203 GHz	-46.11 dBm	-33.11 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93542 GHz	-51.80 dBm	-38.80 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.71229 GHz	-53.75 dBm	-40.75 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.99579 GHz	-50.40 dBm	-37.40 dB

Date: 9.DEC.2022 11:46:09

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

Lowest Channel / 1RB1

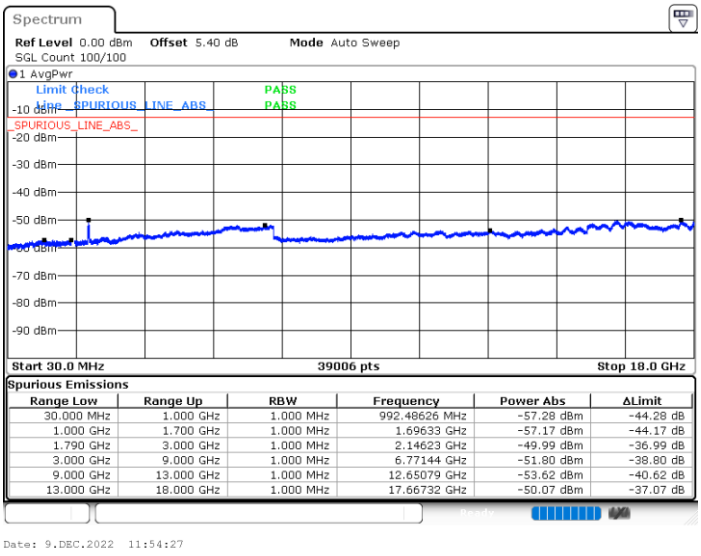


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	995.87956 MHz	-57.50 dBm	-44.50 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69913 GHz	-55.17 dBm	-42.17 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11478 GHz	-48.23 dBm	-35.23 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93742 GHz	-51.73 dBm	-38.73 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.32296 GHz	-53.74 dBm	-40.74 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.66982 GHz	-50.12 dBm	-37.12 dB

Date: 9.DEC.2022 11:53:23

Middle Channel / 1RB1

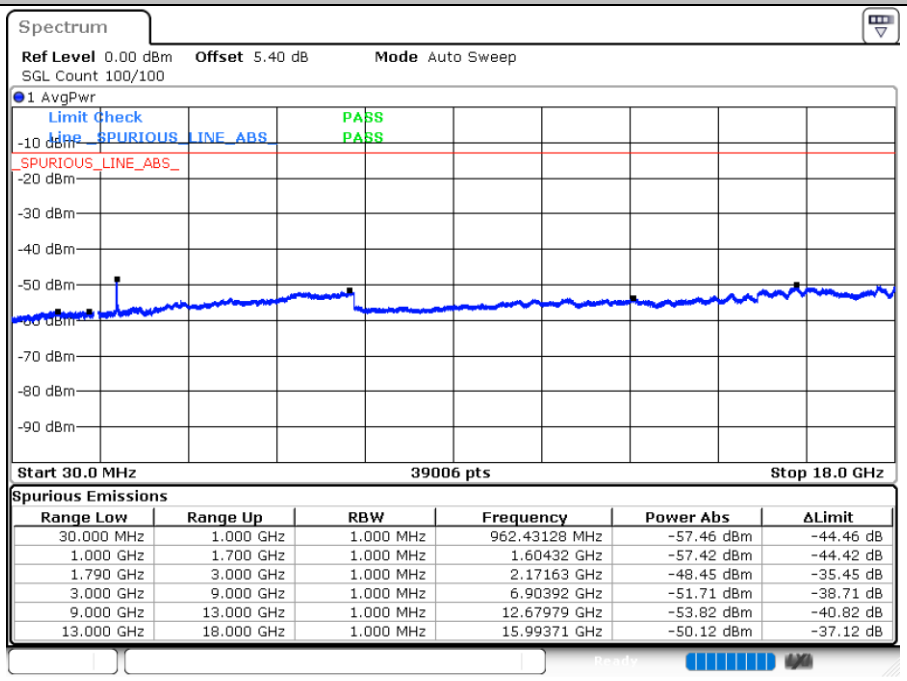


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.48626 MHz	-57.28 dBm	-44.28 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69633 GHz	-57.17 dBm	-44.17 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14623 GHz	-49.99 dBm	-36.99 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.77144 GHz	-51.80 dBm	-38.80 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.65079 GHz	-53.62 dBm	-40.62 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.66732 GHz	-50.07 dBm	-37.07 dB

Date: 9.DEC.2022 11:54:27

Highest Channel / 1RB1



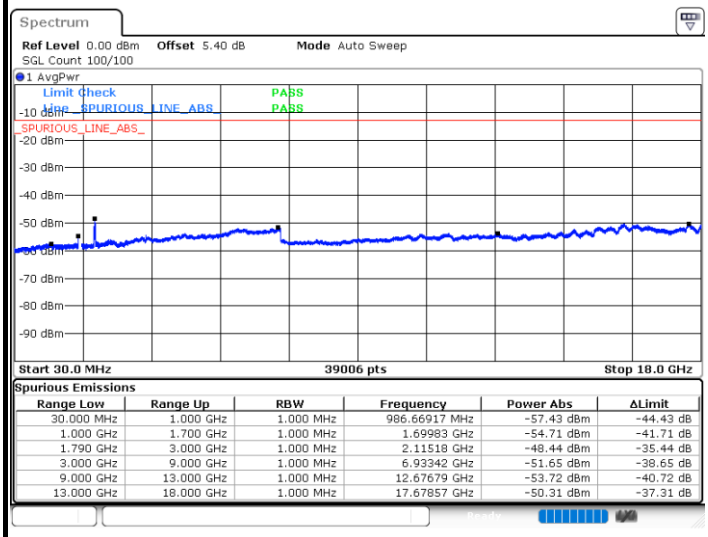
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	962.43128 MHz	-57.46 dBm	-44.46 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.60432 GHz	-57.42 dBm	-44.42 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.17163 GHz	-48.45 dBm	-35.45 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.90392 GHz	-51.71 dBm	-38.71 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67979 GHz	-53.82 dBm	-40.82 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.99371 GHz	-50.12 dBm	-37.12 dB

Date: 9.DEC.2022 12:01:48

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

Lowest Channel / 1RB1

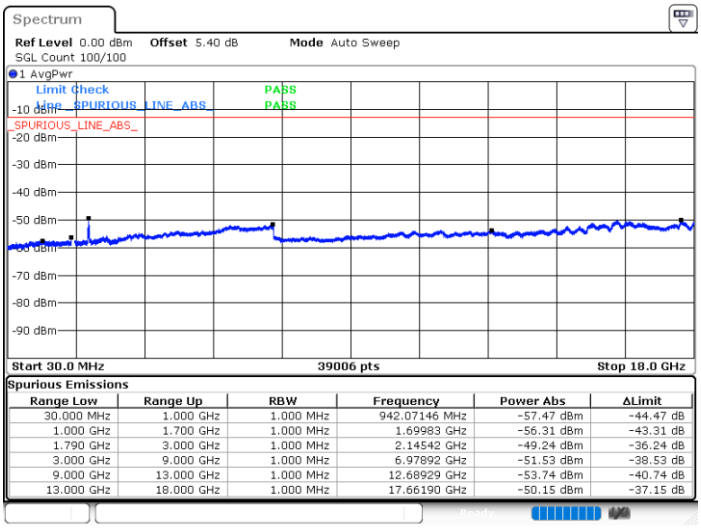


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.66917 MHz	-57.43 dBm	-44.43 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-54.71 dBm	-41.71 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11518 GHz	-48.44 dBm	-35.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93342 GHz	-51.65 dBm	-38.65 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67679 GHz	-53.72 dBm	-40.72 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.67857 GHz	-50.31 dBm	-37.31 dB

Date: 9.DEC.2022 11:52:36

Middle Channel / 1RB1

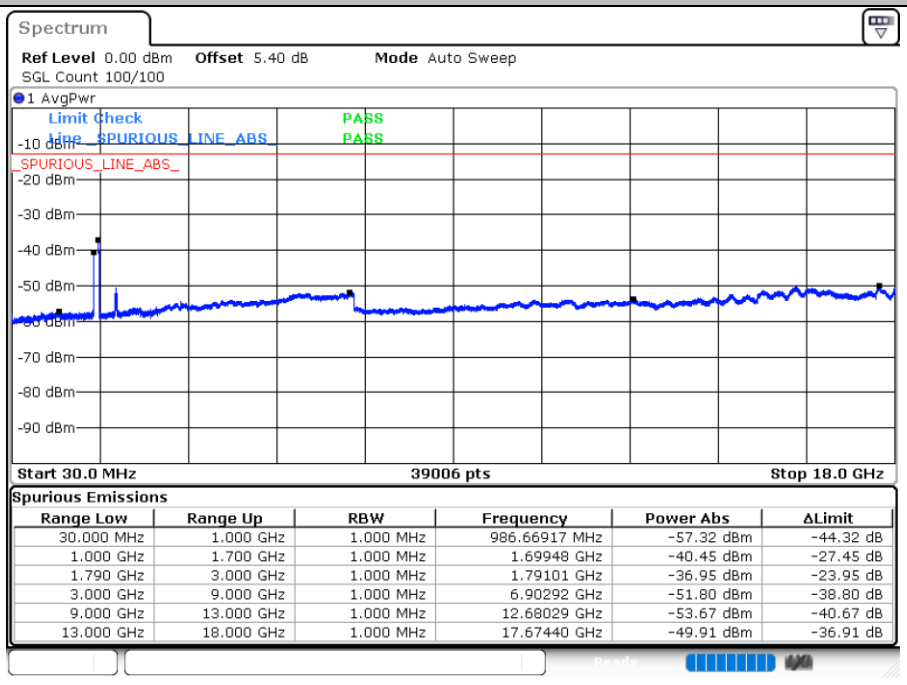


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.07146 MHz	-57.47 dBm	-44.47 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-56.31 dBm	-43.31 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14542 GHz	-49.24 dBm	-36.24 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.97892 GHz	-51.53 dBm	-38.53 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68929 GHz	-53.74 dBm	-40.74 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.66190 GHz	-50.15 dBm	-37.15 dB

Date: 9.DEC.2022 11:55:24

Highest Channel / 1RB1



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.66917 MHz	-57.32 dBm	-44.32 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-40.45 dBm	-27.45 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79101 GHz	-36.95 dBm	-23.95 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.90292 GHz	-51.80 dBm	-38.80 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68029 GHz	-53.67 dBm	-40.67 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.67440 GHz	-49.91 dBm	-36.91 dB

Date: 10.DEC.2022 07:25:15

Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0006	

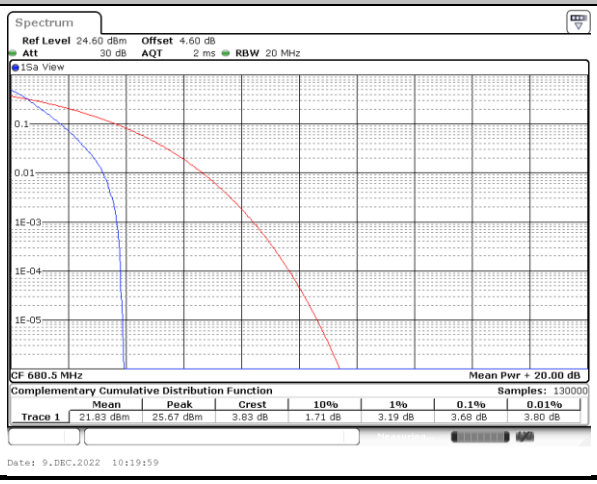
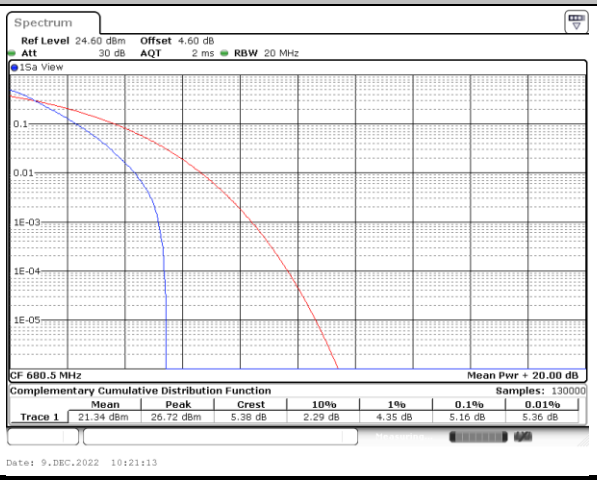
Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

FR1 n71

Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK			Limit: 13dB
RB Size	Full RB	Full RB			Result
Middle CH	3.68	5.16			

FR1 n71 / 20MHz / DFT-S OFDM	
Middle Channel / Full RB	Middle Channel / Full RB
PI/2 BPSK	QPSK
	

26dB Bandwidth

Mode	FR1 n71: 26dB / DFT-S OFDM			
BW	5MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	5.16	5.19	5.09	5.30
BW	10MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	10.11	10.19	10.19	10.29
BW	15MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	15.08	14.90	14.99	14.96
BW	20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.86	19.78	19.98	20.14