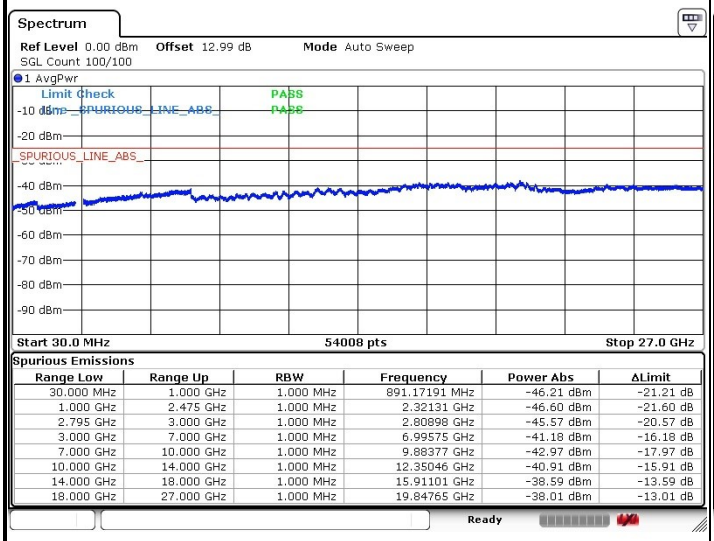
FR1 n41 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

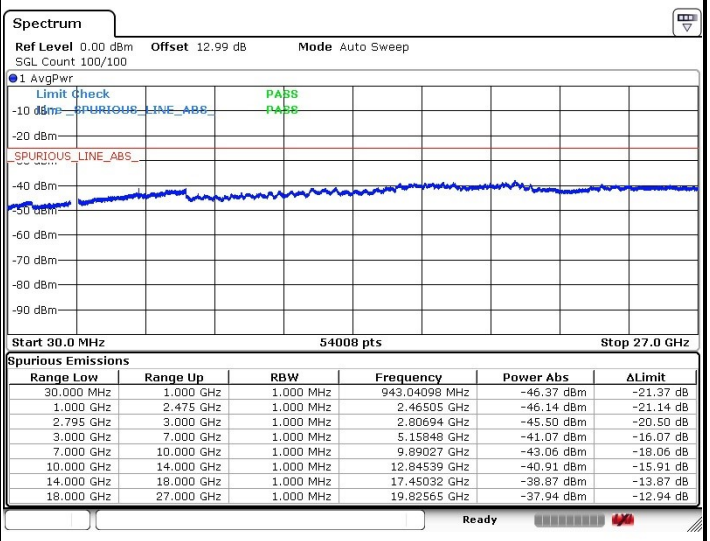


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	891.17191 MHz	-46.21 dBm	-21.21 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.32131 GHz	-46.60 dBm	-21.60 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80898 GHz	-45.57 dBm	-20.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-41.18 dBm	-16.18 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.88377 GHz	-42.97 dBm	-17.97 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.35046 GHz	-40.91 dBm	-15.91 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.91101 GHz	-38.59 dBm	-13.59 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.84765 GHz	-38.01 dBm	-13.01 dB

Date: 5.JAN.2021 13:58:34

Middle Channel / 1RB1

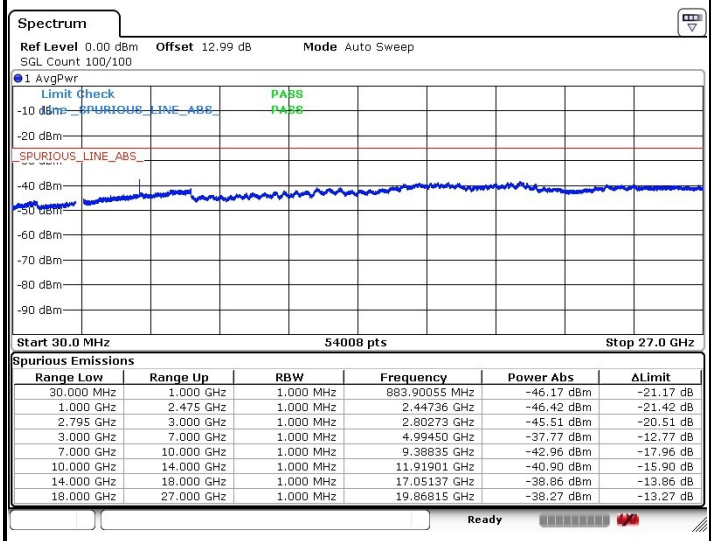


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.04098 MHz	-46.37 dBm	-21.37 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46505 GHz	-46.14 dBm	-21.14 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80694 GHz	-45.50 dBm	-20.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.15848 GHz	-41.07 dBm	-16.07 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89027 GHz	-43.06 dBm	-18.06 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84539 GHz	-40.91 dBm	-15.91 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.45032 GHz	-38.87 dBm	-13.87 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.82565 GHz	-37.94 dBm	-12.94 dB

Date: 5.JAN.2021 14:00:56

Highest Channel / 1RB1



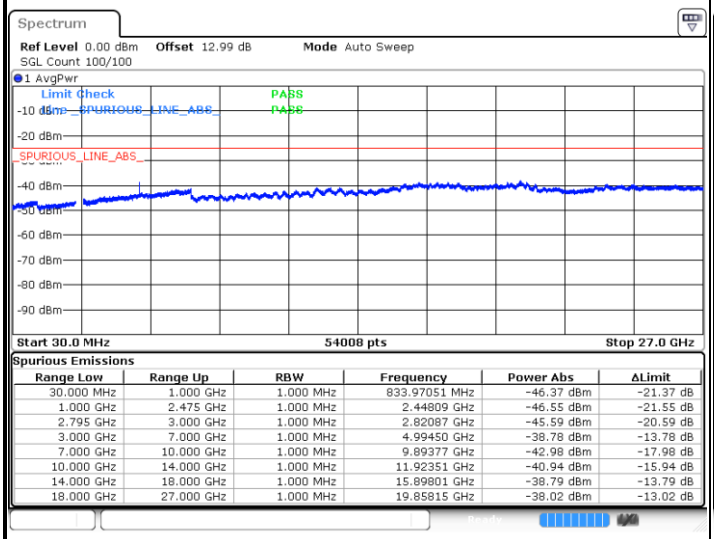
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	883.90055 MHz	-46.17 dBm	-21.17 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.44736 GHz	-46.42 dBm	-21.42 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80273 GHz	-45.51 dBm	-20.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99450 GHz	-37.77 dBm	-12.77 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.38835 GHz	-42.96 dBm	-17.96 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.91901 GHz	-40.90 dBm	-15.90 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.05137 GHz	-38.86 dBm	-13.86 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86815 GHz	-38.27 dBm	-13.27 dB

Date: 5.JAN.2021 14:02:33

FR1 n41 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

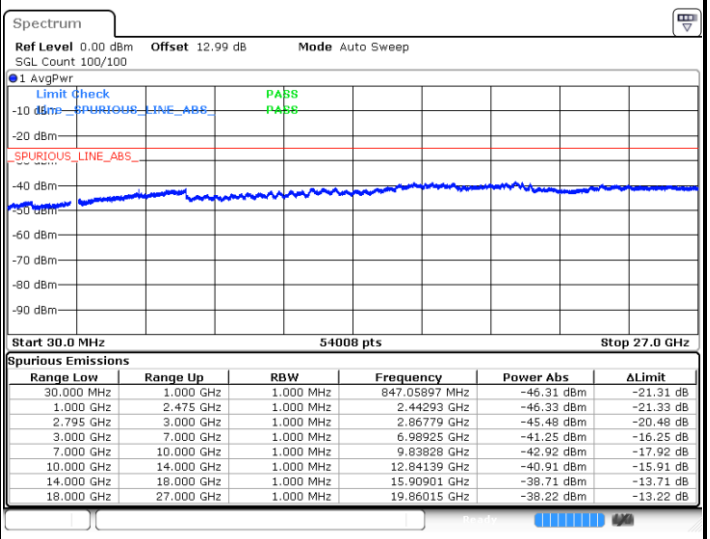


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	833.97051 MHz	-46.37 dBm	-21.37 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.44809 GHz	-46.55 dBm	-21.55 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.82087 GHz	-45.59 dBm	-20.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99450 GHz	-38.78 dBm	-13.78 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89377 GHz	-42.98 dBm	-17.98 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.92351 GHz	-40.94 dBm	-15.94 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.89801 GHz	-38.79 dBm	-13.79 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85815 GHz	-38.02 dBm	-13.02 dB

Date: 5.JAN.2021 11:29:39

Middle Channel / 1RB1

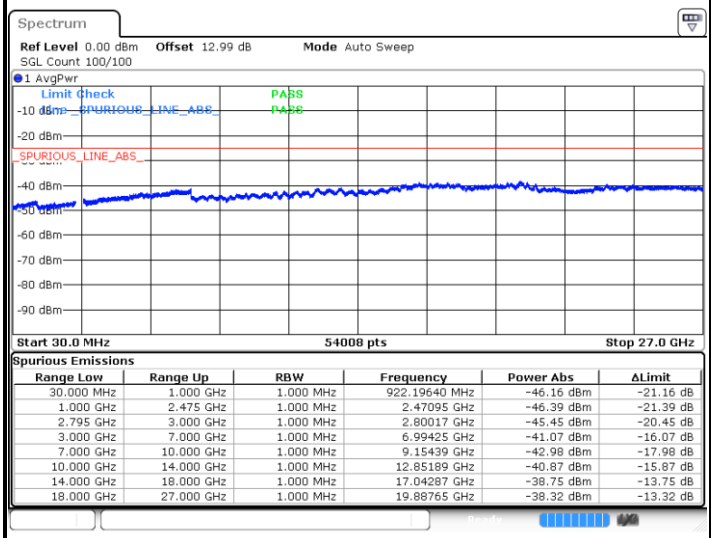


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	847.05897 MHz	-46.31 dBm	-21.31 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.44293 GHz	-46.33 dBm	-21.33 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.86779 GHz	-45.48 dBm	-20.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-41.25 dBm	-16.25 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.83828 GHz	-42.92 dBm	-17.92 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84139 GHz	-40.91 dBm	-15.91 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.90901 GHz	-38.71 dBm	-13.71 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86015 GHz	-38.22 dBm	-13.22 dB

Date: 5.JAN.2021 11:35:18

Highest Channel / 1RB1



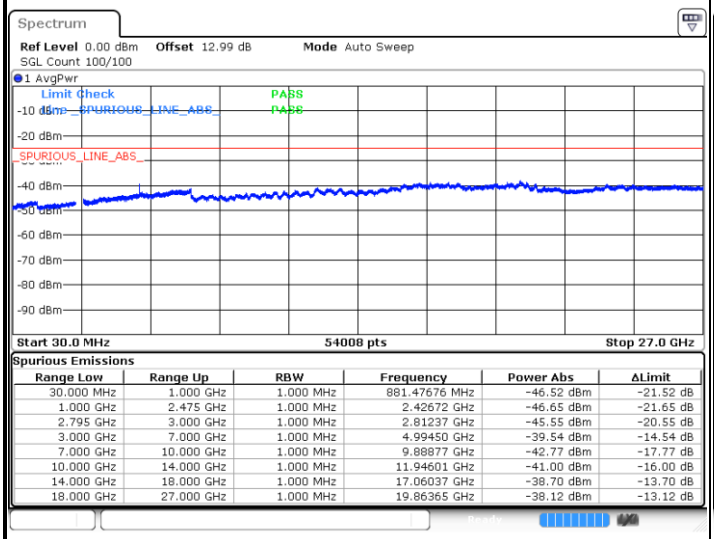
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	922.19640 MHz	-46.16 dBm	-21.16 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47095 GHz	-46.39 dBm	-21.39 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80017 GHz	-45.45 dBm	-20.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-41.07 dBm	-16.07 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.15439 GHz	-42.98 dBm	-17.98 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85189 GHz	-40.87 dBm	-15.87 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04287 GHz	-38.75 dBm	-13.75 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.88765 GHz	-38.32 dBm	-13.32 dB

Date: 5.JAN.2021 11:37:24

FR1 n41 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

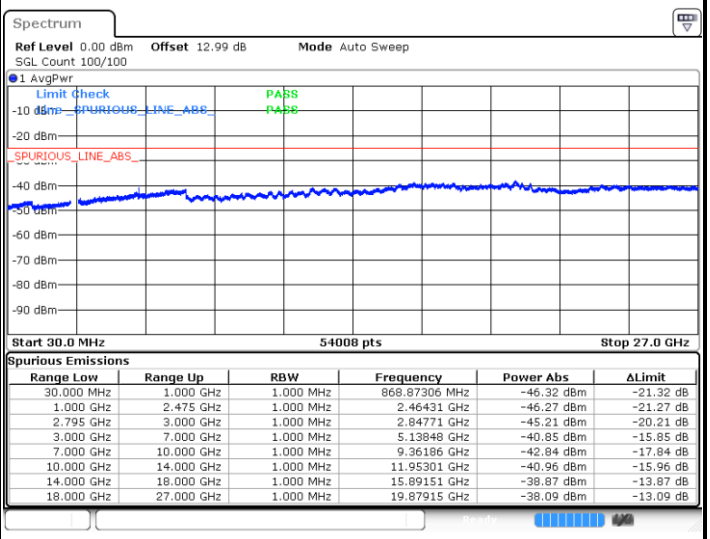


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	881.47676 MHz	-46.52 dBm	-21.52 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.42672 GHz	-46.65 dBm	-21.65 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.81237 GHz	-45.55 dBm	-20.55 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99450 GHz	-39.54 dBm	-14.54 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.88877 GHz	-42.77 dBm	-17.77 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.94601 GHz	-41.00 dBm	-16.00 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.06037 GHz	-38.70 dBm	-13.70 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86365 GHz	-38.12 dBm	-13.12 dB

Date: 5.JAN.2021 14:10:44

Middle Channel / 1RB1

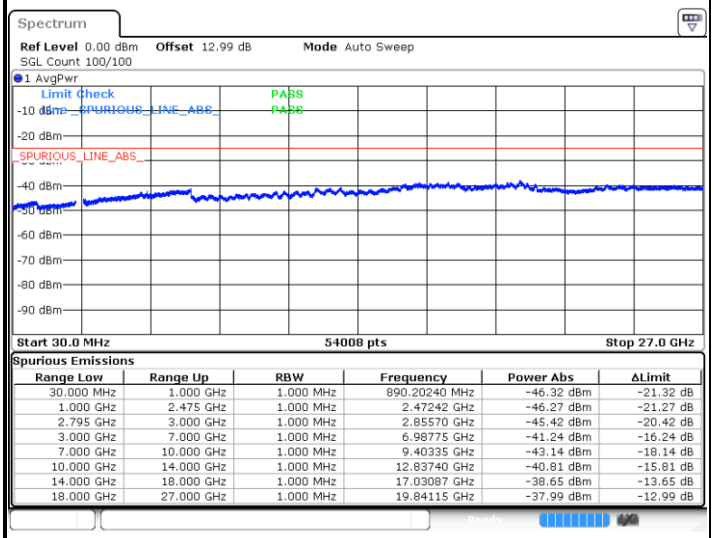


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	868.87306 MHz	-46.32 dBm	-21.32 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46431 GHz	-46.27 dBm	-21.27 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.84771 GHz	-45.21 dBm	-20.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.13848 GHz	-40.85 dBm	-15.85 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.36186 GHz	-42.84 dBm	-17.84 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.95301 GHz	-40.96 dBm	-15.96 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.89151 GHz	-38.87 dBm	-13.87 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.87915 GHz	-38.09 dBm	-13.09 dB

Date: 5.JAN.2021 14:13:04

Highest Channel / 1RB1



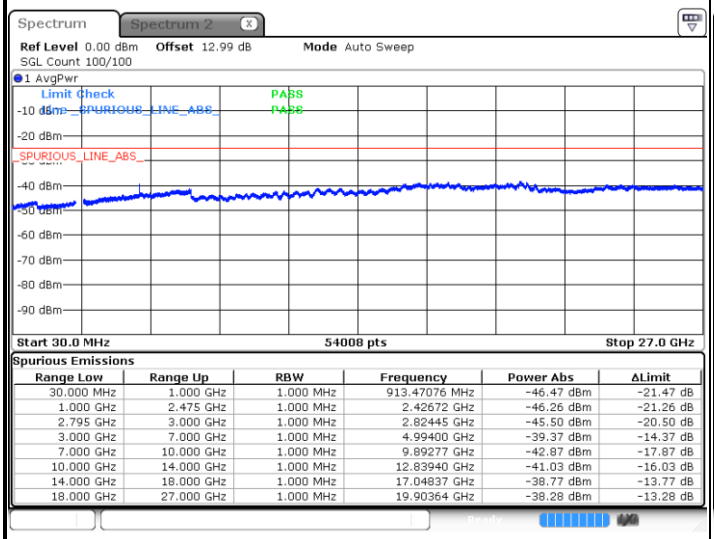
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	890.20240 MHz	-46.32 dBm	-21.32 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47242 GHz	-46.27 dBm	-21.27 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.85570 GHz	-45.42 dBm	-20.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-41.24 dBm	-16.24 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.40335 GHz	-43.14 dBm	-18.14 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.83740 GHz	-40.81 dBm	-15.81 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03087 GHz	-38.65 dBm	-13.65 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.84115 GHz	-37.99 dBm	-12.99 dB

Date: 5.JAN.2021 14:14:48

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

Lowest Channel / 1RB1

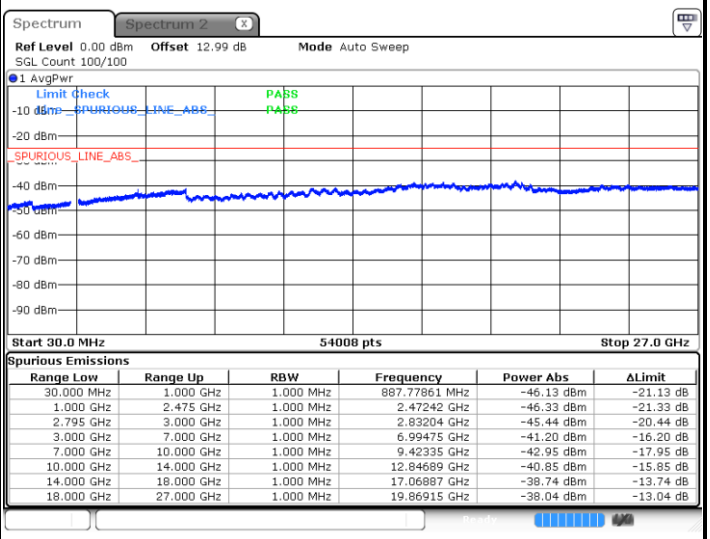


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	913.47076 MHz	-46.47 dBm	-21.47 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.42672 GHz	-46.26 dBm	-21.26 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.82445 GHz	-45.50 dBm	-20.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99400 GHz	-39.37 dBm	-14.37 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89277 GHz	-42.87 dBm	-17.87 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.83940 GHz	-41.03 dBm	-16.03 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04837 GHz	-38.77 dBm	-13.77 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.90354 GHz	-38.28 dBm	-13.28 dB

Date: 5.JAN.2021 14:43:52

Middle Channel / 1RB1

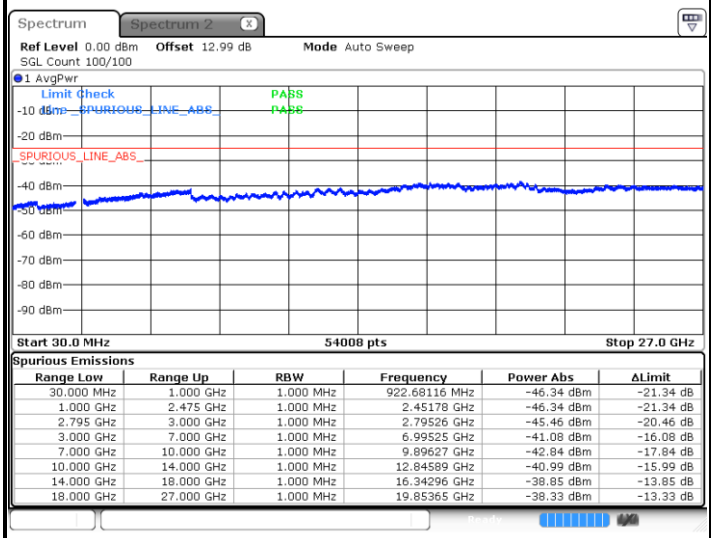


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	887.77861 MHz	-46.13 dBm	-21.13 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47242 GHz	-46.33 dBm	-21.33 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.83204 GHz	-45.44 dBm	-20.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99475 GHz	-41.20 dBm	-16.20 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.42335 GHz	-42.95 dBm	-17.95 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84689 GHz	-40.85 dBm	-15.85 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.06887 GHz	-38.74 dBm	-13.74 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86915 GHz	-38.04 dBm	-13.04 dB

Date: 5.JAN.2021 14:45:52

Highest Channel / 1RB1



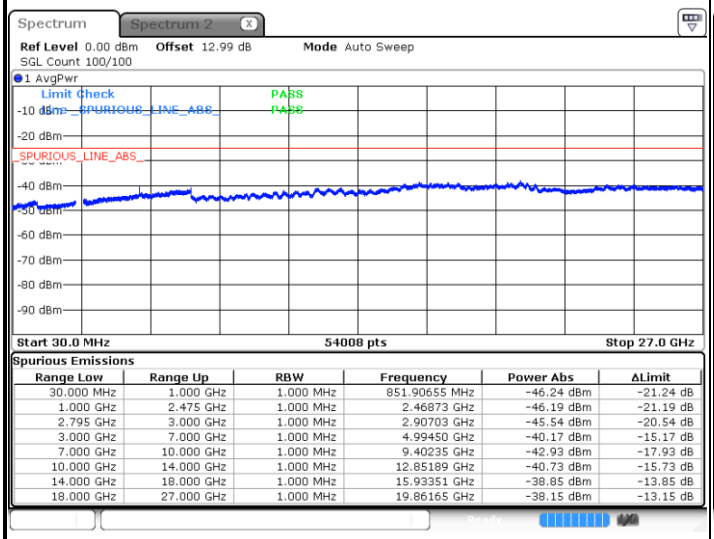
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	922.68116 MHz	-46.34 dBm	-21.34 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45178 GHz	-46.34 dBm	-21.34 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.79526 GHz	-45.46 dBm	-20.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-41.08 dBm	-16.08 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89627 GHz	-42.84 dBm	-17.84 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84589 GHz	-40.99 dBm	-15.99 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.34296 GHz	-38.85 dBm	-13.85 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85365 GHz	-38.33 dBm	-13.33 dB

Date: 5.JAN.2021 14:48:21

FR1 n41 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

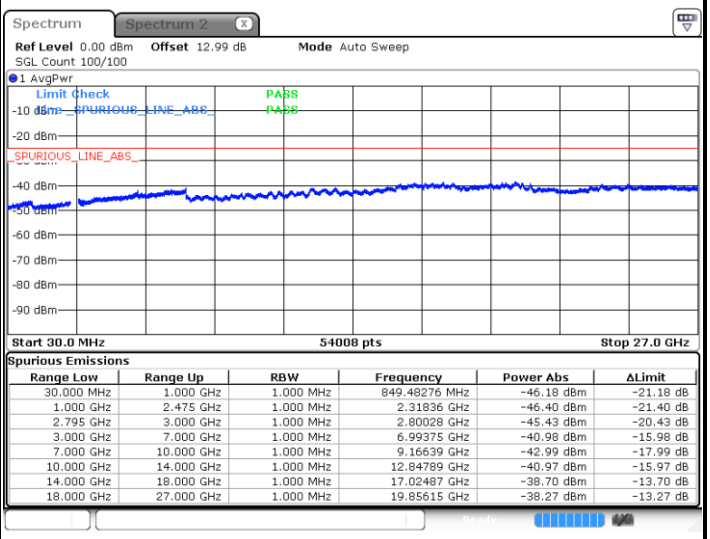


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	851.90655 MHz	-46.24 dBm	-21.24 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46873 GHz	-46.19 dBm	-21.19 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.90703 GHz	-45.54 dBm	-20.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99450 GHz	-40.17 dBm	-15.17 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.40235 GHz	-42.93 dBm	-17.93 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85189 GHz	-40.73 dBm	-15.73 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.93351 GHz	-38.85 dBm	-13.85 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.86165 GHz	-38.15 dBm	-13.15 dB

Date: 5.JAN.2021 16:03:00

Middle Channel / 1RB1

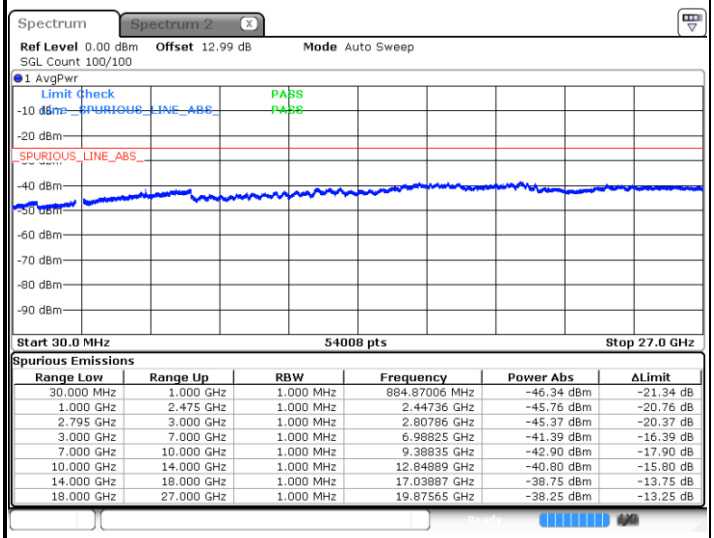


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	849.48276 MHz	-46.18 dBm	-21.18 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.31836 GHz	-46.40 dBm	-21.40 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80028 GHz	-45.43 dBm	-20.43 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99375 GHz	-40.98 dBm	-15.98 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.16639 GHz	-42.99 dBm	-17.99 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84789 GHz	-40.97 dBm	-15.97 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.02487 GHz	-38.70 dBm	-13.70 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85615 GHz	-38.27 dBm	-13.27 dB

Date: 5.JAN.2021 16:05:15

Highest Channel / 1RB1



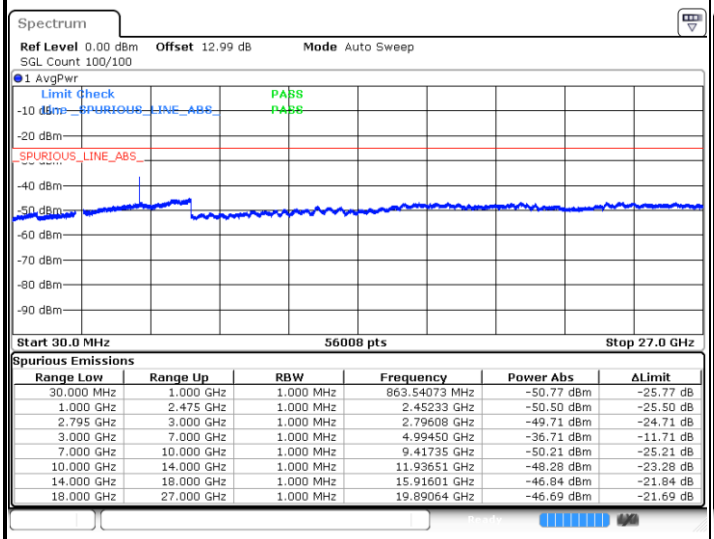
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	884.87006 MHz	-46.34 dBm	-21.34 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.44736 GHz	-45.76 dBm	-20.76 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80786 GHz	-45.37 dBm	-20.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98825 GHz	-41.39 dBm	-16.39 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.38835 GHz	-42.90 dBm	-17.90 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84889 GHz	-40.80 dBm	-15.80 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03887 GHz	-38.75 dBm	-13.75 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.87565 GHz	-38.25 dBm	-13.25 dB

Date: 5.JAN.2021 16:09:02

FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

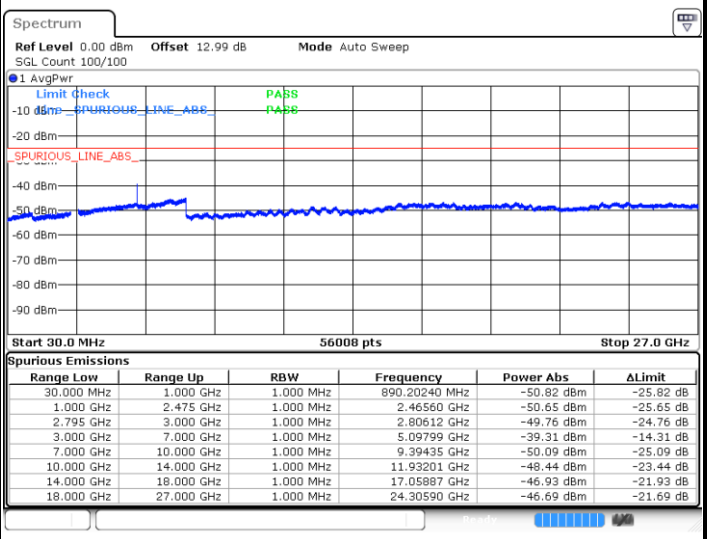


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	863.54073 MHz	-50.77 dBm	-25.77 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45233 GHz	-50.50 dBm	-25.50 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.79608 GHz	-49.71 dBm	-24.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99450 GHz	-36.71 dBm	-11.71 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.41735 GHz	-50.21 dBm	-25.21 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.93651 GHz	-48.28 dBm	-23.28 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.91601 GHz	-46.84 dBm	-21.84 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.89064 GHz	-46.69 dBm	-21.69 dB

Date: 6.JAN.2021 11:43:33

Middle Channel / 1RB1

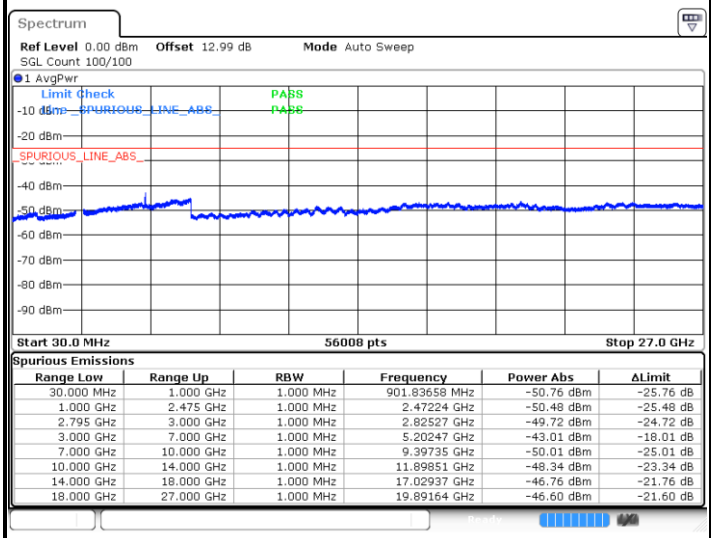


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	890.20240 MHz	-50.82 dBm	-25.82 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46560 GHz	-50.65 dBm	-25.65 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.80612 GHz	-49.76 dBm	-24.76 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.09799 GHz	-39.31 dBm	-14.31 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.39435 GHz	-50.09 dBm	-25.09 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.93201 GHz	-48.44 dBm	-23.44 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.05887 GHz	-46.93 dBm	-21.93 dB
18.000 GHz	27.000 GHz	1.000 MHz	24.30590 GHz	-46.69 dBm	-21.69 dB

Date: 6.JAN.2021 11:45:00

Highest Channel / 1RB1

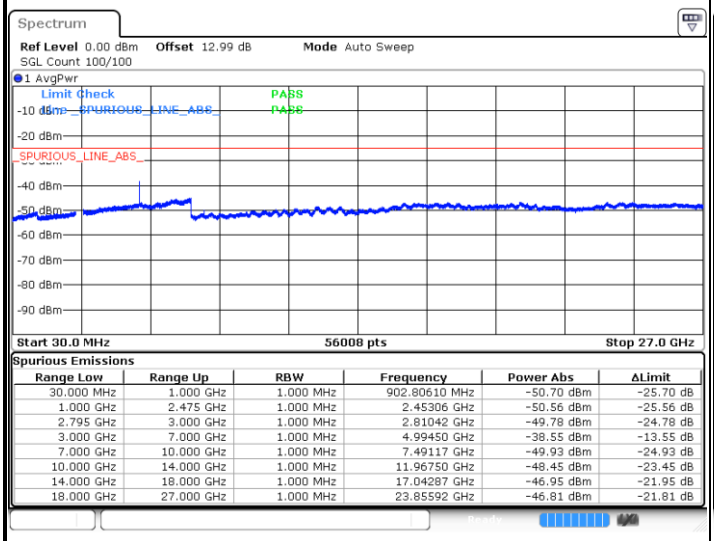


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	901.83658 MHz	-50.76 dBm	-25.76 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47224 GHz	-50.48 dBm	-25.48 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.82527 GHz	-49.72 dBm	-24.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.20247 GHz	-43.01 dBm	-18.01 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.39735 GHz	-50.01 dBm	-25.01 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.89851 GHz	-48.34 dBm	-23.34 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.02937 GHz	-46.76 dBm	-21.76 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.89164 GHz	-46.60 dBm	-21.60 dB

Date: 6.JAN.2021 11:46:51

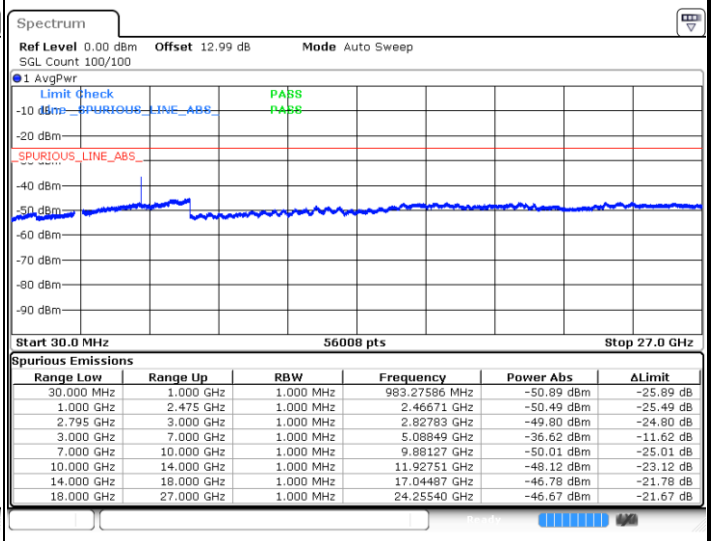
FR1 n41 / 100MHz / DFT-S OFDM / QPSK	
Lowest Channel / 1RB1	**Middle Channel / 1RB1**
Highest Channel / 1RB1	



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	902.80610 MHz	-50.70 dBm	-25.70 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45306 GHz	-50.56 dBm	-25.56 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.81042 GHz	-49.78 dBm	-24.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.99450 GHz	-38.55 dBm	-13.55 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.49117 GHz	-49.93 dBm	-24.93 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.96750 GHz	-48.45 dBm	-23.45 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04287 GHz	-46.95 dBm	-21.95 dB
18.000 GHz	27.000 GHz	1.000 MHz	23.85592 GHz	-46.81 dBm	-21.81 dB

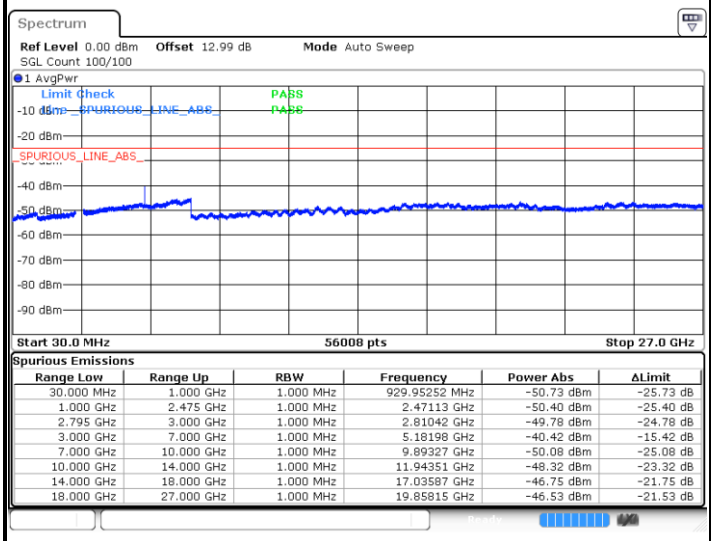
Date: 6.JAN.2021 13:25:19



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.27586 MHz	-50.89 dBm	-25.89 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46671 GHz	-50.49 dBm	-25.49 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.82783 GHz	-49.80 dBm	-24.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.08849 GHz	-36.62 dBm	-11.62 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.88127 GHz	-50.01 dBm	-25.01 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.92751 GHz	-48.12 dBm	-23.12 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04487 GHz	-46.78 dBm	-21.78 dB
18.000 GHz	27.000 GHz	1.000 MHz	24.25540 GHz	-46.67 dBm	-21.67 dB

Date: 6.JAN.2021 13:37:18



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	929.95252 MHz	-50.73 dBm	-25.73 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47113 GHz	-50.40 dBm	-25.40 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.81042 GHz	-49.78 dBm	-24.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.18198 GHz	-40.42 dBm	-15.42 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89327 GHz	-50.08 dBm	-25.08 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.94351 GHz	-48.32 dBm	-23.32 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03587 GHz	-46.75 dBm	-21.75 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.85815 GHz	-46.53 dBm	-21.53 dB

Date: 6.JAN.2021 13:26:46

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n41 Ant.3 for PA

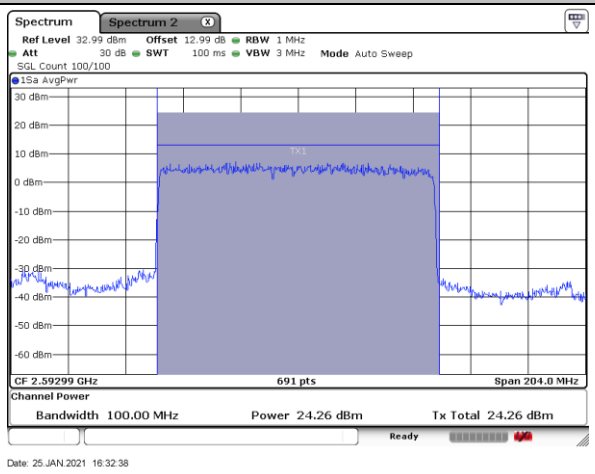
Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.41	5.53	5.22	5.67	PASS
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	4.72				PASS

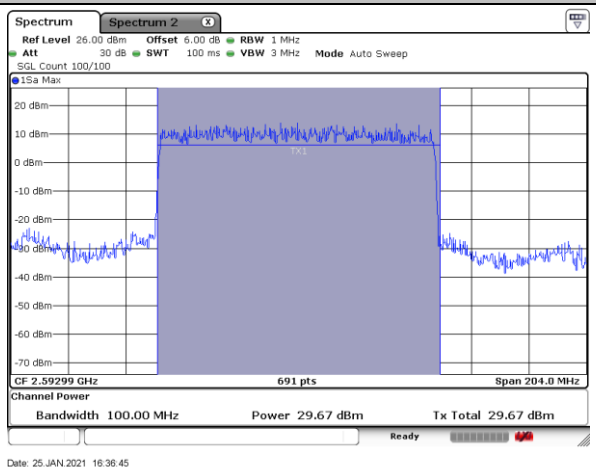
Note：PAR=Peak-Average

FR1 n41 / 100MHz / DFT-S OFDM

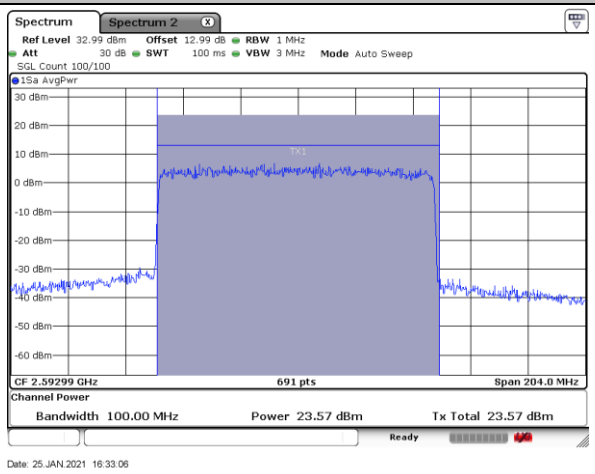
BPSK-A



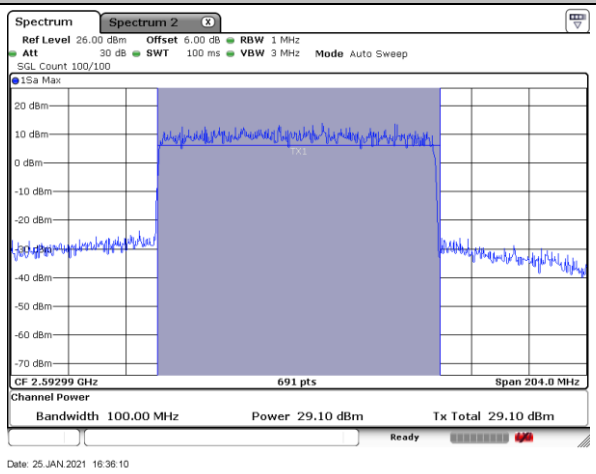
BPSK-P

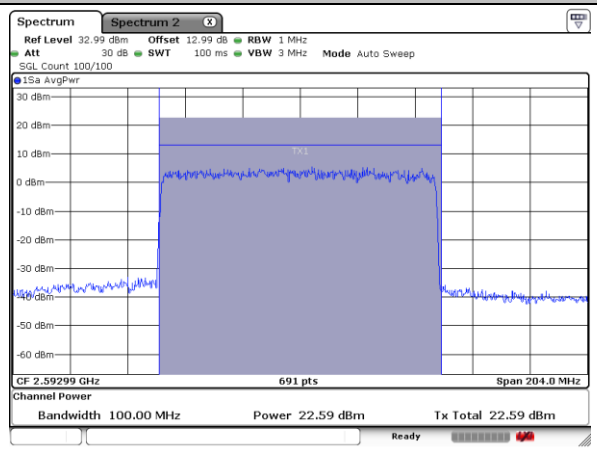
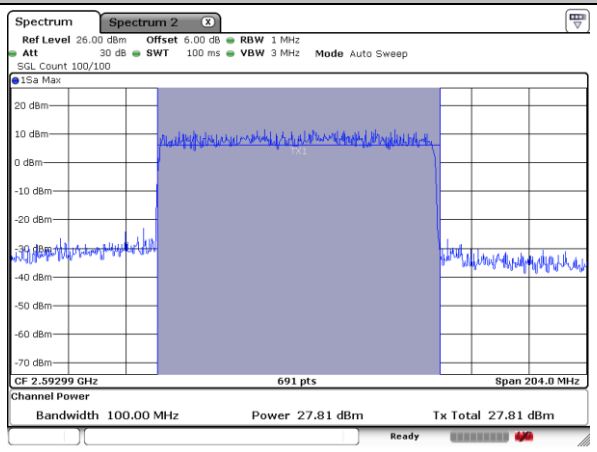
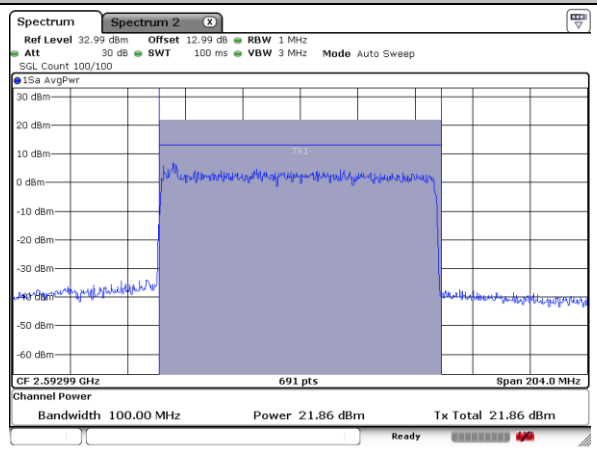
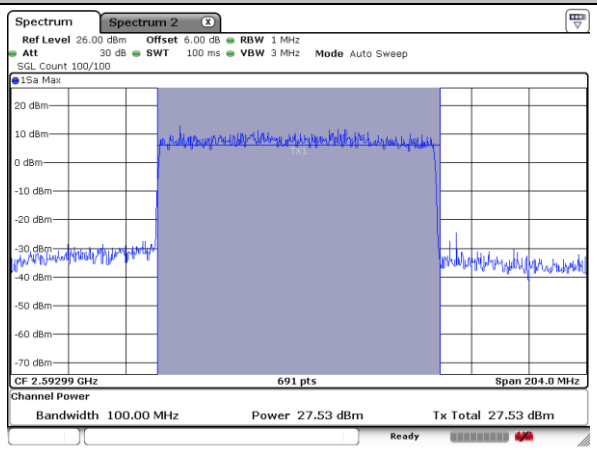
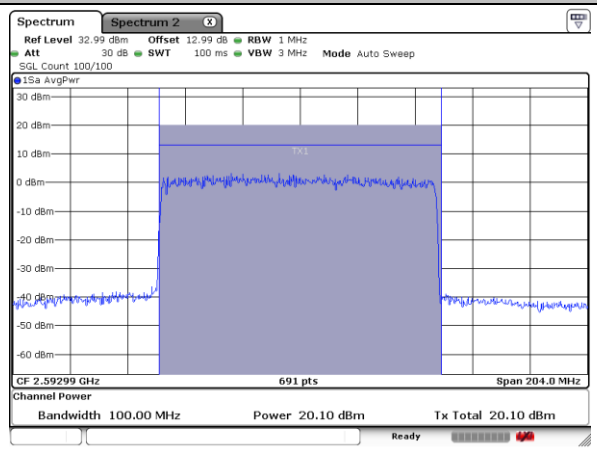
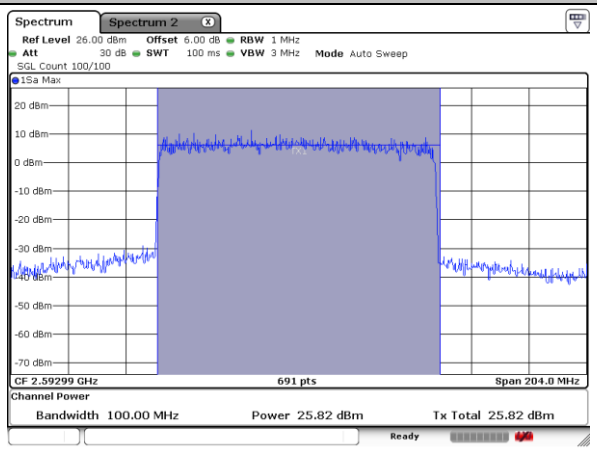


QPSK-A



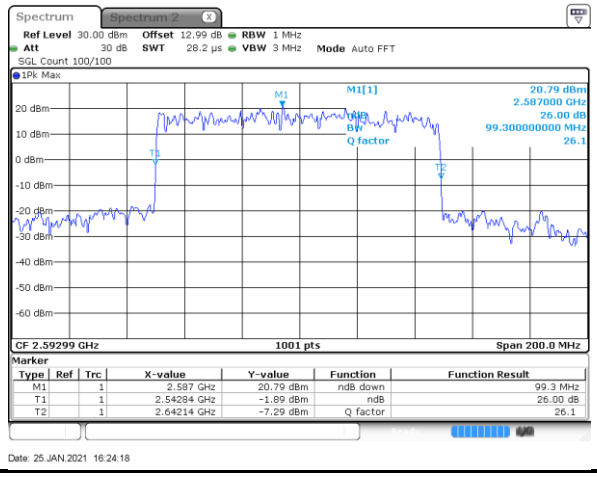
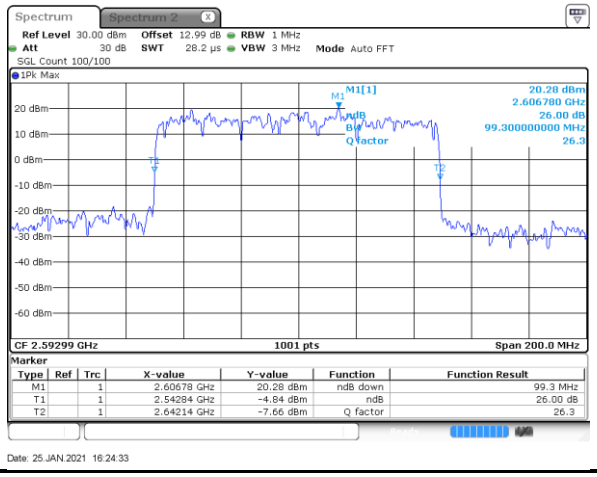
QPSK-P



16QAM-A	16QAM-P
	
64QAM-A	64QAM-P
	
256QAM-A	256QAM-P
	

26dB Bandwidth

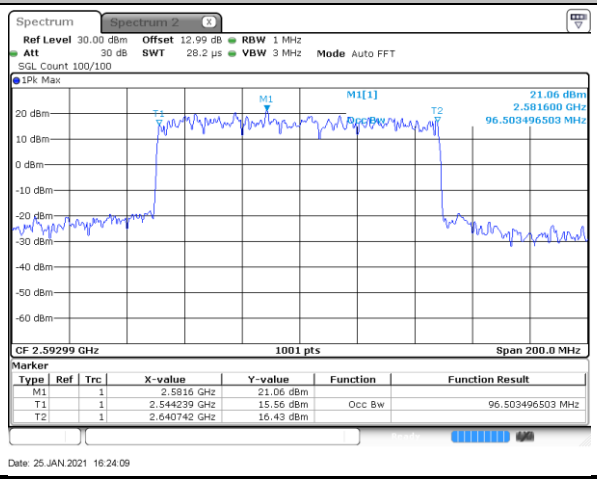
Mode	FR1 n41: 26dB BW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	99.3	99.3

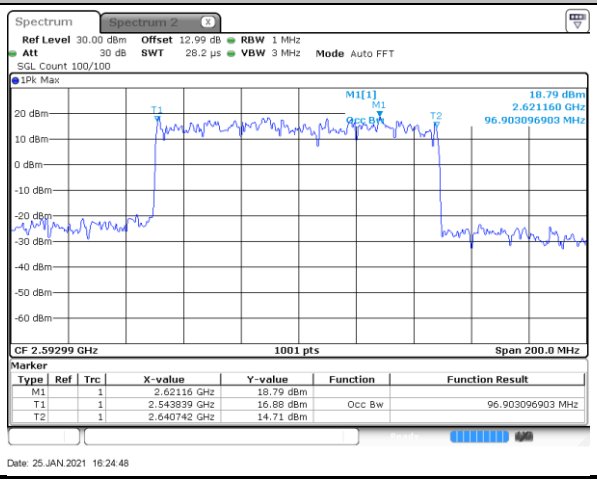
FR1 n41 / 100MHz / CP OFDM	
QPSK	16QAM
	

Occupied Bandwidth

Mode	FR1 n41 : 99%OBW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	96.50	96.90

FR1 n41 / 100MHz / CP OFDM	
QPSK	16QAM

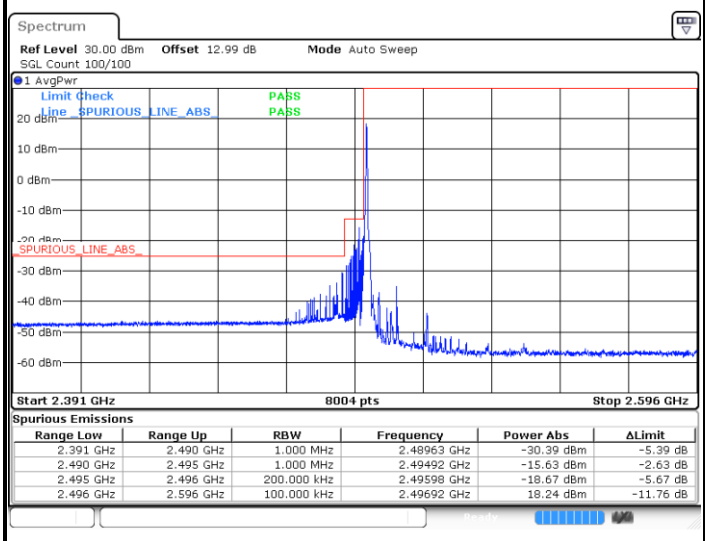




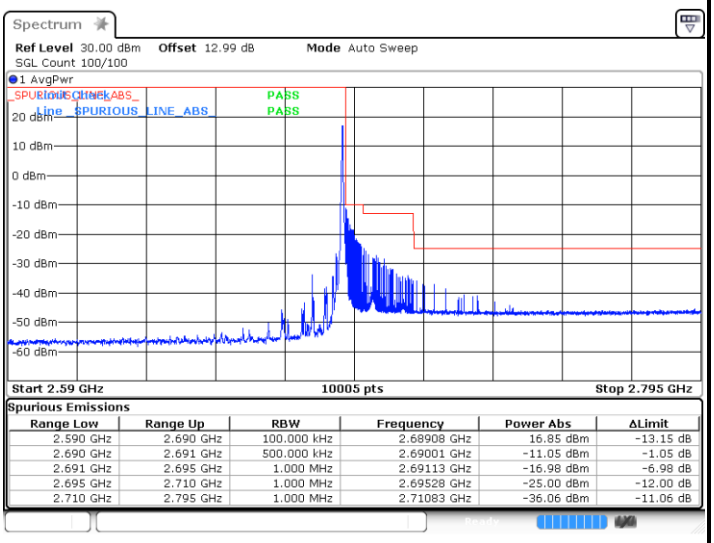
Conducted Band Edge

FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK

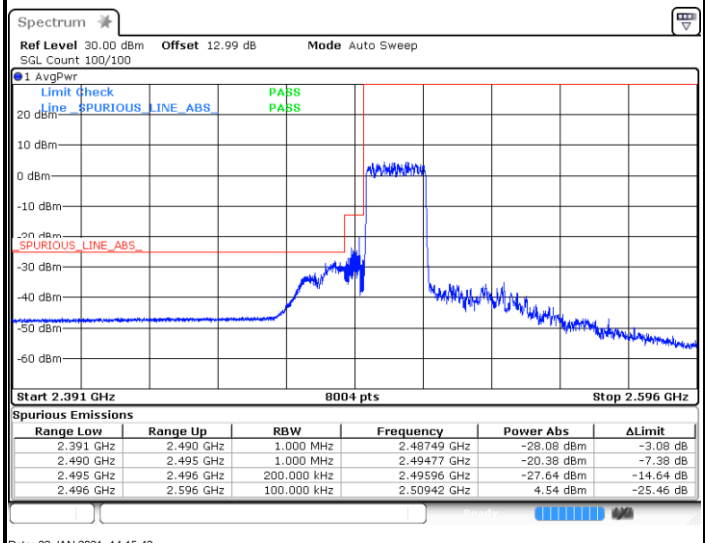
Lowest Band Edge / 1RB0



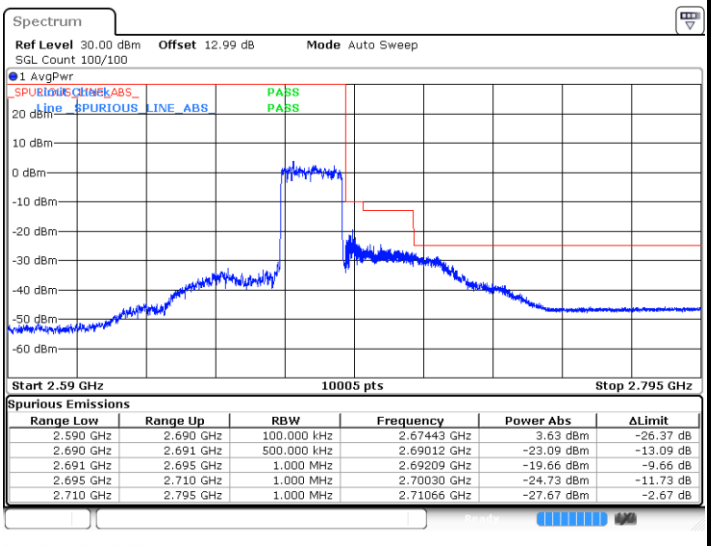
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

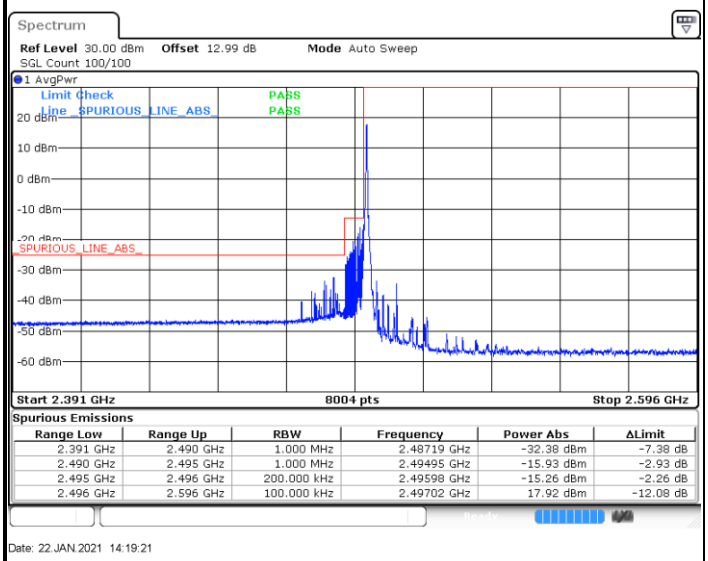


Highest Band Edge / Full RB



FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48719 GHz	-32.38 dBm	-7.38 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49495 GHz	-15.93 dBm	-2.93 dB
2.495 GHz	2.496 GHz	200.000 kHz	2.49598 GHz	-15.26 dBm	-2.26 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.49702 GHz	17.92 dBm	-12.08 dB

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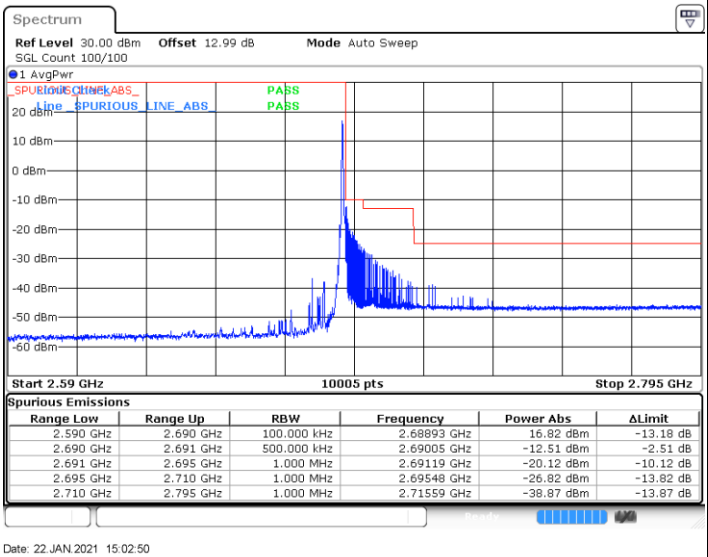
Highest Band Edge / 1RBmax

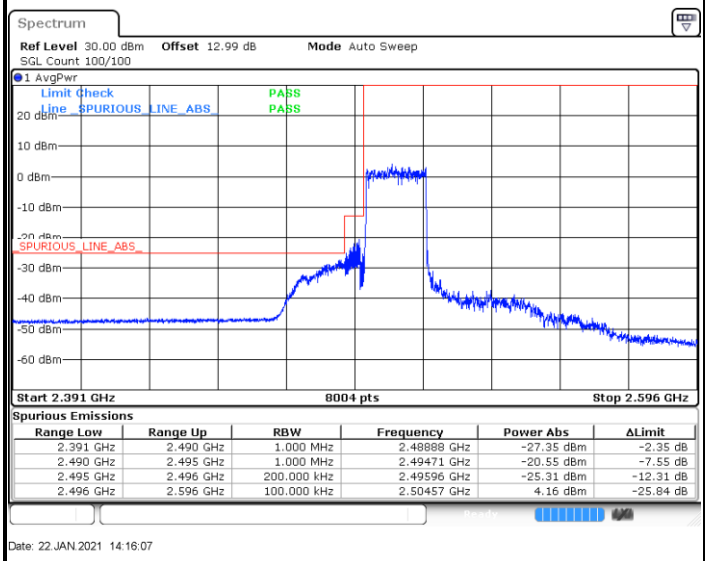


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68893 GHz	16.82 dBm	-13.18 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69005 GHz	-12.51 dBm	-2.51 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69119 GHz	-20.12 dBm	-10.12 dB
2.695 GHz	2.710 GHz	1.000 MHz	2.69548 GHz	-26.82 dBm	-13.82 dB
2.710 GHz	2.795 GHz	1.000 MHz	2.71559 GHz	-38.87 dBm	-13.87 dB

Date: 22.JAN.2021 15:02:50

Lowest Band Edge / Full RB

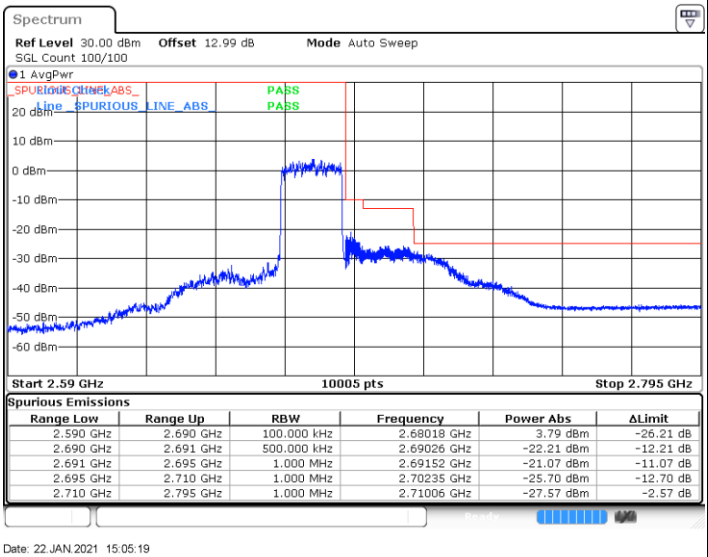


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48888 GHz	-27.35 dBm	-2.35 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49471 GHz	-20.55 dBm	-7.55 dB
2.495 GHz	2.496 GHz	200.000 kHz	2.49596 GHz	-25.31 dBm	-12.31 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.50457 GHz	4.16 dBm	-25.84 dB

Date: 22.JAN.2021 14:16:07

Highest Band Edge / Full RB



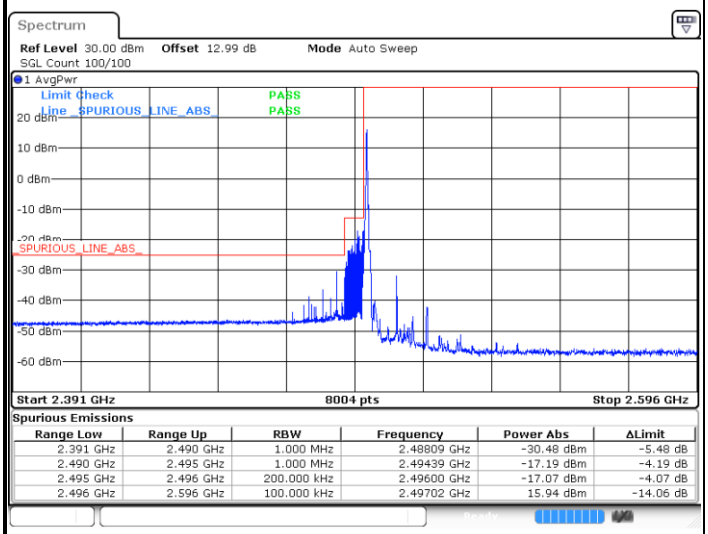
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68018 GHz	3.79 dBm	-26.21 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69026 GHz	-22.21 dBm	-12.21 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69152 GHz	-21.07 dBm	-11.07 dB
2.695 GHz	2.710 GHz	1.000 MHz	2.70235 GHz	-25.70 dBm	-12.70 dB
2.710 GHz	2.795 GHz	1.000 MHz	2.71006 GHz	-27.57 dBm	-2.57 dB

Date: 22.JAN.2021 15:05:19

FR1 n41 / 20MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

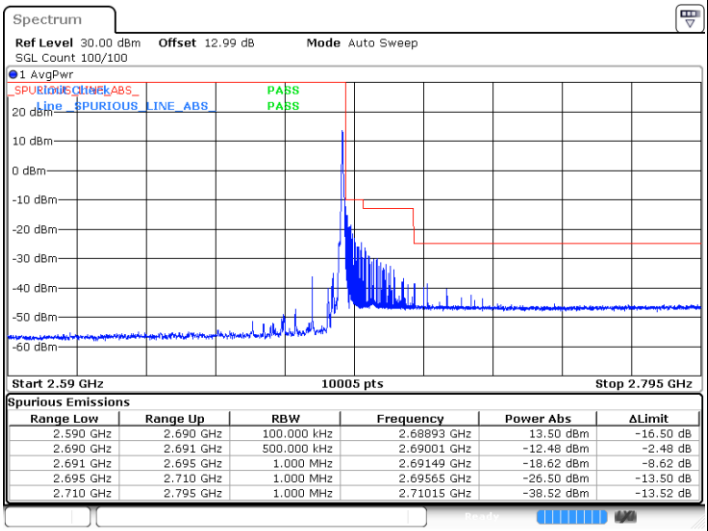


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48809 GHz	-30.48 dBm	-5.48 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49439 GHz	-17.19 dBm	-4.19 dB
2.495 GHz	2.496 GHz	200.000 kHz	2.49600 GHz	-17.07 dBm	-4.07 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.49702 GHz	15.94 dBm	-14.06 dB

Date: 22.JAN.2021 14:18:54

Highest Band Edge / 1RBmax

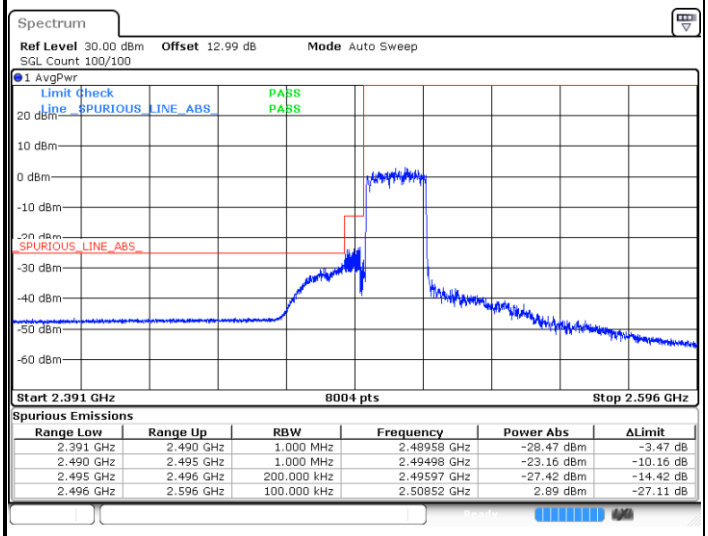


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68893 GHz	13.50 dBm	-16.50 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69001 GHz	-12.48 dBm	-2.48 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69149 GHz	-18.62 dBm	-8.62 dB
2.695 GHz	2.710 GHz	1.000 MHz	2.69565 GHz	-26.50 dBm	-13.50 dB
2.710 GHz	2.795 GHz	1.000 MHz	2.71015 GHz	-38.52 dBm	-13.52 dB

Date: 22.JAN.2021 15:03:12

Lowest Band Edge / Full RB

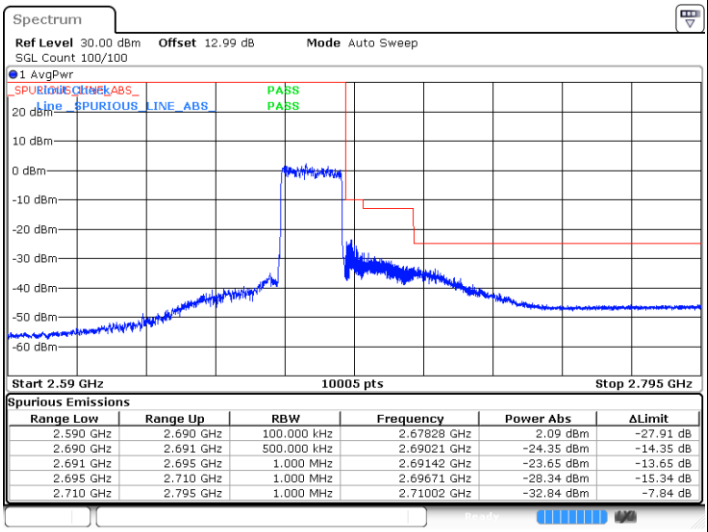


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48958 GHz	-28.47 dBm	-3.47 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49498 GHz	-23.16 dBm	-10.16 dB
2.495 GHz	2.496 GHz	200.000 kHz	2.49597 GHz	-27.42 dBm	-14.42 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.50852 GHz	2.89 dBm	-27.11 dB

Date: 22.JAN.2021 14:16:27

Highest Band Edge / Full RB



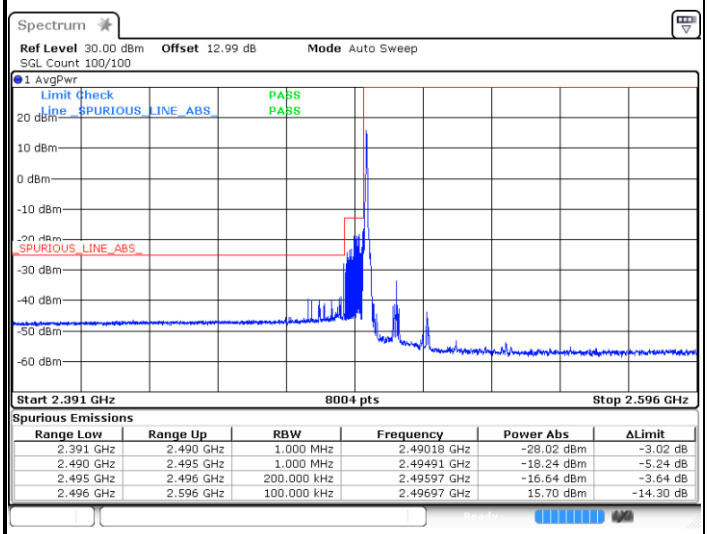
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.67828 GHz	2.09 dBm	-27.91 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69021 GHz	-24.35 dBm	-14.35 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69142 GHz	-23.65 dBm	-13.65 dB
2.695 GHz	2.710 GHz	1.000 MHz	2.69671 GHz	-28.34 dBm	-15.34 dB
2.710 GHz	2.795 GHz	1.000 MHz	2.71002 GHz	-32.84 dBm	-7.84 dB

Date: 22.JAN.2021 15:04:59

FR1 n41 / 20MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

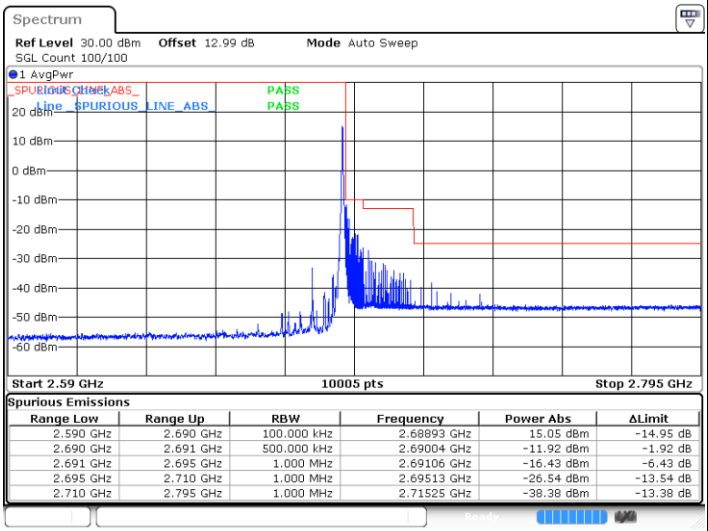


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.49018 GHz	-28.02 dBm	-3.02 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49491 GHz	-18.24 dBm	-5.24 dB
2.495 GHz	2.496 GHz	200.000 kHz	2.49597 GHz	-16.64 dBm	-3.64 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.49697 GHz	15.70 dBm	-14.30 dB

Date: 22.JAN.2021 14:17:54

Highest Band Edge / 1RB24

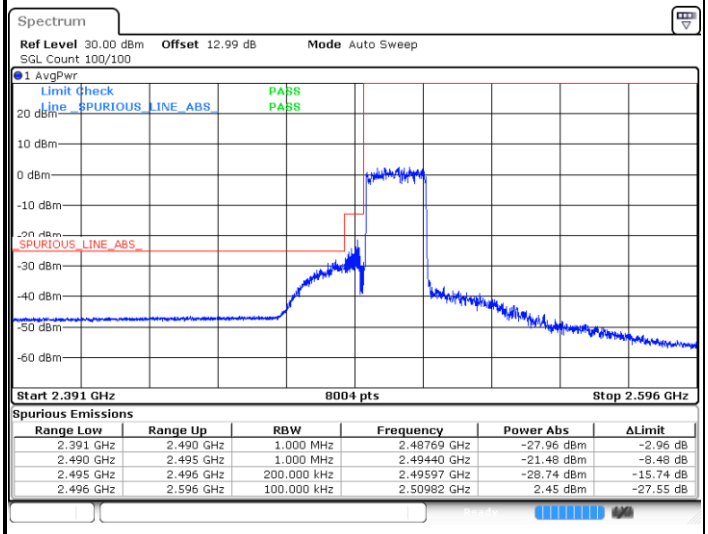


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68893 GHz	15.05 dBm	-14.95 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69004 GHz	-11.92 dBm	-1.92 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69106 GHz	-16.43 dBm	-6.43 dB
2.695 GHz	2.710 GHz	1.000 MHz	2.69513 GHz	-26.54 dBm	-13.54 dB
2.710 GHz	2.795 GHz	1.000 MHz	2.71525 GHz	-38.38 dBm	-13.38 dB

Date: 22.JAN.2021 15:03:33

Lowest Band Edge / Full RB

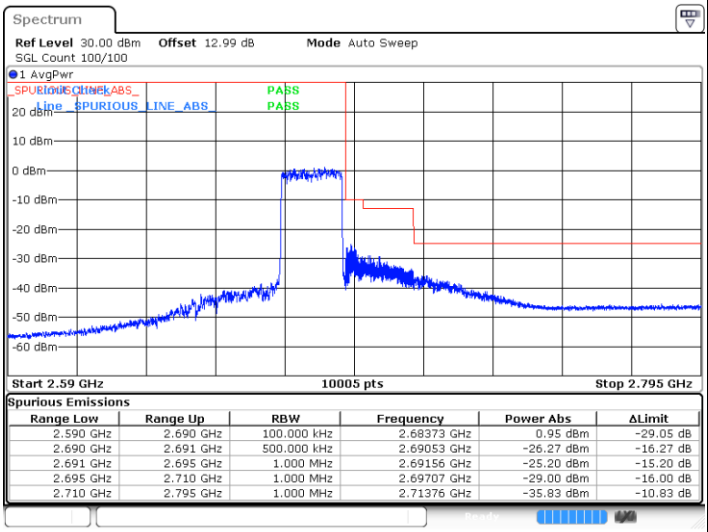


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48769 GHz	-27.96 dBm	-2.96 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49440 GHz	-21.48 dBm	-8.48 dB
2.495 GHz	2.496 GHz	200.000 kHz	2.49597 GHz	-28.74 dBm	-15.74 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.50982 GHz	2.45 dBm	-27.55 dB

Date: 22.JAN.2021 14:16:49

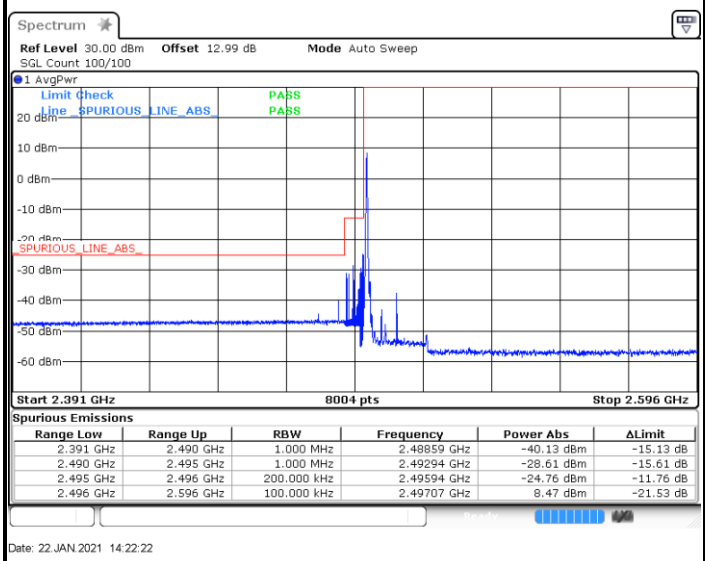
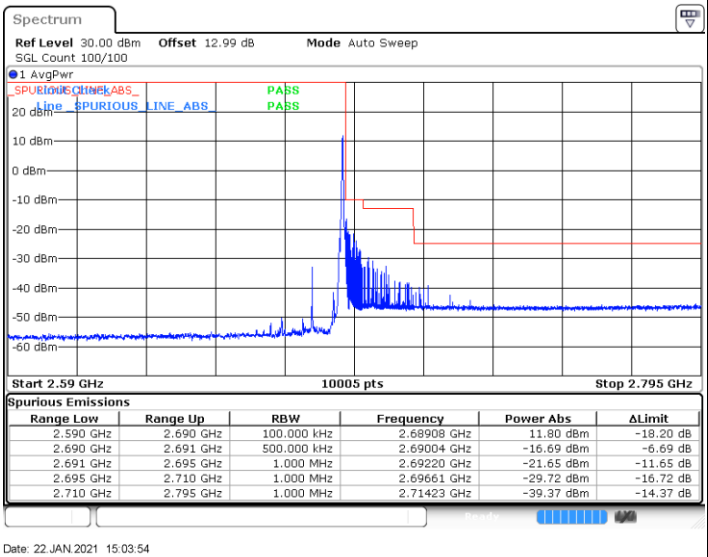
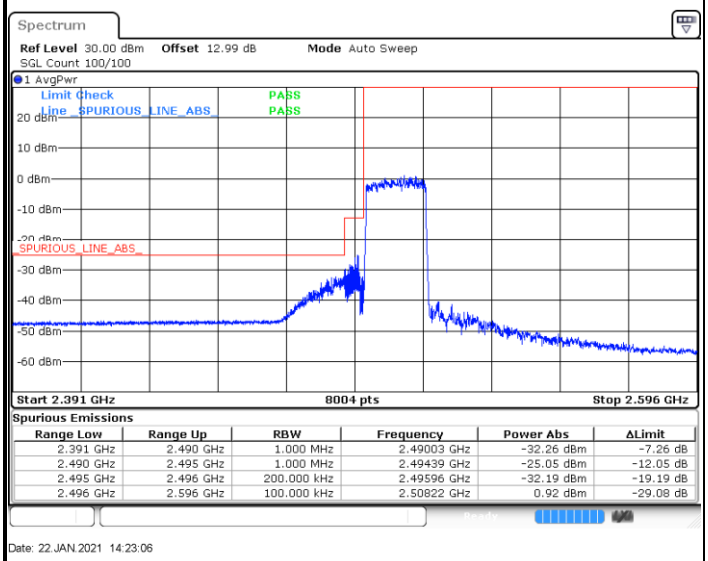
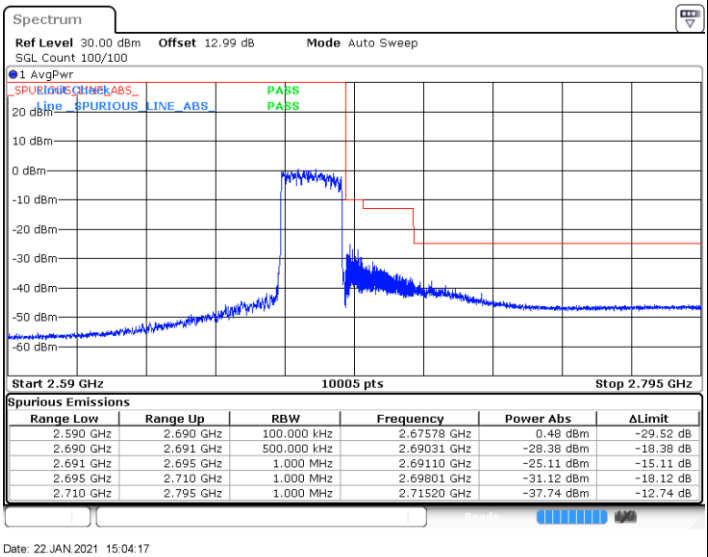
Highest Band Edge / Full RB



Spurious Emissions

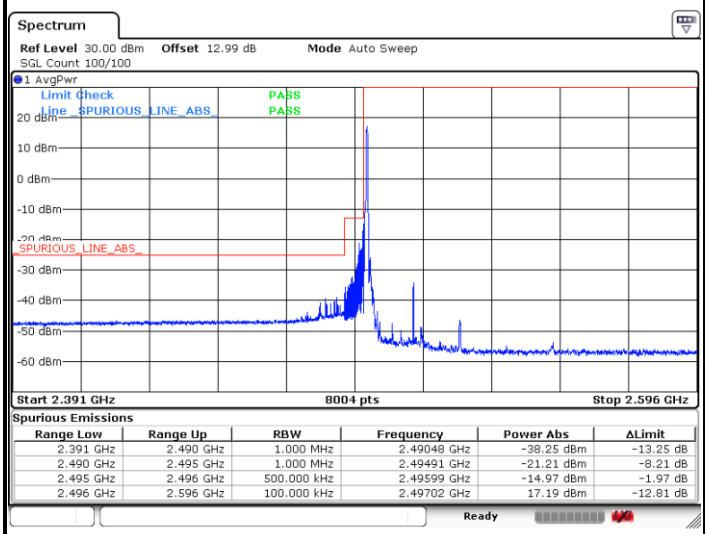
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68373 GHz	0.95 dBm	-29.05 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69053 GHz	-26.27 dBm	-16.27 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69156 GHz	-25.20 dBm	-15.20 dB
2.695 GHz	2.710 GHz	1.000 MHz	2.69707 GHz	-29.00 dBm	-16.00 dB
2.710 GHz	2.795 GHz	1.000 MHz	2.71376 GHz	-35.83 dBm	-10.83 dB

Date: 22.JAN.2021 15:04:38

FR1 n41 / 20MHz / DFT-S OFDM / 256Q	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB24**
	
Date: 22.JAN.2021 14:22:22	Date: 22.JAN.2021 15:03:54
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
Date: 22.JAN.2021 14:23:06	Date: 22.JAN.2021 15:04:17

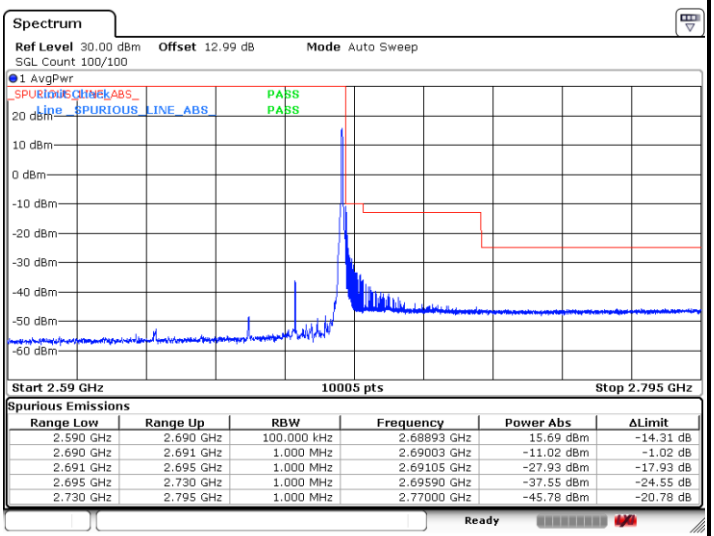
FR1 n41 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0



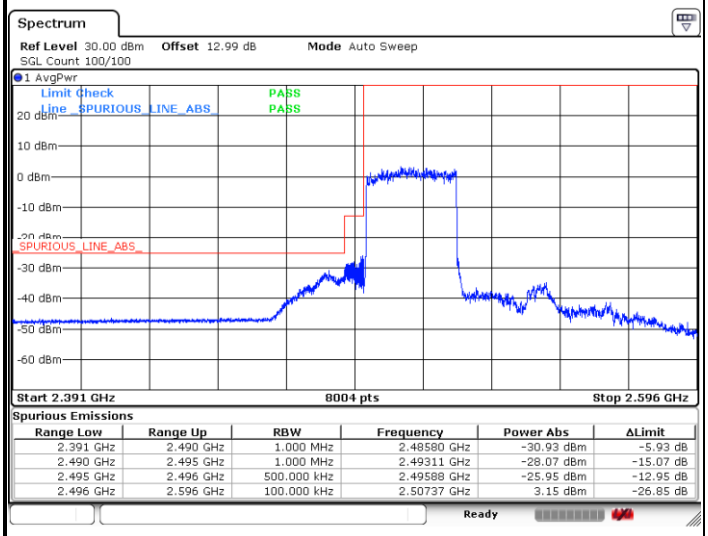
Date: 22.JAN.2021 15:14:15

Highest Band Edge / 1RBmax



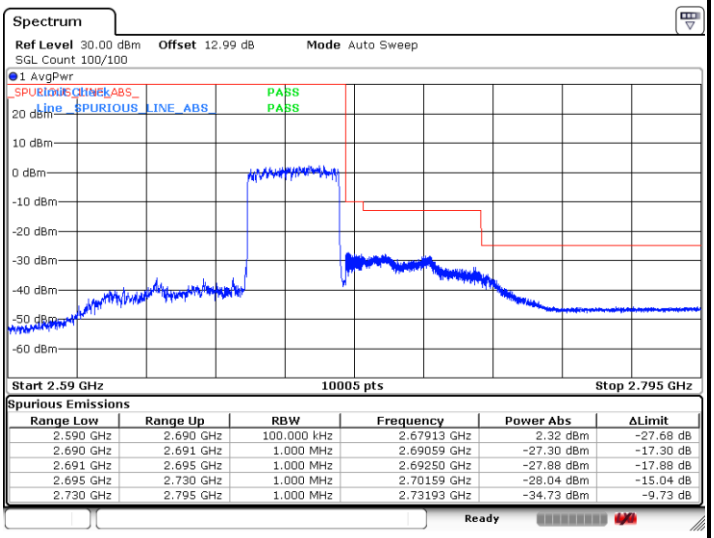
Date: 22.JAN.2021 15:25:26

Lowest Band Edge / Full RB



Date: 22.JAN.2021 15:11:09

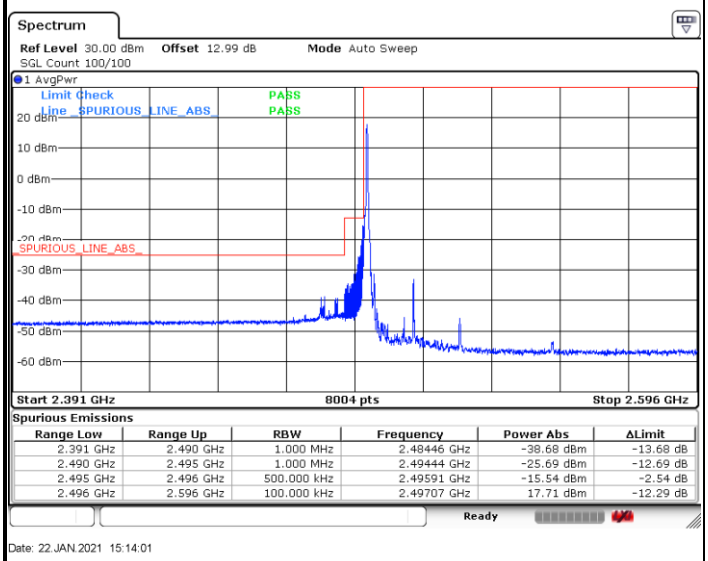
Highest Band Edge / Full RB



Date: 22.JAN.2021 15:25:48

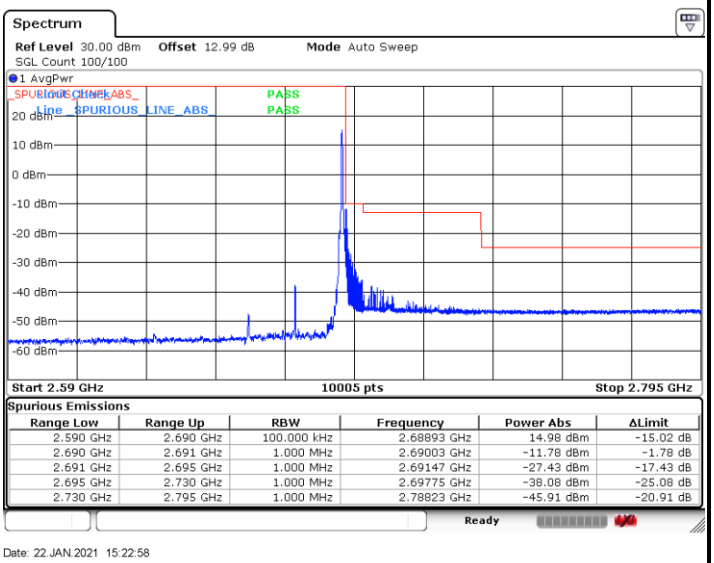
FR1 n41 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



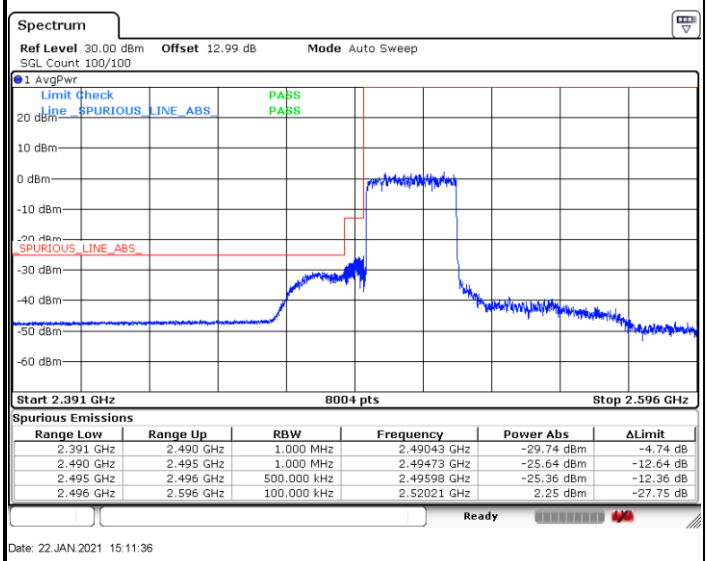
Date: 22.JAN.2021 15:14:01

Highest Band Edge / 1RBmax



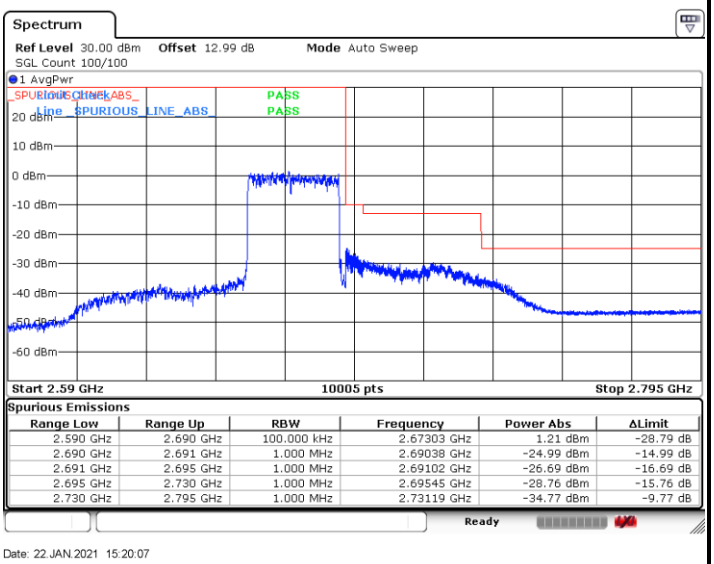
Date: 22.JAN.2021 15:22:58

Lowest Band Edge / Full RB



Date: 22.JAN.2021 15:11:36

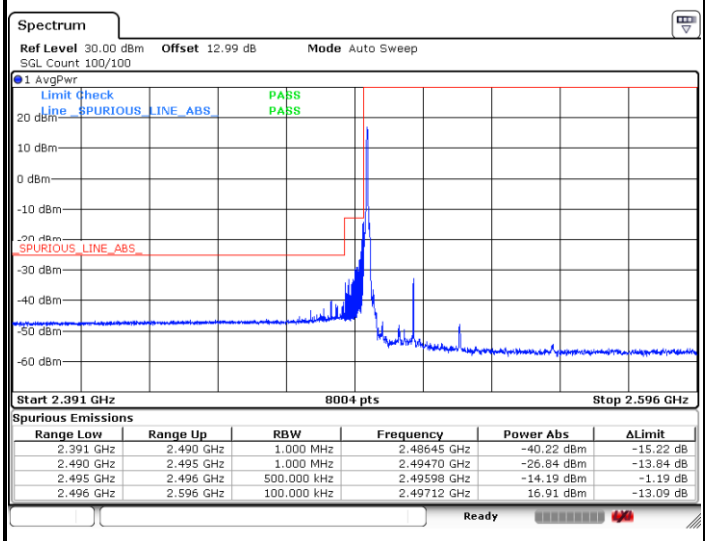
Highest Band Edge / Full RB



Date: 22.JAN.2021 15:20:07

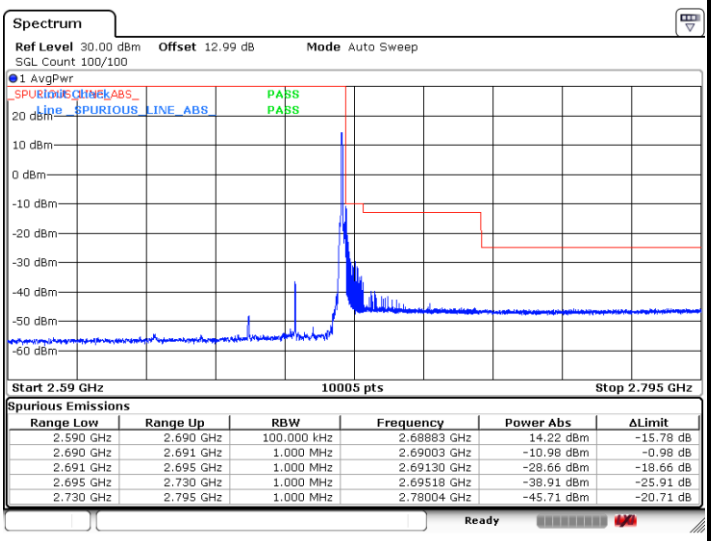
FR1 n41 / 30MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0



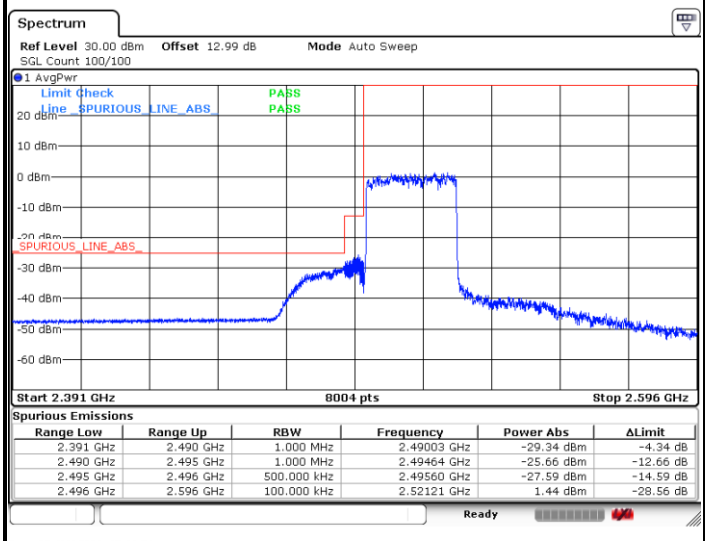
Date: 22.JAN.2021 15:13:39

Highest Band Edge / 1RBmax



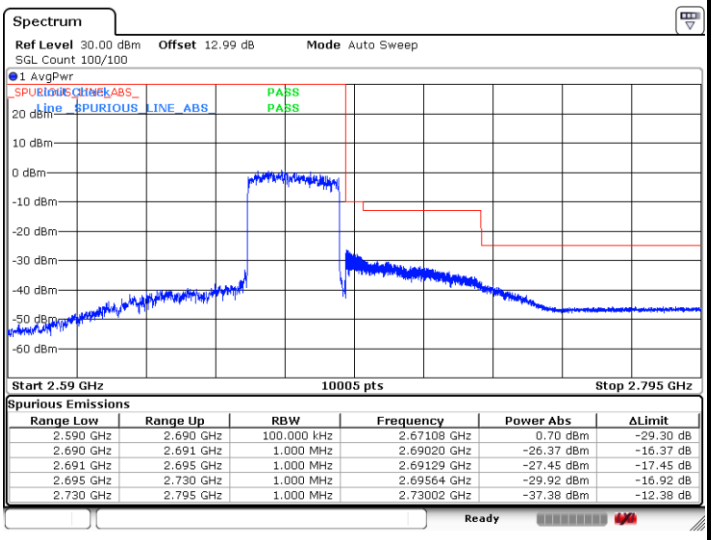
Date: 22.JAN.2021 15:23:29

Lowest Band Edge / Full RB



Date: 22.JAN.2021 15:11:54

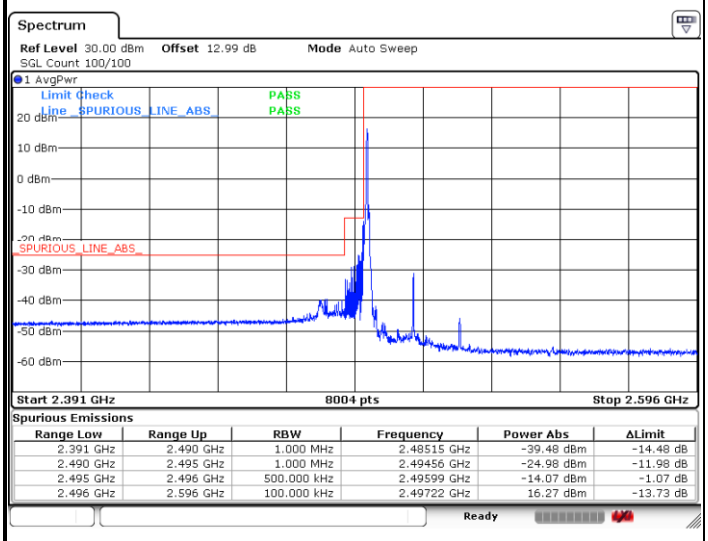
Highest Band Edge / Full RB



Date: 22.JAN.2021 15:20:27

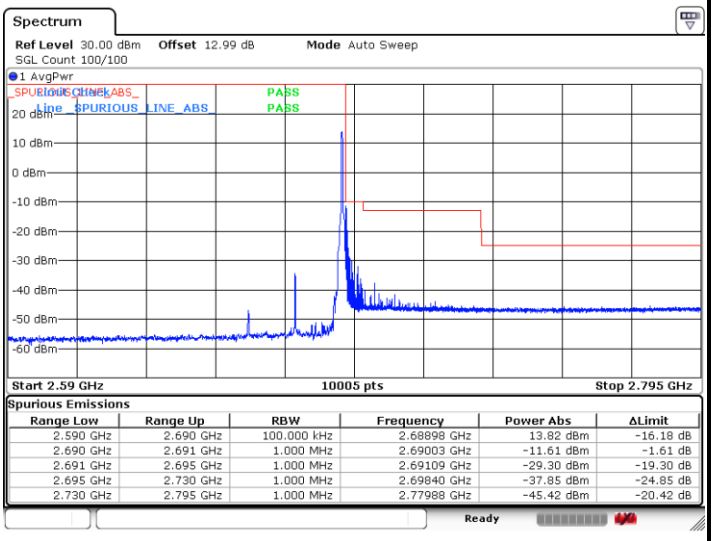
FR1 n41 / 30MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



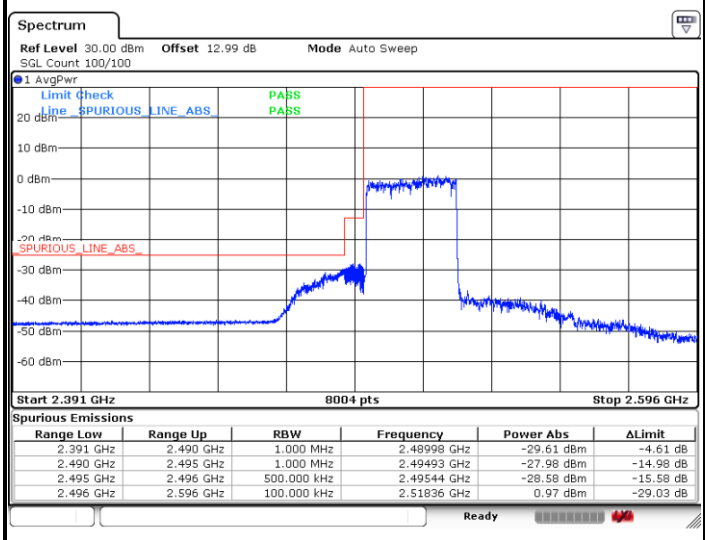
Date: 22.JAN.2021 15:12:32

Highest Band Edge / 1RB24



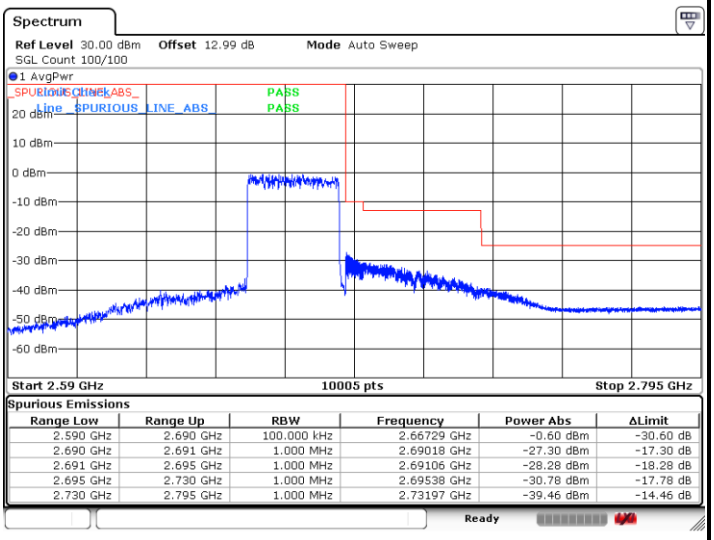
Date: 22.JAN.2021 15:23:51

Lowest Band Edge / Full RB



Date: 22.JAN.2021 15:12:11

Highest Band Edge / Full RB



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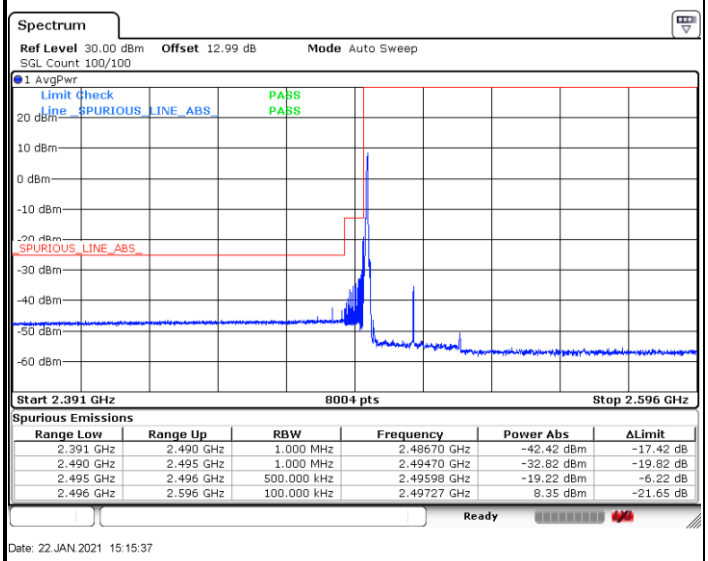
FR1 n41 / 30MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0



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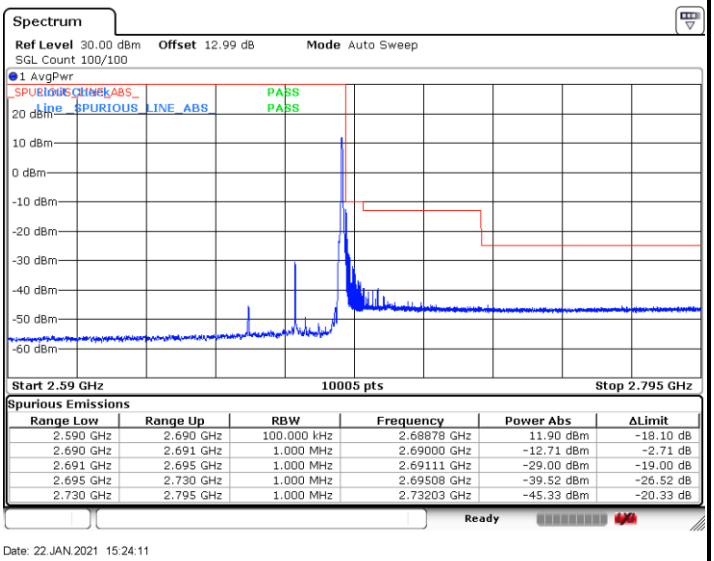
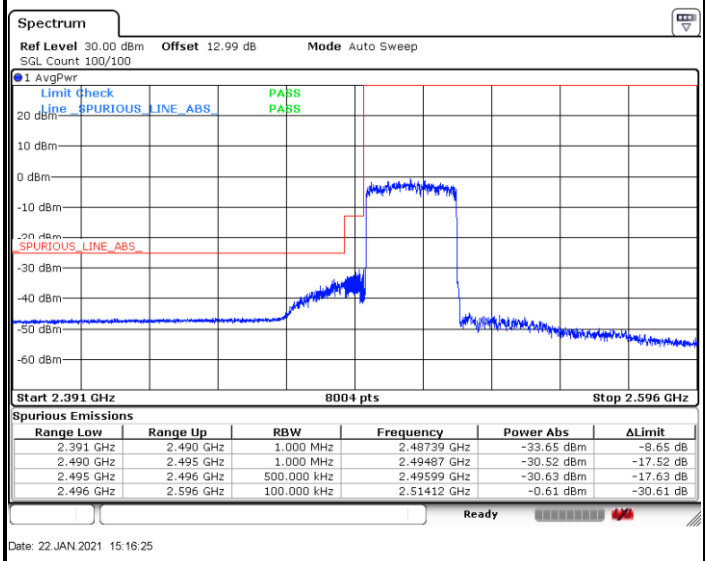
Highest Band Edge / 1RB24



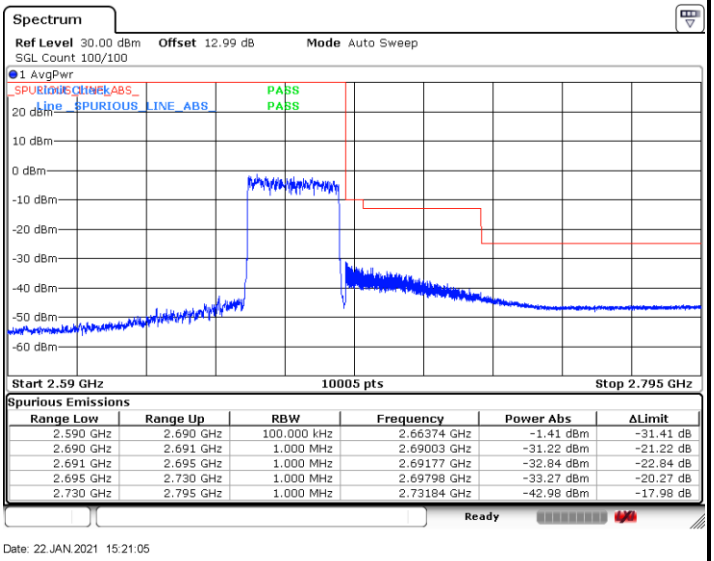
Date: 22.JAN.2021 15:24:11

Lowest Band Edge / Full RB



Date: 22.JAN.2021 15:16:25

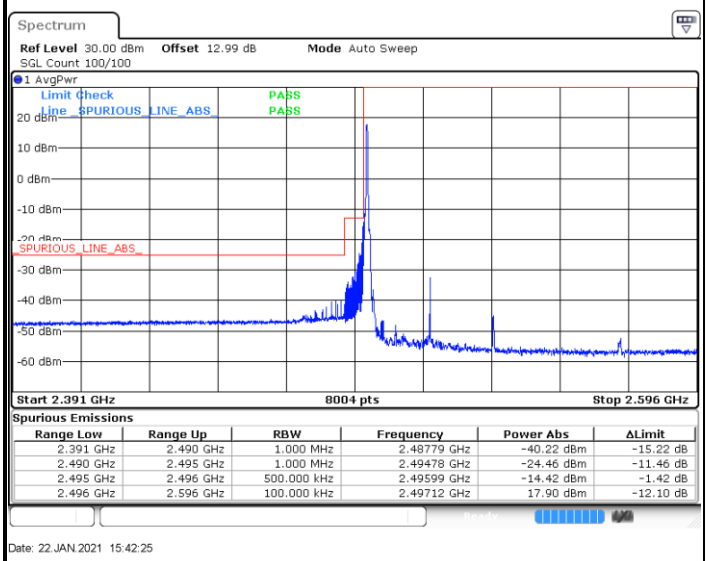
Highest Band Edge / Full RB



Date: 22.JAN.2021 15:21:05

FR1 n41 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

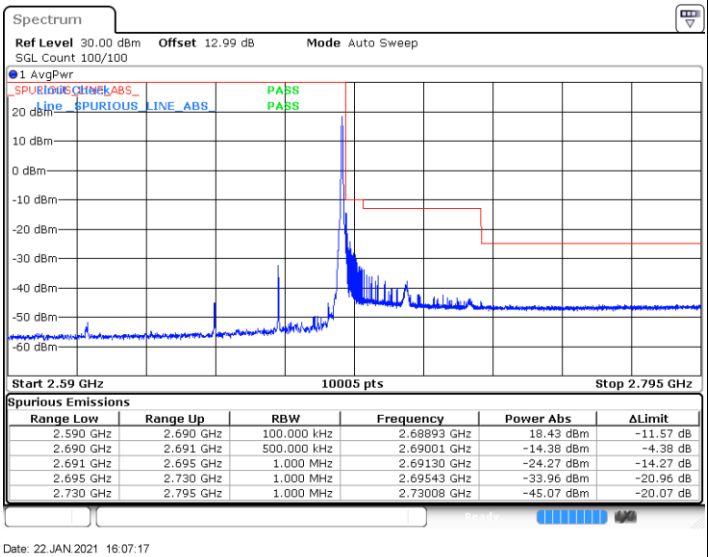


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48779 GHz	-40.22 dBm	-15.22 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49478 GHz	-24.46 dBm	-11.46 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49599 GHz	-14.42 dBm	-1.42 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.49712 GHz	17.90 dBm	-12.10 dB

Date: 22.JAN.2021 15:42:25

Highest Band Edge / 1RBmax

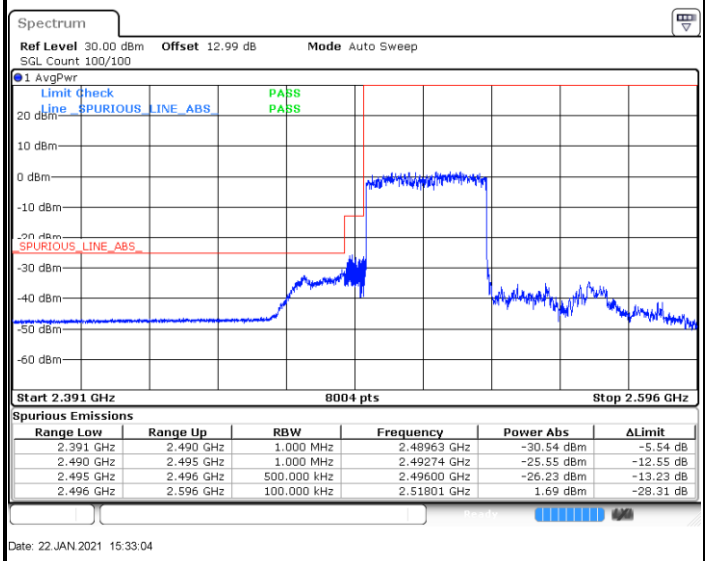


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68893 GHz	18.43 dBm	-11.57 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69001 GHz	-14.38 dBm	-4.38 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69130 GHz	-24.27 dBm	-14.27 dB
2.695 GHz	2.730 GHz	1.000 MHz	2.69543 GHz	-33.96 dBm	-20.96 dB
2.730 GHz	2.795 GHz	1.000 MHz	2.73008 GHz	-45.07 dBm	-20.07 dB

Date: 22.JAN.2021 16:07:17

Lowest Band Edge / Full RB

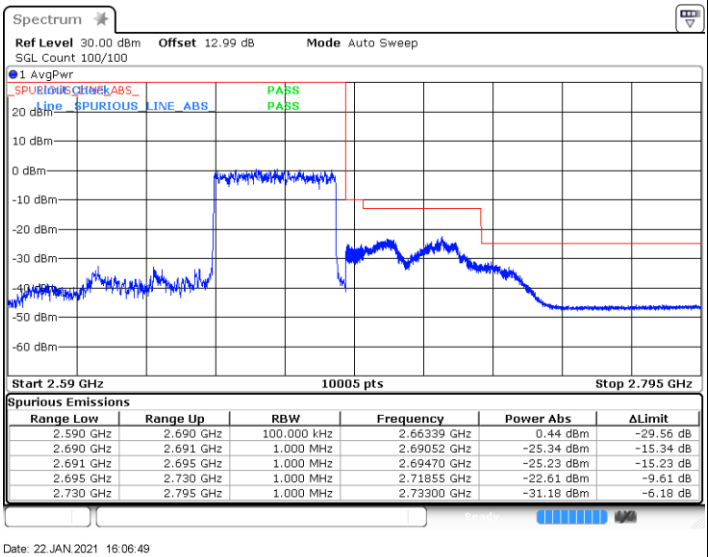


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48963 GHz	-30.54 dBm	-5.54 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49274 GHz	-25.55 dBm	-12.55 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49600 GHz	-26.23 dBm	-13.23 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.51801 GHz	1.69 dBm	-28.31 dB

Date: 22.JAN.2021 15:33:04

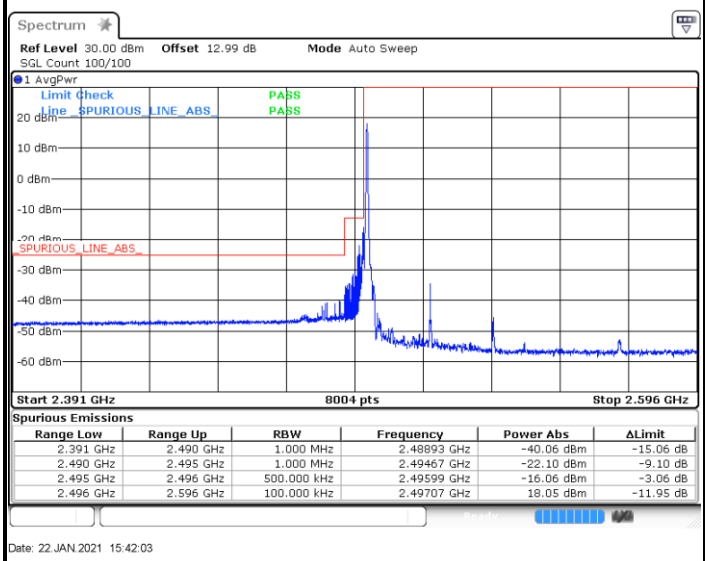
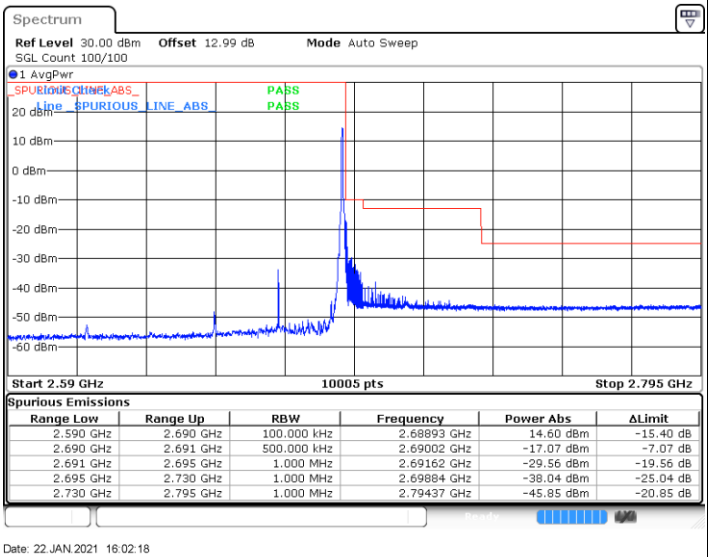
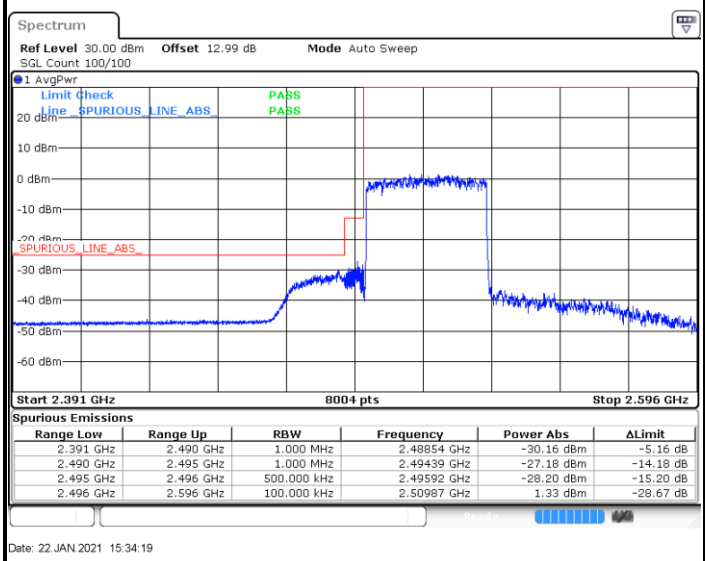
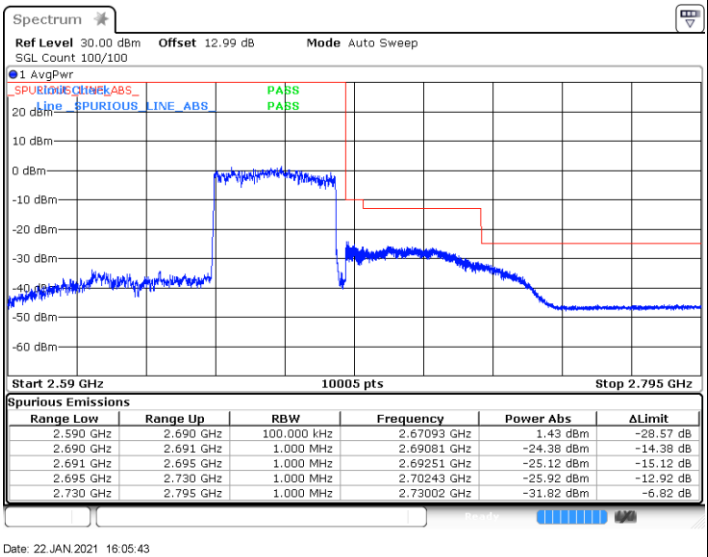
Highest Band Edge / Full RB



Spurious Emissions

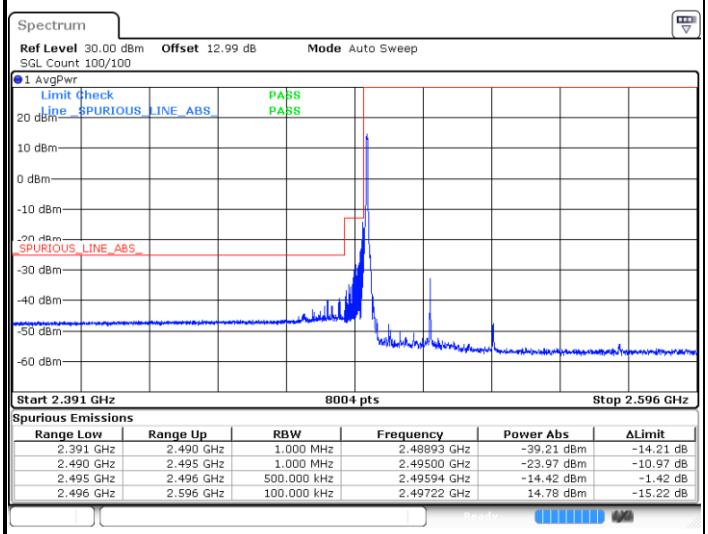
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.66339 GHz	0.44 dBm	-29.56 dB
2.690 GHz	2.691 GHz	1.000 MHz	2.69052 GHz	-25.34 dBm	-15.34 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69470 GHz	-25.23 dBm	-15.23 dB
2.695 GHz	2.730 GHz	1.000 MHz	2.71855 GHz	-22.61 dBm	-9.61 dB
2.730 GHz	2.795 GHz	1.000 MHz	2.73300 GHz	-31.18 dBm	-6.18 dB

Date: 22.JAN.2021 16:06:49

FR1 n41 / 40MHz / DFT-S OFDM / QPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n41 / 40MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

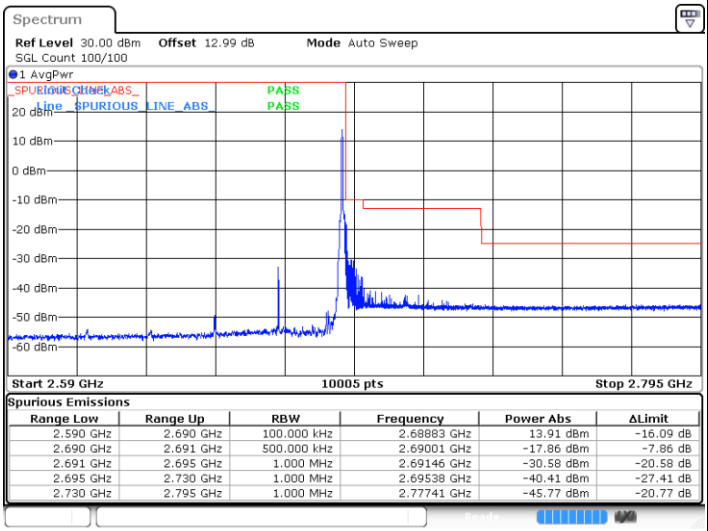


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48893 GHz	-39.21 dBm	-14.21 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49500 GHz	-23.97 dBm	-10.97 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49594 GHz	-14.42 dBm	-1.42 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.49722 GHz	14.78 dBm	-15.22 dB

Date: 22.JAN.2021 15:40:19

Highest Band Edge / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68883 GHz	13.91 dBm	-16.09 dB
2.690 GHz	2.691 GHz	500.000 kHz	2.69001 GHz	-17.86 dBm	-7.86 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69146 GHz	-30.58 dBm	-20.58 dB
2.695 GHz	2.730 GHz	1.000 MHz	2.69538 GHz	-40.41 dBm	-27.41 dB
2.730 GHz	2.795 GHz	1.000 MHz	2.77741 GHz	-45.77 dBm	-20.77 dB

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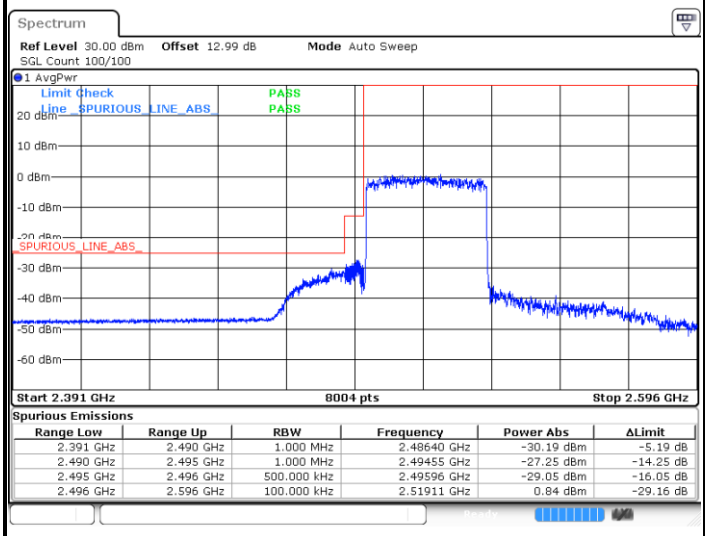
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.391 GHz	2.490 GHz	1.000 MHz	2.48640 GHz	-30.19 dBm	-5.19 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49455 GHz	-27.25 dBm	-14.25 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49596 GHz	-29.05 dBm	-16.05 dB
2.496 GHz	2.596 GHz	100.000 kHz	2.51911 GHz	0.84 dBm	-29.16 dB

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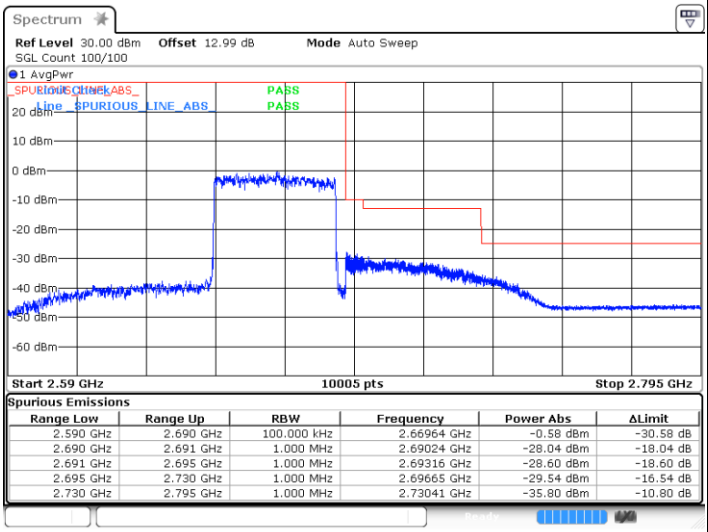
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.66964 GHz	-0.58 dBm	-30.58 dB
2.690 GHz	2.691 GHz	1.000 MHz	2.69024 GHz	-28.04 dBm	-18.04 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69316 GHz	-28.60 dBm	-18.60 dB
2.695 GHz	2.730 GHz	1.000 MHz	2.69665 GHz	-29.54 dBm	-16.54 dB
2.730 GHz	2.795 GHz	1.000 MHz	2.73041 GHz	-35.80 dBm	-10.80 dB

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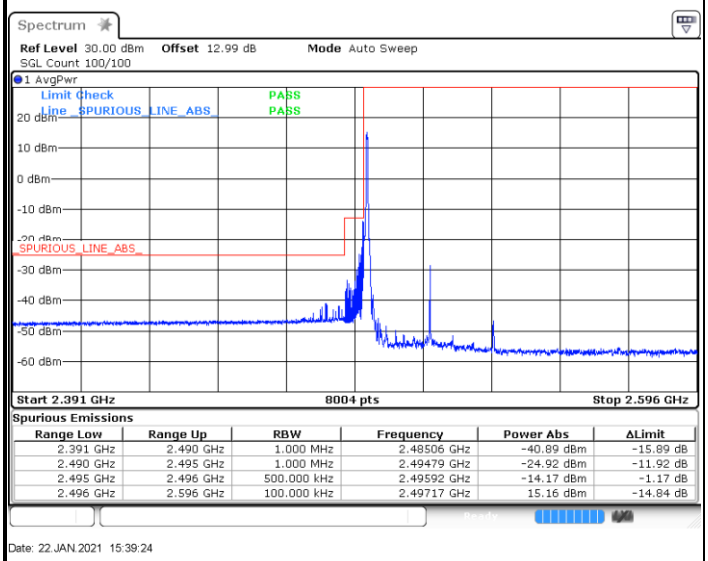
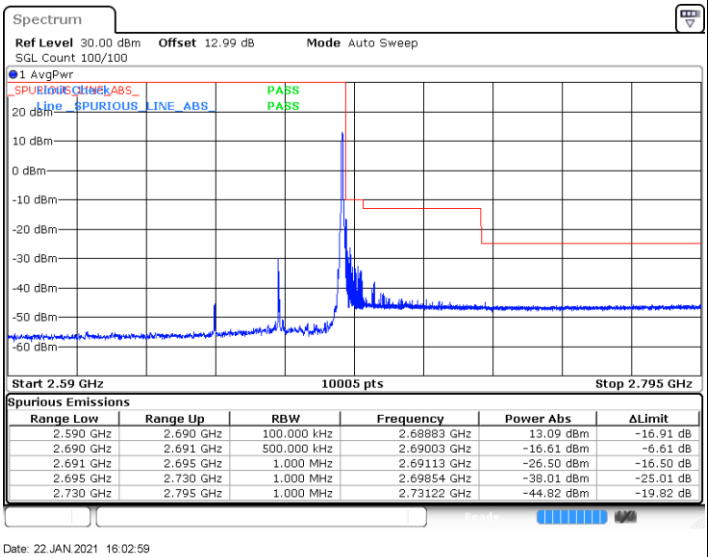
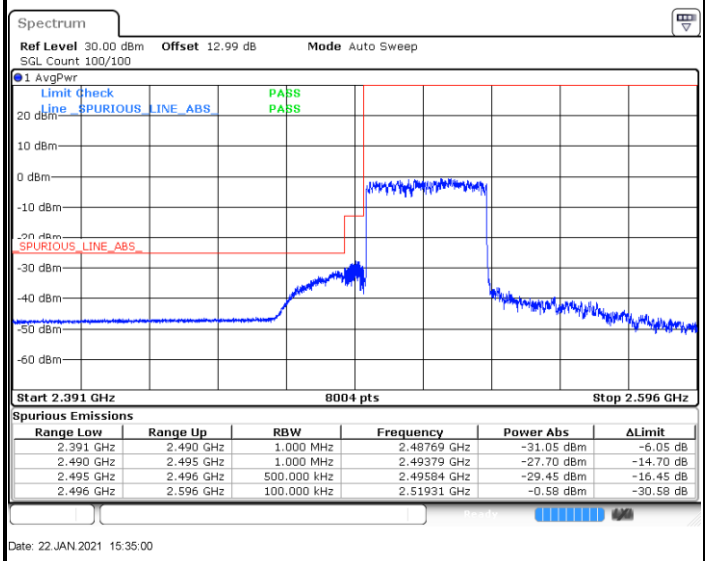
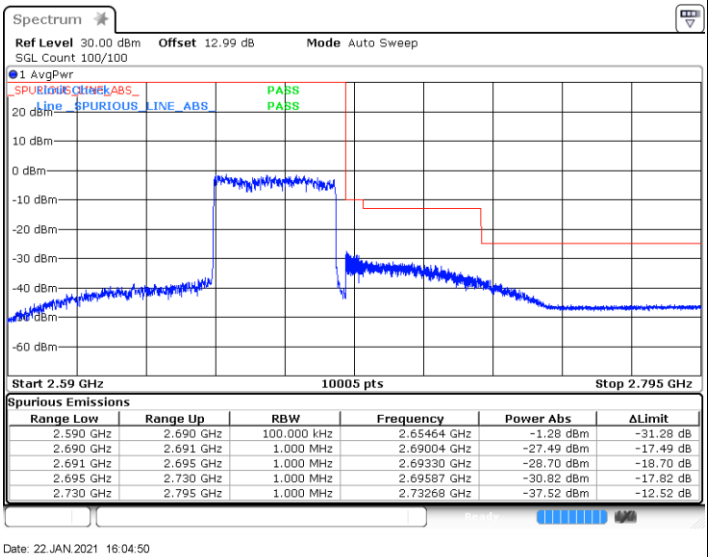
FR1 n41 / 40MHz / DFT-S OFDM / 64Q	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB24**
	
Date: 22.JAN.2021 15:39:24	Date: 22.JAN.2021 16:02:59
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
Date: 22.JAN.2021 15:35:00	Date: 22.JAN.2021 16:04:50