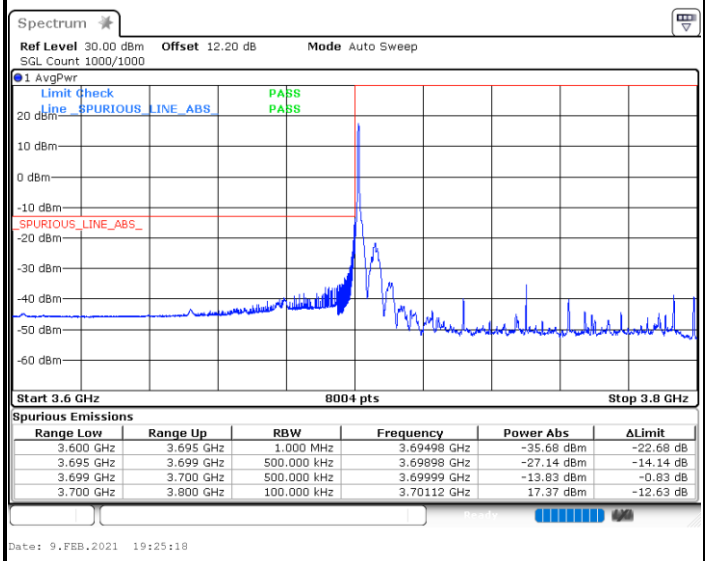
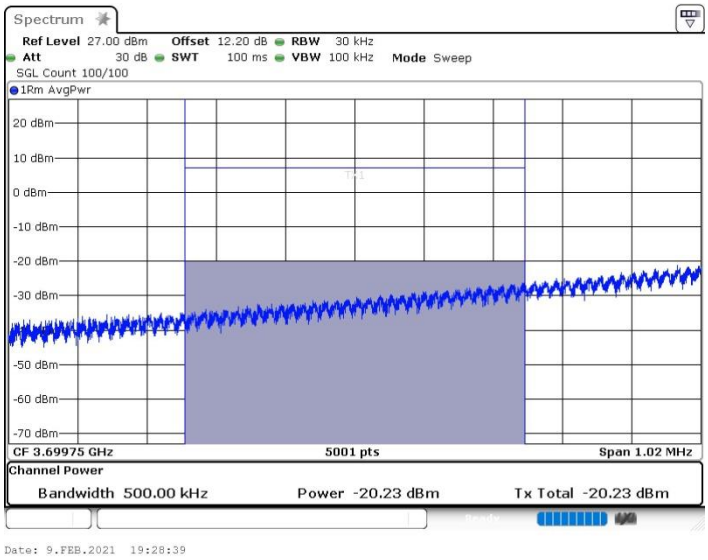
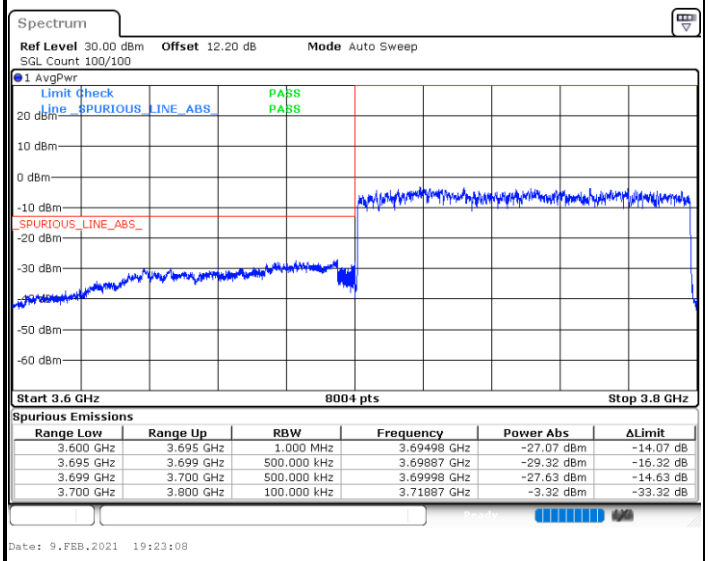
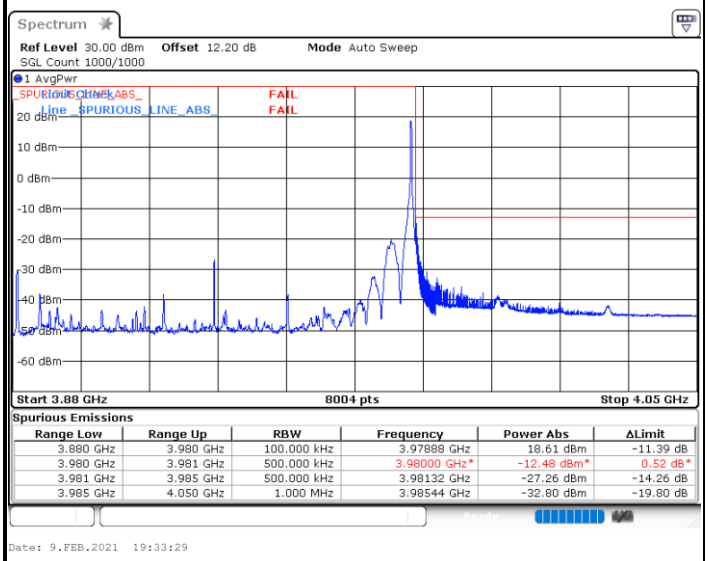
FR1 n77 / 100MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 n77 / 100MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

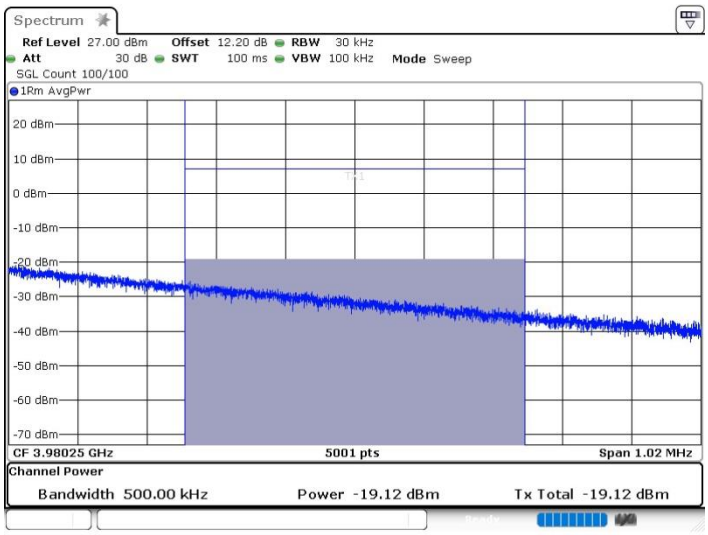


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97888 GHz	18.61 dBm	-11.39 dB
3.980 GHz	3.981 GHz	500.000 kHz	3.98000 GHz*	-12.48 dBm*	0.52 dB*
3.981 GHz	3.985 GHz	500.000 kHz	3.98132 GHz	-27.26 dBm	-14.26 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98544 GHz	-32.80 dBm	-19.80 dB

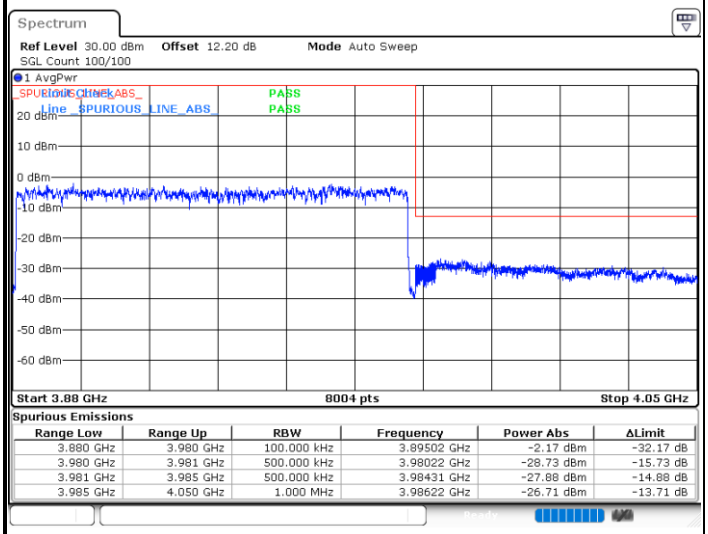
Date: 9.FEB.2021 19:33:29

Channel Power < -13dBm Pass



Date: 9.FEB.2021 19:36:04

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.89502 GHz	-2.17 dBm	-32.17 dB
3.980 GHz	3.981 GHz	500.000 kHz	3.98022 GHz	-28.73 dBm	-15.73 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98431 GHz	-27.88 dBm	-14.88 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98622 GHz	-26.71 dBm	-13.71 dB

Date: 9.FEB.2021 19:37:25

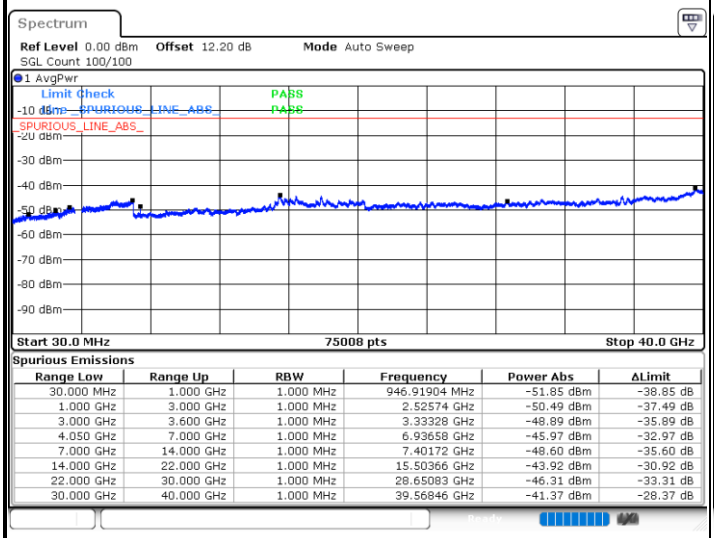
Channel Power < -13dBm Pass

/

Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

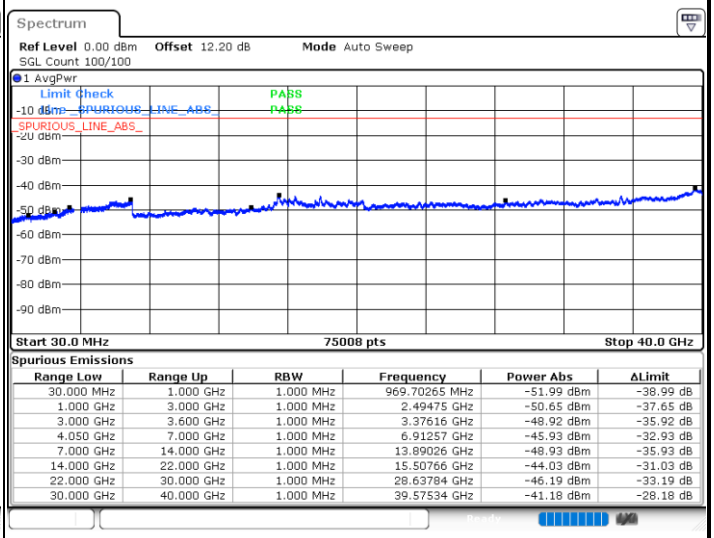


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	946.91904 MHz	-51.85 dBm	-38.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52574 GHz	-50.49 dBm	-37.49 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.33328 GHz	-48.89 dBm	-35.89 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93658 GHz	-45.97 dBm	-32.97 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40172 GHz	-48.60 dBm	-35.60 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50366 GHz	-43.92 dBm	-30.92 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65083 GHz	-46.31 dBm	-33.31 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56846 GHz	-41.37 dBm	-28.37 dB

Date: 9.FEB.2021 23:04:35

Middle Channel / 1RB

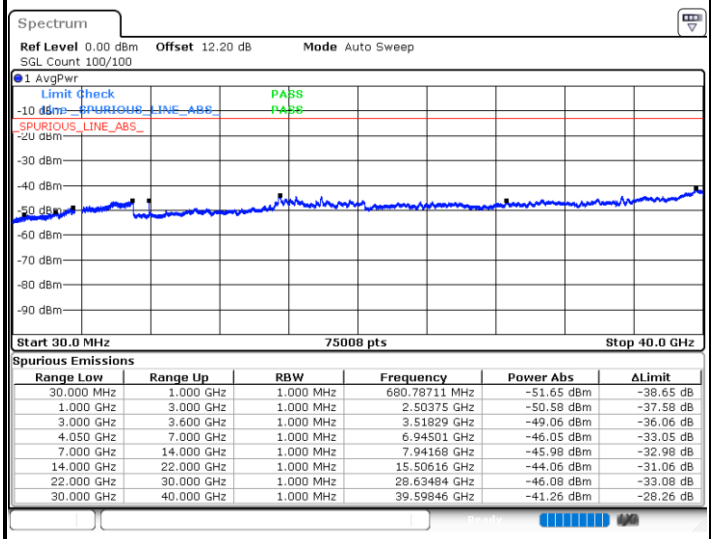


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-51.99 dBm	-38.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49475 GHz	-50.65 dBm	-37.65 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37616 GHz	-48.92 dBm	-35.92 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91257 GHz	-45.93 dBm	-32.93 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89026 GHz	-48.93 dBm	-35.93 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50766 GHz	-44.03 dBm	-31.03 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63784 GHz	-46.19 dBm	-33.19 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57534 GHz	-41.18 dBm	-28.18 dB

Date: 9.FEB.2021 22:59:48

Highest Channel / 1RB



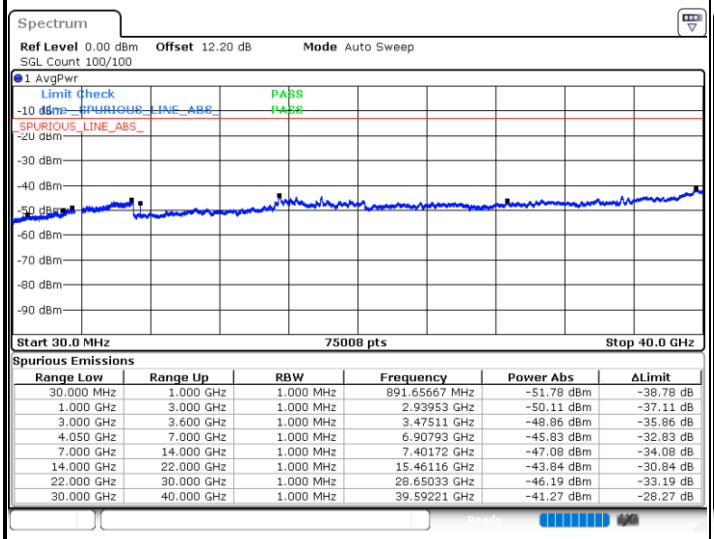
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	680.78711 MHz	-51.65 dBm	-38.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50375 GHz	-50.58 dBm	-37.58 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.51829 GHz	-49.06 dBm	-36.06 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.94501 GHz	-46.05 dBm	-33.05 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.94168 GHz	-45.98 dBm	-32.98 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50616 GHz	-44.06 dBm	-31.06 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63484 GHz	-46.08 dBm	-33.08 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59846 GHz	-41.26 dBm	-28.26 dB

Date: 9.FEB.2021 23:06:01

FR1 n77 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

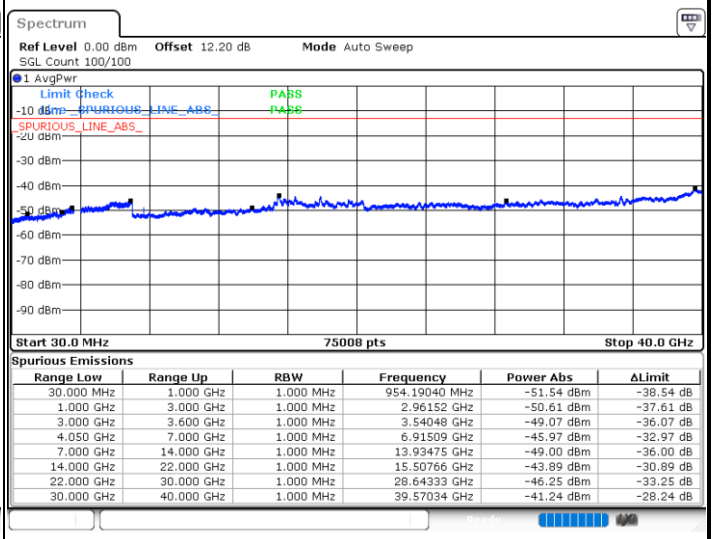


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	891.65667 MHz	-51.78 dBm	-38.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.93953 GHz	-50.11 dBm	-37.11 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-48.86 dBm	-35.86 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90793 GHz	-45.83 dBm	-32.83 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40172 GHz	-47.08 dBm	-34.08 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46116 GHz	-43.84 dBm	-30.84 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65033 GHz	-46.19 dBm	-33.19 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59221 GHz	-41.27 dBm	-28.27 dB

Date: 9.FEB.2021 23:02:51

Middle Channel / 1RB

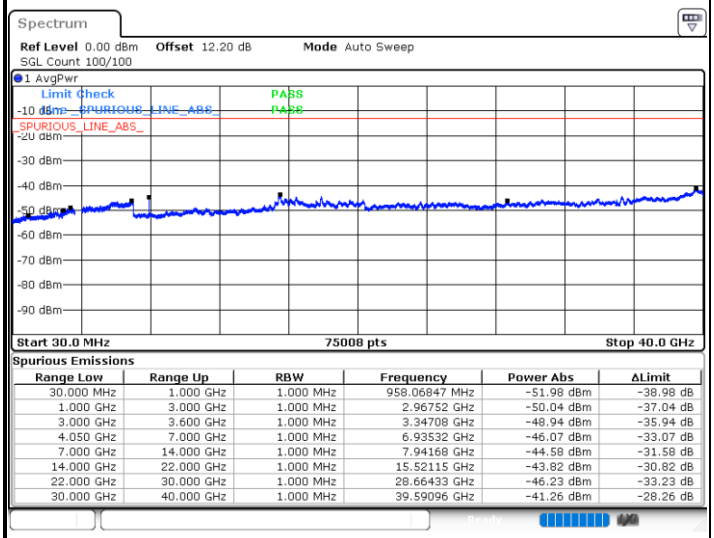


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	954.19040 MHz	-51.54 dBm	-38.54 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96152 GHz	-50.61 dBm	-37.61 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.54048 GHz	-49.07 dBm	-36.07 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91509 GHz	-45.97 dBm	-32.97 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93475 GHz	-49.00 dBm	-36.00 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50766 GHz	-43.89 dBm	-30.89 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64333 GHz	-46.25 dBm	-33.25 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57034 GHz	-41.24 dBm	-28.24 dB

Date: 9.FEB.2021 23:01:01

Highest Channel / 1RB



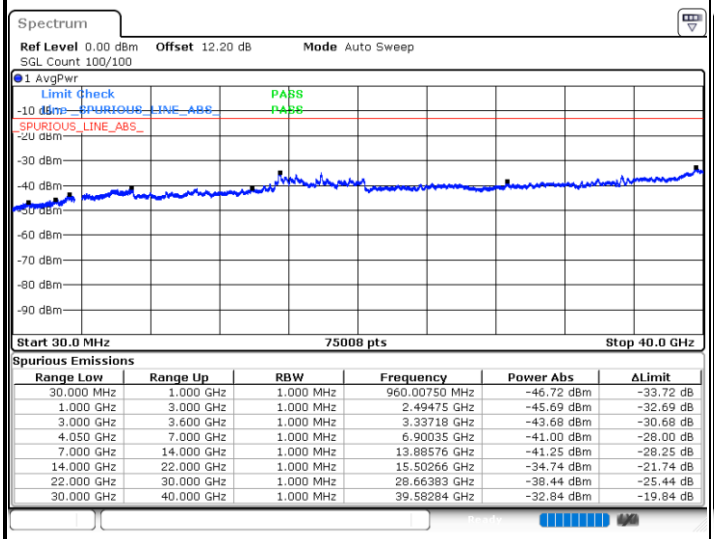
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	958.06847 MHz	-51.98 dBm	-38.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96752 GHz	-50.04 dBm	-37.04 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.34708 GHz	-48.94 dBm	-35.94 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93532 GHz	-46.07 dBm	-33.07 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.94168 GHz	-44.58 dBm	-31.58 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.52115 GHz	-43.82 dBm	-30.82 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66433 GHz	-46.23 dBm	-33.23 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59096 GHz	-41.26 dBm	-28.26 dB

Date: 9.FEB.2021 23:07:22

FR1 n77 / 50MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

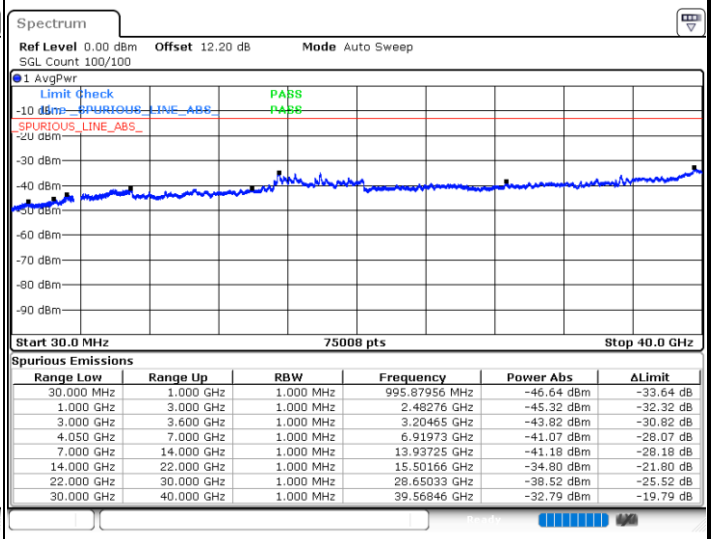


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.00750 MHz	-46.72 dBm	-33.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49475 GHz	-45.69 dBm	-32.69 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.33718 GHz	-43.68 dBm	-30.68 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90035 GHz	-41.00 dBm	-28.00 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.88576 GHz	-41.25 dBm	-28.25 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50266 GHz	-34.74 dBm	-21.74 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66383 GHz	-38.44 dBm	-25.44 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58284 GHz	-32.84 dBm	-19.84 dB

Date: 9.FEB.2021 20:57:13

Middle Channel / 1RB

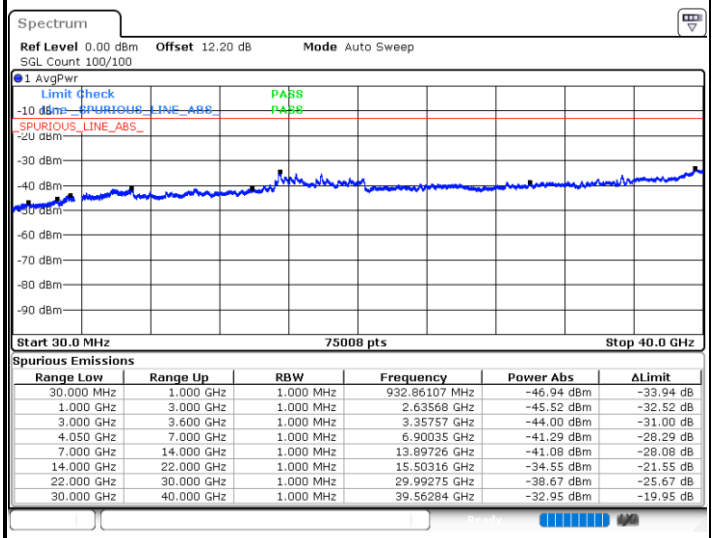


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	995.87956 MHz	-46.64 dBm	-33.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48276 GHz	-45.32 dBm	-32.32 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.20465 GHz	-43.82 dBm	-30.82 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91973 GHz	-41.07 dBm	-28.07 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93725 GHz	-41.18 dBm	-28.18 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50166 GHz	-34.80 dBm	-21.80 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65033 GHz	-38.52 dBm	-25.52 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56846 GHz	-32.79 dBm	-19.79 dB

Date: 9.FEB.2021 20:44:41

Highest Channel / 1RB



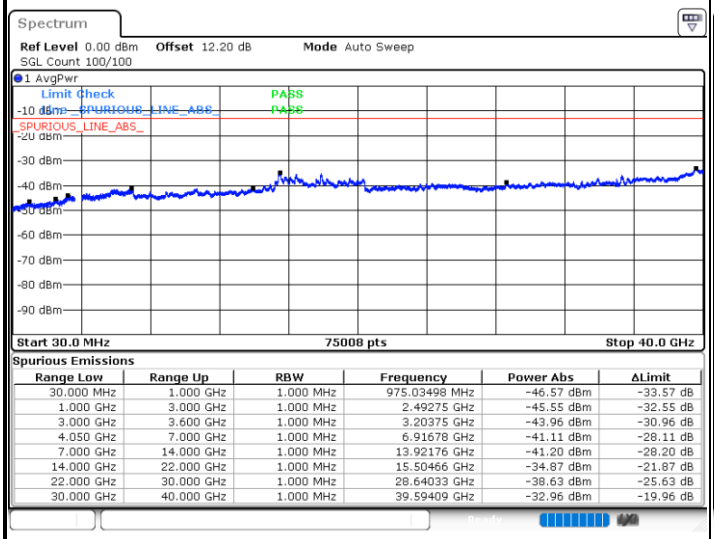
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	932.86107 MHz	-46.94 dBm	-33.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63568 GHz	-45.52 dBm	-32.52 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.35757 GHz	-44.00 dBm	-31.00 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90035 GHz	-41.29 dBm	-28.29 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89726 GHz	-41.08 dBm	-28.08 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50316 GHz	-34.55 dBm	-21.55 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99275 GHz	-38.67 dBm	-25.67 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56284 GHz	-32.95 dBm	-19.95 dB

Date: 9.FEB.2021 20:58:46

FR1 n77 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

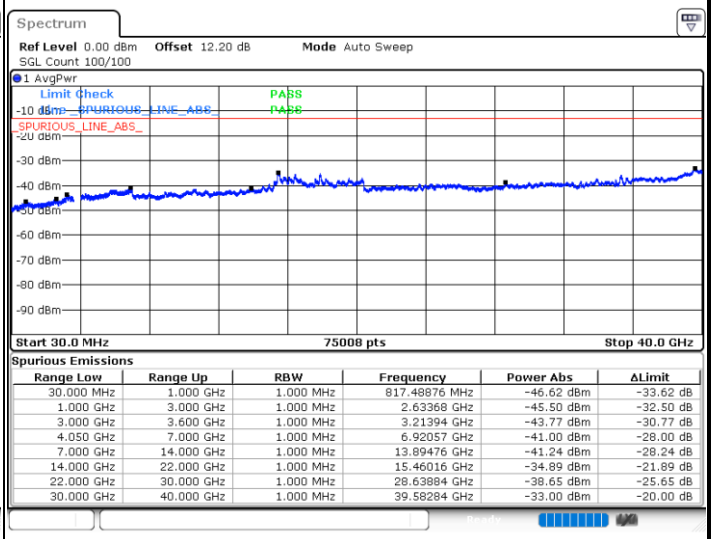


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	975.03498 MHz	-46.57 dBm	-33.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49275 GHz	-45.55 dBm	-32.55 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.20375 GHz	-43.96 dBm	-30.96 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91678 GHz	-41.11 dBm	-28.11 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92176 GHz	-41.20 dBm	-28.20 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50466 GHz	-34.87 dBm	-21.87 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64033 GHz	-38.63 dBm	-25.63 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59409 GHz	-32.96 dBm	-19.96 dB

Date: 9.FEB.2021 20:55:33

Middle Channel / 1RB

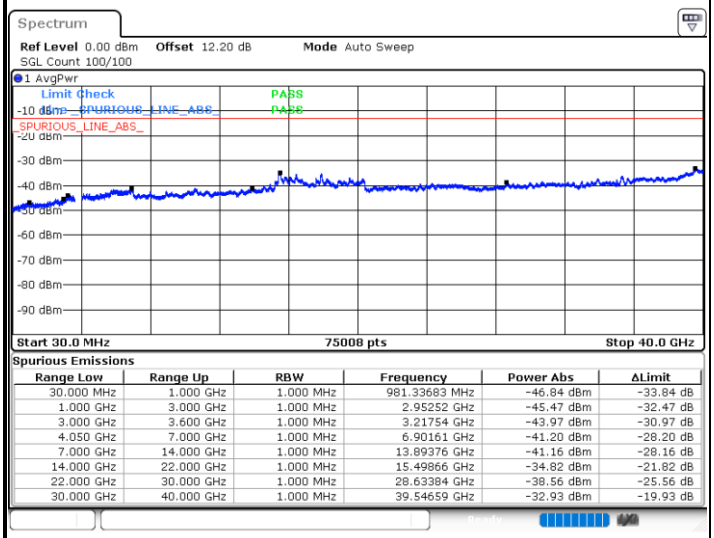


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	817.48876 MHz	-46.62 dBm	-33.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63368 GHz	-45.50 dBm	-32.50 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.21394 GHz	-43.77 dBm	-30.77 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92057 GHz	-41.00 dBm	-28.00 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89476 GHz	-41.24 dBm	-28.24 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46016 GHz	-34.89 dBm	-21.89 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63884 GHz	-38.65 dBm	-25.65 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58284 GHz	-33.00 dBm	-20.00 dB

Date: 9.FEB.2021 20:53:50

Highest Channel / 1RB



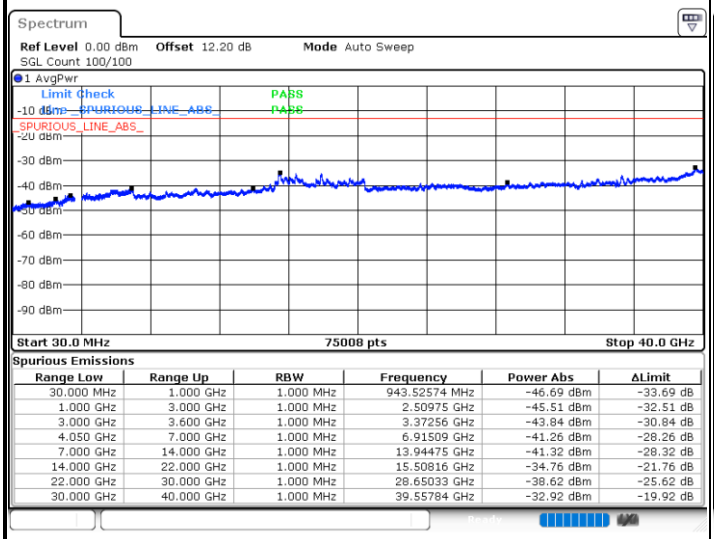
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-46.84 dBm	-33.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95252 GHz	-45.47 dBm	-32.47 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.21754 GHz	-43.97 dBm	-30.97 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90161 GHz	-41.20 dBm	-28.20 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89376 GHz	-41.16 dBm	-28.16 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49866 GHz	-34.82 dBm	-21.82 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63384 GHz	-38.56 dBm	-25.56 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.54659 GHz	-32.93 dBm	-19.93 dB

Date: 9.FEB.2021 21:51:47

FR1 n77 / 100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

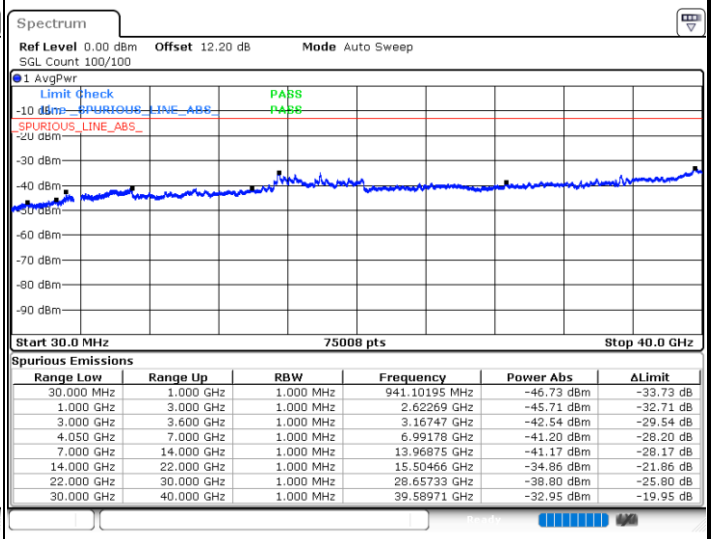


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-46.69 dBm	-33.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50975 GHz	-45.51 dBm	-32.51 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37256 GHz	-43.84 dBm	-30.84 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91509 GHz	-41.26 dBm	-28.26 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94475 GHz	-41.32 dBm	-28.32 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50816 GHz	-34.76 dBm	-21.76 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65033 GHz	-38.62 dBm	-25.62 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55784 GHz	-32.92 dBm	-19.92 dB

Date: 9.FEB.2021 20:16:48

Middle Channel / 1RB

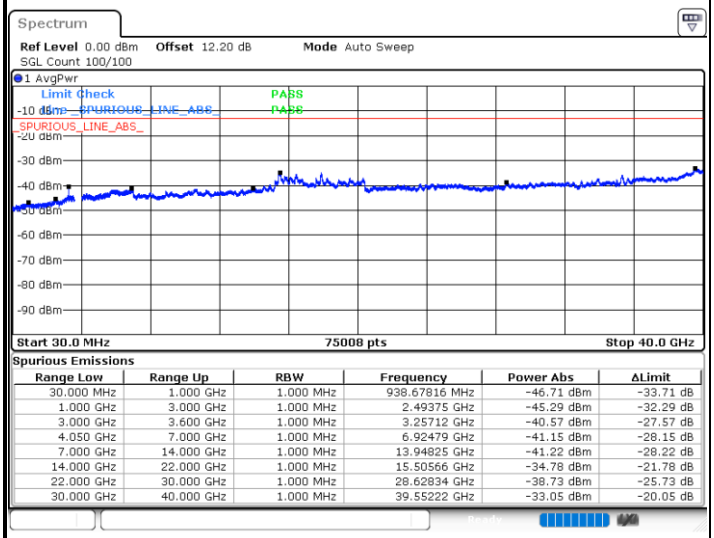


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	941.10195 MHz	-46.73 dBm	-33.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62269 GHz	-45.71 dBm	-32.71 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.16747 GHz	-42.54 dBm	-29.54 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99178 GHz	-41.20 dBm	-28.20 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.96875 GHz	-41.17 dBm	-28.17 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50466 GHz	-34.86 dBm	-21.86 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65733 GHz	-38.80 dBm	-25.80 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58971 GHz	-32.95 dBm	-19.95 dB

Date: 9.FEB.2021 20:01:12

Highest Channel / 1RB



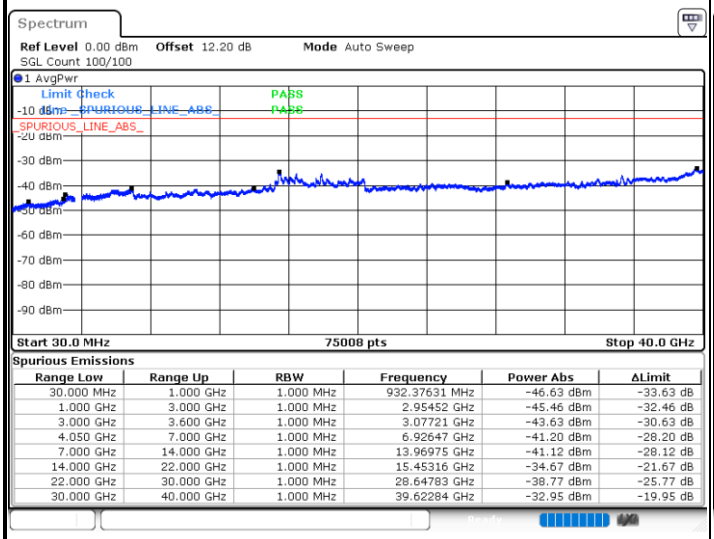
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	938.67816 MHz	-46.71 dBm	-33.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49375 GHz	-45.29 dBm	-32.29 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.25712 GHz	-40.57 dBm	-27.57 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92479 GHz	-41.15 dBm	-28.15 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94825 GHz	-41.22 dBm	-28.22 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50566 GHz	-34.78 dBm	-21.78 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.62834 GHz	-38.73 dBm	-25.73 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55222 GHz	-33.05 dBm	-20.05 dB

Date: 9.FEB.2021 19:58:56

FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

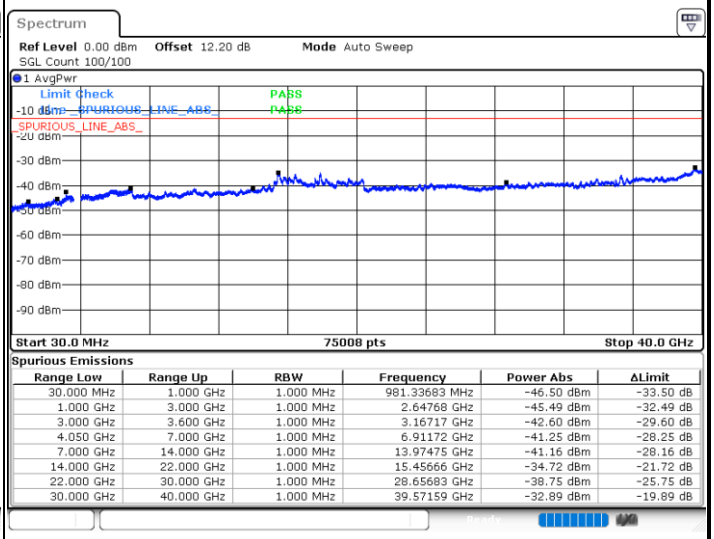


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	932.37631 MHz	-46.63 dBm	-33.63 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95452 GHz	-45.46 dBm	-32.46 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.07721 GHz	-43.63 dBm	-30.63 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92647 GHz	-41.20 dBm	-28.20 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.96975 GHz	-41.12 dBm	-28.12 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45316 GHz	-34.67 dBm	-21.67 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64783 GHz	-38.77 dBm	-25.77 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.62284 GHz	-32.95 dBm	-19.95 dB

Date: 9.FEB.2021 20:07:36

Middle Channel / 1RB

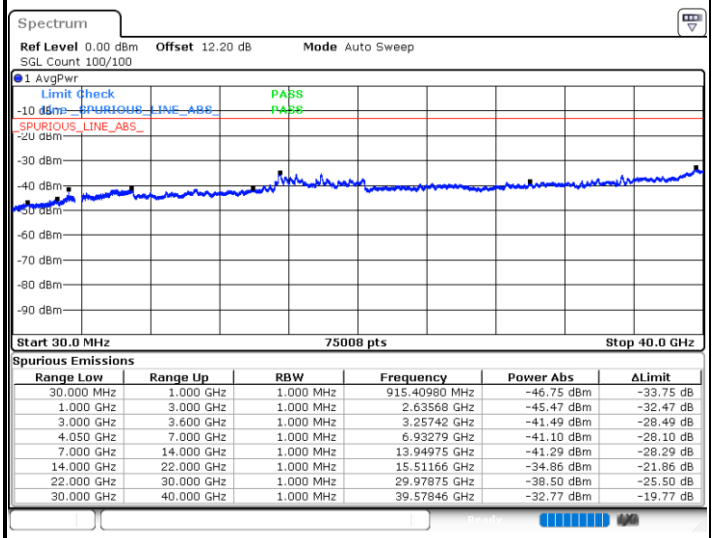


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-46.50 dBm	-33.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.64768 GHz	-45.49 dBm	-32.49 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.16717 GHz	-42.60 dBm	-29.60 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91172 GHz	-41.25 dBm	-28.25 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.97475 GHz	-41.16 dBm	-28.16 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45666 GHz	-34.72 dBm	-21.72 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65683 GHz	-38.75 dBm	-25.75 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57159 GHz	-32.89 dBm	-19.89 dB

Date: 9.FEB.2021 20:02:47

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	915.40980 MHz	-46.75 dBm	-33.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63568 GHz	-45.47 dBm	-32.47 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.25742 GHz	-41.49 dBm	-28.49 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93279 GHz	-41.10 dBm	-28.10 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94975 GHz	-41.29 dBm	-28.29 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51166 GHz	-34.86 dBm	-21.86 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97875 GHz	-38.50 dBm	-25.50 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57846 GHz	-32.77 dBm	-19.77 dB

Date: 9.FEB.2021 19:47:39

Frequency Stability

Test Conditions		NR n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0031	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0015	

Note:

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

5G NR n77 UL_MIMO HPUE -SCS 15K

Peak-to-Average Ratio

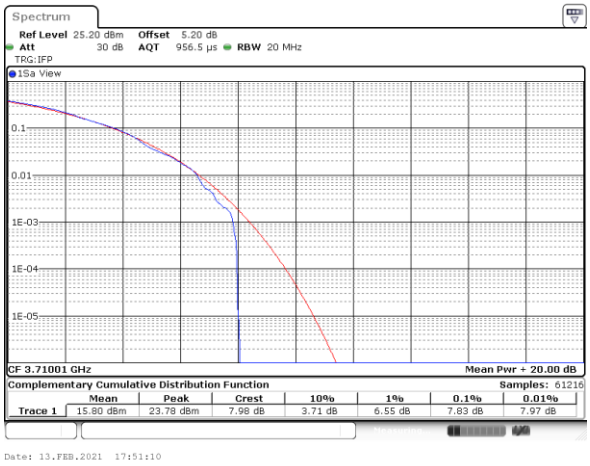
Mode	FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M2)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.83	8.46			PASS
Middle CH	7.8	8.35			
Highest CH	7.42	8.32			

Mode	FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.01	8.41			PASS
Middle CH	7.33	8.38			
Highest CH	7.07	8.12			

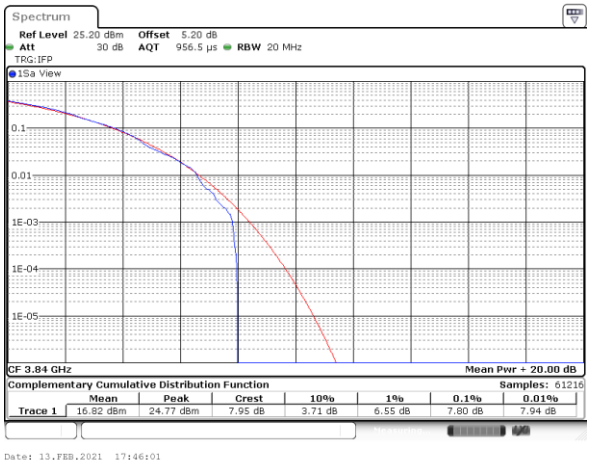
FR1 UL-MIMO n77 / 20MHz / CP-OFDM

QPSK(M2)

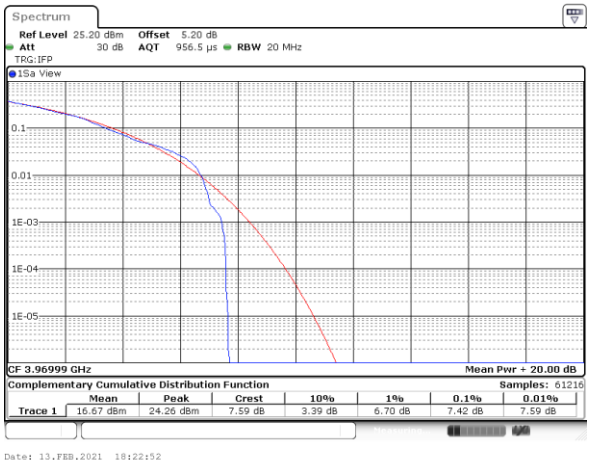
Lowest Channel / 1RB



Middle Channel / 1 RB

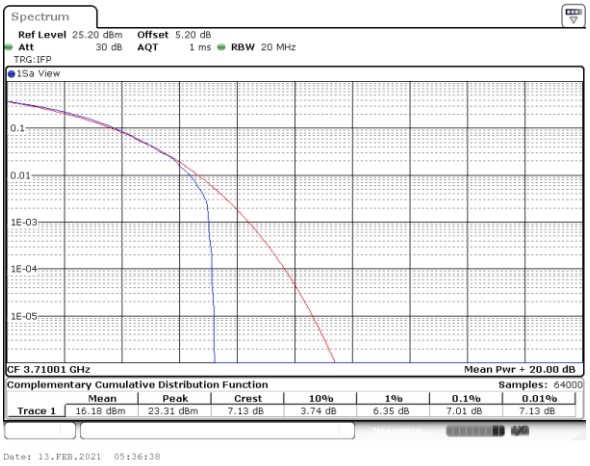


Highest Channel / 1 RB

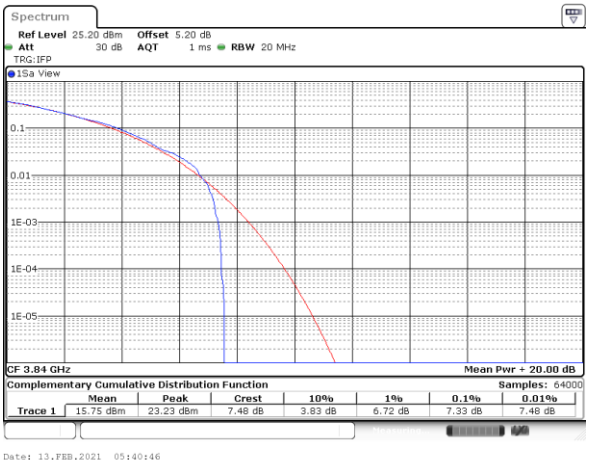


QPSK(M)

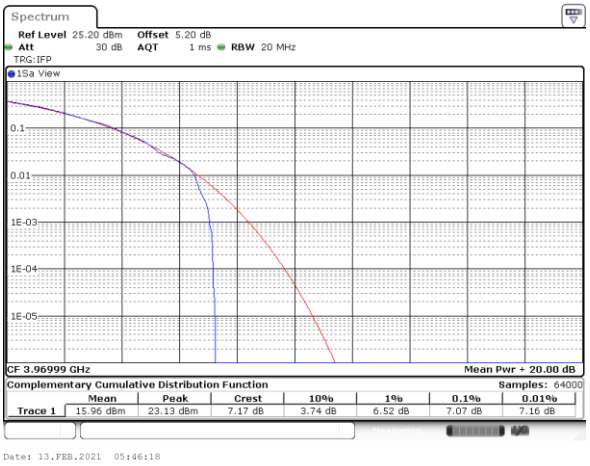
Lowest Channel / 1RB

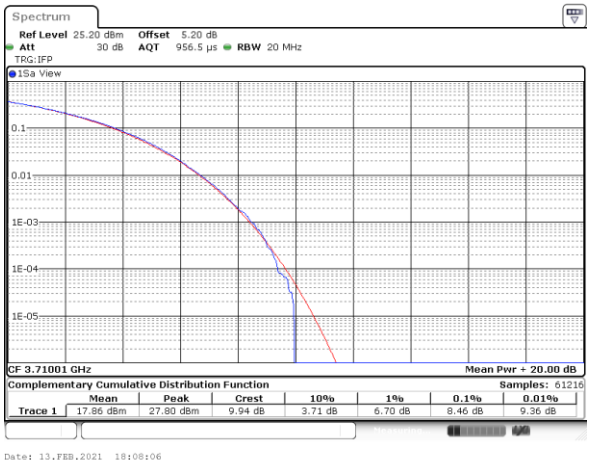
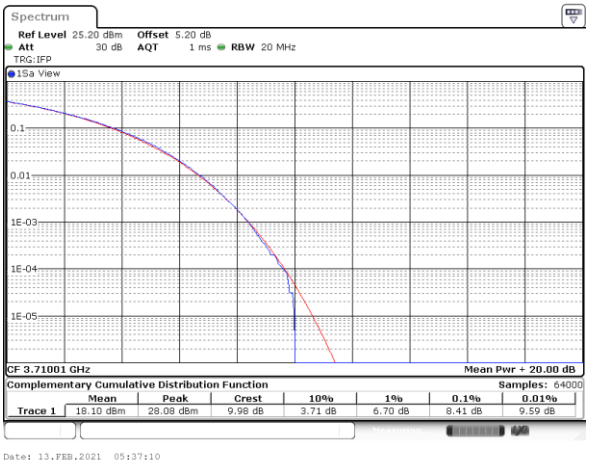
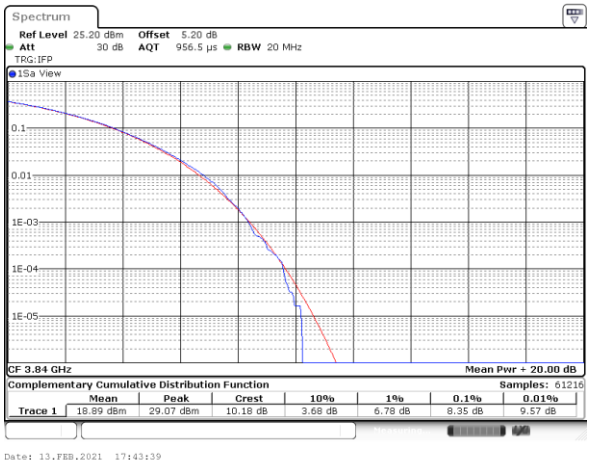
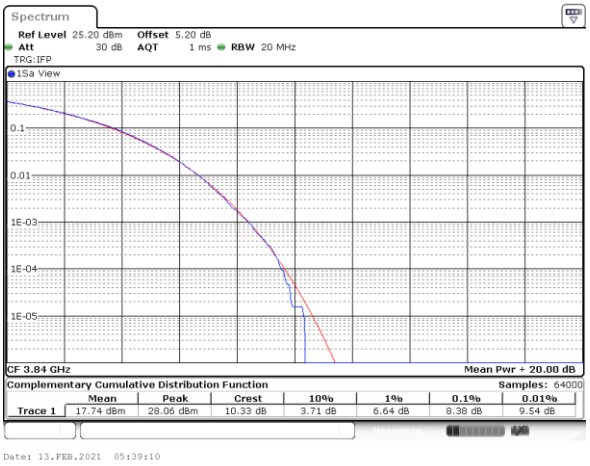
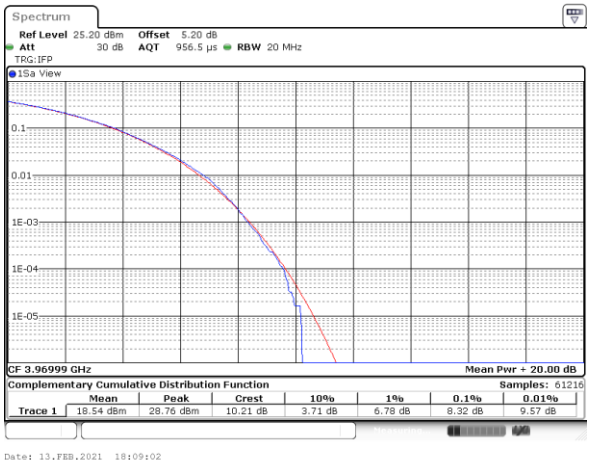
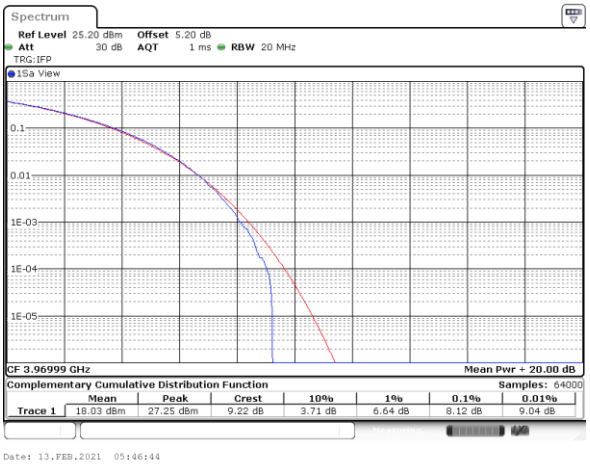


Middle Channel / 1 RB



Highest Channel / 1 RB



FR1 UL-MIMO n77 / 20MHz / CP-OFDM	
QPSK(M2)	**QPSK(M)**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest Channel / Full RB	**Highest Channel / Full RB**
	

26dB Bandwidth

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	9.61	9.65	9.71	9.75	9.73	9.75	9.61	9.73

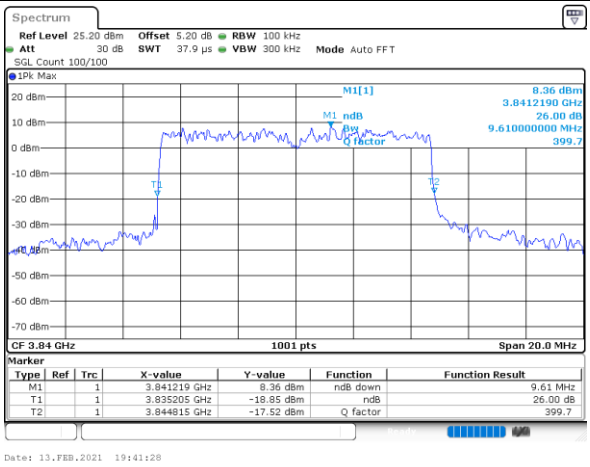
Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.93	14.84	14.84	14.87	14.90	14.84	14.84	14.96

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	19.7	19.66	19.82	19.82	19.78	19.82	19.78	19.66

FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M2)

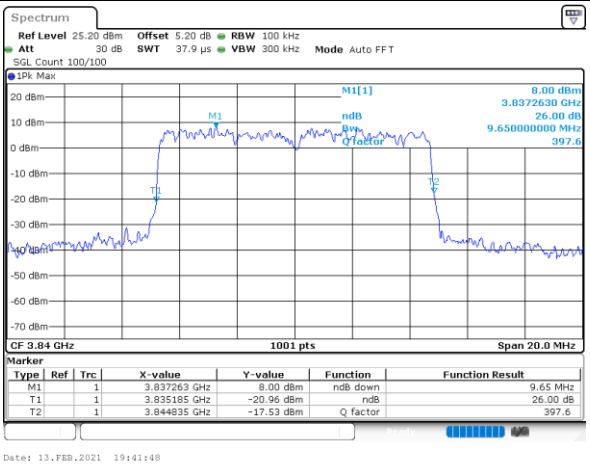
QPSK

Middle Channel



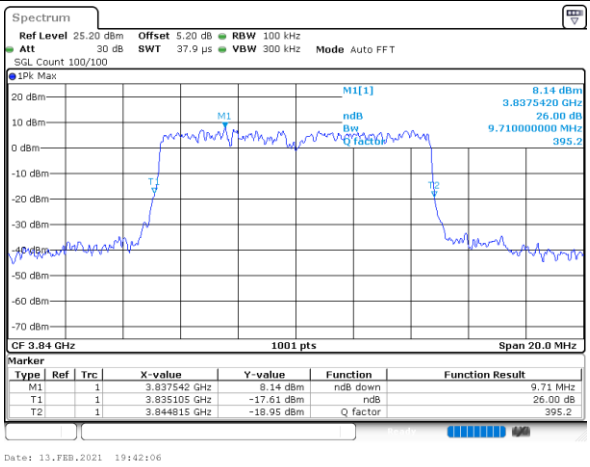
16QAM

Middle Channel



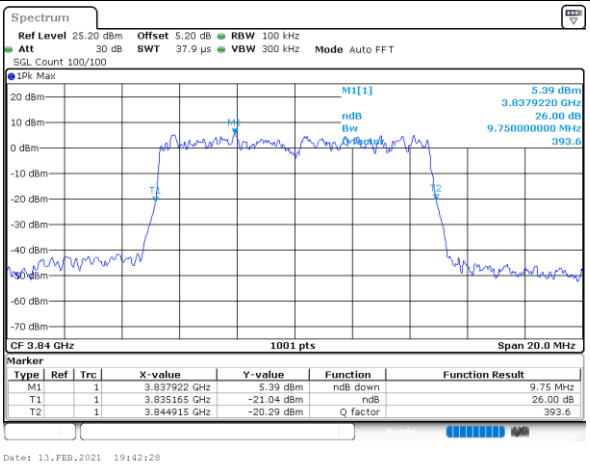
64QAM

Middle Channel



256QAM

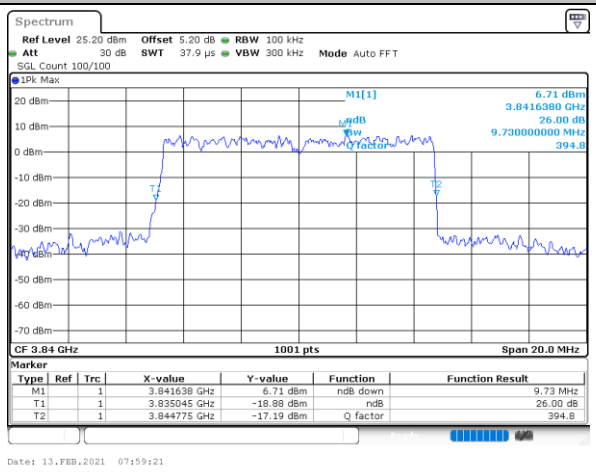
Middle Channel



FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M)

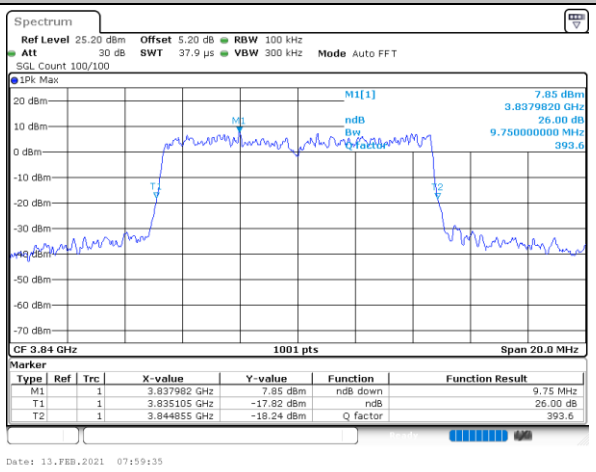
QPSK

Middle Channel



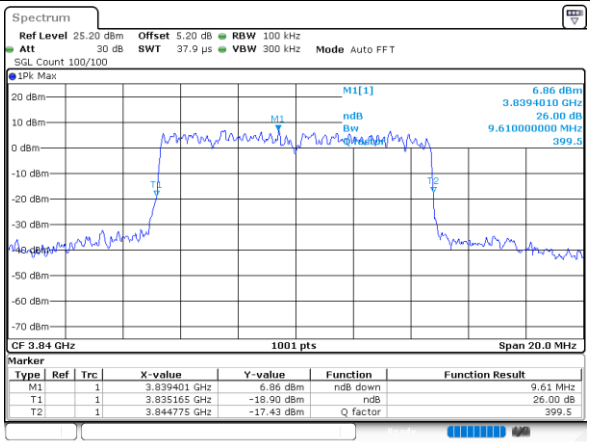
16QAM

Middle Channel



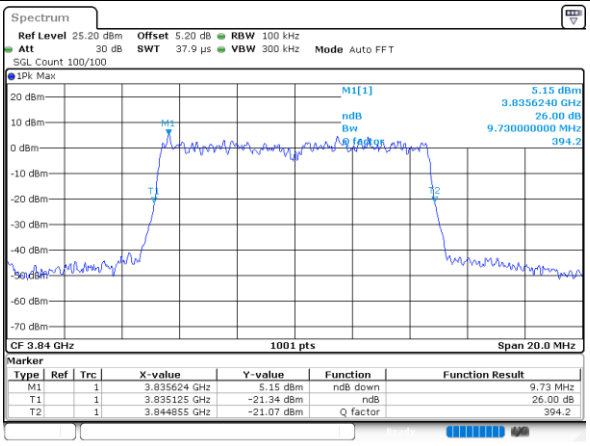
64QAM

Middle Channel



256QAM

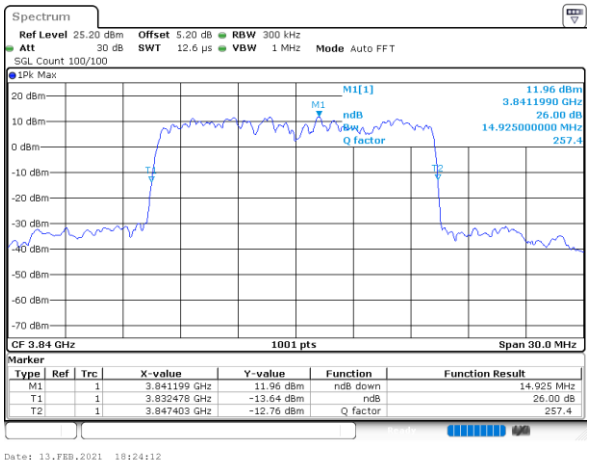
Middle Channel



FR1 UL-MIMO n77 / 15MHz / CP-OFDM (M2)

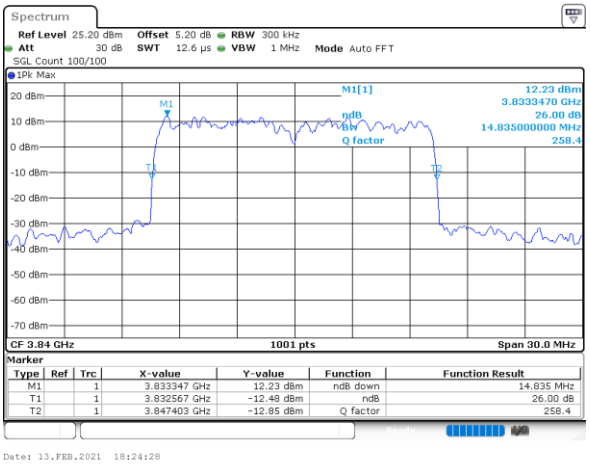
QPSK

Middle Channel



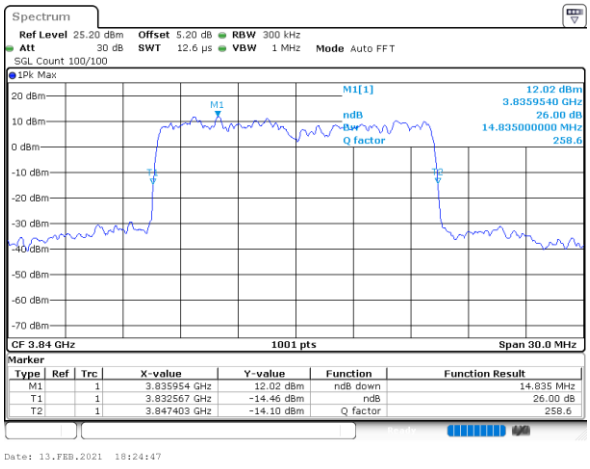
16QAM

Middle Channel



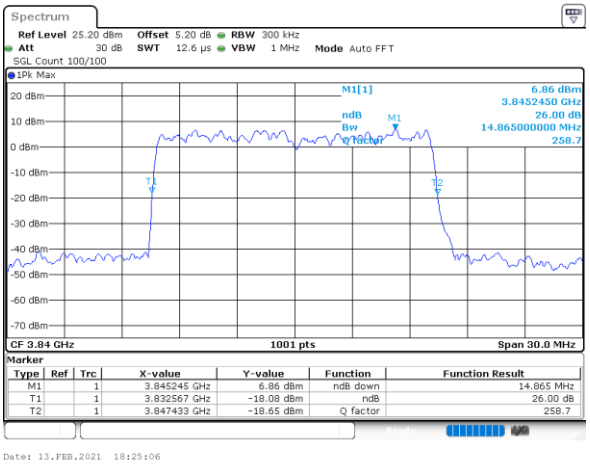
64QAM

Middle Channel



256QAM

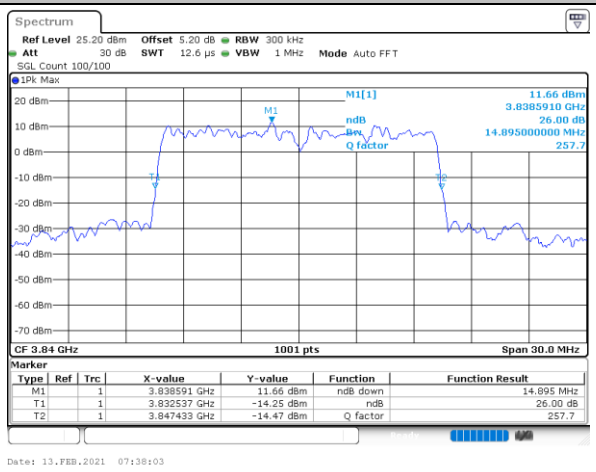
Middle Channel



FR1 UL-MIMO n77 / 15MHz / CP-OFDM (M)

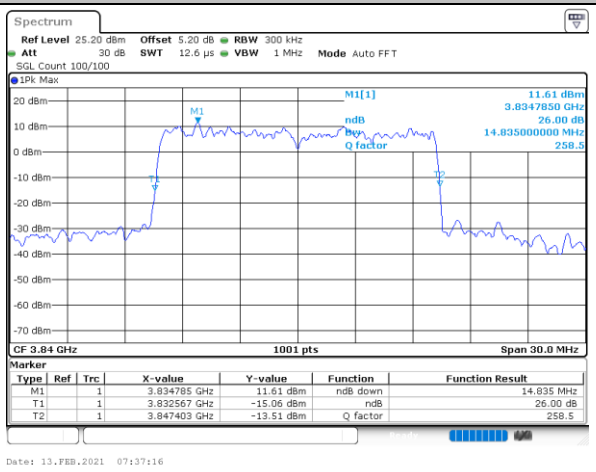
QPSK

Middle Channel



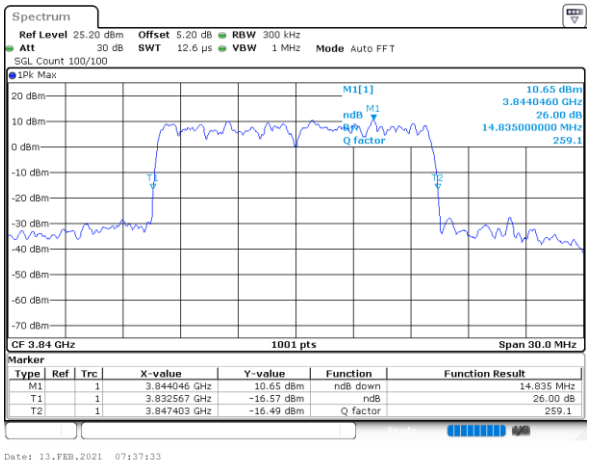
16QAM

Middle Channel



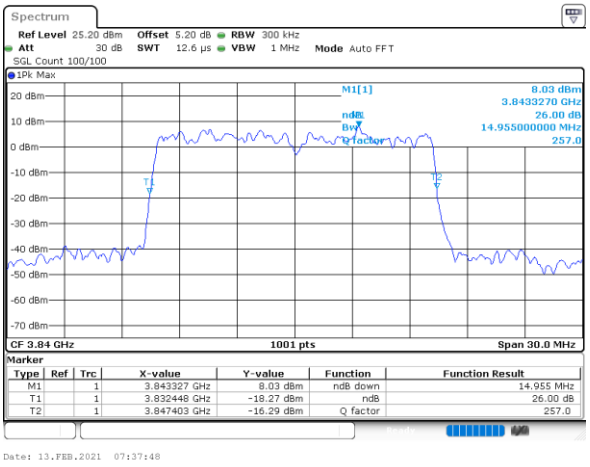
64QAM

Middle Channel



256QAM

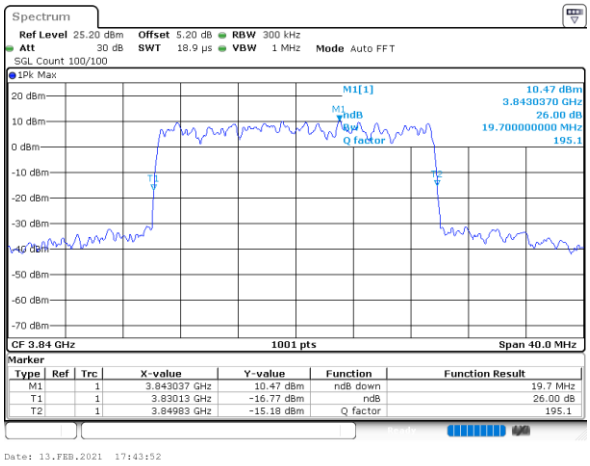
Middle Channel



FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M2)

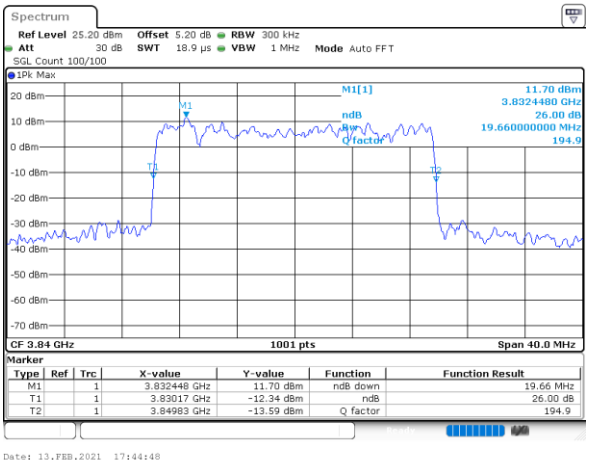
QPSK

Middle Channel



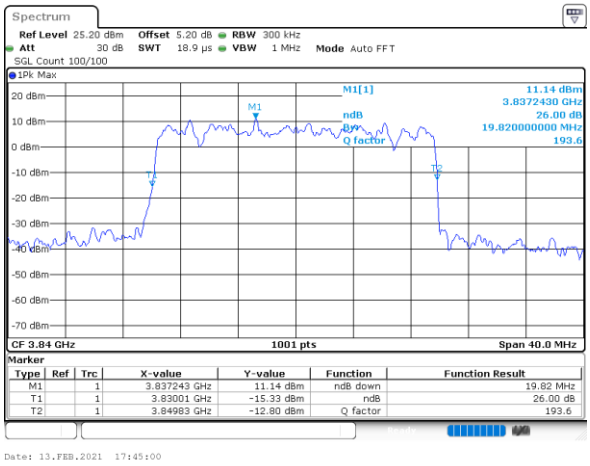
16QAM

Middle Channel



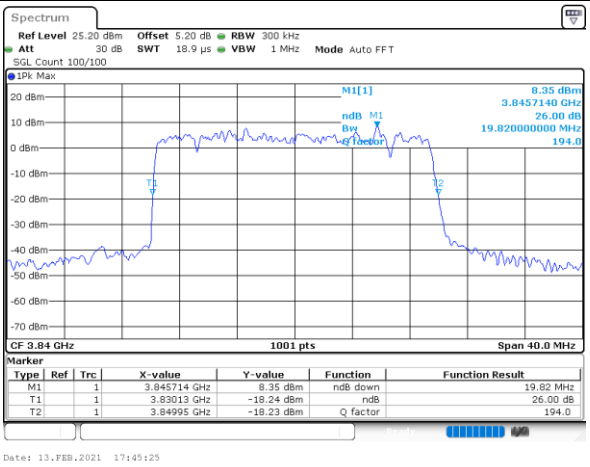
64QAM

Middle Channel



256QAM

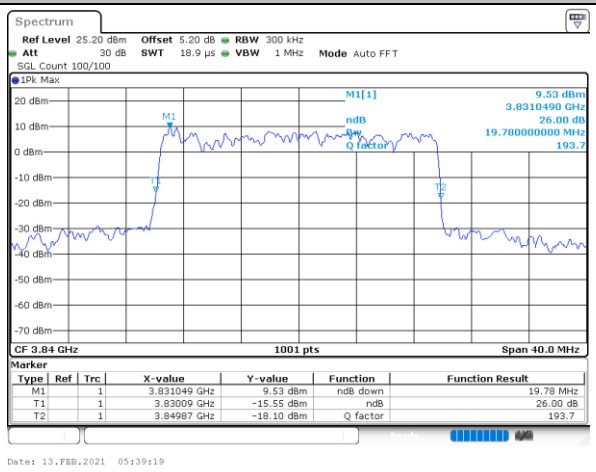
Middle Channel



FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M)

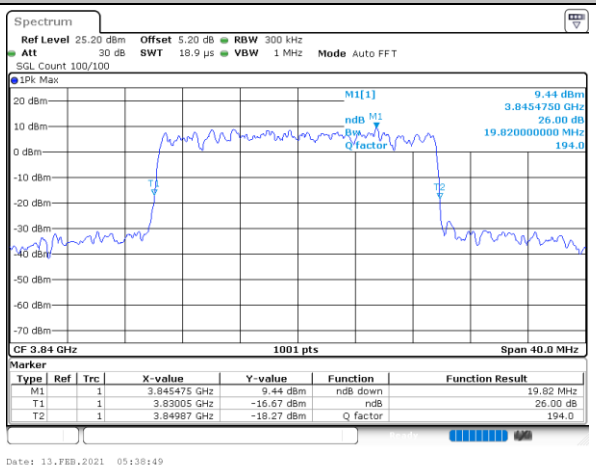
QPSK

Middle Channel



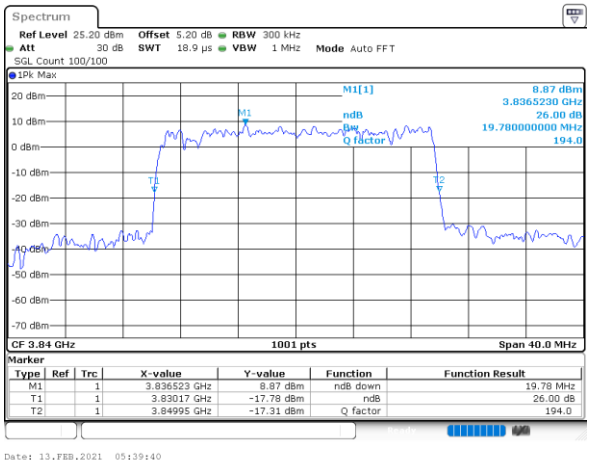
16QAM

Middle Channel



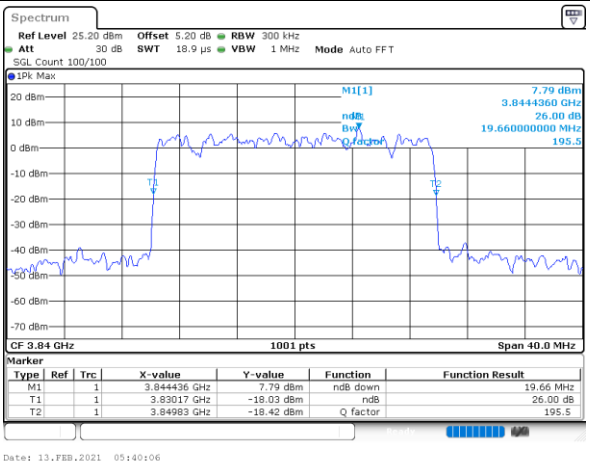
64QAM

Middle Channel



256QAM

Middle Channel



Occupied Bandwidth

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	M2				M			
BW	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	9.21	9.29	9.25	9.29	9.25	9.29	9.29	9.31

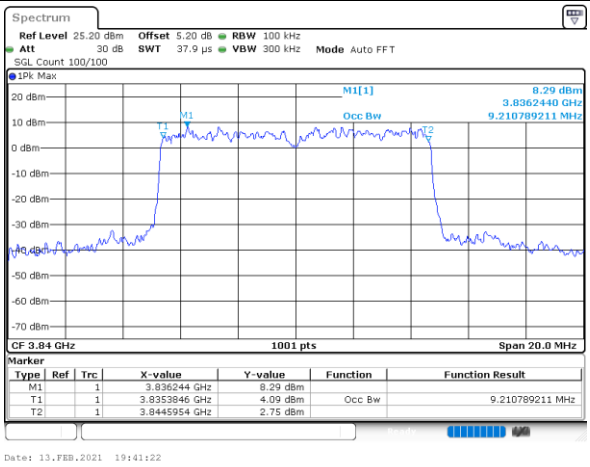
Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	M2				M			
BW	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.18	14.12	14.15	14.18	14.03	14.12	14.15	14.09

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	M2				M			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	18.98	18.94	18.86	18.90	18.86	18.98	18.98	18.86

FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M2)

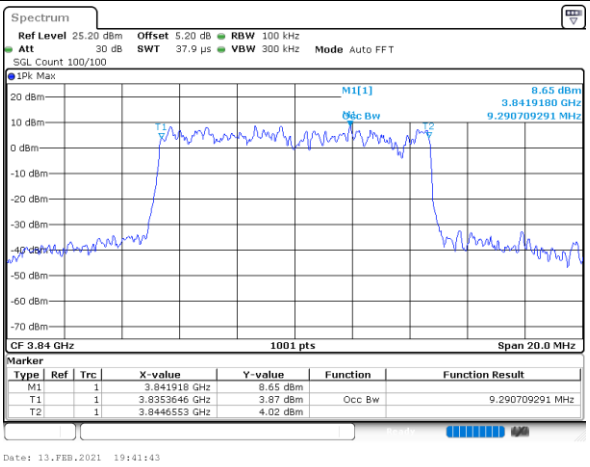
QPSK

Middle Channel



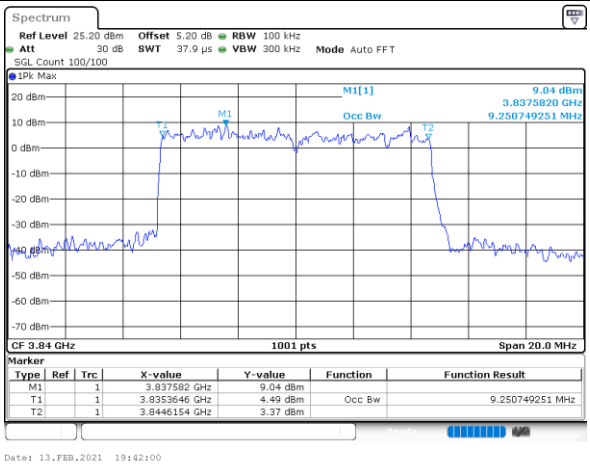
16QAM

Middle Channel



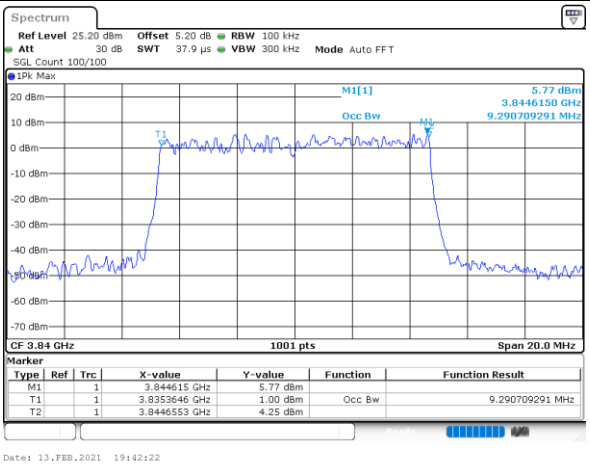
64QAM

Middle Channel



256QAM

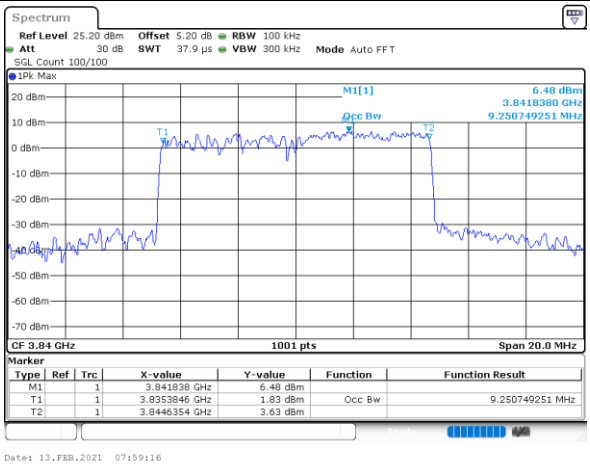
Middle Channel



FR1 UL-MIMO n77 / 10MHz / CP-OFDM (M)

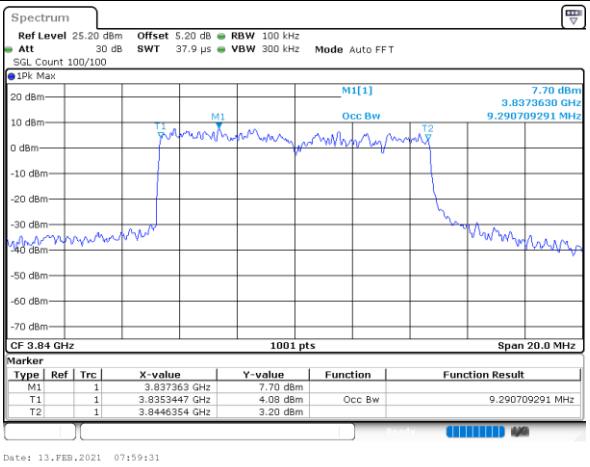
QPSK

Middle Channel



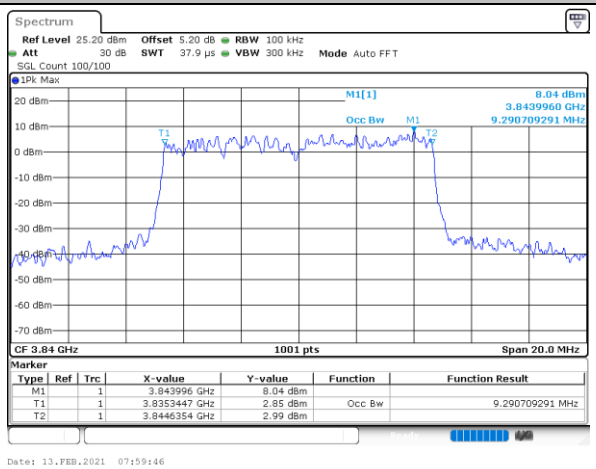
16QAM

Middle Channel



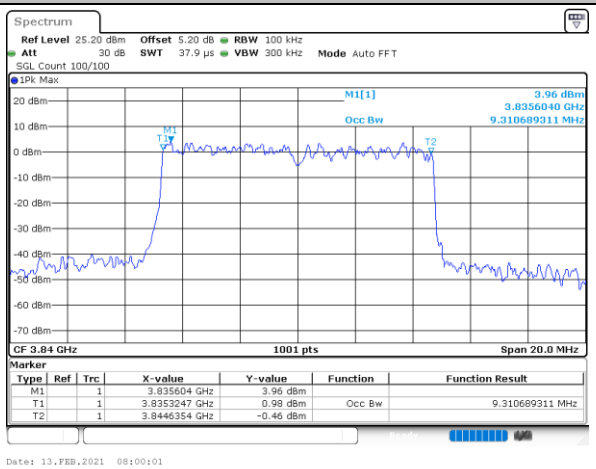
64QAM

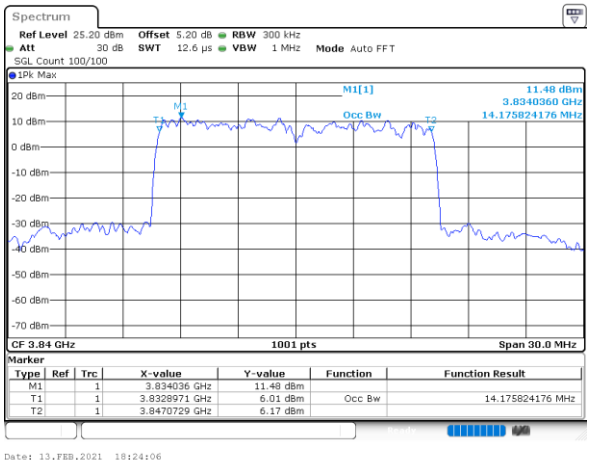
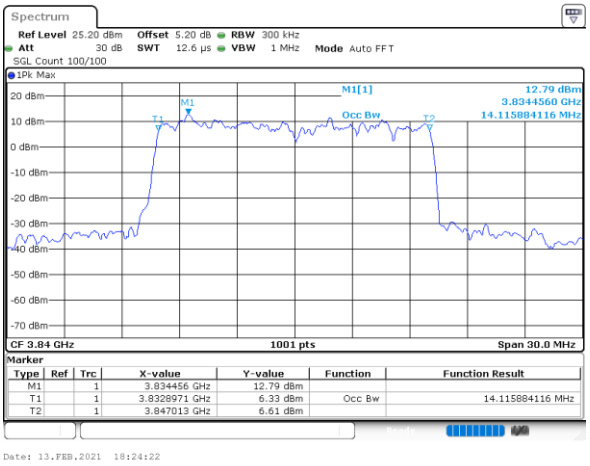
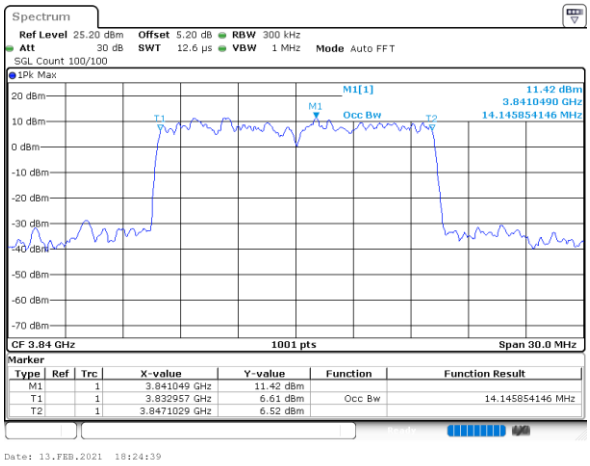
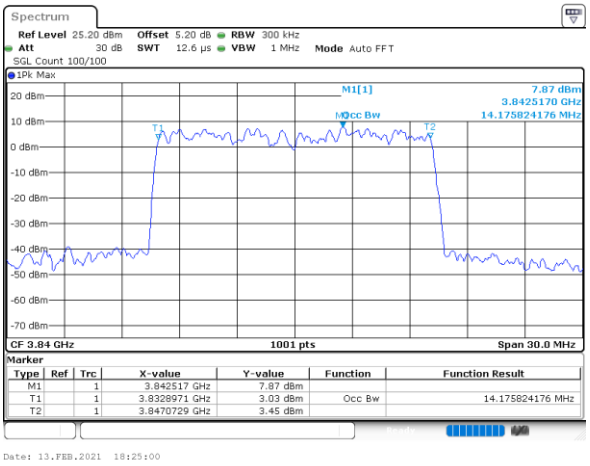
Middle Channel



256QAM

Middle Channel

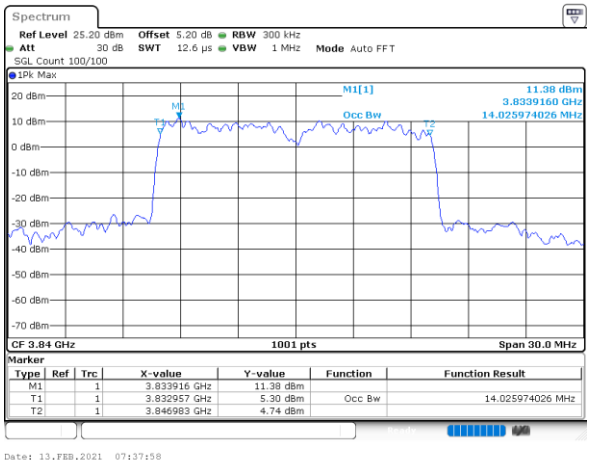


FR1 UL-MIMO n77 / 15MHz / CP-OFDM (M2)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 UL-MIMO n77 / 15MHz / CP-OFDM (M)

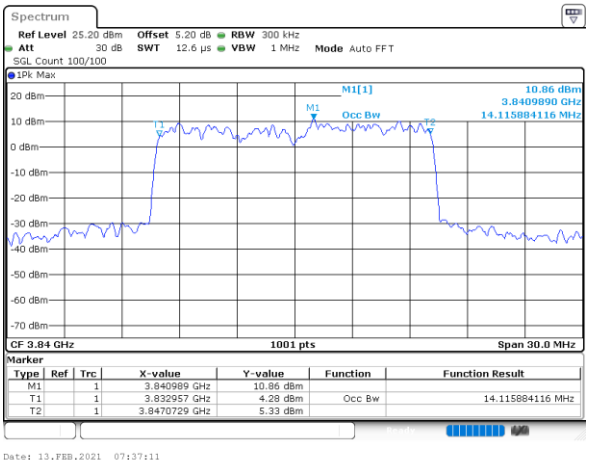
QPSK

Middle Channel



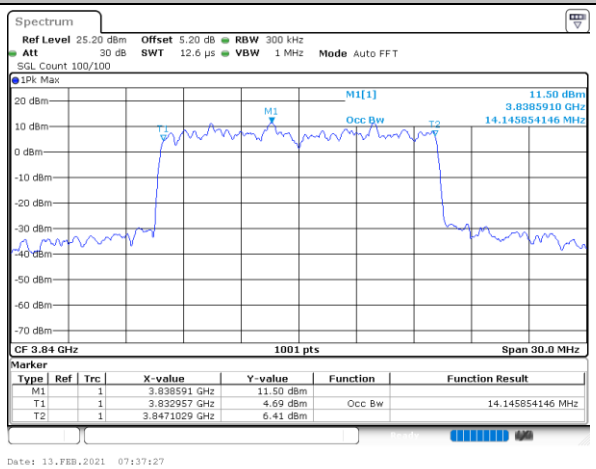
16QAM

Middle Channel



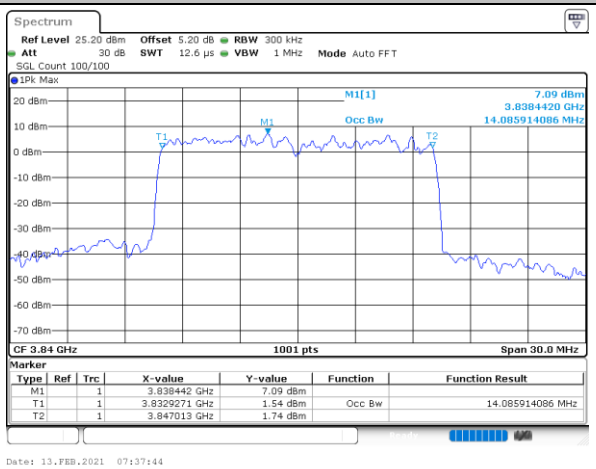
64QAM

Middle Channel



256QAM

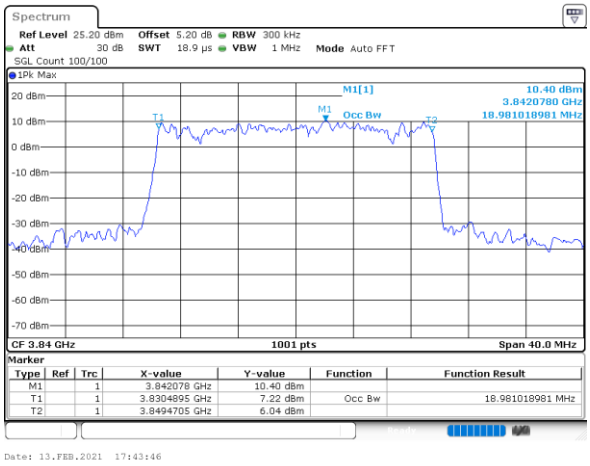
Middle Channel



FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M2)

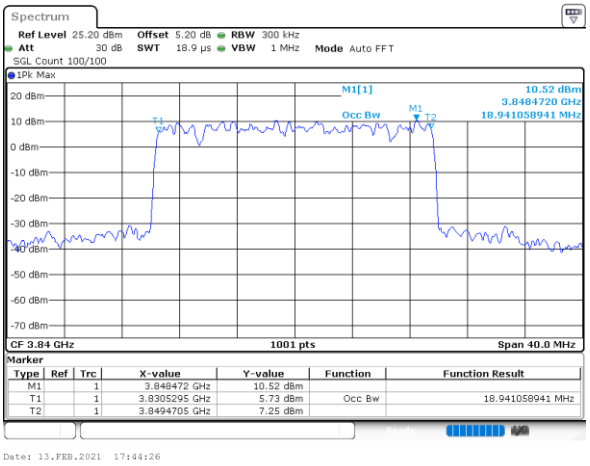
QPSK

Middle Channel



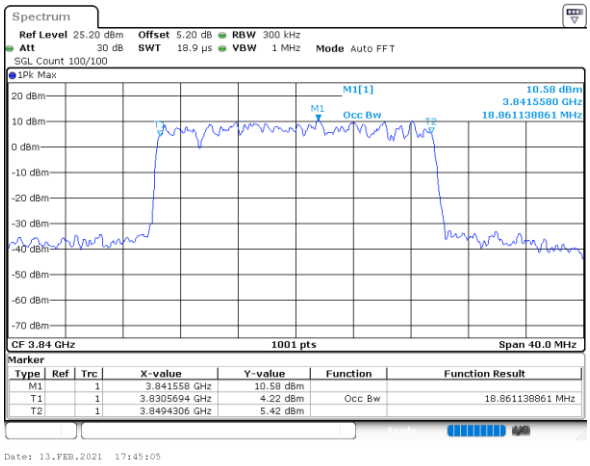
16QAM

Middle Channel



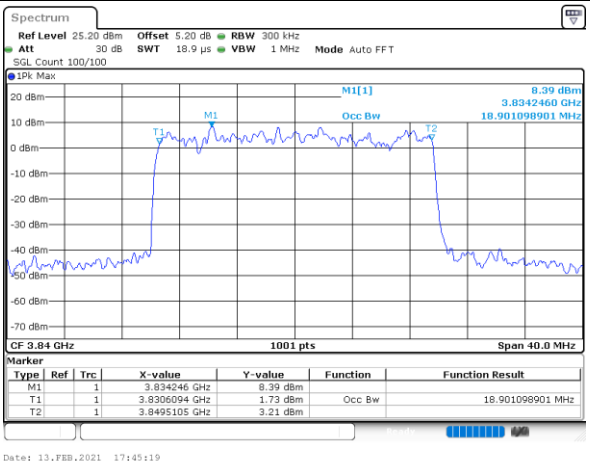
64QAM

Middle Channel



256QAM

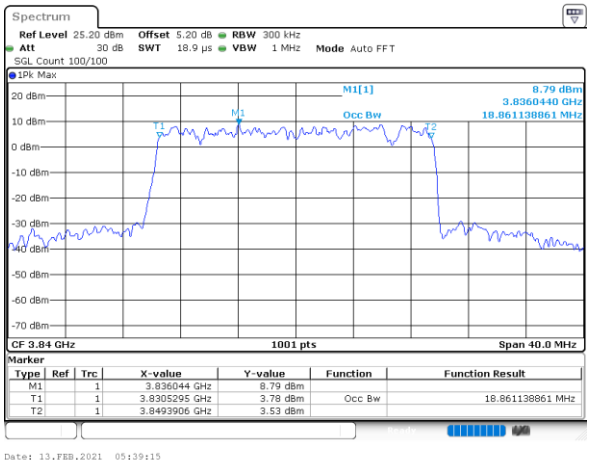
Middle Channel



FR1 UL-MIMO n77 / 20MHz / CP-OFDM (M)

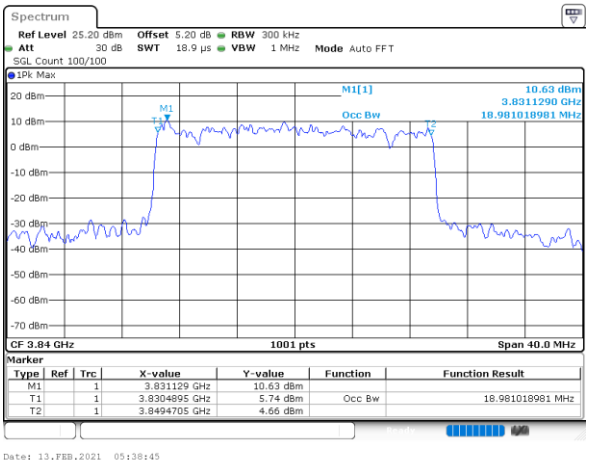
QPSK

Middle Channel



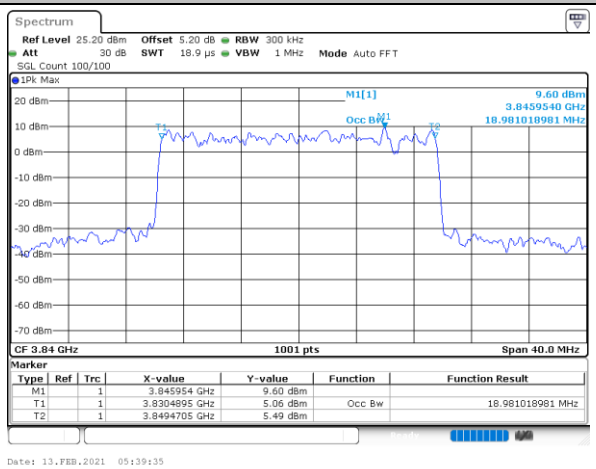
16QAM

Middle Channel



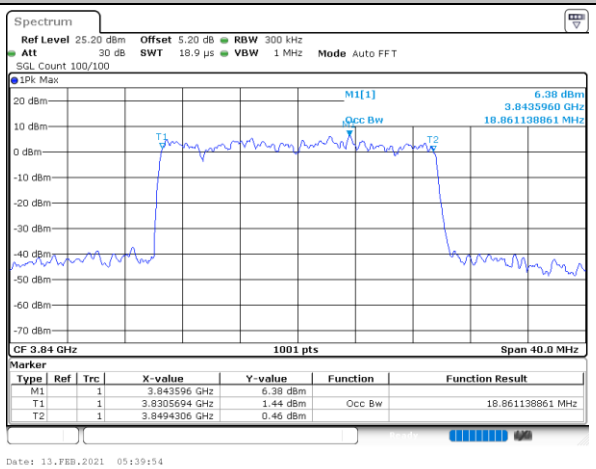
64QAM

Middle Channel

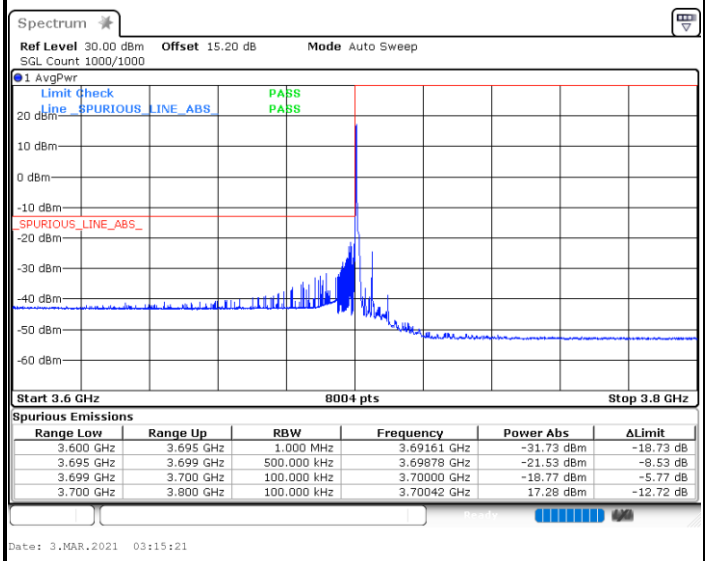
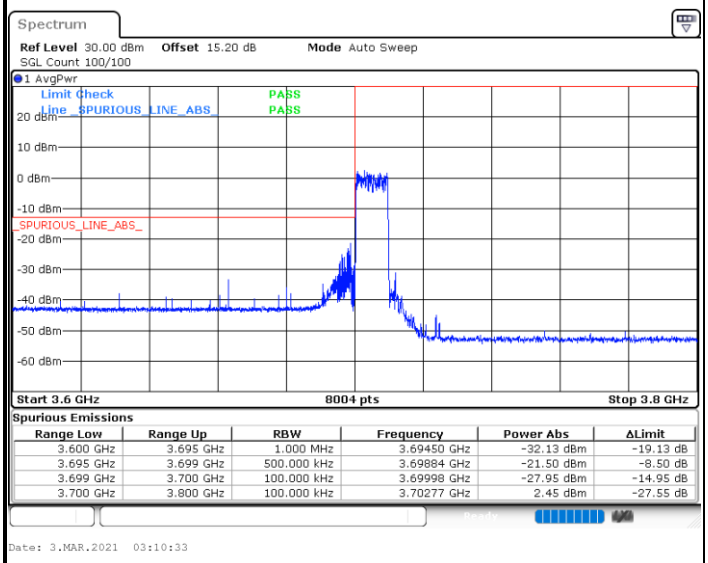


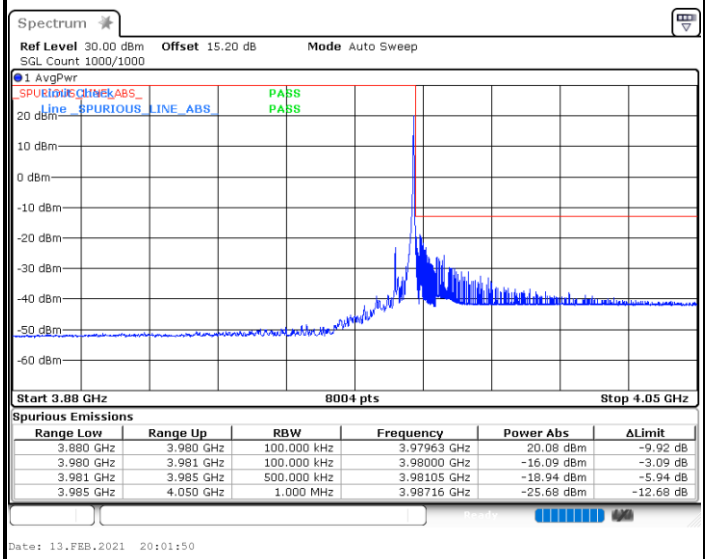
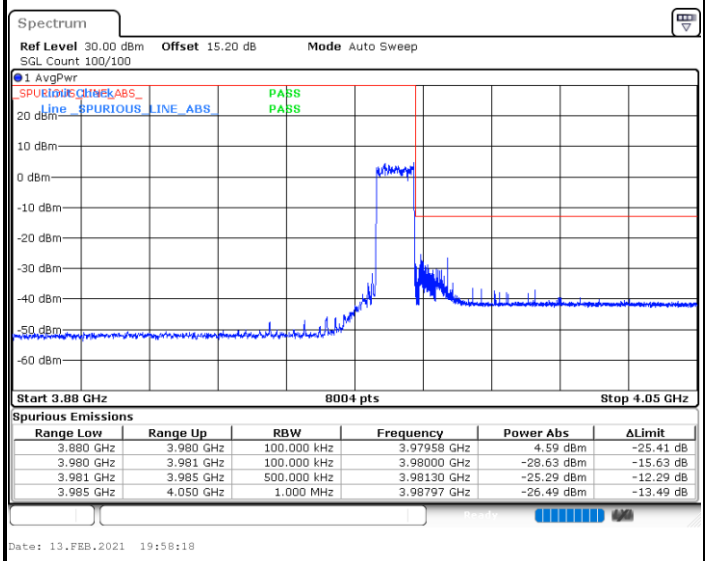
256QAM

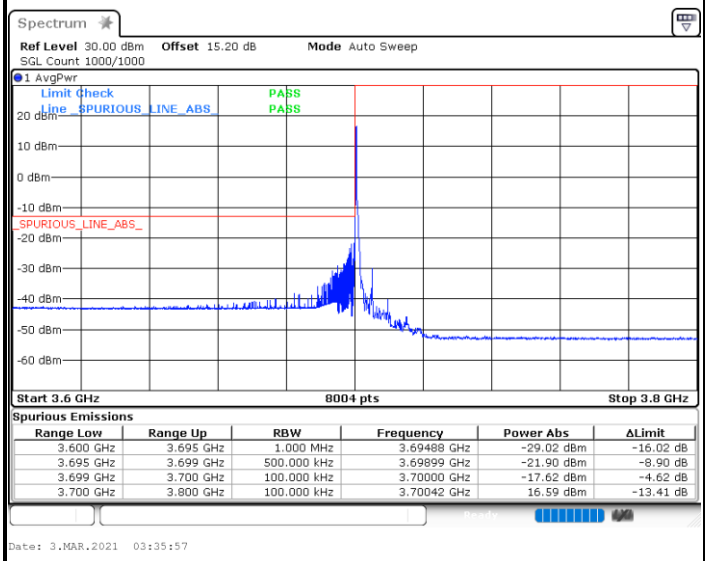
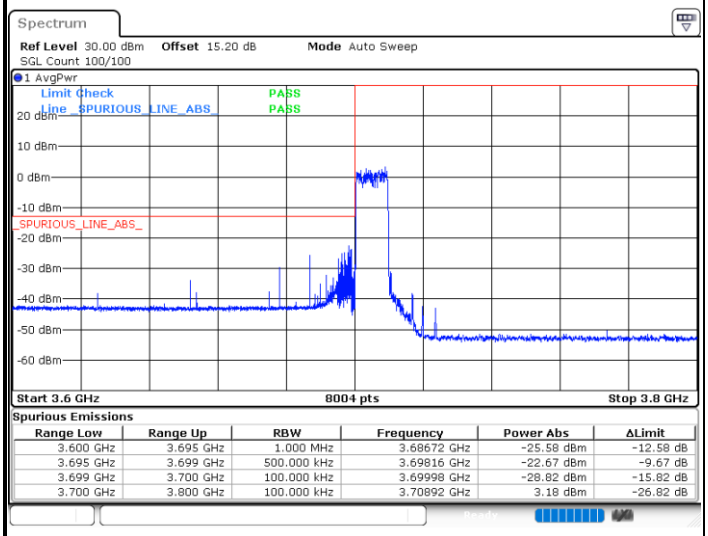
Middle Channel



Conducted Band Edge

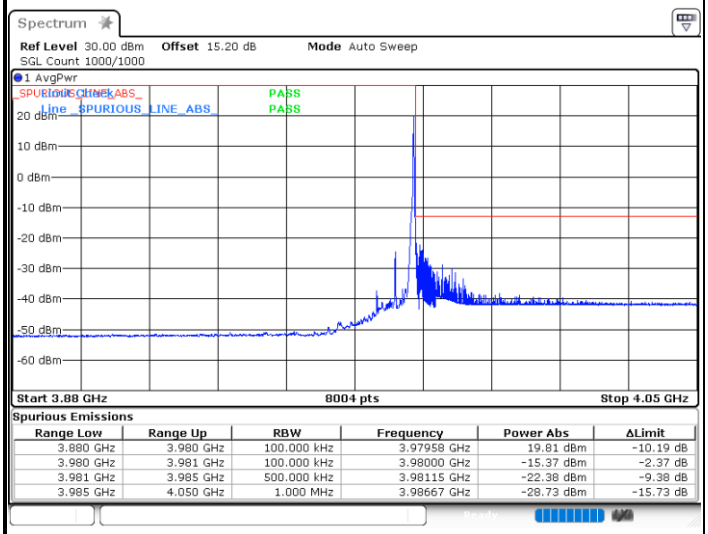
FR1 UL-MIMO n77 / 10MHz / CP-OFDM QPSK (M2)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 10MHz / CP-OFDM QPSK (M2)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 10MHz / CP-OFDM QPSK (M)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.600 GHz / 3.695 GHz / 1.000 MHz / 3.69488 GHz / -29.02 dBm / -16.02 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69899 GHz / -21.90 dBm / -8.90 dB 3.699 GHz / 3.700 GHz / 100.000 kHz / 3.70000 GHz / -17.62 dBm / -4.62 dB 3.700 GHz / 3.800 GHz / 100.000 kHz / 3.70042 GHz / 16.59 dBm / -13.41 dB Date: 3.MAR.2021 03:35:57	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.600 GHz / 3.695 GHz / 1.000 MHz / 3.68672 GHz / -25.58 dBm / -12.58 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69816 GHz / -22.67 dBm / -9.67 dB 3.699 GHz / 3.700 GHz / 100.000 kHz / 3.69998 GHz / -28.82 dBm / -15.82 dB 3.700 GHz / 3.800 GHz / 100.000 kHz / 3.70892 GHz / 3.18 dBm / -26.82 dB Date: 3.MAR.2021 03:40:34	/

FR1 UL-MIMO n77 / 10MHz / CP-OFDM QPSK (M)

Highest Band Edge / 1 RB

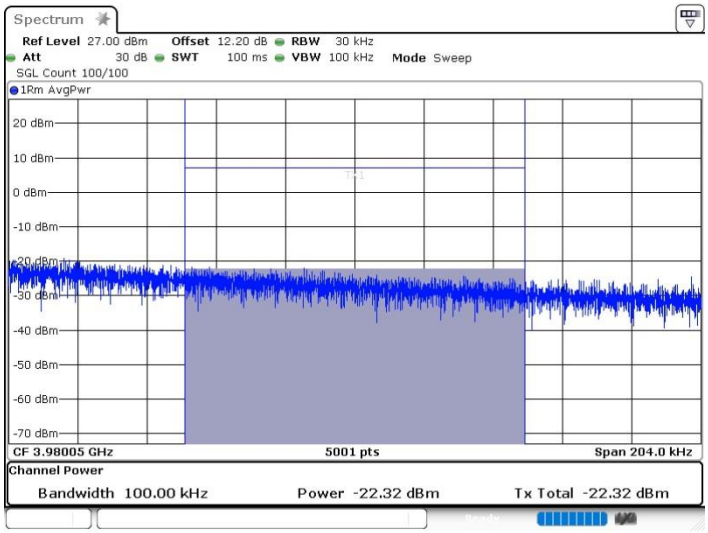


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97958 GHz	19.81 dBm	-10.19 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98000 GHz	-15.37 dBm	-2.37 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98115 GHz	-22.38 dBm	-9.38 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98667 GHz	-28.73 dBm	-15.73 dB

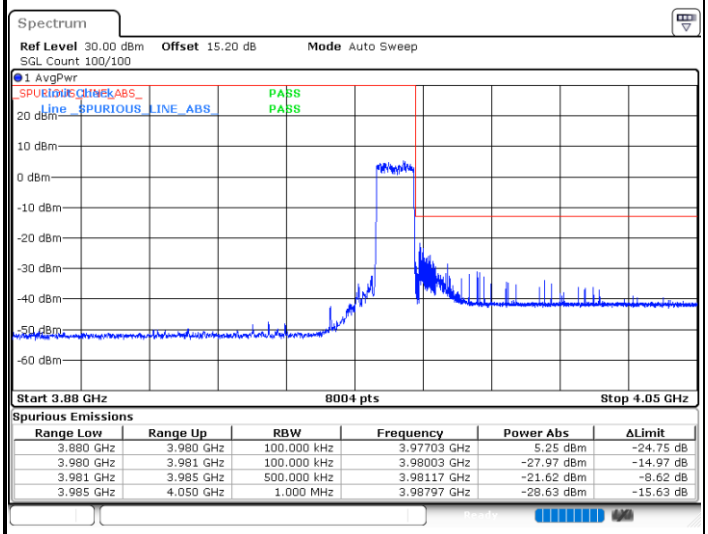
Date: 13.FEB.2021 07:55:03

Channel Power < -13dBm Pass



Date: 13.FEB.2021 07:56:44

Highest Band Edge / Full RB



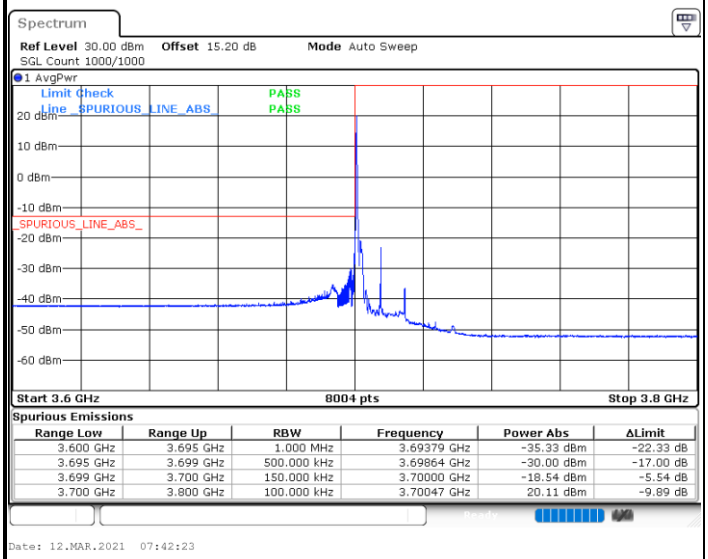
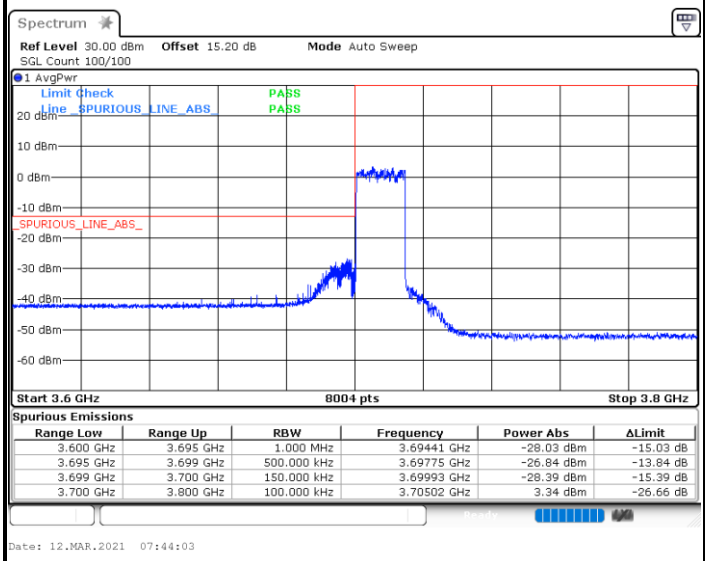
Spurious Emissions

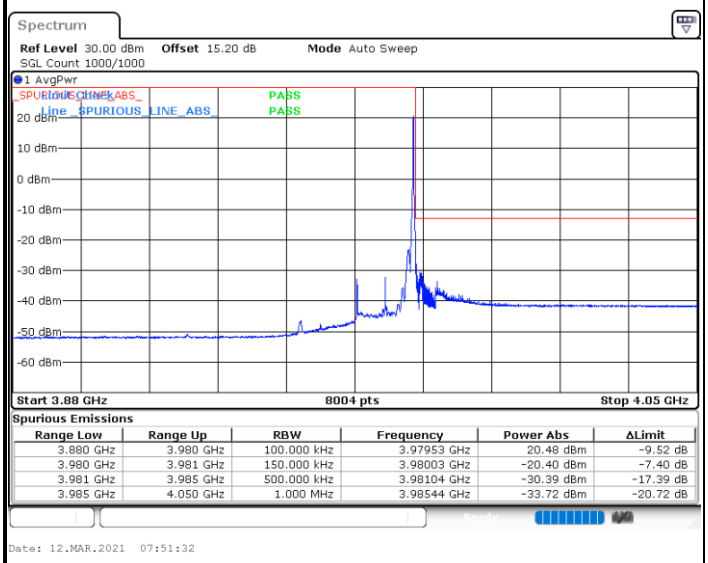
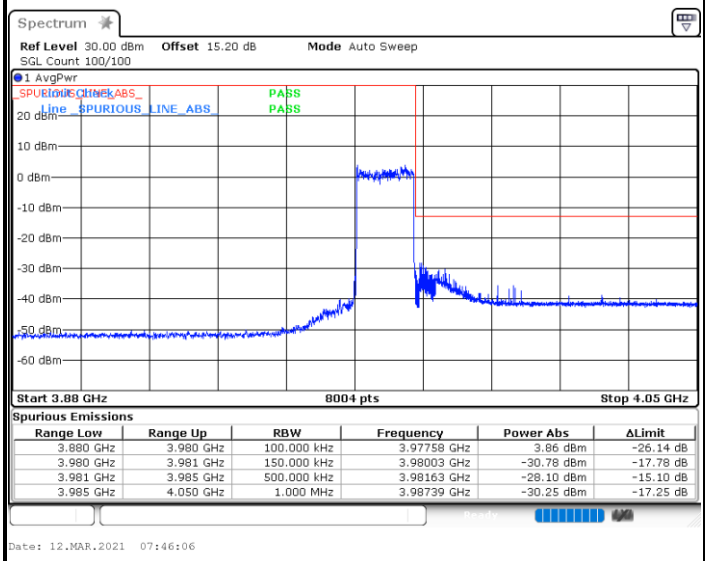
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97703 GHz	5.25 dBm	-24.75 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98003 GHz	-27.97 dBm	-14.97 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98117 GHz	-21.62 dBm	-8.62 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98797 GHz	-28.63 dBm	-15.63 dB

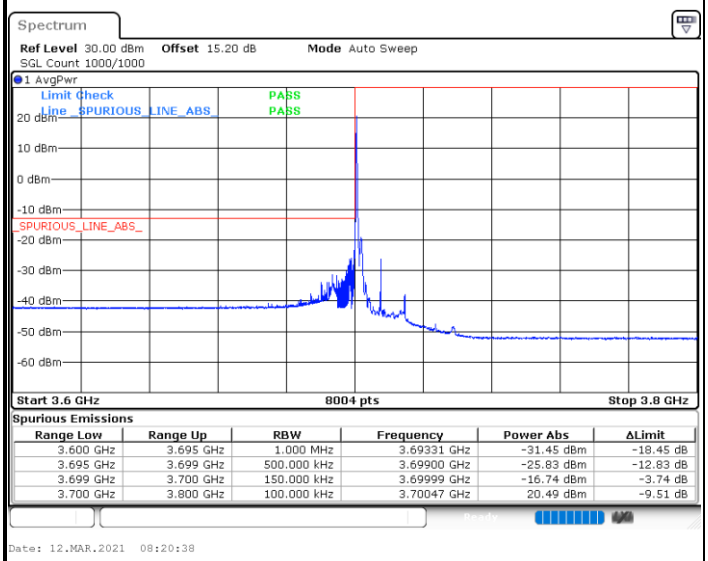
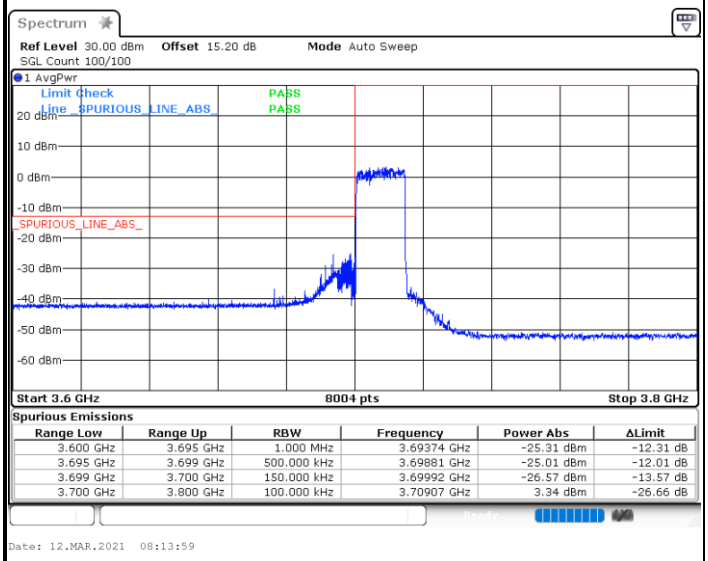
Date: 13.FEB.2021 07:57:18

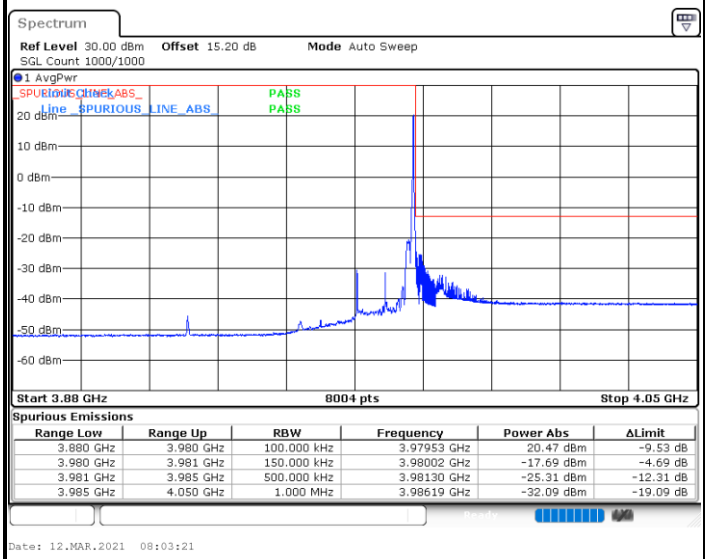
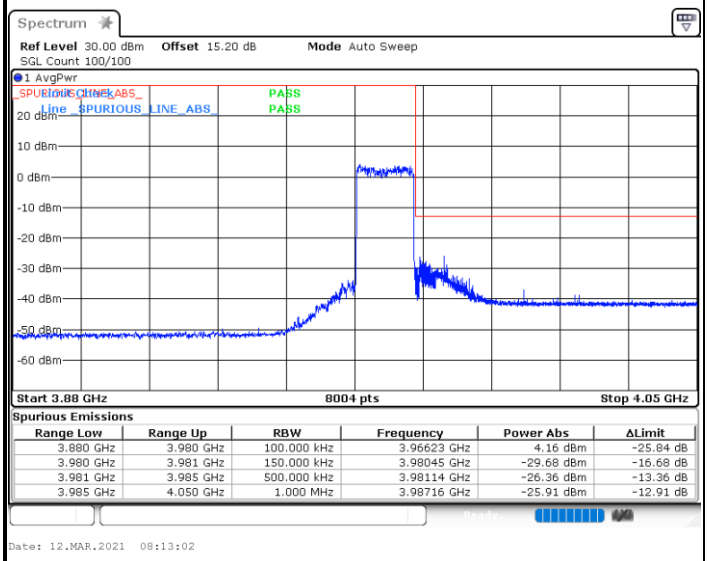
Channel Power < -13dBm Pass

/

FR1 UL-MIMO n77 / 15MHz / CP-OFDM QPSK (M2)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 15MHz / CP-OFDM QPSK (M2)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 15MHz / CP-OFDM QPSK (M)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n77 / 15MHz / CP-OFDM QPSK (M)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/