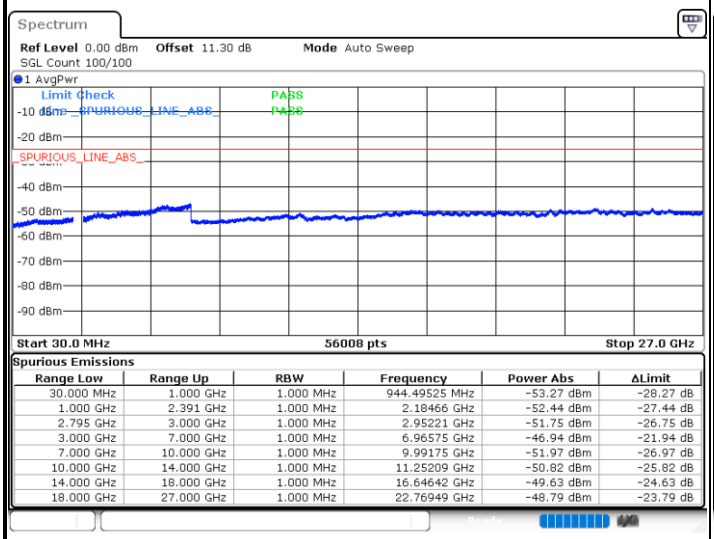
Conducted Spurious Emission

FR1 n41 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

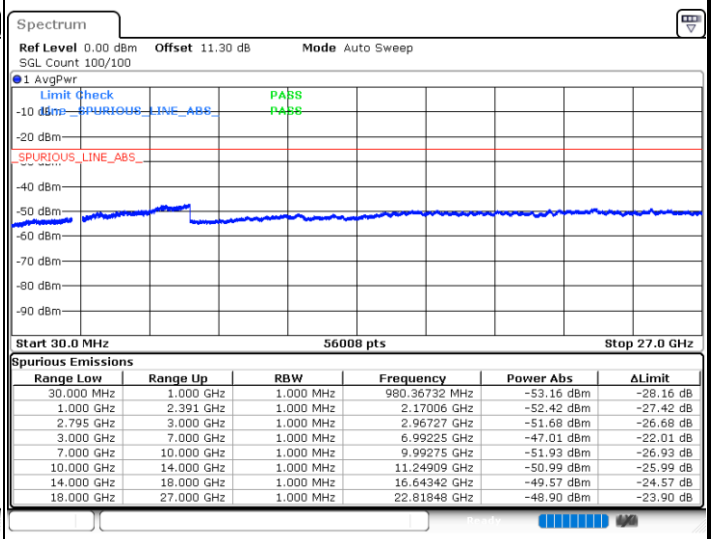


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.49525 MHz	-53.27 dBm	-28.27 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.18466 GHz	-52.44 dBm	-27.44 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95221 GHz	-51.75 dBm	-26.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96575 GHz	-46.94 dBm	-21.94 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99175 GHz	-51.97 dBm	-26.97 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25209 GHz	-50.82 dBm	-25.82 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64642 GHz	-49.63 dBm	-24.63 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.76949 GHz	-48.79 dBm	-23.79 dB

Date: 22.JAN.2021 00:16:11

Middle Channel / 1RB

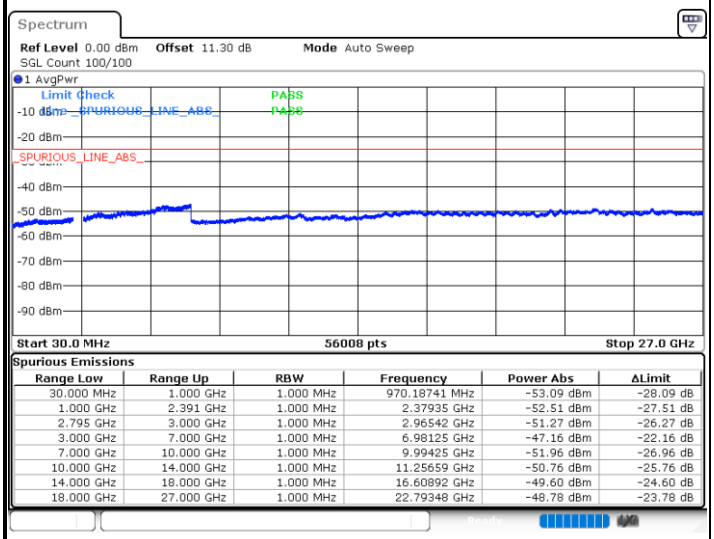


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	980.36732 MHz	-53.16 dBm	-28.16 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.17006 GHz	-52.42 dBm	-27.42 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96727 GHz	-51.68 dBm	-26.68 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99225 GHz	-47.01 dBm	-22.01 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99275 GHz	-51.93 dBm	-26.93 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24909 GHz	-50.99 dBm	-25.99 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64342 GHz	-49.57 dBm	-24.57 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.81848 GHz	-48.90 dBm	-23.90 dB

Date: 22.JAN.2021 00:19:39

Highest Channel / 1RB



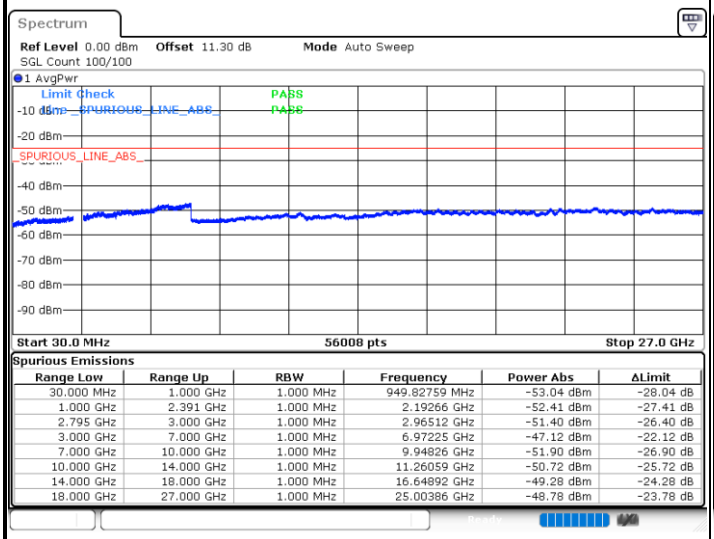
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.18741 MHz	-53.09 dBm	-28.09 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.37935 GHz	-52.51 dBm	-27.51 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96542 GHz	-51.27 dBm	-26.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98125 GHz	-47.16 dBm	-22.16 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99425 GHz	-51.96 dBm	-26.96 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25659 GHz	-50.76 dBm	-25.76 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.60892 GHz	-49.60 dBm	-24.60 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.79348 GHz	-48.78 dBm	-23.78 dB

Date: 22.JAN.2021 00:22:00

FR1 n41 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

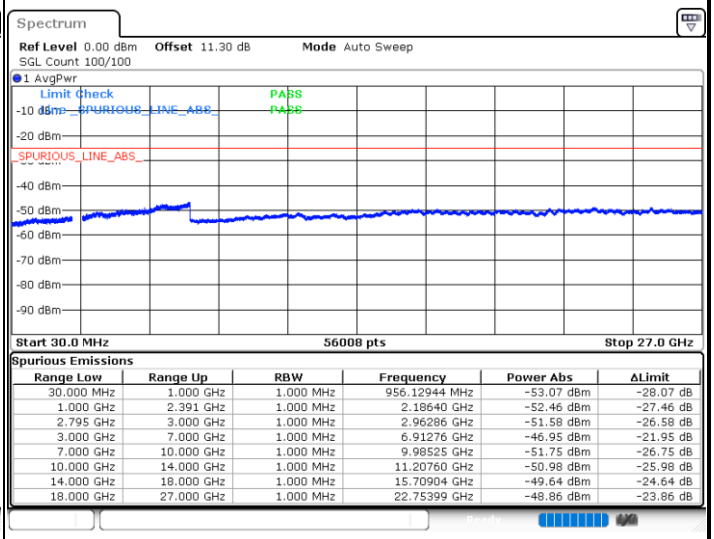


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	949.82759 MHz	-53.04 dBm	-28.04 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.19266 GHz	-52.41 dBm	-27.41 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96512 GHz	-51.40 dBm	-26.40 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97225 GHz	-47.12 dBm	-22.12 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94826 GHz	-51.90 dBm	-26.90 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.26059 GHz	-50.72 dBm	-25.72 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64892 GHz	-49.28 dBm	-24.28 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.00386 GHz	-48.78 dBm	-23.78 dB

Date: 22.JAN.2021 00:17:08

Middle Channel / 1RB

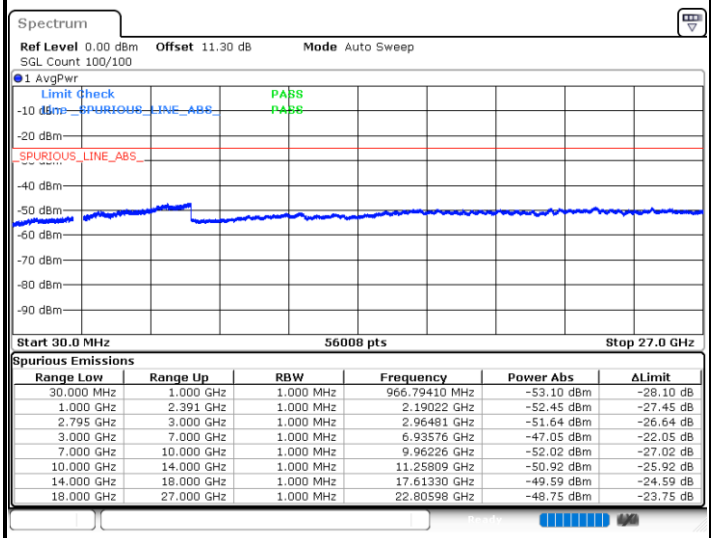


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.12944 MHz	-53.07 dBm	-28.07 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.18640 GHz	-52.46 dBm	-27.46 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96286 GHz	-51.58 dBm	-26.58 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91276 GHz	-46.95 dBm	-21.95 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98525 GHz	-51.75 dBm	-26.75 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.20760 GHz	-50.98 dBm	-25.98 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.70904 GHz	-49.64 dBm	-24.64 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.75399 GHz	-48.86 dBm	-23.86 dB

Date: 22.JAN.2021 00:18:27

Highest Channel / 1RB



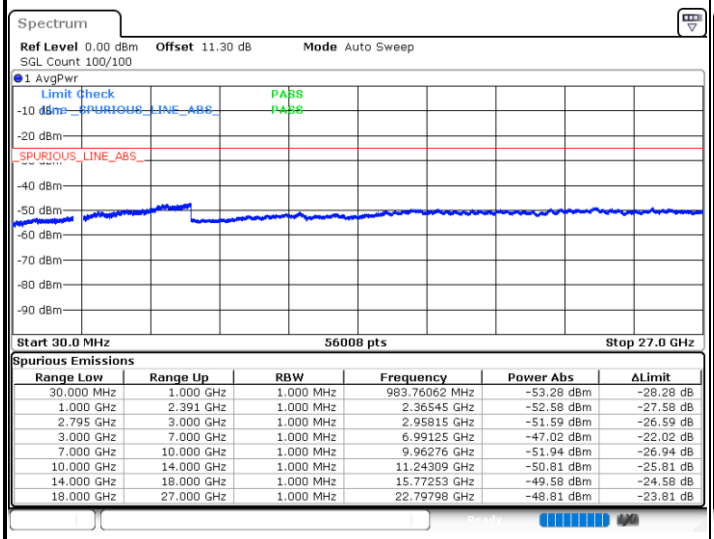
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.79410 MHz	-53.10 dBm	-28.10 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.19022 GHz	-52.45 dBm	-27.45 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96481 GHz	-51.64 dBm	-26.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93576 GHz	-47.05 dBm	-22.05 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96226 GHz	-52.02 dBm	-27.02 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25809 GHz	-50.92 dBm	-25.92 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.61330 GHz	-49.59 dBm	-24.59 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.80598 GHz	-48.75 dBm	-23.75 dB

Date: 22.JAN.2021 00:23:55

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

Lowest Channel / 1RB

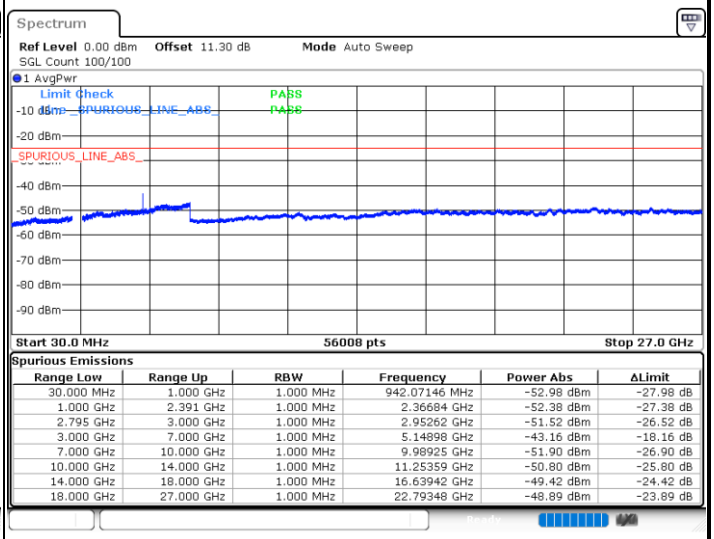


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.76062 MHz	-53.28 dBm	-28.28 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.36545 GHz	-52.58 dBm	-27.58 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95815 GHz	-51.59 dBm	-26.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-47.02 dBm	-22.02 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96276 GHz	-51.94 dBm	-26.94 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.24309 GHz	-50.81 dBm	-25.81 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.77253 GHz	-49.58 dBm	-24.58 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.79798 GHz	-48.81 dBm	-23.81 dB

Date: 21.JAN.2021 23:24:42

Middle Channel / 1RB

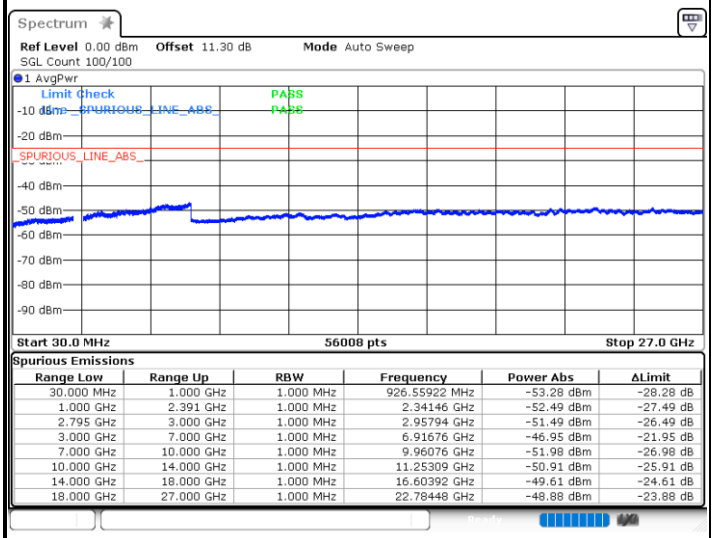


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.07146 MHz	-52.98 dBm	-27.98 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.36684 GHz	-52.38 dBm	-27.38 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95262 GHz	-51.52 dBm	-26.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.14898 GHz	-43.16 dBm	-18.16 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98925 GHz	-51.90 dBm	-26.90 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25359 GHz	-50.80 dBm	-25.80 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.63942 GHz	-49.42 dBm	-24.42 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.79348 GHz	-48.89 dBm	-23.89 dB

Date: 21.JAN.2021 22:52:24

Highest Channel / 1RB



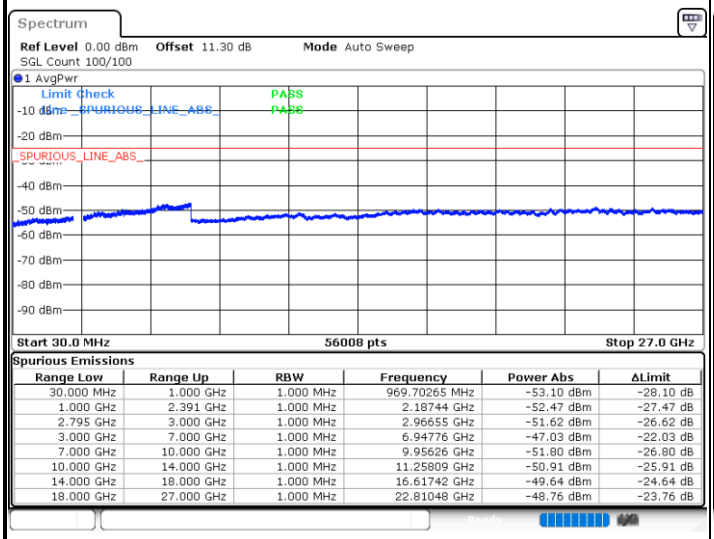
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	926.55922 MHz	-53.28 dBm	-28.28 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.34146 GHz	-52.49 dBm	-27.49 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95794 GHz	-51.49 dBm	-26.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91676 GHz	-46.95 dBm	-21.95 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96076 GHz	-51.98 dBm	-26.98 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25309 GHz	-50.91 dBm	-25.91 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.60392 GHz	-49.61 dBm	-24.61 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.78448 GHz	-48.88 dBm	-23.88 dB

Date: 21.JAN.2021 23:20:07

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

Lowest Channel / 1RB

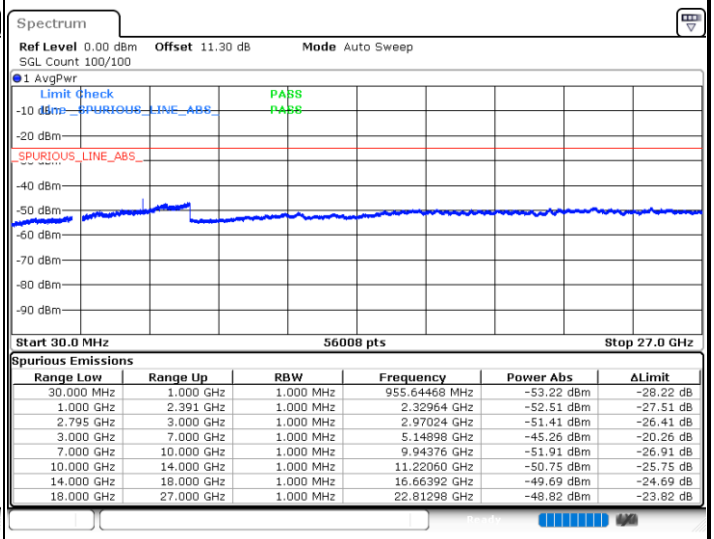


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-53.10 dBm	-28.10 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.18744 GHz	-52.47 dBm	-27.47 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96655 GHz	-51.62 dBm	-26.62 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94776 GHz	-47.03 dBm	-22.03 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95626 GHz	-51.80 dBm	-26.80 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25809 GHz	-50.91 dBm	-25.91 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.61742 GHz	-49.64 dBm	-24.64 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.81048 GHz	-48.76 dBm	-23.76 dB

Date: 21.JAN.2021 23:22:32

Middle Channel / 1RB

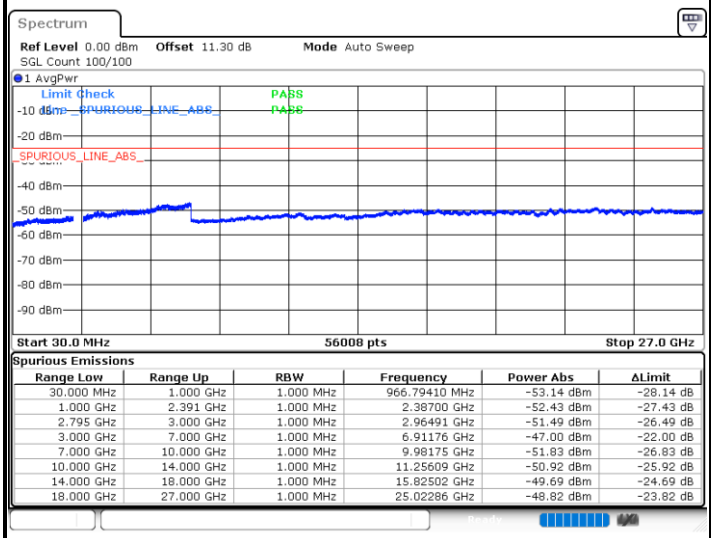


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	955.64468 MHz	-53.22 dBm	-28.22 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.32964 GHz	-52.51 dBm	-27.51 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97024 GHz	-51.41 dBm	-26.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.14898 GHz	-45.26 dBm	-20.26 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94376 GHz	-51.91 dBm	-26.91 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.22060 GHz	-50.75 dBm	-25.75 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.66392 GHz	-49.69 dBm	-24.69 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.81298 GHz	-48.82 dBm	-23.82 dB

Date: 21.JAN.2021 22:40:12

Highest Channel / 1RB



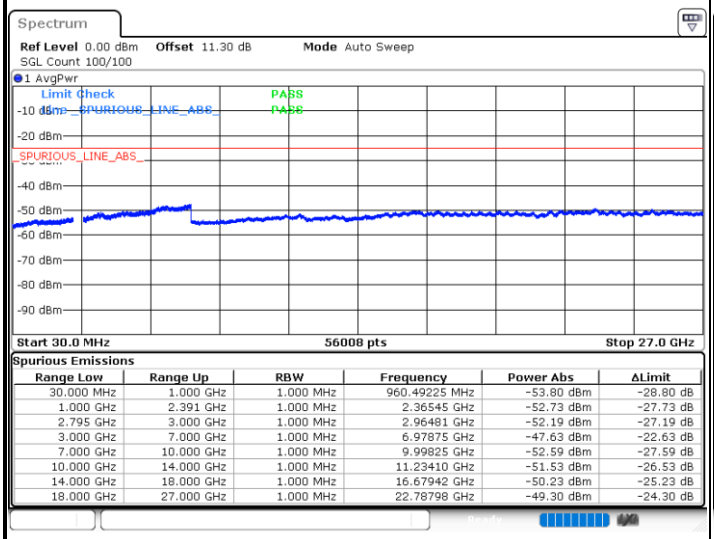
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.79410 MHz	-53.14 dBm	-28.14 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.38700 GHz	-52.43 dBm	-27.43 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96491 GHz	-51.49 dBm	-26.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91176 GHz	-47.00 dBm	-22.00 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98175 GHz	-51.83 dBm	-26.83 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25609 GHz	-50.92 dBm	-25.92 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.82502 GHz	-49.69 dBm	-24.69 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.02286 GHz	-48.82 dBm	-23.82 dB

Date: 21.JAN.2021 23:21:07

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

Lowest Channel / 1RB

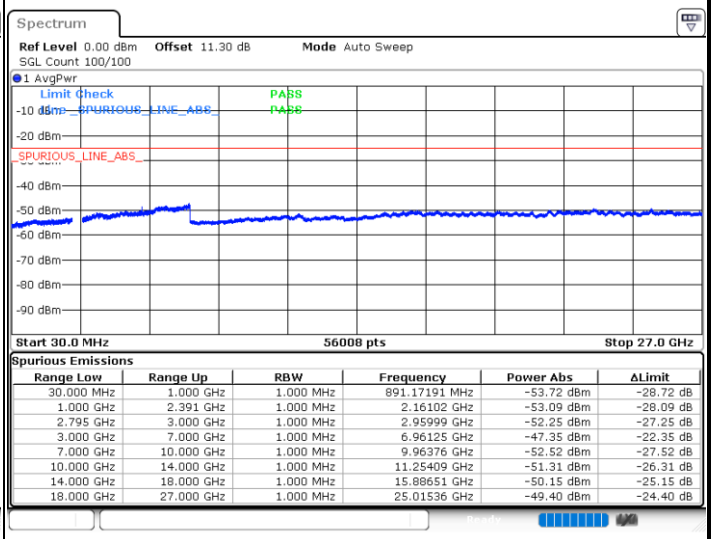


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.49225 MHz	-53.80 dBm	-28.80 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.36545 GHz	-52.73 dBm	-27.73 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96481 GHz	-52.19 dBm	-27.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97875 GHz	-47.63 dBm	-22.63 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99825 GHz	-52.59 dBm	-27.59 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.23410 GHz	-51.53 dBm	-26.53 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.67942 GHz	-50.23 dBm	-25.23 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.78798 GHz	-49.30 dBm	-24.30 dB

Date: 15.JAN.2021 03:13:20

Middle Channel / 1RB

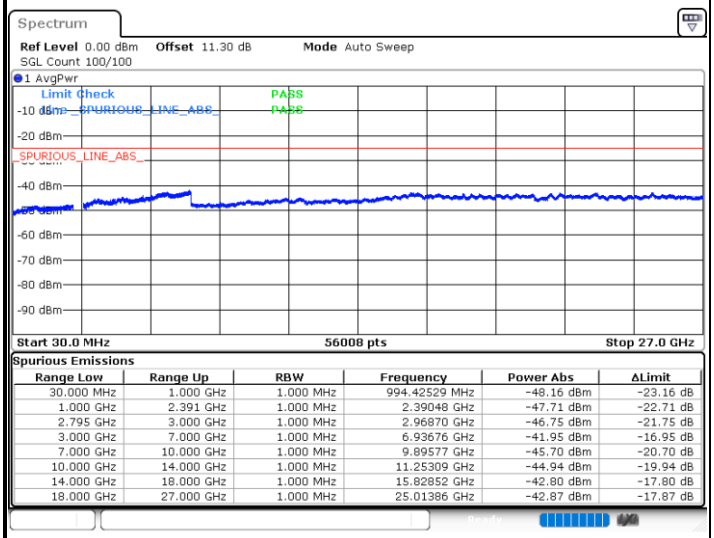


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	891.17191 MHz	-53.72 dBm	-28.72 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.16102 GHz	-53.09 dBm	-28.09 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.95999 GHz	-52.25 dBm	-27.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96125 GHz	-47.35 dBm	-22.35 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96376 GHz	-52.52 dBm	-27.52 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25409 GHz	-51.31 dBm	-26.31 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.88651 GHz	-50.15 dBm	-25.15 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.01536 GHz	-49.40 dBm	-24.40 dB

Date: 15.JAN.2021 03:02:38

Highest Channel / 1RB



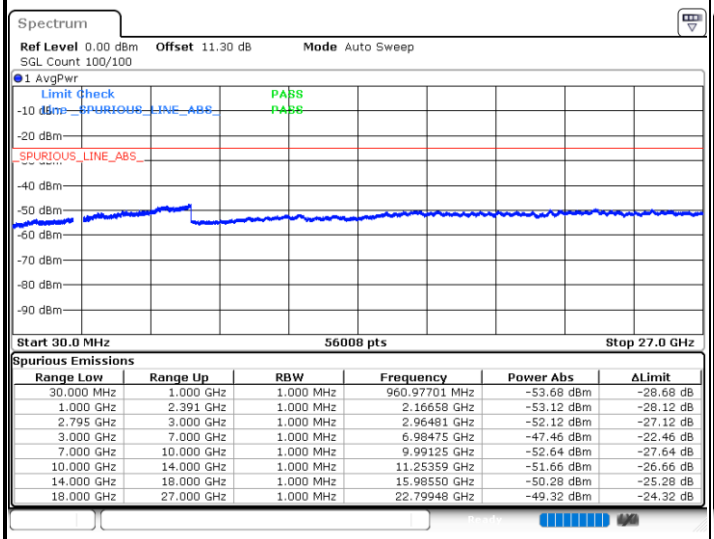
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-48.16 dBm	-23.16 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.39048 GHz	-47.71 dBm	-22.71 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96870 GHz	-46.75 dBm	-21.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93676 GHz	-41.95 dBm	-16.95 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89577 GHz	-45.70 dBm	-20.70 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25309 GHz	-44.94 dBm	-19.94 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.82852 GHz	-42.80 dBm	-17.80 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.01386 GHz	-42.87 dBm	-17.87 dB

Date: 21.JAN.2021 17:48:09

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

Lowest Channel / 1RB

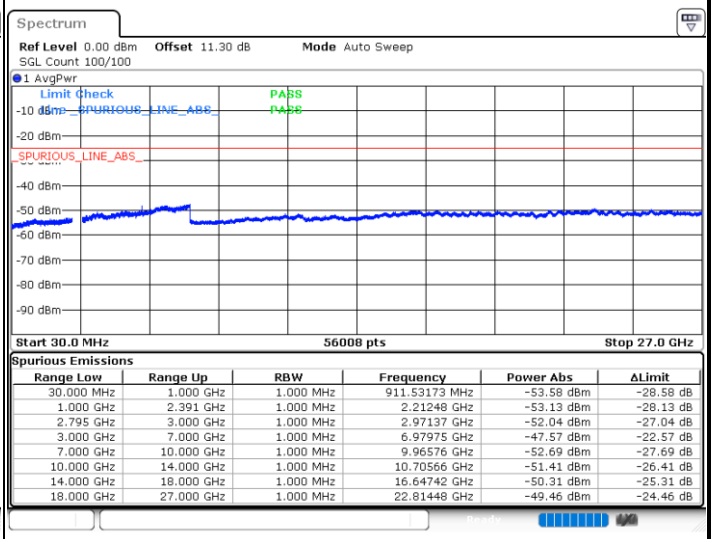


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.97701 MHz	-53.68 dBm	-28.68 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.16658 GHz	-53.12 dBm	-28.12 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.96481 GHz	-52.12 dBm	-27.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98475 GHz	-47.46 dBm	-22.46 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99125 GHz	-52.64 dBm	-27.64 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25359 GHz	-51.66 dBm	-26.66 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.98550 GHz	-50.28 dBm	-25.28 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.79948 GHz	-49.32 dBm	-24.32 dB

Date: 15.JAN.2021 03:09:47

Middle Channel / 1RB

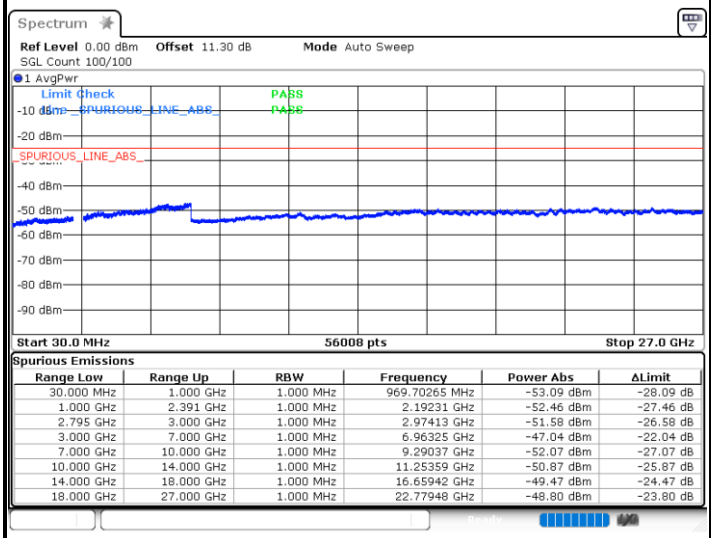


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	911.53173 MHz	-53.58 dBm	-28.58 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.21248 GHz	-53.13 dBm	-28.13 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97137 GHz	-52.04 dBm	-27.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97975 GHz	-47.57 dBm	-22.57 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96576 GHz	-52.69 dBm	-27.69 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.70566 GHz	-51.41 dBm	-26.41 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64742 GHz	-50.31 dBm	-25.31 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.81448 GHz	-49.46 dBm	-24.46 dB

Date: 15.JAN.2021 03:07:05

Highest 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	-53.09 dBm	-28.09 dB
1.000 GHz	2.391 GHz	1.000 MHz	2.19231 GHz	-52.46 dBm	-27.46 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.97413 GHz	-51.58 dBm	-26.58 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96325 GHz	-47.04 dBm	-22.04 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.29037 GHz	-52.07 dBm	-27.07 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.25359 GHz	-50.87 dBm	-25.87 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.65942 GHz	-49.47 dBm	-24.47 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.77948 GHz	-48.80 dBm	-23.80 dB

Date: 21.JAN.2021 17:46:32

Frequency Stability

Test Conditions		NR n41 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0033	

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 n41 UL_MIMO HPUE -SCS 15K

Peak-to-Average Ratio

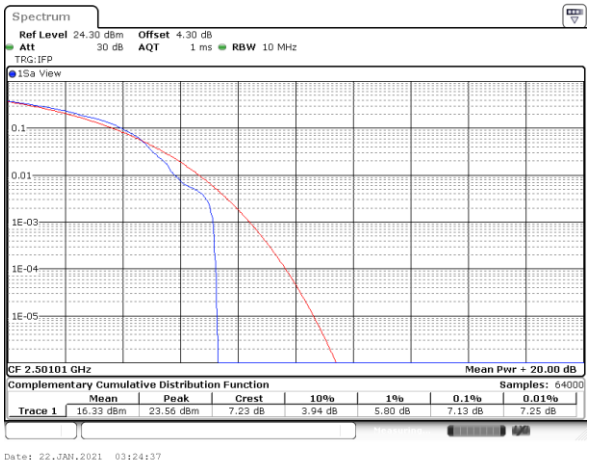
Mode	FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M2)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.13	8.7			PASS
Middle CH	7.04	8.7			
Highest CH	7.19	8.2			

Mode	FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.22	8.55			PASS
Middle CH	7.33	8.67			
Highest CH	7.19	8.64			

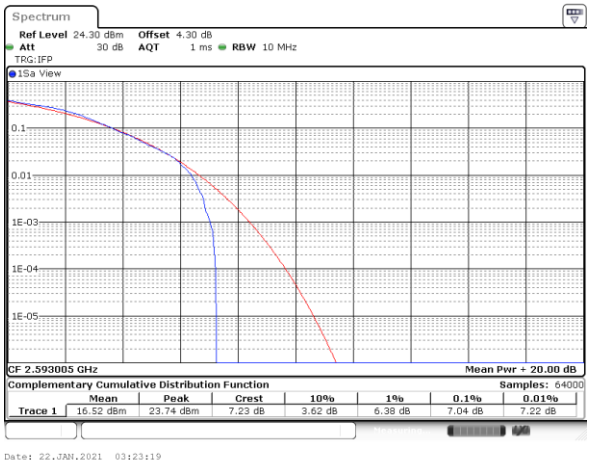
FR1 UL-MIMO n41 / 20MHz / CP-OFDM

QPSK(M2)

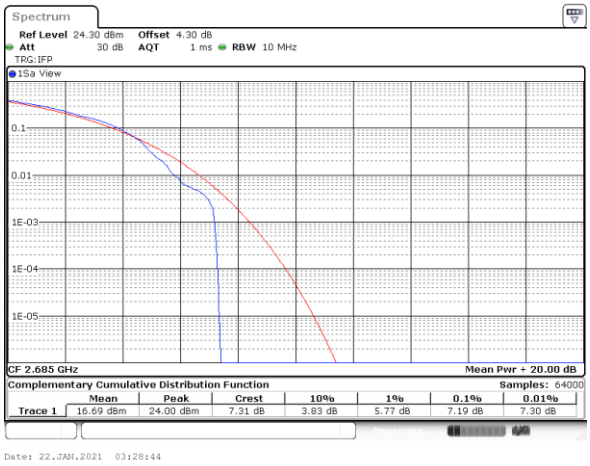
Lowest Channel / 1RB



Middle Channel / 1 RB

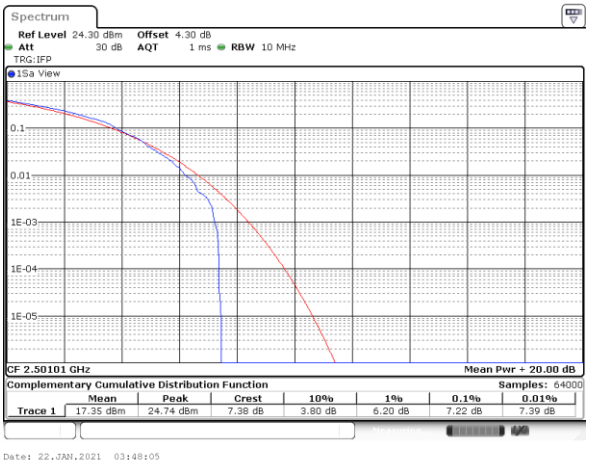


Highest Channel / 1 RB

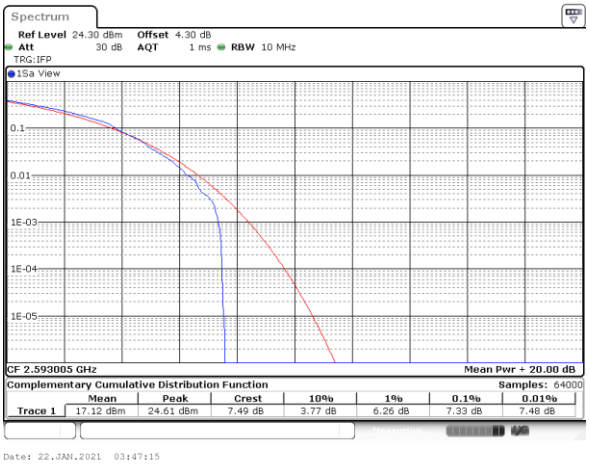


QPSK(M)

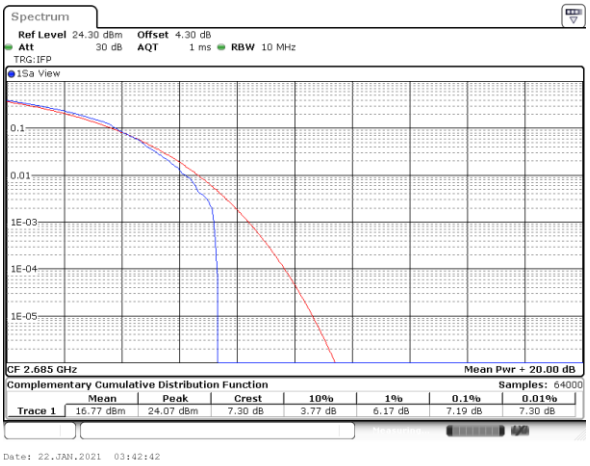
Lowest Channel / 1RB

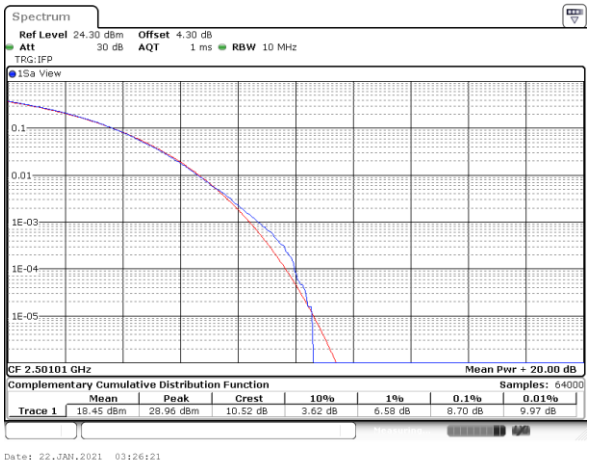
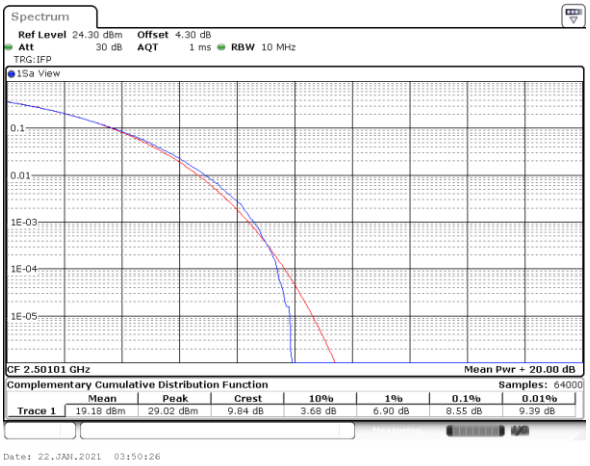
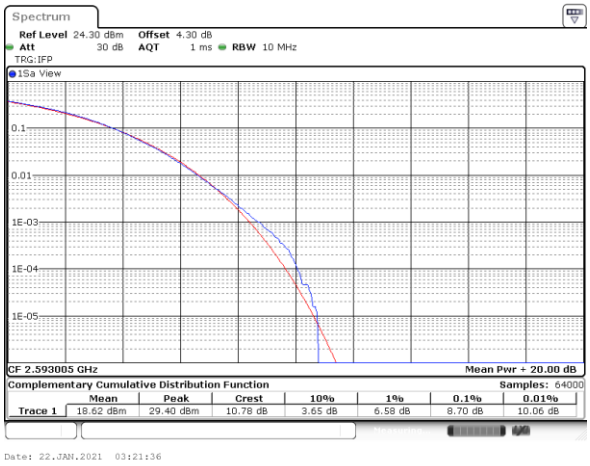
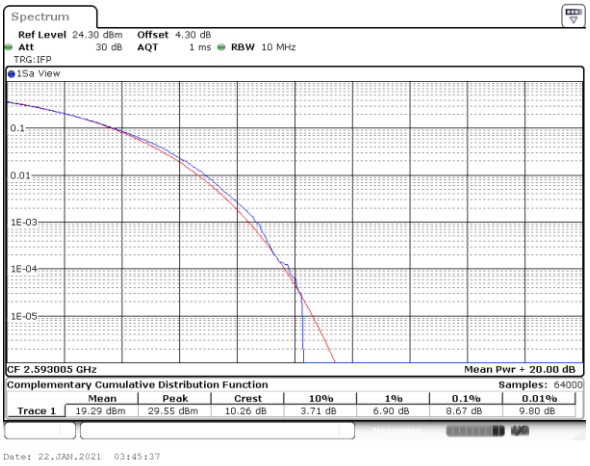
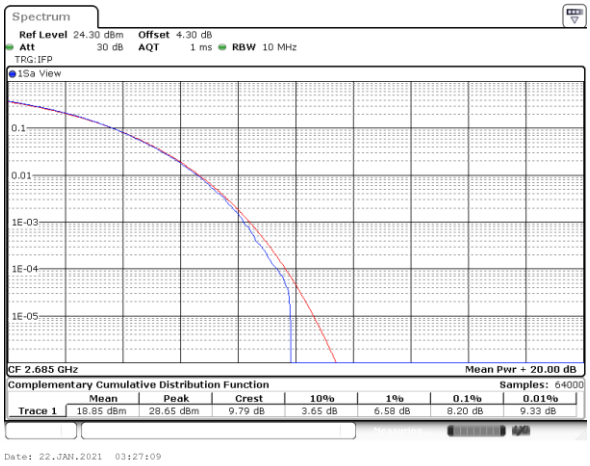
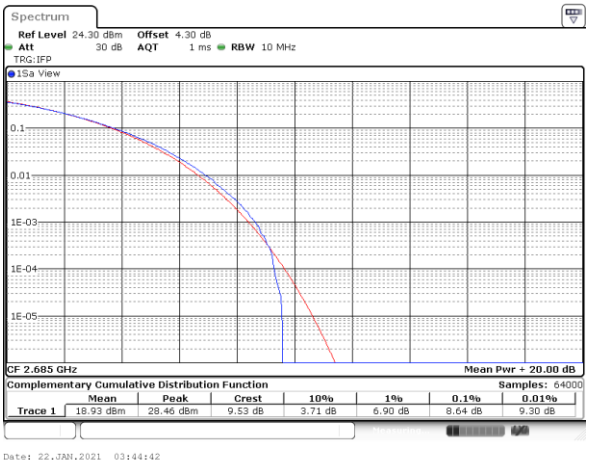


Middle Channel / 1 RB



Highest Channel / 1 RB



FR1 UL-MIMO n41 / 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 n41 : 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	9.63	9.79	9.69	9.69	9.71	9.67	9.63	9.67

Mode	FR1 UL-MIMO n41 : 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	14.87	14.93	14.84	14.81	14.84	14.93	14.93	14.87

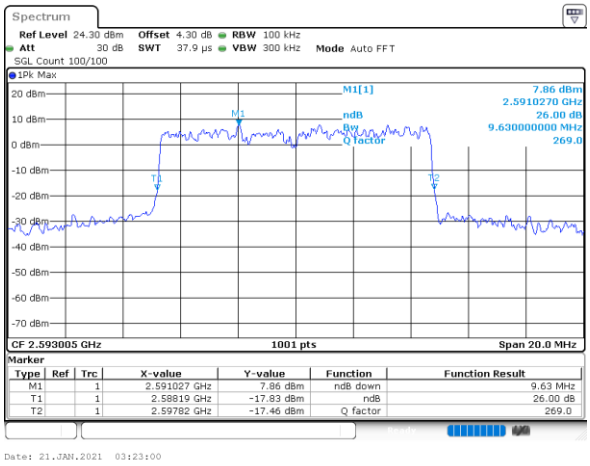
Mode	FR1 UL-MIMO n41 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	30MHz	30MHz	30MHz	30MHz	30MHz	30MHz	30MHz	30MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	29.37	29.43	29.37	29.43	29.37	29.43	29.43	29.37

Mode	FR1 UL-MIMO n41 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	41.08	40.84	40.92	40.92	40.84	40.84	40.92	41.08

FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M2)

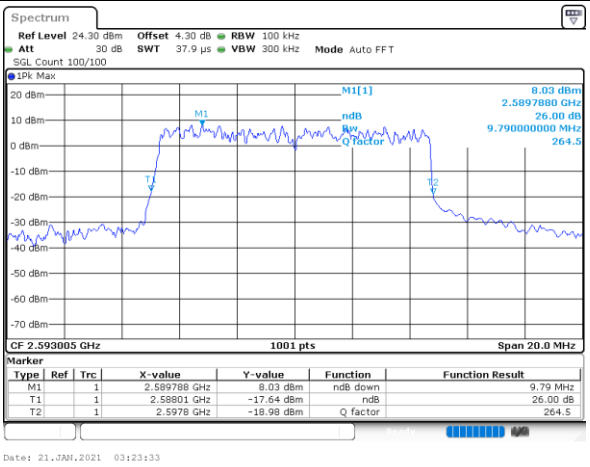
QPSK

Middle Channel



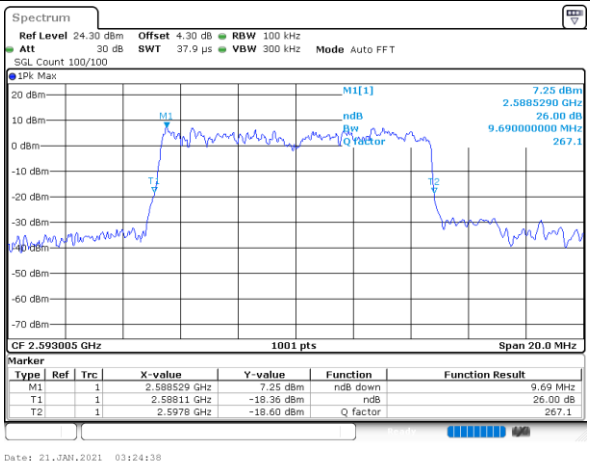
16QAM

Middle Channel



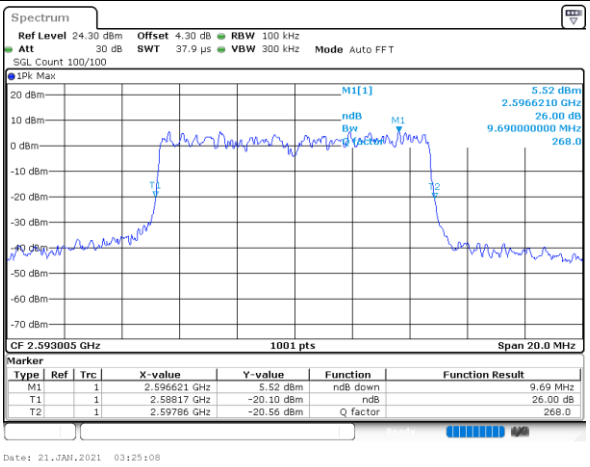
64QAM

Middle Channel



256QAM

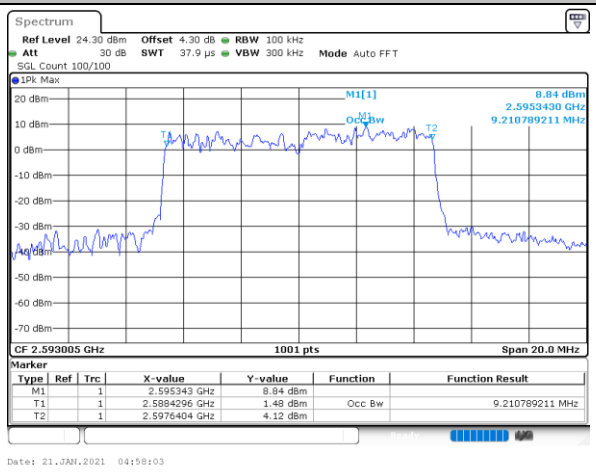
Middle Channel



FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M)

QPSK

Middle Channel



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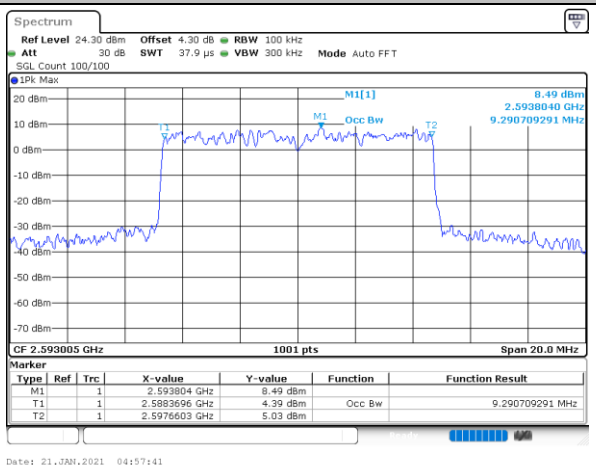
Middle Channel



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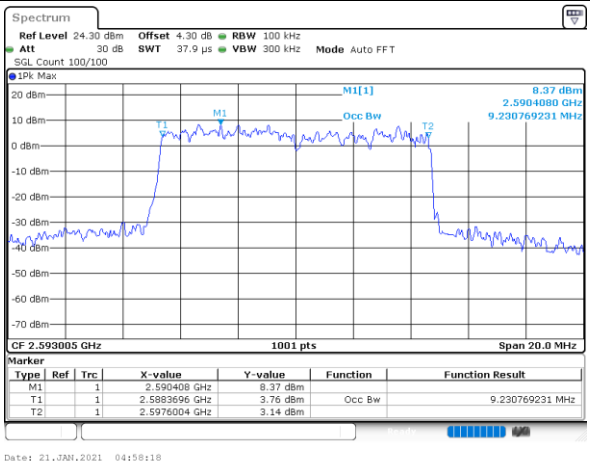
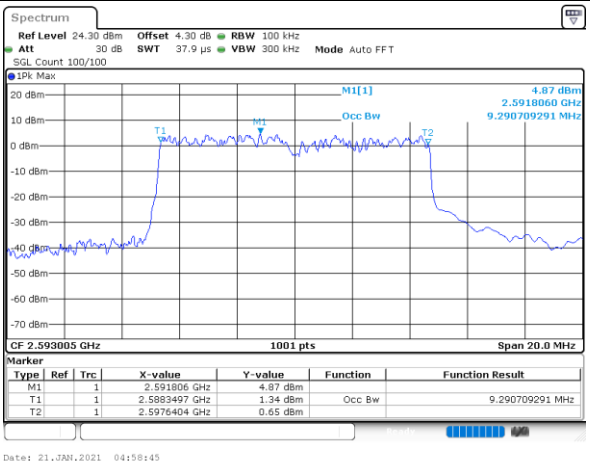
Middle Channel



256QAM

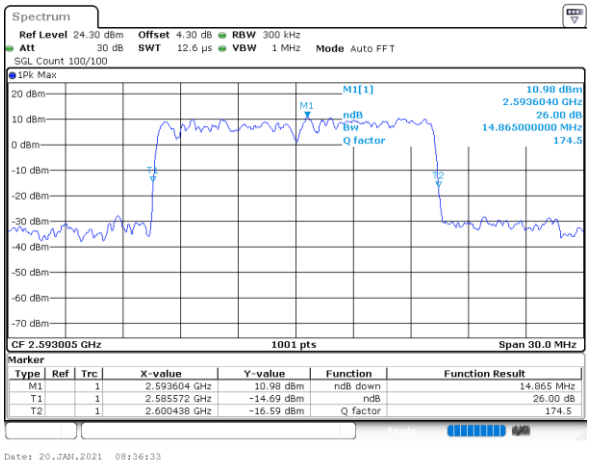
Middle Channel



FR1 UL-MIMO n41 / 15MHz / CP-OFDM (M2)

QPSK

Middle Channel



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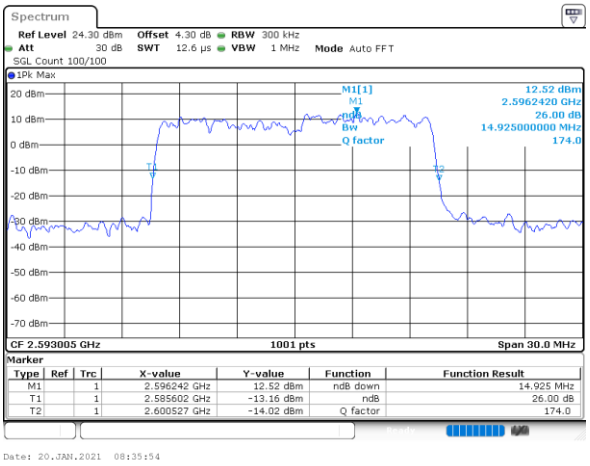
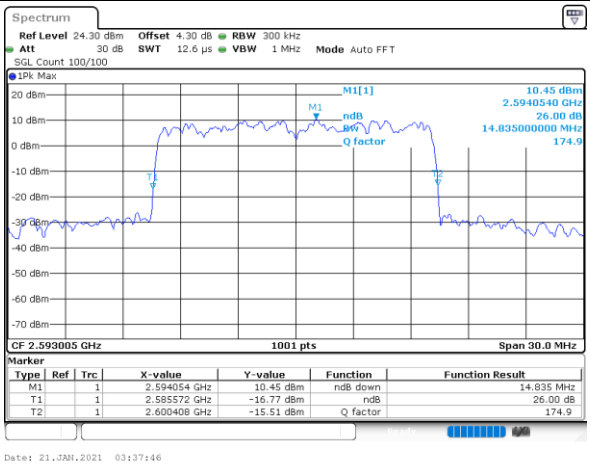
Middle Channel



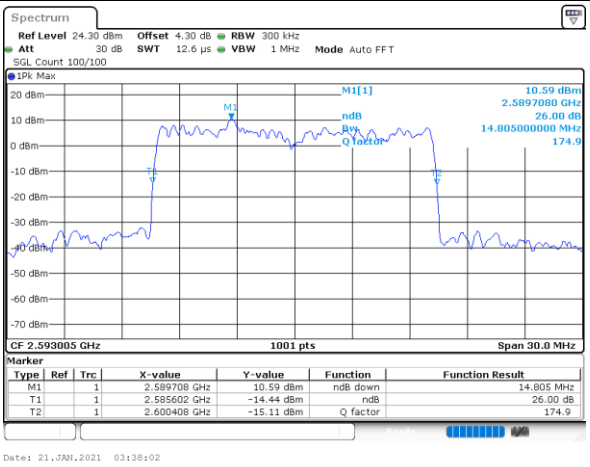
64QAM

Middle Channel



256QAM

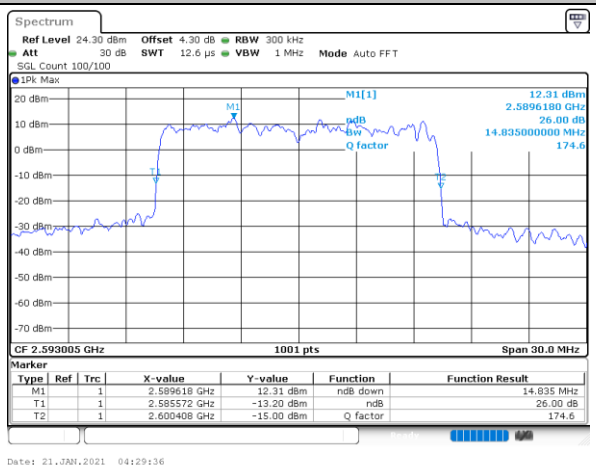
Middle Channel



FR1 UL-MIMO n41 / 15MHz / CP-OFDM (M)

QPSK

Middle Channel



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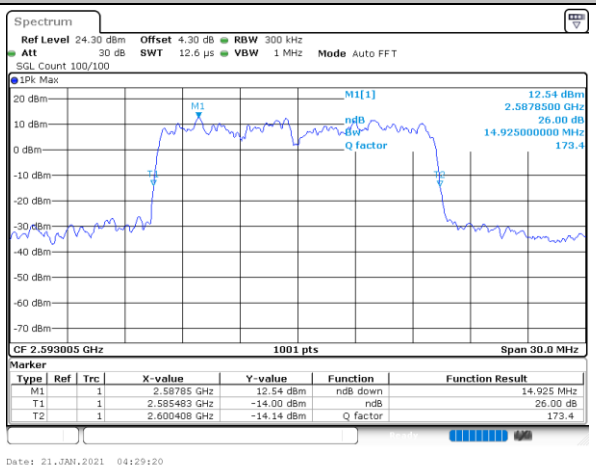
Middle Channel



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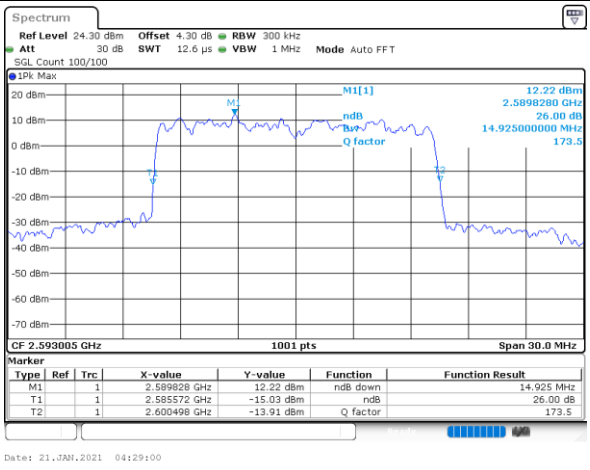
Middle Channel



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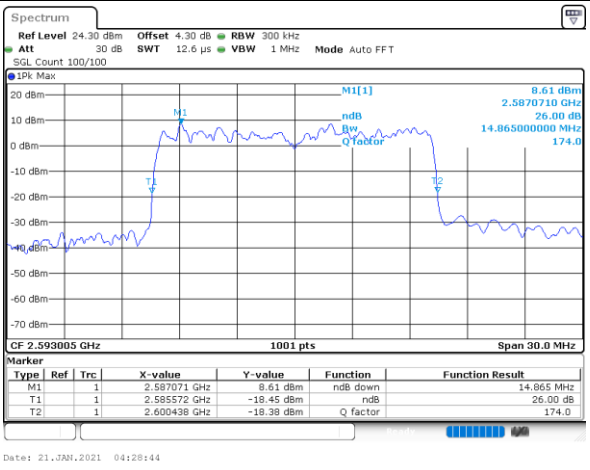
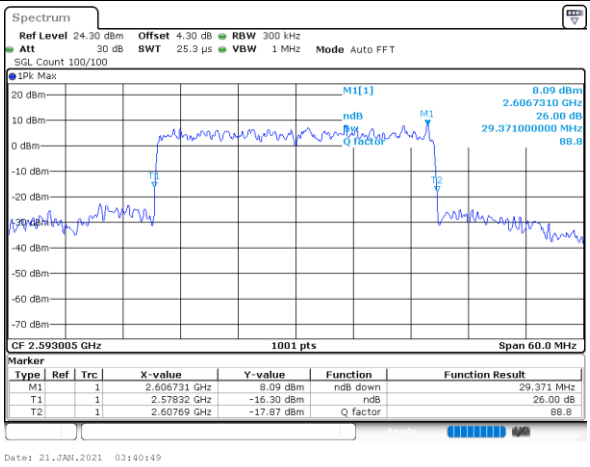
Middle Channel



FR1 UL-MIMO n41 / 30MHz / CP-OFDM (M2)

QPSK

Middle Channel



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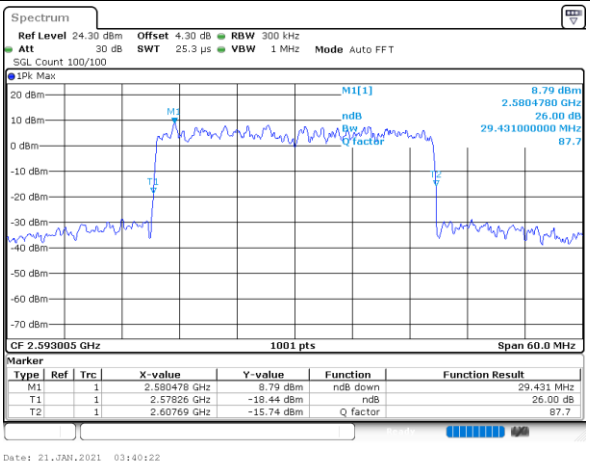
Middle Channel



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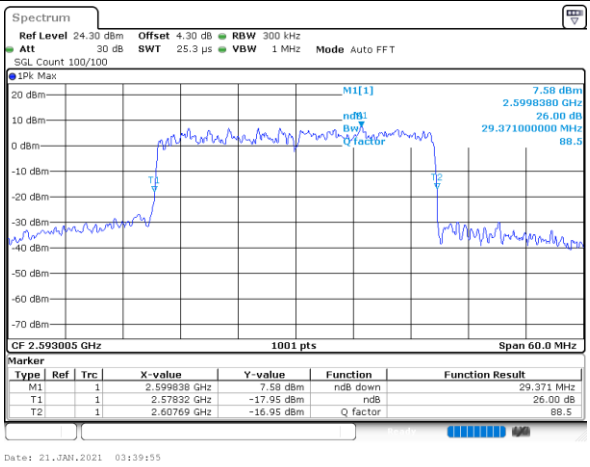
Middle Channel



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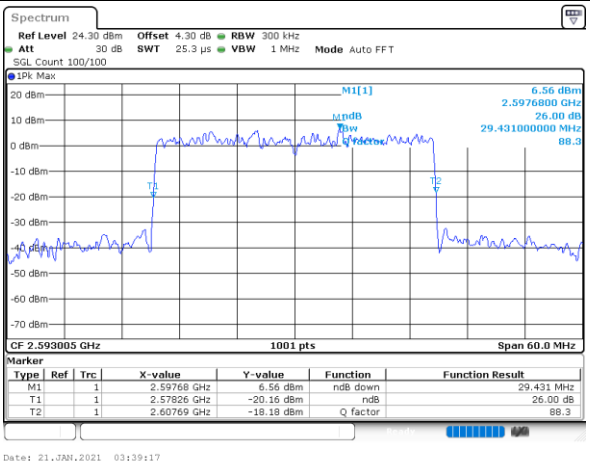
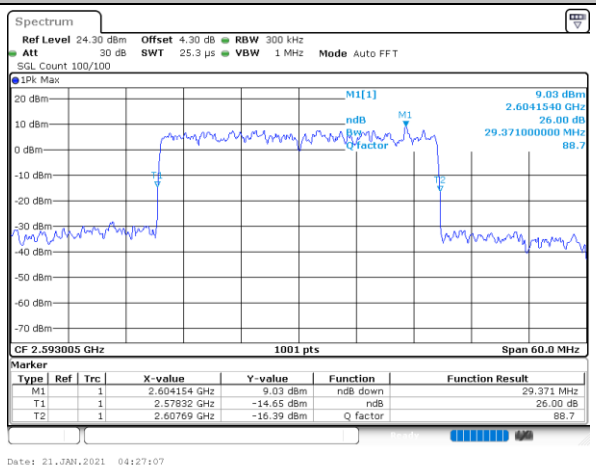
Middle Channel



FR1 UL-MIMO n41 / 30MHz / CP-OFDM (M)

QPSK

Middle Channel



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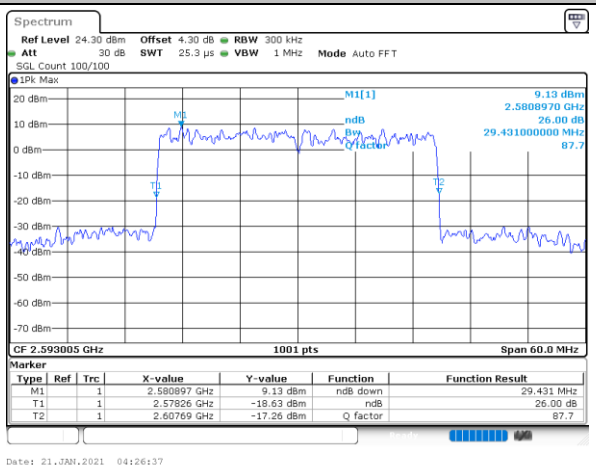
Middle Channel



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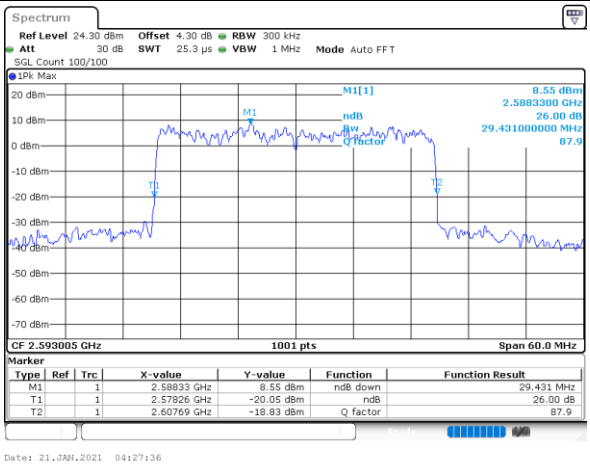
Middle Channel



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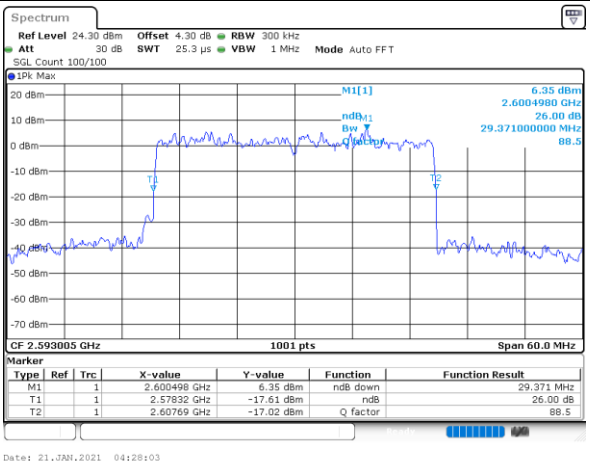
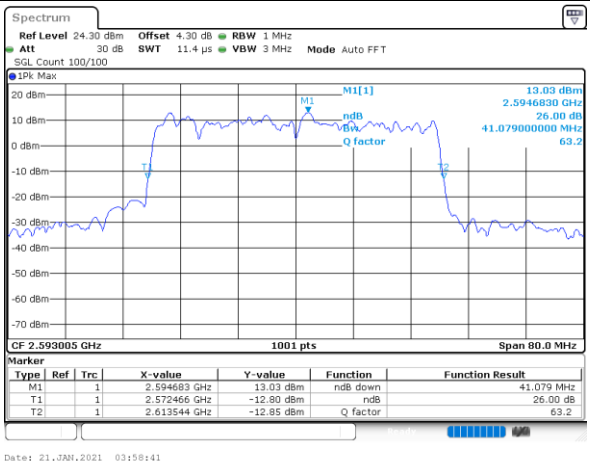
Middle Channel



FR1 UL-MIMO n41 / 40MHz / CP-OFDM (M2)

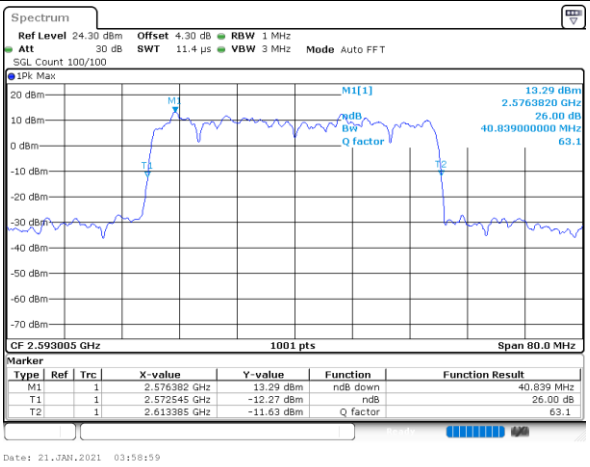
QPSK

Middle Channel



16QAM

Middle Channel



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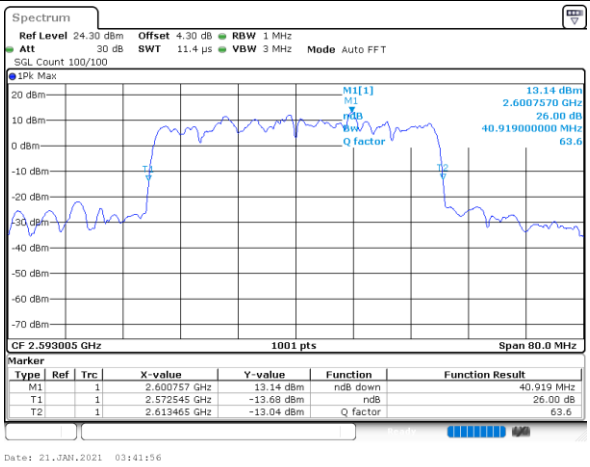
Middle Channel



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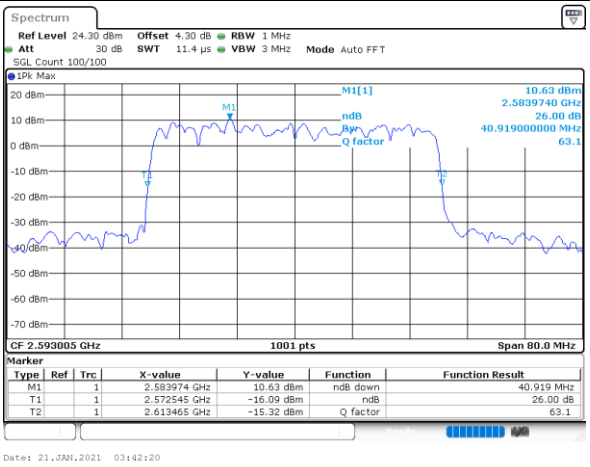
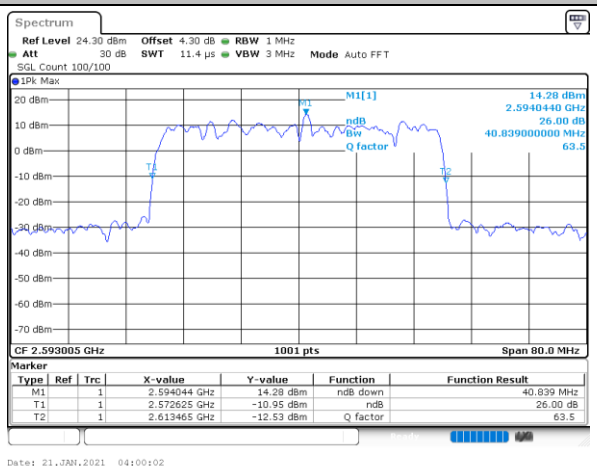
Middle Channel



FR1 UL-MIMO n41 / 40MHz / CP-OFDM (M)

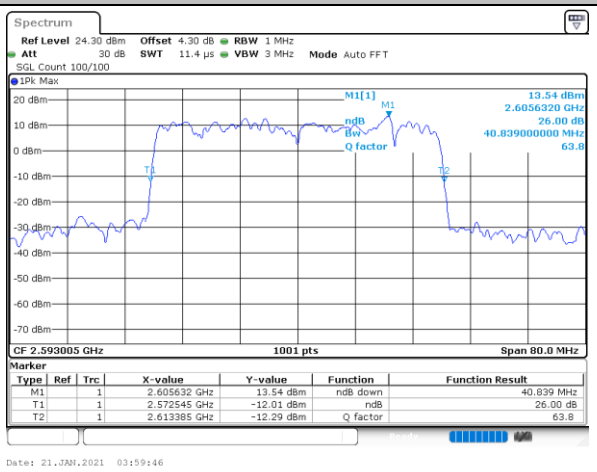
QPSK

Middle Channel



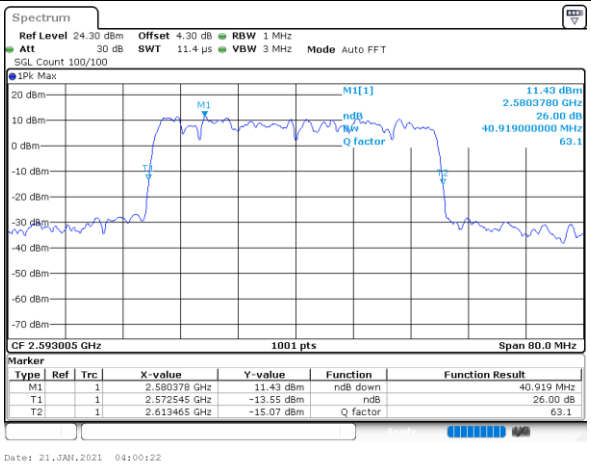
16QAM

Middle Channel



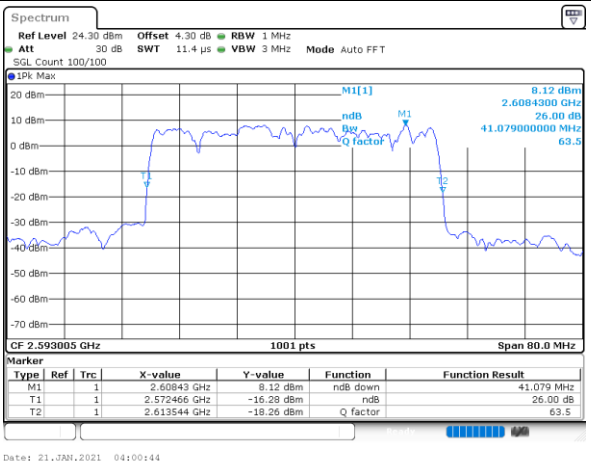
64QAM

Middle Channel



256QAM

Middle Channel



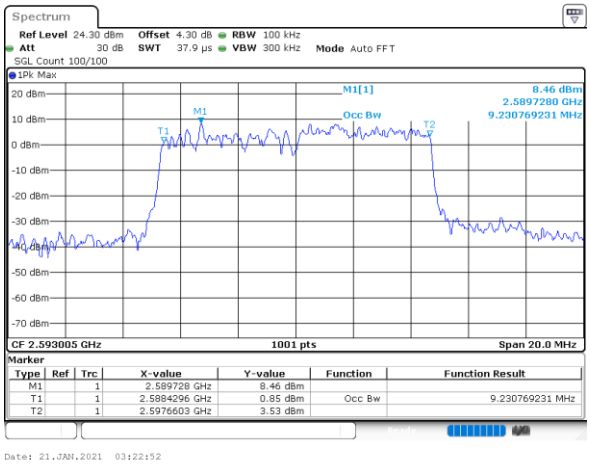
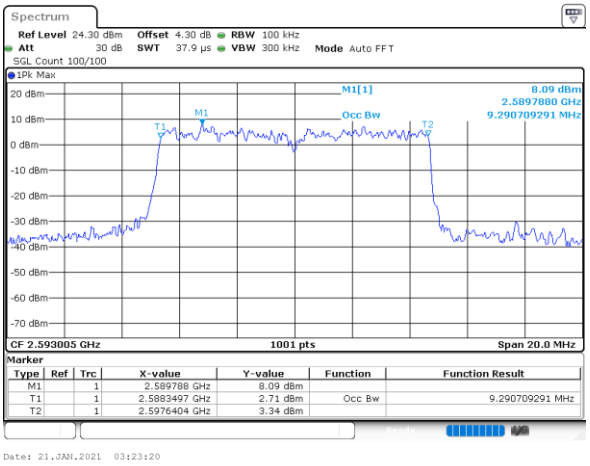
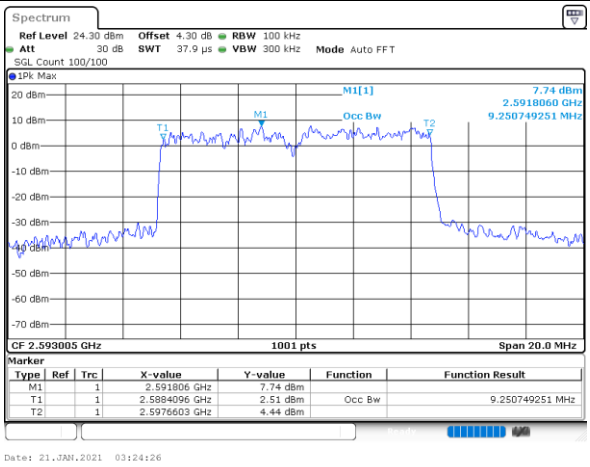
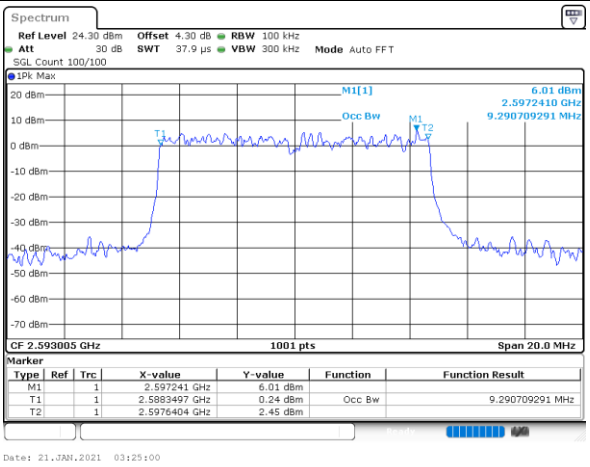
Occupied Bandwidth

Mode	FR1 UL-MIMO n41 : 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	9.23	9.29	9.25	9.29	9.21	9.29	9.23	9.29

Mode	FR1 UL-MIMO n41 : 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	14.09	14.21	14.15	14.18	14.18	14.15	14.06	14.06

Mode	FR1 UL-MIMO n41 : OBW(MHz) / CP-OFDM							
	M2				M			
BW	30MHz	30MHz	30MHz	30MHz	30MHz	30MHz	30MHz	30MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	28.47	28.59	28.47	28.35	28.47	28.59	28.47	28.47

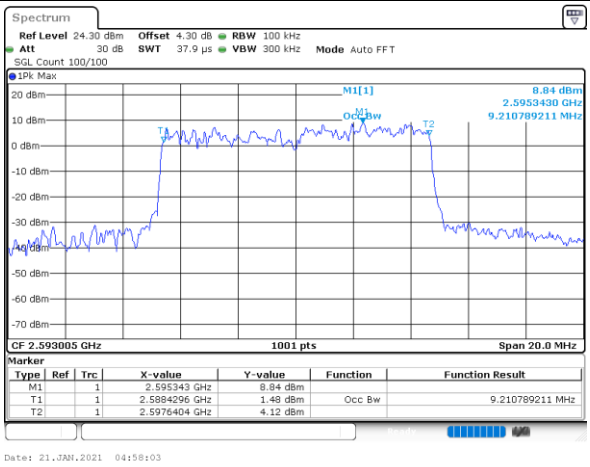
Mode	FR1 UL-MIMO n41 : OBW(MHz) / CP-OFDM							
	M2				M			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	38.84	38.68	38.60	38.28	38.68	38.68	38.52	38.76

FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M2)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M)

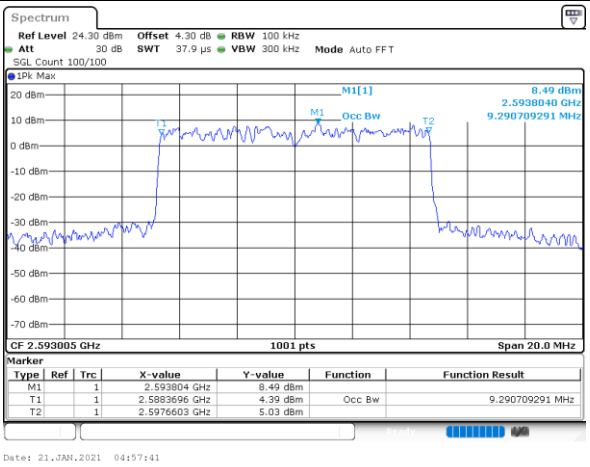
QPSK

Middle Channel



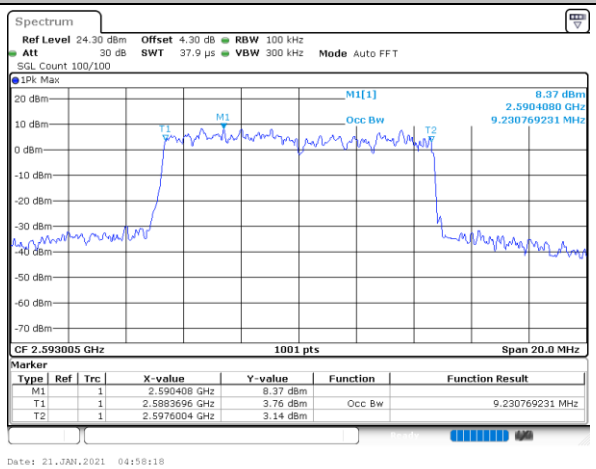
16QAM

Middle Channel



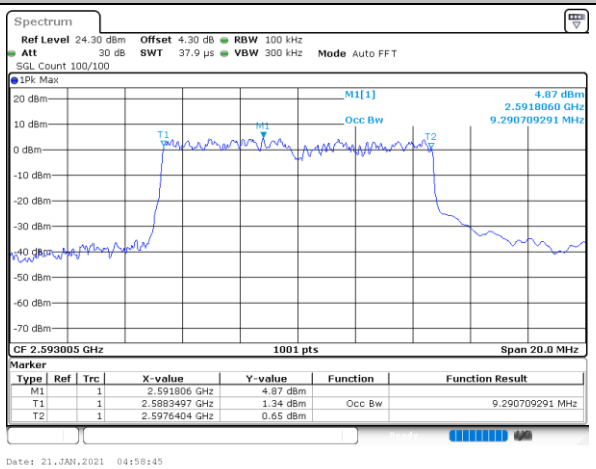
64QAM

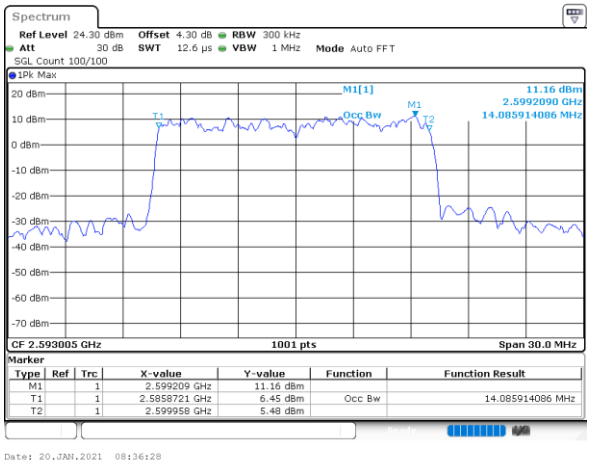
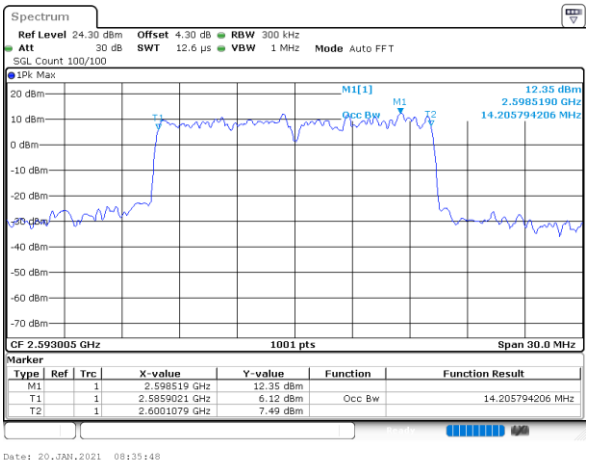
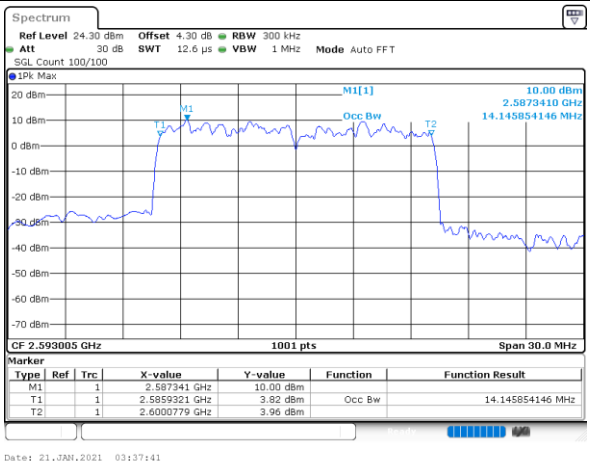
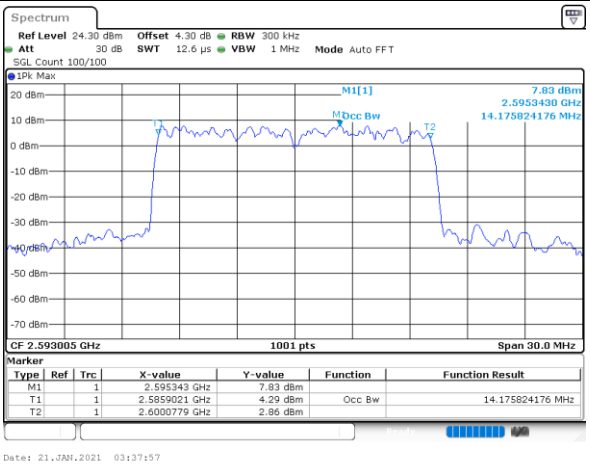
Middle Channel



256QAM

Middle Channel

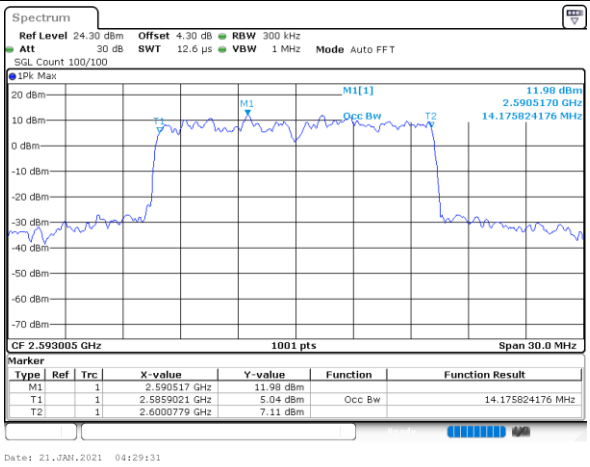


FR1 UL-MIMO n41 / 15MHz / CP-OFDM (M2)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 UL-MIMO n41 / 15MHz / CP-OFDM (M)

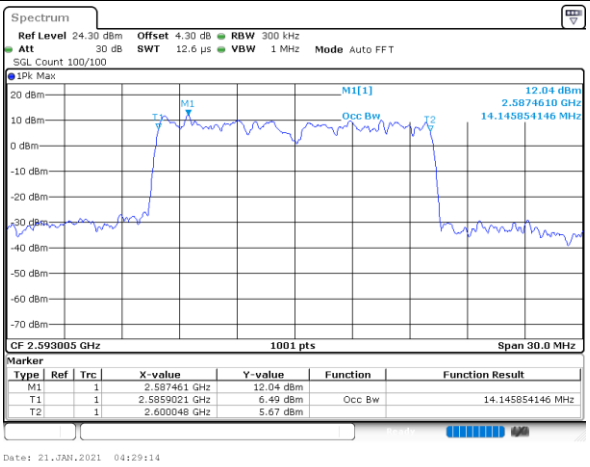
QPSK

Middle Channel



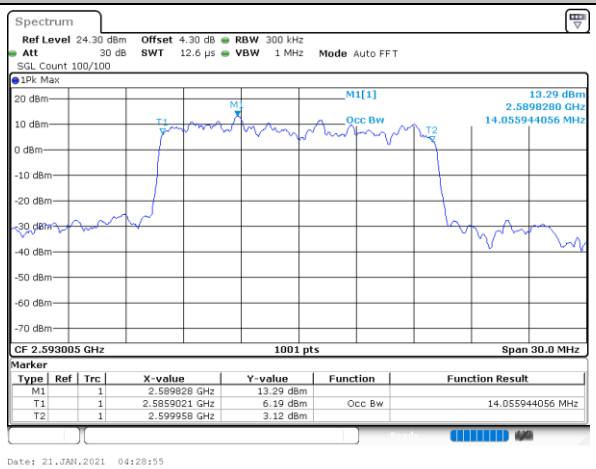
16QAM

Middle Channel



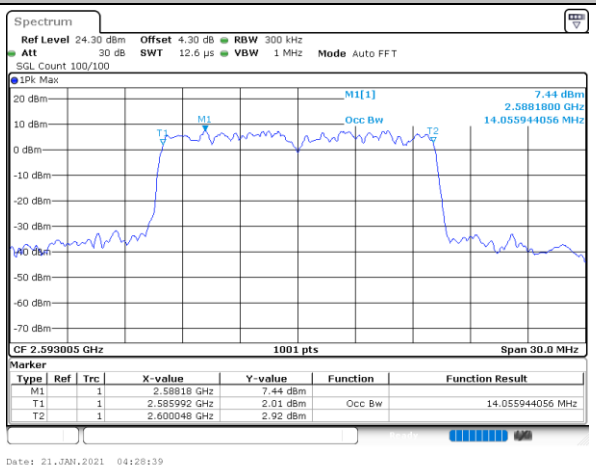
64QAM

Middle Channel



256QAM

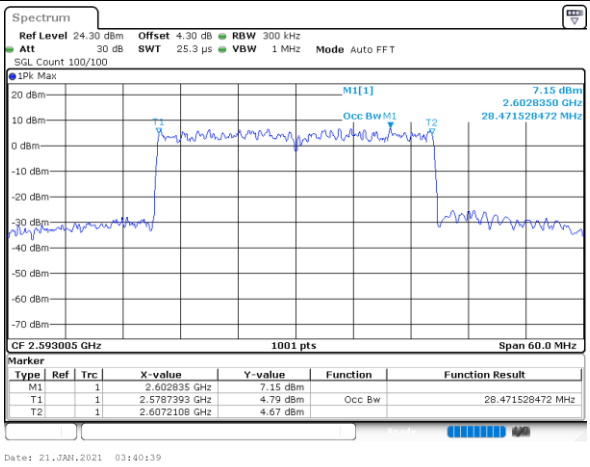
Middle Channel



FR1 UL-MIMO n41 / 30MHz / CP-OFDM (M2)

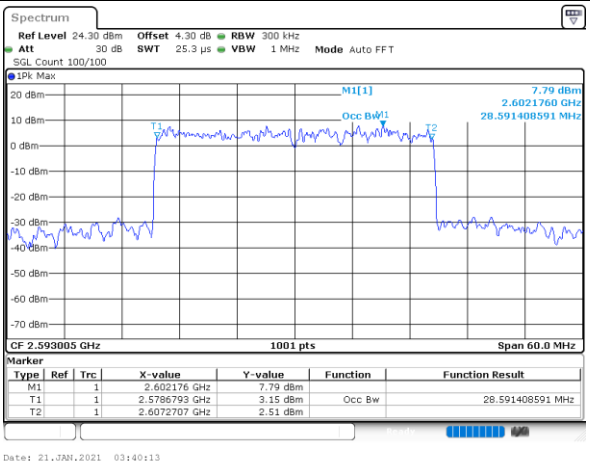
QPSK

Middle Channel



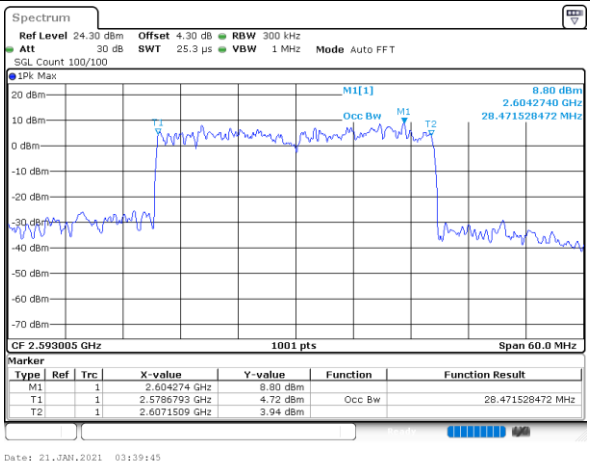
16QAM

Middle Channel



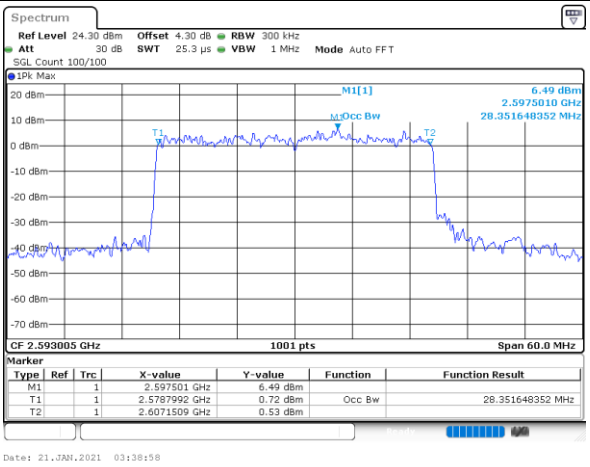
64QAM

Middle Channel



256QAM

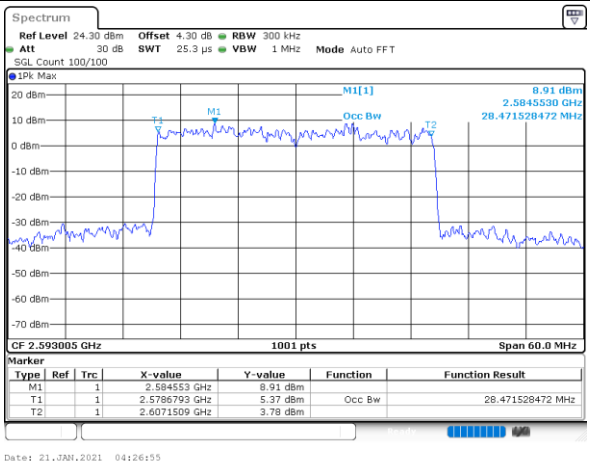
Middle Channel



FR1 UL-MIMO n41 / 30MHz / CP-OFDM (M)

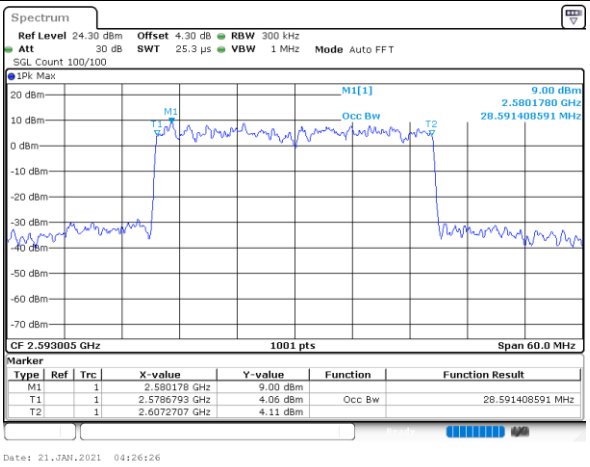
QPSK

Middle Channel



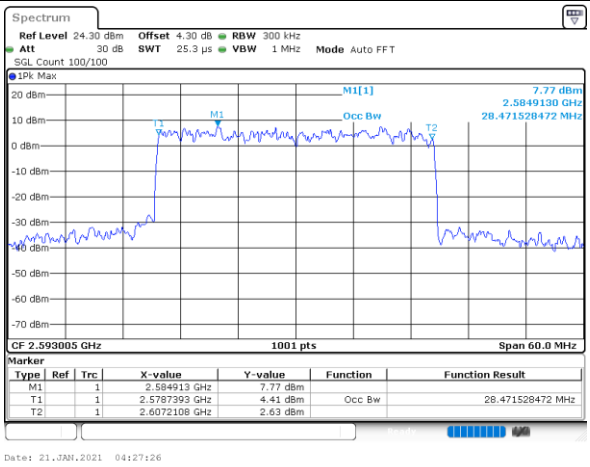
16QAM

Middle Channel



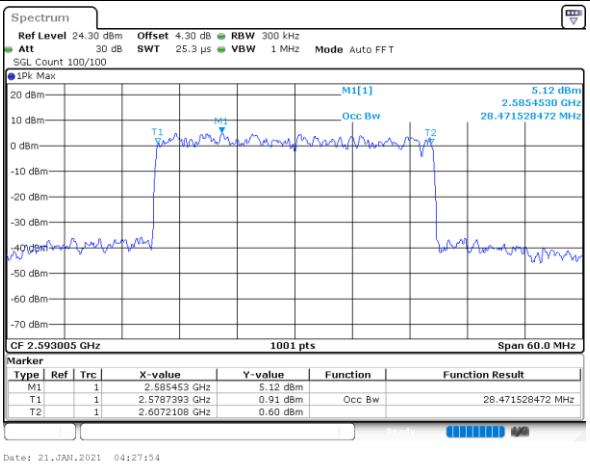
64QAM

Middle Channel



256QAM

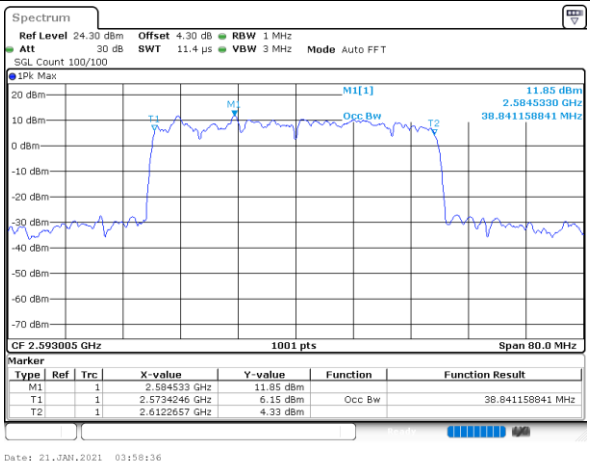
Middle Channel



FR1 UL-MIMO n41 / 40MHz / CP-OFDM (M2)

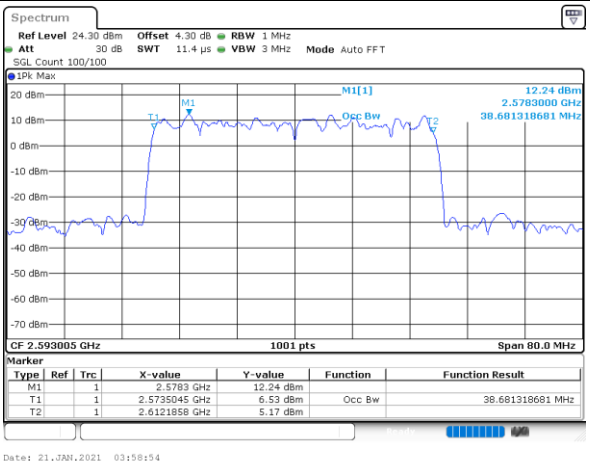
QPSK

Middle Channel



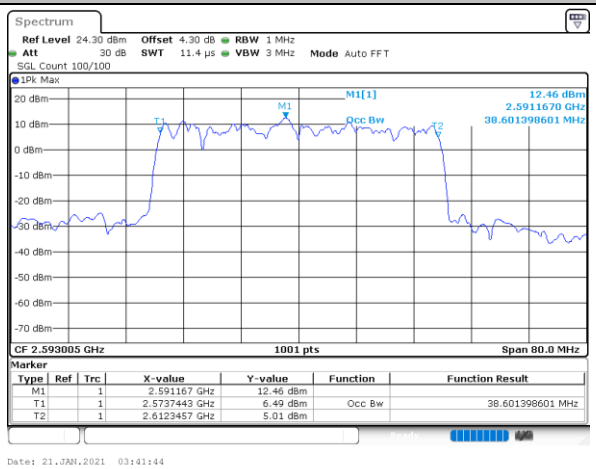
16QAM

Middle Channel



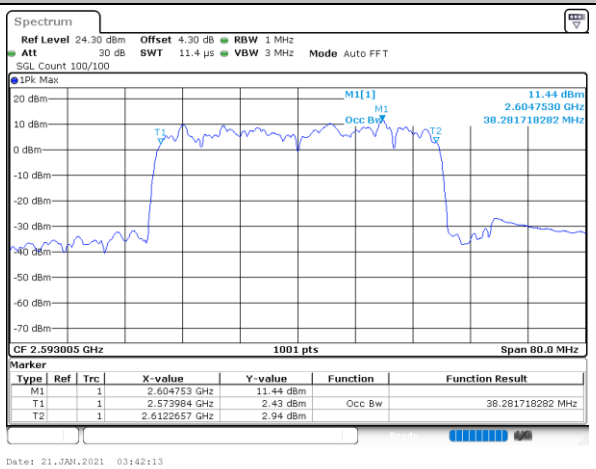
64QAM

Middle Channel



256QAM

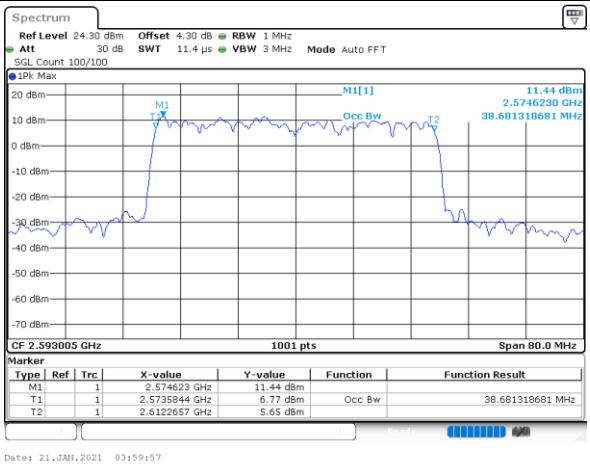
Middle Channel



FR1 UL-MIMO n41 / 40MHz / CP-OFDM (M)

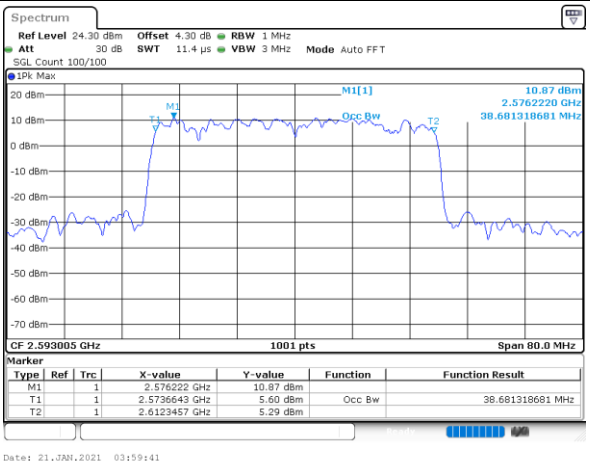
QPSK

Middle Channel



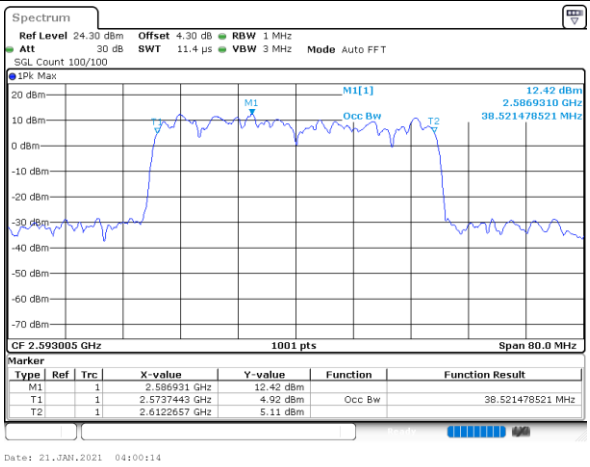
16QAM

Middle Channel



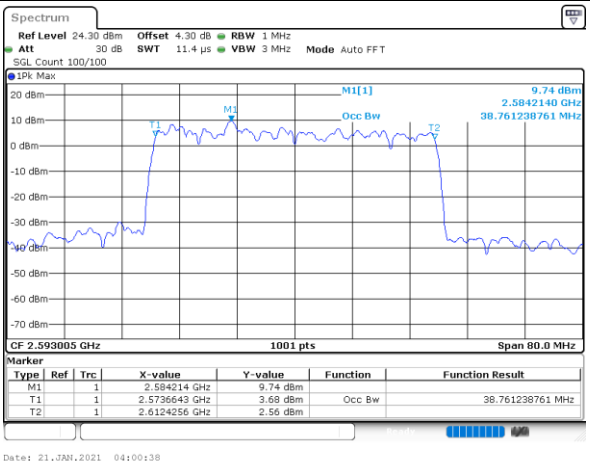
64QAM

Middle Channel

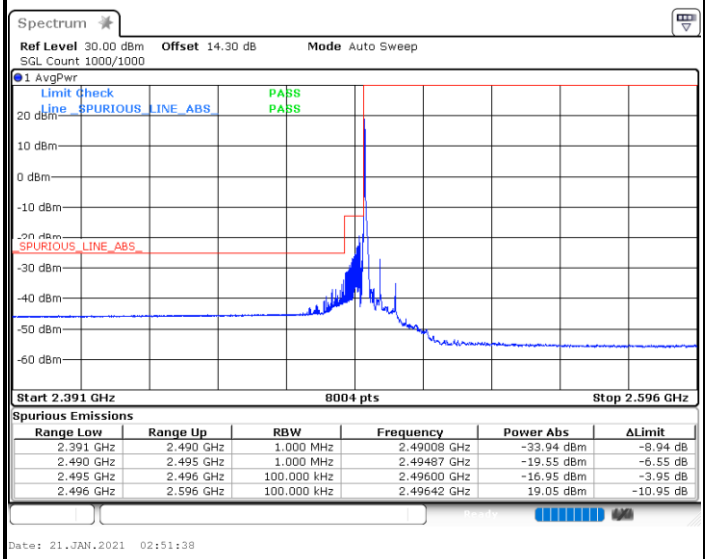
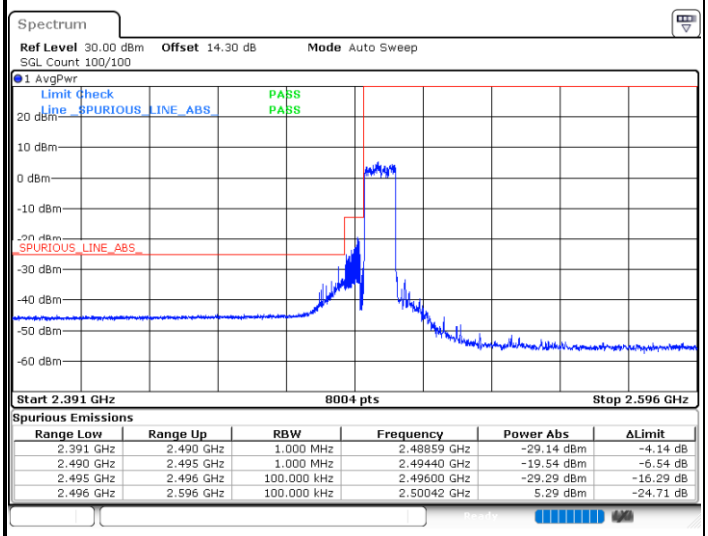


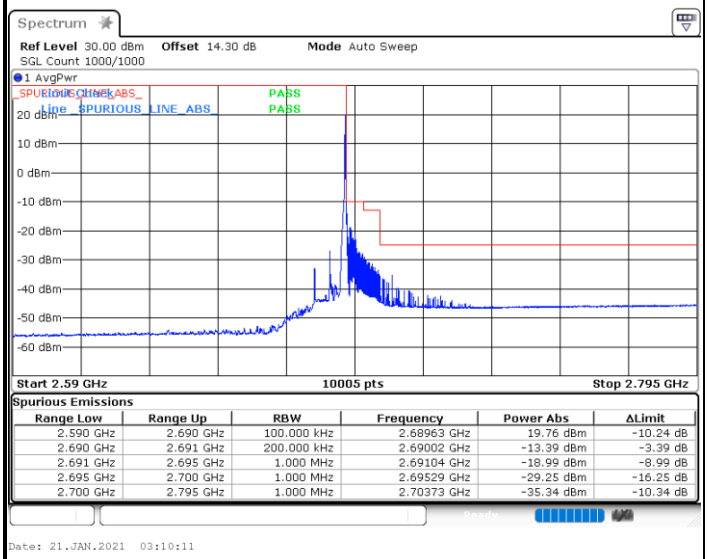
256QAM

Middle Channel



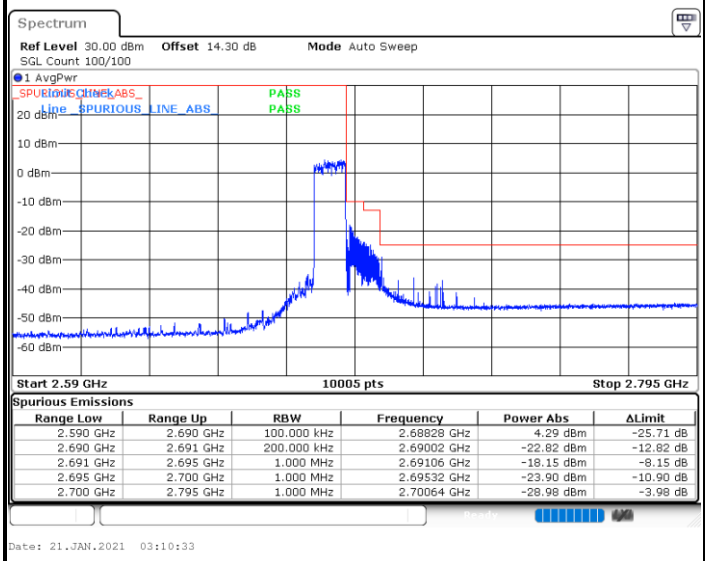
Conducted Band Edge

FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M2)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.49008 GHz / -33.94 dBm / -8.94 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49487 GHz / -19.55 dBm / -6.55 dB 2.495 GHz / 2.496 GHz / 100.000 kHz / 2.49600 GHz / -16.95 dBm / -3.95 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.49642 GHz / 19.05 dBm / -10.95 dB Date: 21.JAN.2021 02:51:38	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48859 GHz / -29.14 dBm / -4.14 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49440 GHz / -19.54 dBm / -6.54 dB 2.495 GHz / 2.496 GHz / 100.000 kHz / 2.49600 GHz / -29.29 dBm / -16.29 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.50042 GHz / 5.29 dBm / -24.71 dB Date: 21.JAN.2021 02:50:26	/

FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M2)	
Highest Band Edge / 1 RB	**Channel Power < -10dBm Pass**
	/

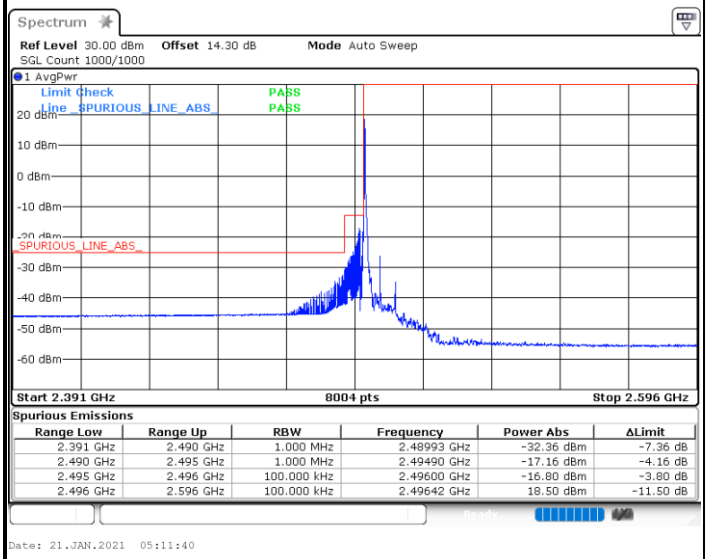
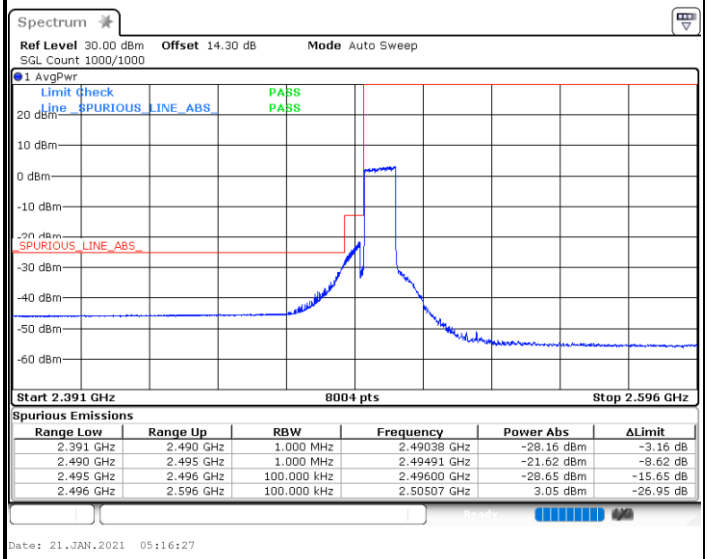
Spurious Emissions

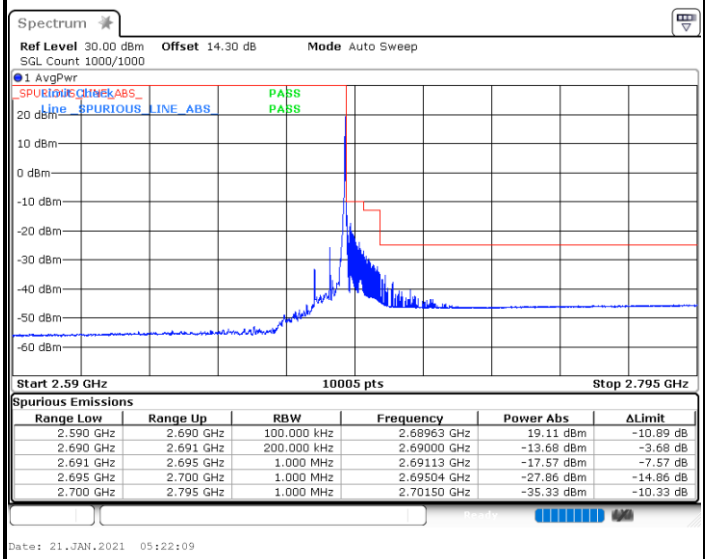
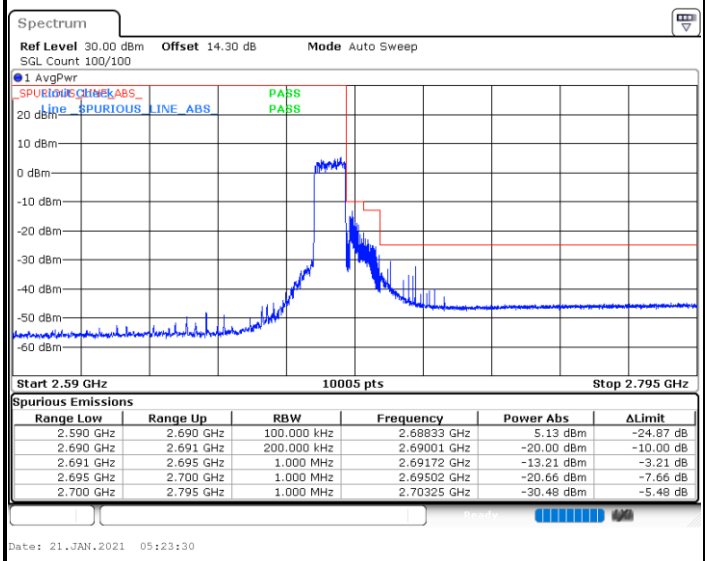
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68963 GHz	19.76 dBm	-10.24 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69002 GHz	-13.39 dBm	-3.39 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69104 GHz	-18.99 dBm	-8.99 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69529 GHz	-29.25 dBm	-16.25 dB
2.700 GHz	2.795 GHz	1.000 MHz	2.70373 GHz	-35.34 dBm	-10.34 dB

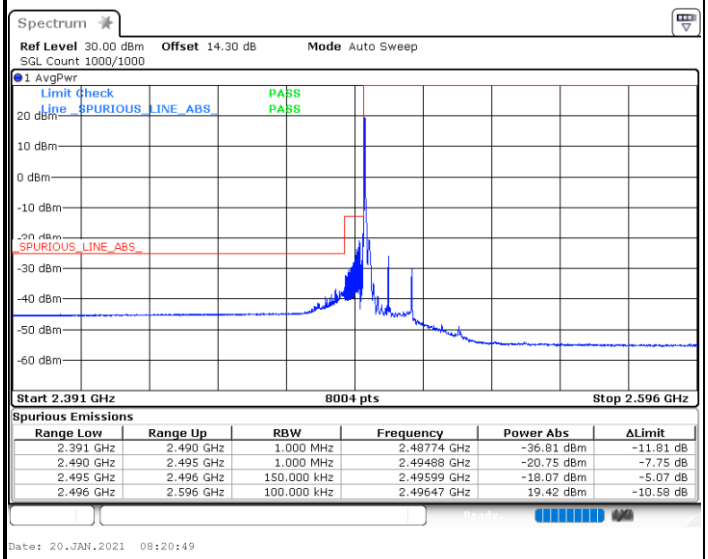
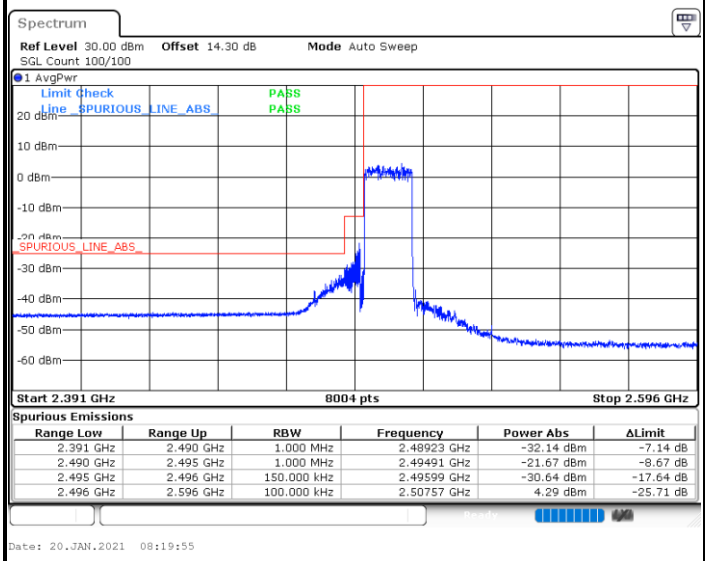
Highest Band Edge / Full RB	**Channel Power < -10dBm Pass**
	/

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.590 GHz	2.690 GHz	100.000 kHz	2.68828 GHz	4.29 dBm	-25.71 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69002 GHz	-22.82 dBm	-12.82 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69106 GHz	-18.15 dBm	-8.15 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69532 GHz	-23.90 dBm	-10.90 dB
2.700 GHz	2.795 GHz	1.000 MHz	2.70064 GHz	-28.98 dBm	-3.98 dB

FR1 UL-MIMO n41 / 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 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.48993 GHz / -32.36 dBm / -7.36 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49490 GHz / -17.16 dBm / -4.16 dB 2.495 GHz / 2.496 GHz / 100.000 kHz / 2.49600 GHz / -16.80 dBm / -3.80 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.49642 GHz / 18.50 dBm / -11.50 dB Date: 21.JAN.2021 05:11:40	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 2.391 GHz / 2.490 GHz / 1.000 MHz / 2.49038 GHz / -28.16 dBm / -3.16 dB 2.490 GHz / 2.495 GHz / 1.000 MHz / 2.49491 GHz / -21.62 dBm / -8.62 dB 2.495 GHz / 2.496 GHz / 100.000 kHz / 2.49600 GHz / -28.65 dBm / -15.65 dB 2.496 GHz / 2.596 GHz / 100.000 kHz / 2.50507 GHz / 3.05 dBm / -26.95 dB Date: 21.JAN.2021 05:16:27	/

FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n41 / 15MHz / CP-OFDM QPSK (M2)	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/