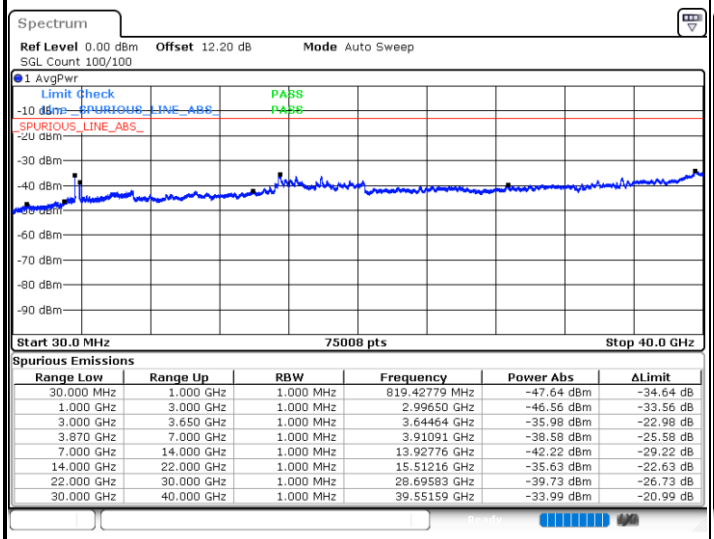
FR1 n78 / 50MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

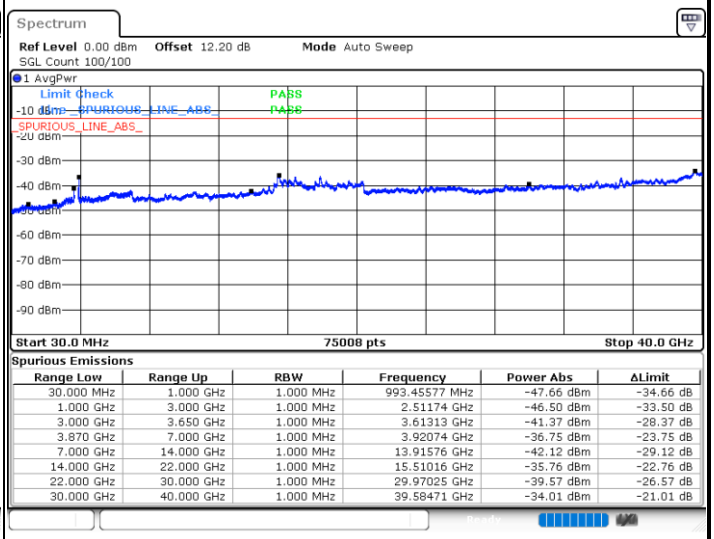


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	819.42779 MHz	-47.64 dBm	-34.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99650 GHz	-46.56 dBm	-33.56 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.64464 GHz	-35.98 dBm	-22.98 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.91091 GHz	-38.58 dBm	-25.58 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92776 GHz	-42.22 dBm	-29.22 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51216 GHz	-35.63 dBm	-22.63 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.69583 GHz	-39.73 dBm	-26.73 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55159 GHz	-33.99 dBm	-20.99 dB

Date: 30.JAN.2021 02:48:18

Middle Channel / 1RB

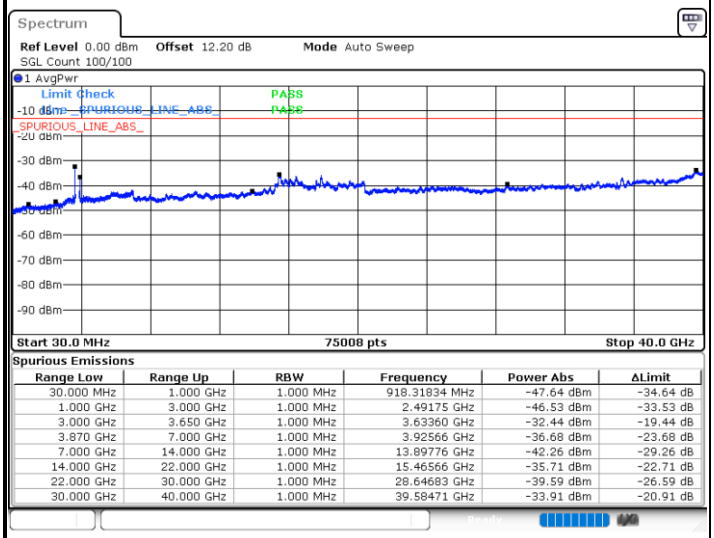


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.45577 MHz	-47.66 dBm	-34.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51174 GHz	-46.50 dBm	-33.50 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.61313 GHz	-41.37 dBm	-28.37 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.92074 GHz	-36.75 dBm	-23.75 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.91576 GHz	-42.12 dBm	-29.12 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51016 GHz	-35.76 dBm	-22.76 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97025 GHz	-39.57 dBm	-26.57 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58471 GHz	-34.01 dBm	-21.01 dB

Date: 30.JAN.2021 02:56:24

Highest Channel / 1RB



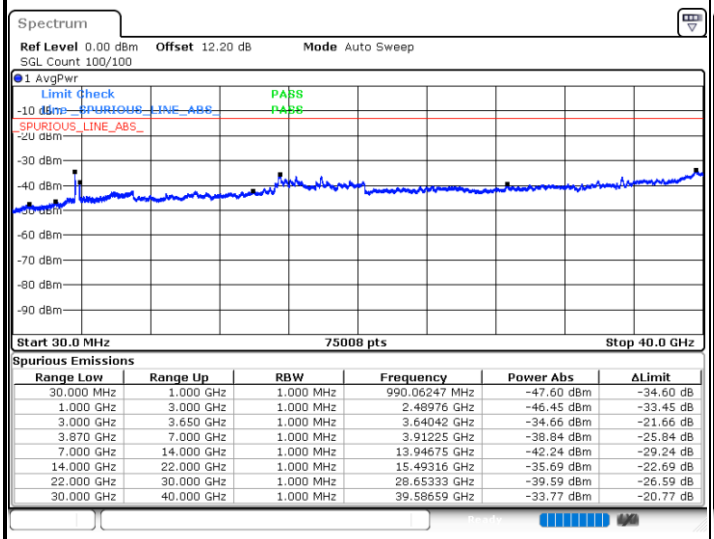
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	918.31834 MHz	-47.64 dBm	-34.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49175 GHz	-46.53 dBm	-33.53 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.63360 GHz	-32.44 dBm	-19.44 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.92566 GHz	-36.68 dBm	-23.68 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89776 GHz	-42.26 dBm	-29.26 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46566 GHz	-35.71 dBm	-22.71 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64683 GHz	-39.59 dBm	-26.59 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58471 GHz	-33.91 dBm	-20.91 dB

Date: 30.JAN.2021 03:00:11

FR1 n78 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

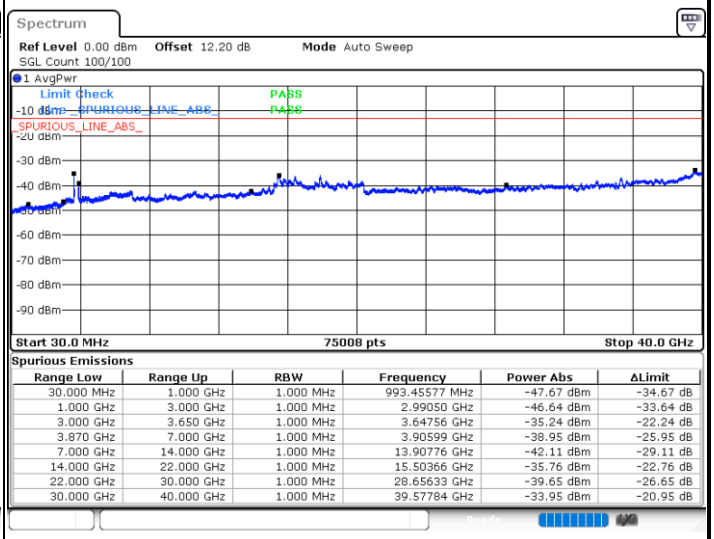


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.06247 MHz	-47.60 dBm	-34.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48976 GHz	-46.45 dBm	-33.45 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.64042 GHz	-34.66 dBm	-21.66 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.91225 GHz	-38.84 dBm	-25.84 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94675 GHz	-42.24 dBm	-29.24 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49316 GHz	-35.69 dBm	-22.69 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65333 GHz	-39.59 dBm	-26.59 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58659 GHz	-33.77 dBm	-20.77 dB

Date: 30.JAN.2021 02:49:34

Middle Channel / 1RB

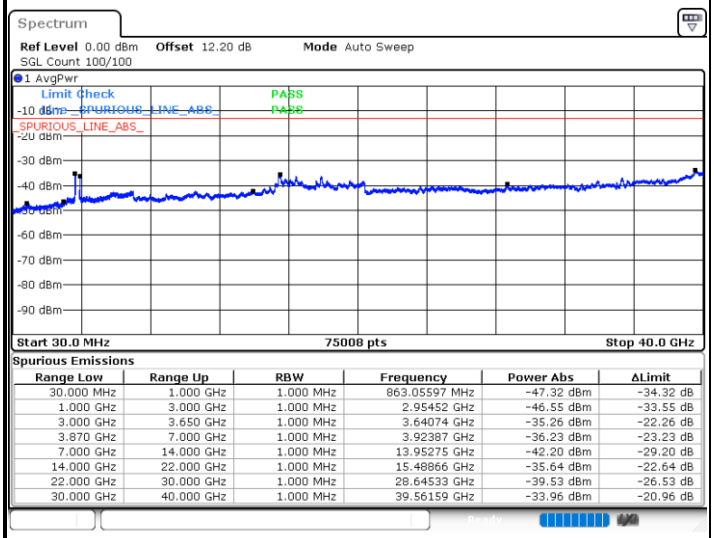


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.45577 MHz	-47.67 dBm	-34.67 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99050 GHz	-46.64 dBm	-33.64 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.64756 GHz	-35.24 dBm	-22.24 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.90599 GHz	-38.95 dBm	-25.95 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90776 GHz	-42.11 dBm	-29.11 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50366 GHz	-35.76 dBm	-22.76 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65633 GHz	-39.65 dBm	-26.65 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57784 GHz	-33.95 dBm	-20.95 dB

Date: 30.JAN.2021 02:52:10

Highest Channel / 1RB



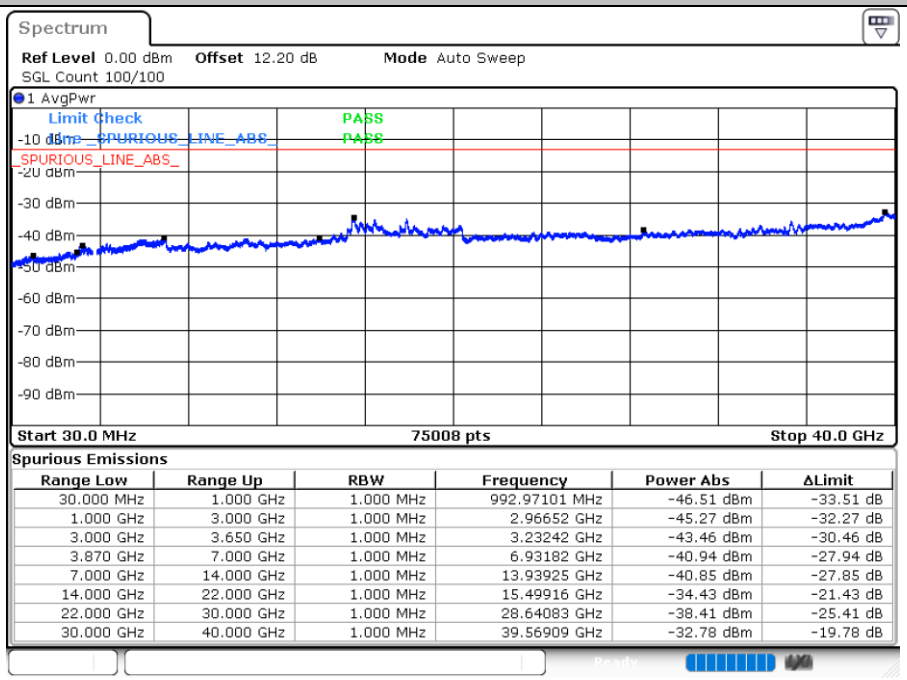
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	863.05597 MHz	-47.32 dBm	-34.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95452 GHz	-46.55 dBm	-33.55 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.64074 GHz	-35.26 dBm	-22.26 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.92387 GHz	-36.23 dBm	-23.23 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.95275 GHz	-42.20 dBm	-29.20 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48866 GHz	-35.64 dBm	-22.64 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64533 GHz	-39.53 dBm	-26.53 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56159 GHz	-33.96 dBm	-20.96 dB

Date: 30.JAN.2021 03:01:30

FR1 n78 / 100MHz / DFT-S OFDM / BPSK

Middle Channel / 1RB



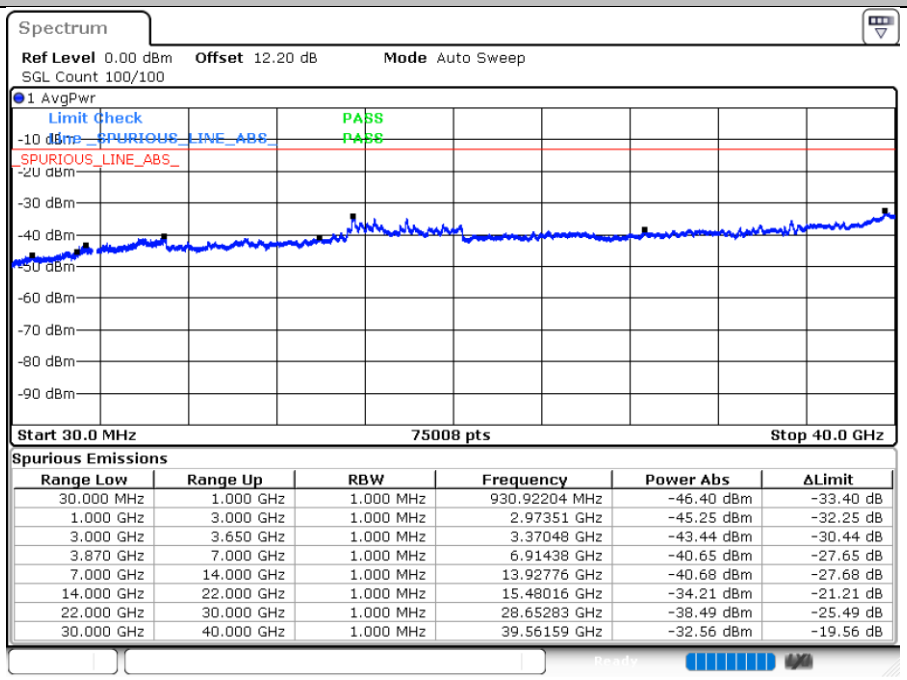
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.97101 MHz	-46.51 dBm	-33.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96652 GHz	-45.27 dBm	-32.27 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.23242 GHz	-43.46 dBm	-30.46 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.93182 GHz	-40.94 dBm	-27.94 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93925 GHz	-40.85 dBm	-27.85 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49916 GHz	-34.43 dBm	-21.43 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64083 GHz	-38.41 dBm	-25.41 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56909 GHz	-32.78 dBm	-19.78 dB

Date: 11.FEB.2021 00:25:07

FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Middle Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	930.92204 MHz	-46.40 dBm	-33.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97351 GHz	-45.25 dBm	-32.25 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.37048 GHz	-43.44 dBm	-30.44 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.91438 GHz	-40.65 dBm	-27.65 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92776 GHz	-40.68 dBm	-27.68 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48016 GHz	-34.21 dBm	-21.21 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65283 GHz	-38.49 dBm	-25.49 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56159 GHz	-32.56 dBm	-19.56 dB

Date: 11.FEB.2021 00:26:24

Frequency Stability

Test Conditions		NR n78 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0018	

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 n78 UL_MIMO HPUE -SCS 15K

Peak-to-Average Ratio

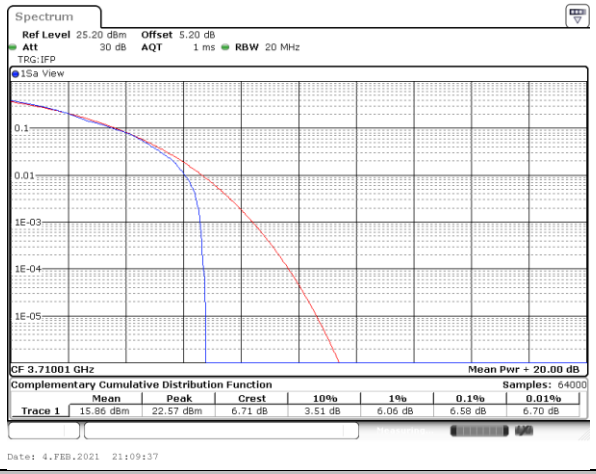
Mode	FR1 UL-MIMO n78 / 20MHz / CP-OFDM (M2)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.58	8.46			PASS
Middle CH	6.58	8.38			
Highest CH	6.52	8.38			

Mode	FR1 UL-MIMO n78 / 20MHz / CP-OFDM (M)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.36	8.32			PASS
Middle CH	7.30	8.26			
Highest CH	7.30	8.09			

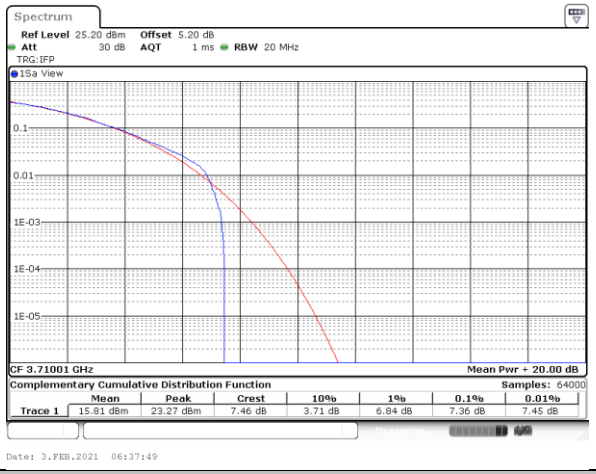
FR1 UL-MIMO n78 / 20MHz / CP-OFDM

QPSK(M2)

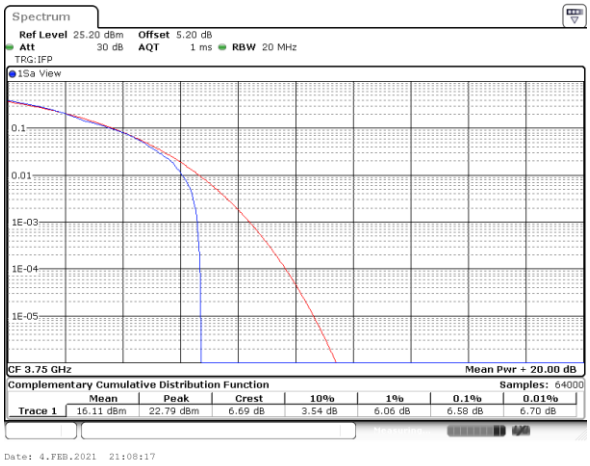
Lowest Channel / 1RB



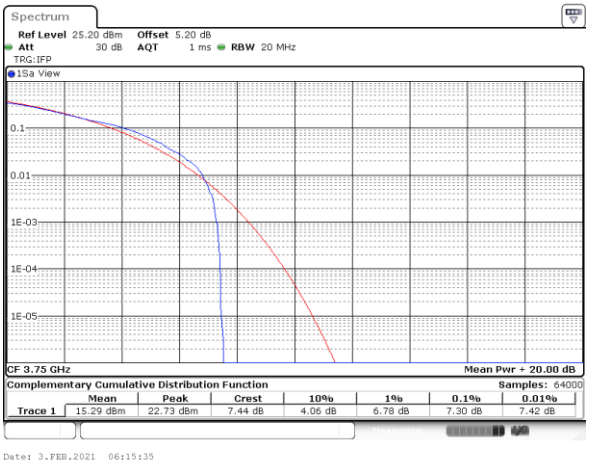
Lowest Channel / 1RB



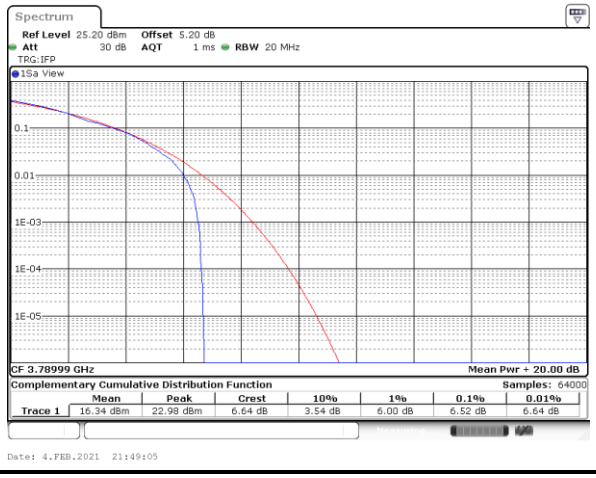
Middle Channel / 1 RB



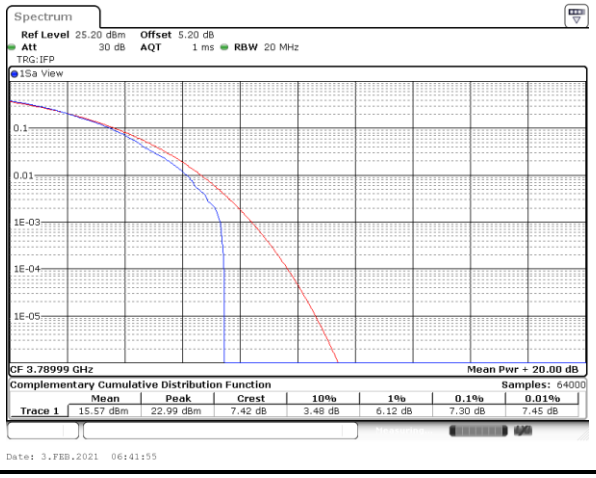
Middle Channel / 1 RB



Highest Channel / 1 RB



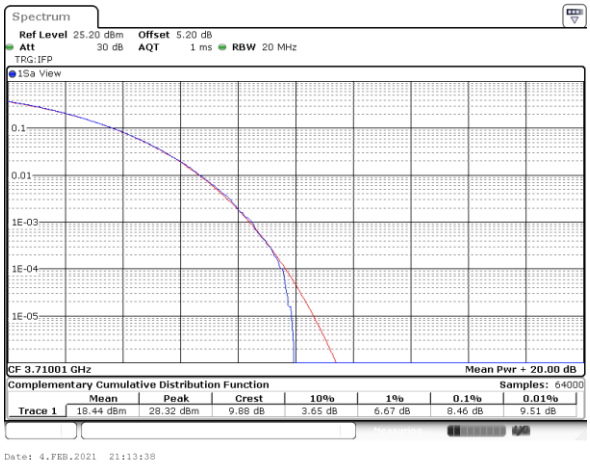
Highest Channel / 1 RB



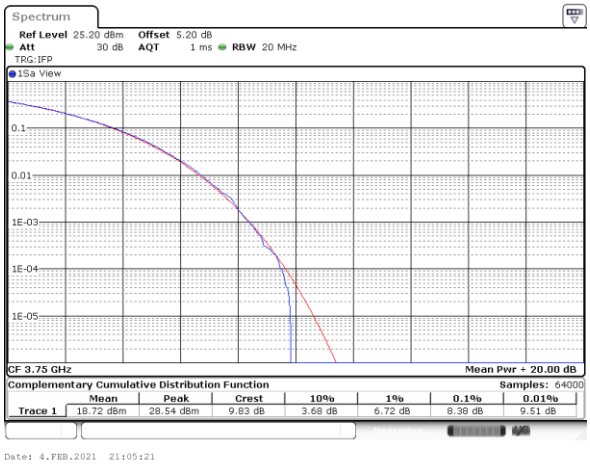
FR1 UL-MIMO n78 / 20MHz / CP-OFDM

QPSK(M2)

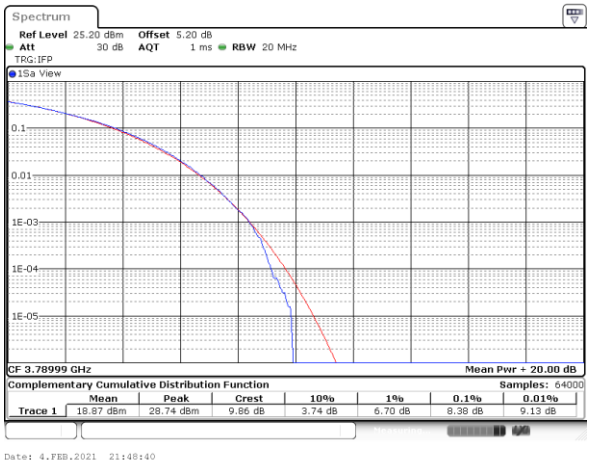
Lowest Channel / Full RB



Middle Channel / Full RB

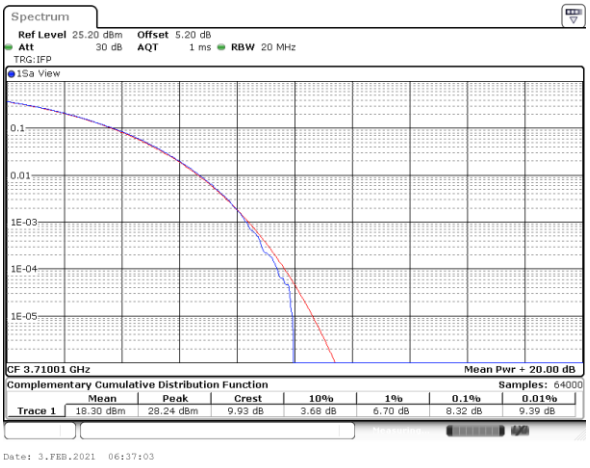


Highest Channel / Full RB

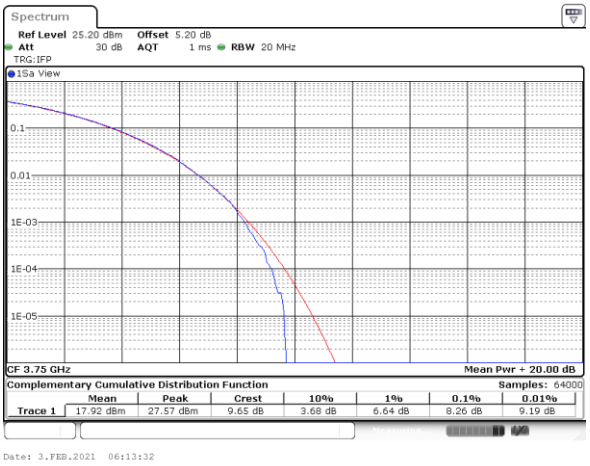


QPSK(M)

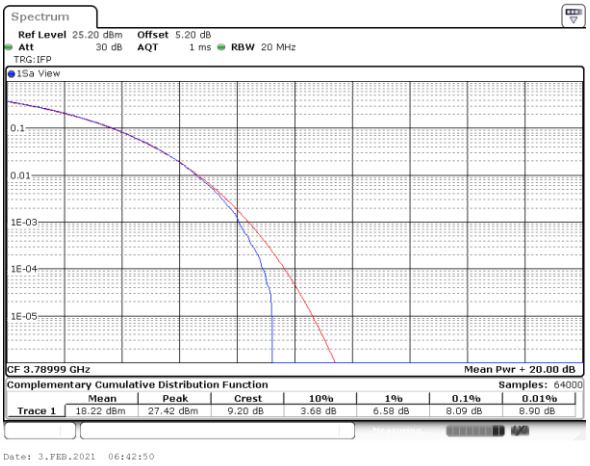
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB



26dB Bandwidth

Mode	FR1 UL-MIMO n78 : 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	9.69	9.65	9.77	9.69	9.71	9.67	9.75	9.75

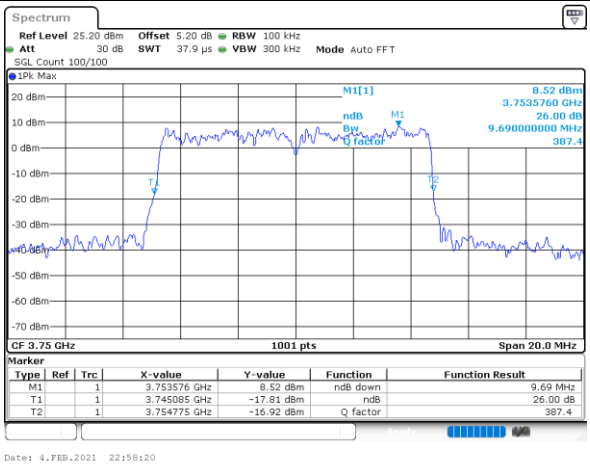
Mode	FR1 UL-MIMO n78 : 26dB BW(MHz) / CP-OFDM							
	M2				M			
BW	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.83	14.86	14.83	14.83	14.92	14.83	14.80	14.86

Mode	FR1 UL-MIMO n78 : 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	19.66	19.7	19.74	19.94	19.74	19.7	19.94	19.7

FR1 UL-MIMO n78 / 10MHz / CP-OFDM (M2)

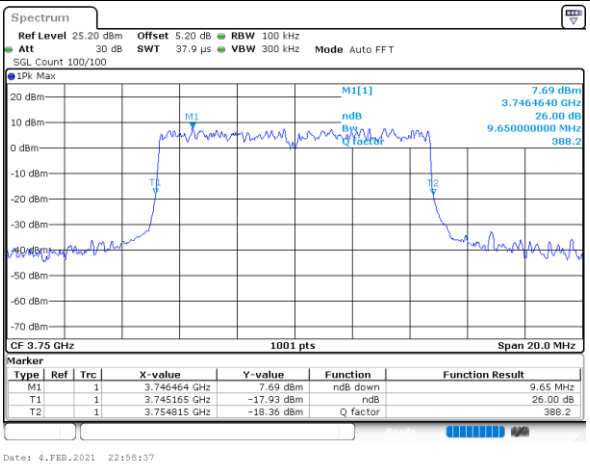
QPSK

Middle Channel



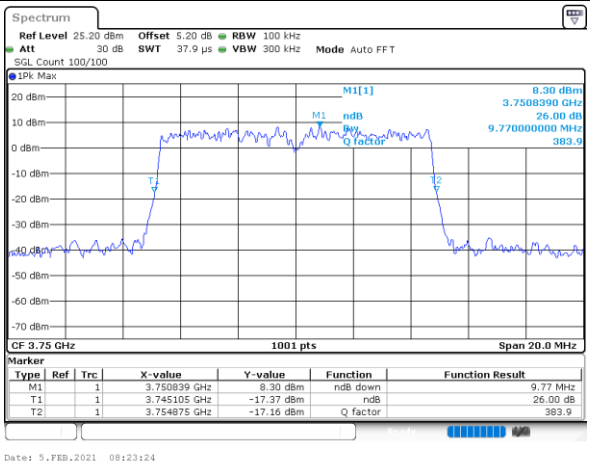
16QAM

Middle Channel



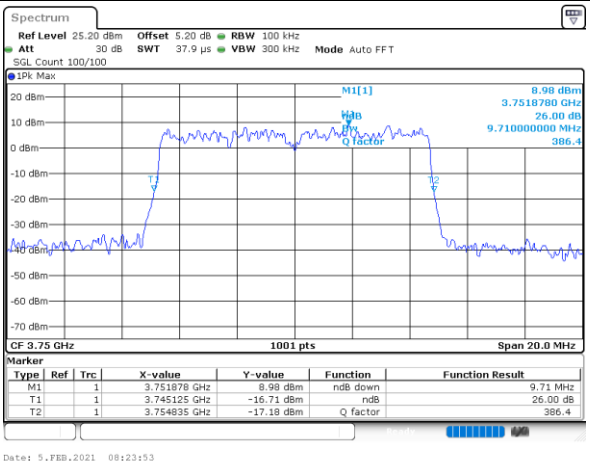
64QAM

Middle Channel



256QAM

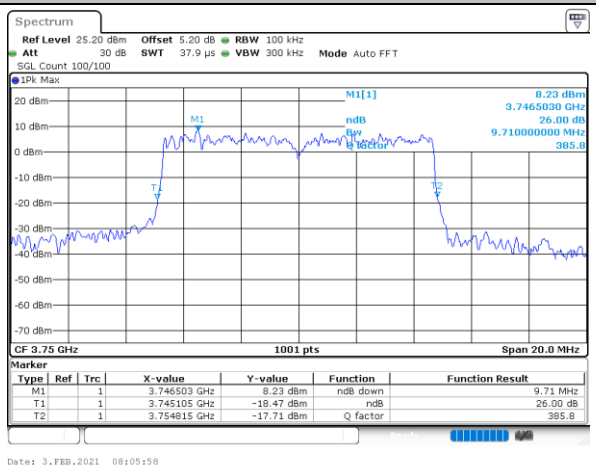
Middle Channel



FR1 UL-MIMO n78 / 10MHz / CP-OFDM (M)

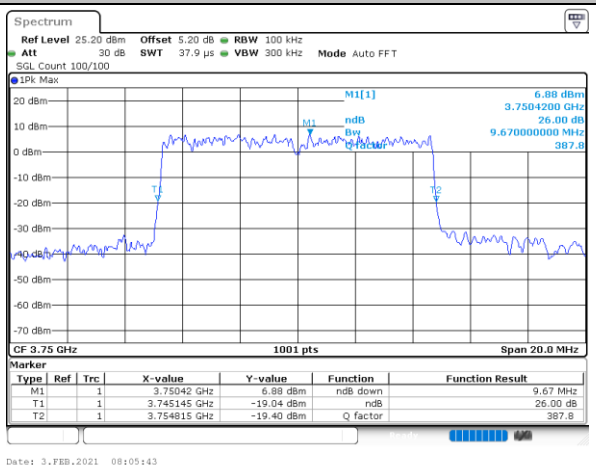
QPSK

Middle Channel



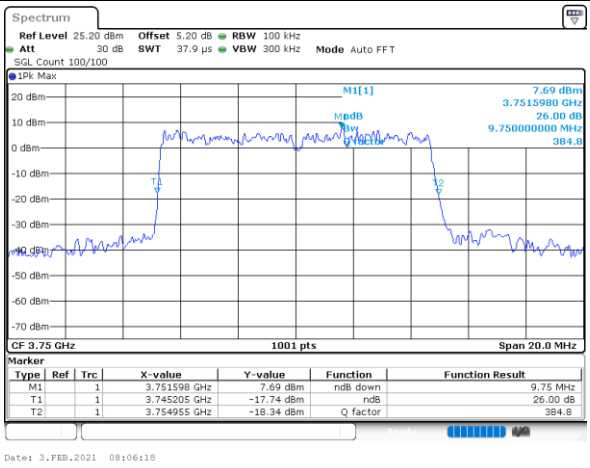
16QAM

Middle Channel



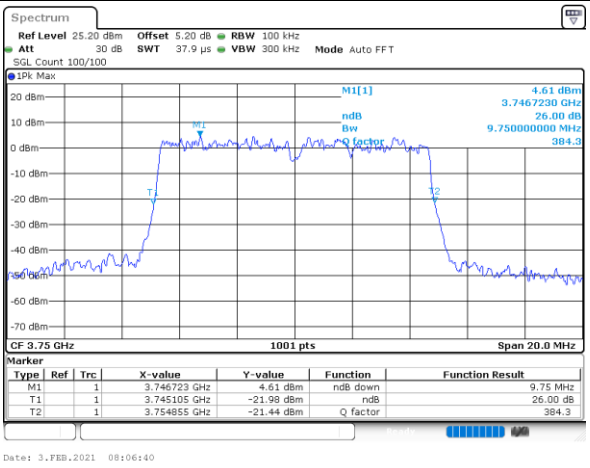
64QAM

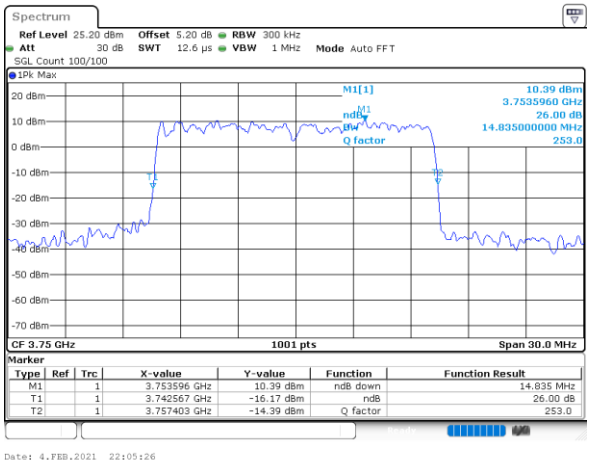
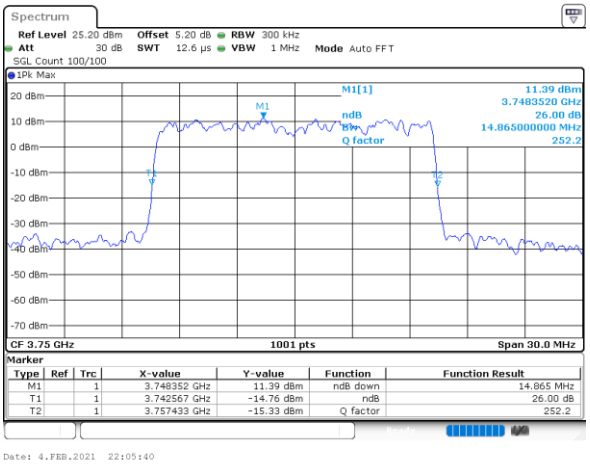
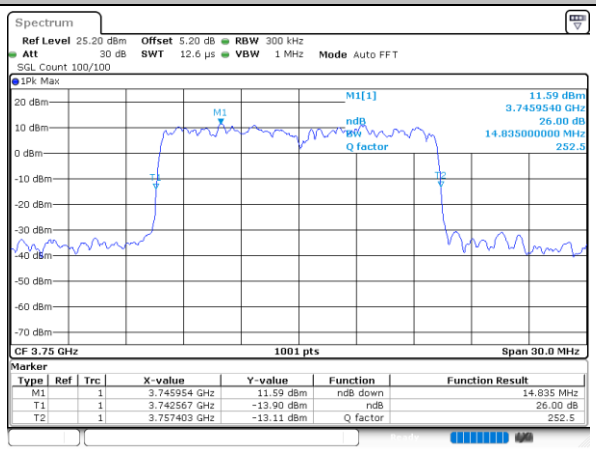
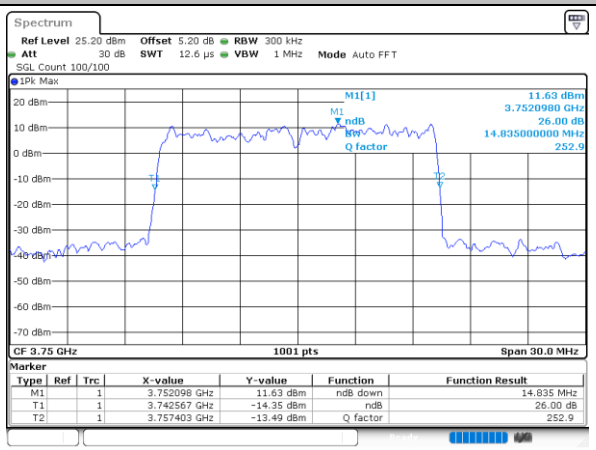
Middle Channel



256QAM

Middle Channel

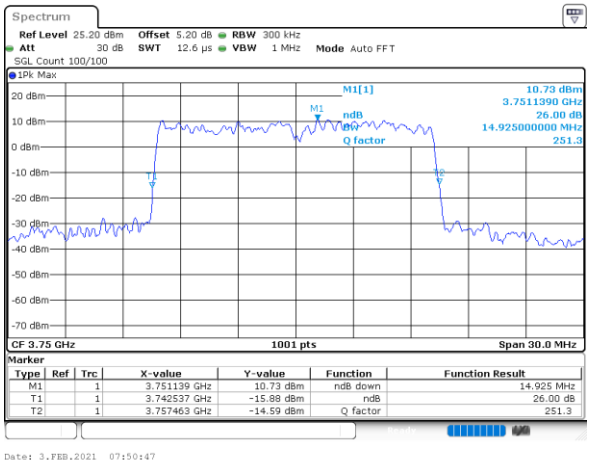


FR1 UL-MIMO n78 / 15MHz / CP-OFDM (M2)	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 UL-MIMO n78 / 15MHz / CP-OFDM (M)

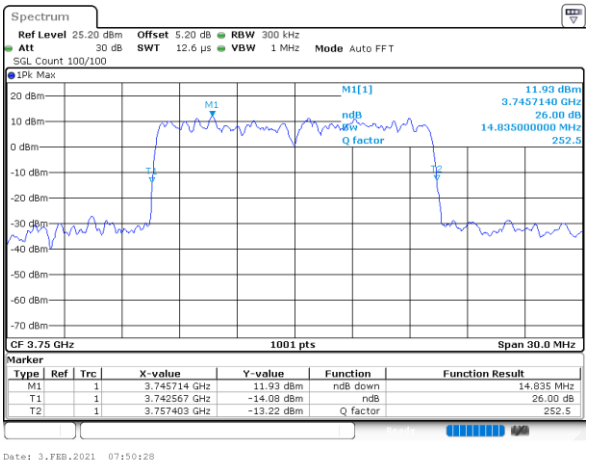
QPSK

Middle Channel



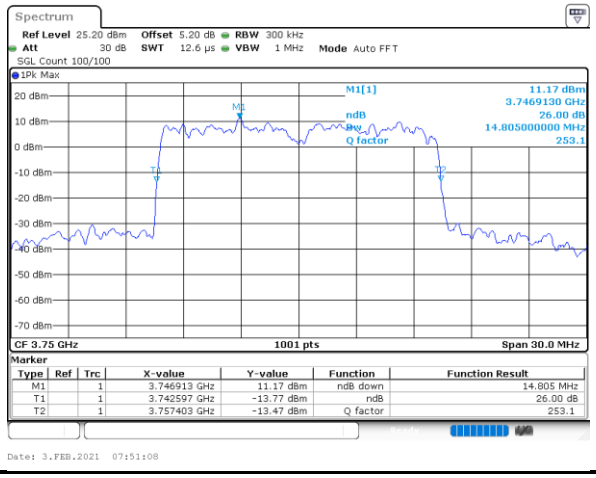
16QAM

Middle Channel



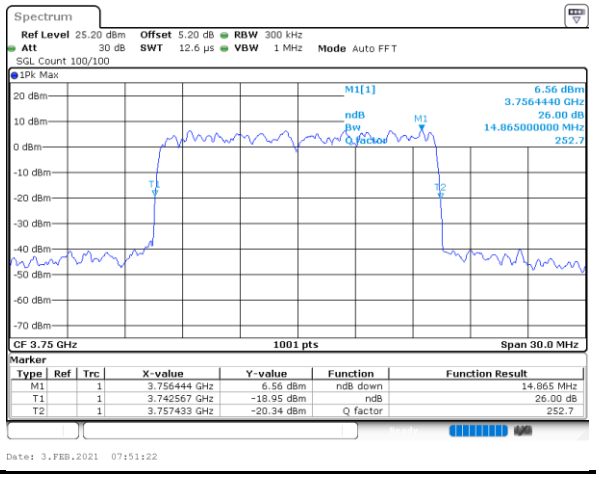
64QAM

Middle Channel



256QAM

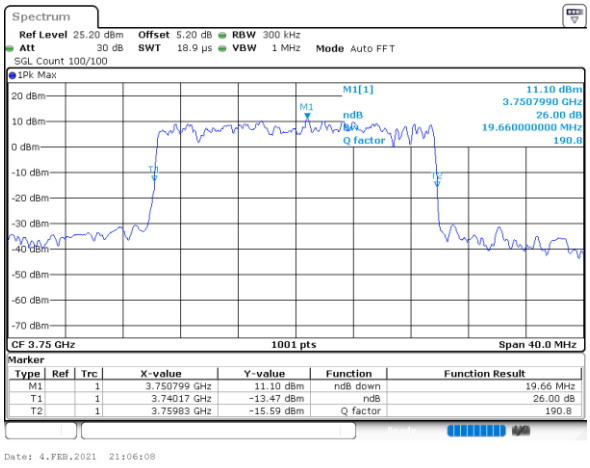
Middle Channel



FR1 UL-MIMO n78 / 20MHz / CP-OFDM (M2)

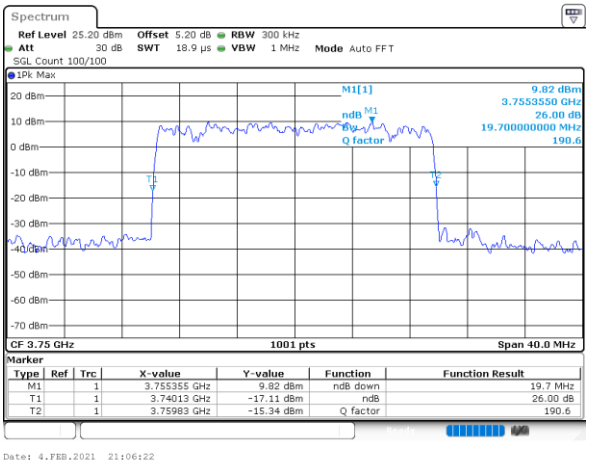
QPSK

Middle Channel



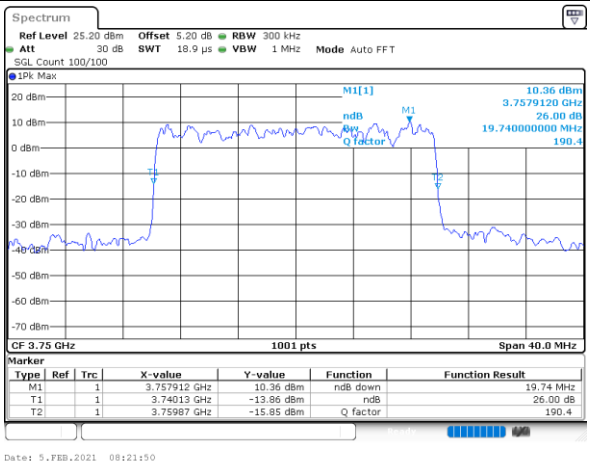
16QAM

Middle Channel



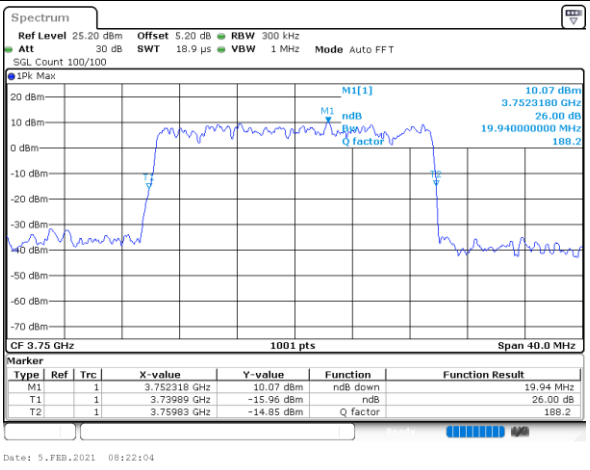
64QAM

Middle Channel



256QAM

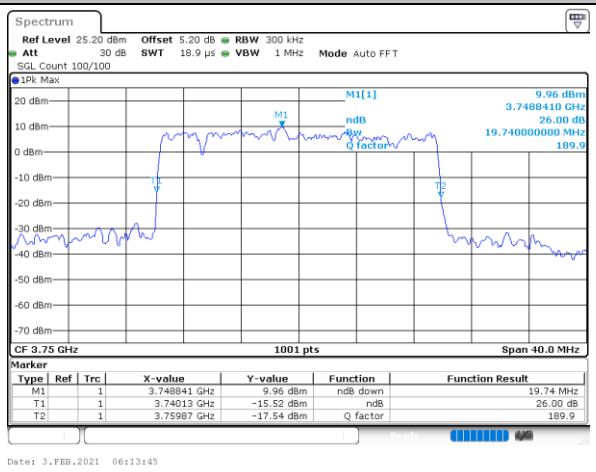
Middle Channel



FR1 UL-MIMO n78 / 20MHz / CP-OFDM (M)

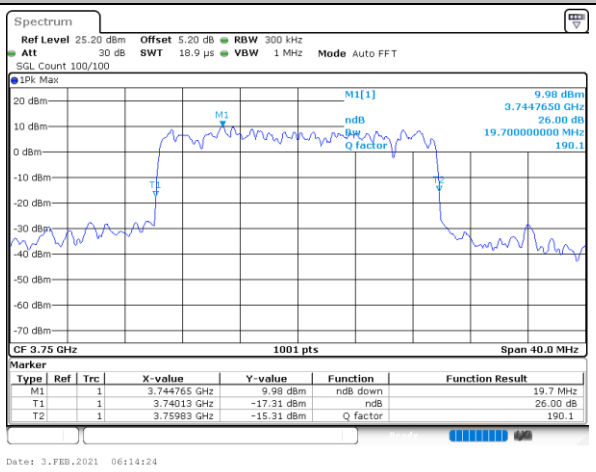
QPSK

Middle Channel



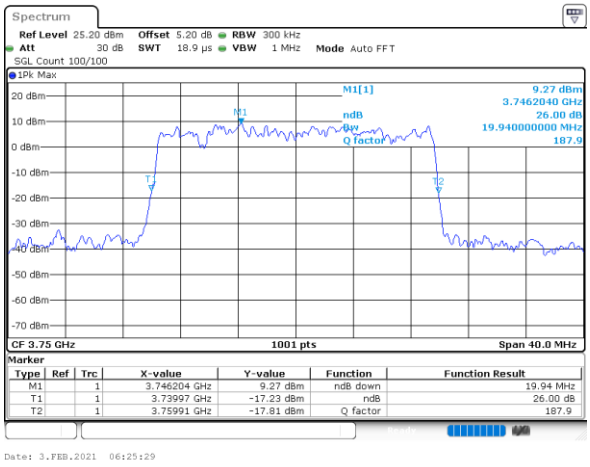
16QAM

Middle Channel



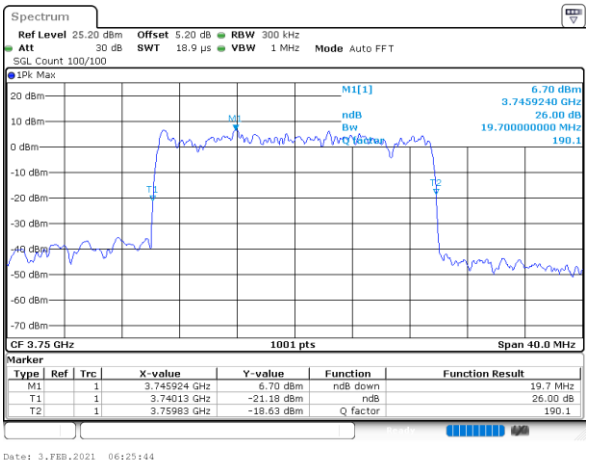
64QAM

Middle Channel



256QAM

Middle Channel



Occupied Bandwidth

Mode	FR1 UL-MIMO n78 : 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	9.27	9.29	9.29	9.29	9.27	9.29	9.29	9.31

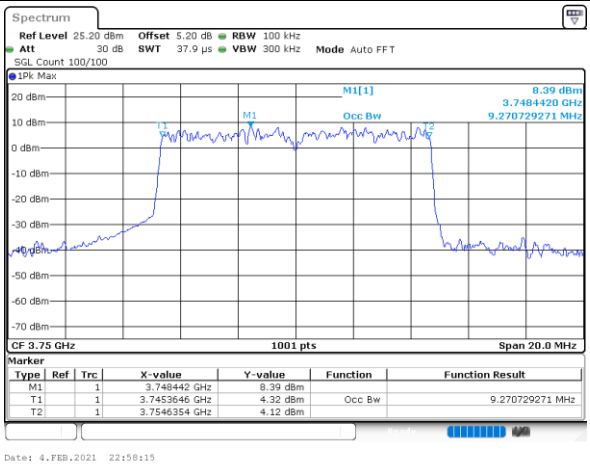
Mode	FR1 UL-MIMO n78 : OBW(MHz) / CP-OFDM							
	M2				M			
BW	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.15	14.18	14.15	14.15	14.18	14.12	14.15	14.12

Mode	FR1 UL-MIMO n78 : 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	18.78	18.98	18.98	18.94	18.94	18.98	18.98	18.90

FR1 UL-MIMO n78 / 10MHz / CP-OFDM (M2)

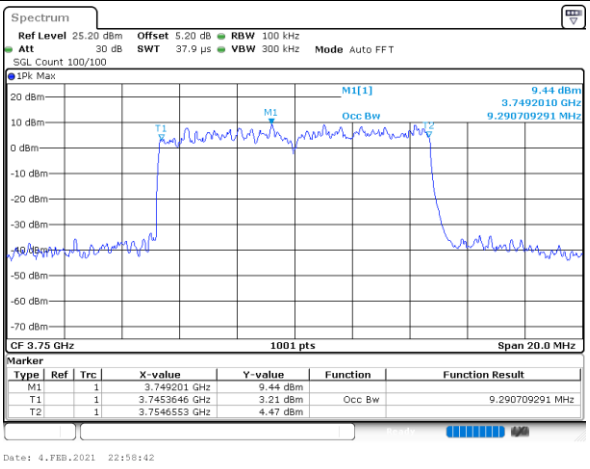
QPSK

Middle Channel



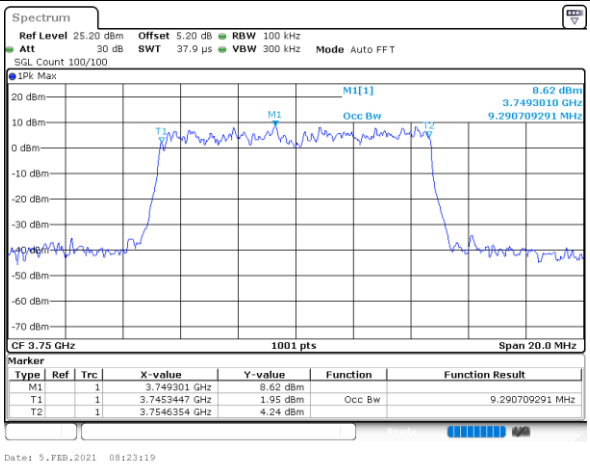
16QAM

Middle Channel



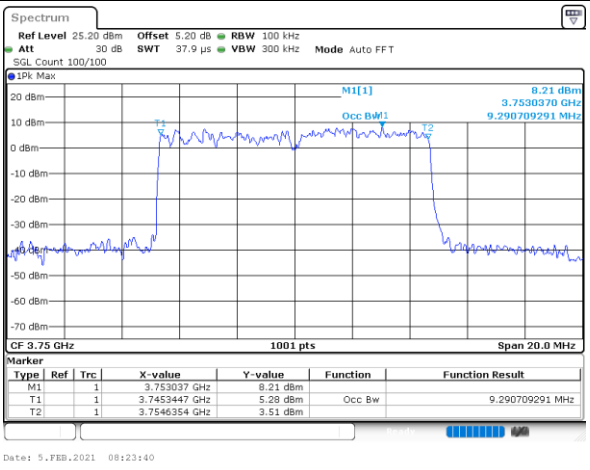
64QAM

Middle Channel



256QAM

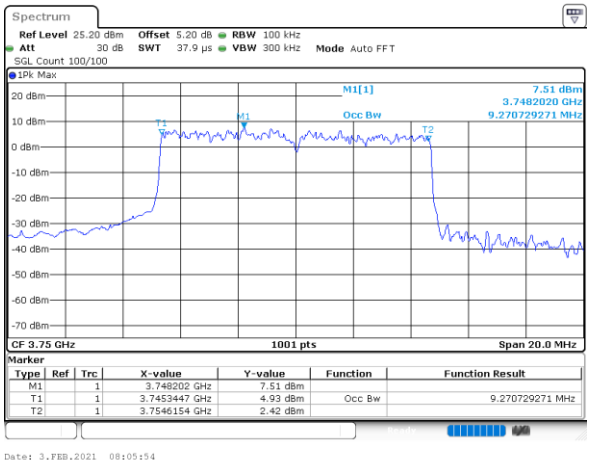
Middle Channel



FR1 UL-MIMO n78 / 10MHz / CP-OFDM (M)

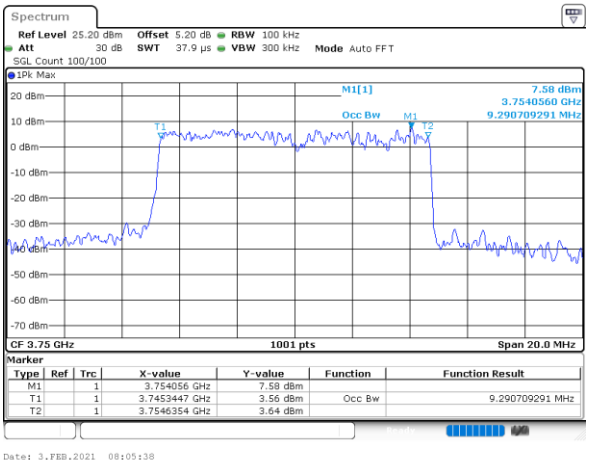
QPSK

Middle Channel



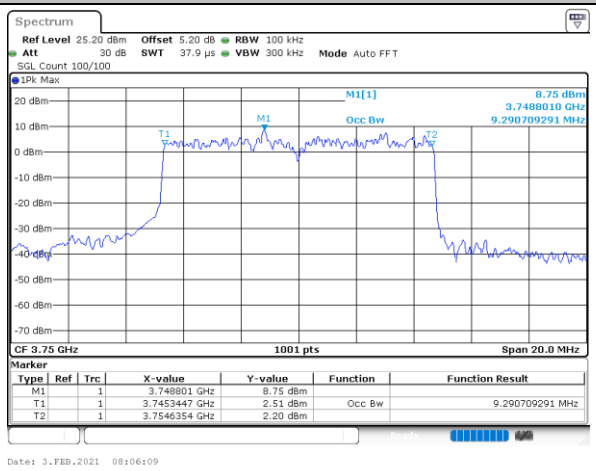
16QAM

Middle Channel



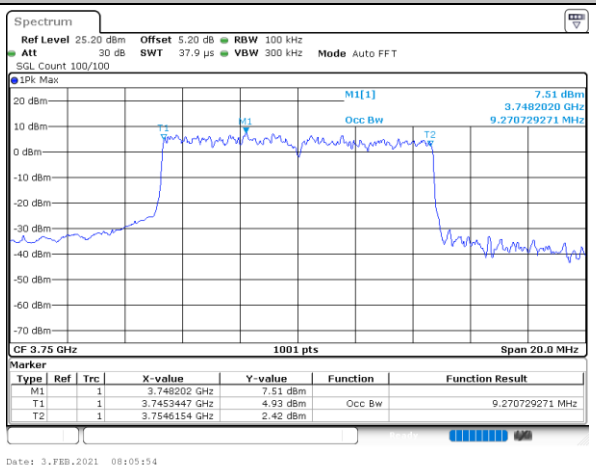
64QAM

Middle Channel



256QAM

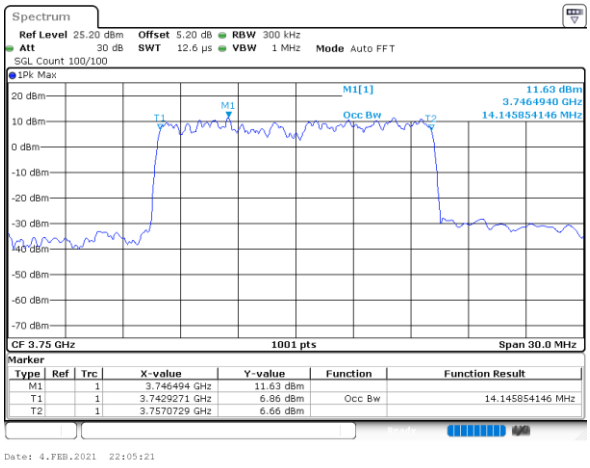
Middle Channel



FR1 UL-MIMO n78 / 15MHz / CP-OFDM (M2)

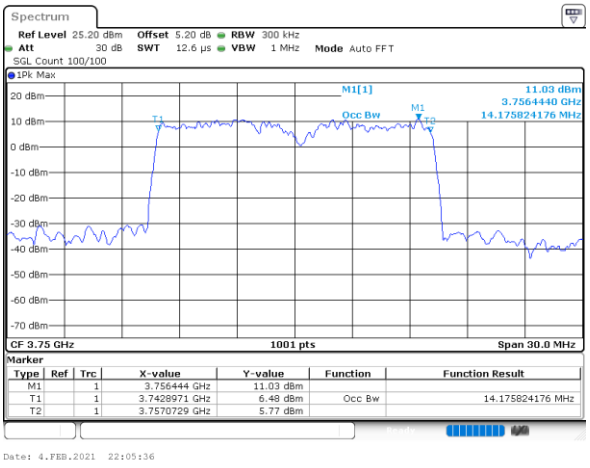
QPSK

Middle Channel



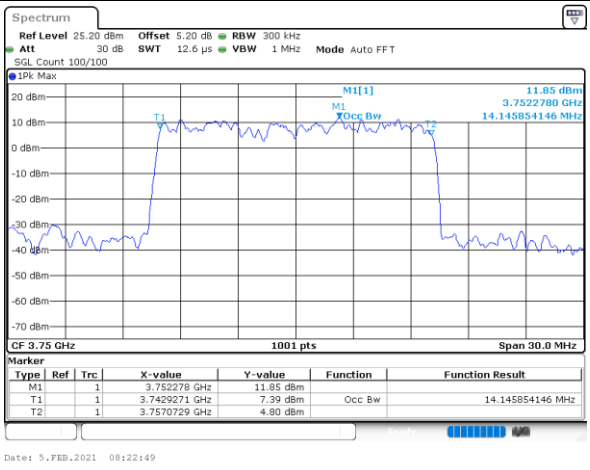
16QAM

Middle Channel



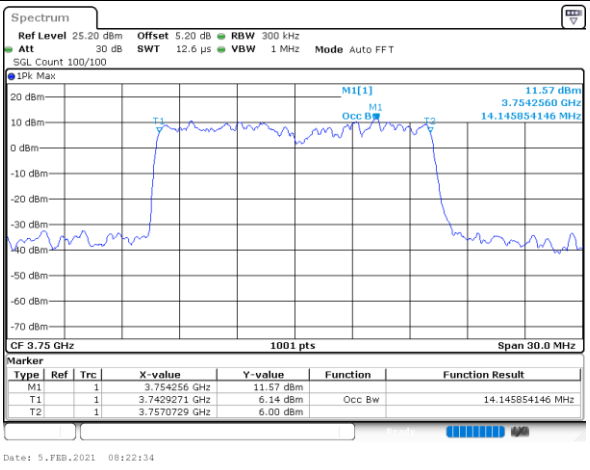
64QAM

Middle Channel



256QAM

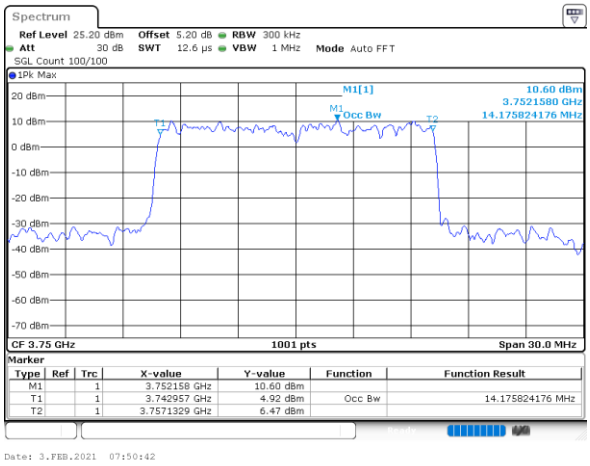
Middle Channel



FR1 UL-MIMO n78 / 15MHz / CP-OFDM (M)

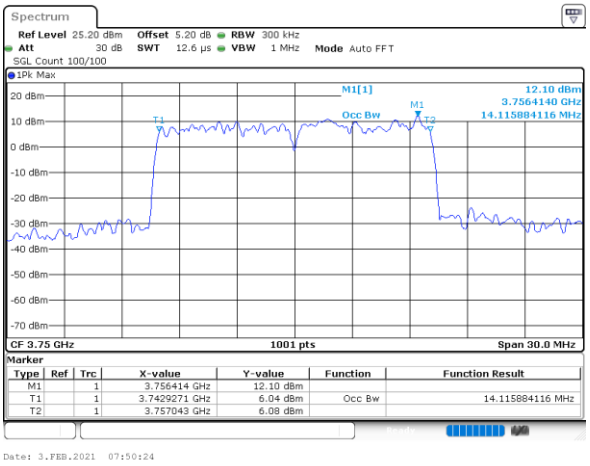
QPSK

Middle Channel



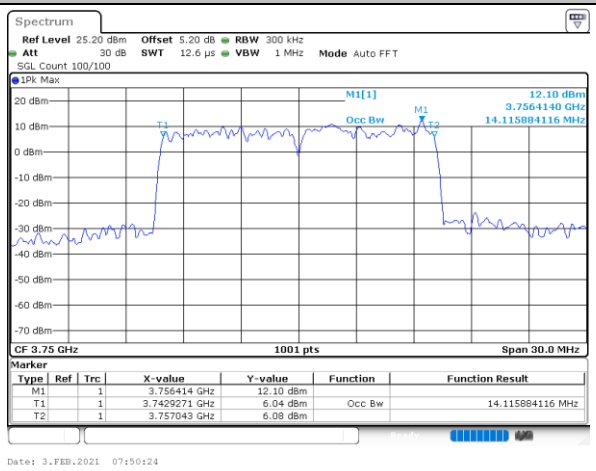
16QAM

Middle Channel



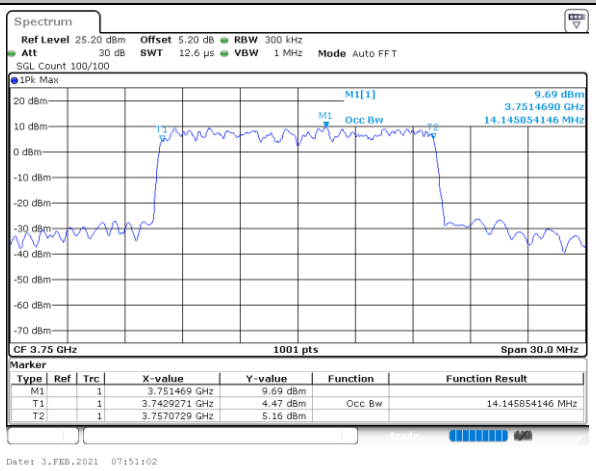
64QAM

Middle Channel



256QAM

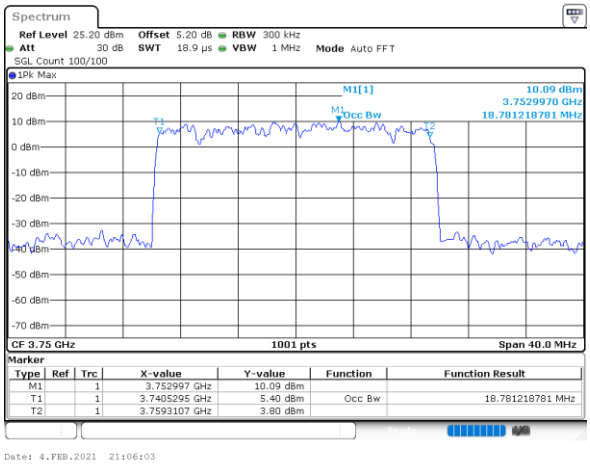
Middle Channel



FR1 UL-MIMO n78 / 20MHz / CP-OFDM (M2)

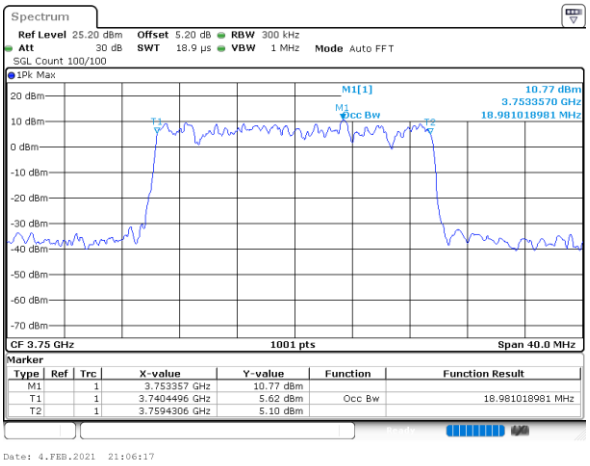
QPSK

Middle Channel



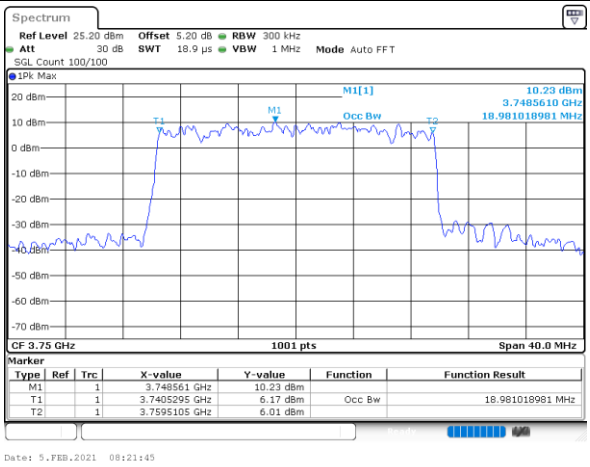
16QAM

Middle Channel



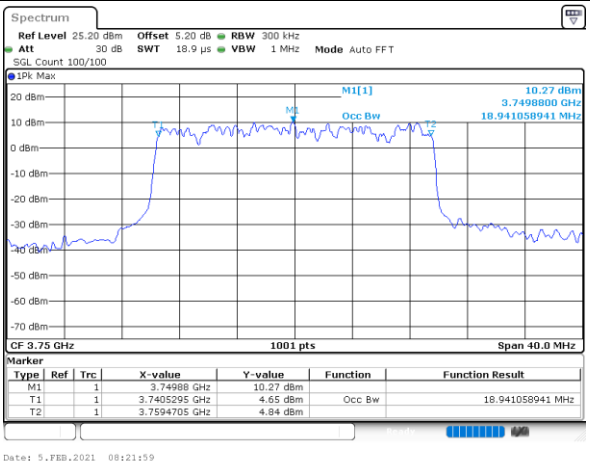
64QAM

Middle Channel



256QAM

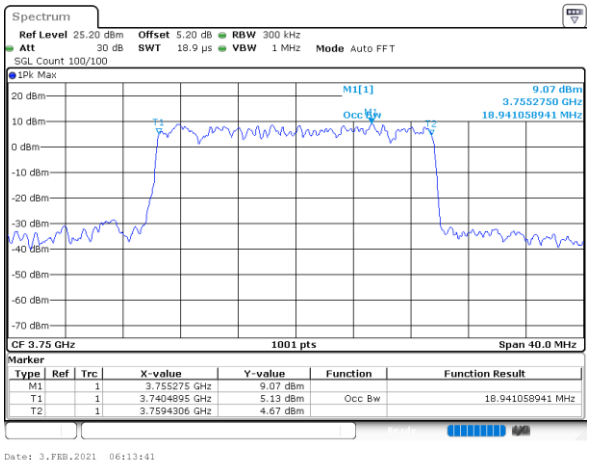
Middle Channel



FR1 UL-MIMO n78 / 20MHz / CP-OFDM (M)

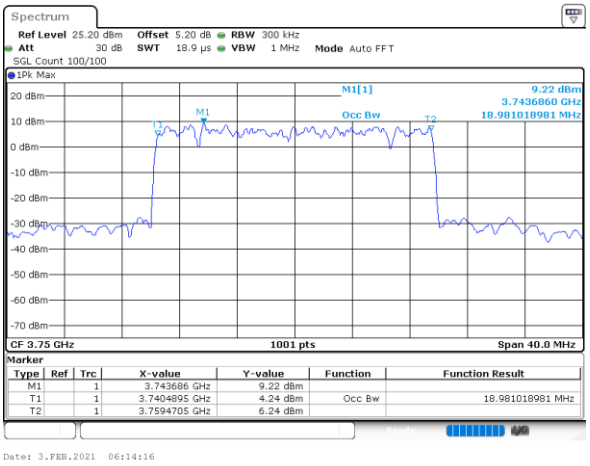
QPSK

Middle Channel



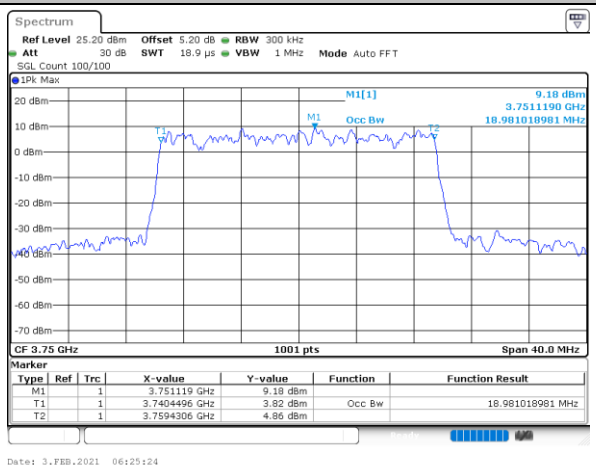
16QAM

Middle Channel



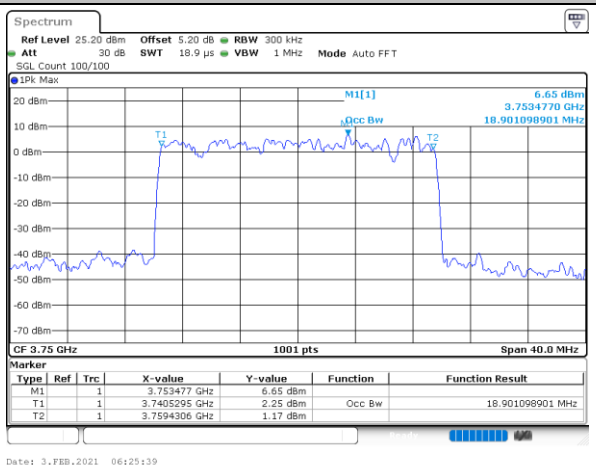
64QAM

Middle Channel



256QAM

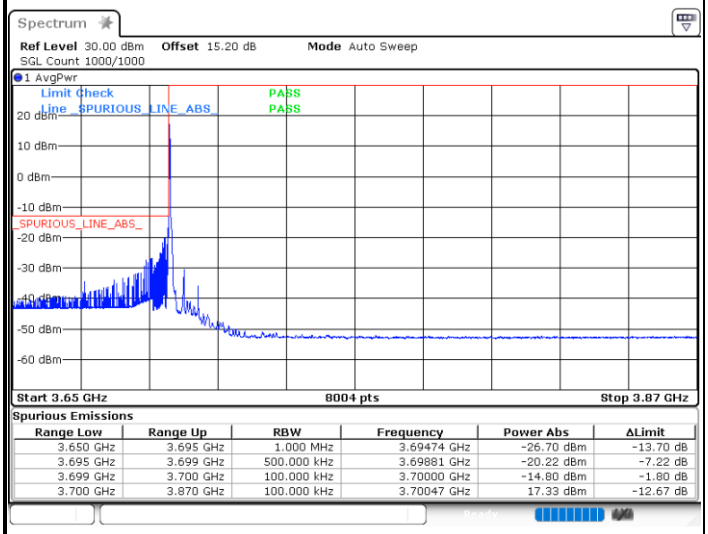
Middle Channel



Conducted Band Edge

FR1 UL-MIMO n78 / 10MHz / CP-OFDM QPSK (M2)

Lowest Band Edge / 1 RB

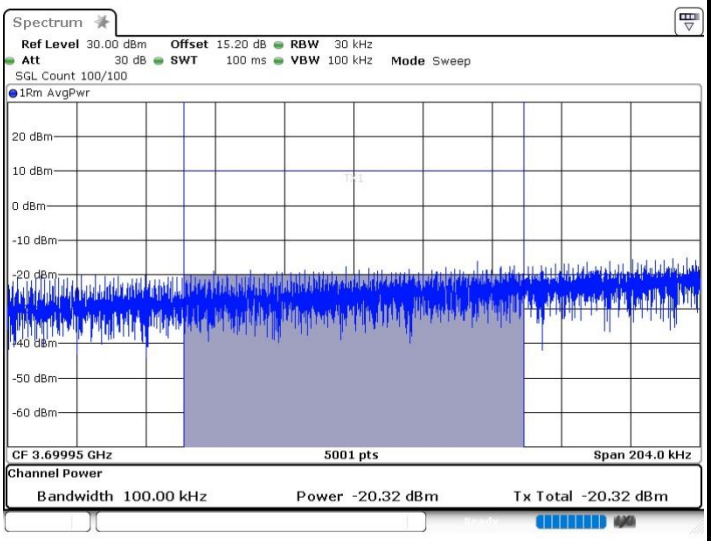


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.695 GHz	1.000 MHz	3.69474 GHz	-26.70 dBm	-13.70 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69881 GHz	-20.22 dBm	-7.22 dB
3.699 GHz	3.700 GHz	100.000 kHz	3.70000 GHz	-14.80 dBm	-1.80 dB
3.700 GHz	3.870 GHz	100.000 kHz	3.70047 GHz	17.33 dBm	-12.67 dB

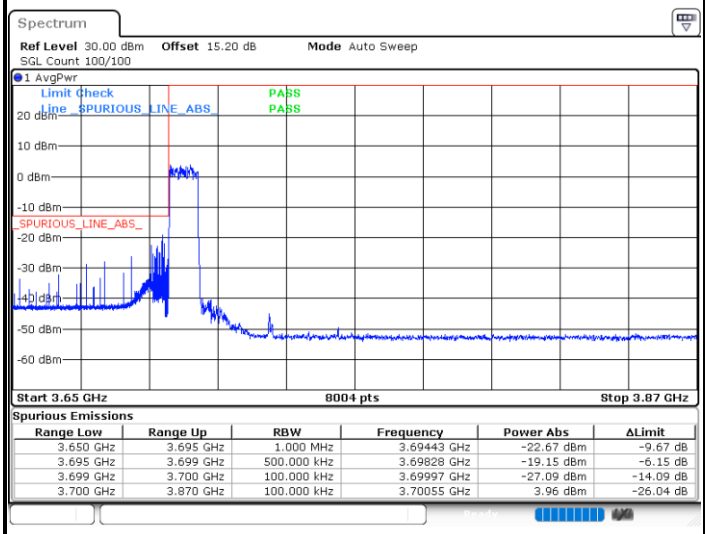
Date: 3.MAR.2021 02:53:08

Channel Power < -13dBm Pass



Date: 3.MAR.2021 02:55:28

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.695 GHz	1.000 MHz	3.69443 GHz	-22.67 dBm	-9.67 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69828 GHz	-19.15 dBm	-6.15 dB
3.699 GHz	3.700 GHz	100.000 kHz	3.69997 GHz	-27.09 dBm	-14.09 dB
3.700 GHz	3.870 GHz	100.000 kHz	3.70055 GHz	3.96 dBm	-26.04 dB

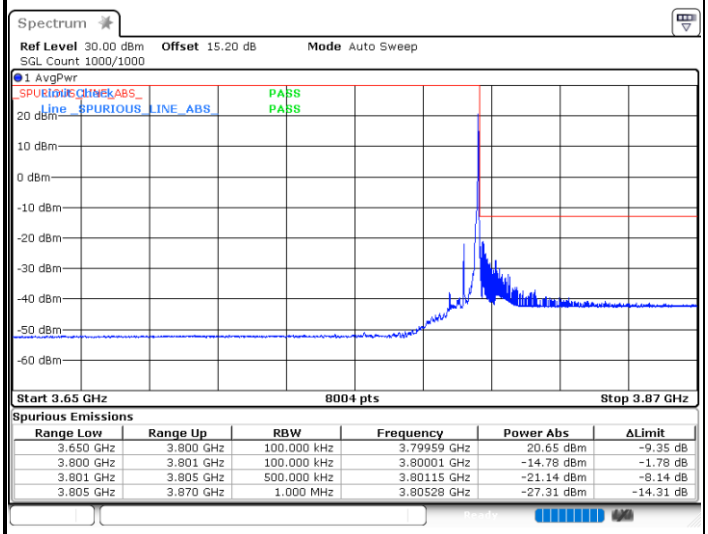
Date: 3.MAR.2021 02:58:45

Channel Power < -13dBm Pass

/

FR1 UL-MIMO n78 / 10MHz / CP-OFDM QPSK (M2)

Highest Band Edge / 1 RB

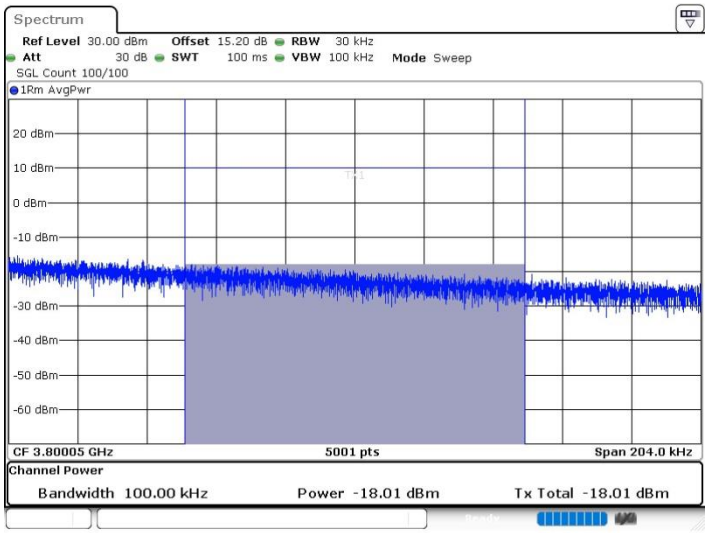


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.800 GHz	100.000 kHz	3.79959 GHz	20.65 dBm	-9.35 dB
3.800 GHz	3.801 GHz	100.000 kHz	3.80001 GHz	-14.78 dBm	-1.78 dB
3.801 GHz	3.805 GHz	500.000 kHz	3.80115 GHz	-21.14 dBm	-8.14 dB
3.805 GHz	3.870 GHz	1.000 MHz	3.80528 GHz	-27.31 dBm	-14.31 dB

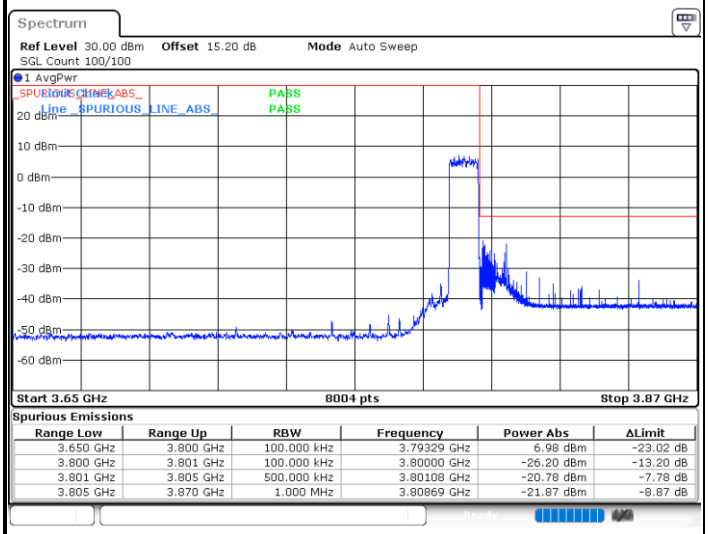
Date: 11.FEB.2021 01:53:19

Channel Power < -13dBm Pass



Date: 11.FEB.2021 01:57:28

Highest Band Edge / Full RB



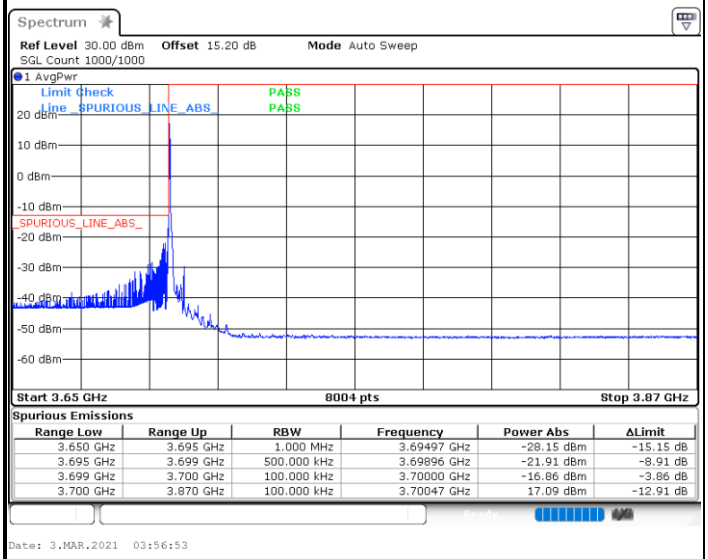
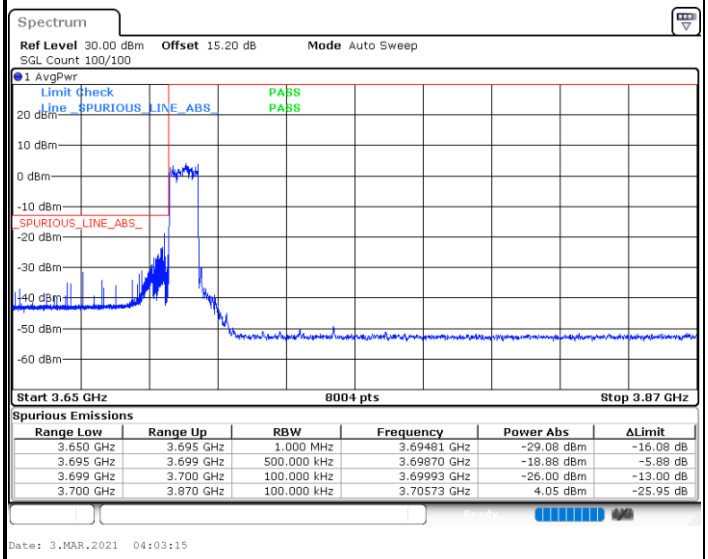
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.800 GHz	100.000 kHz	3.79329 GHz	6.98 dBm	-23.02 dB
3.800 GHz	3.801 GHz	100.000 kHz	3.80000 GHz	-26.20 dBm	-13.20 dB
3.801 GHz	3.805 GHz	500.000 kHz	3.80108 GHz	-20.78 dBm	-7.78 dB
3.805 GHz	3.870 GHz	1.000 MHz	3.80869 GHz	-21.87 dBm	-8.87 dB

Date: 11.FEB.2021 01:51:00

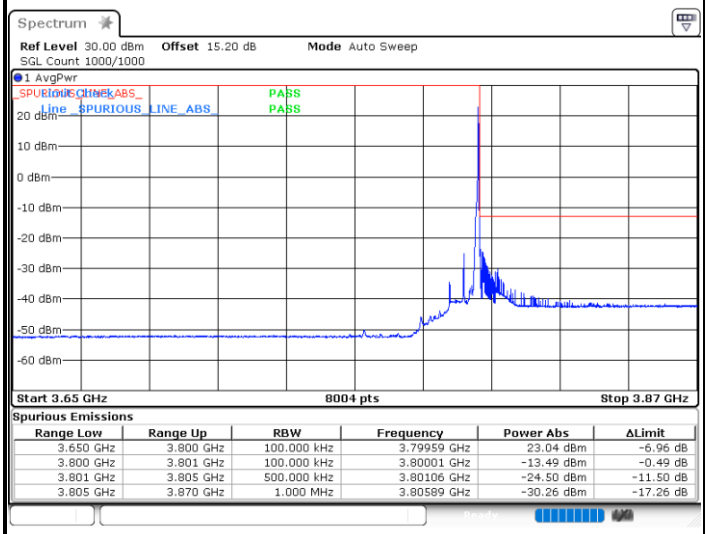
Channel Power < -13dBm Pass

/

FR1 UL-MIMO n78 / 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 3.650 GHz / 3.695 GHz / 1.000 MHz / 3.69497 GHz / -28.15 dBm / -15.15 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69896 GHz / -21.91 dBm / -8.91 dB 3.699 GHz / 3.700 GHz / 100.000 kHz / 3.70000 GHz / -16.86 dBm / -3.86 dB 3.700 GHz / 3.870 GHz / 100.000 kHz / 3.70047 GHz / 17.09 dBm / -12.91 dB Date: 3.MAR.2021 03:56:53	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.650 GHz / 3.695 GHz / 1.000 MHz / 3.69481 GHz / -29.08 dBm / -16.08 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69870 GHz / -18.88 dBm / -5.88 dB 3.699 GHz / 3.700 GHz / 100.000 kHz / 3.69993 GHz / -26.00 dBm / -13.00 dB 3.700 GHz / 3.870 GHz / 100.000 kHz / 3.70573 GHz / 4.05 dBm / -25.95 dB Date: 3.MAR.2021 04:03:15	/

FR1 UL-MIMO n78 / 10MHz / CP-OFDM QPSK (M)

Highest Band Edge / 1 RB

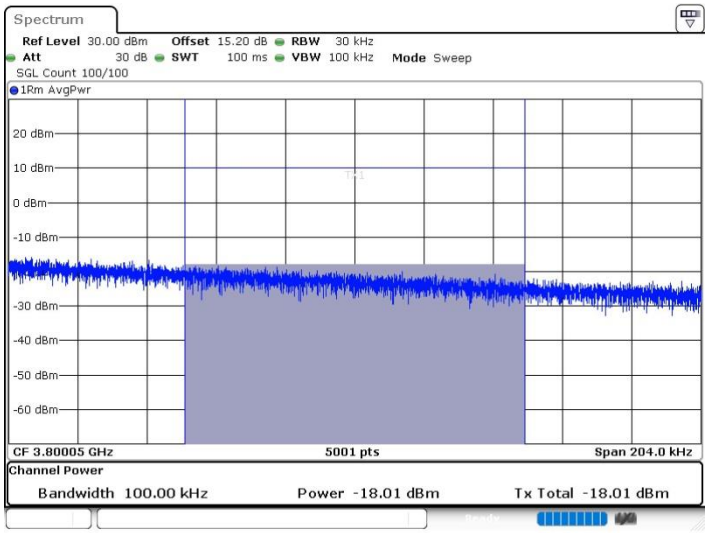


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.800 GHz	100.000 kHz	3.79959 GHz	23.04 dBm	-6.96 dB
3.800 GHz	3.801 GHz	100.000 kHz	3.80001 GHz	-13.49 dBm	-0.49 dB
3.801 GHz	3.805 GHz	500.000 kHz	3.80106 GHz	-24.50 dBm	-11.50 dB
3.805 GHz	3.870 GHz	1.000 MHz	3.80589 GHz	-30.26 dBm	-17.26 dB

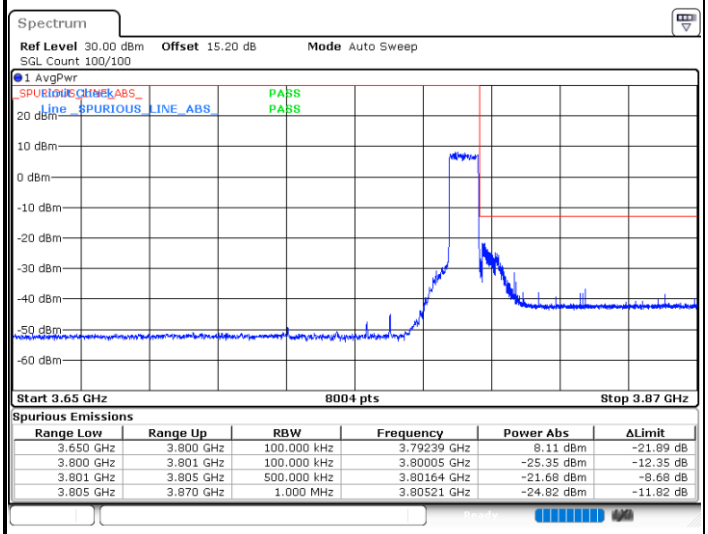
Date: 11.FEB.2021 01:29:00

Channel Power < -13dBm Pass



Date: 11.FEB.2021 01:57:45

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.800 GHz	100.000 kHz	3.79239 GHz	8.11 dBm	-21.89 dB
3.800 GHz	3.801 GHz	100.000 kHz	3.80005 GHz	-25.35 dBm	-12.35 dB
3.801 GHz	3.805 GHz	500.000 kHz	3.80164 GHz	-21.68 dBm	-8.68 dB
3.805 GHz	3.870 GHz	1.000 MHz	3.80521 GHz	-24.82 dBm	-11.82 dB

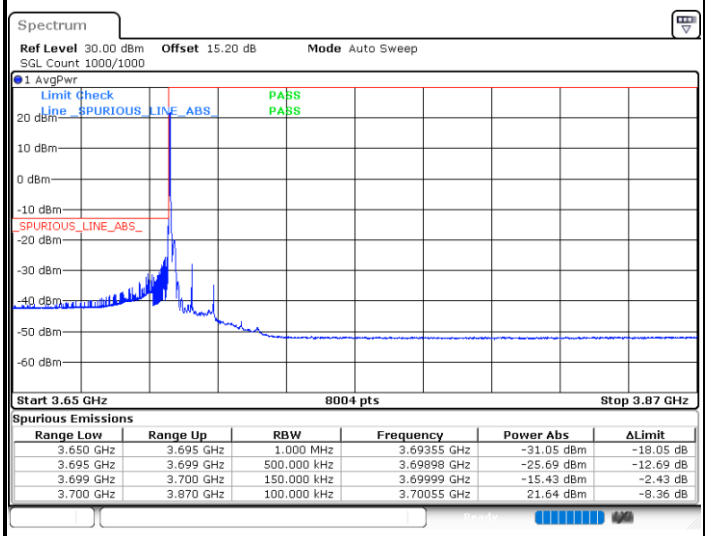
Date: 11.FEB.2021 01:31:15

Channel Power < -13dBm Pass

/

FR1 UL-MIMO n78 / 15MHz / CP-OFDM QPSK (M2)

Lowest Band Edge / 1 RB

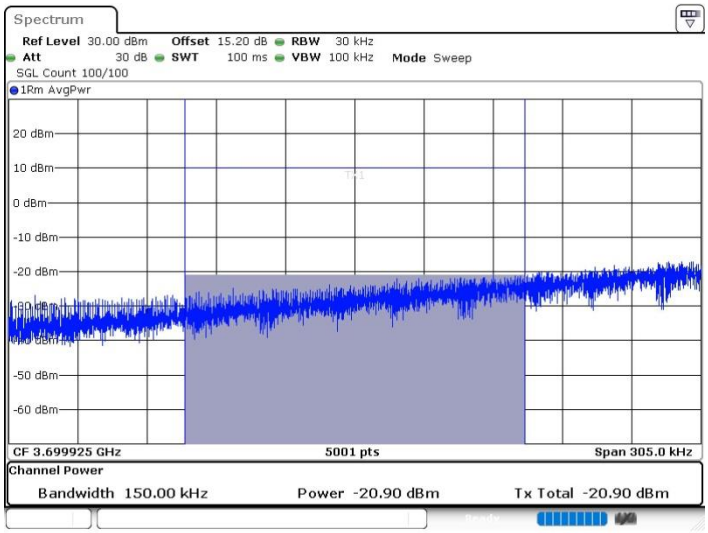


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.695 GHz	1.000 MHz	3.69355 GHz	-31.05 dBm	-18.05 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69898 GHz	-25.69 dBm	-12.69 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.69999 GHz	-15.43 dBm	-2.43 dB
3.700 GHz	3.870 GHz	100.000 kHz	3.70055 GHz	21.64 dBm	-8.36 dB

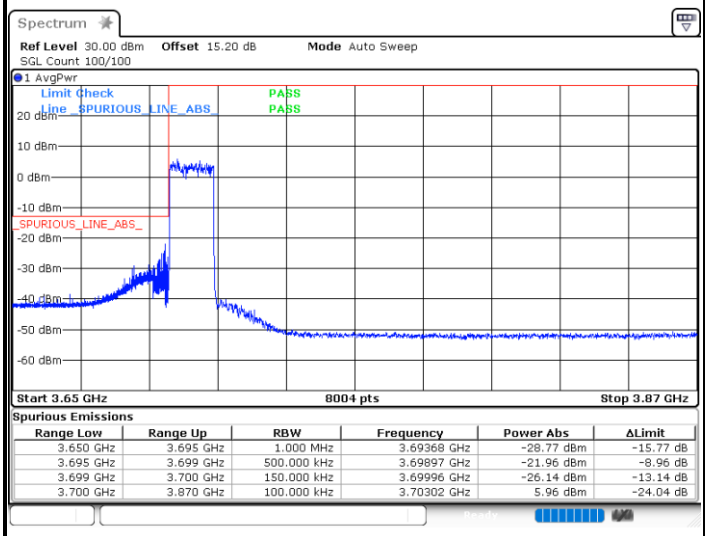
Date: 12.MAR.2021 05:16:02

Channel Power < -13dBm Pass



Date: 12.MAR.2021 05:22:54

Lowest Band Edge / Full RB



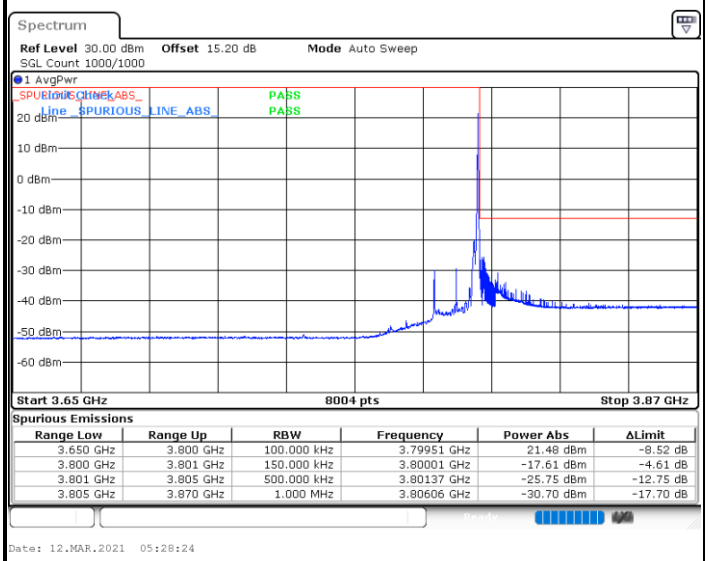
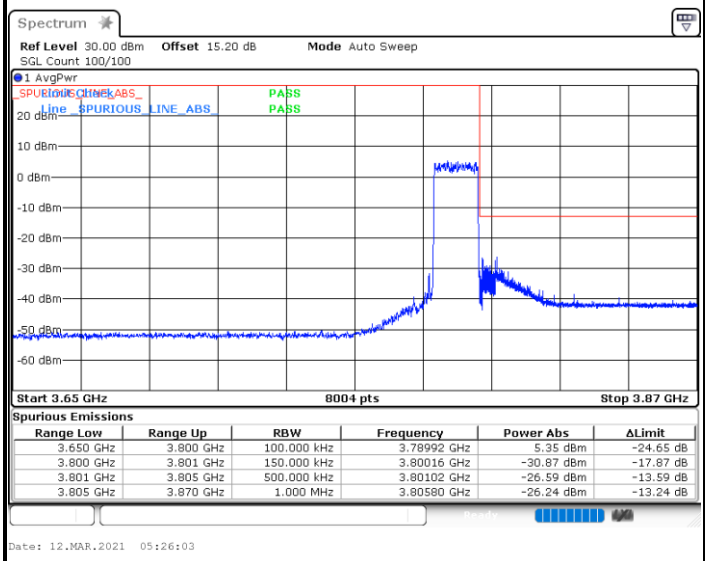
Spurious Emissions

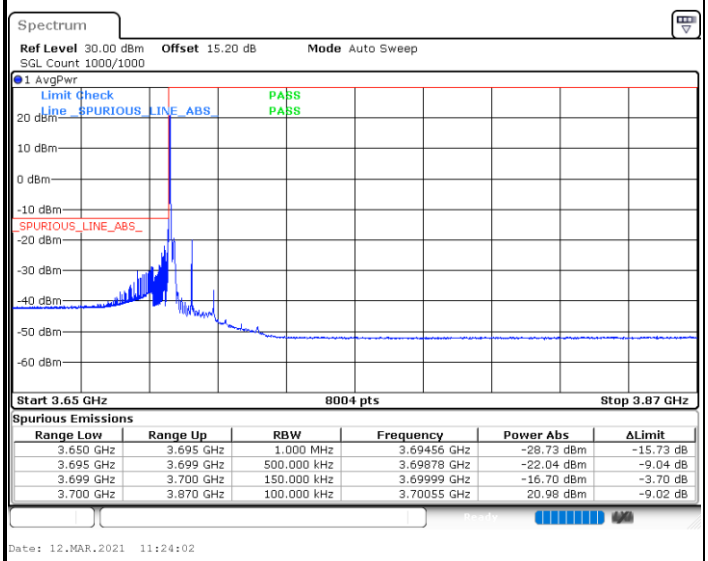
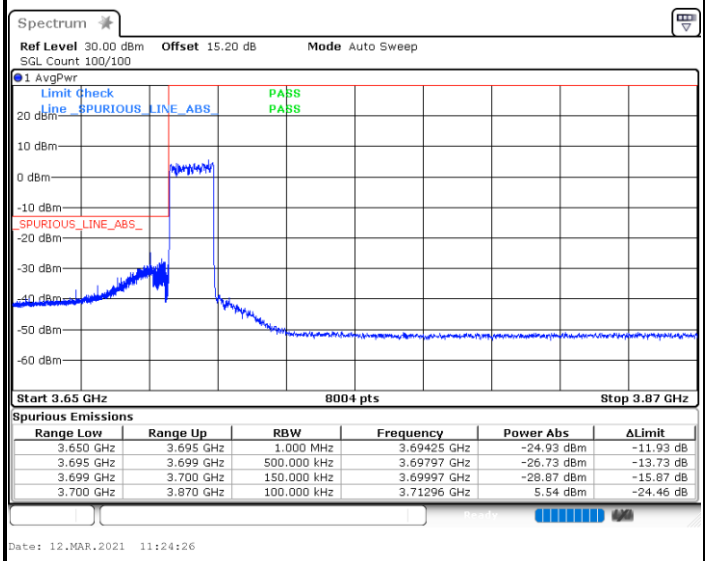
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.695 GHz	1.000 MHz	3.69368 GHz	-28.77 dBm	-15.77 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69897 GHz	-21.96 dBm	-8.96 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.69996 GHz	-26.14 dBm	-13.14 dB
3.700 GHz	3.870 GHz	100.000 kHz	3.70302 GHz	5.96 dBm	-24.04 dB

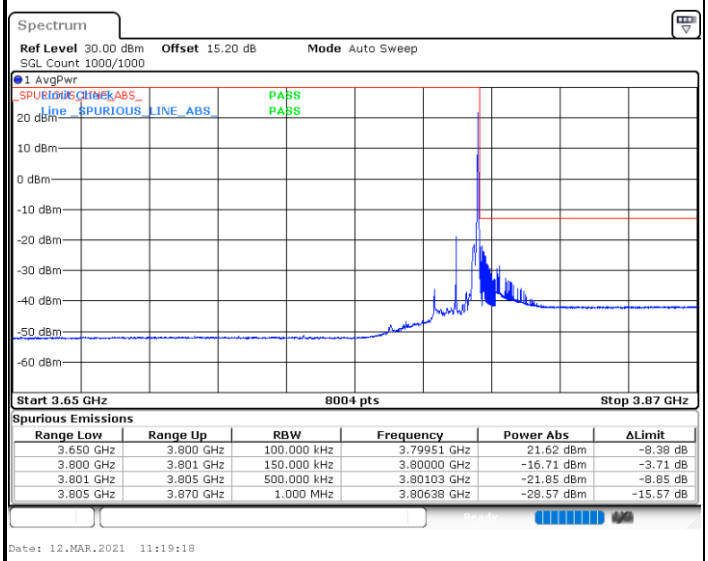
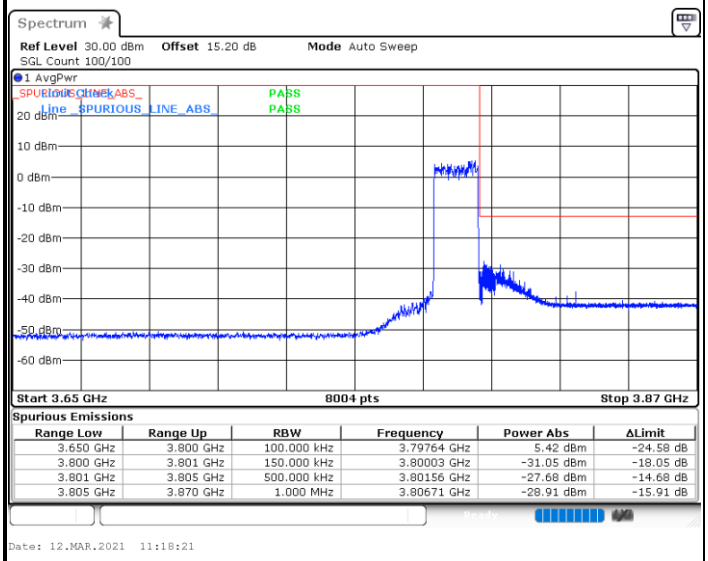
Date: 12.MAR.2021 05:13:20

Channel Power < -13dBm Pass

/

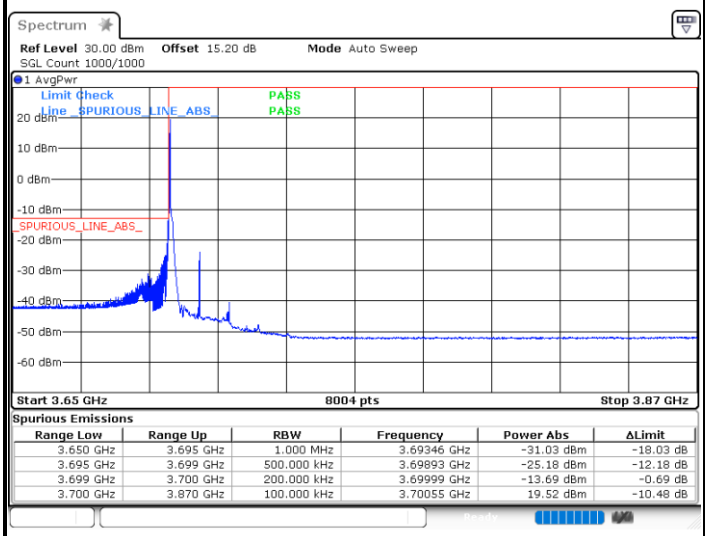
FR1 UL-MIMO n78 /15MHz / CP-OFDM QPSK (M2)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 UL-MIMO n78 / 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 n78 /15MHz / 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 n78 / 20MHz / CP-OFDM QPSK (M2)

Lowest Band Edge / 1 RB

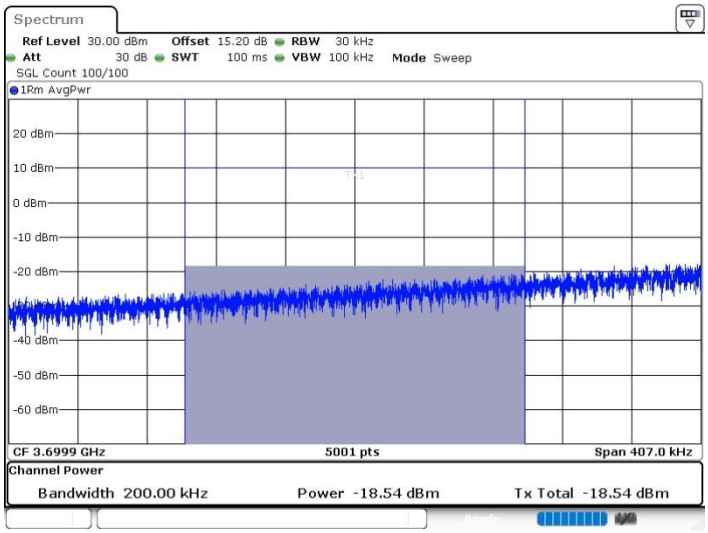


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.695 GHz	1.000 MHz	3.69346 GHz	-31.03 dBm	-18.03 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69893 GHz	-25.18 dBm	-12.18 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-13.69 dBm	-0.69 dB
3.700 GHz	3.870 GHz	100.000 kHz	3.70055 GHz	19.52 dBm	-10.48 dB

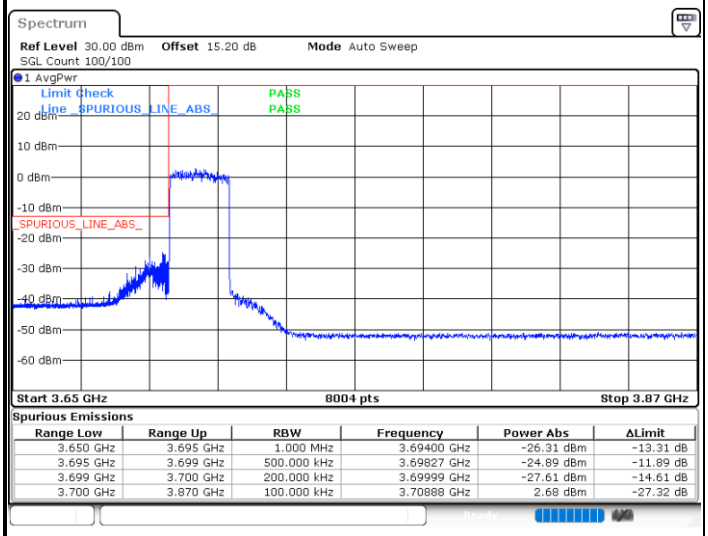
Date: 14.MAR.2021 02:21:06

Channel Power < -13dBm Pass



Date: 14.MAR.2021 02:46:02

Lowest Band Edge / Full RB



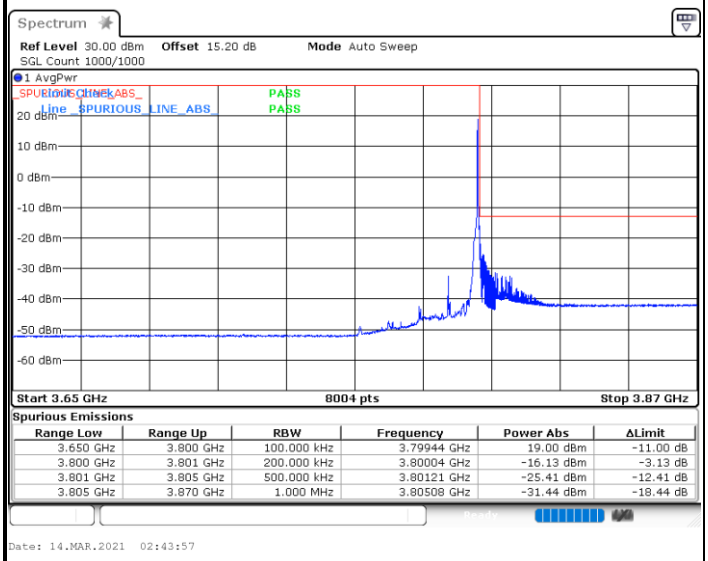
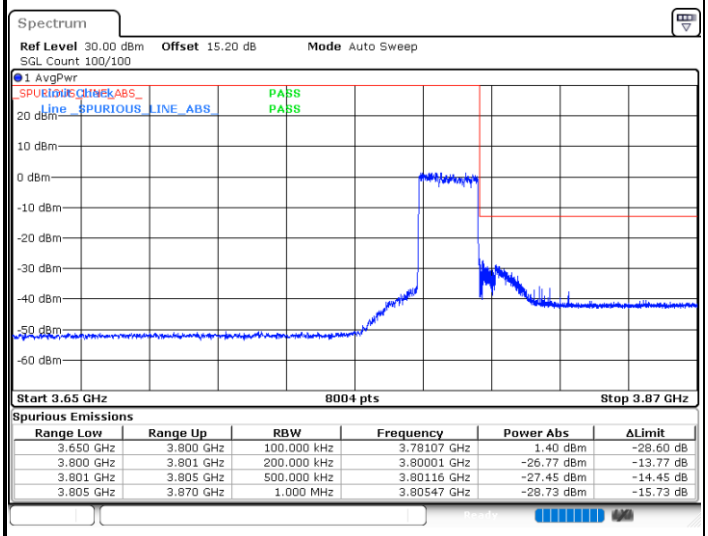
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.695 GHz	1.000 MHz	3.69400 GHz	-26.31 dBm	-13.31 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69827 GHz	-24.89 dBm	-11.89 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-27.61 dBm	-14.61 dB
3.700 GHz	3.870 GHz	100.000 kHz	3.70888 GHz	2.68 dBm	-27.32 dB

Date: 14.MAR.2021 02:30:59

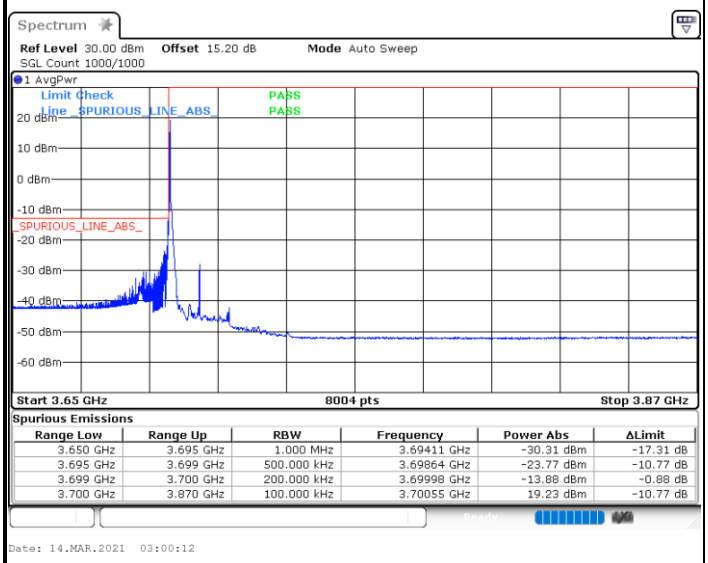
Channel Power < -13dBm Pass

/

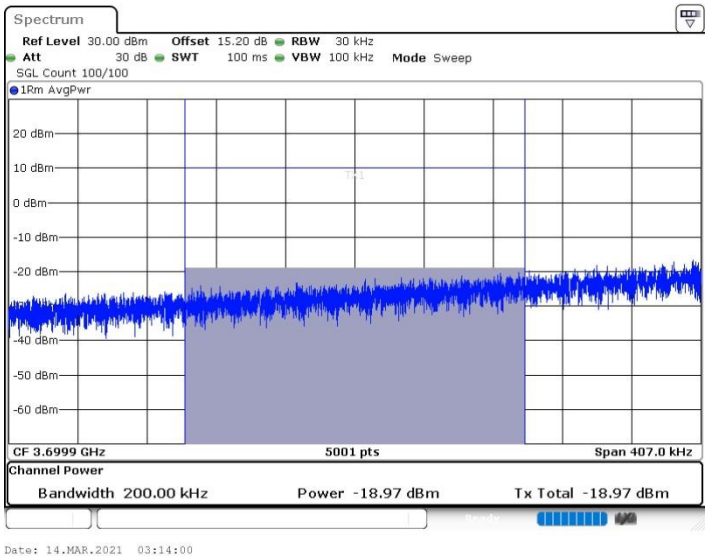
FR1 UL-MIMO n78 / 20MHz / CP-OFDM QPSK (M2)	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.650 GHz / 3.800 GHz / 100.000 kHz / 3.79944 GHz / 19.00 dBm / -11.00 dB 3.800 GHz / 3.801 GHz / 200.000 kHz / 3.80004 GHz / -16.13 dBm / -3.13 dB 3.801 GHz / 3.805 GHz / 500.000 kHz / 3.80121 GHz / -25.41 dBm / -12.41 dB 3.805 GHz / 3.870 GHz / 1.000 MHz / 3.80508 GHz / -31.44 dBm / -18.44 dB Date: 14.MAR.2021 02:43:57	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.650 GHz / 3.800 GHz / 100.000 kHz / 3.78107 GHz / 1.40 dBm / -28.60 dB 3.800 GHz / 3.801 GHz / 200.000 kHz / 3.80001 GHz / -26.77 dBm / -13.77 dB 3.801 GHz / 3.805 GHz / 500.000 kHz / 3.80116 GHz / -27.45 dBm / -14.45 dB 3.805 GHz / 3.870 GHz / 1.000 MHz / 3.80547 GHz / -28.73 dBm / -15.73 dB Date: 14.MAR.2021 02:33:22	/

FR1 UL-MIMO n78 / 20MHz / CP-OFDM QPSK (M)

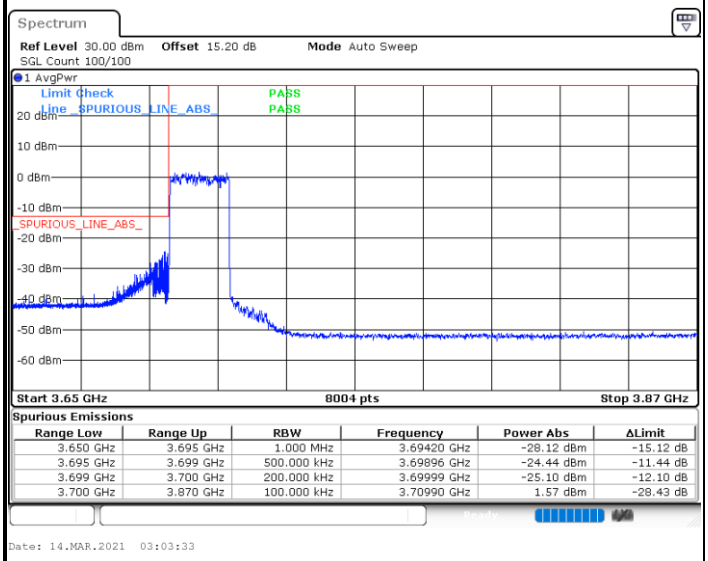
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

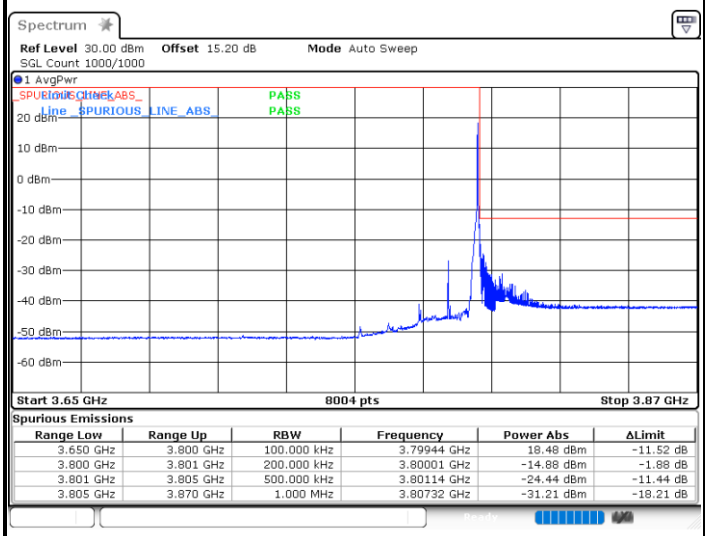


Channel Power < -13dBm Pass

/

FR1 UL-MIMO n78 / 20MHz / CP-OFDM QPSK (M)

Highest Band Edge / 1 RB

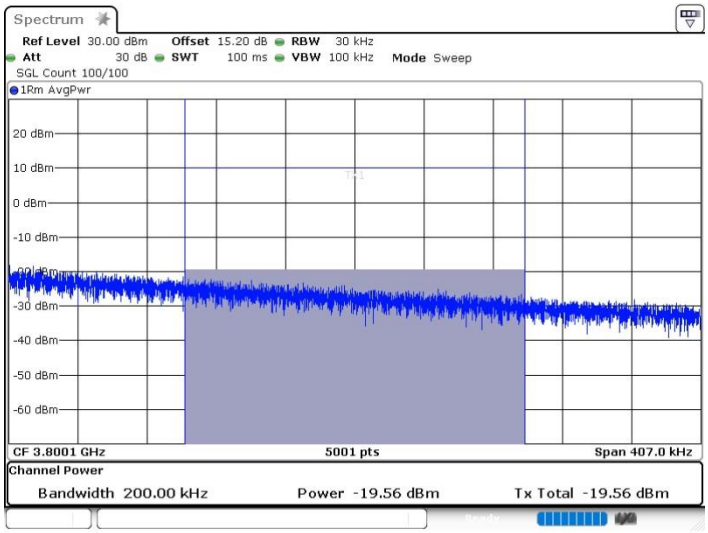


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.800 GHz	100.000 kHz	3.79944 GHz	18.48 dBm	-11.52 dB
3.800 GHz	3.801 GHz	200.000 kHz	3.80001 GHz	-14.88 dBm	-1.88 dB
3.801 GHz	3.805 GHz	500.000 kHz	3.80114 GHz	-24.44 dBm	-11.44 dB
3.805 GHz	3.870 GHz	1.000 MHz	3.80732 GHz	-31.21 dBm	-18.21 dB

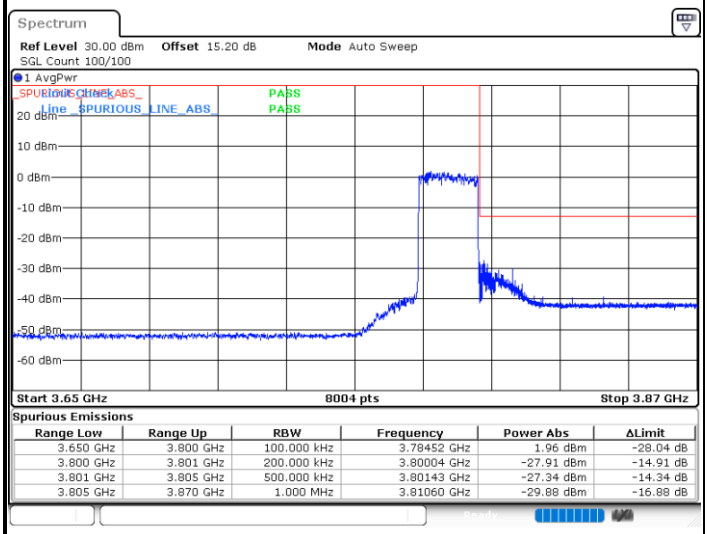
Date: 14.MAR.2021 03:09:38

Channel Power < -13dBm Pass



Date: 14.MAR.2021 03:10:47

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.650 GHz	3.800 GHz	100.000 kHz	3.78452 GHz	1.96 dBm	-28.04 dB
3.800 GHz	3.801 GHz	200.000 kHz	3.80004 GHz	-27.91 dBm	-14.91 dB
3.801 GHz	3.805 GHz	500.000 kHz	3.80143 GHz	-27.34 dBm	-14.34 dB
3.805 GHz	3.870 GHz	1.000 MHz	3.81060 GHz	-29.88 dBm	-16.88 dB

Date: 14.MAR.2021 03:03:55

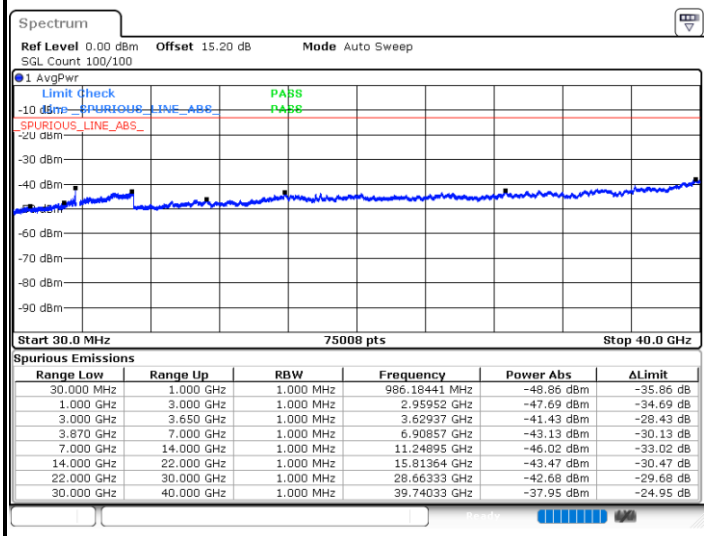
Channel Power < -13dBm Pass

/

Conducted Spurious Emission

FR1 UL-MIMO n78 / 10MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

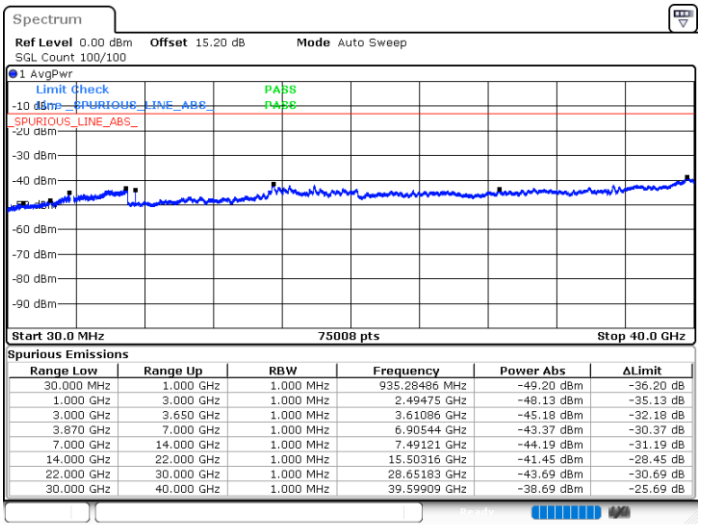


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.18441 MHz	-48.86 dBm	-35.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95952 GHz	-47.69 dBm	-34.69 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.62937 GHz	-41.43 dBm	-28.43 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.90857 GHz	-43.13 dBm	-30.13 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.24895 GHz	-46.02 dBm	-33.02 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.81364 GHz	-43.47 dBm	-30.47 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66333 GHz	-42.68 dBm	-29.68 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.74033 GHz	-37.95 dBm	-24.95 dB

Date: 3.MAR.2021 03:04:56

Middle Channel / 1RB

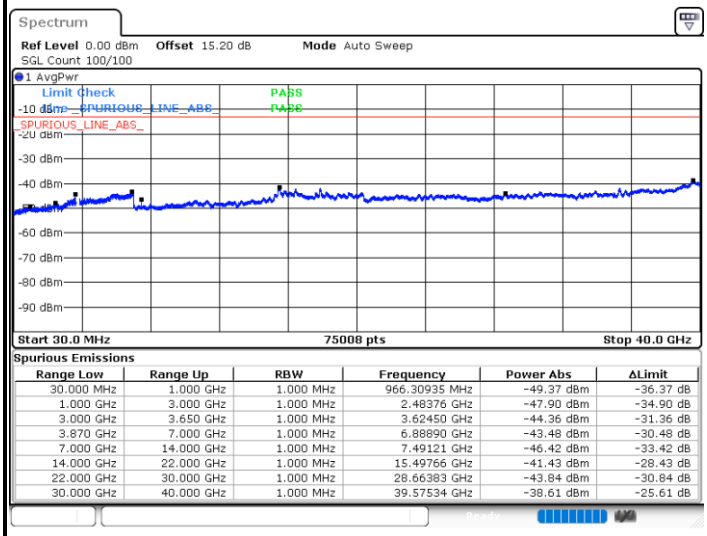


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.28486 MHz	-49.20 dBm	-36.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49475 GHz	-48.13 dBm	-35.13 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.61086 GHz	-45.18 dBm	-32.18 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.90544 GHz	-43.37 dBm	-30.37 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.49121 GHz	-44.19 dBm	-31.19 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50316 GHz	-41.45 dBm	-28.45 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65183 GHz	-43.69 dBm	-30.69 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59909 GHz	-38.69 dBm	-25.69 dB

Date: 4.FEB.2021 22:53:06

Highest Channel / 1RB



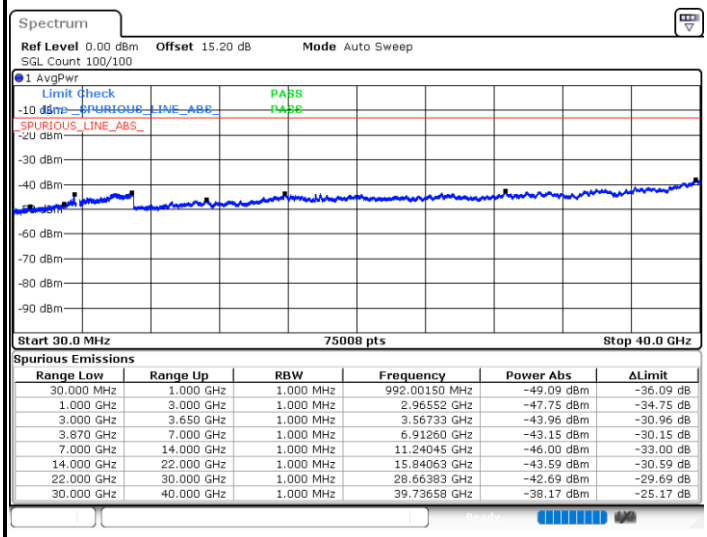
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.30935 MHz	-49.37 dBm	-36.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48376 GHz	-47.90 dBm	-34.90 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.62450 GHz	-44.36 dBm	-31.36 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.88890 GHz	-43.48 dBm	-30.48 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.49121 GHz	-46.42 dBm	-33.42 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49766 GHz	-41.43 dBm	-28.43 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66383 GHz	-43.84 dBm	-30.84 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57534 GHz	-38.61 dBm	-25.61 dB

Date: 4.FEB.2021 22:57:38

FR1 UL-MIMO n78 / 10MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.00150 MHz	-49.09 dBm	-36.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96552 GHz	-47.75 dBm	-34.75 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.56733 GHz	-43.96 dBm	-30.96 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.91260 GHz	-43.15 dBm	-30.15 dB
7.000 GHz	14.000 GHz	1.000 MHz	11.24045 GHz	-46.00 dBm	-33.00 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.84063 GHz	-43.59 dBm	-30.59 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66383 GHz	-42.69 dBm	-29.69 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.73658 GHz	-38.17 dBm	-25.17 dB

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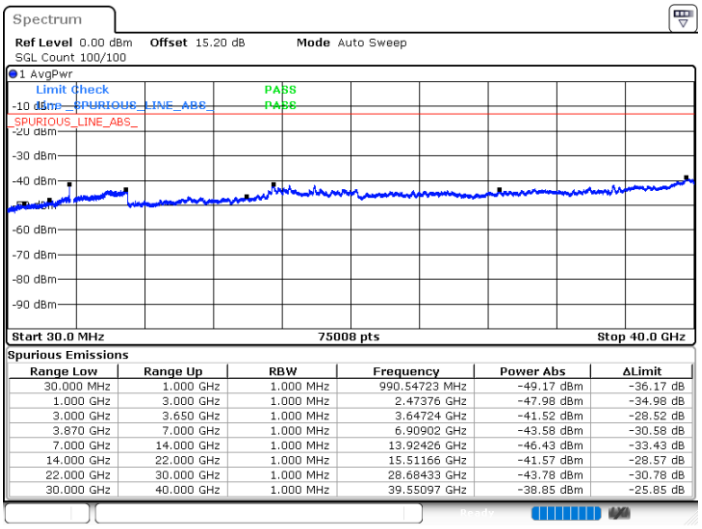
Middle Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.54723 MHz	-49.17 dBm	-36.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.47376 GHz	-47.98 dBm	-34.98 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.64724 GHz	-41.52 dBm	-28.52 dB
3.870 GHz	7.000 GHz	1.000 MHz	6.90902 GHz	-43.58 dBm	-30.58 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92426 GHz	-46.43 dBm	-33.43 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51166 GHz	-41.57 dBm	-28.57 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.68433 GHz	-43.78 dBm	-30.78 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55097 GHz	-38.85 dBm	-25.85 dB

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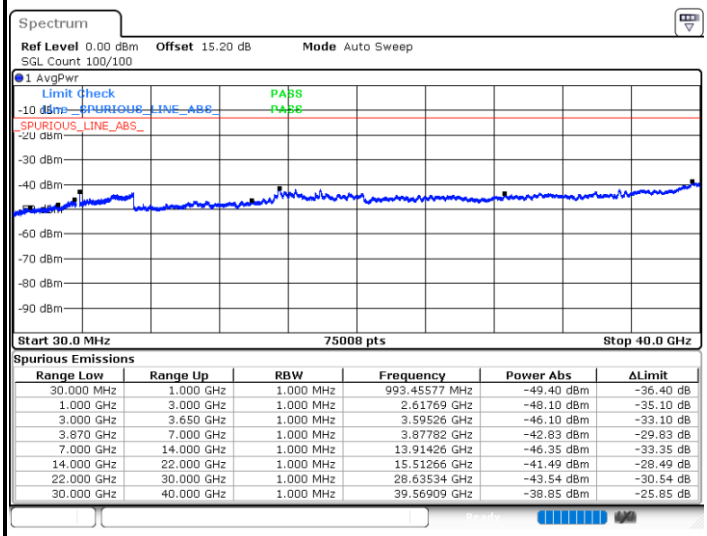
Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.45577 MHz	-49.40 dBm	-36.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.61769 GHz	-48.10 dBm	-35.10 dB
3.000 GHz	3.650 GHz	1.000 MHz	3.59526 GHz	-46.10 dBm	-33.10 dB
3.870 GHz	7.000 GHz	1.000 MHz	3.87782 GHz	-42.83 dBm	-29.83 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.91426 GHz	-46.35 dBm	-33.35 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51266 GHz	-41.49 dBm	-28.49 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63534 GHz	-43.54 dBm	-30.54 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56909 GHz	-38.85 dBm	-25.85 dB

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