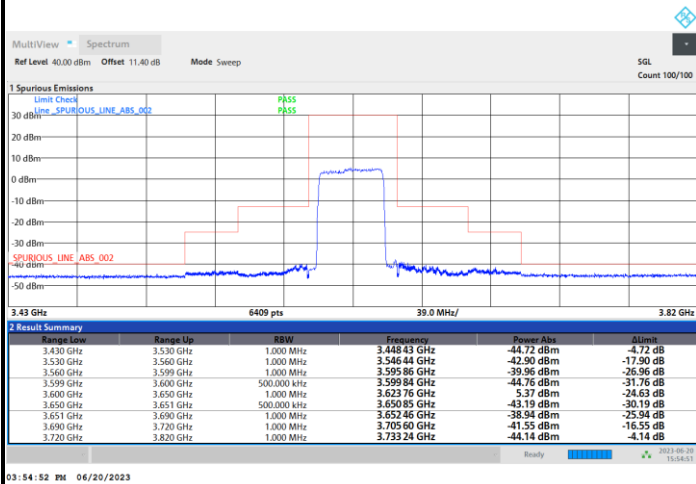




FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

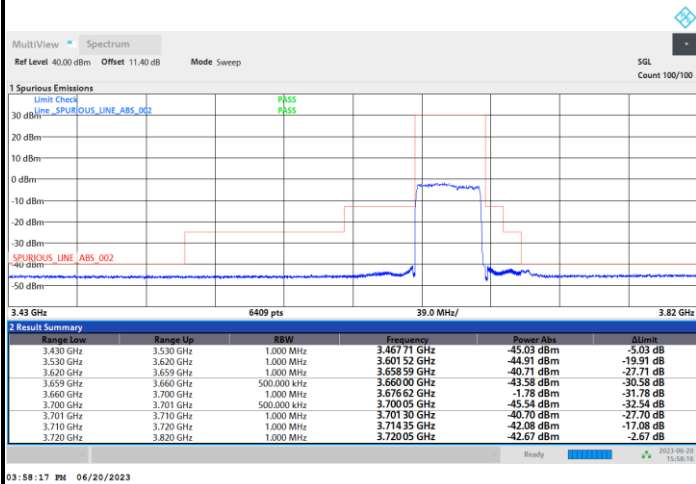




FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB

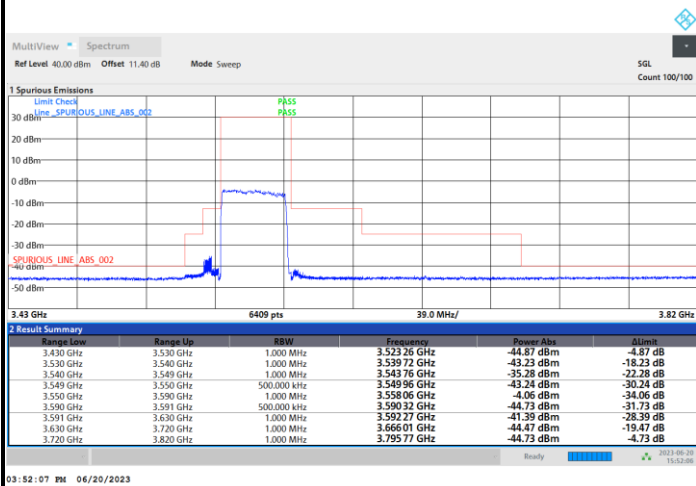




FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB

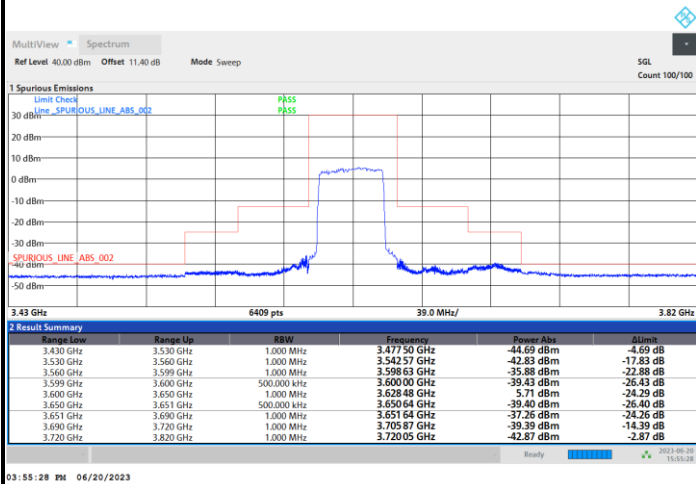




FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

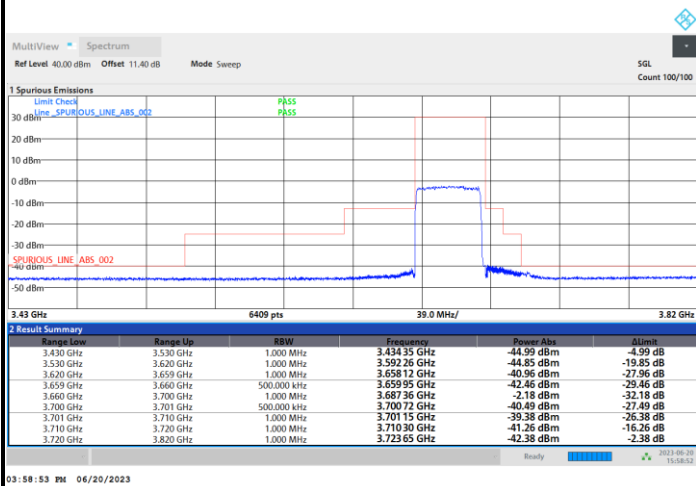




FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB

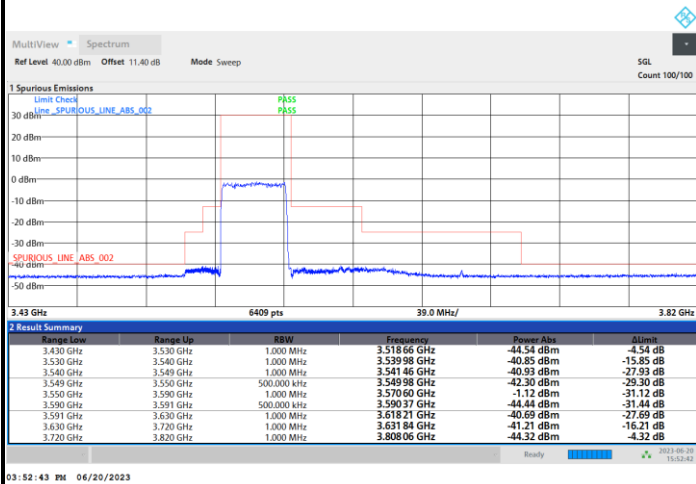




FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Lowest Channel

Full RB

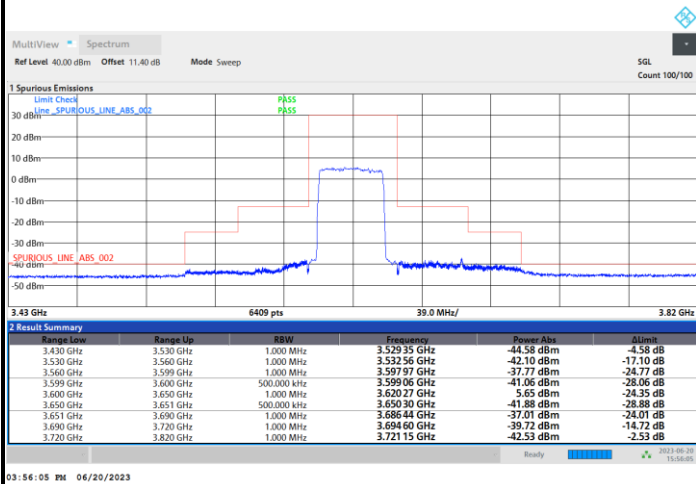




FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

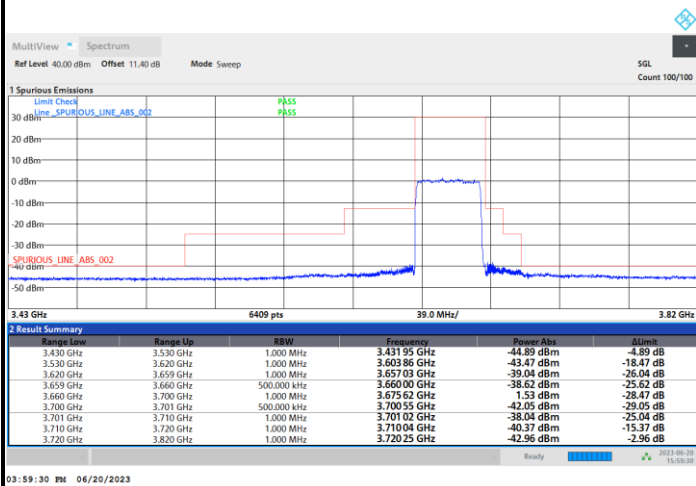




FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB

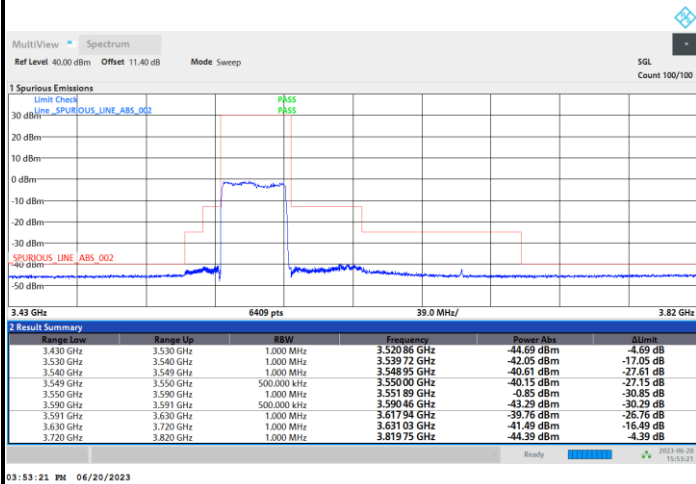




FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

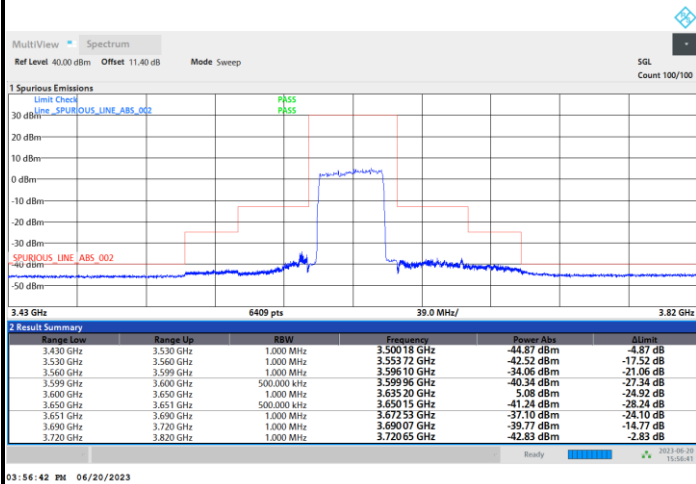




FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

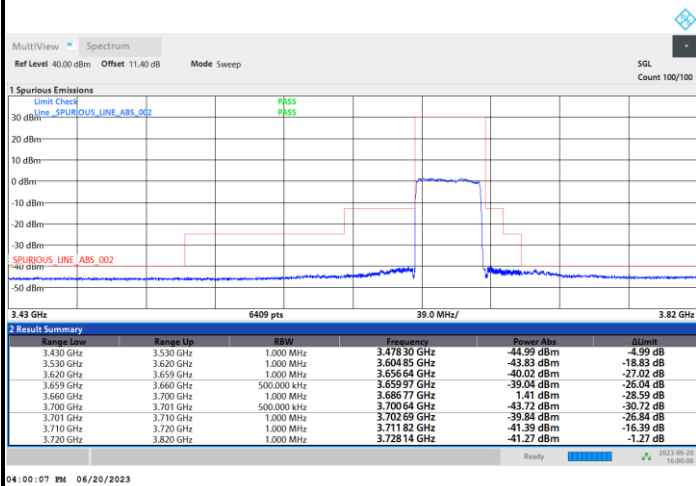




FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

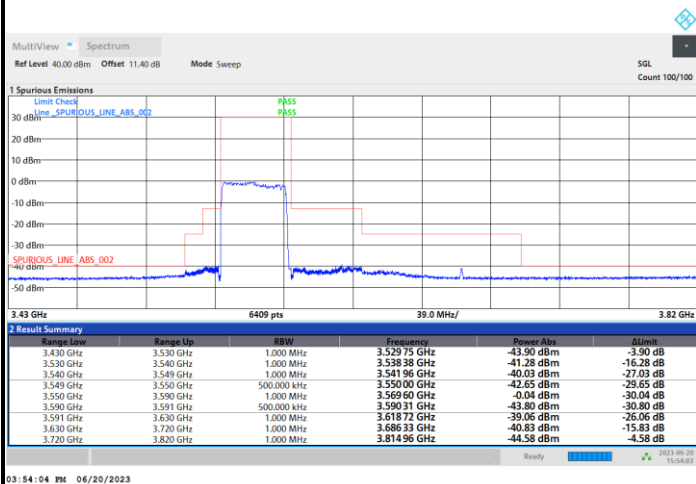




FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB

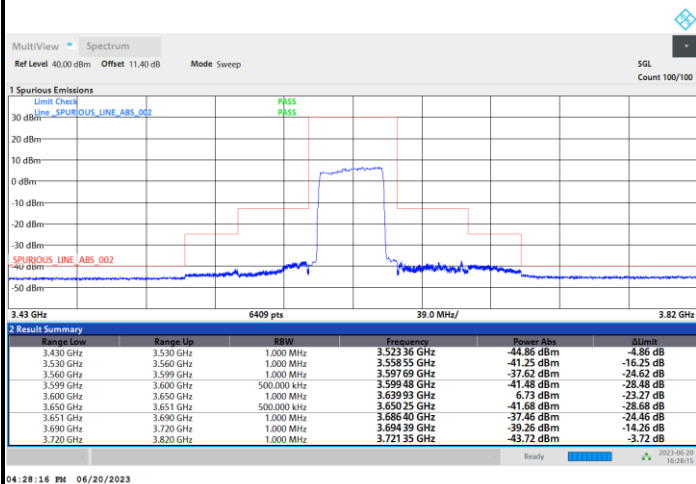




FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

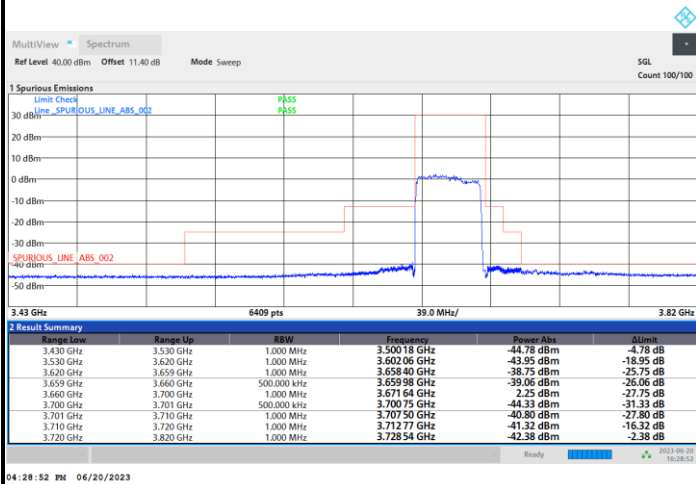




FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Highest Channel

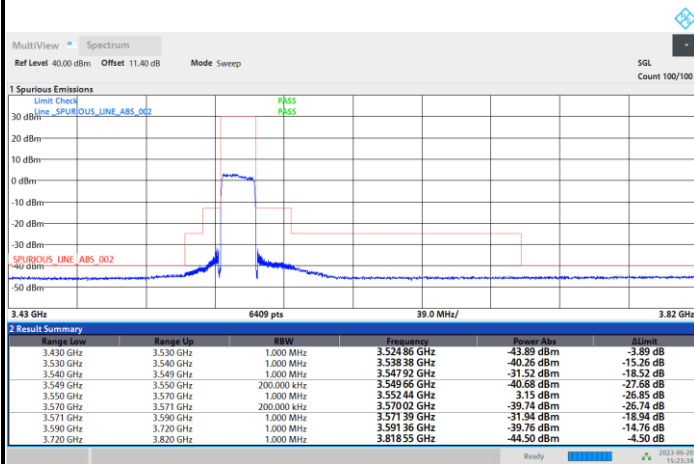
Full RB



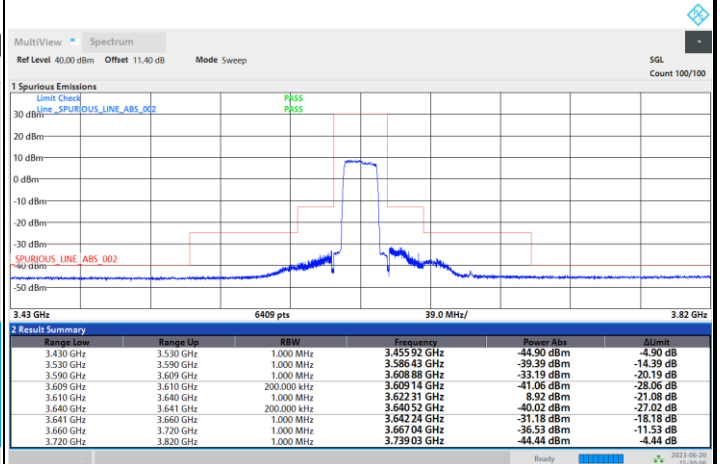


FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB

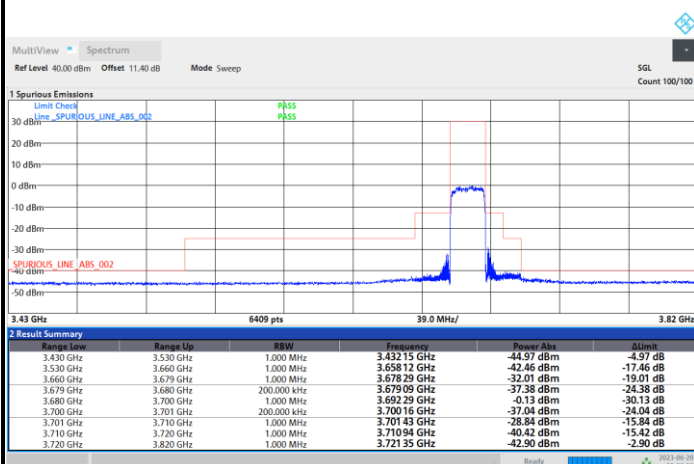
Lowest Channel



Middle Channel



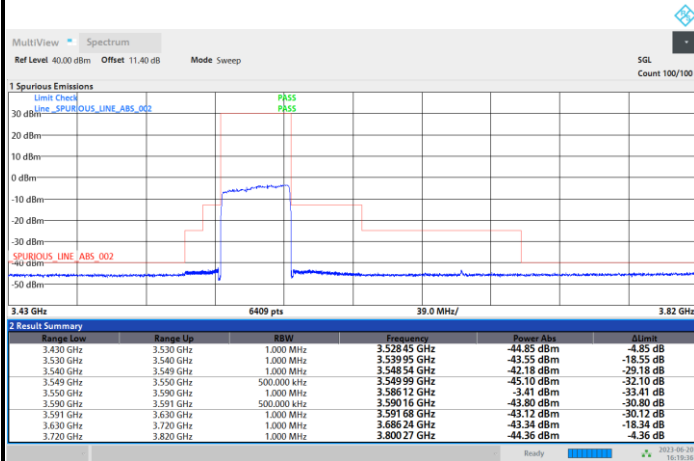
Highest Channel



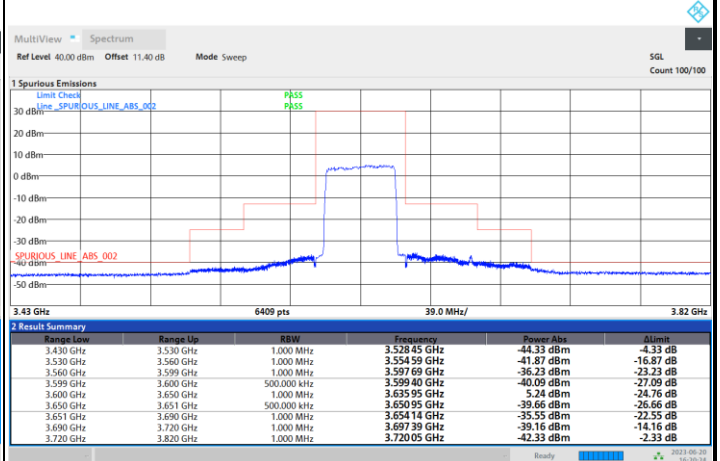


FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB

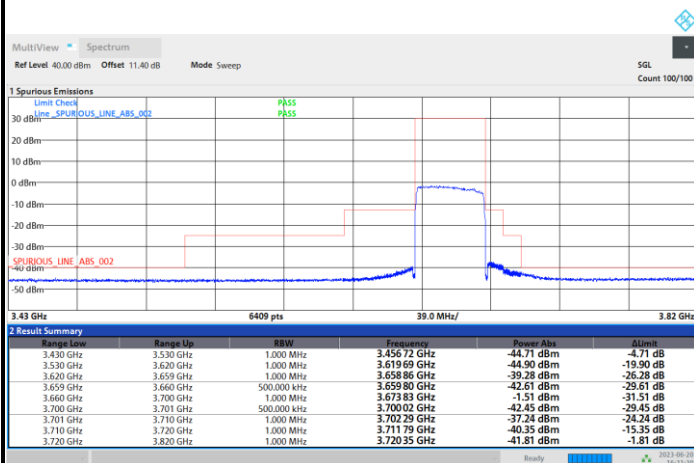
Lowest Channel



Middle Channel



Highest Channel





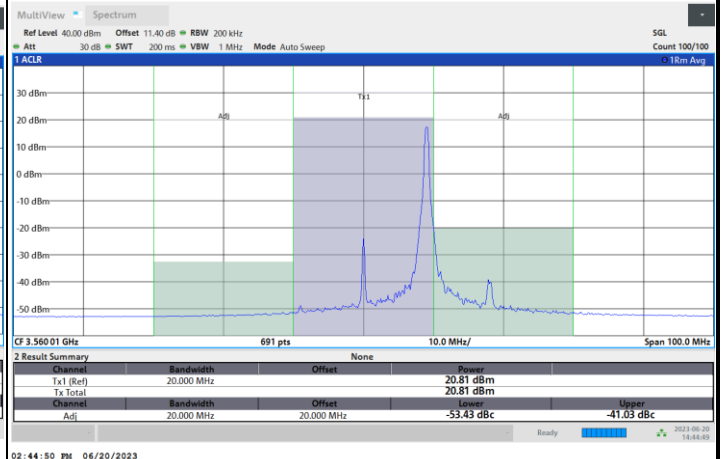
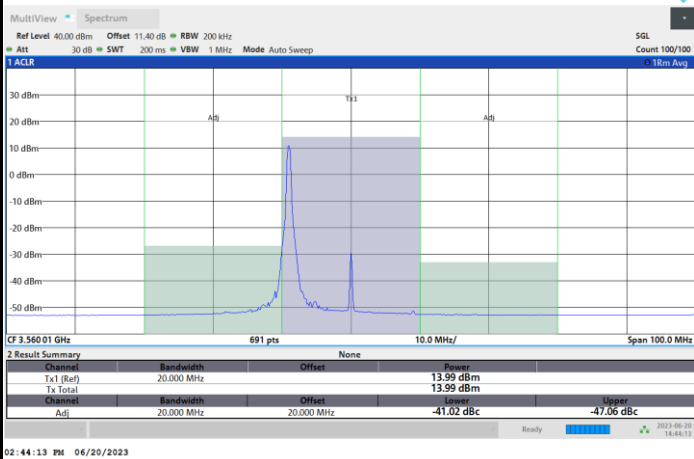
Adjacent Channel Leakage Ratio (ACLR)

FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

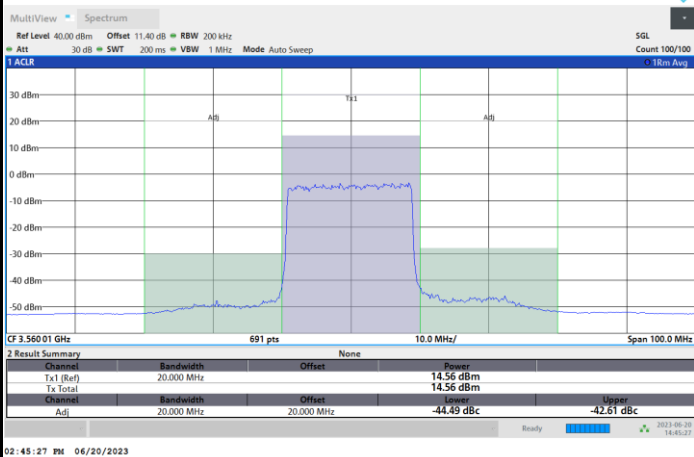
Lowest Channel

1RB0

1RBmax



Full RB

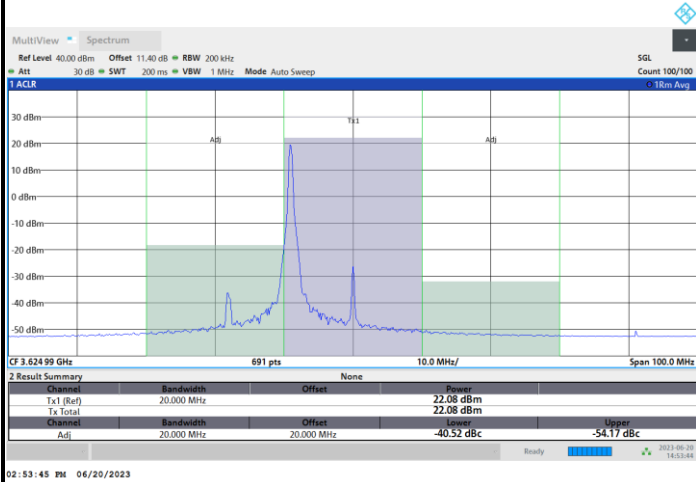




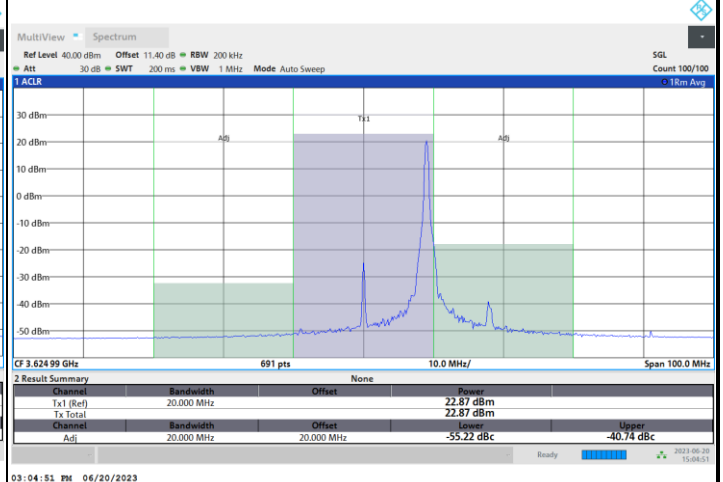
FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

1RB0



1RBmax



Full RB

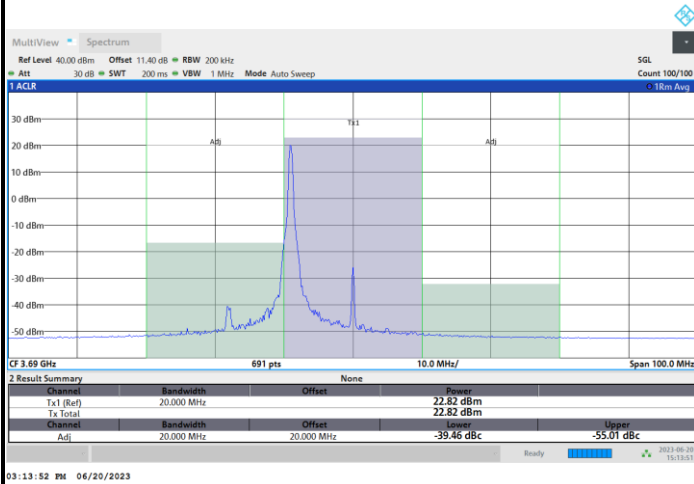




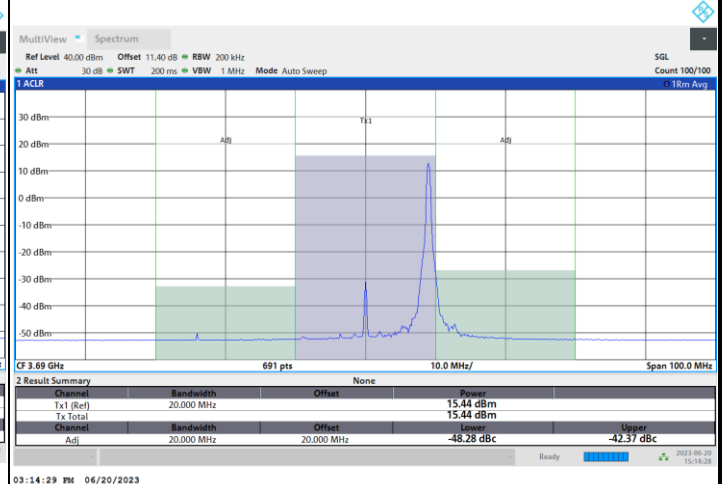
FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

1RB0



1RBmax



Full RB

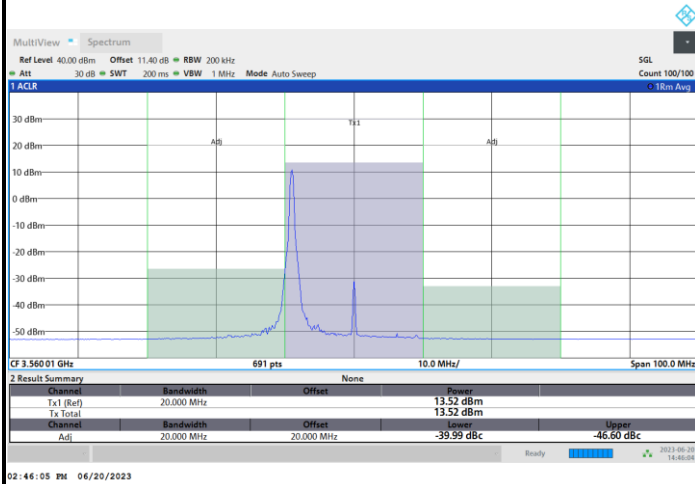




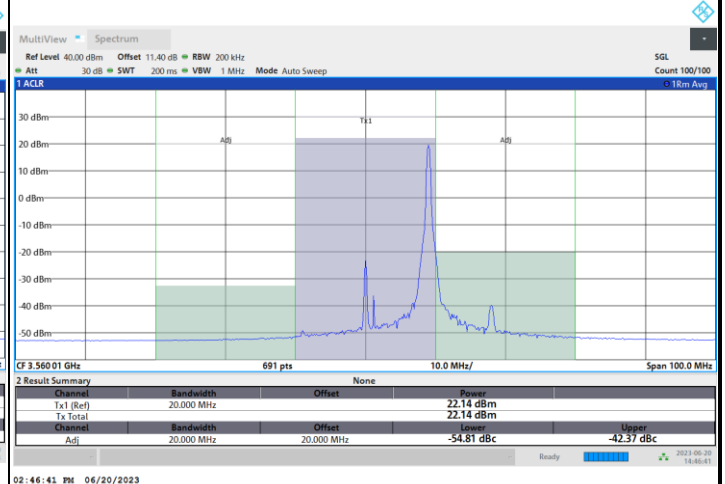
FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel

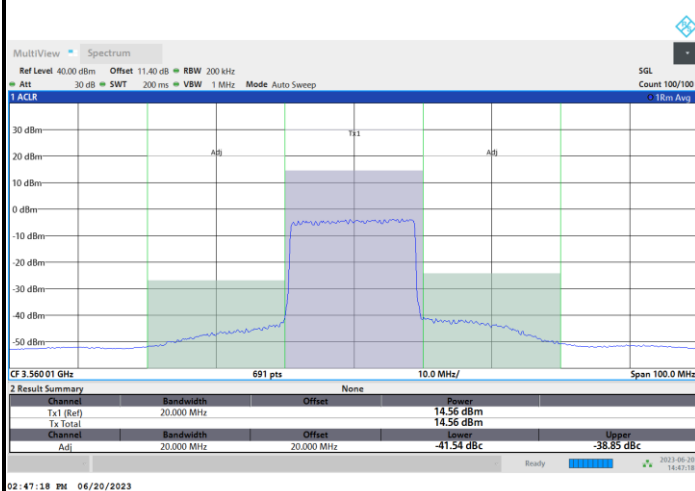
1RB0



1RBmax



Full RB

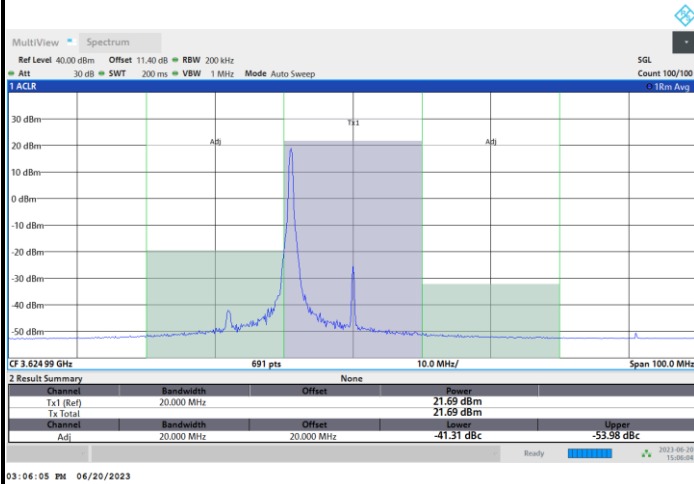




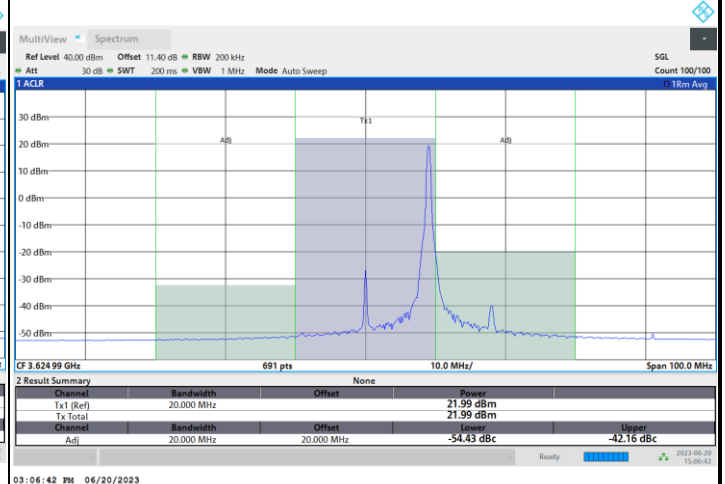
FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Middle Channel

1RB0



1RBmax



Full RB

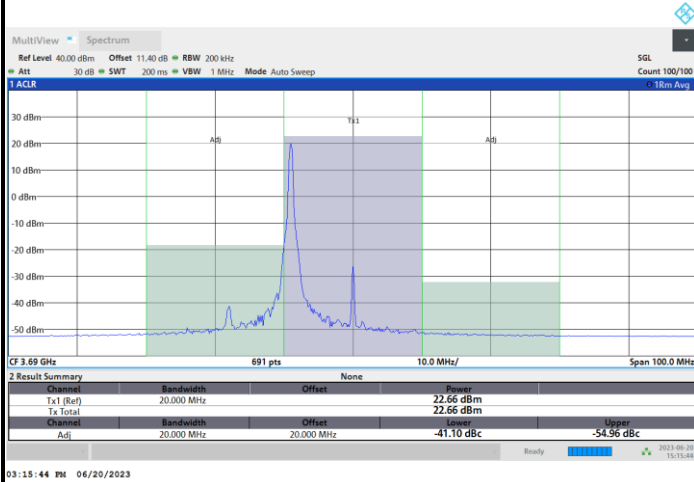




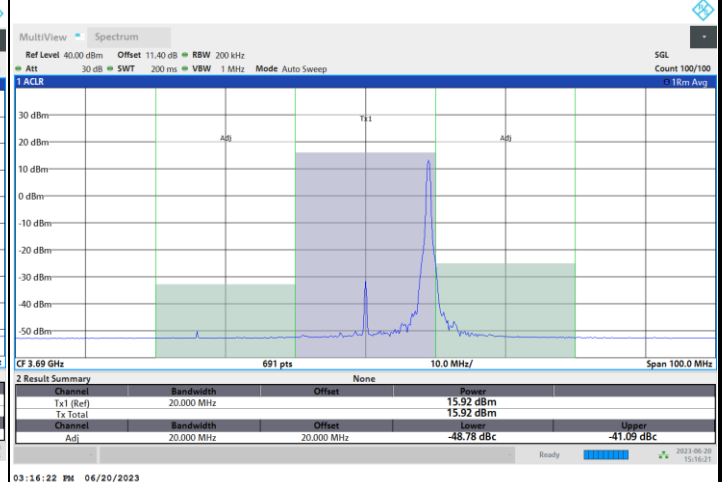
FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Highest Channel

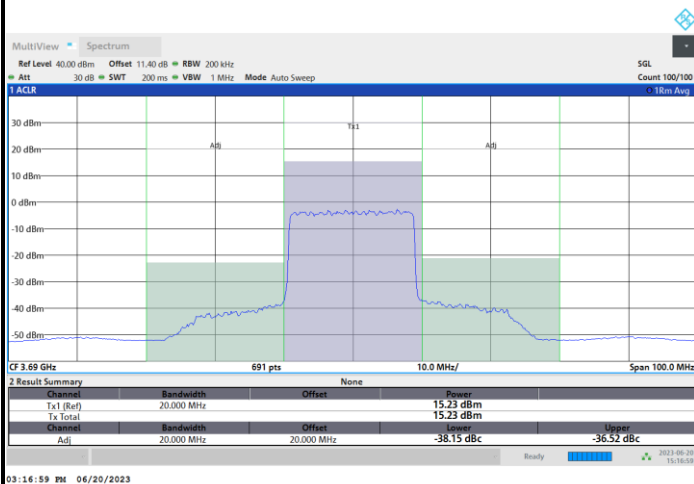
1RB0



1RBmax



Full RB

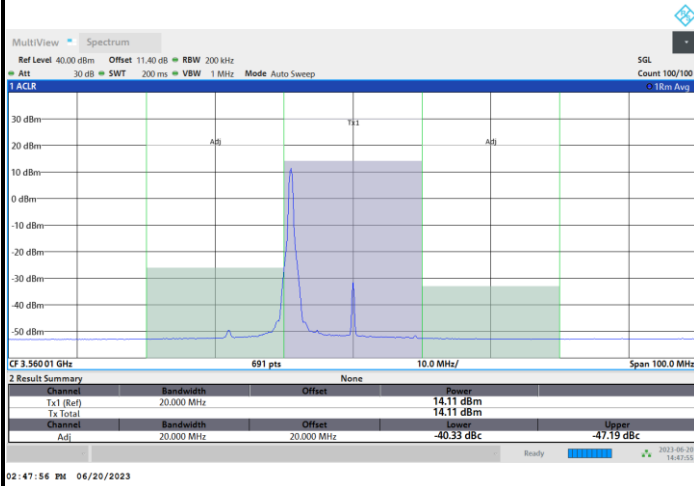




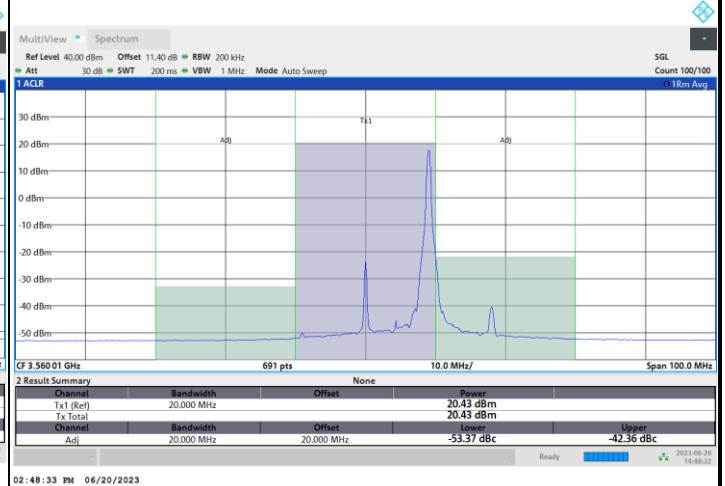
FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Lowest Channel

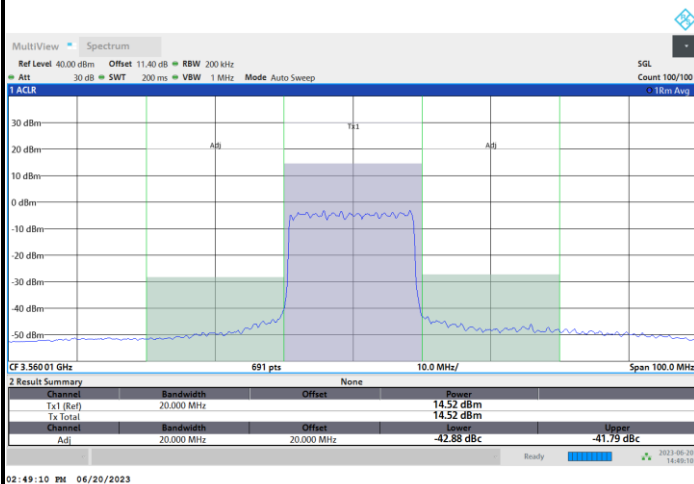
1RB0



1RBmax



Full RB

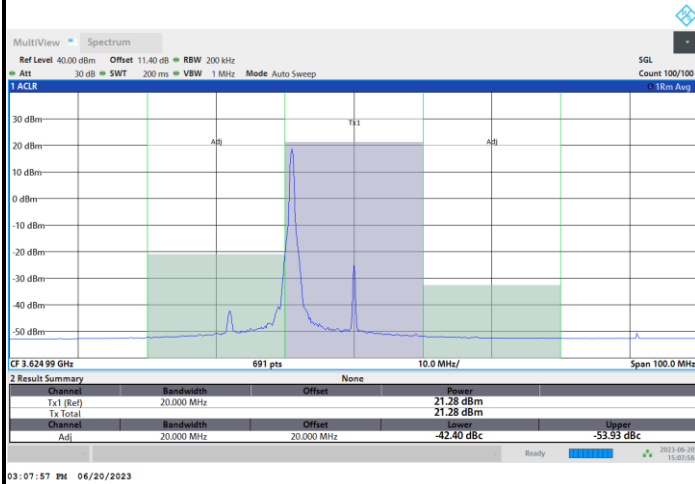




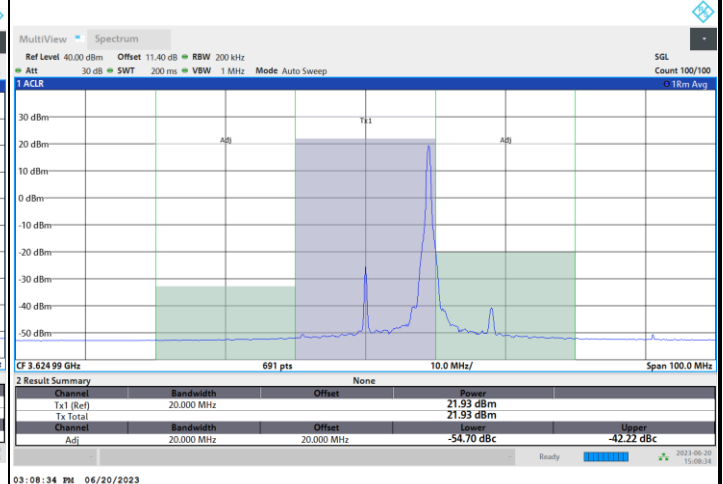
FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Middle Channel

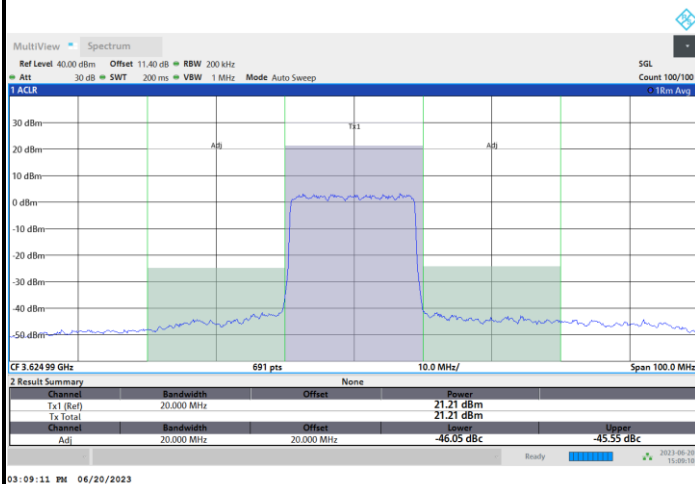
1RB0



1RBmax



Full RB

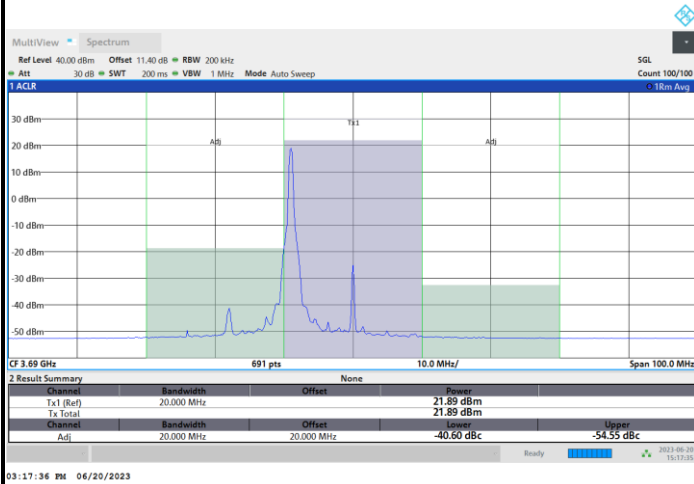




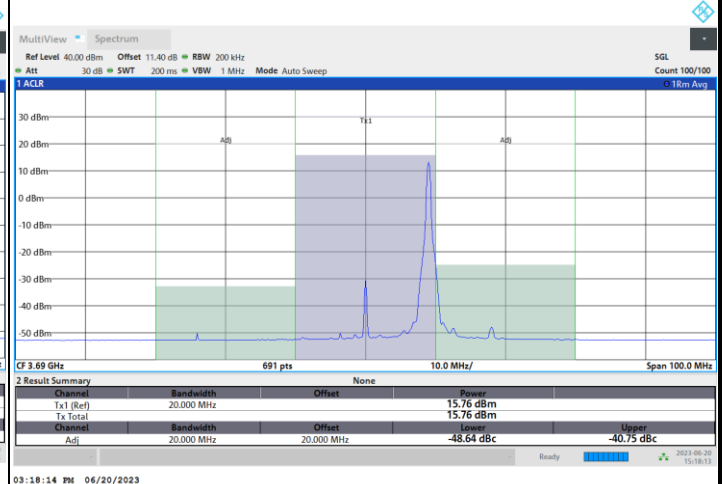
FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Highest Channel

1RB0



1RBmax



Full RB

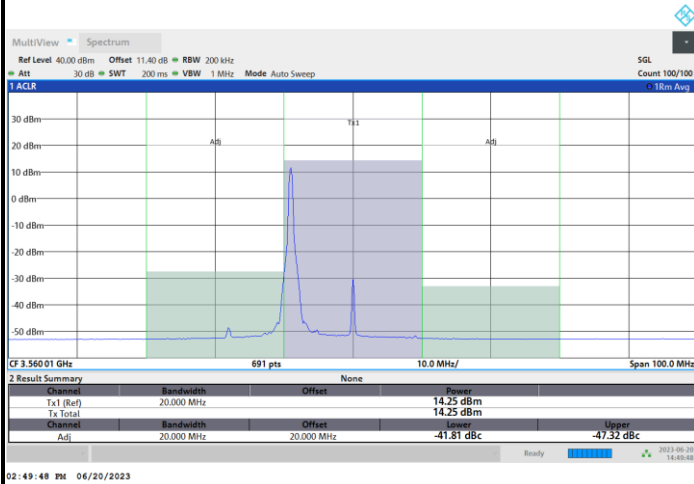




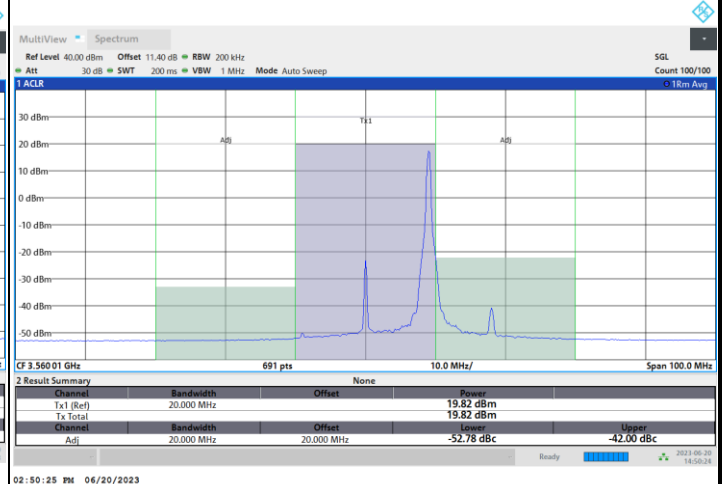
FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Lowest Channel

1RB0



1RBmax



Full RB

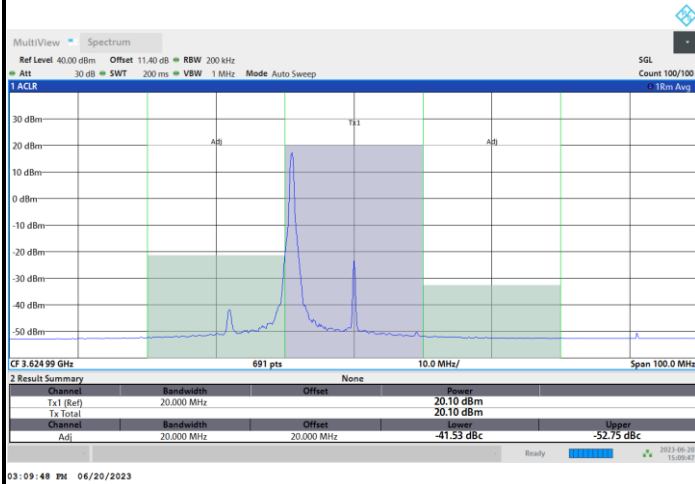




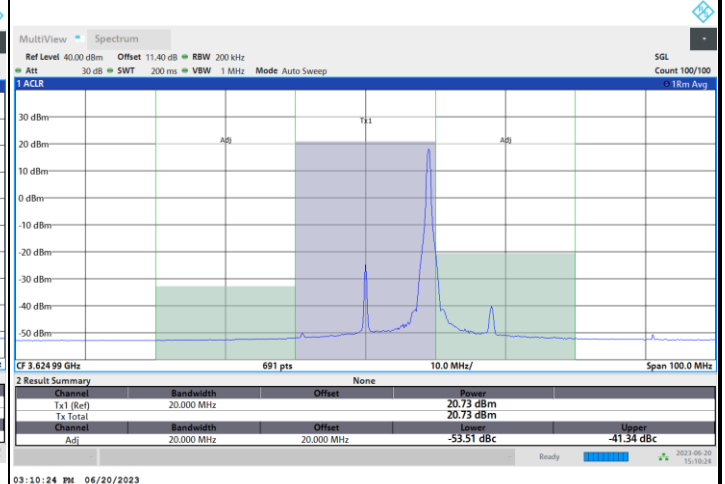
FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Middle Channel

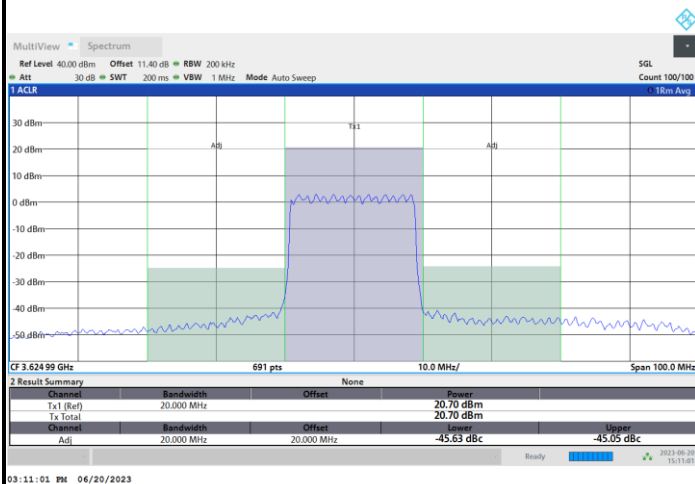
1RB0



1RBmax



Full RB

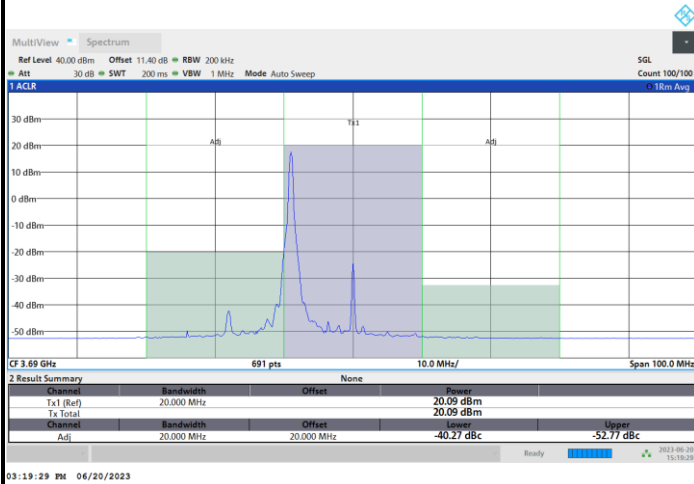




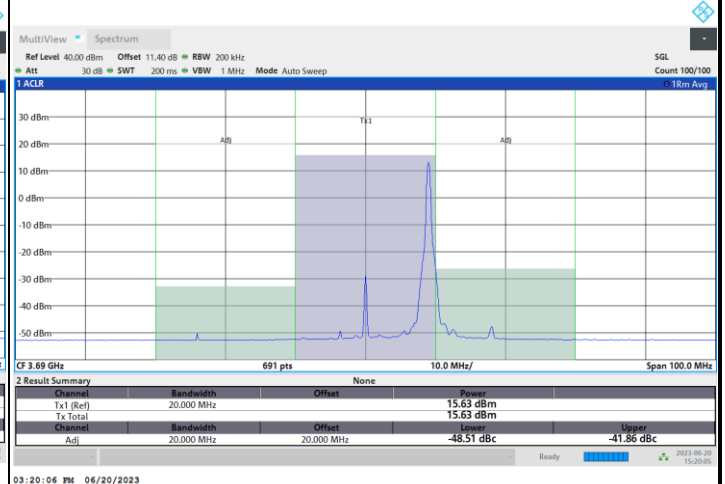
FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Highest Channel

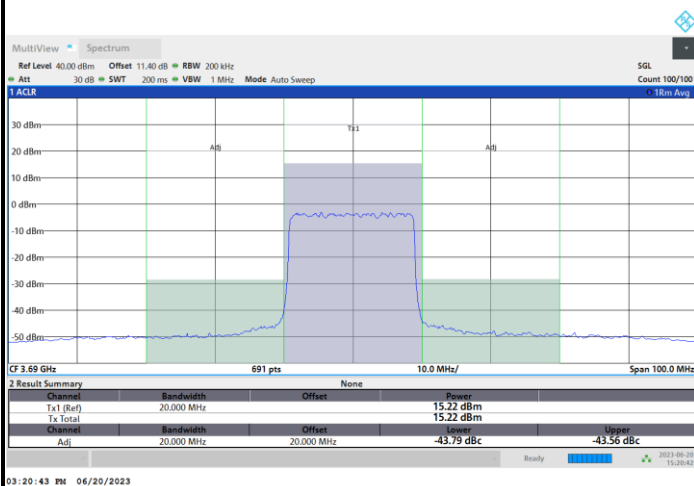
1RB0



1RBmax



Full RB

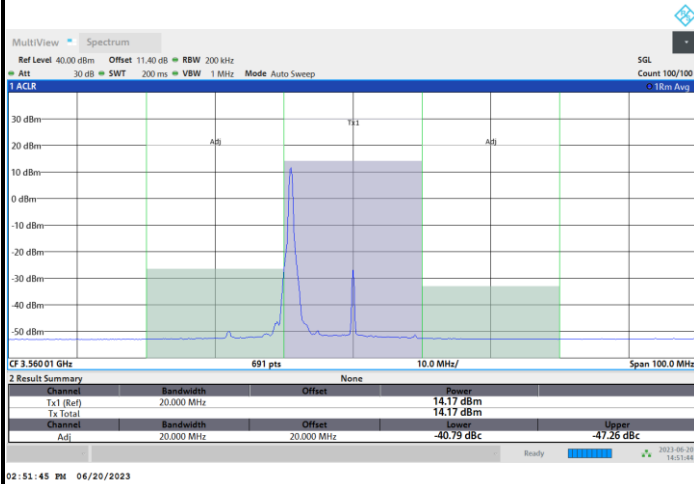




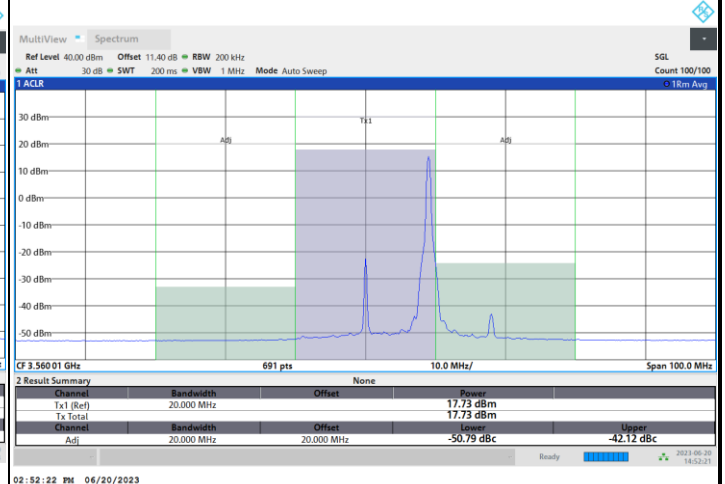
FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Lowest Channel

1RB0



1RBmax



Full RB

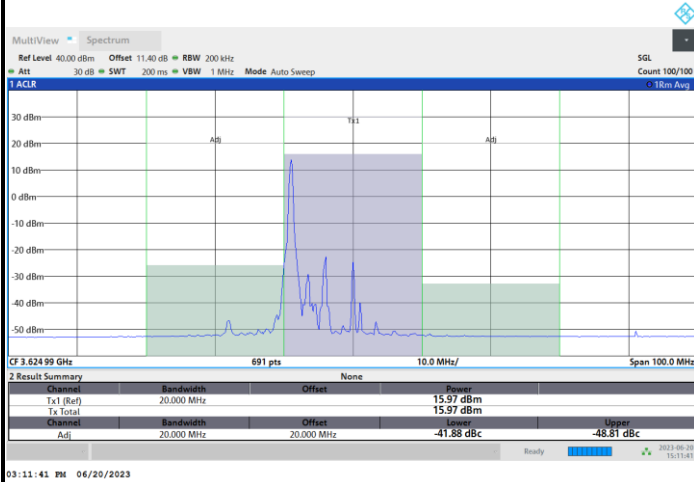




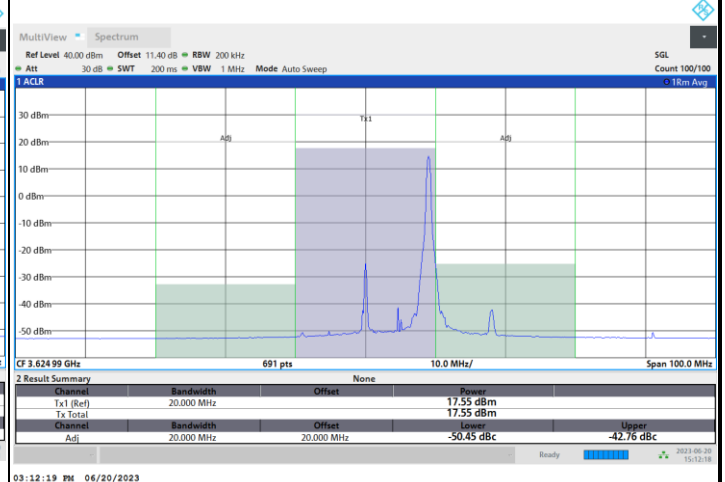
FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Middle Channel

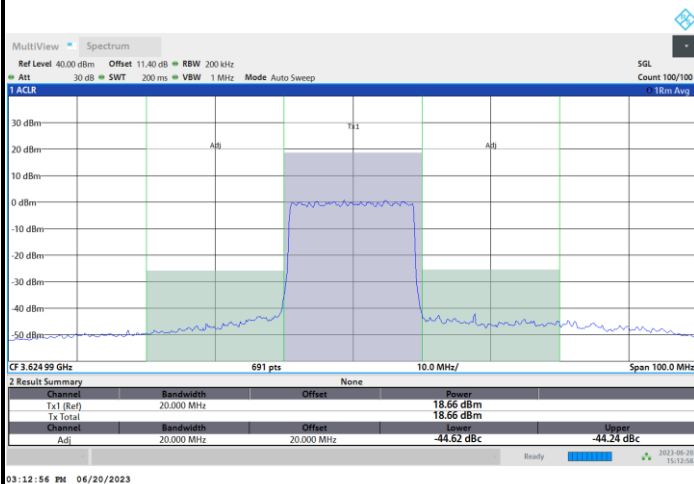
1RB0



1RBmax



Full RB

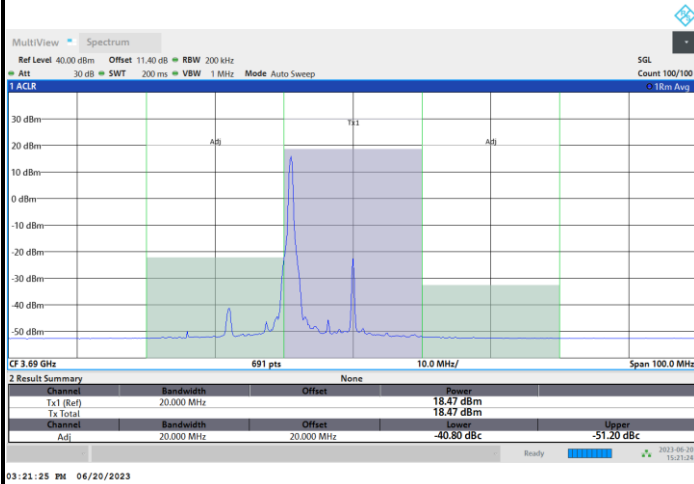




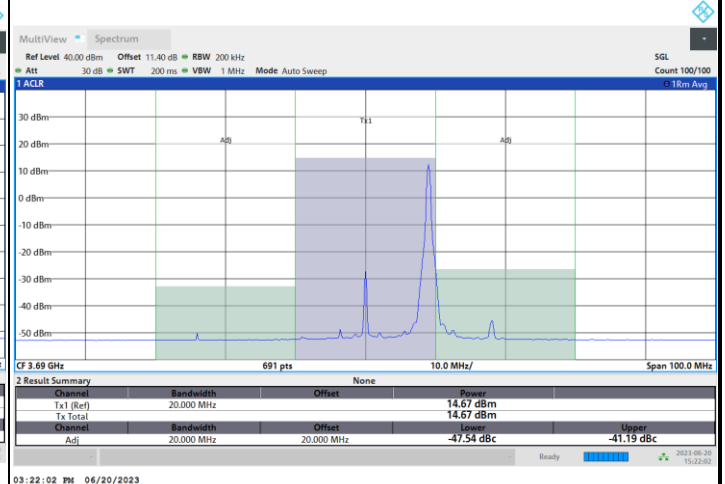
FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Highest Channel

1RB0



1RBmax



Full RB





FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

Full RB





FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

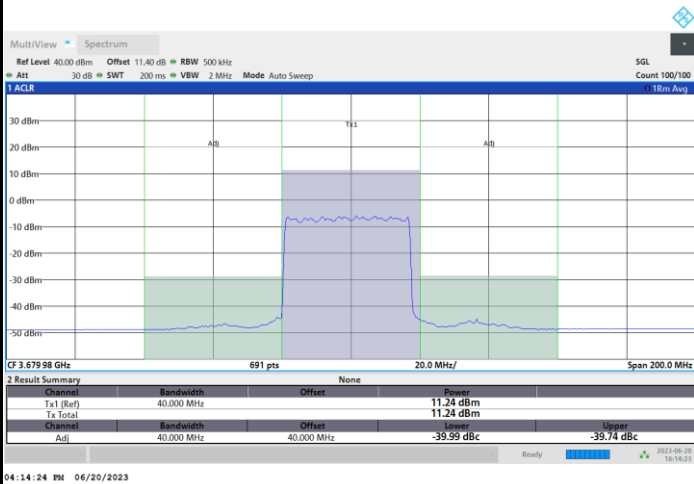




FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB





FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB

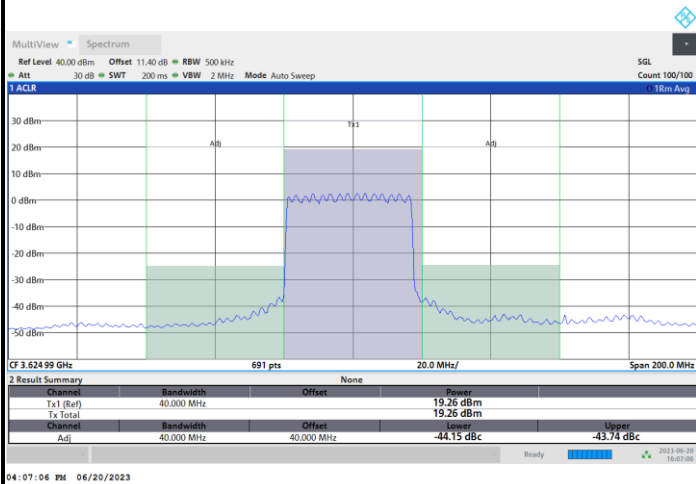




FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

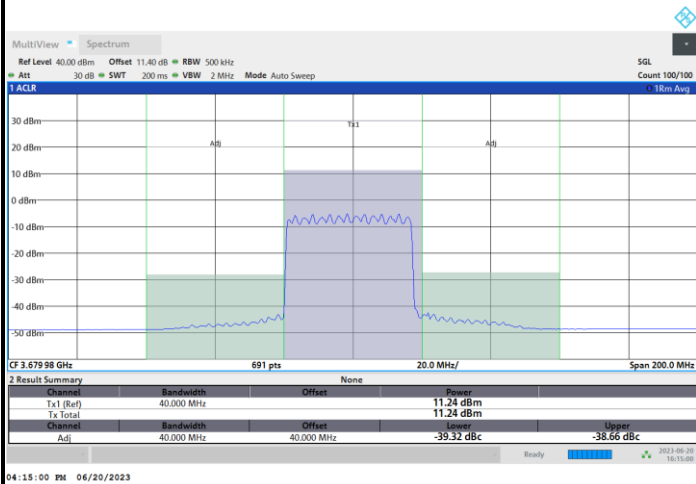




FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB

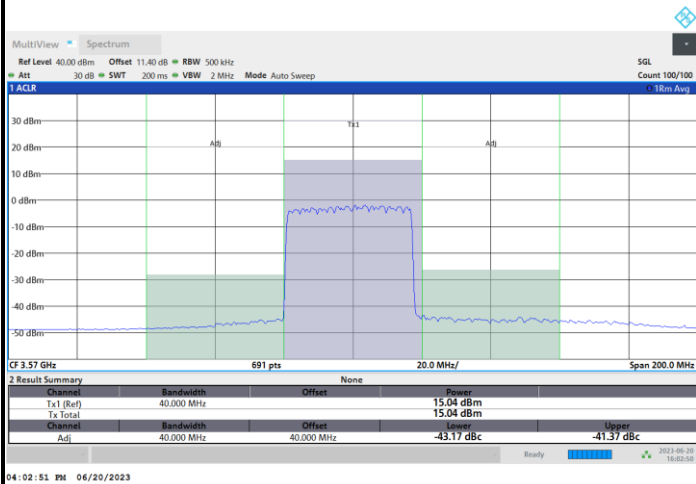




FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Lowest Channel

Full RB





FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

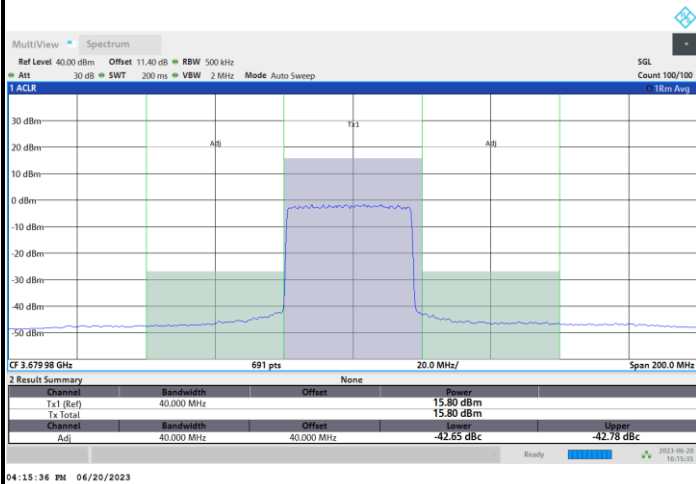




FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB





FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

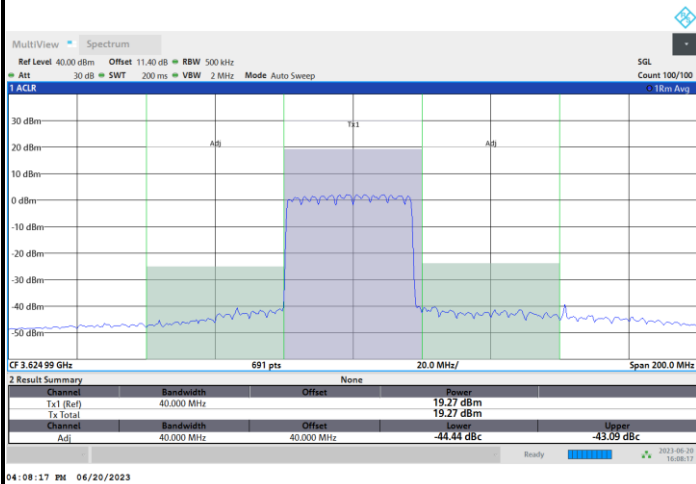




FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB





FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

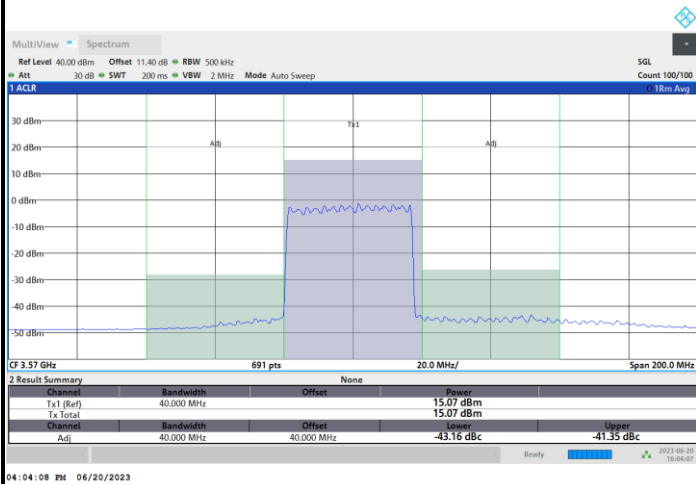




FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB





FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

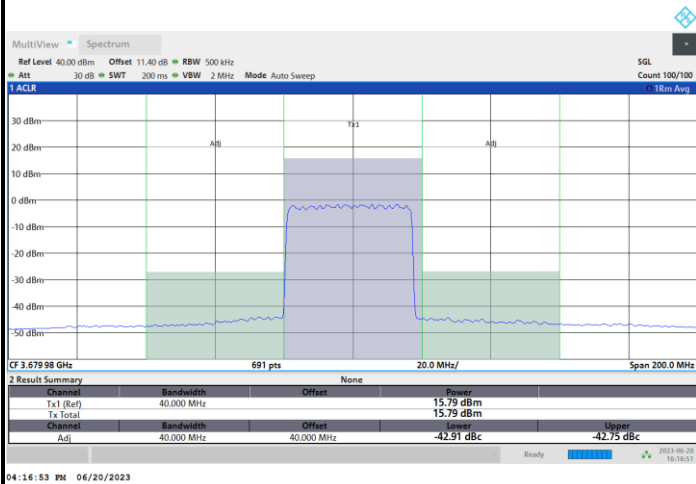




FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Highest Channel

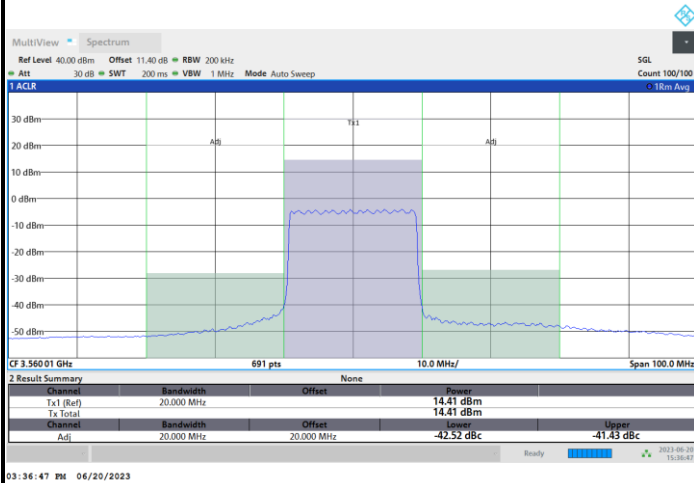
Full RB



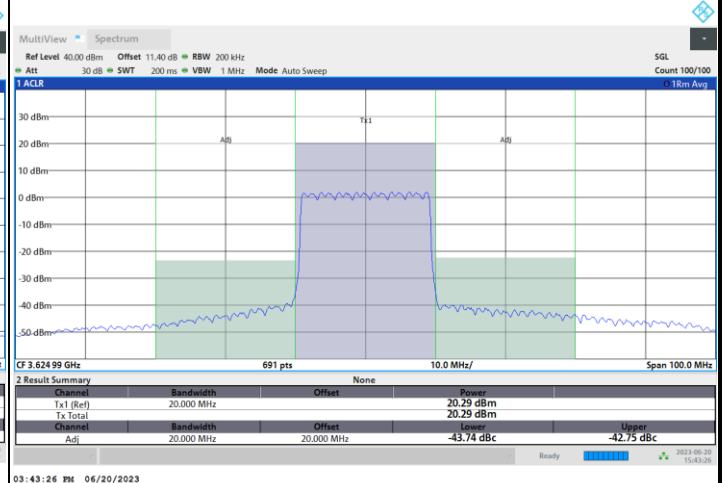


FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB

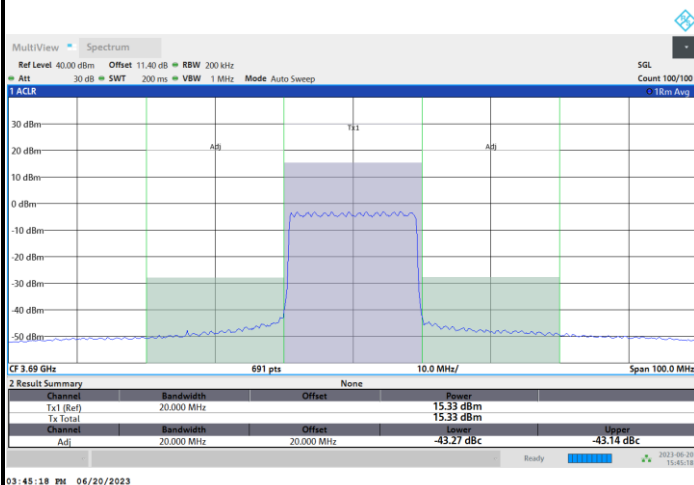
Lowest Channel



Middle Channel



Highest Channel





FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB

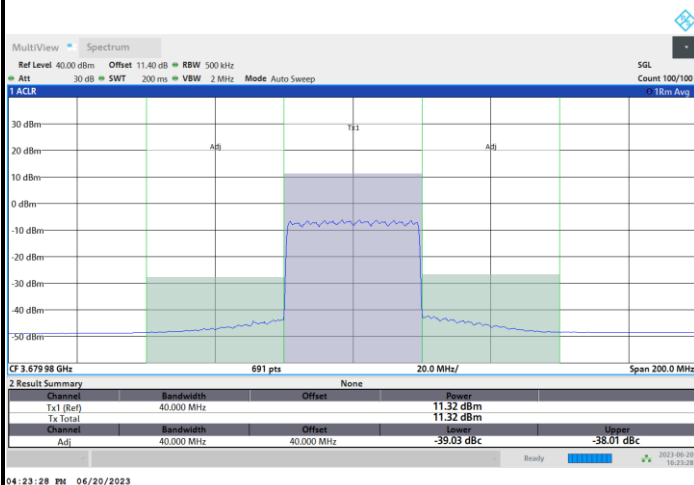
Lowest Channel



Middle Channel



Highest Channel

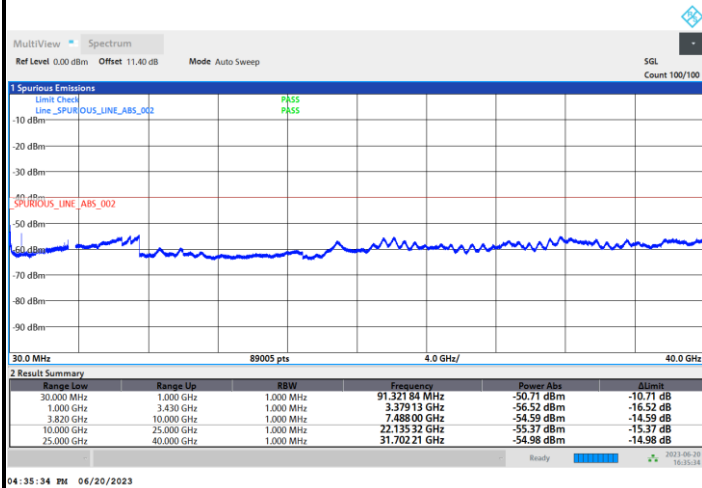




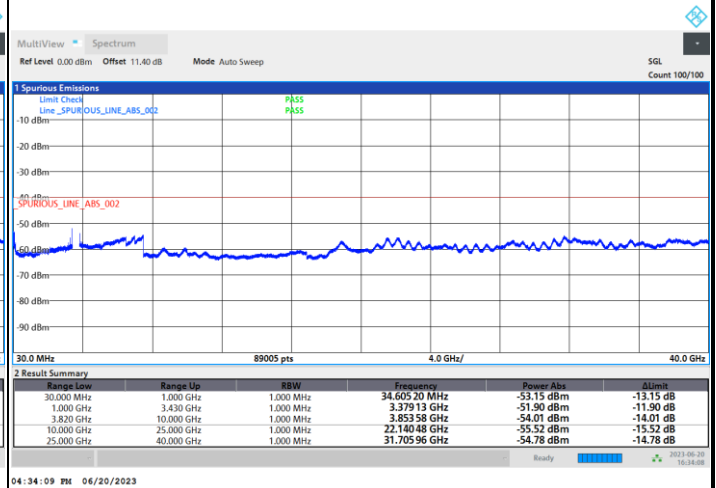
Conducted Spurious Emission

FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

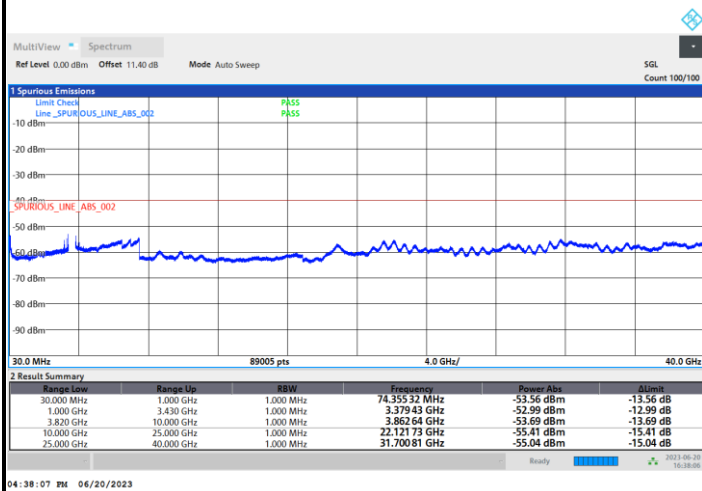
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0039	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0060	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.42 V. ; Maximum Voltage = 4.18 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

SA NR n48 Part 96

SA NR n48 / 40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7104	-62.49	-40	-22.49	-56.07	-71.88	1.30	10.68	H
	10656	-59.51	-40	-19.51	-57	-69.87	1.56	11.92	H
	14209	-58.63	-40	-18.63	-58.78	-69.54	1.87	12.78	H
	21313	-69.51	-40	-29.51	-77.08	-86.12	2.25	18.86	H
	24865	-66.23	-40	-26.23	-76.91	-83.07	2.22	19.06	H
	28418	-65.00	-40	-25.00	-76.75	-81.26	2.87	19.13	H
	7104	-60.81	-40	-20.81	-55.85	-70.20	1.30	10.68	V
	10656	-60.81	-40	-20.81	-57.08	-71.17	1.56	11.92	V
	14209	-58.28	-40	-18.28	-58.63	-69.19	1.87	12.78	V
	21313	-69.36	-40	-29.36	-77.38	-85.97	2.25	18.86	V
	24865	-66.78	-40	-26.78	-77.9	-83.62	2.22	19.06	V
	28418	-64.74	-40	-24.74	-76.91	-81.00	2.87	19.13	V
Middle	7214	-63.30	-40	-23.30	-56.77	-72.34	1.30	10.34	H
	10821	-58.65	-40	-18.65	-56.42	-69.12	1.59	12.06	H
	14429	-58.48	-40	-18.48	-58.77	-69.42	1.93	12.87	H
	18036	-67.30	-40	-27.30	-72.88	-83.50	2.00	18.20	H
	21643	-68.71	-40	-28.71	-76.47	-85.47	2.11	18.87	H
	25250	-66.96	-40	-26.96	-77.55	-83.77	2.29	19.10	H
	7214	-62.01	-40	-22.01	-56.9	-71.05	1.30	10.34	V
	10821	-59.63	-40	-19.63	-56.34	-70.10	1.59	12.06	V
	14429	-58.15	-40	-18.15	-58.78	-69.09	1.93	12.87	V
	18036	-67.09	-40	-27.09	-72.71	-83.29	2.00	18.20	V
	21643	-68.55	-40	-28.55	-76.8	-85.31	2.11	18.87	V
	25250	-66.23	-40	-26.23	-77.29	-83.04	2.29	19.10	V



Highest	7324	-61.17	-40	-21.17	-54.92	-70.52	1.32	10.67	H
	10986	-58.28	-40	-18.28	-56.32	-68.85	1.62	12.19	H
	14649	-58.30	-40	-18.30	-59.1	-69.49	1.94	13.14	H
	18311	-68.45	-40	-28.45	-73.89	-84.44	2.21	18.20	H
	21973	-70.16	-40	-30.16	-77.53	-86.73	2.24	18.81	H
	25635	-65.88	-40	-25.88	-76.55	-82.84	2.40	19.35	H
	7324	-60.30	-40	-20.30	-55.14	-69.65	1.32	10.67	V
	10986	-59.42	-40	-19.42	-56.54	-69.99	1.62	12.19	V
	14649	-57.68	-40	-17.68	-58.76	-68.87	1.94	13.14	V
	18311	-68.85	-40	-28.85	-74.36	-84.84	2.21	18.20	V
	21973	-69.56	-40	-29.56	-77.41	-86.13	2.24	18.81	V
	25635	-66.04	-40	-26.04	-77.2	-83.00	2.40	19.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.