

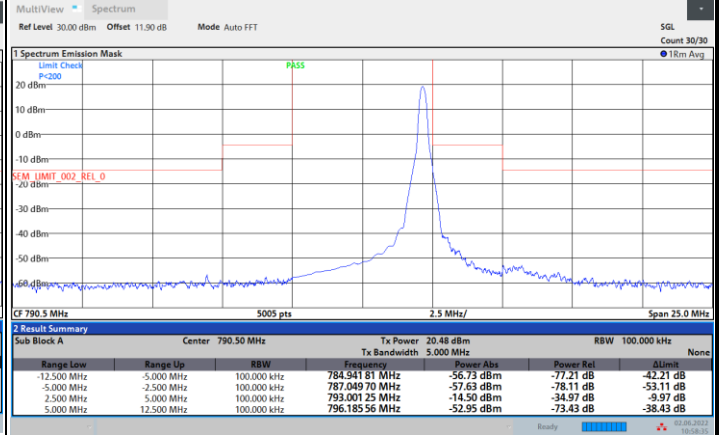
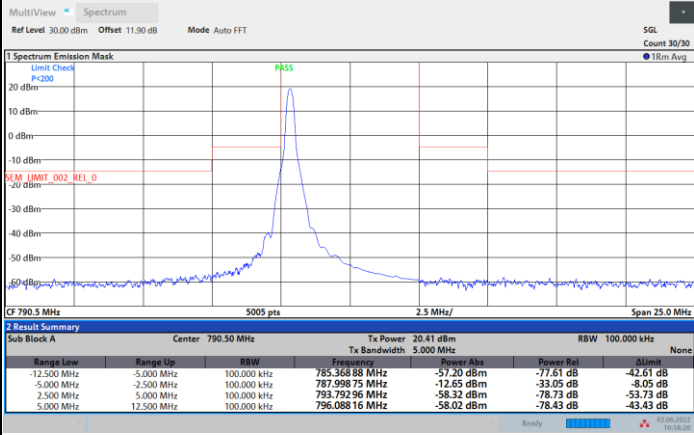


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

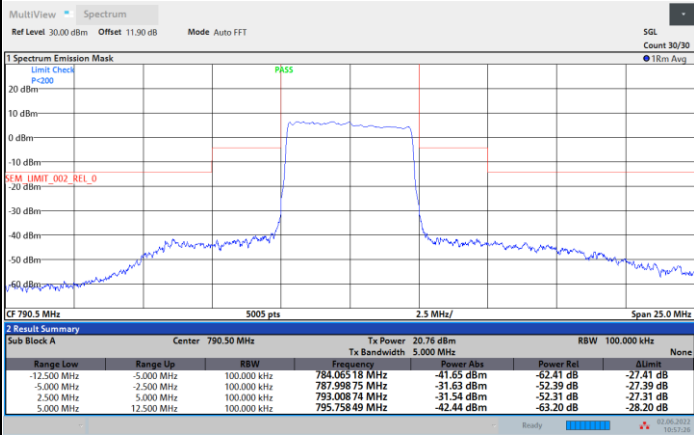
Lowest Channel

1RB0

1RBmax



Full RB



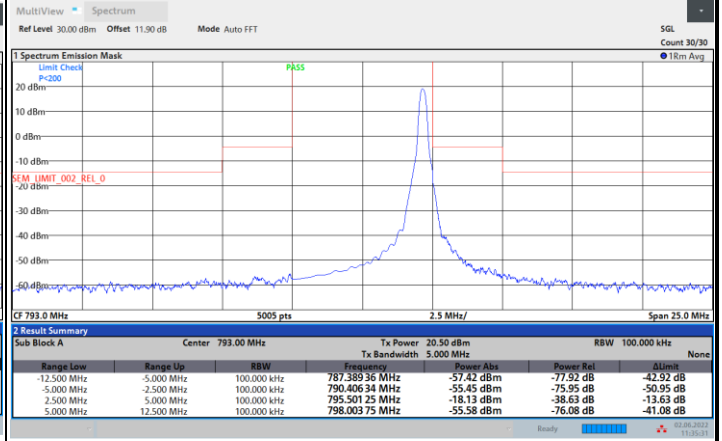
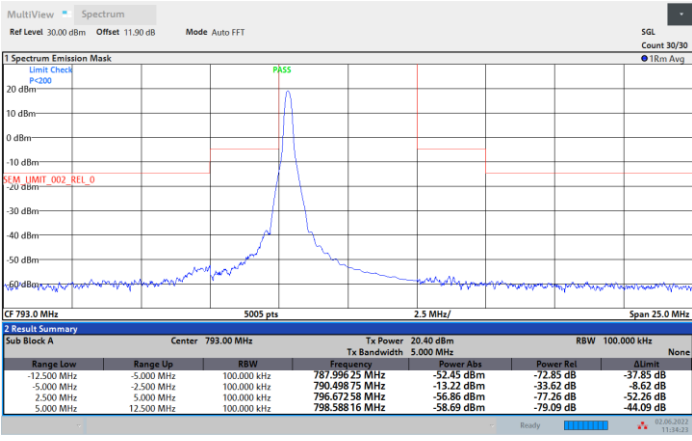


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

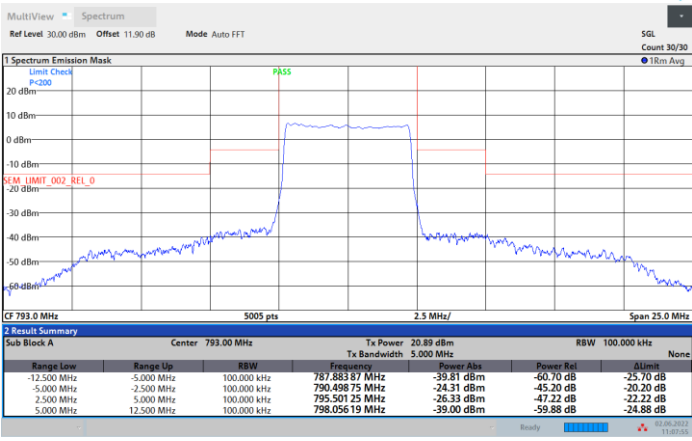
Middle Channel

1RB0

1RBmax



Full RB



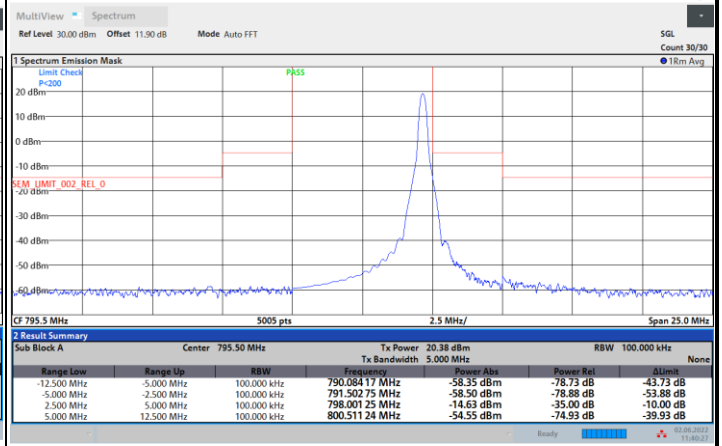
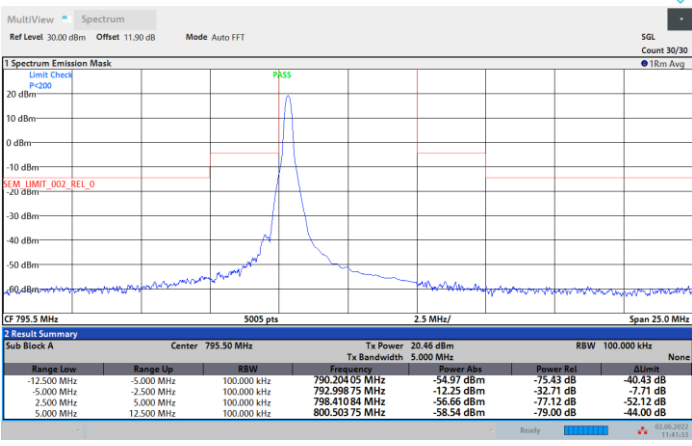


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

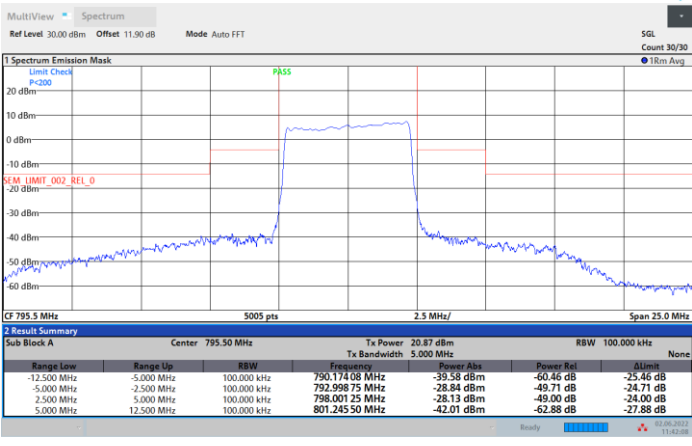
Highest Channel

1RB0

1RBmax



Full RB



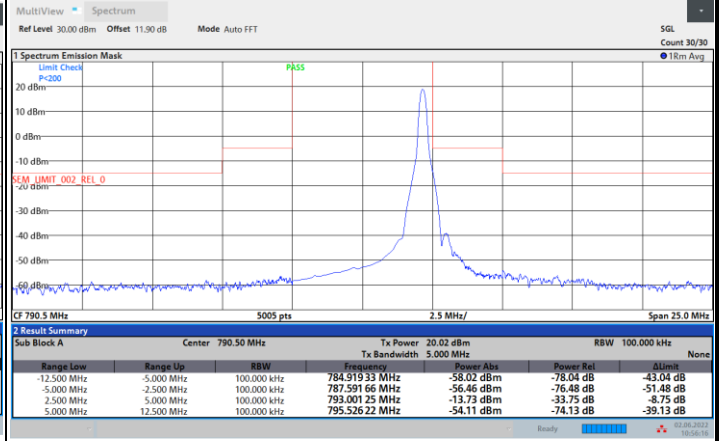
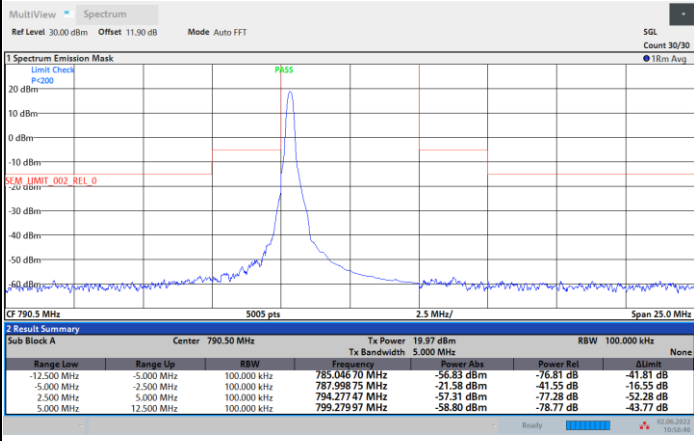


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

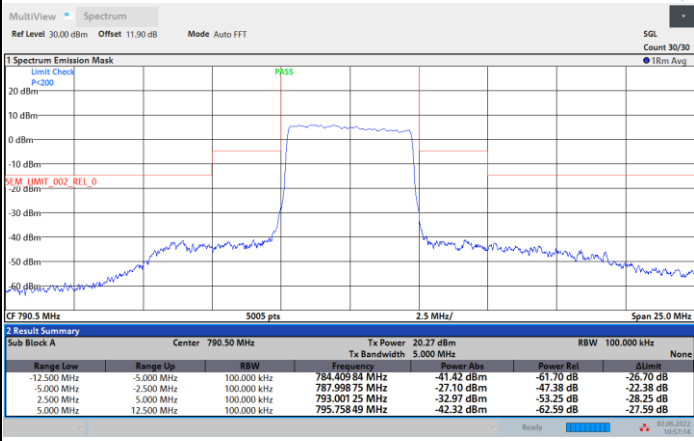
Lowest Channel

1RB0

1RBmax



Full RB



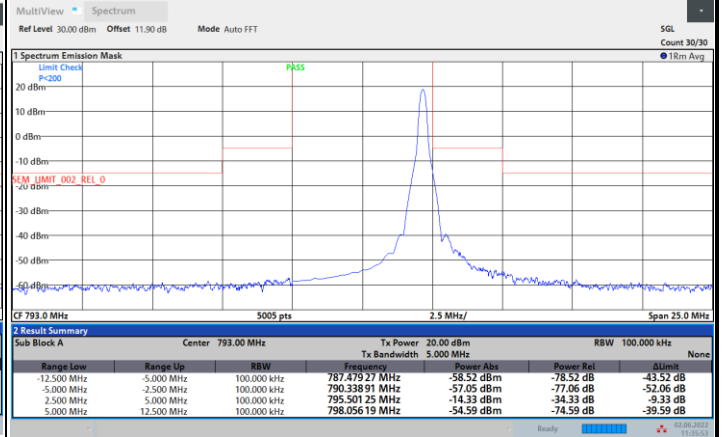
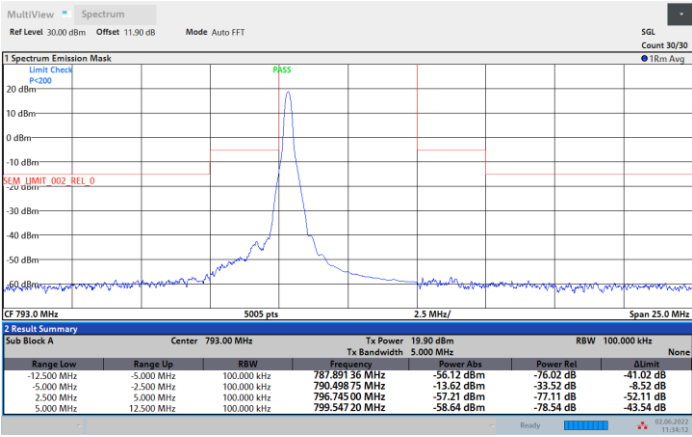


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

Middle Channel

1RB0

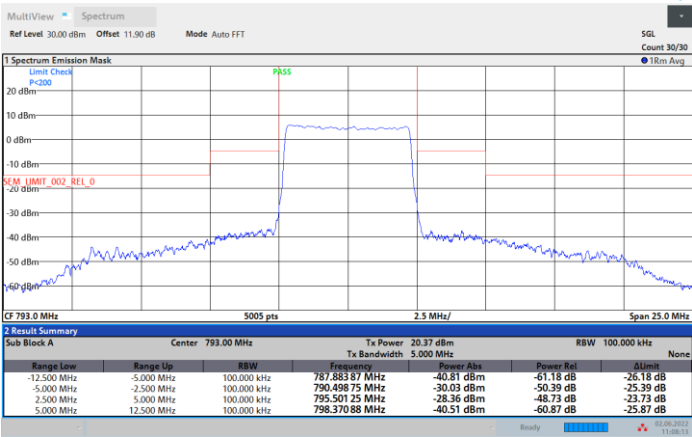
1RBmax



11:34:13 02.06.2022

11:35:54 02.06.2022

Full RB



11:08:14 02.06.2022

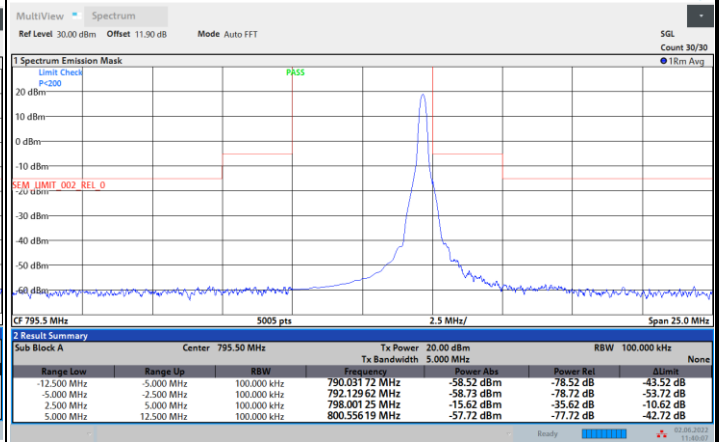
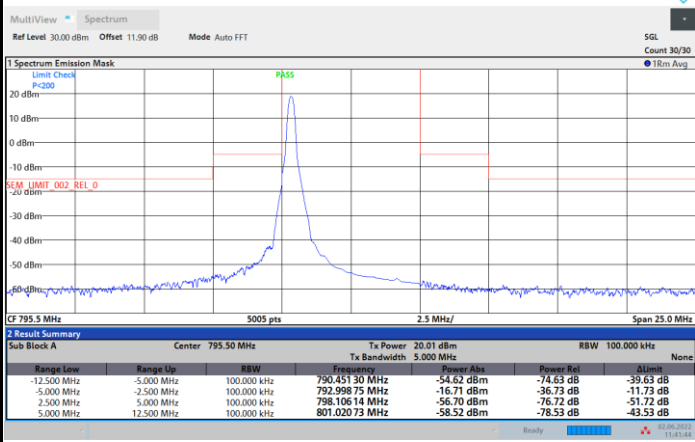


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

Highest Channel

1RB0

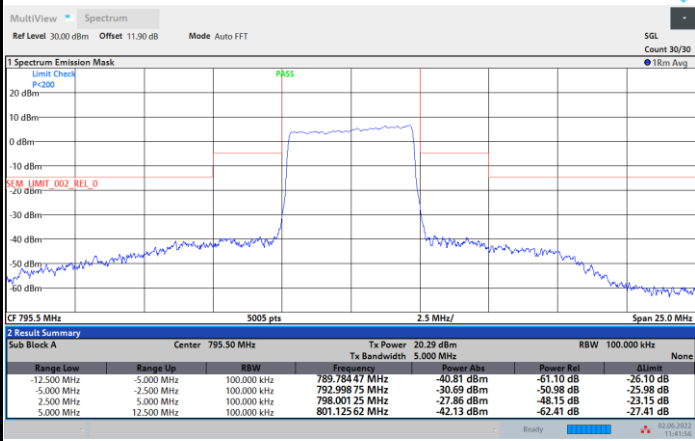
1RBmax



11:41:45 02.06.2022

11:40:07 02.06.2022

Full RB



11:41:56 02.06.2022

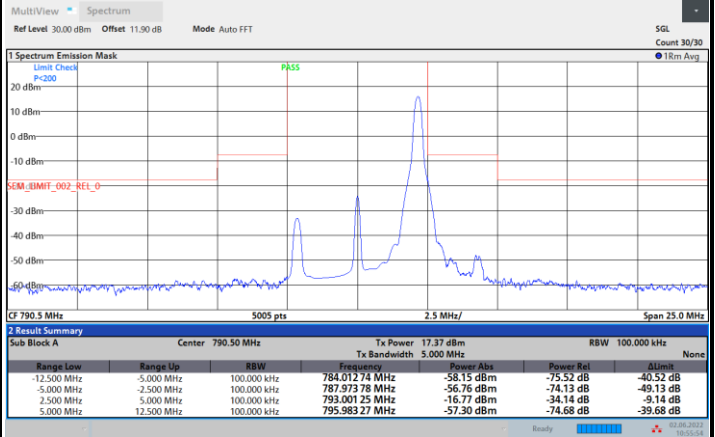
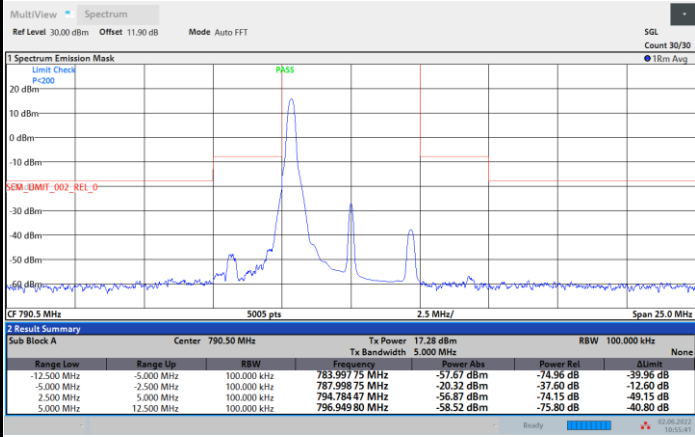


FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

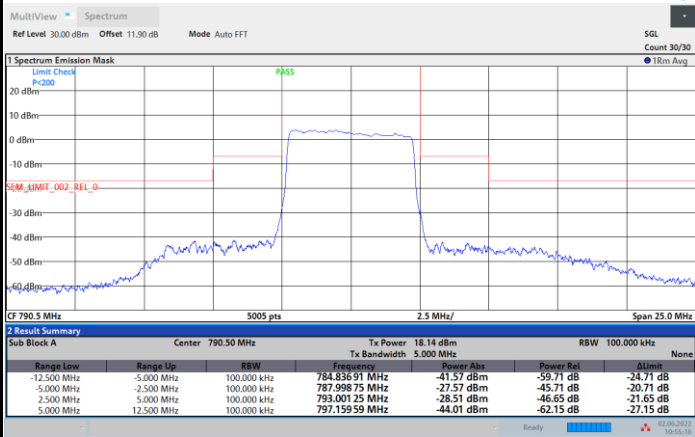
Lowest Channel

1RB0

1RBmax



Full RB



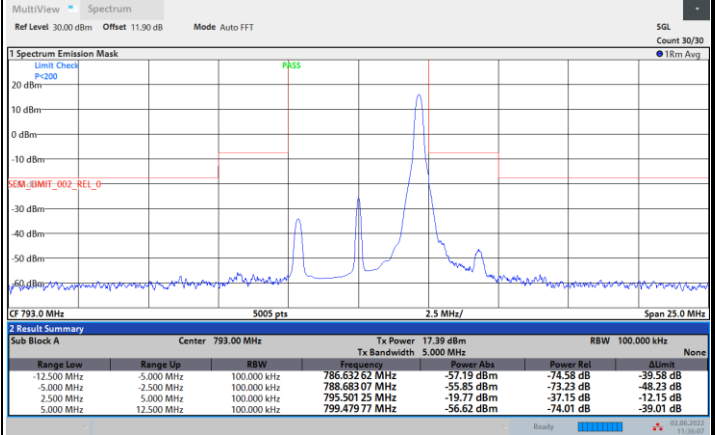
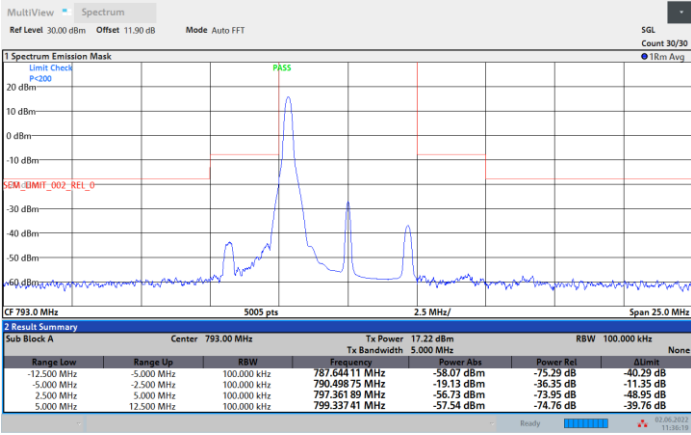


FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Middle Channel

1RB0

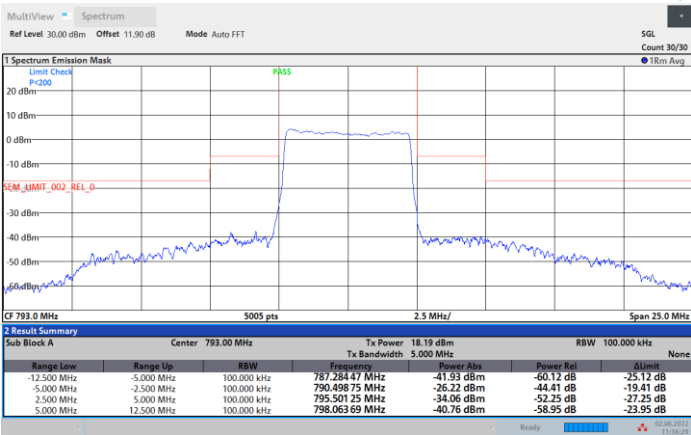
1RBmax



11:36:20 02.06.2022

11:36:08 02.06.2022

Full RB



11:36:30 02.06.2022

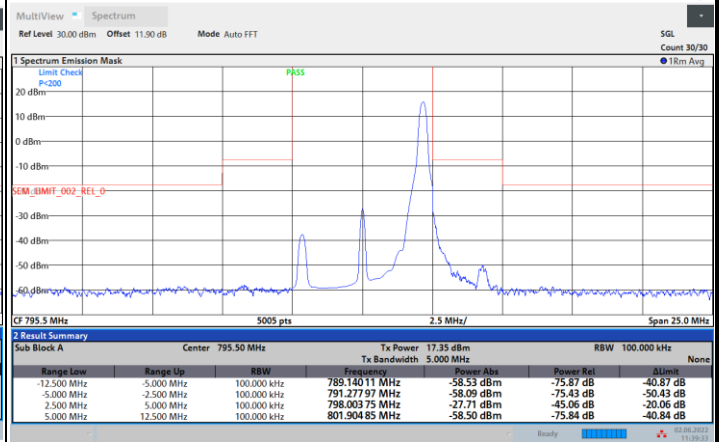
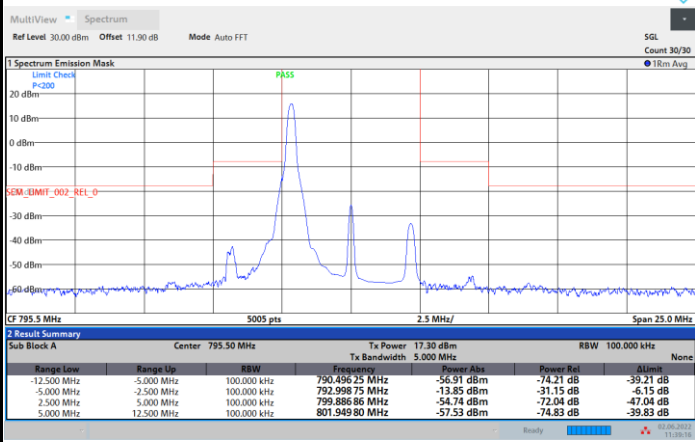


FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Highest Channel

1RB0

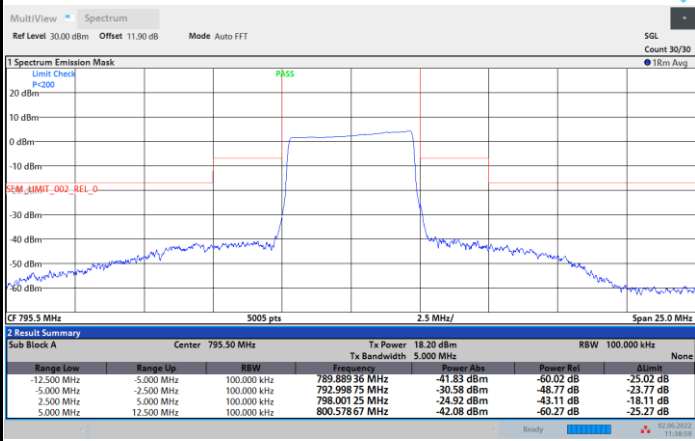
1RBmax



11:39:17 02.06.2022

11:39:33 02.06.2022

Full RB



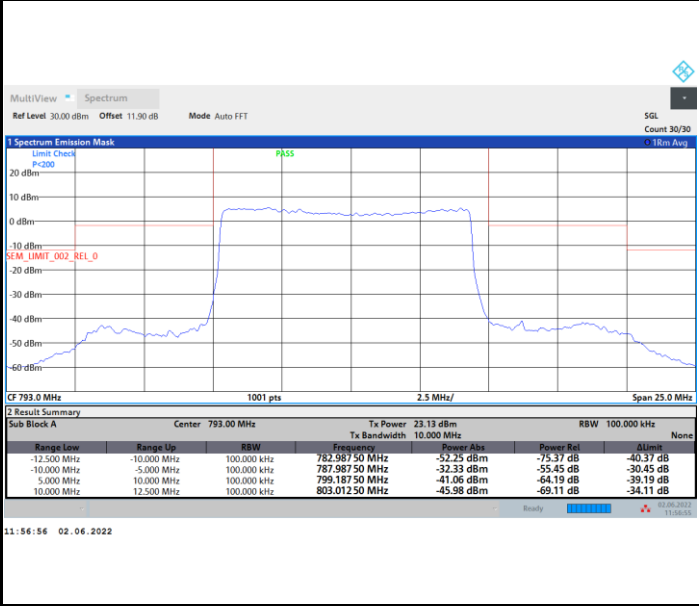
11:38:59 02.06.2022



FR1 n14 / 10MHz / DFT-S OFDM / BPSK

Middle Channel

Full RB

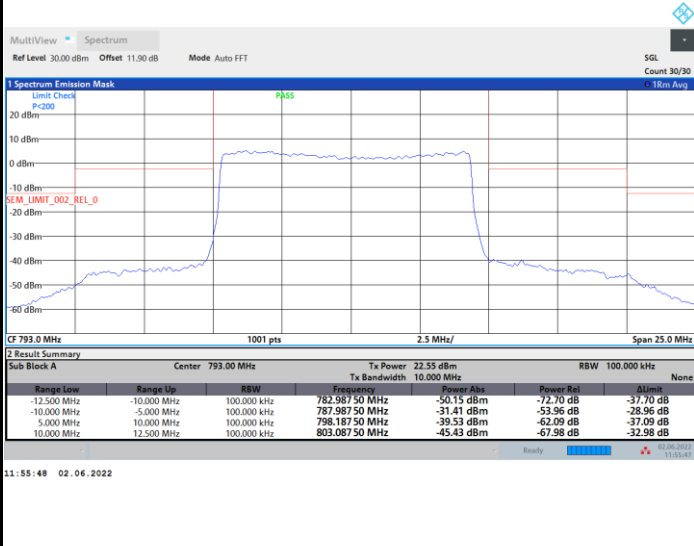




FR1 n14 / 10MHz / DFT-S OFDM / QPSK

Middle Channel

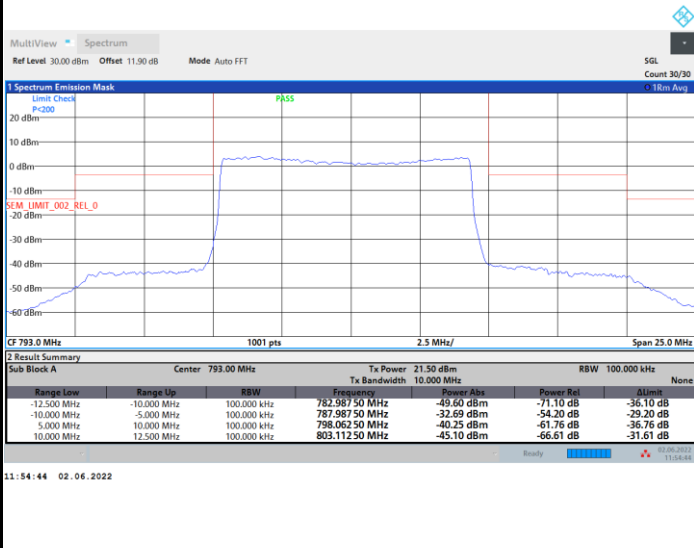
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

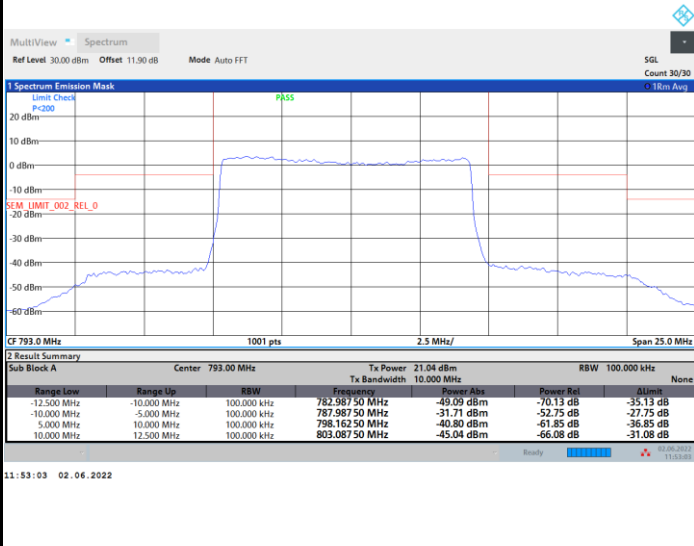




FR1 n14 / 10MHz / DFT-S OFDM / 64QAM

Middle Channel

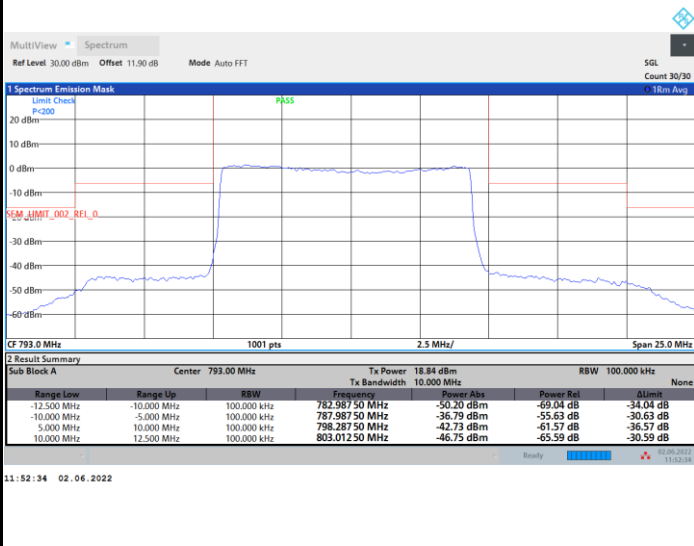
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / 256QAM

Middle Channel

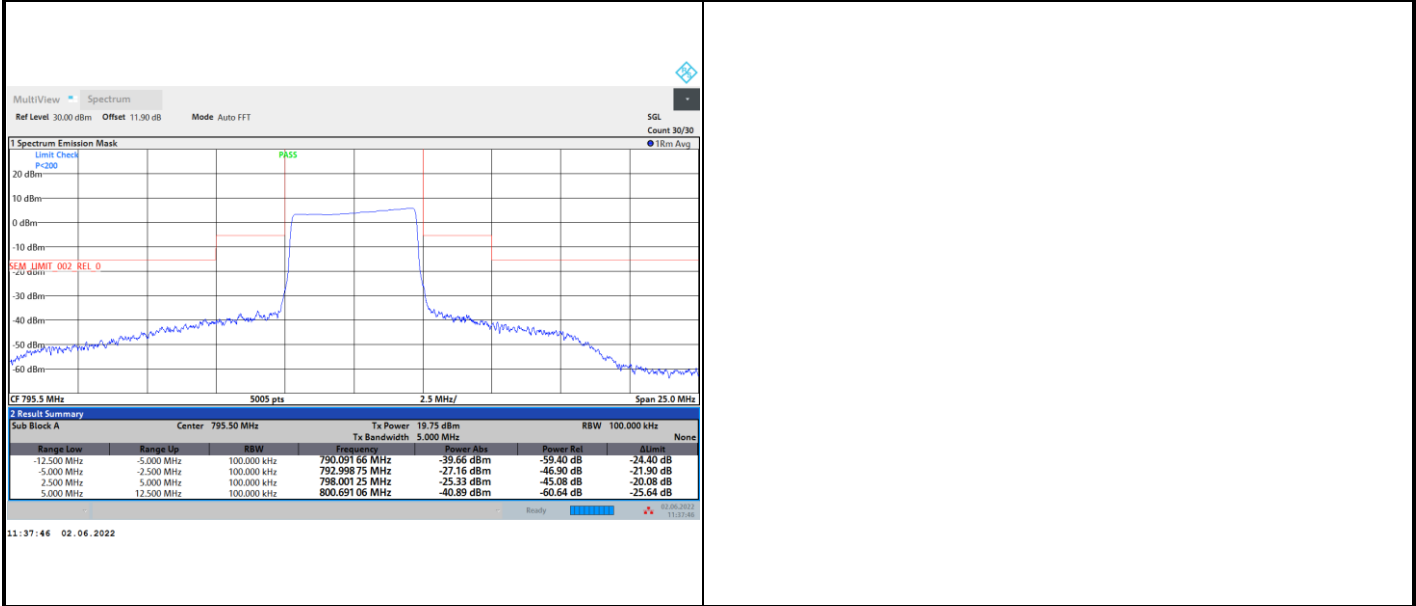
Full RB





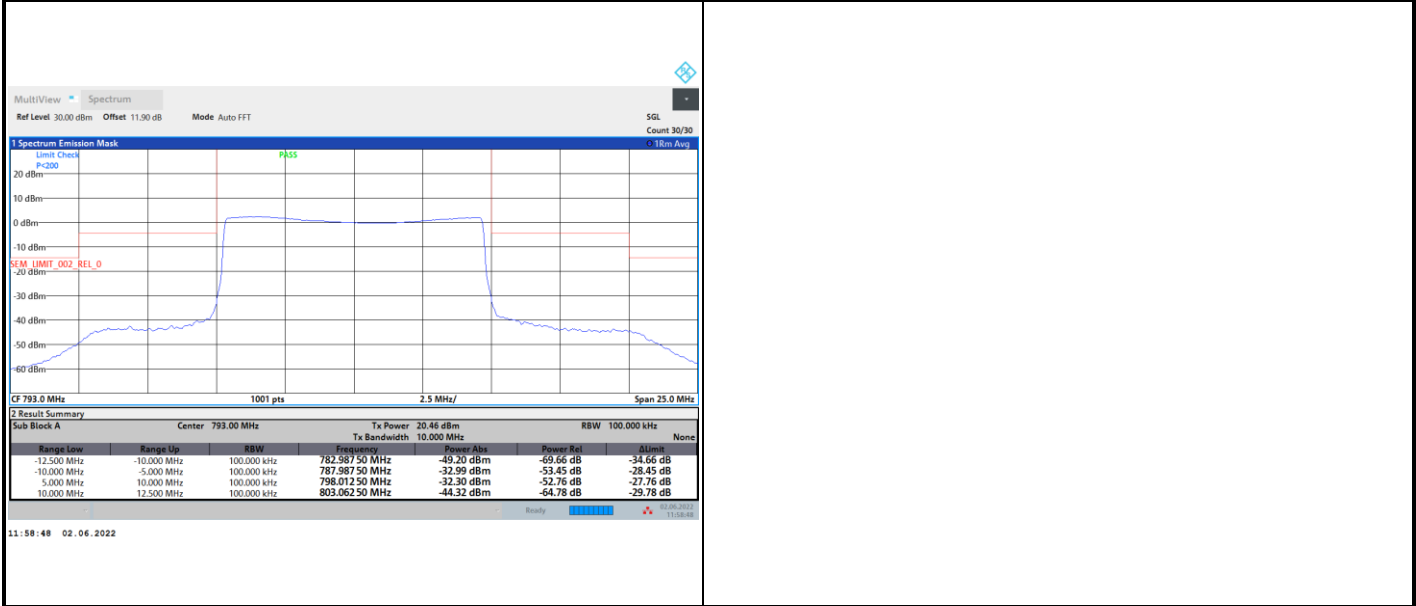
FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB

Highest Channel



FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB

Middle Channel

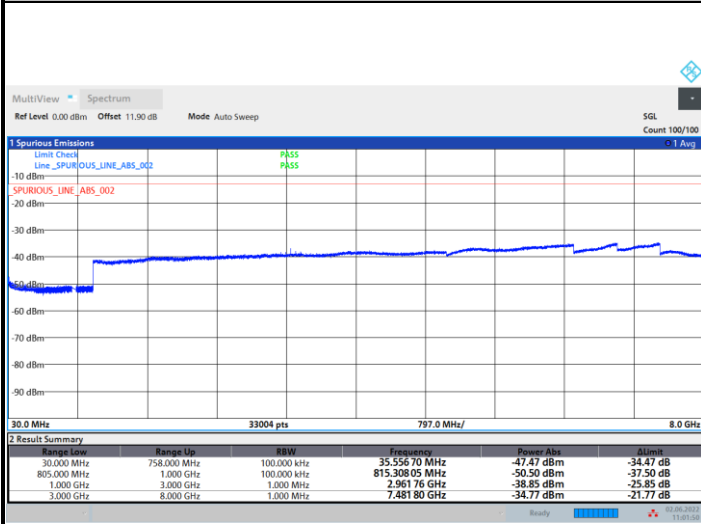




Conducted Spurious Emission

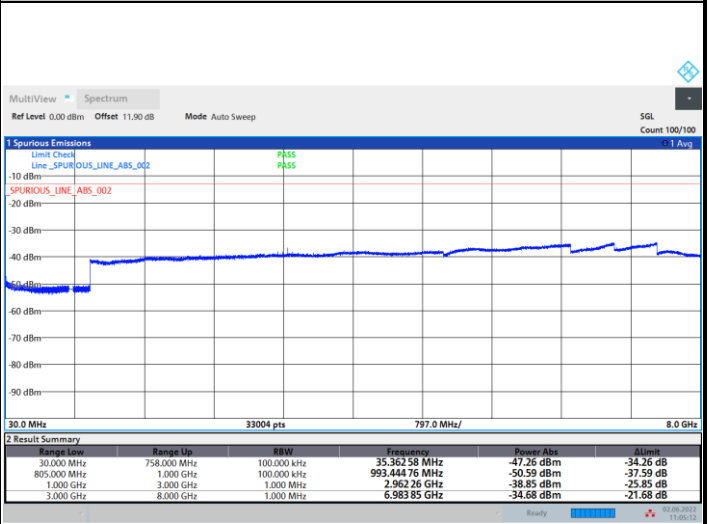
FR1 n14 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



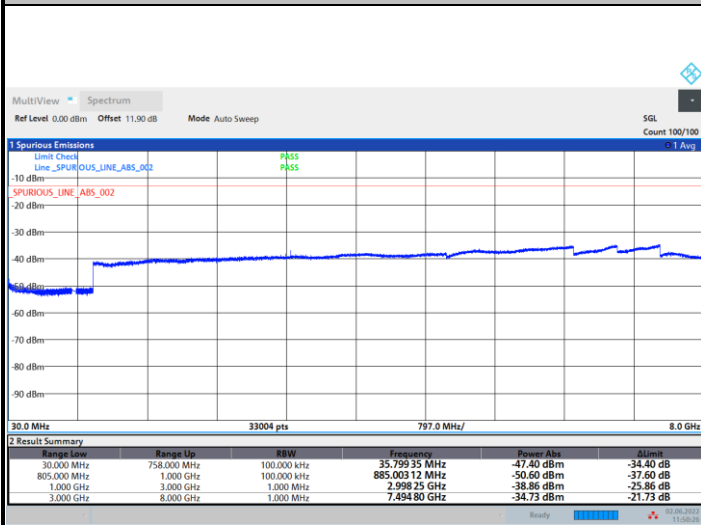
11:01:51 02.06.2022

Middle Channel



11:05:13 02.06.2022

Highest Channel



11:50:27 02.06.2022



Frequency Stability

Test Conditions		FR1 n14 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0153	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0197	
-10	Normal Voltage	0.0116	
-20	Normal Voltage	0.0188	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0101	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

5G NR n14

5G NR n14/ 5MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1577	-53.42	-42.15	-11.27	-64.86	-59.42	0.80	8.95	H
	2366	-56.11	-13	-43.11	-70.82	-62.80	0.99	9.83	H
	3157	-53.68	-13	-40.68	-71.10	-61.84	1.10	11.41	H
									H
									H
									H
	1577	-59.53	-42.15	-17.38	-70.89	-65.53	0.80	8.95	V
	2366	-56.05	-13	-43.05	-70.93	-62.74	0.99	9.83	V
	3157	-53.06	-13	-40.06	-70.70	-61.22	1.10	11.41	V
									V
									V
									V
Middle	1582	-49.52	-42.15	-7.37	-60.99	-55.57	0.80	9.00	H
	2373	-51.68	-13	-38.68	-66.37	-58.40	0.99	9.87	H
	3165	-53.33	-13	-40.33	-70.78	-61.51	1.10	11.43	H
									H
									H
									H
	1582	-56.21	-42.15	-14.06	-67.59	-62.26	0.80	9.00	V
	2373	-51.61	-13	-38.61	-66.44	-58.33	0.99	9.87	V
	3165	-52.73	-13	-39.73	-70.42	-60.91	1.10	11.43	V
									V
									V
									V



Highest	1590	-47.66	-42.15	-5.51	-59.17	-53.80	0.80	9.09	H
	2381	-48.48	-13	-35.48	-63.17	-55.24	1.00	9.91	H
	3174	-53.30	-13	-40.30	-70.80	-61.49	1.10	11.45	H
									H
									H
									H
	1590	-54.58	-42.15	-12.43	-65.97	-60.72	0.80	9.09	V
	2381	-46.02	-13	-33.02	-60.82	-52.78	1.00	9.91	V
	3174	-53.00	-13	-40.00	-70.75	-61.19	1.10	11.45	V
									V
									V
									V

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



5G NR n14 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1578	-49.69	-42.15	-7.54	-61.13	-55.70	0.80	8.96	H
	2366	-50.62	-13	-37.62	-65.33	-57.31	0.99	9.83	H
	3155	-53.47	-13	-40.47	-70.87	-61.63	1.10	11.41	H
									H
									H
									H
									H
	1578	-56.49	-42.15	-14.34	-67.86	-62.50	0.80	8.96	V
	2366	-51.70	-13	-38.70	-66.58	-58.39	0.99	9.83	V
	3155	-53.63	-13	-40.63	-71.27	-61.79	1.10	11.41	V
									V
									V
									V
									V

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