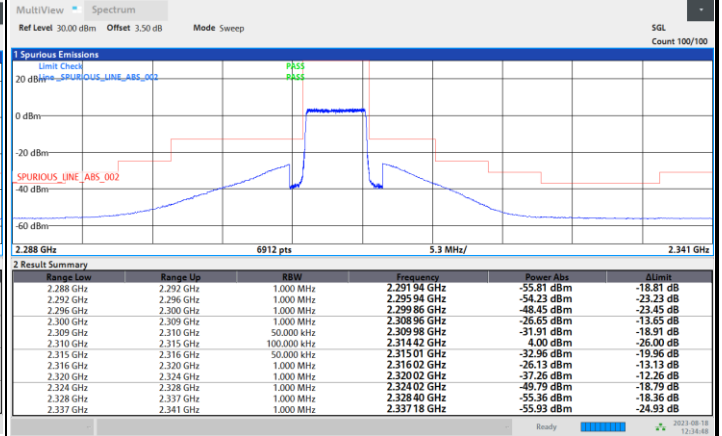
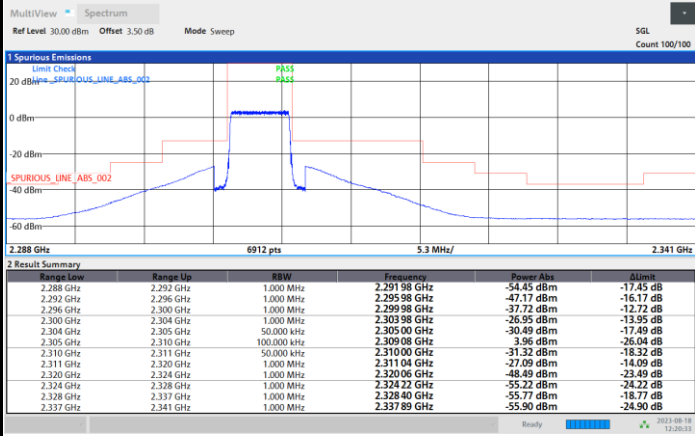




FR1 n30 / 5MHz / CP OFDM / QPSK / Full RB

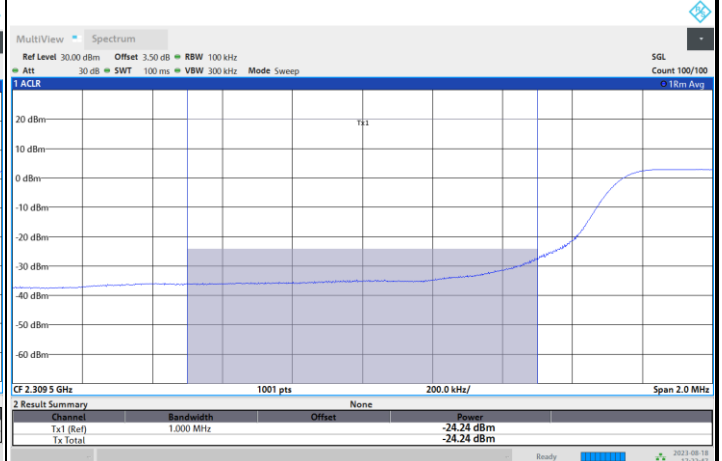
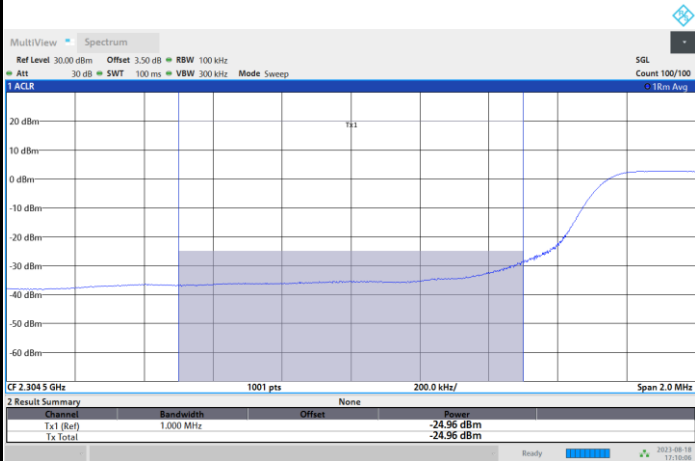
Lowest Band Edge

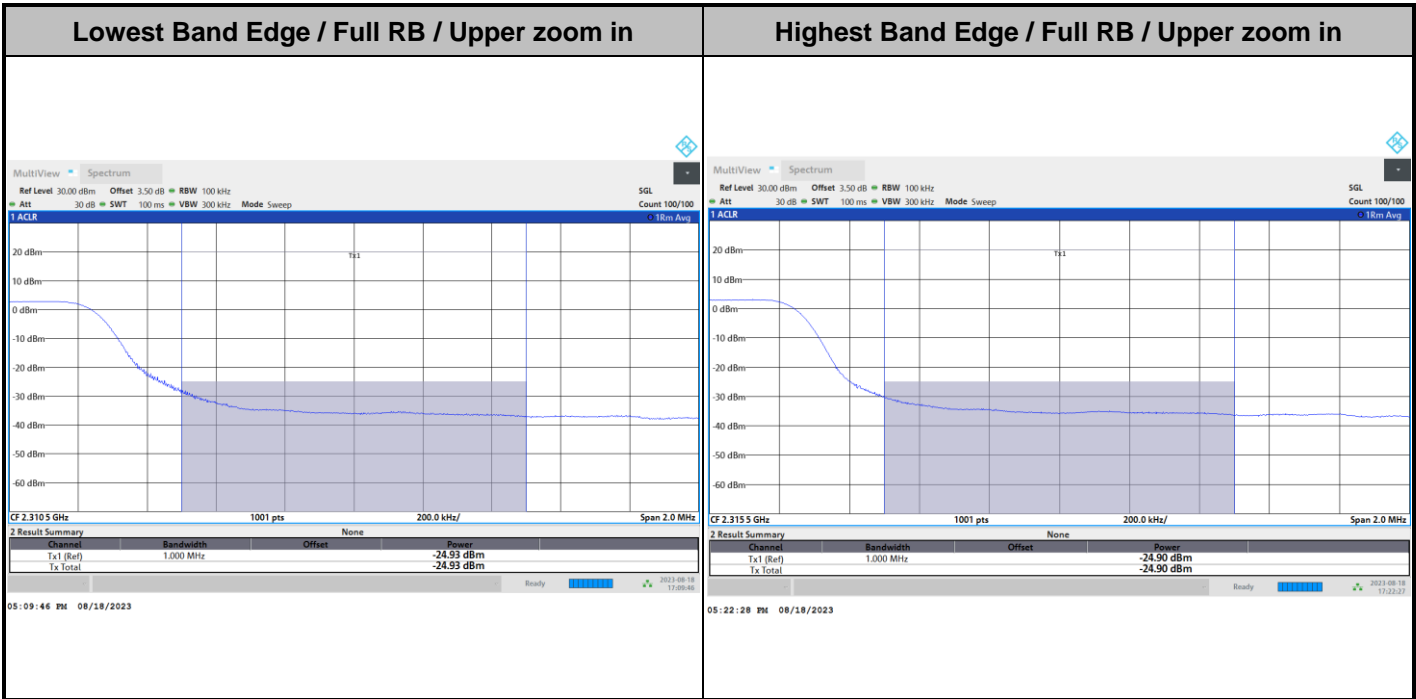
Highest Band Edge



Lowest Band Edge / Full RB / Lower zoom in

Highest Band Edge / Full RB / Lower zoom in

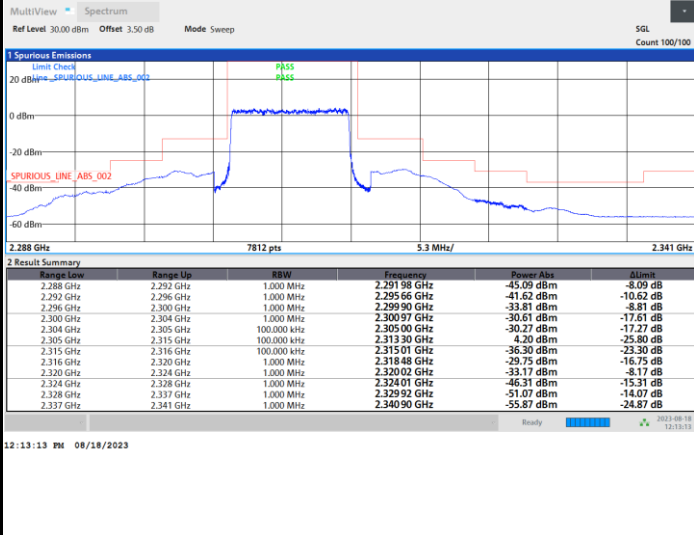




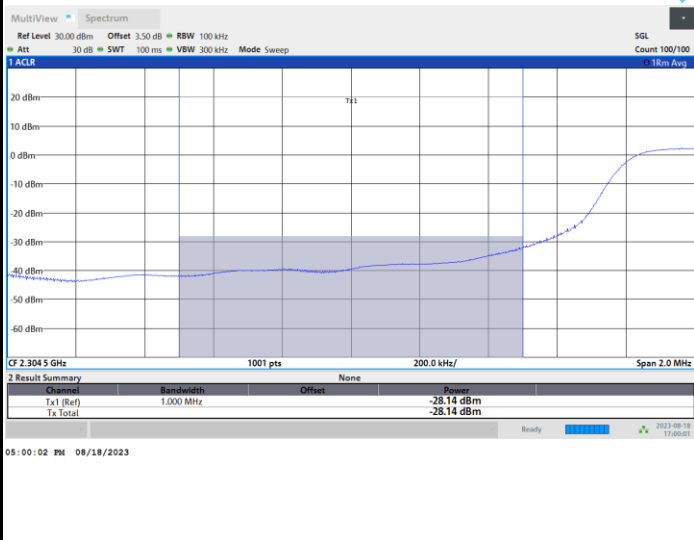


FR1 n30 / 10MHz / DFT-s-OFDM / PI/2 BPSK

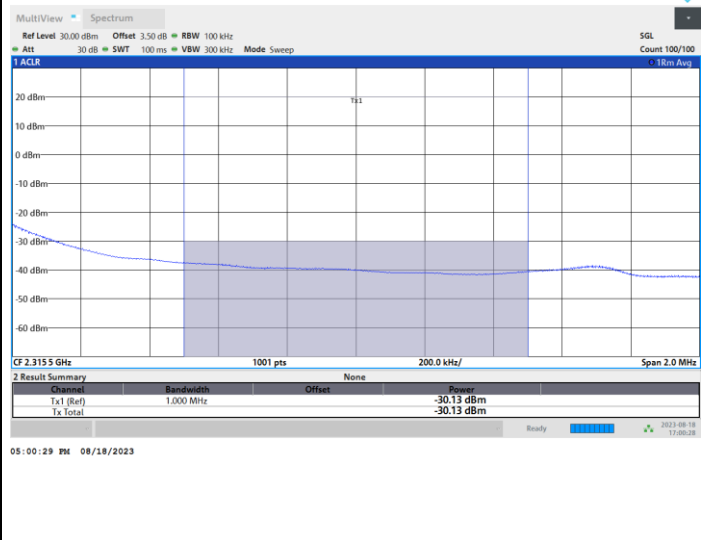
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



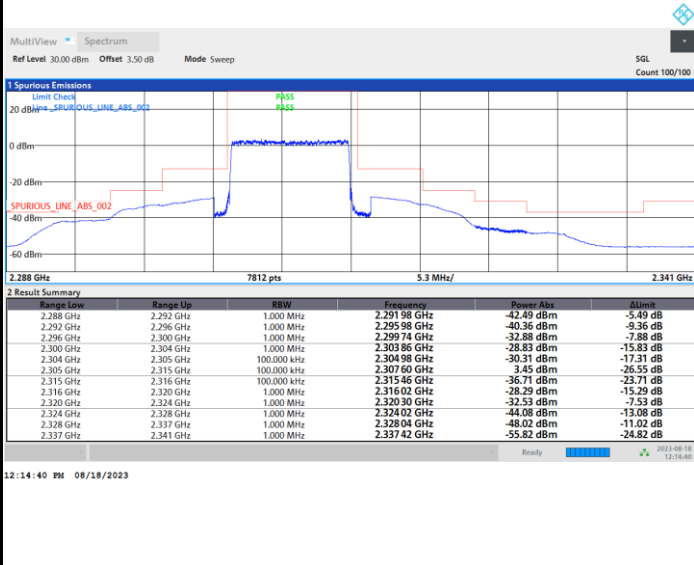
Middle Band Edge / Full RB / Upper zoom in



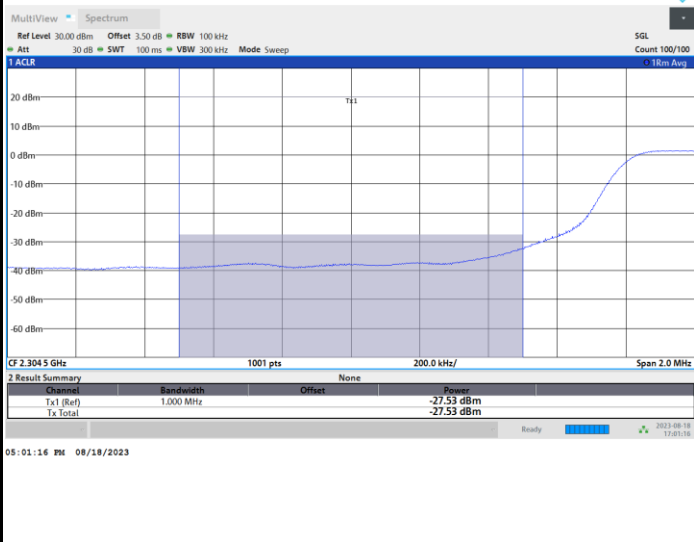


FR1 n30 / 10MHz / DFT-s-OFDM / QPSK

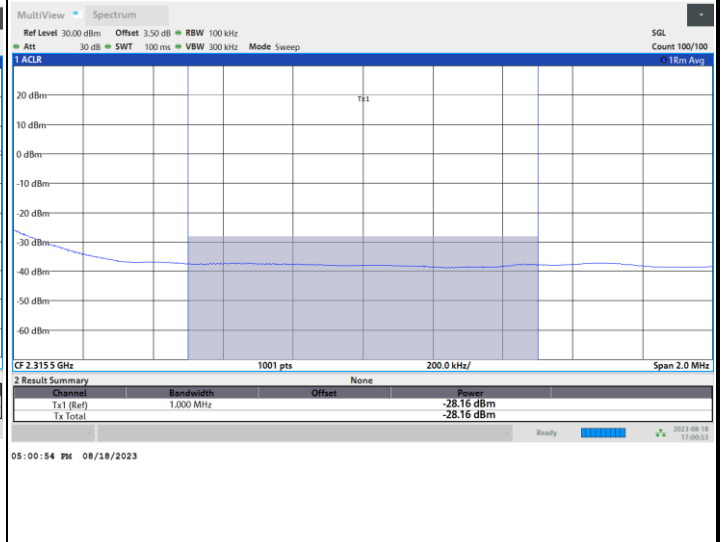
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



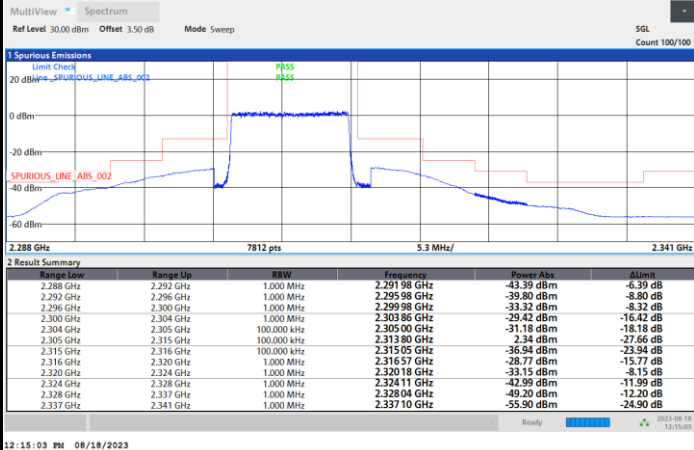
Middle Band Edge / Full RB / Upper zoom in



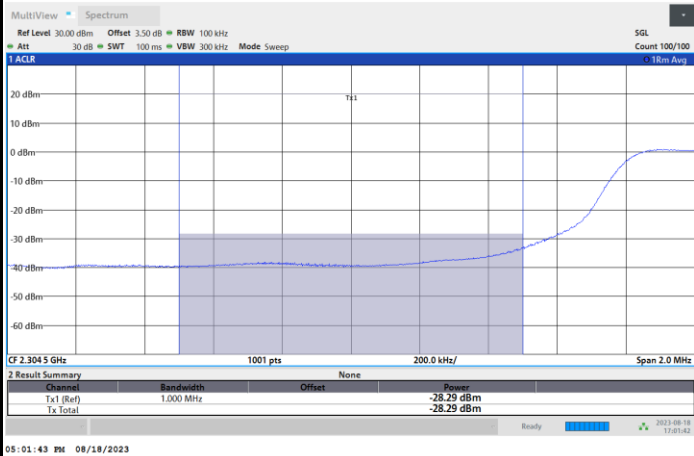


FR1 n30 / 10MHz / DFT-s-OFDM / 16QAM

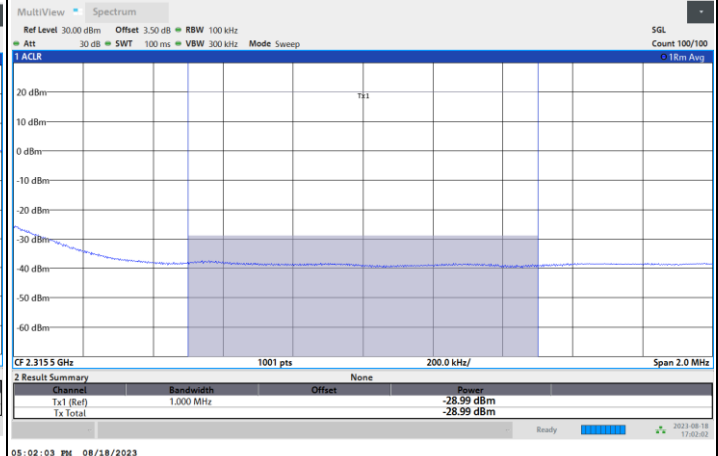
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



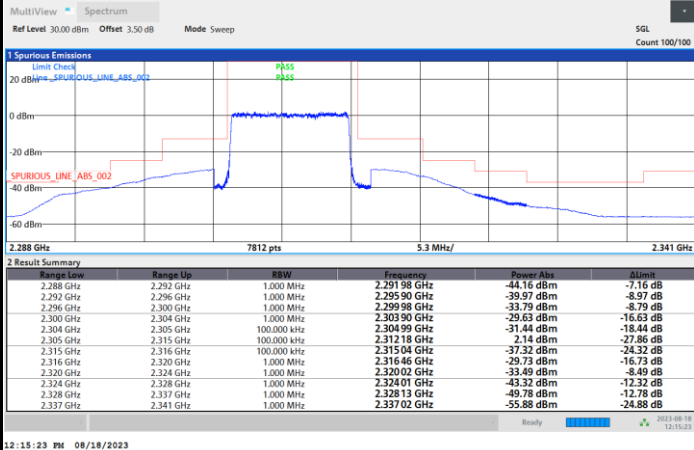
Middle Band Edge / Full RB / Upper zoom in



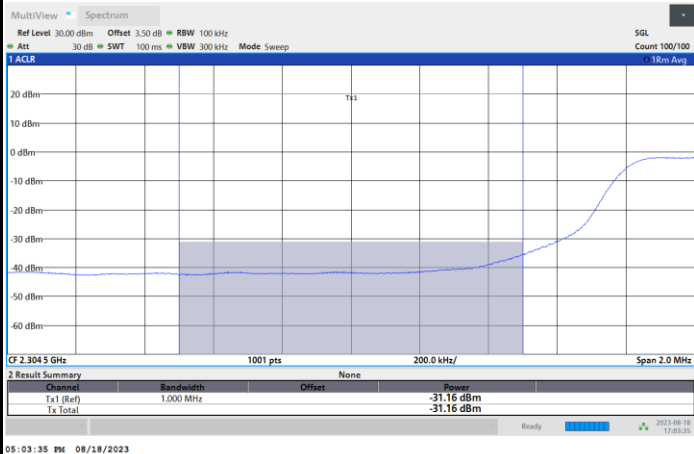


FR1 n30 / 10MHz / DFT-s-OFDM / 64QAM

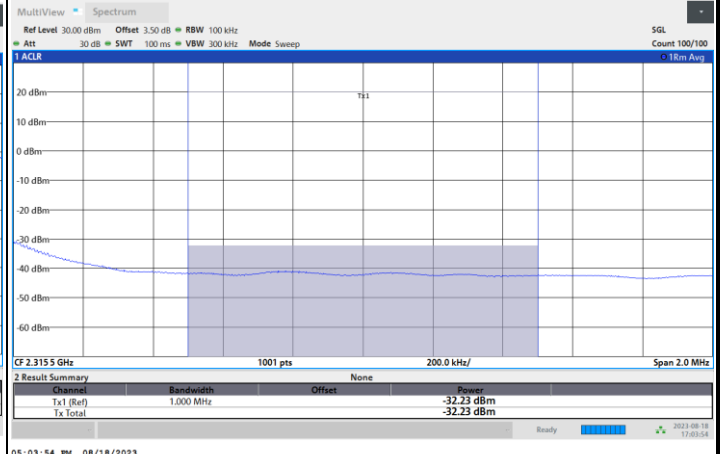
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



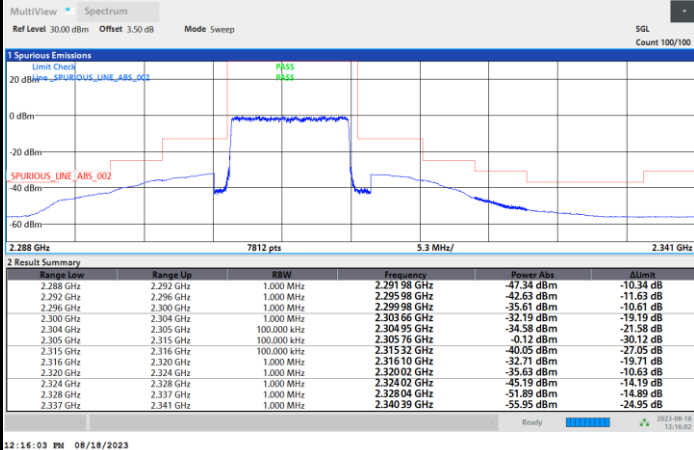
Middle Band Edge / Full RB / Upper zoom in



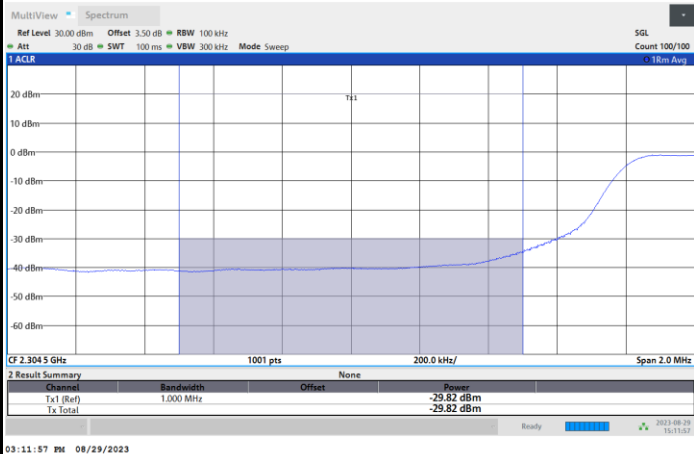


FR1 n30 / 10MHz / DFT-s-OFDM / 256QAM

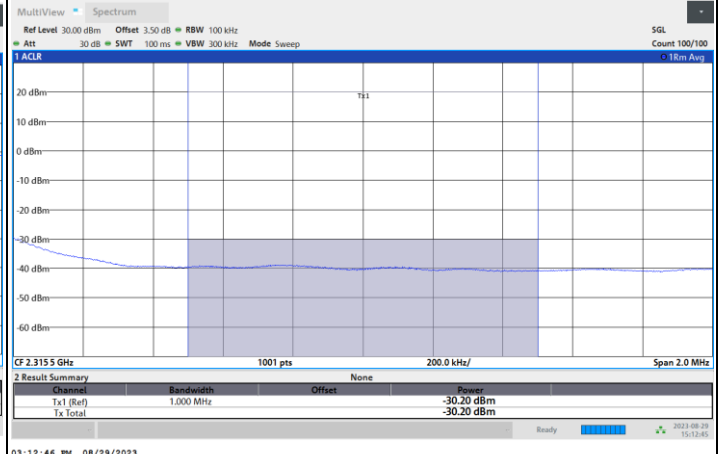
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



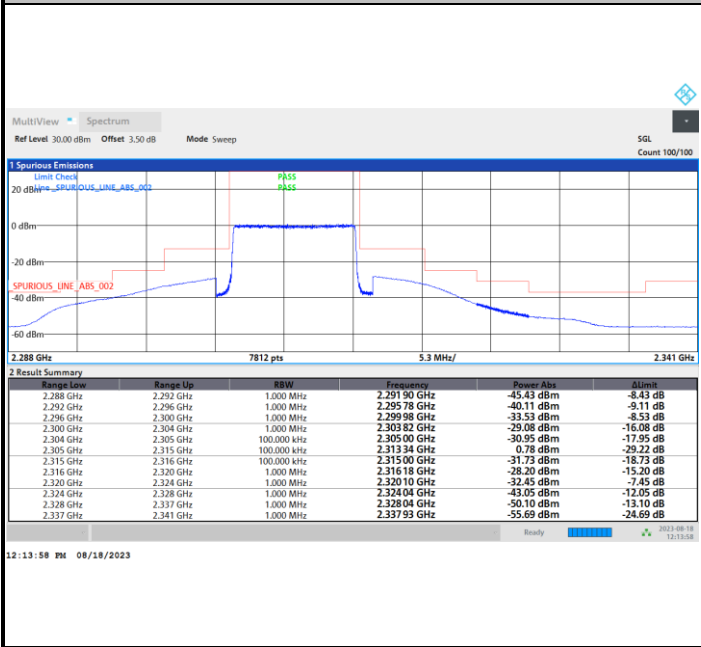
Middle Band Edge / Full RB / Upper zoom in



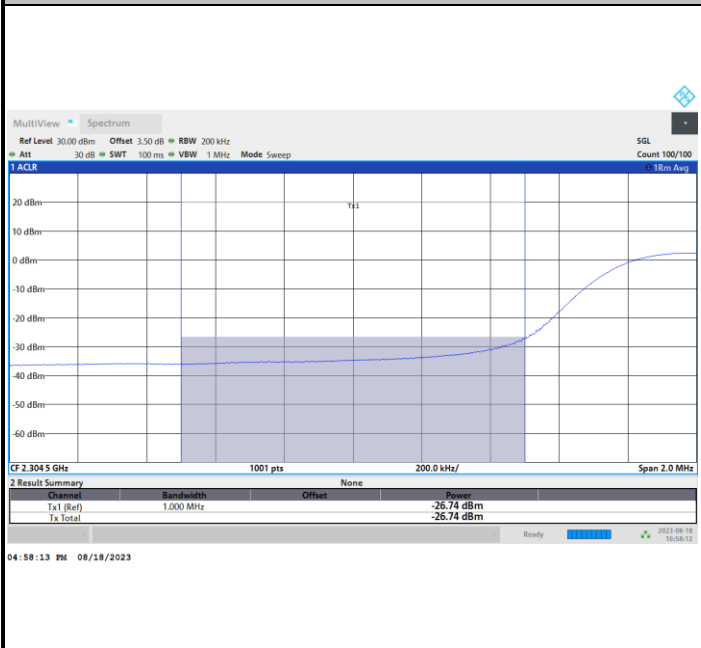


FR1 n30 / 10MHz / CP OFDM / QPSK / Full RB

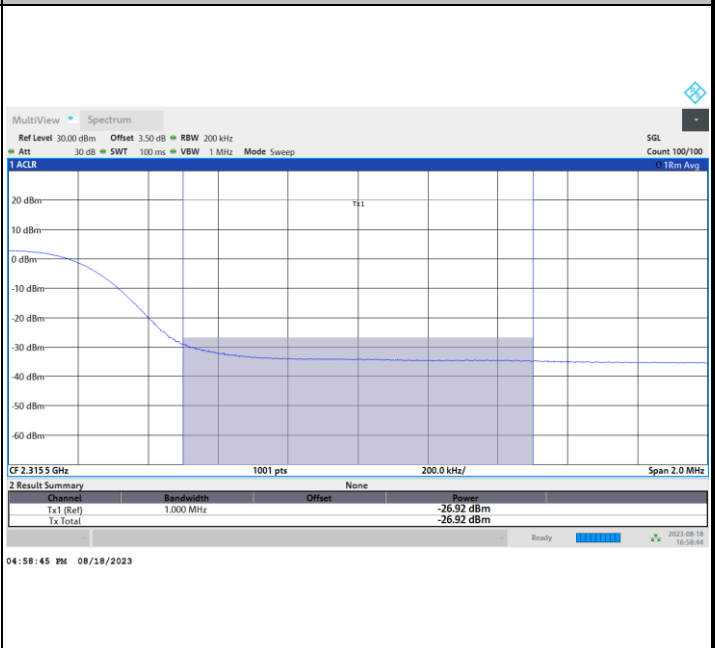
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



Middle Band Edge / Full RB / Upper zoom in



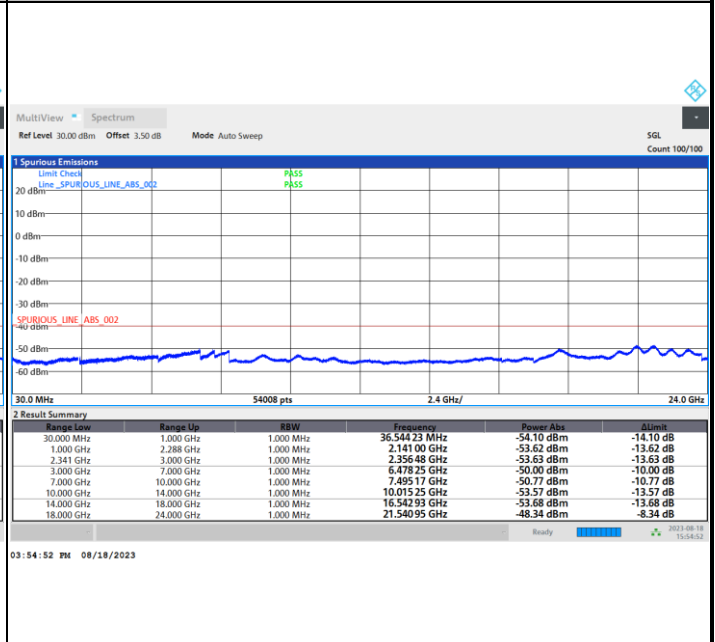
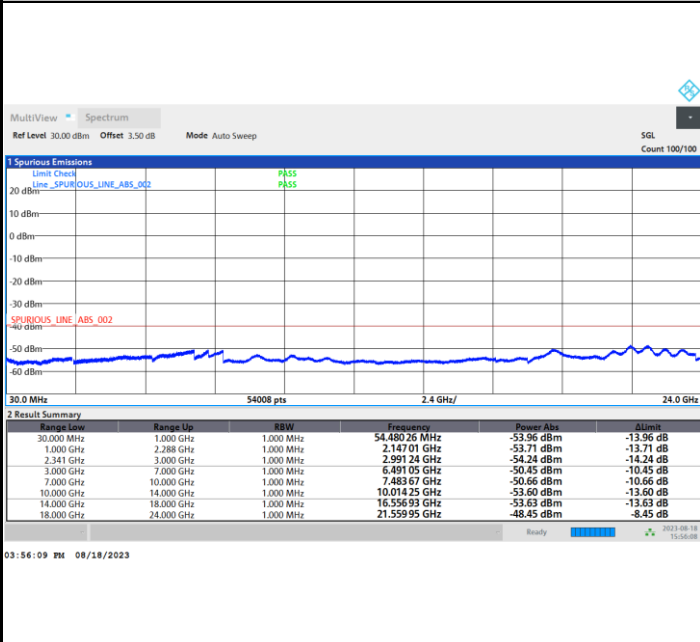


Conducted Spurious Emission

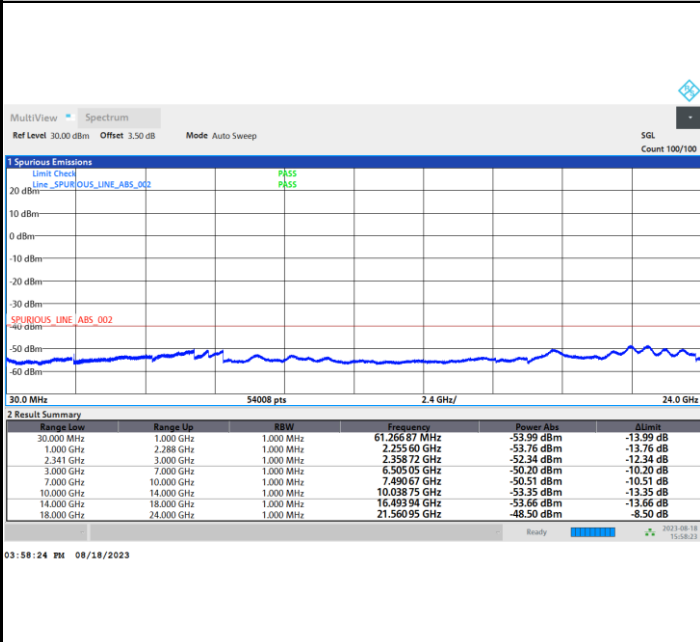
FR1 n30 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n30 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0153	PASS
40	Normal Voltage	0.0066	
30	Normal Voltage	0.0114	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0040	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0083	
20	Maximum Voltage	0.0049	
20	Normal Voltage	0.0078	
20	Battery End Point	0.0079	

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 n30 Part 27D

5G NR n30 / 5MHz / 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	4611	-66.09	-40	-26.09	-51.19	-76.79	0.98	11.68	H
	6916	-56.24	-40	-16.24	-49.33	-65.93	1.29	10.97	H
	9222	-61.26	-40	-21.26	-55.81	-71.00	1.47	11.21	H
									H
									H
									H
	4611	-64.59	-40	-24.59	-50.64	-75.29	0.98	11.68	V
	6916	-53.37	-40	-13.37	-47.89	-63.06	1.29	10.97	V
	9222	-62.60	-40	-22.60	-56.37	-72.34	1.47	11.21	V
									V
									V
									V
Middle	4616	-66.78	-40	-26.78	-51.93	-77.47	0.98	11.68	H
	6924	-61.34	-40	-21.34	-54.43	-71.04	1.29	10.99	H
	9232	-60.90	-40	-20.90	-55.49	-70.64	1.47	11.22	H
									H
									H
									H
	4616	-65.73	-40	-25.73	-51.38	-76.42	0.98	11.68	V
	6924	-60.01	-40	-20.01	-54.53	-69.71	1.29	10.99	V
	9232	-61.90	-40	-21.90	-55.7	-71.64	1.47	11.22	V
									V
									V
									V



Highest	4621	-66.38	-40	-26.38	-51.57	-77.07	0.98	11.67	H
	6931	-56.59	-40	-16.59	-49.67	-66.30	1.29	11.00	H
	9242	-61.36	-40	-21.36	-55.99	-71.11	1.47	11.22	H
									H
									H
									H
									H
	4621	-64.96	-40	-24.96	-51.1	-75.65	0.98	11.67	V
	6931	-55.30	-40	-15.30	-49.81	-65.01	1.29	11.00	V
	9242	-61.61	-40	-21.61	-55.45	-71.36	1.47	11.22	V
									V
									V
									V
									V

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



5G NR n30 / 10MHz / 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)
Middle	4611	-64.36	-40	-24.36	-49.46	-75.06	0.98	11.68	H
	6917	-52.82	-40	-12.82	-45.91	-62.51	1.29	10.98	H
	9223	-60.15	-40	-20.15	-54.71	-69.89	1.47	11.21	H
									H
									H
									H
									H
	4611	-61.30	-40	-21.30	-47.35	-72.00	0.98	11.68	V
	6917	-50.75	-40	-10.75	-45.27	-60.44	1.29	10.98	V
	9223	-61.41	-40	-21.41	-55.19	-71.15	1.47	11.21	V
									V
									V
									V
									V

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



<Ant. 1 + Ant. 3>

EN-DC 5A-n30A Part 27D

EN-DC 5A-n30A / 10+5MHz / QPSK									
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	4611	-62.88	-40	-22.88	-47.98	-73.58	0.98	11.68	H
	6916	-50.10	-40	-10.10	-43.19	-59.79	1.29	10.97	H
	9222	-61.07	-40	-21.07	-55.62	-70.81	1.47	11.21	H
									H
									H
	4611	-57.12	-40	-17.12	-43.17	-67.82	0.98	11.68	V
	6916	-51.21	-40	-11.21	-45.73	-60.90	1.29	10.97	V
	9222	-61.80	-40	-21.80	-55.57	-71.54	1.47	11.21	V
									V
									V
									V
									V
Middle	4616	-64.41	-40	-24.41	-49.56	-75.10	0.98	11.68	H
	6924	-56.52	-40	-16.52	-49.61	-66.22	1.29	10.99	H
	9232	-60.95	-40	-20.95	-55.54	-70.69	1.47	11.22	H
									H
									H
	4616	-60.96	-40	-20.96	-47.06	-71.65	0.98	11.68	V
	6924	-54.73	-40	-14.73	-50.25	-64.43	1.29	10.99	V
	9232	-62.14	-40	-22.14	-55.94	-71.88	1.47	11.22	V
									V
									V
									V
									V



Highest	4621	-62.45	-40	-22.45	-47.64	-73.14	0.98	11.67	H
	6931	-53.65	-40	-13.65	-46.73	-63.36	1.29	11.00	H
	9242	-61.02	-40	-21.02	-55.65	-70.77	1.47	11.22	H
									H
									H
									H
									H
	4621	-58.48	-40	-18.48	-44.62	-69.17	0.98	11.67	V
	6931	-53.14	-40	-13.14	-47.65	-62.85	1.29	11.00	V
	9242	-61.50	-40	-21.50	-55.34	-71.25	1.47	11.22	V
									V
									V
									V
									V

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