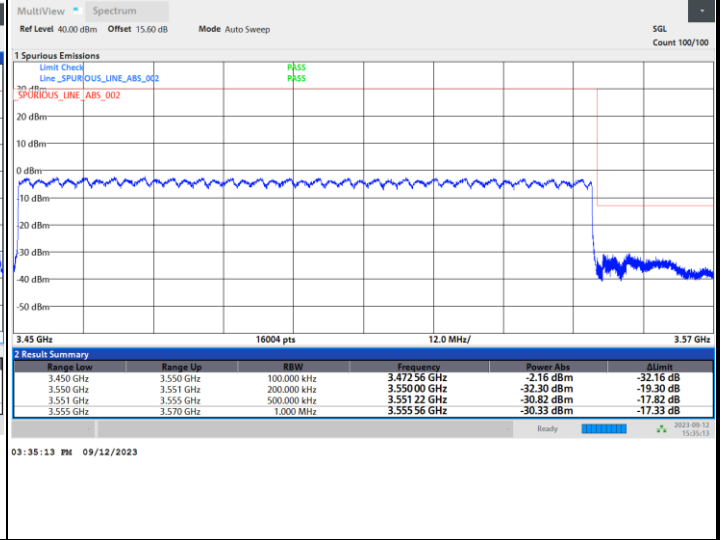
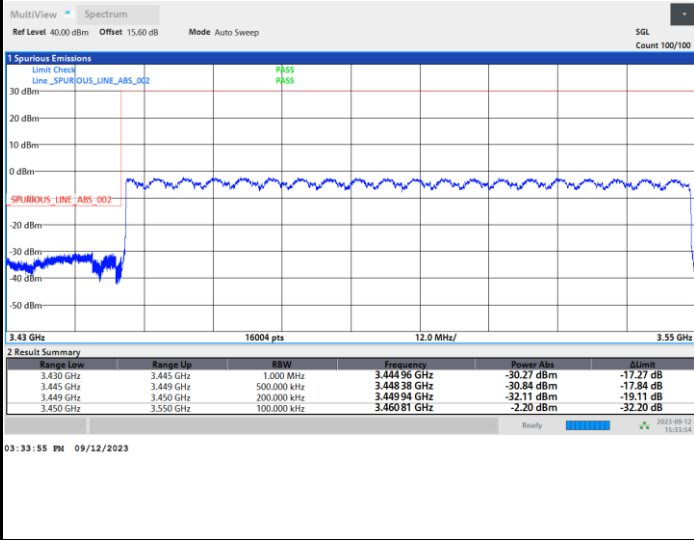




5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

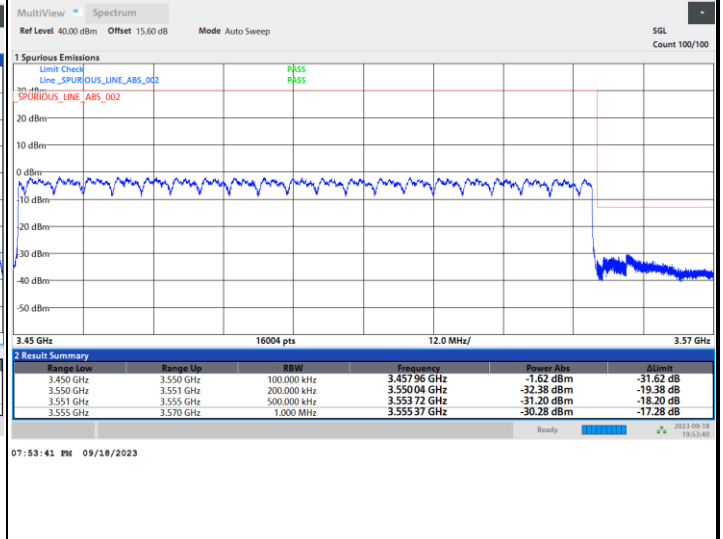
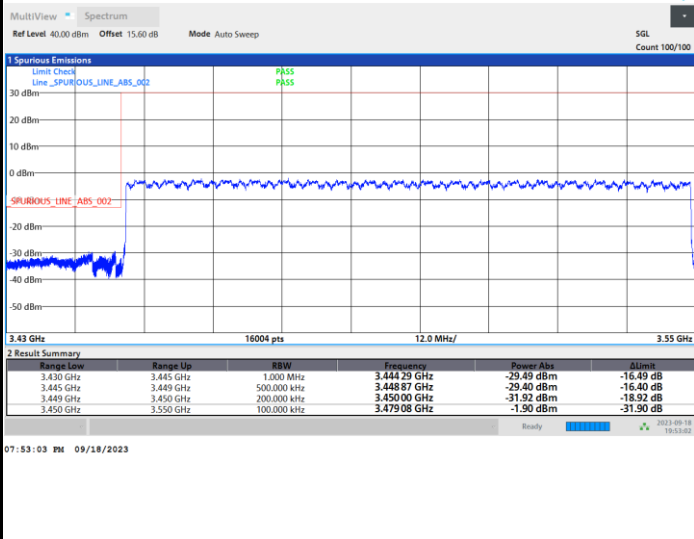
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

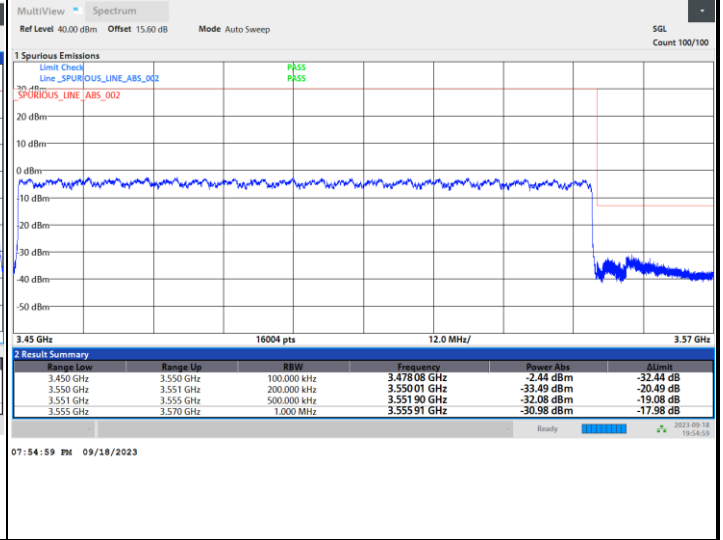
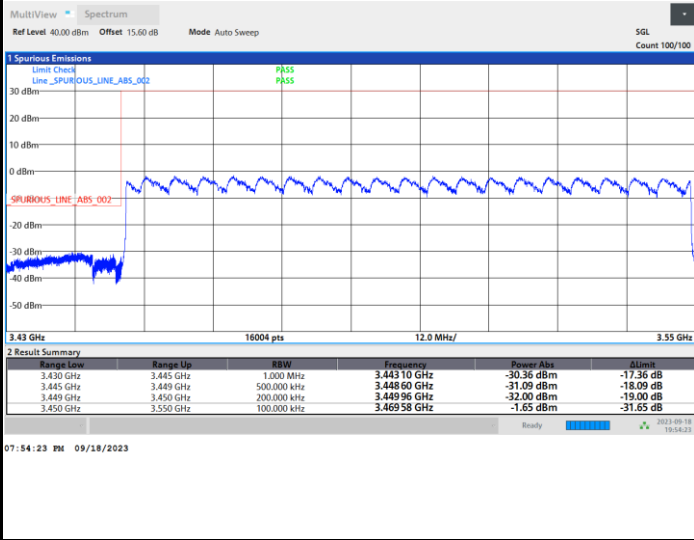




5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

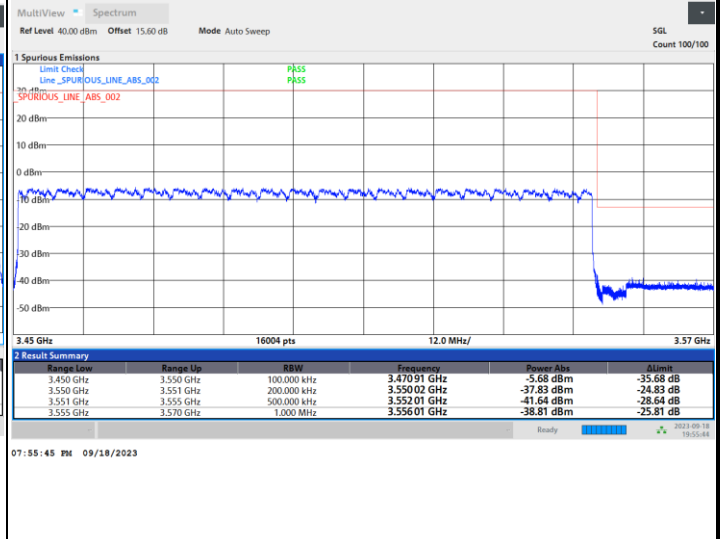
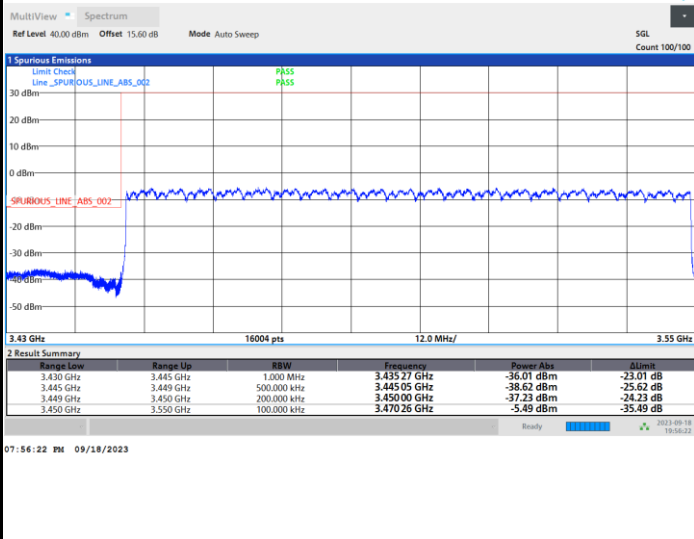
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



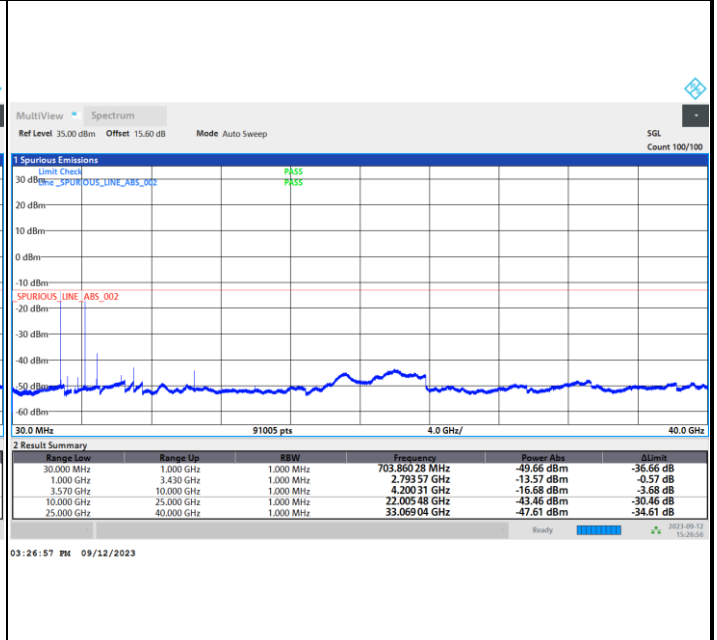
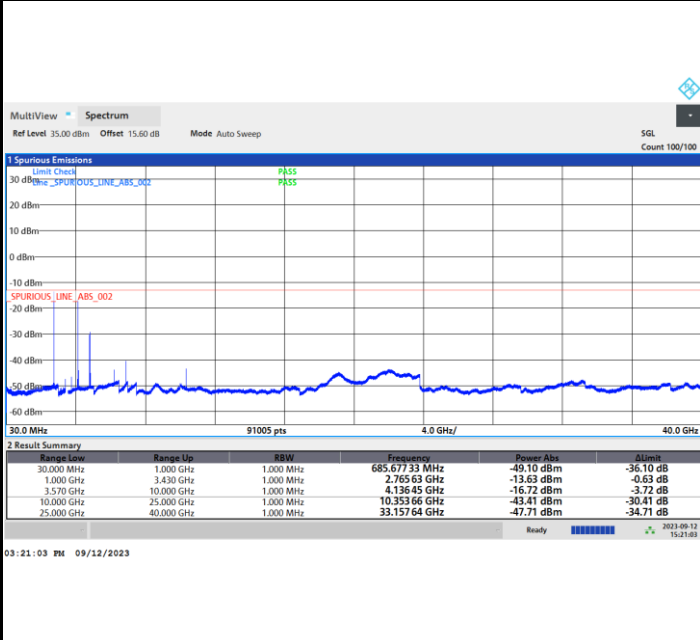


Conducted Spurious Emission

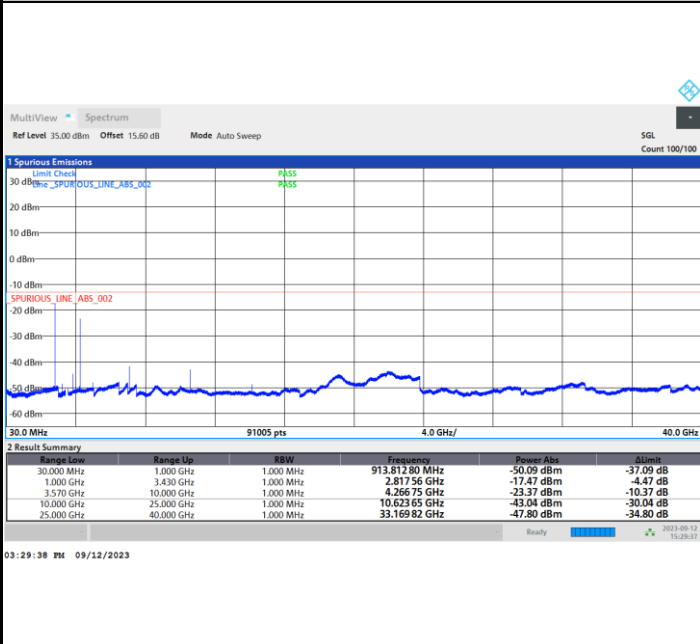
5G-FR1 SA UL MIMO n77 (PC1.5) / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		5G-FR1 SA UL MIMO n77 (PC1.5) (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage = 48 V. ; Minimum Voltage = 42.5 V. ; Maximum Voltage = 57 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Ant. 4>

5G-FR1 SA n77 (PC2)

5G-FR1 SA n77 (PC2) / 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)
Lowest	2784	-33.13	-13	-20.13	-46.35	-40.84	0.81	10.67	H
	4120	-29.17	-13	-16.17	-47.33	-37.45	0.95	11.38	H
	6901	-38.97	-13	-25.97	-63.5	-46.49	1.29	10.95	H
	10352	-40.18	-13	-27.18	-70.06	-48.26	1.54	11.77	H
	13803	-38.60	-13	-25.60	-73.25	-47.35	1.88	12.78	H
	20704	-71.22	-13	-58.22	-78.07	-85.60	2.33	18.86	H
	24155	-68.14	-13	-55.14	-78.47	-83.21	2.28	19.50	H
	27606	-66.70	-13	-53.70	-79.13	-81.31	2.70	19.46	H
	2784	-21.73	-13	-8.73	-34.76	-29.44	0.81	10.67	V
	4120	-16.08	-13	-3.08	-35	-24.36	0.95	11.38	V
	6901	-35.79	-13	-22.79	-61.75	-43.31	1.29	10.95	V
	10352	-40.76	-13	-27.76	-69.39	-48.84	1.54	11.77	V
	13803	-38.79	-13	-25.79	-73.35	-47.54	1.88	12.78	V
	20704	-70.60	-13	-57.60	-77.85	-84.98	2.33	18.86	V
	24155	-67.40	-13	-54.40	-78.42	-82.47	2.28	19.50	V
	27606	-66.58	-13	-53.58	-79.35	-81.19	2.70	19.46	V



Middle	2808	-24.53	-13	-11.53	-37.86	-32.24	0.82	10.68	H
	4188	-19.57	-13	-6.57	-37.77	-27.96	0.94	11.48	H
	6991	-32.60	-13	-19.60	-57.09	-40.25	1.29	11.09	H
	10487	-37.34	-13	-24.34	-67.46	-45.45	1.54	11.80	H
	13983	-39.53	-13	-26.53	-73.69	-48.26	1.83	12.71	H
	20974	-67.85	-13	-54.85	-74.79	-81.95	2.56	18.81	H
	24470	-67.69	-13	-54.69	-78.14	-82.75	2.29	19.50	H
	27966	-67.01	-13	-54.01	-78.38	-81.51	2.66	19.31	H
	2808	-13.45	-13	-0.45	-26.53	-21.16	0.82	10.68	V
	4188	-13.29	-13	-0.29	-32.24	-21.68	0.94	11.48	V
	6991	-33.99	-13	-20.99	-59.91	-41.64	1.29	11.09	V
	10487	-39.81	-13	-26.81	-68.58	-47.92	1.54	11.80	V
	13983	-39.36	-13	-26.36	-73.56	-48.09	1.83	12.71	V
	20974	-69.39	-13	-56.39	-76.7	-83.49	2.56	18.81	V
	24470	-65.96	-13	-52.96	-76.98	-81.02	2.29	19.50	V
	27966	-66.85	-13	-53.85	-78.62	-81.35	2.66	19.31	V
Highest	2828	-28.38	-13	-15.38	-41.88	-36.03	0.81	10.62	H
	4256	-22.38	-13	-9.38	-40.87	-30.74	0.96	11.47	H
	7081	-37.08	-13	-24.08	-61.52	-44.41	1.29	10.78	H
	10622	-38.54	-13	-25.54	-68.93	-46.73	1.56	11.90	H
	14163	-39.18	-13	-26.18	-73.33	-47.93	1.86	12.77	H
	21244	-71.03	-13	-58.03	-78.47	-85.40	2.33	18.85	H
	24785	-67.81	-13	-54.81	-78.44	-82.58	2.24	19.16	H
	28326	-65.98	-13	-52.98	-77.62	-80.18	2.82	19.17	H
	2828	-16.62	-13	-3.62	-29.87	-24.27	0.81	10.62	V
	4256	-13.27	-13	-0.27	-32.45	-21.63	0.96	11.47	V
	7081	-36.54	-13	-23.54	-62.43	-43.87	1.29	10.78	V
	10622	-41.79	-13	-28.79	-70.93	-49.98	1.56	11.90	V
	14163	-39.46	-13	-26.46	-73.77	-48.21	1.86	12.77	V
	21244	-69.20	-13	-56.20	-77.07	-83.57	2.33	18.85	V
	24785	-67.08	-13	-54.08	-78.18	-81.85	2.24	19.16	V
28326	-65.62	-13	-52.62	-77.68	-79.82	2.82	19.17	V	

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



<Ant. 0+4>

5G-FR1 EN-DC 71A-n77A

5G-FR1 EN-DC 71A-n77A / 15MHz / 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	6987	-41.54	-13	-28.54	-66.03	-49.18	1.29	11.08	H
	10481	-42.02	-13	-29.02	-72.13	-50.13	1.54	11.80	H
	13974	-39.11	-13	-26.11	-73.29	-47.84	1.83	12.71	H
	21097	-70.29	-13	-57.29	-77.44	-84.48	2.48	18.82	H
	24613	-68.67	-13	-55.67	-79.2	-83.61	2.27	19.36	H
	28129	-66.92	-13	-53.92	-78.34	-81.29	2.72	19.25	H
	6987	-40.11	-13	-27.11	-66.03	-47.75	1.29	11.08	V
	10481	-43.11	-13	-30.11	-71.88	-51.22	1.54	11.80	V
	13974	-38.81	-13	-25.81	-73.02	-47.54	1.83	12.71	V
	21097	-70.50	-13	-57.50	-78.04	-84.69	2.48	18.82	V
	24613	-68.34	-13	-55.34	-79.4	-83.28	2.27	19.36	V
	28129	-66.63	-13	-53.63	-78.46	-81.00	2.72	19.25	V

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



MIMO <Ant. 4+6>

5G-FR1 SA n77 MIMO (PC1.5)

5G-FR1 SA n77 MIMO (PC1.5) / 10MHz / 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	2775	-16.95	-13	-3.95	-30.14	-24.64	0.81	10.65	H
	4125	-15.70	-13	-2.70	-33.86	-23.99	0.95	11.39	H
	6901	-31.38	-13	-18.38	-68.91	-38.90	1.29	10.95	H
	10352	-41.38	-13	-28.38	-71.26	-49.46	1.54	11.77	H
	13803	-38.32	-13	-25.32	-72.97	-47.07	1.88	12.78	H
	20704	-66.08	-13	-53.08	-72.93	-80.46	2.33	18.86	H
	24155	-63.16	-13	-50.16	-73.49	-78.23	2.28	19.50	H
	27606	-66.81	-13	-53.81	-79.24	-81.42	2.70	19.46	H
	2776	-24.79	-13	-11.79	-37.99	-32.48	0.81	10.65	V
	4128	-23.33	-13	-10.33	-41.49	-31.62	0.95	11.39	V
	6901	-43.09	-13	-30.09	-69.05	-50.61	1.29	10.95	V
	10352	-42.89	-13	-29.89	-71.52	-50.97	1.54	11.77	V
	13803	-38.43	-13	-25.43	-72.99	-47.18	1.88	12.78	V
	20704	-70.50	-13	-57.50	-77.75	-84.88	2.33	18.86	V
	24155	-64.28	-13	-51.28	-75.3	-79.35	2.28	19.50	V
	27606	-65.47	-13	-52.47	-78.24	-80.08	2.70	19.46	V



5G-FR1 SA n77 MIMO (PC1.5) / 10MHz / 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)
Middle	2800	-16.61	-13	-3.61	-29.89	-24.34	0.82	10.70	H
	4192	-16.00	-13	-3.00	-34.2	-24.40	0.94	11.49	H
	6991	-44.03	-13	-31.03	-68.52	-51.68	1.29	11.09	H
	10487	-41.77	-13	-28.77	-71.89	-49.88	1.54	11.80	H
	13983	-38.65	-13	-25.65	-72.81	-47.38	1.83	12.71	H
	20974	-65.95	-13	-52.95	-72.89	-80.05	2.56	18.81	H
	24470	-62.97	-13	-49.97	-73.42	-78.03	2.29	19.50	H
	27966	-67.22	-13	-54.22	-78.59	-81.72	2.66	19.31	H
	2800	-27.15	-13	-14.15	-40.23	-34.88	0.82	10.70	V
	4192	-23.41	-13	-10.41	-42.36	-31.81	0.94	11.49	V
	6991	-40.15	-13	-27.15	-66.07	-47.80	1.29	11.09	V
	10487	-43.10	-13	-30.10	-71.87	-51.21	1.54	11.80	V
	13983	-38.48	-13	-25.48	-72.68	-47.21	1.83	12.71	V
	20974	-70.24	-13	-57.24	-77.55	-84.34	2.56	18.81	V
	24470	-63.68	-13	-50.68	-74.7	-78.74	2.29	19.50	V
	27966	-66.79	-13	-53.79	-78.56	-81.29	2.66	19.31	V



5G-FR1 SA n77 MIMO (PC1.5) / 10MHz / 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)
Highest	2824	-16.20	-13	-3.20	-29.66	-23.87	0.81	10.63	H
	4260	-20.44	-13	-7.44	-38.97	-28.80	0.96	11.47	H
	7081	-45.28	-13	-32.28	-69.72	-52.61	1.29	10.78	H
	10622	-41.52	-13	-28.52	-71.91	-49.71	1.56	11.90	H
	14163	-38.41	-13	-25.41	-72.56	-47.16	1.86	12.77	H
	21244	-68.90	-13	-55.90	-76.34	-83.27	2.33	18.85	H
	24785	-65.91	-13	-52.91	-76.54	-80.68	2.24	19.16	H
	28326	-66.49	-13	-53.49	-78.13	-80.69	2.82	19.17	H
	2824	-29.25	-13	-16.25	-42.47	-36.92	0.81	10.63	V
	4260	-25.47	-13	-12.47	-44.69	-33.83	0.96	11.47	V
	7081	-41.29	-13	-28.29	-67.18	-48.62	1.29	10.78	V
	10622	-43.25	-13	-30.25	-72.39	-51.44	1.56	11.90	V
	14163	-38.32	-13	-25.32	-72.63	-47.07	1.86	12.77	V
	21244	-70.52	-13	-57.52	-78.39	-84.89	2.33	18.85	V
	24785	-65.41	-13	-52.41	-76.51	-80.18	2.24	19.16	V
	28326	-65.37	-13	-52.37	-77.43	-79.57	2.82	19.17	V

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