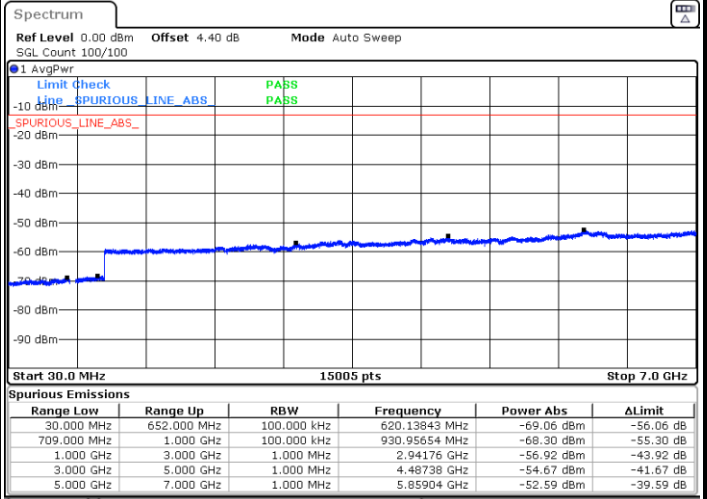
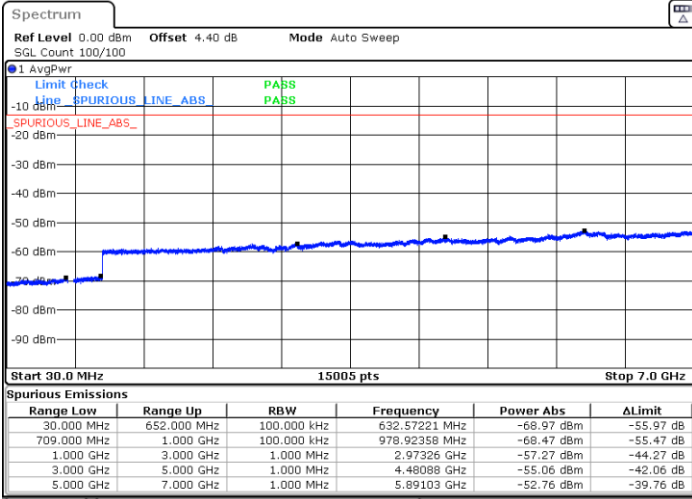




FR1 n71 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

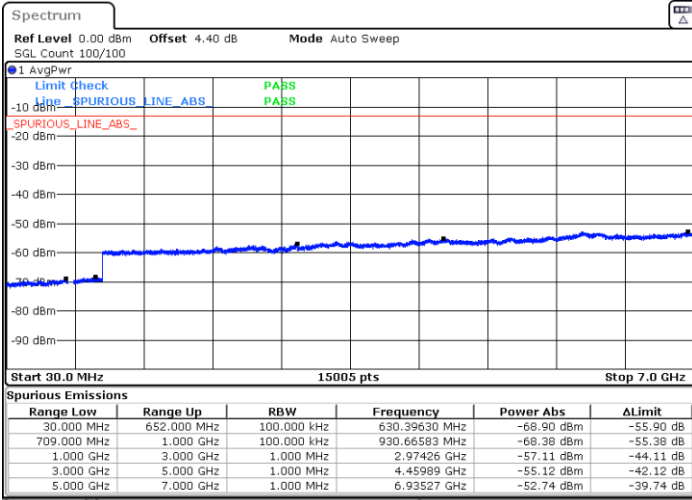
Middle Channel / 1RB1



Date: 1.APR.2021 18:42:09

Date: 1.APR.2021 18:42:51

Highest Channel / 1RB1



Date: 1.APR.2021 18:43:55



Frequency Stability

Test Conditions		FR1 n71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.30 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

EN-DC_2A_n5A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-49.96	-13	-36.96	-56.93	1.58	10.70	H
	2482	-42.04	-13	-29.04	-50.29	2.10	12.50	H
	3312	-59.61	-13	-46.61	-68.50	2.86	13.90	H
	1654	-45.84	-13	-32.84	-52.81	1.58	10.70	V
	2482	-42.20	-13	-29.20	-50.45	2.10	12.50	V
	3312	-59.95	-13	-46.95	-68.84	2.86	13.90	V

EN-DC_30A_n5A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-64.00	-13	-51.00	-70.97	1.58	10.70	H
	2482	-60.78	-13	-47.78	-69.03	2.10	12.50	H
	3306	-58.61	-13	-45.61	-67.50	2.86	13.90	H
	1654	-63.86	-13	-50.86	-70.83	1.58	10.70	V
	2482	-57.34	-13	-44.34	-65.59	2.10	12.50	V
	3306	-57.46	-13	-44.46	-66.35	2.86	13.90	V

EN-DC_66A_n5A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-64.00	-13	-51.00	-70.97	1.58	10.70	H
	2482	-60.78	-13	-47.78	-69.03	2.10	12.50	H
	3306	-58.61	-13	-45.61	-67.50	2.86	13.90	H
	1654	-63.86	-13	-50.86	-70.83	1.58	10.70	V
	2482	-57.34	-13	-44.34	-65.59	2.10	12.50	V
	3306	-57.46	-13	-44.46	-66.35	2.86	13.90	V



5G NR n5 / NR 20MHz / PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-60.72	-13	-47.72	-67.69	1.58	10.70	H
	2482	-60.49	-13	-47.49	-68.74	2.10	12.50	H
	3312	-59.08	-13	-46.08	-67.97	2.86	13.90	H
	1654	-59.75	-13	-46.75	-66.72	1.58	10.70	V
	2482	-58.06	-13	-45.06	-66.31	2.10	12.50	V
	3312	-59.64	-13	-46.64	-68.53	2.86	13.90	V

EN-DC_5A_n2A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-57.19	-13	-44.19	-69.45	2.64	14.90	H
	5613	-54.84	-13	-41.84	-66.70	2.94	14.80	H
	7488	-52.74	-13	-39.74	-62.51	3.39	13.16	H
	3741	-57.09	-13	-44.09	-69.35	2.64	14.90	V
	5613	-55.54	-13	-42.54	-67.40	2.94	14.80	V
	7488	-52.87	-13	-39.87	-62.64	3.39	13.16	V

EN-DC_12A_n2A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-56.56	-13	-43.56	-68.82	2.64	14.90	H
	5622	-54.70	-13	-41.70	-66.56	2.94	14.80	H
	7500	-52.59	-13	-39.59	-62.36	3.39	13.16	H
	3747	-56.76	-13	-43.76	-69.02	2.64	14.90	V
	5622	-54.89	-13	-41.89	-66.75	2.94	14.80	V
	7500	-52.53	-13	-39.53	-62.30	3.39	13.16	V

EN-DC_30A_n2A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.27	-13	-43.27	-68.53	2.64	14.90	H
	5613	-54.66	-13	-41.66	-66.52	2.94	14.80	H
	7488	-53.01	-13	-40.01	-62.78	3.39	13.16	H
	3741	-56.21	-13	-43.21	-68.47	2.64	14.90	V
	5613	-54.74	-13	-41.74	-66.60	2.94	14.80	V
	7488	-53.16	-13	-40.16	-62.93	3.39	13.16	V



EN-DC_66A_n2A / LTE 10MHz + NR 20MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-55.51	-13	-42.51	-67.77	2.64	14.90	H
	5613	-44.19	-13	-31.19	-56.05	2.94	14.80	H
	7488	-52.38	-13	-39.38	-62.15	3.39	13.16	H
	3741	-56.00	-13	-43.00	-68.26	2.64	14.90	V
	5613	-49.64	-13	-36.64	-61.50	2.94	14.80	V
	7488	-52.53	-13	-39.53	-62.30	3.39	13.16	V

5G NR n2 / NR 20MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.53	-13	-43.53	-68.79	2.64	14.90	H
	5619	-48.48	-13	-35.48	-60.34	2.94	14.80	H
	7488	-51.91	-13	-38.91	-61.68	3.39	13.16	H
	3741	-56.01	-13	-43.01	-68.27	2.64	14.90	V
	5619	-48.14	-13	-35.14	-60.00	2.94	14.80	V
	7488	-52.27	-13	-39.27	-62.04	3.39	13.16	V

EN-DC_12A_n25A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-56.56	-13	-43.56	-68.82	2.64	14.90	H
	5622	-54.70	-13	-41.70	-66.56	2.94	14.80	H
	7500	-52.59	-13	-39.59	-62.36	3.39	13.16	H
	3747	-56.76	-13	-43.76	-69.02	2.64	14.90	V
	5622	-54.89	-13	-41.89	-66.75	2.94	14.80	V
	7500	-52.53	-13	-39.53	-62.30	3.39	13.16	V

EN-DC_66A_n25A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-56.88	-13	-43.88	-69.14	2.64	14.90	H
	5622	-55.35	-13	-42.35	-67.21	2.94	14.80	H
	7500	-52.47	-13	-39.47	-62.24	3.39	13.16	H
	3747	-56.95	-13	-43.95	-69.21	2.64	14.90	V
	5622	-55.82	-13	-42.82	-67.68	2.94	14.80	V
	7500	-52.87	-13	-39.87	-62.64	3.39	13.16	V



5G NR n25 / NR 20MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-55.51	-13	-42.51	-67.77	2.64	14.90	H
	5619	-51.34	-13	-38.34	-63.20	2.94	14.80	H
	7500	-52.35	-13	-39.35	-62.12	3.39	13.16	H
	3747	-56.00	-13	-43.00	-68.26	2.64	14.90	V
	5619	-49.31	-13	-36.31	-61.17	2.94	14.80	V
	7500	-52.29	-13	-39.29	-62.06	3.39	13.16	V

EN-DC_2A_n66A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.19	-13	-42.19	-65.93	2.604	13.34	H
	5208	-49.53	-13	-36.53	-60.04	3.011	13.52	H
	6948	-54.43	-13	-41.43	-64.63	3.271	13.47	H
	3471	-56.19	-13	-43.19	-66.93	2.604	13.34	V
	5208	-51.02	-13	-38.02	-61.53	3.011	13.52	V
	6948	-53.32	-13	-40.32	-63.52	3.271	13.47	V

EN-DC_5A_n66A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-57.03	-13	-44.03	-67.77	2.604	13.34	H
	5208	-53.19	-13	-40.19	-63.70	3.011	13.52	H
	6948	-54.03	-13	-41.03	-64.23	3.271	13.47	H
	3471	-55.76	-13	-42.76	-66.50	2.604	13.34	V
	5208	-50.99	-13	-37.99	-61.50	3.011	13.52	V
	6948	-54.09	-13	-41.09	-64.29	3.271	13.47	V

EN-DC_12A_n66A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.79	-13	-42.79	-66.53	2.604	13.34	H
	5208	-44.84	-13	-31.84	-55.35	3.011	13.52	H
	6948	-54.67	-13	-41.67	-64.87	3.271	13.47	H
	3471	-56.22	-13	-43.22	-66.96	2.604	13.34	V
	5208	-49.16	-13	-36.16	-59.67	3.011	13.52	V
	6948	-54.62	-13	-41.62	-64.82	3.271	13.47	V



5G NR n66 / NR 20MHz / PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.36	-13	-42.36	-66.10	2.604	13.34	H
	5208	-53.47	-13	-40.47	-63.98	3.011	13.52	H
	6948	-54.83	-13	-41.83	-65.03	3.271	13.47	H
	3471	-56.05	-13	-43.05	-66.79	2.604	13.34	V
	5208	-54.66	-13	-41.66	-65.17	3.011	13.52	V
	6948	-54.31	-13	-41.31	-64.51	3.271	13.47	V

EN-DC_2A_n71A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1342	-48.09	-13	-35.09	-49.84	1.02	4.92	H
	2014	-37.99	-13	-24.99	-39.96	1.27	5.39	H
	2686	-59.48	-13	-46.48	-62.41	1.49	6.57	H
	3360	-60.10	-13	-47.10	-63.50	1.73	7.28	H
	1342	-67.05	-13	-54.05	-68.80	1.02	4.92	V
	2014	-61.76	-13	-48.76	-63.73	1.27	5.39	V
	2690	-59.21	-13	-46.21	-62.14	1.49	6.57	V
	3360	-60.48	-13	-47.48	-63.88	1.73	7.28	V

EN-DC_2A_7A_n71A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-67.74	-13	-54.74	-69.49	1.02	4.92	H
	2014	-61.39	-13	-48.39	-63.36	1.27	5.39	H
	2686	-59.38	-13	-46.38	-62.31	1.49	6.57	H
	3360	-59.70	-13	-46.70	-63.10	1.73	7.28	H
	1344	-67.07	-13	-54.07	-68.82	1.02	4.92	V
	2014	-61.48	-13	-48.48	-63.45	1.27	5.39	V
	2686	-59.12	-13	-46.12	-62.05	1.49	6.57	V
	3360	-59.82	-13	-46.82	-63.22	1.73	7.28	V

Note: 2A in EN-DC_2A-7A_n71A supports downlink only



EN-DC_66A_n71A / LTE 10MHz + NR 20MHz / QPSK + PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1374	-68.26	-13	-55.26	-70.01	1.02	4.92	H
	2014	-62.06	-13	-49.06	-64.03	1.27	5.39	H
	2686	-59.73	-13	-46.73	-62.66	1.49	6.57	H
	3354	-58.38	-13	-45.38	-61.78	1.73	7.28	H
	1374	-67.35	-13	-54.35	-69.10	1.02	4.92	V
	2014	-59.45	-13	-46.45	-61.42	1.27	5.39	V
	2686	-58.62	-13	-45.62	-61.55	1.49	6.57	V
	3354	-57.99	-13	-44.99	-61.39	1.73	7.28	V

5G NR n71 / NR 20MHz / PI/2 BPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-68.28	-13	-55.28	-70.03	1.02	4.92	H
	2014	-62.66	-13	-49.66	-64.63	1.27	5.39	H
	2686	-60.18	-13	-47.18	-63.11	1.49	6.57	H
	3360	-60.61	-13	-47.61	-64.01	1.73	7.28	H
	1344	-67.49	-13	-54.49	-69.24	1.02	4.92	V
	2014	-61.78	-13	-48.78	-63.75	1.27	5.39	V