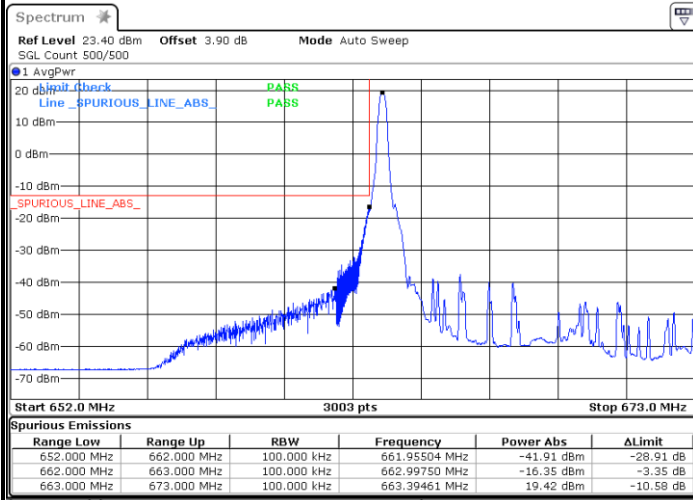




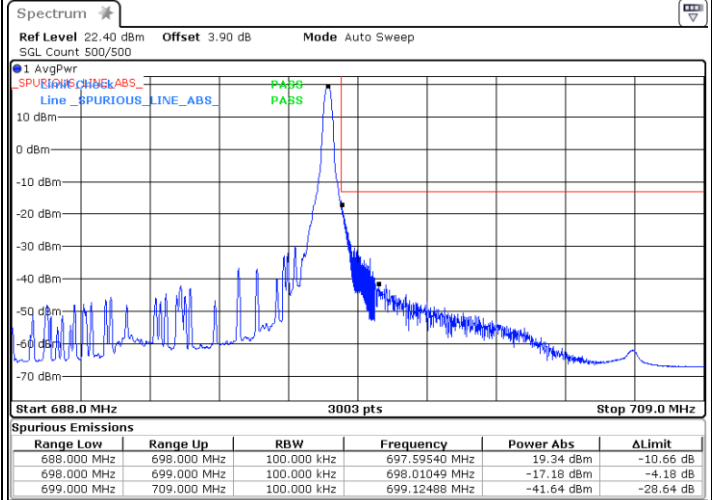
NR N71 / 10MHz / QPSK

Lowest Band Edge / 1RB0



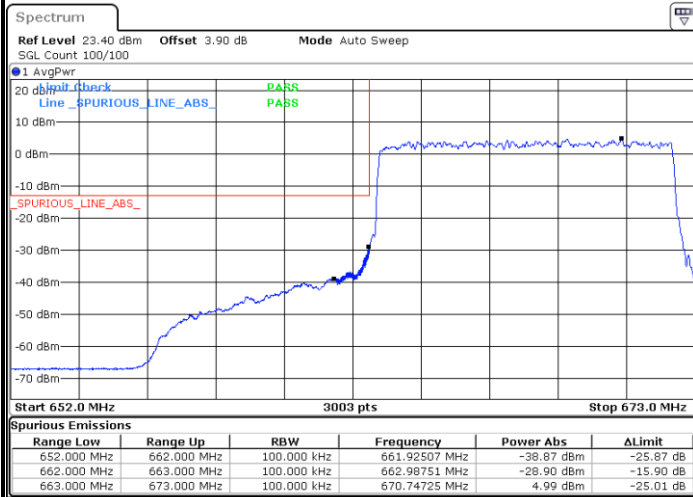
Date: 15 JUN 2020 09:20:13

Highest Band Edge / 1RB51



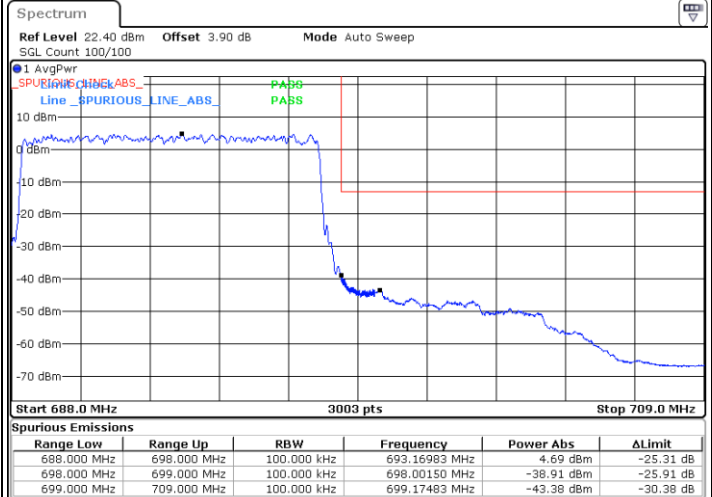
Date: 15 JUN 2020 09:29:13

Lowest Band Edge / 50RB0



Date: 8 JUN 2020 15:06:18

Highest Band Edge / 50RB0



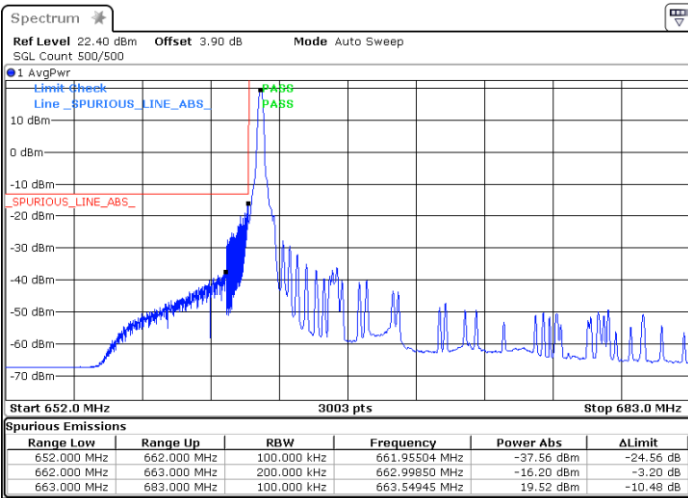
Date: 8 JUN 2020 14:32:46



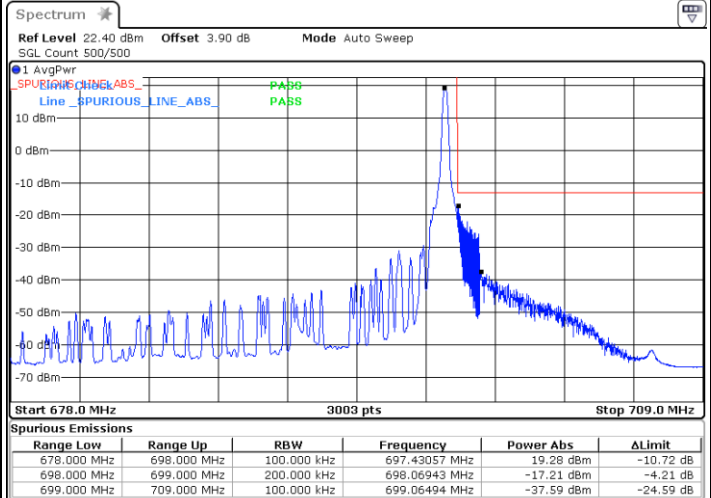
NR N71 / 20MHz / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB105



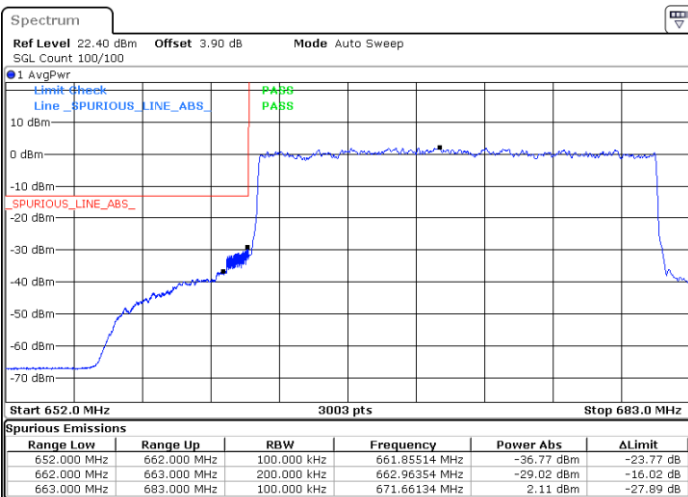
Date: 15 JUN 2020 09:36:32



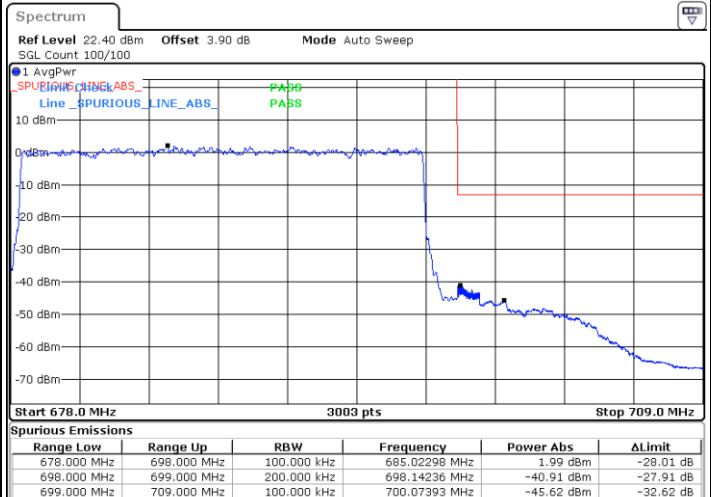
Date: 8 JUN 2020 14:05:47

Lowest Band Edge / 100RB0

Highest Band Edge / 100RB0



Date: 8 JUN 2020 13:28:18



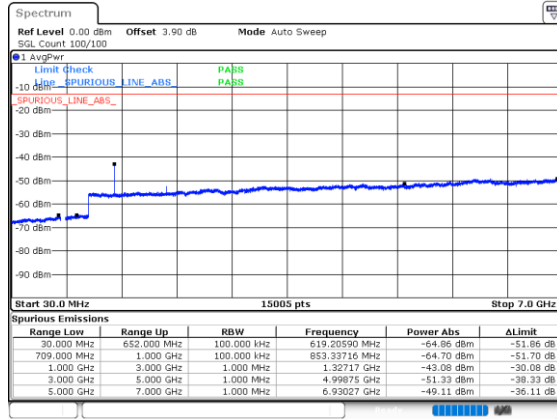
Date: 8 JUN 2020 13:54:15



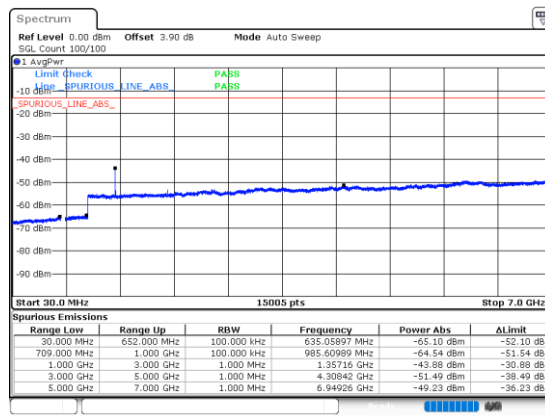
Conducted Spurious Emission

NR N71 / 5MHz

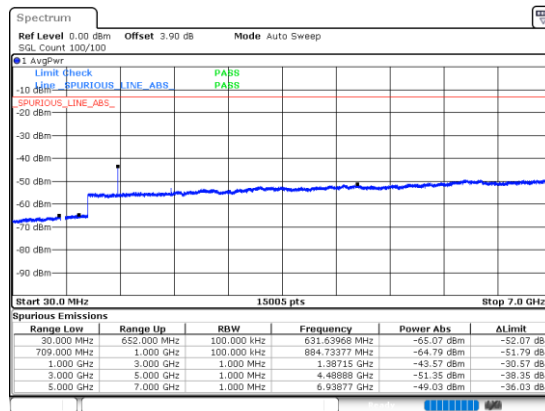
Lowest Channel / QPSK



Middle Channel / QPSK



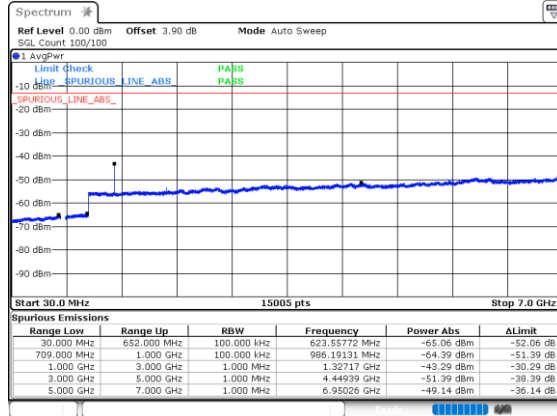
Highest Channel / QPSK



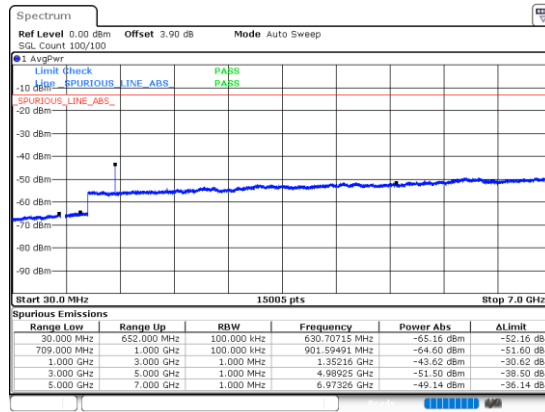


NR N71 / 10MHz

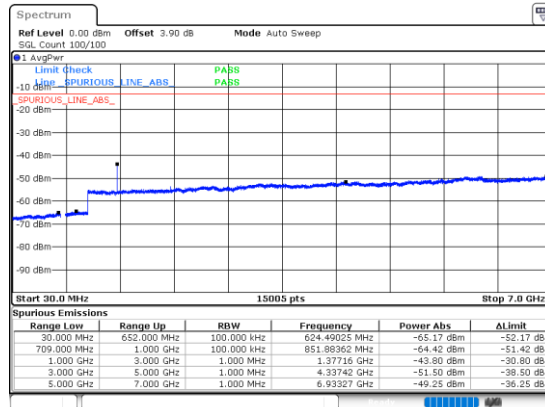
Lowest Channel / QPSK



Middle Channel / QPSK



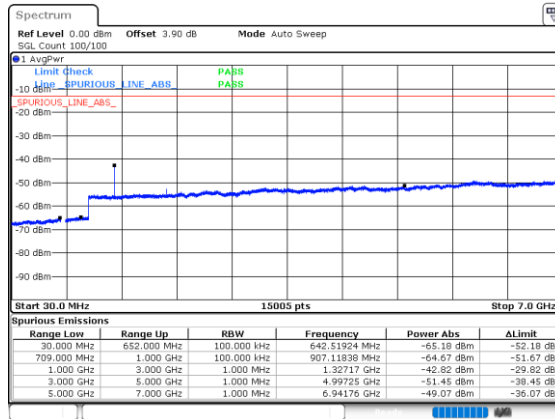
Highest Channel / QPSK



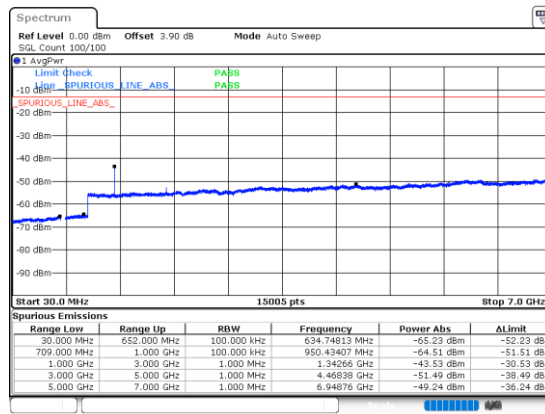


NR N71 / 20MHz

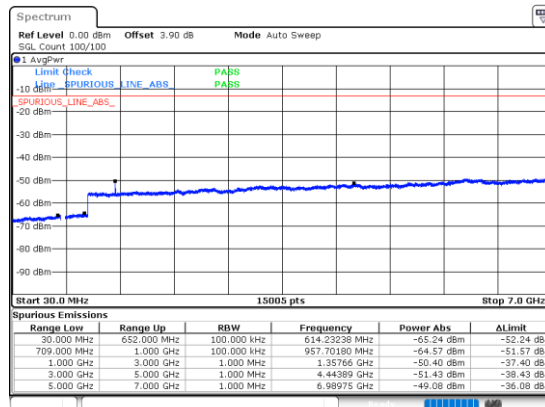
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		N71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	NR 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0011	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

SA_n41 / NR 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Low	4994.04	-58.78	-25	-33.78	-80.27	-64.34	7.12	12.68	H
	7491.06	-53.81	-25	-28.81	-79.33	-57.14	8.26	11.59	H
	9988.08	-51.39	-25	-26.39	-80.41	-52.92	10.45	11.98	H
	4994.04	-59.29	-25	-34.29	-80.57	-64.85	7.12	12.68	V
	7491.06	-54.53	-25	-29.53	-79.44	-57.86	8.26	11.59	V
	9988.08	-50.11	-25	-25.11	-80.52	-51.64	10.45	11.98	V
Middle	5167.98	-58.64	-25	-33.64	-80.41	-64.20	7.14	12.70	H
	7751.97	-55.08	-25	-30.08	-80.18	-58.38	8.30	11.60	H
	10335.96	-50.05	-25	-25.05	-80.25	-51.57	10.48	12.00	H
	5167.98	-59.57	-25	-34.57	-80.41	-65.13	7.14	12.70	V
	7751.97	-55.35	-25	-30.35	-79.91	-58.65	8.30	11.60	V
	10335.96	-49.93	-25	-24.93	-80.7	-51.45	10.48	12.00	V
High	5341.98	-59.76	-25	-34.76	-80.91	-65.32	7.16	12.72	H
	8012.97	-54.48	-25	-29.48	-79.27	-57.78	8.33	11.63	H
	10683.96	-49.54	-25	-24.54	-80.36	-51.14	10.50	12.10	H
	5341.98	-60.82	-25	-35.82	-80.9	-66.38	7.16	12.72	V
	8012.97	-53.92	-25	-28.92	-79.04	-57.22	8.33	11.63	V
	10683.96	-49.36	-25	-24.36	-80.17	-50.96	10.50	12.10	V

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



Bottom Antenna

SA_n71 / NR 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Low	1326.5	-61.04	-13	-48.04	-69.81	-64.27	3.98	9.36	H
	1989.75	-61.11	-13	-48.11	-74.21	-64.66	4.85	10.55	H
	2653	-61.71	-13	-48.71	-75.32	-66.64	5.50	12.58	H
	1326.5	-61.69	-13	-48.69	-70.25	-64.92	3.98	9.36	V
	1989.75	-61.27	-13	-48.27	-73.89	-64.82	4.85	10.55	V
	2653	-62.13	-13	-49.13	-75.36	-67.06	5.50	12.58	V
Middle	1356.5	-63.54	-13	-50.54	-72.69	-66.79	4.00	9.40	H
	2034.75	-60.81	-13	-47.81	-74.33	-64.38	4.88	10.60	H
	2713	-61.26	-13	-48.26	-75.09	-66.19	5.52	12.60	H
	1356.5	-64.12	-13	-51.12	-73.01	-67.37	4.00	9.40	V
	2034.75	-61.85	-13	-48.85	-74.95	-65.42	4.88	10.60	V
	2713	-61.48	-13	-48.48	-74.95	-66.41	5.52	12.60	V
High	1386.5	-63.42	-13	-50.42	-72.95	-66.59	4.10	9.42	H
	2079.75	-61.09	-13	-48.09	-75.00	-64.67	4.90	10.63	H
	2773	-61.27	-13	-48.27	-75.28	-66.19	5.55	12.62	H
	1386.5	-63.72	-13	-50.72	-72.94	-66.89	4.10	9.42	V
	2079.75	-60.74	-13	-47.74	-74.30	-64.32	4.90	10.63	V
	2773	-61.56	-13	-48.56	-75.23	-66.48	5.55	12.62	V

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



Top Antenna

SA_n71 / NR 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Low	1326.5	-64.04	-13	-51.04	-72.81	-67.27	3.98	9.36	H
	1989.75	-61.53	-13	-48.53	-74.63	-65.08	4.85	10.55	H
	2653	-61.09	-13	-48.09	-74.70	-66.02	5.50	12.58	H
	1326.5	-64.32	-13	-51.32	-72.88	-67.55	3.98	9.36	V
	1989.75	-61.78	-13	-48.78	-74.40	-65.33	4.85	10.55	V
	2653	-61.85	-13	-48.85	-75.08	-66.78	5.50	12.58	V
Middle	1356.5	-63.48	-13	-50.48	-72.63	-66.73	4.00	9.40	H
	2034.75	-60.98	-13	-47.98	-74.50	-64.55	4.88	10.60	H
	2713	-61.42	-13	-48.42	-75.25	-66.35	5.52	12.60	H
	1356.5	-63.79	-13	-50.79	-72.68	-67.04	4.00	9.40	V
	2034.75	-61.45	-13	-48.45	-74.55	-65.02	4.88	10.60	V
	2713	-61.45	-13	-48.45	-74.92	-66.38	5.52	12.60	V
High	1386.5	-63.64	-13	-50.64	-73.17	-66.81	4.10	9.42	H
	2079.75	-61.59	-13	-48.59	-75.50	-65.17	4.90	10.63	H
	2773	-60.25	-13	-47.25	-74.26	-65.17	5.55	12.62	H
	1386.5	-63.93	-13	-50.93	-73.15	-67.10	4.10	9.42	V
	2079.75	-61.59	-13	-48.59	-75.15	-65.17	4.90	10.63	V
	2773	-61.58	-13	-48.58	-75.25	-66.50	5.55	12.62	V

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