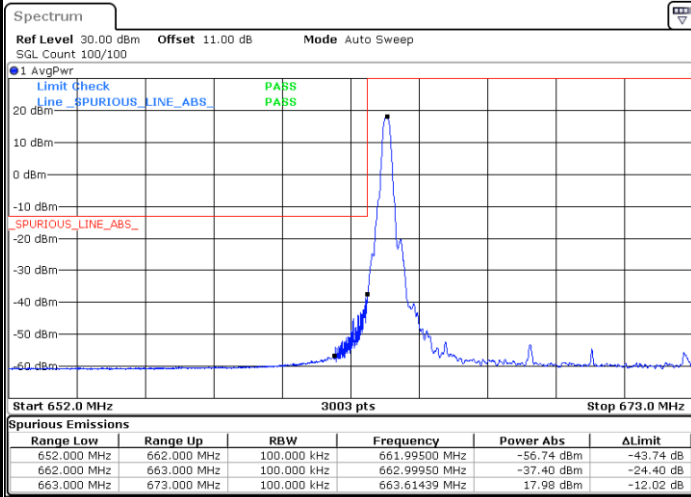




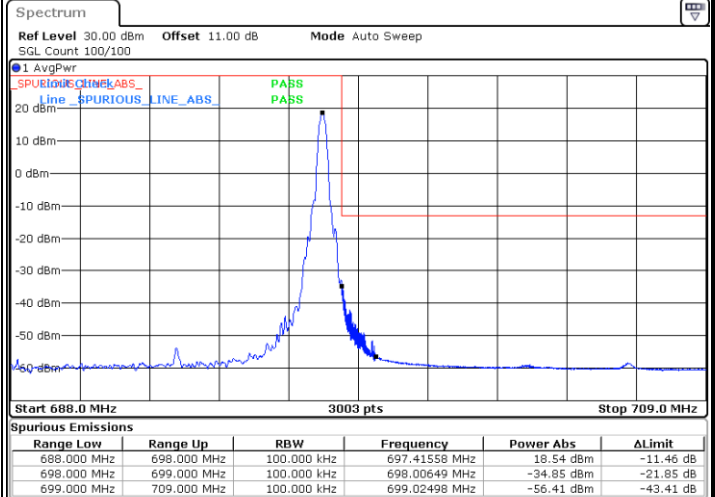
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



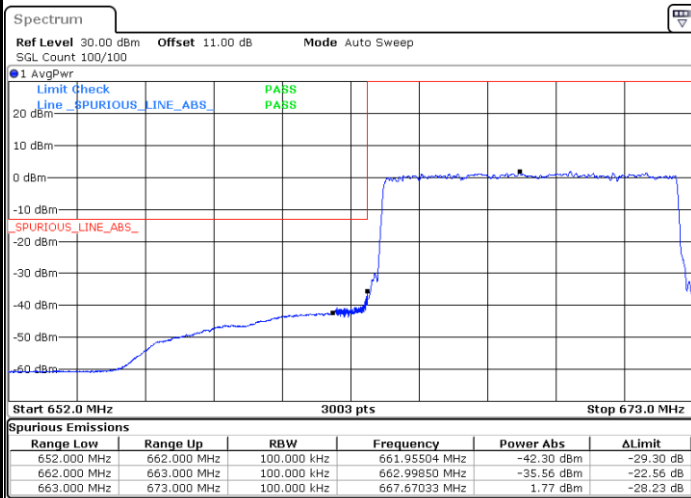
Date: 7.MAY.2021 09:51:25

Highest Band Edge / 1 RB



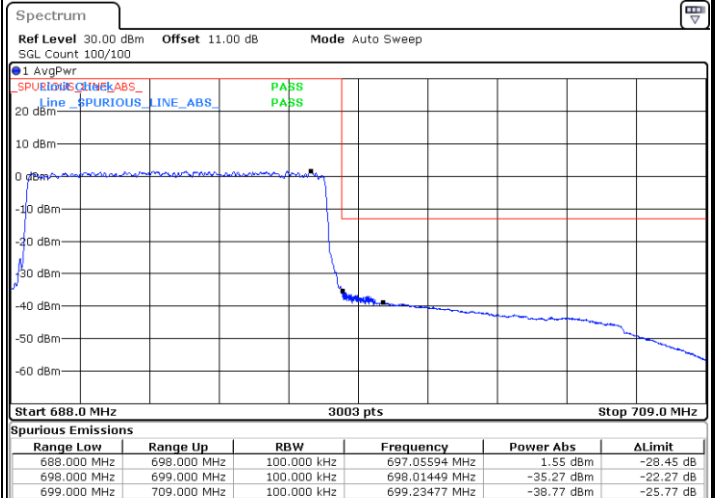
Date: 7.MAY.2021 09:53:38

Lowest Band Edge / Full RB



Date: 7.MAY.2021 09:52:10

Highest Band Edge / Full RB

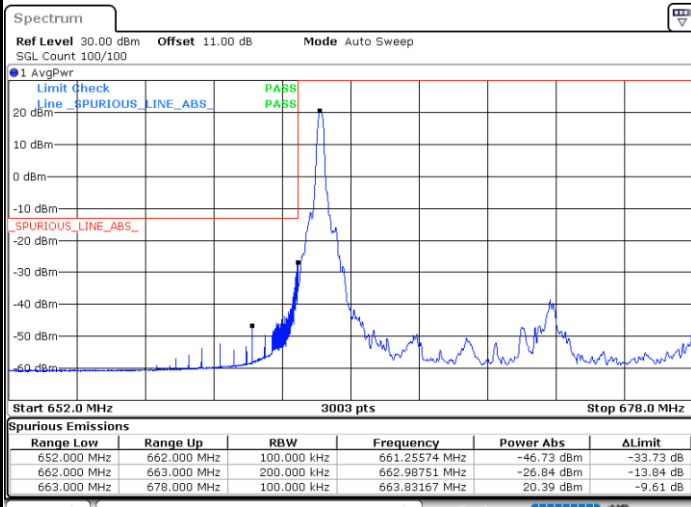


Date: 7.MAY.2021 09:54:23



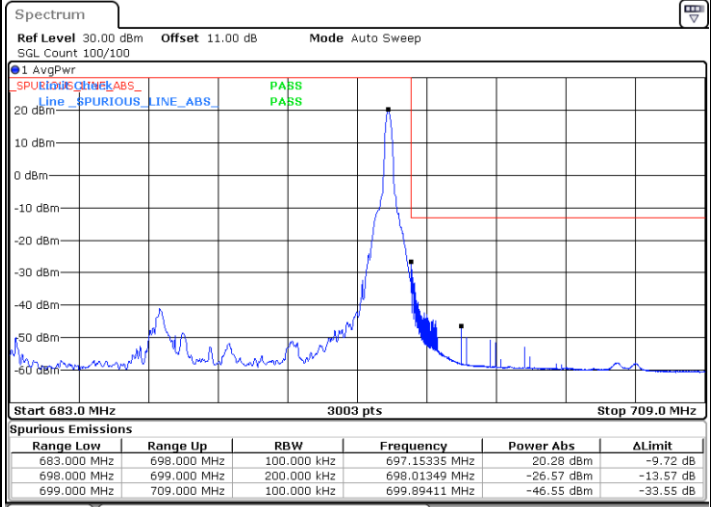
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



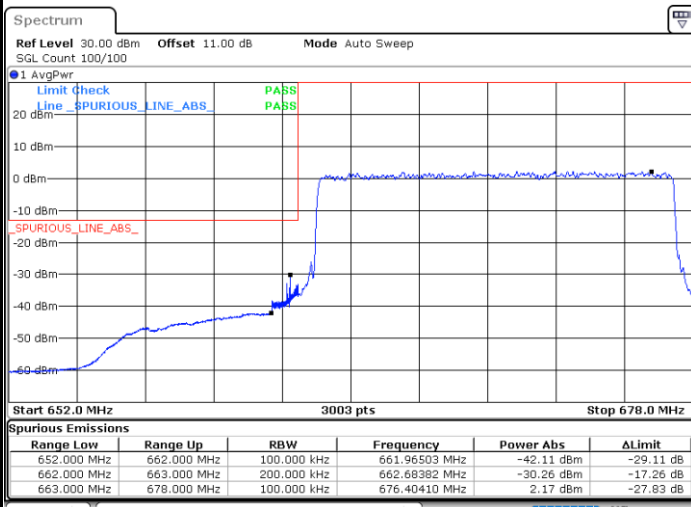
Date: 7.MAY.2021 09:55:08

Highest Band Edge / 1 RB



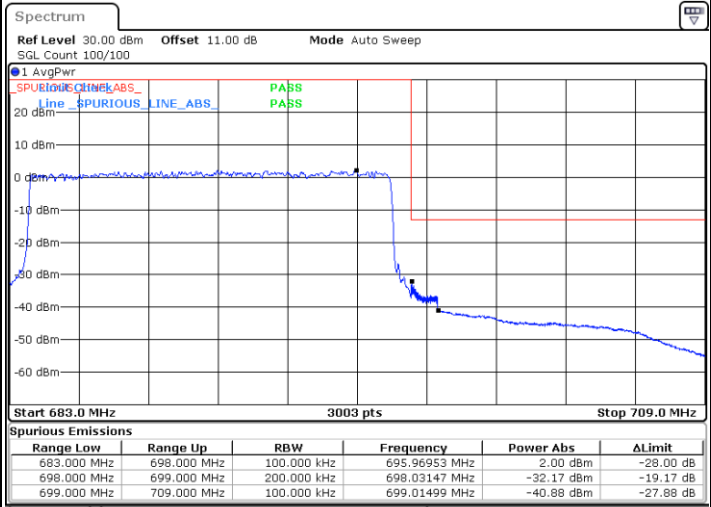
Date: 7.MAY.2021 10:00:43

Lowest Band Edge / Full RB



Date: 7.MAY.2021 09:56:37

Highest Band Edge / Full RB

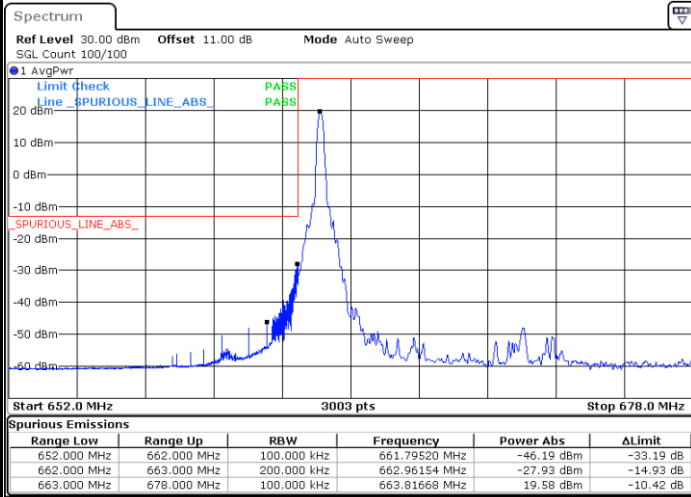


Date: 7.MAY.2021 10:02:13



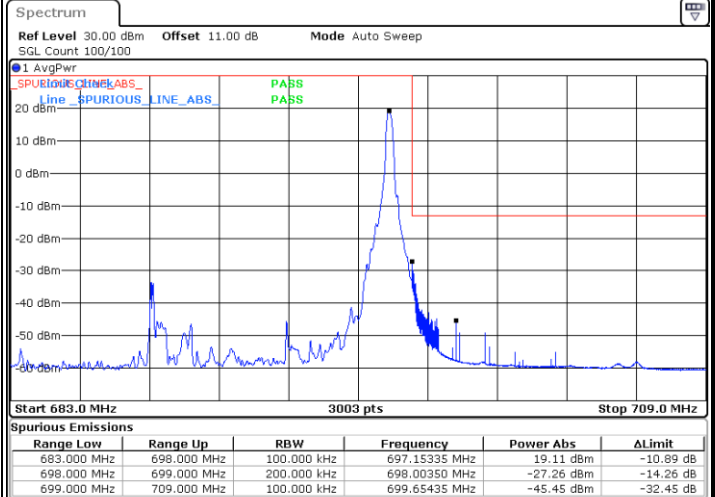
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



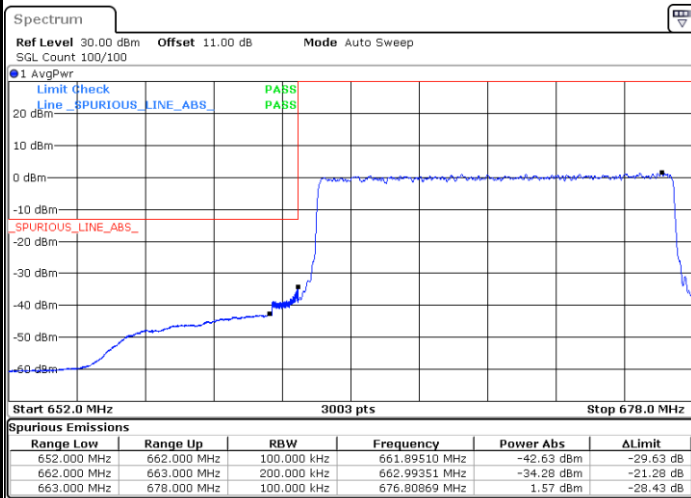
Date: 7.MAY.2021 09:55:52

Highest Band Edge / 1 RB



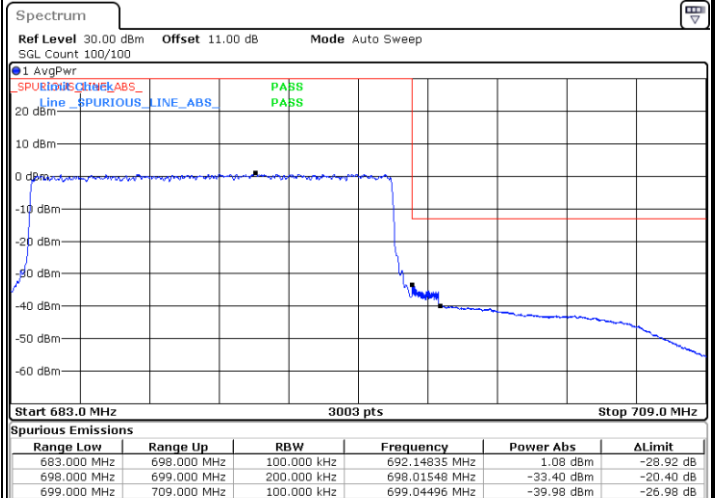
Date: 7.MAY.2021 10:01:28

Lowest Band Edge / Full RB



Date: 7.MAY.2021 09:57:21

Highest Band Edge / Full RB

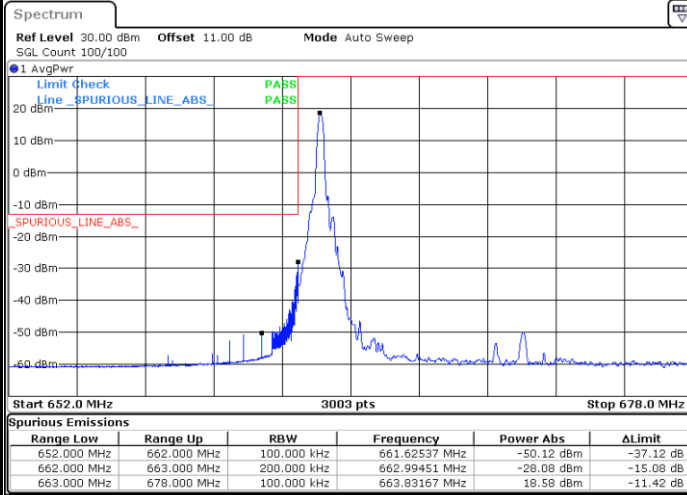


Date: 7.MAY.2021 10:02:58



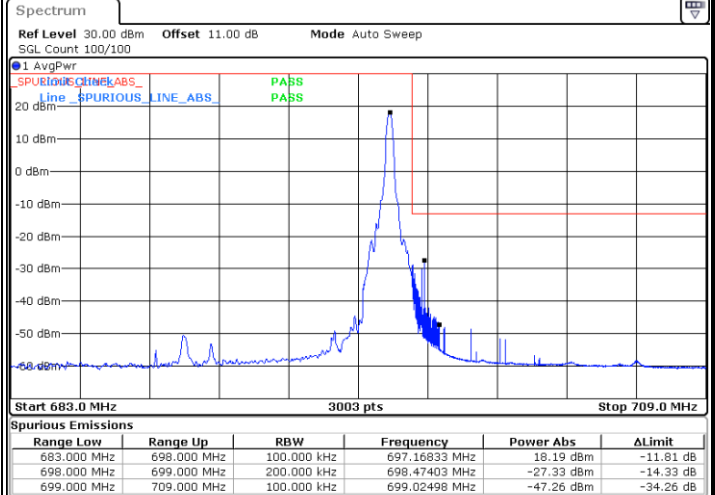
LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



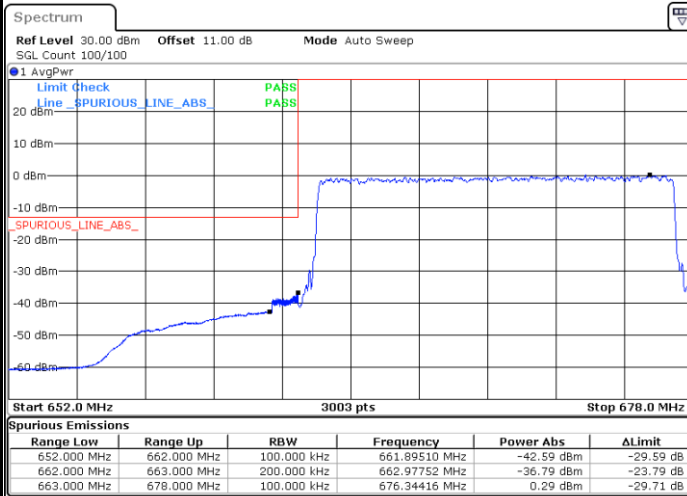
Date: 7.MAY.2021 10:04:18

Highest Band Edge / 1 RB



Date: 7.MAY.2021 10:06:31

Lowest Band Edge / Full RB



Date: 7.MAY.2021 10:05:02

Highest Band Edge / Full RB

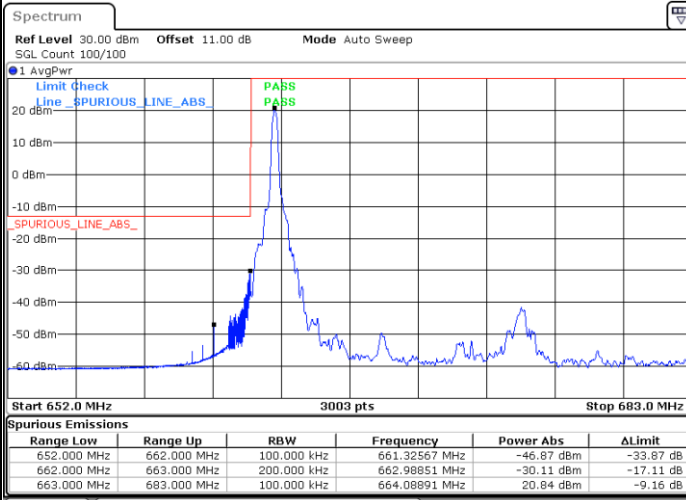


Date: 7.MAY.2021 10:07:16



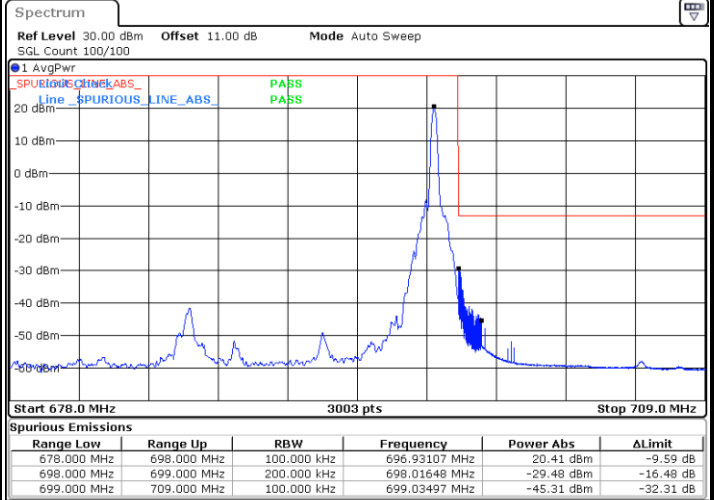
LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB



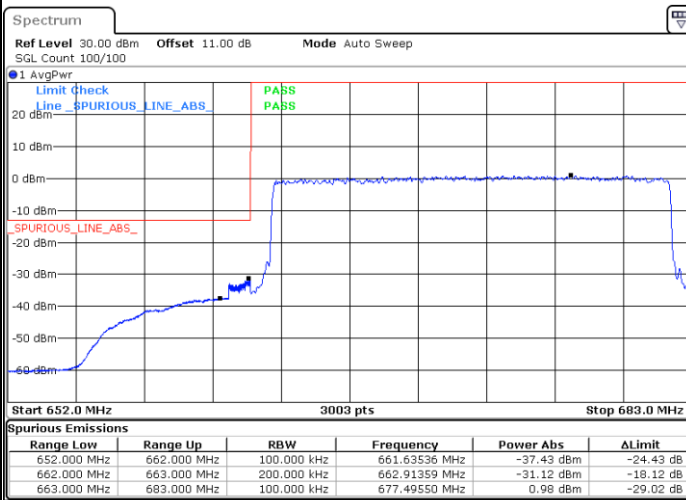
Date: 7.MAY.2021 10:08:02

Highest Band Edge / 1 RB



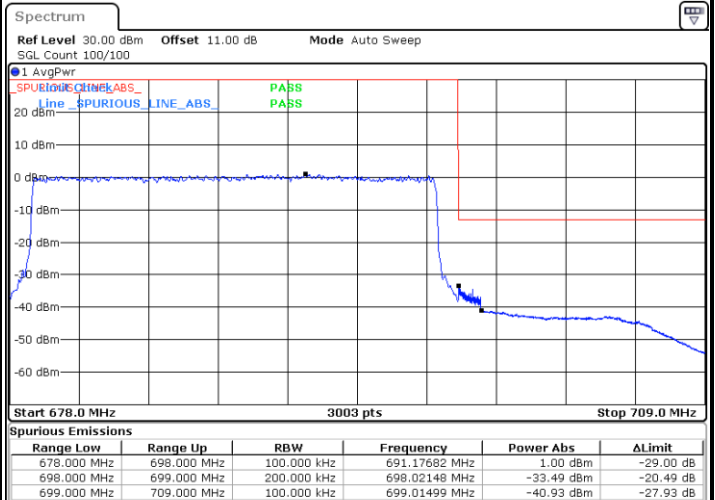
Date: 7.MAY.2021 10:13:37

Lowest Band Edge / Full RB



Date: 7.MAY.2021 10:09:31

Highest Band Edge / Full RB

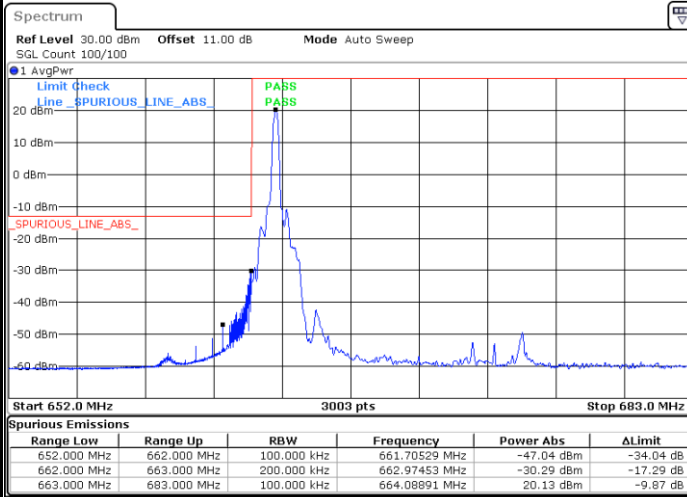


Date: 7.MAY.2021 10:15:52



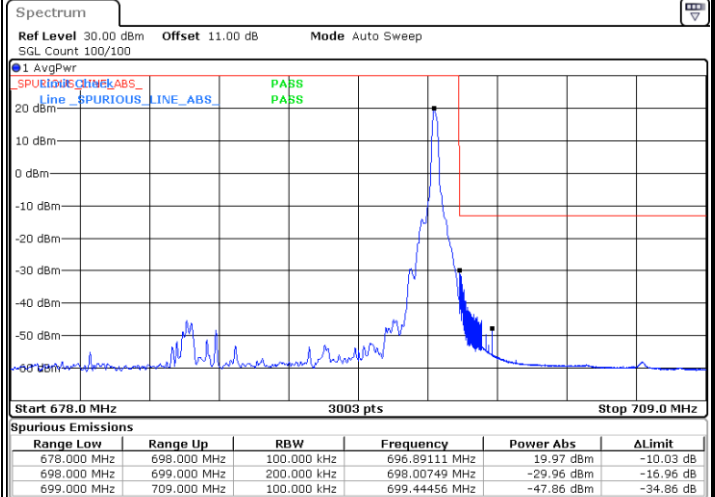
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



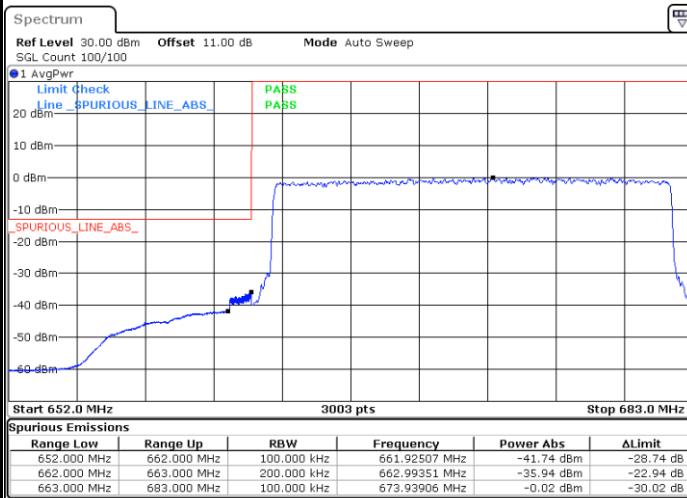
Date: 7.MAY.2021 10:08:46

Highest Band Edge / 1 RB



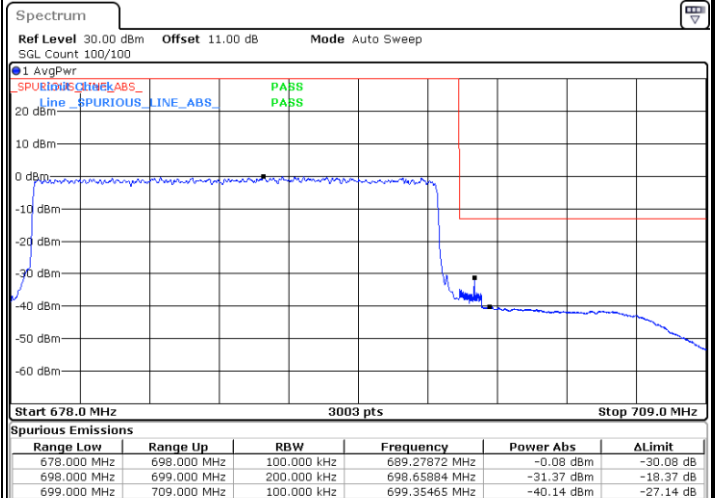
Date: 7.MAY.2021 10:14:22

Lowest Band Edge / Full RB



Date: 7.MAY.2021 10:10:15

Highest Band Edge / Full RB

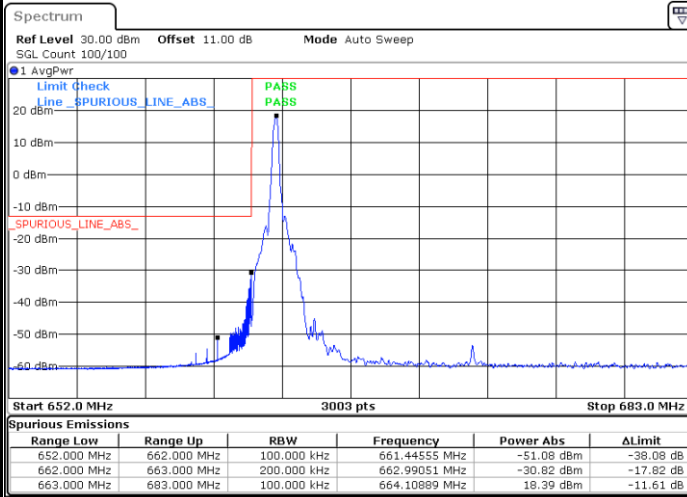


Date: 7.MAY.2021 10:15:07



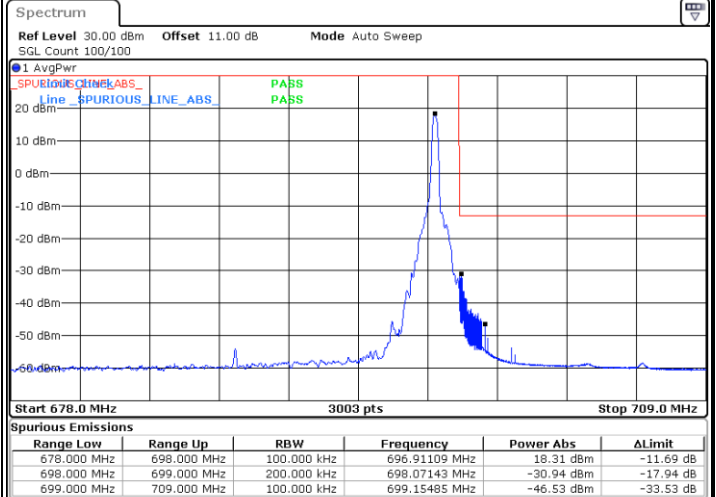
LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



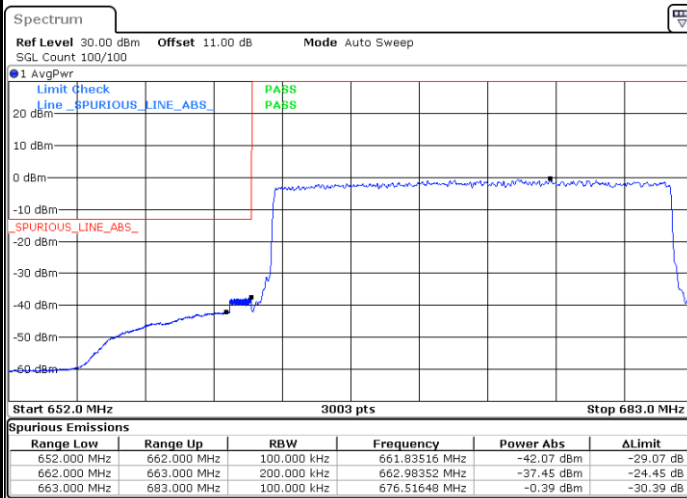
Date: 7.MAY.2021 10:17:12

Highest Band Edge / 1 RB



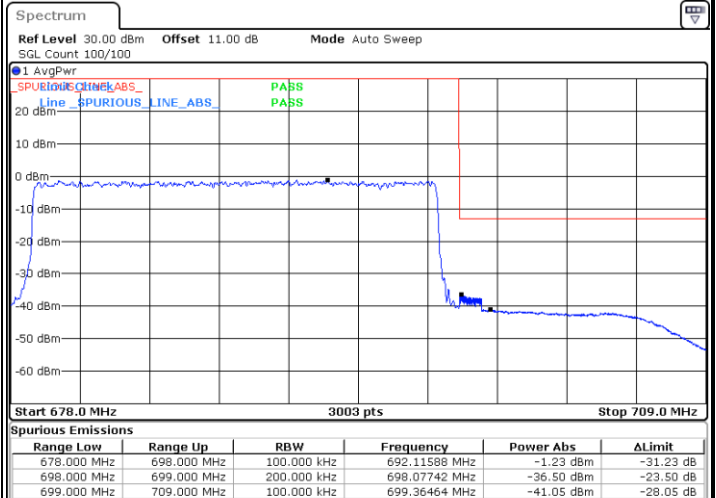
Date: 7.MAY.2021 10:19:25

Lowest Band Edge / Full RB



Date: 7.MAY.2021 10:17:57

Highest Band Edge / Full RB



Date: 7.MAY.2021 10:20:11

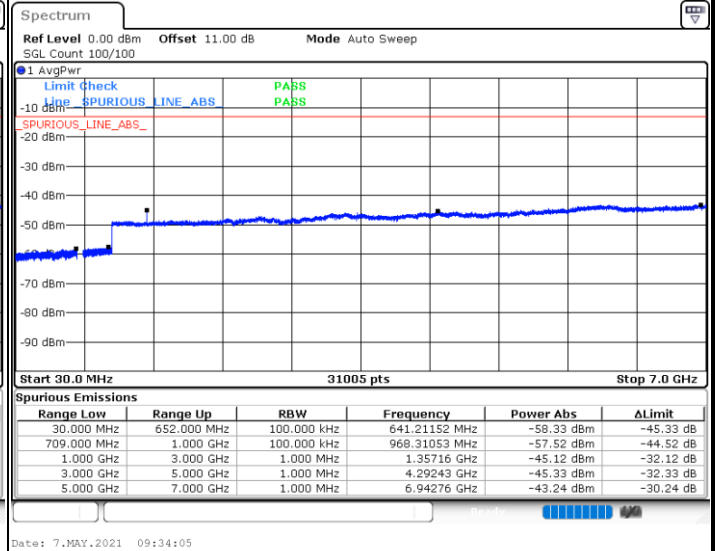
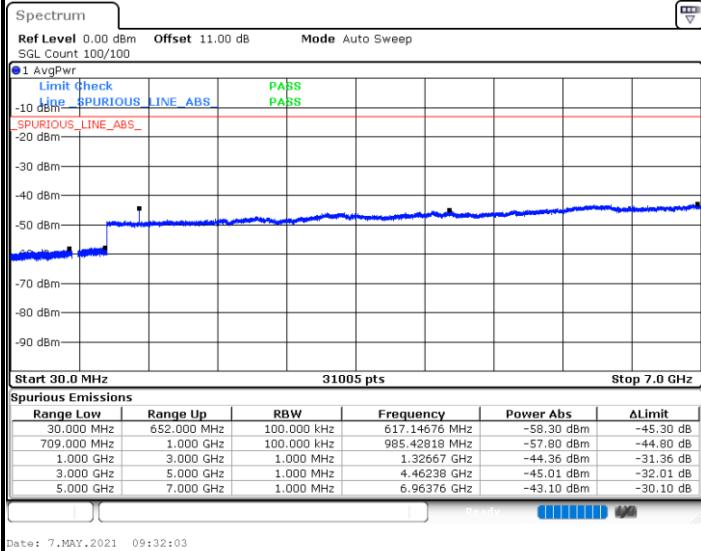


Conducted Spurious Emission

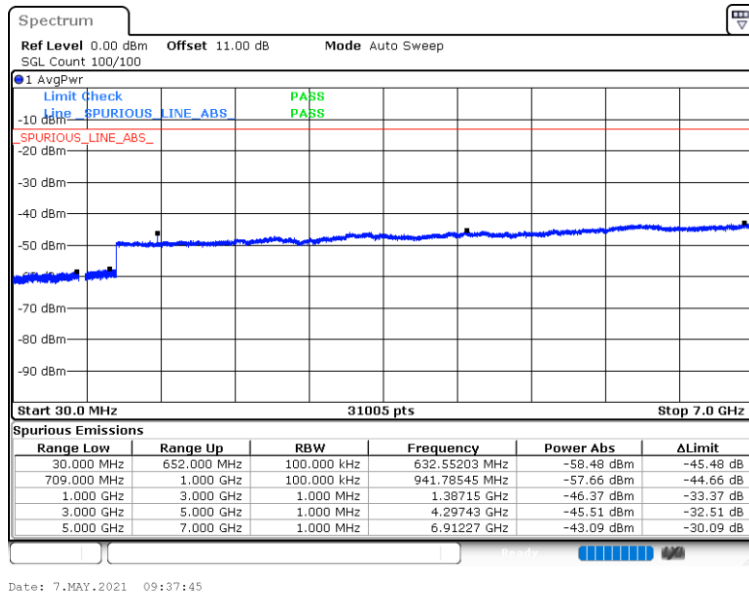
LTE Band 71 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

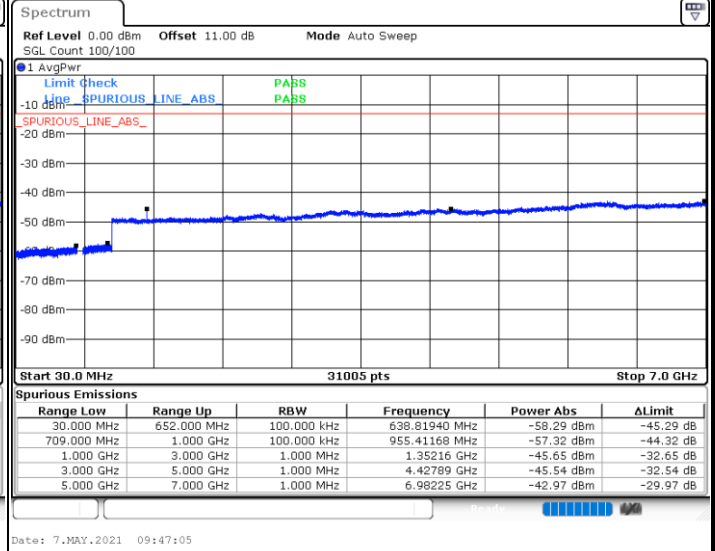
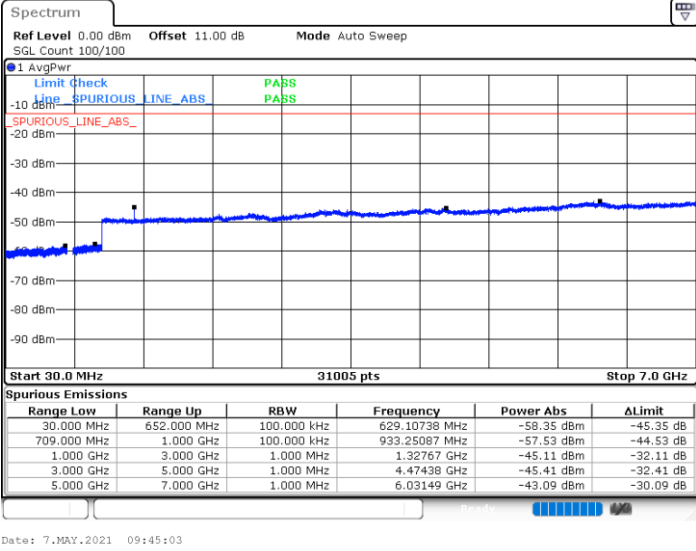




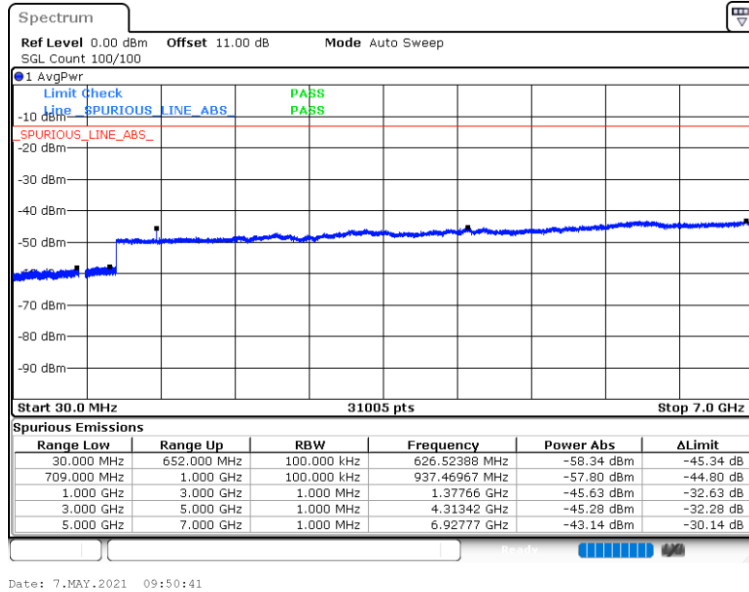
LTE Band 71 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

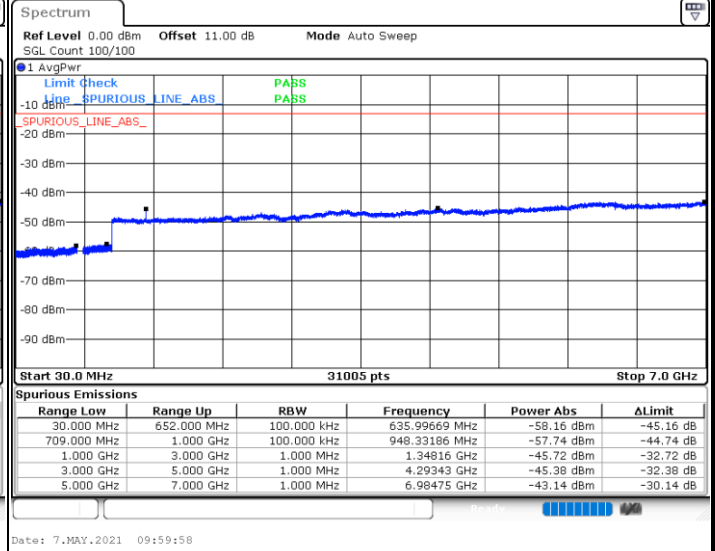
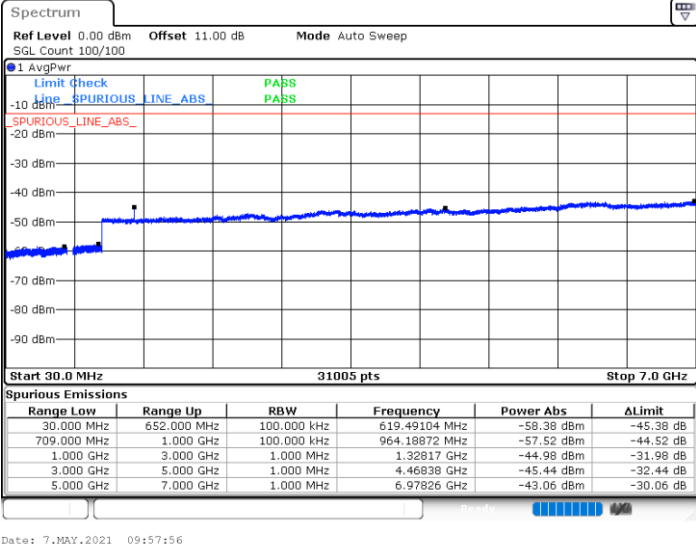




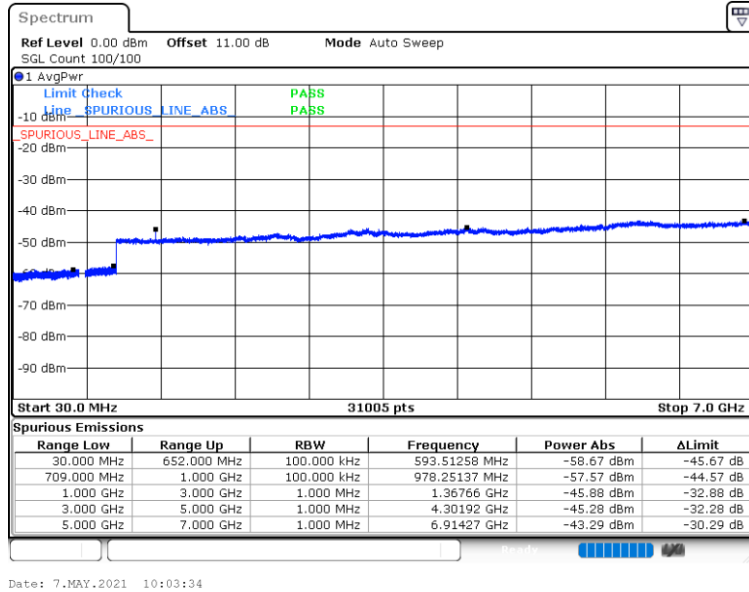
LTE Band 71 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

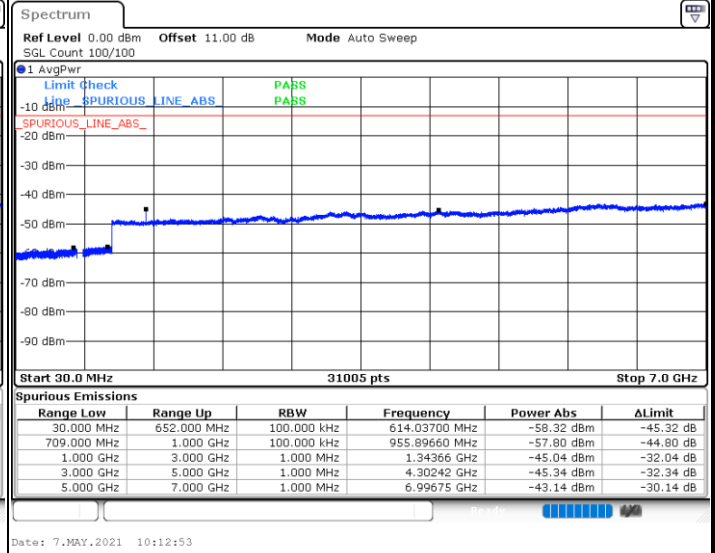
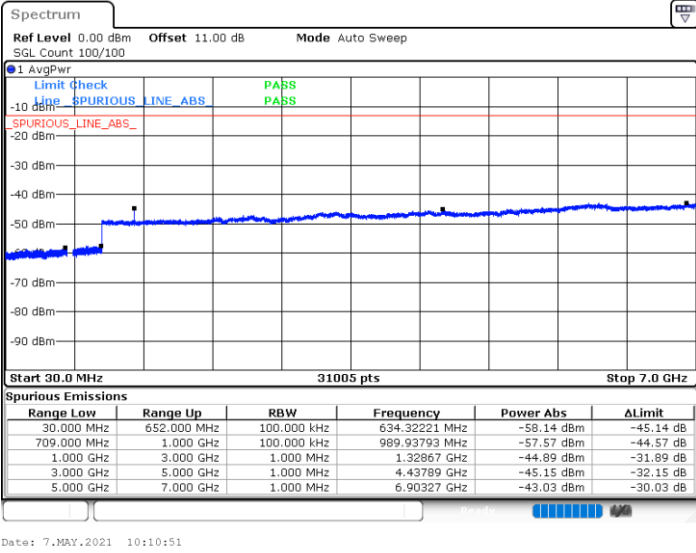




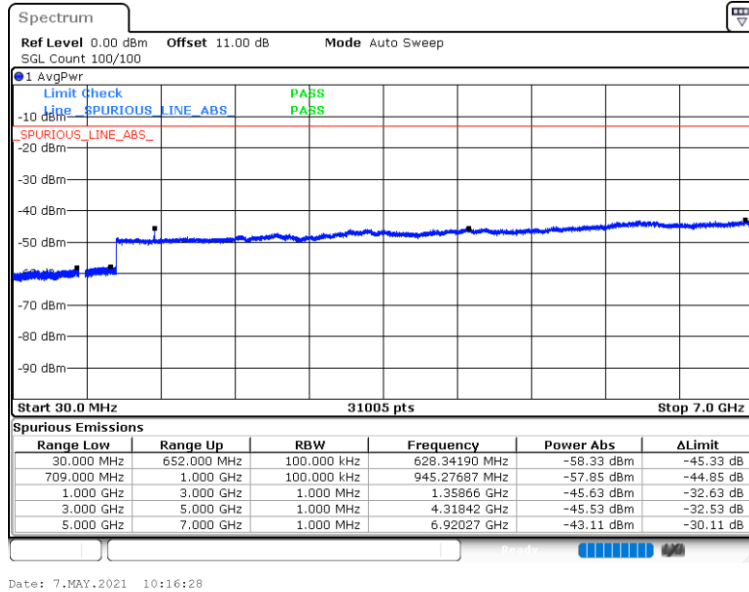
LTE Band 71 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0131	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0129	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0134	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Main>

LTE Band 25

LTE Band 25 / 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)
Lowest	3711	-55.13	-13	-42.13	-76.04	-64.78	2.77	12.42	H
	5567	-52.01	-13	-39.01	-76.97	-61.91	3.47	13.37	H
	7422	-46.51	-13	-33.51	-76.03	-53.64	3.99	11.11	H
									H
									H
									H
	3711	-54.56	-13	-41.56	-75.88	-64.21	2.77	12.42	V
	5567	-51.86	-13	-38.86	-76.93	-61.76	3.47	13.37	V
	7422	-46.01	-13	-33.01	-75.98	-53.14	3.99	11.11	V
									V
									V
									V
Middle	3751	-54.31	-13	-41.31	-75.37	-64.03	2.78	12.50	H
	5627	-52.01	-13	-39.01	-76.96	-61.94	3.48	13.41	H
	7502	-47.25	-13	-34.25	-76.75	-54.45	4.00	11.20	H
									H
									H
									H
	3751	-54.12	-13	-41.12	-75.58	-63.84	2.78	12.50	V
	5627	-51.91	-13	-38.91	-77.08	-61.84	3.48	13.41	V
	7502	-47.15	-13	-34.15	-77.01	-54.35	4.00	11.20	V
									V
									V



Highest	3801	-54.02	-13	-41.02	-75.25	-63.63	2.79	12.40	H
	5702	-51.64	-13	-38.64	-76.98	-61.54	3.50	13.40	H
	7602	-46.52	-13	-33.52	-75.55	-53.89	4.04	11.40	H
									H
									H
									H
									H
	3801	-53.87	-13	-40.87	-75.48	-63.48	2.79	12.40	V
	5702	-51.44	-13	-38.44	-77.01	-61.34	3.50	13.40	V
	7602	-46.13	-13	-33.13	-75.71	-53.50	4.04	11.40	V
									V
									V
									V
									V

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



LTE Band 41

LTE Band 41 / 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)
Lowest	4994	-55.36	-25	-30.36	-79.19	-64.70	3.27	12.61	H
	7491	-48.71	-25	-23.71	-78.22	-55.89	4.00	11.18	H
	9988	-45.52	-25	-20.52	-78.89	-52.03	4.67	11.18	H
									H
									H
									H
	4994	-54.72	-25	-29.72	-79.23	-64.06	3.27	12.61	V
	7491	-48.87	-25	-23.87	-78.75	-56.05	4.00	11.18	V
	9988	-45.74	-25	-20.74	-78.86	-52.25	4.67	11.18	V
									V
									V
									V
Middle	5168	-53.85	-25	-28.85	-78.32	-63.13	3.33	12.61	H
	7752	-49.19	-25	-24.19	-78.38	-56.99	4.09	11.89	H
	10336	-44.42	-25	-19.42	-78.59	-50.57	4.77	10.92	H
									H
									H
									H
	5168	-53.24	-25	-28.24	-78.23	-62.52	3.33	12.61	V
	7752	-46.87	-25	-21.87	-76.56	-54.67	4.09	11.89	V
	10336	-45.62	-25	-20.62	-78.95	-51.77	4.77	10.92	V
									V
									V
									V



Highest	5342	-54.01	-25	-29.01	-78.65	-64.10	3.39	13.48	H
	8013	-48.01	-25	-23.01	-77.97	-54.68	4.18	10.85	H
	10684	-43.97	-25	-18.97	-78.45	-50.18	4.86	11.07	H
									H
									H
									H
									H
	5342	-53.63	-25	-28.63	-78.52	-63.72	3.39	13.48	V
	8013	-47.18	-25	-22.18	-77.27	-53.85	4.18	10.85	V
	10684	-44.69	-25	-19.69	-78.35	-50.90	4.86	11.07	V
									V
									V
									V
									V

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



LTE Band 66

LTE Band 66 / 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)
Lowest	3420	-59.54	-13	-46.54	-78.96	-69.46	2.68	12.60	H
	5133	-56.16	-13	-43.16	-80.5	-65.27	3.32	12.43	H
	6844	-51.46	-13	-38.46	-79.52	-60.00	3.86	12.40	H
									H
									H
									H
									H
	3420	-59.53	-13	-46.53	-79.32	-69.45	2.68	12.60	V
	5133	-56.03	-13	-43.03	-51.33	-65.14	3.32	12.43	V
	6844	-51.36	-13	-38.36	-68.44	-59.90	3.86	12.40	V
									V
									V
									V
									V
Middle	3469	-59.42	-13	-46.42	-79.28	-69.24	2.71	12.52	H
	5208	-55.61	-13	-42.61	-80.2	-65.13	3.34	12.86	H
	6944	-50.11	-13	-37.11	-78.47	-58.22	3.89	12.00	H
									H
									H
									H
									H
	3469	-58.66	-13	-45.66	-78.89	-68.48	2.71	12.52	V
	5208	-55.04	-13	-42.04	-80.11	-64.56	3.34	12.86	V
	6944	-50.05	-13	-37.05	-78.45	-58.16	3.89	12.00	V
									V
									V
									V



Highest	3525	-59.29	-13	-46.29	-79.54	-68.86	2.73	12.30	H
	5283	-55.56	-13	-42.56	-80.19	-65.52	3.37	13.33	H
	7044	-50.04	-13	-37.04	-78.61	-57.76	3.92	11.64	H
									H
									H
									H
									H
	3525	-58.89	-13	-45.89	-79.53	-68.46	2.73	12.30	V
	5283	-55.13	-13	-42.13	-80.11	-65.09	3.37	13.33	V
	7044	-49.91	-13	-36.91	-78.46	-57.63	3.92	11.64	V
									V
									V
									V
									V

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



LTE Band 71

LTE Band 71 / 20MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-62.40	-13	-49.40	-73.43	-67.22	1.64	6.46	H
	1992	-59.47	-13	-46.47	-72.99	-67.34	2.03	9.90	H
	2656	-59.88	-13	-46.88	-76.6	-68.35	2.33	10.80	H
									H
									H
									H
									H
	1328	-62.77	-13	-49.77	-73.79	-67.59	1.64	6.46	V
	1992	-56.49	-13	-43.49	-70.27	-64.36	2.03	9.90	V
	2656	-59.29	-13	-46.29	-76.57	-67.76	2.33	10.80	V
									V
									V
									V
									V
Middle	1348	-62.93	-13	-49.93	-74.04	-67.77	1.65	6.50	H
	2022	-59.23	-13	-46.23	-73.01	-67.09	2.04	9.90	H
	2696	-59.35	-13	-46.35	-76.31	-67.80	2.35	10.80	H
									H
									H
									H
									H
	1348	-62.52	-13	-49.52	-73.68	-67.36	1.65	6.50	V
	2022	-58.28	-13	-45.28	-72.36	-66.14	2.04	9.90	V
	2696	-58.92	-13	-45.92	-76.35	-67.37	2.35	10.80	V
									V
									V
									V
									V



Highest	1358	-63.34	-13	-50.34	-74.48	-68.24	1.66	6.56	H
	2037	-59.85	-13	-46.85	-73.8	-67.70	2.05	9.90	H
	2716	-59.56	-13	-46.56	-76.64	-68.07	2.36	10.86	H
									H
									H
									H
									H
	1358	-63.16	-13	-50.16	-74.37	-68.06	1.66	6.56	V
	2037	-58.26	-13	-45.26	-72.54	-66.11	2.05	9.90	V
	2716	-59.22	-13	-46.22	-76.73	-67.73	2.36	10.86	V
									V
									V
									V
									V

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



<Sub>

LTE Band 5

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649	-62.93	-13	-49.93	-74.91	-68.24	1.83	9.29	H
	2474	-57.26	-13	-44.26	-73.85	-63.51	2.25	10.64	H
	3298	-58.30	-13	-45.30	-77	-65.82	2.62	12.29	H
									H
									H
									H
	1649	-62.78	-13	-49.78	-75.22	-68.09	1.83	9.29	V
	2474	-53.34	-13	-40.34	-70.15	-59.59	2.25	10.64	V
	3298	-58.13	-13	-45.13	-77.23	-65.65	2.62	12.29	V
									V
									V
									V
Middle	1664	-63.33	-13	-50.33	-75.42	-68.72	1.84	9.38	H
	2496	-57.68	-13	-44.68	-74.44	-64.05	2.26	10.78	H
	3328	-58.74	-13	-45.74	-77.36	-66.48	2.64	12.52	H
									H
									H
									H
	1664	-62.79	-13	-49.79	-75.35	-68.18	1.84	9.38	V
	2496	-56.57	-13	-43.57	-73.4	-62.94	2.26	10.78	V
	3328	-58.45	-13	-45.45	-77.47	-66.19	2.64	12.52	V
									V
									V
									V



Highest	1679	-63.05	-13	-50.05	-75.26	-68.52	1.85	9.47	H
	2519	-58.22	-13	-45.22	-74.92	-64.60	2.27	10.80	H
	3358	-58.67	-13	-45.67	-77.23	-66.55	2.65	12.68	H
									H
									H
									H
									H
	1679	-62.23	-13	-49.23	-74.91	-67.70	1.85	9.47	V
	2519	-56.53	-13	-43.53	-73.39	-62.91	2.27	10.80	V
	3358	-57.77	-13	-44.77	-76.71	-65.65	2.65	12.68	V
									V
									V
									V
									V

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



LTE Band 13

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-63.77	-13	-50.77	-79.79	-68.45	1.78	8.61	H
	2332	-60.42	-13	-47.42	-76.34	-65.78	2.18	9.69	H
	3109	-59.14	-13	-46.14	-77.46	-65.78	2.53	11.32	H
									H
									H
									H
									H
	1552	-63.71	-13	-50.71	-75.81	-68.39	1.78	8.61	V
	2332	-60.23	-13	-47.23	-76.86	-65.59	2.18	9.69	V
	3109	-58.77	-13	-45.77	-77.64	-65.41	2.53	11.32	V
									V
									V
									V
									V
Middle	1560	-63.99	-42.15	-21.84	-75.94	-68.72	1.78	8.66	H
	2339	-60.85	-13	-47.85	-76.78	-66.25	2.19	9.73	H
	3119	-59.63	-13	-46.63	-78.01	-66.28	2.54	11.34	H
									H
									H
									H
									H
	1560	-64.17	-42.15	-22.02	-76.26	-68.90	1.78	8.66	V
	2339	-60.49	-13	-47.49	-77.13	-65.89	2.19	9.73	V
	3119	-58.86	-13	-45.86	-77.78	-65.51	2.54	11.34	V
									V
									V
									V
									V



Highest	1560	-63.57	-42.15	-21.42	-75.52	-68.30	1.78	8.66	H
	2344	-59.86	-13	-46.86	-75.79	-65.29	2.19	9.76	H
	3129	-59.21	-13	-46.21	-77.67	-65.88	2.54	11.36	H
									H
									H
									H
									H
	1560	-64.22	-42.15	-22.07	-76.31	-68.95	1.78	8.66	V
	2344	-60.04	-13	-47.04	-76.69	-65.47	2.19	9.76	V
	3129	-59.00	-13	-46.00	-77.98	-65.67	2.54	11.36	V
									V
									V
									V
									V

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



LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-64.14	-13	-51.14	-76.16	-68.82	1.78	8.61	H
	2332	-61.70	-13	-48.70	-77.62	-67.06	2.18	9.69	H
	3110	-59.89	-13	-46.89	-78.22	-66.53	2.53	11.32	H
									H
									H
									H
									H
	1552	-64.01	-13	-51.01	-76.11	-68.69	1.78	8.61	V
	2332	-61.06	-13	-48.06	-77.69	-66.42	2.18	9.69	V
	3110	-59.10	-13	-46.10	-77.98	-65.74	2.53	11.32	V
									V
									V
									V
									V

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

————THE END————