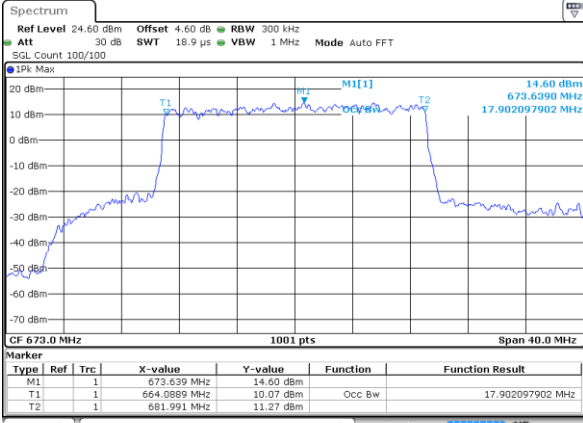




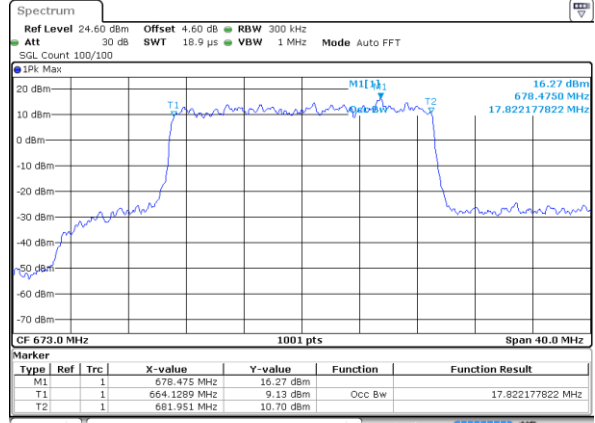
LTE Band 71

Lowest Channel / 20MHz / QPSK



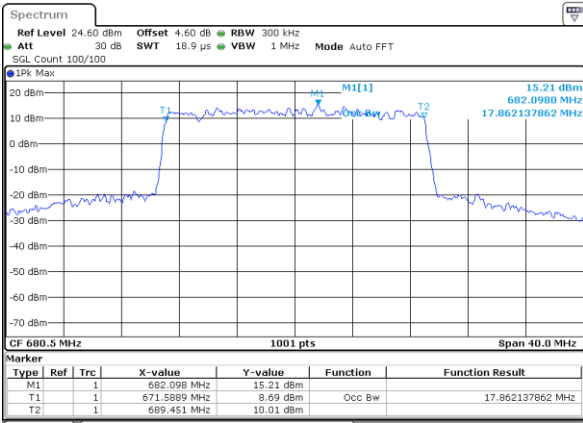
Date: 4 MAY 2020 15:22:37

Lowest Channel / 20MHz / 16QAM



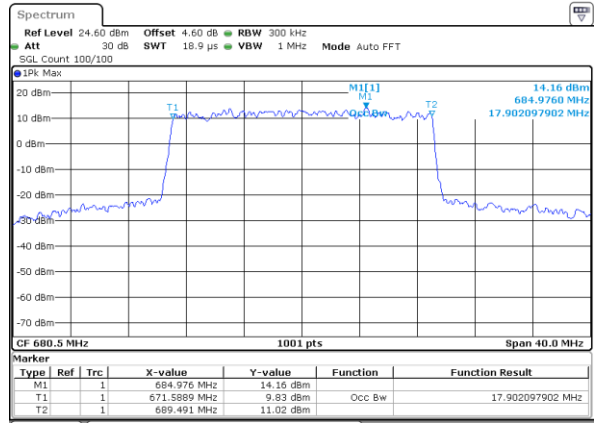
Date: 4 MAY 2020 15:24:22

Middle Channel / 20MHz / QPSK



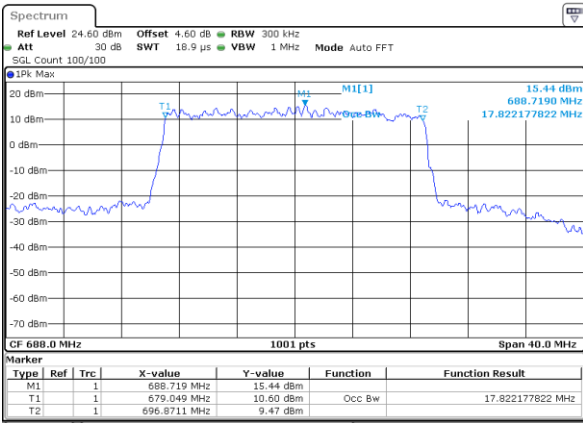
Date: 4 MAY 2020 15:07:42

Middle Channel / 20MHz / 16QAM



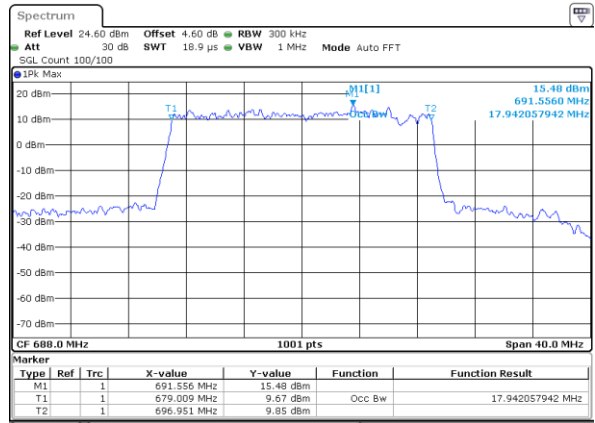
Date: 4 MAY 2020 15:07:24

Highest Channel / 20MHz / QPSK



Date: 4 MAY 2020 15:31:27

Highest Channel / 20MHz / 16QAM

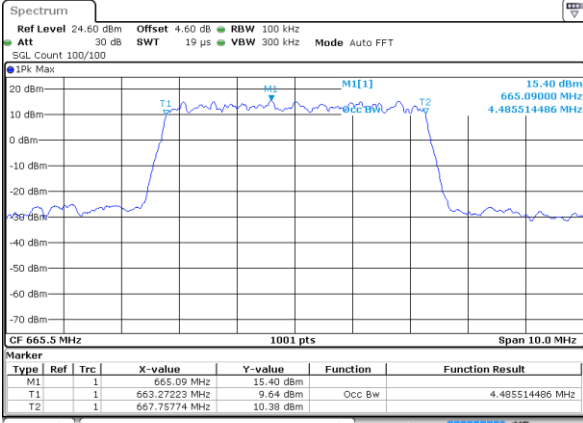


Date: 4 MAY 2020 15:41:35



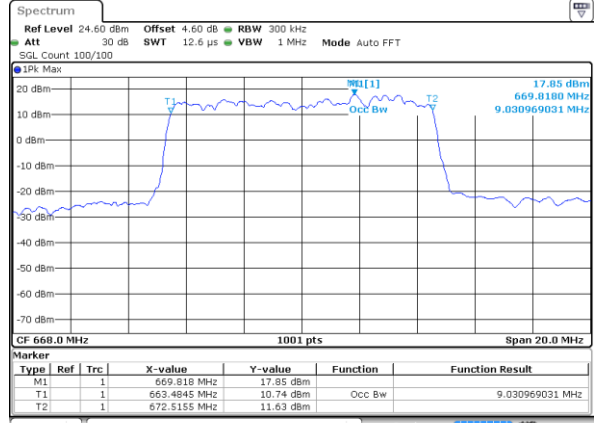
LTE Band 71

Lowest Channel / 5MHz / 64QAM



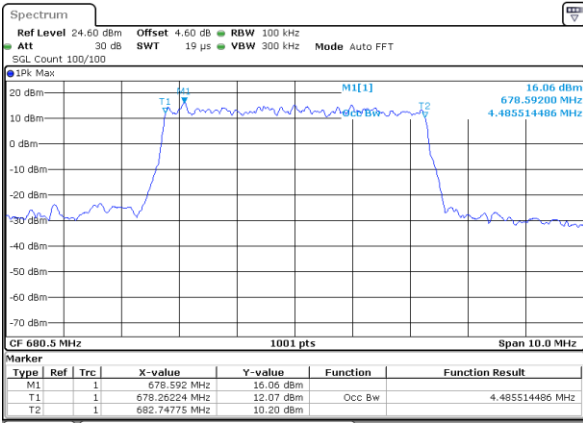
Date: 4 MAY 2020 12:06:49

Lowest Channel / 10MHz / 64QAM



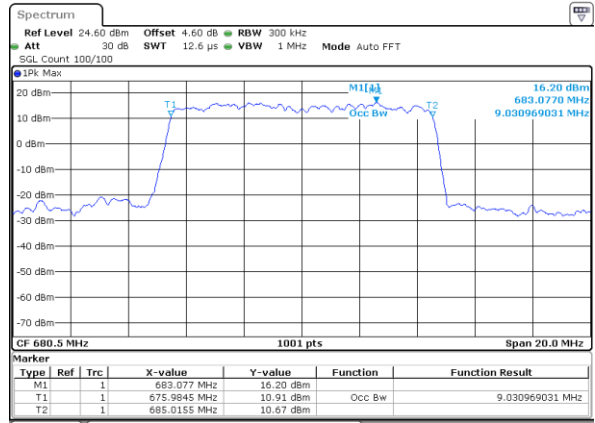
Date: 4 MAY 2020 12:41:43

Middle Channel / 5MHz / 64QAM



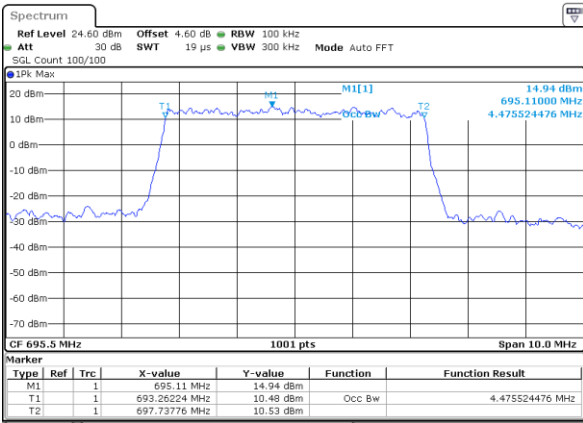
Date: 4 MAY 2020 11:43:48

Middle Channel / 10MHz / 64QAM



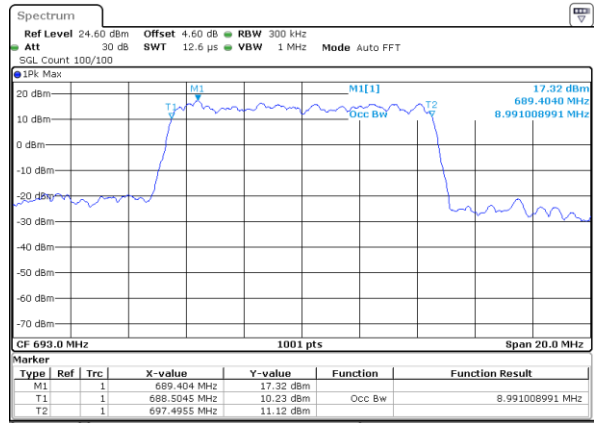
Date: 4 MAY 2020 12:24:04

Highest Channel / 5MHz / 64QAM



Date: 4 MAY 2020 12:22:18

Highest Channel / 10MHz / 64QAM

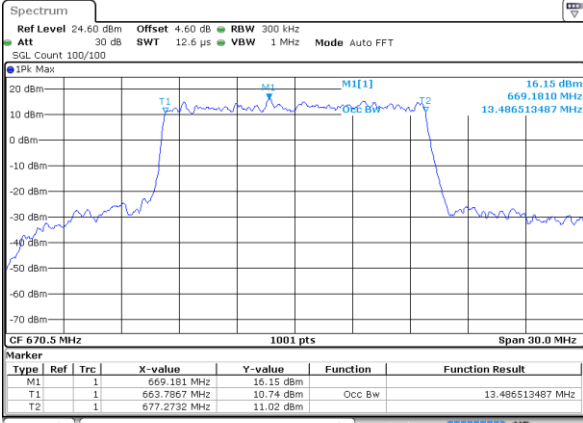


Date: 4 MAY 2020 12:46:25



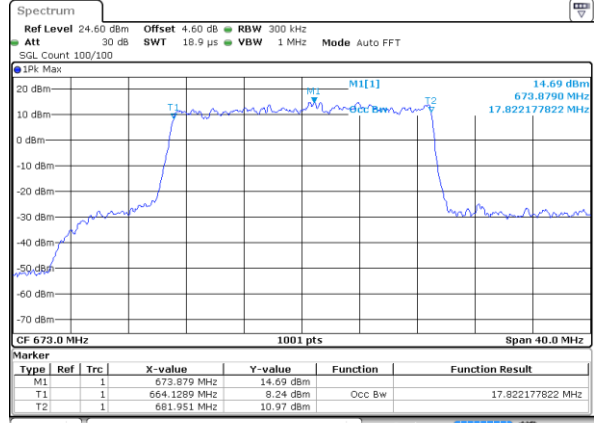
LTE Band 71

Lowest Channel / 15MHz / 64QAM



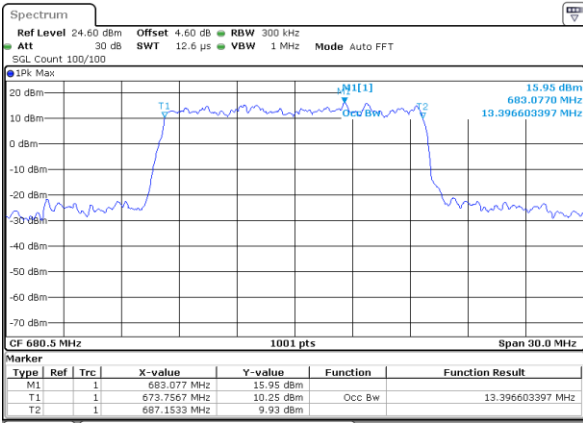
Date: 4 MAY 2020 14:22:09

Lowest Channel / 20MHz / 64QAM



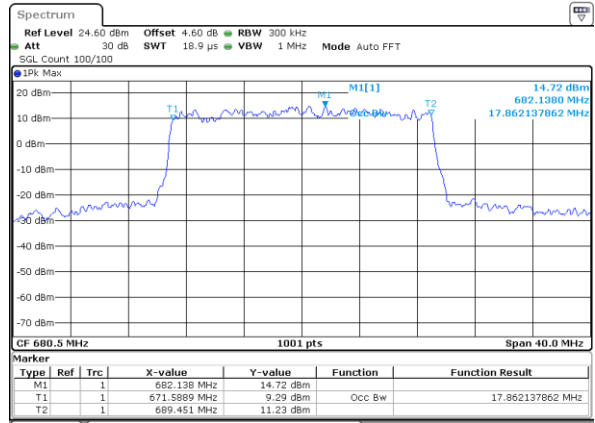
Date: 4 MAY 2020 15:25:53

Middle Channel / 15MHz / 64QAM



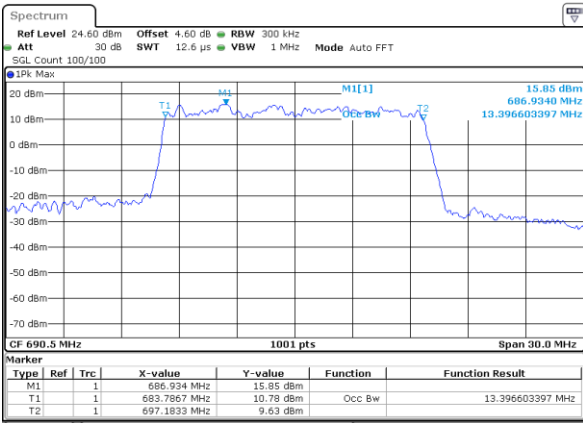
Date: 4 MAY 2020 14:06:45

Middle Channel / 20MHz / 64QAM



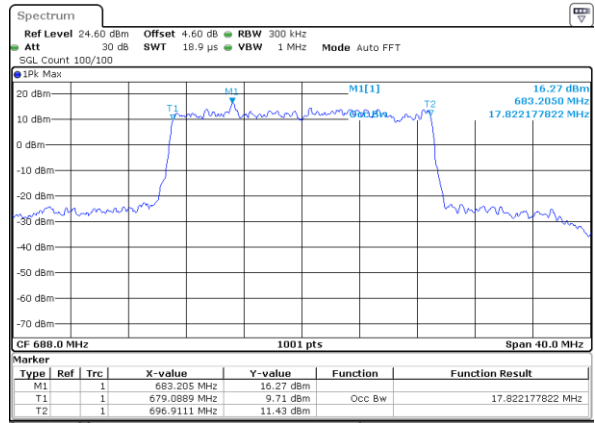
Date: 4 MAY 2020 15:07:01

Highest Channel / 15MHz / 64QAM



Date: 4 MAY 2020 14:39:56

Highest Channel / 20MHz / 64QAM



Date: 4 MAY 2020 15:43:38

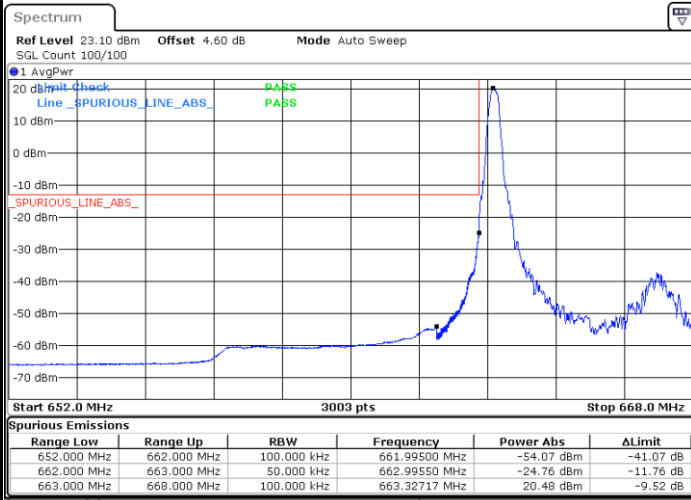


Conducted Band Edge



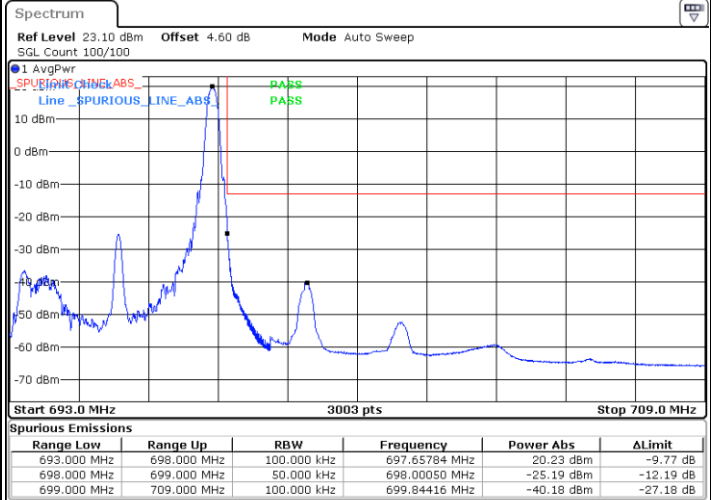
LTE Band 71 / 5MHz / QPSK

Lowest Band Edge / 1 RB



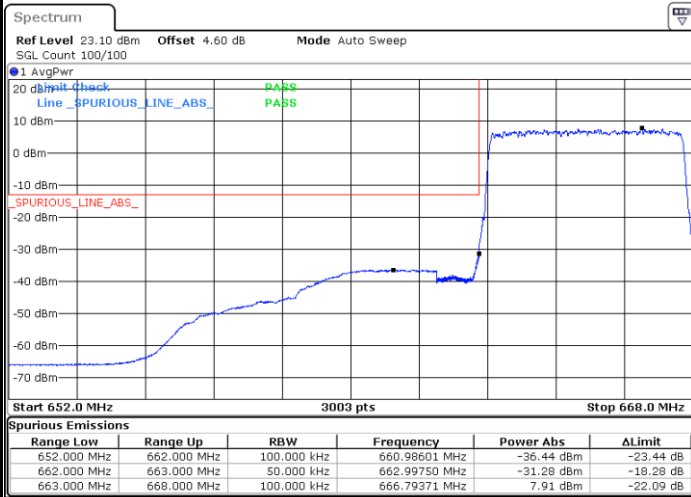
Date: 4 MAY 2020 12:00:28

Highest Band Edge / 1 RB



Date: 4 MAY 2020 12:17:13

Lowest Band Edge / Full RB



Date: 4 MAY 2020 12:10:09

Highest Band Edge / Full RB

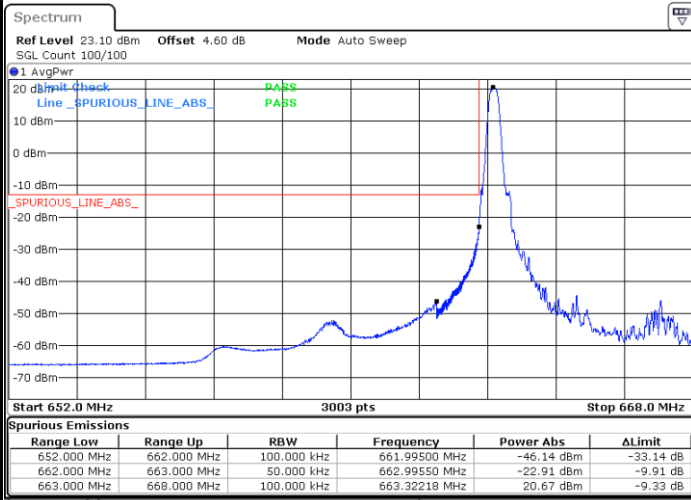


Date: 4 MAY 2020 12:20:54



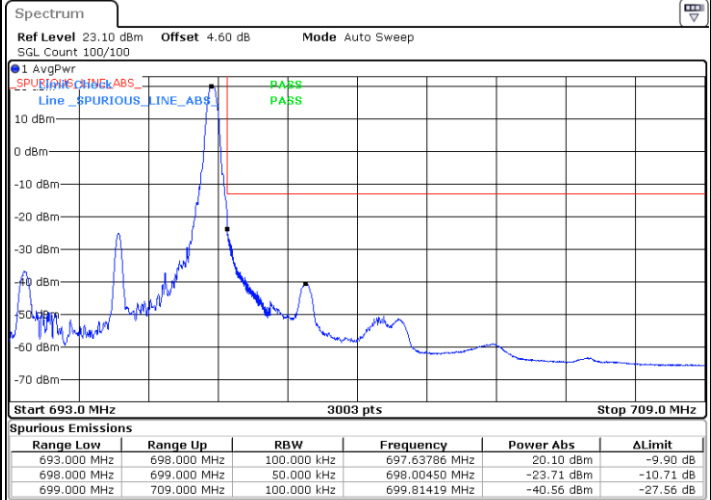
LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



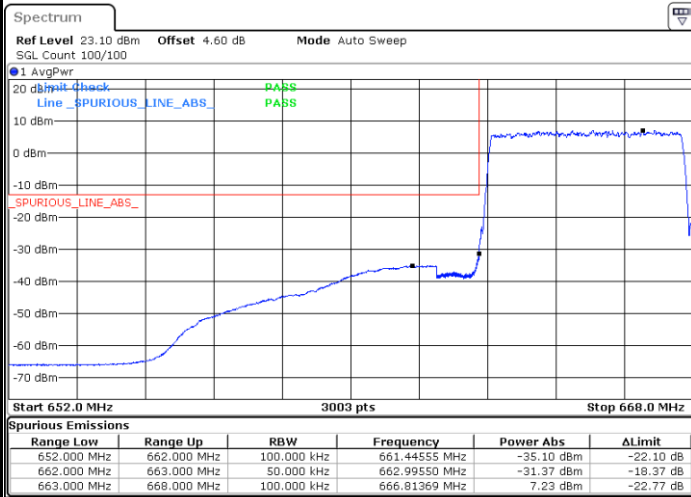
Date: 4 MAY 2020 12:05:16

Highest Band Edge / 1 RB



Date: 4 MAY 2020 12:15:19

Lowest Band Edge / Full RB



Date: 4 MAY 2020 12:08:56

Highest Band Edge / Full RB

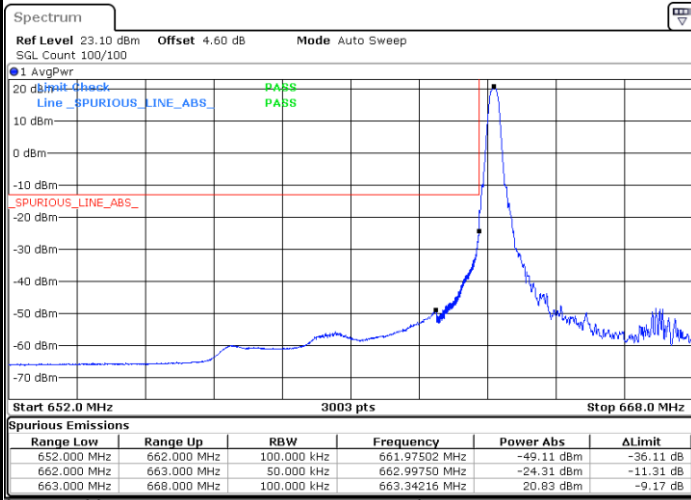


Date: 4 MAY 2020 12:22:02



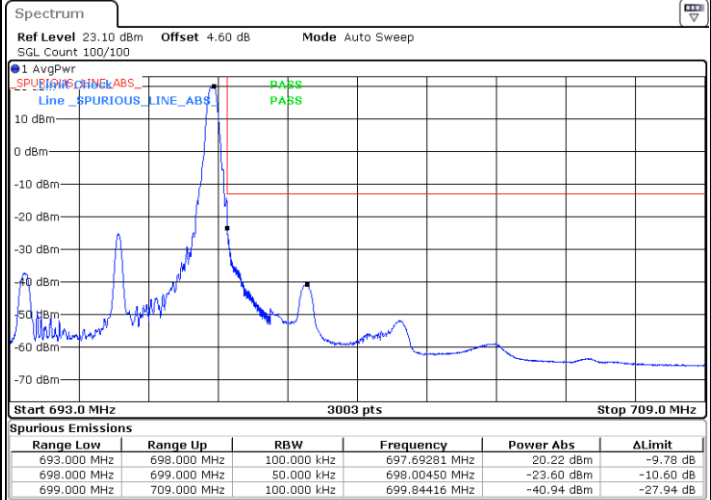
LTE Band 71 / 5MHz / 64QAM

Lowest Band Edge / 1RB



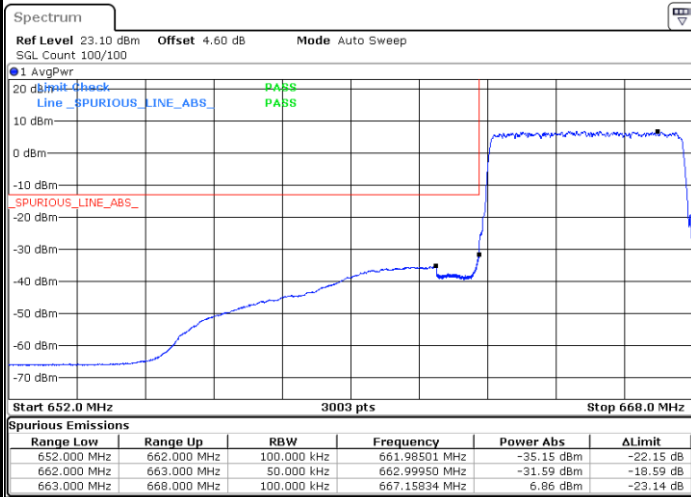
Date: 4 MAY 2020 11:47:04

Highest Band Edge / 1 RB



Date: 4 MAY 2020 12:14:15

Lowest Band Edge / Full RB



Date: 4 MAY 2020 12:07:37

Highest Band Edge / Full RB

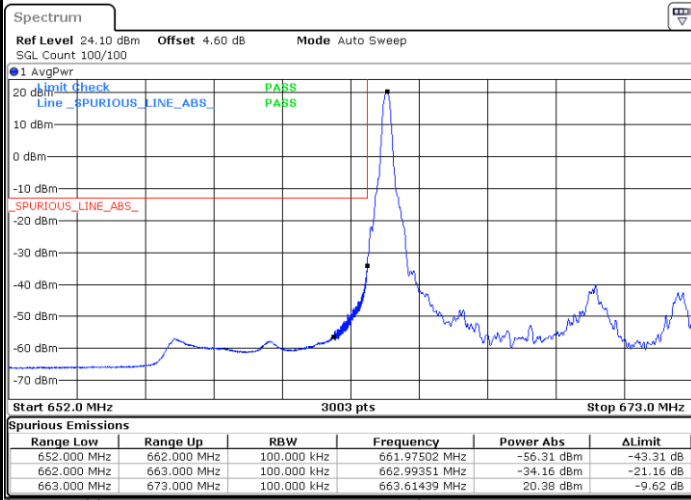


Date: 4 MAY 2020 12:23:28



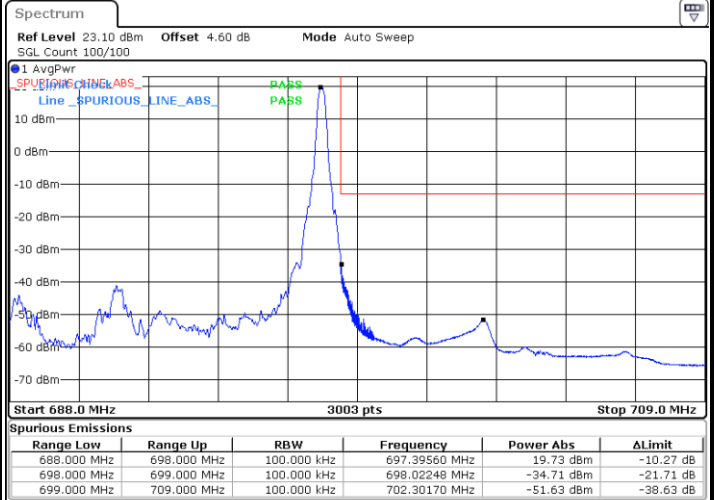
LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB



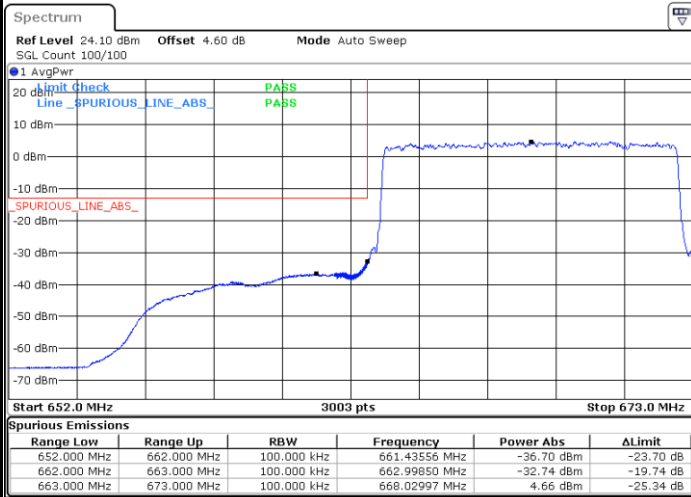
Date: 4 MAY 2020 12:35:44

Highest Band Edge / 1 RB



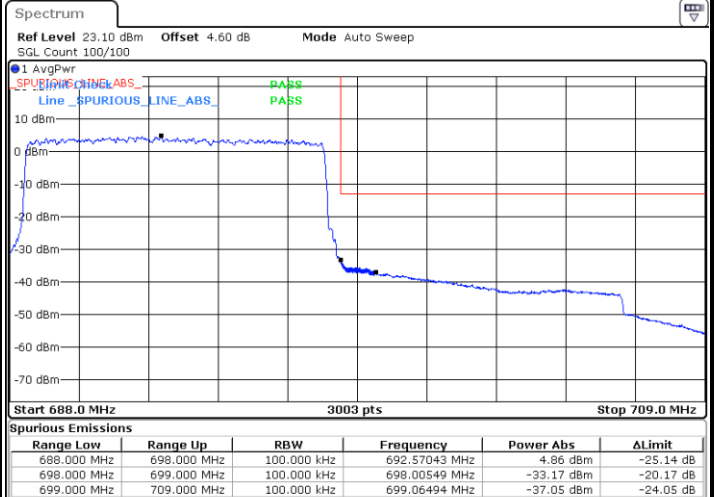
Date: 4 MAY 2020 14:05:00

Lowest Band Edge / Full RB



Date: 4 MAY 2020 12:37:26

Highest Band Edge / Full RB

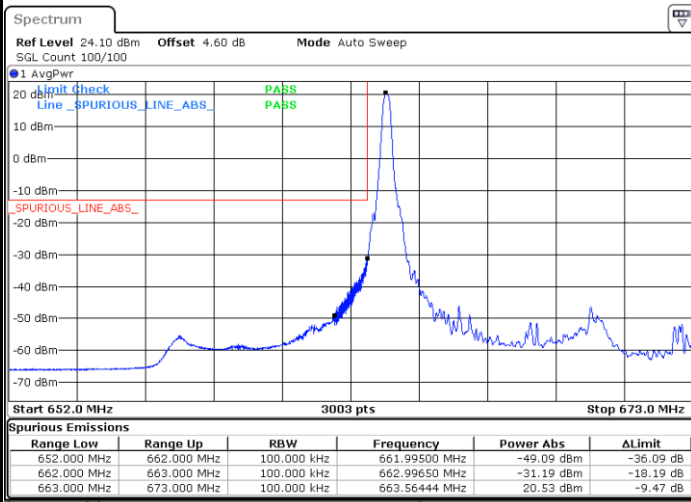


Date: 4 MAY 2020 12:50:53



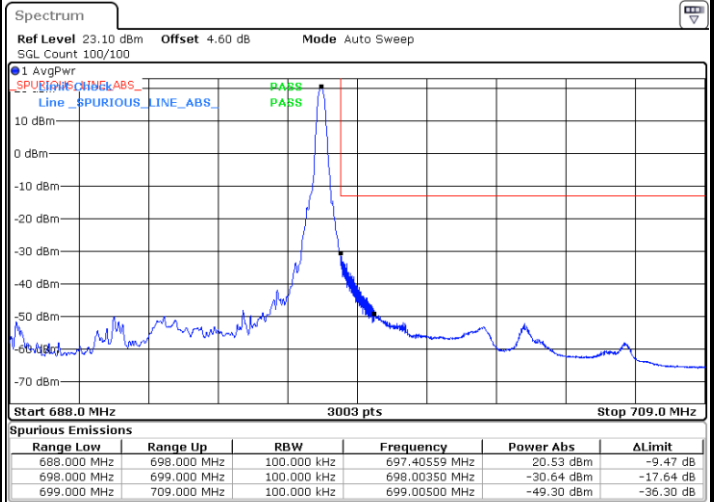
LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



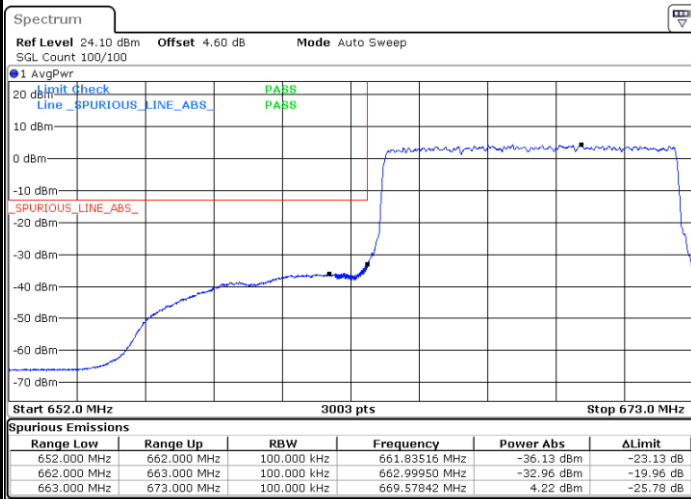
Date: 4 MAY 2020 12:32:30

Highest Band Edge / 1 RB



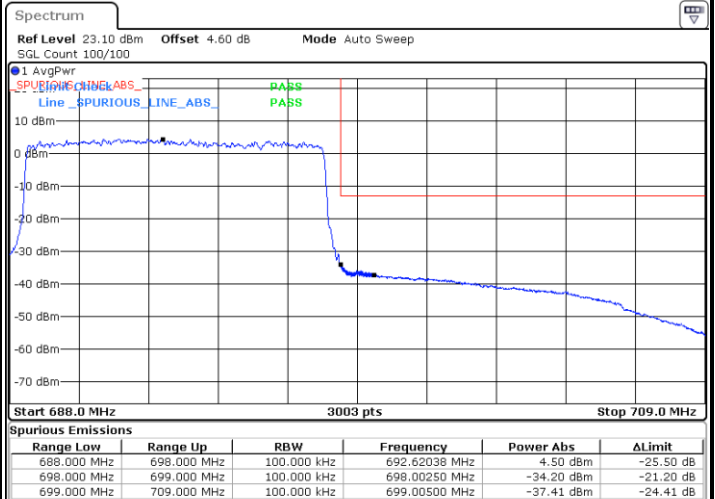
Date: 4 MAY 2020 14:04:16

Lowest Band Edge / Full RB



Date: 4 MAY 2020 12:41:24

Highest Band Edge / Full RB

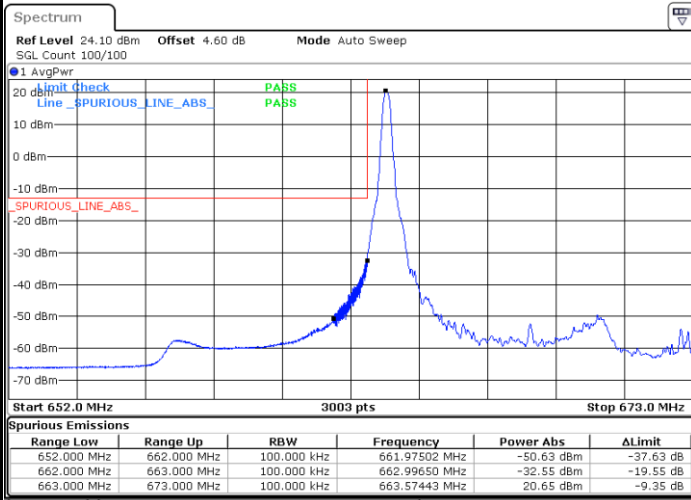


Date: 4 MAY 2020 12:49:24



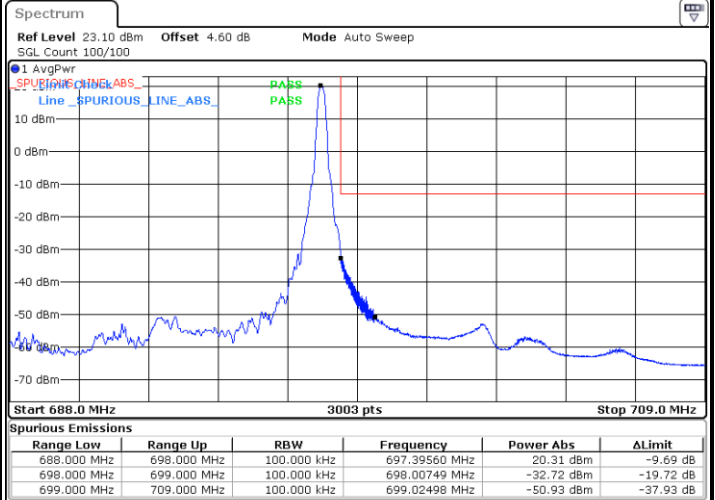
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



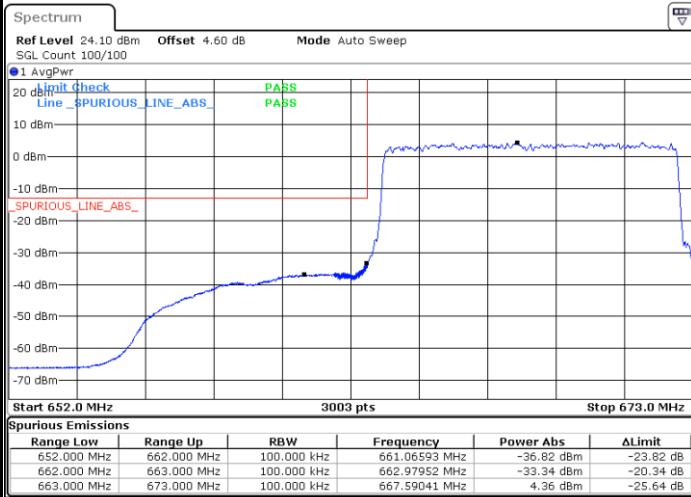
Date: 4 MAY 2020 12:30:07

Highest Band Edge / 1 RB



Date: 4 MAY 2020 14:00:20

Lowest Band Edge / Full RB



Date: 4 MAY 2020 12:45:45

Highest Band Edge / Full RB

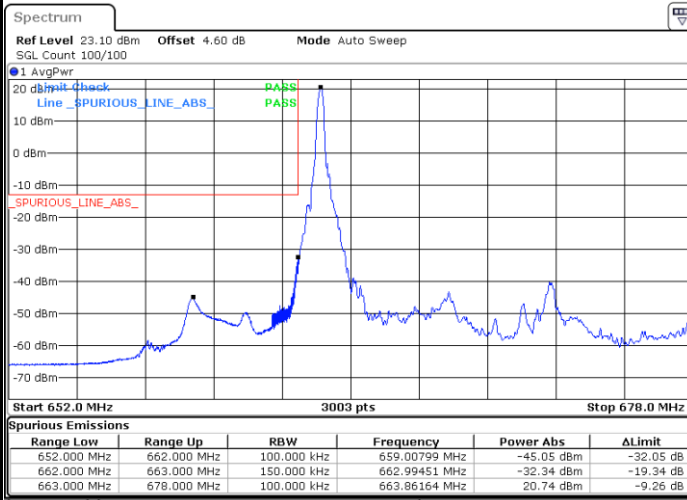


Date: 4 MAY 2020 12:47:36



LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



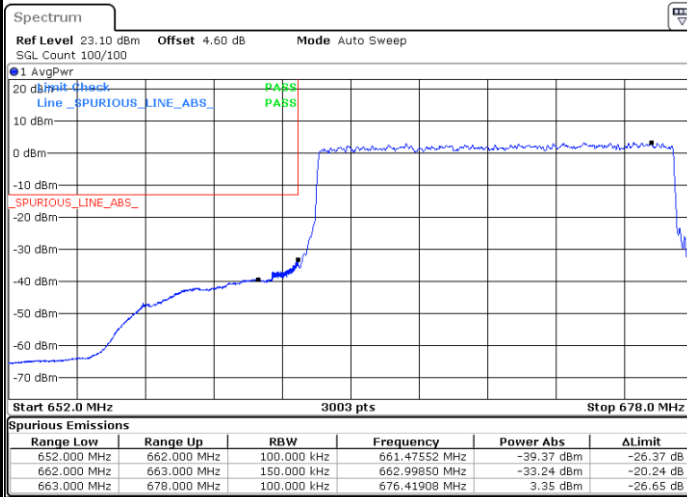
Date: 4 MAY 2020 14:11:07

Highest Band Edge / 1 RB



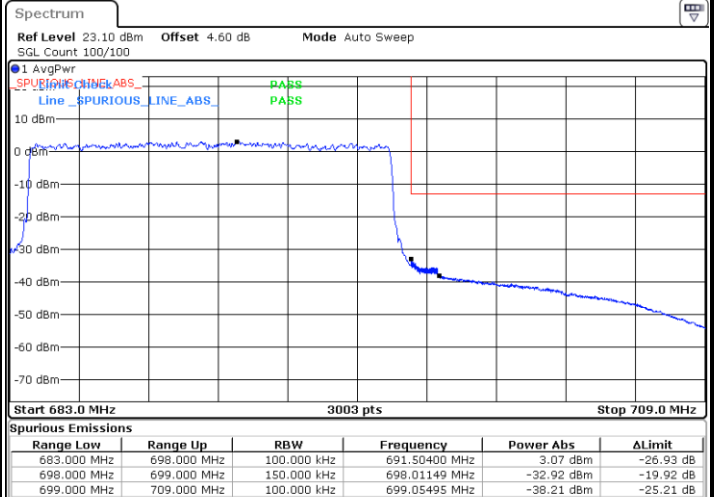
Date: 4 MAY 2020 15:01:05

Lowest Band Edge / Full RB



Date: 4 MAY 2020 14:35:43

Highest Band Edge / Full RB

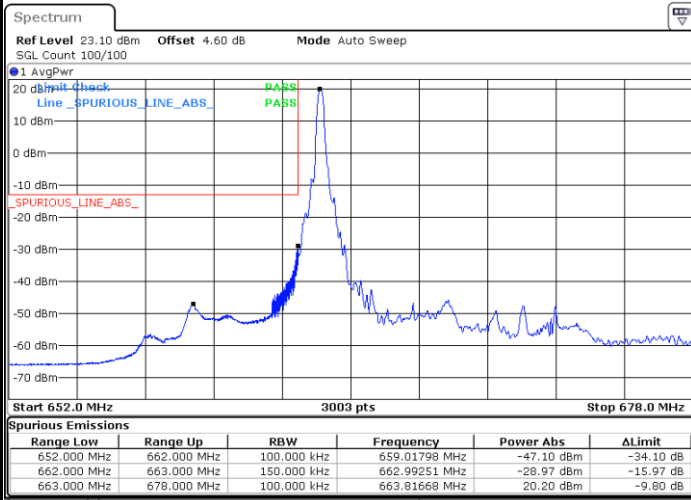


Date: 4 MAY 2020 14:37:25



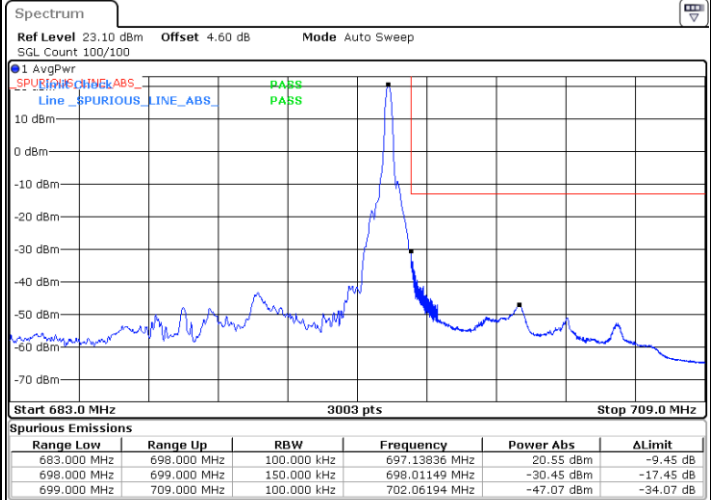
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



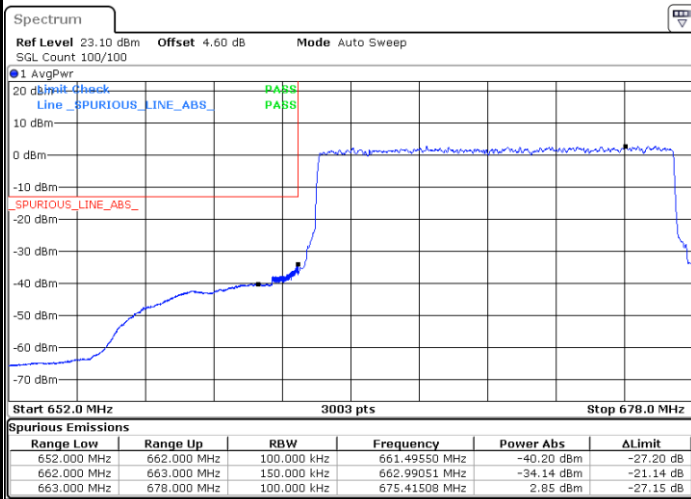
Date: 4 MAY 2020 14:14:23

Highest Band Edge / 1 RB



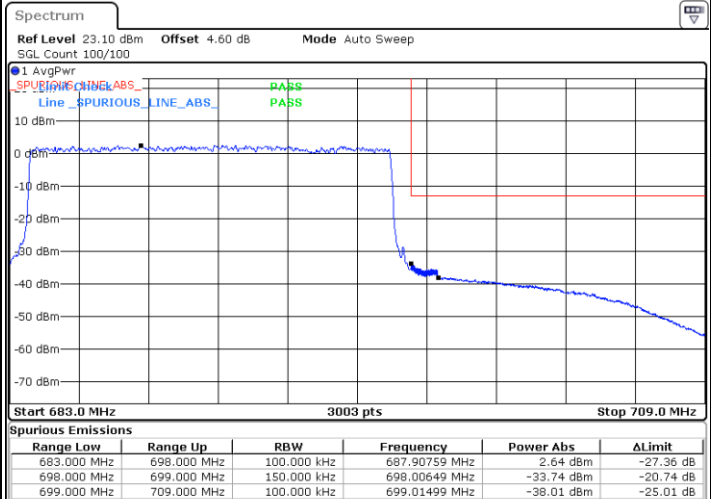
Date: 4 MAY 2020 15:02:02

Lowest Band Edge / Full RB



Date: 4 MAY 2020 14:20:46

Highest Band Edge / Full RB

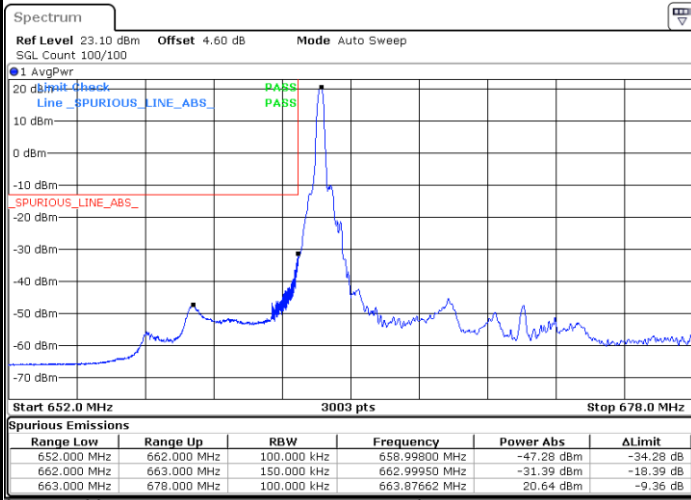


Date: 4 MAY 2020 14:39:41



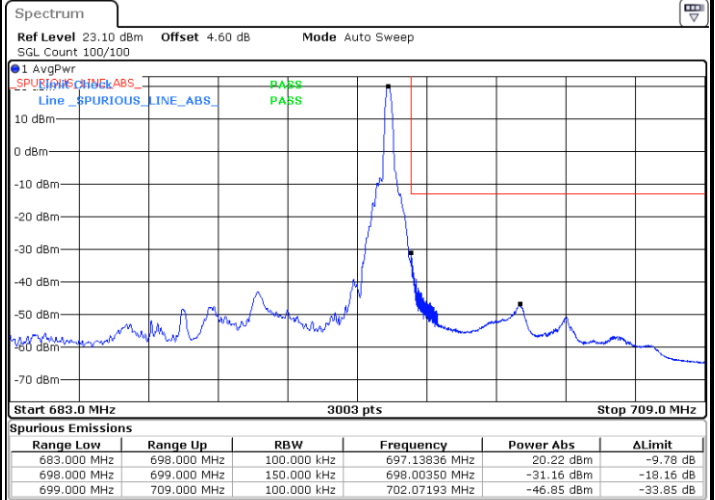
LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



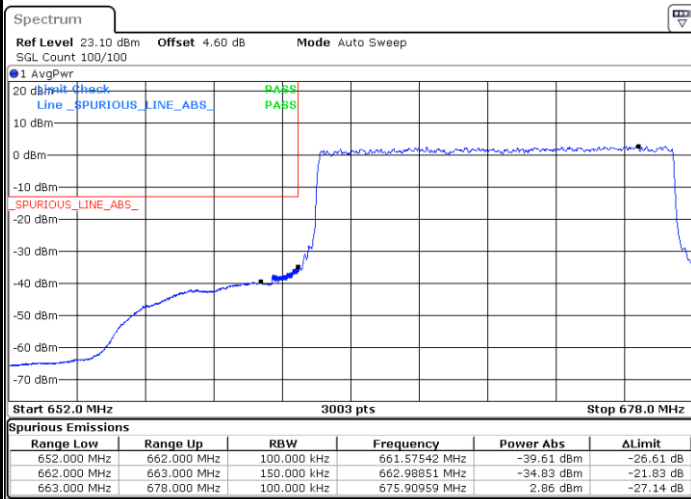
Date: 4 MAY 2020 14:17:50

Highest Band Edge / 1 RB



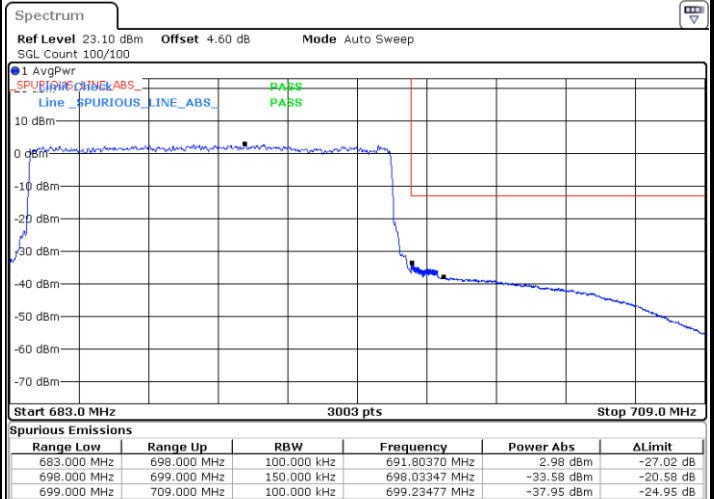
Date: 4 MAY 2020 15:06:22

Lowest Band Edge / Full RB



Date: 4 MAY 2020 14:23:29

Highest Band Edge / Full RB

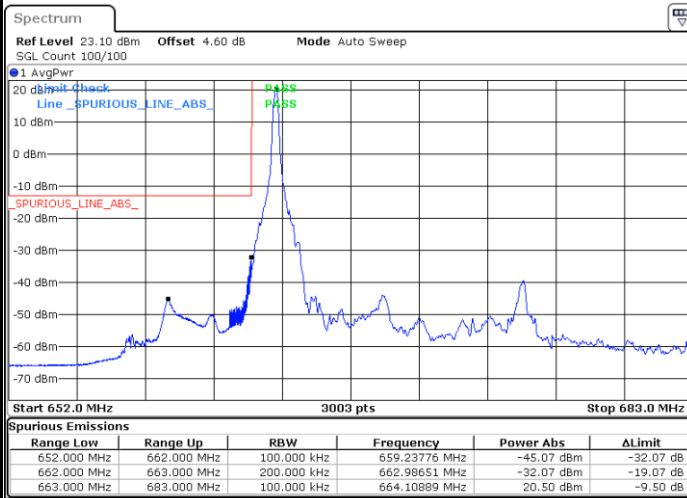


Date: 4 MAY 2020 14:59:08



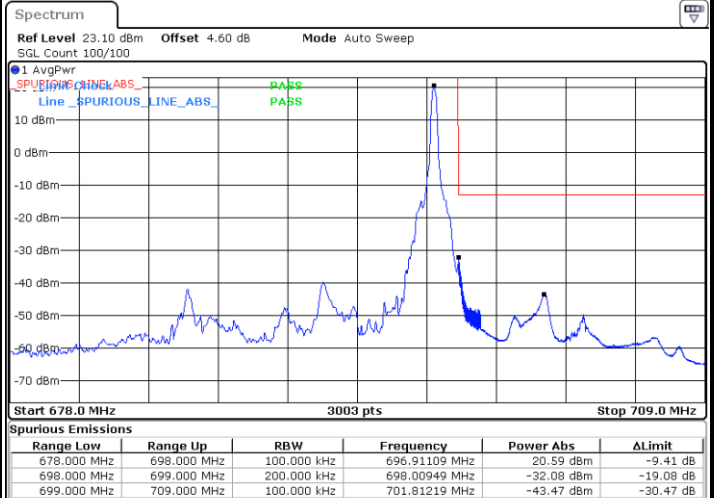
LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB



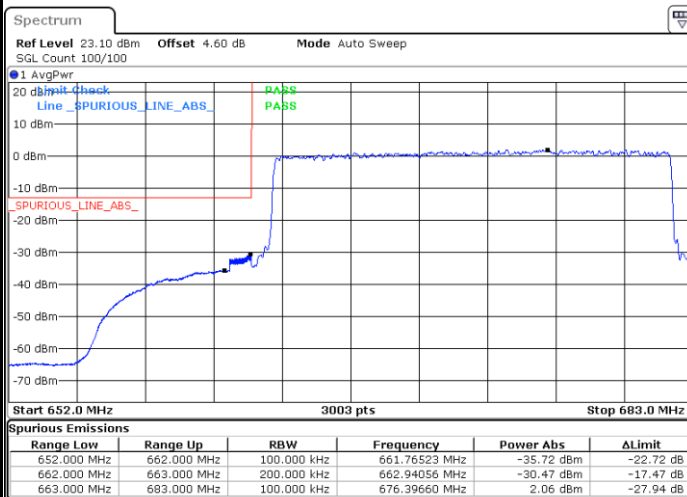
Date: 4 MAY 2020 15:21:48

Highest Band Edge / 1 RB



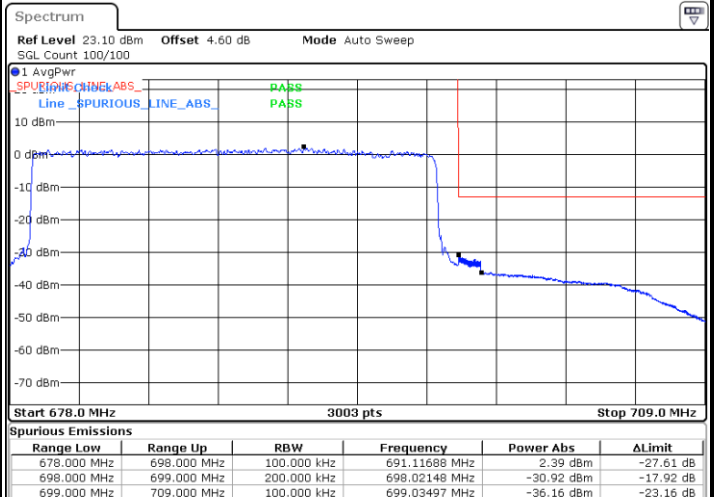
Date: 4 MAY 2020 15:53:34

Lowest Band Edge / Full RB



Date: 4 MAY 2020 15:23:57

Highest Band Edge / Full RB

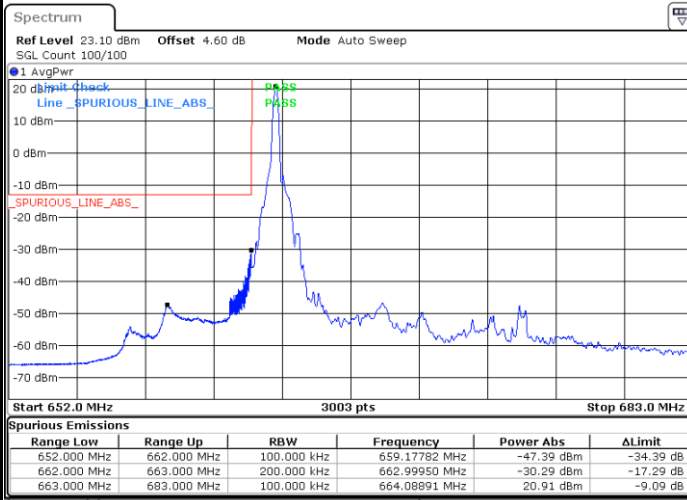


Date: 4 MAY 2020 15:41:07



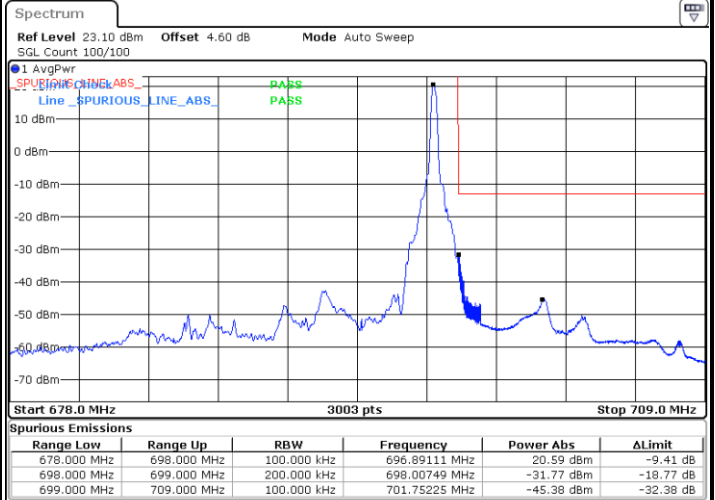
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



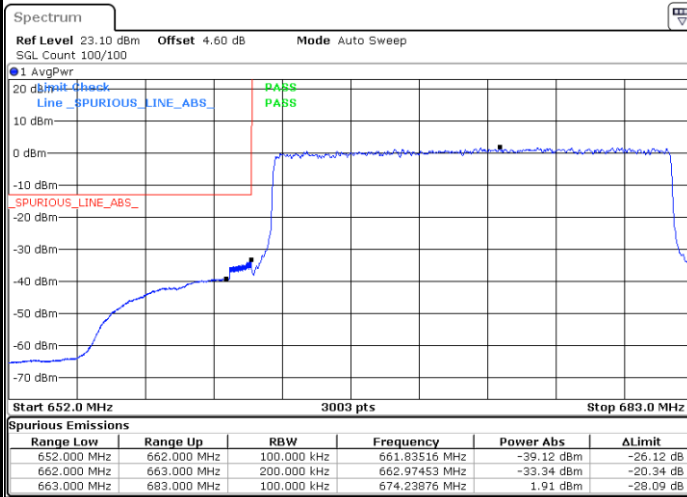
Date: 4 MAY 2020 15:18:15

Highest Band Edge / 1RB



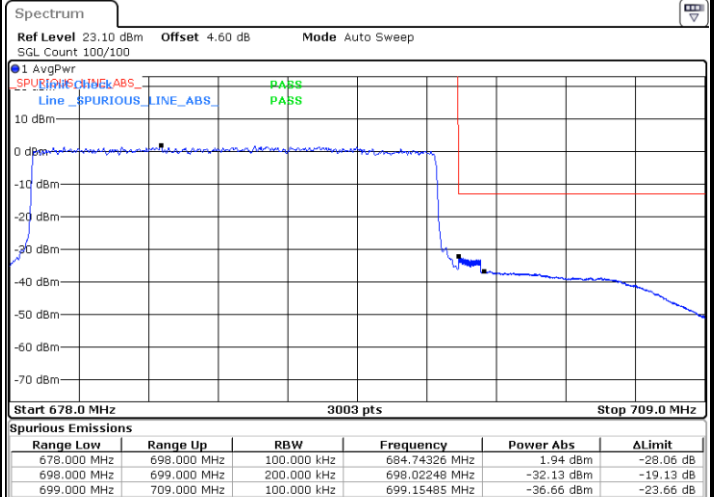
Date: 4 MAY 2020 15:59:55

Lowest Band Edge / Full RB



Date: 4 MAY 2020 15:25:27

Highest Band Edge / Full RB

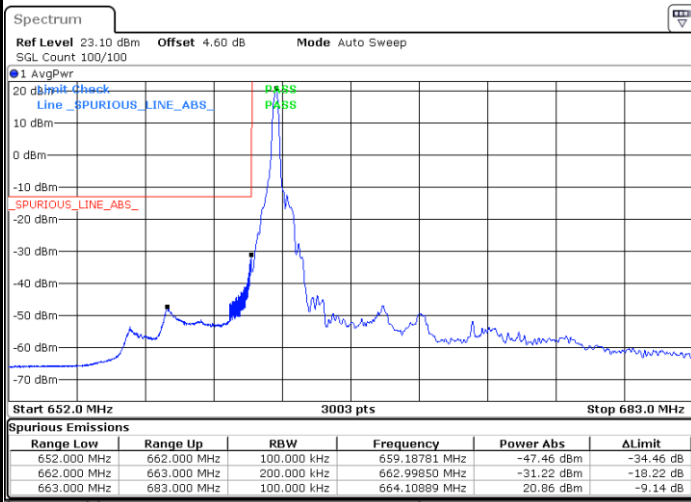


Date: 4 MAY 2020 15:43:18



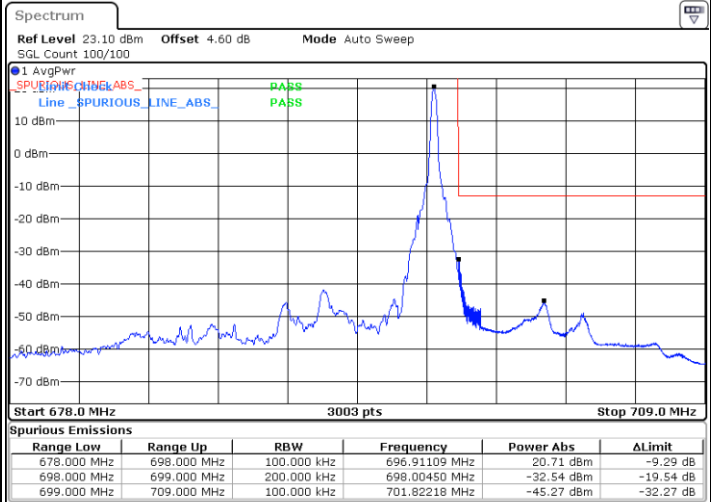
LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



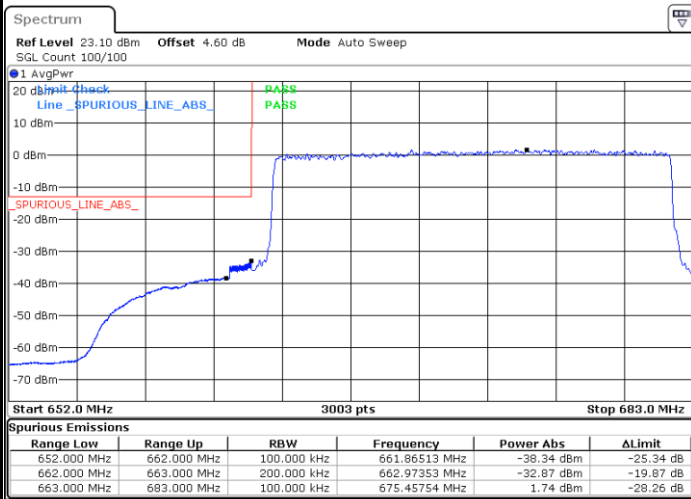
Date: 4 MAY 2020 15:15:58

Highest Band Edge / 1 RB



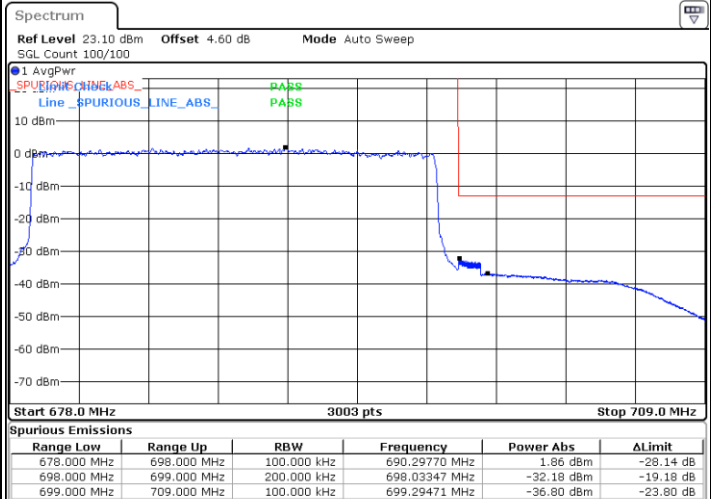
Date: 4 MAY 2020 16:00:43

Lowest Band Edge / Full RB



Date: 4 MAY 2020 15:27:05

Highest Band Edge / Full RB



Date: 4 MAY 2020 15:50:12



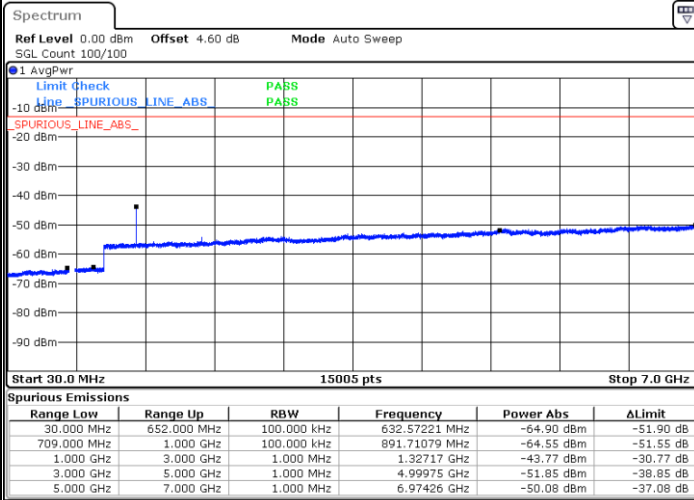
Conducted Spurious Emission



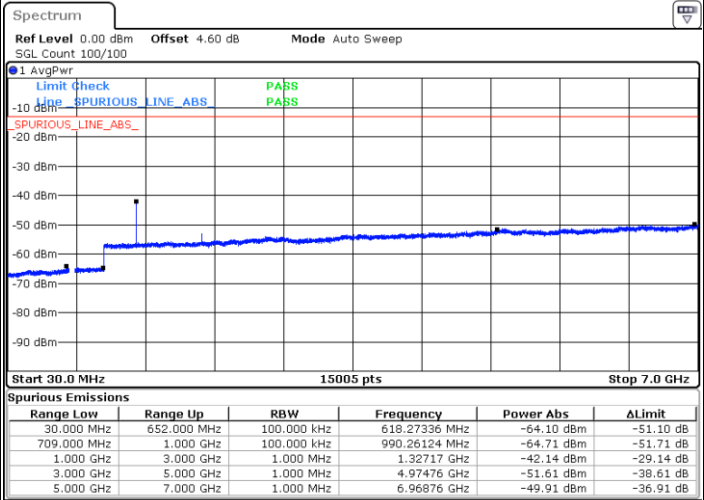
LTE Band 71 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



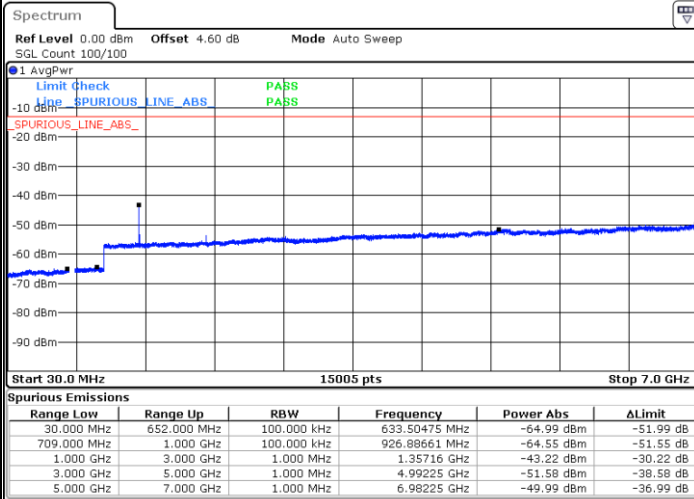
Date: 4 MAY.2020 12:03:32



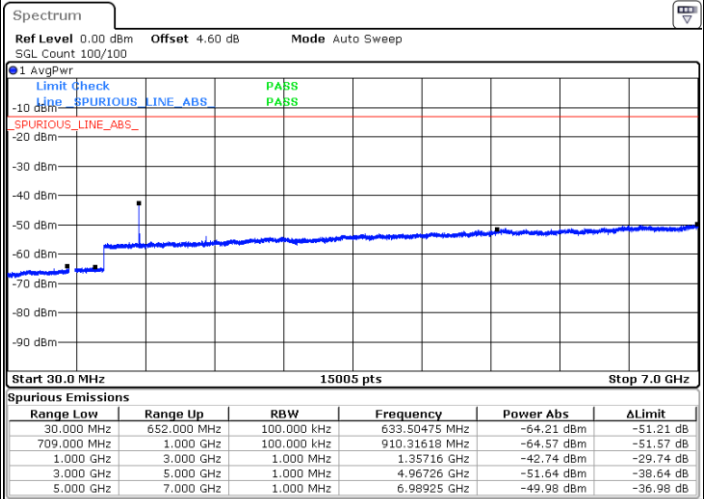
Date: 4 MAY.2020 12:04:20

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4 MAY.2020 12:11:08

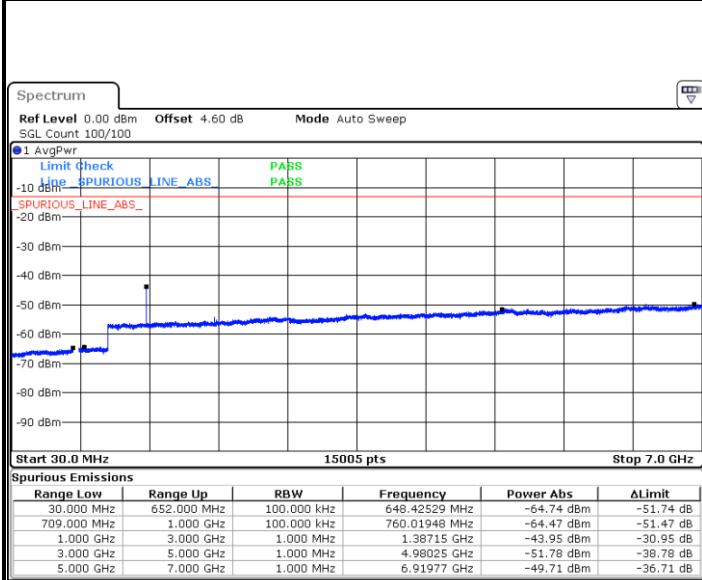


Date: 4 MAY.2020 12:11:34



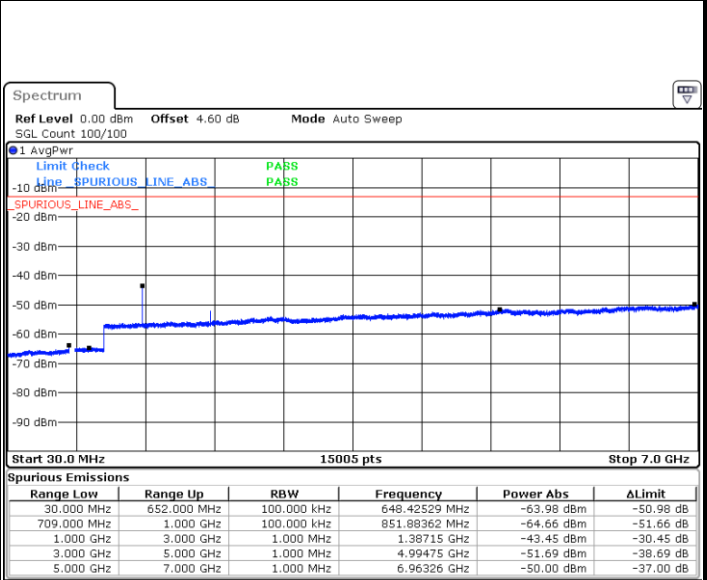
LTE Band 71 / 5MHz

Highest Channel / QPSK



Date: 4 MAY 2020 12:12:29

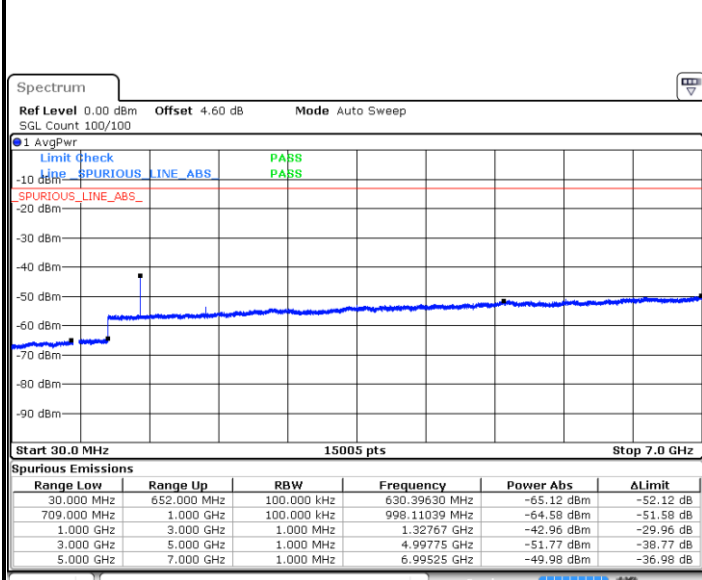
Highest Channel / 16QAM



Date: 4 MAY 2020 12:12:57

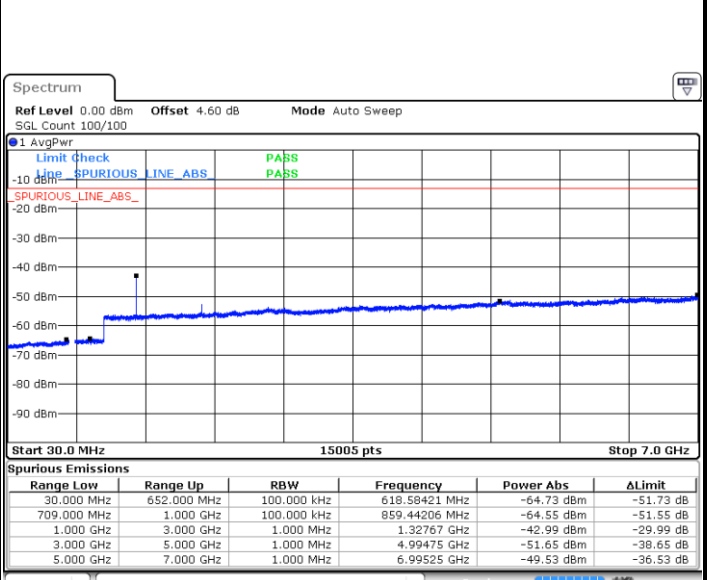
LTE Band 71 / 10MHz

Lowest Channel / QPSK



Date: 4 MAY 2020 12:33:28

Lowest Channel / 16QAM

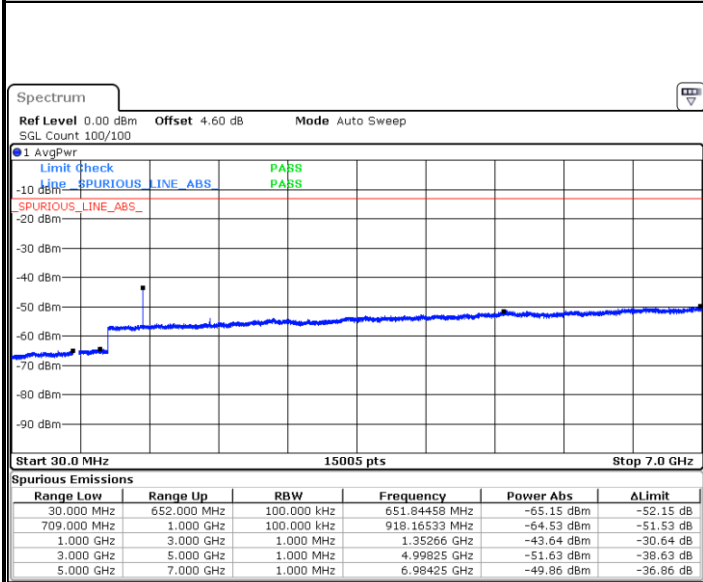


Date: 4 MAY 2020 12:31:19



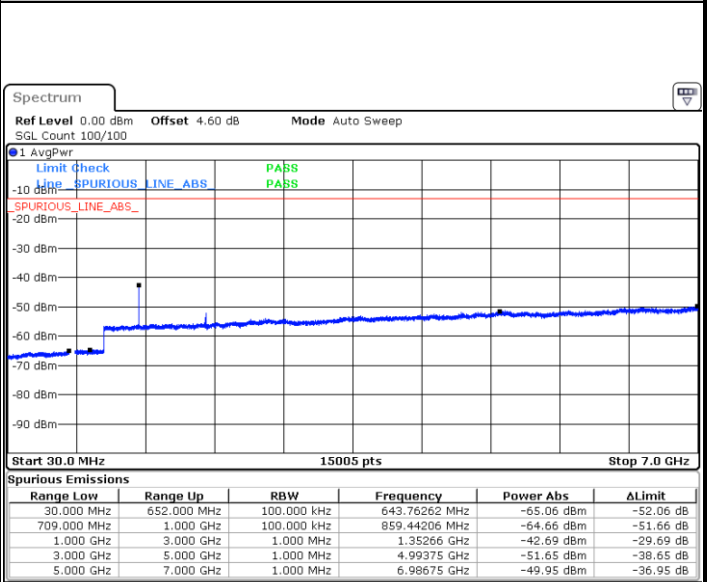
LTE Band 71 / 10MHz

Middle Channel / QPSK



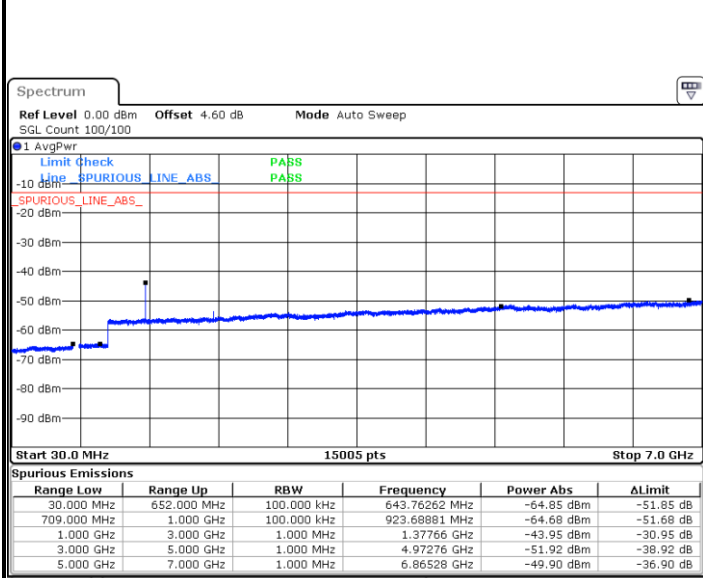
Date: 4 MAY.2020 12:25:36

Middle Channel / 16QAM



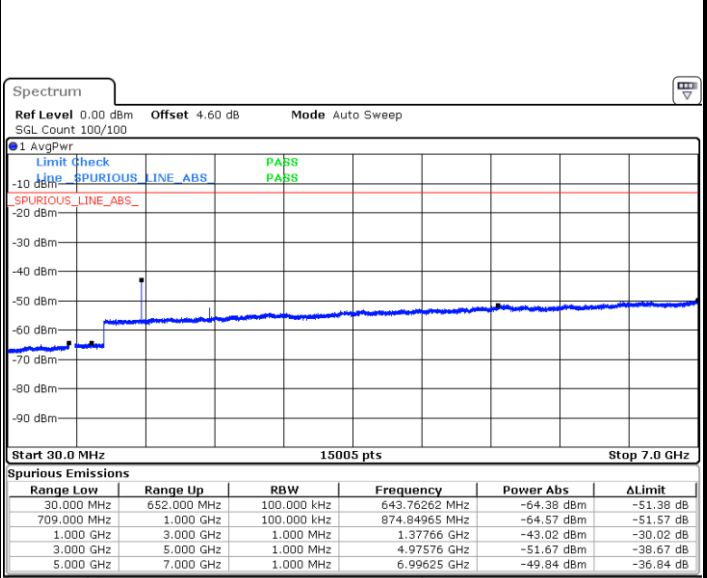
Date: 4 MAY.2020 12:26:43

Highest Channel / QPSK



Date: 4 MAY.2020 12:51:30

Highest Channel / 16QAM



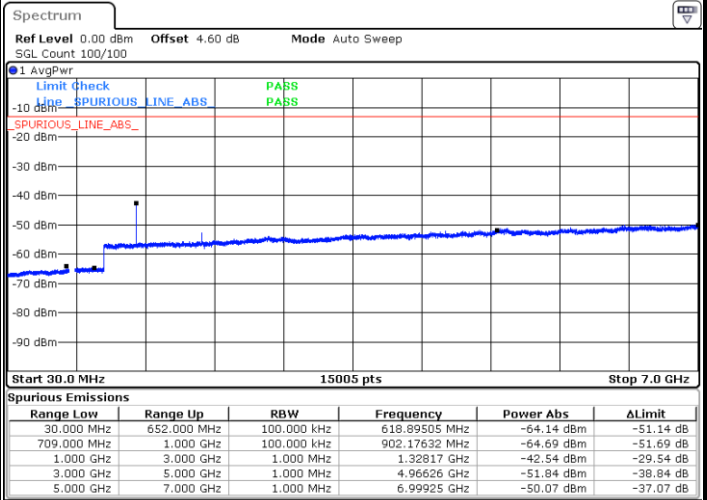
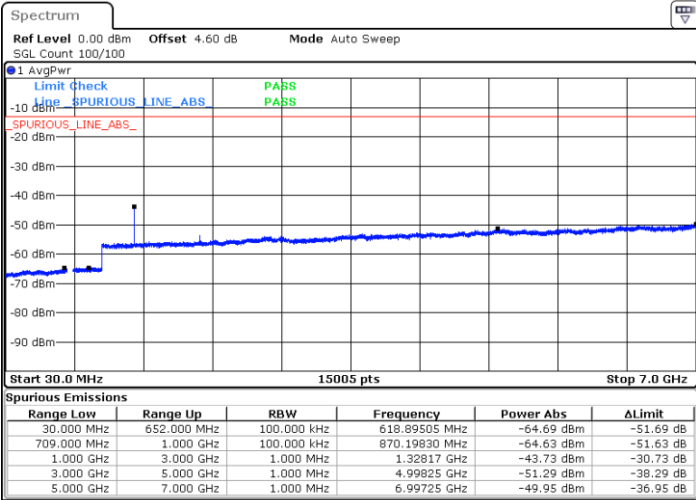
Date: 4 MAY.2020 12:52:59



LTE Band 71 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

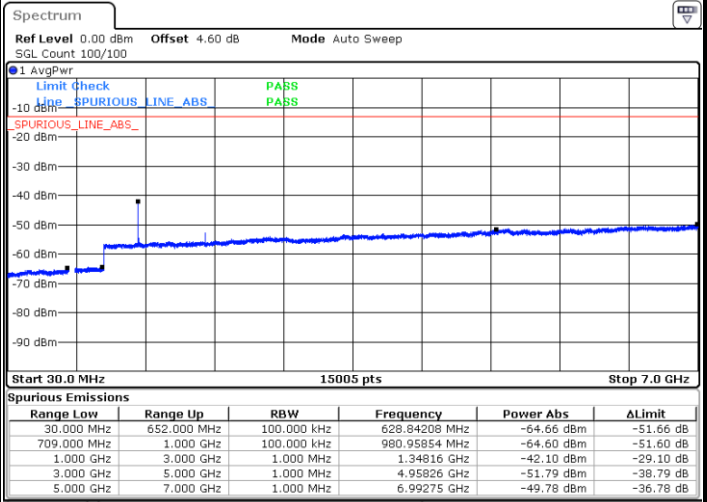
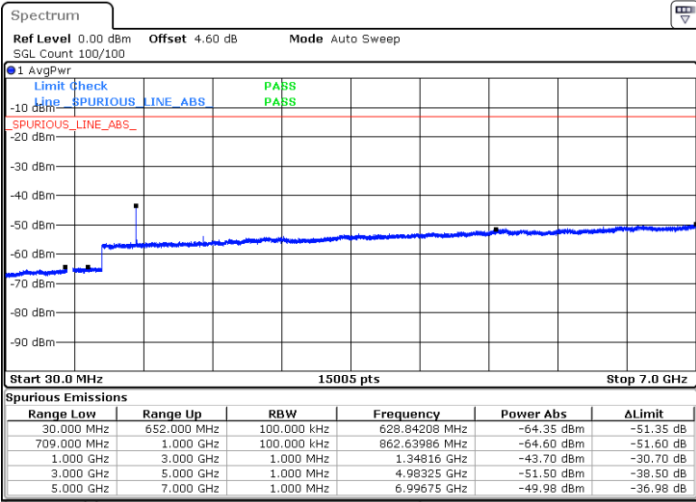


Date: 4 MAY.2020 14:09:51

Date: 4 MAY.2020 14:12:15

Middle Channel / QPSK

Middle Channel / 16QAM



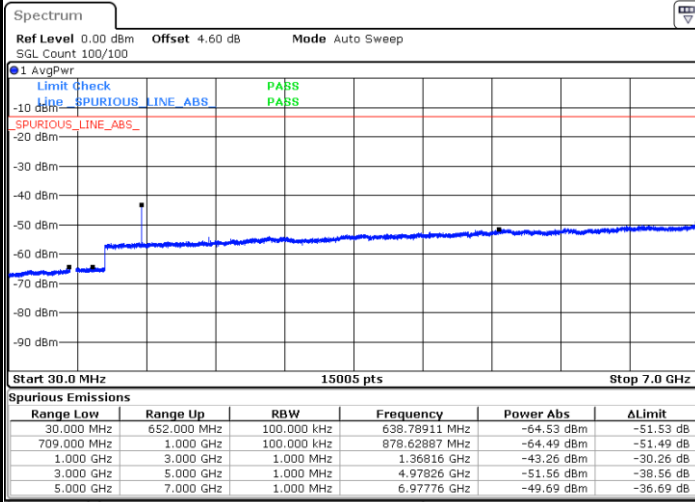
Date: 4 MAY.2020 14:09:24

Date: 4 MAY.2020 14:09:01



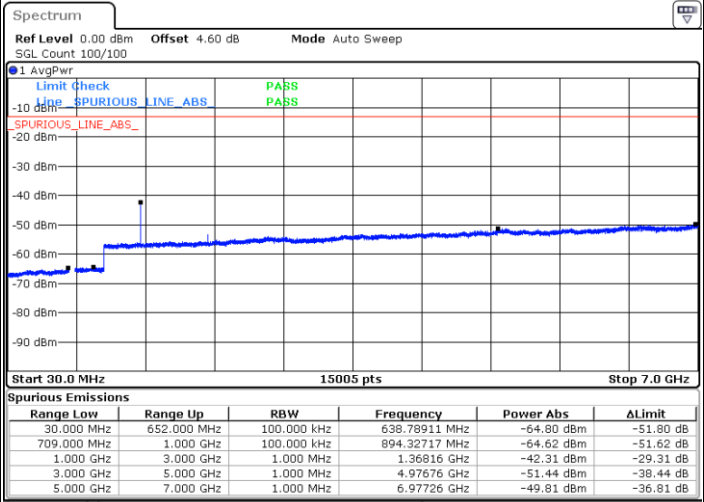
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 4 MAY 2020 15:00:23

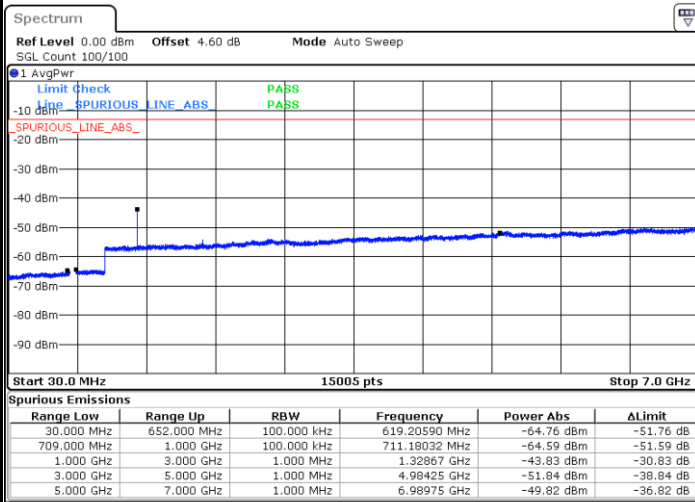
Highest Channel / 16QAM



Date: 4 MAY 2020 15:00:00

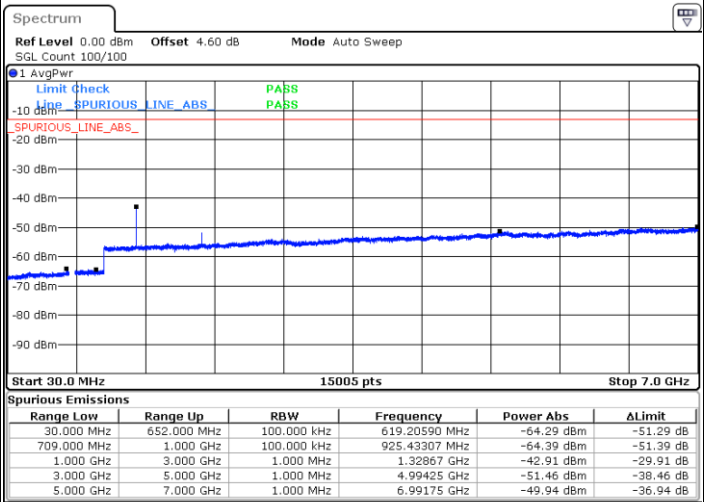
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 4 MAY 2020 15:22:04

Lowest Channel / 16QAM



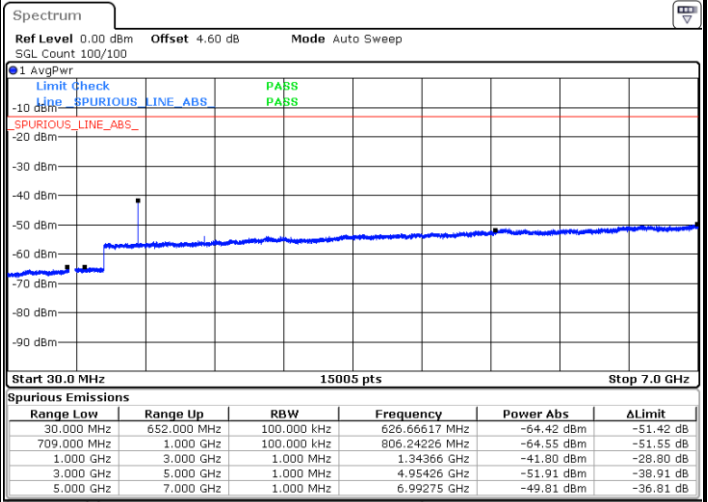
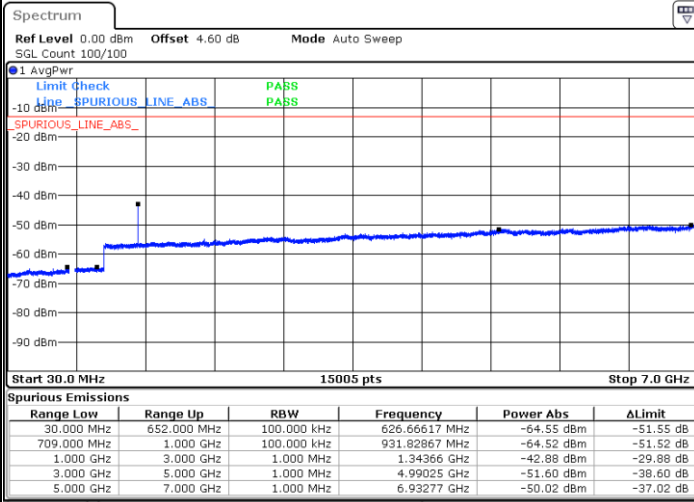
Date: 4 MAY 2020 15:16:46



LTE Band 71 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

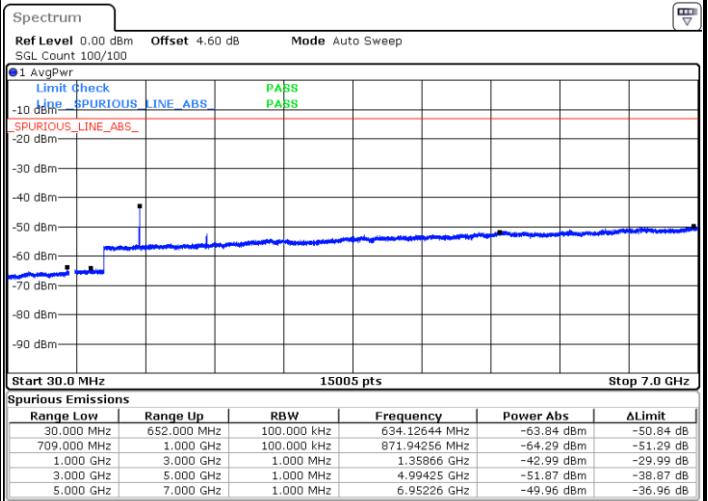
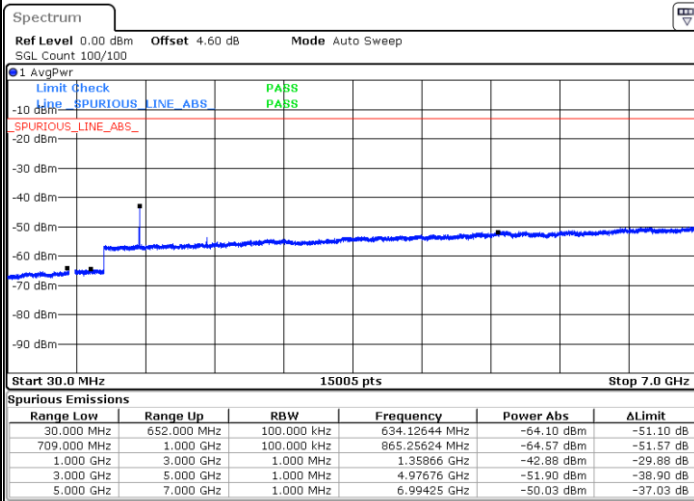


Date: 4 MAY.2020 15:08:13

Date: 4 MAY.2020 15:08:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 MAY.2020 15:52:13

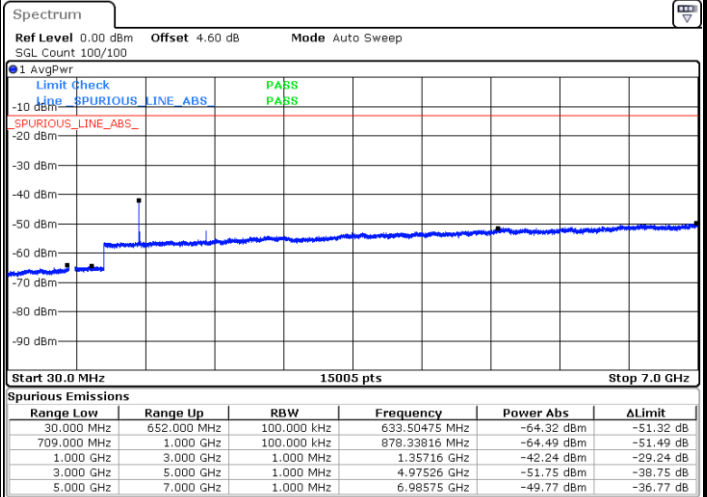
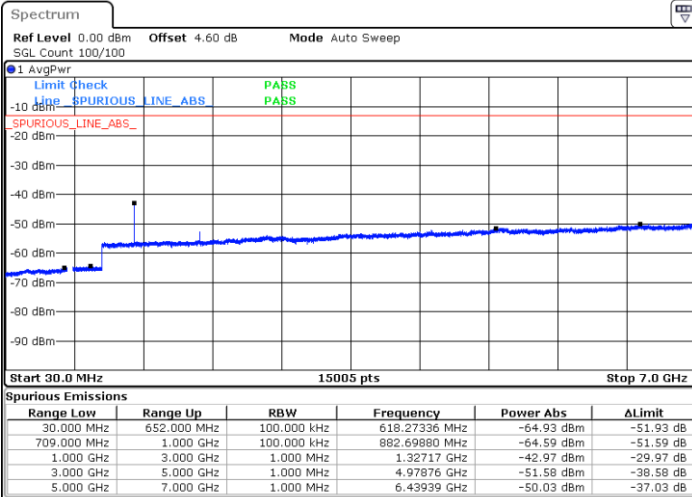
Date: 4 MAY.2020 15:51:21



LTE Band 71 / 5MHz

Lowest Channel / 64QAM

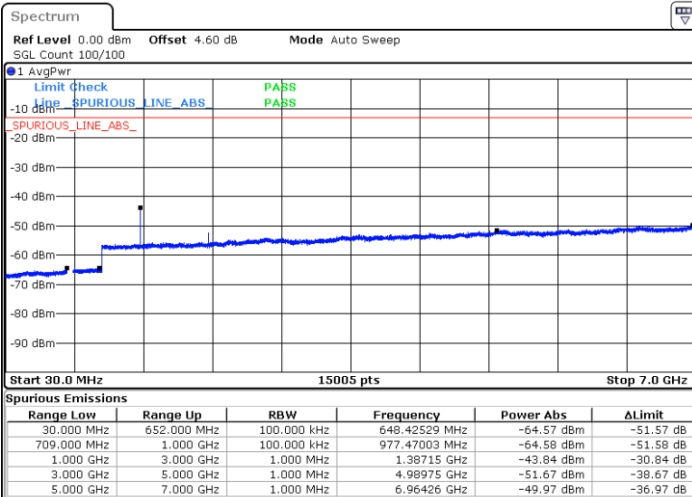
Middle Channel / 64QAM



Date: 4 MAY.2020 12:06:15

Date: 4 MAY.2020 11:46:01

Highest Channel / 64QAM



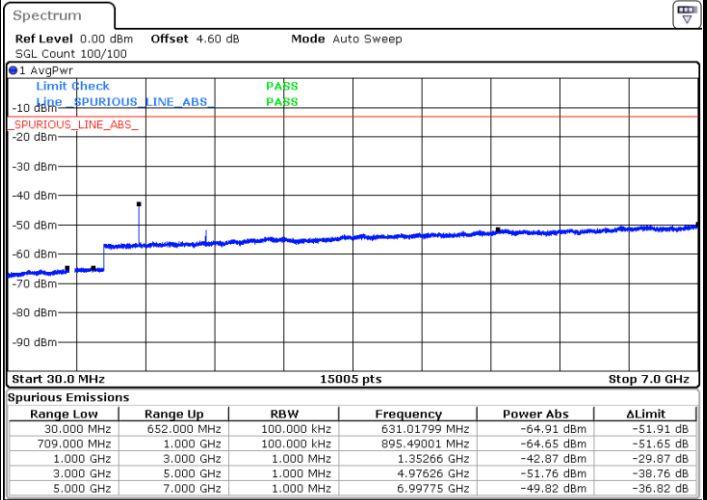
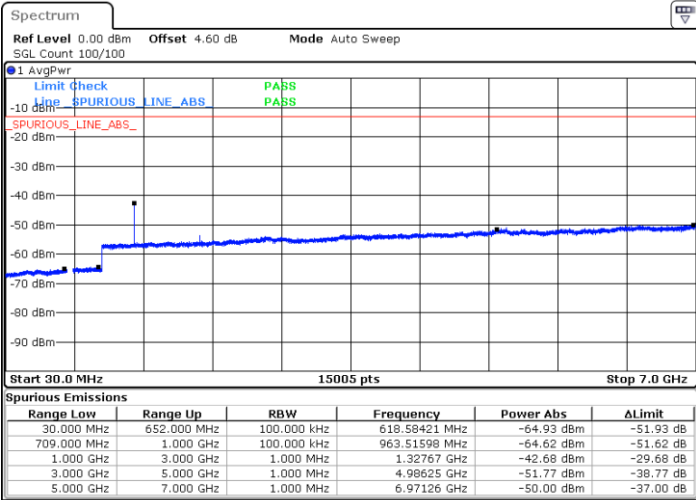
Date: 4 MAY.2020 12:13:18



LTE Band 71 / 10MHz

Lowest Channel / 64QAM

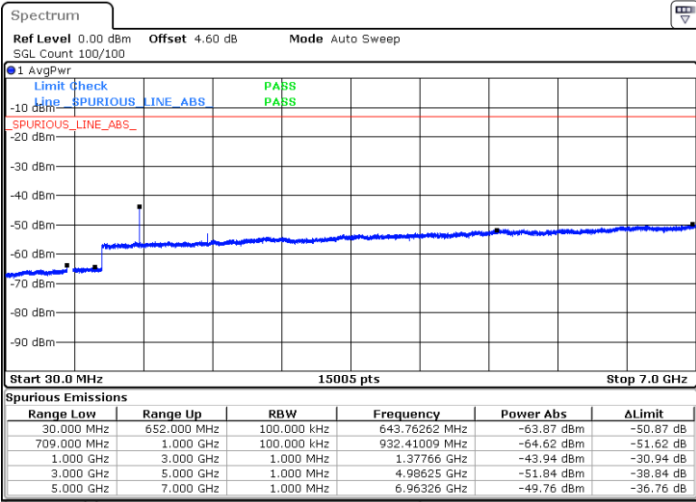
Middle Channel / 64QAM



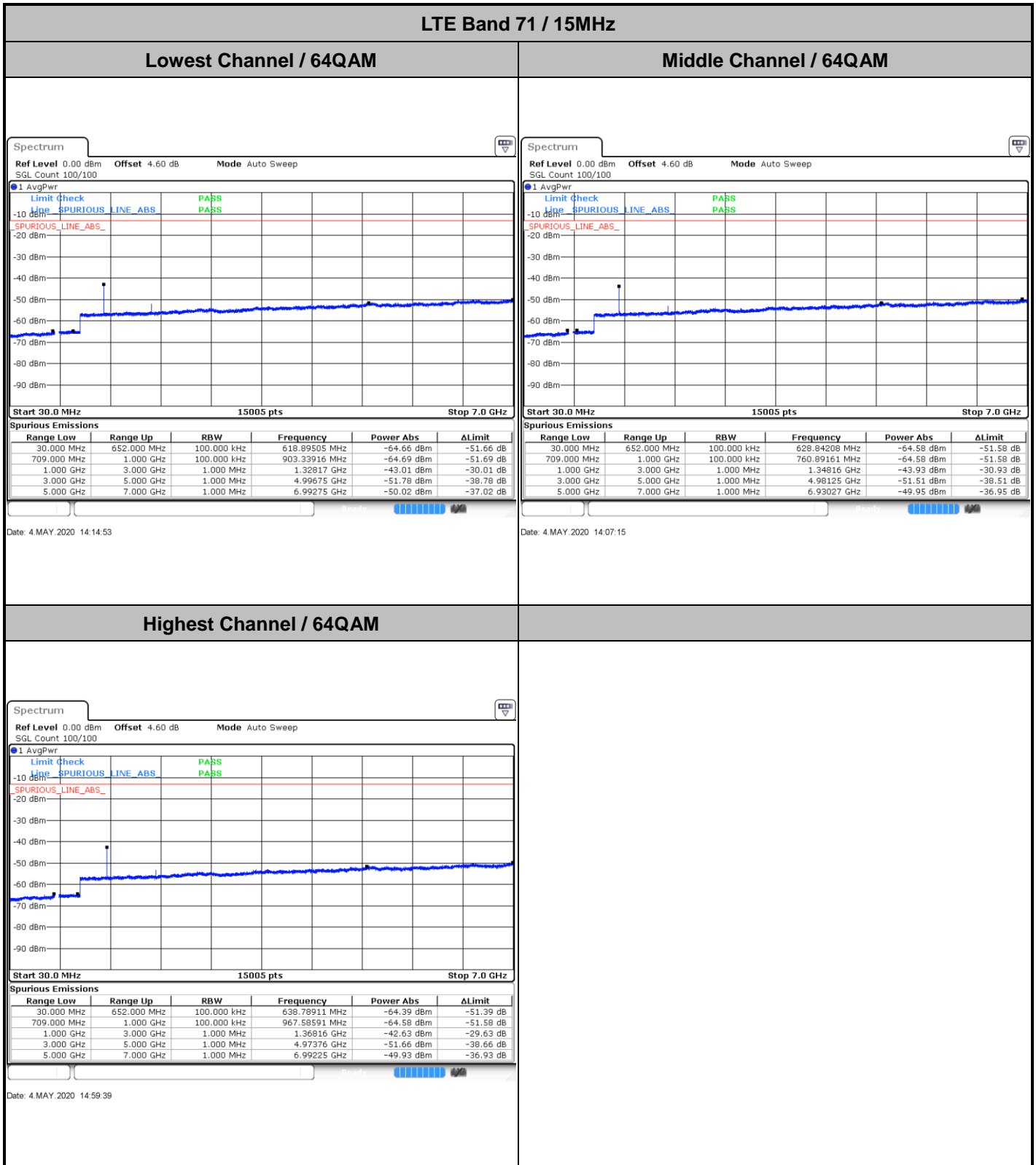
Date: 4 MAY.2020 12:29:11

Date: 4 MAY.2020 12:28:23

Highest Channel / 64QAM



Date: 4 MAY.2020 13:59:01

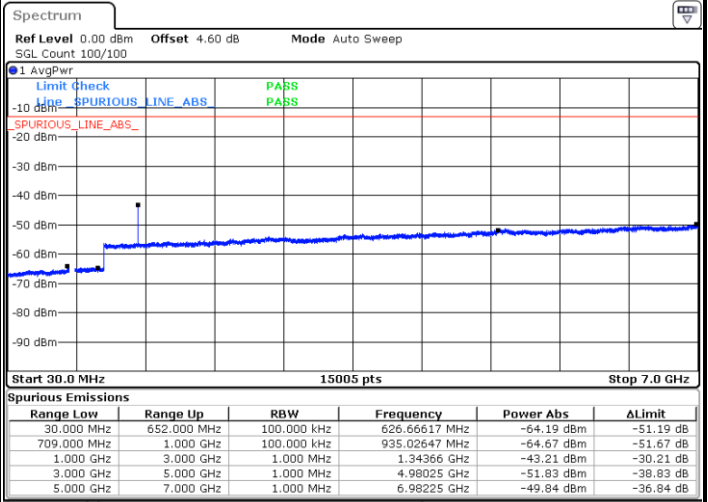
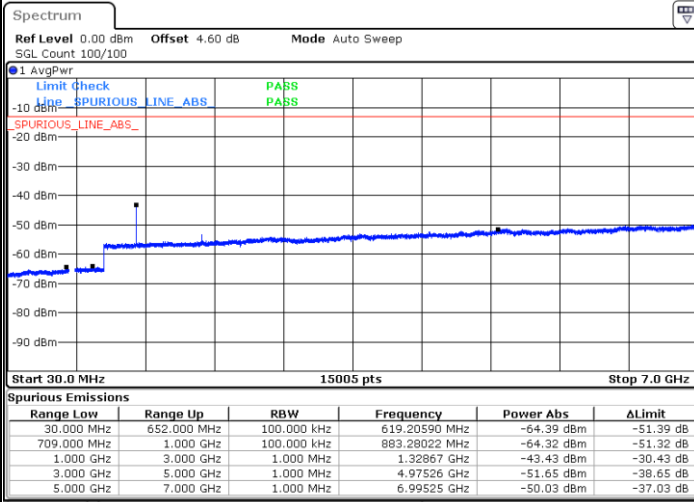




LTE Band 71 / 20MHz

Lowest Channel / 64QAM

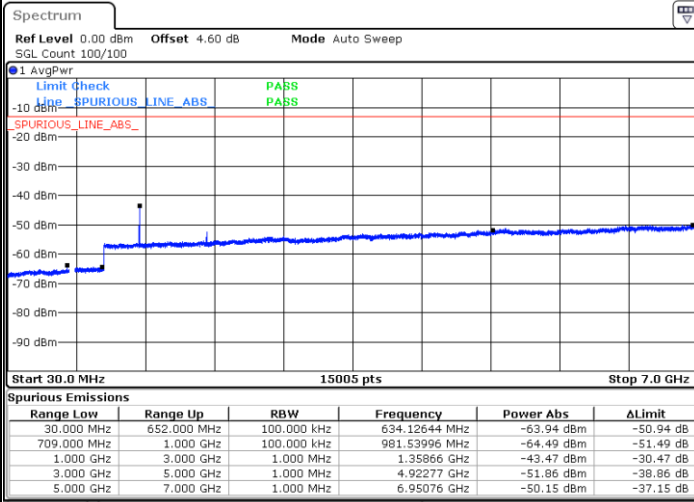
Middle Channel / 64QAM



Date: 4 MAY 2020 15:09:58

Date: 4 MAY 2020 15:08:55

Highest Channel / 64QAM



Date: 4 MAY 2020 15:50:52



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	0.0025	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Radiated Spurious Emission

LTE Band 13 / 5MHz / 16QAM								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1554	-67.04	-42.15	-24.89	-69.67	1.09	5.87	H
	2332.02	-65.58	-13	-52.58	-67.98	1.37	5.92	H
	3108	-62.97	-13	-49.97	-66.86	1.64	7.68	H
	1554.68	-66.93	-42.15	-24.78	-69.56	1.09	5.87	V
	2332	-65.05	-13	-52.05	-67.45	1.37	5.92	V
	3108	-62.98	-13	-49.98	-66.87	1.64	7.68	V
Middle	1560	-67.44	-42.15	-25.29	-70.07	1.09	5.87	H
	2339.52	-65.07	-13	-52.07	-67.47	1.37	5.92	H
	3120	-63.16	-13	-50.16	-67.05	1.64	7.68	H
	1560	-66.86	-42.15	-24.71	-69.49	1.09	5.87	V
	2339.52	-64.85	-13	-51.85	-67.25	1.37	5.92	V
	3120	-62.74	-13	-49.74	-66.63	1.64	7.68	V
Highest	1564	-67.09	-42.15	-24.94	-69.72	1.09	5.87	H
	2347.02	-65.33	-13	-52.33	-67.73	1.37	5.92	H
	3132	-63.10	-13	-50.10	-66.99	1.64	7.68	H
	1564.48	-66.91	-42.15	-24.76	-69.54	1.09	5.87	V
	2348	-65.15	-13	-52.15	-67.55	1.37	5.92	V
	3132	-63.10	-13	-50.10	-66.99	1.64	7.68	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1556	-67.35	-42.15	-25.20	-69.98	1.09	5.87	H
	2332	-65.61	-13	-52.61	-68.01	1.37	5.92	H
	3110	-63.04	-13	-50.04	-66.93	1.64	7.68	H
	1556	-67.09	-42.15	-24.94	-69.72	1.09	5.87	V
	2332	-65.14	-13	-52.14	-67.54	1.37	5.92	V
	3110	-63.07	-13	-50.07	-66.96	1.64	7.68	V

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



LTE Band 13 / 5MHz / 16QAM + WLAN 2.4GHz 802.11b CH01								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-67.05	-42.15	-24.90	-69.68	1.09	5.87	H
	2340	-55.52	-13	-42.52	-57.92	1.37	5.92	H
	3120	-62.23	-13	-49.23	-66.12	1.64	7.68	H
	1559.5	-66.79	-42.15	-24.64	-69.42	1.09	5.87	V
	2340	-54.70	-13	-41.70	-57.10	1.37	5.92	V
	3120	-62.61	-13	-49.61	-66.50	1.64	7.68	V

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

LTE Band 25 / 20MHz / QPSK								
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)
Lowest	3702	-56.68	-13	-43.68	-68.94	2.64	14.90	H
	5553.27	-54.61	-13	-41.61	-66.47	2.94	14.80	H
	7404	-49.20	-13	-36.20	-58.97	3.39	13.16	H
	3702	-54.90	-13	-41.90	-67.16	2.64	14.90	V
	5553	-54.16	-13	-41.16	-66.02	2.94	14.80	V
	7404	-48.76	-13	-35.76	-58.53	3.39	13.16	V
Middle	3747	-55.82	-13	-42.82	-68.08	2.64	14.90	H
	5620.77	-53.92	-13	-40.92	-65.78	2.94	14.80	H
	7500	-48.32	-13	-35.32	-58.09	3.39	13.16	H
	3747	-53.57	-13	-40.57	-65.83	2.64	14.90	V
	5622	-53.90	-13	-40.90	-65.76	2.94	14.80	V
	7500	-49.00	-13	-36.00	-58.77	3.39	13.16	V
Highest	3792	-50.87	-13	-37.87	-63.13	2.64	14.90	H
	5688	-53.98	-13	-40.98	-65.84	2.94	14.80	H
	7584	-48.25	-13	-35.25	-58.02	3.39	13.16	H
	3792	-50.71	-13	-37.71	-62.97	2.64	14.90	V
	5688	-53.97	-13	-40.97	-65.83	2.94	14.80	V
	7584	-48.58	-13	-35.58	-58.35	3.39	13.16	V

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



LTE Band 41C / 20MHz+20MHz / QPSK								
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)
Lowest	4996	-66.77	-25	-41.77	-76.98	3.03	13.24	H
	7491.27	-61.76	-25	-36.76	-71.21	3.56	13.01	H
	9990	-59.12	-25	-34.12	-68.64	3.92	13.44	H
	4994.18	-66.50	-25	-41.50	-76.71	3.03	13.24	V
	7492	-61.50	-25	-36.50	-70.95	3.56	13.01	V
	9990	-59.31	-25	-34.31	-68.83	3.92	13.44	V
Middle	5148	-66.26	-25	-41.26	-76.47	3.03	13.24	H
	7724	-61.37	-25	-36.37	-70.82	3.56	13.01	H
	10300	-59.04	-25	-34.04	-68.56	3.92	13.44	H
	5148	-66.38	-25	-41.38	-76.59	3.03	13.24	V
	7724	-60.96	-25	-35.96	-70.41	3.56	13.01	V
	10300	-58.64	-25	-33.64	-68.16	3.92	13.44	V
Highest	5304	-66.60	-25	-41.60	-76.81	3.03	13.24	H
	7953.87	-61.15	-25	-36.15	-70.60	3.56	13.01	H
	10610	-58.17	-25	-33.17	-67.69	3.92	13.44	H
	5302.58	-66.33	-25	-41.33	-76.54	3.03	13.24	V
	7952	-60.84	-25	-35.84	-70.29	3.56	13.01	V
	10610	-58.27	-25	-33.27	-67.79	3.92	13.44	V

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



LTE Band 41 / 20MHz / QPSK								
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)
Lowest	4996	-68.08	-25	-43.08	-78.29	3.03	13.24	H
	7492	-62.13	-25	-37.13	-71.58	3.56	13.01	H
	9990	-59.65	-25	-34.65	-69.17	3.92	13.44	H
	4996	-68.02	-25	-43.02	-78.23	3.03	13.24	V
	7492	-62.03	-25	-37.03	-71.48	3.56	13.01	V
	9990	-59.57	-25	-34.57	-69.09	3.92	13.44	V
Middle	5168	-66.16	-25	-41.16	-76.37	3.03	13.24	H
	7752	-62.18	-25	-37.18	-71.63	3.56	13.01	H
	10340	-59.20	-25	-34.20	-68.72	3.92	13.44	H
	5168	-66.82	-25	-41.82	-77.03	3.03	13.24	V
	7752	-61.56	-25	-36.56	-71.01	3.56	13.01	V
	10340	-59.45	-25	-34.45	-68.97	3.92	13.44	V
Highest	5344	-67.09	-25	-42.09	-77.30	3.03	13.24	H
	8010	-61.13	-25	-36.13	-70.58	3.56	13.01	H
	10680	-58.70	-25	-33.70	-68.22	3.92	13.44	H
	5344	-67.15	-25	-42.15	-77.36	3.03	13.24	V
	8010	-61.14	-25	-36.14	-70.59	3.56	13.01	V
	10680	-58.18	-25	-33.18	-67.70	3.92	13.44	V

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



LTE Band 71 / 20MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-68.35	-13	-55.35	-70.10	1.02	4.92	H
	1992.27	-66.53	-13	-53.53	-68.50	1.27	5.39	H
	2656	-64.21	-13	-51.21	-67.14	1.49	6.57	H
	1328.18	-67.87	-13	-54.87	-69.62	1.02	4.92	V
	1992	-66.01	-13	-53.01	-67.98	1.27	5.39	V
	2656	-63.95	-13	-50.95	-66.88	1.49	6.57	V
Middle	1348	-67.48	-13	-54.48	-69.23	1.02	4.92	H
	2022	-66.40	-13	-53.40	-68.37	1.27	5.39	H
	2696	-63.62	-13	-50.62	-66.55	1.49	6.57	H
	1348	-67.53	-13	-54.53	-69.28	1.02	4.92	V
	2022	-65.74	-13	-52.74	-67.71	1.27	5.39	V
	2696	-63.84	-13	-50.84	-66.77	1.49	6.57	V
Highest	1358	-67.94	-13	-54.94	-69.69	1.02	4.92	H
	2037.27	-66.33	-13	-53.33	-68.30	1.27	5.39	H
	2716	-63.72	-13	-50.72	-66.65	1.49	6.57	H
	1358.18	-67.38	-13	-54.38	-69.13	1.02	4.92	V
	2038	-65.61	-13	-52.61	-67.58	1.27	5.39	V
	2716	-63.78	-13	-50.78	-66.71	1.49	6.57	V

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