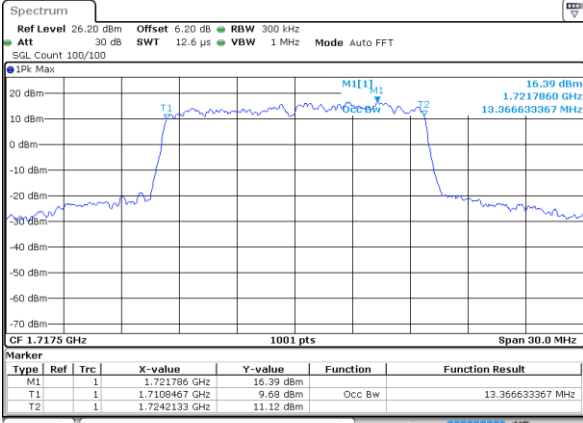




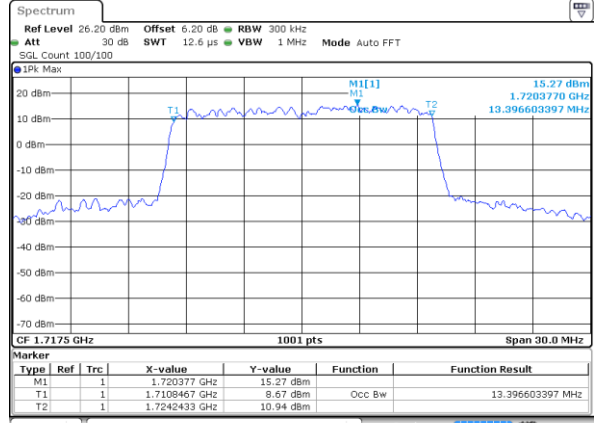
LTE Band 66

Lowest Channel / 15MHz / QPSK



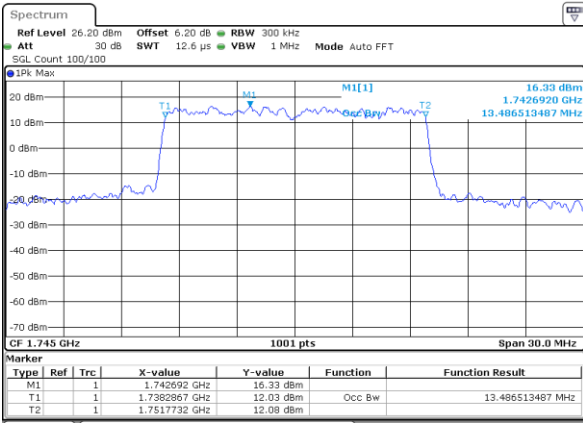
Date: 6 NOV 2019 04:19:27

Lowest Channel / 15MHz / 16QAM



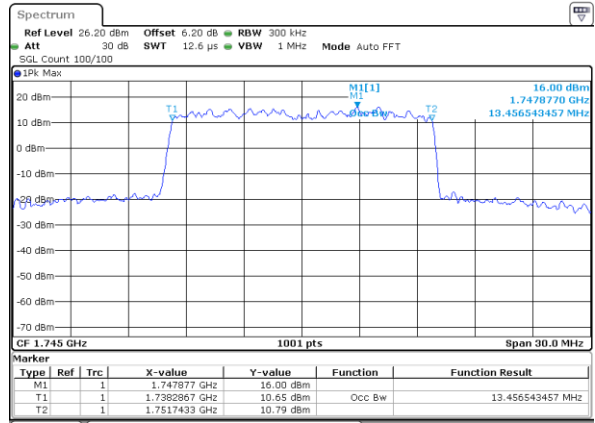
Date: 6 NOV 2019 04:19:59

Middle Channel / 15MHz / QPSK



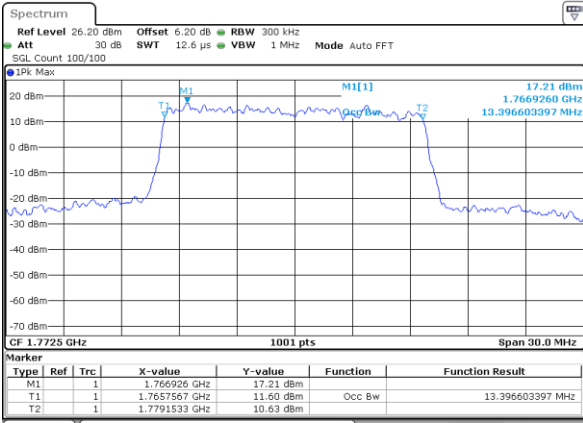
Date: 6 NOV 2019 04:26:14

Middle Channel / 15MHz / 16QAM



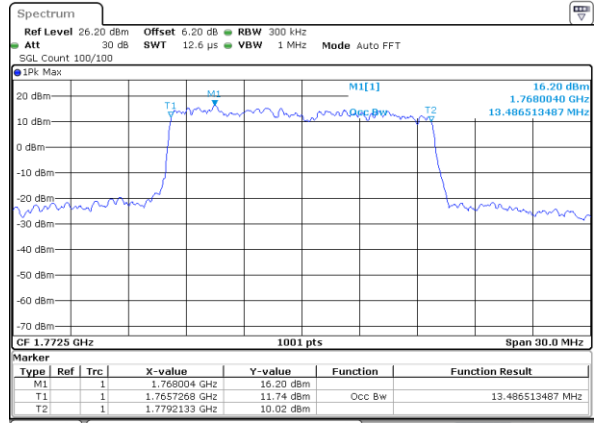
Date: 6 NOV 2019 04:25:53

Highest Channel / 15MHz / QPSK



Date: 6 NOV 2019 04:26:54

Highest Channel / 15MHz / 16QAM

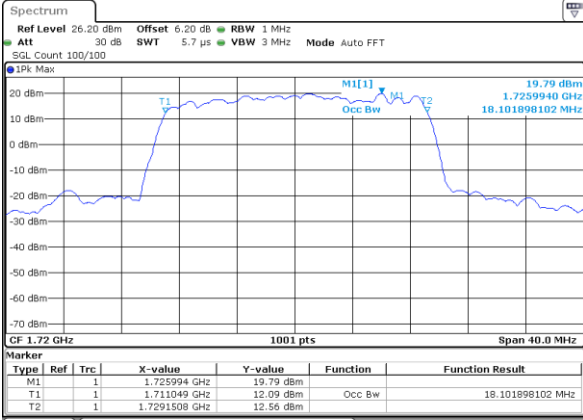


Date: 6 NOV 2019 04:27:20



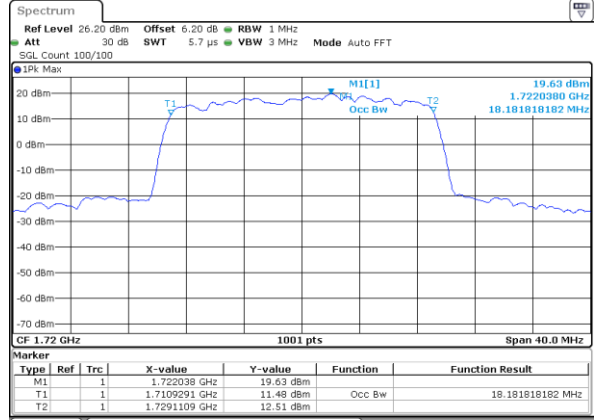
LTE Band 66

Lowest Channel / 20MHz / QPSK



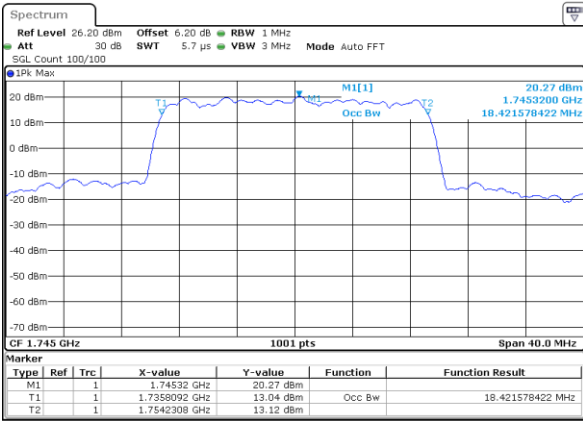
Date: 6 NOV 2019 04:34:22

Lowest Channel / 20MHz / 16QAM



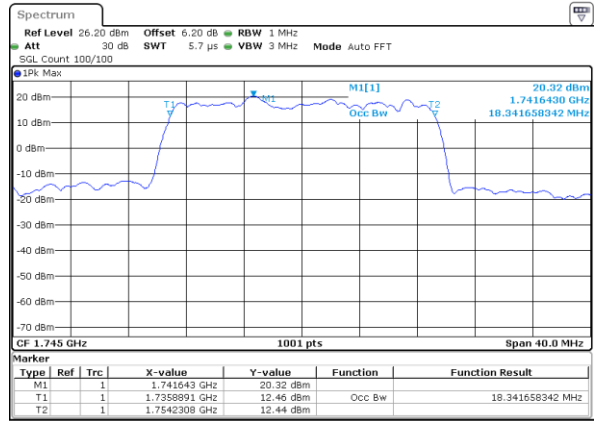
Date: 6 NOV 2019 04:34:47

Middle Channel / 20MHz / QPSK



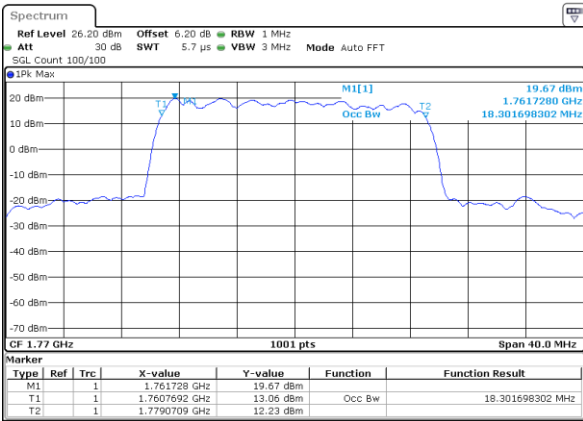
Date: 6 NOV 2019 04:39:02

Middle Channel / 20MHz / 16QAM



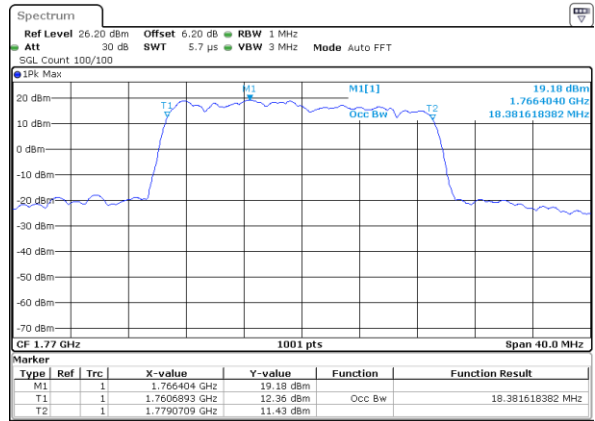
Date: 6 NOV 2019 04:38:44

Highest Channel / 20MHz / QPSK



Date: 6 NOV 2019 04:39:34

Highest Channel / 20MHz / 16QAM



Date: 6 NOV 2019 04:39:58

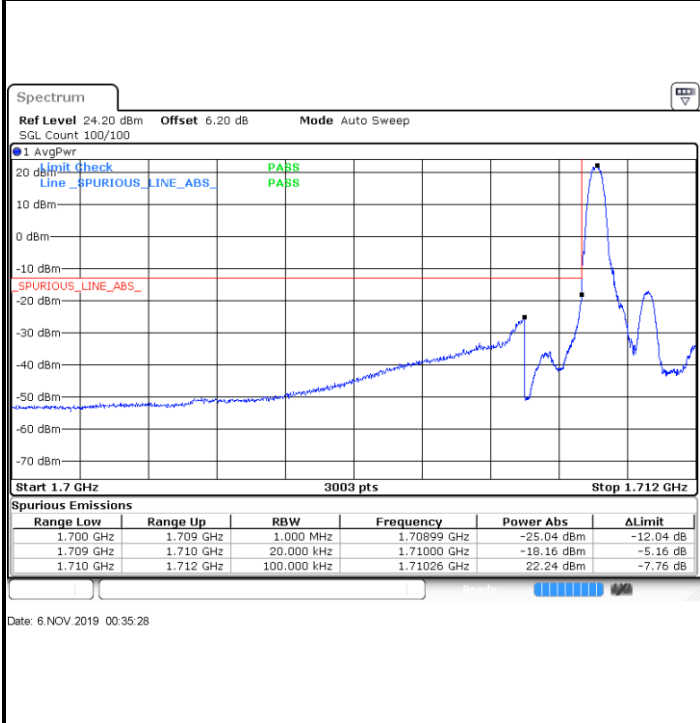


Conducted Band Edge

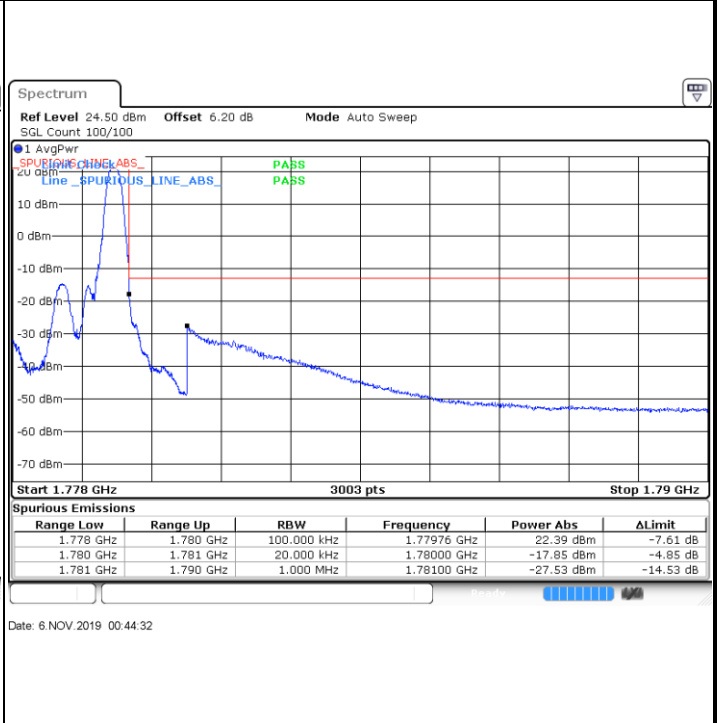


LTE Band 66 / 1.4MHz / QPSK

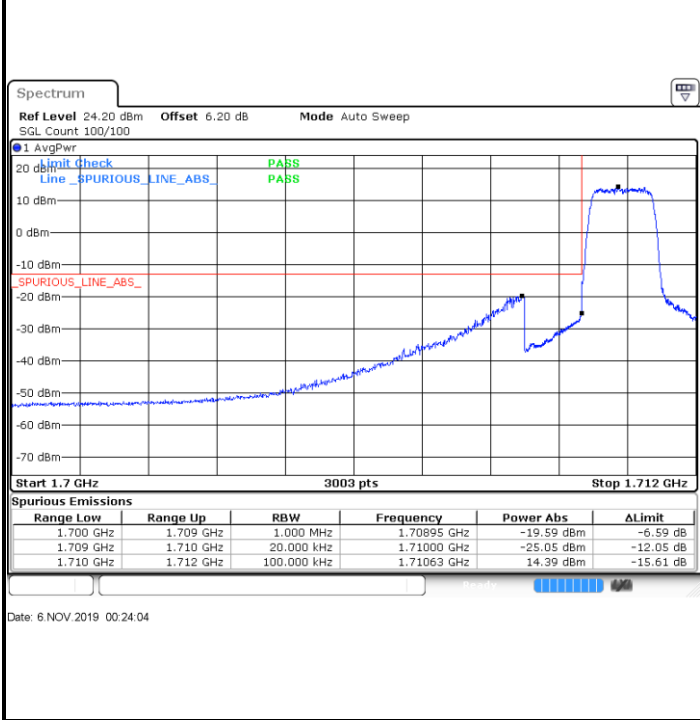
Lowest Band Edge / 1RB



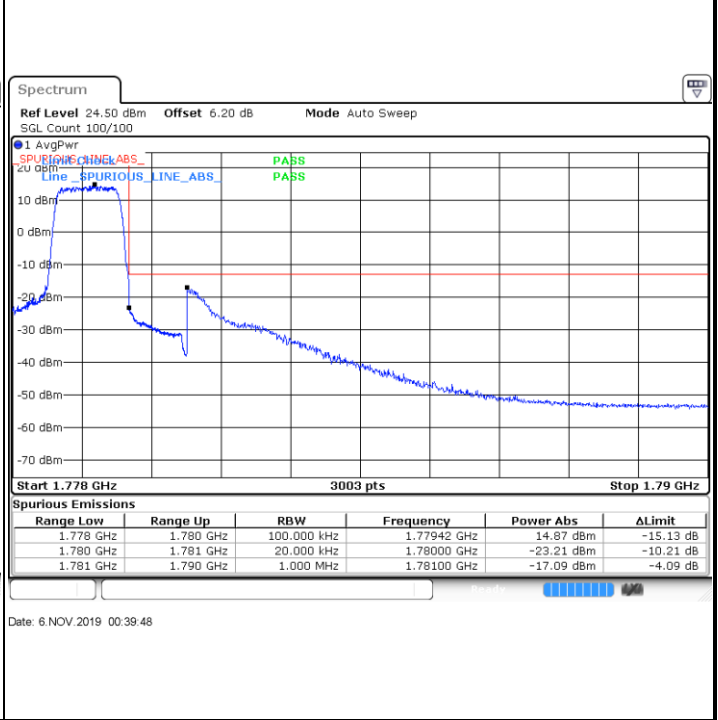
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



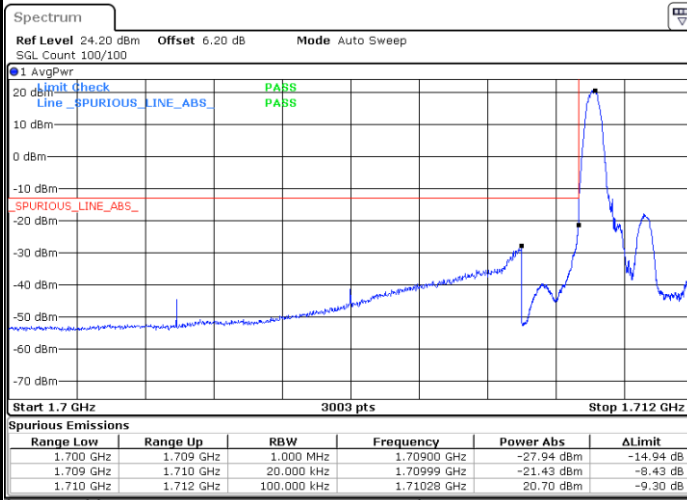
Highest Band Edge / Full RB





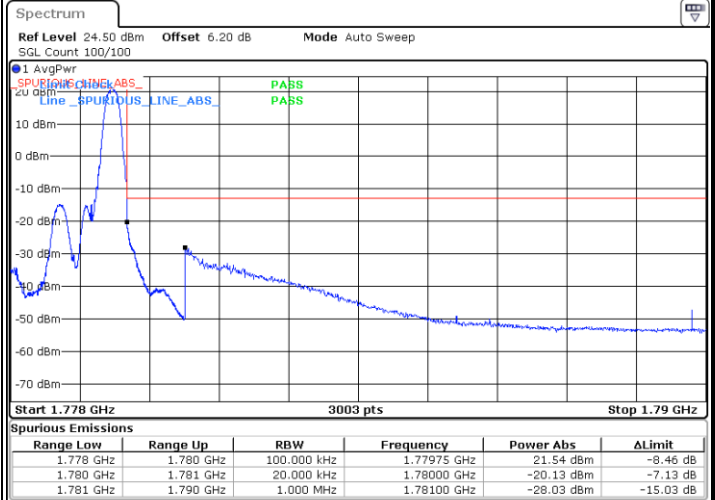
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



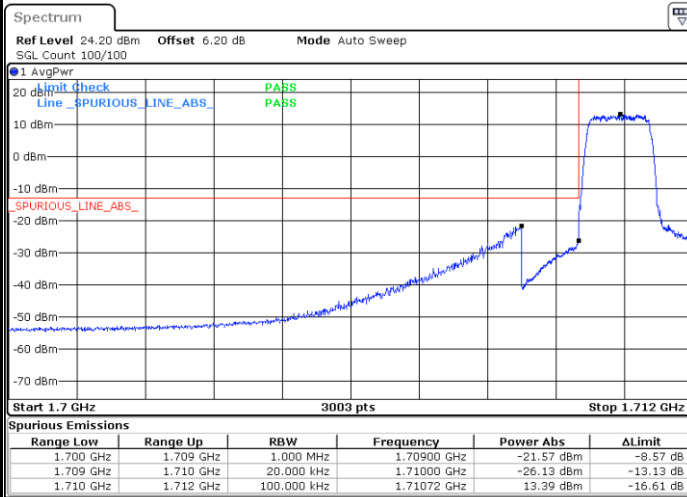
Date: 6 NOV. 2019 00:33:28

Highest Band Edge / 1 RB



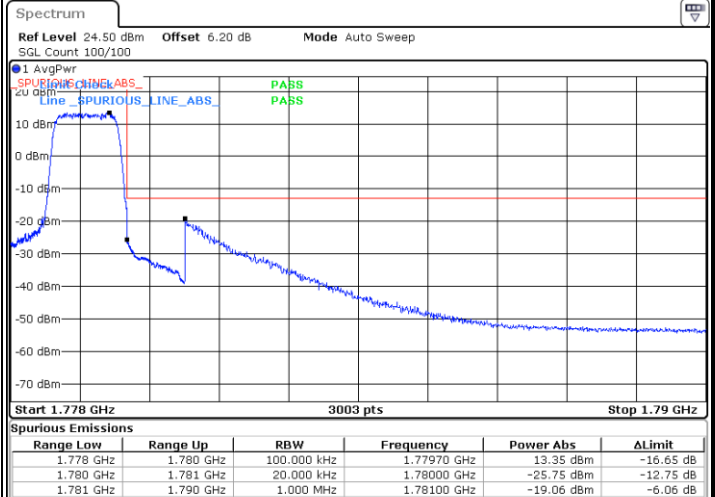
Date: 6 NOV. 2019 00:43:25

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 00:27:52

Highest Band Edge / Full RB

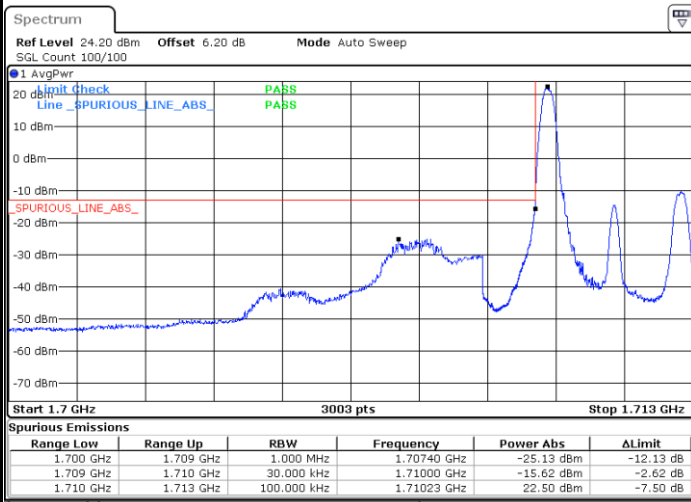


Date: 6 NOV. 2019 00:41:20



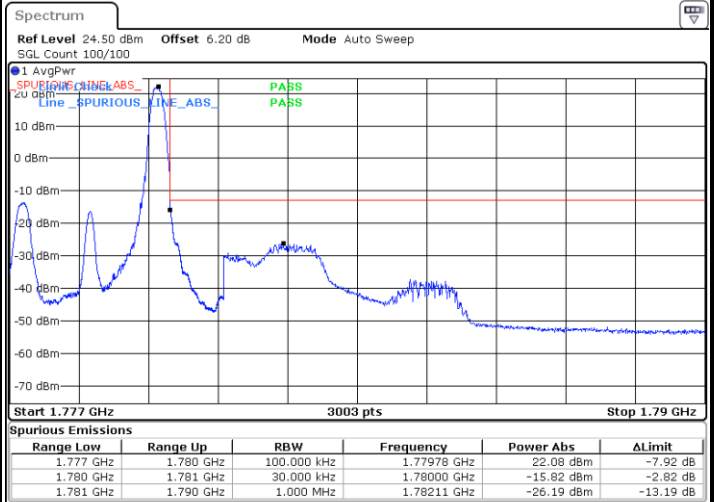
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



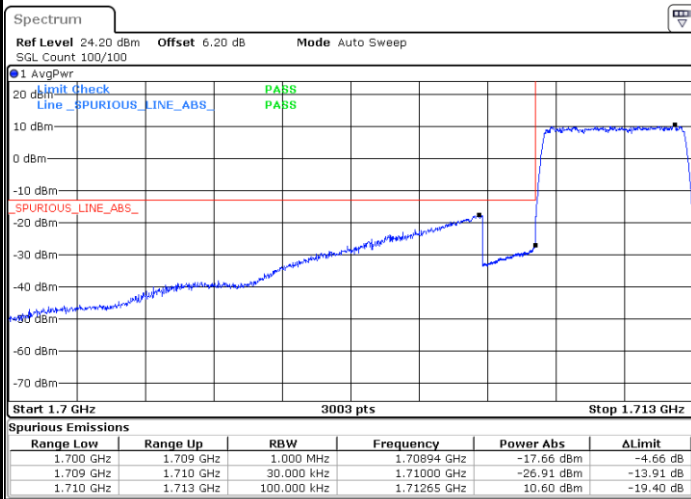
Date: 6 NOV. 2019 00:56:07

Highest Band Edge / 1 RB



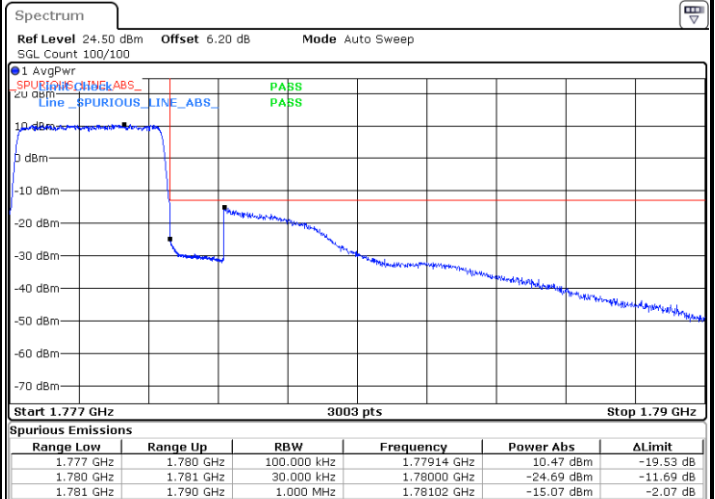
Date: 6 NOV. 2019 01:06:51

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 00:53:22

Highest Band Edge / Full RB

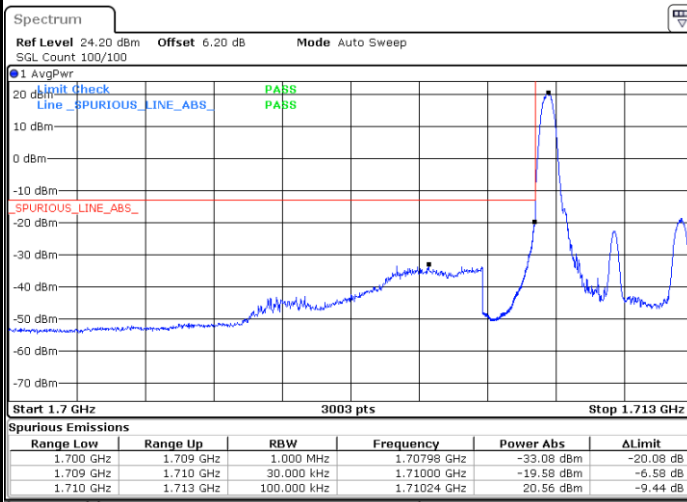


Date: 6 NOV. 2019 01:03:48



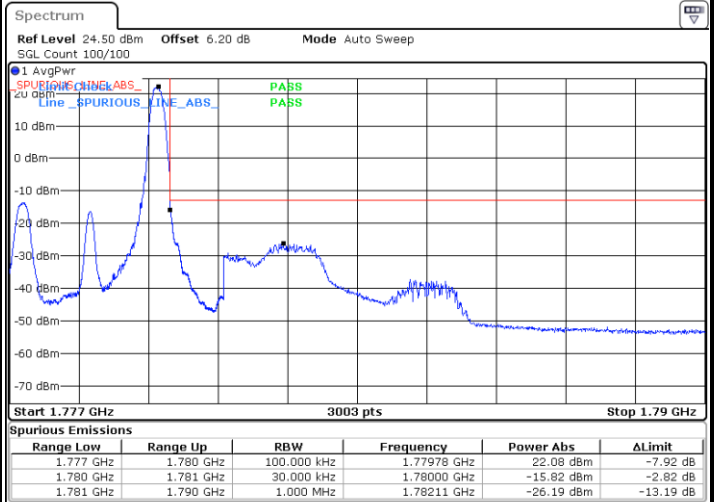
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



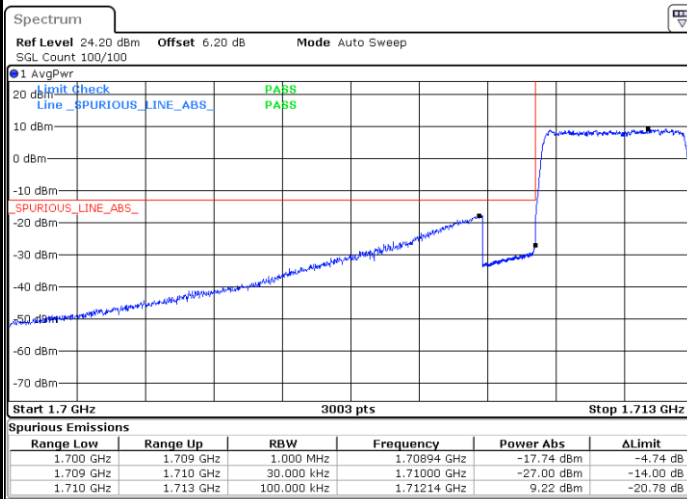
Date: 6 NOV. 2019 00:54:53

Highest Band Edge / 1 RB



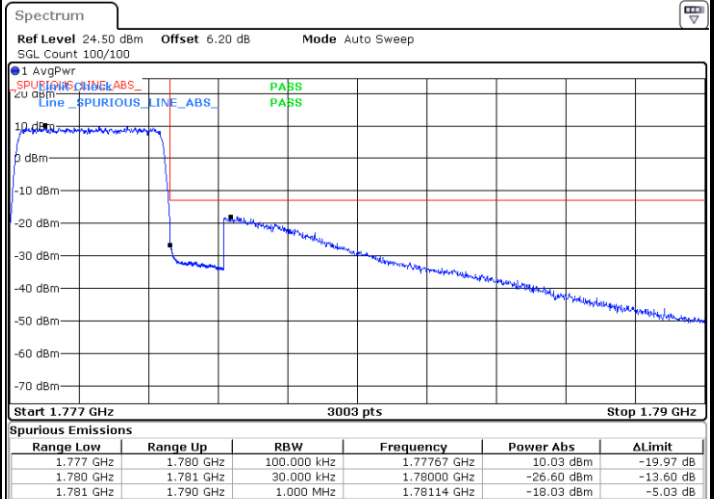
Date: 6 NOV. 2019 01:06:51

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 00:54:11

Highest Band Edge / Full RB

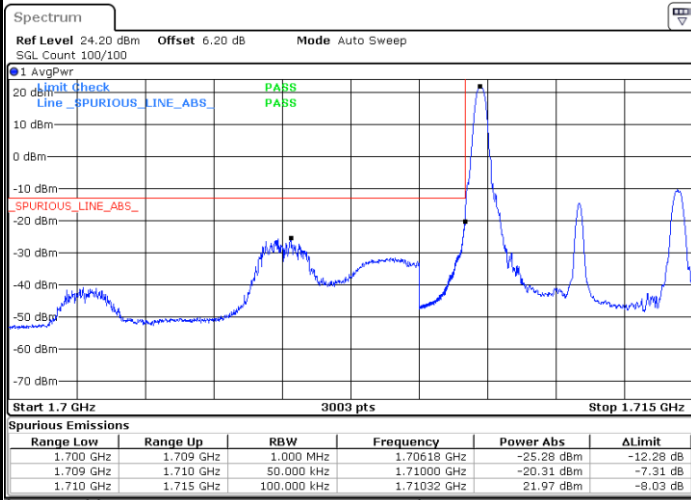


Date: 6 NOV. 2019 01:04:37



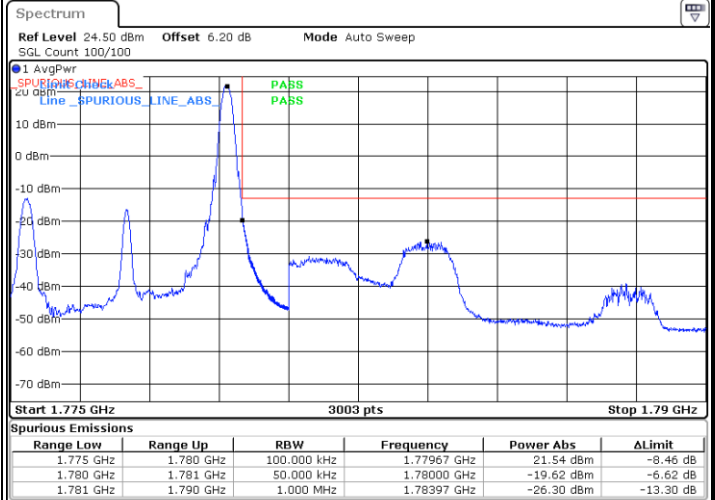
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



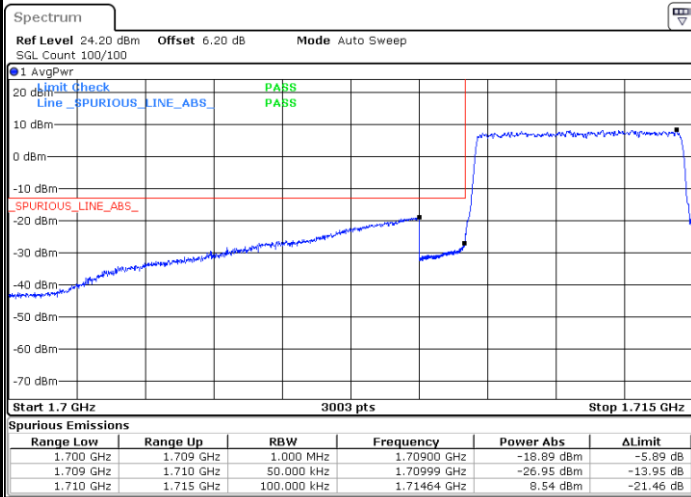
Date: 6 NOV. 2019 01:15:40

Highest Band Edge / 1 RB



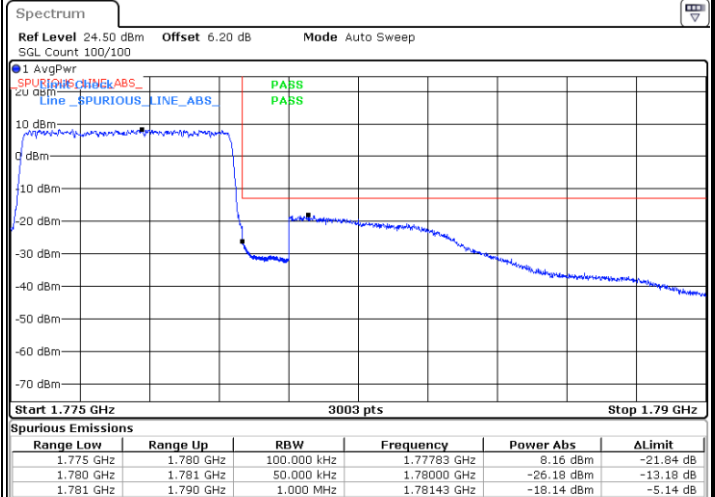
Date: 6 NOV. 2019 01:22:20

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 01:13:17

Highest Band Edge / Full RB

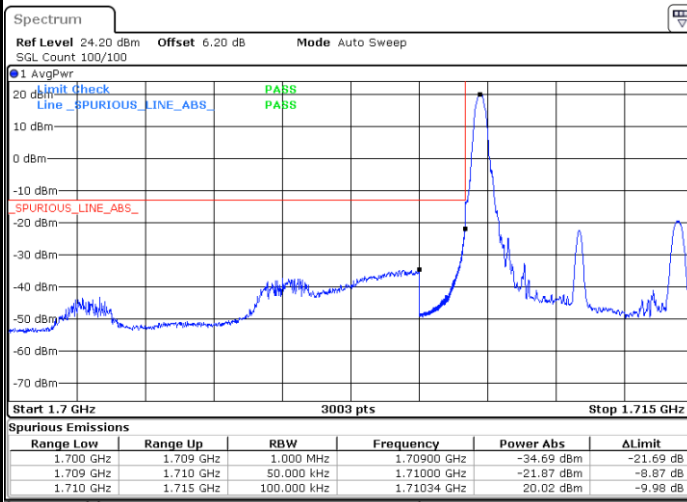


Date: 6 NOV. 2019 01:21:40



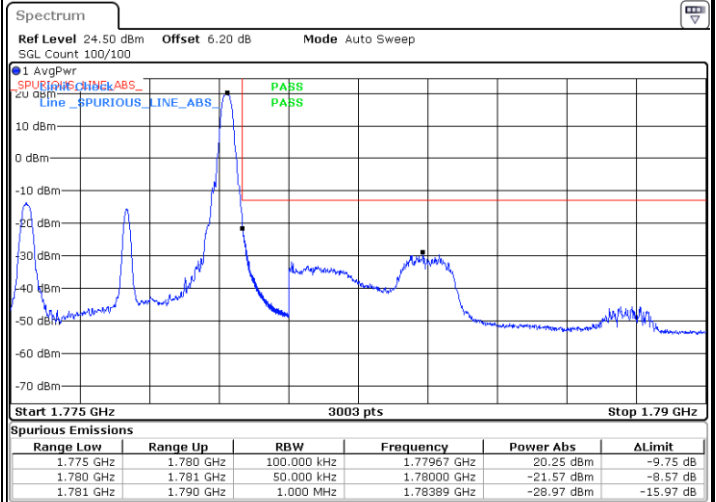
LTE Band 66 / 5MHz / 16QAM

Lowest Band Edge / 1RB



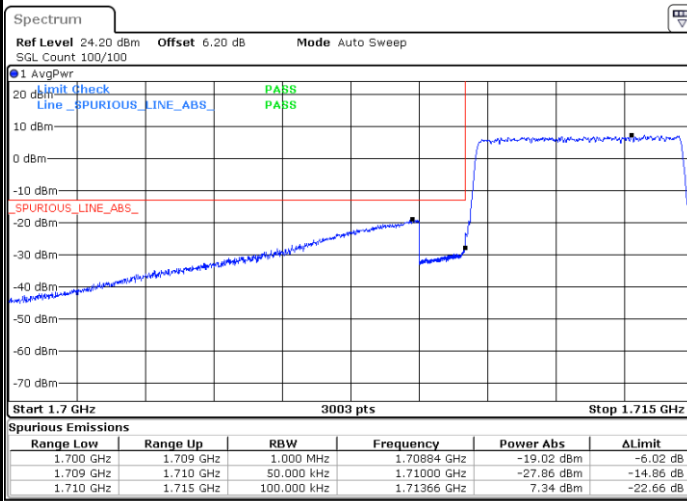
Date: 6 NOV. 2019 01:14:18

Highest Band Edge / 1 RB



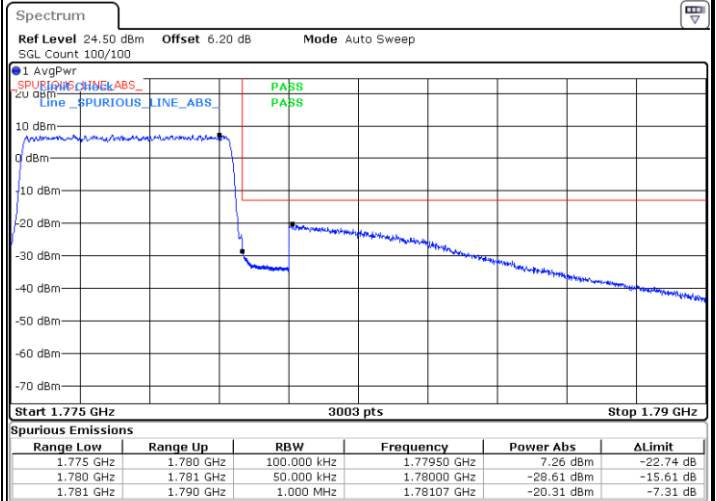
Date: 6 NOV. 2019 01:22:41

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 01:13:57

Highest Band Edge / Full RB

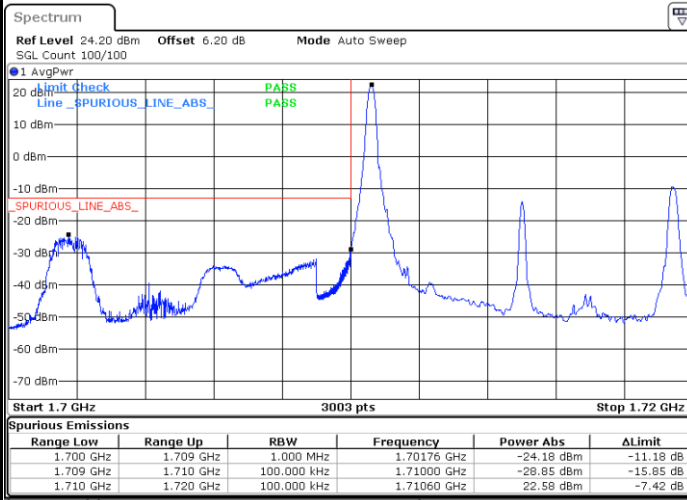


Date: 6 NOV. 2019 01:21:07



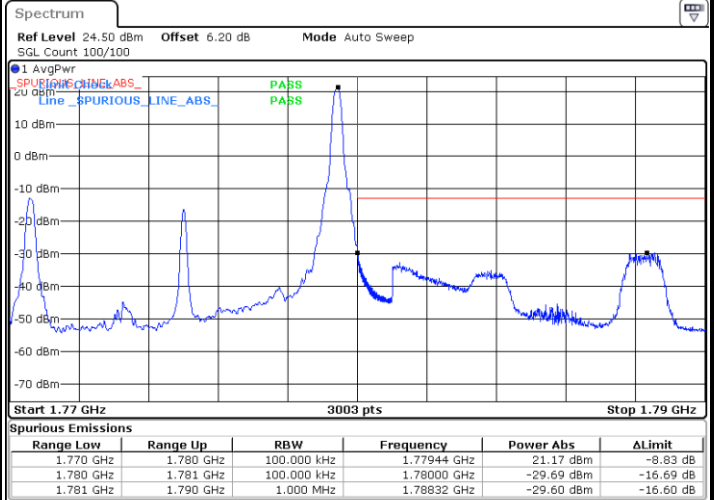
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



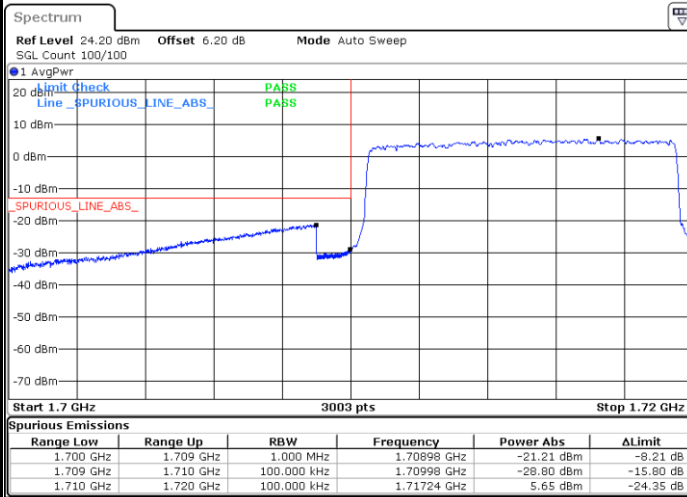
Date: 6 NOV. 2019 03:31:49

Highest Band Edge / 1 RB



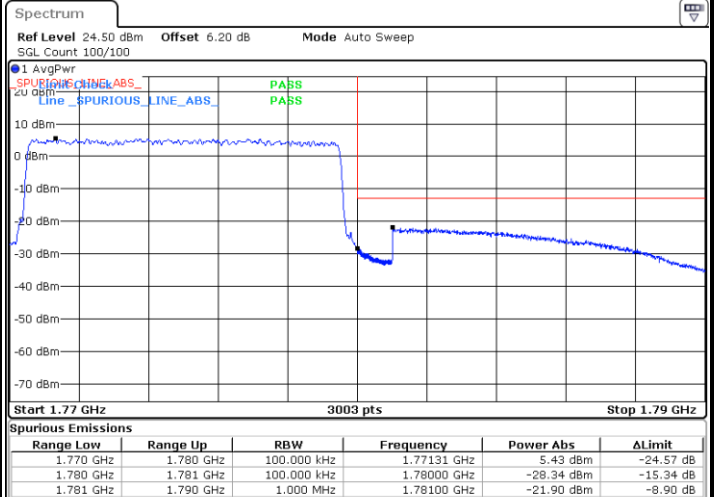
Date: 6 NOV. 2019 03:37:03

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 03:29:12

Highest Band Edge / Full RB

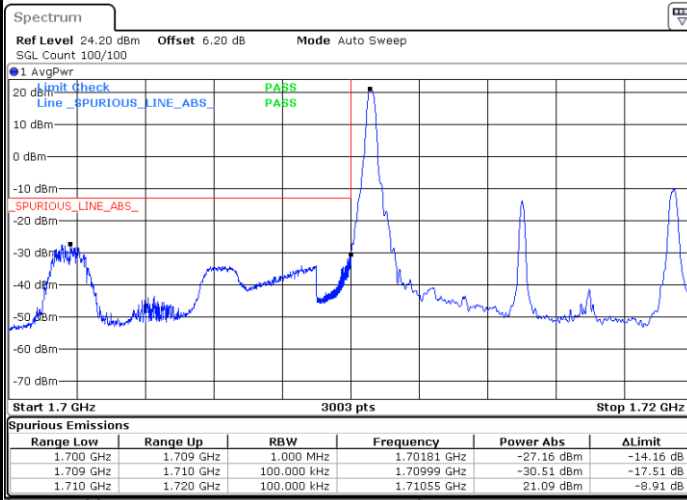


Date: 6 NOV. 2019 03:35:49



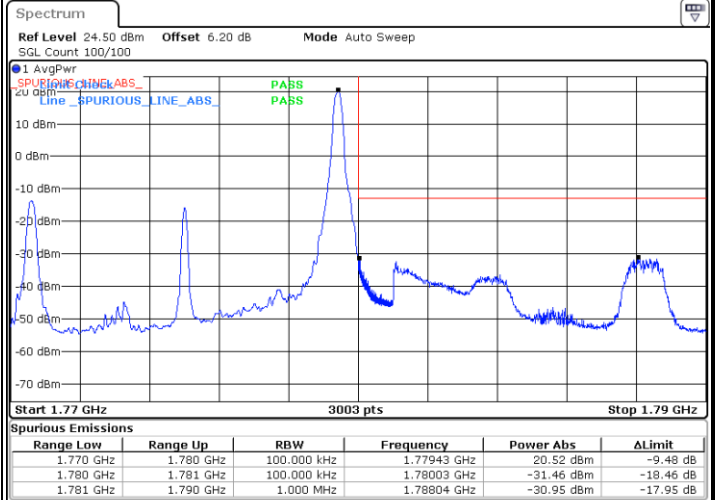
LTE Band 66 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



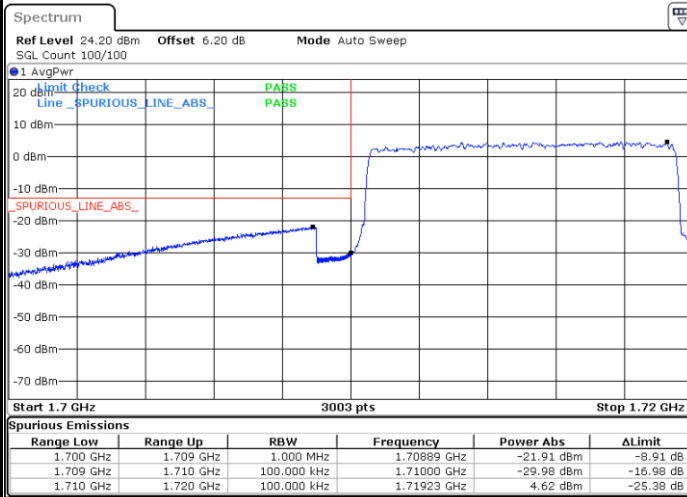
Date: 6 NOV. 2019 03:30:13

Highest Band Edge / 1 RB



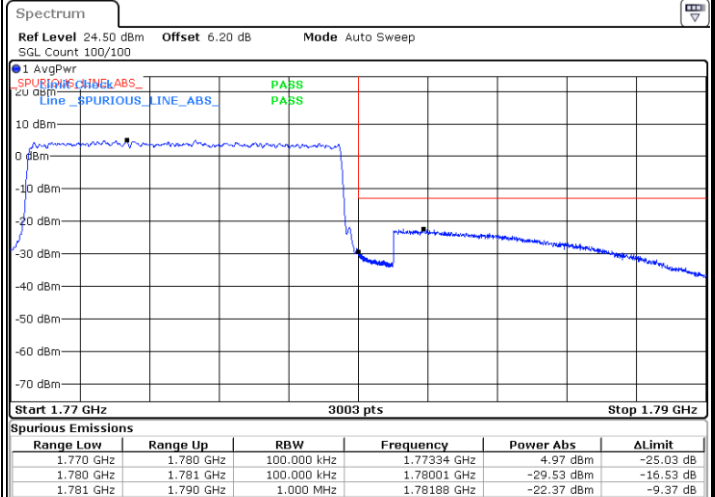
Date: 6 NOV. 2019 03:36:49

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 03:29:45

Highest Band Edge / Full RB

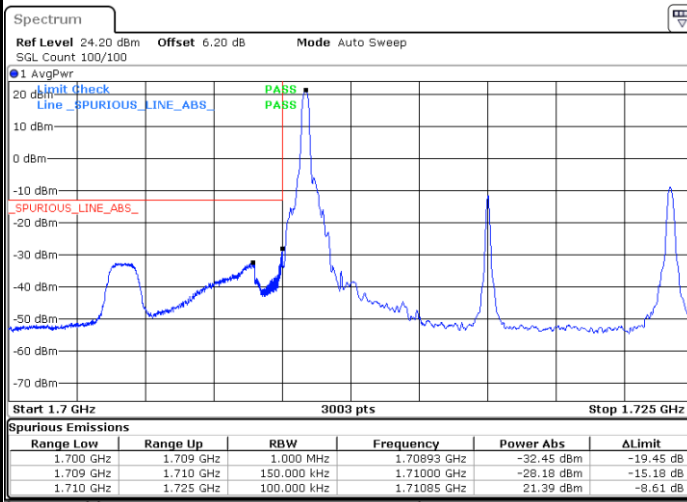


Date: 6 NOV. 2019 03:36:29



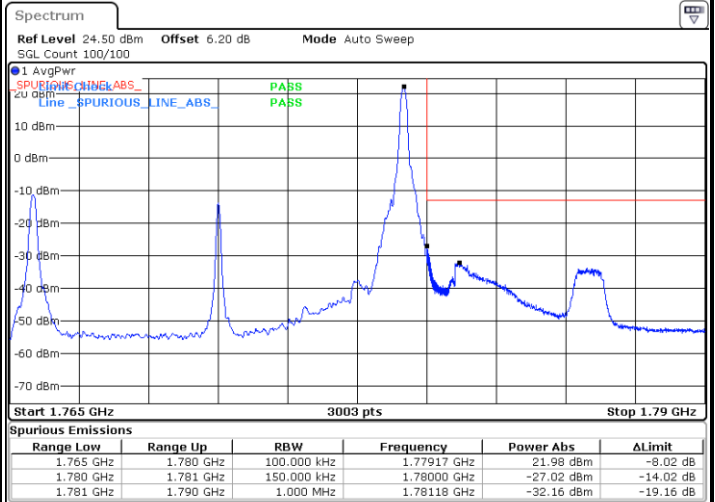
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



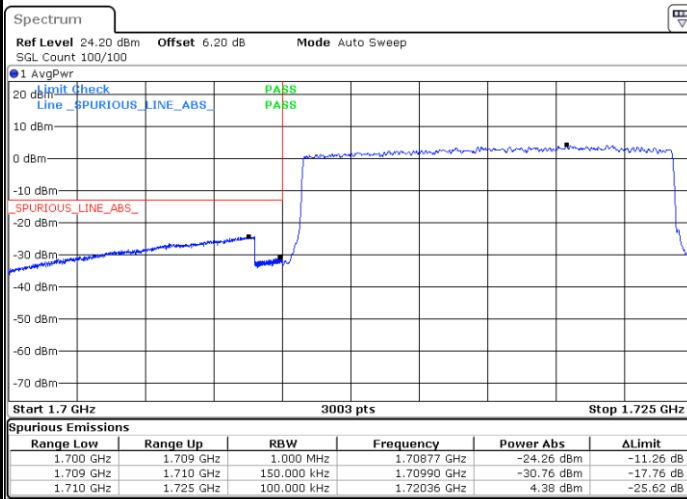
Date: 6 NOV. 2019 04:21:44

Highest Band Edge / 1 RB



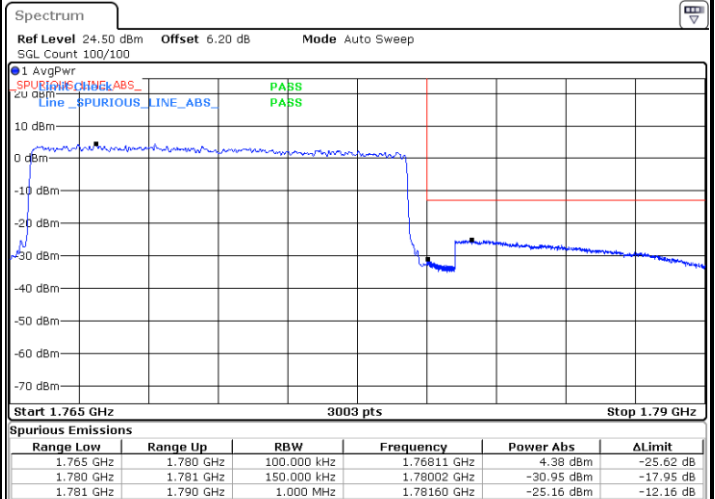
Date: 6 NOV. 2019 04:28:07

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 04:19:48

Highest Band Edge / Full RB

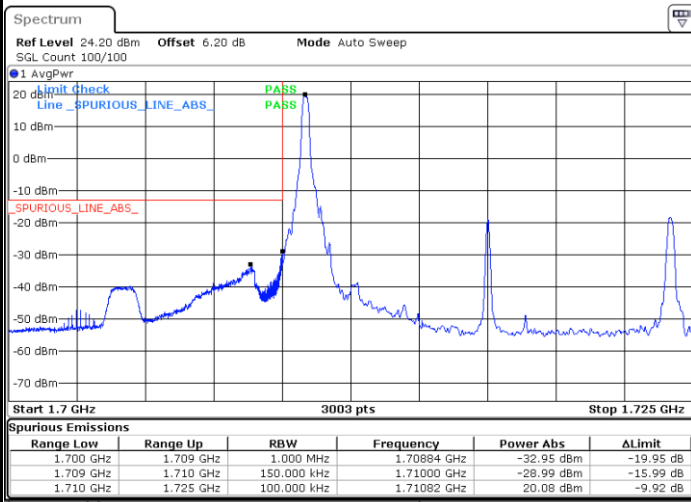


Date: 6 NOV. 2019 04:27:10



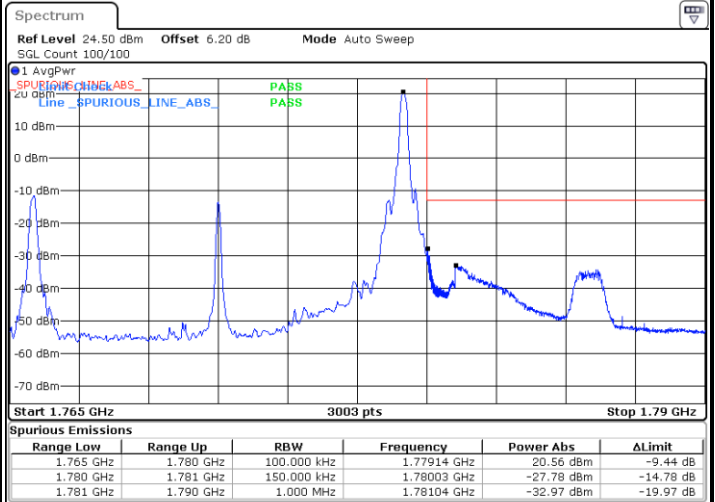
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



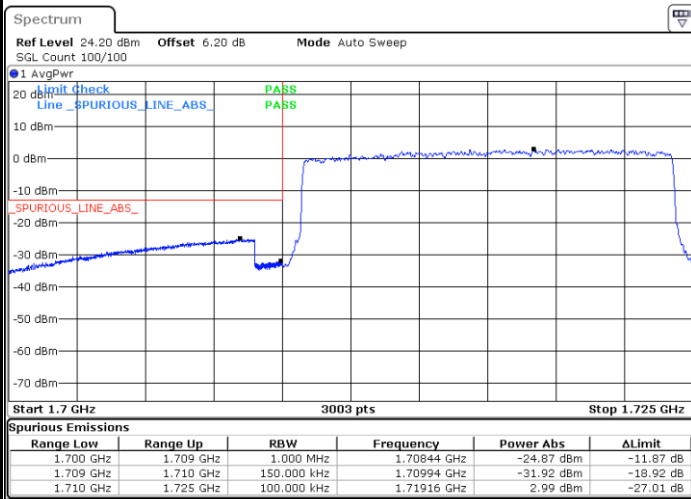
Date: 6 NOV. 2019 04:20:31

Highest Band Edge / 1 RB



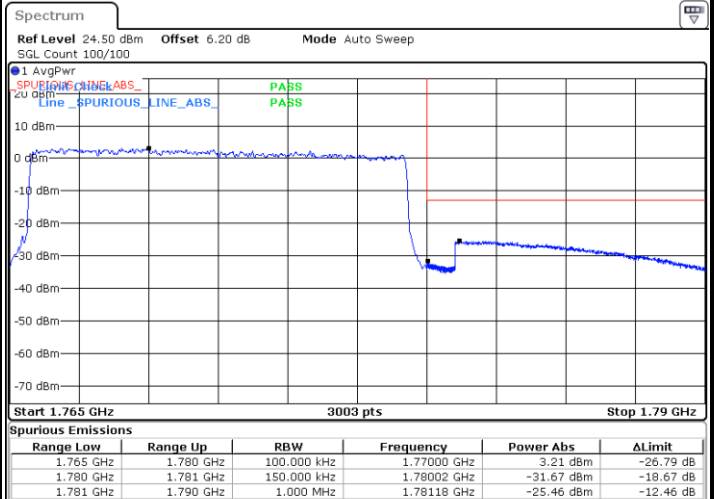
Date: 6 NOV. 2019 04:27:53

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 04:20:15

Highest Band Edge / Full RB

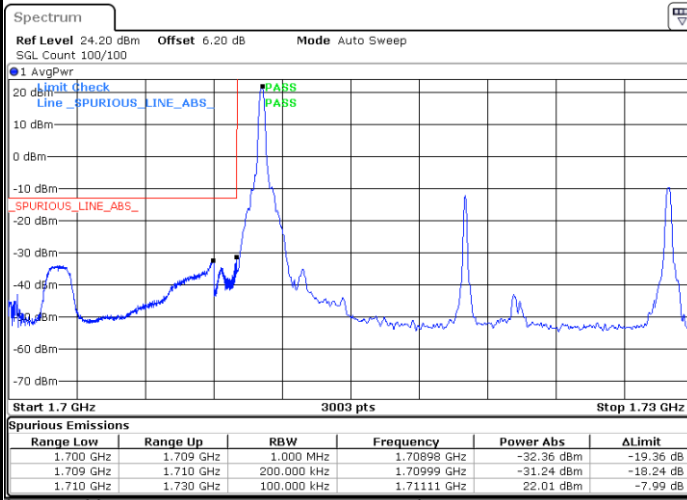


Date: 6 NOV. 2019 04:27:35



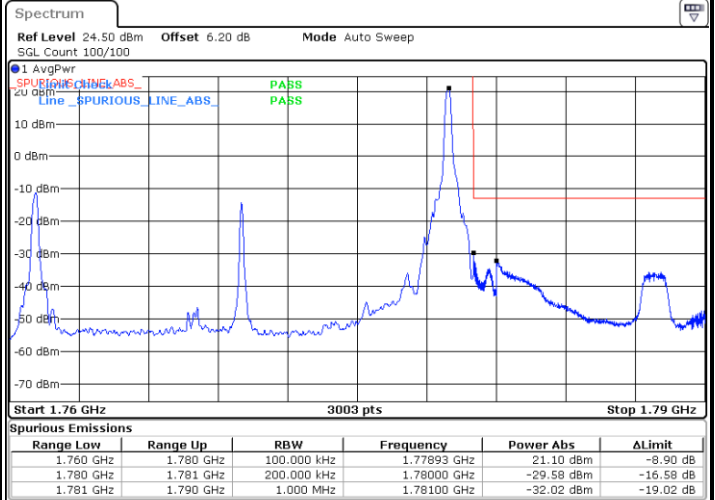
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / 1 RB



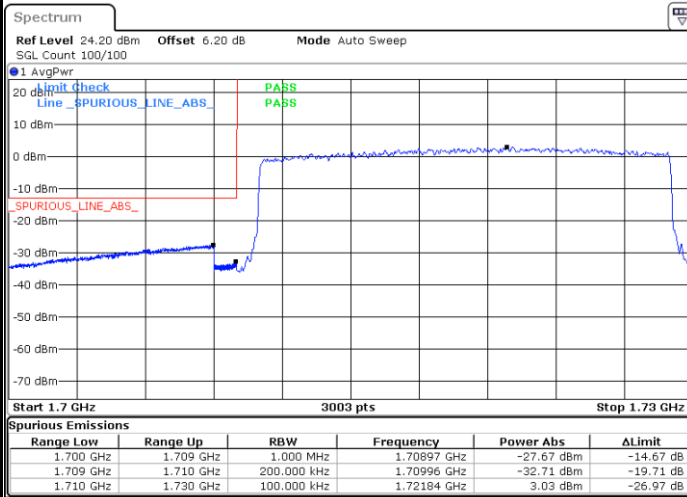
Date: 6 NOV.2019 04:36:13

Highest Band Edge / 1 RB



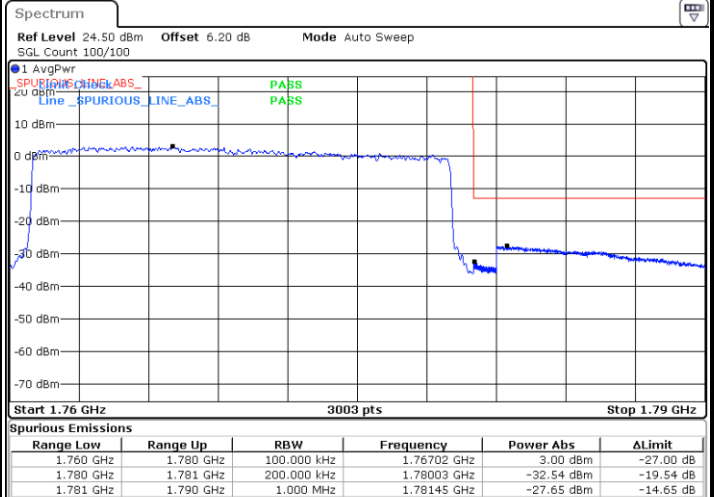
Date: 6 NOV.2019 04:40:35

Lowest Band Edge / Full RB



Date: 6 NOV.2019 04:34:37

Highest Band Edge / Full RB

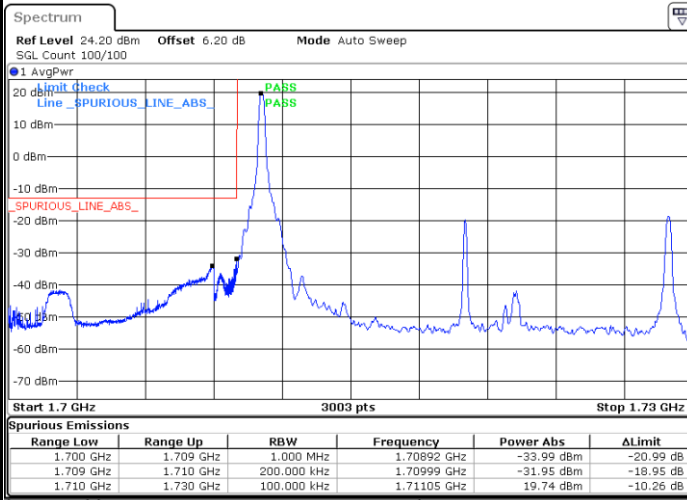


Date: 6 NOV.2019 04:39:49



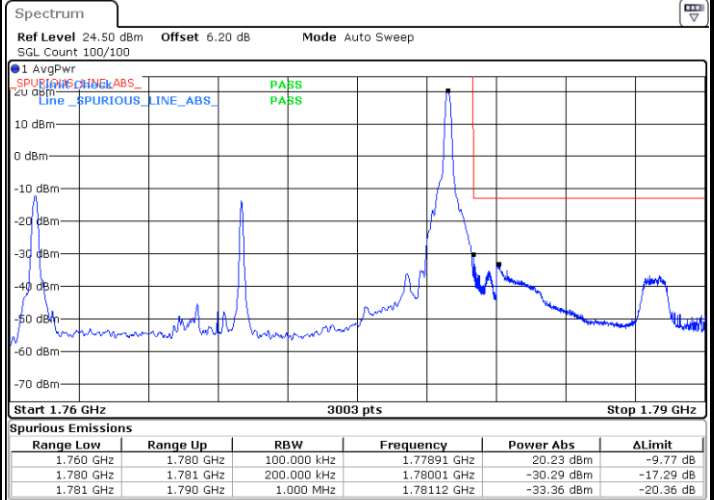
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



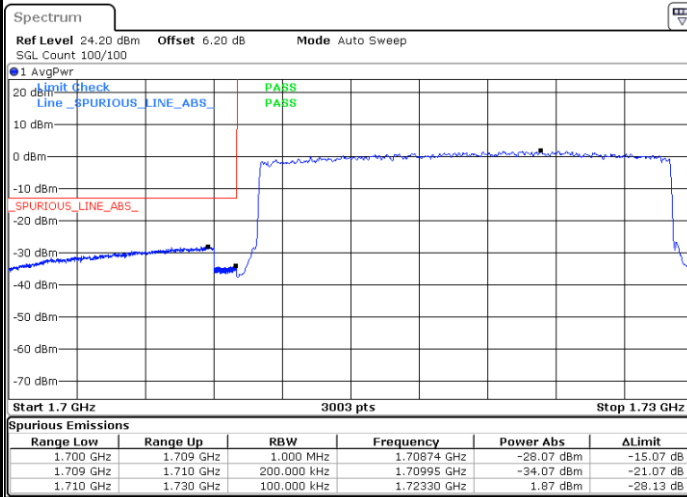
Date: 6 NOV. 2019 04:35:26

Highest Band Edge / 1 RB



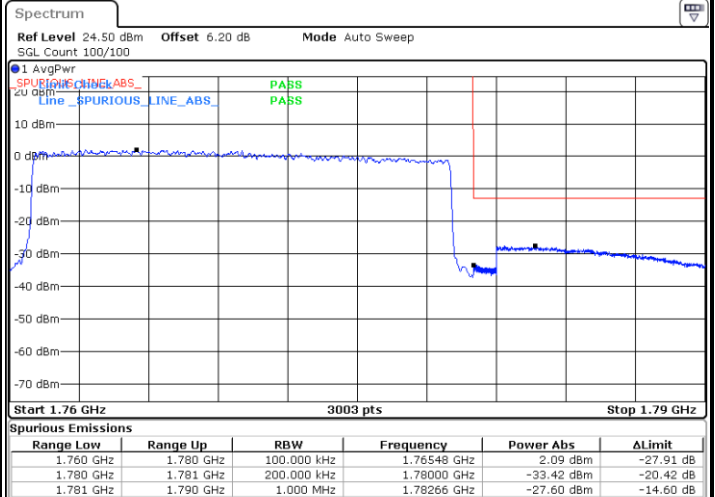
Date: 6 NOV. 2019 04:40:26

Lowest Band Edge / Full RB



Date: 6 NOV. 2019 04:35:05

Highest Band Edge / Full RB



Date: 6 NOV. 2019 04:40:13



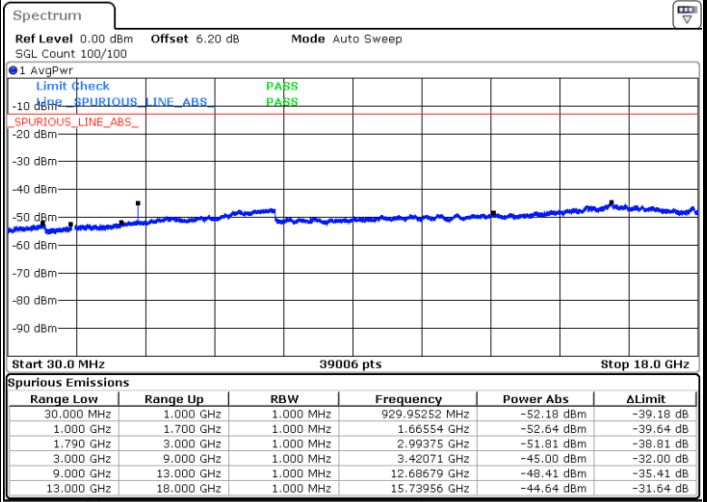
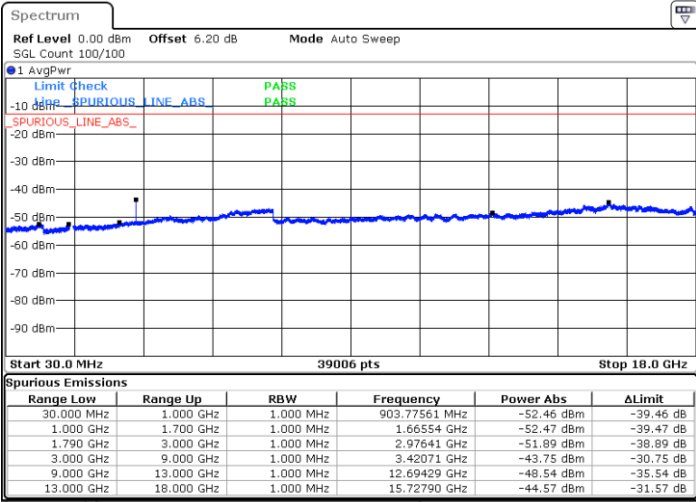
Conducted Spurious Emission



LTE Band 66 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

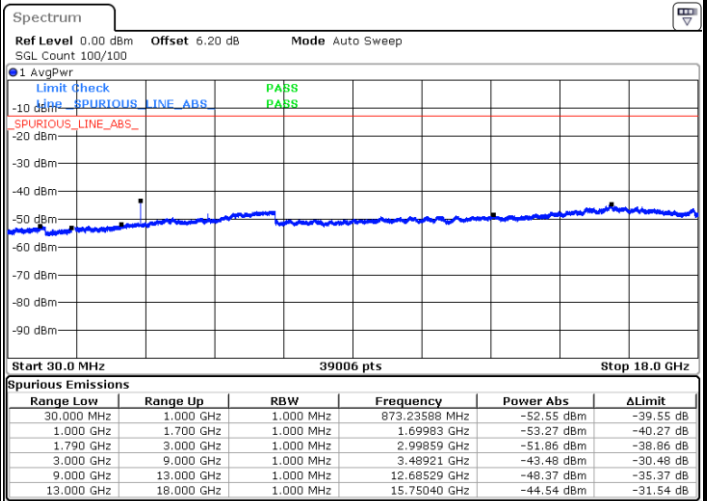
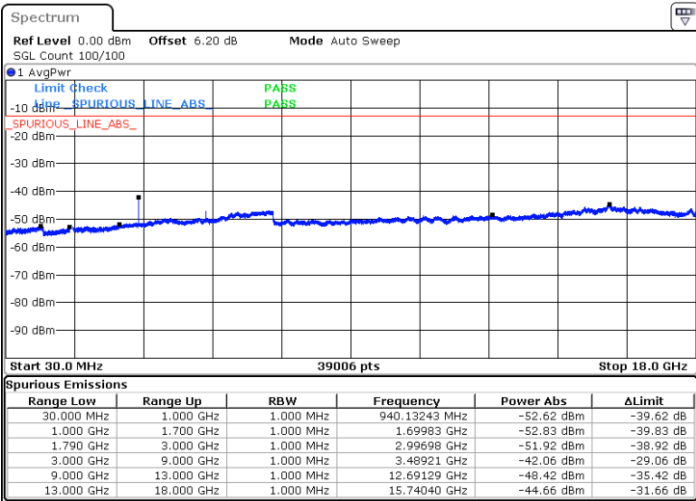


Date: 6 NOV.2019 00:25:01

Date: 6 NOV.2019 00:26:26

Middle Channel / QPSK

Middle Channel / 16QAM



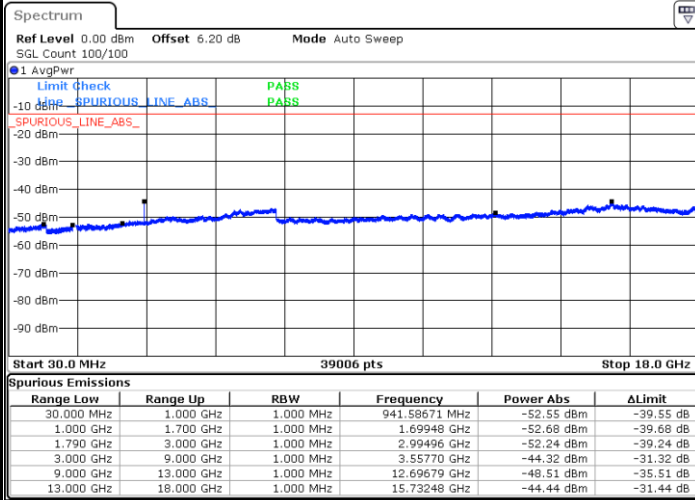
Date: 6 NOV.2019 00:38:13

Date: 6 NOV.2019 00:37:37



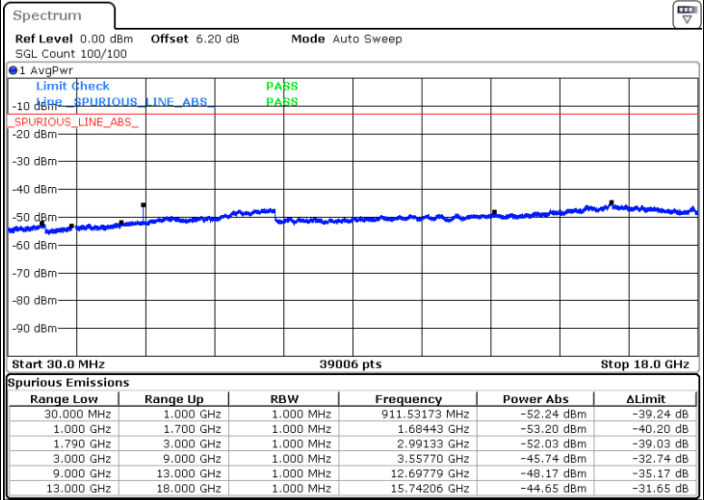
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 6 NOV. 2019 00:45:22

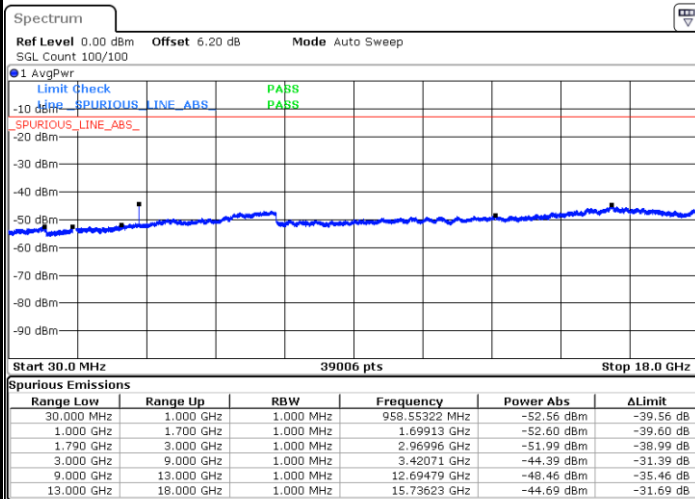
Highest Channel / 16QAM



Date: 6 NOV. 2019 00:46:00

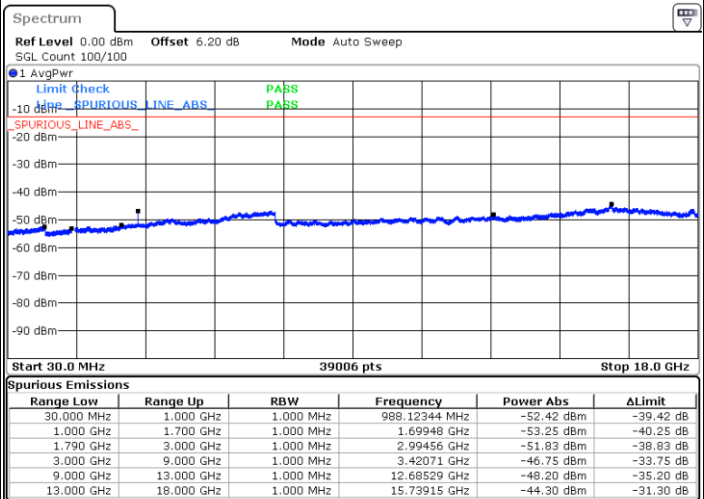
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 6 NOV. 2019 00:56:38

Lowest Channel / 16QAM

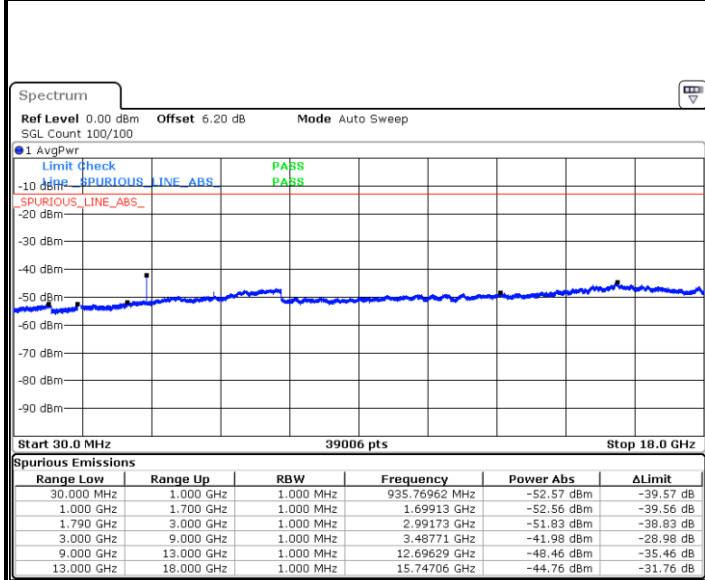


Date: 6 NOV. 2019 00:55:26



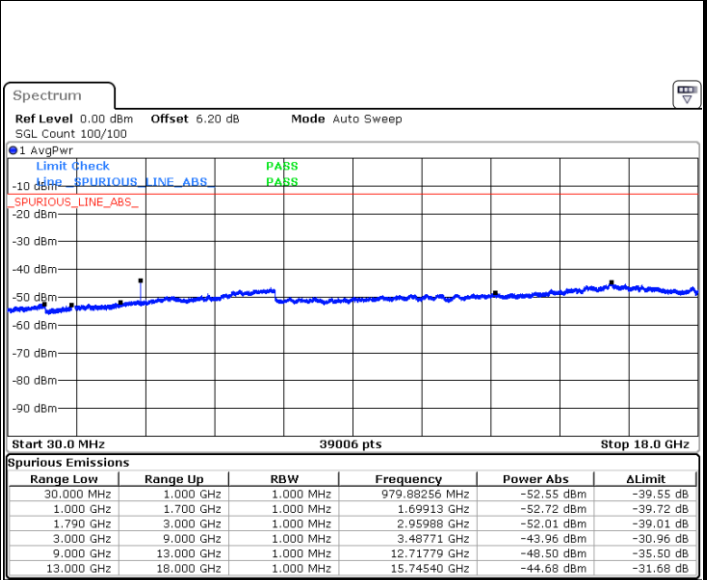
LTE Band 66 / 3MHz

Middle Channel / QPSK



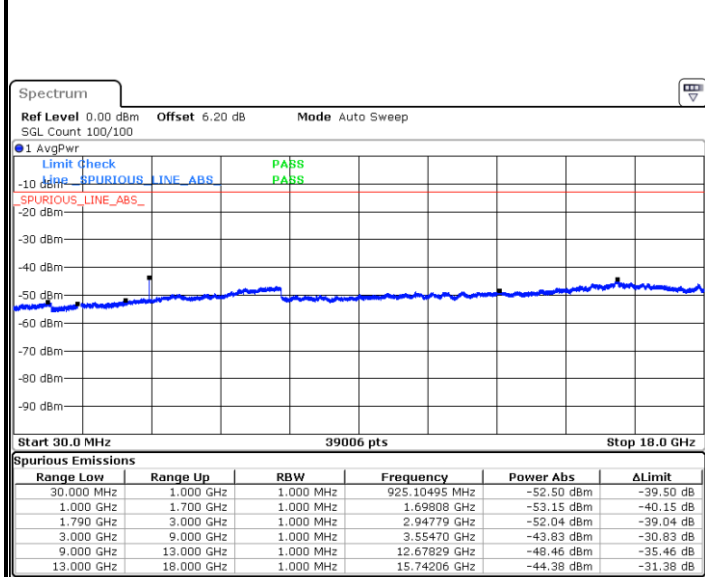
Date: 6 NOV.2019 01:02:30

Middle Channel / 16QAM



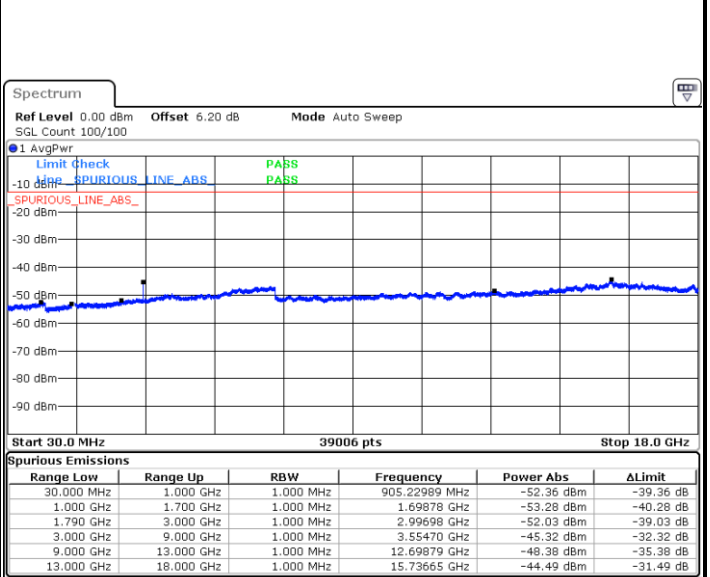
Date: 6 NOV.2019 01:01:16

Highest Channel / QPSK



Date: 6 NOV.2019 01:06:00

Highest Channel / 16QAM



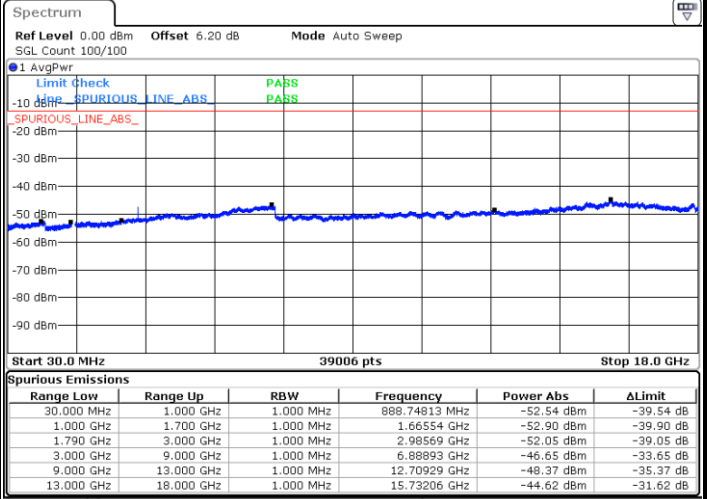
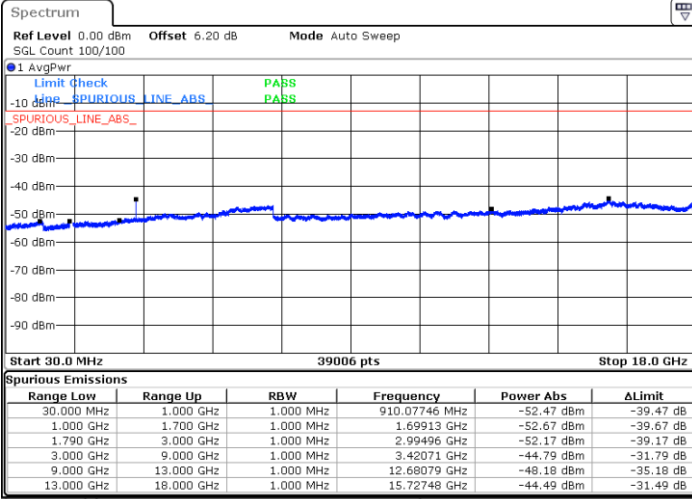
Date: 6 NOV.2019 01:05:22



LTE Band 66 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

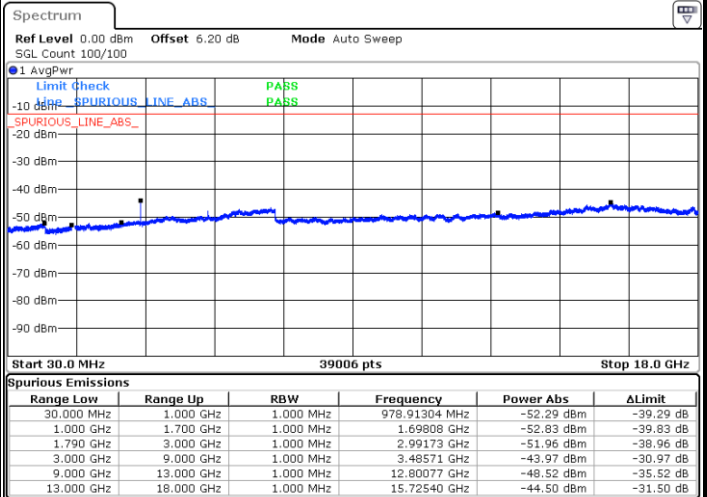
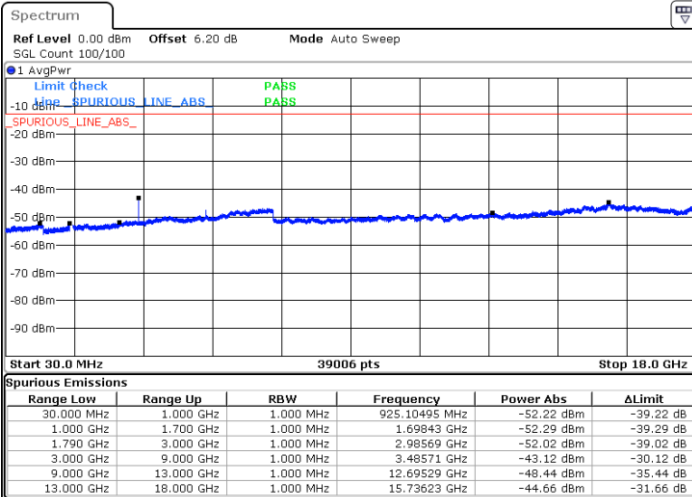


Date: 6.NOV.2019 01:16:10

Date: 6.NOV.2019 01:14:49

Middle Channel / QPSK

Middle Channel / 16QAM



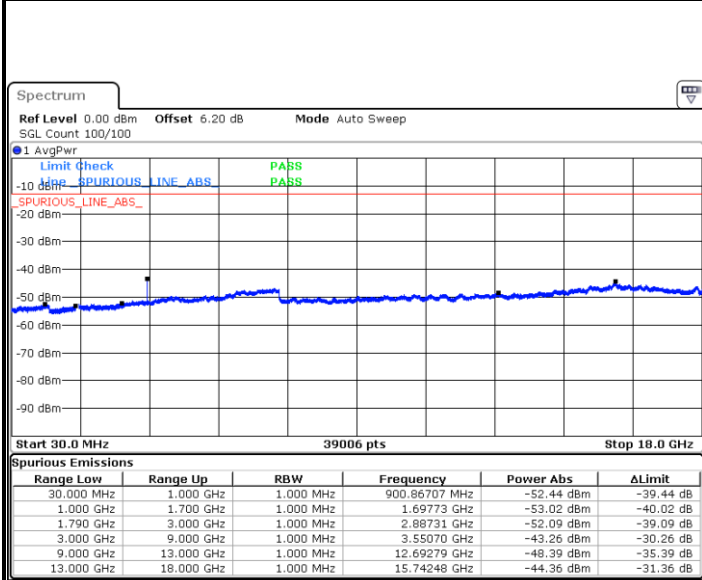
Date: 6.NOV.2019 01:18:55

Date: 6.NOV.2019 01:17:58



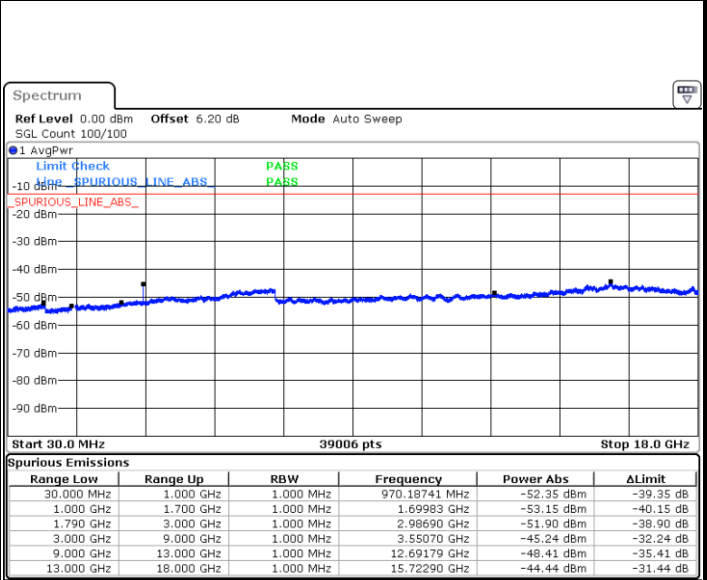
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 6 NOV. 2019 01:19:51

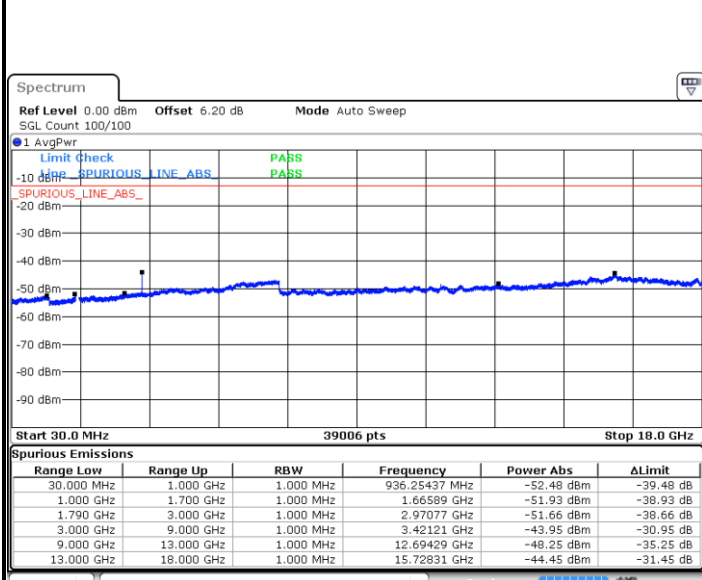
Highest Channel / 16QAM



Date: 6 NOV. 2019 01:20:32

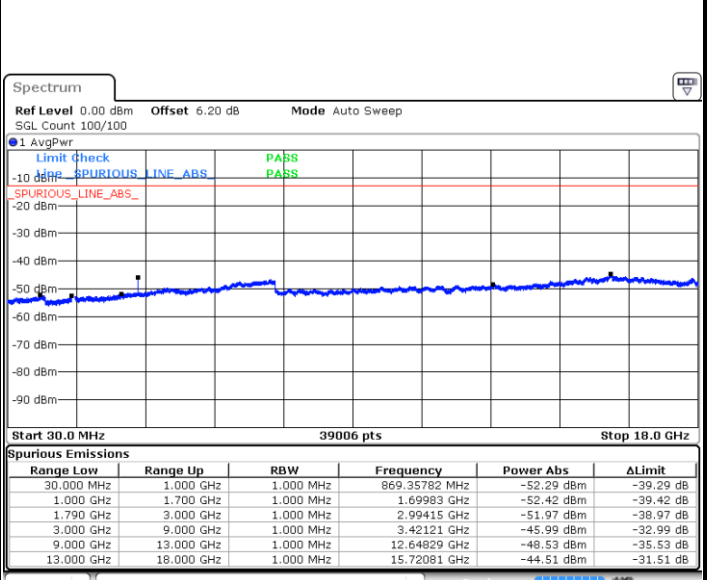
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 6 NOV. 2019 03:32:31

Lowest Channel / 16QAM



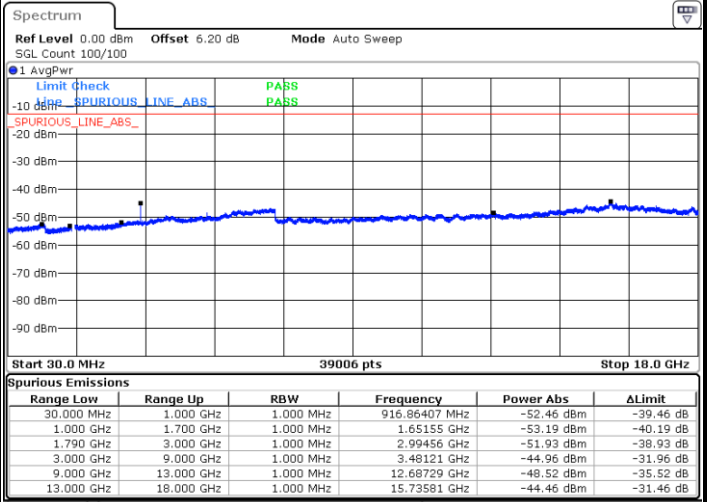
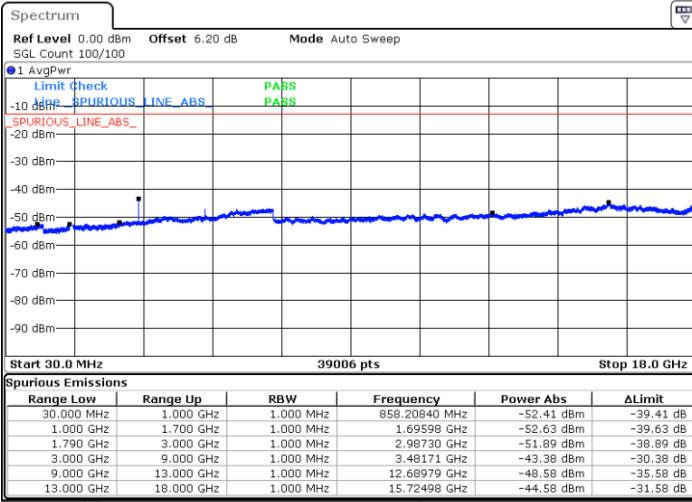
Date: 6 NOV. 2019 03:30:44



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

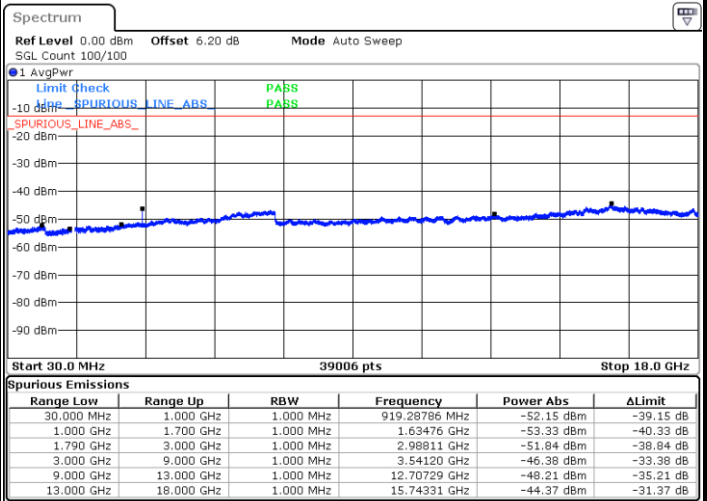
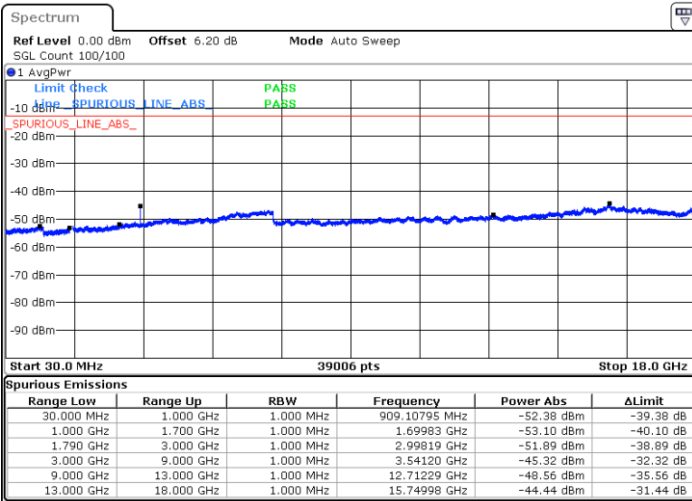


Date: 6 NOV.2019 03:33:35

Date: 6 NOV.2019 03:34:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 NOV.2019 03:37:49

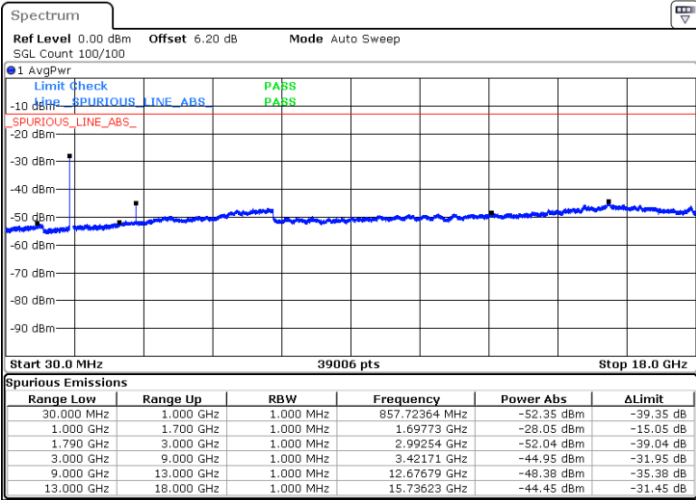
Date: 6 NOV.2019 03:38:47



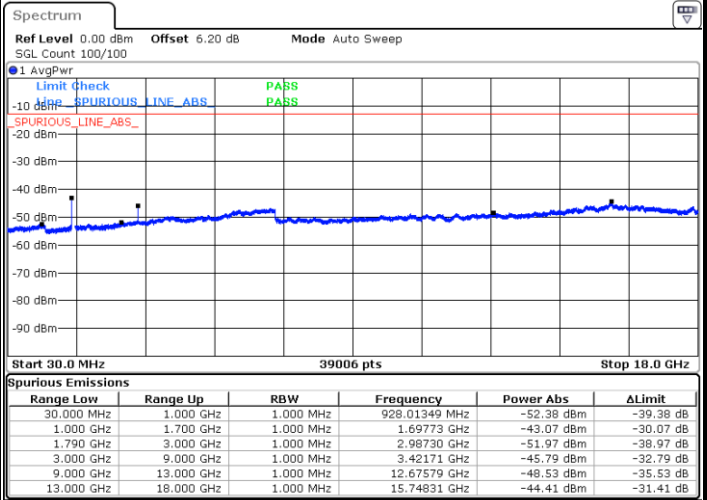
LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



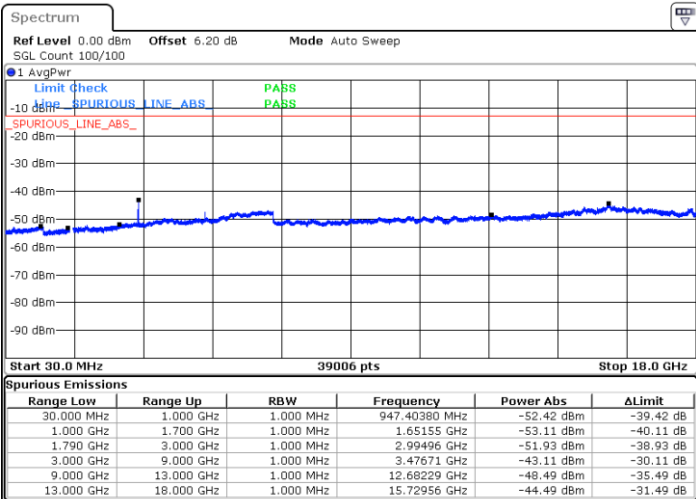
Date: 6 NOV.2019 04:22:16



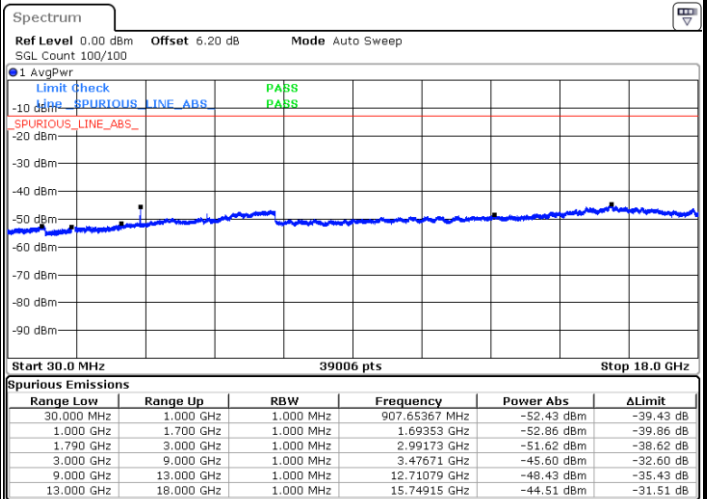
Date: 6 NOV.2019 04:21:02

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6 NOV.2019 04:24:42

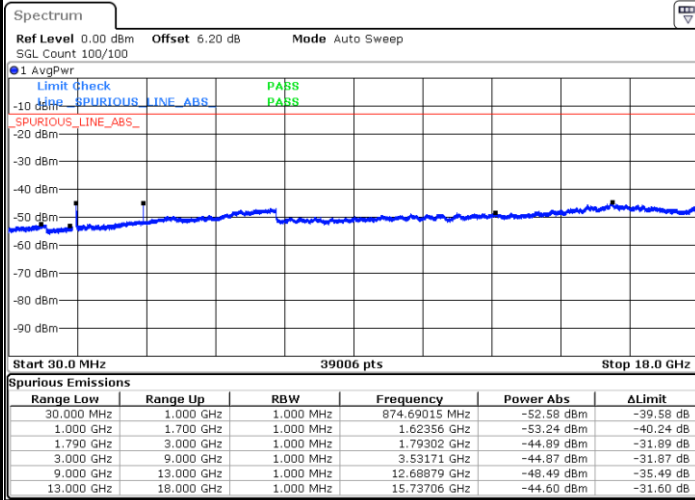


Date: 6 NOV.2019 04:25:36



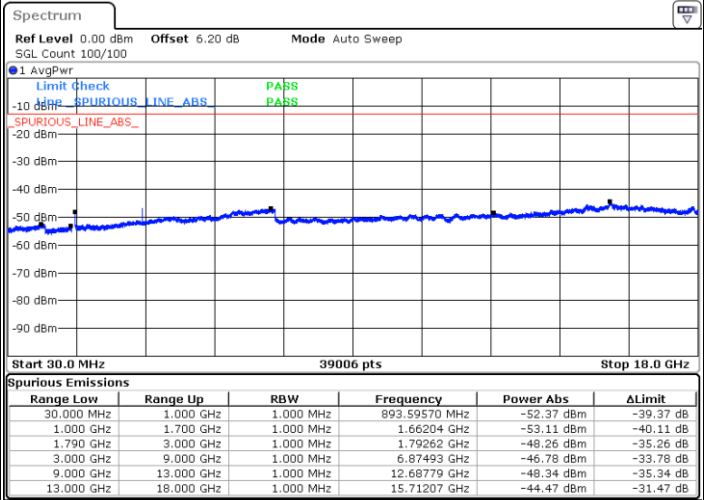
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 6 NOV.2019 04:28:45

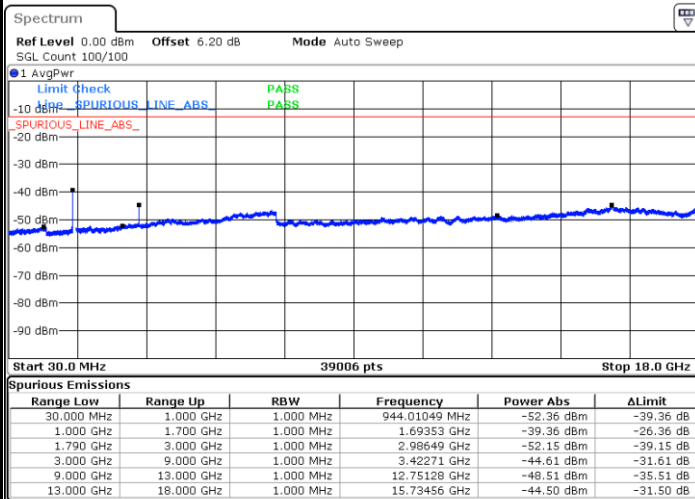
Highest Channel / 16QAM



Date: 6 NOV.2019 04:29:31

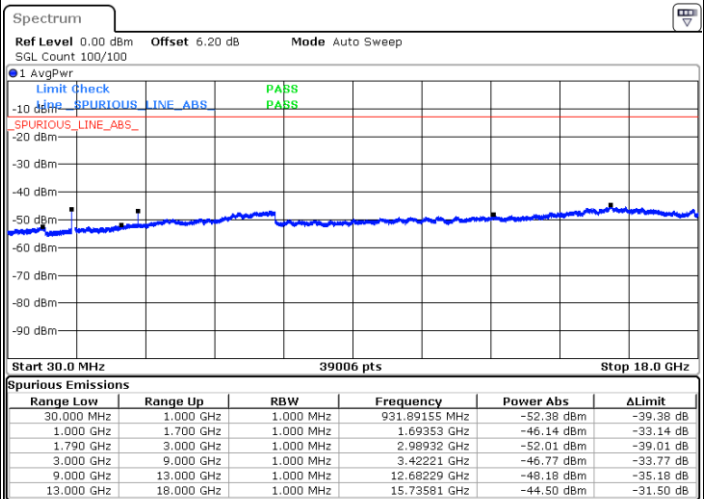
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 6 NOV.2019 04:36:45

Lowest Channel / 16QAM



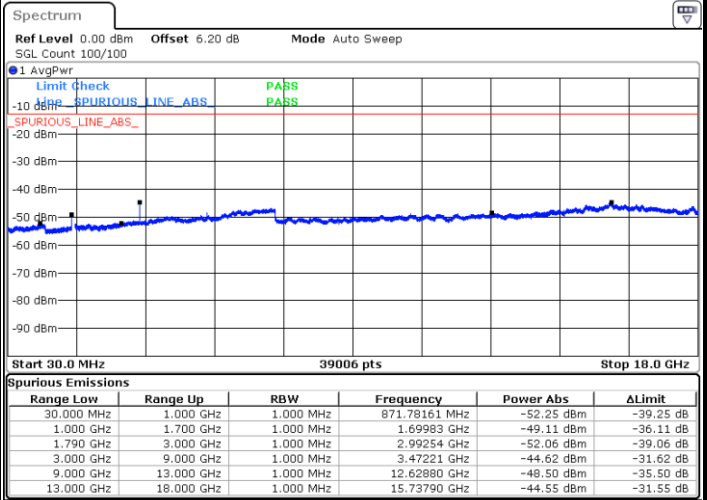
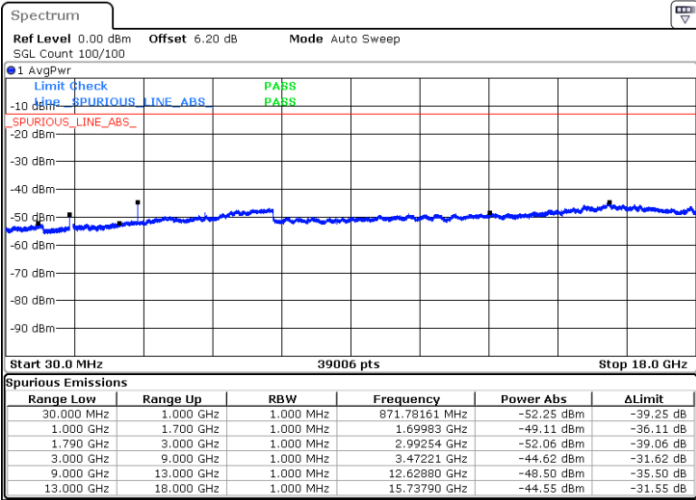
Date: 6 NOV.2019 04:35:57



LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

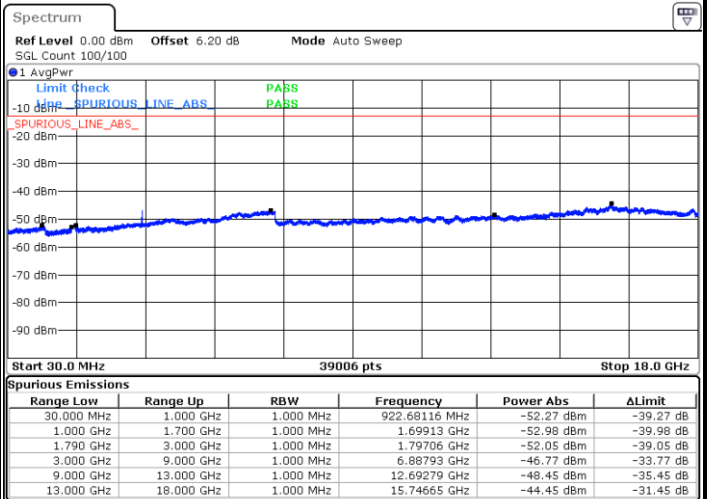
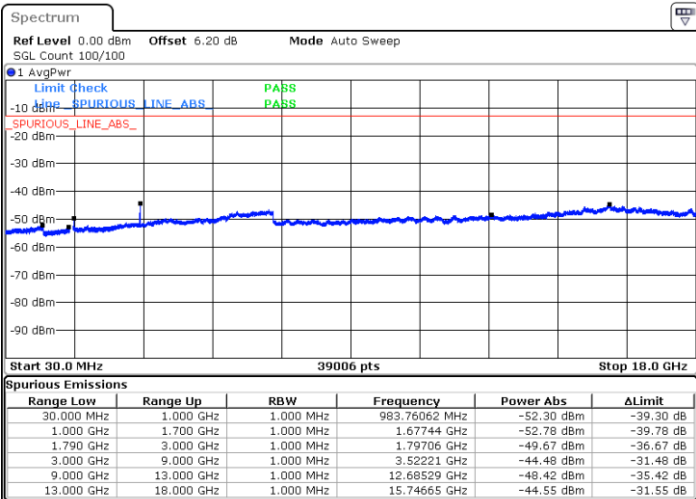


Date: 6 NOV.2019 04:37:48

Date: 6 NOV.2019 04:37:48

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 NOV.2019 04:41:10

Date: 6 NOV.2019 04:42:03



Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 7 / 20MHz / 64QAM								
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	5052	-63.76	-25	-38.76	-73.97	3.03	13.24	H
	7580	-46.04	-25	-21.04	-55.49	3.56	13.01	H
	10100	-56.25	-25	-31.25	-65.77	3.92	13.44	H
	12630	-54.80	-25	-29.80	-64.72	4.44	14.36	H
	5052.18	-65.01	-25	-40.01	-75.22	3.03	13.24	V
	7580	-51.39	-25	-26.39	-60.84	3.56	13.01	V
	10104.36	-53.14	-25	-28.14	-62.66	3.92	13.44	V
	12630	-48.61	-25	-23.61	-58.53	4.44	14.36	V

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

LTE Band 12 / 10MHz / 16QAM								
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	1406	-49.72	-13	-36.72	-56.69	1.58	10.70	H
	2110	-47.64	-13	-34.64	-55.89	2.102	12.50	H
	2812	-61.41	-13	-48.41	-70.30	2.856	13.90	H
	3516	-54.57	-13	-41.57	-63.03	2.689	13.30	H
	4218	-59.07	-13	-46.07	-66.83	3.093	13.00	H
	4920	-51.09	-13	-38.09	-59.86	3.178	14.10	H
	1406	-52.20	-13	-39.20	-59.17	1.58	10.70	V
	2110	-44.03	-13	-31.03	-52.28	2.10	12.50	V
	2812	-62.66	-13	-49.66	-71.55	2.86	13.90	V
	3516	-57.29	-13	-44.29	-65.75	2.69	13.30	V
	4218	-51.91	-13	-38.91	-59.67	3.09	13.00	V
	4920	-50.75	-13	-37.75	-59.52	3.18	14.10	V

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



LTE Band 13 / 5MHz / 16QAM								
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	1560	-47.81	-42.15	-5.66	-50.44	1.09	5.87	H
	2340	-40.41	-13	-27.41	-42.81	1.37	5.92	H
	3120	-54.66	-13	-41.66	-58.55	1.64	7.68	H
	3899.2	-60.24	-13	-47.24	-64.46	1.75	8.12	H
	4679.04	-59.46	-13	-46.46	-64.43	1.96	9.08	H
	5458.88	-59.00	-13	-46.00	-63.95	2.35	9.45	H
	6238.72	-57.01	-13	-44.01	-62.84	2.67	10.65	H
	7020	-45.67	-13	-32.67	-51.89	2.95	11.32	H
	1560	-44.63	-42.15	-2.48	-47.26	1.09	5.87	V
	2340	-41.98	-13	-28.98	-44.38	1.37	5.92	V
	3120	-56.43	-13	-43.43	-60.32	1.64	7.68	V
	3899.2	-58.86	-13	-45.86	-63.08	1.75	8.12	V
	4679.06	-59.99	-13	-46.99	-64.96	1.96	9.08	V
	5458.88	-59.01	-13	-46.01	-63.96	2.35	9.45	V
	6238.72	-57.83	-13	-44.83	-63.66	2.67	10.65	V
	7020	-49.72	-13	-36.72	-55.94	2.95	11.32	V

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

LTE Band 13 / 10MHz / 16QAM								
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	1556	-42.55	-13	-29.55	-45.18	1.09	5.87	H
	2332	-35.23	-13	-22.23	-37.63	1.37	5.92	H
	3108	-48.60	-13	-35.60	-52.49	1.64	7.68	H
	3888	-57.11	-13	-44.11	-61.33	1.75	8.12	H
	4668	-52.75	-13	-39.75	-57.72	1.96	9.08	H
	5442	-56.35	-13	-43.35	-61.30	2.35	9.45	H
	6222	-49.31	-13	-36.31	-55.14	2.67	10.65	H
	6996	-41.05	-13	-28.05	-47.27	2.95	11.32	H
	1554	-36.70	-13	-23.70	-39.33	1.09	5.87	V
	2332	-34.97	-13	-21.97	-37.37	1.37	5.92	V
	3108	-47.86	-13	-34.86	-51.75	1.64	7.68	V
	3888	-55.35	-13	-42.35	-59.57	1.75	8.12	V
	4668	-55.38	-13	-42.38	-60.35	1.96	9.08	V
	5442	-57.99	-13	-44.99	-62.94	2.35	9.45	V
	6222	-53.22	-13	-40.22	-59.05	2.67	10.65	V
	6996	-46.54	-13	-33.54	-52.76	2.95	11.32	V

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



LTE Band 25 / 20MHz / 64QAM								
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	-55.52	-13	-42.52	-67.78	2.64	14.90	H
	5613	-52.17	-13	-39.17	-64.03	2.94	14.80	H
	7488	-50.33	-13	-37.33	-60.10	3.39	13.16	H
	9355.45	-45.36	-13	-32.36	-55.84	4.00	14.48	H
	11226.54	-45.10	-13	-32.10	-54.61	4.23	13.74	H
	13097.63	-43.94	-13	-30.94	-53.78	4.49	14.32	H
	14968.72	-40.32	-13	-27.32	-50.57	4.94	15.19	H
	16839.81	-42.02	-13	-29.02	-51.91	5.01	14.90	H
	3741	-55.93	-13	-42.93	-68.19	2.64	14.90	V
	5613	-50.75	-13	-37.75	-62.61	2.94	14.80	V
	7488	-48.74	-13	-35.74	-58.51	3.39	13.16	V
	9360	-44.69	-13	-31.69	-55.17	4.00	14.48	V
	11226.54	-44.67	-13	-31.67	-54.18	4.23	13.74	V
	13097.63	-42.86	-13	-29.86	-52.70	4.49	14.32	V
	14968.72	-38.59	-13	-25.59	-48.84	4.94	15.19	V
	16836	-40.04	-13	-27.04	-49.93	5.01	14.90	V

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

LTE Band 26 / 15MHz / 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)
Middle	1660	-47.91	-13	-34.91	-54.88	1.58	10.70	H
	2490	-47.48	-13	-34.48	-55.73	2.102	12.50	H
	3318	-39.96	-13	-26.96	-48.85	2.856	13.90	H
	4146	-59.02	-13	-46.02	-67.48	2.689	13.30	H
	4979.04	-57.91	-13	-44.91	-65.67	3.093	13.00	H
	5808.88	-57.98	-13	-44.98	-66.75	3.178	14.10	H
	6636	-50.16	-13	-37.16	-57.40	3.306	12.70	H
	7470	-50.21	-13	-37.21	-57.80	3.406	13.15	H
	1660	-45.79	-13	-32.79	-52.76	1.58	10.70	V
	2490	-47.18	-13	-34.18	-55.43	2.10	12.50	V
	3318	-44.52	-13	-31.52	-53.41	2.86	13.90	V
	4152	-60.94	-13	-47.94	-69.40	2.69	13.30	V
	4979.04	-58.63	-13	-45.63	-66.39	3.09	13.00	V
	5808.88	-57.62	-13	-44.62	-66.39	3.18	14.10	V
	6638.72	-55.49	-13	-42.49	-62.73	3.31	12.70	V
	7468.56	-51.92	-13	-38.92	-59.51	3.41	13.15	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)
Middle	5168	-55.44	-25	-30.44	-65.54	3.54	13.64	H
	7752	-49.40	-25	-24.40	-58.83	4.10	13.52	H
	10340	-45.25	-25	-20.25	-55.13	4.51	14.39	H
	12920	-49.44	-25	-24.44	-56.84	5.17	12.58	H
	15500	-56.44	-25	-31.44	-63.73	5.66	12.95	H
	5168	-57.74	-25	-32.74	-67.84	3.54	13.64	V
	7752	-41.87	-25	-16.87	-51.30	4.10	13.52	V
	10340	-40.82	-25	-15.82	-50.70	4.51	14.39	V
	12920	-47.48	-25	-22.48	-54.88	5.17	12.58	V
15500	-53.47	-25	-28.47	-60.76	5.66	12.95	V	

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

LTE Band 66 / 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)
Middle	3471	-56.36	-13	-43.36	-67.10	2.604	13.34	H
	5208.27	-55.99	-13	-42.99	-66.50	3.011	13.52	H
	6948	-52.39	-13	-39.39	-62.59	3.271	13.47	H
	3471	-58.68	-13	-45.68	-69.42	2.604	13.34	V
	5208	-54.56	-13	-41.56	-65.07	3.011	13.52	V
	6948	-52.10	-13	-39.10	-62.30	3.271	13.47	V

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