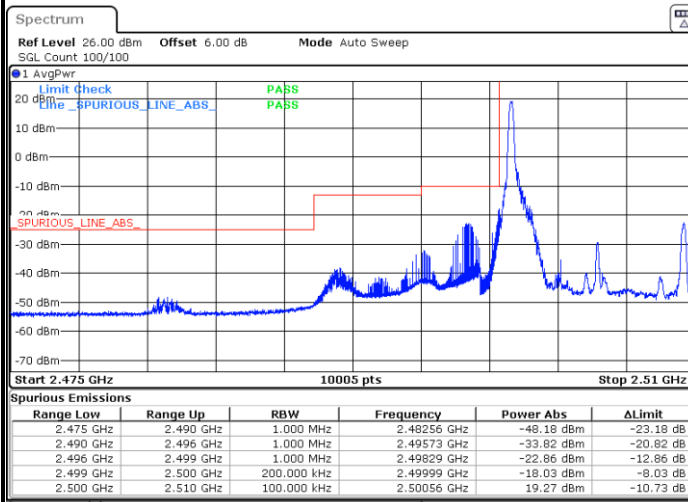


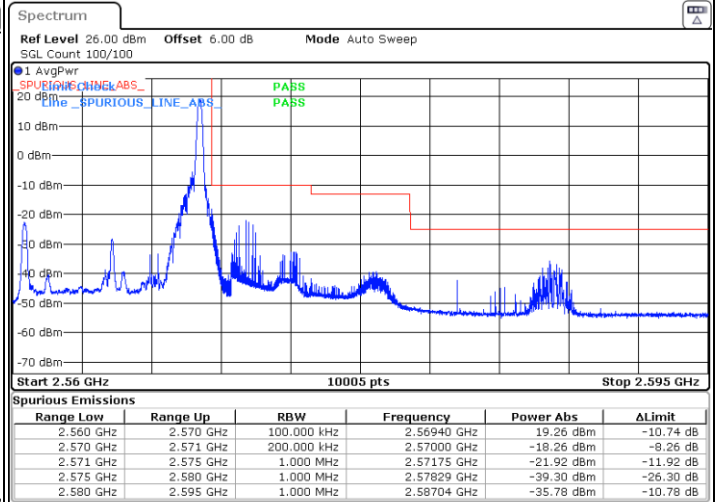


LTE Band 7 / 10MHz / 16QAM

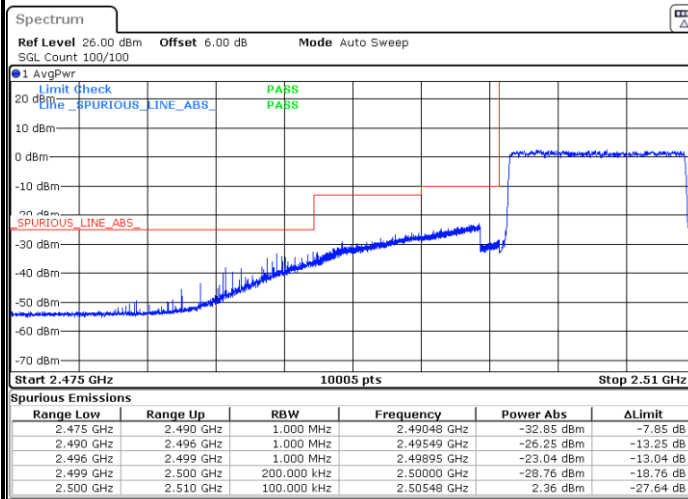
Lowest Band Edge / 1 RB



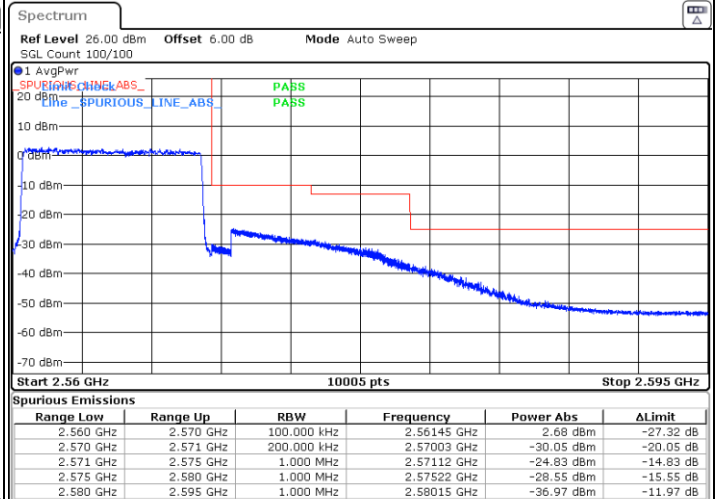
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



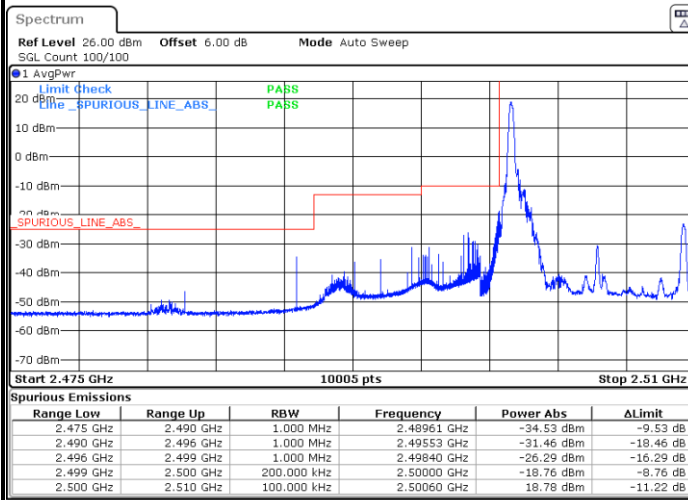
Highest Band Edge / Full RB





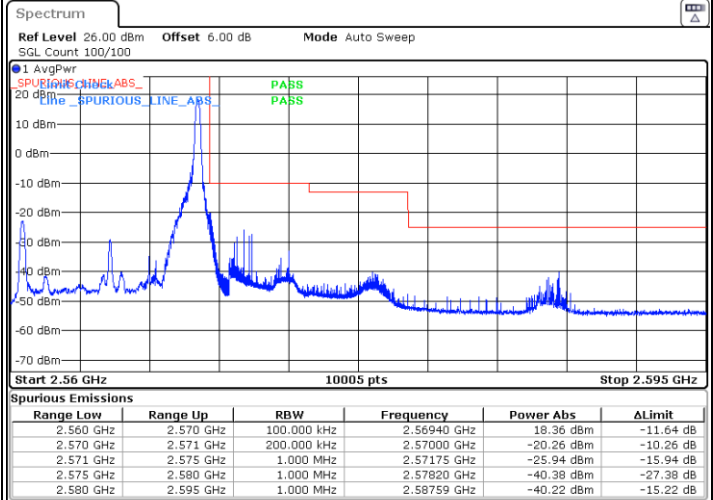
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



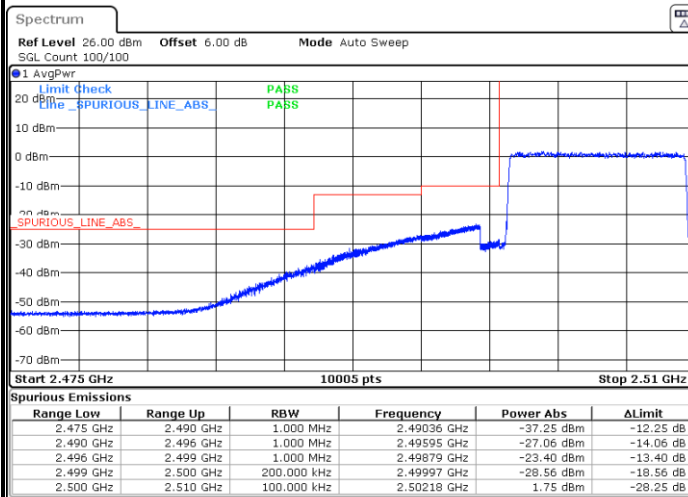
Date: 3 DEC.2019 23:32:03

Highest Band Edge / 1 RB



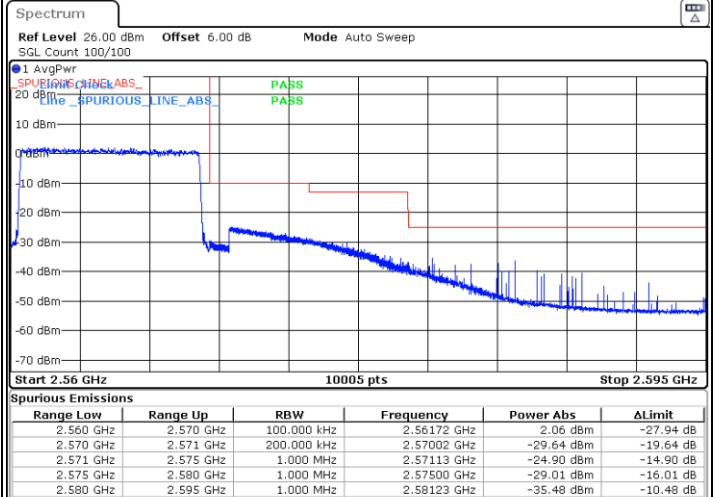
Date: 3 DEC.2019 23:04:33

Lowest Band Edge / Full RB



Date: 3 DEC.2019 23:31:44

Highest Band Edge / Full RB

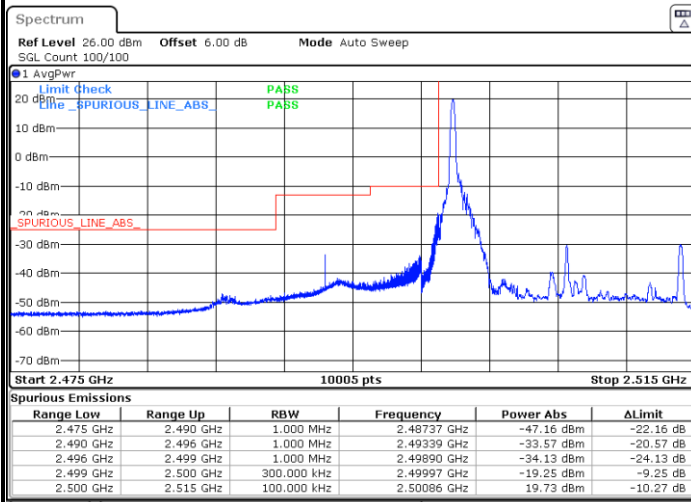


Date: 3 DEC.2019 23:05:42

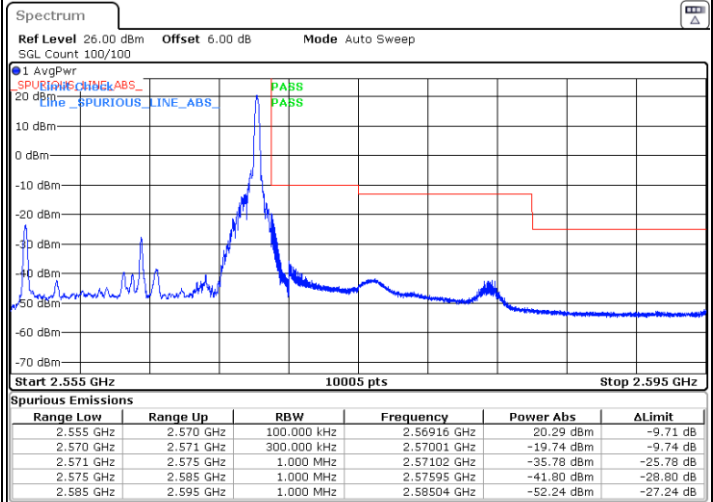


LTE Band 7 / 15MHz / QPSK

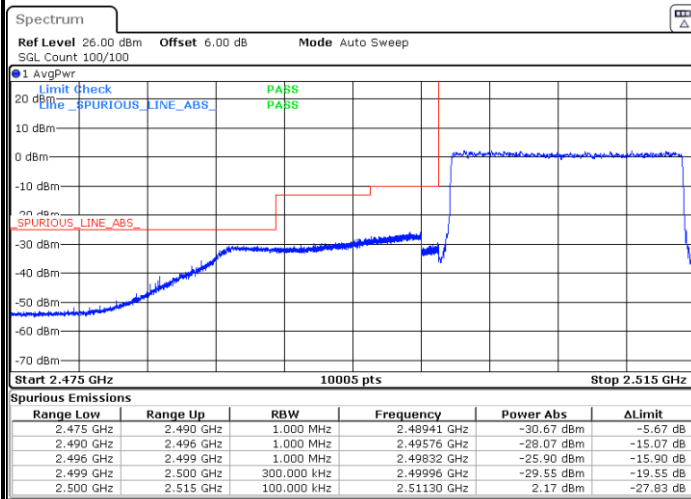
Lowest Band Edge / 1 RB



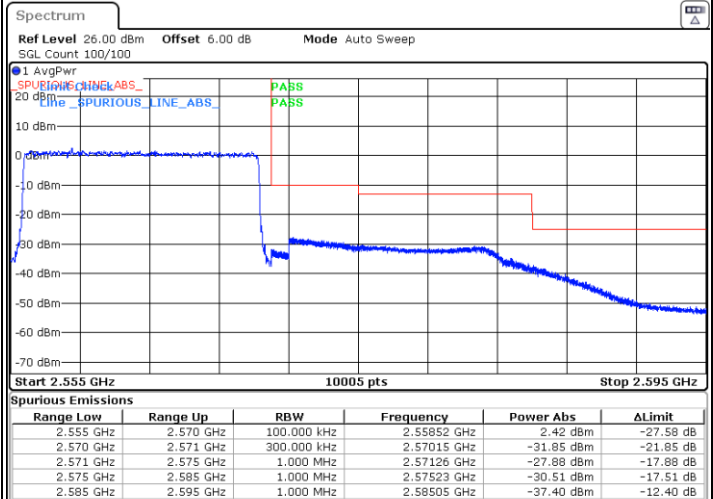
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



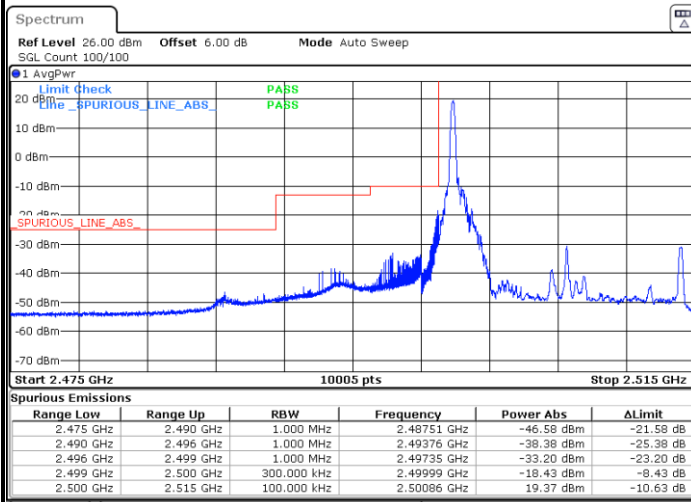
Highest Band Edge / Full RB



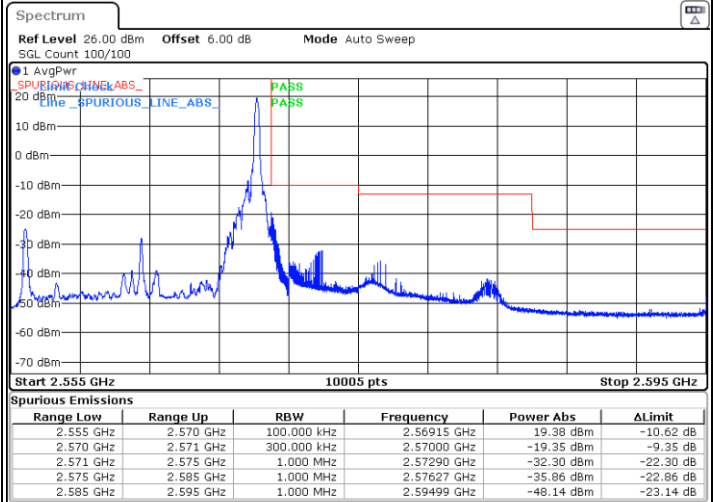


LTE Band 7 / 15MHz / 16QAM

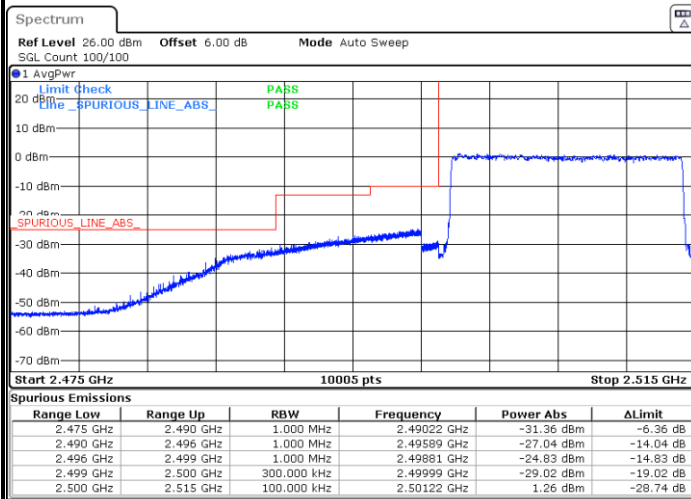
Lowest Band Edge / 1 RB



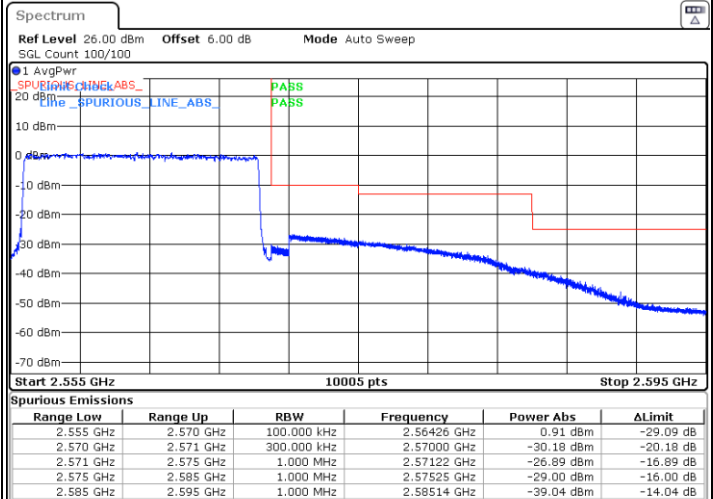
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



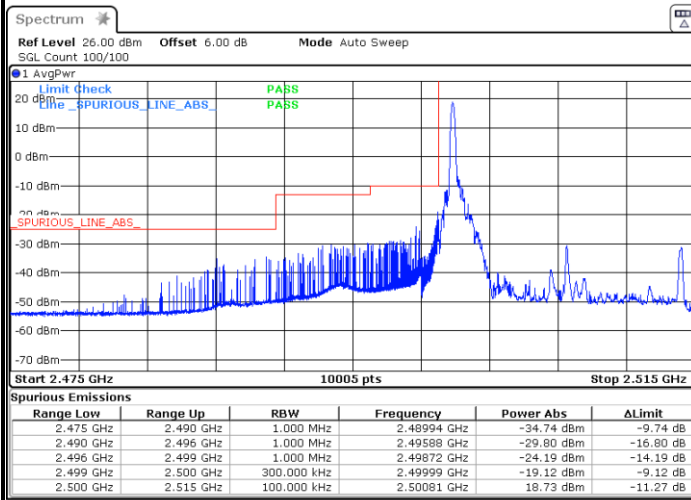
Highest Band Edge / Full RB





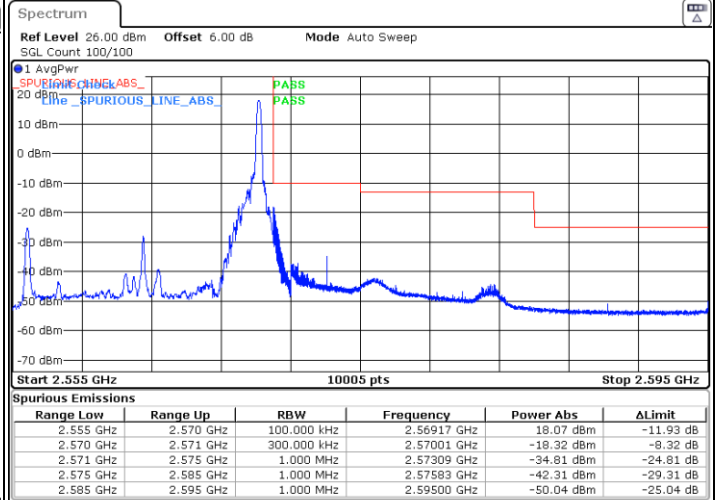
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



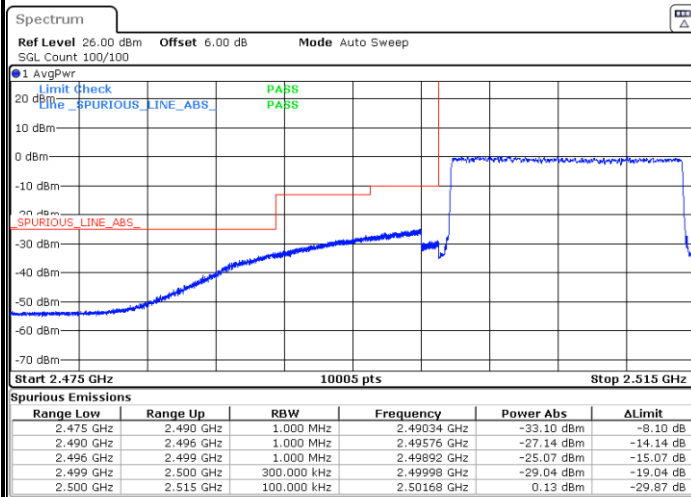
Date: 3 DEC.2019 23:32:32

Highest Band Edge / 1 RB



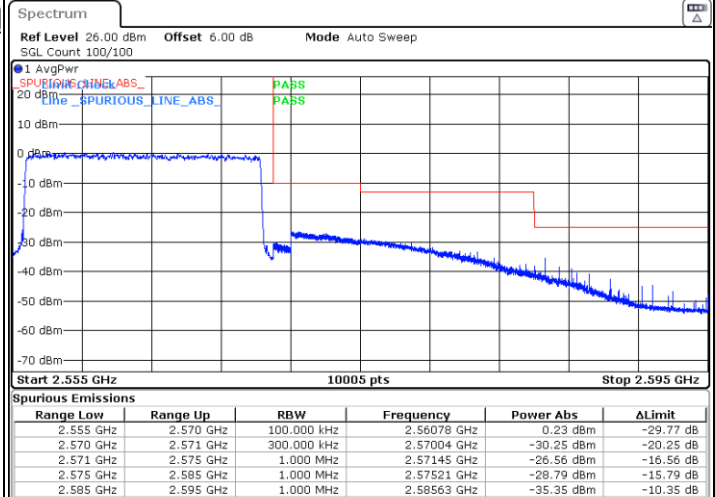
Date: 3 DEC.2019 23:08:59

Lowest Band Edge / Full RB



Date: 3 DEC.2019 23:32:49

Highest Band Edge / Full RB

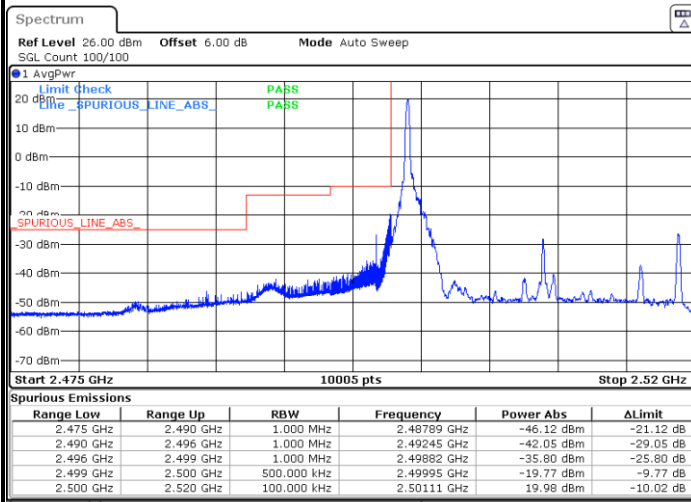


Date: 3 DEC.2019 23:07:51

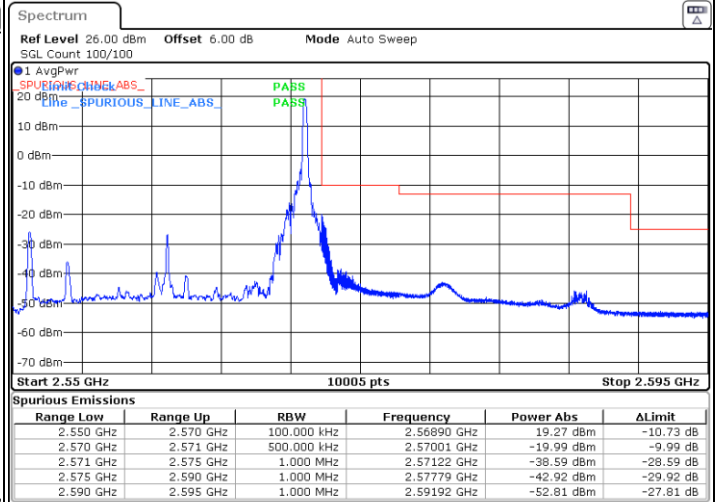


LTE Band 7 / 20MHz / QPSK

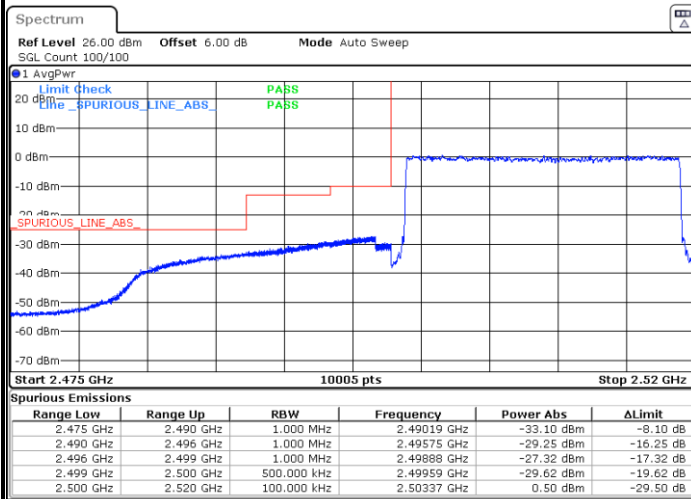
Lowest Band Edge / 1 RB



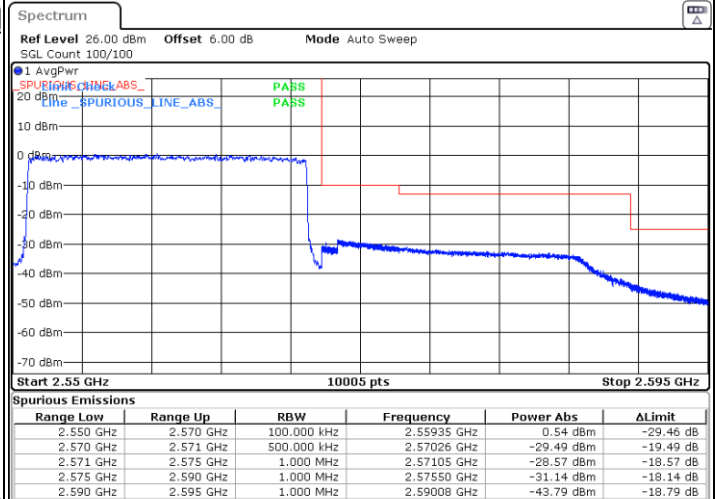
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



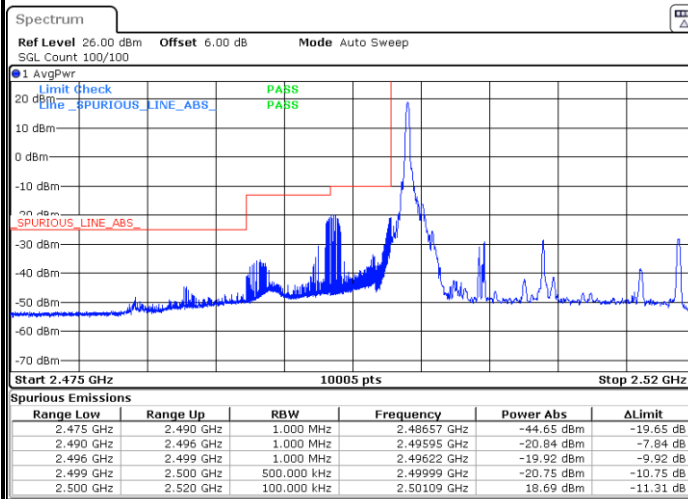
Highest Band Edge / Full RB



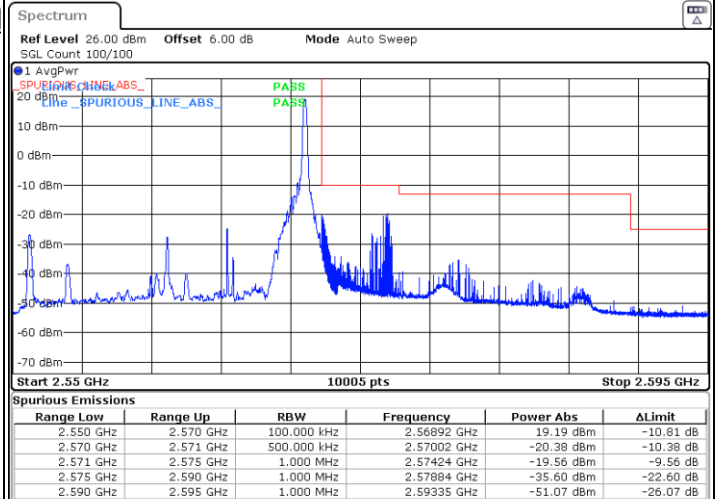


LTE Band 7 / 20MHz / 16QAM

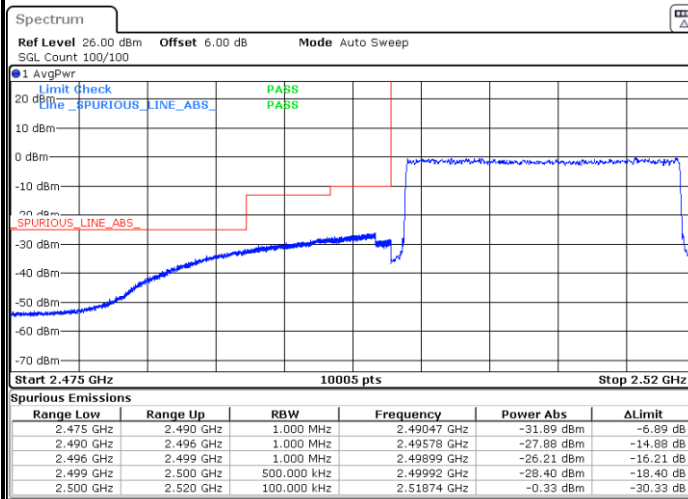
Lowest Band Edge / 1 RB



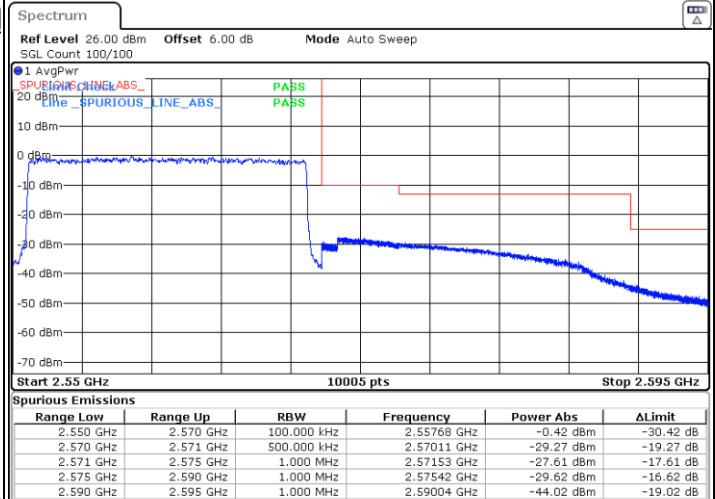
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



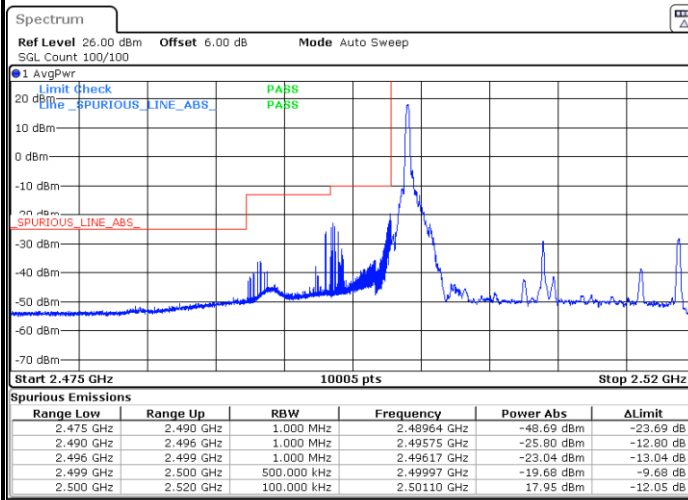
Highest Band Edge / Full RB





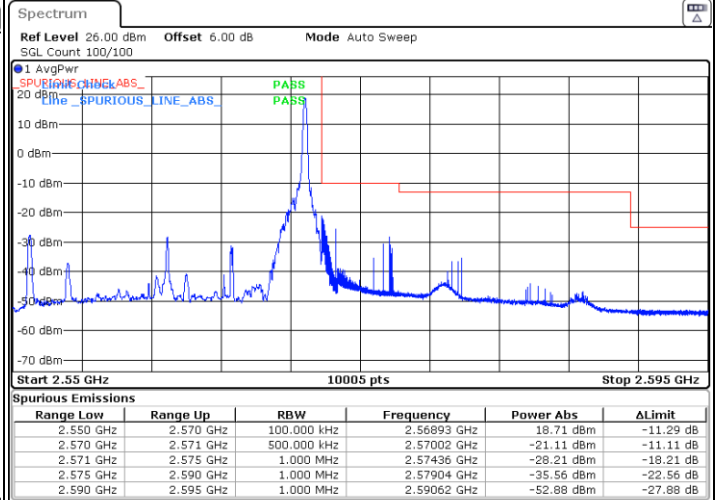
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



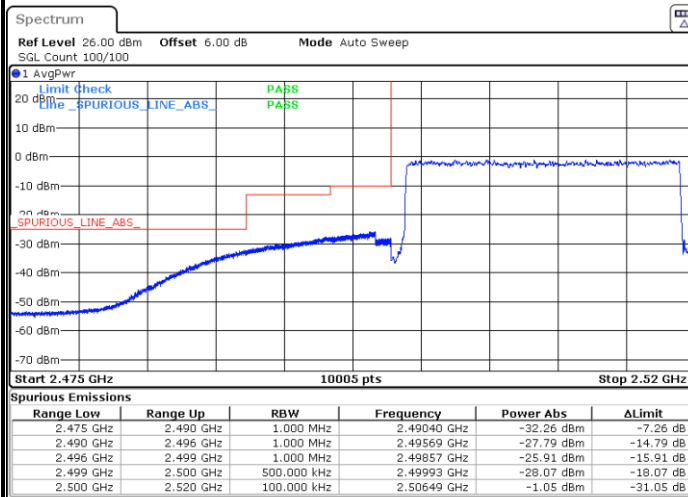
Date: 3 DEC.2019 23:33:28

Highest Band Edge / 1 RB



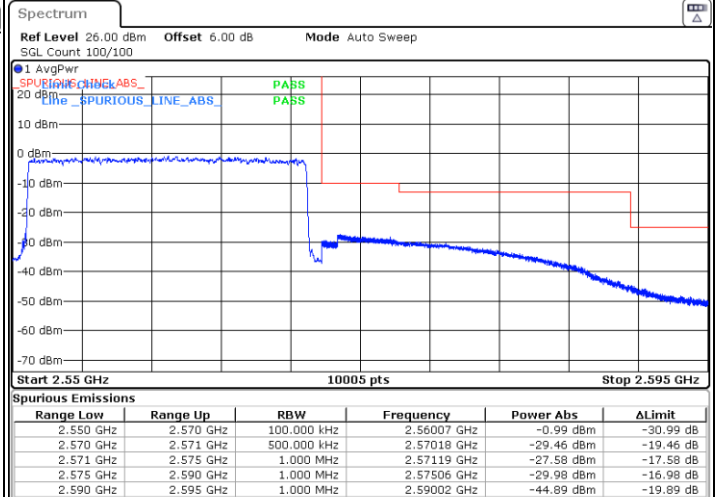
Date: 3 DEC.2019 23:14:57

Lowest Band Edge / Full RB



Date: 3 DEC.2019 23:33:05

Highest Band Edge / Full RB



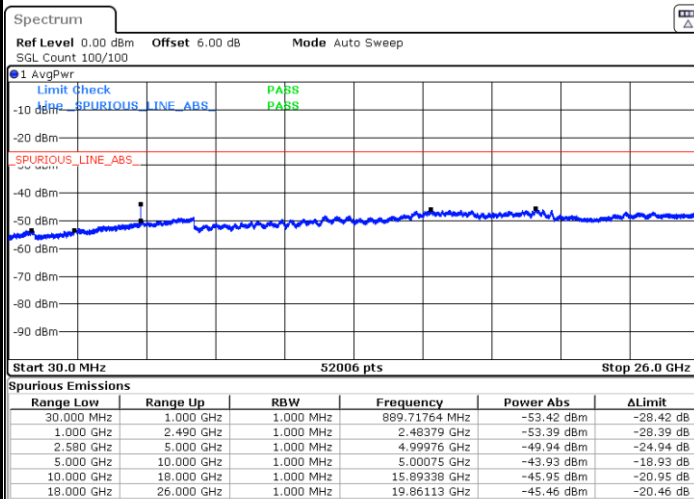
Date: 3 DEC.2019 23:13:49



Conducted Spurious Emission

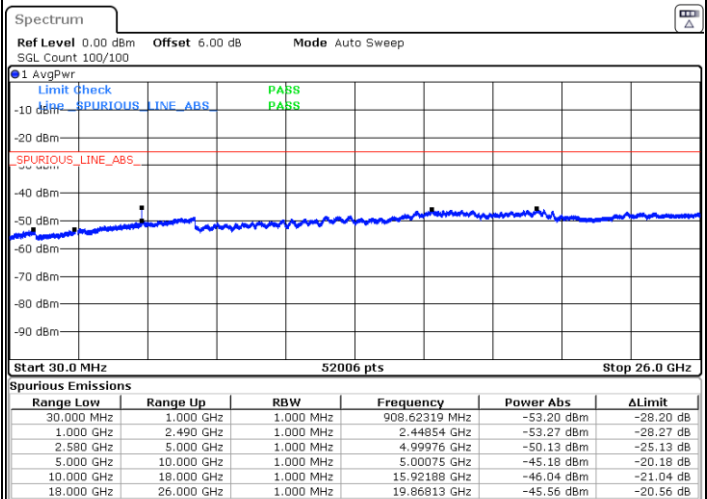
LTE Band 7 / 5MHz

Lowest Channel / QPSK



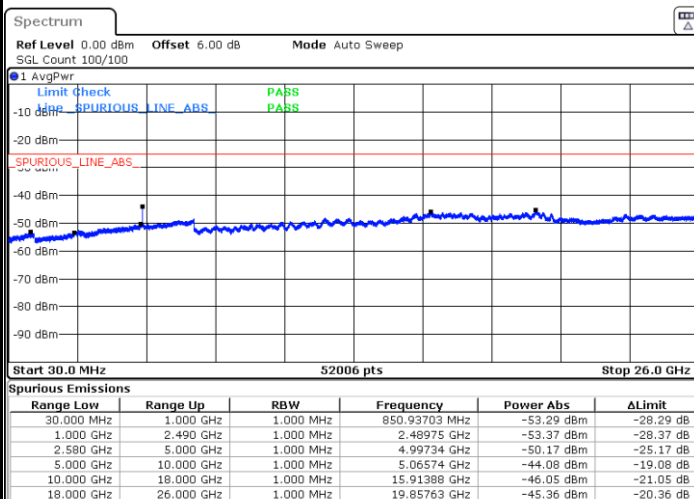
Date: 3 DEC. 2019 21:57:32

Lowest Channel / 16QAM



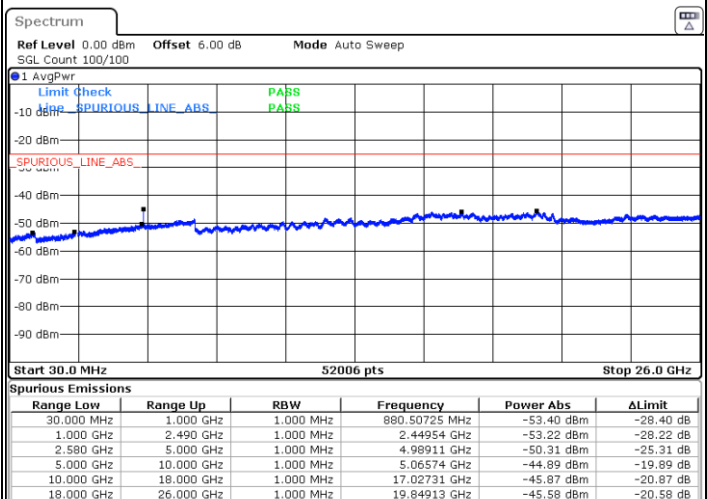
Date: 3 DEC. 2019 21:58:26

Middle Channel / QPSK



Date: 3 DEC. 2019 22:00:14

Middle Channel / 16QAM

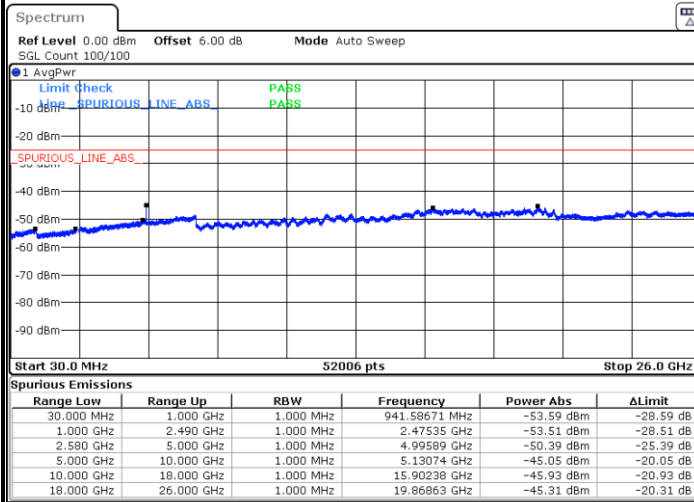


Date: 3 DEC. 2019 21:59:21



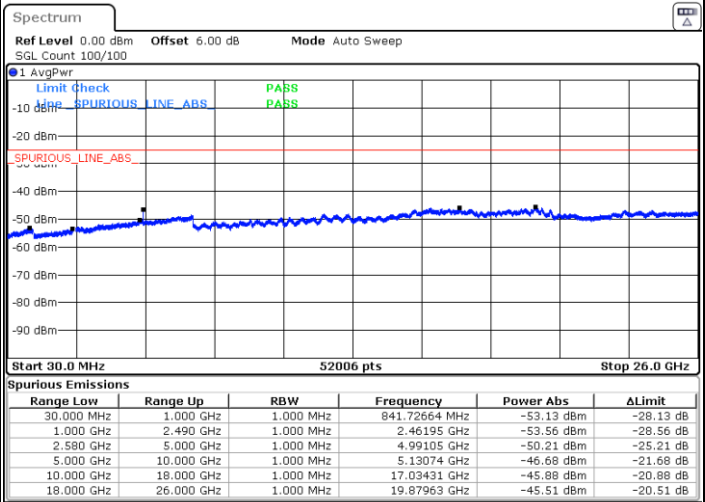
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 3 DEC 2019 22:01:09

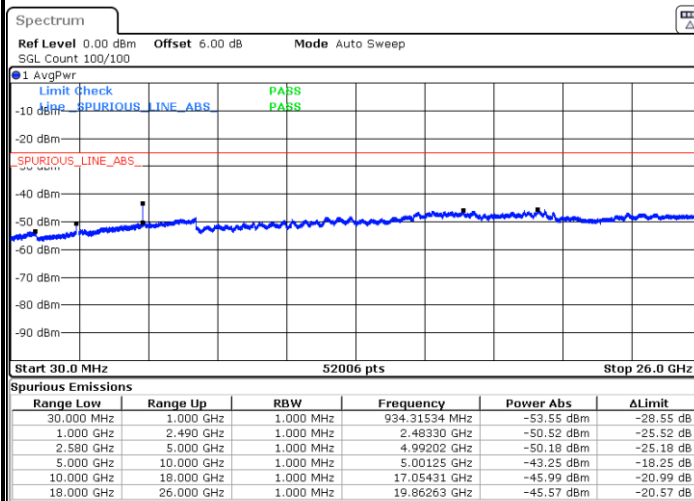
Highest Channel / 16QAM



Date: 3 DEC 2019 22:02:03

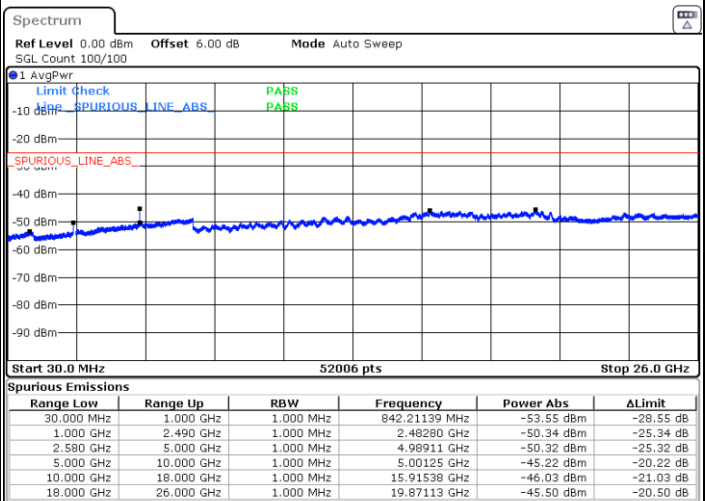
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 3 DEC 2019 22:14:03

Lowest Channel / 16QAM

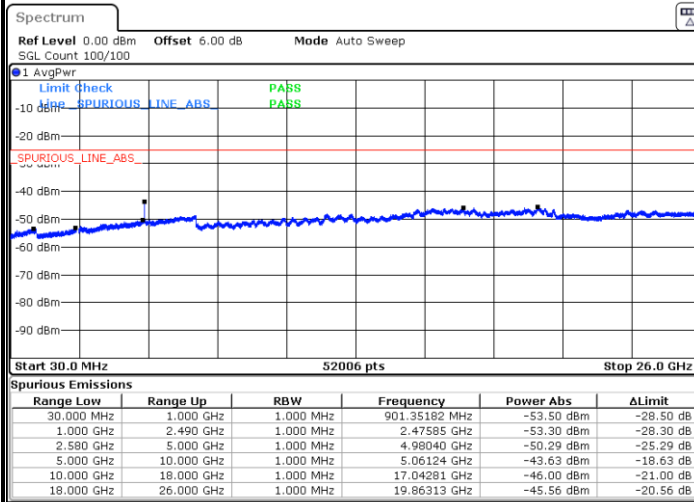


Date: 3 DEC 2019 22:14:57



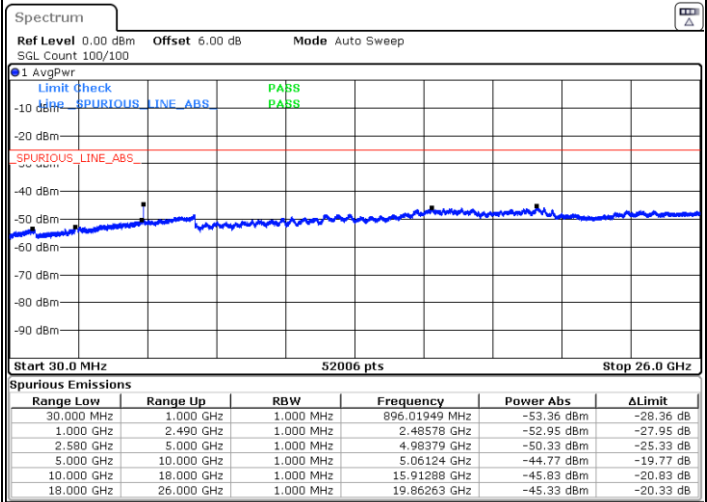
LTE Band 7 / 10MHz

Middle Channel / QPSK



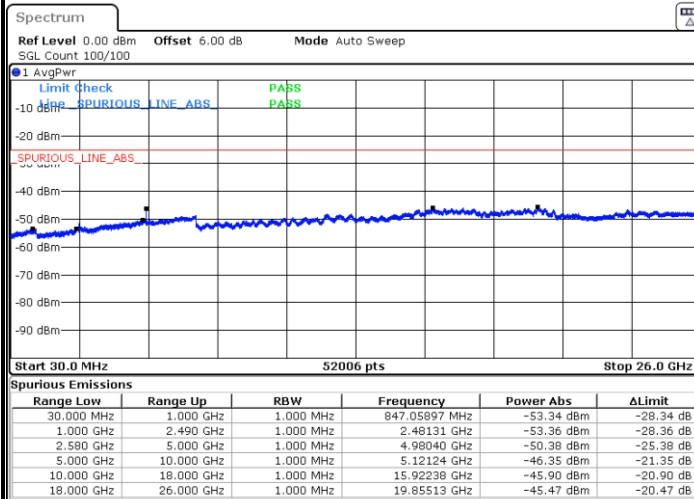
Date: 3 DEC. 2019 22:16:45

Middle Channel / 16QAM



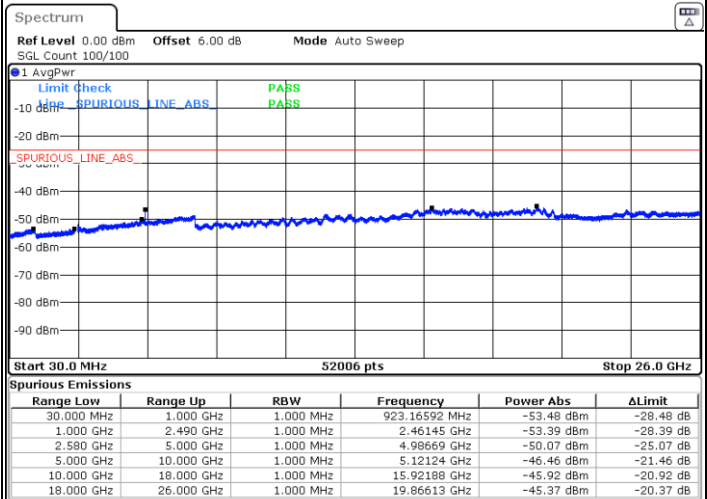
Date: 3 DEC. 2019 22:15:51

Highest Channel / QPSK



Date: 3 DEC. 2019 22:17:39

Highest Channel / 16QAM

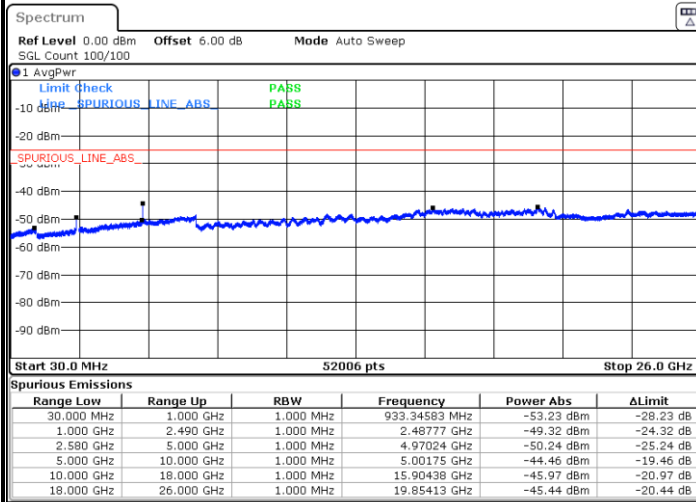


Date: 3 DEC. 2019 22:18:33



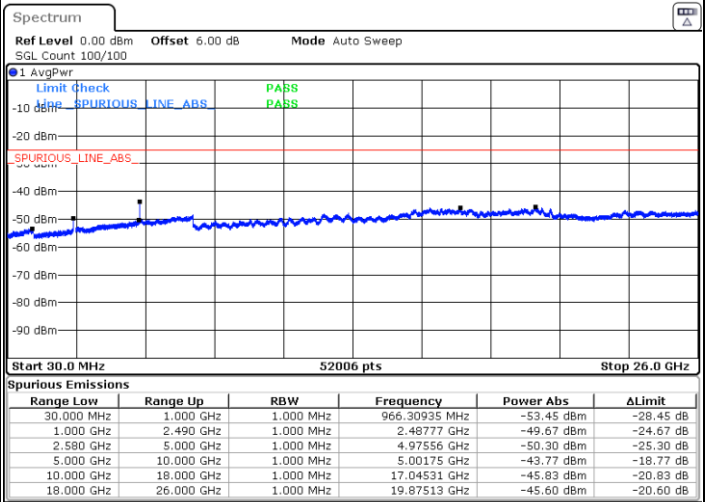
LTE Band 7 / 15MHz

Lowest Channel / QPSK



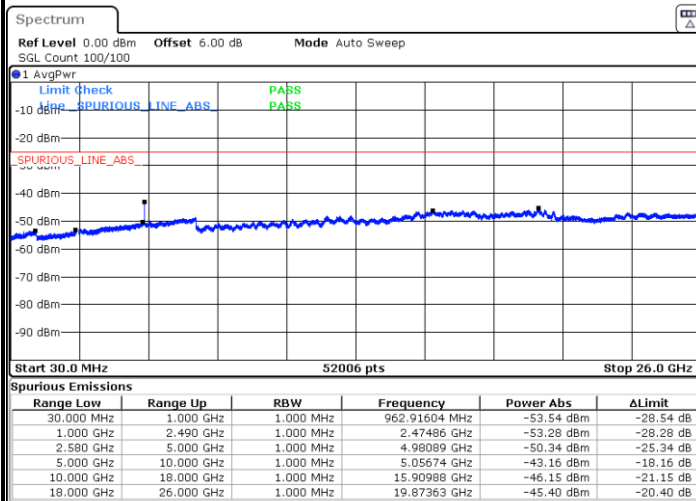
Date: 3 DEC. 2019 22:30:35

Lowest Channel / 16QAM



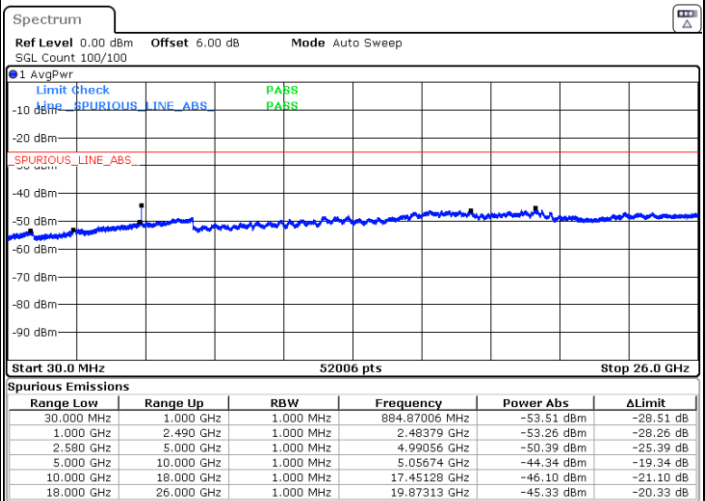
Date: 3 DEC. 2019 22:31:29

Middle Channel / QPSK



Date: 3 DEC. 2019 22:33:17

Middle Channel / 16QAM

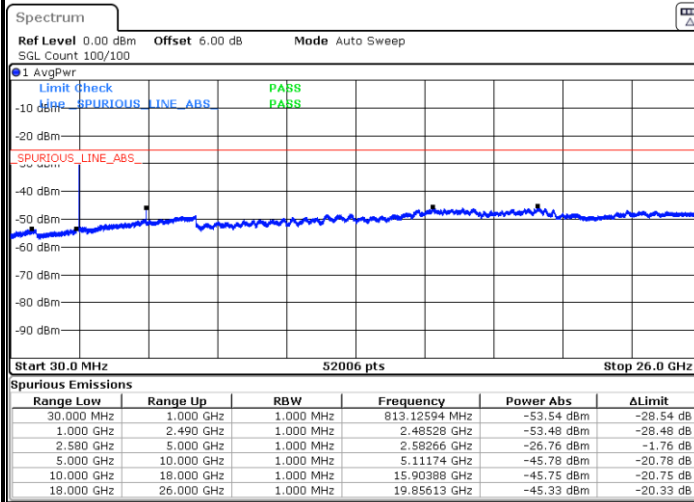


Date: 3 DEC. 2019 22:32:23



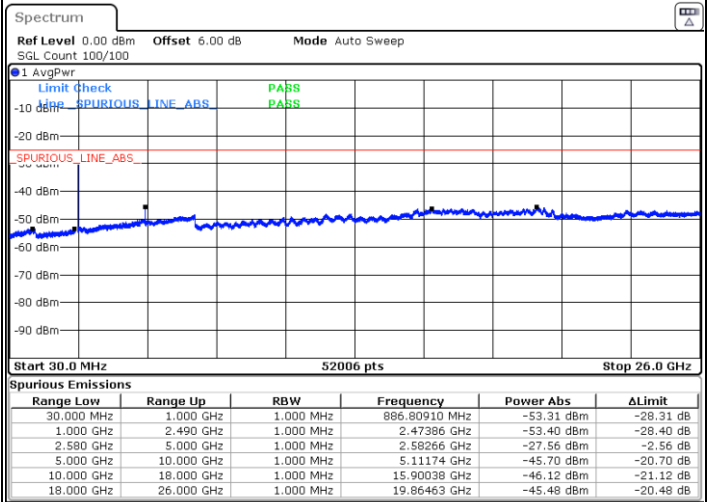
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 3 DEC 2019 22:34:10

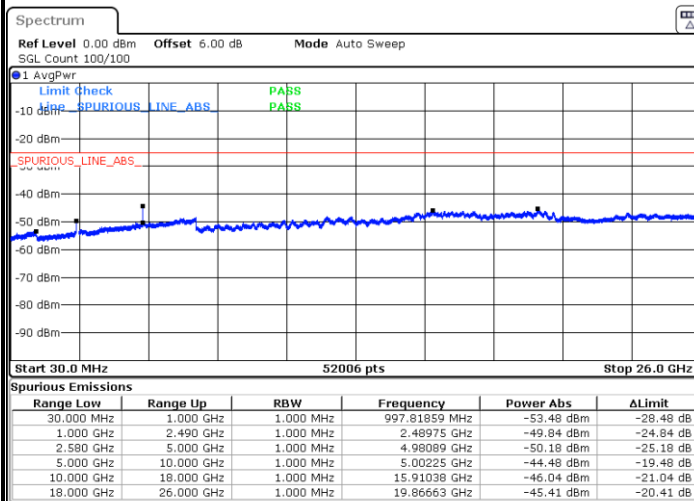
Highest Channel / 16QAM



Date: 3 DEC 2019 22:35:04

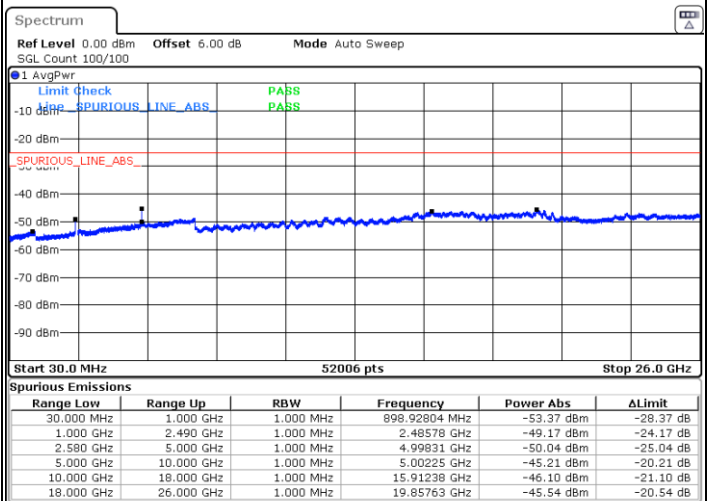
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 3 DEC 2019 22:47:04

Lowest Channel / 16QAM

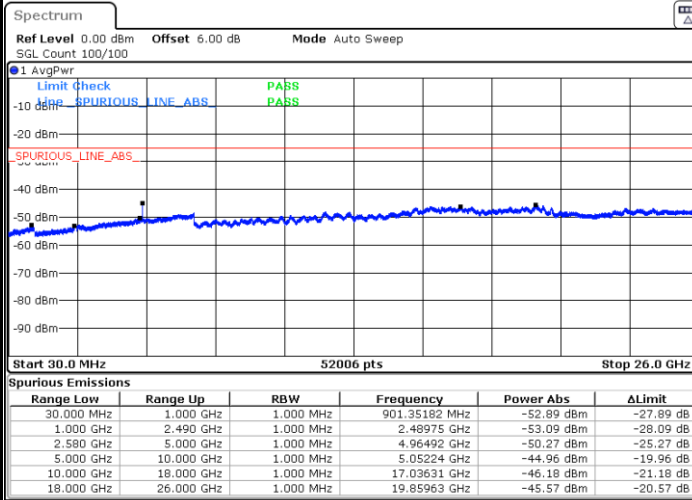


Date: 3 DEC 2019 22:47:59



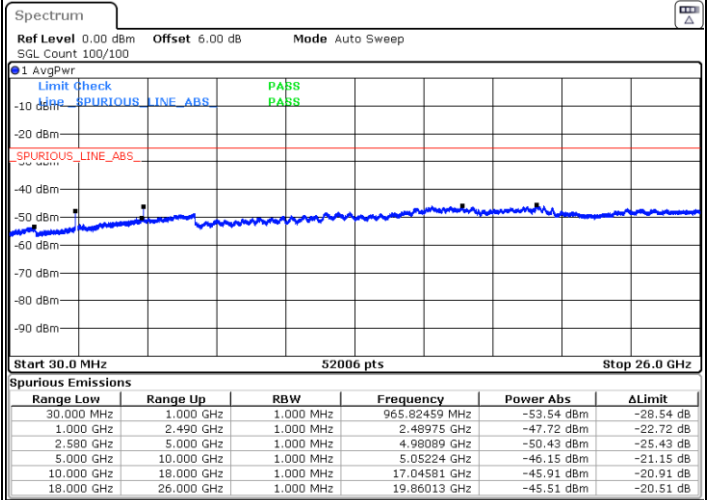
LTE Band 7 / 20MHz

Middle Channel / QPSK



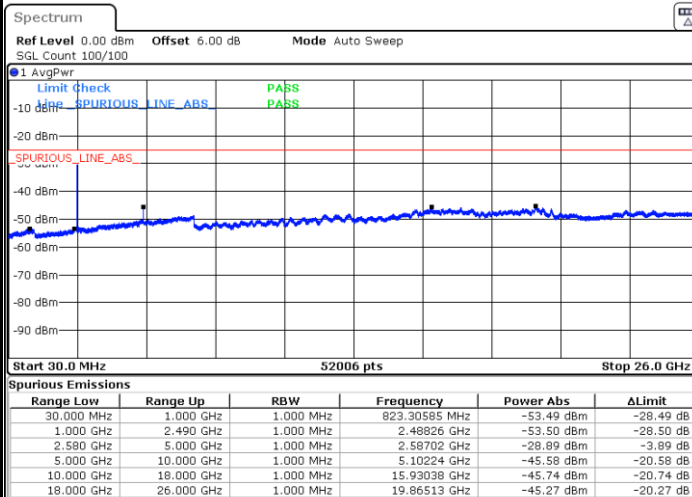
Date: 3 DEC. 2019 22:49:46

Middle Channel / 16QAM



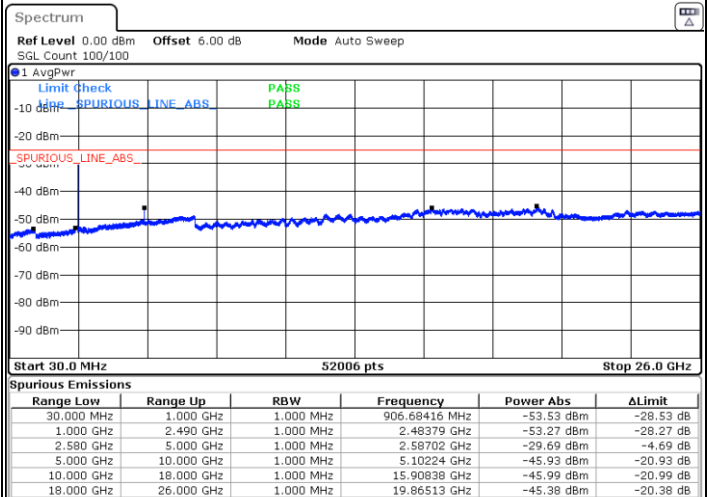
Date: 3 DEC. 2019 22:48:53

Highest Channel / QPSK



Date: 3 DEC. 2019 22:50:41

Highest Channel / 16QAM

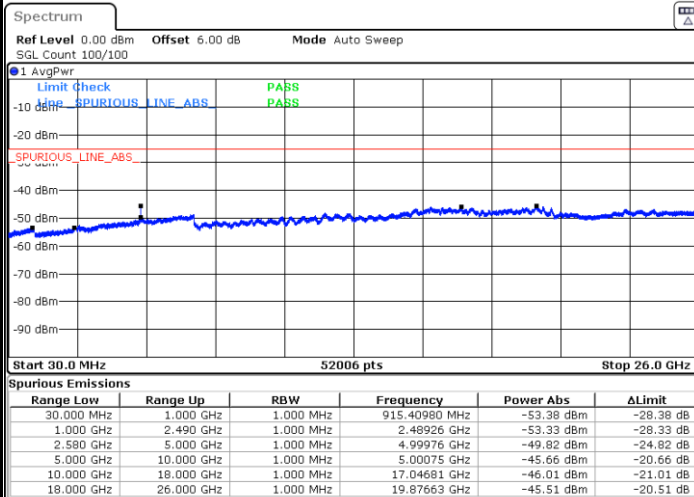


Date: 3 DEC. 2019 22:51:35



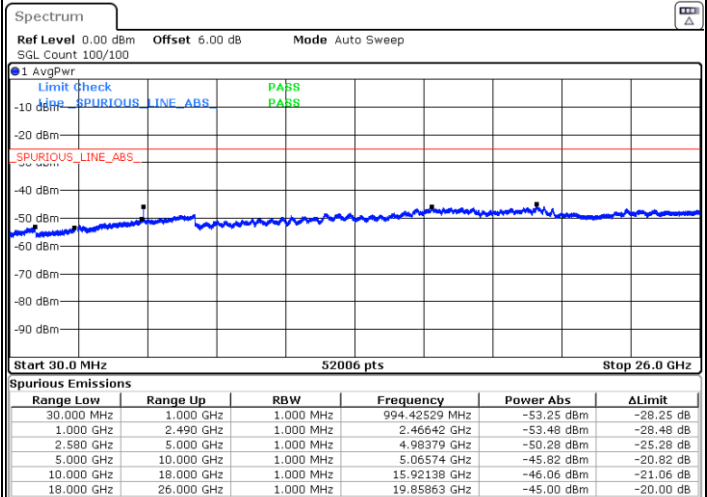
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



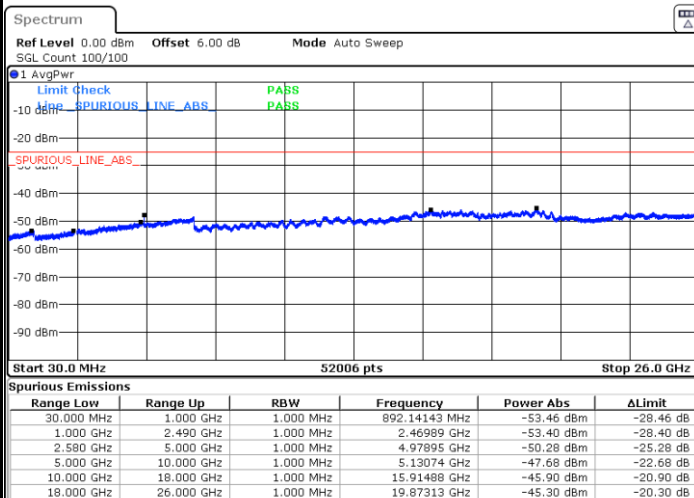
Date: 3 DEC. 2019 22:55:38

Middle Channel / 64QAM



Date: 3 DEC. 2019 22:56:32

Highest Channel / 64QAM

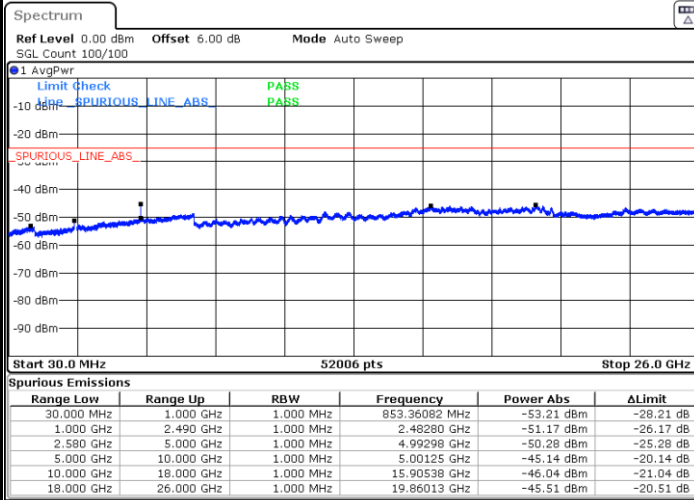


Date: 3 DEC. 2019 22:57:25



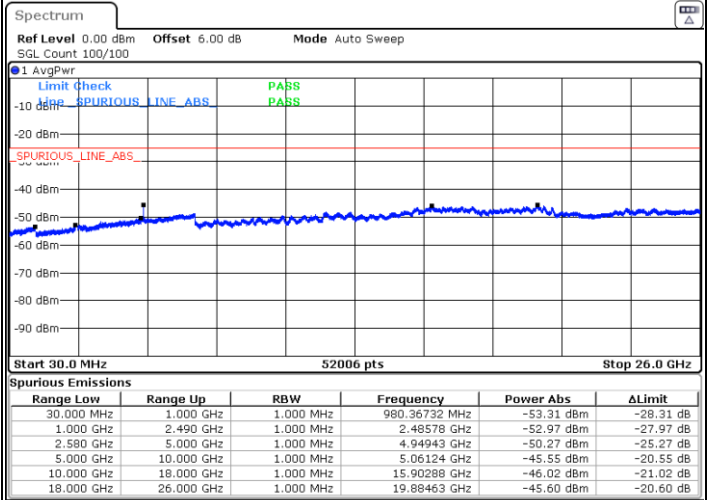
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



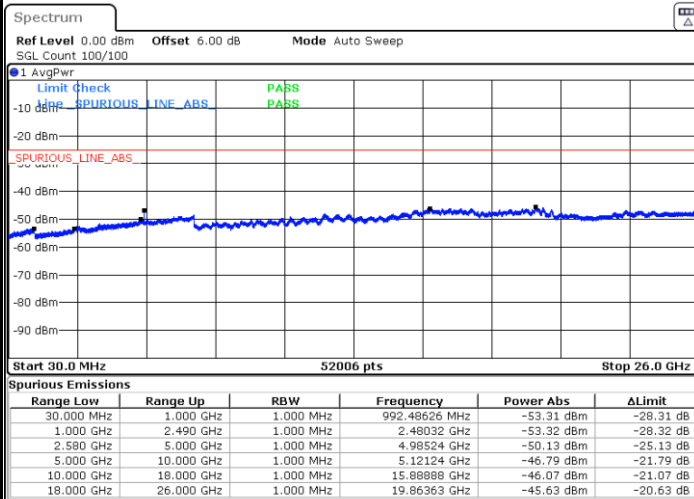
Date: 3 DEC. 2019 23:01:36

Middle Channel / 64QAM



Date: 3 DEC. 2019 23:02:30

Highest Channel / 64QAM

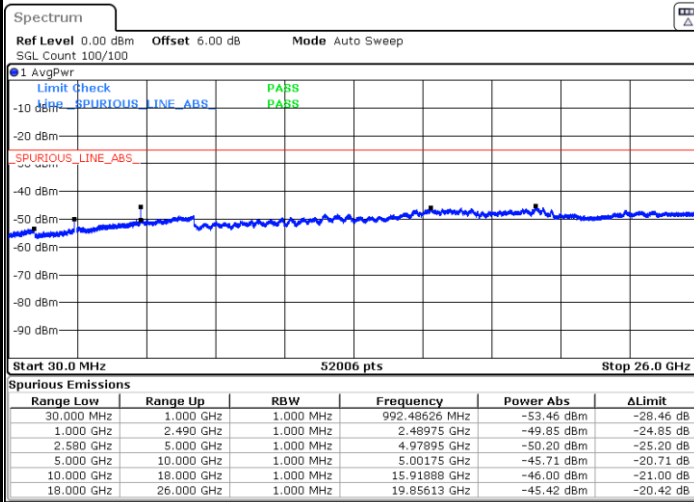


Date: 3 DEC. 2019 23:03:24



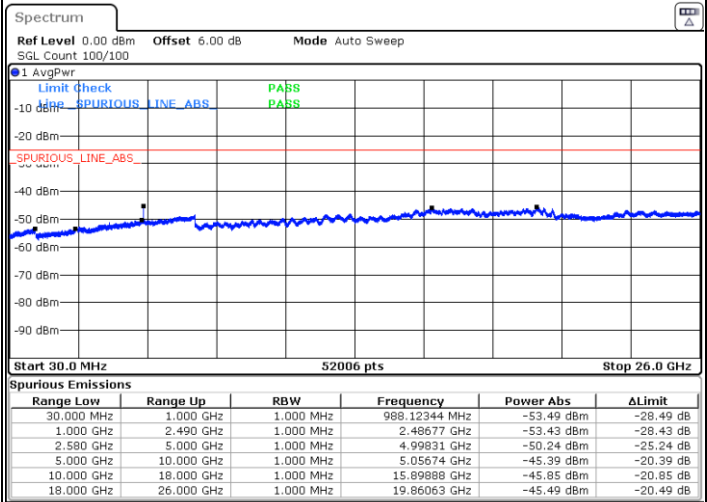
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



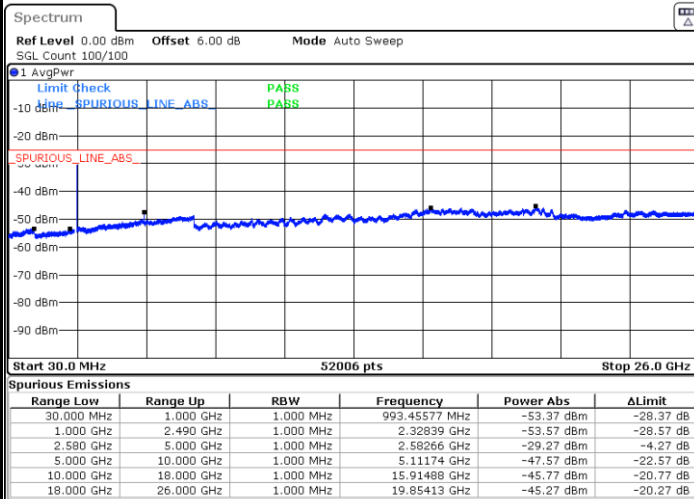
Date: 3 DEC. 2019 23:09:52

Middle Channel / 64QAM



Date: 3 DEC. 2019 23:10:46

Highest Channel / 64QAM

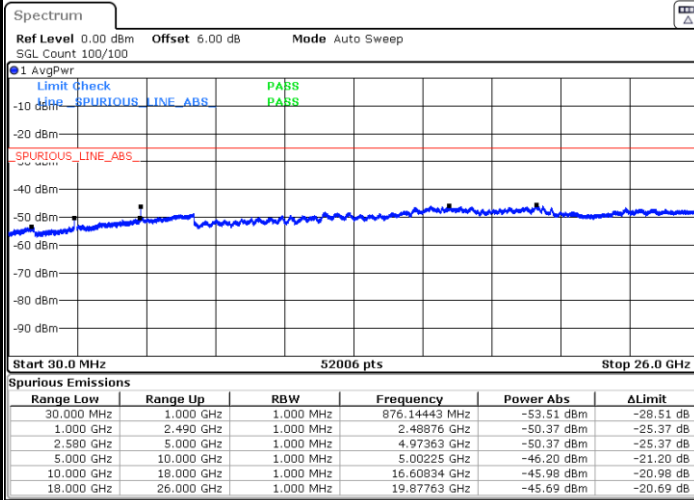


Date: 3 DEC. 2019 23:11:40



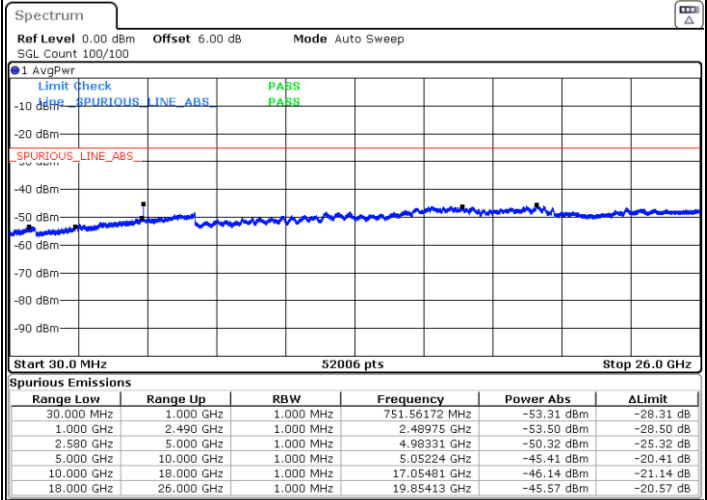
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



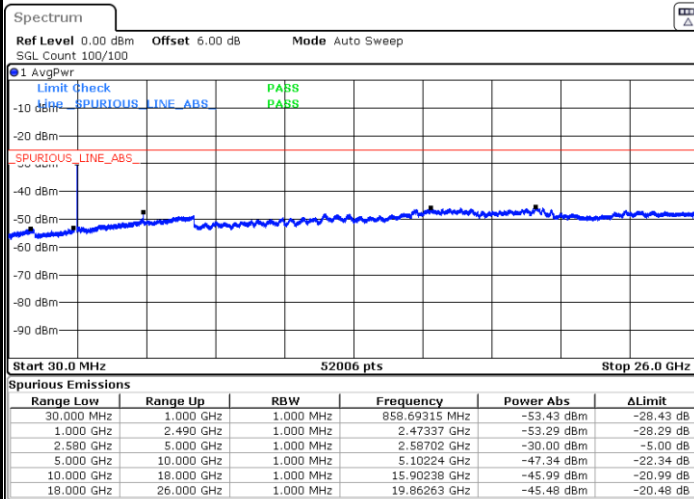
Date: 3 DEC. 2019 23:15:50

Middle Channel / 64QAM



Date: 3 DEC. 2019 23:16:44

Highest Channel / 64QAM



Date: 3 DEC. 2019 23:17:38

**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 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 2 / 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	3741	-56.53	-13	-43.53	-68.79	2.64	14.90	H
	5613	-55.20	-13	-42.20	-67.06	2.94	14.80	H
	7488	-50.26	-13	-37.26	-60.03	3.39	13.16	H
	3741	-55.99	-13	-42.99	-68.25	2.64	14.90	V
	5613	-54.82	-13	-41.82	-66.68	2.94	14.80	V
	7488	-49.08	-13	-36.08	-58.85	3.39	13.16	V

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

LTE Band 4 / 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	3447	-60.79	-13	-47.79	-71.53	2.604	13.34	H
	5172	-56.17	-13	-43.17	-66.68	3.011	13.52	H
	6896	-52.62	-13	-39.62	-62.82	3.271	13.47	H
	3447	-60.18	-13	-47.18	-70.92	2.604	13.34	V
	5172	-55.84	-13	-42.84	-66.35	3.011	13.52	V
	6896	-52.57	-13	-39.57	-62.77	3.271	13.47	V

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



LTE Band 5 / 10MHz / 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	1664	-67.75	-13	-54.75	-74.72	1.58	10.70	H
	2496	-63.64	-13	-50.64	-71.89	2.102	12.50	H
	3330	-63.76	-13	-50.76	-72.65	2.856	13.90	H
	1664	-68.16	-13	-55.16	-75.13	1.58	10.70	V
	2496	-62.63	-13	-49.63	-70.88	2.10	12.50	V
	3330	-63.53	-13	-50.53	-72.42	2.86	13.90	V

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

LTE Band 7 / 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	5052	-63.90	-25	-38.90	-74.00	3.54	13.64	H
	7576	-57.65	-25	-32.65	-67.08	4.10	13.52	H
	10100	-54.93	-25	-29.93	-64.81	4.51	14.39	H
	5052	-64.24	-25	-39.24	-74.34	3.54	13.64	V
	7576	-57.31	-25	-32.31	-66.74	4.10	13.52	V
	10100	-56.32	-25	-31.32	-66.20	4.51	14.39	V

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