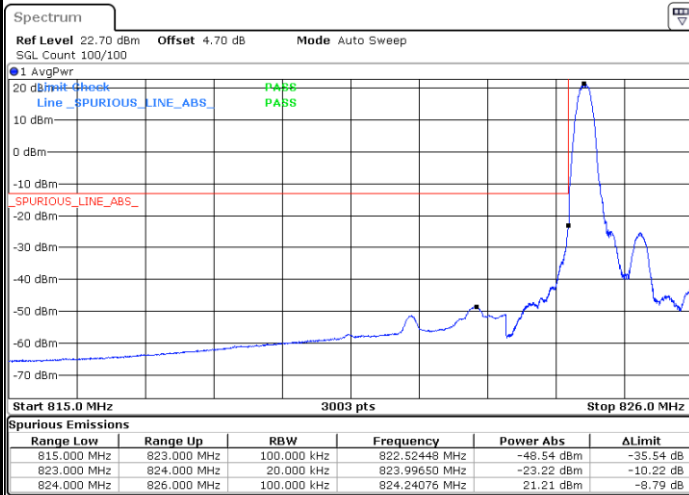




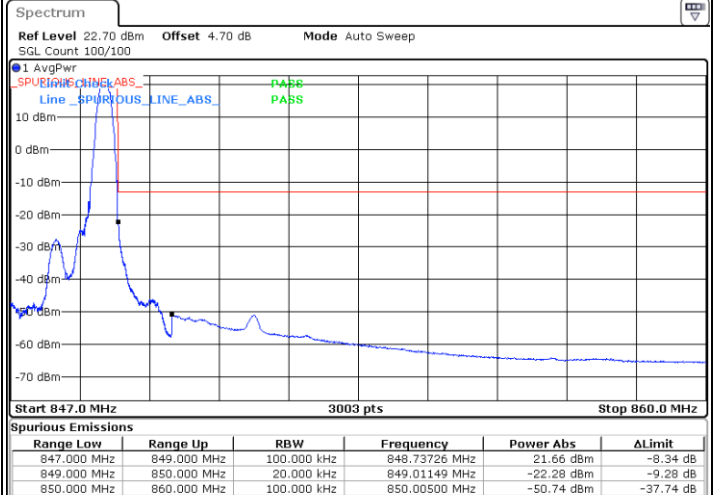
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

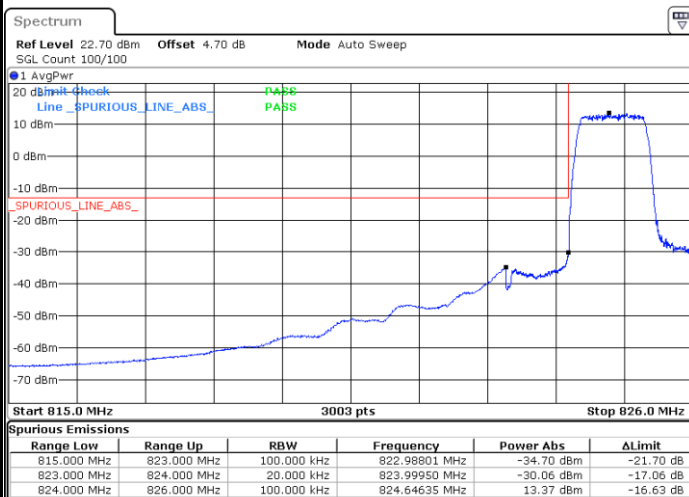
Lowest Band Edge / 1RB



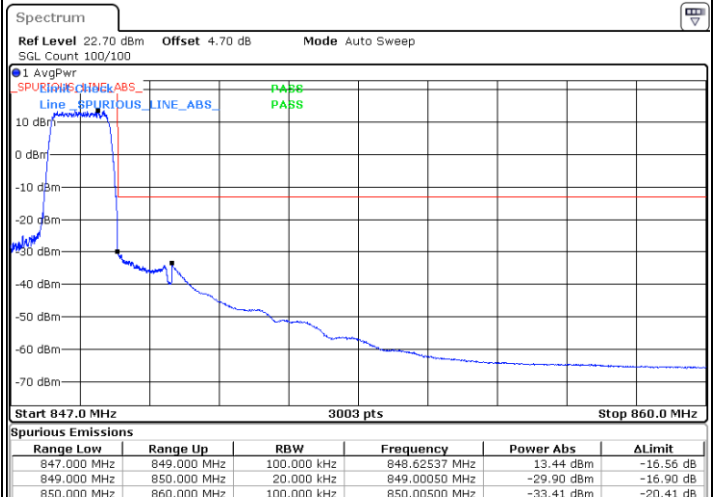
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



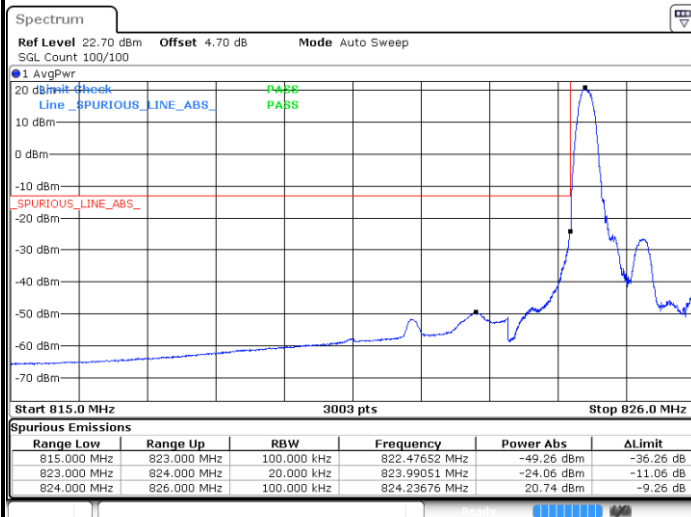
Highest Band Edge / Full RB



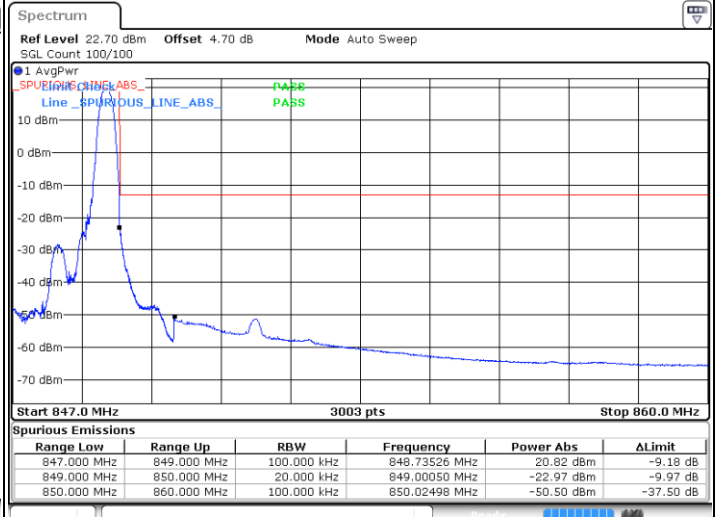


LTE Band 5 / 1.4MHz / 16QAM

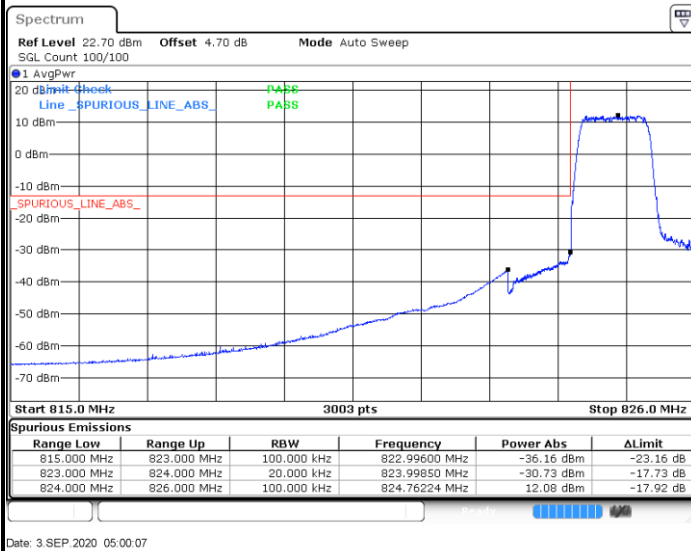
Lowest Band Edge / 1 RB



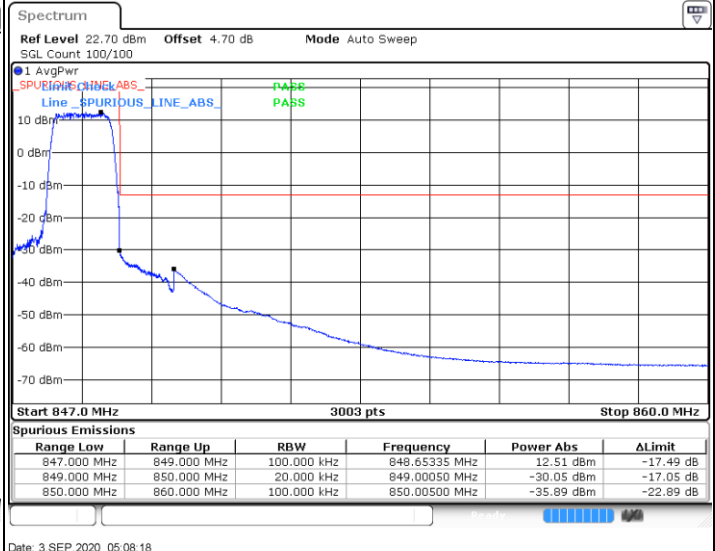
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



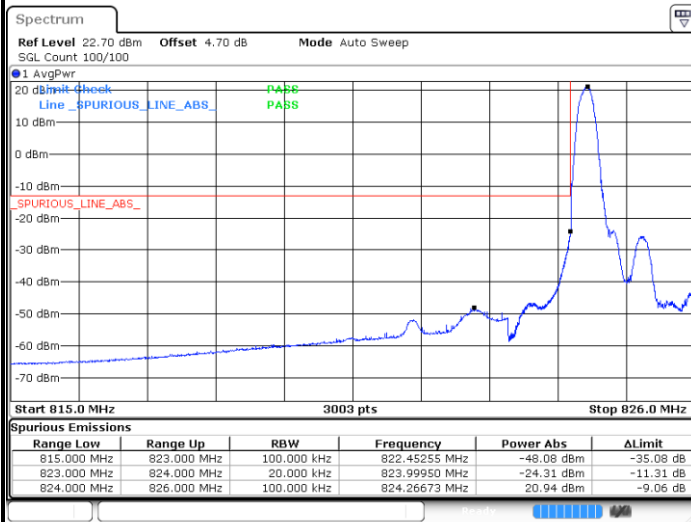
Highest Band Edge / Full RB



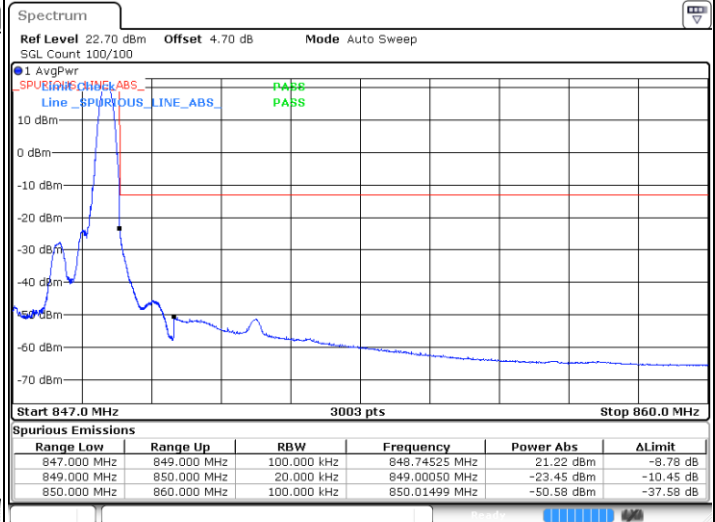


LTE Band 5 / 1.4MHz / 64QAM

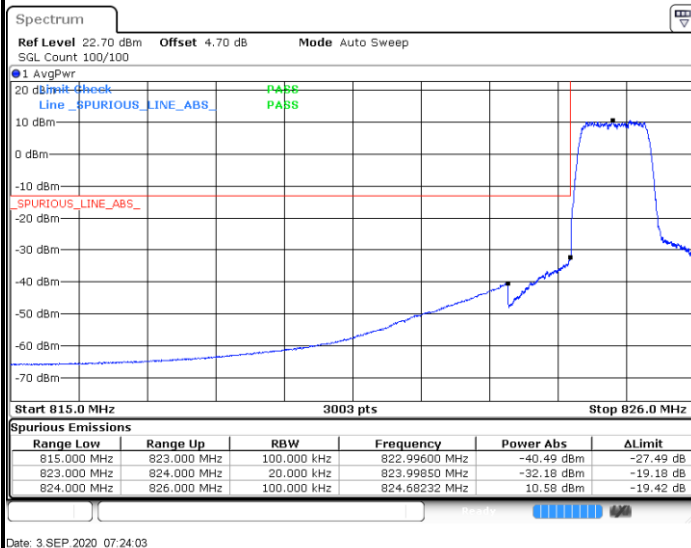
Lowest Band Edge / 1 RB



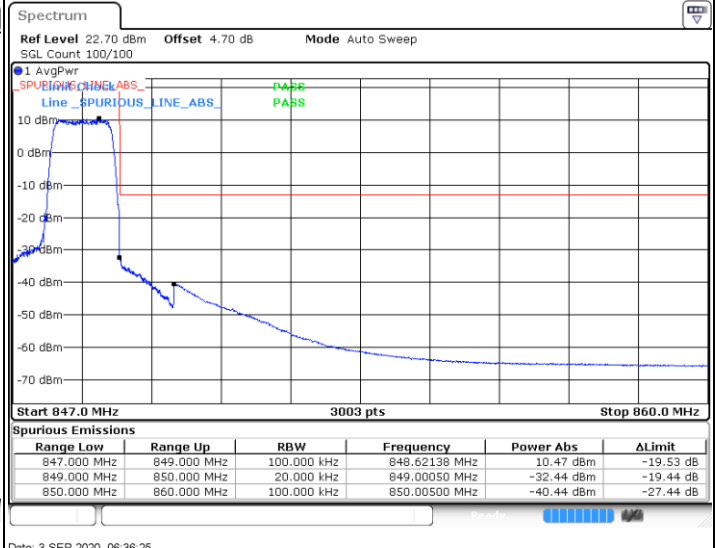
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



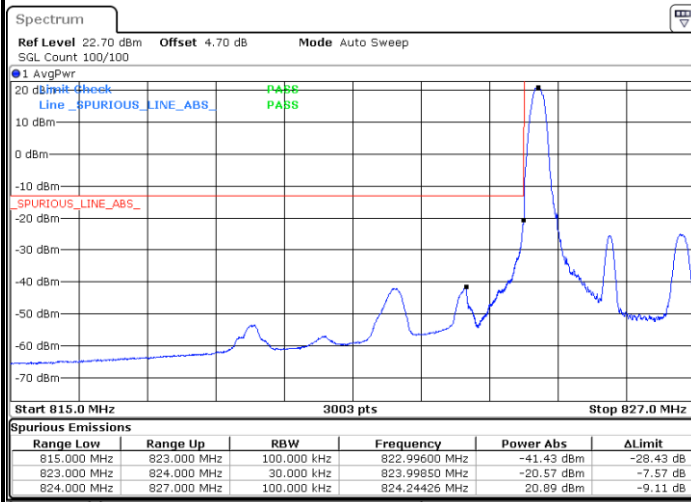
Highest Band Edge / Full RB



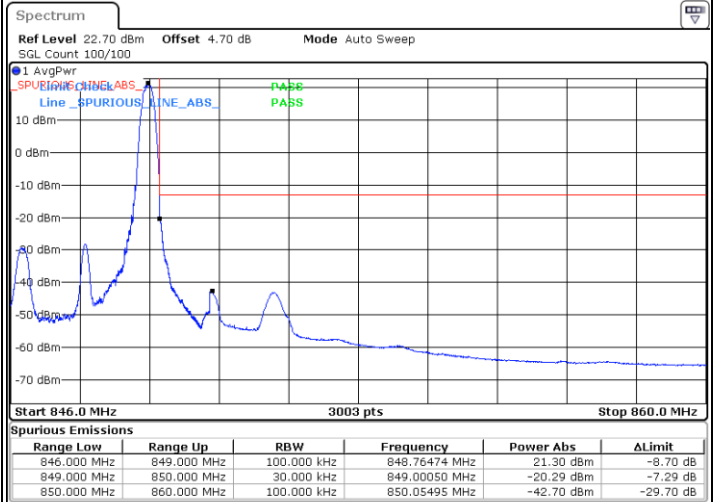


LTE Band 5 / 3MHz / QPSK

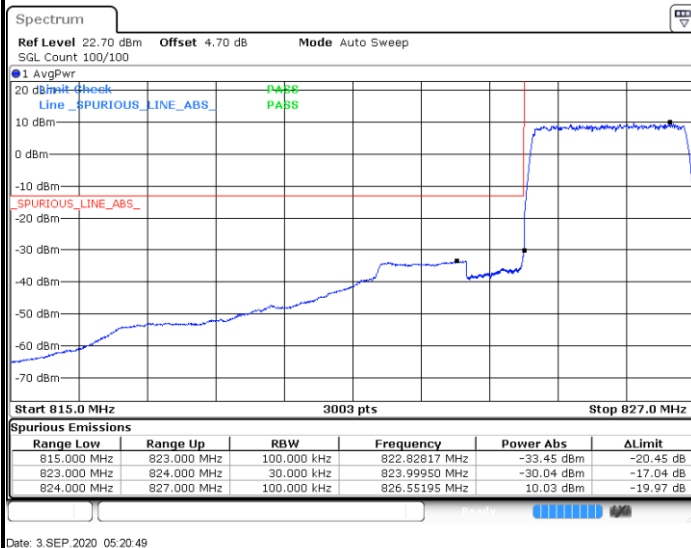
Lowest Band Edge / 1RB



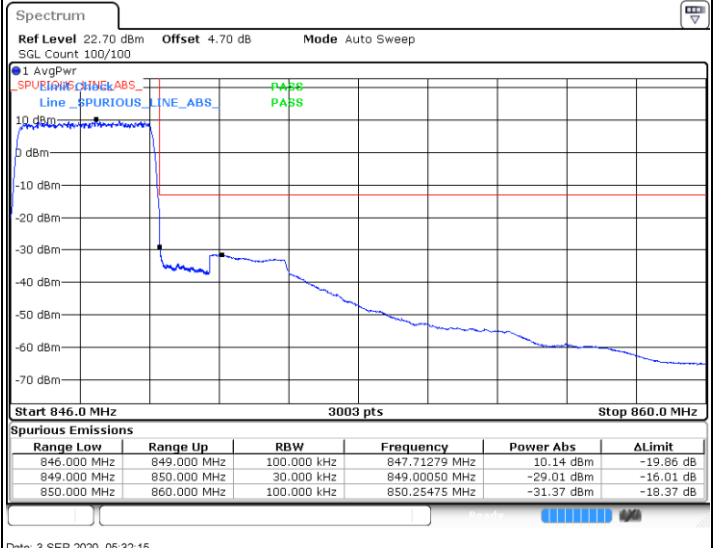
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



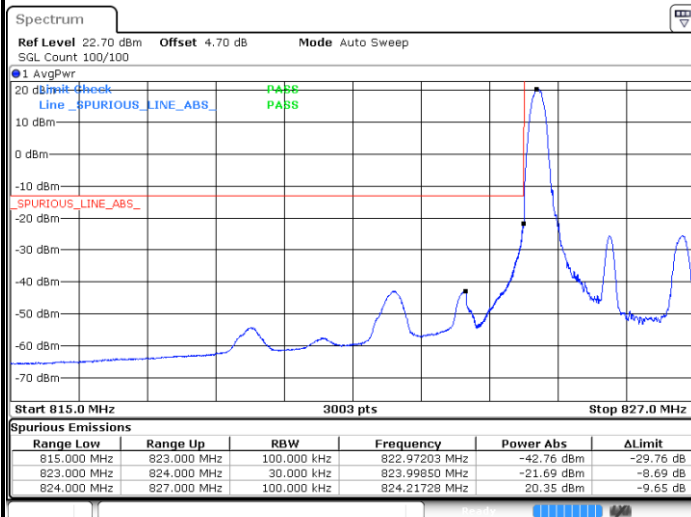
Highest Band Edge / Full RB



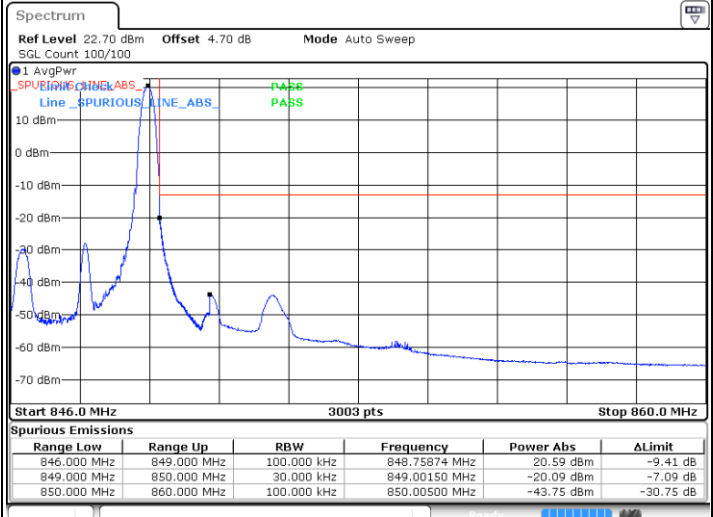


LTE Band 5 / 3MHz / 16QAM

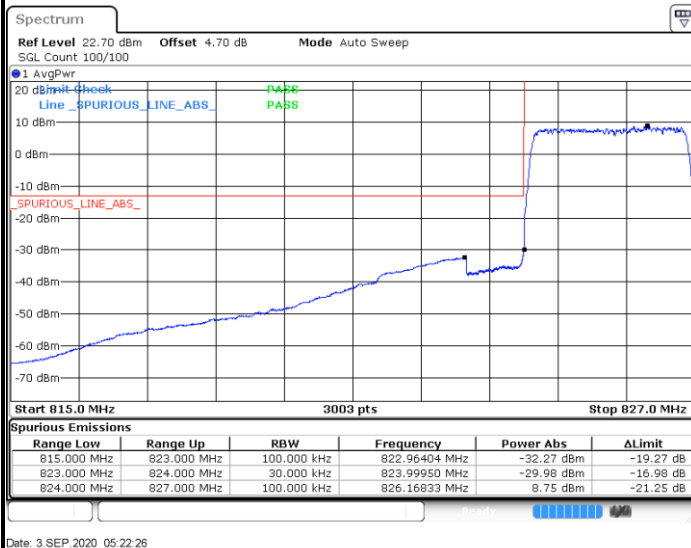
Lowest Band Edge / 1 RB



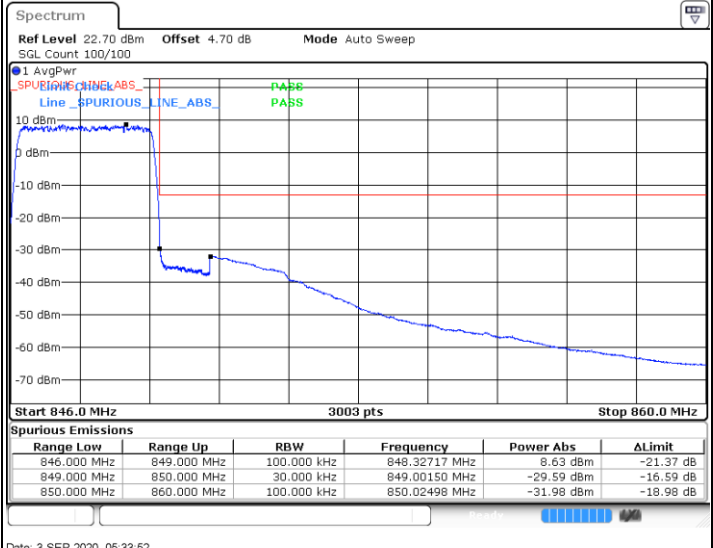
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



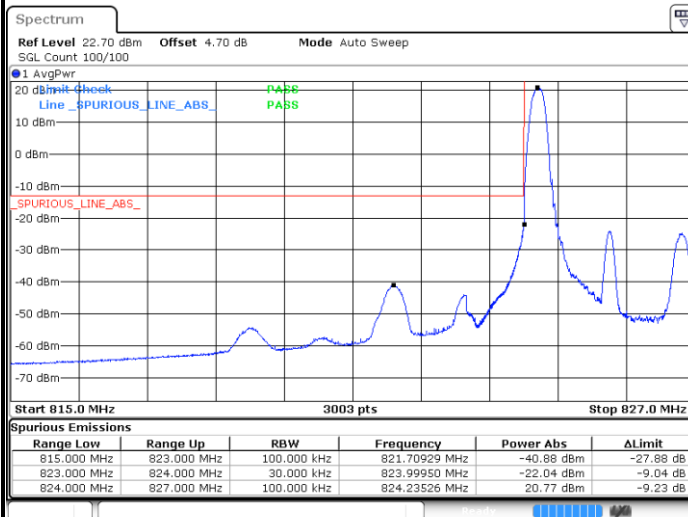
Highest Band Edge / Full RB



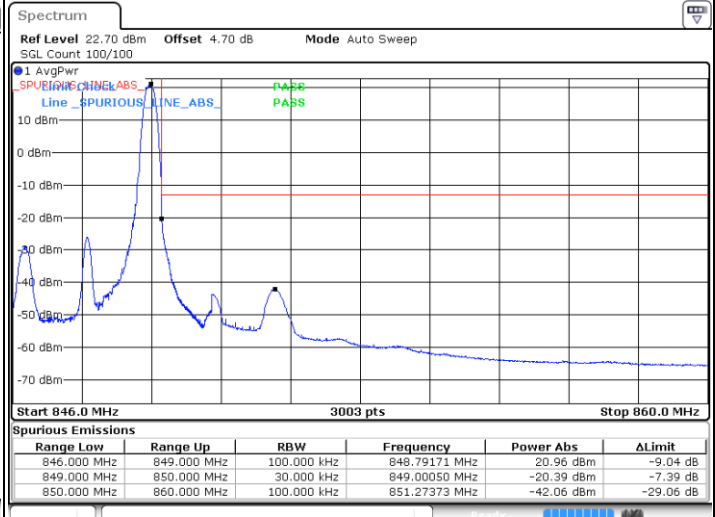


LTE Band 5 / 3MHz / 64QAM

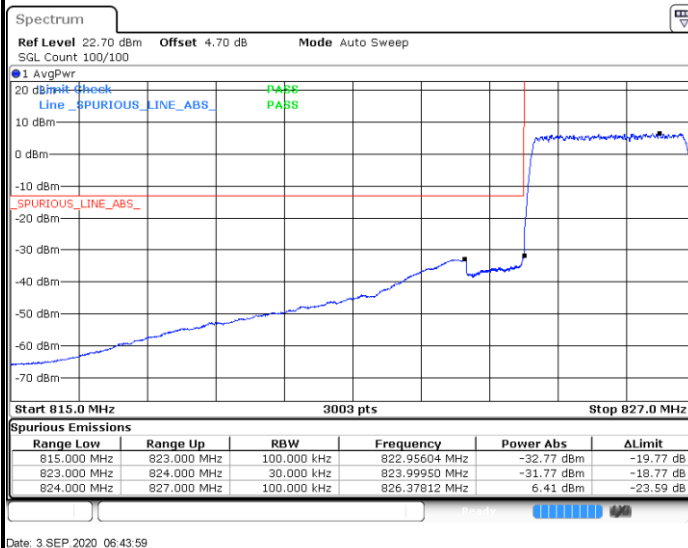
Lowest Band Edge / 1 RB



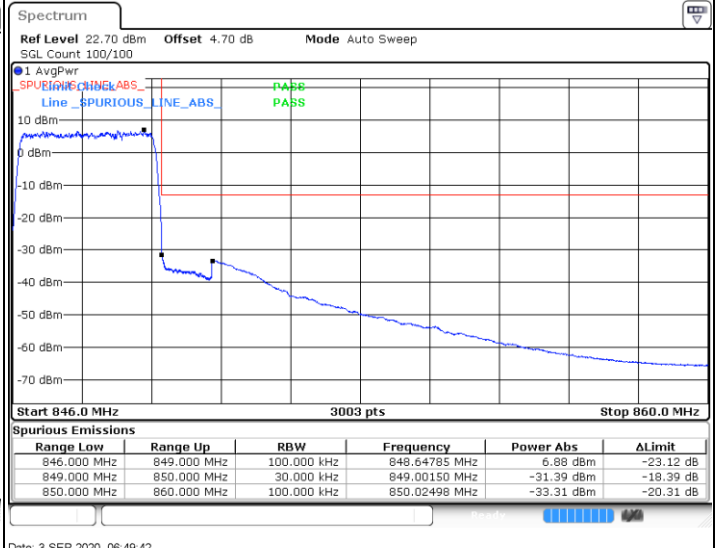
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



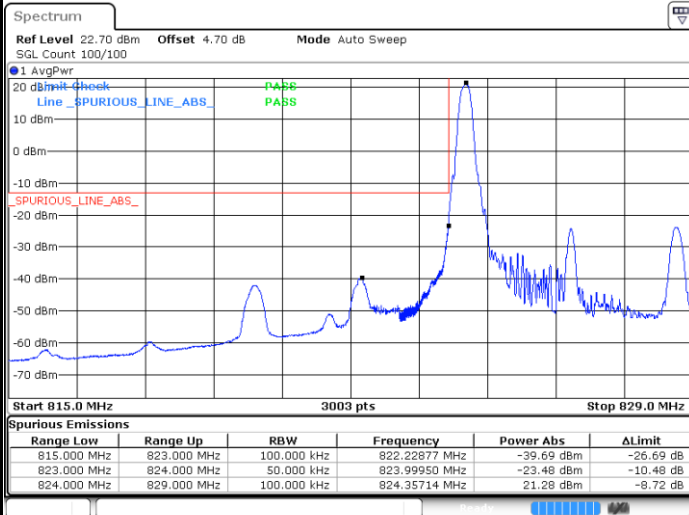
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / QPSK

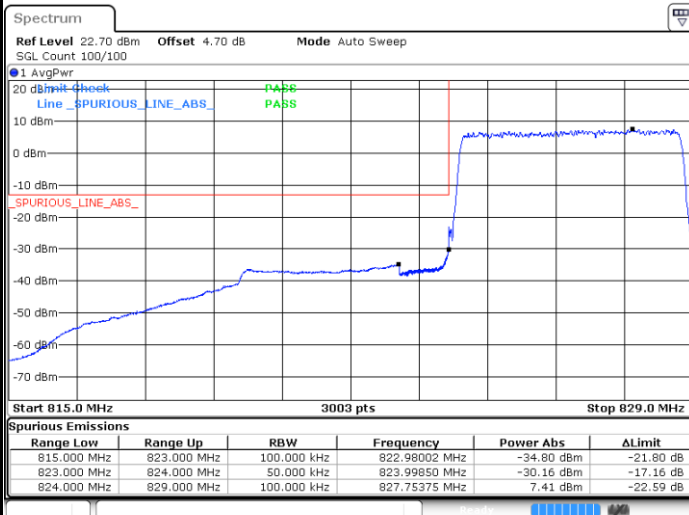
Lowest Band Edge / 1 RB



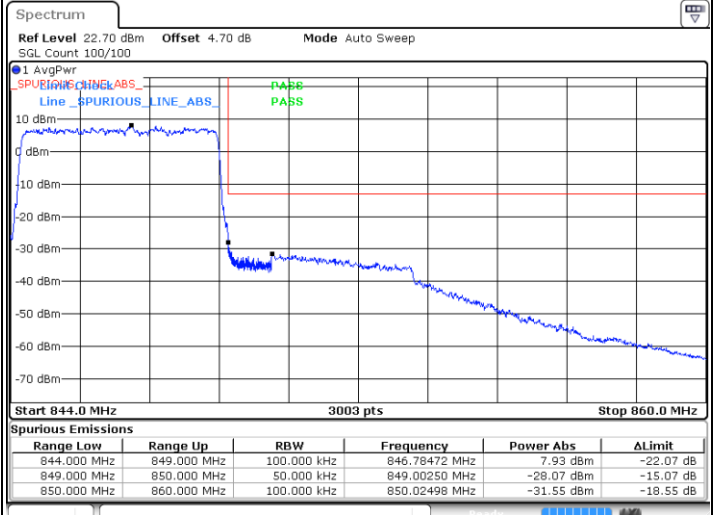
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



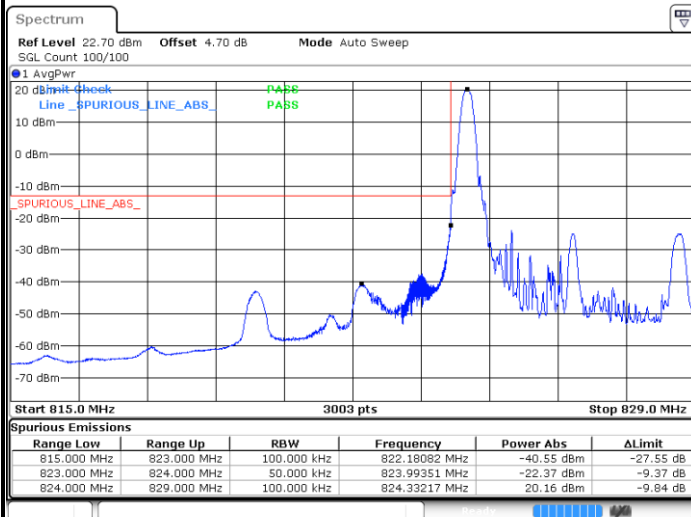
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 16QAM

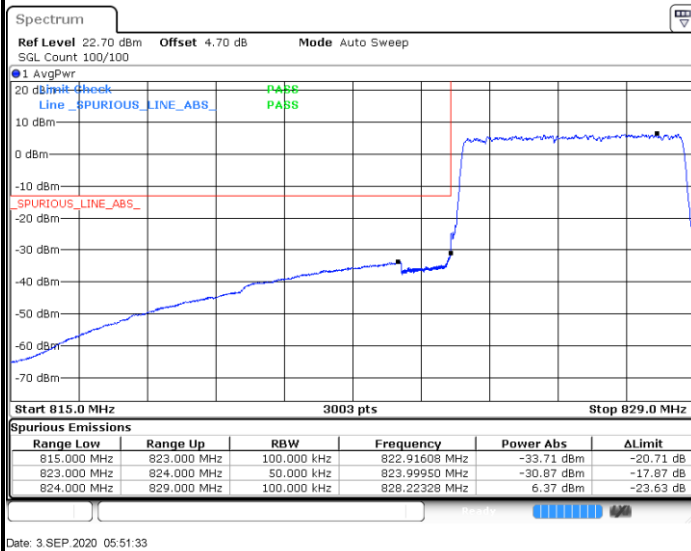
Lowest Band Edge / 1RB



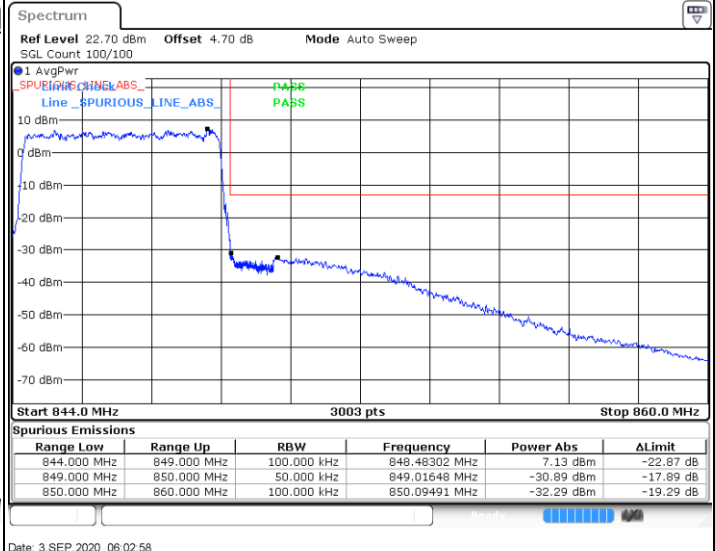
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



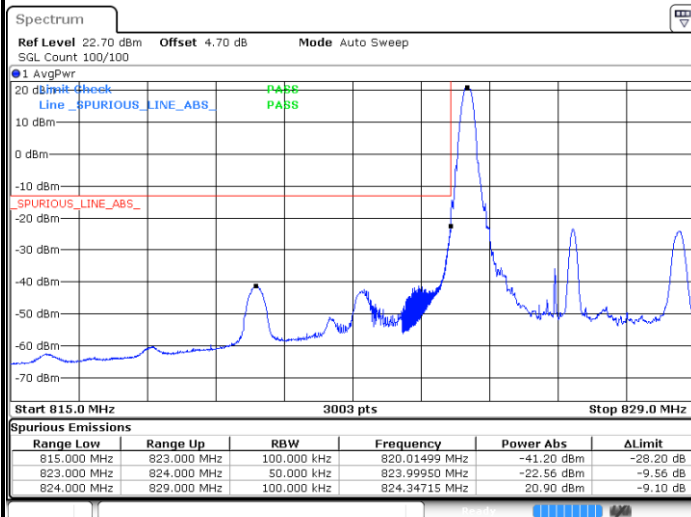
Highest Band Edge / Full RB



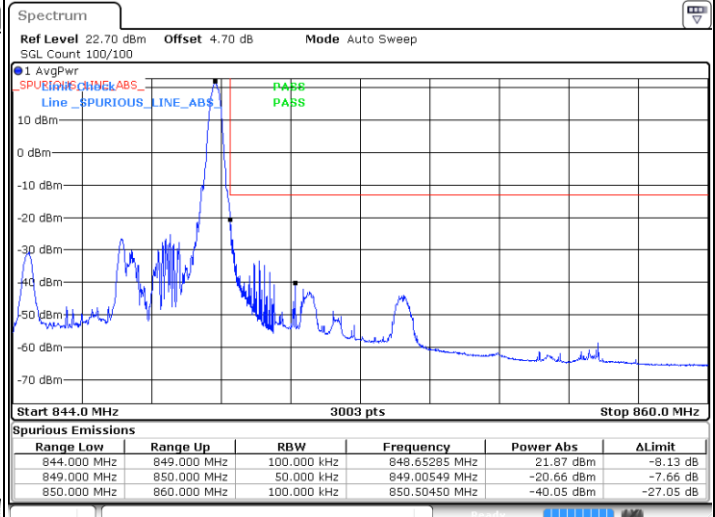


LTE Band 5 / 5MHz / 64QAM

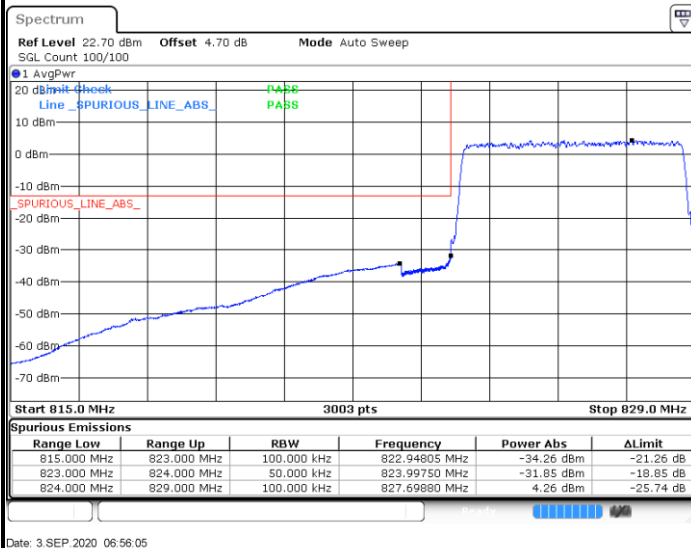
Lowest Band Edge / 1RB



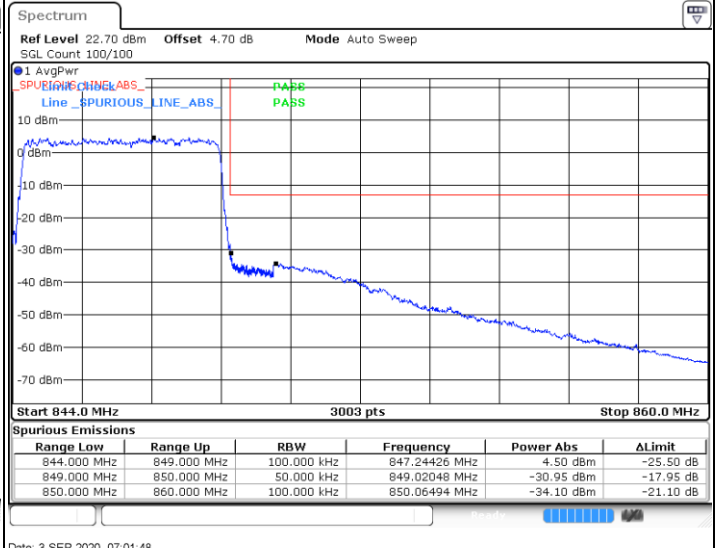
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



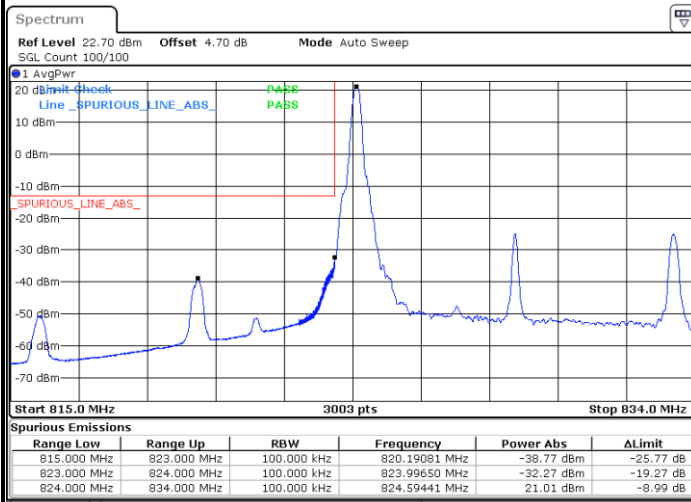
Highest Band Edge / Full RB



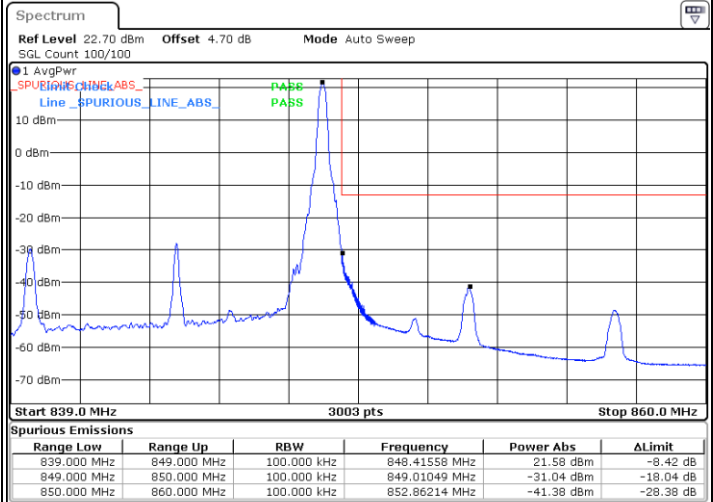


LTE Band 5 / 10MHz / QPSK

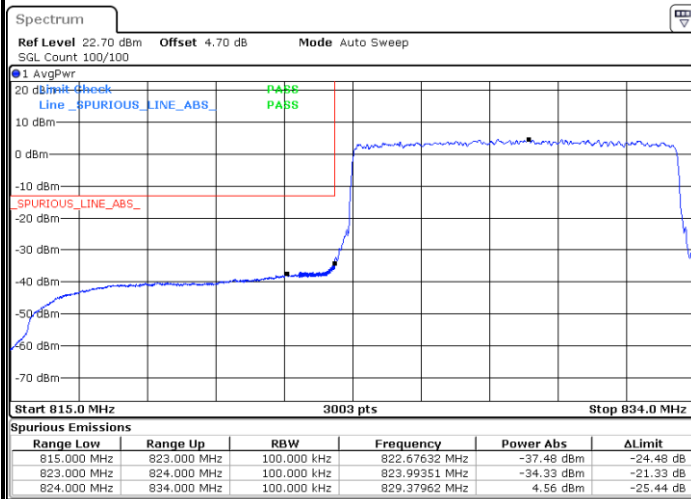
Lowest Band Edge / 1 RB



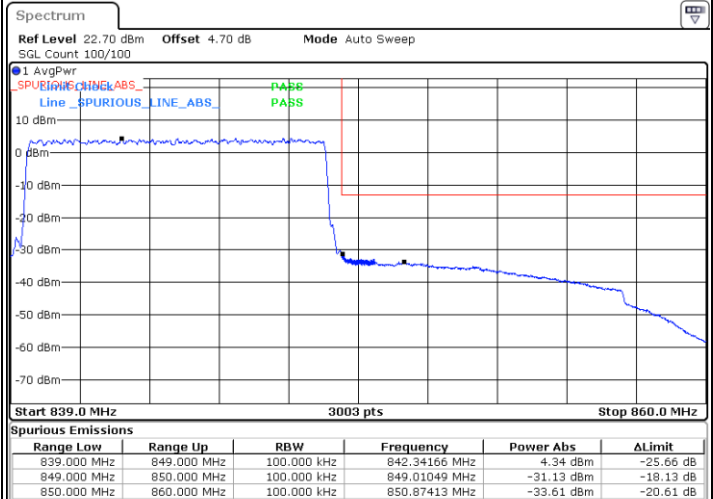
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



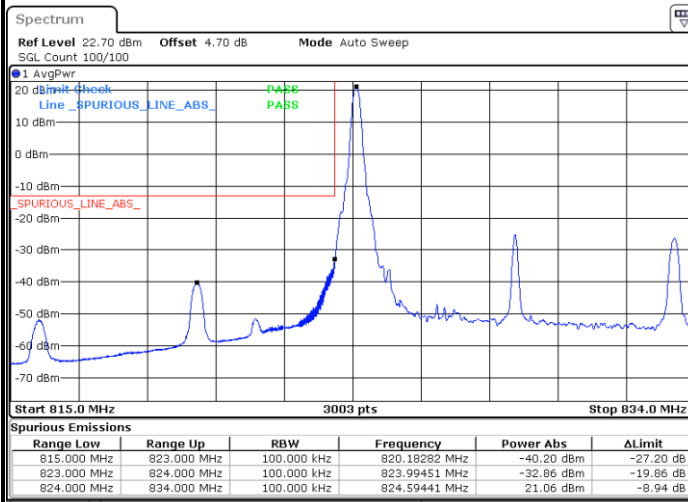
Highest Band Edge / Full RB



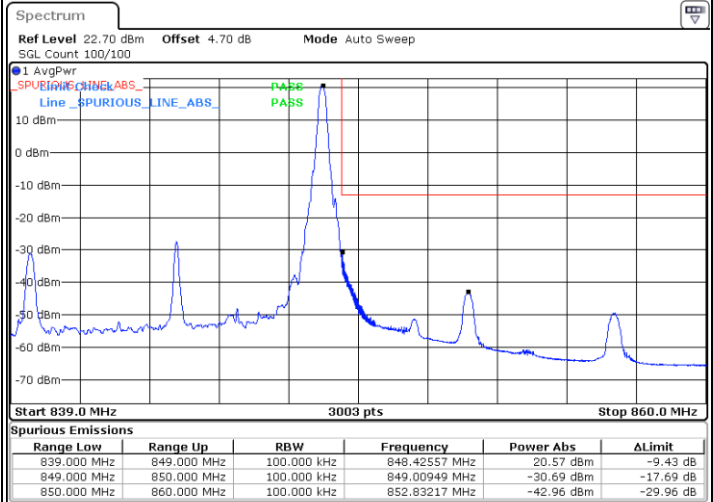


LTE Band 5 / 10MHz / 16QAM

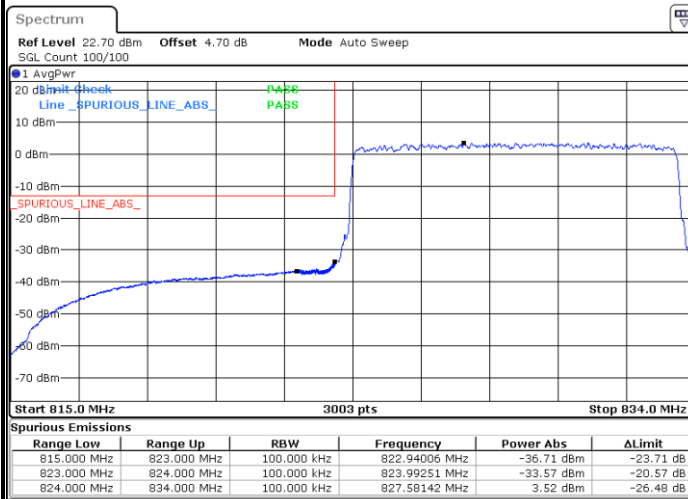
Lowest Band Edge / 1 RB



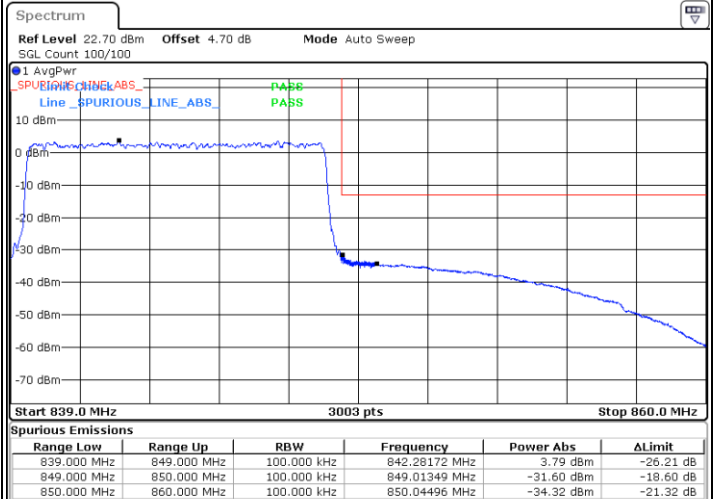
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



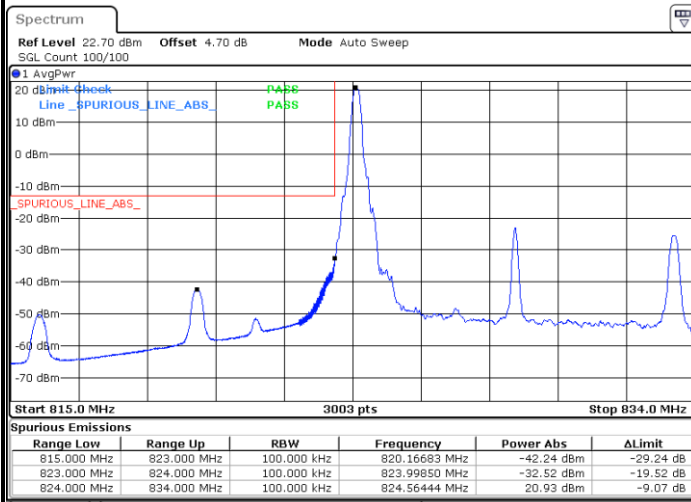
Highest Band Edge / Full RB



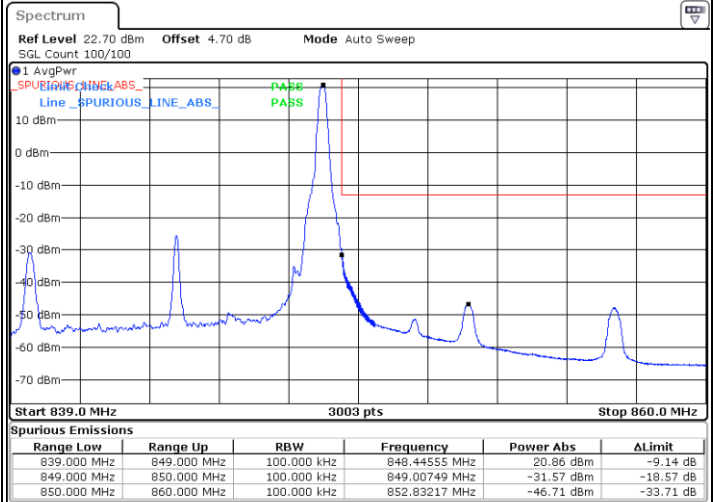


LTE Band 5 / 10MHz / 64QAM

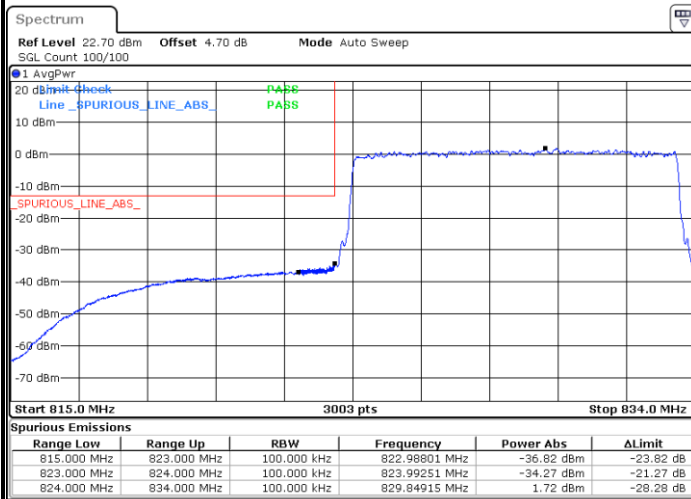
Lowest Band Edge / 1 RB



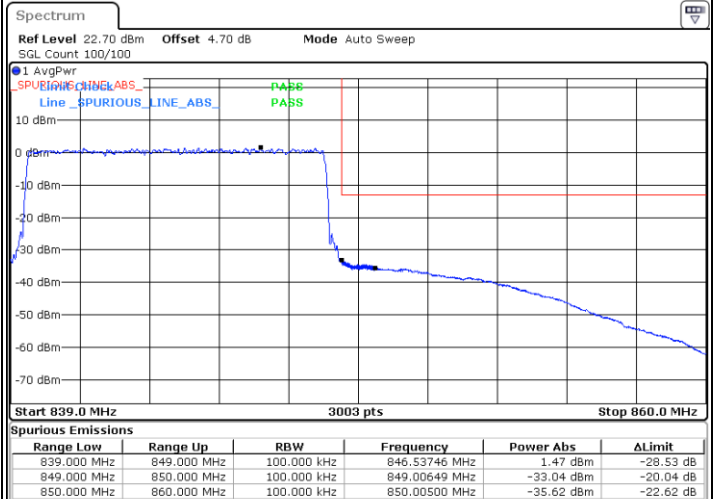
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

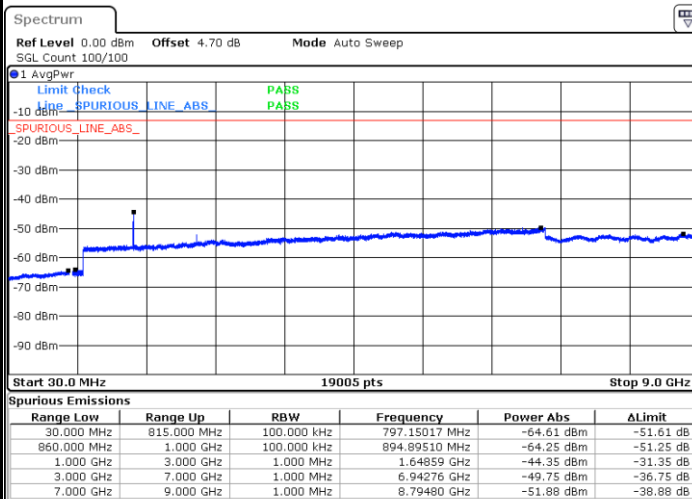




Conducted Spurious Emission

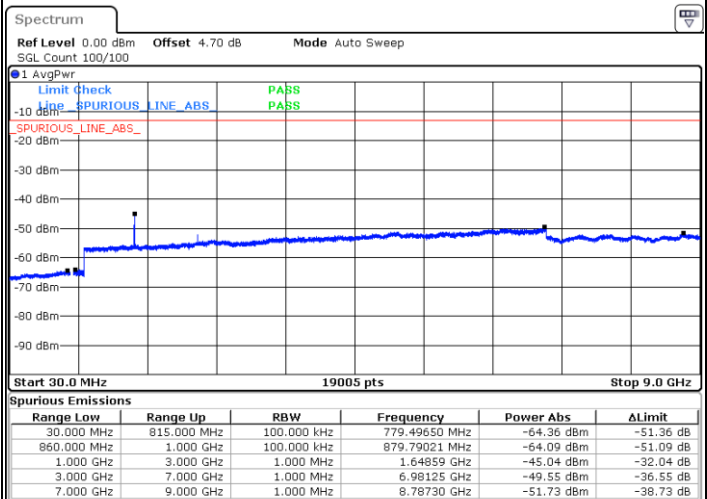
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



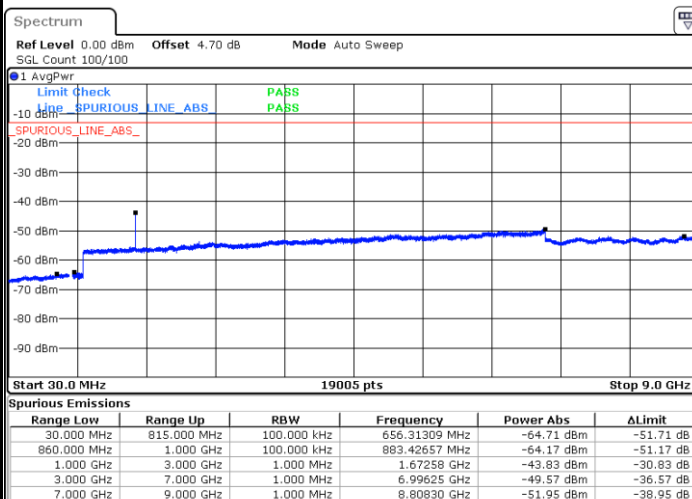
Date: 3 SEP. 2020 05:01:00

Lowest Channel / 16QAM



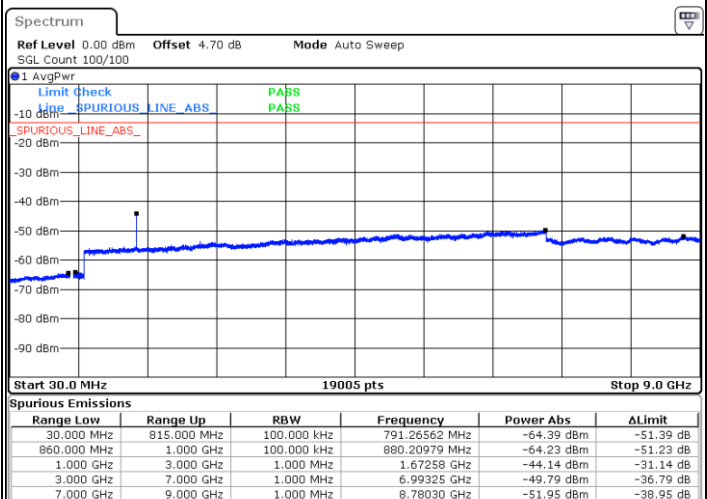
Date: 3 SEP. 2020 05:01:54

Middle Channel / QPSK



Date: 3 SEP. 2020 05:03:28

Middle Channel / 16QAM

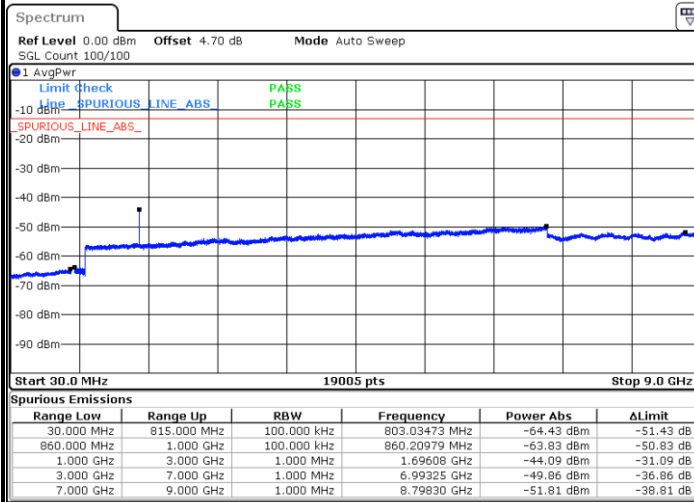


Date: 3 SEP. 2020 05:04:23



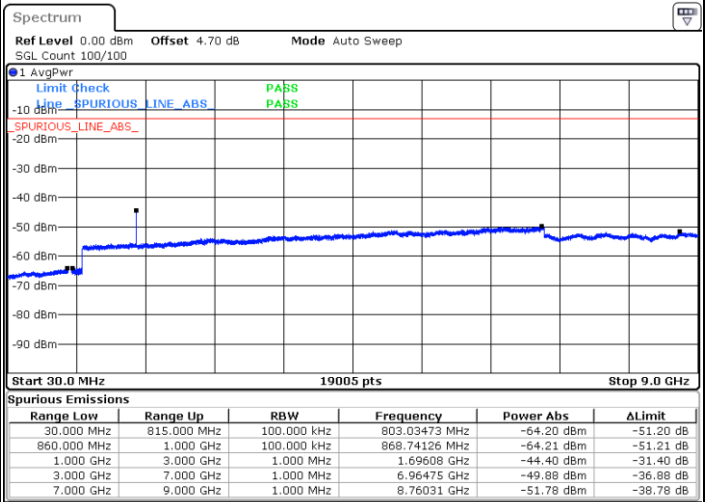
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 3 SEP 2020 05:12:26

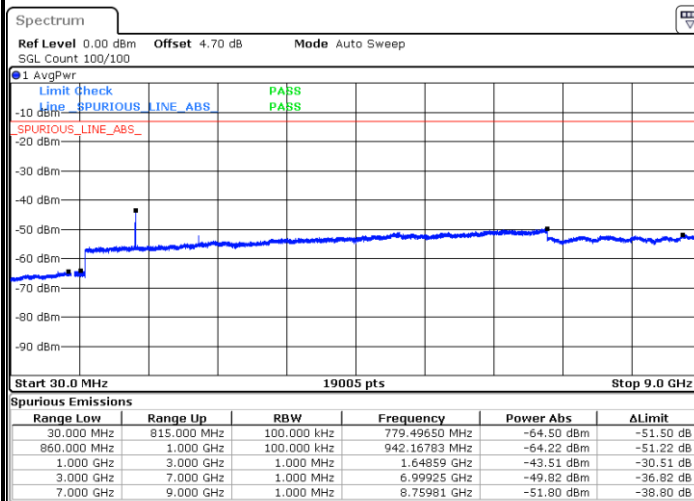
Highest Channel / 16QAM



Date: 3 SEP 2020 05:13:20

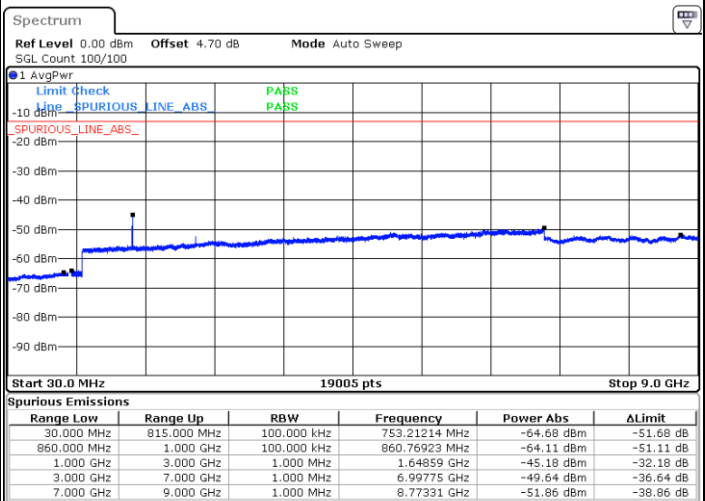
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 3 SEP 2020 05:23:19

Lowest Channel / 16QAM

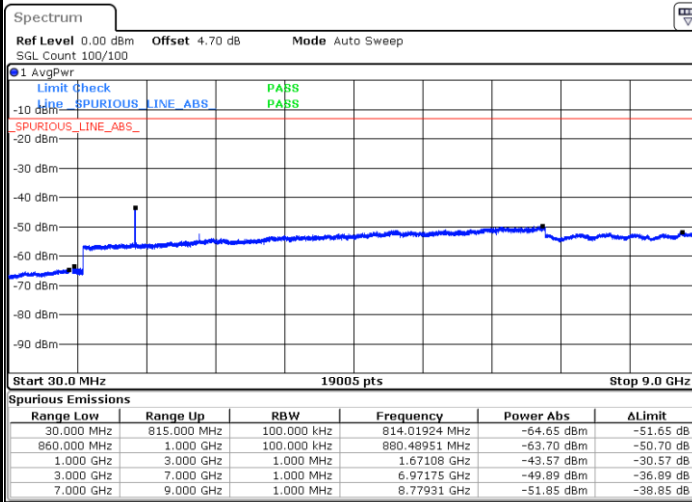


Date: 3 SEP 2020 05:24:14



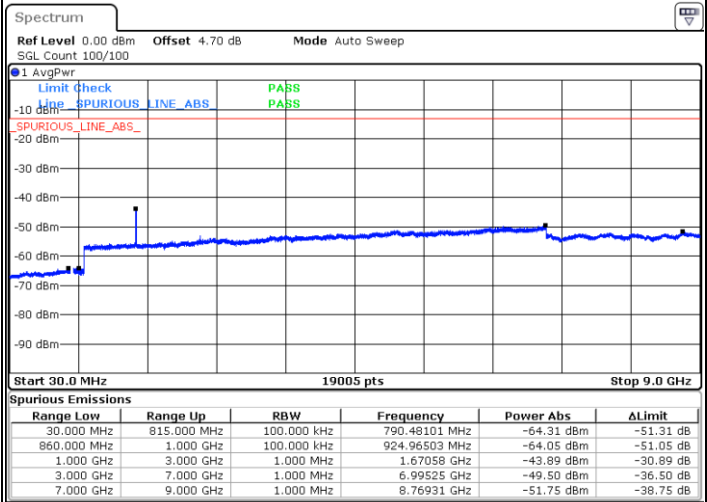
LTE Band 5 / 3MHz

Middle Channel / QPSK



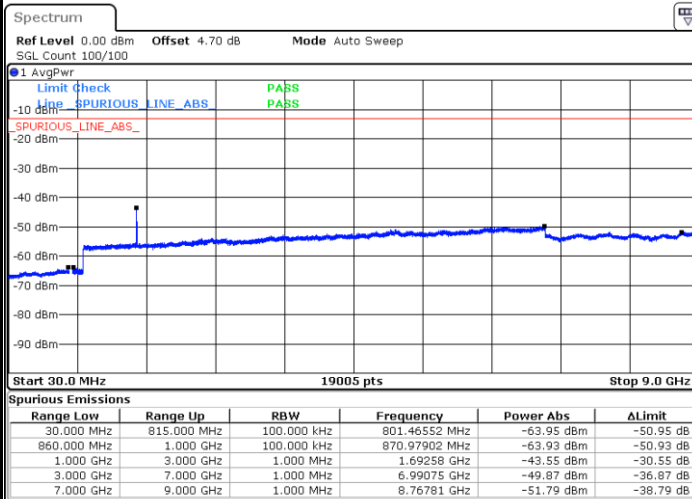
Date: 3 SEP. 2020 05:25:48

Middle Channel / 16QAM



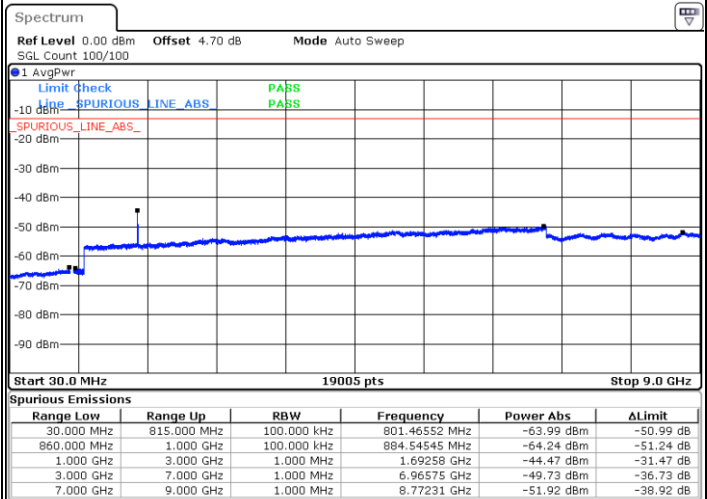
Date: 3 SEP. 2020 05:26:42

Highest Channel / QPSK



Date: 3 SEP. 2020 05:34:45

Highest Channel / 16QAM

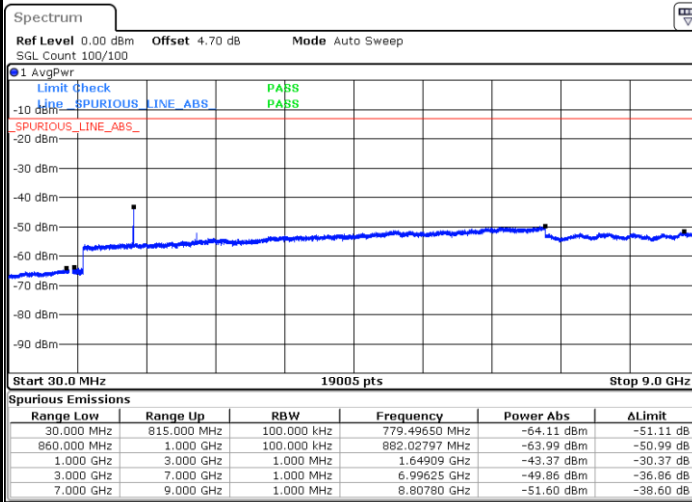


Date: 3 SEP. 2020 05:35:39



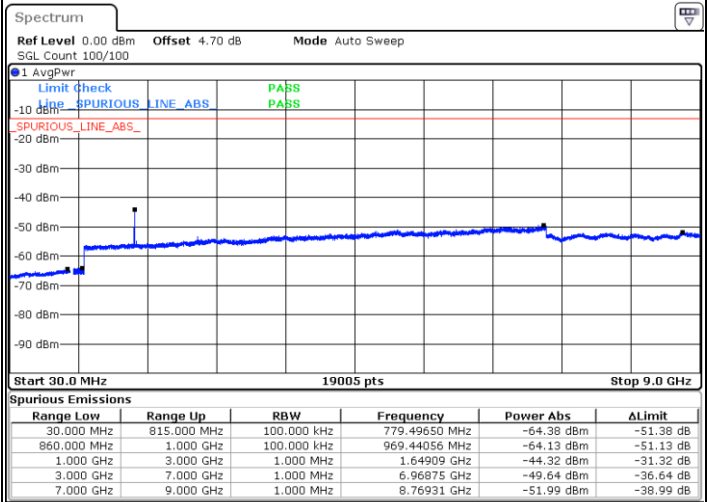
LTE Band 5 / 5MHz

Lowest Channel / QPSK



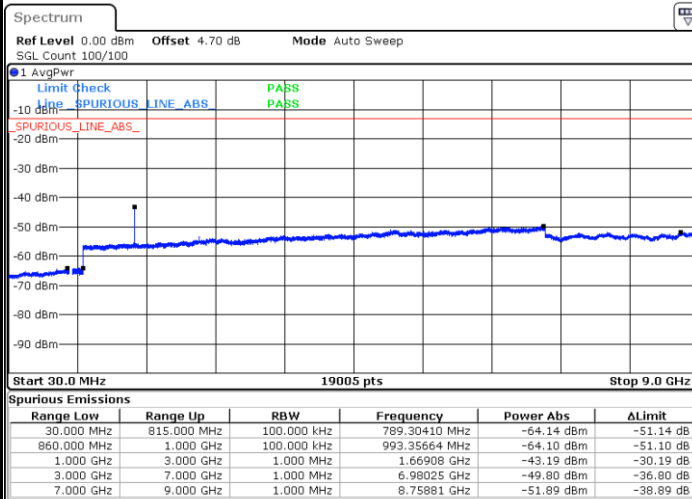
Date: 3 SEP. 2020 05:52:26

Lowest Channel / 16QAM



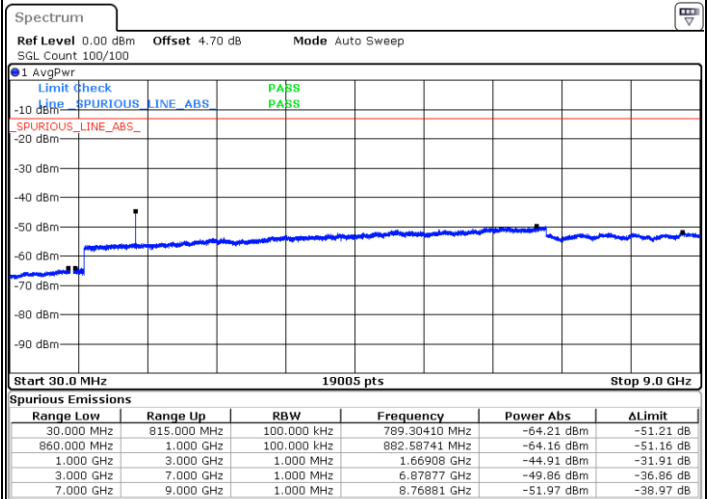
Date: 3 SEP. 2020 05:53:20

Middle Channel / QPSK



Date: 3 SEP. 2020 05:54:54

Middle Channel / 16QAM

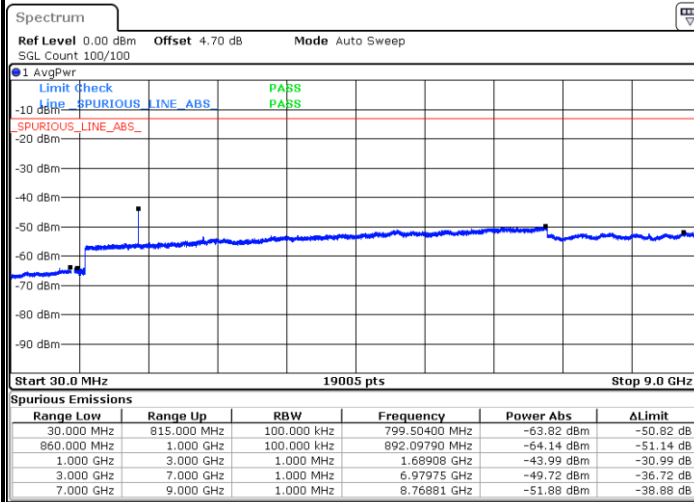


Date: 3 SEP. 2020 05:55:48



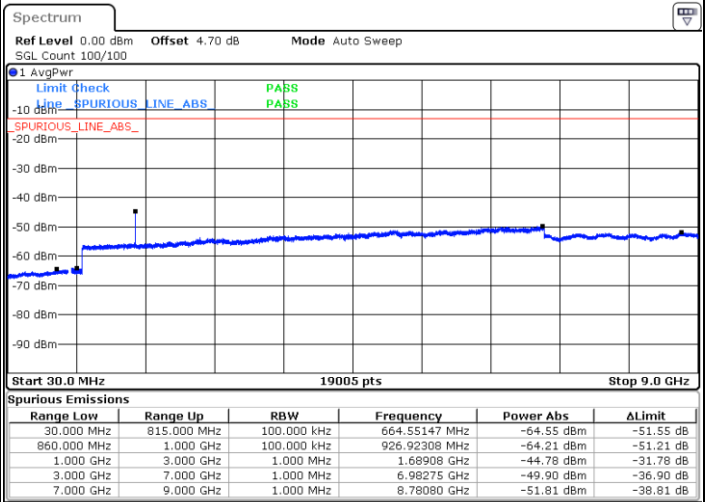
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 3 SEP 2020 06:03:52

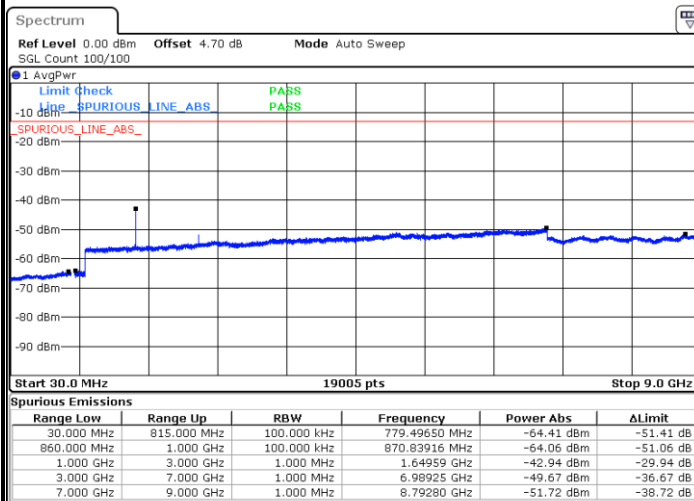
Highest Channel / 16QAM



Date: 3 SEP 2020 06:04:46

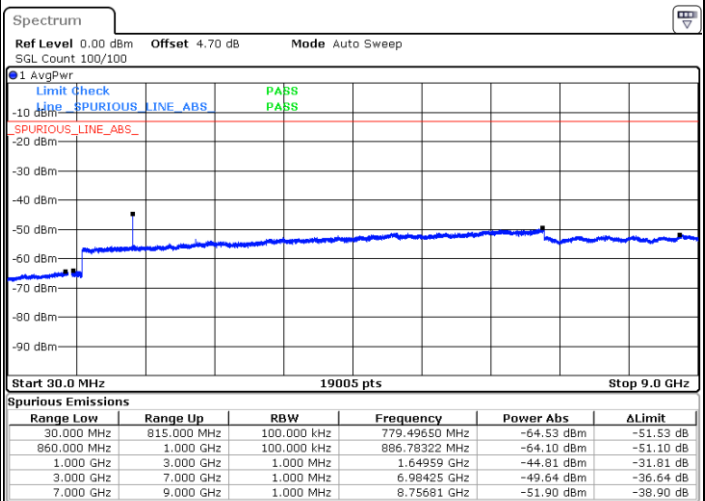
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 3 SEP 2020 06:16:03

Lowest Channel / 16QAM

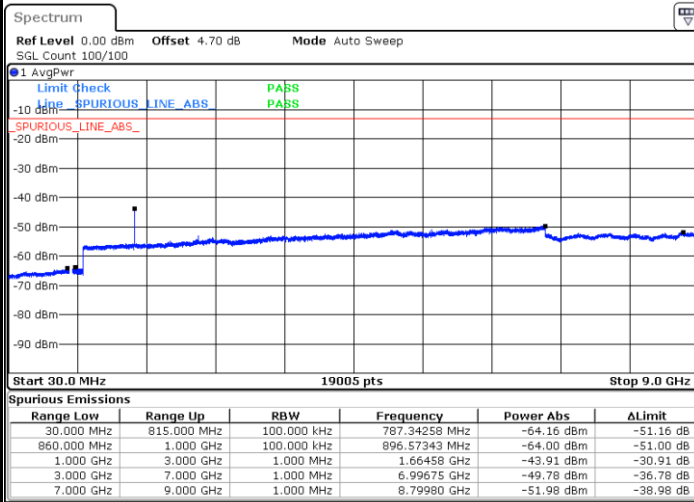


Date: 3 SEP 2020 06:16:58



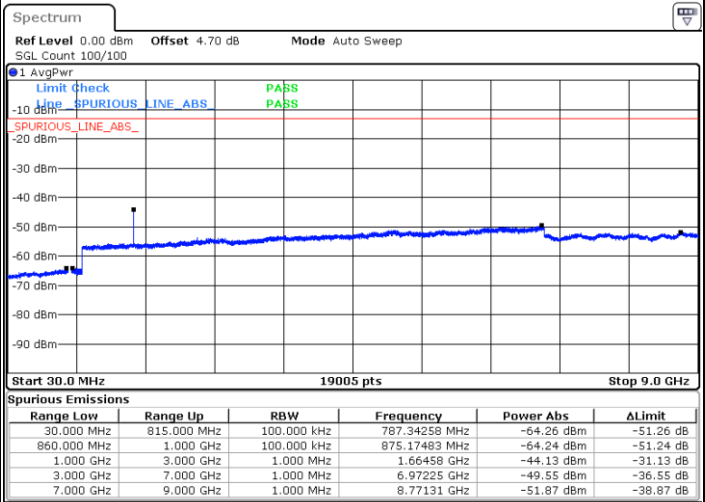
LTE Band 5 / 10MHz

Middle Channel / QPSK



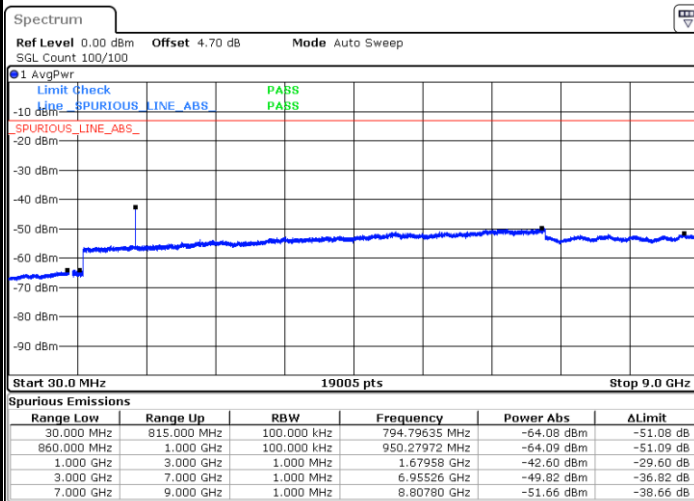
Date: 3 SEP. 2020 06:18:32

Middle Channel / 16QAM



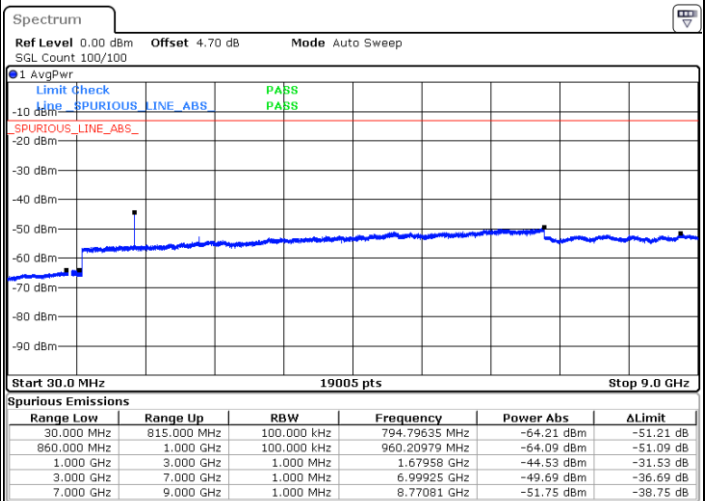
Date: 3 SEP. 2020 06:19:26

Highest Channel / QPSK



Date: 3 SEP. 2020 06:27:29

Highest Channel / 16QAM

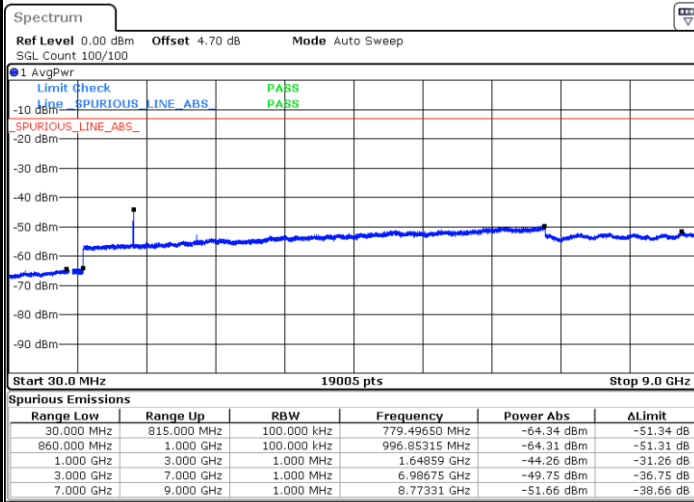


Date: 3 SEP. 2020 06:28:24



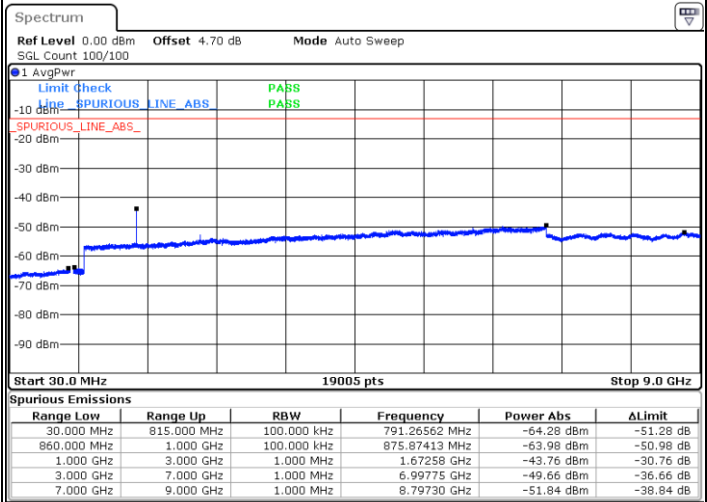
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



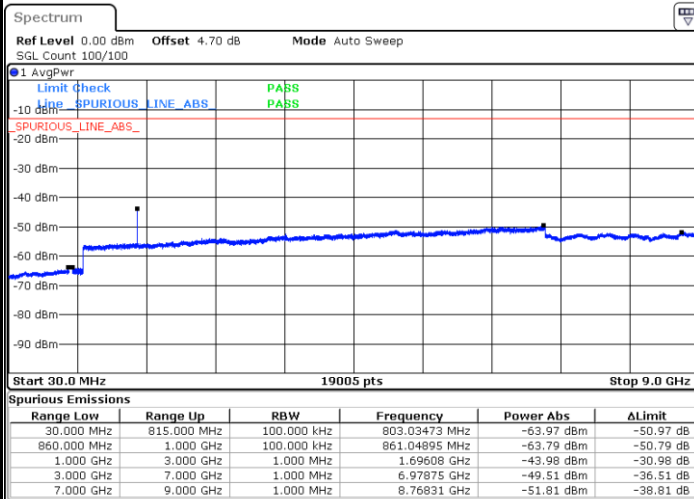
Date: 3 SEP. 2020 06:33:13

Middle Channel / 64QAM



Date: 3 SEP. 2020 06:34:07

Highest Channel / 64QAM

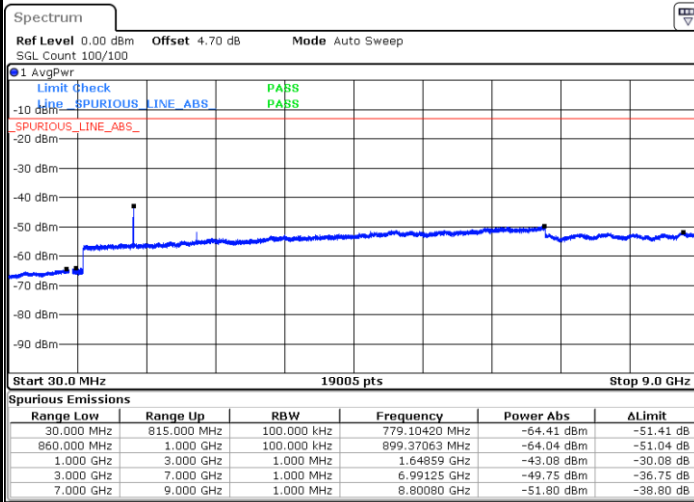


Date: 3 SEP. 2020 06:38:56



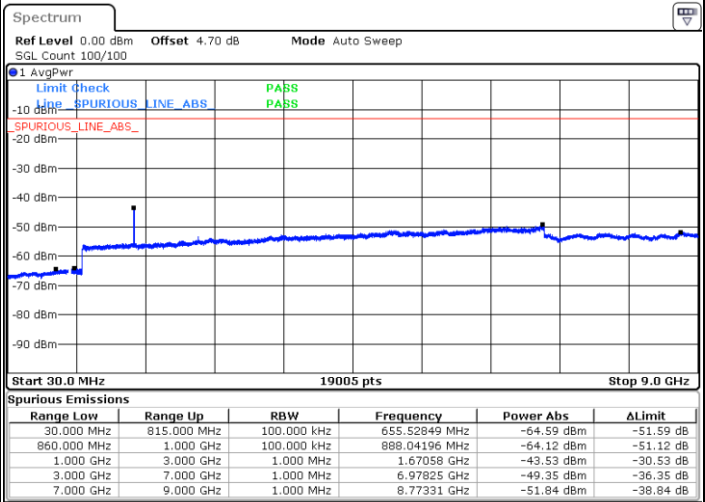
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



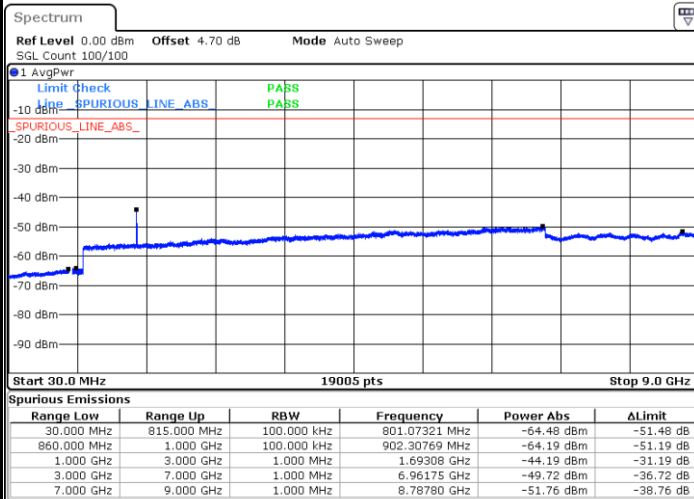
Date: 3 SEP. 2020 06:46:30

Middle Channel / 64QAM



Date: 3 SEP. 2020 06:47:24

Highest Channel / 64QAM

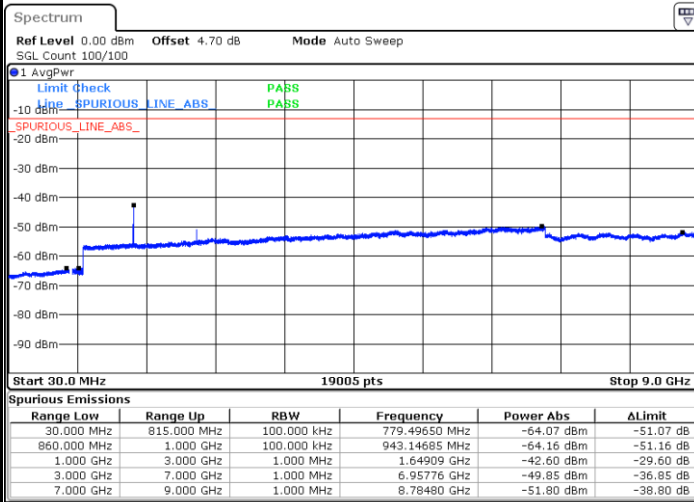


Date: 3 SEP. 2020 06:52:13



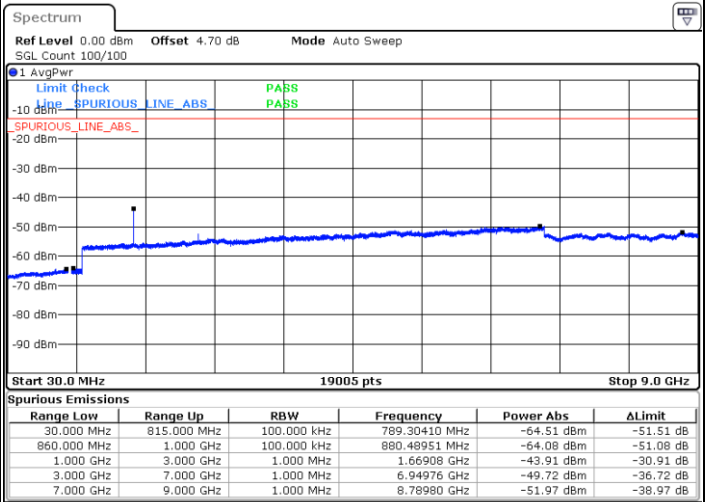
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



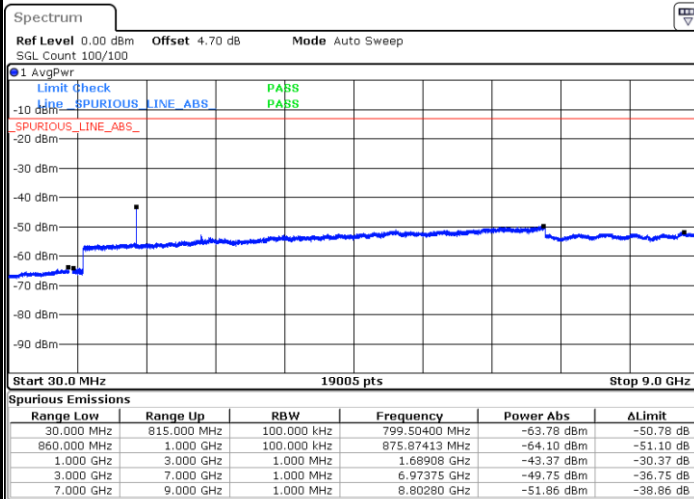
Date: 3 SEP. 2020 06:58:36

Middle Channel / 64QAM



Date: 3 SEP. 2020 06:59:30

Highest Channel / 64QAM

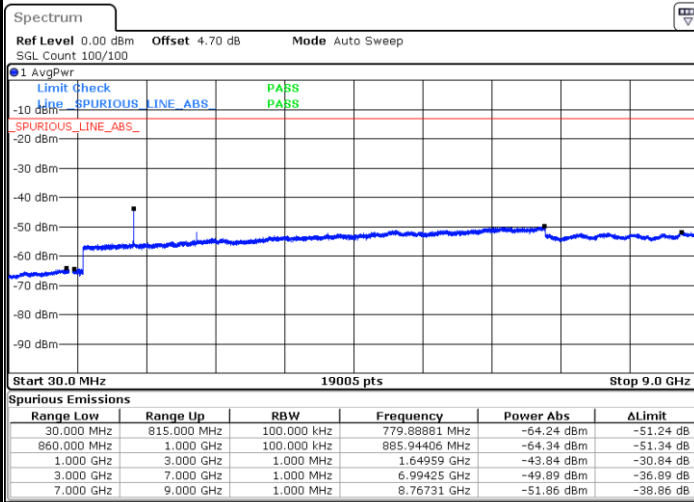


Date: 3 SEP. 2020 07:04:19



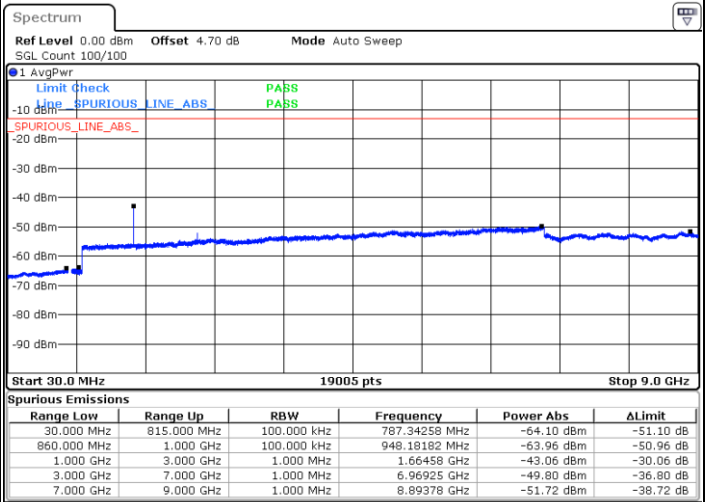
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



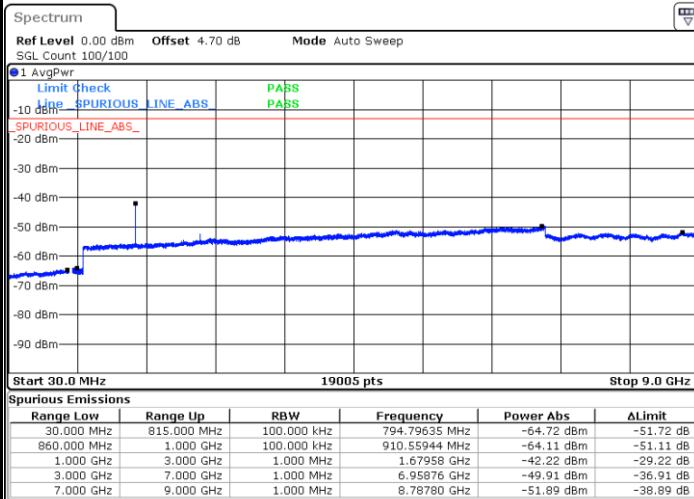
Date: 3 SEP. 2020 07:13:06

Middle Channel / 64QAM



Date: 3 SEP. 2020 07:14:00

Highest Channel / 64QAM



Date: 3 SEP. 2020 07:18:49

**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0067	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.8V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



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	-60.30	-13	-47.30	-72.56	2.64	14.90	H
	5613	-56.38	-13	-43.38	-68.24	2.94	14.80	H
	7488	-51.51	-13	-38.51	-61.28	3.39	13.16	H
	3741	-60.39	-13	-47.39	-72.65	2.64	14.90	V
	5613	-56.26	-13	-43.26	-68.12	2.94	14.80	V
	7488	-51.01	-13	-38.01	-60.78	3.39	13.16	V

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

LTE Band 5 / 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	1664	-68.47	-13	-55.47	-75.44	1.58	10.70	H
	2496	-65.50	-13	-52.50	-73.75	2.102	12.50	H
	3330	-63.99	-13	-50.99	-72.88	2.856	13.90	H
	1664	-68.24	-13	-55.24	-75.21	1.58	10.70	V
	2496	-65.73	-13	-52.73	-73.98	2.10	12.50	V
	3330	-64.35	-13	-51.35	-73.24	2.86	13.90	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG080709-01B and FG080709-01C which is issued separately.