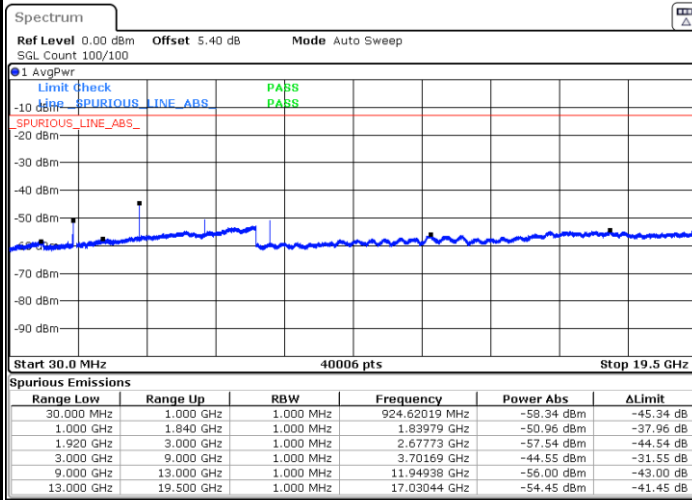




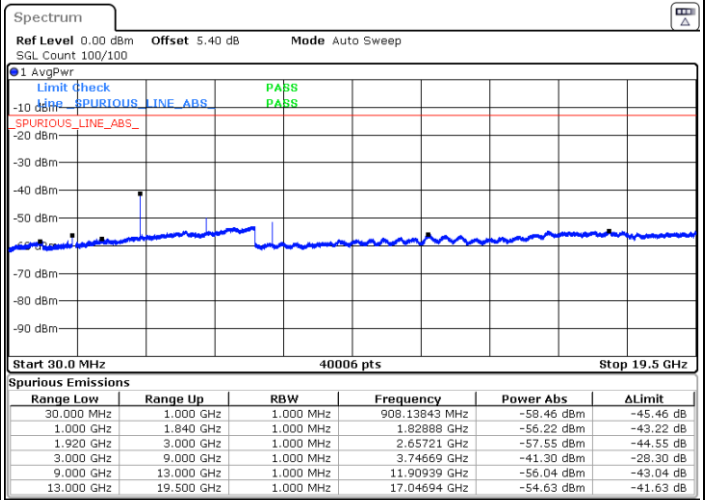
LTE Band 2 / 15MHz

Lowest Channel / QPSK



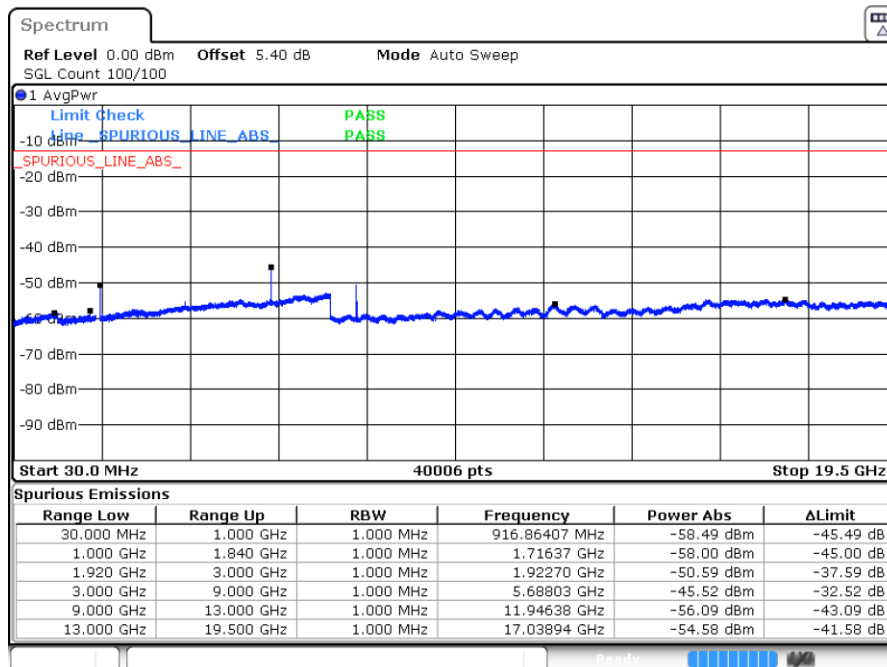
Date: 31 DEC 2021 05:52:52

Middle Channel / QPSK



Date: 31 DEC 2021 05:54:20

Highest Channel / QPSK

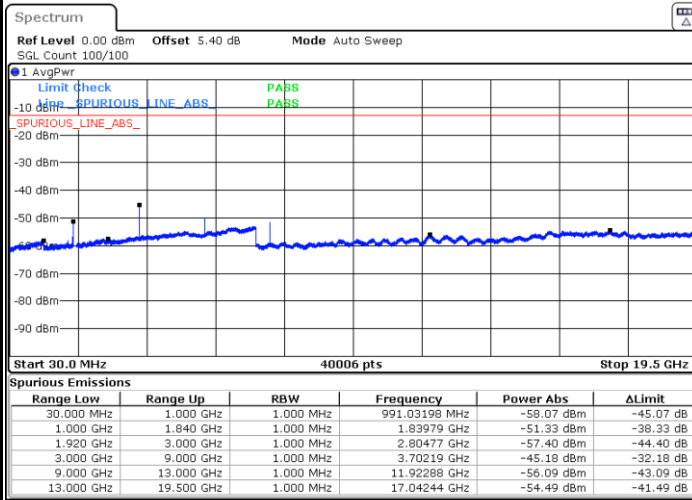


Date: 31 DEC 2021 05:55:48



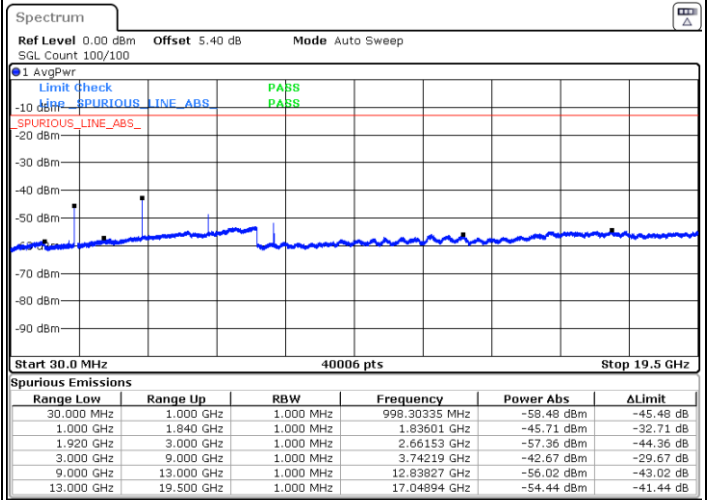
LTE Band 2 / 20MHz

Lowest Channel / QPSK



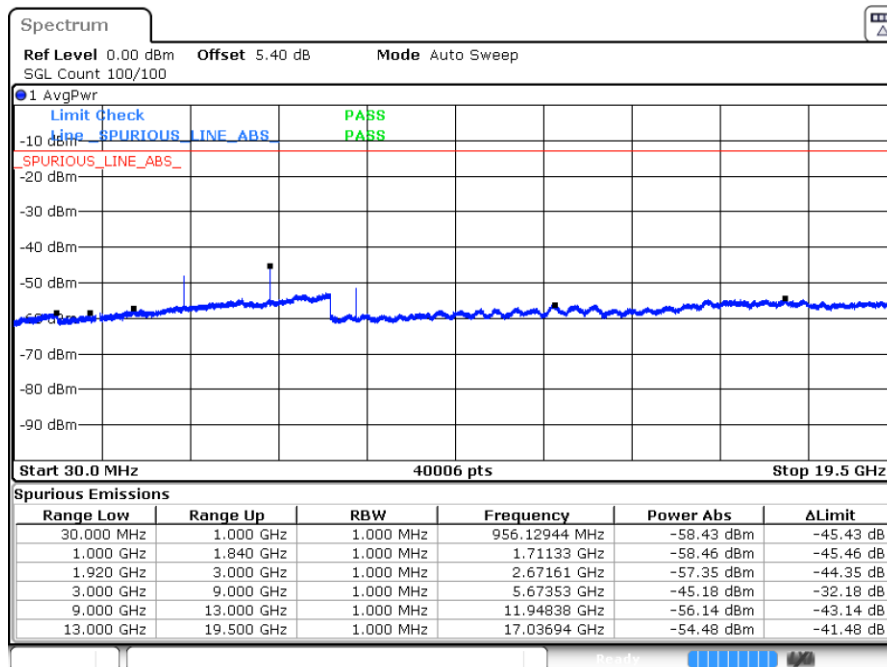
Date: 31 DEC 2021 05:57:17

Middle Channel / QPSK



Date: 31 DEC 2021 05:58:45

Highest Channel / QPSK



Date: 31 DEC 2021 06:00:14

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0064	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

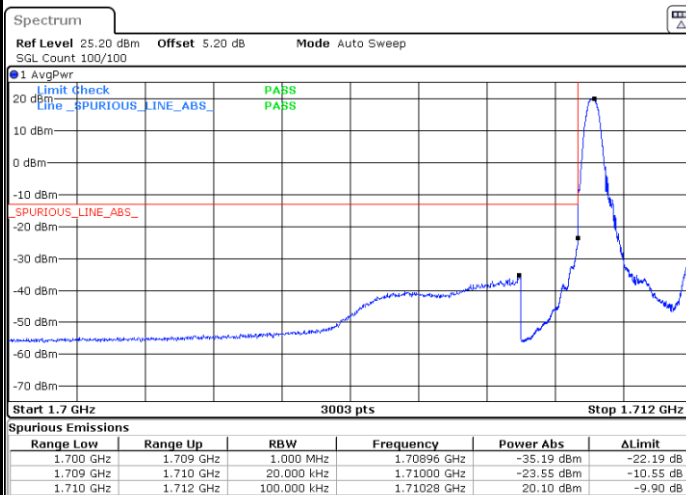


LTE Band 4

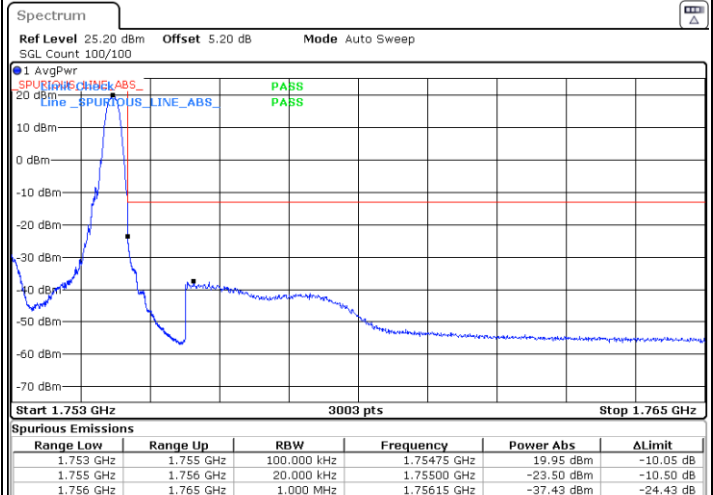
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

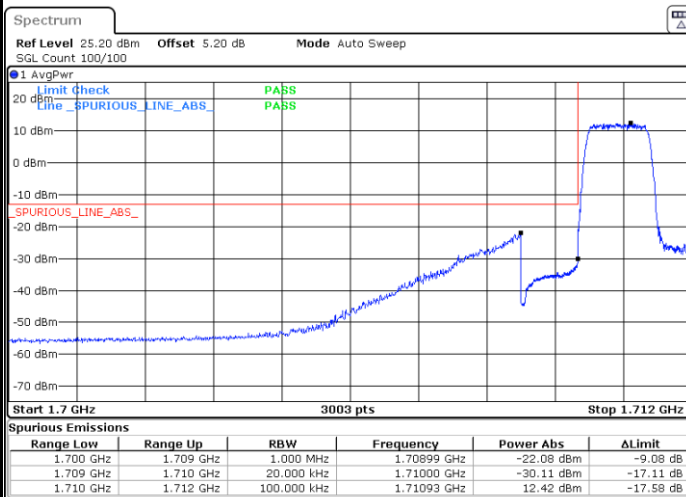
Lowest Band Edge / 1RB



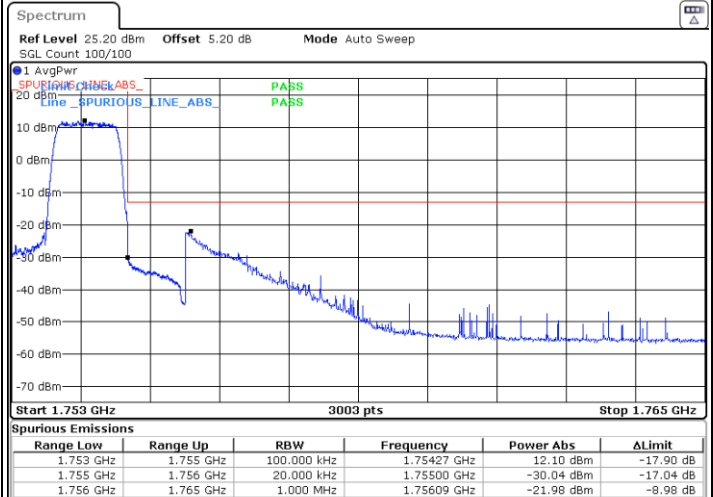
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



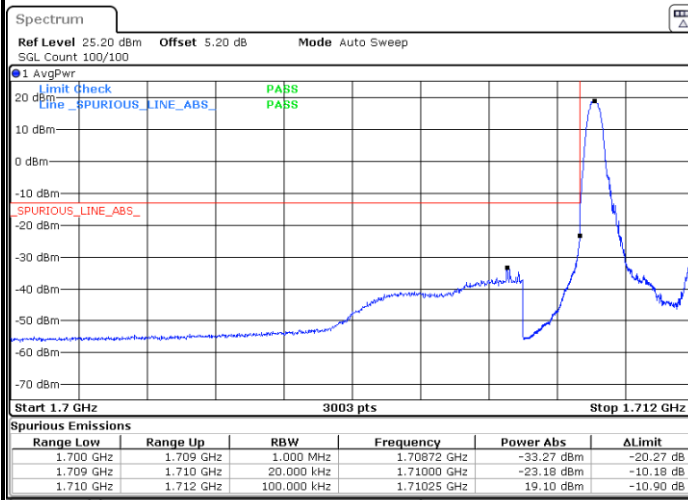
Highest Band Edge / Full RB



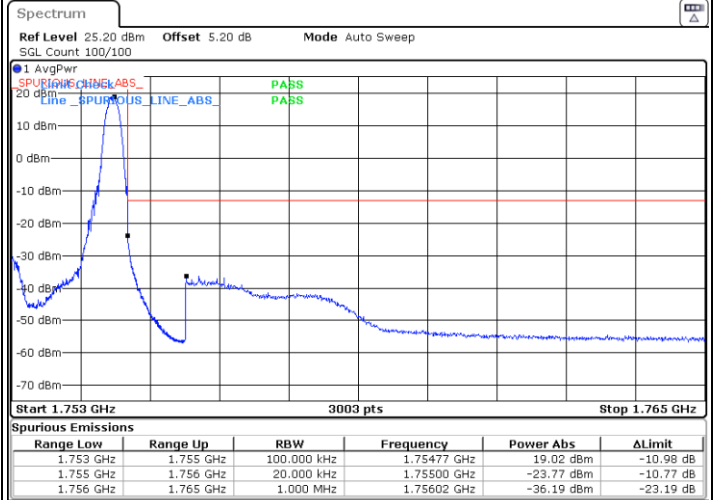


LTE Band 4 / 1.4MHz / 16QAM

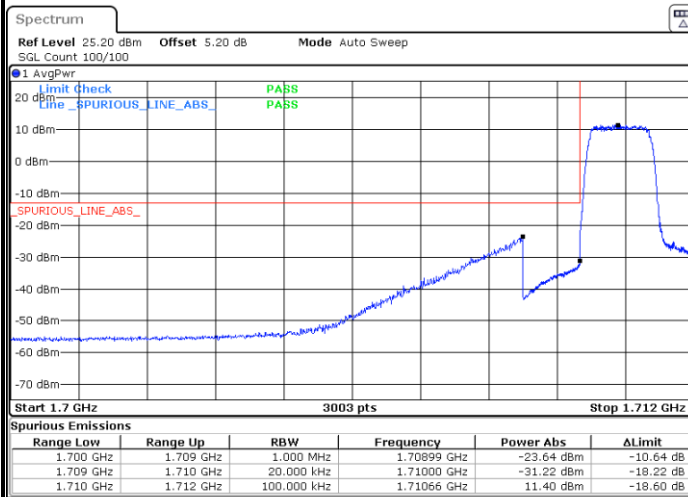
Lowest Band Edge / 1 RB



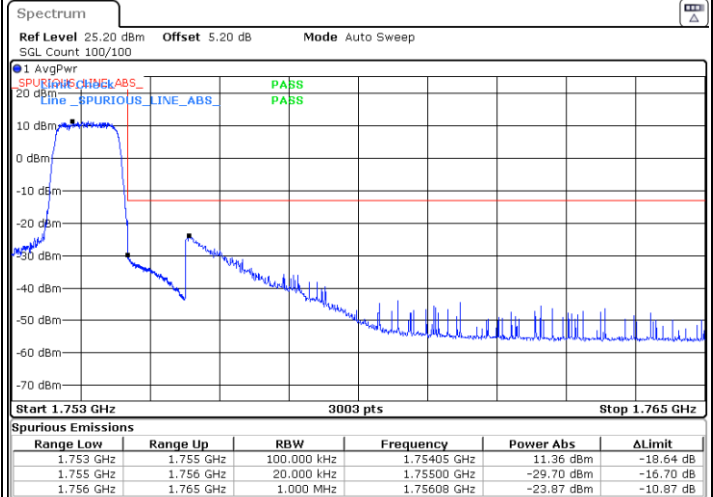
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



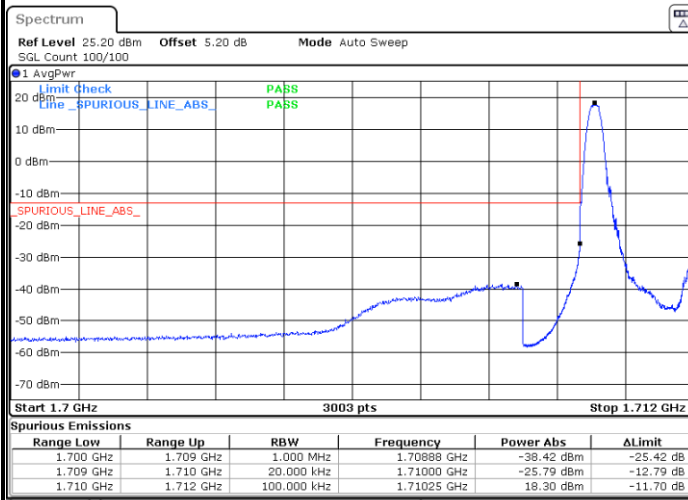
Highest Band Edge / Full RB



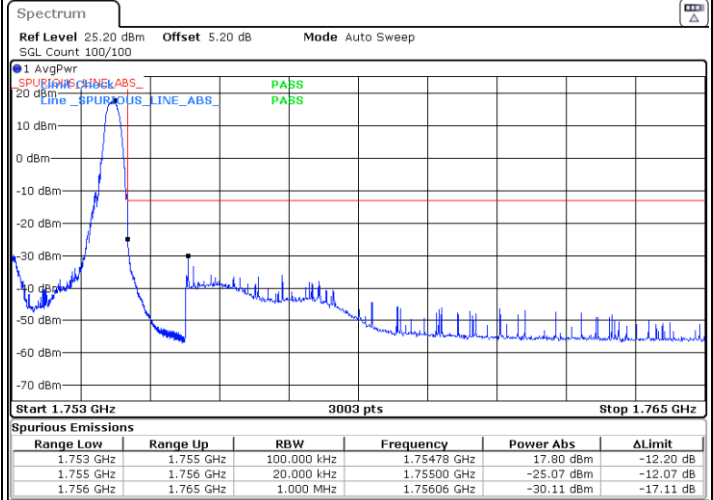


LTE Band 4 / 1.4MHz / 64QAM

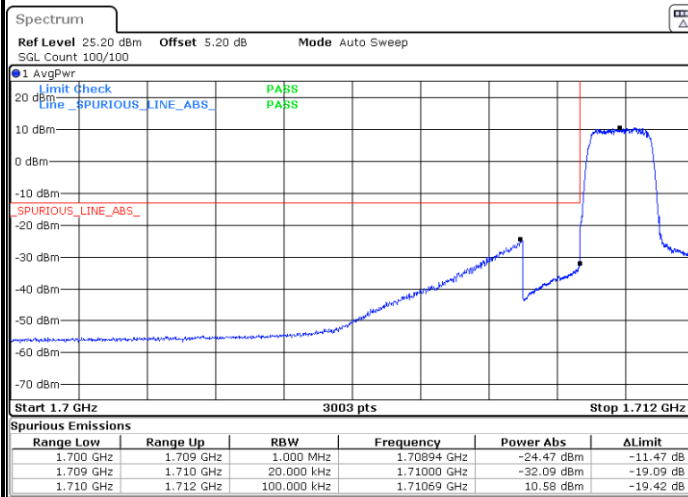
Lowest Band Edge / 1 RB



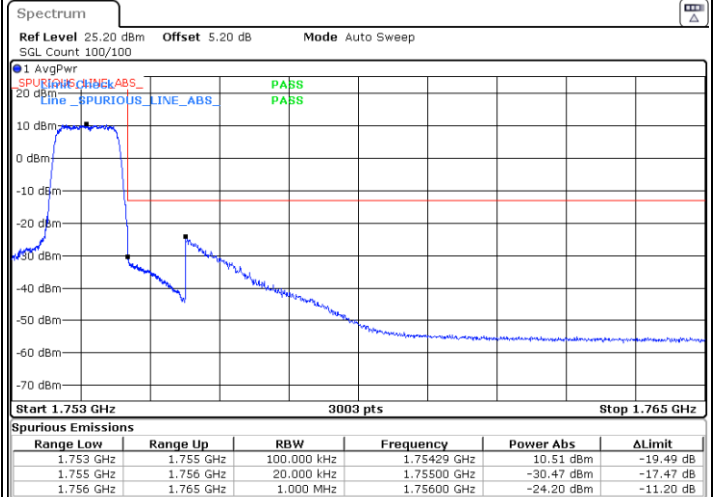
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



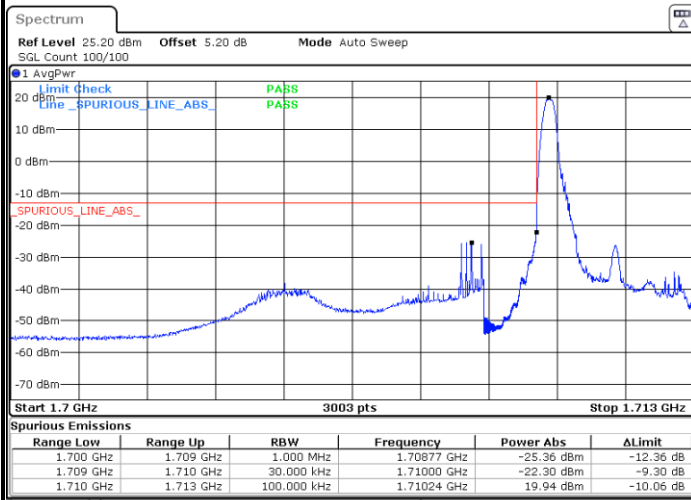
Highest Band Edge / Full RB



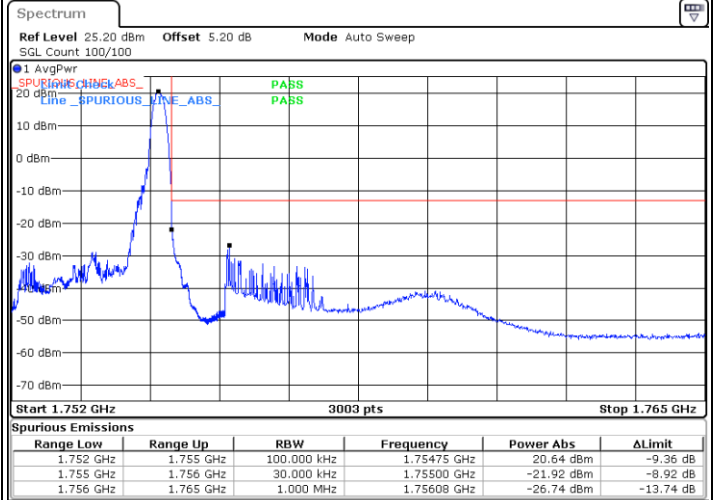


LTE Band 4 / 3MHz / QPSK

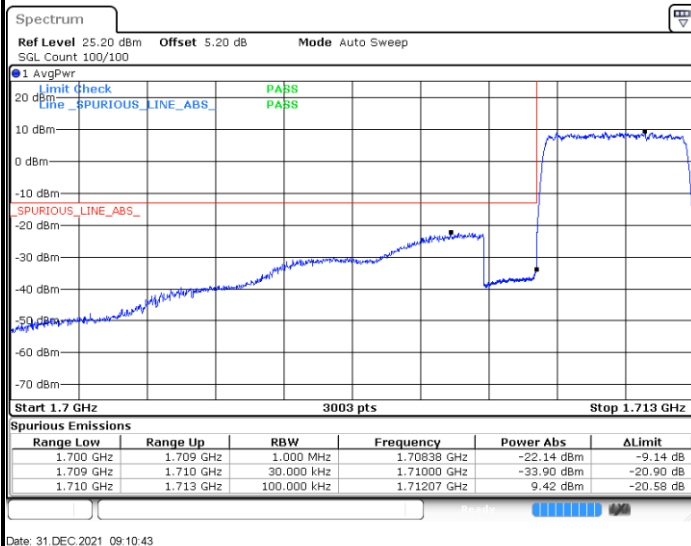
Lowest Band Edge / 1RB



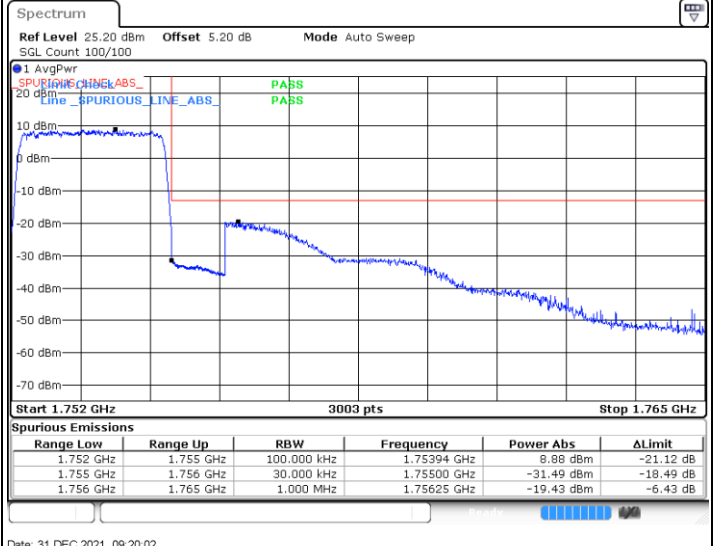
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



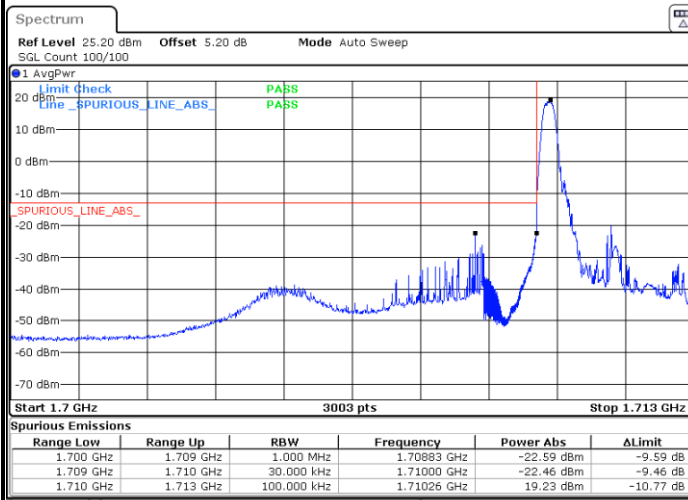
Highest Band Edge / Full RB



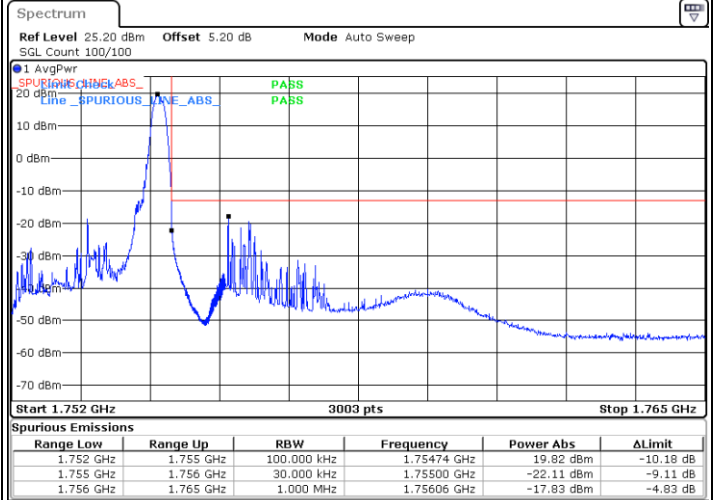


LTE Band 4 / 3MHz / 16QAM

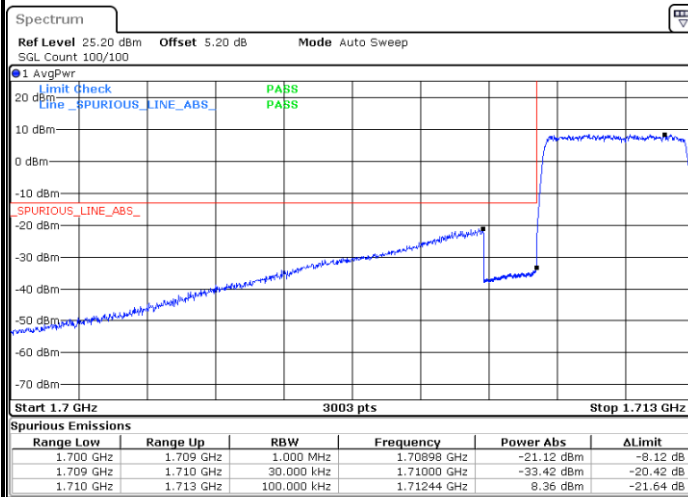
Lowest Band Edge / 1 RB



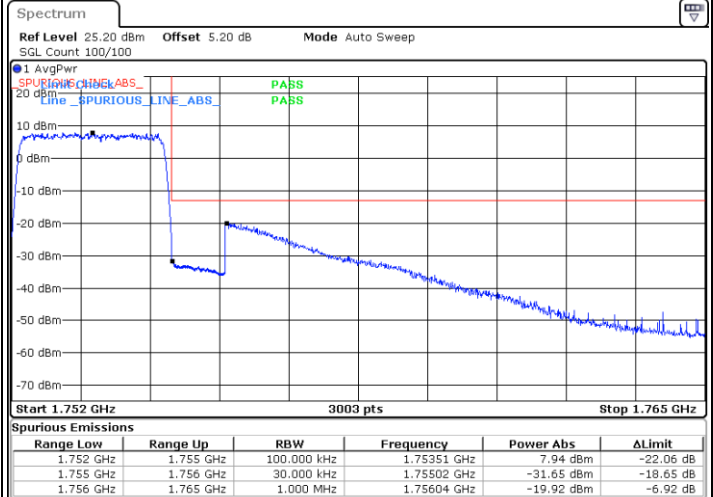
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



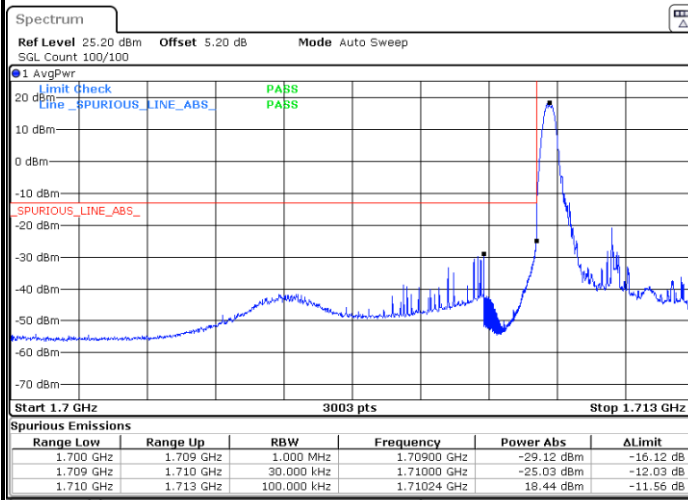
Highest Band Edge / Full RB



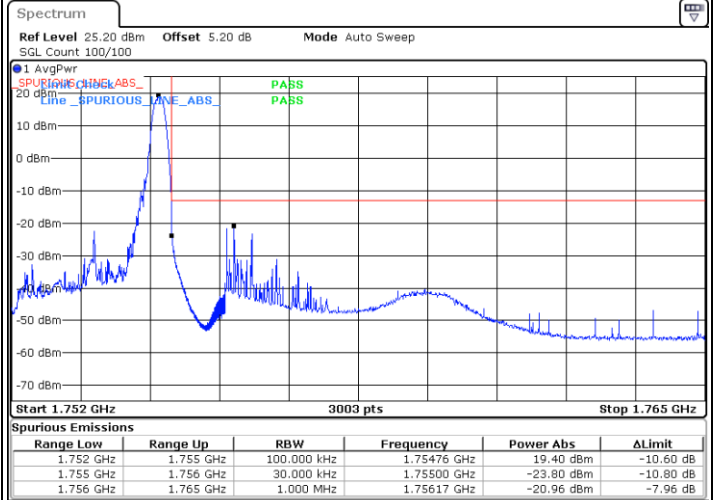


LTE Band 4 / 3MHz / 64QAM

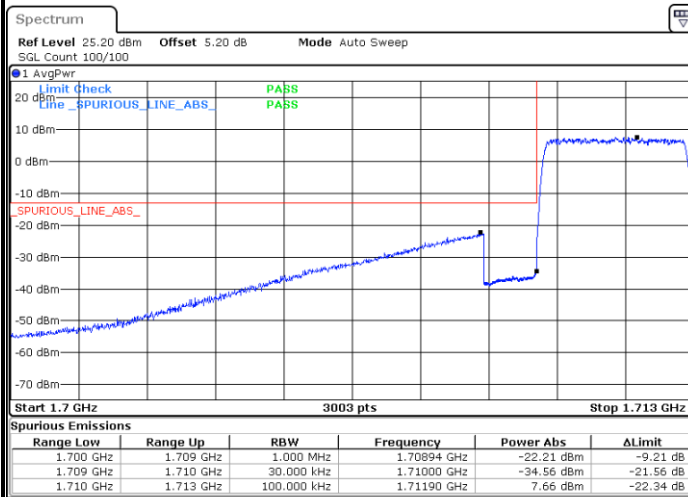
Lowest Band Edge / 1 RB



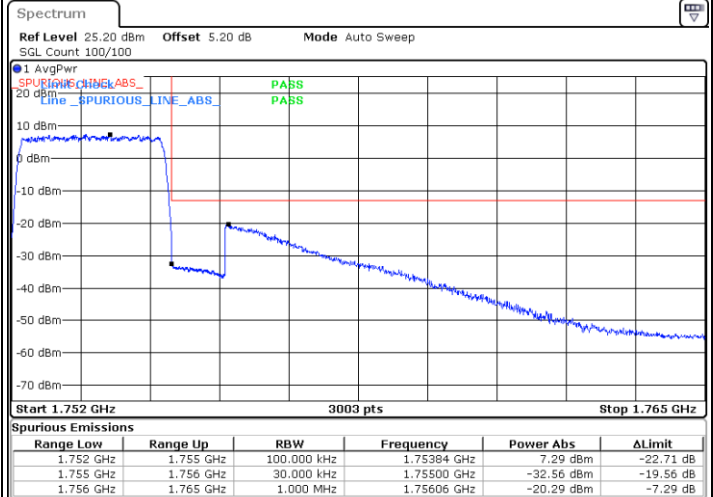
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



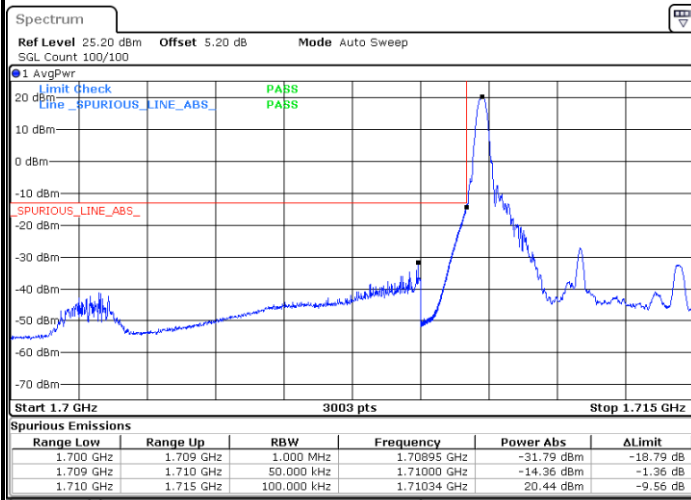
Highest Band Edge / Full RB



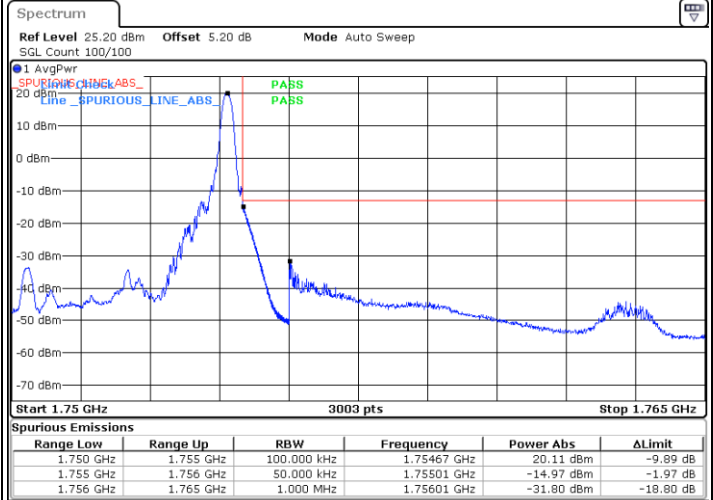


LTE Band 4 / 5MHz / QPSK

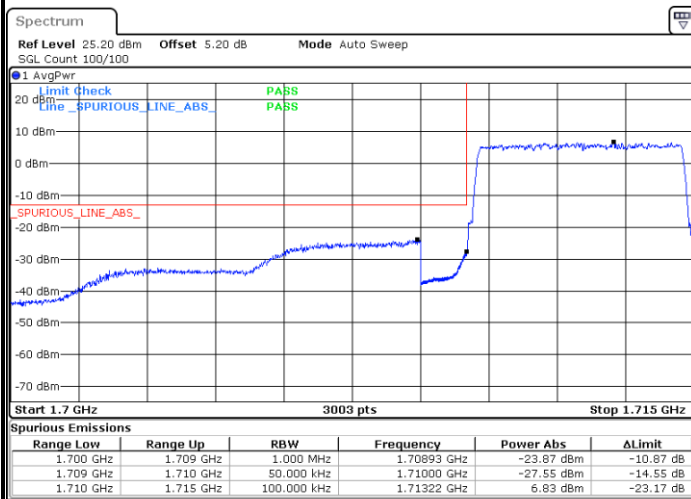
Lowest Band Edge / 1 RB



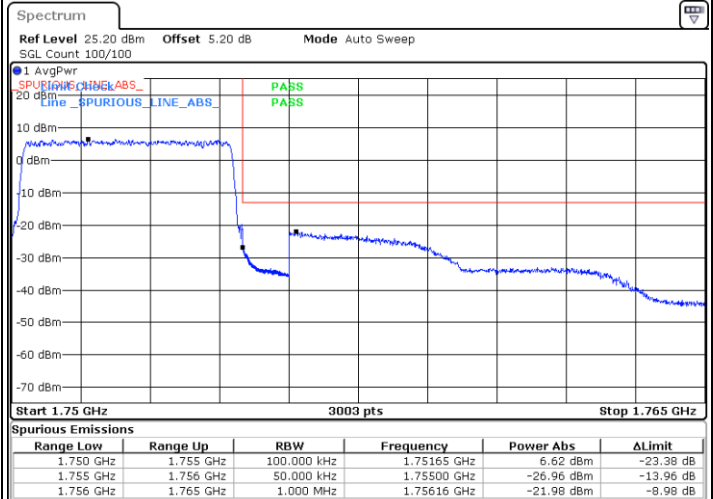
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



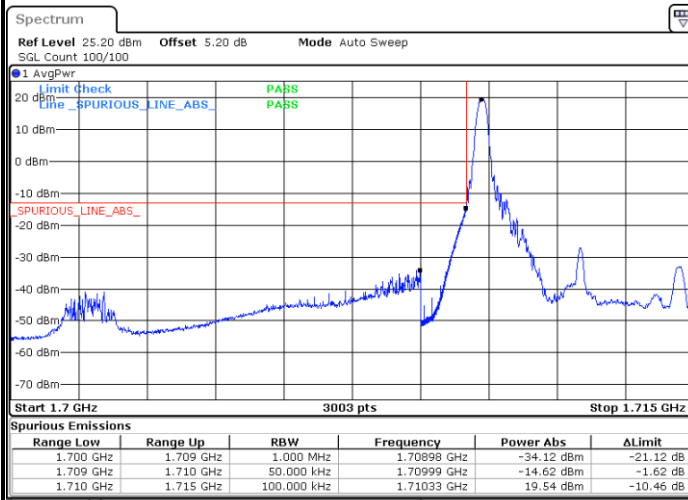
Highest Band Edge / Full RB



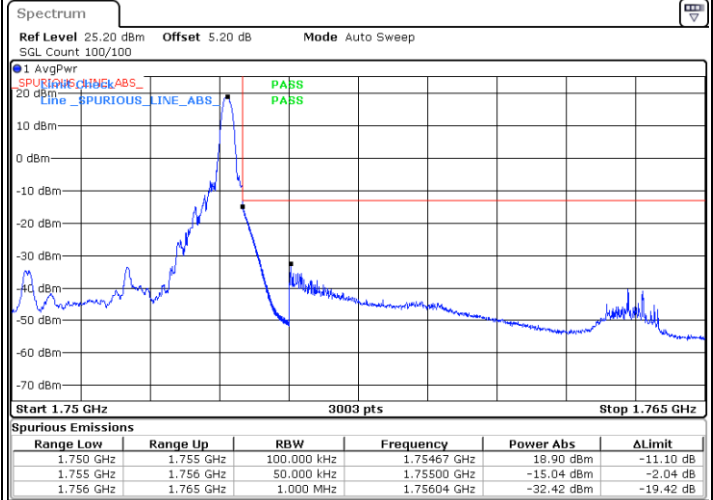


LTE Band 4 / 5MHz / 16QAM

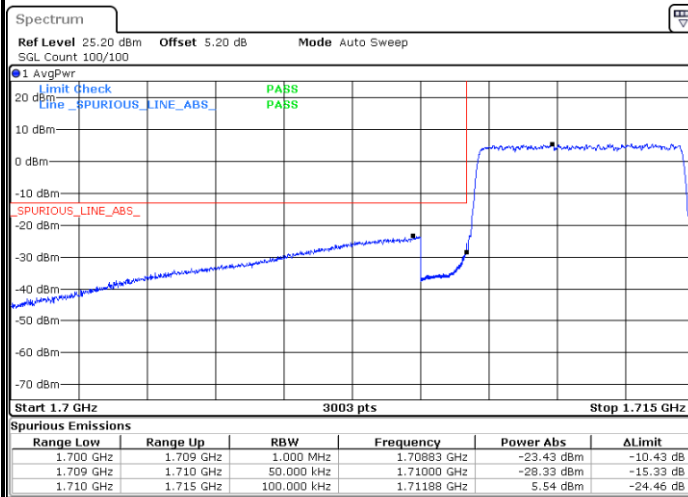
Lowest Band Edge / 1RB



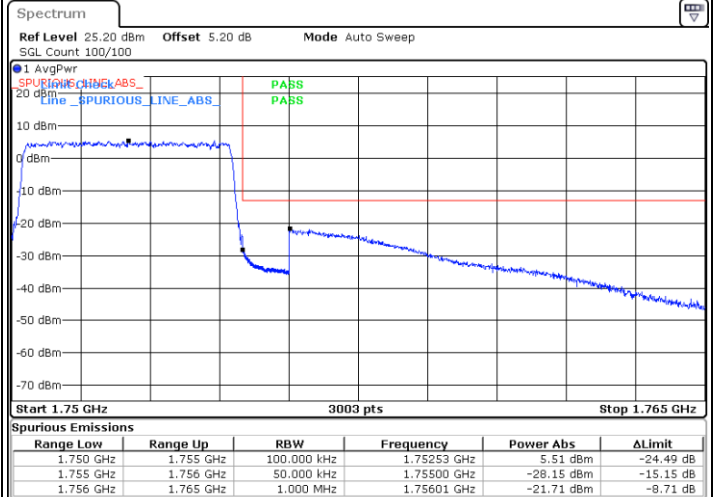
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



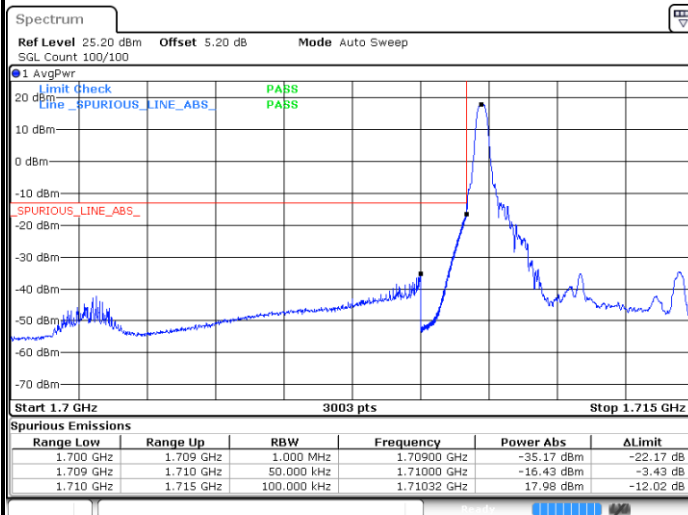
Highest Band Edge / Full RB





LTE Band 4 / 5MHz / 64QAM

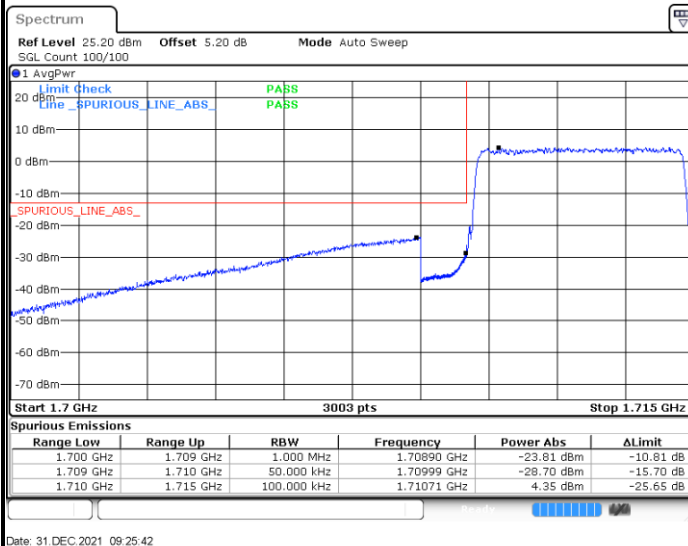
Lowest Band Edge / 1RB



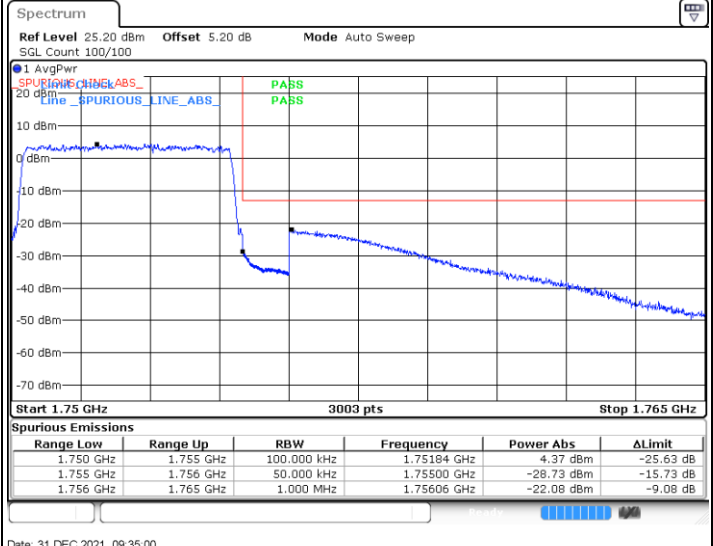
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



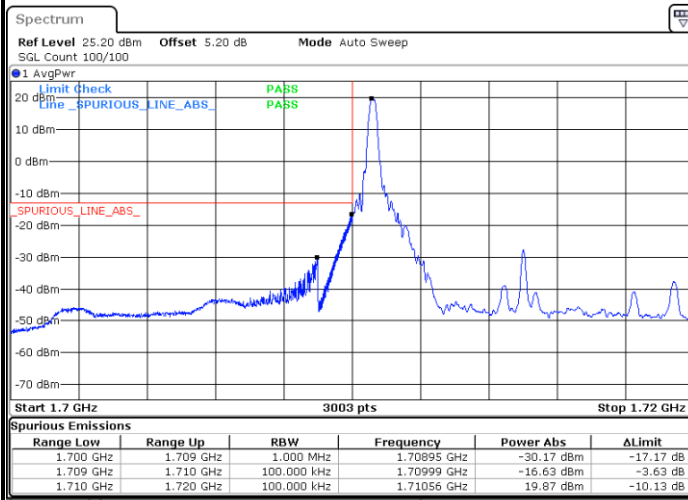
Highest Band Edge / Full RB



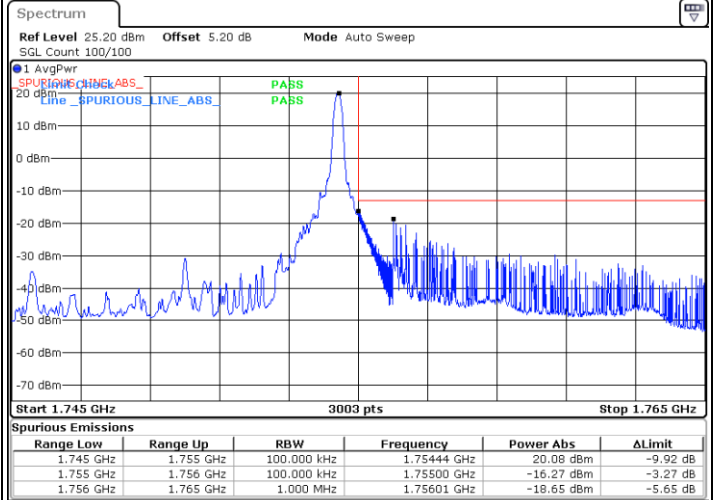


LTE Band 4 / 10MHz / QPSK

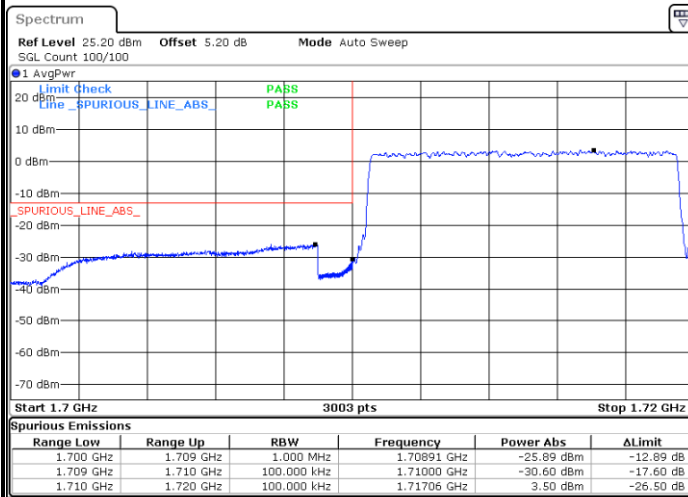
Lowest Band Edge / 1 RB



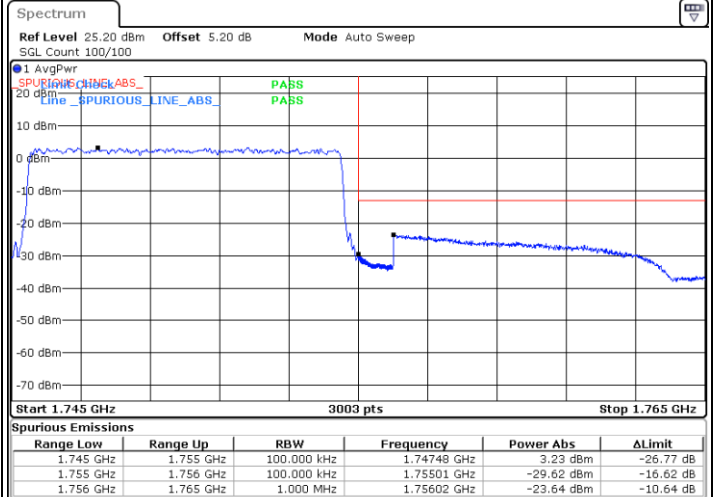
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



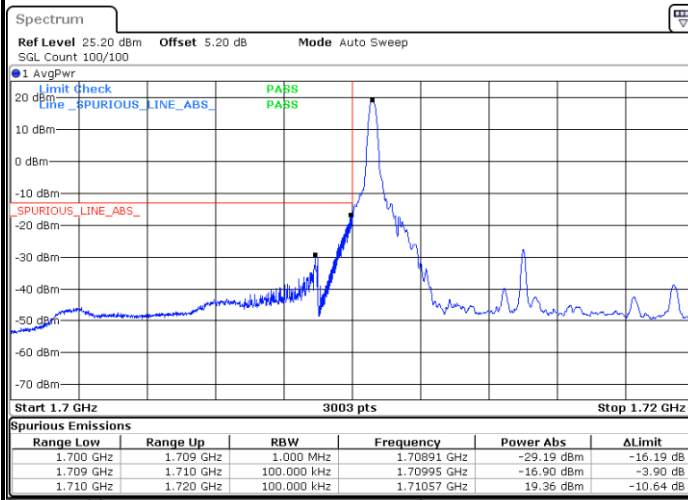
Highest Band Edge / Full RB



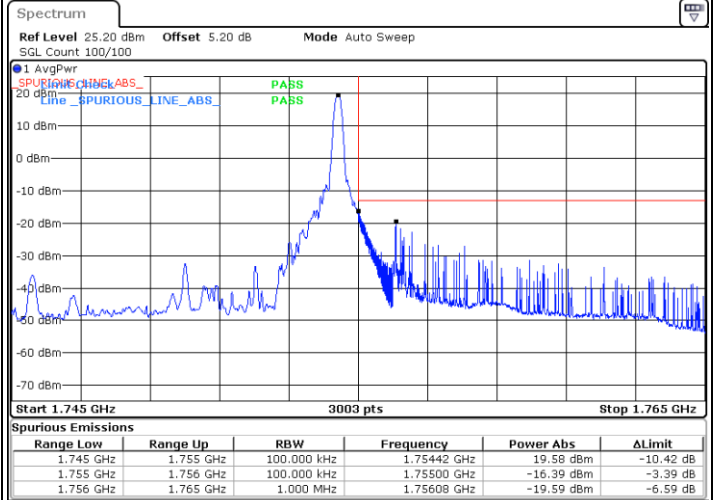


LTE Band 4 / 10MHz / 16QAM

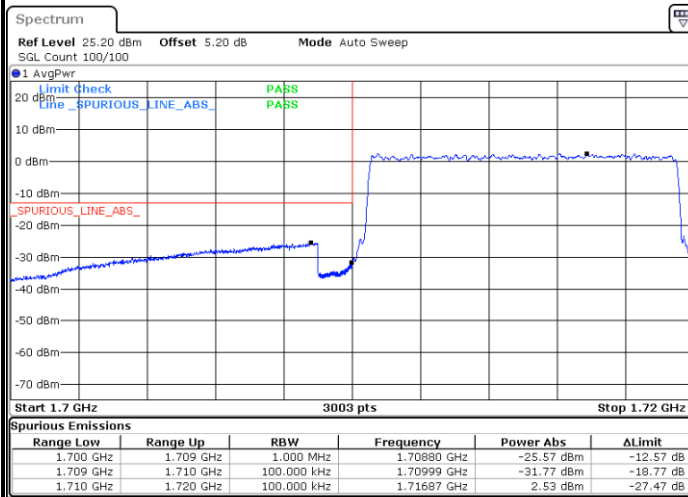
Lowest Band Edge / 1 RB



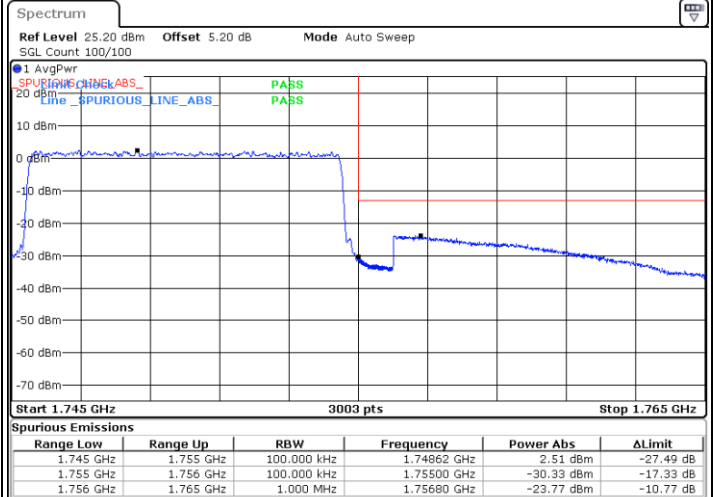
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



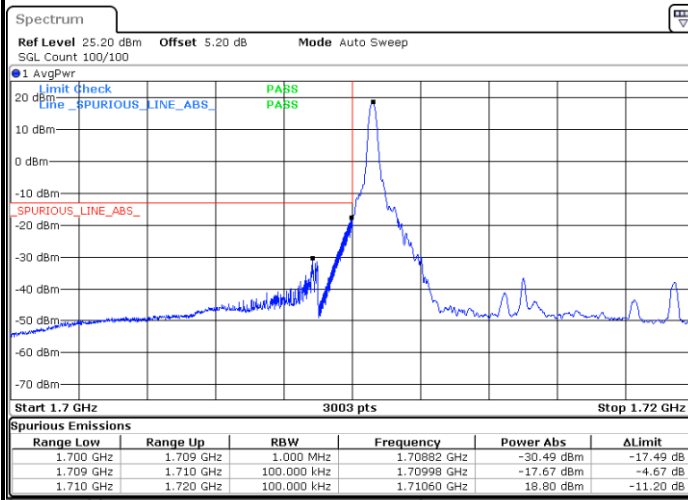
Highest Band Edge / Full RB



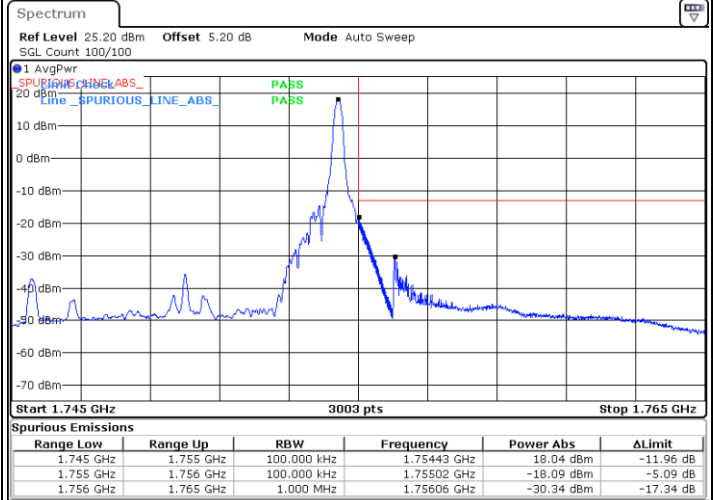


LTE Band 4 / 10MHz / 64QAM

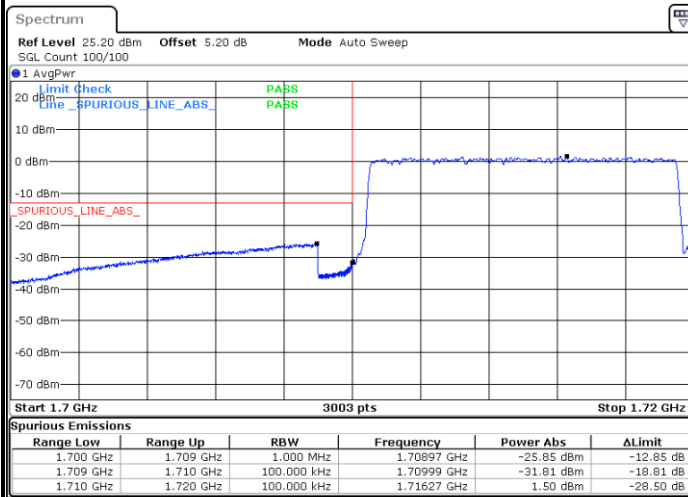
Lowest Band Edge / 1 RB



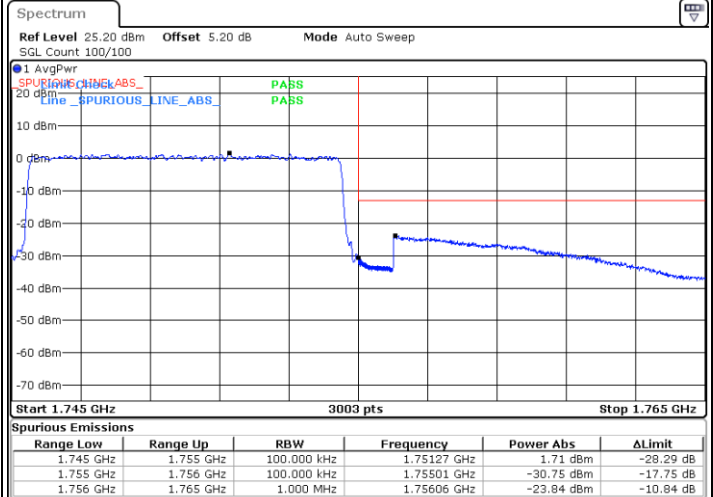
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



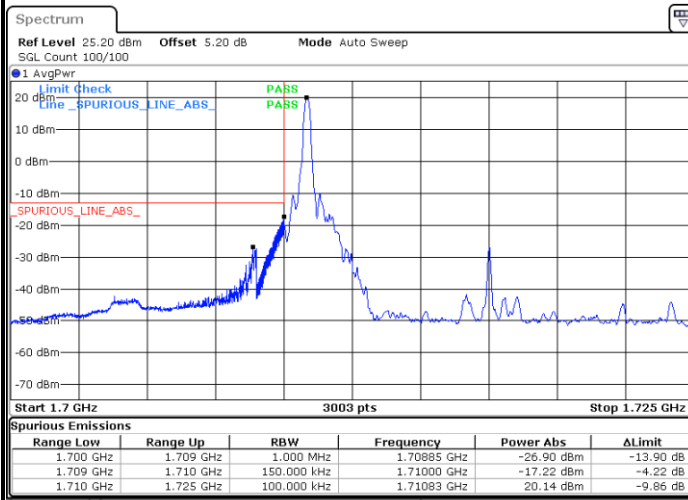
Highest Band Edge / Full RB



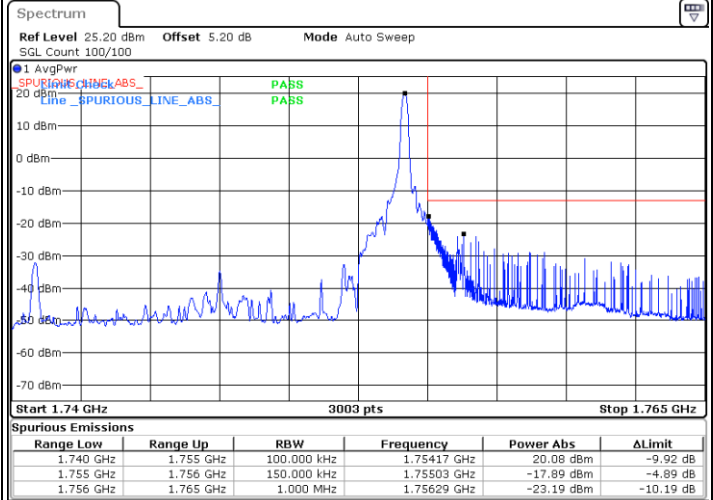


LTE Band 4 / 15MHz / QPSK

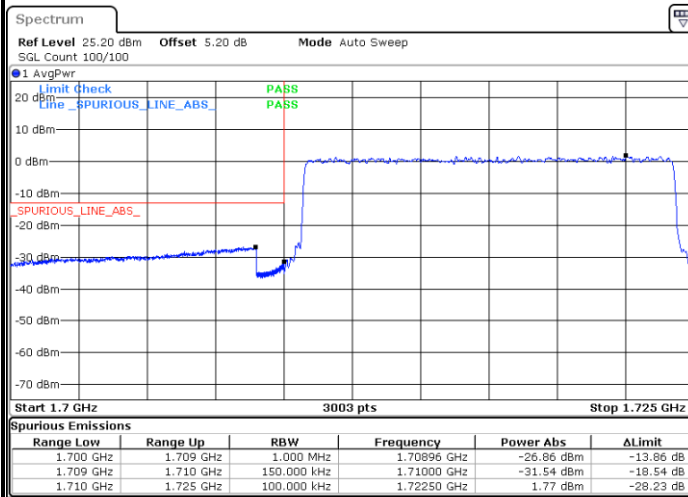
Lowest Band Edge / 1 RB



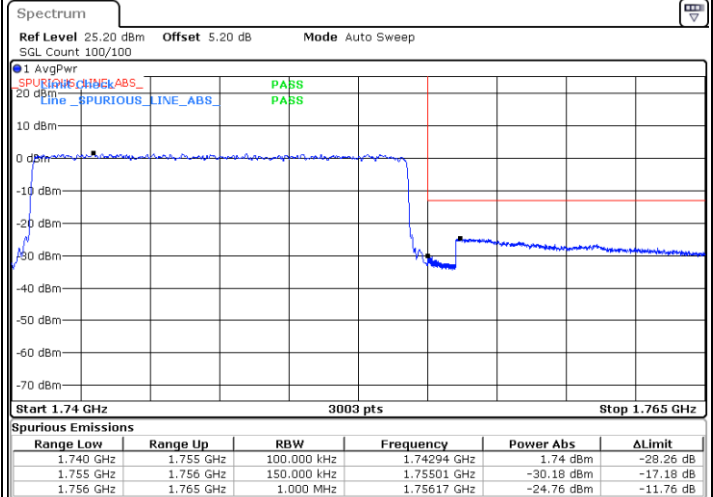
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



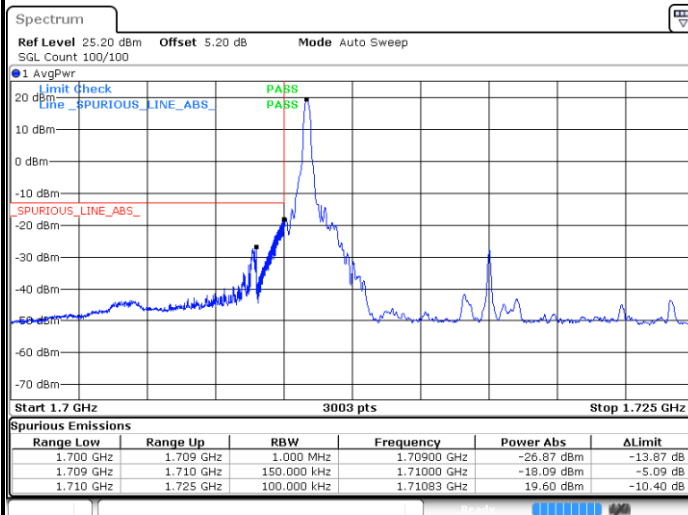
Highest Band Edge / Full RB



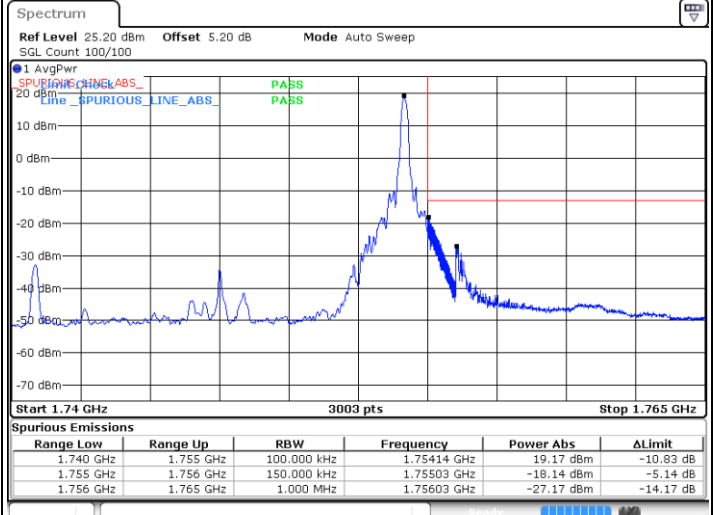


LTE Band 4 / 15MHz / 16QAM

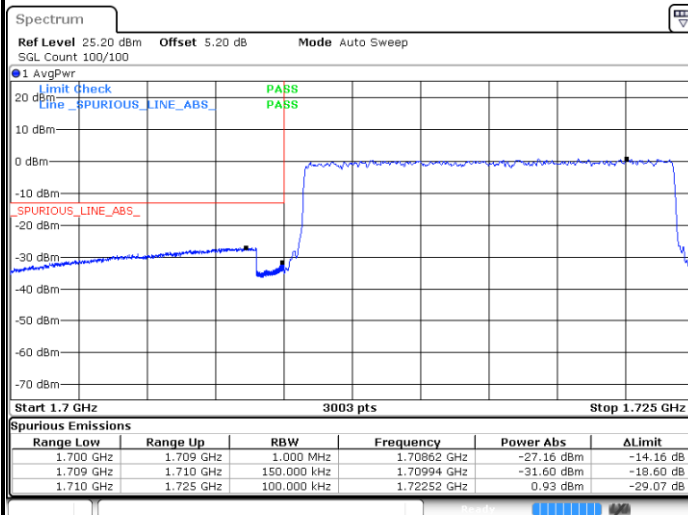
Lowest Band Edge / 1 RB



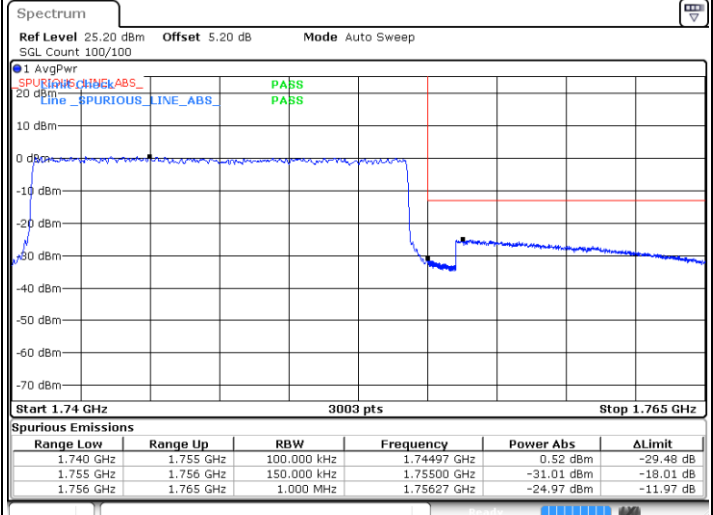
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



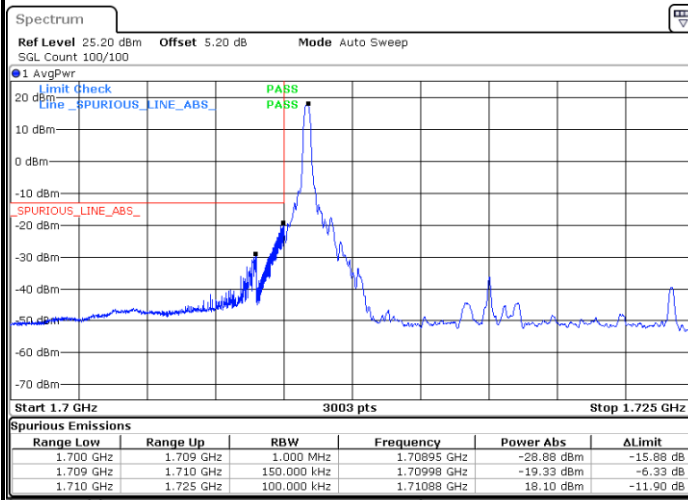
Highest Band Edge / Full RB



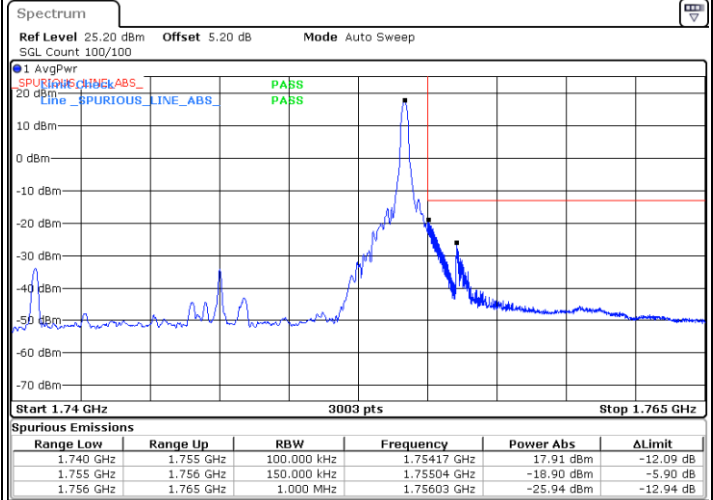


LTE Band 4 / 15MHz / 64QAM

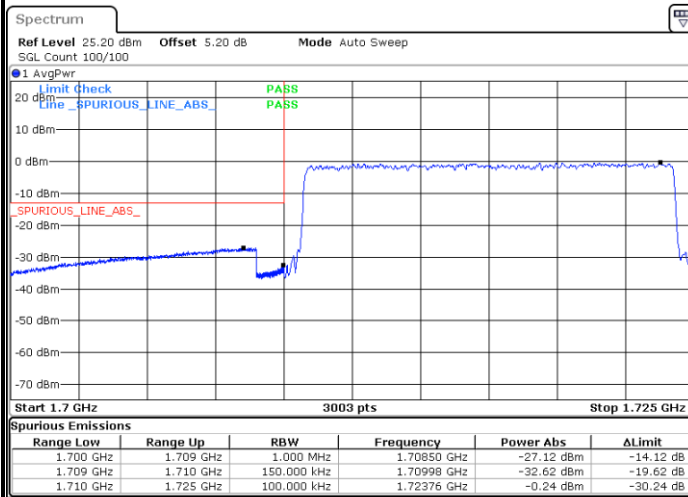
Lowest Band Edge / 1 RB



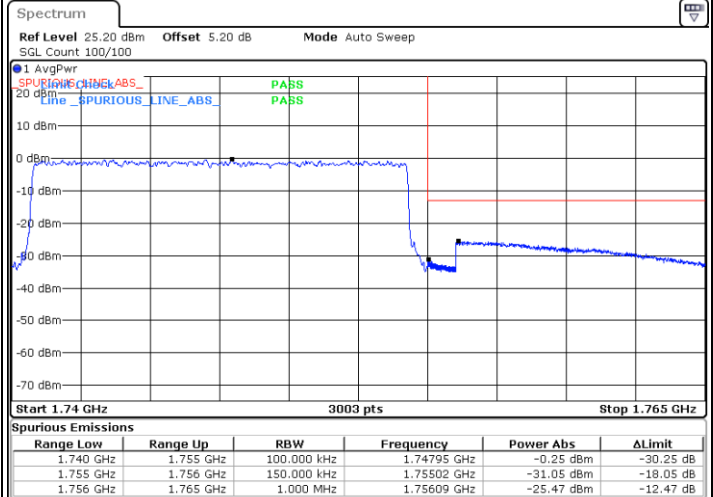
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



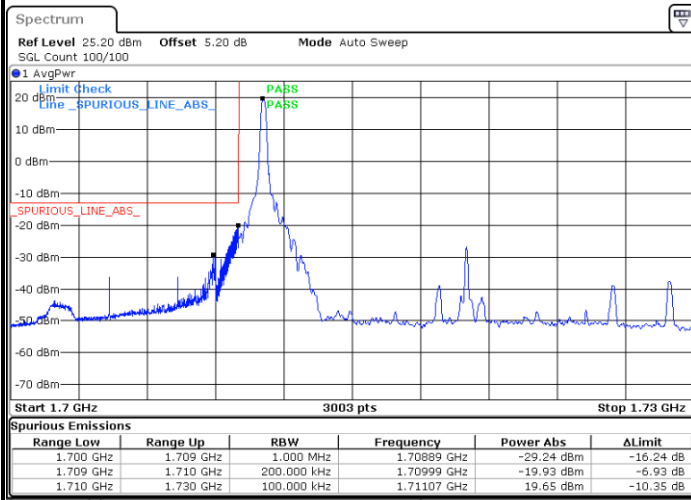
Highest Band Edge / Full RB



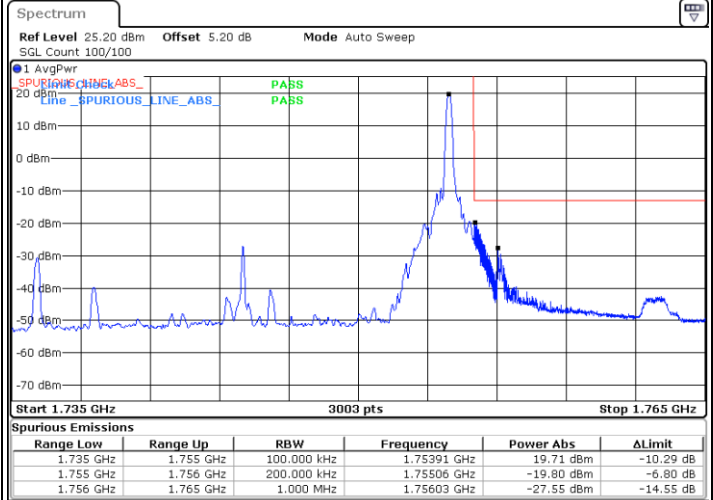


LTE Band 4 / 20MHz / QPSK

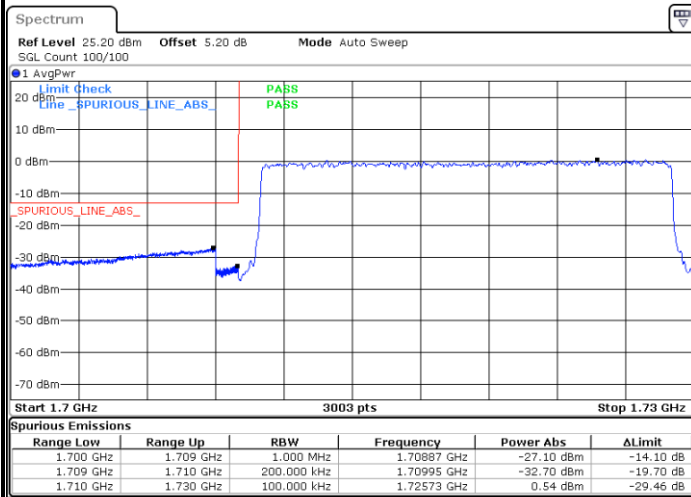
Lowest Band Edge / 1 RB



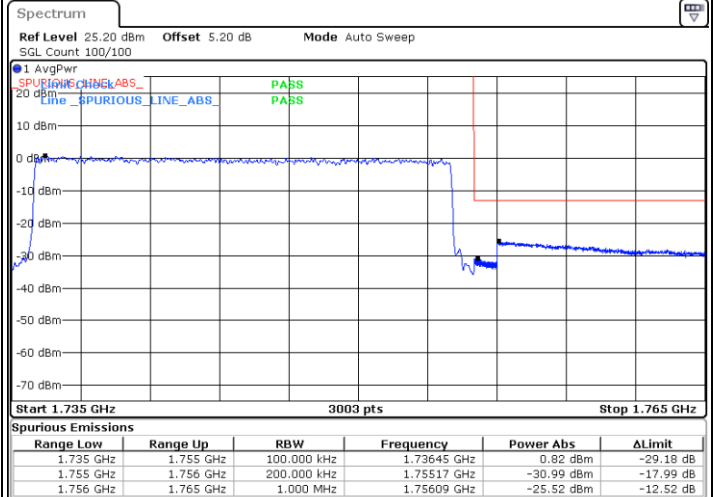
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



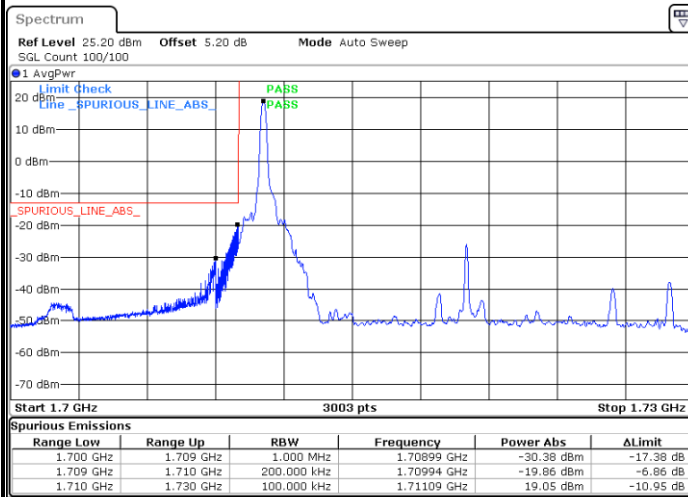
Highest Band Edge / Full RB



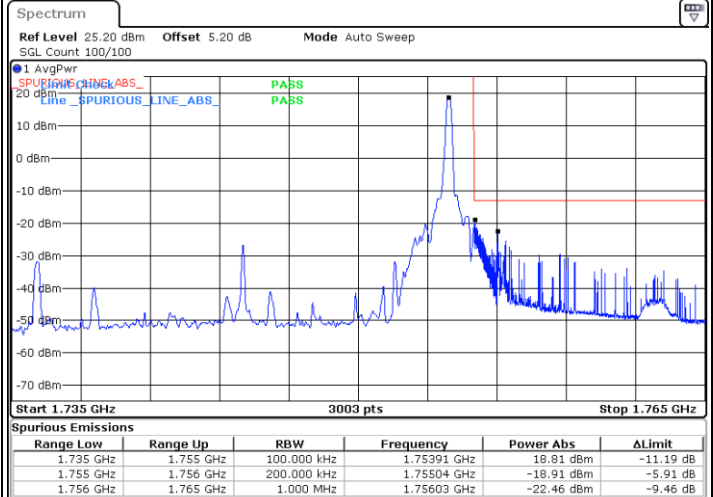


LTE Band 4 / 20MHz / 16QAM

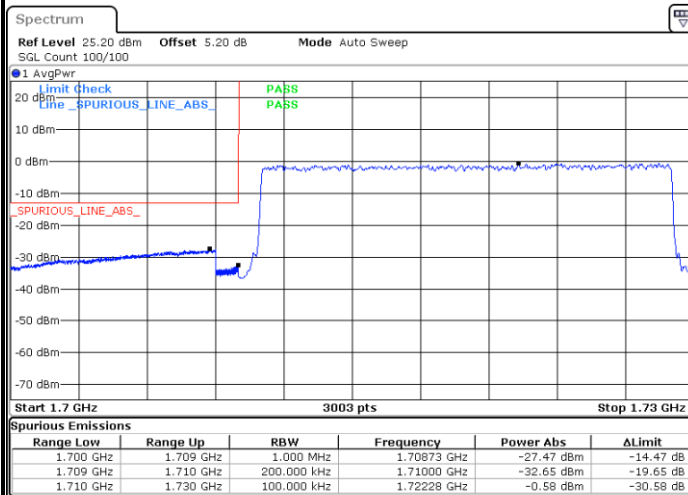
Lowest Band Edge / 1 RB



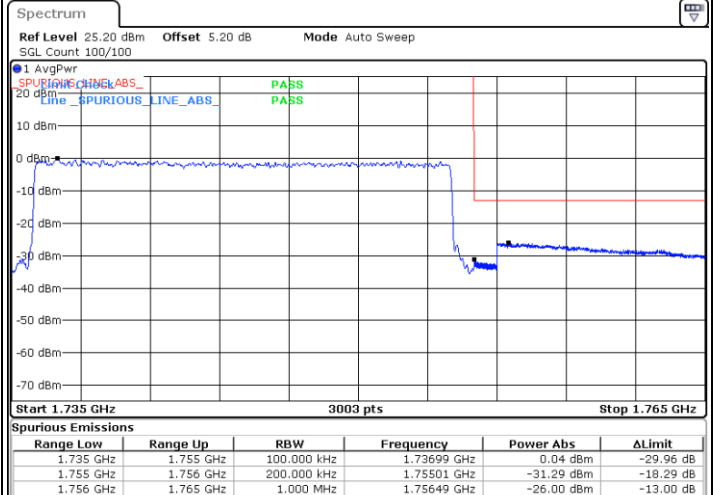
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



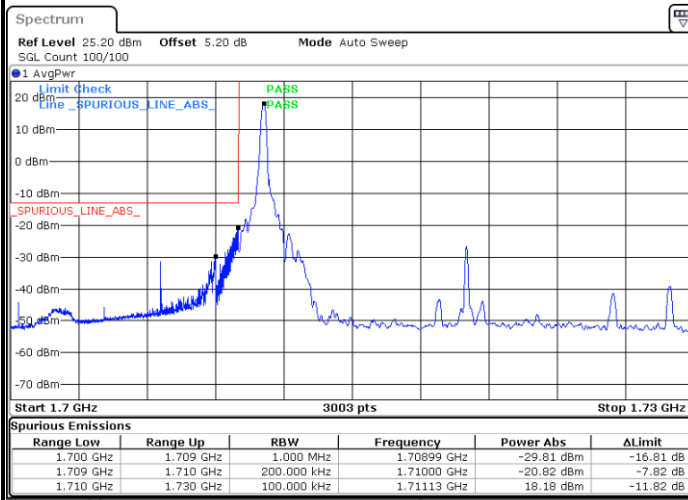
Highest Band Edge / Full RB



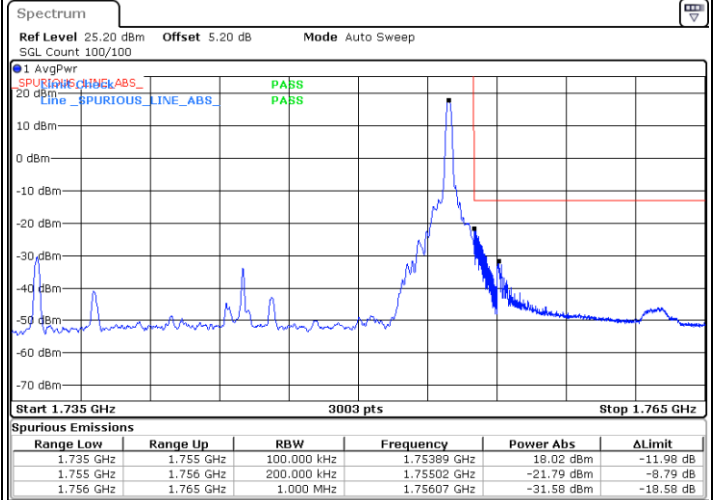


LTE Band 4 / 20MHz / 64QAM

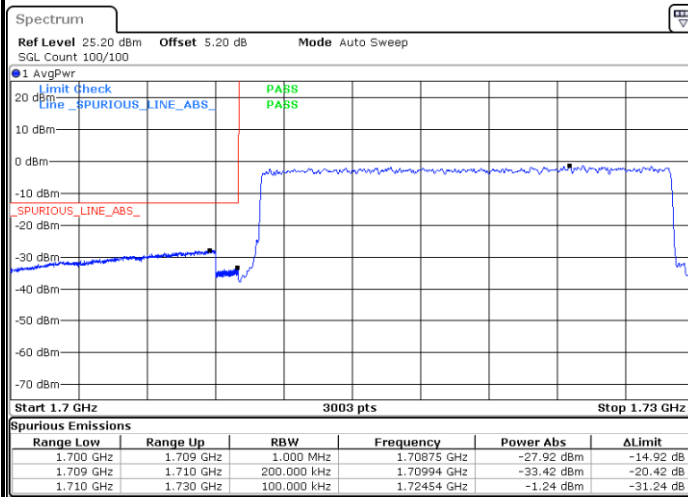
Lowest Band Edge / 1 RB



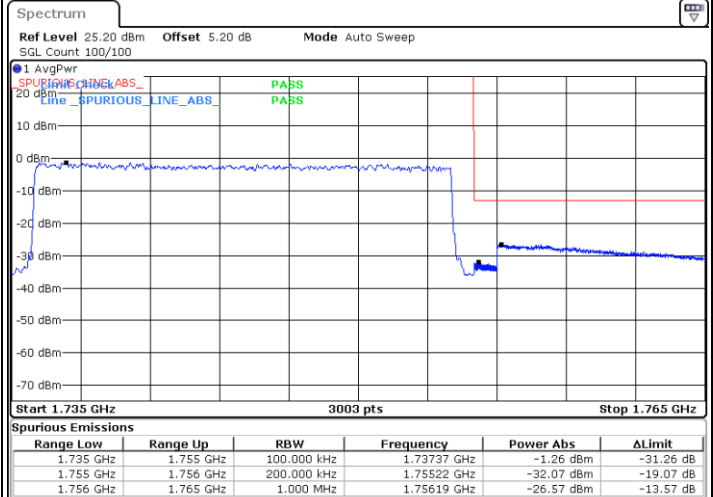
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

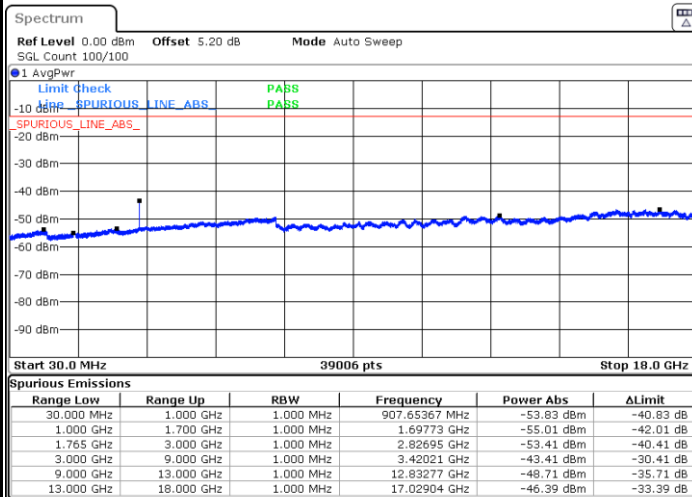




Conducted Spurious Emission

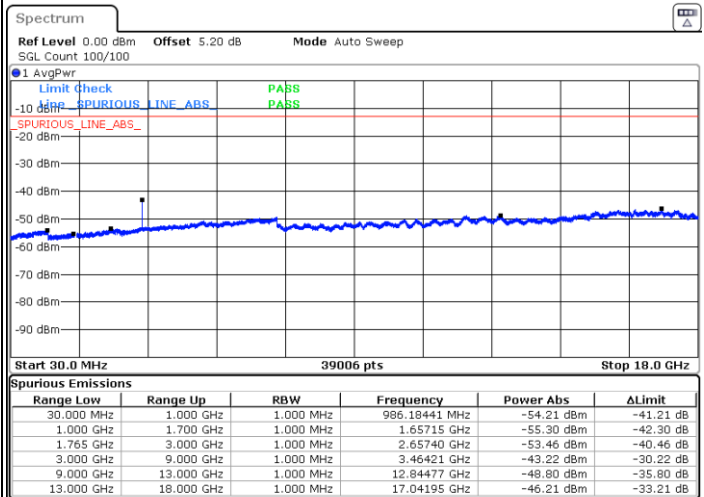
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



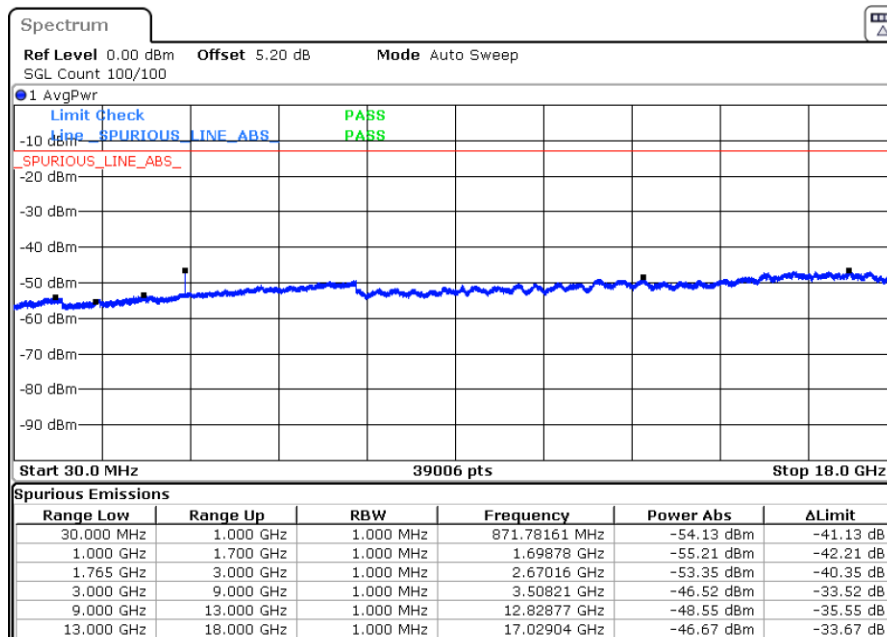
Date: 31 DEC 2021 06:07:58

Middle Channel / QPSK



Date: 31 DEC 2021 06:16:11

Highest Channel / QPSK

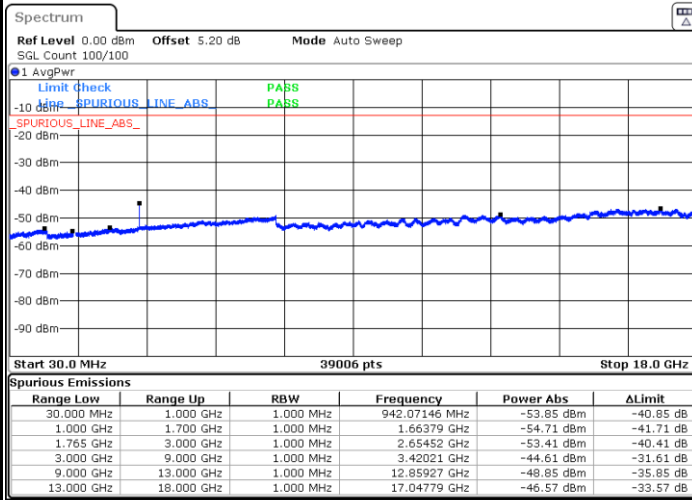


Date: 31 DEC 2021 06:29:36



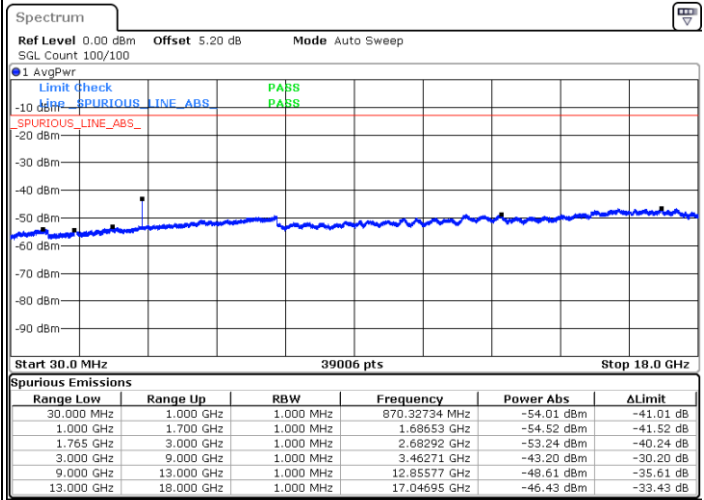
LTE Band 4 / 3MHz

Lowest Channel / QPSK



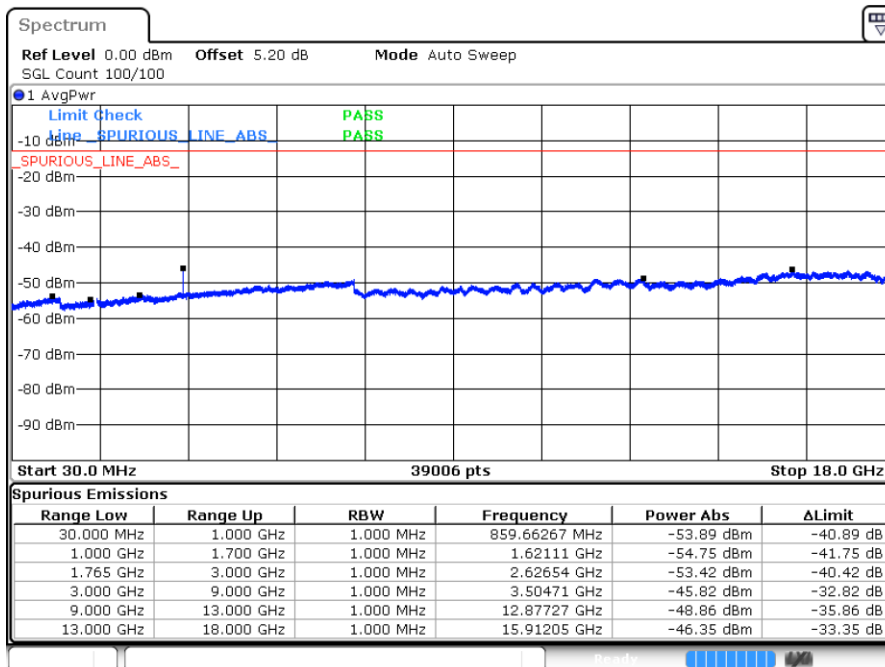
Date: 31 DEC 2021 07:03:54

Middle Channel / QPSK



Date: 31 DEC 2021 09:11:51

Highest Channel / QPSK

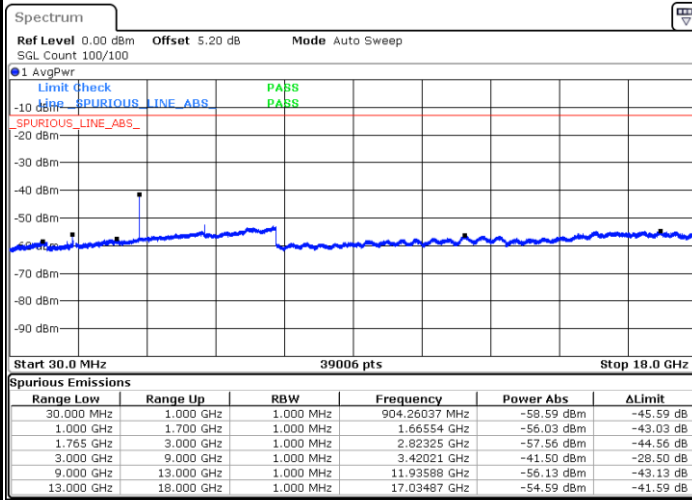


Date: 31 DEC 2021 09:12:59



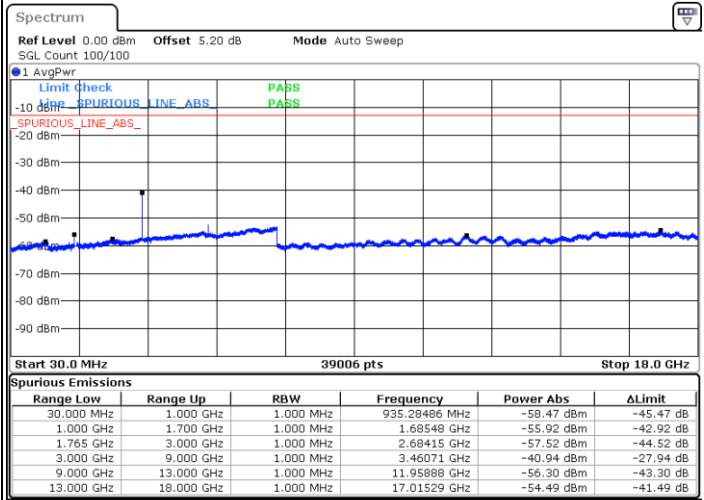
LTE Band 4 / 5MHz

Lowest Channel / QPSK



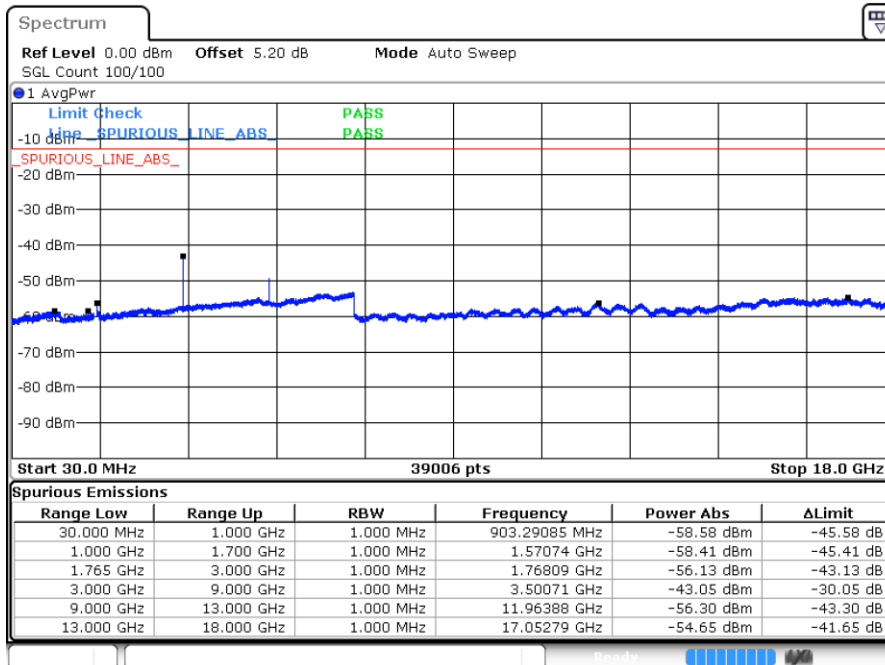
Date: 31 DEC 2021 09:21:10

Middle Channel / QPSK



Date: 31 DEC 2021 09:29:10

Highest Channel / QPSK

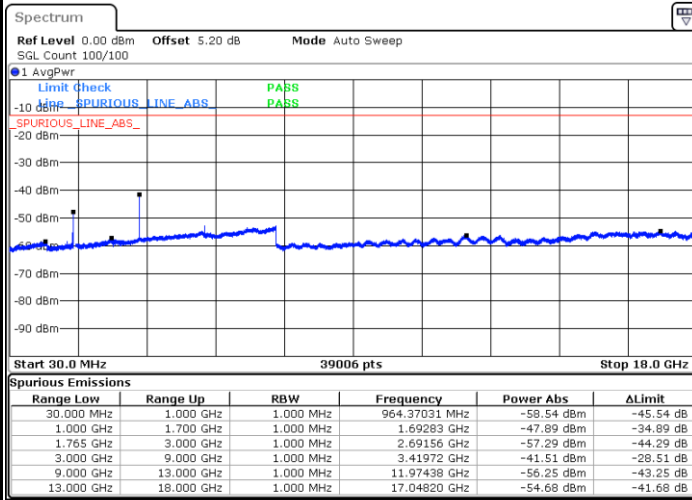


Date: 31 DEC 2021 09:30:18



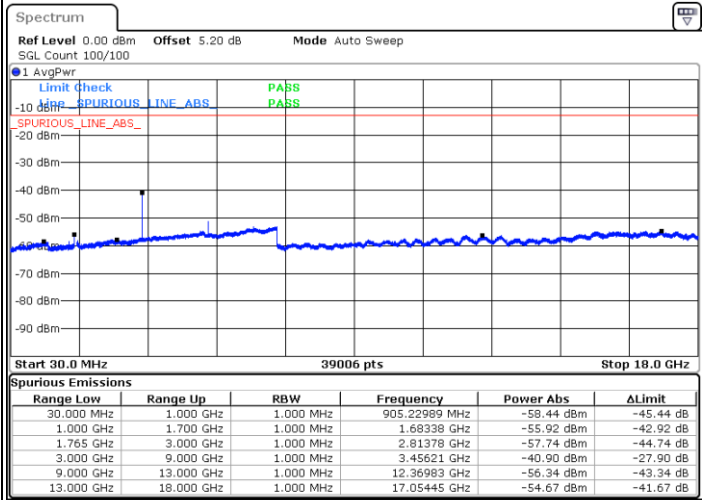
LTE Band 4 / 10MHz

Lowest Channel / QPSK



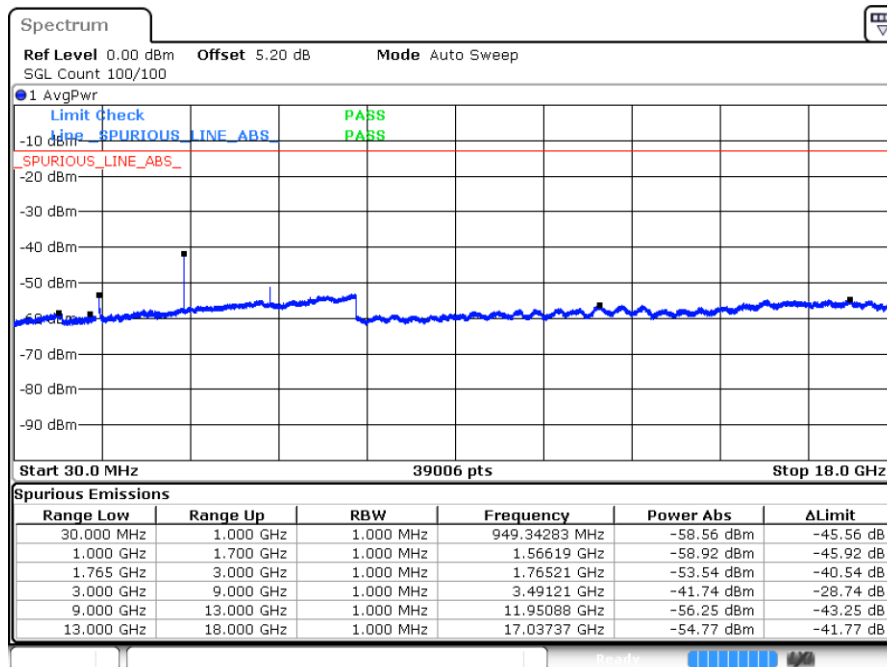
Date: 31 DEC 2021 09:38:28

Middle Channel / QPSK



Date: 31 DEC 2021 09:46:28

Highest Channel / QPSK

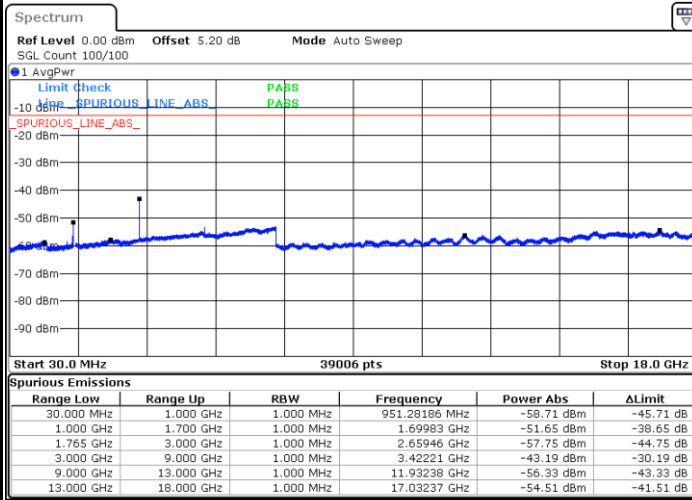


Date: 31 DEC 2021 09:47:36



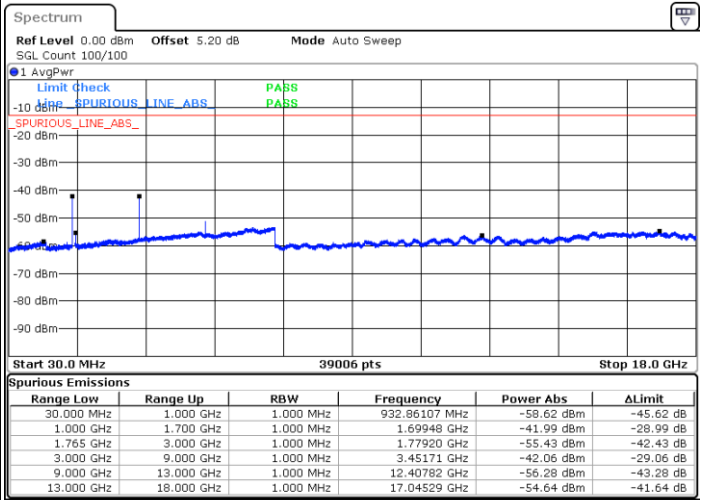
LTE Band 4 / 15MHz

Lowest Channel / QPSK



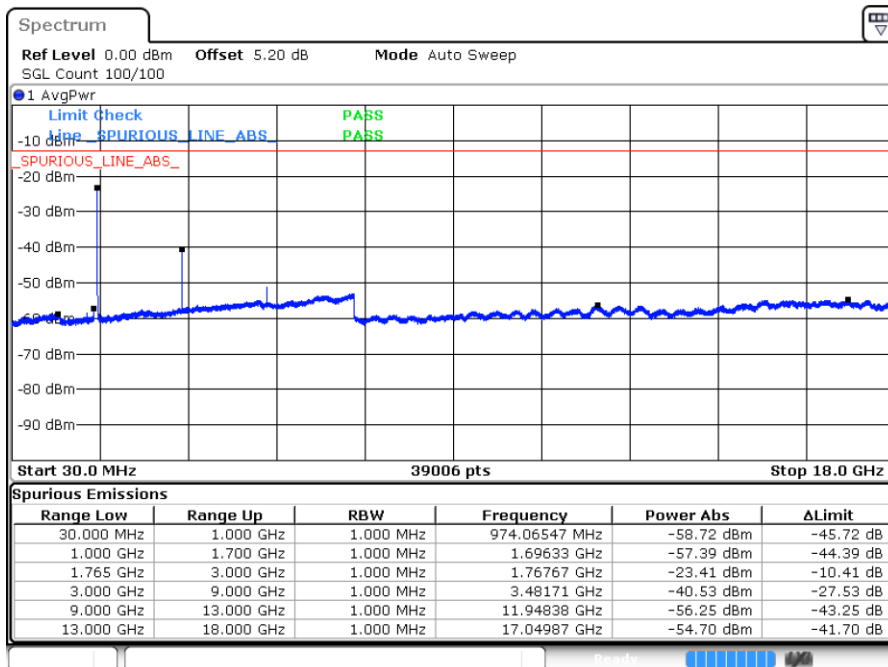
Date: 31 DEC 2021 09:55:47

Middle Channel / QPSK



Date: 31 DEC 2021 10:03:46

Highest Channel / QPSK

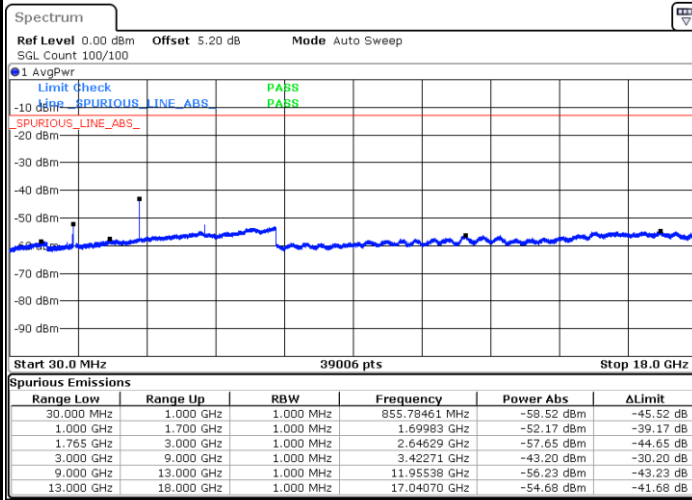


Date: 31 DEC 2021 10:04:54



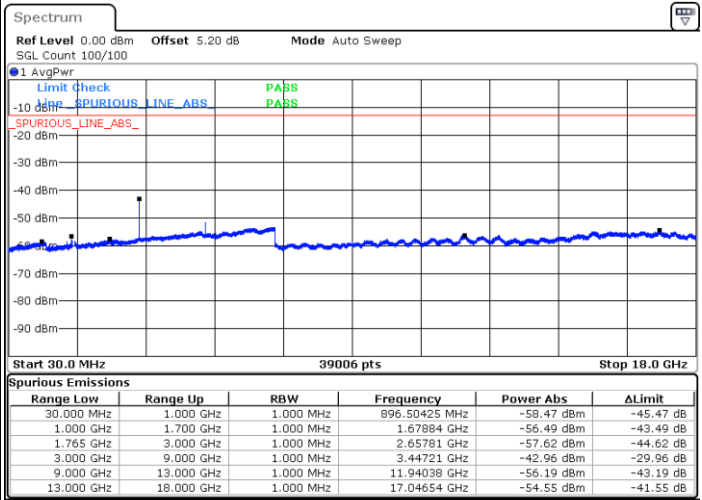
LTE Band 4 / 20MHz

Lowest Channel / QPSK



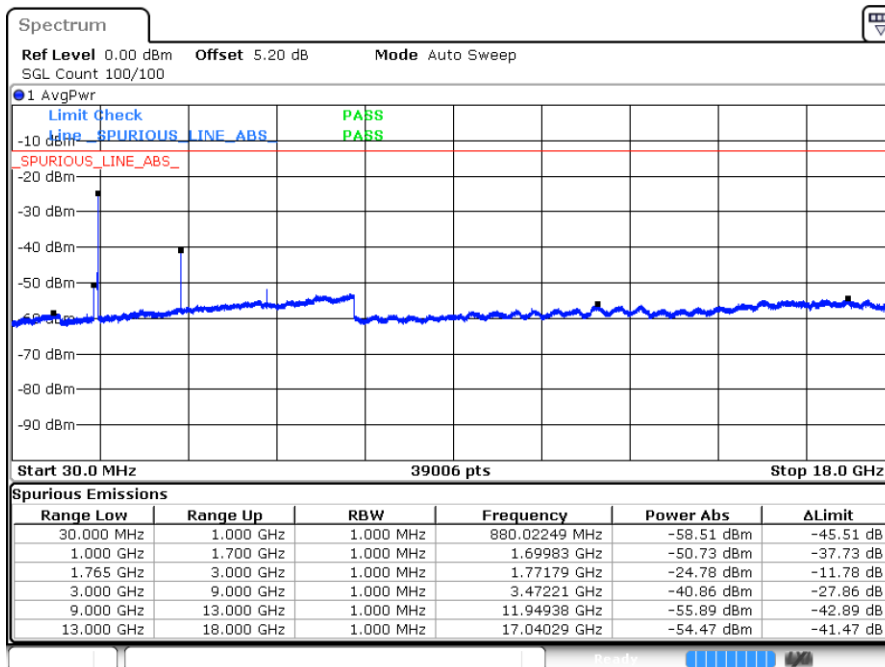
Date: 31 DEC 2021 10:13:04

Middle Channel / QPSK



Date: 31 DEC 2021 10:21:05

Highest Channel / QPSK



Date: 31 DEC 2021 10:22:12

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0034	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Levi Zhuo	Temperature :	22~23℃
		Relative Humidity :	41~42%

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)
Lowest	3705	-55.22	-13	-42.22	-67.48	2.641	14.90	H
	5550	-45.72	-13	-32.72	-57.58	2.94	14.80	H
	7410	-52.30	-13	-39.30	-62.07	3.39	13.16	H
	3705	-55.09	-13	-42.09	-67.35	2.64	14.90	V
	5550	-51.56	-13	-38.56	-63.42	2.94	14.80	V
	7410	-52.09	-13	-39.09	-61.86	3.39	13.16	V

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

LTE Band 4 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	3456	-54.75	-13	-41.75	-65.49	2.604	13.34	H
	5184	-53.42	-13	-40.42	-63.93	3.011	13.52	H
	6915	-53.29	-13	-40.29	-63.49	3.271	13.47	H
	3456	-49.46	-13	-36.46	-60.20	2.604	13.34	V
	5184	-53.71	-13	-40.71	-64.22	3.011	13.52	V
	6912	-53.39	-13	-40.39	-63.59	3.271	13.47	V

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