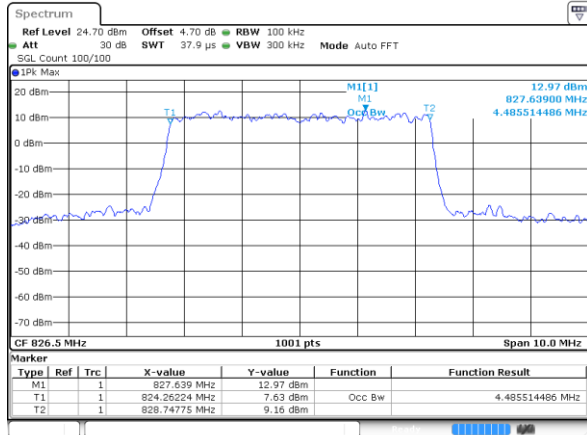


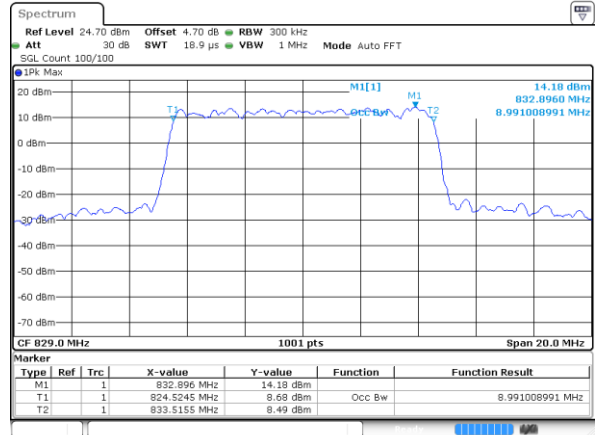


LTE Band 5

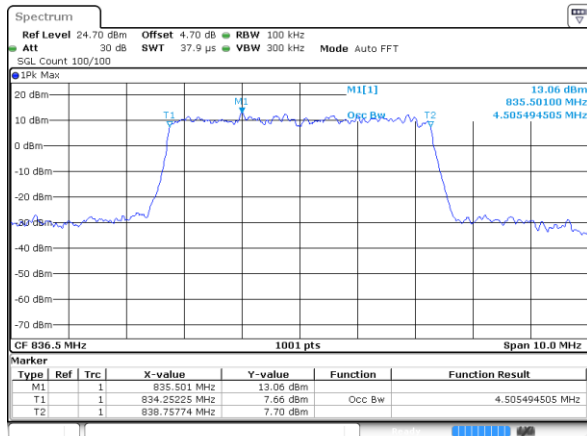
Lowest Channel / 5MHz / 64QAM



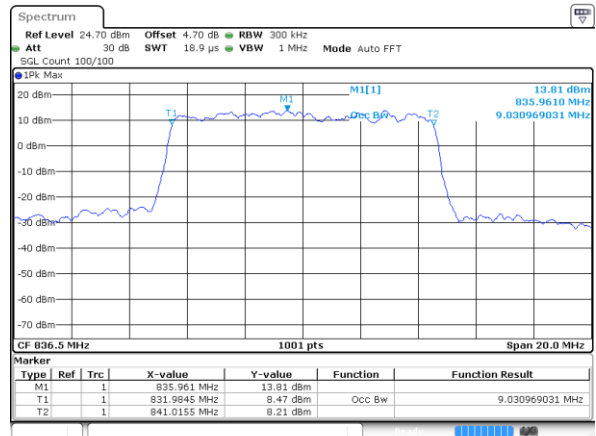
Lowest Channel / 10MHz / 64QAM



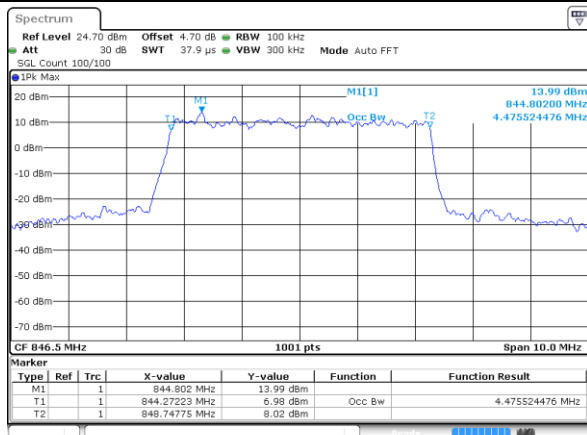
Middle Channel / 5MHz / 64QAM



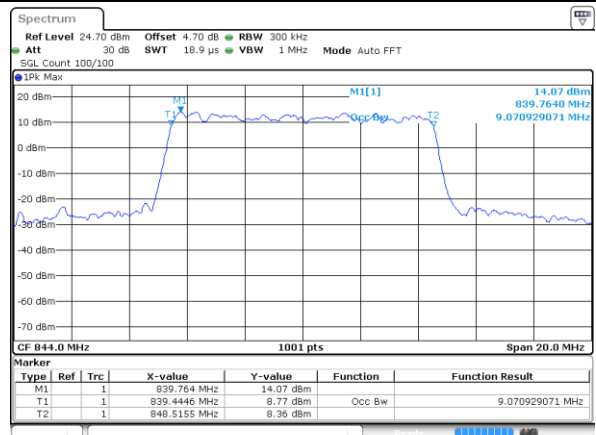
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

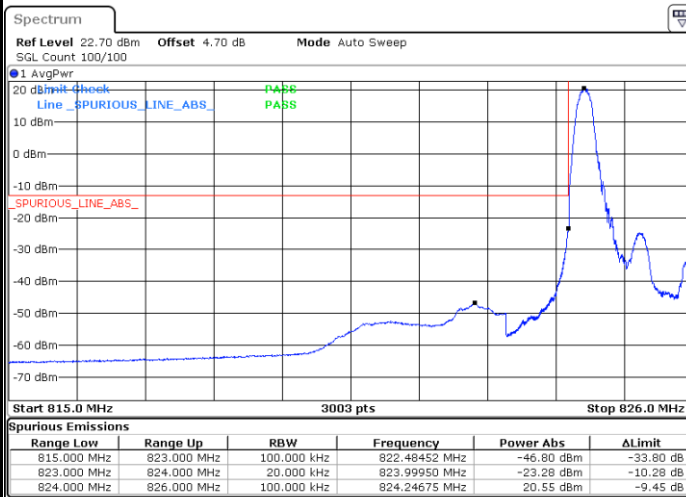




Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

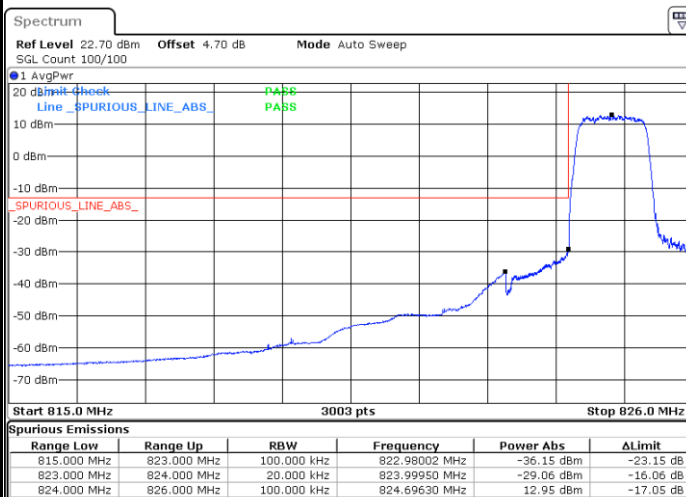
Lowest Band Edge / 1RB



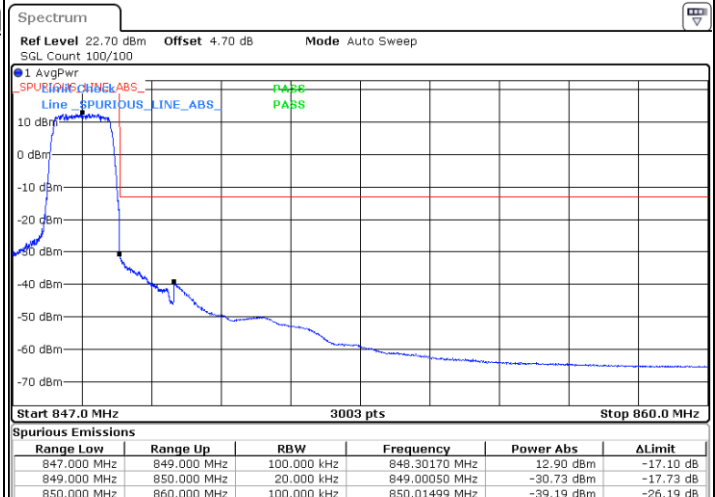
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



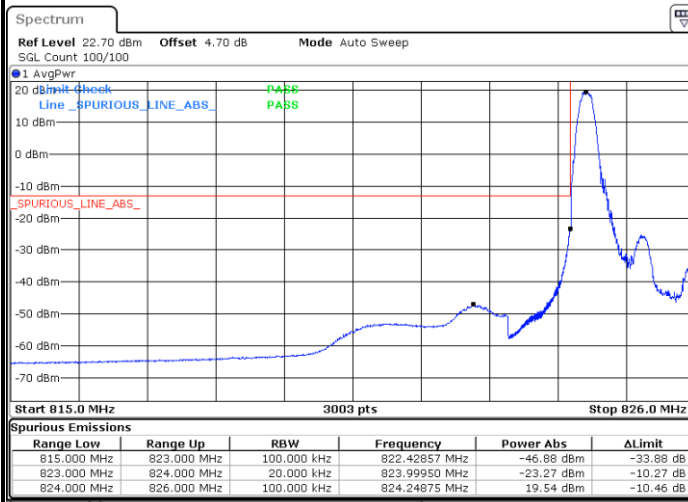
Highest Band Edge / Full RB



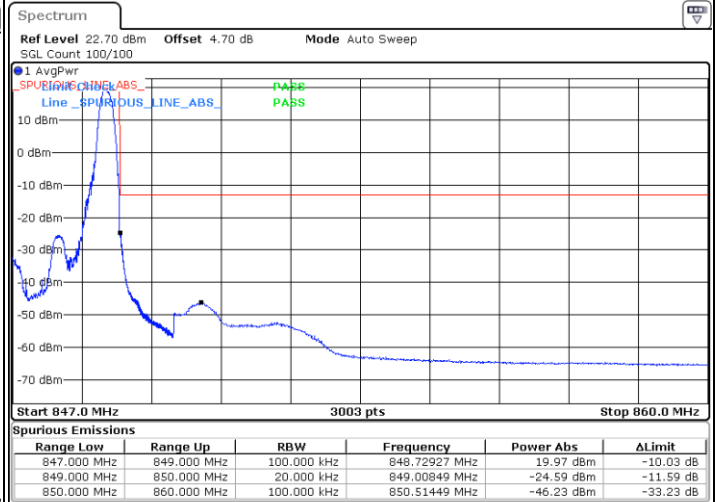


LTE Band 5 / 1.4MHz / 16QAM

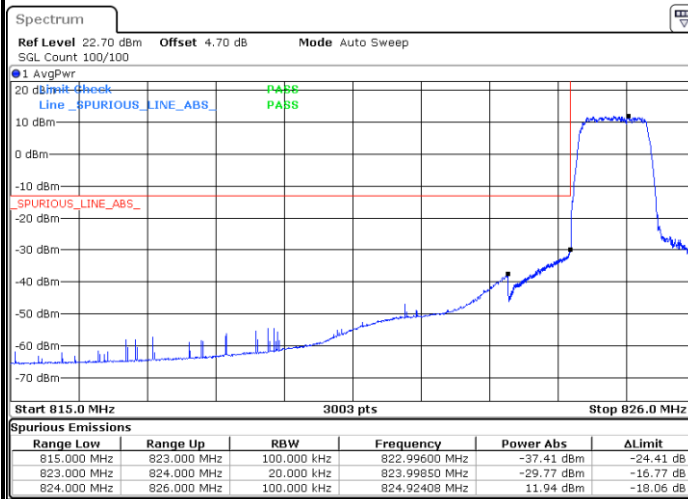
Lowest Band Edge / 1 RB



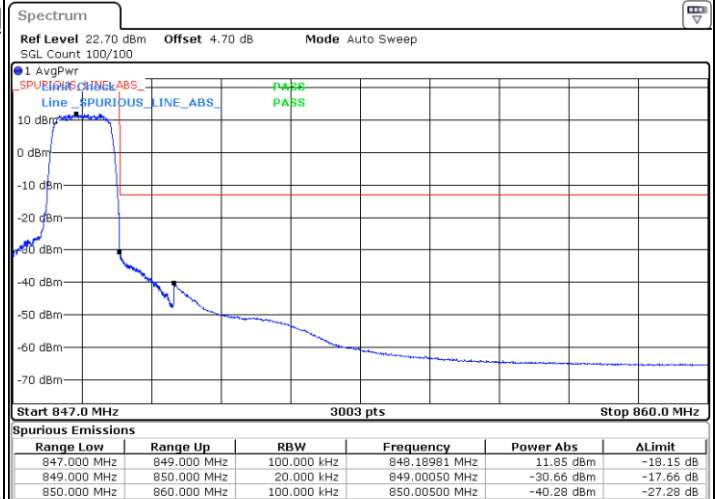
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



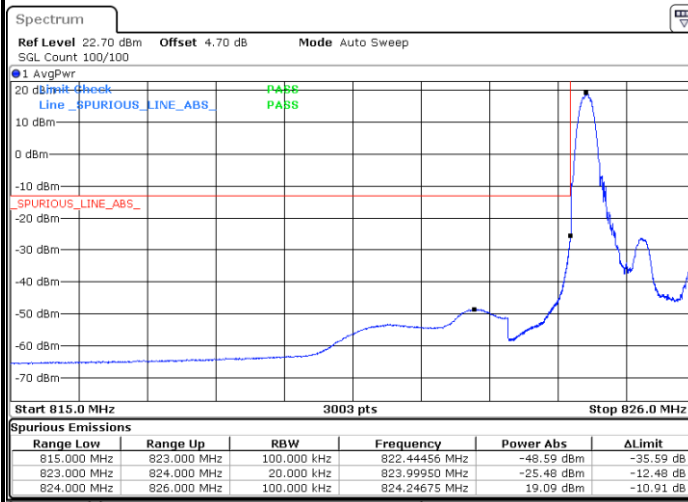
Highest Band Edge / Full RB



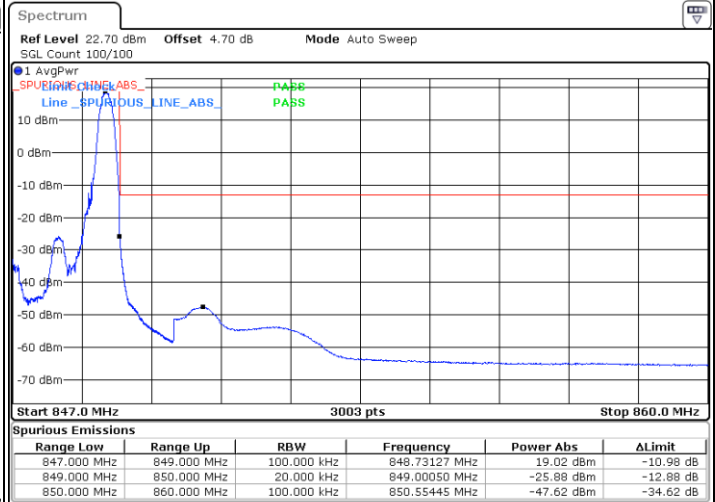


LTE Band 5 / 1.4MHz / 64QAM

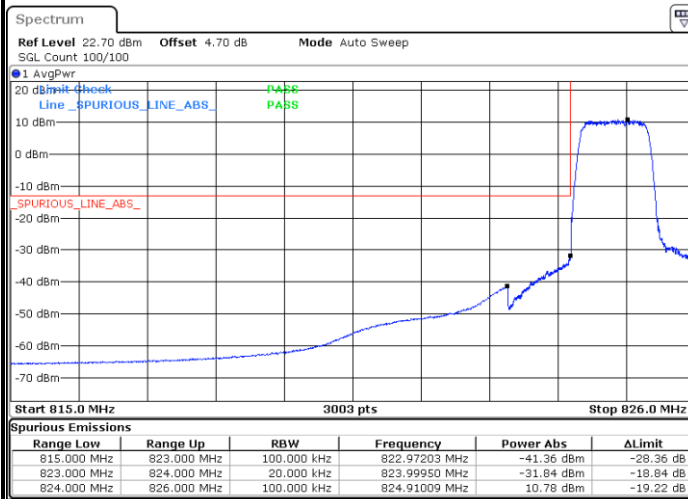
Lowest Band Edge / 1 RB



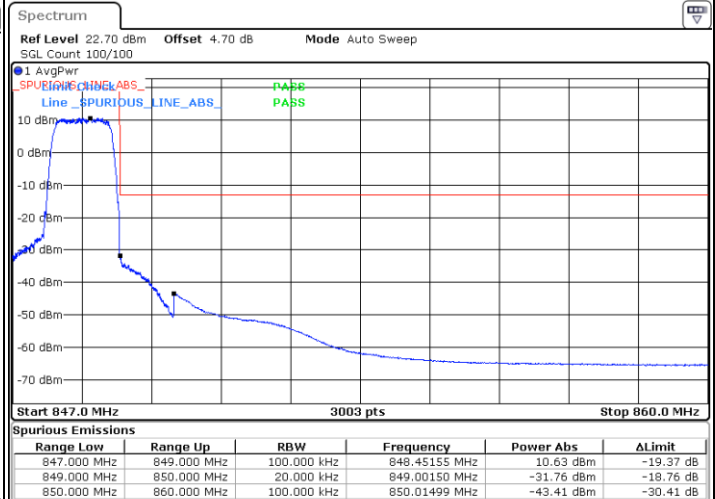
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



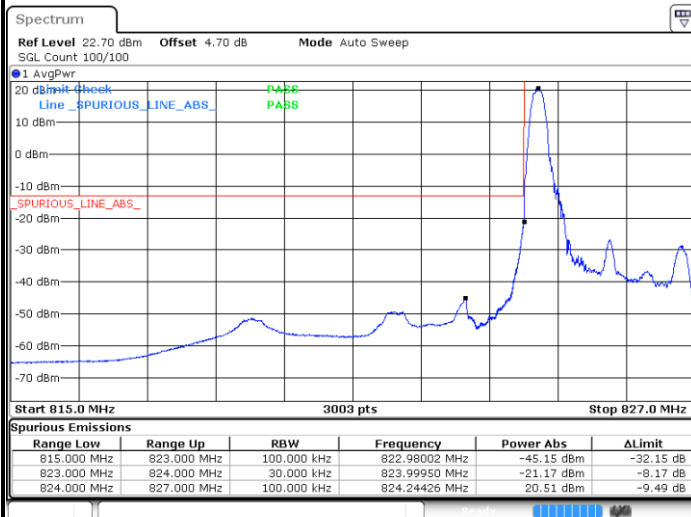
Highest Band Edge / Full RB



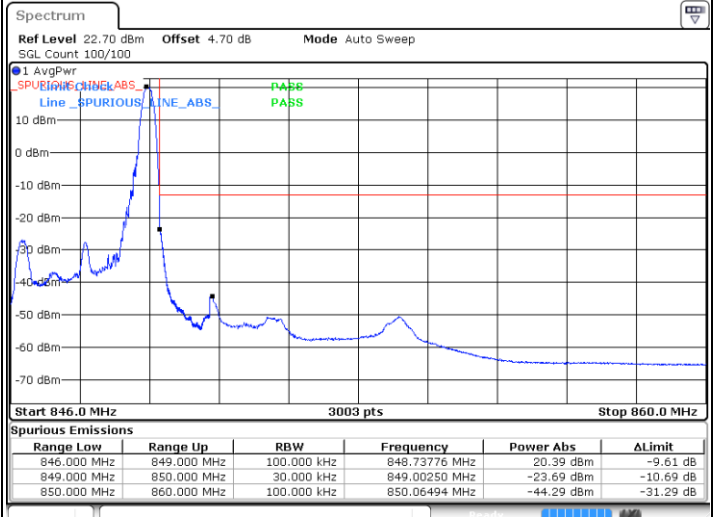


LTE Band 5 / 3MHz / QPSK

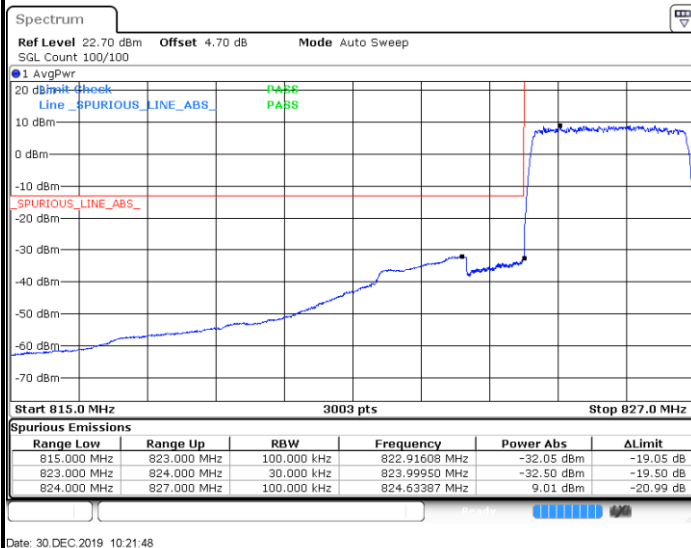
Lowest Band Edge / 1RB



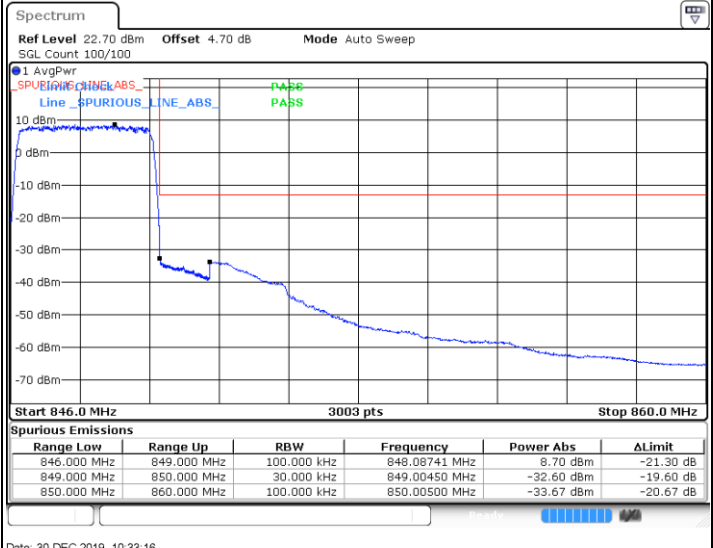
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



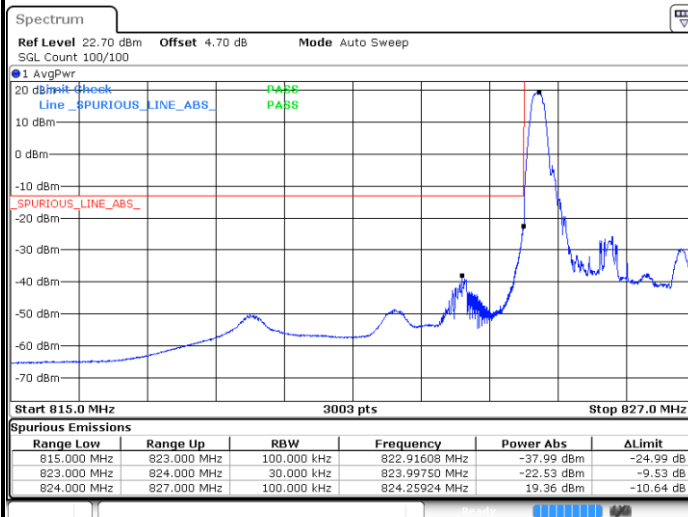
Highest Band Edge / Full RB



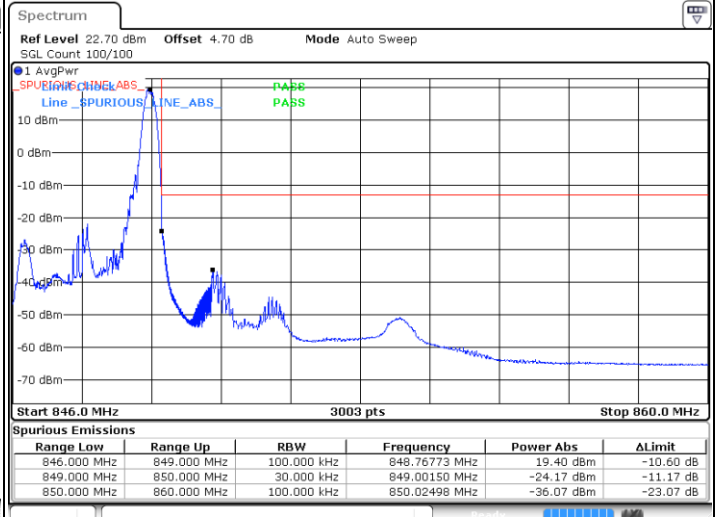


LTE Band 5 / 3MHz / 16QAM

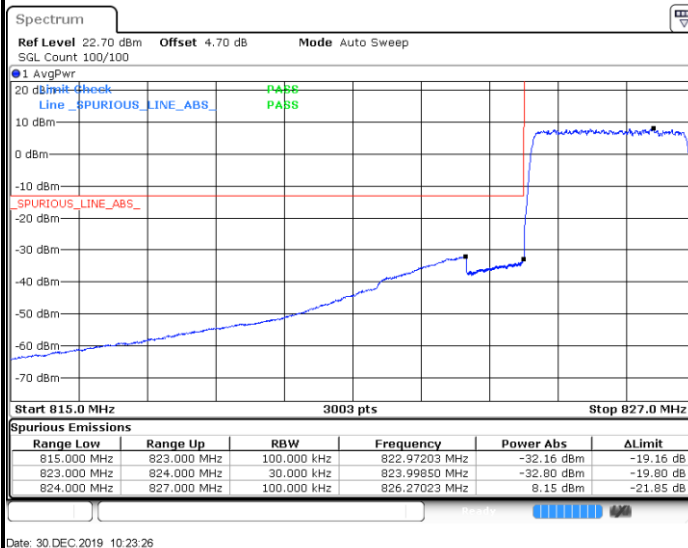
Lowest Band Edge / 1 RB



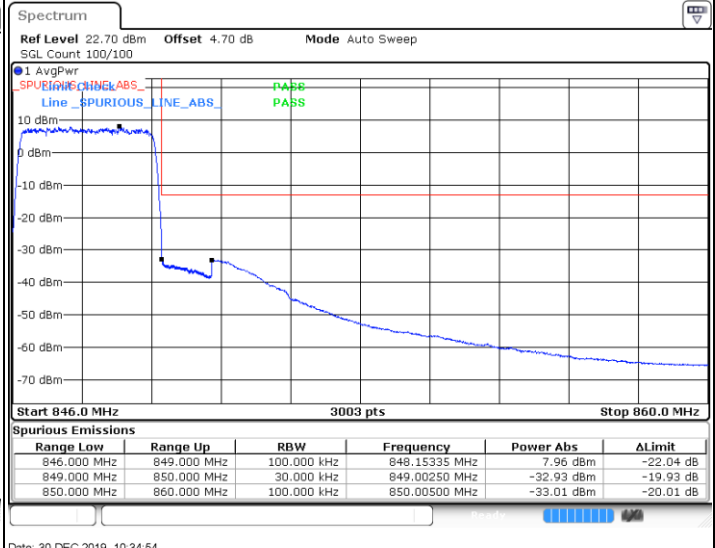
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



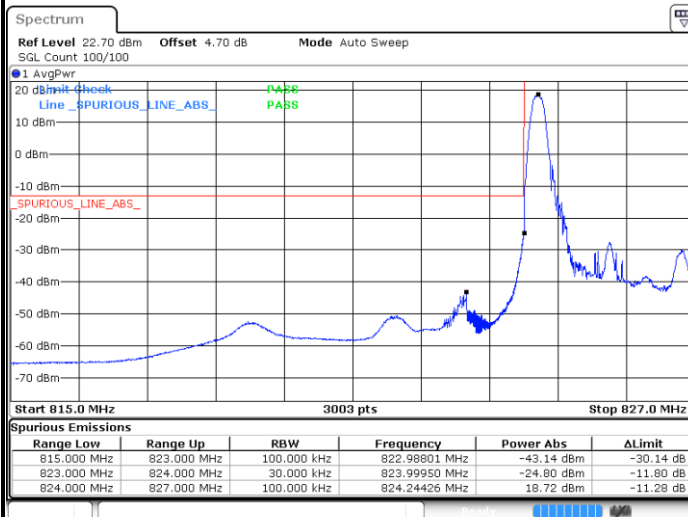
Highest Band Edge / Full RB



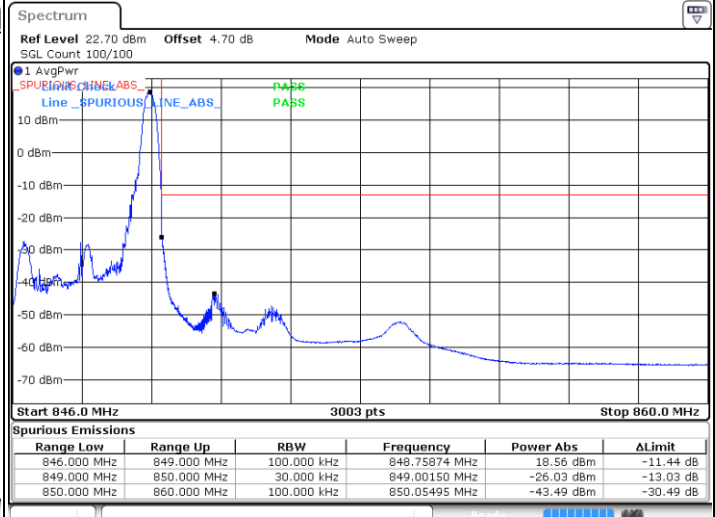


LTE Band 5 / 3MHz / 64QAM

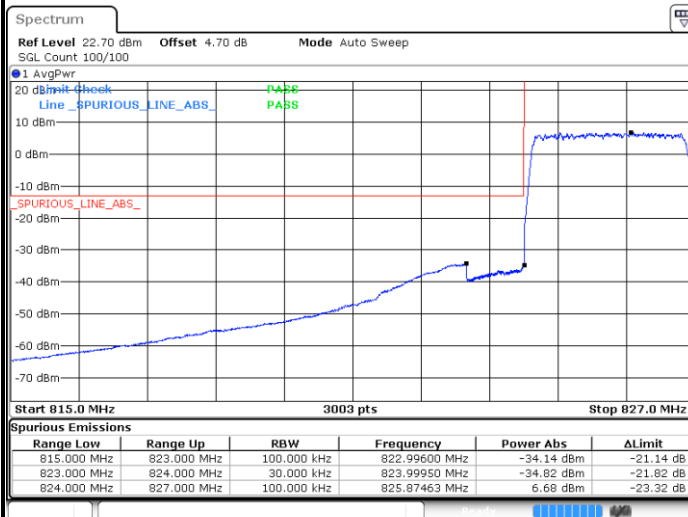
Lowest Band Edge / 1 RB



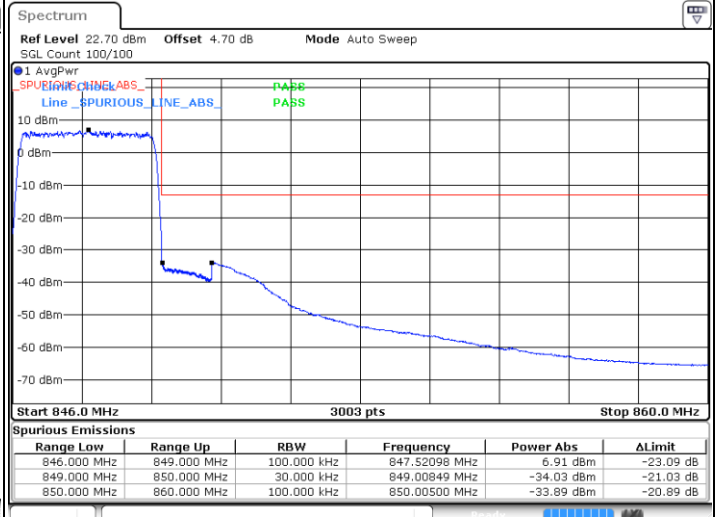
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



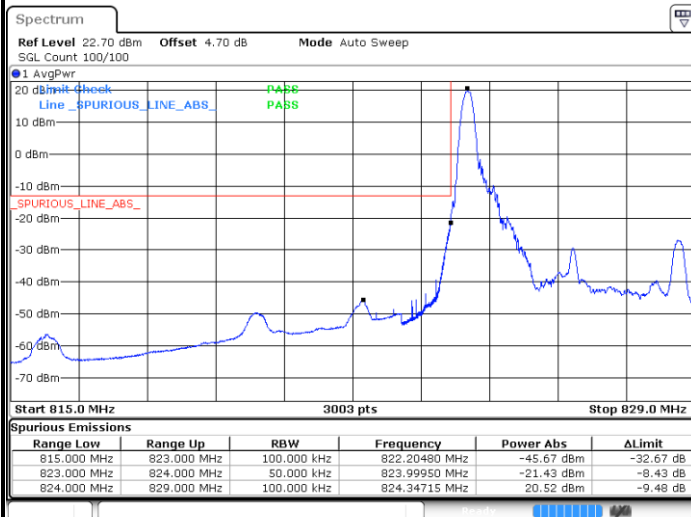
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / QPSK

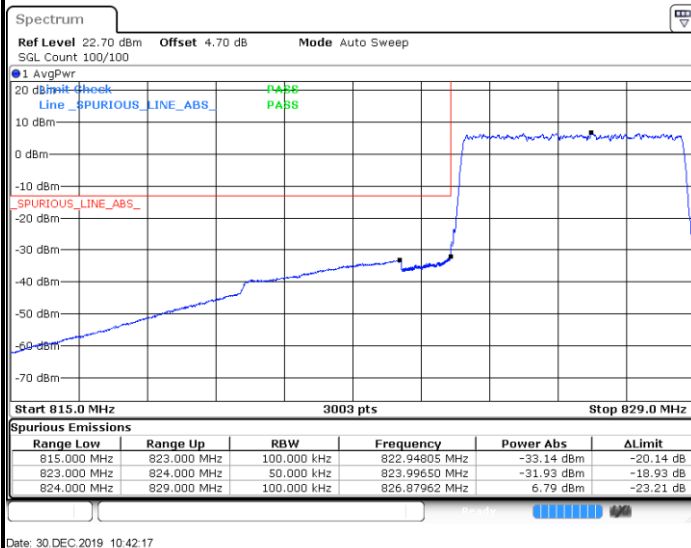
Lowest Band Edge / 1 RB



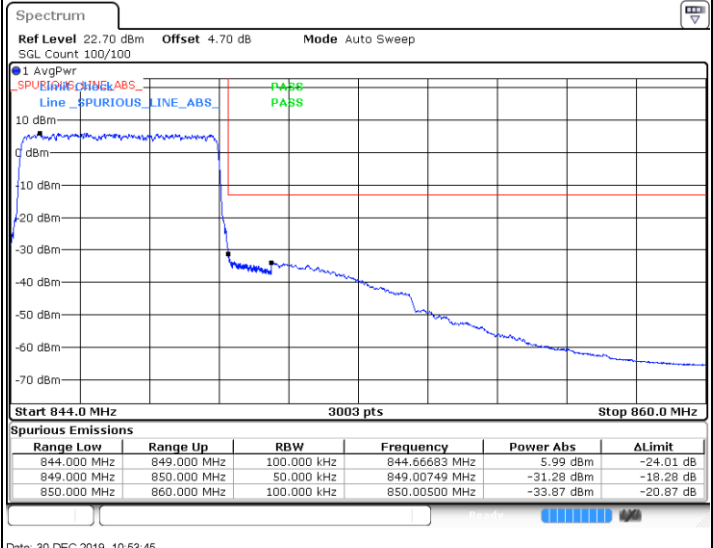
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 16QAM

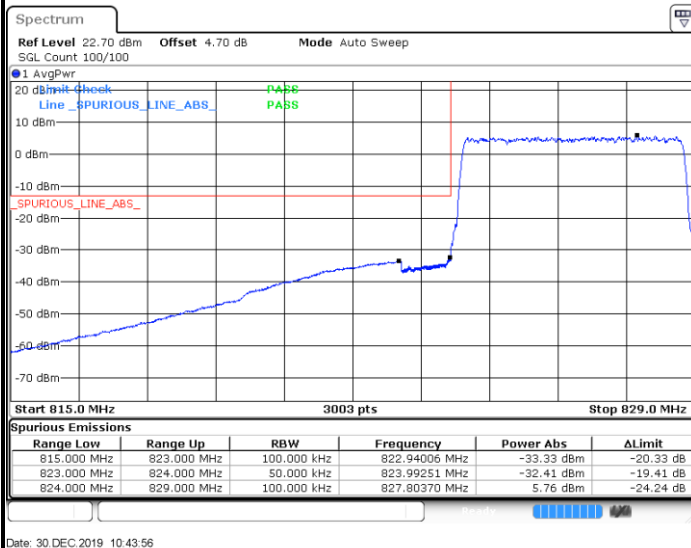
Lowest Band Edge / 1RB



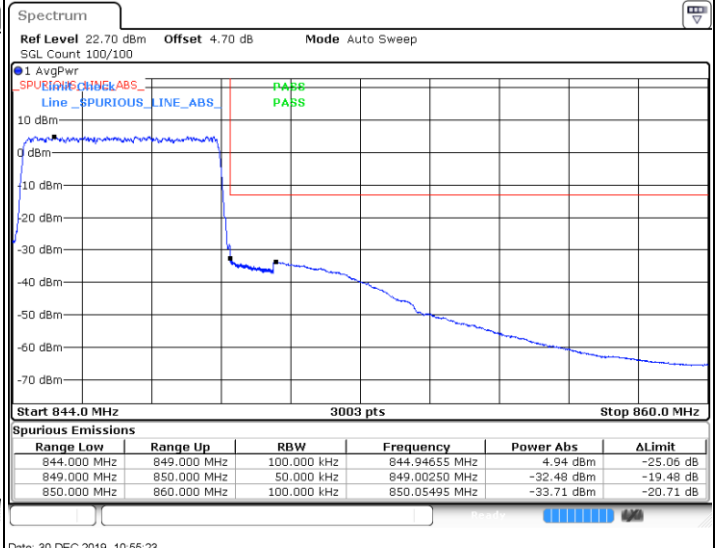
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



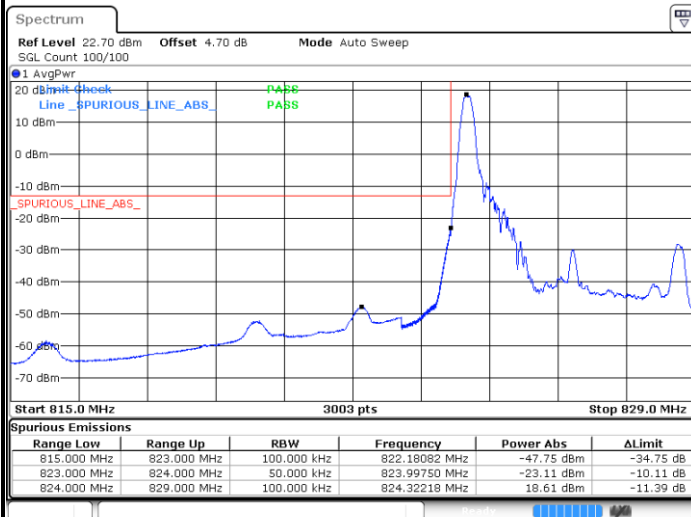
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 64QAM

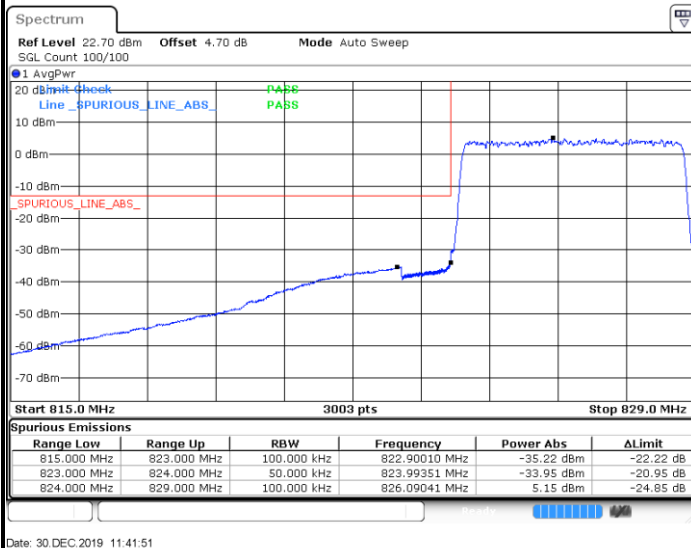
Lowest Band Edge / 1RB



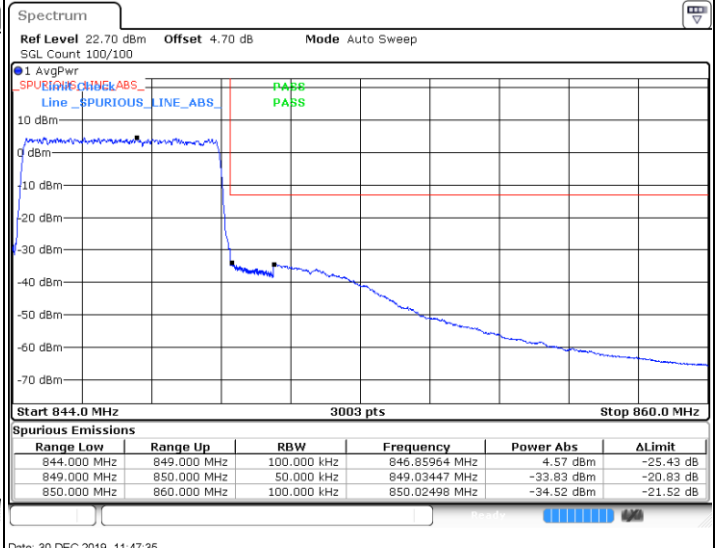
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



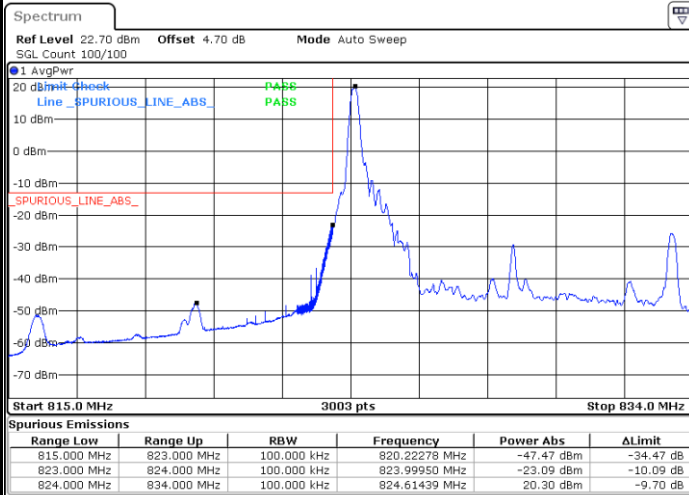
Highest Band Edge / Full RB



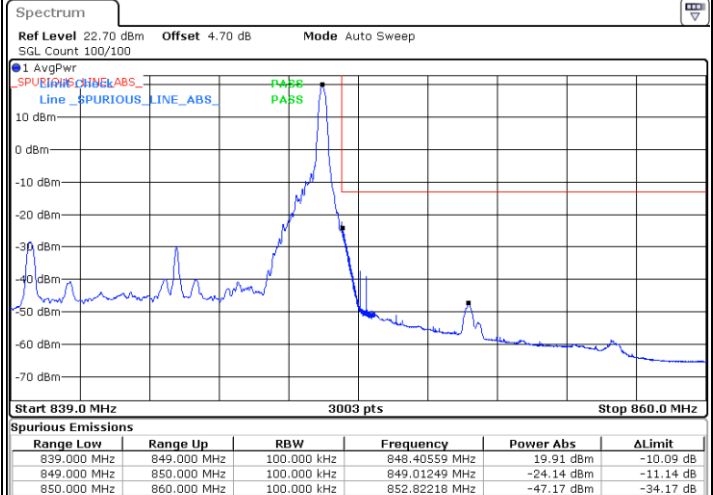


LTE Band 5 / 10MHz / QPSK

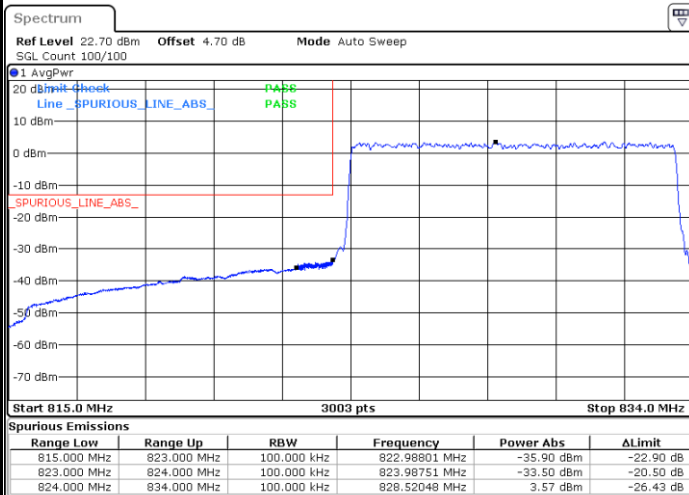
Lowest Band Edge / 1 RB



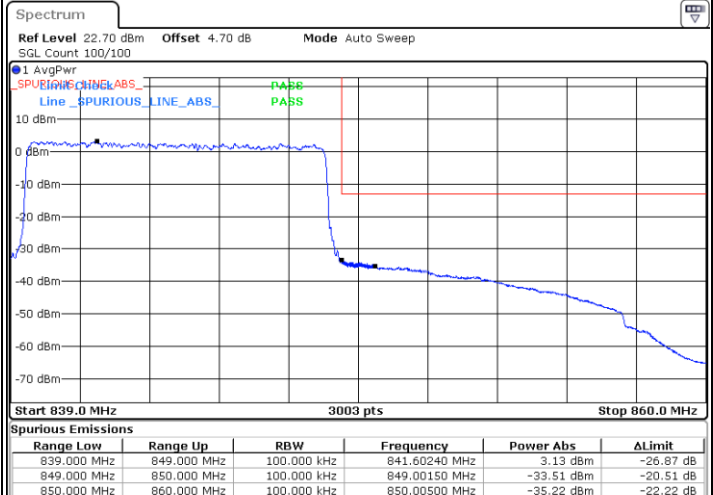
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



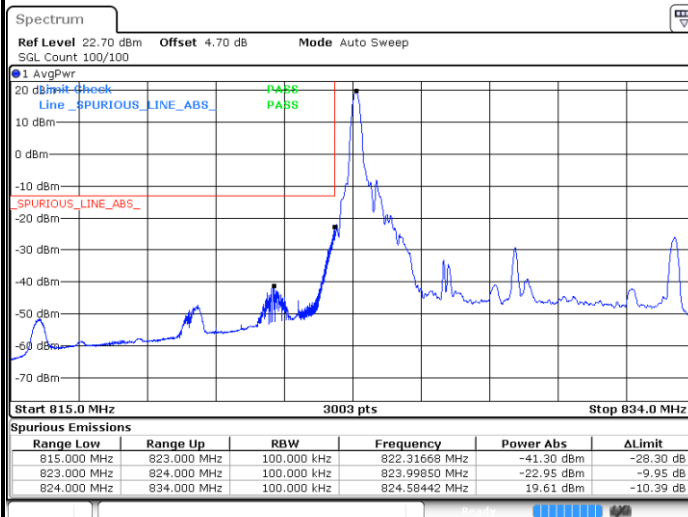
Highest Band Edge / Full RB



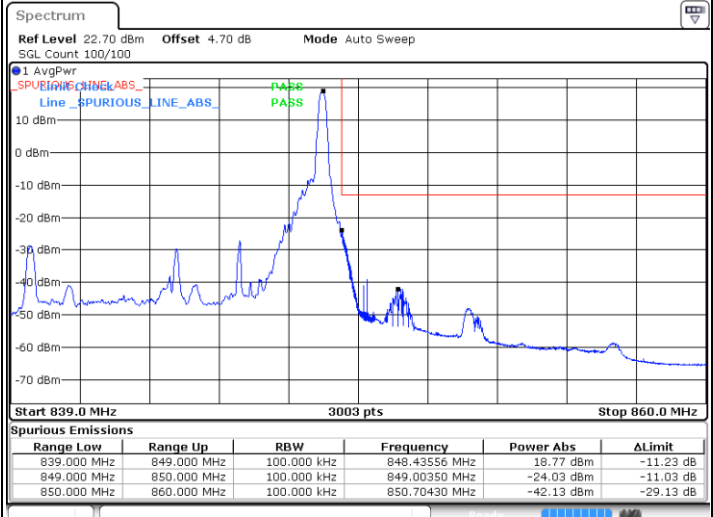


LTE Band 5 / 10MHz / 16QAM

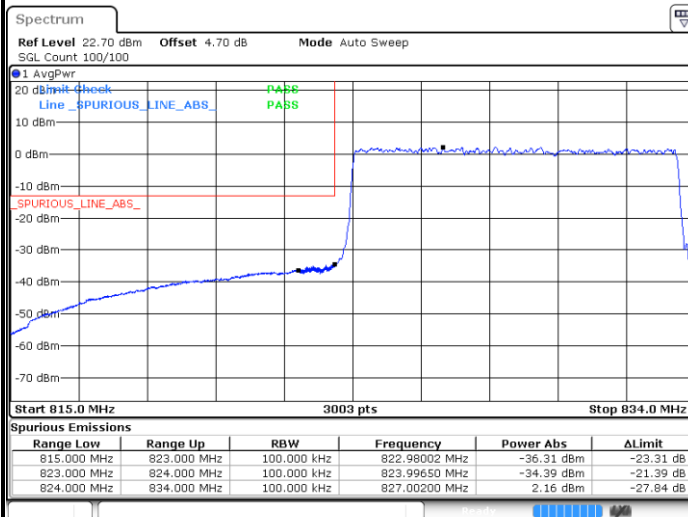
Lowest Band Edge / 1 RB



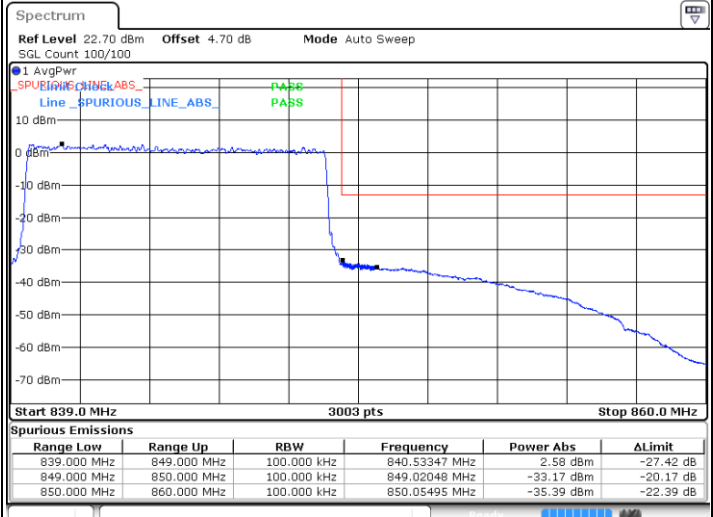
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



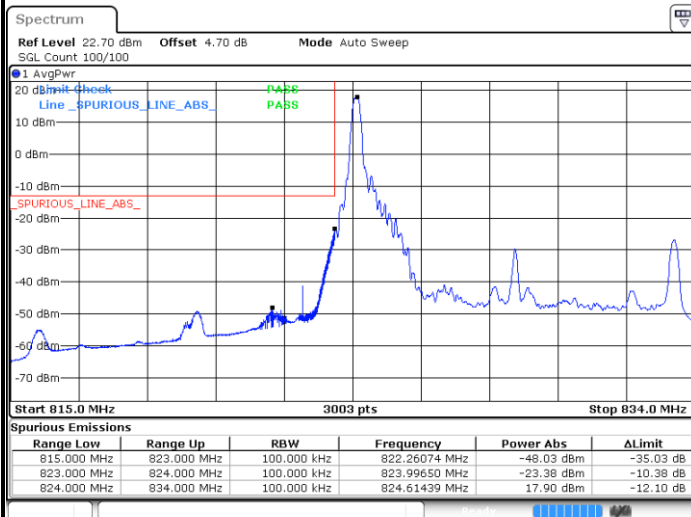
Highest Band Edge / Full RB



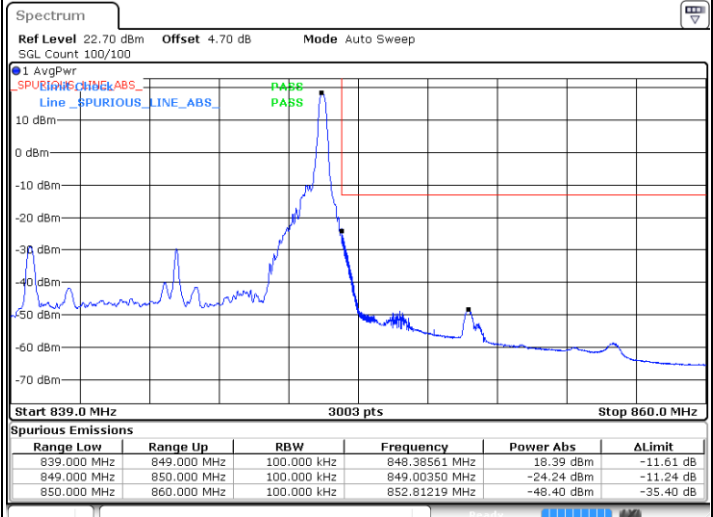


LTE Band 5 / 10MHz / 64QAM

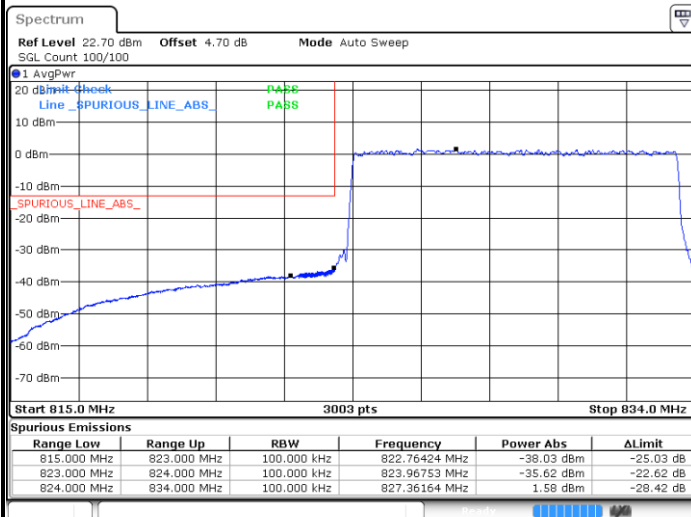
Lowest Band Edge / 1 RB



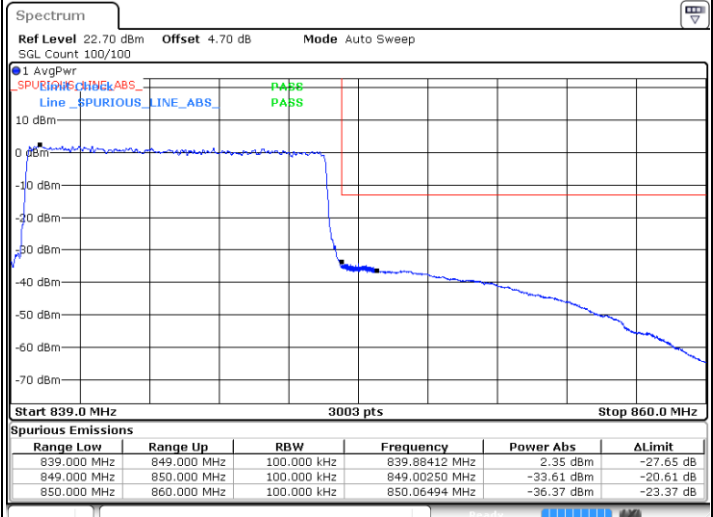
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

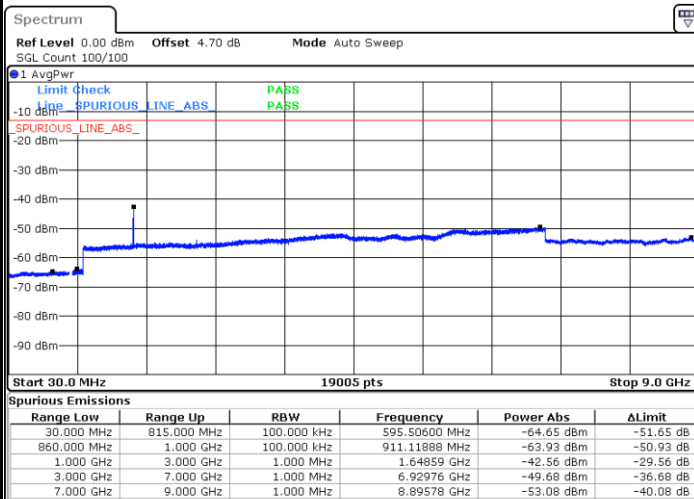




Conducted Spurious Emission

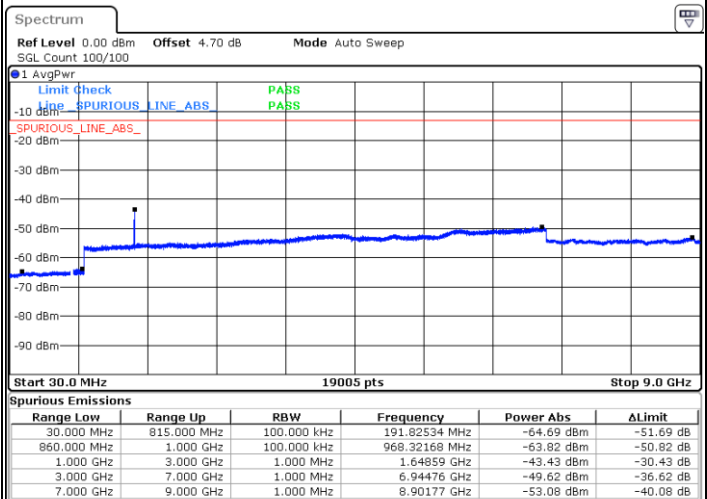
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



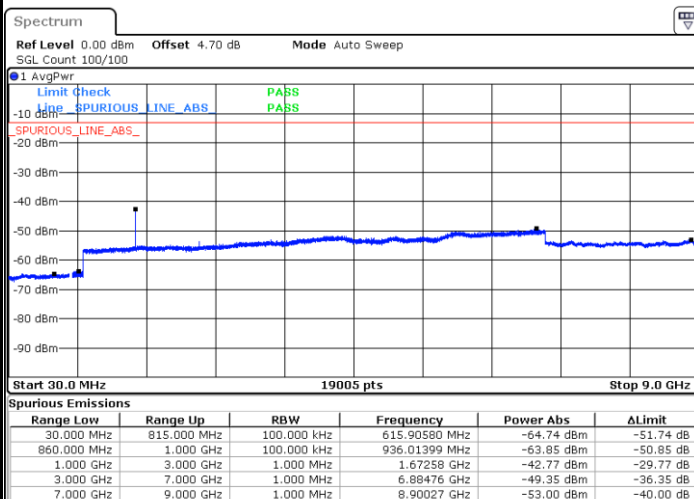
Date: 30 DEC 2019 09:54:09

Lowest Channel / 16QAM



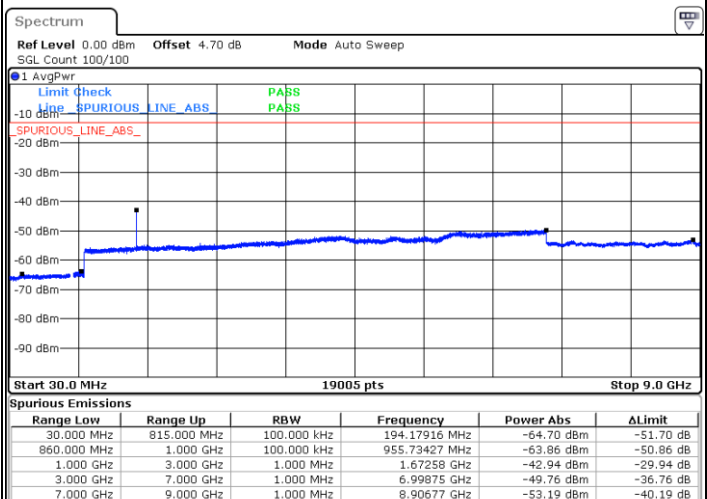
Date: 30 DEC 2019 10:05:39

Middle Channel / QPSK



Date: 30 DEC 2019 09:56:46

Middle Channel / 16QAM

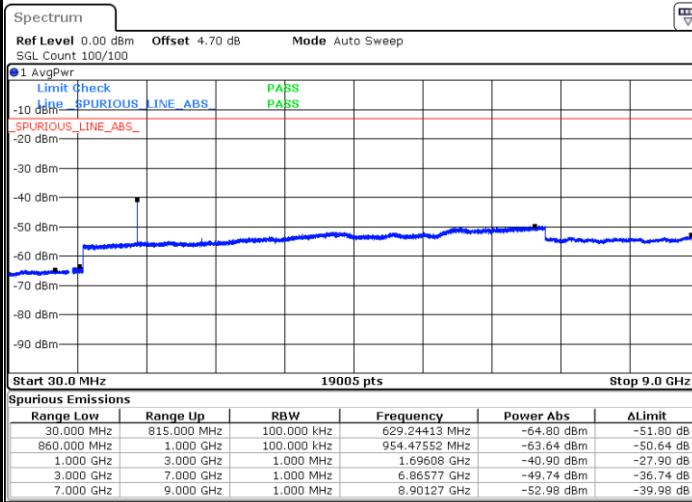


Date: 30 DEC 2019 10:07:12



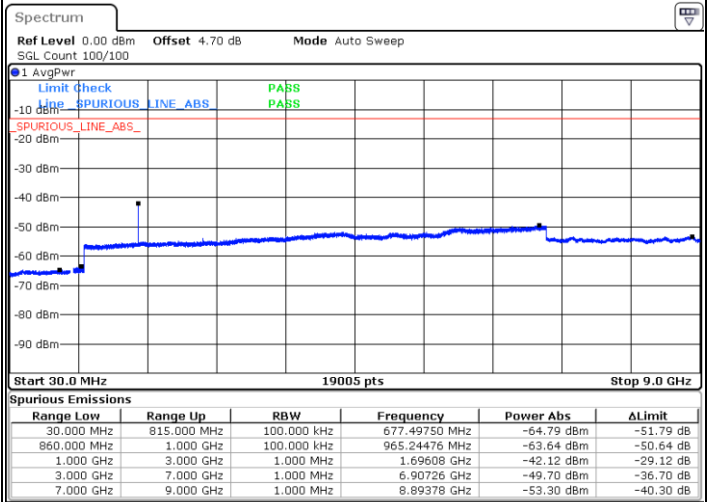
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 30 DEC 2019 10:15:20

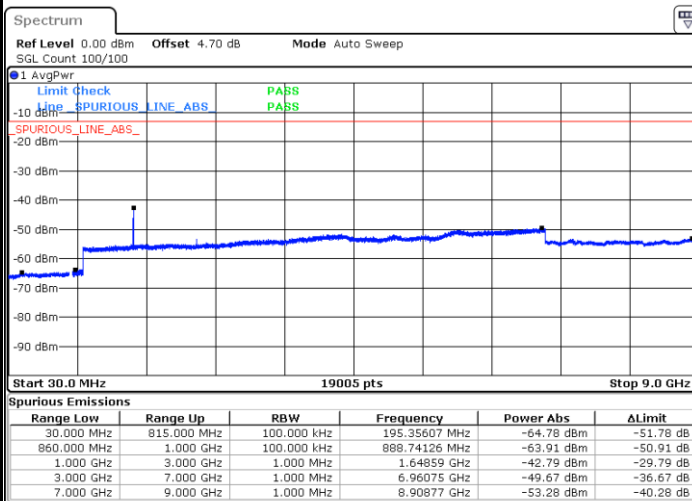
Highest Channel / 16QAM



Date: 30 DEC 2019 10:16:13

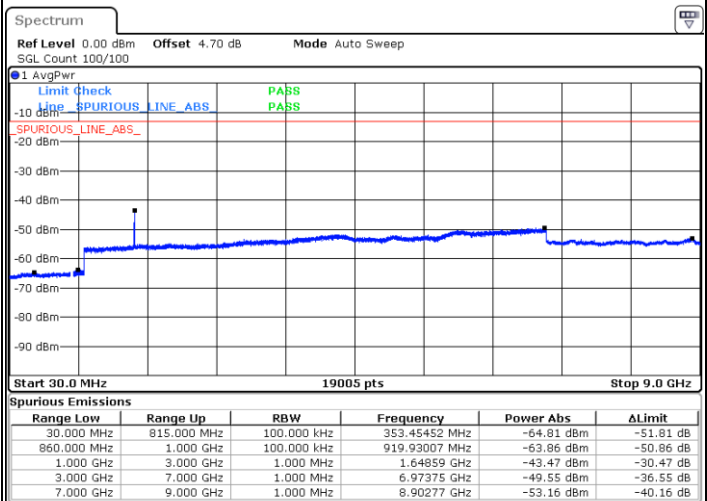
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 30 DEC 2019 10:24:20

Lowest Channel / 16QAM

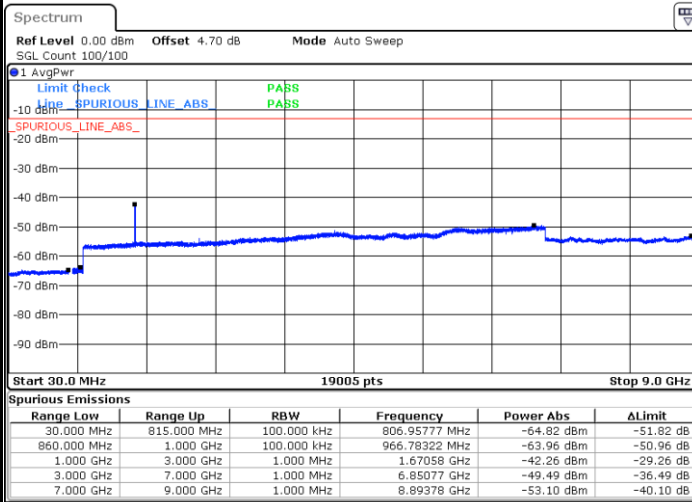


Date: 30 DEC 2019 10:25:14



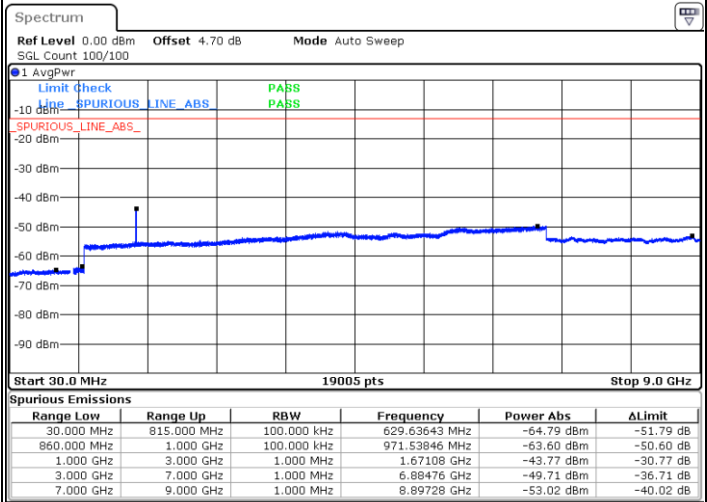
LTE Band 5 / 3MHz

Middle Channel / QPSK



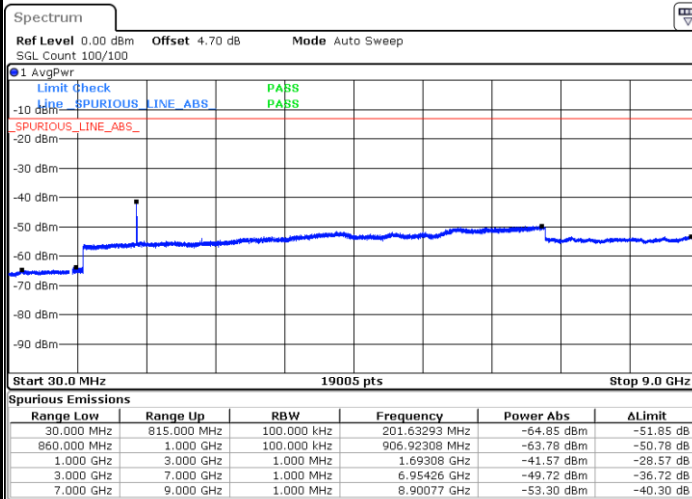
Date: 30 DEC 2019 10:26:47

Middle Channel / 16QAM



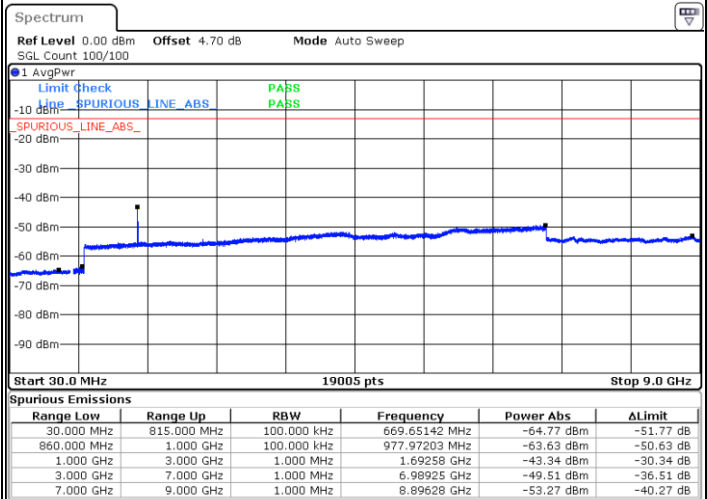
Date: 30 DEC 2019 10:27:41

Highest Channel / QPSK



Date: 30 DEC 2019 10:35:48

Highest Channel / 16QAM

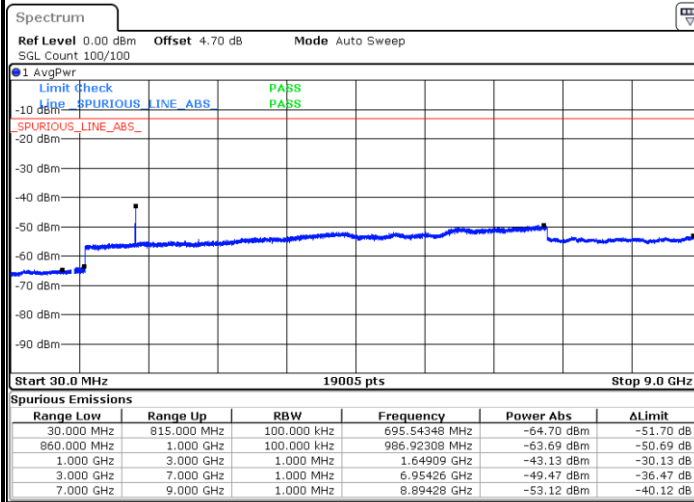


Date: 30 DEC 2019 10:36:42



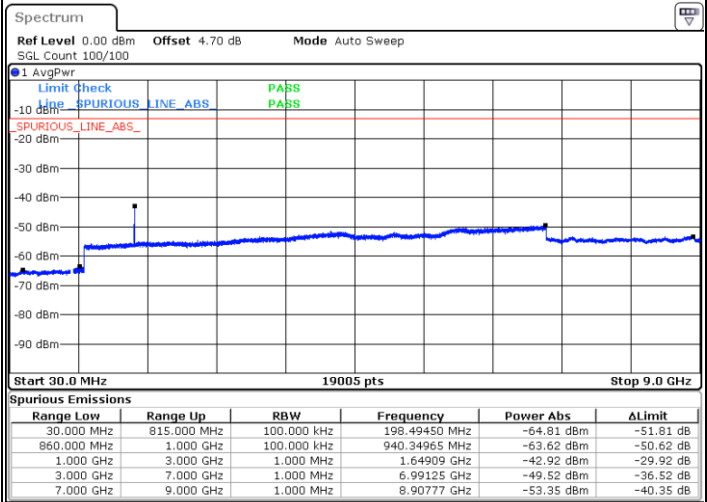
LTE Band 5 / 5MHz

Lowest Channel / QPSK



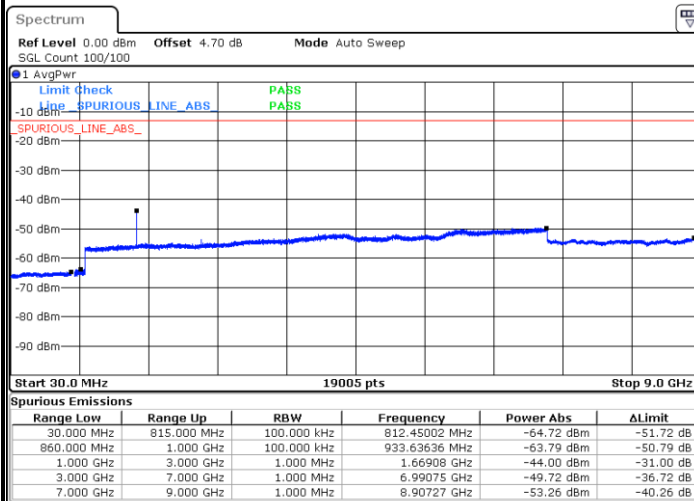
Date: 30 DEC 2019 10:44:50

Lowest Channel / 16QAM



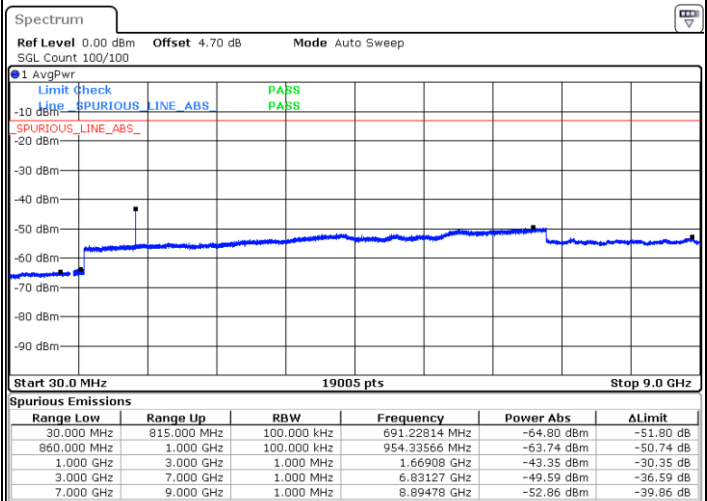
Date: 30 DEC 2019 10:45:43

Middle Channel / QPSK



Date: 30 DEC 2019 10:47:16

Middle Channel / 16QAM

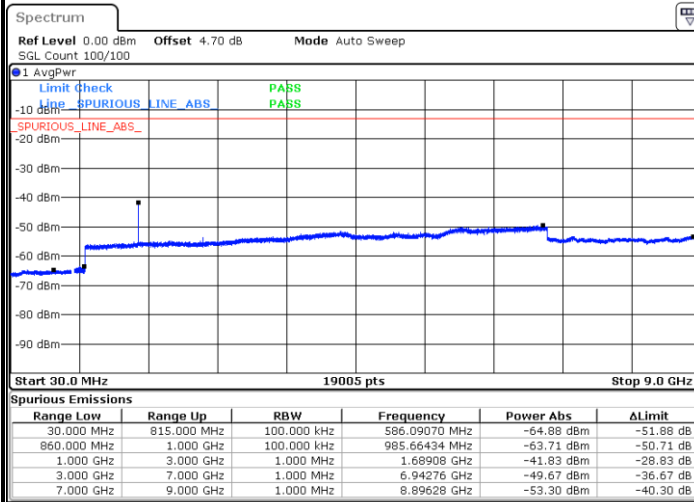


Date: 30 DEC 2019 10:48:10



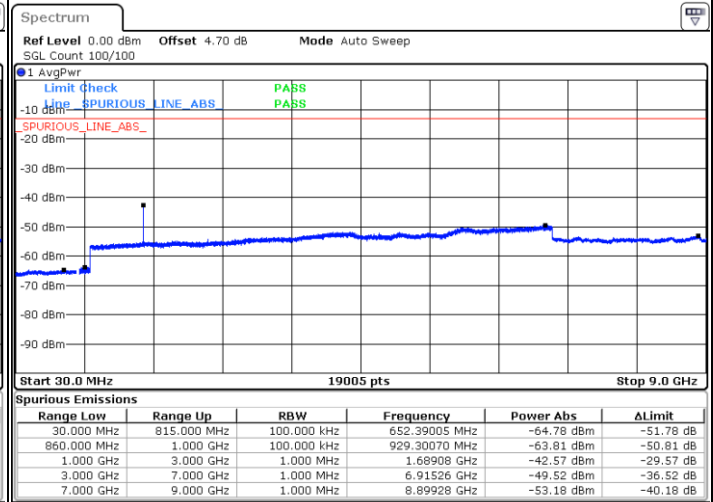
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 30 DEC 2019 10:56:17

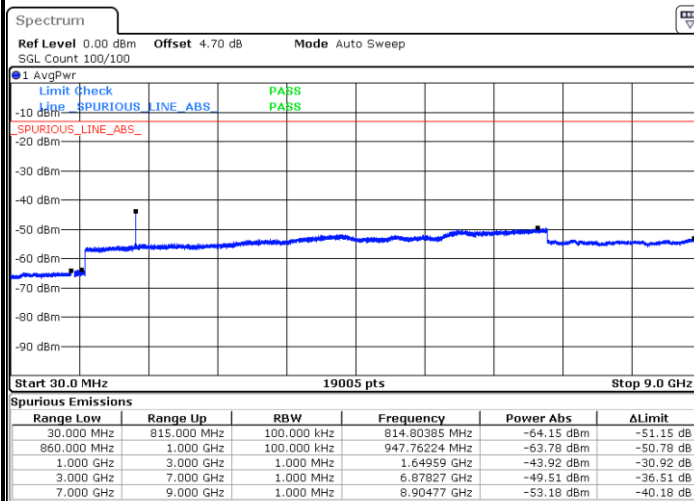
Highest Channel / 16QAM



Date: 30 DEC 2019 10:57:11

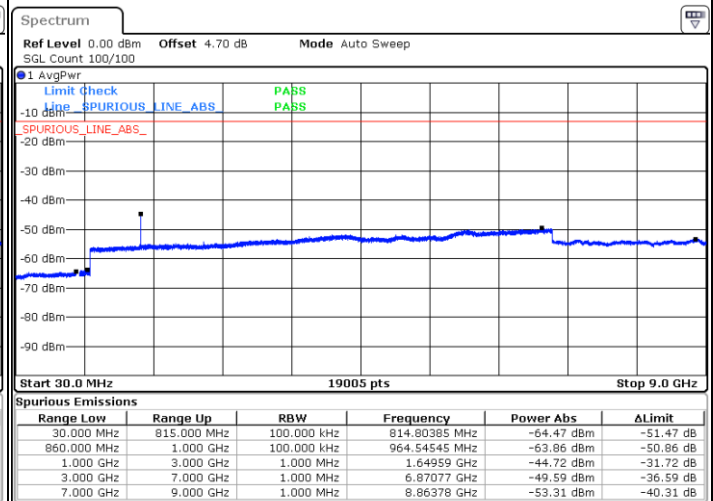
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 30 DEC 2019 11:05:18

Lowest Channel / 16QAM

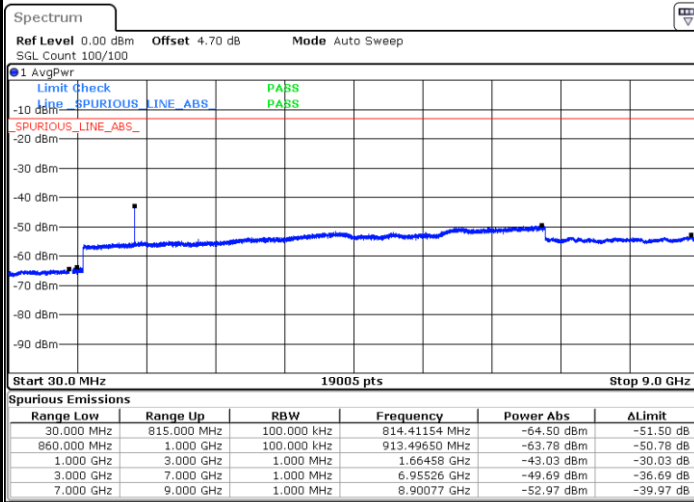


Date: 30 DEC 2019 11:06:11



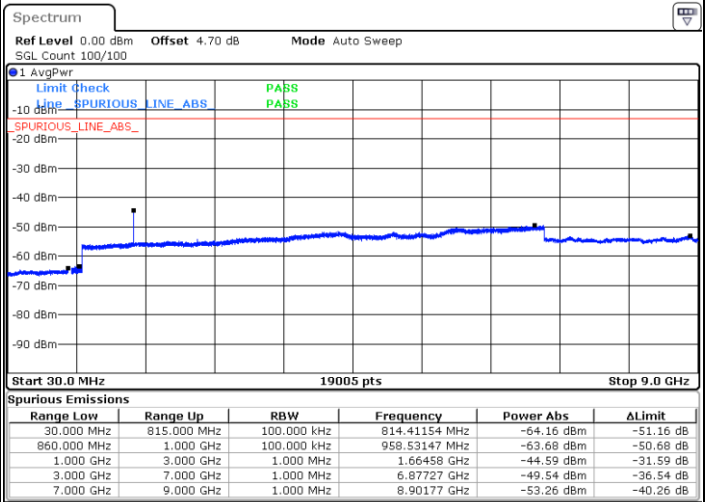
LTE Band 5 / 10MHz

Middle Channel / QPSK



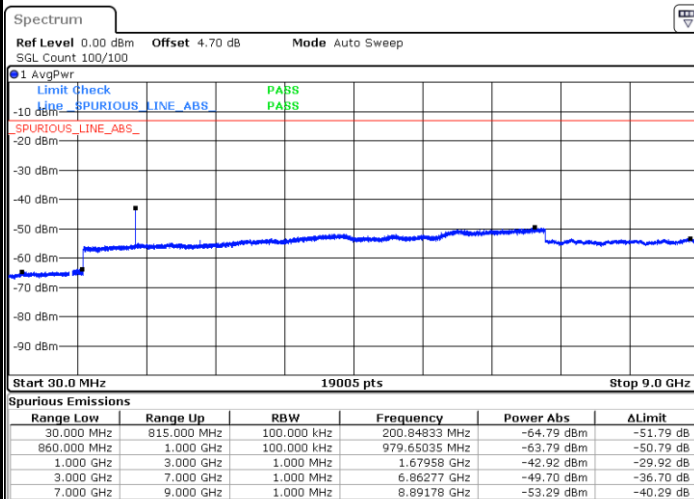
Date: 30 DEC 2019 11:07:45

Middle Channel / 16QAM



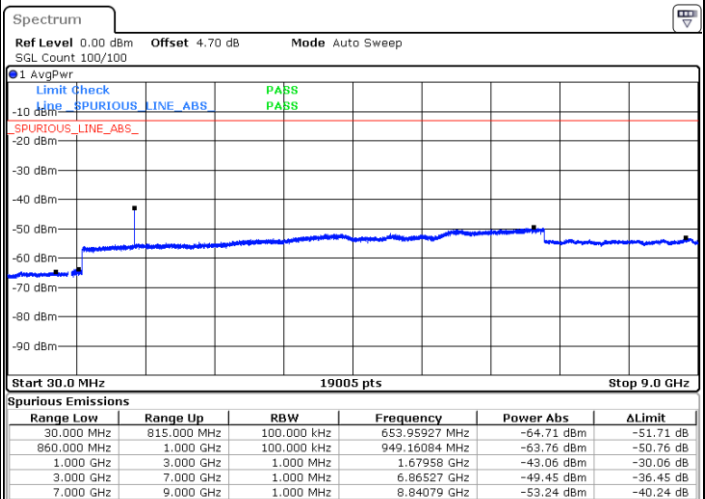
Date: 30 DEC 2019 11:08:38

Highest Channel / QPSK



Date: 30 DEC 2019 11:16:46

Highest Channel / 16QAM

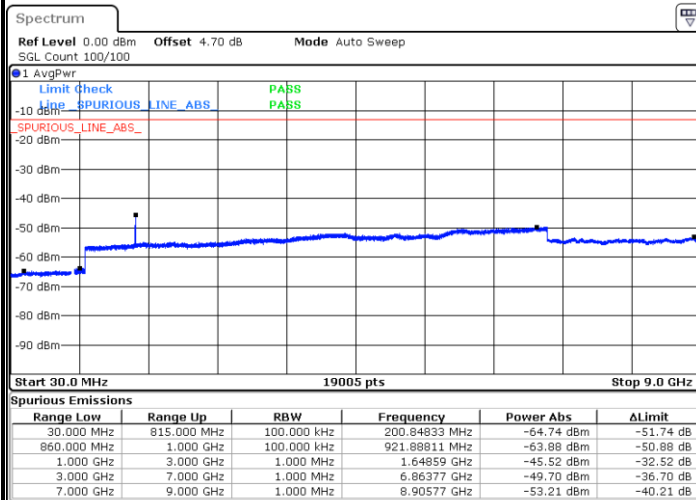


Date: 30 DEC 2019 11:17:39



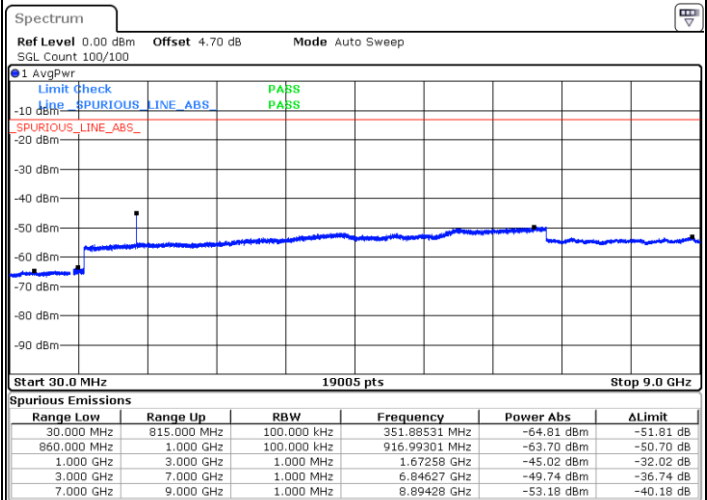
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



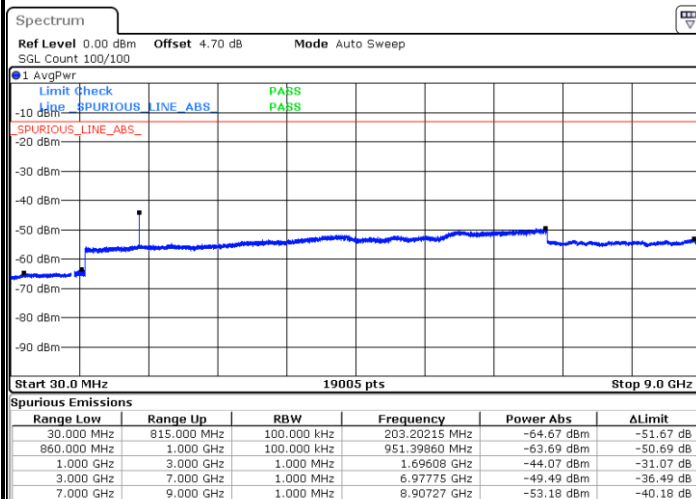
Date: 30 DEC 2019 11:23:55

Middle Channel / 64QAM



Date: 30 DEC 2019 11:24:48

Highest Channel / 64QAM

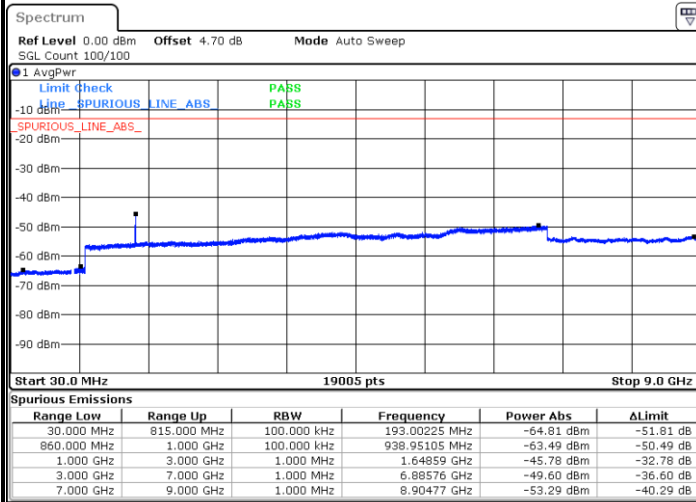


Date: 30 DEC 2019 11:29:39



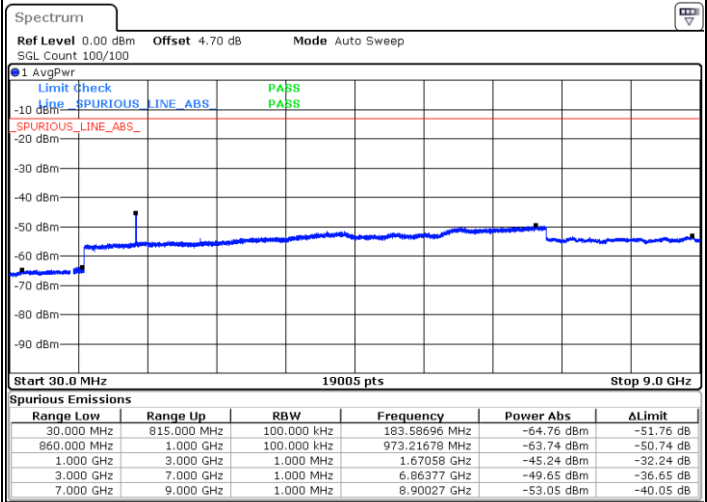
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



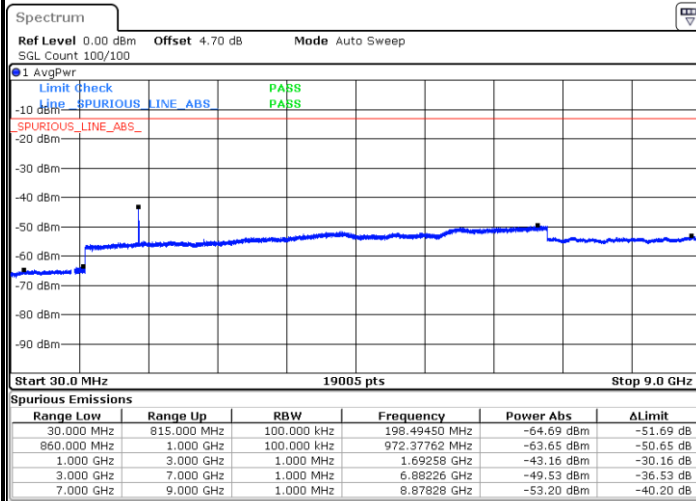
Date: 30 DEC 2019 11:34:09

Middle Channel / 64QAM



Date: 30 DEC 2019 11:35:03

Highest Channel / 64QAM

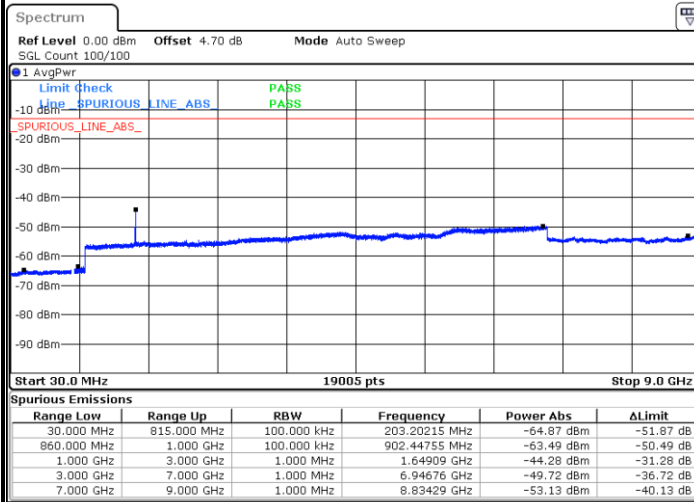


Date: 30 DEC 2019 11:39:53



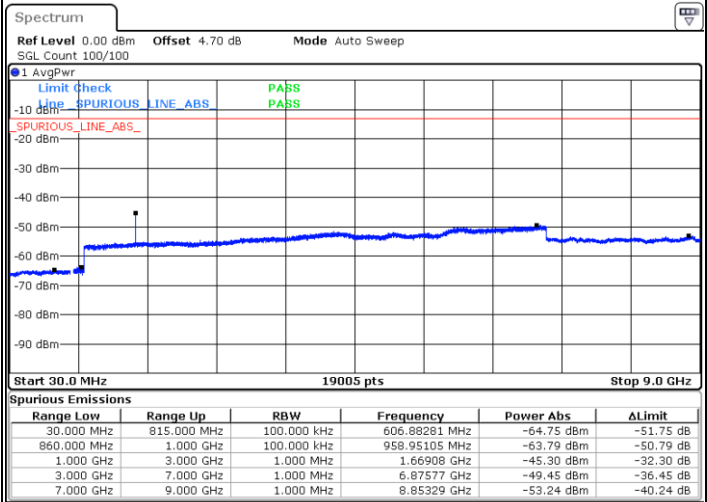
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



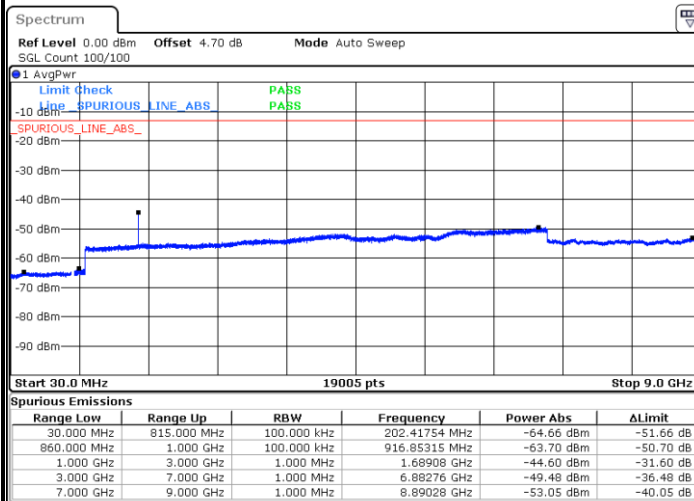
Date: 30 DEC 2019 11:44:24

Middle Channel / 64QAM



Date: 30 DEC 2019 11:45:17

Highest Channel / 64QAM

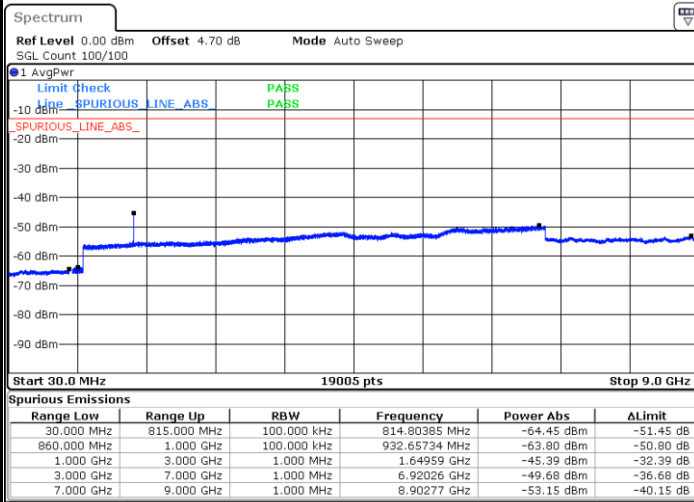


Date: 30 DEC 2019 11:50:07



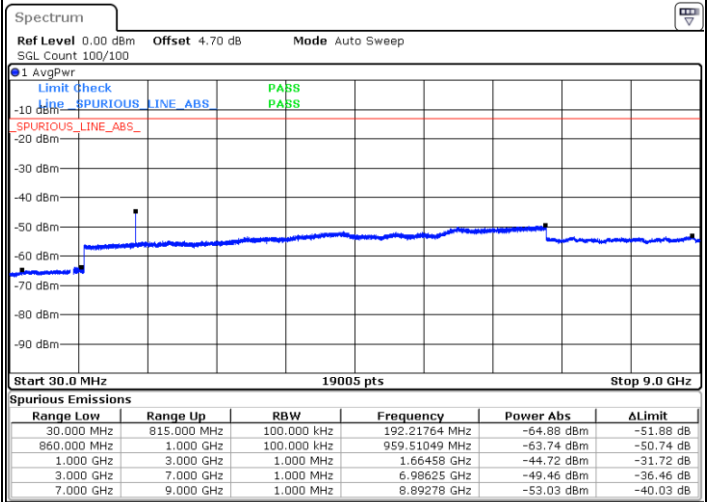
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



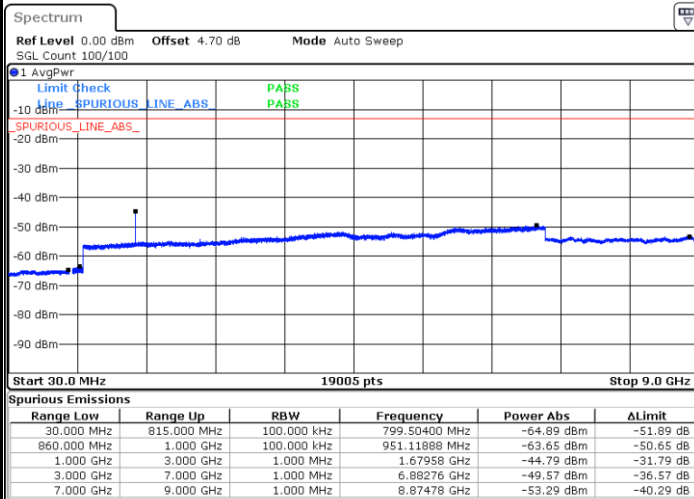
Date: 30 DEC 2019 11:54:38

Middle Channel / 64QAM



Date: 30 DEC 2019 11:55:32

Highest Channel / 64QAM



Date: 30 DEC 2019 11:59:52

**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	0.0006	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0041	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

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



LTE Band 7

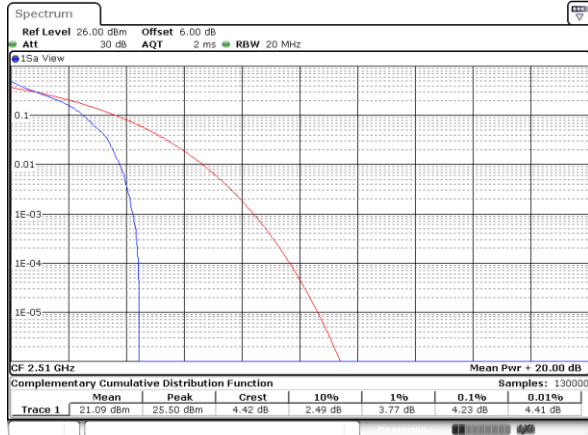
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.81	5.54	5.80	PASS
Middle CH	5.13	5.39	6.23	6.29	
Highest CH	4.70	5.30	5.45	6.26	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	6.03	6.17	PASS		
Middle CH	6.58	6.52			
Highest CH	6.32	6.46			

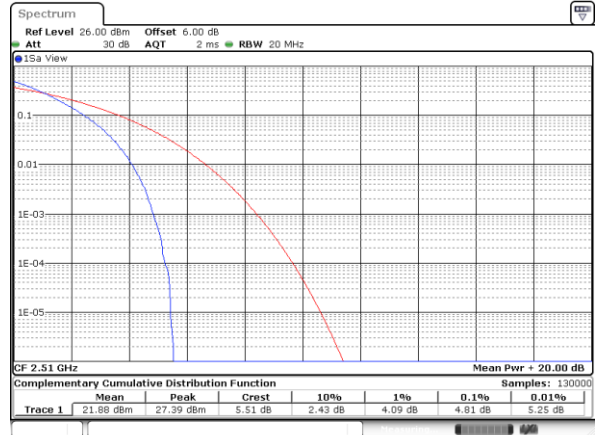


LTE Band 7 / 20MHz / QPSK

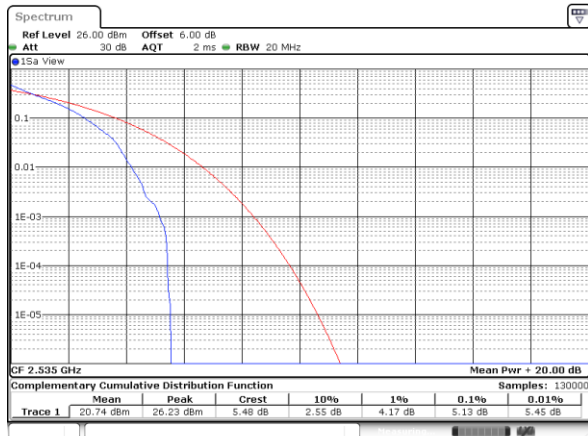
Lowest Channel / 1RB



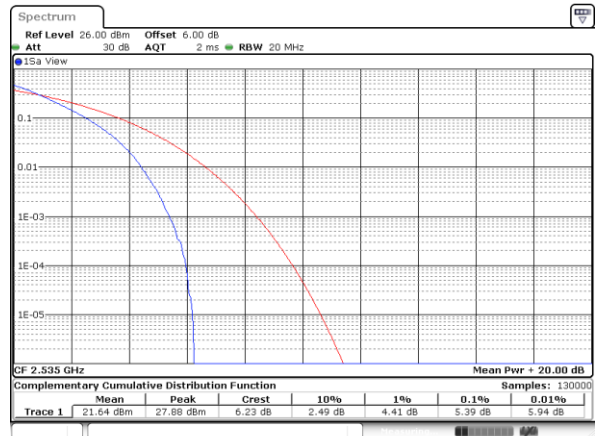
Lowest Channel / Full RB



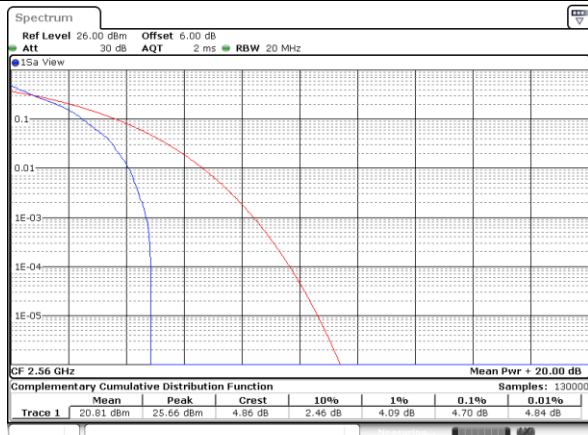
Middle Channel / 1RB



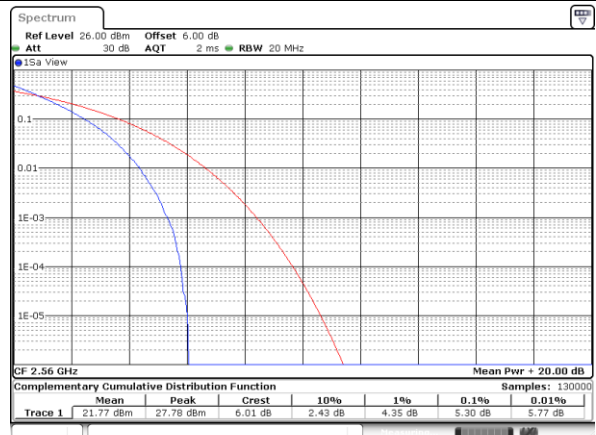
Middle Channel / Full RB

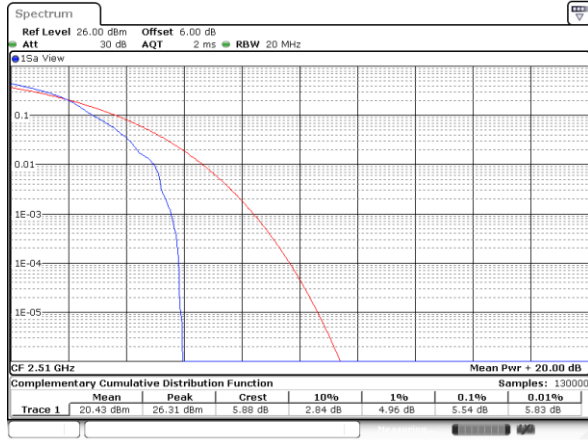


Highest Channel / 1RB

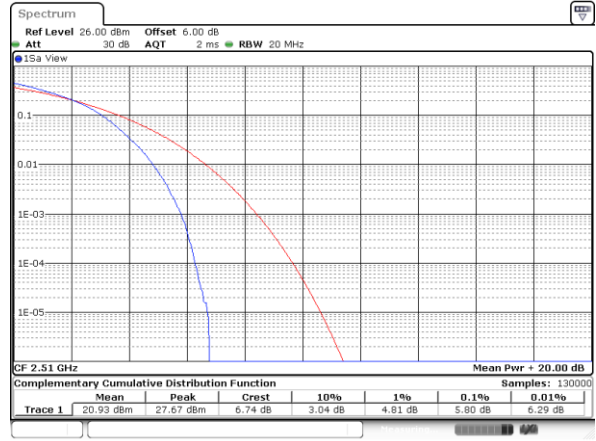


Highest Channel / Full RB

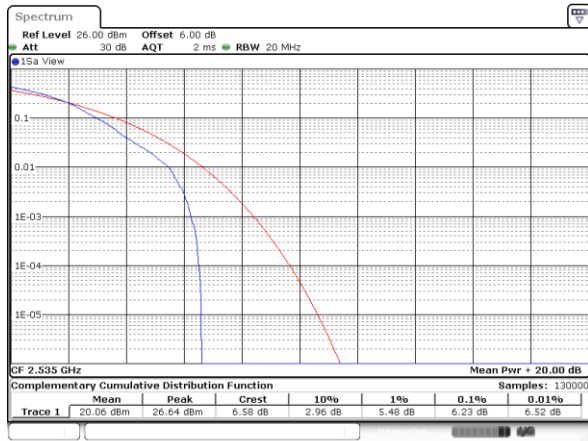


LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB


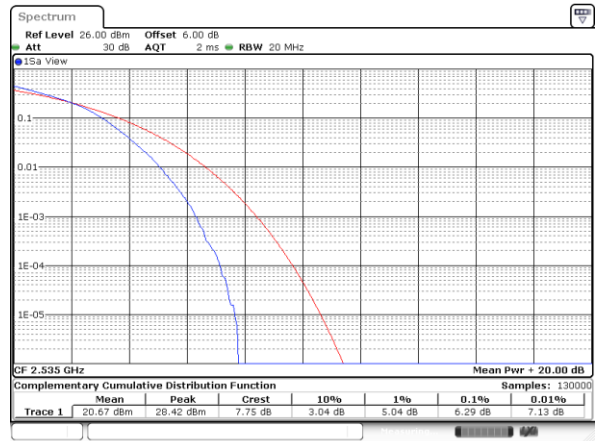
Date: 30 DEC 2019 14:47:09

Lowest Channel / Full RB


Date: 30 DEC 2019 14:47:36

Middle Channel / 1RB


Date: 30 DEC 2019 14:48:12

Middle Channel / Full RB


Date: 30 DEC 2019 14:47:45

Highest Channel / 1RB


Date: 30 DEC 2019 14:48:21

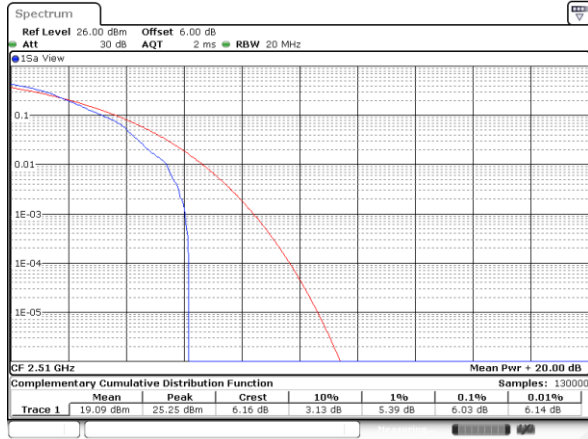
Highest Channel / Full RB


Date: 30 DEC 2019 14:48:56

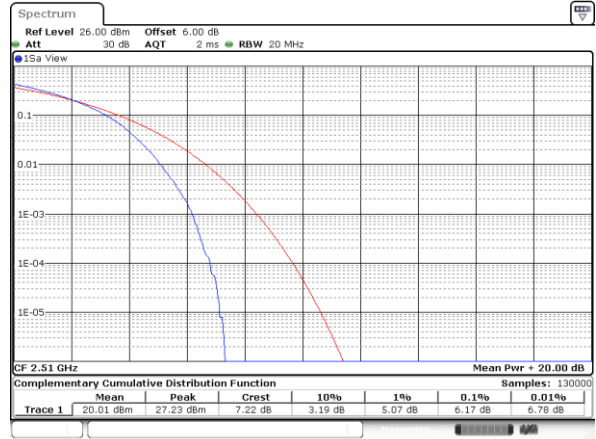


LTE Band 7 / 20MHz / 64QAM

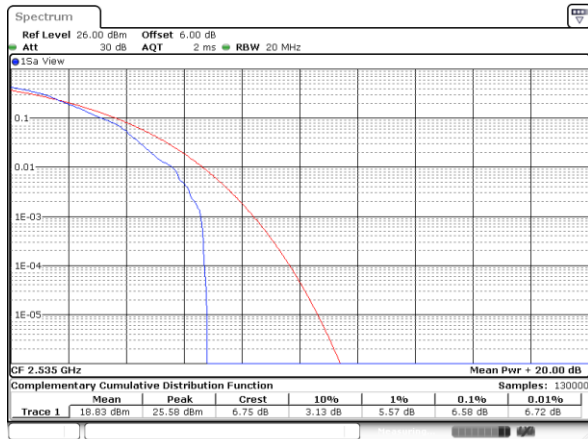
Lowest Channel / 1RB



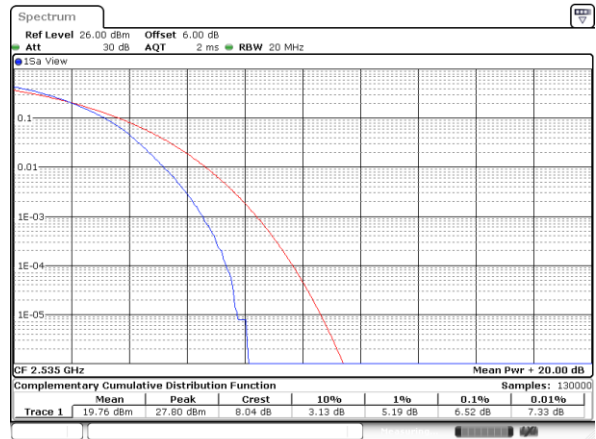
Lowest Channel / Full RB



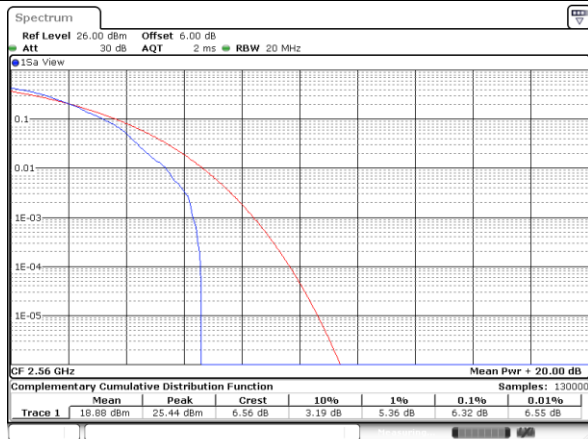
Middle Channel / 1RB



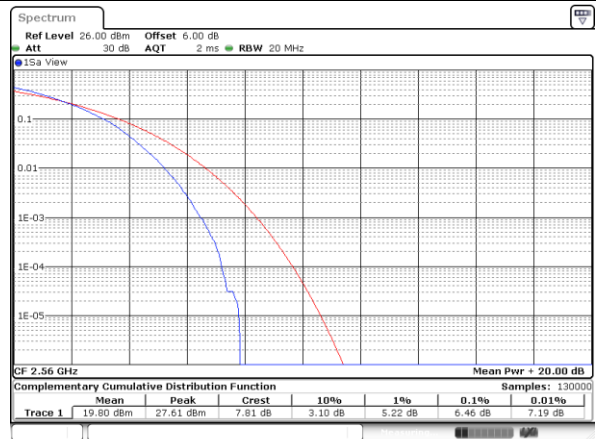
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





26dB Bandwidth

Mode												
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.845	4.885	9.81	9.67	14.236	14.266	20.1	19.98	4.865	9.83	14.416	20.18
Middle CH	4.845	4.825	9.65	9.73	14.356	14.206	20.22	20.1	4.815	9.73	14.296	20.1
Highest CH	4.815	4.845	9.67	9.85	14.416	14.446	20.22	20.14	4.855	9.77	14.236	20.1