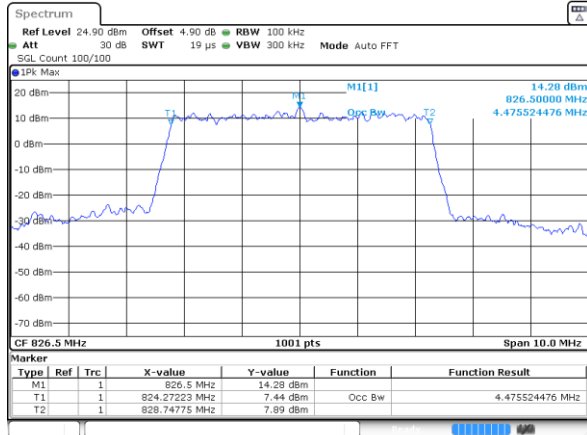


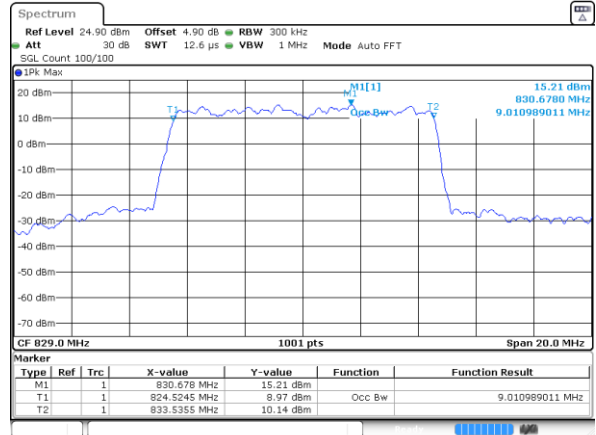


LTE Band 5

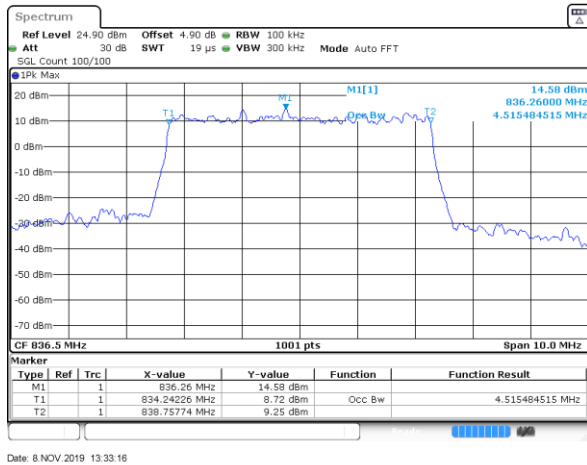
Lowest Channel / 5MHz / 64QAM



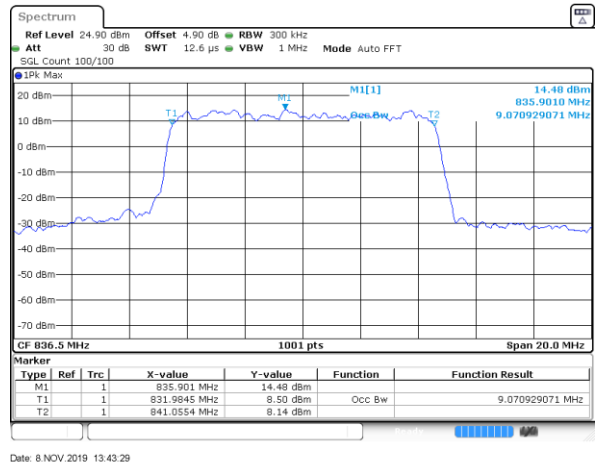
Lowest Channel / 10MHz / 64QAM



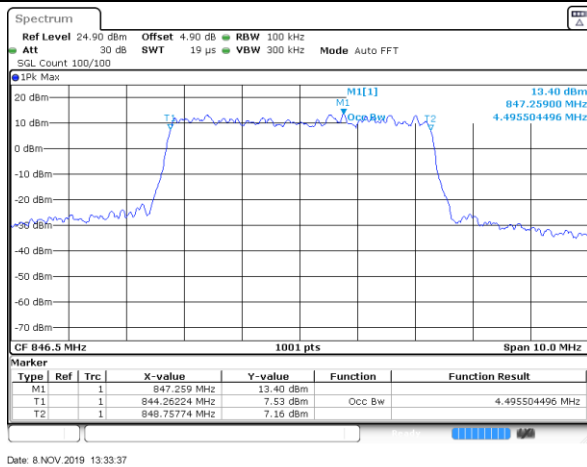
Middle Channel / 5MHz / 64QAM



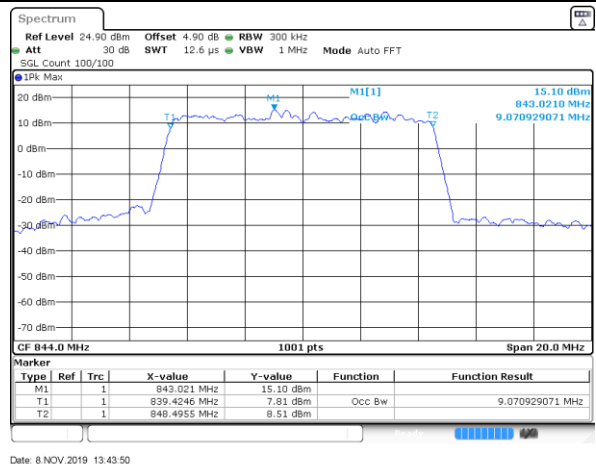
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

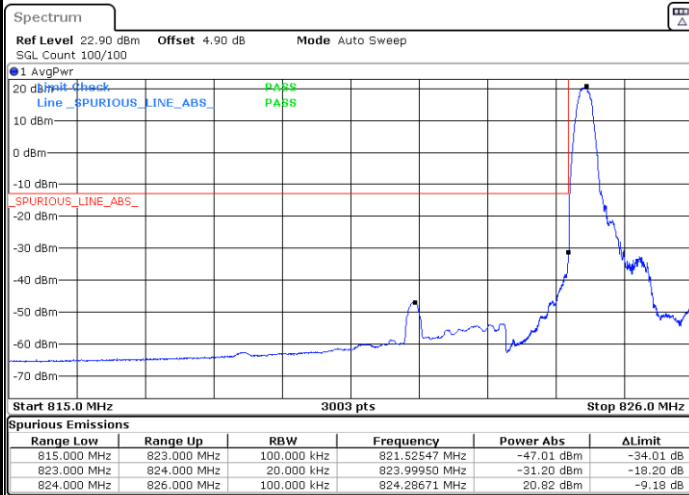




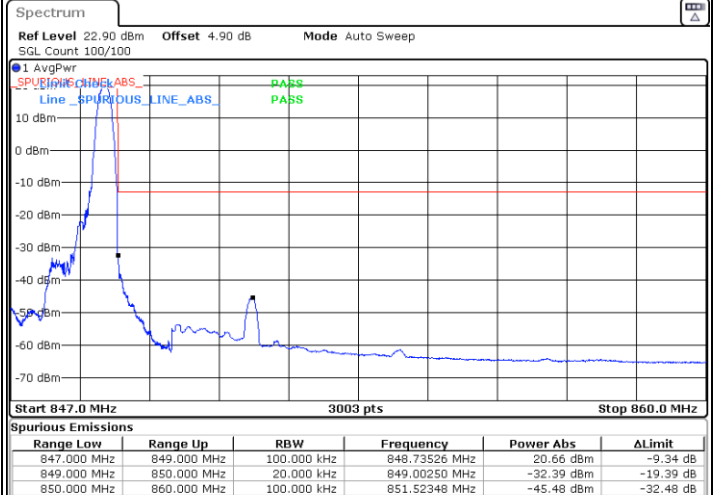
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

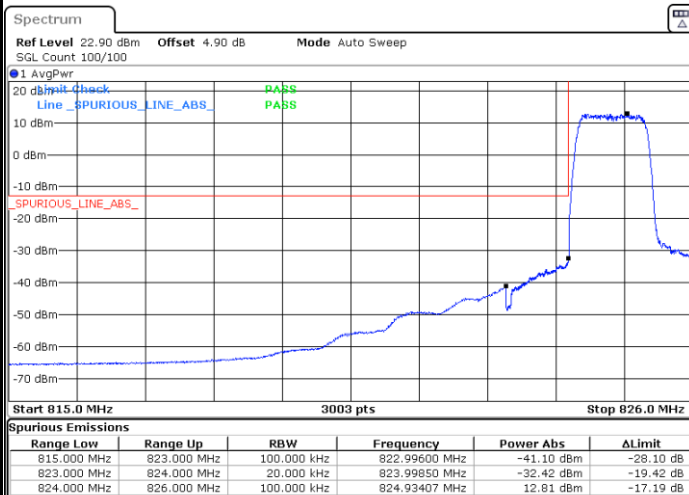
Lowest Band Edge / 1RB



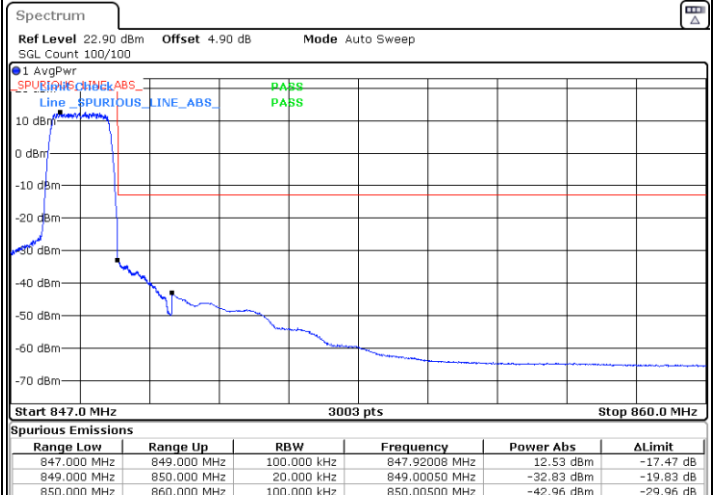
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



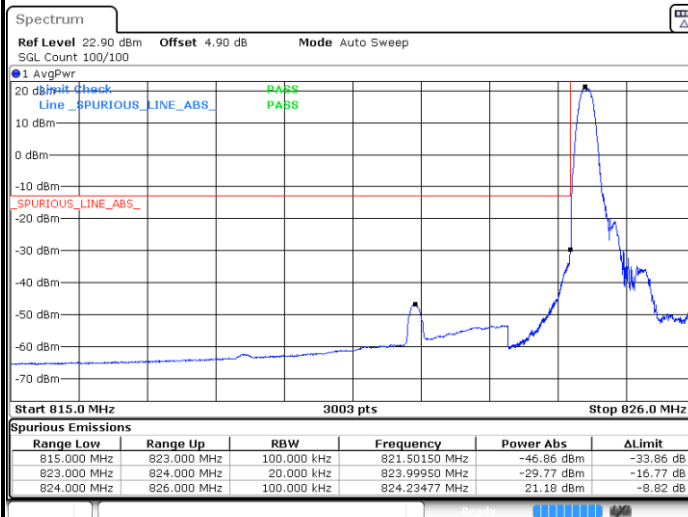
Highest Band Edge / Full RB



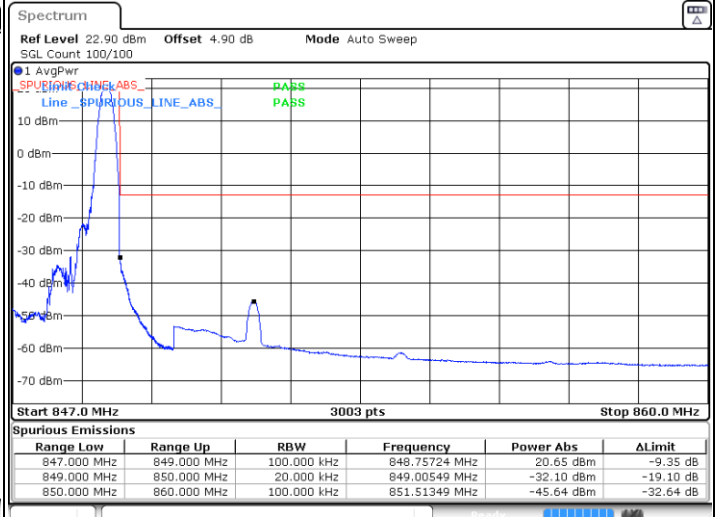


LTE Band 5 / 1.4MHz / 16QAM

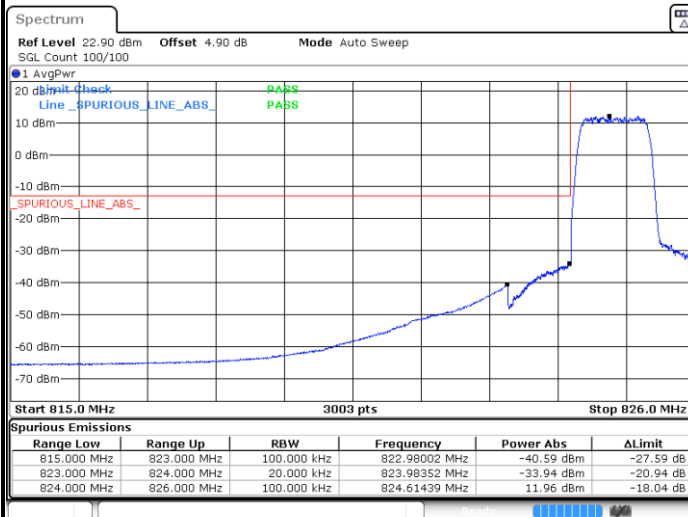
Lowest Band Edge / 1 RB



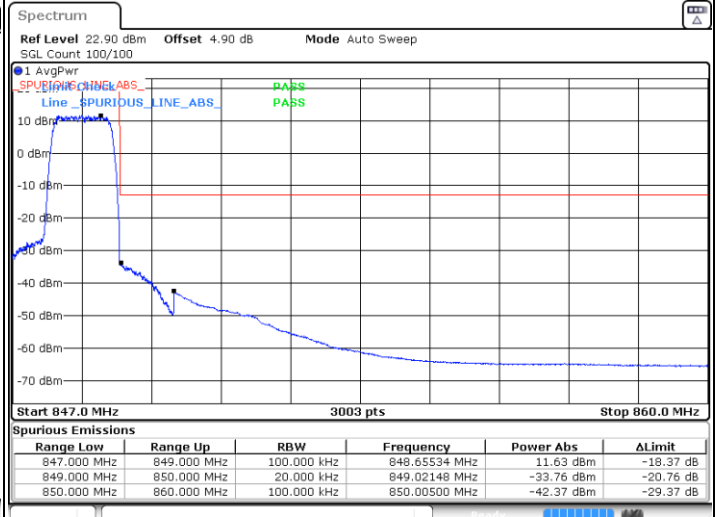
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



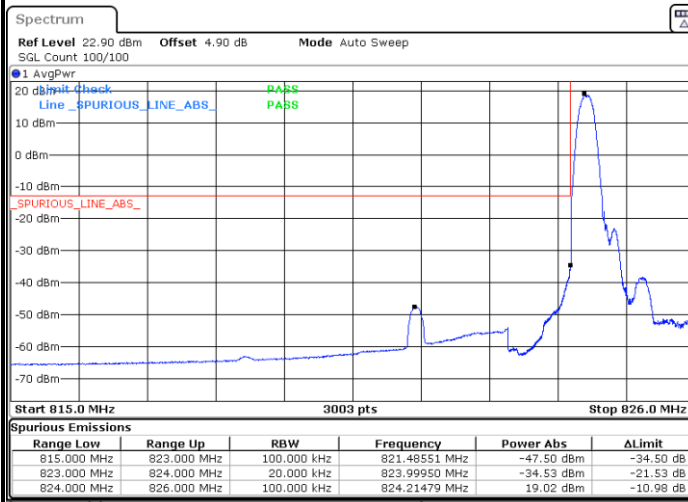
Highest Band Edge / Full RB



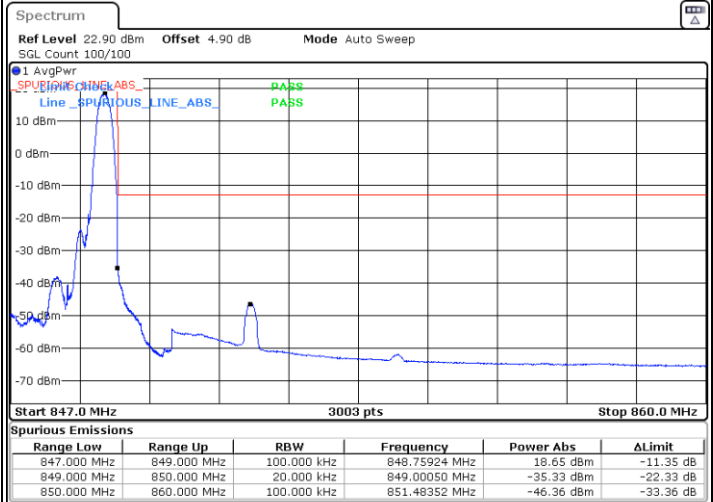


LTE Band 5 / 1.4MHz / 64QAM

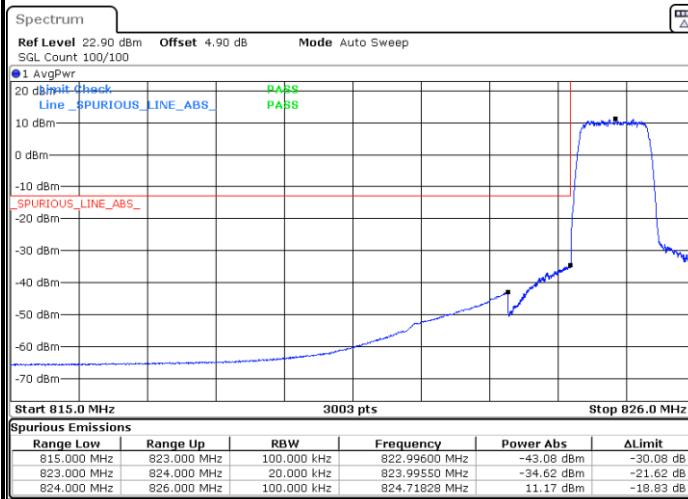
Lowest Band Edge / 1 RB



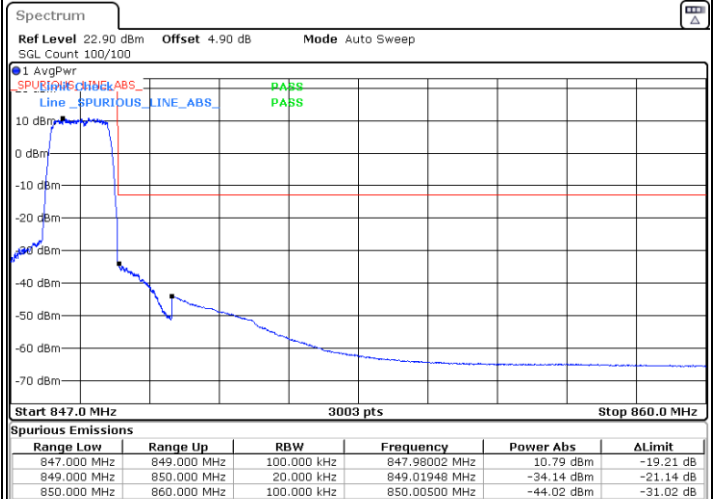
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



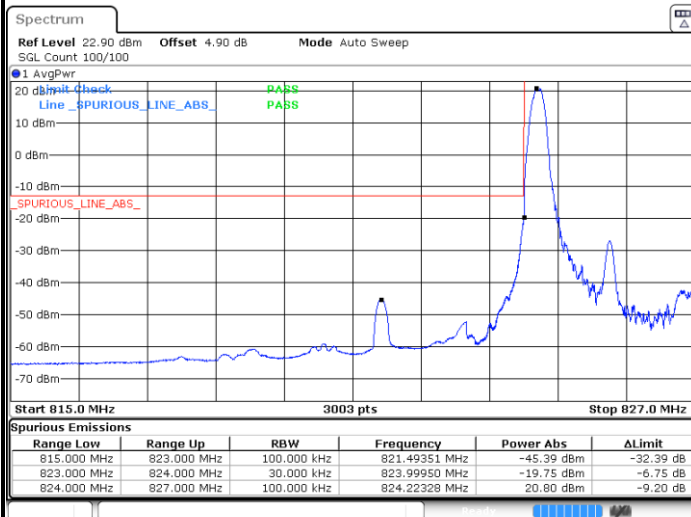
Highest Band Edge / Full RB



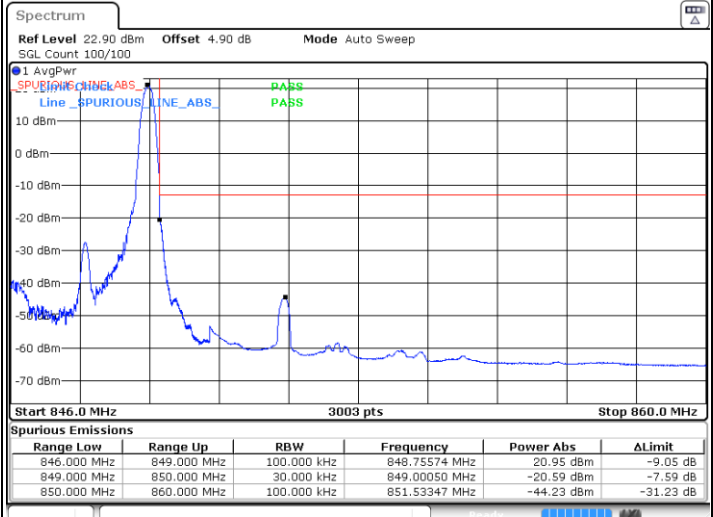


LTE Band 5 / 3MHz / QPSK

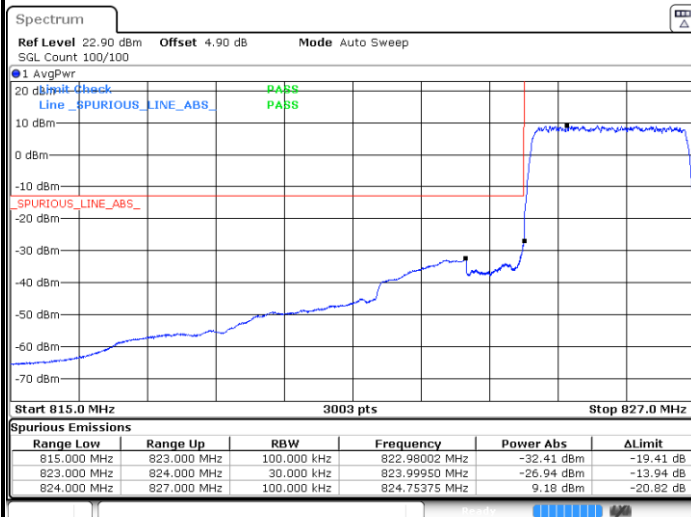
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



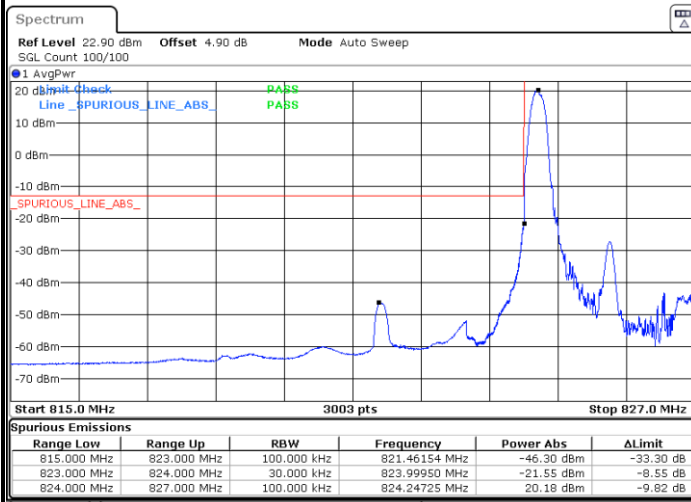
Highest Band Edge / Full RB



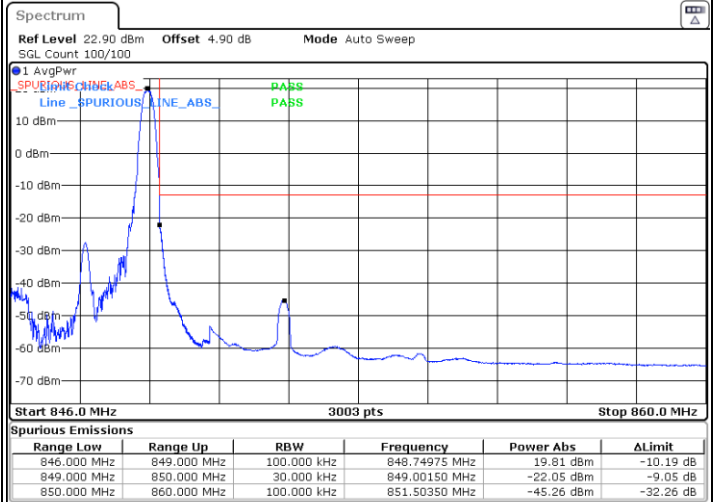


LTE Band 5 / 3MHz / 16QAM

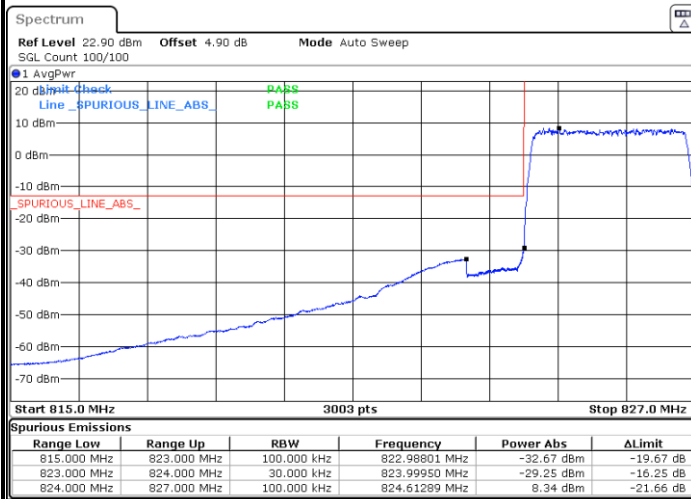
Lowest Band Edge / 1 RB



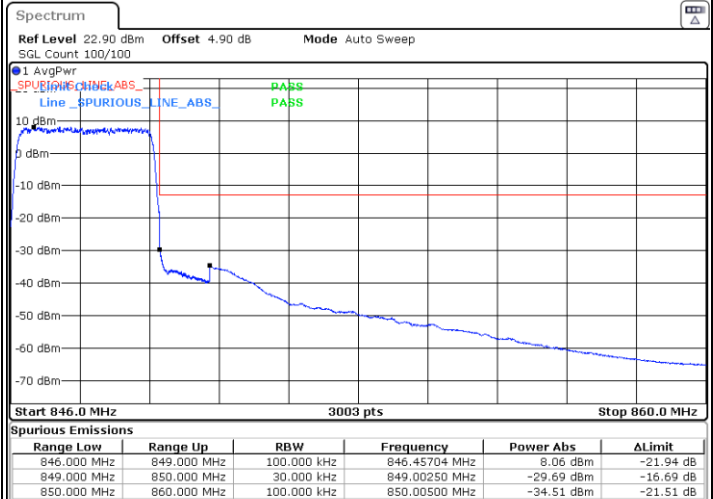
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



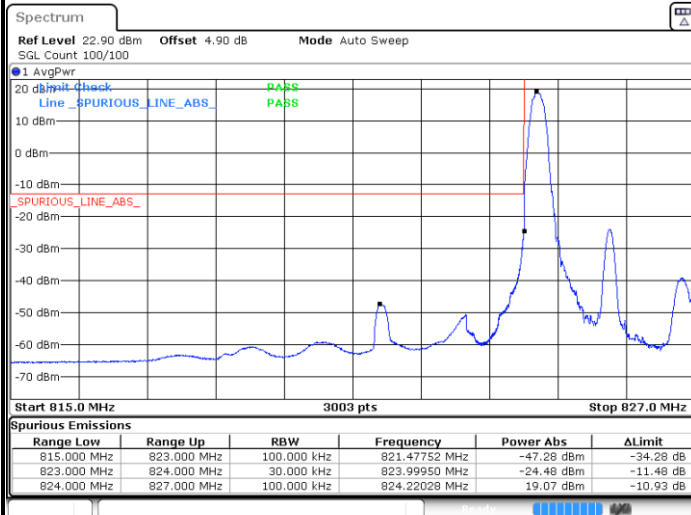
Highest Band Edge / Full RB



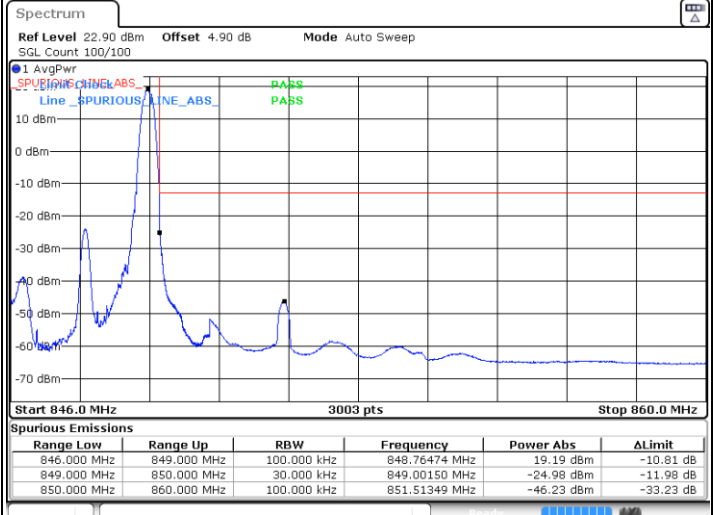


LTE Band 5 / 3MHz / 64QAM

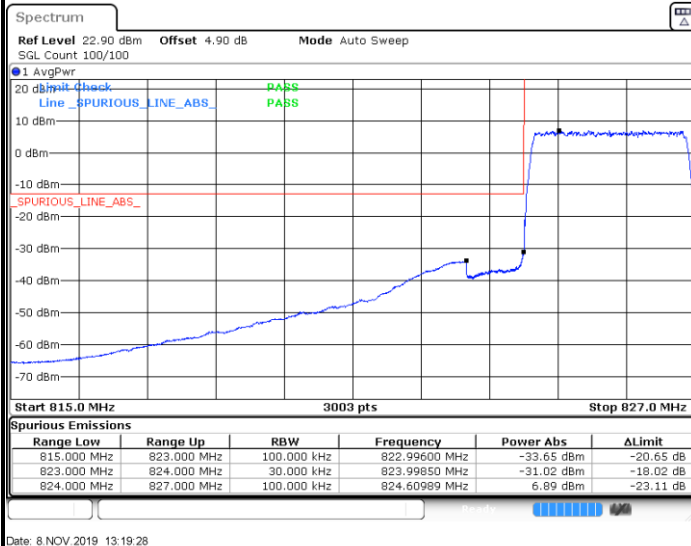
Lowest Band Edge / 1 RB



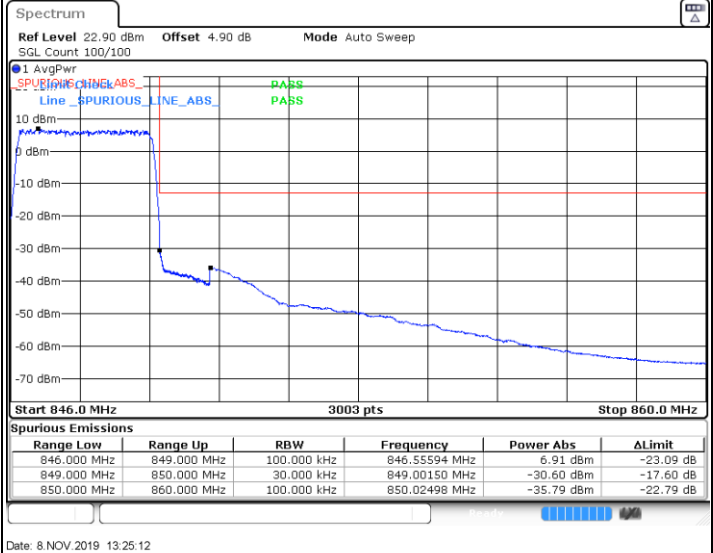
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



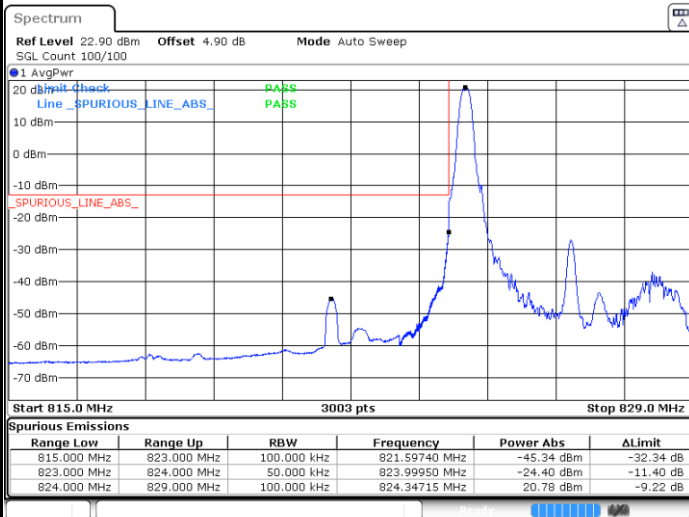
Highest Band Edge / Full RB



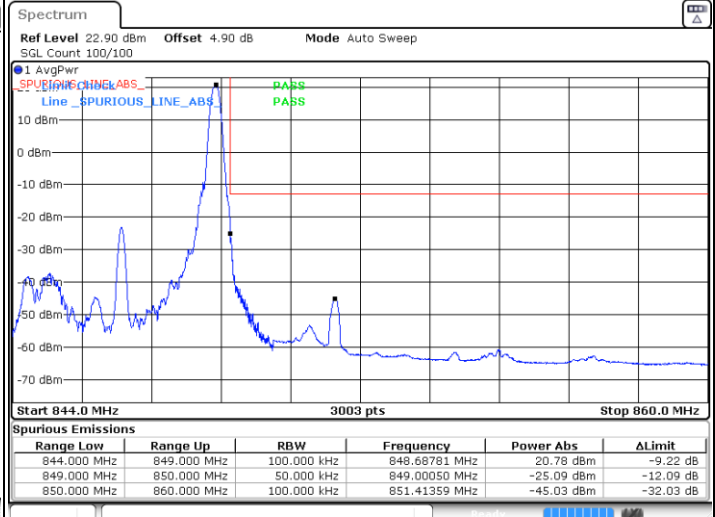


LTE Band 5 / 5MHz / QPSK

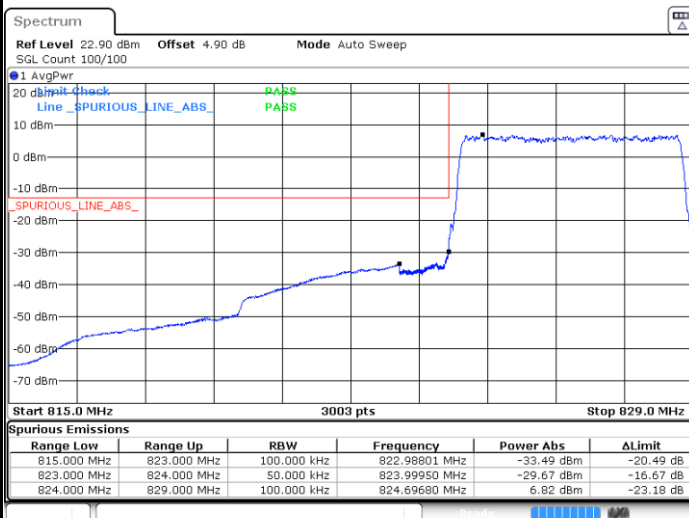
Lowest Band Edge / 1 RB



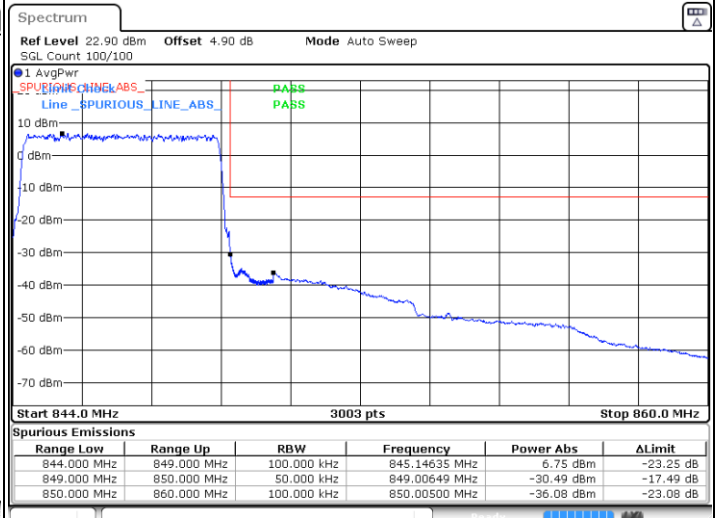
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



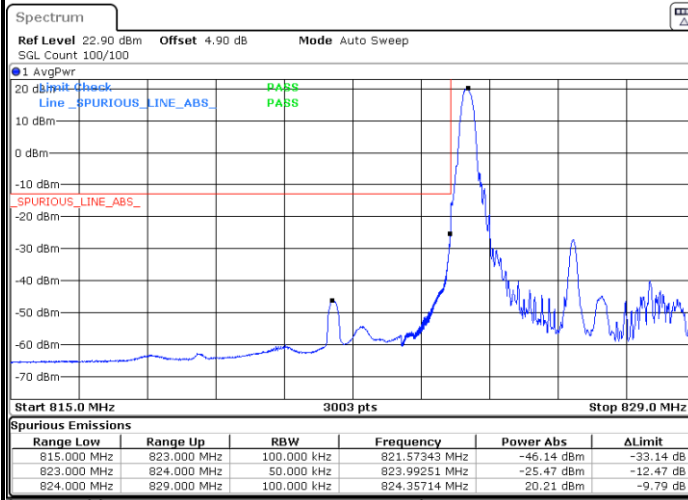
Highest Band Edge / Full RB



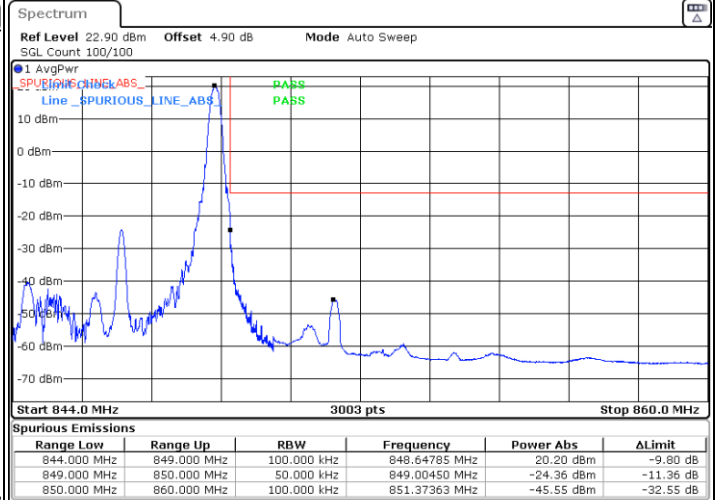


LTE Band 5 / 5MHz / 16QAM

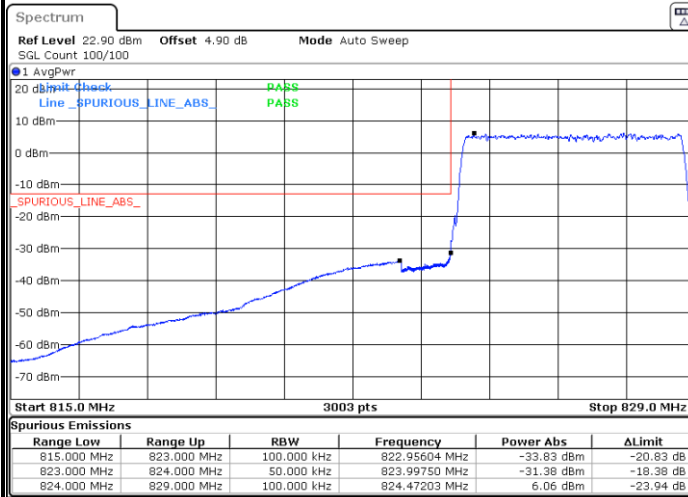
Lowest Band Edge / 1RB



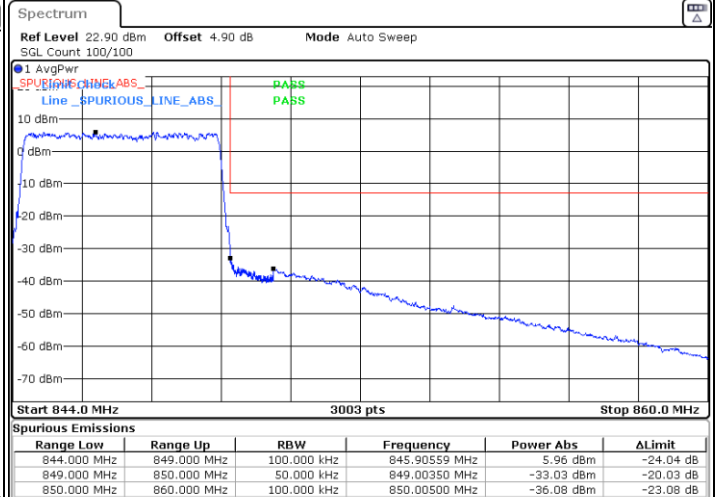
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



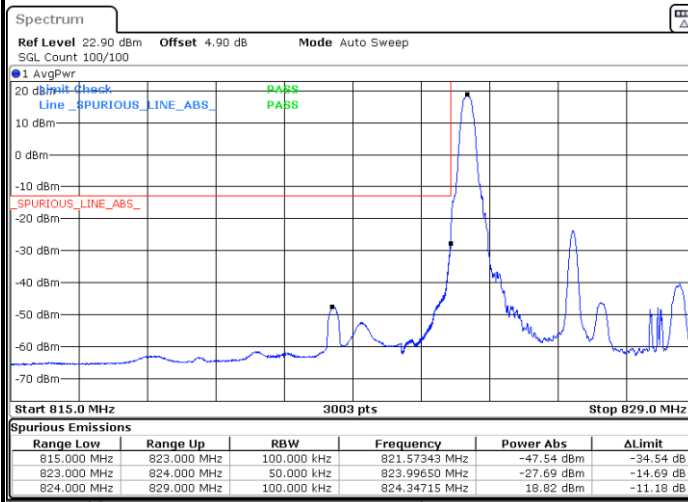
Highest Band Edge / Full RB





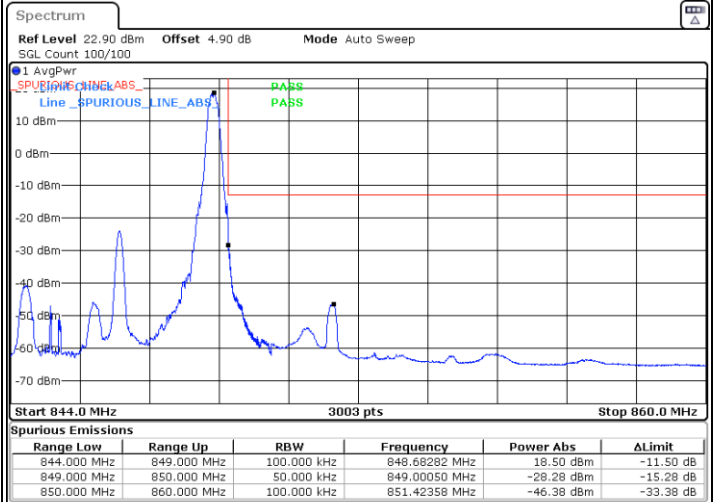
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



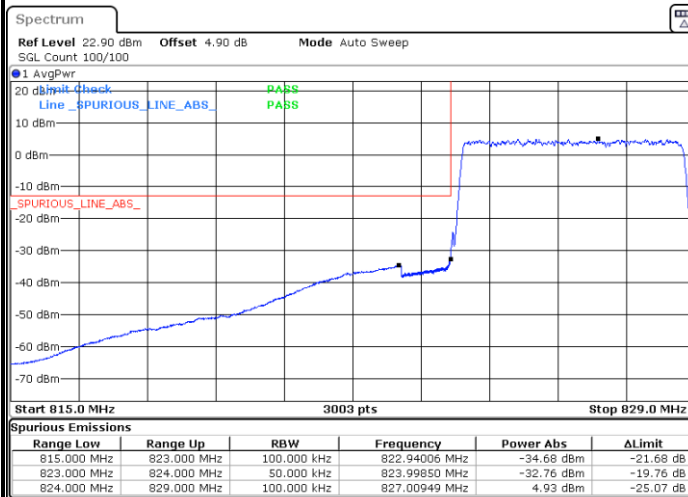
Date: 8 NOV 2019 13:31:19

Highest Band Edge / 1 RB



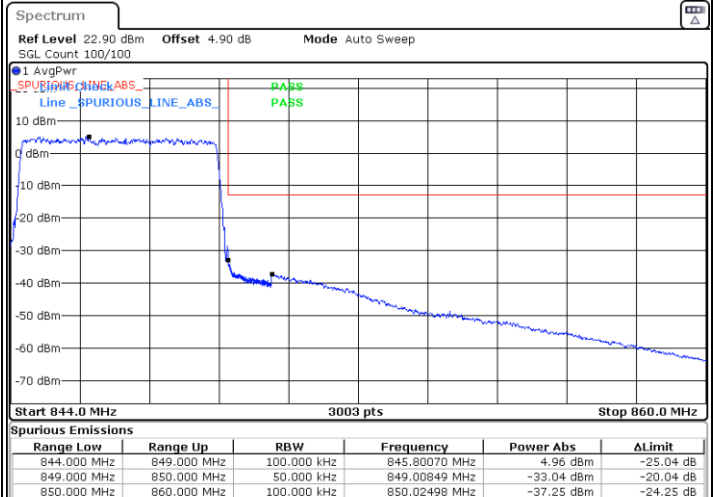
Date: 8 NOV 2019 13:37:02

Lowest Band Edge / Full RB



Date: 8 NOV 2019 13:29:41

Highest Band Edge / Full RB

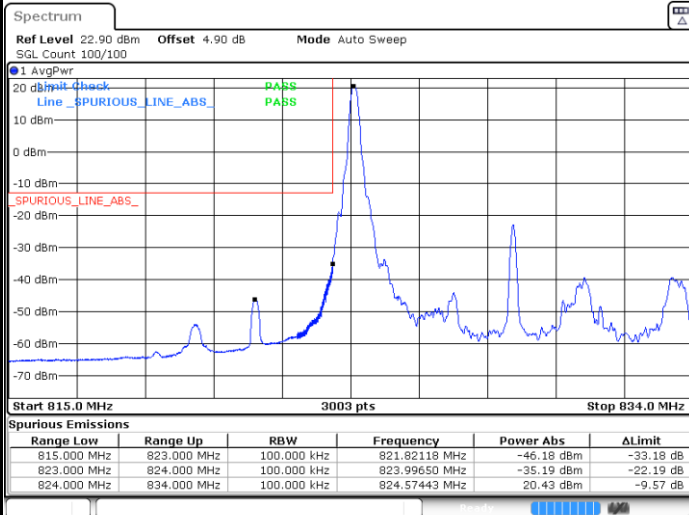


Date: 8 NOV 2019 13:35:25

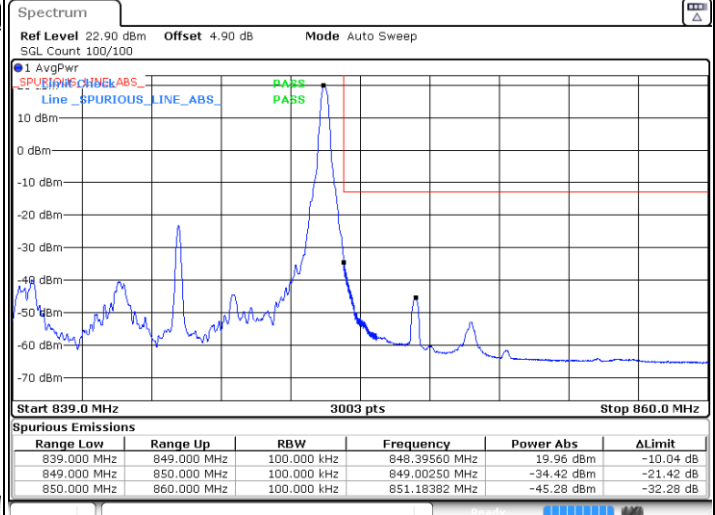


LTE Band 5 / 10MHz / QPSK

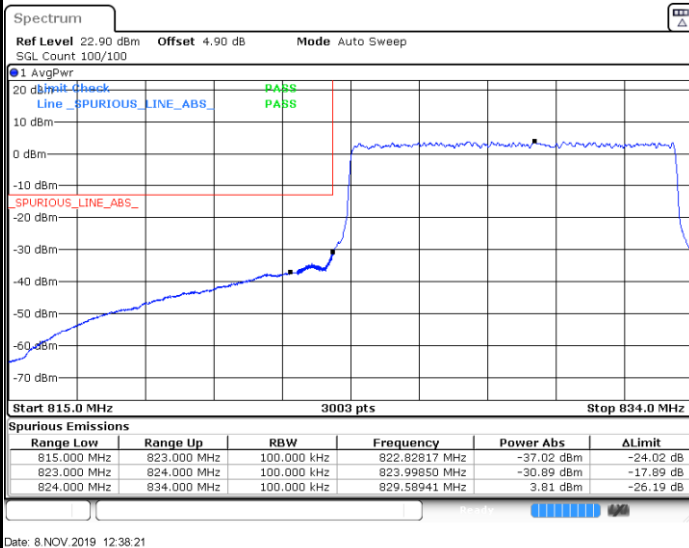
Lowest Band Edge / 1 RB



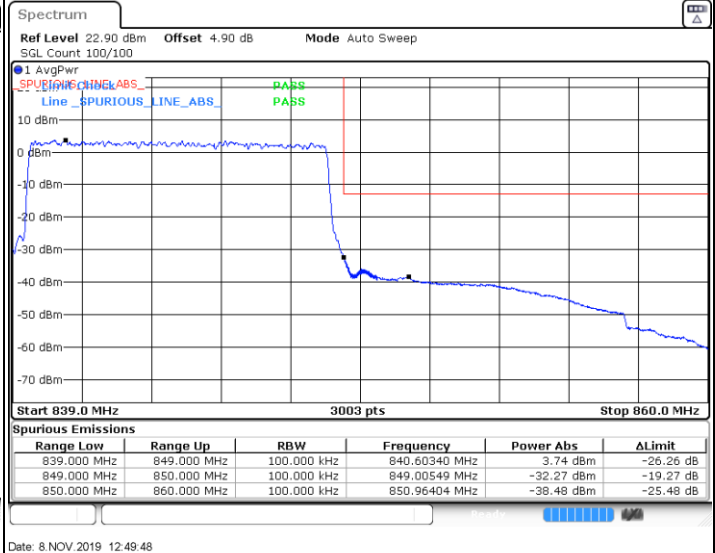
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



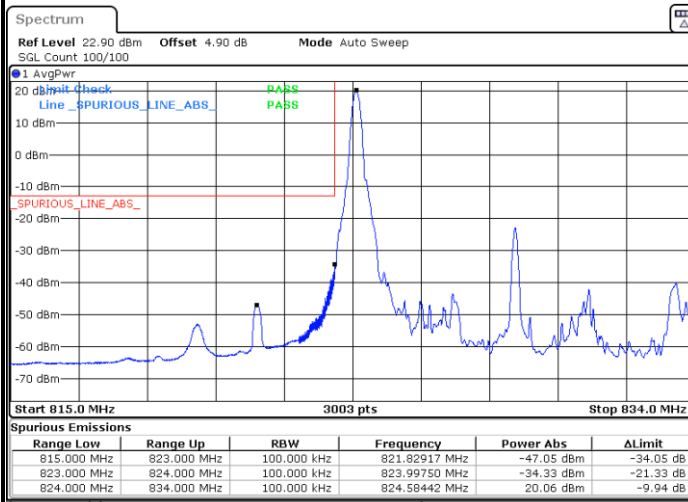
Highest Band Edge / Full RB



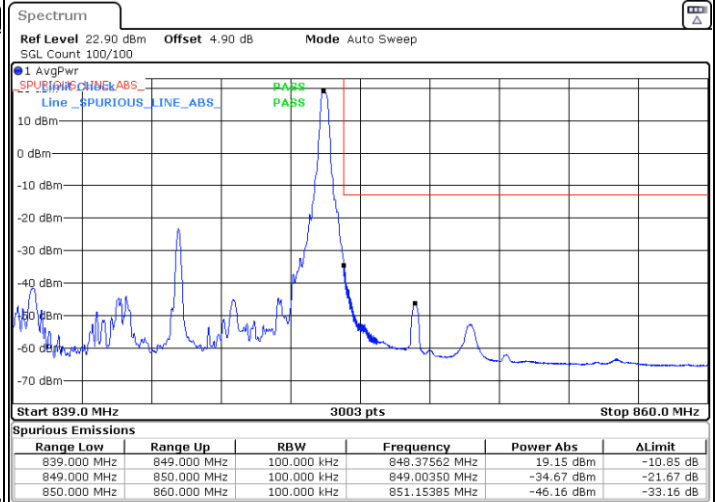


LTE Band 5 / 10MHz / 16QAM

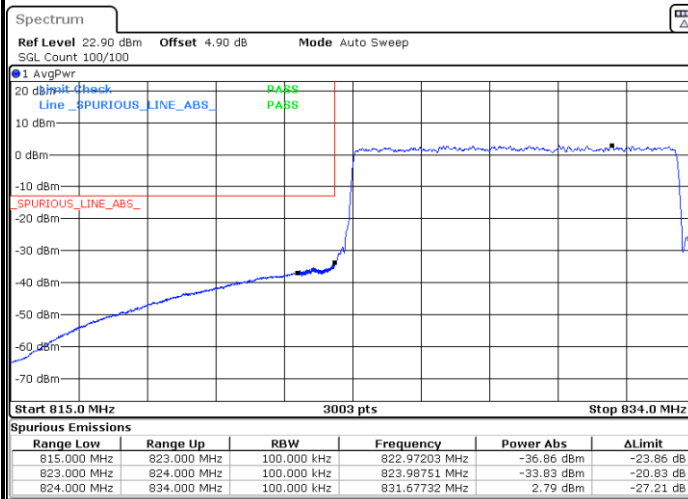
Lowest Band Edge / 1 RB



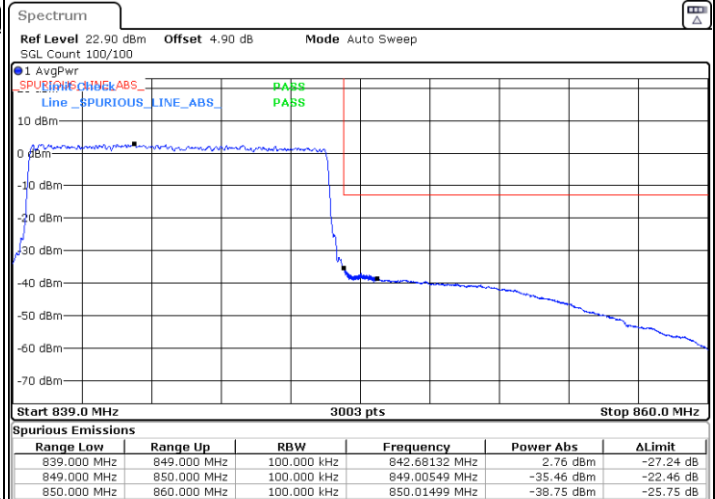
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



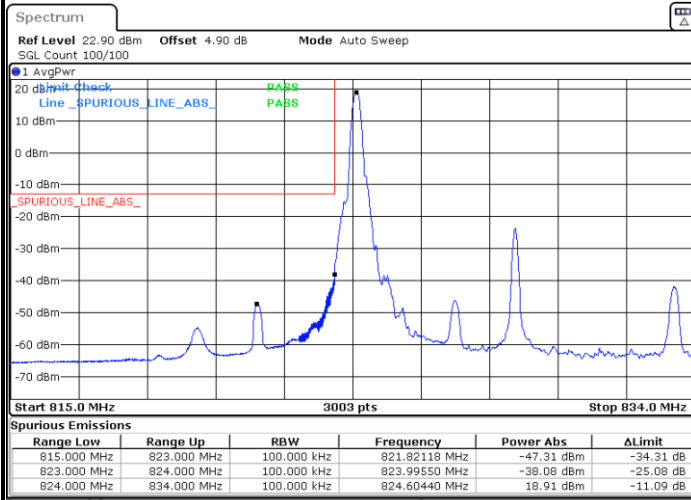
Highest Band Edge / Full RB



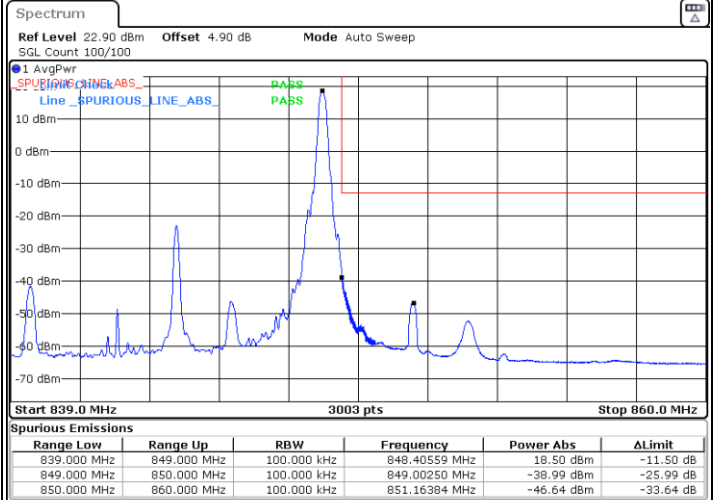


LTE Band 5 / 10MHz / 64QAM

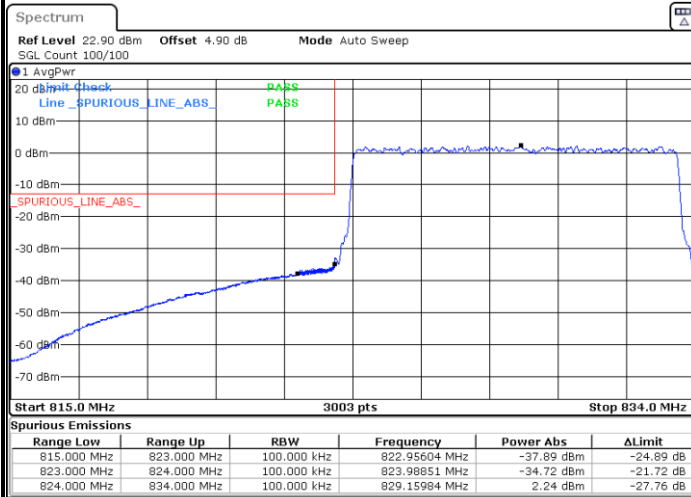
Lowest Band Edge / 1 RB



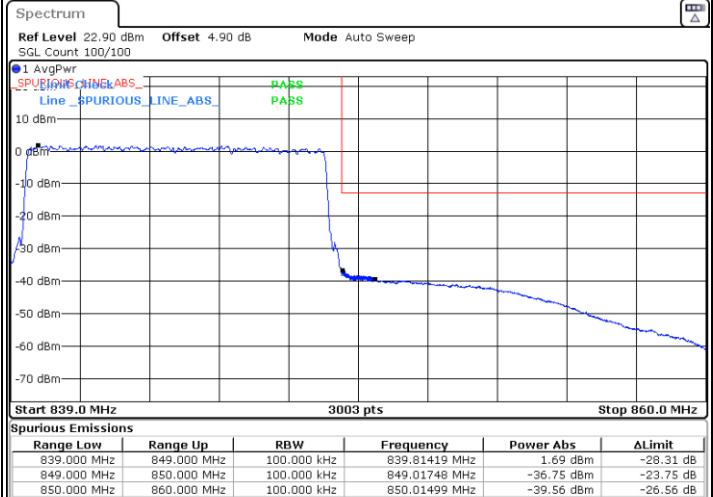
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

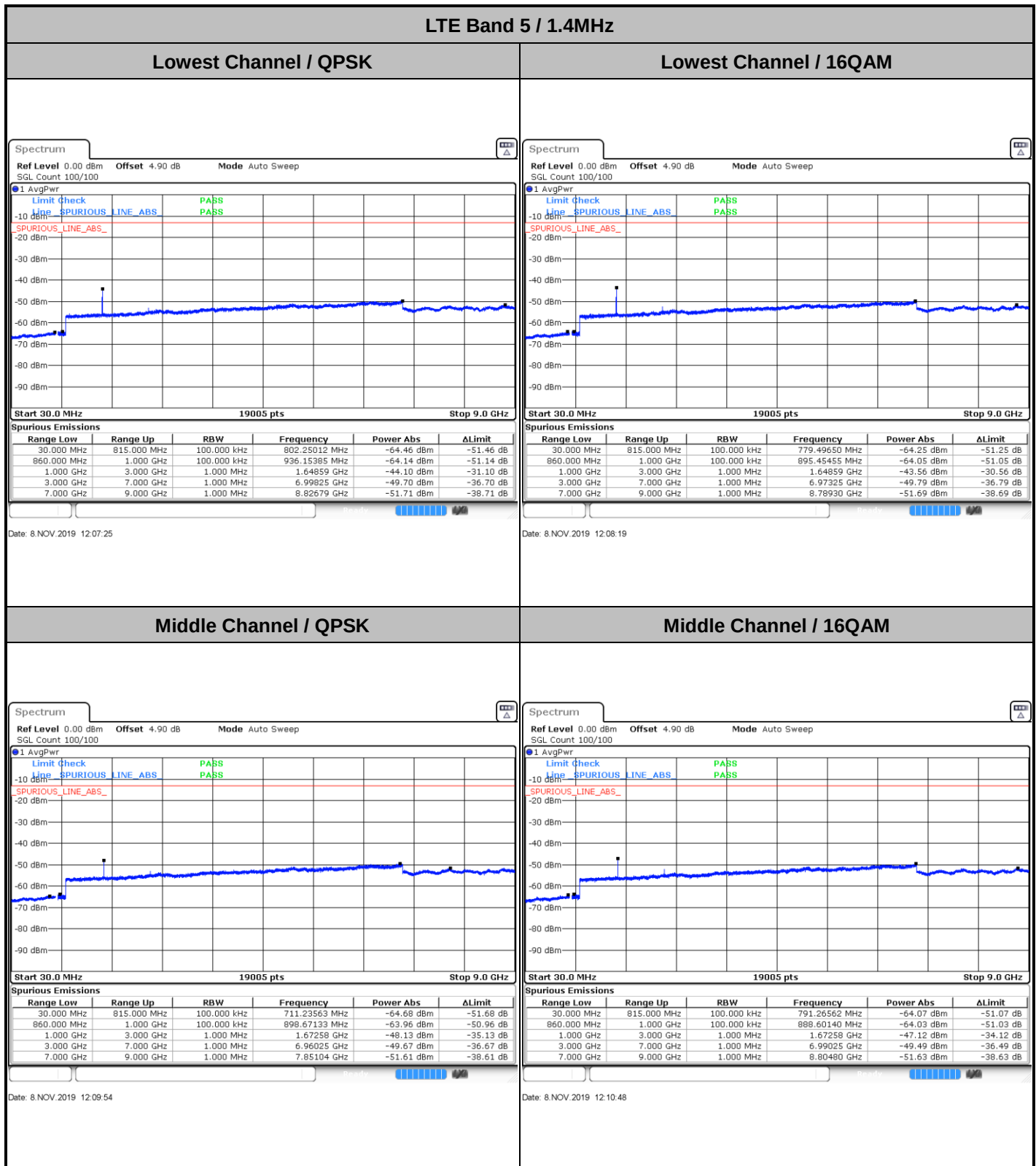


Highest Band Edge / Full RB





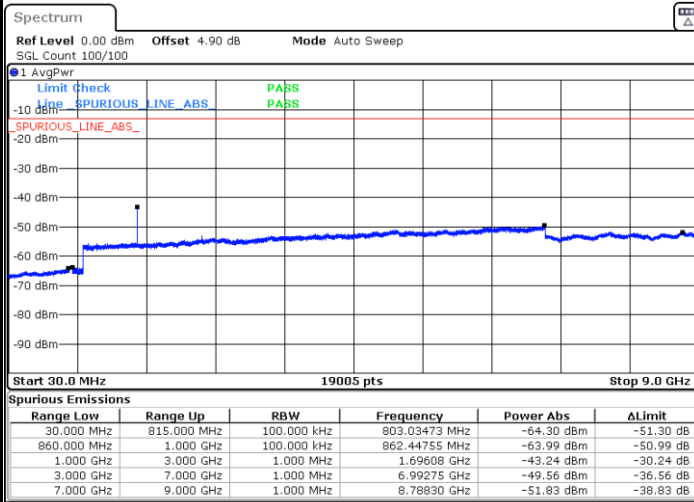
Conducted Spurious Emission





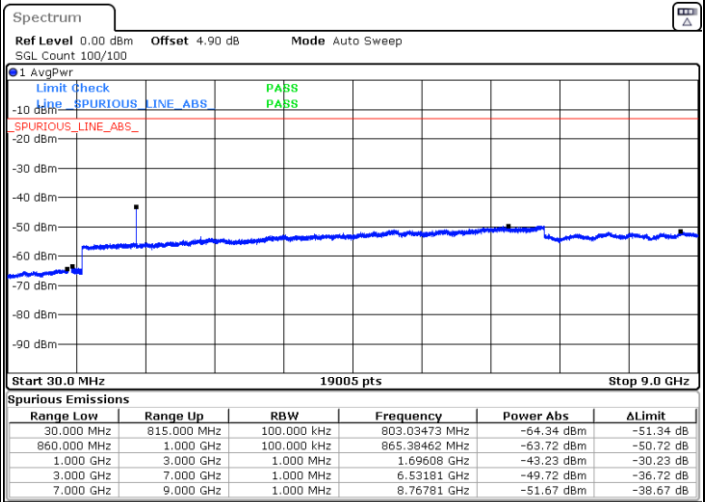
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 8 NOV. 2019 12:18:52

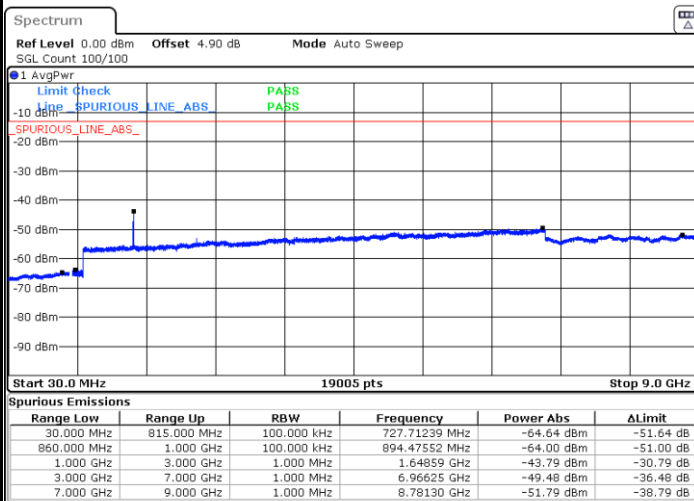
Highest Channel / 16QAM



Date: 8 NOV. 2019 12:19:46

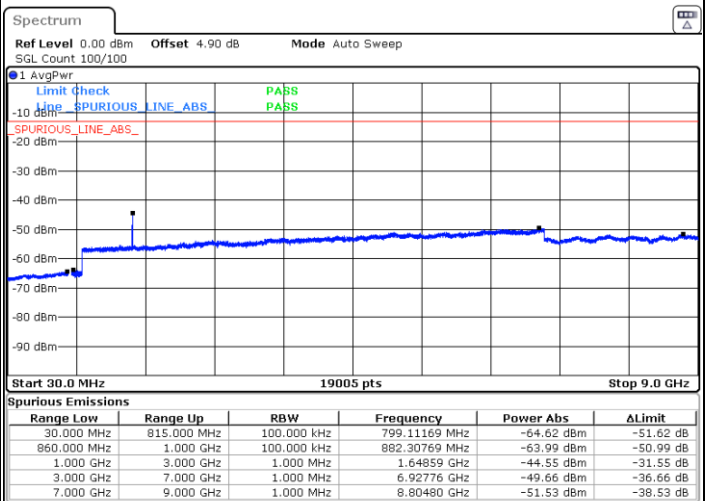
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 8 NOV. 2019 14:28:29

Lowest Channel / 16QAM

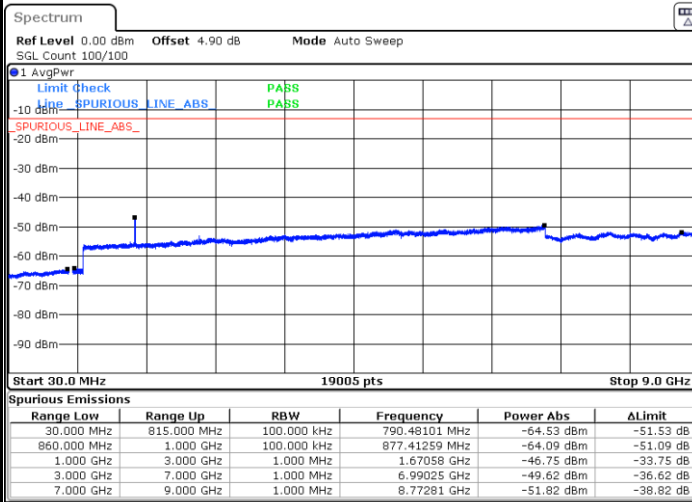


Date: 8 NOV. 2019 14:30:03



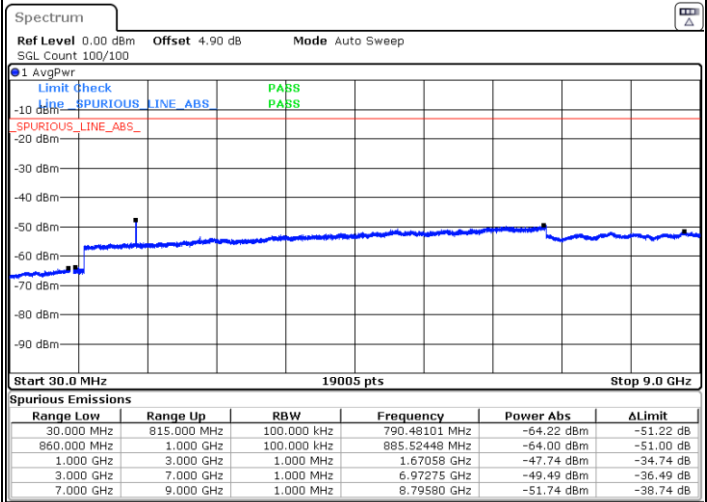
LTE Band 5 / 3MHz

Middle Channel / QPSK



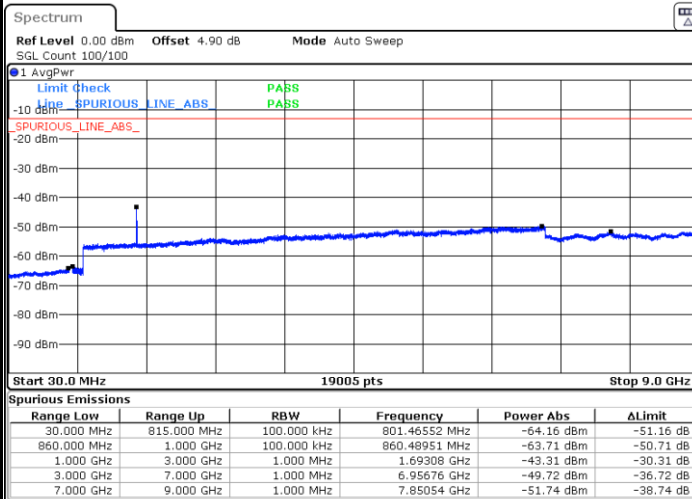
Date: 8 NOV. 2019 14:31:00

Middle Channel / 16QAM



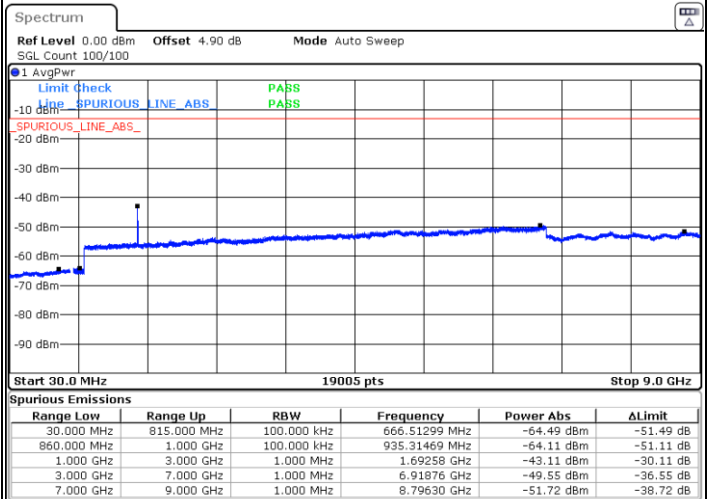
Date: 8 NOV. 2019 14:30:36

Highest Channel / QPSK



Date: 8 NOV. 2019 14:31:27

Highest Channel / 16QAM

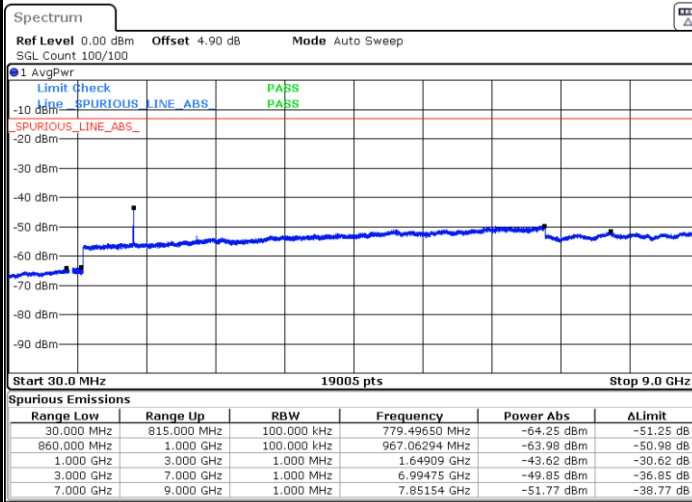


Date: 8 NOV. 2019 14:32:05



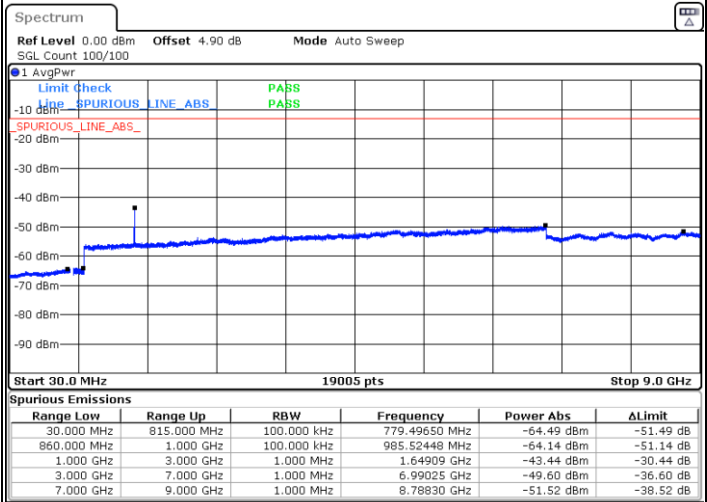
LTE Band 5 / 5MHz

Lowest Channel / QPSK



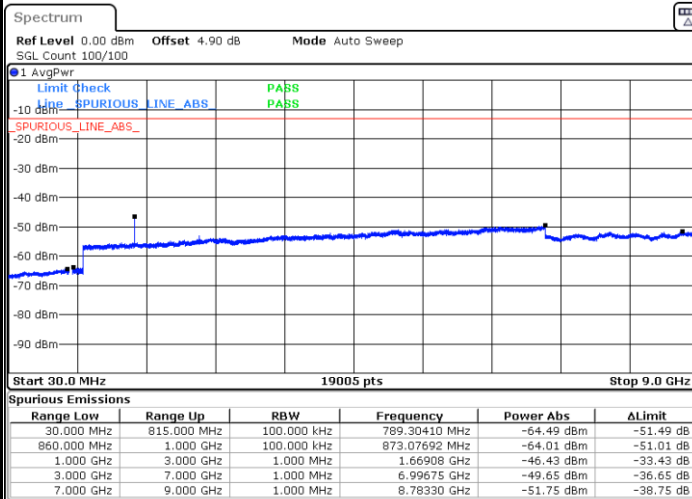
Date: 8 NOV. 2019 14:37:25

Lowest Channel / 16QAM



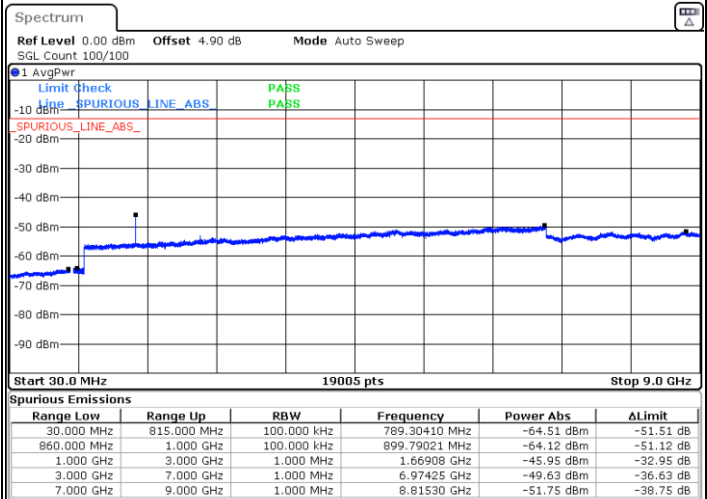
Date: 8 NOV. 2019 12:21:21

Middle Channel / QPSK



Date: 8 NOV. 2019 12:22:56

Middle Channel / 16QAM

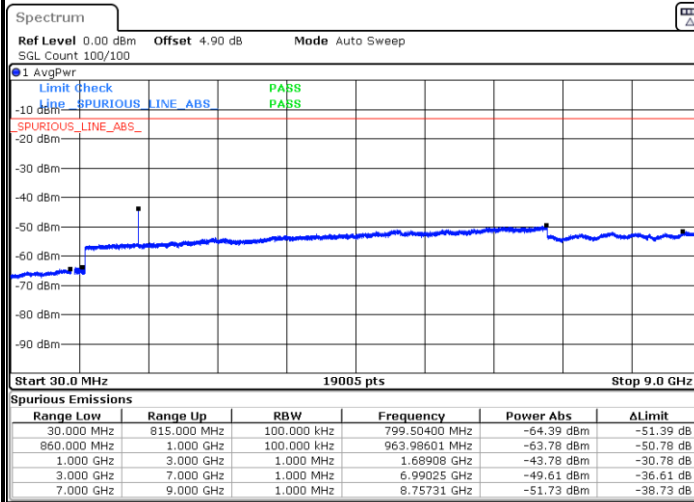


Date: 8 NOV. 2019 12:23:50



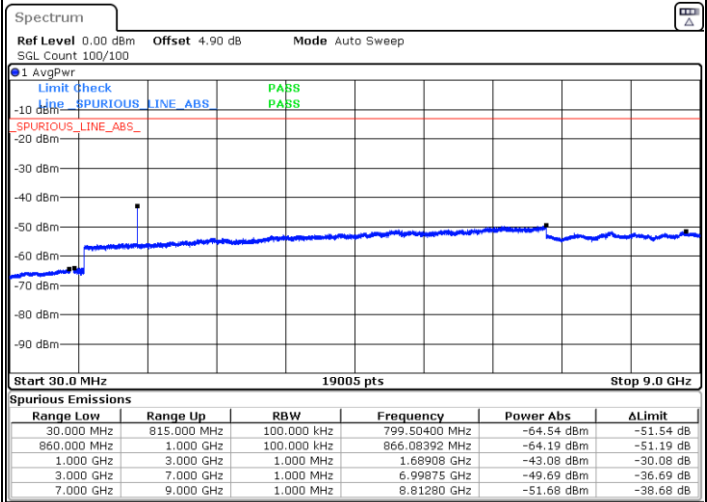
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 8 NOV. 2019 12:31:54

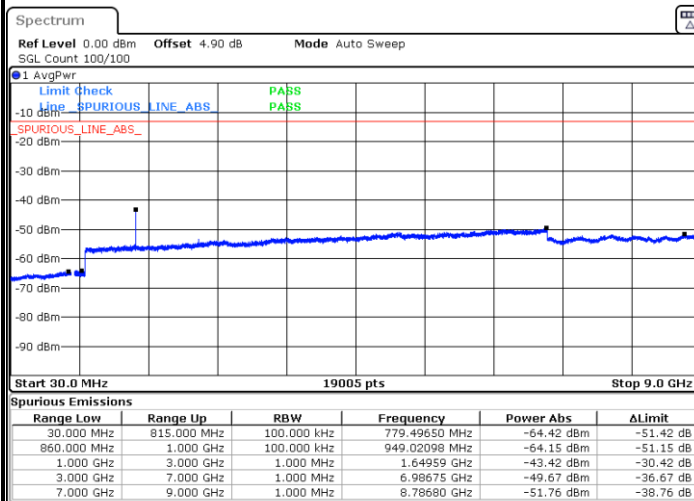
Highest Channel / 16QAM



Date: 8 NOV. 2019 12:32:48

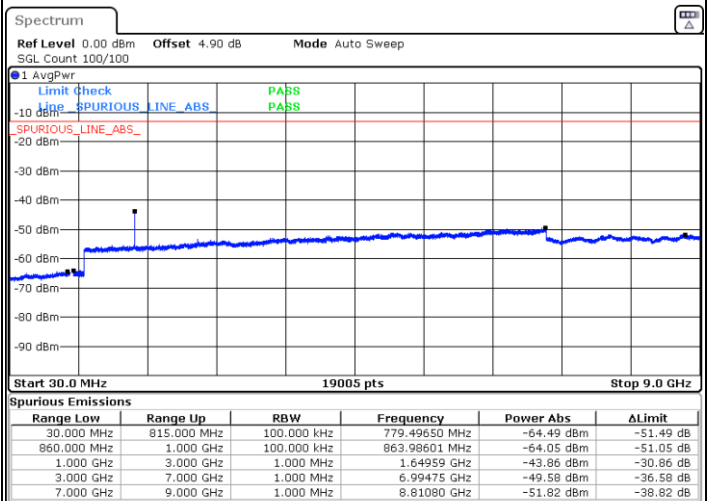
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 8 NOV. 2019 12:40:52

Lowest Channel / 16QAM

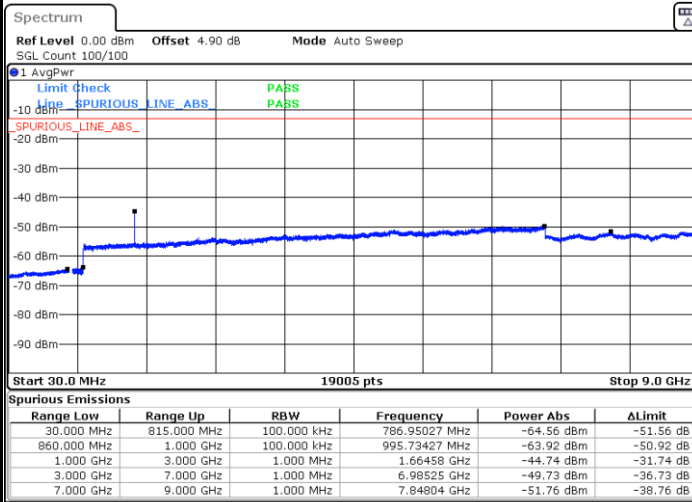


Date: 8 NOV. 2019 12:41:46



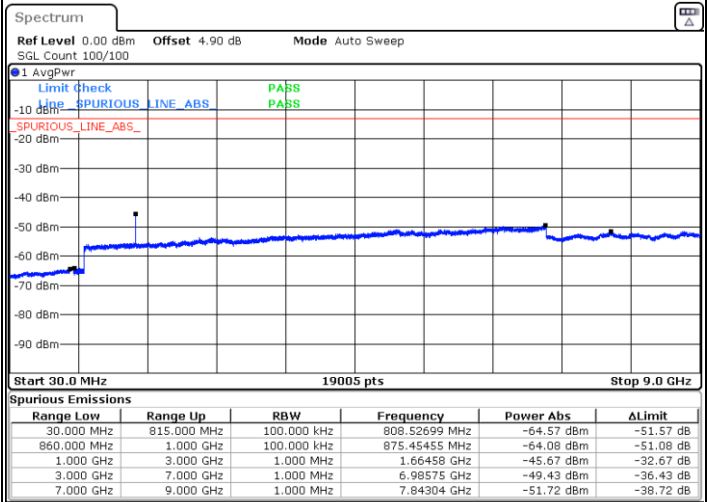
LTE Band 5 / 10MHz

Middle Channel / QPSK



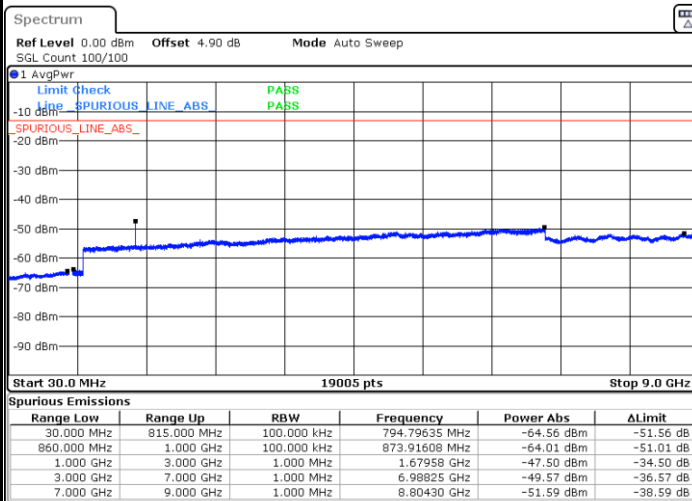
Date: 8 NOV 2019 12:43:20

Middle Channel / 16QAM



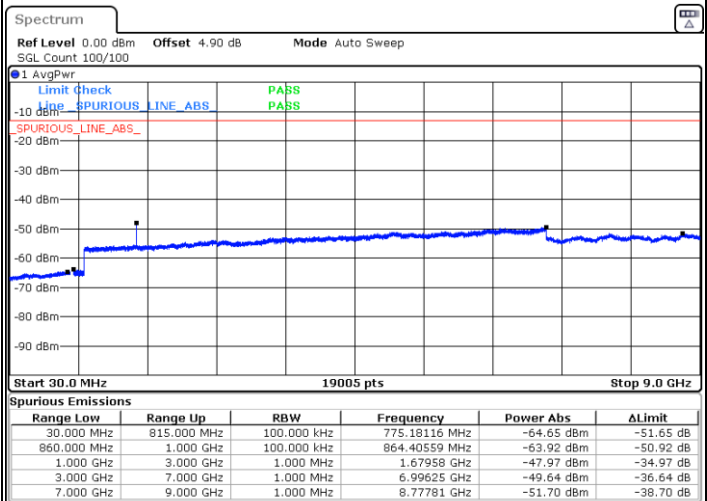
Date: 8 NOV 2019 12:44:14

Highest Channel / QPSK



Date: 8 NOV 2019 12:52:18

Highest Channel / 16QAM

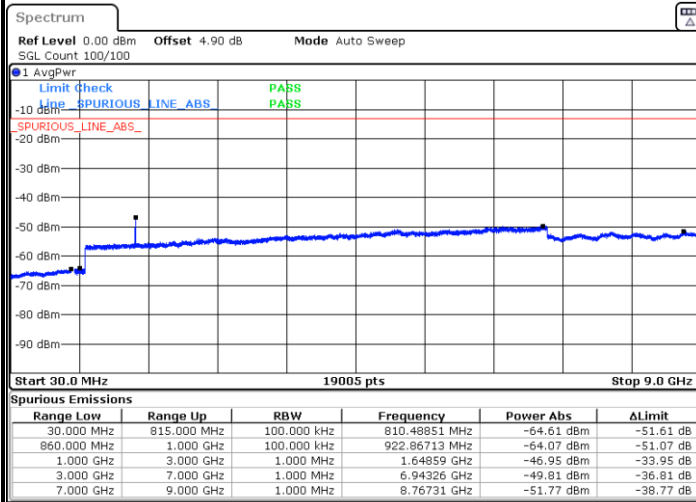


Date: 8 NOV 2019 12:53:12



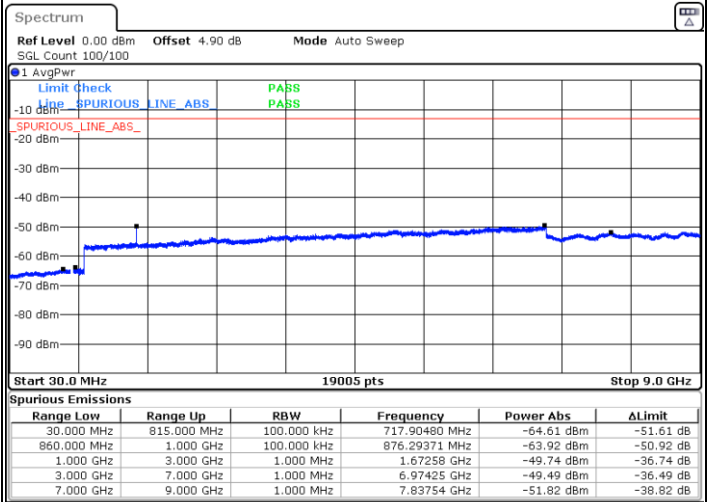
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



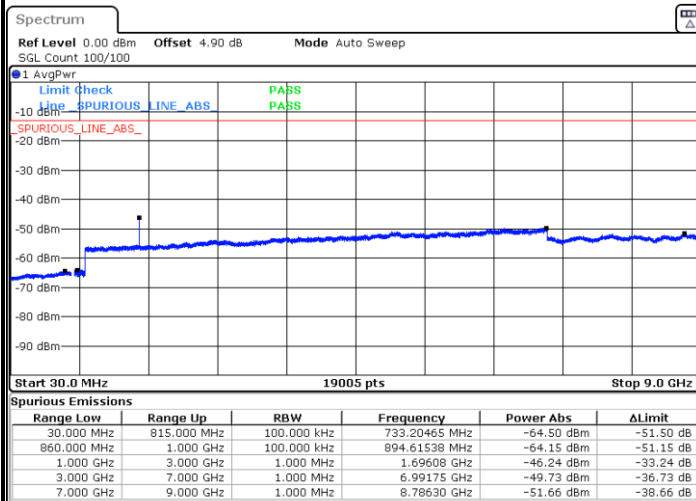
Date: 8.NOV.2019 13:11:45

Middle Channel / 64QAM



Date: 8.NOV.2019 13:12:39

Highest Channel / 64QAM

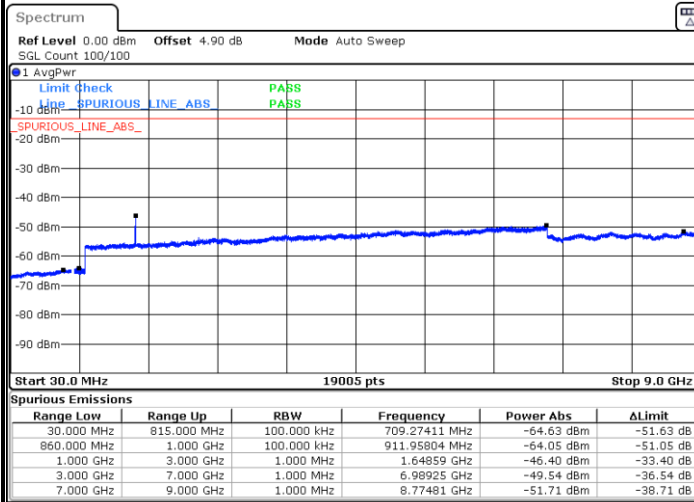


Date: 8.NOV.2019 13:17:29



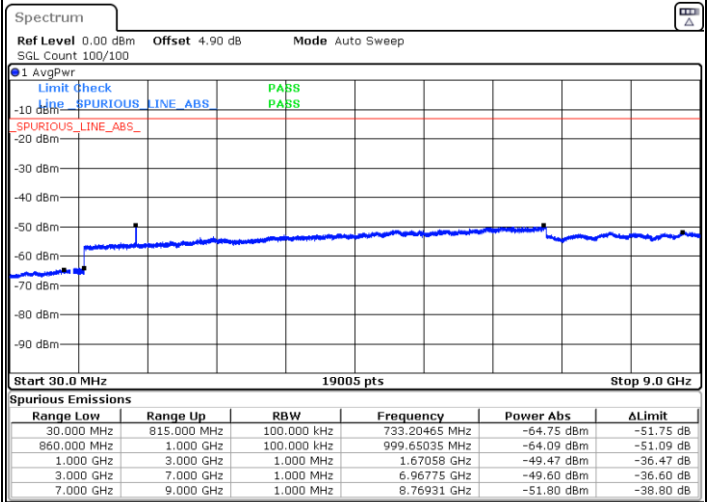
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



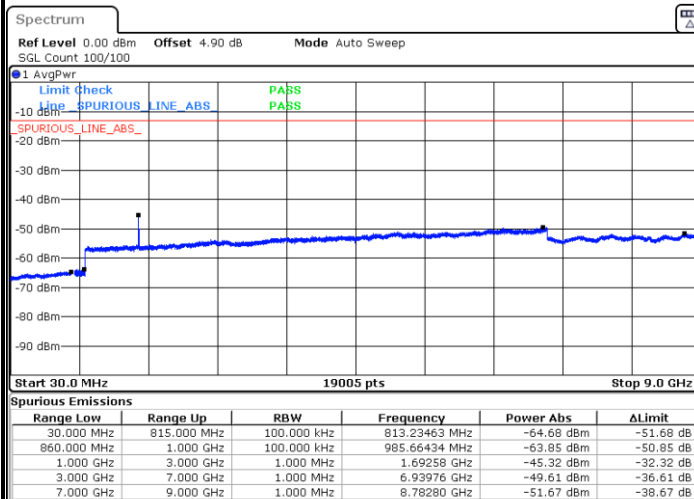
Date: 8 NOV. 2019 13:21:59

Middle Channel / 64QAM



Date: 8 NOV. 2019 13:22:53

Highest Channel / 64QAM

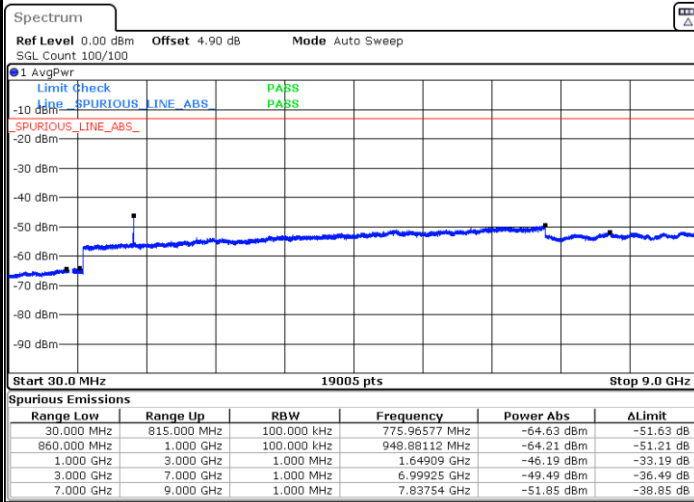


Date: 8 NOV. 2019 13:27:43



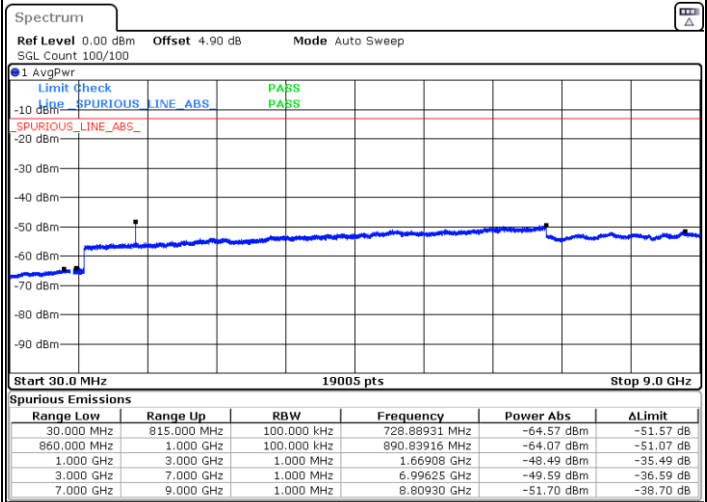
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



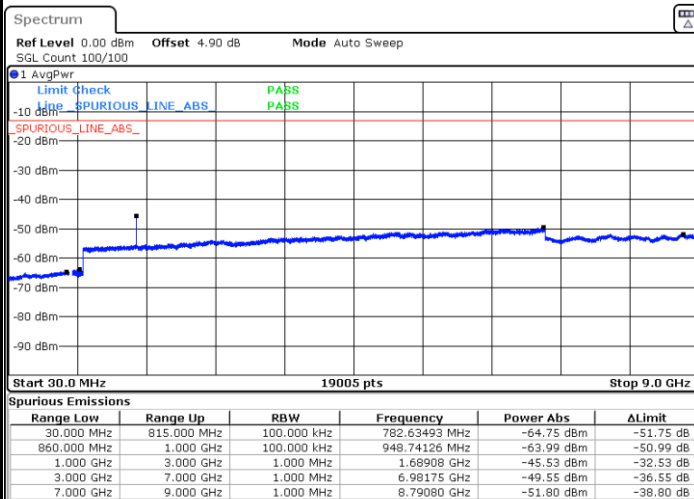
Date: 8 NOV. 2019 13:32:12

Middle Channel / 64QAM



Date: 8 NOV. 2019 13:33:06

Highest Channel / 64QAM

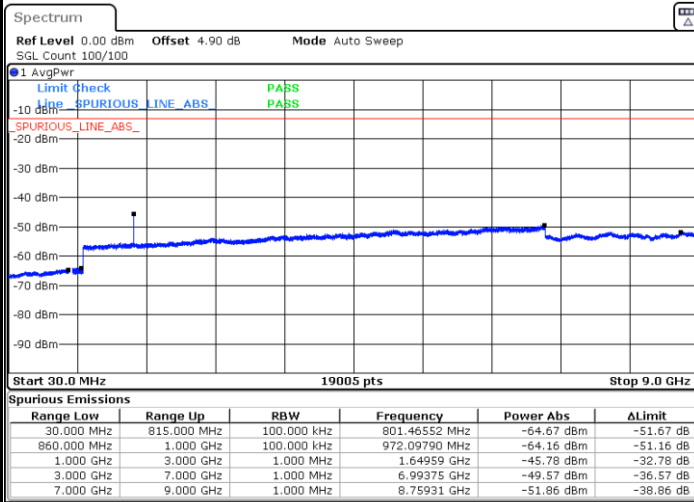


Date: 8 NOV. 2019 13:37:56



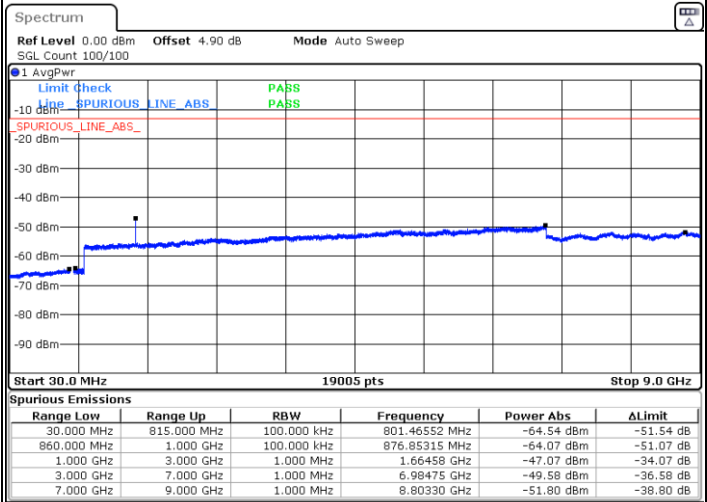
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



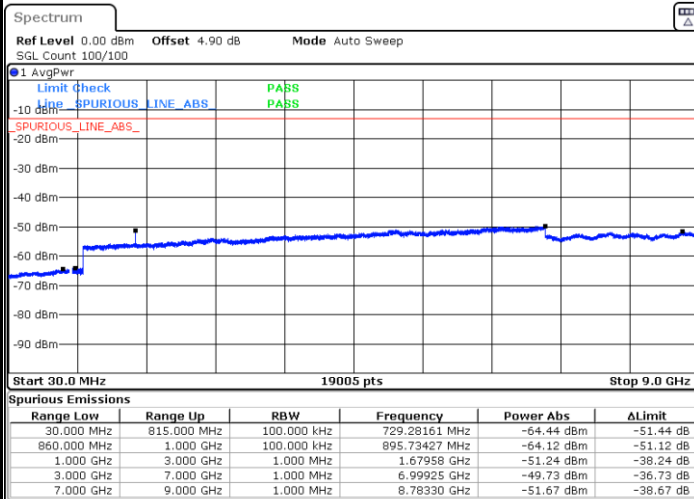
Date: 8 NOV. 2019 13:42:25

Middle Channel / 64QAM



Date: 8 NOV. 2019 13:43:19

Highest Channel / 64QAM



Date: 8 NOV. 2019 13:48:08

**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	0.0012	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0050	
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

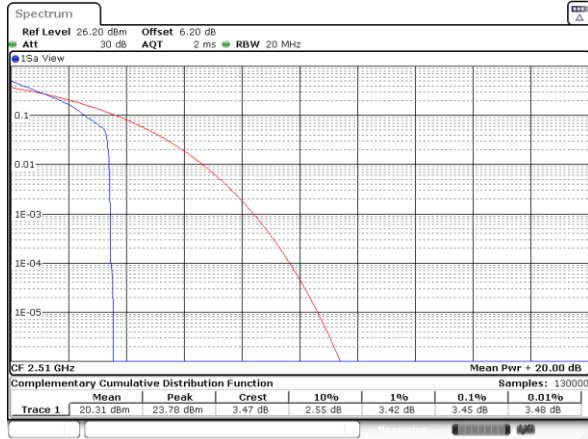
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.52	5.25	5.86	PASS
Middle CH	3.51	4.49	5.33	5.86	
Highest CH	3.36	4.49	4.87	5.77	
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.88	6.41			PASS
Middle CH	6.49	6.46			
Highest CH	6.17	6.52			

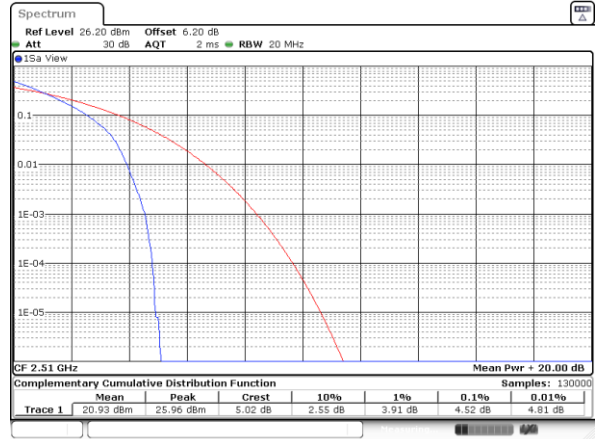


LTE Band 7 / 20MHz / QPSK

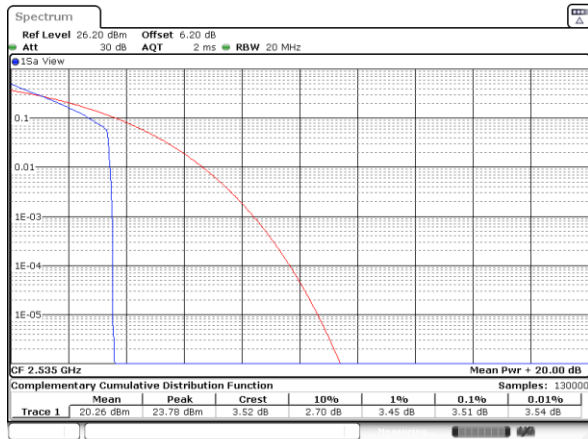
Lowest Channel / 1RB



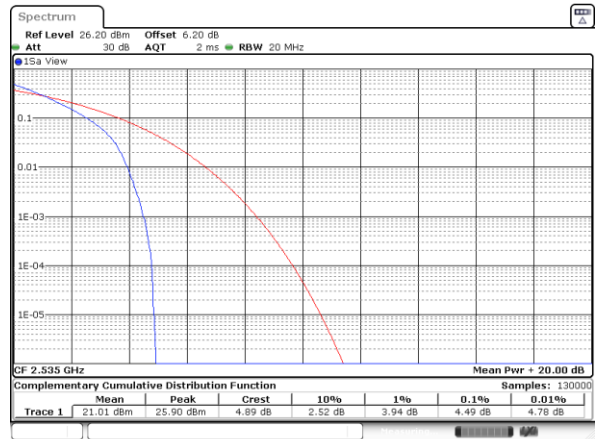
Lowest Channel / Full RB



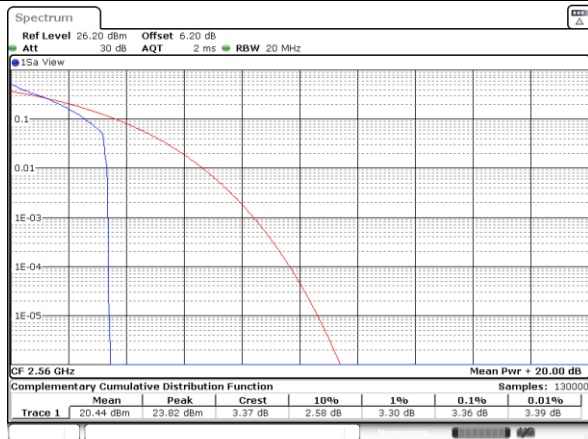
Middle Channel / 1RB



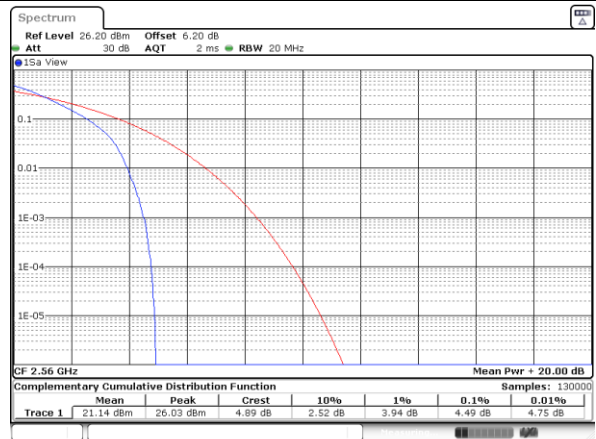
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



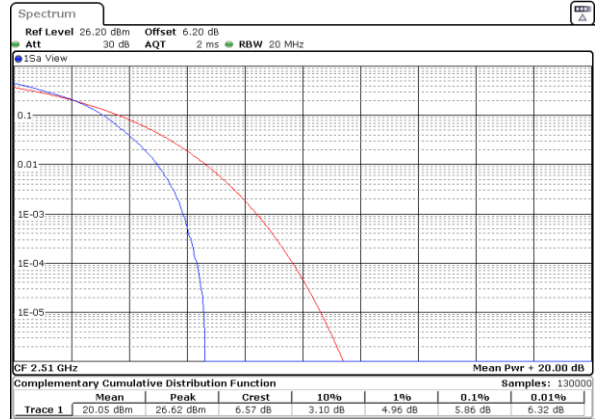


LTE Band 7 / 20MHz / 16QAM

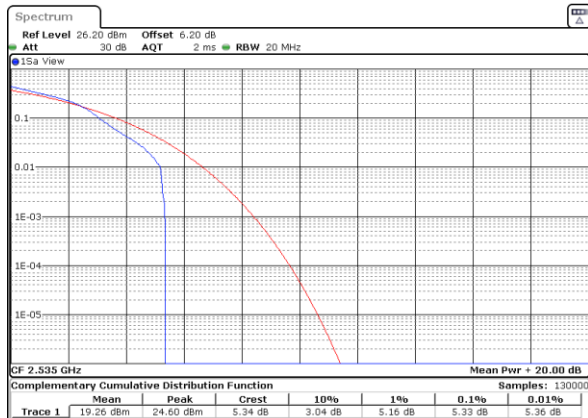
Lowest Channel / 1RB



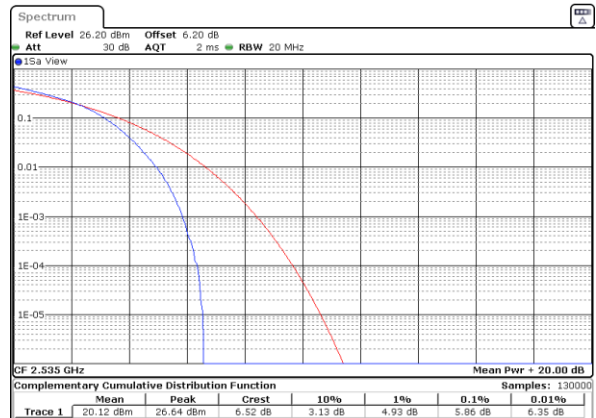
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



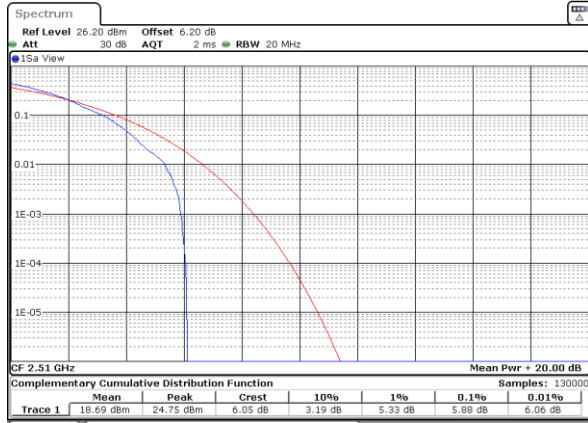
Highest Channel / Full RB





LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



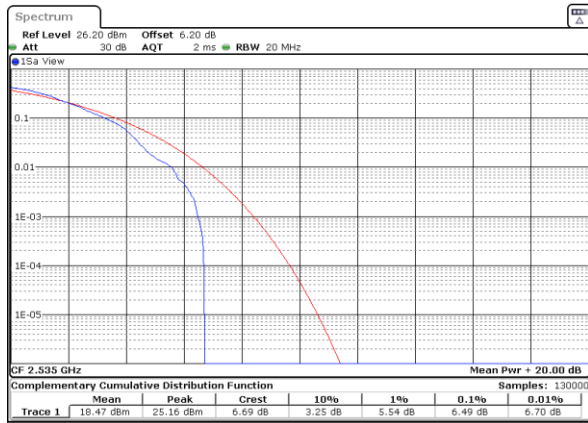
Date: 8 NOV 2019 11:46:20

Lowest Channel / Full RB



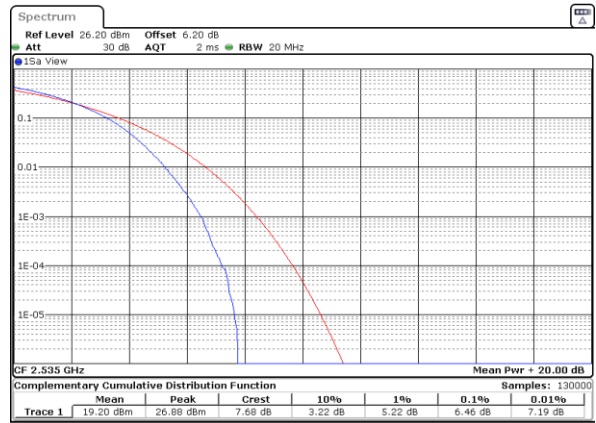
Date: 8 NOV 2019 11:46:44

Middle Channel / 1RB



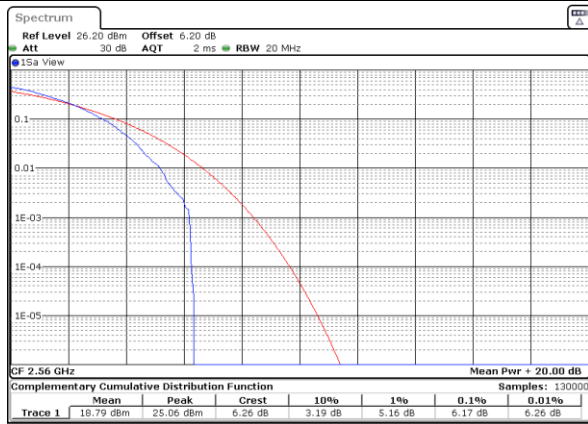
Date: 8 NOV 2019 11:47:07

Middle Channel / Full RB



Date: 8 NOV 2019 11:46:54

Highest Channel / 1RB



Date: 8 NOV 2019 11:47:20

Highest Channel / Full RB



Date: 8 NOV 2019 11:47:28

**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.935	4.915	9.87	9.61	14.505	14.326	20.18	20.18
Middle CH					4.915	4.865	9.79	9.91	14.416	14.565	20.18	20.18
Highest CH					4.985	4.855	9.91	9.85	14.416	14.206	20.30	20.18
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.885		9.77		14.296		20.22	
Middle CH					4.855		9.89		14.565		20.22	
Highest CH					4.895		9.69		14.505		20.22	