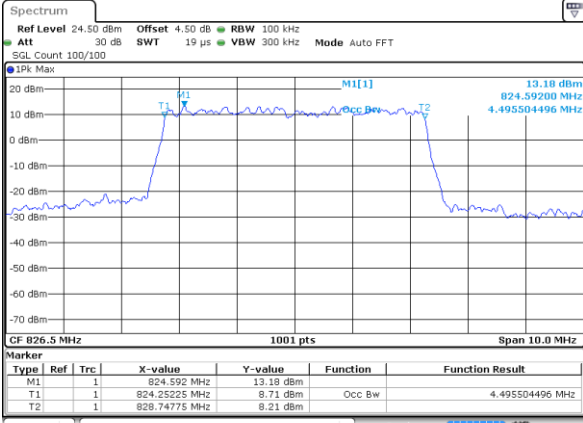




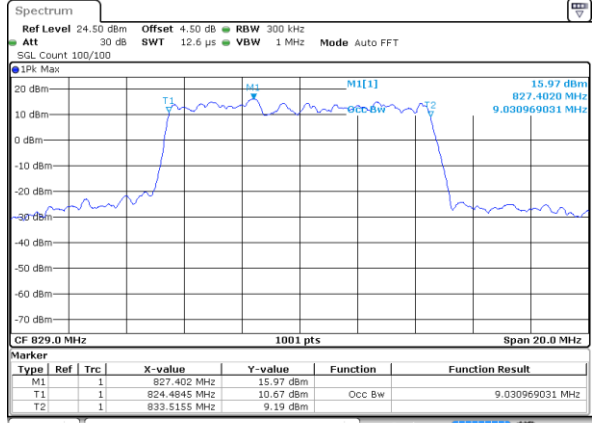
LTE Band 5

Lowest Channel / 5MHz / 64QAM



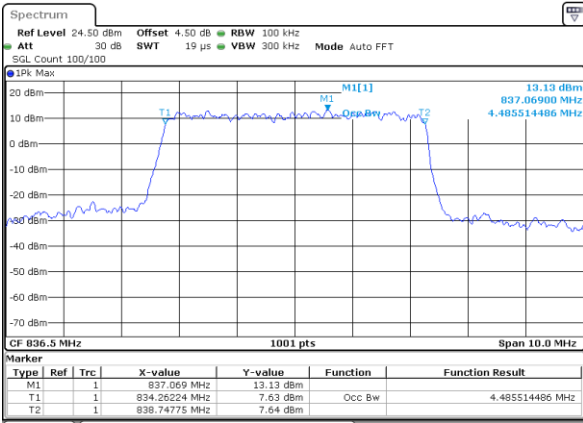
Date: 15 FEB 2020 06:29:49

Lowest Channel / 10MHz / 64QAM



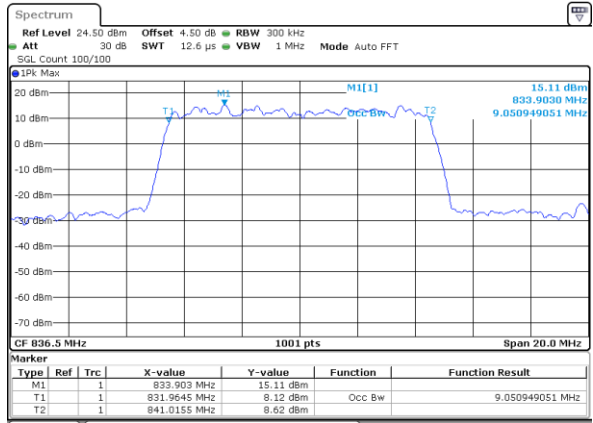
Date: 15 FEB 2020 06:40:01

Middle Channel / 5MHz / 64QAM



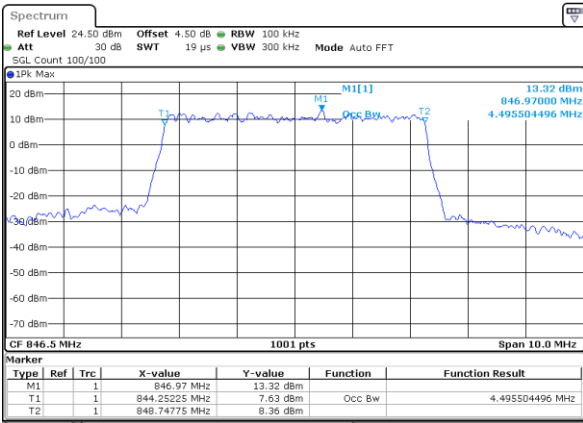
Date: 15 FEB 2020 06:35:12

Middle Channel / 10MHz / 64QAM



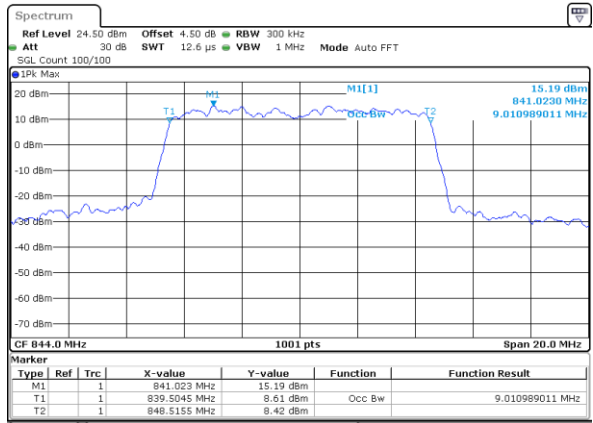
Date: 15 FEB 2020 06:45:24

Highest Channel / 5MHz / 64QAM



Date: 15 FEB 2020 06:35:32

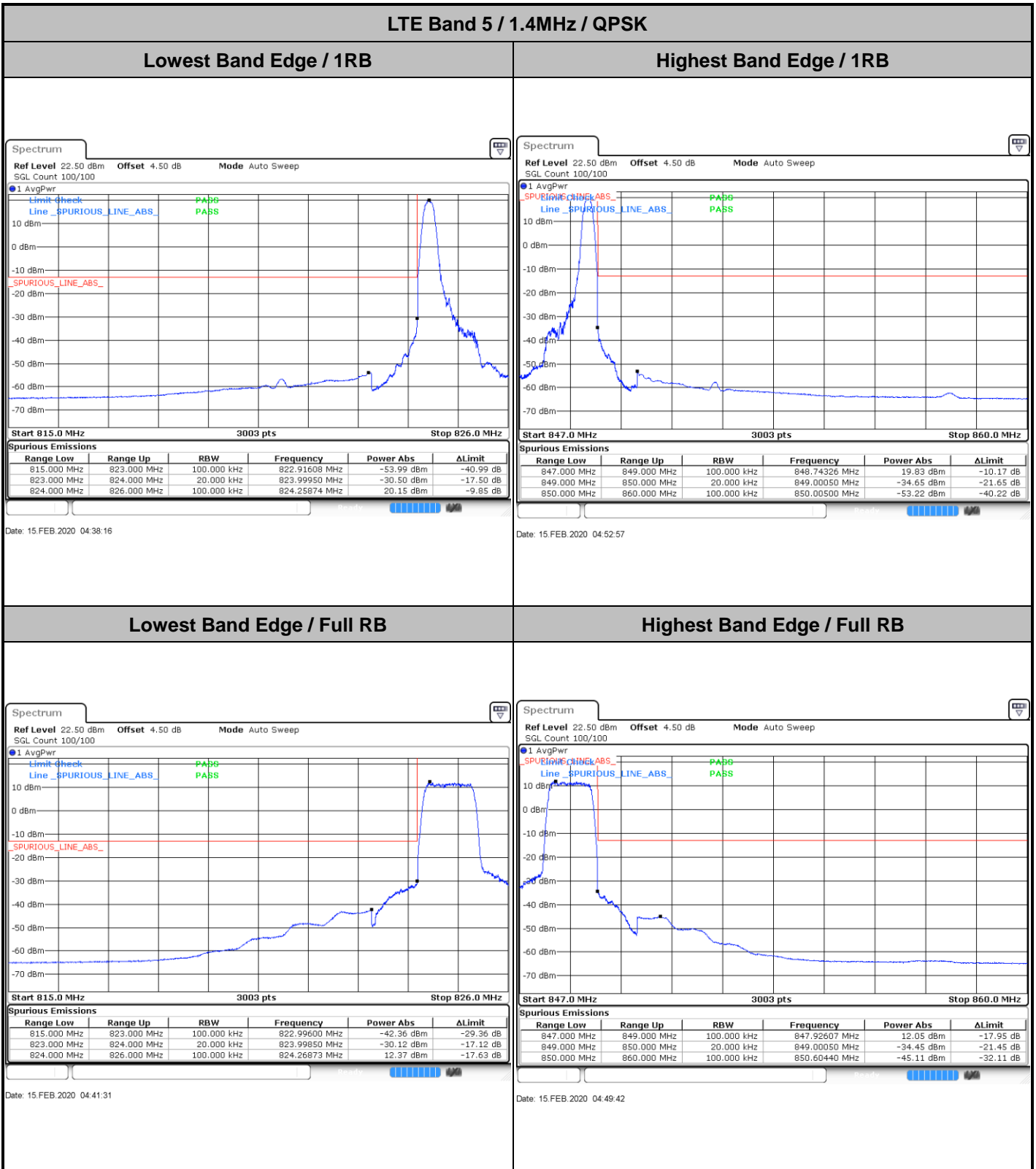
Highest Channel / 10MHz / 64QAM



Date: 15 FEB 2020 06:45:45



# Conducted Band Edge





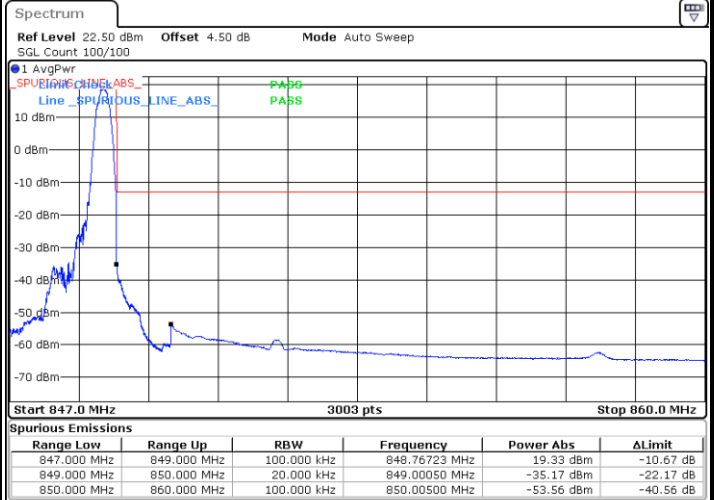
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



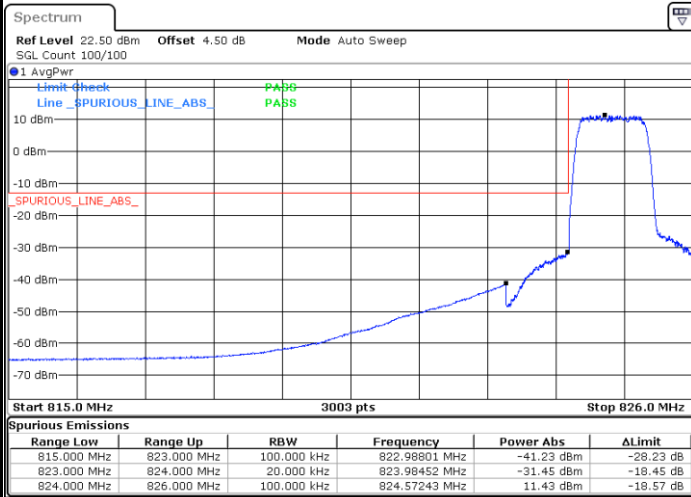
Date: 15.FEB.2020 04:39:54

Highest Band Edge / 1 RB



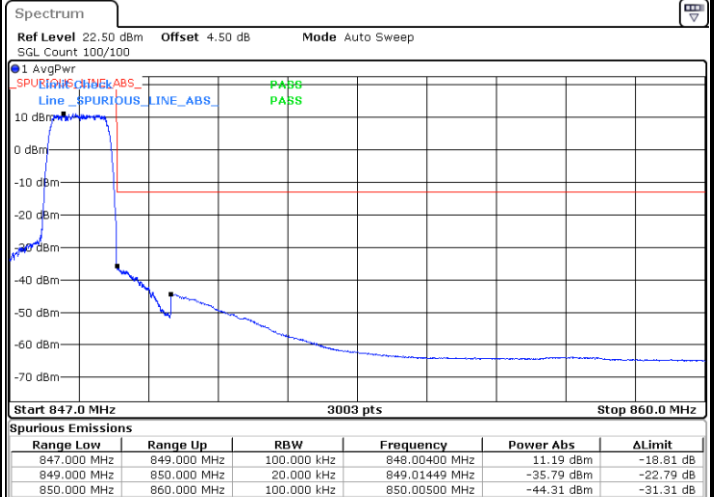
Date: 15.FEB.2020 04:54:35

Lowest Band Edge / Full RB



Date: 15.FEB.2020 04:43:08

Highest Band Edge / Full RB

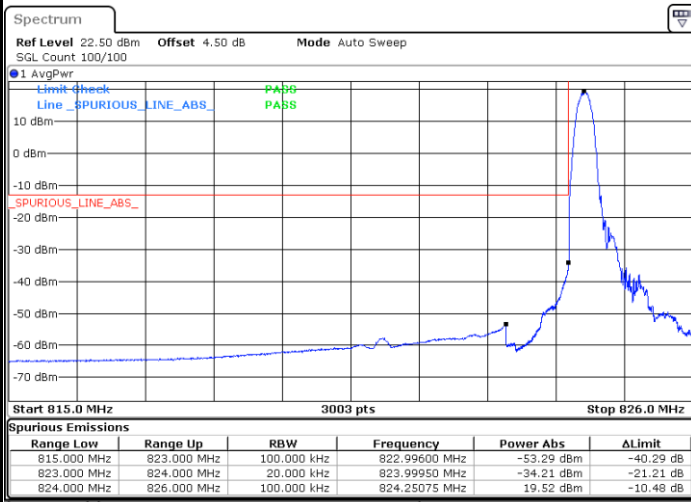


Date: 15.FEB.2020 04:51:20



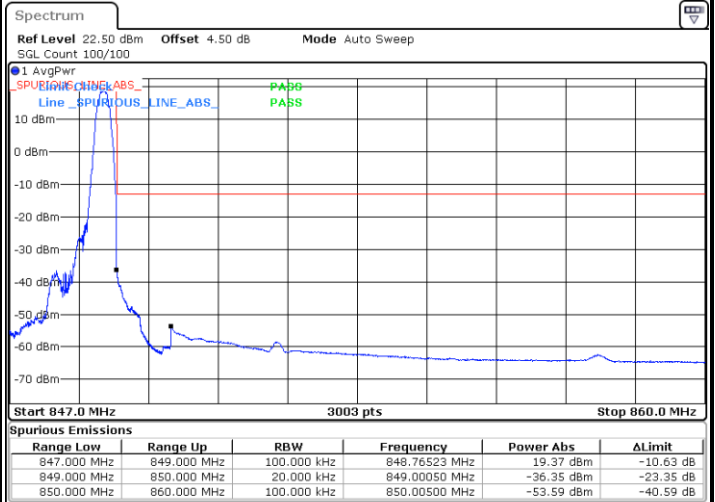
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



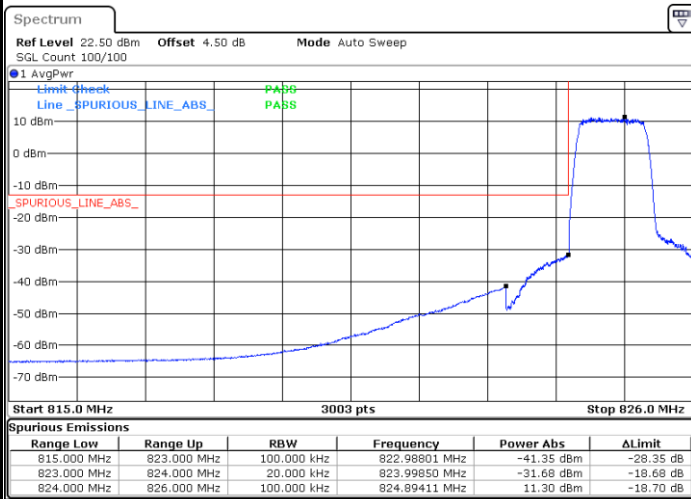
Date: 15.FEB.2020 06:12:51

Highest Band Edge / 1 RB



Date: 15.FEB.2020 06:18:34

Lowest Band Edge / Full RB



Date: 15.FEB.2020 06:11:13

Highest Band Edge / Full RB

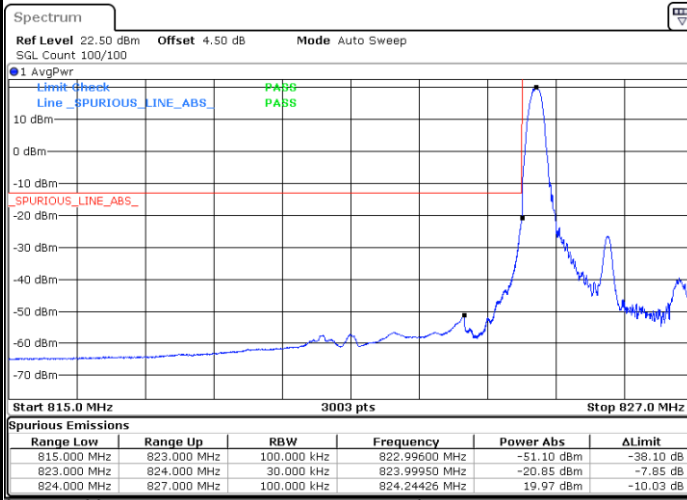


Date: 15.FEB.2020 06:16:56



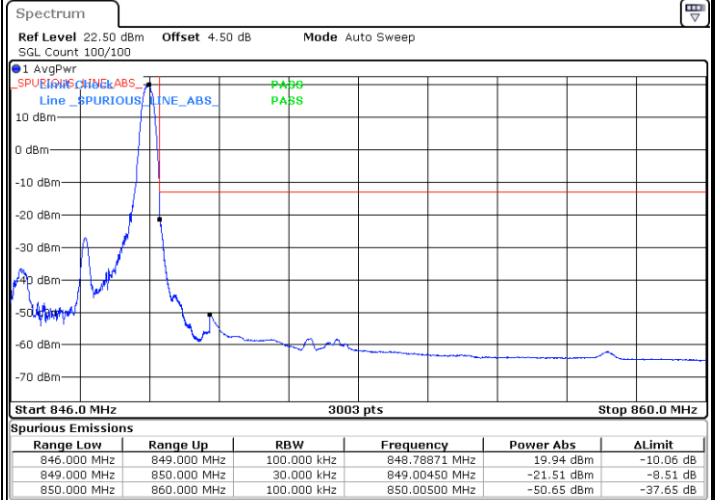
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



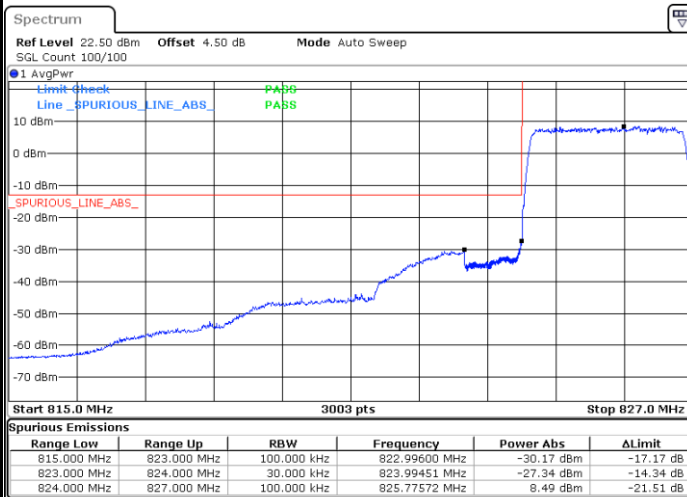
Date: 15.FEB.2020 05:24:36

Highest Band Edge / 1 RB



Date: 15.FEB.2020 05:29:50

Lowest Band Edge / Full RB



Date: 15.FEB.2020 05:39:11

Highest Band Edge / Full RB

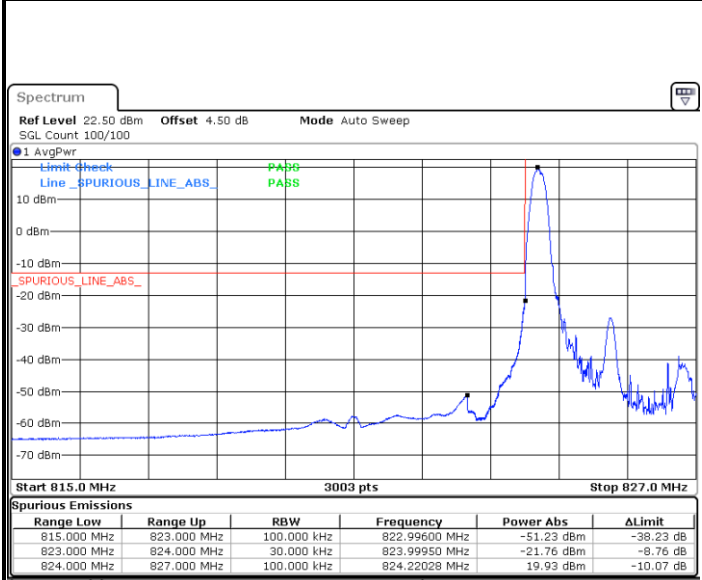


Date: 15.FEB.2020 06:06:27



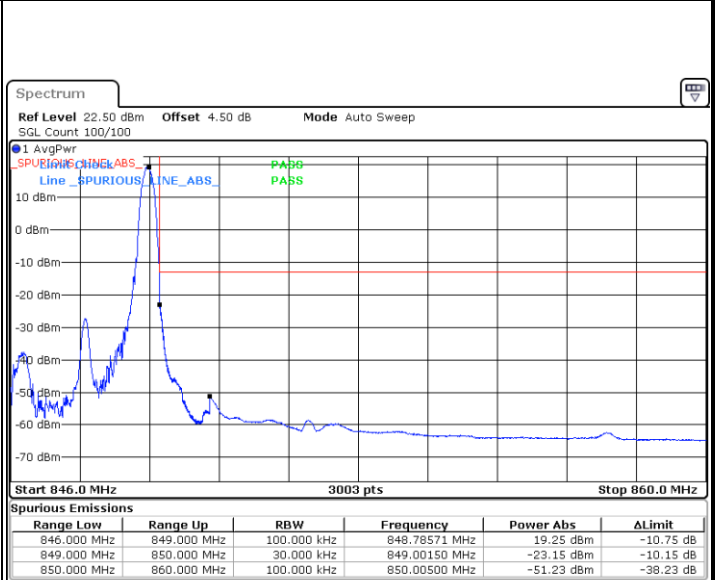
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



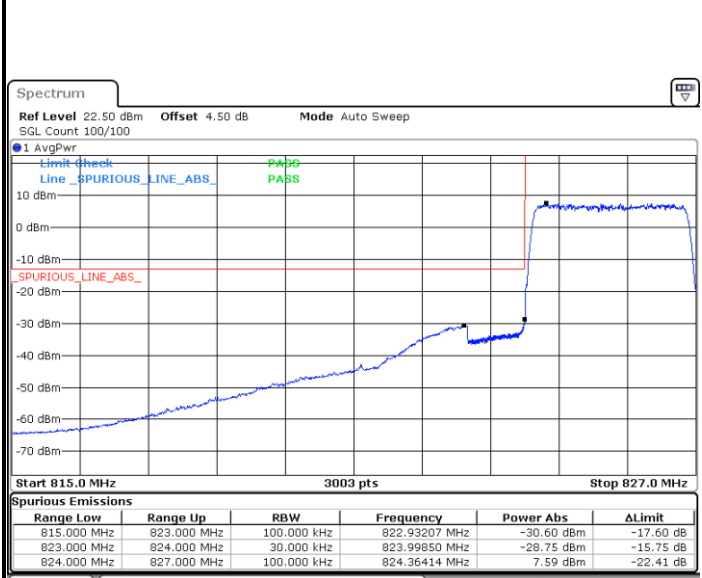
Date: 15.FEB.2020 05:22:59

Highest Band Edge / 1 RB



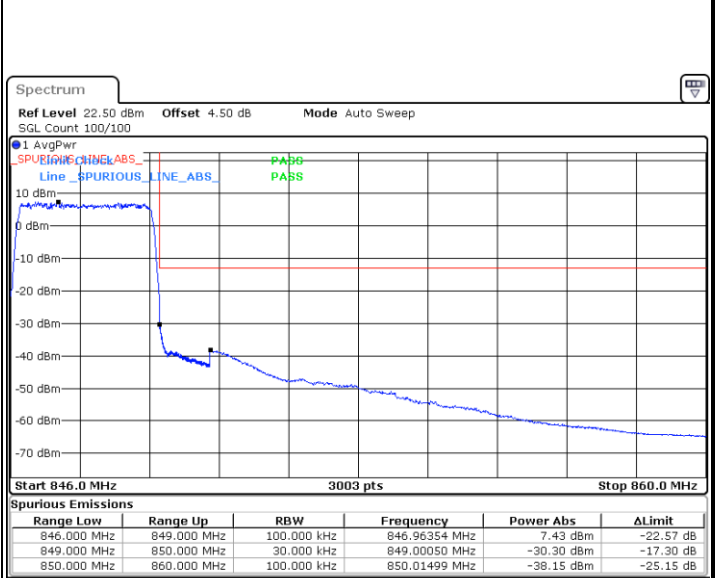
Date: 15.FEB.2020 05:31:27

Lowest Band Edge / Full RB



Date: 15.FEB.2020 05:40:48

Highest Band Edge / Full RB

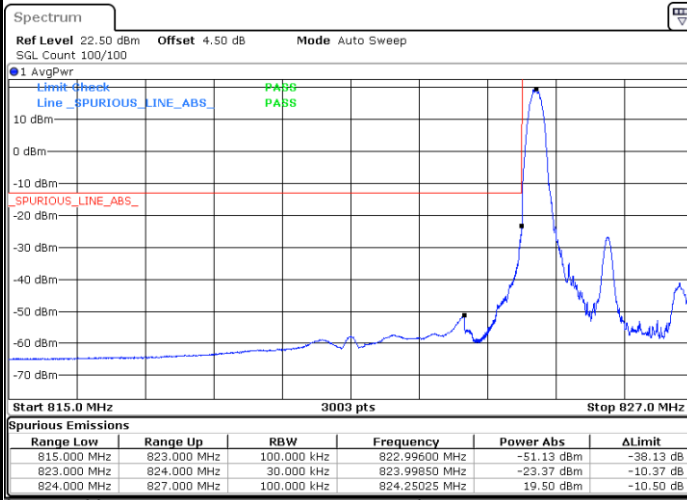


Date: 15.FEB.2020 06:05:13



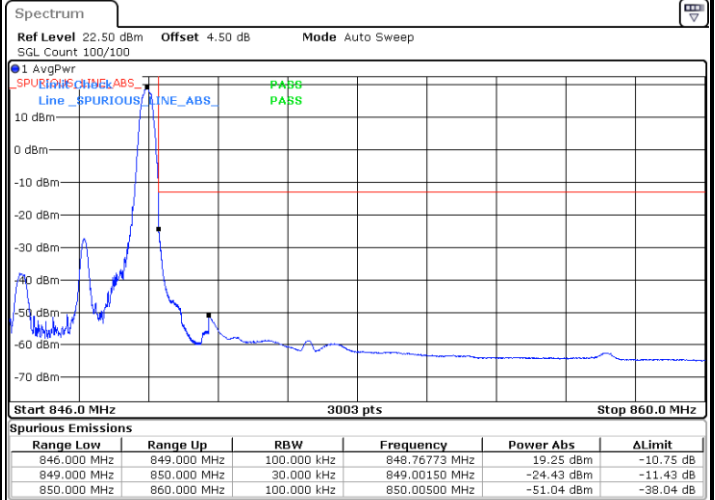
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



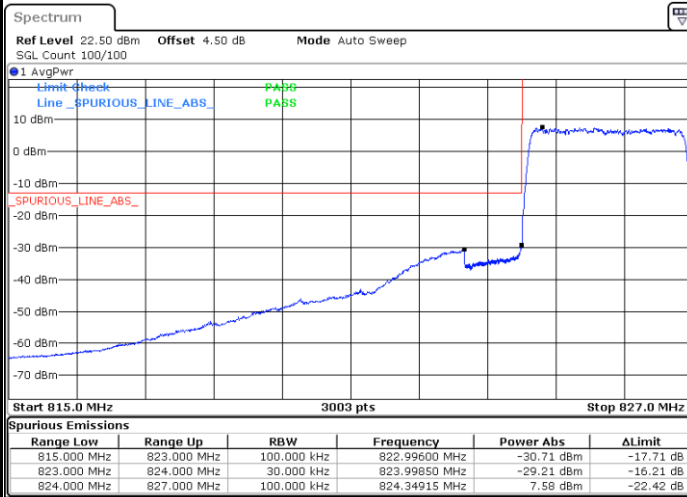
Date: 15.FEB.2020 06:23:03

Highest Band Edge / 1 RB



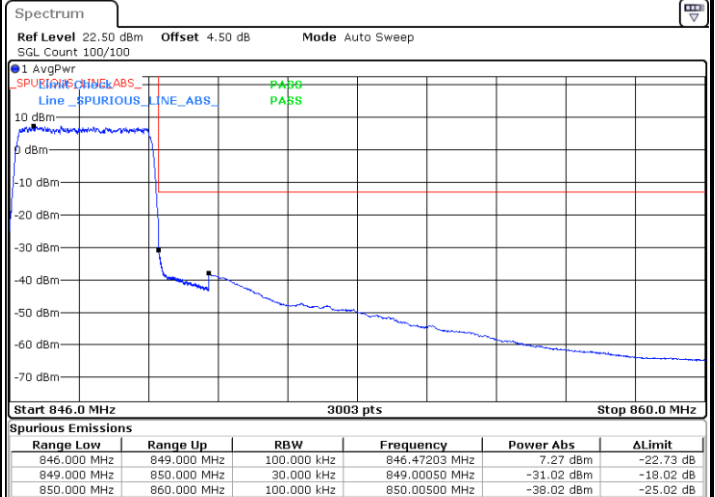
Date: 15.FEB.2020 06:28:46

Lowest Band Edge / Full RB



Date: 15.FEB.2020 06:21:25

Highest Band Edge / Full RB



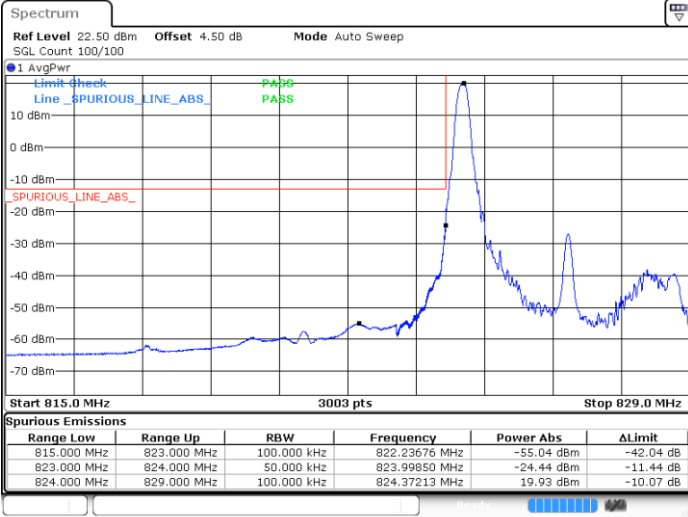
Date: 15.FEB.2020 06:27:08



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



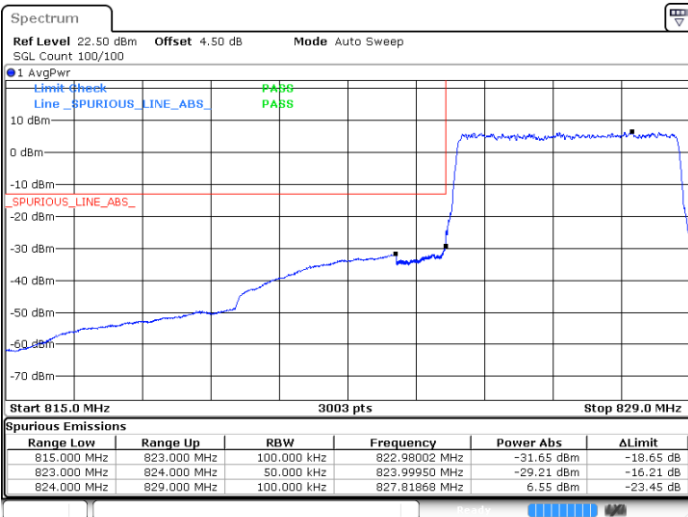
Date: 15.FEB.2020 05:48:52



Date: 15.FEB.2020 05:59:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.FEB.2020 05:42:46



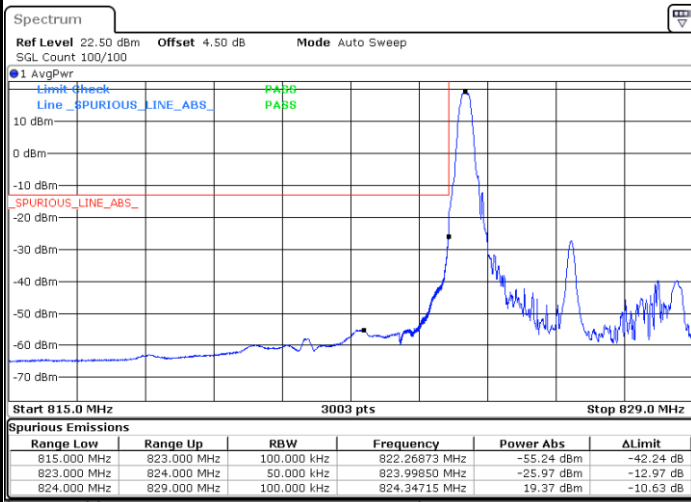
Date: 15.FEB.2020 05:54:12





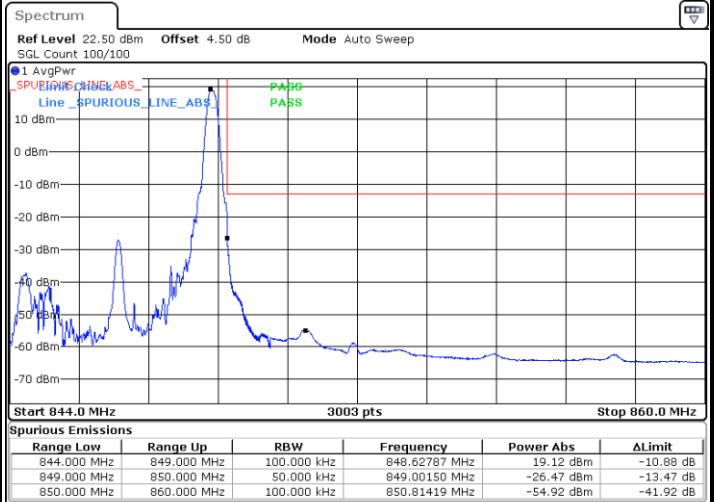
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



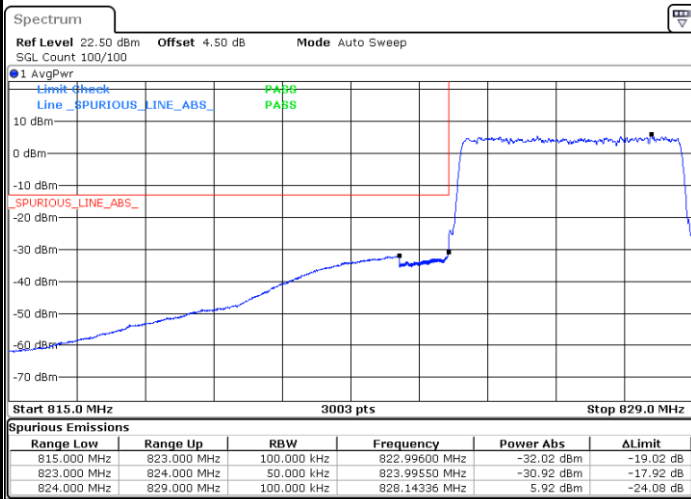
Date: 15.FEB.2020 05:46:20

Highest Band Edge / 1 RB



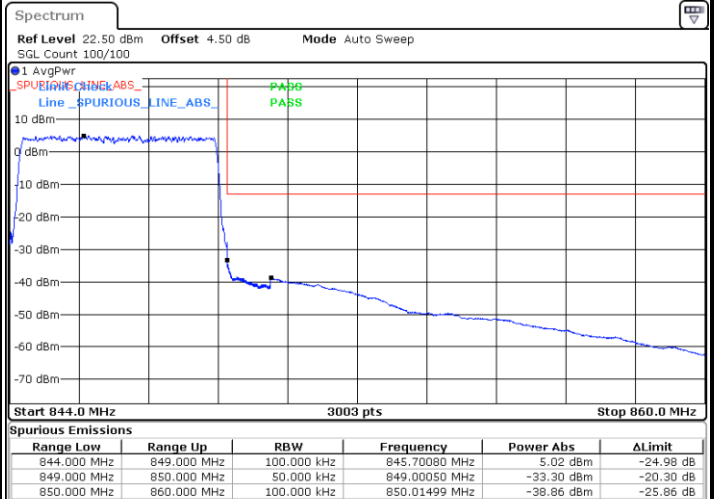
Date: 15.FEB.2020 05:57:47

Lowest Band Edge / Full RB



Date: 15.FEB.2020 05:44:43

Highest Band Edge / Full RB

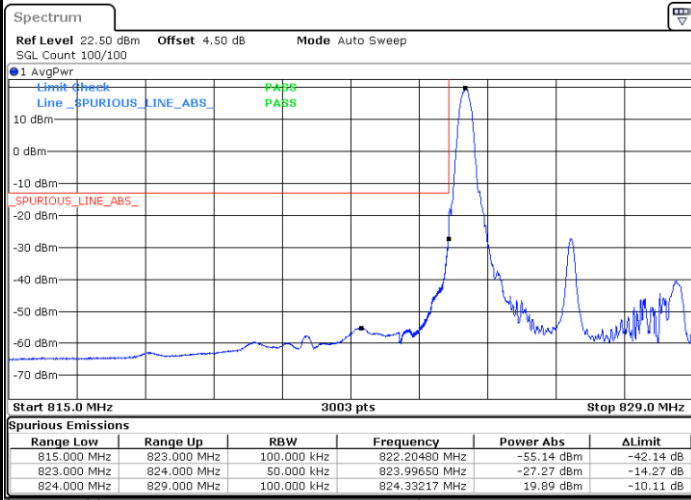


Date: 15.FEB.2020 05:56:09



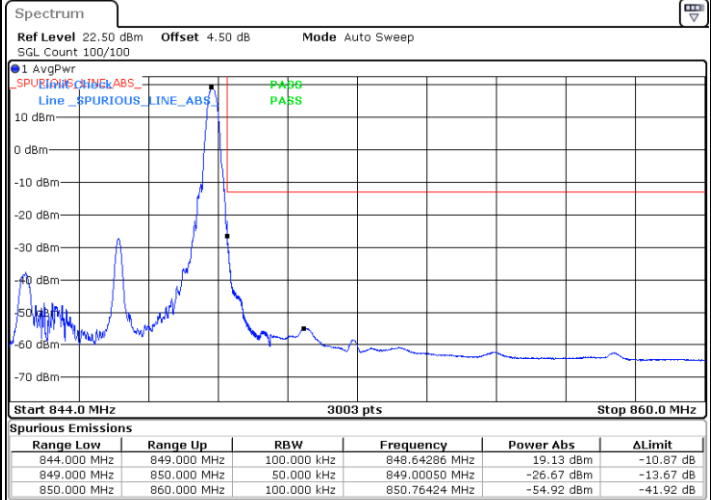
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



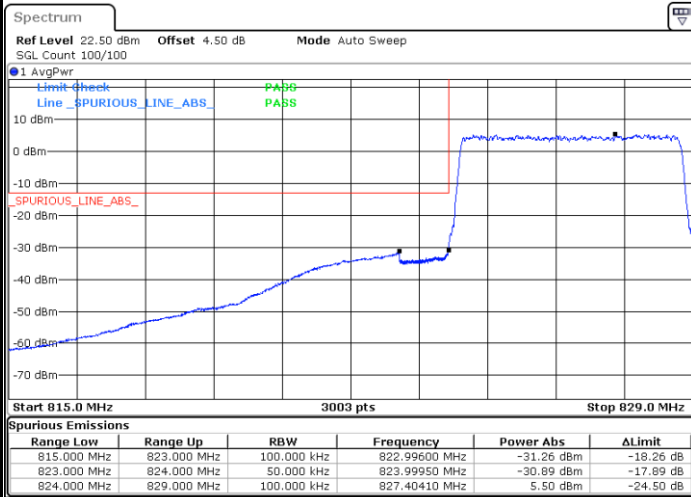
Date: 15.FEB.2020 06:33:14

Highest Band Edge / 1 RB



Date: 15.FEB.2020 06:38:57

Lowest Band Edge / Full RB



Date: 15.FEB.2020 06:31:37

Highest Band Edge / Full RB

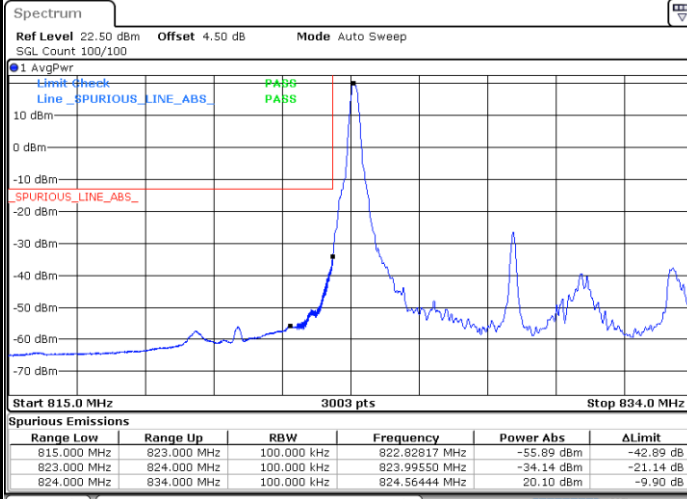


Date: 15.FEB.2020 06:37:20



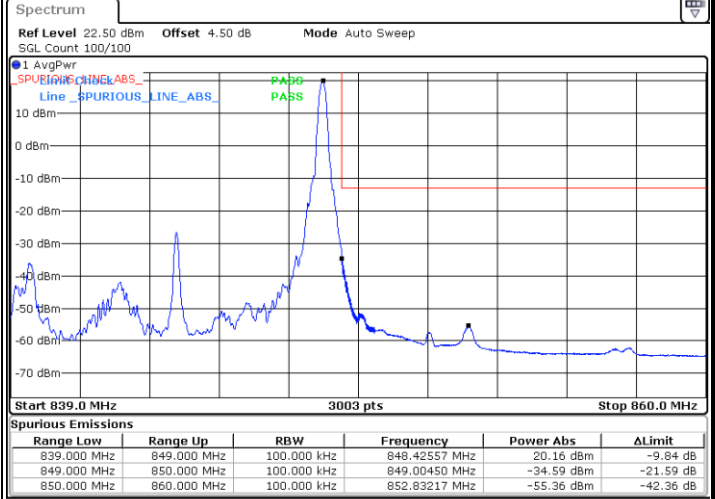
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



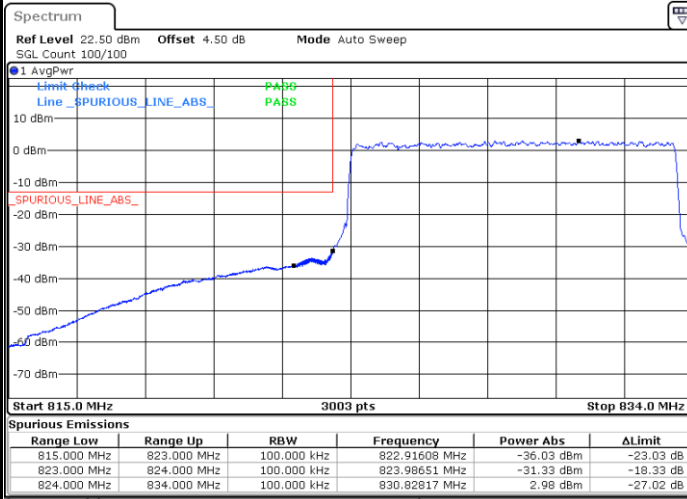
Date: 15.FEB.2020 04:58:40

Highest Band Edge / 1 RB



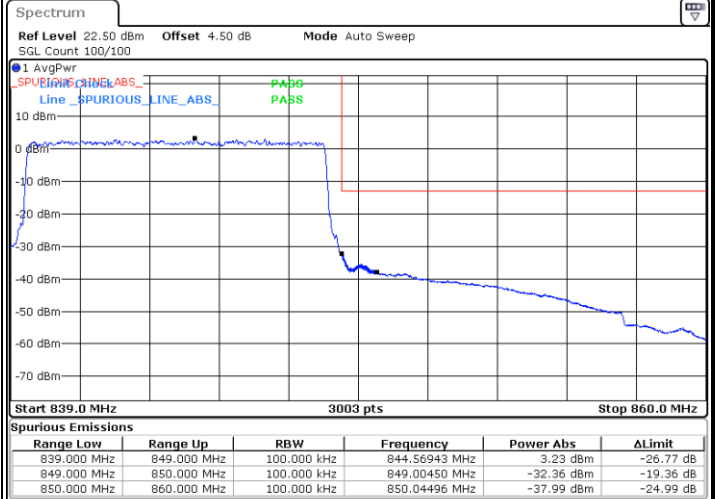
Date: 15.FEB.2020 05:10:06

Lowest Band Edge / Full RB



Date: 15.FEB.2020 05:01:55

Highest Band Edge / Full RB

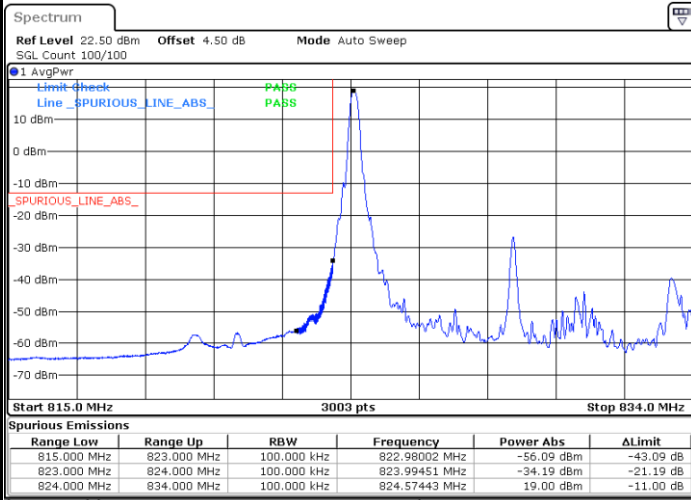


Date: 15.FEB.2020 05:13:21



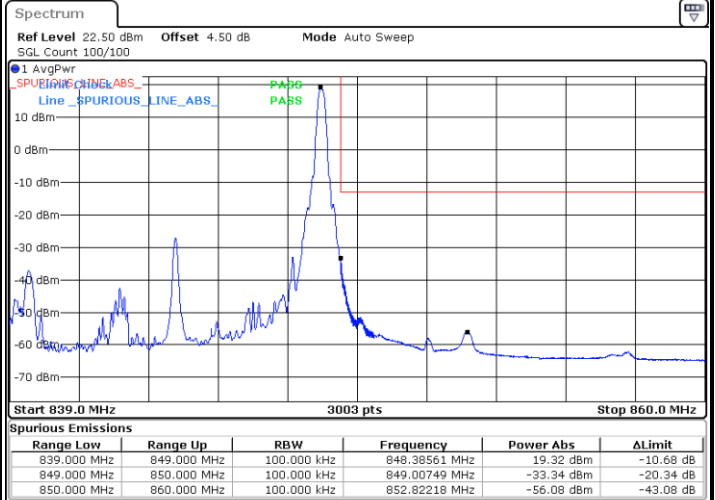
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



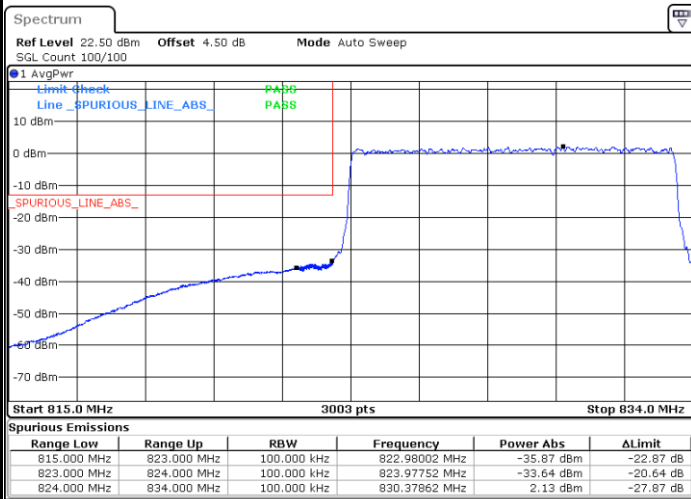
Date: 15.FEB.2020 05:00:18

Highest Band Edge / 1 RB



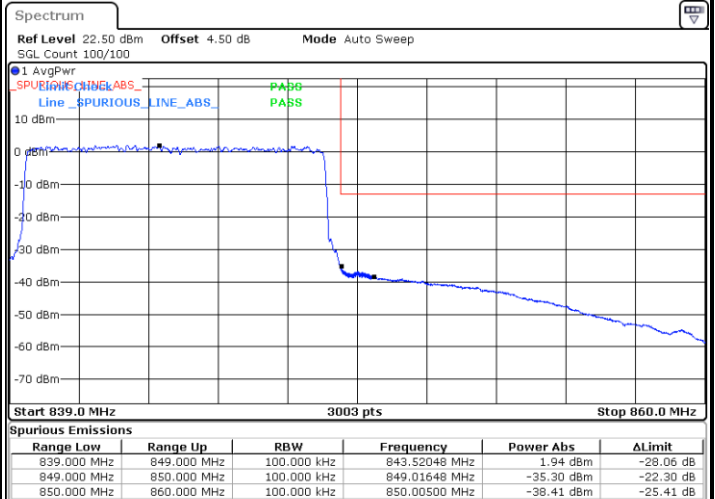
Date: 15.FEB.2020 05:11:44

Lowest Band Edge / Full RB



Date: 15.FEB.2020 05:03:32

Highest Band Edge / Full RB

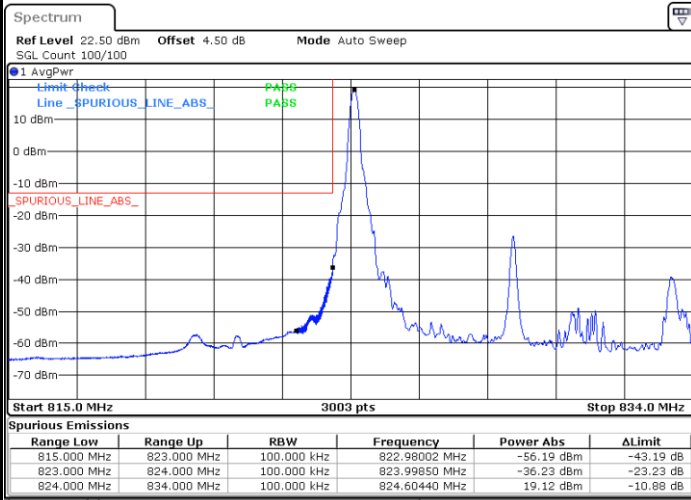


Date: 15.FEB.2020 05:14:58



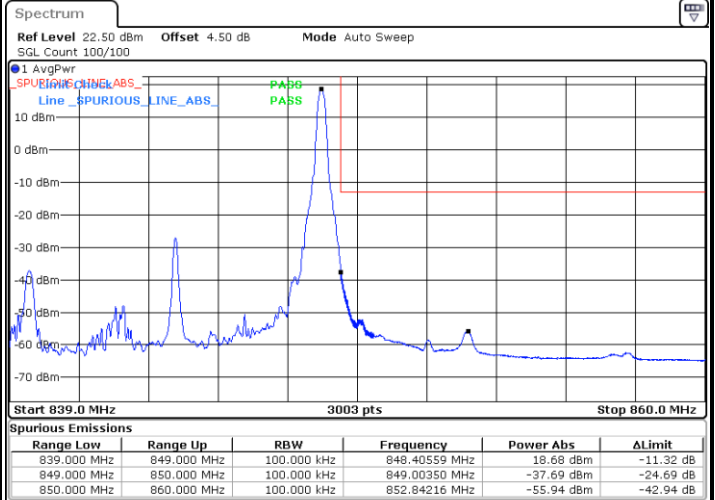
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



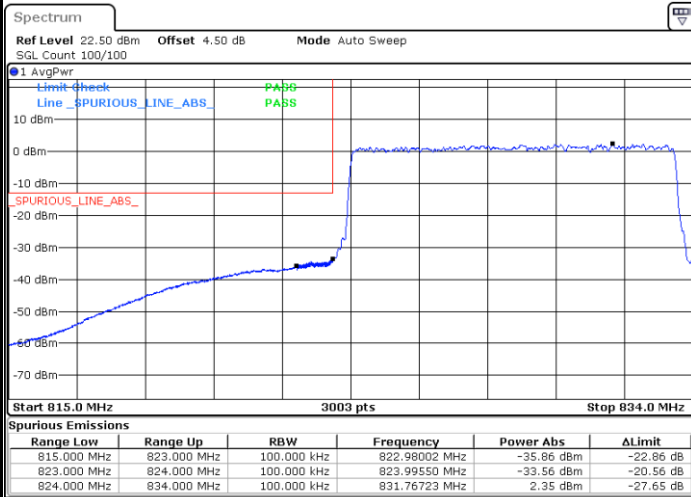
Date: 15.FEB.2020 06:43:26

Highest Band Edge / 1 RB



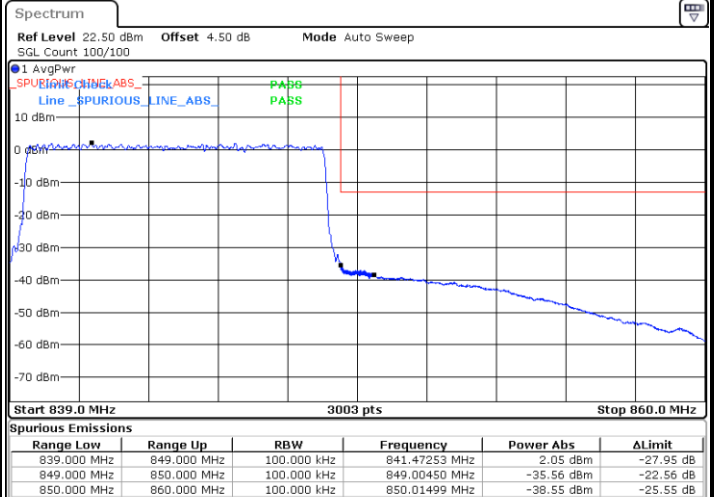
Date: 15.FEB.2020 06:49:10

Lowest Band Edge / Full RB



Date: 15.FEB.2020 06:41:49

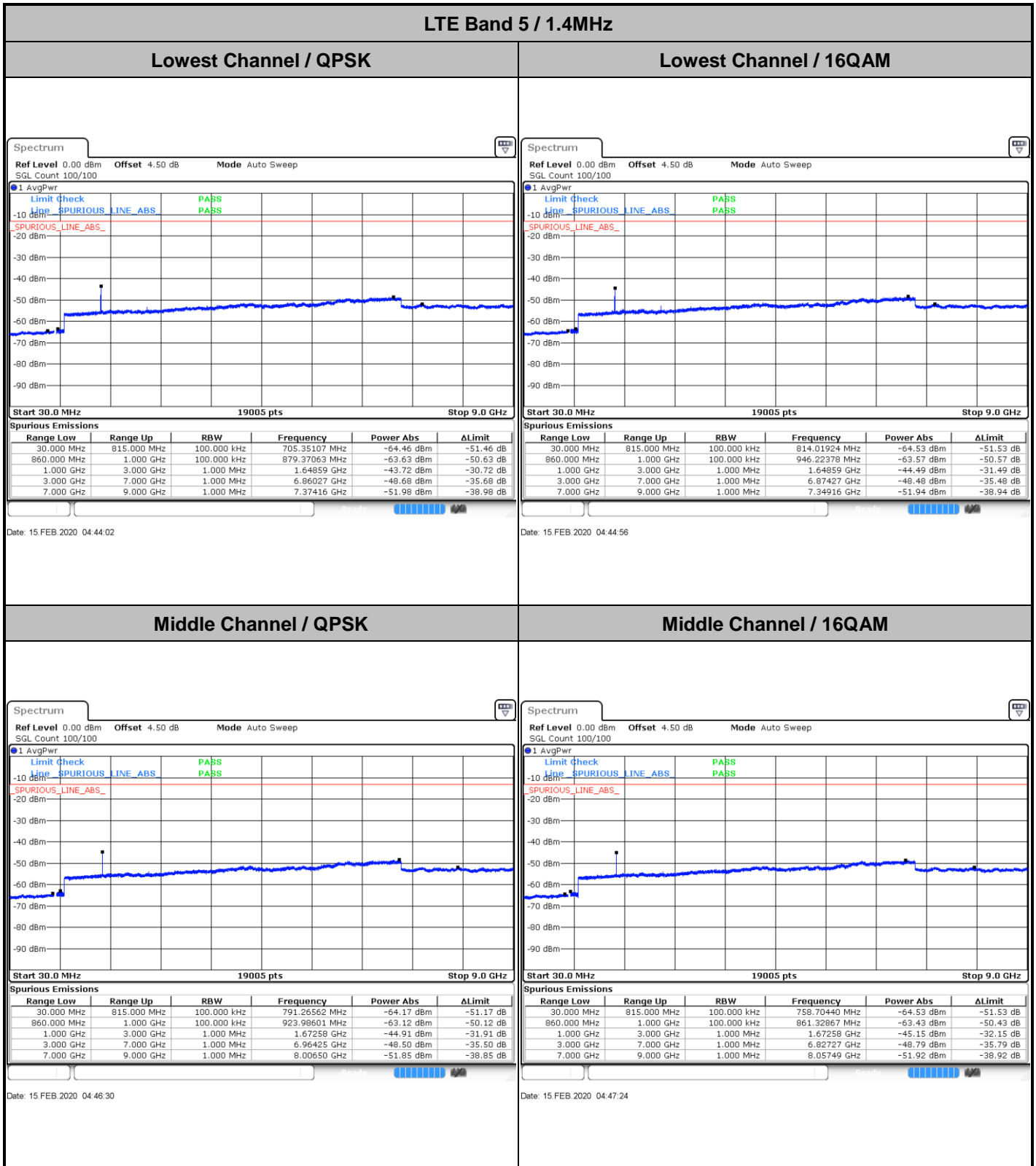
Highest Band Edge / Full RB



Date: 15.FEB.2020 06:47:32



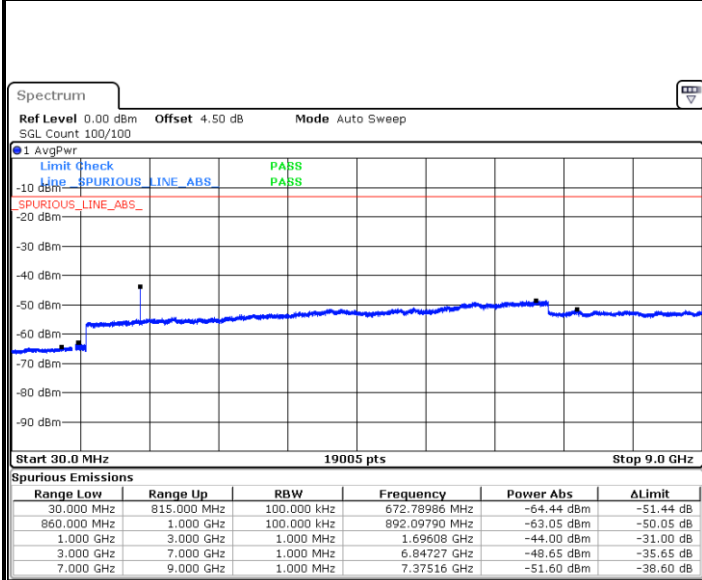
# Conducted Spurious Emission





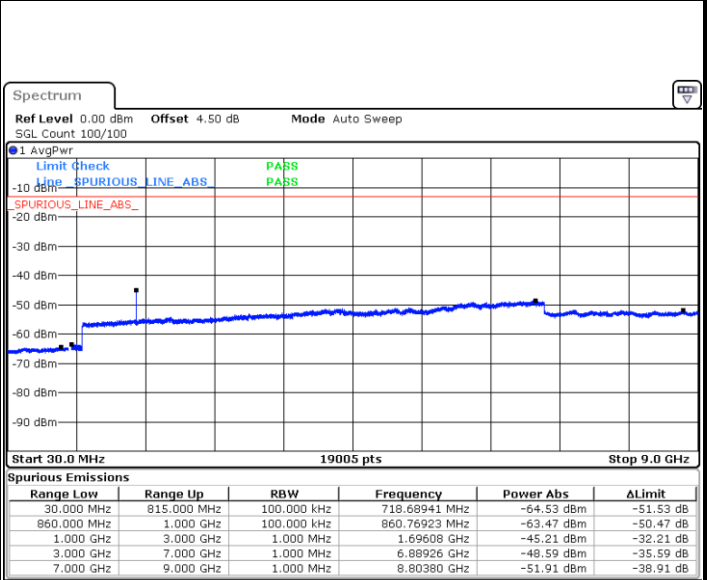
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 15.FEB.2020 04:55:28

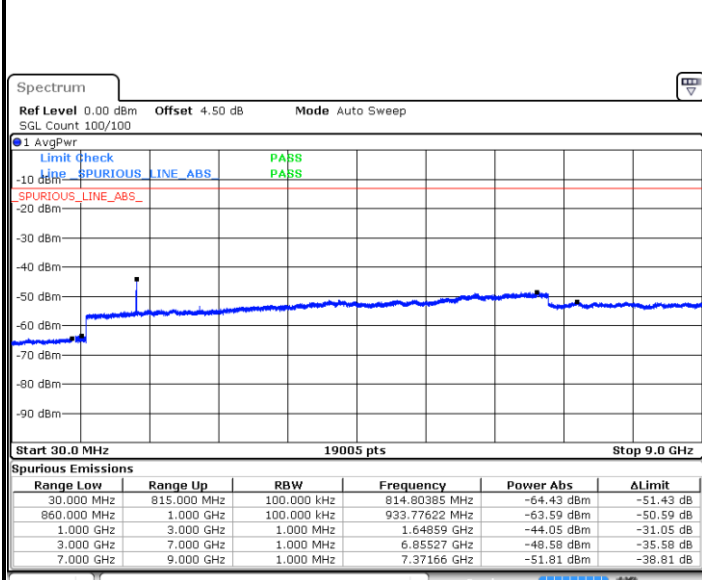
Highest Channel / 16QAM



Date: 15.FEB.2020 04:56:22

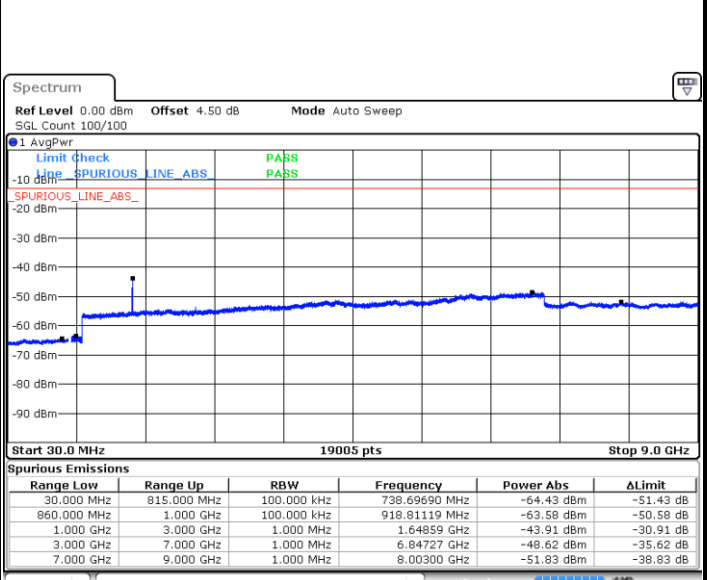
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 15.FEB.2020 05:25:29

Lowest Channel / 16QAM



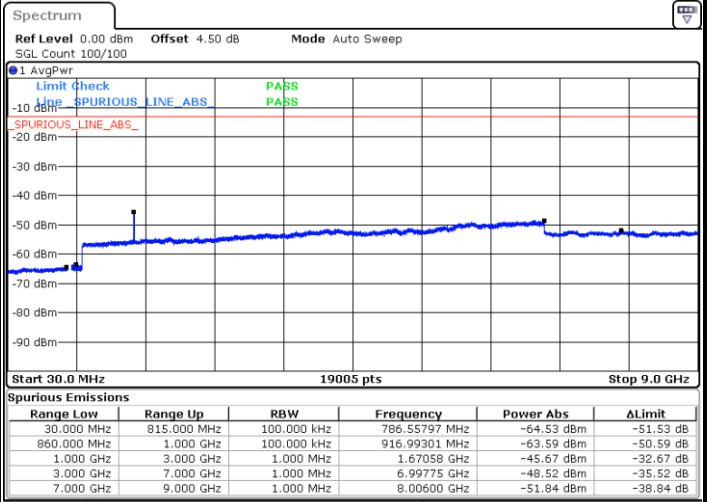
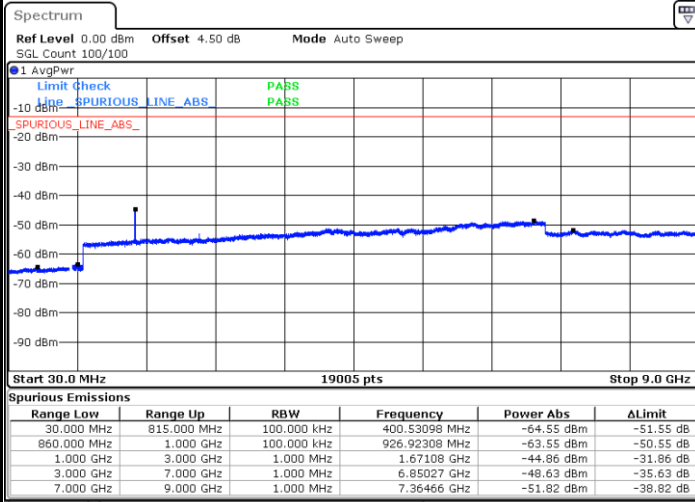
Date: 15.FEB.2020 05:26:23



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

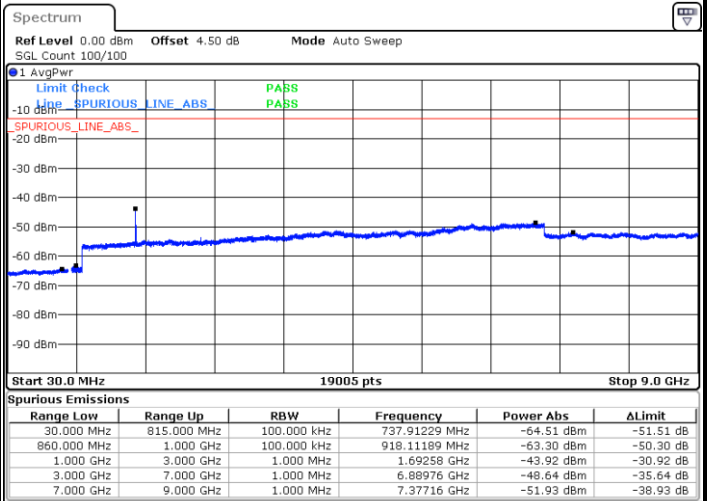
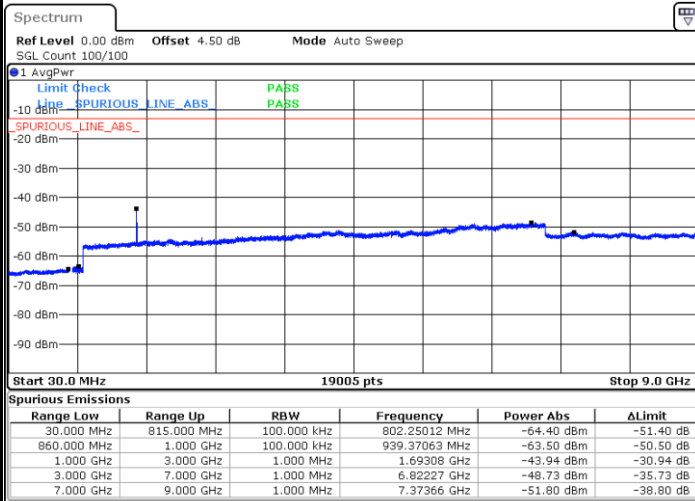


Date: 15.FEB.2020 05:28:12

Date: 15.FEB.2020 05:27:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.FEB.2020 05:37:33

Date: 15.FEB.2020 05:32:21

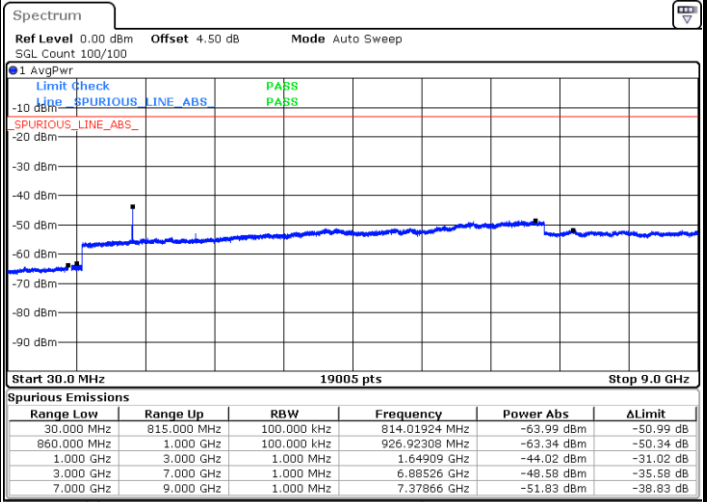
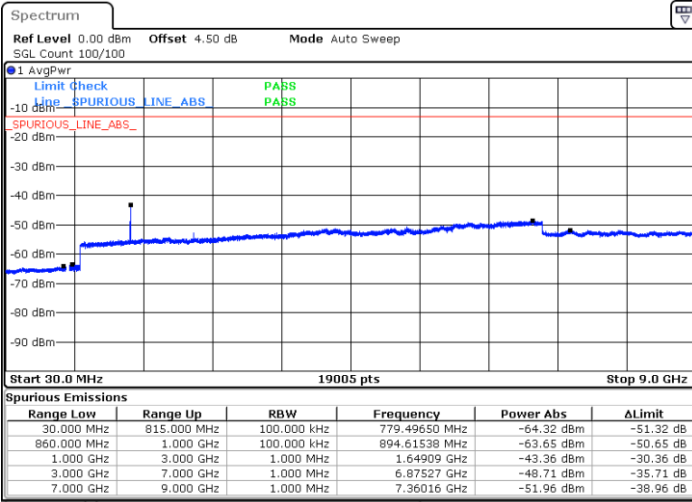




LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

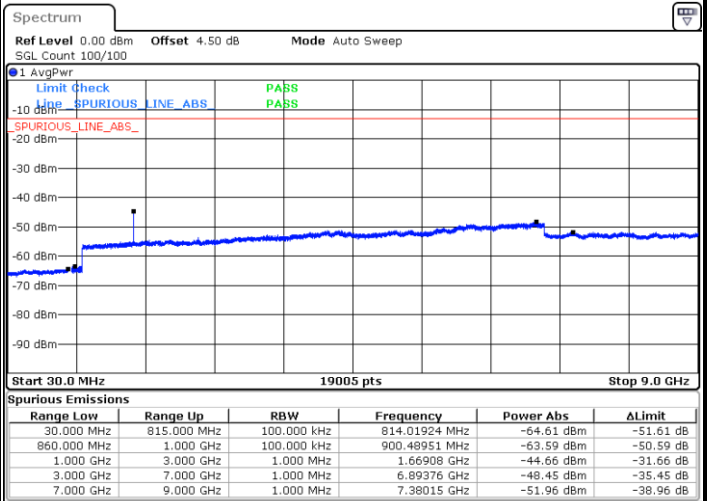
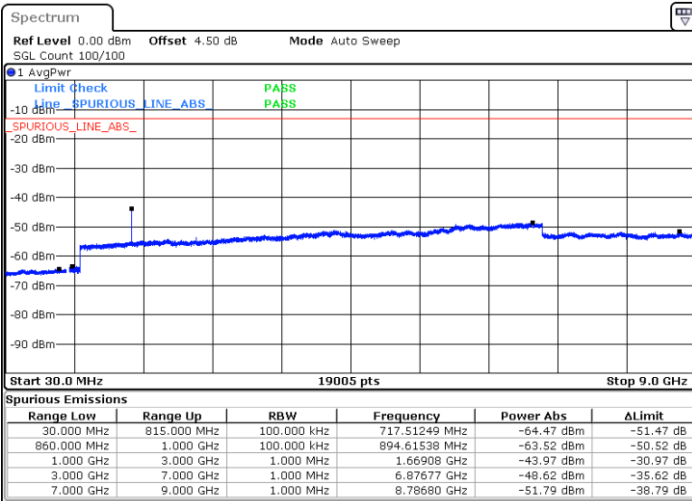


Date: 15.FEB.2020 05:49:45

Date: 15.FEB.2020 05:47:14

Middle Channel / QPSK

Middle Channel / 16QAM



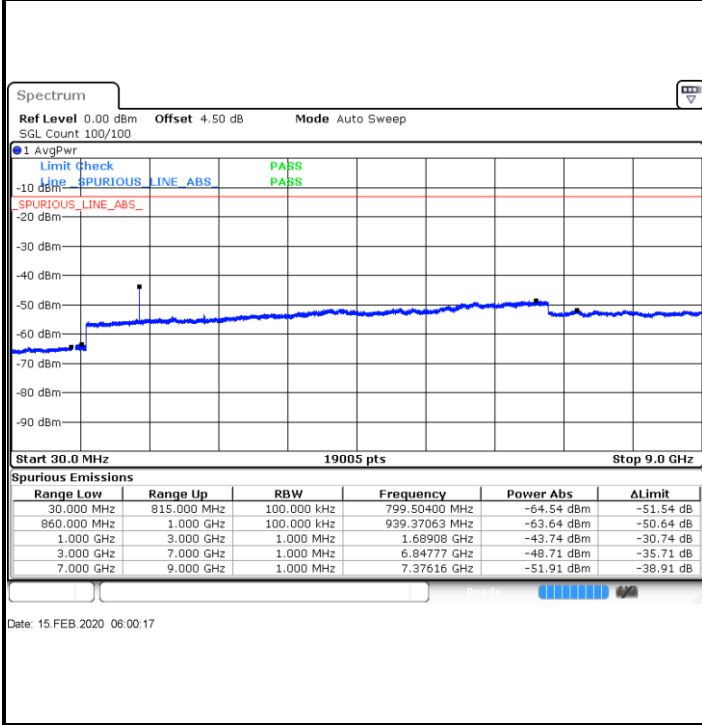
Date: 15.FEB.2020 05:52:14

Date: 15.FEB.2020 05:51:19

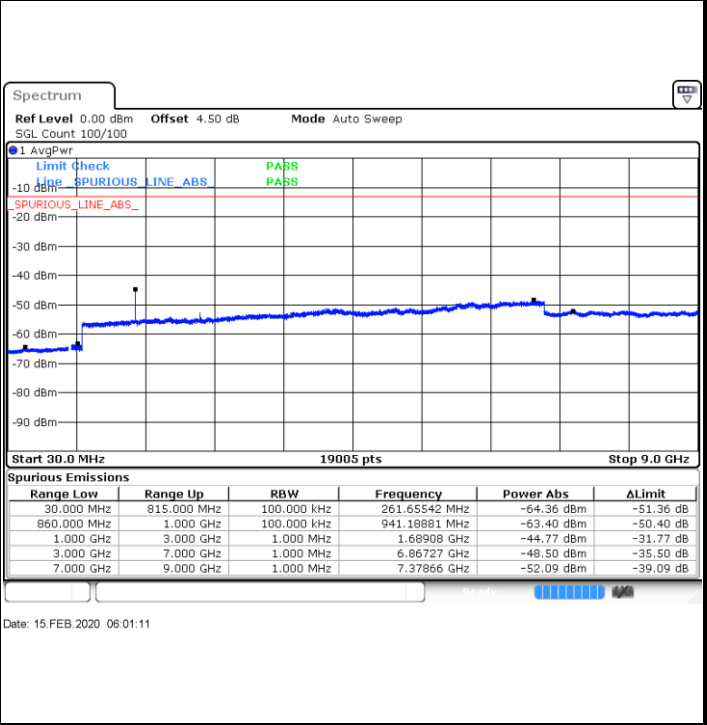


LTE Band 5 / 5MHz

Highest Channel / QPSK

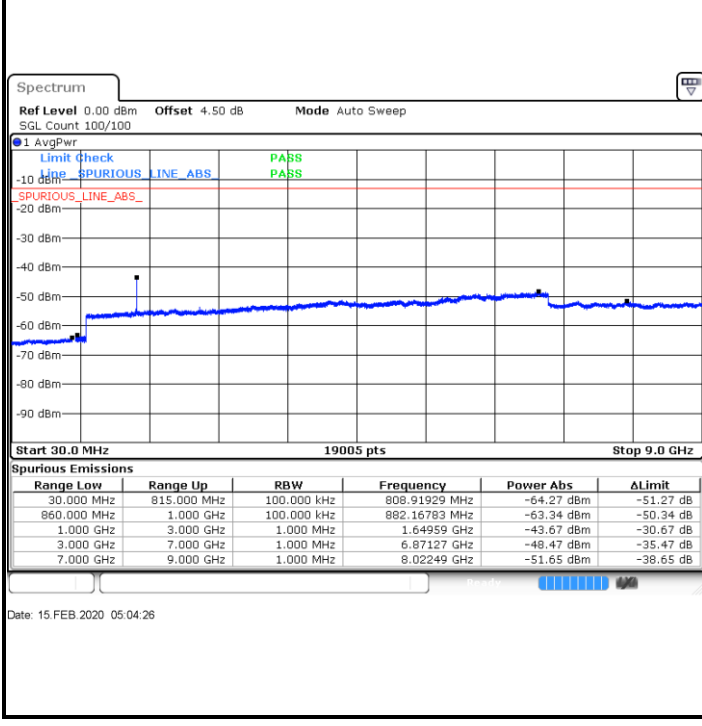


Highest Channel / 16QAM

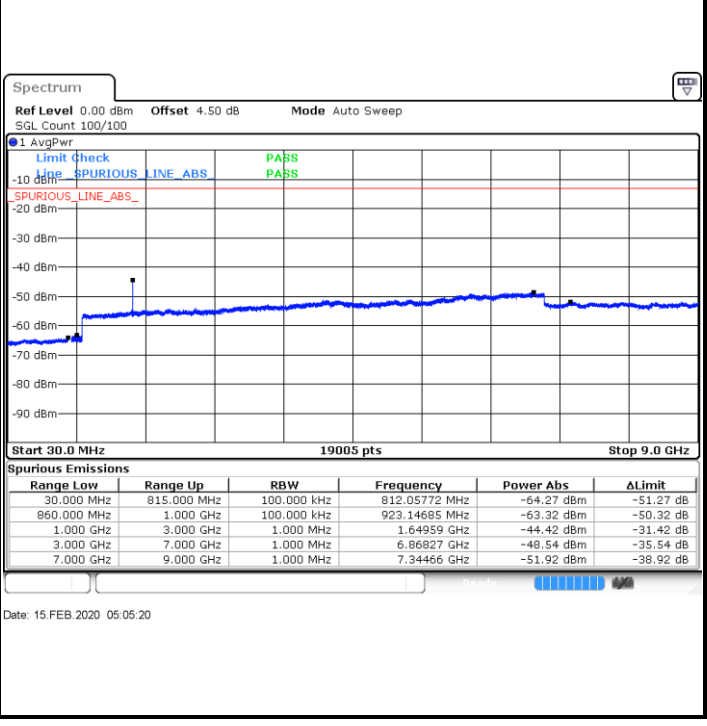


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

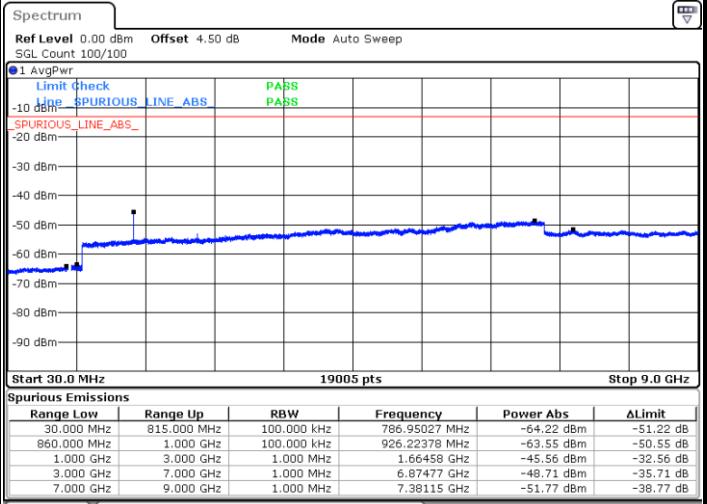
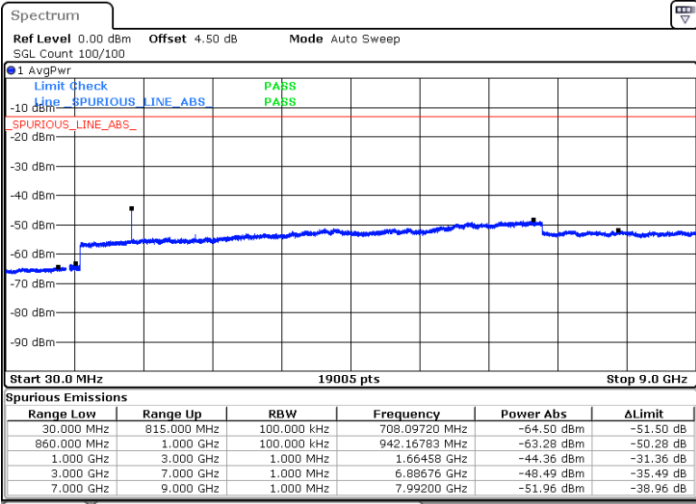




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

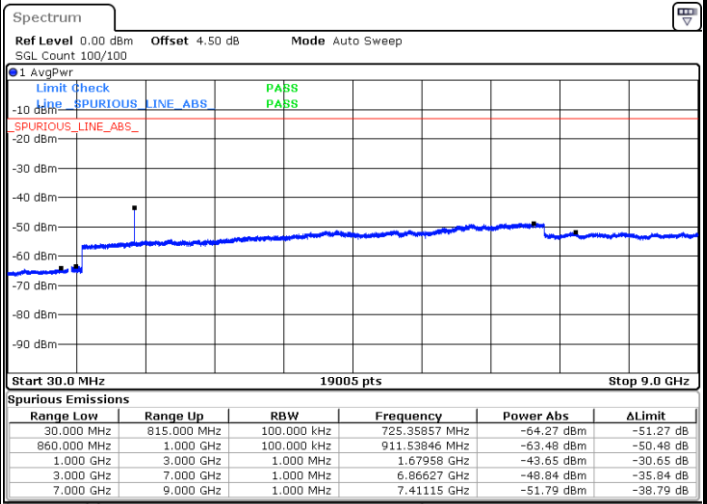
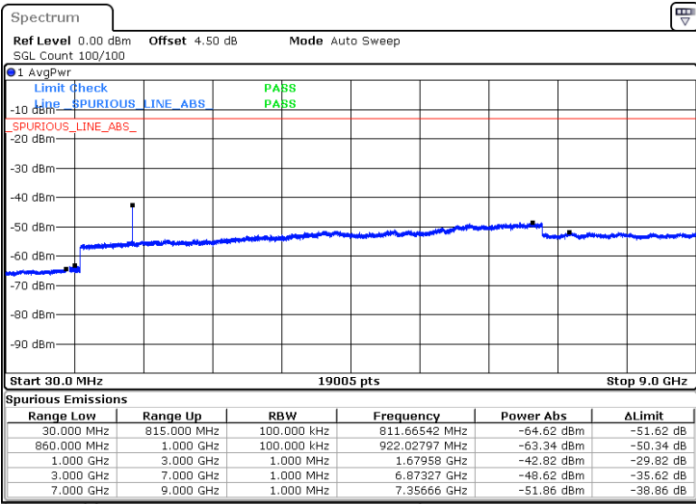


Date: 15.FEB.2020 05:06:54

Date: 15.FEB.2020 05:07:48

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.FEB.2020 05:15:52

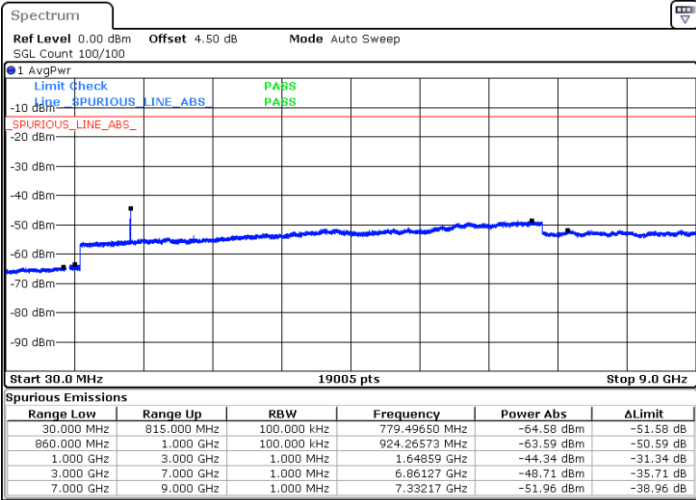
Date: 15.FEB.2020 05:16:46



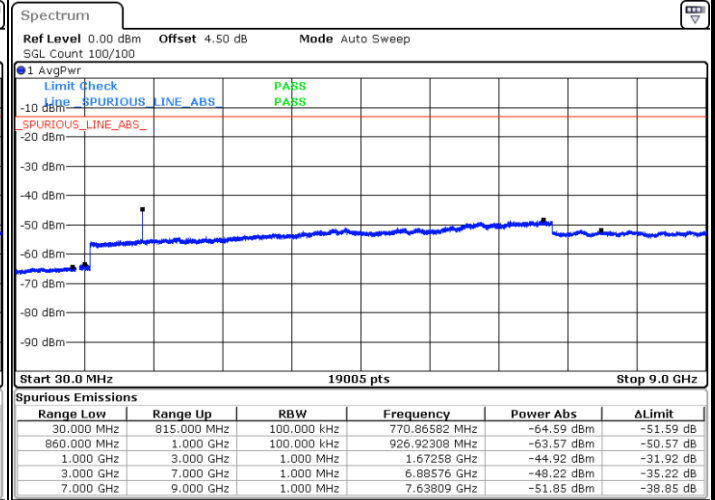
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

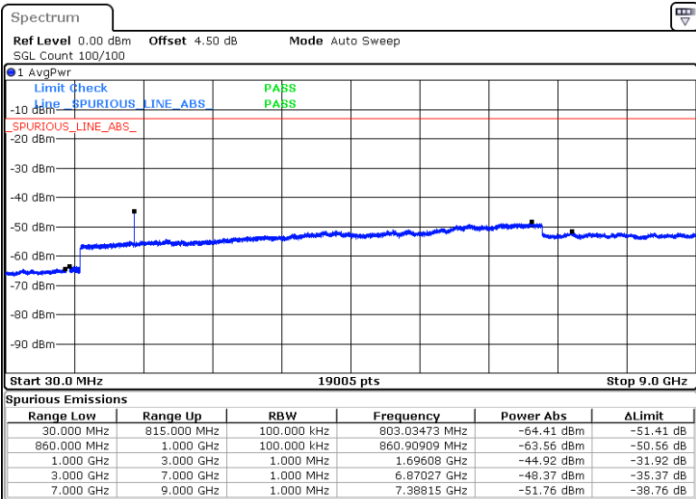


Date: 15.FEB.2020 06:13:44



Date: 15.FEB.2020 06:14:38

Highest Channel / 64QAM

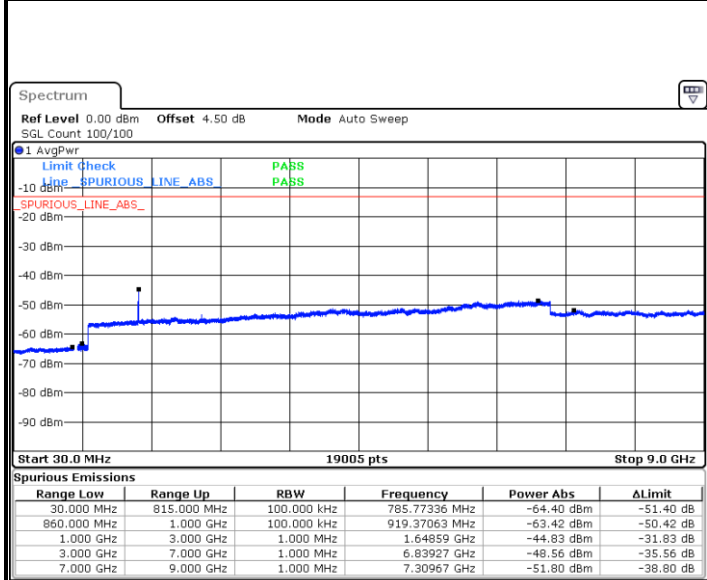


Date: 15.FEB.2020 06:19:27



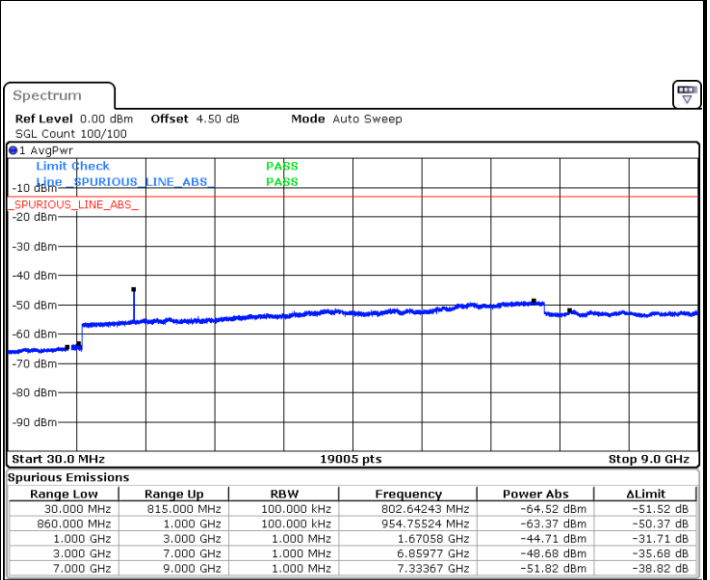
**LTE Band 5 / 3MHz**

**Lowest Channel / 64QAM**



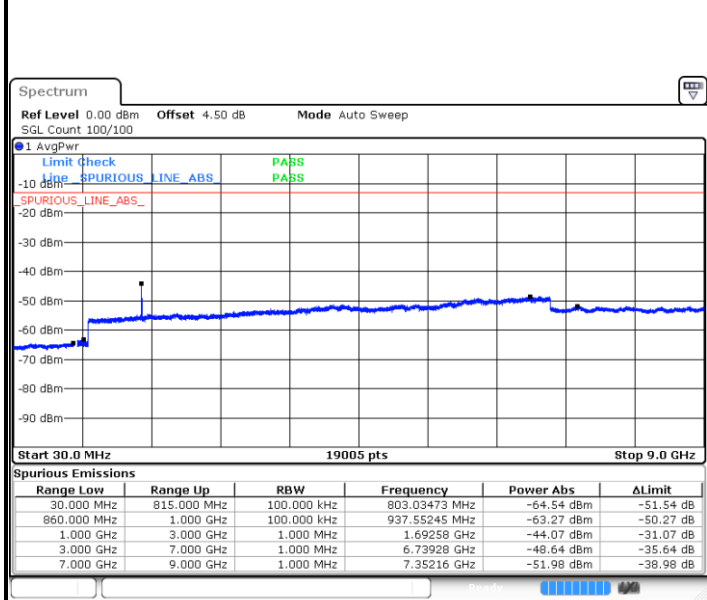
Date: 15.FEB.2020 06:23:56

**Middle Channel / 64QAM**



Date: 15.FEB.2020 06:24:50

**Highest Channel / 64QAM**



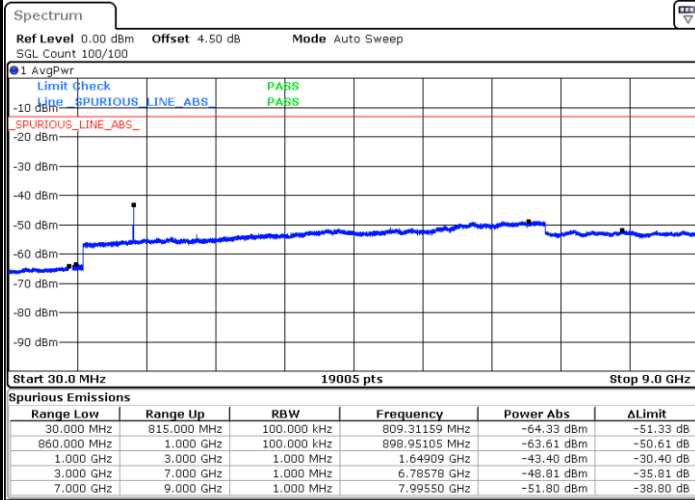
Date: 15.FEB.2020 06:29:39



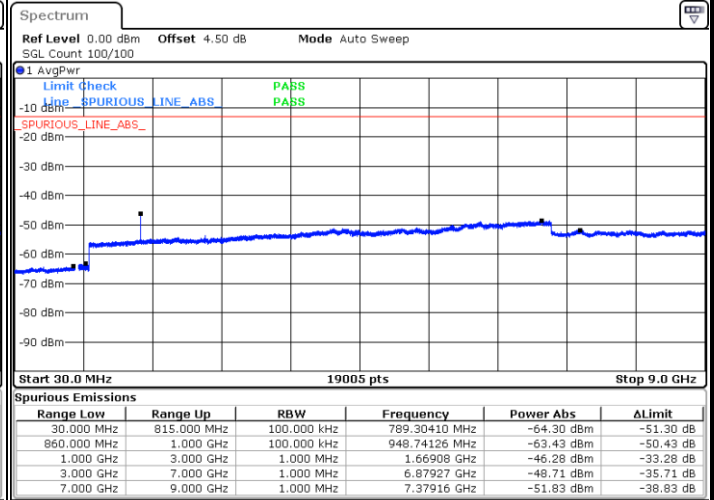
LTE Band 5 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

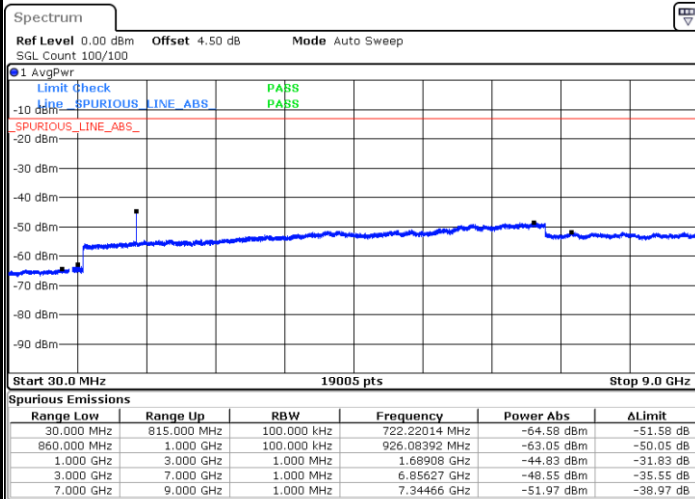


Date: 15.FEB.2020 06:34:08



Date: 15.FEB.2020 06:35:02

Highest Channel / 64QAM

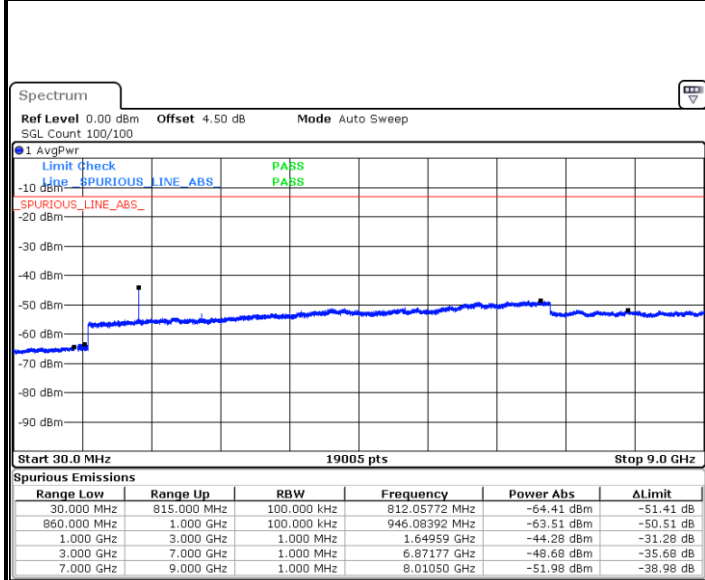


Date: 15.FEB.2020 06:39:51



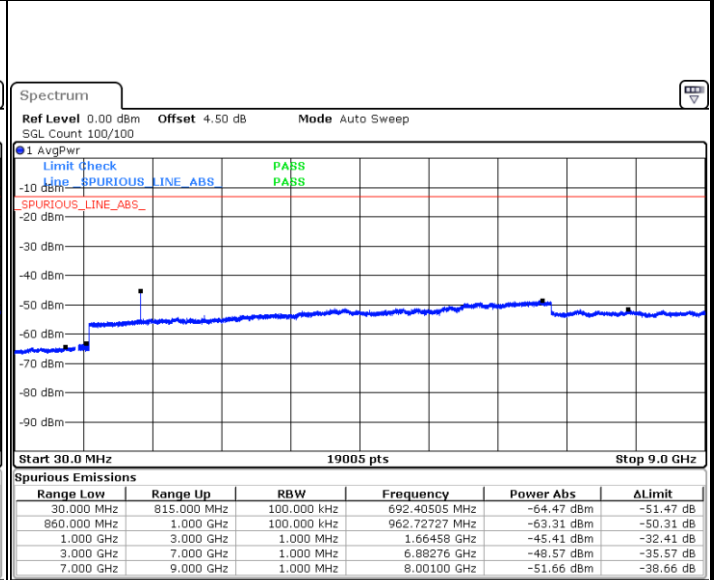
**LTE Band 5 / 10MHz**

**Lowest Channel / 64QAM**



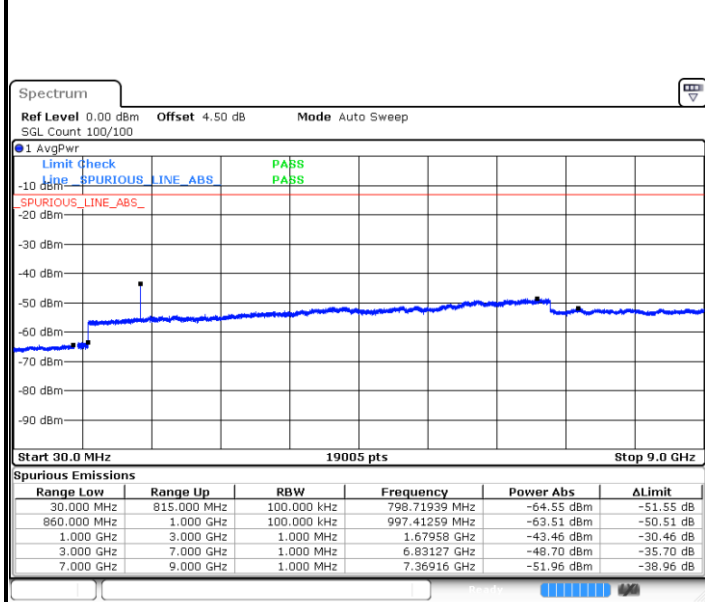
Date: 15.FEB.2020 06:44:20

**Middle Channel / 64QAM**



Date: 15.FEB.2020 06:45:14

**Highest Channel / 64QAM**



Date: 15.FEB.2020 06:50:03



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	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.





# LTE Band 7

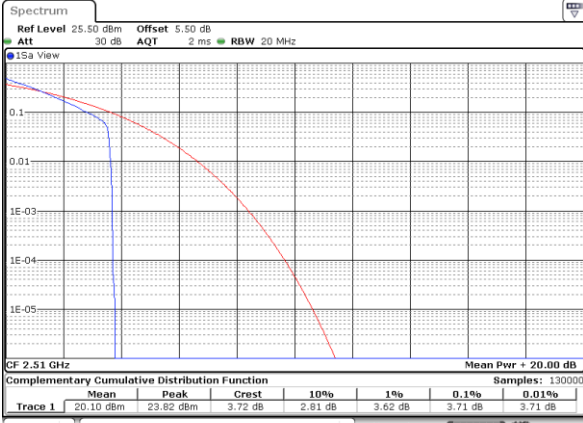
## Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	4.64	4.87	5.97	PASS
Middle CH	3.68	4.72	5.51	6.03	
Highest CH	3.62	4.52	5.22	5.97	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.19	5.97	-	-	PASS
Middle CH	5.36	6.03	-	-	
Highest CH	5.57	5.91	-	-	



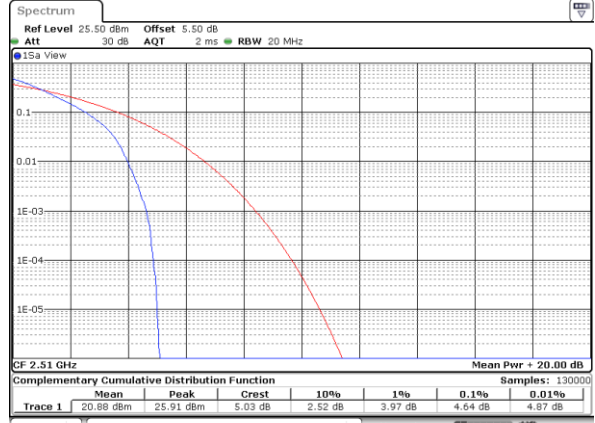
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



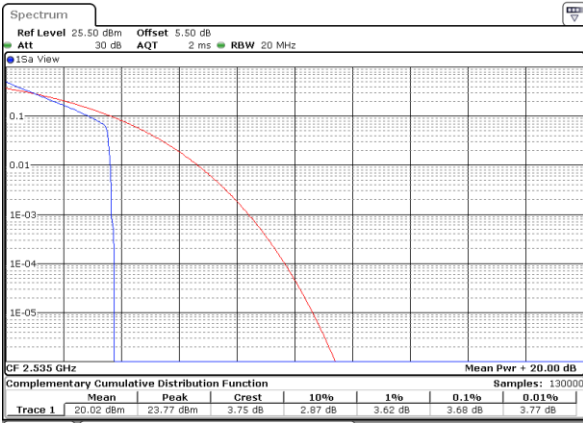
Date: 15 FEB 2020 08:16:08

Lowest Channel / Full RB



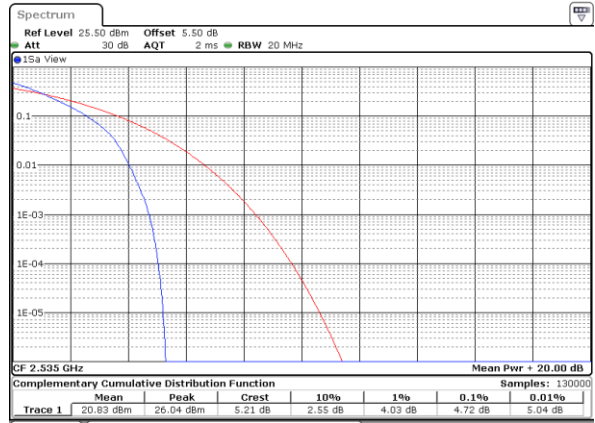
Date: 15 FEB 2020 08:16:15

Middle Channel / 1RB



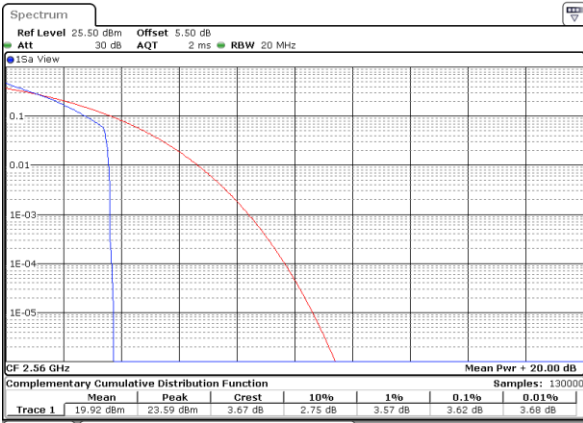
Date: 15 FEB 2020 08:16:51

Middle Channel / Full RB



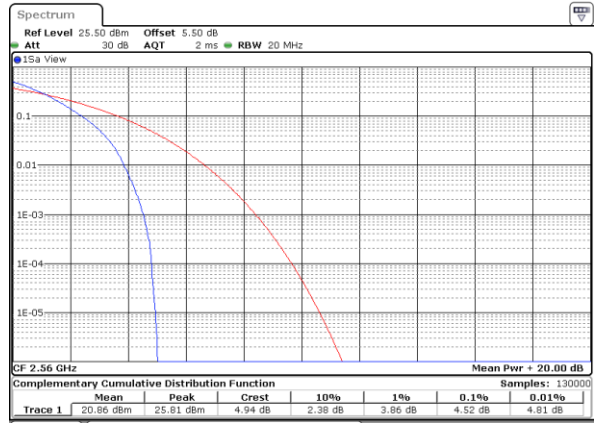
Date: 15 FEB 2020 08:16:42

Highest Channel / 1RB



Date: 15 FEB 2020 08:17:18

Highest Channel / Full RB

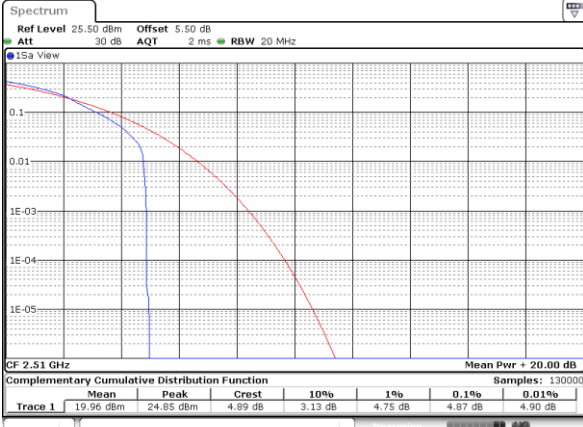


Date: 15 FEB 2020 08:17:27



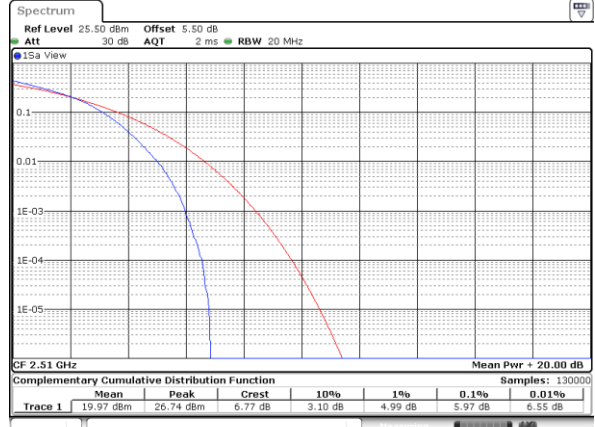
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



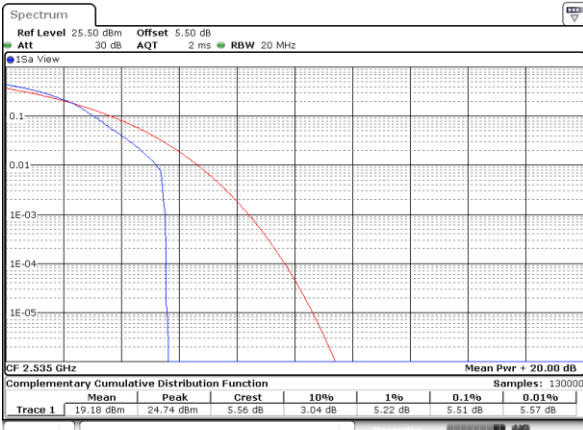
Date: 15 FEB 2020 08:15:55

Lowest Channel / Full RB



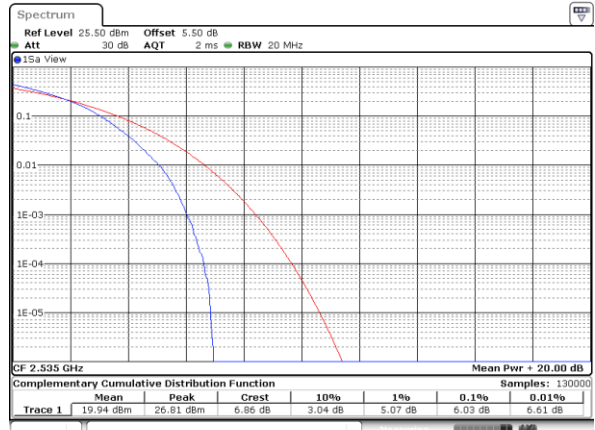
Date: 15 FEB 2020 08:16:24

Middle Channel / 1RB



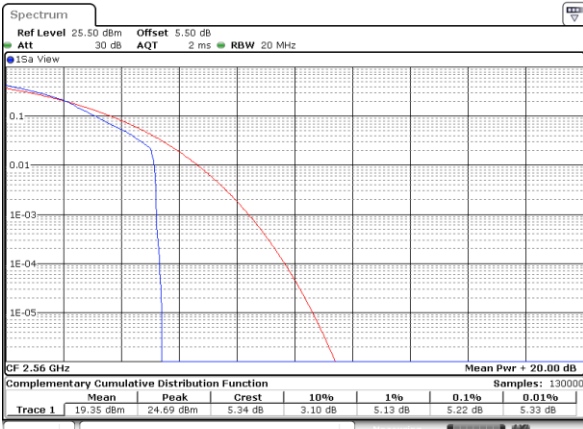
Date: 15 FEB 2020 08:17:01

Middle Channel / Full RB



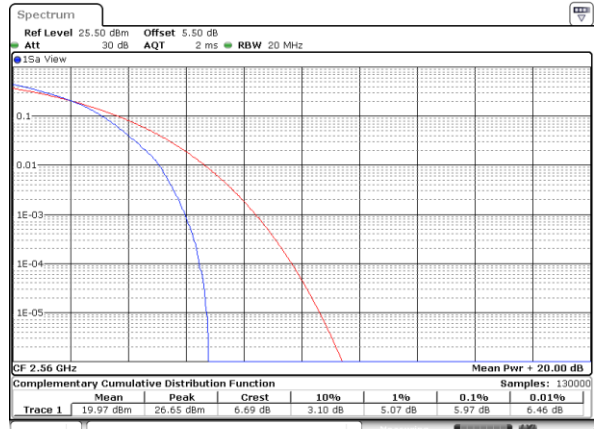
Date: 15 FEB 2020 08:16:33

Highest Channel / 1RB



Date: 15 FEB 2020 08:17:10

Highest Channel / Full RB



Date: 15 FEB 2020 08:17:35



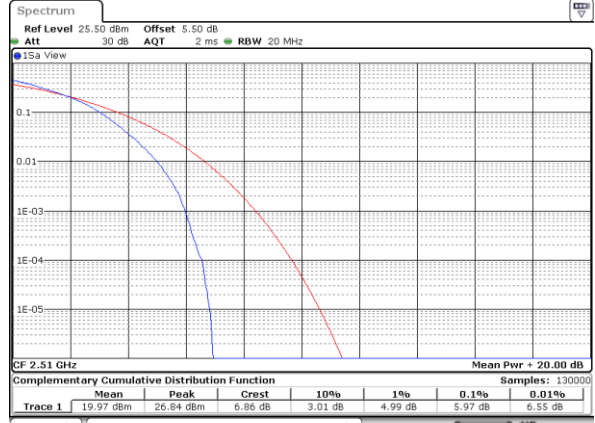
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



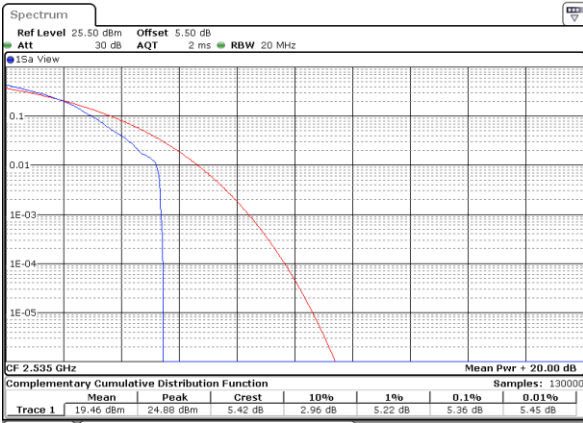
Date: 15 FEB 2020 09:01:35

Lowest Channel / Full RB



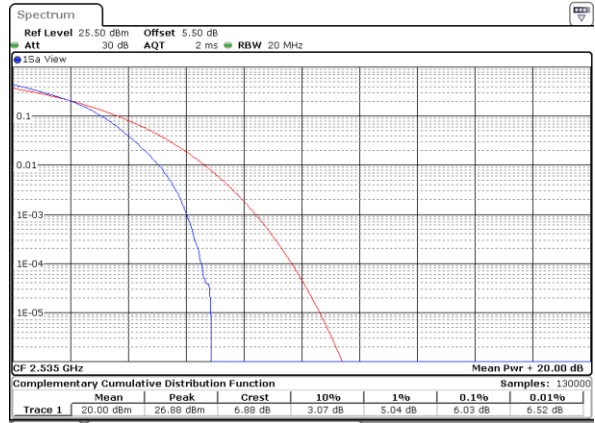
Date: 15 FEB 2020 09:01:45

Middle Channel / 1RB



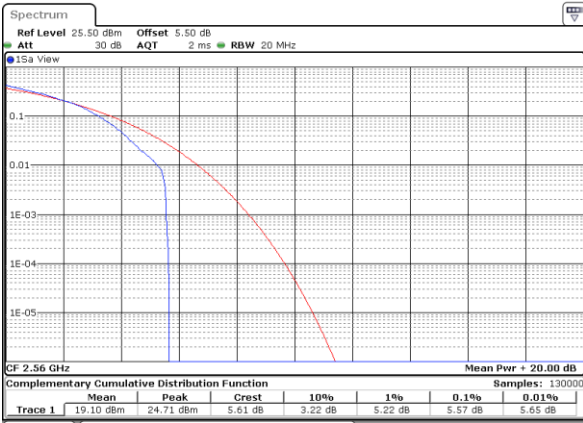
Date: 15 FEB 2020 09:02:14

Middle Channel / Full RB



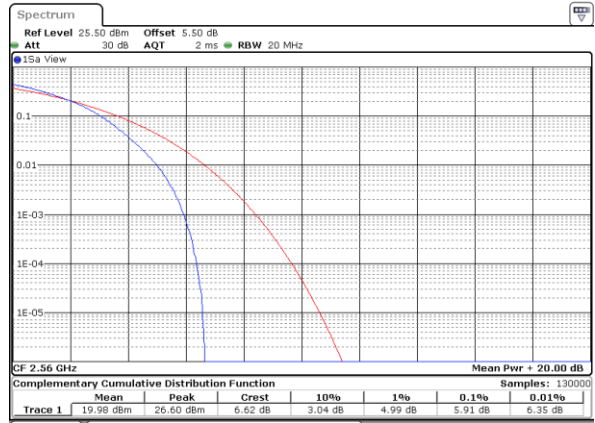
Date: 15 FEB 2020 09:02:04

Highest Channel / 1RB



Date: 15 FEB 2020 09:02:23

Highest Channel / Full RB



Date: 15 FEB 2020 09:02:32



**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	-	-	-	-	4.91	4.90	9.77	9.61	14.24	14.21	20.26	20.18
Middle CH	-	-	-	-	4.89	4.83	9.81	9.73	14.27	14.27	20.14	20.34
Highest CH	-	-	-	-	4.95	4.88	9.75	9.85	14.42	14.51	20.06	20.06
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	9.85	-	14.39	-	20.26	-
Middle CH	-	-	-	-	4.90	-	9.75	-	14.33	-	20.06	-
Highest CH	-	-	-	-	4.89	-	9.89	-	14.30	-	20.14	-