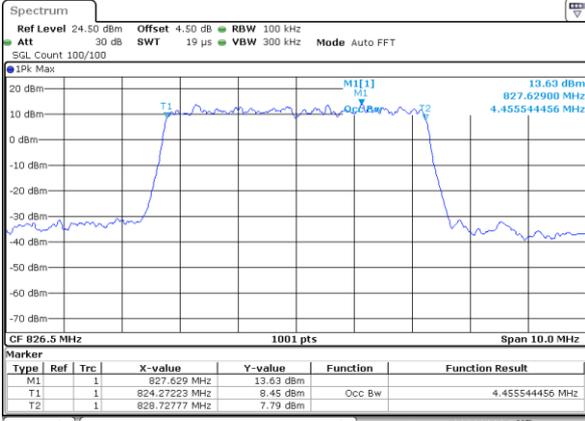




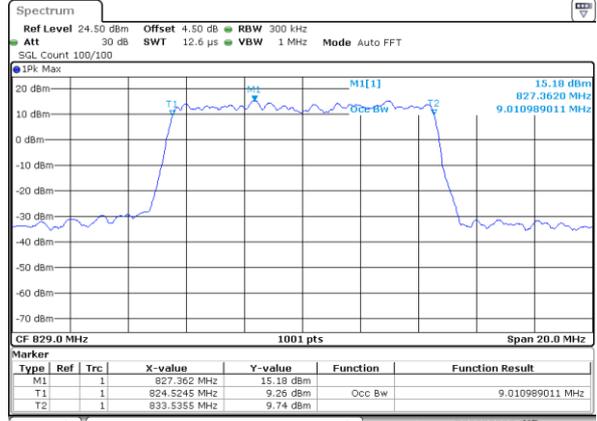
LTE Band 5

Lowest Channel / 5MHz / 64QAM



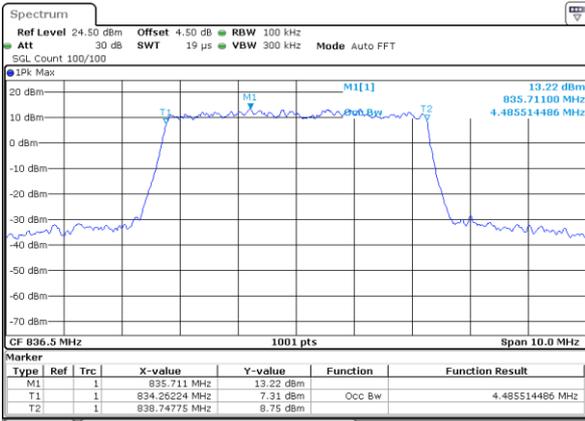
Date: 13 JUN 2020 12:54:53

Lowest Channel / 10MHz / 64QAM



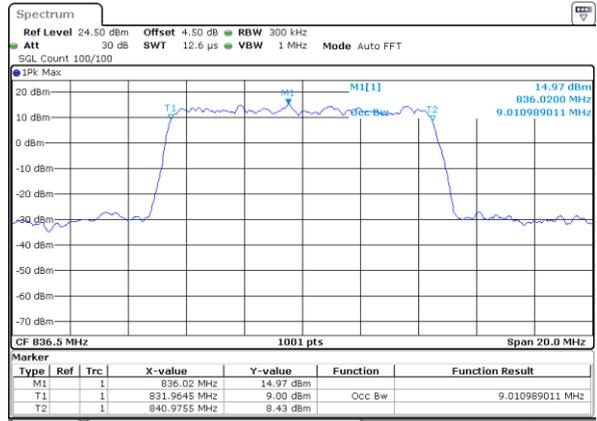
Date: 13 JUN 2020 13:05:21

Middle Channel / 5MHz / 64QAM



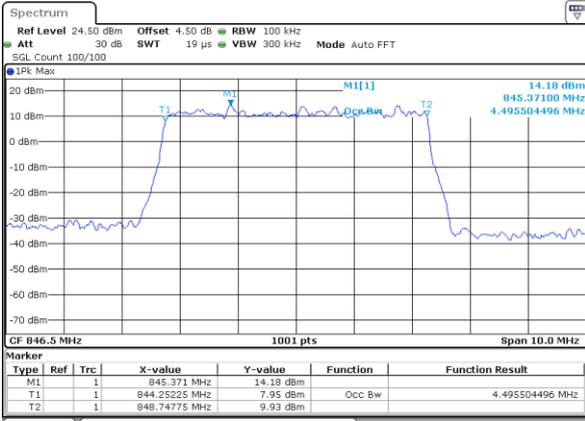
Date: 13 JUN 2020 13:00:23

Middle Channel / 10MHz / 64QAM



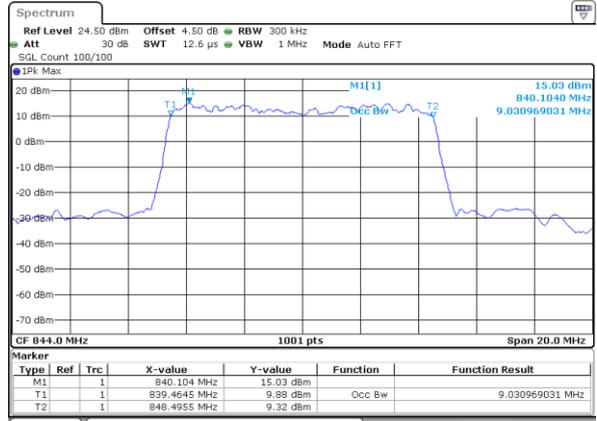
Date: 13 JUN 2020 13:10:50

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2020 13:00:43

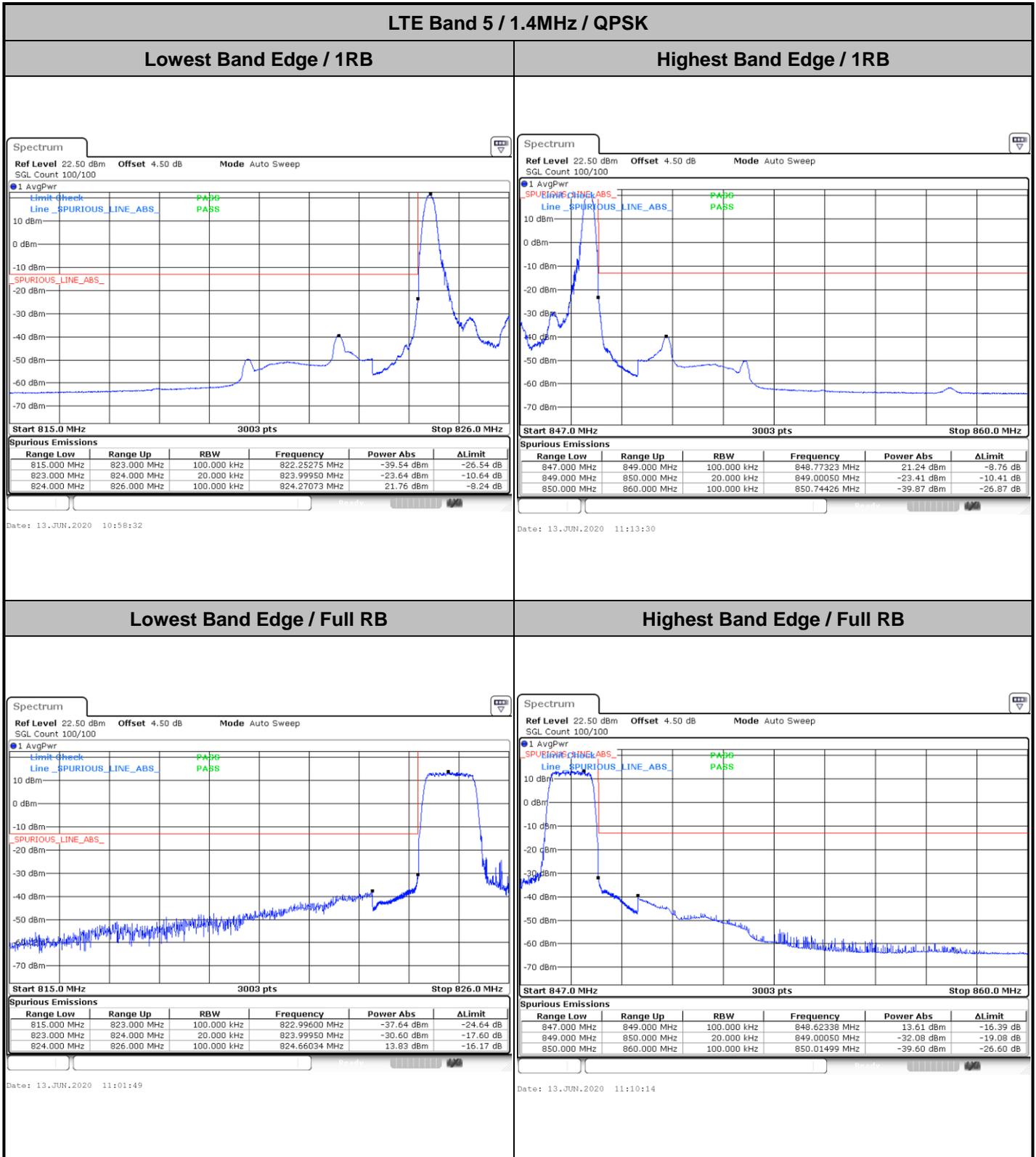
Highest Channel / 10MHz / 64QAM



Date: 13 JUN 2020 13:11:11



Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



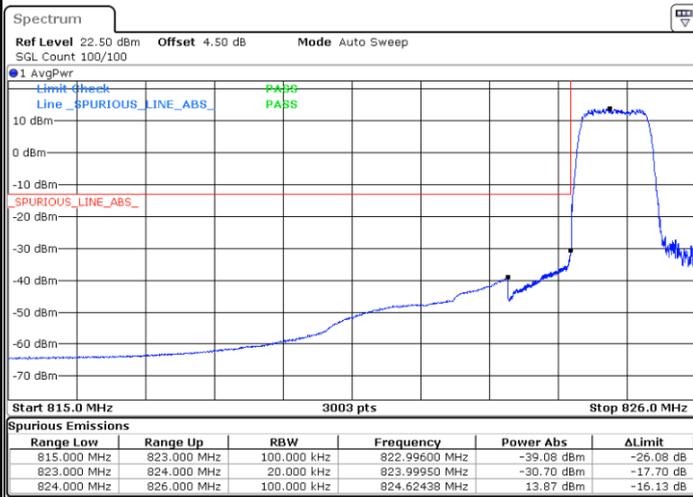
Date: 13.JUN.2020 11:00:10

Highest Band Edge / 1 RB



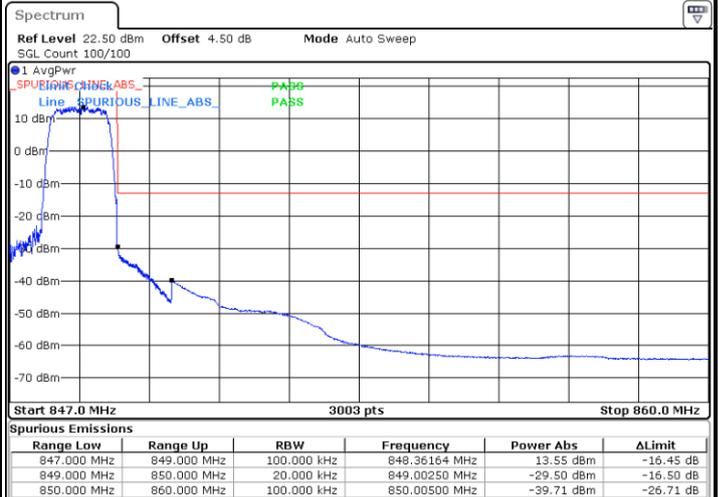
Date: 13.JUN.2020 11:15:08

Lowest Band Edge / Full RB



Date: 13.JUN.2020 11:03:28

Highest Band Edge / Full RB



Date: 13.JUN.2020 11:11:52



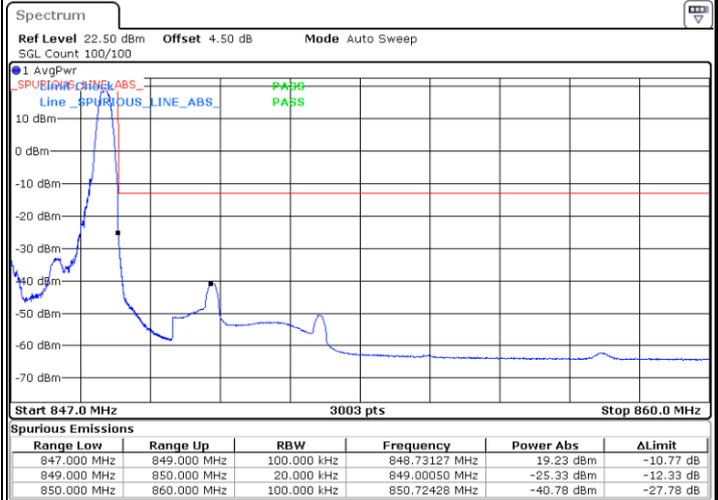
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 13.JUN.2020 12:37:33

Highest Band Edge / 1 RB



Date: 13.JUN.2020 12:43:23

Lowest Band Edge / Full RB



Date: 13.JUN.2020 13:24:38

Highest Band Edge / Full RB

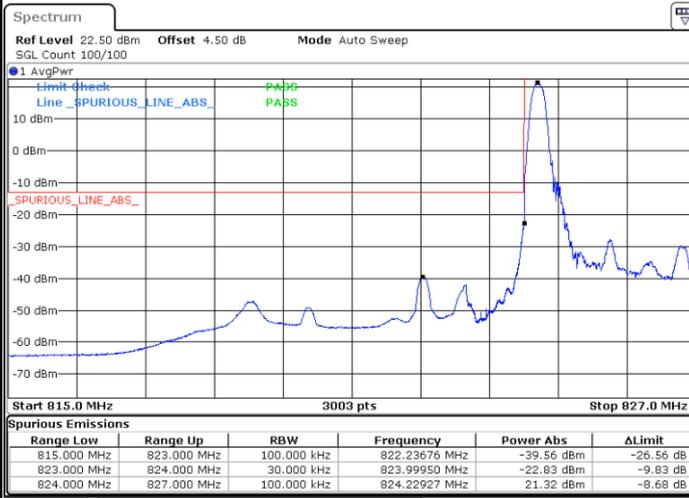


Date: 13.JUN.2020 12:41:45



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



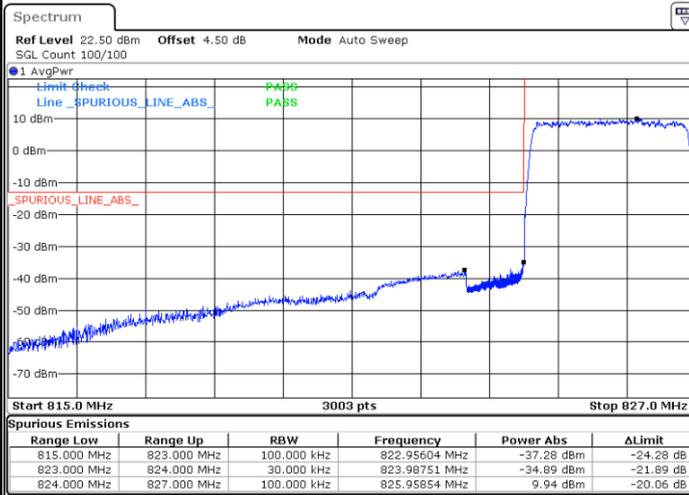
Date: 13.JUN.2020 11:19:21

Highest Band Edge / 1 RB



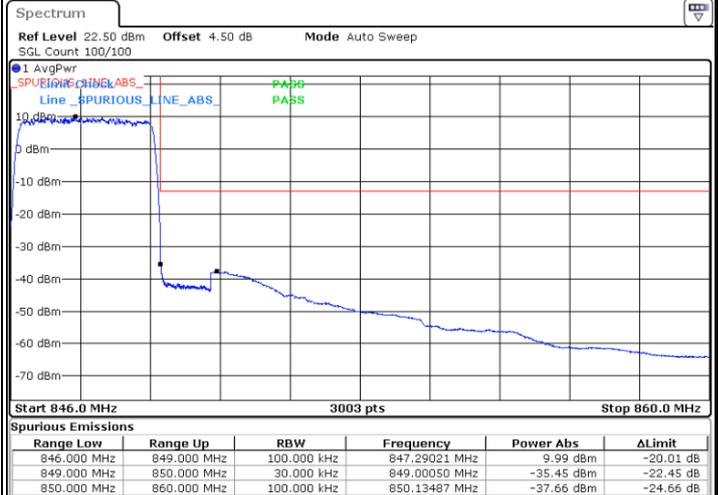
Date: 13.JUN.2020 11:31:04

Lowest Band Edge / Full RB



Date: 13.JUN.2020 11:22:38

Highest Band Edge / Full RB

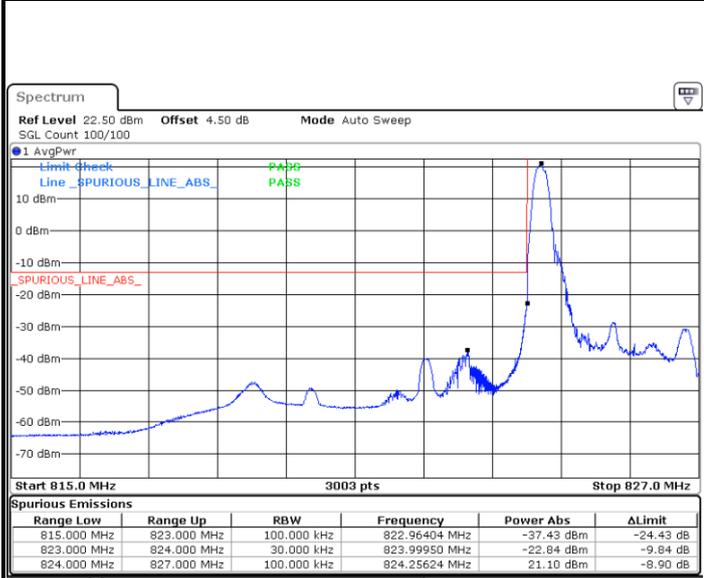


Date: 13.JUN.2020 11:34:20



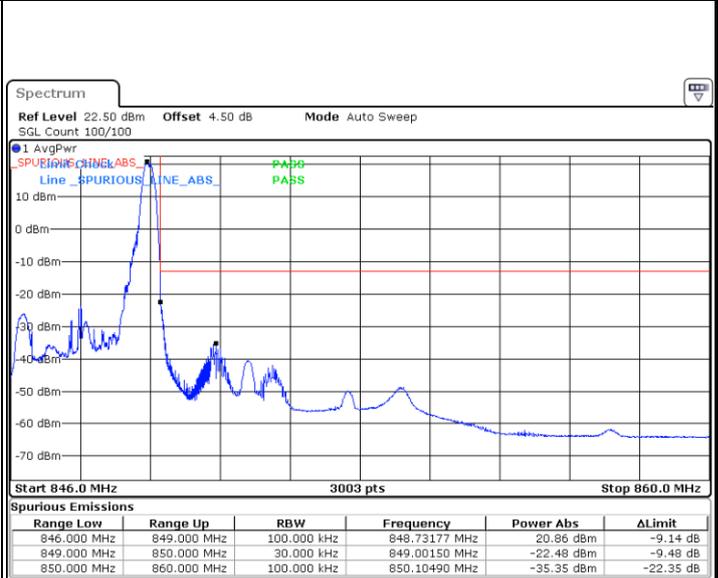
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



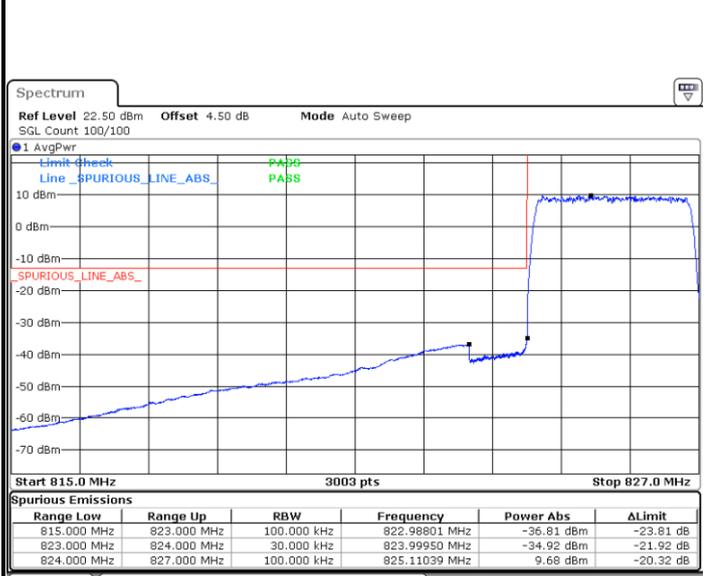
Date: 13.JUN.2020 11:21:00

Highest Band Edge / 1 RB



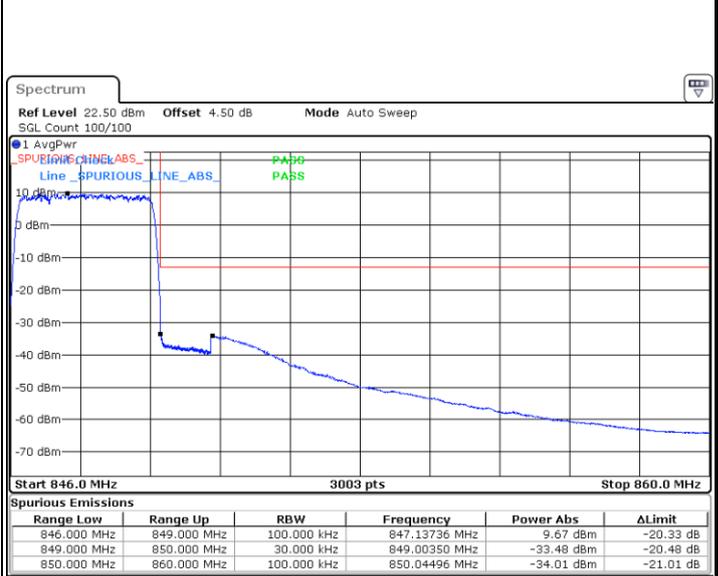
Date: 13.JUN.2020 11:32:42

Lowest Band Edge / Full RB



Date: 13.JUN.2020 11:24:16

Highest Band Edge / Full RB

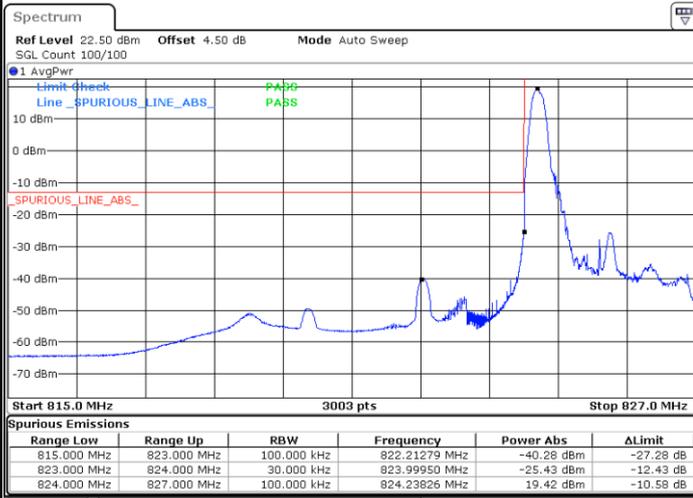


Date: 13.JUN.2020 11:35:58



LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



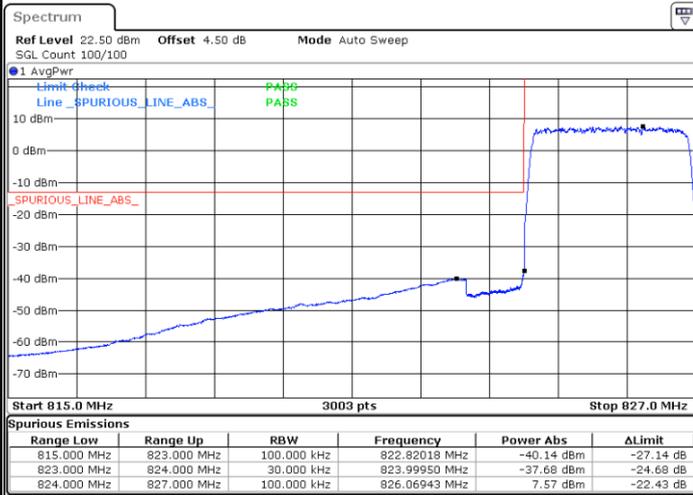
Date: 13.JUN.2020 12:47:56

Highest Band Edge / 1 RB



Date: 13.JUN.2020 12:53:46

Lowest Band Edge / Full RB



Date: 13.JUN.2020 12:46:18

Highest Band Edge / Full RB

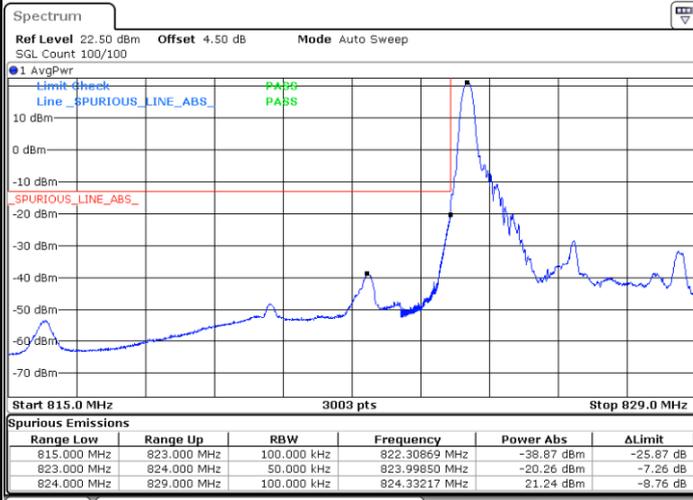


Date: 13.JUN.2020 12:52:08



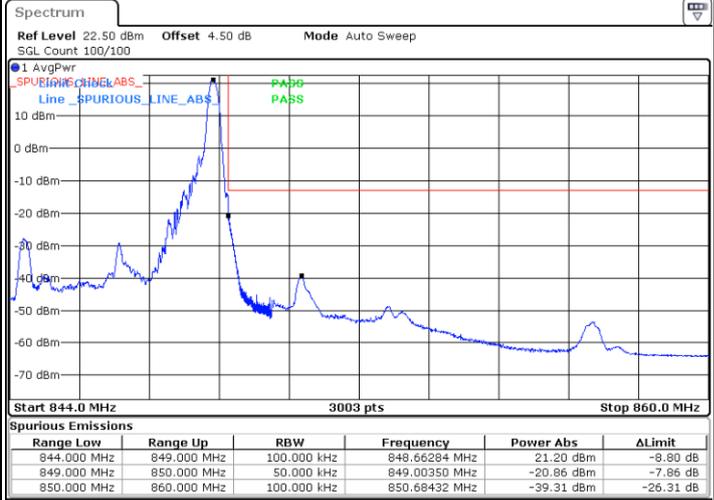
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



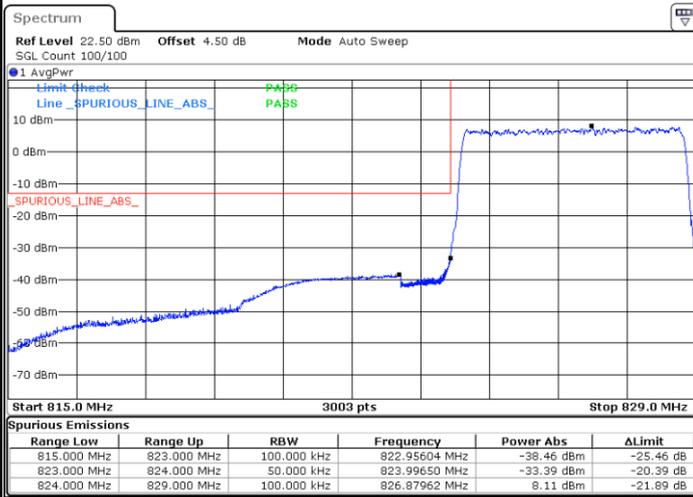
Date: 13.JUN.2020 11:40:11

Highest Band Edge / 1 RB



Date: 13.JUN.2020 11:51:53

Lowest Band Edge / Full RB



Date: 13.JUN.2020 11:43:27

Highest Band Edge / Full RB

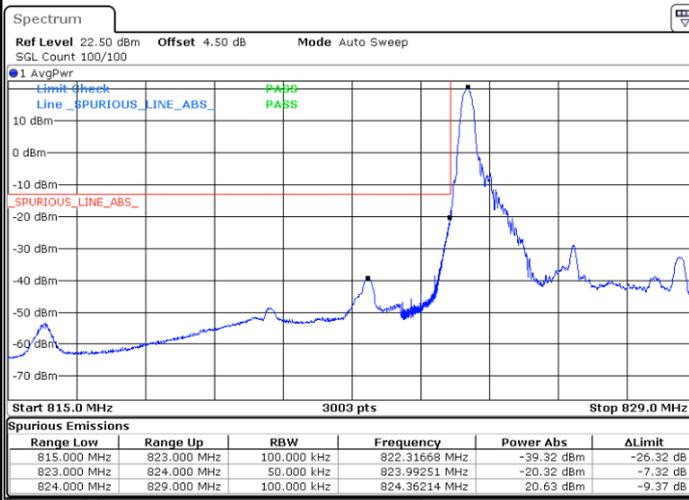


Date: 13.JUN.2020 11:55:09



LTE Band 5 / 5MHz / 16QAM

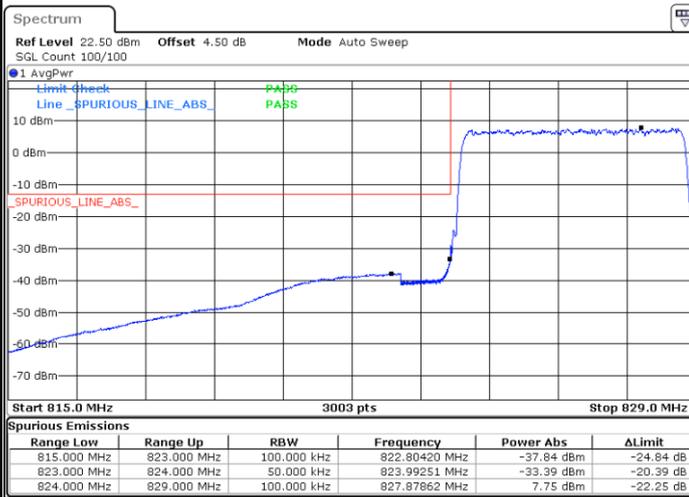
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



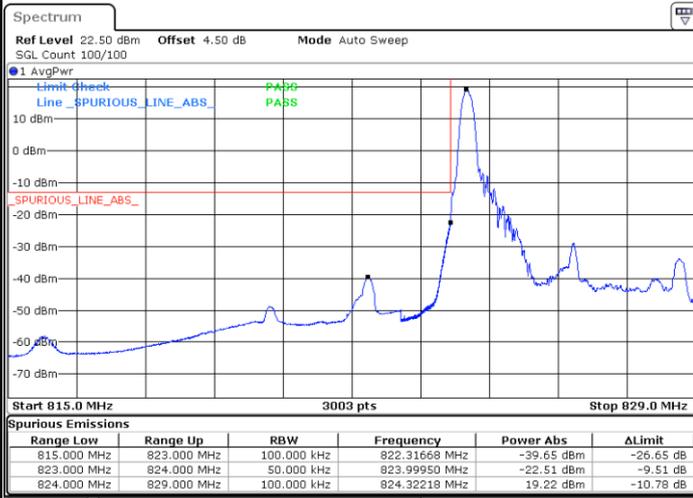
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



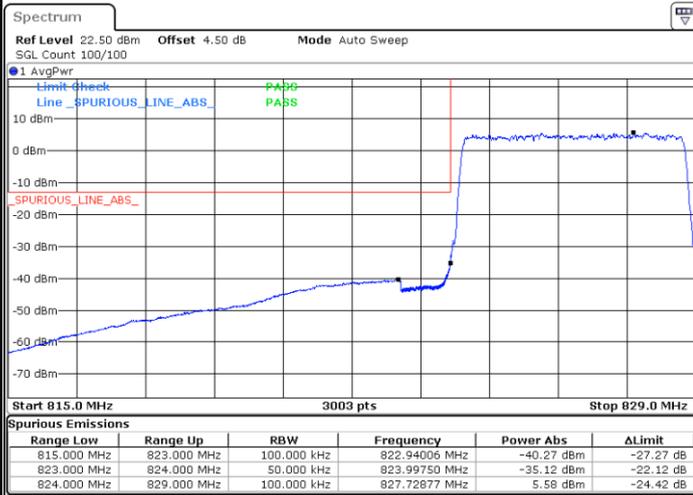
Date: 13.JUN.2020 12:58:19

Highest Band Edge / 1 RB



Date: 13.JUN.2020 13:04:09

Lowest Band Edge / Full RB



Date: 13.JUN.2020 12:56:41

Highest Band Edge / Full RB



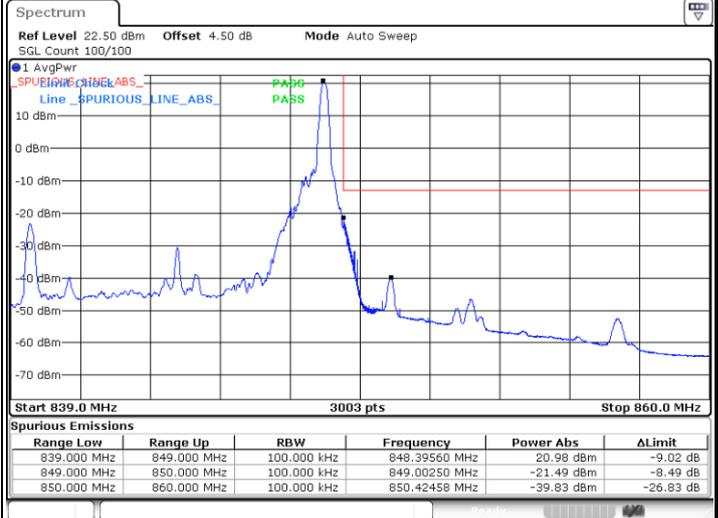
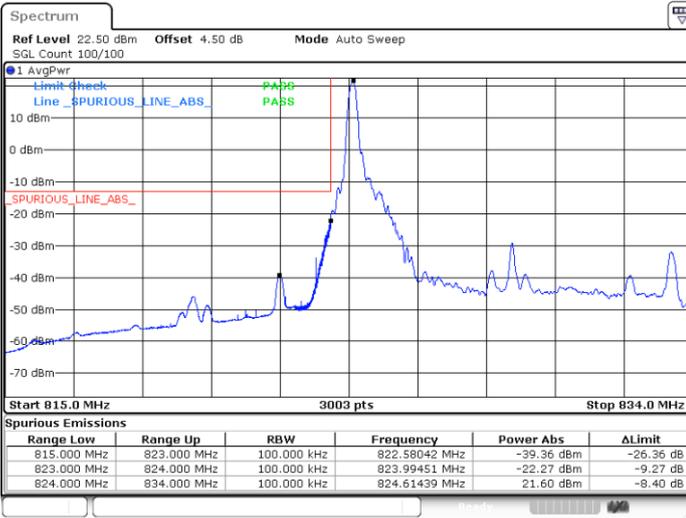
Date: 13.JUN.2020 13:02:31



LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

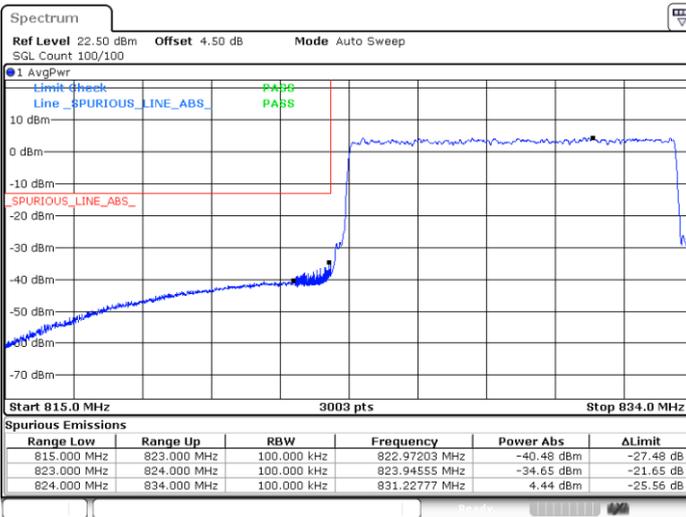


Date: 13.JUN.2020 12:00:59

Date: 13.JUN.2020 12:12:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



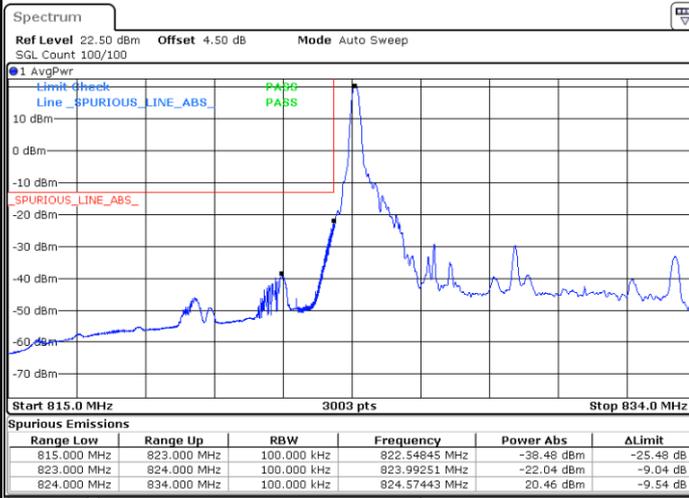
Date: 13.JUN.2020 12:04:15

Date: 13.JUN.2020 12:15:56



LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



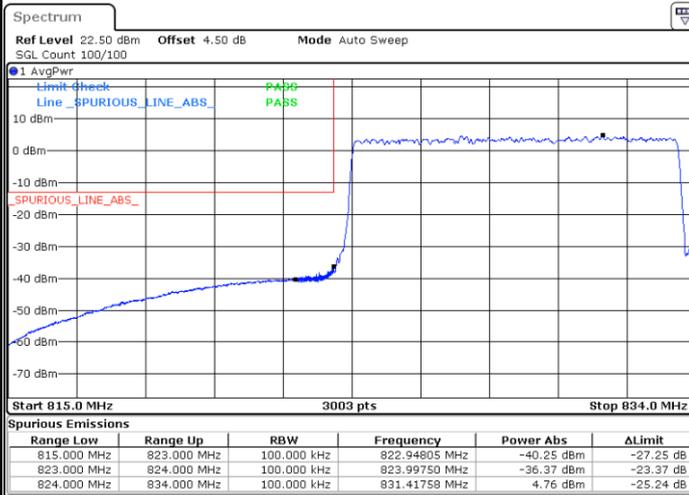
Date: 13.JUN.2020 12:02:37

Highest Band Edge / 1 RB



Date: 13.JUN.2020 12:14:18

Lowest Band Edge / Full RB



Date: 13.JUN.2020 12:05:53

Highest Band Edge / Full RB

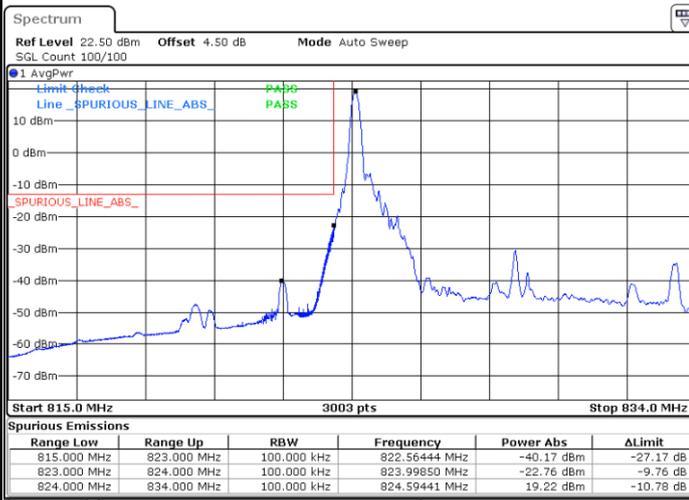


Date: 13.JUN.2020 12:17:34



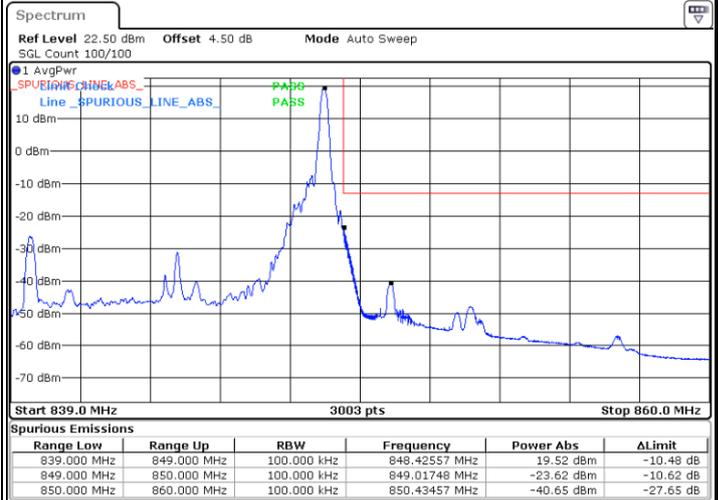
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



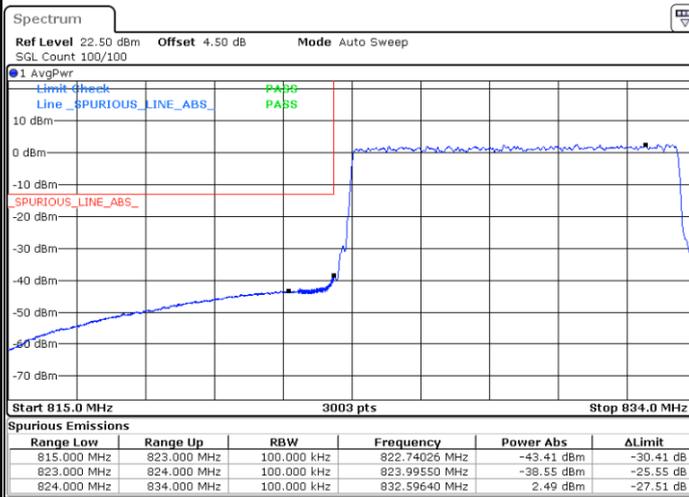
Date: 13.JUN.2020 13:08:47

Highest Band Edge / 1 RB



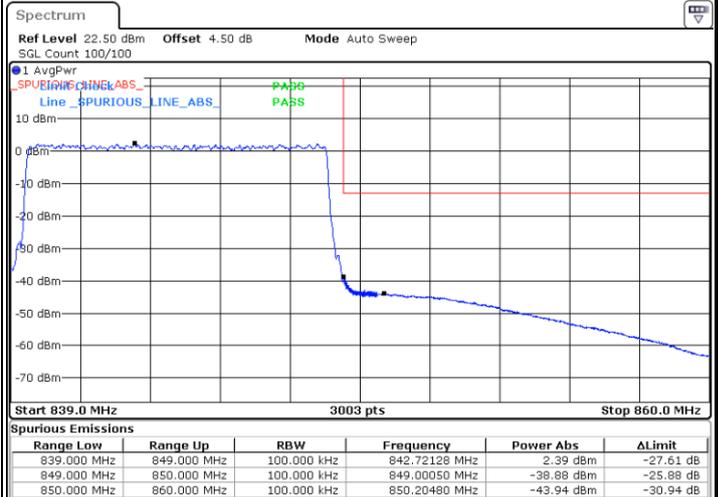
Date: 13.JUN.2020 13:14:36

Lowest Band Edge / Full RB



Date: 13.JUN.2020 13:07:09

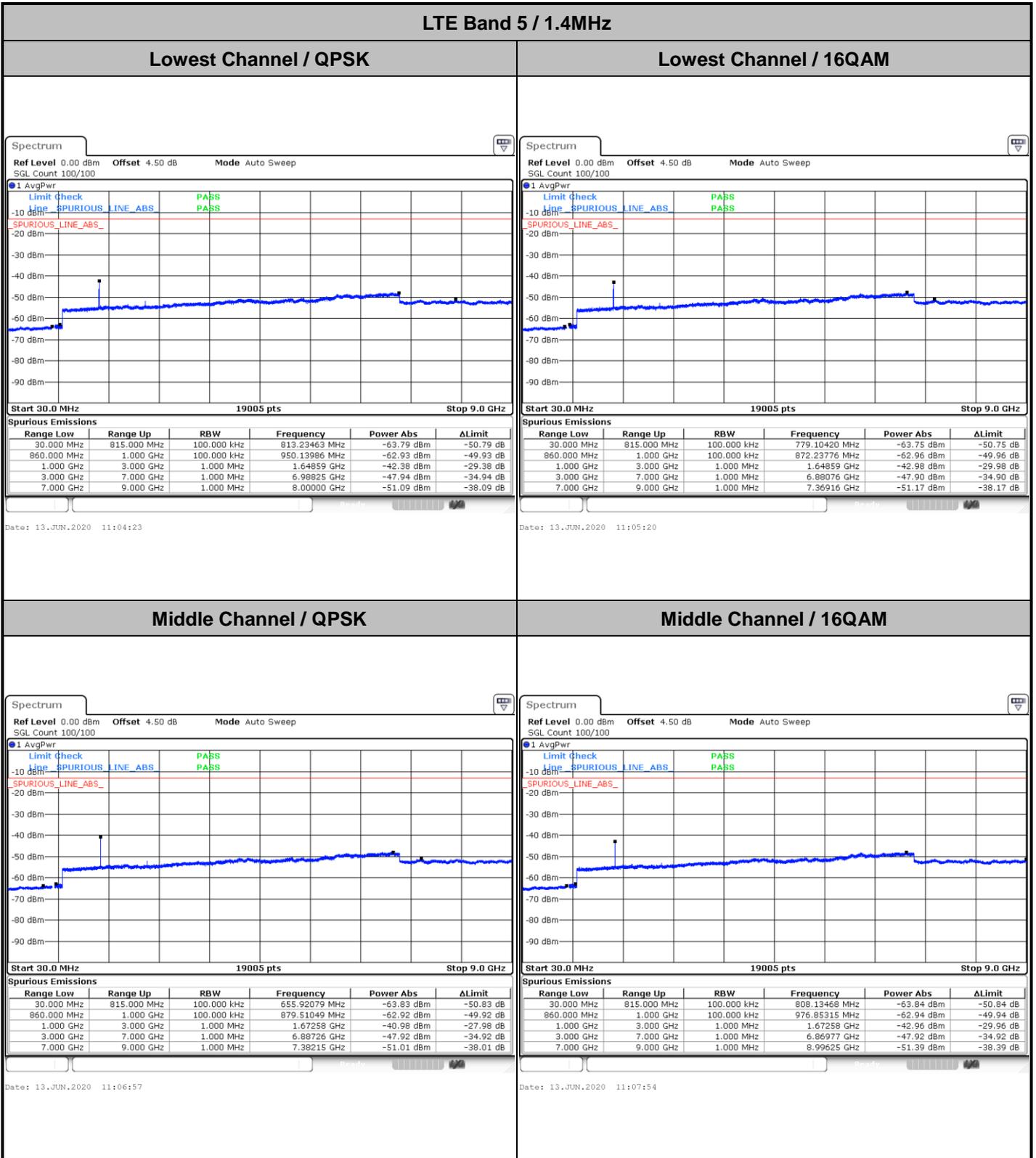
Highest Band Edge / Full RB



Date: 13.JUN.2020 13:12:59



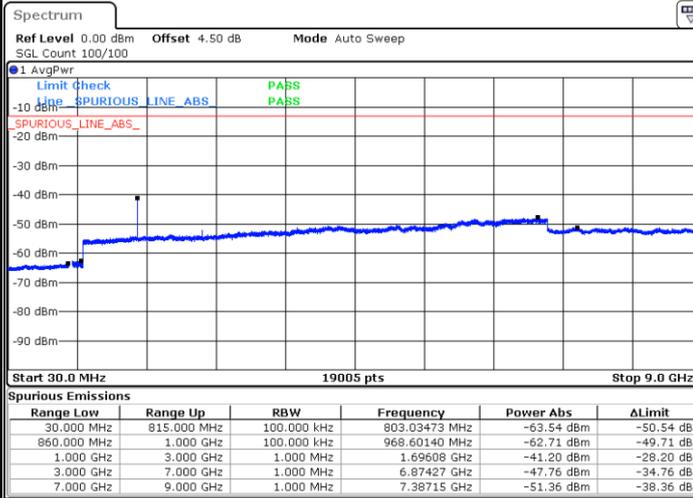
Conducted Spurious Emission





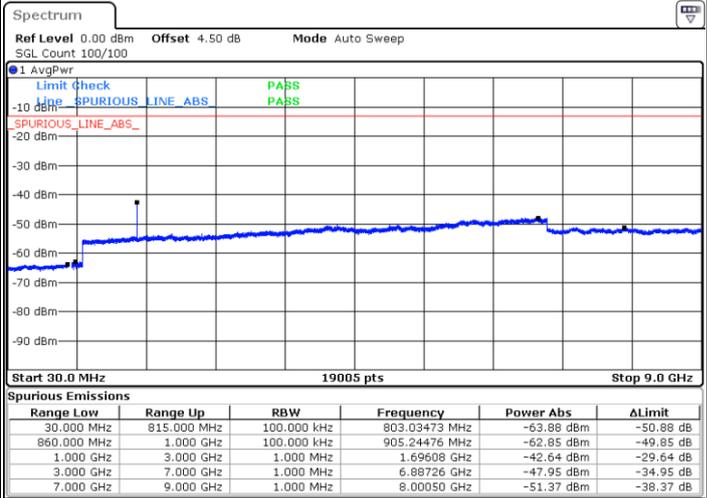
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 13.JUN.2020 11:16:05

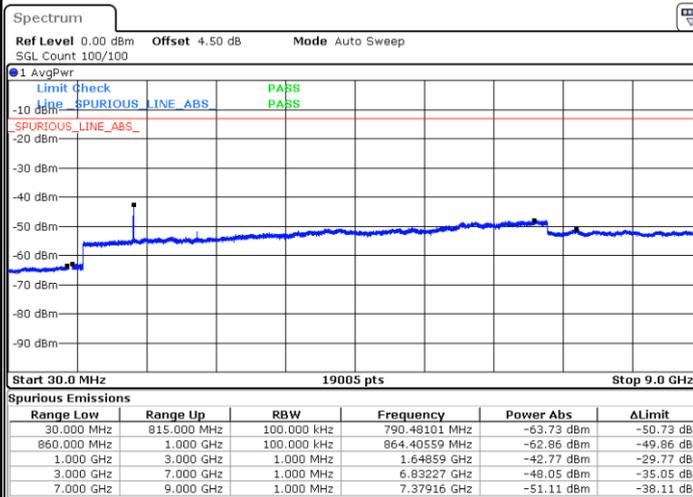
Highest Channel / 16QAM



Date: 13.JUN.2020 11:17:02

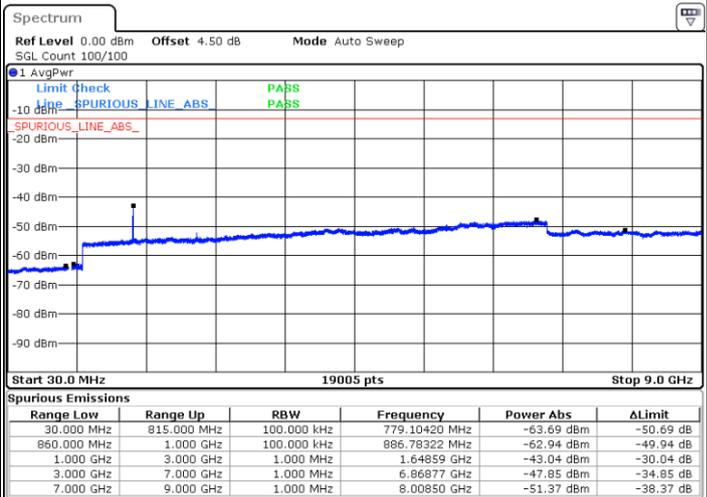
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 13.JUN.2020 11:25:12

Lowest Channel / 16QAM

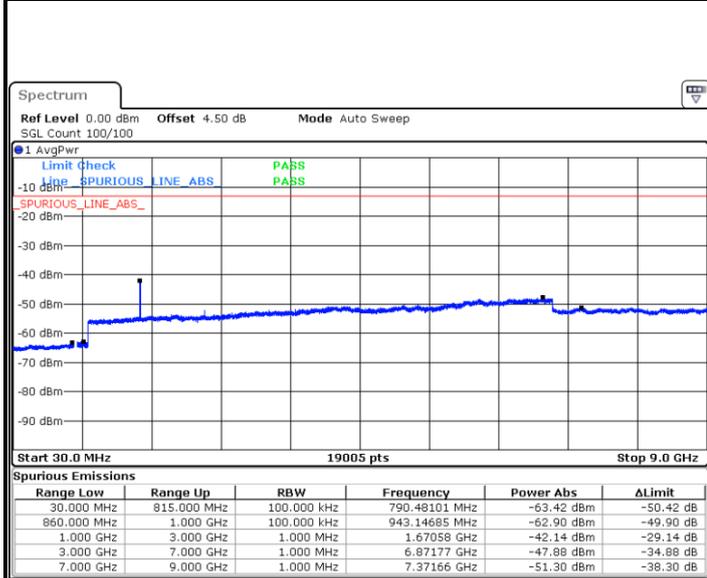


Date: 13.JUN.2020 11:26:09



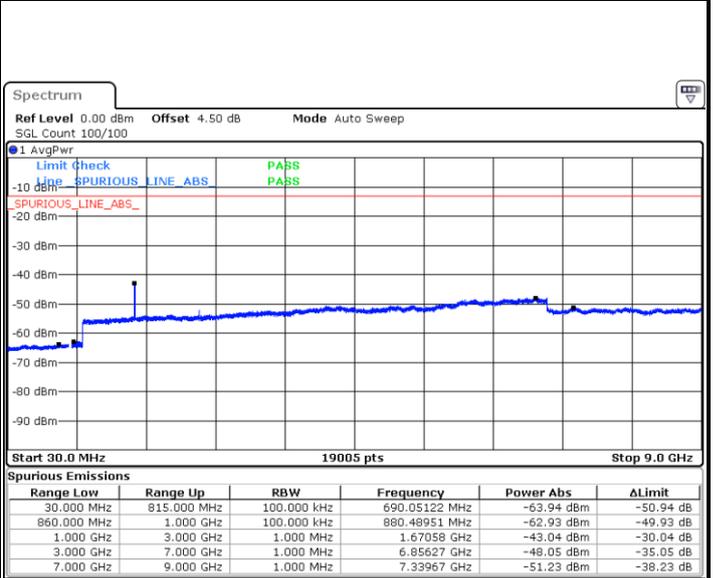
LTE Band 5 / 3MHz

Middle Channel / QPSK



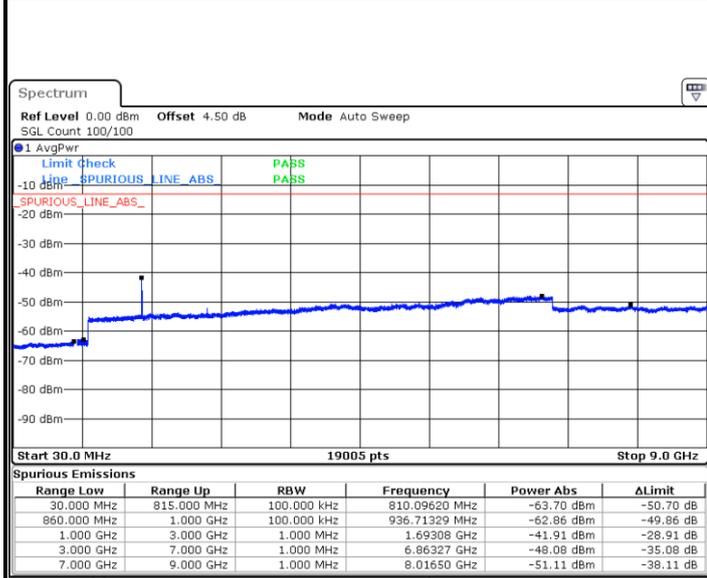
Date: 13.JUN.2020 11:27:47

Middle Channel / 16QAM



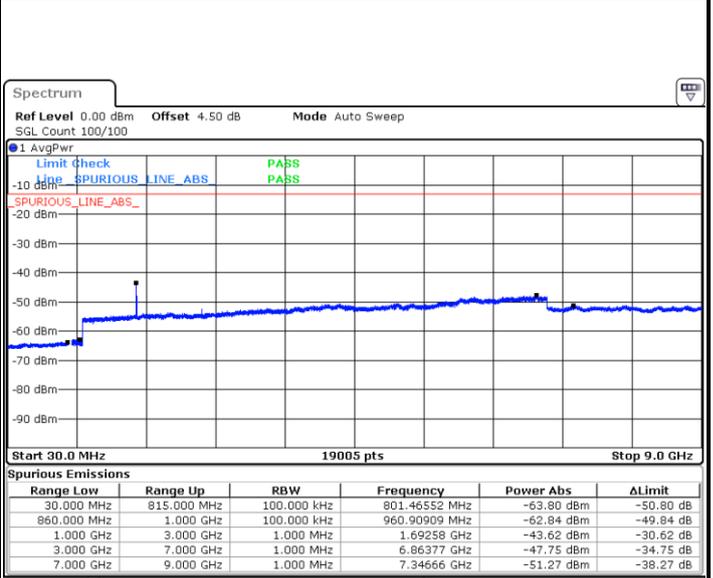
Date: 13.JUN.2020 11:28:44

Highest Channel / QPSK



Date: 13.JUN.2020 11:36:54

Highest Channel / 16QAM



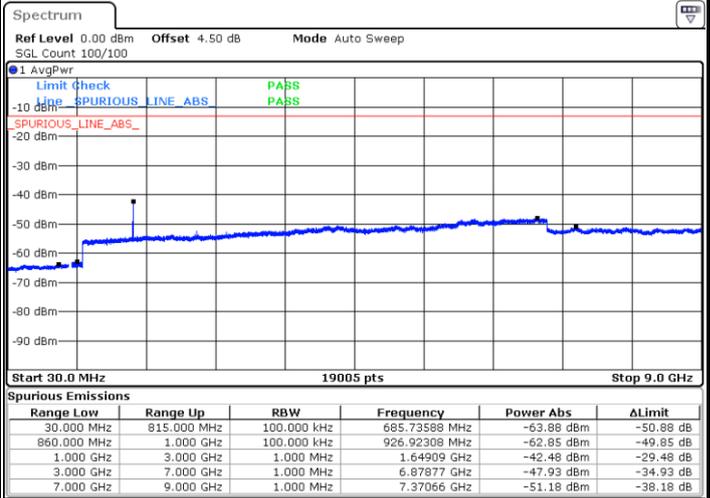
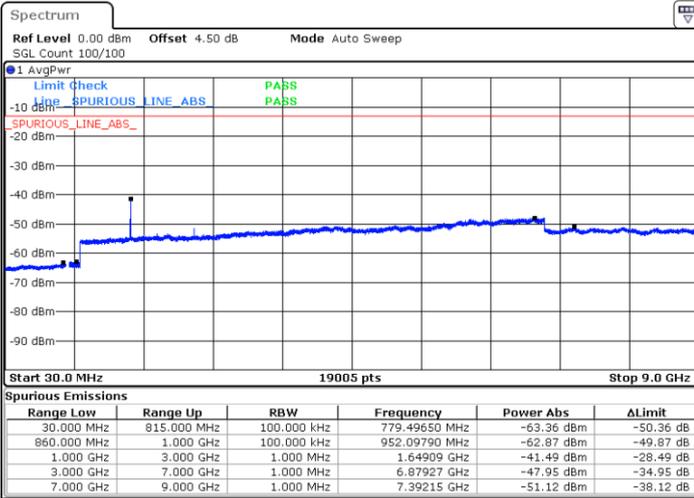
Date: 13.JUN.2020 11:37:51



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

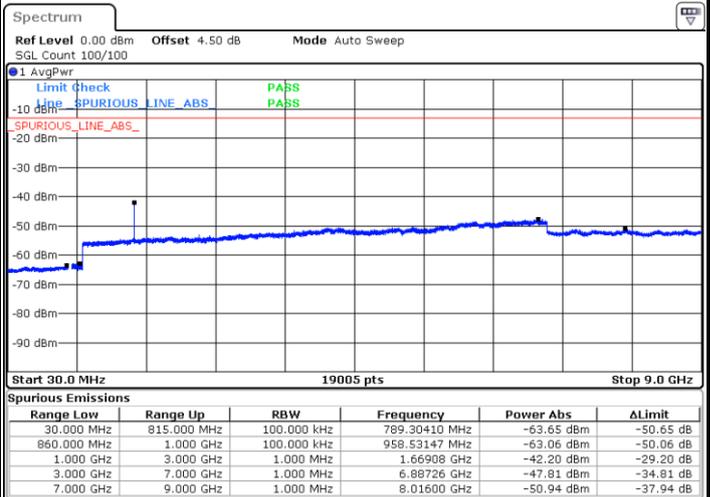
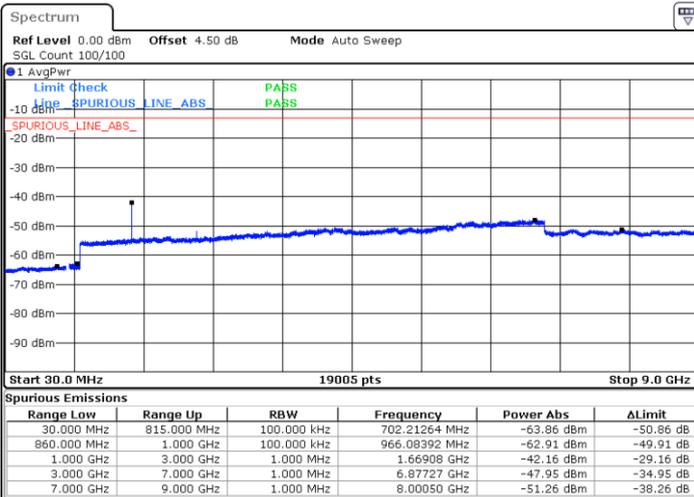


Date: 13.JUN.2020 11:46:01

Date: 13.JUN.2020 11:46:58

Middle Channel / QPSK

Middle Channel / 16QAM



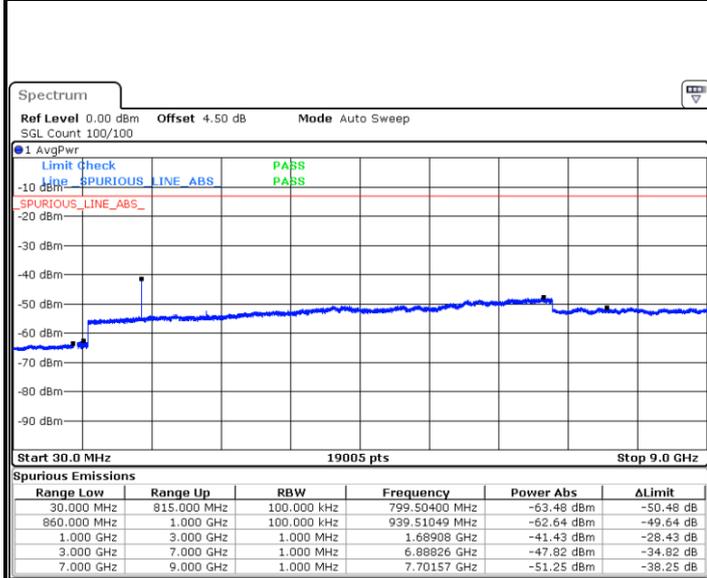
Date: 13.JUN.2020 11:48:36

Date: 13.JUN.2020 11:49:33



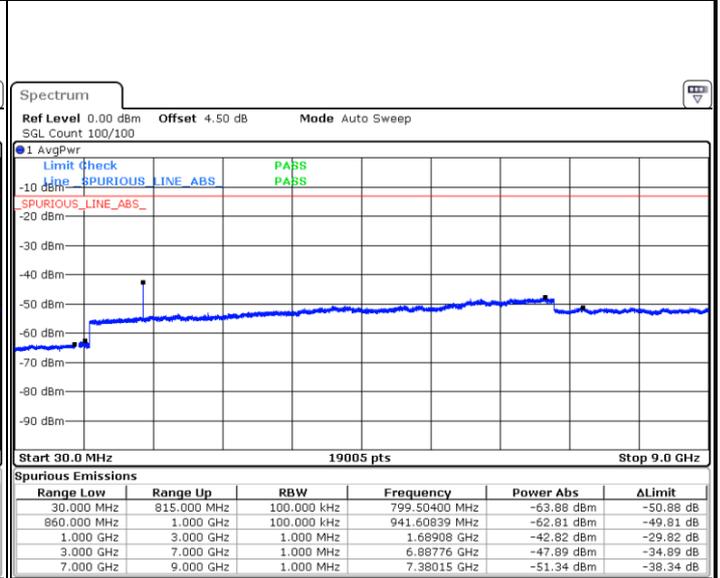
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 13.JUN.2020 11:57:43

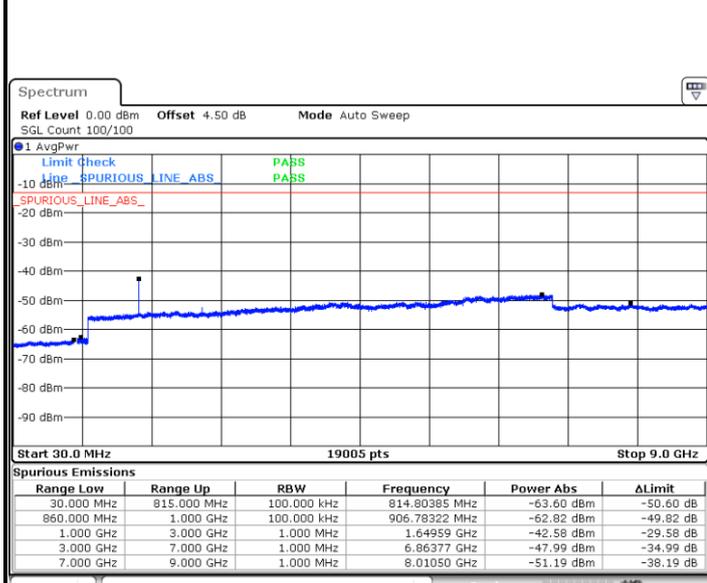
Highest Channel / 16QAM



Date: 13.JUN.2020 11:58:39

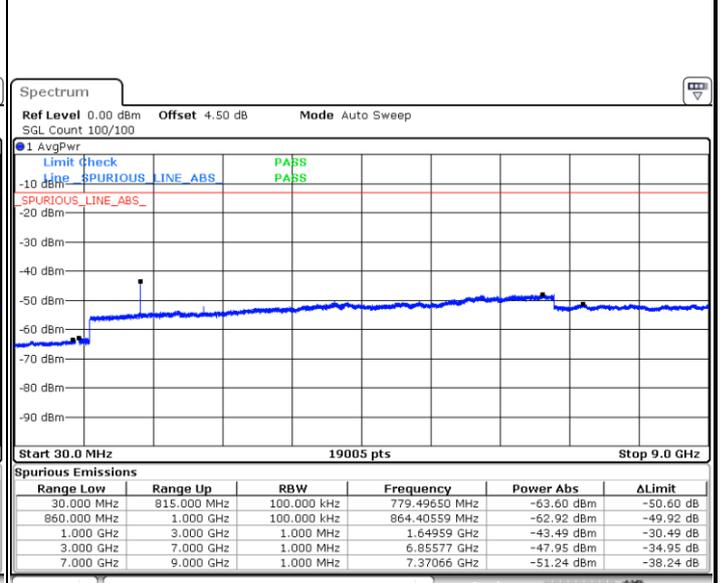
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 13.JUN.2020 12:06:49

Lowest Channel / 16QAM



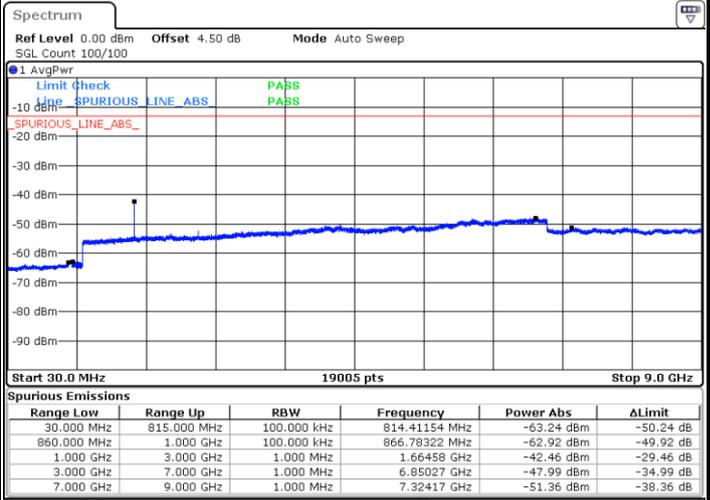
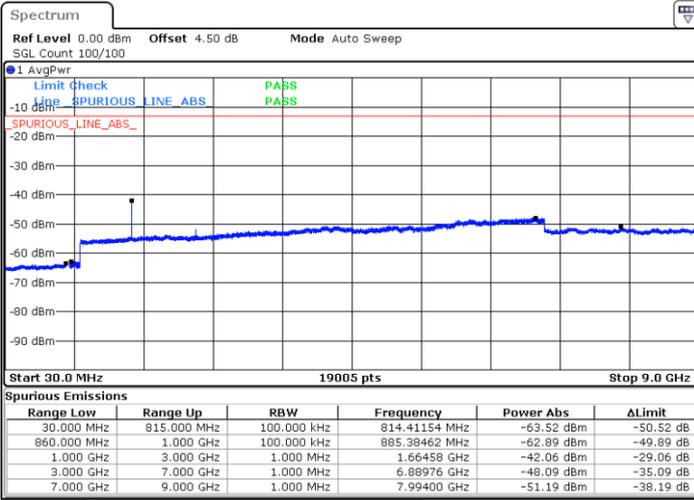
Date: 13.JUN.2020 12:07:46



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

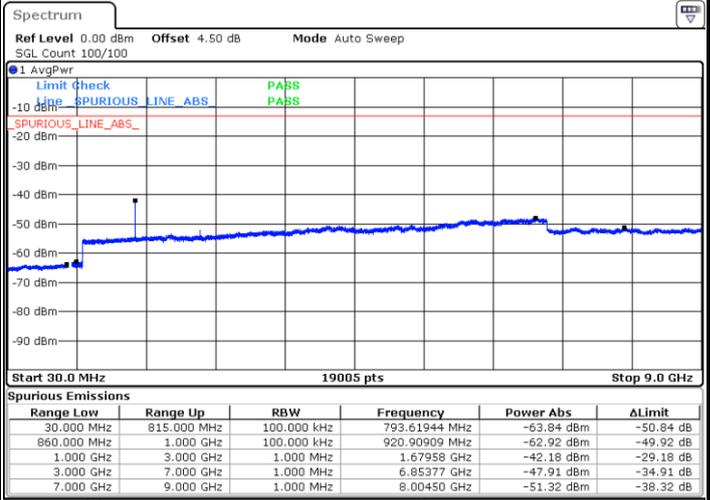
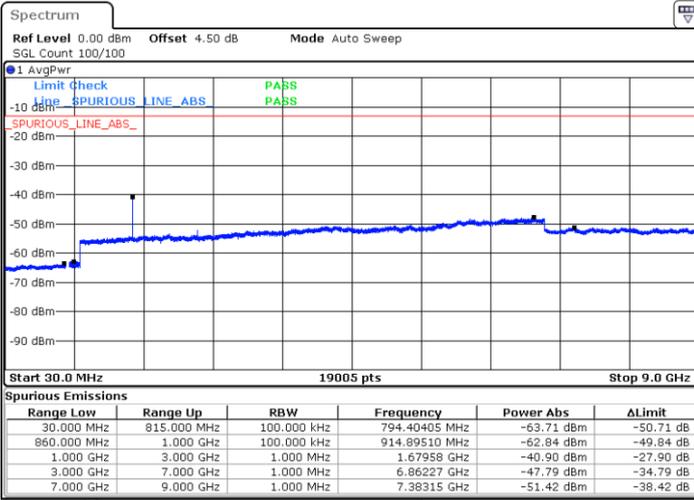


Date: 13.JUN.2020 12:09:23

Date: 13.JUN.2020 12:10:21

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.JUN.2020 12:18:30

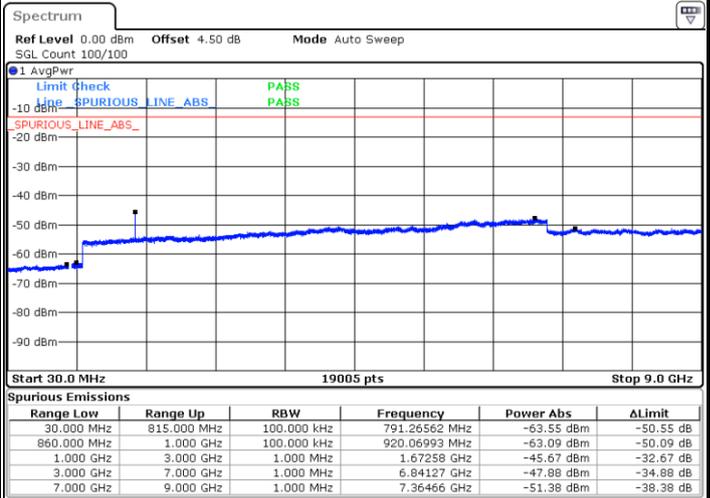
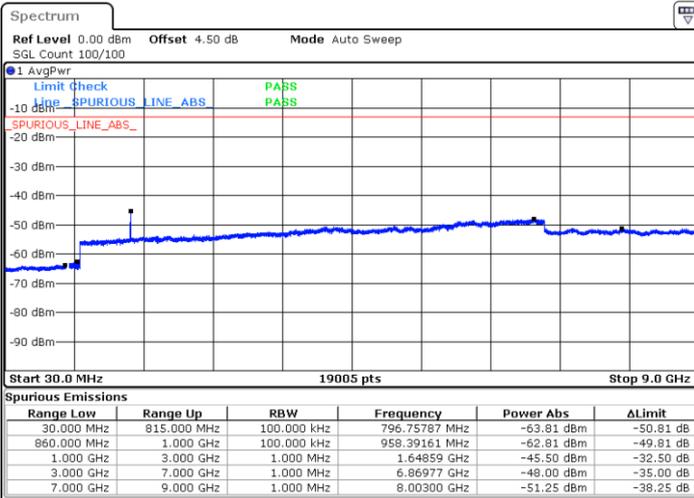
Date: 13.JUN.2020 12:19:27



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

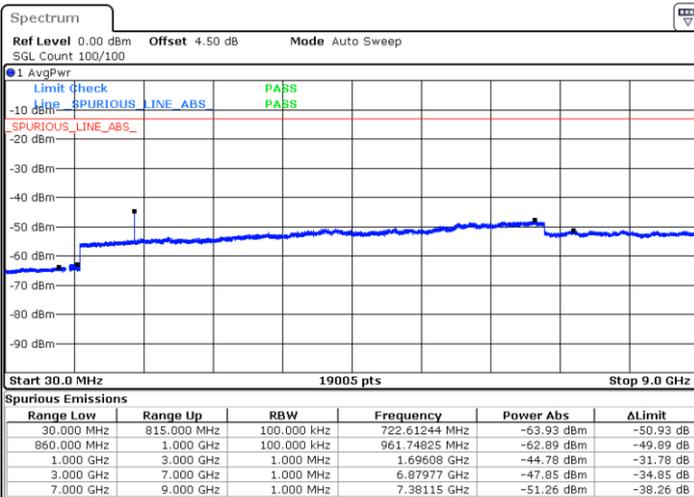
Middle Channel / 64QAM



Date: 13.JUN.2020 12:38:29

Date: 13.JUN.2020 12:39:26

Highest Channel / 64QAM



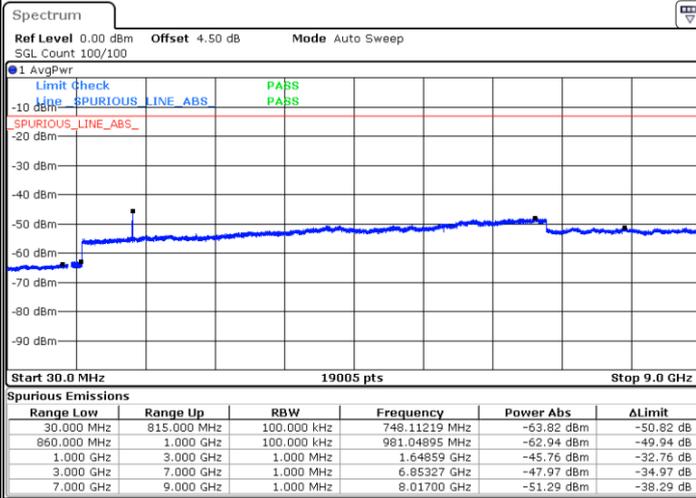
Date: 13.JUN.2020 12:44:19



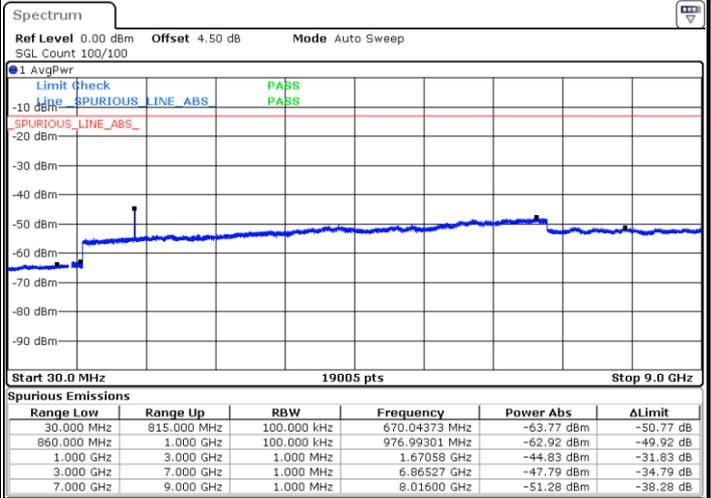
LTE Band 5 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

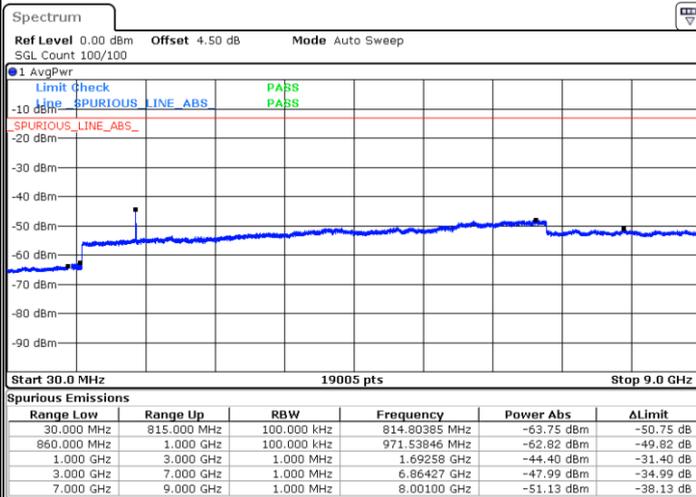


Date: 13 JUN.2020 12:48:52



Date: 13 JUN.2020 12:49:49

Highest Channel / 64QAM



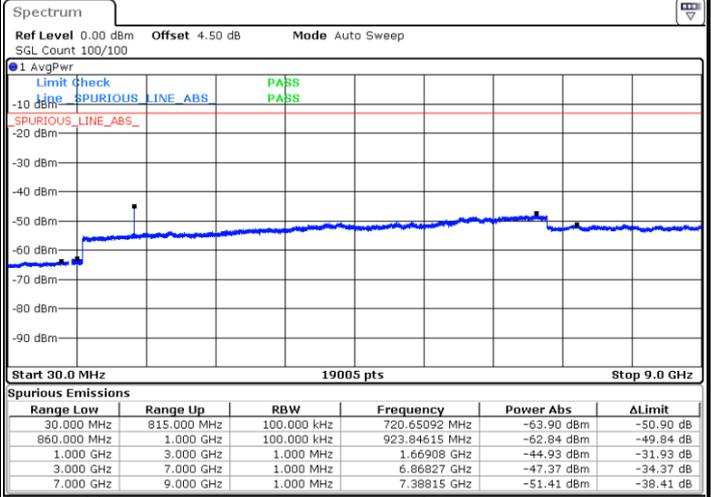
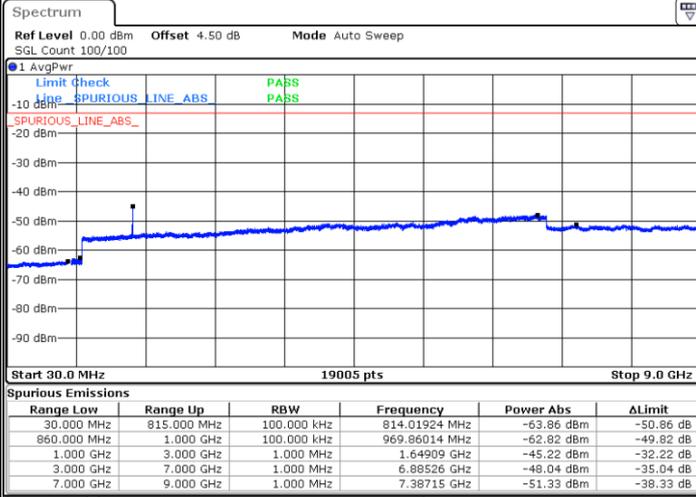
Date: 13 JUN.2020 12:54:42



LTE Band 5 / 5MHz

Lowest Channel / 64QAM

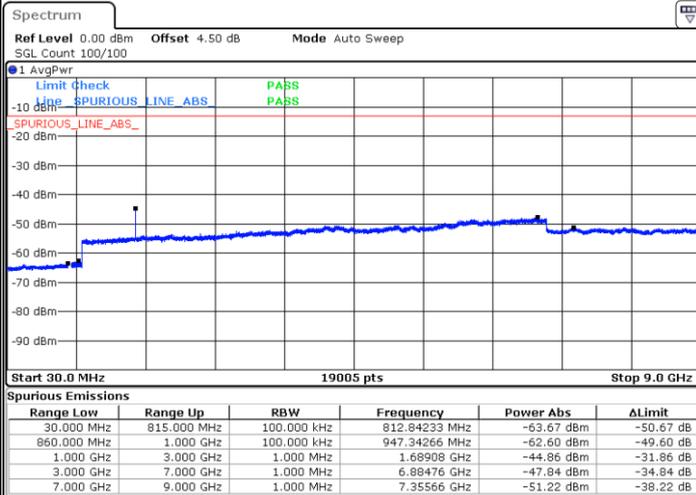
Middle Channel / 64QAM



Date: 13.JUN.2020 12:59:15

Date: 13.JUN.2020 13:00:12

Highest Channel / 64QAM



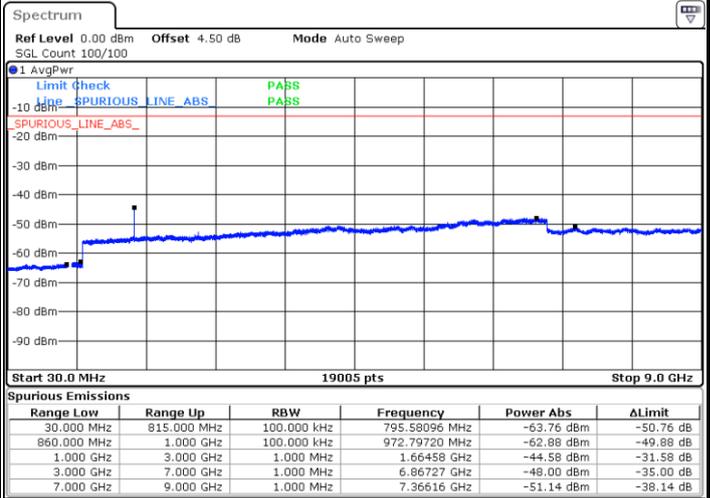
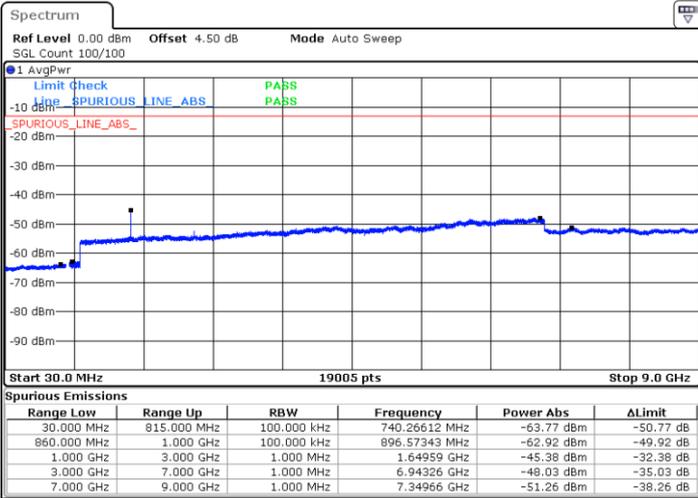
Date: 13.JUN.2020 13:05:10



LTE Band 5 / 10MHz

Lowest Channel / 64QAM

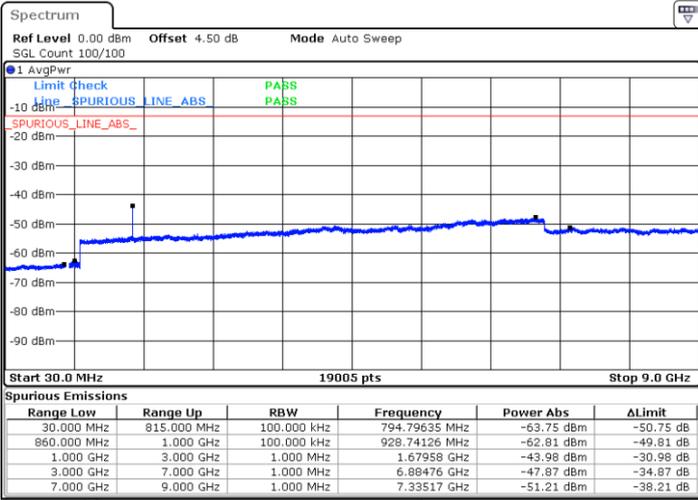
Middle Channel / 64QAM



Date: 13. JUN. 2020 13:09:43

Date: 13. JUN. 2020 13:10:39

Highest Channel / 64QAM



Date: 13. JUN. 2020 13:15:32



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	0.0003	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0021	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.1 V.



LTE Band 12

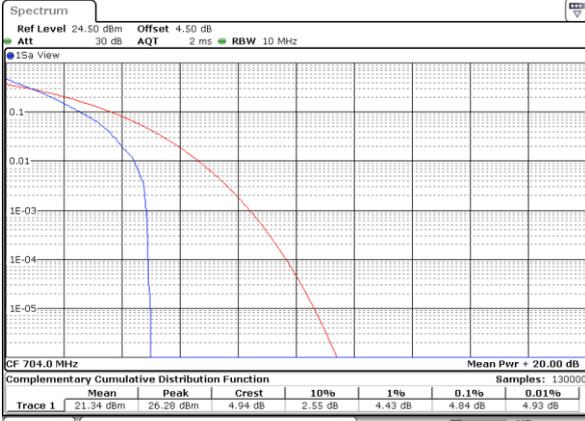
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.84	5.13	5.86	5.71	PASS
Middle CH	4.78	5.16	5.74	5.71	
Highest CH	4.78	5.04	5.68	5.68	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.55	6.29	-	-	PASS
Middle CH	6.55	6.23	-	-	
Highest CH	6.38	6.26	-	-	



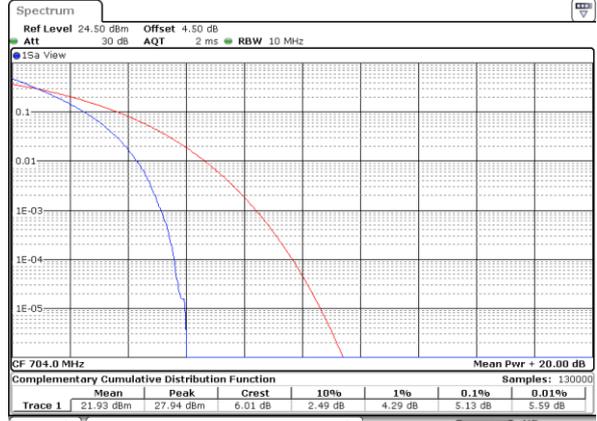
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



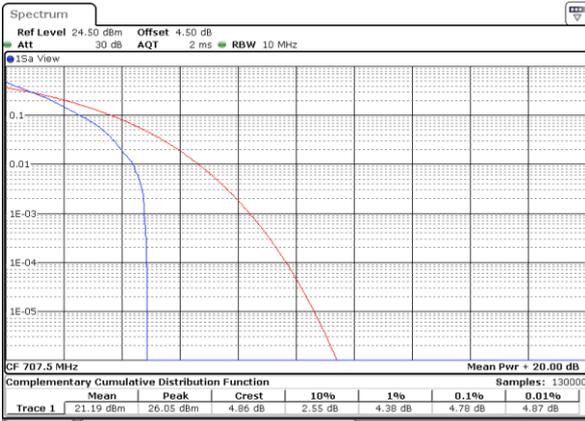
Date: 13 JUN 2020 15:11:01

Lowest Channel / Full RB



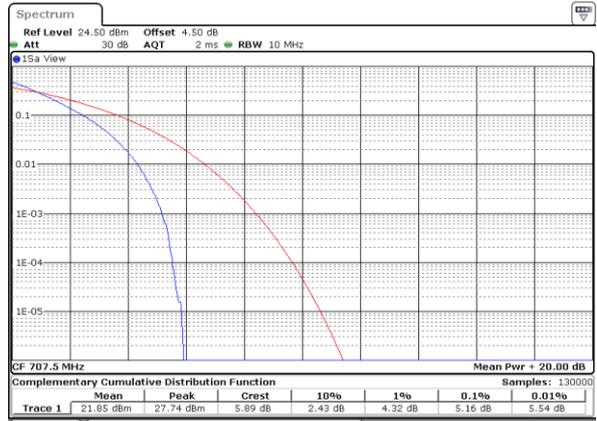
Date: 13 JUN 2020 15:11:10

Middle Channel / 1RB



Date: 13 JUN 2020 15:11:48

Middle Channel / Full RB



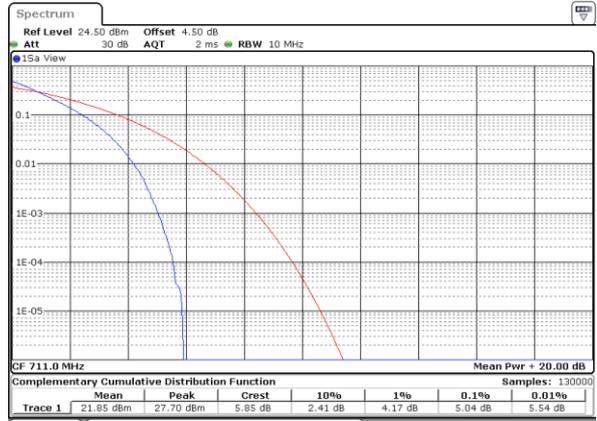
Date: 13 JUN 2020 15:11:39

Highest Channel / 1RB



Date: 13 JUN 2020 15:12:17

Highest Channel / Full RB

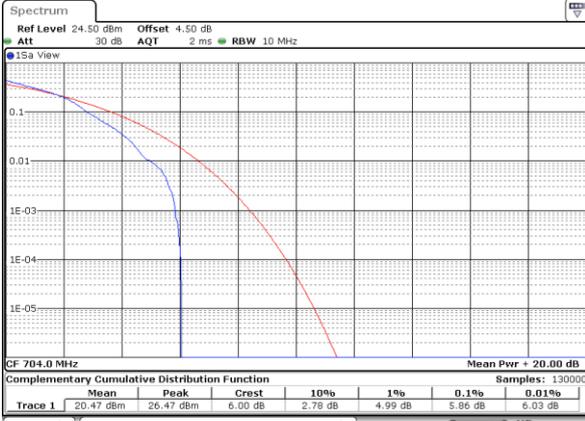


Date: 13 JUN 2020 15:12:27



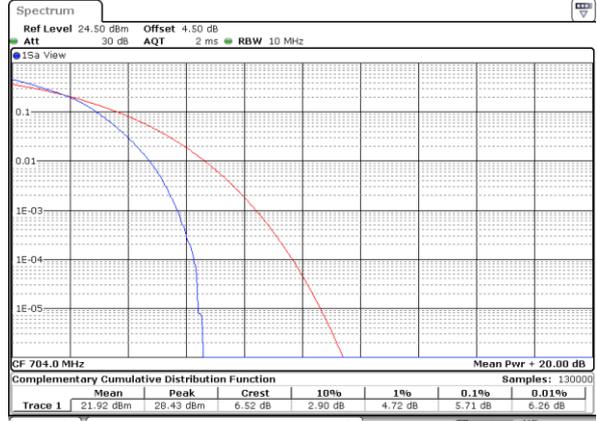
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



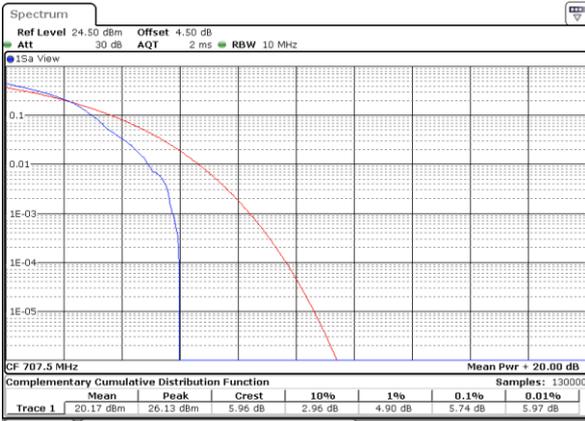
Date: 13 JUN 2020 15:10:52

Lowest Channel / Full RB



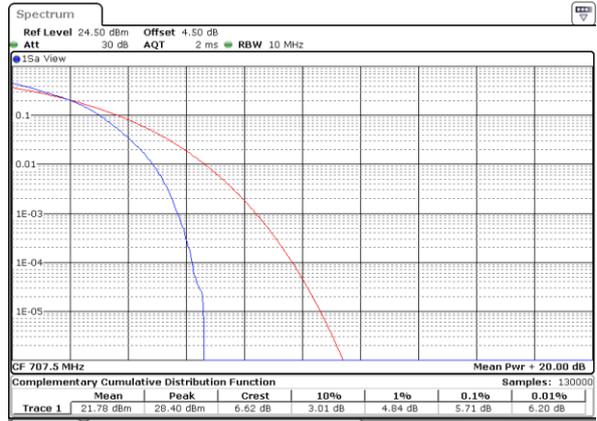
Date: 13 JUN 2020 15:11:21

Middle Channel / 1RB



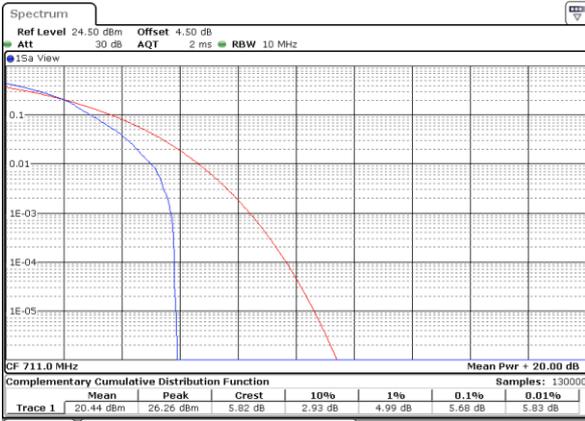
Date: 13 JUN 2020 15:11:57

Middle Channel / Full RB



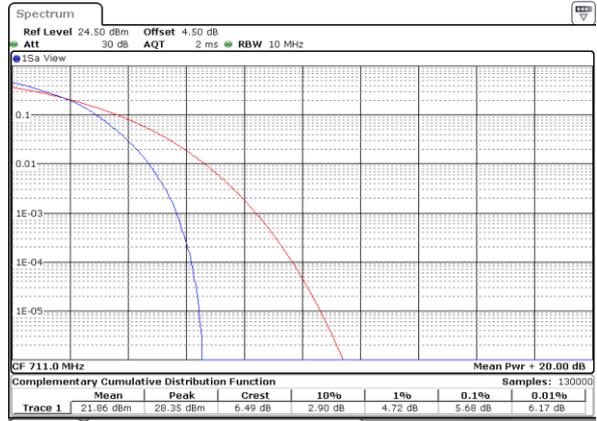
Date: 13 JUN 2020 15:11:30

Highest Channel / 1RB



Date: 13 JUN 2020 15:12:07

Highest Channel / Full RB

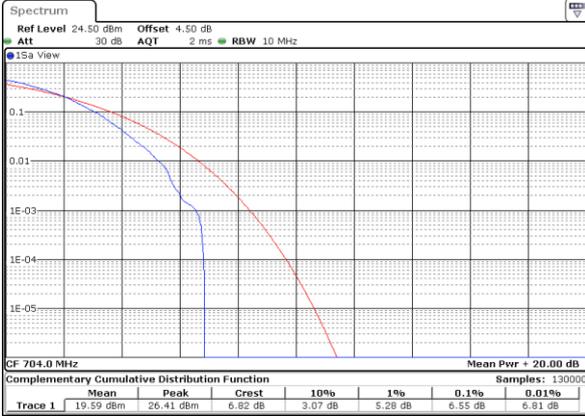


Date: 13 JUN 2020 15:12:37



LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



Date: 13 JUN 2020 15:09:57

Lowest Channel / Full RB



Date: 13 JUN 2020 15:10:07

Middle Channel / 1RB



Date: 13 JUN 2020 15:10:25

Middle Channel / Full RB



Date: 13 JUN 2020 15:10:16

Highest Channel / 1RB



Date: 13 JUN 2020 15:10:34

Highest Channel / Full RB



Date: 13 JUN 2020 15:10:43



26dB Bandwidth

Mode	LTE Band 12 : 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	1.28	1.24	2.93	2.97	5.05	5.00	9.95	9.71	-	-	-	-
Middle CH	1.25	1.30	2.94	2.97	4.93	4.89	9.73	10.05	-	-	-	-
Highest CH	1.36	1.27	2.97	2.97	5.09	4.89	9.93	10.03	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	2.95	-	5.03	-	9.83	-	-	-	-	-
Middle CH	1.31	-	2.98	-	5.07	-	9.99	-	-	-	-	-
Highest CH	1.28	-	2.97	-	5.03	-	9.79	-	-	-	-	-