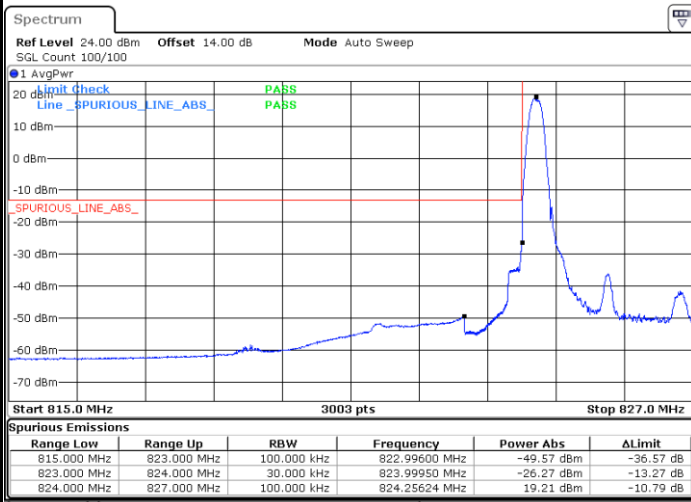




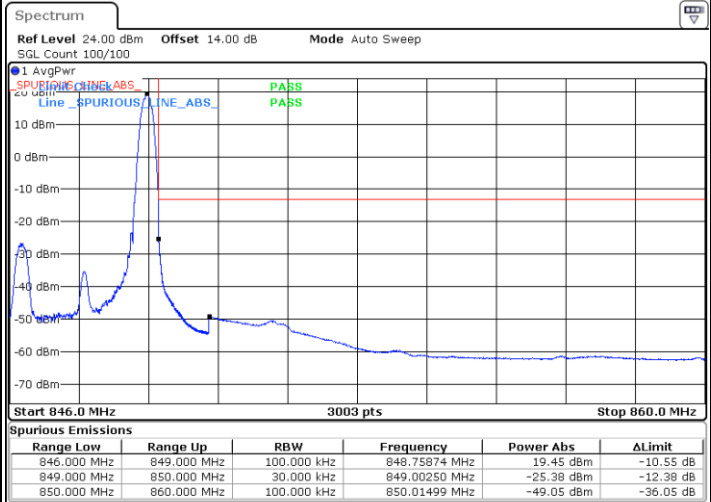
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



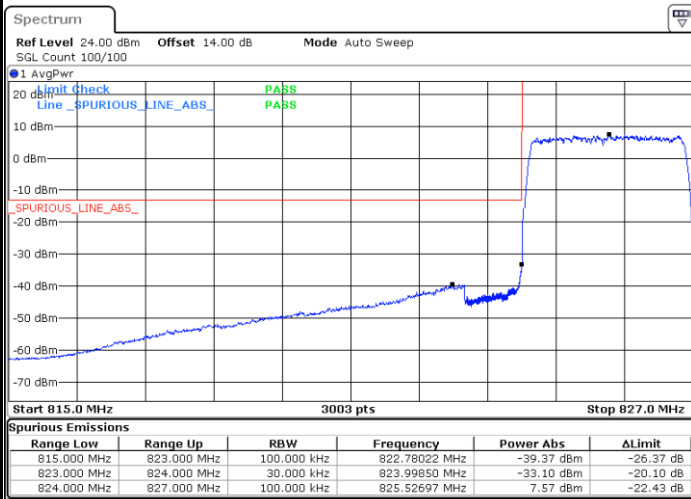
Date: 19.NOV.2020 14:41:51

Highest Band Edge / 1 RB



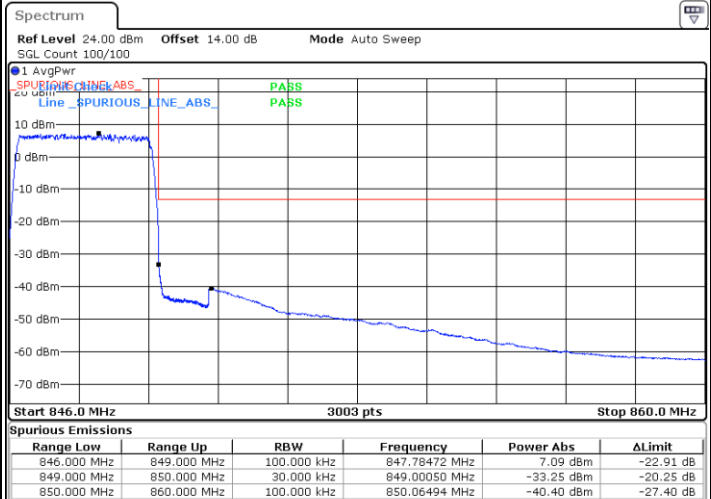
Date: 19.NOV.2020 15:15:25

Lowest Band Edge / Full RB



Date: 19.NOV.2020 14:40:08

Highest Band Edge / Full RB

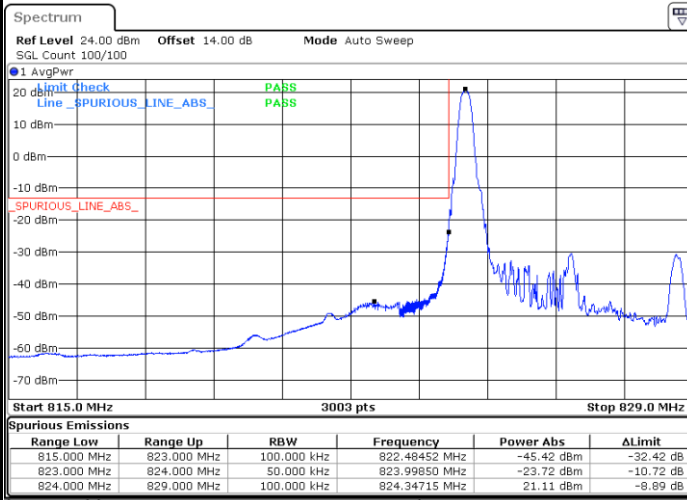


Date: 19.NOV.2020 14:57:13



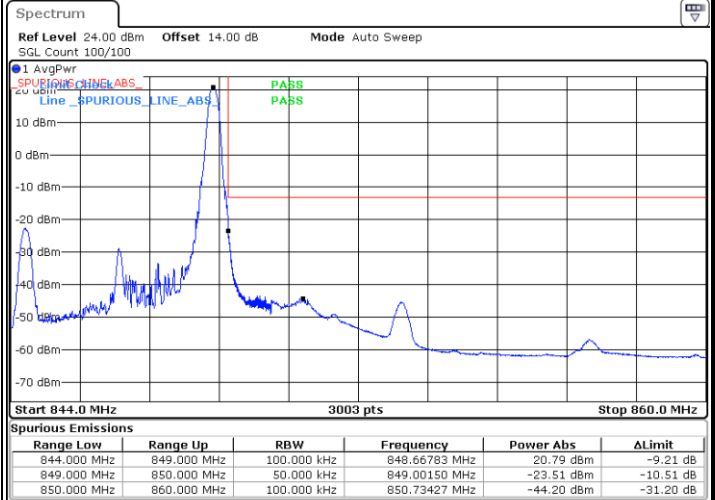
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



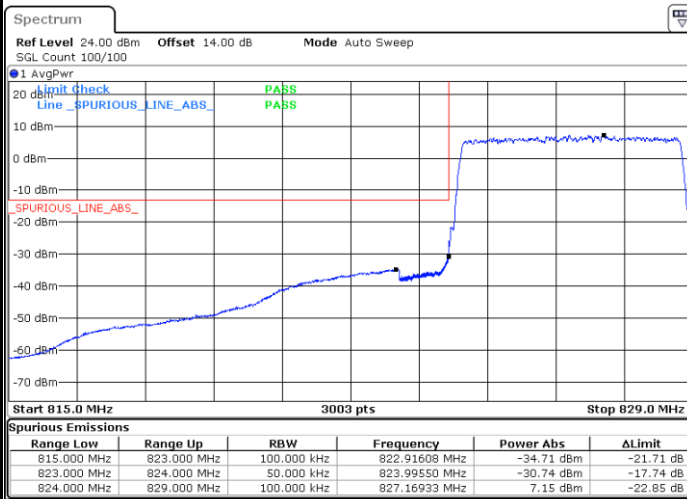
Date: 19.NOV.2020 15:29:54

Highest Band Edge / 1 RB



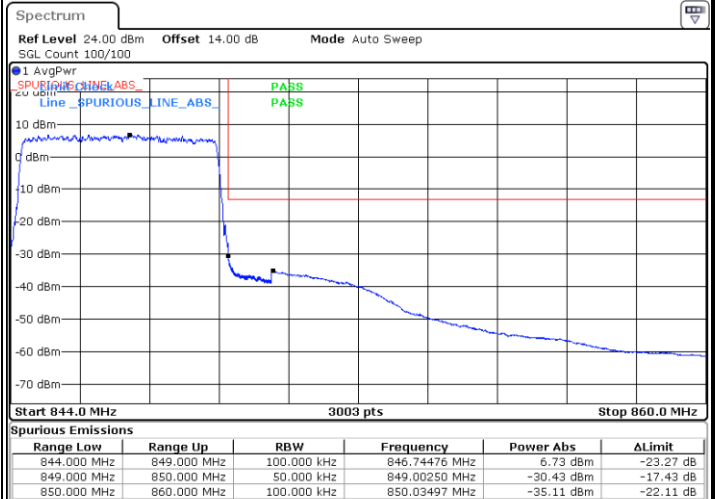
Date: 19.NOV.2020 15:55:27

Lowest Band Edge / Full RB



Date: 19.NOV.2020 15:24:52

Highest Band Edge / Full RB

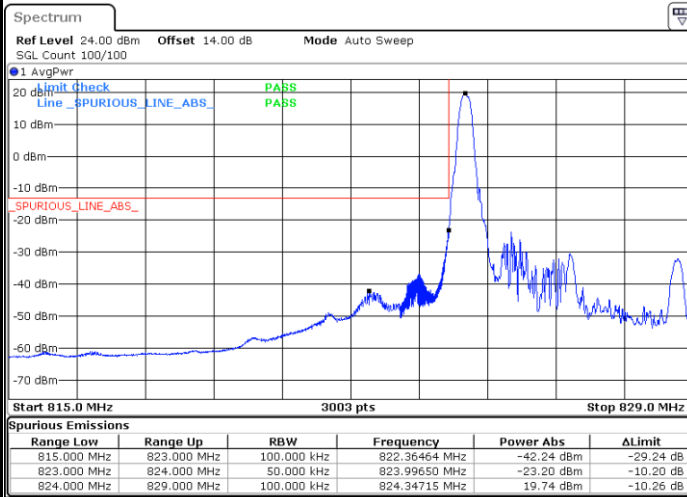


Date: 19.NOV.2020 15:53:49



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



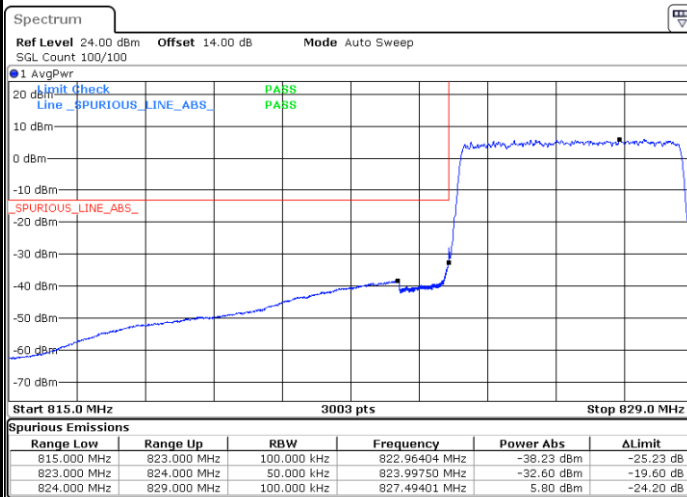
Date: 19.NOV.2020 15:32:42

Highest Band Edge / 1 RB



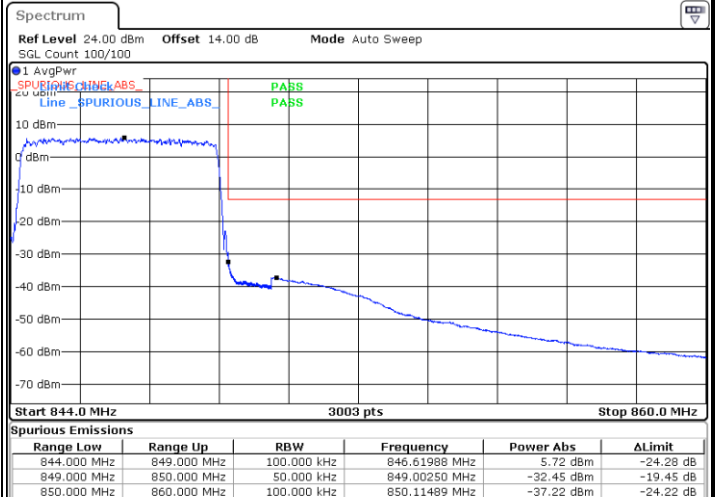
Date: 19.NOV.2020 15:56:15

Lowest Band Edge / Full RB



Date: 19.NOV.2020 15:23:20

Highest Band Edge / Full RB

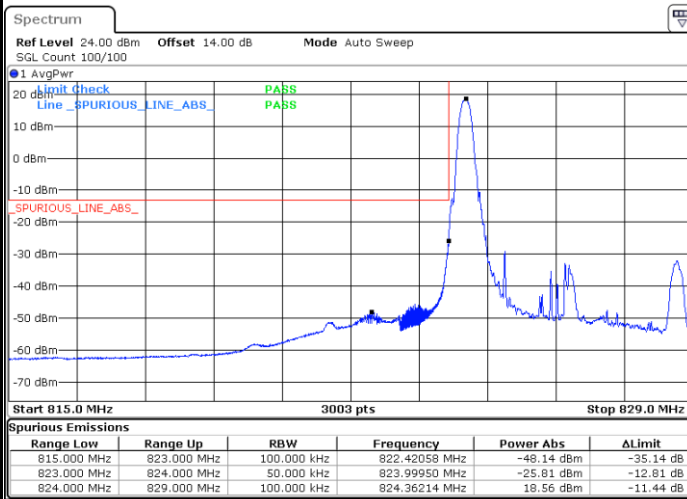


Date: 19.NOV.2020 15:52:44

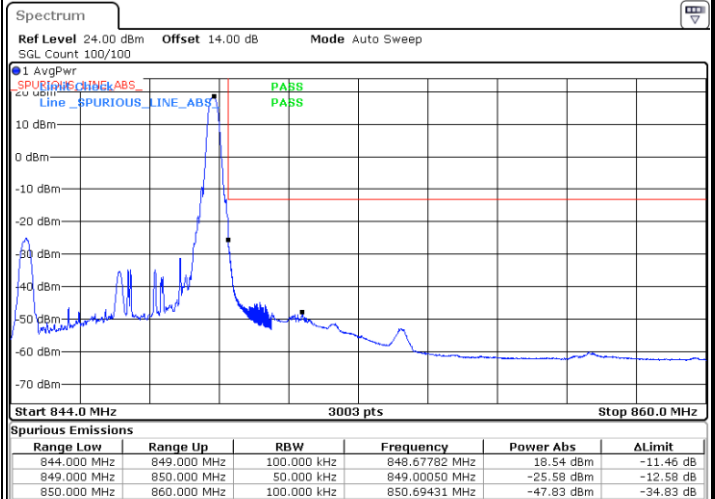


LTE Band 5 / 5MHz / 64QAM

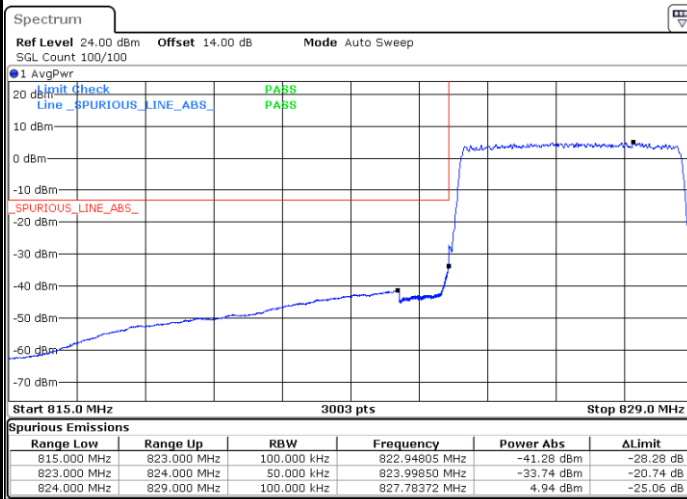
Lowest Band Edge / 1RB



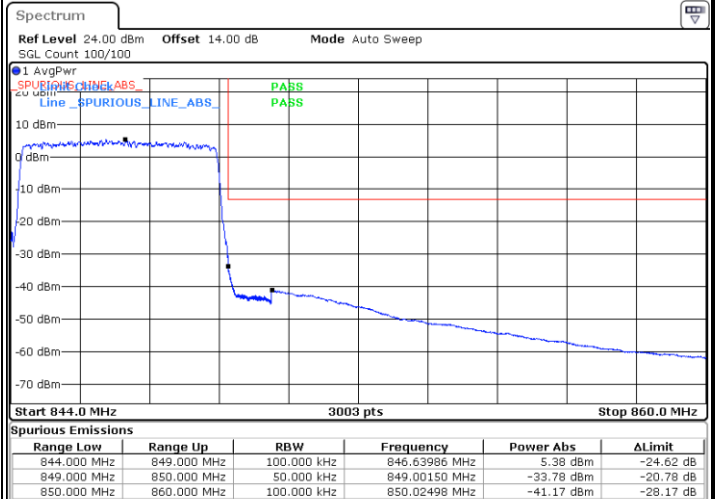
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



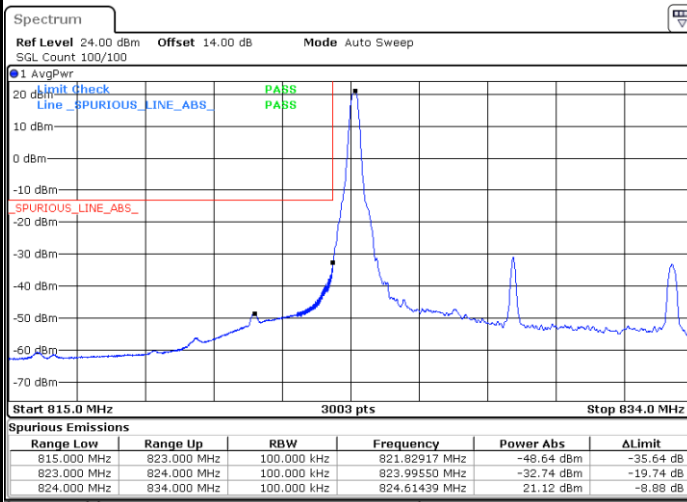
Highest Band Edge / Full RB



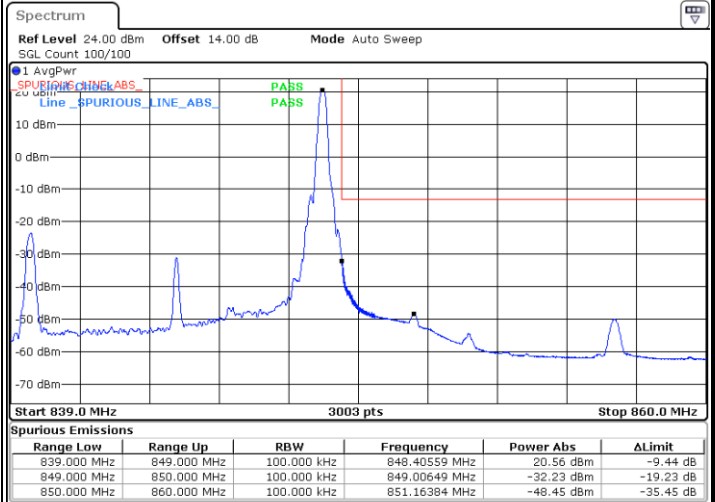


LTE Band 5 / 10MHz / QPSK

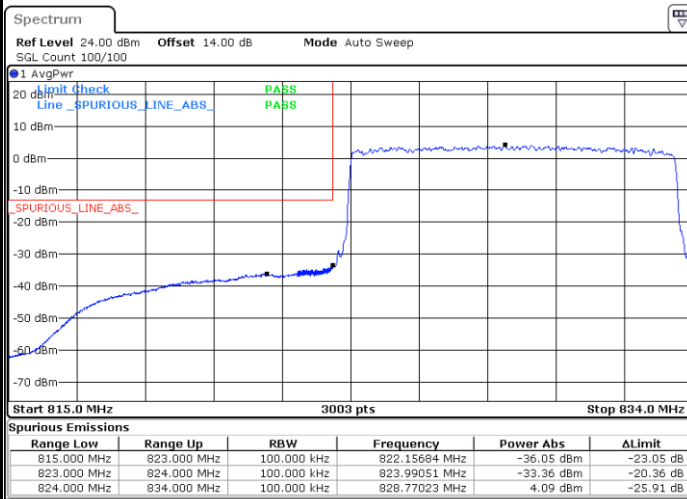
Lowest Band Edge / 1 RB



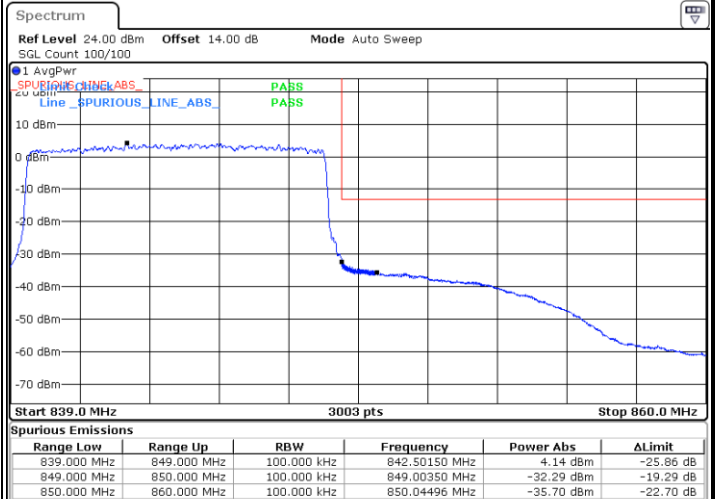
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



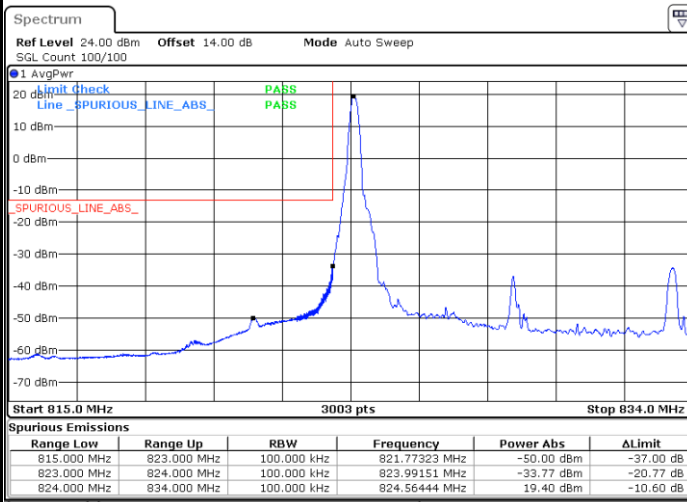
Highest Band Edge / Full RB





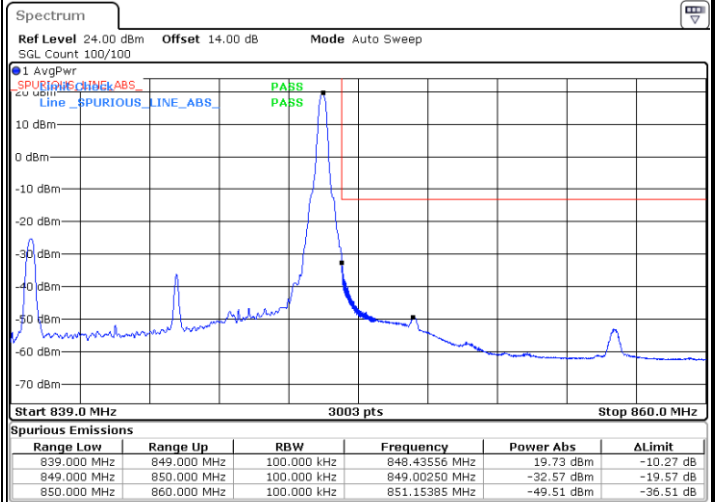
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



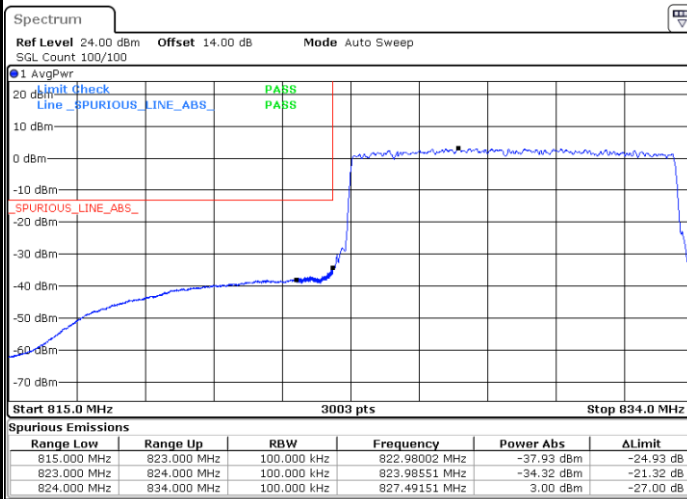
Date: 19.NOV.2020 16:14:38

Highest Band Edge / 1 RB



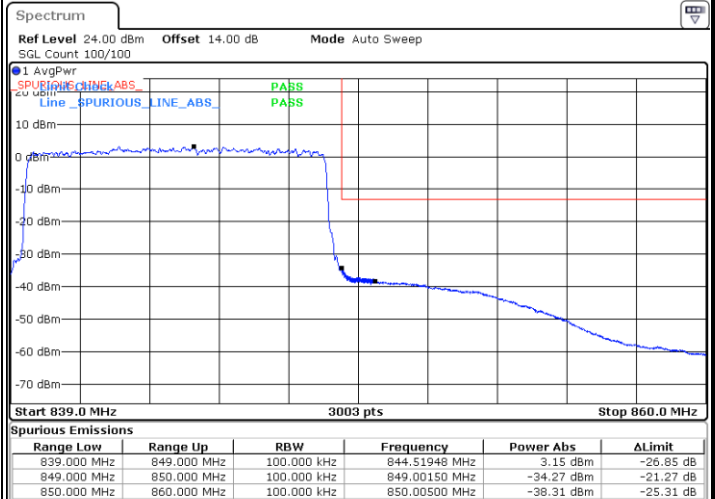
Date: 19.NOV.2020 17:12:21

Lowest Band Edge / Full RB



Date: 19.NOV.2020 16:07:38

Highest Band Edge / Full RB

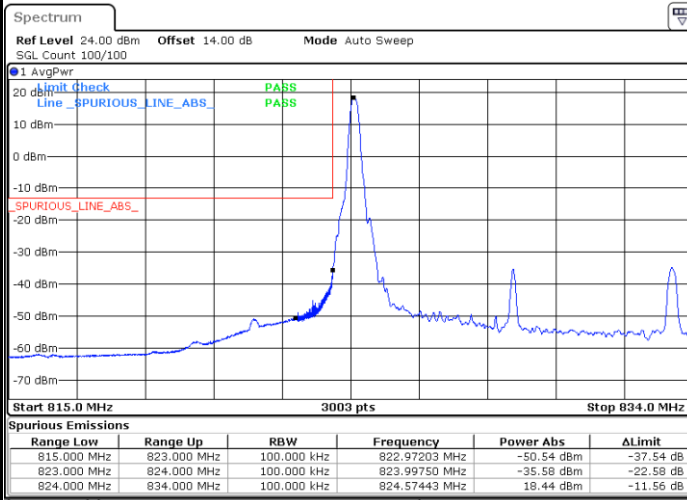


Date: 19.NOV.2020 17:09:46



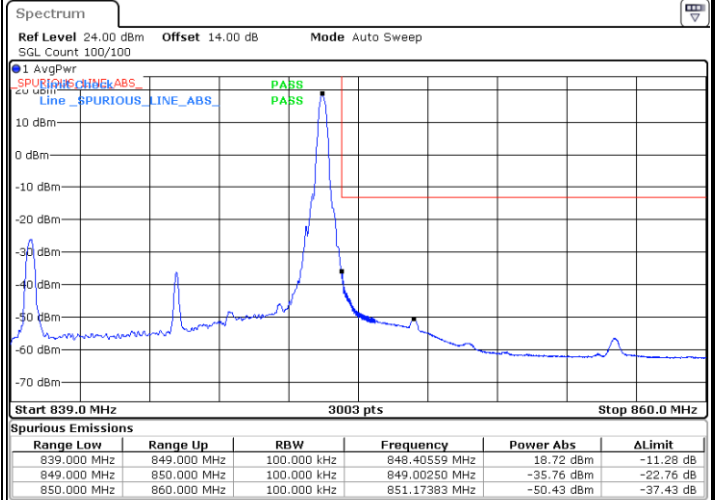
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



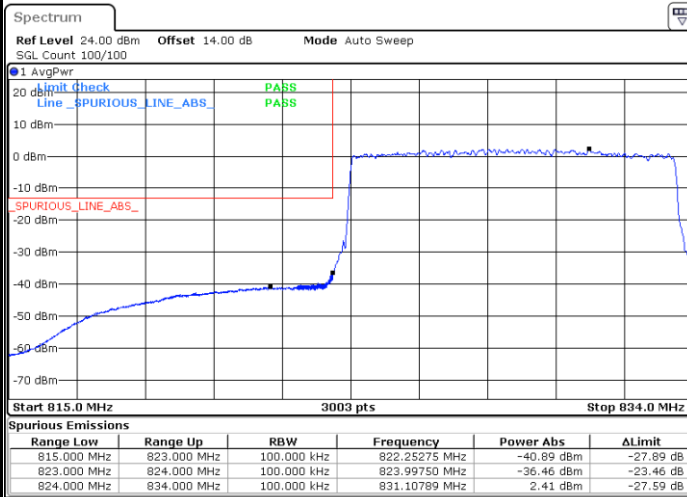
Date: 19.NOV.2020 16:10:00

Highest Band Edge / 1 RB



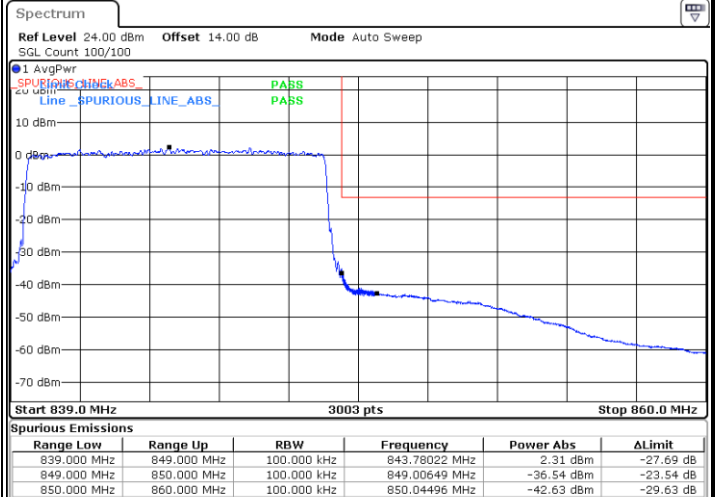
Date: 19.NOV.2020 17:13:35

Lowest Band Edge / Full RB



Date: 19.NOV.2020 16:09:20

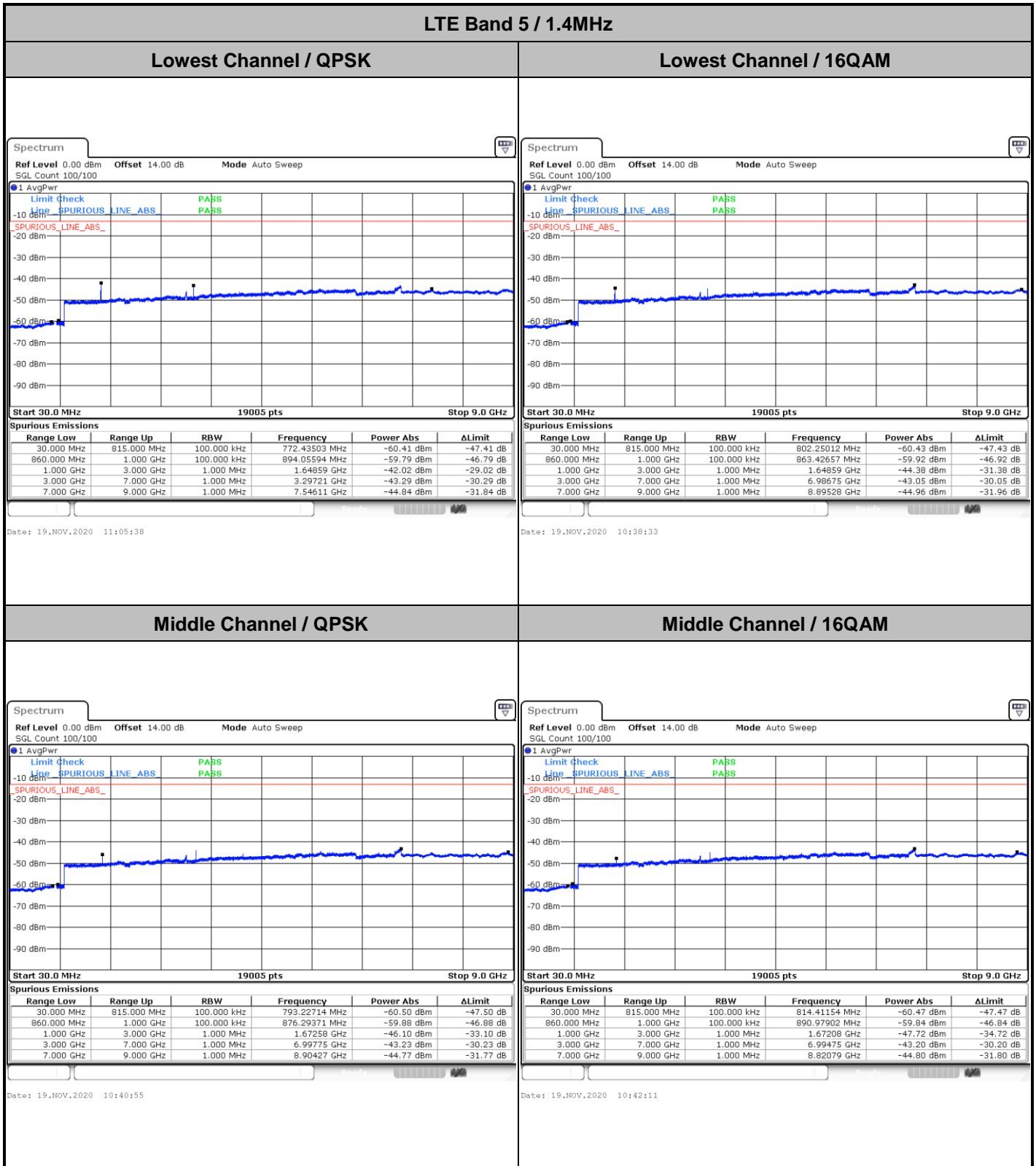
Highest Band Edge / Full RB



Date: 19.NOV.2020 17:07:18



# Conducted Spurious Emission

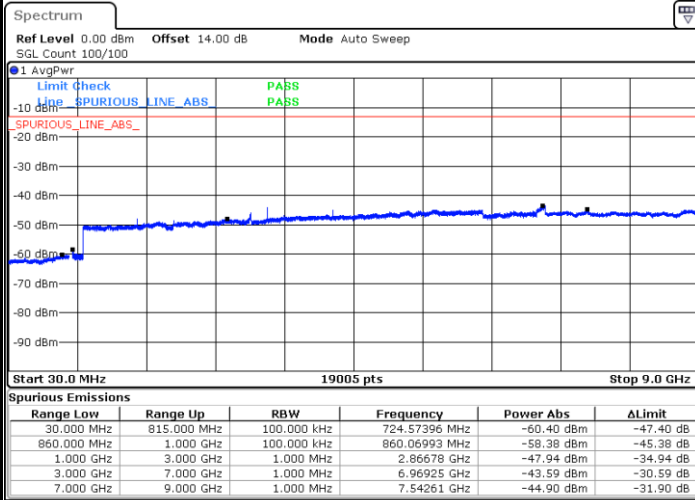






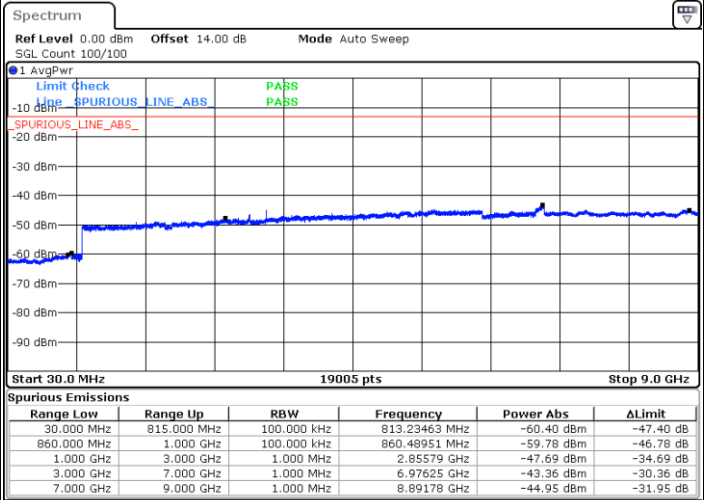
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 19.NOV.2020 11:06:27

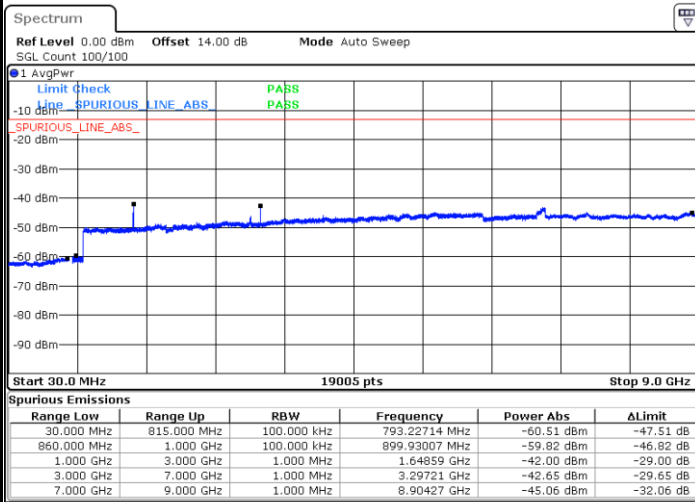
Highest Channel / 16QAM



Date: 19.NOV.2020 10:54:05

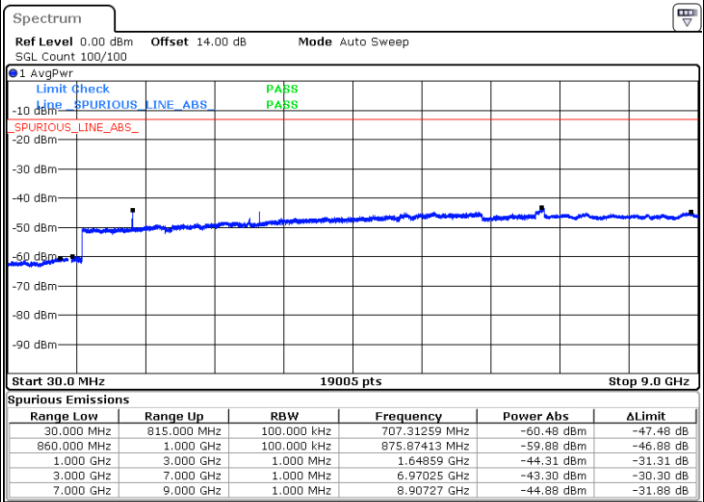
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 19.NOV.2020 14:46:46

Lowest Channel / 16QAM



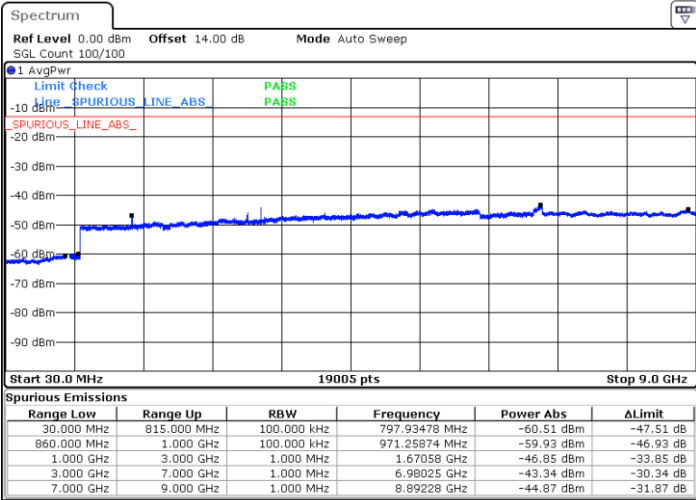
Date: 19.NOV.2020 14:44:51



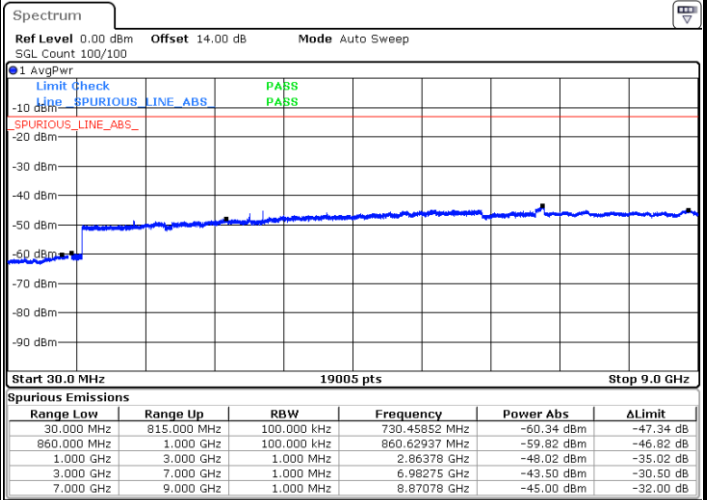
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



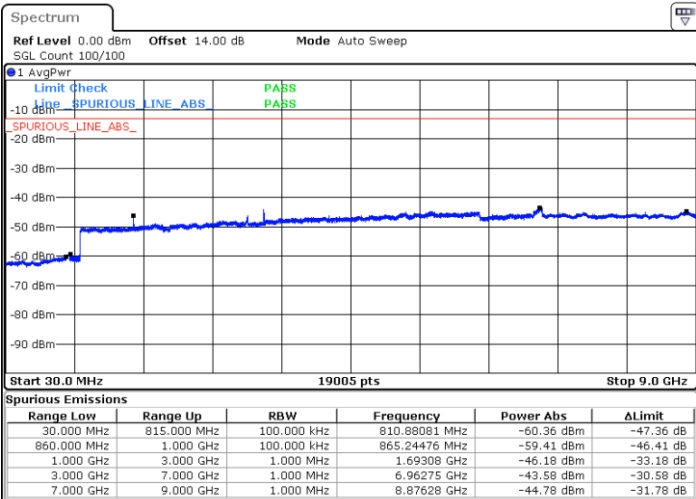
Date: 19.NOV.2020 14:48:37



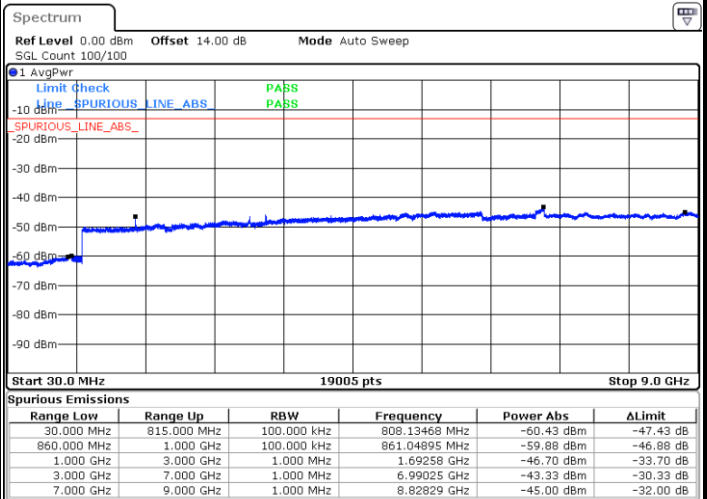
Date: 19.NOV.2020 14:49:38

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.NOV.2020 15:11:01



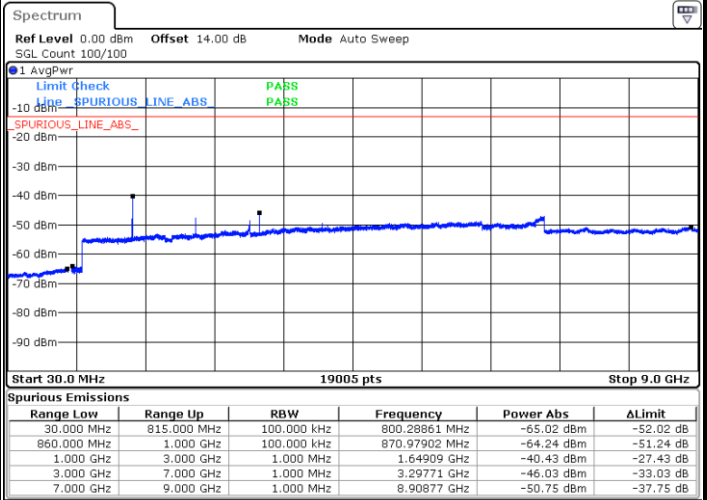
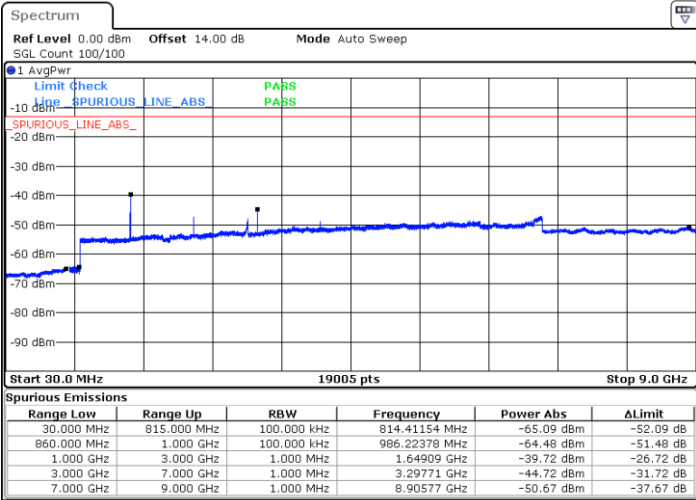
Date: 19.NOV.2020 15:09:04



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

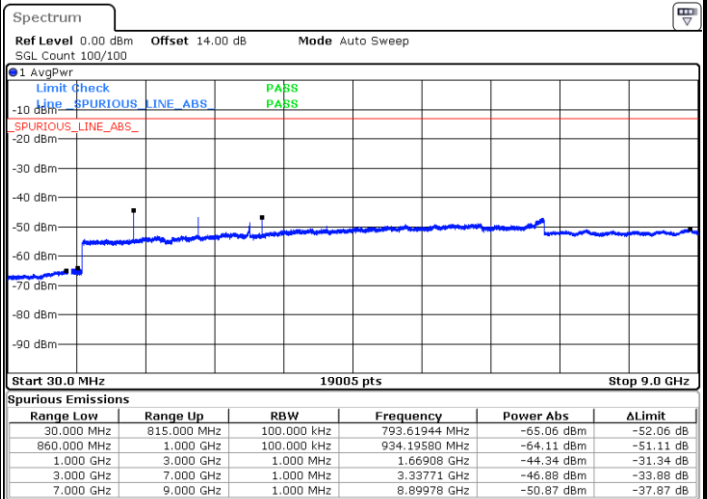
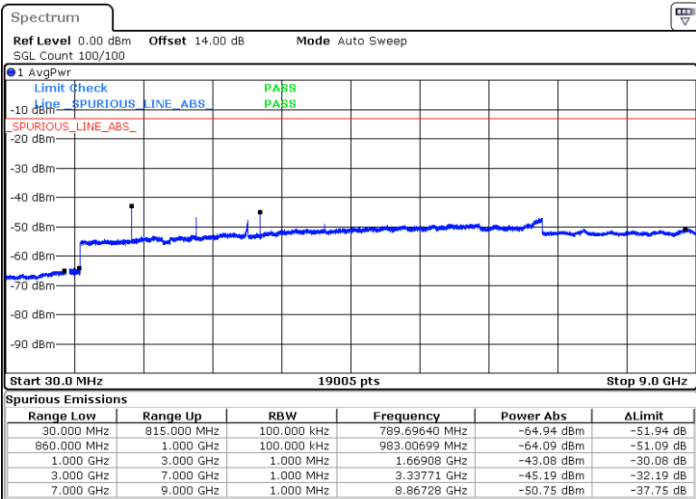


Date: 19.NOV.2020 15:31:52

Date: 19.NOV.2020 15:33:28

Middle Channel / QPSK

Middle Channel / 16QAM



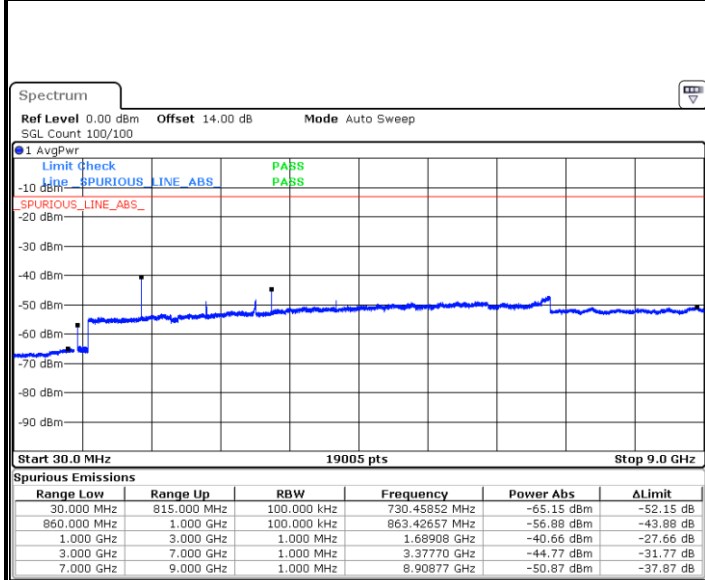
Date: 19.NOV.2020 15:41:37

Date: 19.NOV.2020 15:40:37



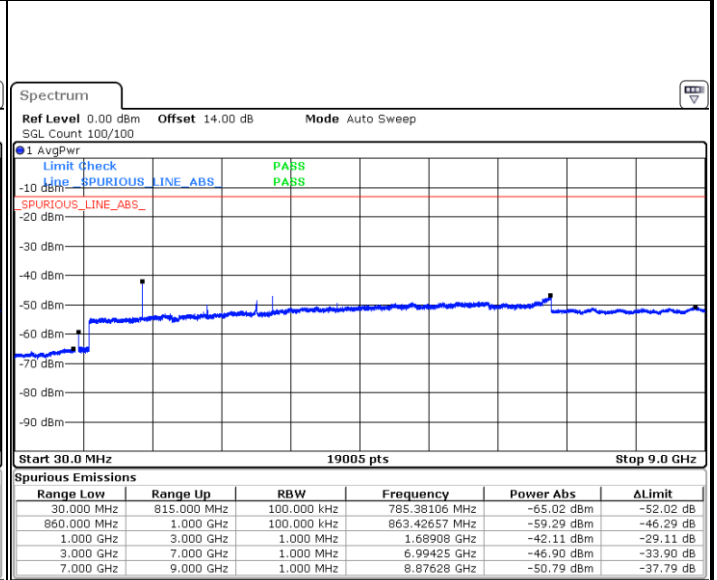
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 19.NOV.2020 16:03:49

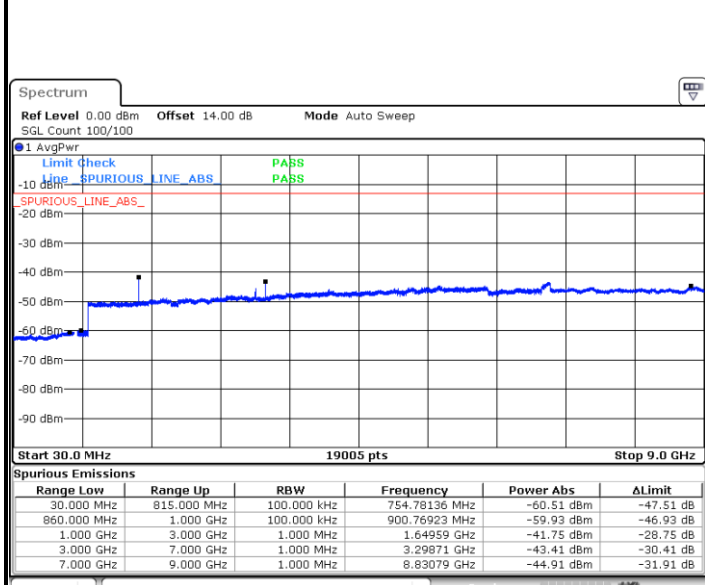
Highest Channel / 16QAM



Date: 19.NOV.2020 15:58:47

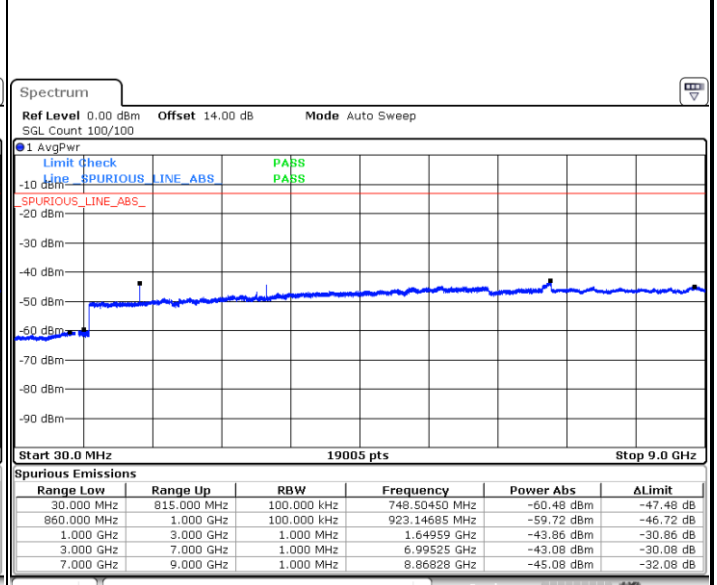
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 19.NOV.2020 16:19:15

Lowest Channel / 16QAM

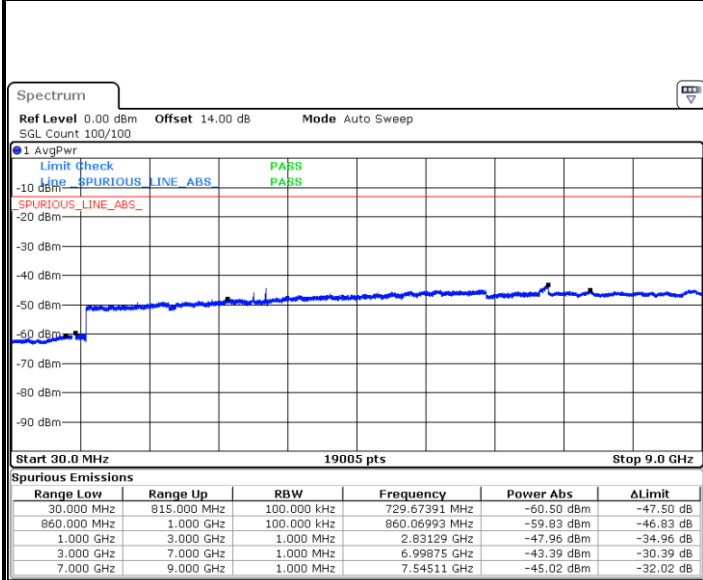


Date: 19.NOV.2020 16:15:47



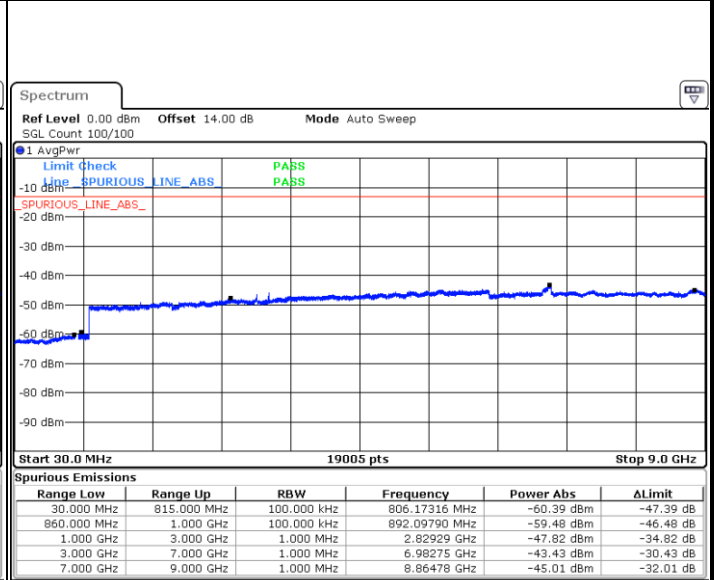
LTE Band 5 / 10MHz

Middle Channel / QPSK



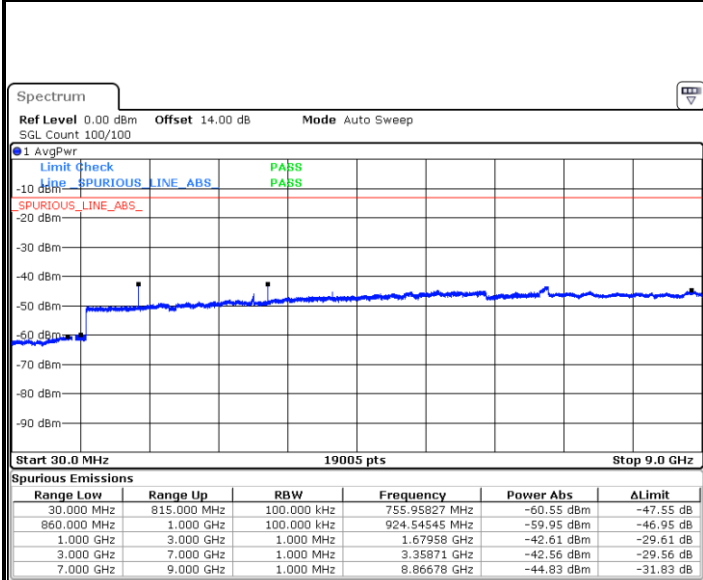
Date: 19.NOV.2020 16:29:26

Middle Channel / 16QAM



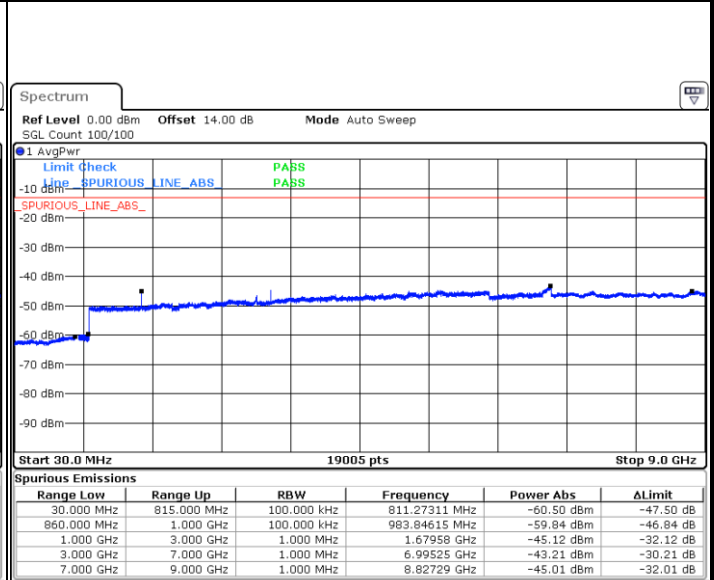
Date: 19.NOV.2020 16:27:06

Highest Channel / QPSK



Date: 19.NOV.2020 16:57:56

Highest Channel / 16QAM



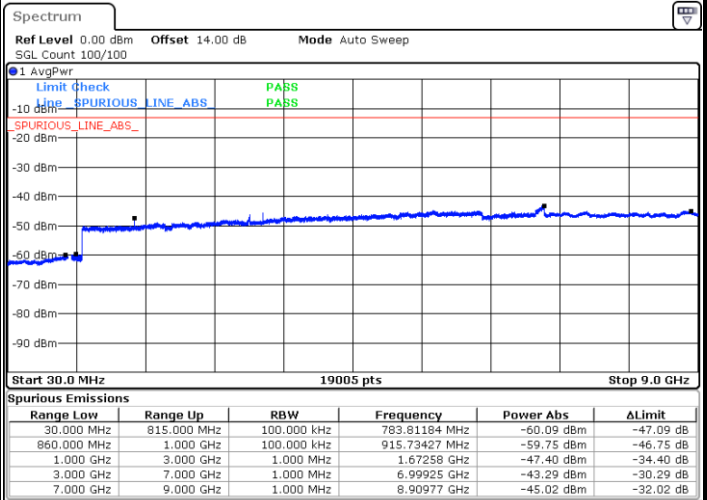
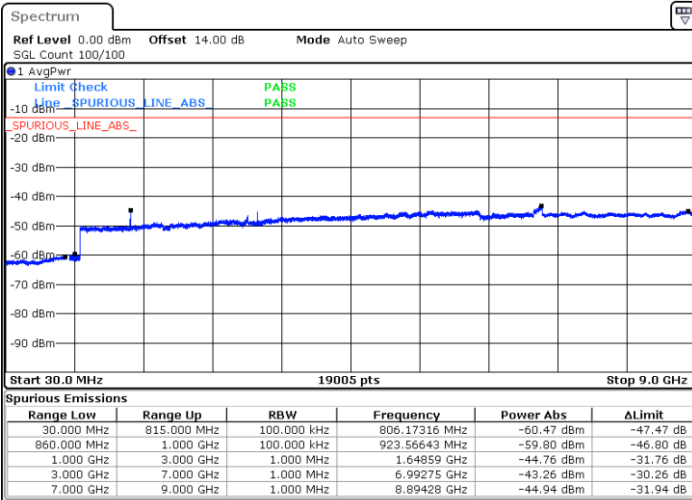
Date: 19.NOV.2020 17:02:41



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

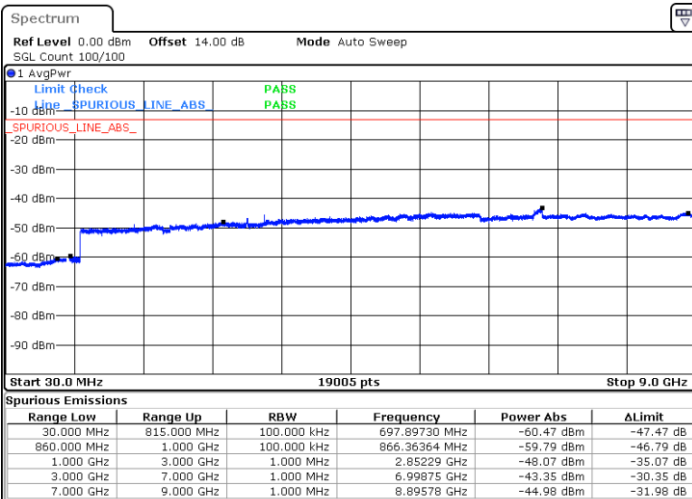
Middle Channel / 64QAM



Date: 19.NOV.2020 10:36:00

Date: 19.NOV.2020 10:43:21

Highest Channel / 64QAM

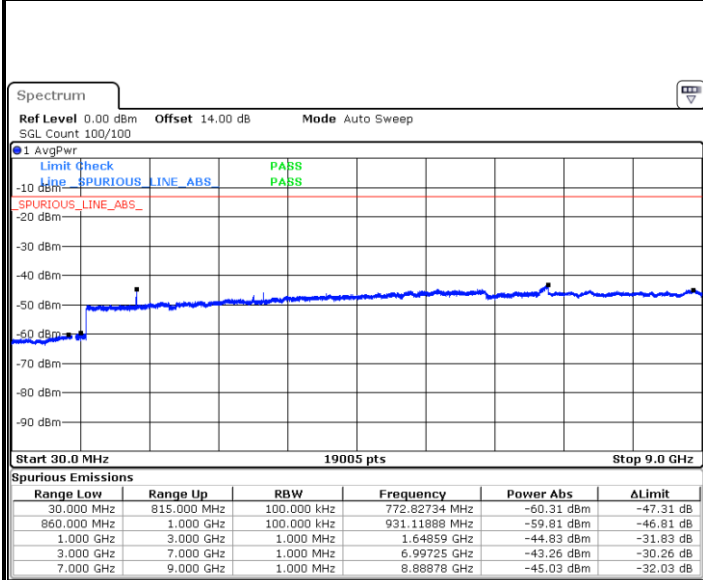


Date: 19.NOV.2020 10:52:55



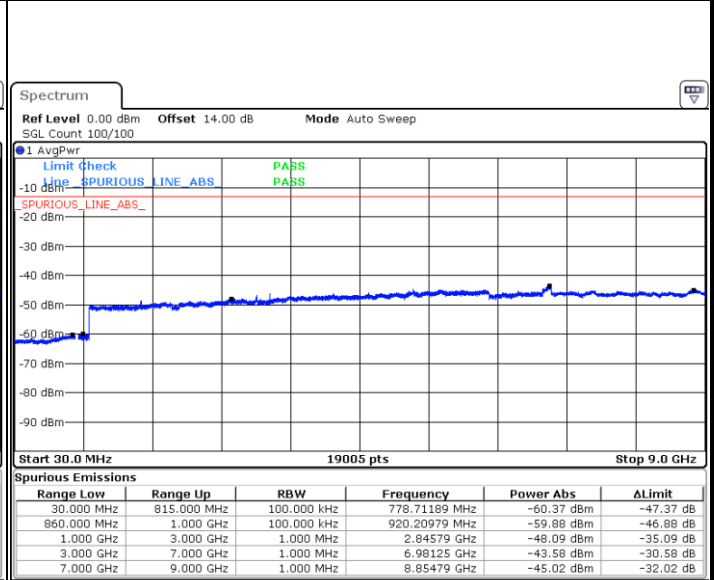
**LTE Band 5 / 3MHz**

**Lowest Channel / 64QAM**



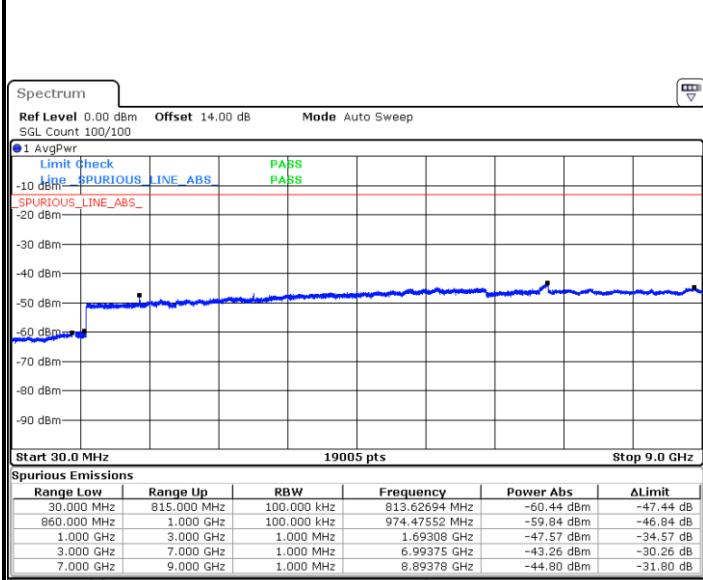
Date: 19.NOV.2020 14:42:42

**Middle Channel / 64QAM**



Date: 19.NOV.2020 14:50:46

**Highest Channel / 64QAM**



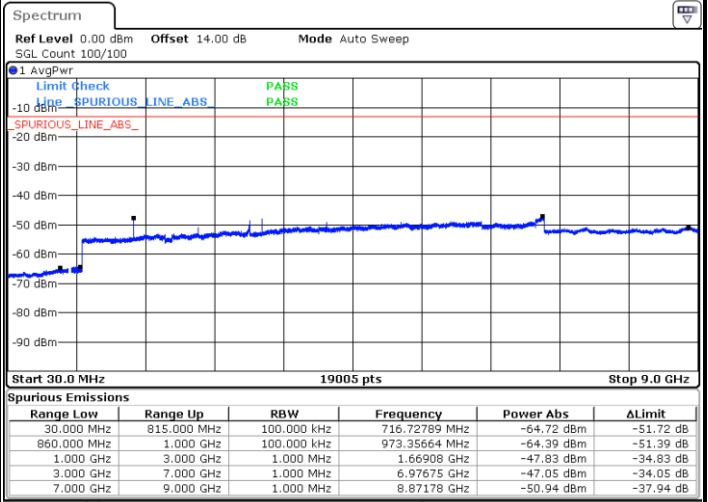
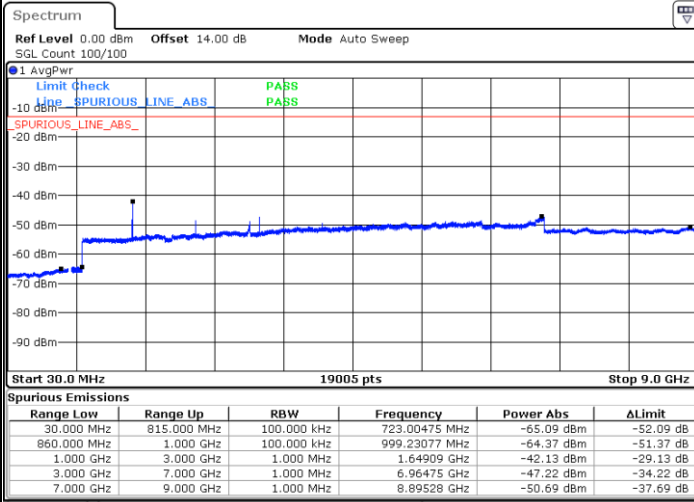
Date: 19.NOV.2020 14:58:54



LTE Band 5 / 5MHz

Lowest Channel / 64QAM

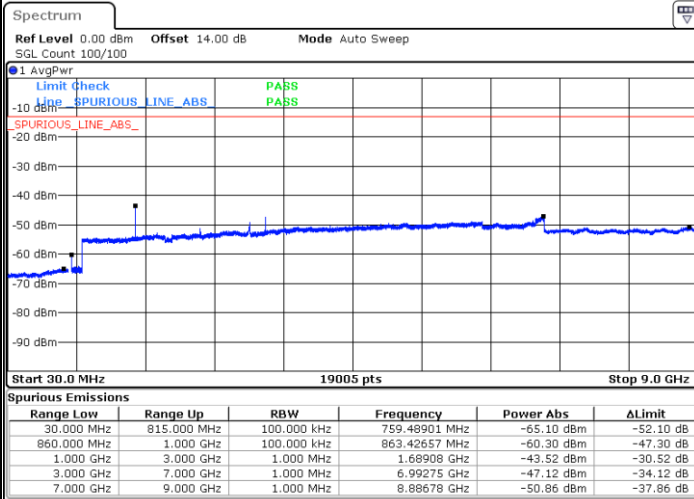
Middle Channel / 64QAM



Date: 19.NOV.2020 15:35:51

Date: 19.NOV.2020 15:39:31

Highest Channel / 64QAM



Date: 19.NOV.2020 15:57:49

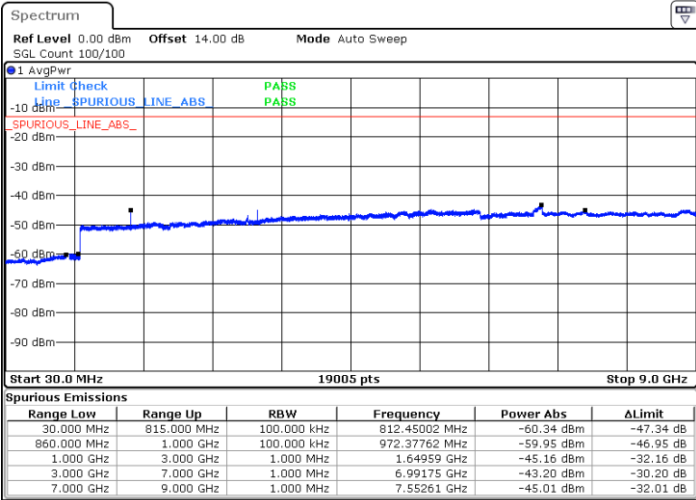




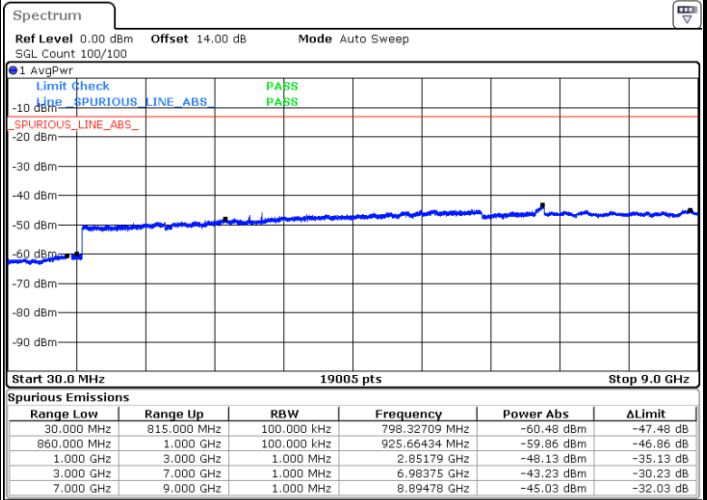
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

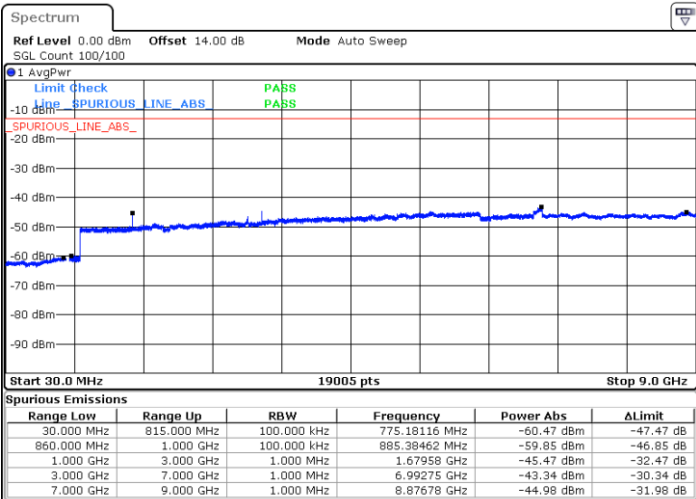


Date: 19.NOV.2020 16:10:42



Date: 19.NOV.2020 16:26:14

Highest Channel / 64QAM



Date: 19.NOV.2020 17:05:39



### 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	0.0002	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

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



# LTE Band 66

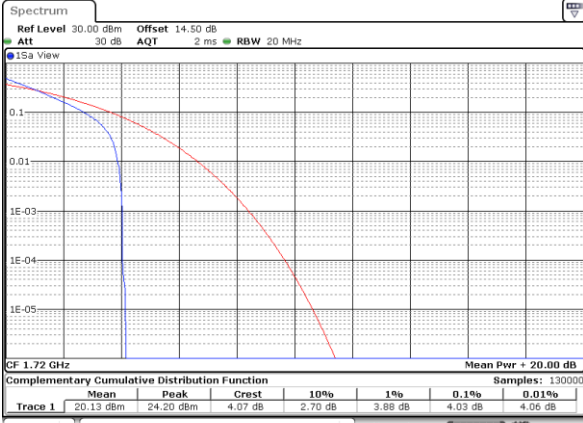
## Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	4.78	5.19	5.88	<b>PASS</b>
Middle CH	3.91	4.64	5.01	5.74	
Highest CH	4.55	4.67	5.25	5.71	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.68	6.38	-	-	<b>PASS</b>
Middle CH	5.94	6.20	-	-	
Highest CH	6.26	6.29	-	-	



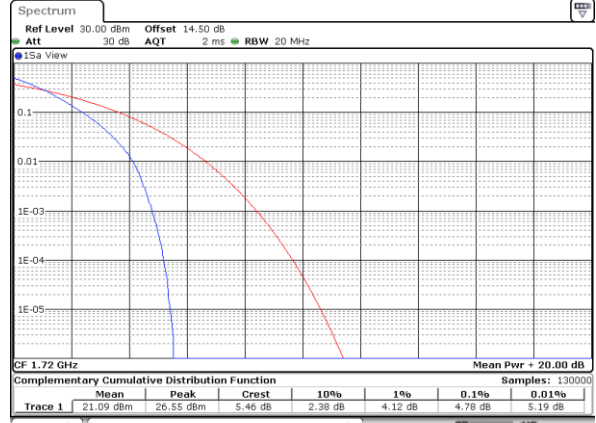
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



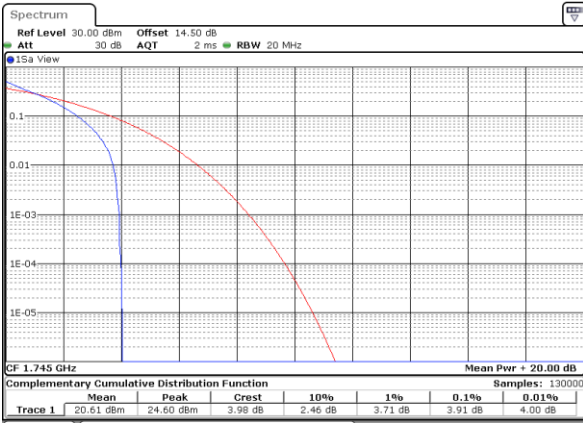
Date: 19\_NOV.2020 21:20:10

Lowest Channel / Full RB



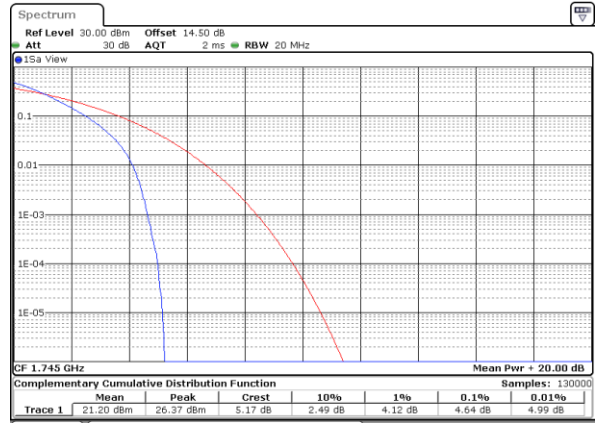
Date: 19\_NOV.2020 21:07:43

Middle Channel / 1RB



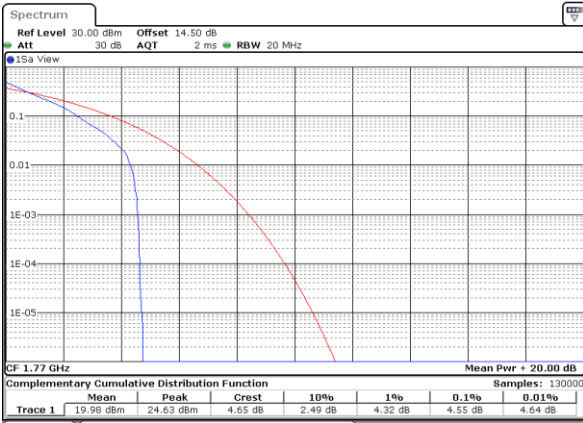
Date: 19\_NOV.2020 21:24:46

Middle Channel / Full RB



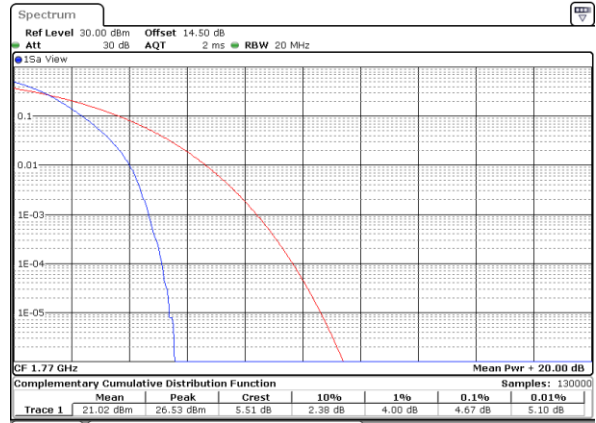
Date: 19\_NOV.2020 21:13:16

Highest Channel / 1RB



Date: 19\_NOV.2020 22:02:42

Highest Channel / Full RB

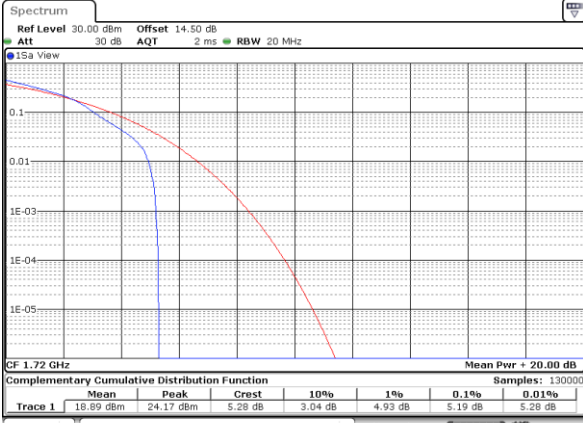


Date: 19\_NOV.2020 21:13:129



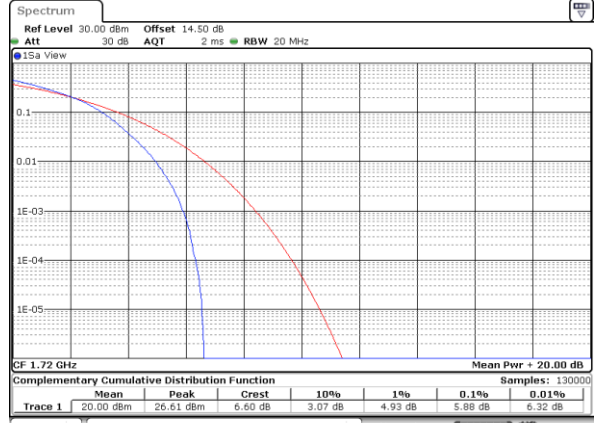
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



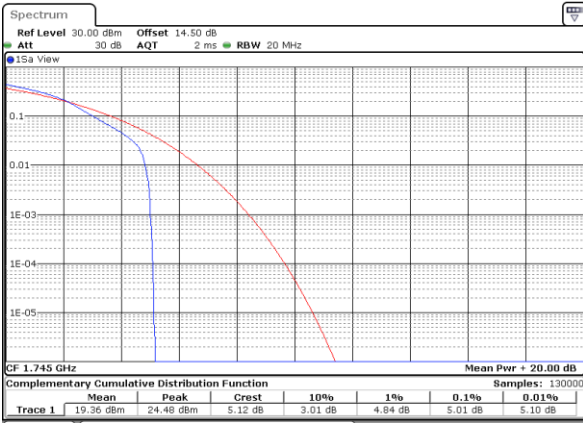
Date: 19\_NOV.2020 21:17:31

Lowest Channel / Full RB



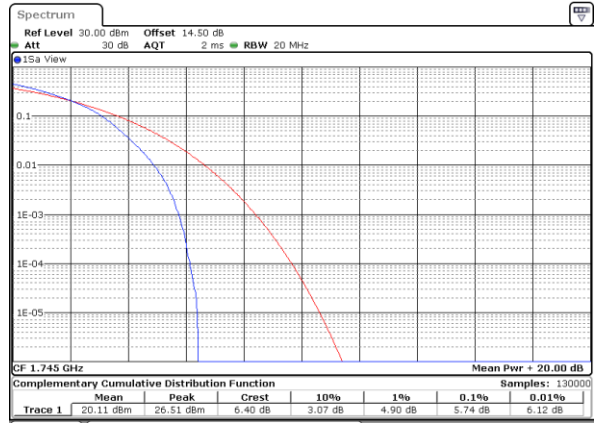
Date: 19\_NOV.2020 21:08:28

Middle Channel / 1RB



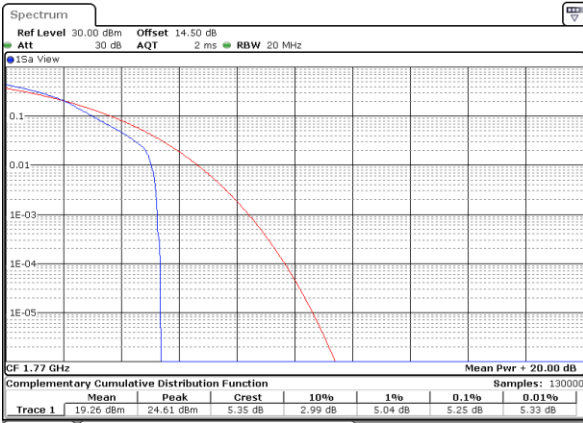
Date: 19\_NOV.2020 21:25:49

Middle Channel / Full RB



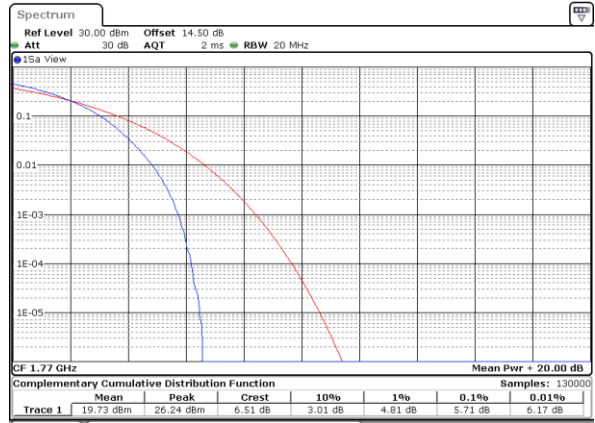
Date: 19\_NOV.2020 21:29:47

Highest Channel / 1RB



Date: 19\_NOV.2020 22:01:40

Highest Channel / Full RB

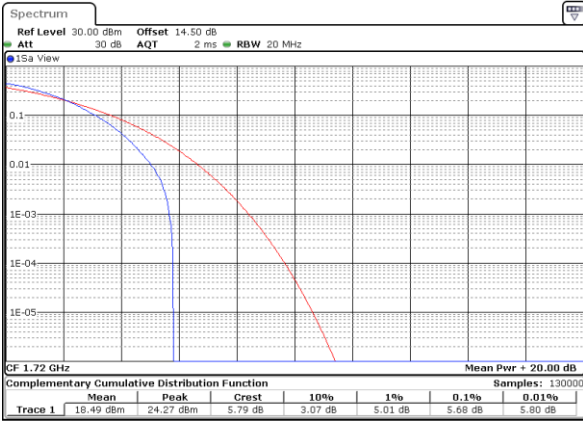


Date: 19\_NOV.2020 21:54:27



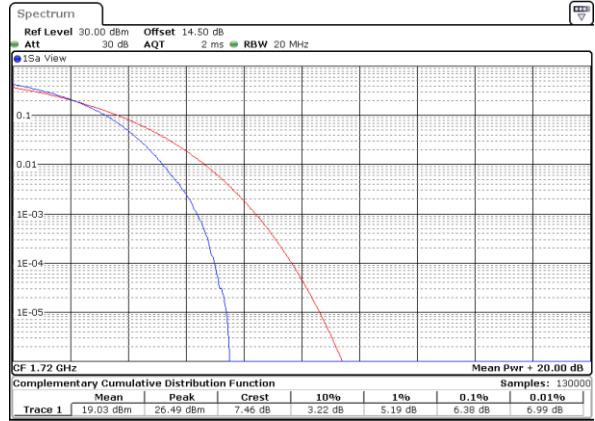
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 19\_NOV.2020 21:11:12

Lowest Channel / Full RB



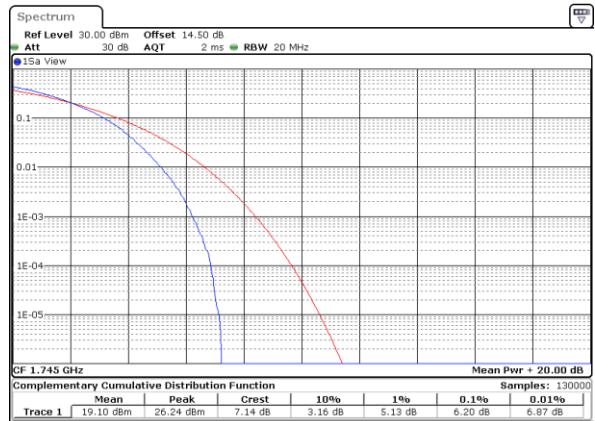
Date: 19\_NOV.2020 21:09:33

Middle Channel / 1RB



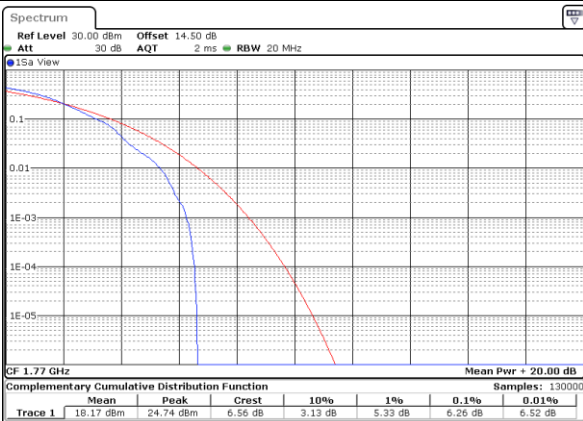
Date: 19\_NOV.2020 21:26:57

Middle Channel / Full RB



Date: 19\_NOV.2020 21:29:28

Highest Channel / 1RB



Date: 19\_NOV.2020 22:00:53

Highest Channel / Full RB



Date: 19\_NOV.2020 21:54:10



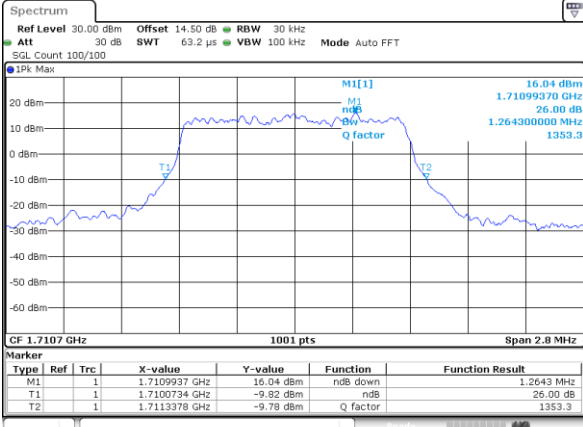
26dB Bandwidth

Mode	LTE Band 66 : 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	1.26	1.28	3.05	3.03	4.94	4.86	9.89	9.85	14.09	14.30	18.86	18.90
Middle CH	1.32	1.28	3.00	2.97	4.96	4.91	9.85	9.79	14.33	14.54	18.86	18.86
Highest CH	1.31	1.27	3.00	2.99	4.87	4.84	9.79	9.77	14.18	14.63	18.90	19.02
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.30	-	3.00	-	4.85	-	9.77	-	14.39	-	19.30	-
Middle CH	1.27	-	2.95	-	4.89	-	9.83	-	14.57	-	19.30	-
Highest CH	1.29	-	2.97	-	4.91	-	9.71	-	14.30	-	18.86	-



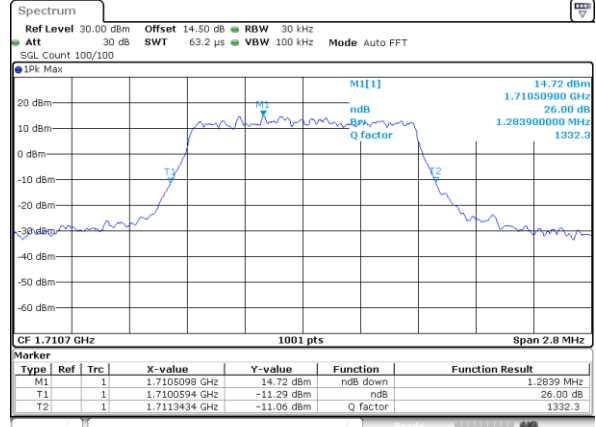
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



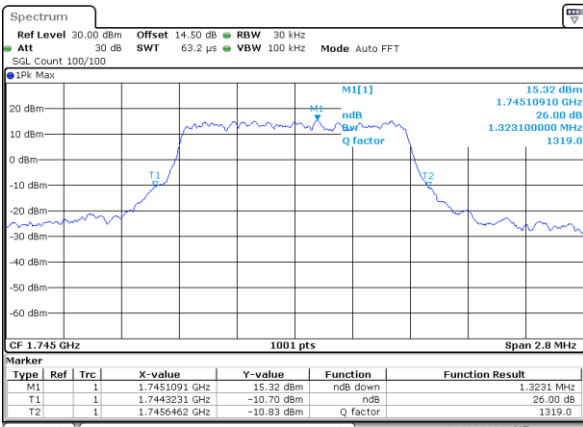
Date: 19\_NOV.2020 18:33:09

Lowest Channel / 1.4MHz / 16QAM



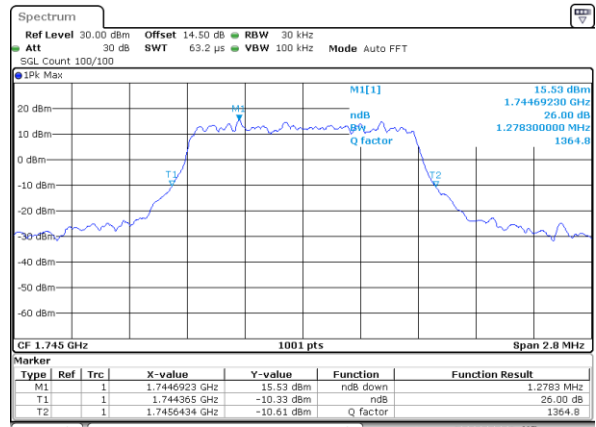
Date: 19\_NOV.2020 18:35:09

Middle Channel / 1.4MHz / QPSK



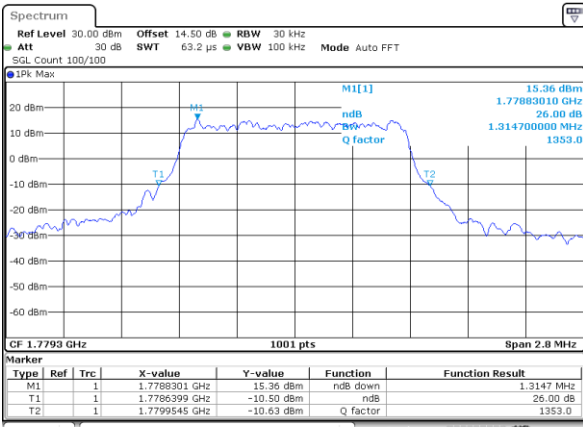
Date: 19\_NOV.2020 18:45:07

Middle Channel / 1.4MHz / 16QAM



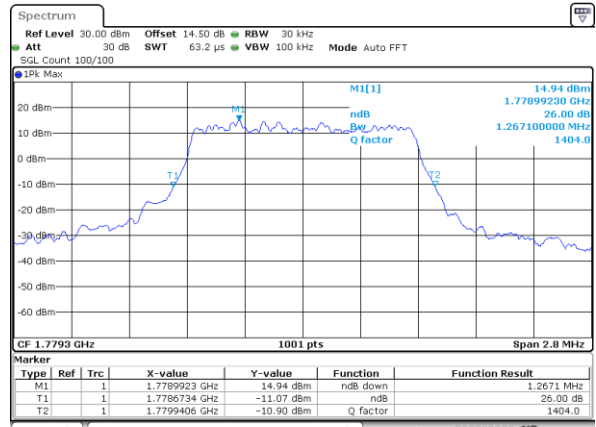
Date: 19\_NOV.2020 18:46:21

Highest Channel / 1.4MHz / QPSK



Date: 19\_NOV.2020 18:58:23

Highest Channel / 1.4MHz / 16QAM



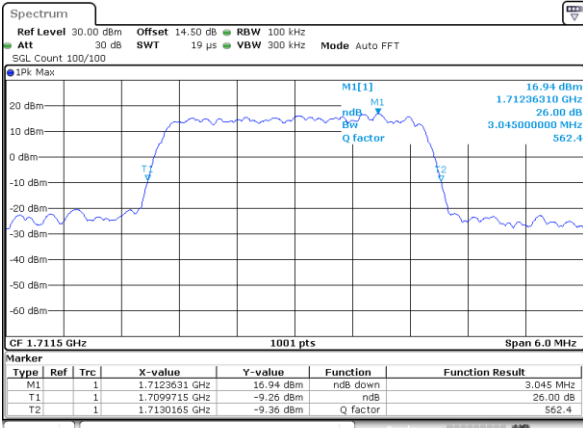
Date: 19\_NOV.2020 18:56:27





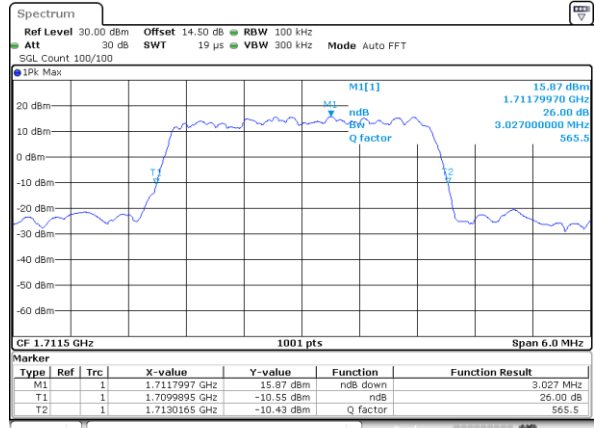
LTE Band 66

Lowest Channel / 3MHz / QPSK



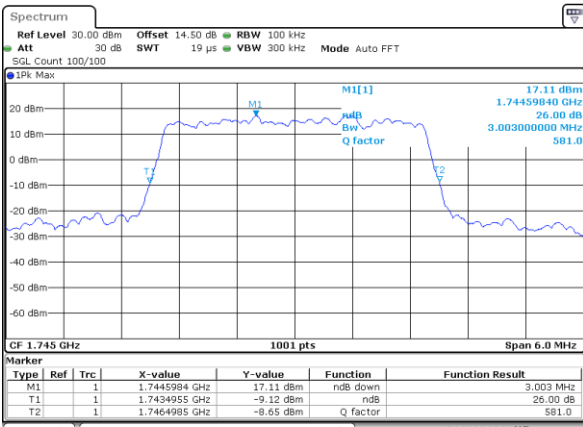
Date: 19\_NOV.2020 19:06:13

Lowest Channel / 3MHz / 16QAM



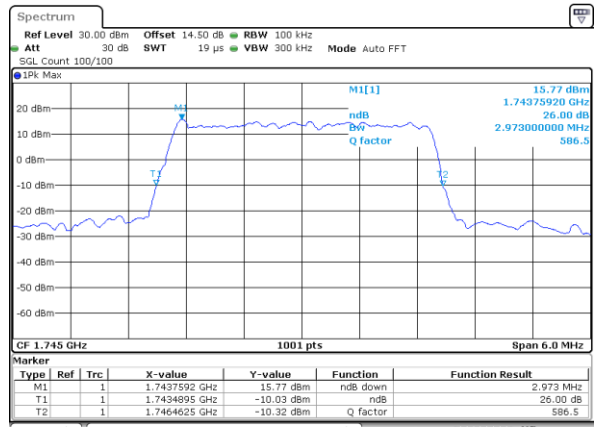
Date: 19\_NOV.2020 19:08:02

Middle Channel / 3MHz / QPSK



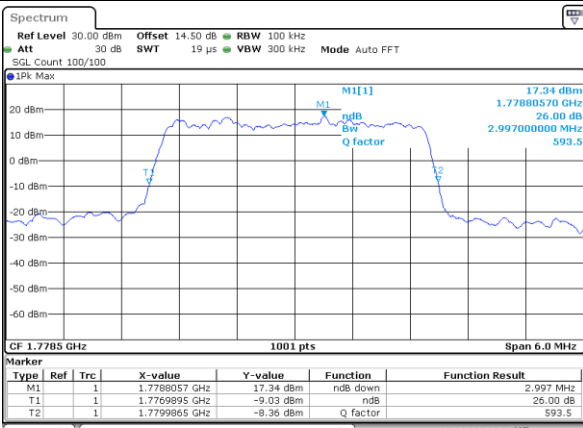
Date: 19\_NOV.2020 19:22:40

Middle Channel / 3MHz / 16QAM



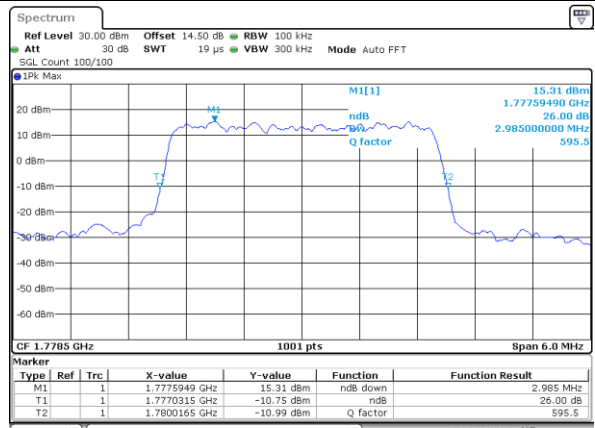
Date: 19\_NOV.2020 19:22:04

Highest Channel / 3MHz / QPSK



Date: 19\_NOV.2020 19:28:24

Highest Channel / 3MHz / 16QAM

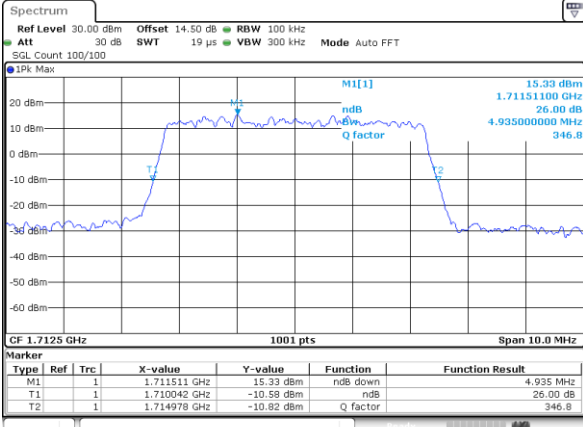


Date: 19\_NOV.2020 19:29:59



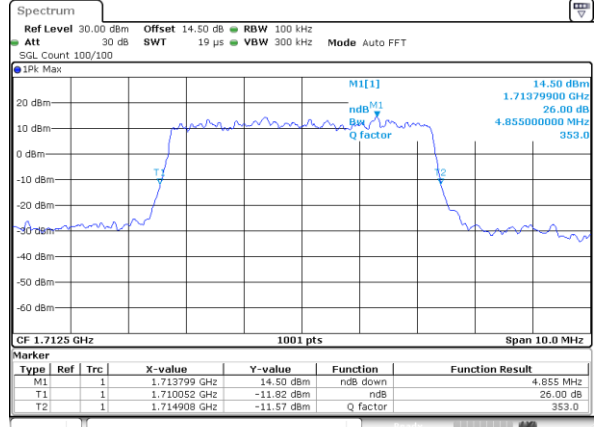
LTE Band 66

Lowest Channel / 5MHz / QPSK



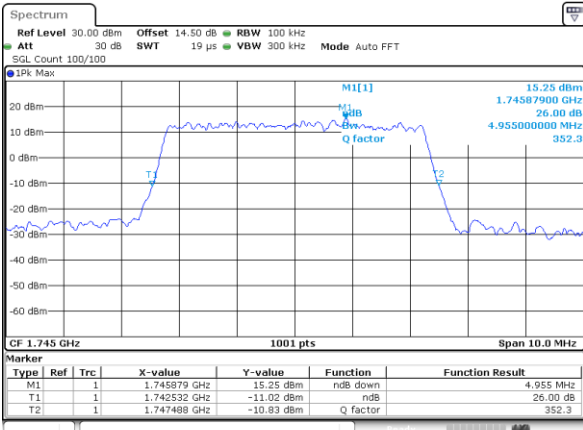
Date: 19,NOV,2020 19:41:10

Lowest Channel / 5MHz / 16QAM



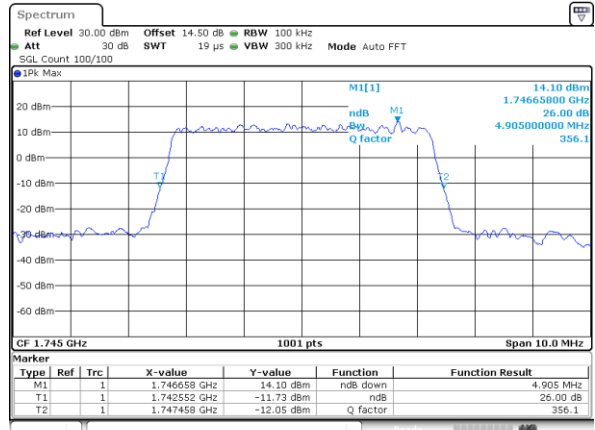
Date: 19,NOV,2020 19:42:05

Middle Channel / 5MHz / QPSK



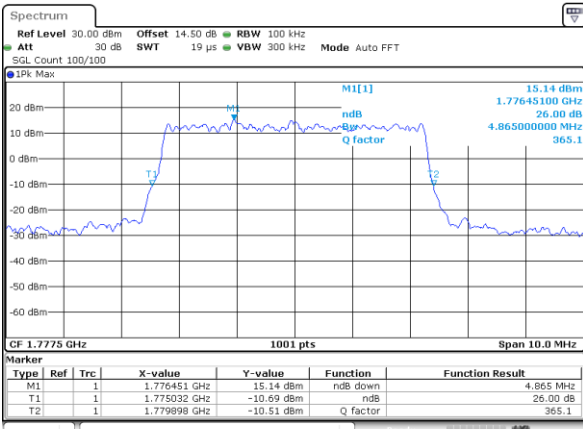
Date: 19,NOV,2020 19:55:19

Middle Channel / 5MHz / 16QAM



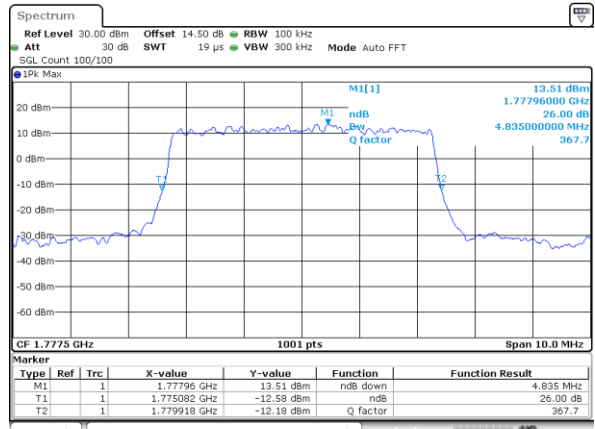
Date: 19,NOV,2020 19:53:40

Highest Channel / 5MHz / QPSK



Date: 19,NOV,2020 19:57:13

Highest Channel / 5MHz / 16QAM

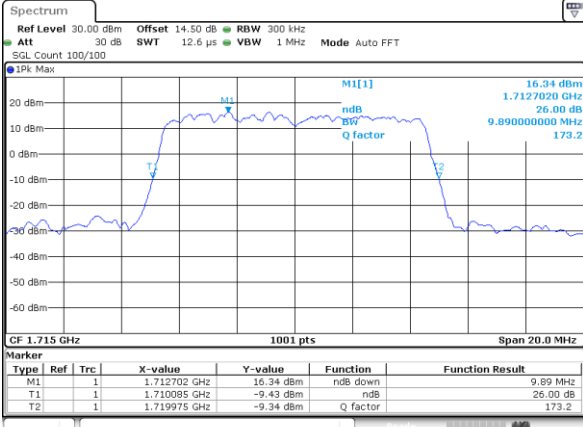


Date: 19,NOV,2020 19:57:59



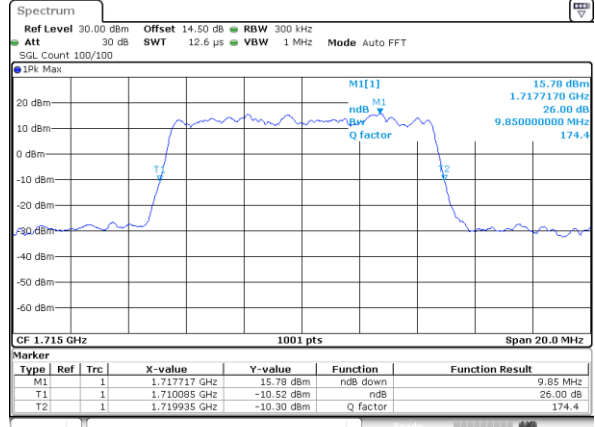
LTE Band 66

Lowest Channel / 10MHz / QPSK



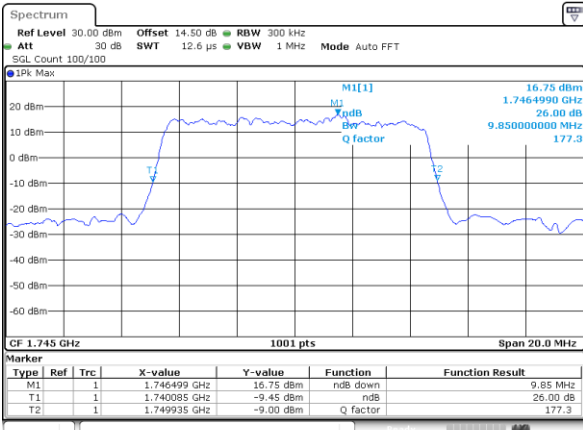
Date: 19\_NOV.2020 20:16:04

Lowest Channel / 10MHz / 16QAM



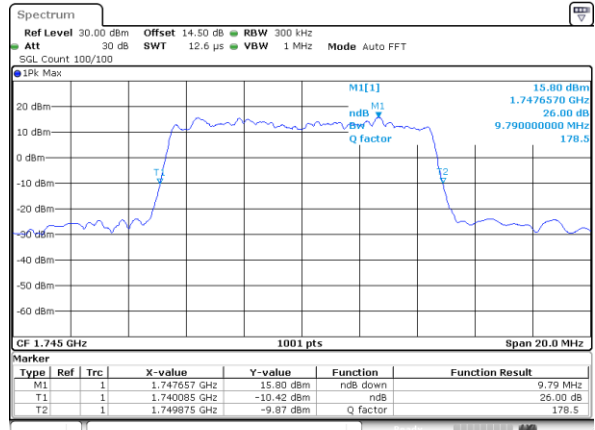
Date: 19\_NOV.2020 20:16:37

Middle Channel / 10MHz / QPSK



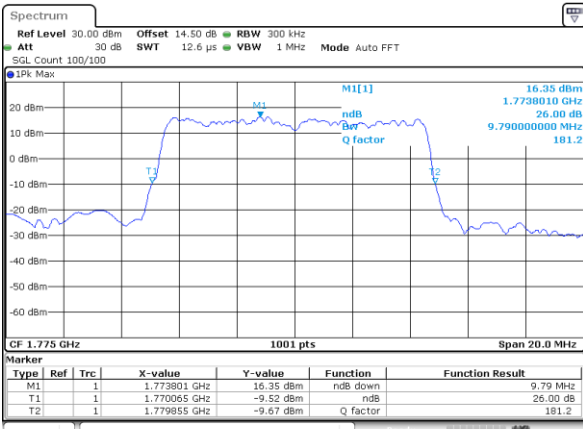
Date: 19\_NOV.2020 20:25:08

Middle Channel / 10MHz / 16QAM



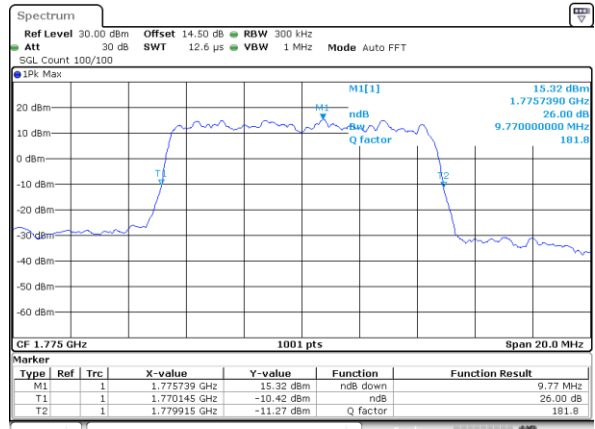
Date: 19\_NOV.2020 20:25:26

Highest Channel / 10MHz / QPSK



Date: 19\_NOV.2020 20:27:39

Highest Channel / 10MHz / 16QAM

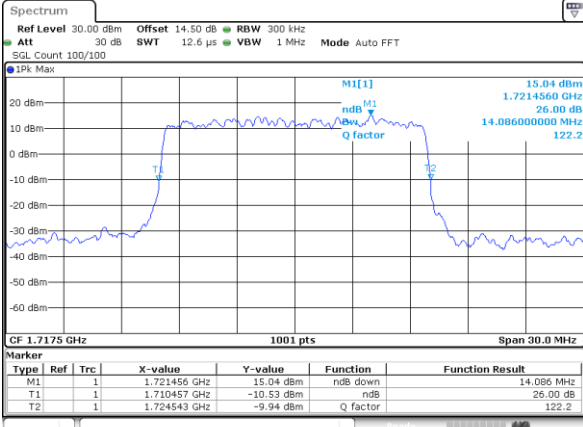


Date: 19\_NOV.2020 20:28:36



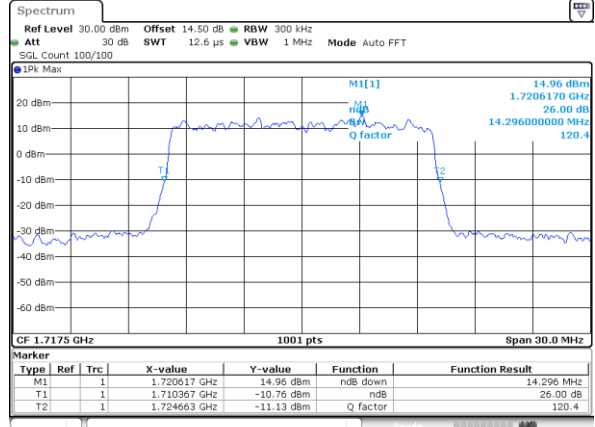
LTE Band 66

Lowest Channel / 15MHz / QPSK



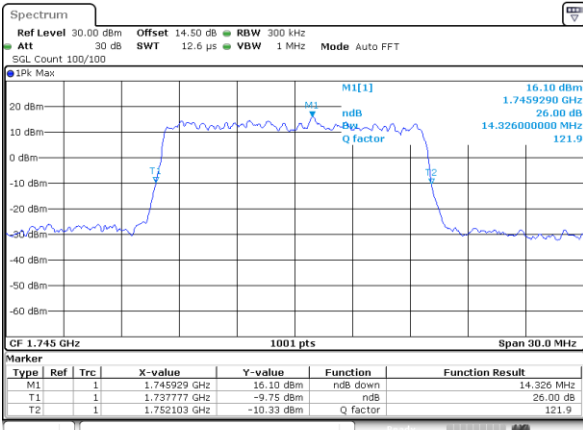
Date: 19\_NOV.2020 20:36:17

Lowest Channel / 15MHz / 16QAM



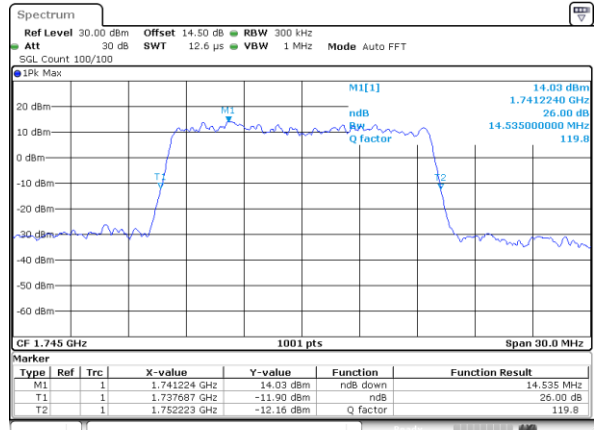
Date: 19\_NOV.2020 20:37:40

Middle Channel / 15MHz / QPSK



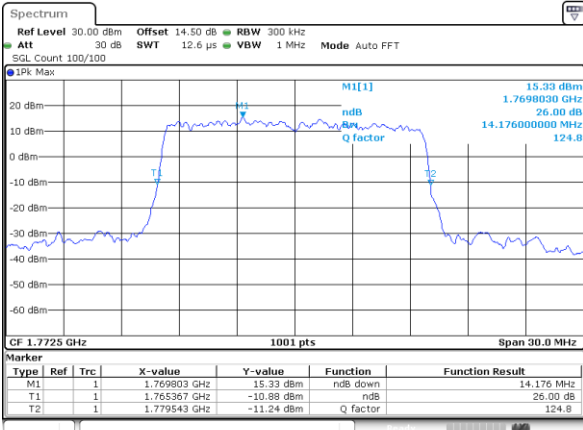
Date: 19\_NOV.2020 20:51:19

Middle Channel / 15MHz / 16QAM



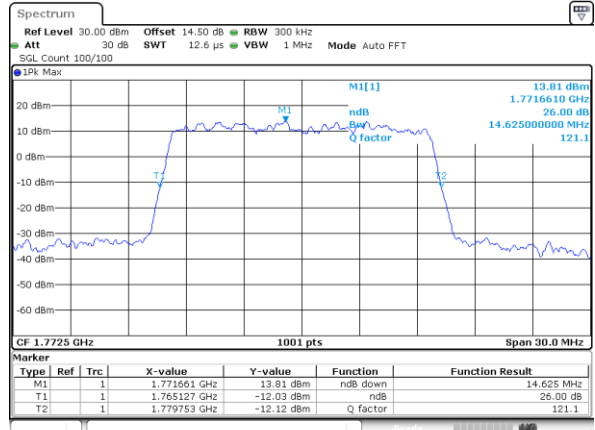
Date: 19\_NOV.2020 20:50:46

Highest Channel / 15MHz / QPSK



Date: 19\_NOV.2020 20:52:18

Highest Channel / 15MHz / 16QAM



Date: 19\_NOV.2020 20:53:14