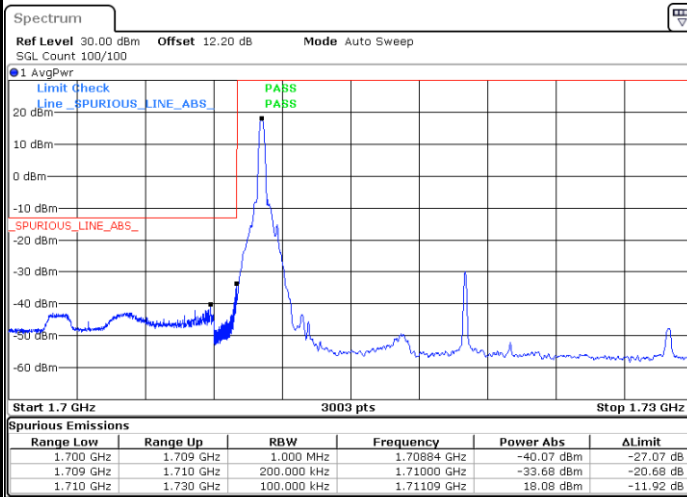




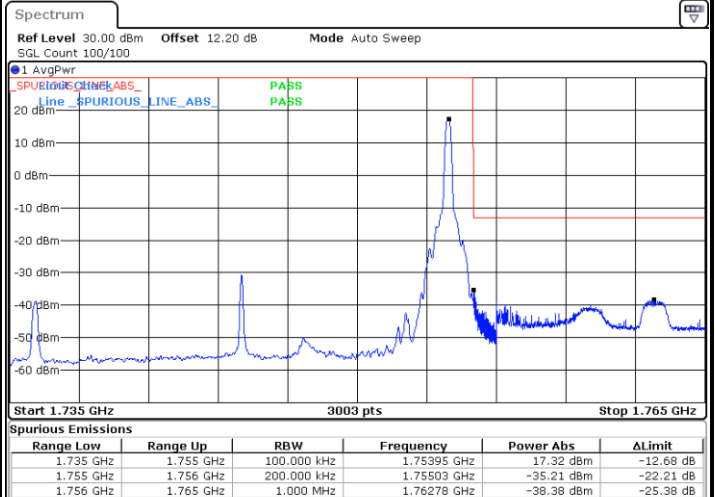
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



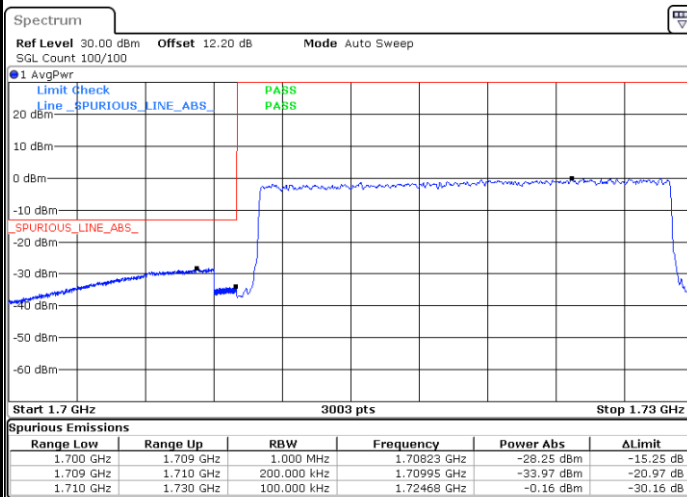
Date: 11 AUG 2020 18:49:32

Highest Band Edge / 1 RB



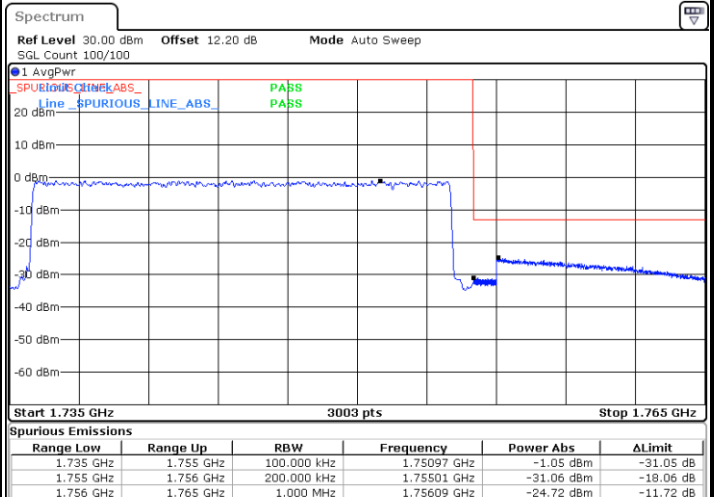
Date: 11 AUG 2020 18:53:42

Lowest Band Edge / Full RB



Date: 11 AUG 2020 18:50:32

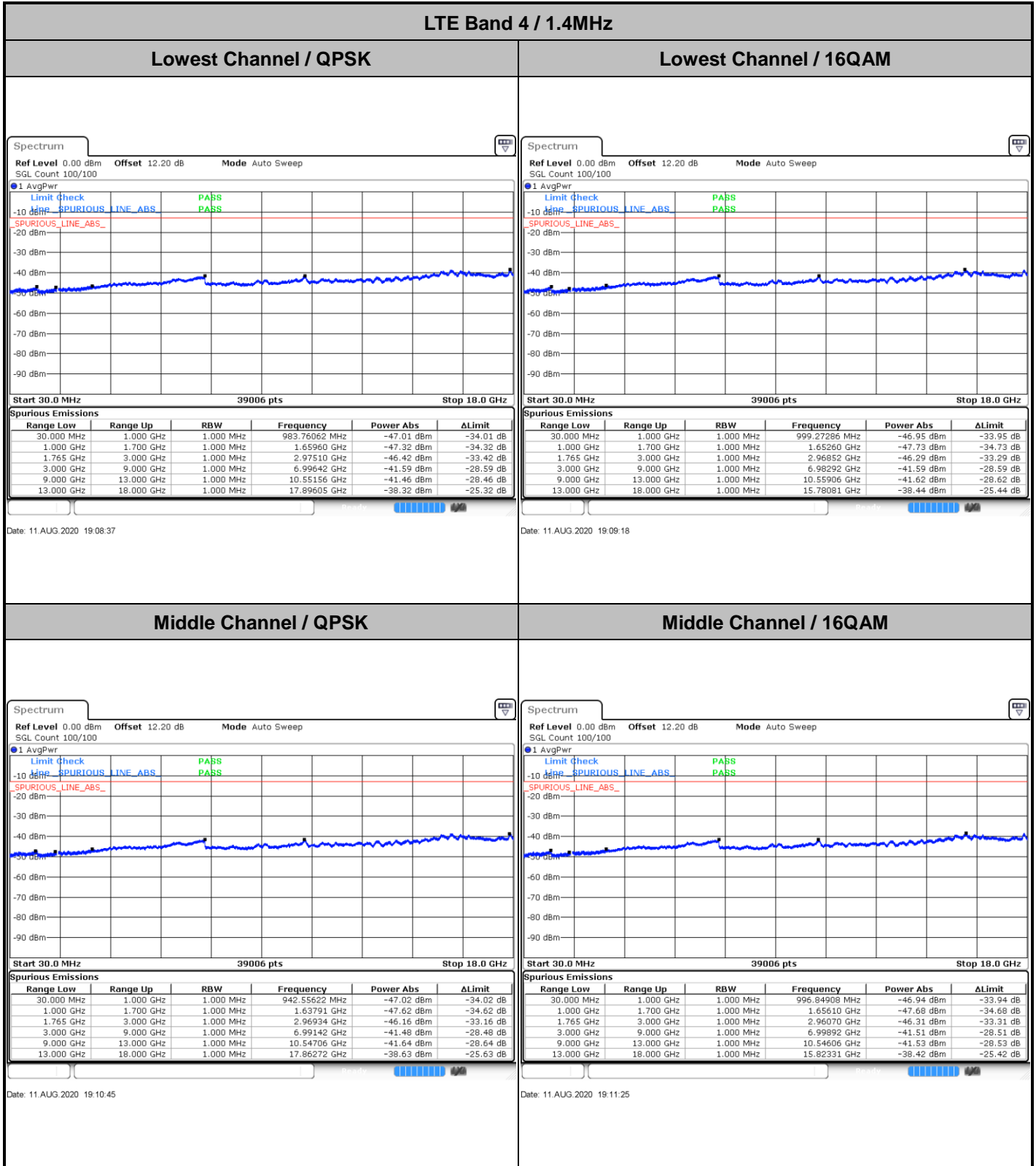
Highest Band Edge / Full RB



Date: 11 AUG 2020 18:54:42



Conducted Spurious Emission

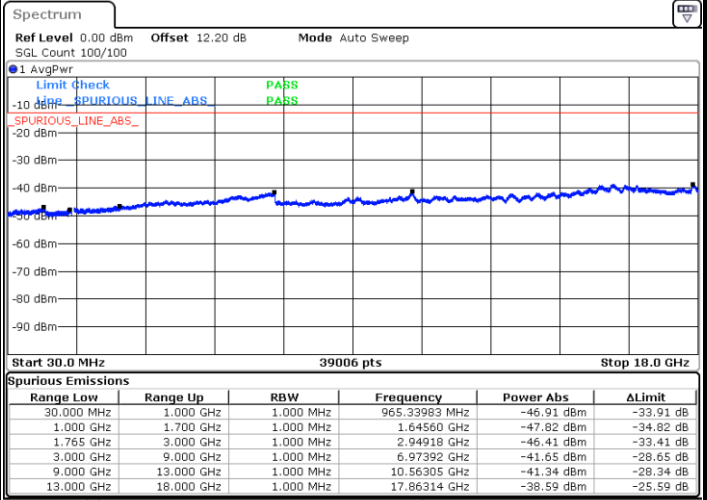
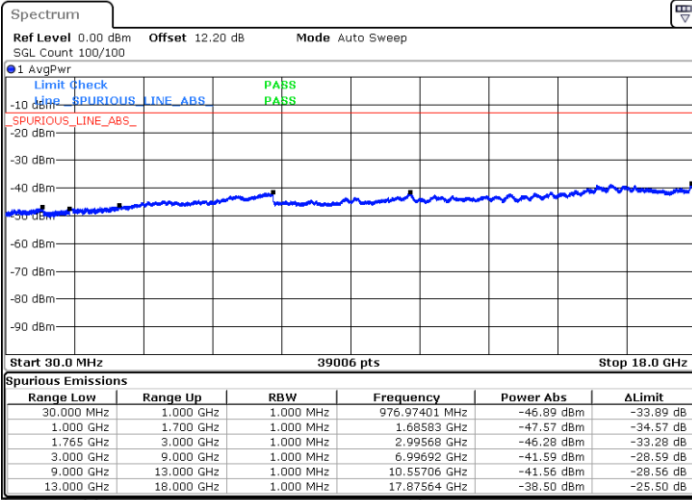




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



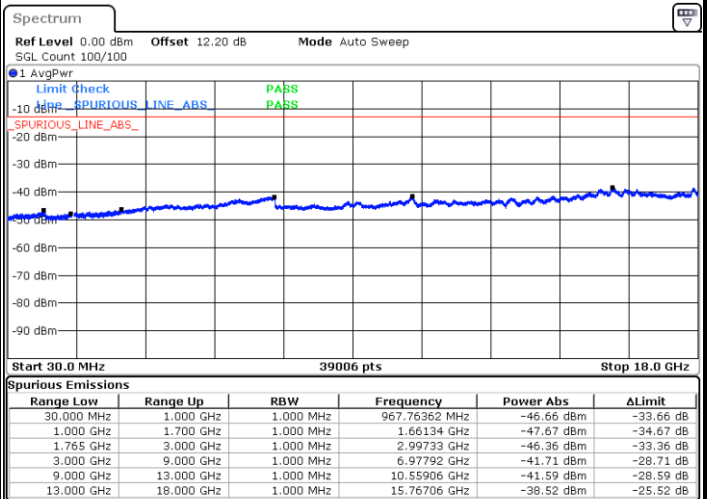
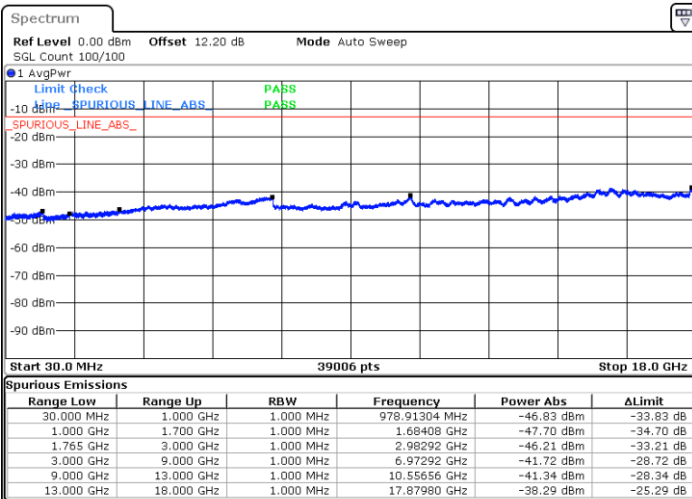
Date: 11.AUG.2020 19:17:10

Date: 11.AUG.2020 19:17:50

LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 11.AUG.2020 17:11:45

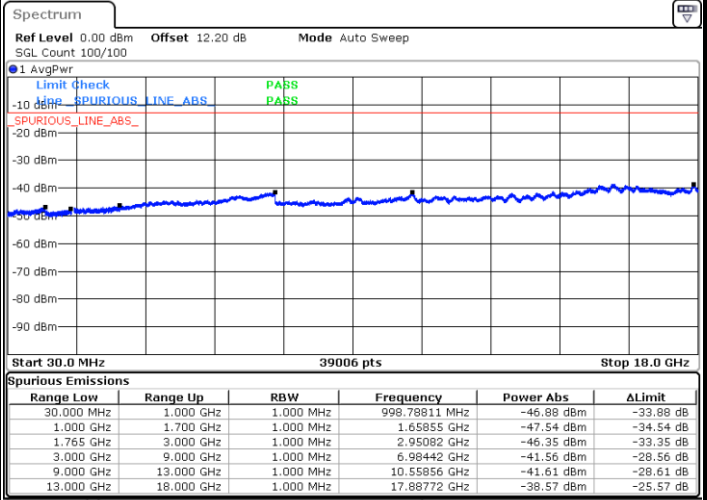
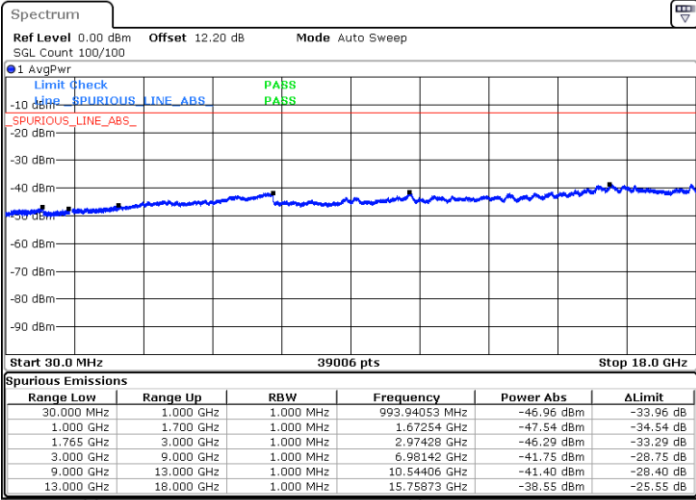
Date: 11.AUG.2020 17:12:26



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

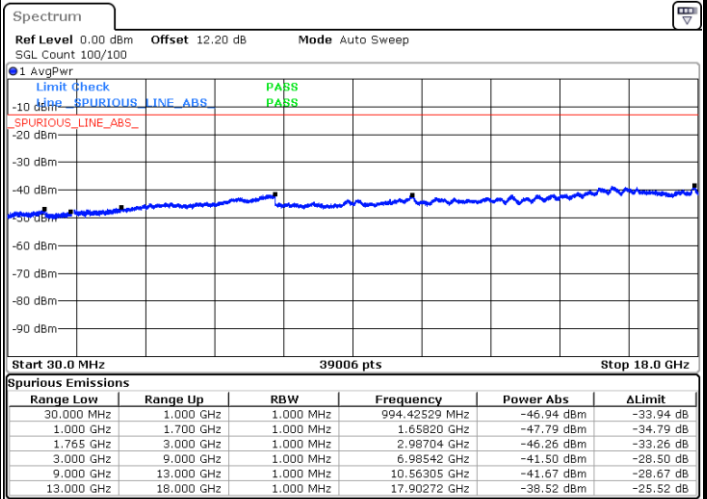
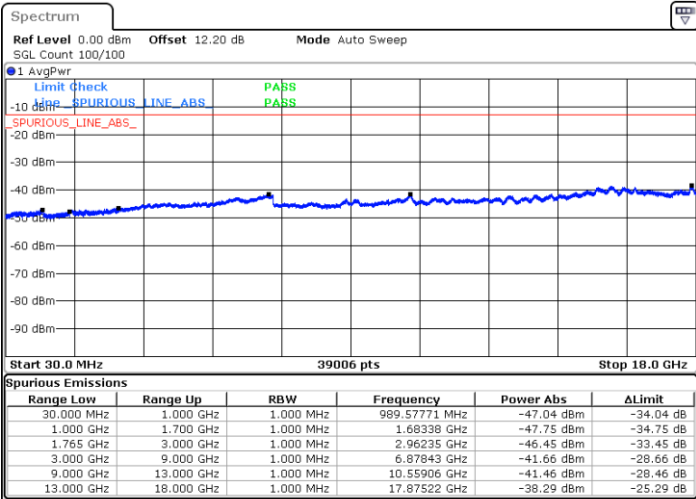


Date: 11.AUG.2020 17:13:54

Date: 11.AUG.2020 17:14:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.AUG.2020 17:20:06

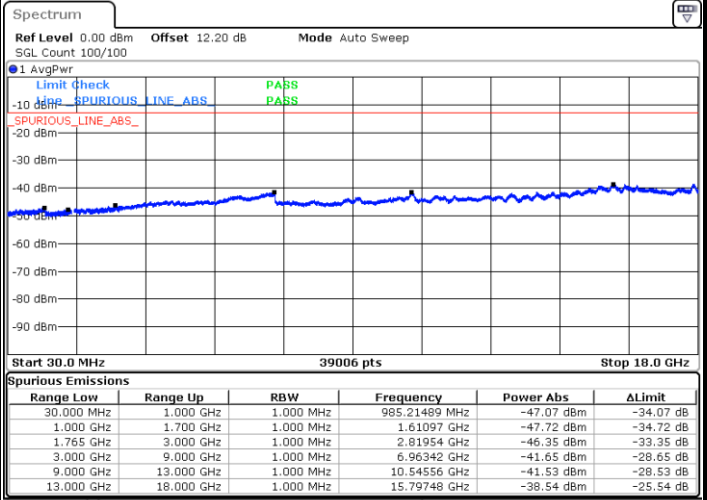
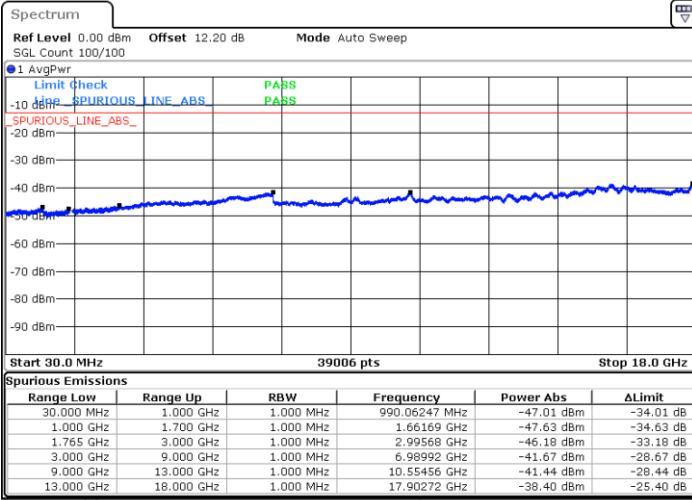
Date: 11.AUG.2020 17:20:47



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

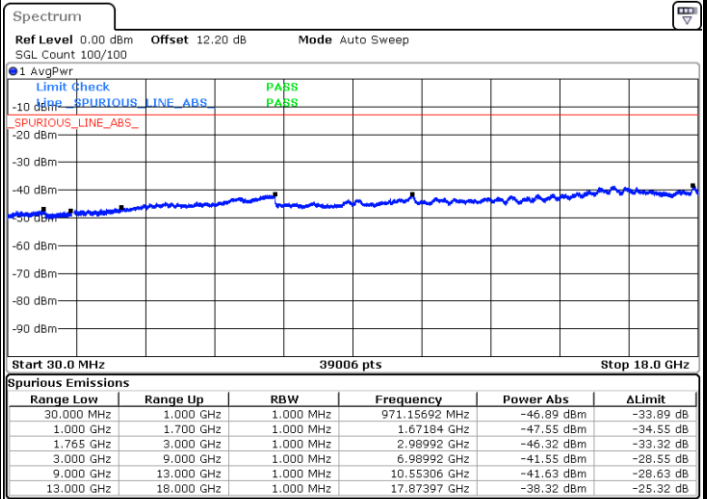
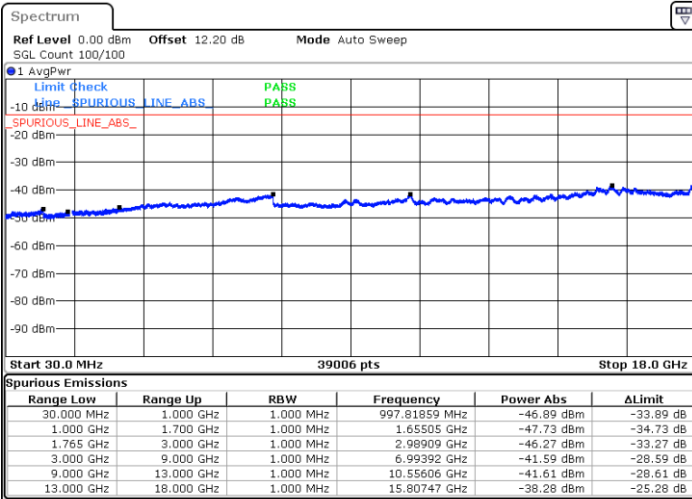


Date: 11.AUG.2020 17:26:20

Date: 11.AUG.2020 17:27:01

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 11.AUG.2020 17:28:28

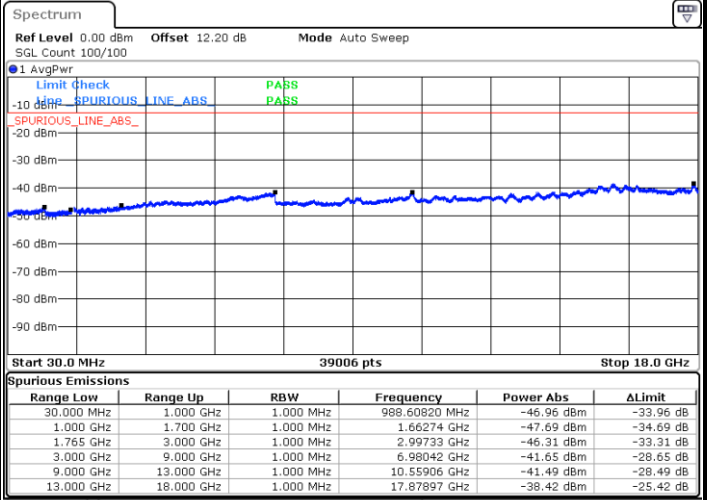
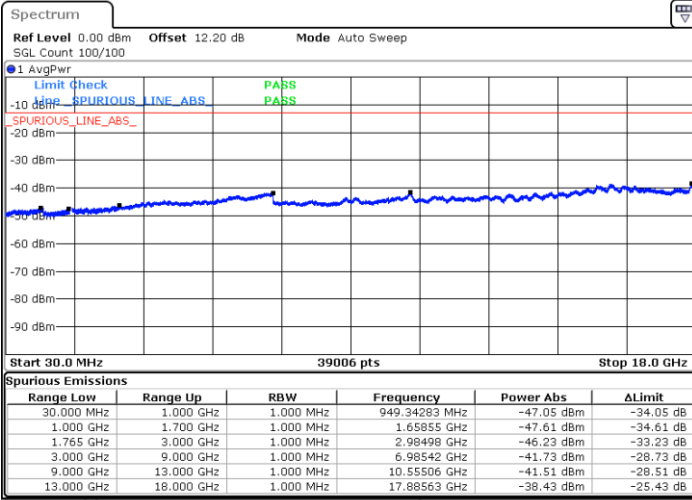
Date: 11.AUG.2020 17:29:09



LTE Band 4 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



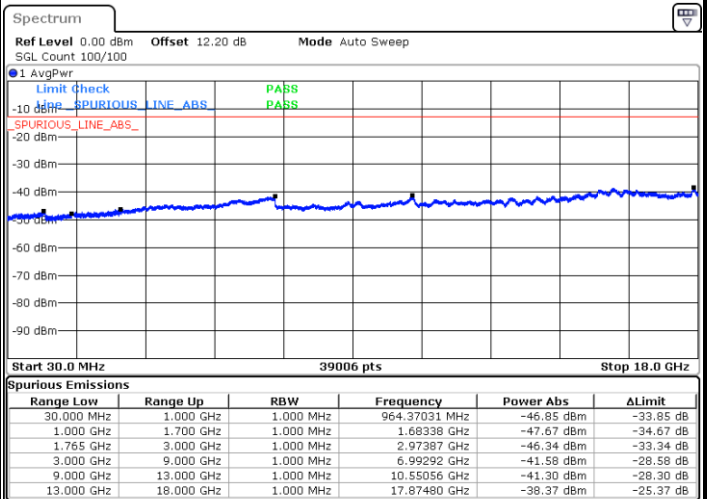
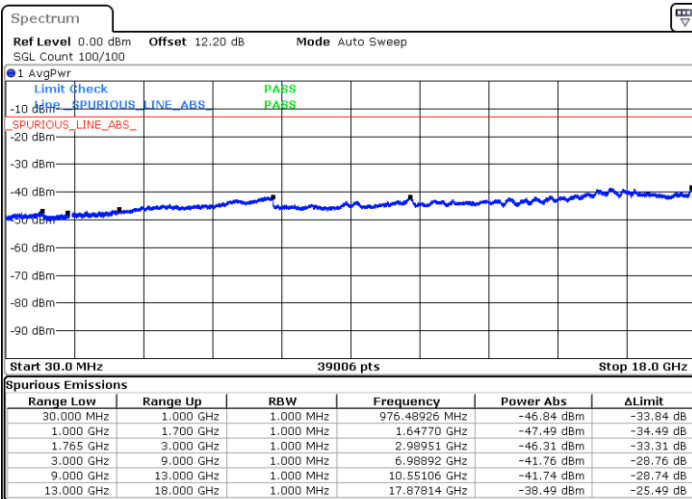
Date: 11.AUG.2020 17:34:40

Date: 11.AUG.2020 17:35:21

LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 11.AUG.2020 17:40:53

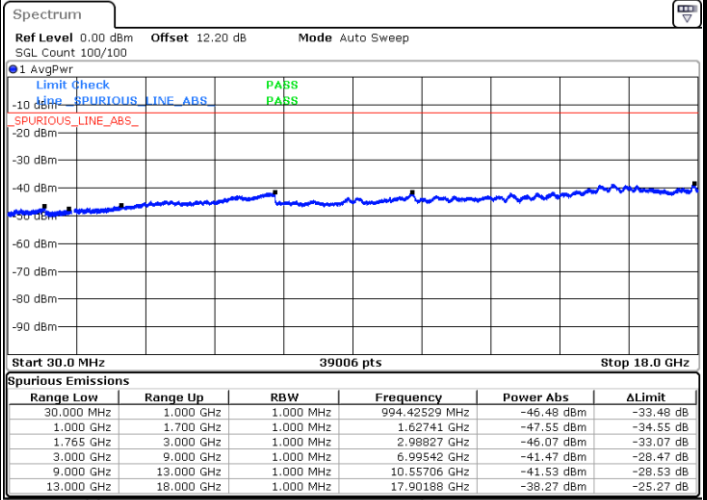
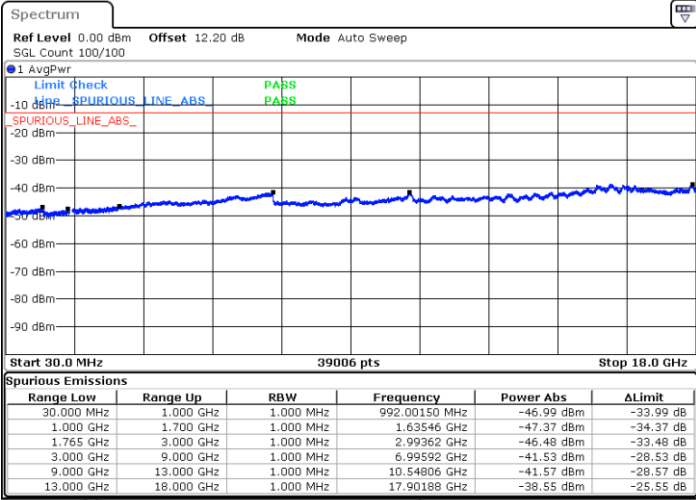
Date: 11.AUG.2020 17:41:34



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

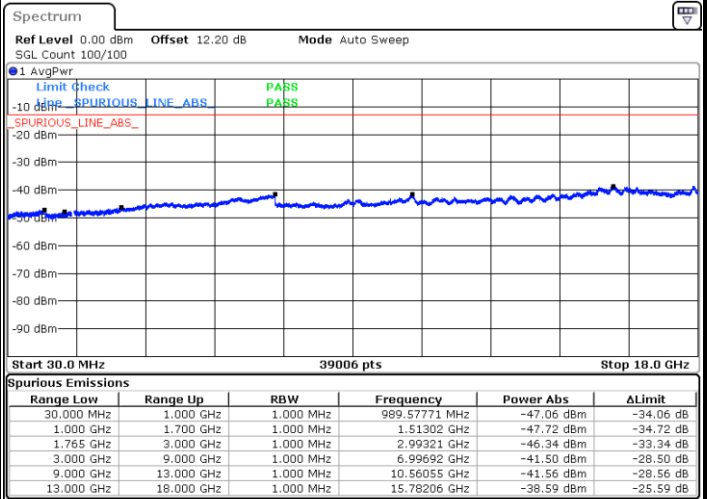
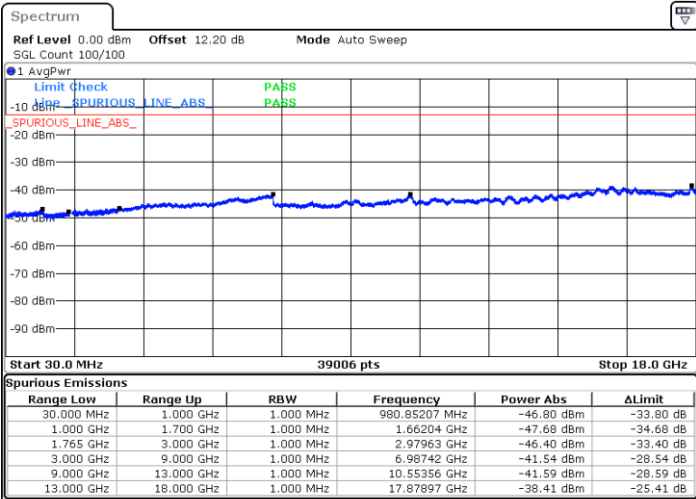


Date: 11.AUG.2020 17:43:01

Date: 11.AUG.2020 17:43:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.AUG.2020 17:49:13

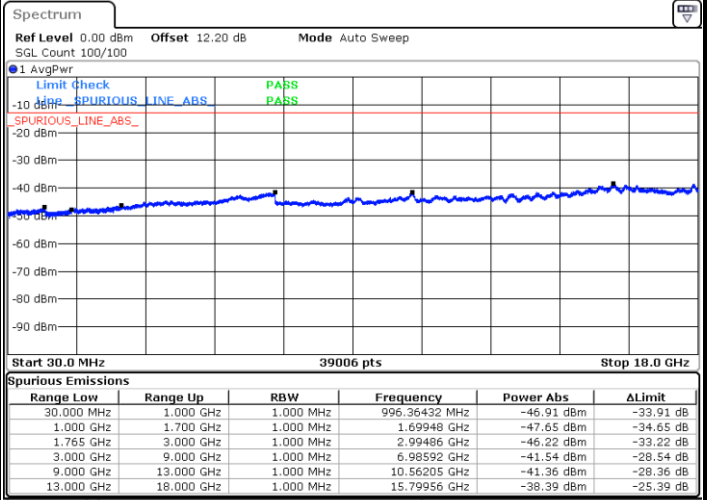
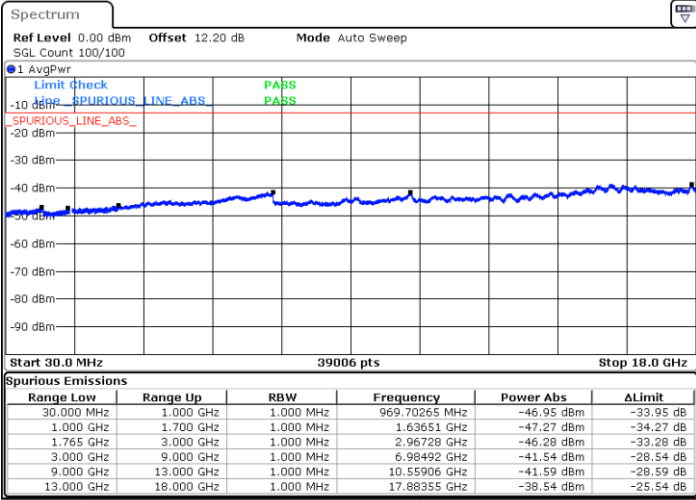
Date: 11.AUG.2020 17:49:54



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

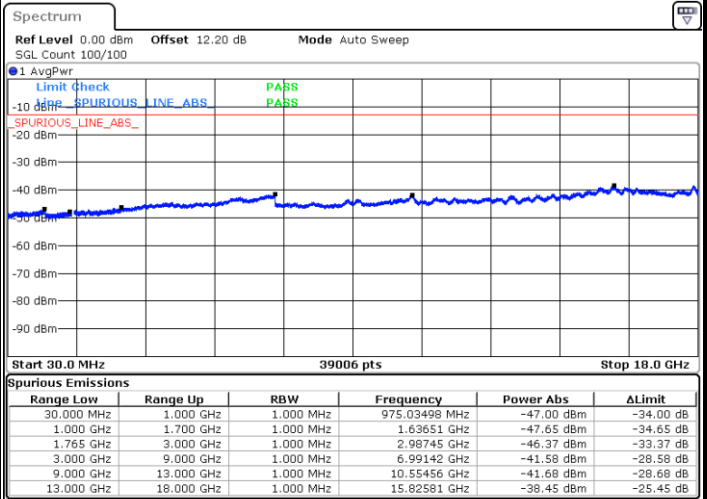
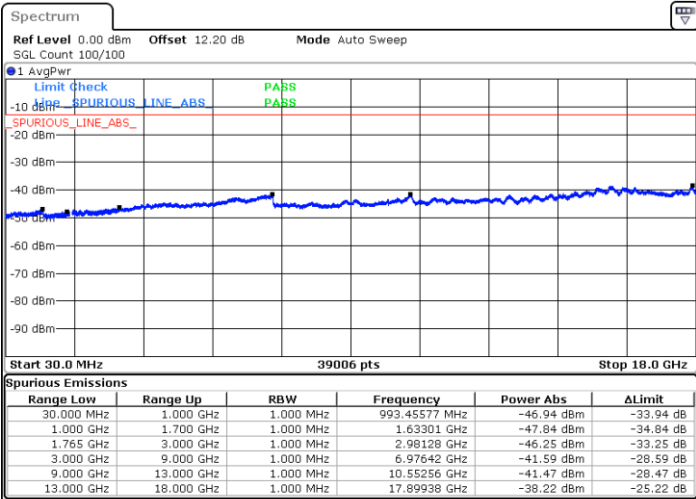


Date: 11.AUG.2020 17:55:27

Date: 11.AUG.2020 17:56:07

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 11.AUG.2020 17:57:34

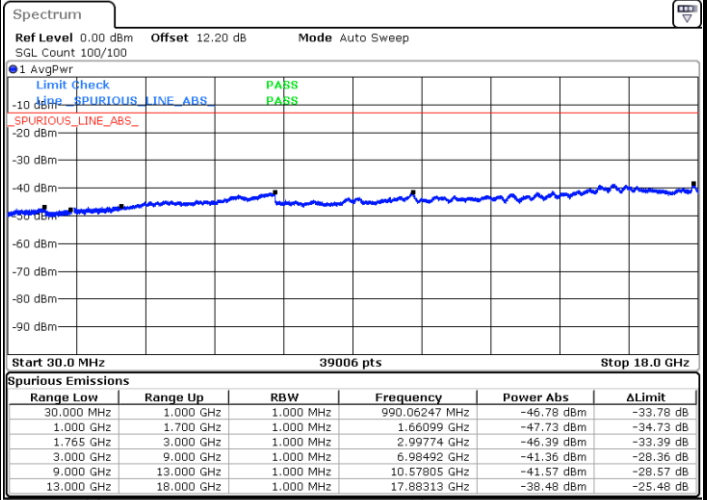
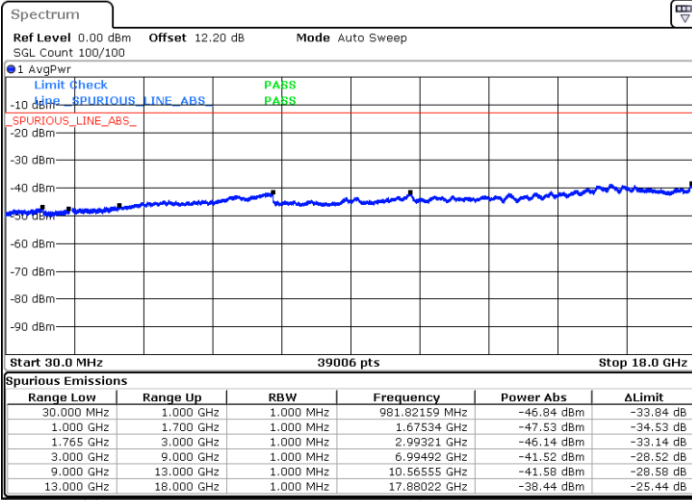
Date: 11.AUG.2020 17:58:15



LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



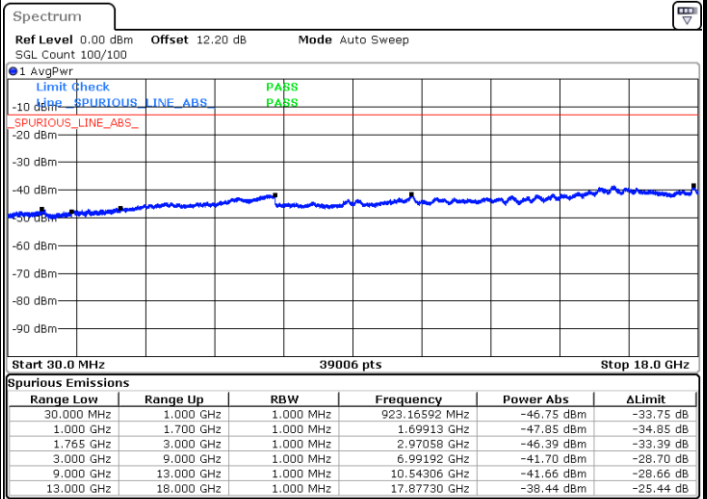
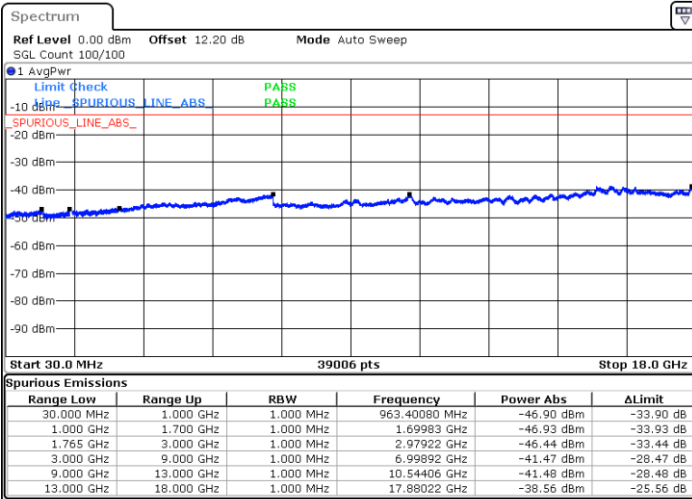
Date: 11.AUG.2020 18:03:47

Date: 11.AUG.2020 18:04:28

LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 11.AUG.2020 18:10:01

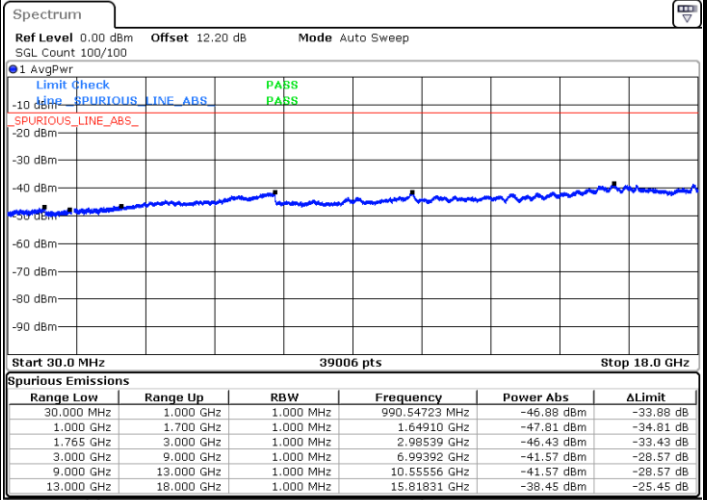
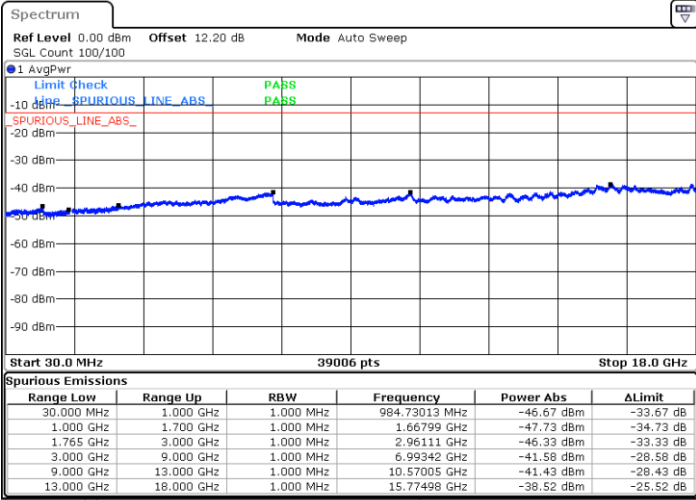
Date: 11.AUG.2020 18:10:42



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

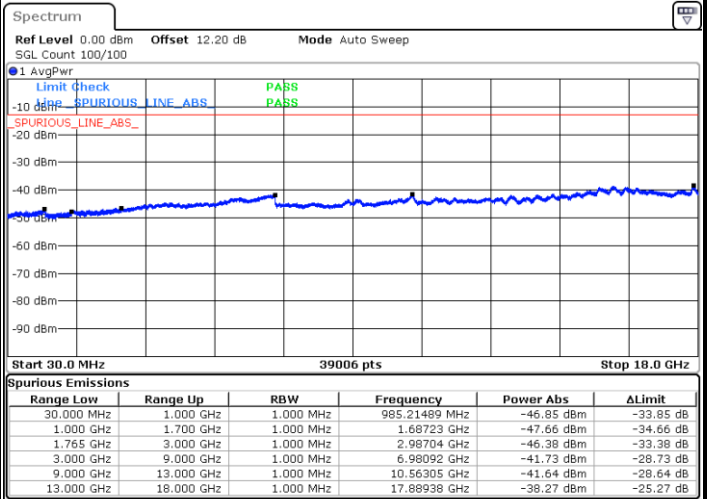
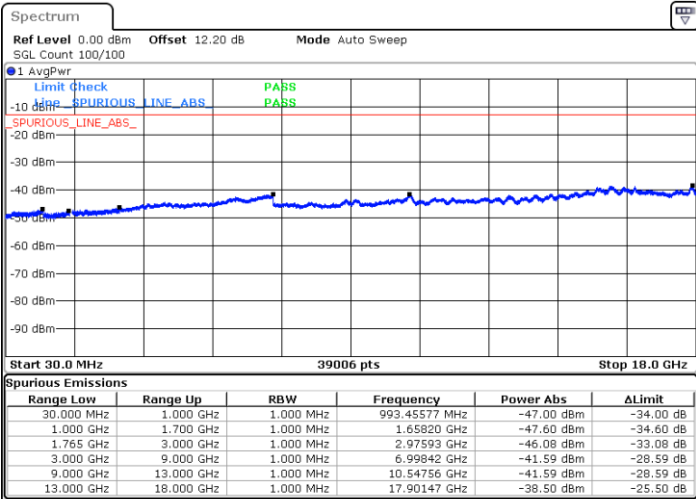


Date: 11.AUG.2020 18:12:08

Date: 11.AUG.2020 18:12:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.AUG.2020 18:18:21

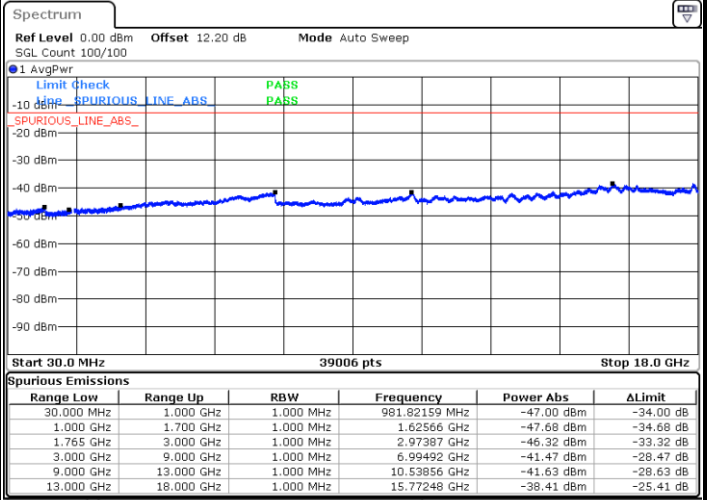
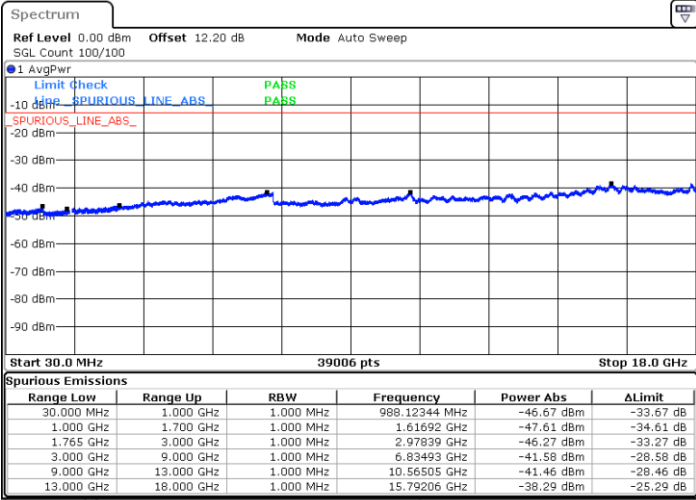
Date: 11.AUG.2020 18:19:02



LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

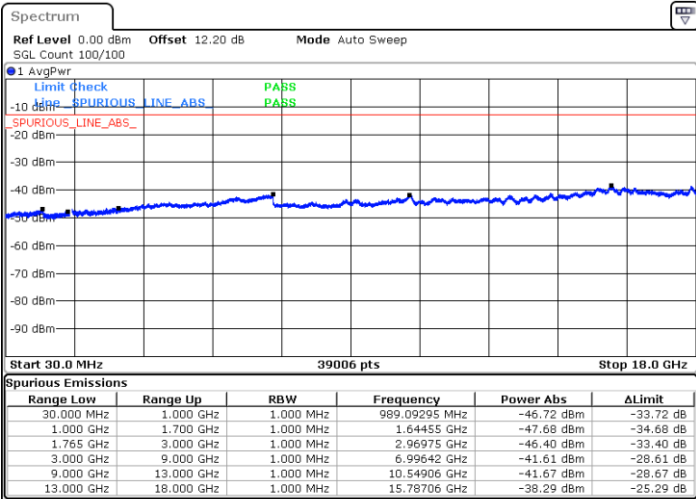
Middle Channel / 64QAM



Date: 11.AUG.2020 18:58:37

Date: 11.AUG.2020 18:59:40

Highest Channel / 64QAM



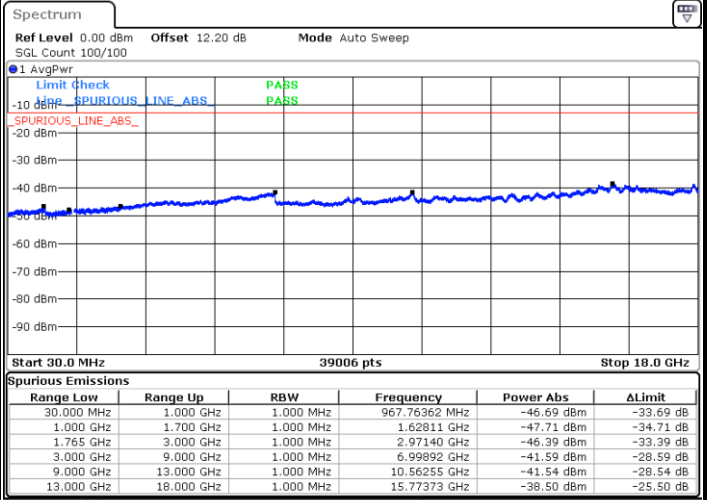
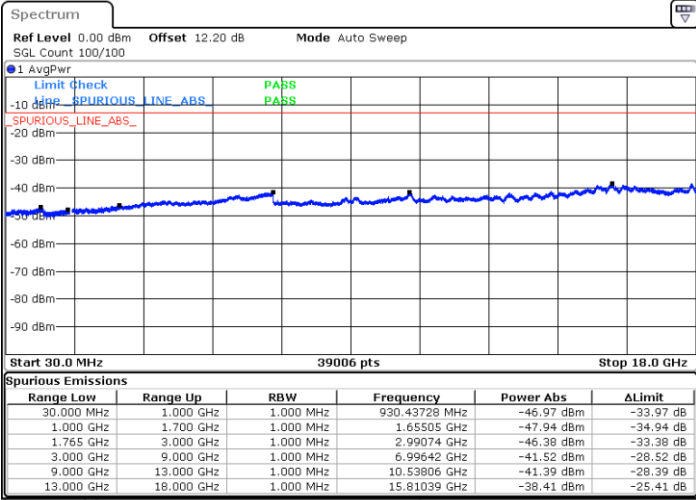
Date: 11.AUG.2020 19:02:53



LTE Band 4 / 3MHz

Lowest Channel / 64QAM

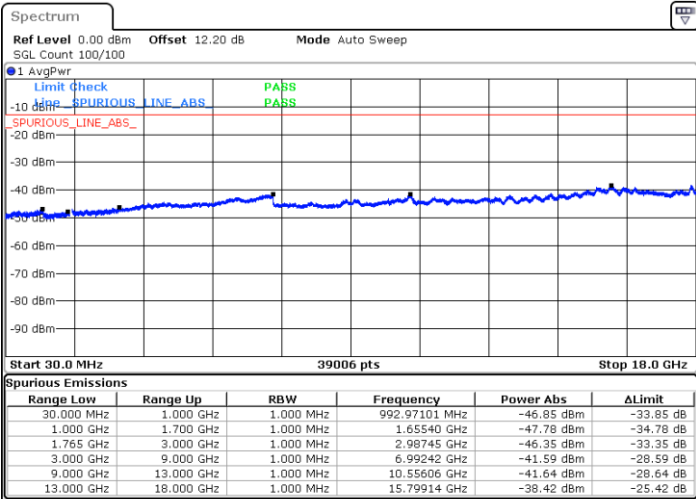
Middle Channel / 64QAM



Date: 11.AUG.2020 18:22:09

Date: 11.AUG.2020 18:23:12

Highest Channel / 64QAM



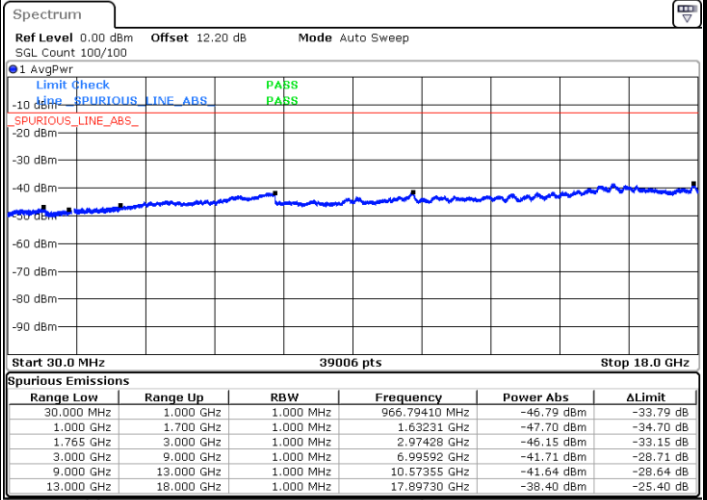
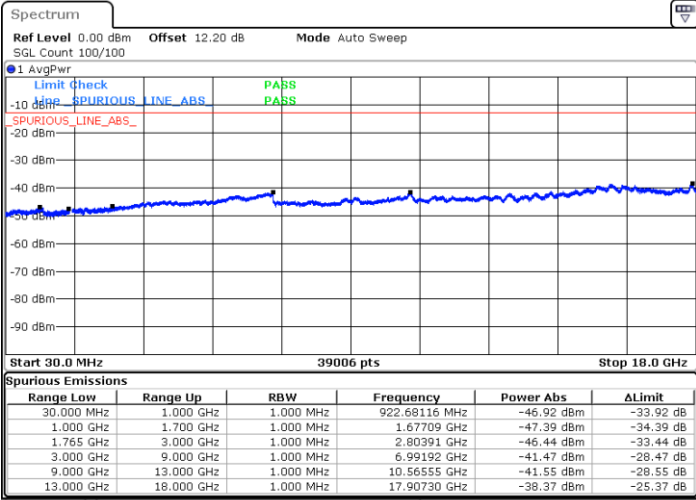
Date: 11.AUG.2020 18:26:18



LTE Band 4 / 5MHz

Lowest Channel / 64QAM

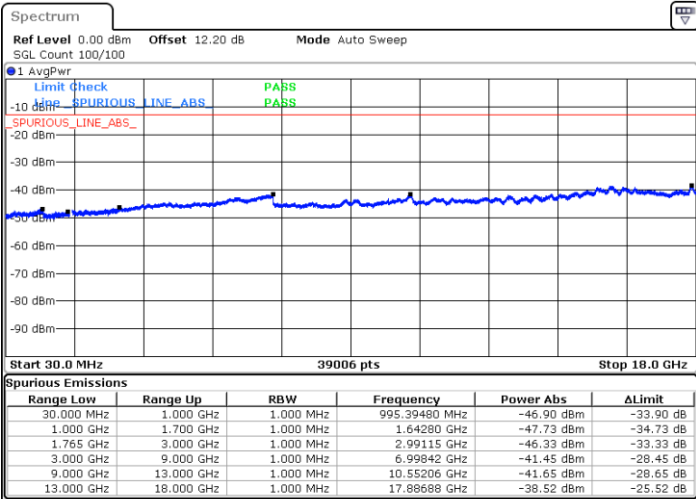
Middle Channel / 64QAM



Date: 11.AUG.2020 18:29:25

Date: 11.AUG.2020 18:30:29

Highest Channel / 64QAM



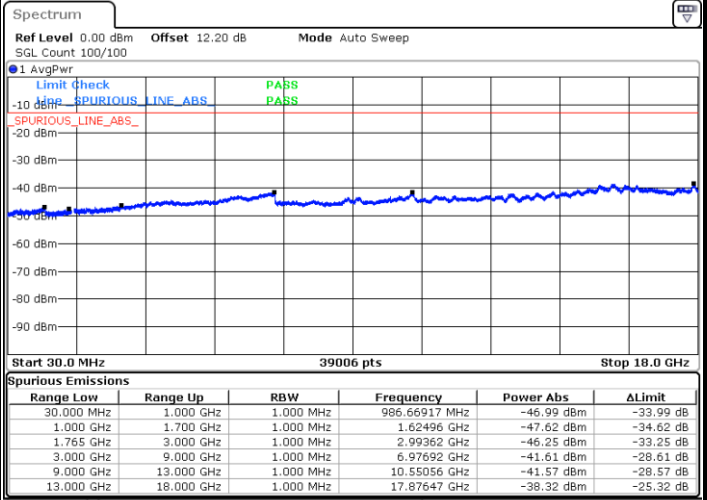
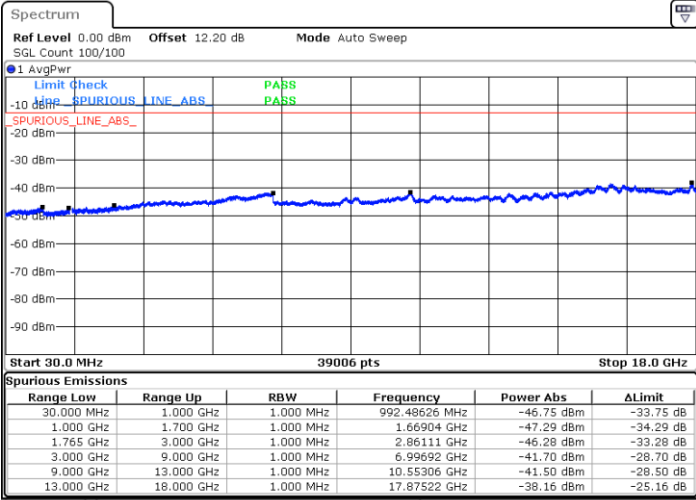
Date: 11.AUG.2020 18:33:35



LTE Band 4 / 10MHz

Lowest Channel / 64QAM

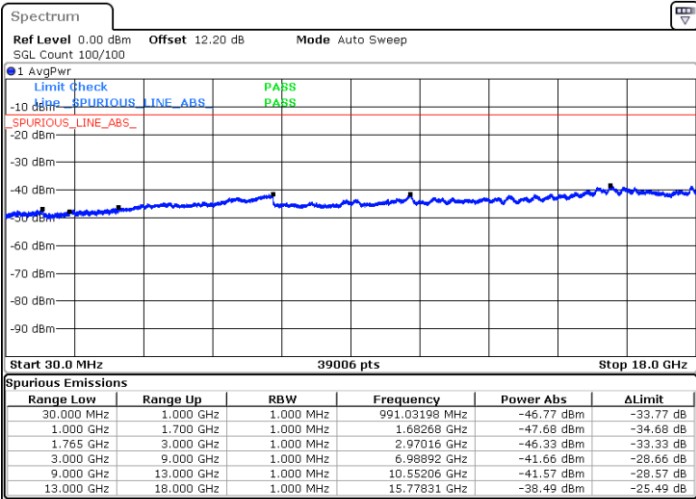
Middle Channel / 64QAM



Date: 11.AUG.2020 18:36:42

Date: 11.AUG.2020 18:37:45

Highest Channel / 64QAM



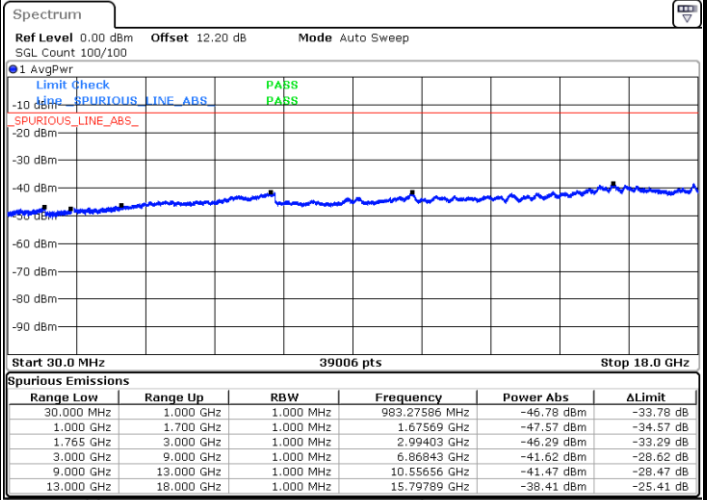
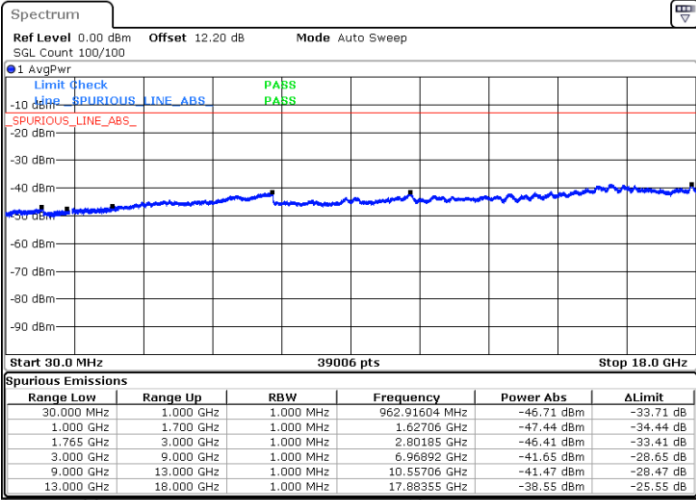
Date: 11.AUG.2020 18:40:51



LTE Band 4 / 15MHz

Lowest Channel / 64QAM

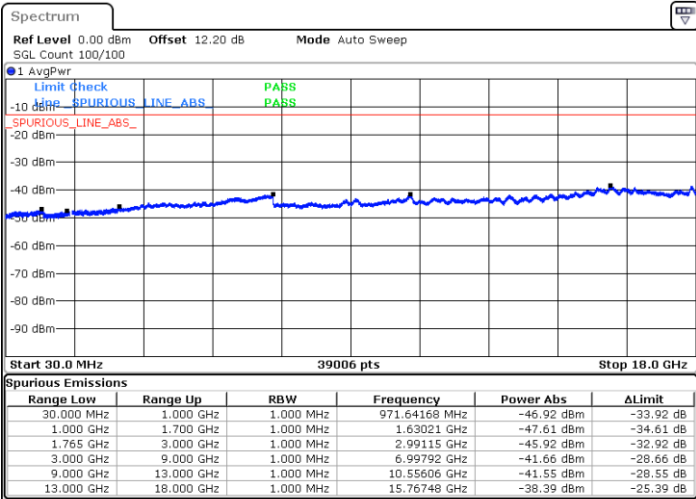
Middle Channel / 64QAM



Date: 11.AUG.2020 18:43:58

Date: 11.AUG.2020 18:45:01

Highest Channel / 64QAM



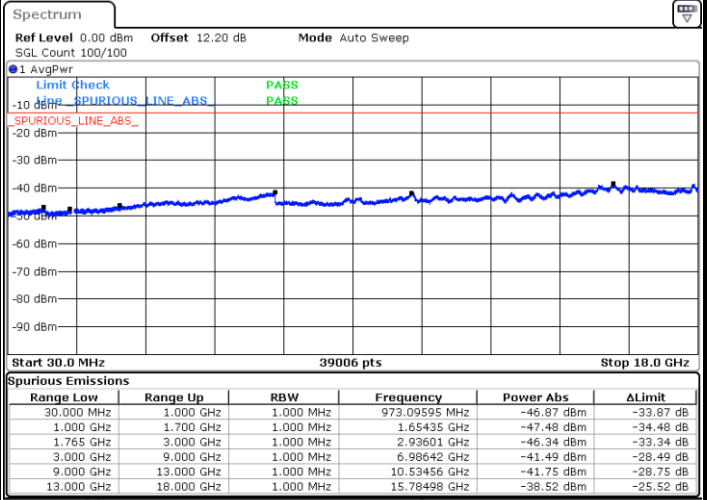
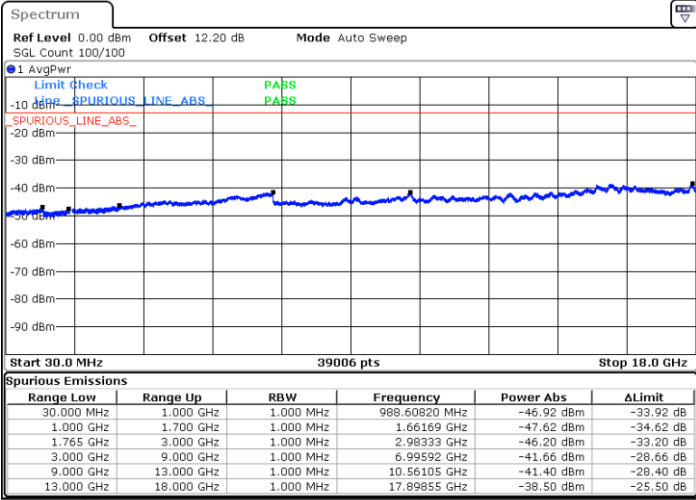
Date: 11.AUG.2020 18:48:07



LTE Band 4 / 20MHz

Lowest Channel / 64QAM

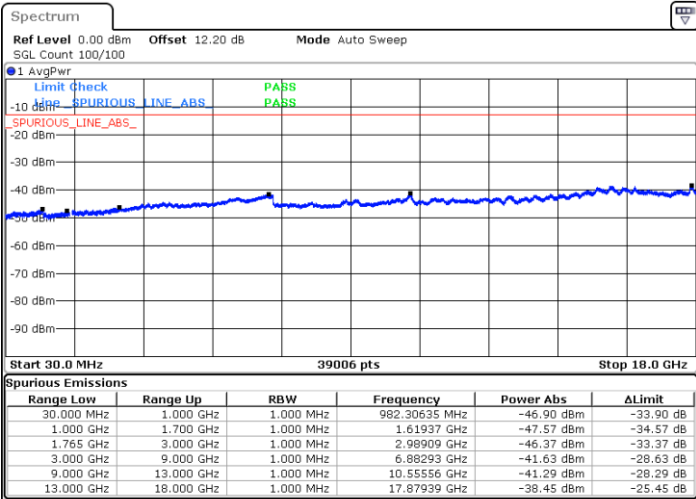
Middle Channel / 64QAM



Date: 11.AUG.2020 18:51:14

Date: 11.AUG.2020 18:52:17

Highest Channel / 64QAM



Date: 11.AUG.2020 18:55:24



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0063	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0042	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

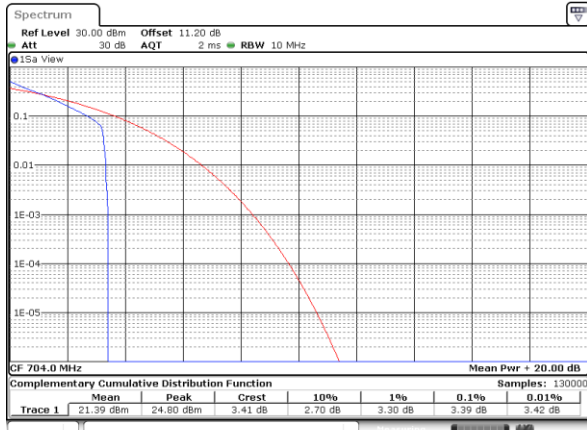
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.39	5.04	4.78	5.88	PASS
Middle CH	3.57	4.90	5.10	5.74	
Highest CH	3.45	4.93	5.13	5.77	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.17	6.38	-	-	PASS
Middle CH	6.26	6.23	-	-	
Highest CH	6.46	6.32	-	-	



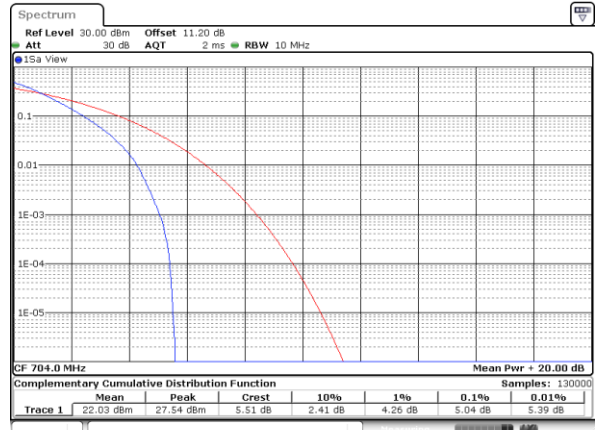
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



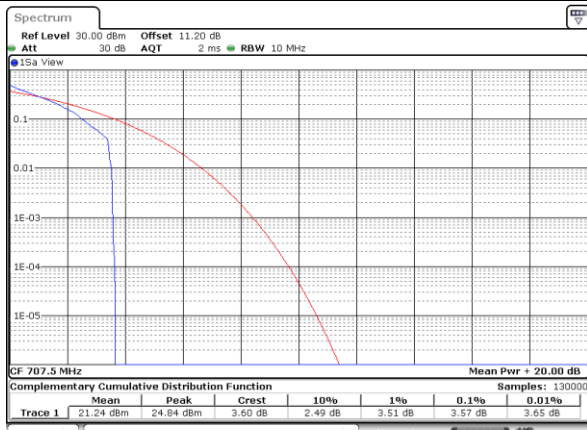
Date: 12 AUG 2020 02:26:15

Lowest Channel / Full RB



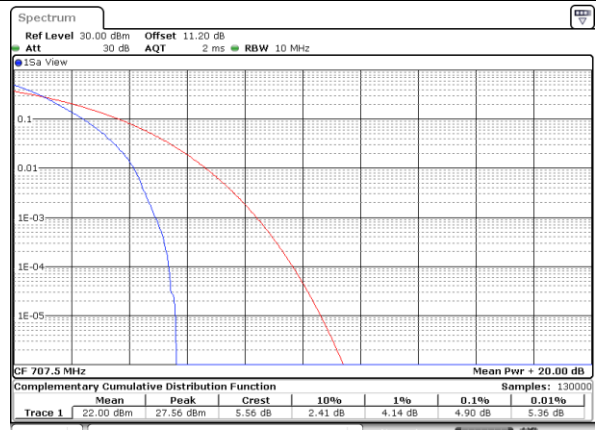
Date: 12 AUG 2020 02:26:05

Middle Channel / 1RB



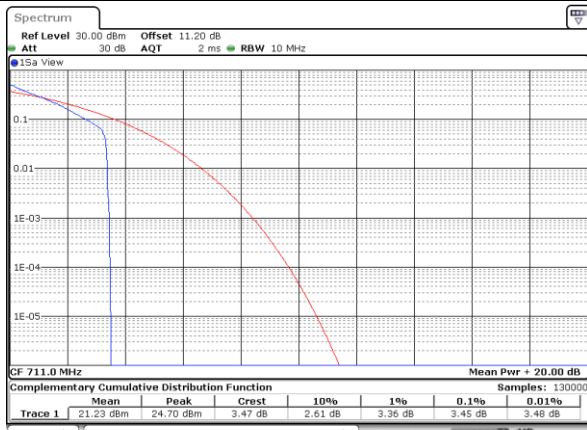
Date: 12 AUG 2020 02:26:25

Middle Channel / Full RB



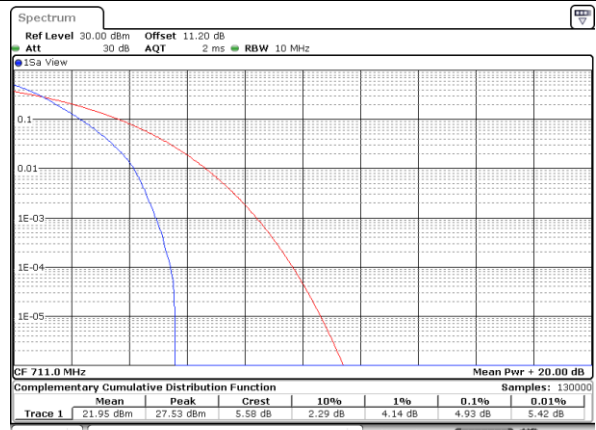
Date: 12 AUG 2020 02:26:34

Highest Channel / 1RB



Date: 12 AUG 2020 02:26:54

Highest Channel / Full RB

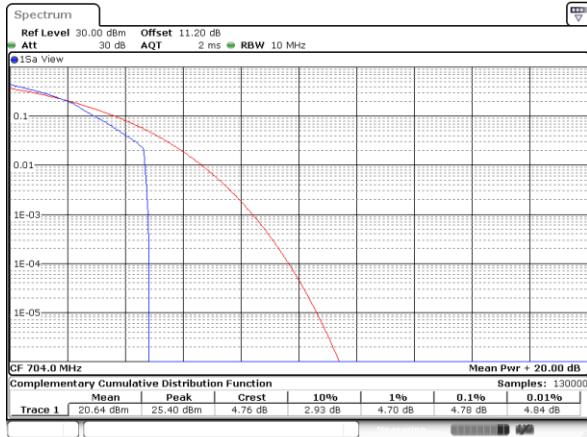


Date: 12 AUG 2020 02:26:44



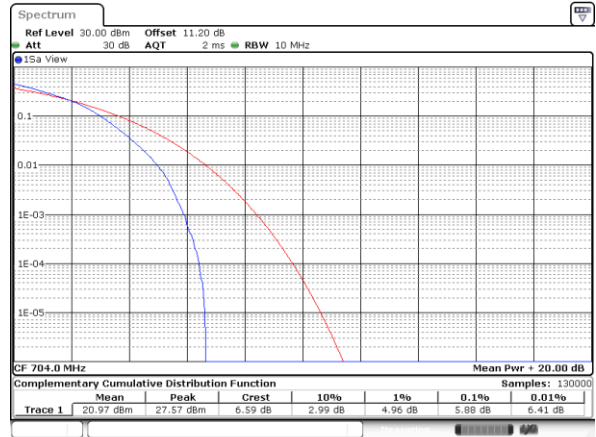
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



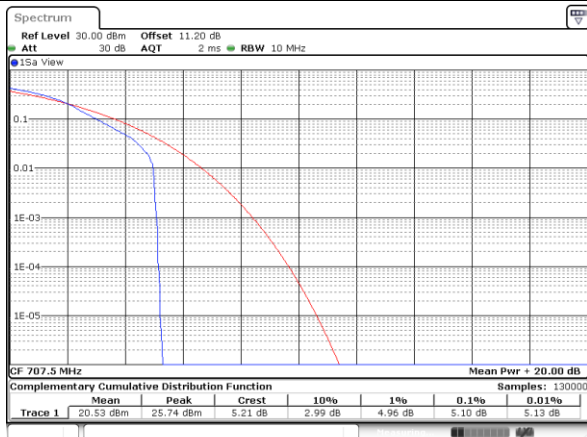
Date: 12 AUG 2020 02:25:16

Lowest Channel / Full RB



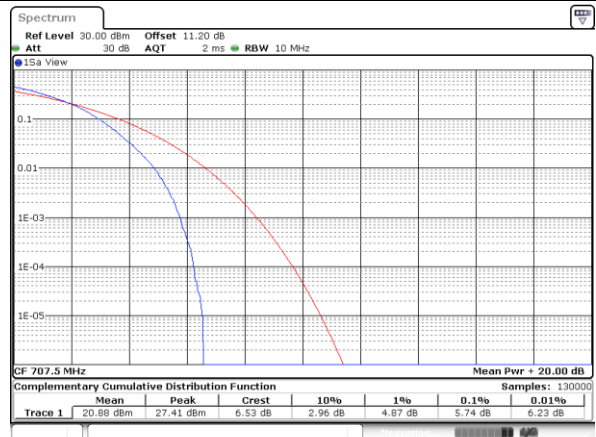
Date: 12 AUG 2020 02:25:06

Middle Channel / 1RB



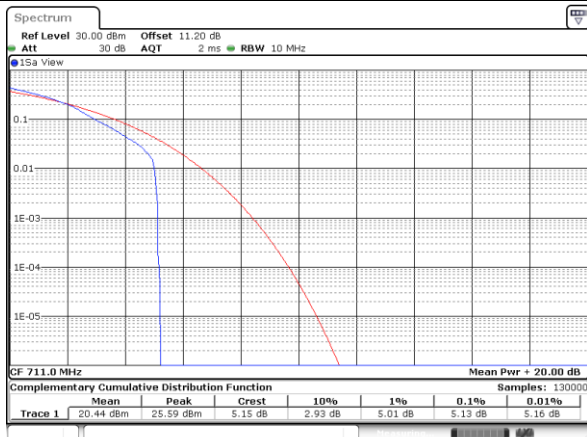
Date: 12 AUG 2020 02:25:26

Middle Channel / Full RB



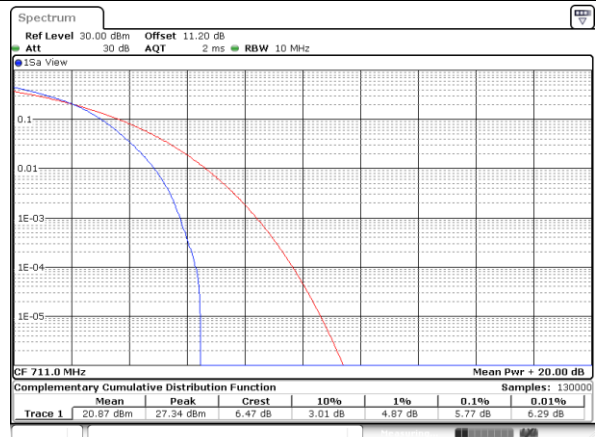
Date: 12 AUG 2020 02:25:35

Highest Channel / 1RB



Date: 12 AUG 2020 02:25:55

Highest Channel / Full RB

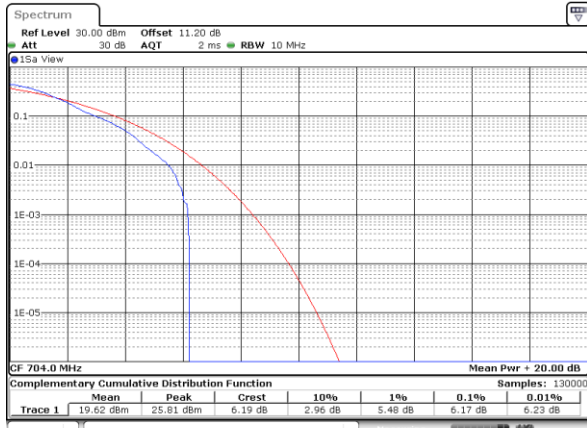


Date: 12 AUG 2020 02:25:45



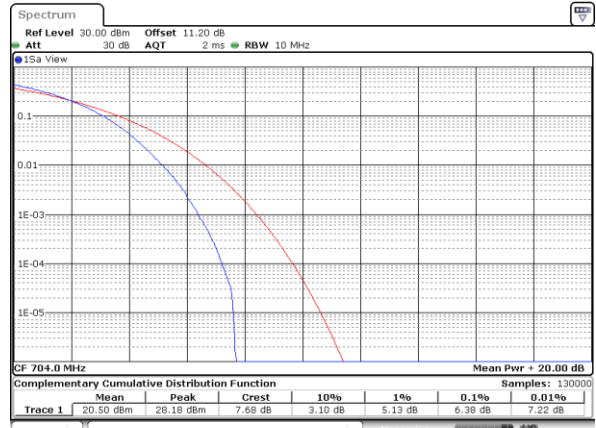
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



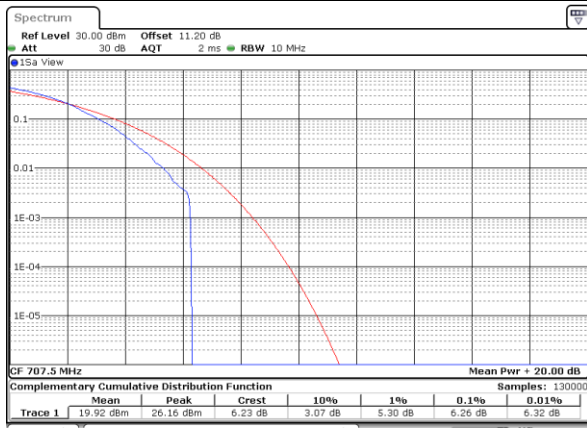
Date: 12 AUG 2020 02:22:44

Lowest Channel / Full RB



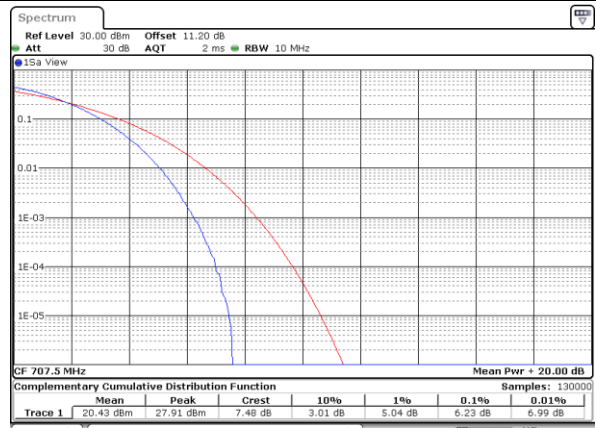
Date: 12 AUG 2020 02:21:09

Middle Channel / 1RB



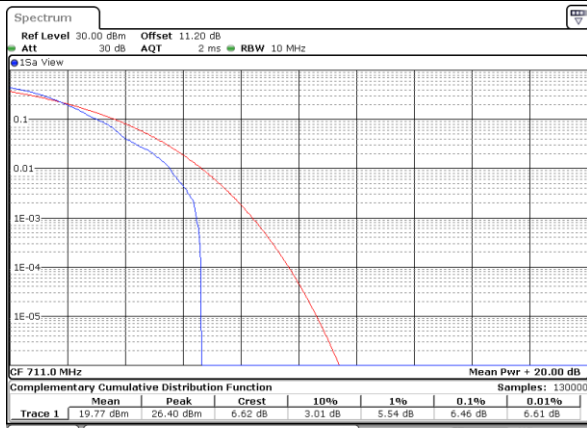
Date: 12 AUG 2020 02:23:09

Middle Channel / Full RB



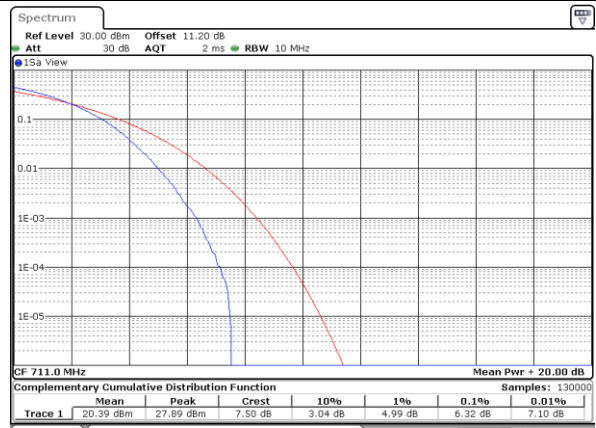
Date: 12 AUG 2020 02:24:26

Highest Channel / 1RB



Date: 12 AUG 2020 02:24:56

Highest Channel / Full RB



Date: 12 AUG 2020 02:24:36



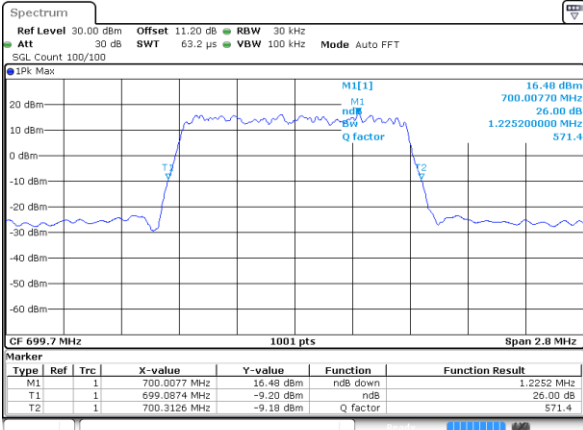
26dB Bandwidth

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	1.23	1.23	3.06	3.01	4.88	4.84	9.83	9.95	-	-	-	-
Middle CH	1.22	1.22	2.98	3.02	4.95	4.91	9.83	9.73	-	-	-	-
Highest CH	1.24	1.23	3.03	3.05	4.93	4.84	9.79	9.63	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	3.02	-	4.95	-	9.73	-	-	-	-	-
Middle CH	1.21	-	3.02	-	4.93	-	9.93	-	-	-	-	-
Highest CH	1.22	-	3.05	-	4.93	-	9.83	-	-	-	-	-



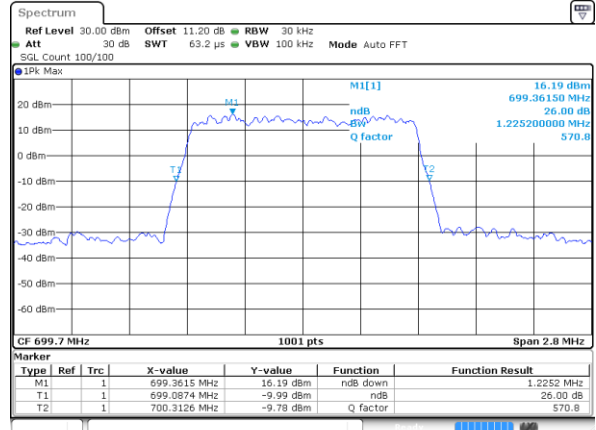
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



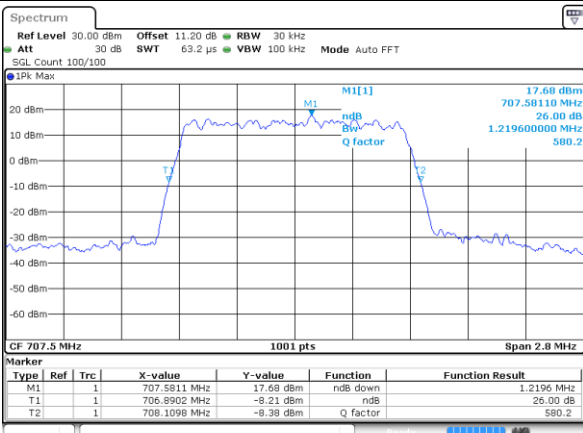
Date: 12 AUG 2020 00:50:37

Lowest Channel / 1.4MHz / 16QAM



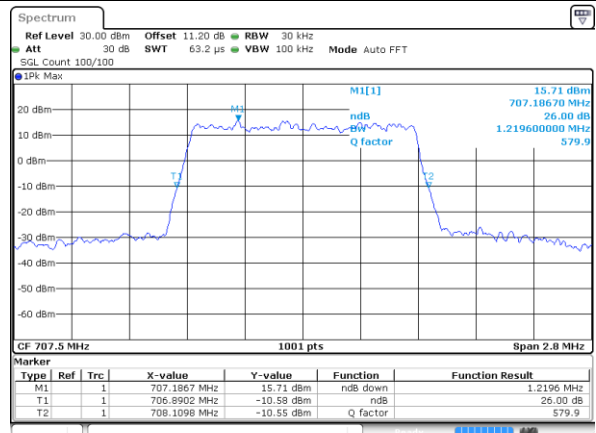
Date: 12 AUG 2020 00:50:25

Middle Channel / 1.4MHz / QPSK



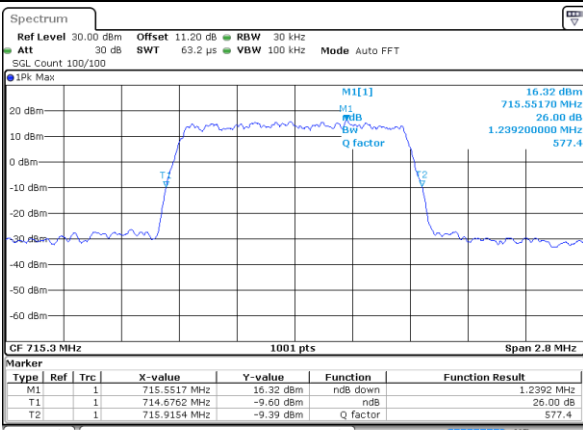
Date: 12 AUG 2020 00:56:35

Middle Channel / 1.4MHz / 16QAM



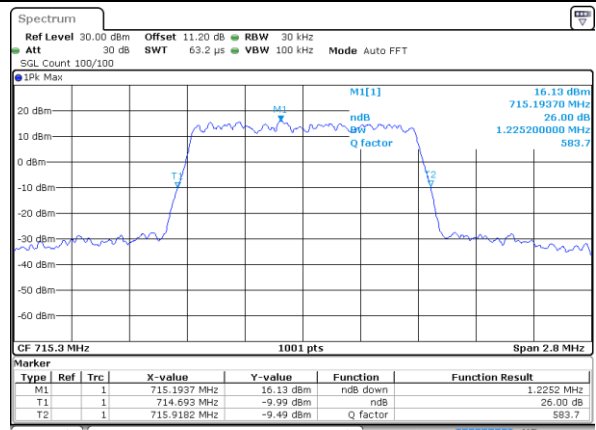
Date: 12 AUG 2020 00:56:46

Highest Channel / 1.4MHz / QPSK



Date: 12 AUG 2020 00:58:54

Highest Channel / 1.4MHz / 16QAM

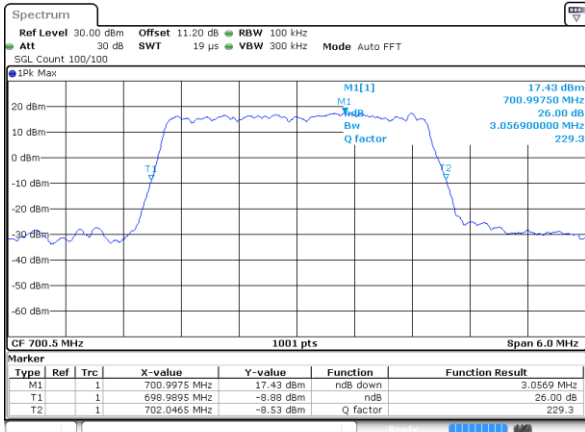


Date: 12 AUG 2020 00:58:42



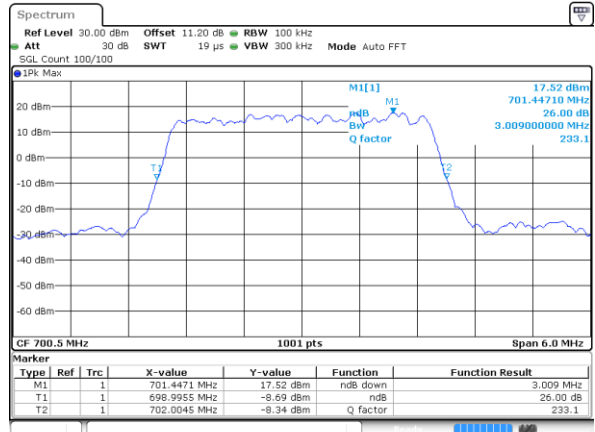
LTE Band 12

Lowest Channel / 3MHz / QPSK



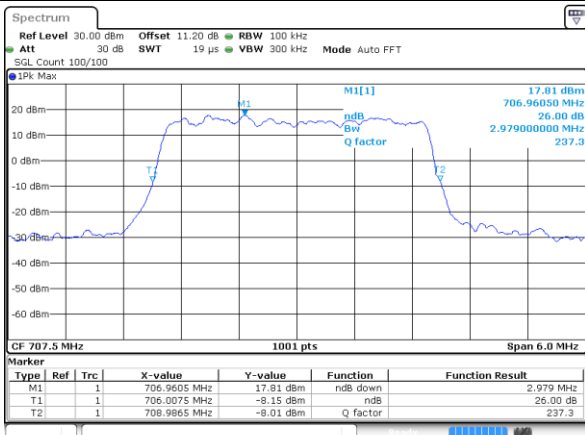
Date: 12 AUG 2020 01:12:23

Lowest Channel / 3MHz / 16QAM



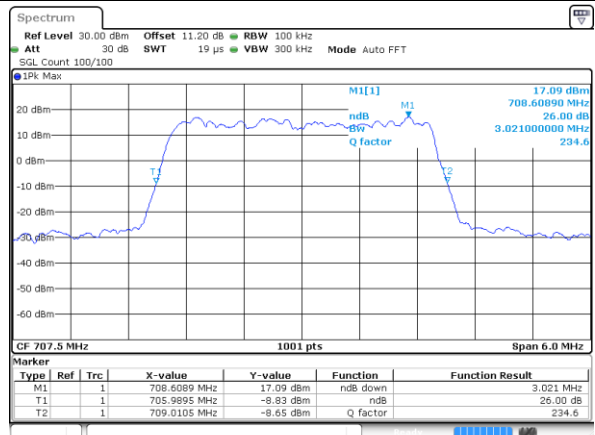
Date: 12 AUG 2020 01:12:11

Middle Channel / 3MHz / QPSK



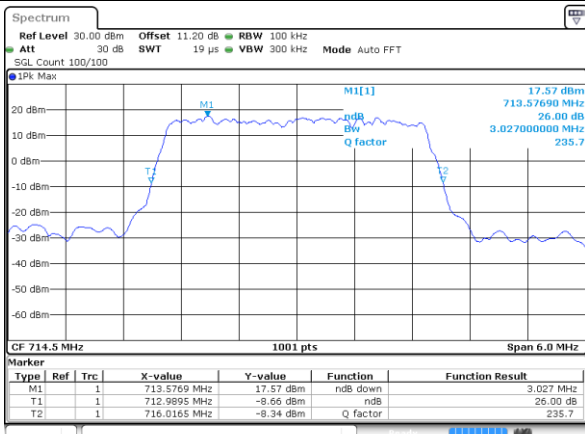
Date: 12 AUG 2020 01:18:22

Middle Channel / 3MHz / 16QAM



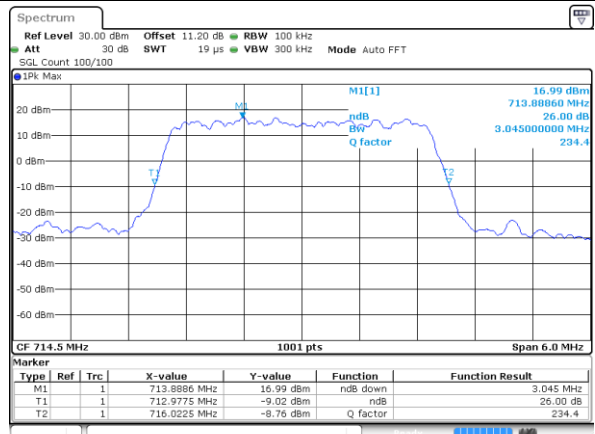
Date: 12 AUG 2020 01:18:33

Highest Channel / 3MHz / QPSK



Date: 12 AUG 2020 01:20:41

Highest Channel / 3MHz / 16QAM

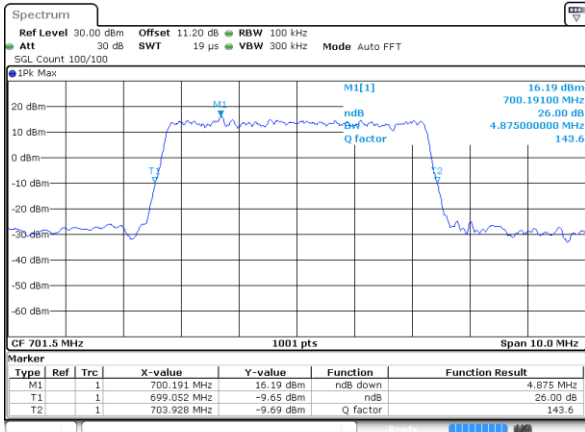


Date: 12 AUG 2020 01:20:29



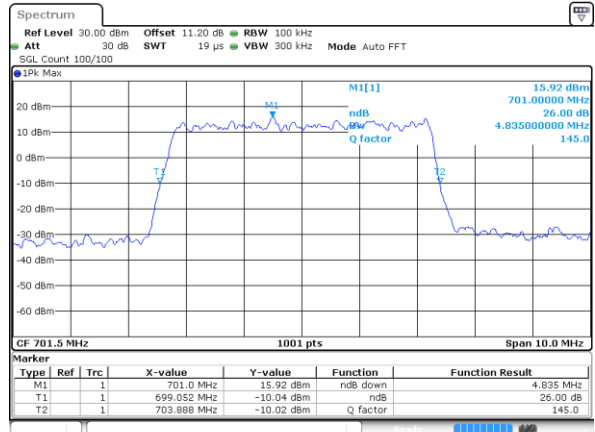
LTE Band 12

Lowest Channel / 5MHz / QPSK



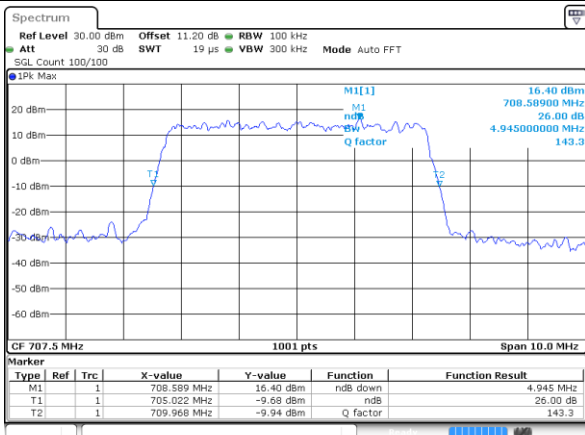
Date: 12 AUG 2020 01:41:23

Lowest Channel / 5MHz / 16QAM



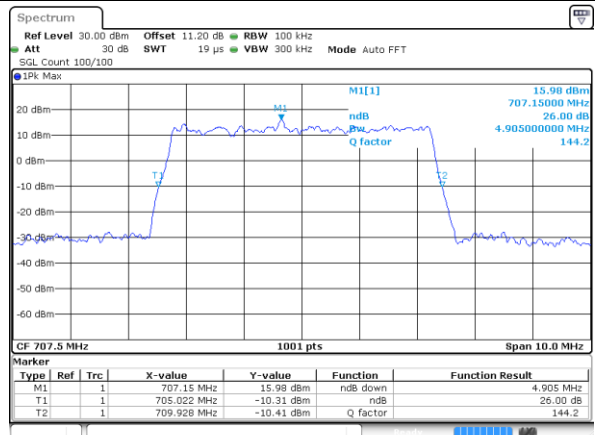
Date: 12 AUG 2020 01:41:11

Middle Channel / 5MHz / QPSK



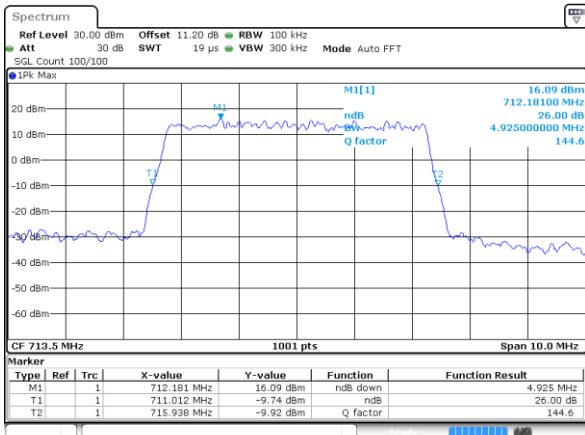
Date: 12 AUG 2020 01:47:22

Middle Channel / 5MHz / 16QAM



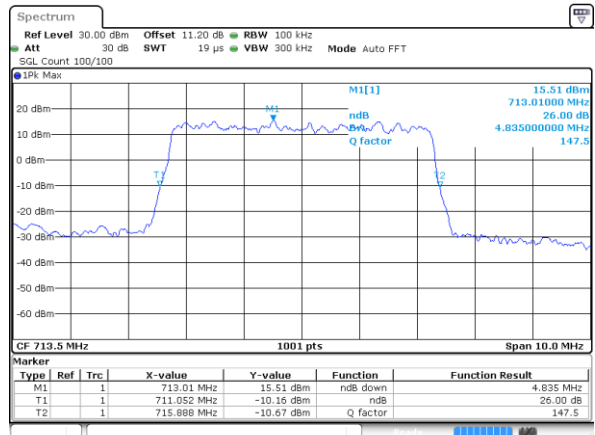
Date: 12 AUG 2020 01:47:33

Highest Channel / 5MHz / QPSK



Date: 12 AUG 2020 01:49:41

Highest Channel / 5MHz / 16QAM

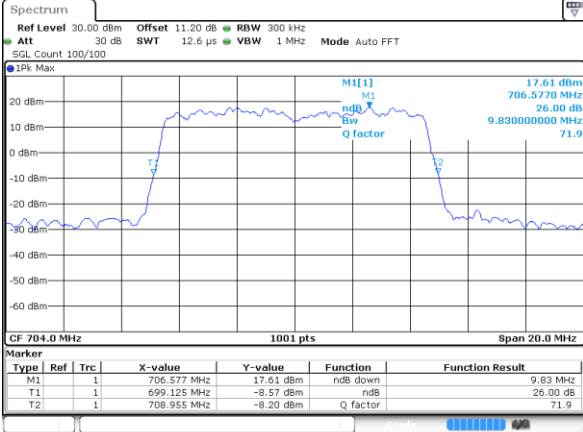


Date: 12 AUG 2020 01:49:29



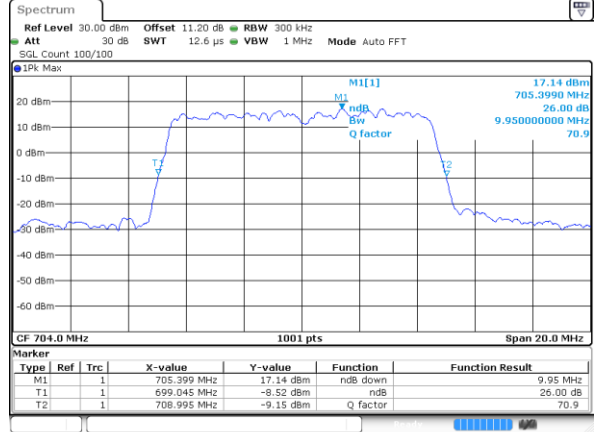
LTE Band 12

Lowest Channel / 10MHz / QPSK



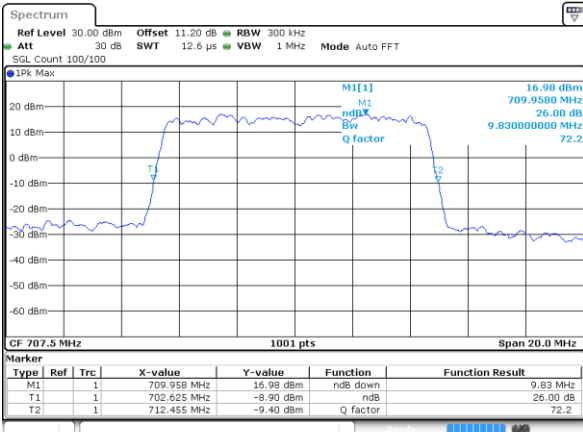
Date: 12 AUG 2020 01:55:53

Lowest Channel / 10MHz / 16QAM



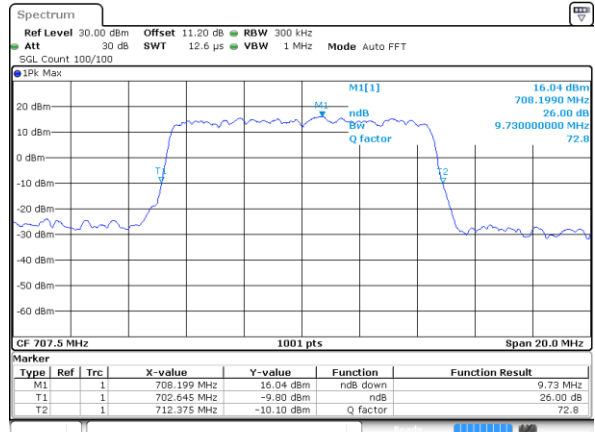
Date: 12 AUG 2020 01:55:42

Middle Channel / 10MHz / QPSK



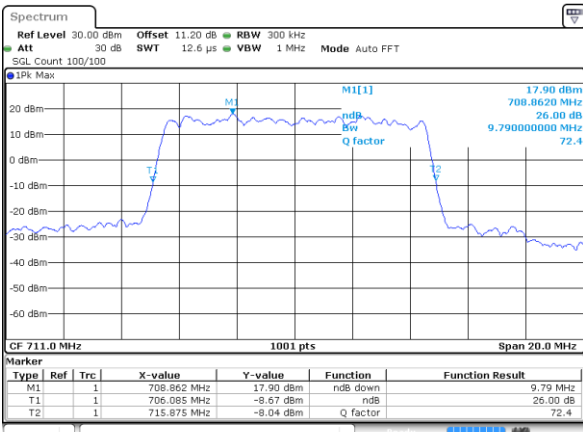
Date: 12 AUG 2020 02:01:52

Middle Channel / 10MHz / 16QAM



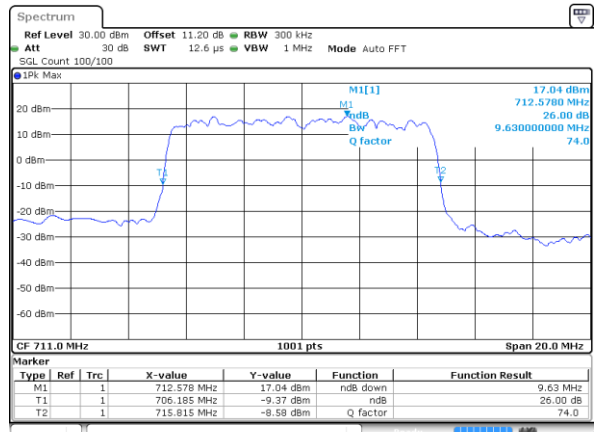
Date: 12 AUG 2020 02:02:03

Highest Channel / 10MHz / QPSK



Date: 12 AUG 2020 02:04:11

Highest Channel / 10MHz / 16QAM



Date: 12 AUG 2020 02:03:59