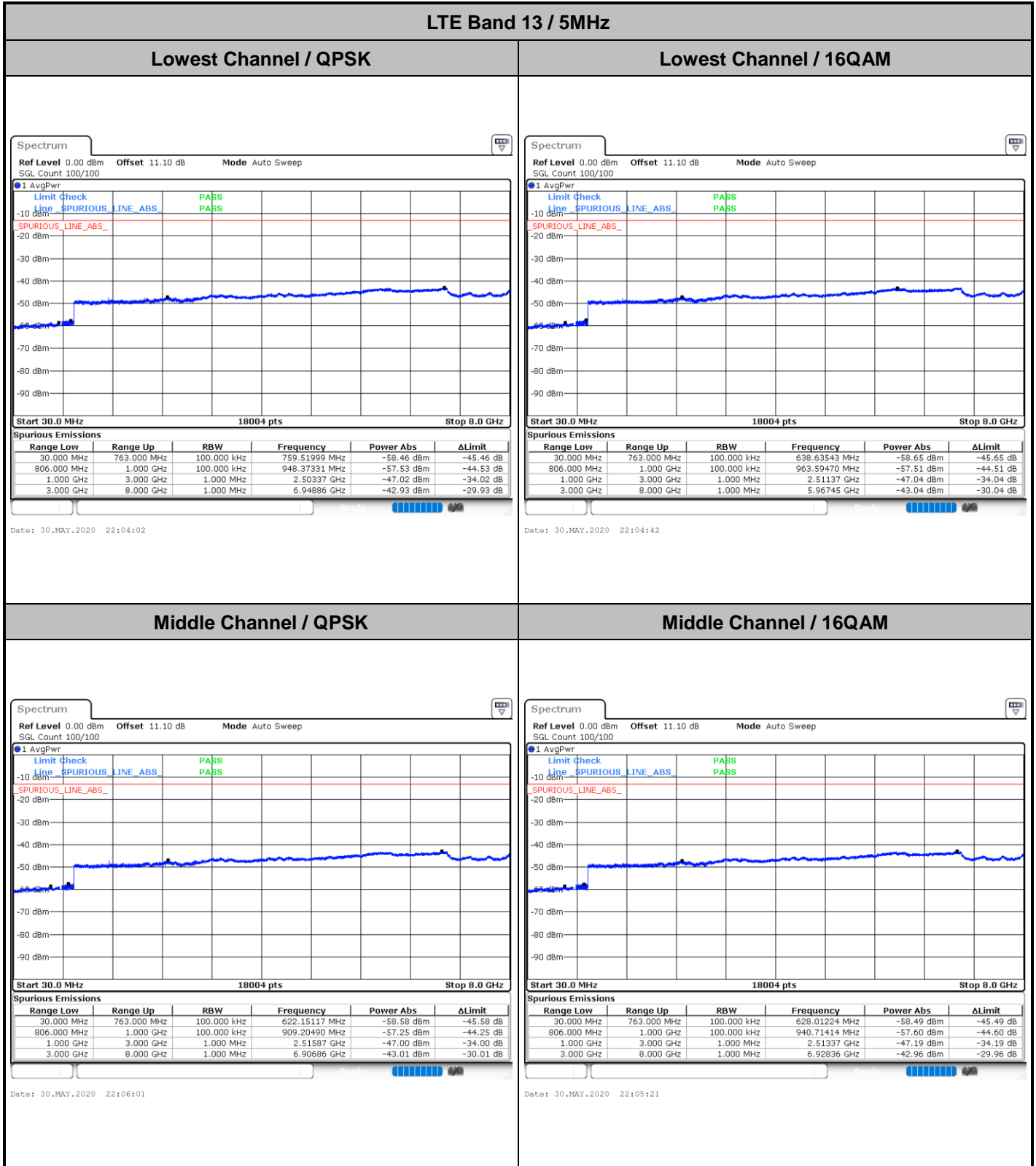




Conducted Spurious Emission

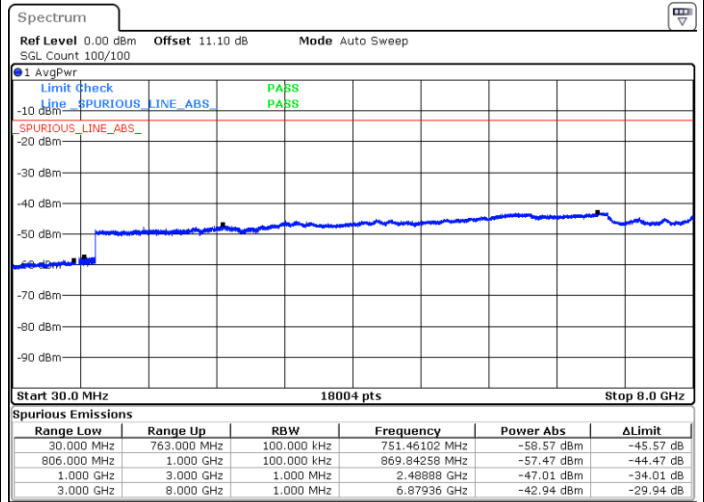
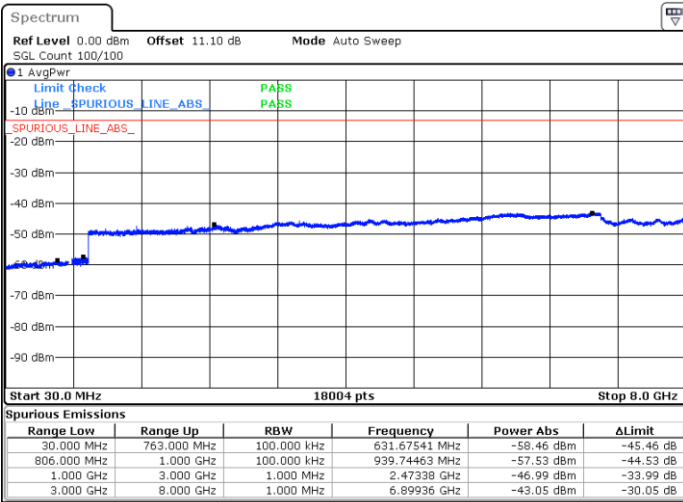




LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



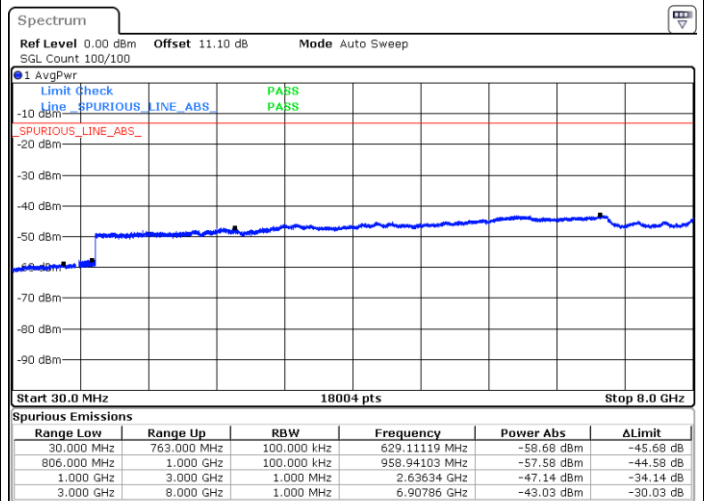
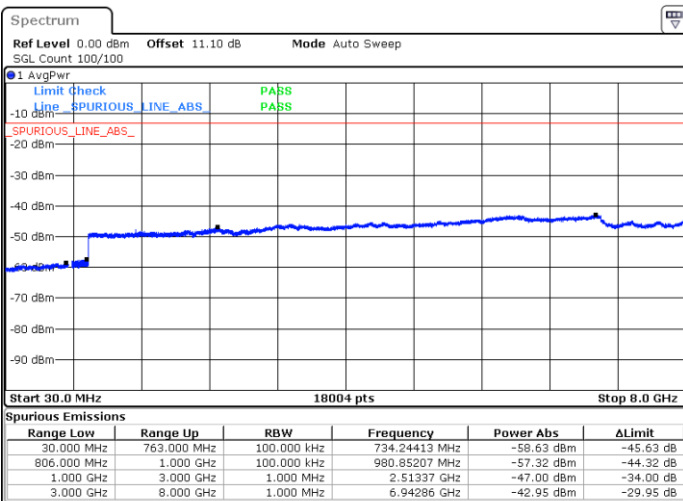
Date: 30.MAY.2020 22:14:53

Date: 30.MAY.2020 22:15:33

LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 30.MAY.2020 22:37:24

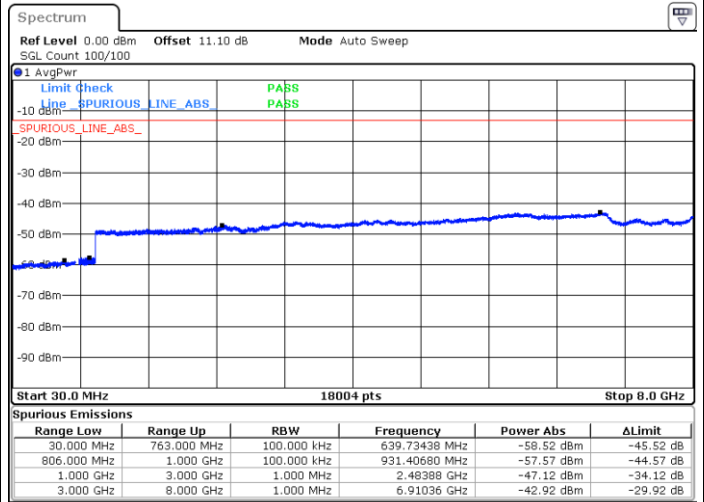
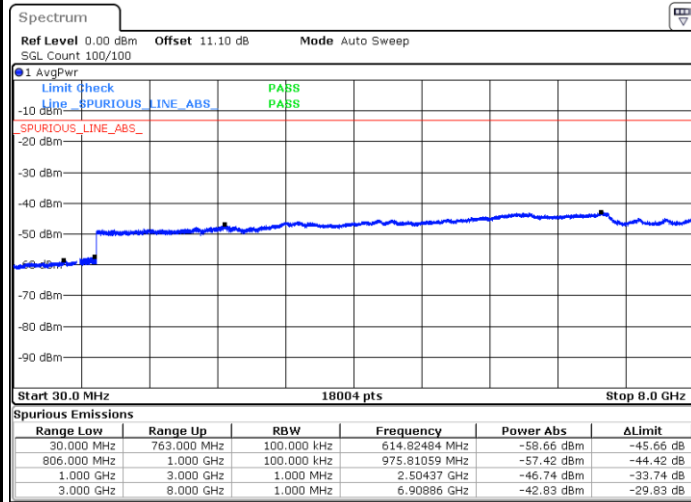
Date: 30.MAY.2020 22:36:45



LTE Band 13 / 5MHz

Lowest Channel / 64QAM

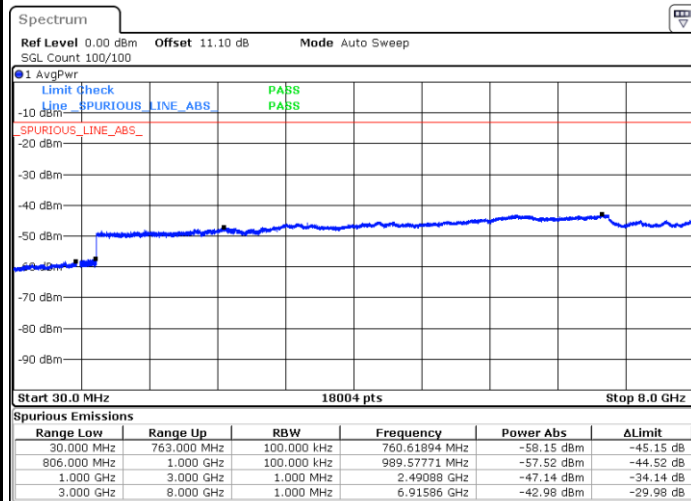
Middle Channel / 64QAM



Date: 30.MAY.2020 22:19:57

Date: 30.MAY.2020 22:20:36

Highest Channel / 64QAM

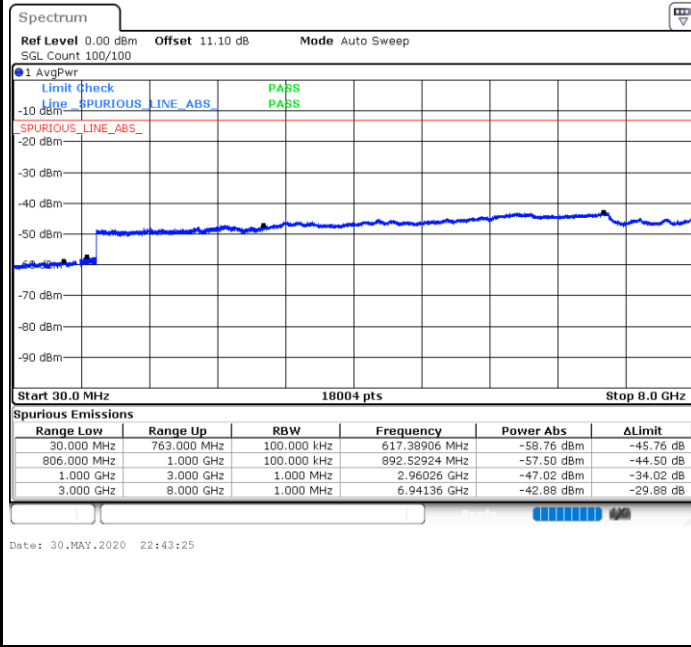


Date: 30.MAY.2020 22:25:22



LTE Band 13 / 10MHz

Middle Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0233	PASS
40	Normal Voltage	0.0171	
30	Normal Voltage	0.0133	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0134	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0136	
-20	Normal Voltage	0.0168	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0148	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0129	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

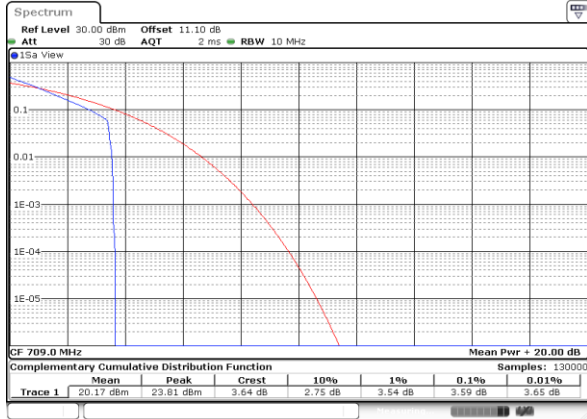
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	5.01	5.77	5.86	PASS
Middle CH	3.71	5.04	5.25	5.91	
Highest CH	3.71	5.01	5.28	5.86	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.96	6.41	-	-	PASS
Middle CH	7.22	6.41	-	-	
Highest CH	6.64	6.46	-	-	



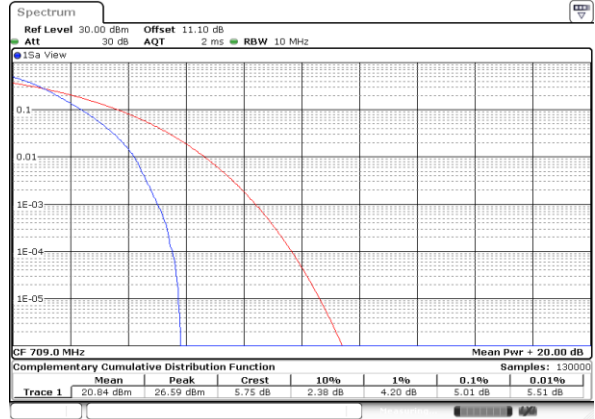
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



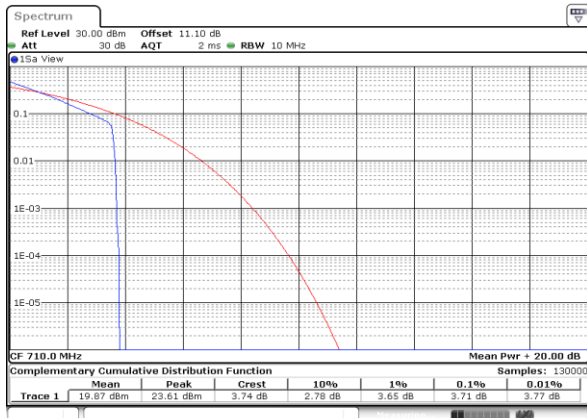
Date: 30.MAY.2020 23:23:32

Lowest Channel / Full RB



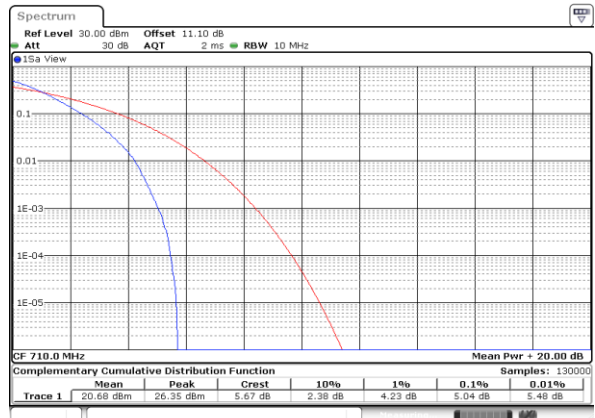
Date: 30.MAY.2020 23:23:45

Middle Channel / 1RB



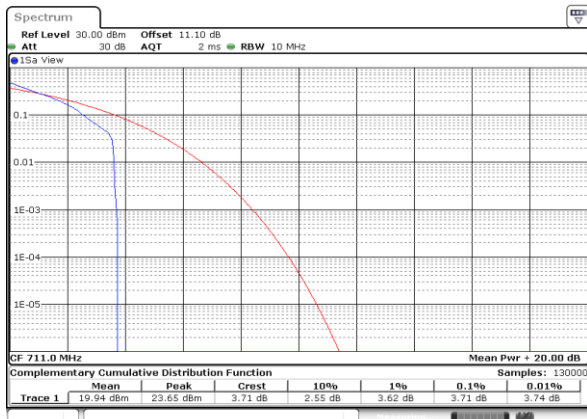
Date: 30.MAY.2020 23:23:57

Middle Channel / Full RB



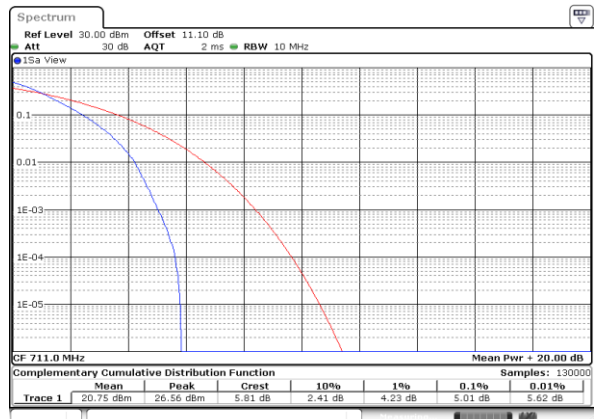
Date: 30.MAY.2020 23:24:09

Highest Channel / 1RB



Date: 30.MAY.2020 23:24:30

Highest Channel / Full RB

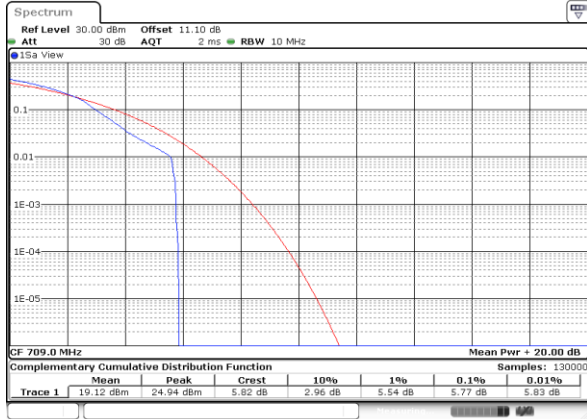


Date: 30.MAY.2020 23:24:46



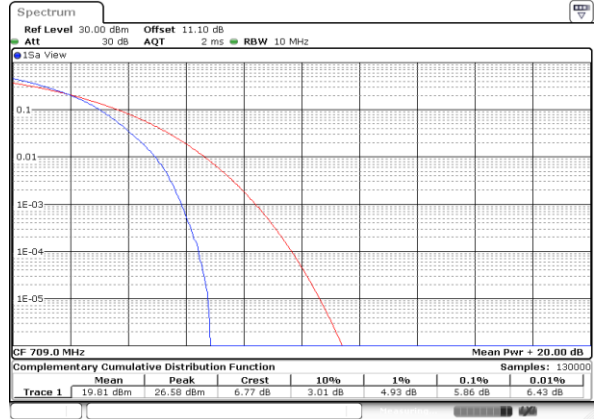
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



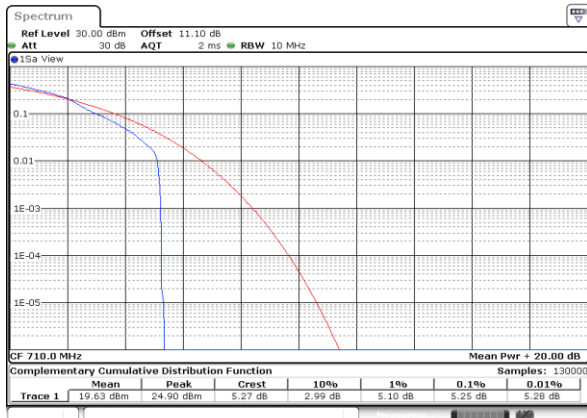
Date: 30.MAY.2020 23:22:03

Lowest Channel / Full RB



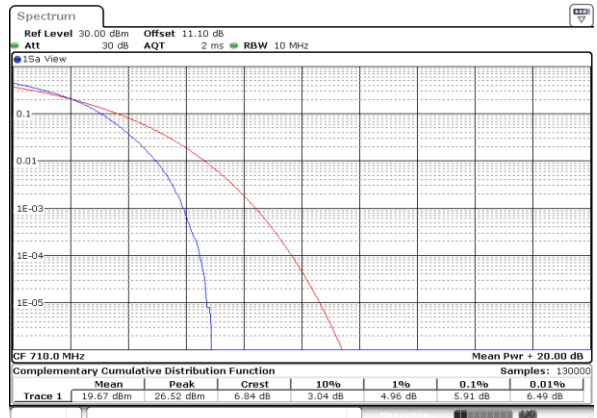
Date: 30.MAY.2020 23:22:14

Middle Channel / 1RB



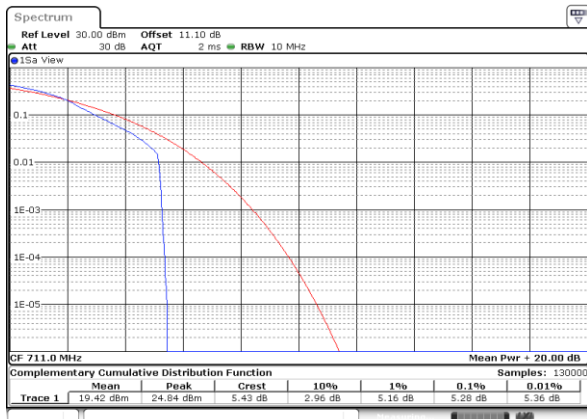
Date: 30.MAY.2020 23:22:25

Middle Channel / Full RB



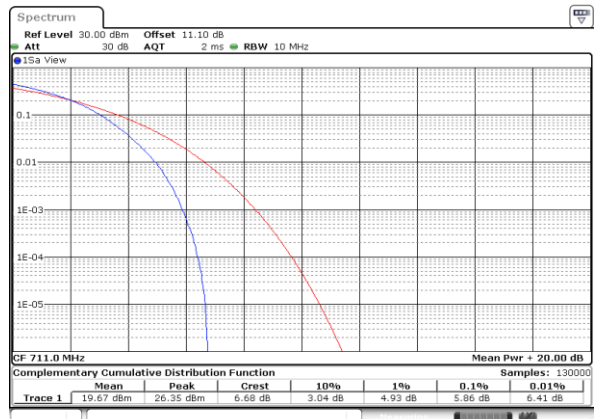
Date: 30.MAY.2020 23:22:38

Highest Channel / 1RB



Date: 30.MAY.2020 23:22:55

Highest Channel / Full RB

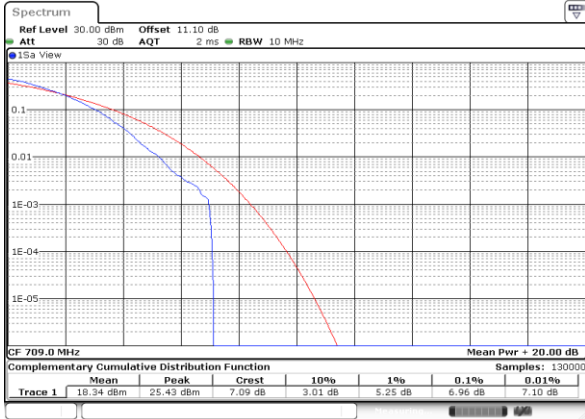


Date: 30.MAY.2020 23:23:19



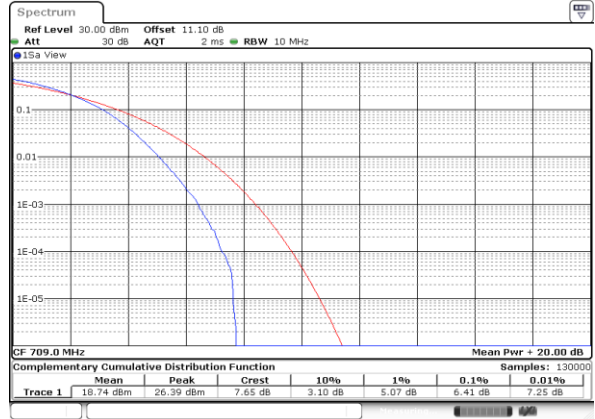
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



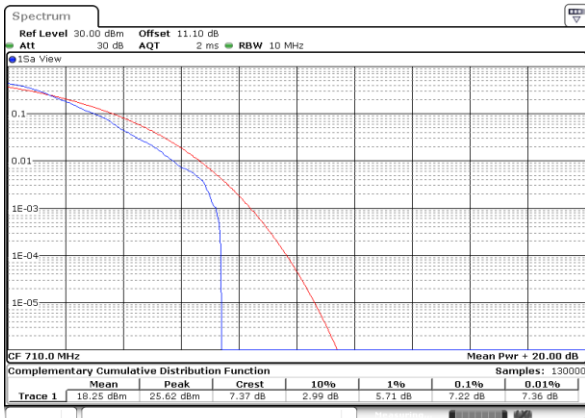
Date: 30.MAY.2020 23:25:01

Lowest Channel / Full RB



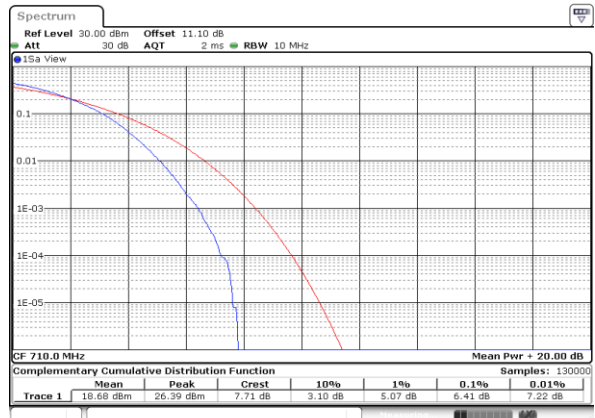
Date: 30.MAY.2020 23:25:15

Middle Channel / 1RB



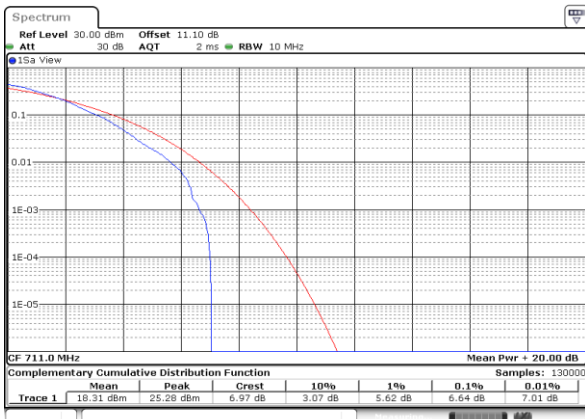
Date: 30.MAY.2020 23:25:27

Middle Channel / Full RB



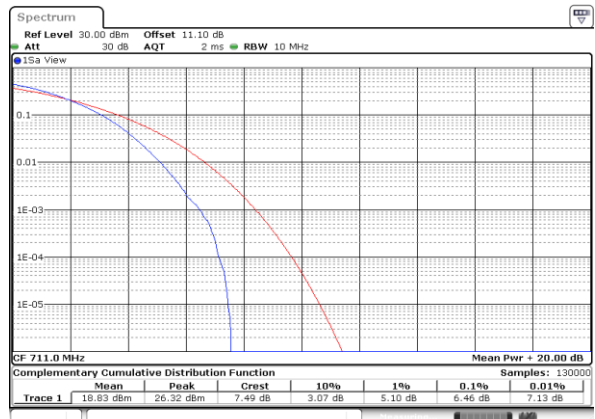
Date: 30.MAY.2020 23:25:39

Highest Channel / 1RB



Date: 30.MAY.2020 23:25:51

Highest Channel / Full RB



Date: 30.MAY.2020 23:26:08



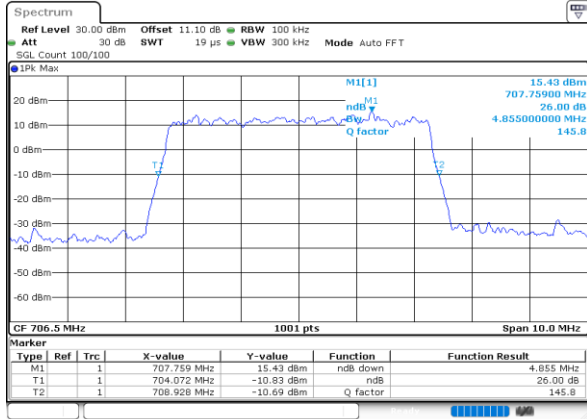
26dB Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.86	4.87	9.77	9.75	-	-	-	-
Middle CH	-	-	-	-	4.89	4.91	9.69	9.75	-	-	-	-
Highest CH	-	-	-	-	4.76	4.85	9.69	9.85	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.92	-	9.69	-	-	-	-	-
Middle CH	-	-	-	-	4.90	-	9.63	-	-	-	-	-
Highest CH	-	-	-	-	4.94	-	9.69	-	-	-	-	-



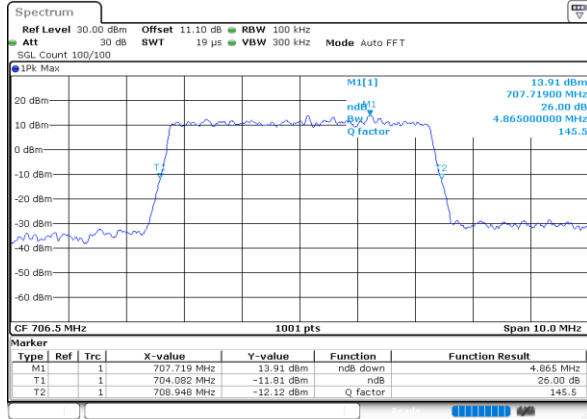
LTE Band 17

Lowest Channel / 5MHz / QPSK



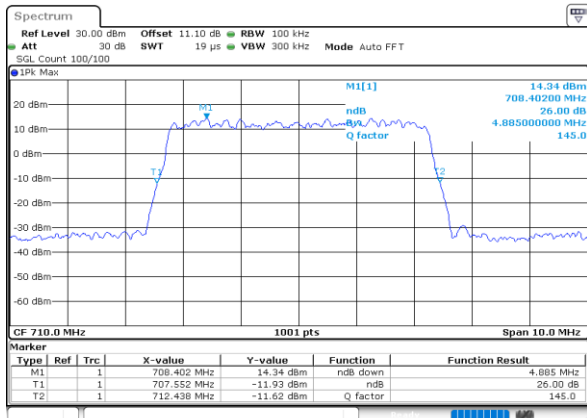
Date: 30.MAY.2020 22:46:31

Lowest Channel / 5MHz / 16QAM



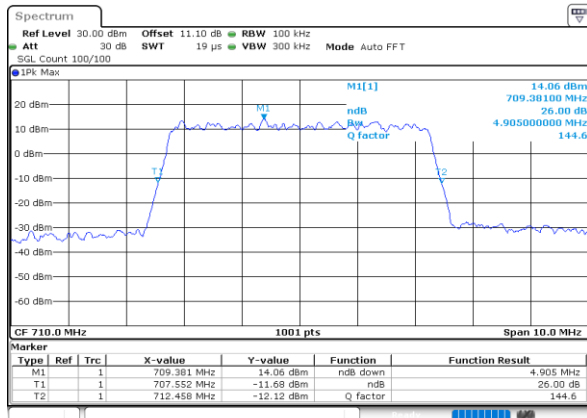
Date: 30.MAY.2020 22:46:43

Middle Channel / 5MHz / QPSK



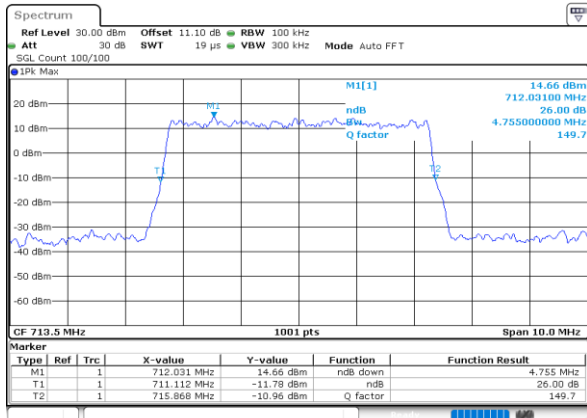
Date: 30.MAY.2020 22:51:33

Middle Channel / 5MHz / 16QAM



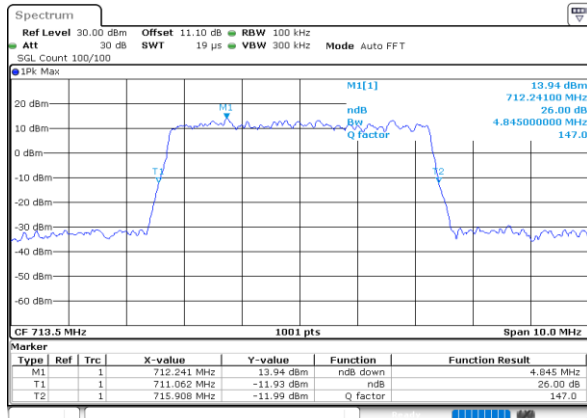
Date: 30.MAY.2020 22:51:45

Highest Channel / 5MHz / QPSK



Date: 30.MAY.2020 22:53:39

Highest Channel / 5MHz / 16QAM

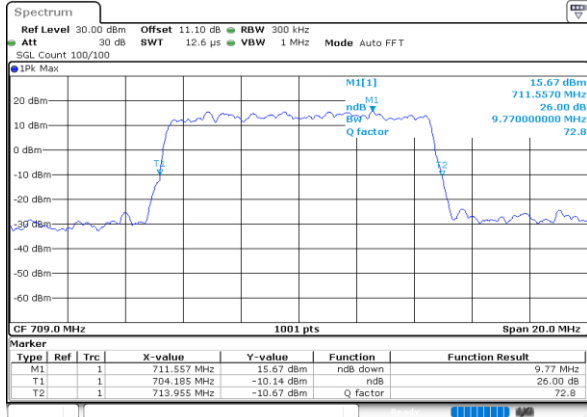


Date: 30.MAY.2020 22:53:51



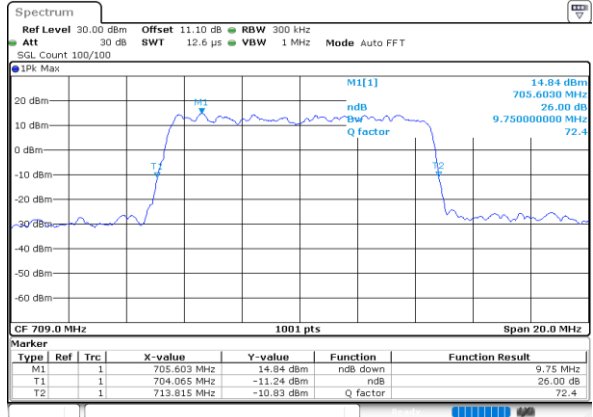
LTE Band 17

Lowest Channel / 10MHz / QPSK



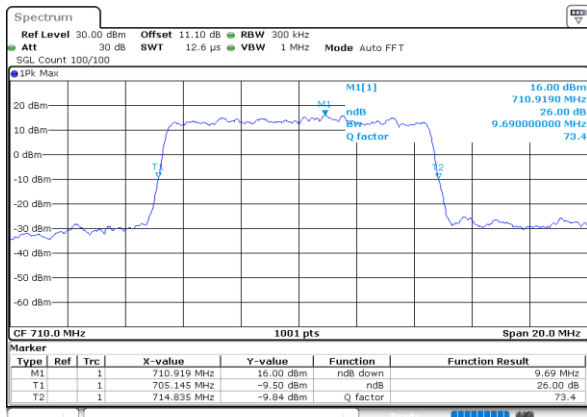
Date: 30.MAY.2020 22:58:29

Lowest Channel / 10MHz / 16QAM



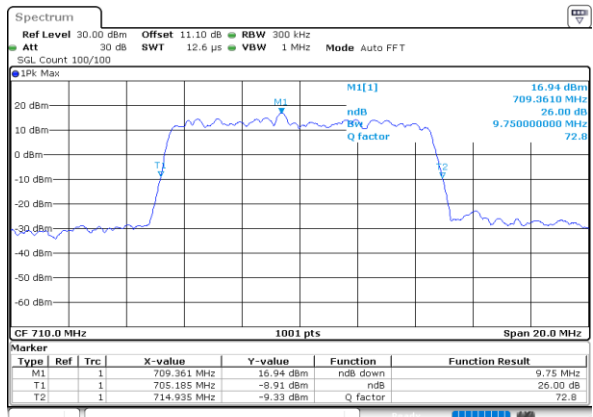
Date: 30.MAY.2020 22:58:41

Middle Channel / 10MHz / QPSK



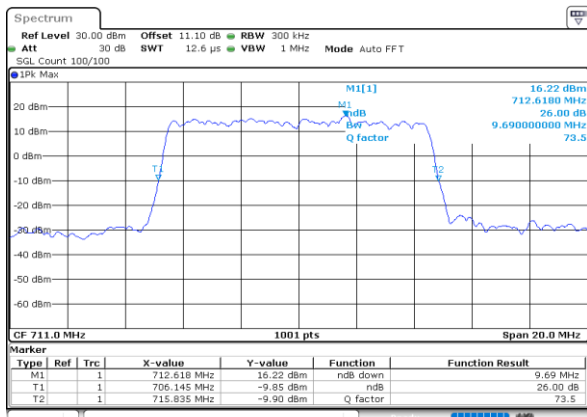
Date: 30.MAY.2020 23:03:31

Middle Channel / 10MHz / 16QAM



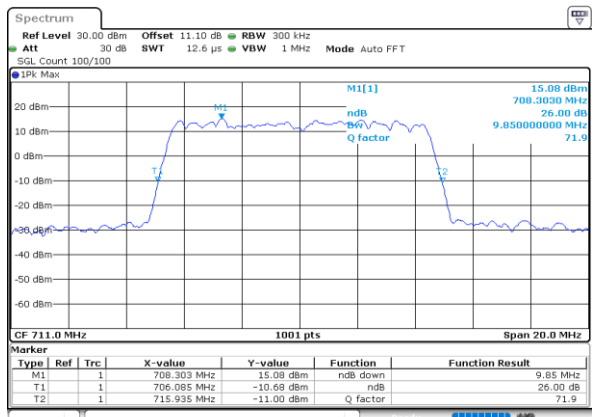
Date: 30.MAY.2020 23:03:42

Highest Channel / 10MHz / QPSK



Date: 30.MAY.2020 23:05:37

Highest Channel / 10MHz / 16QAM

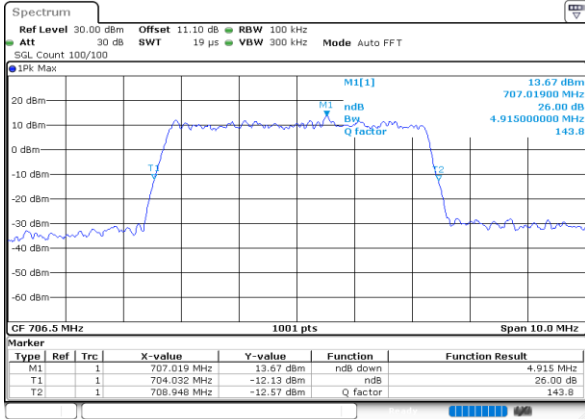


Date: 30.MAY.2020 23:05:49



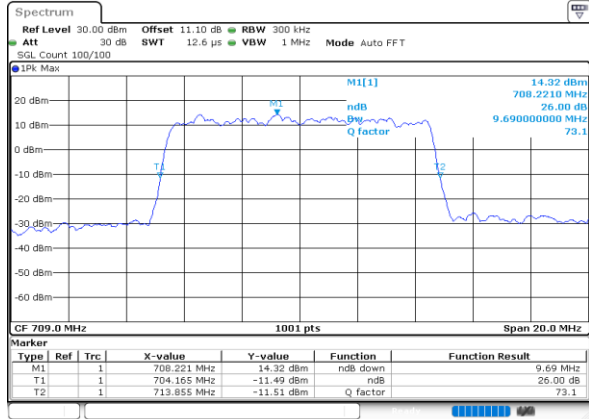
LTE Band 17

Lowest Channel / 5MHz / 64QAM



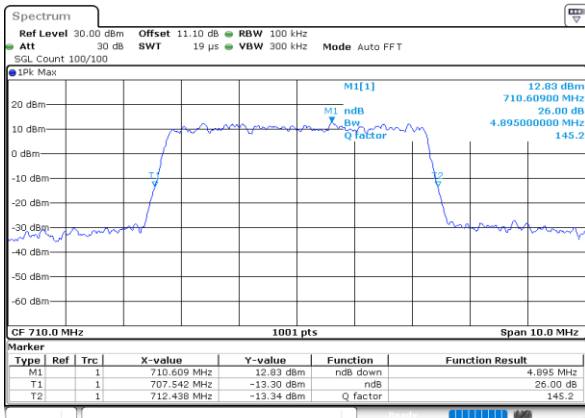
Date: 30.MAY.2020 23:10:15

Lowest Channel / 10MHz / 64QAM



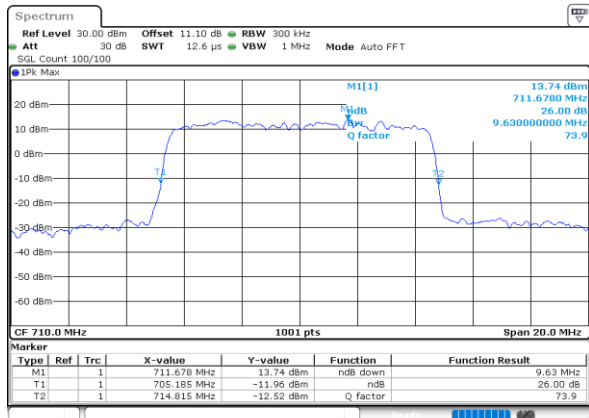
Date: 30.MAY.2020 23:16:13

Middle Channel / 5MHz / 64QAM



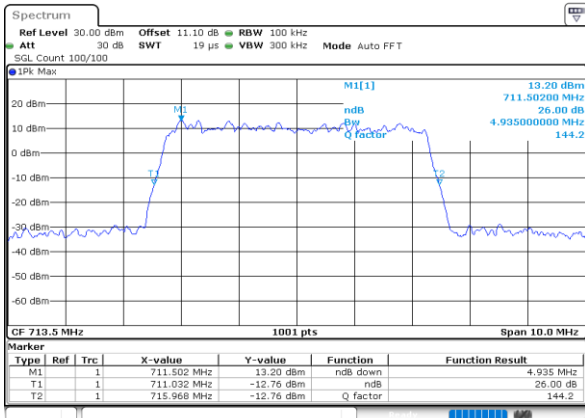
Date: 30.MAY.2020 23:12:45

Middle Channel / 10MHz / 64QAM



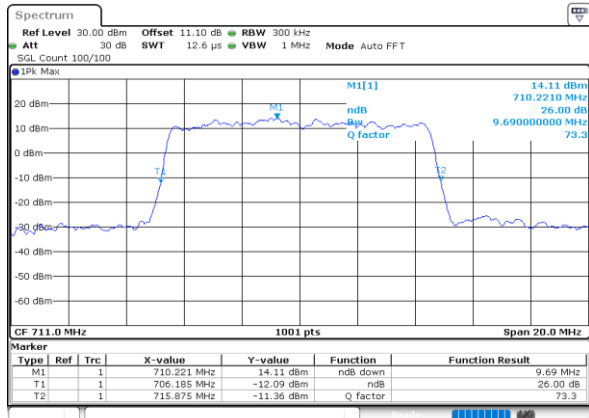
Date: 30.MAY.2020 23:18:44

Highest Channel / 5MHz / 64QAM



Date: 30.MAY.2020 23:13:46

Highest Channel / 10MHz / 64QAM



Date: 30.MAY.2020 23:19:47



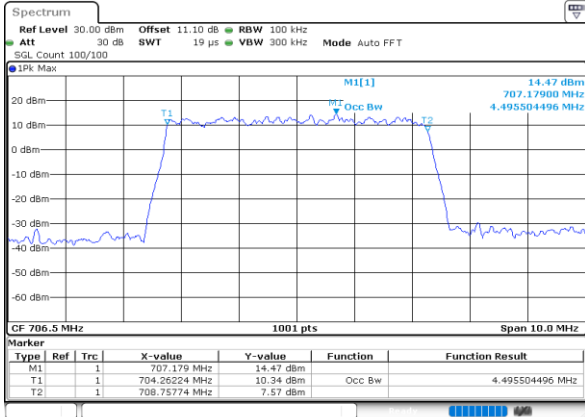
Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.49	9.05	8.99	-	-	-	-
Middle CH	-	-	-	-	4.49	4.48	9.03	8.91	-	-	-	-
Highest CH	-	-	-	-	4.48	4.48	8.97	8.95	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	8.99	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.48	-	9.01	-	-	-	-	-



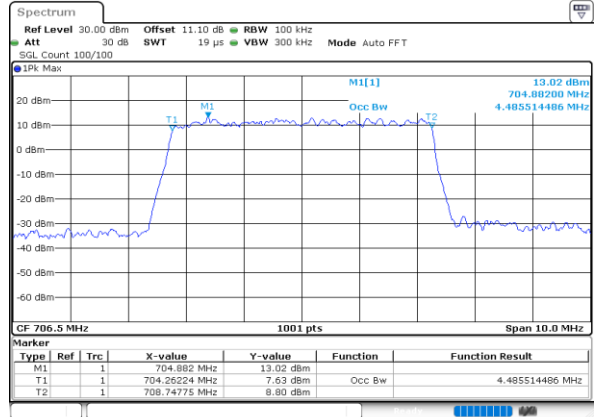
LTE Band 17

Lowest Channel / 5MHz / QPSK



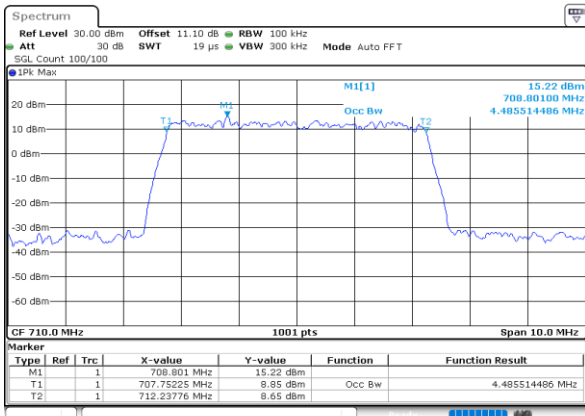
Date: 30.MAY.2020 22:46:07

Lowest Channel / 5MHz / 16QAM



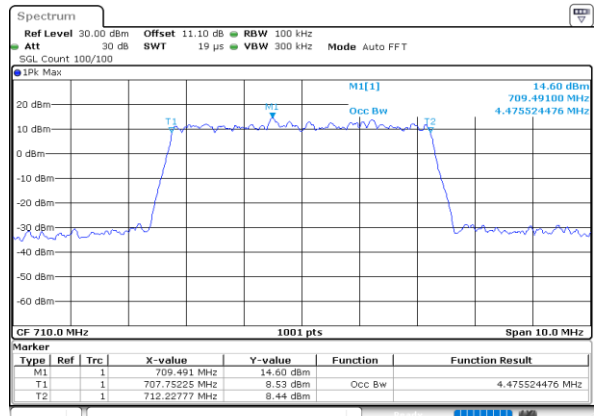
Date: 30.MAY.2020 22:46:19

Middle Channel / 5MHz / QPSK



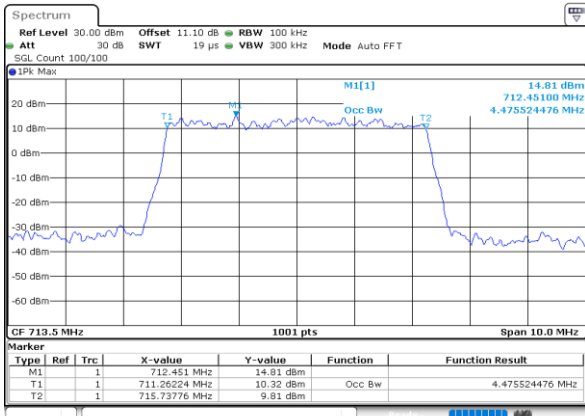
Date: 30.MAY.2020 22:51:11

Middle Channel / 5MHz / 16QAM



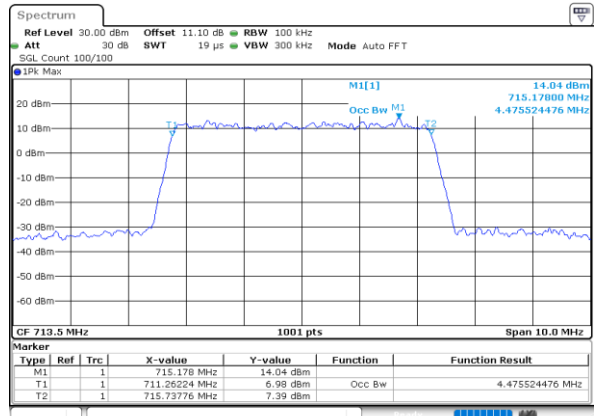
Date: 30.MAY.2020 22:51:22

Highest Channel / 5MHz / QPSK



Date: 30.MAY.2020 22:53:15

Highest Channel / 5MHz / 16QAM

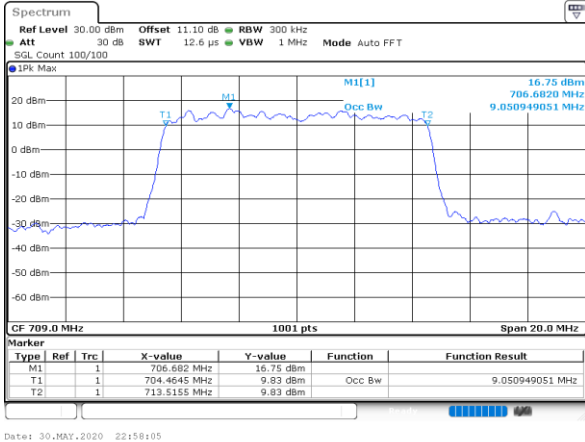


Date: 30.MAY.2020 22:53:27



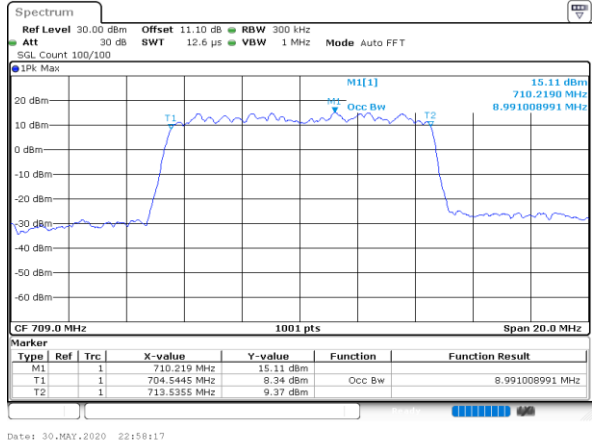
LTE Band 17

Lowest Channel / 10MHz / QPSK



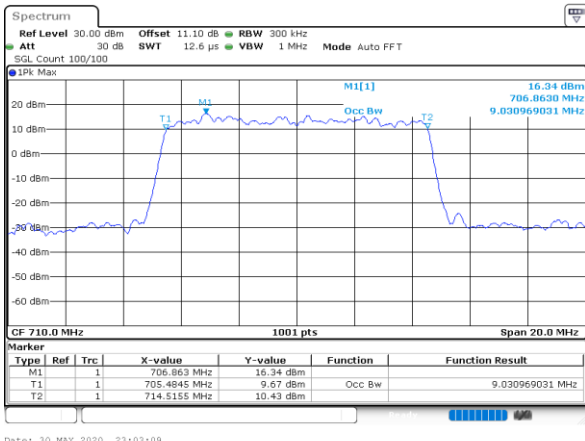
Date: 30.MAY.2020 22:58:05

Lowest Channel / 10MHz / 16QAM



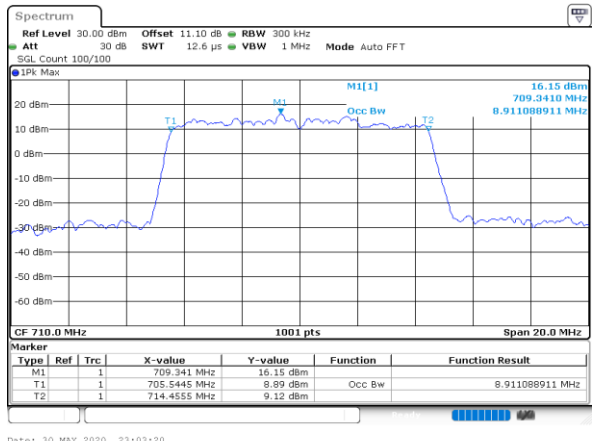
Date: 30.MAY.2020 22:58:17

Middle Channel / 10MHz / QPSK



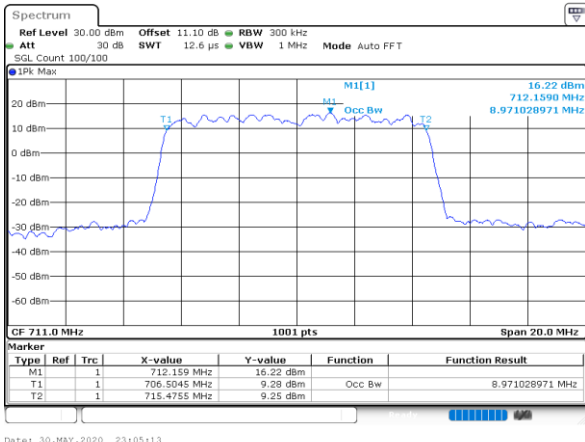
Date: 30.MAY.2020 23:03:09

Middle Channel / 10MHz / 16QAM



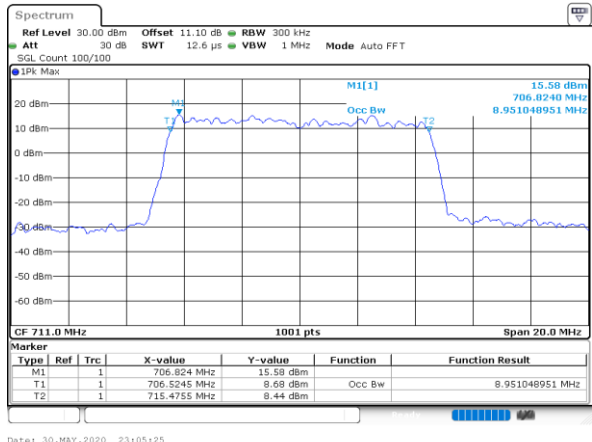
Date: 30.MAY.2020 23:03:20

Highest Channel / 10MHz / QPSK



Date: 30.MAY.2020 23:05:13

Highest Channel / 10MHz / 16QAM

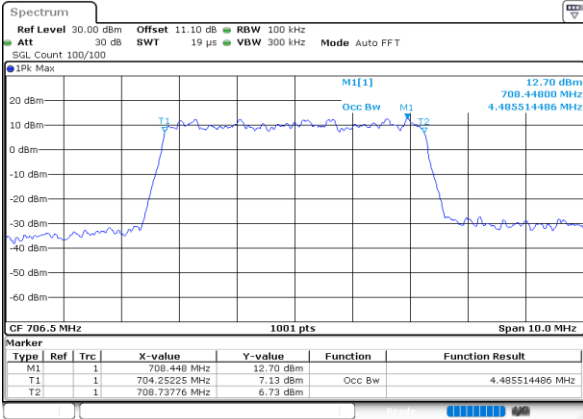


Date: 30.MAY.2020 23:05:25



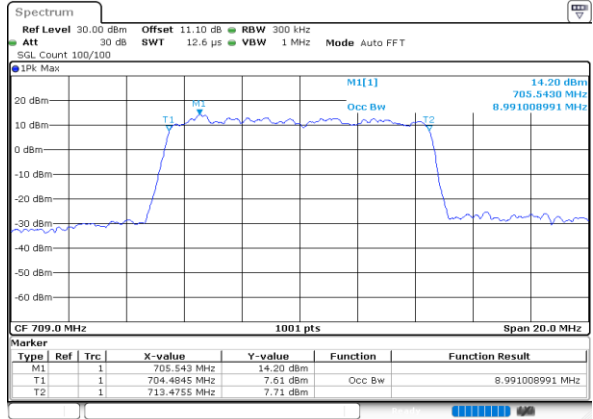
LTE Band 17

Lowest Channel / 5MHz / 64QAM



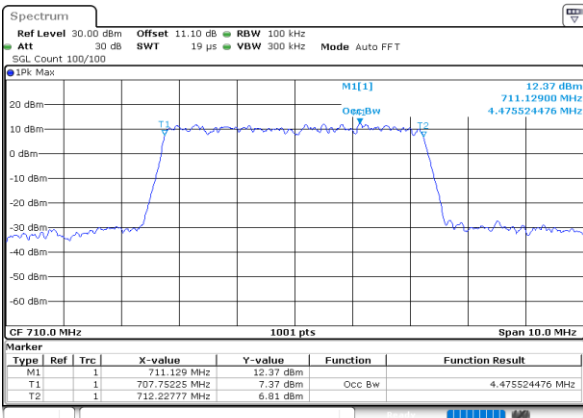
Date: 30.MAY.2020 23:10:03

Lowest Channel / 10MHz / 64QAM



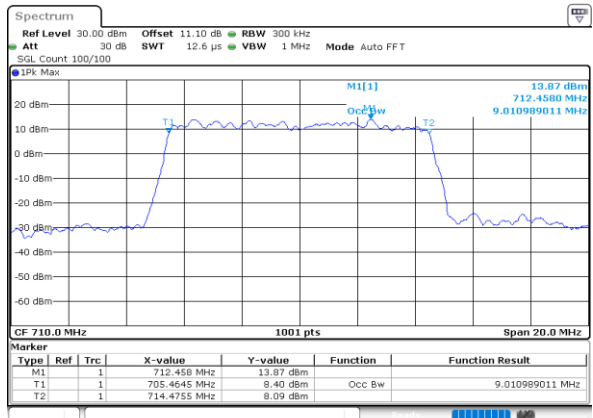
Date: 30.MAY.2020 23:16:02

Middle Channel / 5MHz / 64QAM



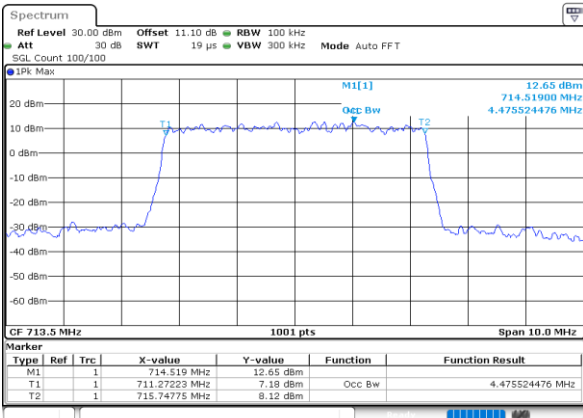
Date: 30.MAY.2020 23:12:34

Middle Channel / 10MHz / 64QAM



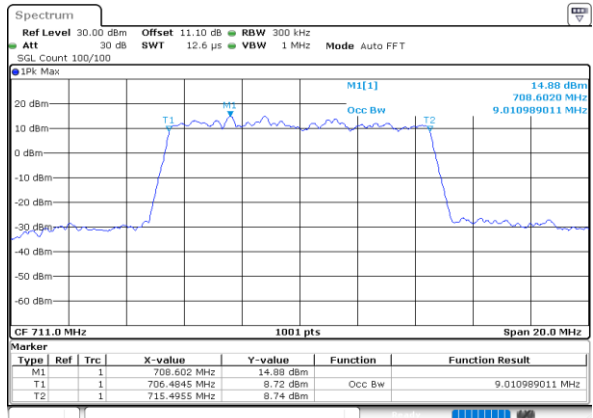
Date: 30.MAY.2020 23:18:33

Highest Channel / 5MHz / 64QAM



Date: 30.MAY.2020 23:13:37

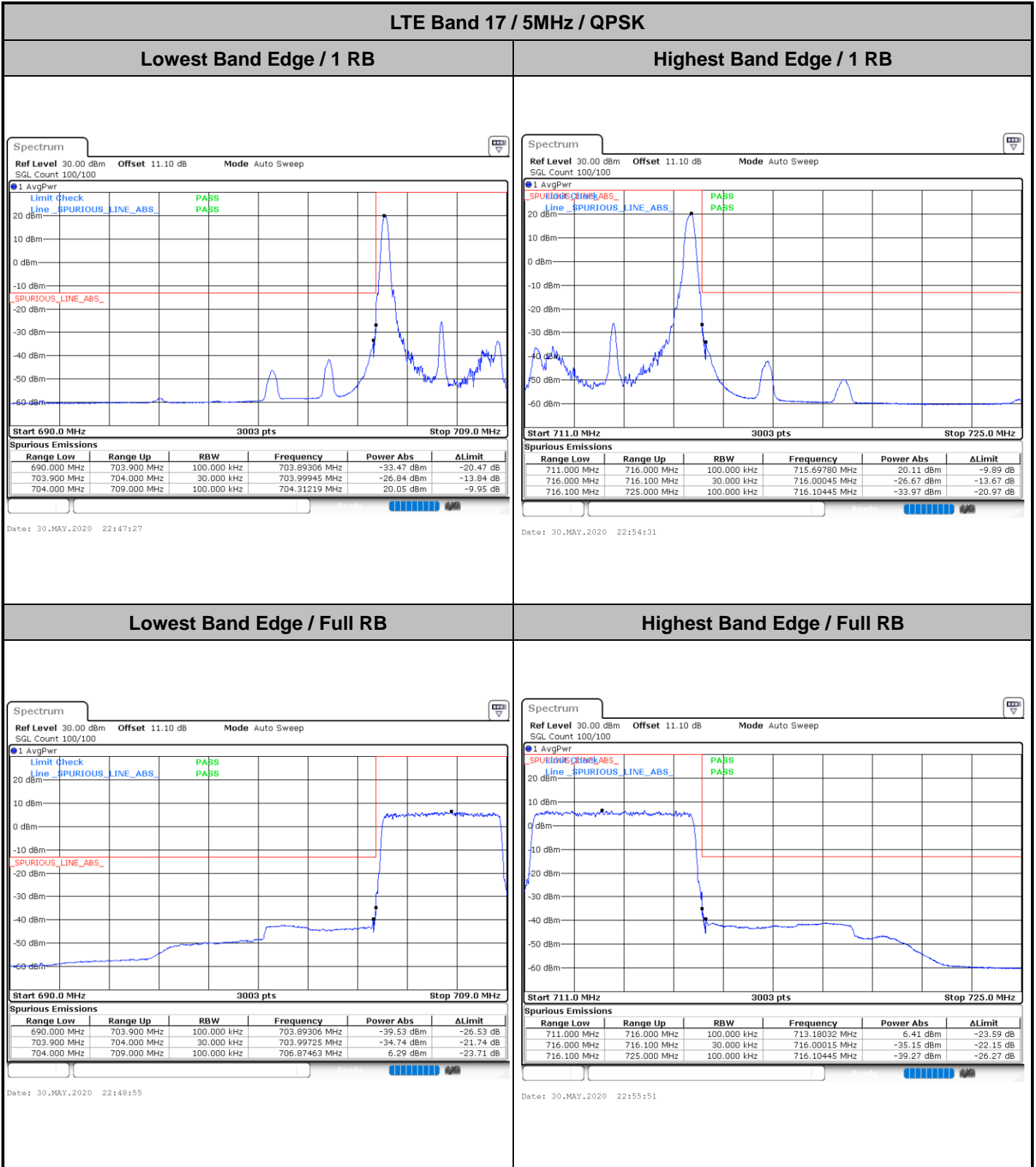
Highest Channel / 10MHz / 64QAM



Date: 30.MAY.2020 23:19:36



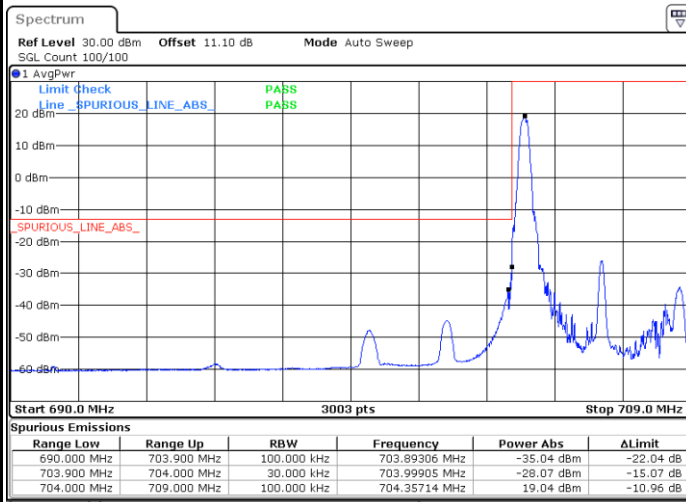
Conducted Band Edge





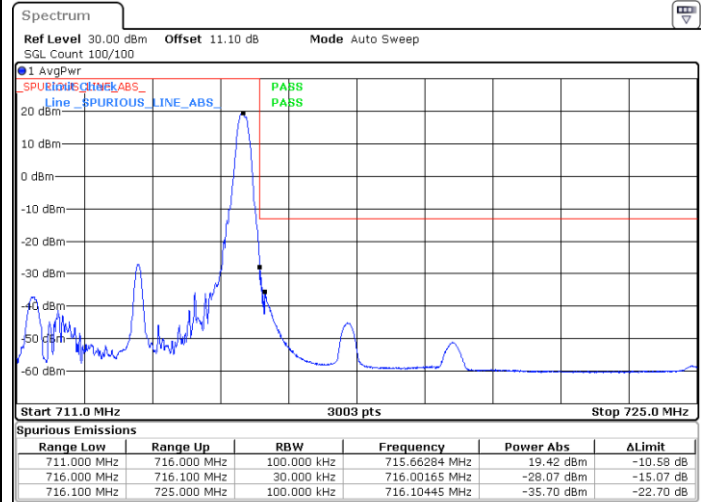
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



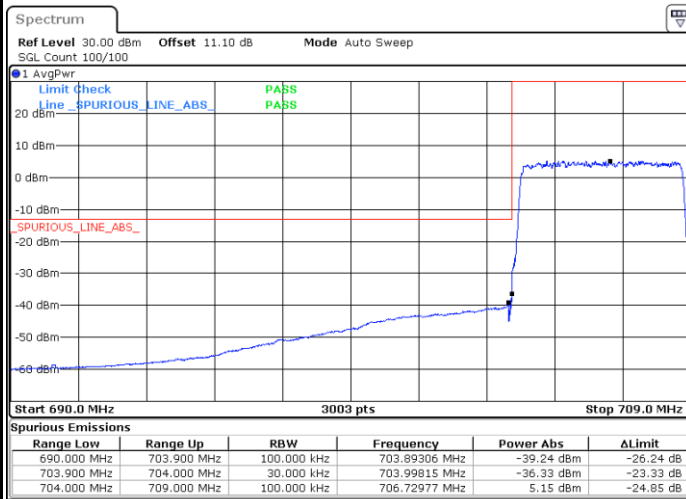
Date: 30.MAY.2020 22:48:11

Highest Band Edge / 1 RB



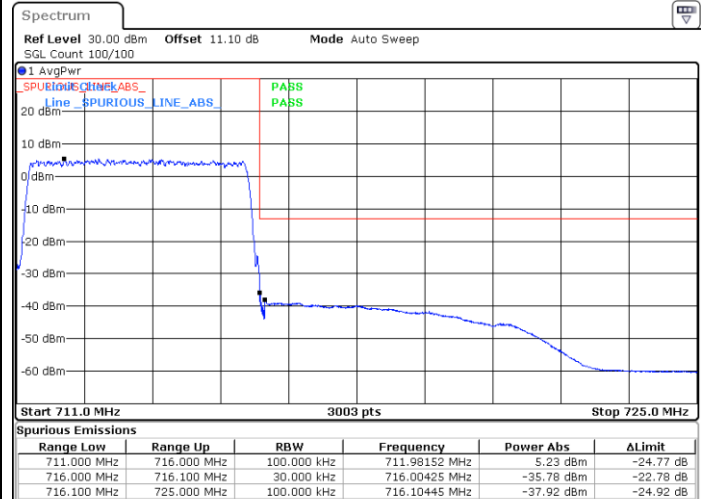
Date: 30.MAY.2020 22:55:11

Lowest Band Edge / Full RB



Date: 30.MAY.2020 22:49:38

Highest Band Edge / Full RB

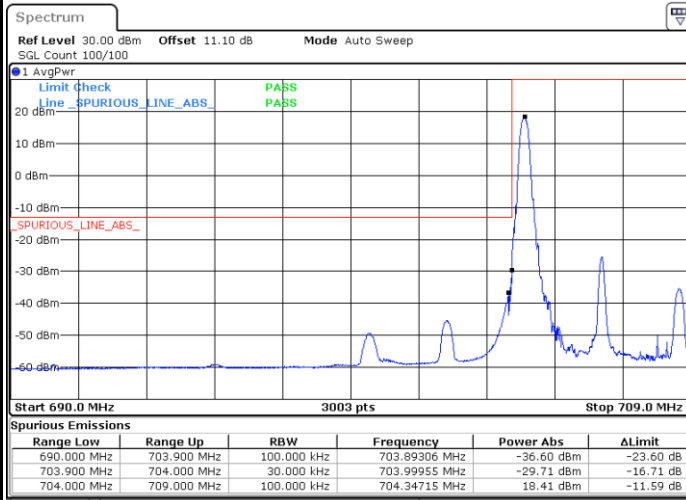


Date: 30.MAY.2020 22:56:31



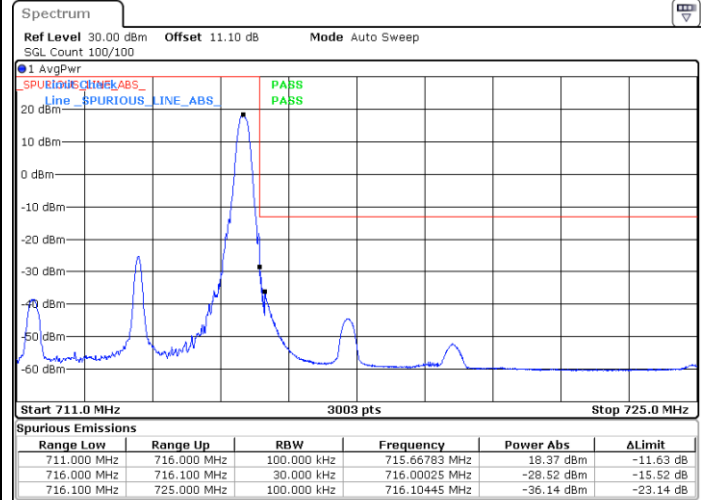
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



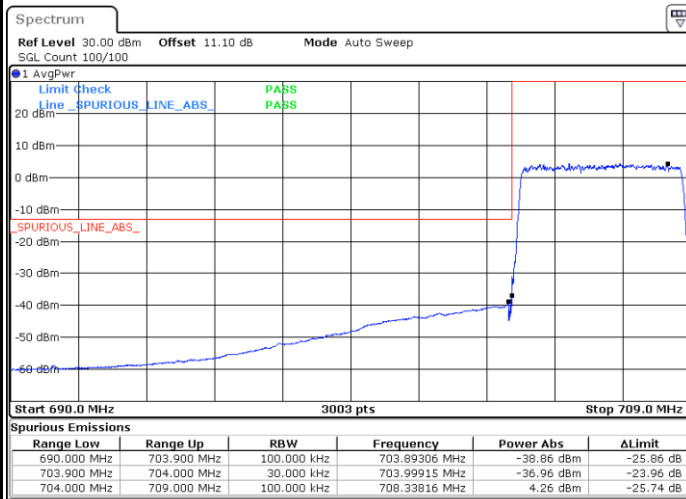
Date: 30.MAY.2020 23:10:59

Highest Band Edge / 1 RB



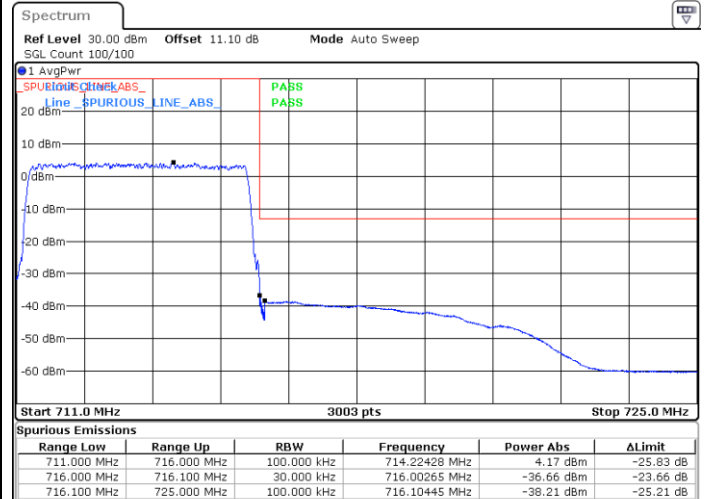
Date: 30.MAY.2020 23:14:28

Lowest Band Edge / Full RB



Date: 30.MAY.2020 23:11:42

Highest Band Edge / Full RB

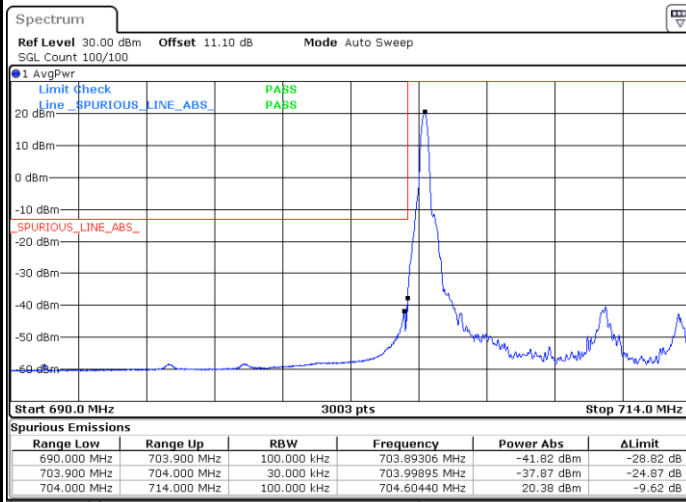


Date: 30.MAY.2020 23:15:08



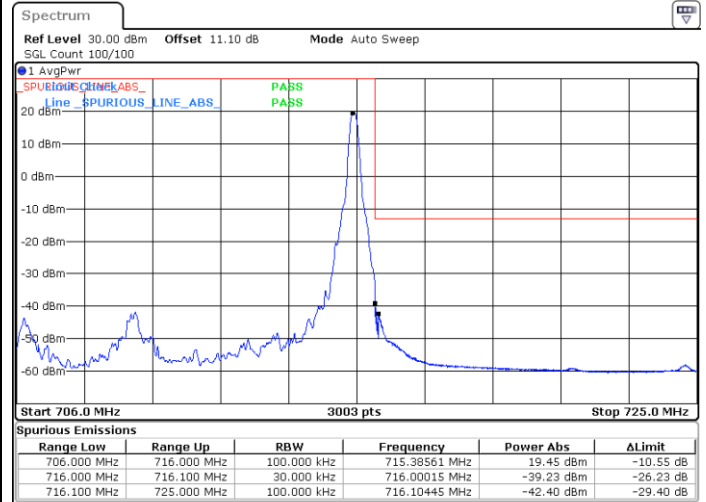
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



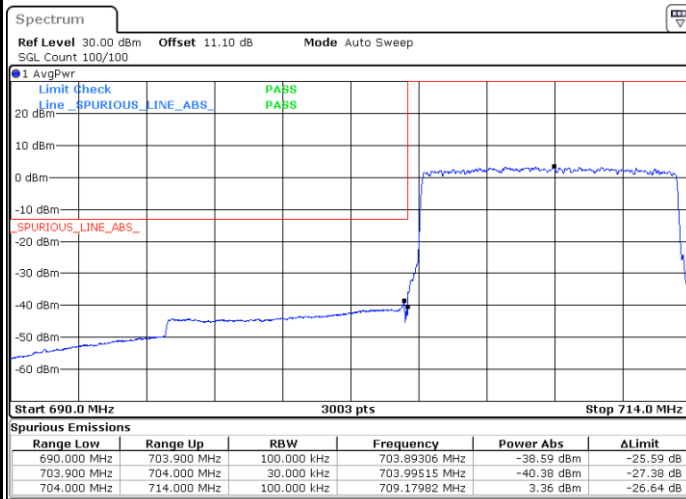
Date: 30.MAY.2020 22:59:24

Highest Band Edge / 1 RB



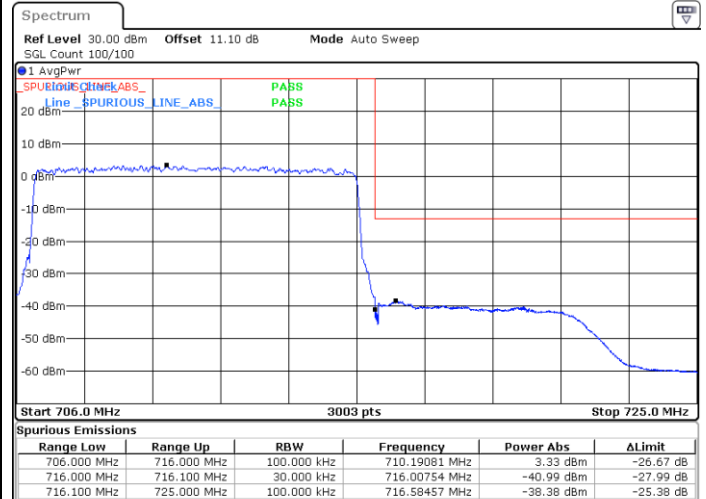
Date: 30.MAY.2020 23:06:29

Lowest Band Edge / Full RB



Date: 30.MAY.2020 23:00:53

Highest Band Edge / Full RB

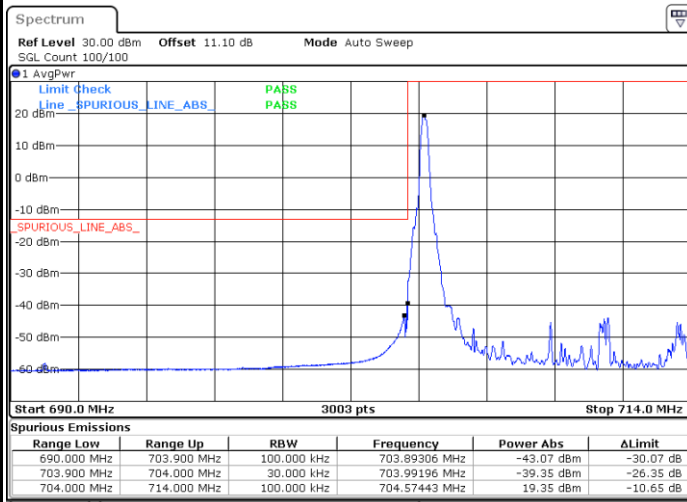


Date: 30.MAY.2020 23:07:49



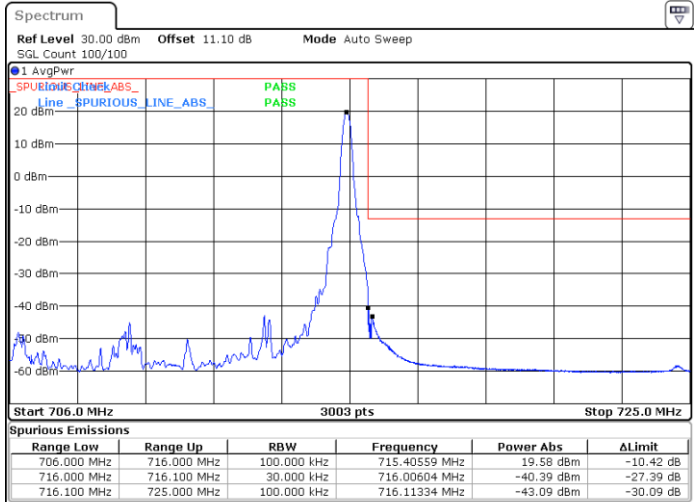
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



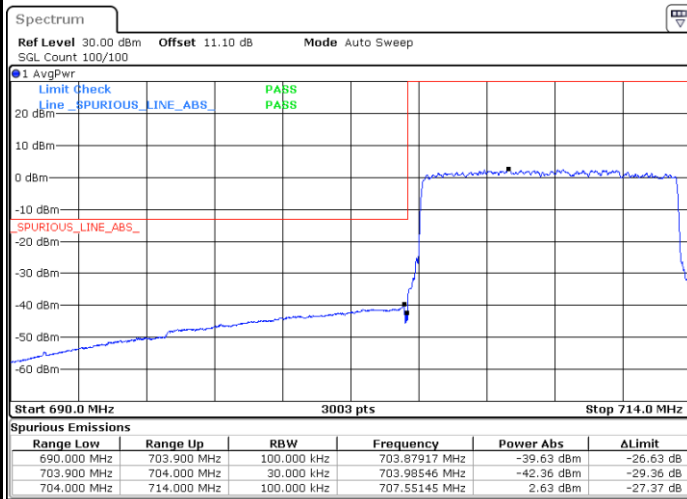
Date: 30.MAY.2020 23:00:08

Highest Band Edge / 1 RB



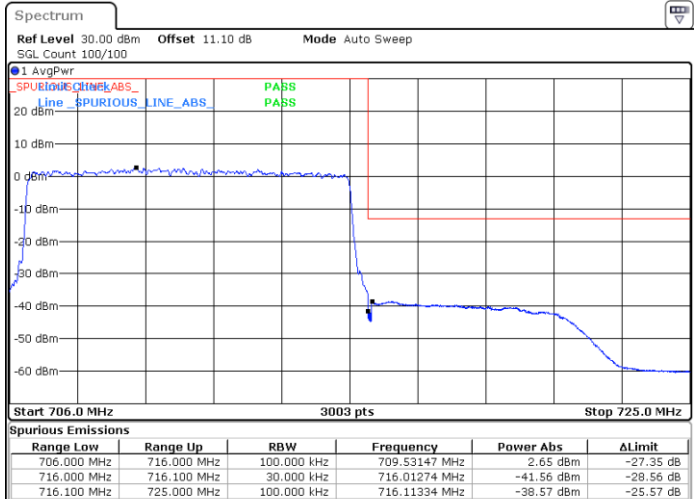
Date: 30.MAY.2020 23:07:09

Lowest Band Edge / Full RB



Date: 30.MAY.2020 23:01:36

Highest Band Edge / Full RB

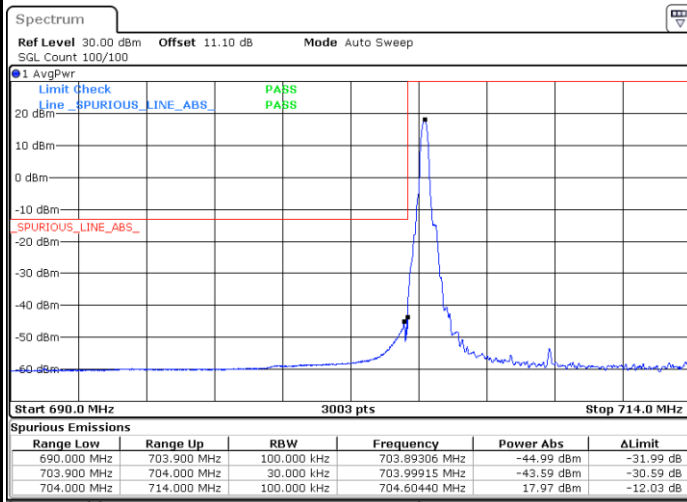


Date: 30.MAY.2020 23:08:29



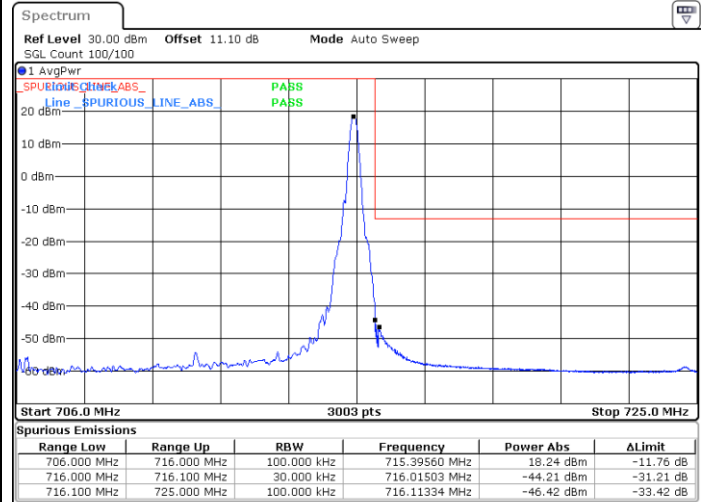
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



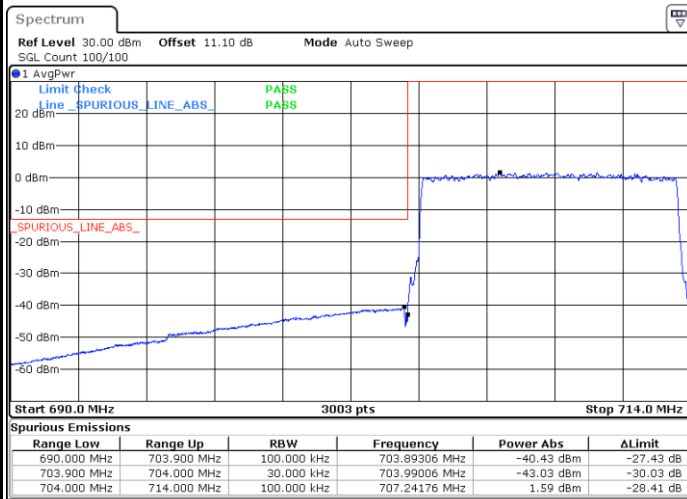
Date: 30.MAY.2020 23:16:57

Highest Band Edge / 1 RB



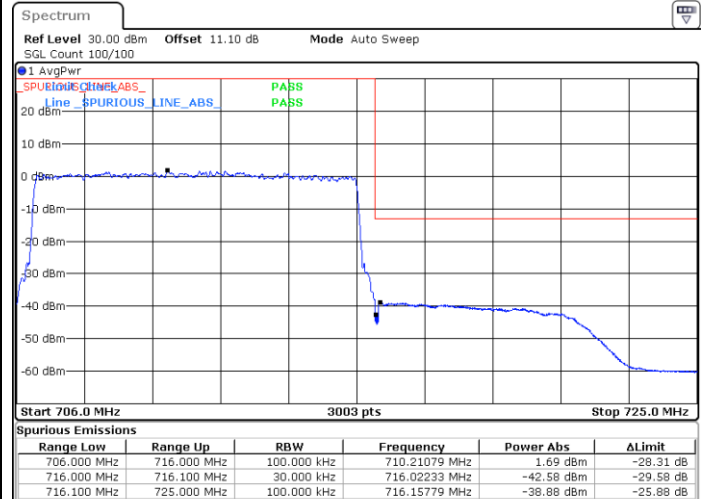
Date: 30.MAY.2020 23:20:27

Lowest Band Edge / Full RB



Date: 30.MAY.2020 23:17:41

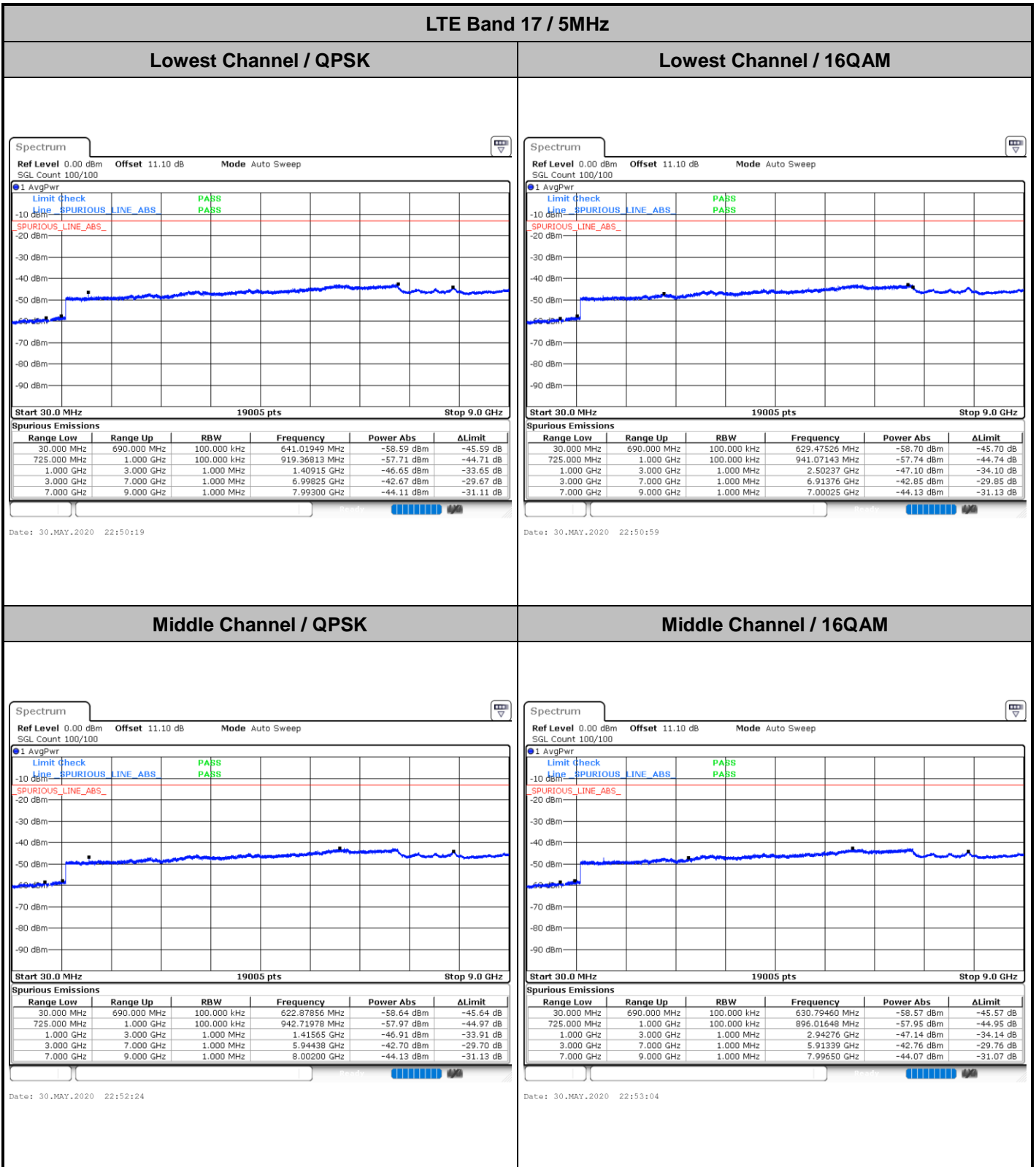
Highest Band Edge / Full RB



Date: 30.MAY.2020 23:21:07



Conducted Spurious Emission

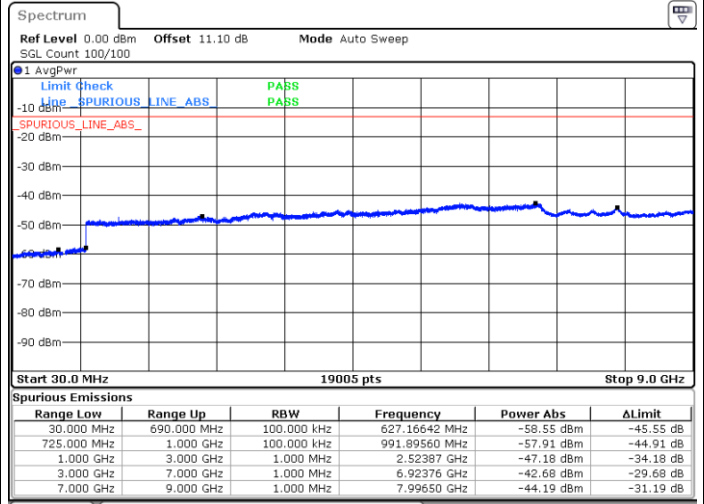
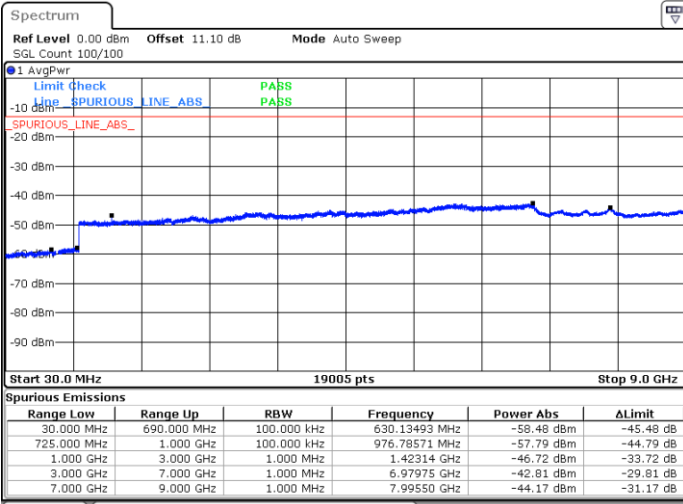




LTE Band 17 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



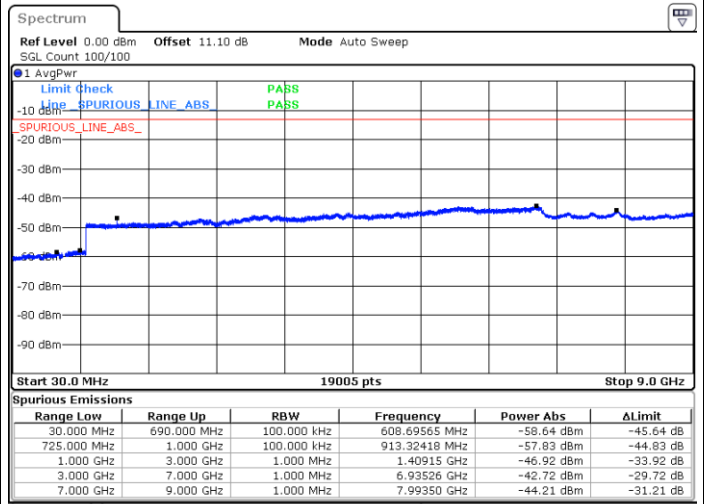
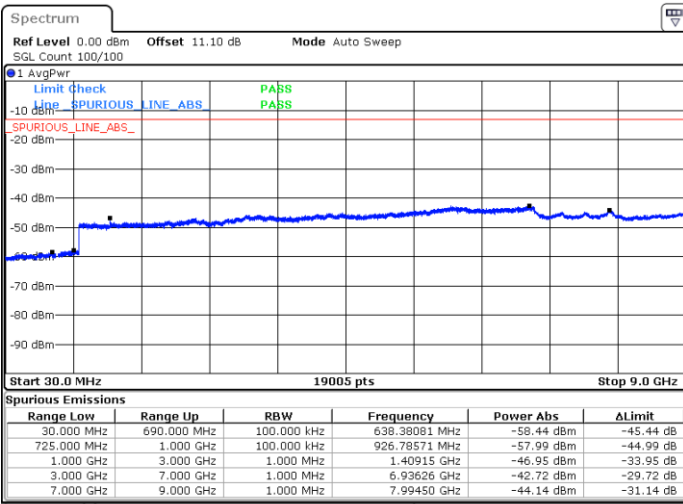
Date: 30.MAY.2020 22:57:12

Date: 30.MAY.2020 22:57:52

LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 30.MAY.2020 23:02:17

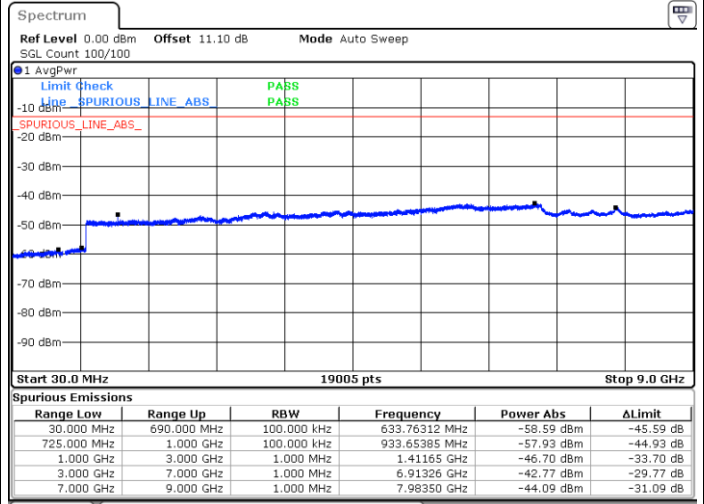
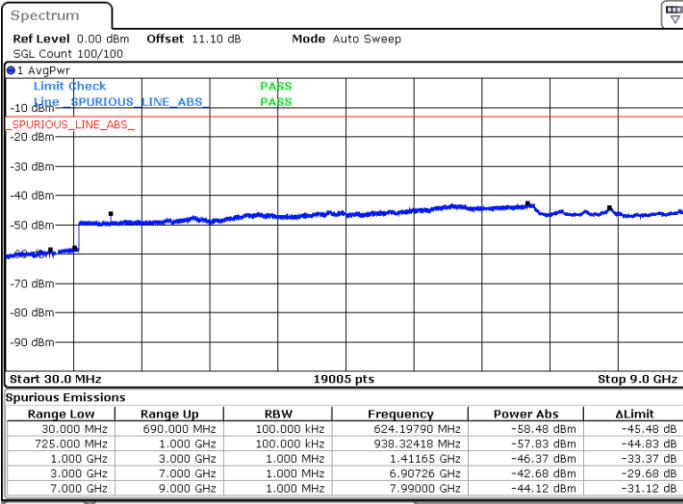
Date: 30.MAY.2020 23:02:57



LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

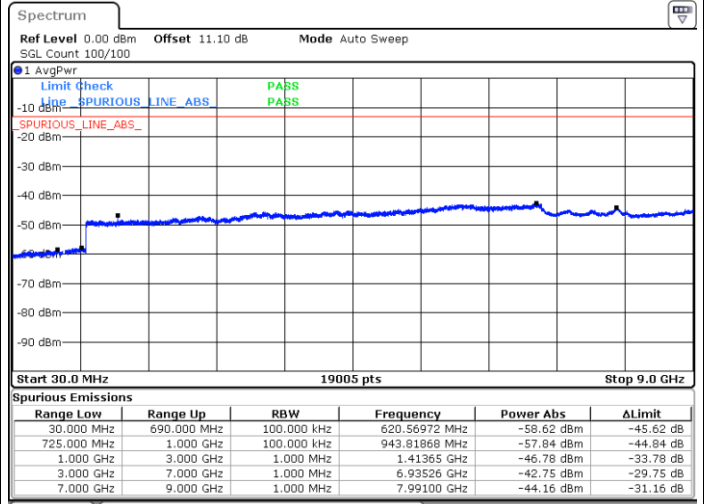
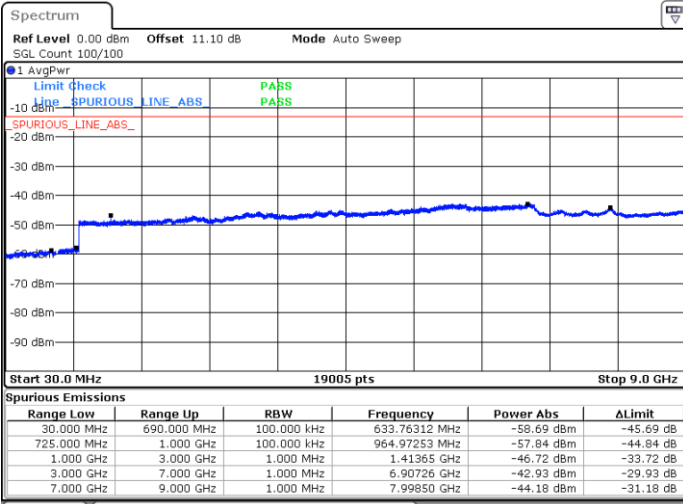


Date: 30.MAY.2020 23:04:22

Date: 30.MAY.2020 23:05:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.MAY.2020 23:09:10

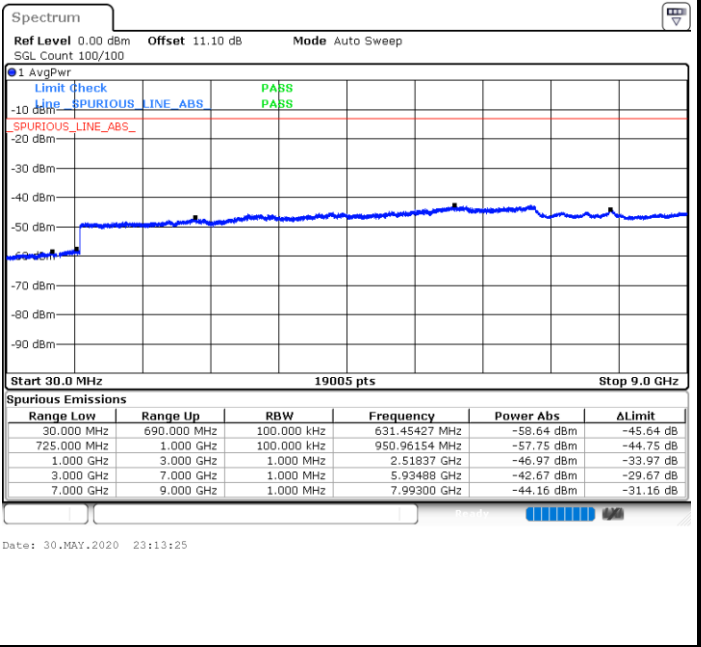
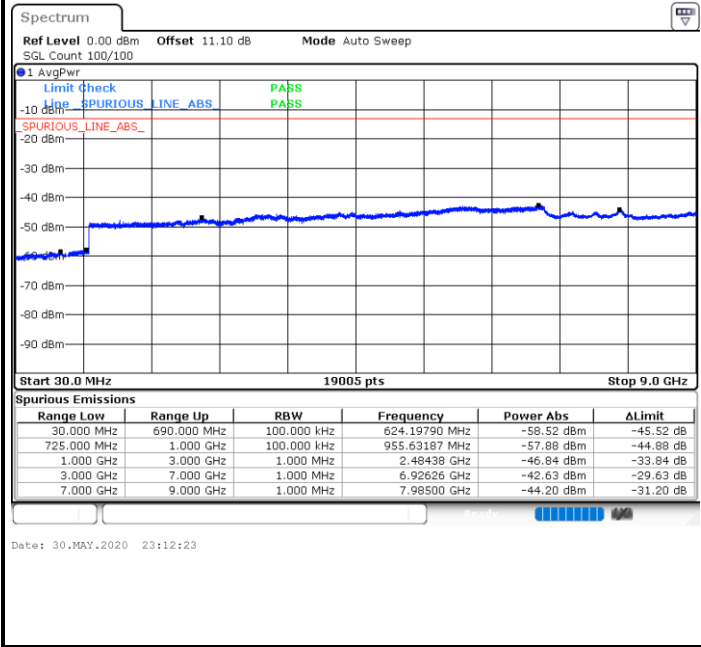
Date: 30.MAY.2020 23:09:50



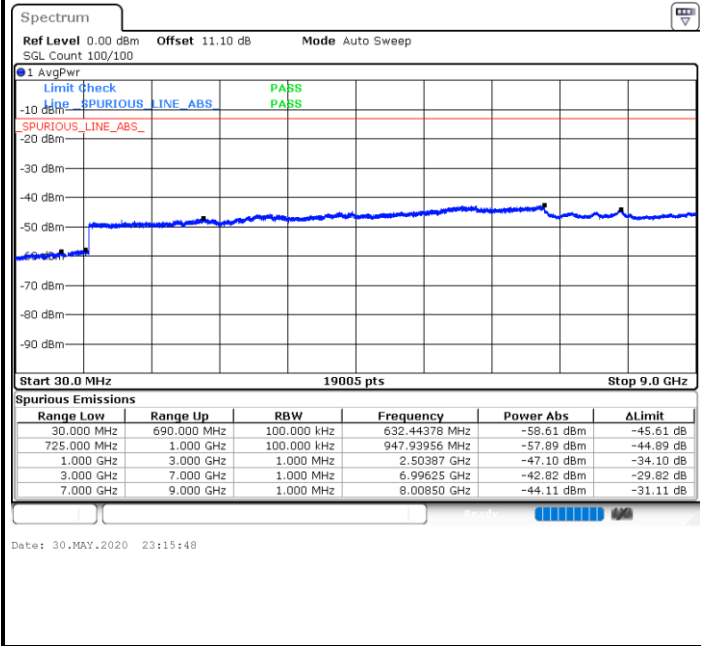
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM

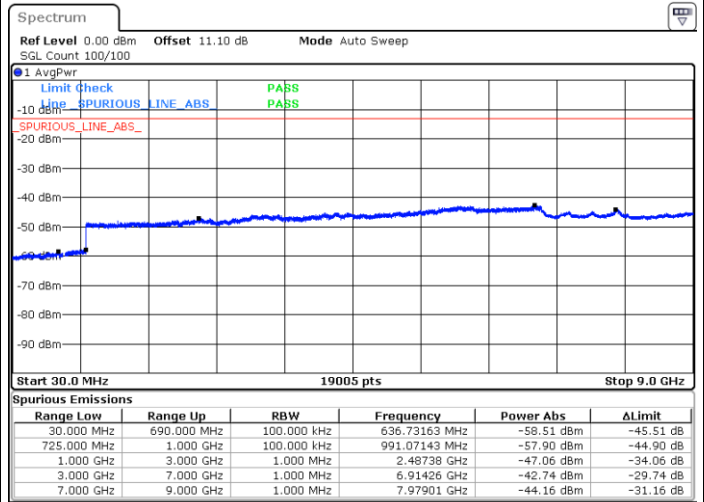
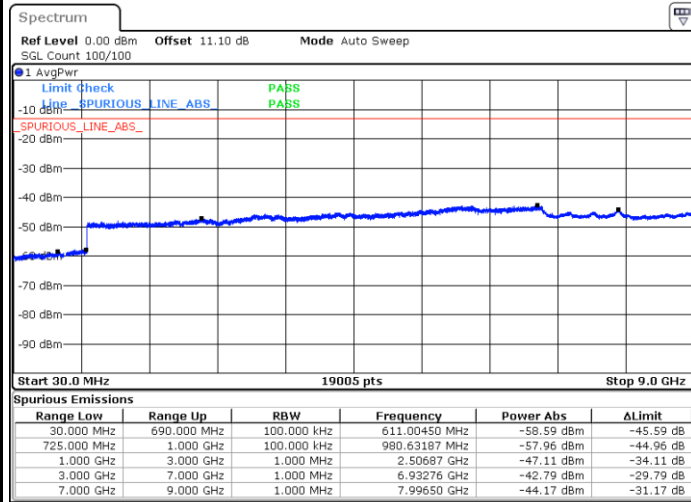




LTE Band 17 / 10MHz

Lowest Channel / 64QAM

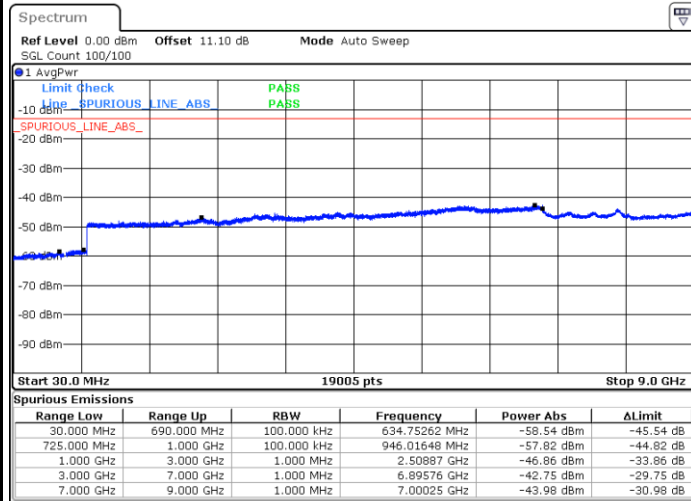
Middle Channel / 64QAM



Date: 30.MAY.2020 23:18:22

Date: 30.MAY.2020 23:19:24

Highest Channel / 64QAM



Date: 30.MAY.2020 23:21:47



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0148	
-10	Normal Voltage	0.0154	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0146	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	5.19	5.28	5.97	PASS
Middle CH	3.51	5.13	5.28	5.94	
Highest CH	3.51	5.13	5.54	6.03	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.20	6.58	-	-	PASS
Middle CH	7.10	6.41	-	-	
Highest CH	6.78	6.49	-	-	