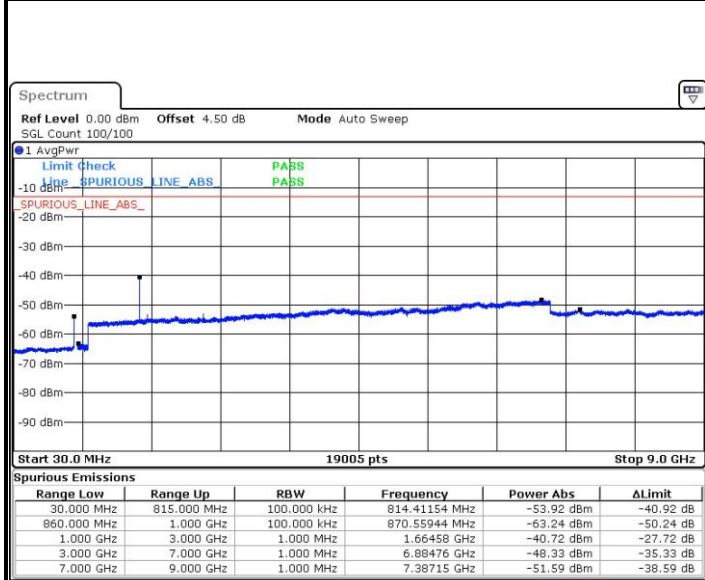




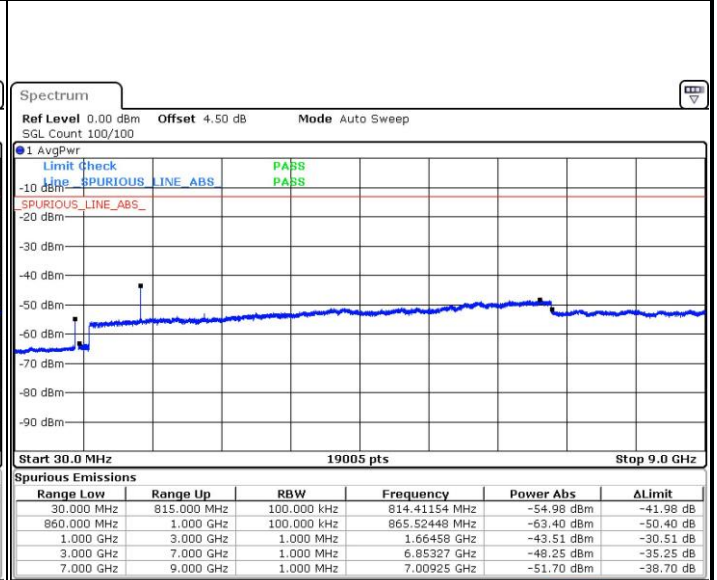
LTE Band 5 / 10MHz

Middle Channel / QPSK



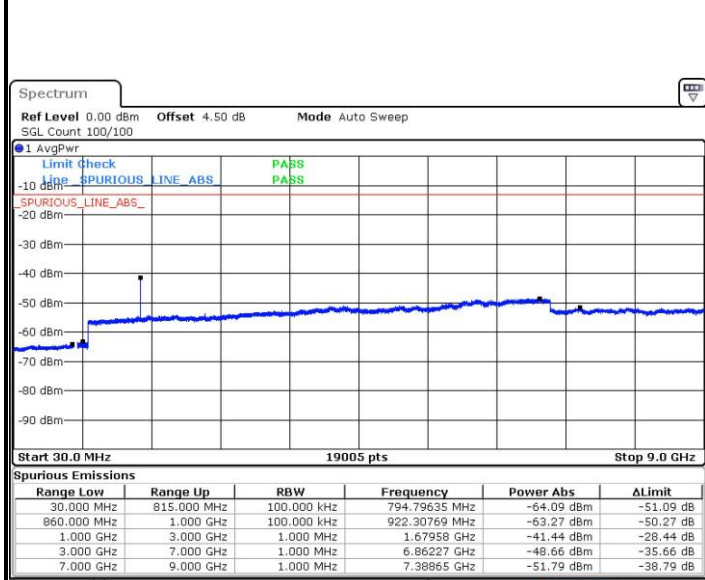
Date: 7.NOV.2018 10:08:45

Middle Channel / 16QAM



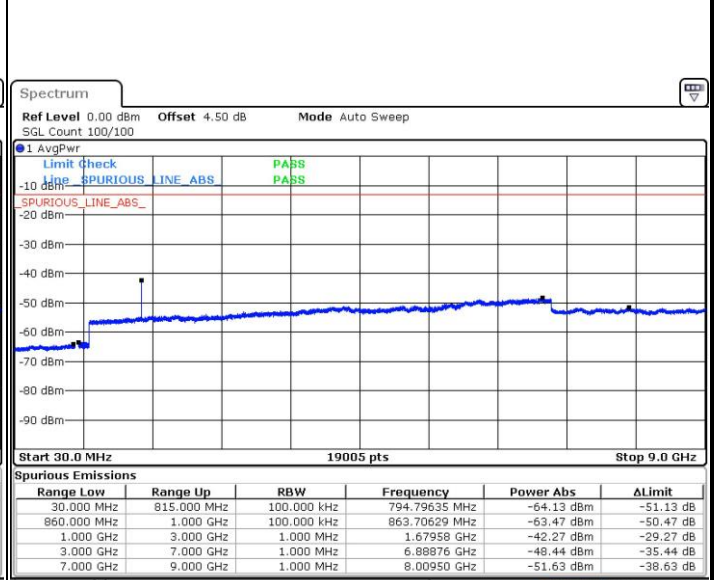
Date: 7.NOV.2018 10:07:57

Highest Channel / QPSK



Date: 7.NOV.2018 10:09:56

Highest Channel / 16QAM

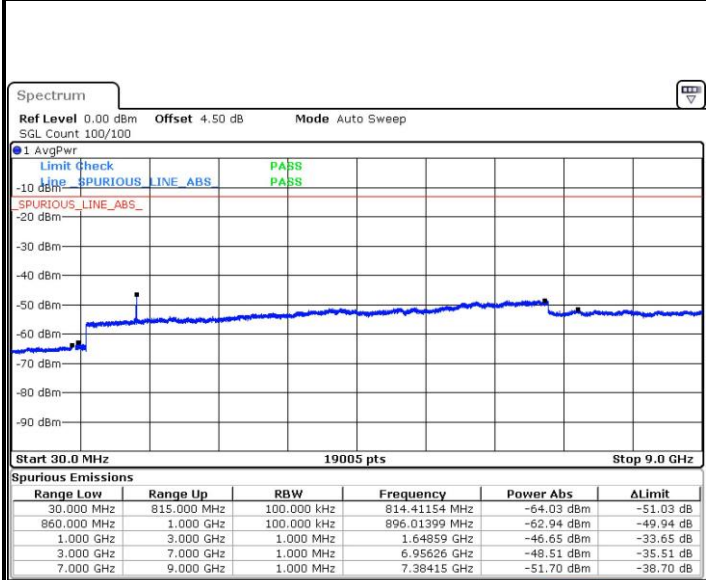


Date: 7.NOV.2018 10:10:31



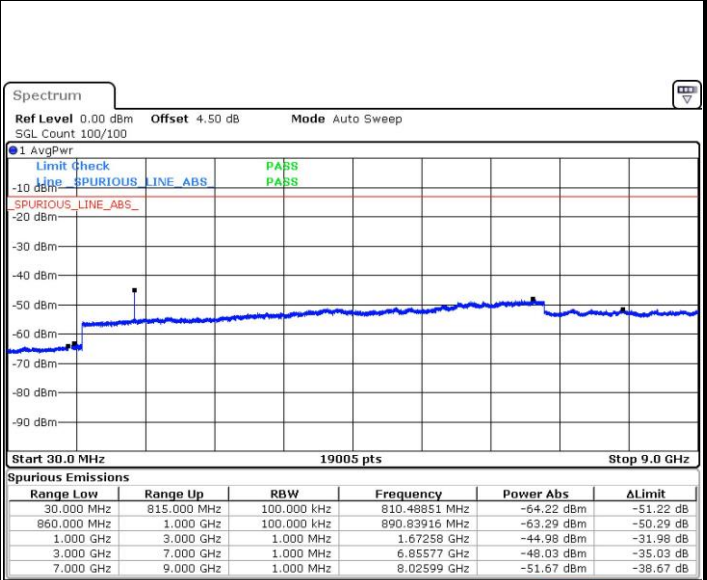
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



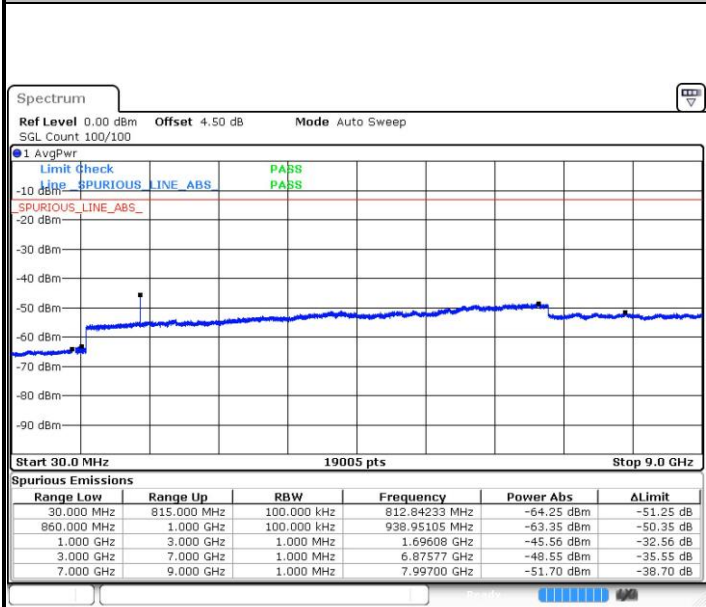
Date: 7.NOV.2018 09:54:00

Middle Channel / 64QAM



Date: 7.NOV.2018 09:54:41

Highest Channel / 64QAM

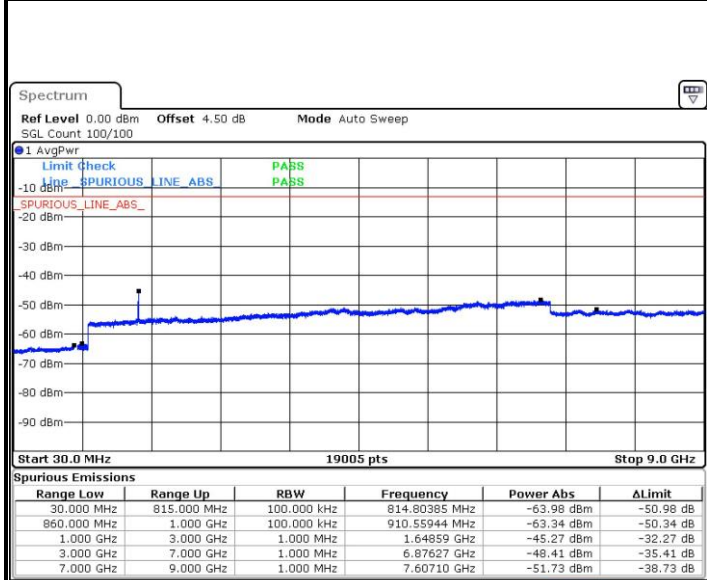


Date: 7.NOV.2018 09:56:50



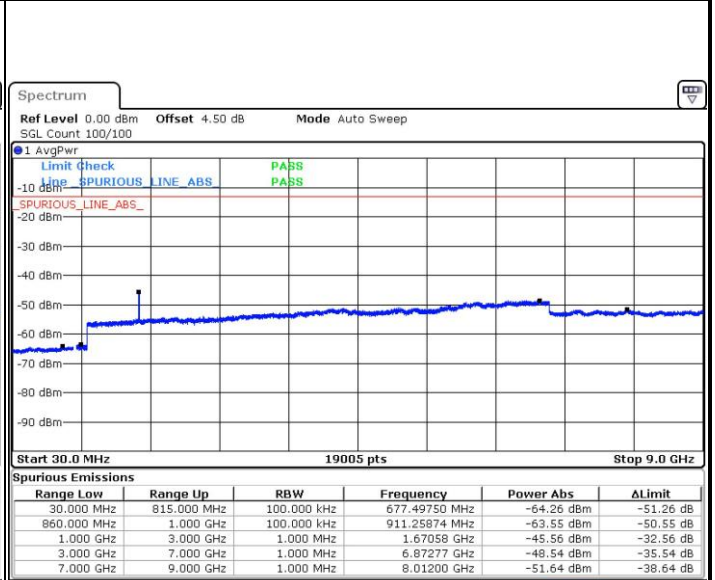
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



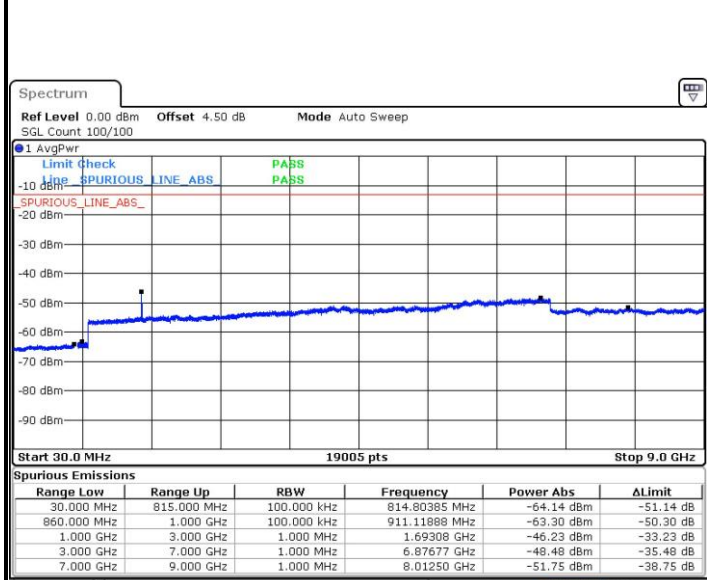
Date: 7.NOV.2018 09:57:17

Middle Channel / 64QAM

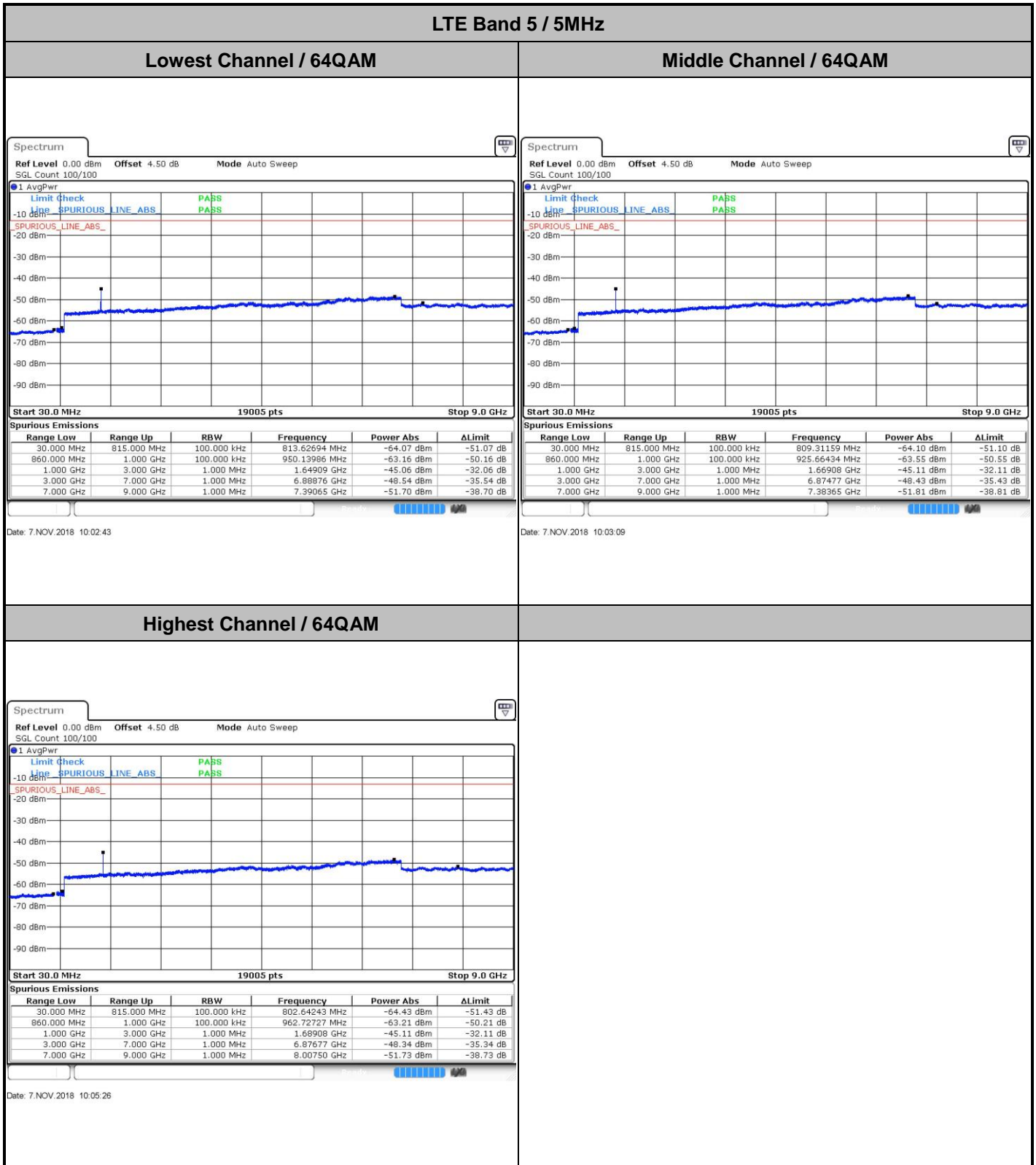


Date: 7.NOV.2018 09:59:39

Highest Channel / 64QAM

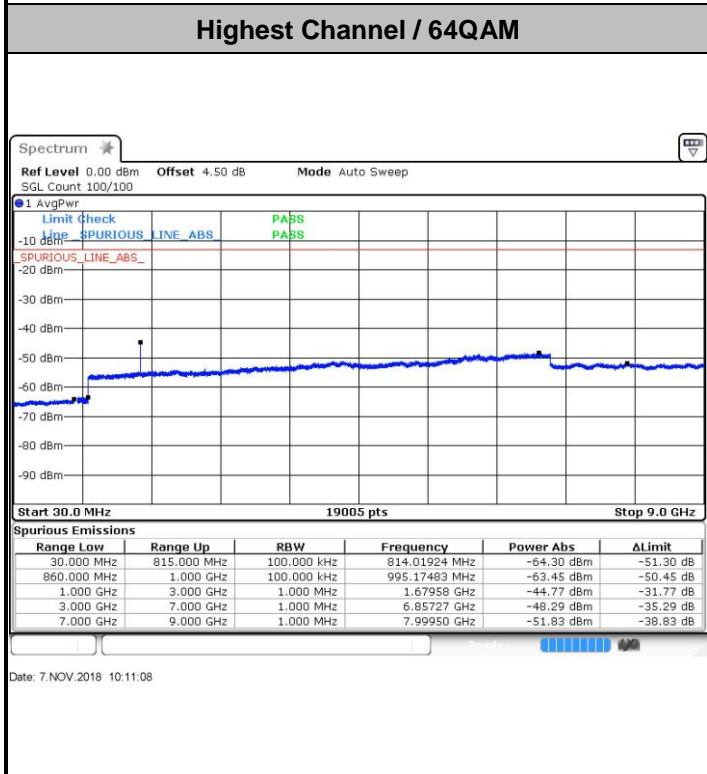
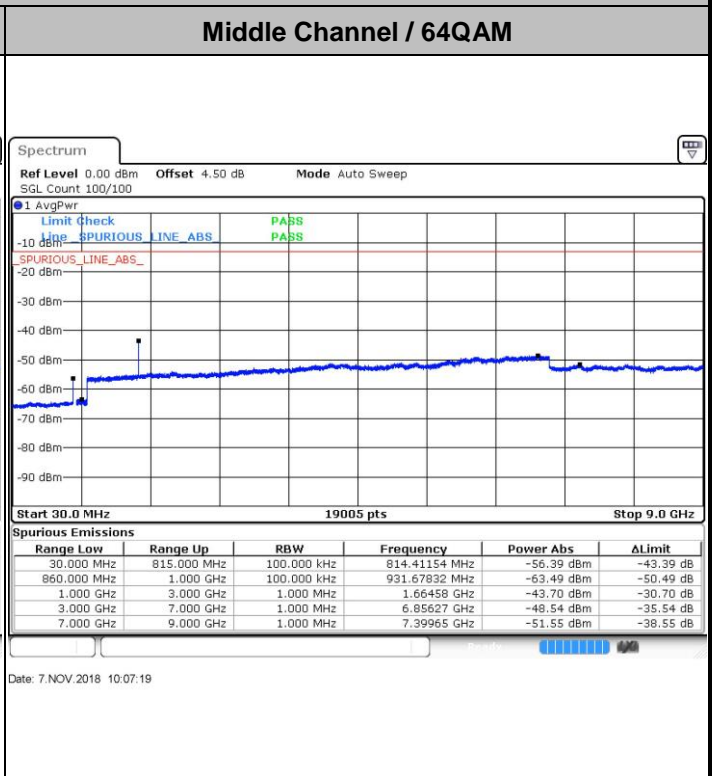
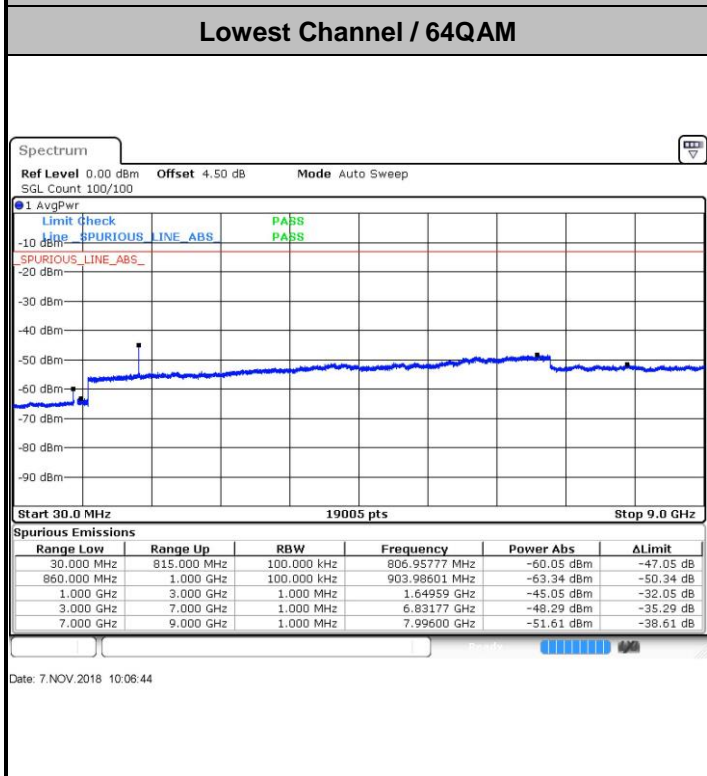


Date: 7.NOV.2018 10:00:14





LTE Band 5 / 10MHz





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	0.0013	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0054	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

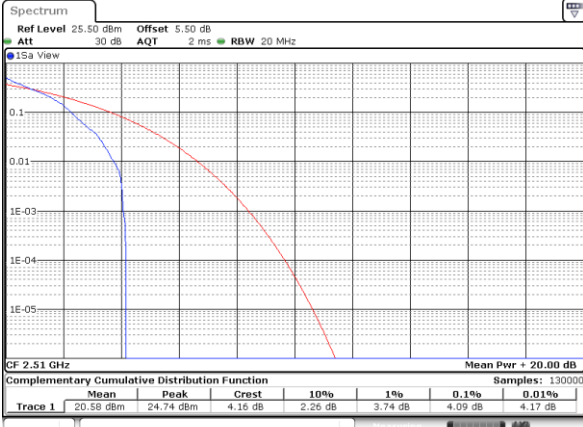
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.09	4.67	5.16	5.68	PASS
Middle CH	4.29	4.7	5.3	5.74	
Highest CH	4.49	4.75	5.54	5.71	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.97	6.12	PASS		
Middle CH	6.06	6.12			
Highest CH	6.49	6.29			



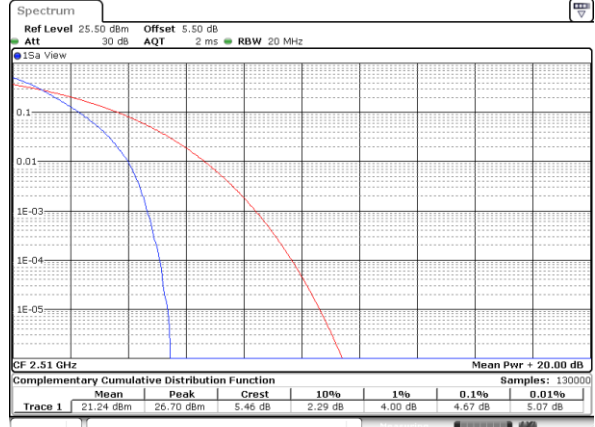
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



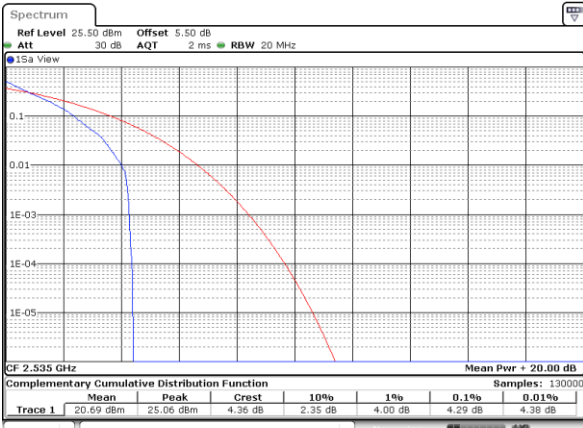
Date: 30 SEP 2018 10:38:15

Lowest Channel / Full RB



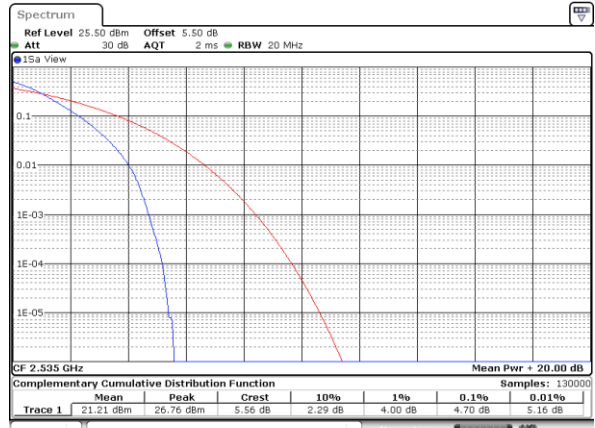
Date: 30 SEP 2018 10:38:25

Middle Channel / 1RB



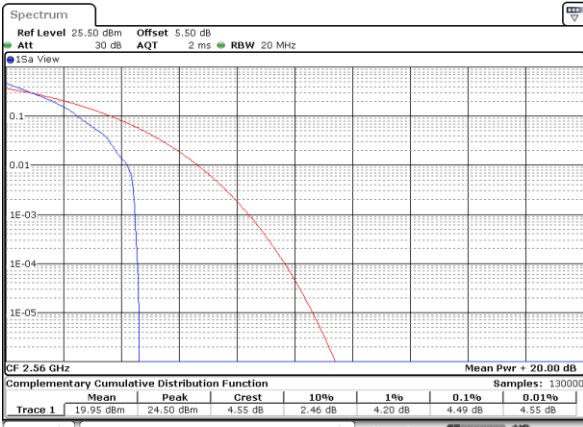
Date: 30 SEP 2018 10:39:04

Middle Channel / Full RB



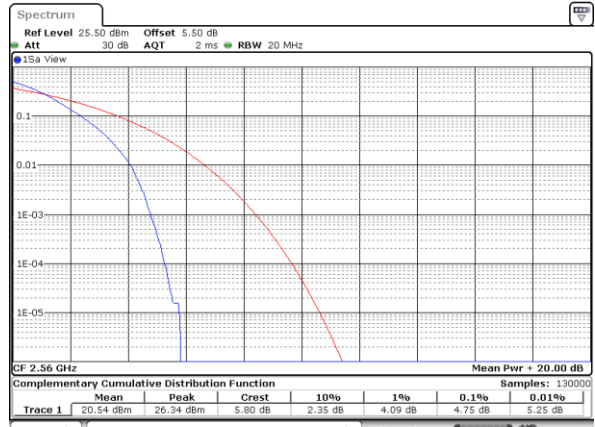
Date: 30 SEP 2018 10:38:53

Highest Channel / 1RB



Date: 30 SEP 2018 10:39:32

Highest Channel / Full RB

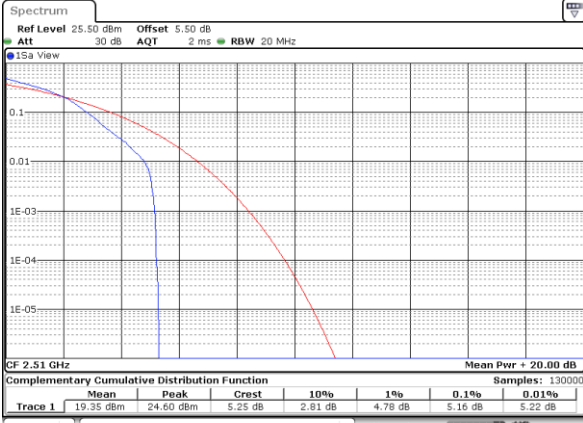


Date: 30 SEP 2018 10:39:41



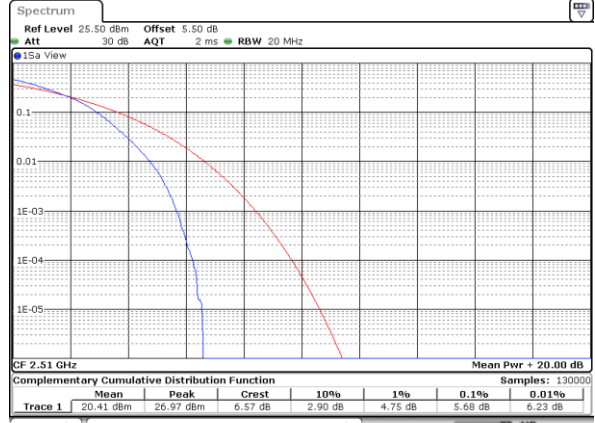
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



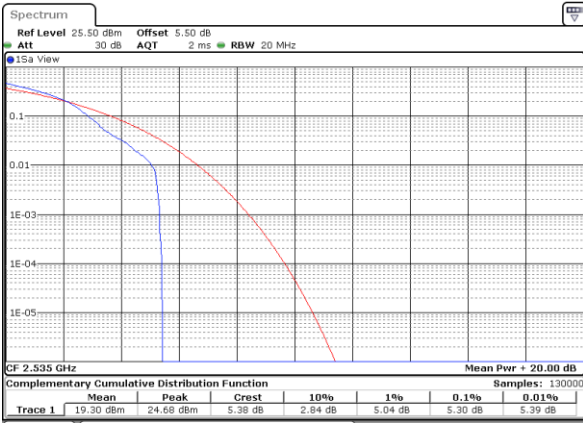
Date: 30 SEP 2018 10:38:06

Lowest Channel / Full RB



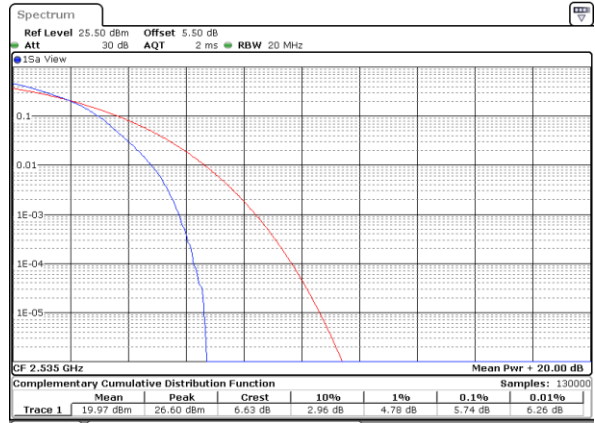
Date: 30 SEP 2018 10:38:34

Middle Channel / 1RB



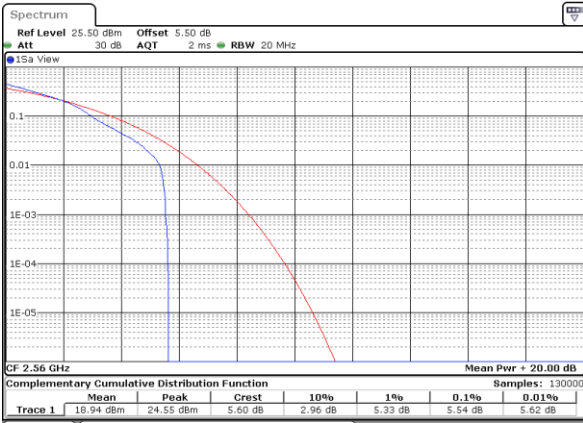
Date: 30 SEP 2018 10:39:13

Middle Channel / Full RB



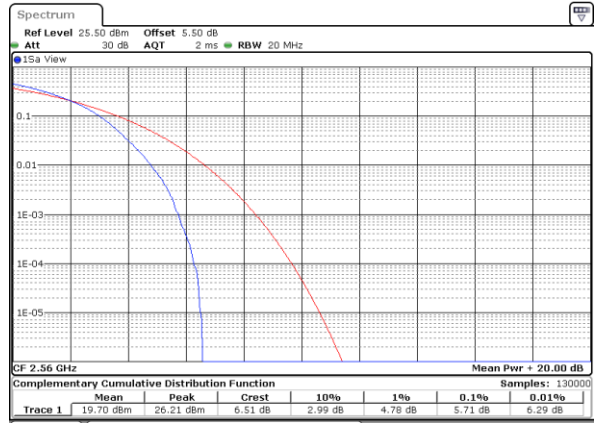
Date: 30 SEP 2018 10:38:44

Highest Channel / 1RB



Date: 30 SEP 2018 10:39:23

Highest Channel / Full RB

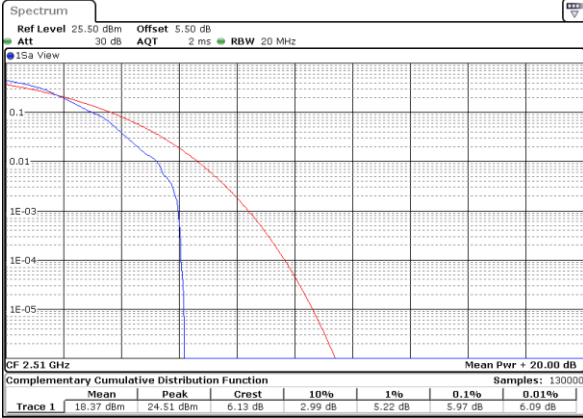


Date: 30 SEP 2018 10:39:50



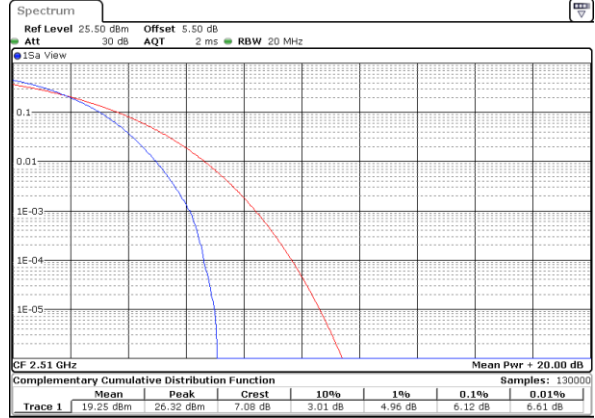
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



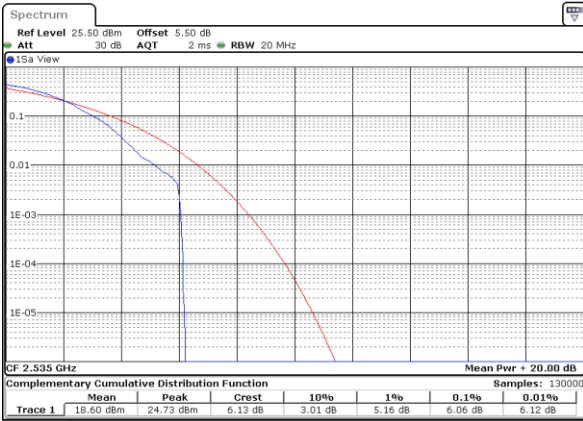
Date: 30 SEP 2018 11:04:49

Lowest Channel / Full RB



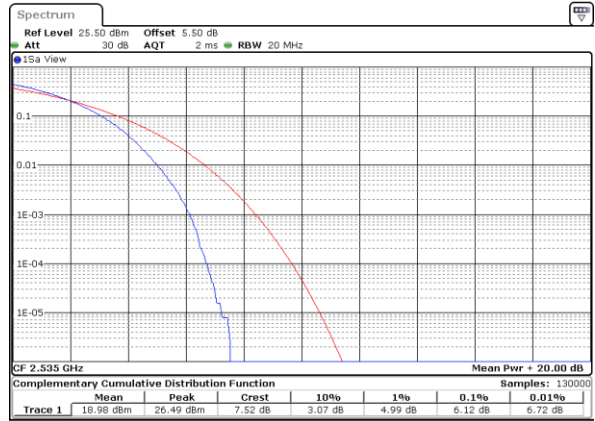
Date: 30 SEP 2018 11:04:58

Middle Channel / 1RB



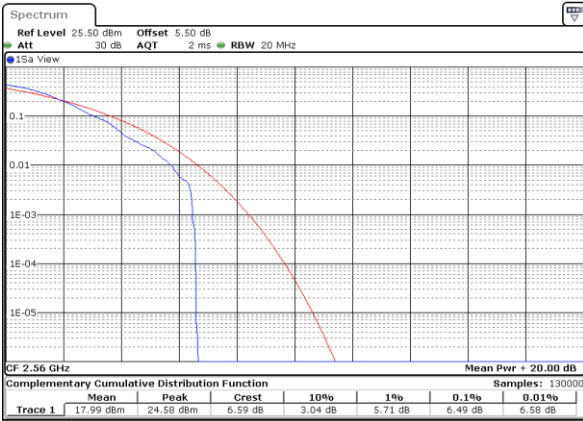
Date: 30 SEP 2018 11:05:15

Middle Channel / Full RB



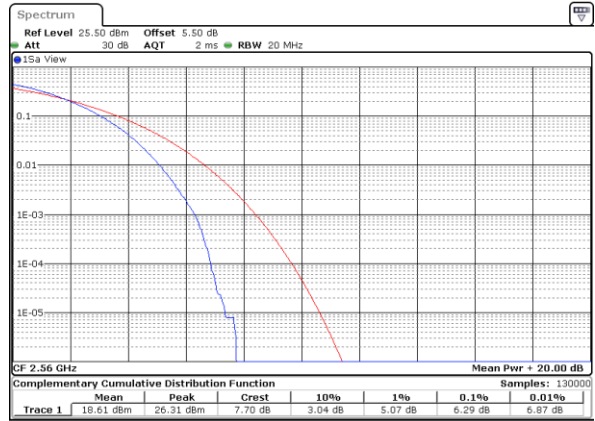
Date: 30 SEP 2018 11:05:07

Highest Channel / 1RB



Date: 30 SEP 2018 11:05:24

Highest Channel / Full RB



Date: 30 SEP 2018 11:05:37



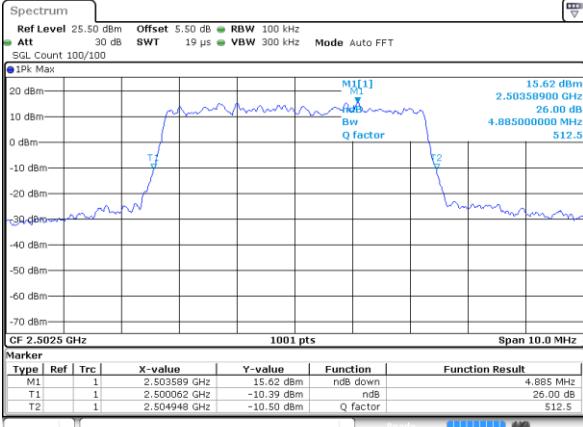
26dB Bandwidth

Mode												
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.885	4.905	9.89	9.85	14.505	14.236	20.14	20.38	4.955	9.87	14.386	20.22
Middle CH	4.935	4.885	9.85	9.83	14.446	14.446	20.18	20.14	4.965	9.81	14.595	20.18
Highest CH	4.945	4.835	9.87	9.71	14.296	14.805	20.06	20.22	4.965	9.81	14.206	20.06



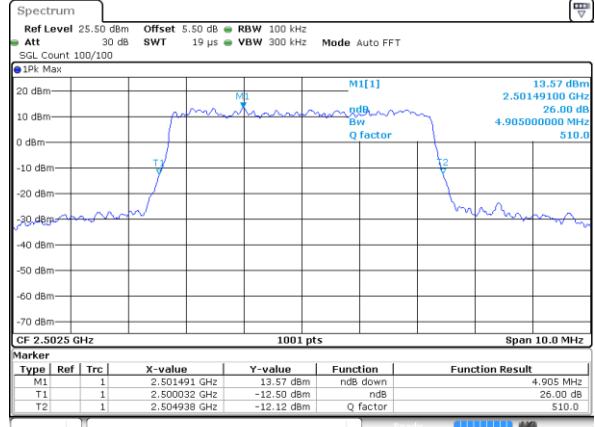
LTE Band 7

Lowest Channel / 5MHz / QPSK



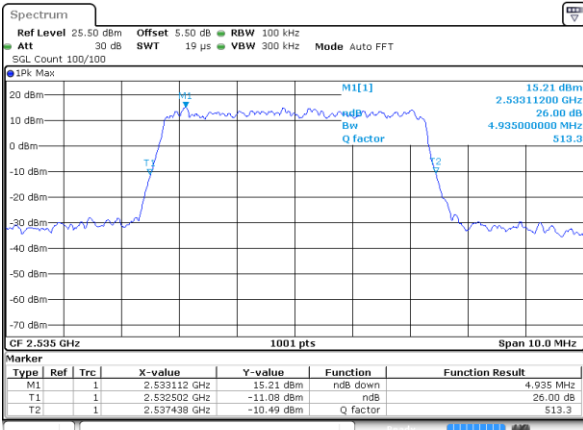
Date: 30 SEP 2018 09:50:08

Lowest Channel / 5MHz / 16QAM



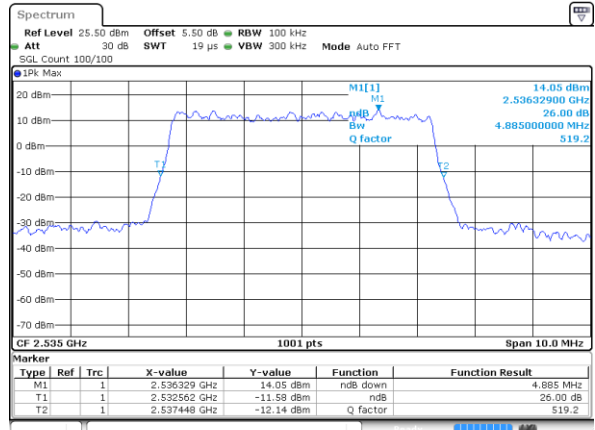
Date: 30 SEP 2018 09:50:28

Middle Channel / 5MHz / QPSK



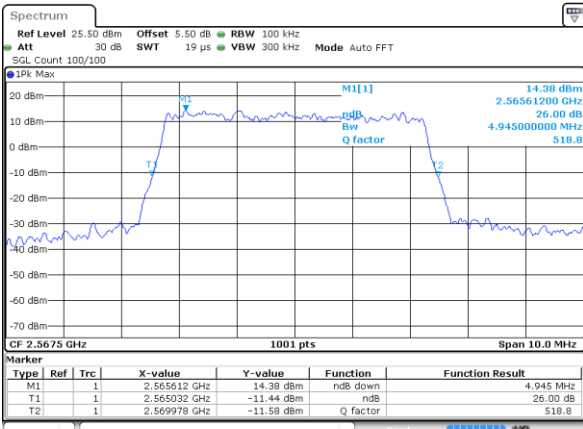
Date: 30 SEP 2018 09:51:07

Middle Channel / 5MHz / 16QAM



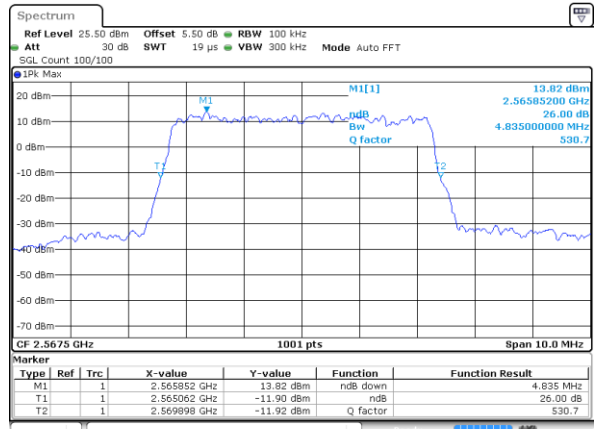
Date: 30 SEP 2018 09:50:47

Highest Channel / 5MHz / QPSK



Date: 30 SEP 2018 09:51:27

Highest Channel / 5MHz / 16QAM

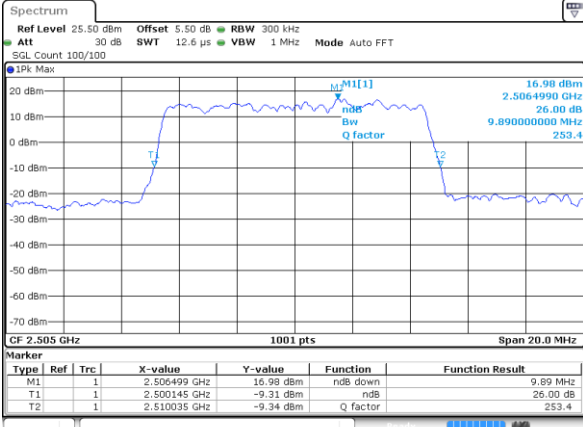


Date: 30 SEP 2018 09:51:47



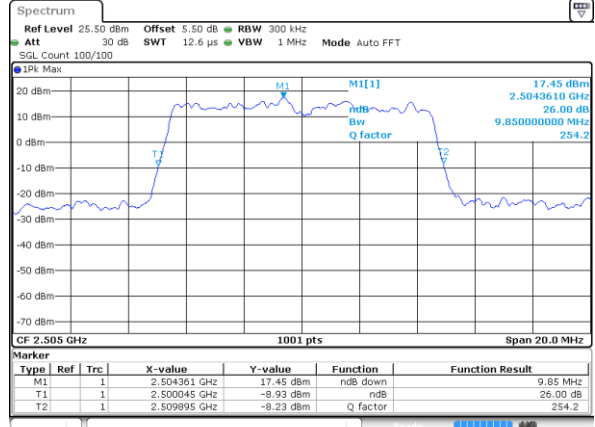
LTE Band 7

Lowest Channel / 10MHz / QPSK



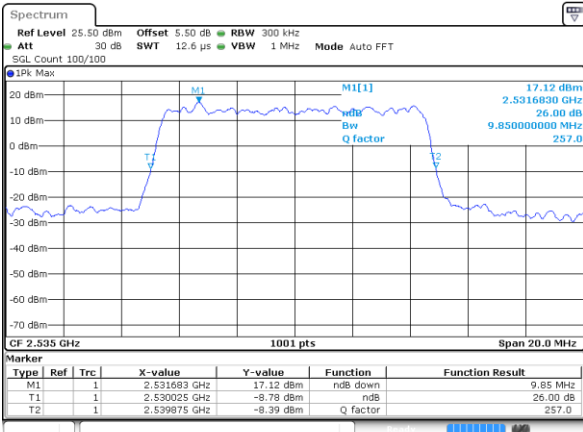
Date: 30 SEP 2018 10:02:02

Lowest Channel / 10MHz / 16QAM



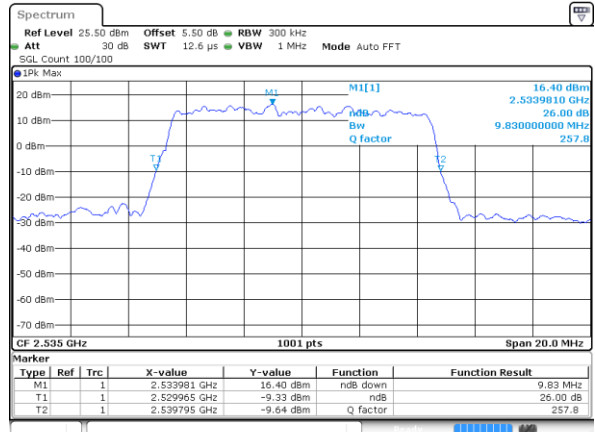
Date: 30 SEP 2018 10:02:22

Middle Channel / 10MHz / QPSK



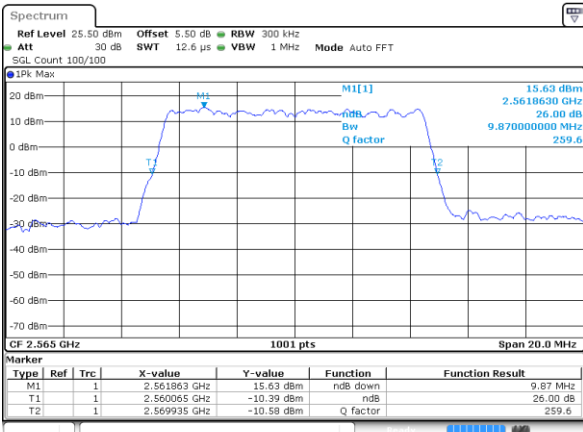
Date: 30 SEP 2018 10:03:02

Middle Channel / 10MHz / 16QAM



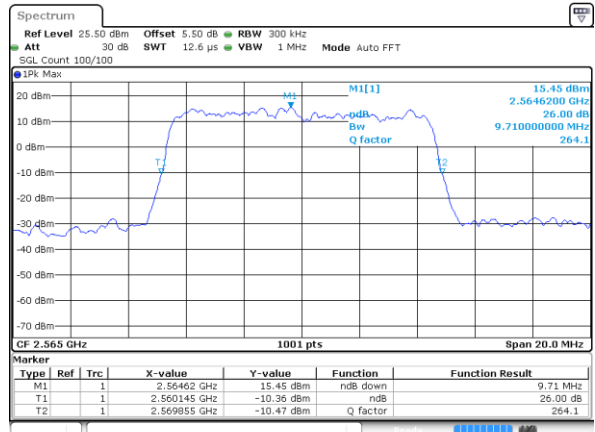
Date: 30 SEP 2018 10:02:42

Highest Channel / 10MHz / QPSK



Date: 30 SEP 2018 10:03:22

Highest Channel / 10MHz / 16QAM

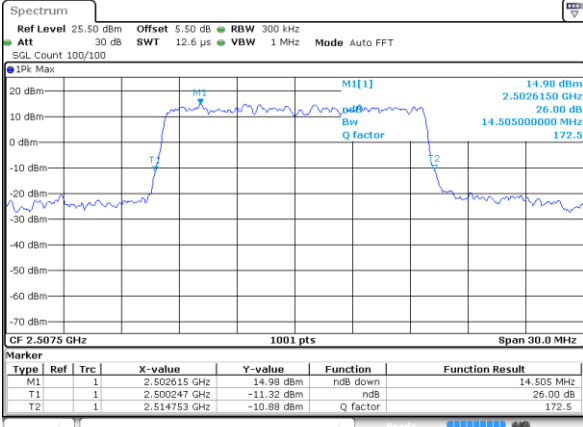


Date: 30 SEP 2018 10:03:41



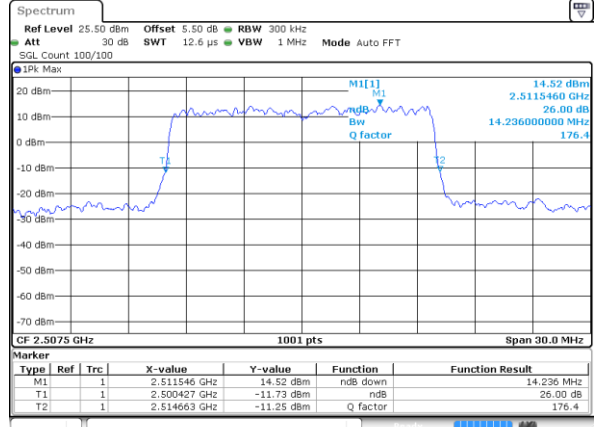
LTE Band 7

Lowest Channel / 15MHz / QPSK



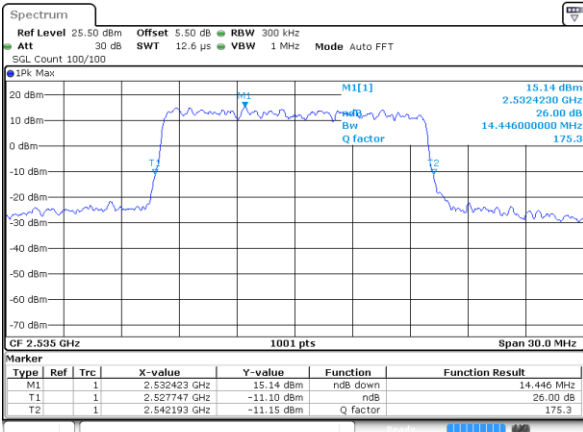
Date: 30 SEP 2018 10:14:16

Lowest Channel / 15MHz / 16QAM



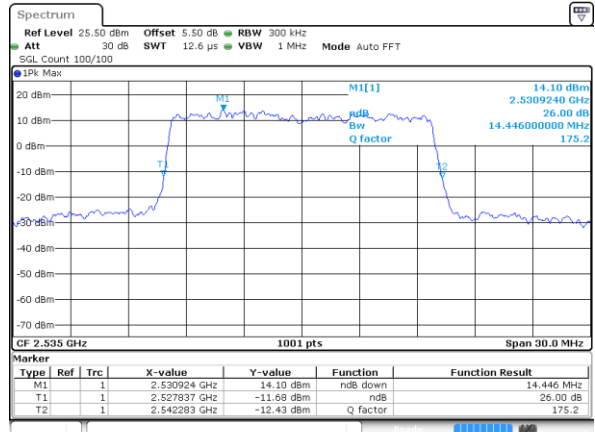
Date: 30 SEP 2018 10:13:56

Middle Channel / 15MHz / QPSK



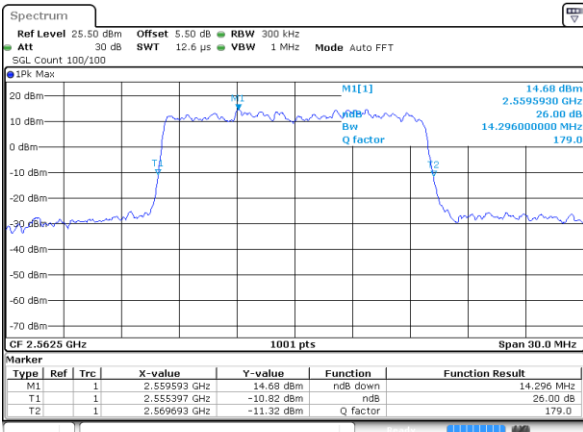
Date: 30 SEP 2018 10:14:35

Middle Channel / 15MHz / 16QAM



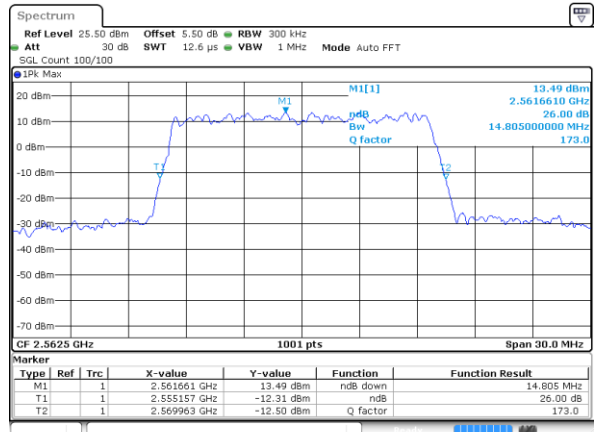
Date: 30 SEP 2018 10:14:55

Highest Channel / 15MHz / QPSK



Date: 30 SEP 2018 10:15:35

Highest Channel / 15MHz / 16QAM

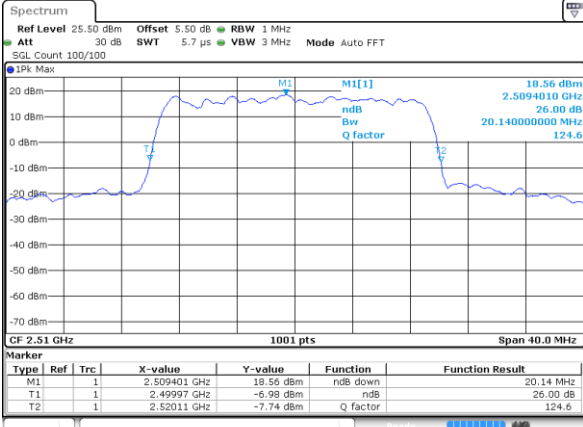


Date: 30 SEP 2018 10:15:15



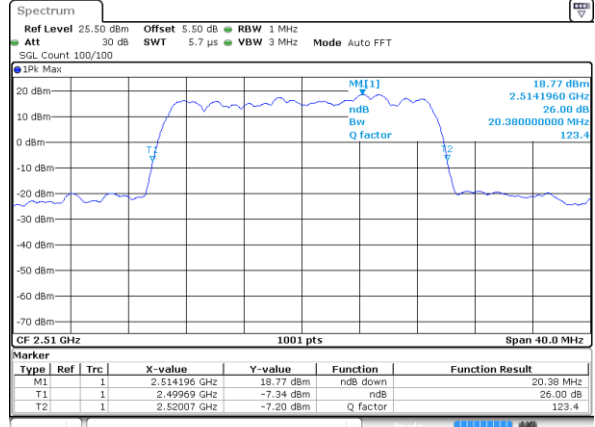
LTE Band 7

Lowest Channel / 20MHz / QPSK



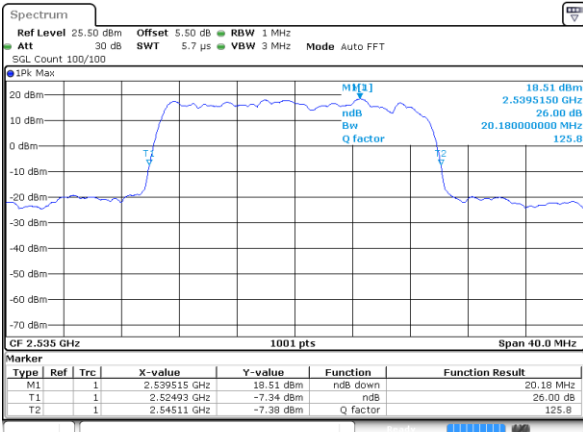
Date: 30 SEP 2018 10:26:09

Lowest Channel / 20MHz / 16QAM



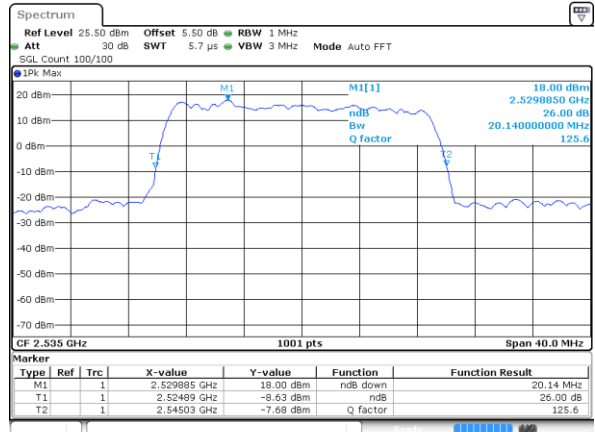
Date: 30 SEP 2018 10:25:49

Middle Channel / 20MHz / QPSK



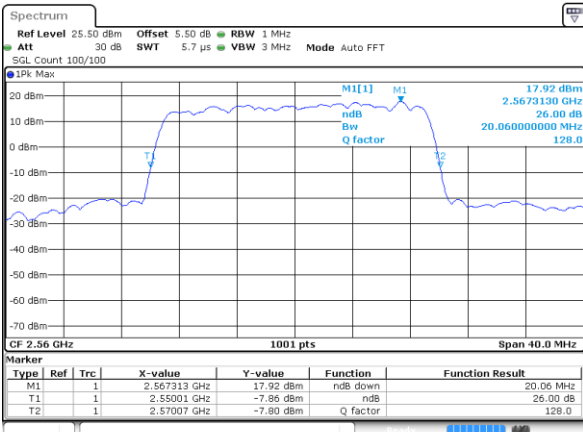
Date: 30 SEP 2018 10:26:29

Middle Channel / 20MHz / 16QAM



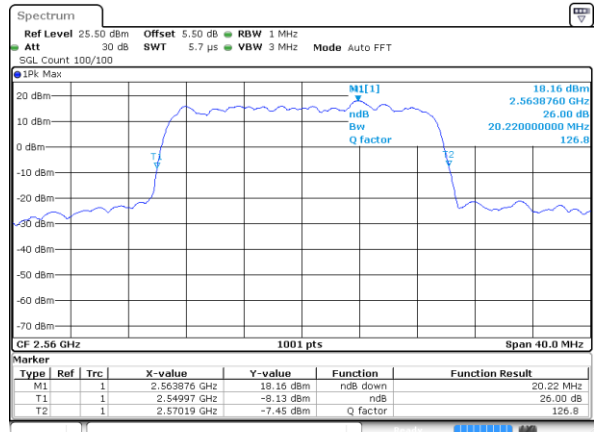
Date: 30 SEP 2018 10:26:49

Highest Channel / 20MHz / QPSK



Date: 30 SEP 2018 10:27:28

Highest Channel / 20MHz / 16QAM

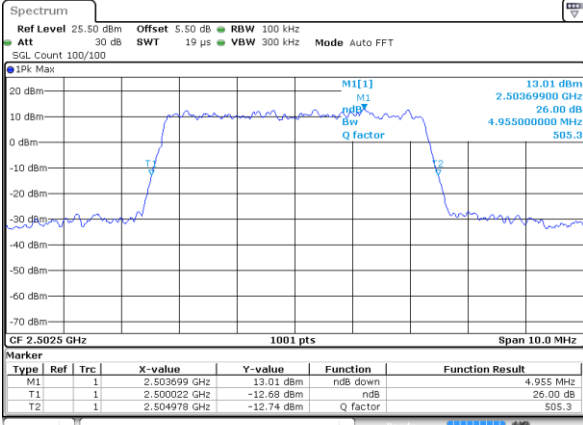


Date: 30 SEP 2018 10:27:09



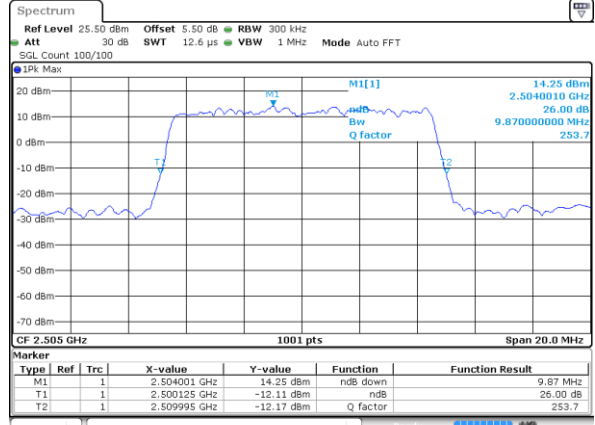
LTE Band 7

Lowest Channel / 5MHz / 64QAM



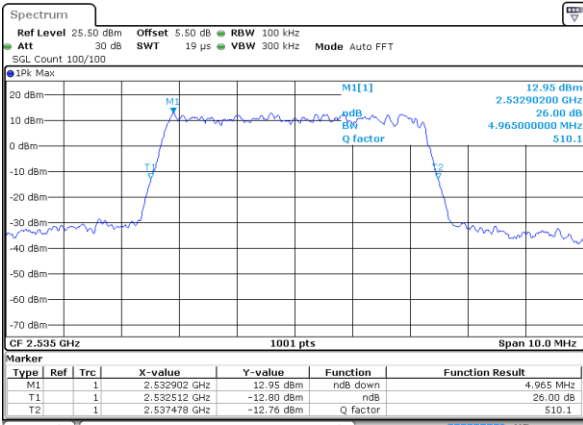
Date: 30 SEP 2018 10:40:43

Lowest Channel / 10MHz / 64QAM



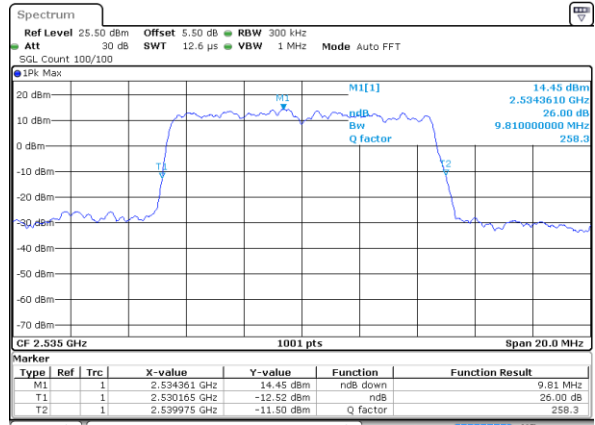
Date: 30 SEP 2018 10:46:39

Middle Channel / 5MHz / 64QAM



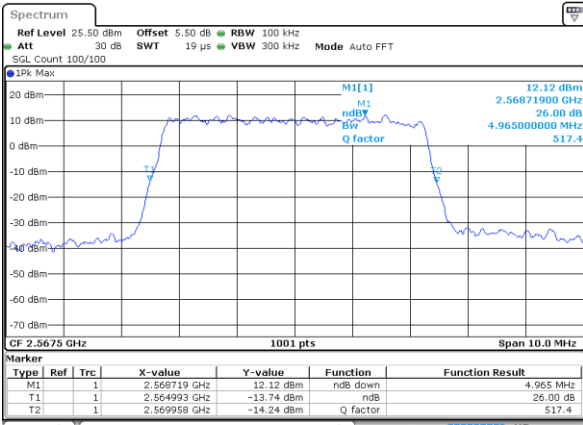
Date: 30 SEP 2018 10:40:52

Middle Channel / 10MHz / 64QAM



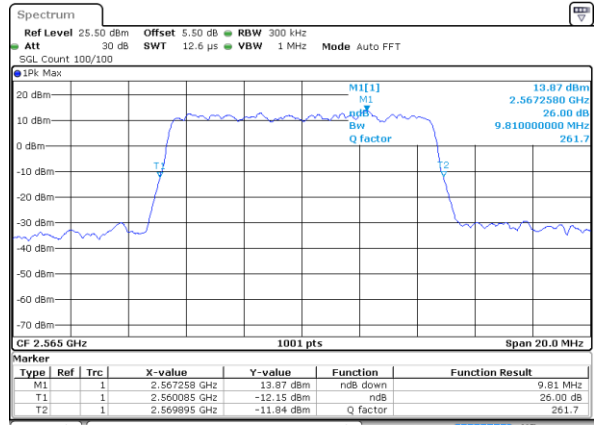
Date: 30 SEP 2018 10:46:49

Highest Channel / 5MHz / 64QAM



Date: 30 SEP 2018 10:41:02

Highest Channel / 10MHz / 64QAM

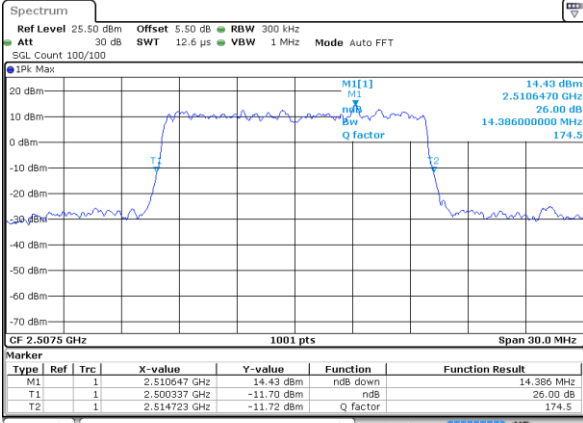


Date: 30 SEP 2018 10:46:59



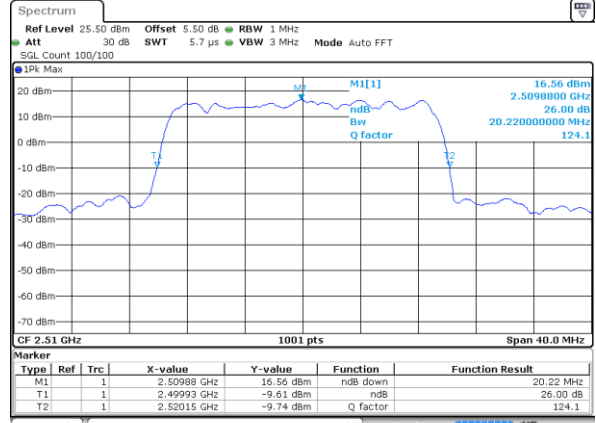
LTE Band 7

Lowest Channel / 15MHz / 64QAM



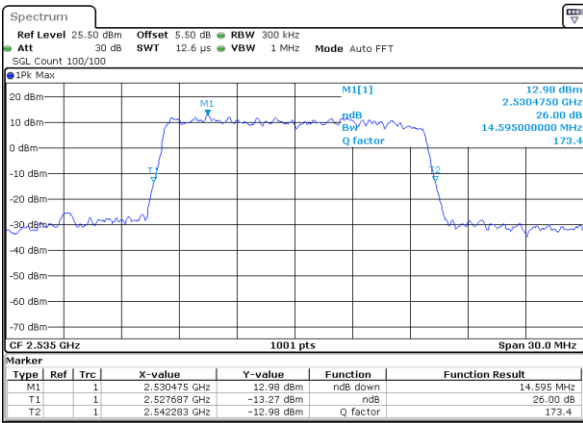
Date: 30 SEP 2018 10:52:36

Lowest Channel / 20MHz / 64QAM



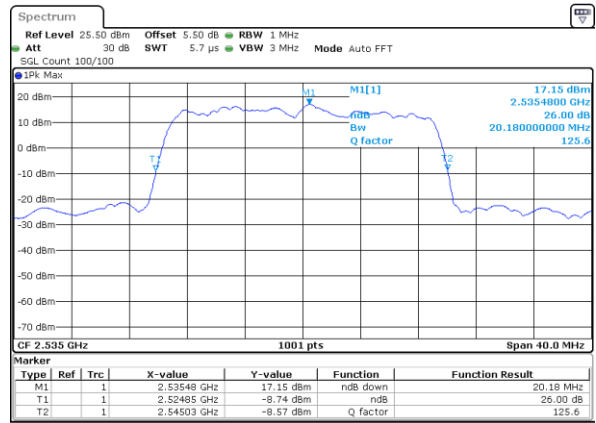
Date: 30 SEP 2018 10:58:32

Middle Channel / 15MHz / 64QAM



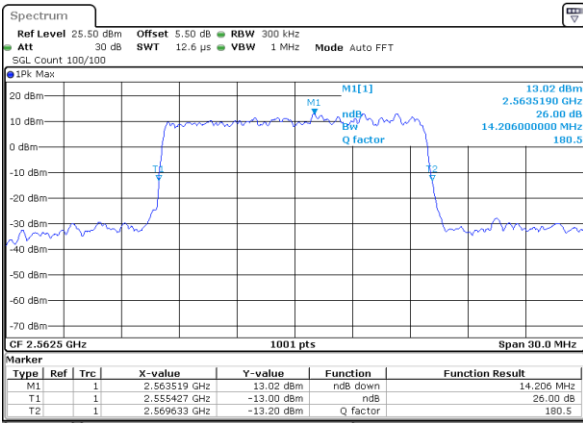
Date: 30 SEP 2018 10:52:46

Middle Channel / 20MHz / 64QAM



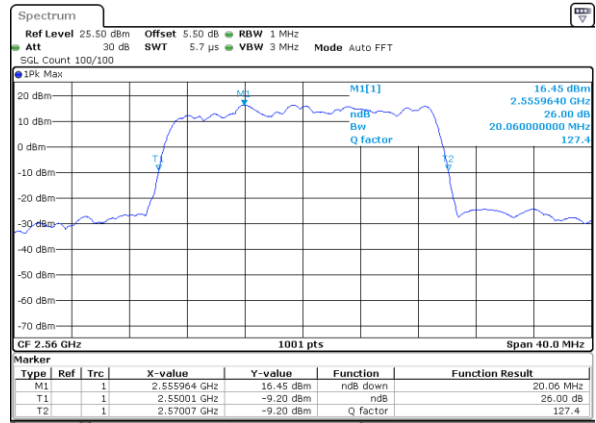
Date: 30 SEP 2018 10:58:42

Highest Channel / 15MHz / 64QAM



Date: 30 SEP 2018 10:52:56

Highest Channel / 20MHz / 64QAM



Date: 30 SEP 2018 10:58:52



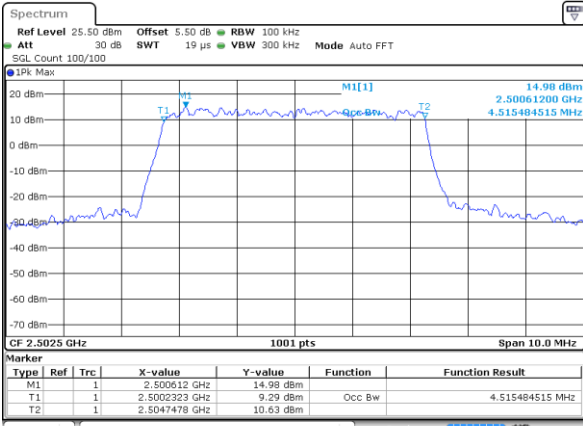
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.52	4.5	8.97	8.99	13.46	13.46	18.46	18.42	4.47	9.01	13.43	18.26
Middle CH	4.5	4.49	8.99	9.03	13.46	13.46	18.26	18.42	4.48	9.07	13.46	18.30
Highest CH	4.5	4.48	8.99	9.01	13.37	13.4	18.34	18.26	4.51	8.97	13.46	18.18



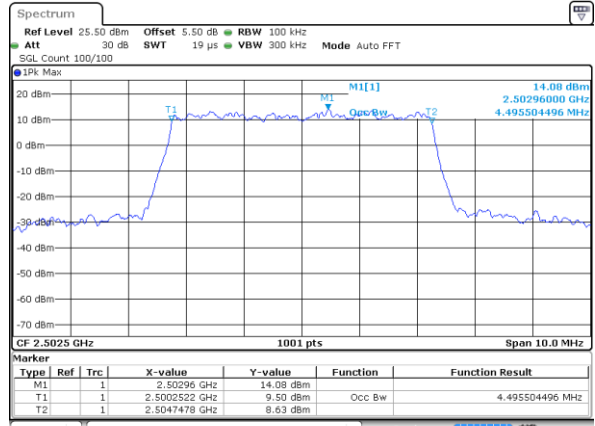
LTE Band 7

Lowest Channel / 5MHz / QPSK



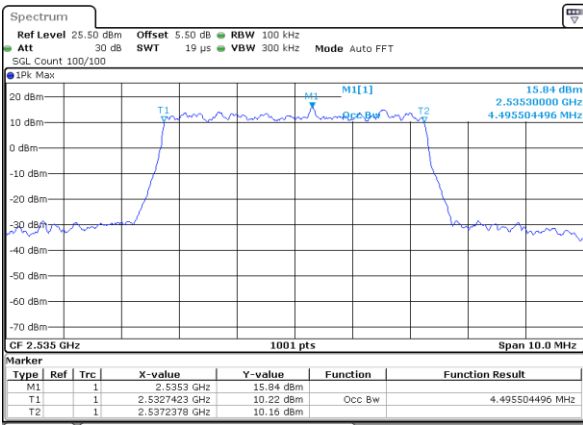
Date: 30 SEP 2018 09:49:58

Lowest Channel / 5MHz / 16QAM



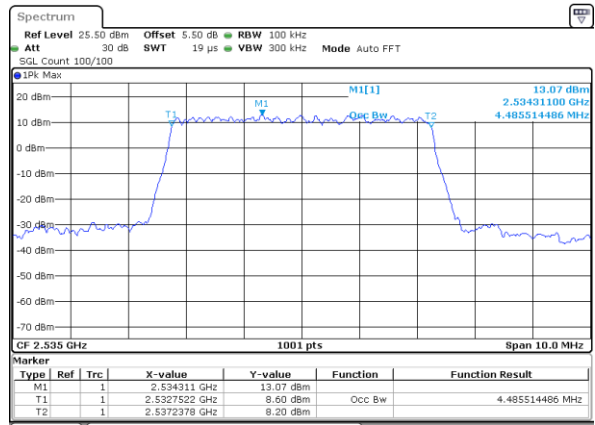
Date: 30 SEP 2018 09:50:18

Middle Channel / 5MHz / QPSK



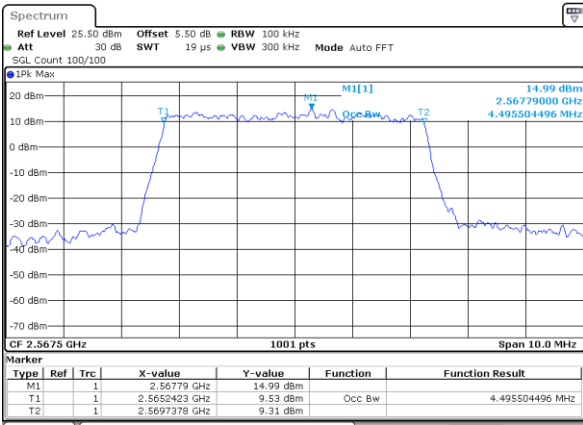
Date: 30 SEP 2018 09:50:57

Middle Channel / 5MHz / 16QAM



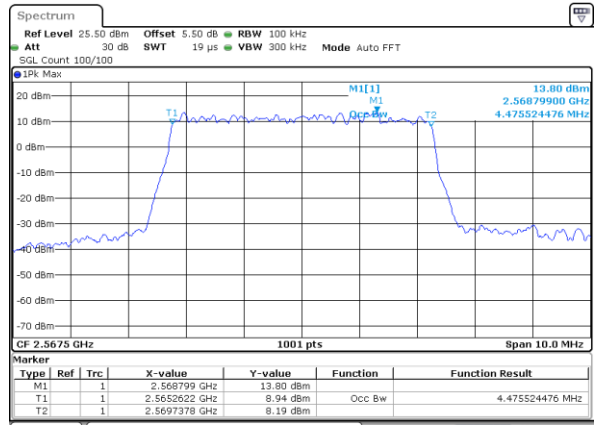
Date: 30 SEP 2018 09:50:37

Highest Channel / 5MHz / QPSK



Date: 30 SEP 2018 09:51:17

Highest Channel / 5MHz / 16QAM

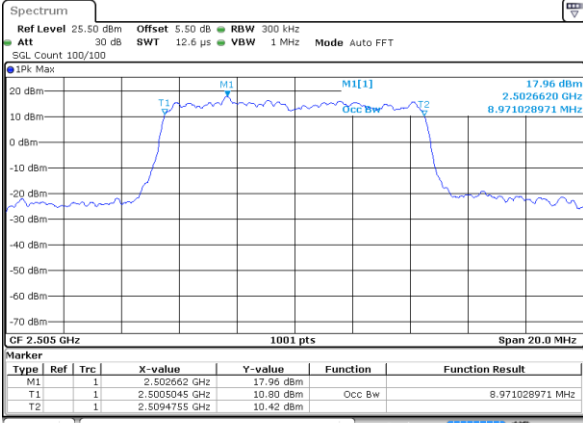


Date: 30 SEP 2018 09:51:37



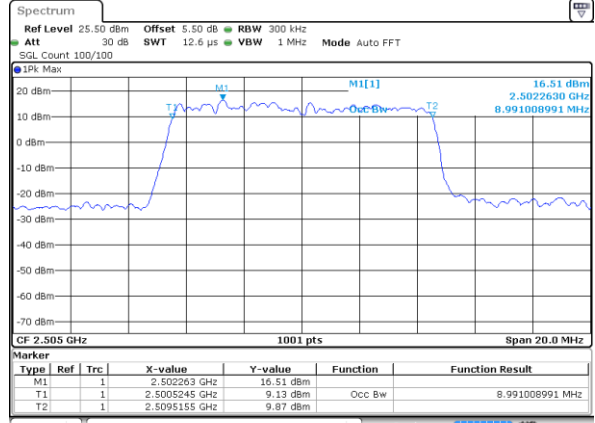
LTE Band 7

Lowest Channel / 10MHz / QPSK



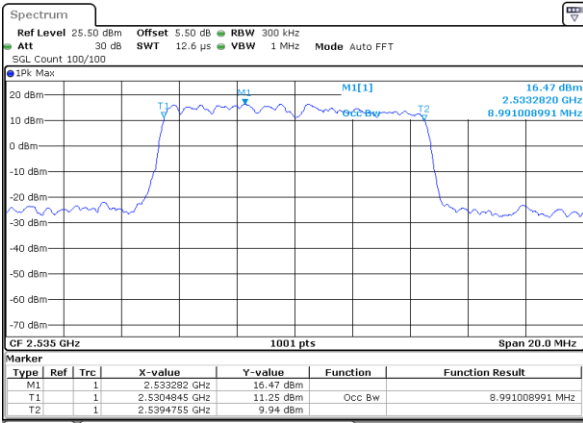
Date: 30 SEP 2018 10:01:52

Lowest Channel / 10MHz / 16QAM



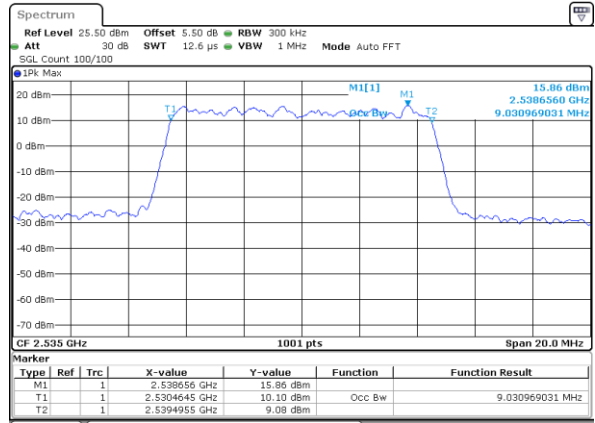
Date: 30 SEP 2018 10:02:12

Middle Channel / 10MHz / QPSK



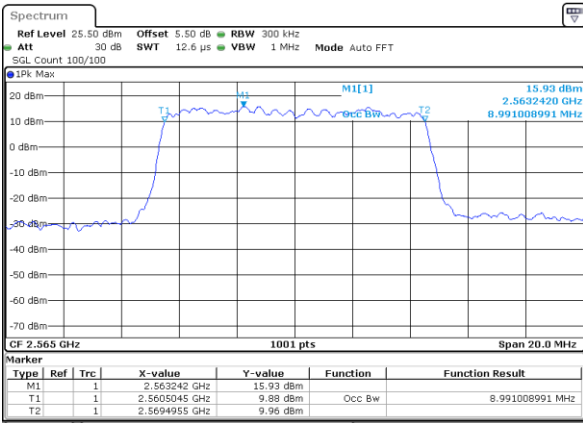
Date: 30 SEP 2018 10:02:52

Middle Channel / 10MHz / 16QAM



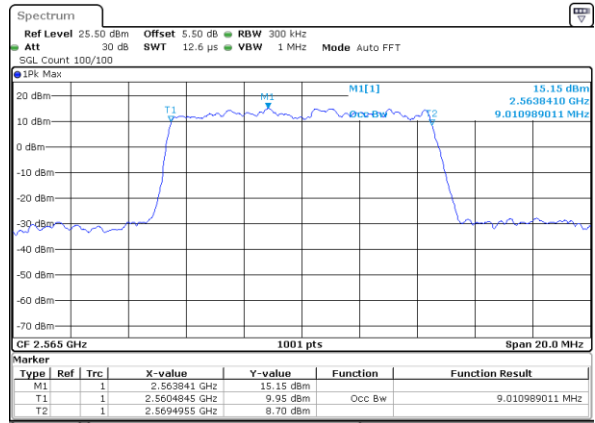
Date: 30 SEP 2018 10:02:32

Highest Channel / 10MHz / QPSK



Date: 30 SEP 2018 10:03:12

Highest Channel / 10MHz / 16QAM

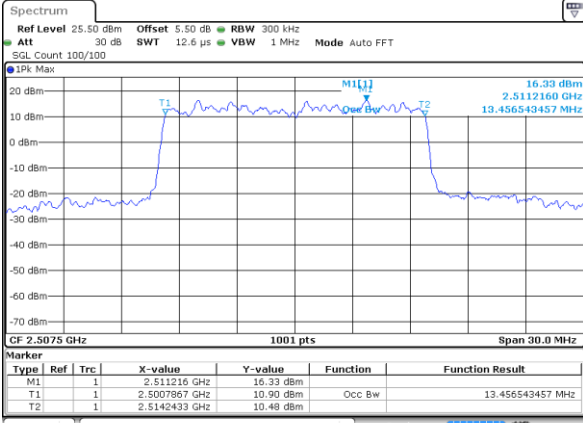


Date: 30 SEP 2018 10:03:32



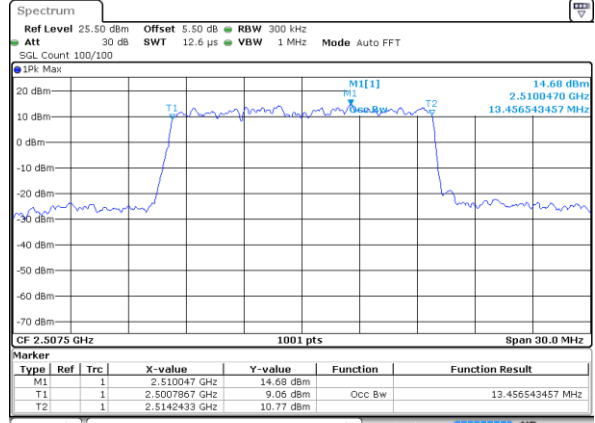
LTE Band 7

Lowest Channel / 15MHz / QPSK



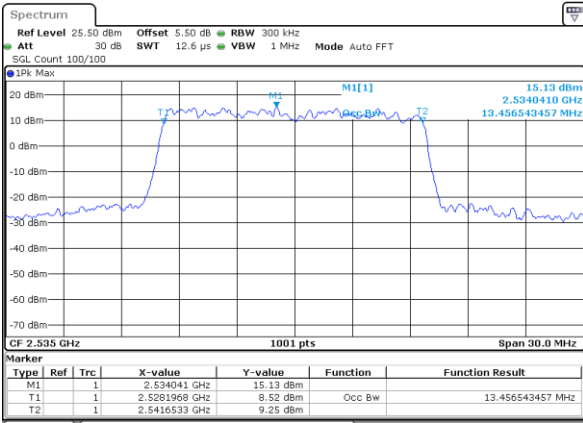
Date: 30 SEP 2018 10:14:06

Lowest Channel / 15MHz / 16QAM



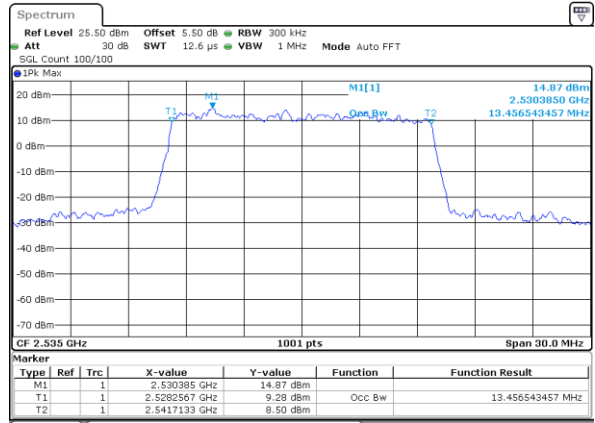
Date: 30 SEP 2018 10:13:46

Middle Channel / 15MHz / QPSK



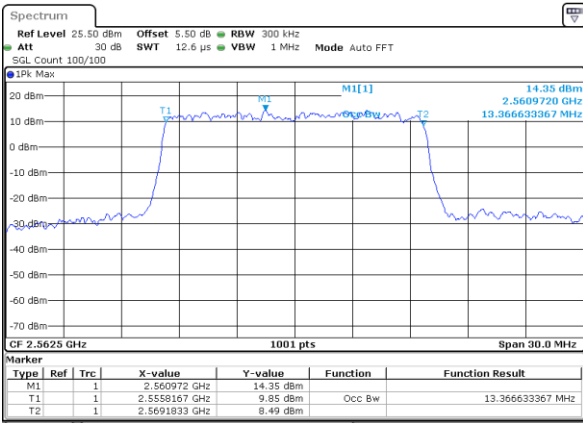
Date: 30 SEP 2018 10:14:26

Middle Channel / 15MHz / 16QAM



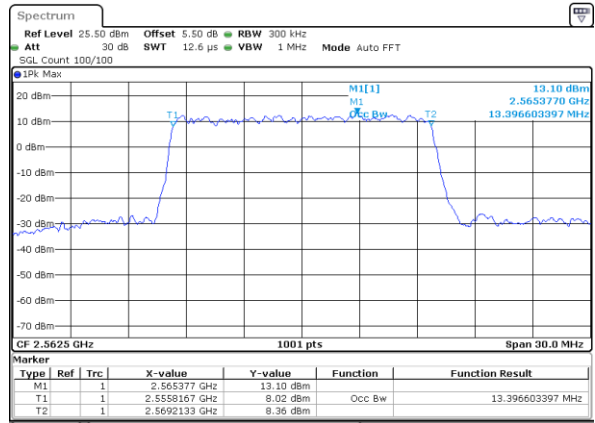
Date: 30 SEP 2018 10:14:45

Highest Channel / 15MHz / QPSK



Date: 30 SEP 2018 10:15:25

Highest Channel / 15MHz / 16QAM

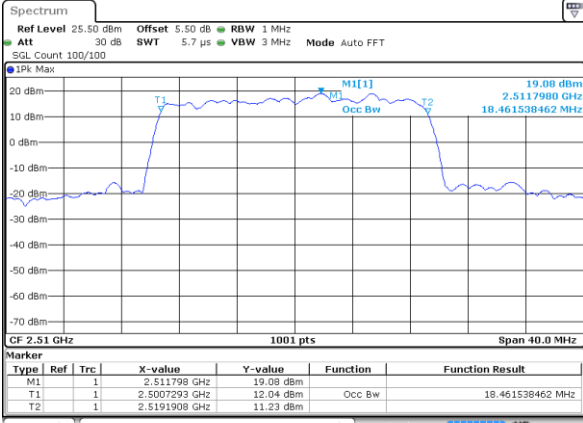


Date: 30 SEP 2018 10:15:05



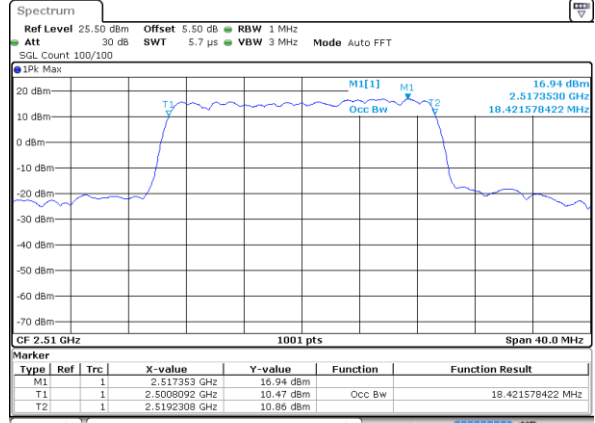
LTE Band 7

Lowest Channel / 20MHz / QPSK



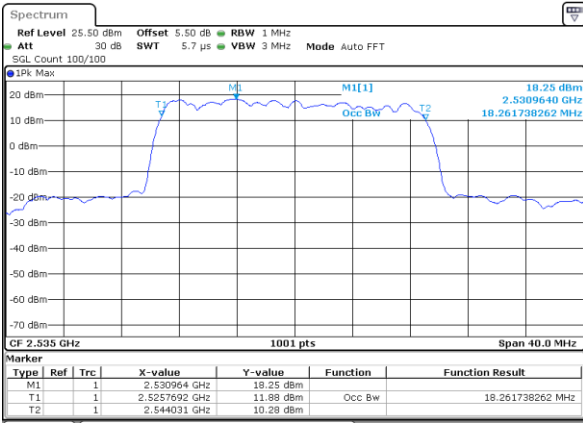
Date: 30 SEP 2018 10:25:59

Lowest Channel / 20MHz / 16QAM



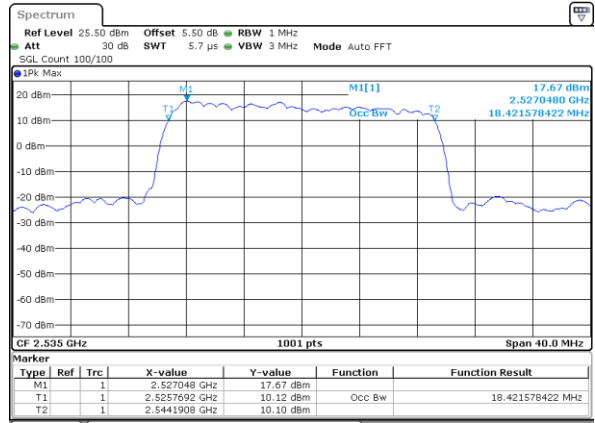
Date: 30 SEP 2018 10:25:39

Middle Channel / 20MHz / QPSK



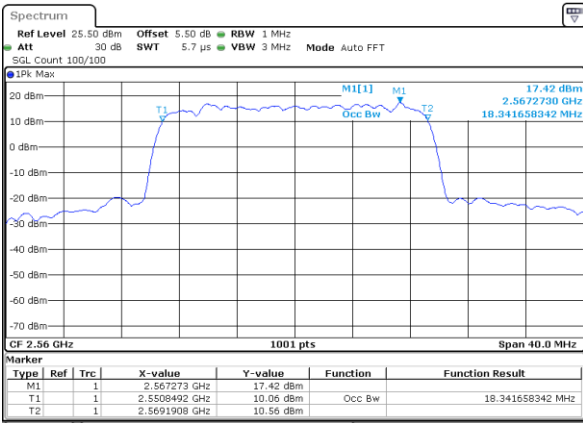
Date: 30 SEP 2018 10:26:19

Middle Channel / 20MHz / 16QAM



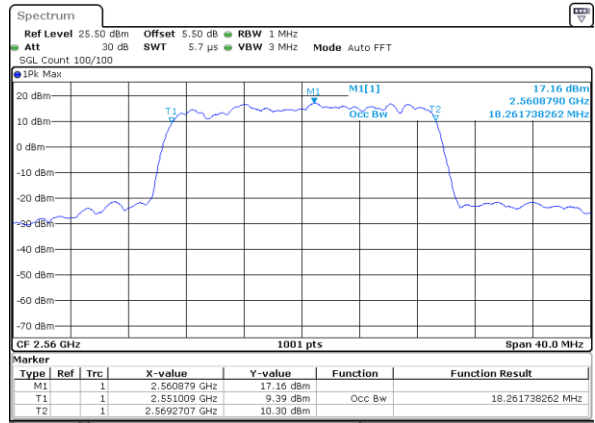
Date: 30 SEP 2018 10:26:39

Highest Channel / 20MHz / QPSK



Date: 30 SEP 2018 10:27:18

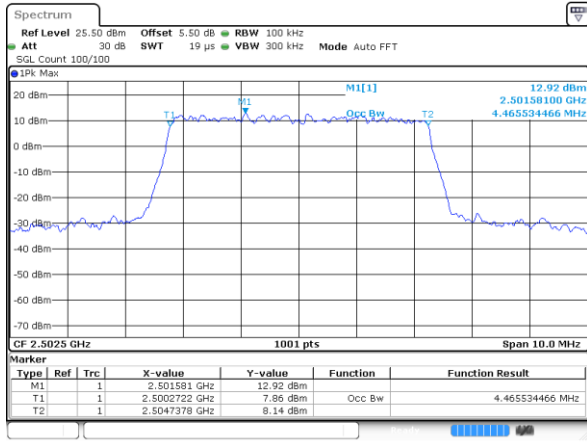
Highest Channel / 20MHz / 16QAM



Date: 30 SEP 2018 10:26:59

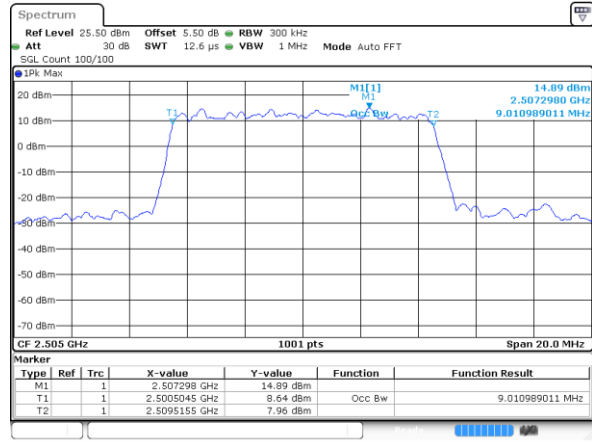


Lowest Channel / 5MHz / 64QAM



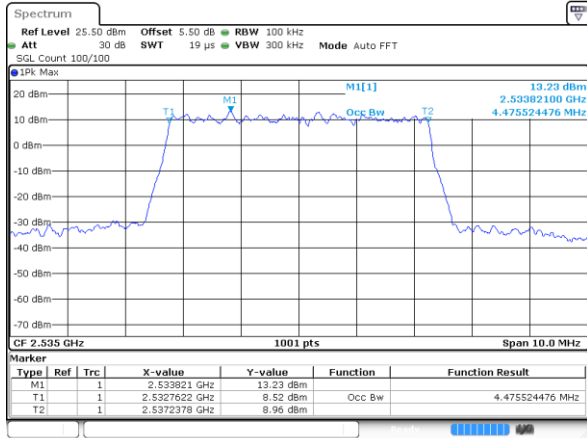
Date: 30 SEP 2018 10:40:13

Lowest Channel / 10MHz / 64QAM



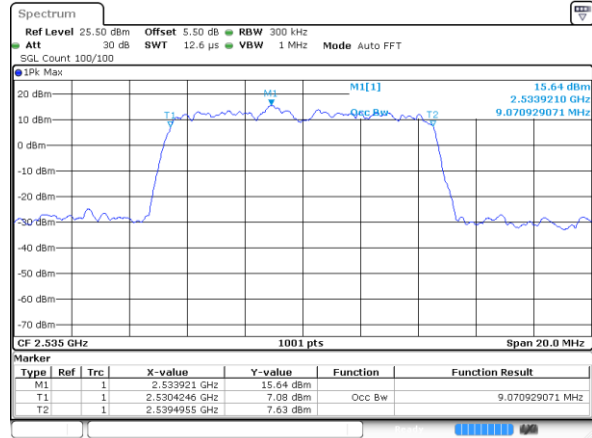
Date: 30 SEP 2018 10:46:09

Middle Channel / 5MHz / 64QAM



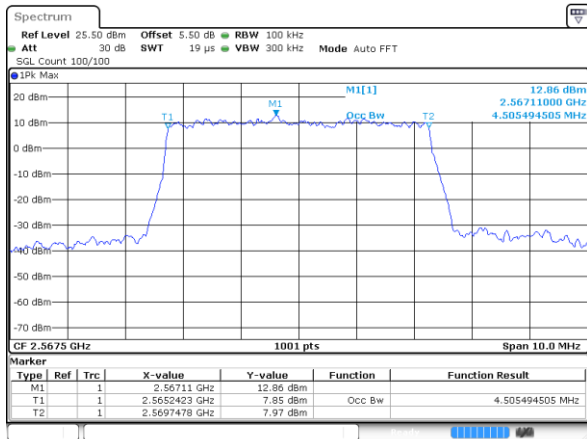
Date: 30 SEP 2018 10:40:23

Middle Channel / 10MHz / 64QAM



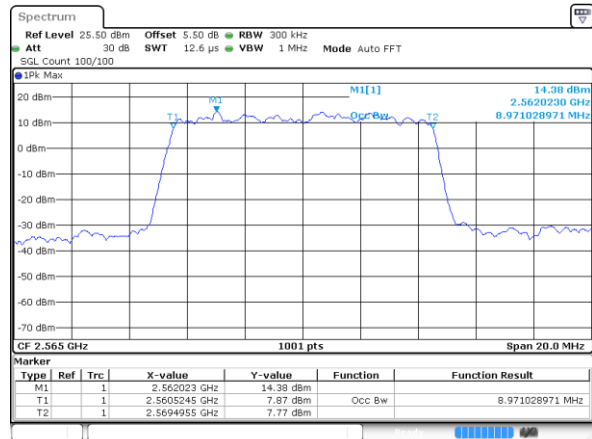
Date: 30 SEP 2018 10:46:19

Highest Channel / 5MHz / 64QAM



Date: 30 SEP 2018 10:40:33

Highest Channel / 10MHz / 64QAM

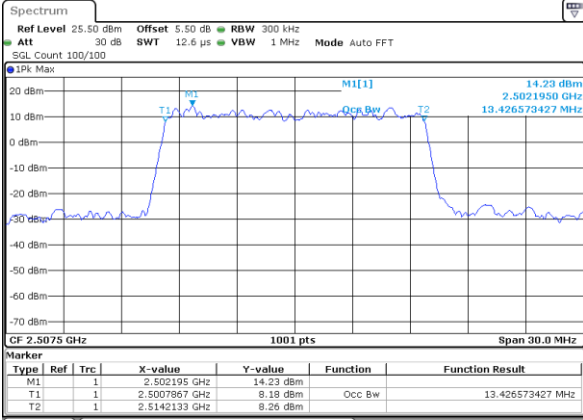


Date: 30 SEP 2018 10:46:29



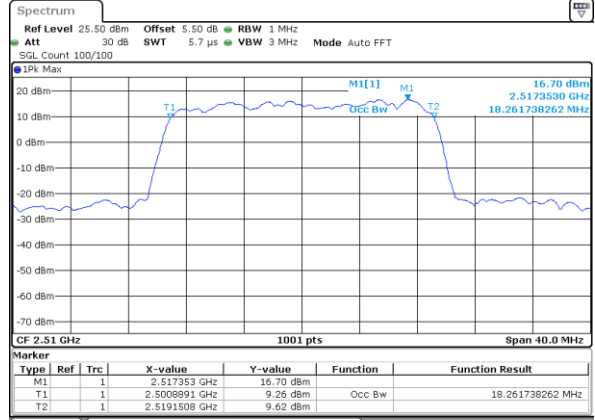
LTE Band 7

Lowest Channel / 15MHz / 64QAM



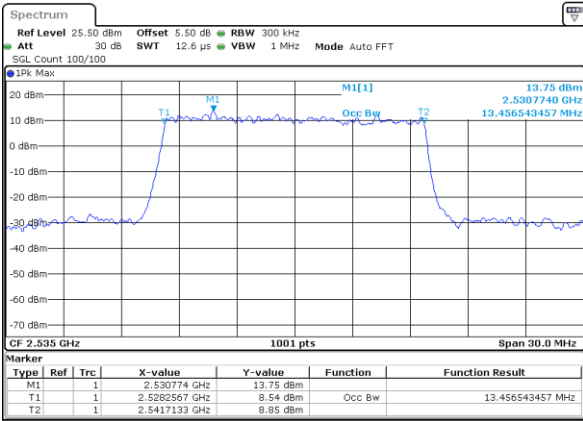
Date: 30 SEP 2018 10:52:06

Lowest Channel / 20MHz / 64QAM



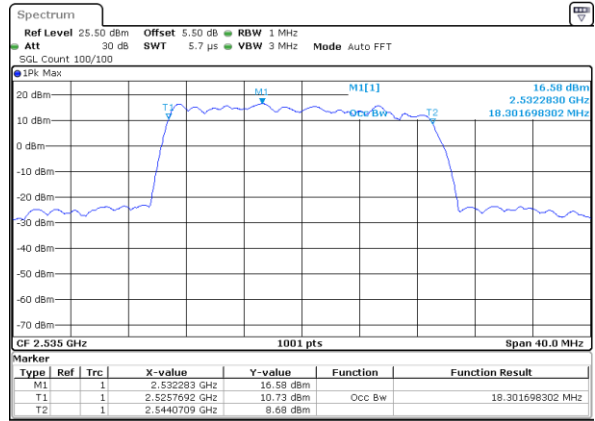
Date: 30 SEP 2018 10:58:03

Middle Channel / 15MHz / 64QAM



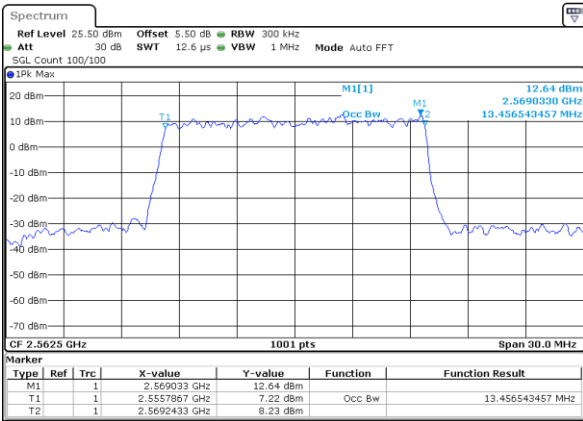
Date: 30 SEP 2018 10:52:16

Middle Channel / 20MHz / 64QAM



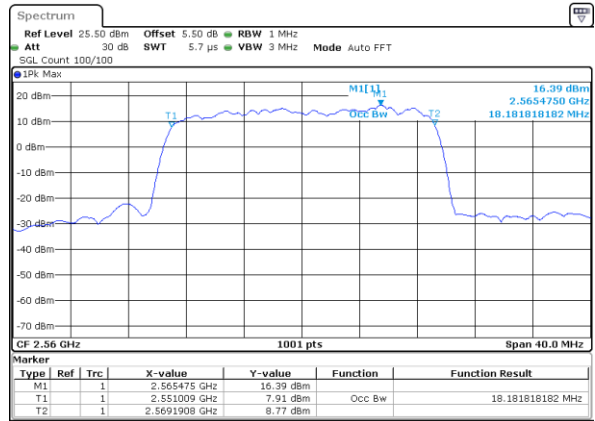
Date: 30 SEP 2018 10:58:12

Highest Channel / 15MHz / 64QAM



Date: 30 SEP 2018 10:52:26

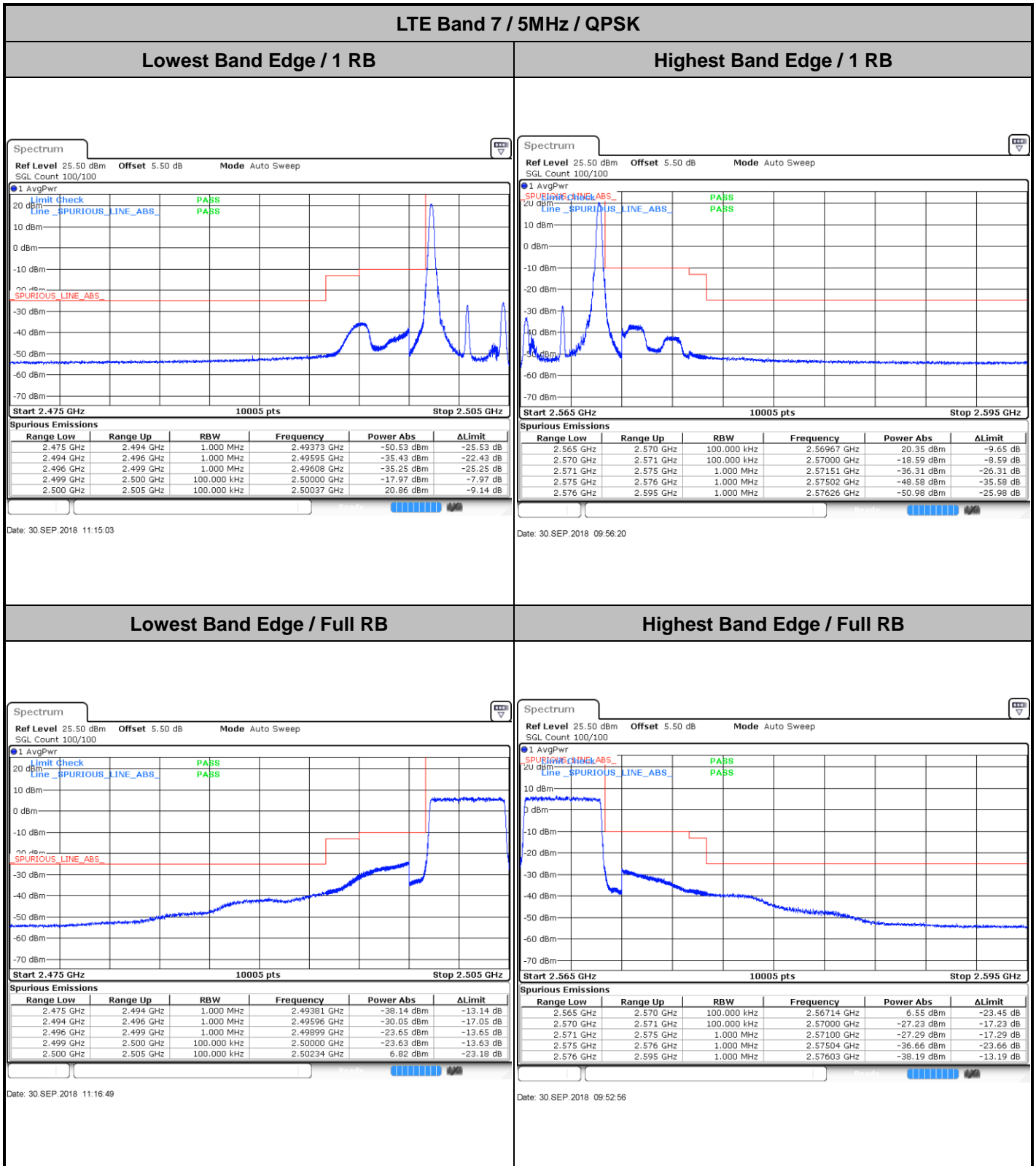
Highest Channel / 20MHz / 64QAM



Date: 30 SEP 2018 10:58:22



Conducted Band Edge

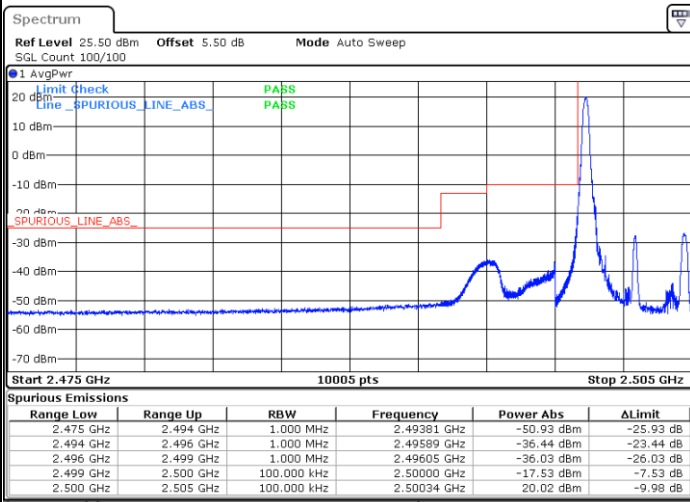




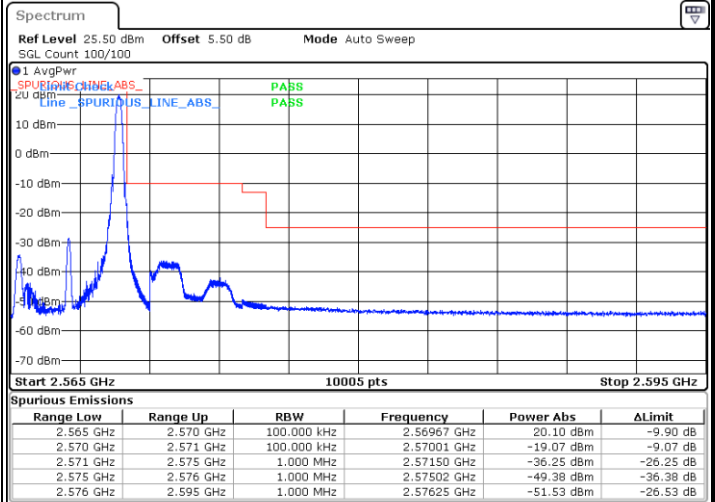
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



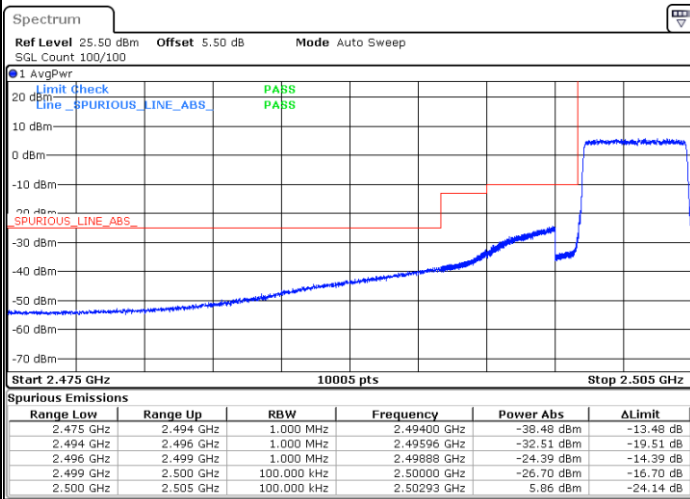
Date: 30.SEP.2018 11:15:19



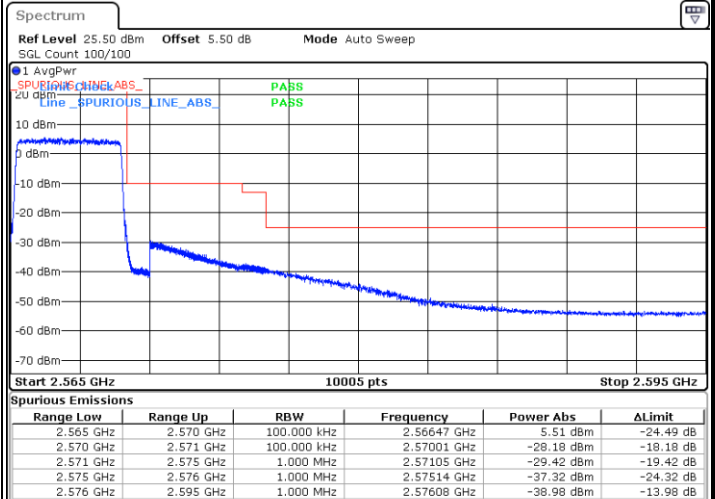
Date: 30.SEP.2018 09:55:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.SEP.2018 11:16:32

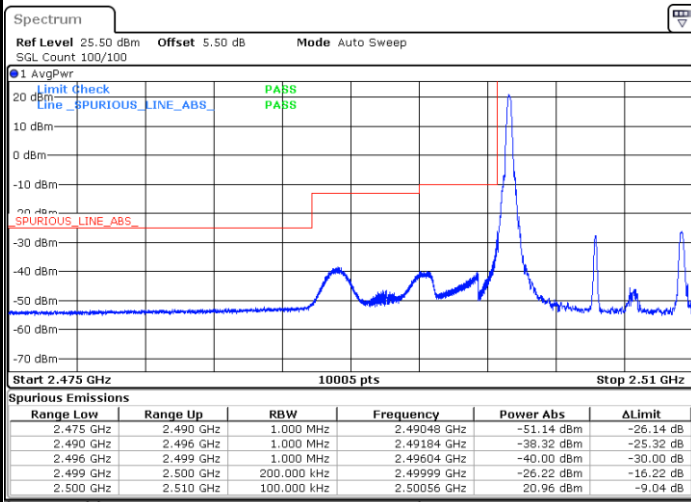


Date: 30.SEP.2018 09:54:04



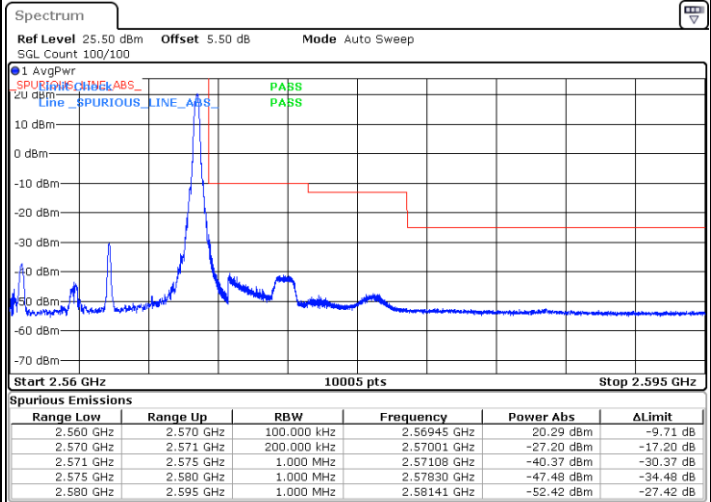
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



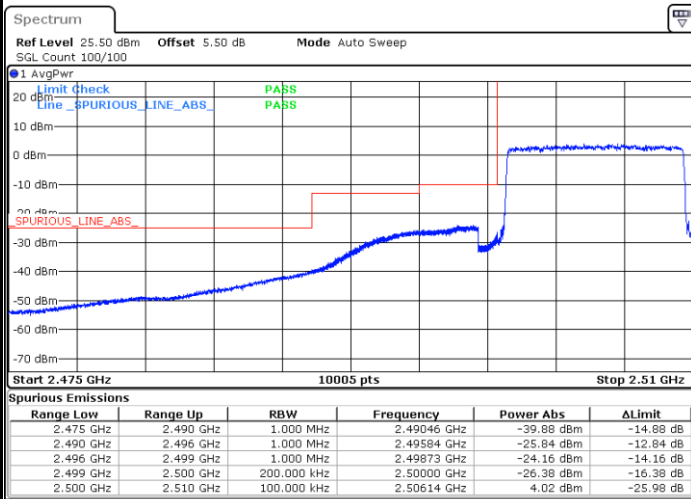
Date: 30.SEP.2018 11:18:29

Highest Band Edge / 1 RB



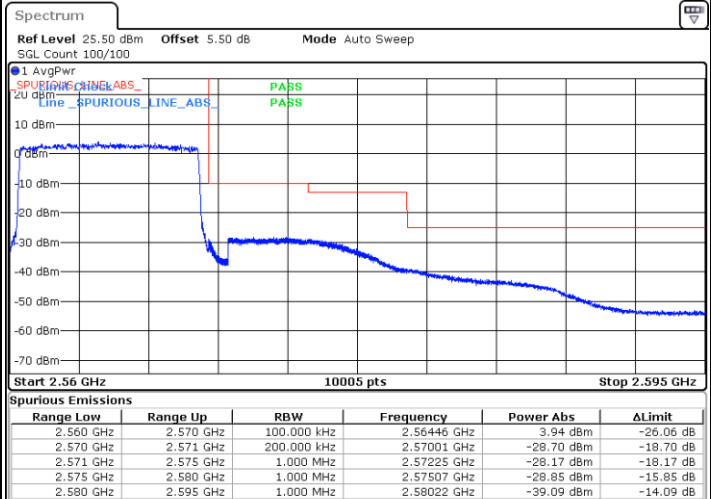
Date: 30.SEP.2018 10:08:13

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:17:09

Highest Band Edge / Full RB



Date: 30.SEP.2018 10:04:50