



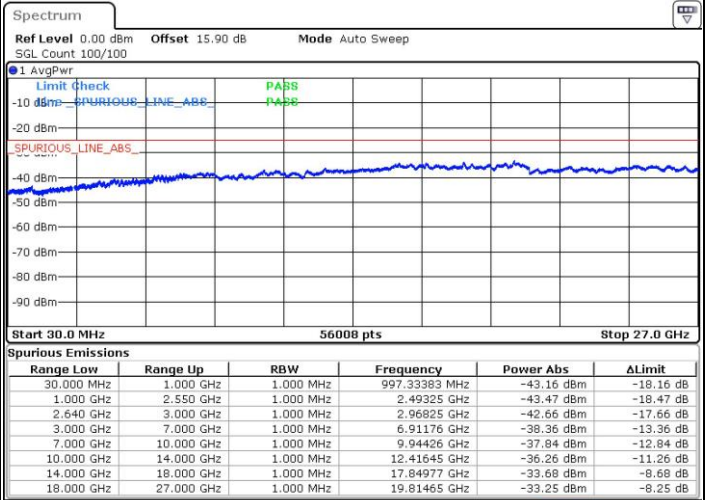
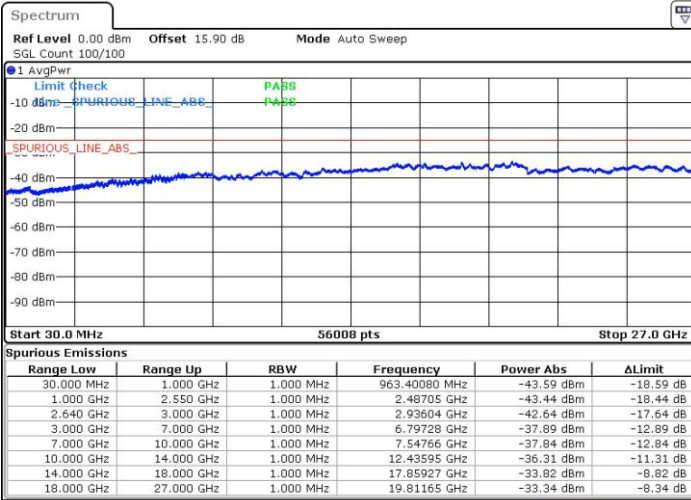
Conducted Spurious Emission



LTE Band 38 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

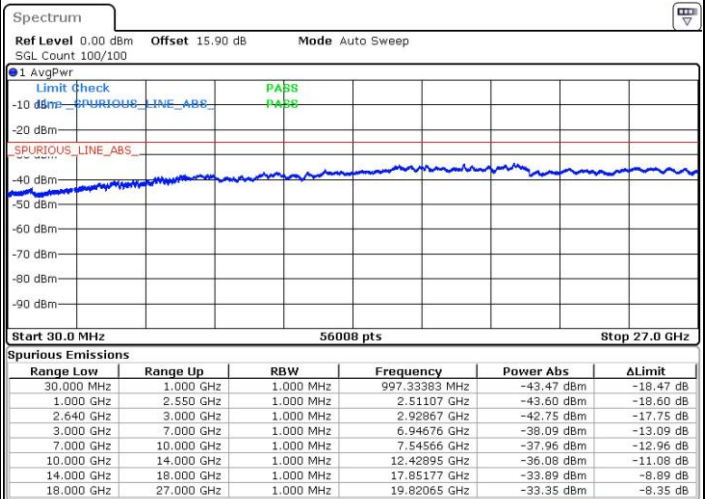
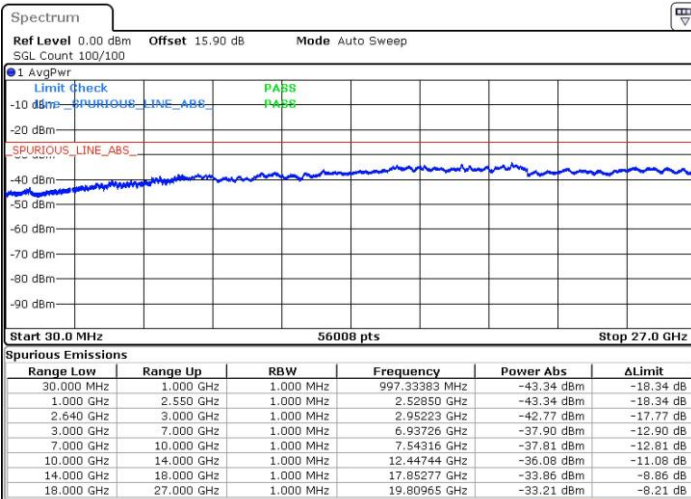


Date: 22 SEP 2018 07:53:13

Date: 22 SEP 2018 07:54:14

Middle Channel / QPSK

Middle Channel / 16QAM



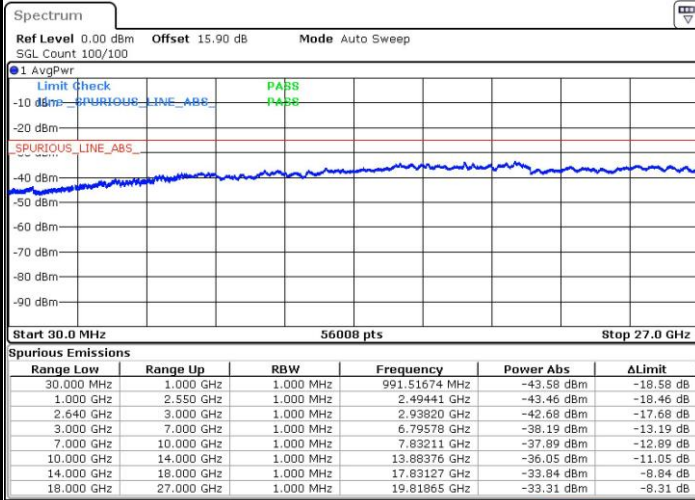
Date: 22 SEP 2018 07:55:14

Date: 22 SEP 2018 07:56:15



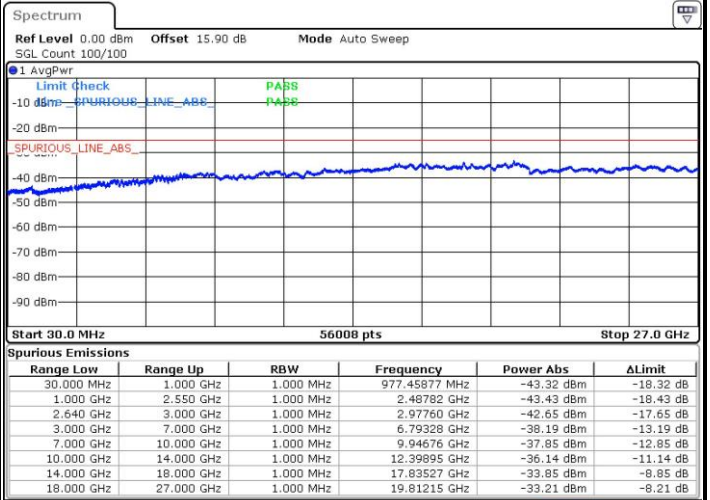
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 22 SEP 2018 07:57:16

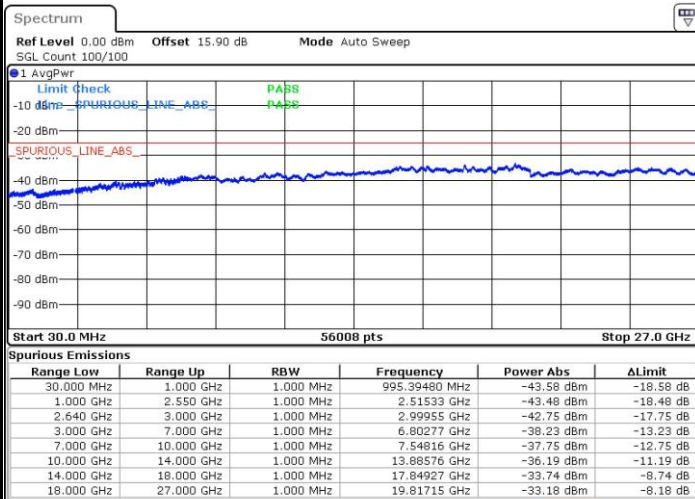
Highest Channel / 16QAM



Date: 22 SEP 2018 07:58:16

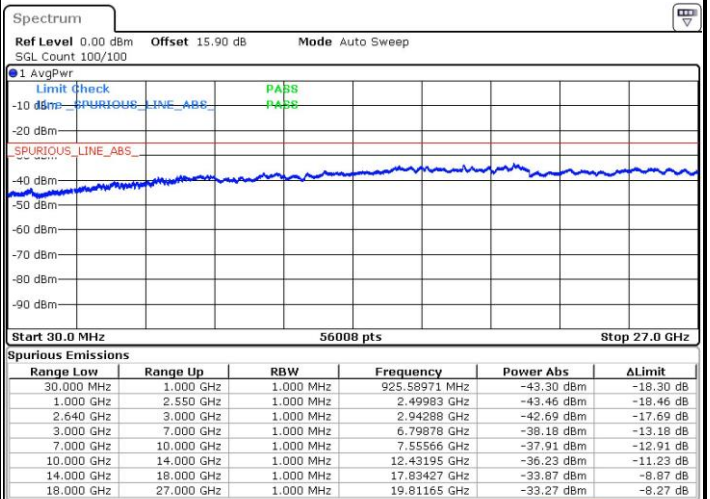
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 22 SEP 2018 07:59:17

Lowest Channel / 16QAM



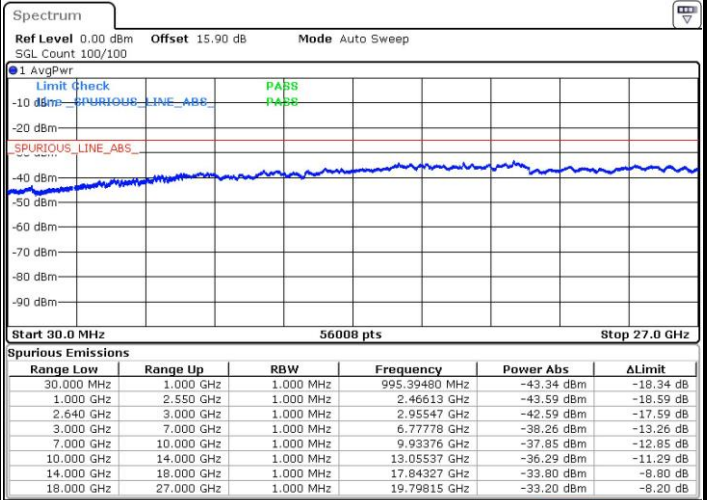
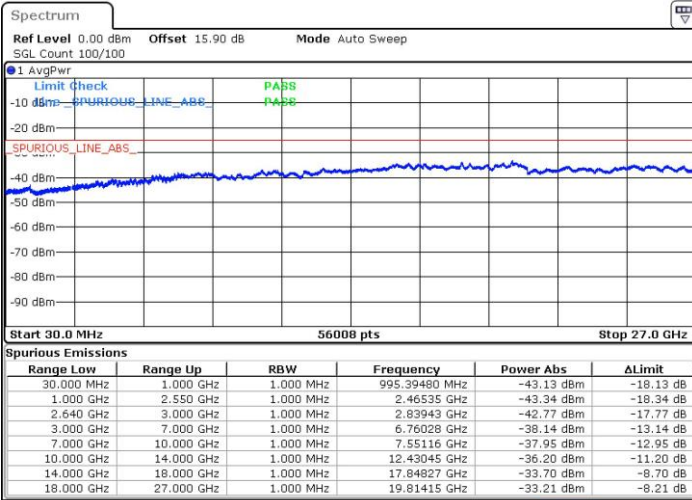
Date: 22 SEP 2018 08:00:18



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

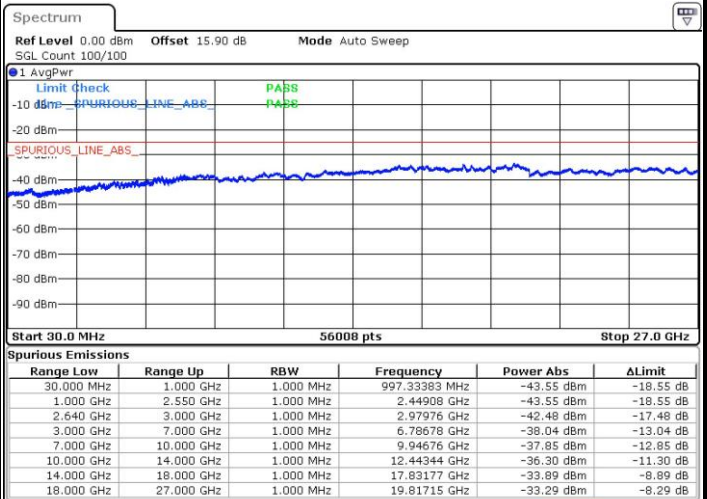
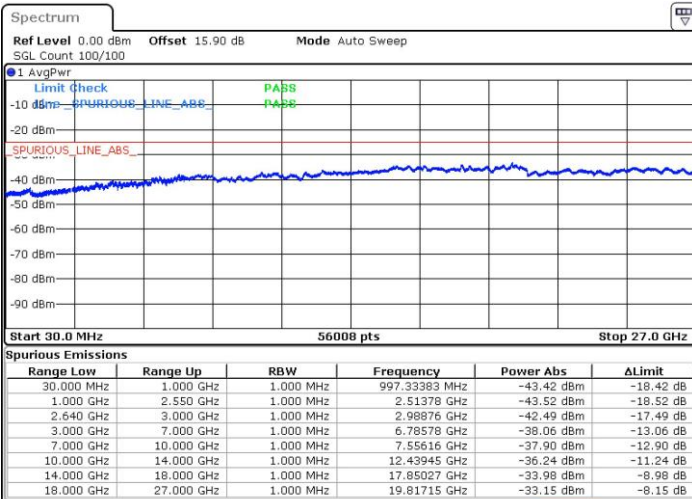


Date: 22 SEP.2018 08:01:18

Date: 22 SEP.2018 08:02:19

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 SEP.2018 08:03:20

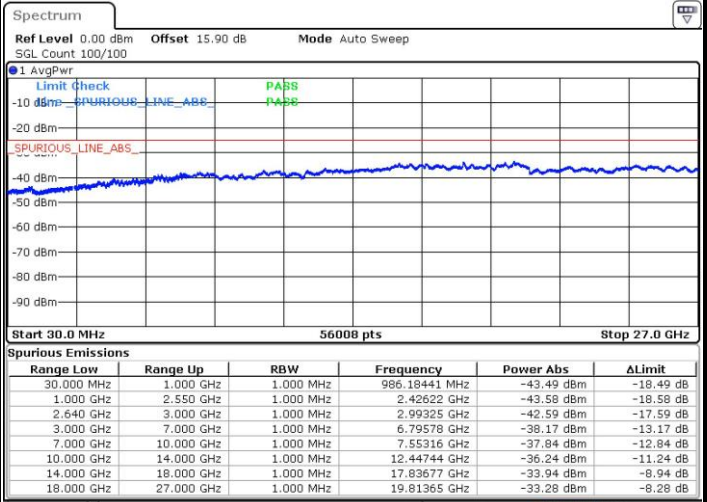
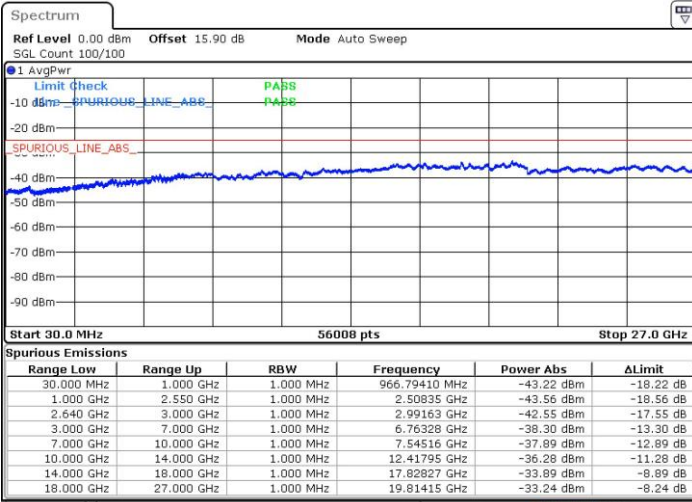
Date: 22 SEP.2018 08:04:20



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

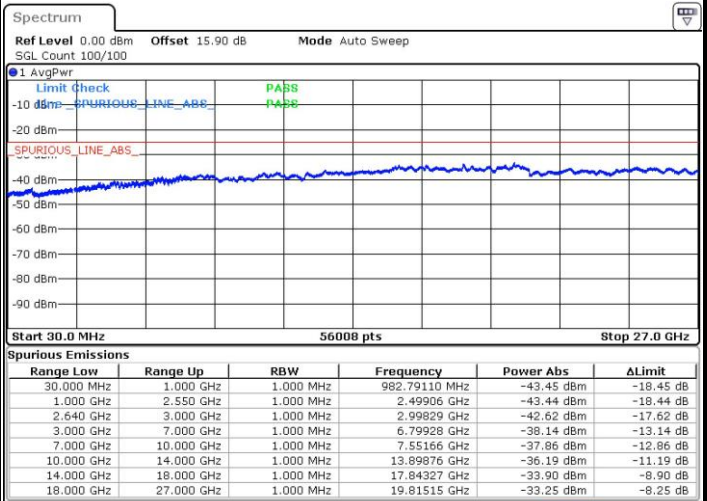
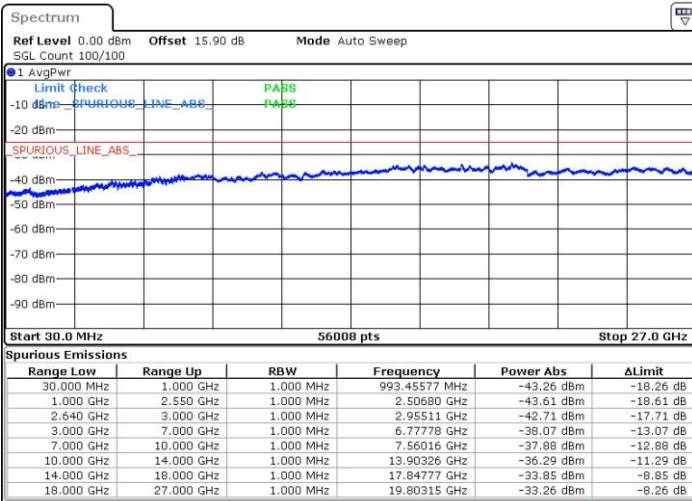


Date: 22 SEP 2018 08:05:21

Date: 22 SEP 2018 08:06:22

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 22 SEP 2018 08:07:22

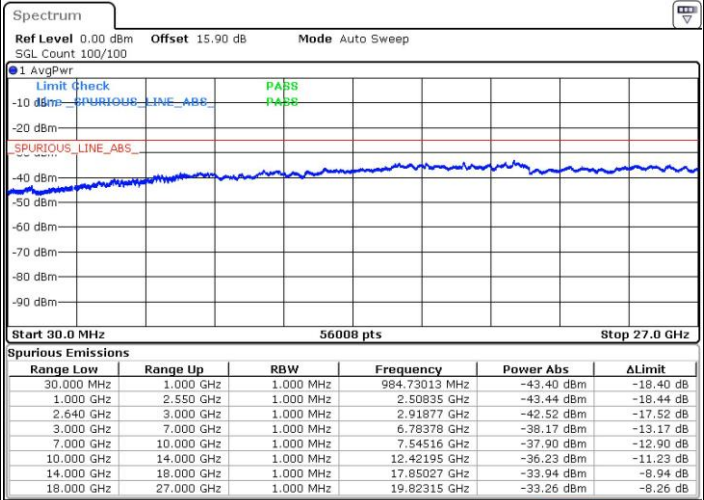
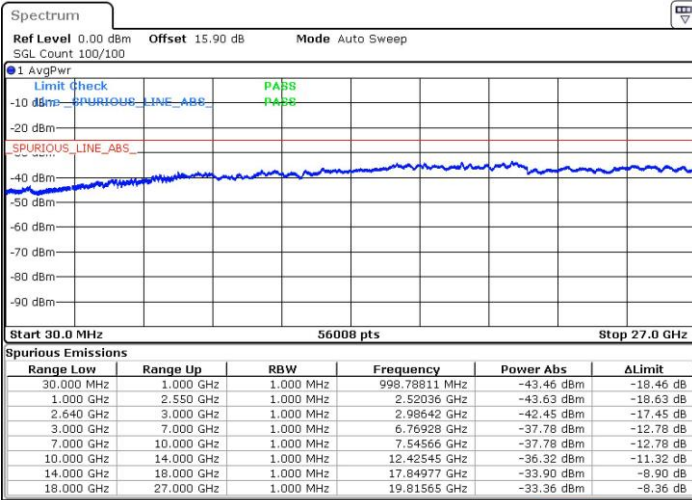
Date: 22 SEP 2018 08:08:23



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



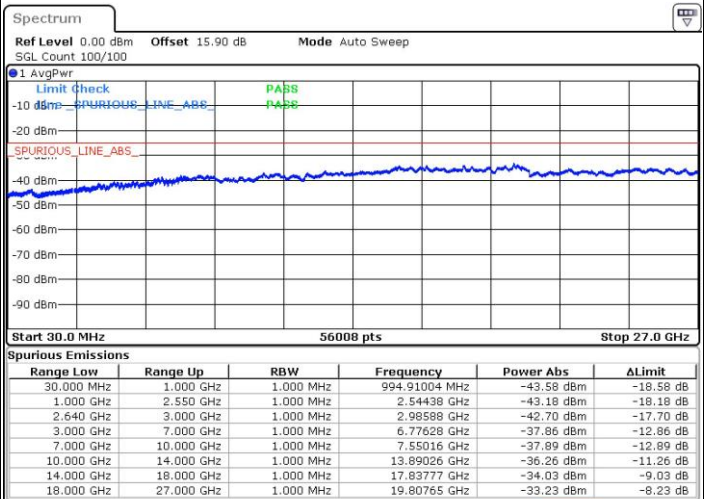
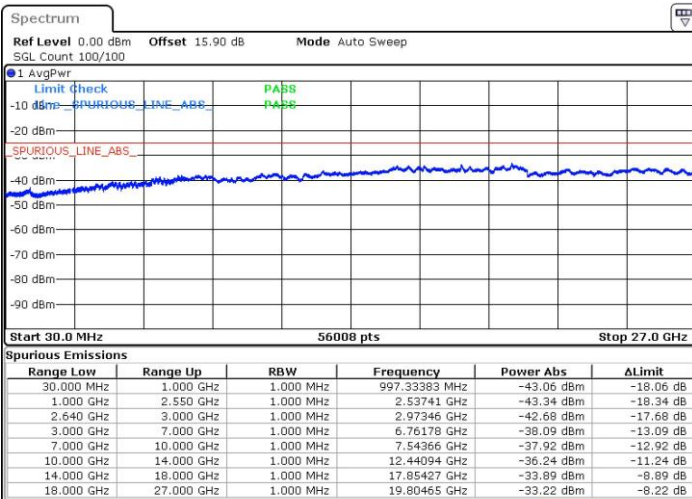
Date: 22 SEP 2018 08:09:24

Date: 22 SEP 2018 08:10:25

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 22 SEP 2018 08:11:25

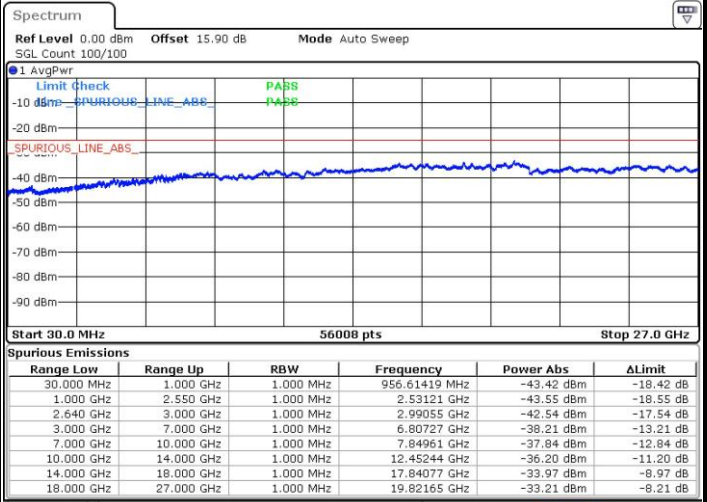
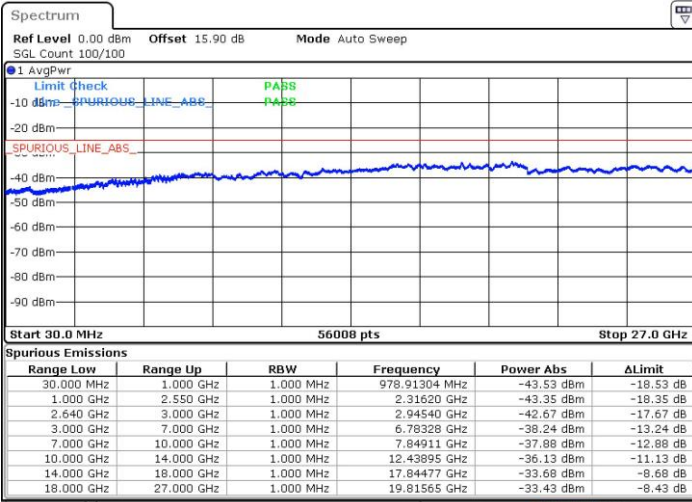
Date: 22 SEP 2018 08:12:25



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

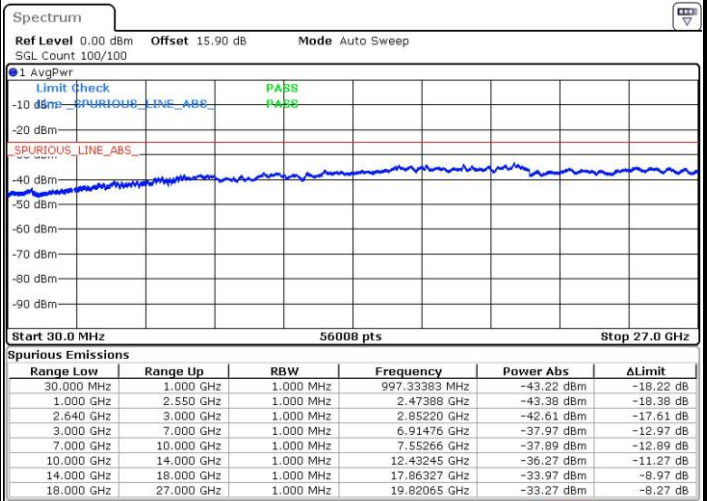
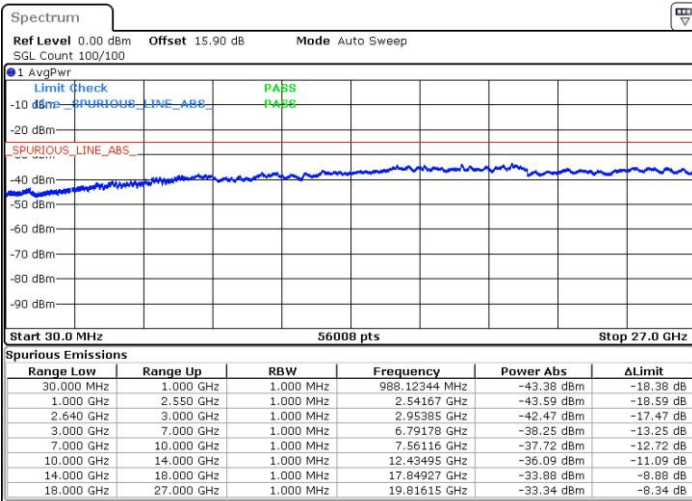


Date: 22 SEP 2018 08:13:27

Date: 22 SEP 2018 08:14:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 SEP 2018 08:15:28

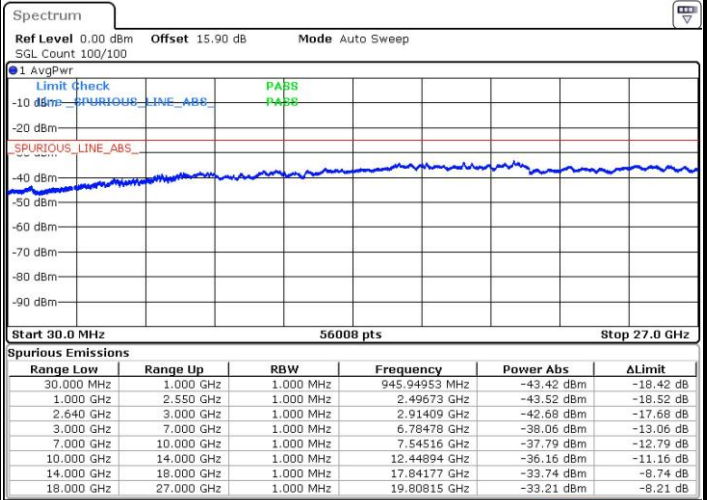
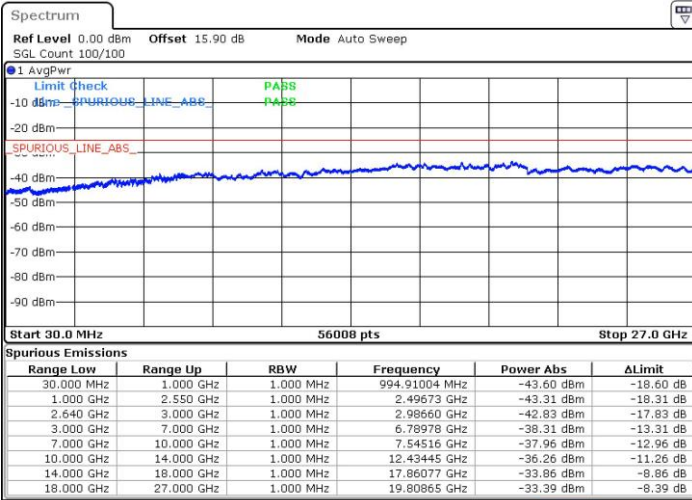
Date: 22 SEP 2018 08:16:29



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

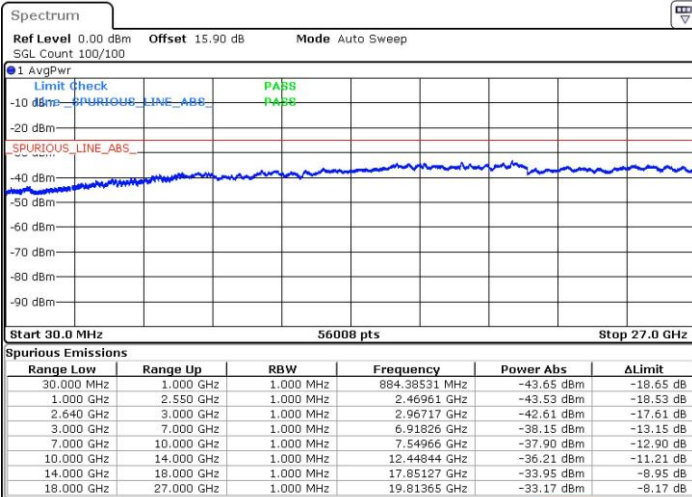
Middle Channel / 64QAM



Date: 22 SEP.2018 07:41:06

Date: 22 SEP.2018 07:42:06

Highest Channel / 64QAM



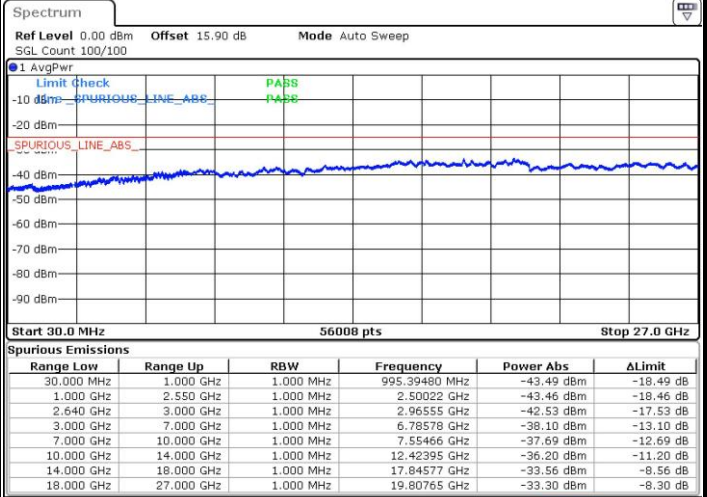
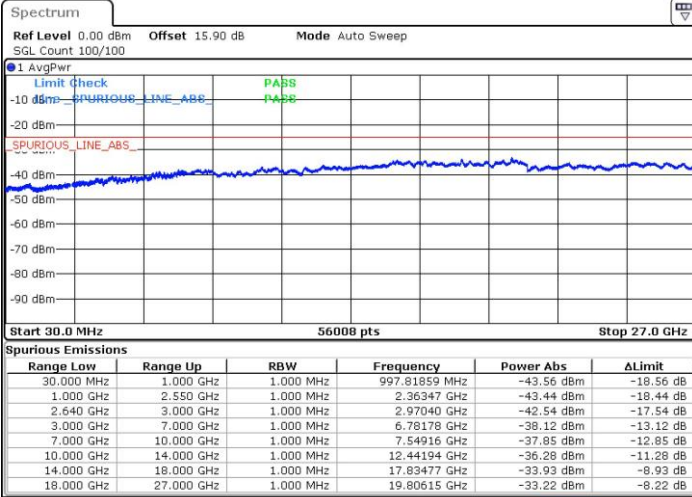
Date: 22 SEP.2018 07:43:07



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

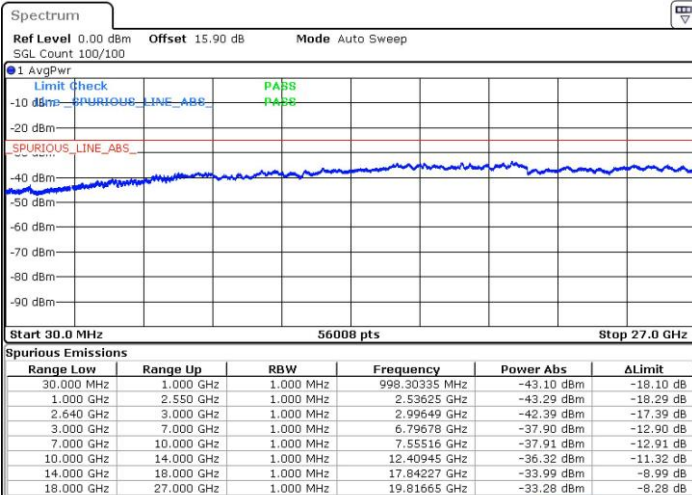
Middle Channel / 64QAM



Date: 22 SEP 2018 07:44:07

Date: 22 SEP 2018 07:45:08

Highest Channel / 64QAM



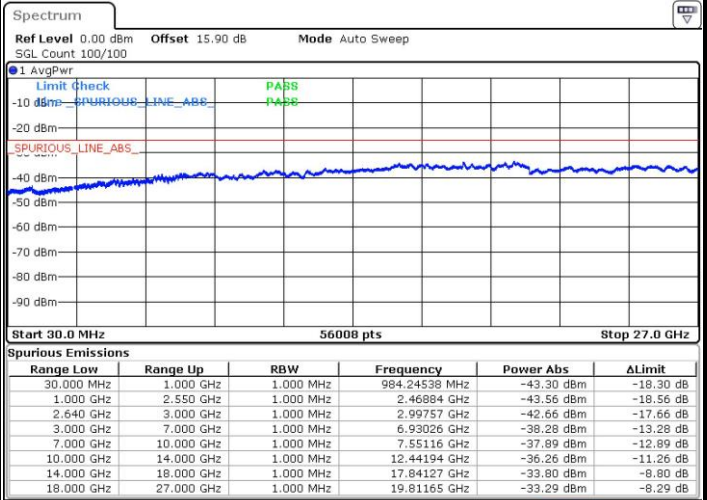
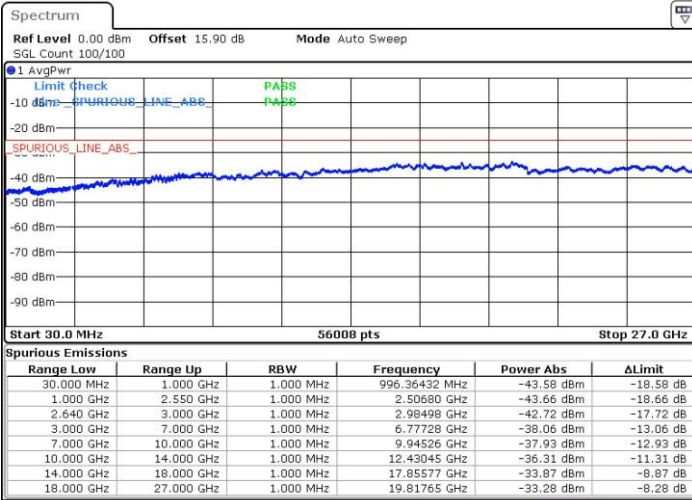
Date: 22 SEP 2018 07:46:09



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

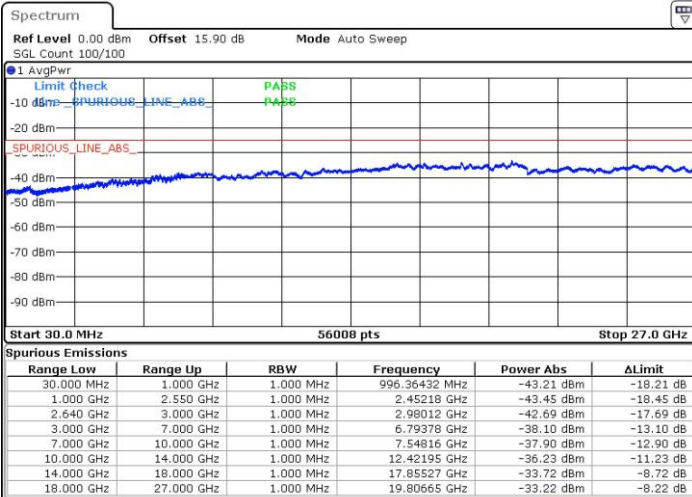
Middle Channel / 64QAM



Date: 22 SEP 2018 07:47:09

Date: 22 SEP 2018 07:48:10

Highest Channel / 64QAM



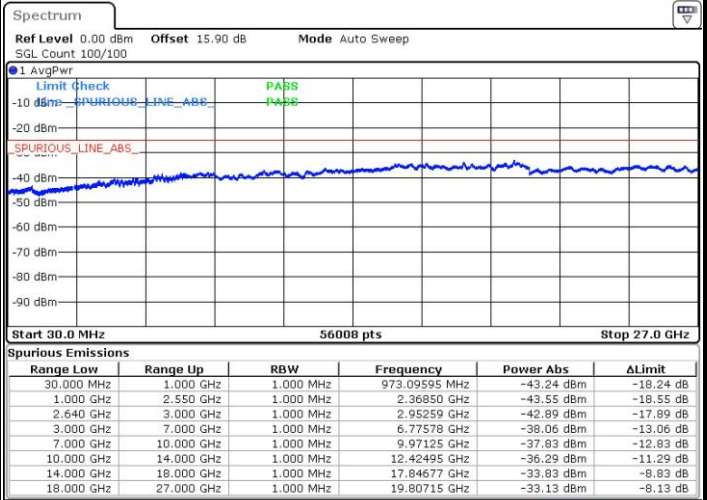
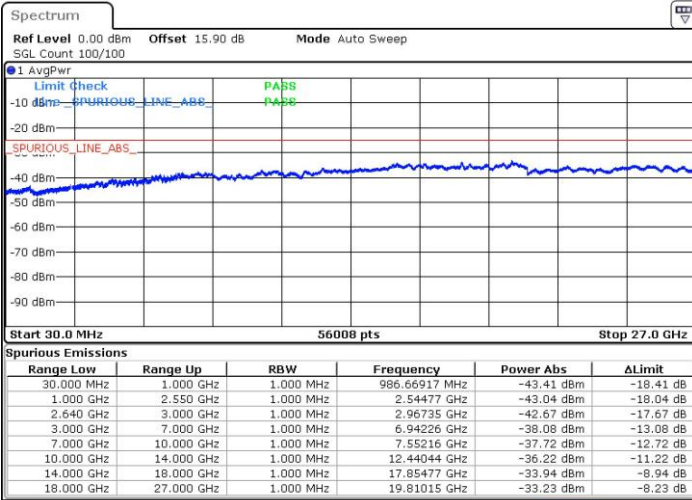
Date: 22 SEP 2018 07:49:10



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

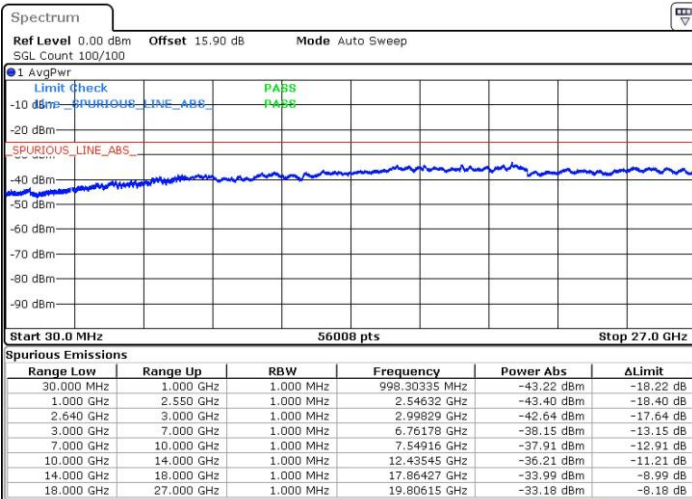
Middle Channel / 64QAM



Date: 22 SEP 2018 07:50:11

Date: 22 SEP 2018 07:51:12

Highest Channel / 64QAM



Date: 22 SEP 2018 07:52:12



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.40 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

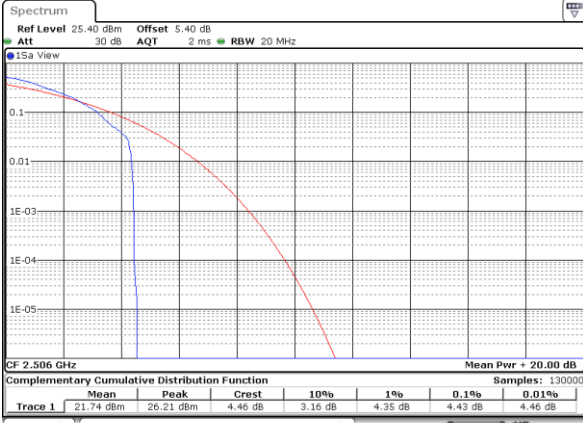
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.43	5.1	6.17	5.86	PASS
Middle CH	5.25	4.7	5.42	6.2	
Highest CH	3.59	4.29	4.87	6.29	
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.06	6.38			PASS
Middle CH	6.49	6.35			
Highest CH	6.61	6.81			



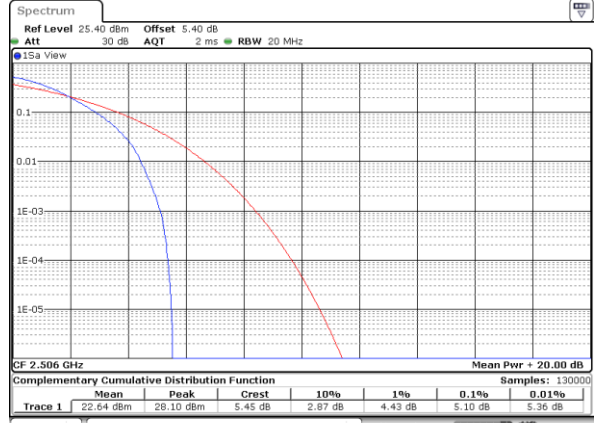
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 8 SEP 2018 11:27:37

Lowest Channel / Full RB



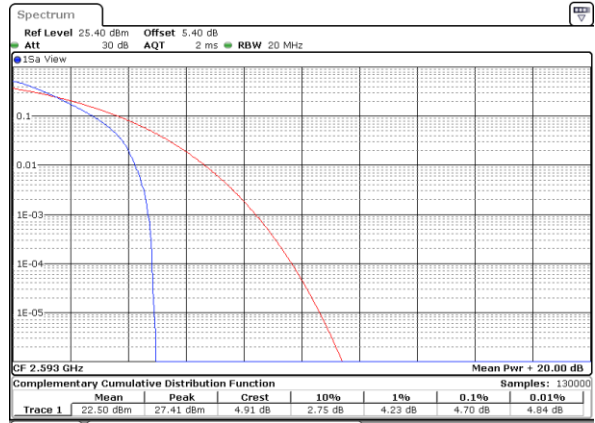
Date: 8 SEP 2018 11:28:52

Middle Channel / 1RB



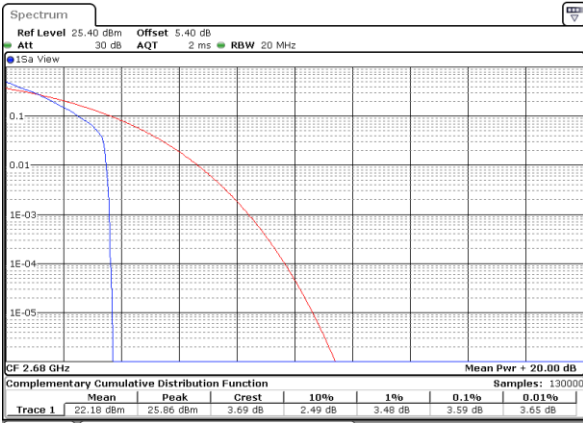
Date: 8 SEP 2018 11:04:18

Middle Channel / Full RB



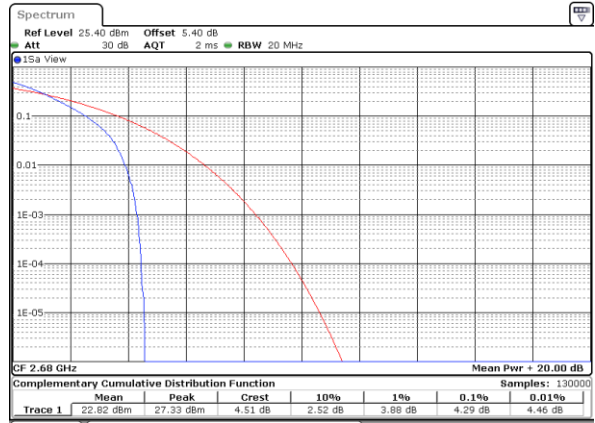
Date: 8 SEP 2018 11:04:30

Highest Channel / 1RB



Date: 8 SEP 2018 11:04:55

Highest Channel / Full RB

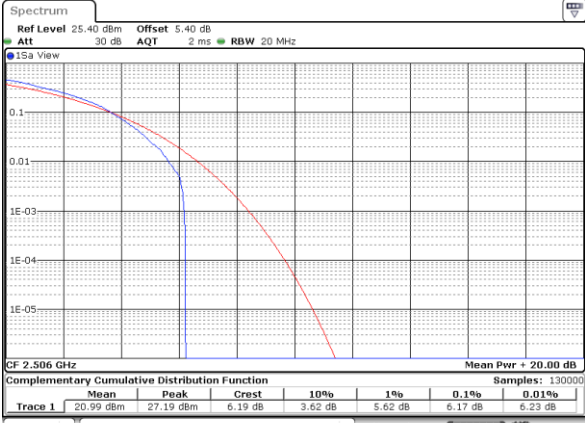


Date: 8 SEP 2018 11:05:38



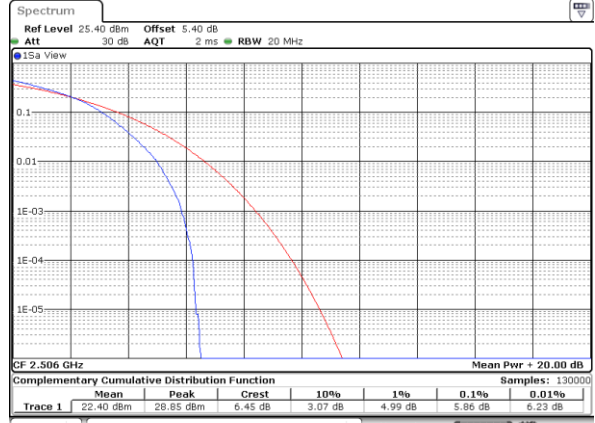
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



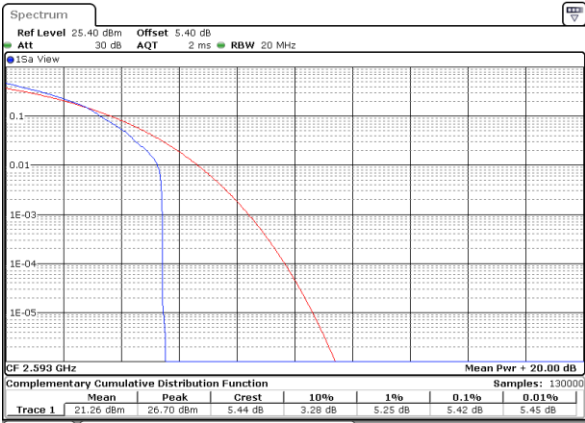
Date: 8 SEP 2018 11:28:25

Lowest Channel / Full RB



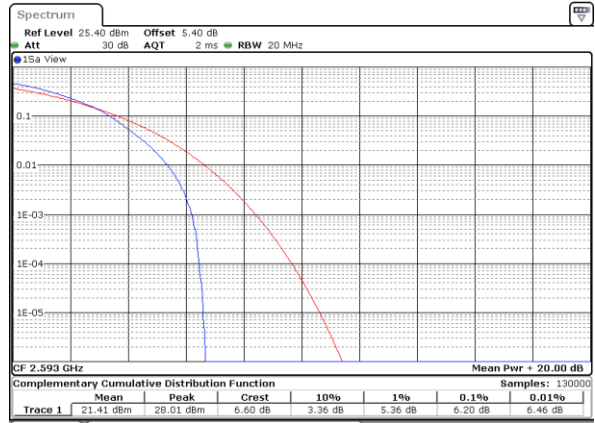
Date: 8 SEP 2018 11:28:06

Middle Channel / 1RB



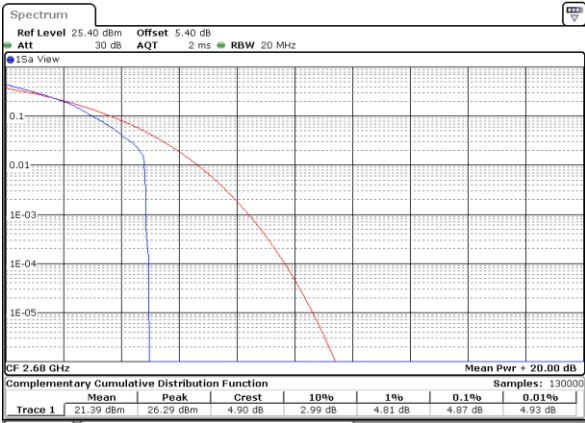
Date: 8 SEP 2018 11:01:40

Middle Channel / Full RB



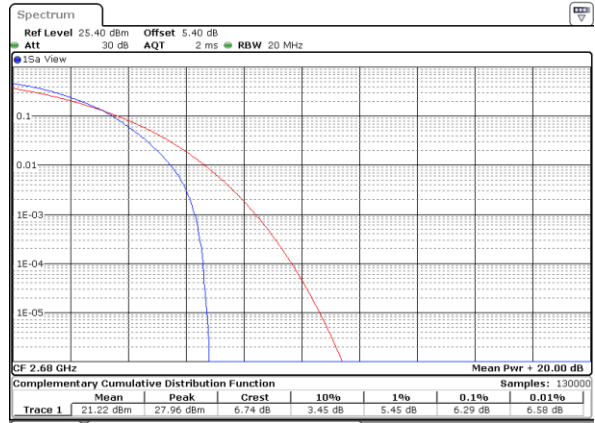
Date: 8 SEP 2018 11:02:23

Highest Channel / 1RB



Date: 8 SEP 2018 11:02:43

Highest Channel / Full RB

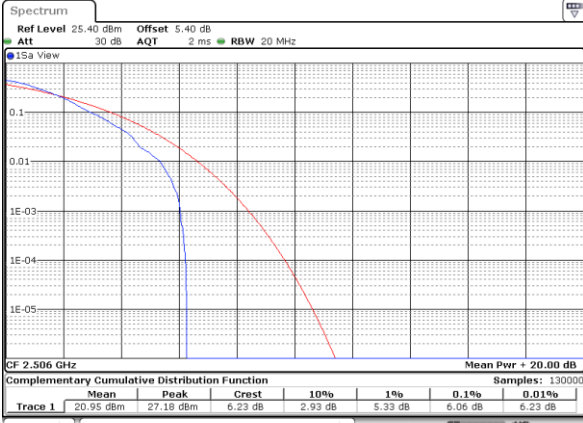


Date: 8 SEP 2018 11:30:29



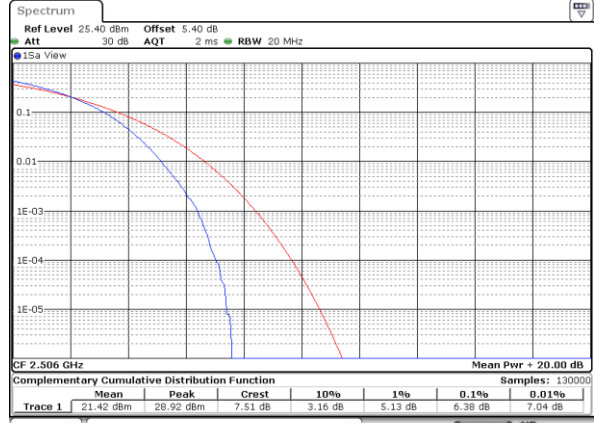
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



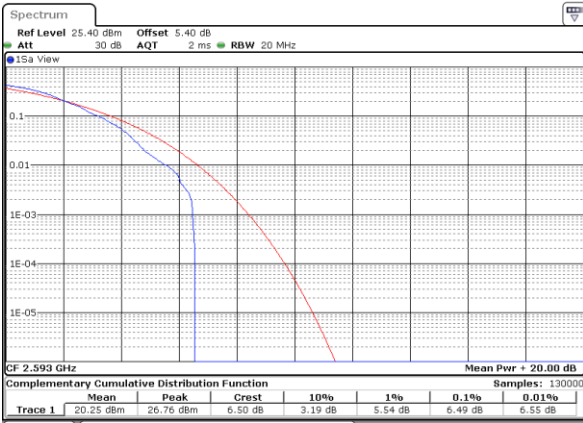
Date: 8 SEP 2018 11:23:57

Lowest Channel / Full RB



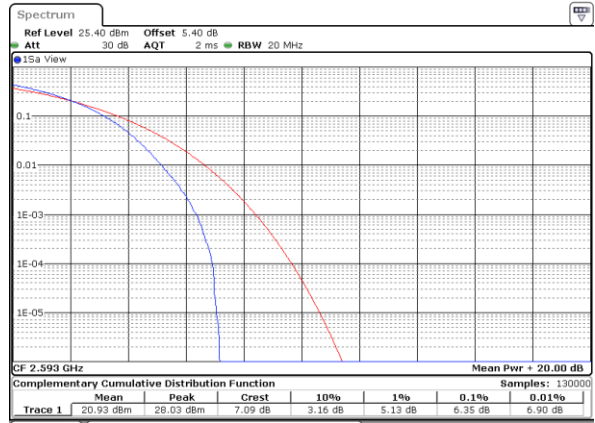
Date: 8 SEP 2018 11:26:50

Middle Channel / 1RB



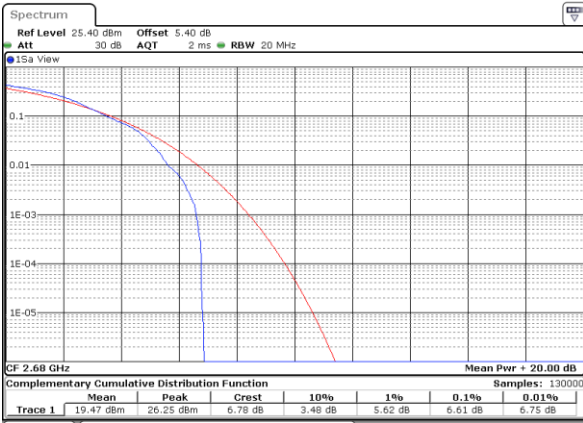
Date: 8 SEP 2018 11:07:09

Middle Channel / Full RB



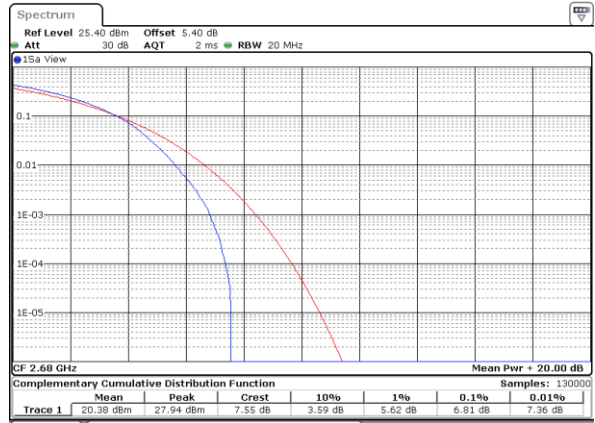
Date: 8 SEP 2018 11:07:18

Highest Channel / 1RB



Date: 8 SEP 2018 11:07:57

Highest Channel / Full RB



Date: 8 SEP 2018 11:07:36



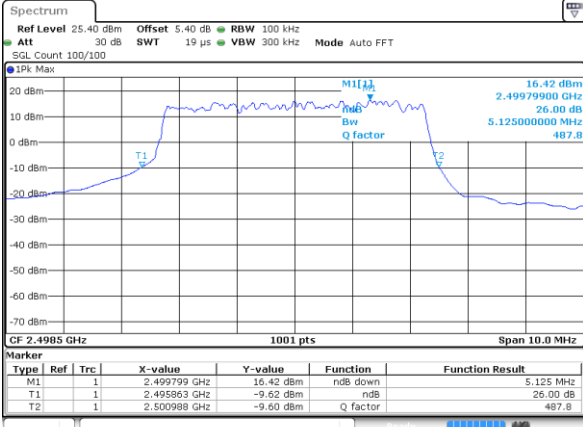
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(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	5.125	4.925	9.67	9.59	14.416	14.535	20.38	20.14	4.865	9.77	14.236	20.1
Middle CH	4.885	4.935	9.73	9.67	14.326	14.416	20.06	20.22	4.925	9.77	14.386	20.18
Highest CH	4.905	4.895	9.81	9.63	14.206	14.386	20.14	19.98	4.905	9.67	14.206	20.06



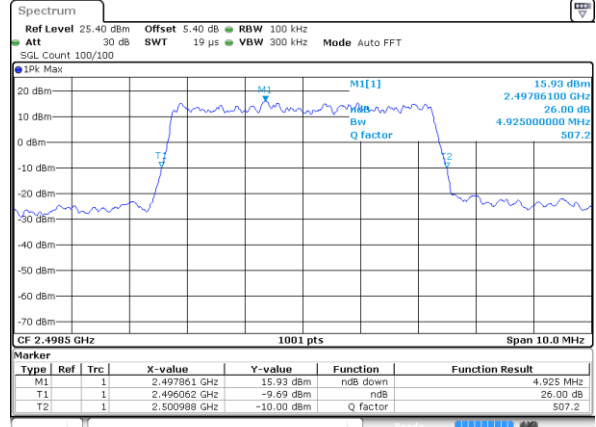
LTE Band 41

Lowest Channel / 5MHz / QPSK



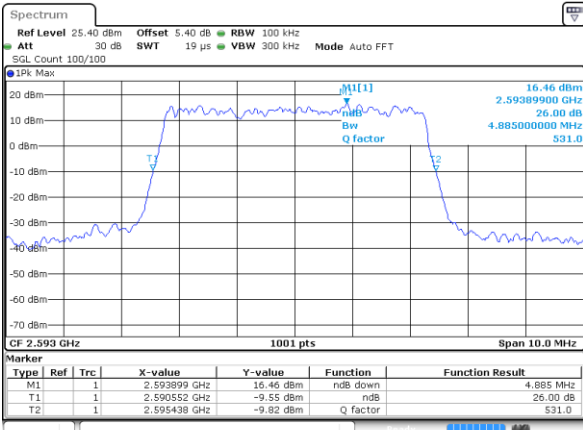
Date: 8 SEP 2018 10:48:51

Lowest Channel / 5MHz / 16QAM



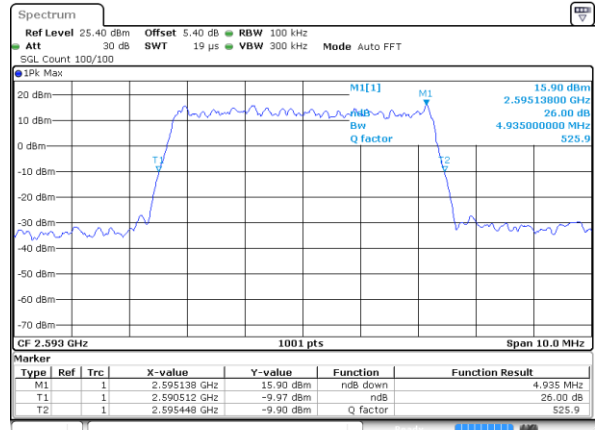
Date: 8 SEP 2018 10:49:01

Middle Channel / 5MHz / QPSK



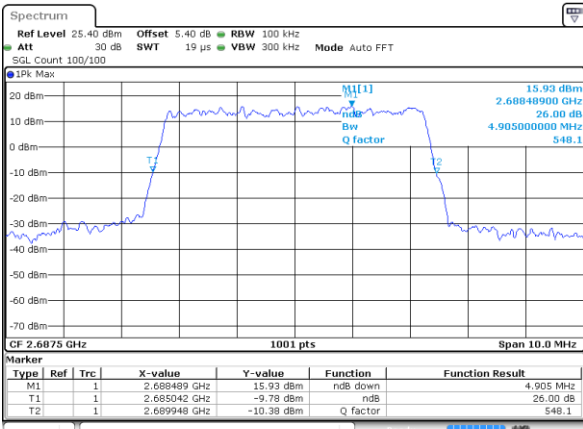
Date: 8 SEP 2018 10:49:31

Middle Channel / 5MHz / 16QAM



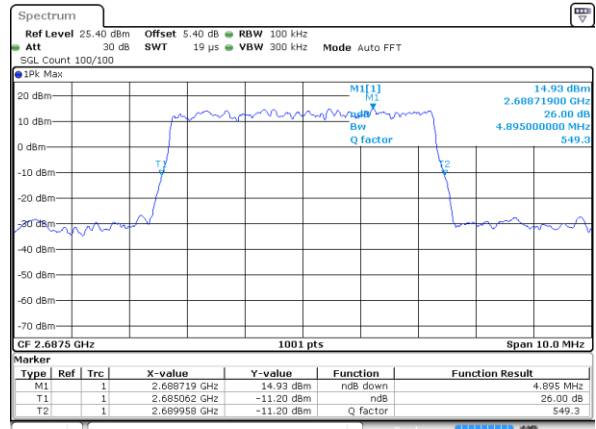
Date: 8 SEP 2018 10:49:41

Highest Channel / 5MHz / QPSK



Date: 8 SEP 2018 10:50:10

Highest Channel / 5MHz / 16QAM

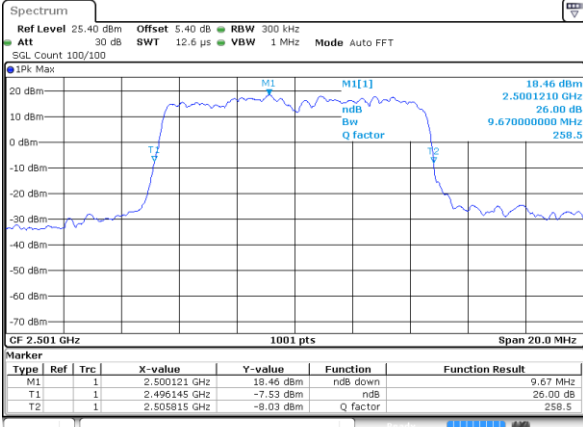


Date: 8 SEP 2018 10:50:20



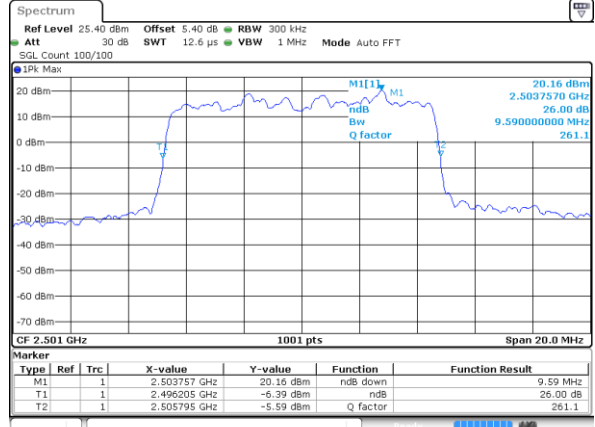
LTE Band 41

Lowest Channel / 10MHz / QPSK



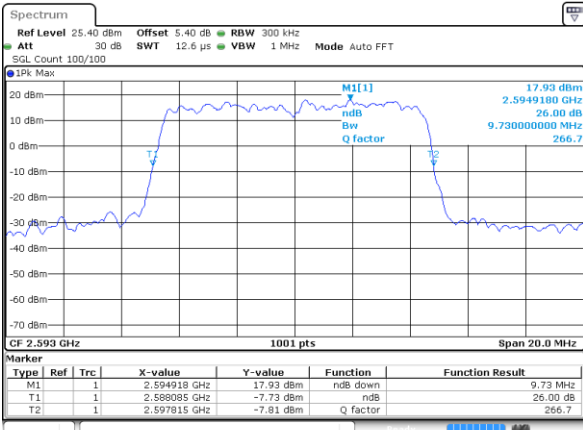
Date: 8 SEP 2018 10:50:50

Lowest Channel / 10MHz / 16QAM



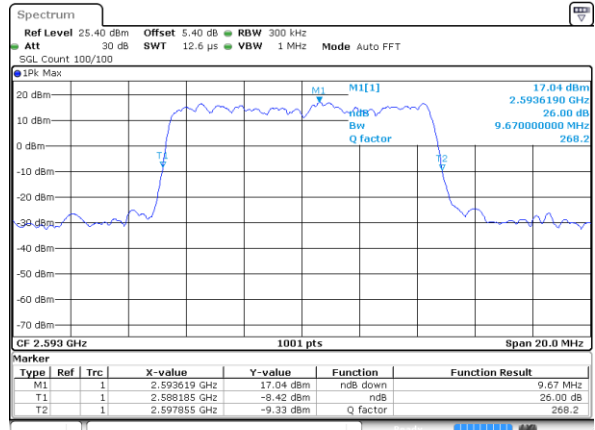
Date: 8 SEP 2018 10:51:00

Middle Channel / 10MHz / QPSK



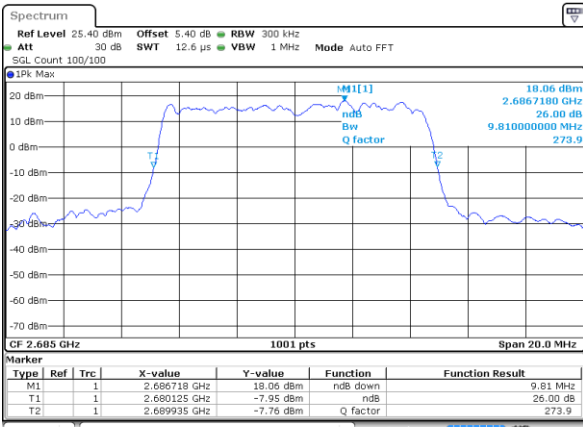
Date: 8 SEP 2018 10:51:30

Middle Channel / 10MHz / 16QAM



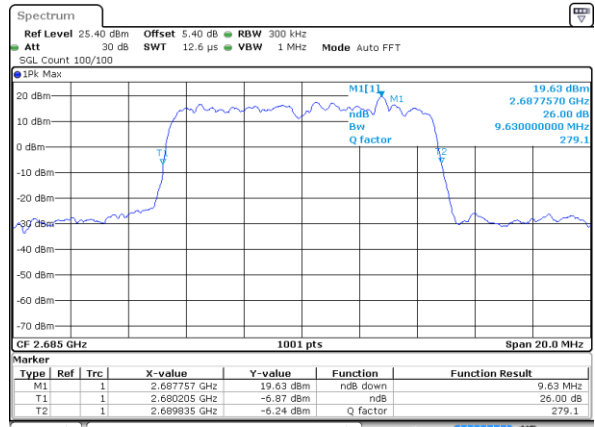
Date: 8 SEP 2018 10:51:40

Highest Channel / 10MHz / QPSK



Date: 8 SEP 2018 10:52:10

Highest Channel / 10MHz / 16QAM

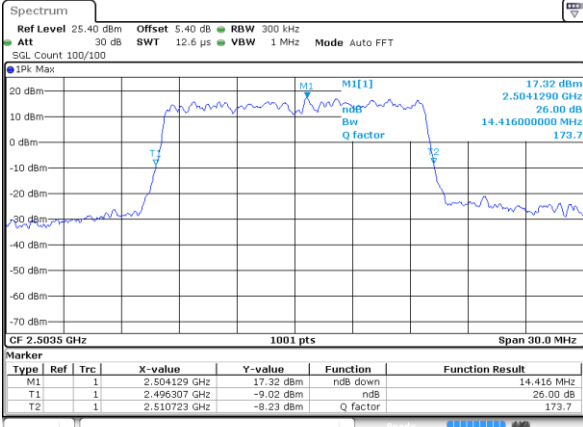


Date: 8 SEP 2018 10:52:20



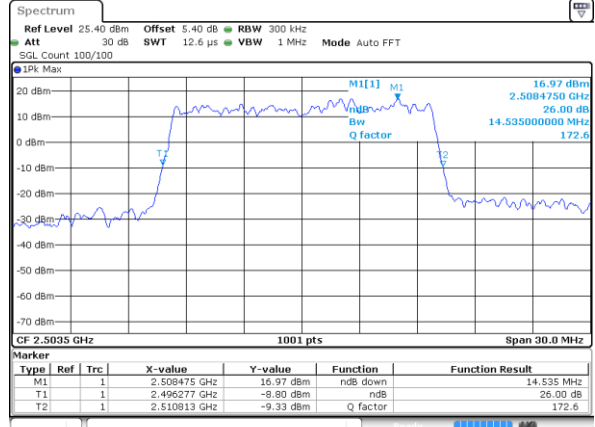
LTE Band 41

Lowest Channel / 15MHz / QPSK



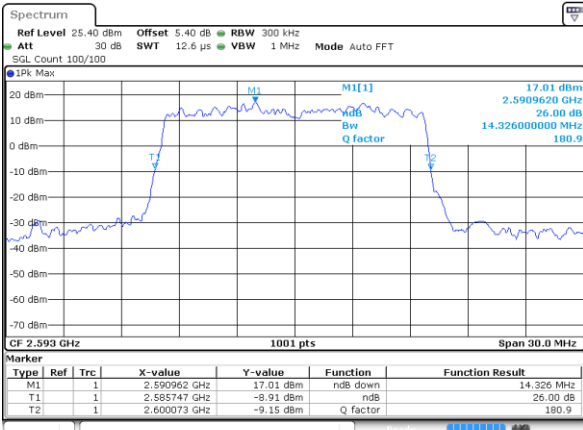
Date: 8 SEP 2018 10:52:50

Lowest Channel / 15MHz / 16QAM



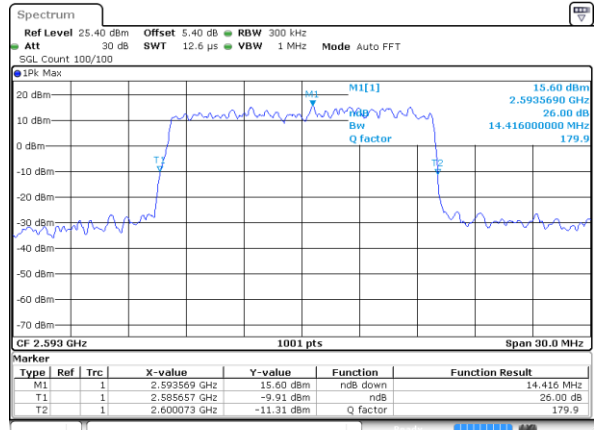
Date: 8 SEP 2018 10:53:00

Middle Channel / 15MHz / QPSK



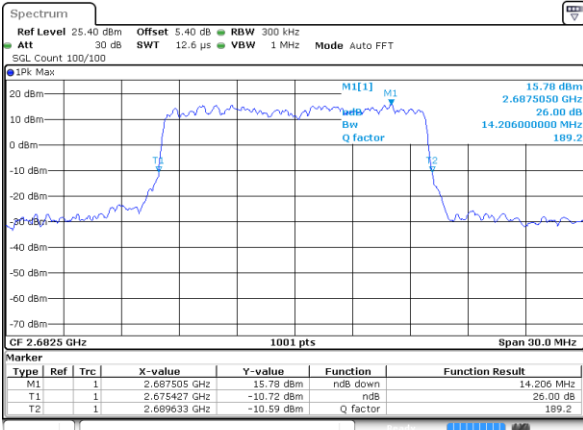
Date: 8 SEP 2018 10:53:30

Middle Channel / 15MHz / 16QAM



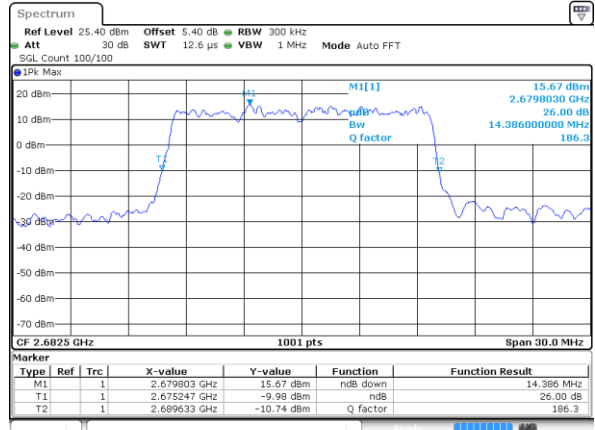
Date: 8 SEP 2018 10:53:40

Highest Channel / 15MHz / QPSK



Date: 8 SEP 2018 10:54:10

Highest Channel / 15MHz / 16QAM

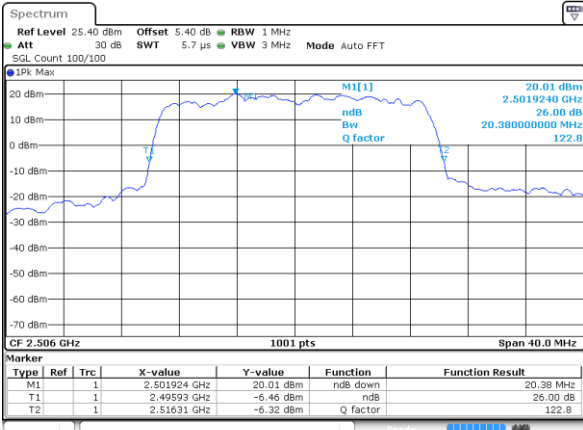


Date: 8 SEP 2018 10:54:20



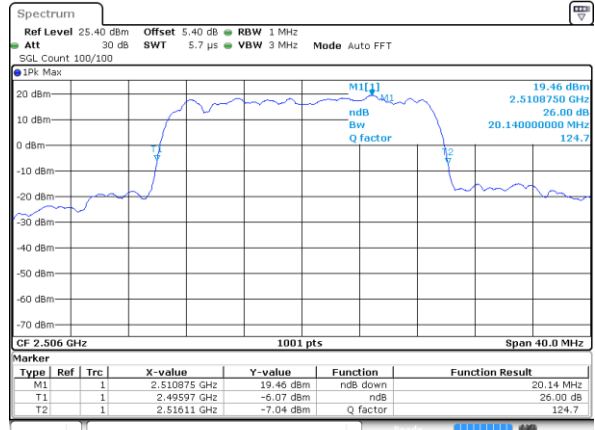
LTE Band 41

Lowest Channel / 20MHz / QPSK



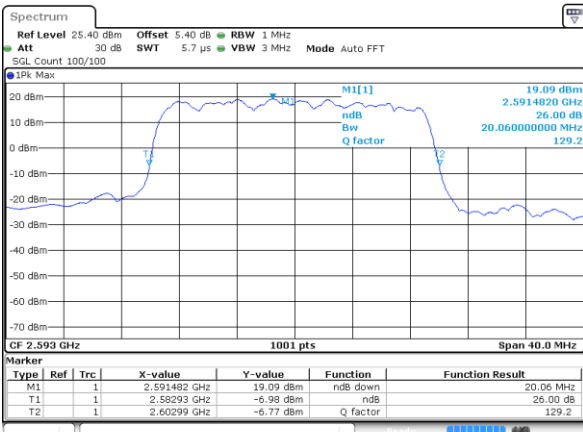
Date: 8 SEP 2018 10:54:50

Lowest Channel / 20MHz / 16QAM



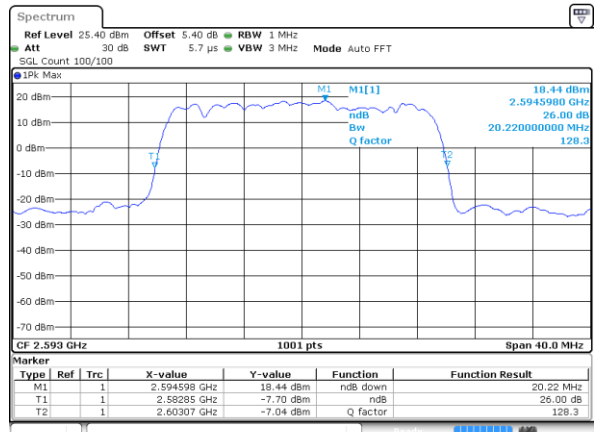
Date: 8 SEP 2018 10:54:59

Middle Channel / 20MHz / QPSK



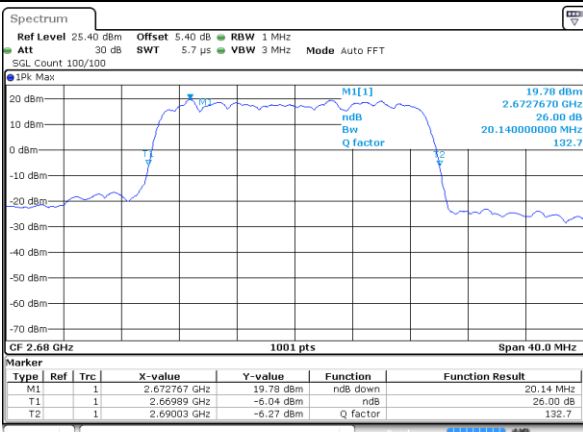
Date: 8 SEP 2018 10:55:29

Middle Channel / 20MHz / 16QAM



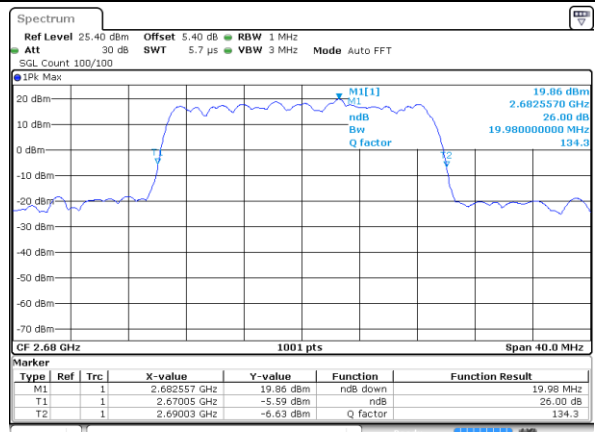
Date: 8 SEP 2018 10:55:39

Highest Channel / 20MHz / QPSK



Date: 8 SEP 2018 10:56:09

Highest Channel / 20MHz / 16QAM



Date: 8 SEP 2018 10:56:19