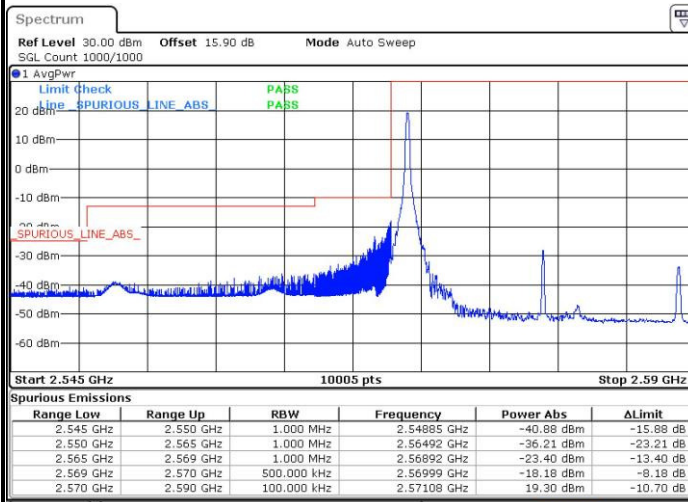


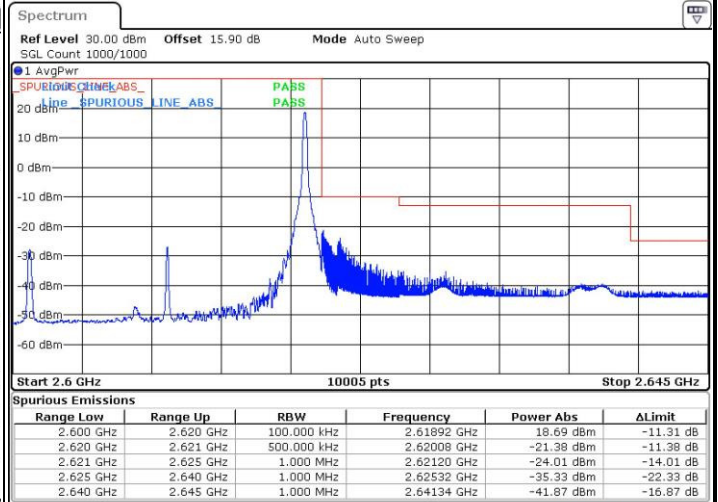


LTE Band 38 / 20MHz / 16QAM

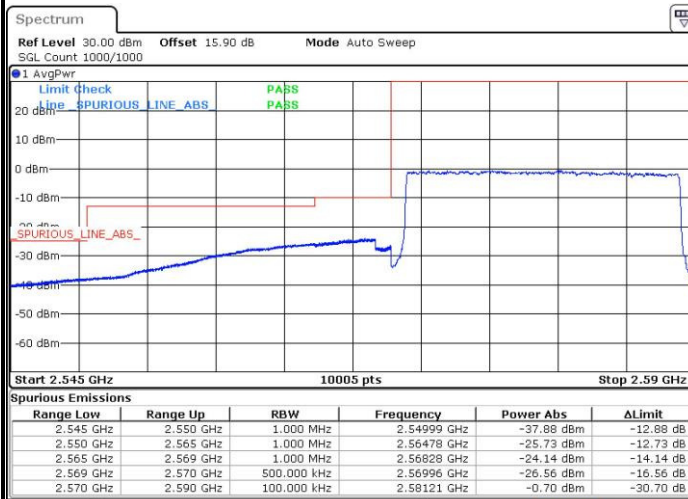
Lowest Band Edge / 1 RB



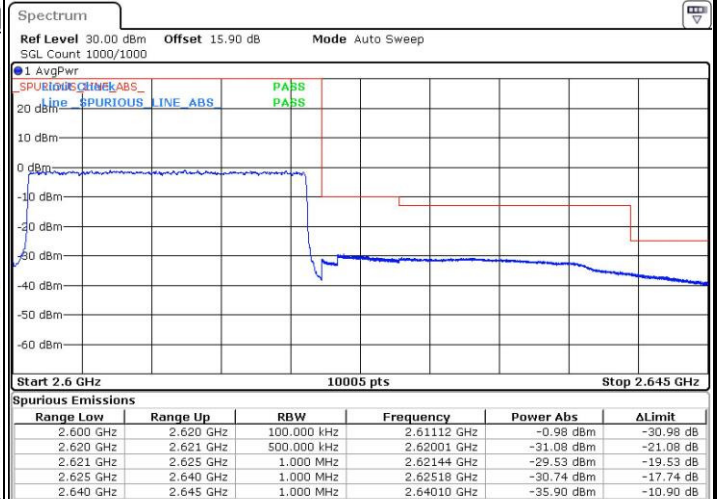
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



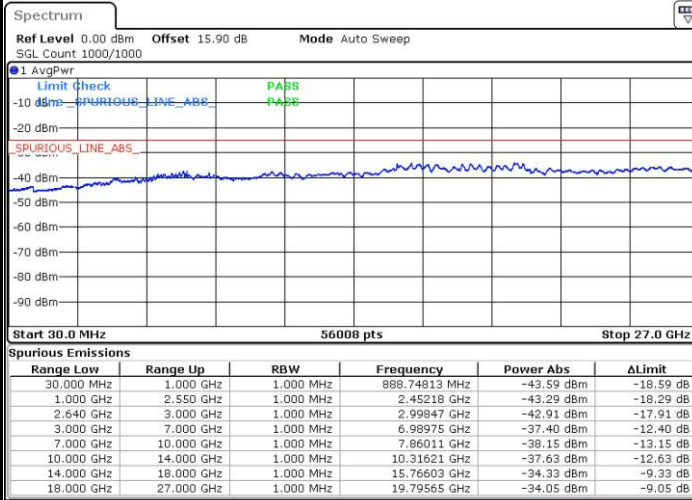


Conducted Spurious Emission



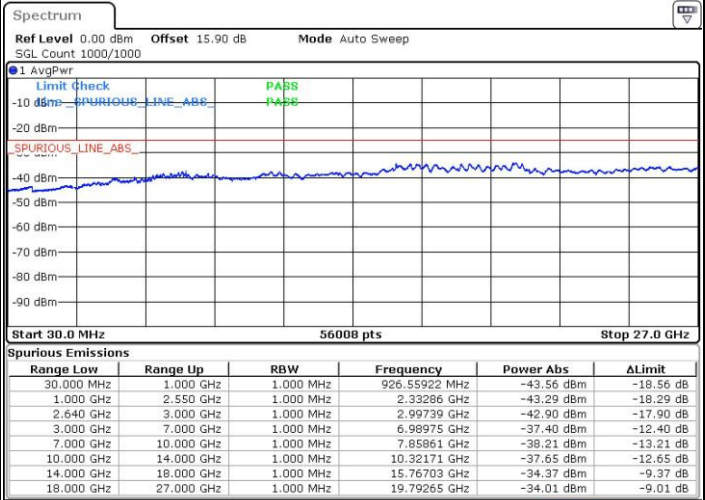
LTE Band 38 / 5MHz

Lowest Channel / QPSK



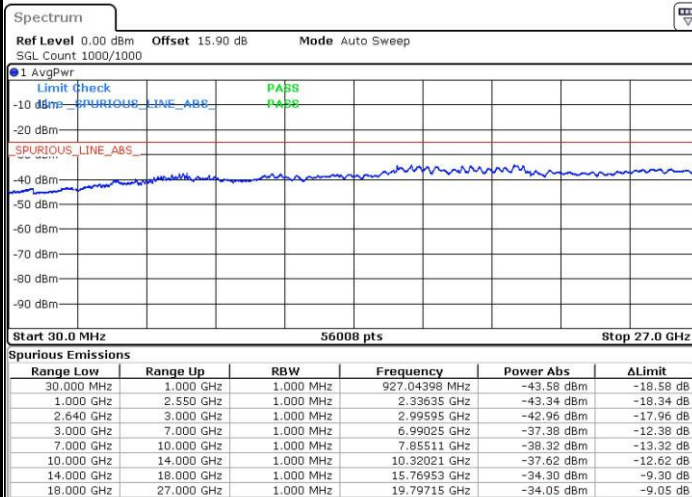
Date: 20 FEB 2017 23:34:44

Lowest Channel / 16QAM



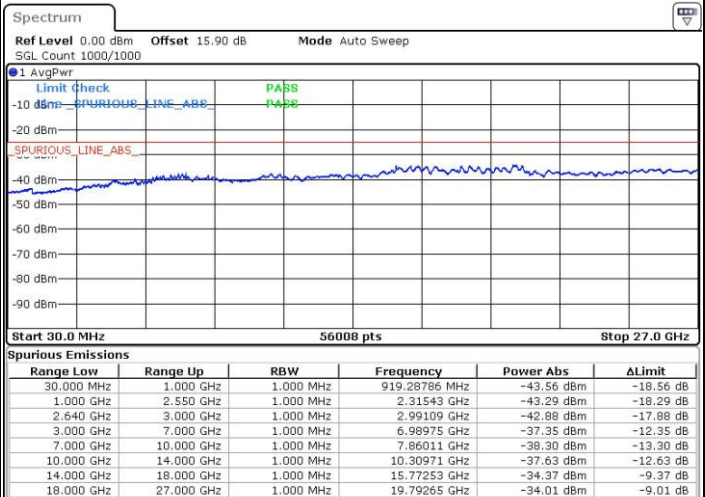
Date: 20 FEB 2017 23:40:58

Middle Channel / QPSK



Date: 20 FEB 2017 23:56:11

Middle Channel / 16QAM

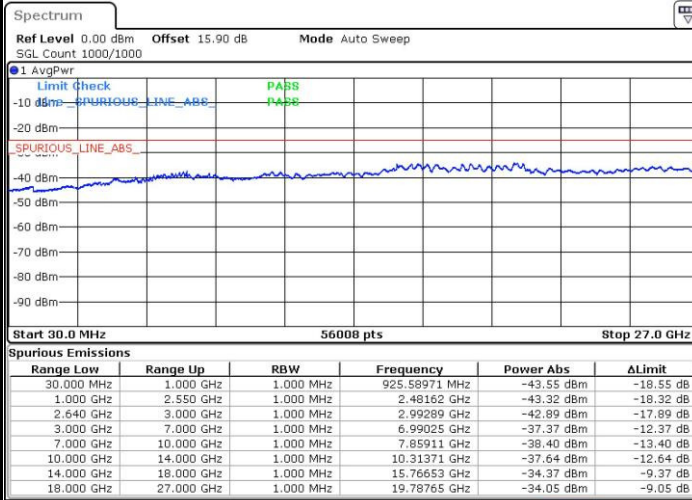


Date: 20 FEB 2017 23:49:00



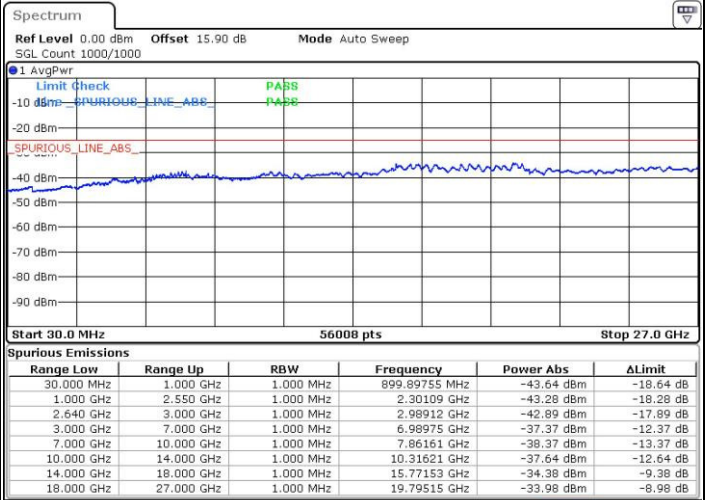
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 21 FEB 2017 00:03:10

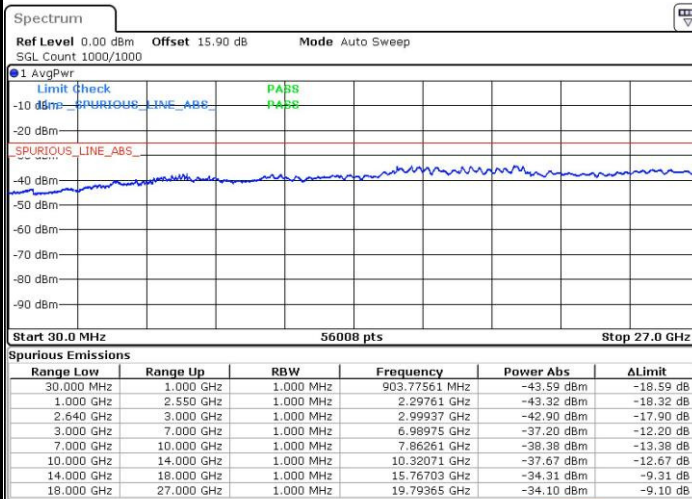
Highest Channel / 16QAM



Date: 21 FEB 2017 00:09:23

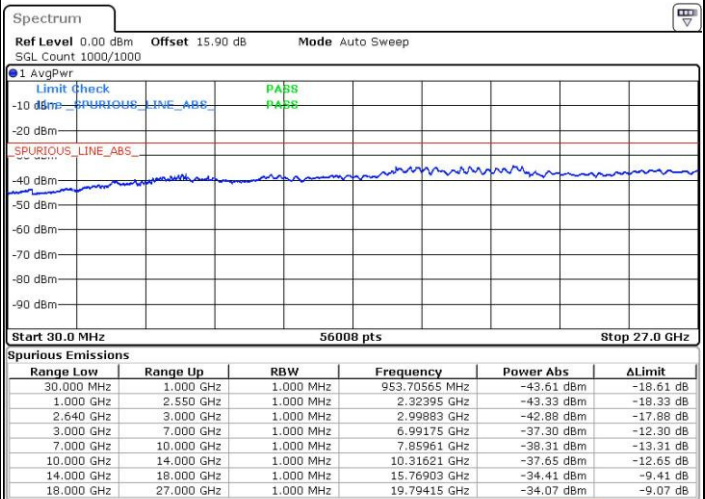
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 21 FEB 2017 00:23:48

Lowest Channel / 16QAM

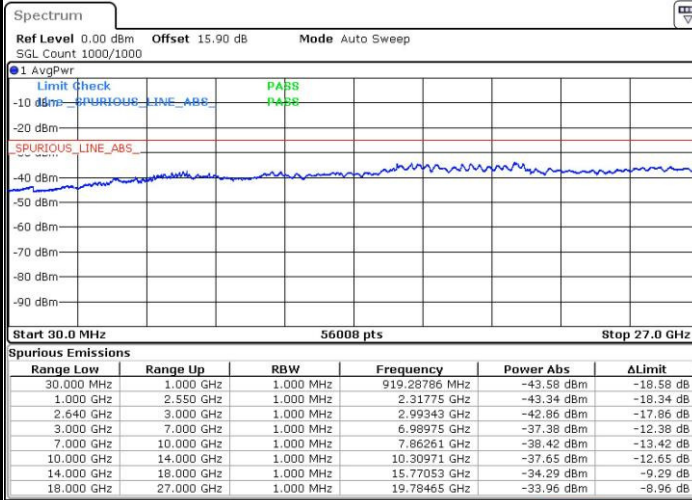


Date: 21 FEB 2017 00:16:18



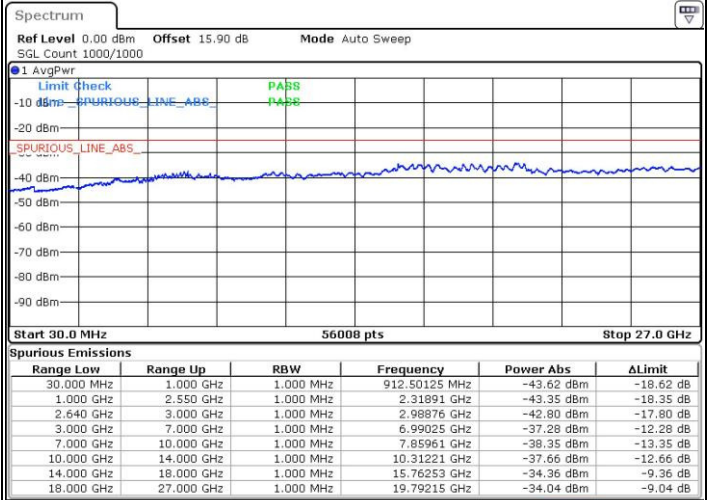
LTE Band 38 / 10MHz

Middle Channel / QPSK



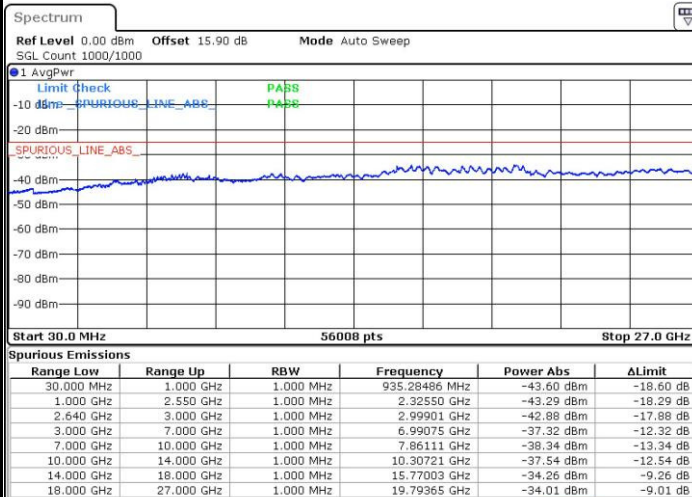
Date: 21 FEB 2017 00:33:53

Middle Channel / 16QAM



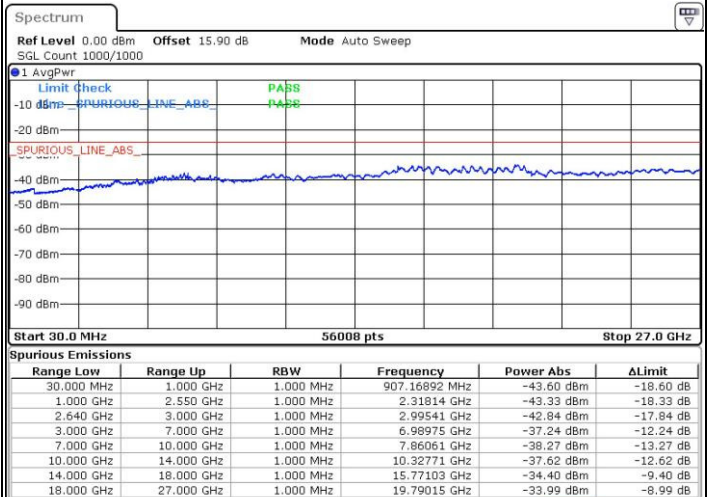
Date: 21 FEB 2017 00:41:28

Highest Channel / QPSK



Date: 21 FEB 2017 00:54:19

Highest Channel / 16QAM

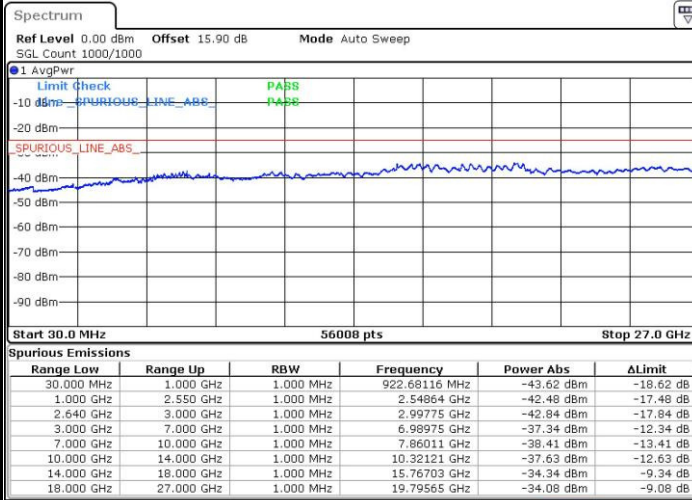


Date: 21 FEB 2017 00:47:48



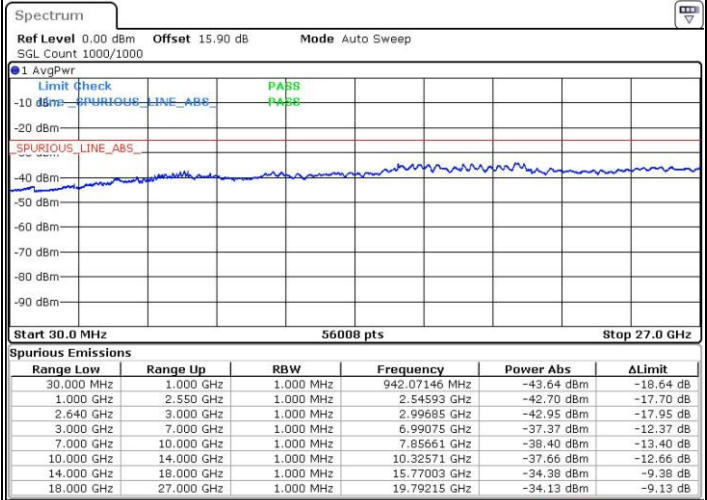
LTE Band 38 / 15MHz

Lowest Channel / QPSK



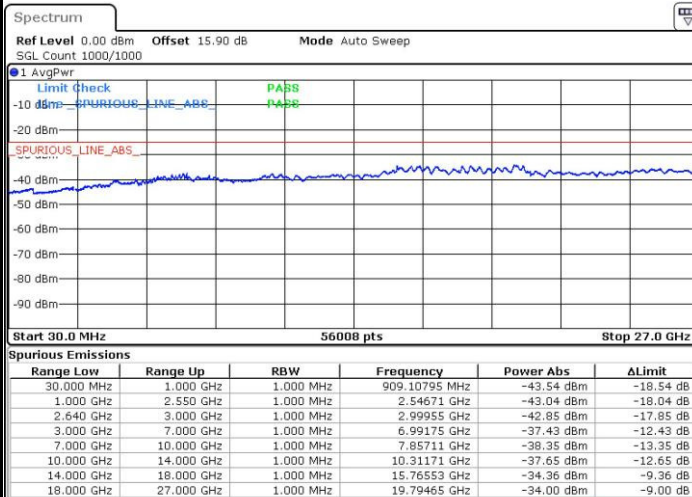
Date: 21.FEB.2017 01:00:37

Lowest Channel / 16QAM



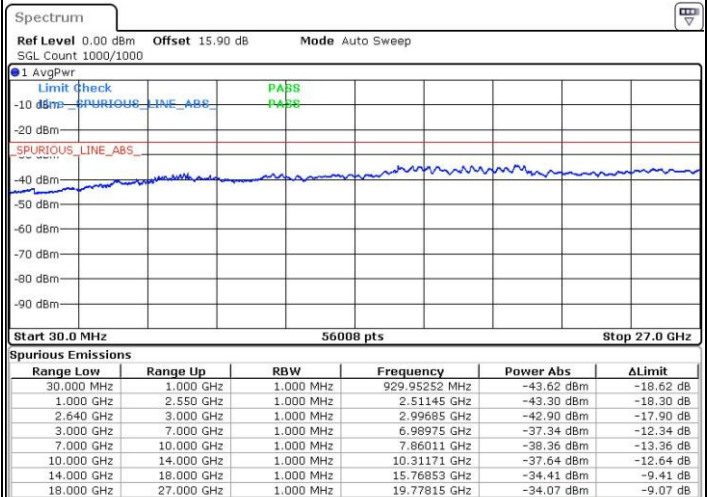
Date: 21.FEB.2017 01:10:15

Middle Channel / QPSK



Date: 21.FEB.2017 01:23:04

Middle Channel / 16QAM

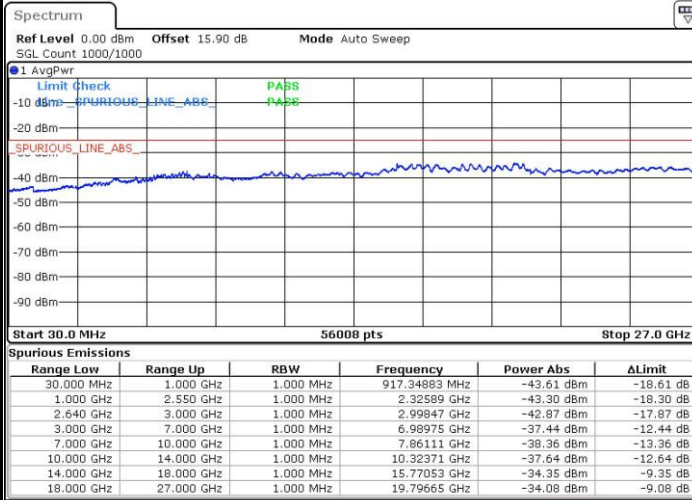


Date: 21.FEB.2017 01:16:48



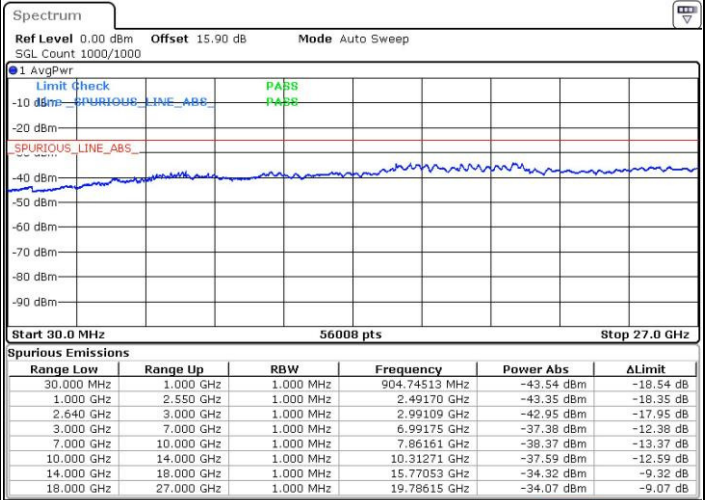
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 21 FEB 2017 01:29:19

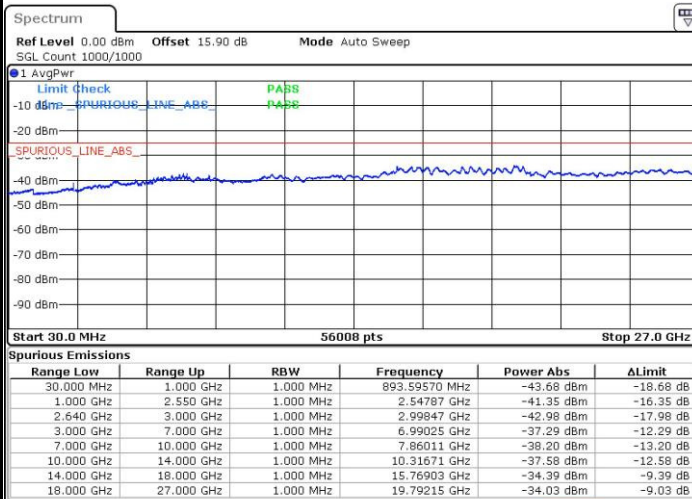
Highest Channel / 16QAM



Date: 21 FEB 2017 01:35:33

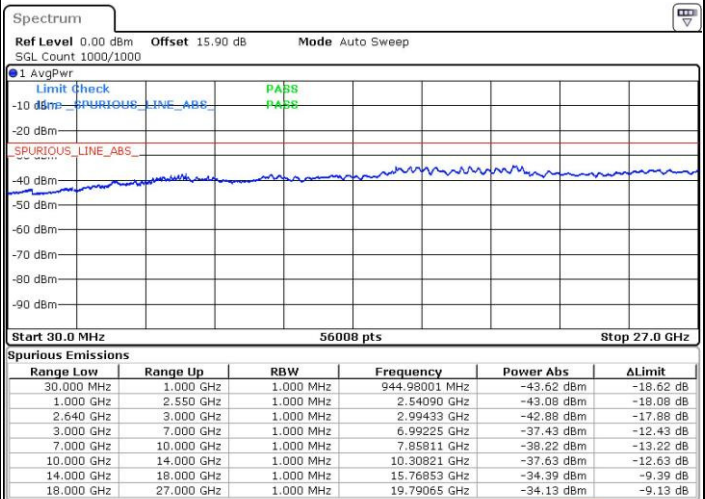
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 21 FEB 2017 09:33:34

Lowest Channel / 16QAM

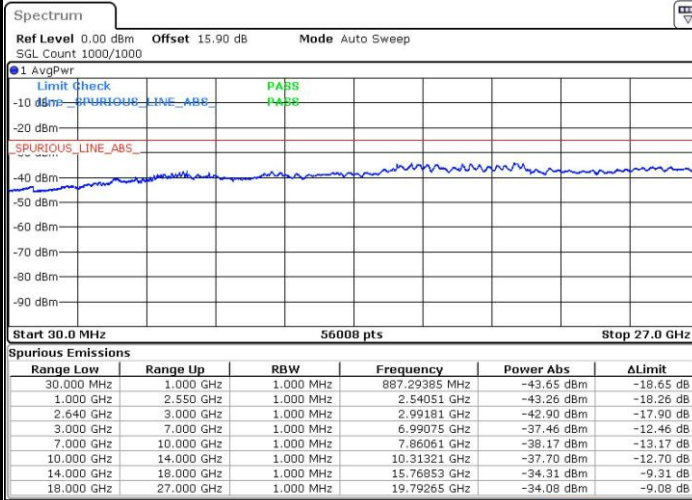


Date: 21 FEB 2017 09:26:54



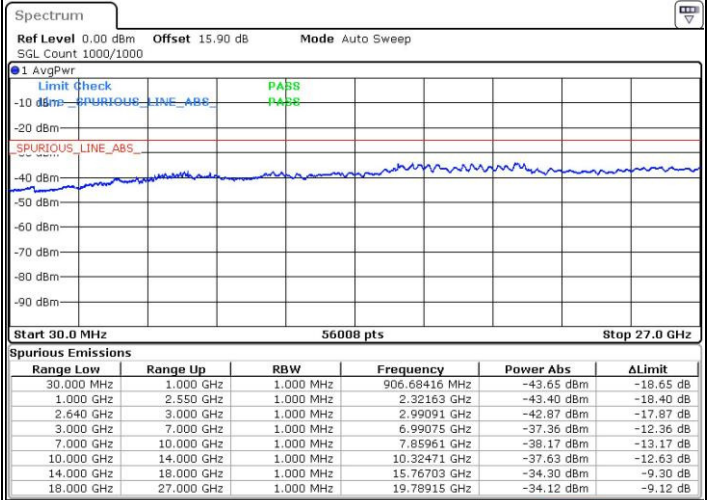
LTE Band 38 / 20MHz

Middle Channel / QPSK



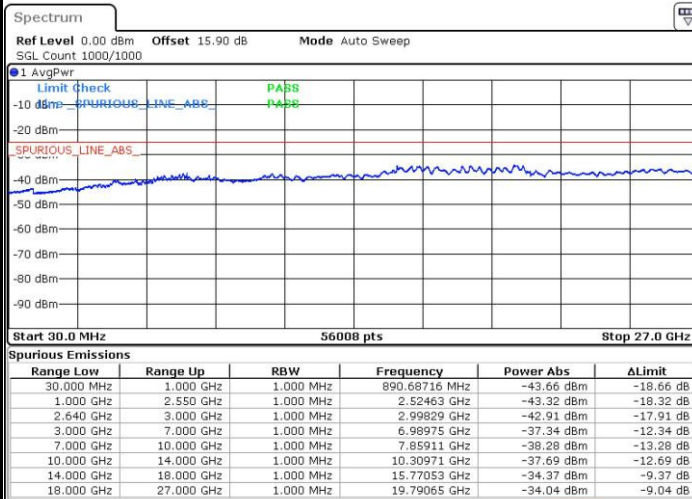
Date: 21 FEB 2017 09:40:58

Middle Channel / 16QAM



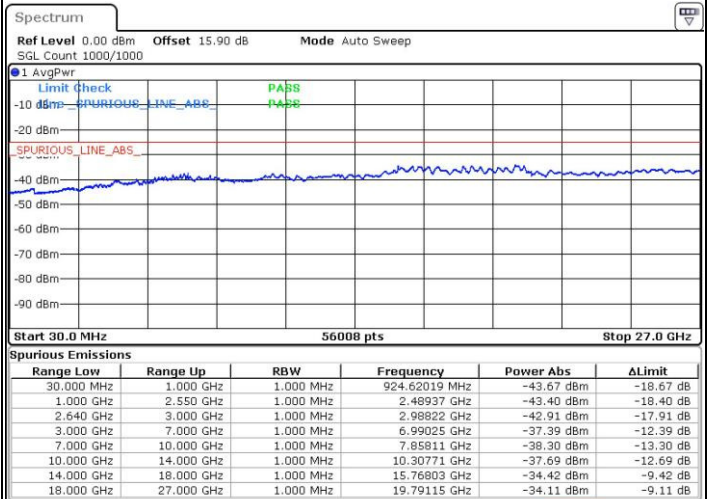
Date: 21 FEB 2017 09:49:00

Highest Channel / QPSK



Date: 21 FEB 2017 10:05:22

Highest Channel / 16QAM



Date: 21 FEB 2017 09:57:24

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	0.0022	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

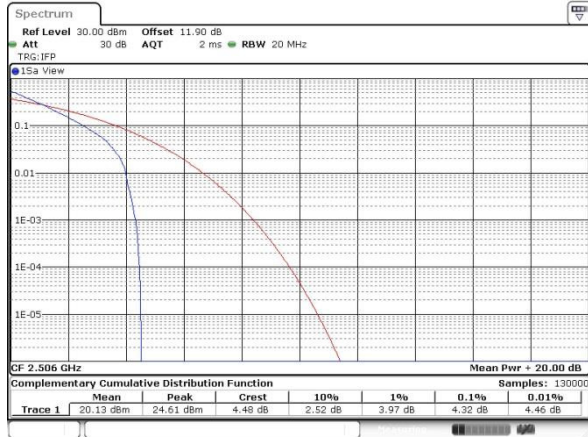
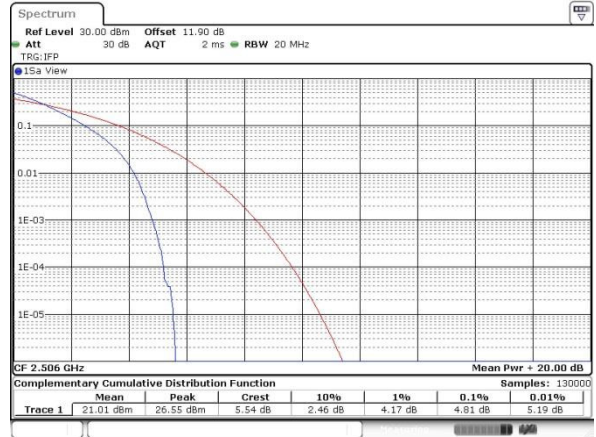
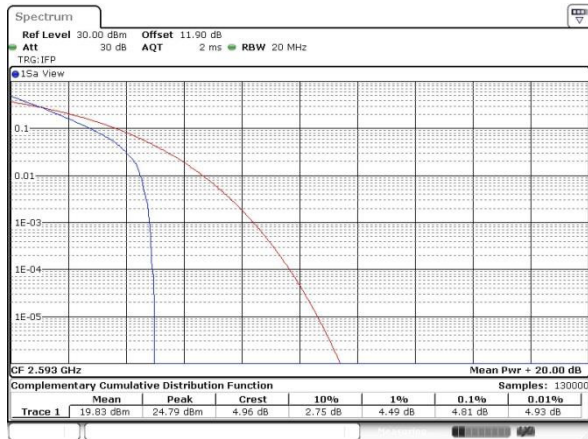
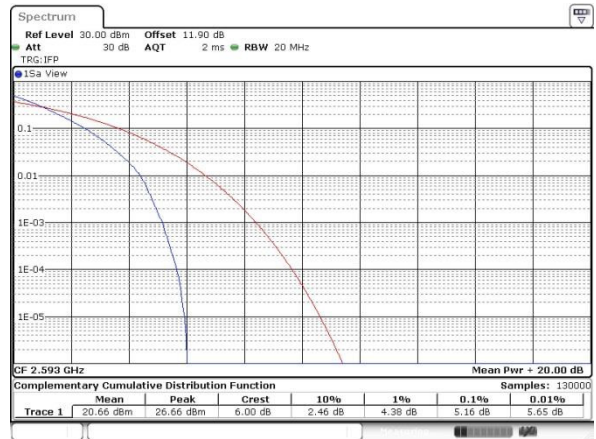
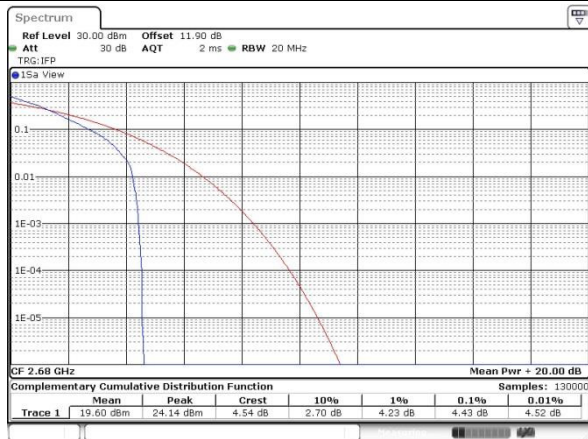
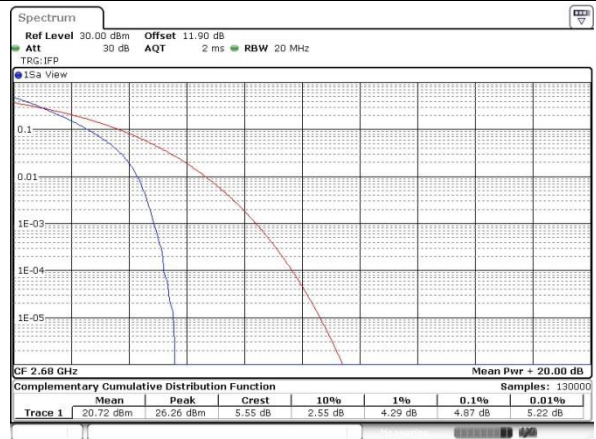
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

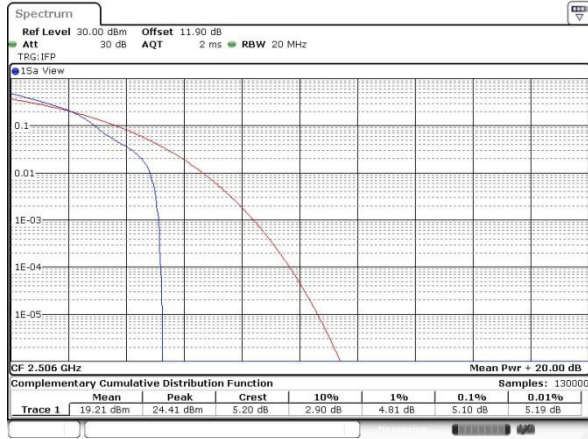
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.32	4.81	5.1	5.74	PASS
Middle CH	4.81	5.16	5.51	6.12	
Highest CH	4.43	4.87	5.36	5.88	

LTE Band 41 / 20MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


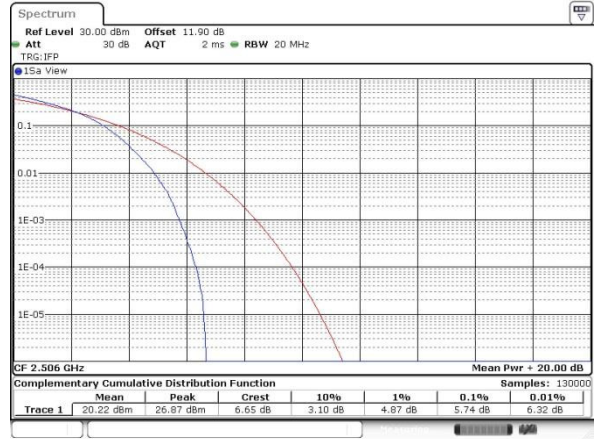


LTE Band 41 / 20MHz / 16QAM

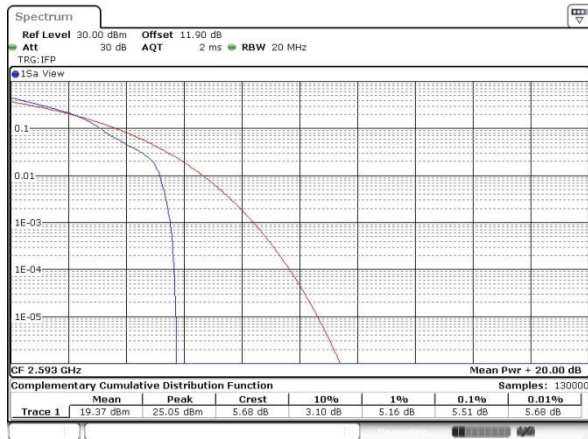
Lowest Channel / 1RB



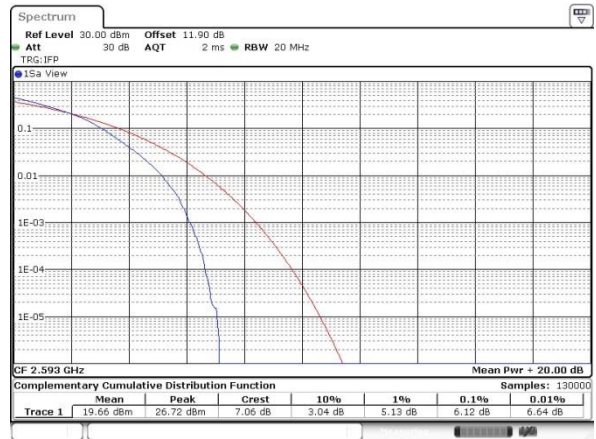
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.74	4.72	9.87	9.89	14.18	14.18	20.02	20.02
Middle CH	-	-	-	-	4.97	4.86	9.65	9.69	14.42	14.63	20.22	20.26
Highest CH	-	-	-	-	5.03	4.94	9.71	9.77	14.36	14.48	20.10	20.10



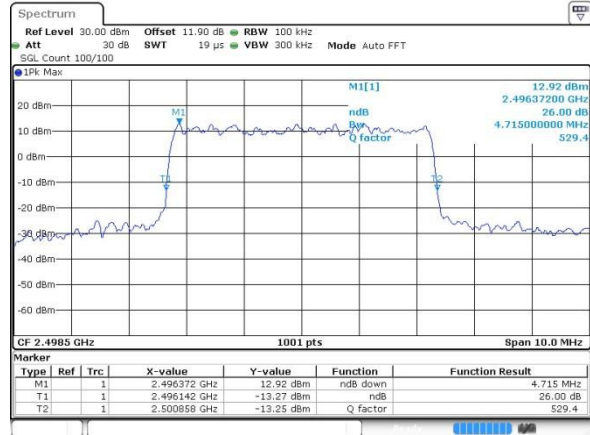
LTE Band 41

Lowest Channel / 5MHz / QPSK



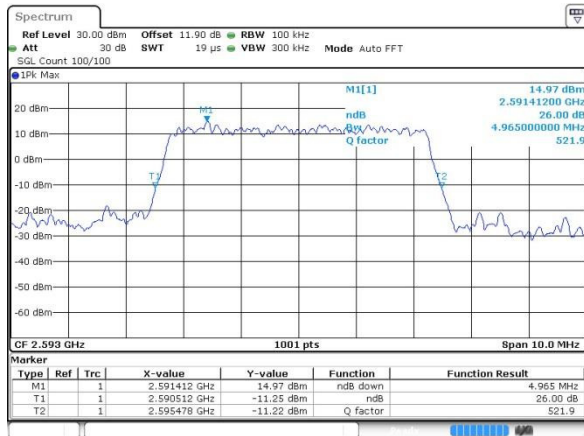
Date: 21 FEB 2017 11:09:40

Lowest Channel / 5MHz / 16QAM



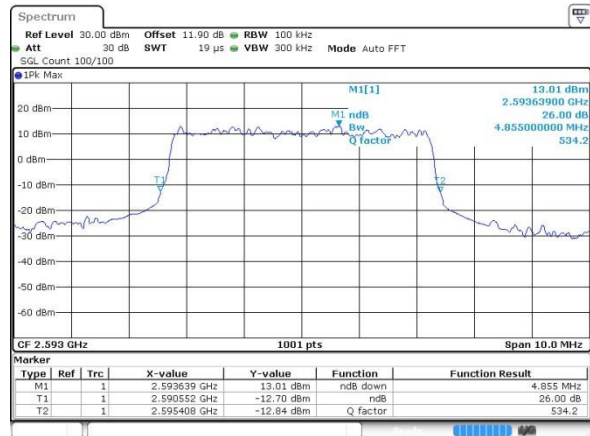
Date: 21 FEB 2017 11:09:50

Middle Channel / 5MHz / QPSK



Date: 21 FEB 2017 11:10:21

Middle Channel / 5MHz / 16QAM



Date: 21 FEB 2017 11:10:32

Highest Channel / 5MHz / QPSK



Date: 21 FEB 2017 11:11:03

Highest Channel / 5MHz / 16QAM

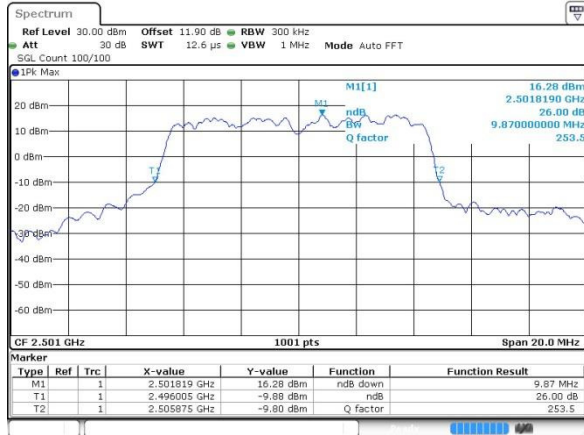


Date: 21 FEB 2017 11:11:13



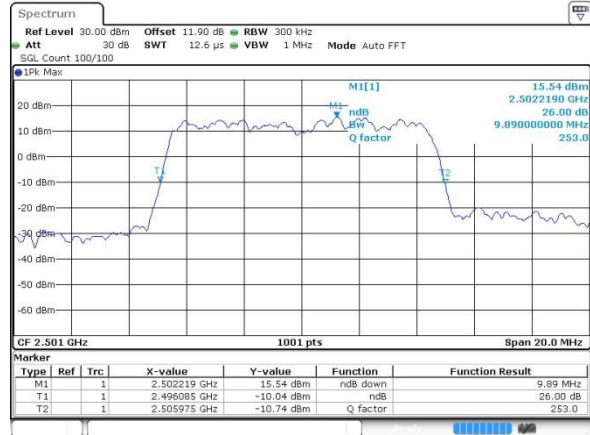
LTE Band 41

Lowest Channel / 10MHz / QPSK



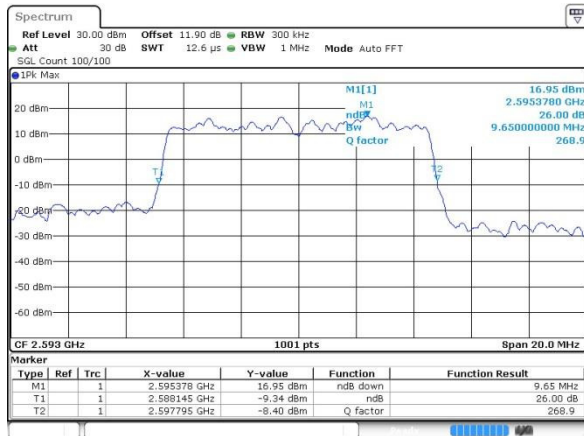
Date: 21 FEB 2017 11:11:45

Lowest Channel / 10MHz / 16QAM



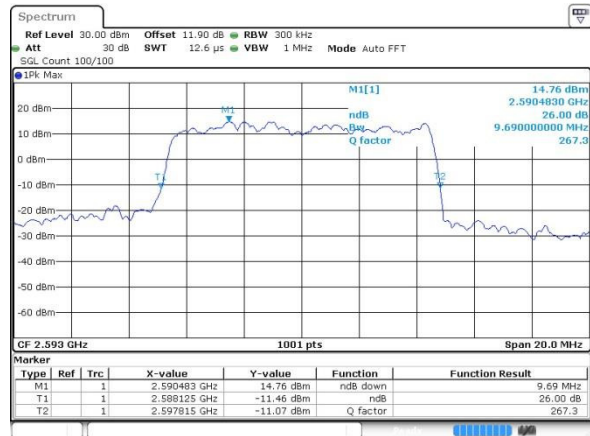
Date: 21 FEB 2017 11:11:55

Middle Channel / 10MHz / QPSK



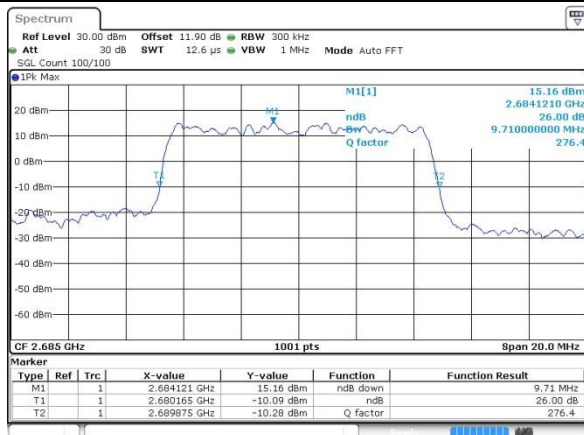
Date: 21 FEB 2017 11:12:26

Middle Channel / 10MHz / 16QAM



Date: 21 FEB 2017 11:12:36

Highest Channel / 10MHz / QPSK



Date: 21 FEB 2017 11:13:08

Highest Channel / 10MHz / 16QAM

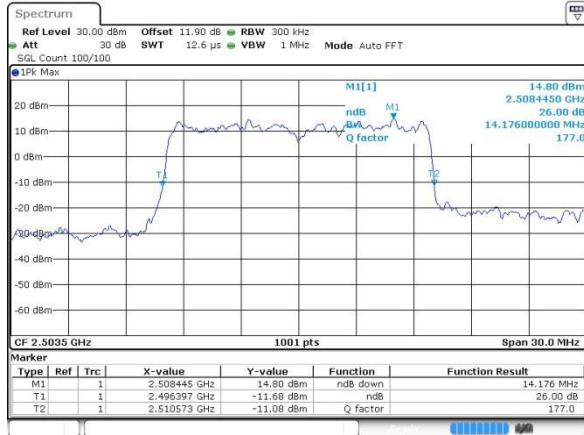


Date: 21 FEB 2017 11:13:18



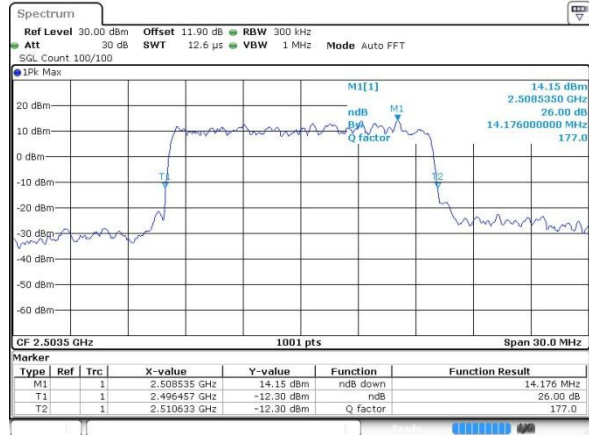
LTE Band 41

Lowest Channel / 15MHz / QPSK



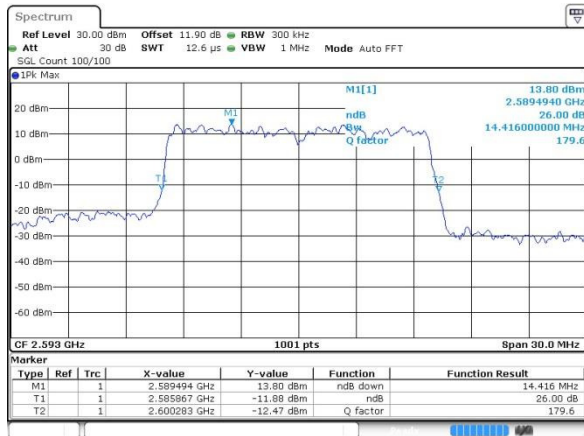
Date: 21 FEB 2017 11:13:49

Lowest Channel / 15MHz / 16QAM



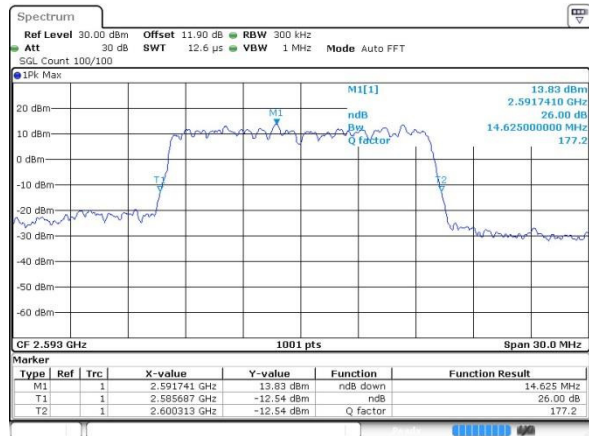
Date: 21 FEB 2017 11:13:59

Middle Channel / 15MHz / QPSK



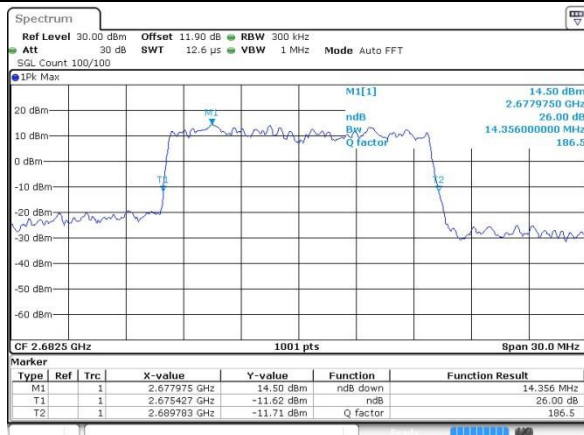
Date: 21 FEB 2017 11:14:31

Middle Channel / 15MHz / 16QAM



Date: 21 FEB 2017 11:14:41

Highest Channel / 15MHz / QPSK



Date: 21 FEB 2017 11:15:12

Highest Channel / 15MHz / 16QAM

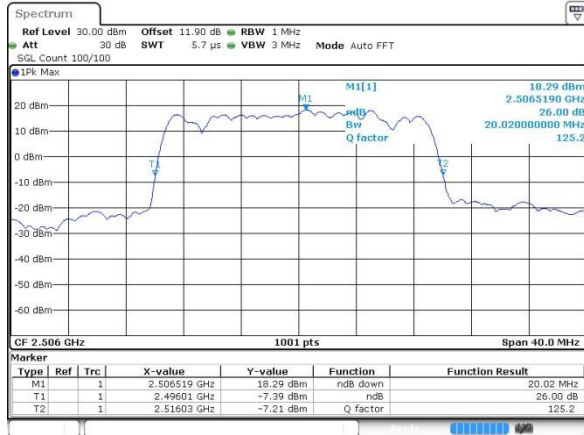


Date: 21 FEB 2017 11:15:23

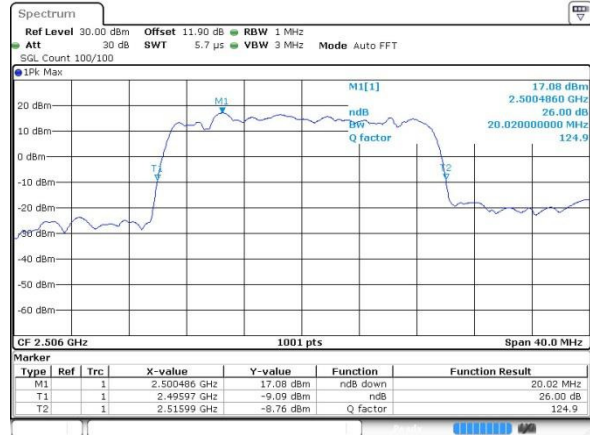


LTE Band 41

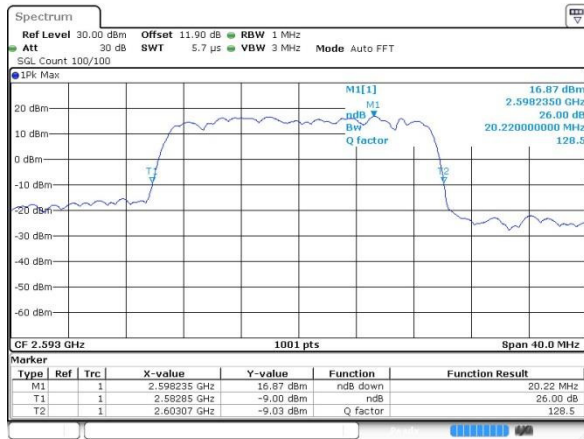
Lowest Channel / 20MHz / QPSK



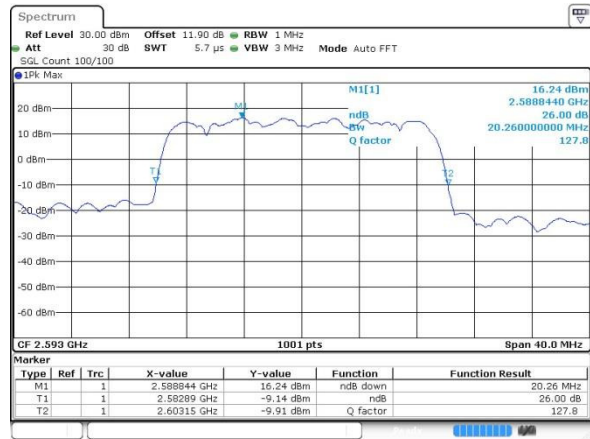
Lowest Channel / 20MHz / 16QAM



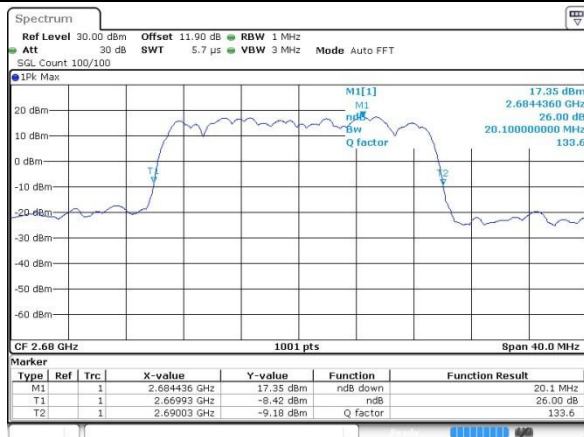
Middle Channel / 20MHz / QPSK



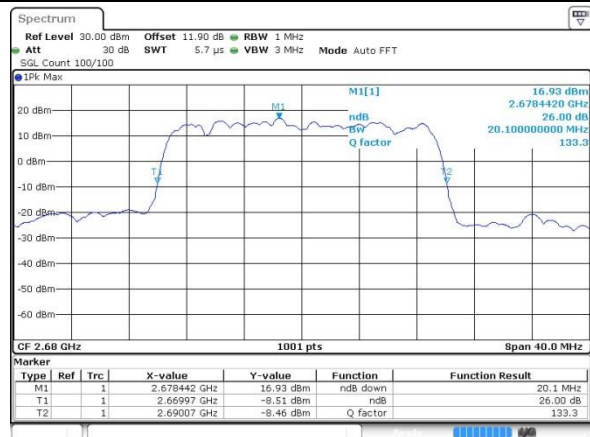
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



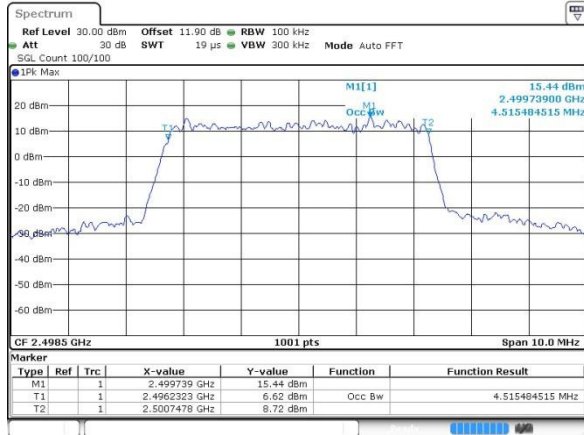
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.52	4.48	9.05	9.03	13.43	13.4	18.26	18.42
Middle CH	-	-	-	-	4.49	4.5	9.01	9.03	13.46	13.43	18.38	18.3
Highest CH	-	-	-	-	4.49	4.49	9.07	9.05	13.46	13.4	18.3	18.42



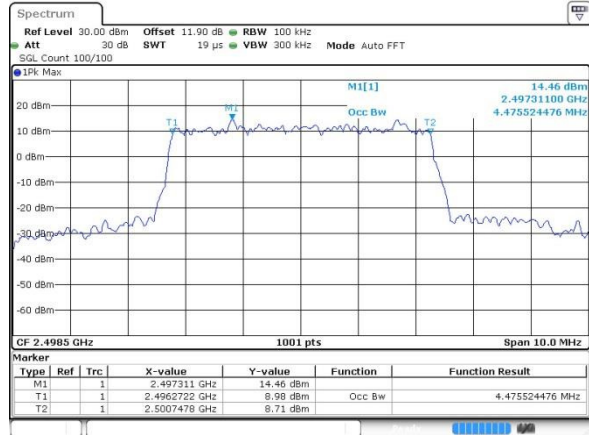
LTE Band 41

Lowest Channel / 5MHz / QPSK



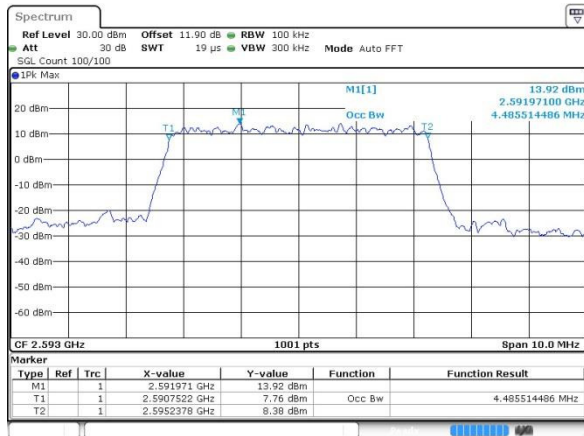
Date: 21 FEB 2017 11:09:19

Lowest Channel / 5MHz / 16QAM



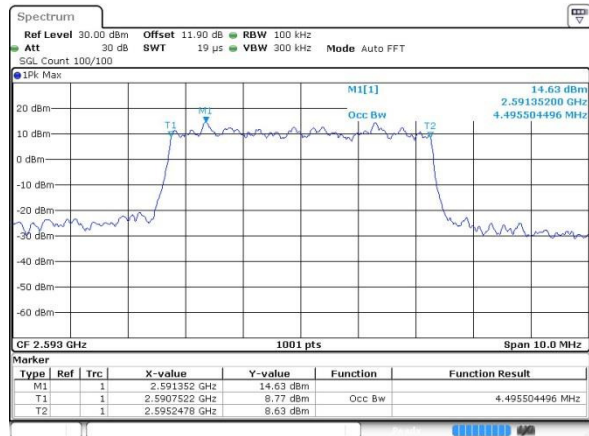
Date: 21 FEB 2017 11:09:29

Middle Channel / 5MHz / QPSK



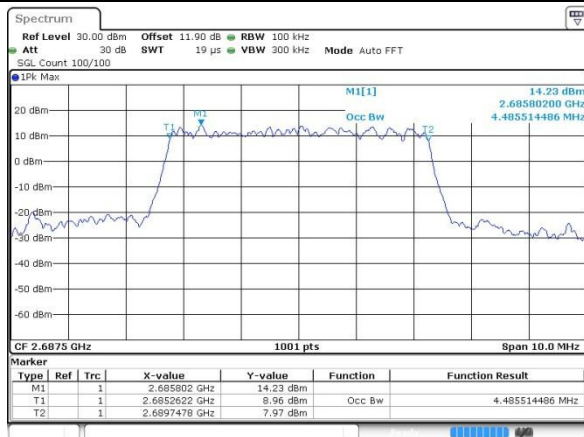
Date: 21 FEB 2017 11:10:01

Middle Channel / 5MHz / 16QAM



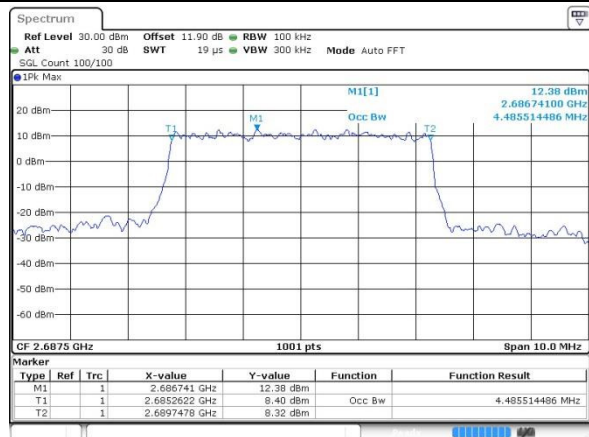
Date: 21 FEB 2017 11:10:11

Highest Channel / 5MHz / QPSK



Date: 21 FEB 2017 11:10:42

Highest Channel / 5MHz / 16QAM

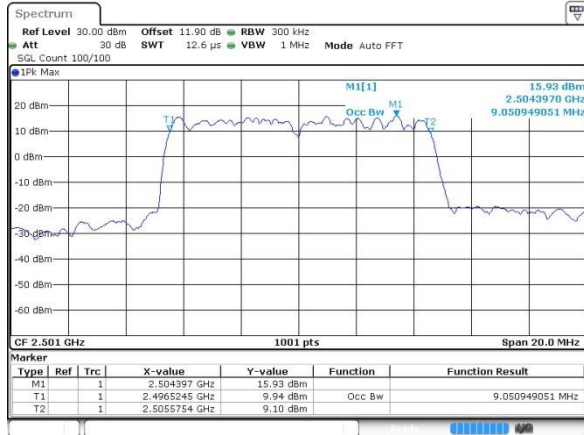


Date: 21 FEB 2017 11:10:53

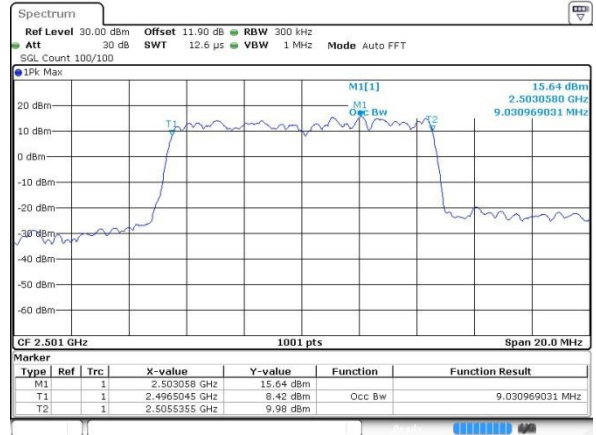


LTE Band 41

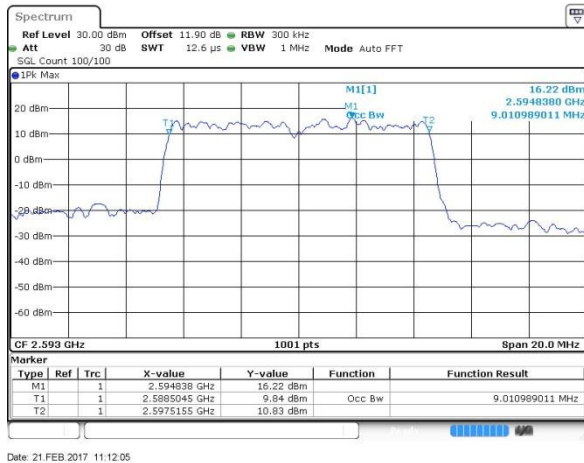
Lowest Channel / 10MHz / QPSK



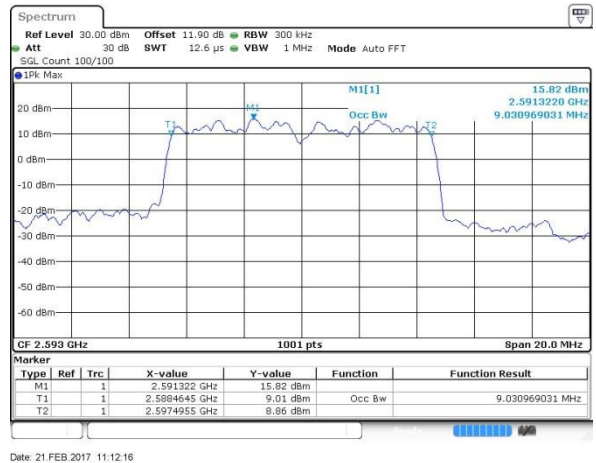
Lowest Channel / 10MHz / 16QAM



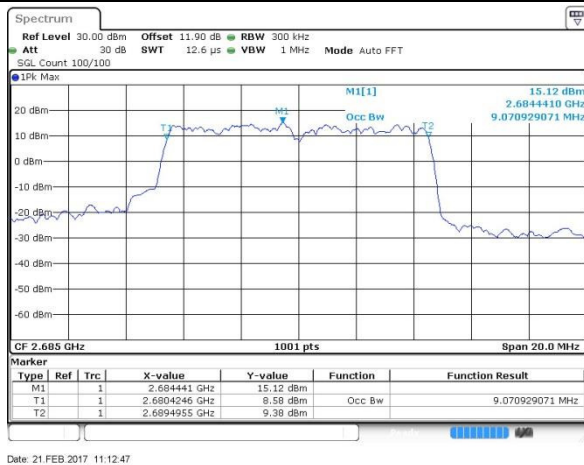
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

