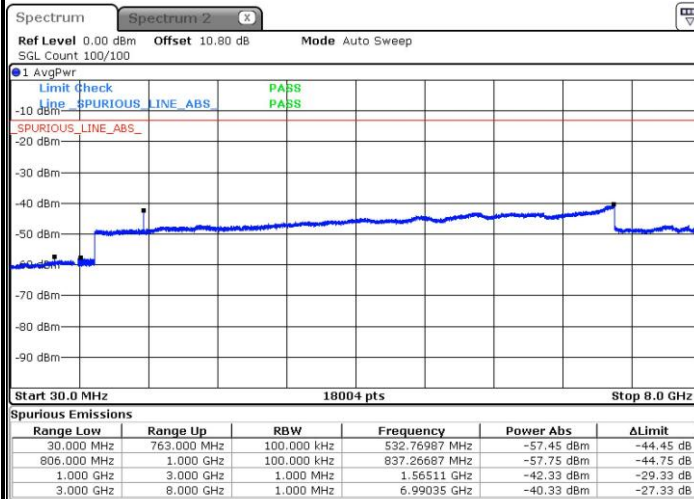




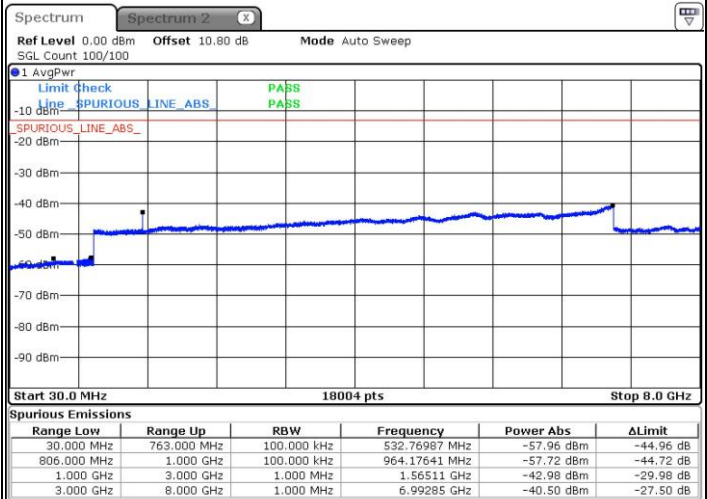
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 6.NOV.2016 19:23:09

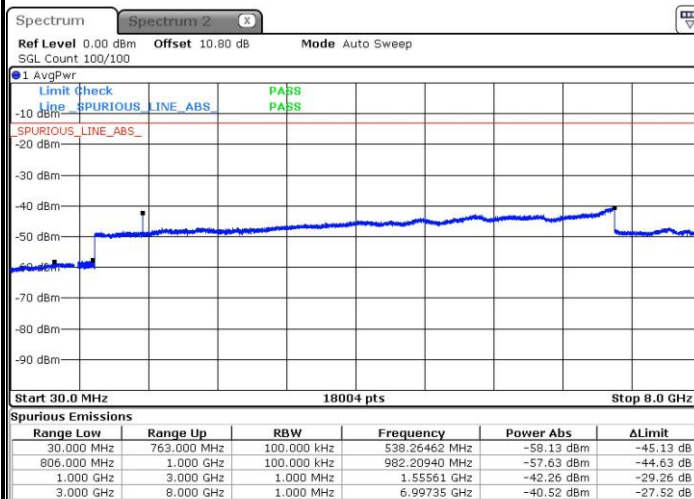
Highest Channel / 16QAM



Date: 6.NOV.2016 19:24:06

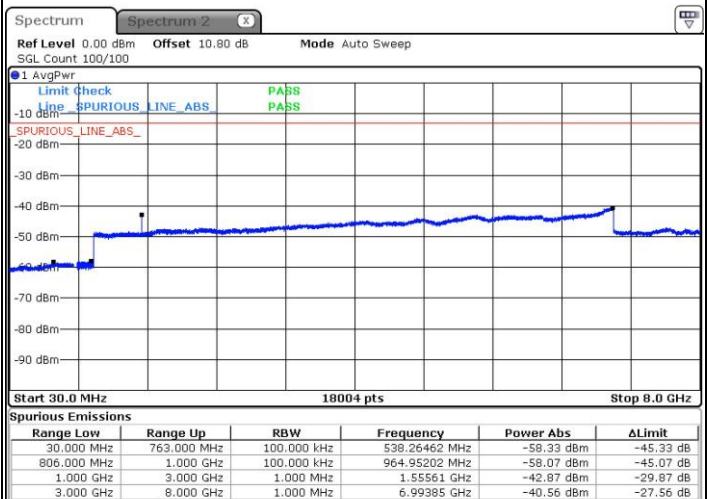
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 6.NOV.2016 19:36:43

Middle Channel / 16QAM



Date: 6.NOV.2016 19:35:47

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	0.0013	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0205	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0191	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0194	

Note:

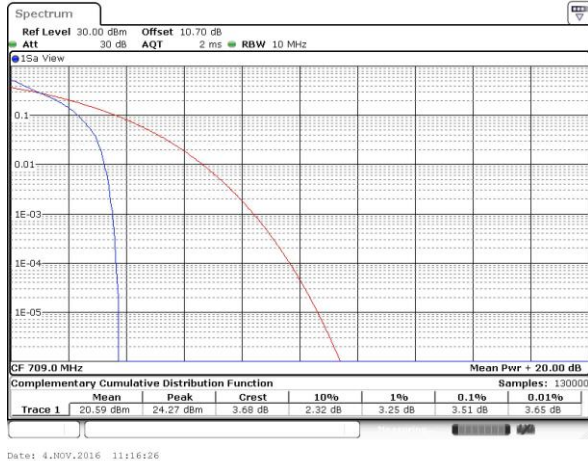
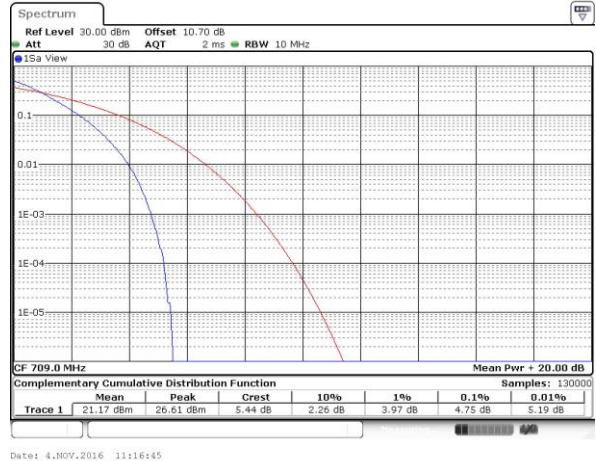
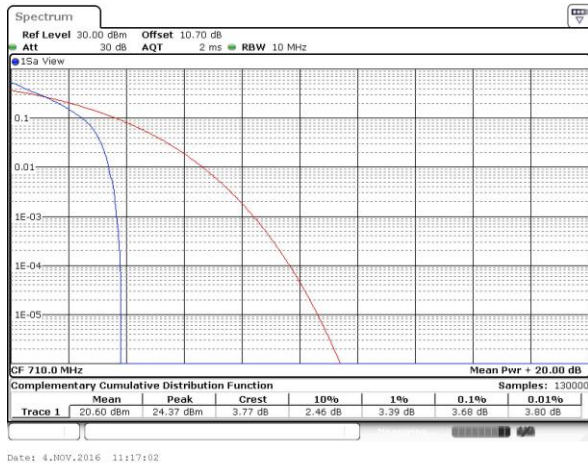
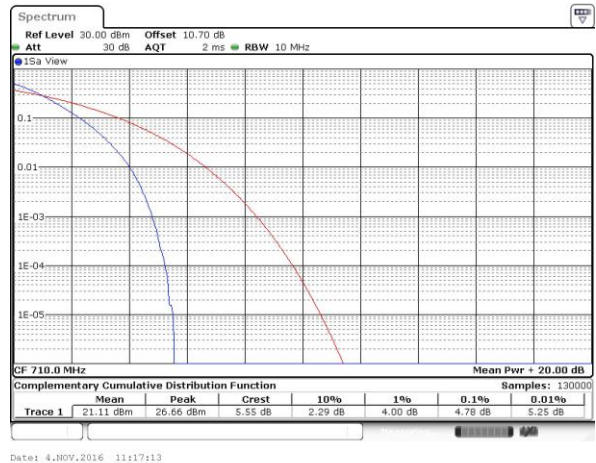
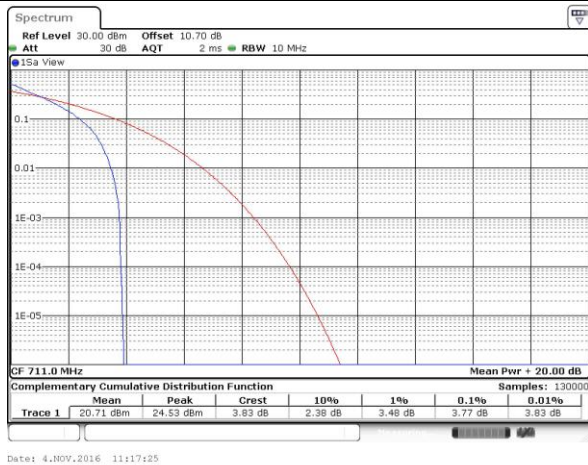
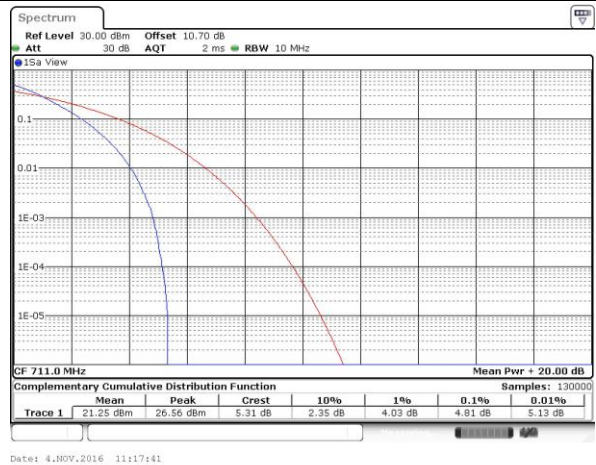
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

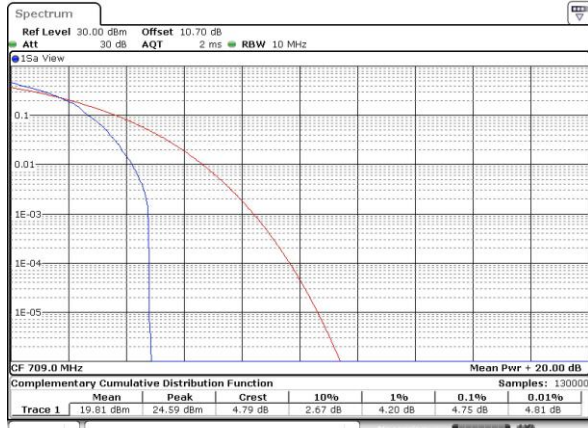
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.75	4.75	5.51	PASS
Middle CH	3.68	4.78	4.78	5.71	
Highest CH	3.77	4.81	4.7	5.62	

LTE Band 17 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel/ 1RB

Middle Channel / Full RB

Highest Channel/ 1RB

Highest Channel / Full RB


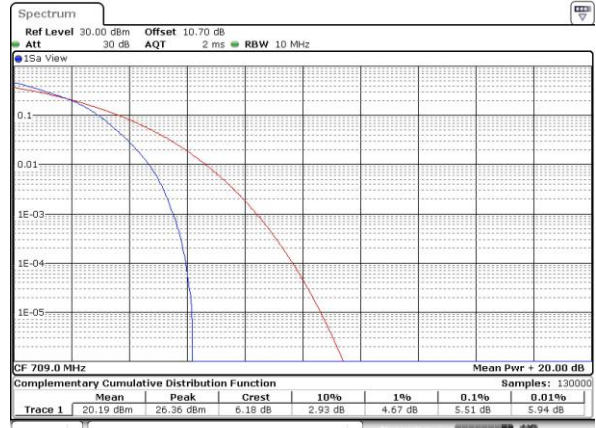


LTE Band 17 / 10MHz / 16QAM

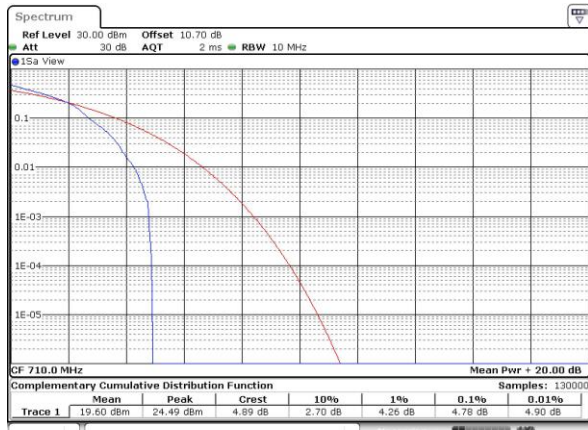
Lowest Channel / 1RB



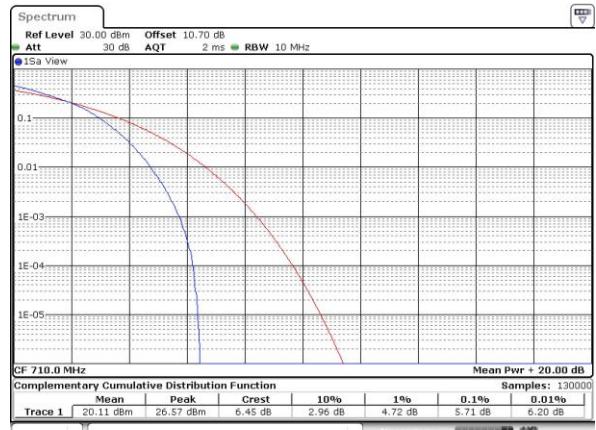
Lowest Channel / Full RB



Middle Channel/ 1RB



Middle Channel / Full RB



Highest Channel/ 1RB



Highest Channel / Full RB





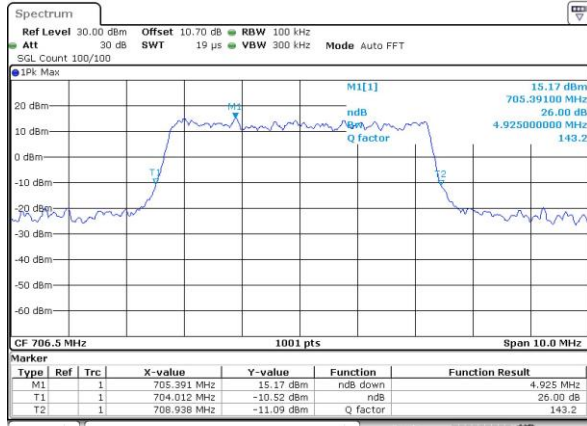
26dB Bandwidth

Mode	LTE Band 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	-	-	-	-	4.93	4.90	9.81	10.01	-	-	-	-
Middle CH	-	-	-	-	4.96	4.86	9.93	9.91	-	-	-	-
Highest CH	-	-	-	-	4.92	5.01	9.83	9.71	-	-	-	-



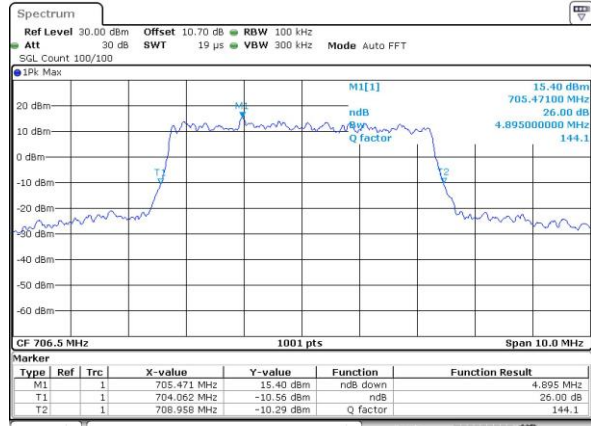
LTE Band 17

Lowest Channel / 5MHz / QPSK



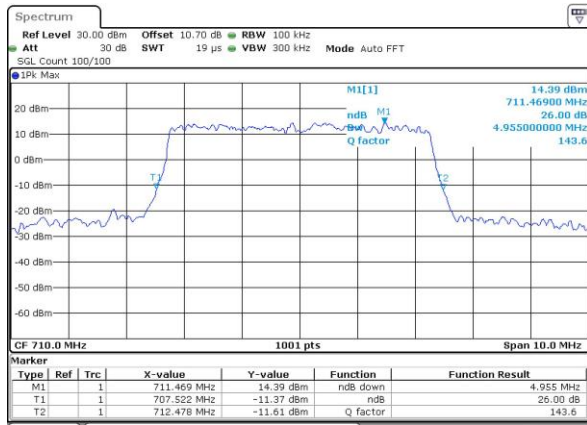
Date: 4.NOV.2016 10:27:36

Lowest Channel / 5MHz / 16QAM



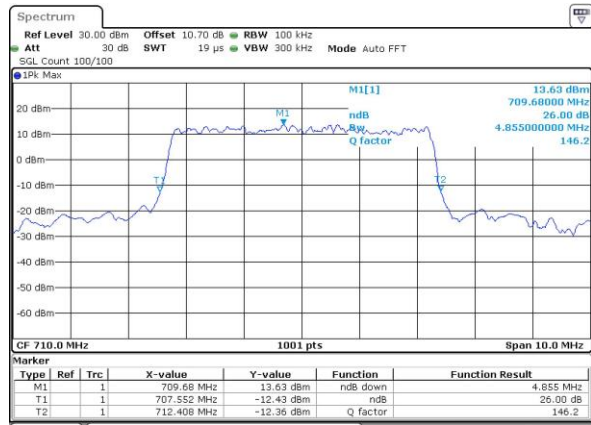
Date: 4.NOV.2016 10:27:48

Middle Channel / 5MHz / QPSK



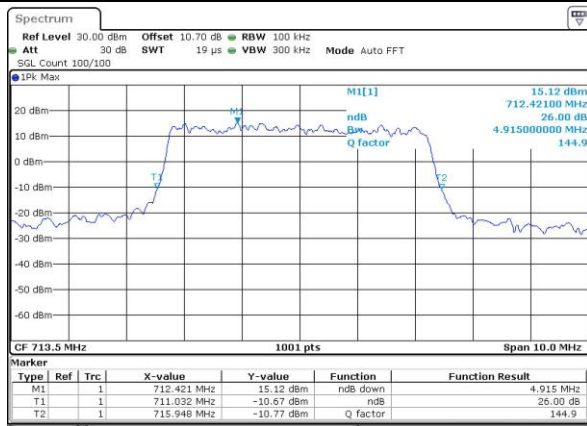
Date: 4.NOV.2016 10:34:58

Middle Channel / 5MHz / 16QAM



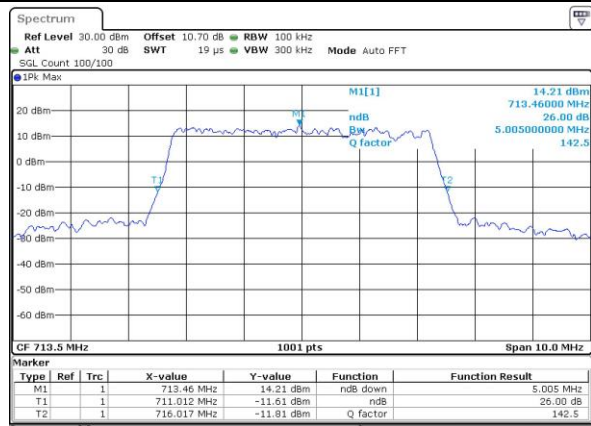
Date: 4.NOV.2016 10:35:09

Highest Channel / 5MHz / QPSK



Date: 4.NOV.2016 10:37:41

Highest Channel / 5MHz / 16QAM

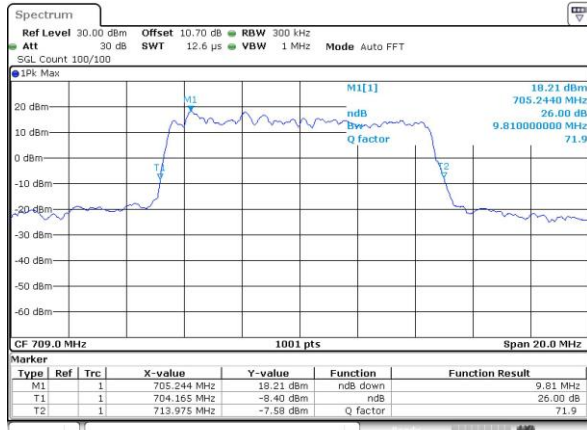


Date: 4.NOV.2016 10:37:53



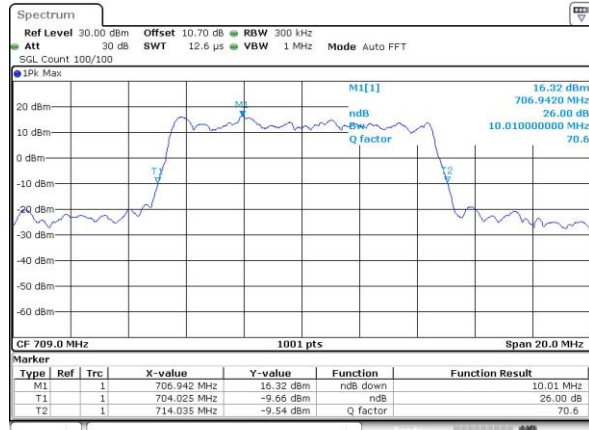
LTE Band 17

Lowest Channel / 10MHz / QPSK



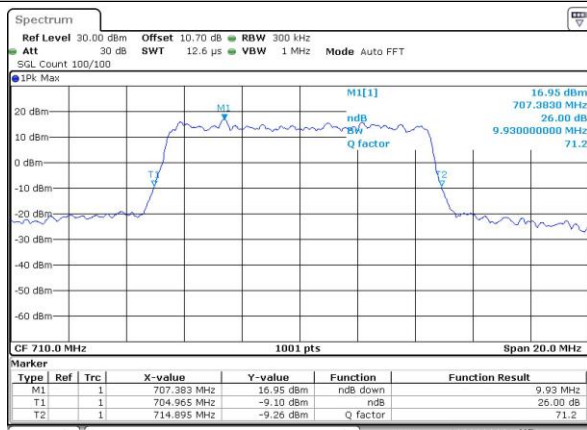
Date: 4.NOV.2016 10:45:03

Lowest Channel / 10MHz / 16QAM



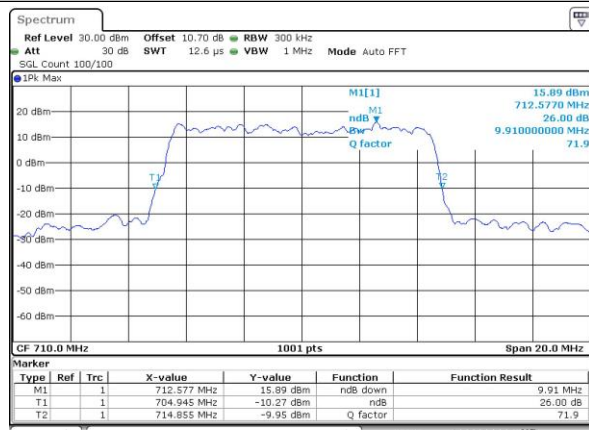
Date: 4.NOV.2016 10:45:14

Middle Channel / 10MHz / QPSK



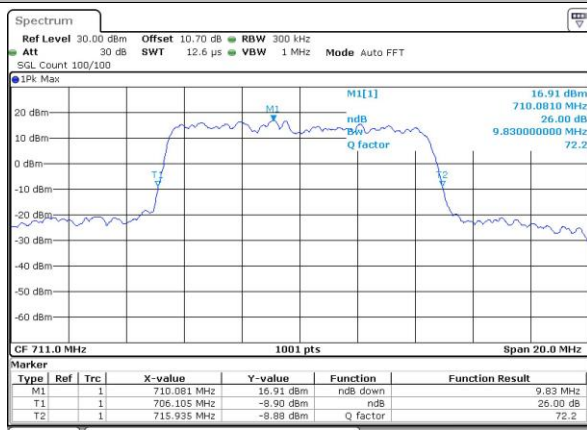
Date: 4.NOV.2016 10:52:24

Middle Channel / 10MHz / 16QAM



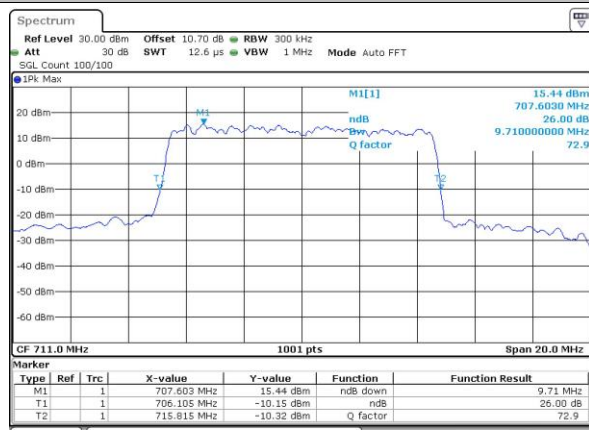
Date: 4.NOV.2016 10:52:36

Highest Channel / 10MHz / QPSK



Date: 4.NOV.2016 10:55:08

Highest Channel / 10MHz / 16QAM



Date: 4.NOV.2016 10:55:19



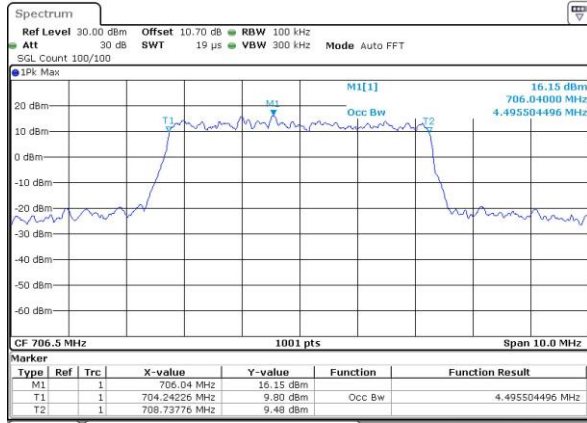
Occupied Bandwidth

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	-	-	-	-	4.5	4.49	9.05	9.07	-	-	-	-
Middle CH	-	-	-	-	4.48	4.52	9.05	9.05	-	-	-	-
Highest CH	-	-	-	-	4.51	4.54	9.01	8.99	-	-	-	-



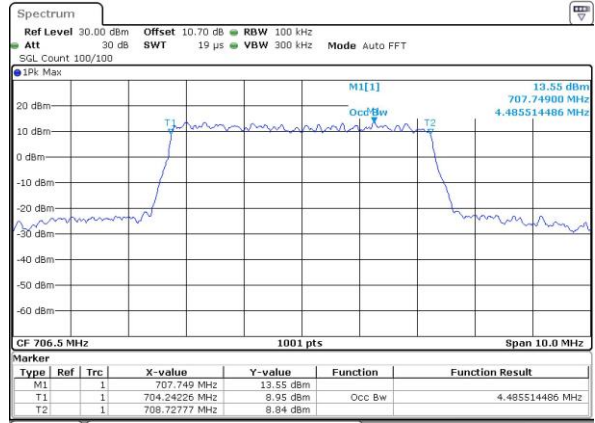
LTE Band 17

Lowest Channel / 5MHz / QPSK



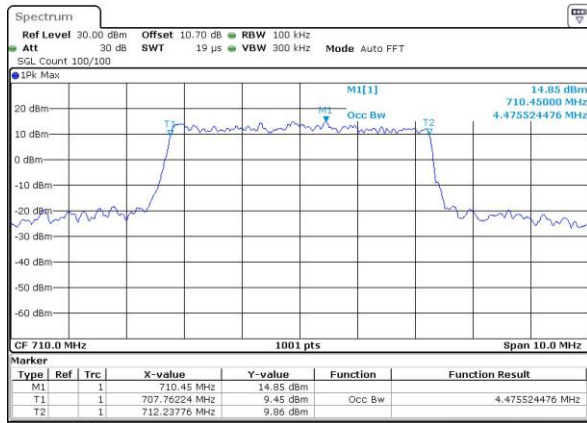
Date: 4.NOV.2016 10:27:10

Lowest Channel / 5MHz / 16QAM



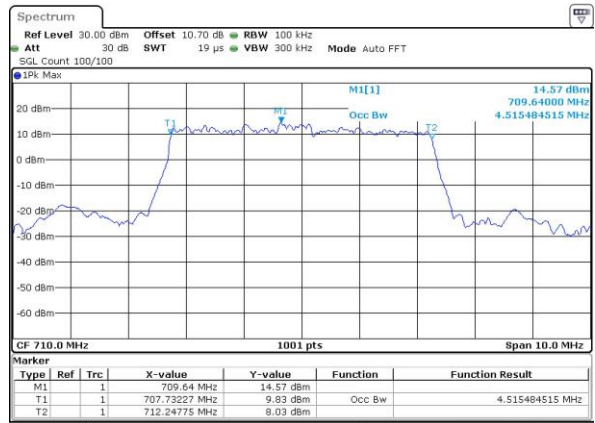
Date: 4.NOV.2016 10:27:24

Middle Channel / 5MHz / QPSK



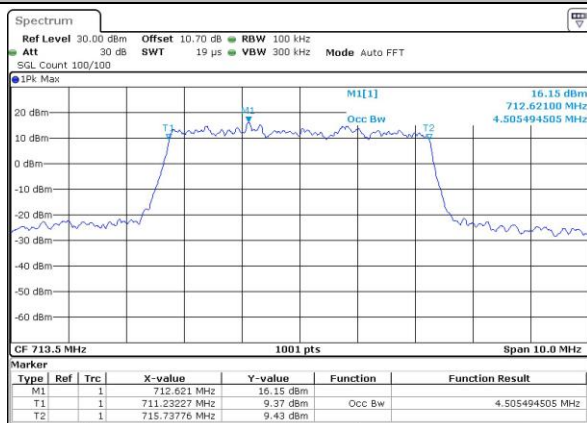
Date: 4.NOV.2016 10:34:34

Middle Channel / 5MHz / 16QAM



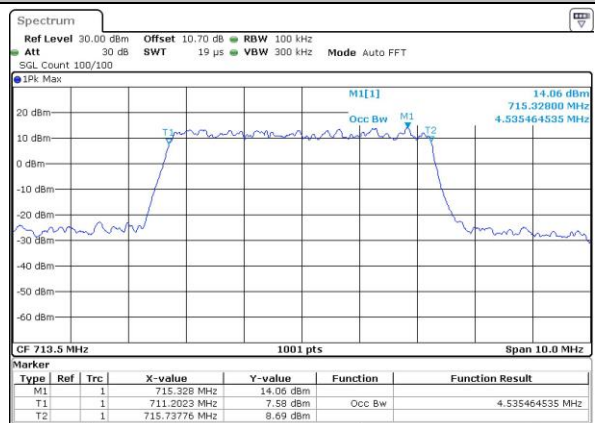
Date: 4.NOV.2016 10:34:46

Highest Channel / 5MHz / QPSK



Date: 4.NOV.2016 10:37:18

Highest Channel / 5MHz / 16QAM

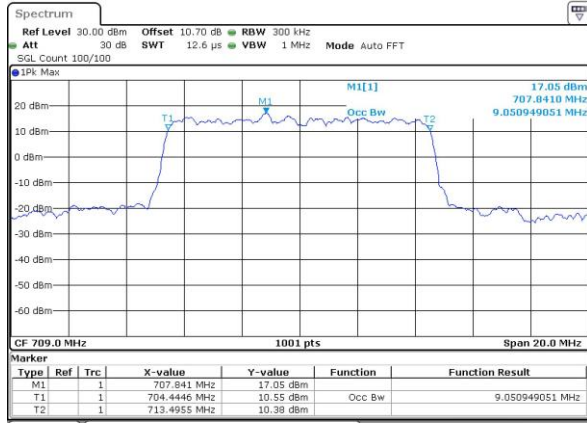


Date: 4.NOV.2016 10:37:30



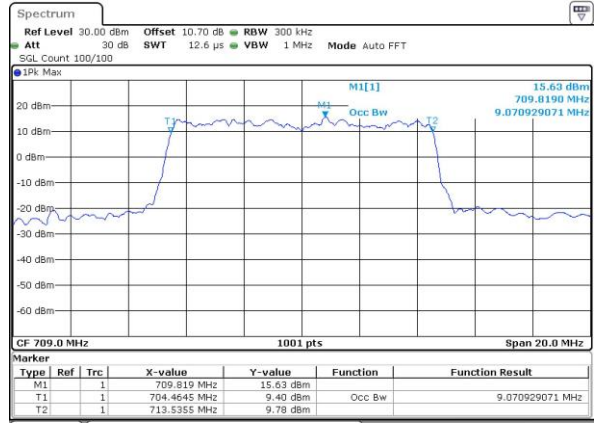
LTE Band 17

Lowest Channel / 10MHz / QPSK



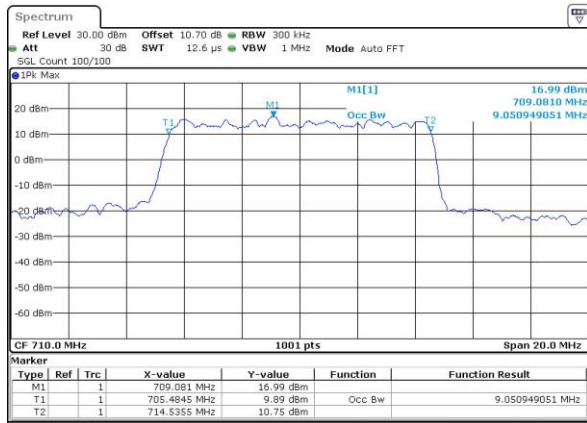
Date: 4.NOV.2016 10:44:39

Lowest Channel / 10MHz / 16QAM



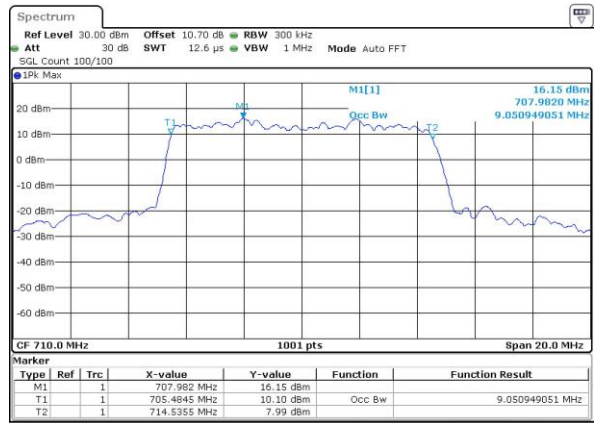
Date: 4.NOV.2016 10:44:51

Middle Channel / 10MHz / QPSK



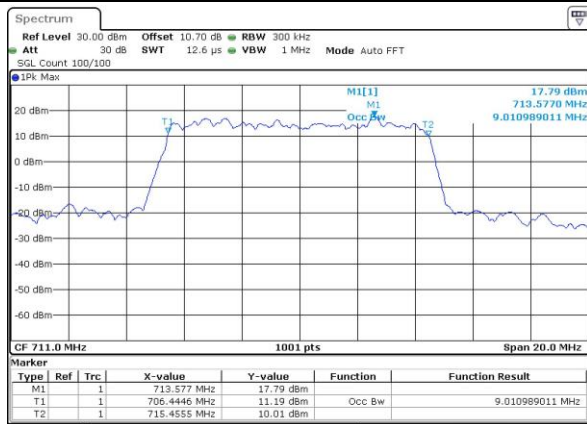
Date: 4.NOV.2016 10:52:00

Middle Channel / 10MHz / 16QAM



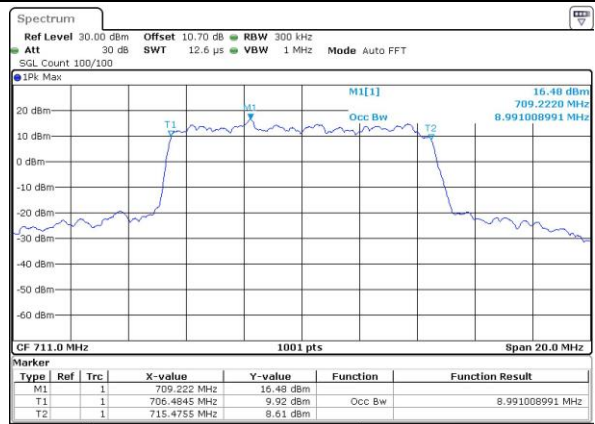
Date: 4.NOV.2016 10:52:12

Highest Channel / 10MHz / QPSK

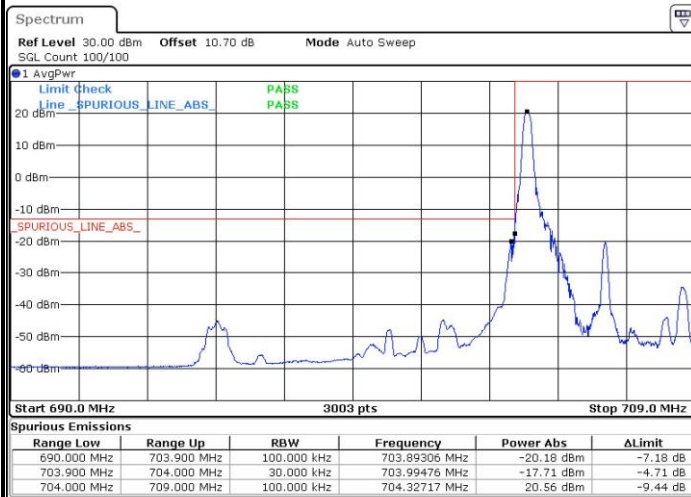
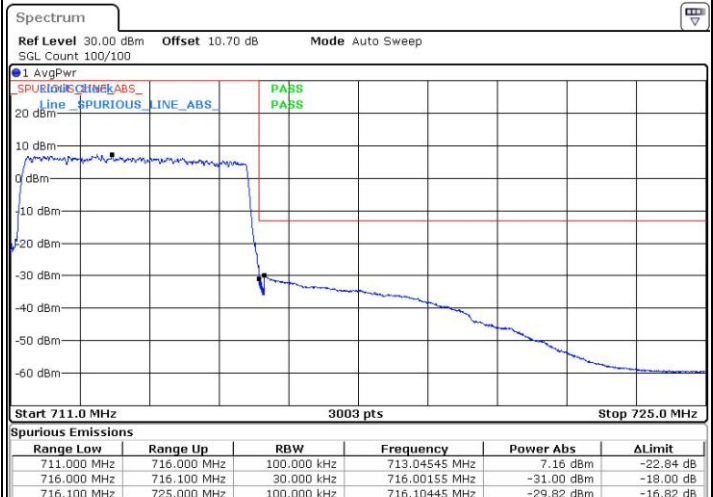


Date: 4.NOV.2016 10:54:44

Highest Channel / 10MHz / 16QAM



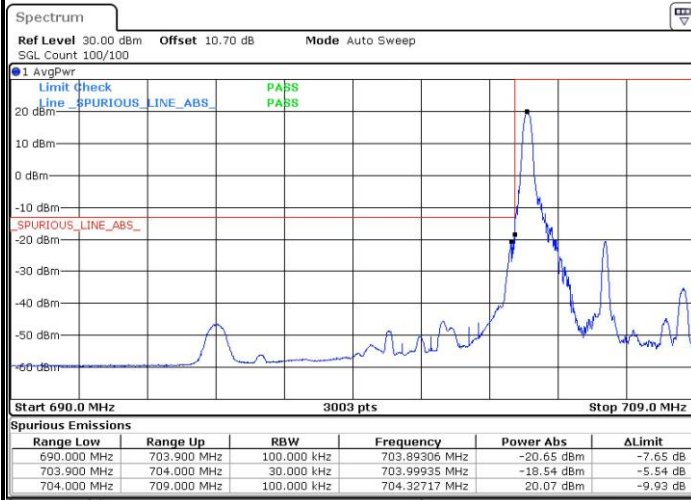
Date: 4.NOV.2016 10:54:56

**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

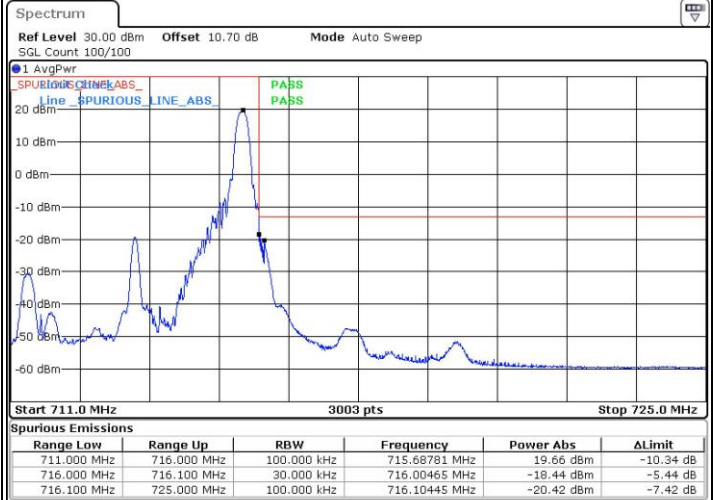


LTE Band 17 / 5MHz / 16QAM

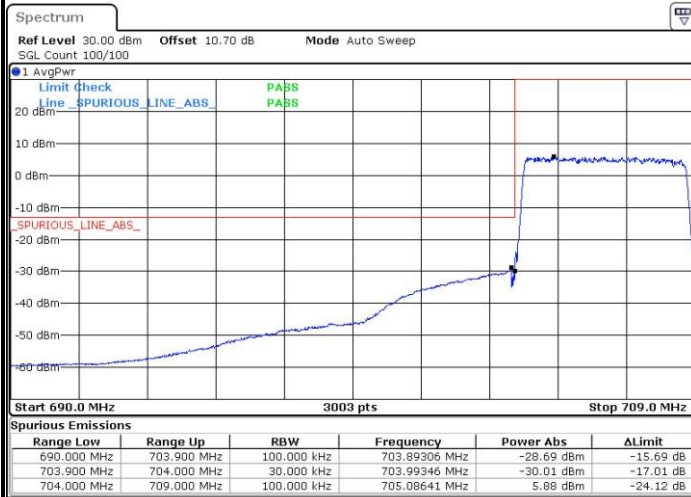
Lowest Band Edge / 1 RB



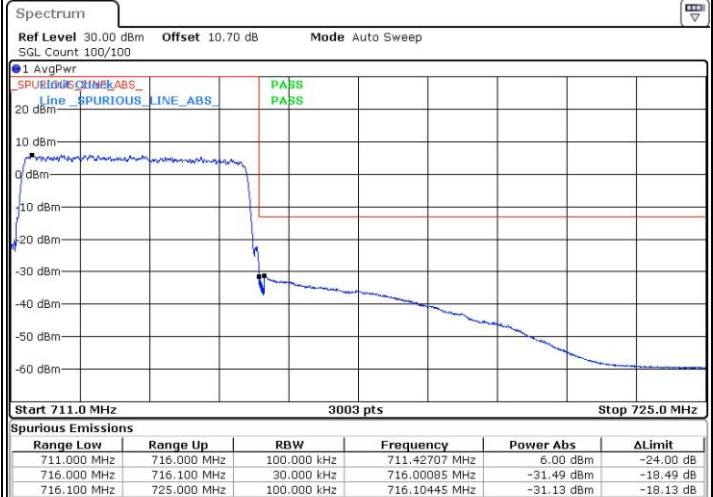
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



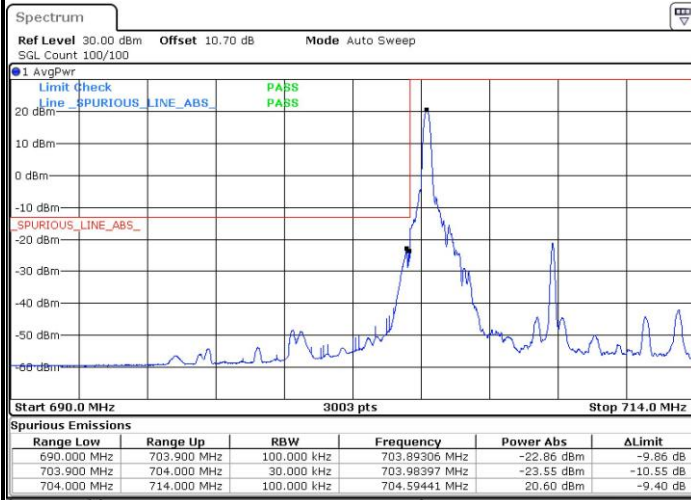
Highest Band Edge / Full RB



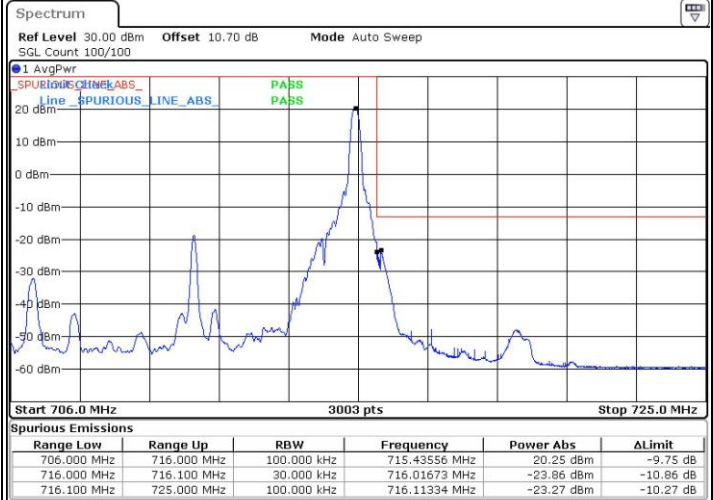


LTE Band 17 / 10MHz / QPSK

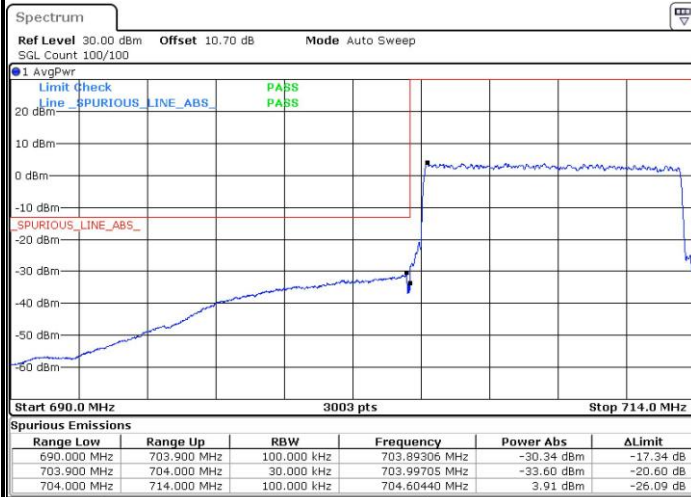
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



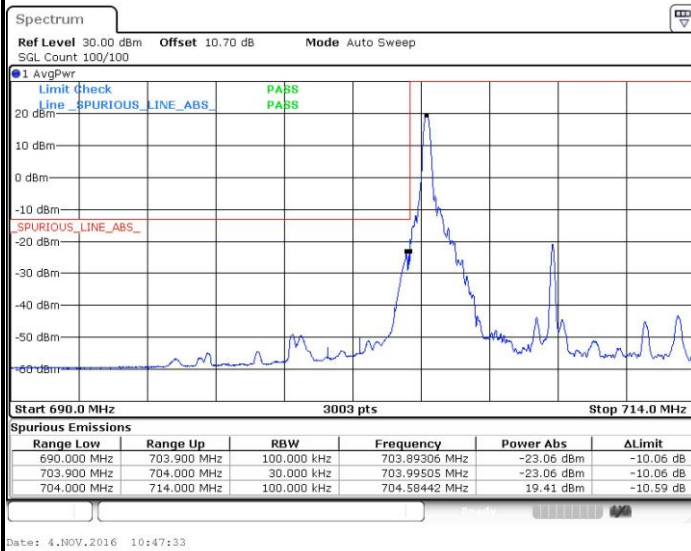
Highest Band Edge / Full RB



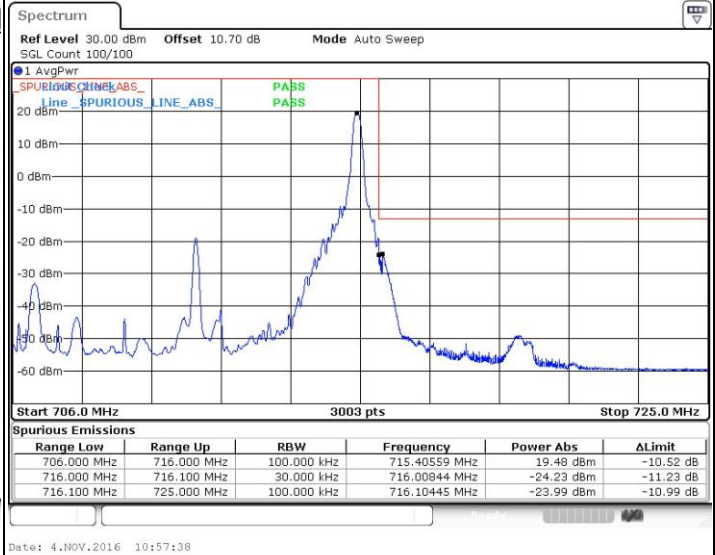


LTE Band 17 / 10MHz / 16QAM

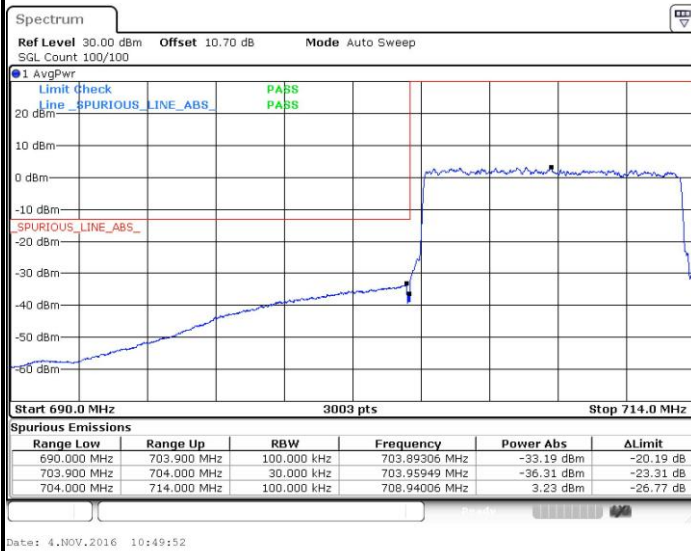
Lowest Band Edge / 1 RB



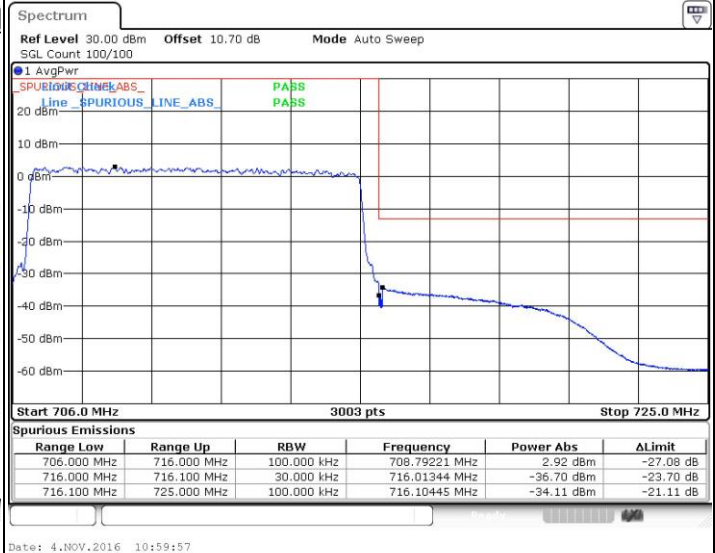
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

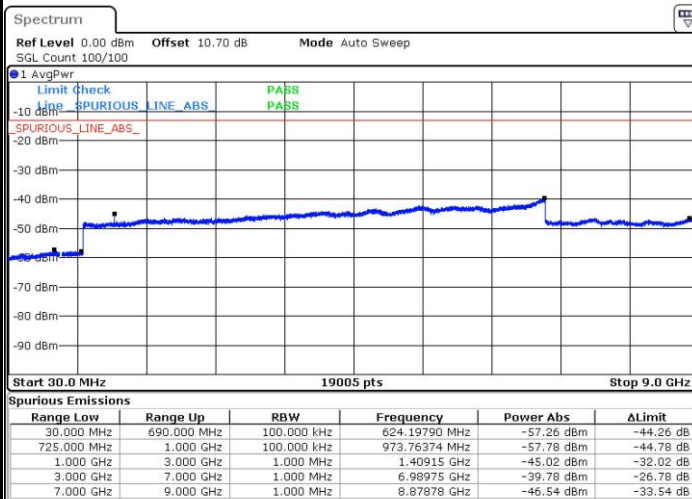




Conducted Spurious Emission

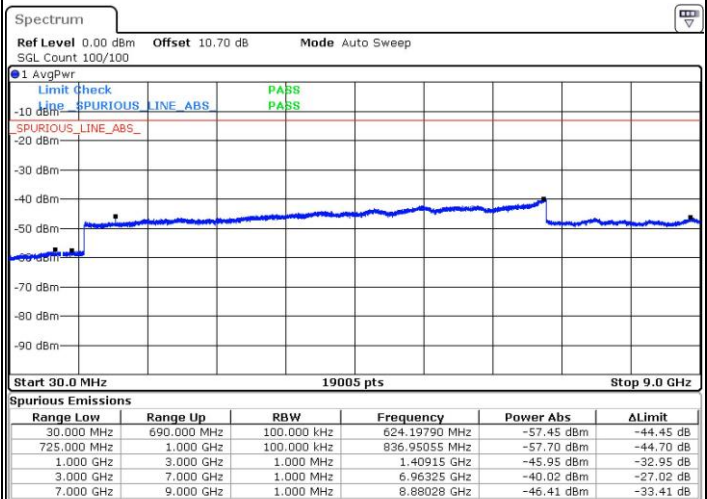
LTE Band 17 / 5MHz

Lowest Channel / QPSK



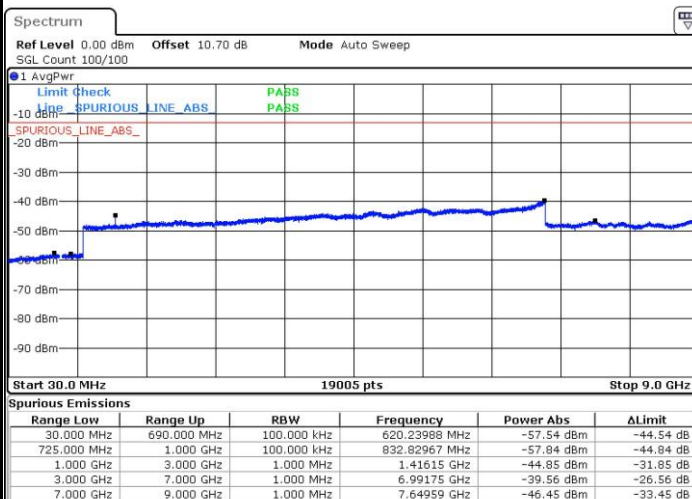
Date: 4.NOV.2016 10:33:23

Lowest Channel / 16QAM



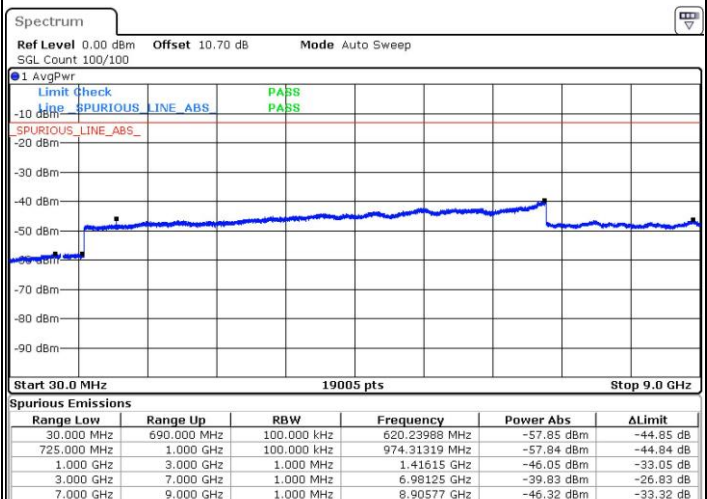
Date: 4.NOV.2016 10:34:22

Middle Channel / QPSK



Date: 4.NOV.2016 10:36:07

Middle Channel / 16QAM

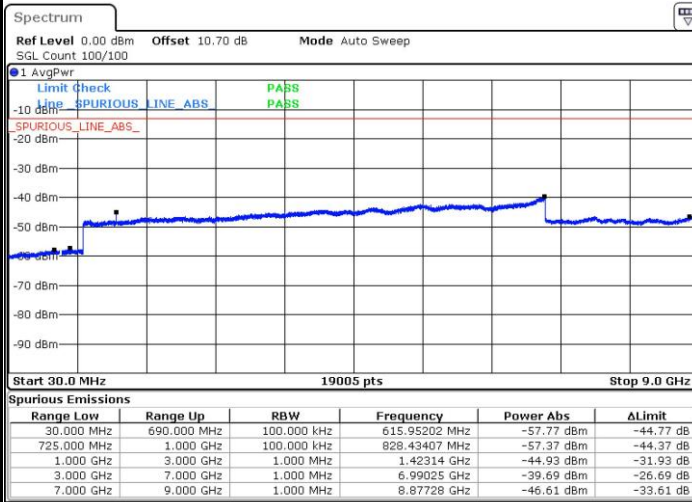


Date: 4.NOV.2016 10:37:05



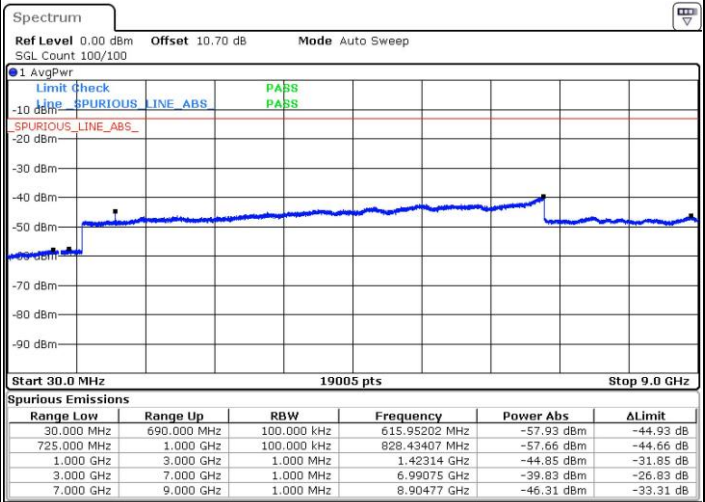
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 4.NOV.2016 10:43:28

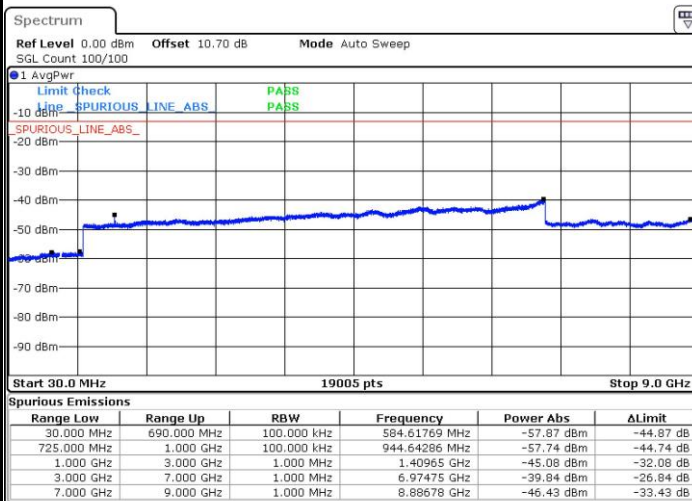
Highest Channel / 16QAM



Date: 4.NOV.2016 10:44:26

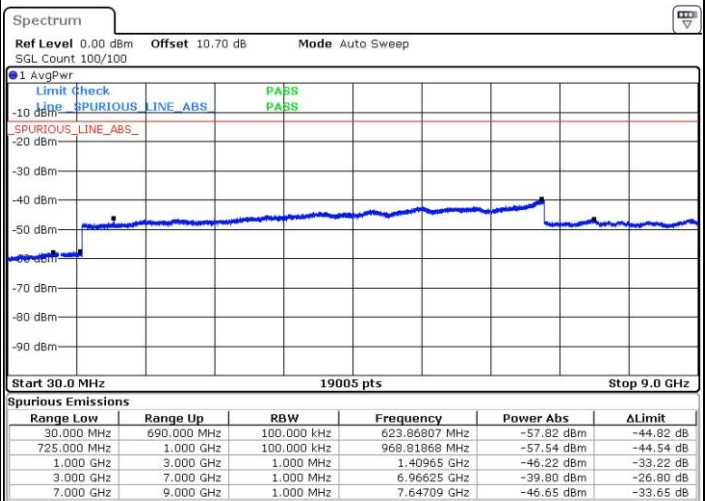
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 4.NOV.2016 10:50:49

Lowest Channel / 16QAM

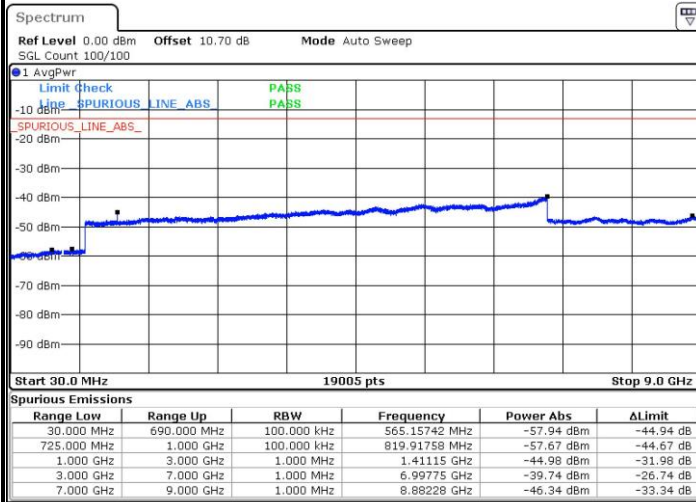


Date: 4.NOV.2016 10:51:48



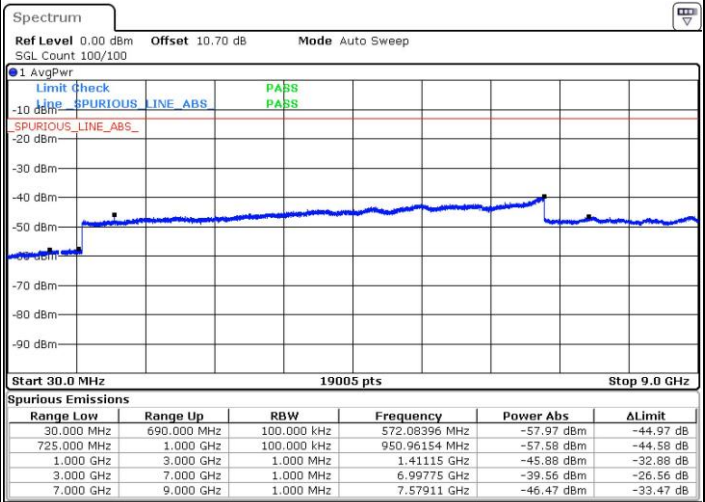
LTE Band 17 / 10MHz

Middle Channel / QPSK



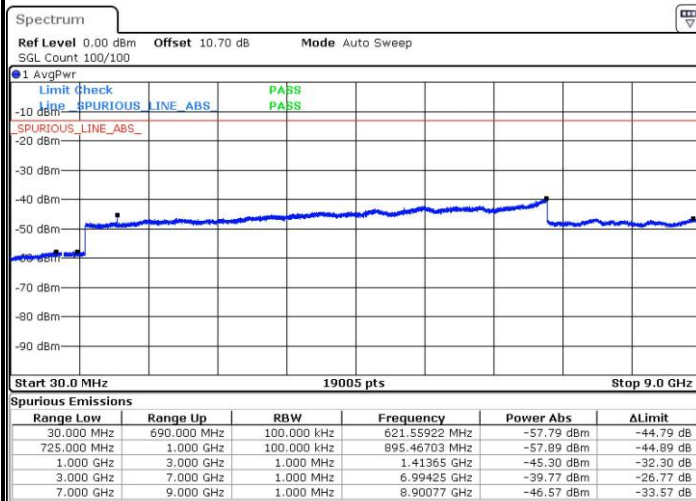
Date: 4.NOV.2016 10:53:33

Middle Channel / 16QAM



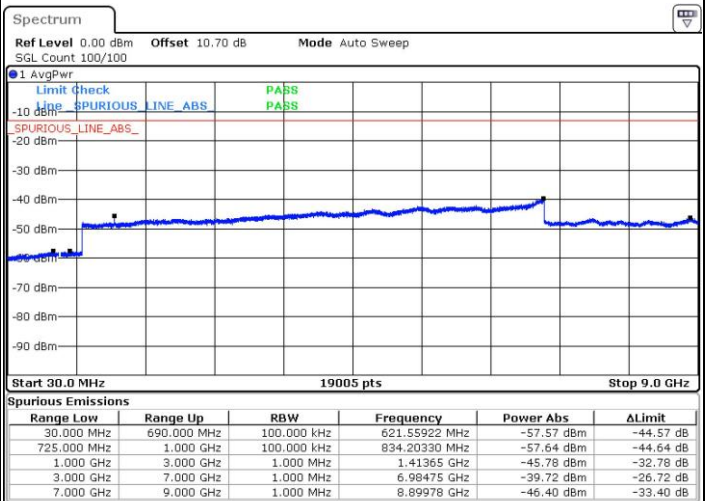
Date: 4.NOV.2016 10:54:31

Highest Channel / QPSK



Date: 4.NOV.2016 11:00:54

Highest Channel / 16QAM



Date: 4.NOV.2016 11:01:53

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	0.0001	PASS
40	Normal Voltage	0.0221	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0210	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0201	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0223	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0218	

Note:

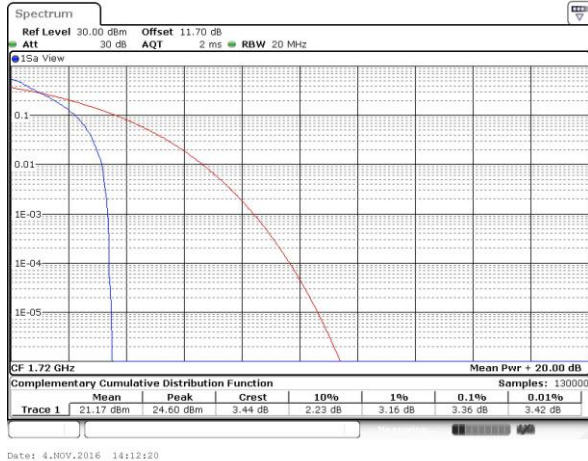
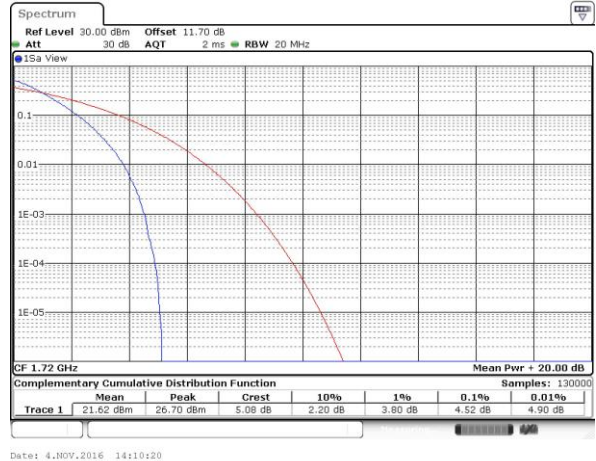
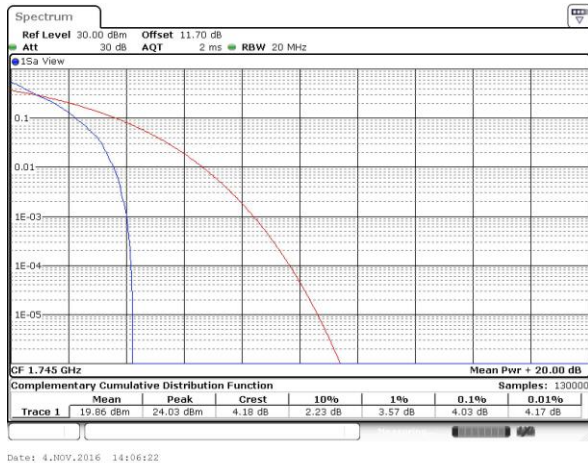
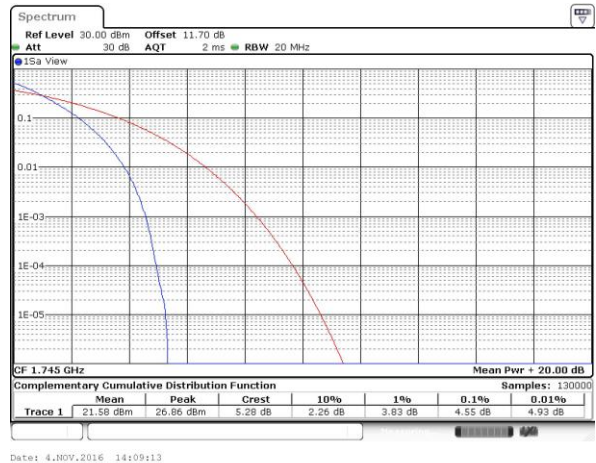
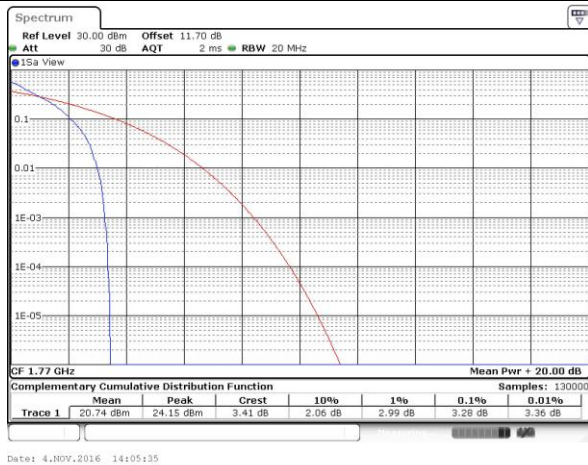
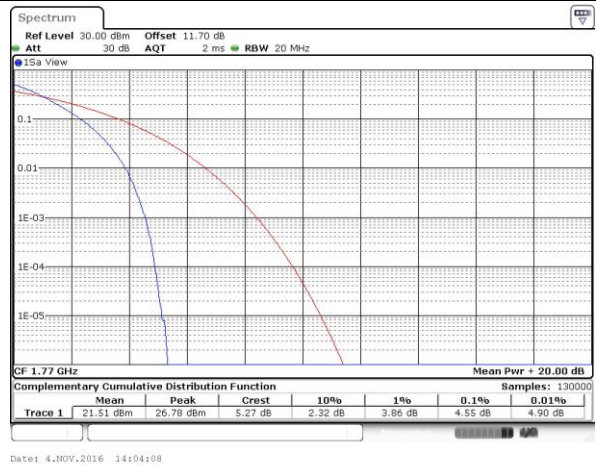
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

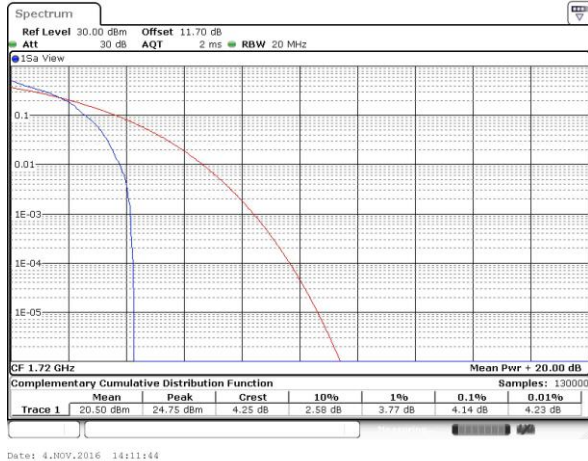
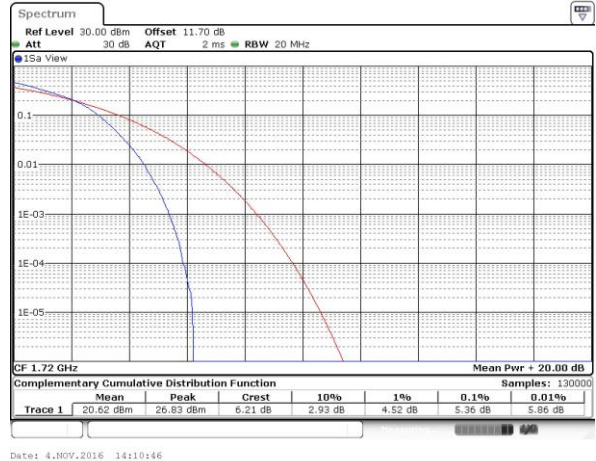
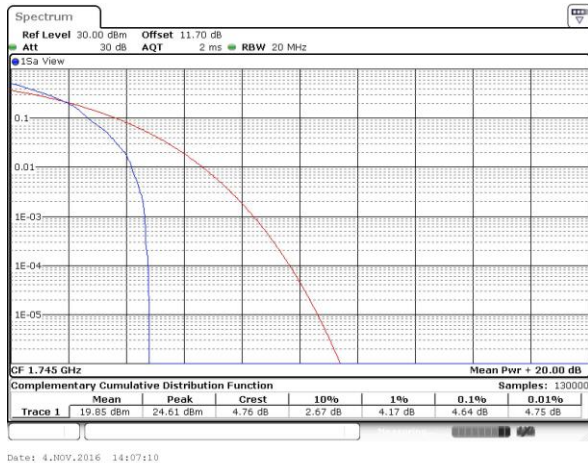
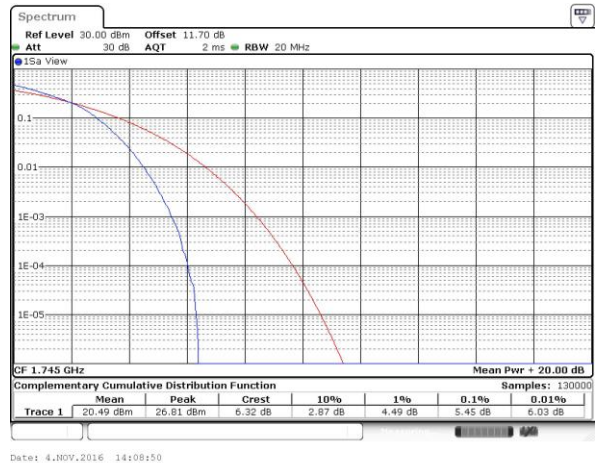
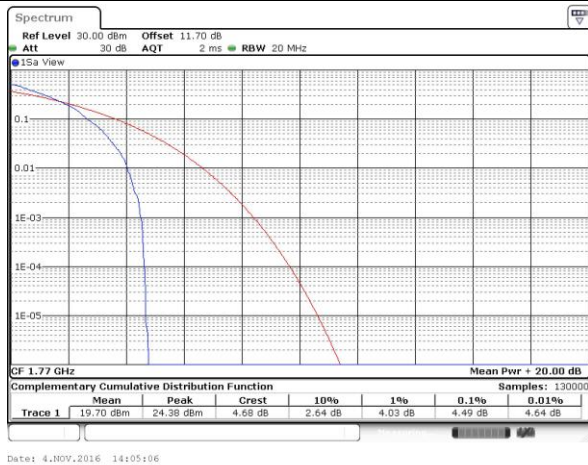
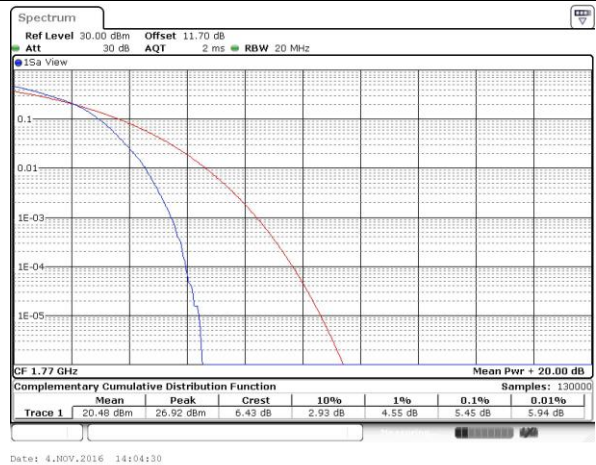


LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.36	4.52	4.14	5.36	PASS
Middle CH	4.03	4.55	4.64	5.45	
Highest CH	3.28	4.55	4.49	5.45	

LTE Band 66 / 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 66 / 20MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB




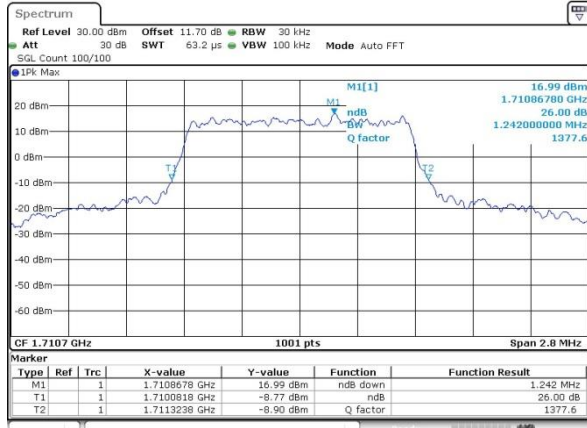
26dB Bandwidth

Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.27	3.04	3.00	5.06	5.10	9.81	9.83	14.57	14.42	20.30	20.38
Middle CH	1.28	1.26	2.99	2.99	4.97	5.01	10.07	9.75	14.69	14.39	20.26	20.14
Highest CH	1.24	1.26	3.05	3.02	4.93	4.97	9.87	9.91	14.63	14.33	20.18	20.18



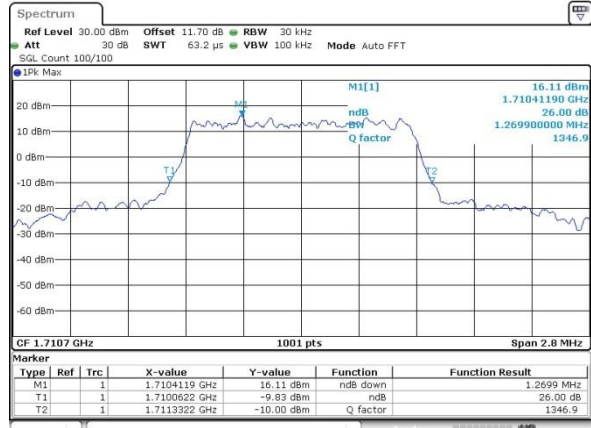
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



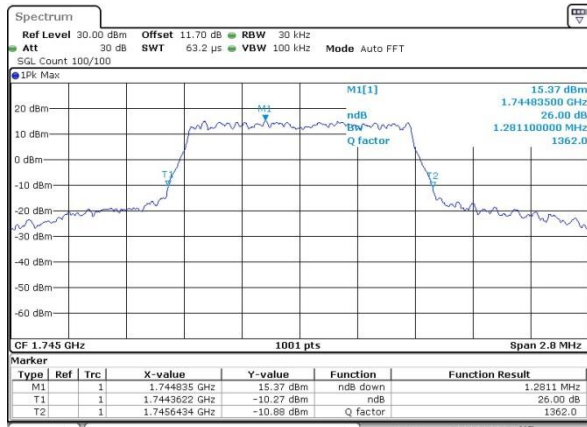
Date: 4.NOV.2016 11:31:48

Lowest Channel / 1.4MHz / 16QAM



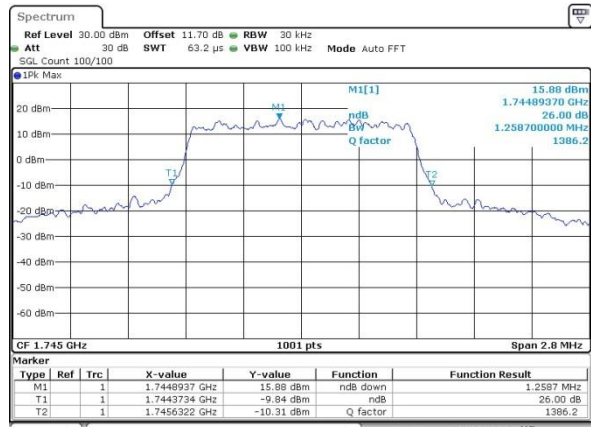
Date: 4.NOV.2016 11:31:12

Middle Channel / 1.4MHz / QPSK



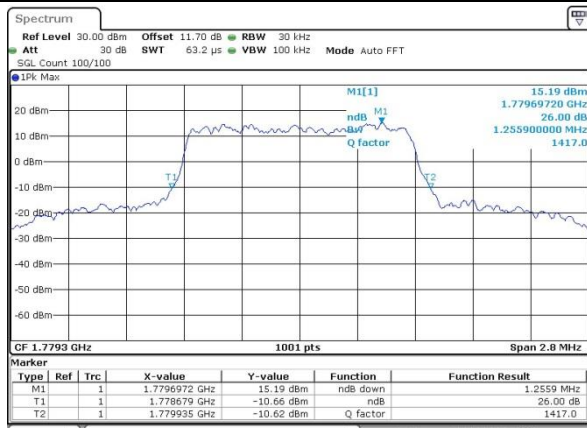
Date: 4.NOV.2016 11:28:16

Middle Channel / 1.4MHz / 16QAM



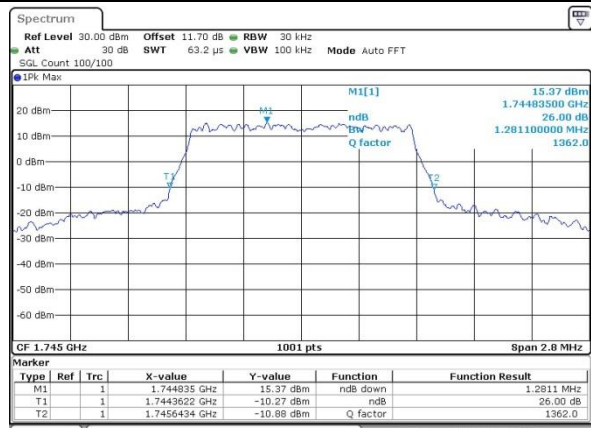
Date: 4.NOV.2016 11:29:09

Highest Channel / 1.4MHz / QPSK



Date: 4.NOV.2016 11:27:21

Highest Channel / 1.4MHz / 16QAM



Date: 4.NOV.2016 11:28:18