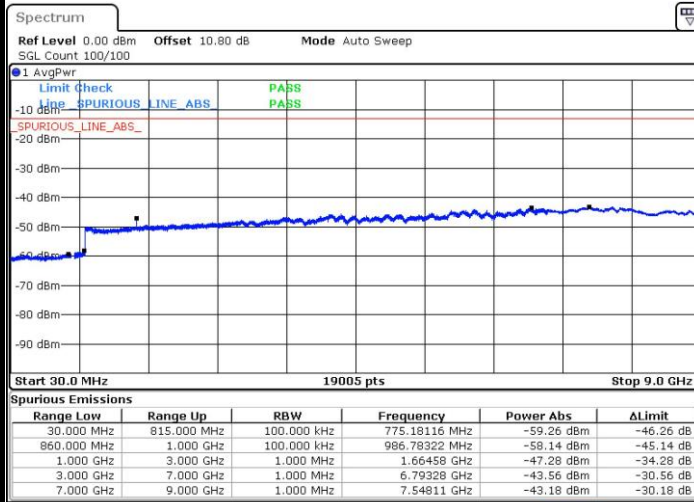




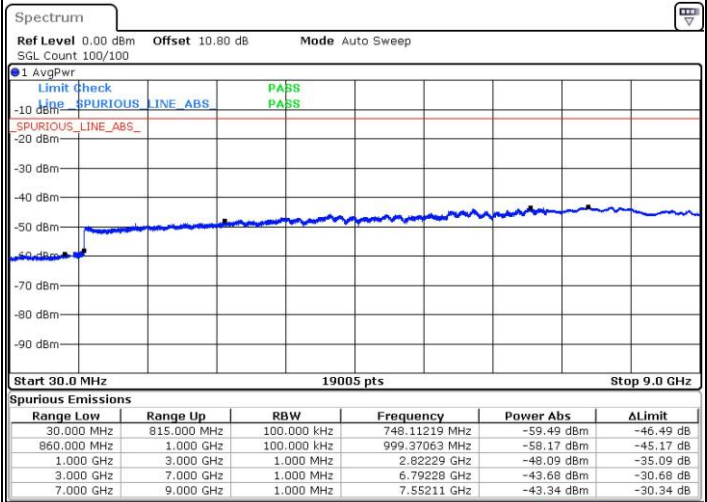
LTE Band 5 / 10MHz

Middle Channel / QPSK



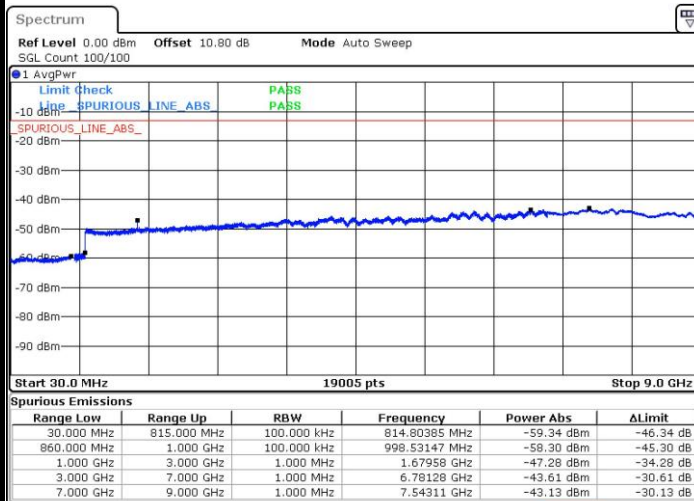
Date: 29 AUG.2018 17:35:17

Middle Channel / 16QAM



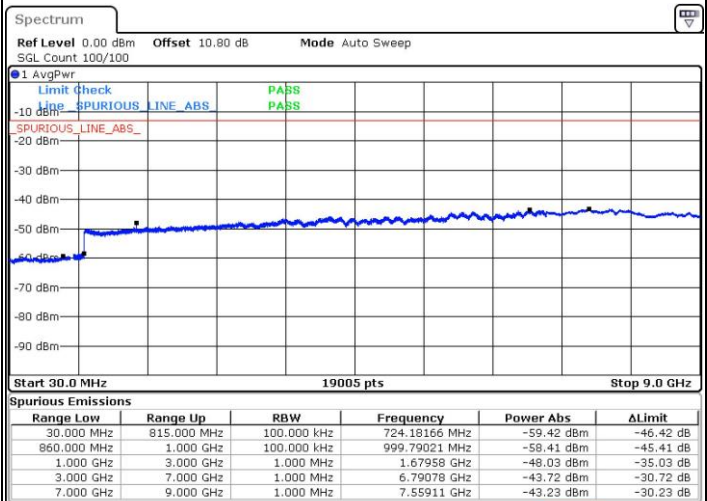
Date: 29 AUG.2018 17:36:17

Highest Channel / QPSK



Date: 29 AUG.2018 17:44:43

Highest Channel / 16QAM

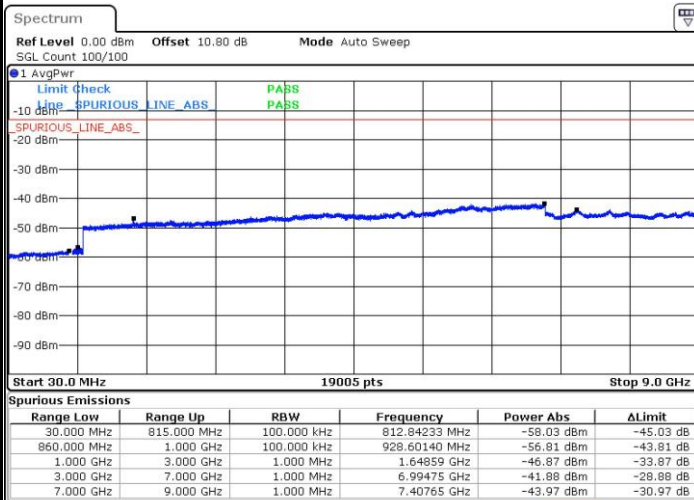


Date: 29 AUG.2018 17:45:43



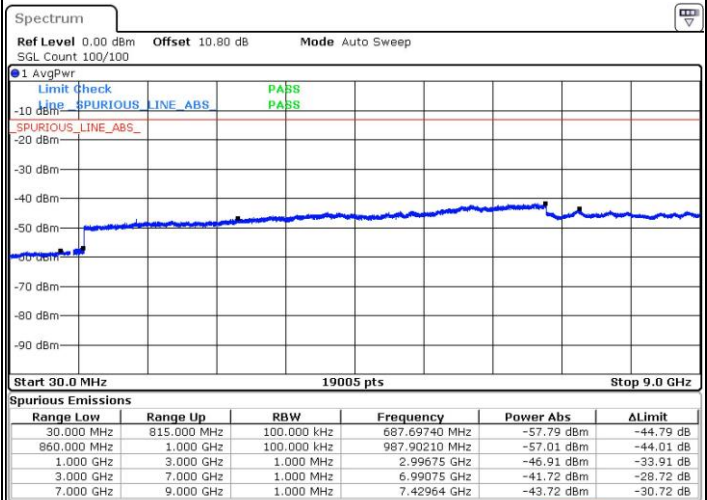
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



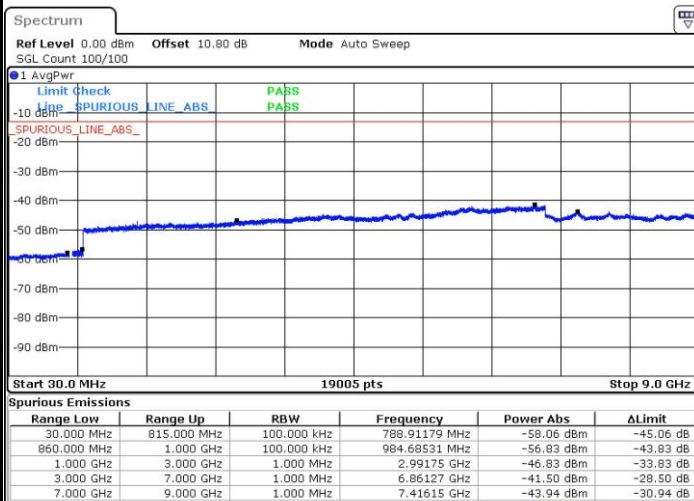
Date: 14 NOV 2018 15:01:03

Middle Channel / 64QAM



Date: 14 NOV 2018 15:02:25

Highest Channel / 64QAM

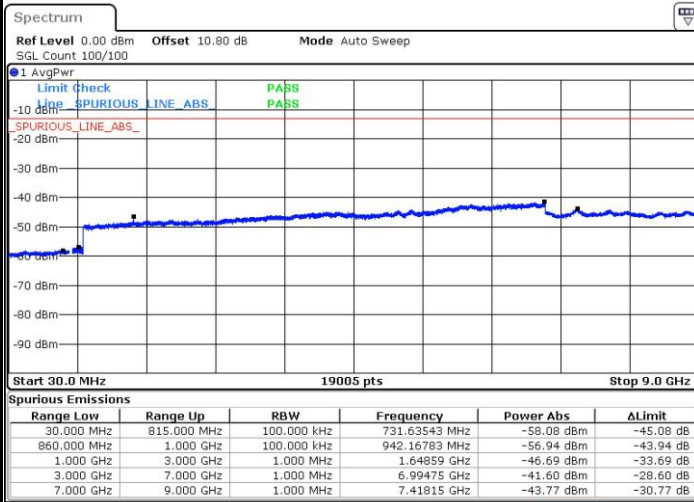


Date: 14 NOV 2018 15:07:04



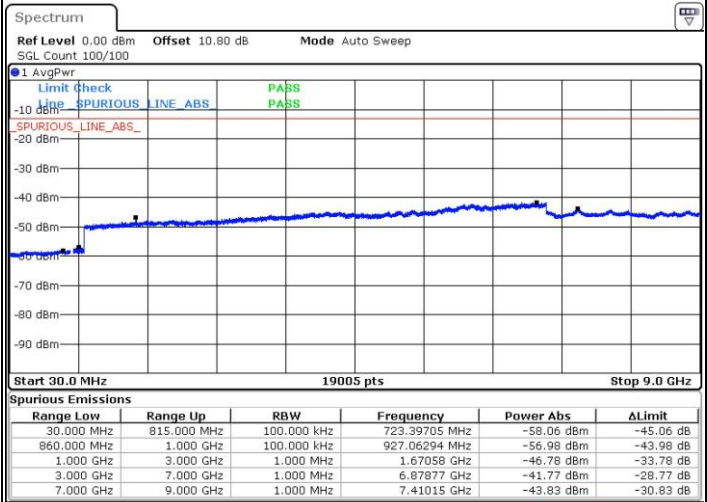
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



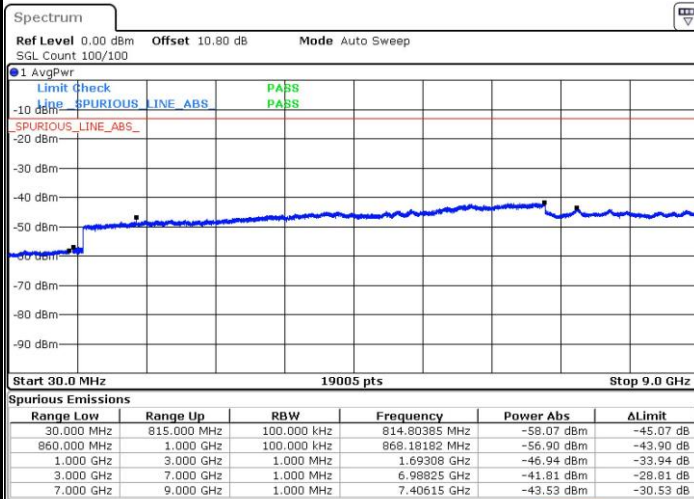
Date: 14 NOV 2018 14:22:47

Middle Channel / 64QAM



Date: 14 NOV 2018 14:24:09

Highest Channel / 64QAM

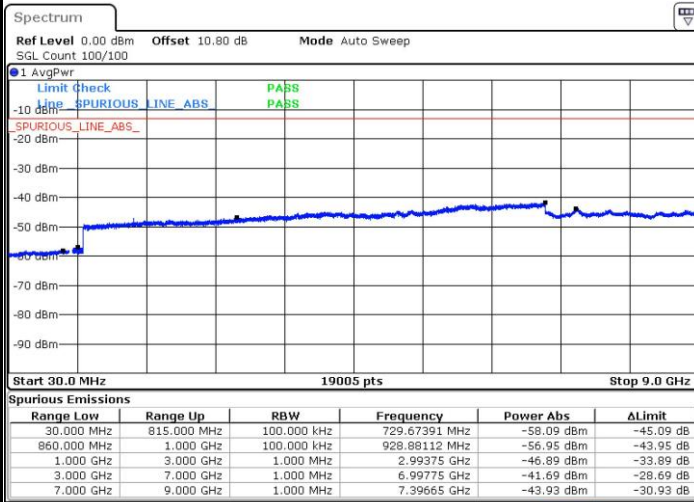


Date: 14 NOV 2018 14:28:48



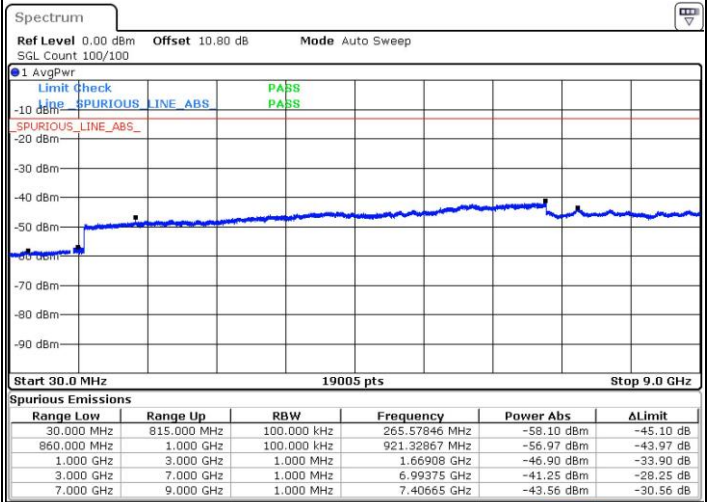
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



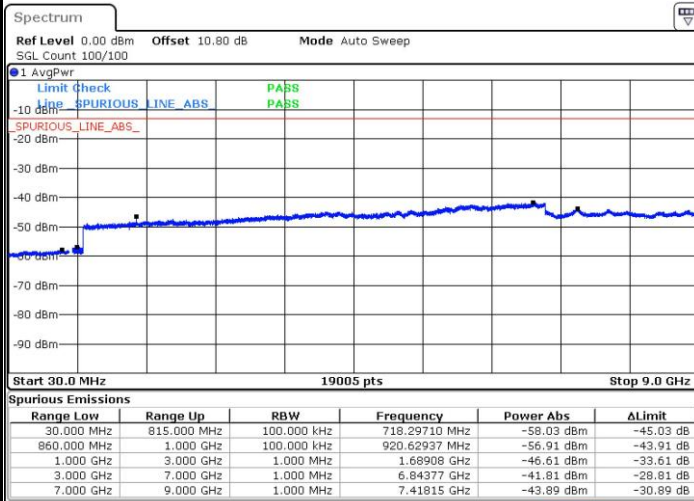
Date: 14 NOV 2018 14:33:27

Middle Channel / 64QAM



Date: 14 NOV 2018 14:34:49

Highest Channel / 64QAM

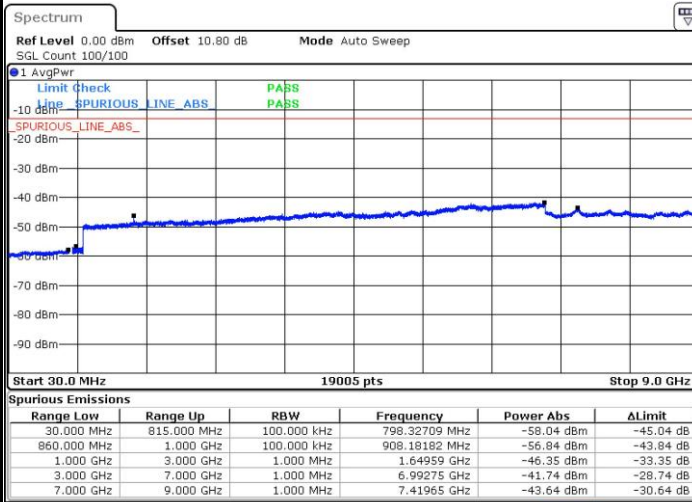


Date: 14 NOV 2018 14:39:28



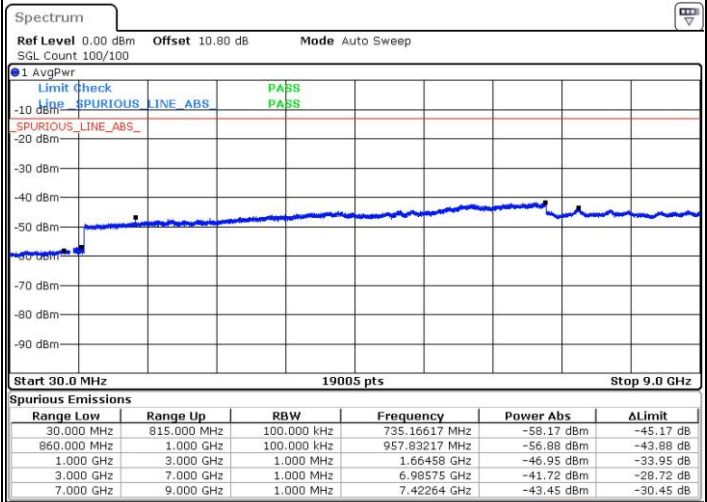
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



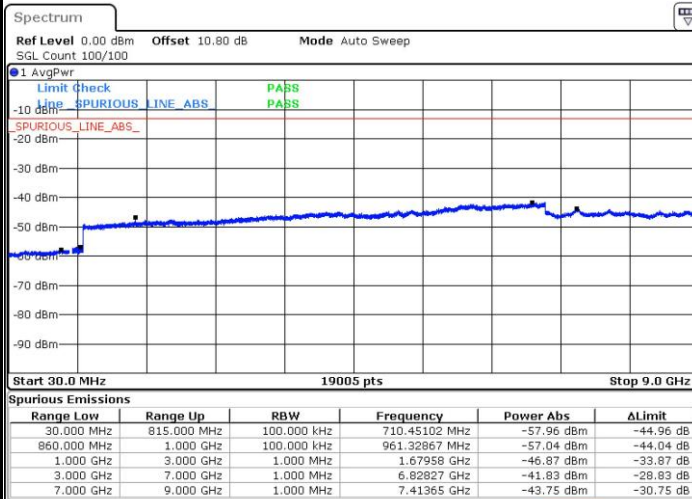
Date: 14 NOV 2018 14:44:07

Middle Channel / 64QAM



Date: 14 NOV 2018 14:45:30

Highest Channel / 64QAM



Date: 14 NOV 2018 14:50:09

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	0.0091	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0112	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0110	
-10	Normal Voltage	0.0106	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0104	

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 7

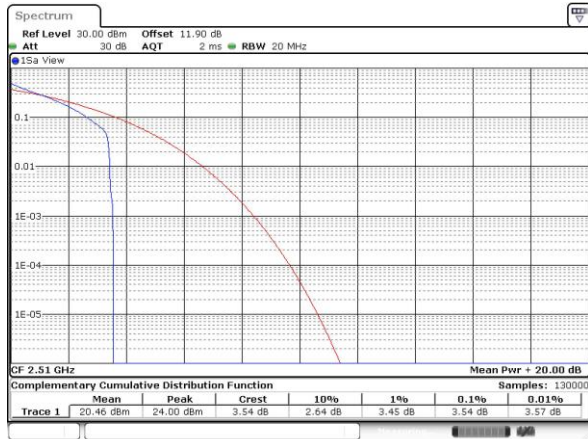
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.64	5.25	6.03	PASS
Middle CH	3.57	4.61	4.99	6.03	
Highest CH	3.51	4.52	5.13	6	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.00	6.41	-	-	PASS
Middle CH	5.77	6.38	-	-	
Highest CH	6.12	6.29	-	-	

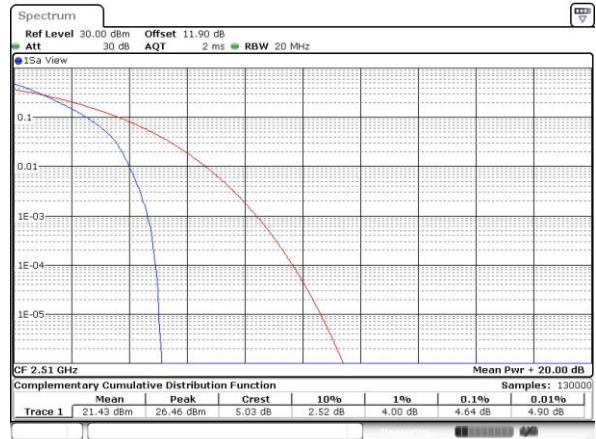


LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



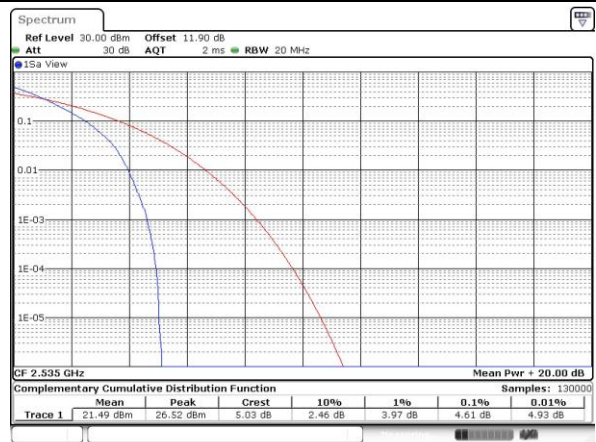
Lowest Channel / Full RB



Middle Channel / 1RB



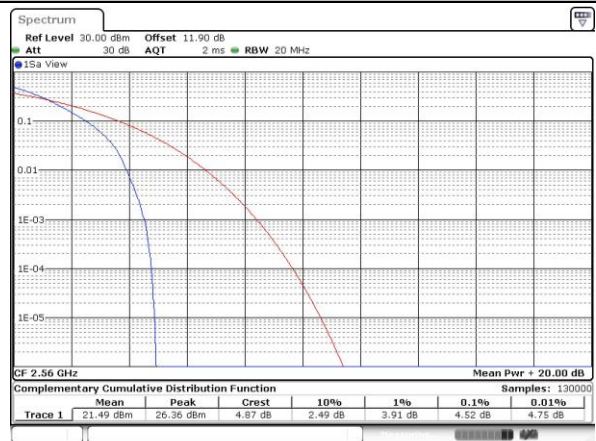
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





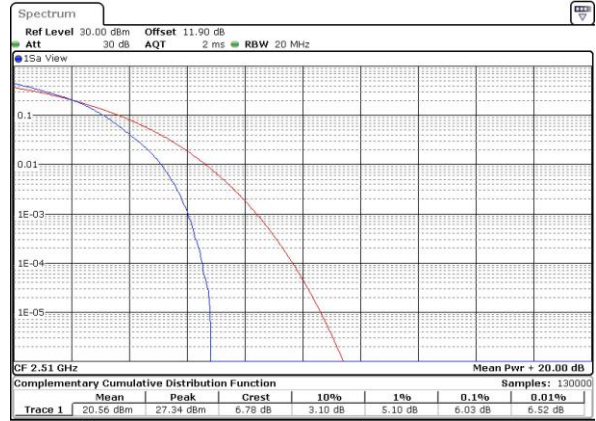
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 29 AUG 2018 15:57:55

Lowest Channel / Full RB



Date: 29 AUG 2018 15:58:10

Middle Channel / 1RB



Date: 29 AUG 2018 15:58:23

Middle Channel / Full RB



Date: 29 AUG 2018 15:58:34

Highest Channel / 1RB

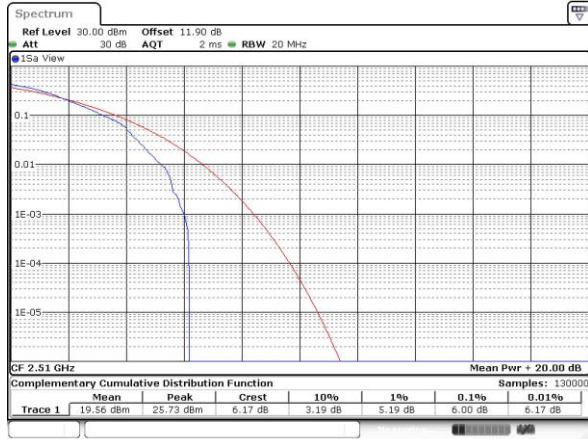


Date: 29 AUG 2018 15:58:48

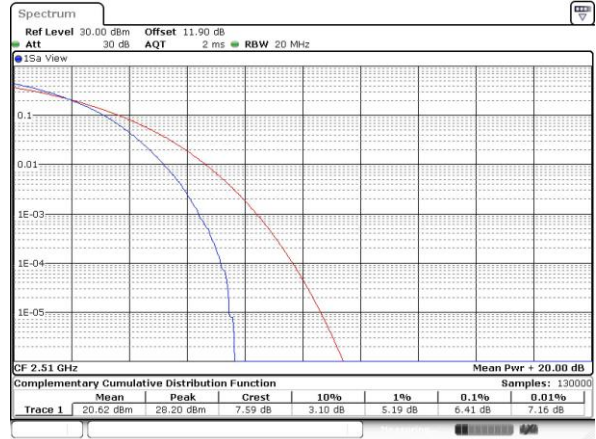
Highest Channel / Full RB



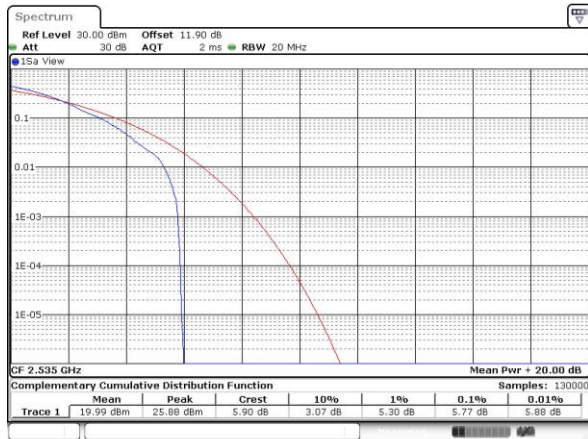
Date: 29 AUG 2018 15:59:01

LTE Band 7 / 20MHz / 64QAM
Lowest Channel / 1RB


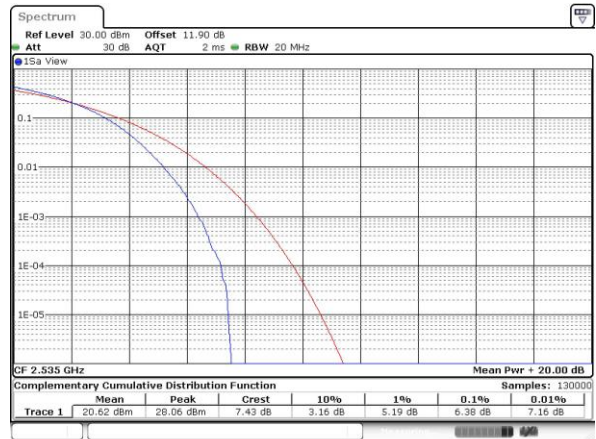
Date: 15 NOV 2018 03:07:55

Lowest Channel / Full RB


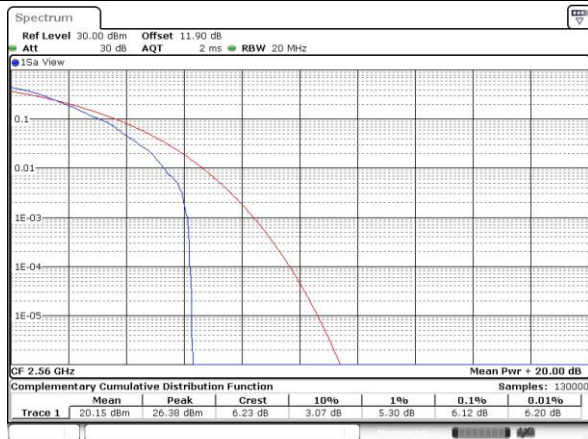
Date: 15 NOV 2018 03:08:06

Middle Channel / 1RB


Date: 15 NOV 2018 03:08:17

Middle Channel / Full RB


Date: 15 NOV 2018 03:08:30

Highest Channel / 1RB


Date: 15 NOV 2018 03:08:40

Highest Channel / Full RB


Date: 15 NOV 2018 03:08:52

**26dB Bandwidth**

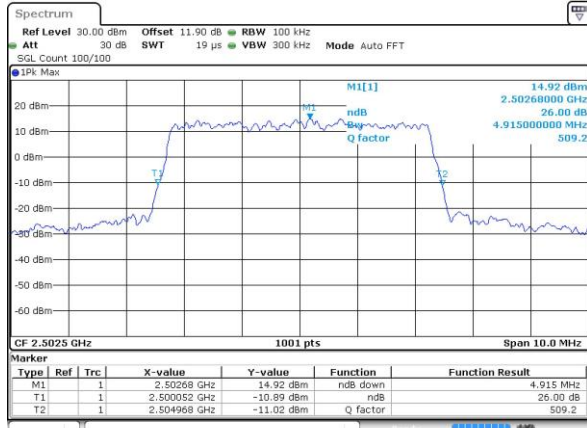
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.92	4.83	9.75	9.83	14.45	14.42	20.38	20.10
Middle CH	-	-	-	-	4.89	4.94	9.81	9.89	14.33	14.66	20.34	20.02
Highest CH	-	-	-	-	4.95	4.81	9.85	9.69	14.24	14.48	20.18	20.14

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.94	-	9.93	-	14.30	-	20.5	-
Middle CH	-	-	-	-	4.89	-	9.69	-	14.54	-	20.14	-
Highest CH	-	-	-	-	4.92	-	9.85	-	14.39	-	20.06	-



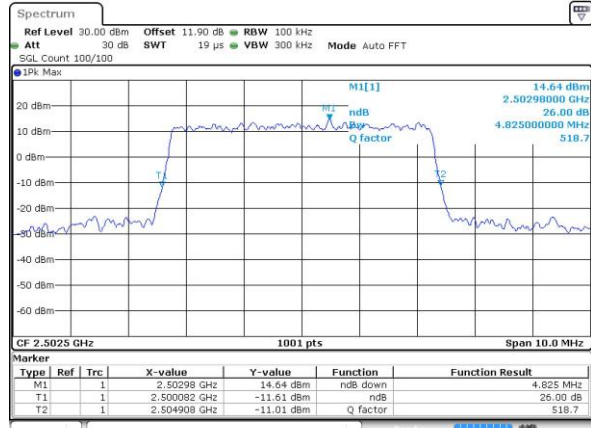
LTE Band 7

Lowest Channel / 5MHz / QPSK



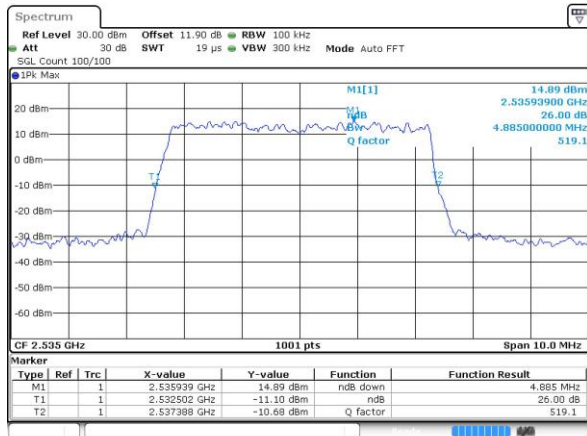
Date: 29 AUG 2018 14:27:57

Lowest Channel / 5MHz / 16QAM



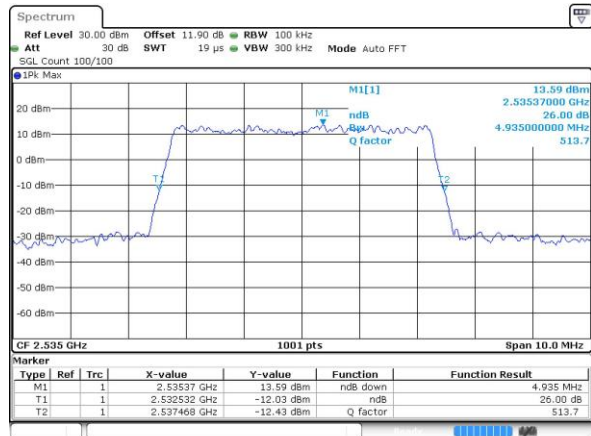
Date: 29 AUG 2018 14:28:09

Middle Channel / 5MHz / QPSK



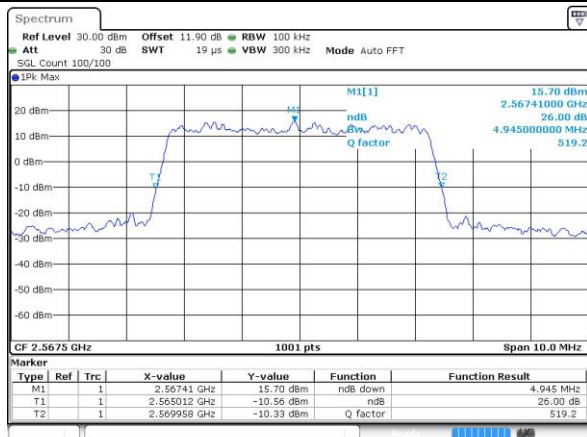
Date: 29 AUG 2018 14:35:25

Middle Channel / 5MHz / 16QAM



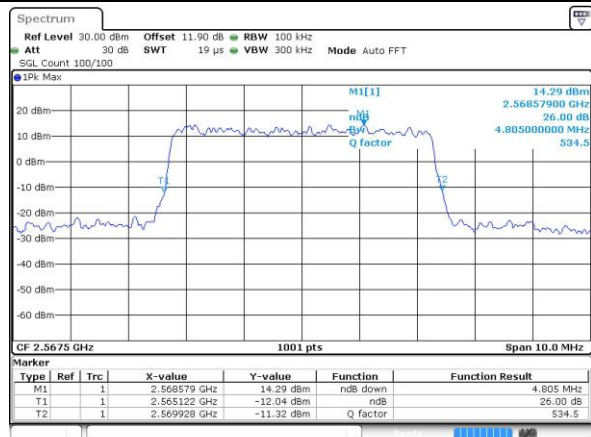
Date: 29 AUG 2018 14:35:36

Highest Channel / 5MHz / QPSK



Date: 29 AUG 2018 14:38:10

Highest Channel / 5MHz / 16QAM

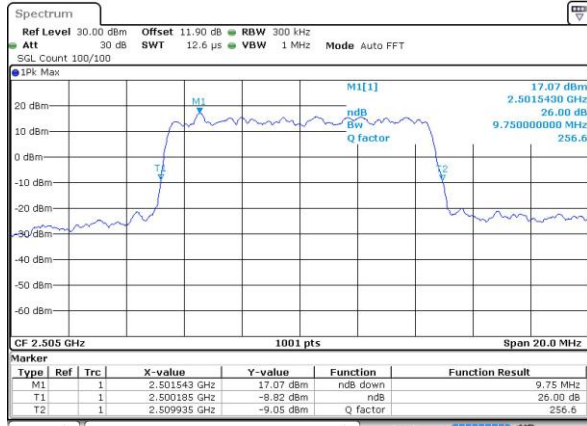


Date: 29 AUG 2018 14:38:21



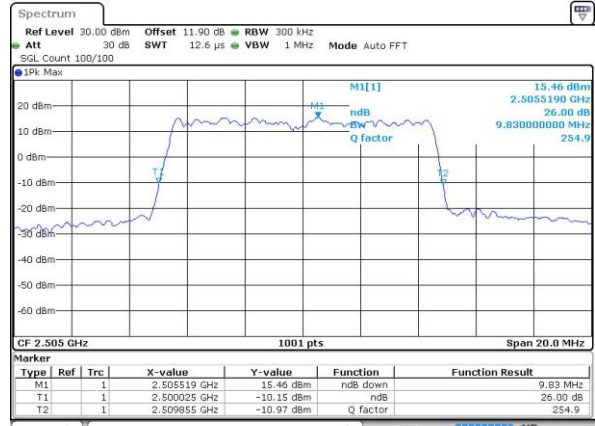
LTE Band 7

Lowest Channel / 10MHz / QPSK



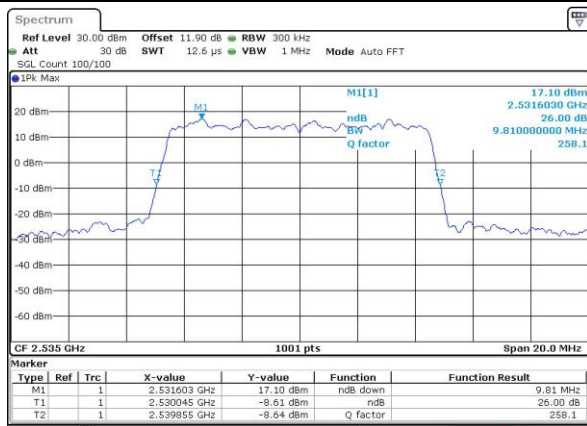
Date: 29 AUG 2018 14:45:37

Lowest Channel / 10MHz / 16QAM



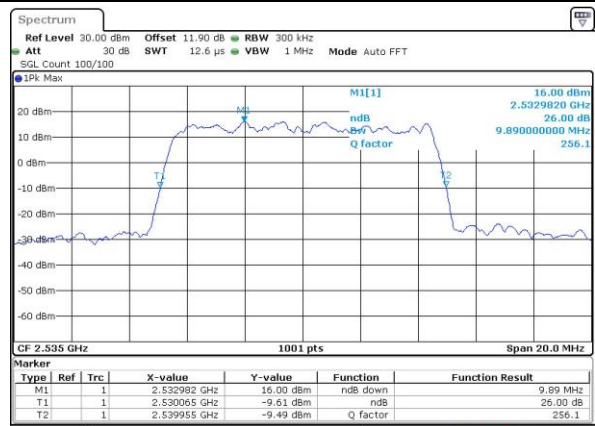
Date: 29 AUG 2018 14:45:49

Middle Channel / 10MHz / QPSK



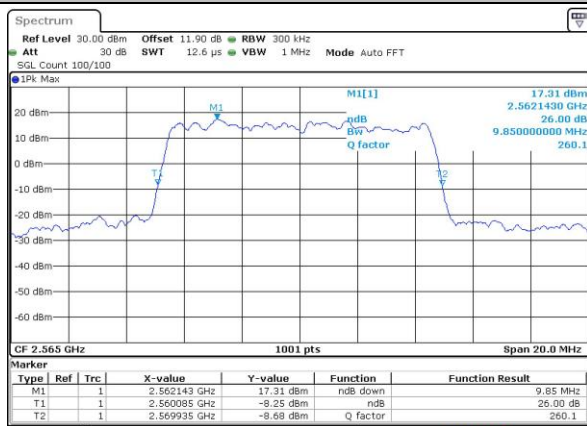
Date: 29 AUG 2018 14:53:05

Middle Channel / 10MHz / 16QAM



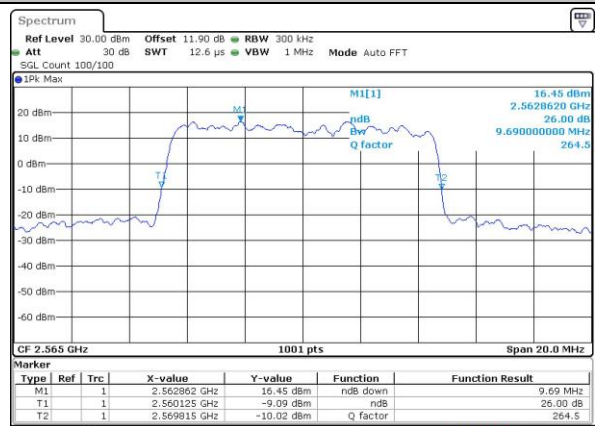
Date: 29 AUG 2018 14:53:16

Highest Channel / 10MHz / QPSK



Date: 29 AUG 2018 14:55:50

Highest Channel / 10MHz / 16QAM

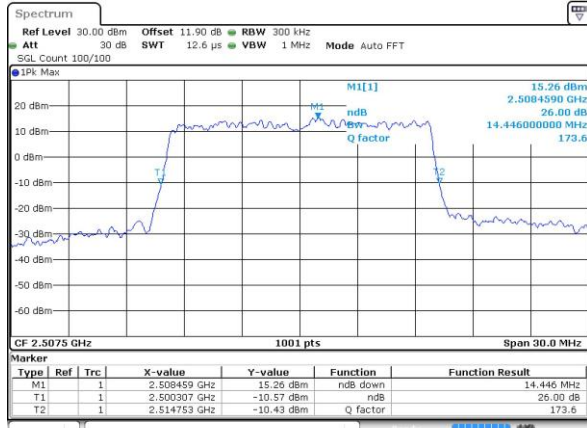


Date: 29 AUG 2018 14:56:01

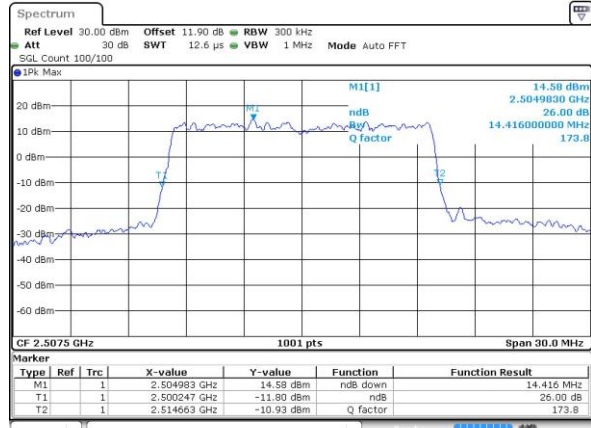


LTE Band 7

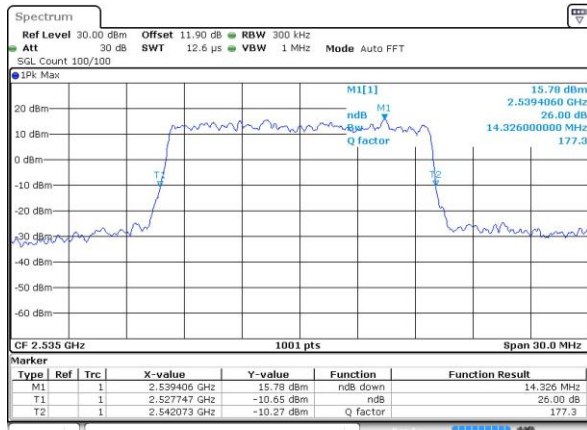
Lowest Channel / 15MHz / QPSK



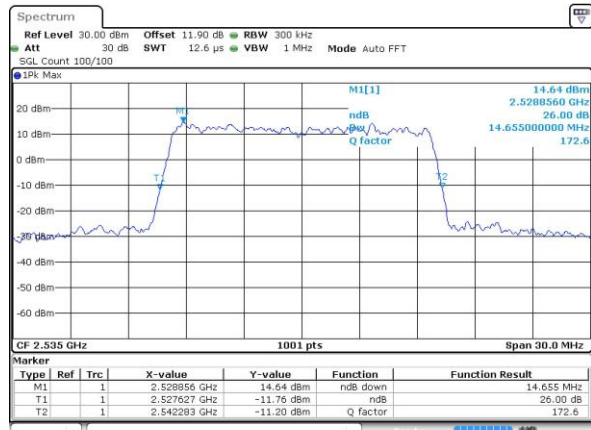
Lowest Channel / 15MHz / 16QAM



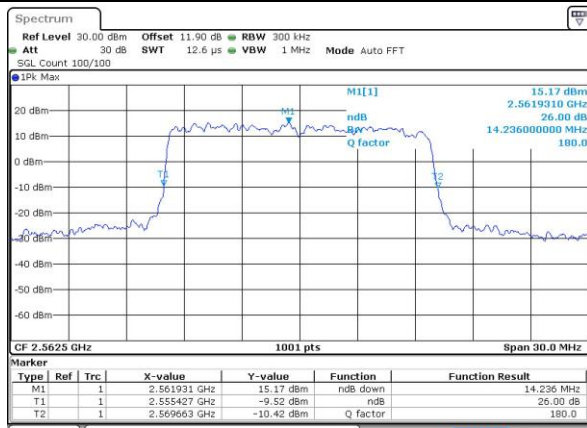
Middle Channel / 15MHz / QPSK



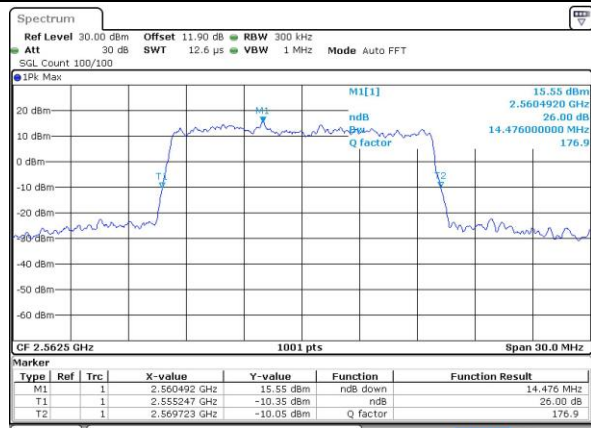
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



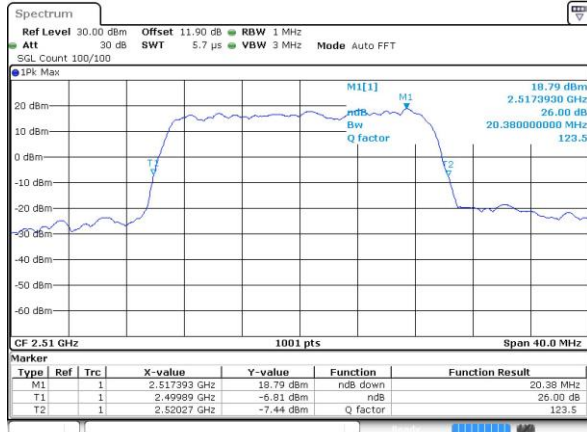
Highest Channel / 15MHz / 16QAM





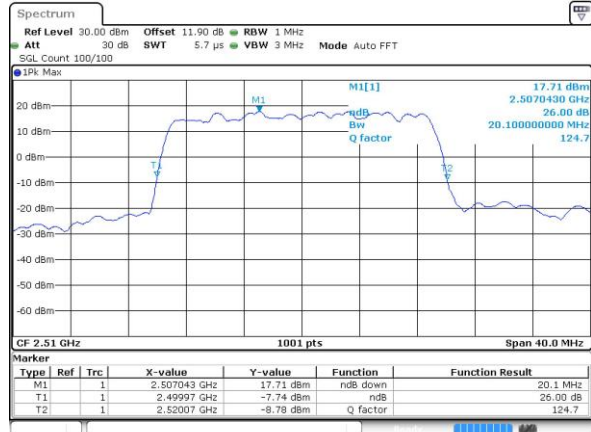
LTE Band 7

Lowest Channel / 20MHz / QPSK



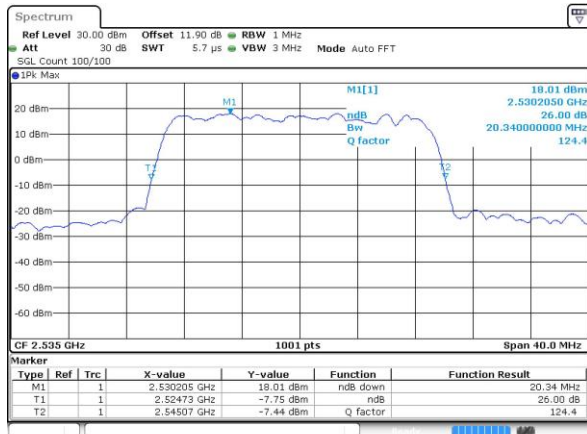
Date: 29 AUG 2018 15:33:16

Lowest Channel / 20MHz / 16QAM



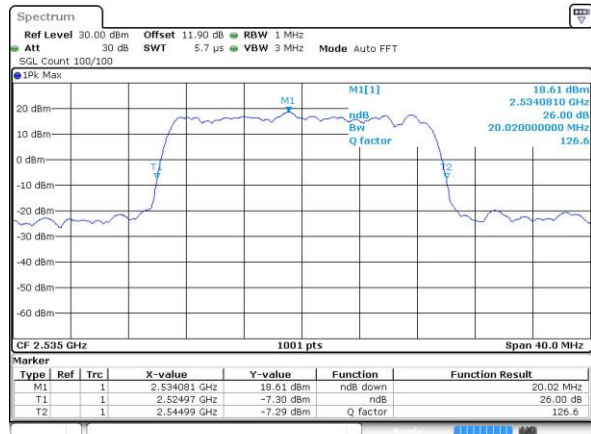
Date: 29 AUG 2018 15:33:28

Middle Channel / 20MHz / QPSK



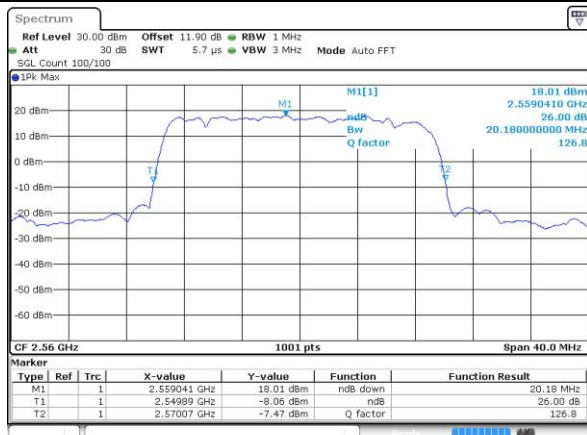
Date: 29 AUG 2018 15:40:44

Middle Channel / 20MHz / 16QAM



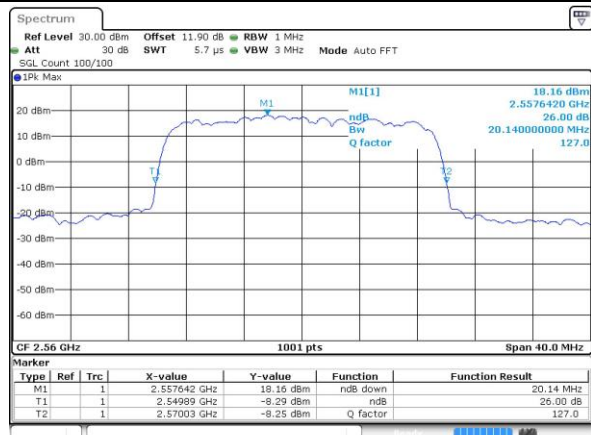
Date: 29 AUG 2018 15:40:56

Highest Channel / 20MHz / QPSK



Date: 29 AUG 2018 15:43:29

Highest Channel / 20MHz / 16QAM

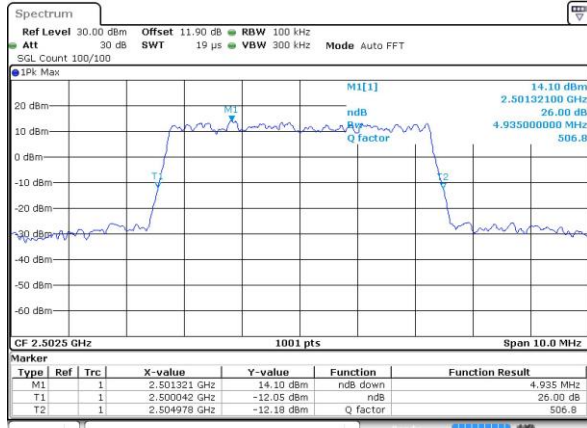


Date: 29 AUG 2018 15:43:40



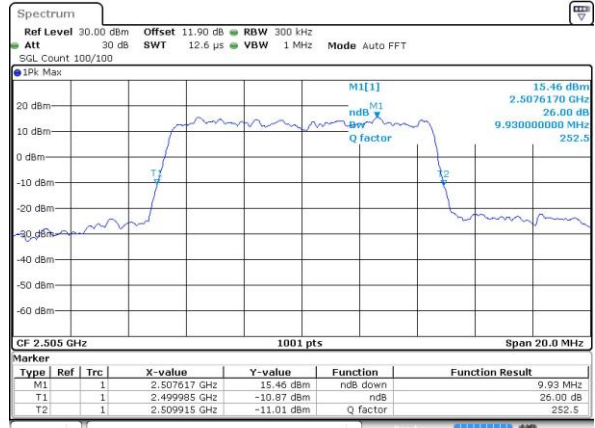
LTE Band 7

Lowest Channel / 5MHz / 64QAM



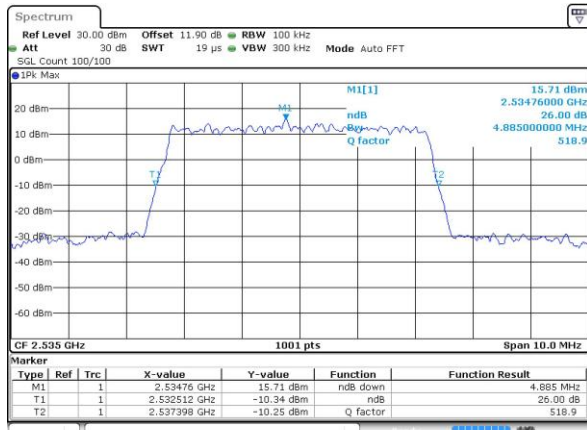
Date: 15 NOV 2018 02:32:21

Lowest Channel / 10MHz / 64QAM



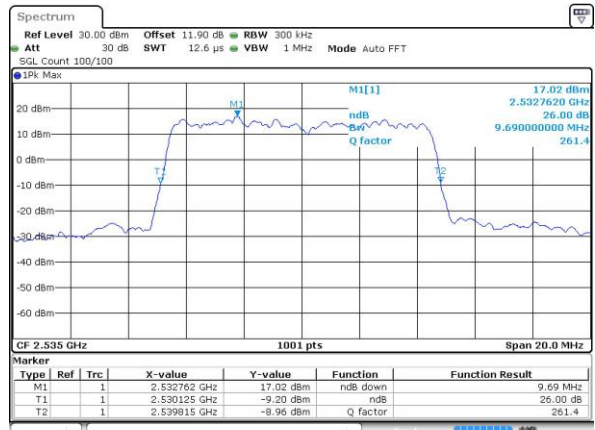
Date: 15 NOV 2018 02:40:34

Middle Channel / 5MHz / 64QAM



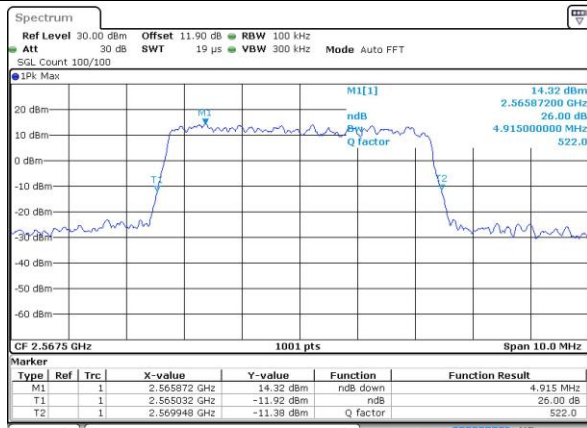
Date: 15 NOV 2018 02:35:45

Middle Channel / 10MHz / 64QAM



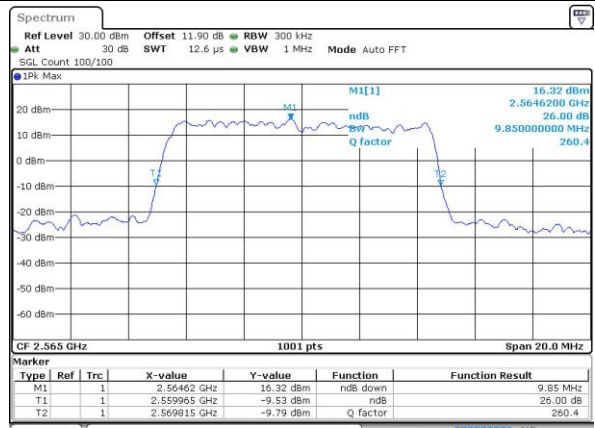
Date: 15 NOV 2018 02:43:59

Highest Channel / 5MHz / 64QAM



Date: 15 NOV 2018 02:37:09

Highest Channel / 10MHz / 64QAM

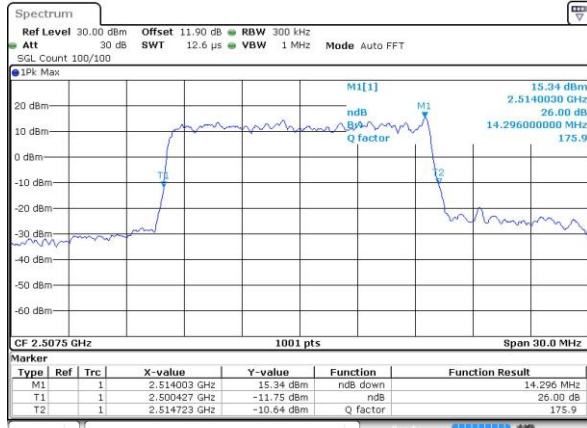


Date: 15 NOV 2018 02:45:23

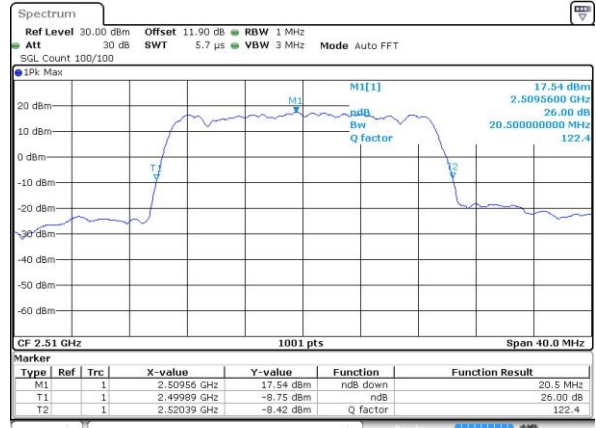


LTE Band 7

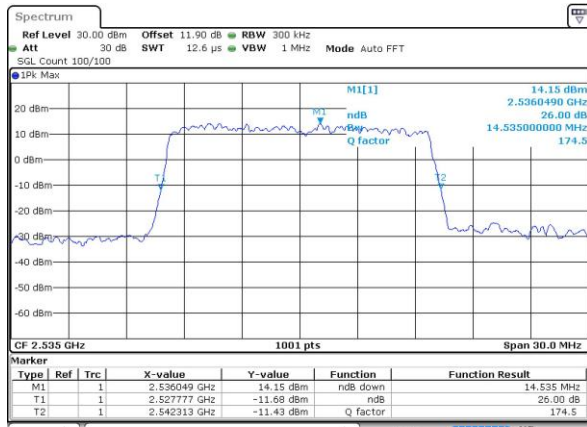
Lowest Channel / 15MHz / 64QAM



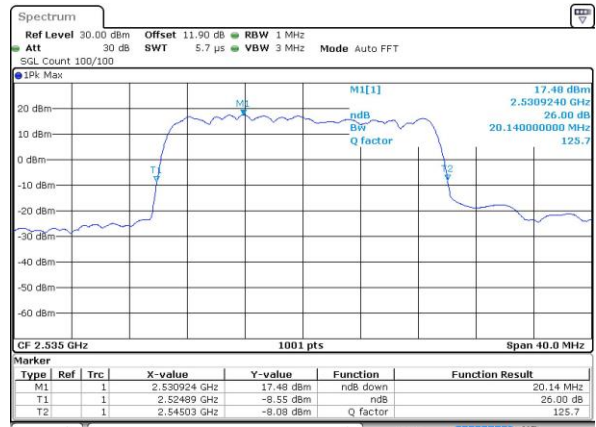
Lowest Channel / 20MHz / 64QAM



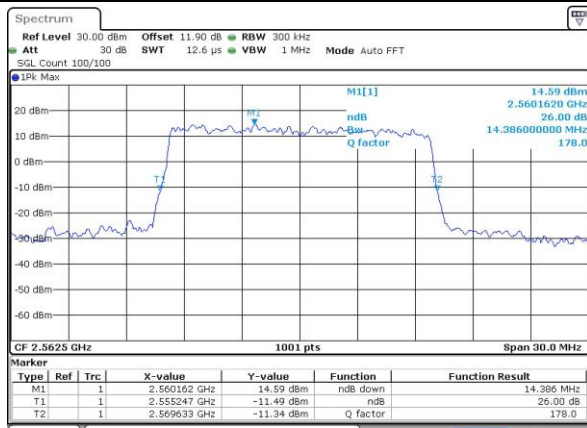
Middle Channel / 15MHz / 64QAM



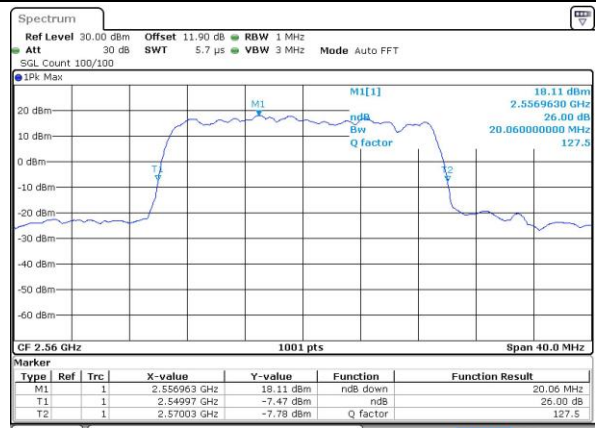
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



**Occupied Bandwidth**

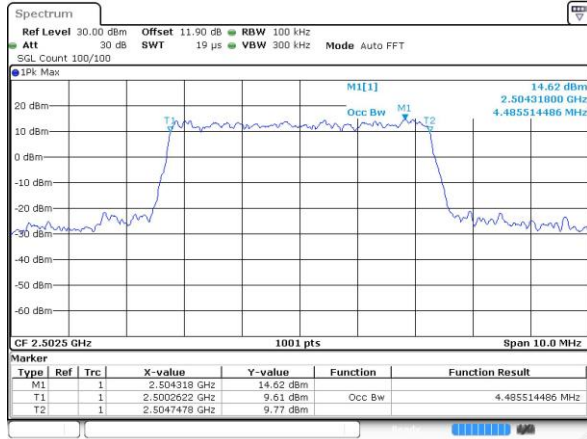
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.51	9.03	9.01	13.4	13.43	18.26	18.38
Middle CH	-	-	-	-	4.5	4.47	9.01	8.99	13.46	13.43	18.34	18.38
Highest CH	-	-	-	-	4.5	4.48	9.01	9.05	13.4	13.49	18.18	18.34

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	18.26	-
Middle CH	-	-	-	-	4.49	-	9.03	-	13.49	-	18.26	-
Highest CH	-	-	-	-	4.49	-	9.09	-	13.43	-	18.22	-

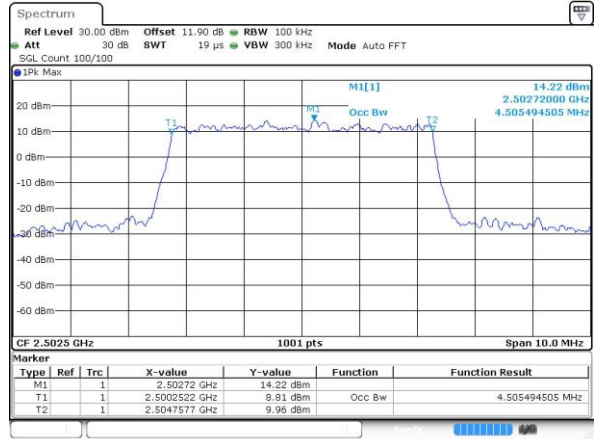


LTE Band 7

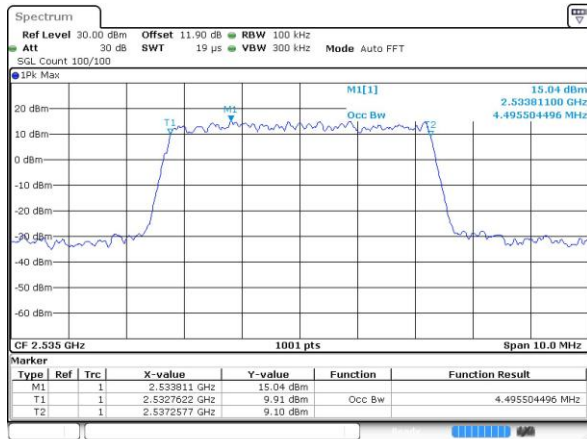
Lowest Channel / 5MHz / QPSK



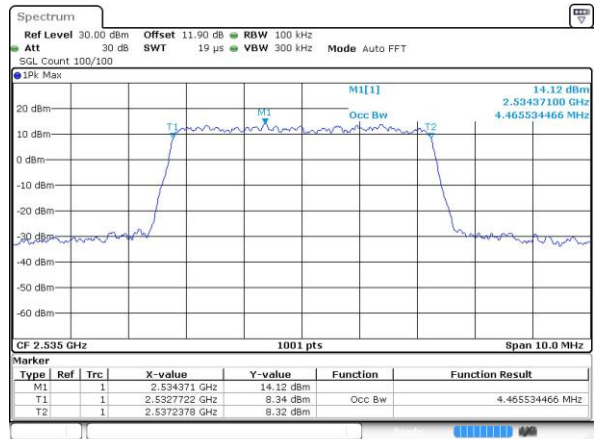
Lowest Channel / 5MHz / 16QAM



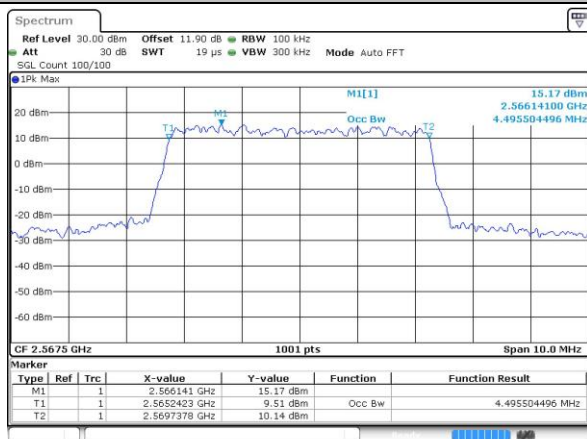
Middle Channel / 5MHz / QPSK



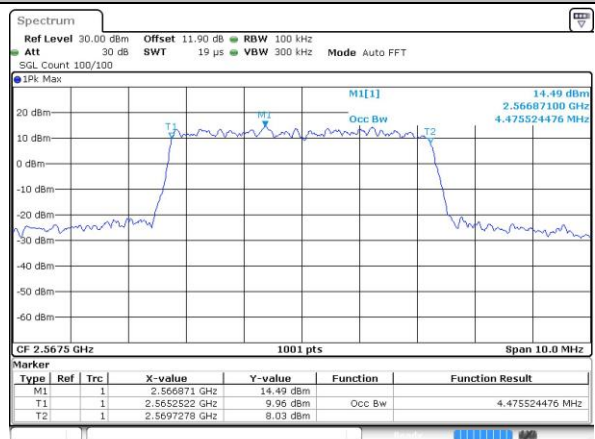
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



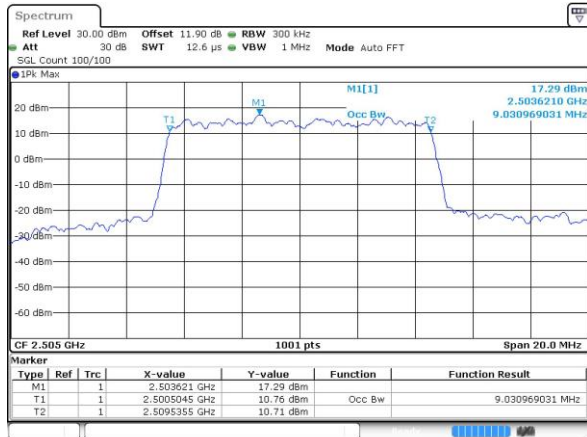
Highest Channel / 5MHz / 16QAM



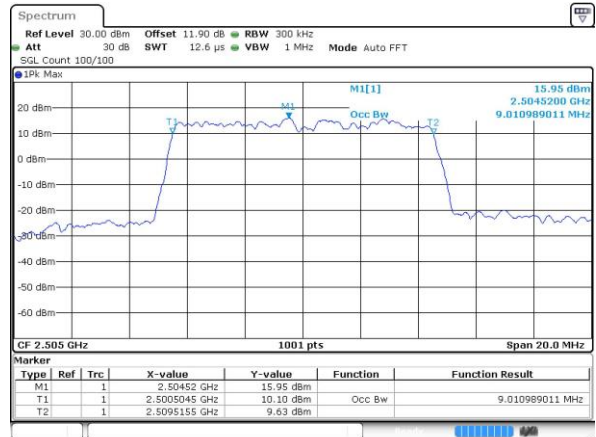


LTE Band 7

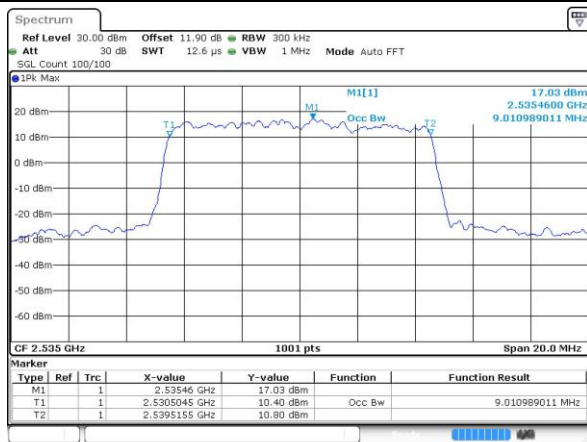
Lowest Channel / 10MHz / QPSK



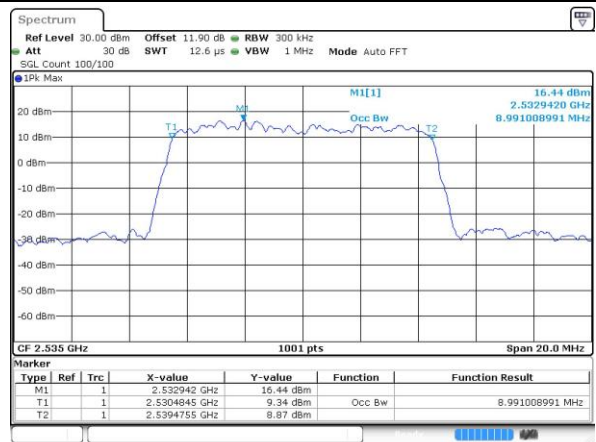
Lowest Channel / 10MHz / 16QAM



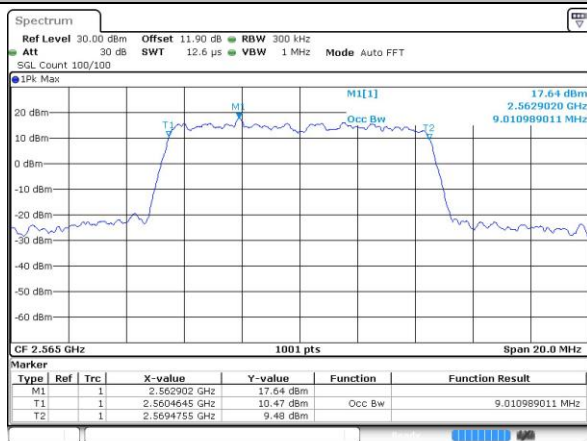
Middle Channel / 10MHz / QPSK



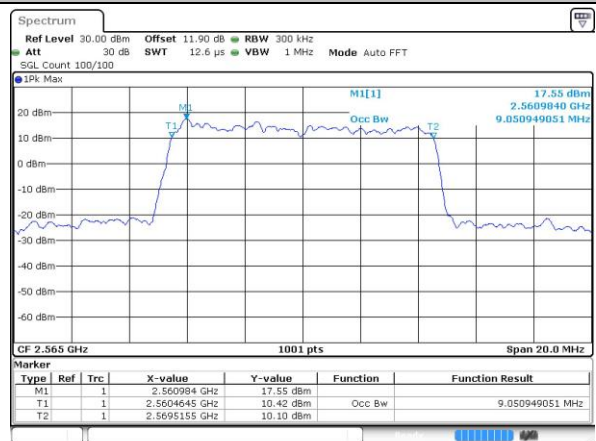
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



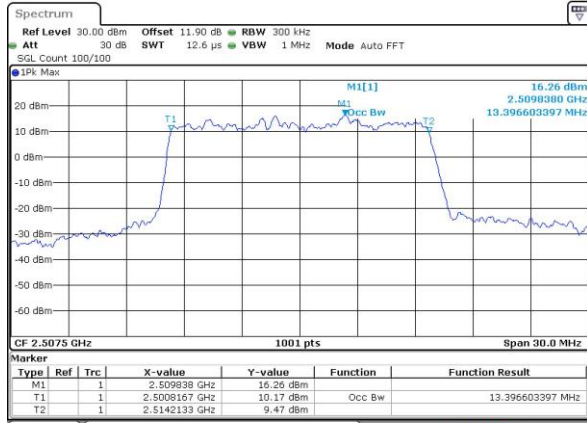
Highest Channel / 10MHz / 16QAM





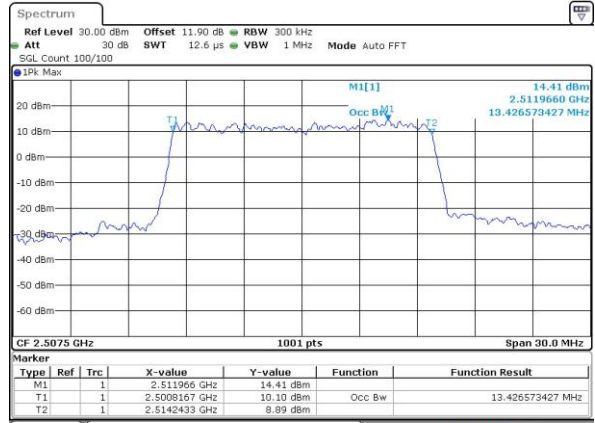
LTE Band 7

Lowest Channel / 15MHz / QPSK



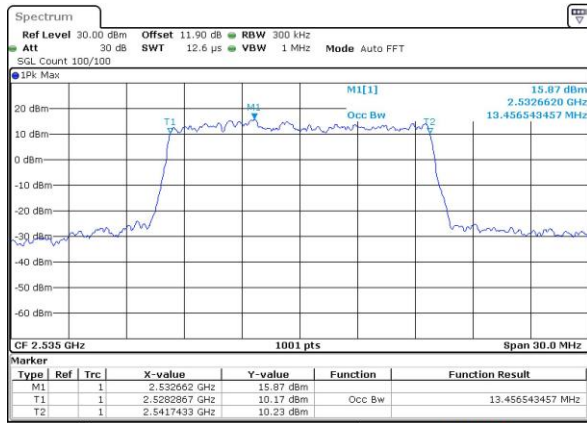
Date: 29 AUG 2018 15:02:55

Lowest Channel / 15MHz / 16QAM



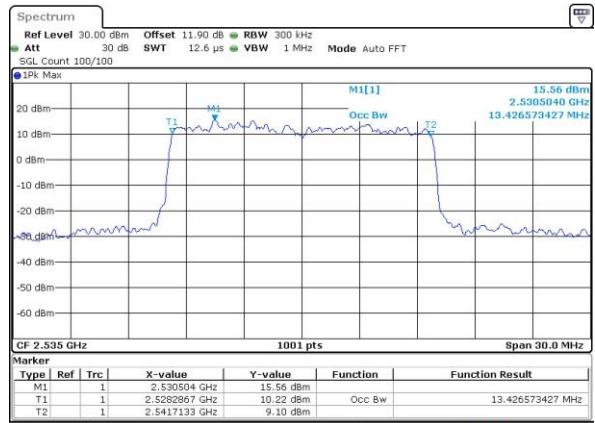
Date: 29 AUG 2018 15:03:06

Middle Channel / 15MHz / QPSK



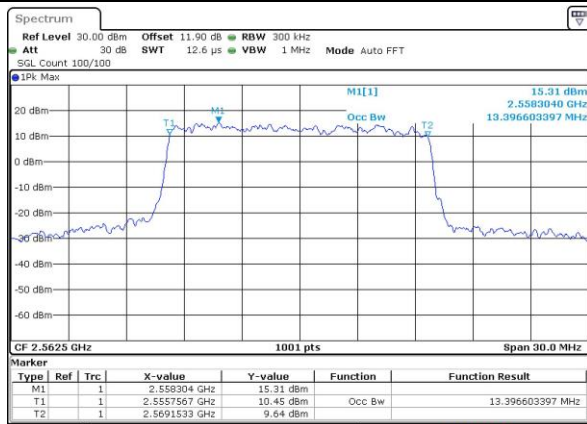
Date: 29 AUG 2018 15:10:22

Middle Channel / 15MHz / 16QAM



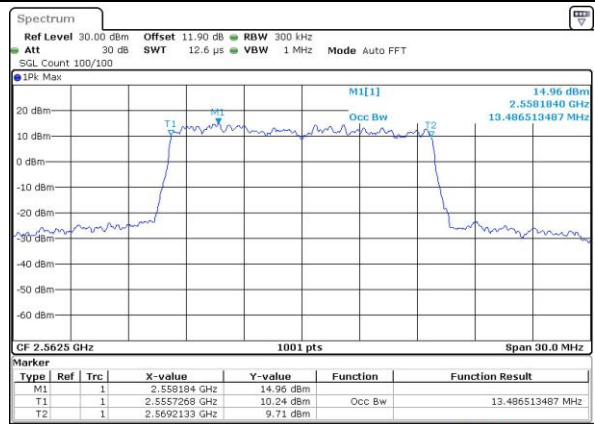
Date: 29 AUG 2018 15:10:34

Highest Channel / 15MHz / QPSK



Date: 29 AUG 2018 15:13:07

Highest Channel / 15MHz / 16QAM



Date: 29 AUG 2018 15:13:18