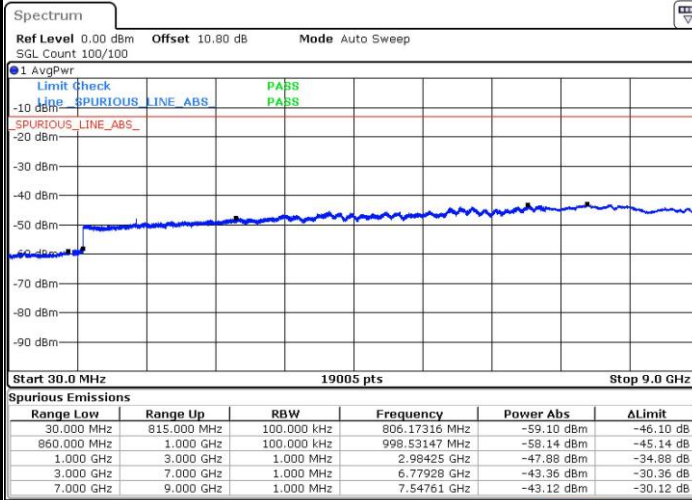




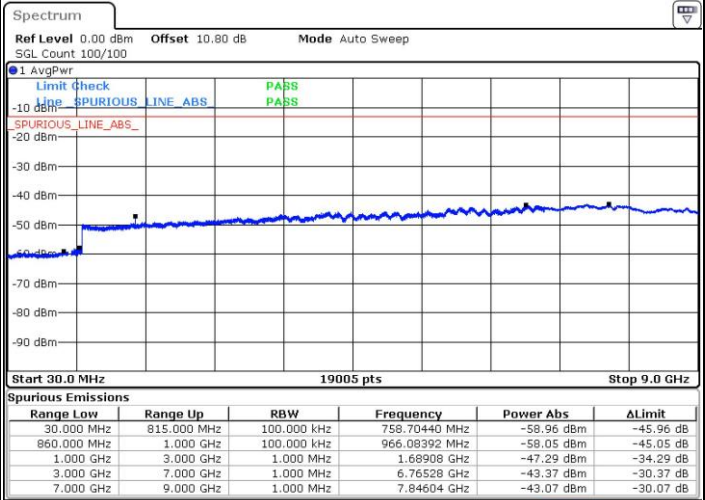
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 25 SEP 2018 10:30:45

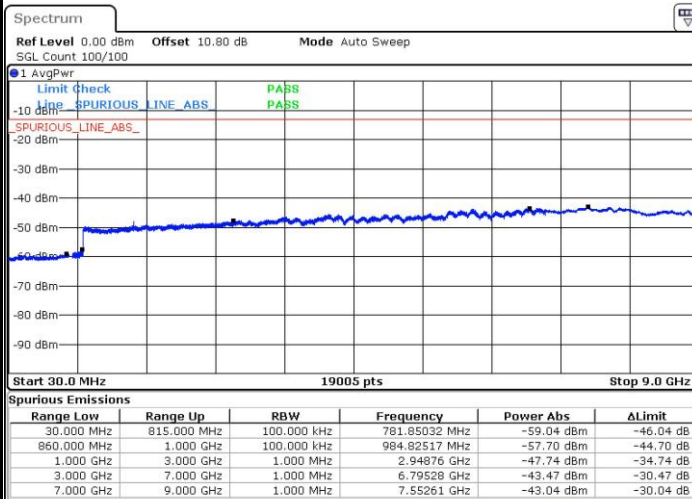
Highest Channel / 16QAM



Date: 25 SEP 2018 10:31:45

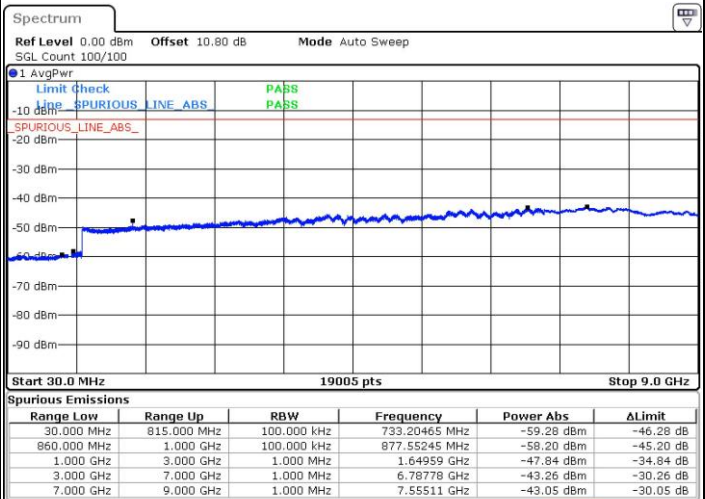
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 25 SEP 2018 10:40:11

Lowest Channel / 16QAM

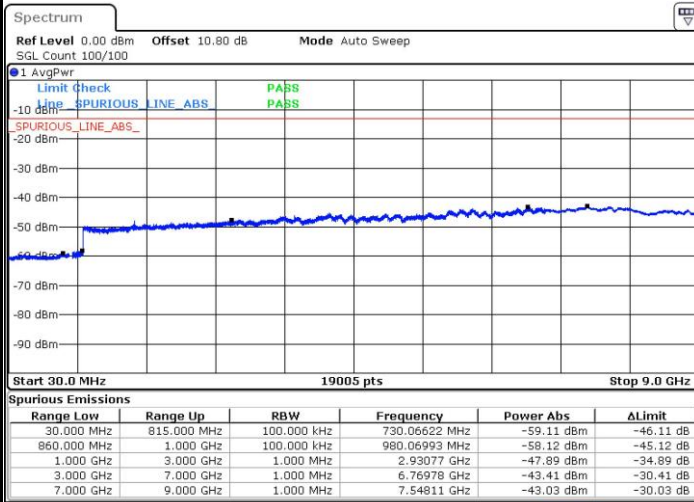


Date: 25 SEP 2018 10:41:11



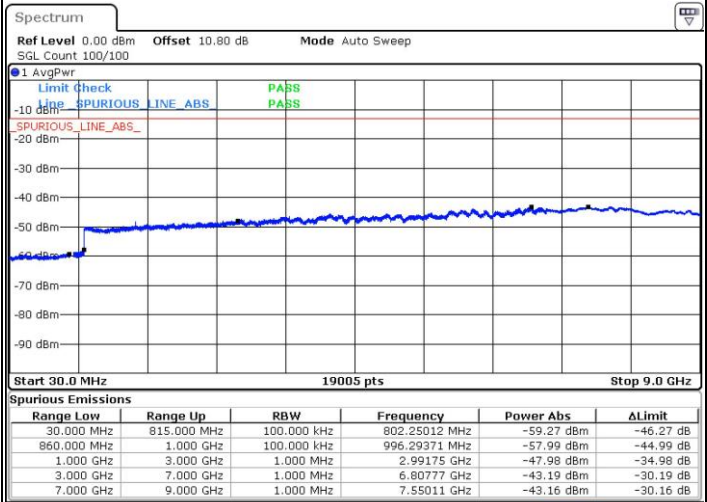
LTE Band 5 / 10MHz

Middle Channel / QPSK



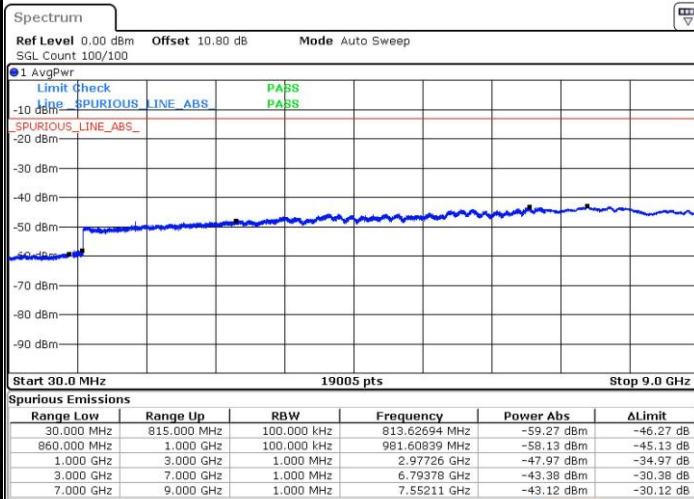
Date: 25 SEP 2018 10:42:57

Middle Channel / 16QAM



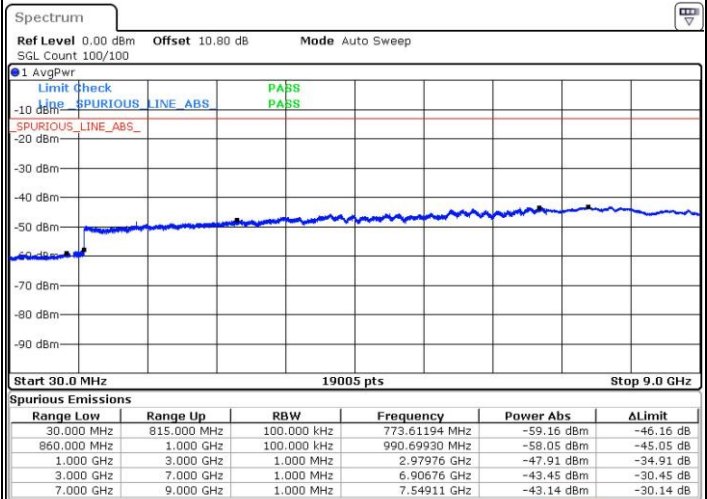
Date: 25 SEP 2018 10:43:57

Highest Channel / QPSK



Date: 25 SEP 2018 10:52:23

Highest Channel / 16QAM

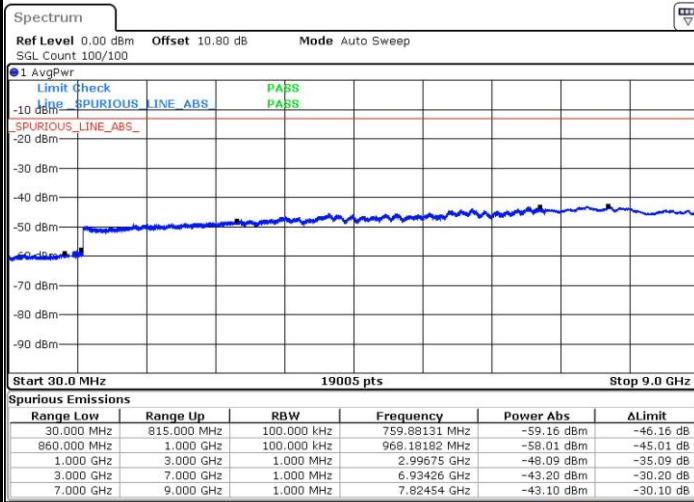


Date: 25 SEP 2018 10:53:23



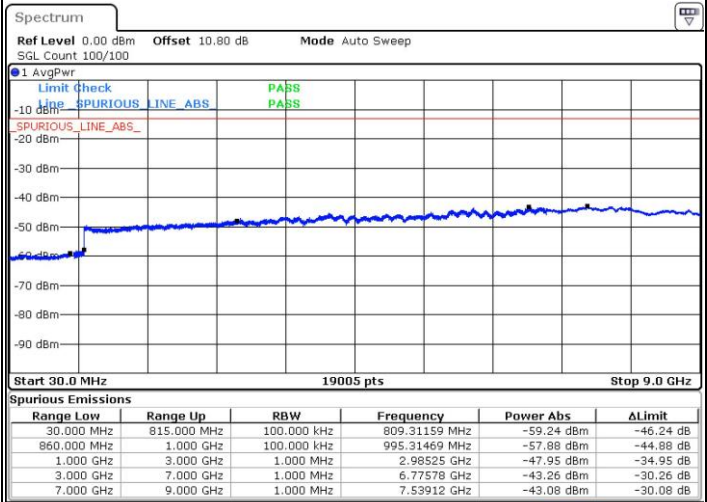
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



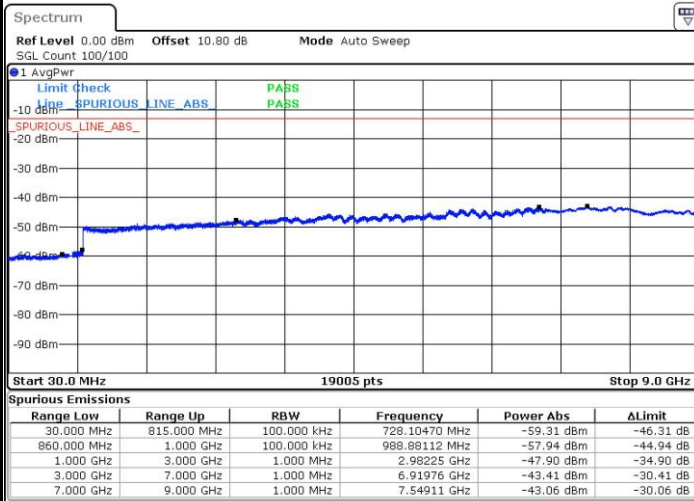
Date: 25 SEP 2018 11:31:47

Middle Channel / 64QAM



Date: 25 SEP 2018 11:33:10

Highest Channel / 64QAM

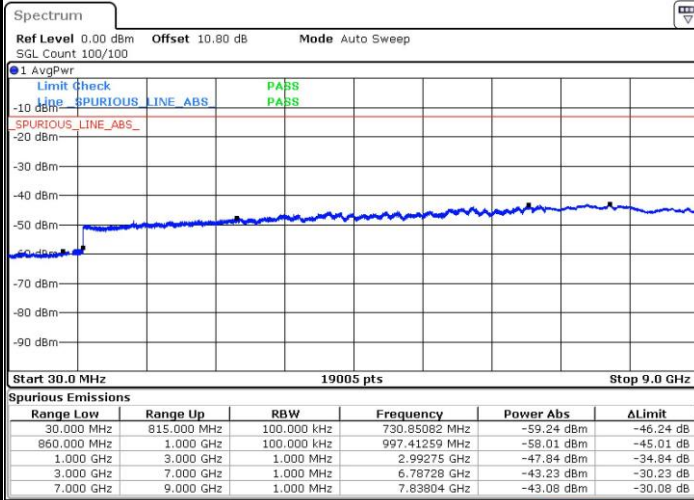


Date: 25 SEP 2018 11:37:53



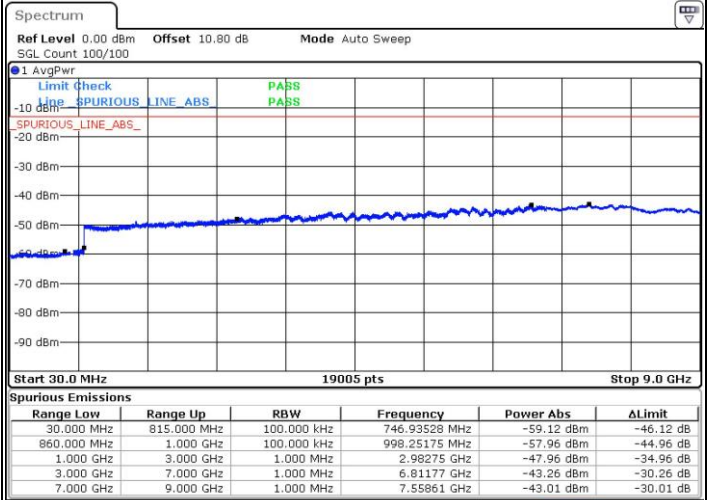
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



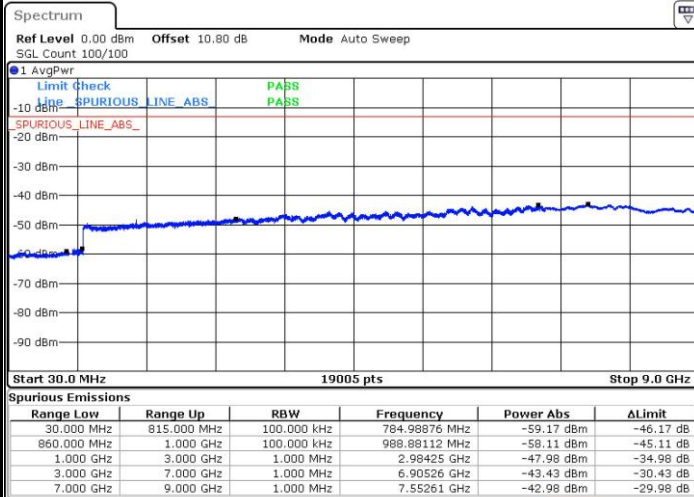
Date: 25 SEP.2018 10:58:06

Middle Channel / 64QAM



Date: 25 SEP.2018 10:59:29

Highest Channel / 64QAM

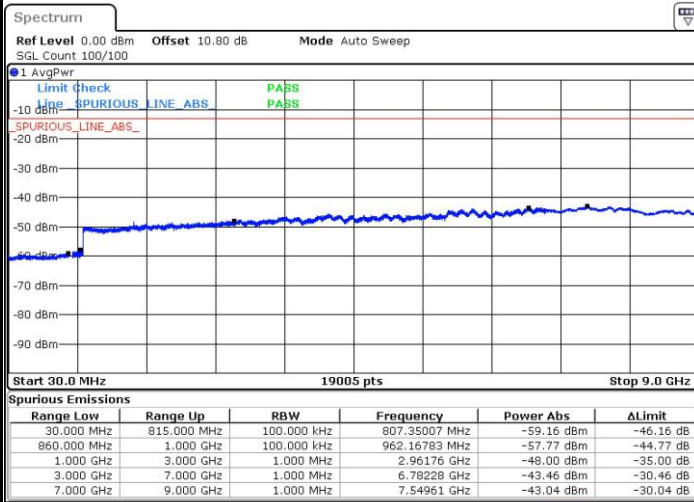


Date: 25 SEP.2018 11:04:12



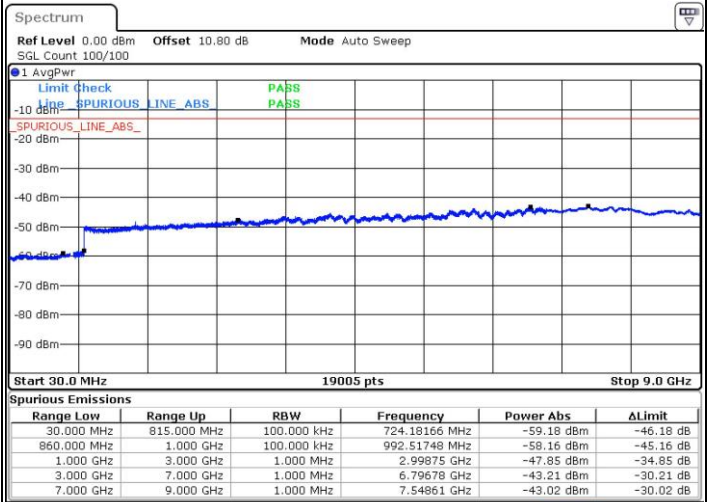
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



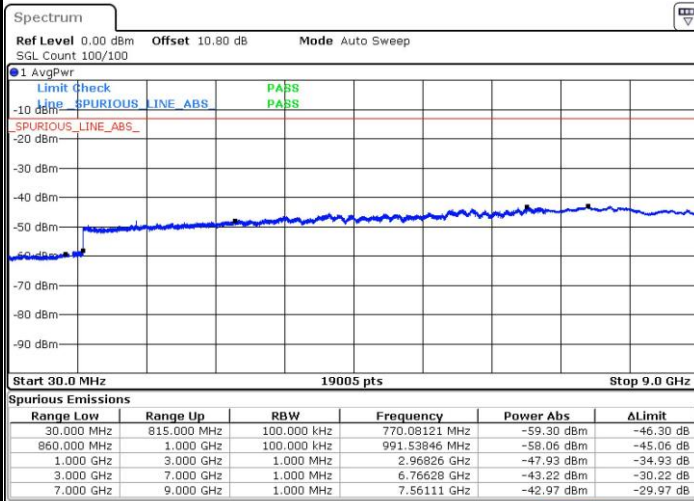
Date: 25 SEP.2018 11:08:55

Middle Channel / 64QAM



Date: 25 SEP.2018 11:10:18

Highest Channel / 64QAM

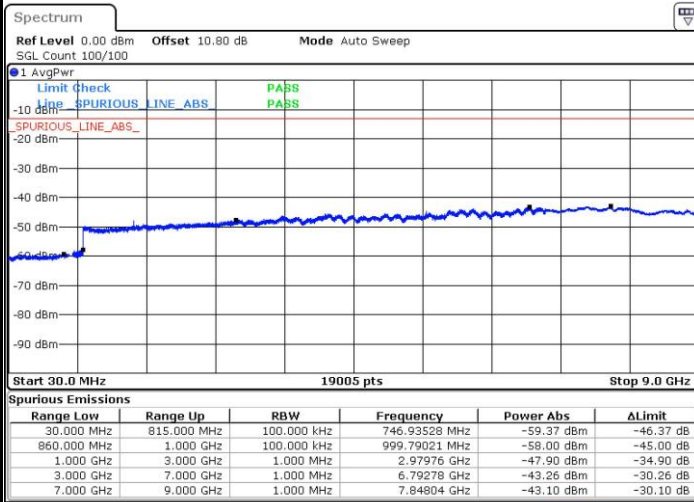


Date: 25 SEP.2018 11:15:01



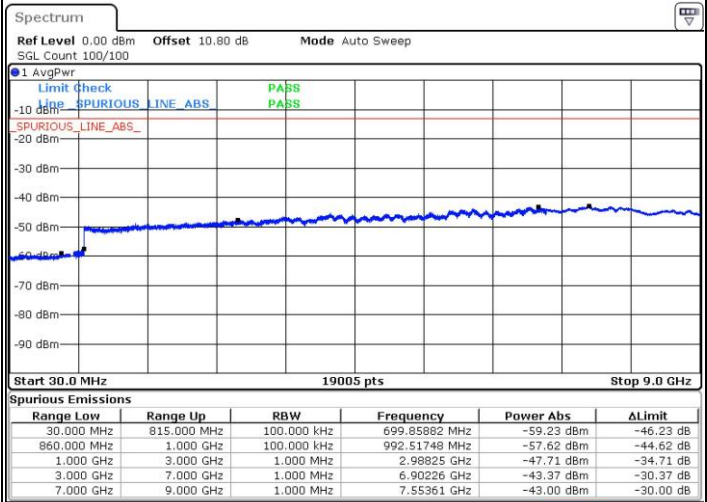
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



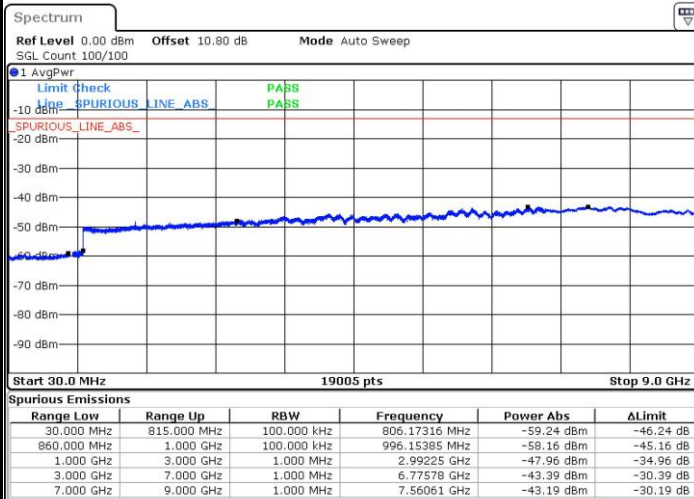
Date: 25 SEP 2018 11:19:44

Middle Channel / 64QAM



Date: 25 SEP 2018 11:21:07

Highest Channel / 64QAM



Date: 25 SEP 2018 11:25:50

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	0.0004	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0134	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0121	
0	Normal Voltage	0.0109	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0137	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 7

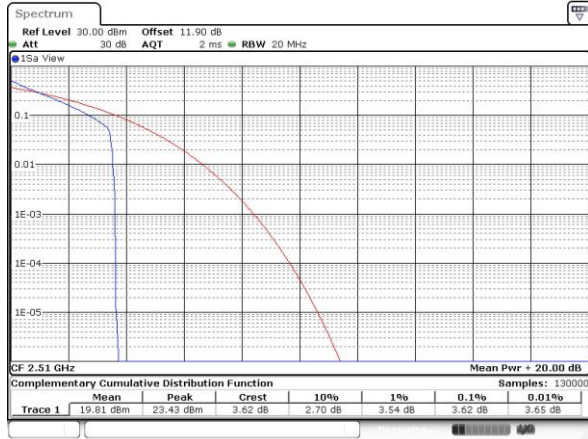
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.52	5.3	5.91	PASS
Middle CH	3.54	4.52	5.01	5.91	
Highest CH	3.74	4.64	5.68	6	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.17	6.35	-	-	PASS
Middle CH	6.67	6.49	-	-	
Highest CH	6.41	6.43	-	-	

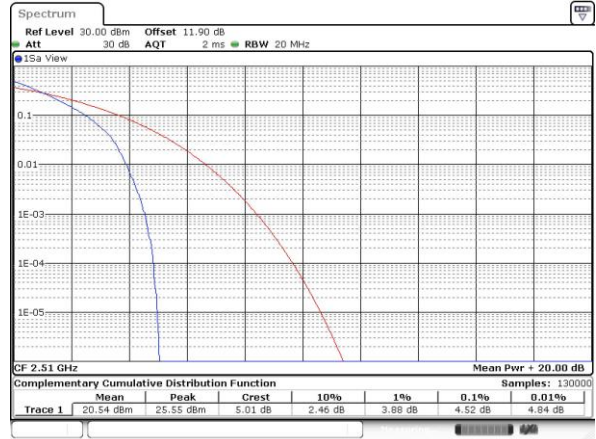


LTE Band 7 / 20MHz / QPSK

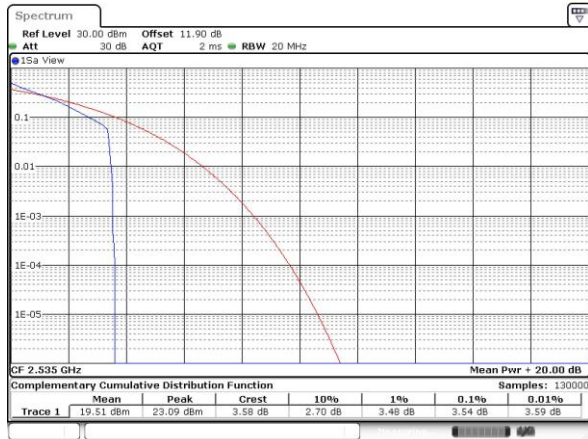
Lowest Channel / 1RB



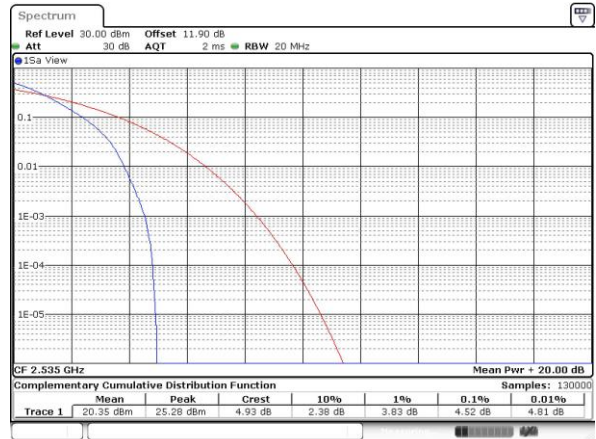
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



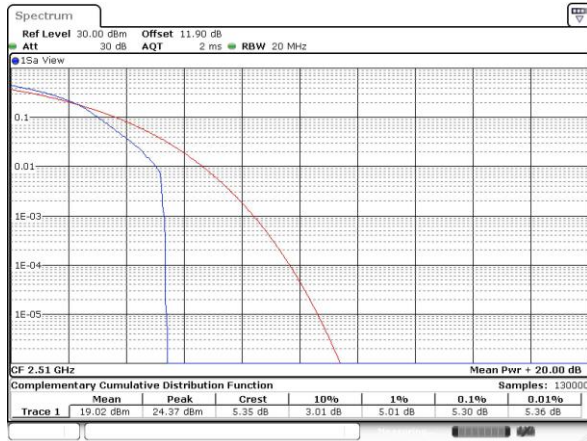
Highest Channel / Full RB



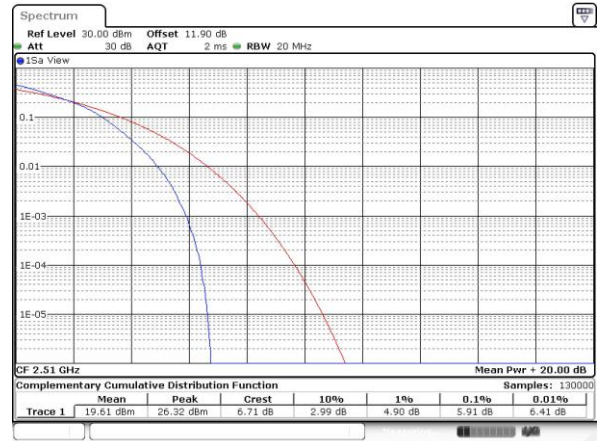


LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



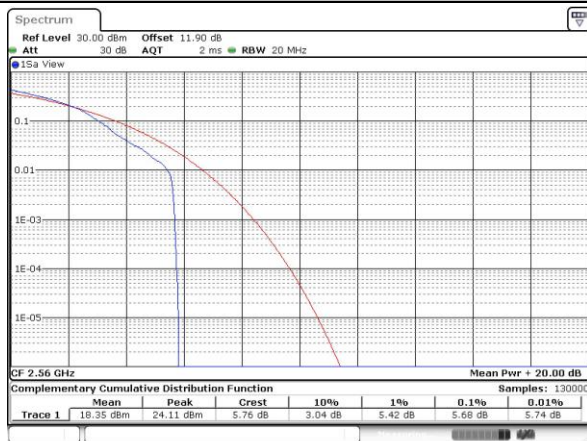
Middle Channel / 1RB



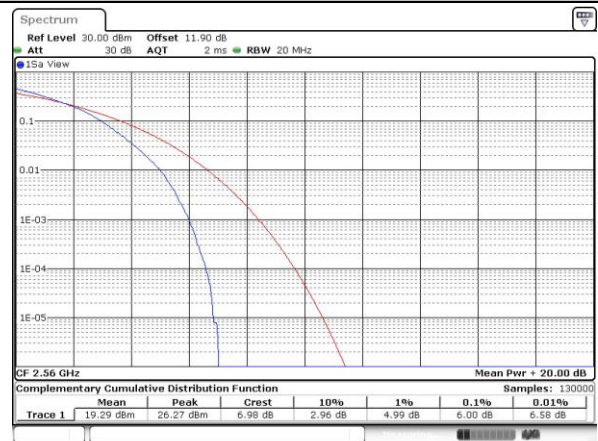
Middle Channel / Full RB



Highest Channel / 1RB



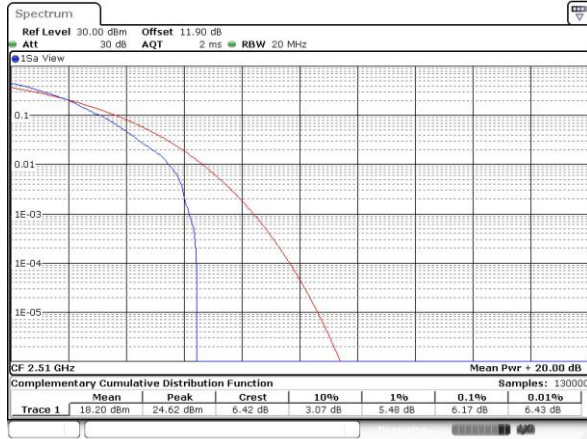
Highest Channel / Full RB



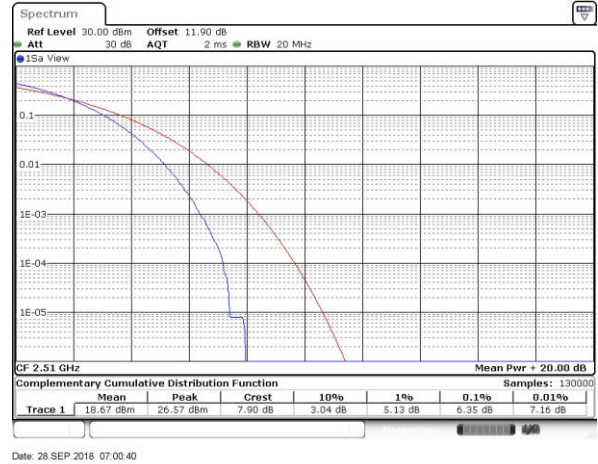


LTE Band 7 / 20MHz / 64QAM

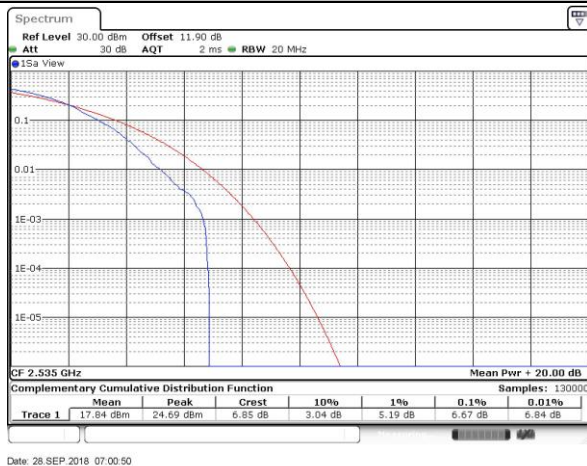
Lowest Channel / 1RB



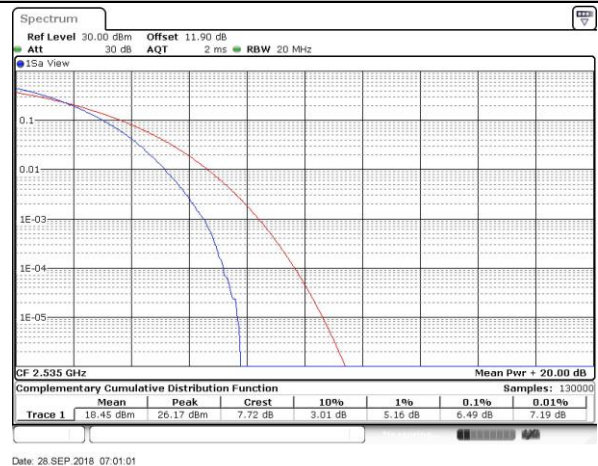
Lowest Channel / Full RB



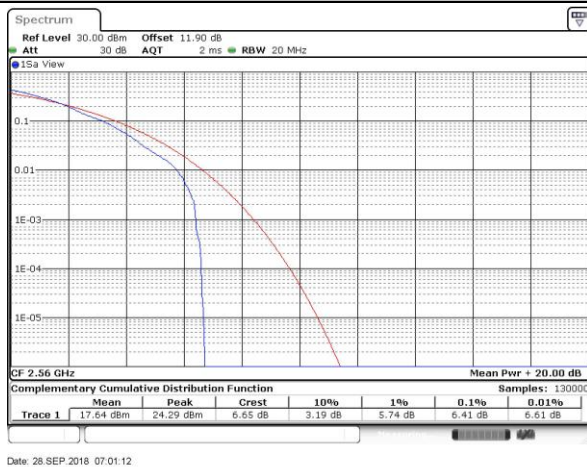
Middle Channel / 1RB



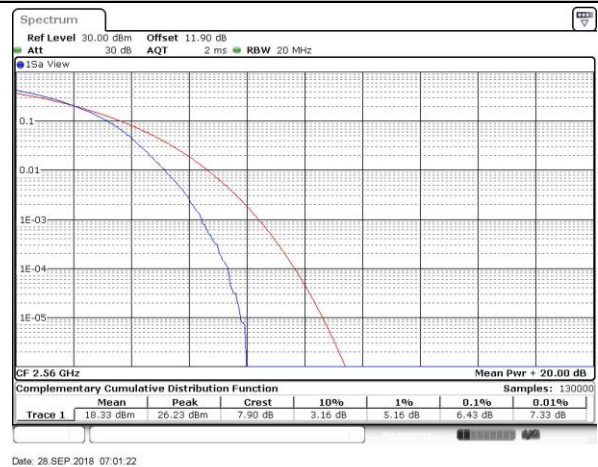
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



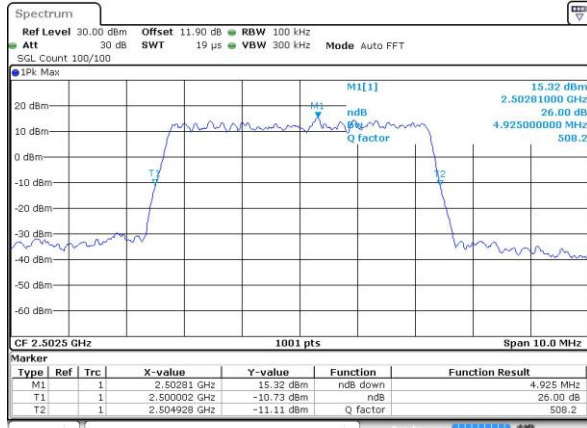
**26dB Bandwidth**

Mode	LTE Band 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	-	-	-	-	4.93	4.86	9.77	9.71	14.45	14.15	20.18	20.10
Middle CH	-	-	-	-	4.92	4.92	9.83	9.81	14.48	14.39	20.10	20.06
Highest CH	-	-	-	-	5.00	4.85	9.83	9.91	14.30	14.51	20.18	20.18
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.81	-	9.67	-	14.45	-	20.10	-
Middle CH	-	-	-	-	4.94	-	9.65	-	14.36	-	20.06	-
Highest CH	-	-	-	-	4.86	-	9.95	-	14.36	-	20.22	-



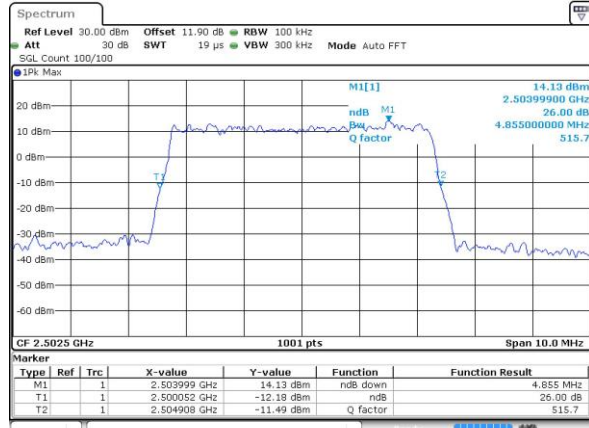
LTE Band 7

Lowest Channel / 5MHz / QPSK



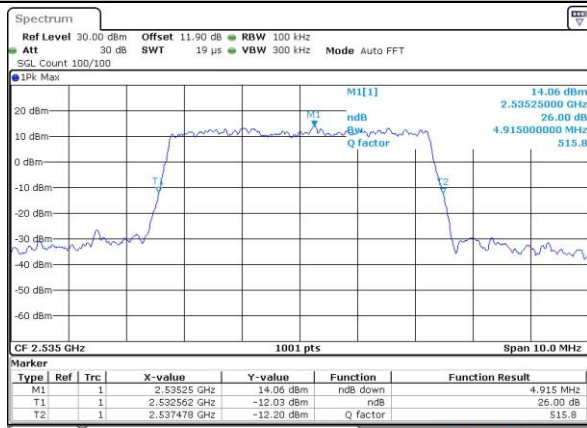
Date: 28 SEP 2018 05:13:38

Lowest Channel / 5MHz / 16QAM



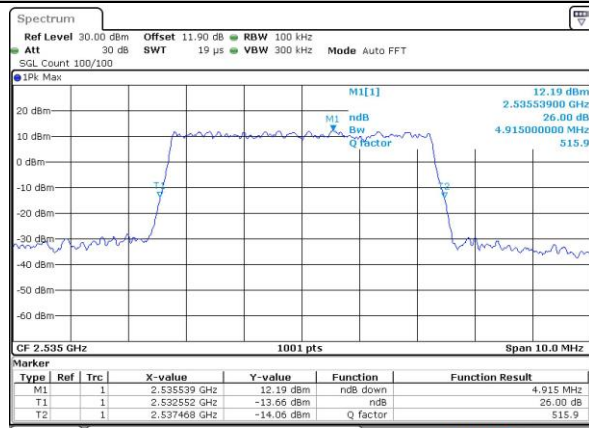
Date: 28 SEP 2018 05:13:49

Middle Channel / 5MHz / QPSK



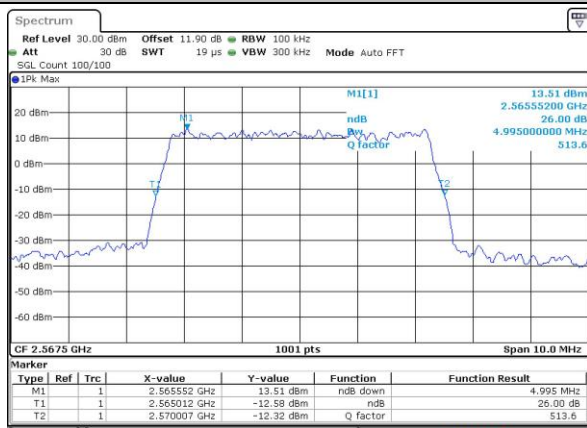
Date: 28 SEP 2018 05:20:55

Middle Channel / 5MHz / 16QAM



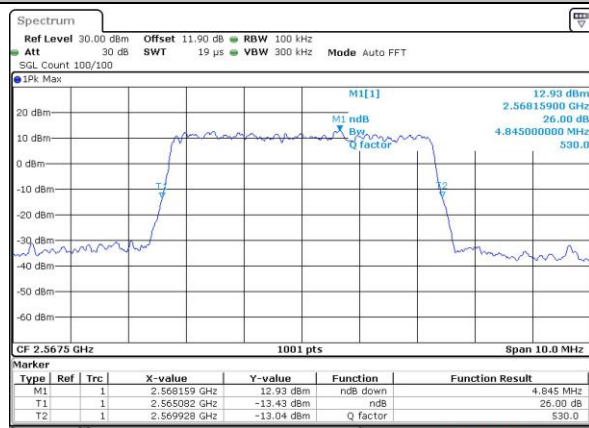
Date: 28 SEP 2018 05:21:07

Highest Channel / 5MHz / QPSK



Date: 28 SEP 2018 05:23:30

Highest Channel / 5MHz / 16QAM

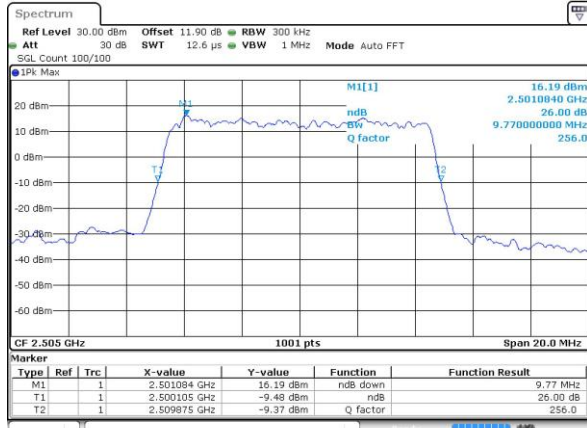


Date: 28 SEP 2018 05:23:41

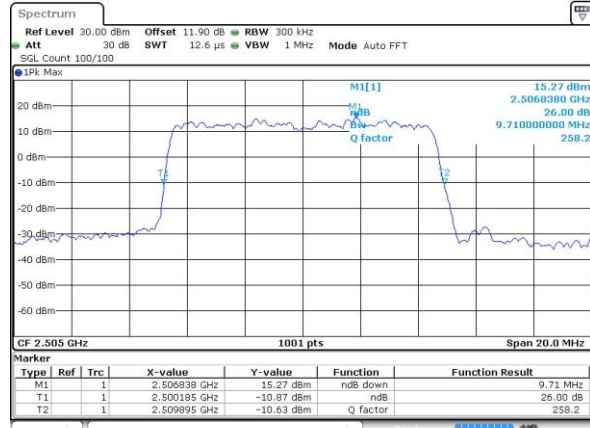


LTE Band 7

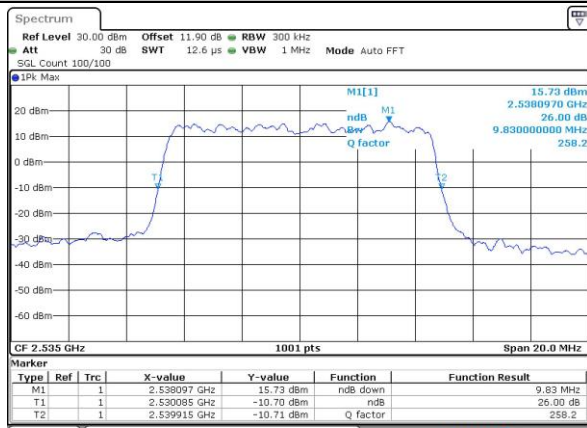
Lowest Channel / 10MHz / QPSK



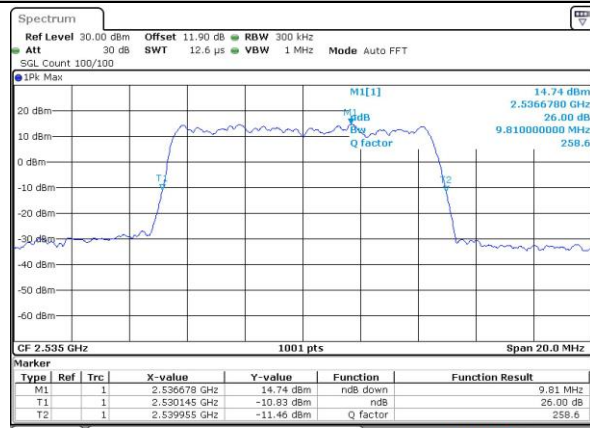
Lowest Channel / 10MHz / 16QAM



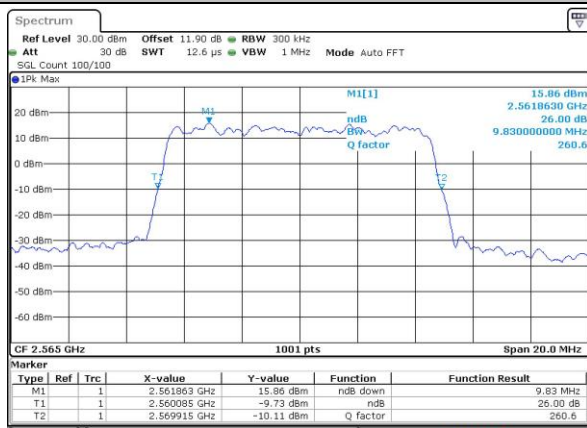
Middle Channel / 10MHz / QPSK



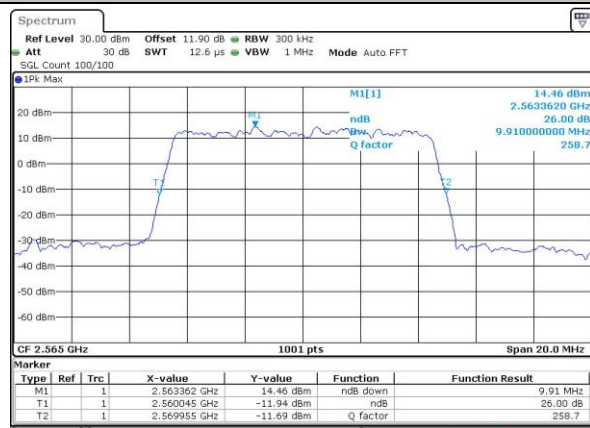
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



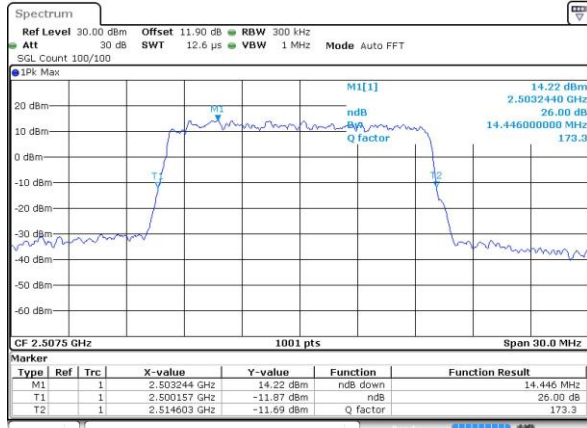
Highest Channel / 10MHz / 16QAM





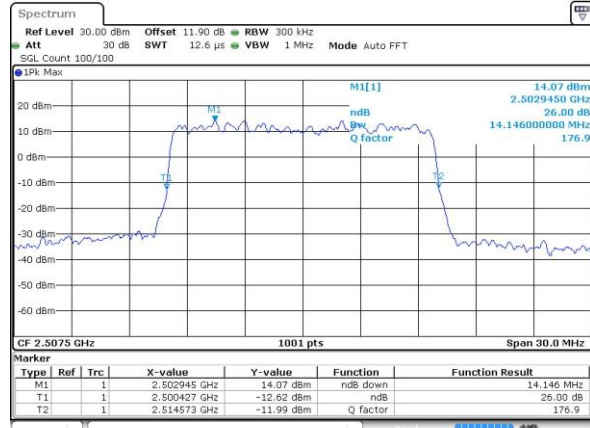
LTE Band 7

Lowest Channel / 15MHz / QPSK



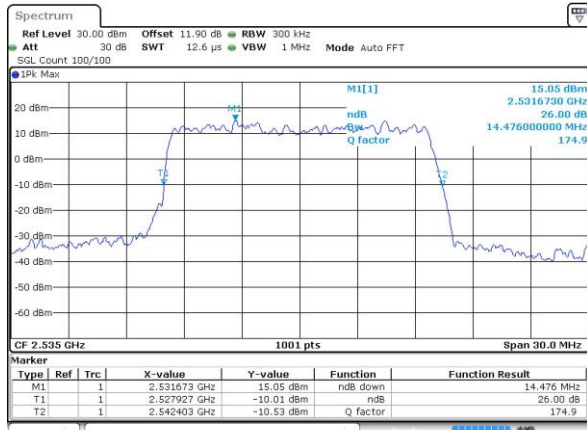
Date: 28 SEP 2018 06:05:07

Lowest Channel / 15MHz / 16QAM



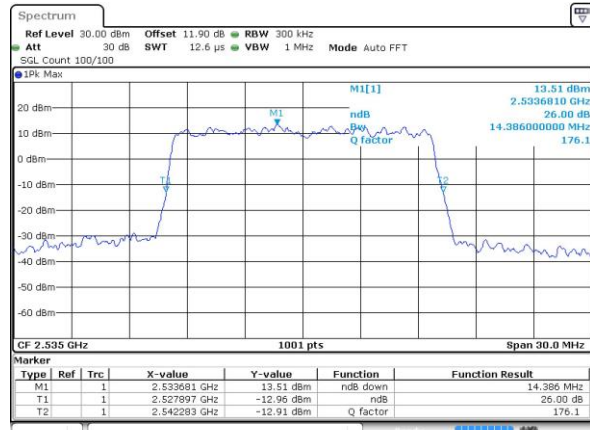
Date: 28 SEP 2018 06:05:18

Middle Channel / 15MHz / QPSK



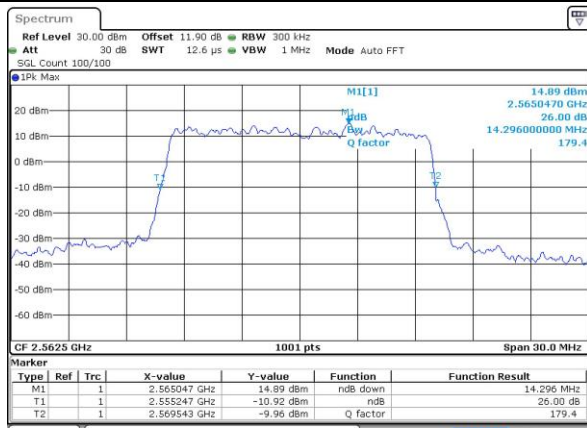
Date: 28 SEP 2018 06:13:54

Middle Channel / 15MHz / 16QAM



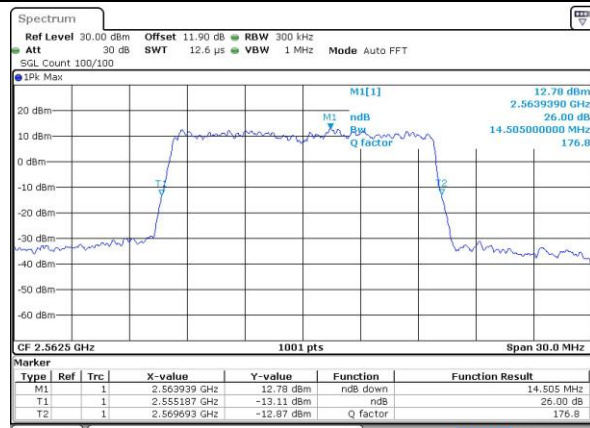
Date: 28 SEP 2018 06:14:05

Highest Channel / 15MHz / QPSK



Date: 28 SEP 2018 06:16:29

Highest Channel / 15MHz / 16QAM

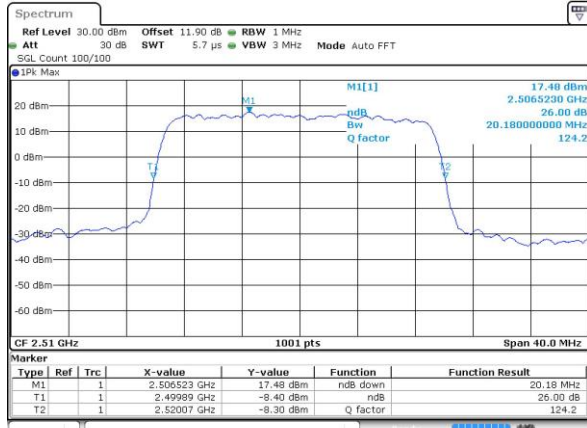


Date: 28 SEP 2018 06:16:40

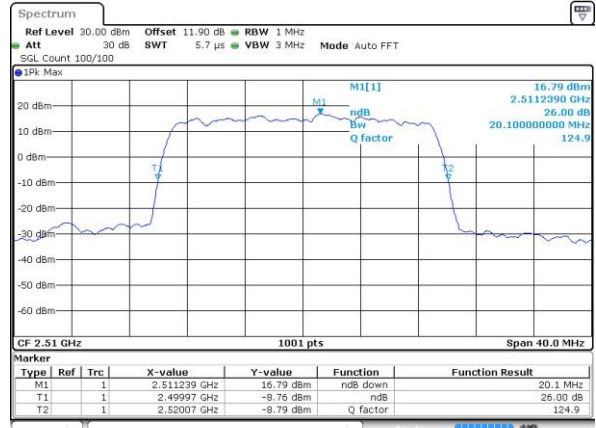


LTE Band 7

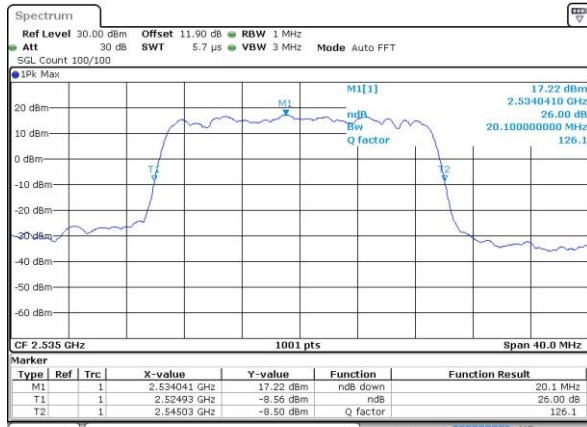
Lowest Channel / 20MHz / QPSK



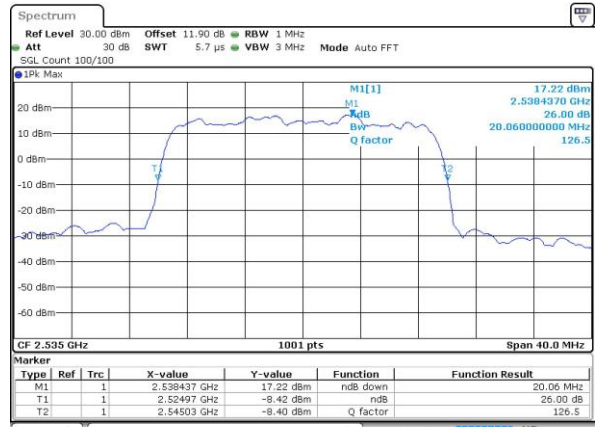
Lowest Channel / 20MHz / 16QAM



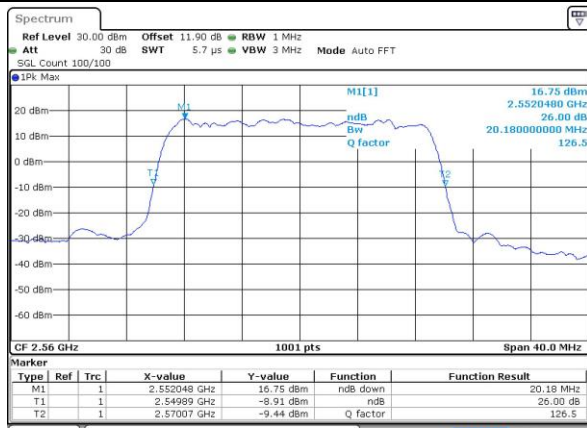
Middle Channel / 20MHz / QPSK



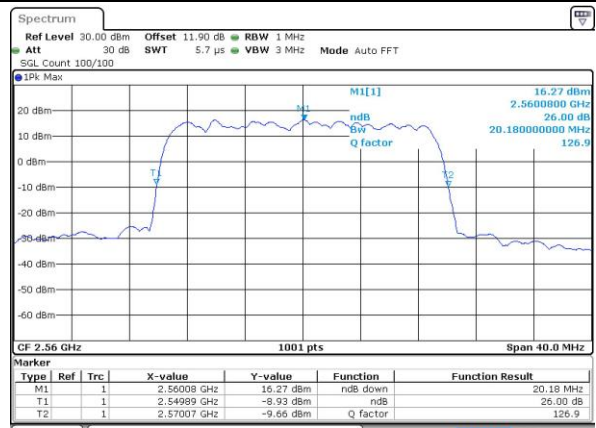
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



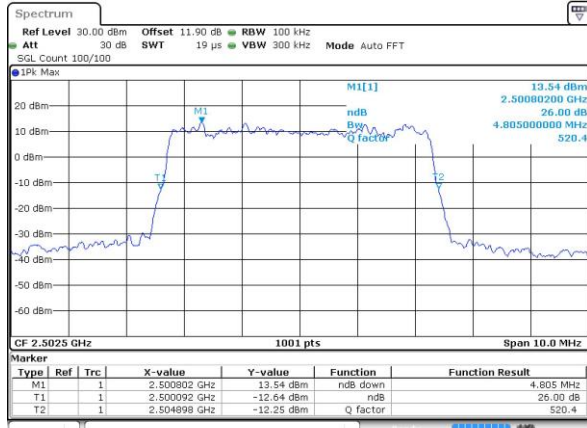
Highest Channel / 20MHz / 16QAM





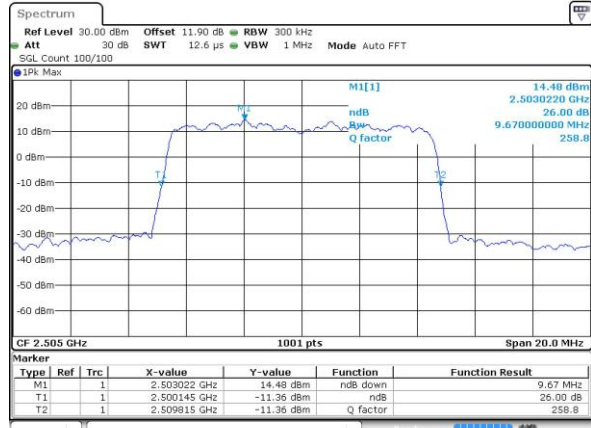
LTE Band 7

Lowest Channel / 5MHz / 64QAM



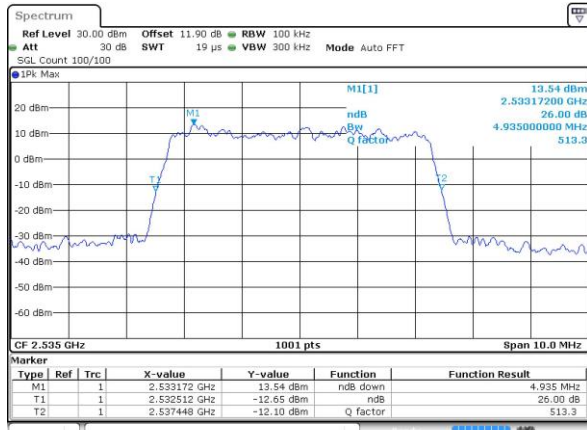
Date: 28 SEP 2018 05:30:36

Lowest Channel / 10MHz / 64QAM



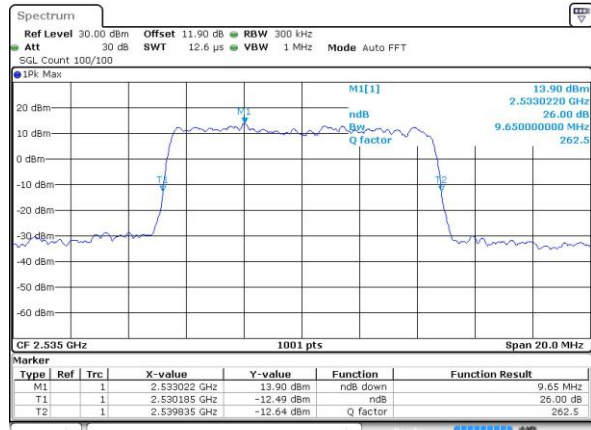
Date: 28 SEP 2018 05:56:21

Middle Channel / 5MHz / 64QAM



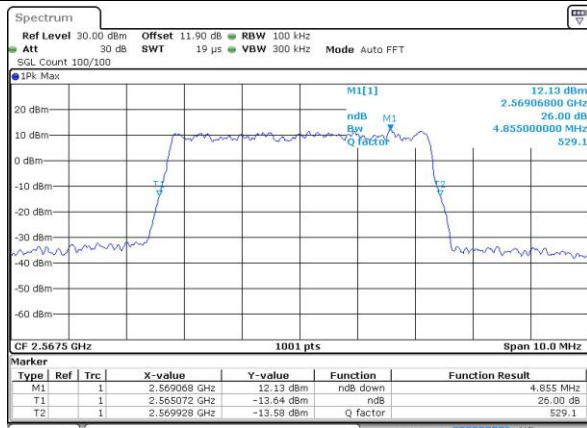
Date: 28 SEP 2018 05:34:15

Middle Channel / 10MHz / 64QAM



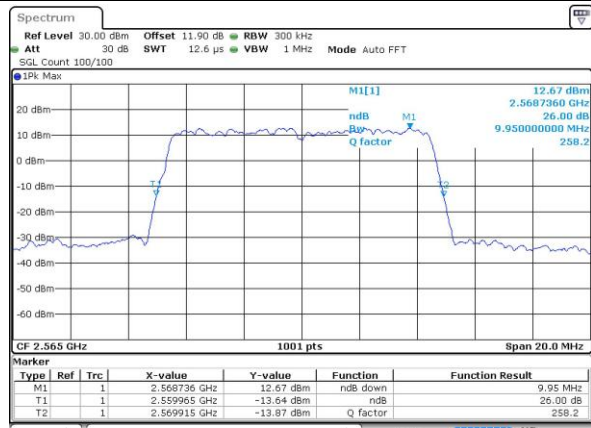
Date: 28 SEP 2018 05:59:59

Highest Channel / 5MHz / 64QAM



Date: 28 SEP 2018 05:35:33

Highest Channel / 10MHz / 64QAM

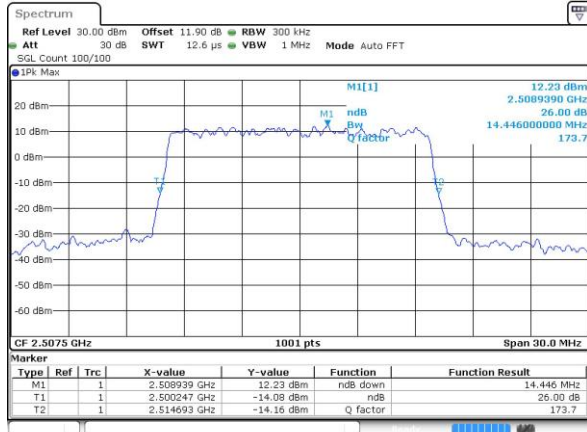


Date: 28 SEP 2018 06:01:17

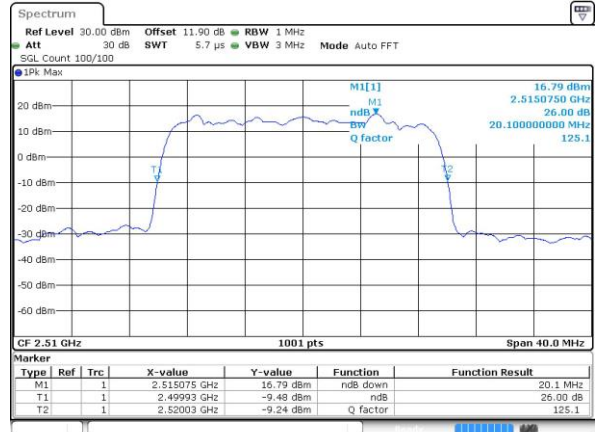


LTE Band 7

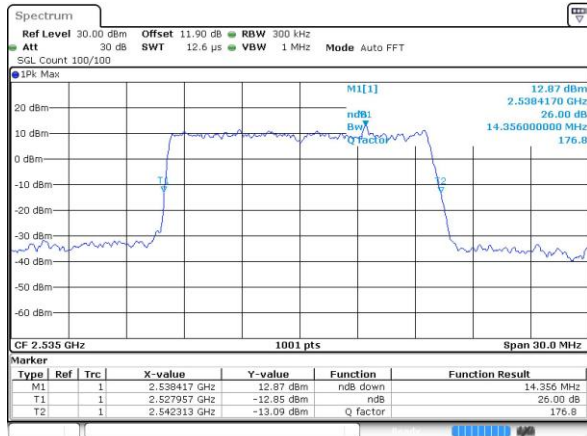
Lowest Channel / 15MHz / 64QAM



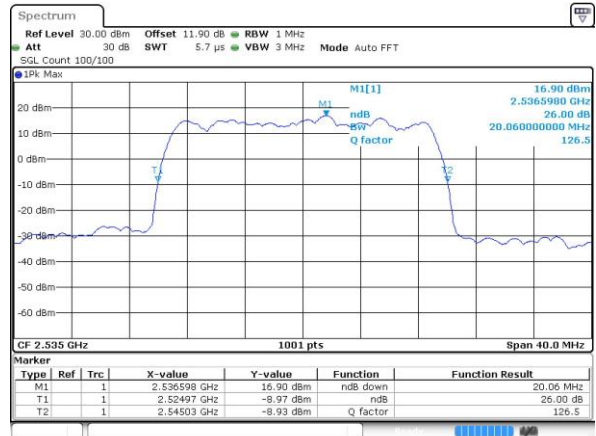
Lowest Channel / 20MHz / 64QAM



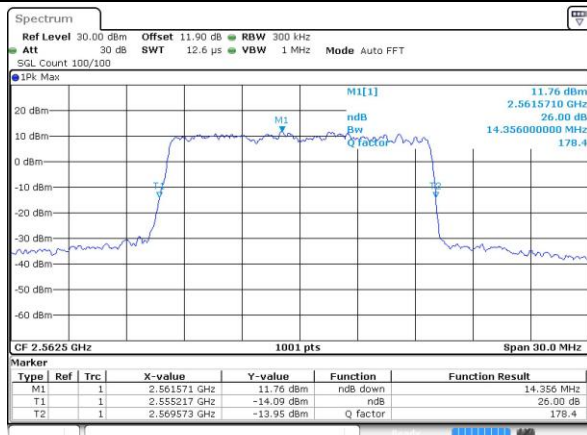
Middle Channel / 15MHz / 64QAM



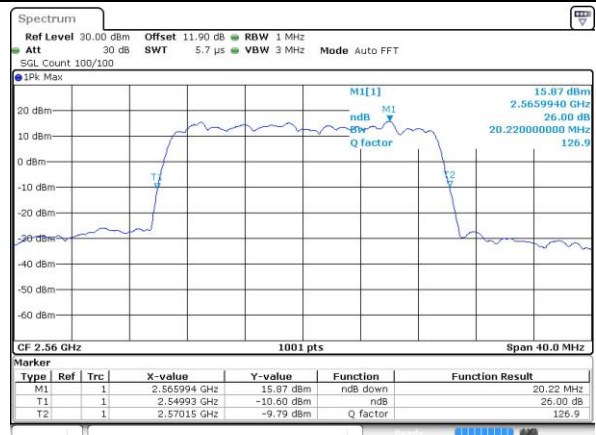
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



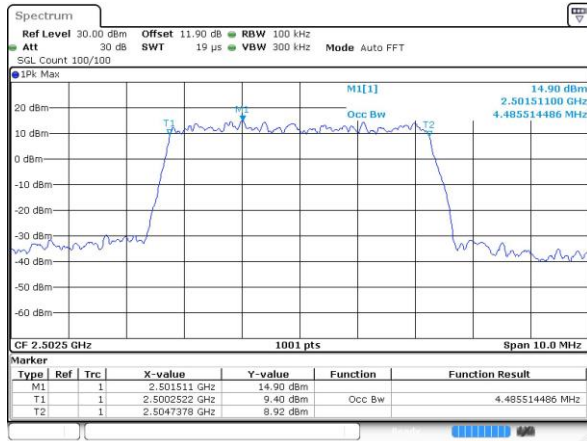
**Occupied Bandwidth**

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	4.5	8.99	8.99	13.43	13.43	18.46	18.26
Middle CH	-	-	-	-	4.5	4.5	9.01	8.97	13.34	13.43	18.26	18.42
Highest CH	-	-	-	-	4.5	4.51	9.01	8.99	13.43	13.4	18.34	18.22
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.01	-	13.43	-	18.38	-
Middle CH	-	-	-	-	4.49	-	8.99	-	13.49	-	18.42	-
Highest CH	-	-	-	-	4.48	-	9.01	-	13.43	-	18.46	-



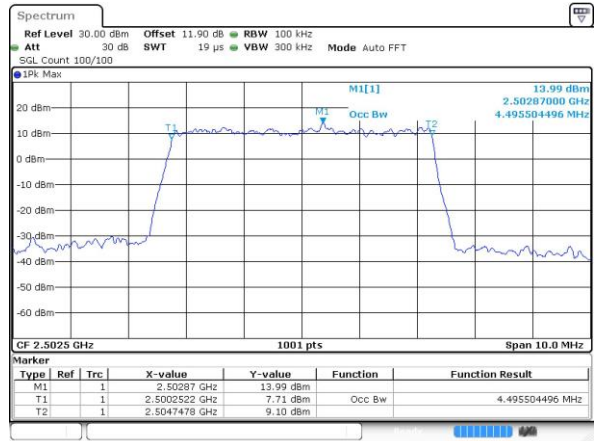
LTE Band 7

Lowest Channel / 5MHz / QPSK



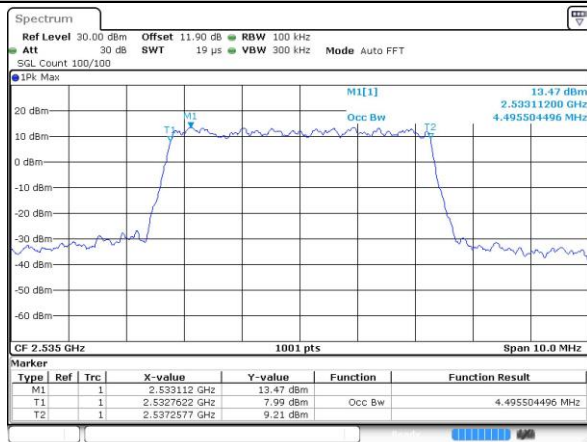
Date: 28 SEP 2018 05:13:15

Lowest Channel / 5MHz / 16QAM



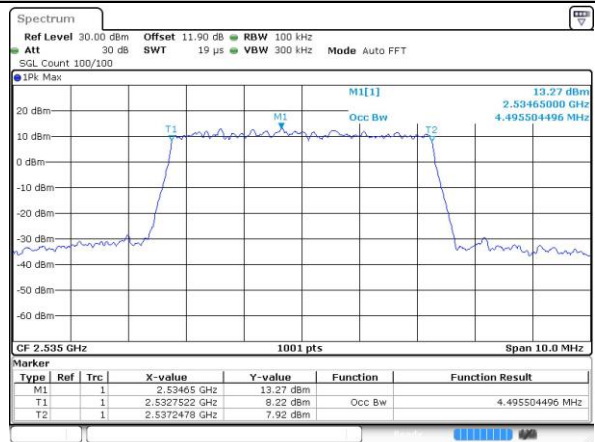
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Middle Channel / 5MHz / QPSK



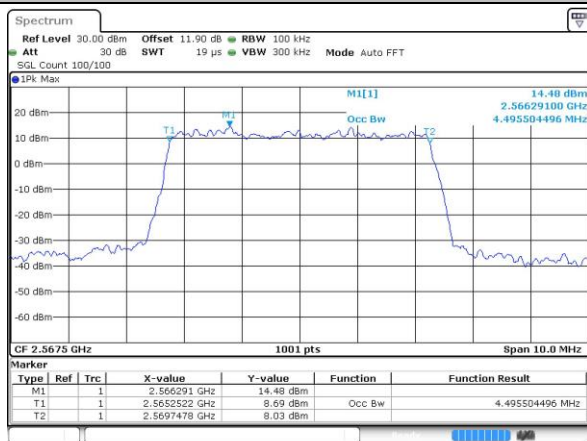
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Middle Channel / 5MHz / 16QAM



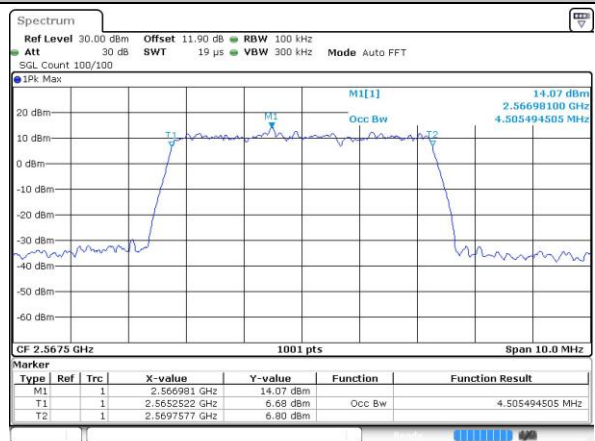
Date: 28 SEP 2018 05:20:44

Highest Channel / 5MHz / QPSK



Date: 28 SEP 2018 05:23:07

Highest Channel / 5MHz / 16QAM

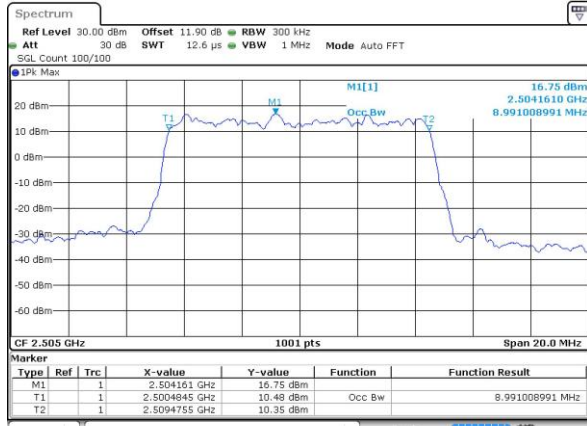


Date: 28 SEP 2018 05:23:19



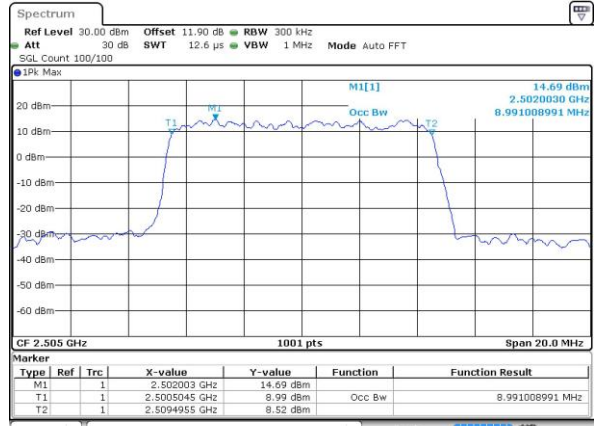
LTE Band 7

Lowest Channel / 10MHz / QPSK



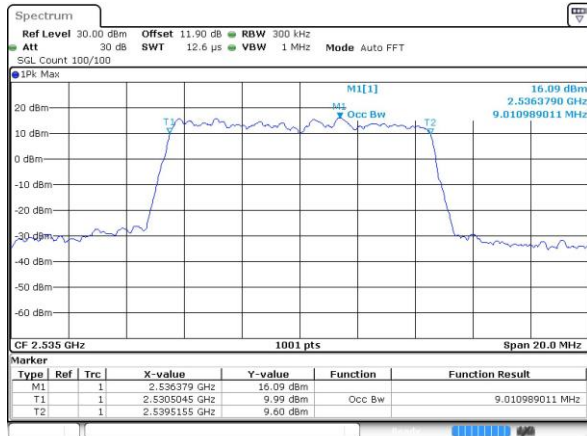
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Lowest Channel / 10MHz / 16QAM



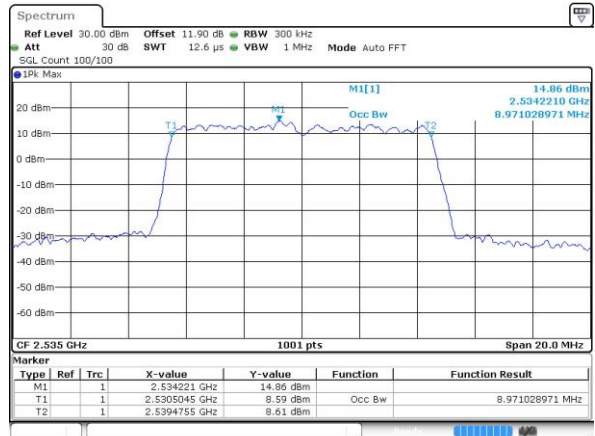
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Middle Channel / 10MHz / QPSK



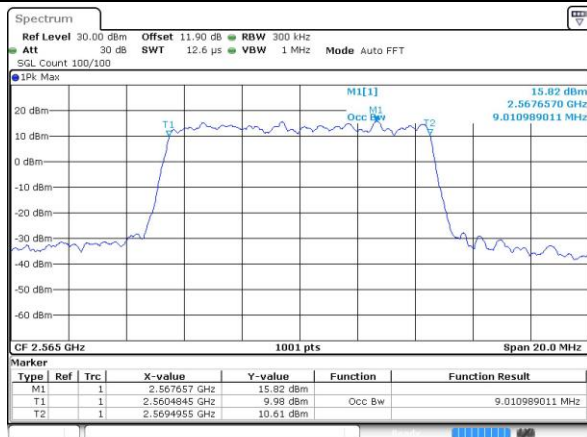
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Middle Channel / 10MHz / 16QAM



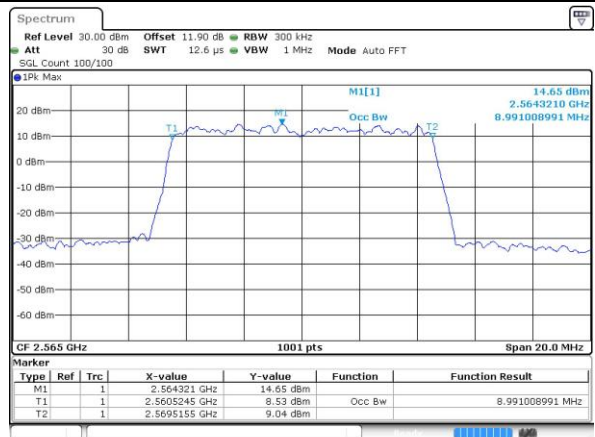
Date: 28 SEP 2018 05:46:29

Highest Channel / 10MHz / QPSK



Date: 28 SEP 2018 05:48:52

Highest Channel / 10MHz / 16QAM



Date: 28 SEP 2018 05:49:03