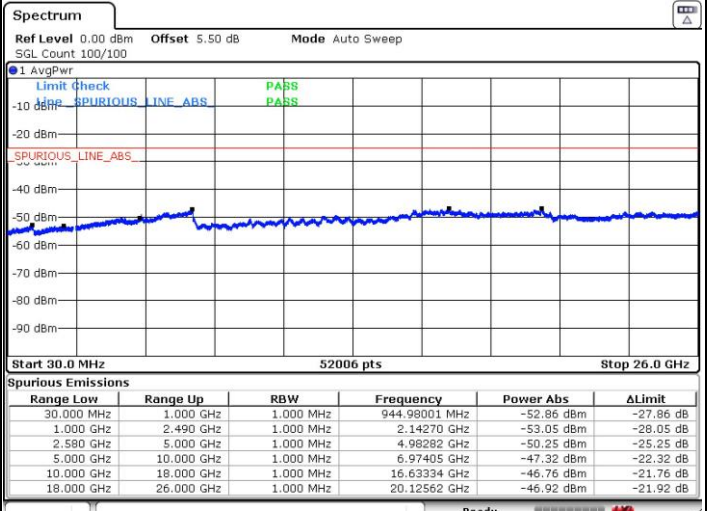
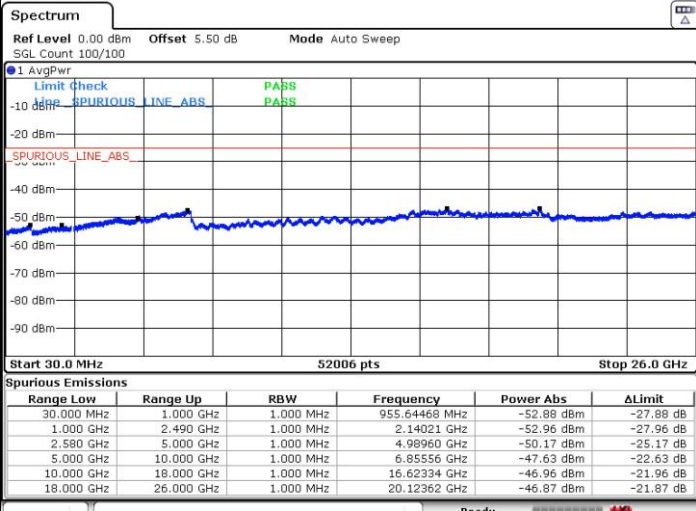




LTE Band 7 / 15MHz+20MHz

Middle Channel / QPSK

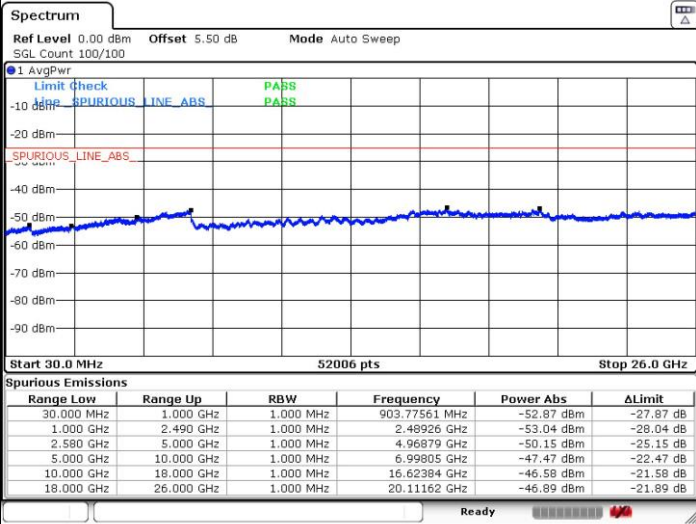
Middle Channel / 16QAM



Date: 20 AUG.2018 17:39:46

Date: 20 AUG.2018 17:38:43

Middle Channel / 64QAM



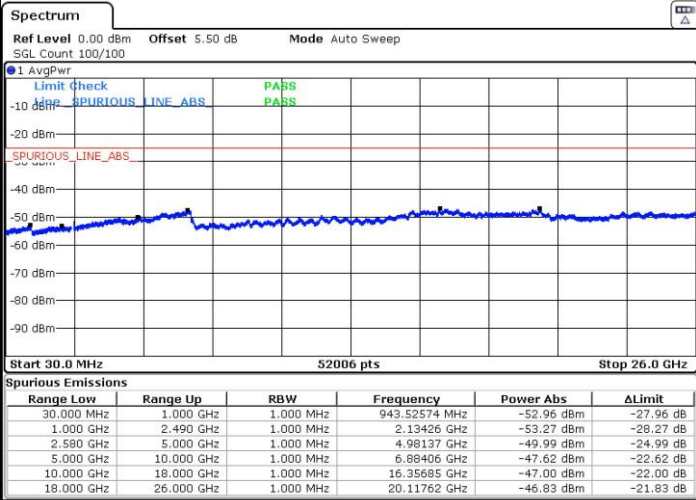
Date: 20 AUG.2018 17:37:41



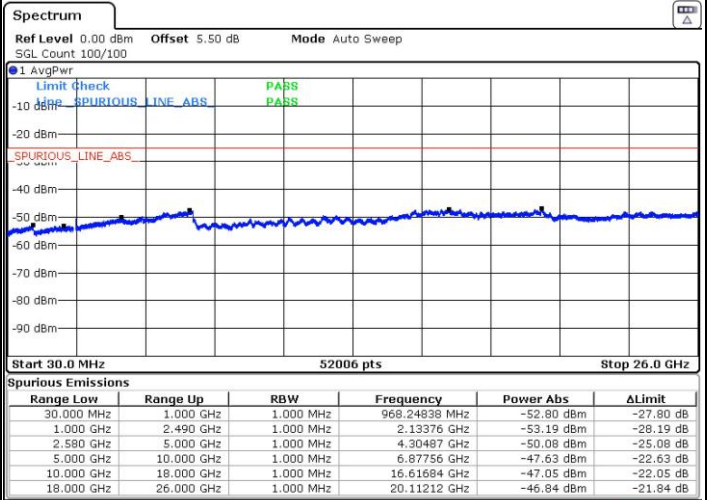
LTE Band 7 / 15MHz+20MHz

Highest Channel / QPSK

Highest Channel / 16QAM

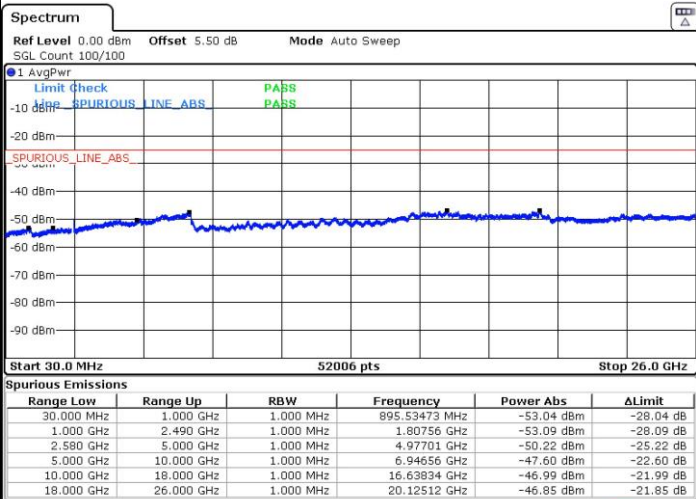


Date: 20 AUG.2018 17:41:48



Date: 20 AUG.2018 17:42:56

Highest Channel / 64QAM



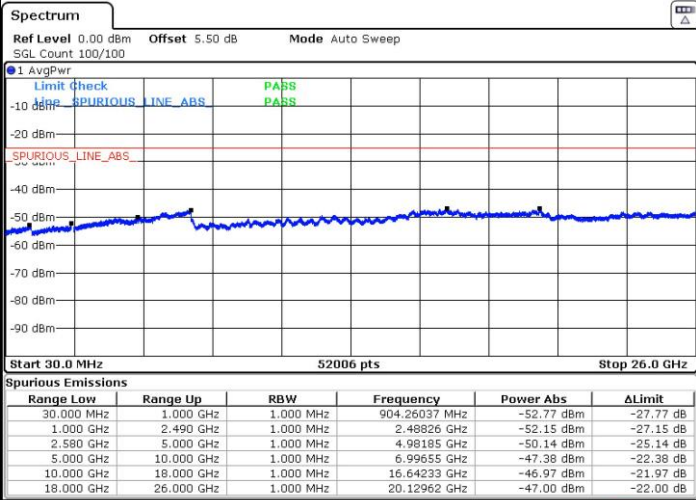
Date: 20 AUG.2018 17:44:57



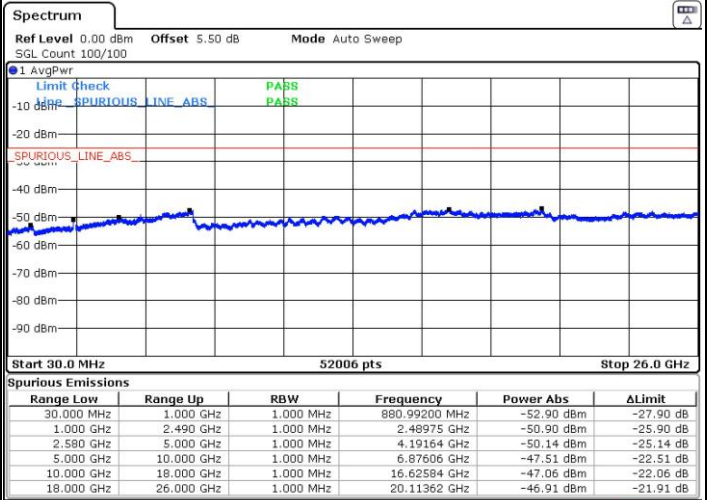
LTE Band 7 / 20MHz+10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

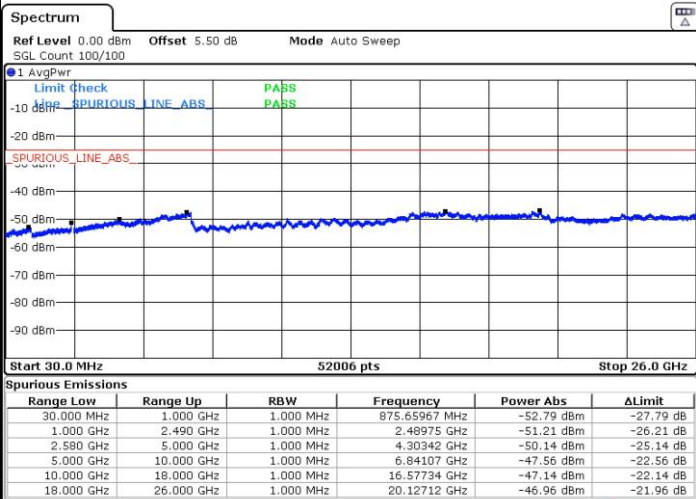


Date: 20 AUG.2018 17:01:52



Date: 20 AUG.2018 17:03:15

Lowest Channel / 64QAM



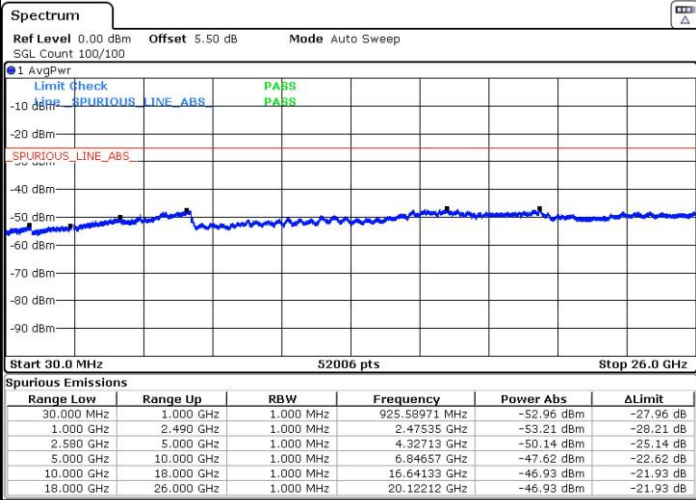
Date: 20 AUG.2018 17:08:51



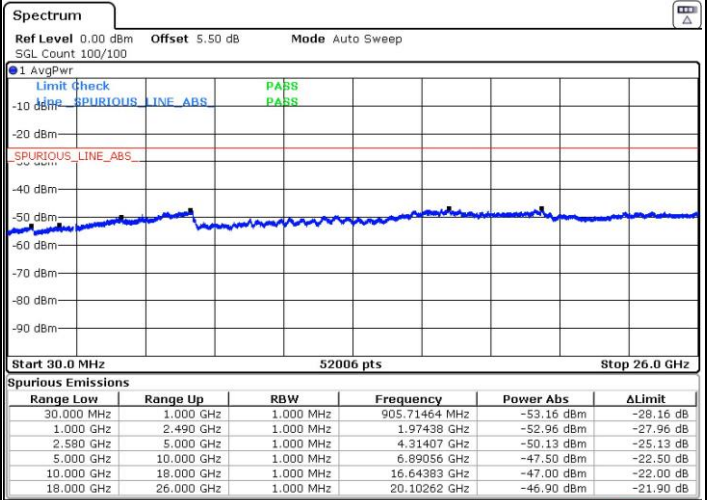
LTE Band 7 / 20MHz+10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

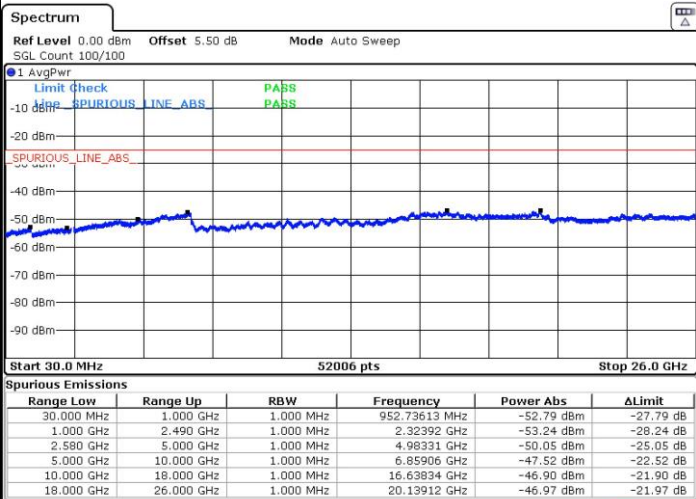


Date: 20 AUG.2018 17:14:25



Date: 20 AUG.2018 17:13:29

Middle Channel / 64QAM



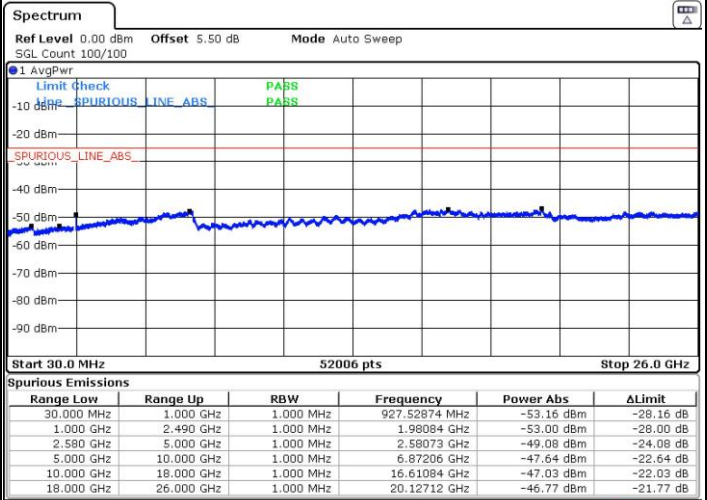
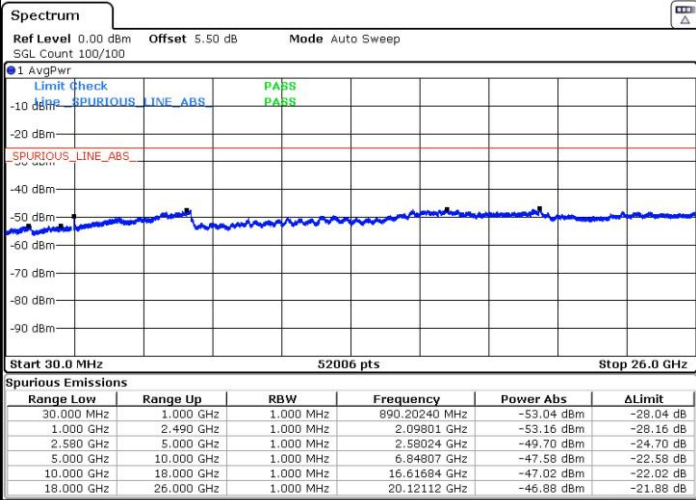
Date: 20 AUG.2018 17:12:31



LTE Band 7 / 20MHz+10MHz

Highest Channel / QPSK

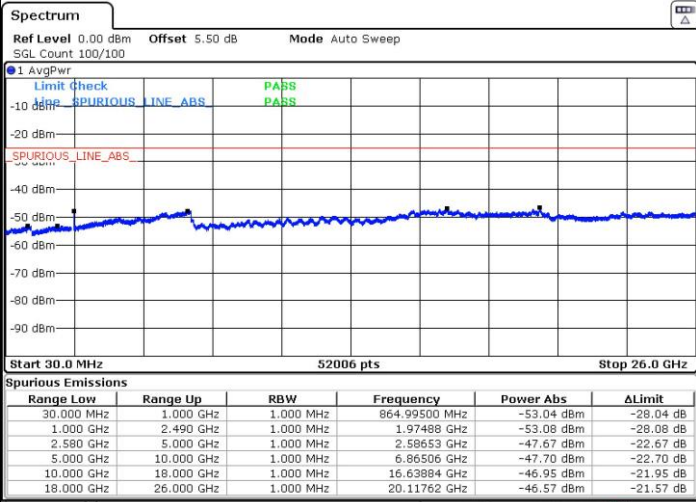
Highest Channel / 16QAM



Date: 20 AUG.2018 17:15:40

Date: 20 AUG.2018 17:16:46

Highest Channel / 64QAM



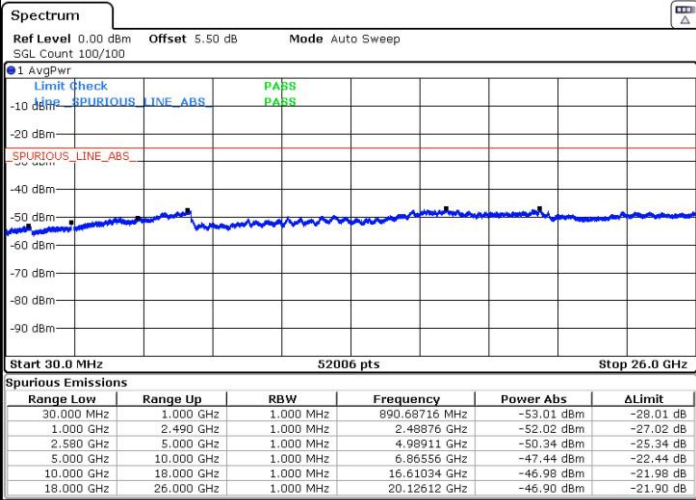
Date: 20 AUG.2018 17:17:41



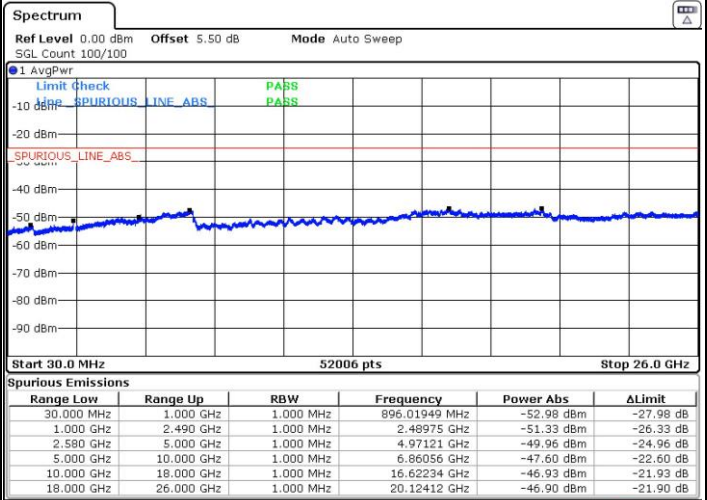
LTE Band 7 / 20MHz+15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

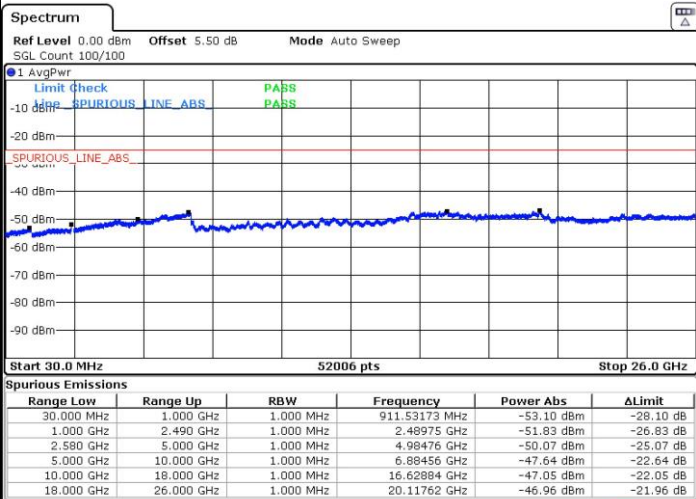


Date: 20 AUG.2018 17:50:05



Date: 20 AUG.2018 17:49:05

Lowest Channel / 64QAM



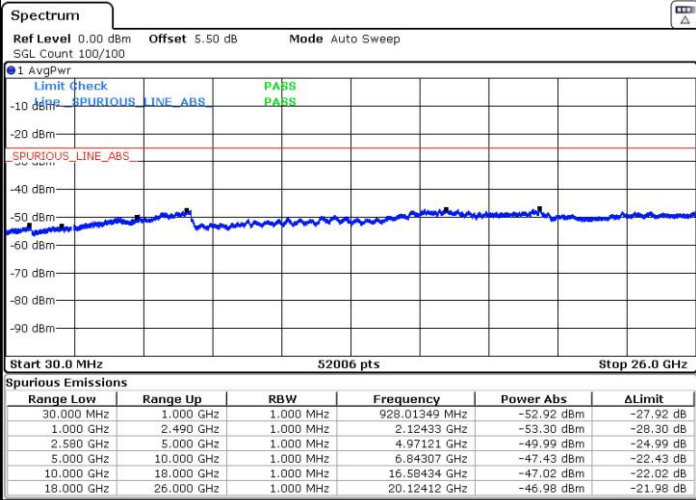
Date: 20 AUG.2018 17:47:42



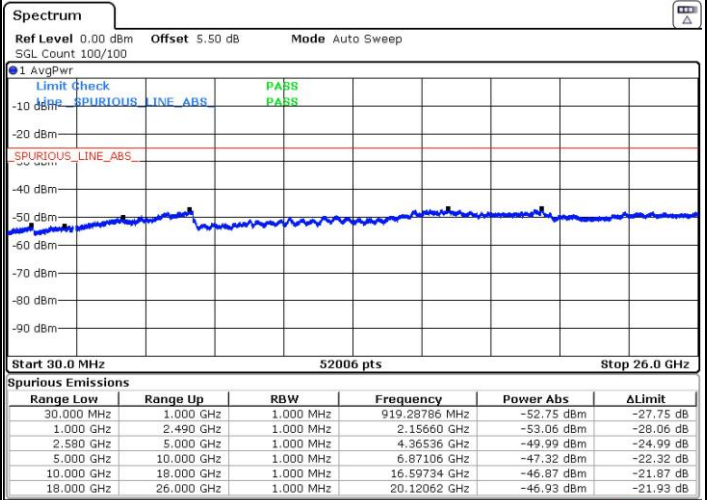
LTE Band 7 / 20MHz+15MHz

Middle Channel / QPSK

Middle Channel / 16QAM

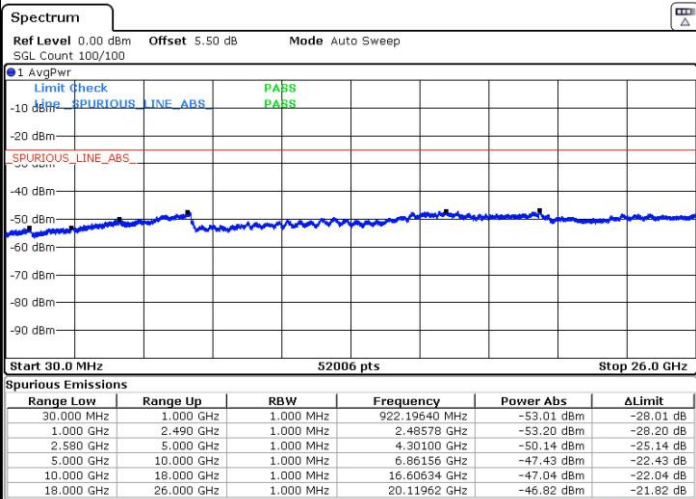


Date: 20 AUG.2018 17:51:49



Date: 20 AUG.2018 17:52:53

Middle Channel / 64QAM



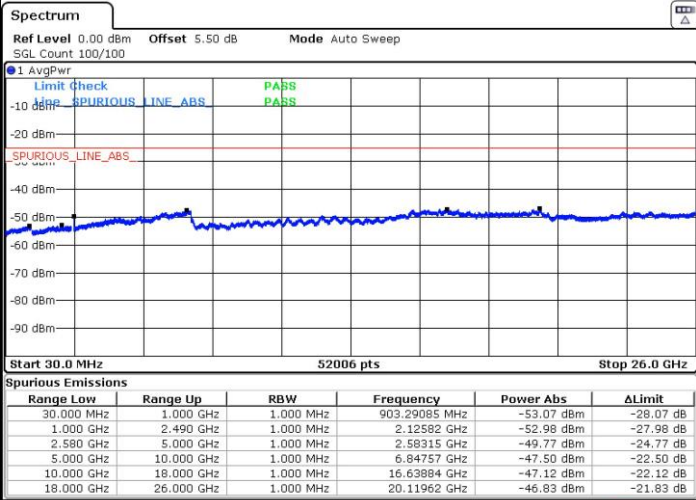
Date: 20 AUG.2018 17:53:55



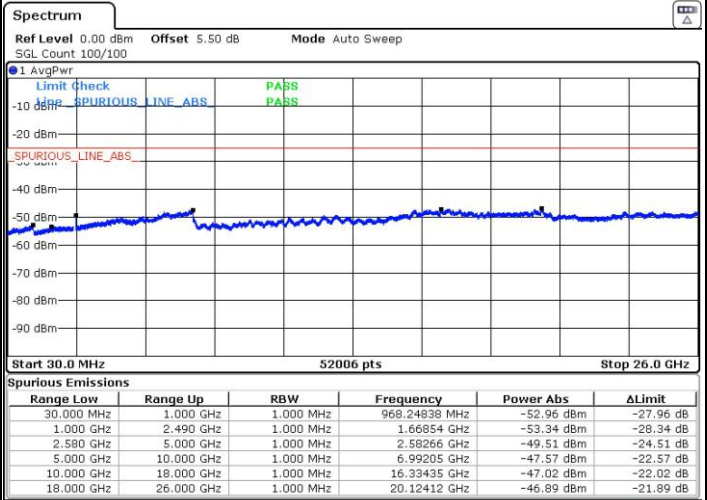
LTE Band 7 / 20MHz+15MHz

Highest Channel / QPSK

Highest Channel / 16QAM

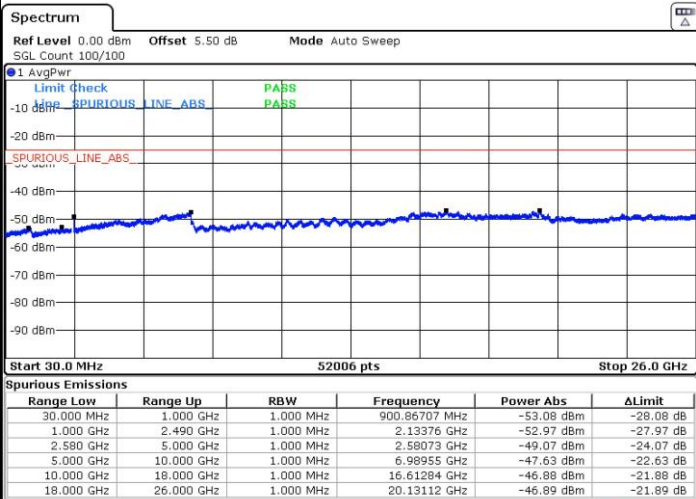


Date: 20 AUG.2018 18:19:21



Date: 20 AUG.2018 17:58:42

Highest Channel / 64QAM



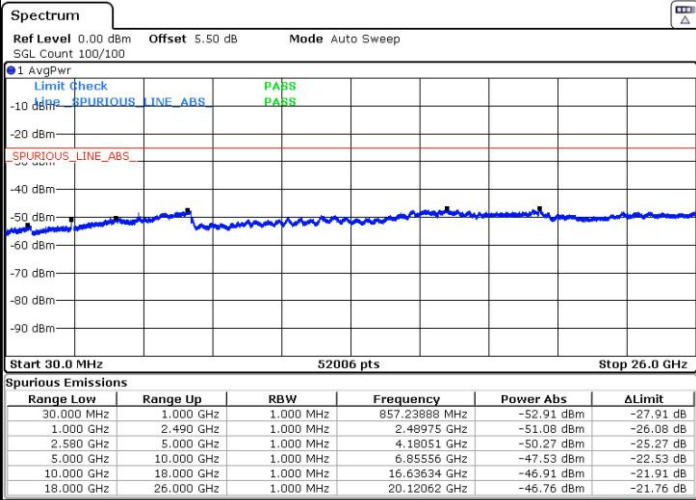
Date: 20 AUG.2018 17:57:21



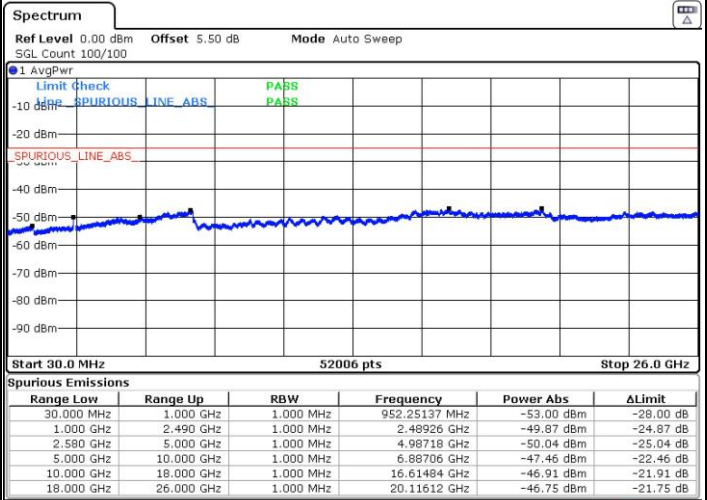
LTE Band 7 / 20MHz+20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

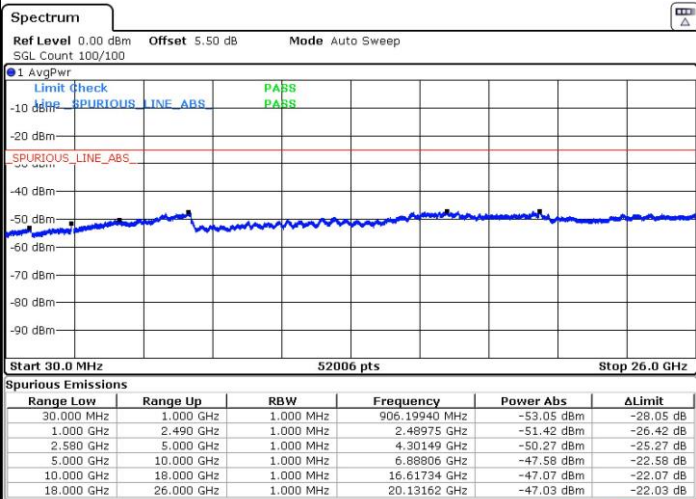


Date: 21.AUG.2018 11:41:19



Date: 21.AUG.2018 11:45:25

Lowest Channel / 64QAM



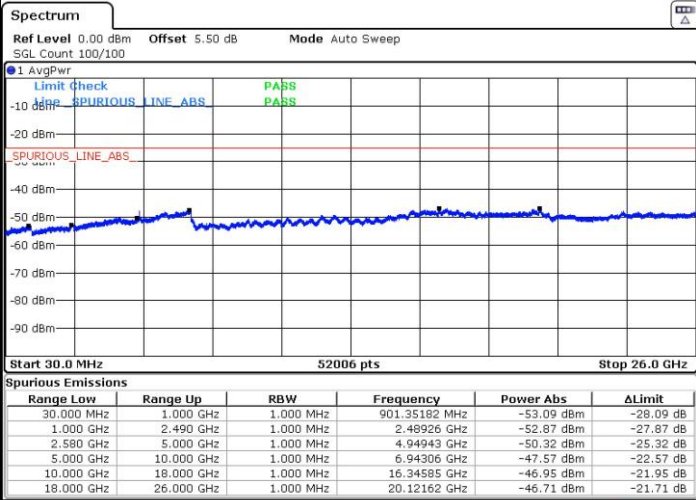
Date: 21.AUG.2018 11:47:50



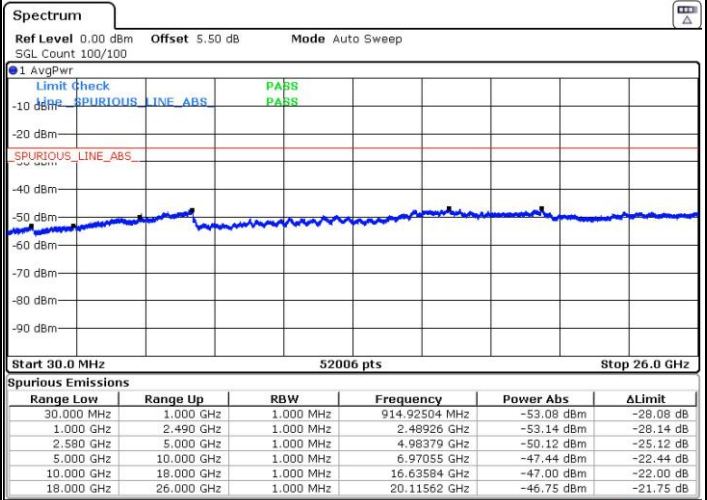
LTE Band 7 / 20MHz+20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

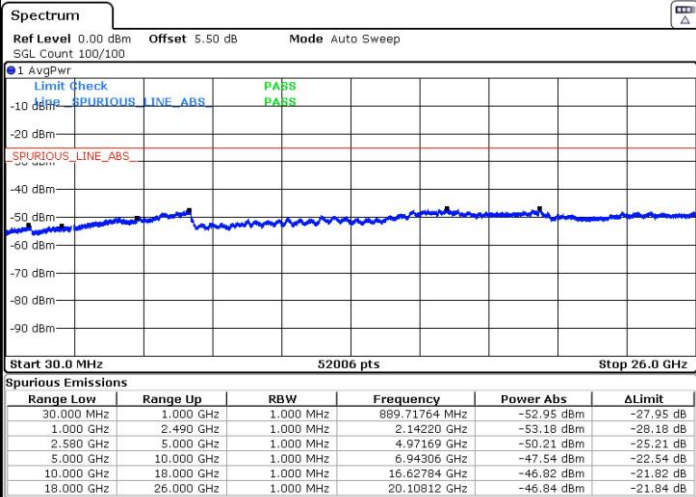


Date: 21.AUG.2018 11:53:26



Date: 21.AUG.2018 11:51:03

Middle Channel / 64QAM



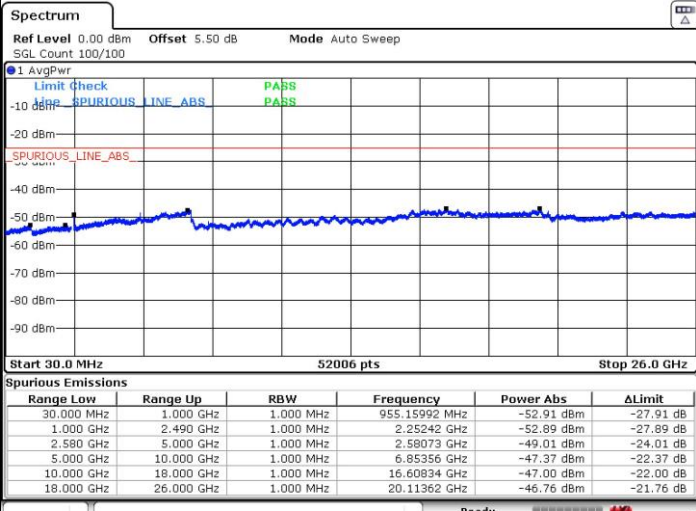
Date: 21.AUG.2018 11:52:23



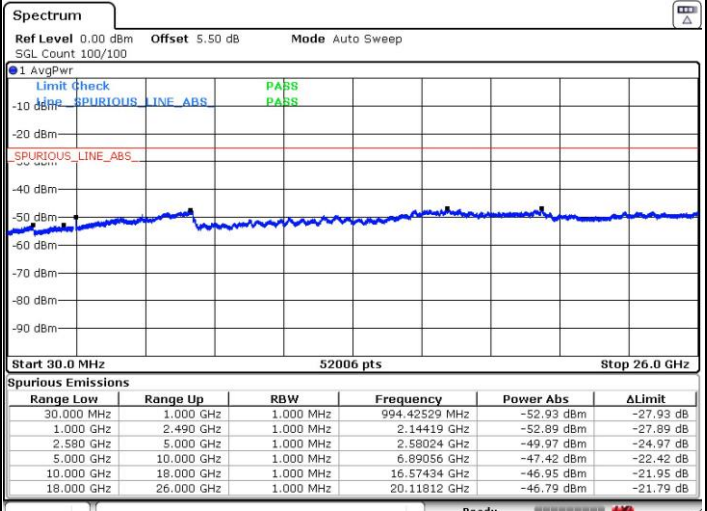
LTE Band 7 / 20MHz+20MHz

Highest Channel / QPSK

Highest Channel / 16QAM

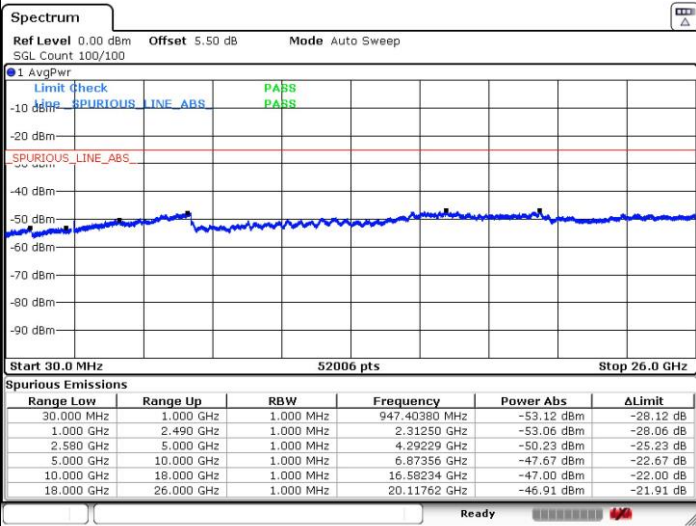


Date: 21.AUG.2018 11:56:04



Date: 21.AUG.2018 11:57:46

Highest Channel / 64QAM



Date: 21.AUG.2018 11:58:48



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.01	PASS
40	Normal Voltage	0.01	
30	Normal Voltage	0.02	
20(Ref.)	Normal Voltage	0.01	
10	Normal Voltage	0.02	
0	Normal Voltage	-0.02	
-10	Normal Voltage	0.01	
-20	Normal Voltage	-0.02	
-30	Normal Voltage	-0.01	
20	Maximum Voltage	0.03	
20	Normal Voltage	0.01	
20	Battery End Point	-0.01	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.77	37.88	28.71	37.88
Middle CH	28.77	37.88	28.65	37.88
Highest CH	28.65	37.80	28.65	37.88

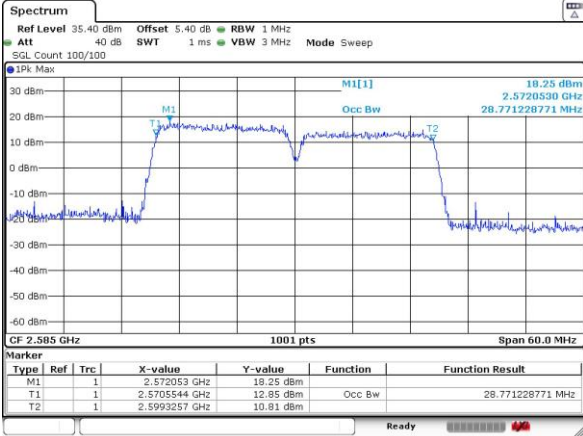
Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	28.71	37.88	-	-
Middle CH	28.71	37.88	-	-
Highest CH	28.65	37.80	-	--



LTE Band 38

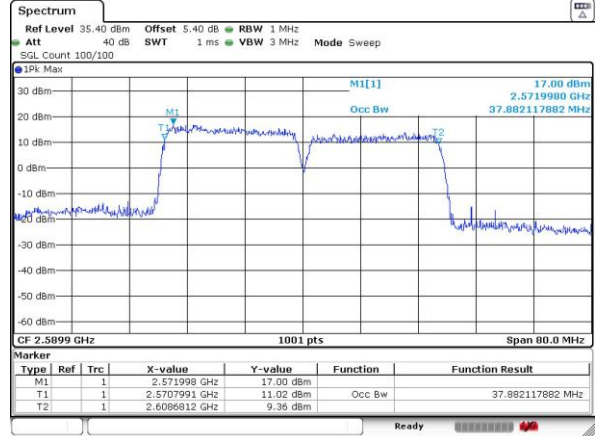
QPSK

Lowest Channel / 15MHz+15MHz



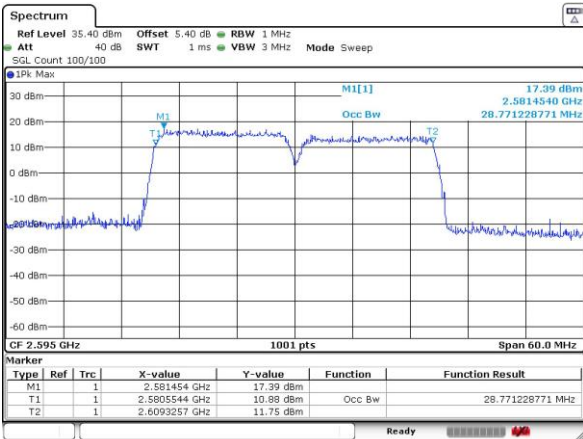
Date: 8 SEP 2018 01:03:28

Lowest Channel / 20MHz+20MHz



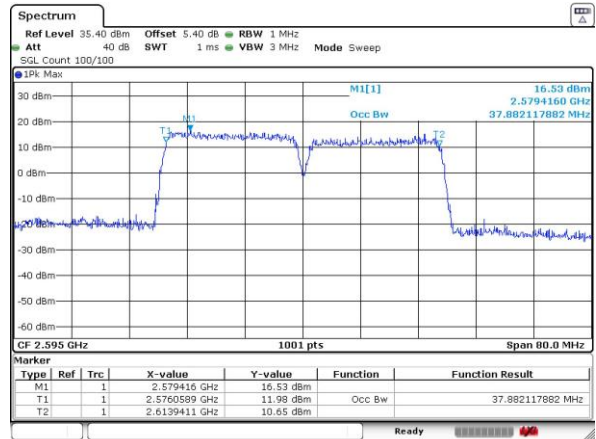
Date: 8 SEP 2018 01:11:43

Middle Channel / 15MHz+15MHz



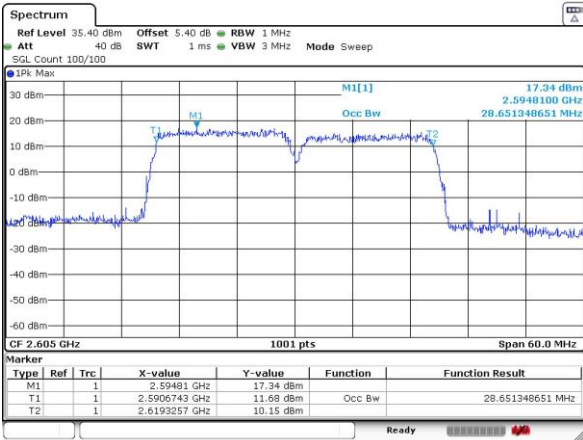
Date: 8 SEP 2018 01:06:55

Middle Channel / 20MHz+20MHz



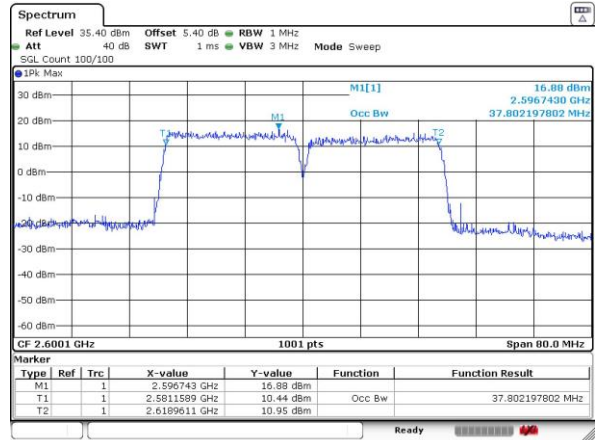
Date: 8 SEP 2018 01:12:45

Highest Channel / 15MHz+15MHz



Date: 8 SEP 2018 01:07:42

Highest Channel / 20MHz+20MHz



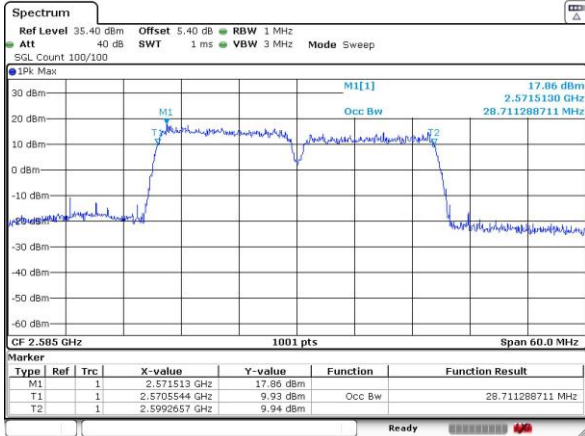
Date: 8 SEP 2018 01:15:09



LTE Band 38

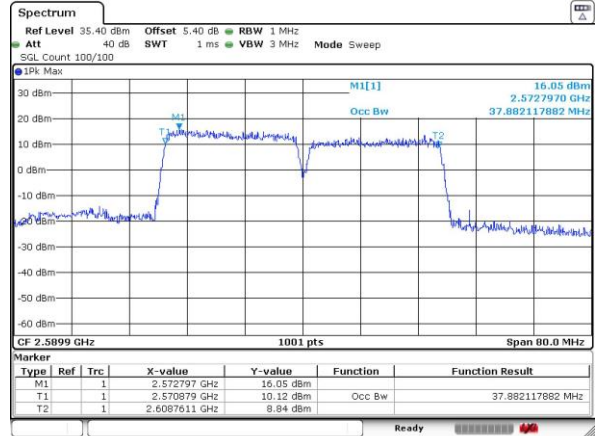
16QAM

Lowest Channel / 15MHz+15MHz



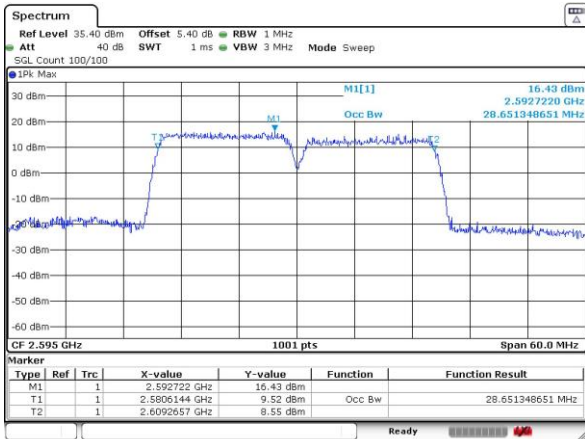
Date: 8 SEP 2018 01:04:15

Lowest Channel / 20MHz+20MHz



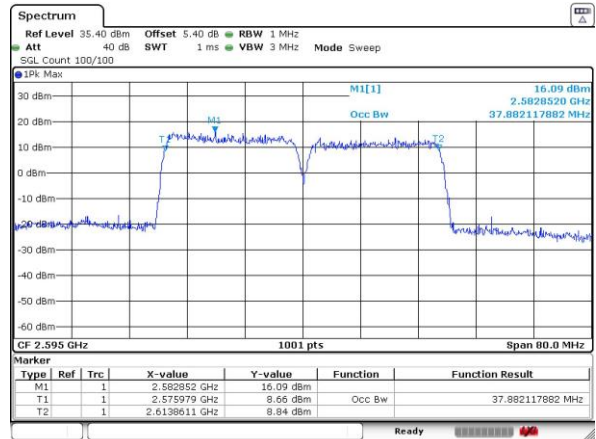
Date: 8 SEP 2018 01:11:17

Middle Channel / 15MHz+15MHz



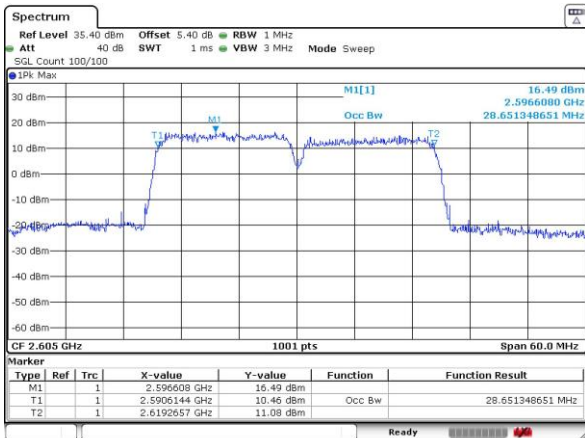
Date: 8 SEP 2018 01:06:23

Middle Channel / 20MHz+20MHz



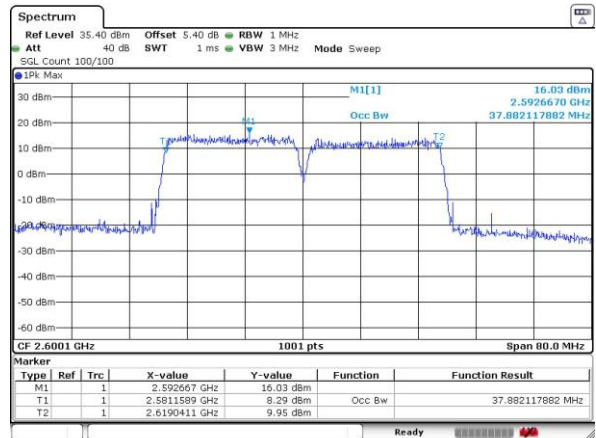
Date: 8 SEP 2018 01:13:10

Highest Channel / 15MHz+15MHz



Date: 8 SEP 2018 01:06:05

Highest Channel / 20MHz+20MHz



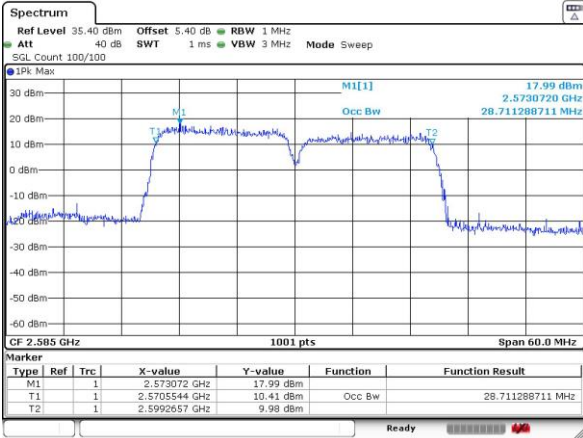
Date: 8 SEP 2018 01:14:47



LTE Band 38

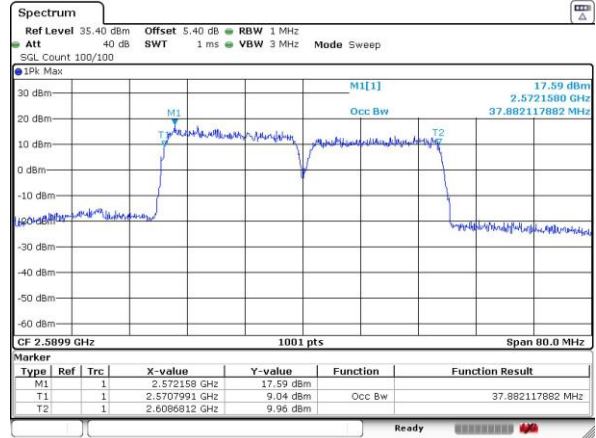
64QAM

Lowest Channel / 15MHz+15MHz



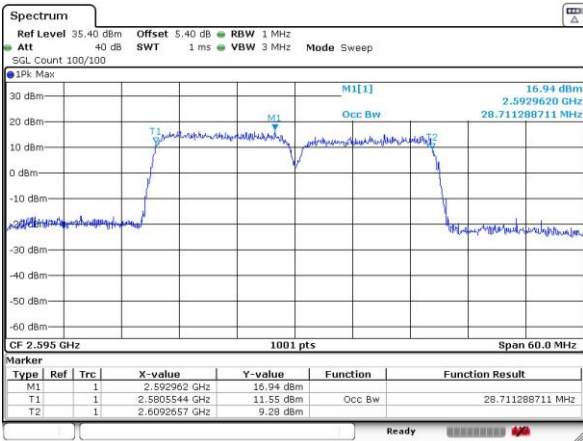
Date: 8 SEP 2018 01:04:42

Lowest Channel / 20MHz+20MHz



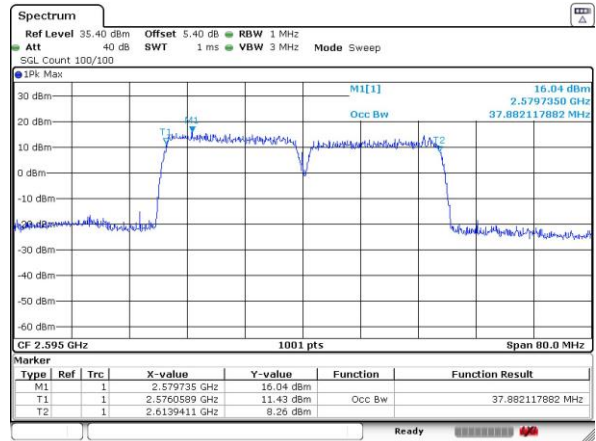
Date: 8 SEP 2018 01:10:47

Middle Channel / 15MHz+15MHz



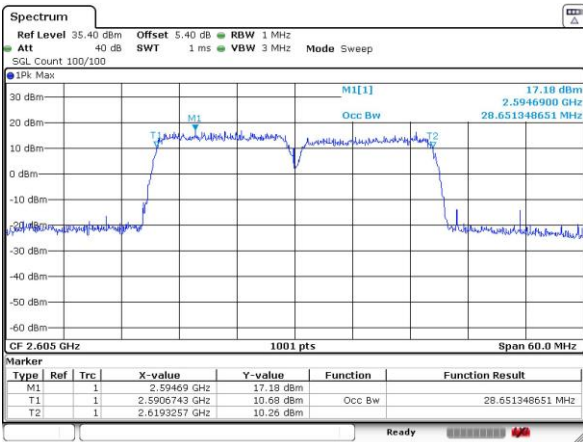
Date: 8 SEP 2018 01:05:45

Middle Channel / 20MHz+20MHz



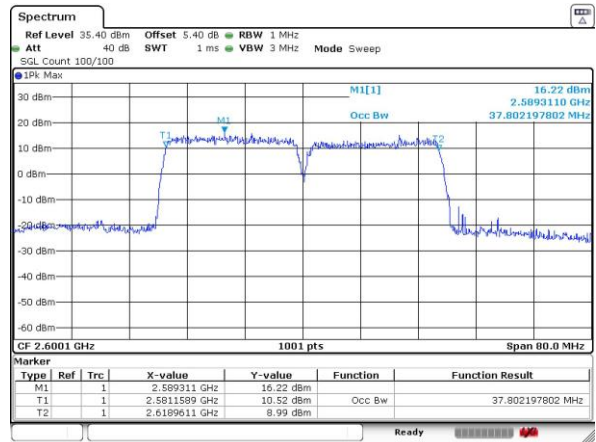
Date: 8 SEP 2018 01:13:37

Highest Channel / 15MHz+15MHz



Date: 8 SEP 2018 01:08:28

Highest Channel / 20MHz+20MHz



Date: 8 SEP 2018 01:14:24



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.02	PASS
40	Normal Voltage	0.01	
30	Normal Voltage	-0.01	
20(Ref.)	Normal Voltage	0.00	
10	Normal Voltage	-0.01	
0	Normal Voltage	0.01	
-10	Normal Voltage	0.01	
-20	Normal Voltage	-0.02	
-30	Normal Voltage	0.02	
20	Maximum Voltage	0.02	
20	Normal Voltage	0.01	
20	Battery End Point	-0.02	

Note:

1. Normal Voltage =3.82 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	25.075	25.425	30.03	25.475	30.629
Middle CH	25.125	25.574	30.15	25.524	30.929
Highest CH	24.975	25.425	29.97	25.425	30.749
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	35.035	-	-	-	39.96
Middle CH	35.035	-	-	-	40.12
Highest CH	35.035	-	-	-	40.04

Mode	LTE Band 41 : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.975	25.425	30.09	25.375	30.509
Middle CH	25.025	25.375	30.15	25.624	30.749
Highest CH	24.875	25.375	30.09	25.475	30.629
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.965	-	-	-	39.88
Middle CH	35.035	-	-	-	39.88
Highest CH	34.965	-	-	-	39.88

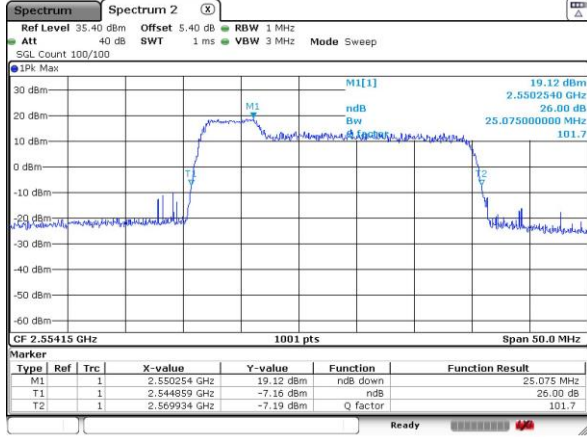
Mode	LTE Band 41 : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	25.025	25.275	29.85	25.425	30.629
Middle CH	25.125	25.475	29.91	25.574	30.809
Highest CH	24.925	25.375	29.91	25.574	30.629
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.965	-	-	-	39.88
Middle CH	35.105	-	-	-	40.04
Highest CH	35.035	-	-	-	40.04



LTE Band 41

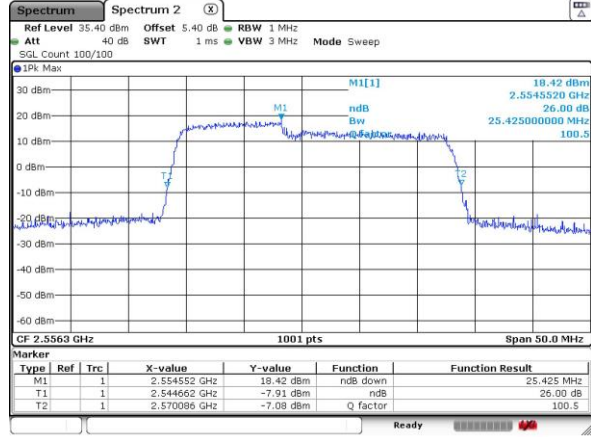
QPSK

Lowest Channel / 5MHz+20MHz



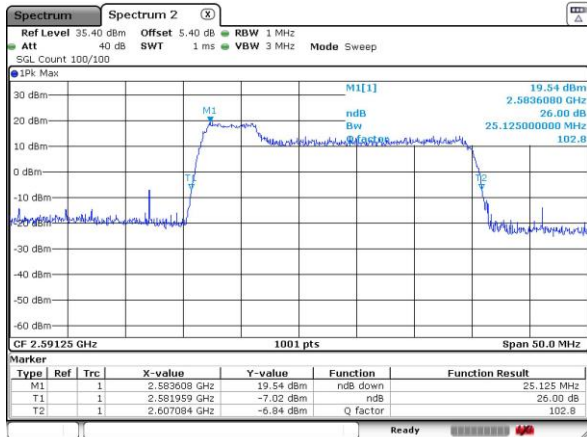
Date: 7 SEP 2018 20:17:08

Lowest Channel / 10MHz+15MHz



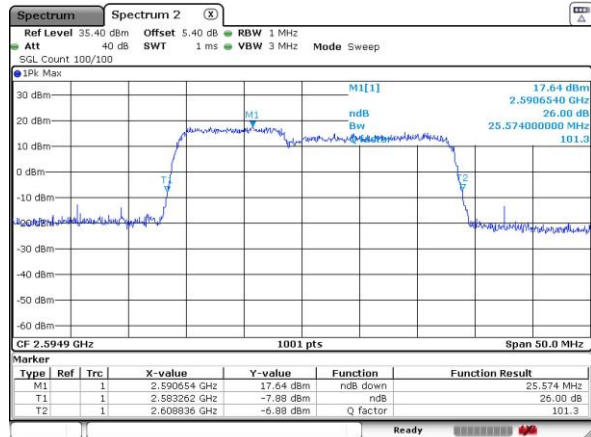
Date: 7 SEP 2018 21:02:23

Middle Channel / 5MHz+20MHz



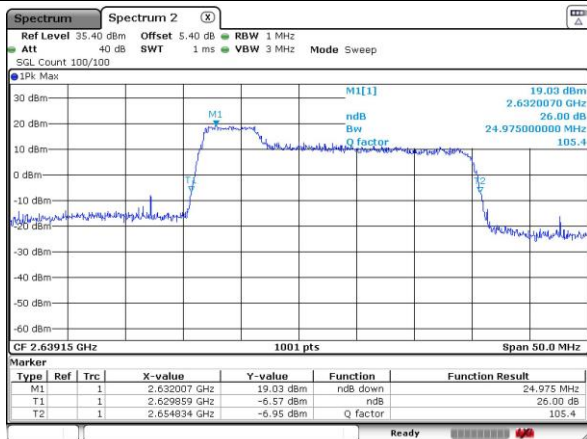
Date: 7 SEP 2018 20:18:18

Middle Channel / 10MHz+15MHz



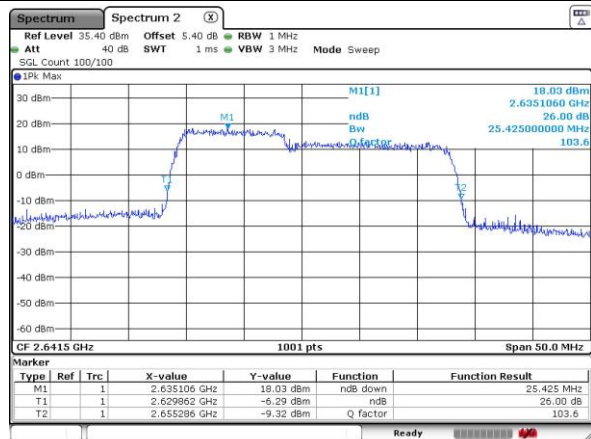
Date: 7 SEP 2018 21:03:31

Highest Channel / 5MHz+20MHz



Date: 7 SEP 2018 20:23:54

Highest Channel / 10MHz+15MHz



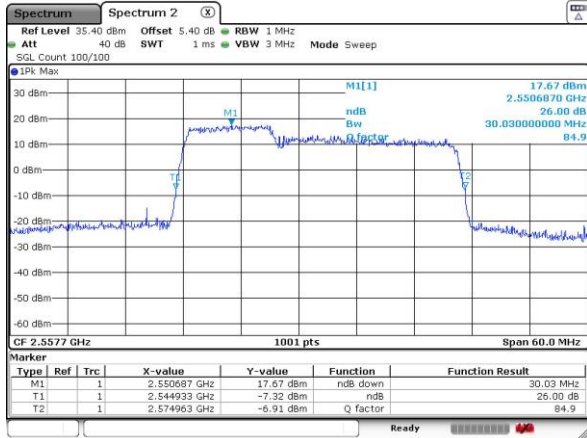
Date: 7 SEP 2018 21:06:29



LTE Band 41

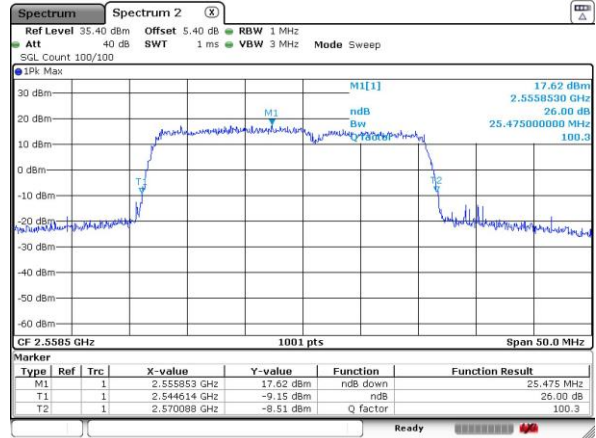
QPSK

Lowest Channel / 10MHz+20MHz



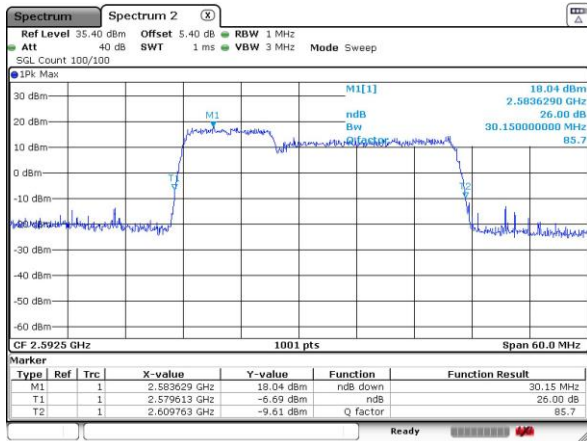
Date: 7.SEP.2018 21:33:32

Lowest Channel / 15MHz+10MHz



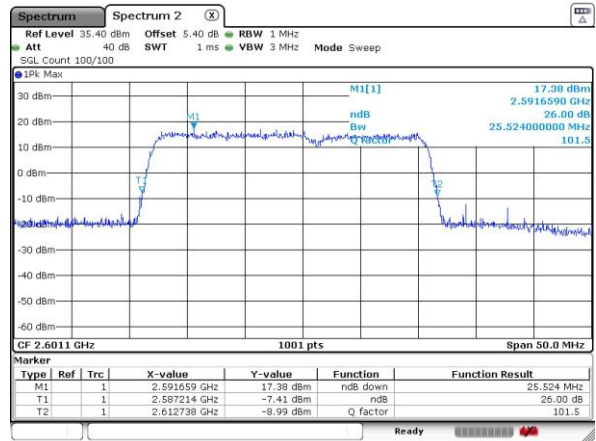
Date: 7.SEP.2018 21:21:04

Middle Channel / 10MHz+20MHz



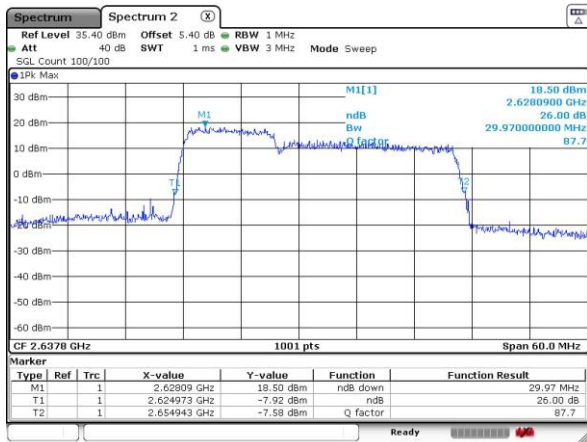
Date: 7.SEP.2018 21:35:11

Middle Channel / 15MHz+10MHz



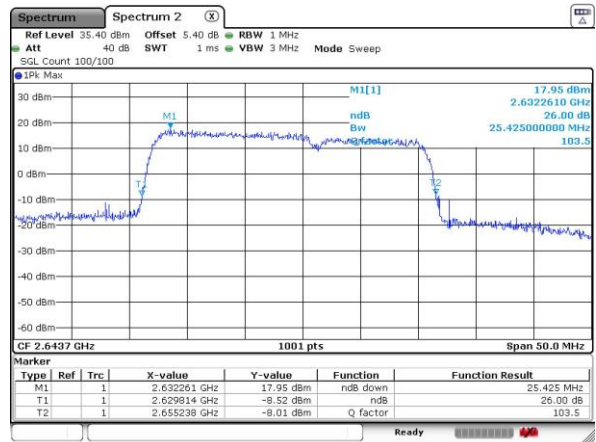
Date: 7.SEP.2018 21:26:00

Highest Channel / 10MHz+20MHz



Date: 7.SEP.2018 21:39:29

Highest Channel / 15MHz+10MHz



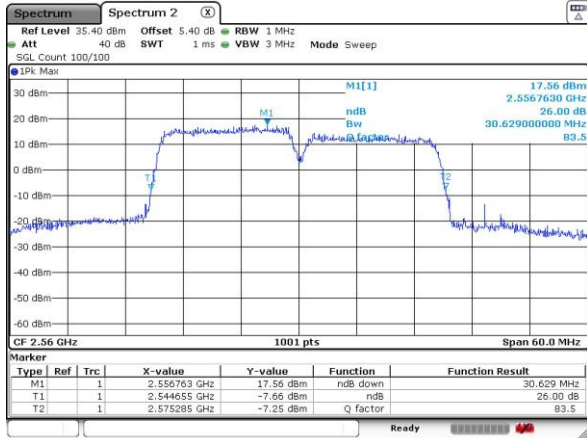
Date: 7.SEP.2018 21:27:49



LTE Band 41

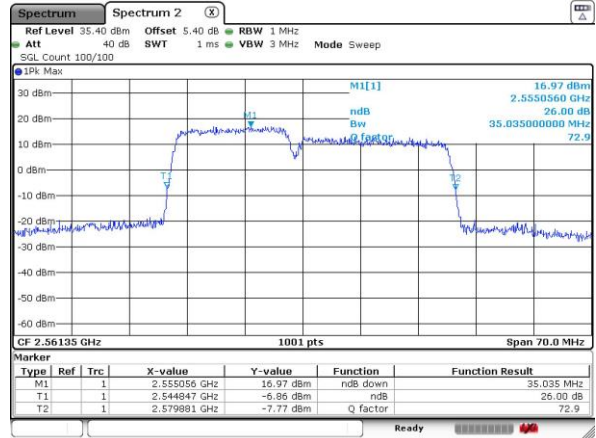
QPSK

Lowest Channel / 15MHz+15MHz



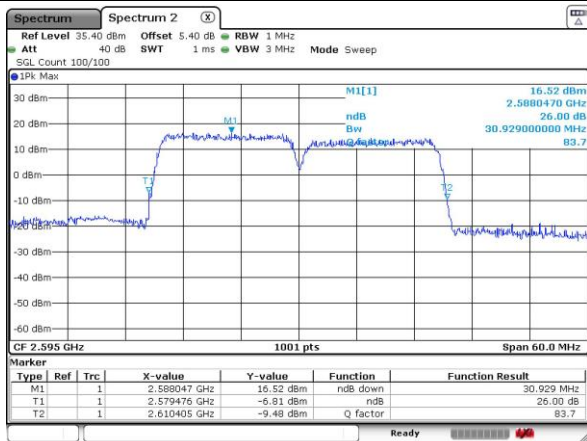
Date: 7.SEP.2018 21:54:53

Lowest Channel / 15MHz+20MHz



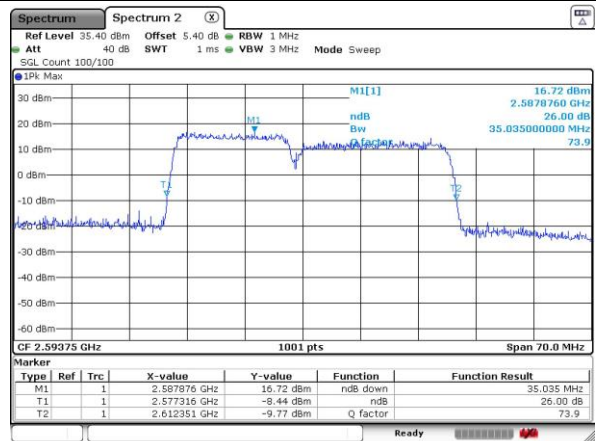
Date: 7.SEP.2018 22:32:15

Middle Channel / 15MHz+15MHz



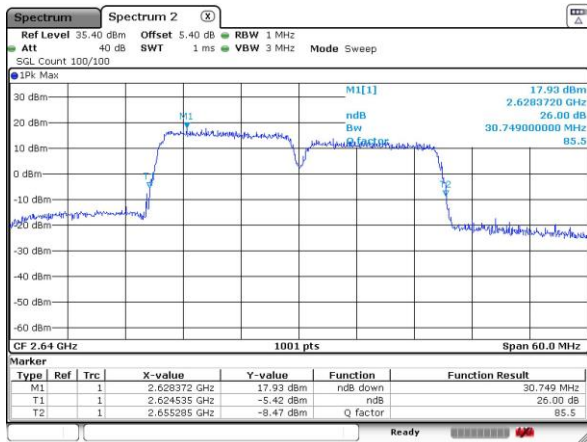
Date: 7.SEP.2018 21:56:11

Middle Channel / 15MHz+20MHz



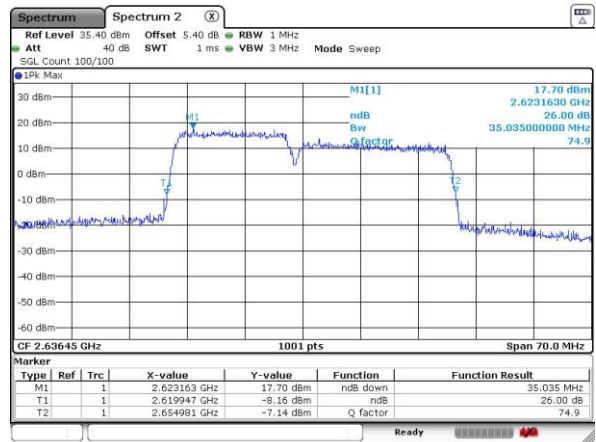
Date: 7.SEP.2018 22:33:14

Highest Channel / 15MHz+15MHz



Date: 7.SEP.2018 22:01:34

Highest Channel / 15MHz+20MHz



Date: 7.SEP.2018 22:37:33

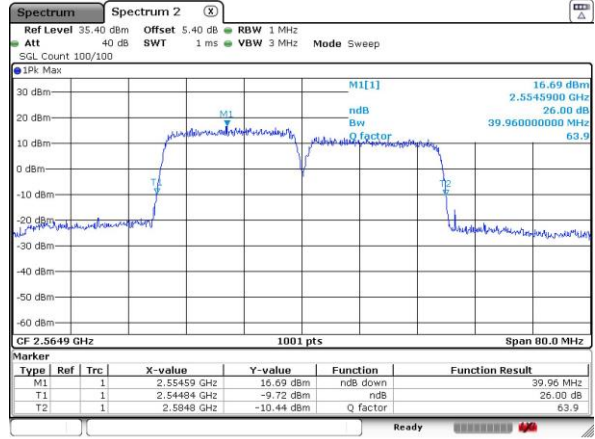


LTE Band 41

QPSK

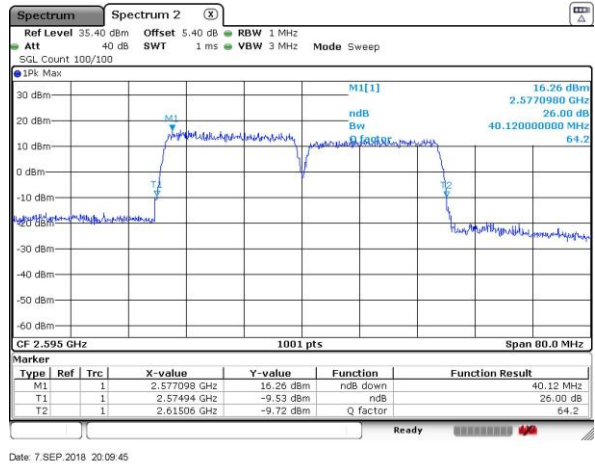
Lowest Channel / 20MHz+15MHz

Lowest Channel / 20MHz+20MHz



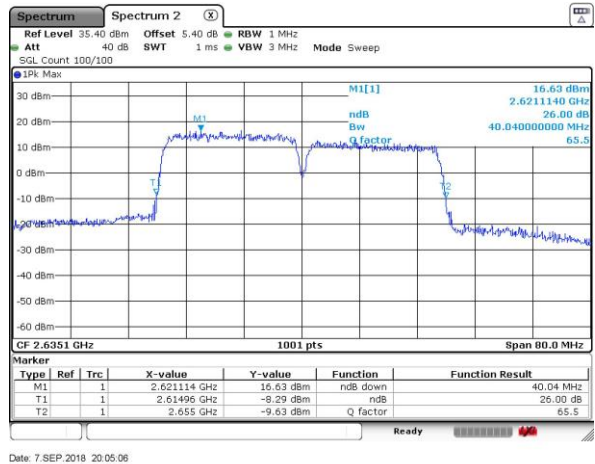
Middle Channel / 20MHz+15MHz

Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz

Highest Channel / 20MHz+20MHz

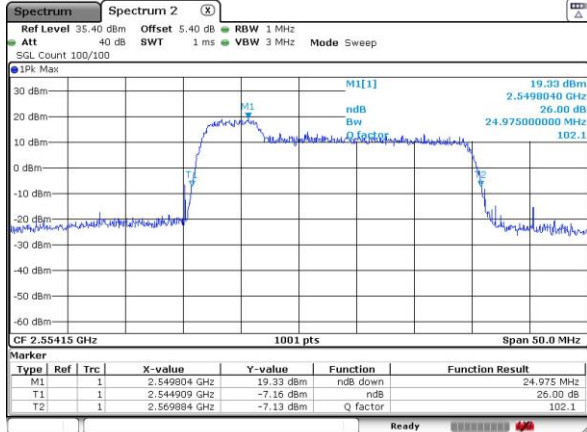




LTE Band 41

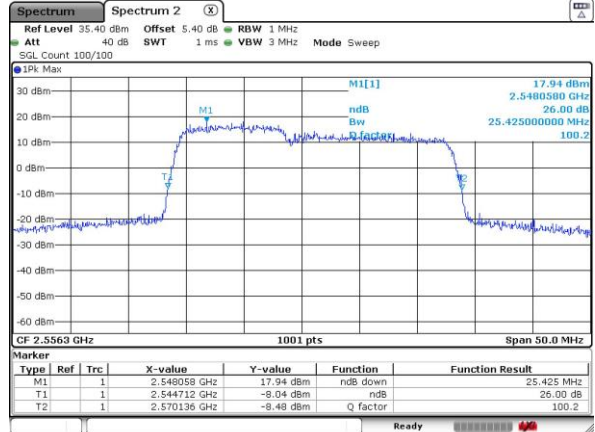
16QAM

Lowest Channel / 5MHz+20MHz



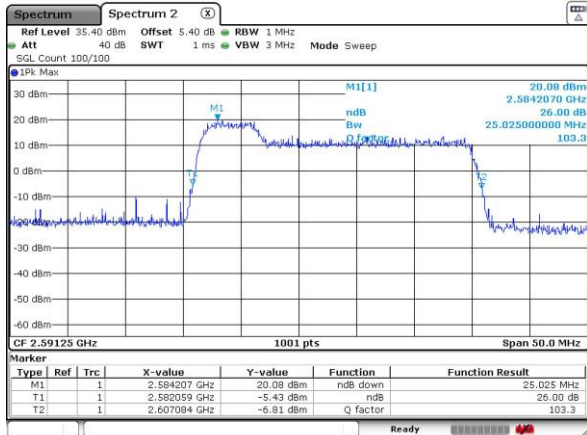
Date: 7 SEP 2018 20:16:08

Lowest Channel / 10MHz+15MHz



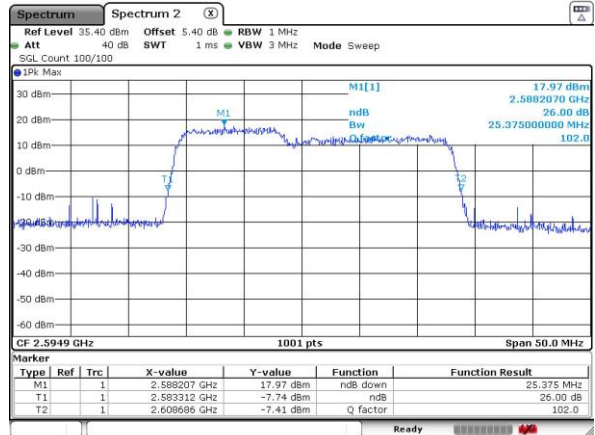
Date: 7 SEP 2018 21:01:18

Middle Channel / 5MHz+20MHz



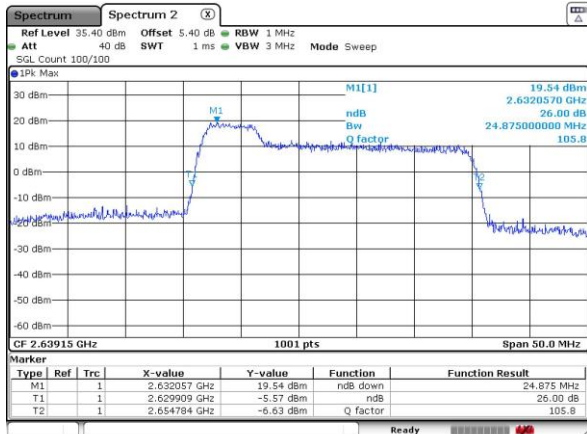
Date: 7 SEP 2018 20:19:21

Middle Channel / 10MHz+15MHz



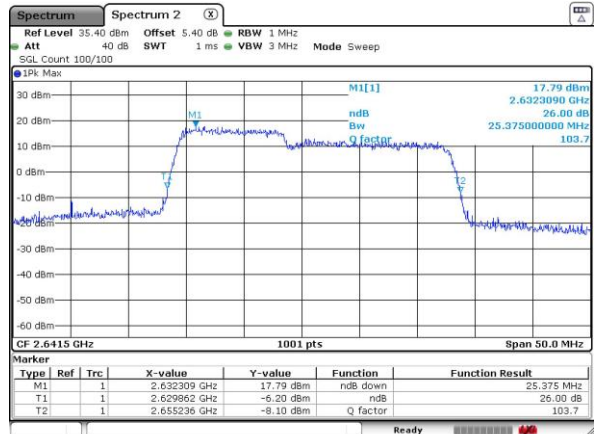
Date: 7 SEP 2018 21:04:24

Highest Channel / 5MHz+20MHz



Date: 7 SEP 2018 20:22:26

Highest Channel / 10MHz+15MHz



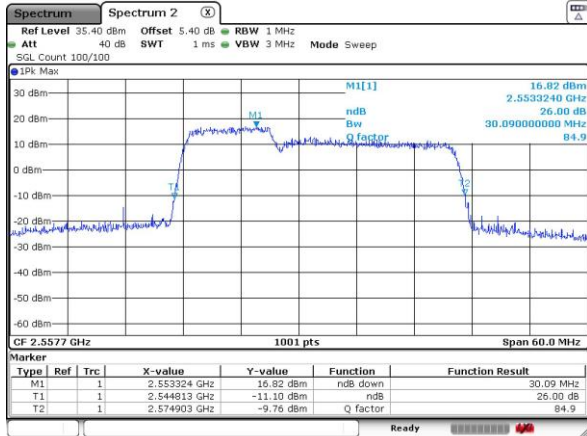
Date: 7 SEP 2018 21:07:09



LTE Band 41

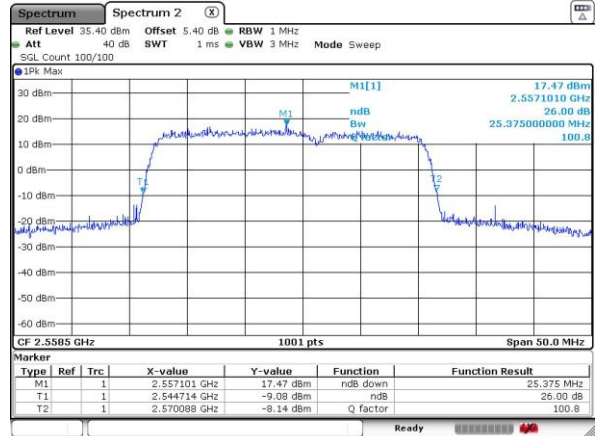
16QAM

Lowest Channel / 10MHz+20MHz



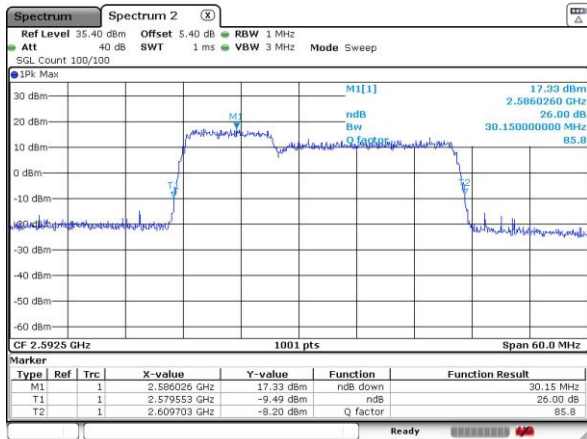
Date: 7 SEP 2018 21:32:28

Lowest Channel / 15MHz+10MHz



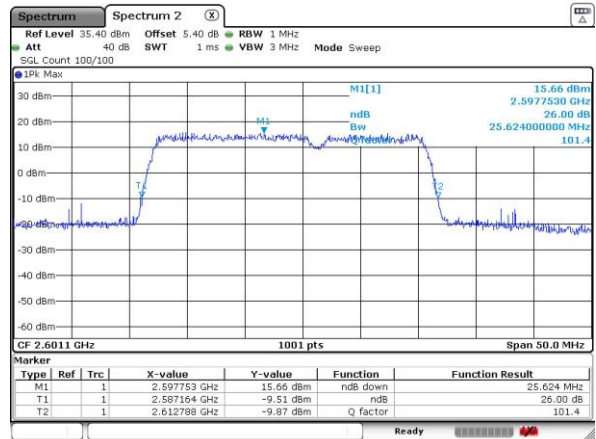
Date: 7 SEP 2018 21:22:13

Middle Channel / 10MHz+20MHz



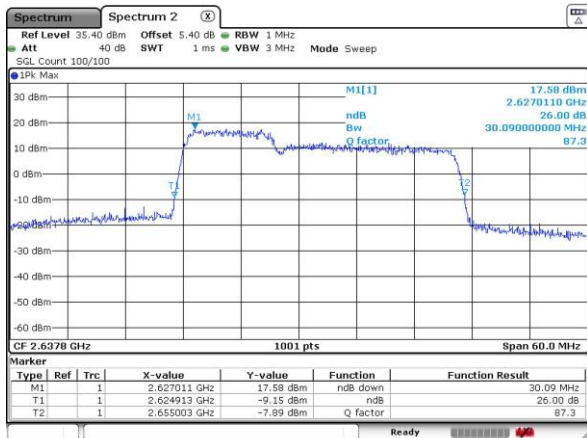
Date: 7 SEP 2018 21:36:02

Middle Channel / 15MHz+10MHz



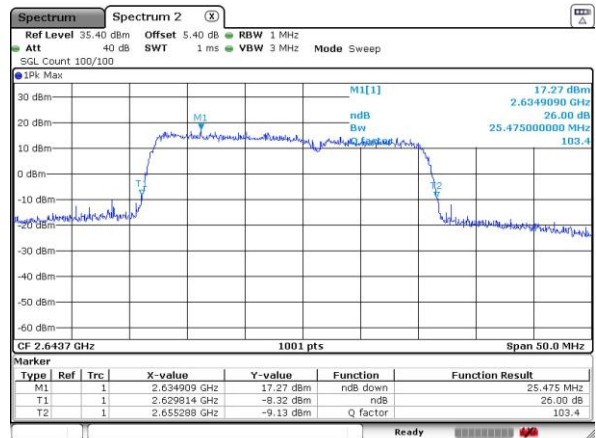
Date: 7 SEP 2018 21:25:11

Highest Channel / 10MHz+20MHz



Date: 7 SEP 2018 21:38:43

Highest Channel / 15MHz+10MHz



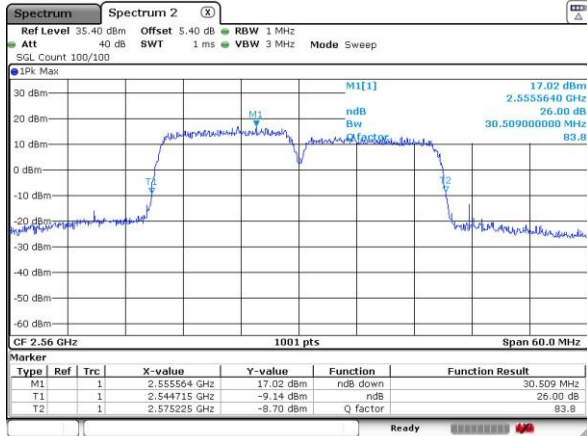
Date: 7 SEP 2018 21:28:24



LTE Band 41

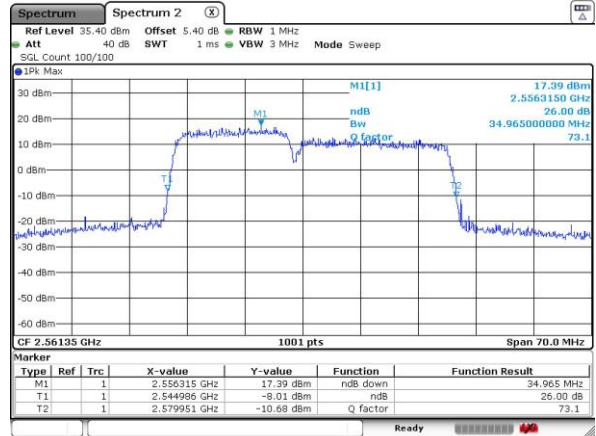
16QAM

Lowest Channel / 15MHz+15MHz



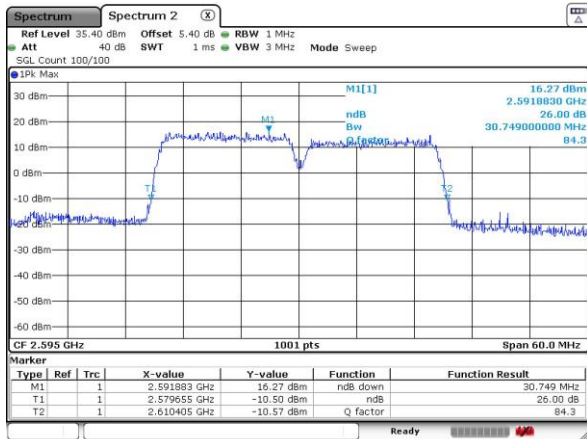
Date: 7 SEP 2018 21:54:02

Lowest Channel / 15MHz+20MHz



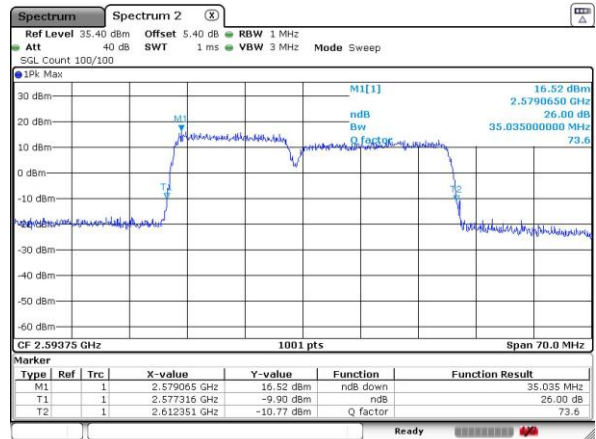
Date: 7 SEP 2018 22:31:22

Middle Channel / 15MHz+15MHz



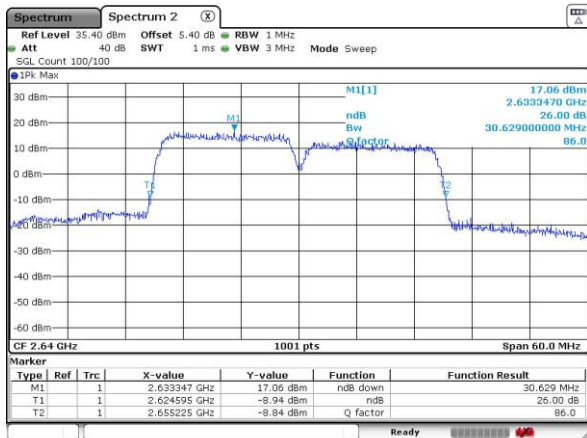
Date: 7 SEP 2018 21:57:05

Middle Channel / 15MHz+20MHz



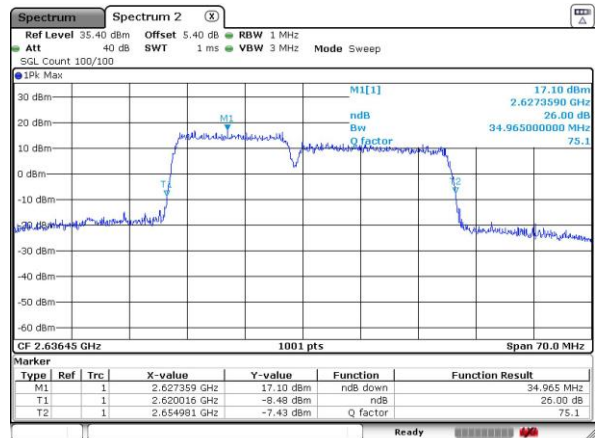
Date: 7 SEP 2018 22:34:15

Highest Channel / 15MHz+15MHz



Date: 7 SEP 2018 22:02:36

Highest Channel / 15MHz+20MHz



Date: 7 SEP 2018 22:36:42

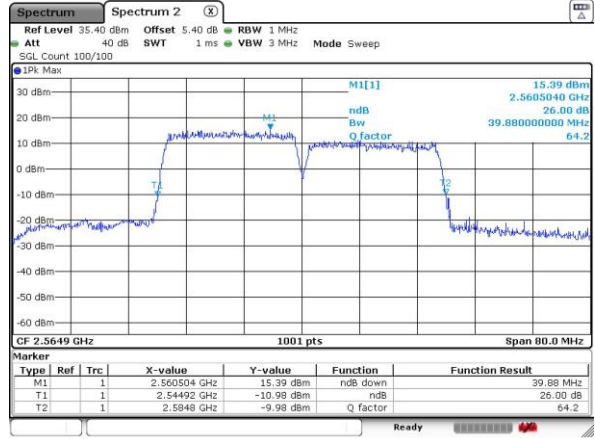


LTE Band 41

16QAM

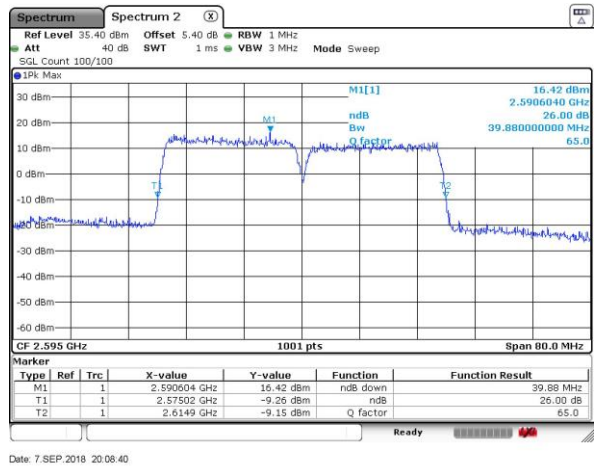
Lowest Channel / 20MHz+15MHz

Lowest Channel / 20MHz+20MHz



Middle Channel / 20MHz+15MHz

Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz

Highest Channel / 20MHz+20MHz

