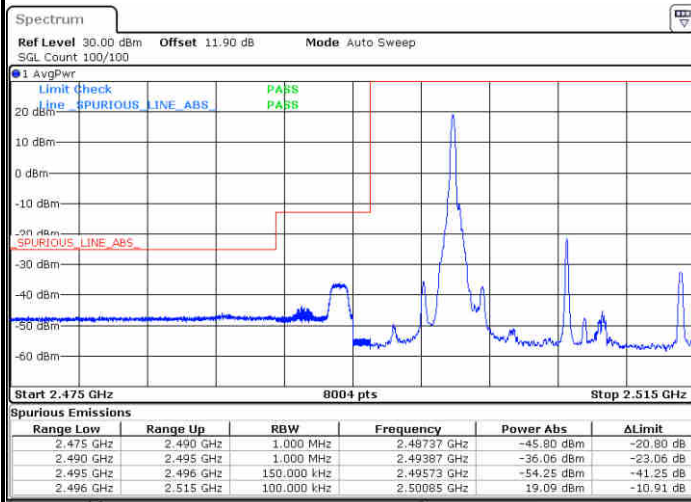


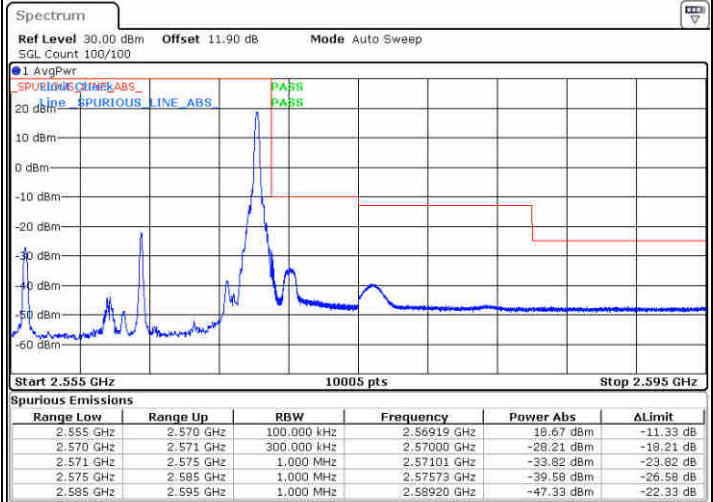


LTE Band 7 / 15MHz / QPSK

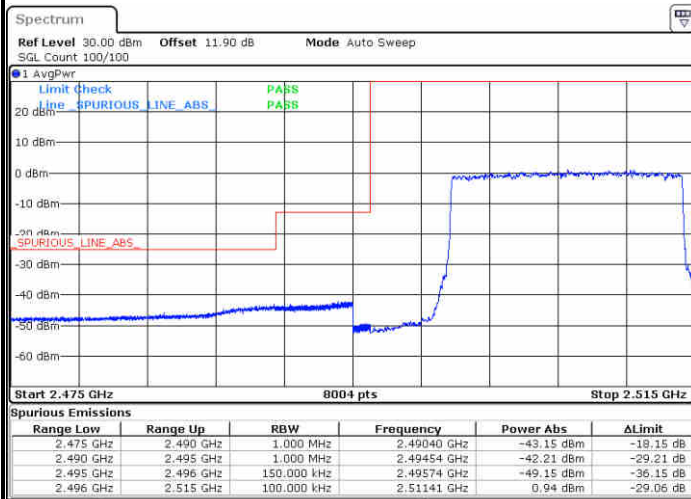
Lowest Band Edge / 1 RB



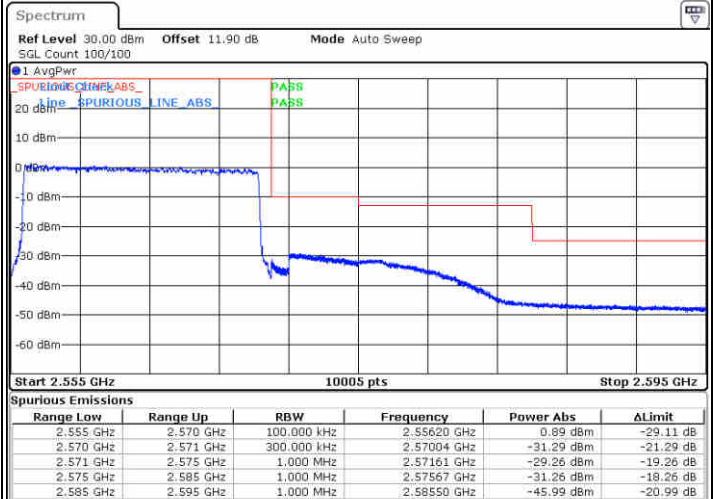
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



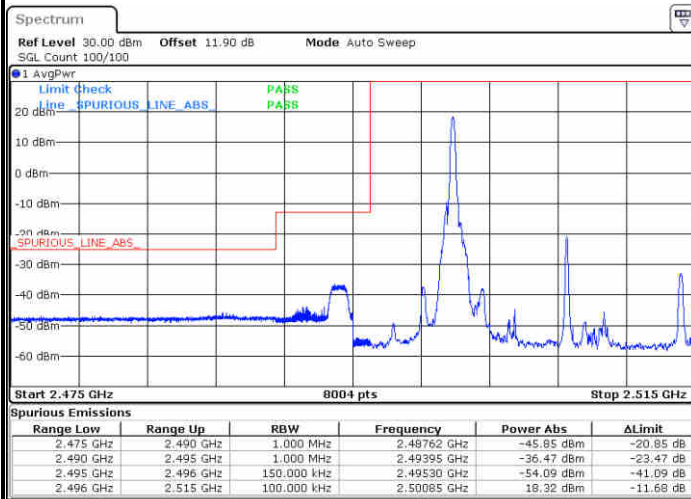
Highest Band Edge / Full RB



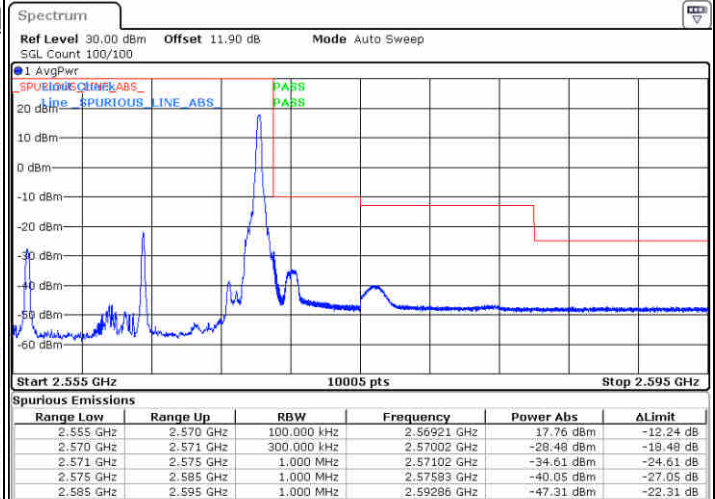


LTE Band 7 / 15MHz / 16QAM

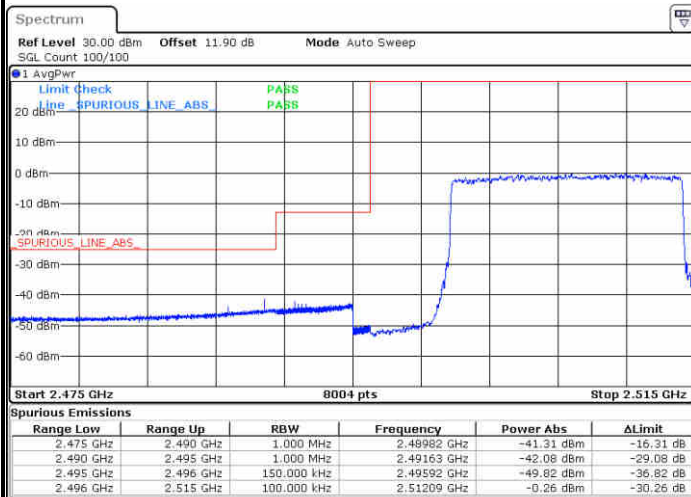
Lowest Band Edge / 1 RB



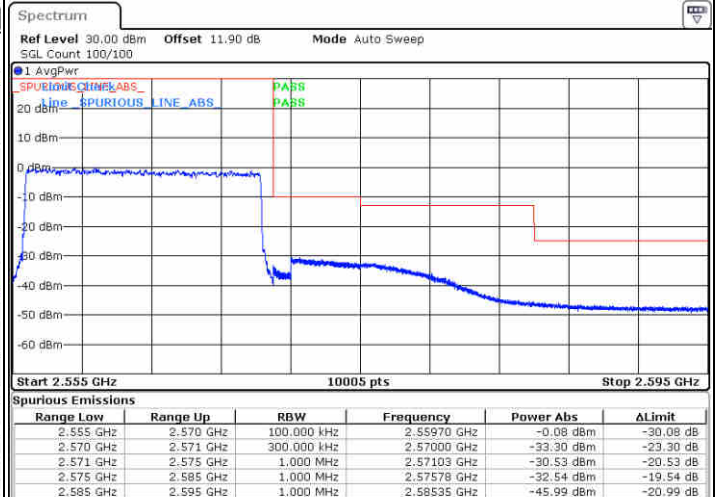
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



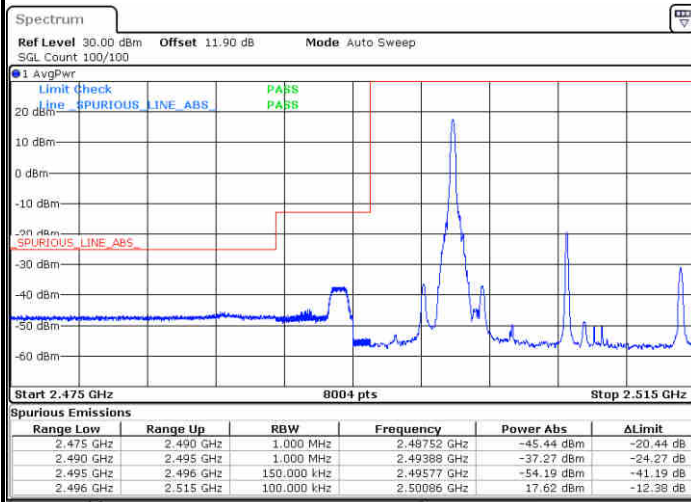
Highest Band Edge / Full RB





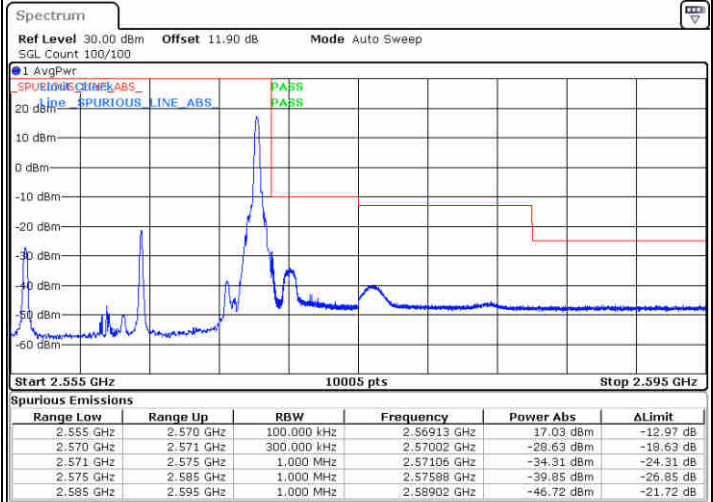
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



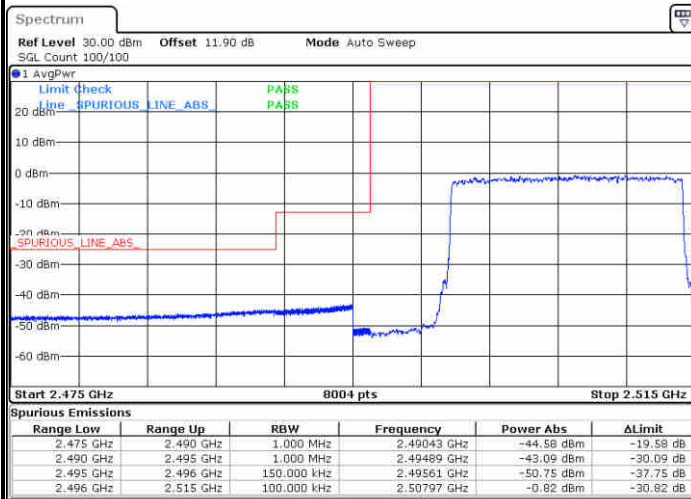
Date: 30.SEP.2017 15:19:07

Highest Band Edge / 1 RB



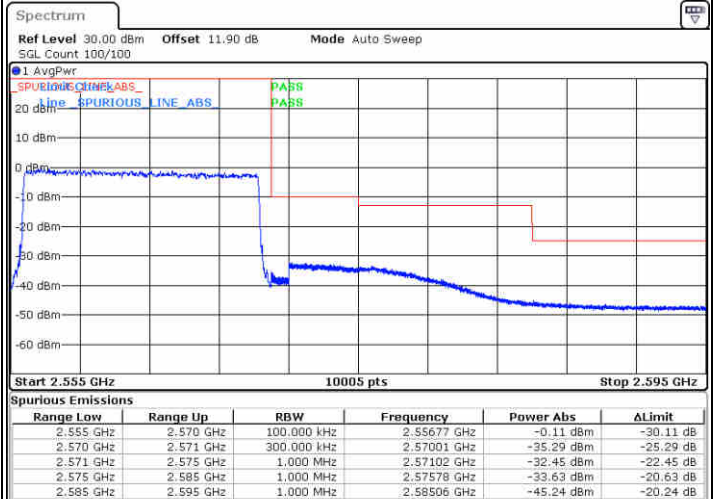
Date: 30.SEP.2017 15:23:52

Lowest Band Edge / Full RB



Date: 30.SEP.2017 15:20:16

Highest Band Edge / Full RB

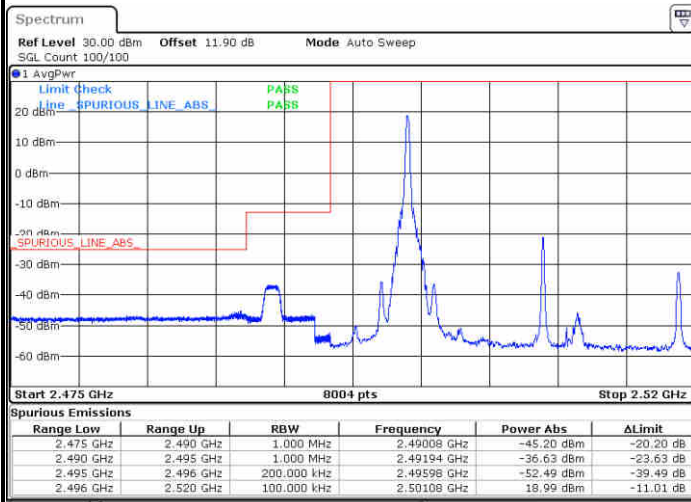


Date: 30.SEP.2017 15:25:01



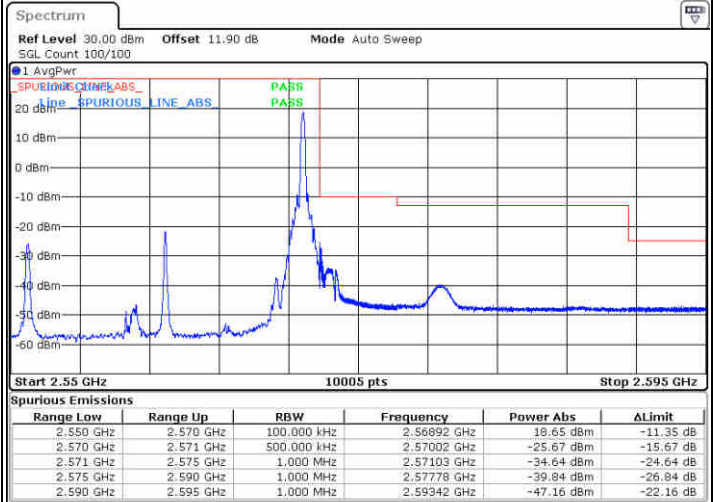
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



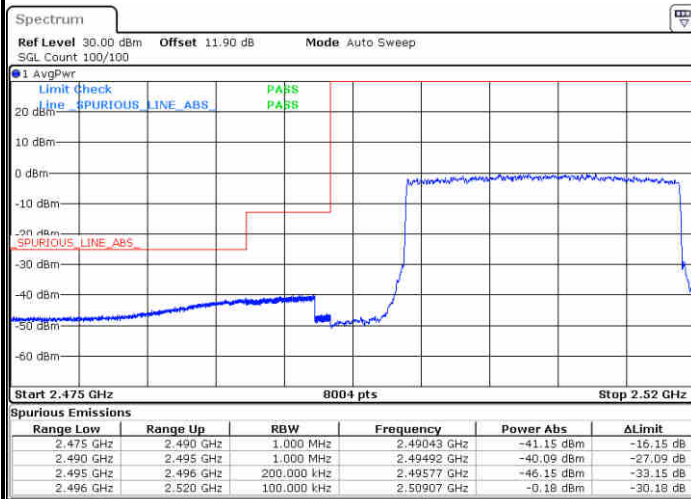
Date: 27.SEP.2017 01:43:01

Highest Band Edge / 1 RB



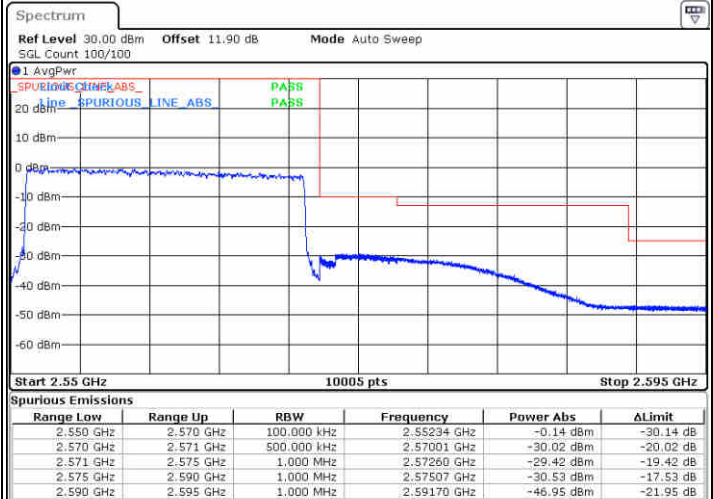
Date: 27.SEP.2017 01:52:32

Lowest Band Edge / Full RB



Date: 27.SEP.2017 01:45:20

Highest Band Edge / Full RB

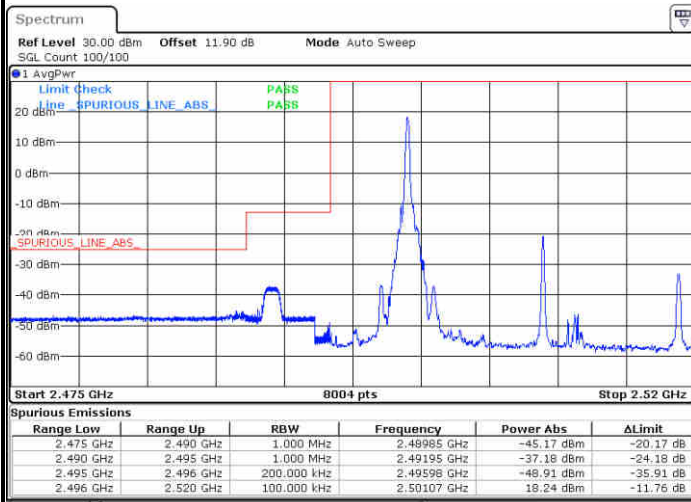


Date: 27.SEP.2017 01:55:59



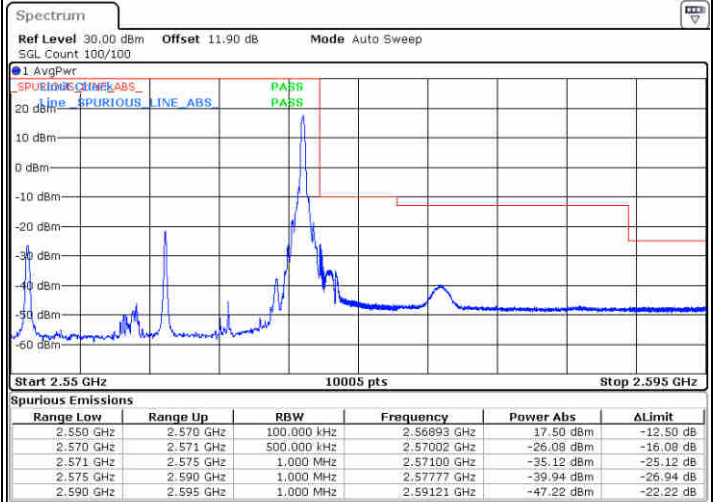
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



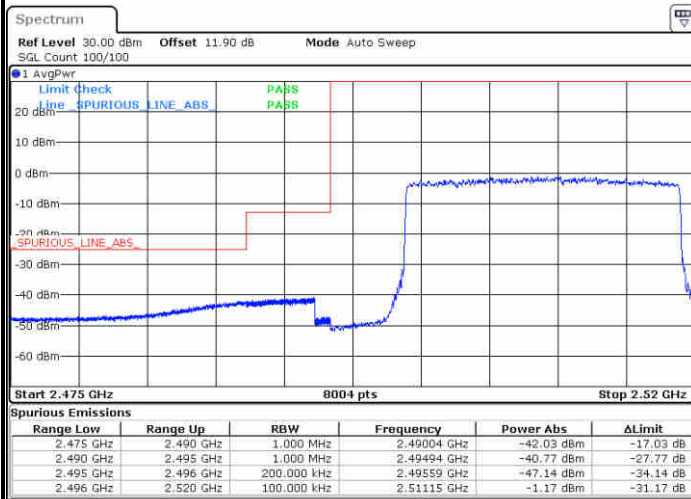
Date: 27.SEP.2017 01:44:11

Highest Band Edge / 1RB



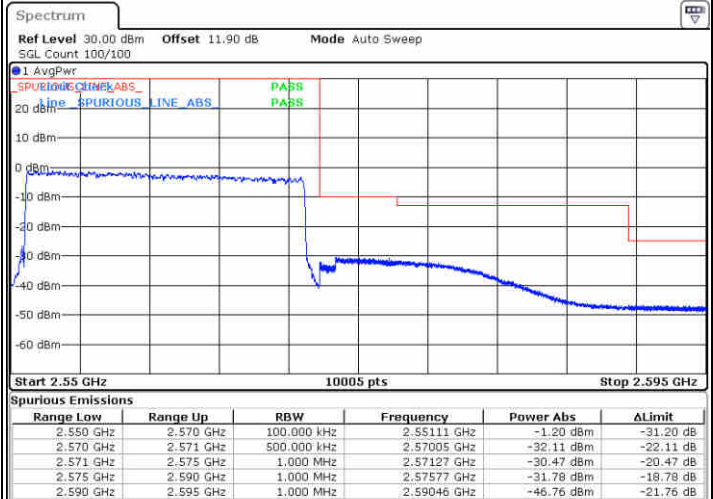
Date: 27.SEP.2017 01:53:41

Lowest Band Edge / Full RB



Date: 27.SEP.2017 01:46:29

Highest Band Edge / Full RB

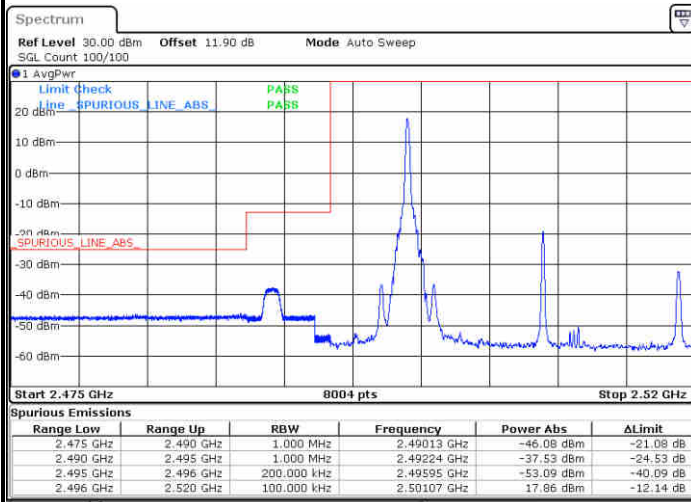


Date: 27.SEP.2017 01:54:50

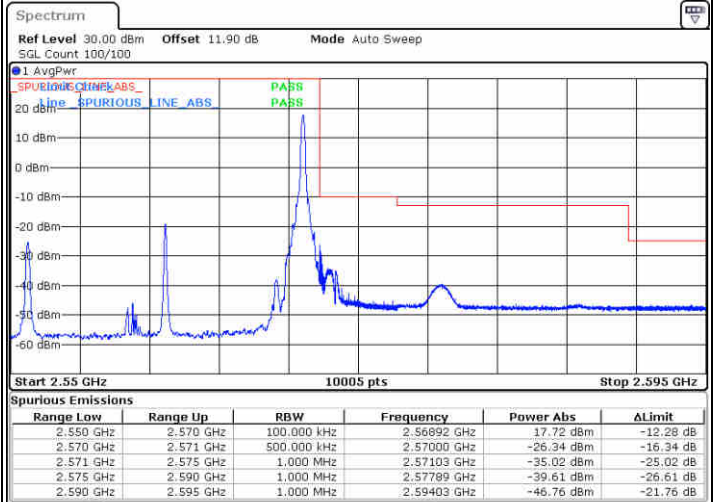


LTE Band 7 / 20MHz / 64QAM

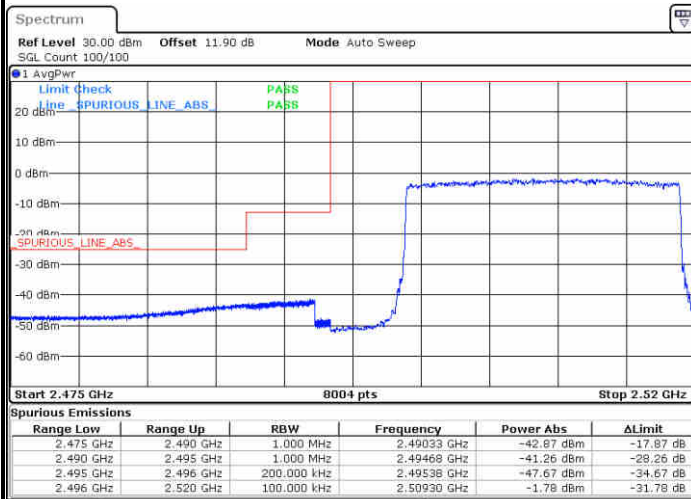
Lowest Band Edge / 1 RB



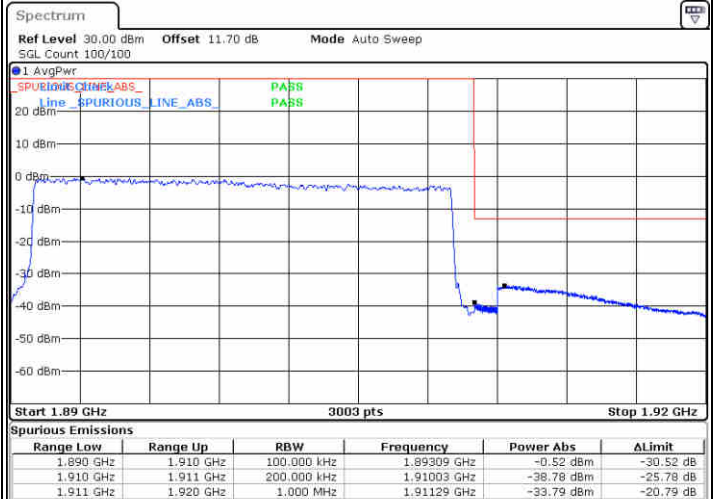
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

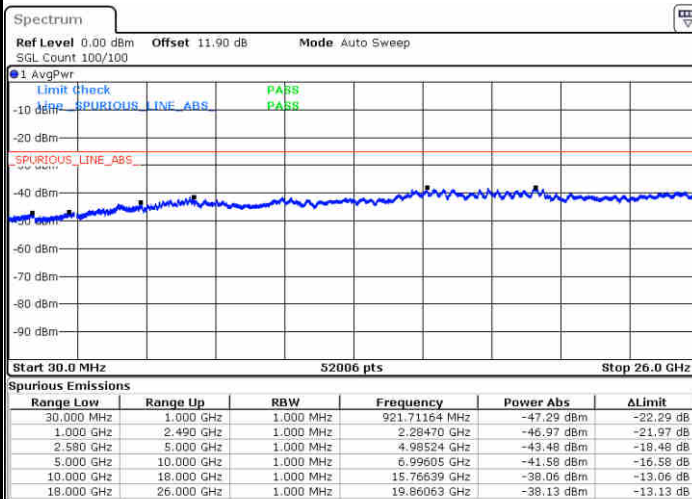




Conducted Spurious Emission

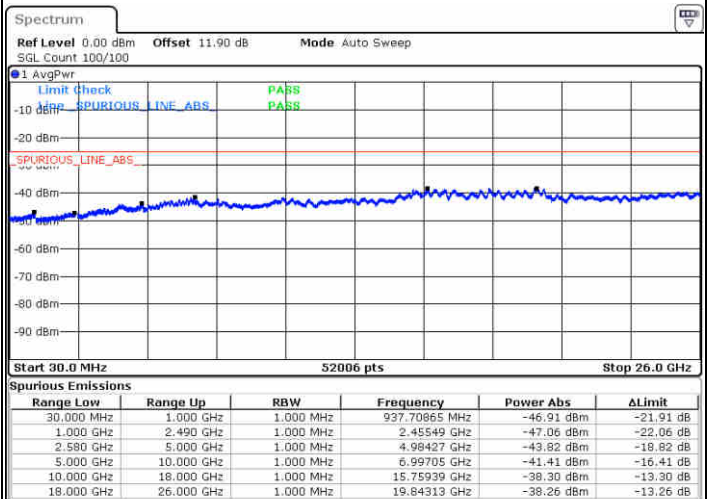
LTE Band 7 / 5MHz

Lowest Channel / QPSK



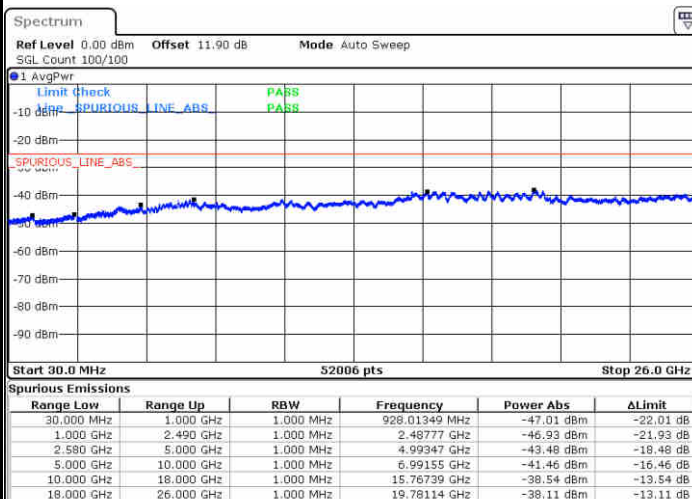
Date: 27.SEP.2017 00:57:42

Lowest Channel / 16QAM



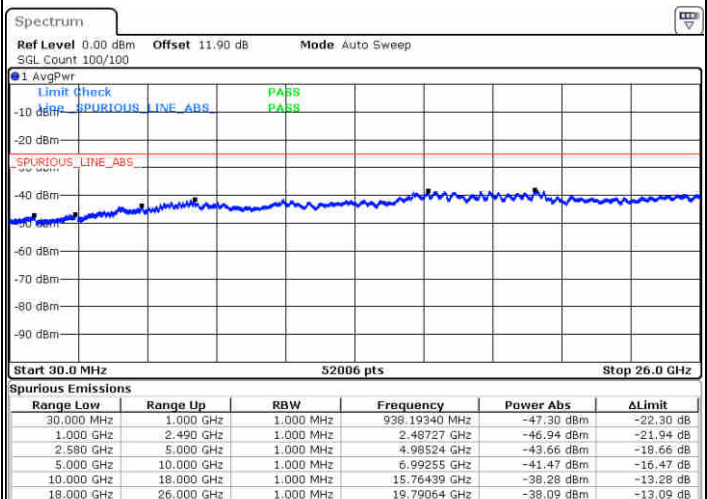
Date: 27.SEP.2017 00:58:35

Middle Channel / QPSK



Date: 27.SEP.2017 01:00:08

Middle Channel / 16QAM

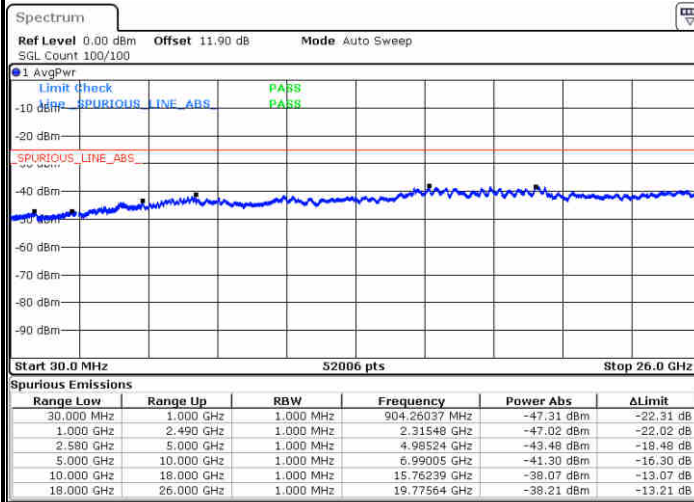


Date: 27.SEP.2017 01:01:01



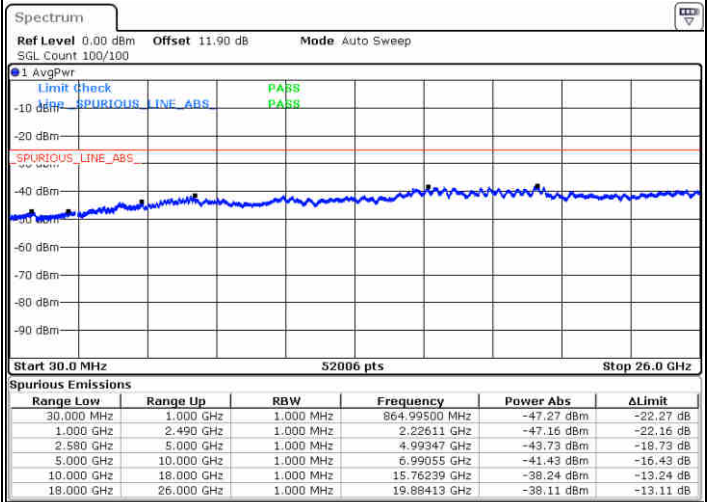
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 27.SEP.2017 01:07:12

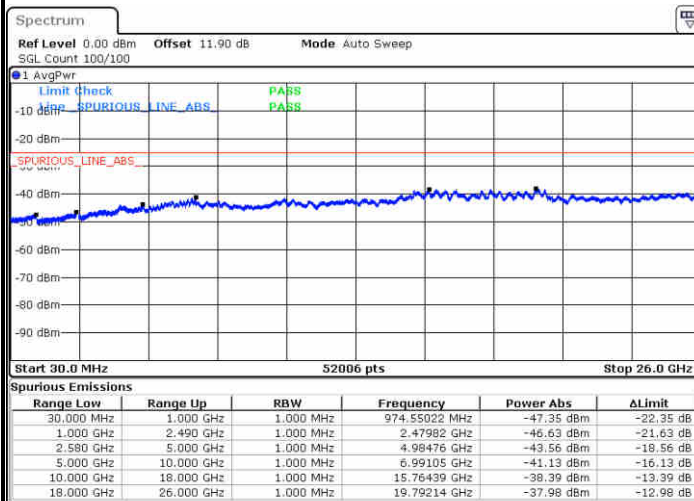
Highest Channel / 16QAM



Date: 27.SEP.2017 01:08:05

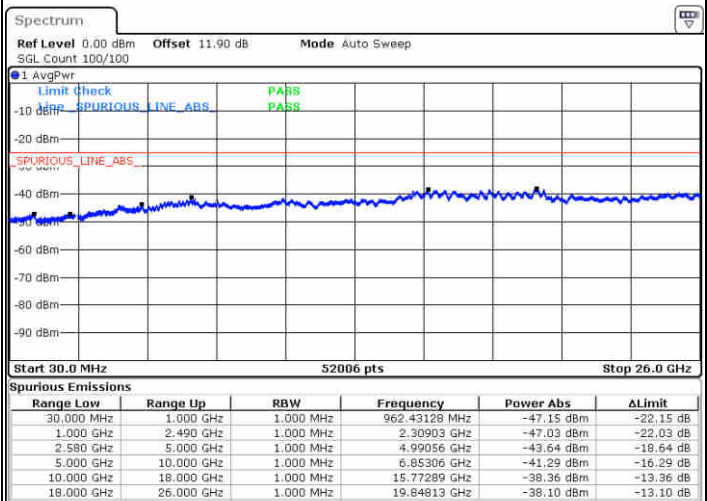
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 27.SEP.2017 01:14:15

Lowest Channel / 16QAM

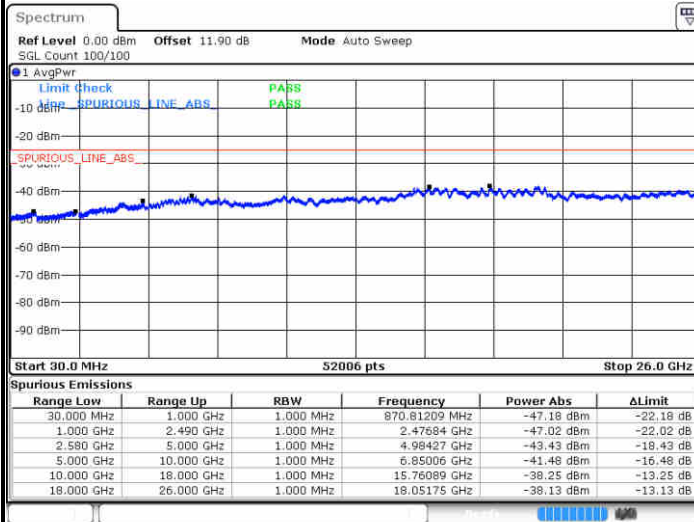


Date: 27.SEP.2017 01:15:09



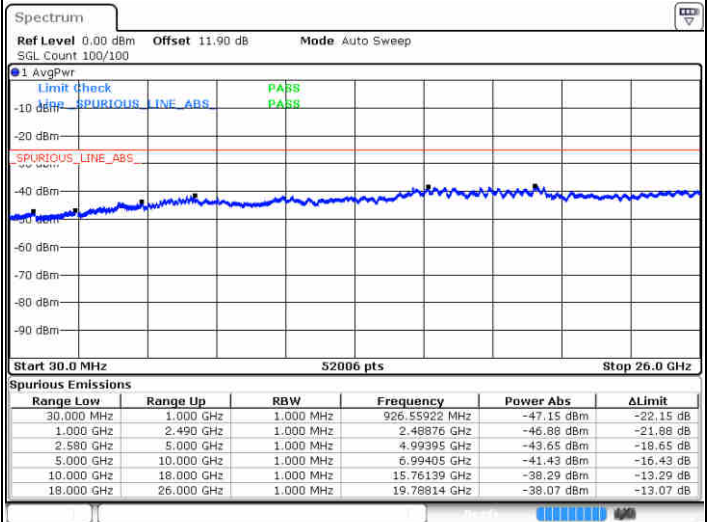
LTE Band 7 / 10MHz

Middle Channel / QPSK



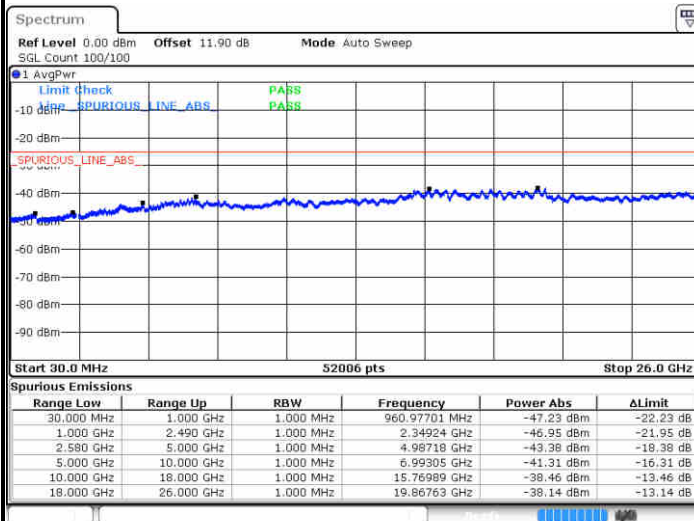
Date: 27.SEP.2017 01:16:42

Middle Channel / 16QAM



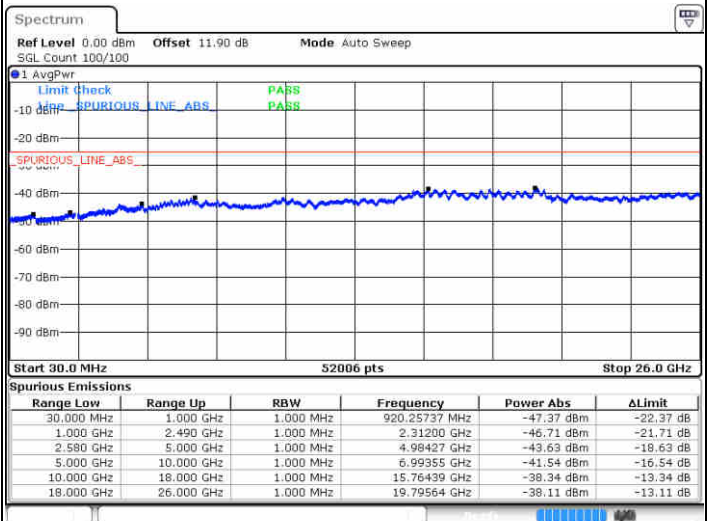
Date: 27.SEP.2017 01:17:35

Highest Channel / QPSK



Date: 27.SEP.2017 01:23:46

Highest Channel / 16QAM

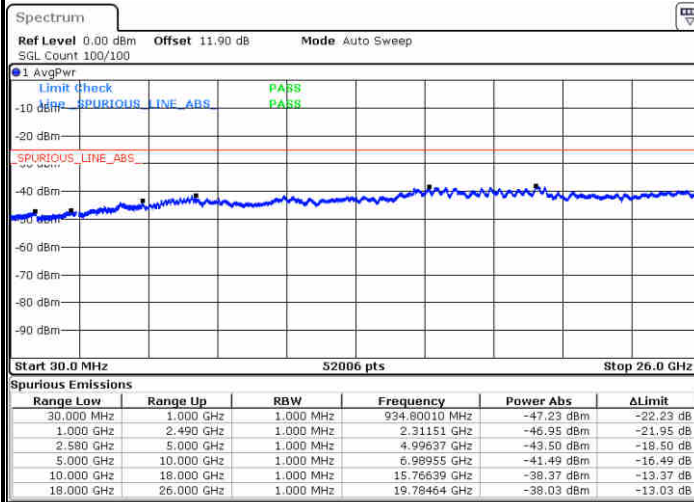


Date: 27.SEP.2017 01:24:39



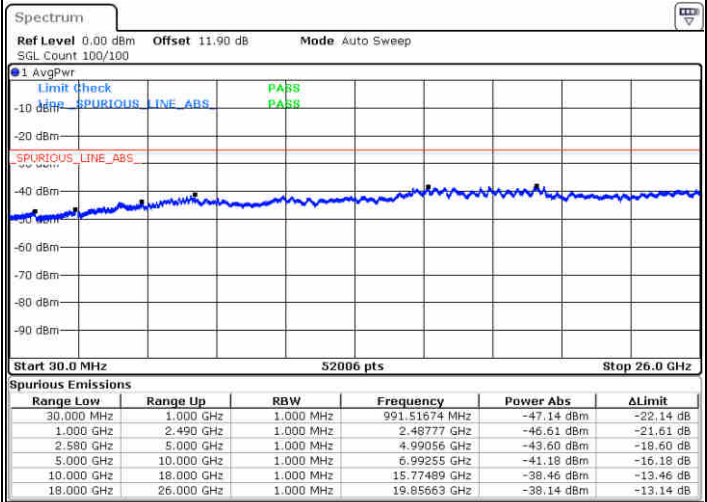
LTE Band 7 / 15MHz

Lowest Channel / QPSK



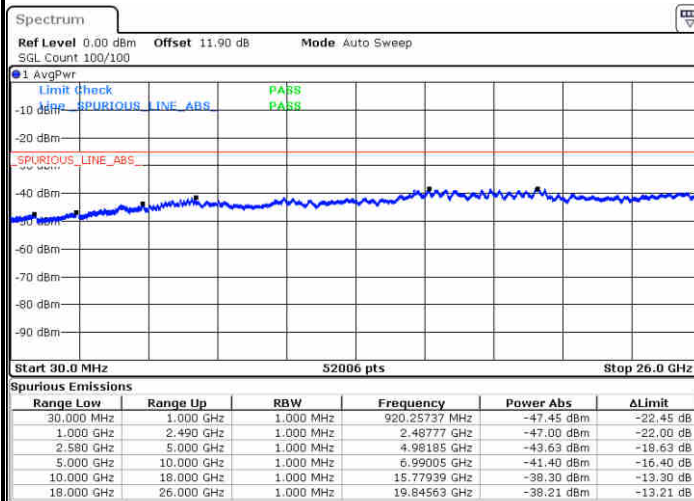
Date: 27.SEP.2017 01:30:49

Lowest Channel / 16QAM



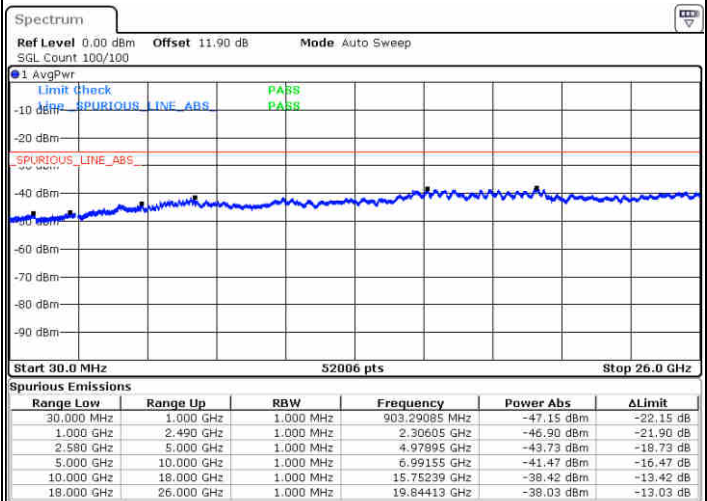
Date: 27.SEP.2017 01:31:42

Middle Channel / QPSK



Date: 27.SEP.2017 01:33:16

Middle Channel / 16QAM

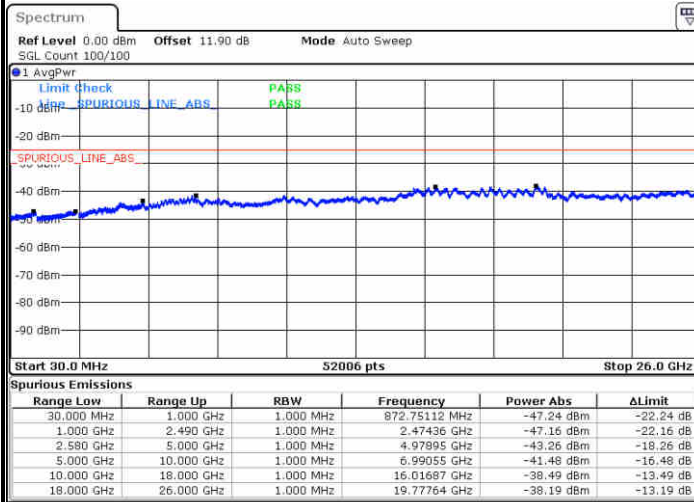


Date: 27.SEP.2017 01:34:09



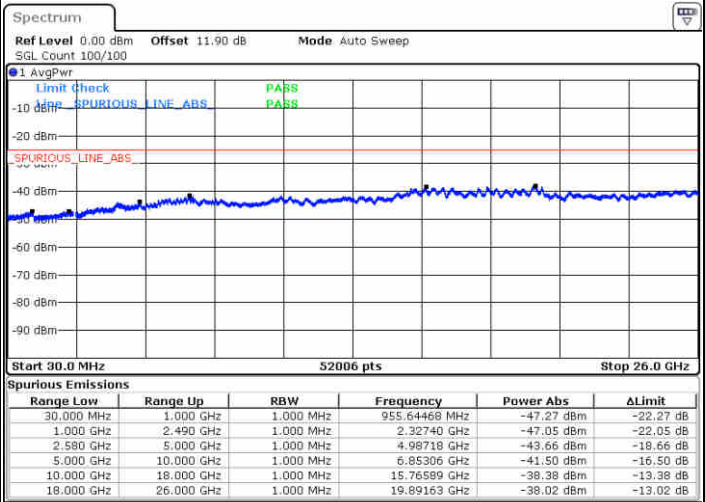
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 27.SEP.2017 01:40:19

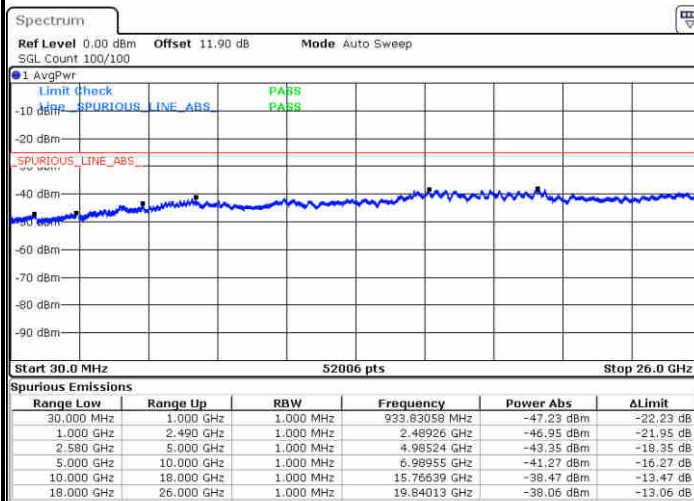
Highest Channel / 16QAM



Date: 27.SEP.2017 01:41:13

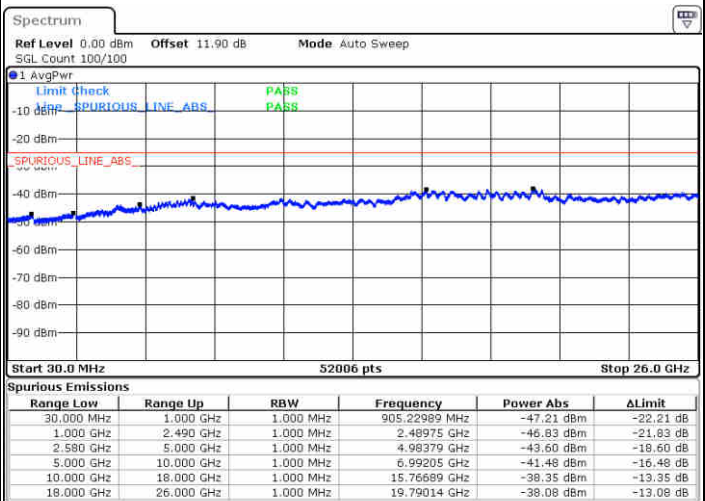
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 27.SEP.2017 01:47:23

Lowest Channel / 16QAM

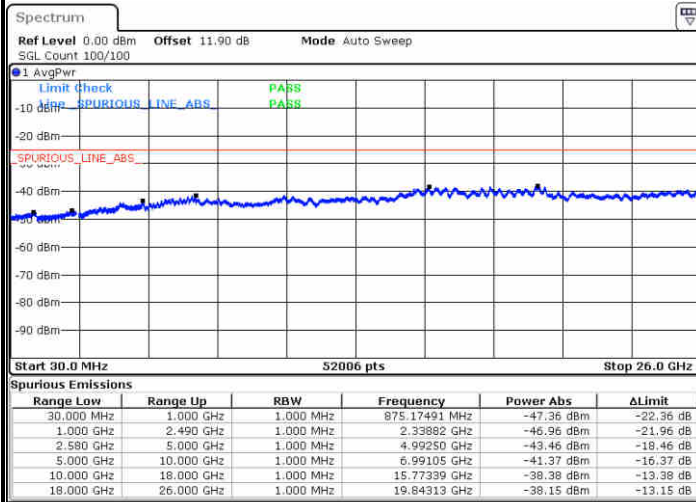


Date: 27.SEP.2017 01:48:16



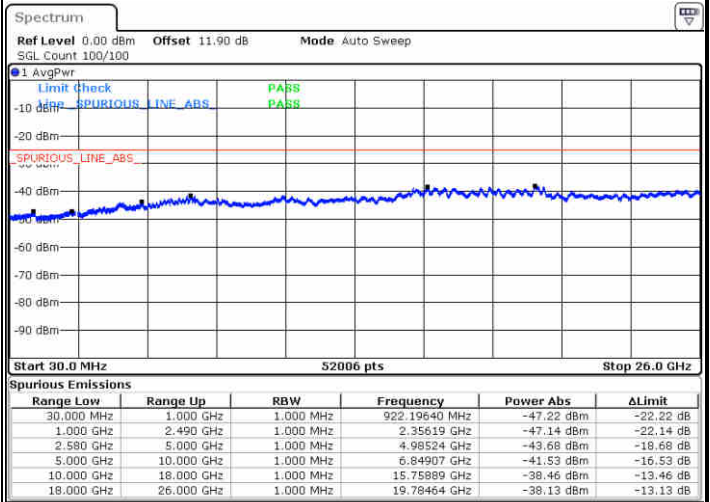
LTE Band 7 / 20MHz

Middle Channel / QPSK



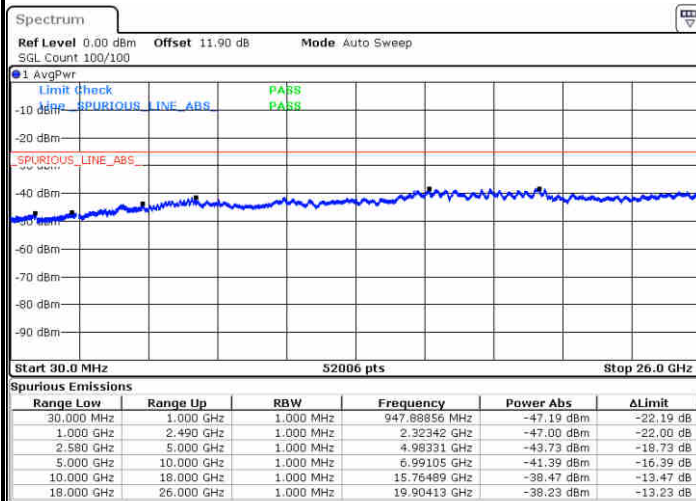
Date: 27.SEP.2017 01:49:49

Middle Channel / 16QAM



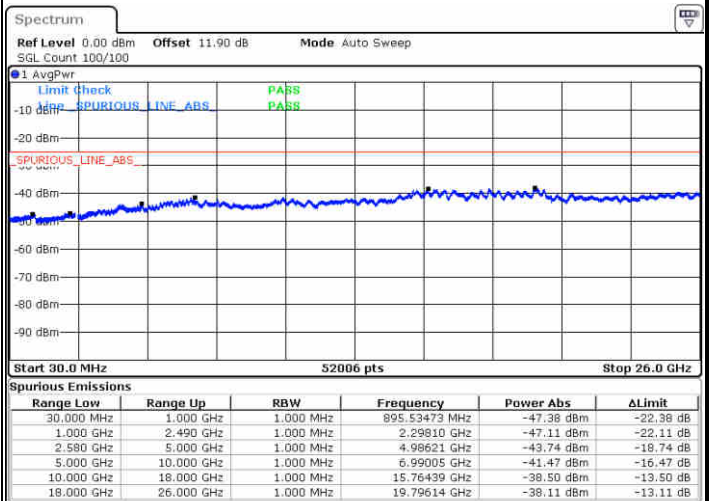
Date: 27.SEP.2017 01:50:43

Highest Channel / QPSK



Date: 27.SEP.2017 01:56:53

Highest Channel / 16QAM

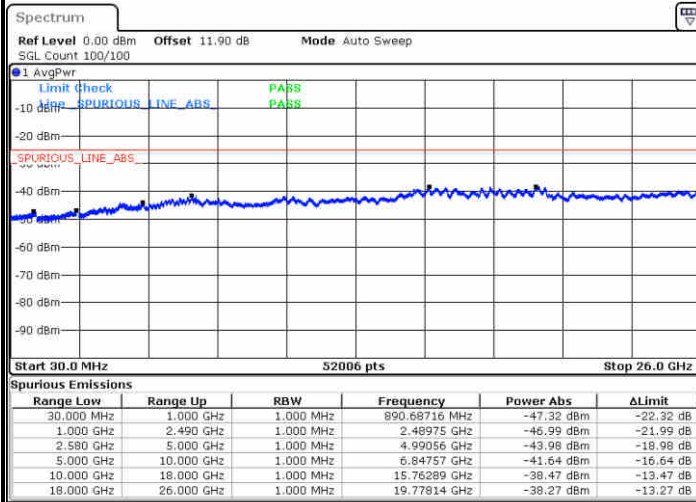


Date: 27.SEP.2017 01:57:46



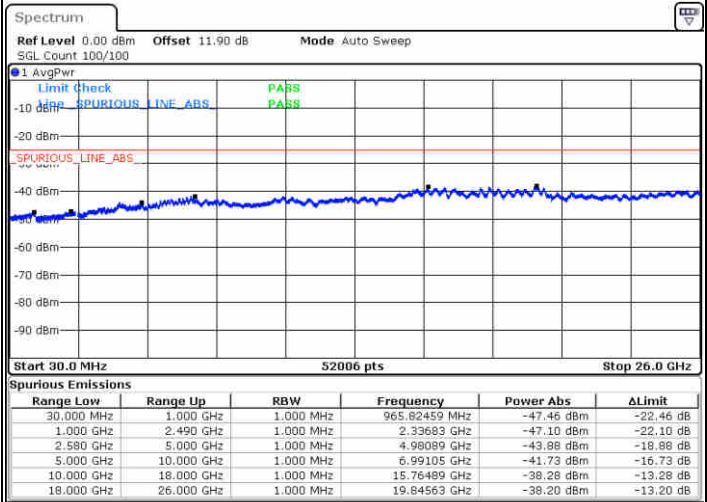
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



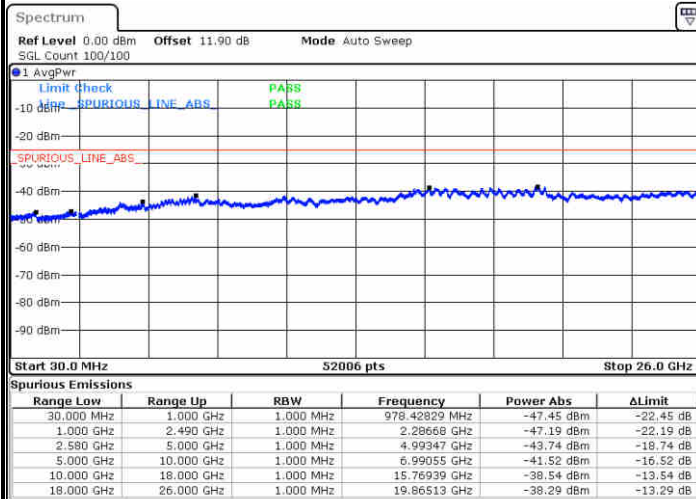
Date: 3.OCT.2017 10:05:42

Middle Channel / 64QAM



Date: 3.OCT.2017 10:06:35

Highest Channel / 64QAM

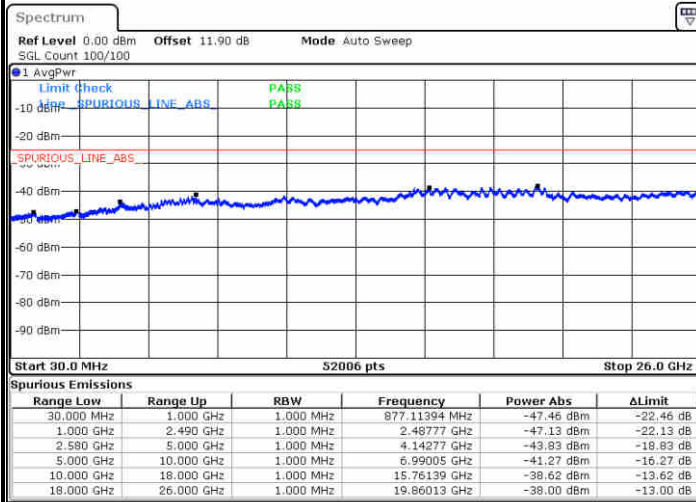


Date: 3.OCT.2017 10:07:28



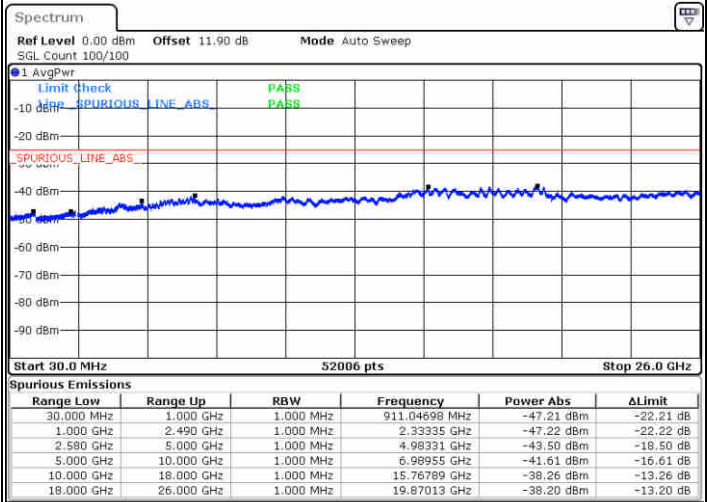
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



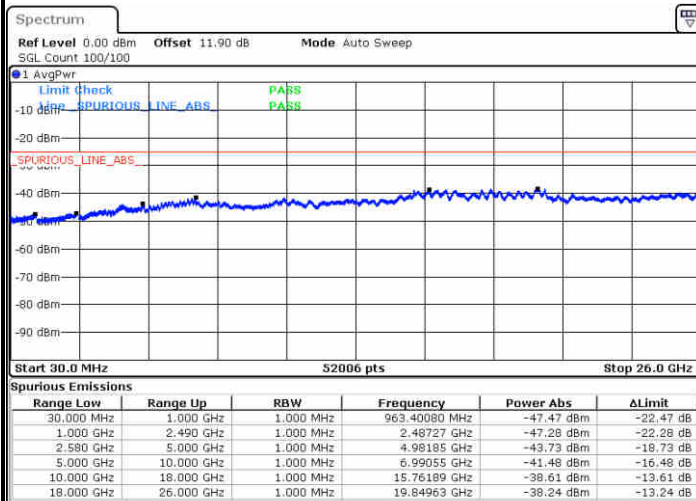
Date: 3.OCT.2017 10:08:21

Middle Channel / 64QAM



Date: 3.OCT.2017 10:08:15

Highest Channel / 64QAM

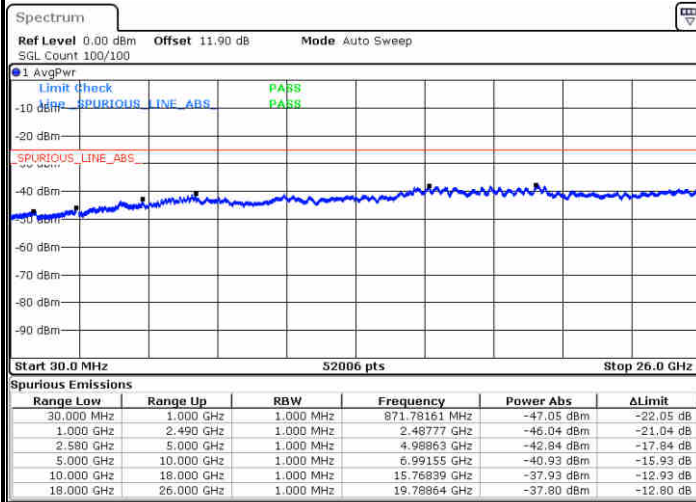


Date: 3.OCT.2017 10:10:08



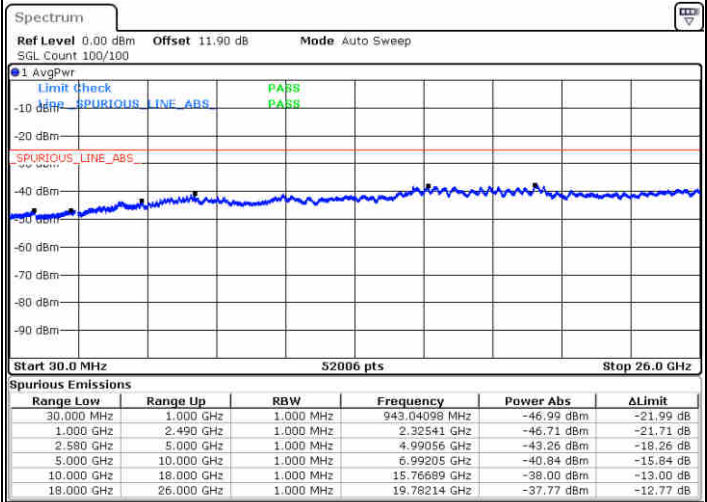
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



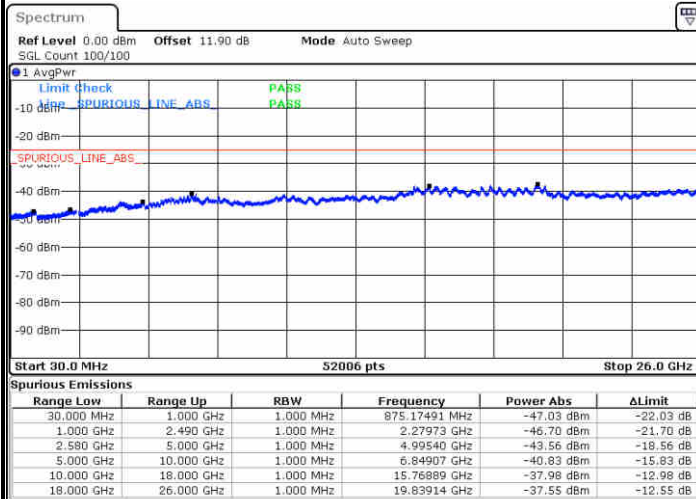
Date: 30 SEP.2017 15:21:10

Middle Channel / 64QAM



Date: 30 SEP.2017 15:22:23

Highest Channel / 64QAM

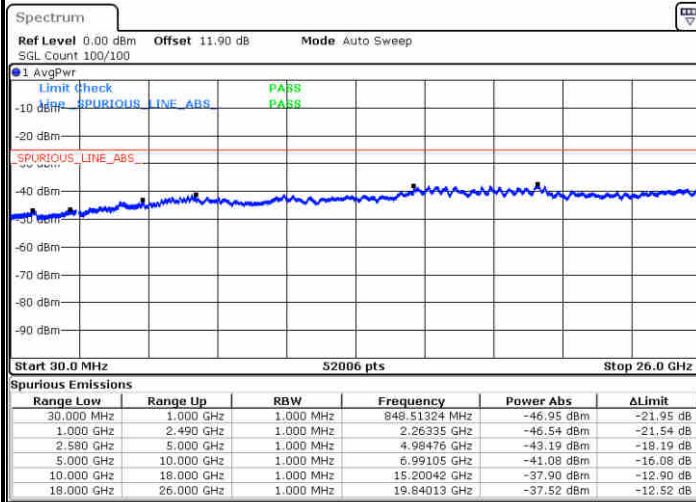


Date: 30 SEP.2017 15:25:55



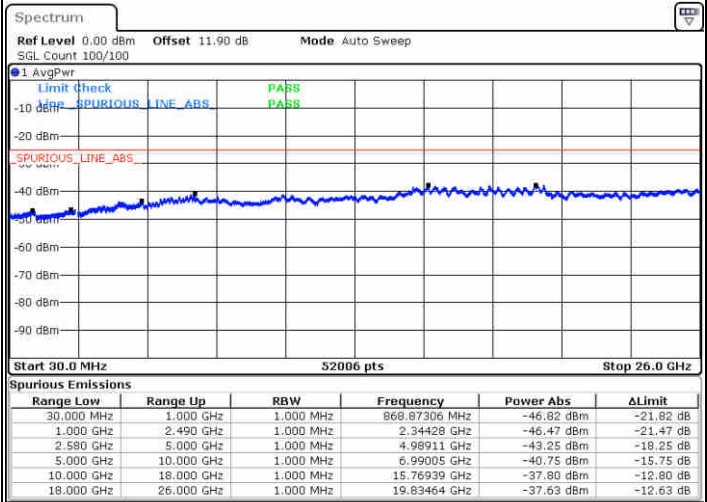
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



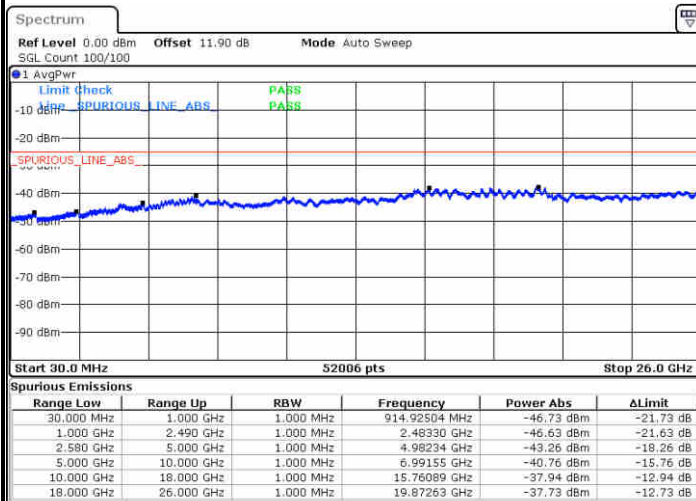
Date: 30 SEP.2017 15:29:27

Middle Channel / 64QAM



Date: 30 SEP.2017 15:30:40

Highest Channel / 64QAM



Date: 30 SEP.2017 15:34:11

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0050	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0064	
-20	Normal Voltage	0.0065	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	9.3	PASS
40	Normal Voltage	12.7	
30	Normal Voltage	11.1	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	-1.9	
0	Normal Voltage	-6.5	
-10	Normal Voltage	16.2	
-20	Normal Voltage	16.5	
-30	Normal Voltage	-1.7	
20	Maximum Voltage	-3.5	
20	Normal Voltage	0	
20	Battery End Point	2.1	

$|\text{MAX}(\Delta f)| = 16.5\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.169984	$\geq 2500 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.836017	$\leq 2570 \text{ MHz}$	



LTE Band 7_CA

26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)		
QPSK			
BW	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.78	30.48	34.75
Middle CH	30.04	30.48	34.95
Highest CH	29.78	30.65	34.65
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	30.13	34.85	39.71
Middle CH	30.13	34.95	39.83
Highest CH	29.96	34.95	39.59

Mode	LTE Band 7 : 26dB BW(MHz)		
16QAM			
BW	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.87	30.39	34.85
Middle CH	29.96	30.39	34.75
Highest CH	29.7	30.39	34.95
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	29.87	34.95	39.71
Middle CH	30.04	34.95	39.83
Highest CH	30.04	34.95	39.71

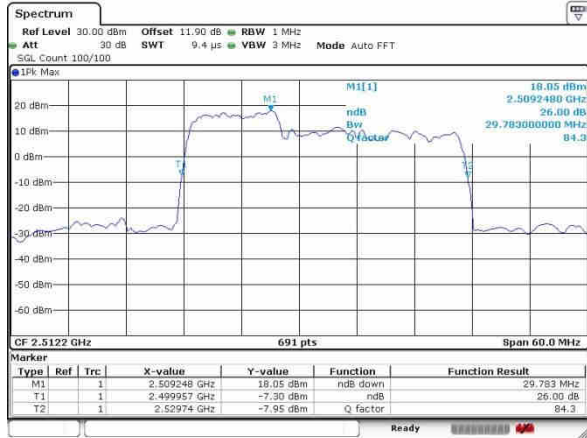
Mode	LTE Band 7 : 26dB BW(MHz)		
64QAM			
BW	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.7	30.48	34.85
Middle CH	29.87	30.65	34.75
Highest CH	29.78	30.48	34.75
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	29.96	34.75	39.94
Middle CH	30.04	34.85	39.83
Highest CH	29.87	34.75	39.71



LTE Band 7

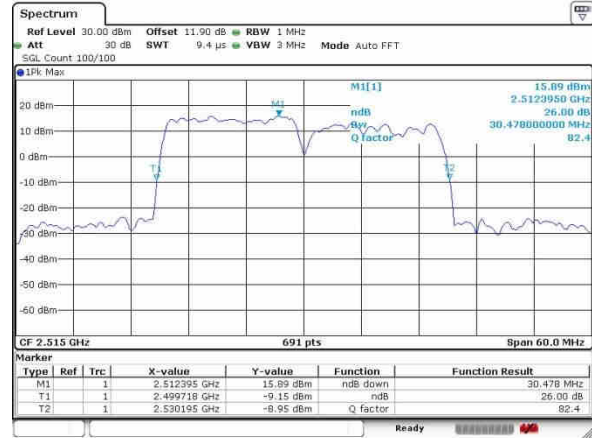
QPSK

Lowest Channel / 10MHz+20MHz



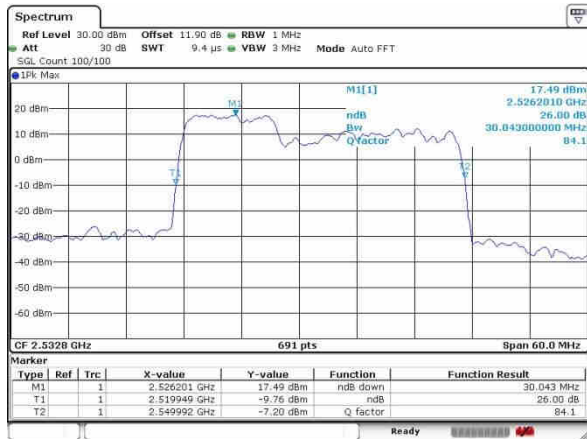
Date: 27 SEP 2017 11:06:06

Lowest Channel / 15MHz+15MHz



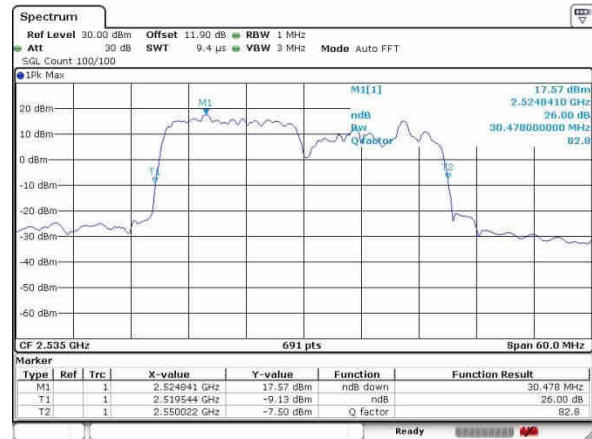
Date: 27 SEP 2017 15:19:55

Middle Channel / 10MHz+20MHz



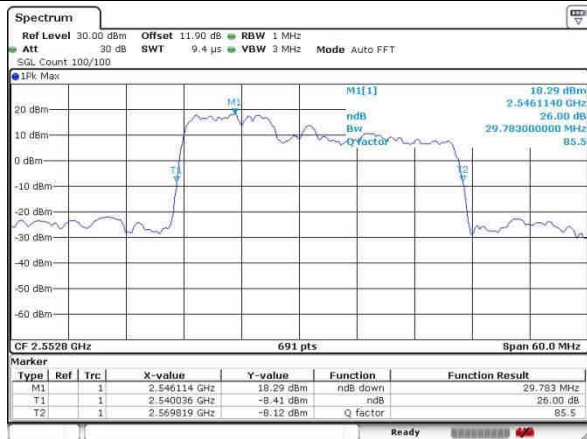
Date: 27 SEP 2017 13:43:43

Middle Channel / 15MHz+15MHz



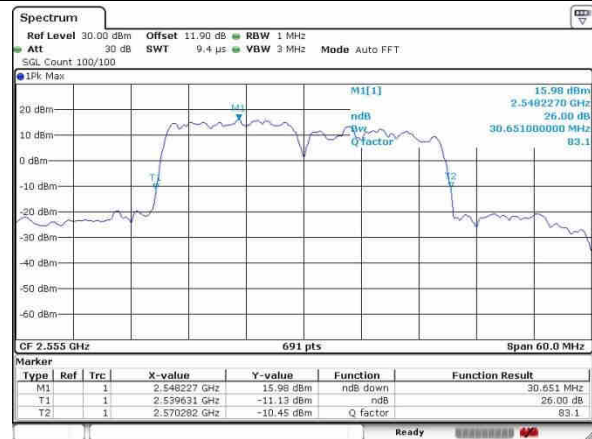
Date: 27 SEP 2017 16:01:38

Highest Channel / 10MHz+20MHz



Date: 27 SEP 2017 13:47:47

Highest Channel / 15MHz+15MHz



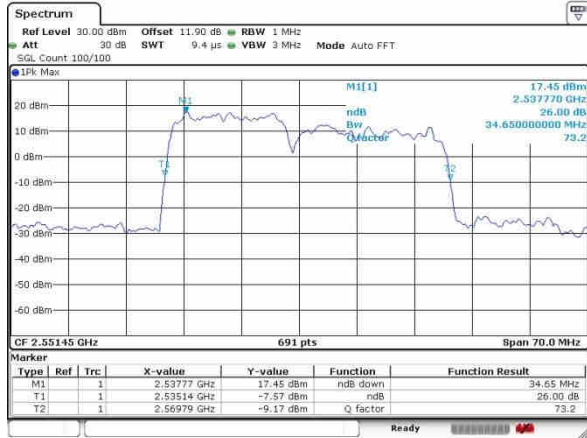
Date: 27 SEP 2017 16:05:25



LTE Band 7

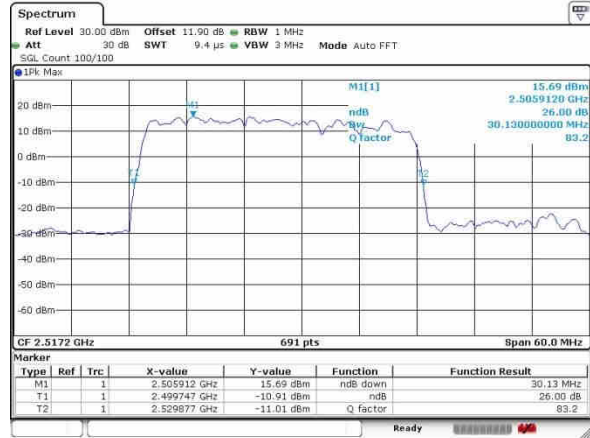
QPSK

Lowest Channel / 15MHz+20MHz



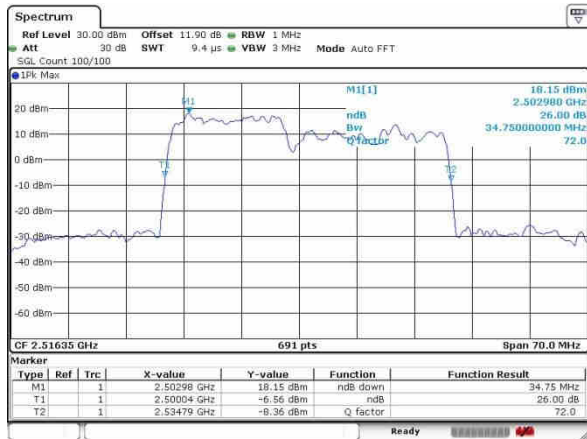
Date: 30 SEP 2017 12:11:03

Lowest Channel / 20MHz+10MHz



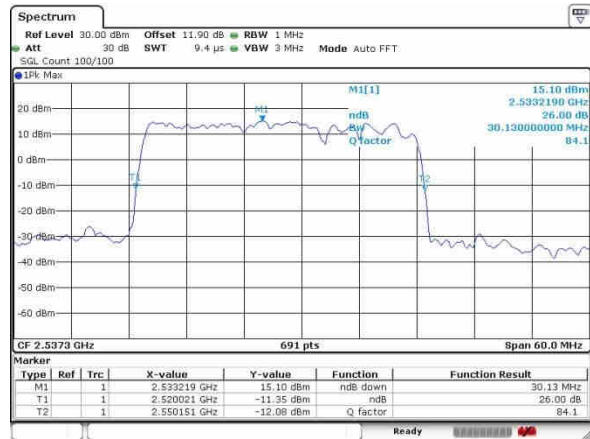
Date: 27 SEP 2017 13:59:59

Middle Channel / 15MHz+20MHz



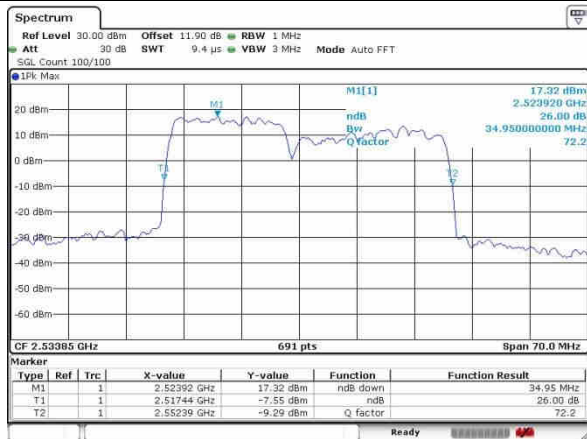
Date: 30 SEP 2017 12:07:03

Middle Channel / 20MHz+10MHz



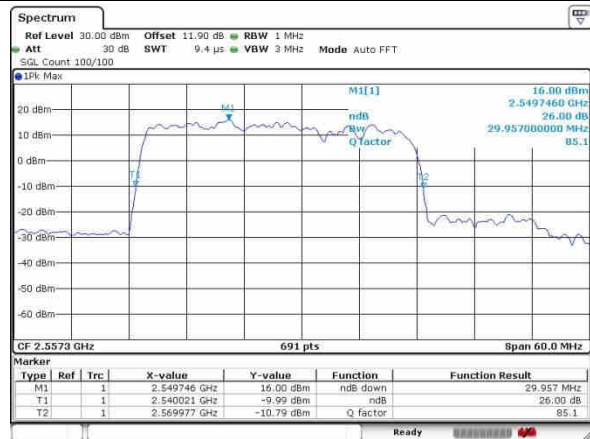
Date: 27 SEP 2017 15:01:51

Highest Channel / 15MHz+20MHz



Date: 30 SEP 2017 12:28:16

Highest Channel / 20MHz+10MHz



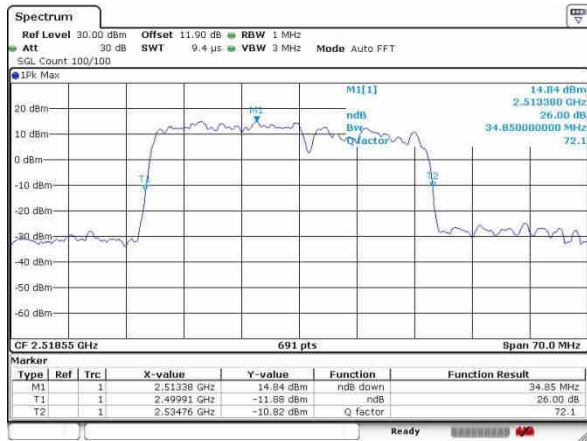
Date: 27 SEP 2017 15:08:26



LTE Band 7

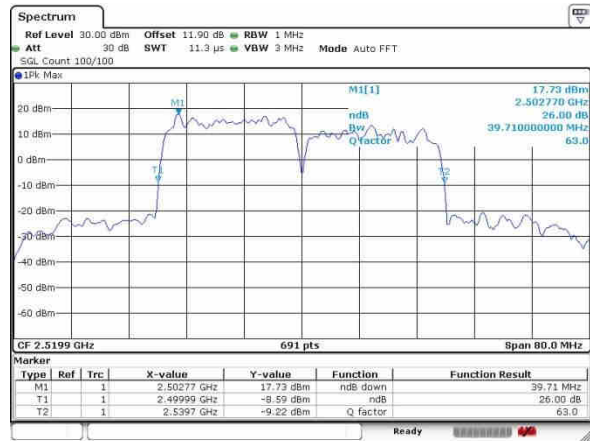
QPSK

Lowest Channel / 20MHz+15MHz



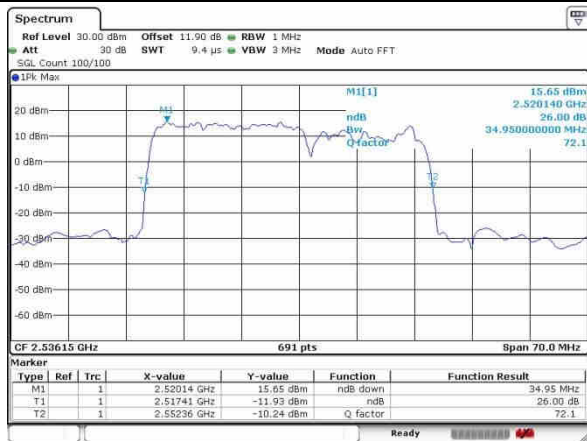
Date: 27 SEP 2017 17:28:58

Lowest Channel / 20MHz+20MHz



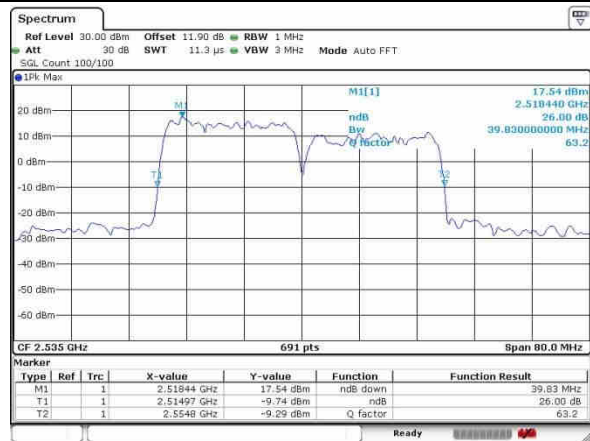
Date: 30 SEP 2017 11:13:38

Middle Channel / 20MHz+15MHz



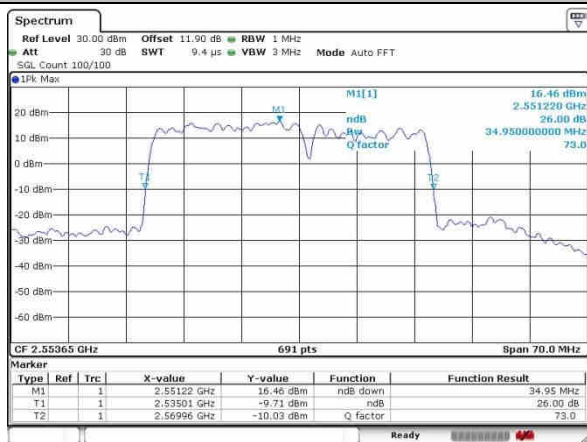
Date: 30 SEP 2017 12:26:07

Middle Channel / 20MHz+20MHz



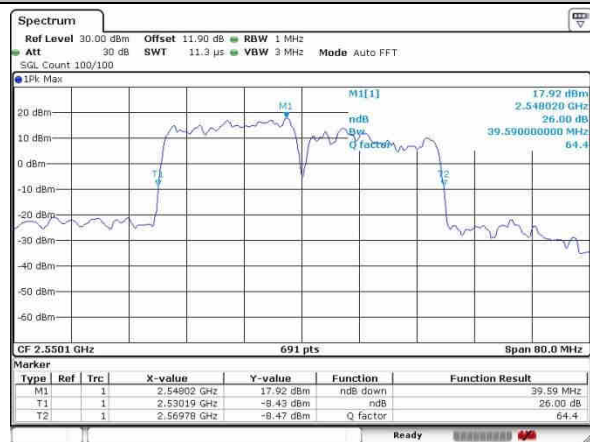
Date: 30 SEP 2017 11:17:13

Highest Channel / 20MHz+15MHz



Date: 30 SEP 2017 12:18:11

Highest Channel / 20MHz+20MHz



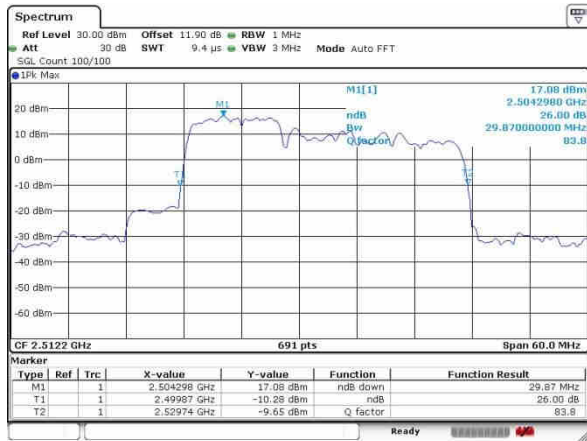
Date: 30 SEP 2017 11:20:33



LTE Band 7

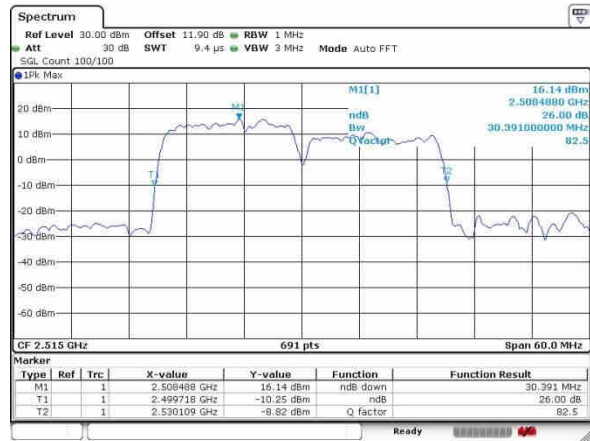
16QAM

Lowest Channel / 10MHz+20MHz



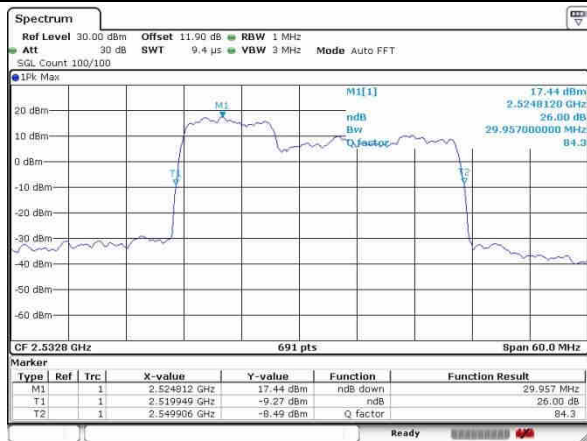
Date: 27 SEP 2017 11:05:56

Lowest Channel / 15MHz+15MHz



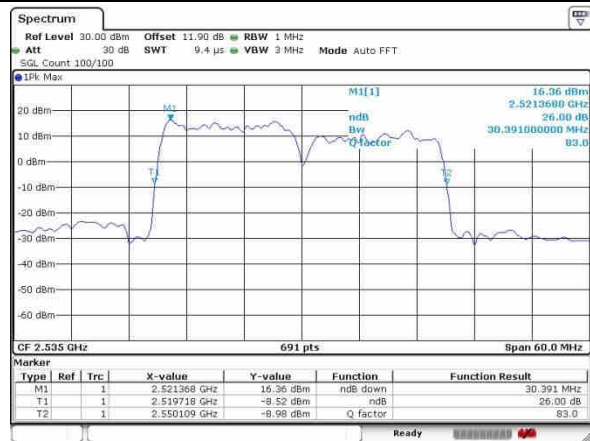
Date: 27 SEP 2017 15:19:44

Middle Channel / 10MHz+20MHz



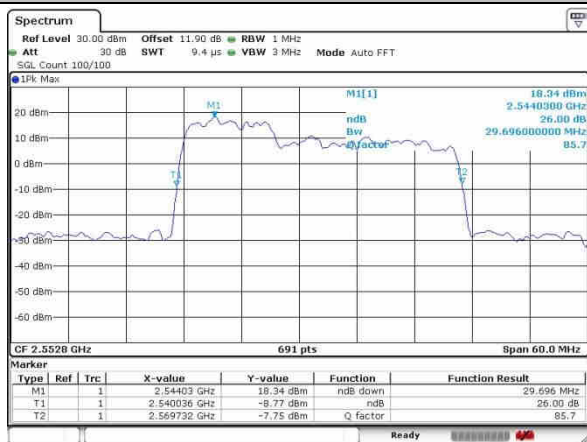
Date: 27 SEP 2017 13:43:29

Middle Channel / 15MHz+15MHz



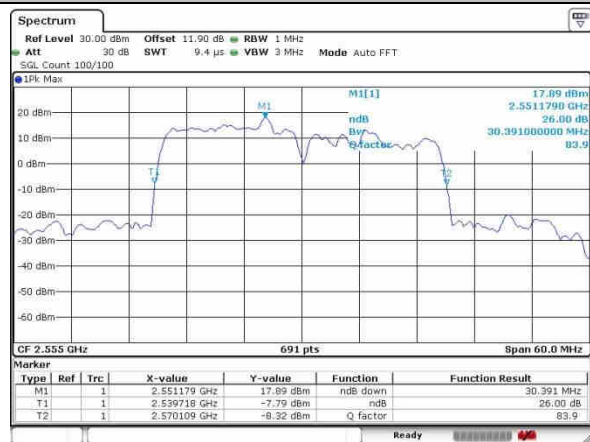
Date: 27 SEP 2017 16:01:27

Highest Channel / 10MHz+20MHz



Date: 27 SEP 2017 13:47:59

Highest Channel / 15MHz+15MHz



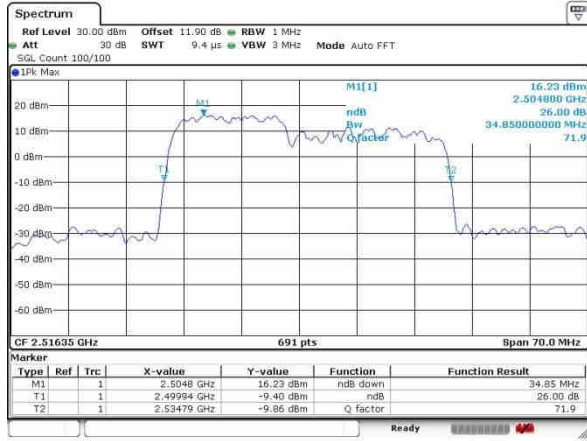
Date: 27 SEP 2017 16:05:35



LTE Band 7

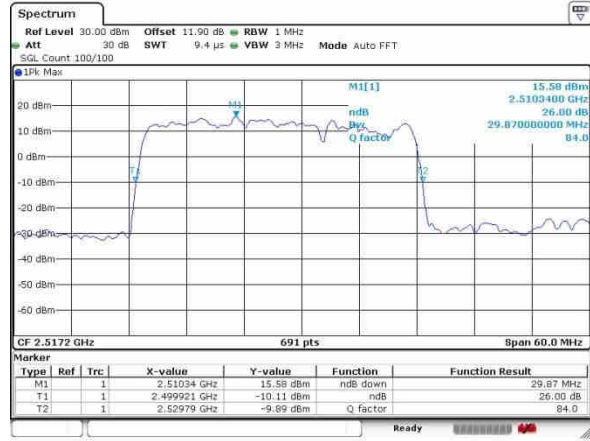
16QAM

Lowest Channel / 15MHz+20MHz



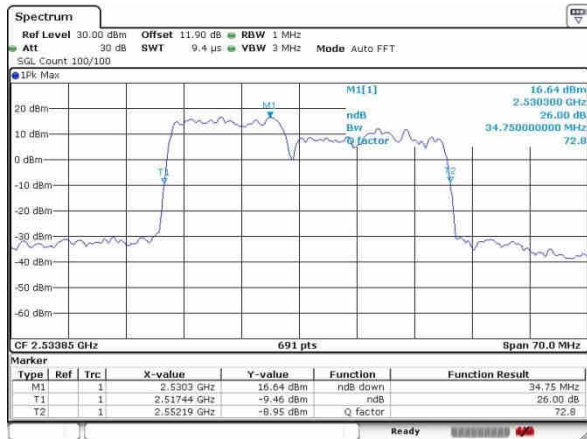
Date: 30 SEP 2017 12:06:55

Lowest Channel / 20MHz+10MHz



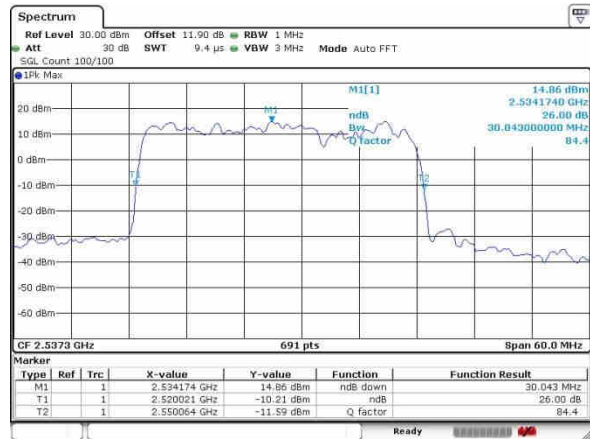
Date: 27 SEP 2017 13:59:47

Middle Channel / 15MHz+20MHz



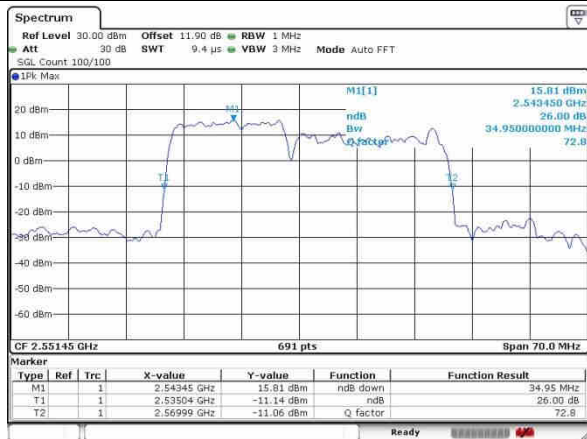
Date: 30 SEP 2017 12:08:11

Middle Channel / 20MHz+10MHz



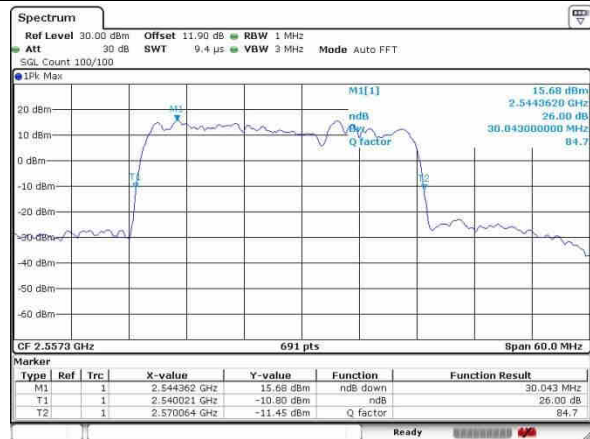
Date: 27 SEP 2017 15:01:34

Highest Channel / 15MHz+20MHz



Date: 30 SEP 2017 12:10:50

Highest Channel / 20MHz+10MHz



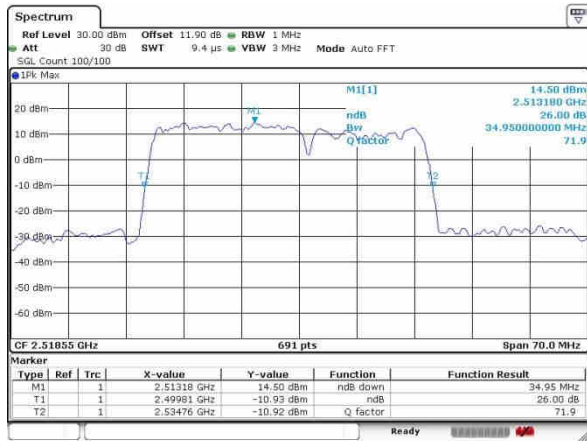
Date: 27 SEP 2017 15:08:38



LTE Band 7

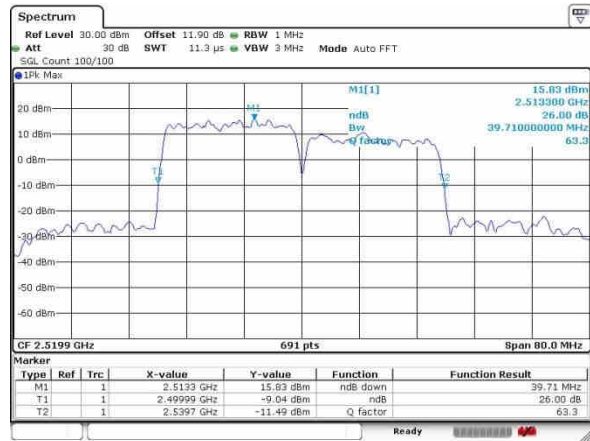
16QAM

Lowest Channel / 20MHz+15MHz



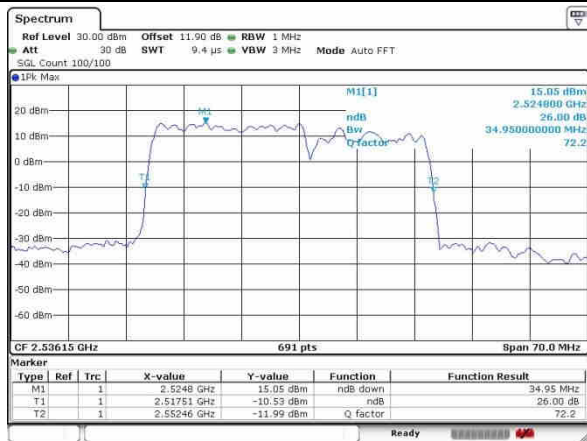
Date: 27 SEP 2017 17:28:46

Lowest Channel / 20MHz+20MHz



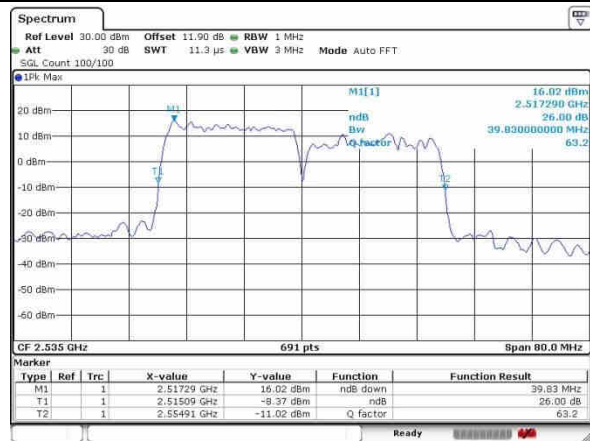
Date: 30 SEP 2017 11:13:29

Middle Channel / 20MHz+15MHz



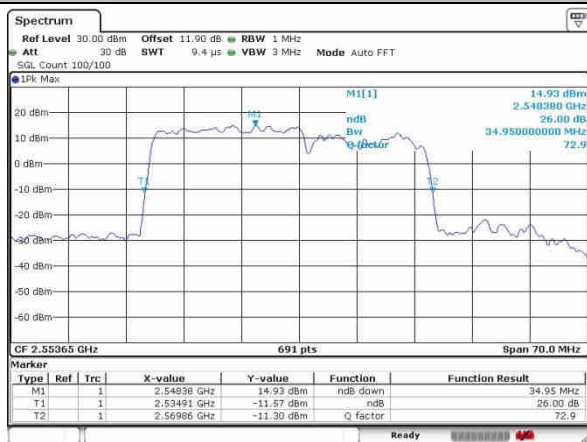
Date: 30 SEP 2017 12:15:42

Middle Channel / 20MHz+20MHz



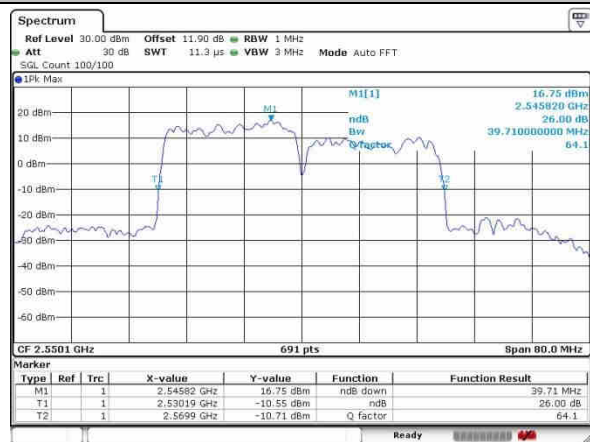
Date: 30 SEP 2017 11:17:23

Highest Channel / 20MHz+15MHz



Date: 30 SEP 2017 12:18:02

Highest Channel / 20MHz+20MHz



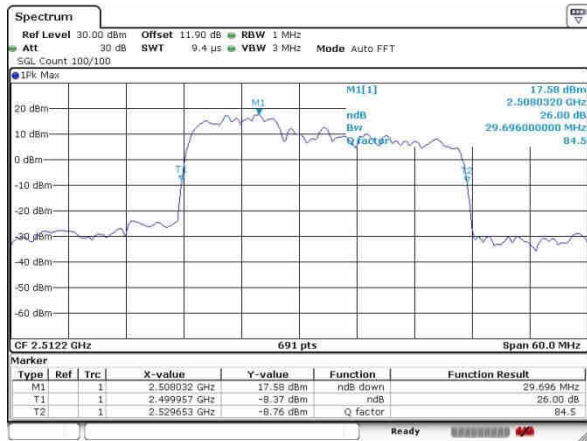
Date: 30 SEP 2017 11:20:24



LTE Band 7

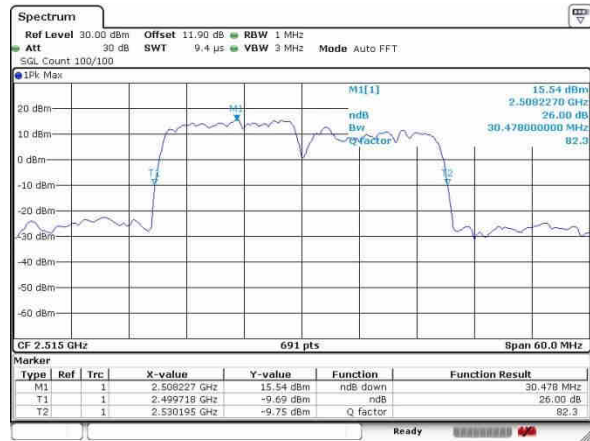
64QAM

Lowest Channel / 10MHz+20MHz



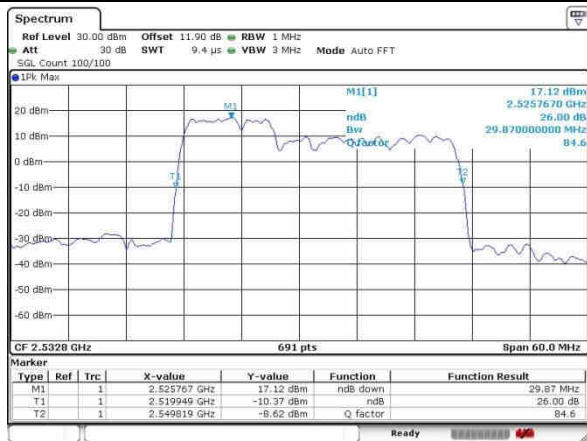
Date: 27 SEP 2017 11:05:46

Lowest Channel / 15MHz+15MHz



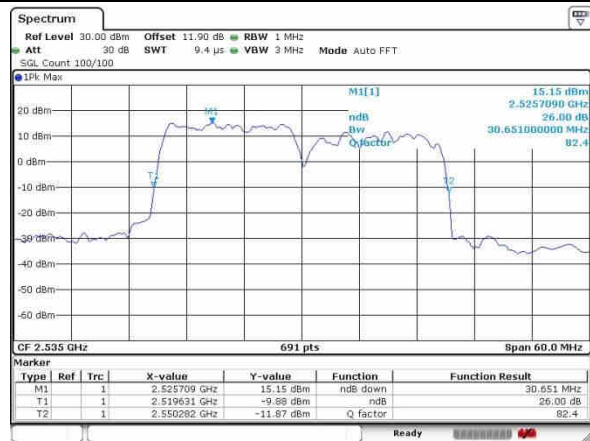
Date: 27 SEP 2017 15:19:34

Middle Channel / 10MHz+20MHz



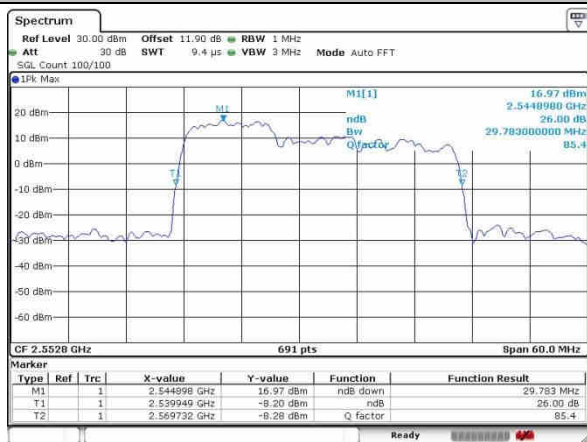
Date: 27 SEP 2017 13:43:18

Middle Channel / 15MHz+15MHz



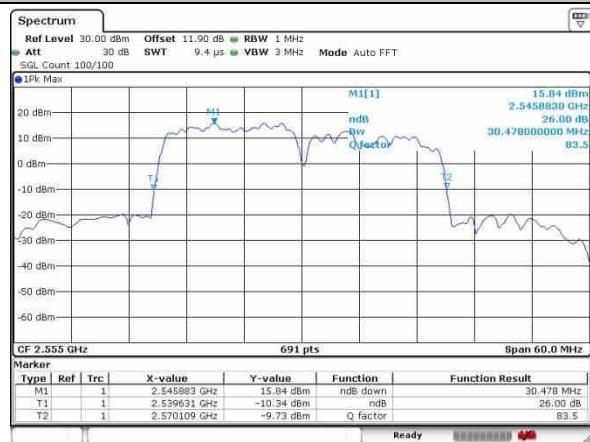
Date: 27 SEP 2017 16:01:17

Highest Channel / 10MHz+20MHz



Date: 27 SEP 2017 13:48:08

Highest Channel / 15MHz+15MHz



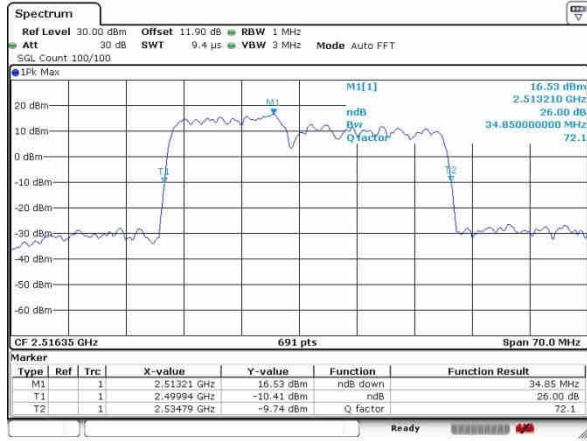
Date: 27 SEP 2017 16:05:44



LTE Band 7

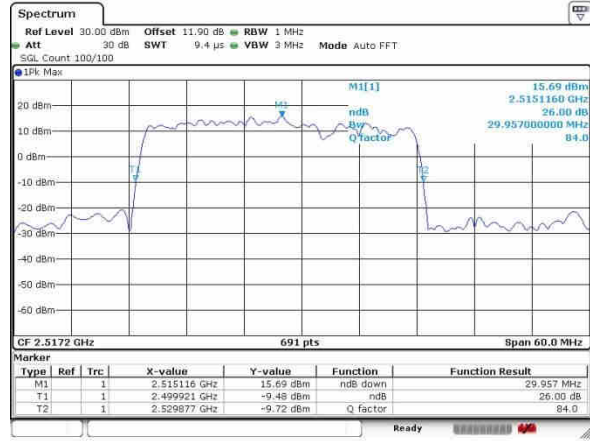
64QAM

Lowest Channel / 15MHz+20MHz



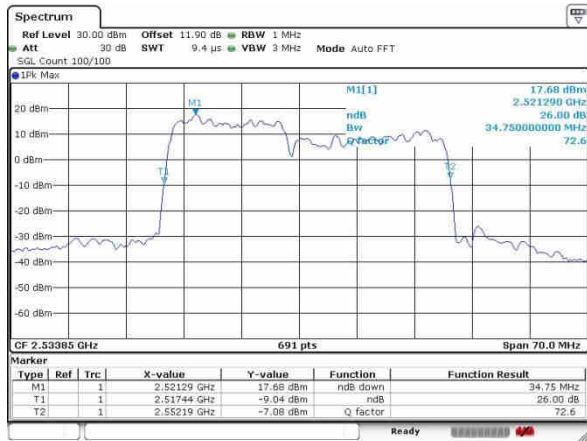
Date: 30 SEP 2017 12:06:43

Lowest Channel / 20MHz+10MHz



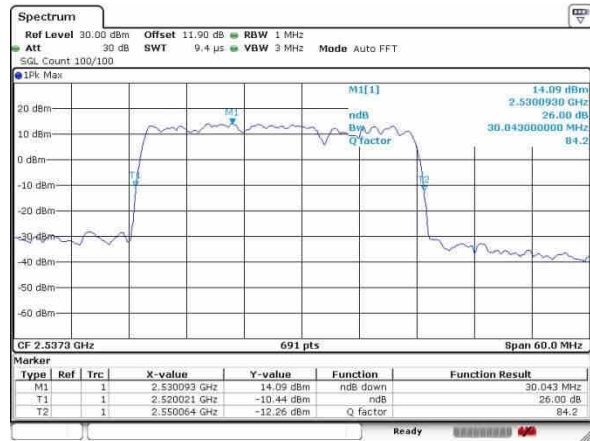
Date: 27 SEP 2017 13:59:37

Middle Channel / 15MHz+20MHz



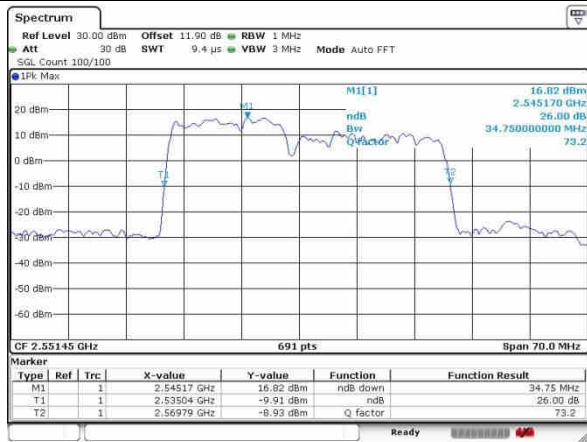
Date: 30 SEP 2017 12:08:20

Middle Channel / 20MHz+10MHz



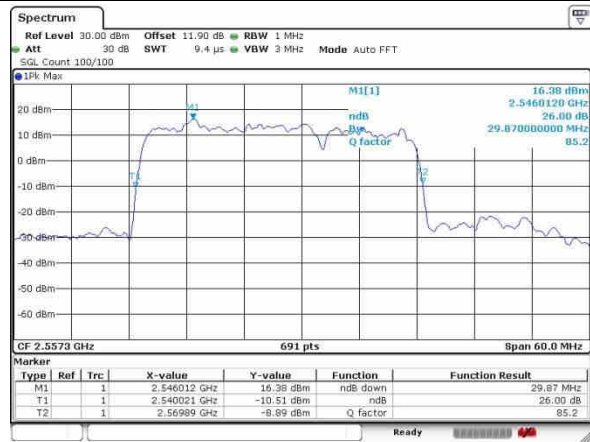
Date: 27 SEP 2017 15:01:23

Highest Channel / 15MHz+20MHz



Date: 30 SEP 2017 12:10:41

Highest Channel / 20MHz+10MHz



Date: 27 SEP 2017 15:08:52