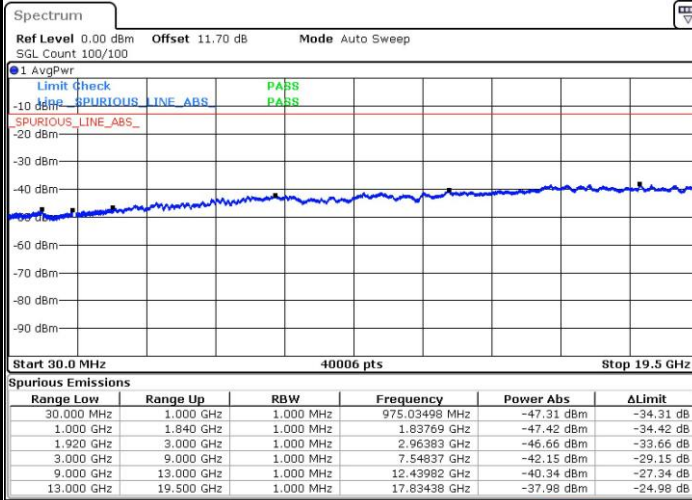




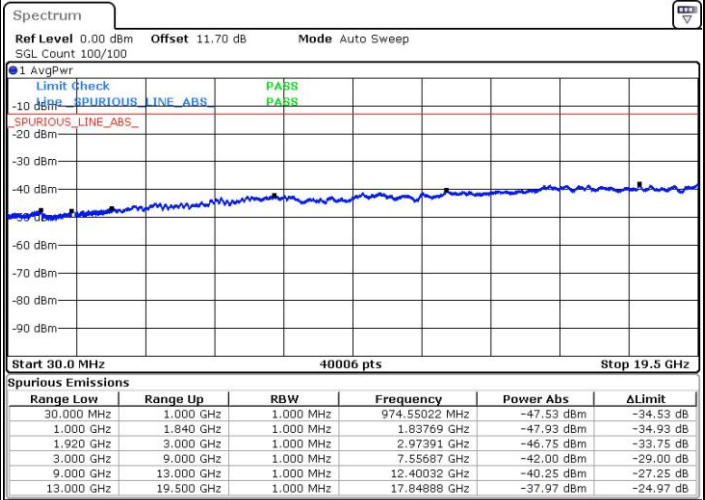
LTE Band 2 / 15MHz

Lowest Channel / QPSK



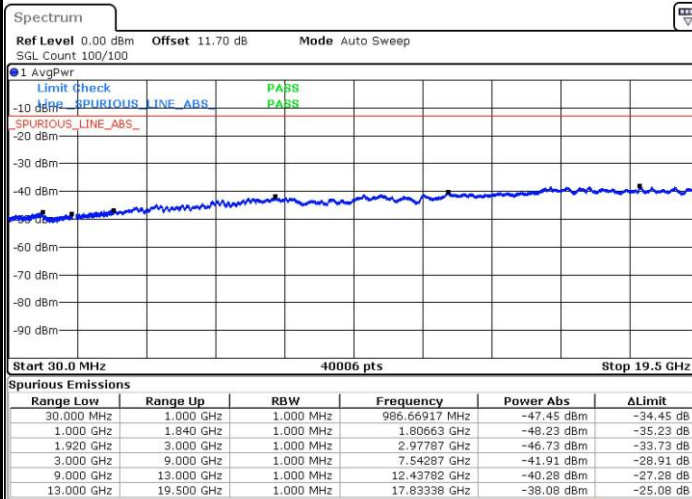
Date: 27 MAR 2019 07:46:56

Lowest Channel / 16QAM



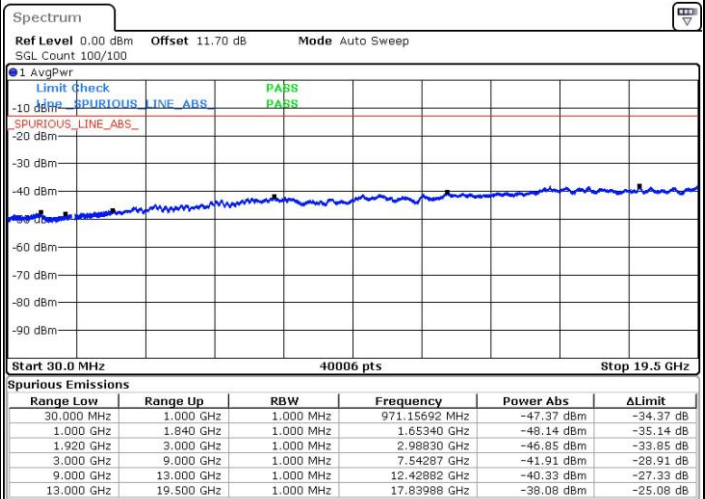
Date: 27 MAR 2019 07:47:58

Middle Channel / QPSK



Date: 27 MAR 2019 07:49:46

Middle Channel / 16QAM

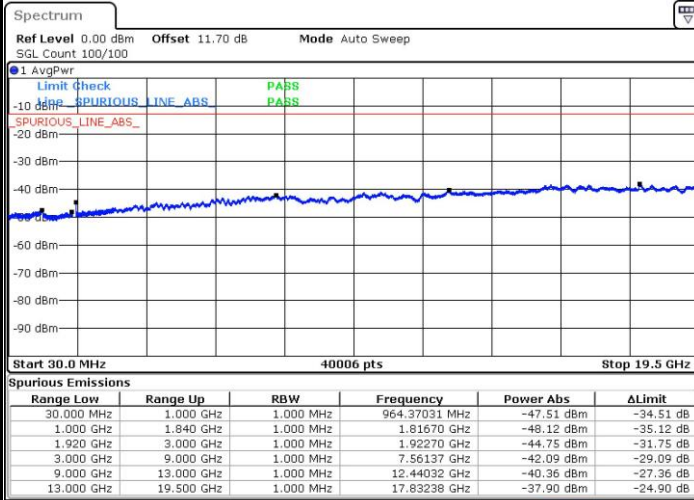


Date: 27 MAR 2019 07:50:47



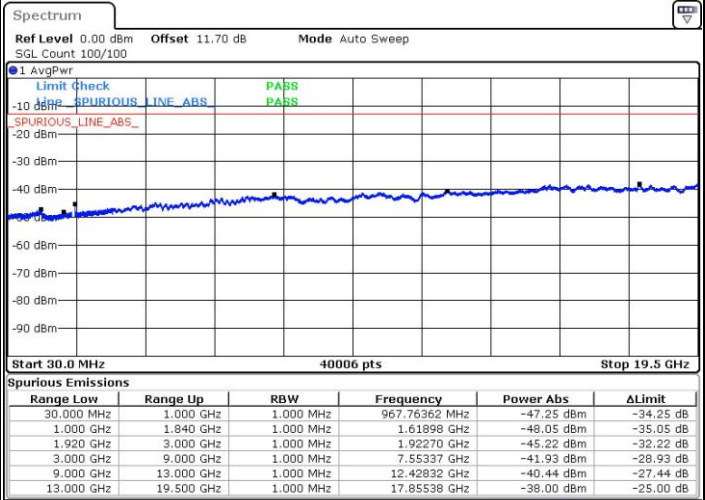
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 27 MAR 2019 07:58:22

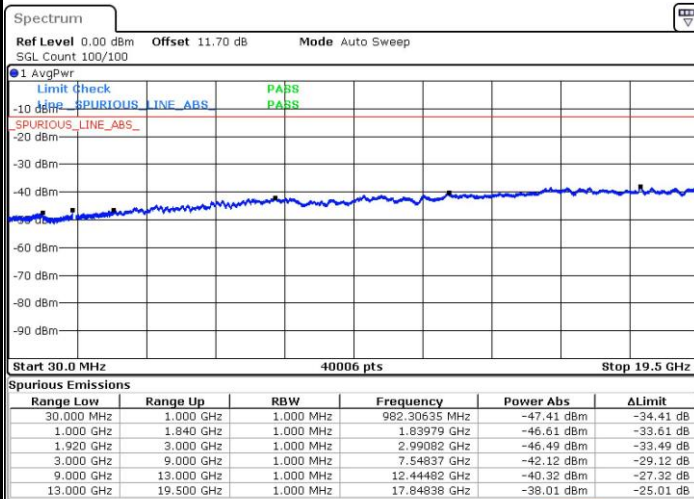
Highest Channel / 16QAM



Date: 27 MAR 2019 07:59:23

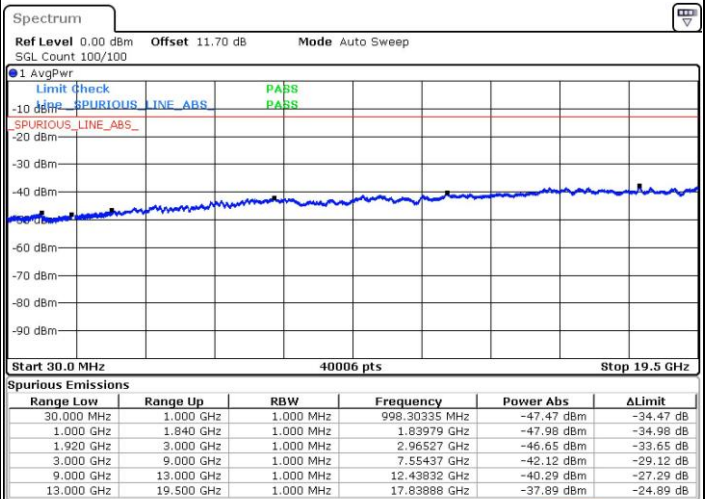
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 27 MAR 2019 08:05:21

Lowest Channel / 16QAM

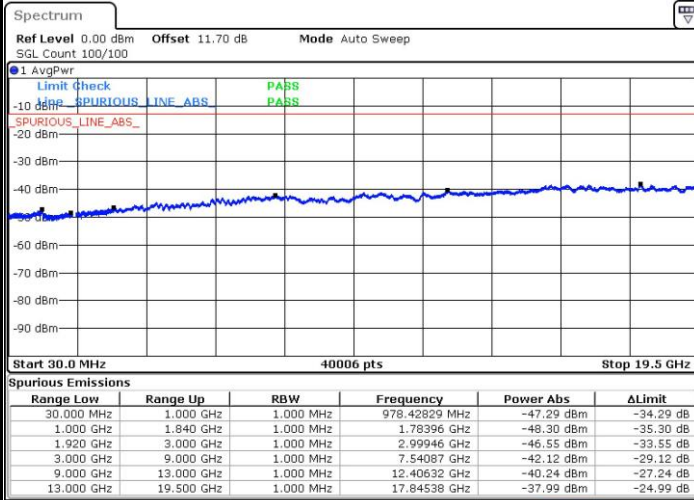


Date: 27 MAR 2019 08:06:22



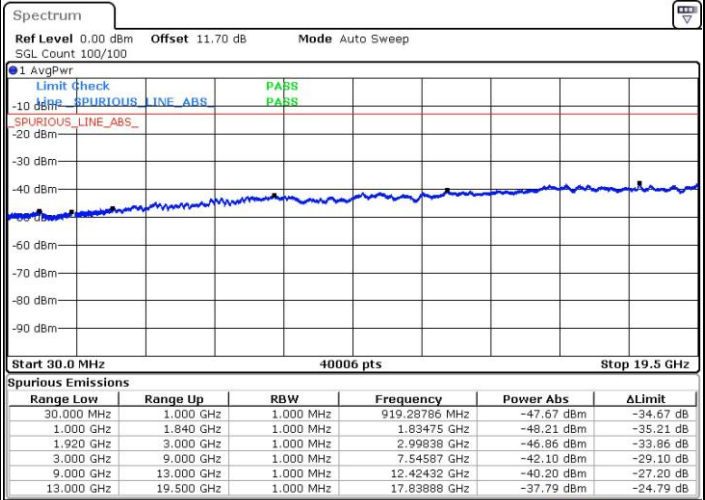
LTE Band 2 / 20MHz

Middle Channel / QPSK



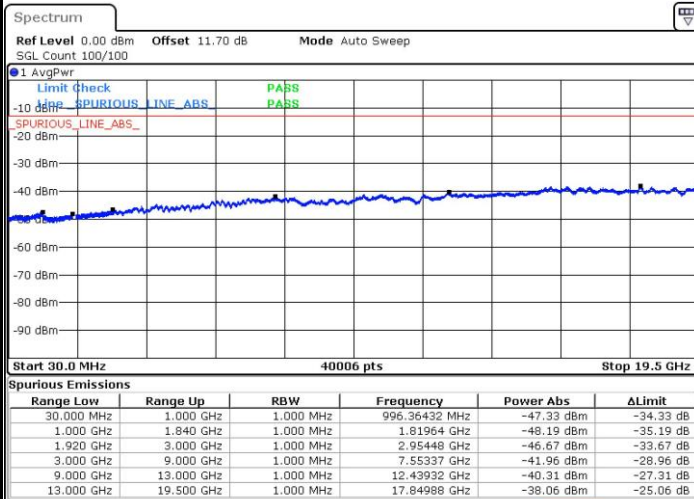
Date: 27 MAR 2019 08:08:11

Middle Channel / 16QAM



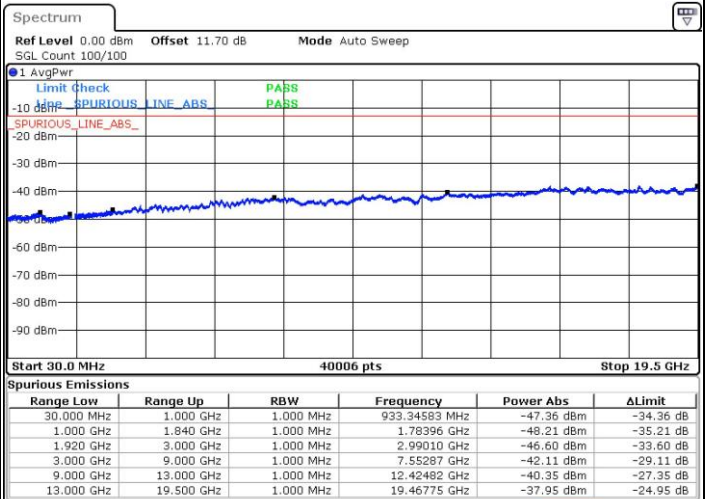
Date: 27 MAR 2019 08:09:12

Highest Channel / QPSK



Date: 27 MAR 2019 08:15:08

Highest Channel / 16QAM

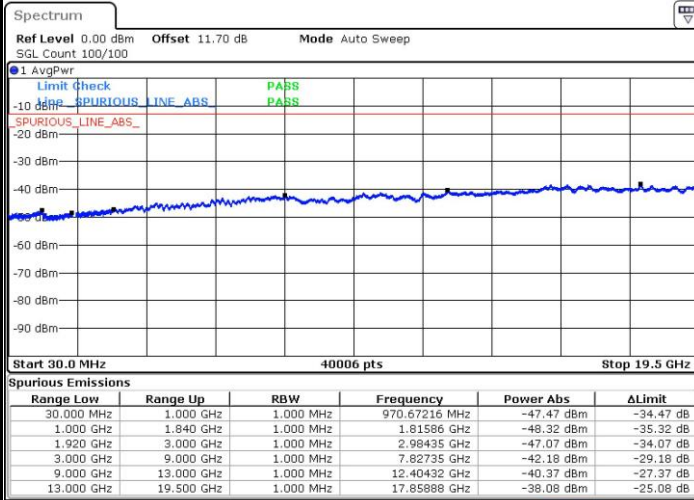


Date: 27 MAR 2019 08:16:10



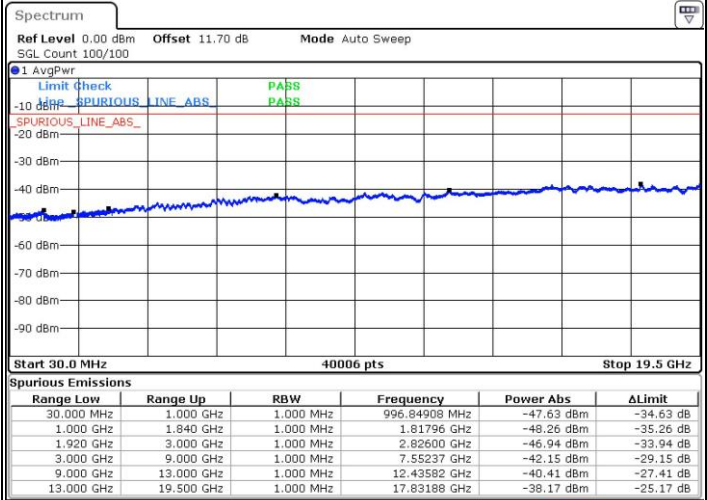
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM



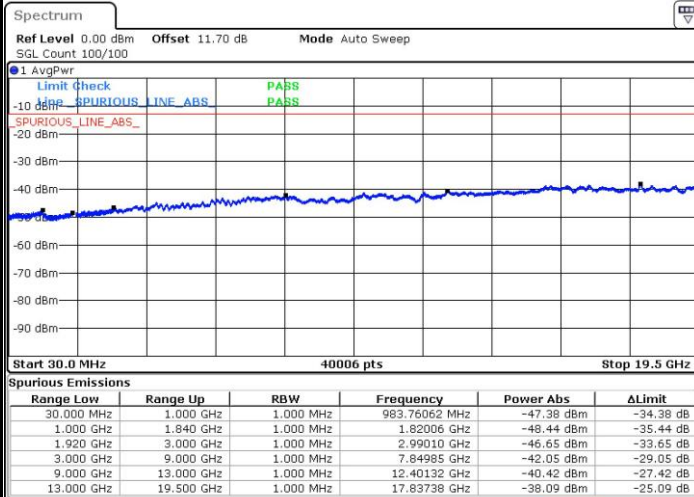
Date: 29 MAR 2019 06:18:22

Middle Channel / 64QAM



Date: 29 MAR 2019 06:19:45

Highest Channel / 64QAM

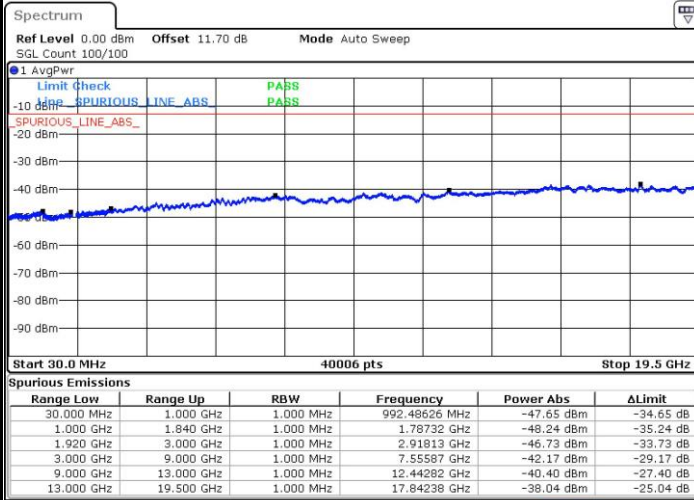


Date: 29 MAR 2019 06:23:15



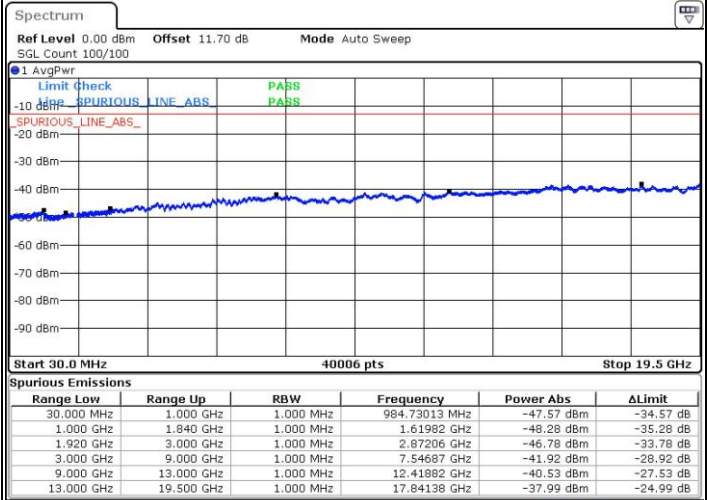
LTE Band 2 / 3MHz

Lowest Channel / 64QAM



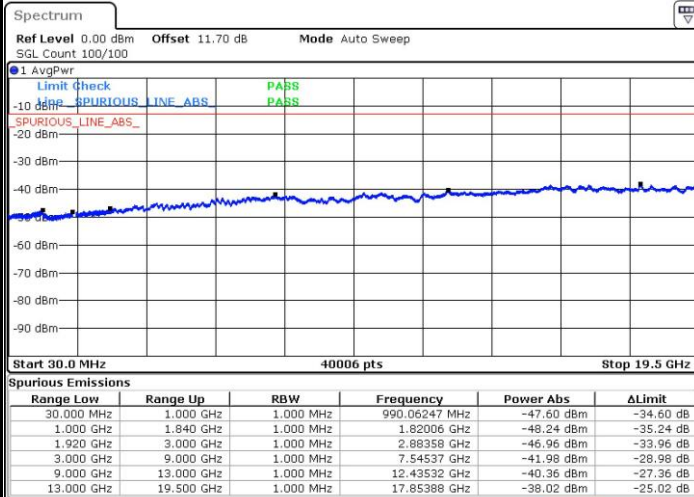
Date: 29 MAR 2019 05:37:26

Middle Channel / 64QAM



Date: 29 MAR 2019 05:38:49

Highest Channel / 64QAM

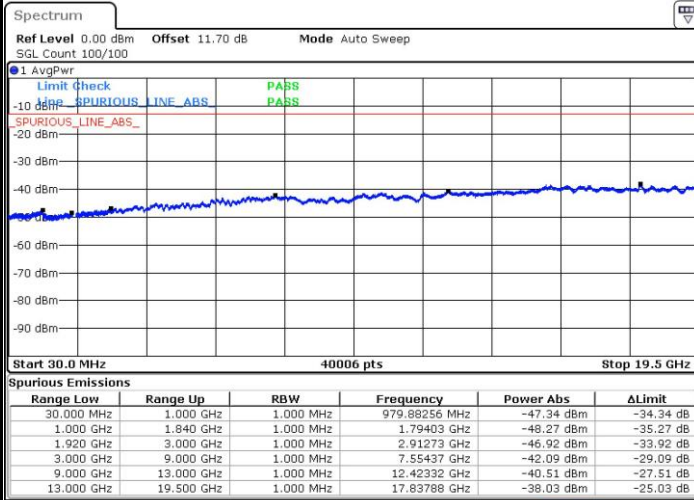


Date: 29 MAR 2019 05:42:13



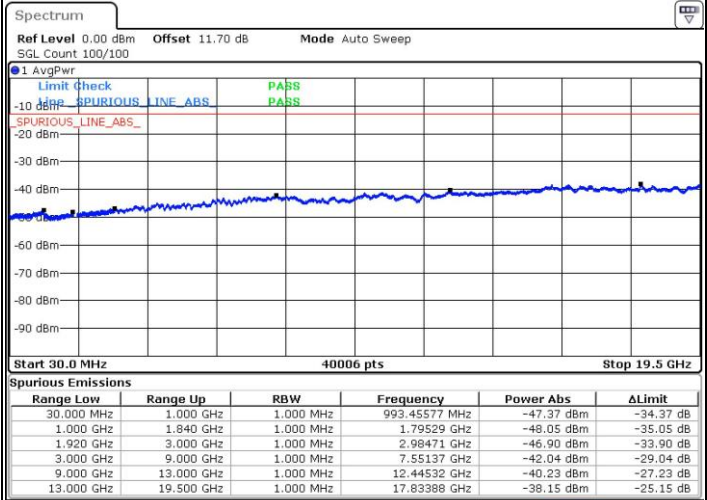
LTE Band 2 / 5MHz

Lowest Channel / 64QAM



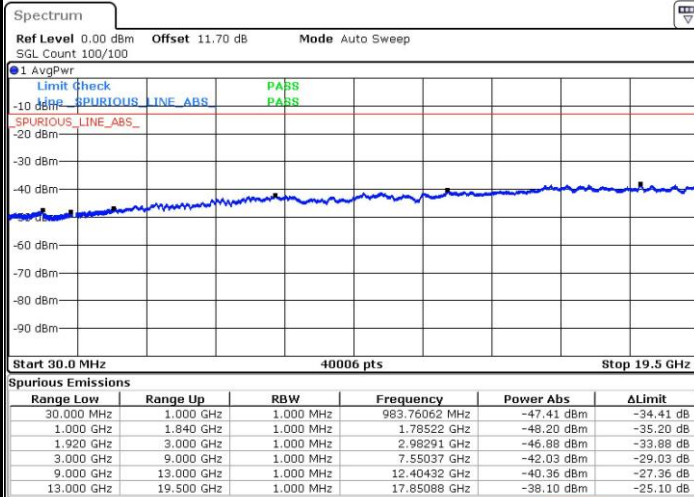
Date: 29 MAR 2019 05:45:36

Middle Channel / 64QAM



Date: 29 MAR 2019 05:46:59

Highest Channel / 64QAM

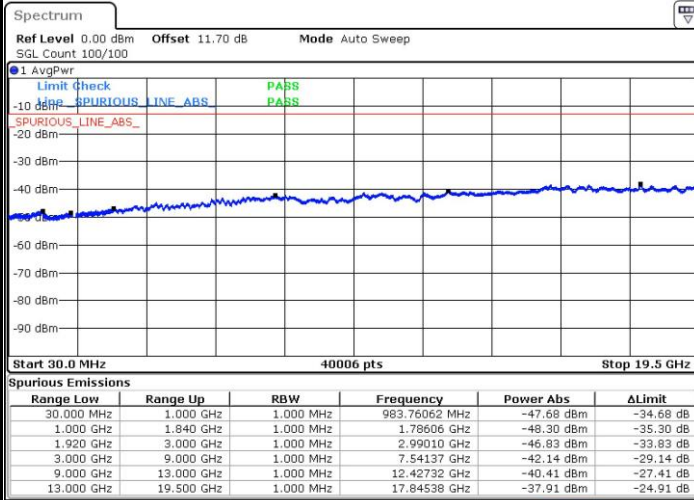


Date: 29 MAR 2019 05:50:22



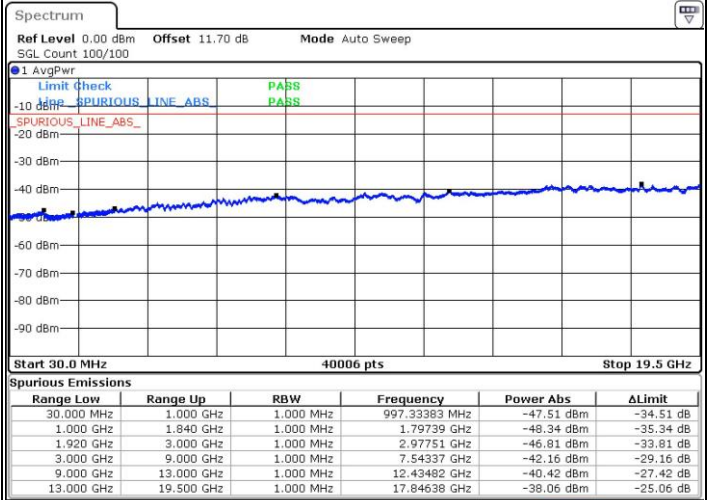
LTE Band 2 / 10MHz

Lowest Channel / 64QAM



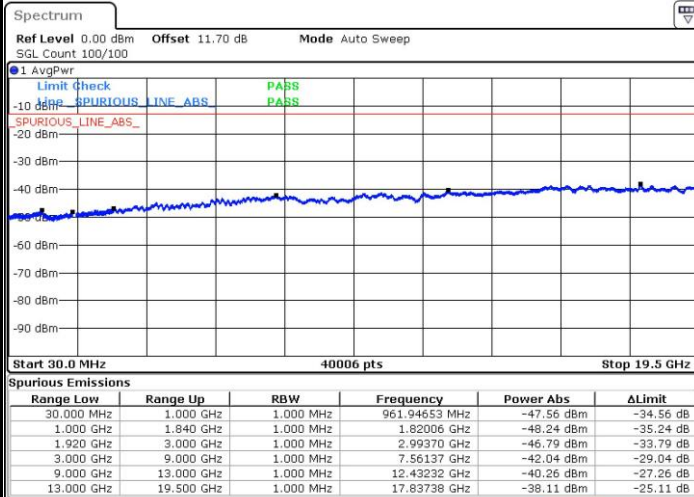
Date: 29 MAR 2019 05:53:46

Middle Channel / 64QAM



Date: 29 MAR 2019 05:55:09

Highest Channel / 64QAM

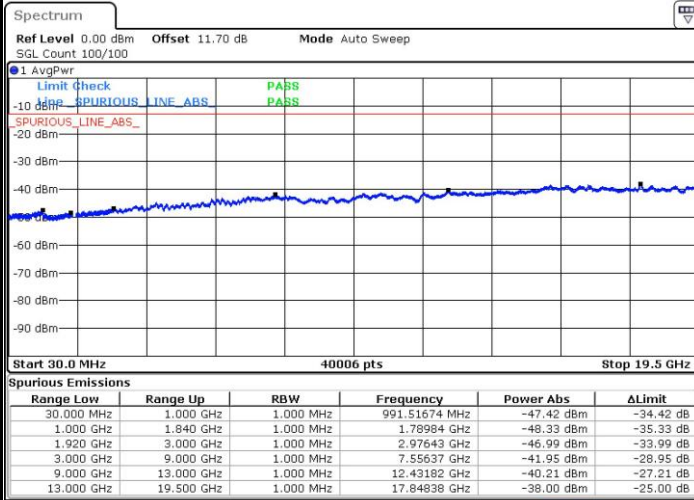


Date: 29 MAR 2019 05:58:32



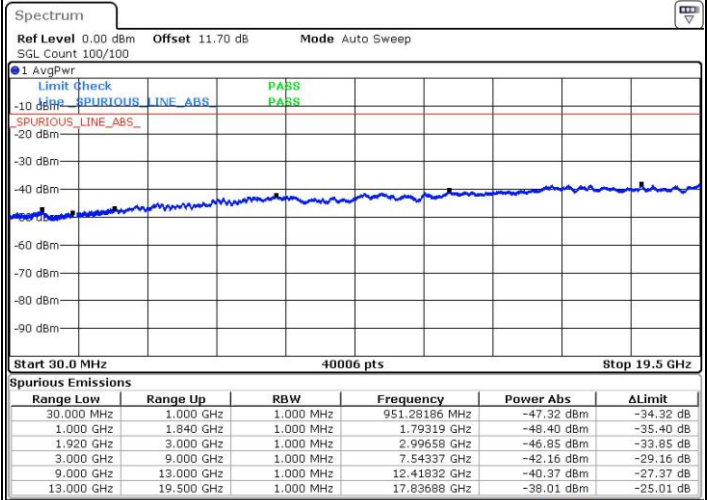
LTE Band 2 / 15MHz

Lowest Channel / 64QAM



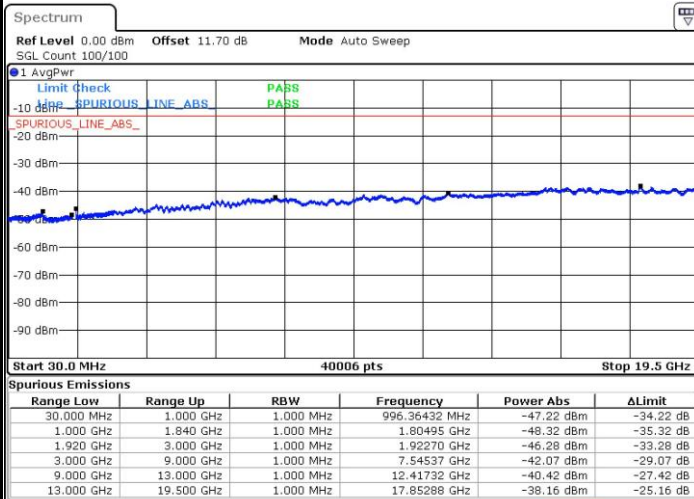
Date: 29 MAR 2019 06:01:56

Middle Channel / 64QAM



Date: 29 MAR 2019 06:03:19

Highest Channel / 64QAM

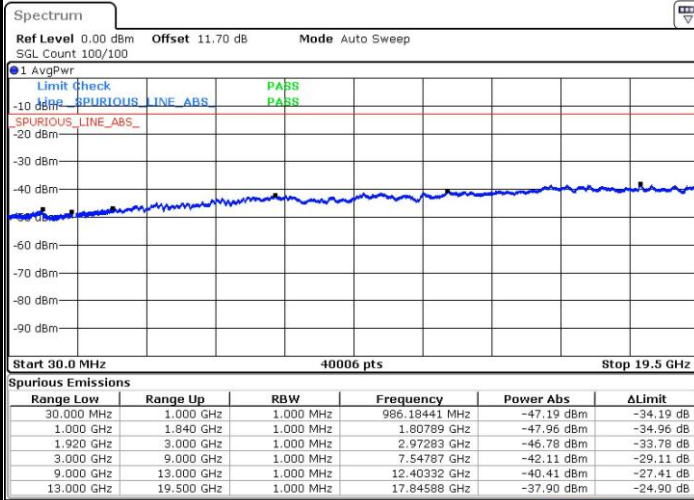


Date: 29 MAR 2019 06:06:43



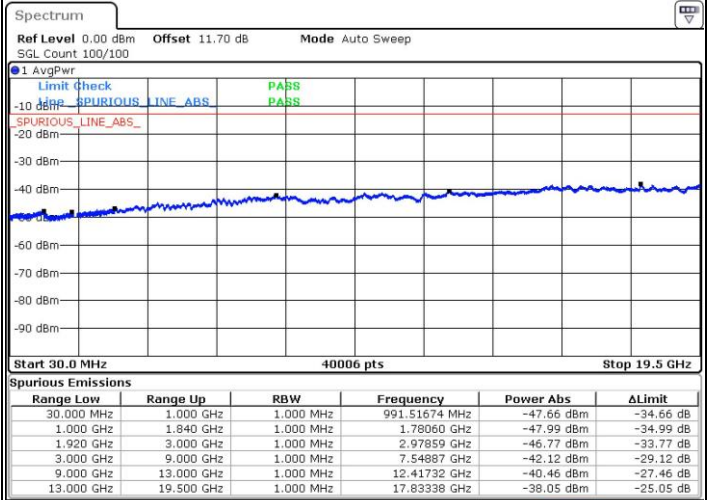
LTE Band 2 / 20MHz

Lowest Channel / 64QAM



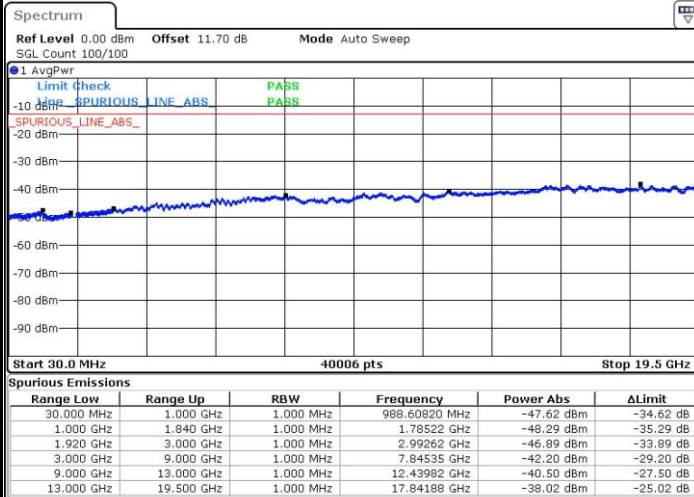
Date: 29 MAR 2019 06:10:06

Middle Channel / 64QAM



Date: 29 MAR 2019 06:11:29

Highest Channel / 64QAM



Date: 29 MAR 2019 06:14:53

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

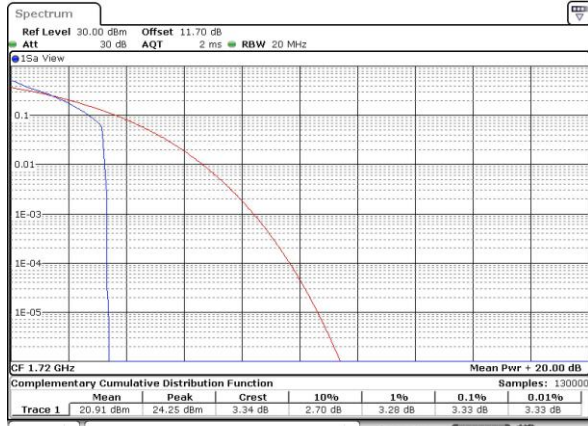
1. Normal Voltage =7.6 V. ; Battery End Point (BEP) =7.0 V. ; Maximum Voltage =8.7 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



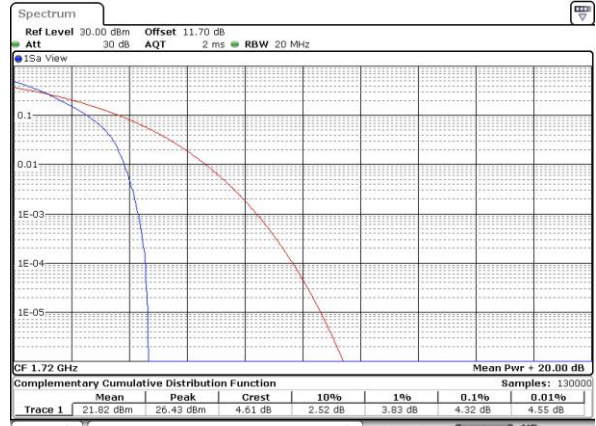
LTE Band 4

Peak-to-Average Ratio

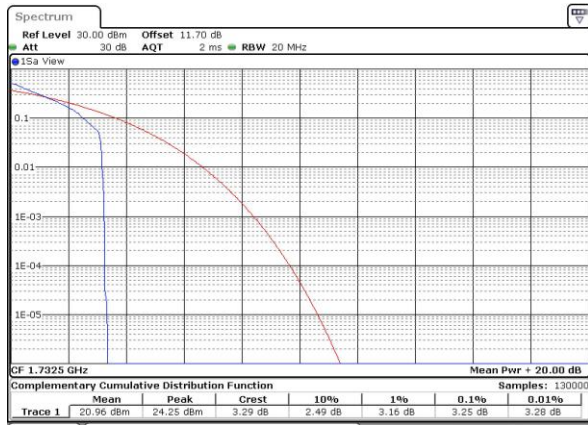
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.32	4.55	5.65	PASS
Middle CH	3.25	4.32	4.43	5.54	
Highest CH	3.36	4.49	4.41	5.77	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.59	6.38	-	-	PASS
Middle CH	5.83	6.35	-	-	
Highest CH	6.09	6.52	-	-	

LTE Band 4 / 20MHz / QPSK
Lowest Channel / 1RB


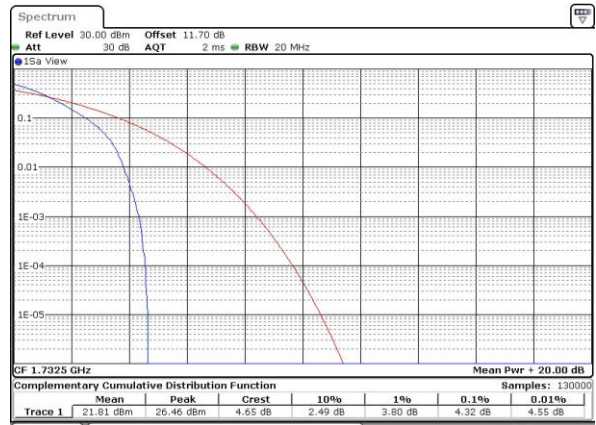
Date: 30 MAR 2019 08:06:37

Lowest Channel / Full RB


Date: 30 MAR 2019 08:06:48

Middle Channel / 1RB


Date: 30 MAR 2019 08:06:58

Middle Channel / Full RB


Date: 30 MAR 2019 08:07:09

Highest Channel / 1RB


Date: 30 MAR 2019 08:07:20

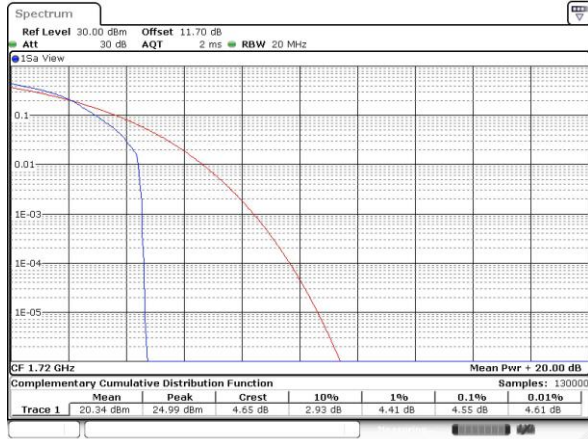
Highest Channel / Full RB


Date: 30 MAR 2019 08:07:31

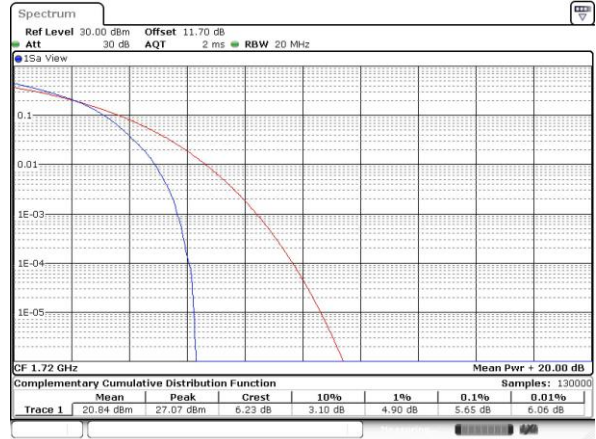


LTE Band 4 / 20MHz / 16QAM

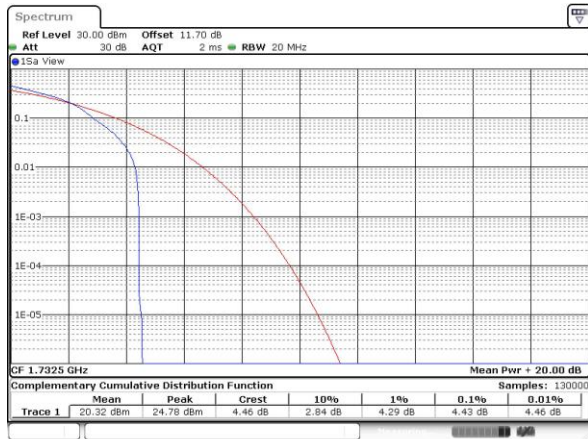
Lowest Channel / 1RB



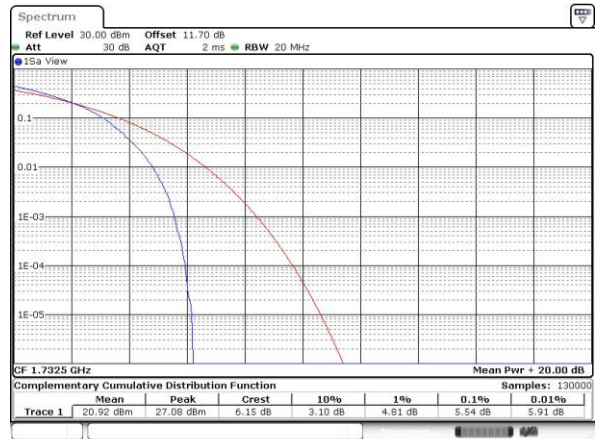
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB

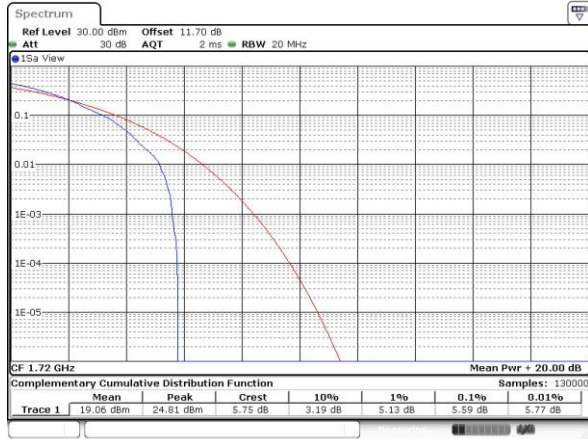


Highest Channel / 1RB

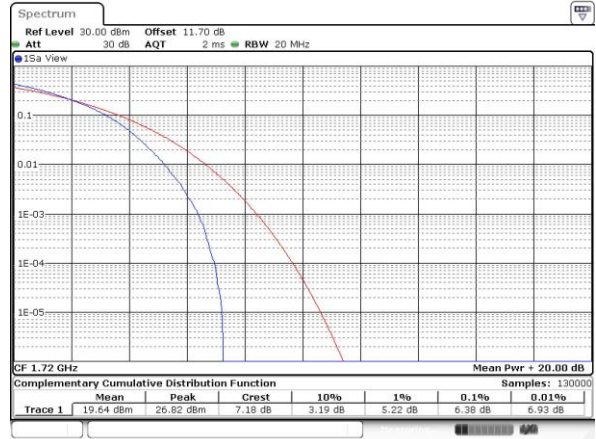


Highest Channel / Full RB



LTE Band 4 / 20MHz / 64QAM
Lowest Channel / 1RB


Date: 2 APR 2019 02:13:06

Lowest Channel / Full RB


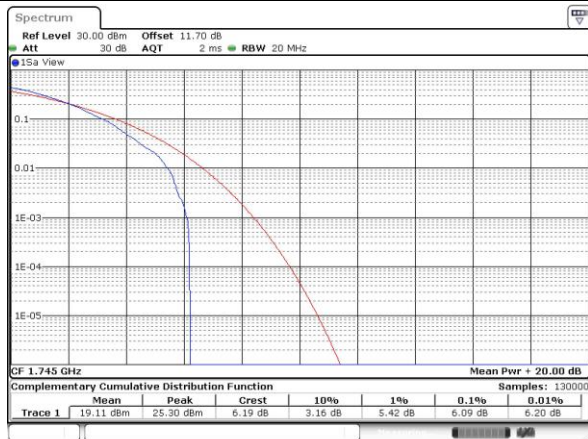
Date: 2 APR 2019 02:13:17

Middle Channel / 1RB


Date: 2 APR 2019 02:13:29

Middle Channel / Full RB


Date: 2 APR 2019 02:13:36

Highest Channel / 1RB


Date: 2 APR 2019 02:13:50

Highest Channel / Full RB


Date: 2 APR 2019 02:14:01

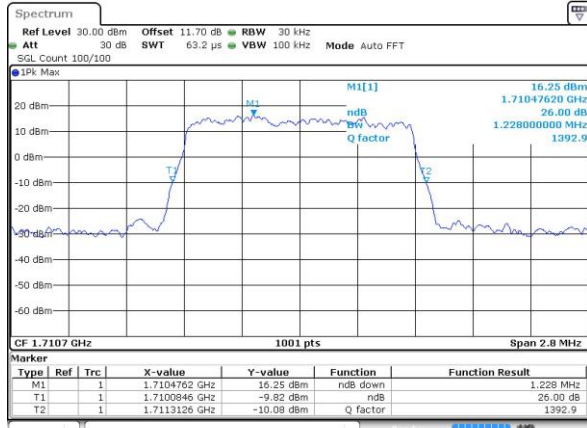
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.21	2.98	2.97	4.97	4.89	9.87	9.81	14.63	14.42	18.86	18.94
Middle CH	1.23	1.22	3.06	3.02	4.91	4.88	9.79	9.77	14.39	14.39	18.86	18.82
Highest CH	1.22	1.23	3.01	2.98	4.86	4.87	9.81	9.71	14.30	14.45	19.14	19.34
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.21	-	2.98	-	4.89	-	9.81	-	14.78	-	19.02	-
Middle CH	1.23	-	3.02	-	4.91	-	9.71	-	14.81	-	18.78	-
Highest CH	1.25	-	3.04	-	4.83	-	9.81	-	14.78	-	19.02	-



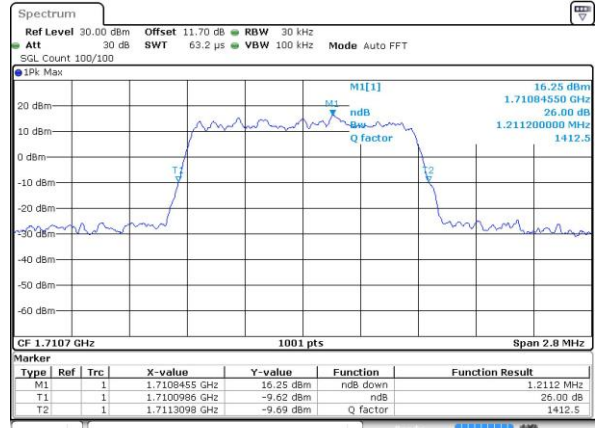
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



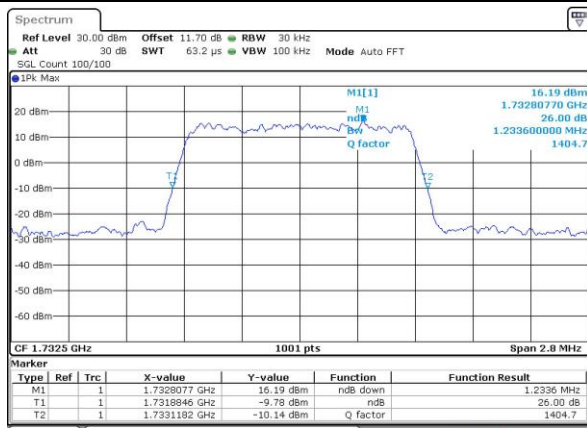
Date: 30 MAR 2019 07:48:29

Lowest Channel / 1.4MHz / 16QAM



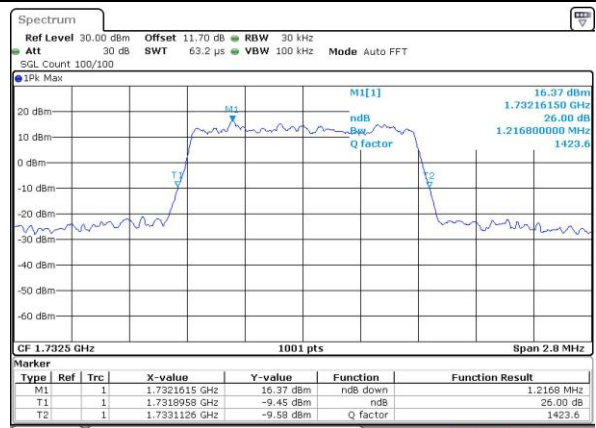
Date: 30 MAR 2019 07:48:41

Middle Channel / 1.4MHz / QPSK



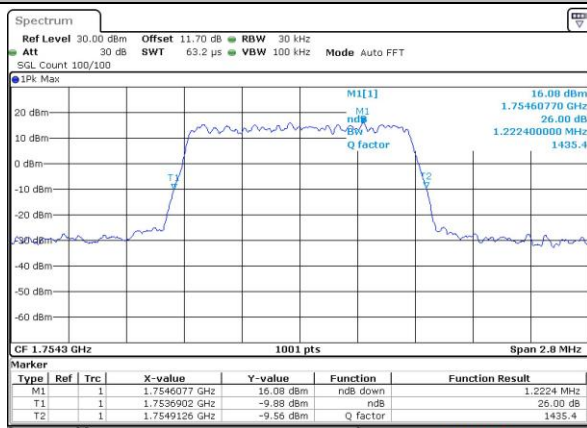
Date: 30 MAR 2019 07:55:38

Middle Channel / 1.4MHz / 16QAM



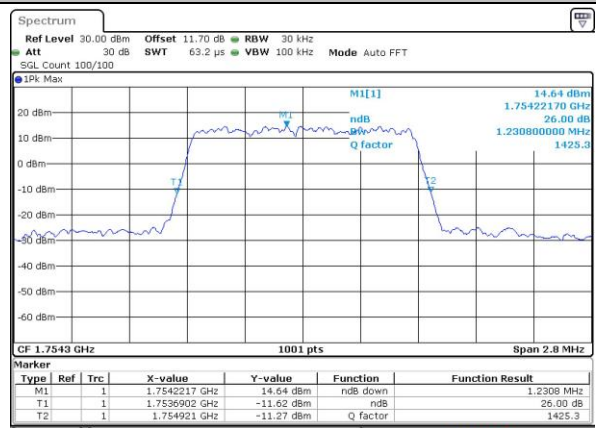
Date: 30 MAR 2019 07:55:50

Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2019 07:58:29

Highest Channel / 1.4MHz / 16QAM

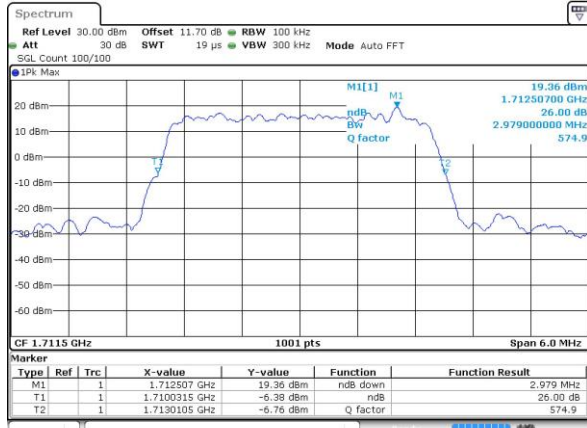


Date: 30 MAR 2019 07:58:41



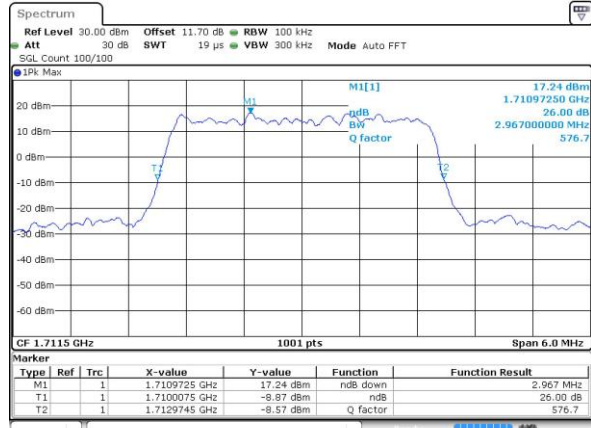
LTE Band 4

Lowest Channel / 3MHz / QPSK



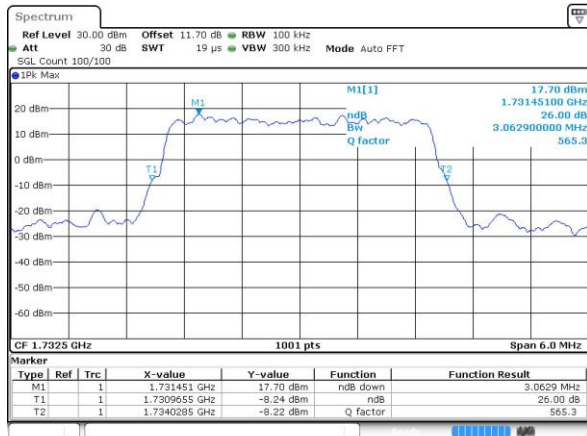
Date: 30 MAR 2019 06:19:30

Lowest Channel / 3MHz / 16QAM



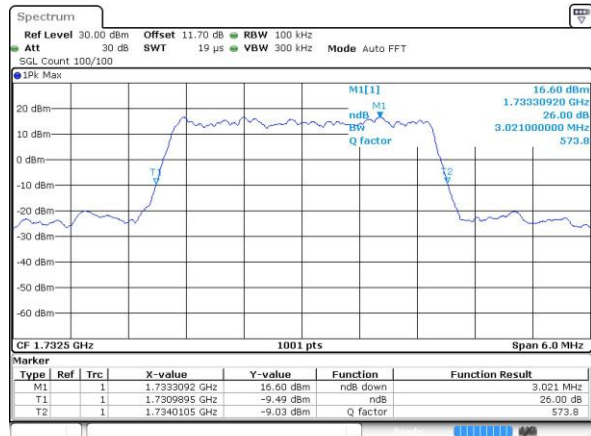
Date: 30 MAR 2019 06:19:43

Middle Channel / 3MHz / QPSK



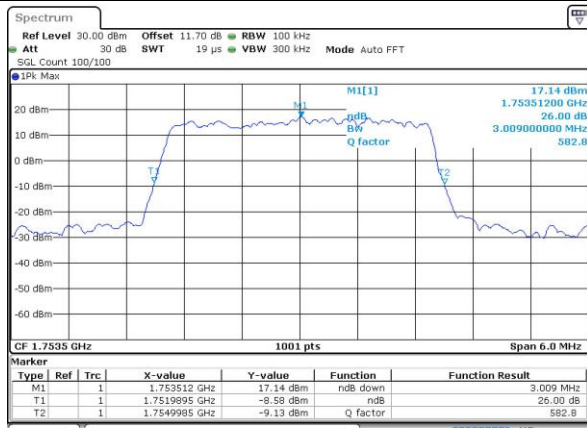
Date: 30 MAR 2019 06:26:25

Middle Channel / 3MHz / 16QAM



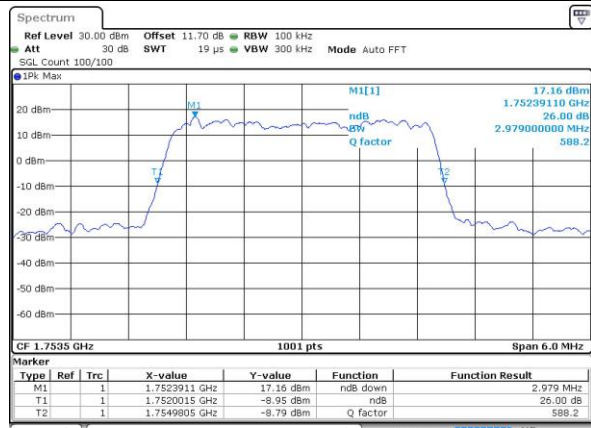
Date: 30 MAR 2019 06:26:37

Highest Channel / 3MHz / QPSK



Date: 30 MAR 2019 06:29:15

Highest Channel / 3MHz / 16QAM

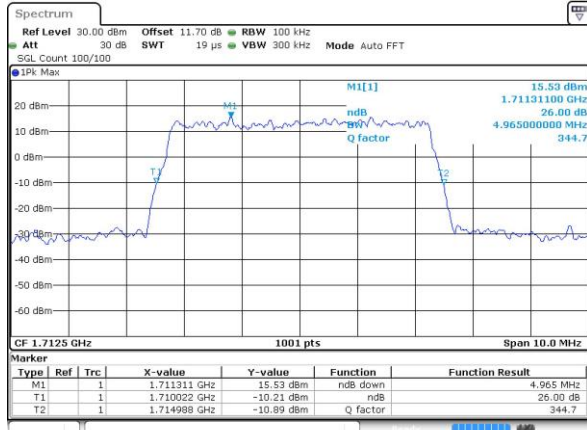


Date: 30 MAR 2019 06:29:28



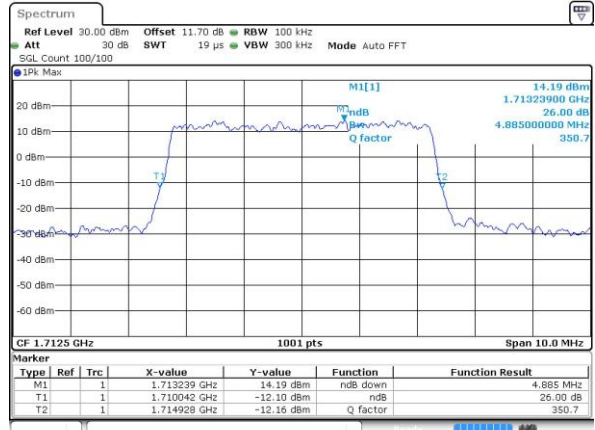
LTE Band 4

Lowest Channel / 5MHz / QPSK



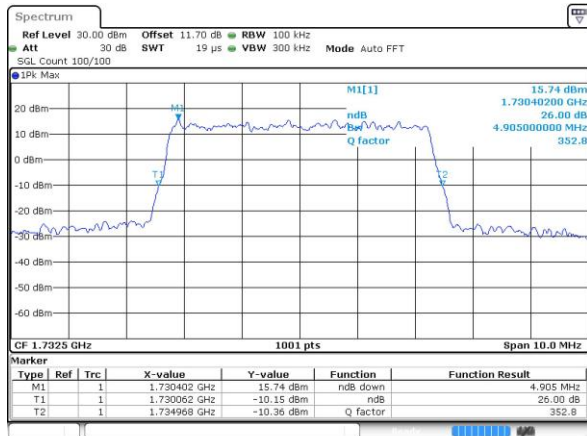
Date: 30 MAR 2019 06:36:14

Lowest Channel / 5MHz / 16QAM



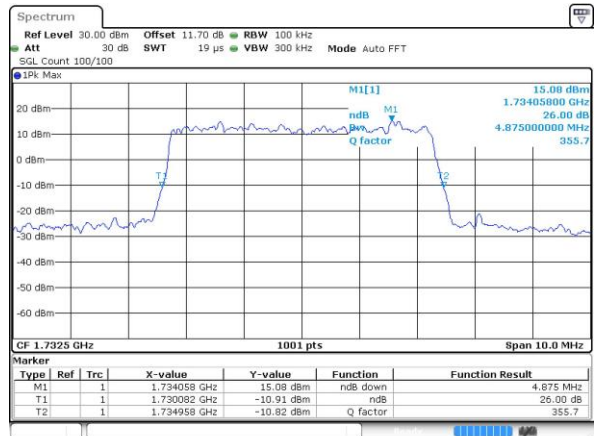
Date: 30 MAR 2019 06:36:26

Middle Channel / 5MHz / QPSK



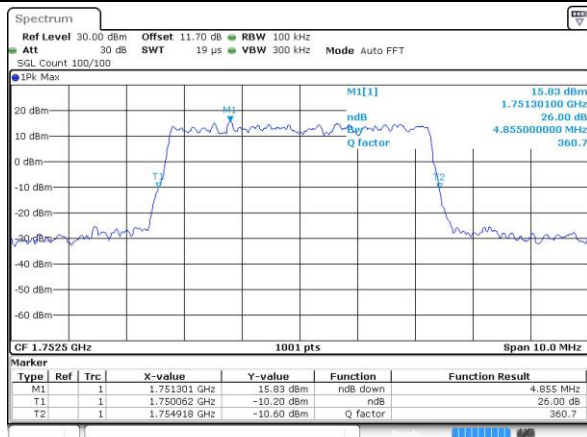
Date: 30 MAR 2019 06:43:10

Middle Channel / 5MHz / 16QAM



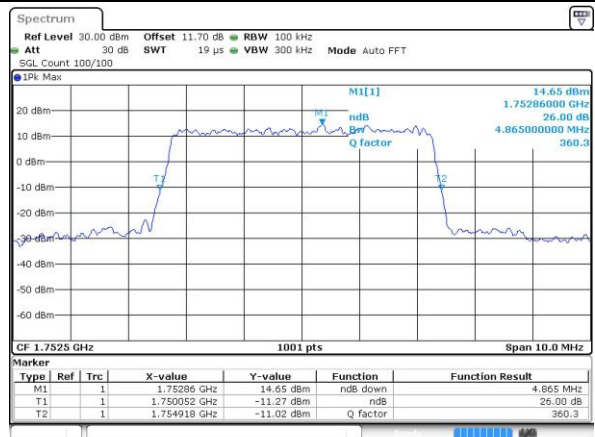
Date: 30 MAR 2019 06:43:22

Highest Channel / 5MHz / QPSK

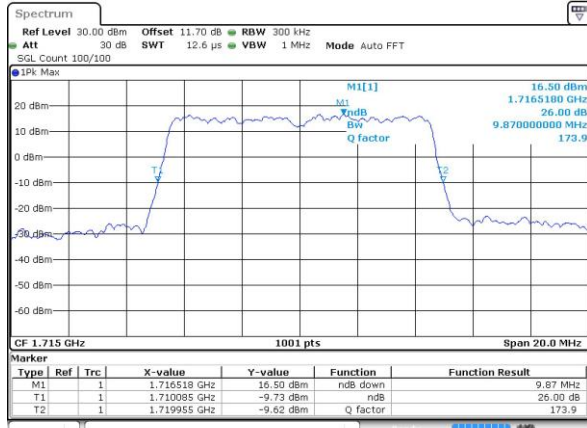


Date: 30 MAR 2019 06:46:01

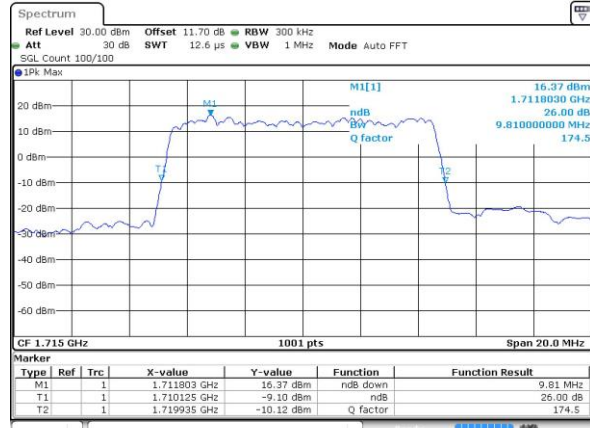
Highest Channel / 5MHz / 16QAM



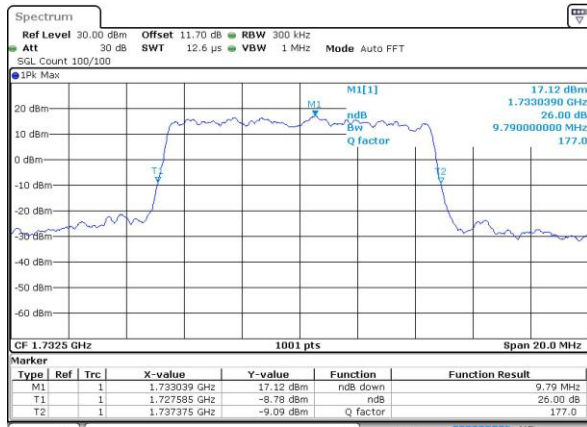
Date: 30 MAR 2019 06:46:13

LTE Band 4
Lowest Channel / 10MHz / QPSK


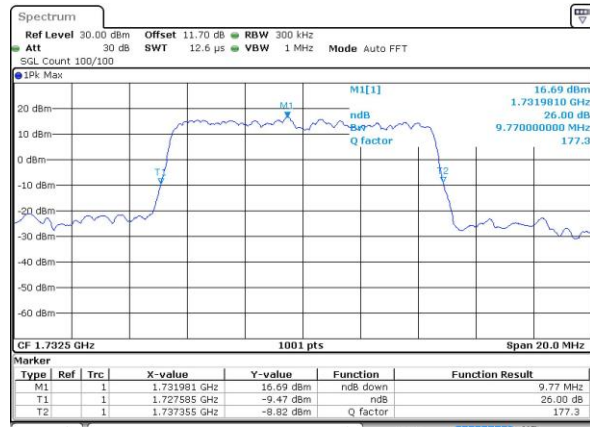
Date: 30 MAR 2019 06:52:59

Lowest Channel / 10MHz / 16QAM


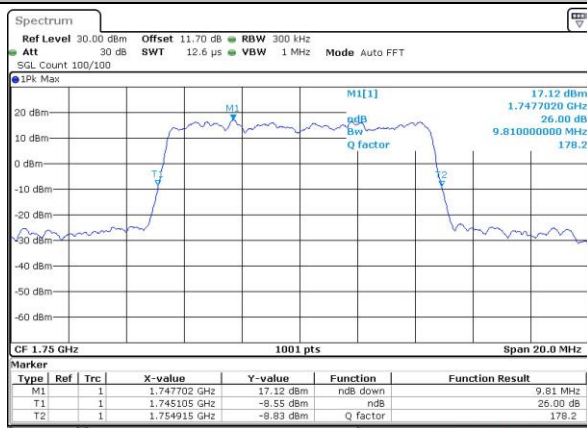
Date: 30 MAR 2019 06:53:11

Middle Channel / 10MHz / QPSK


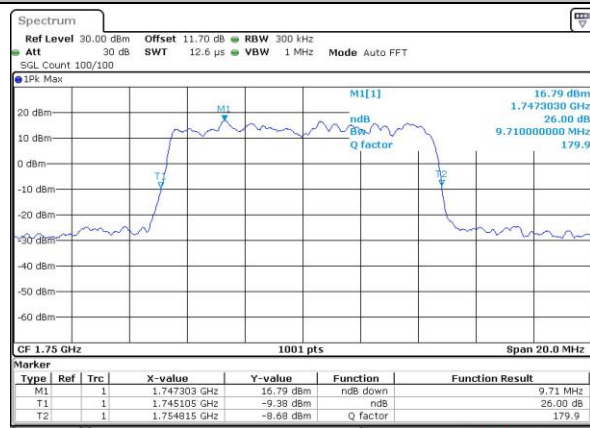
Date: 30 MAR 2019 06:59:54

Middle Channel / 10MHz / 16QAM


Date: 30 MAR 2019 07:00:06

Highest Channel / 10MHz / QPSK


Date: 30 MAR 2019 07:02:45

Highest Channel / 10MHz / 16QAM


Date: 30 MAR 2019 07:02:58