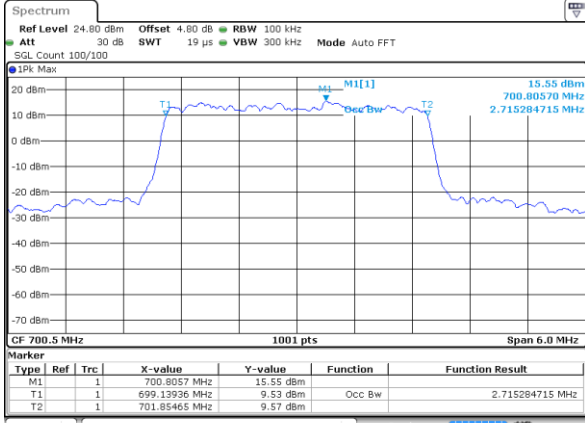




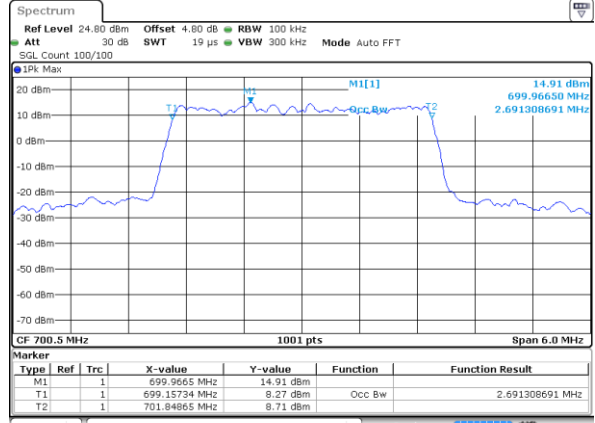
LTE Band 12

Lowest Channel / 3MHz / QPSK



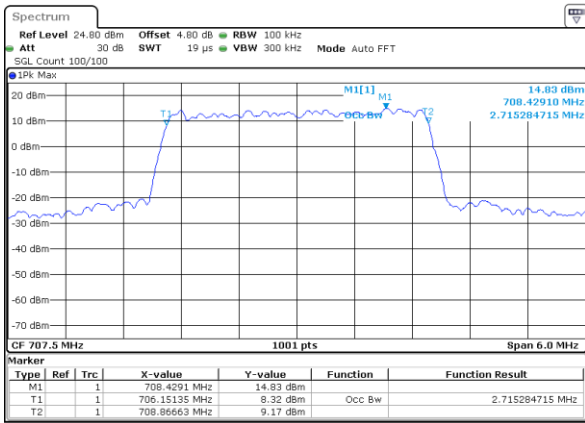
Date: 28 JAN 2020 04:10:45

Lowest Channel / 3MHz / 16QAM



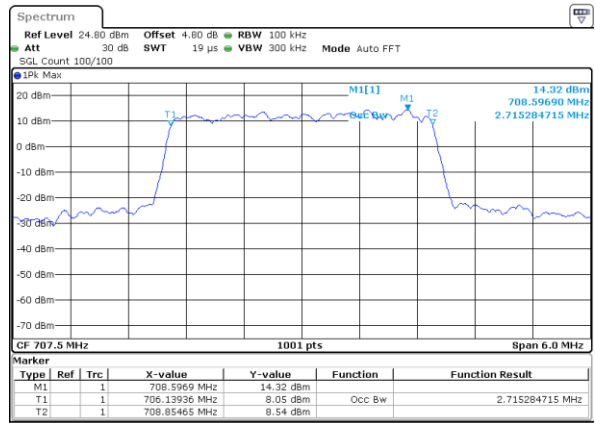
Date: 28 JAN 2020 04:10:55

Middle Channel / 3MHz / QPSK



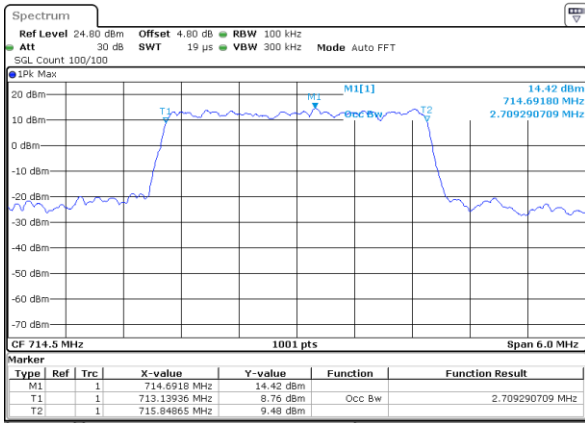
Date: 28 JAN 2020 04:11:15

Middle Channel / 3MHz / 16QAM



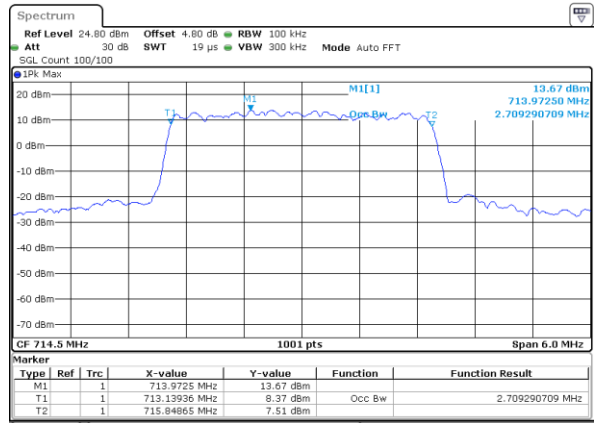
Date: 28 JAN 2020 04:11:05

Highest Channel / 3MHz / QPSK



Date: 28 JAN 2020 04:11:25

Highest Channel / 3MHz / 16QAM

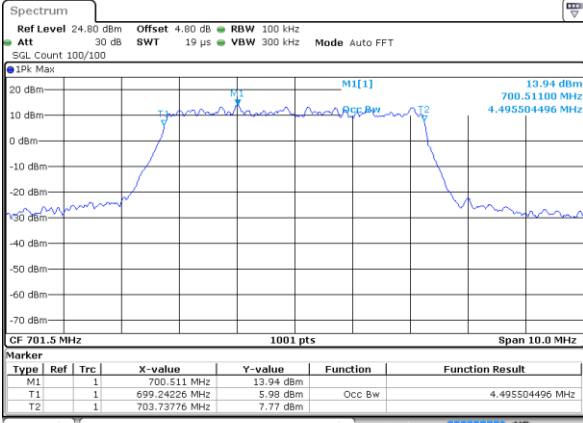


Date: 28 JAN 2020 04:11:35



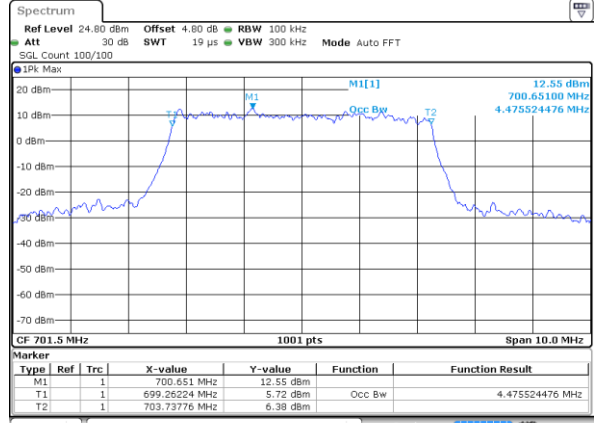
LTE Band 12

Lowest Channel / 5MHz / QPSK



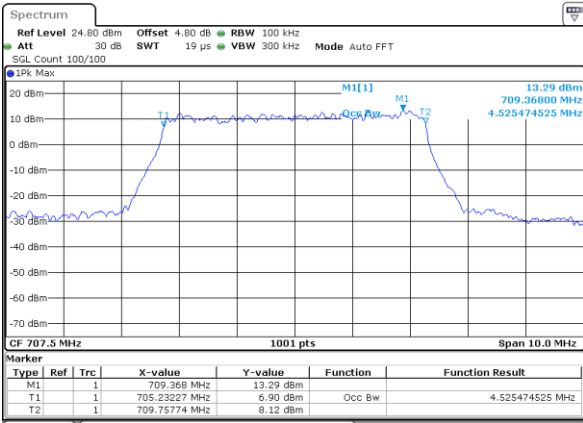
Date: 28 JAN 2020 04:27:10

Lowest Channel / 5MHz / 16QAM



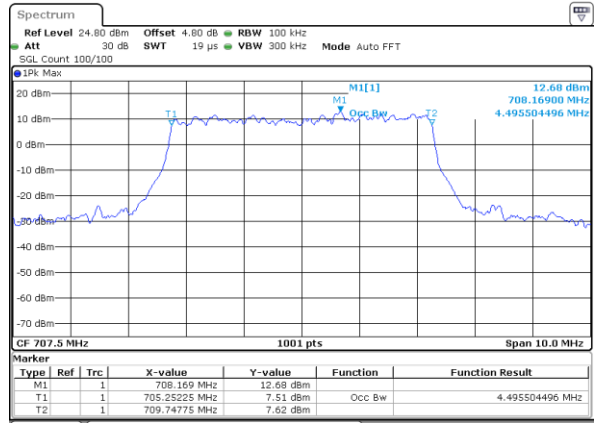
Date: 28 JAN 2020 04:27:20

Middle Channel / 5MHz / QPSK



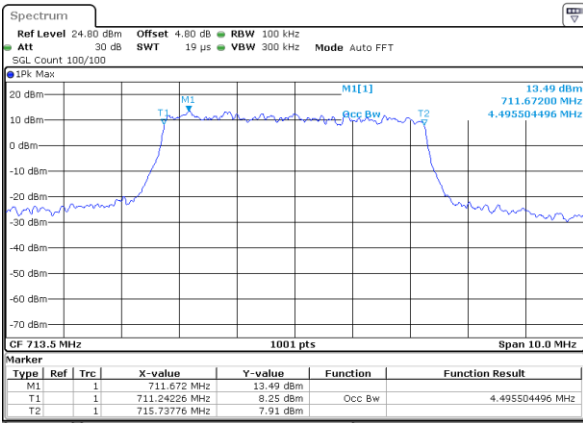
Date: 28 JAN 2020 04:27:40

Middle Channel / 5MHz / 16QAM



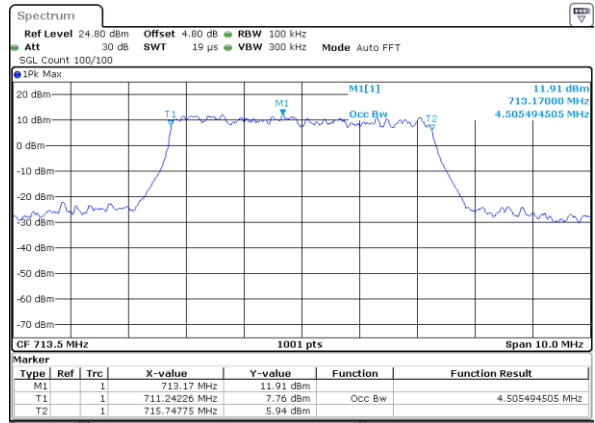
Date: 28 JAN 2020 04:27:30

Highest Channel / 5MHz / QPSK



Date: 28 JAN 2020 04:27:50

Highest Channel / 5MHz / 16QAM

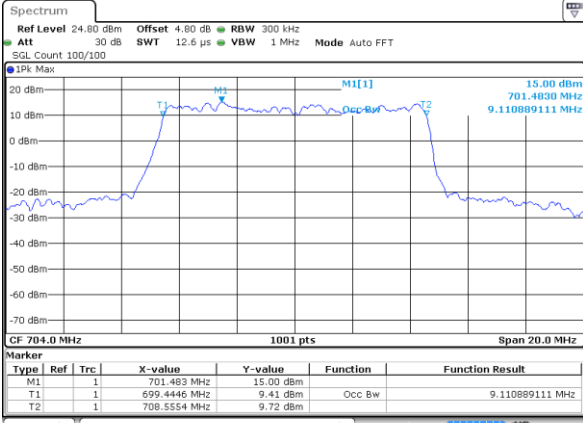


Date: 28 JAN 2020 04:28:00



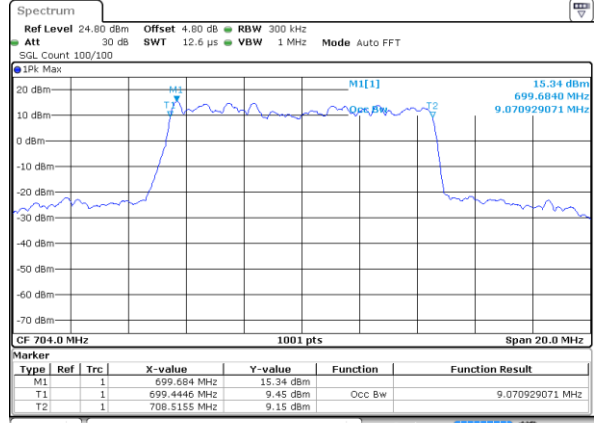
LTE Band 12

Lowest Channel / 10MHz / QPSK



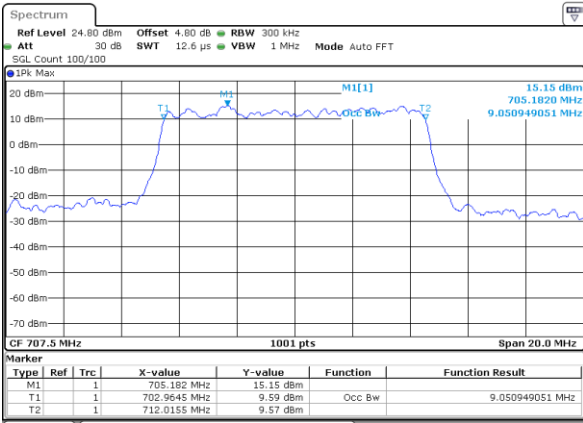
Date: 28 JAN 2020 04:43:35

Lowest Channel / 10MHz / 16QAM



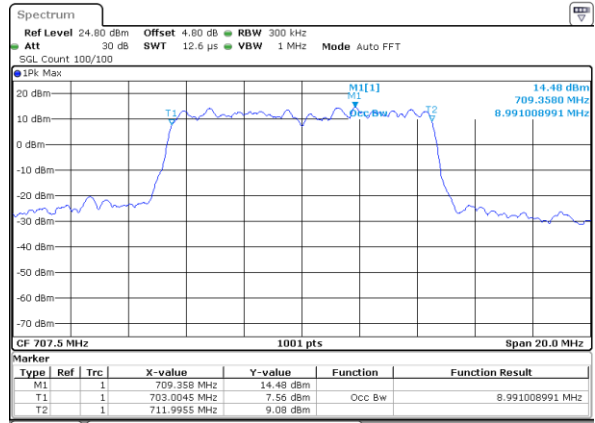
Date: 28 JAN 2020 04:43:45

Middle Channel / 10MHz / QPSK



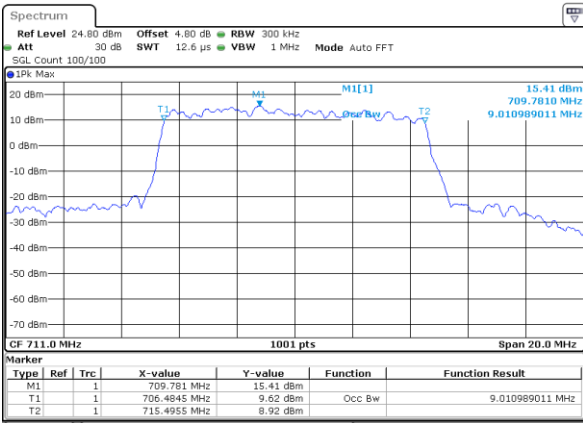
Date: 28 JAN 2020 04:44:05

Middle Channel / 10MHz / 16QAM



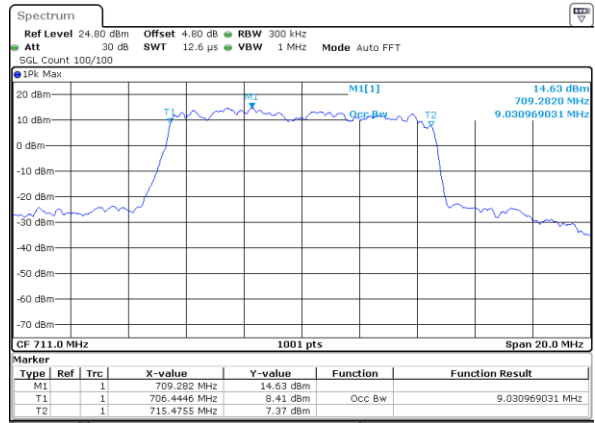
Date: 28 JAN 2020 04:43:55

Highest Channel / 10MHz / QPSK



Date: 28 JAN 2020 04:44:15

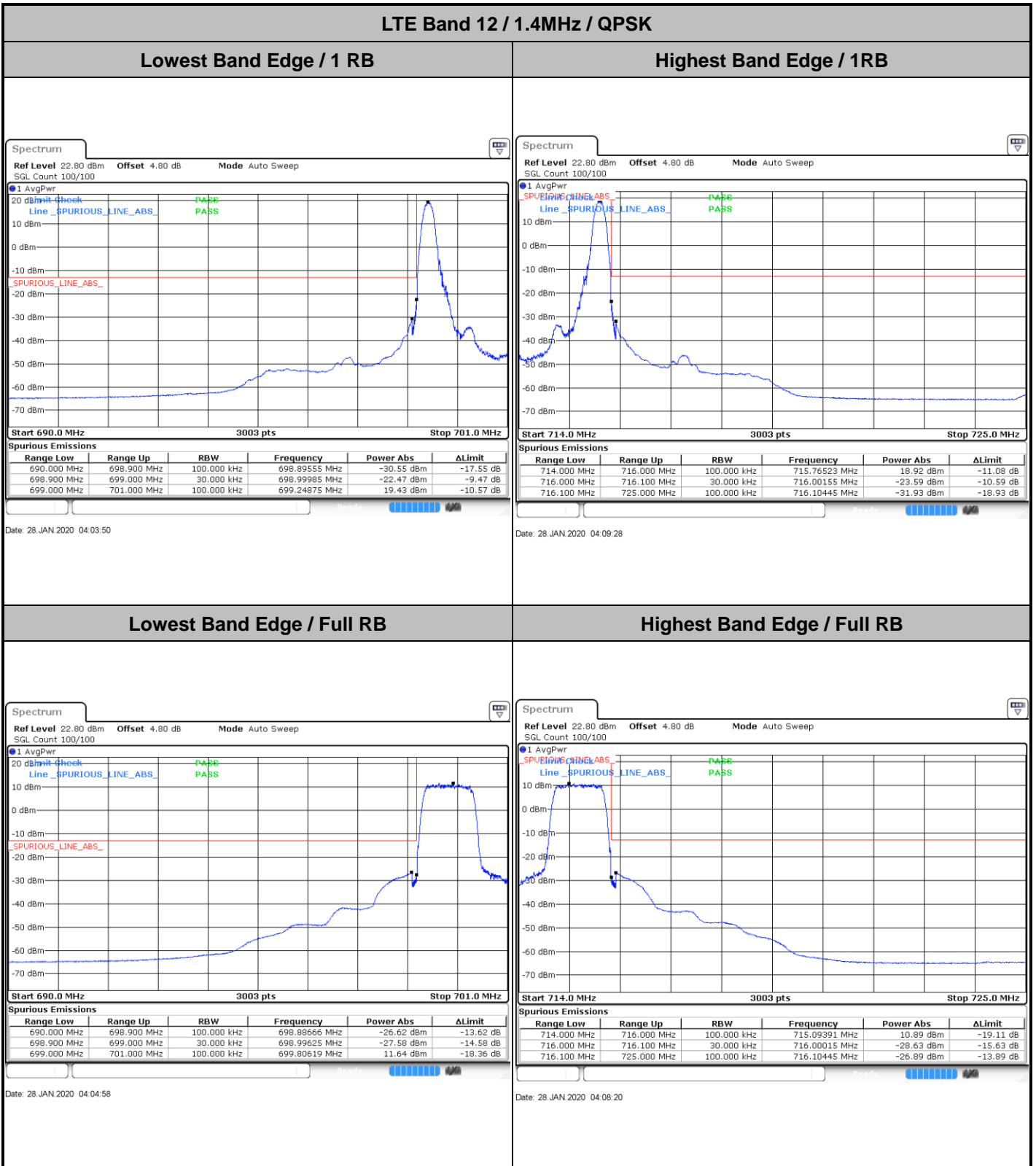
Highest Channel / 10MHz / 16QAM



Date: 28 JAN 2020 04:44:25



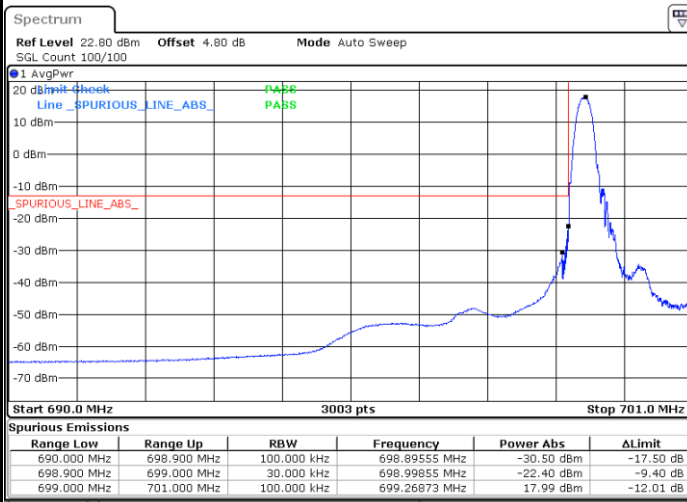
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



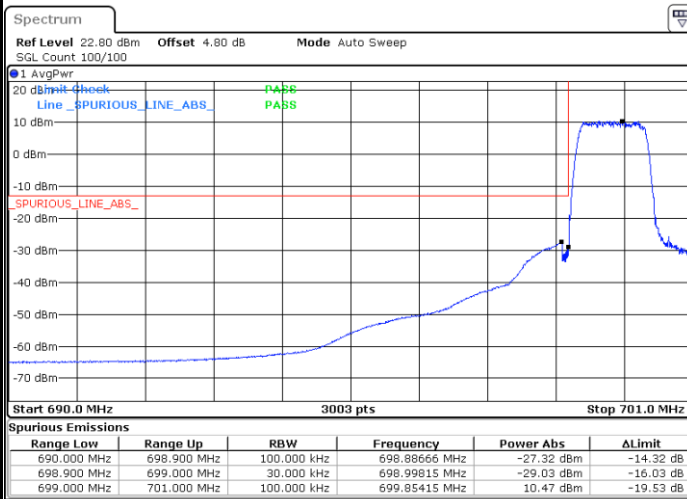
Date: 28. JAN 2020 04:02:43

Highest Band Edge / 1 RB



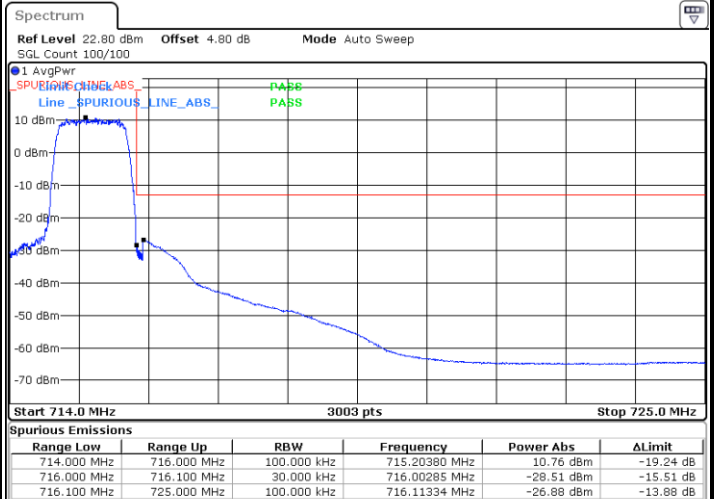
Date: 28. JAN 2020 04:10:35

Lowest Band Edge / Full RB



Date: 28. JAN 2020 04:06:05

Highest Band Edge / Full RB

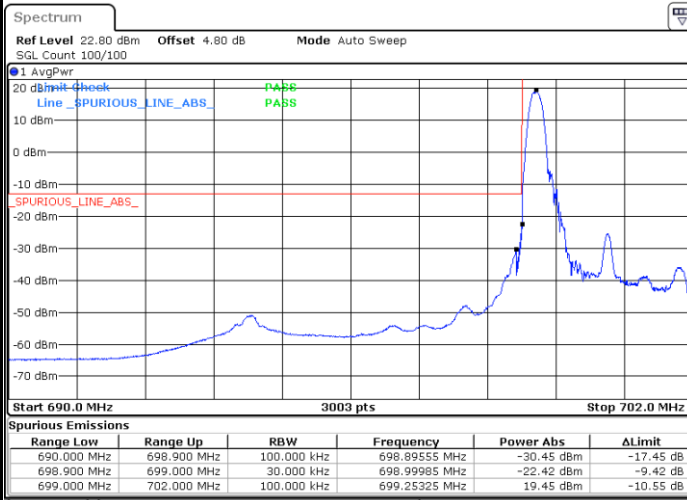


Date: 28. JAN 2020 04:07:13



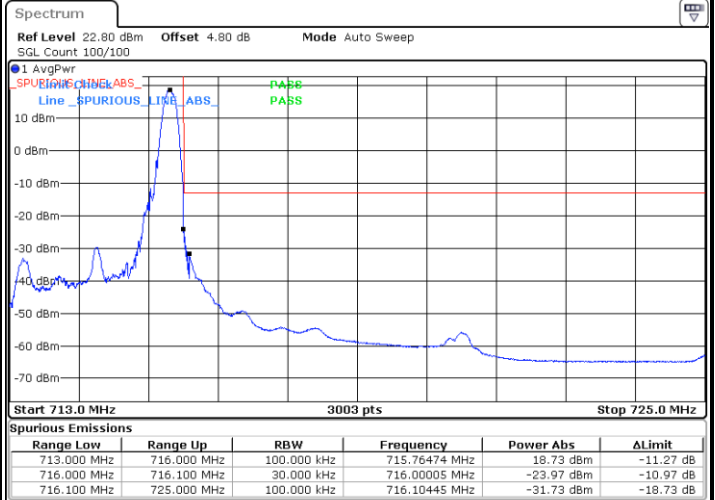
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



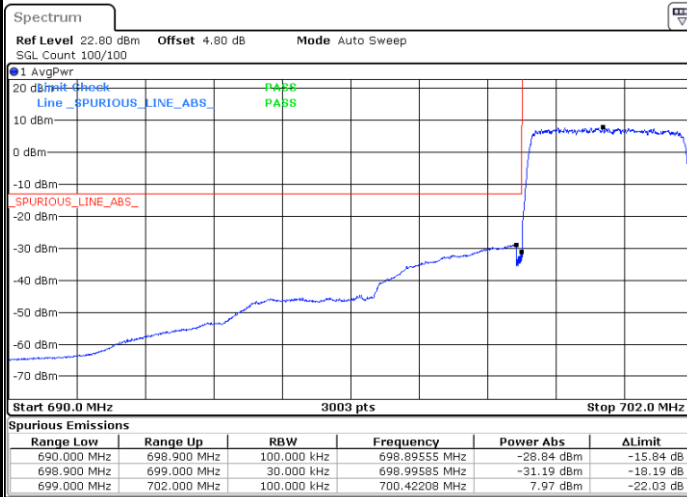
Date: 28 JAN 2020 04:20:16

Highest Band Edge / 1 RB



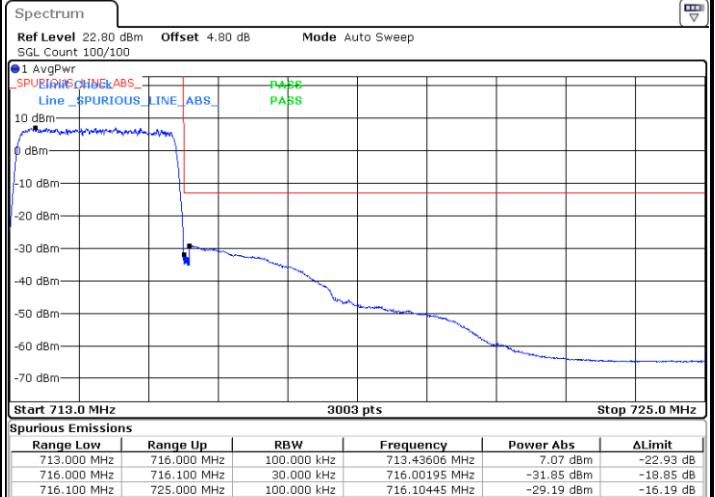
Date: 28 JAN 2020 04:25:53

Lowest Band Edge / Full RB



Date: 28 JAN 2020 04:21:23

Highest Band Edge / Full RB

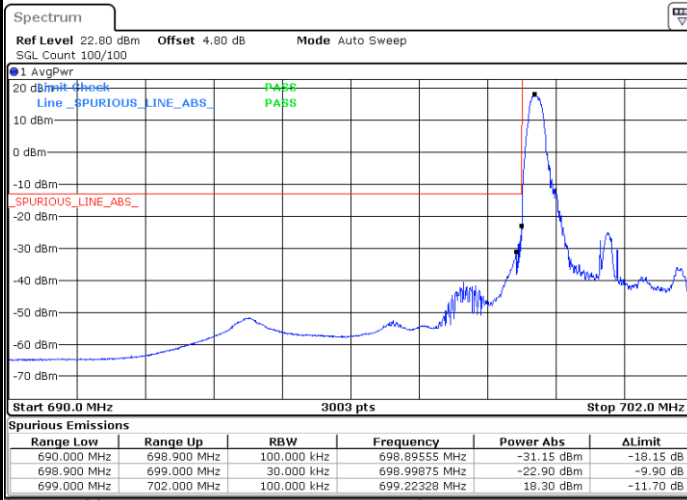


Date: 28 JAN 2020 04:24:45



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



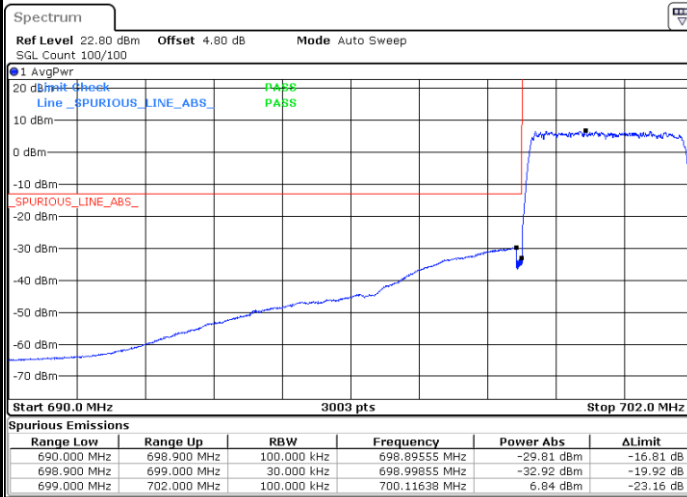
Date: 28 JAN 2020 04:19:08

Highest Band Edge / 1 RB



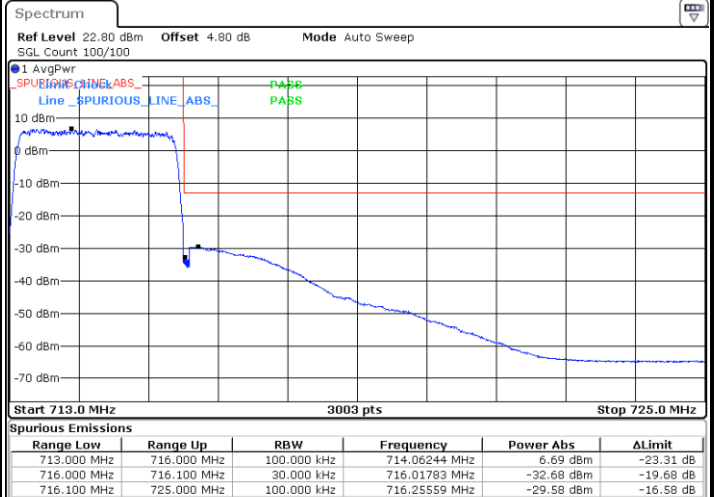
Date: 28 JAN 2020 04:27:00

Lowest Band Edge / Full RB



Date: 28 JAN 2020 04:22:30

Highest Band Edge / Full RB

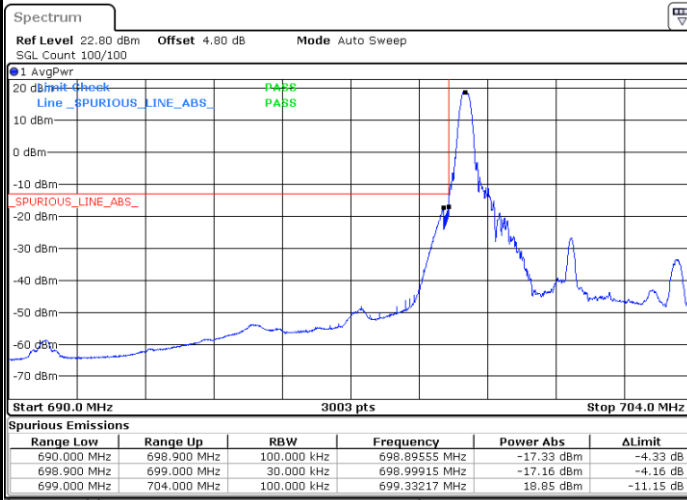


Date: 28 JAN 2020 04:23:38



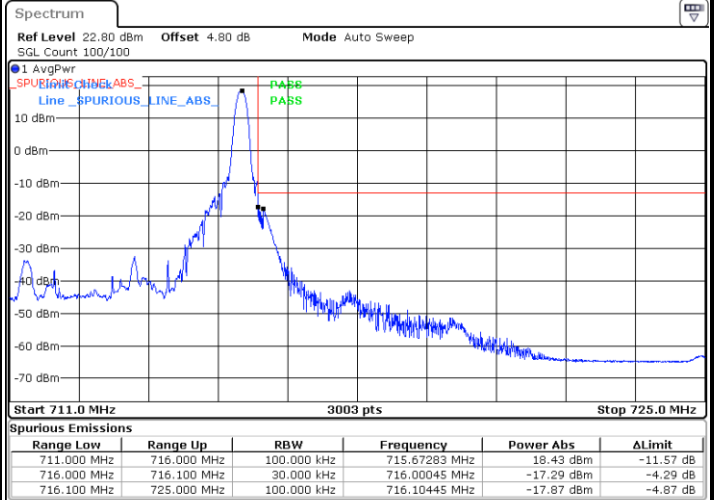
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



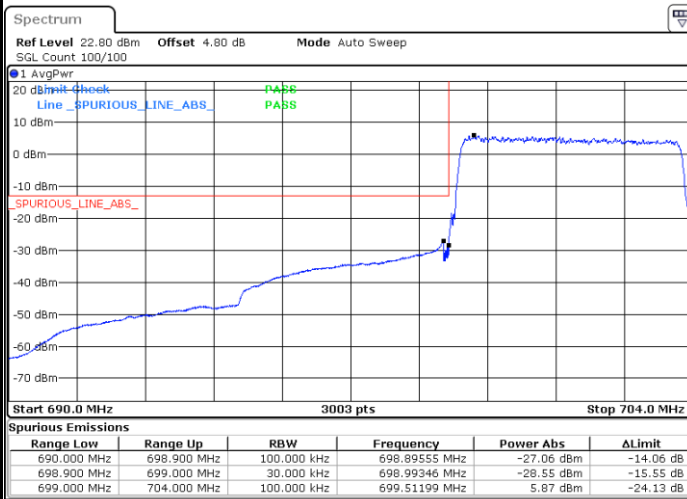
Date: 28. JAN 2020 04:36:41

Highest Band Edge / 1 RB



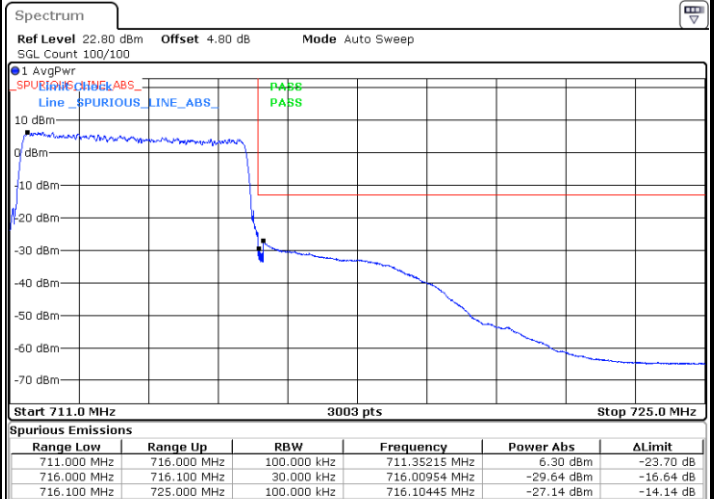
Date: 28. JAN 2020 04:42:18

Lowest Band Edge / Full RB



Date: 28. JAN 2020 04:37:48

Highest Band Edge / Full RB

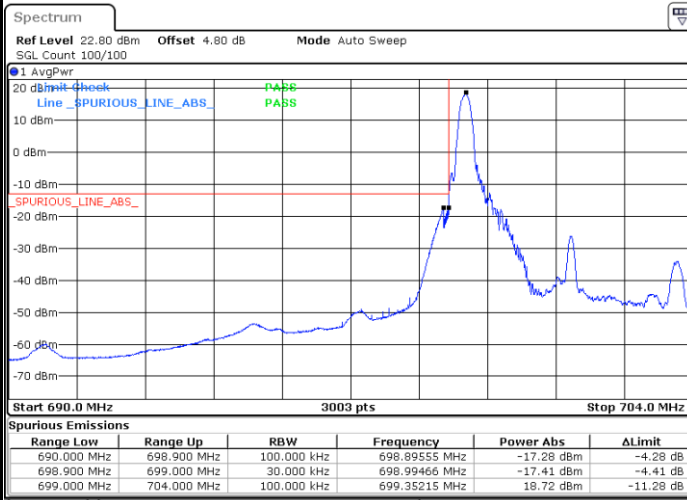


Date: 28. JAN 2020 04:41:10



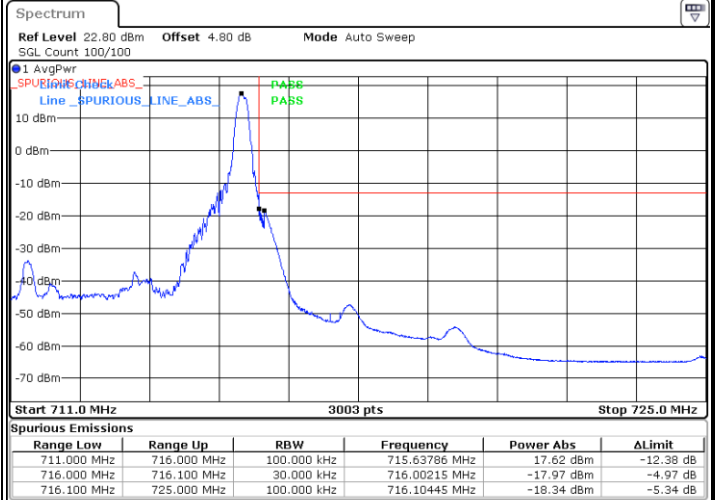
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



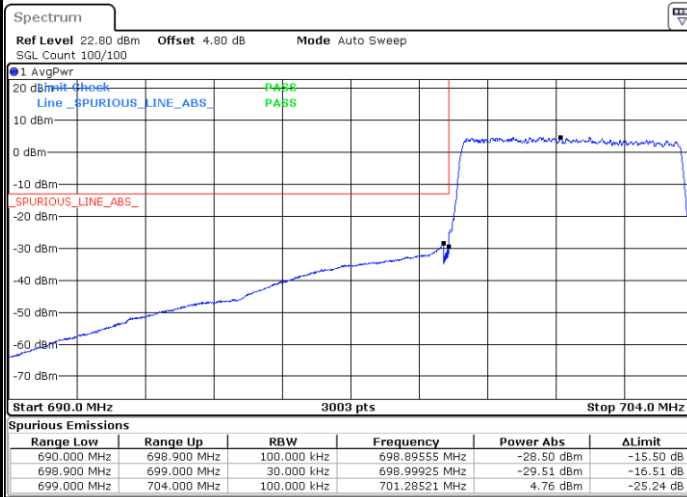
Date: 28. JAN 2020 04:35:33

Highest Band Edge / 1 RB



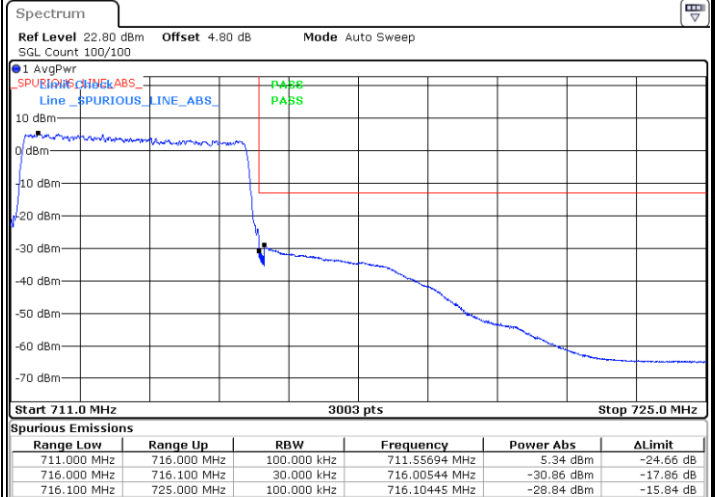
Date: 28. JAN 2020 04:43:25

Lowest Band Edge / Full RB



Date: 28. JAN 2020 04:38:55

Highest Band Edge / Full RB

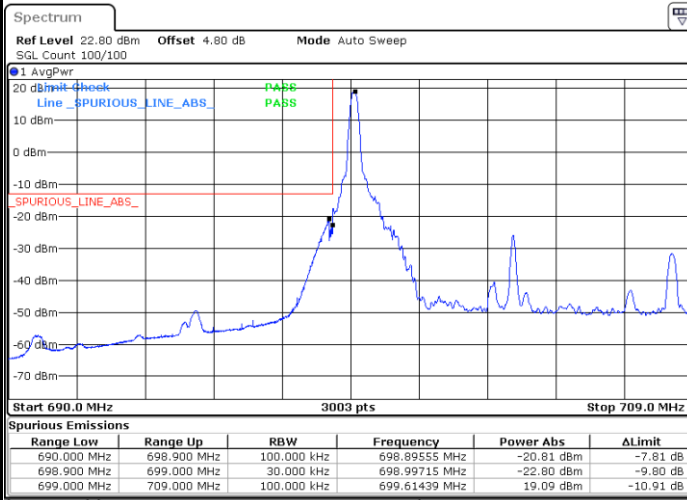


Date: 28. JAN 2020 04:40:03



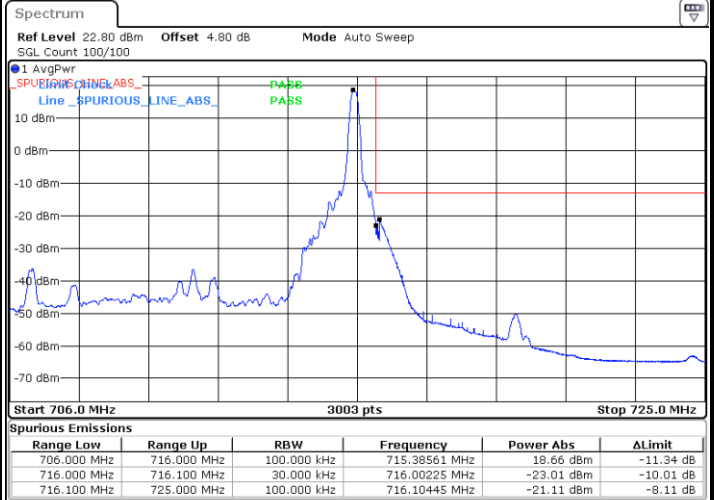
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



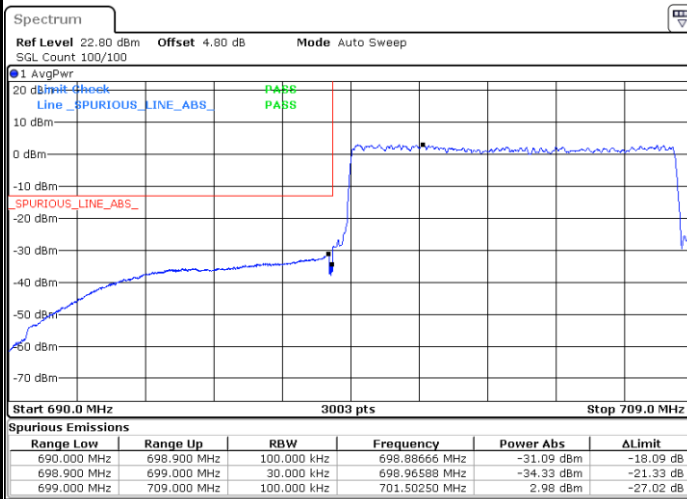
Date: 28. JAN 2020 04:53:06

Highest Band Edge / 1 RB



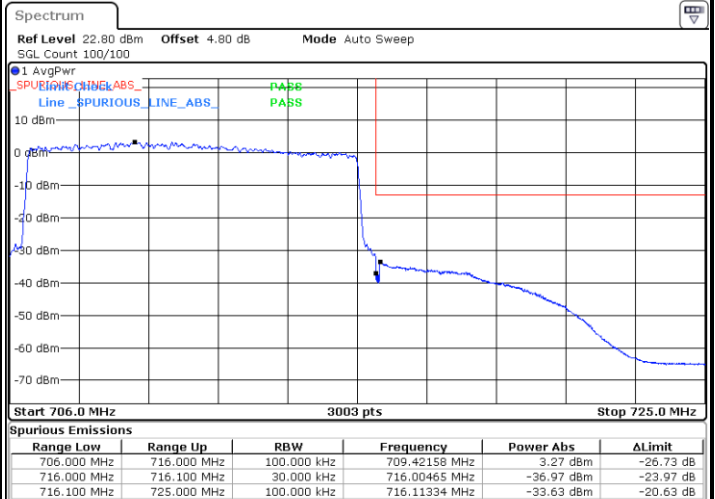
Date: 28. JAN 2020 04:58:43

Lowest Band Edge / Full RB



Date: 28. JAN 2020 04:54:13

Highest Band Edge / Full RB

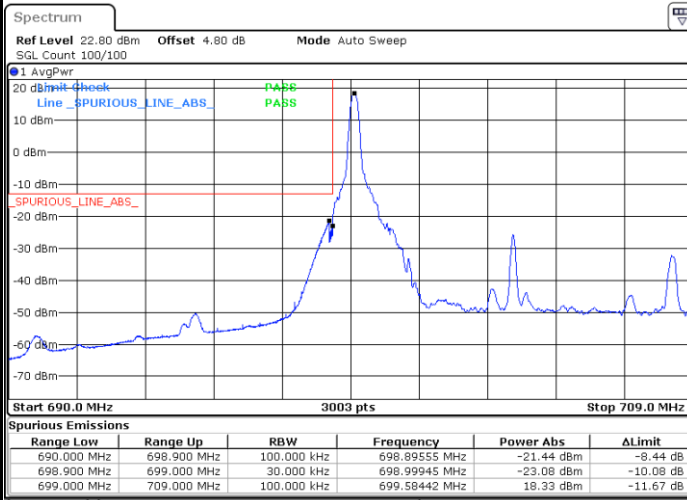


Date: 28. JAN 2020 04:57:36



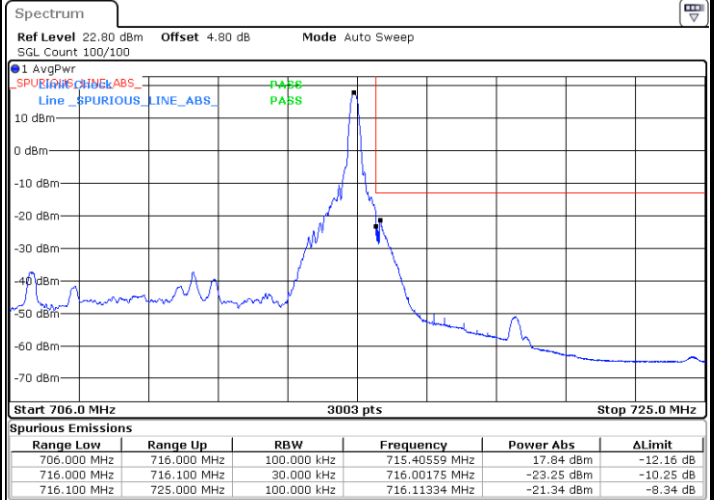
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



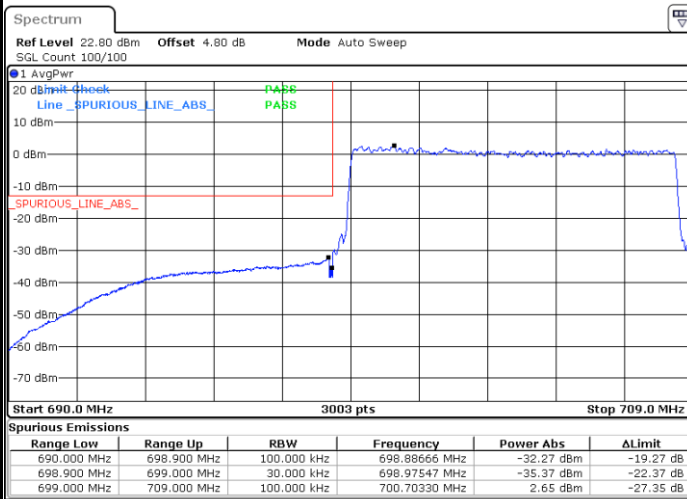
Date: 28. JAN 2020 04:51:58

Highest Band Edge / 1 RB



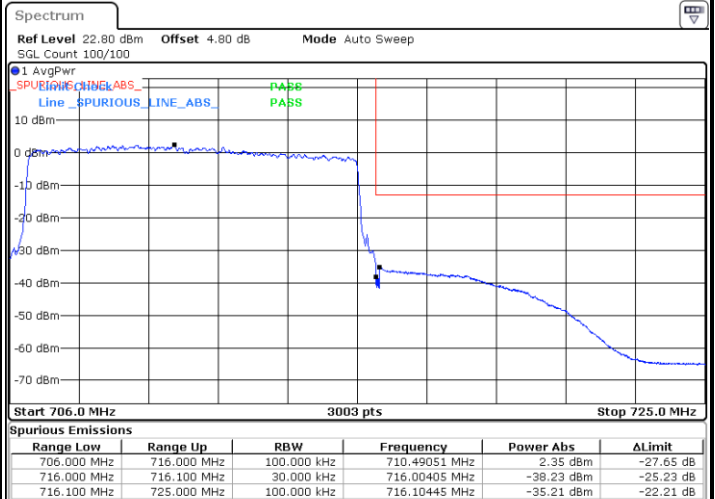
Date: 28. JAN 2020 04:59:50

Lowest Band Edge / Full RB



Date: 28. JAN 2020 04:55:21

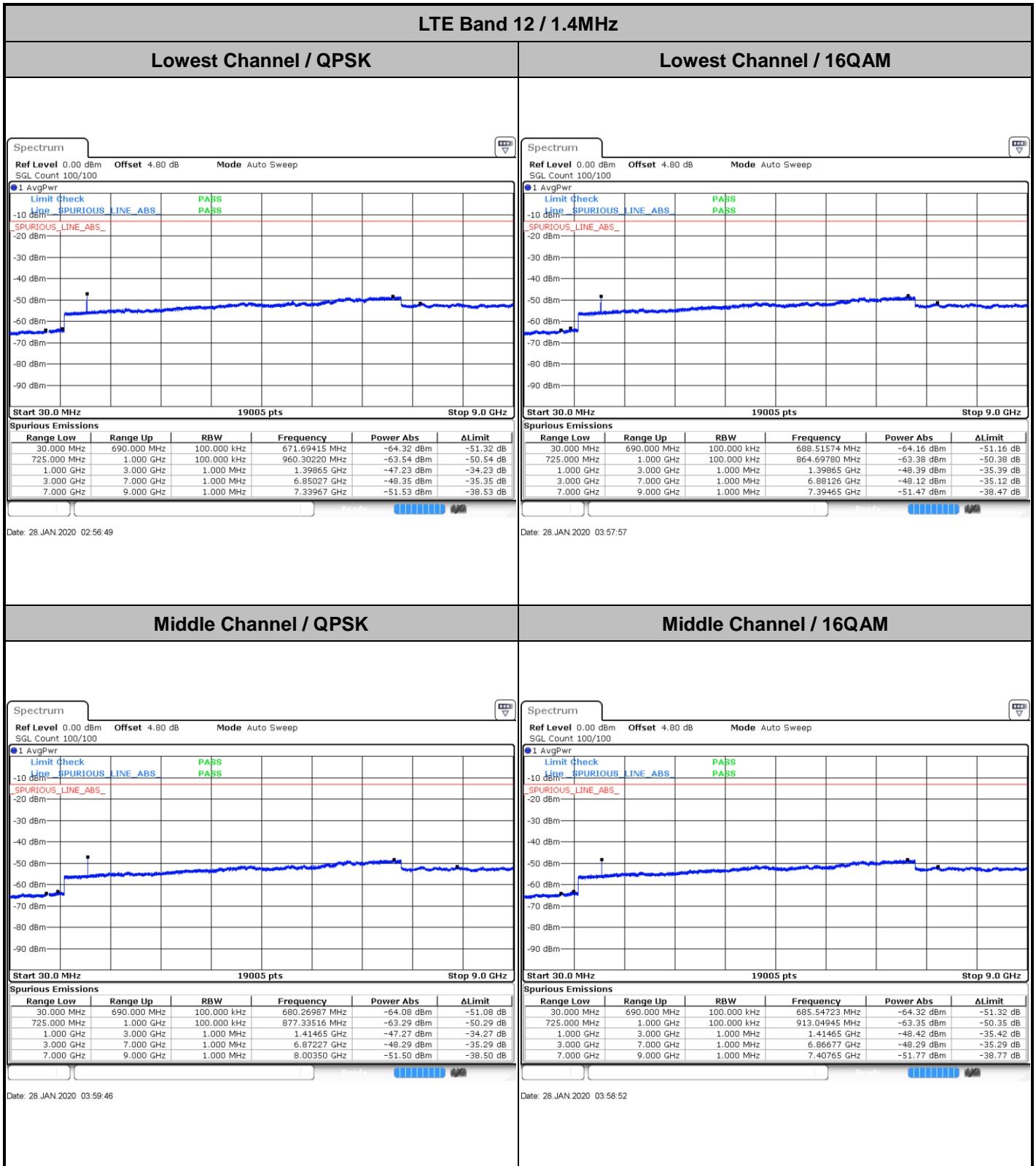
Highest Band Edge / Full RB



Date: 28. JAN 2020 04:56:28



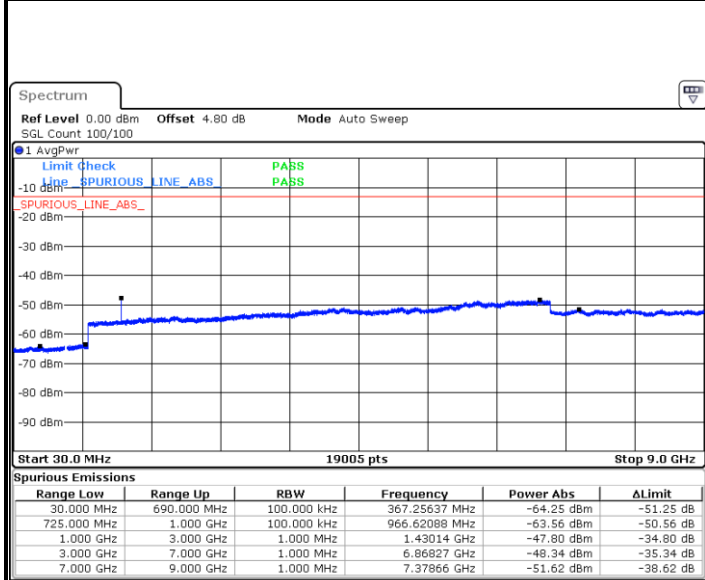
Conducted Spurious Emission





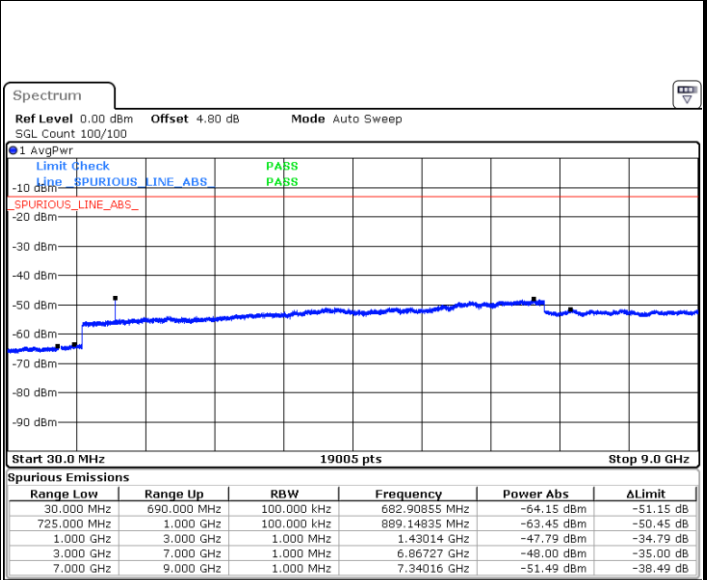
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 28 JAN 2020 04:00:40

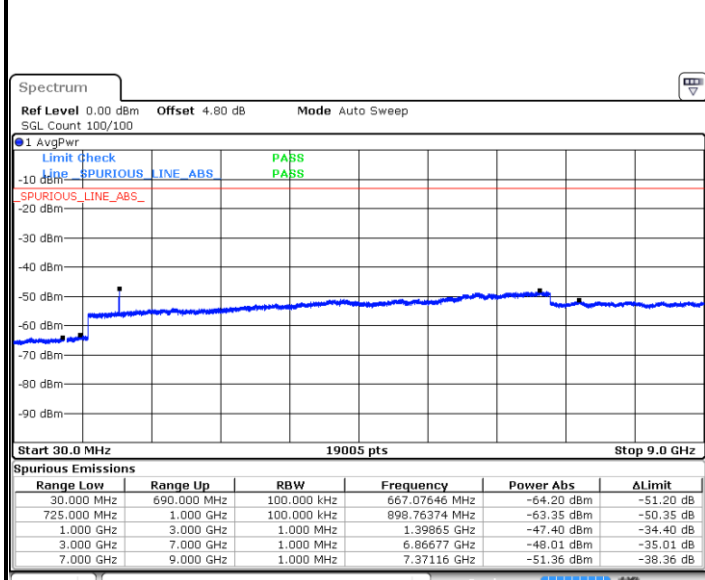
Highest Channel / 16QAM



Date: 28 JAN 2020 04:01:35

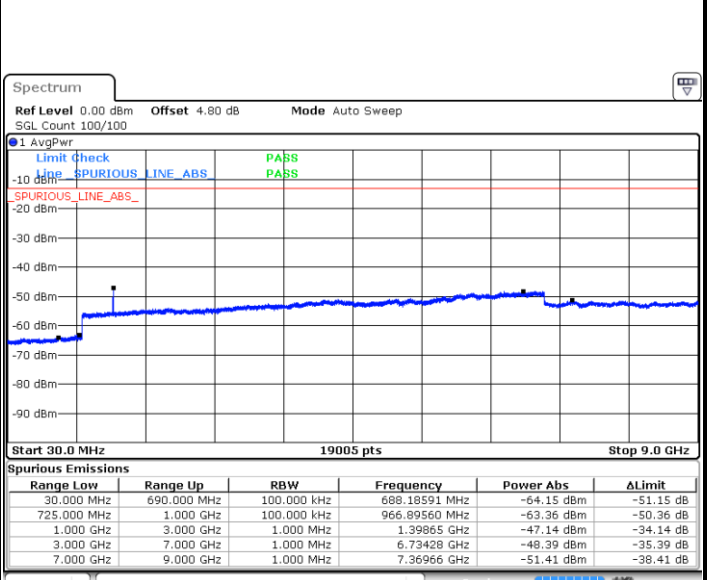
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 28 JAN 2020 04:13:28

Lowest Channel / 16QAM

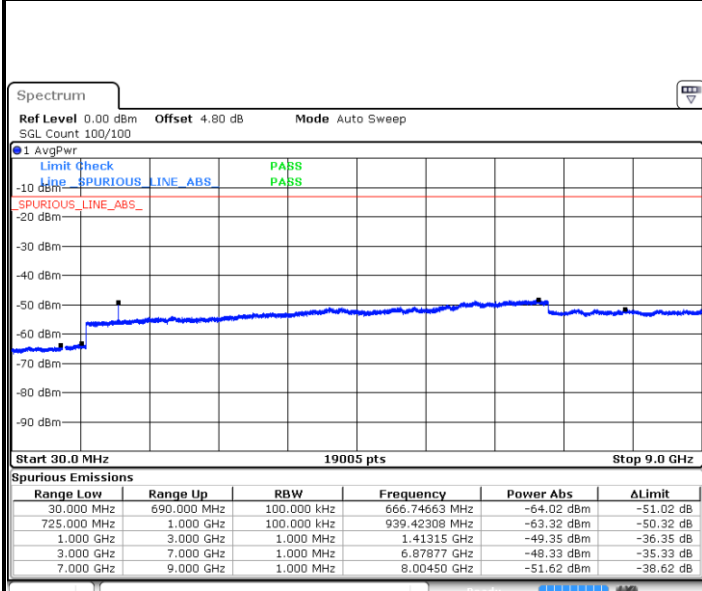


Date: 28 JAN 2020 04:14:22



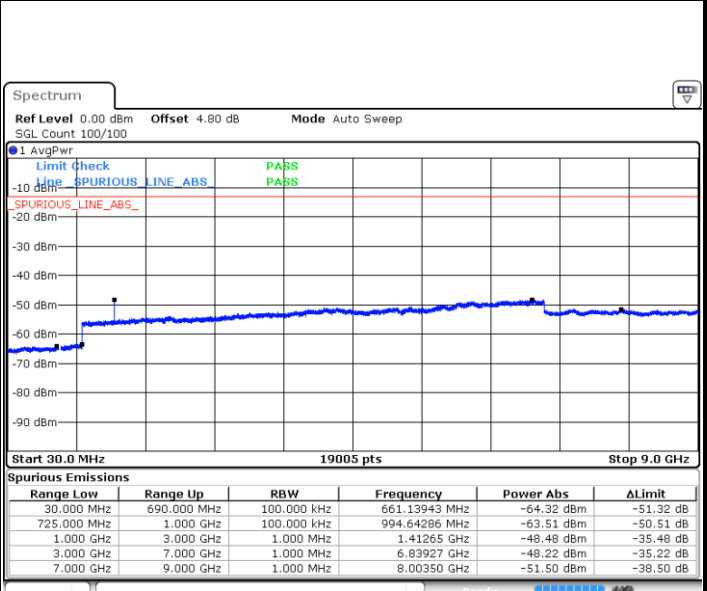
LTE Band 12 / 3MHz

Middle Channel / QPSK



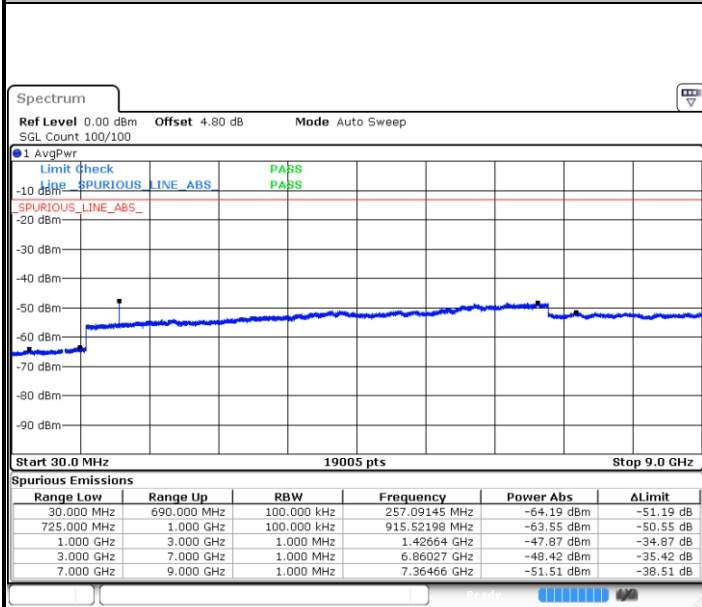
Date: 28 JAN 2020 04:16:11

Middle Channel / 16QAM



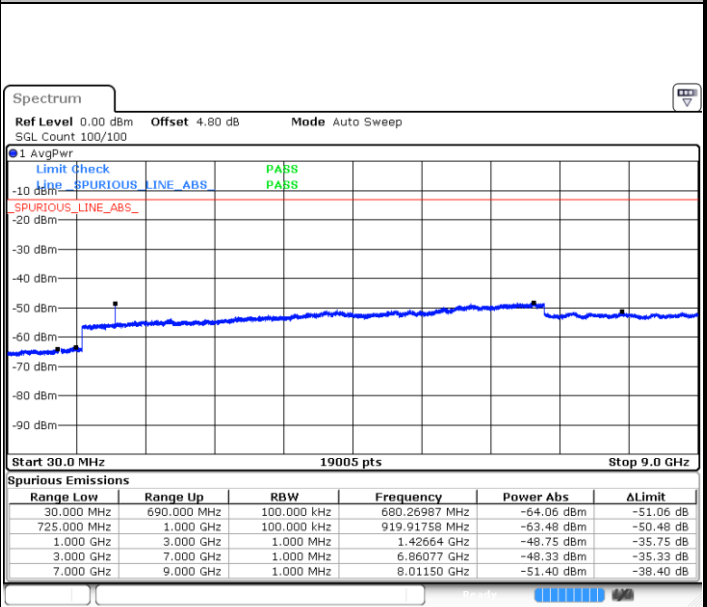
Date: 28 JAN 2020 04:15:17

Highest Channel / QPSK



Date: 28 JAN 2020 04:17:05

Highest Channel / 16QAM



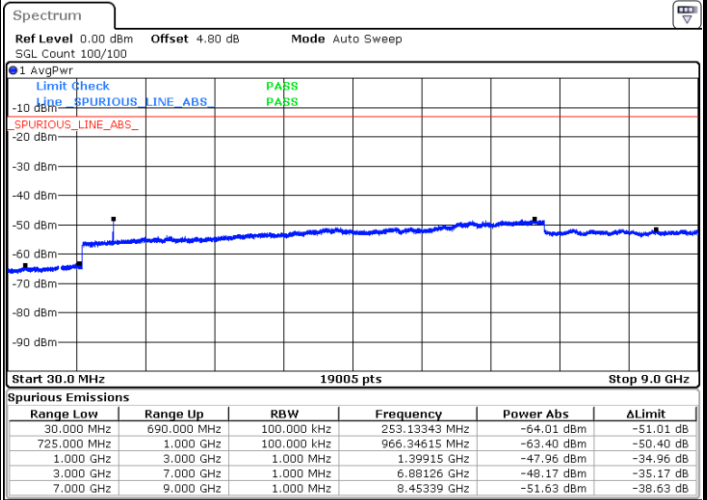
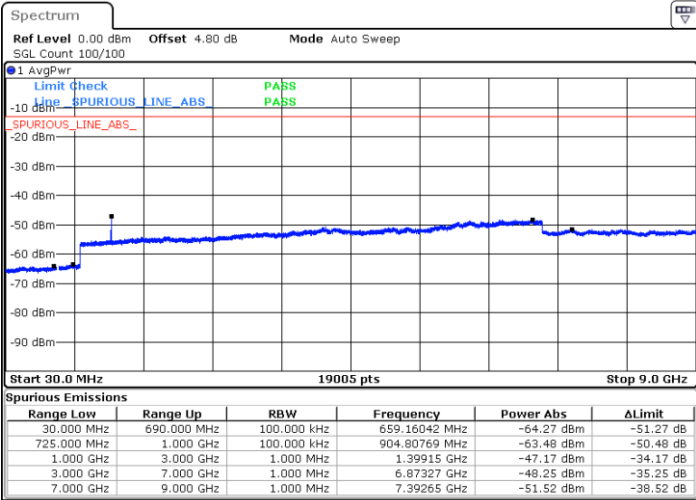
Date: 28 JAN 2020 04:18:00



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

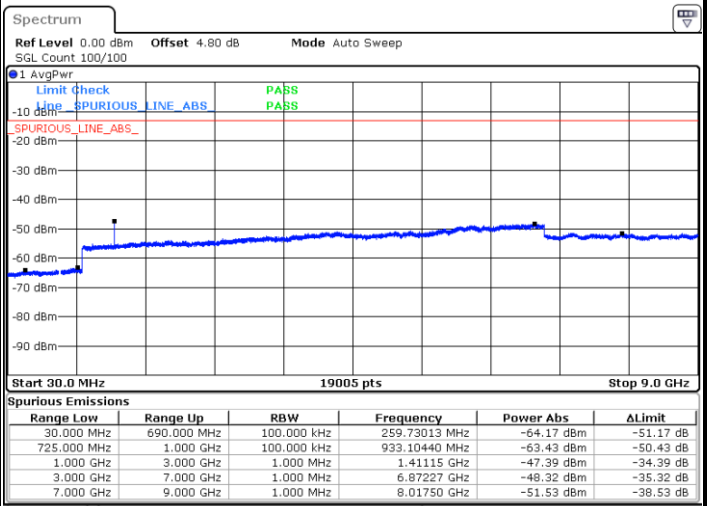
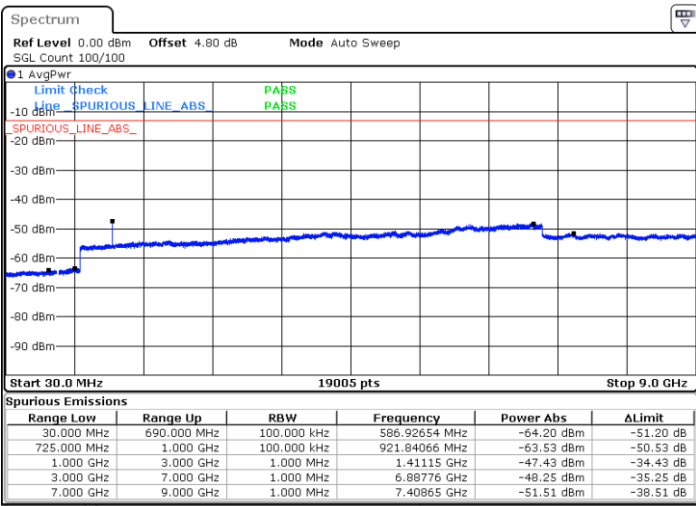


Date: 28 JAN 2020 04:29:53

Date: 28 JAN 2020 04:30:48

Middle Channel / QPSK

Middle Channel / 16QAM



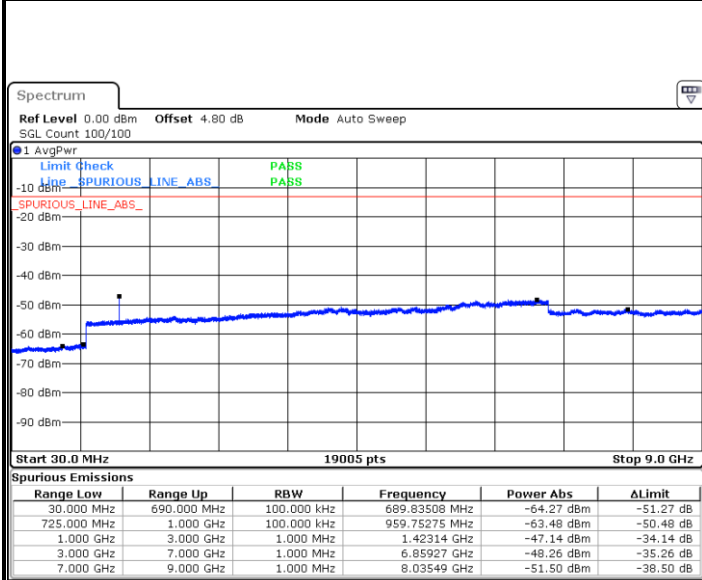
Date: 28 JAN 2020 04:32:36

Date: 28 JAN 2020 04:31:42



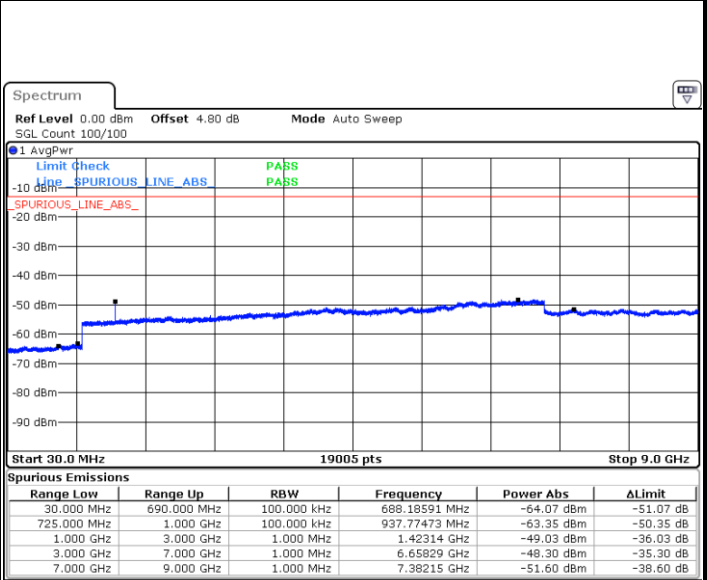
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 28 JAN 2020 04:33:31

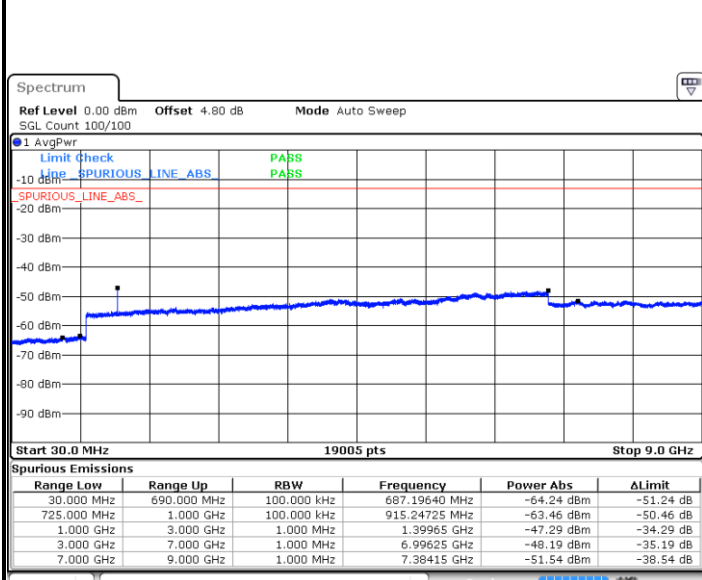
Highest Channel / 16QAM



Date: 28 JAN 2020 04:34:25

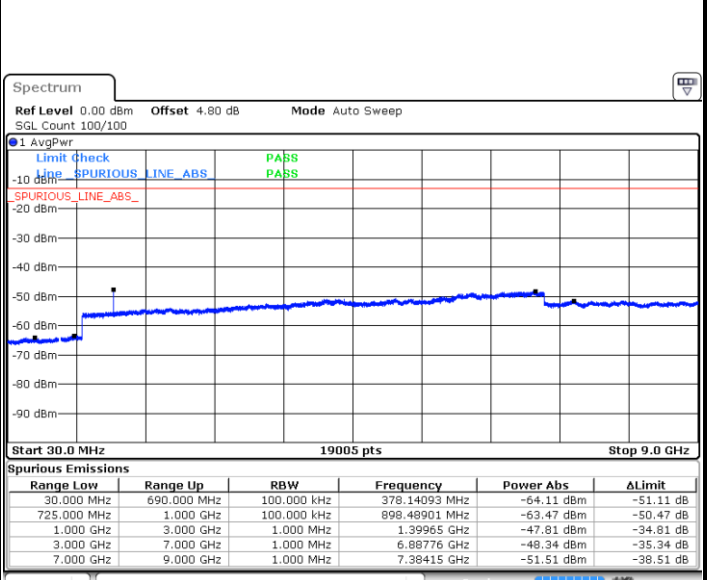
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 28 JAN 2020 04:46:19

Lowest Channel / 16QAM

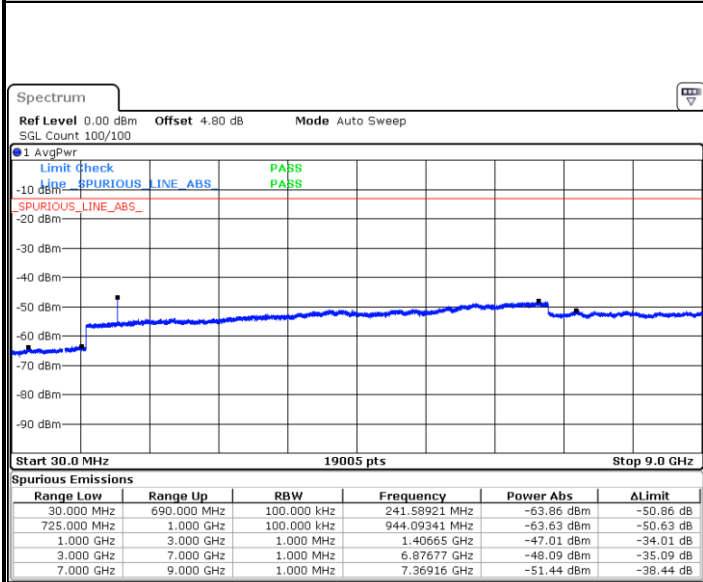


Date: 28 JAN 2020 04:47:13



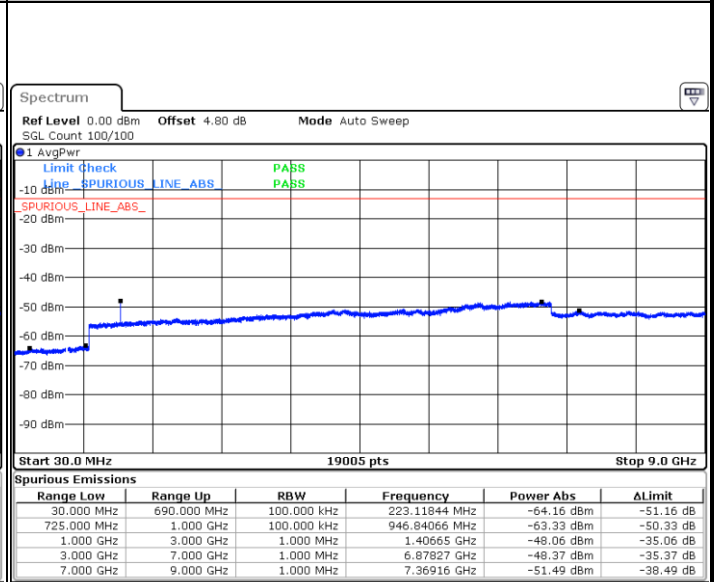
LTE Band 12 / 10MHz

Middle Channel / QPSK



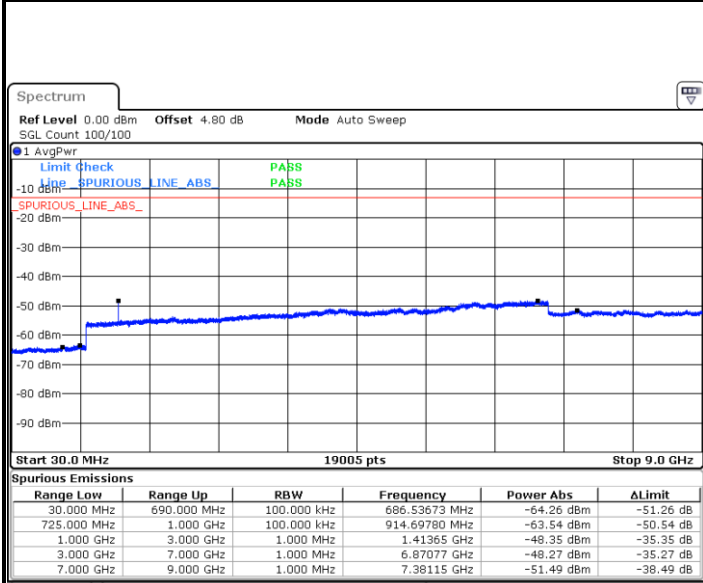
Date: 28 JAN 2020 04:49:01

Middle Channel / 16QAM



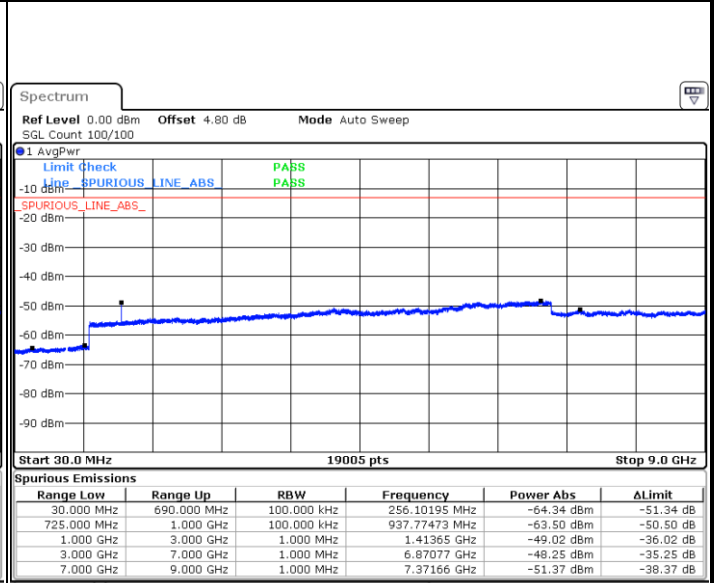
Date: 28 JAN 2020 04:48:07

Highest Channel / QPSK



Date: 28 JAN 2020 04:49:56

Highest Channel / 16QAM



Date: 28 JAN 2020 04:50:50



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0090	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0106	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

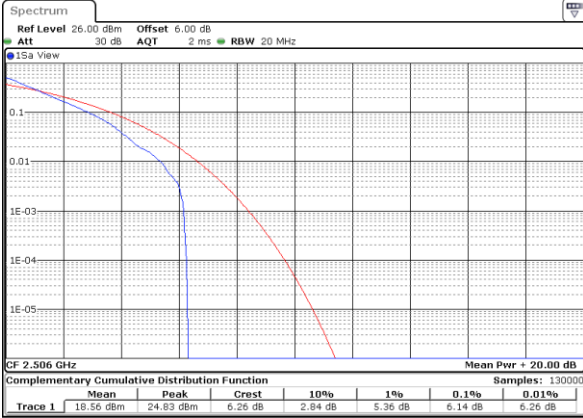
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.14	6.12	6.78	6.81	PASS
Middle CH	6.14	5.91	6.70	6.64	
Highest CH	5.91	6.70	7.88	6.78	



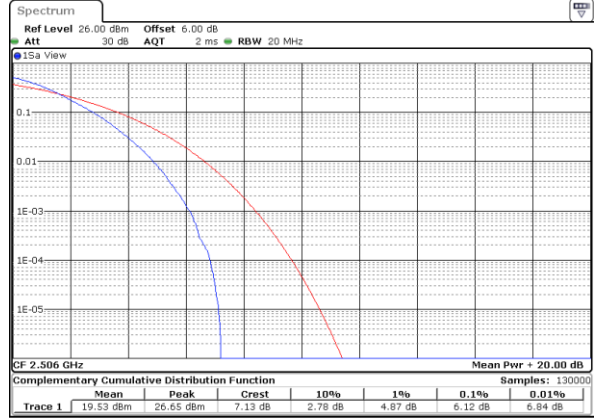
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



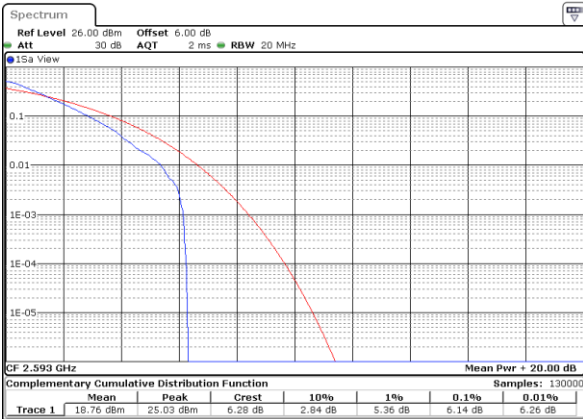
Date: 6 MAR 2020 13:19:08

Lowest Channel / Full RB



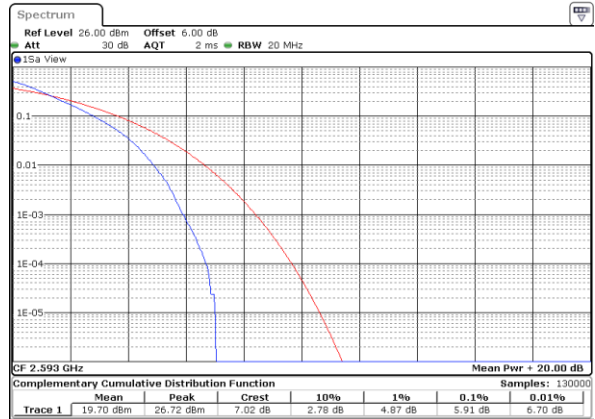
Date: 6 MAR 2020 13:23:11

Middle Channel / 1RB



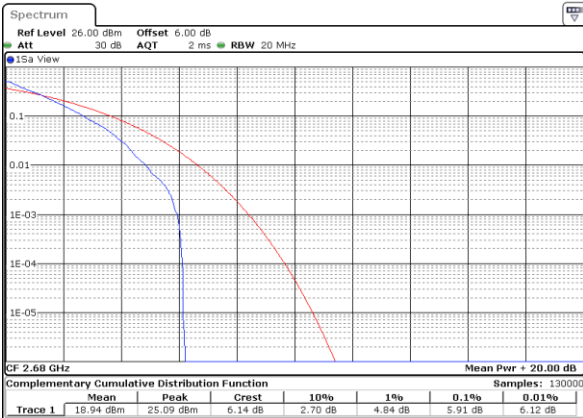
Date: 6 MAR 2020 13:19:57

Middle Channel / Full RB



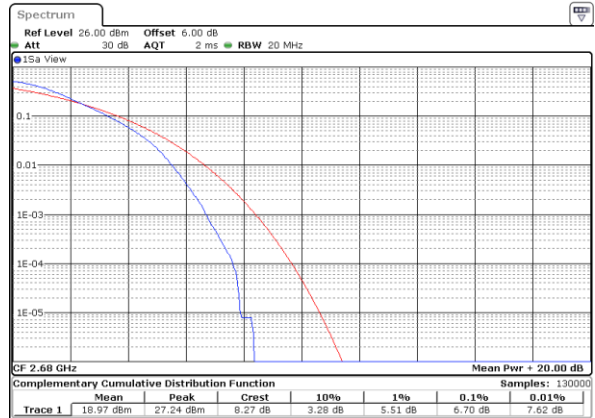
Date: 6 MAR 2020 13:17:57

Highest Channel / 1RB



Date: 6 MAR 2020 13:20:29

Highest Channel / Full RB



Date: 6 MAR 2020 13:18:49



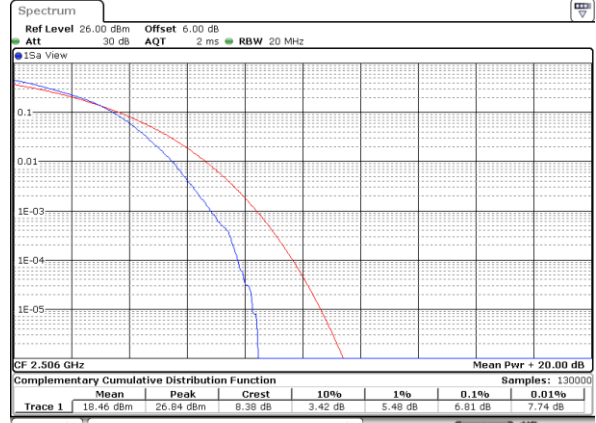
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



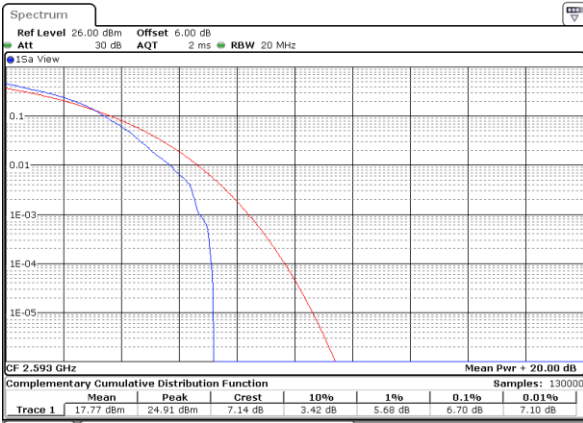
Date: 6 MAR 2020 13:19:30

Lowest Channel / Full RB



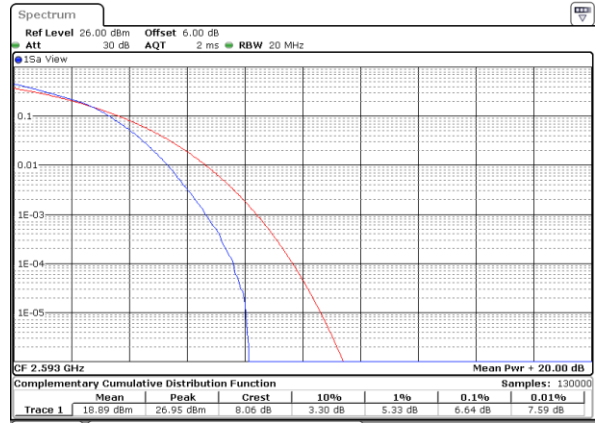
Date: 6 MAR 2020 13:17:46

Middle Channel / 1RB



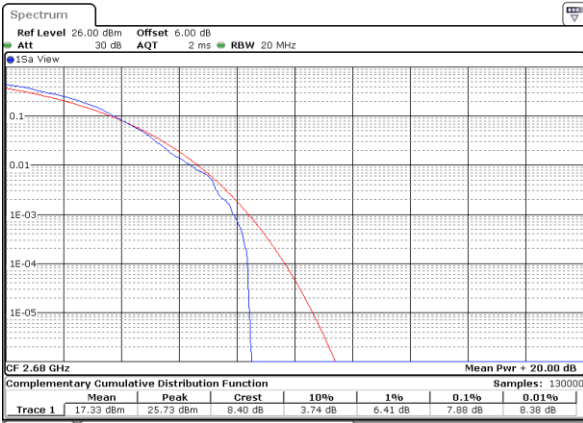
Date: 6 MAR 2020 13:20:08

Middle Channel / Full RB



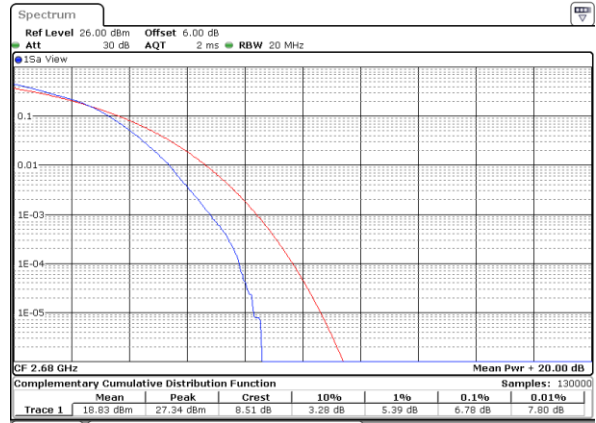
Date: 6 MAR 2020 13:18:12

Highest Channel / 1RB



Date: 6 MAR 2020 13:22:05

Highest Channel / Full RB



Date: 6 MAR 2020 13:18:59



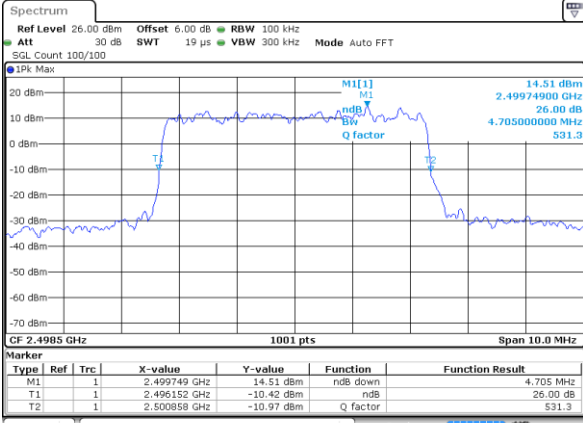
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.705	4.815	9.61	9.69	14.176	14.176	20.06	20.14
Middle CH	-	-	-	-	4.835	4.735	9.65	9.93	14.266	14.206	20.22	20.18
Highest CH	-	-	-	-	4.835	4.755	9.63	9.71	14.296	14.116	20.06	20.22



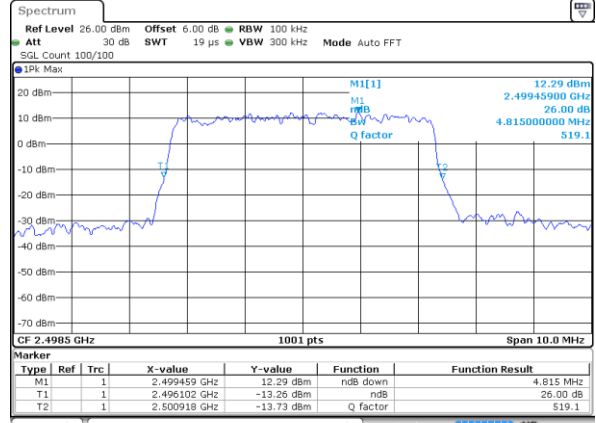
LTE Band 41

Lowest Channel / 5MHz / QPSK



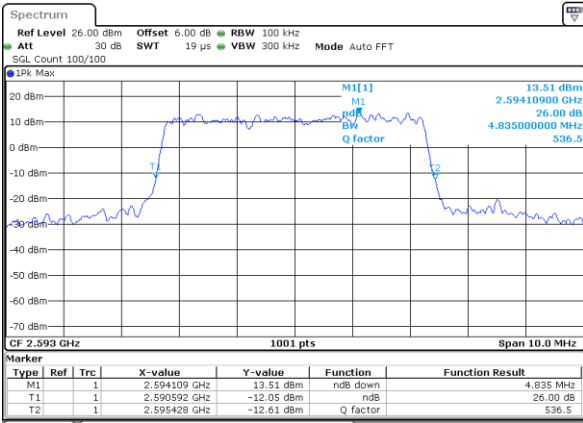
Date: 6 MAR 2020 12:04:26

Lowest Channel / 5MHz / 16QAM



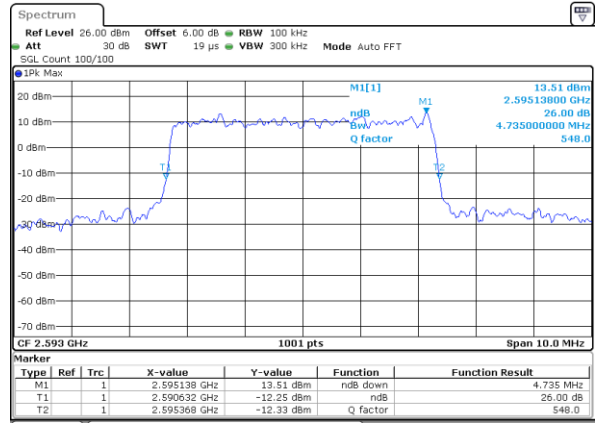
Date: 6 MAR 2020 12:04:46

Middle Channel / 5MHz / QPSK



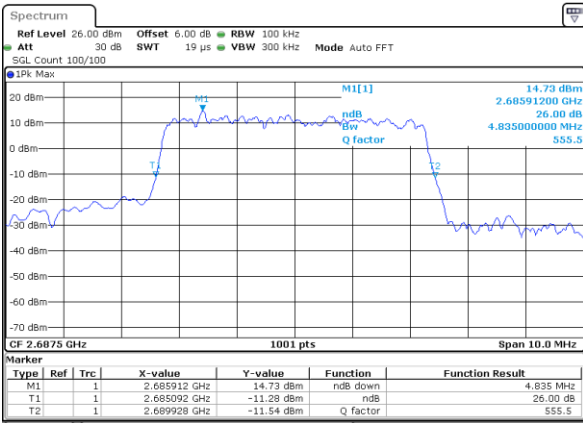
Date: 6 MAR 2020 12:05:06

Middle Channel / 5MHz / 16QAM



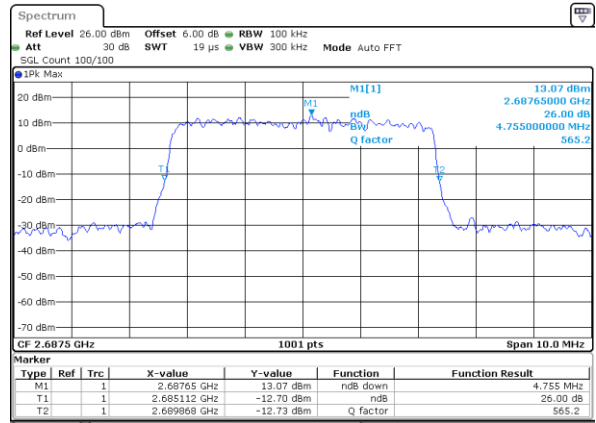
Date: 6 MAR 2020 12:05:26

Highest Channel / 5MHz / QPSK



Date: 6 MAR 2020 12:05:46

Highest Channel / 5MHz / 16QAM

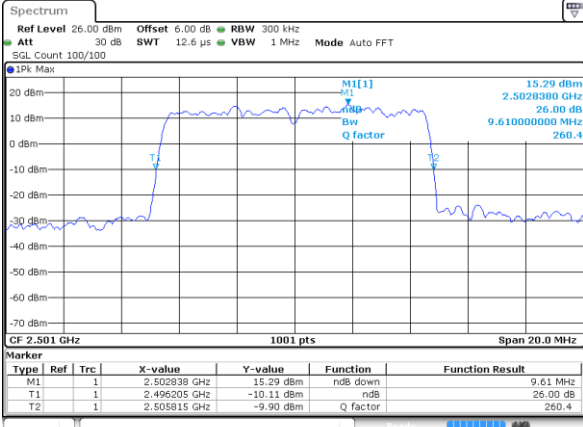


Date: 6 MAR 2020 12:06:06



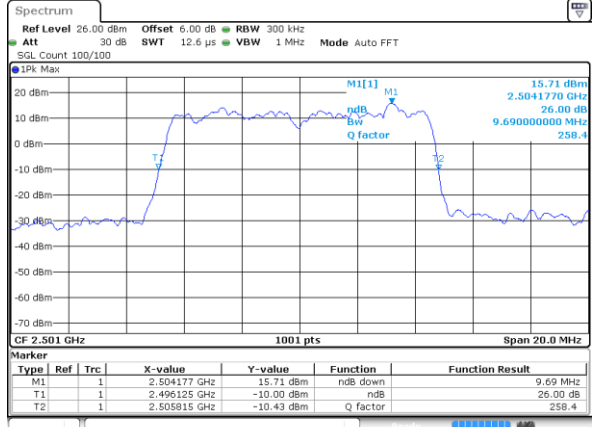
LTE Band 41

Lowest Channel / 10MHz / QPSK



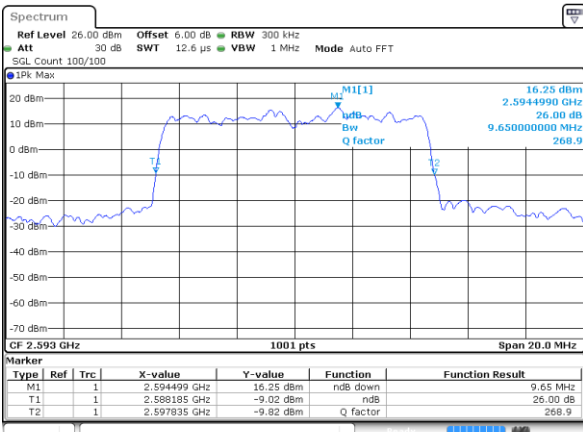
Date: 6 MAR 2020 12:06:26

Lowest Channel / 10MHz / 16QAM



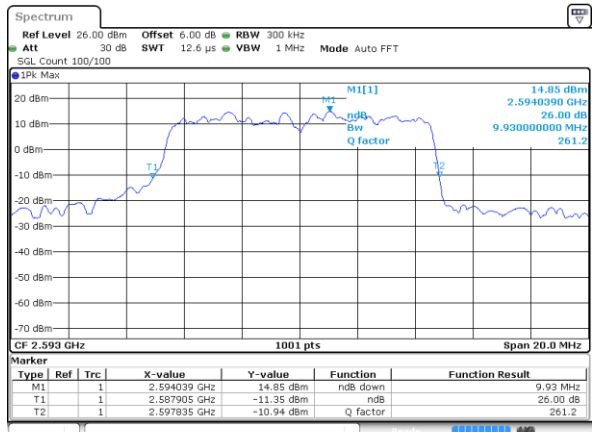
Date: 6 MAR 2020 12:06:46

Middle Channel / 10MHz / QPSK



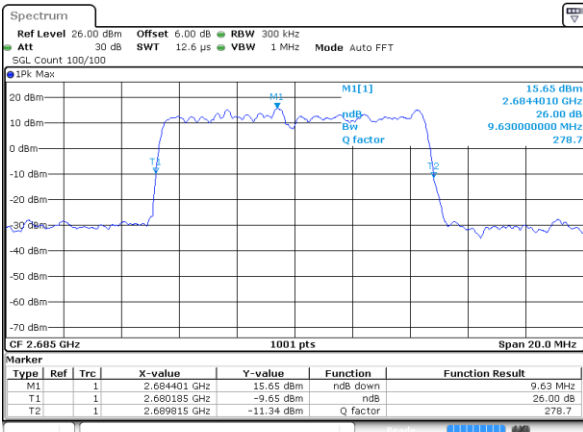
Date: 6 MAR 2020 12:07:06

Middle Channel / 10MHz / 16QAM



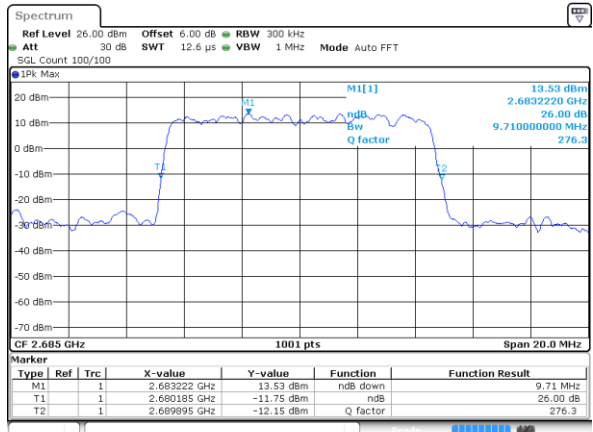
Date: 6 MAR 2020 12:07:26

Highest Channel / 10MHz / QPSK



Date: 6 MAR 2020 12:07:46

Highest Channel / 10MHz / 16QAM

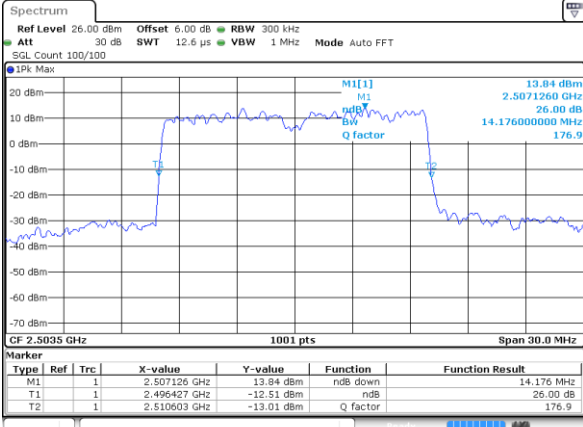


Date: 6 MAR 2020 12:08:06



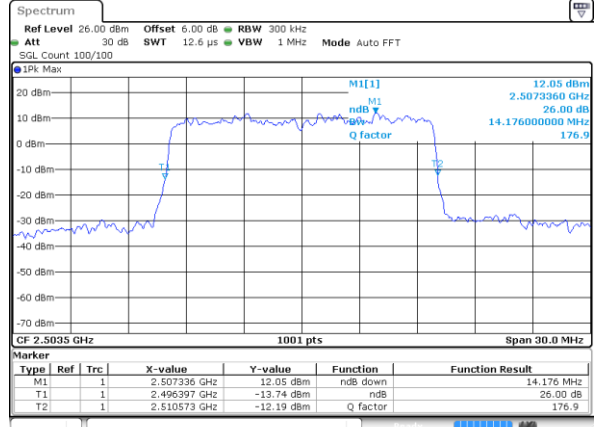
LTE Band 41

Lowest Channel / 15MHz / QPSK



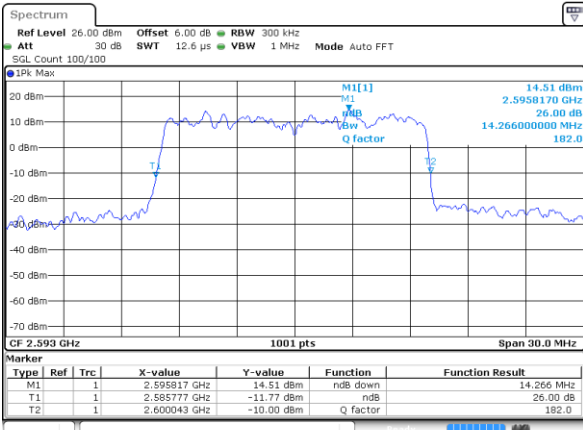
Date: 6 MAR 2020 12:08:26

Lowest Channel / 15MHz / 16QAM



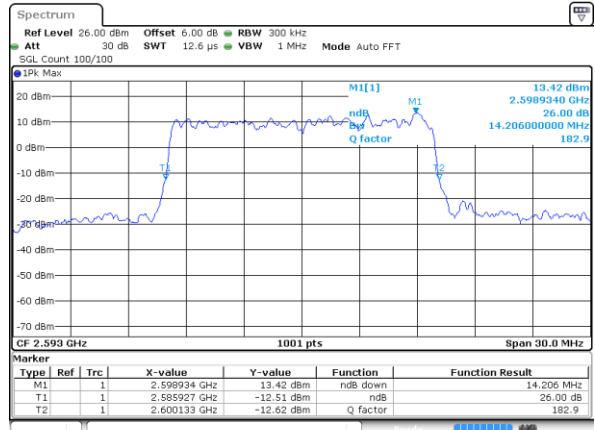
Date: 6 MAR 2020 12:08:46

Middle Channel / 15MHz / QPSK



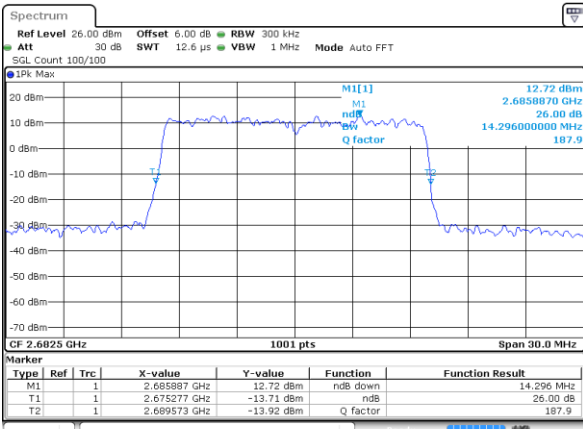
Date: 6 MAR 2020 12:09:06

Middle Channel / 15MHz / 16QAM



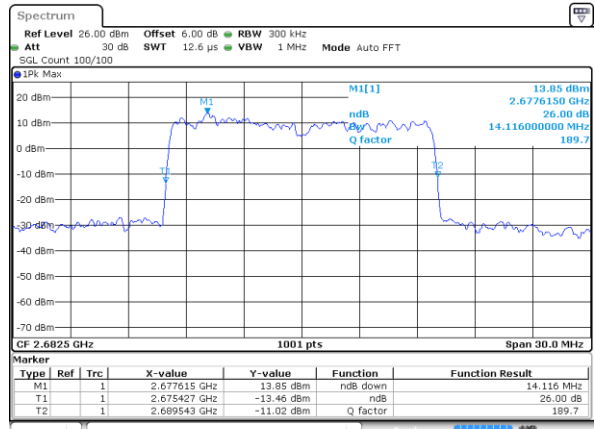
Date: 6 MAR 2020 12:09:25

Highest Channel / 15MHz / QPSK



Date: 6 MAR 2020 12:09:45

Highest Channel / 15MHz / 16QAM

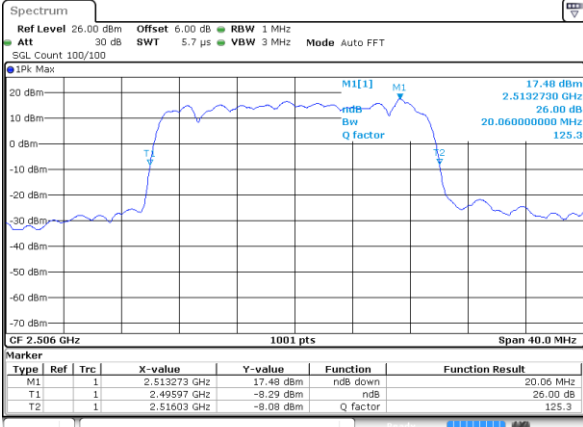


Date: 6 MAR 2020 12:10:05



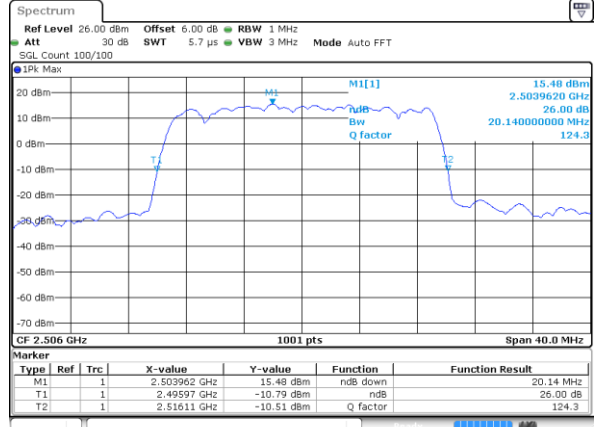
LTE Band 41

Lowest Channel / 20MHz / QPSK



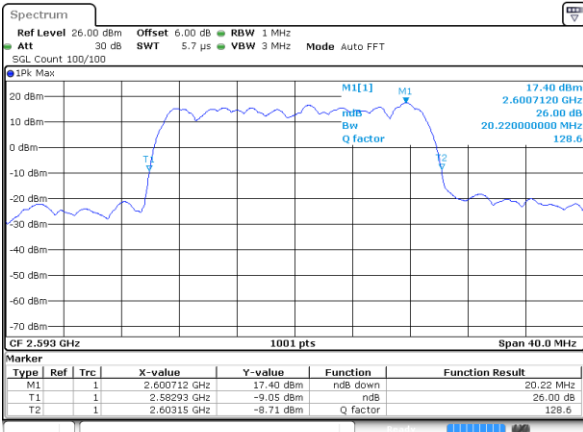
Date: 6 MAR 2020 12:10:25

Lowest Channel / 20MHz / 16QAM



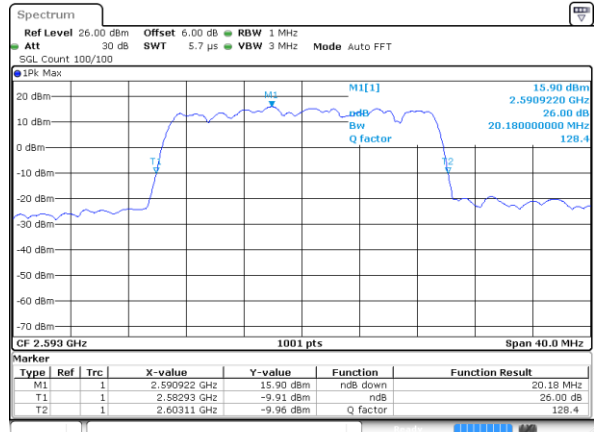
Date: 6 MAR 2020 12:10:45

Middle Channel / 20MHz / QPSK



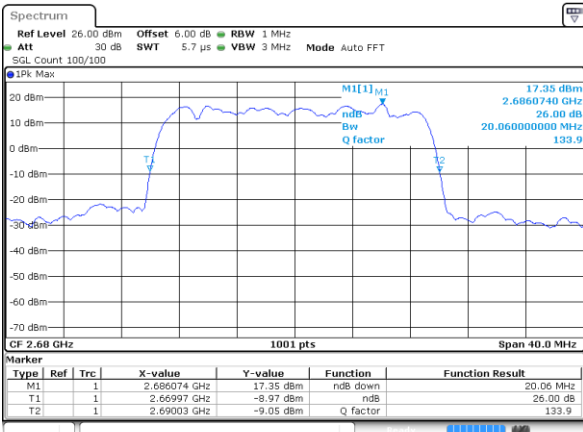
Date: 6 MAR 2020 12:11:05

Middle Channel / 20MHz / 16QAM



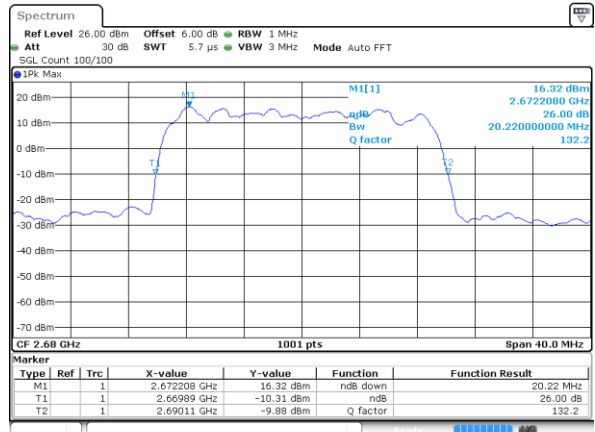
Date: 6 MAR 2020 12:11:25

Highest Channel / 20MHz / QPSK



Date: 6 MAR 2020 12:11:45

Highest Channel / 20MHz / 16QAM



Date: 6 MAR 2020 12:12:05



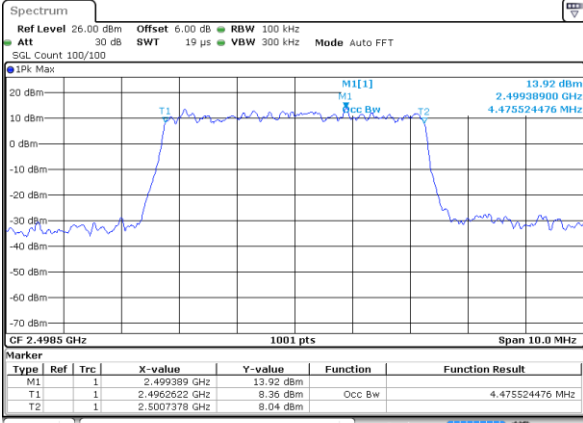
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.49	9.07	8.99	13.49	13.43	18.30	18.22
Middle CH	-	-	-	-	4.49	4.47	8.99	9.03	13.40	13.40	18.34	18.26
Highest CH	-	-	-	-	4.47	4.48	9.01	9.03	13.46	13.49	18.58	18.34



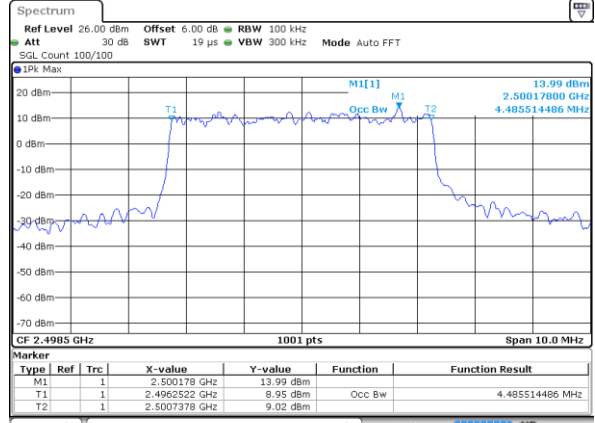
LTE Band 41

Lowest Channel / 5MHz / QPSK



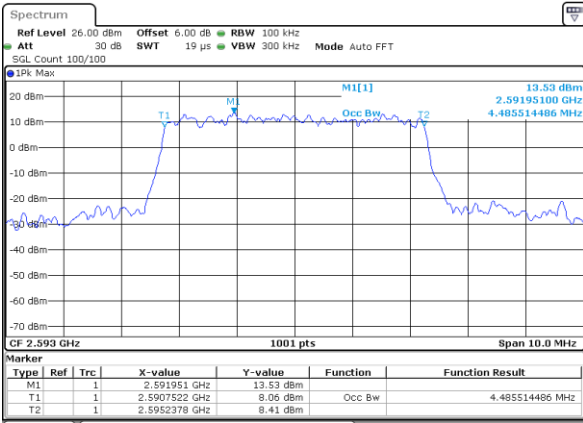
Date: 6 MAR 2020 12:04:16

Lowest Channel / 5MHz / 16QAM



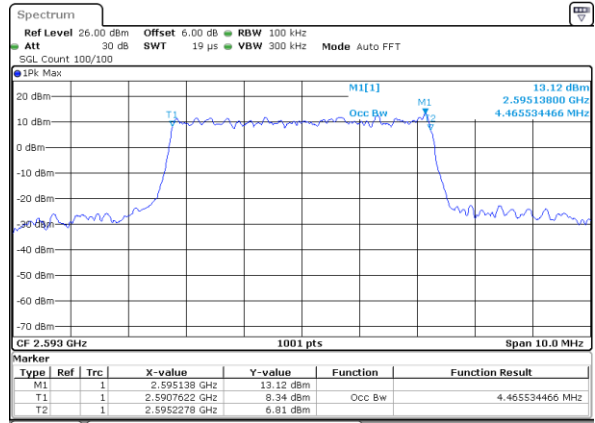
Date: 6 MAR 2020 12:04:36

Middle Channel / 5MHz / QPSK



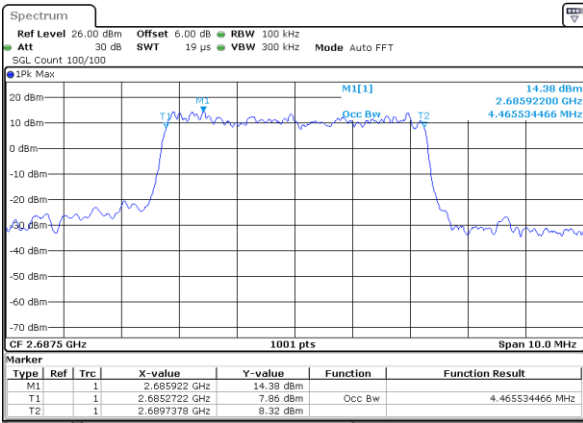
Date: 6 MAR 2020 12:04:56

Middle Channel / 5MHz / 16QAM



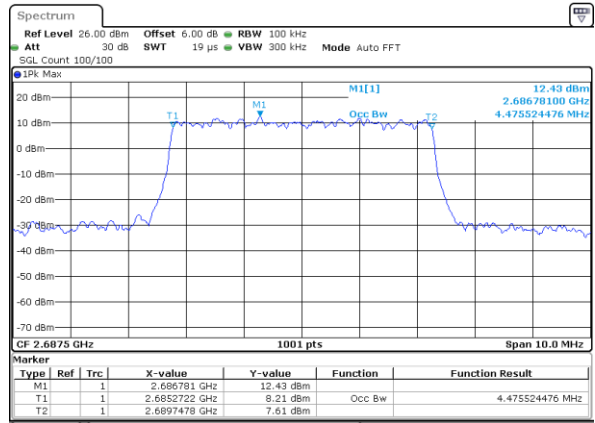
Date: 6 MAR 2020 12:05:16

Highest Channel / 5MHz / QPSK



Date: 6 MAR 2020 12:05:36

Highest Channel / 5MHz / 16QAM



Date: 6 MAR 2020 12:05:56