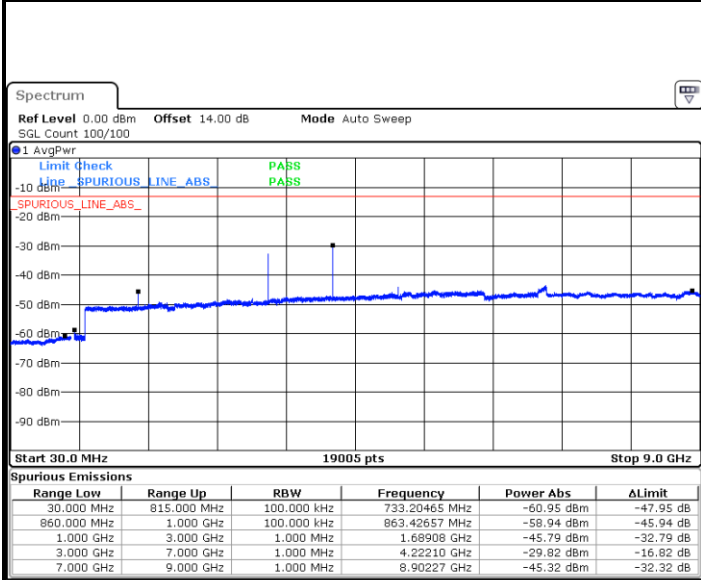




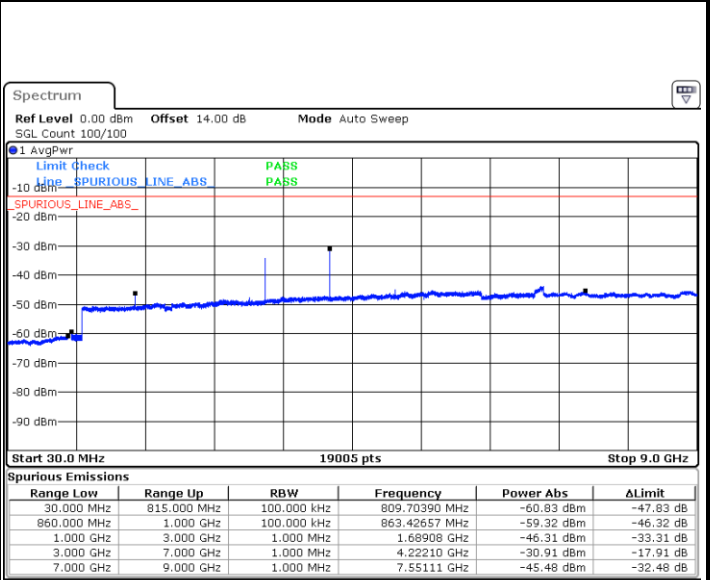
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 15.MAR.2020 13:27:49

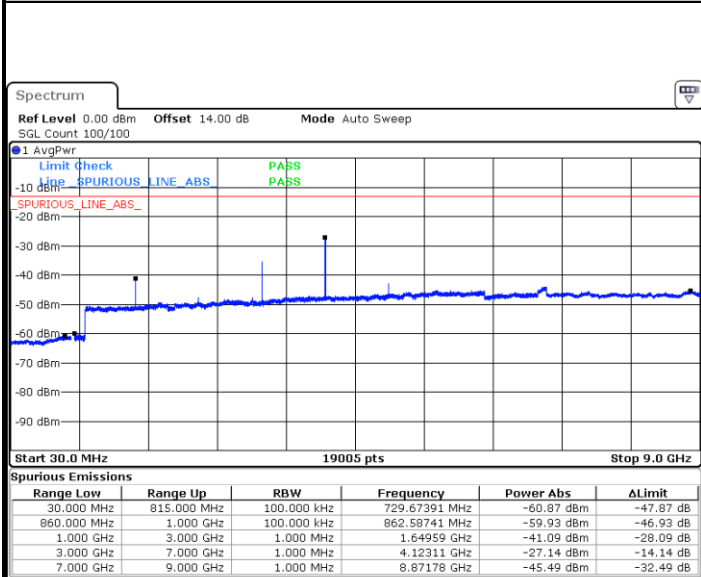
Highest Channel / 16QAM



Date: 15.MAR.2020 11:25:53

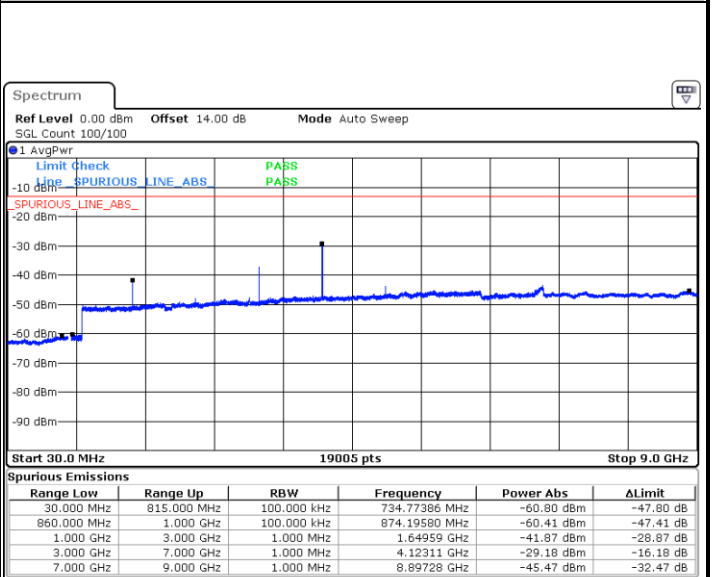
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 15.MAR.2020 13:37:12

Lowest Channel / 16QAM



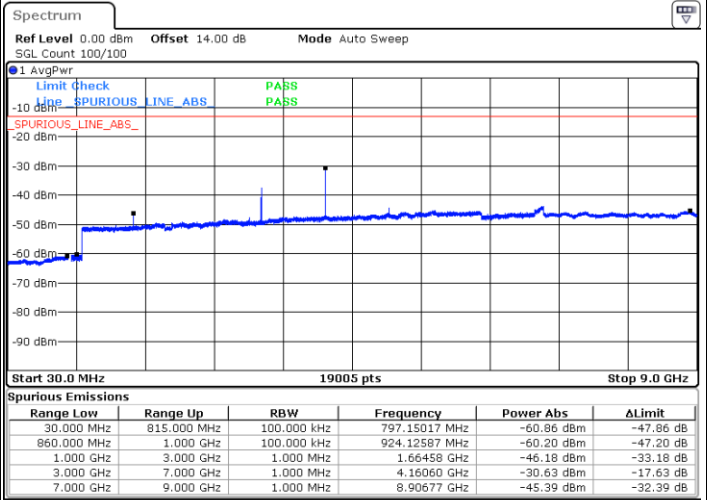
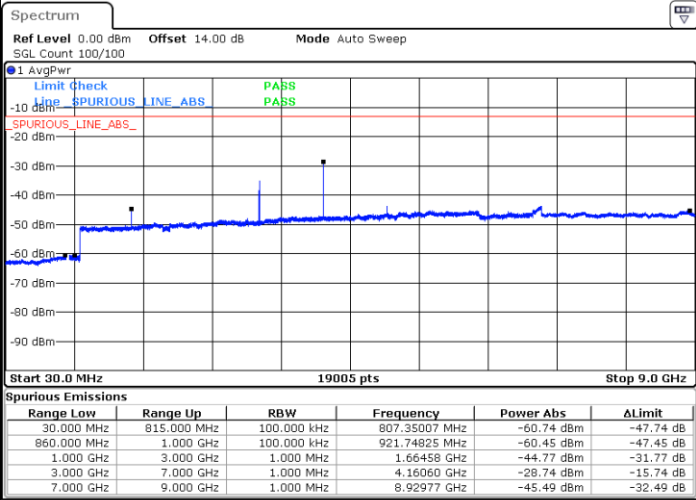
Date: 15.MAR.2020 11:30:13



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

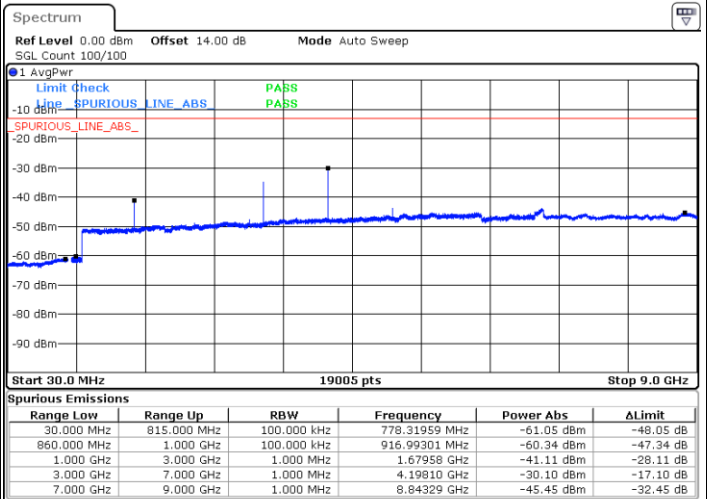
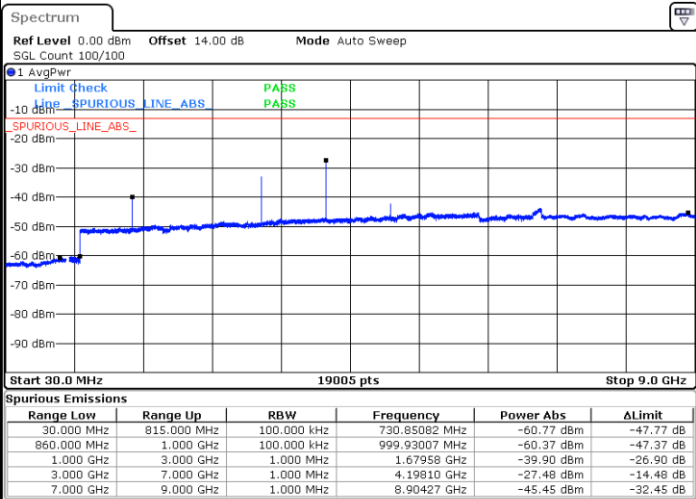


Date: 15.MAR.2020 13:38:12

Date: 15.MAR.2020 11:31:12

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.MAR.2020 13:51:54

Date: 15.MAR.2020 11:35:32



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0094	PASS
40	Normal Voltage	0.0053	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.



LTE Band 12

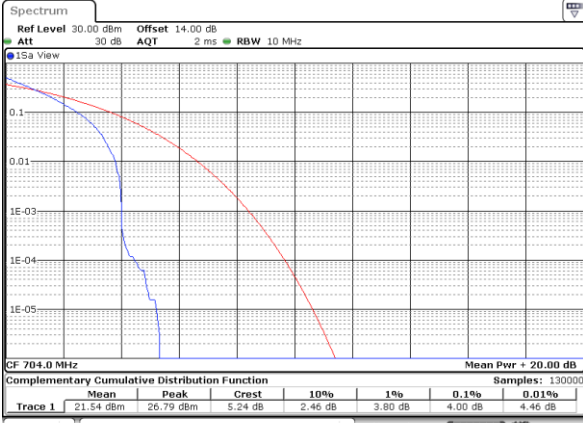
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.00	4.93	5.04	5.74	PASS
Middle CH	3.83	5.10	5.25	6.09	
Highest CH	4.41	5.01	5.39	5.80	



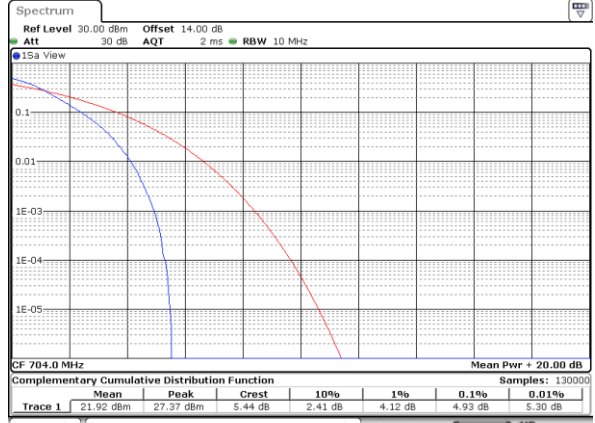
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 14 MAR 2020 23:15:54

Lowest Channel / Full RB



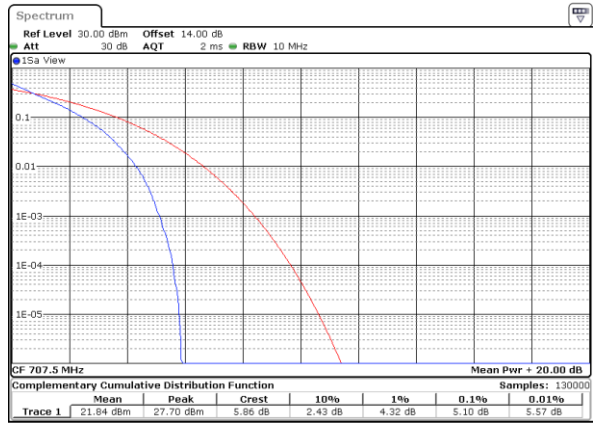
Date: 14 MAR 2020 23:15:44

Middle Channel / 1RB



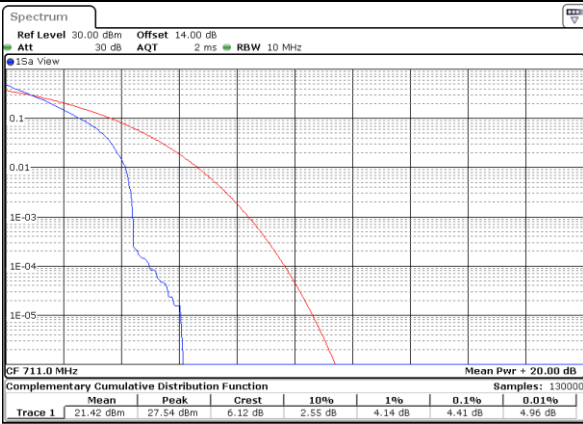
Date: 14 MAR 2020 23:16:05

Middle Channel / Full RB



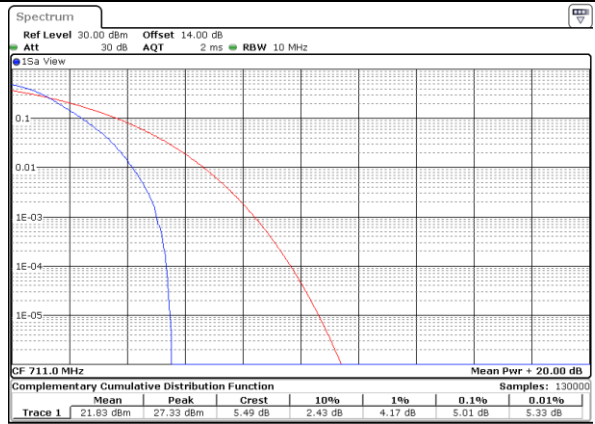
Date: 14 MAR 2020 23:16:16

Highest Channel / 1RB



Date: 14 MAR 2020 23:16:37

Highest Channel / Full RB

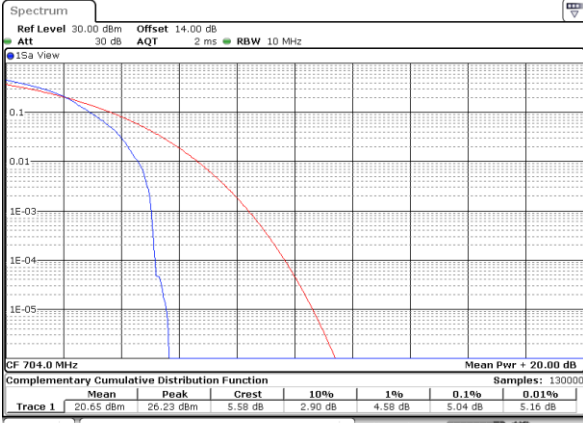


Date: 14 MAR 2020 23:16:27



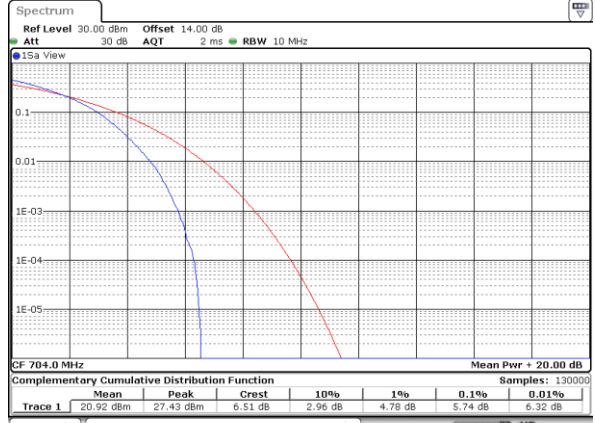
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 14 MAR 2020 23:14:50

Lowest Channel / Full RB



Date: 14 MAR 2020 23:14:30

Middle Channel / 1RB



Date: 14 MAR 2020 23:15:02

Middle Channel / Full RB



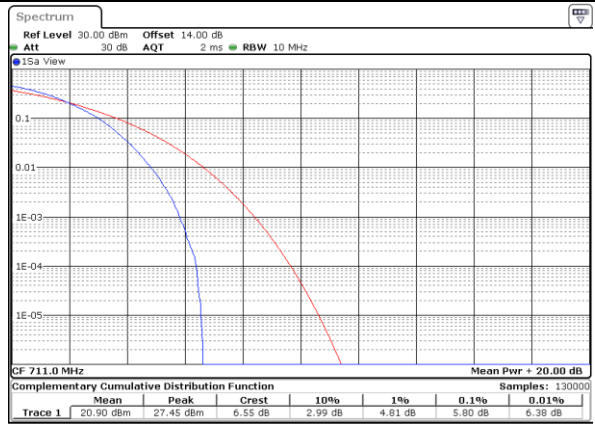
Date: 14 MAR 2020 23:15:12

Highest Channel / 1RB



Date: 14 MAR 2020 23:15:33

Highest Channel / Full RB



Date: 14 MAR 2020 23:15:23



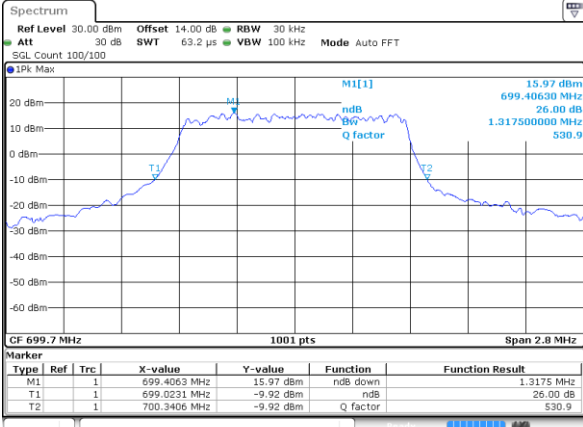
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.32	1.26	3.03	3.09	4.93	4.93	9.93	9.83				
Middle CH	1.24	1.26	2.99	3.06	5.50	4.86	10.01	9.93				
Highest CH	1.25	1.23	3.10	3.08	4.93	4.94	9.95	9.73				



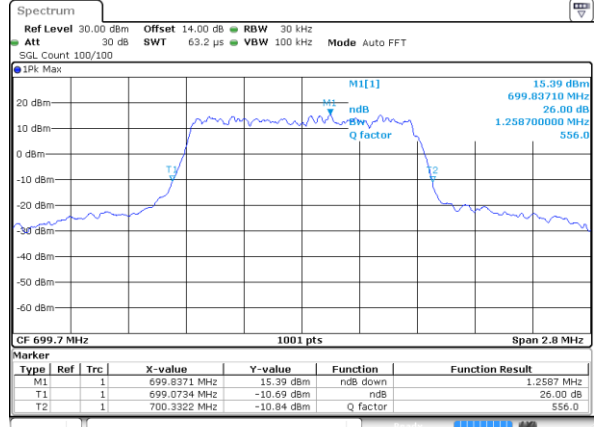
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



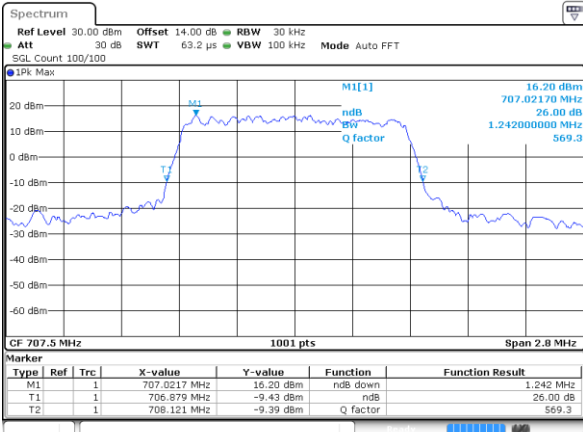
Date: 14 MAR 2020 22:48:49

Lowest Channel / 1.4MHz / 16QAM



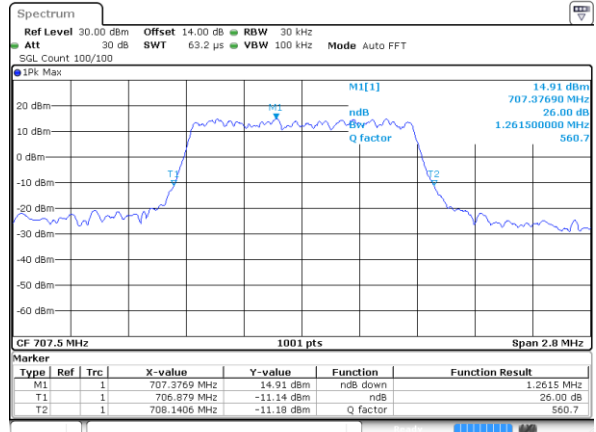
Date: 14 MAR 2020 22:48:38

Middle Channel / 1.4MHz / QPSK



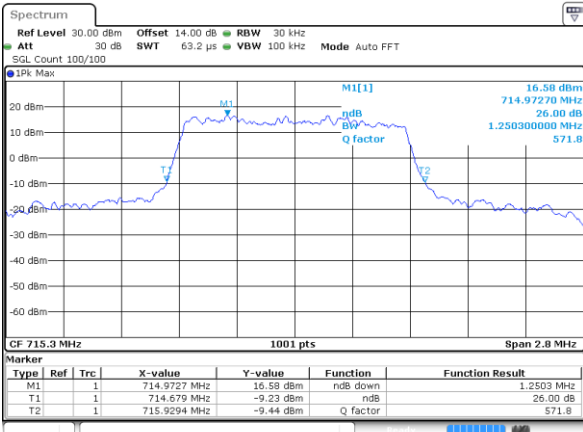
Date: 14 MAR 2020 22:54:26

Middle Channel / 1.4MHz / 16QAM



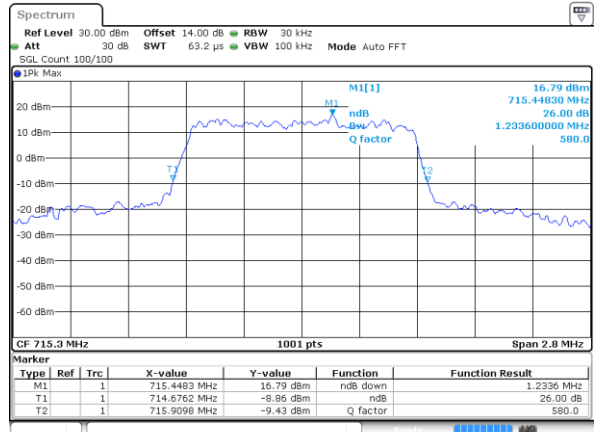
Date: 14 MAR 2020 22:54:37

Highest Channel / 1.4MHz / QPSK



Date: 14 MAR 2020 22:56:29

Highest Channel / 1.4MHz / 16QAM

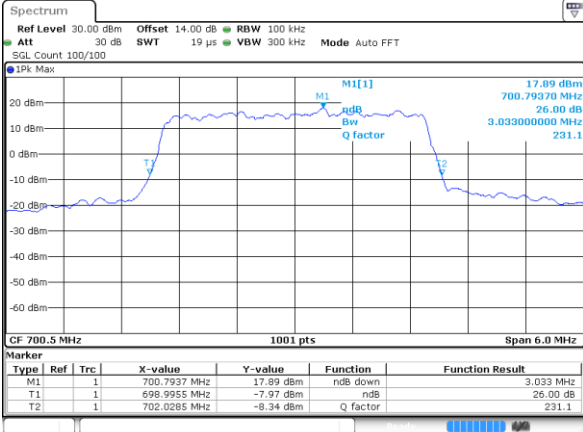


Date: 14 MAR 2020 22:56:18



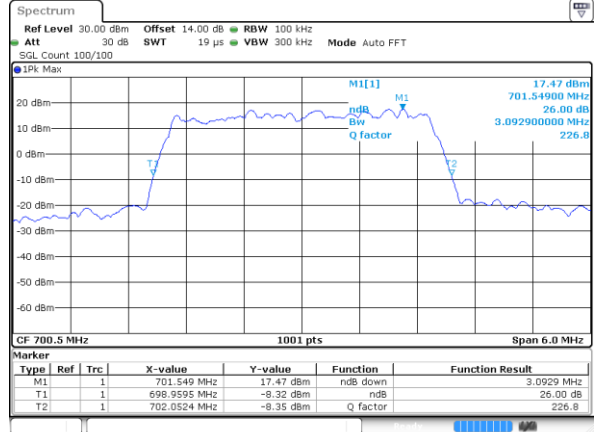
LTE Band 12

Lowest Channel / 3MHz / QPSK



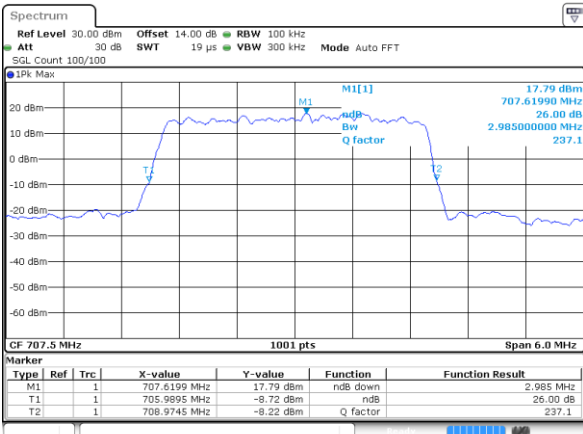
Date: 14 MAR 2020 22:08:25

Lowest Channel / 3MHz / 16QAM



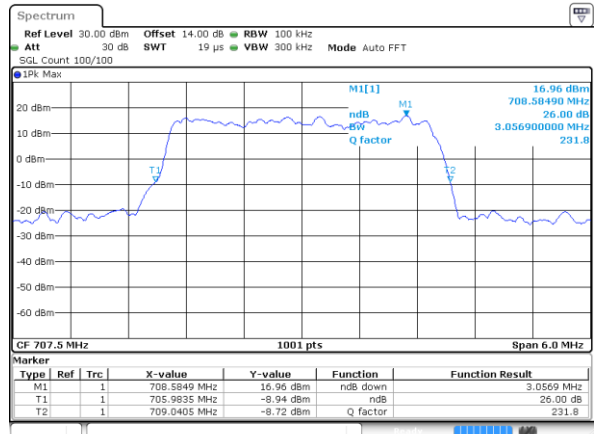
Date: 14 MAR 2020 22:08:14

Middle Channel / 3MHz / QPSK



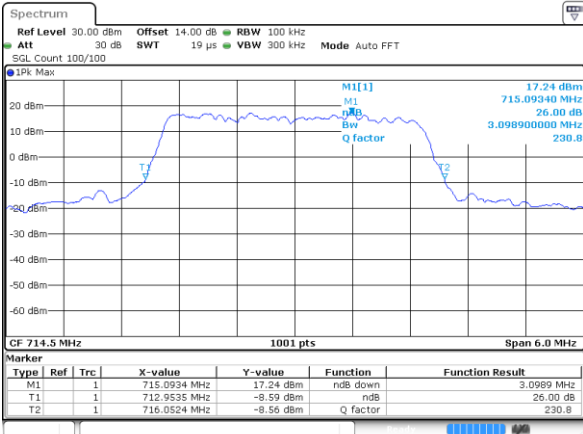
Date: 14 MAR 2020 22:14:02

Middle Channel / 3MHz / 16QAM



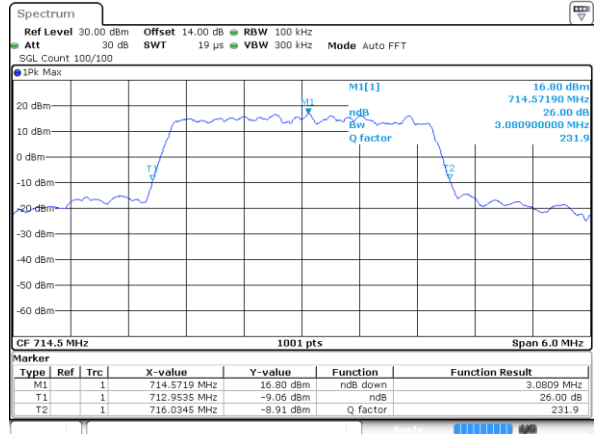
Date: 14 MAR 2020 22:14:13

Highest Channel / 3MHz / QPSK



Date: 14 MAR 2020 22:16:05

Highest Channel / 3MHz / 16QAM

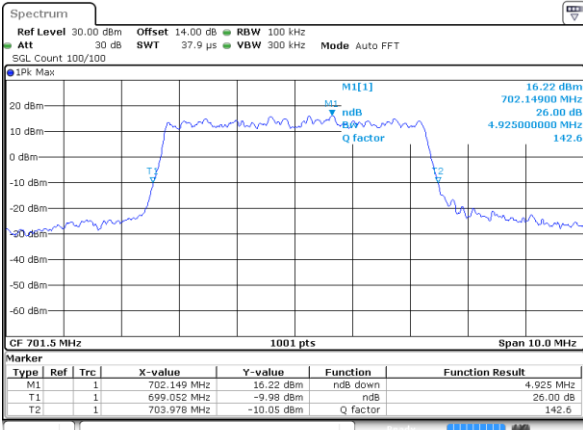


Date: 14 MAR 2020 22:15:54



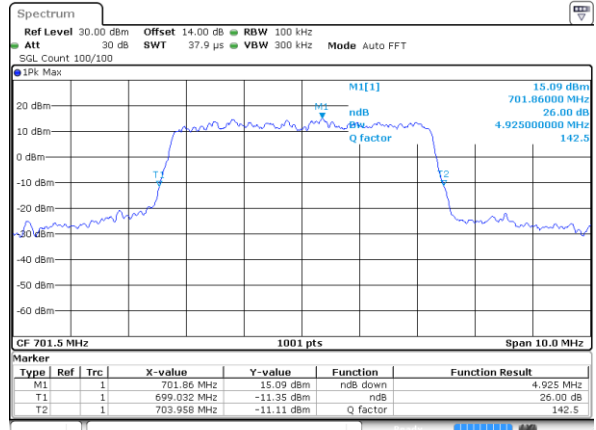
LTE Band 12

Lowest Channel / 5MHz / QPSK



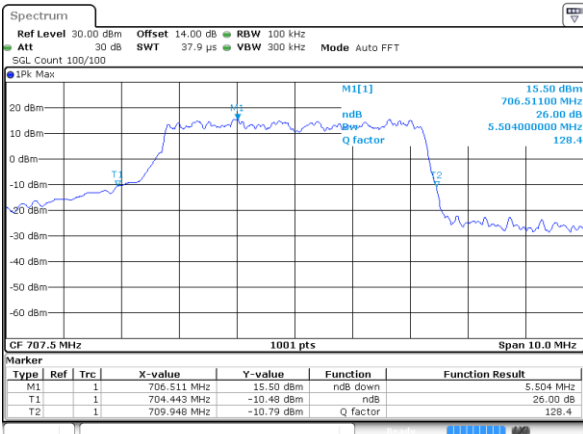
Date: 14 MAR 2020 22:21:53

Lowest Channel / 5MHz / 16QAM



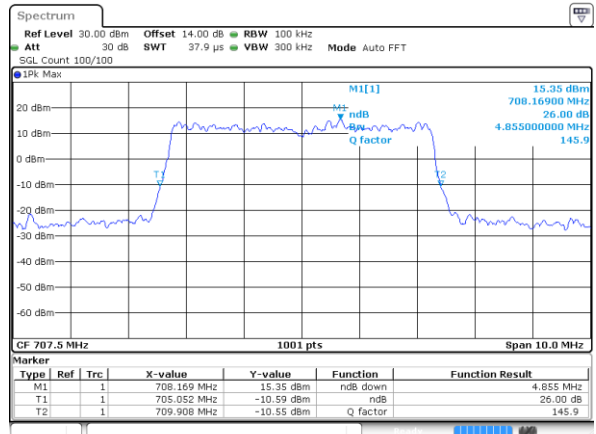
Date: 14 MAR 2020 22:21:42

Middle Channel / 5MHz / QPSK



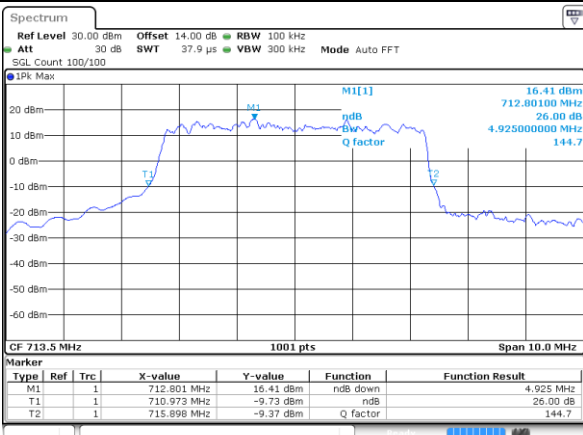
Date: 14 MAR 2020 22:27:30

Middle Channel / 5MHz / 16QAM



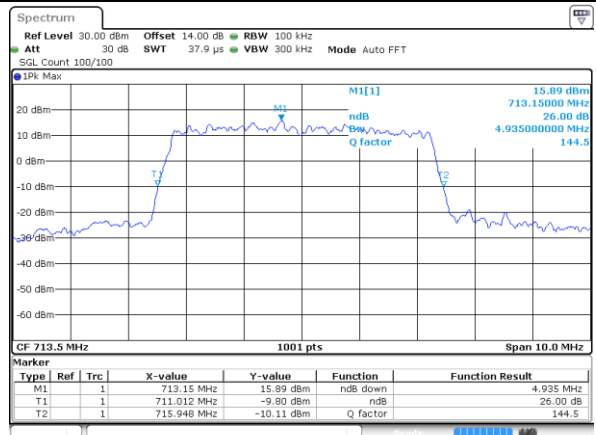
Date: 14 MAR 2020 22:27:41

Highest Channel / 5MHz / QPSK



Date: 14 MAR 2020 22:29:33

Highest Channel / 5MHz / 16QAM

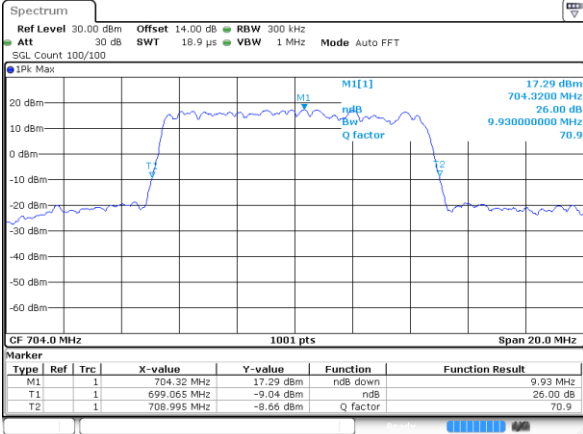


Date: 14 MAR 2020 22:29:22



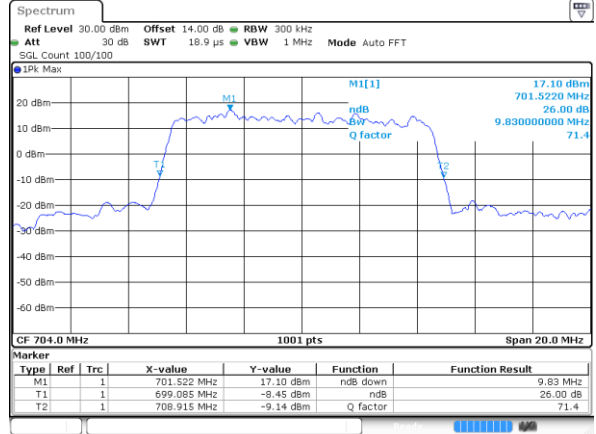
LTE Band 12

Lowest Channel / 10MHz / QPSK



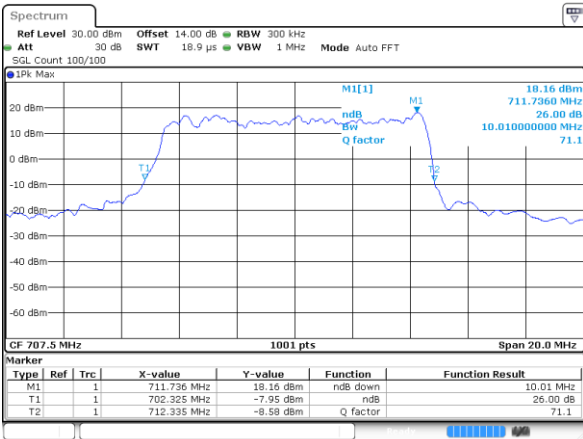
Date: 14 MAR 2020 22:35:21

Lowest Channel / 10MHz / 16QAM



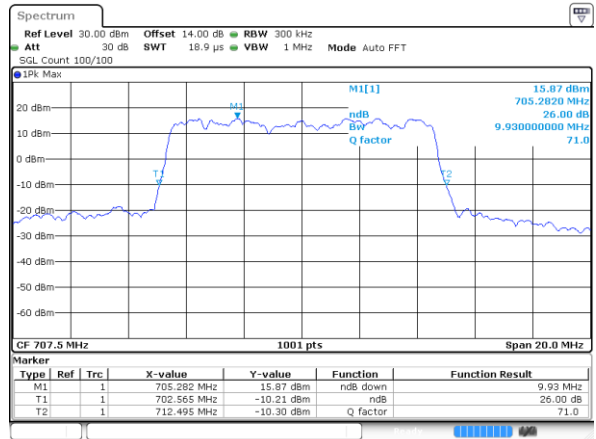
Date: 14 MAR 2020 22:35:10

Middle Channel / 10MHz / QPSK



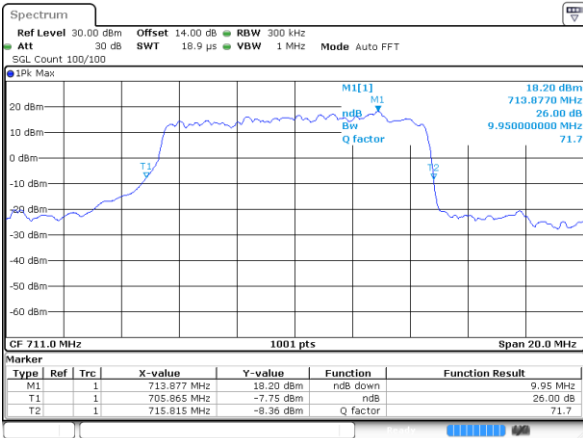
Date: 14 MAR 2020 22:40:58

Middle Channel / 10MHz / 16QAM



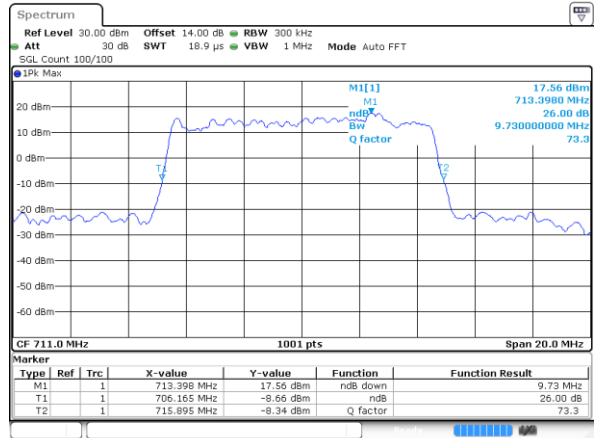
Date: 14 MAR 2020 22:41:09

Highest Channel / 10MHz / QPSK



Date: 14 MAR 2020 22:43:02

Highest Channel / 10MHz / 16QAM



Date: 14 MAR 2020 22:42:51



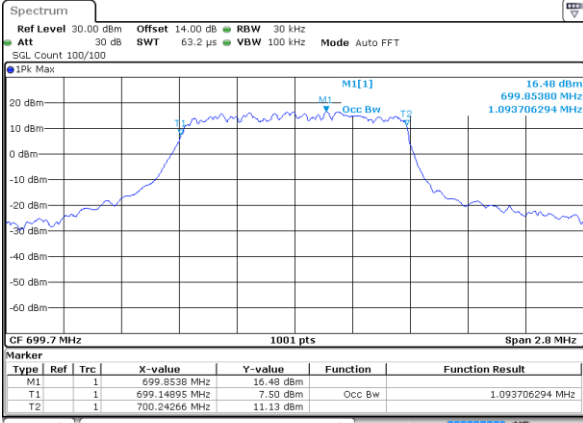
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.11	2.73	2.75	4.46	4.48	9.03	9.03				
Middle CH	1.09	1.09	2.73	2.72	4.51	4.51	9.07	9.05				
Highest CH	1.10	1.09	2.75	2.75	4.49	4.46	8.97	8.99				



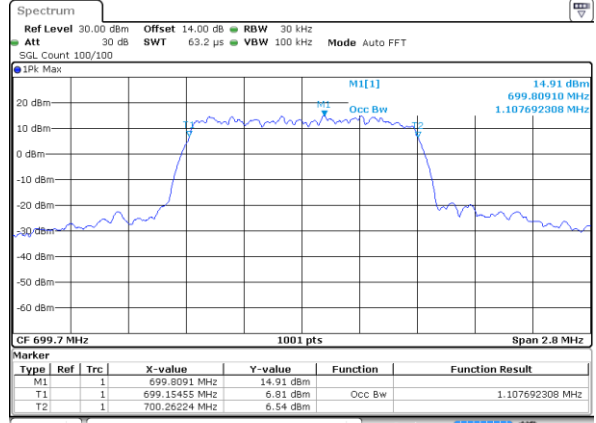
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



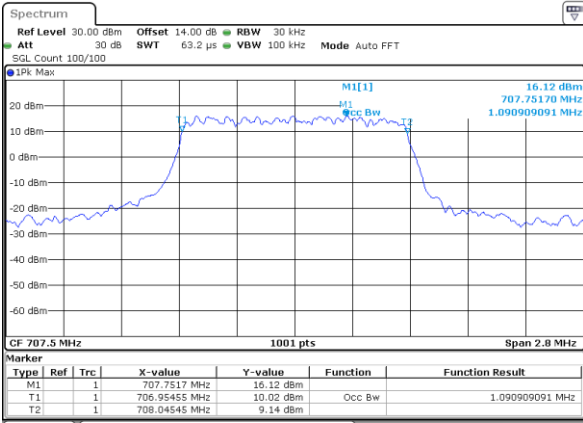
Date: 14 MAR 2020 22:48:17

Lowest Channel / 1.4MHz / 16QAM



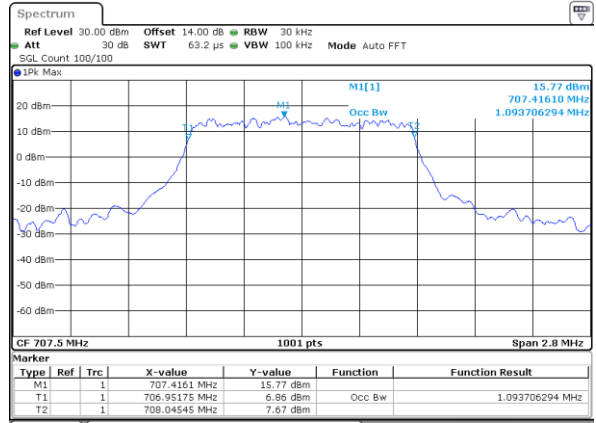
Date: 14 MAR 2020 22:48:27

Middle Channel / 1.4MHz / QPSK



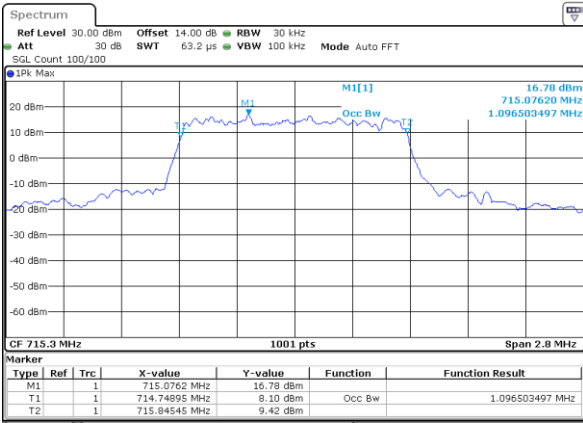
Date: 14 MAR 2020 22:54:15

Middle Channel / 1.4MHz / 16QAM



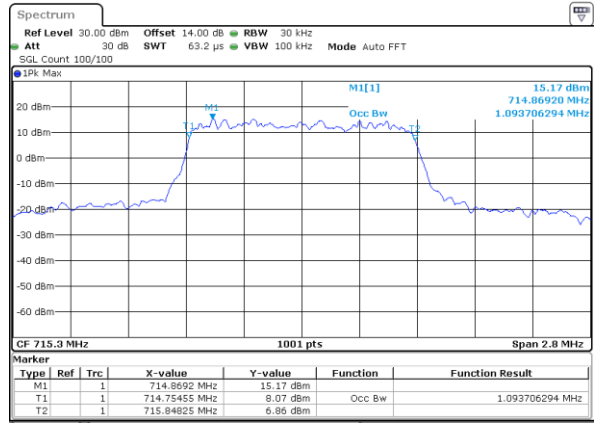
Date: 14 MAR 2020 22:54:04

Highest Channel / 1.4MHz / QPSK



Date: 14 MAR 2020 22:55:56

Highest Channel / 1.4MHz / 16QAM

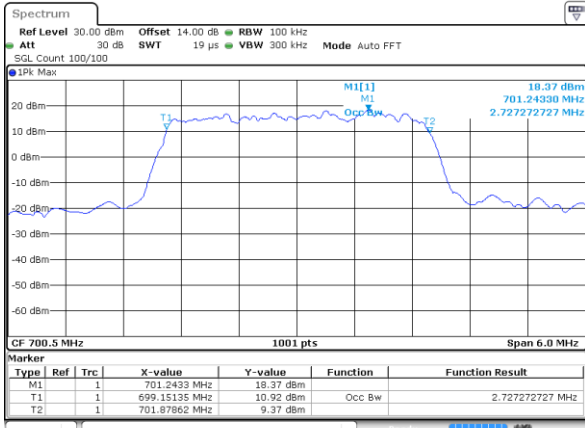


Date: 14 MAR 2020 22:56:07



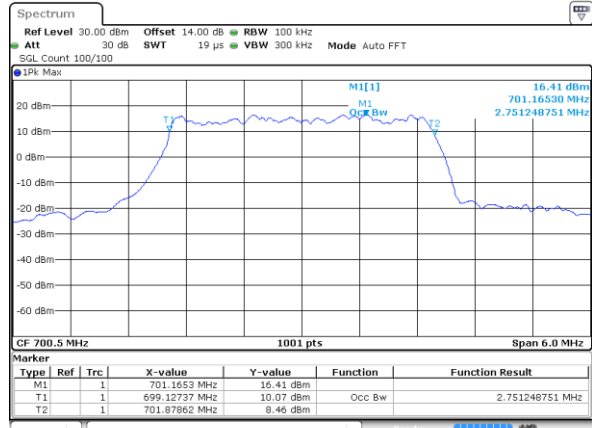
LTE Band 12

Lowest Channel / 3MHz / QPSK



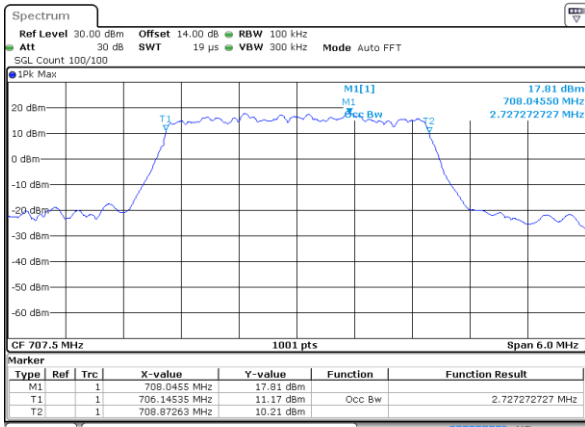
Date: 14 MAR 2020 22:07:52

Lowest Channel / 3MHz / 16QAM



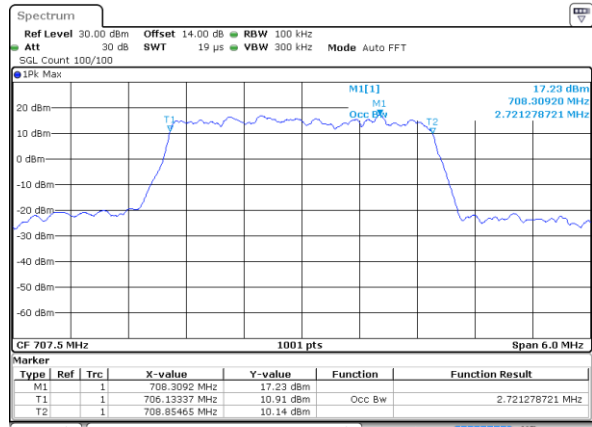
Date: 14 MAR 2020 22:08:03

Middle Channel / 3MHz / QPSK



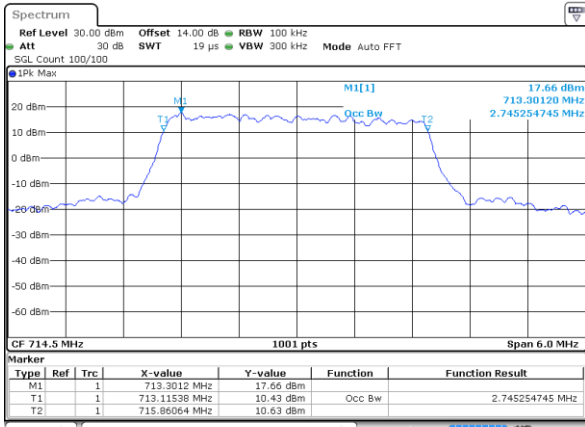
Date: 14 MAR 2020 22:13:51

Middle Channel / 3MHz / 16QAM



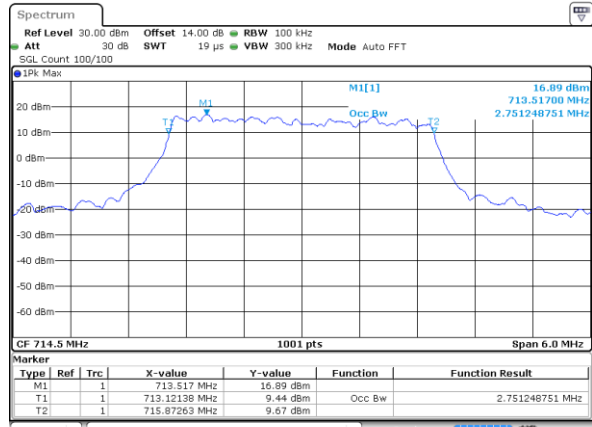
Date: 14 MAR 2020 22:13:40

Highest Channel / 3MHz / QPSK



Date: 14 MAR 2020 22:15:32

Highest Channel / 3MHz / 16QAM

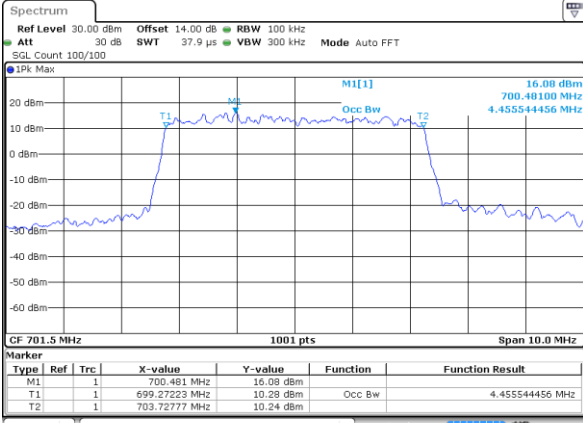


Date: 14 MAR 2020 22:15:43



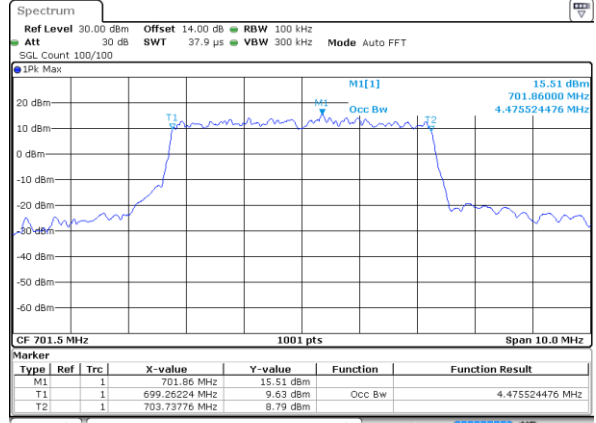
LTE Band 12

Lowest Channel / 5MHz / QPSK



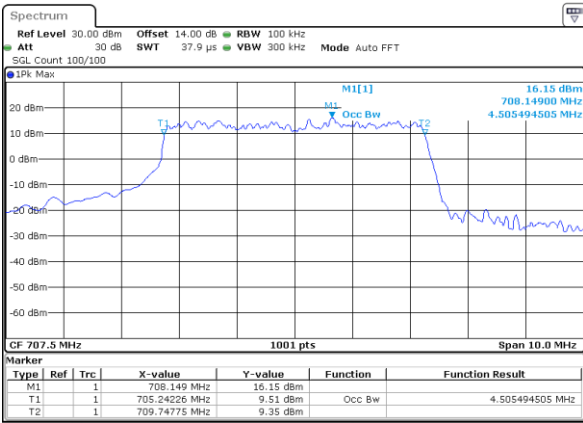
Date: 14 MAR 2020 22:21:20

Lowest Channel / 5MHz / 16QAM



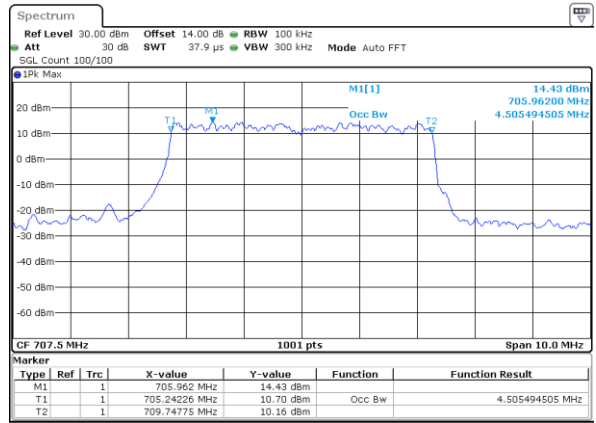
Date: 14 MAR 2020 22:21:31

Middle Channel / 5MHz / QPSK



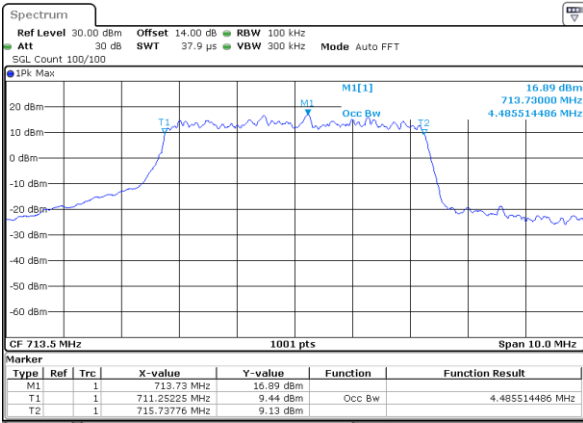
Date: 14 MAR 2020 22:27:19

Middle Channel / 5MHz / 16QAM



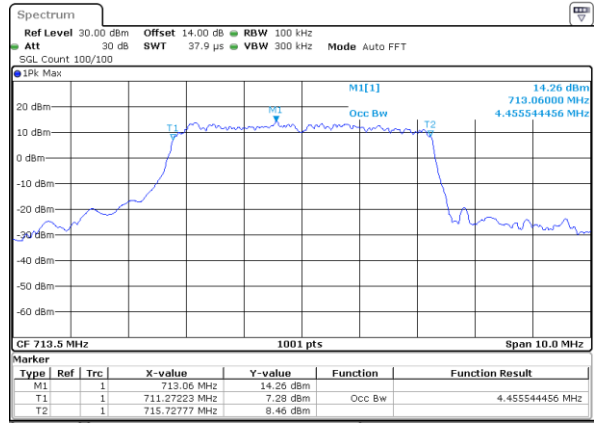
Date: 14 MAR 2020 22:27:08

Highest Channel / 5MHz / QPSK



Date: 14 MAR 2020 22:29:00

Highest Channel / 5MHz / 16QAM

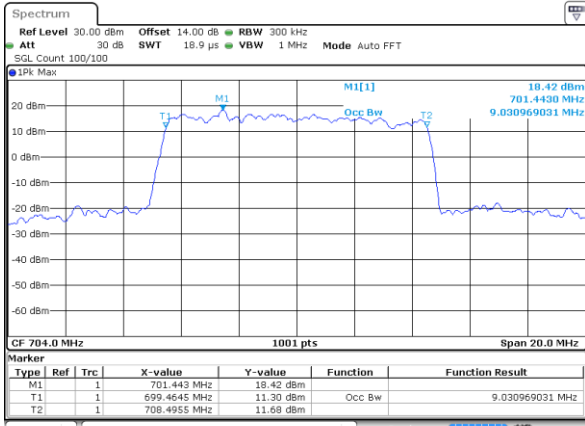


Date: 14 MAR 2020 22:29:11



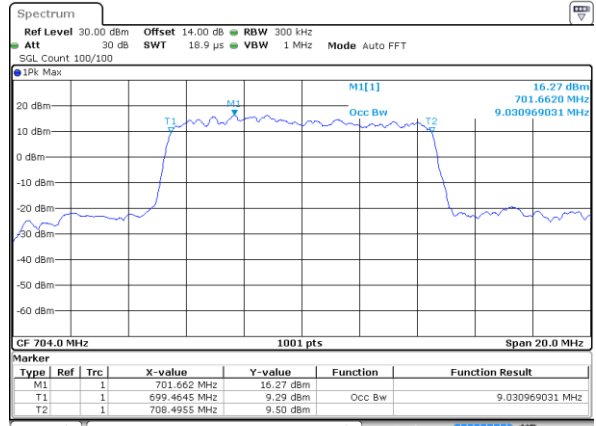
LTE Band 12

Lowest Channel / 10MHz / QPSK



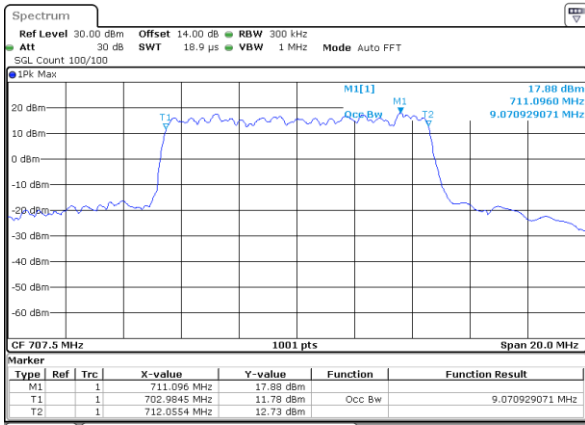
Date: 14 MAR 2020 22:34:48

Lowest Channel / 10MHz / 16QAM



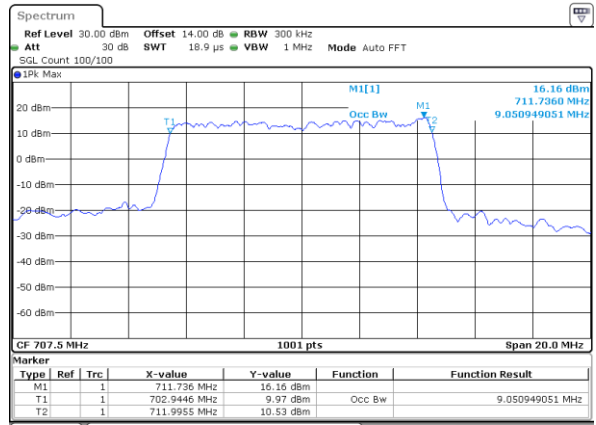
Date: 14 MAR 2020 22:34:59

Middle Channel / 10MHz / QPSK



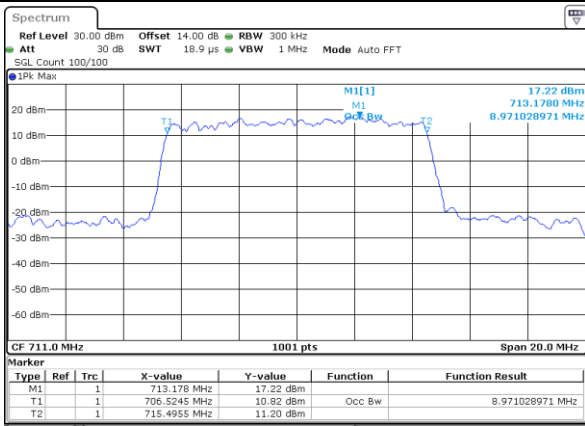
Date: 14 MAR 2020 22:40:47

Middle Channel / 10MHz / 16QAM



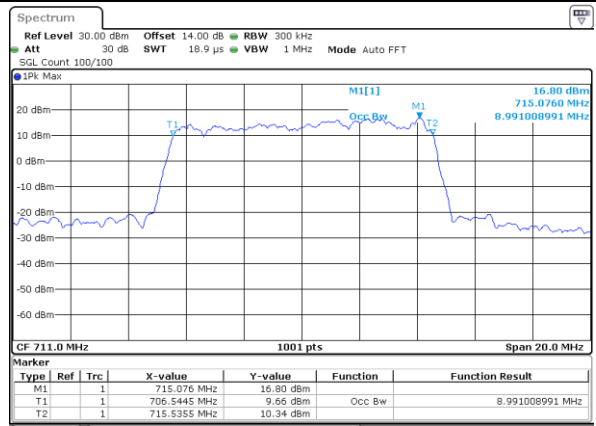
Date: 14 MAR 2020 22:40:37

Highest Channel / 10MHz / QPSK



Date: 14 MAR 2020 22:42:29

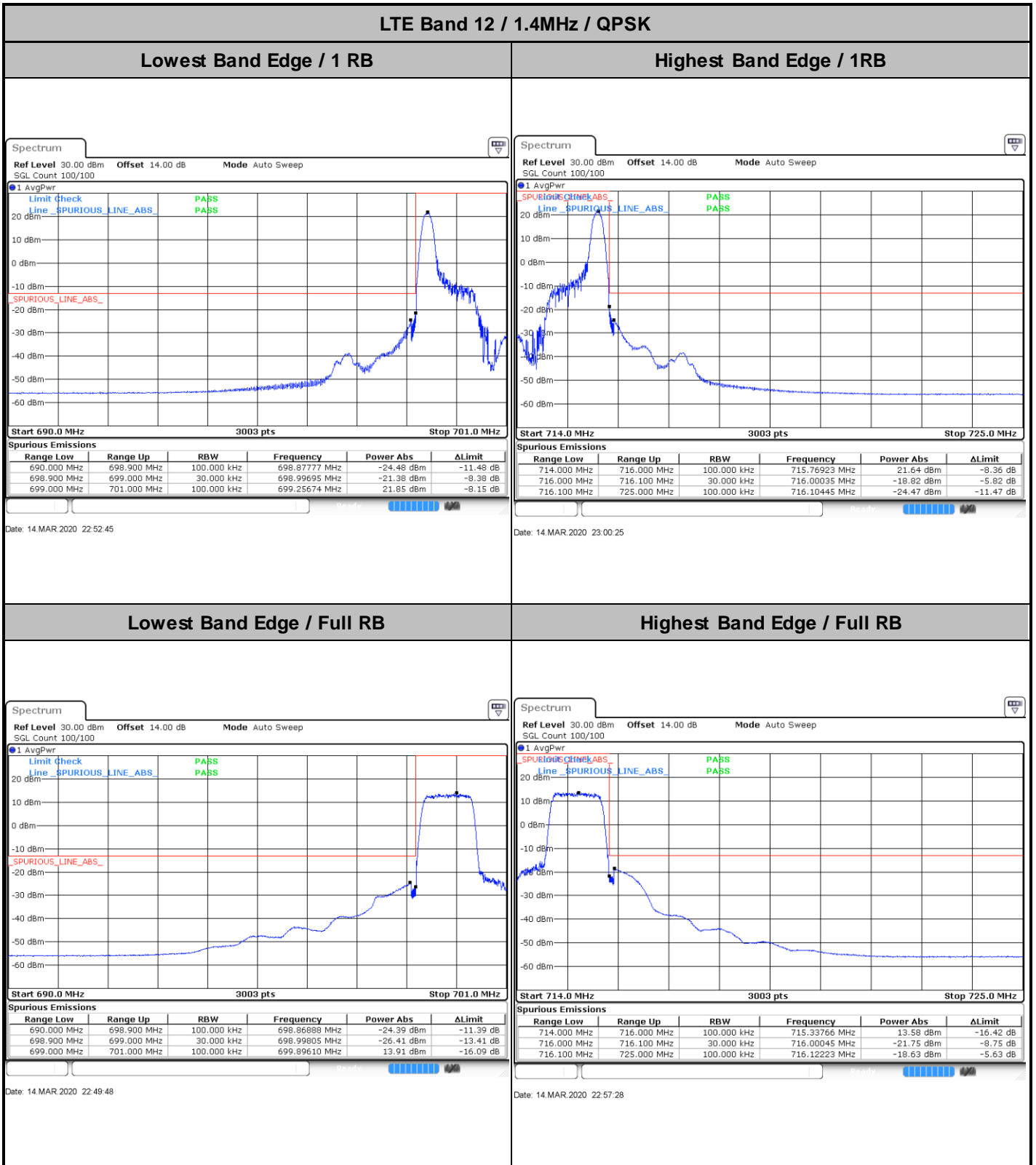
Highest Channel / 10MHz / 16QAM



Date: 14 MAR 2020 22:42:40



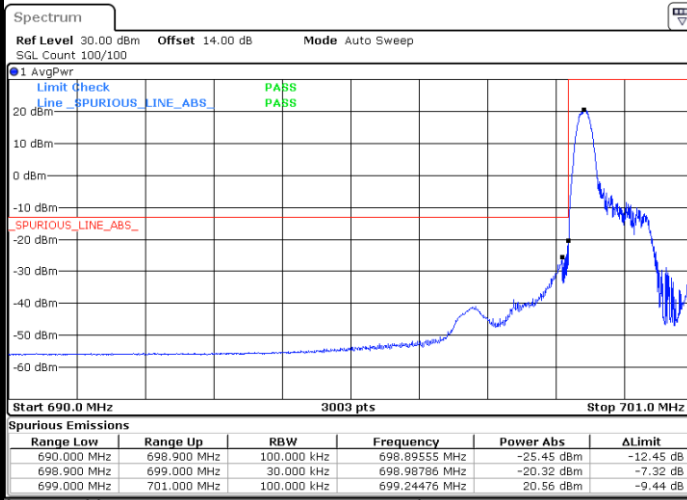
Conducted Band Edge





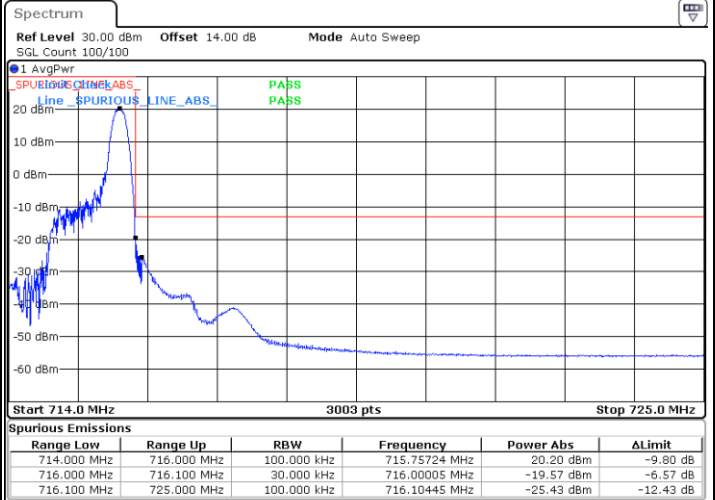
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



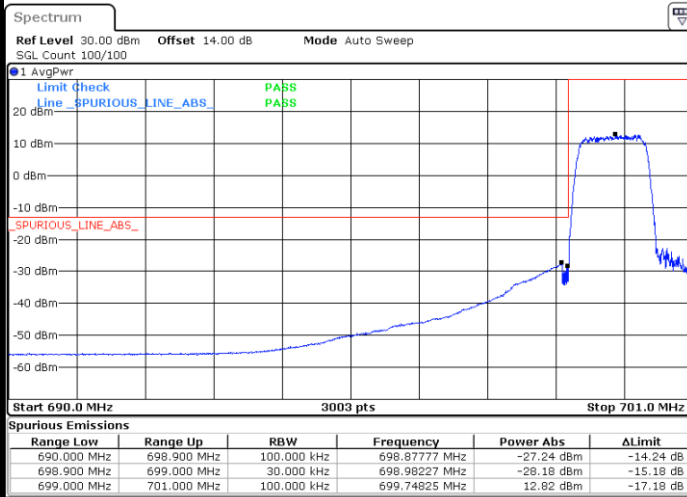
Date: 14.MAR.2020 22:51:46

Highest Band Edge / 1 RB



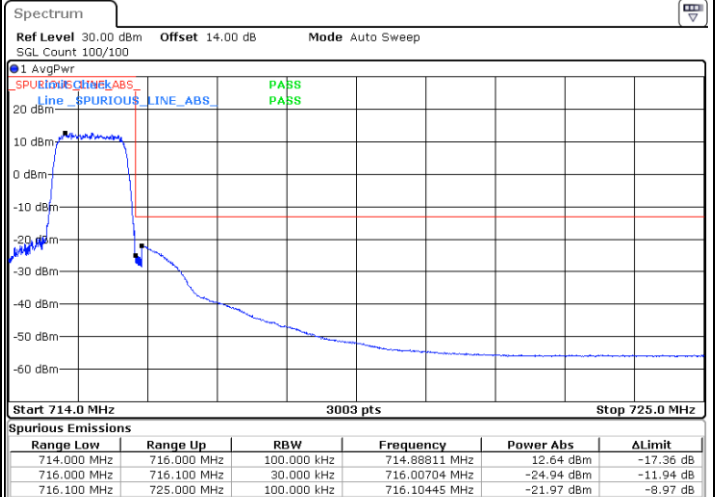
Date: 14.MAR.2020 22:59:26

Lowest Band Edge / Full RB



Date: 14.MAR.2020 22:50:47

Highest Band Edge / Full RB



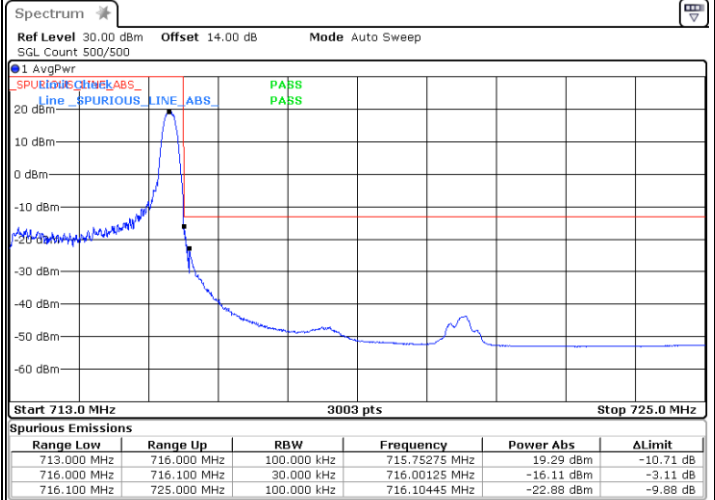
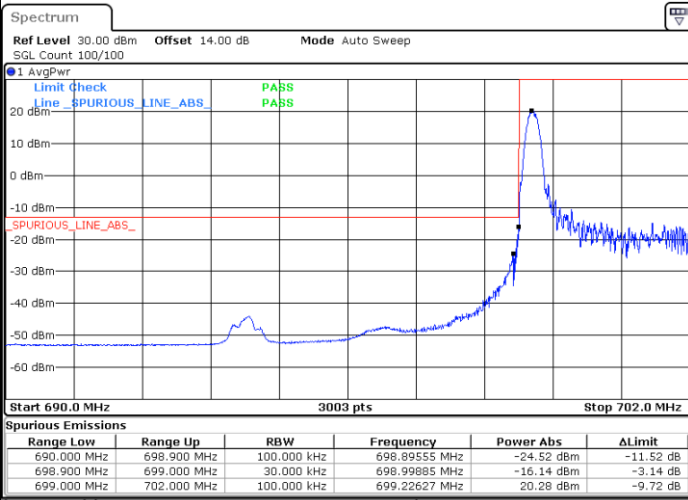
Date: 14.MAR.2020 22:58:27



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

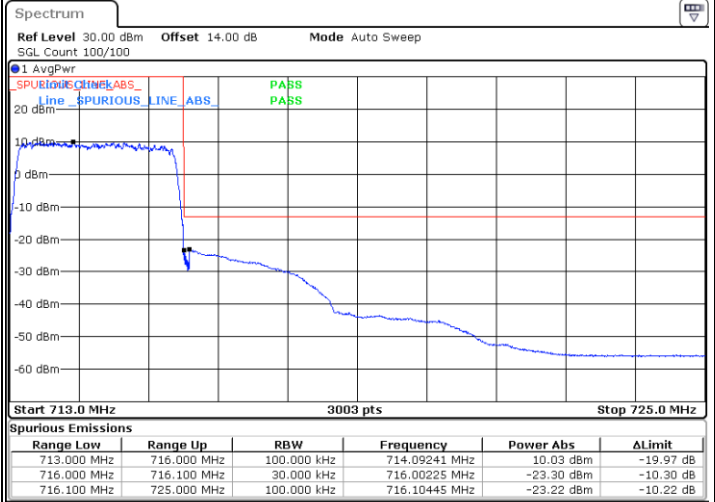
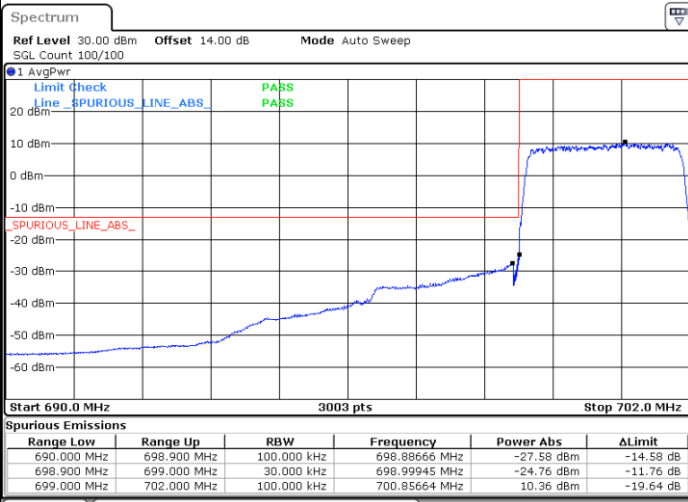


Date: 30.MAR.2020 20:53:51

Date: 30.MAR.2020 21:19:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



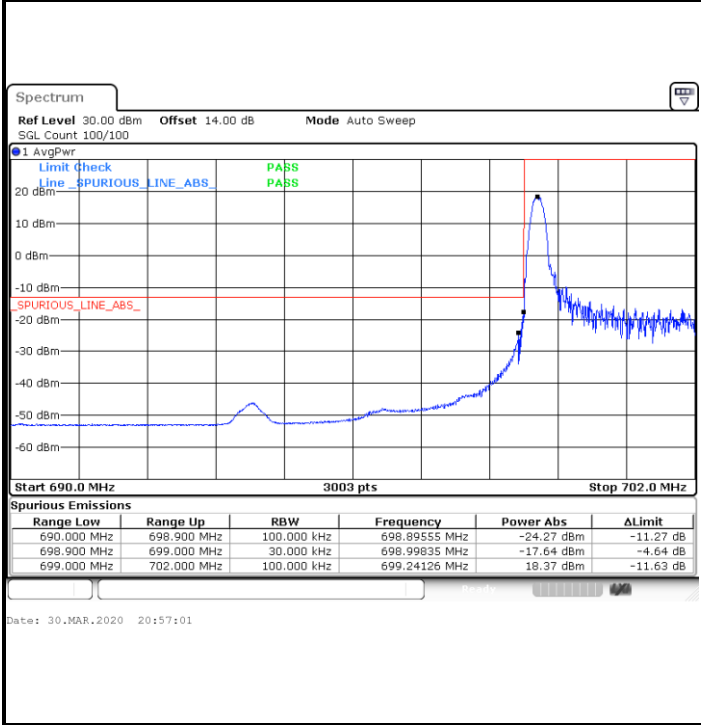
Date: 14.MAR.2020 22:09:24

Date: 14.MAR.2020 22:17:04

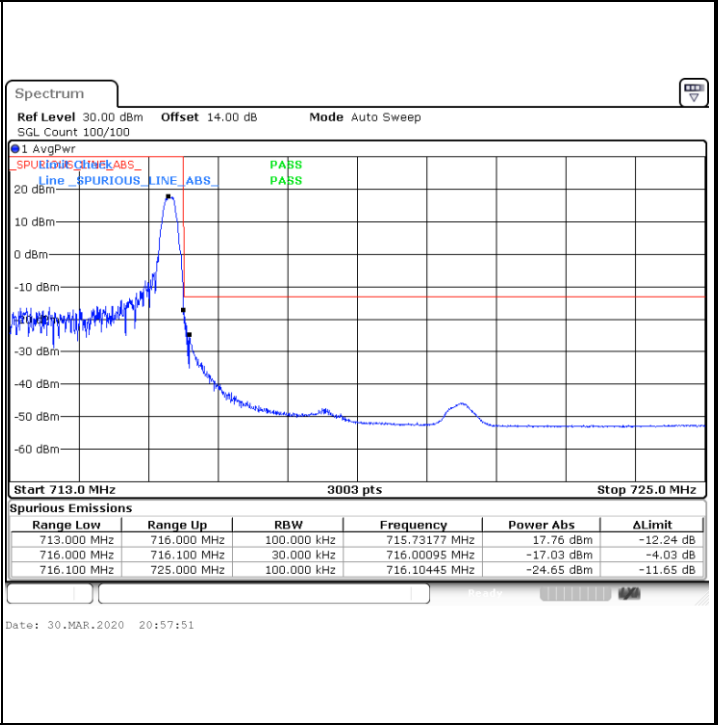


LTE Band 12 / 3MHz / 16QAM

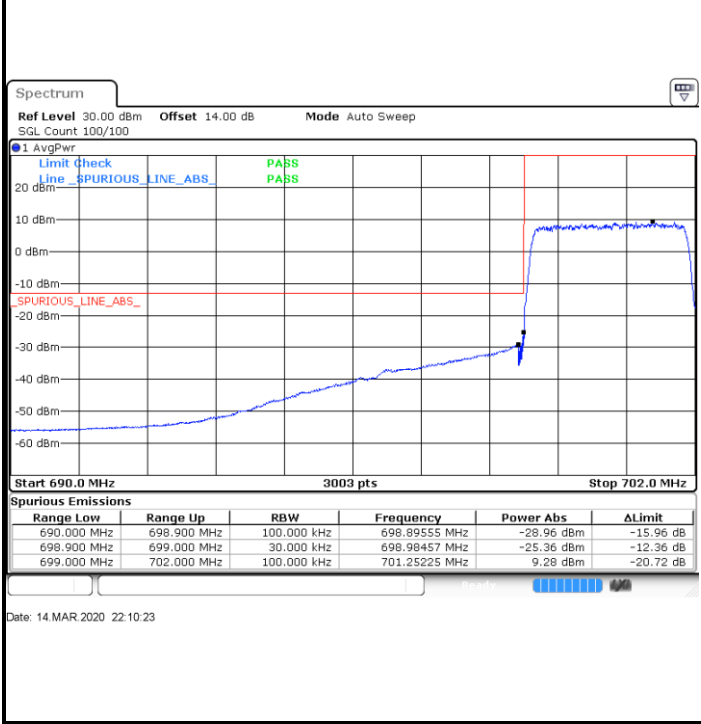
Lowest Band Edge / 1 RB



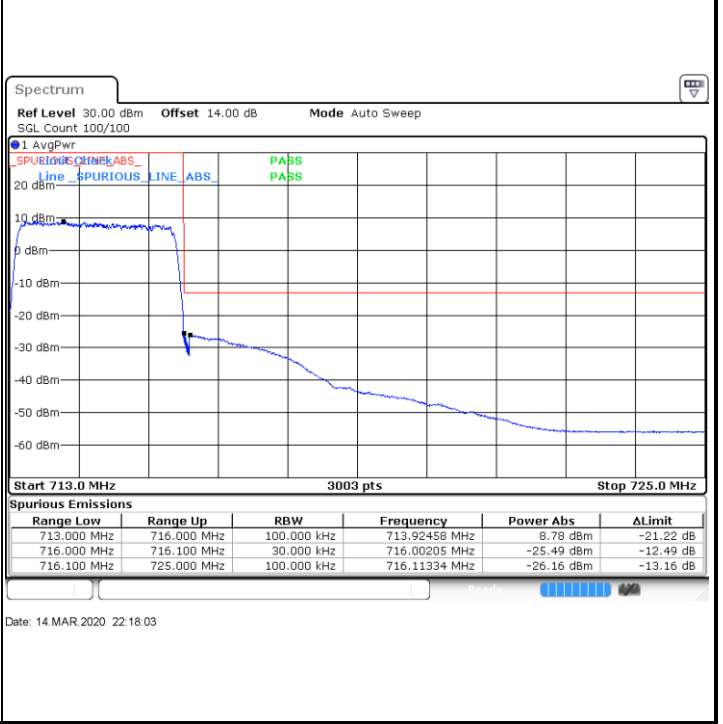
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



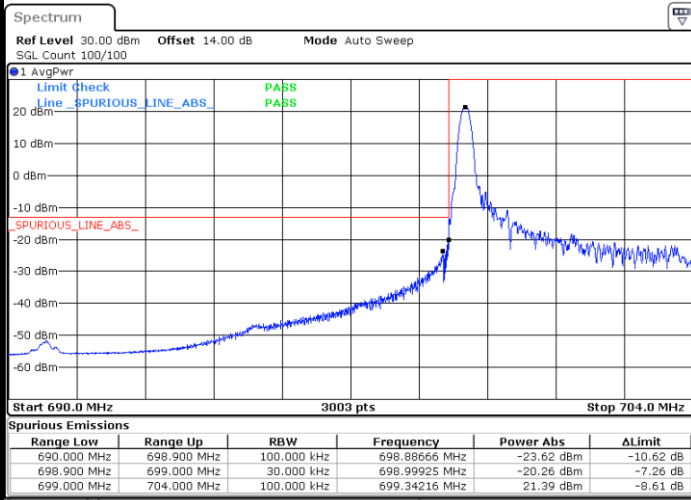
Highest Band Edge / Full RB





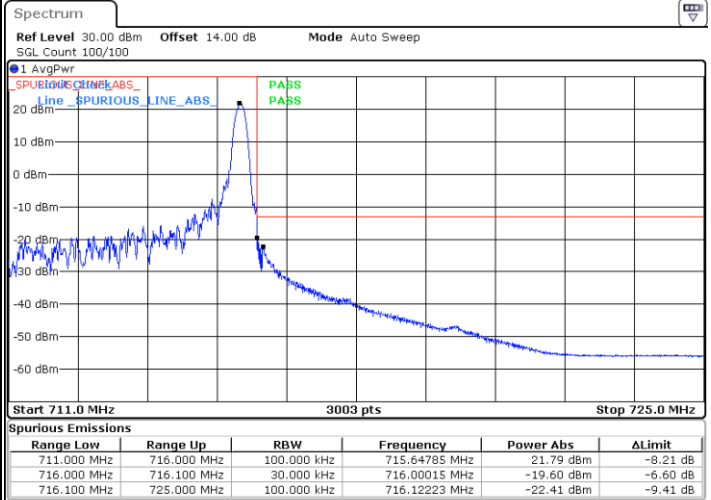
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



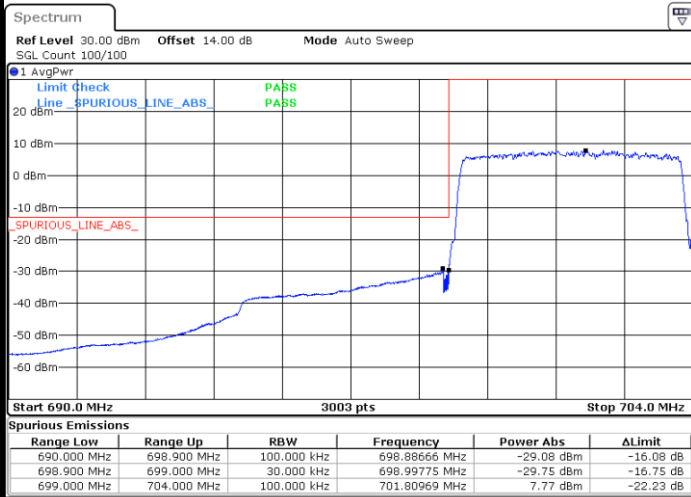
Date: 14.MAR.2020 22:25:48

Highest Band Edge / 1 RB



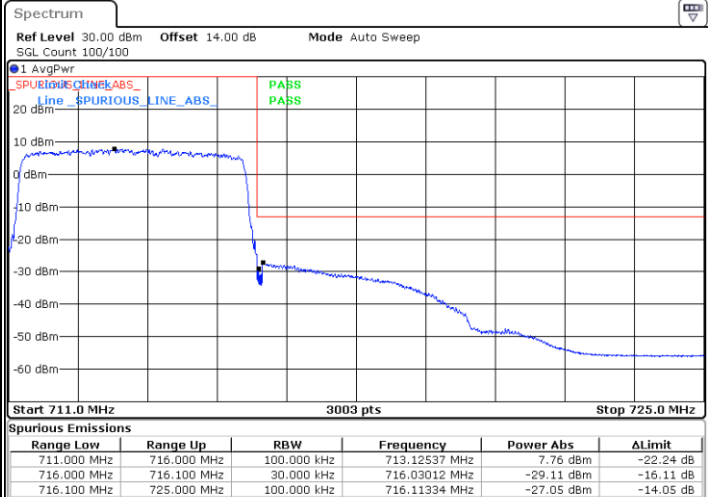
Date: 14.MAR.2020 22:32:30

Lowest Band Edge / Full RB



Date: 14.MAR.2020 22:22:52

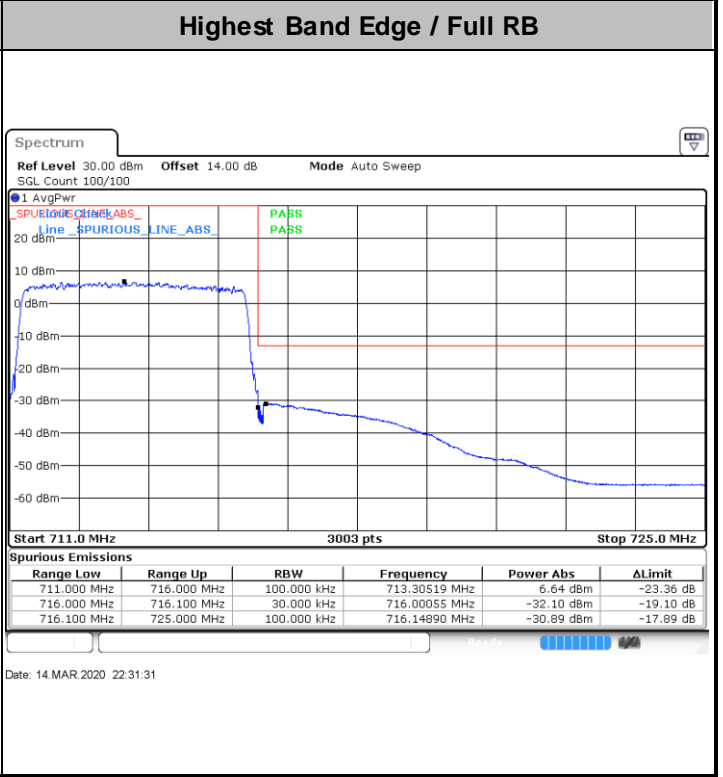
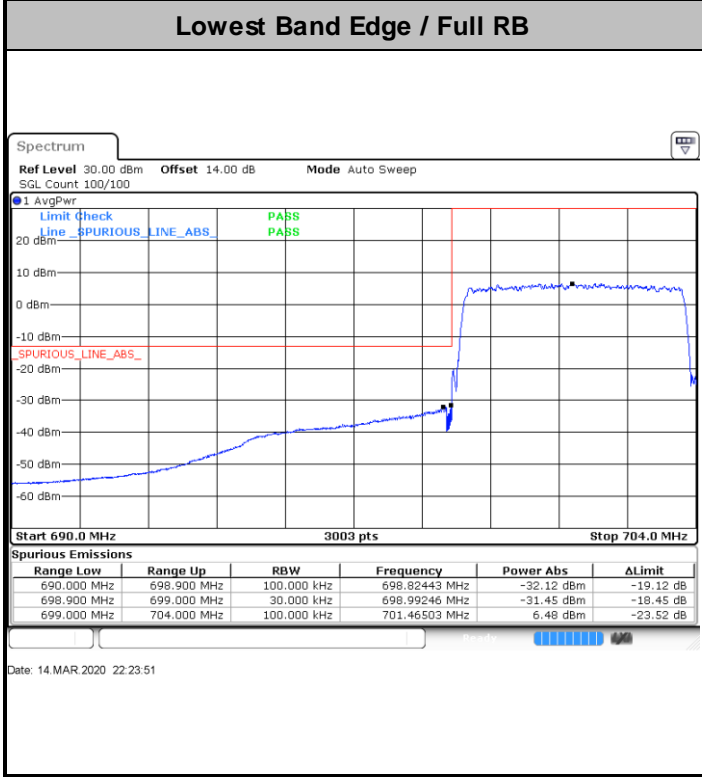
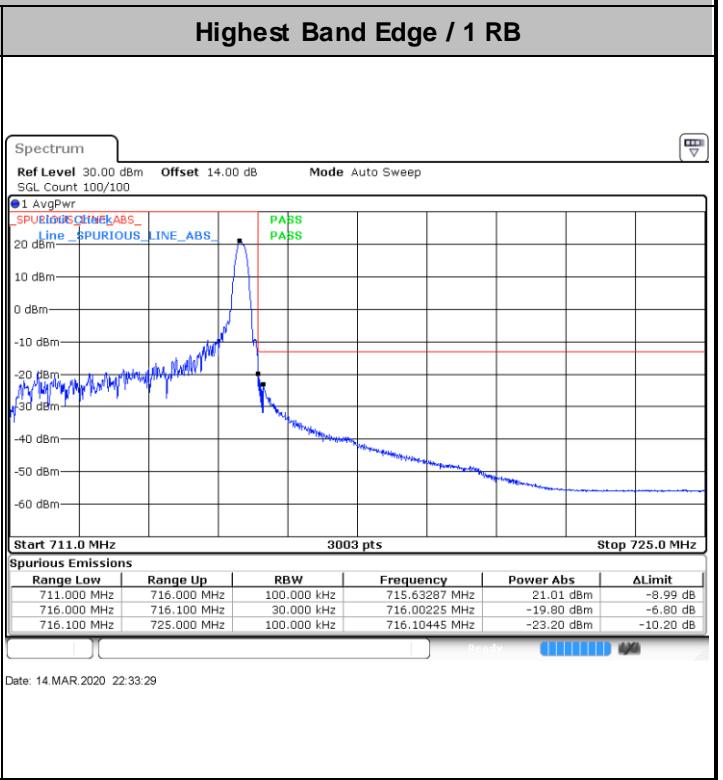
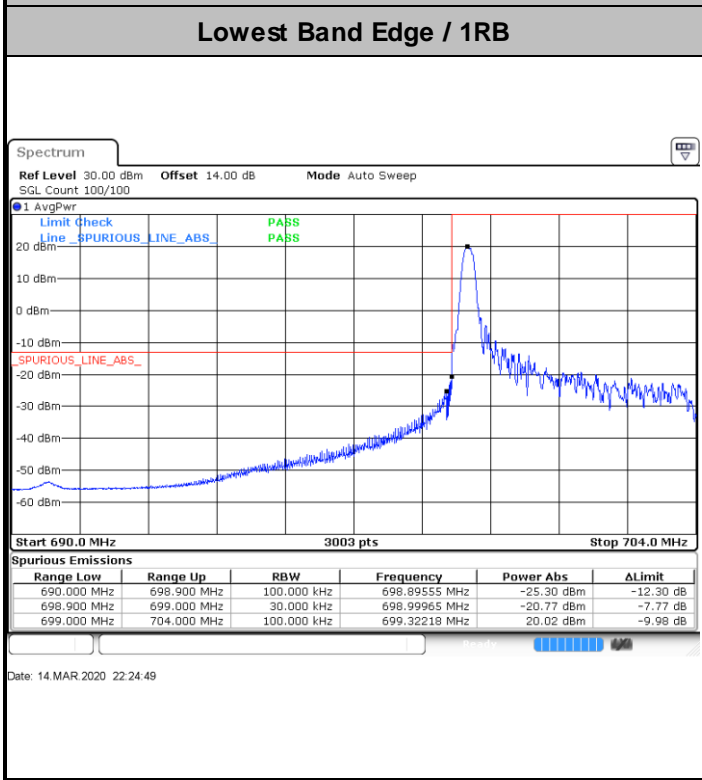
Highest Band Edge / Full RB



Date: 14.MAR.2020 22:30:32



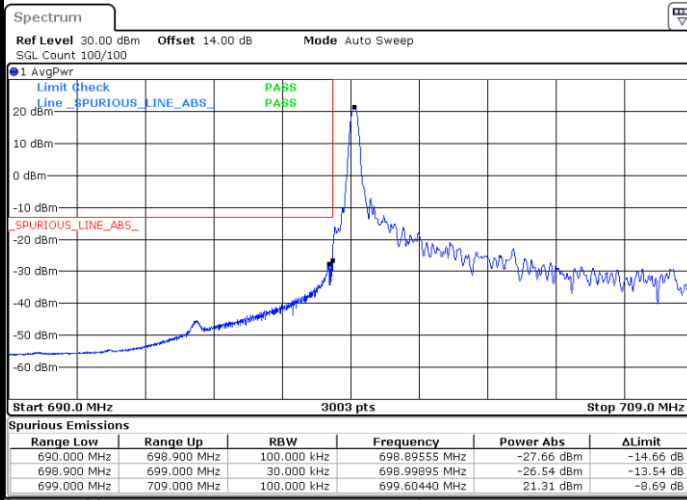
LTE Band 12 / 5MHz / 16QAM





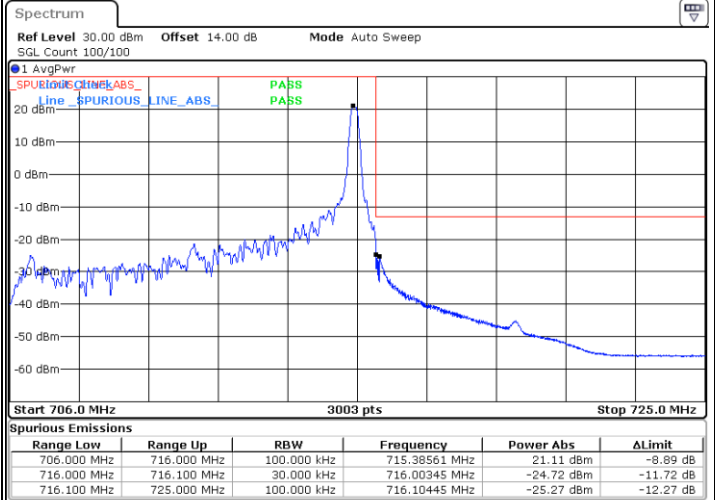
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



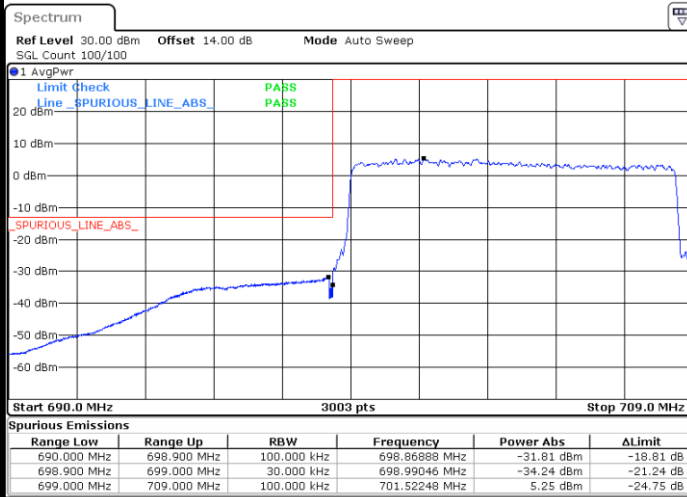
Date: 14.MAR.2020 22:39:17

Highest Band Edge / 1 RB



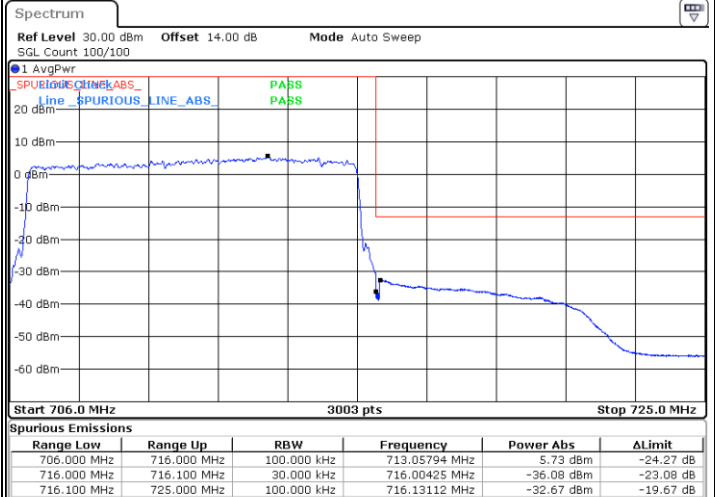
Date: 14.MAR.2020 22:46:57

Lowest Band Edge / Full RB



Date: 14.MAR.2020 22:36:20

Highest Band Edge / Full RB

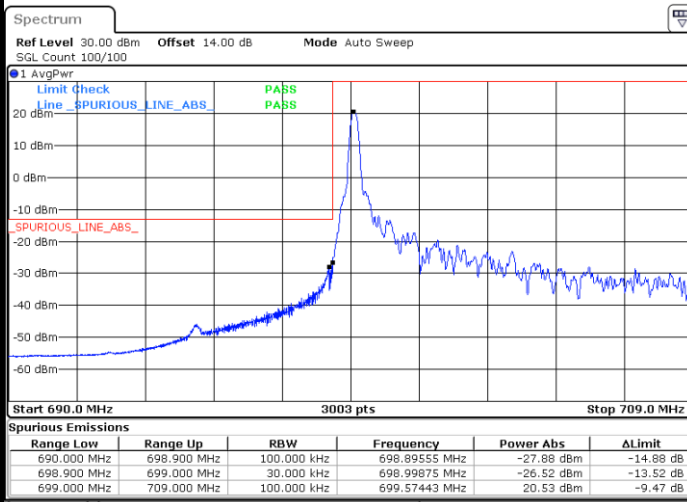


Date: 14.MAR.2020 22:44:01



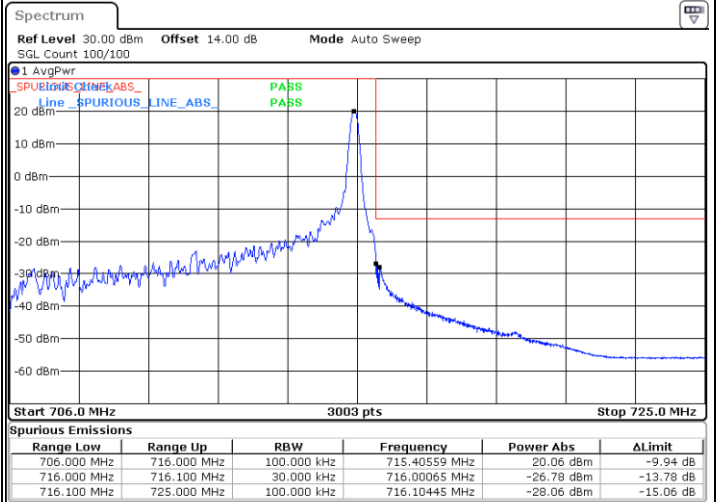
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



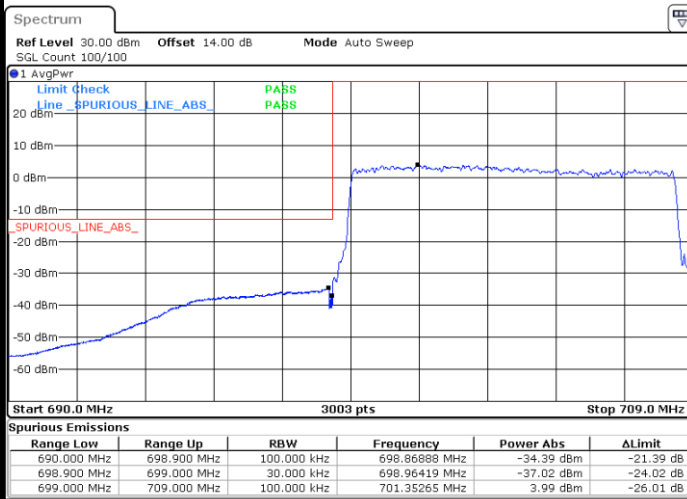
Date: 14.MAR.2020 22:38:18

Highest Band Edge / 1 RB



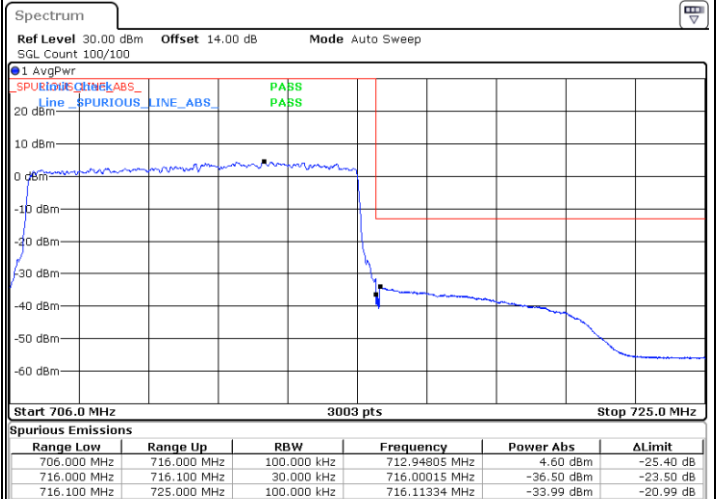
Date: 14.MAR.2020 22:45:58

Lowest Band Edge / Full RB



Date: 14.MAR.2020 22:37:19

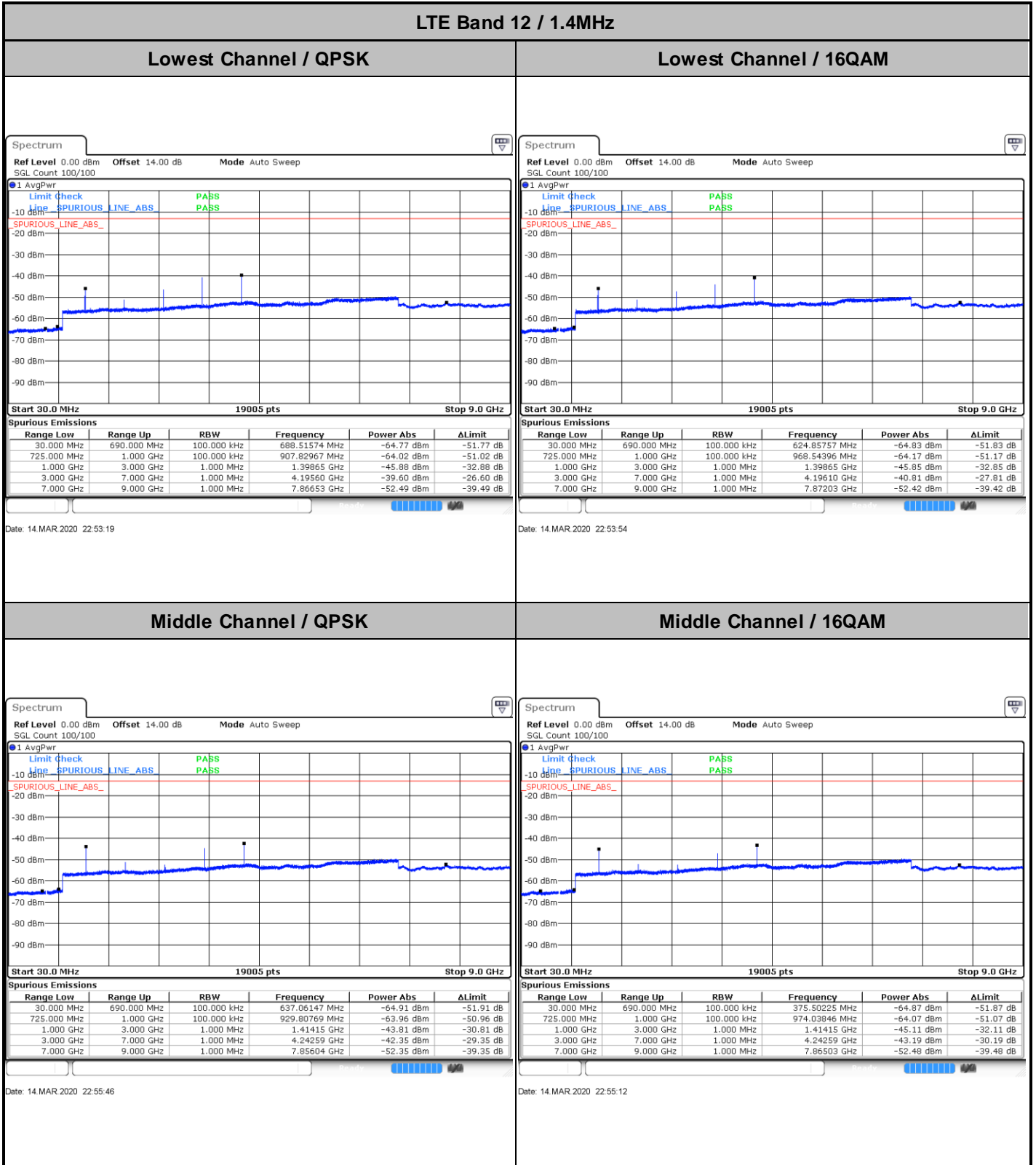
Highest Band Edge / Full RB



Date: 14.MAR.2020 22:44:59



Conducted Spurious Emission

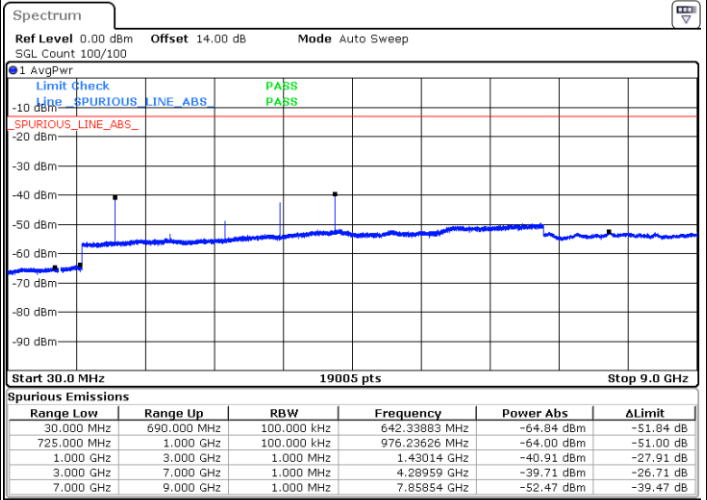
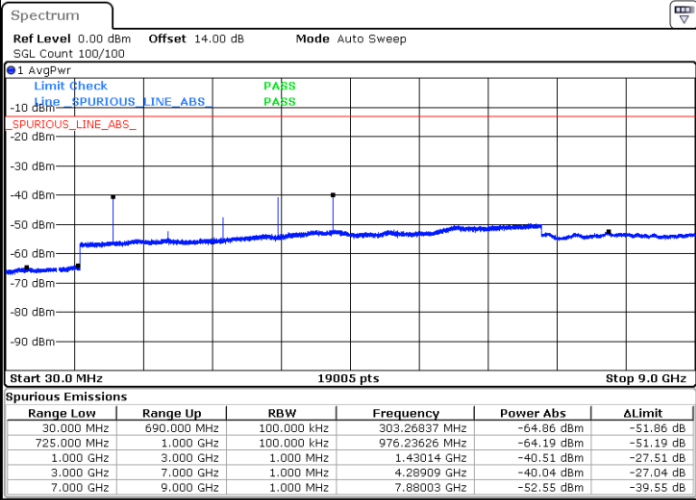




LTE Band 12 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



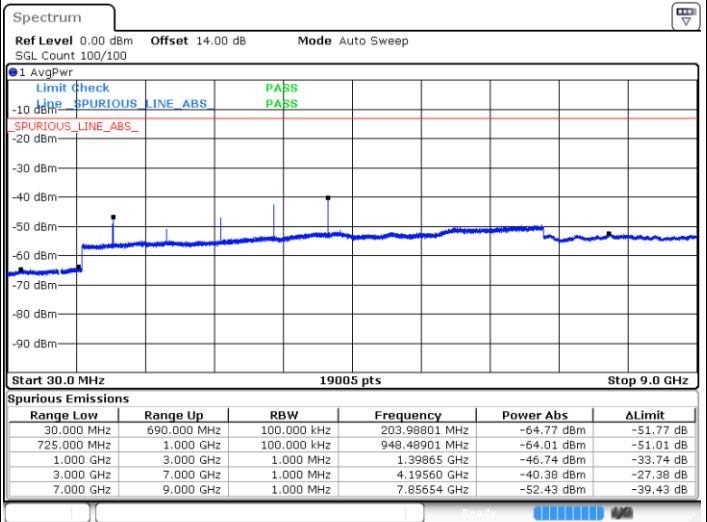
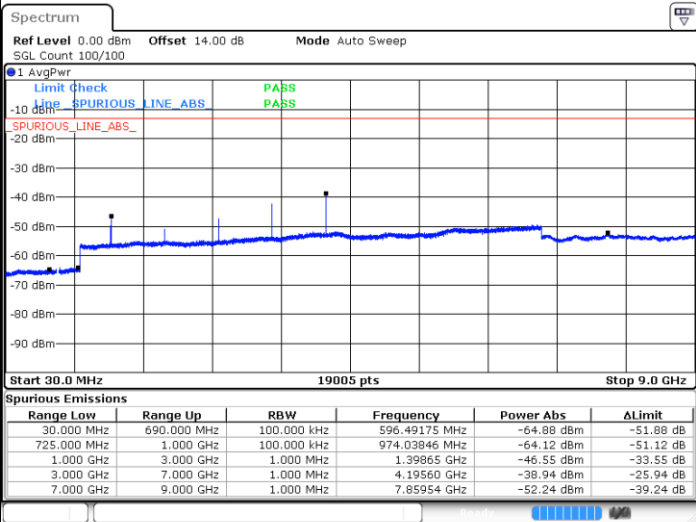
Date: 14.MAR.2020 23:00:59

Date: 14.MAR.2020 23:01:33

LTE Band 12 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 14.MAR.2020 22:12:55

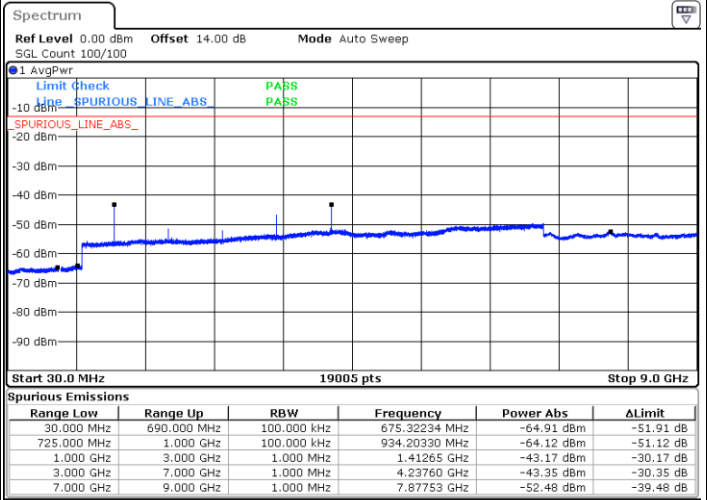
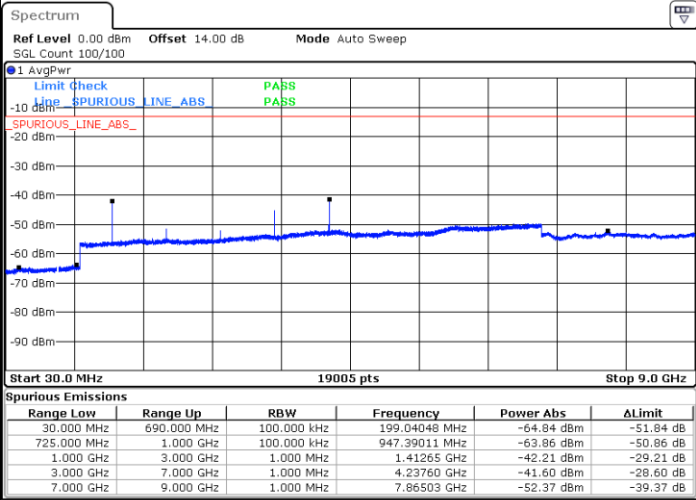
Date: 14.MAR.2020 22:13:29



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

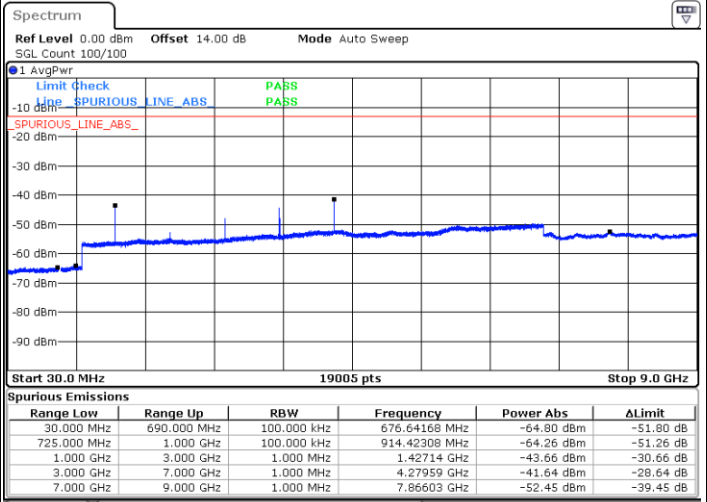
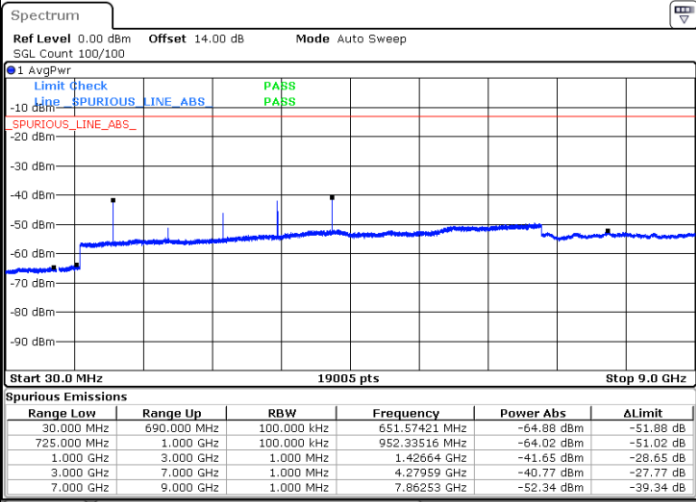


Date: 14.MAR.2020 22:15:22

Date: 14.MAR.2020 22:14:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.MAR.2020 22:20:35

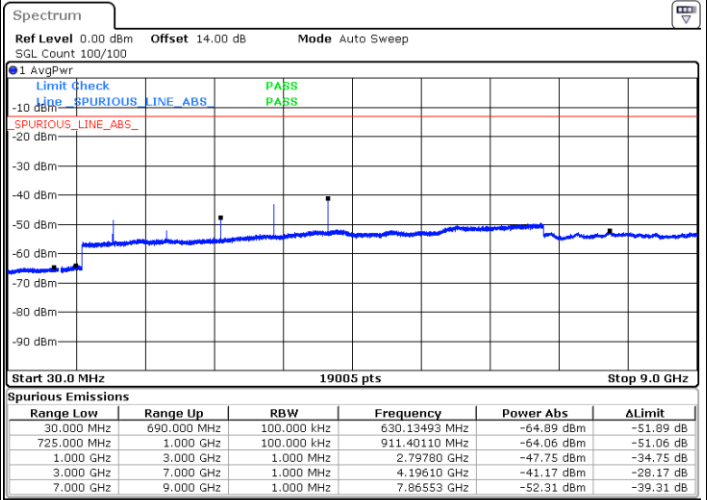
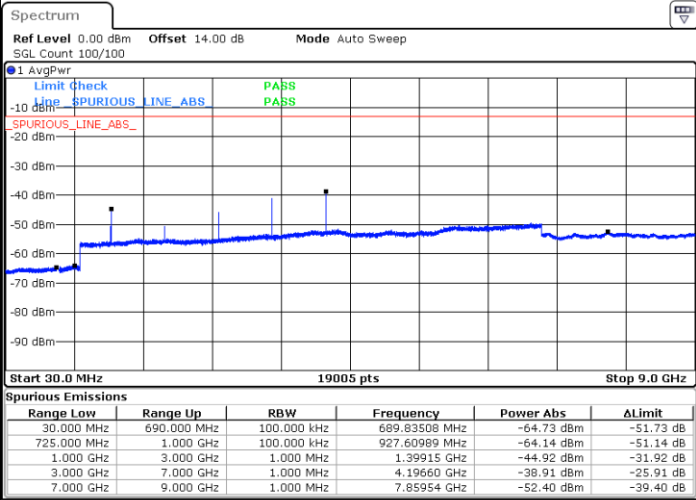
Date: 14.MAR.2020 22:21:09



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

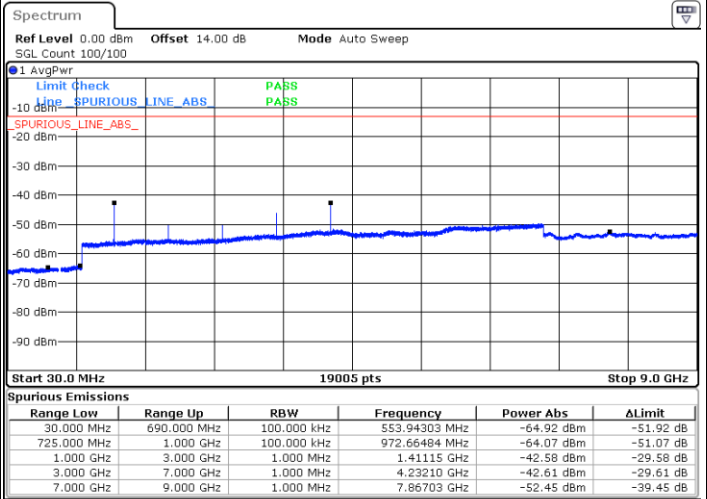
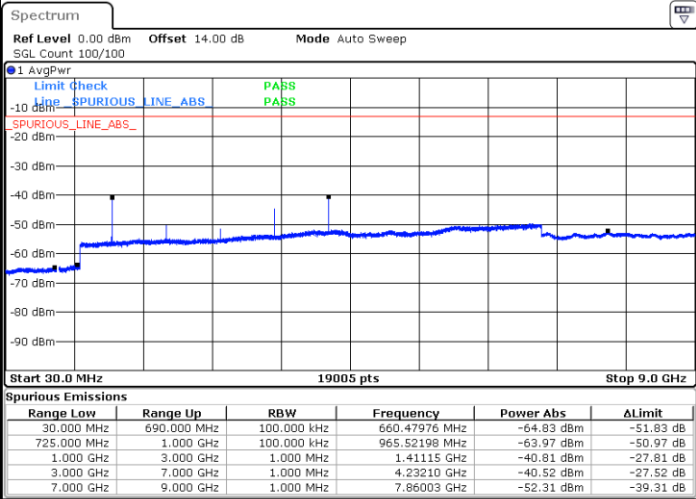


Date: 14.MAR.2020 22:26:23

Date: 14.MAR.2020 22:26:57

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 14.MAR.2020 22:28:50

Date: 14.MAR.2020 22:28:15