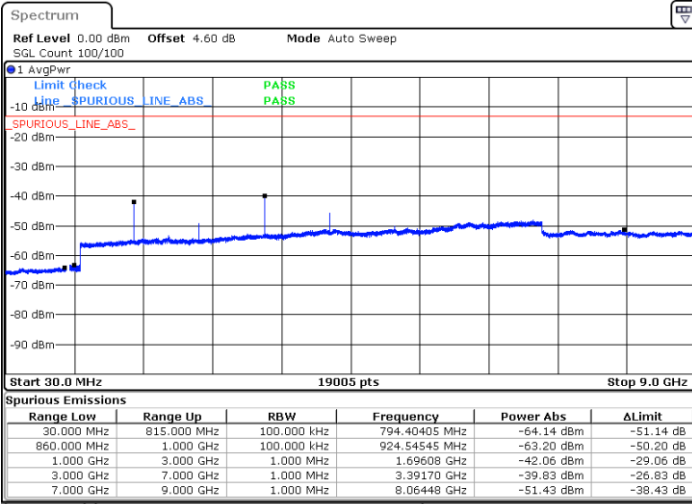




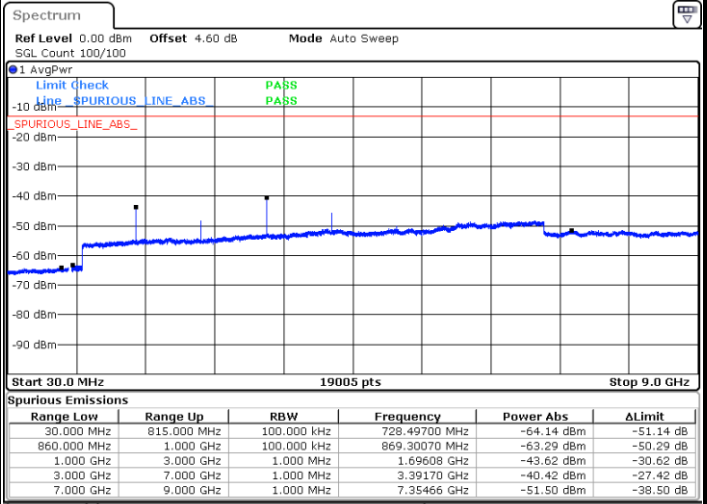
LTE Band 5 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.NOV.2019 03:38:26

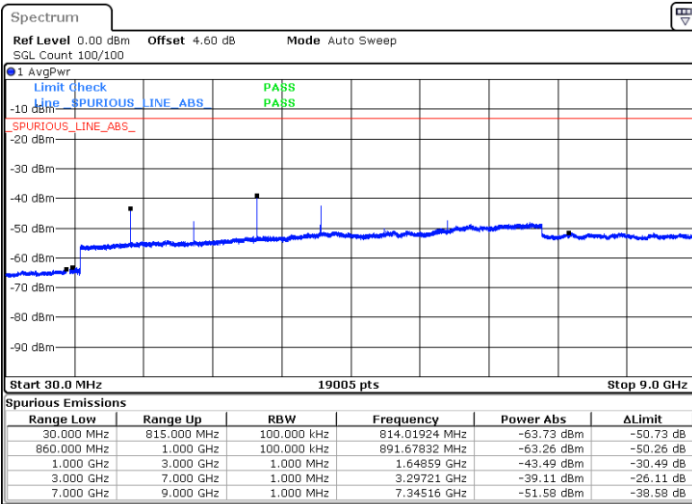


Date: 13.NOV.2019 03:39:21

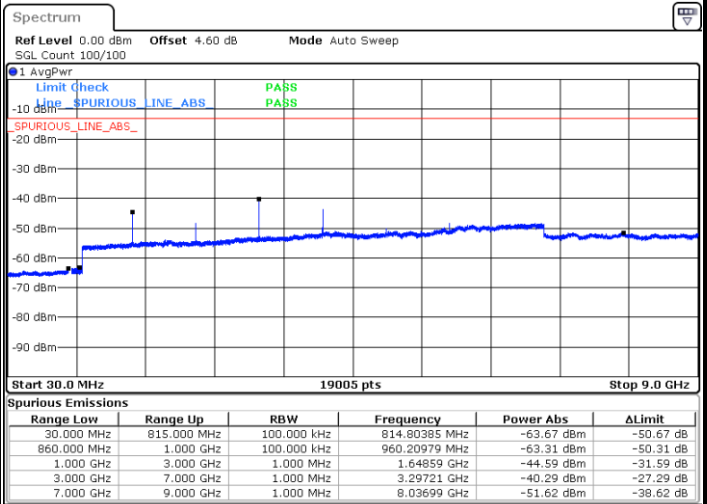
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 13.NOV.2019 03:47:25



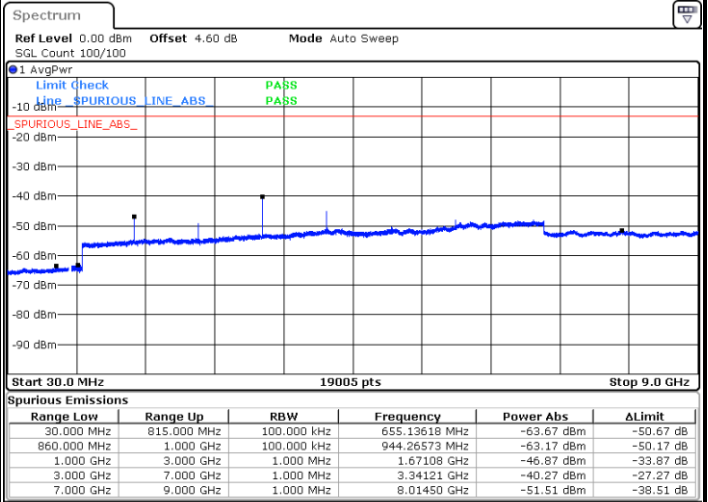
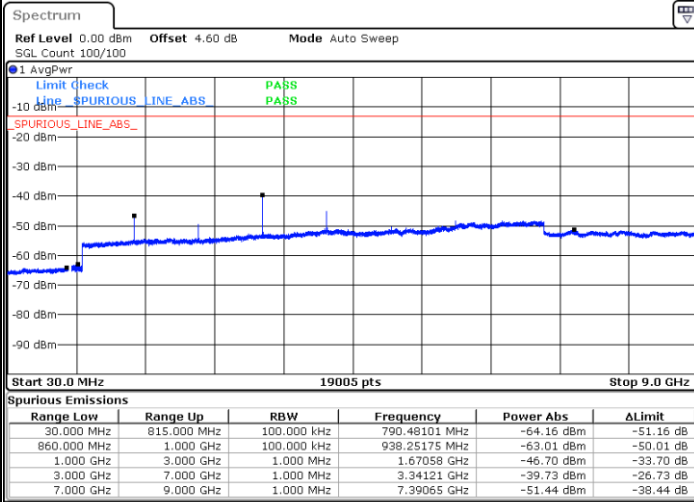
Date: 13.NOV.2019 03:48:20



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

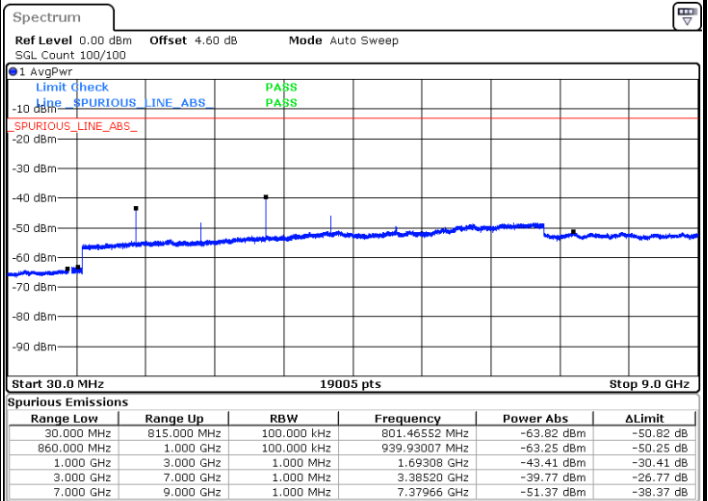
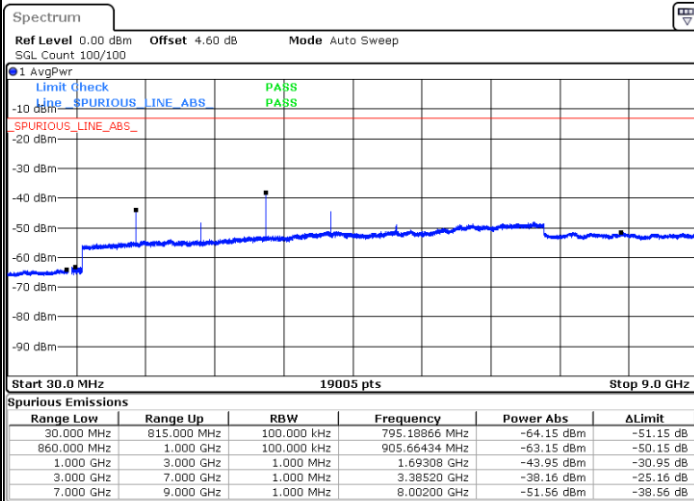


Date: 13.NOV.2019 03:49:54

Date: 13.NOV.2019 03:50:49

Highest Channel / QPSK

Highest Channel / 16QAM



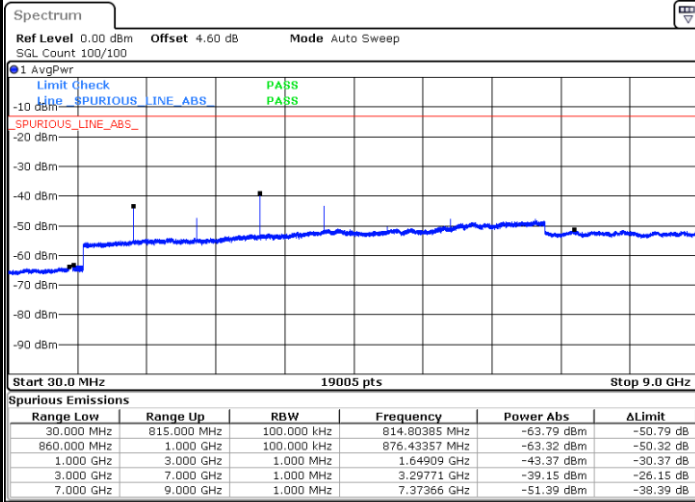
Date: 13.NOV.2019 03:58:53

Date: 13.NOV.2019 03:59:48



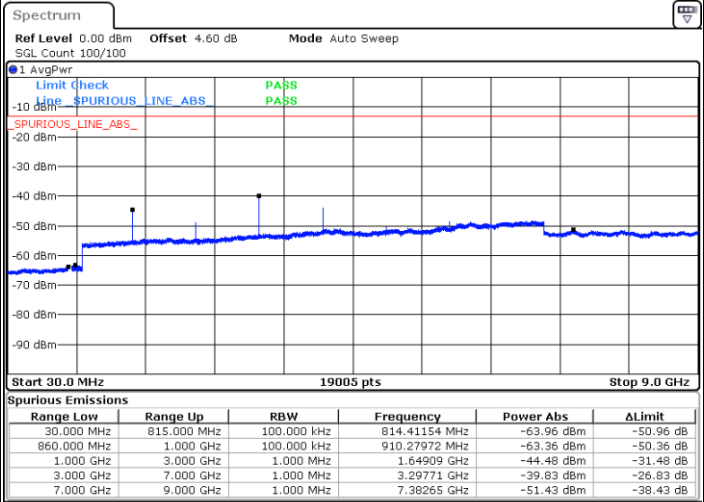
LTE Band 5 / 5MHz

Lowest Channel / QPSK



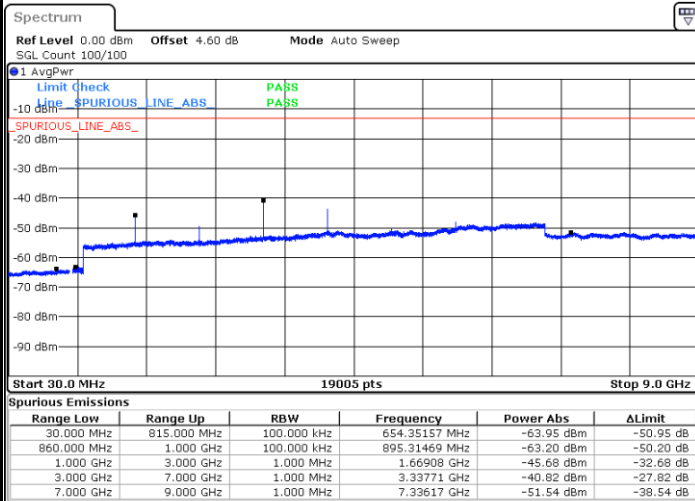
Date: 13.NOV.2019 04:07:52

Lowest Channel / 16QAM



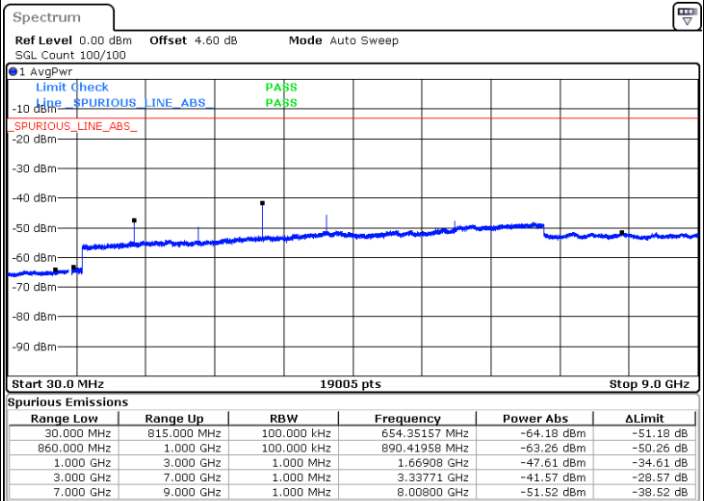
Date: 13.NOV.2019 04:08:47

Middle Channel / QPSK



Date: 13.NOV.2019 04:10:22

Middle Channel / 16QAM

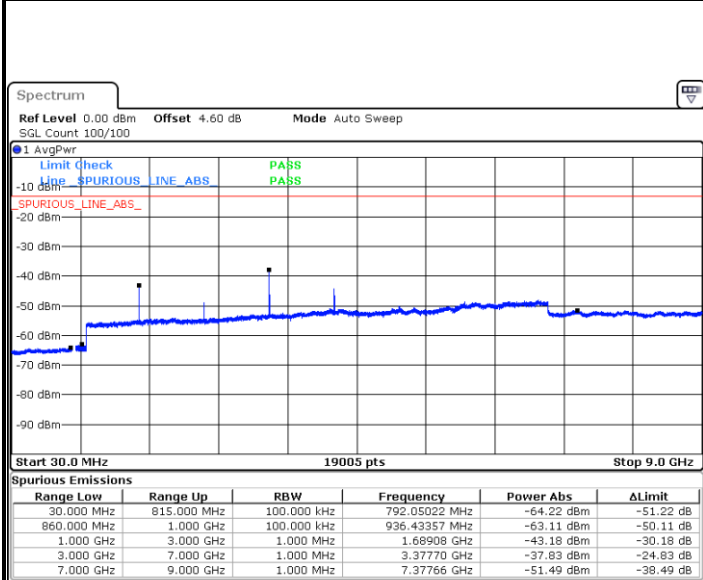


Date: 13.NOV.2019 04:11:16



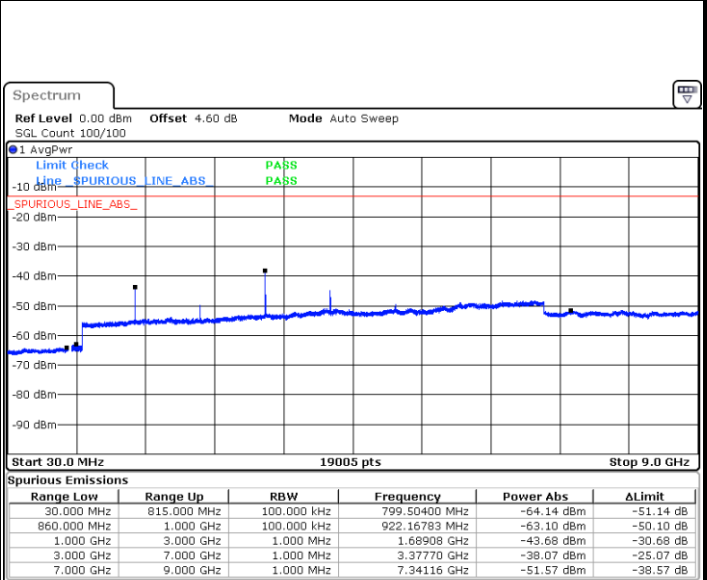
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 13.NOV.2019 04:19:21

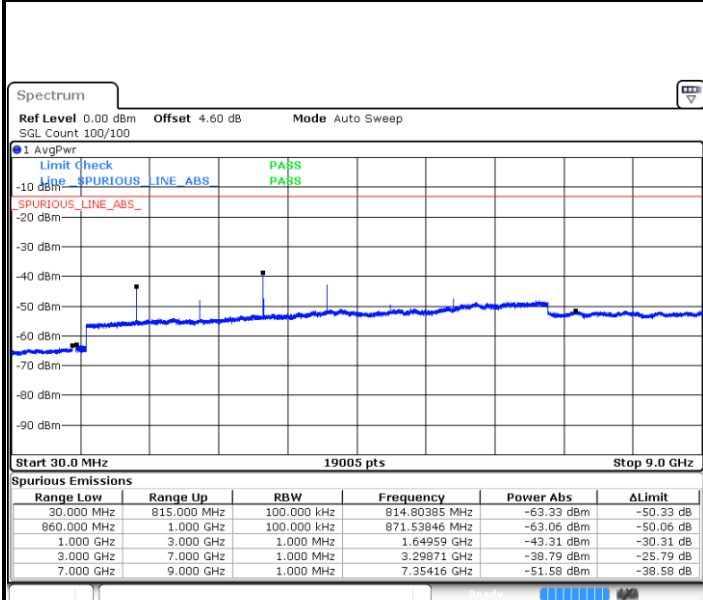
Highest Channel / 16QAM



Date: 13.NOV.2019 04:20:16

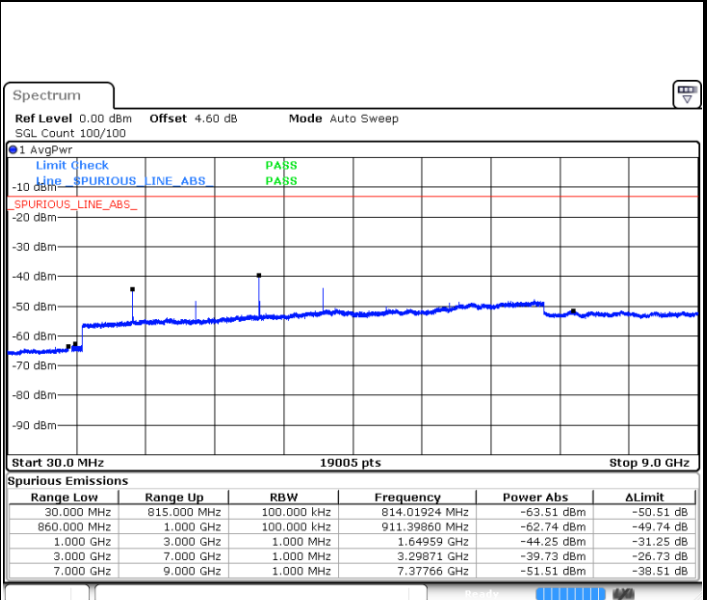
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 13.NOV.2019 04:28:21

Lowest Channel / 16QAM

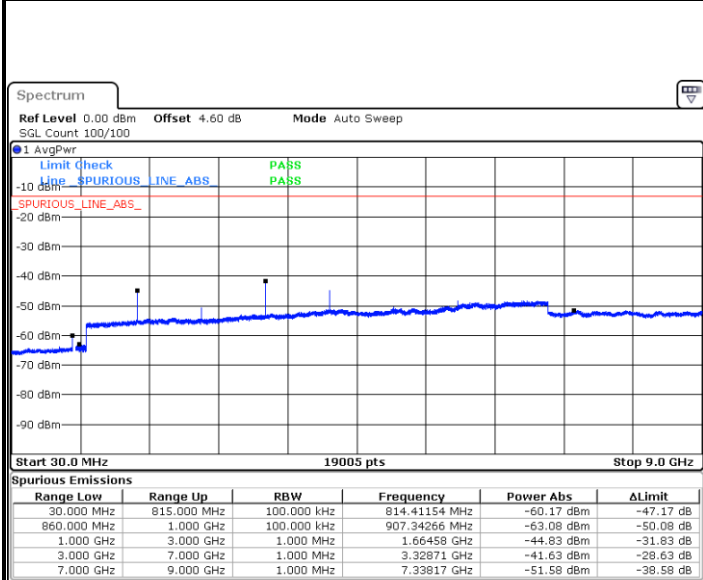


Date: 13.NOV.2019 04:29:15



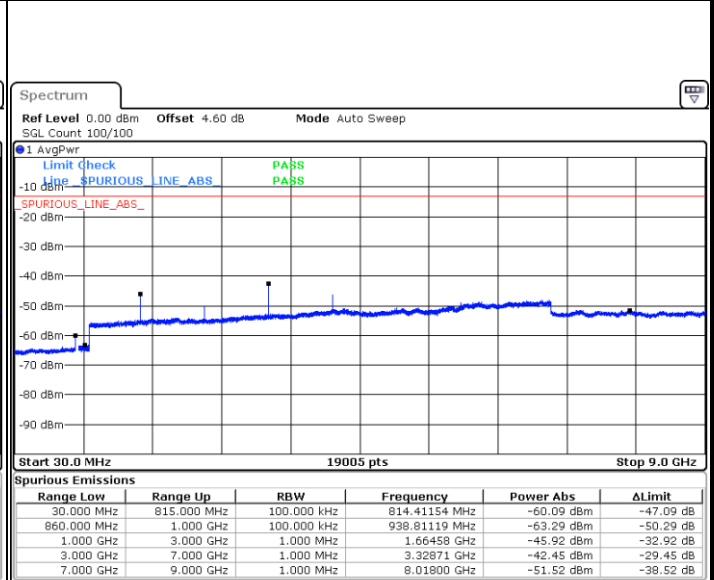
LTE Band 5 / 10MHz

Middle Channel / QPSK



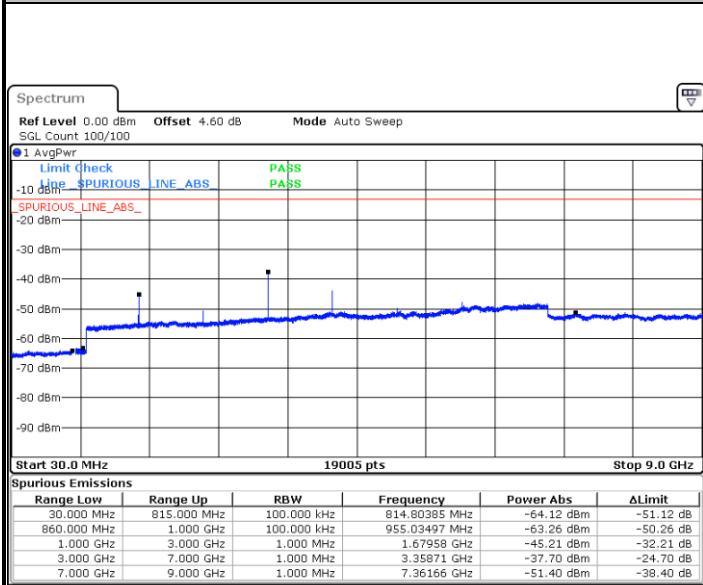
Date: 13.NOV.2019 04:30:50

Middle Channel / 16QAM



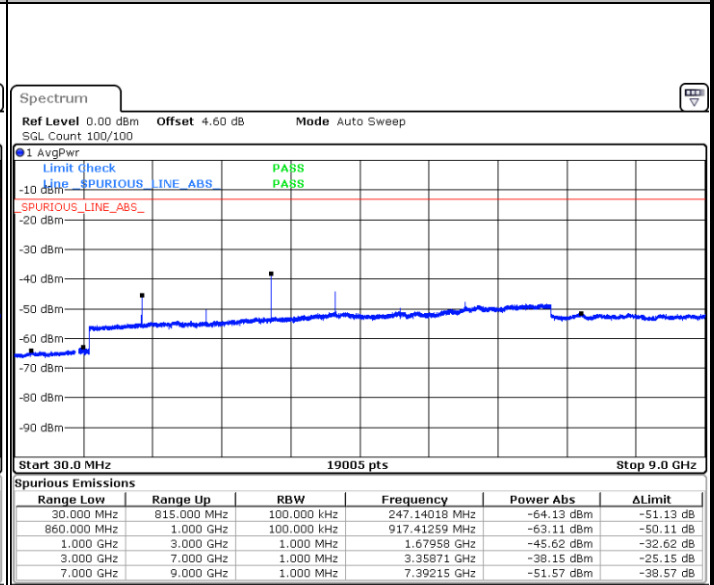
Date: 13.NOV.2019 04:31:45

Highest Channel / QPSK



Date: 13.NOV.2019 04:39:50

Highest Channel / 16QAM



Date: 13.NOV.2019 04:40:45



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	0.0034	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note: Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.



LTE Band 7

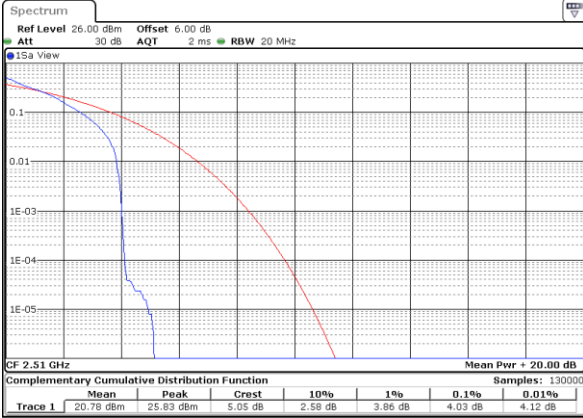
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	5.01	4.93	5.45	PASS
Middle CH	4.09	5.10	5.25	5.04	
Highest CH	3.65	4.78	4.49	4.72	



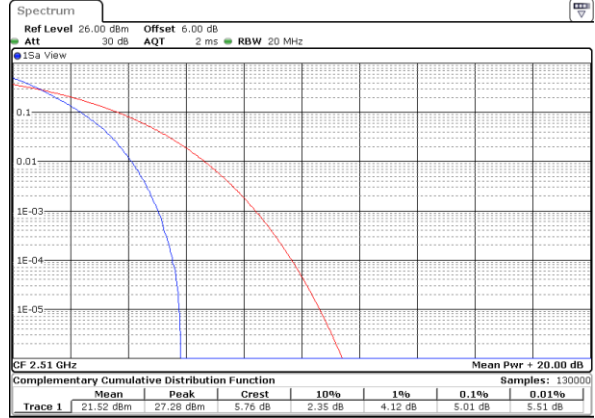
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



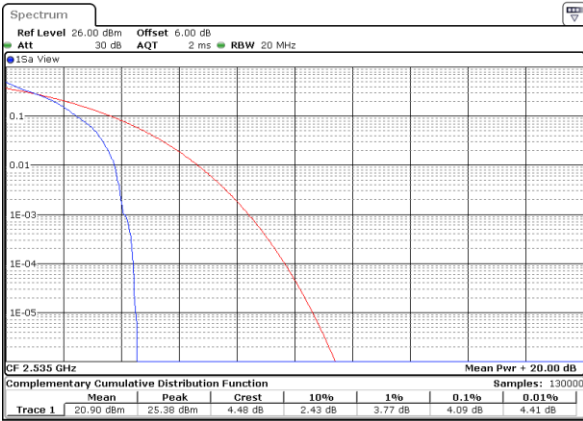
Date: 14 NOV 2019 14:06:52

Lowest Channel / Full RB



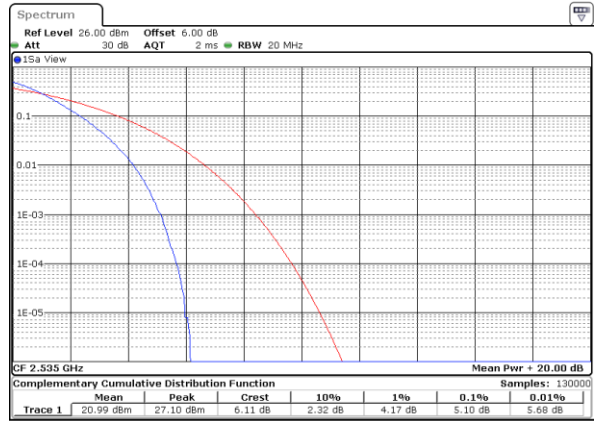
Date: 15 NOV 2019 15:23:13

Middle Channel / 1RB



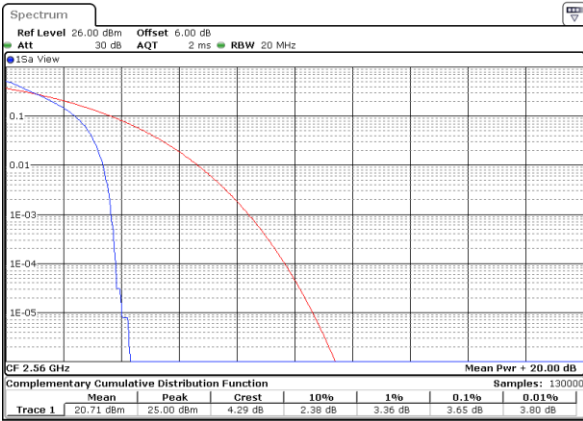
Date: 14 NOV 2019 14:07:01

Middle Channel / Full RB



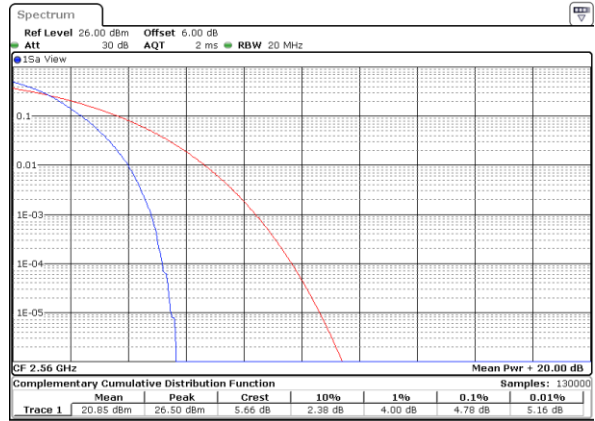
Date: 15 NOV 2019 15:22:59

Highest Channel / 1RB



Date: 14 NOV 2019 14:07:28

Highest Channel / Full RB

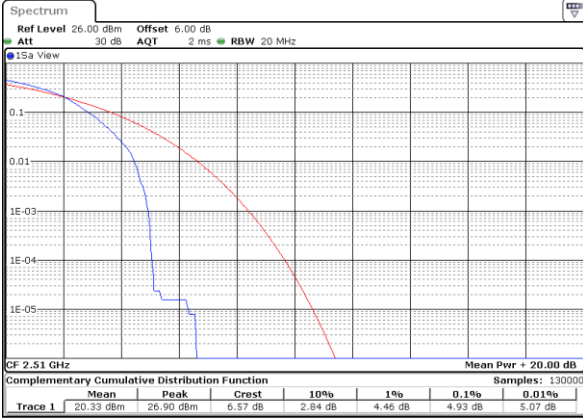


Date: 15 NOV 2019 15:22:45



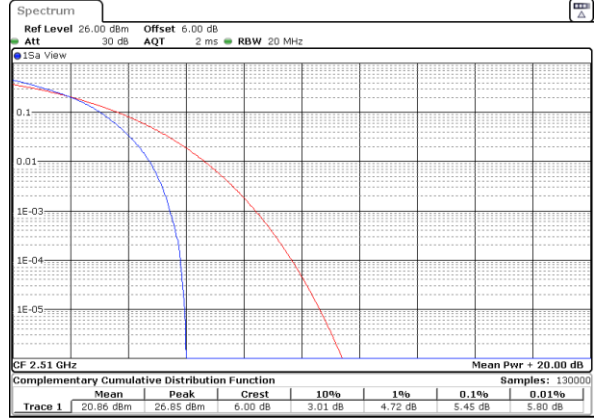
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



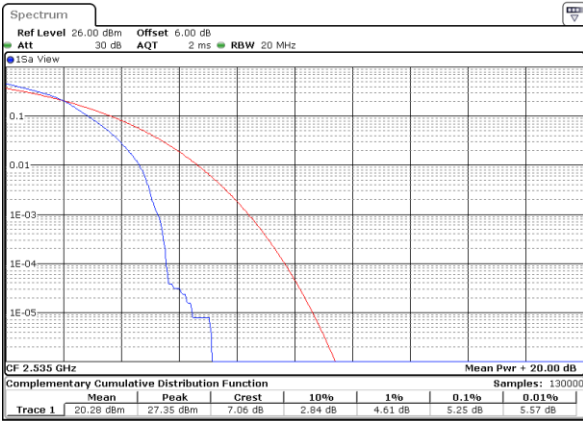
Date: 14 NOV 2019 14:06:43

Lowest Channel / Full RB



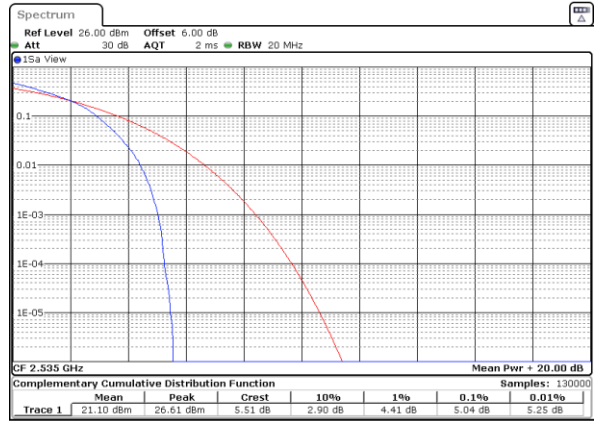
Date: 26 NOV 2019 09:15:18

Middle Channel / 1RB



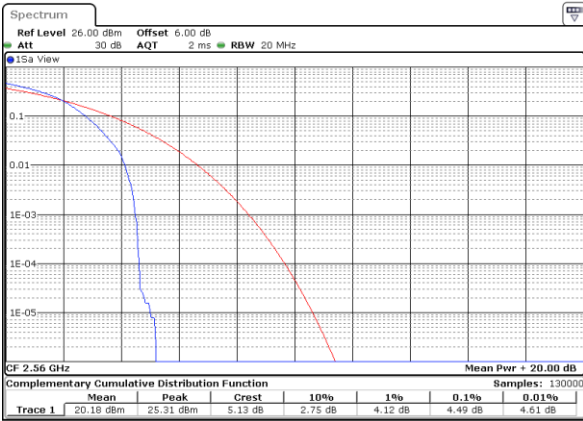
Date: 14 NOV 2019 14:07:10

Middle Channel / Full RB



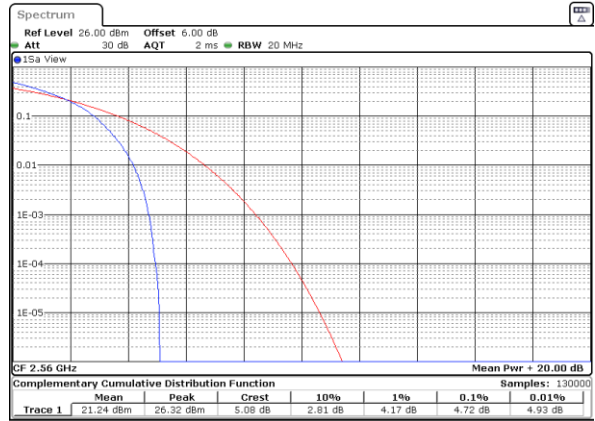
Date: 26 NOV 2019 09:13:38

Highest Channel / 1RB



Date: 14 NOV 2019 14:07:19

Highest Channel / Full RB



Date: 26 NOV 2019 09:12:41



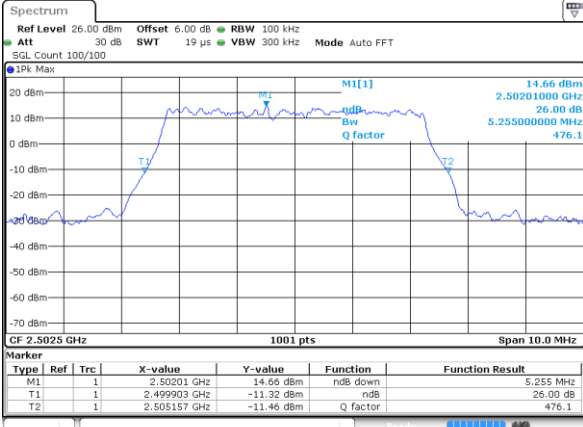
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	5.255	4.825	9.61	9.69	15.075	12.348	20.10	16.264
Middle CH	-	-	-	-	5.045	4.895	9.67	9.71	14.985	11.598	20.899	12.707
Highest CH	-	-	-	-	4.885	5.035	9.75	9.63	15.524	11.239	20.18	16.983



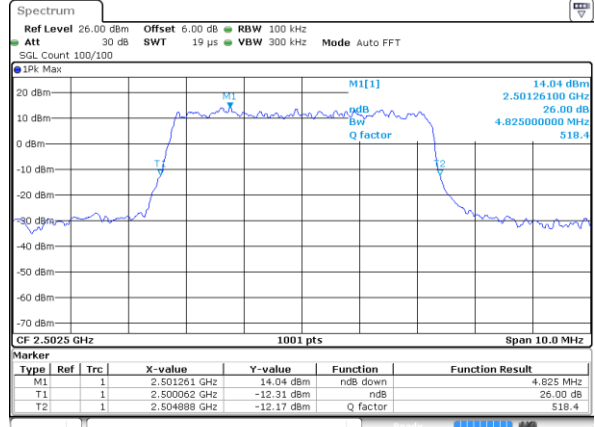
LTE Band 7

Lowest Channel / 5MHz / QPSK



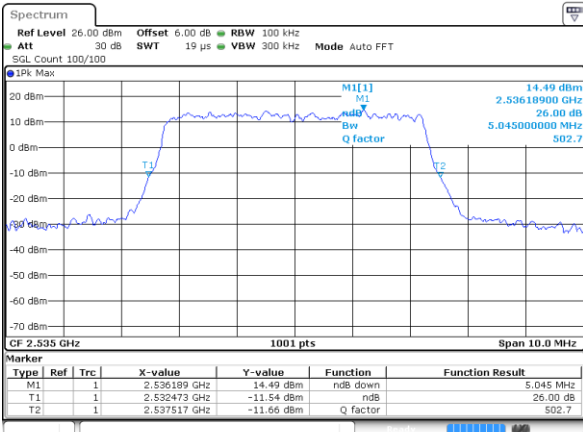
Date: 14 NOV 2019 11:34:35

Lowest Channel / 5MHz / 16QAM



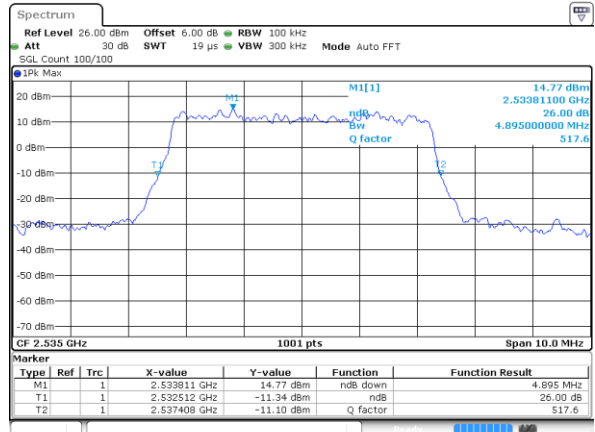
Date: 14 NOV 2019 11:34:55

Middle Channel / 5MHz / QPSK



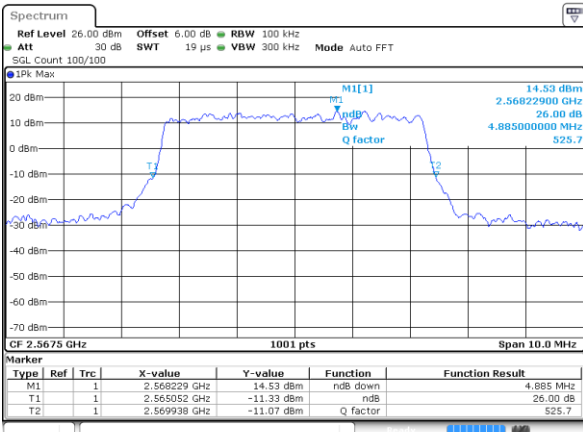
Date: 14 NOV 2019 11:35:35

Middle Channel / 5MHz / 16QAM



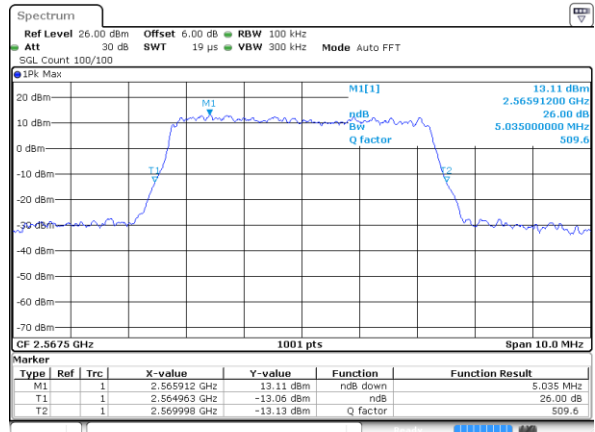
Date: 14 NOV 2019 11:35:15

Highest Channel / 5MHz / QPSK



Date: 14 NOV 2019 11:35:55

Highest Channel / 5MHz / 16QAM

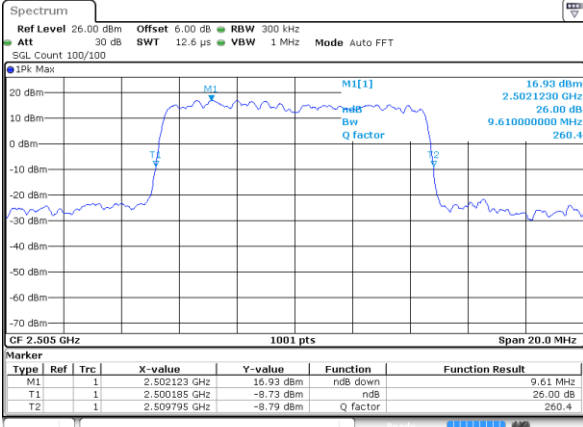


Date: 14 NOV 2019 11:36:15



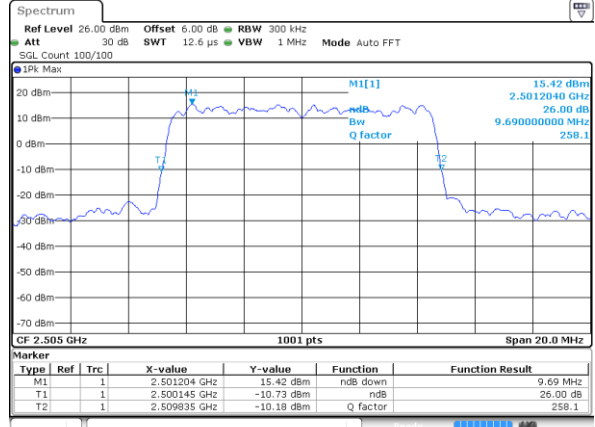
LTE Band 7

Lowest Channel / 10MHz / QPSK



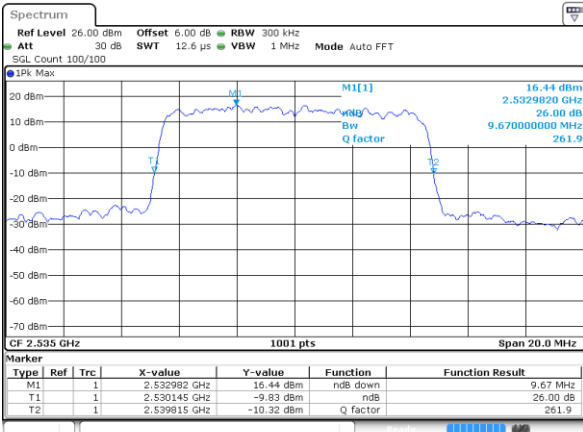
Date: 14 NOV 2019 11:51:05

Lowest Channel / 10MHz / 16QAM



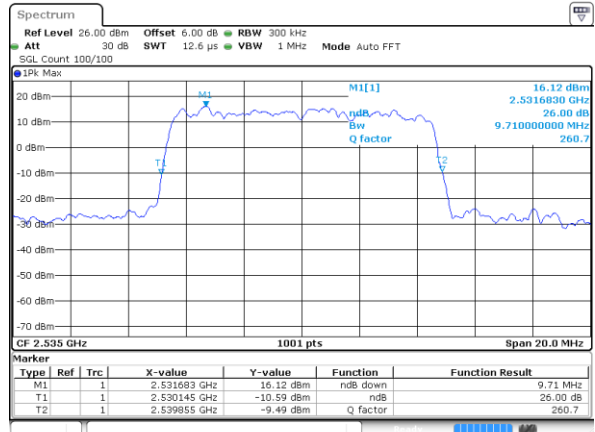
Date: 14 NOV 2019 11:51:25

Middle Channel / 10MHz / QPSK



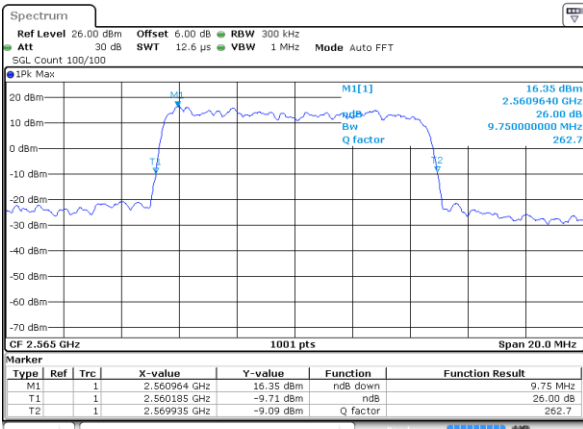
Date: 14 NOV 2019 11:52:06

Middle Channel / 10MHz / 16QAM



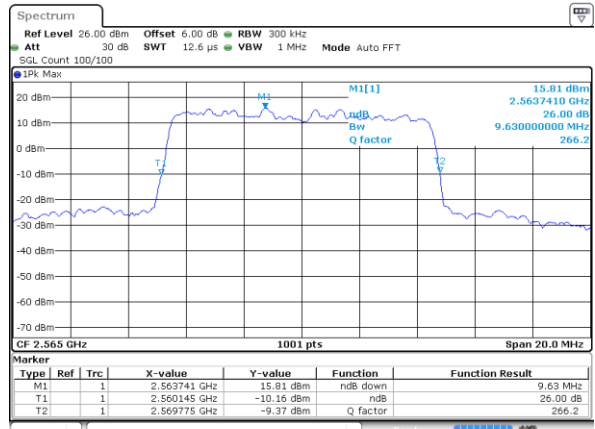
Date: 14 NOV 2019 11:51:46

Highest Channel / 10MHz / QPSK



Date: 14 NOV 2019 11:52:26

Highest Channel / 10MHz / 16QAM

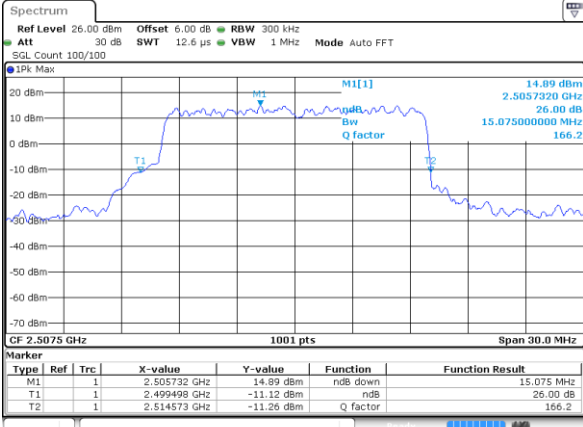


Date: 14 NOV 2019 11:52:46



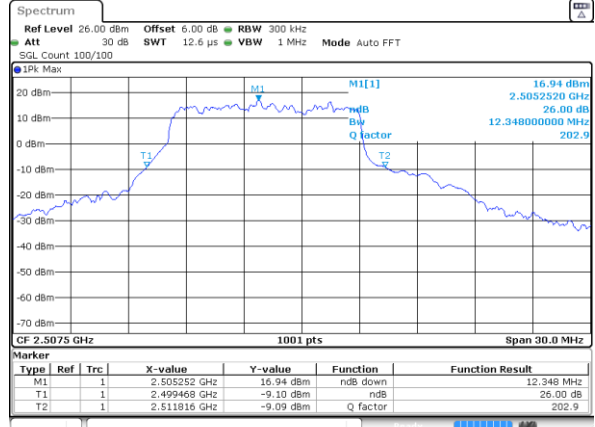
LTE Band 7

Lowest Channel / 15MHz / QPSK



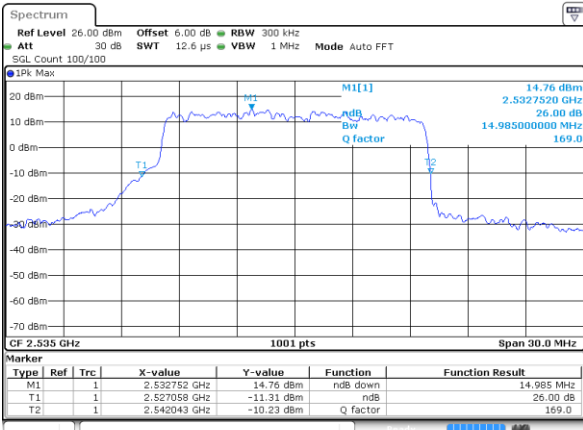
Date: 15 NOV 2019 15:18:09

Lowest Channel / 15MHz / 16QAM



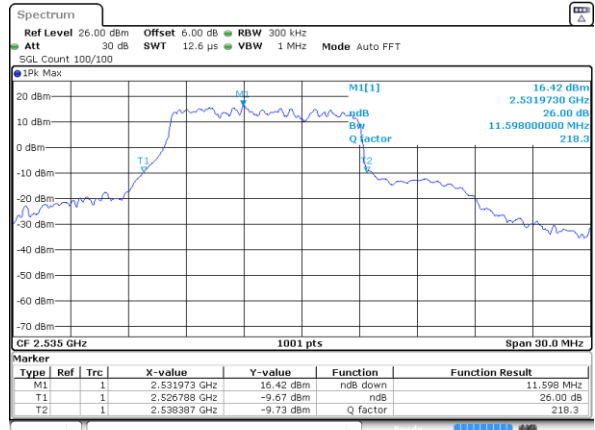
Date: 26 NOV 2019 09:06:18

Middle Channel / 15MHz / QPSK



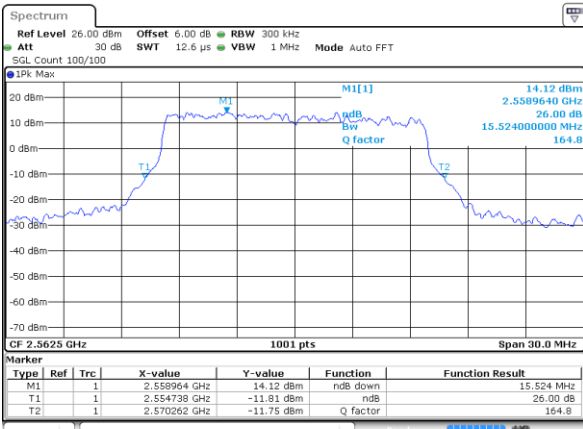
Date: 15 NOV 2019 15:17:42

Middle Channel / 15MHz / 16QAM



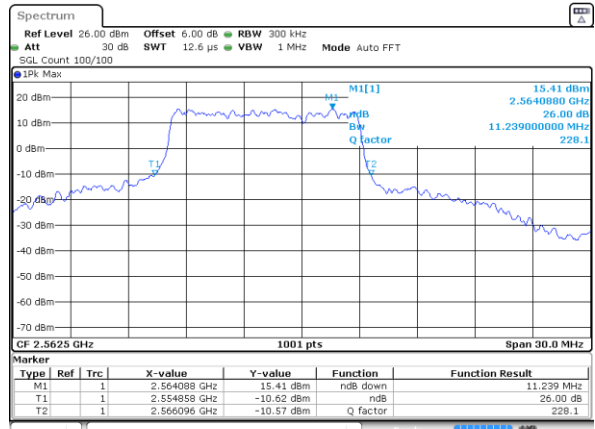
Date: 26 NOV 2019 09:08:04

Highest Channel / 15MHz / QPSK



Date: 15 NOV 2019 15:19:53

Highest Channel / 15MHz / 16QAM

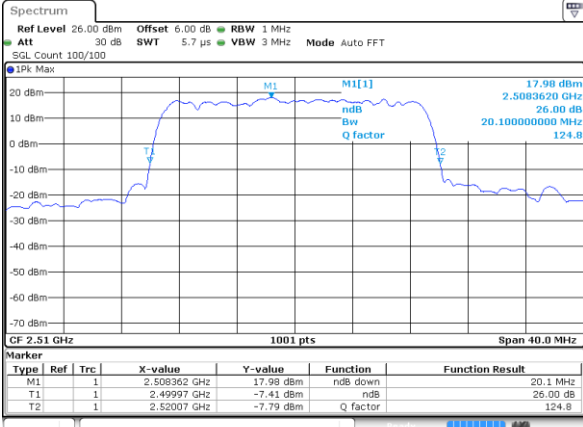


Date: 26 NOV 2019 09:08:29



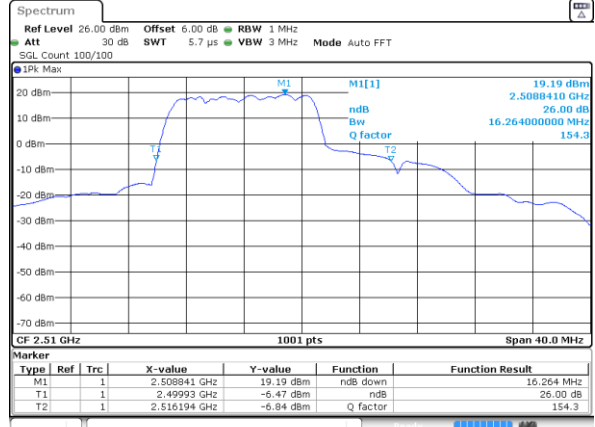
LTE Band 7

Lowest Channel / 20MHz / QPSK



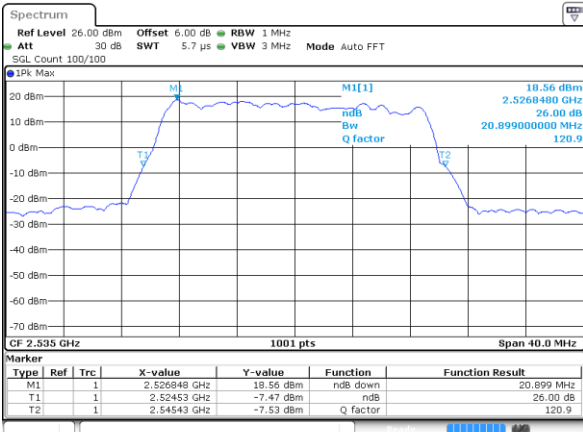
Date: 15 NOV 2019 15:21:13

Lowest Channel / 20MHz / 16QAM



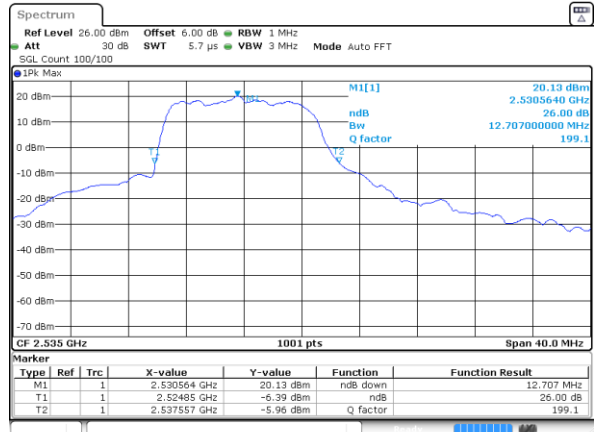
Date: 26 NOV 2019 09:15:34

Middle Channel / 20MHz / QPSK



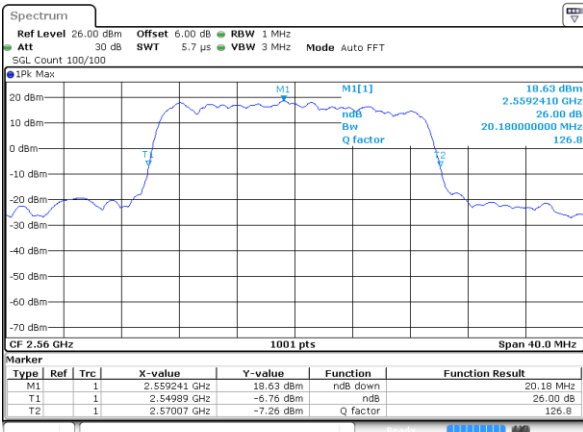
Date: 15 NOV 2019 15:21:51

Middle Channel / 20MHz / 16QAM



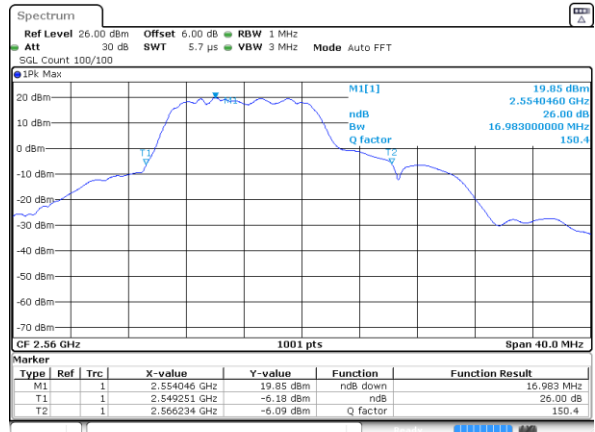
Date: 26 NOV 2019 09:15:55

Highest Channel / 20MHz / QPSK



Date: 15 NOV 2019 15:22:16

Highest Channel / 20MHz / 16QAM



Date: 26 NOV 2019 09:12:28



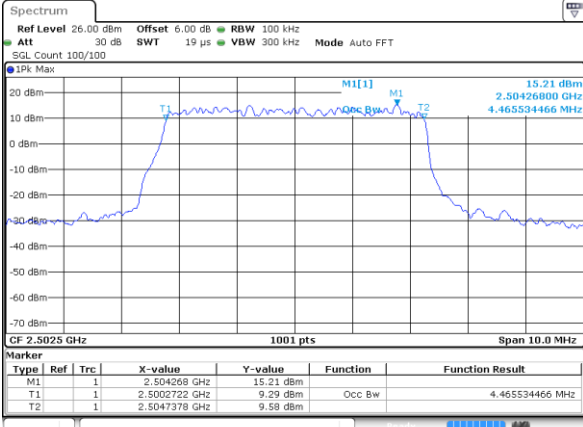
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.47	4.48	8.97	9.01	13.52	9.86	18.34	10.43
Middle CH	-	-	-	-	4.47	4.45	9.01	8.95	13.37	9.98	18.26	11.07
Highest CH	-	-	-	-	4.45	4.47	9.01	8.95	13.43	9.83	18.26	11.43



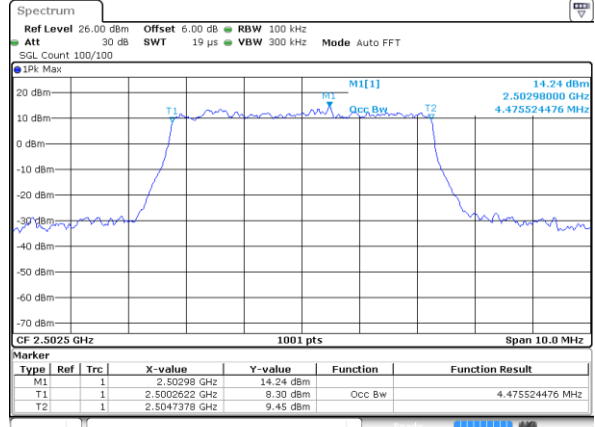
LTE Band 7

Lowest Channel / 5MHz / QPSK



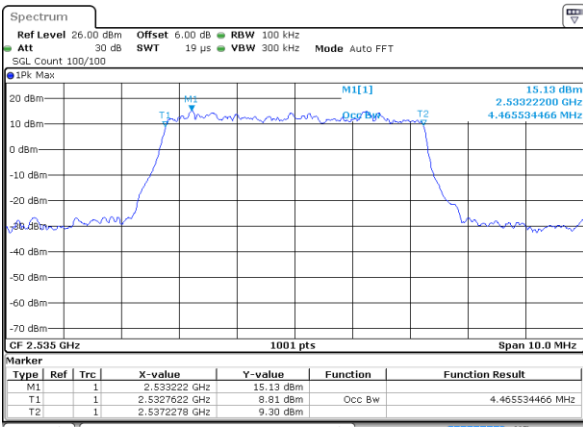
Date: 14 NOV 2019 11:34:25

Lowest Channel / 5MHz / 16QAM



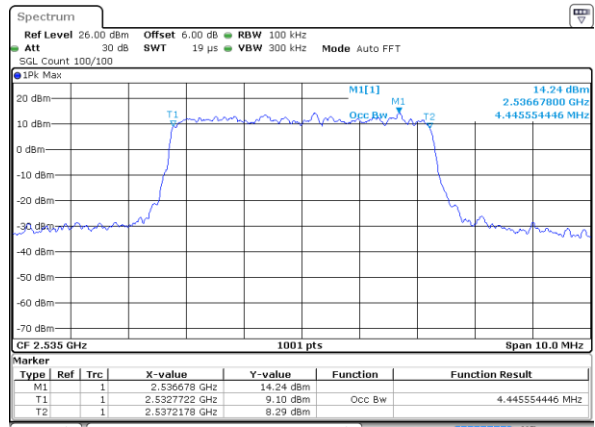
Date: 14 NOV 2019 11:34:45

Middle Channel / 5MHz / QPSK



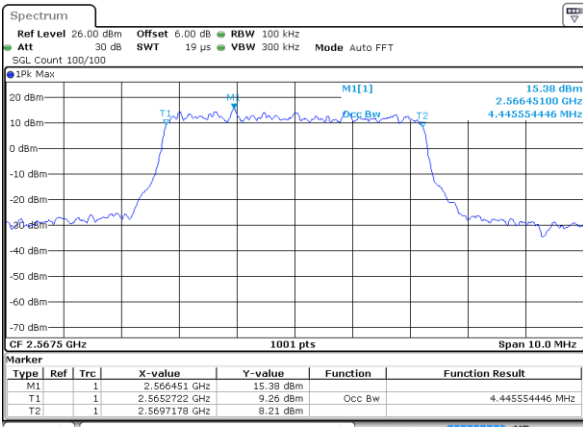
Date: 14 NOV 2019 11:35:25

Middle Channel / 5MHz / 16QAM



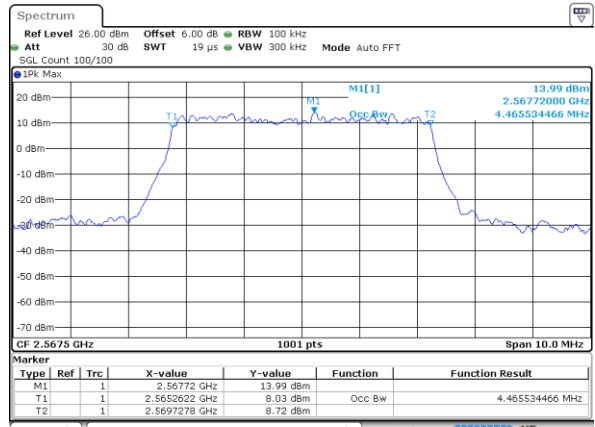
Date: 14 NOV 2019 11:35:05

Highest Channel / 5MHz / QPSK



Date: 14 NOV 2019 11:35:45

Highest Channel / 5MHz / 16QAM

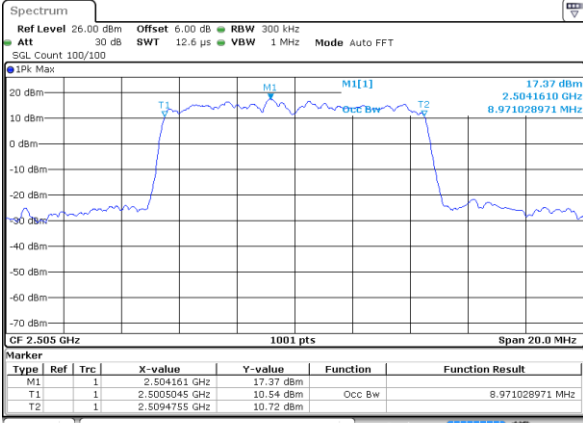


Date: 14 NOV 2019 11:36:05



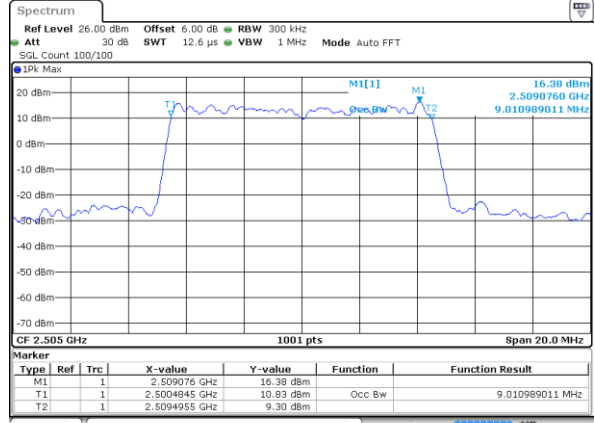
LTE Band 7

Lowest Channel / 10MHz / QPSK



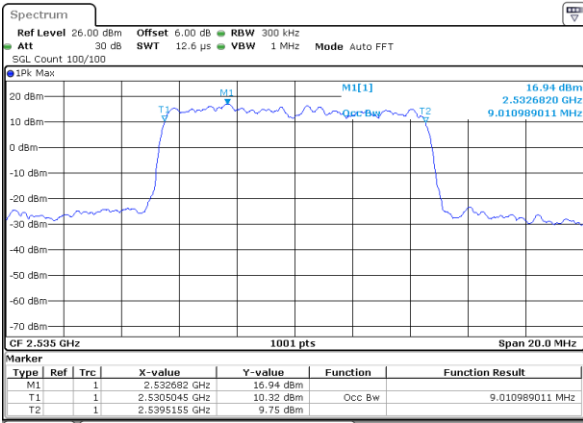
Date: 14 NOV 2019 11:50:55

Lowest Channel / 10MHz / 16QAM



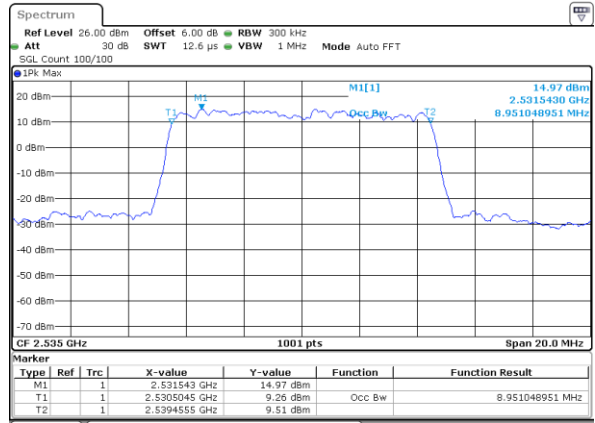
Date: 14 NOV 2019 11:51:15

Middle Channel / 10MHz / QPSK



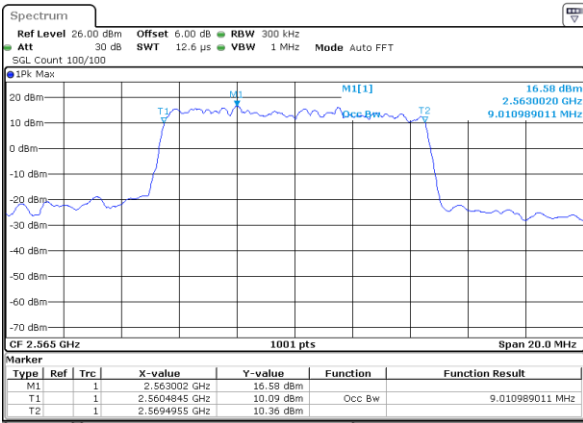
Date: 14 NOV 2019 11:51:56

Middle Channel / 10MHz / 16QAM



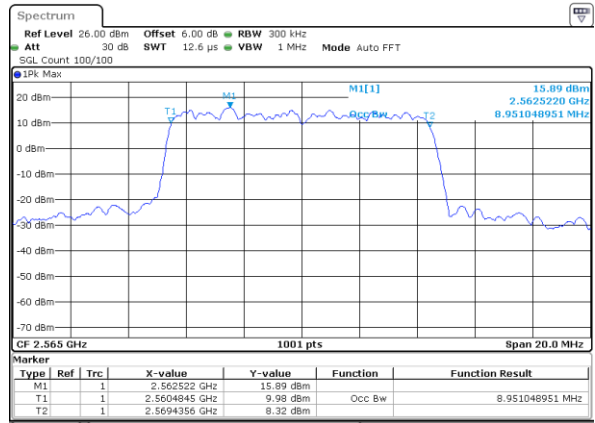
Date: 14 NOV 2019 11:51:35

Highest Channel / 10MHz / QPSK



Date: 14 NOV 2019 11:52:16

Highest Channel / 10MHz / 16QAM

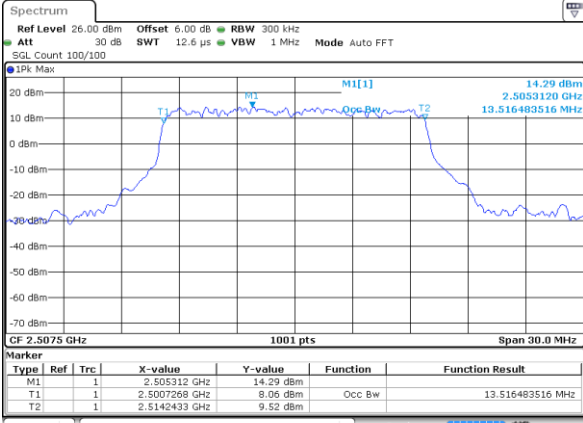


Date: 14 NOV 2019 11:52:36



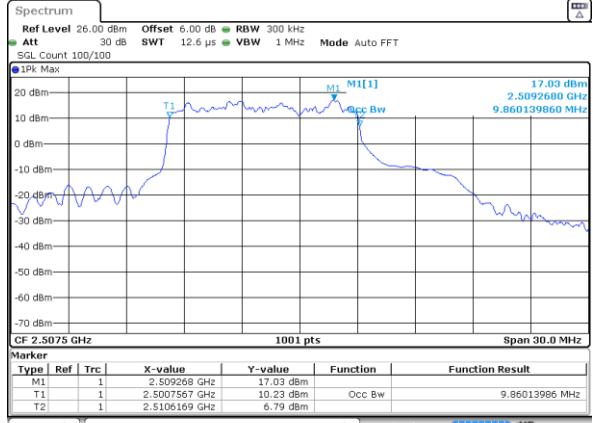
LTE Band 7

Lowest Channel / 15MHz / QPSK



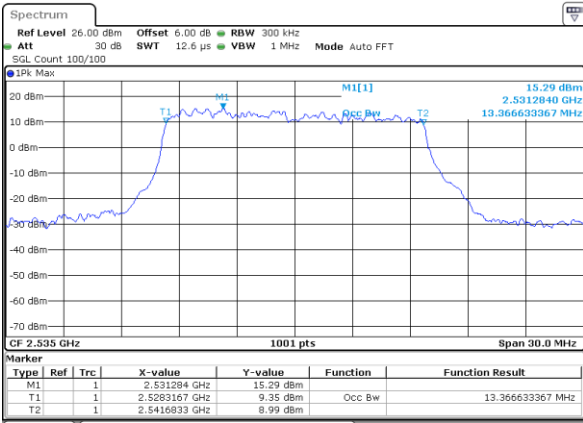
Date: 15 NOV 2019 15:17:58

Lowest Channel / 15MHz / 16QAM



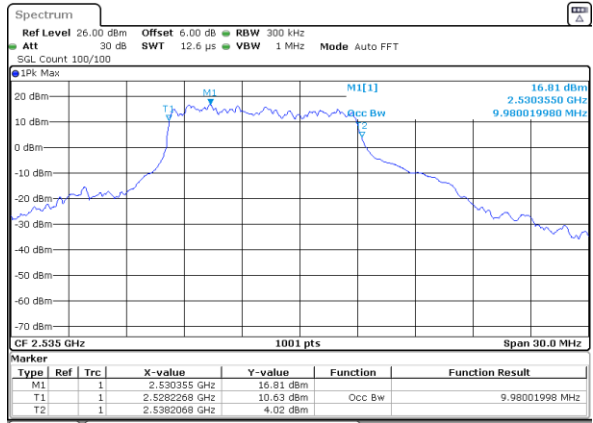
Date: 26 NOV 2019 09:06:09

Middle Channel / 15MHz / QPSK



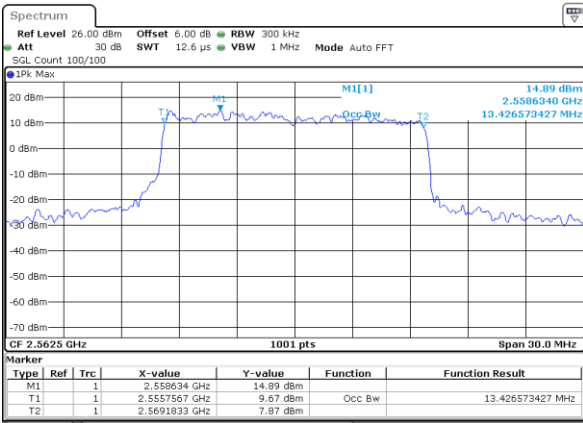
Date: 15 NOV 2019 15:17:30

Middle Channel / 15MHz / 16QAM



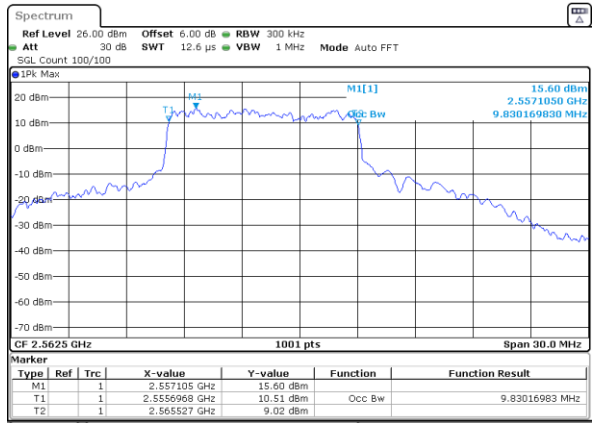
Date: 26 NOV 2019 09:07:54

Highest Channel / 15MHz / QPSK



Date: 15 NOV 2019 15:19:42

Highest Channel / 15MHz / 16QAM

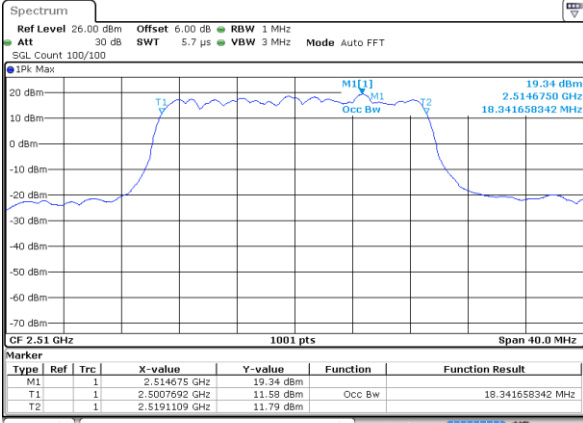


Date: 26 NOV 2019 09:08:22



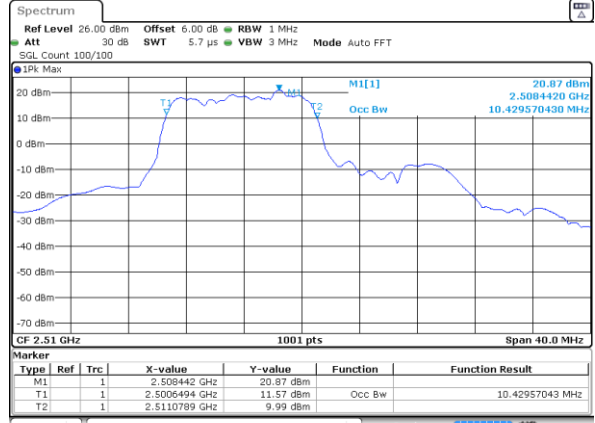
LTE Band 7

Lowest Channel / 20MHz / QPSK



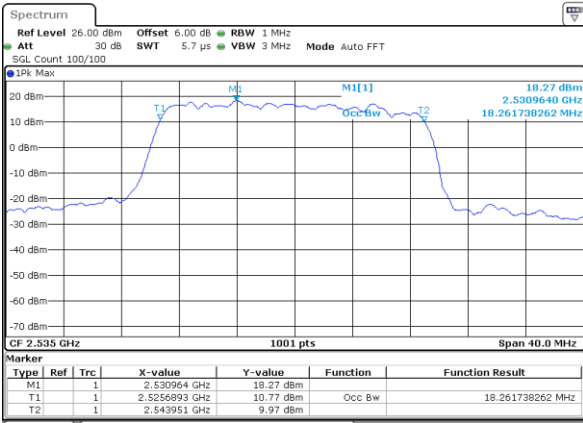
Date: 15 NOV 2019 15:21:00

Lowest Channel / 20MHz / 16QAM



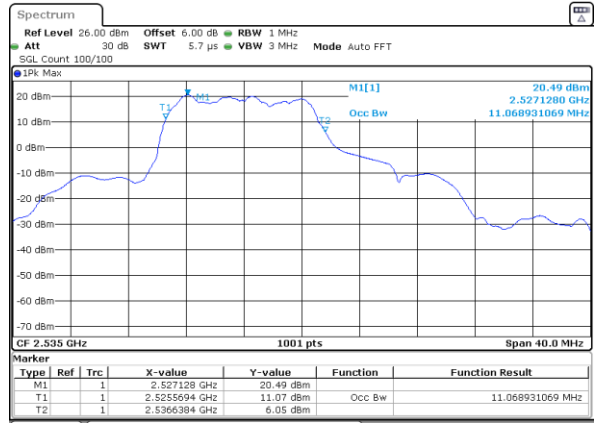
Date: 26 NOV 2019 09:15:26

Middle Channel / 20MHz / QPSK



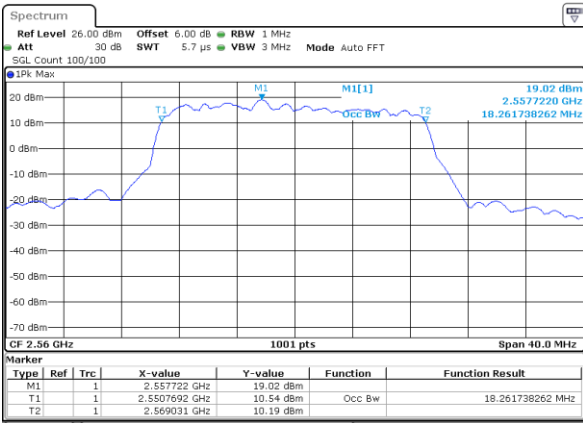
Date: 15 NOV 2019 15:21:41

Middle Channel / 20MHz / 16QAM



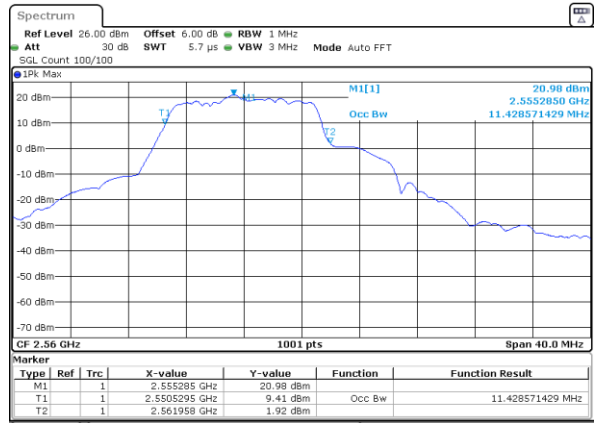
Date: 26 NOV 2019 09:13:46

Highest Channel / 20MHz / QPSK



Date: 15 NOV 2019 15:22:05

Highest Channel / 20MHz / 16QAM



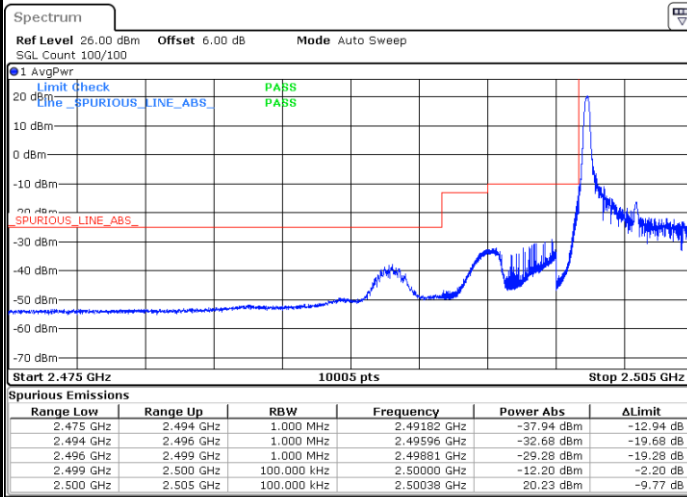
Date: 26 NOV 2019 09:12:19



Conducted Band Edge

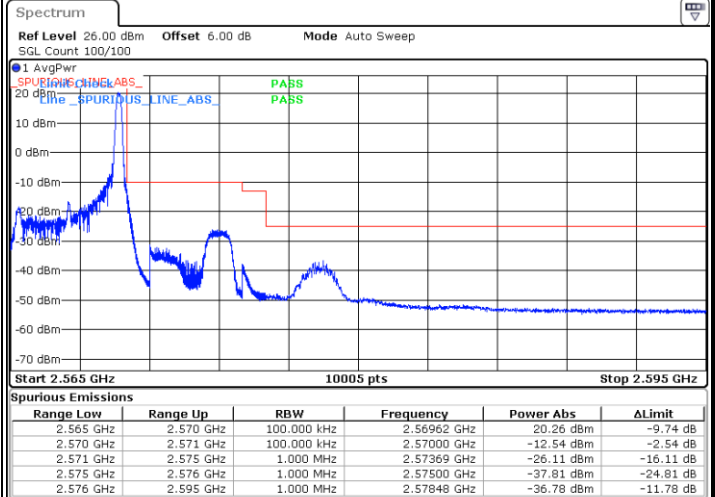
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



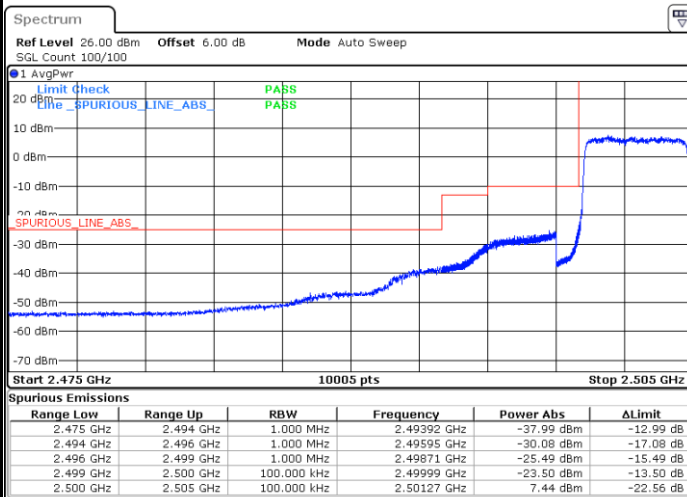
Date: 14.NOV.2019 11:37:24

Highest Band Edge / 1 RB



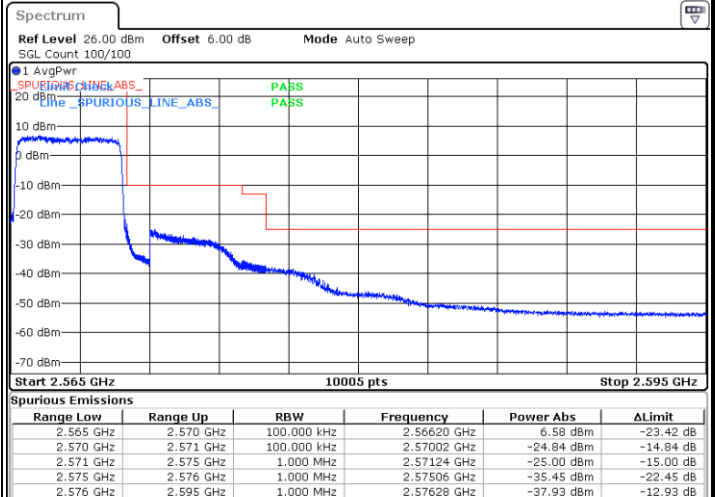
Date: 14.NOV.2019 11:45:22

Lowest Band Edge / Full RB



Date: 14.NOV.2019 11:40:49

Highest Band Edge / Full RB



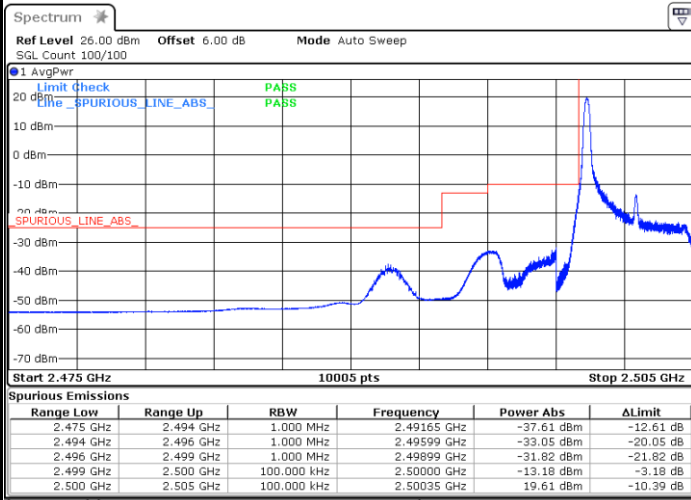
Date: 14.NOV.2019 11:41:58



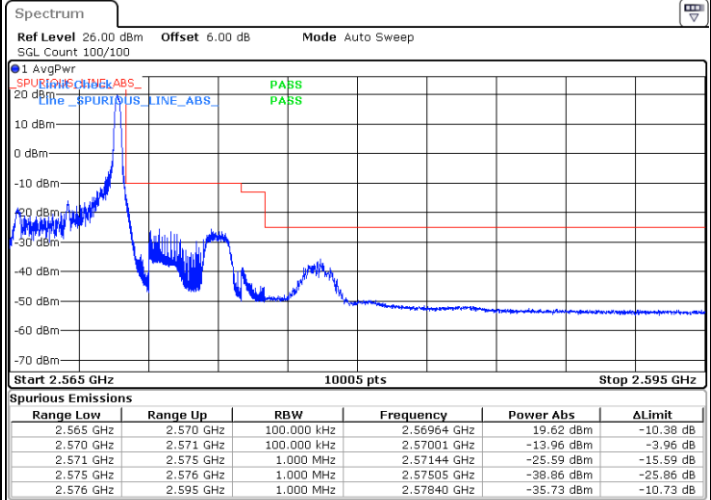
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



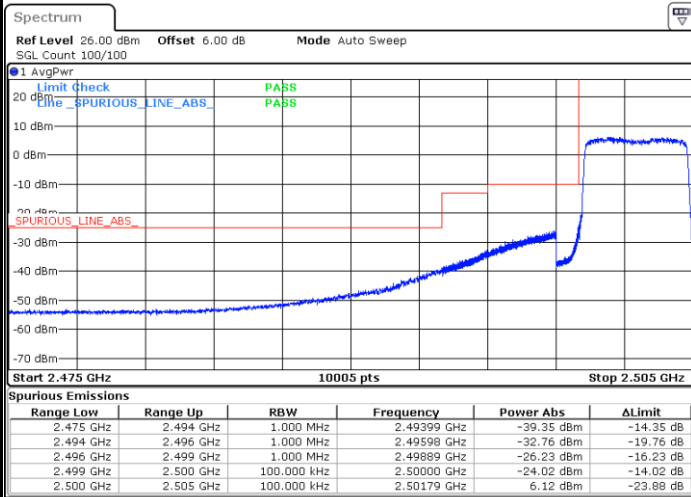
Date: 14.NOV.2019 17:39:16



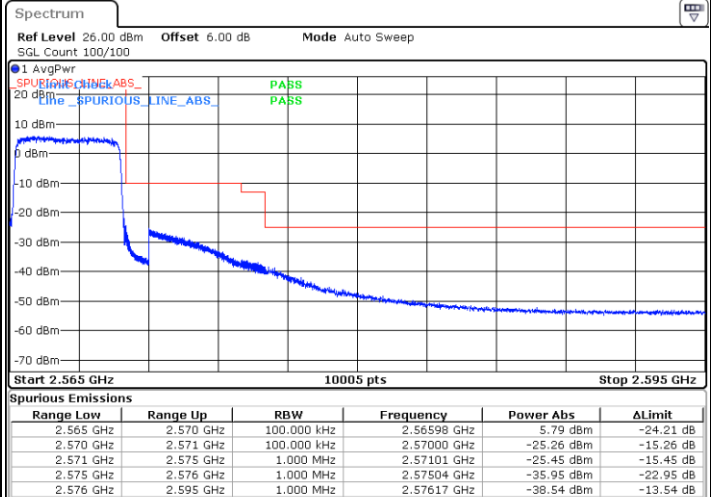
Date: 14.NOV.2019 11:44:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.NOV.2019 11:39:41



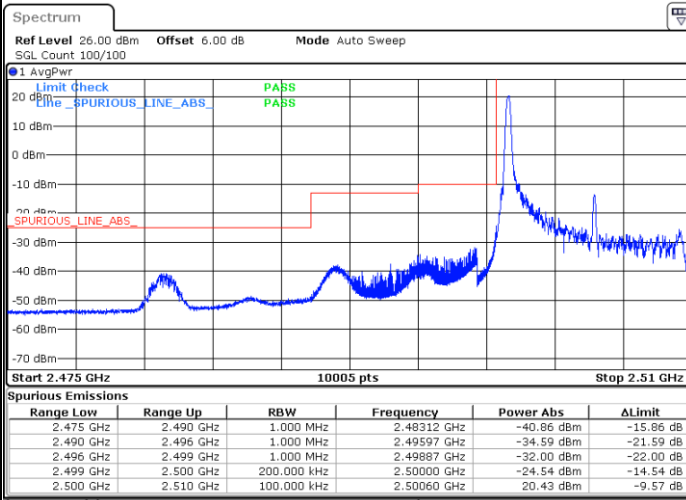
Date: 14.NOV.2019 11:43:06



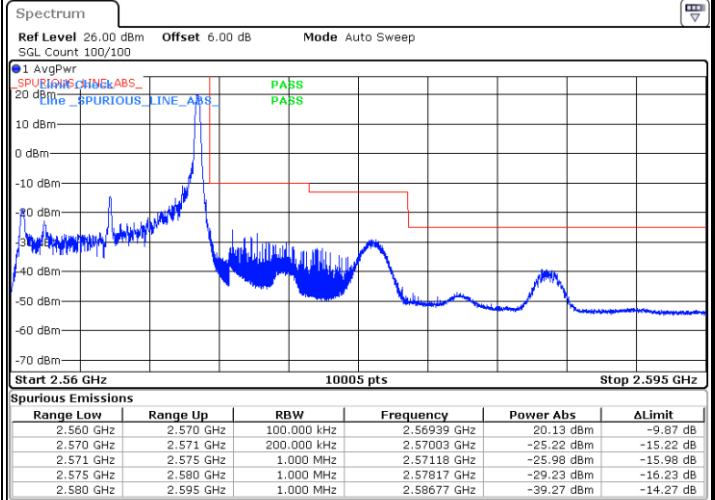
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



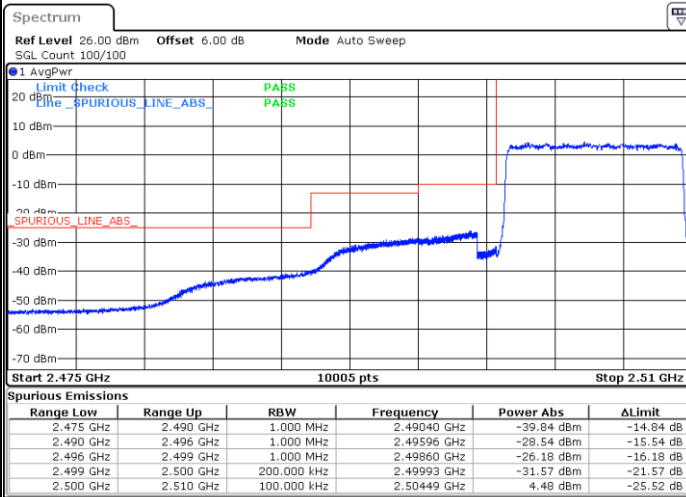
Date: 14.NOV.2019 11:53:54



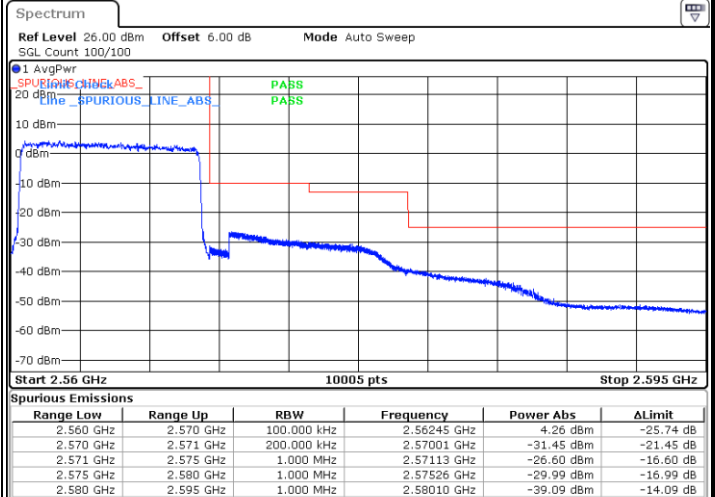
Date: 14.NOV.2019 12:01:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.NOV.2019 11:57:19



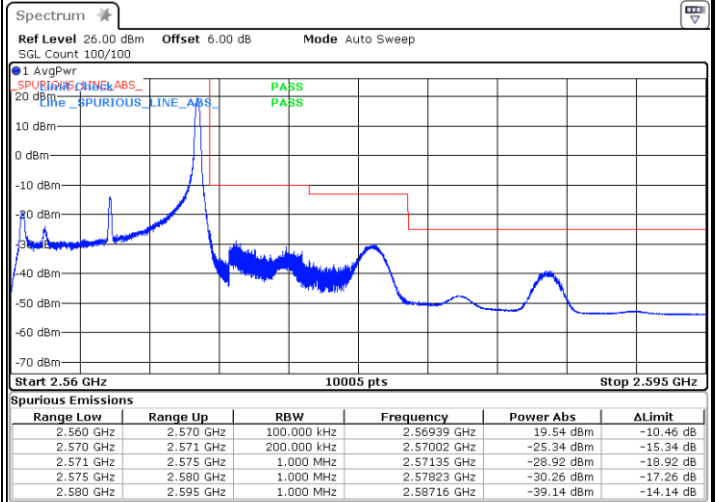
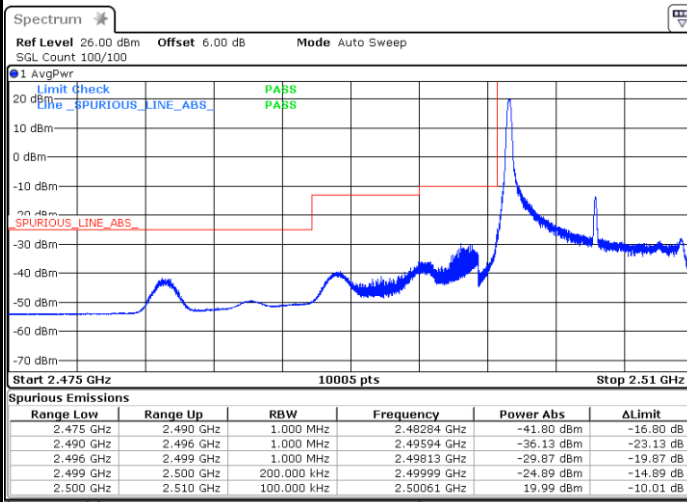
Date: 14.NOV.2019 11:58:27



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

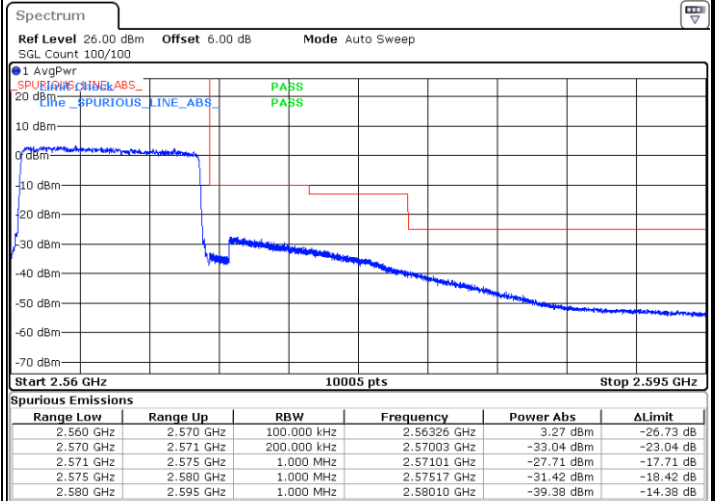
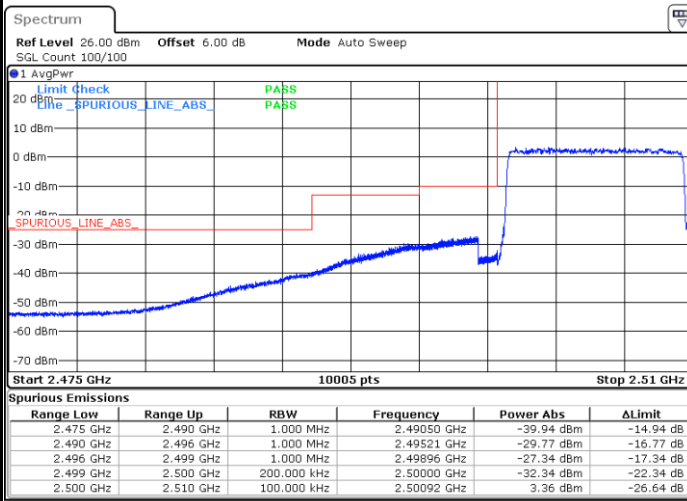


Date: 14.NOV.2019 17:41:37

Date: 14.NOV.2019 17:43:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



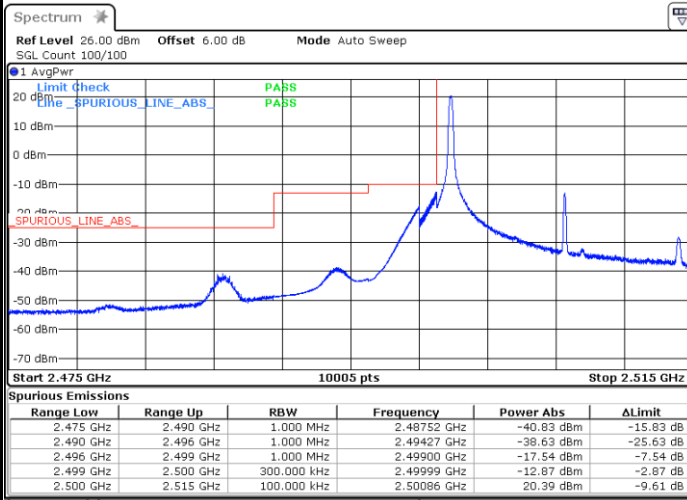
Date: 14.NOV.2019 11:56:10

Date: 14.NOV.2019 11:59:35



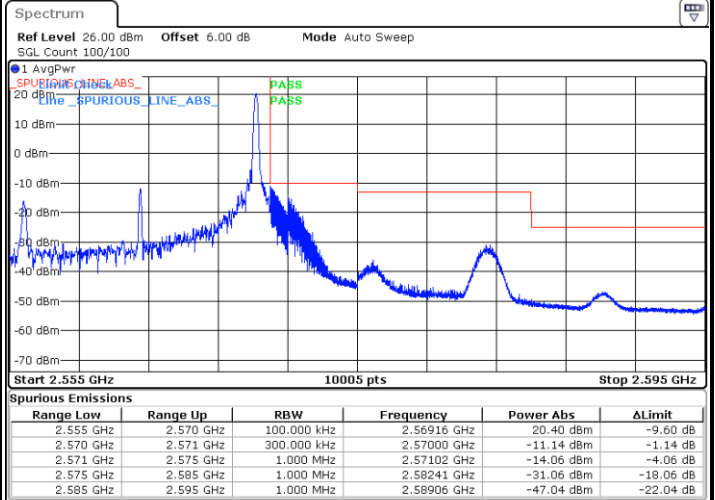
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



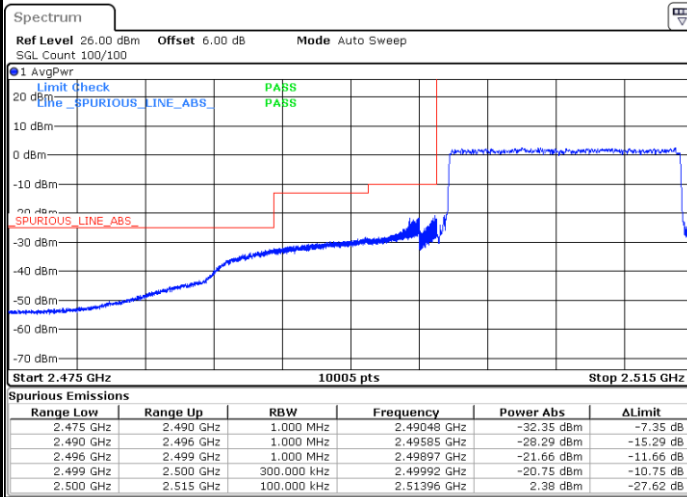
Date: 14.NOV.2019 17:46:14

Highest Band Edge / 1 RB



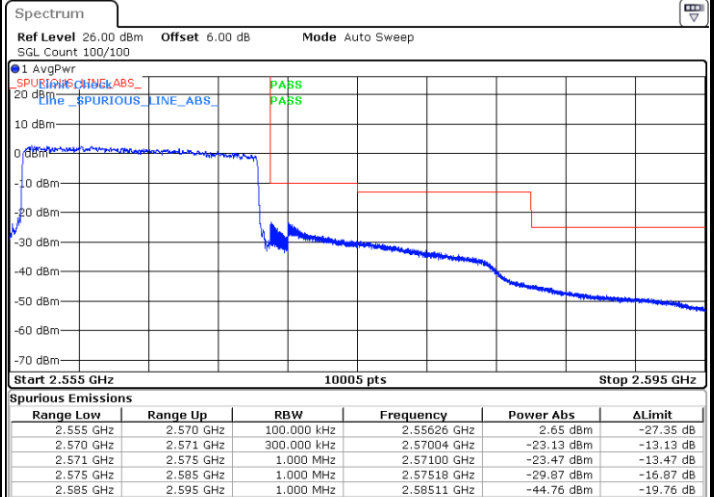
Date: 14.NOV.2019 13:51:13

Lowest Band Edge / Full RB



Date: 15.NOV.2019 15:18:38

Highest Band Edge / Full RB

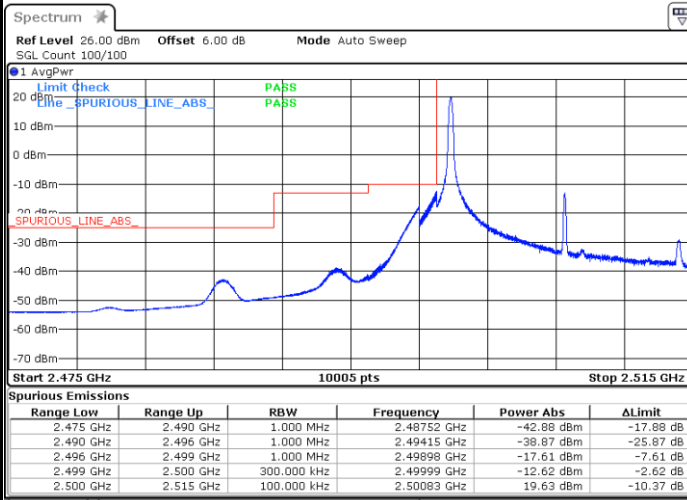


Date: 15.NOV.2019 15:20:07



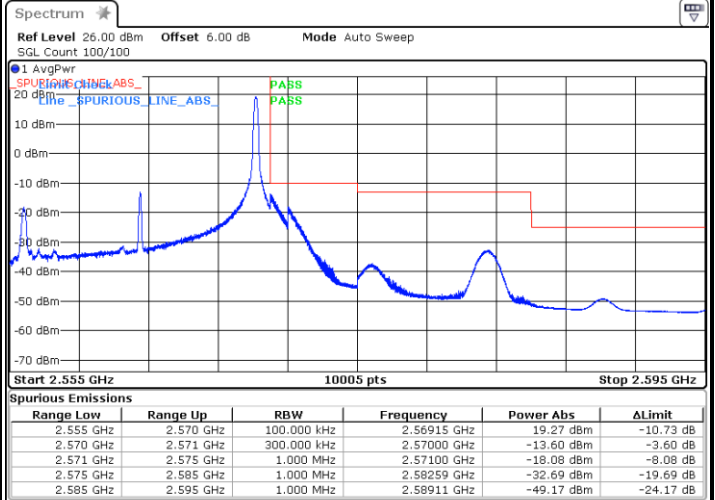
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



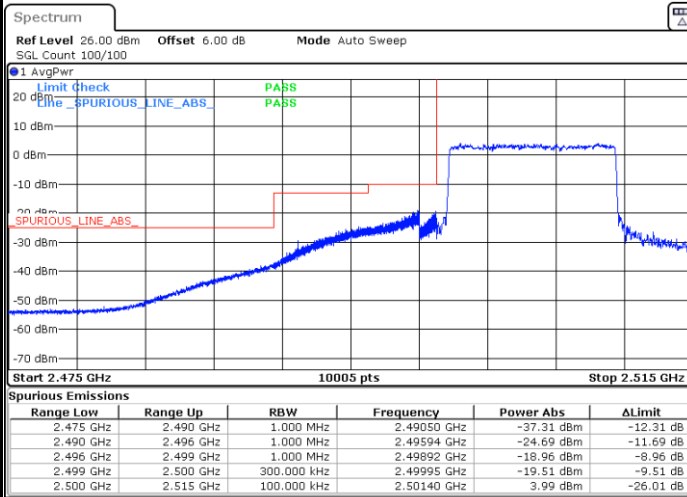
Date: 14.NOV.2019 17:50:26

Highest Band Edge / 1 RB



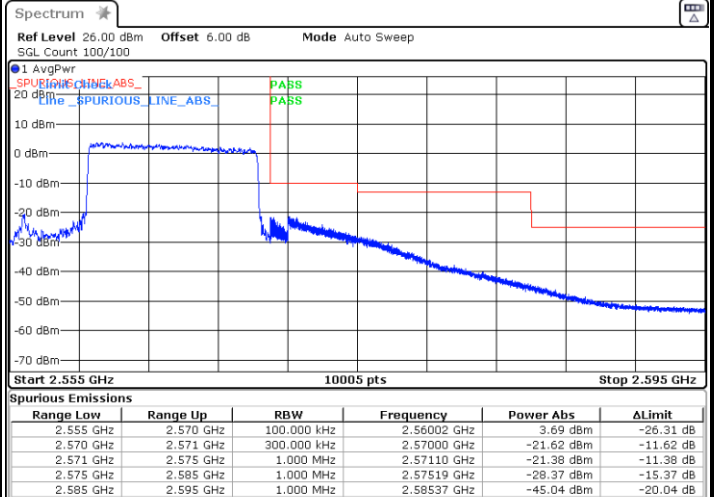
Date: 14.NOV.2019 17:52:34

Lowest Band Edge / Full RB



Date: 26.NOV.2019 09:07:05

Highest Band Edge / Full RB



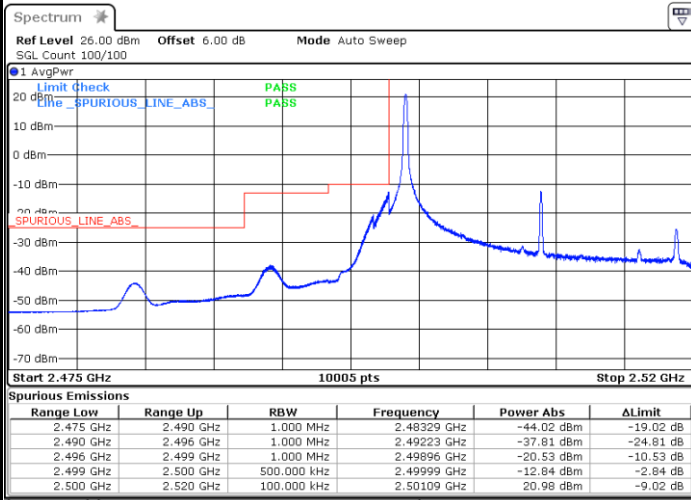
Date: 26.NOV.2019 09:10:11



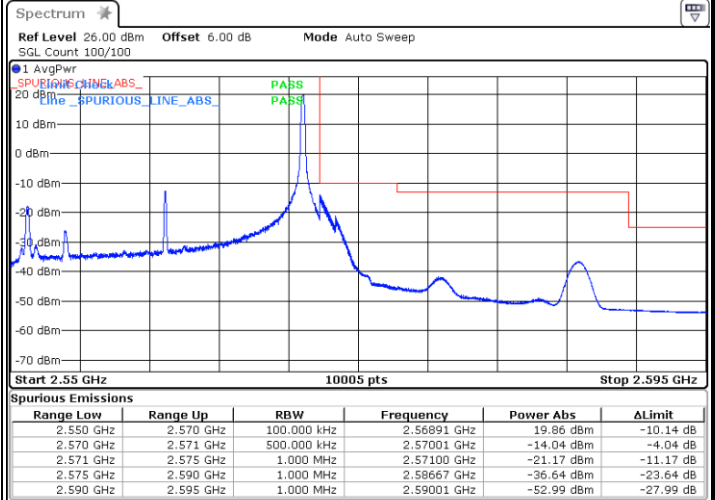
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



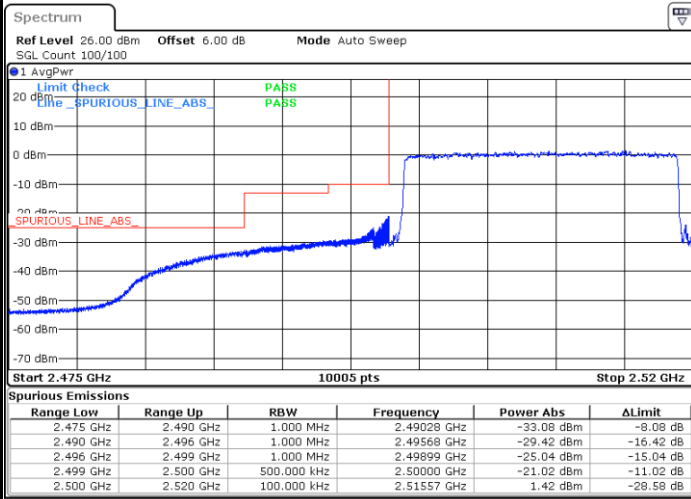
Date: 14.NOV.2019 17:55:04



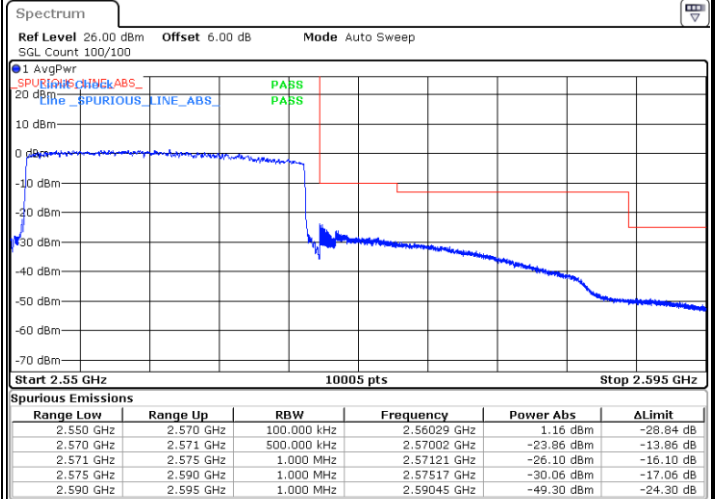
Date: 14.NOV.2019 17:59:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.NOV.2019 15:21:27



Date: 15.NOV.2019 15:22:30