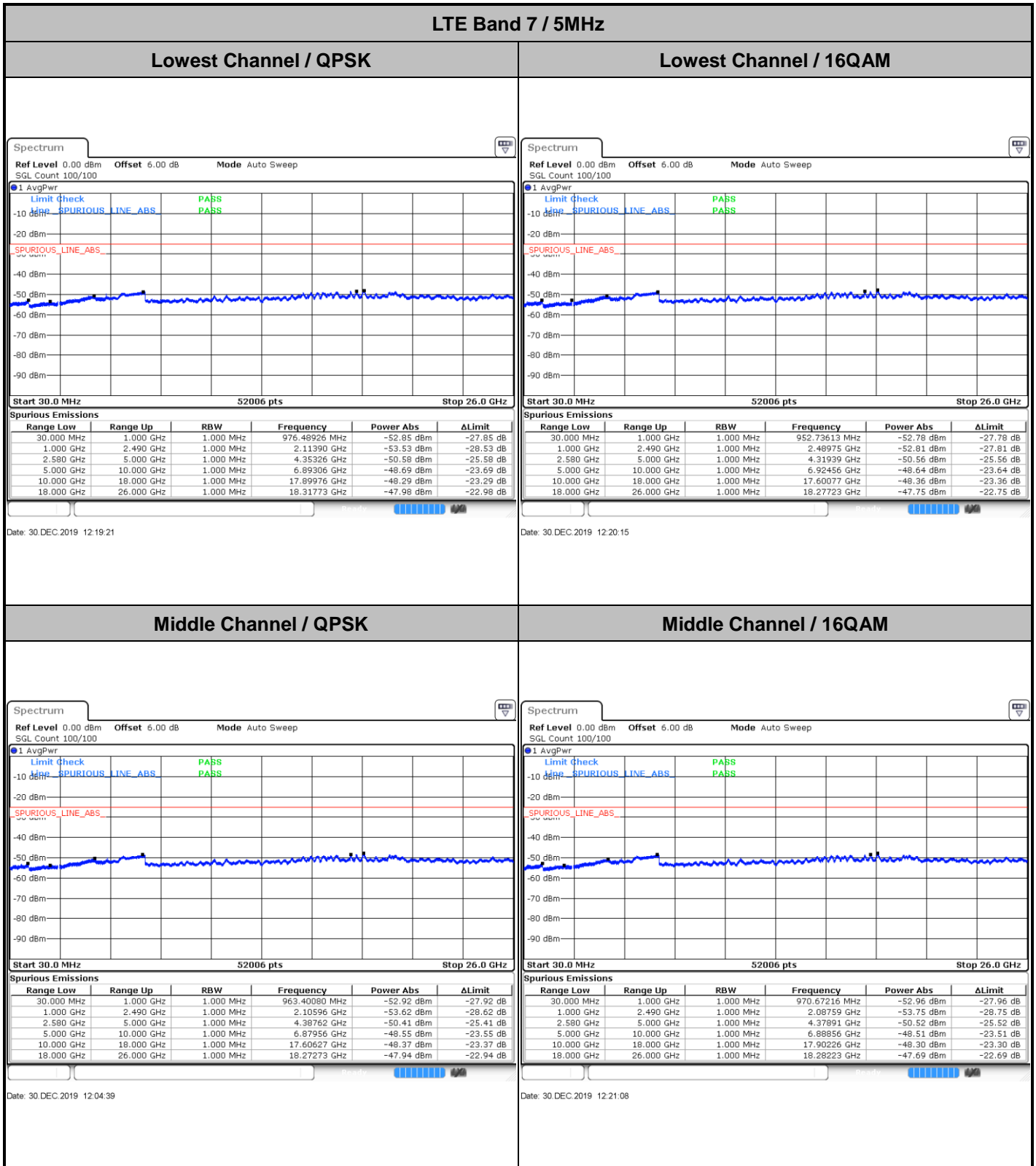




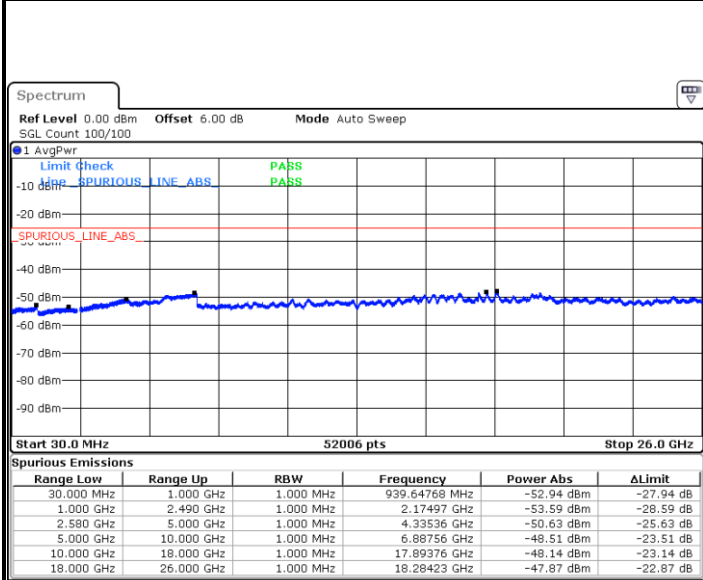
Conducted Spurious Emission





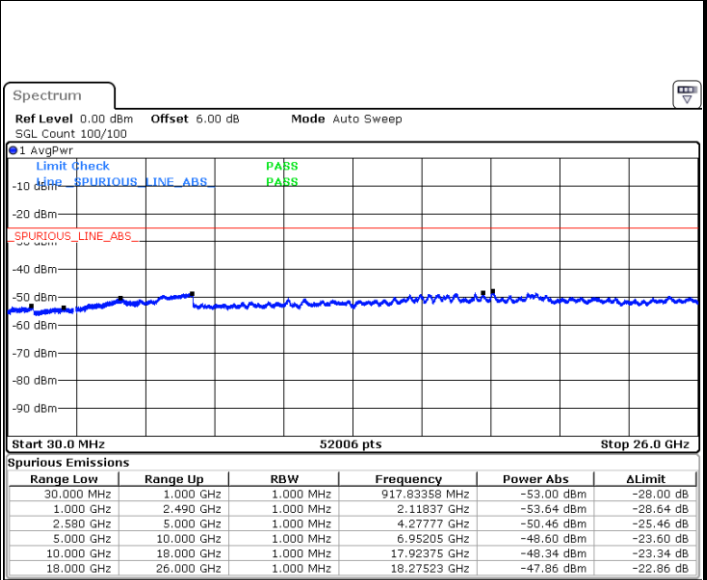
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 30 DEC 2019 12:22:01

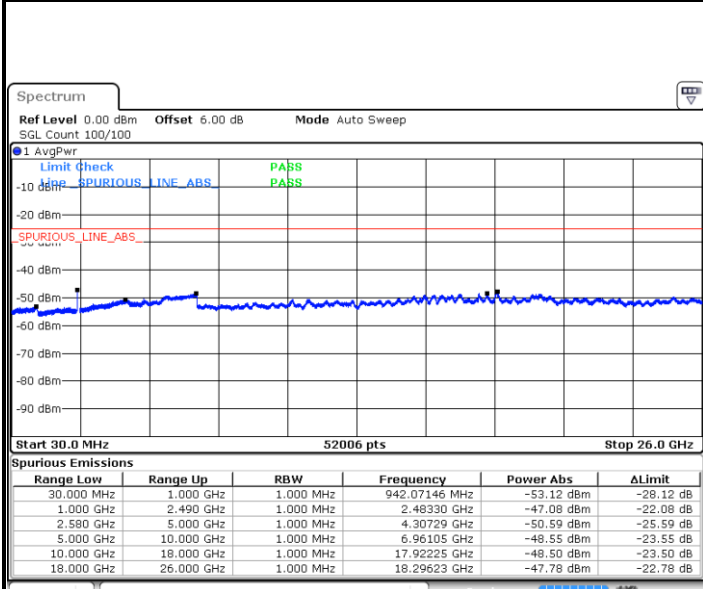
Highest Channel / 16QAM



Date: 30 DEC 2019 12:22:54

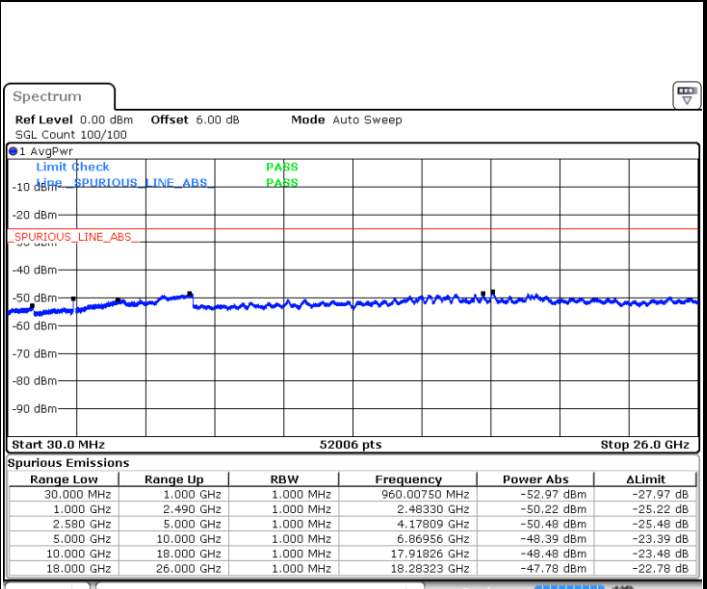
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 30 DEC 2019 12:34:58

Lowest Channel / 16QAM



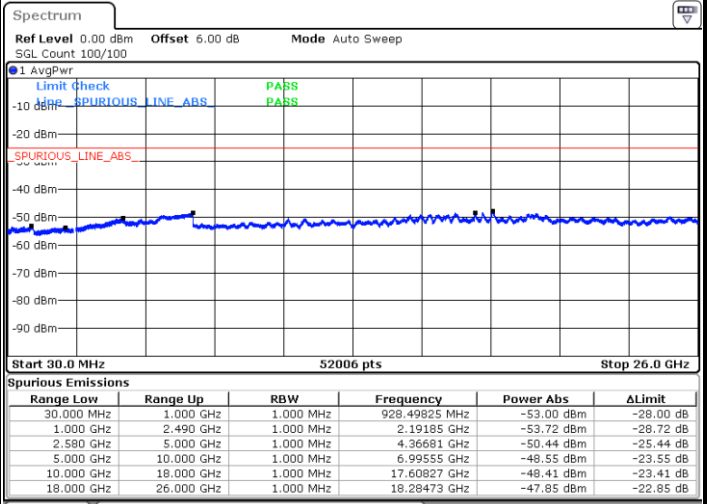
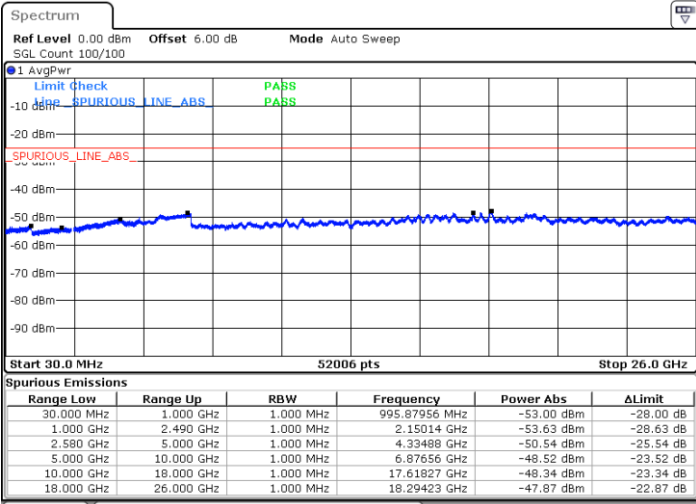
Date: 30 DEC 2019 12:35:52



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

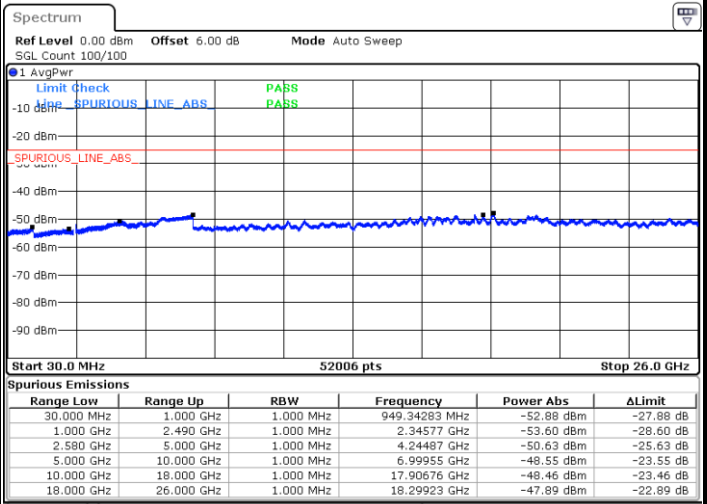
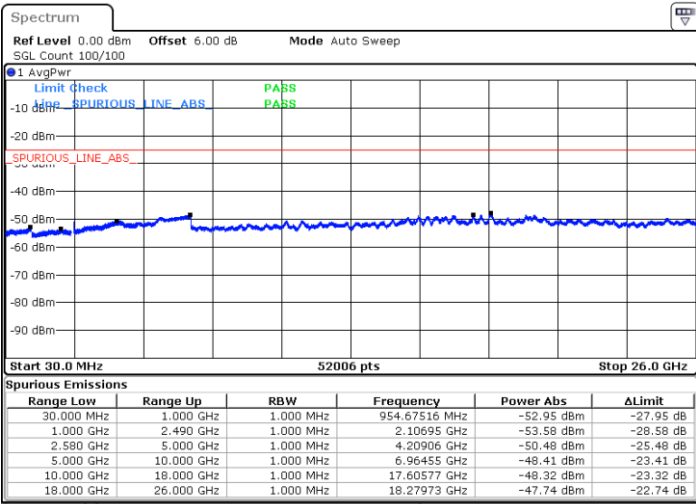


Date: 30 DEC.2019 12:37:38

Date: 30 DEC.2019 12:36:45

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30 DEC.2019 12:38:31

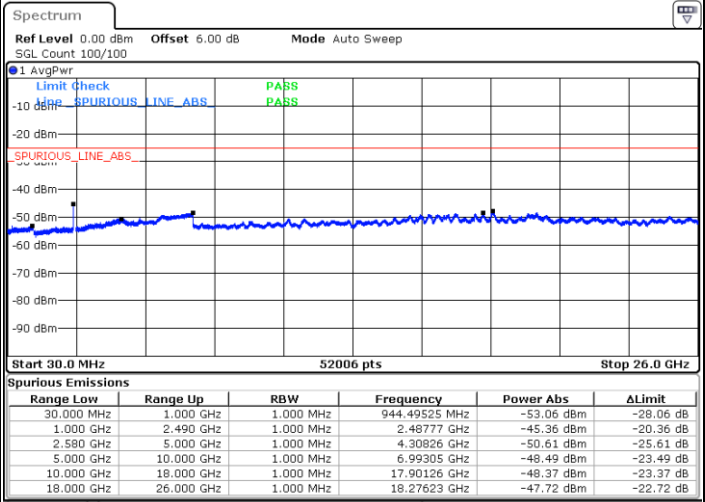
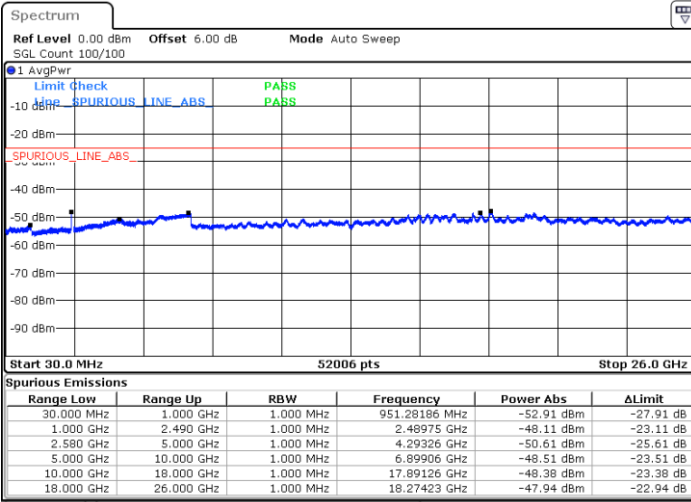
Date: 30 DEC.2019 12:39:24



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

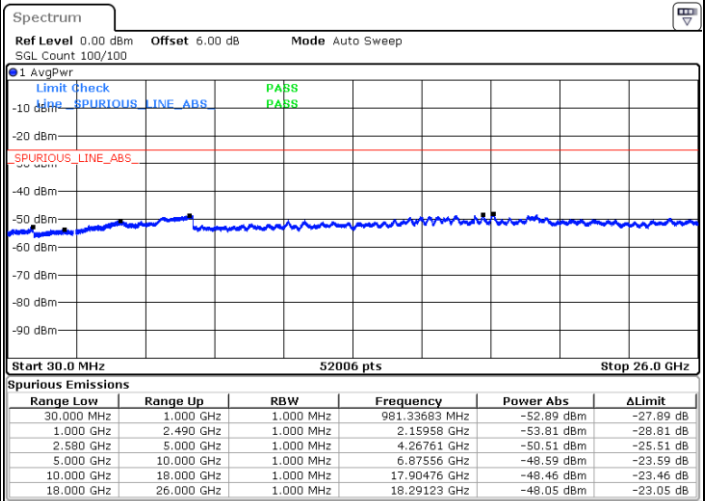
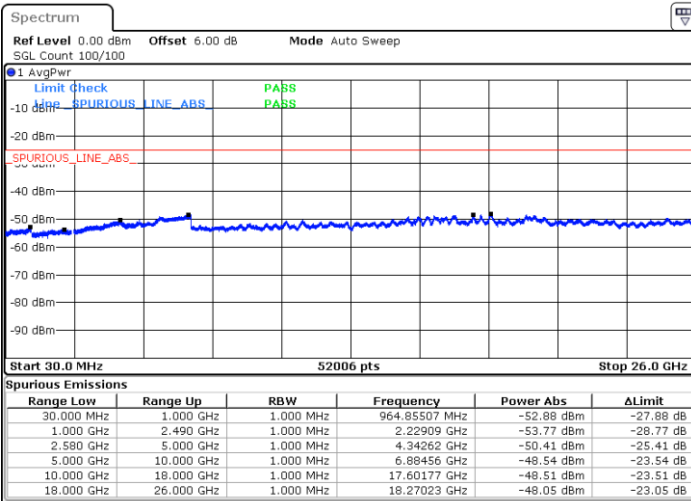


Date: 30 DEC 2019 12:51:29

Date: 30 DEC 2019 12:52:22

Middle Channel / QPSK

Middle Channel / 16QAM



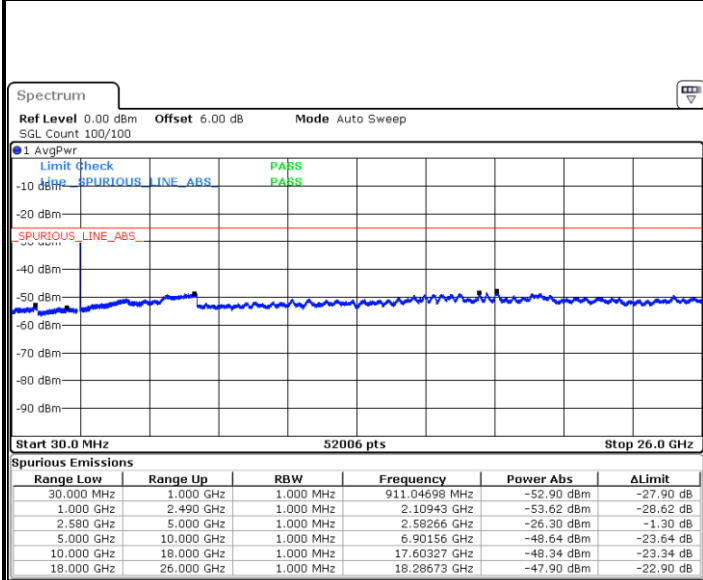
Date: 30 DEC 2019 13:53:08

Date: 30 DEC 2019 12:53:15



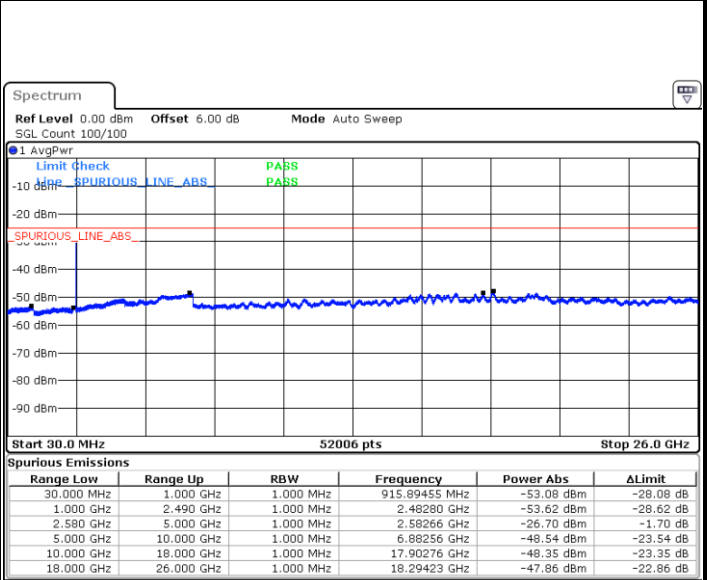
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 30 DEC 2019 13:54:06

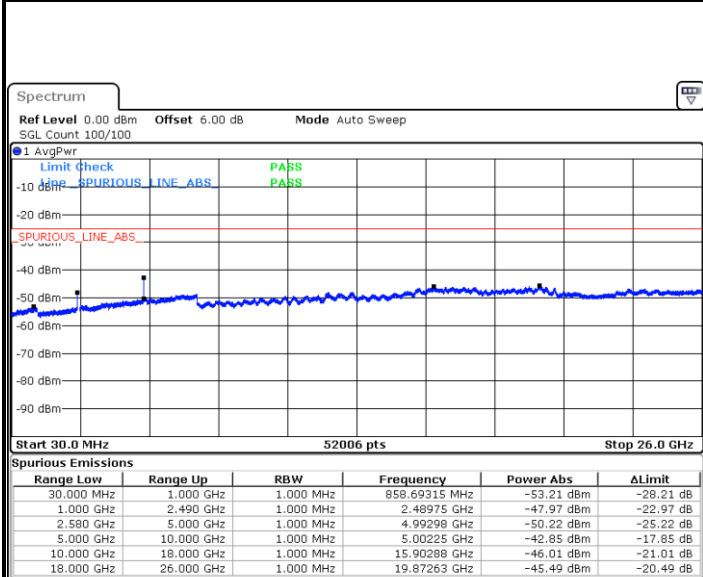
Highest Channel / 16QAM



Date: 30 DEC 2019 13:55:07

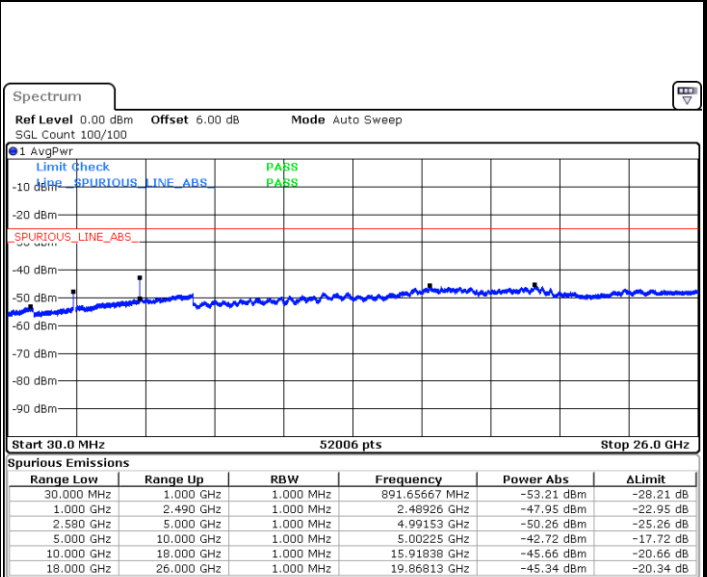
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 30 DEC 2019 14:41:38

Lowest Channel / 16QAM



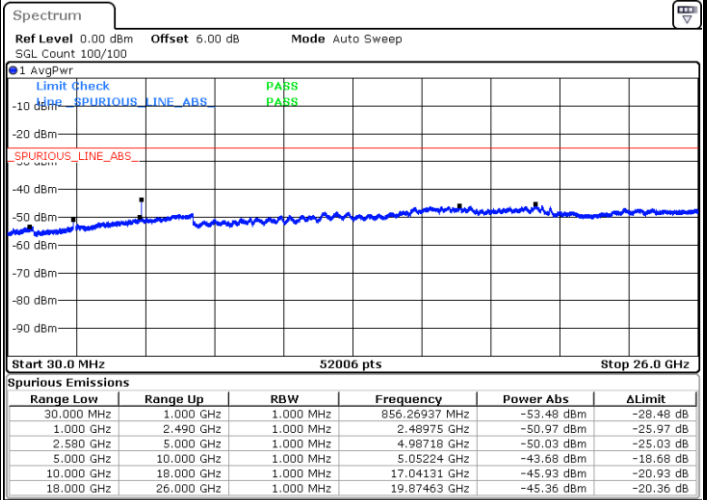
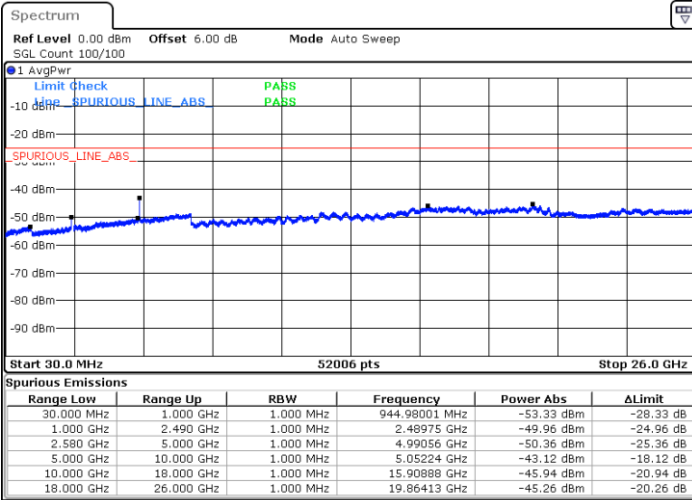
Date: 30 DEC 2019 14:42:32



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

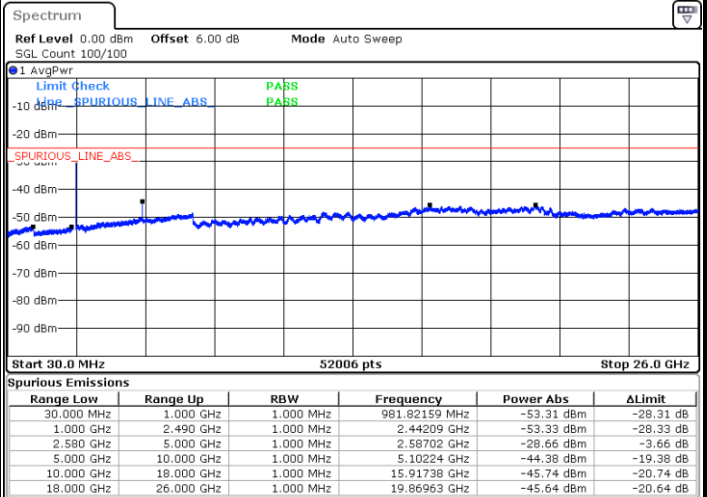
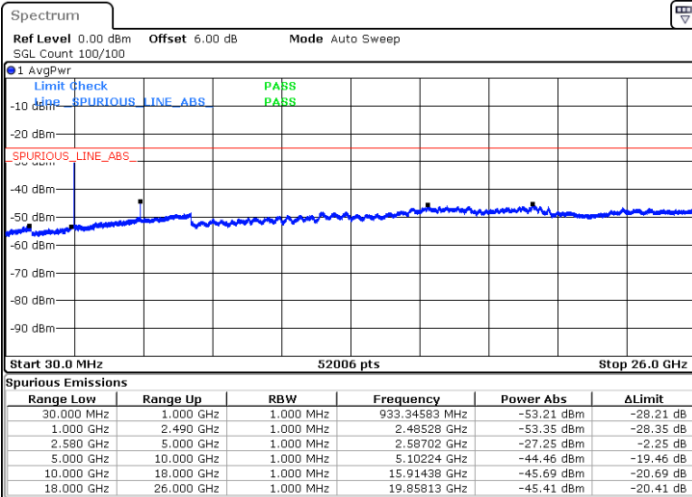


Date: 30 DEC 2019 14:44:20

Date: 30 DEC 2019 14:43:26

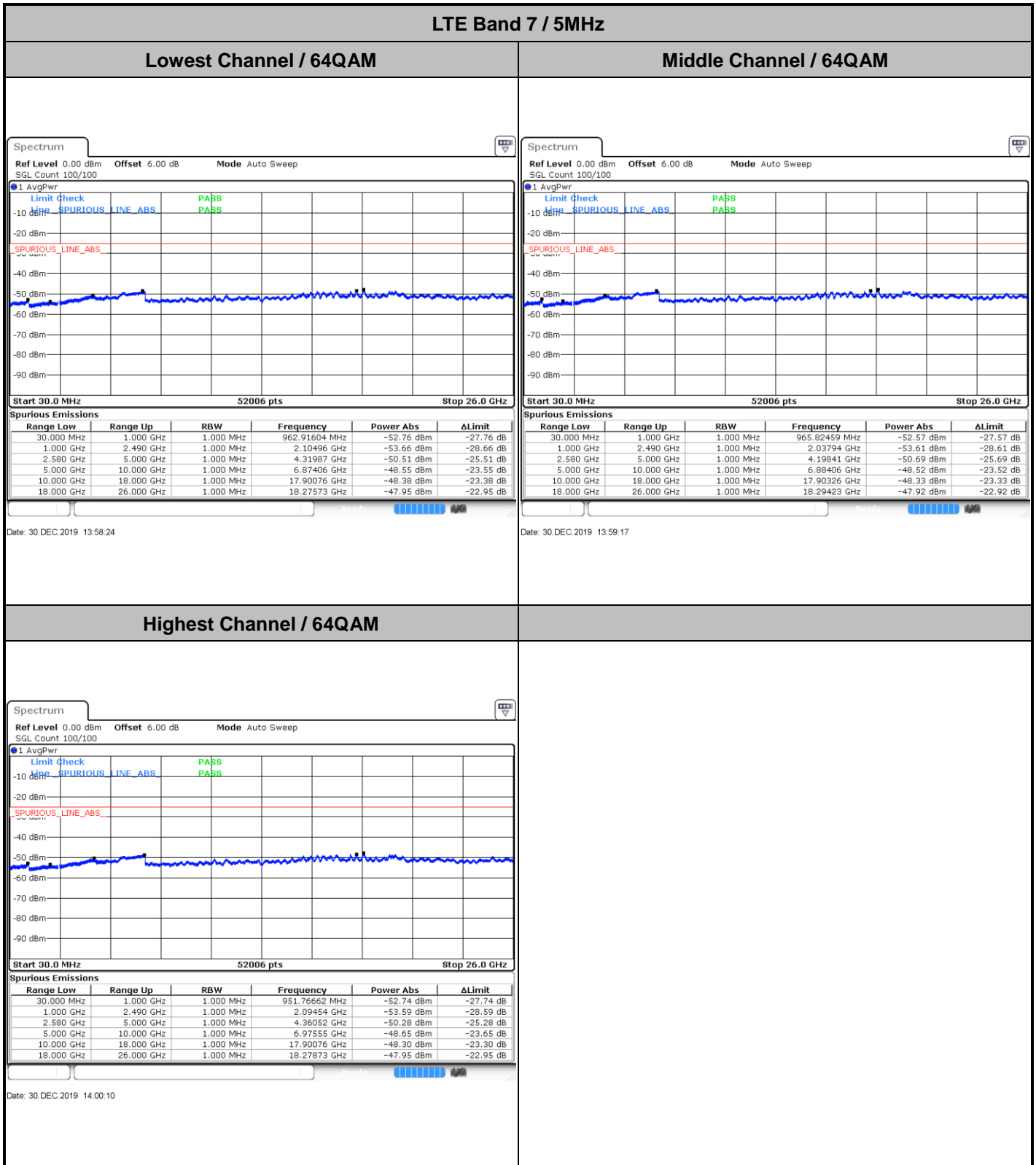
Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30 DEC 2019 14:45:14

Date: 30 DEC 2019 14:46:08

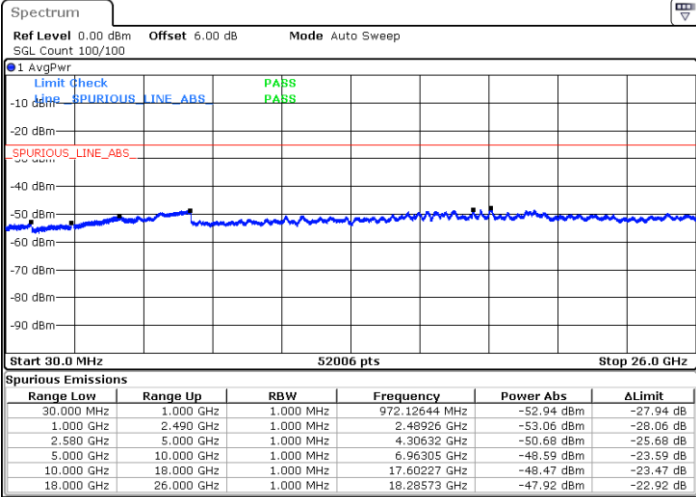




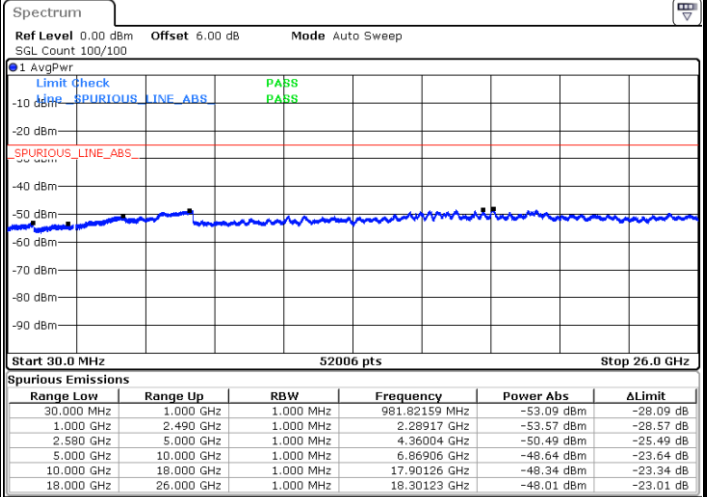
LTE Band 7 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

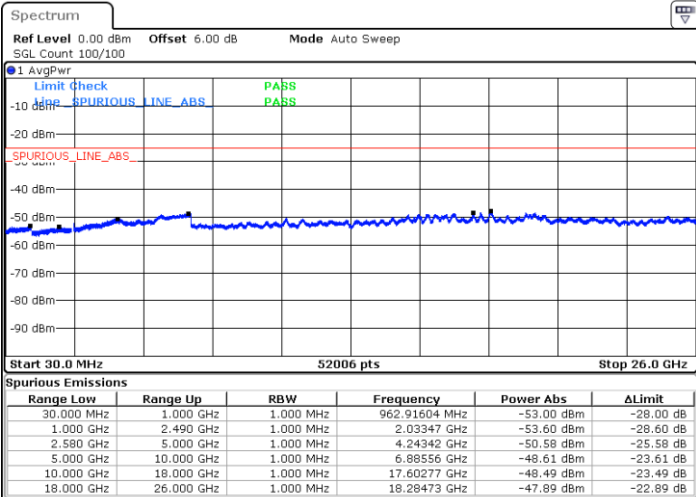


Date: 30.DEC.2019 14:04:22



Date: 30.DEC.2019 14:05:15

Highest Channel / 64QAM



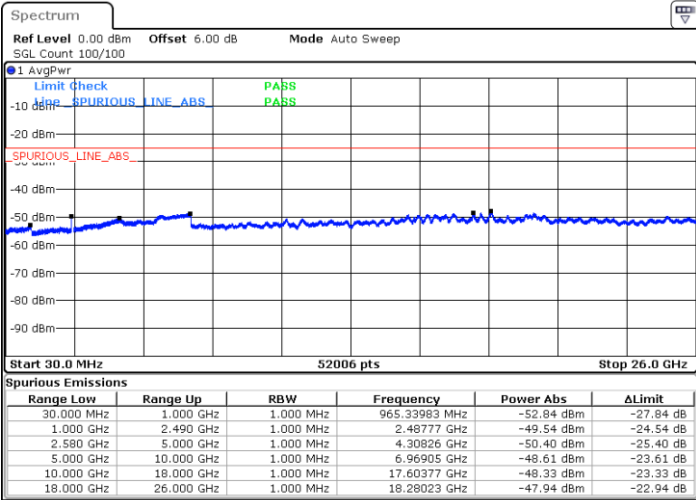
Date: 30.DEC.2019 14:06:08



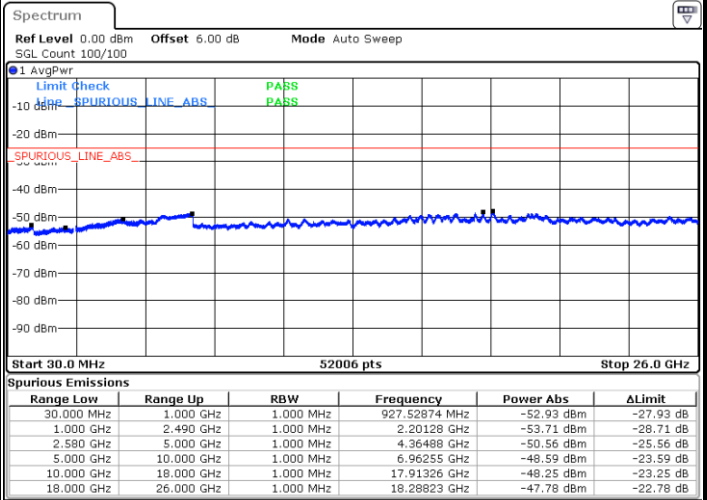
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

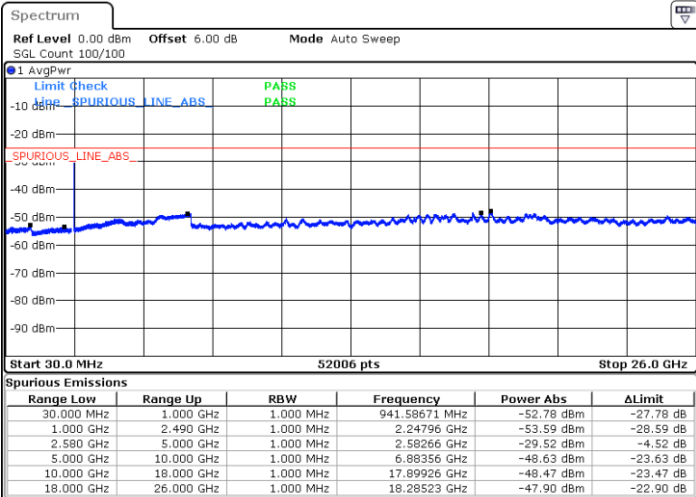


Date: 30.DEC.2019 14:12:38

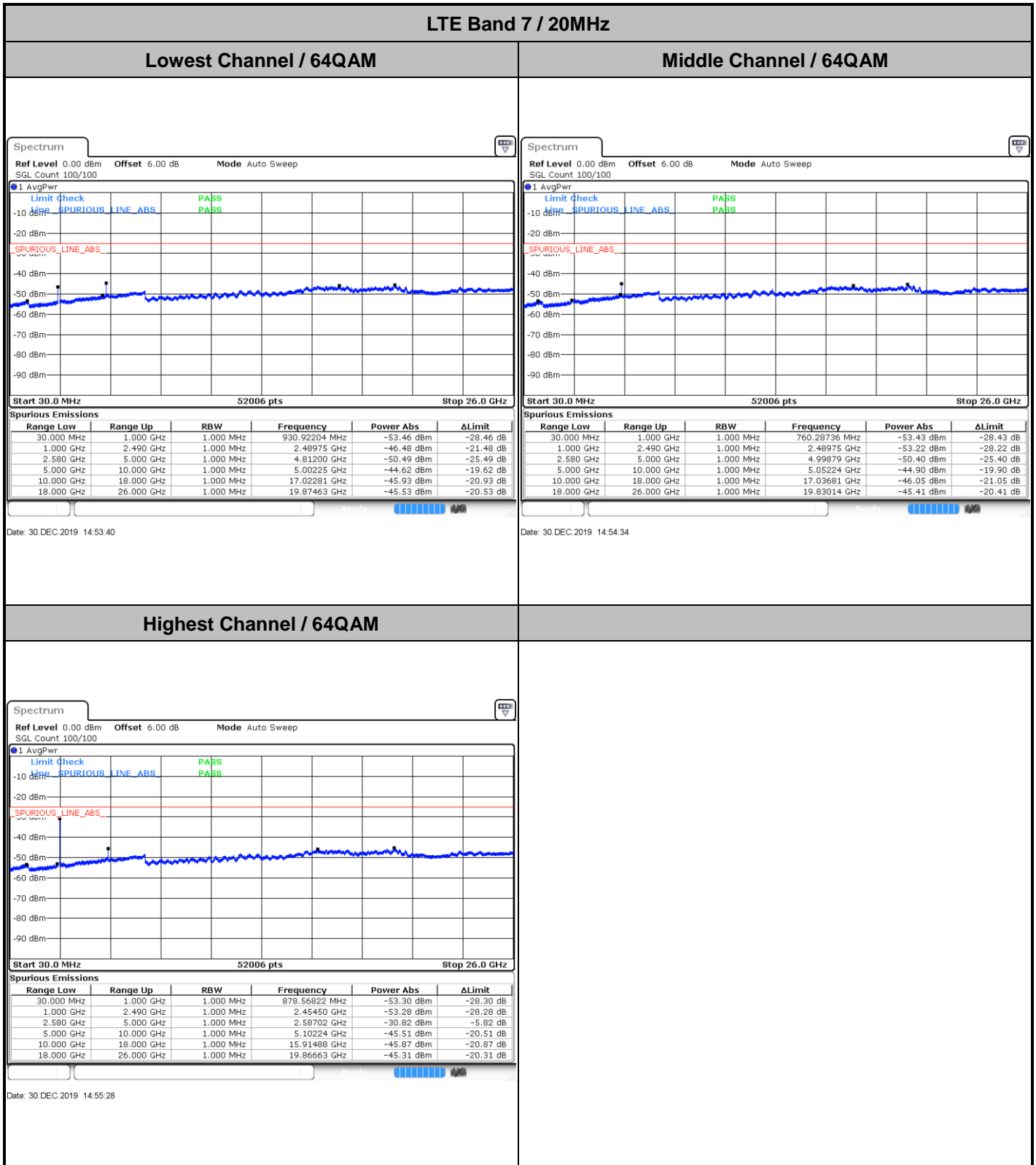


Date: 30.DEC.2019 14:13:31

Highest Channel / 64QAM



Date: 30.DEC.2019 14:14:24





Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

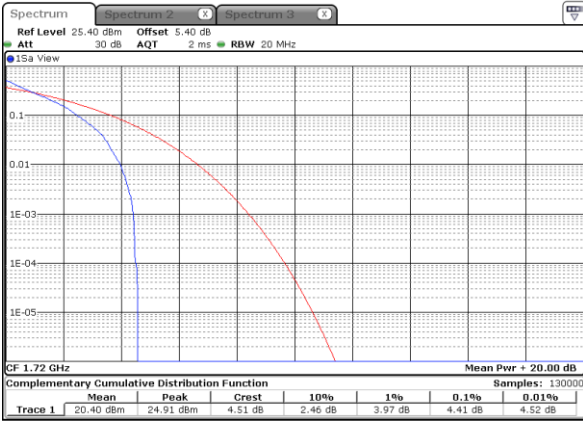
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.41	5.04	5.45	5.86	PASS
Middle CH	5.42	5.33	6.70	6.09	
Highest CH	4.96	5.13	6.09	6.14	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.28	5.94	-	-	PASS
Middle CH	6.46	6.14	-	-	
Highest CH	5.74	6.12	-	-	



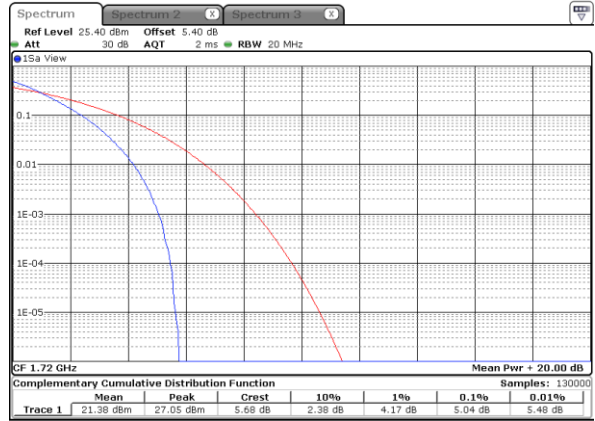
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



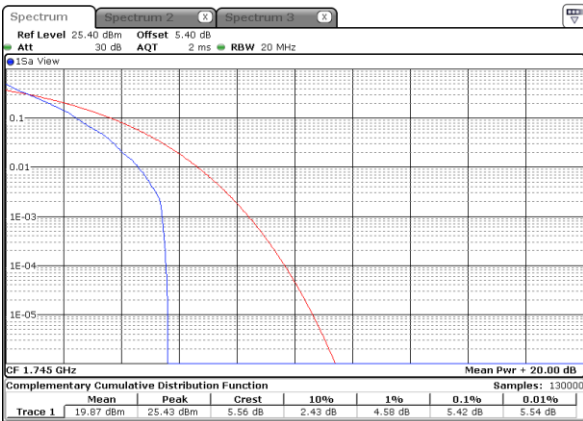
Date: 23 DEC 2019 07:16:02

Lowest Channel / Full RB



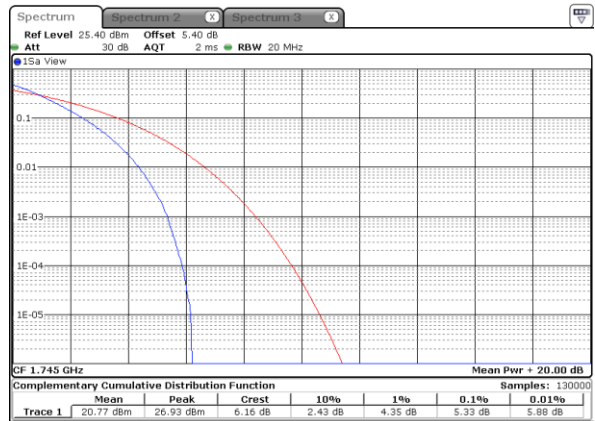
Date: 23 DEC 2019 07:12:57

Middle Channel / 1RB



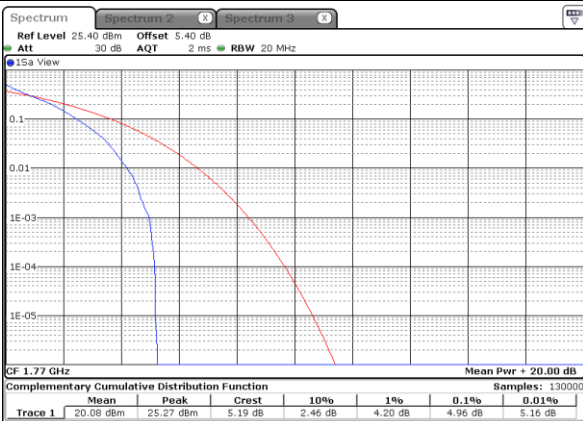
Date: 23 DEC 2019 07:22:33

Middle Channel / Full RB



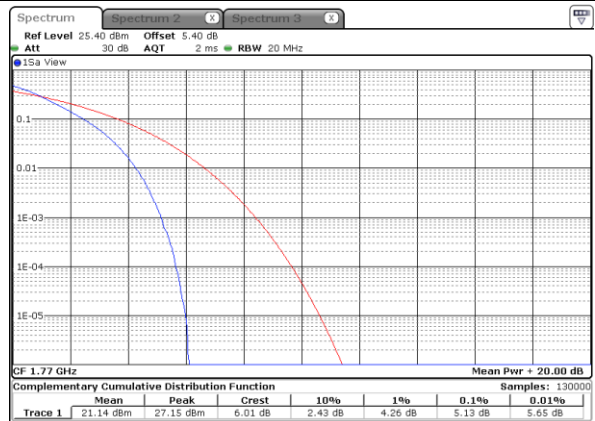
Date: 23 DEC 2019 07:26:48

Highest Channel / 1RB



Date: 23 DEC 2019 07:34:58

Highest Channel / Full RB

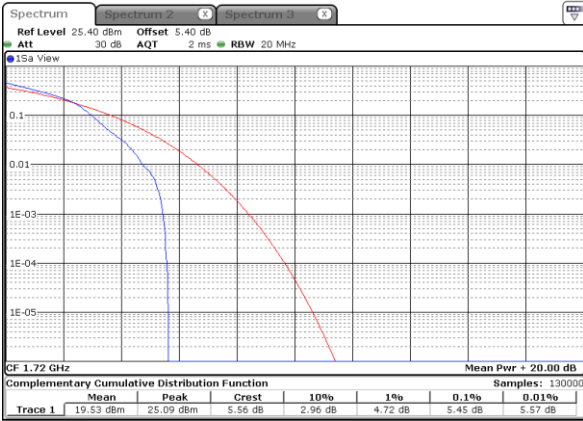


Date: 23 DEC 2019 07:29:10



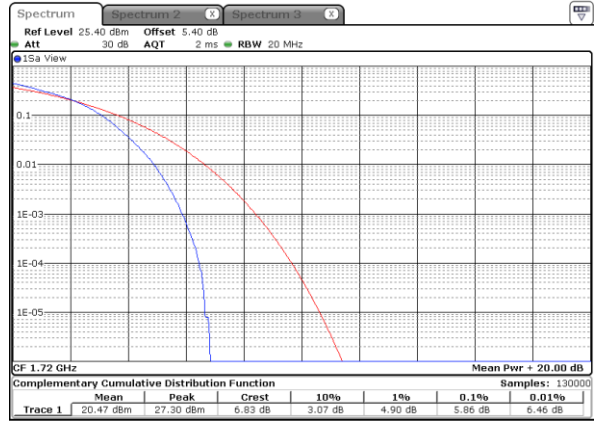
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



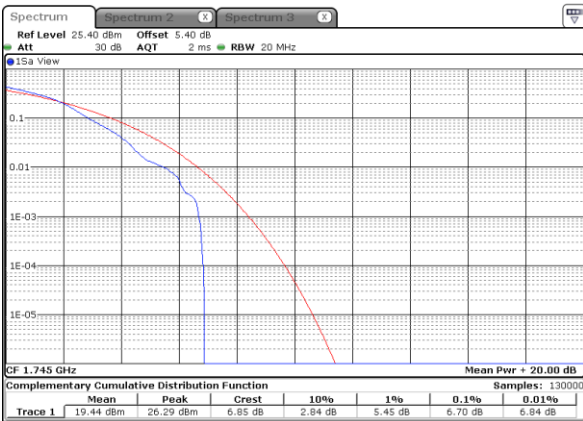
Date: 23 DEC 2019 07:17:06

Lowest Channel / Full RB



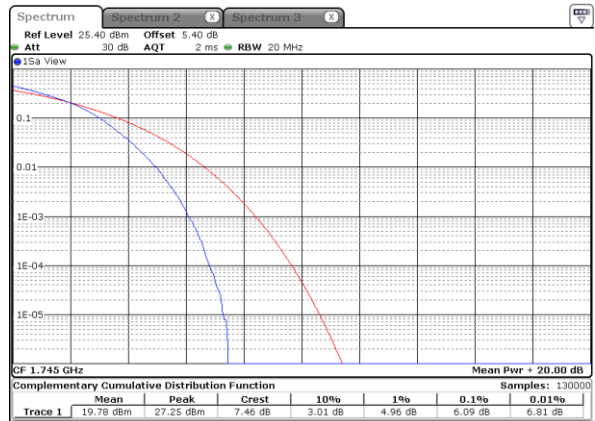
Date: 23 DEC 2019 07:12:10

Middle Channel / 1RB



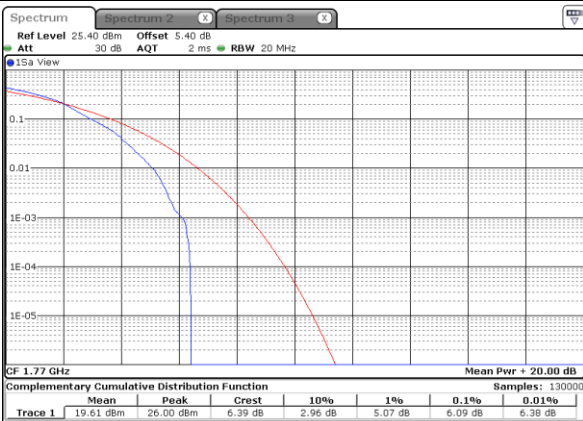
Date: 23 DEC 2019 07:21:17

Middle Channel / Full RB



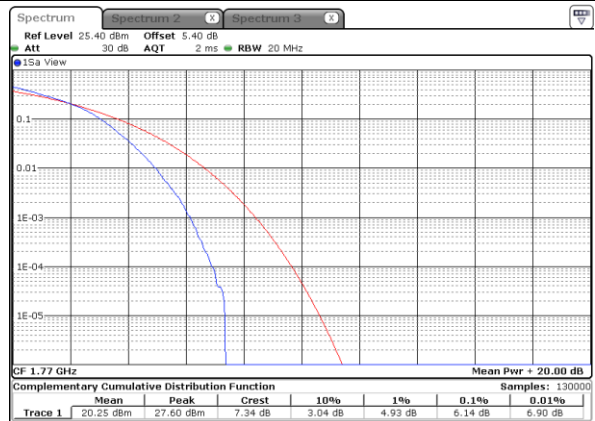
Date: 23 DEC 2019 07:26:20

Highest Channel / 1RB



Date: 23 DEC 2019 07:33:51

Highest Channel / Full RB

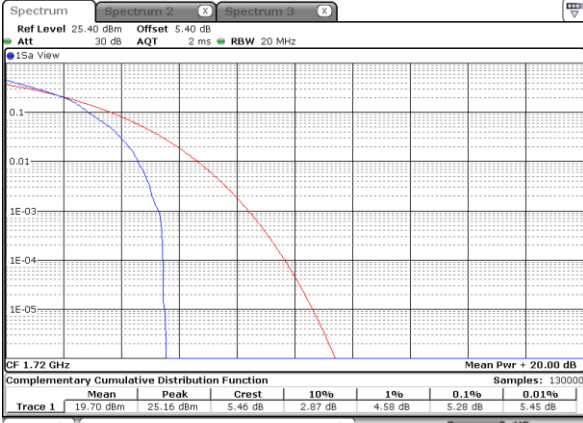


Date: 23 DEC 2019 07:30:04



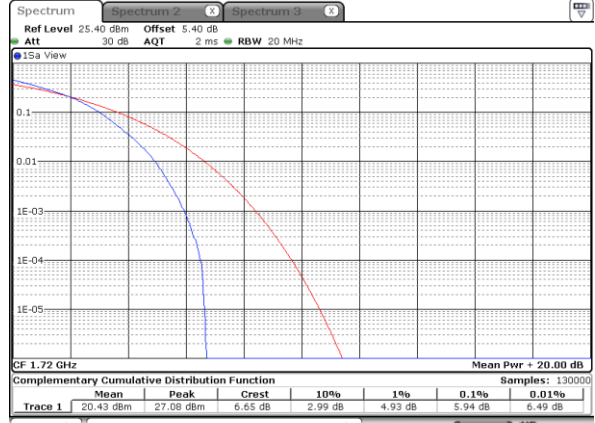
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



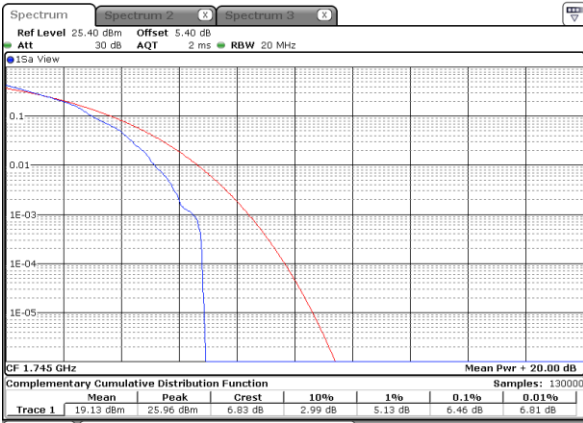
Date: 23 DEC 2019 07:18:08

Lowest Channel / Full RB



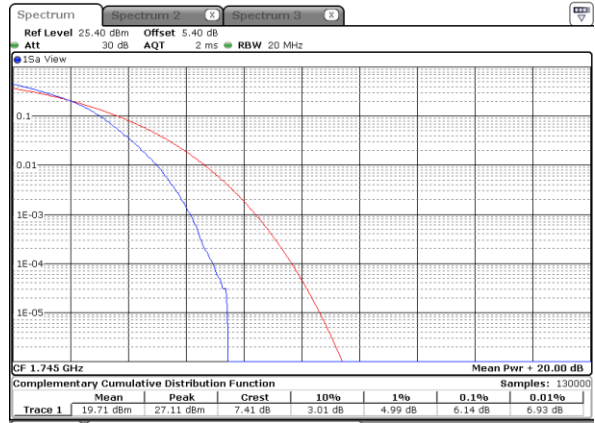
Date: 23 DEC 2019 07:11:32

Middle Channel / 1RB



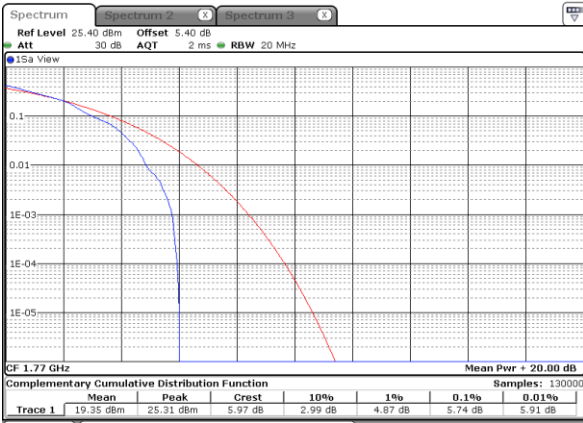
Date: 23 DEC 2019 07:24:02

Middle Channel / Full RB



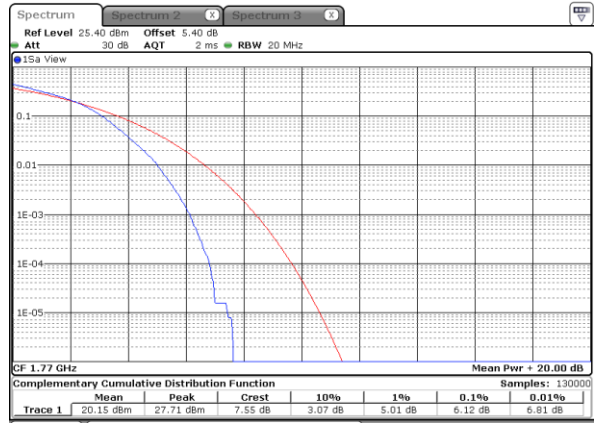
Date: 23 DEC 2019 07:25:42

Highest Channel / 1RB



Date: 23 DEC 2019 07:31:32

Highest Channel / Full RB



Date: 23 DEC 2019 07:30:51



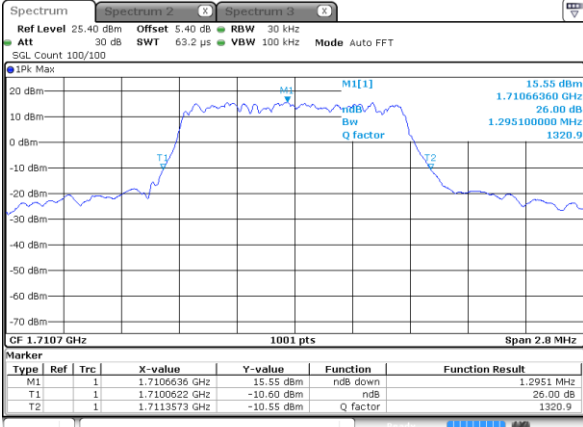
26dB Bandwidth

Mode	LTE Band 66 : 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	1.2951	1.2559	2.973	2.967	4.885	4.965	9.89	9.79	14.266	14.565	20.22	20.26
Middle CH	1.242	1.2476	2.9251	2.961	4.945	5.055	9.69	9.81	14.505	14.685	20.34	20.18
Highest CH	1.2783	1.2951	2.973	2.9311	5.075	4.855	9.93	9.75	14.356	14.775	20.3	20.18
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	1.2671	-	2.9491	-	4.935	-	9.63	-	14.565	-	20.22	-
Middle CH	1.2699	-	2.9371	-	5.005	-	9.65	-	14.745	-	20.46	-
Highest CH	1.2867	-	2.9311	-	5.185	-	9.75	-	14.715	-	19.98	-



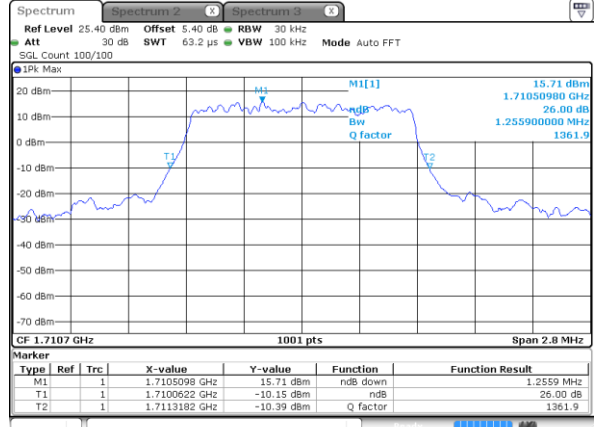
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



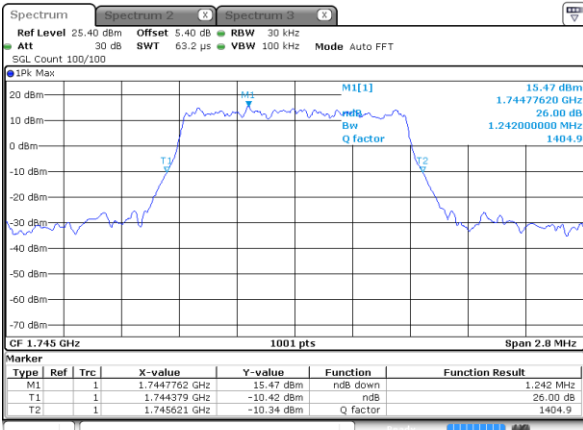
Date: 23 DEC 2019 05:37:55

Lowest Channel / 1.4MHz / 16QAM



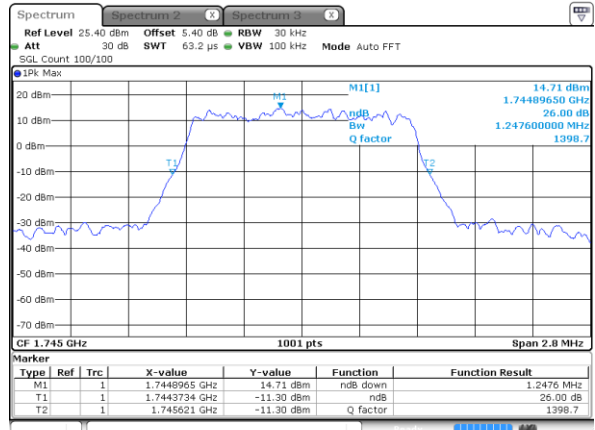
Date: 23 DEC 2019 05:40:16

Middle Channel / 1.4MHz / QPSK



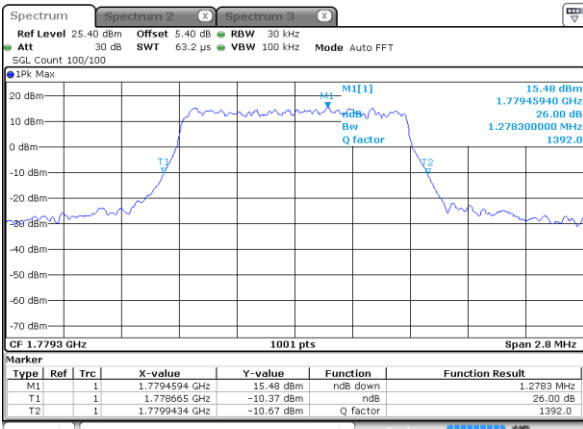
Date: 23 DEC 2019 05:27:28

Middle Channel / 1.4MHz / 16QAM



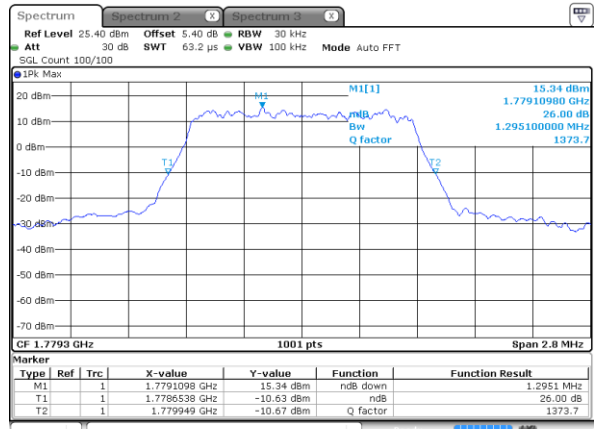
Date: 23 DEC 2019 05:26:39

Highest Channel / 1.4MHz / QPSK



Date: 23 DEC 2019 05:47:03

Highest Channel / 1.4MHz / 16QAM

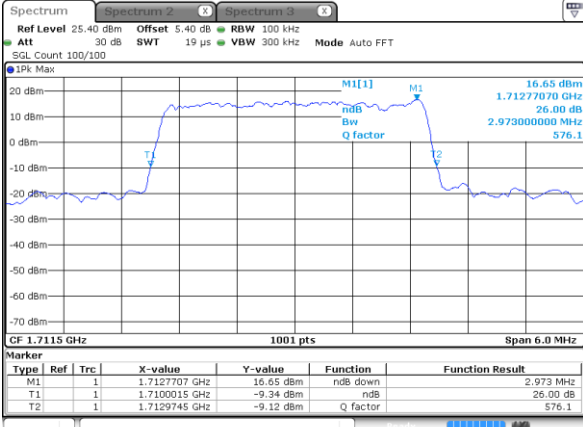


Date: 23 DEC 2019 05:46:28



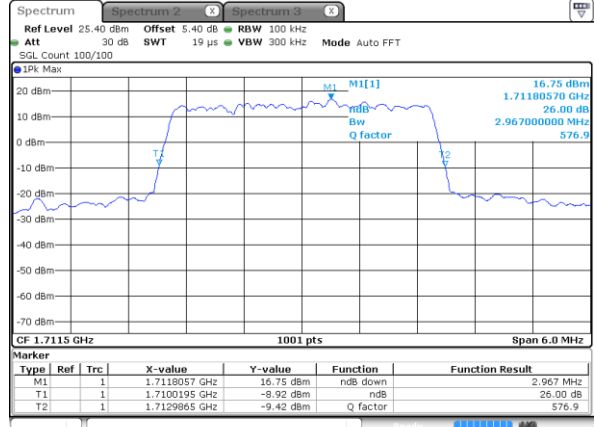
LTE Band 66

Lowest Channel / 3MHz / QPSK



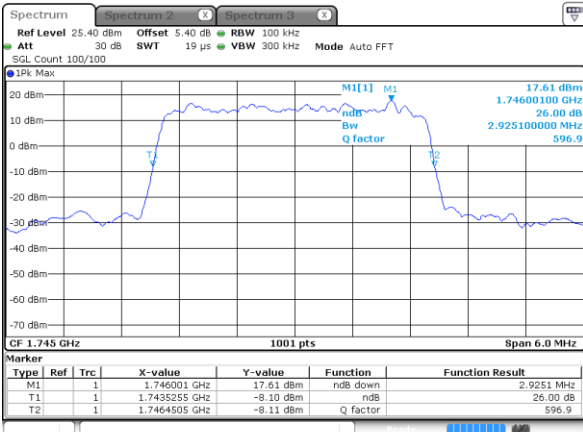
Date: 23 DEC 2019 06:32:02

Lowest Channel / 3MHz / 16QAM



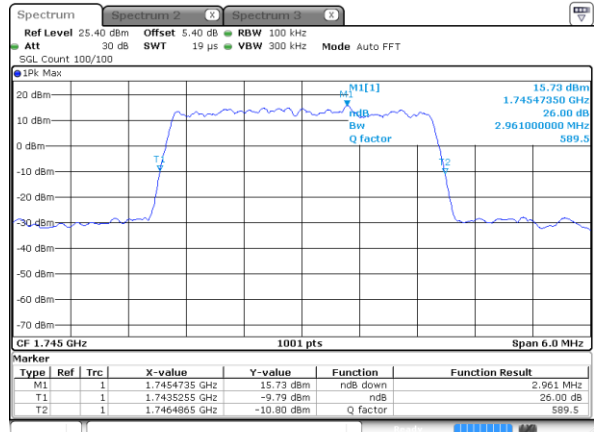
Date: 23 DEC 2019 06:30:56

Middle Channel / 3MHz / QPSK



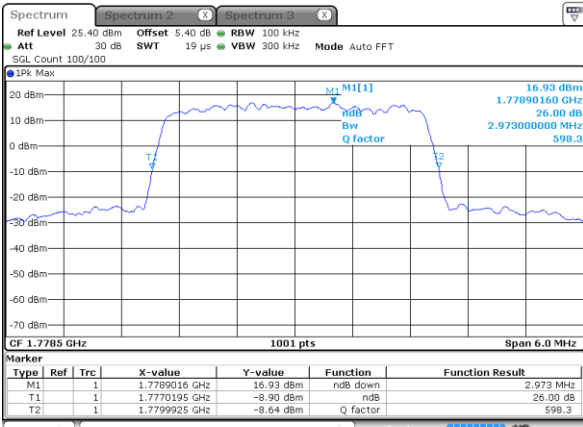
Date: 23 DEC 2019 06:28:46

Middle Channel / 3MHz / 16QAM



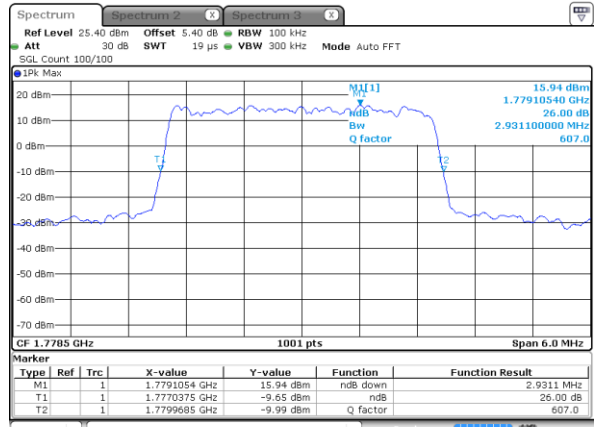
Date: 23 DEC 2019 06:29:09

Highest Channel / 3MHz / QPSK



Date: 23 DEC 2019 06:16:08

Highest Channel / 3MHz / 16QAM

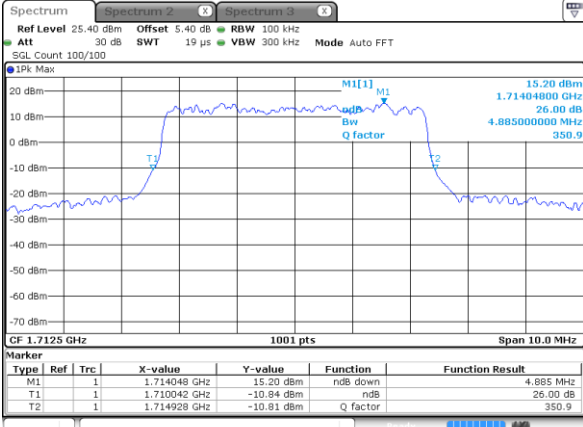


Date: 23 DEC 2019 06:17:22



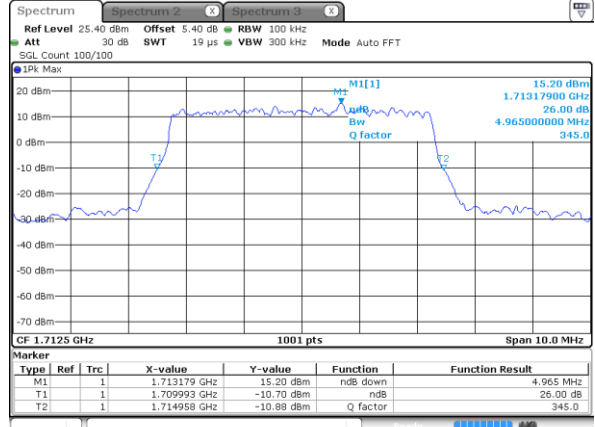
LTE Band 66

Lowest Channel / 5MHz / QPSK



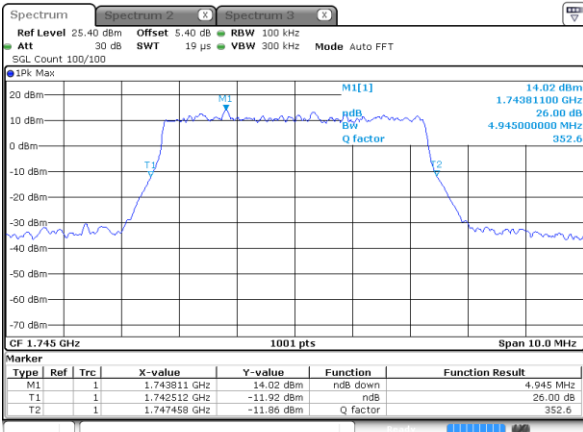
Date: 23 DEC 2019 05:14:00

Lowest Channel / 5MHz / 16QAM



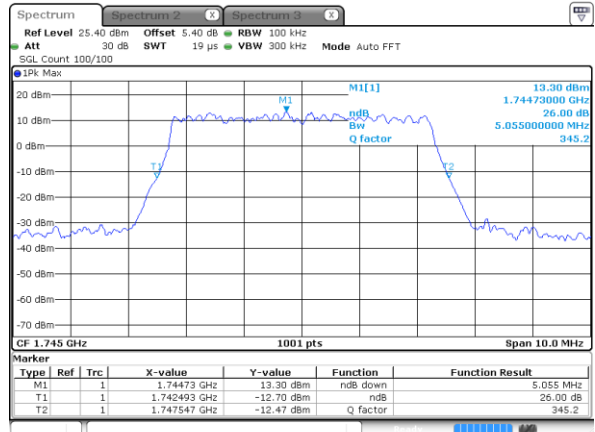
Date: 23 DEC 2019 05:08:38

Middle Channel / 5MHz / QPSK



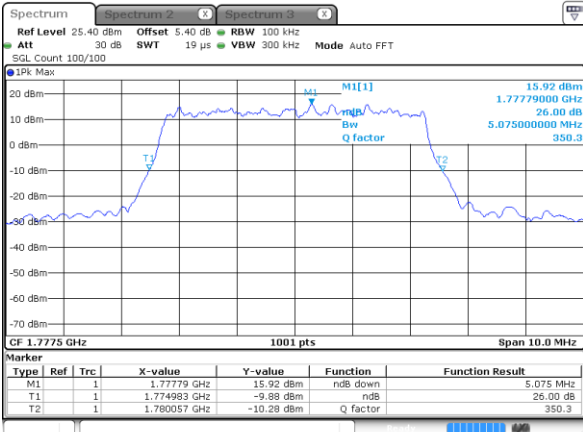
Date: 23 DEC 2019 05:07:28

Middle Channel / 5MHz / 16QAM



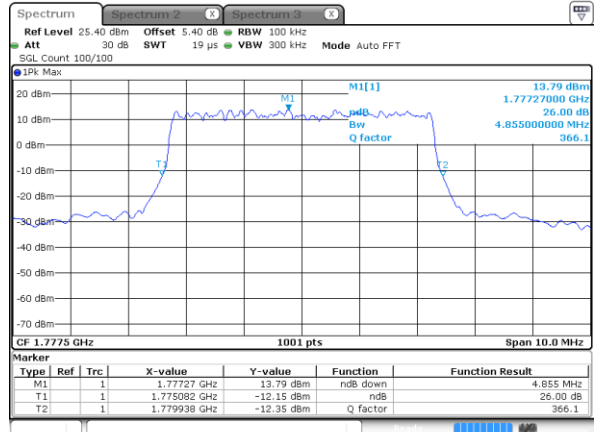
Date: 23 DEC 2019 05:06:55

Highest Channel / 5MHz / QPSK



Date: 23 DEC 2019 05:15:25

Highest Channel / 5MHz / 16QAM

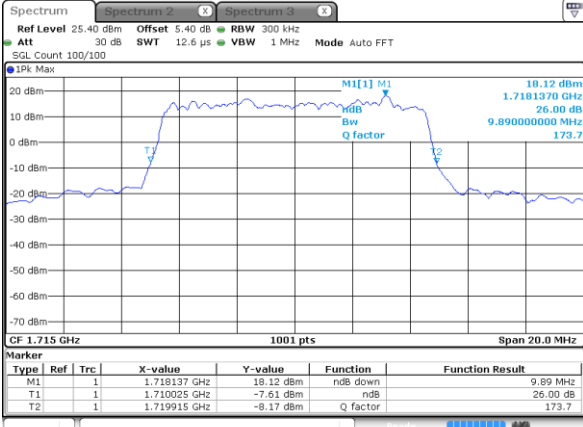


Date: 23 DEC 2019 05:16:13



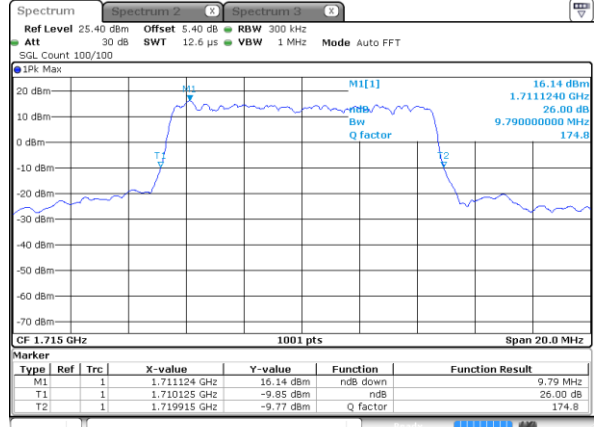
LTE Band 66

Lowest Channel / 10MHz / QPSK



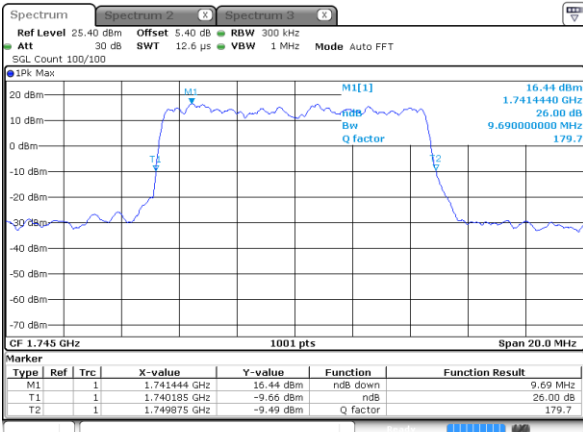
Date: 23 DEC 2019 06:39:49

Lowest Channel / 10MHz / 16QAM



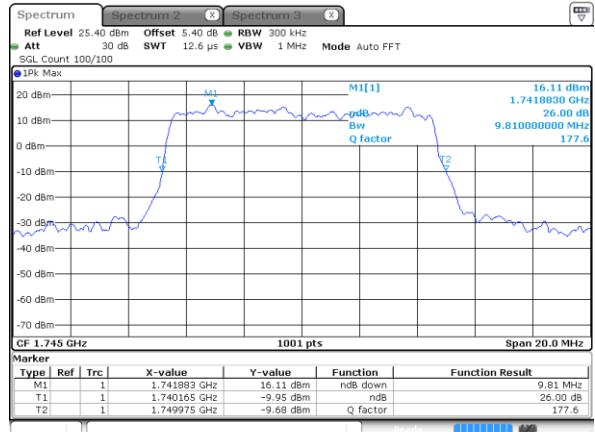
Date: 23 DEC 2019 06:39:24

Middle Channel / 10MHz / QPSK



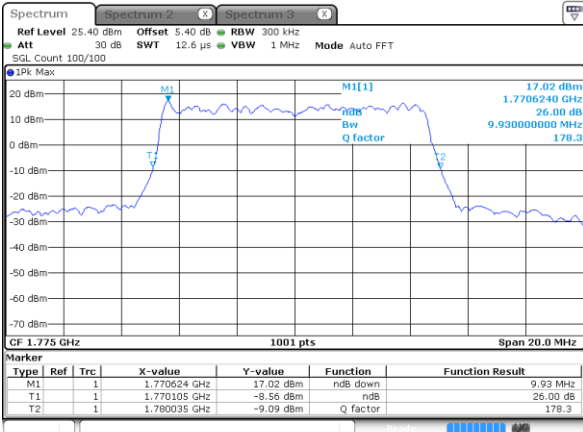
Date: 23 DEC 2019 06:45:37

Middle Channel / 10MHz / 16QAM



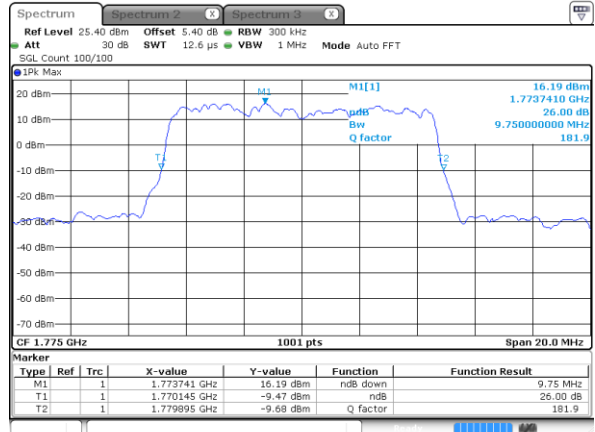
Date: 23 DEC 2019 06:45:57

Highest Channel / 10MHz / QPSK



Date: 23 DEC 2019 06:47:58

Highest Channel / 10MHz / 16QAM

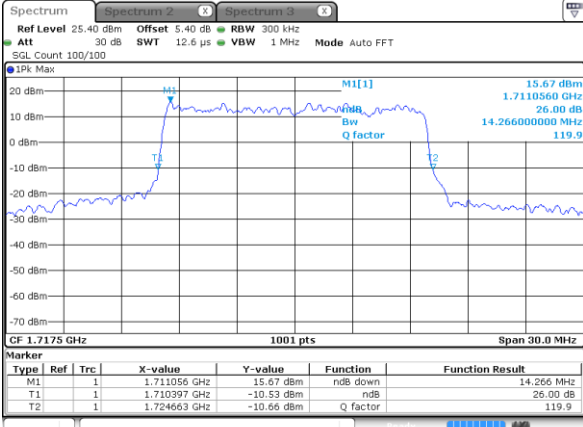


Date: 23 DEC 2019 06:47:24



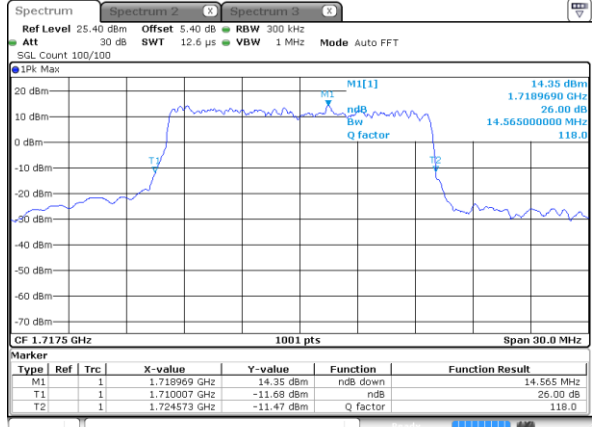
LTE Band 66

Lowest Channel / 15MHz / QPSK



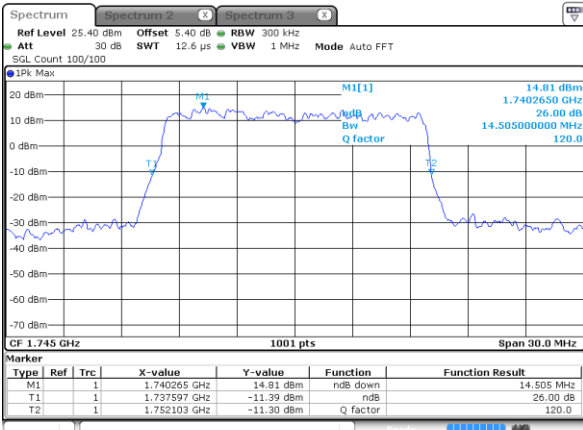
Date: 23 DEC 2019 07:07:20

Lowest Channel / 15MHz / 16QAM



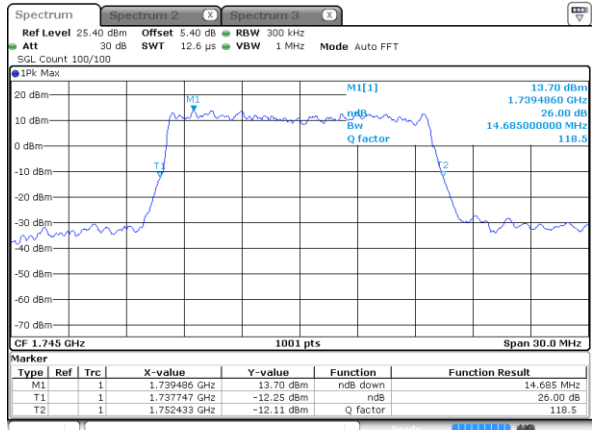
Date: 23 DEC 2019 07:06:49

Middle Channel / 15MHz / QPSK



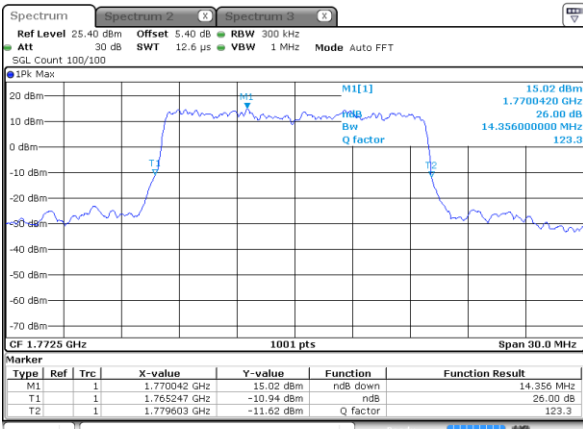
Date: 23 DEC 2019 07:02:06

Middle Channel / 15MHz / 16QAM



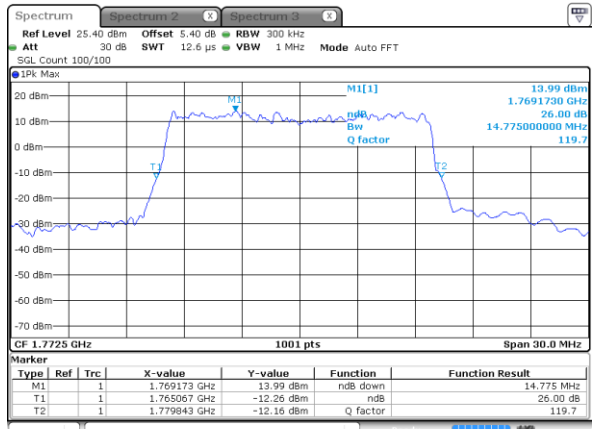
Date: 23 DEC 2019 07:04:56

Highest Channel / 15MHz / QPSK



Date: 23 DEC 2019 06:53:33

Highest Channel / 15MHz / 16QAM

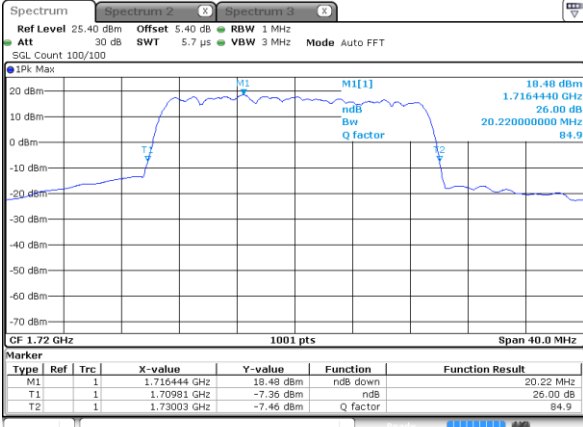


Date: 23 DEC 2019 06:54:01



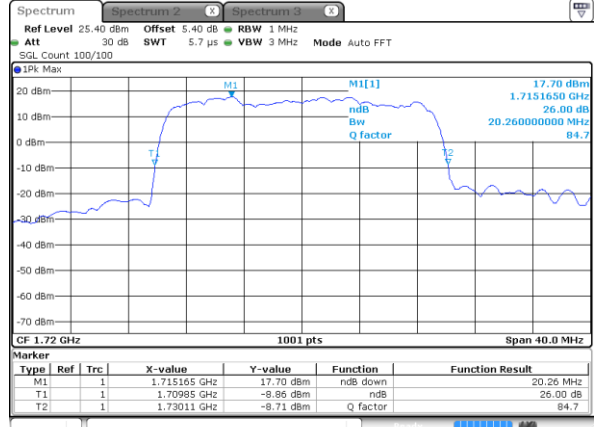
LTE Band 66

Lowest Channel / 20MHz / QPSK



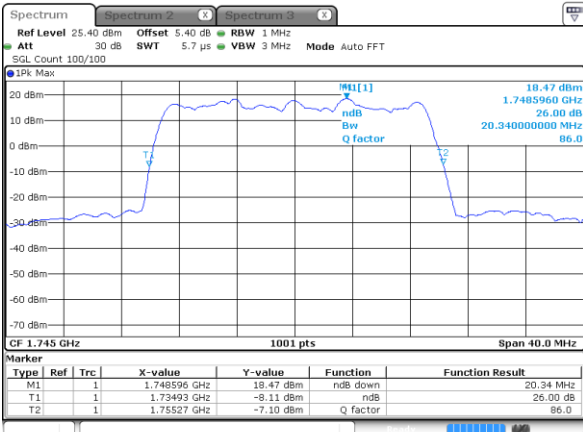
Date: 23 DEC 2019 07:13:13

Lowest Channel / 20MHz / 16QAM



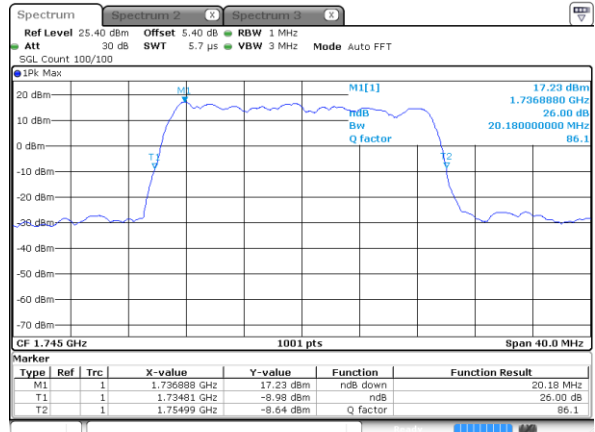
Date: 23 DEC 2019 07:12:25

Middle Channel / 20MHz / QPSK



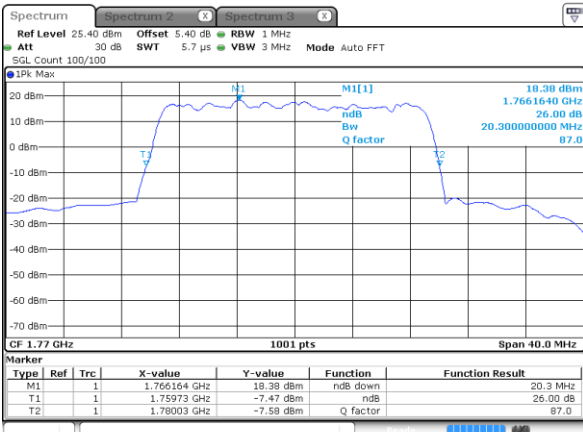
Date: 23 DEC 2019 07:27:05

Middle Channel / 20MHz / 16QAM



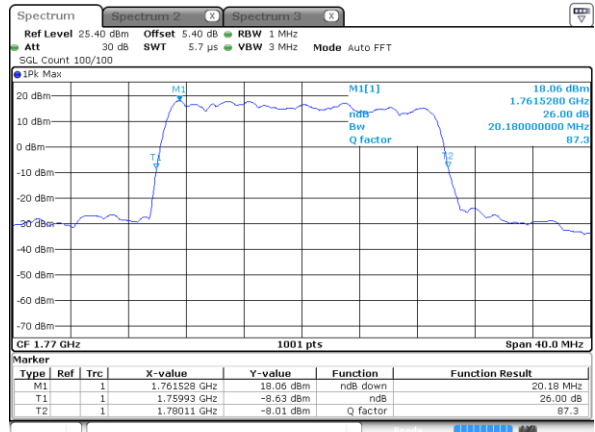
Date: 23 DEC 2019 07:26:35

Highest Channel / 20MHz / QPSK



Date: 23 DEC 2019 07:29:23

Highest Channel / 20MHz / 16QAM

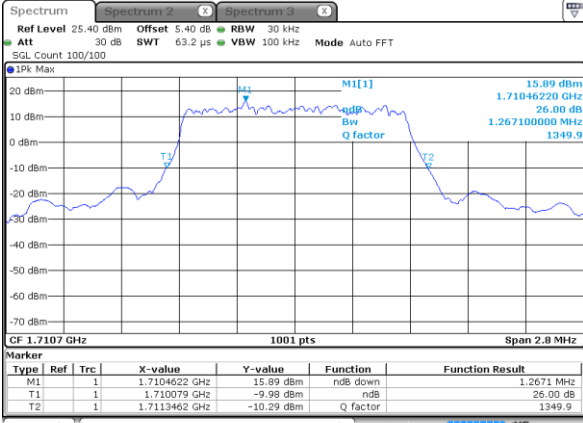


Date: 23 DEC 2019 07:30:17



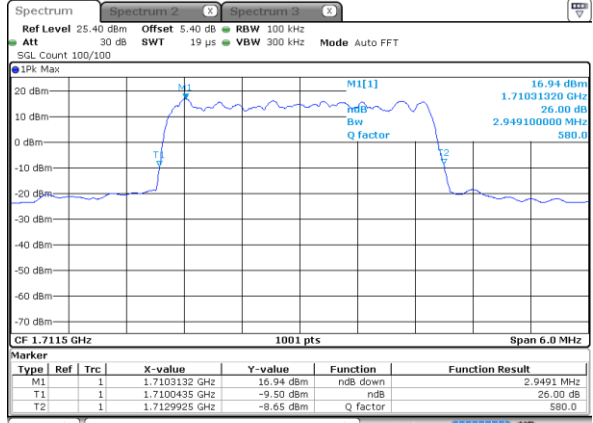
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



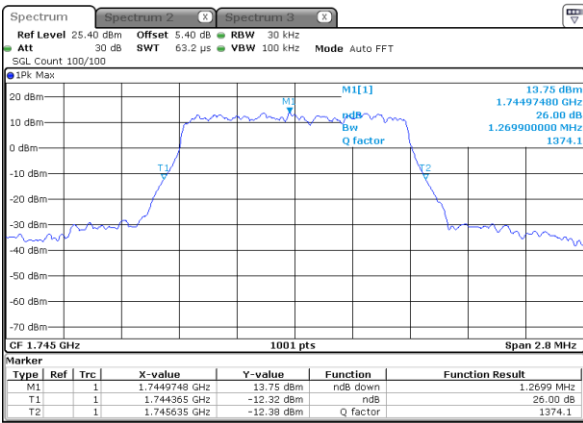
Date: 23 DEC 2019 05:41:05

Lowest Channel / 3MHz / 64QAM



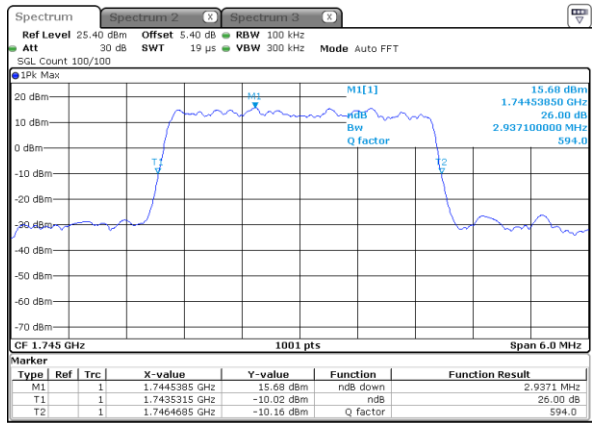
Date: 23 DEC 2019 06:30:00

Middle Channel / 20MHz / 64QAM



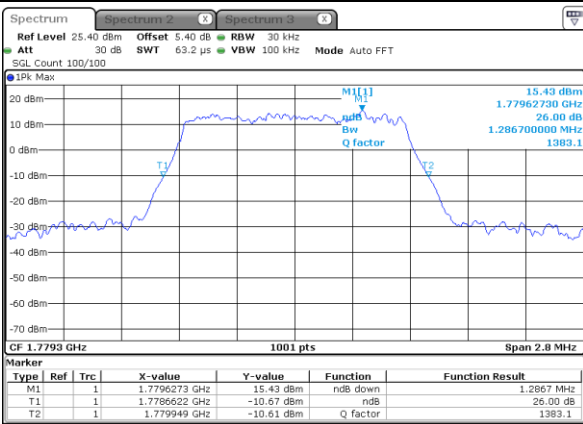
Date: 23 DEC 2019 05:27:02

Middle Channel / 3MHz / 64QAM



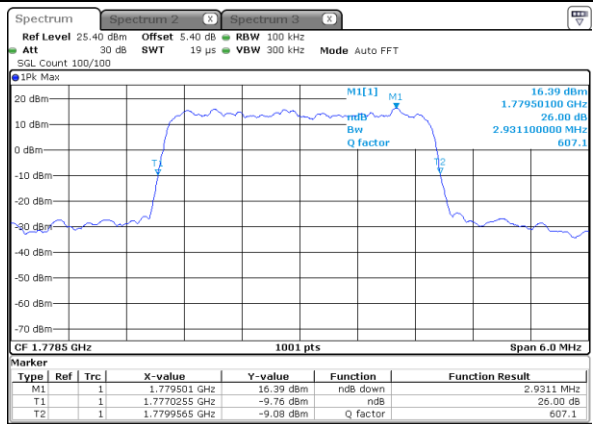
Date: 23 DEC 2019 06:29:26

Highest Channel / 20MHz / 64QAM



Date: 23 DEC 2019 05:43:20

Highest Channel / 3MHz / 64QAM

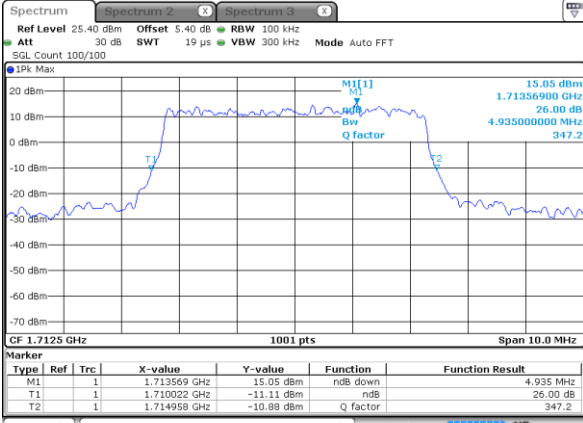


Date: 23 DEC 2019 06:18:25



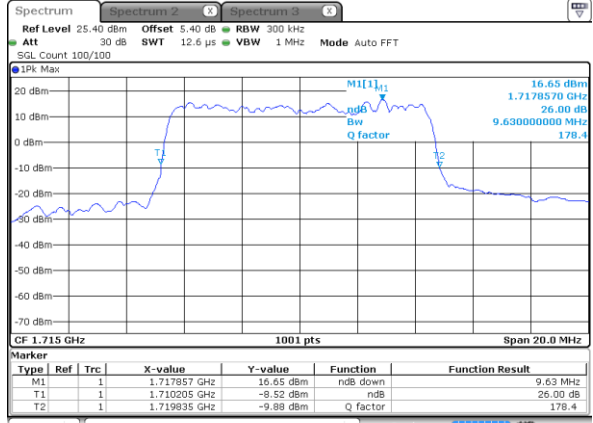
LTE Band 66

Lowest Channel / 5MHz / 64QAM



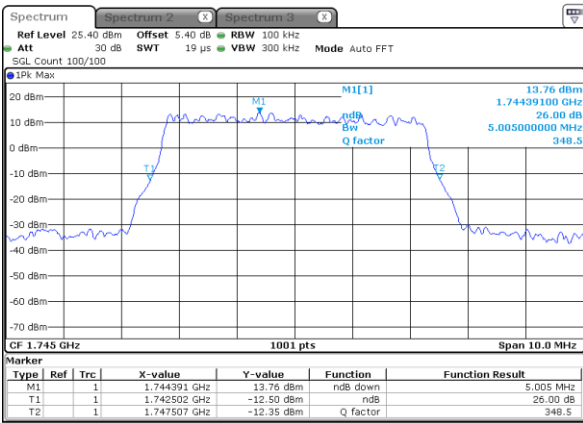
Date: 23 DEC 2019 05:09:42

Lowest Channel / 10MHz / 64QAM



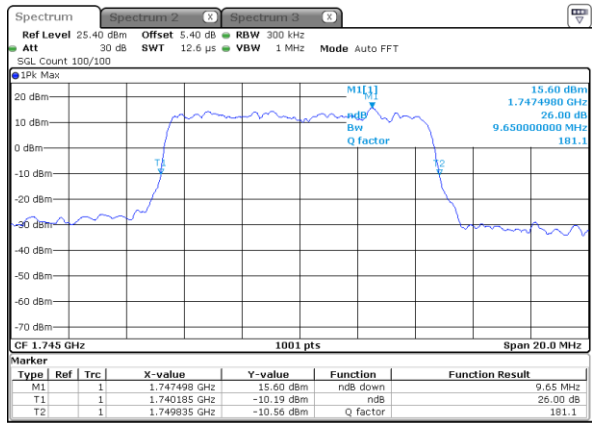
Date: 23 DEC 2019 06:38:50

Middle Channel / 5MHz / 64QAM



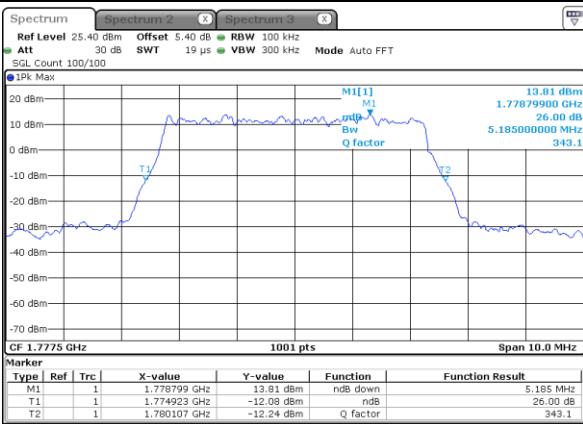
Date: 23 DEC 2019 05:06:33

Middle Channel / 10MHz / 64QAM



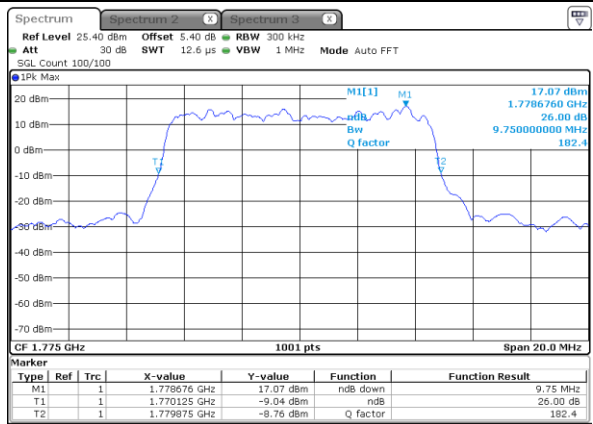
Date: 23 DEC 2019 06:46:16

Highest Channel / 5MHz / 64QAM



Date: 23 DEC 2019 05:16:49

Highest Channel / 10MHz / 64QAM

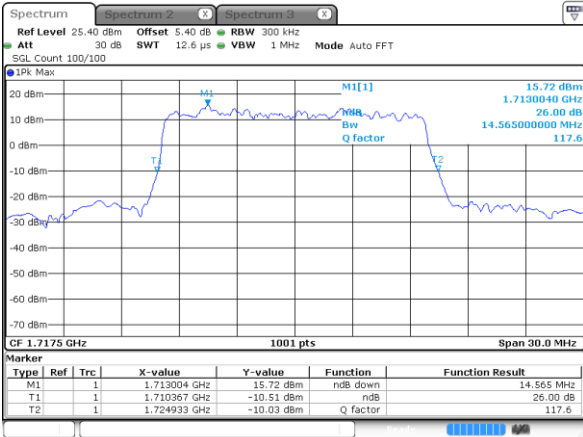


Date: 23 DEC 2019 06:46:54



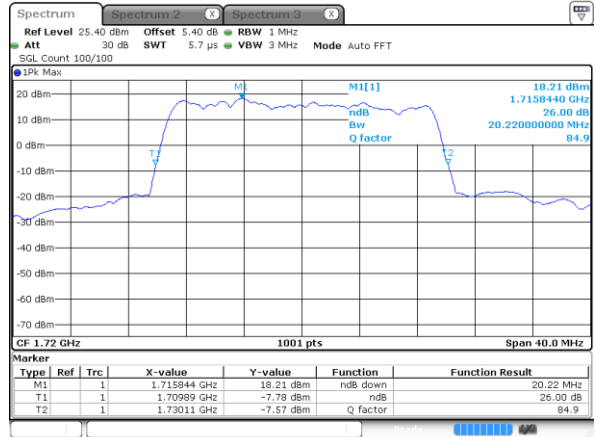
LTE Band 66

Lowest Channel / 15MHz / 64QAM



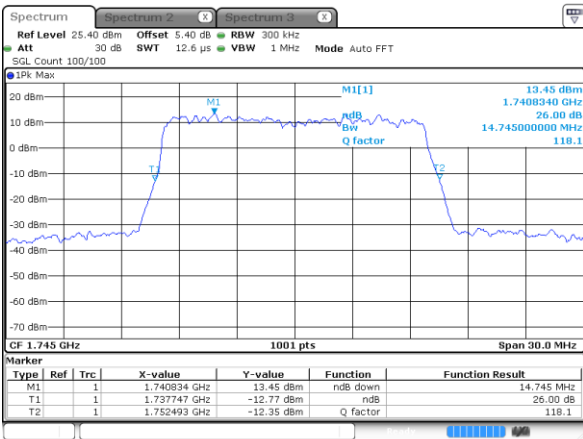
Date: 23 DEC 2019 07:06:13

Lowest Channel / 20MHz / 64QAM



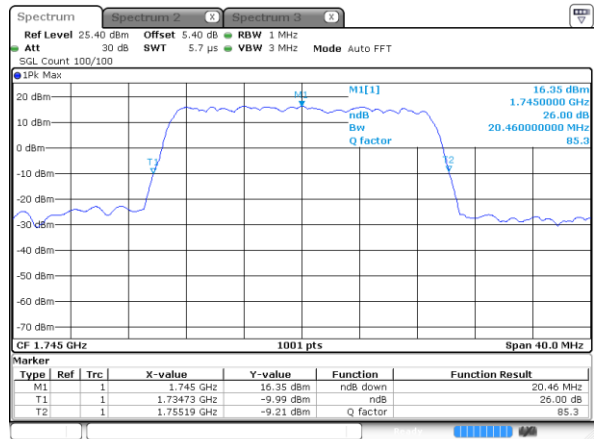
Date: 23 DEC 2019 07:11:46

Middle Channel / 15MHz / 64QAM



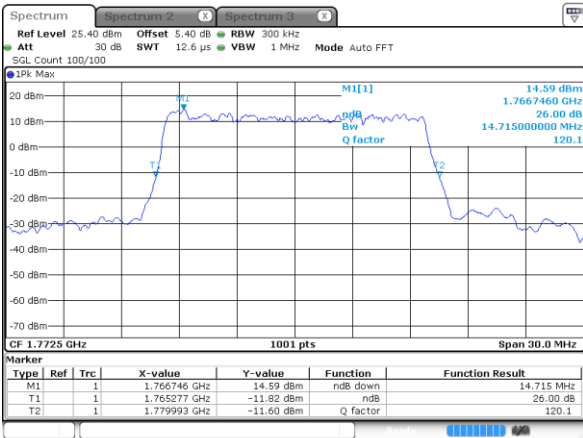
Date: 23 DEC 2019 07:05:18

Middle Channel / 20MHz / 64QAM



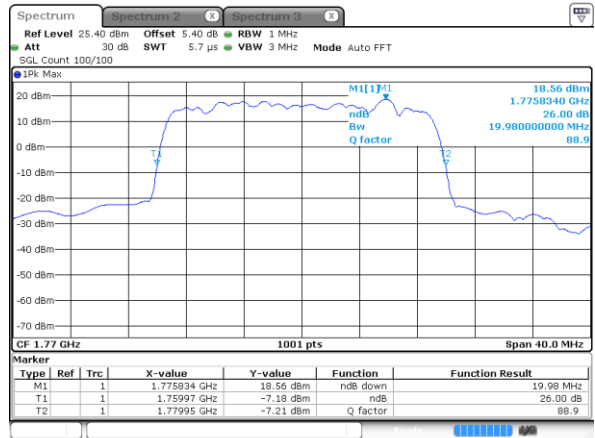
Date: 23 DEC 2019 07:25:59

Highest Channel / 15MHz / 64QAM



Date: 23 DEC 2019 08:54:39

Highest Channel / 20MHz / 64QAM



Date: 23 DEC 2019 07:31:05



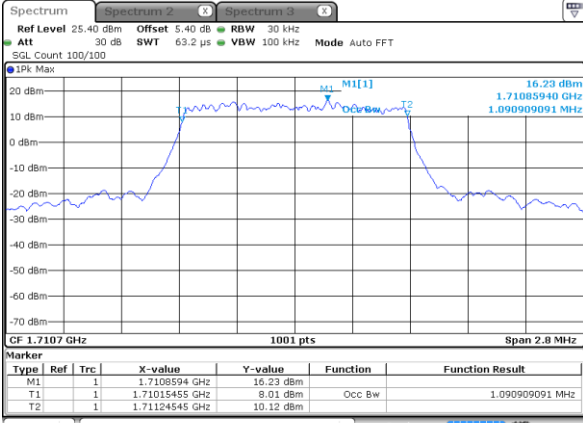
Occupied Bandwidth

Mode		LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	1.09	1.09	2.71	2.71	4.49	4.50	9.01	9.05	13.43	13.40	18.38	18.46	
Middle CH	1.09	1.08	2.72	2.72	4.49	4.50	9.01	9.03	13.46	13.46	18.26	18.30	
Highest CH	1.09	1.09	2.72	2.72	4.47	4.49	9.05	9.05	13.43	13.49	18.30	18.42	
Mode		LTE Band 66: 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	
Lowest CH	1.09	-	2.72	-	4.49	-	9.03	-	13.46	-	18.50	-	
Middle CH	1.09	-	2.71	-	4.49	-	8.99	-	13.49	-	18.34	-	
Highest CH	1.09	-	2.70	-	4.48	-	9.03	-	13.55	-	18.42	-	



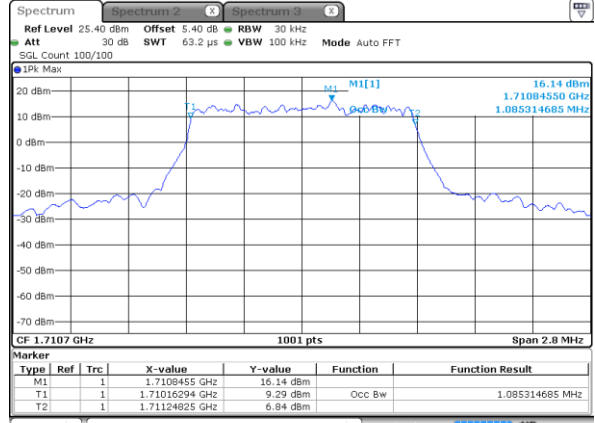
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



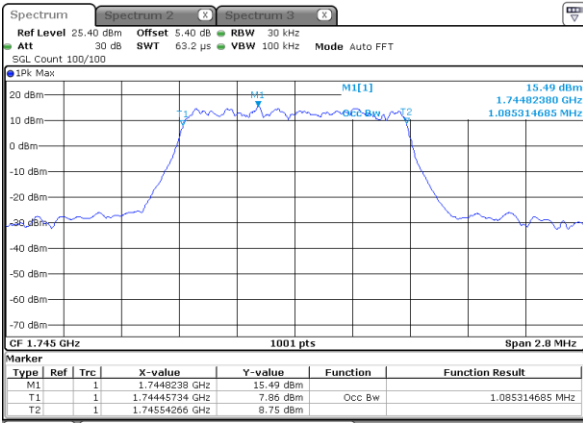
Date: 23 DEC 2019 05:40:44

Lowest Channel / 1.4MHz / 16QAM



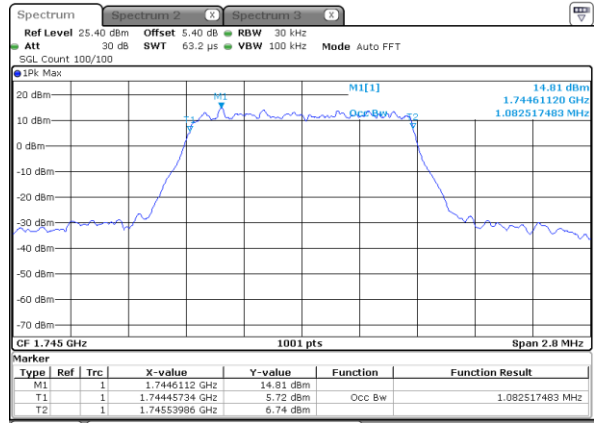
Date: 23 DEC 2019 05:40:28

Middle Channel / 1.4MHz / QPSK



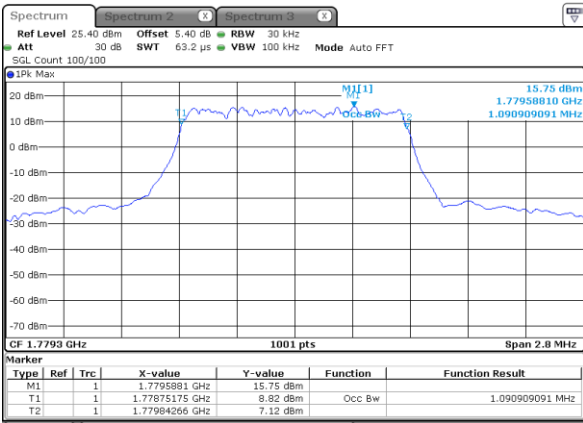
Date: 23 DEC 2019 05:27:17

Middle Channel / 1.4MHz / 16QAM



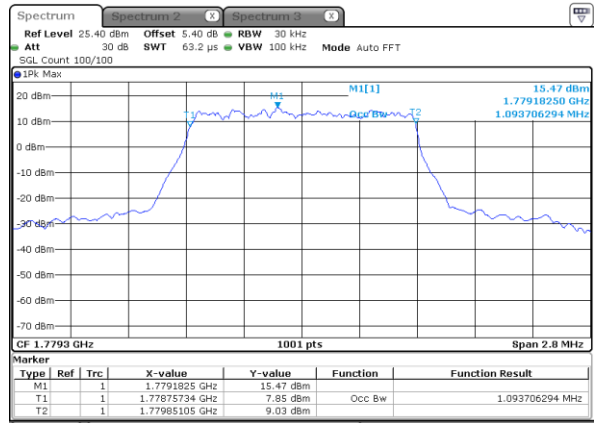
Date: 23 DEC 2019 05:26:52

Highest Channel / 1.4MHz / QPSK



Date: 23 DEC 2019 05:46:56

Highest Channel / 1.4MHz / 16QAM



Date: 23 DEC 2019 05:46:44