



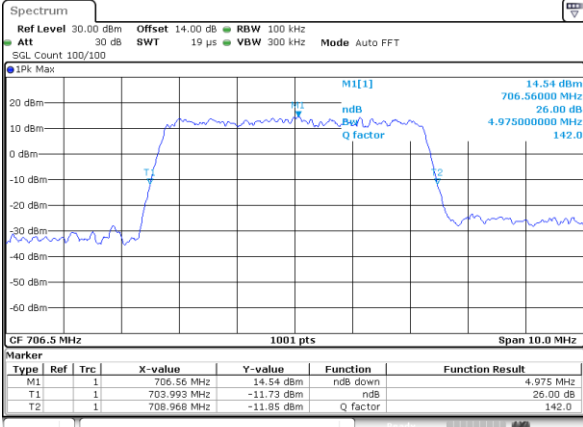
26dB Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.98	4.90	9.77	9.71	-	-	-	-
Middle CH	-	-	-	-	4.97	4.91	9.79	9.79	-	-	-	-
Highest CH	-	-	-	-	5.00	4.76	9.83	9.69	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.92	-	9.87	-	-	-	-	-
Middle CH	-	-	-	-	4.94	-	9.77	-	-	-	-	-
Highest CH	-	-	-	-	4.94	-	9.61	-	-	-	-	-



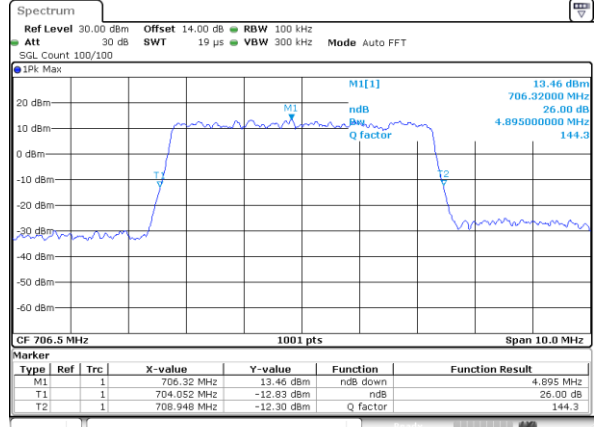
LTE Band 17

Lowest Channel / 5MHz / QPSK



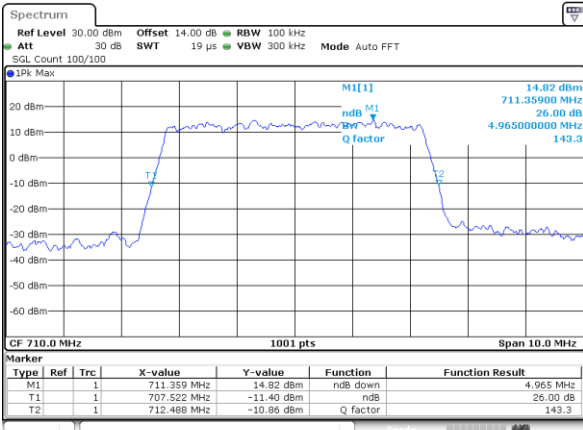
Date: 17_AUG.2020 14:08:14

Lowest Channel / 5MHz / 16QAM



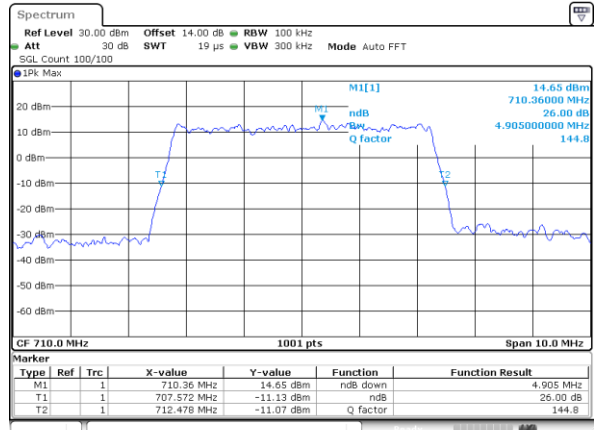
Date: 17_AUG.2020 14:08:25

Middle Channel / 5MHz / QPSK



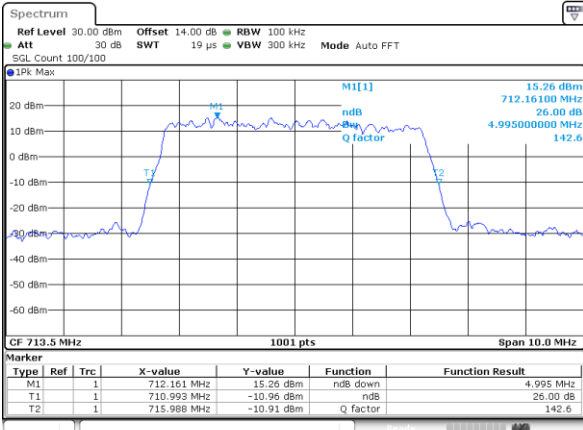
Date: 17_AUG.2020 14:13:25

Middle Channel / 5MHz / 16QAM



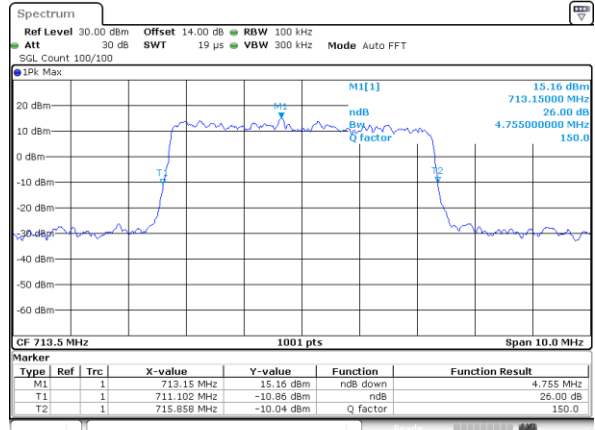
Date: 17_AUG.2020 14:13:36

Highest Channel / 5MHz / QPSK



Date: 17_AUG.2020 14:15:34

Highest Channel / 5MHz / 16QAM

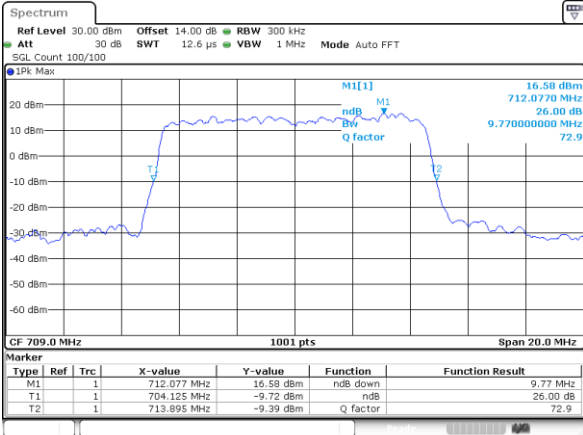


Date: 17_AUG.2020 14:15:45



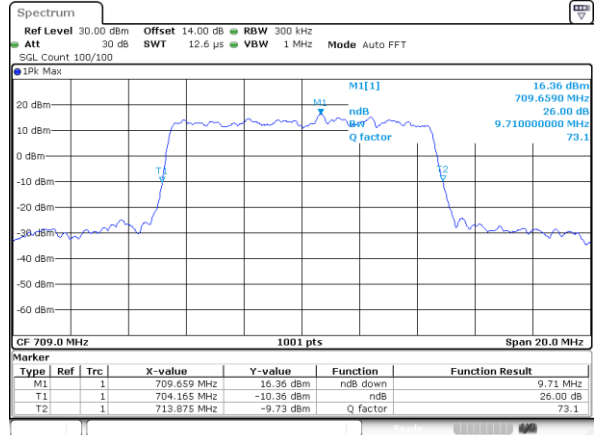
LTE Band 17

Lowest Channel / 10MHz / QPSK



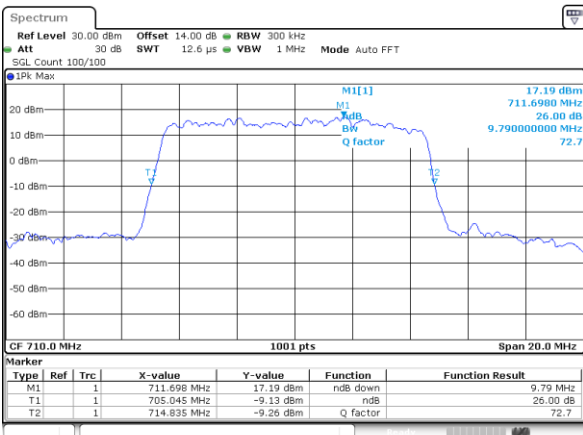
Date: 17_AUG.2020 14:20:45

Lowest Channel / 10MHz / 16QAM



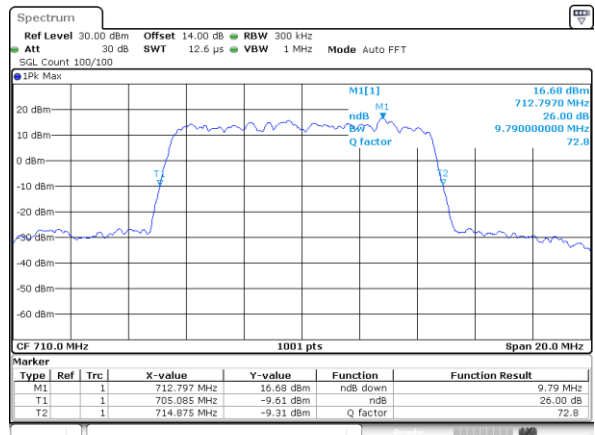
Date: 17_AUG.2020 14:20:56

Middle Channel / 10MHz / QPSK



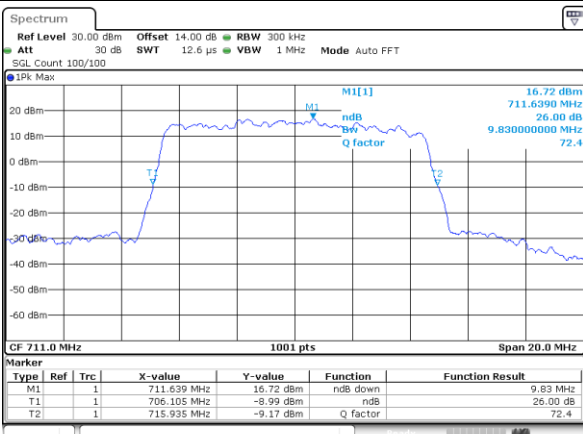
Date: 17_AUG.2020 14:25:55

Middle Channel / 10MHz / 16QAM



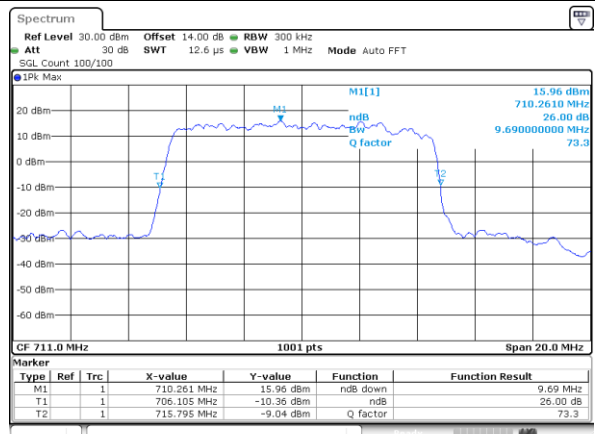
Date: 17_AUG.2020 14:26:06

Highest Channel / 10MHz / QPSK



Date: 17_AUG.2020 14:28:04

Highest Channel / 10MHz / 16QAM

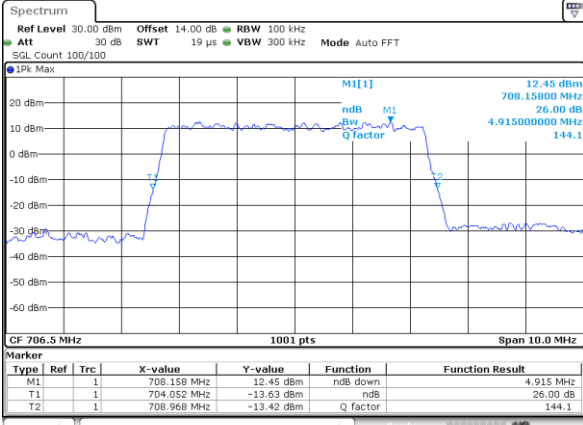


Date: 17_AUG.2020 14:28:16



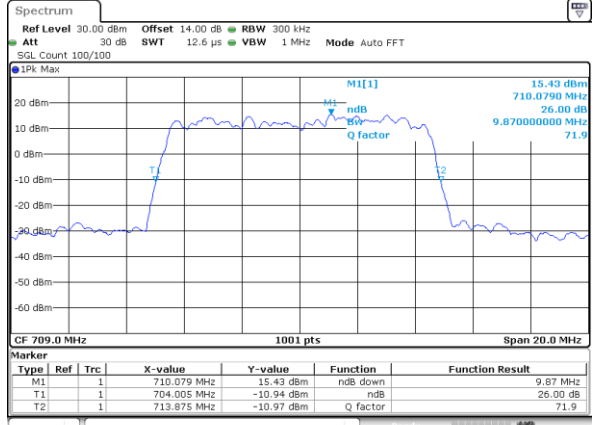
LTE Band 17

Lowest Channel / 5MHz / 64QAM



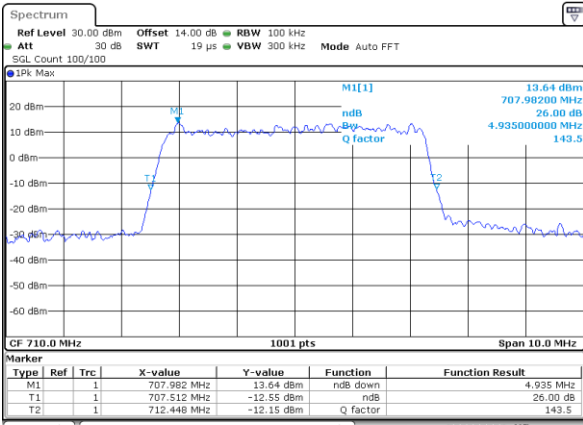
Date: 17_AUG.2020 15:26:54

Lowest Channel / 10MHz / 64QAM



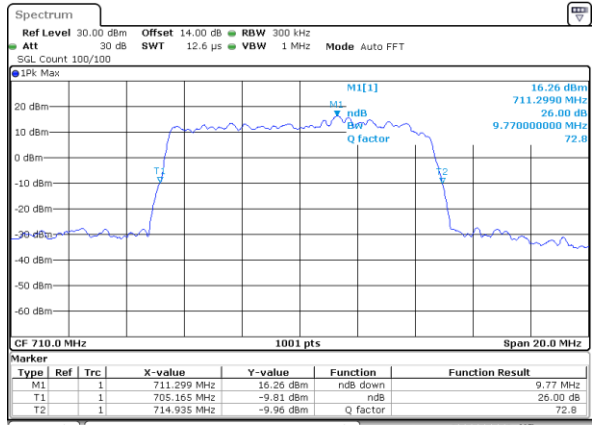
Date: 17_AUG.2020 15:17:54

Middle Channel / 5MHz / 64QAM



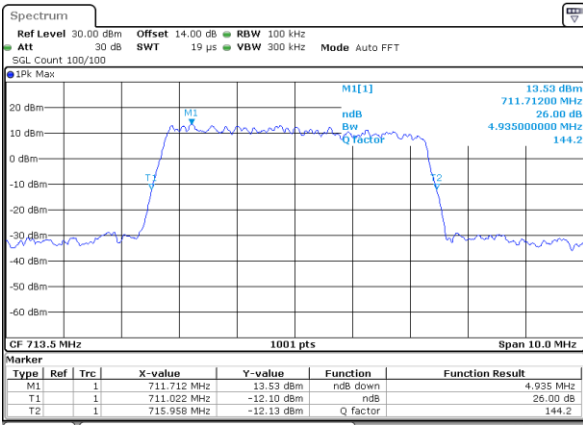
Date: 17_AUG.2020 15:14:16

Middle Channel / 10MHz / 64QAM



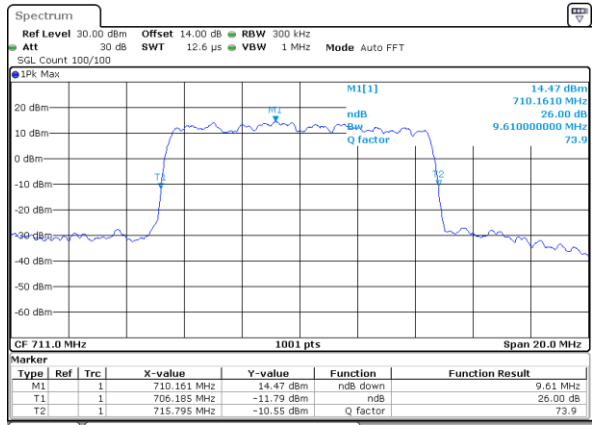
Date: 17_AUG.2020 15:20:30

Highest Channel / 5MHz / 64QAM



Date: 17_AUG.2020 15:15:20

Highest Channel / 10MHz / 64QAM



Date: 17_AUG.2020 15:21:34



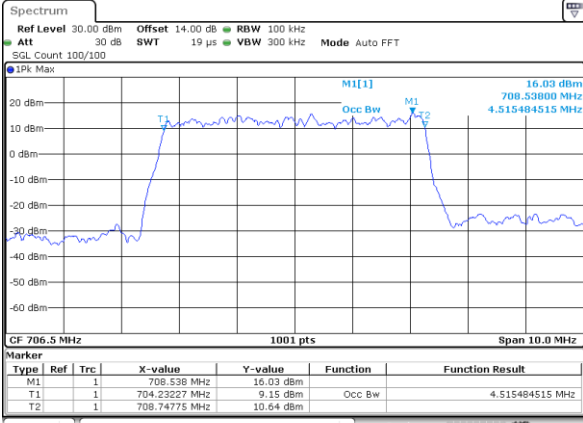
Occupied Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.52	4.51	8.99	9.03	-	-	-	-
Middle CH	-	-	-	-	4.48	4.50	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.47	8.97	9.01	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	9.07	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	8.95	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	8.97	-	-	-	-	-



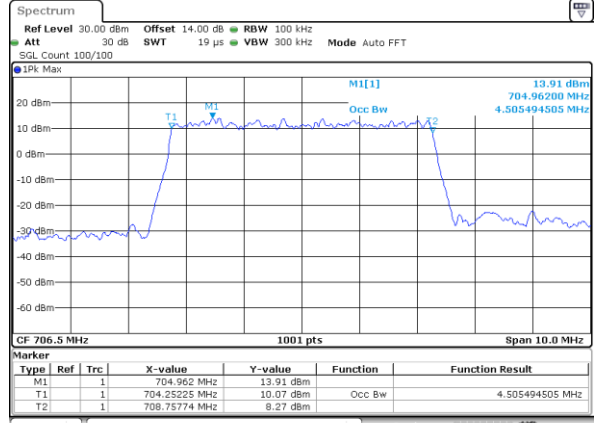
LTE Band 17

Lowest Channel / 5MHz / QPSK



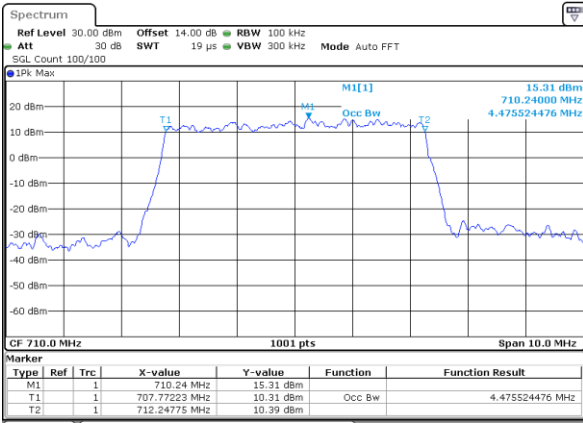
Date: 17_AUG.2020 14:07:51

Lowest Channel / 5MHz / 16QAM



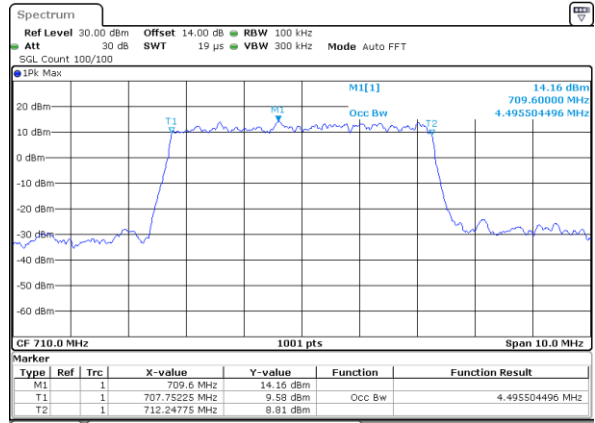
Date: 17_AUG.2020 14:10:03

Middle Channel / 5MHz / QPSK



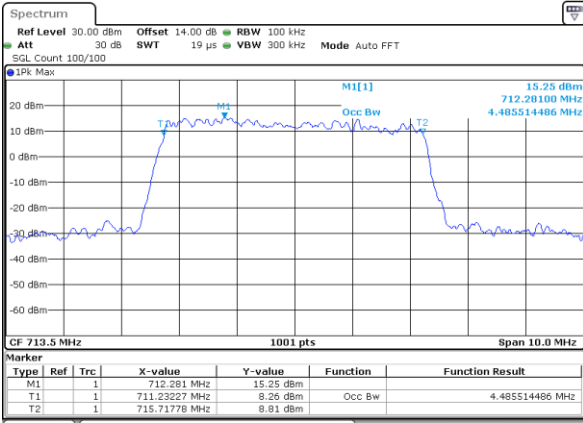
Date: 17_AUG.2020 14:13:02

Middle Channel / 5MHz / 16QAM



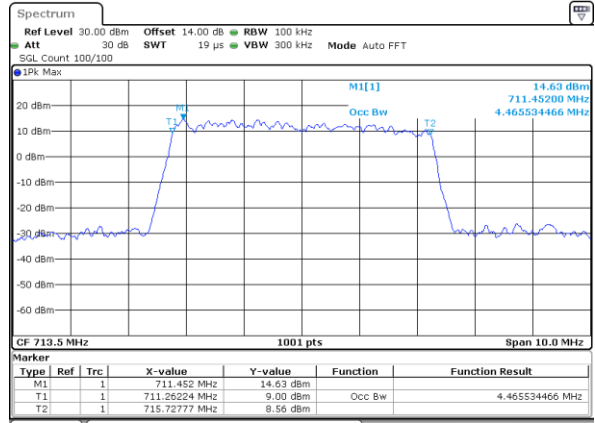
Date: 17_AUG.2020 14:13:13

Highest Channel / 5MHz / QPSK



Date: 17_AUG.2020 14:15:11

Highest Channel / 5MHz / 16QAM

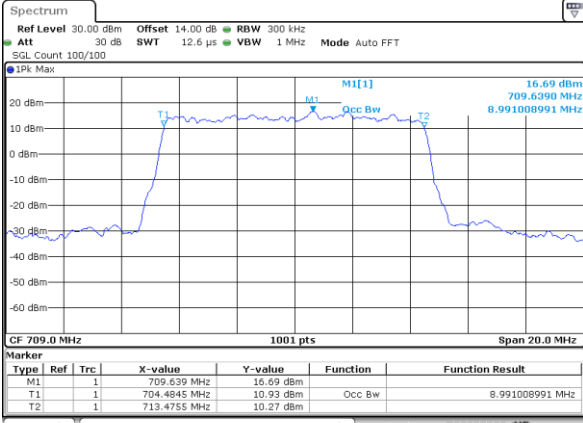


Date: 17_AUG.2020 14:15:23



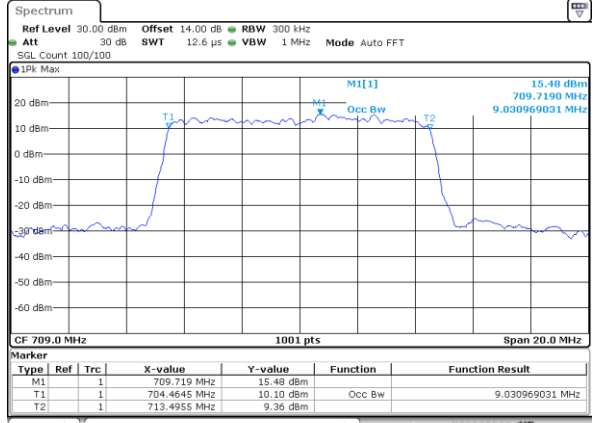
LTE Band 17

Lowest Channel / 10MHz / QPSK



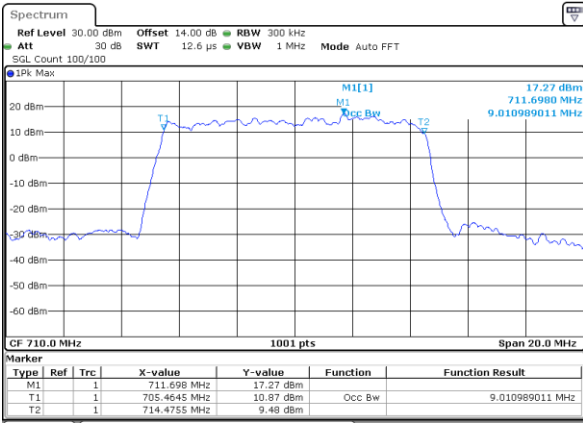
Date: 17_AUG.2020 14:20:22

Lowest Channel / 10MHz / 16QAM



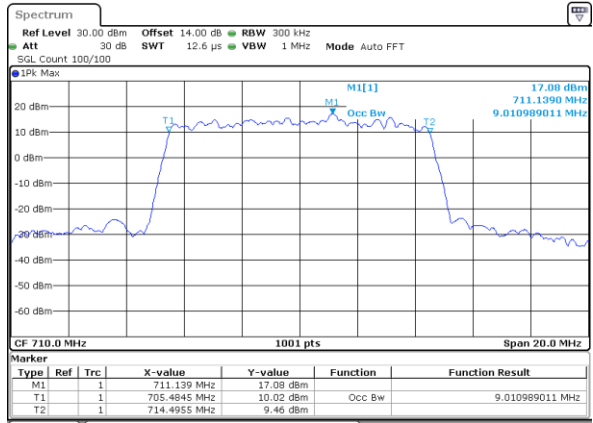
Date: 17_AUG.2020 14:20:33

Middle Channel / 10MHz / QPSK



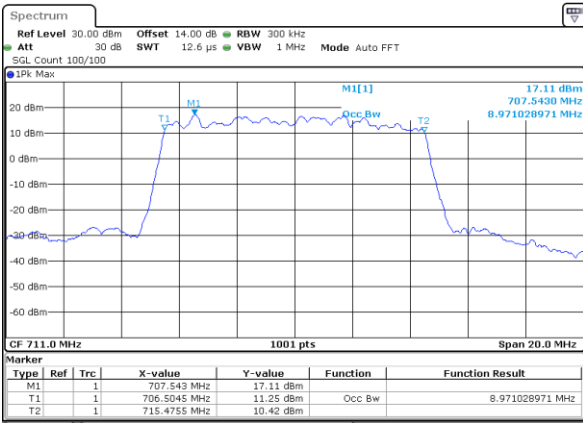
Date: 17_AUG.2020 14:25:03

Middle Channel / 10MHz / 16QAM



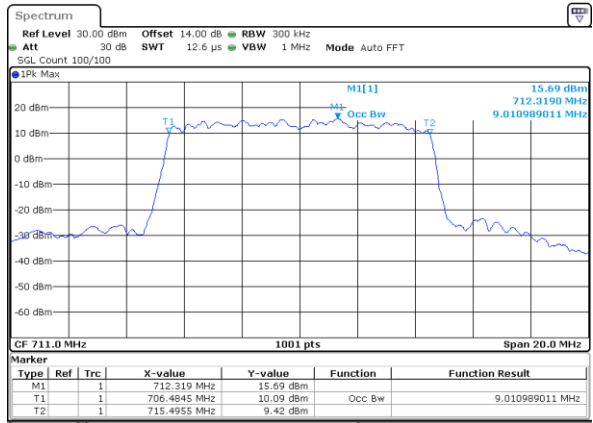
Date: 17_AUG.2020 14:25:44

Highest Channel / 10MHz / QPSK



Date: 17_AUG.2020 14:27:42

Highest Channel / 10MHz / 16QAM

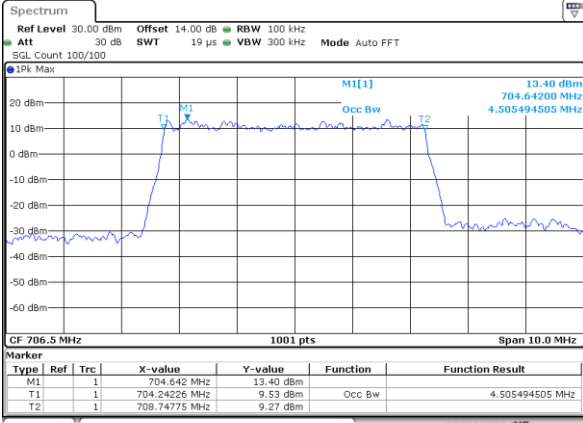


Date: 17_AUG.2020 14:27:53



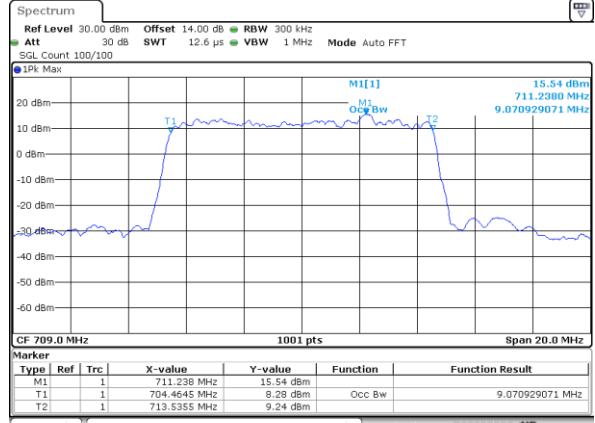
LTE Band 17

Lowest Channel / 5MHz / 64QAM



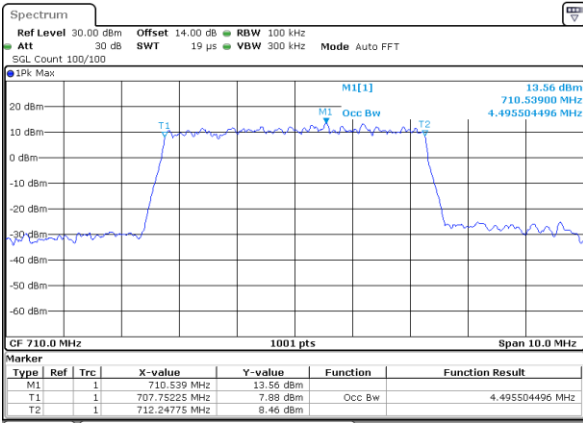
Date: 17_AUG.2020 15:09:14

Lowest Channel / 10MHz / 64QAM



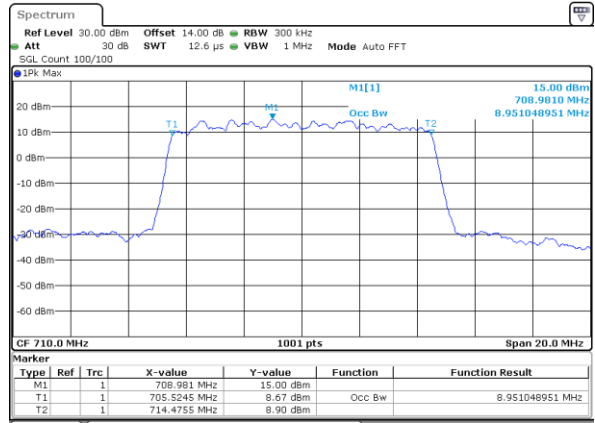
Date: 17_AUG.2020 15:17:43

Middle Channel / 5MHz / 64QAM



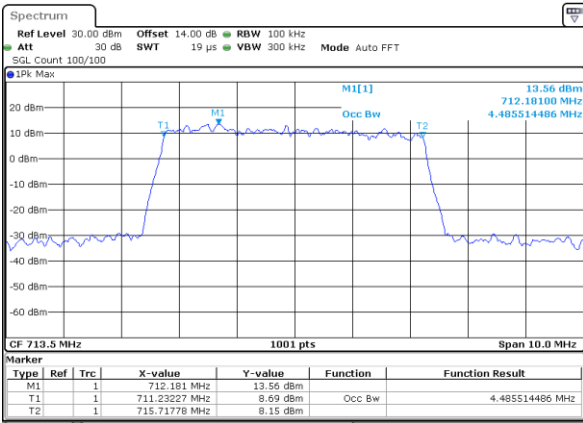
Date: 17_AUG.2020 15:14:05

Middle Channel / 10MHz / 64QAM



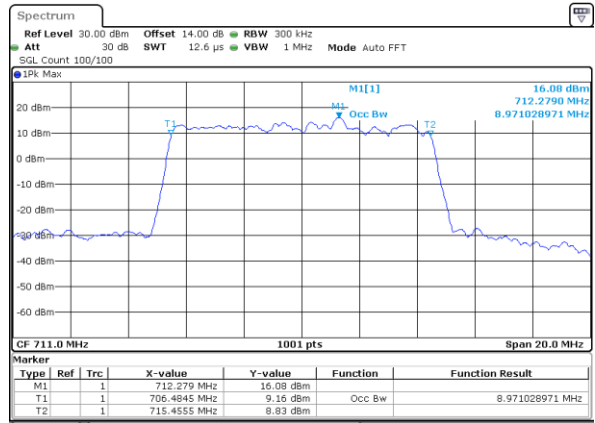
Date: 17_AUG.2020 15:20:18

Highest Channel / 5MHz / 64QAM



Date: 17_AUG.2020 15:15:09

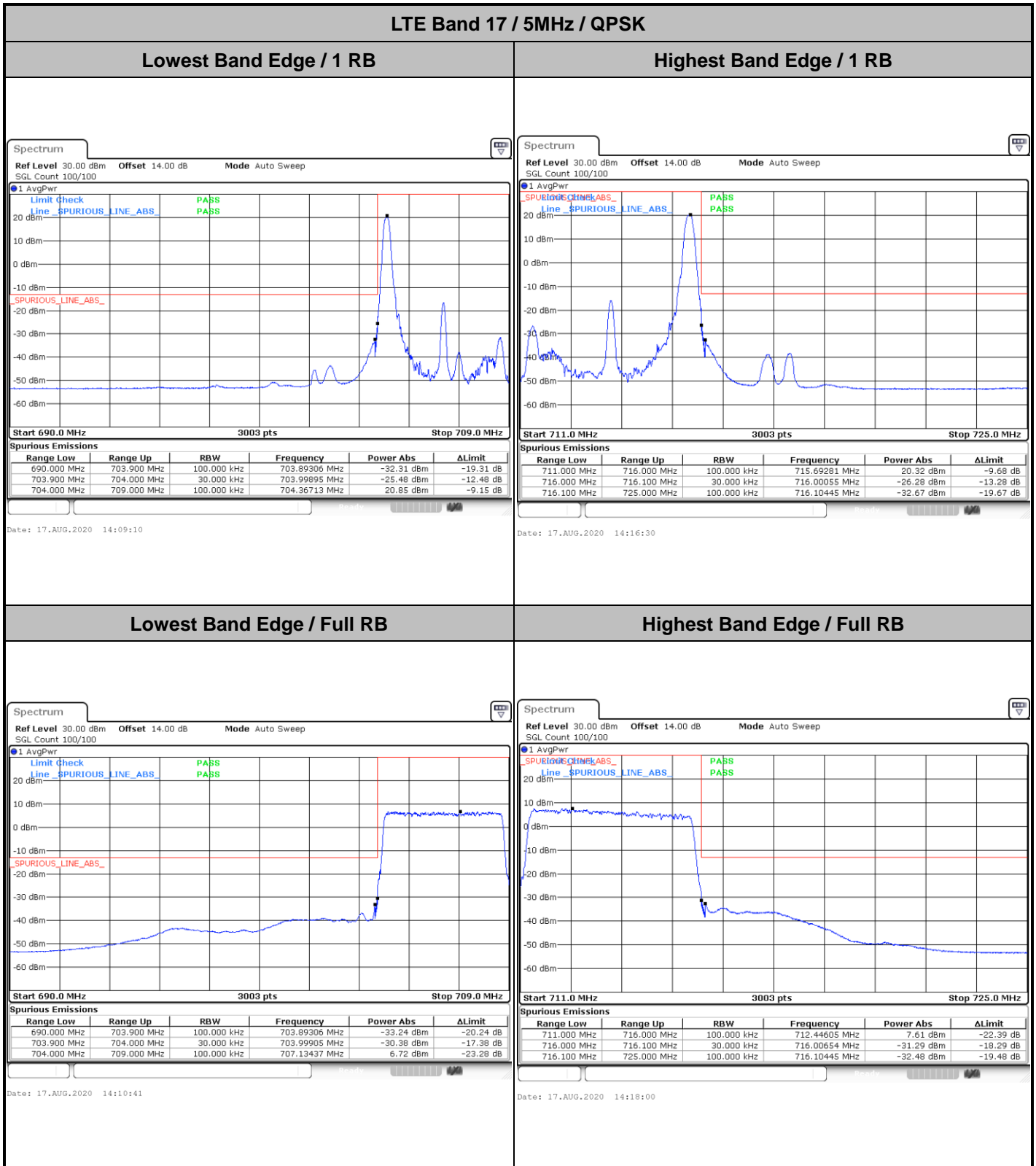
Highest Channel / 10MHz / 64QAM



Date: 17_AUG.2020 15:21:23



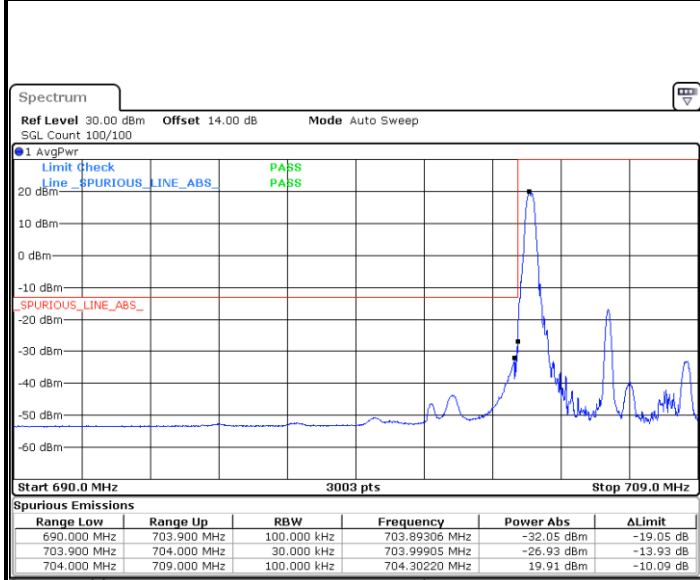
Conducted Band Edge





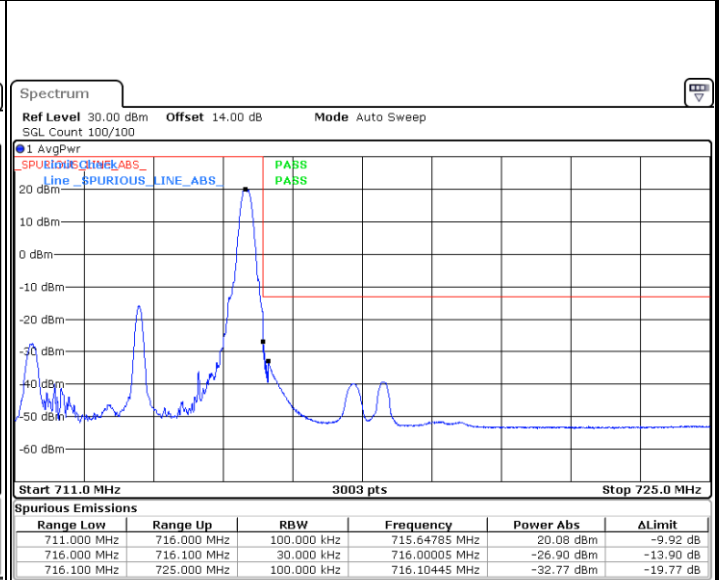
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



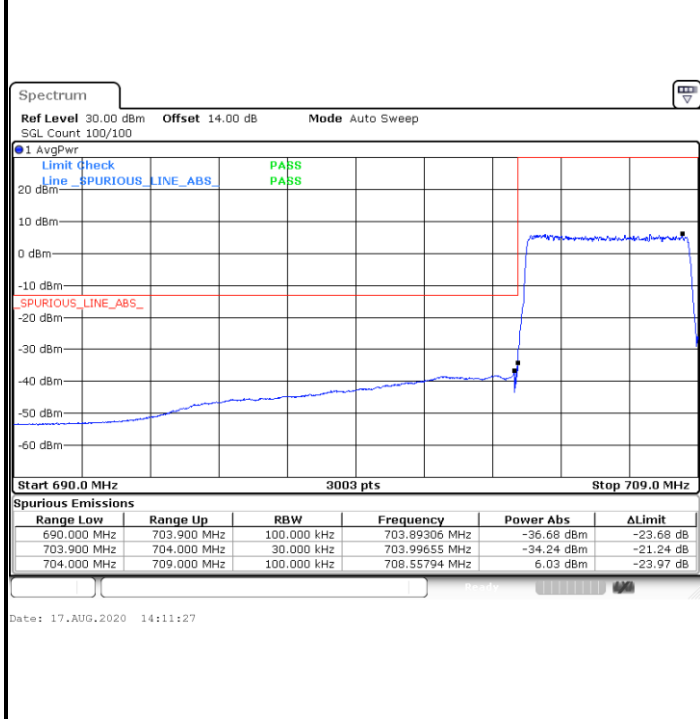
Date: 17.AUG.2020 14:09:56

Highest Band Edge / 1 RB



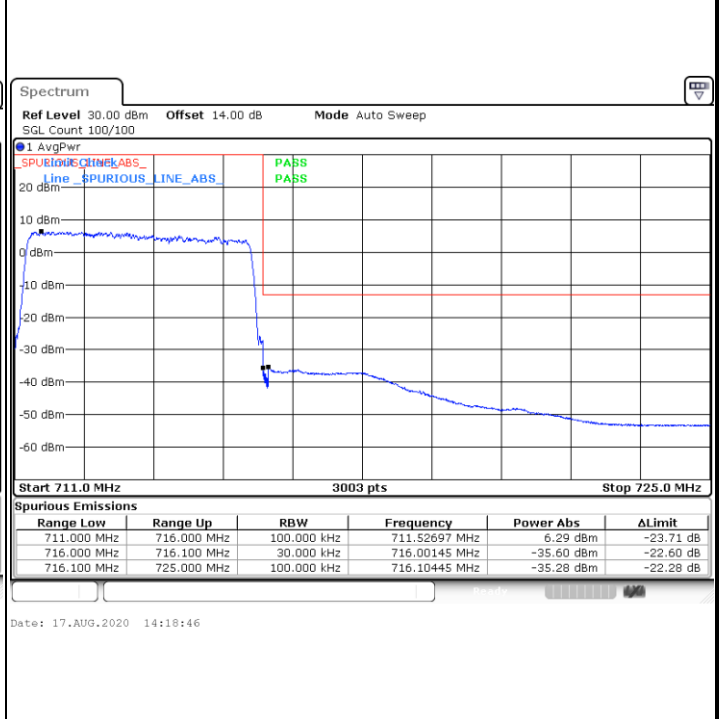
Date: 17.AUG.2020 14:17:15

Lowest Band Edge / Full RB



Date: 17.AUG.2020 14:11:27

Highest Band Edge / Full RB

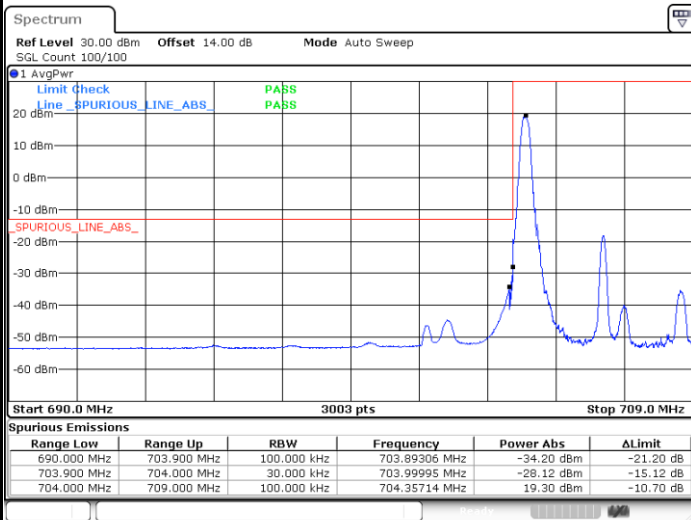


Date: 17.AUG.2020 14:18:46



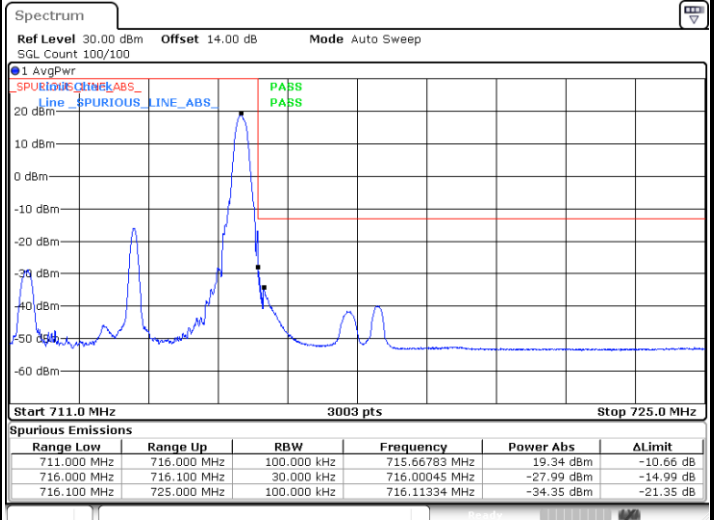
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



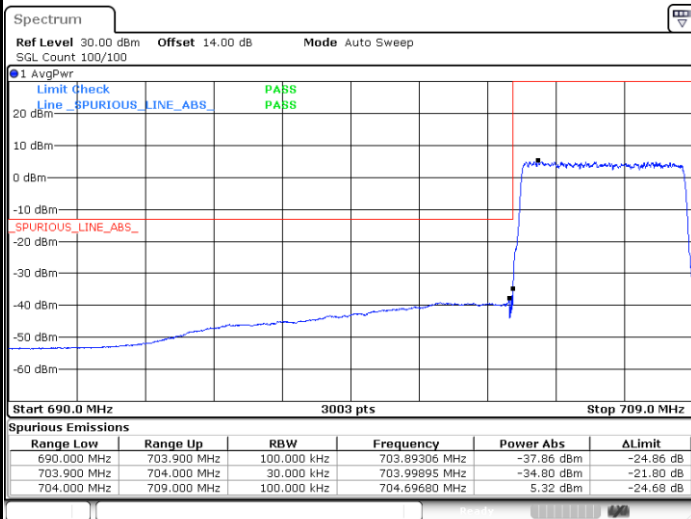
Date: 17.AUG.2020 15:12:26

Highest Band Edge / 1 RB



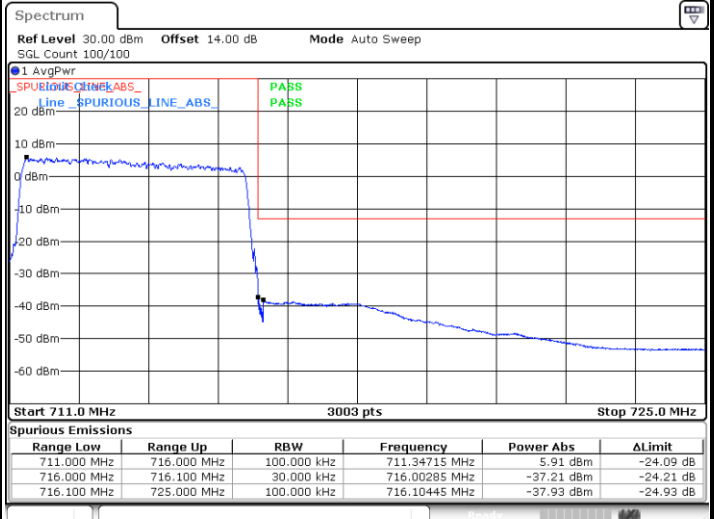
Date: 17.AUG.2020 15:16:05

Lowest Band Edge / Full RB



Date: 17.AUG.2020 15:13:11

Highest Band Edge / Full RB

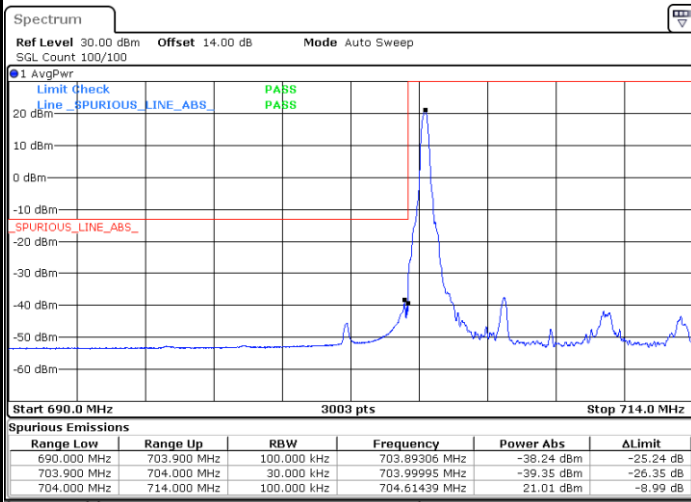


Date: 17.AUG.2020 15:16:50



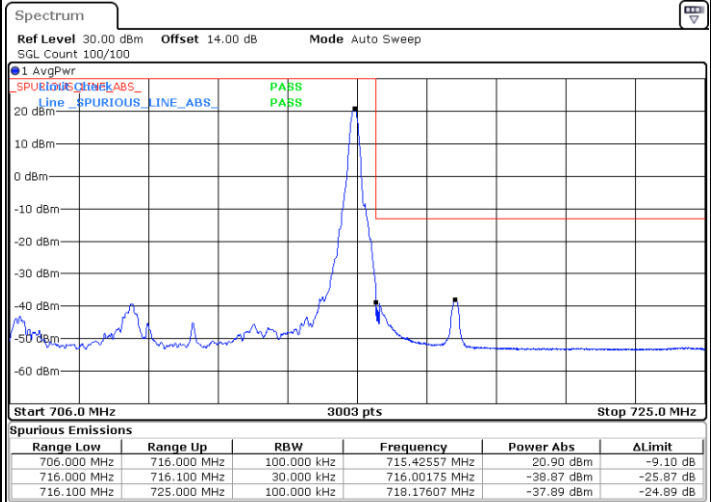
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



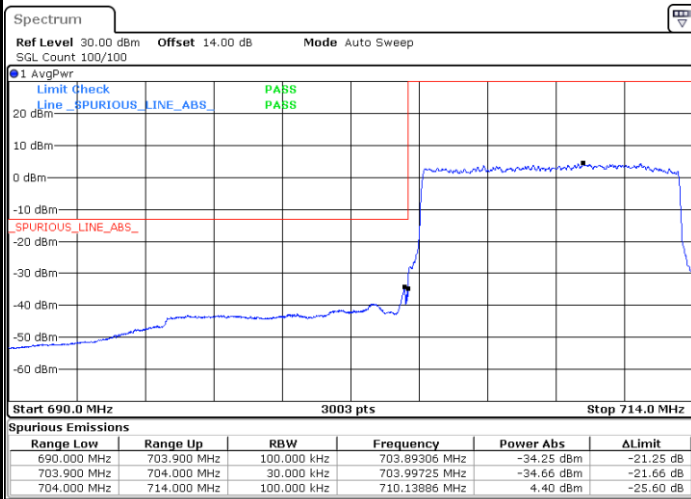
Date: 17.AUG.2020 14:21:40

Highest Band Edge / 1 RB



Date: 17.AUG.2020 14:29:00

Lowest Band Edge / Full RB



Date: 17.AUG.2020 14:23:11

Highest Band Edge / Full RB

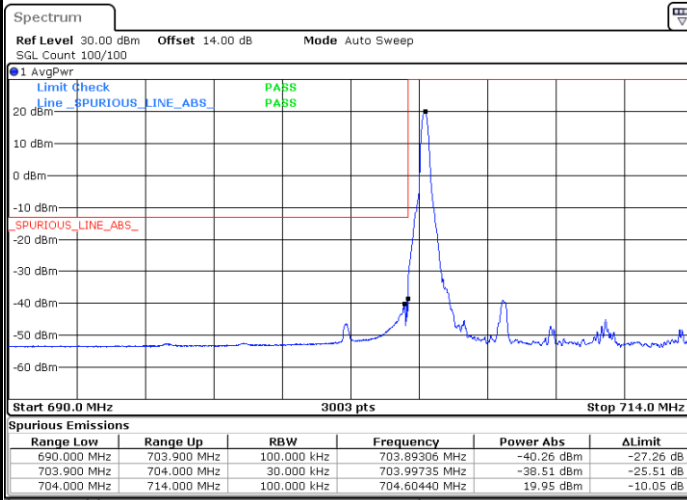


Date: 17.AUG.2020 14:30:30



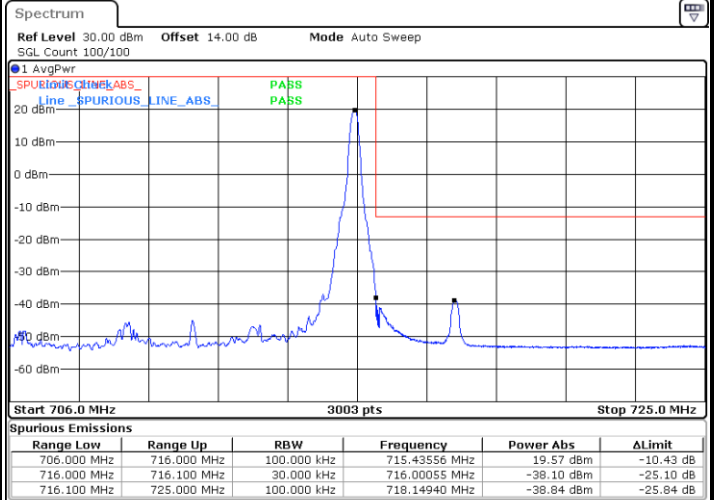
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



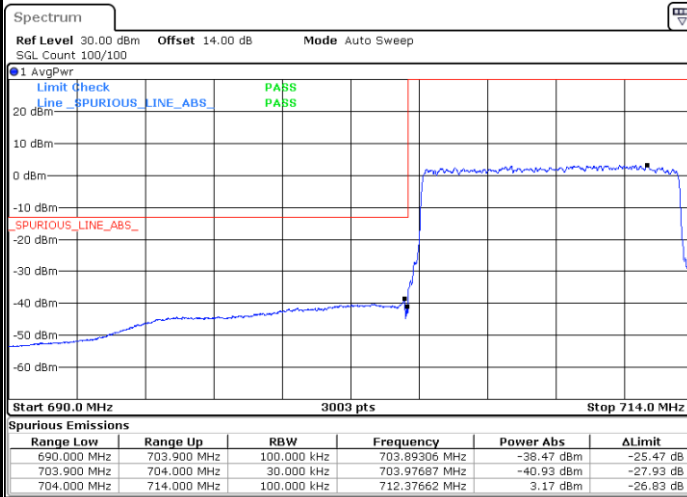
Date: 17.AUG.2020 14:22:26

Highest Band Edge / 1 RB



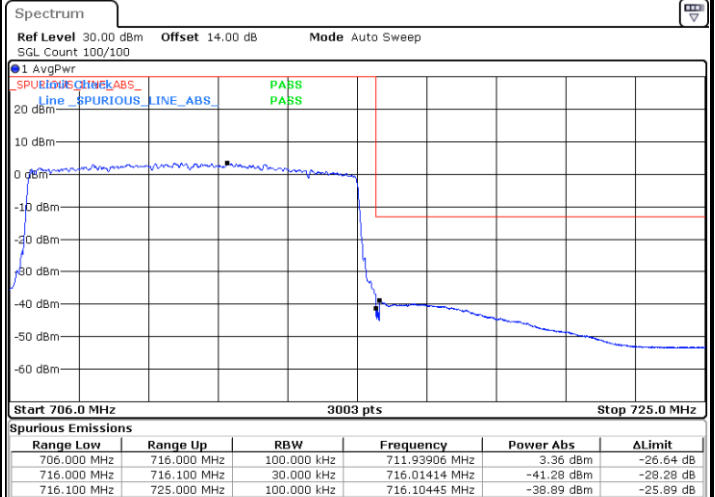
Date: 17.AUG.2020 14:29:45

Lowest Band Edge / Full RB



Date: 17.AUG.2020 14:23:56

Highest Band Edge / Full RB

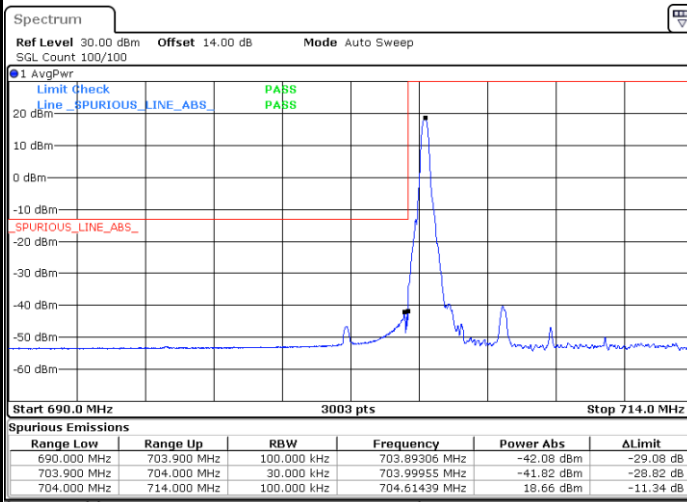


Date: 17.AUG.2020 14:31:16



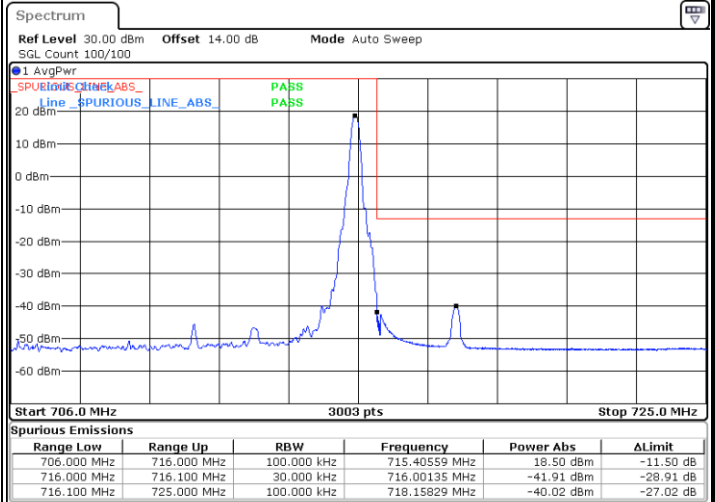
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



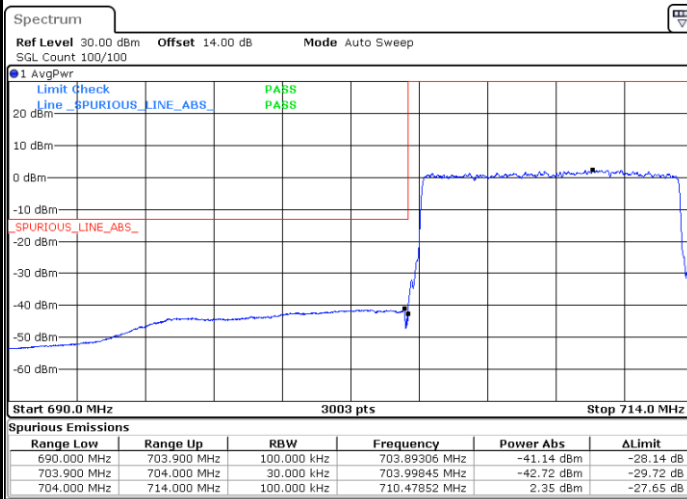
Date: 17.AUG.2020 15:18:39

Highest Band Edge / 1 RB



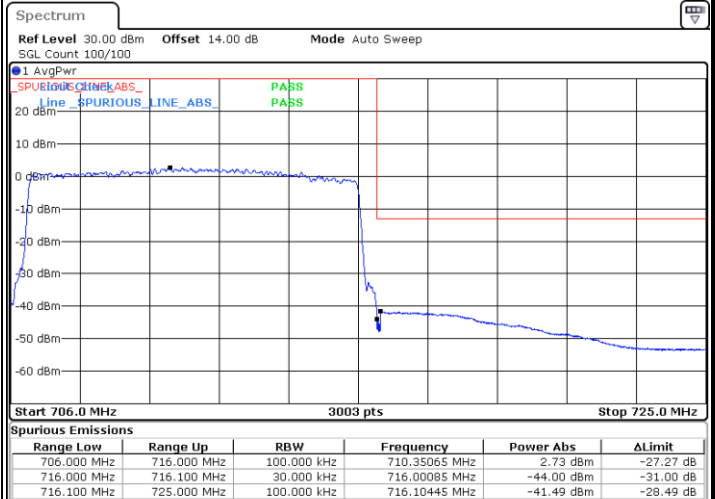
Date: 17.AUG.2020 15:22:19

Lowest Band Edge / Full RB



Date: 17.AUG.2020 15:19:24

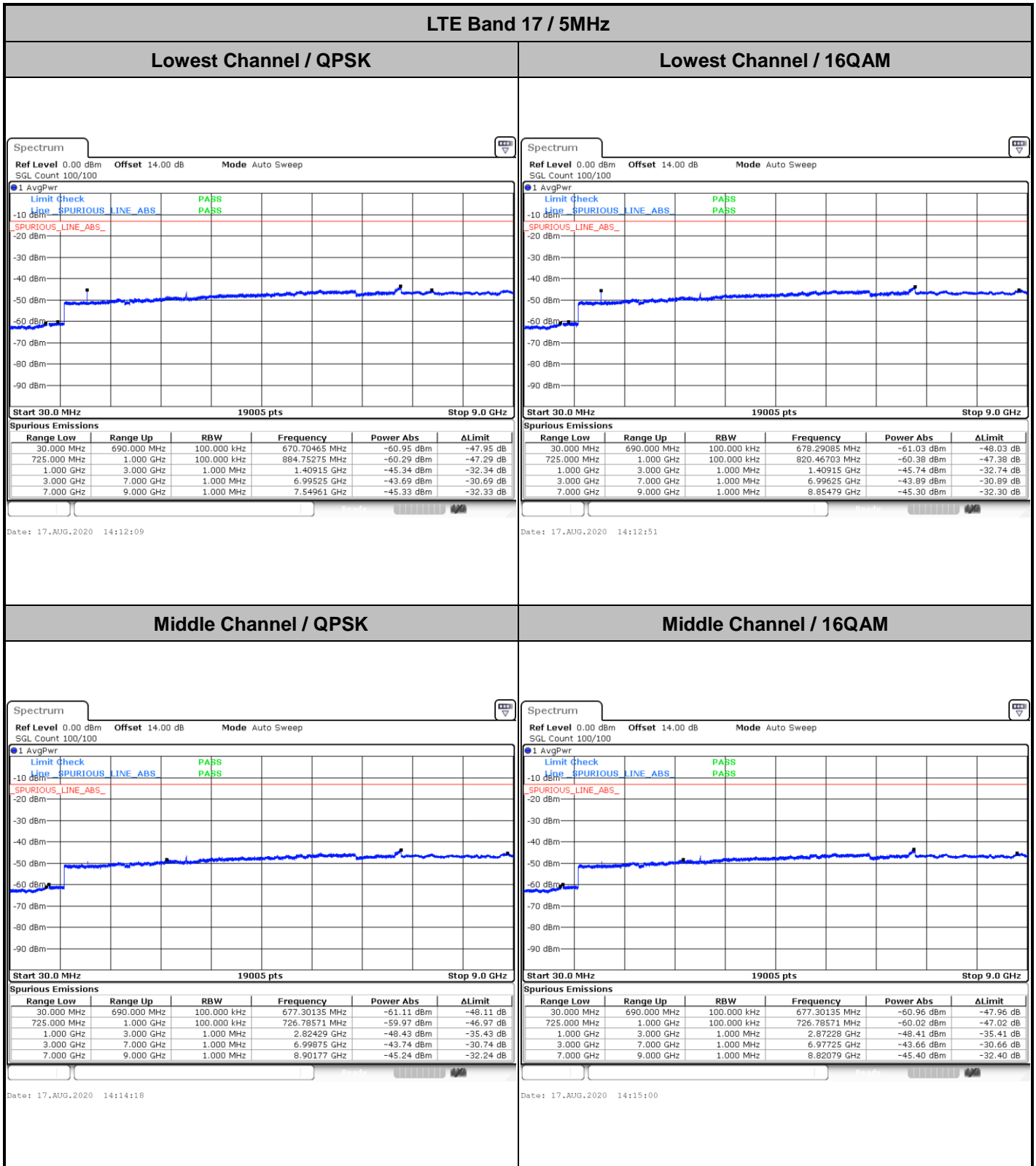
Highest Band Edge / Full RB



Date: 17.AUG.2020 15:23:04



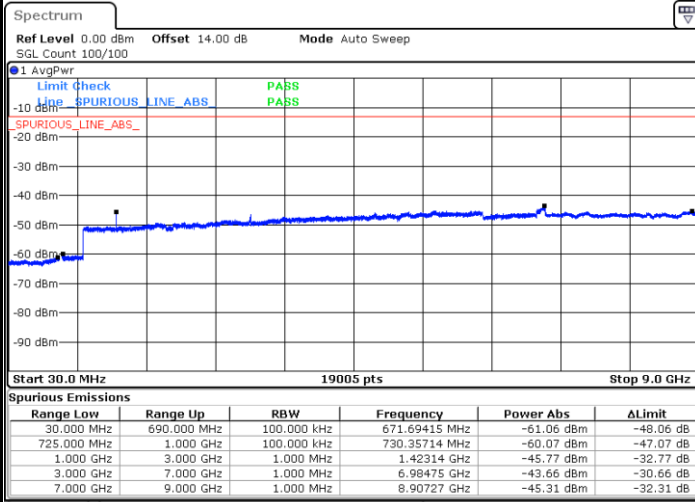
Conducted Spurious Emission





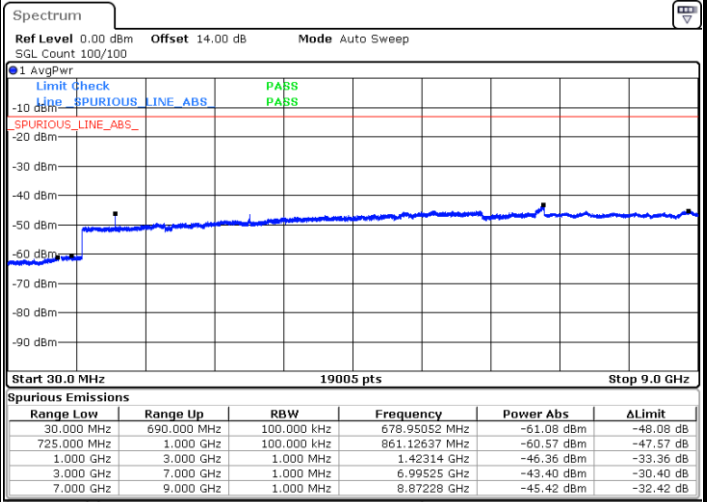
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 17.AUG.2020 14:19:29

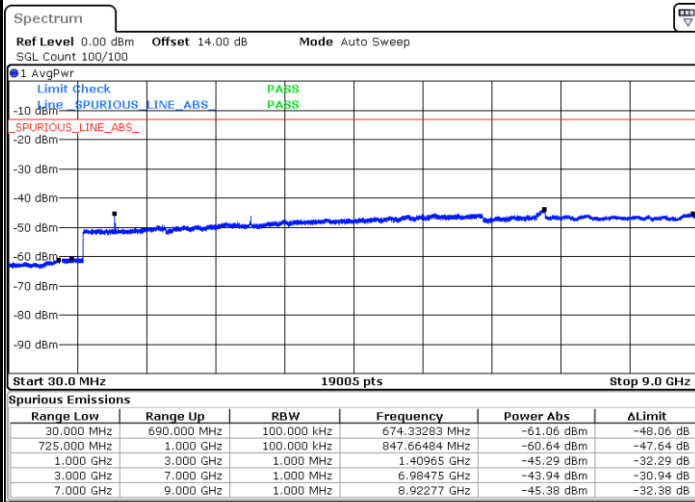
Highest Channel / 16QAM



Date: 17.AUG.2020 14:20:11

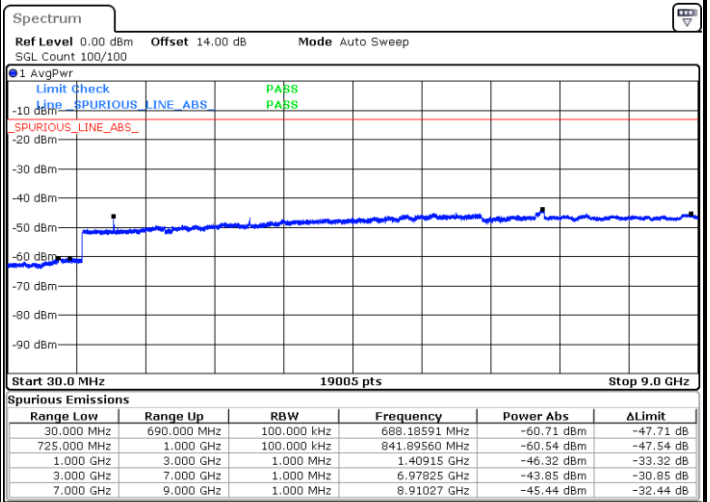
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 17.AUG.2020 14:24:39

Lowest Channel / 16QAM

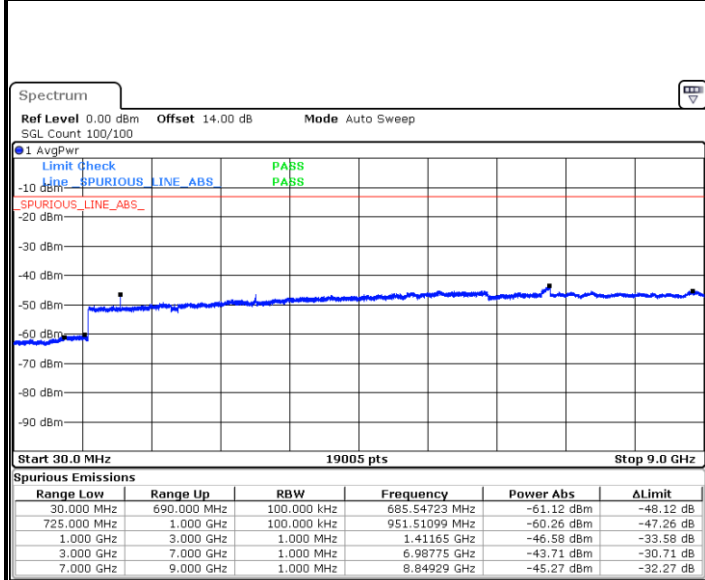


Date: 17.AUG.2020 14:25:22



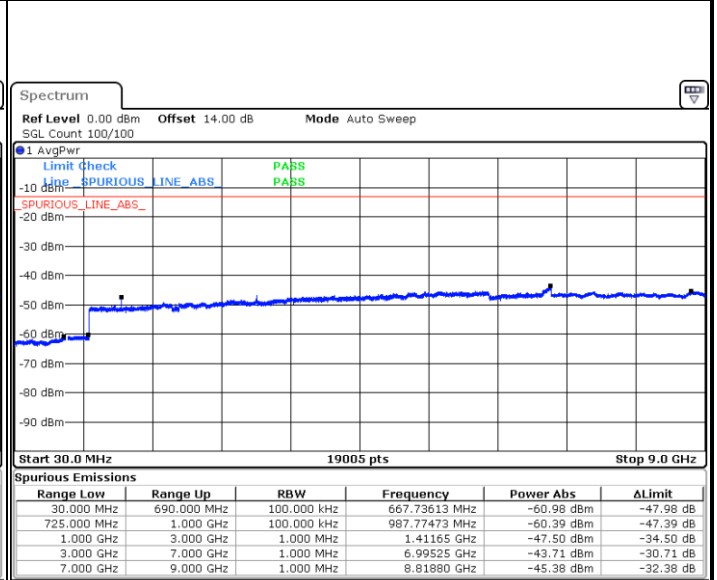
LTE Band 17 / 10MHz

Middle Channel / QPSK



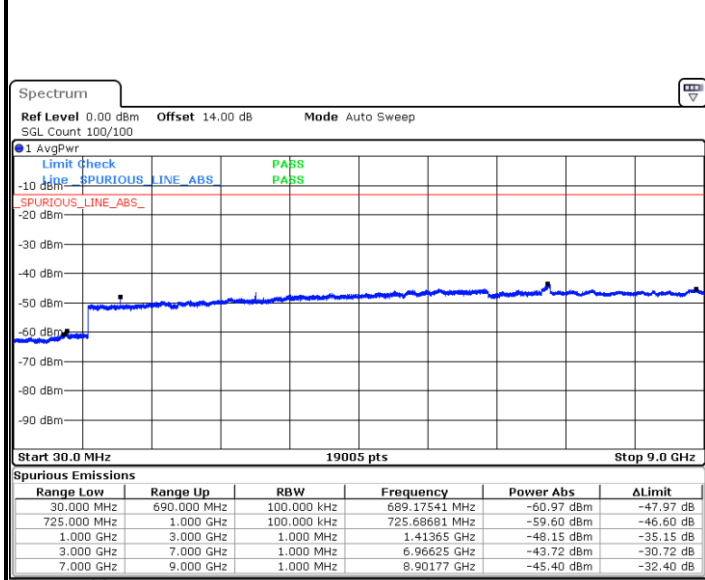
Date: 17.AUG.2020 14:26:49

Middle Channel / 16QAM



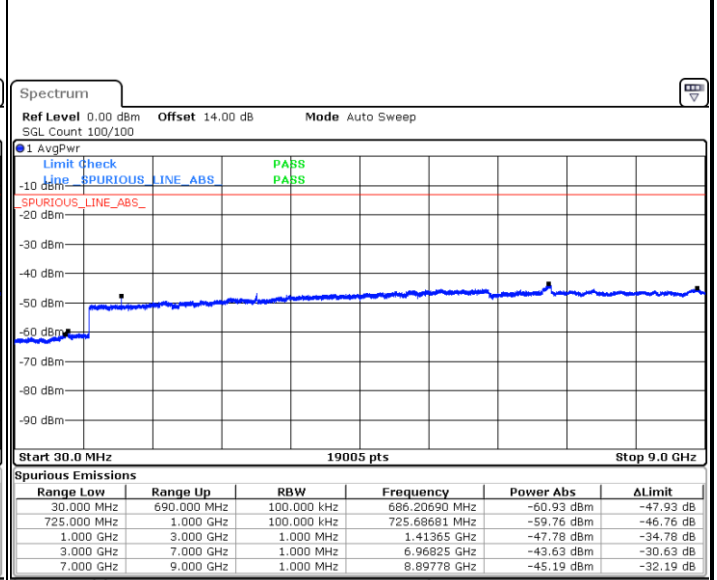
Date: 17.AUG.2020 14:27:31

Highest Channel / QPSK



Date: 17.AUG.2020 14:31:59

Highest Channel / 16QAM



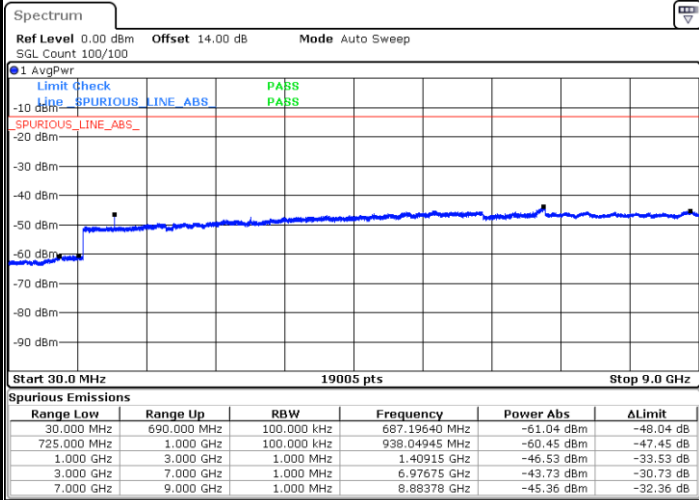
Date: 17.AUG.2020 14:32:41



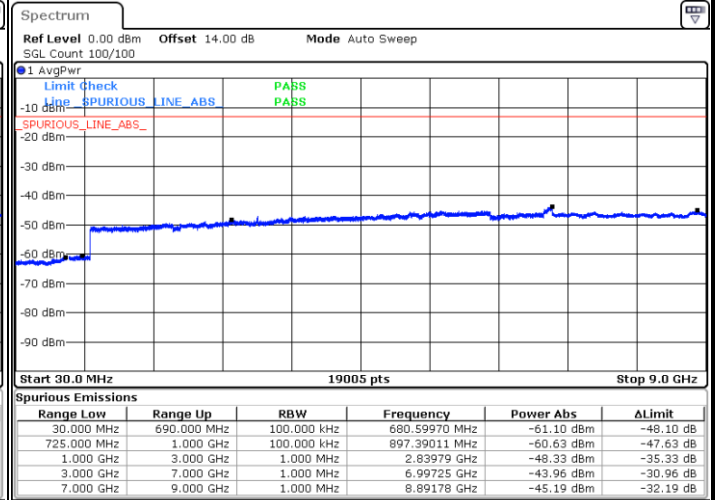
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

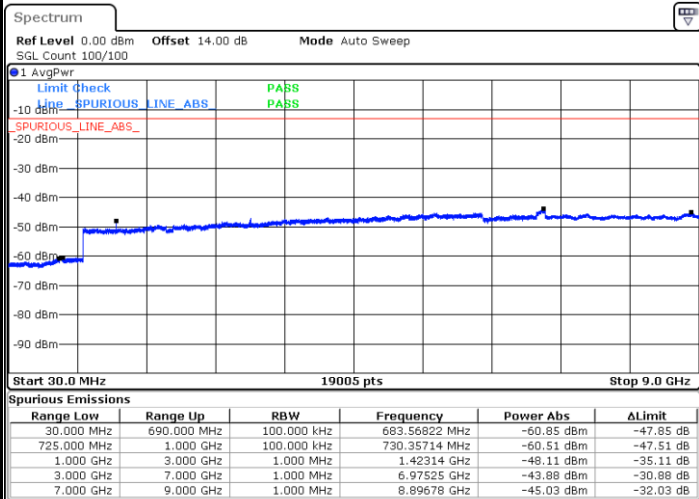


Date: 17.AUG.2020 15:13:54



Date: 17.AUG.2020 15:14:58

Highest Channel / 64QAM



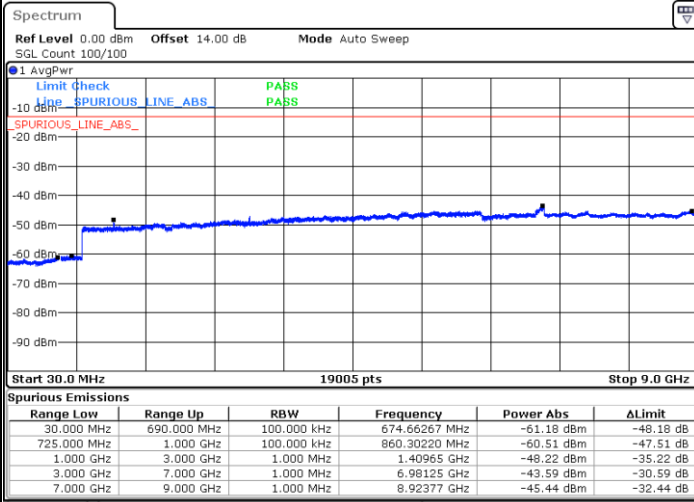
Date: 17.AUG.2020 15:17:33



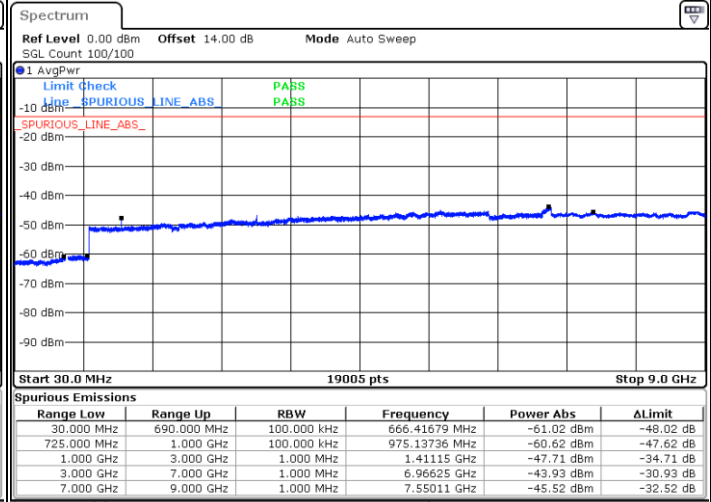
LTE Band 17 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

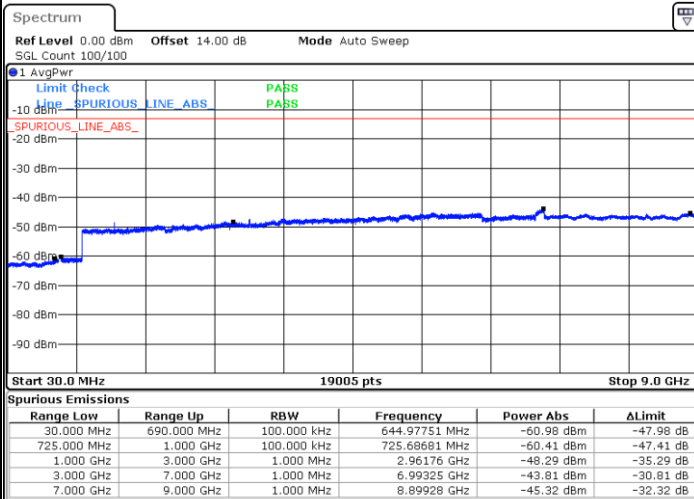


Date: 17.AUG.2020 15:20:07



Date: 17.AUG.2020 15:21:12

Highest Channel / 64QAM



Date: 17.AUG.2020 15:23:47



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664.18	-44.68	-13	-31.68	-52.46	-47.93	4.00	9.40	H
	2496.27	-46.80	-13	-33.80	-58.86	-50.37	4.88	10.60	H
	3328.36	-61.99	-13	-48.99	-76.79	-66.92	5.52	12.60	H
	1664.18	-43.90	-13	-30.90	-51.82	-47.15	4.00	9.40	V
	2496.27	-58.45	-13	-45.45	-70.60	-62.02	4.88	10.60	V
	3328.36	-61.83	-13	-48.83	-76.61	-66.76	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-59.86	-13	-46.86	-68.88	-63.11	4.00	9.40	H
	2109	-65.82	-13	-52.82	-76.98	-69.39	4.88	10.60	H
	2812	-62.55	-13	-49.55	-76.39	-67.48	5.52	12.60	H
	1406	-57.23	-13	-44.23	-66.14	-60.48	4.00	9.40	V
	2109	-65.59	-13	-52.59	-76.98	-69.16	4.88	10.60	V
	2812	-62.42	-13	-49.42	-76.19	-67.35	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 17 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1415.68	-55.47	-13	-42.47	-64.47	-58.72	4.00	9.40	H
	2123.58	-65.30	-13	-52.30	-76.62	-68.87	4.88	10.60	H
	2831.36	-62.68	-13	-49.68	-76.57	-67.61	5.52	12.60	H
	1415.68	-56.79	-13	-43.79	-65.68	-60.04	4.00	9.40	V
	2123.58	-64.91	-13	-51.91	-76.49	-68.48	4.88	10.60	V
	2831.36	-62.60	-13	-49.60	-76.42	-67.53	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 17 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1411.18	-54.83	-13	-41.83	-63.84	-58.08	4.00	9.40	H
	2116.77	-65.26	-13	-52.26	-76.51	-68.83	4.88	10.60	H
	2822.36	-62.52	-13	-49.52	-76.38	-67.45	5.52	12.60	H
	1411.18	-54.72	-13	-41.72	-63.62	-57.97	4.00	9.40	V
	2116.77	-65.08	-13	-52.08	-76.58	-68.65	4.88	10.60	V
	2822.36	-62.42	-13	-49.42	-76.21	-67.35	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.