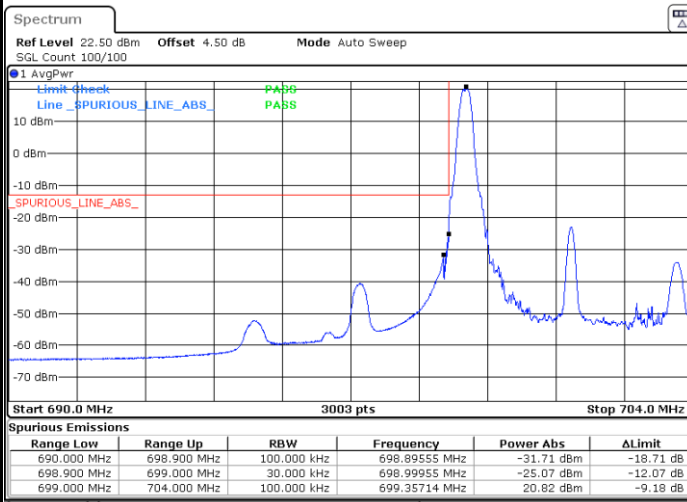




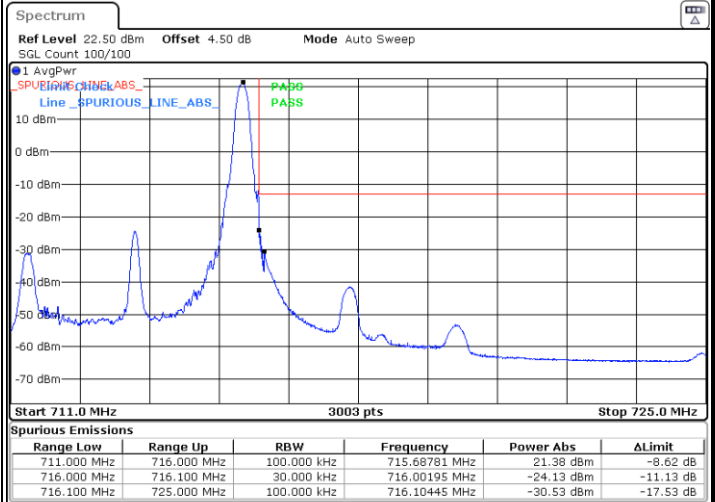
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



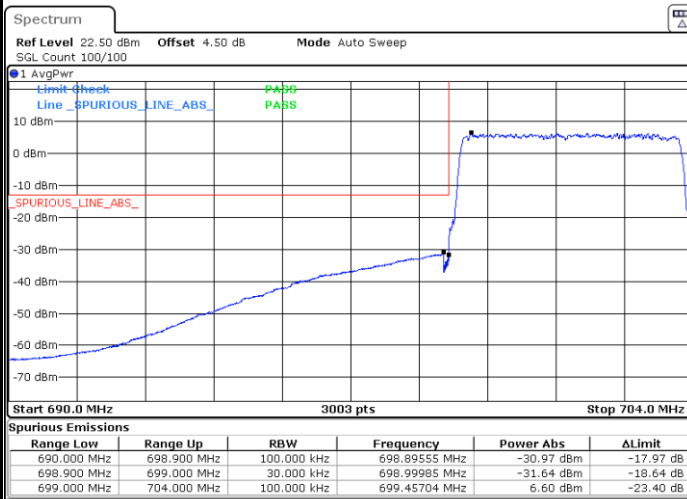
Date: 25.AUG.2020 10:22:52

Highest Band Edge / 1 RB



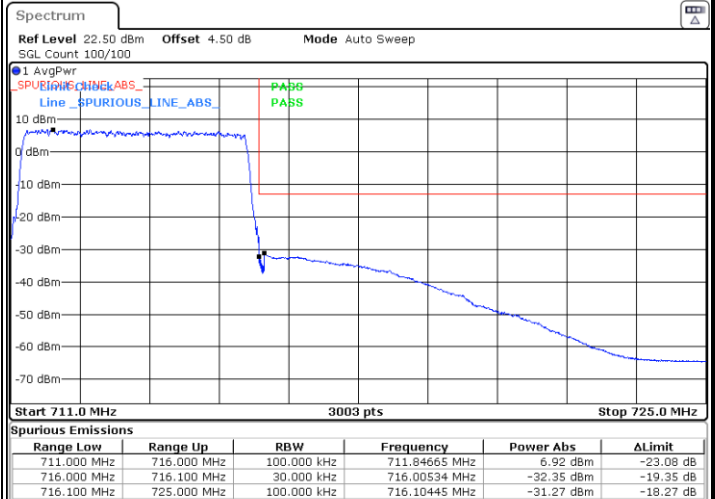
Date: 25.AUG.2020 10:25:51

Lowest Band Edge / Full RB



Date: 25.AUG.2020 10:22:09

Highest Band Edge / Full RB

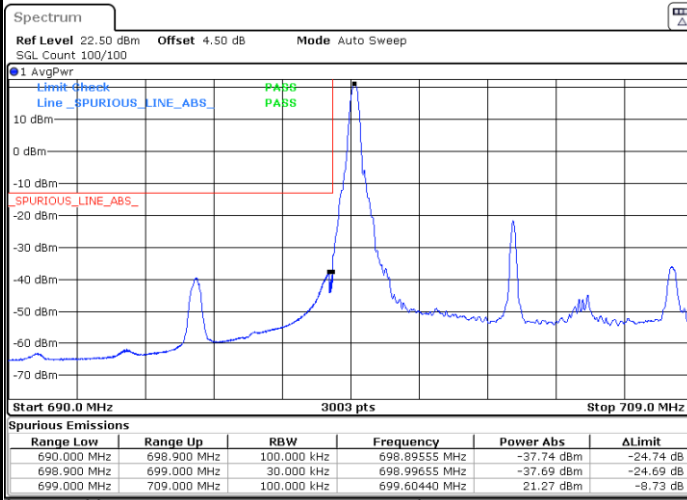


Date: 25.AUG.2020 10:25:14



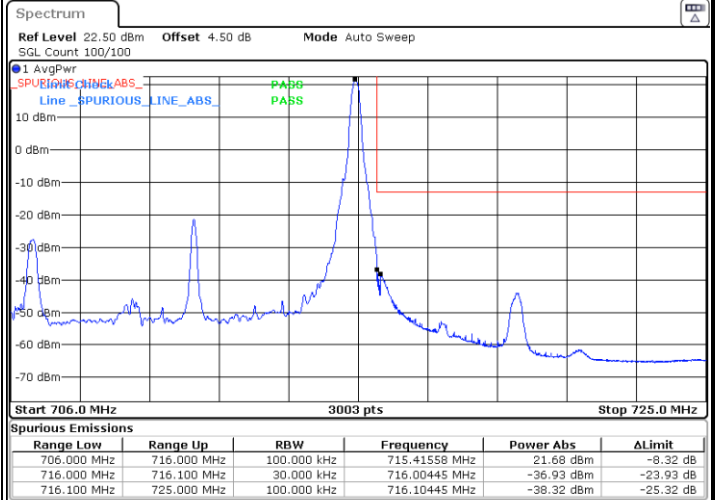
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



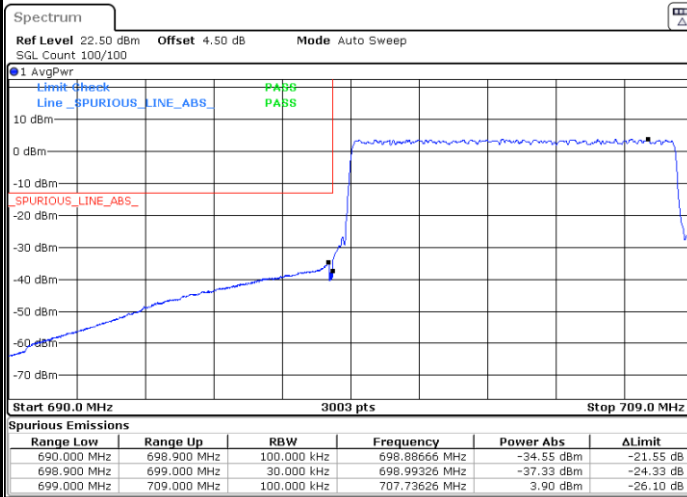
Date: 6 AUG. 2020 15:47:37

Highest Band Edge / 1 RB



Date: 6 AUG. 2020 16:08:57

Lowest Band Edge / Full RB



Date: 6 AUG. 2020 15:44:10

Highest Band Edge / Full RB

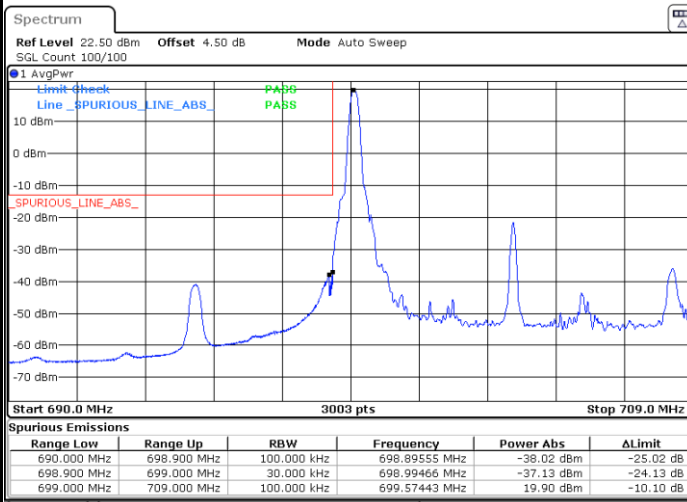


Date: 6 AUG. 2020 16:05:20



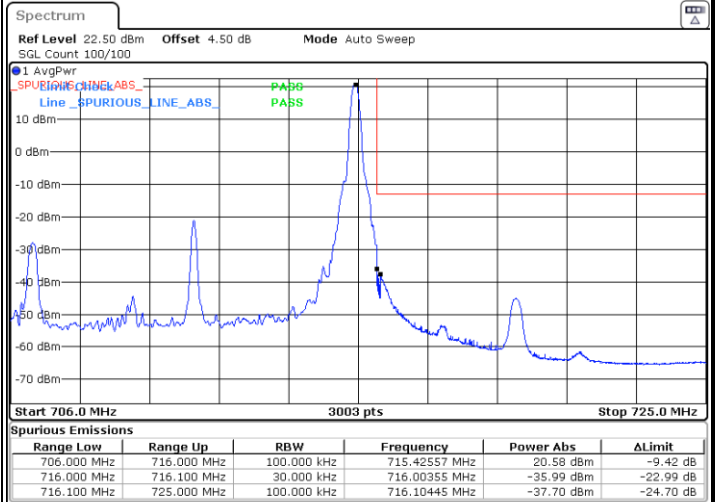
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



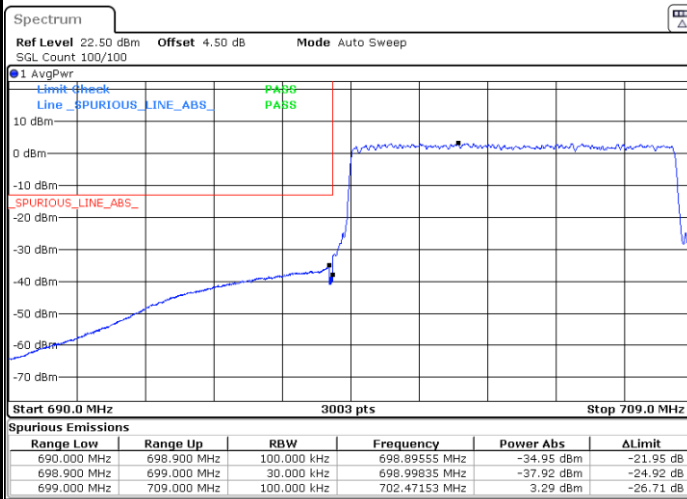
Date: 6 AUG. 2020 15:45:39

Highest Band Edge / 1 RB



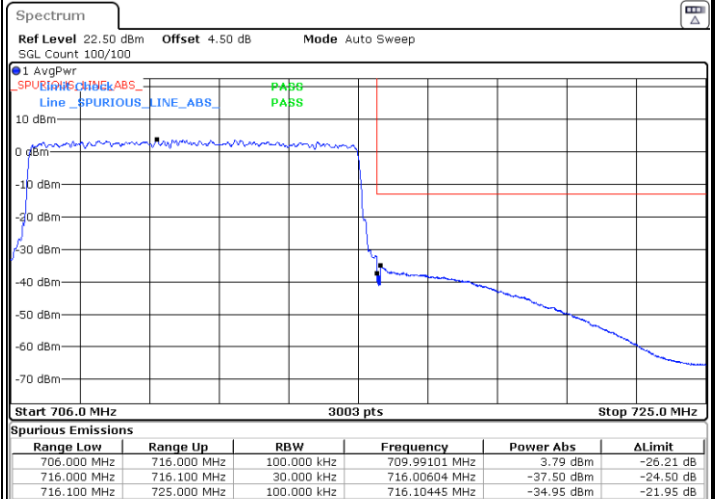
Date: 6 AUG. 2020 16:09:36

Lowest Band Edge / Full RB



Date: 6 AUG. 2020 15:43:04

Highest Band Edge / Full RB

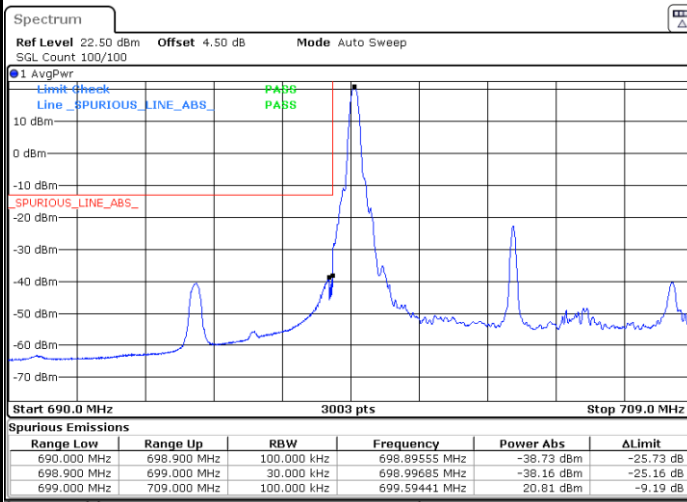


Date: 6 AUG. 2020 16:07:04



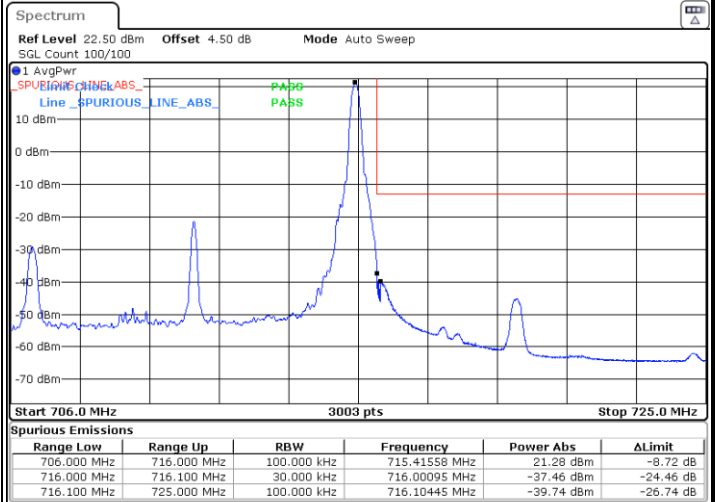
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



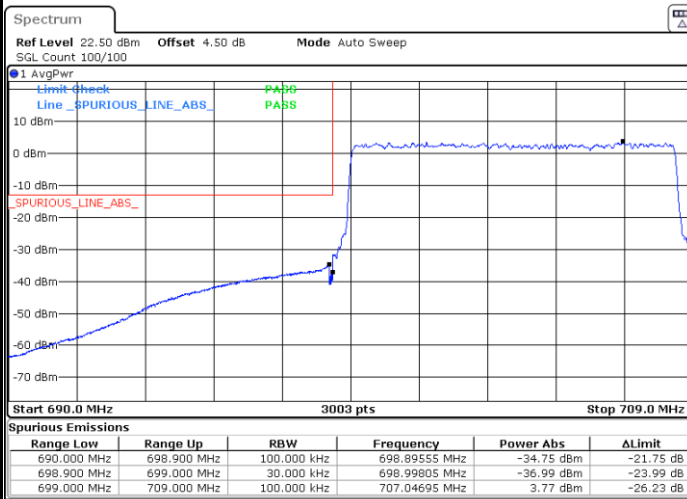
Date: 25.AUG.2020 10:31:28

Highest Band Edge / 1 RB



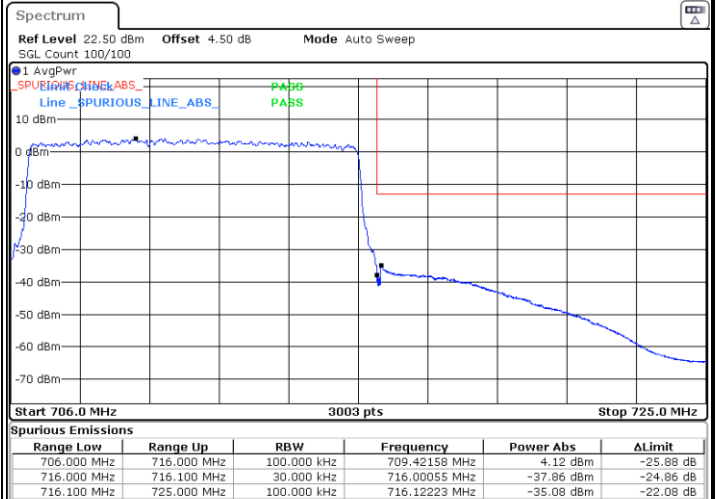
Date: 25.AUG.2020 10:34:39

Lowest Band Edge / Full RB



Date: 25.AUG.2020 10:30:36

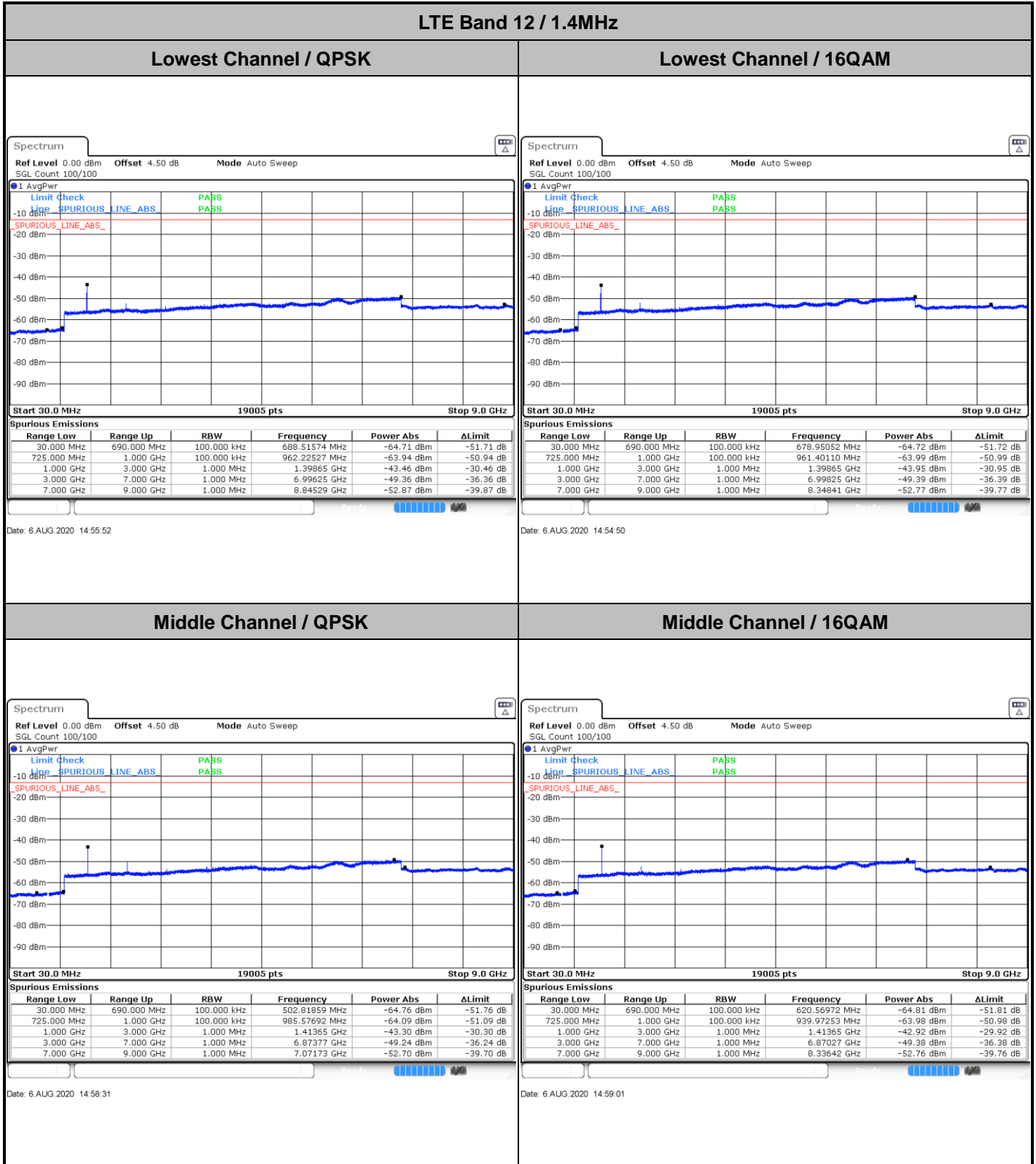
Highest Band Edge / Full RB



Date: 25.AUG.2020 10:33:39



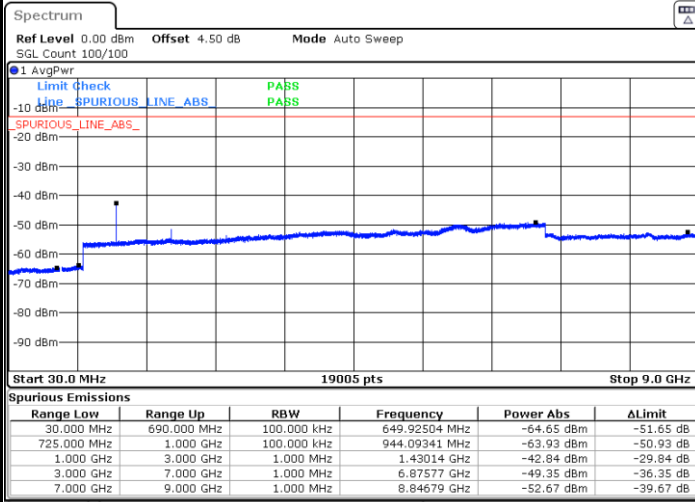
Conducted Spurious Emission





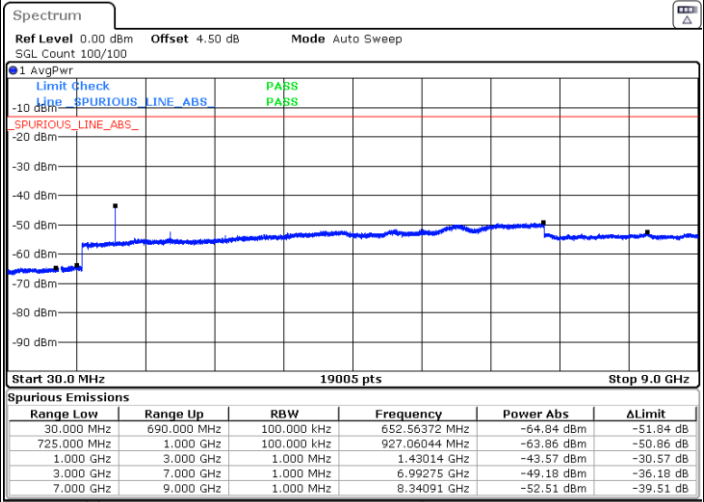
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 6 AUG.2020 15:08:18

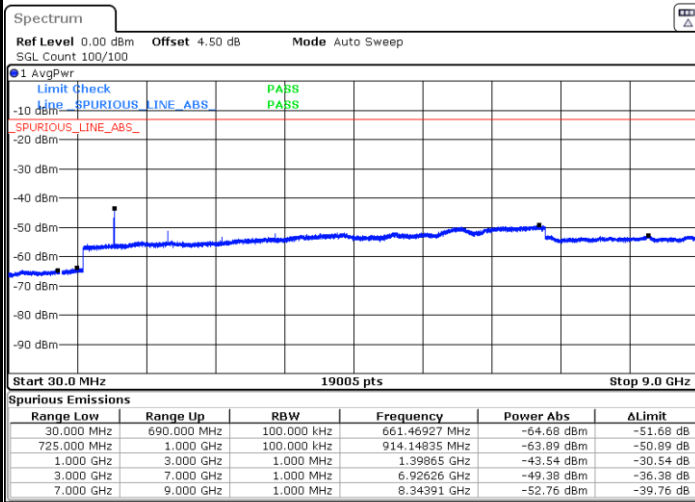
Highest Channel / 16QAM



Date: 6 AUG.2020 15:07:47

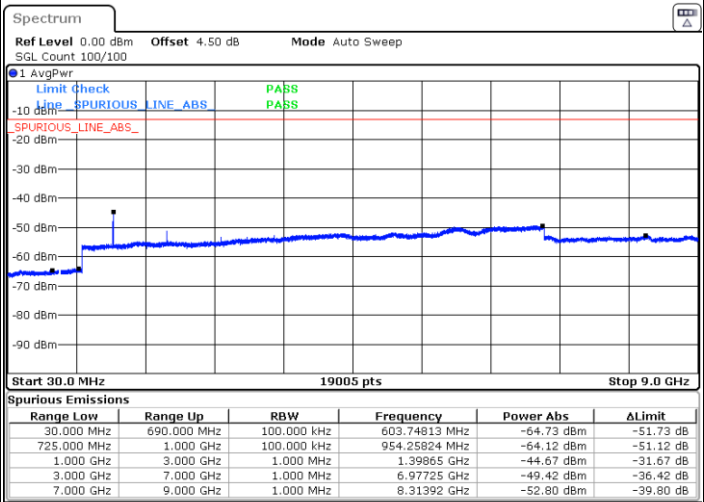
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 6 AUG.2020 15:14:35

Lowest Channel / 16QAM



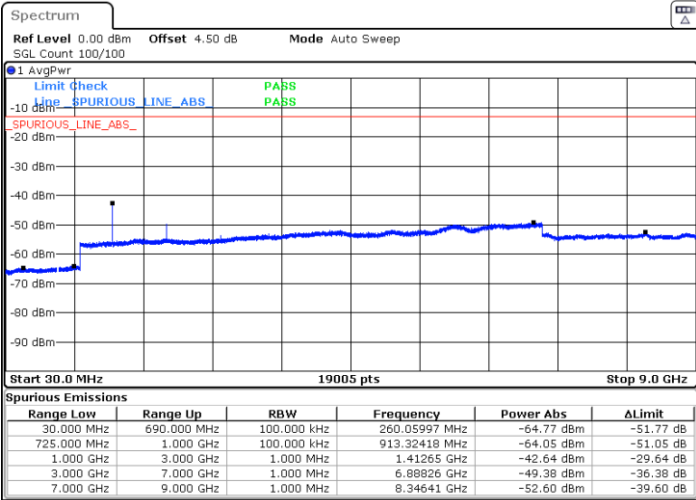
Date: 6 AUG.2020 15:15:46



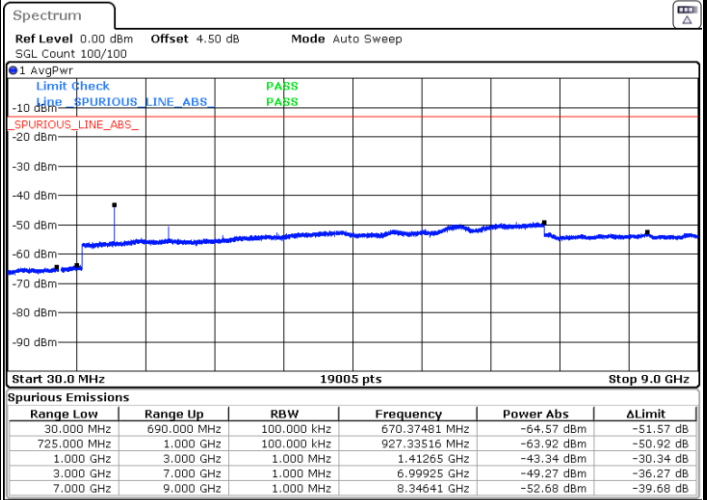
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



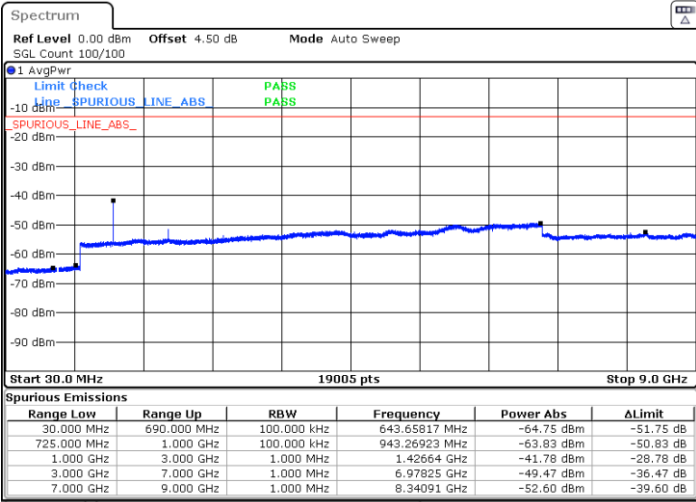
Date: 6 AUG.2020 15:18:45



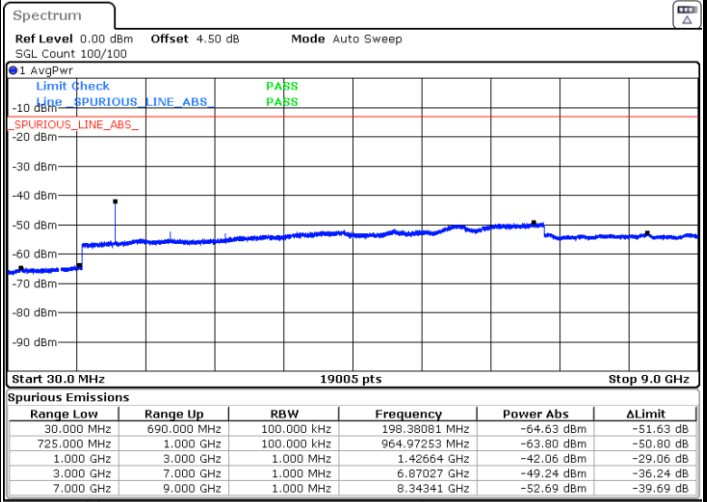
Date: 6 AUG.2020 15:18:09

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 AUG.2020 15:24:49



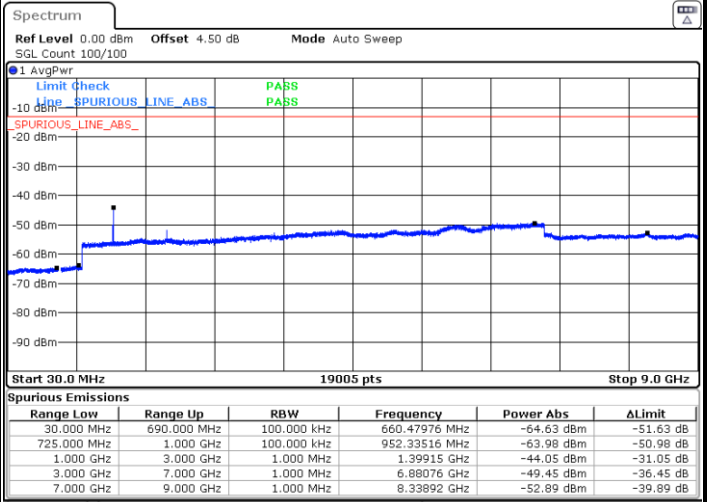
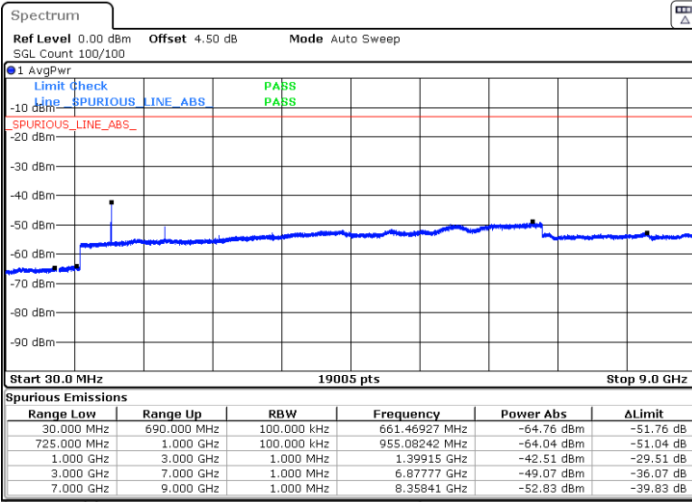
Date: 6 AUG.2020 15:25:20



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

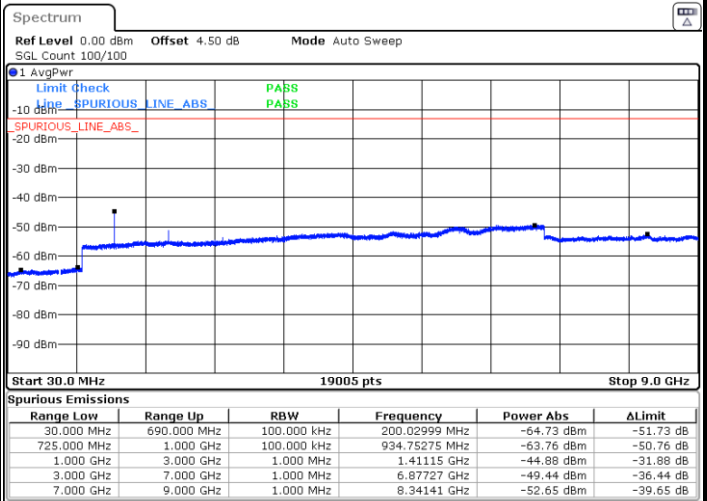
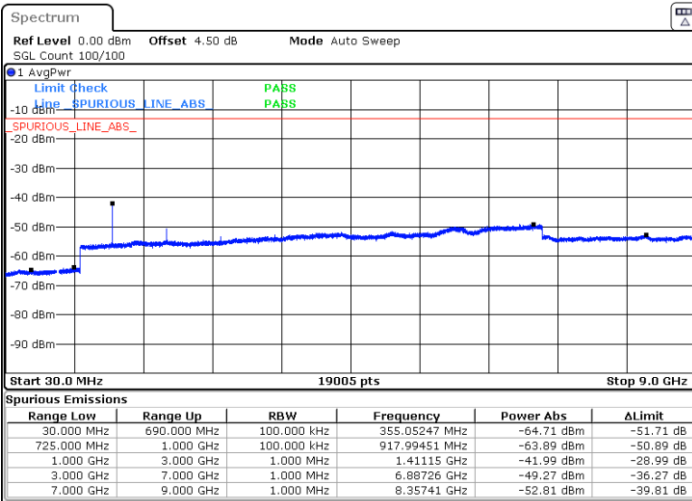


Date: 6 AUG.2020 15:32:25

Date: 6 AUG.2020 15:30:53

Middle Channel / QPSK

Middle Channel / 16QAM



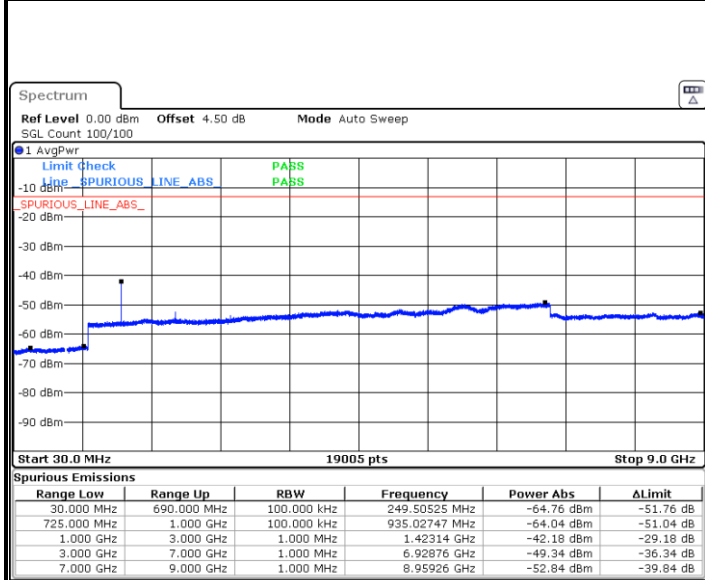
Date: 6 AUG.2020 15:33:14

Date: 6 AUG.2020 15:34:07



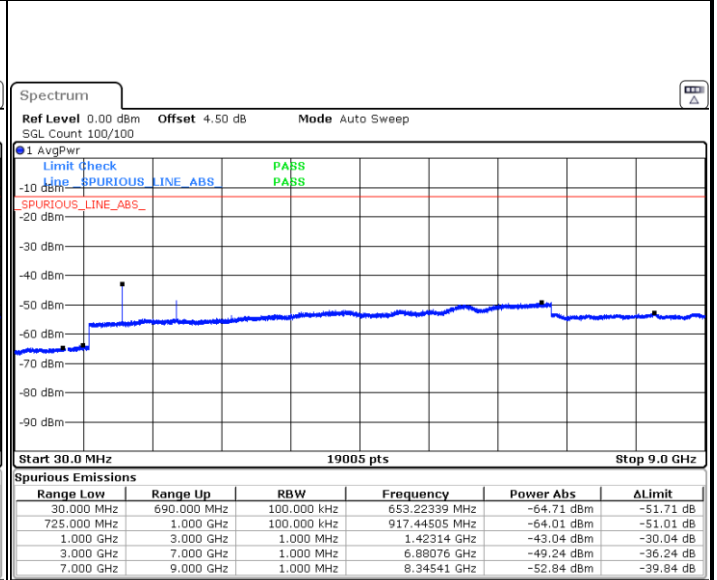
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 6 AUG.2020 15:39:38

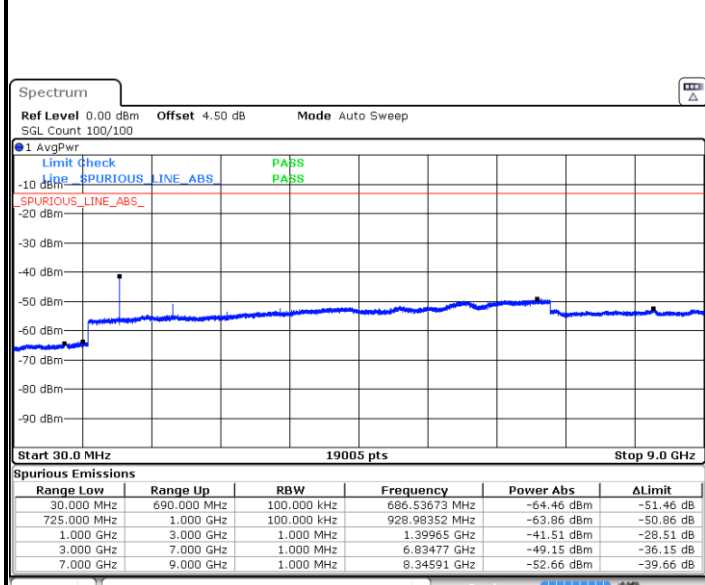
Highest Channel / 16QAM



Date: 6 AUG.2020 15:39:12

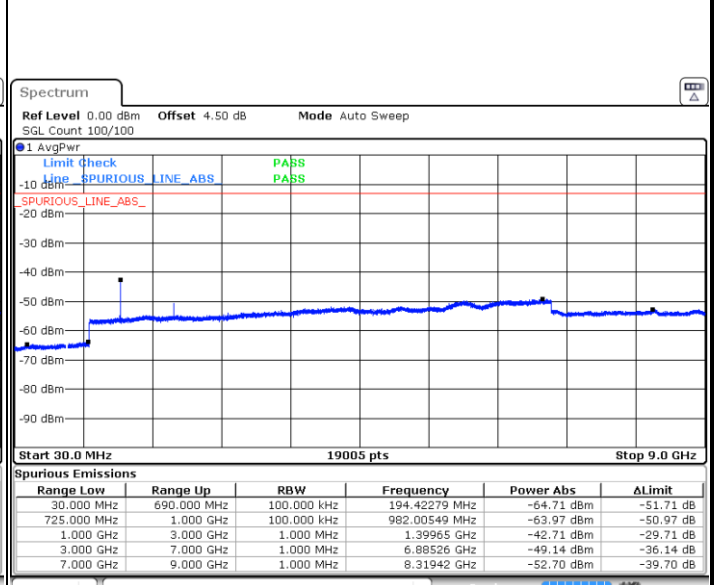
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 6 AUG.2020 15:47:54

Lowest Channel / 16QAM



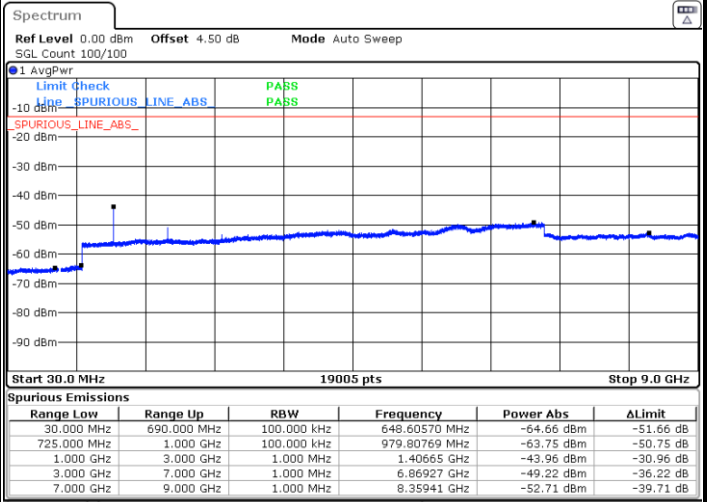
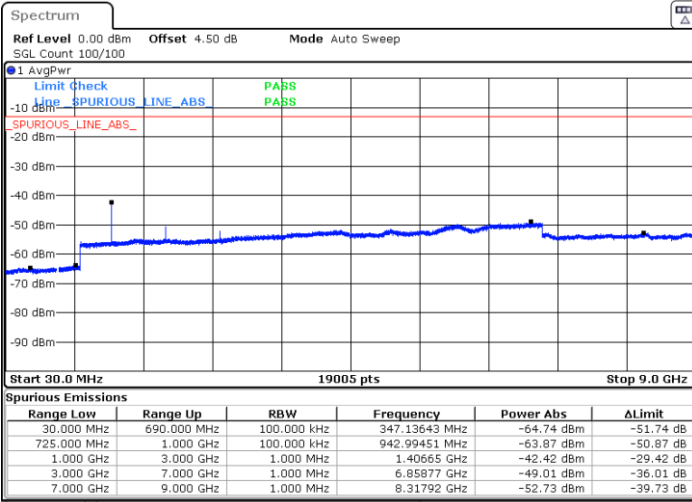
Date: 6 AUG.2020 15:48:02



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

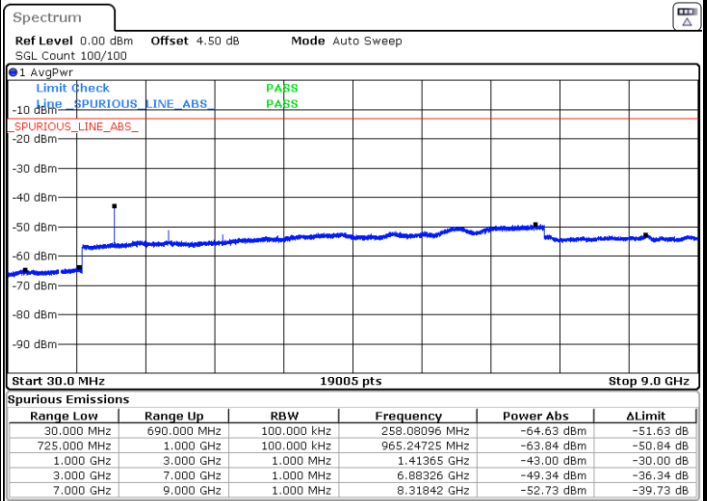
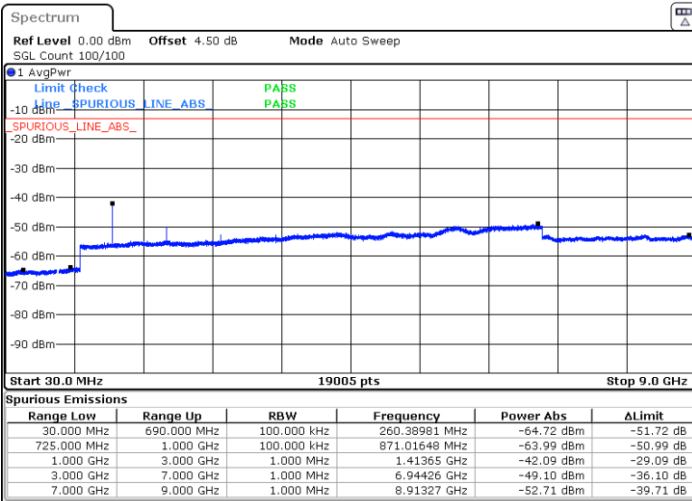


Date: 6 AUG.2020 15:51:43

Date: 6 AUG.2020 16:01:39

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 AUG.2020 16:08:09

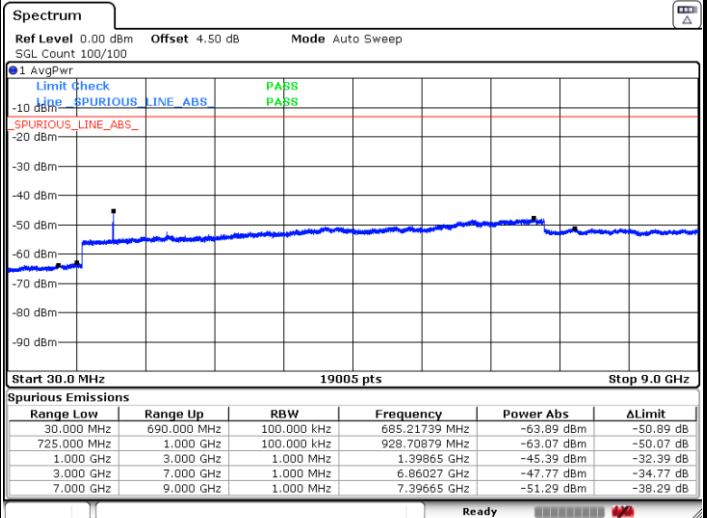
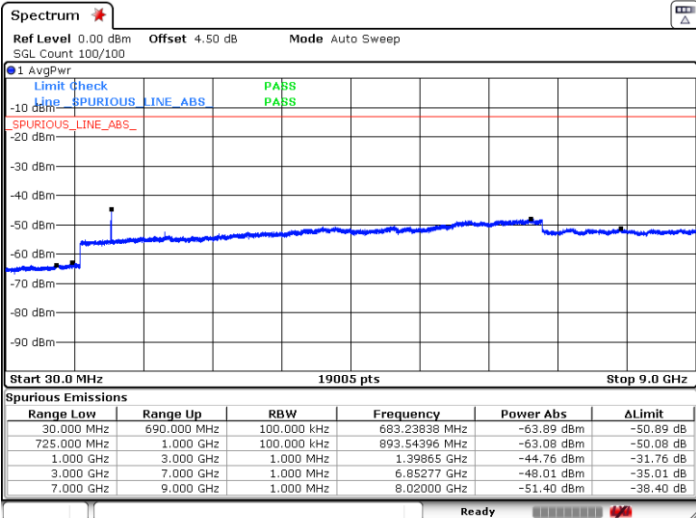
Date: 6 AUG.2020 16:07:44



LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

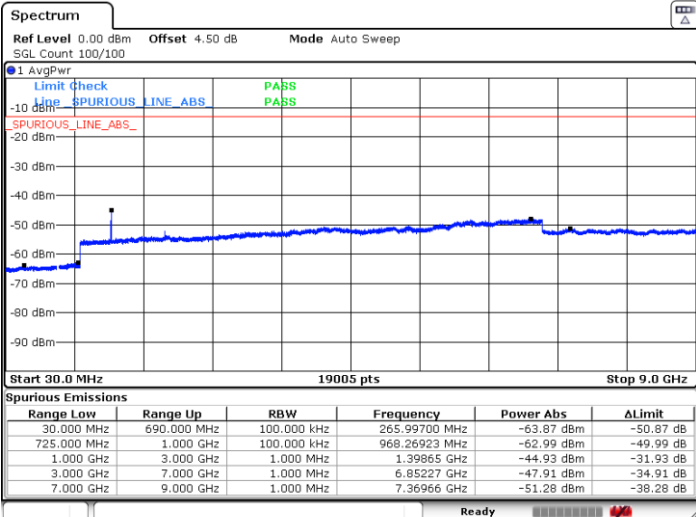
Middle Channel / 64QAM



Date: 25.AUG.2020 09:49:35

Date: 25.AUG.2020 09:50:02

Highest Channel / 64QAM



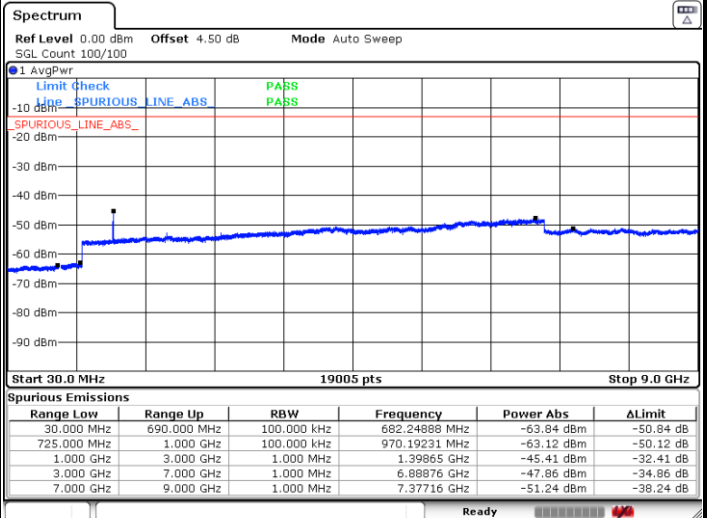
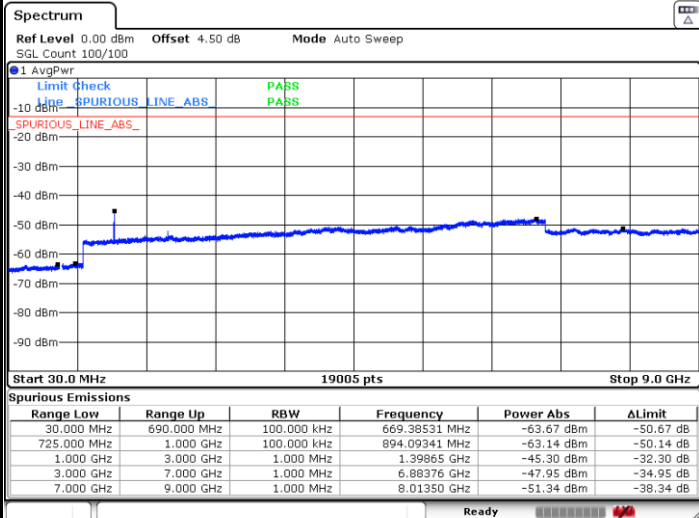
Date: 25.AUG.2020 09:50:50



LTE Band 12 / 3MHz

Lowest Channel / 64QAM

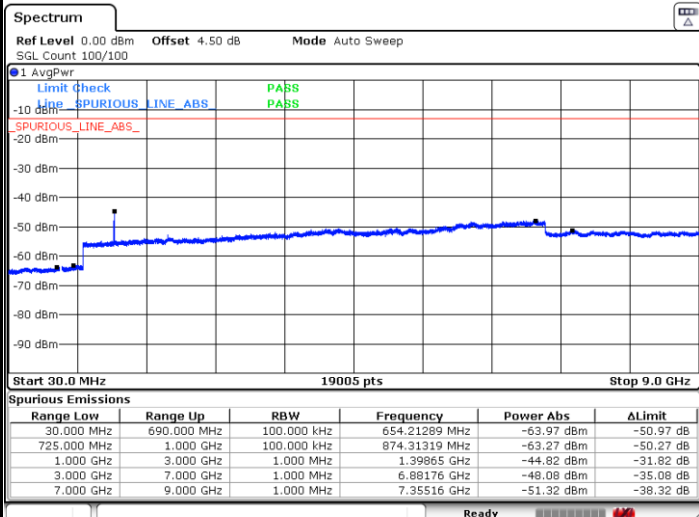
Middle Channel / 64QAM



Date: 25.AUG.2020 09:51:45

Date: 25.AUG.2020 09:52:24

Highest Channel / 64QAM



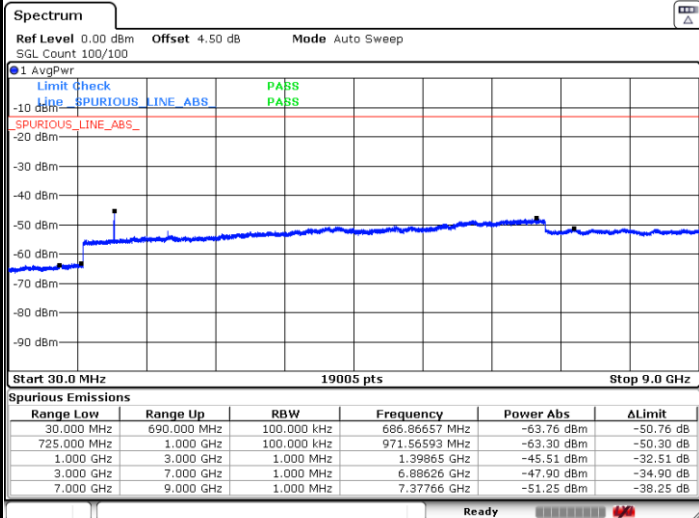
Date: 25.AUG.2020 09:53:04



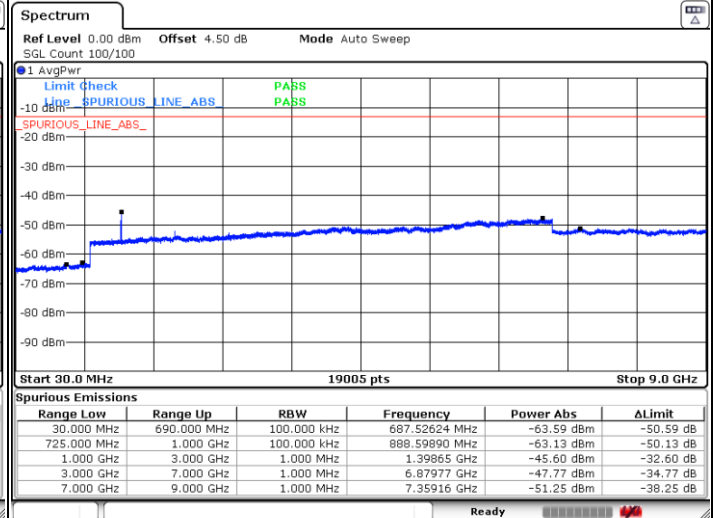
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

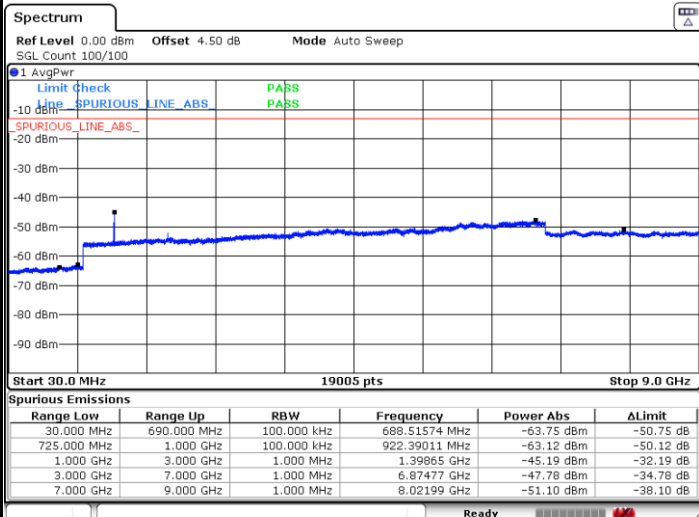


Date: 25.AUG.2020 09:53:29



Date: 25.AUG.2020 09:53:54

Highest Channel / 64QAM



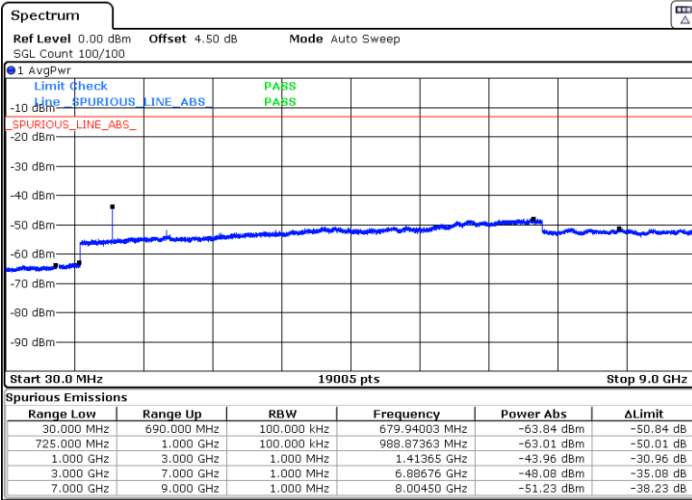
Date: 25.AUG.2020 09:54:21



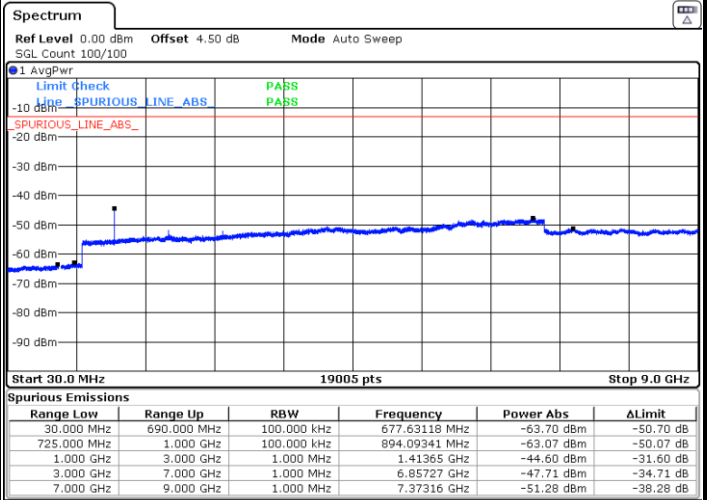
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

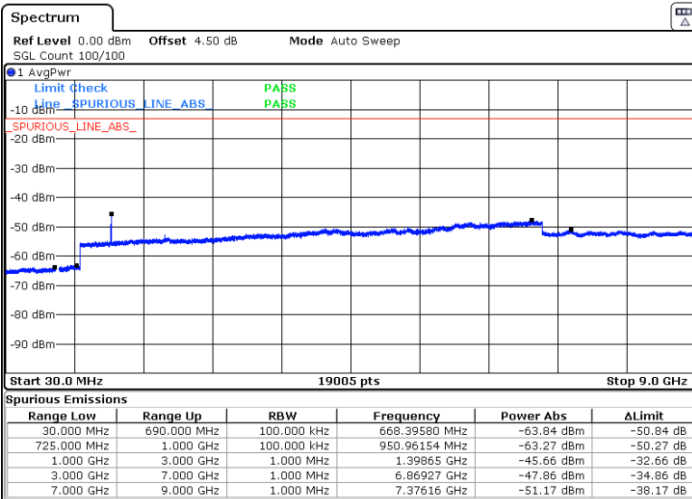


Date: 25.AUG.2020 10:35:57



Date: 25.AUG.2020 10:36:23

Highest Channel / 64QAM



Date: 25.AUG.2020 09:51:20



Frequency Stability

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

Note:

1. Normal Voltage =4.0V. ; Battery End Point (BEP) =3.8V. ; Maximum Voltage =4.4
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.64	-13	-43.64	-68.90	2.64	14.90	H
	5613	-56.82	-13	-43.82	-68.68	2.94	14.80	H
	7482	-51.30	-13	-38.30	-61.07	3.39	13.16	H
	3741	-58.43	-13	-45.43	-70.69	2.64	14.90	V
	5613	-56.59	-13	-43.59	-68.45	2.94	14.80	V
	7482	-51.19	-13	-38.19	-60.96	3.39	13.16	V

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

LTE Band 4 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447	-54.95	-13	-41.95	-65.69	2.604	13.34	H
	5172	-57.66	-13	-44.66	-68.17	3.011	13.52	H
	6900	-54.03	-13	-41.03	-64.23	3.271	13.47	H
	3447	-58.11	-13	-45.11	-68.85	2.604	13.34	V
	5172	-57.24	-13	-44.24	-67.75	3.011	13.52	V
	6900	-53.88	-13	-40.88	-64.08	3.271	13.47	V

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

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-67.63	-13	-54.63	-74.60	1.58	10.70	H
	2496	-65.93	-13	-52.93	-74.18	2.102	12.50	H
	3330	-63.92	-13	-50.92	-72.81	2.856	13.90	H
	1664	-67.35	-13	-54.35	-74.32	1.58	10.70	V
	2496	-65.48	-13	-52.48	-73.73	2.10	12.50	V
	3330	-66.78	-13	-53.78	-75.67	2.86	13.90	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-68.95	-13	-55.95	-75.92	1.58	10.70	H
	2110	-66.85	-13	-53.85	-75.10	2.102	12.50	H
	2812	-65.30	-13	-52.30	-74.19	2.856	13.90	H
	3516	-63.58	-13	-50.58	-72.04	2.689	13.30	H
	1406	-68.77	-13	-55.77	-75.74	1.58	10.70	V
	2110	-66.40	-13	-53.40	-74.65	2.10	12.50	V
	2812	-65.34	-13	-52.34	-74.23	2.86	13.90	V
	3516	-63.67	-13	-50.67	-72.13	2.69	13.30	V

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