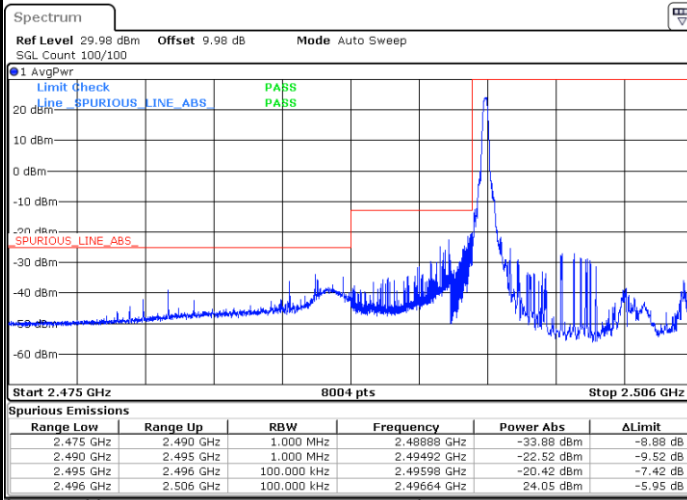




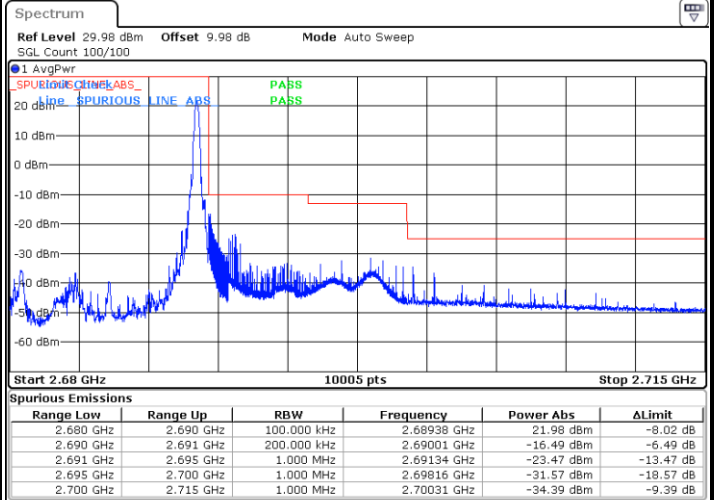
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



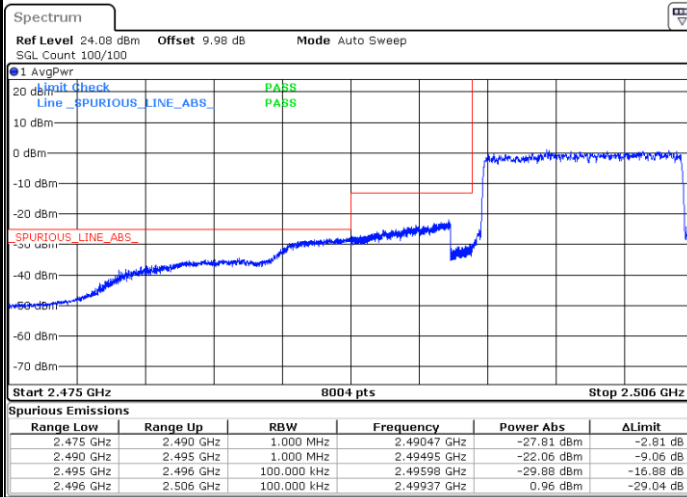
Date: 7 JUL 2020 20:45:55

Highest Band Edge / 1 RB



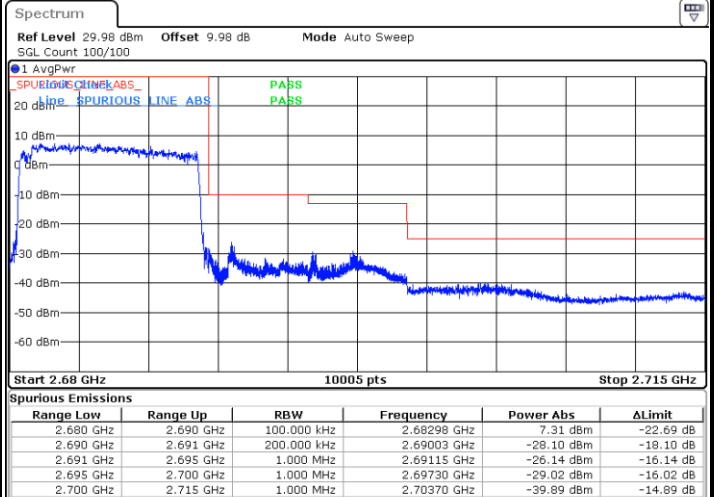
Date: 7 JUL 2020 20:50:27

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:32:30

Highest Band Edge / Full RB

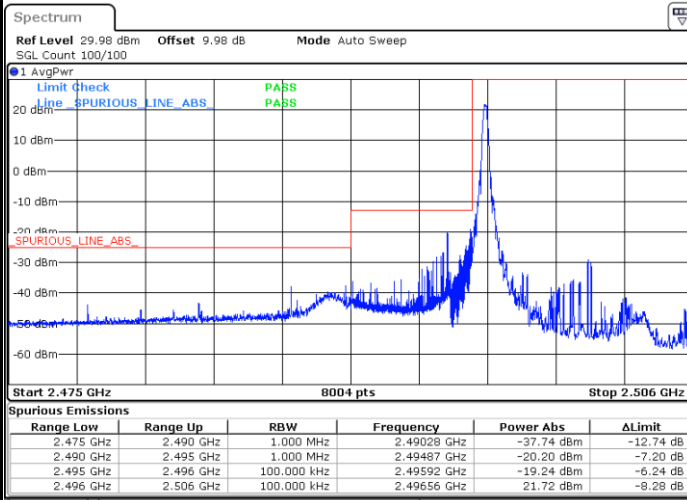


Date: 7 JUL 2020 20:52:44



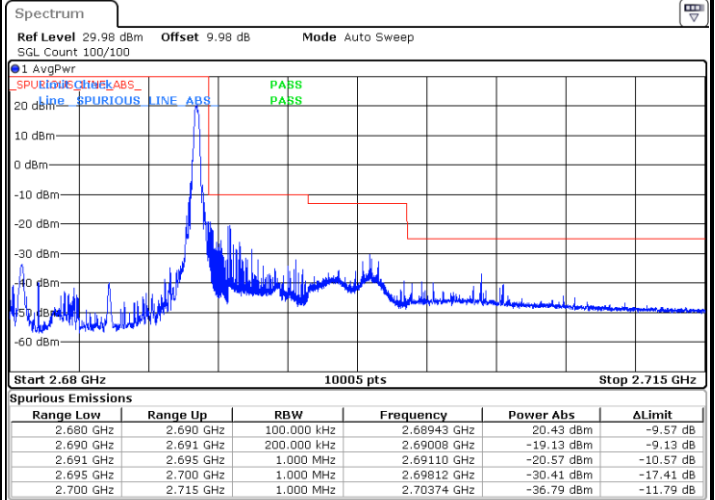
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



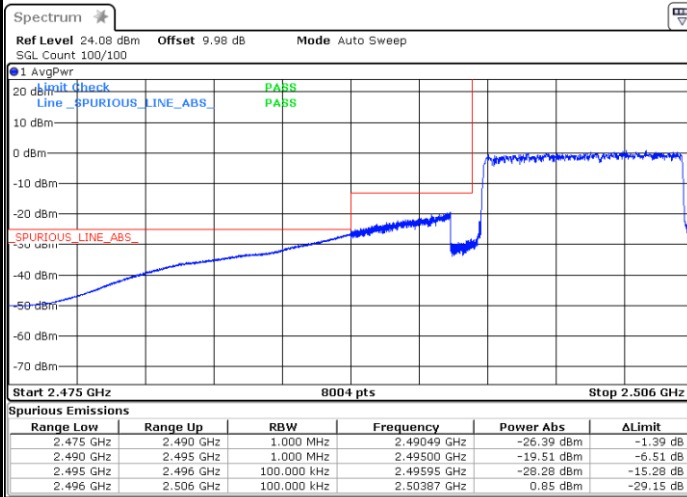
Date: 7 JUL 2020 20:47:03

Highest Band Edge / 1 RB



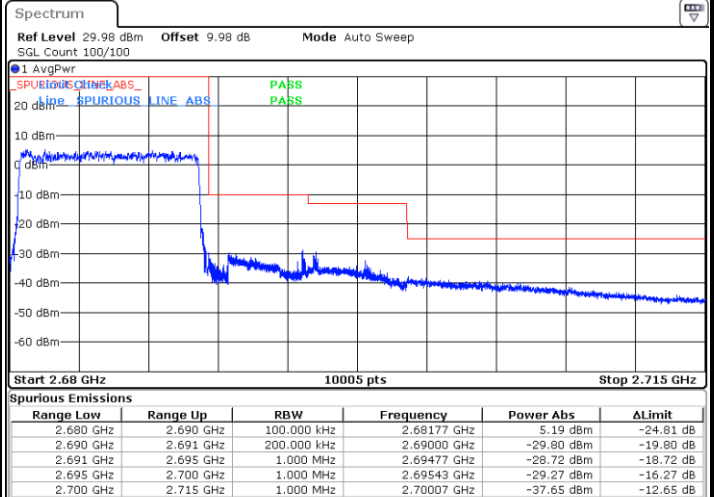
Date: 7 JUL 2020 20:51:35

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:09:59

Highest Band Edge / Full RB

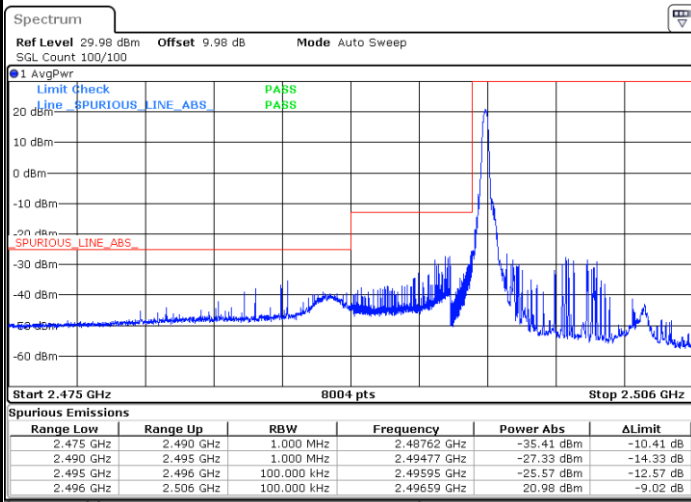


Date: 7 JUL 2020 20:53:51



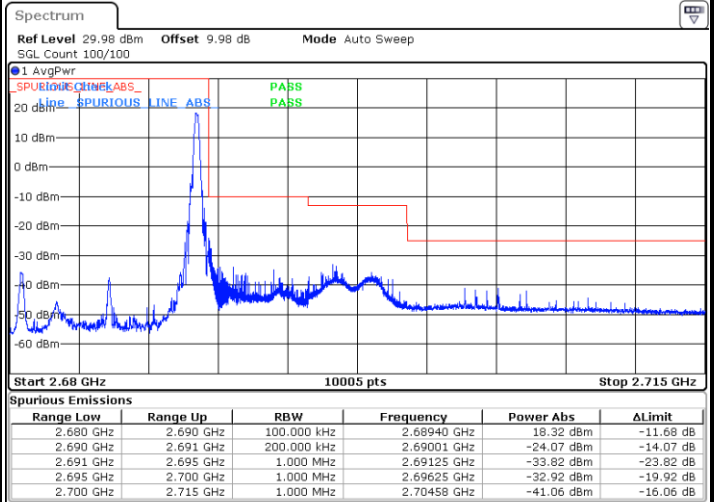
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



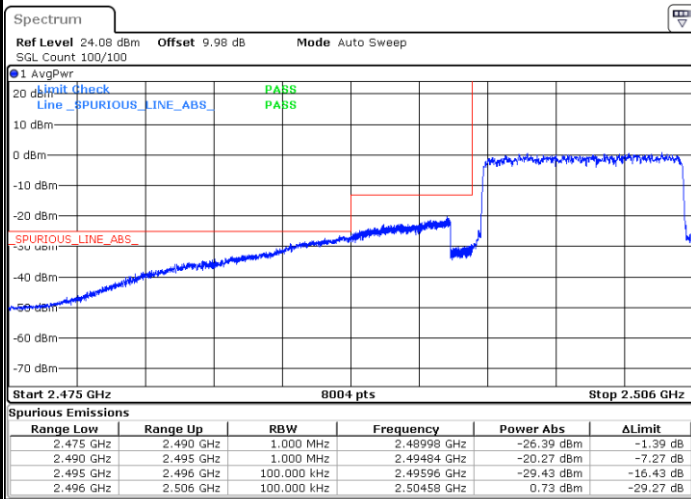
Date: 7 JUL 2020 21:17:39

Highest Band Edge / 1 RB



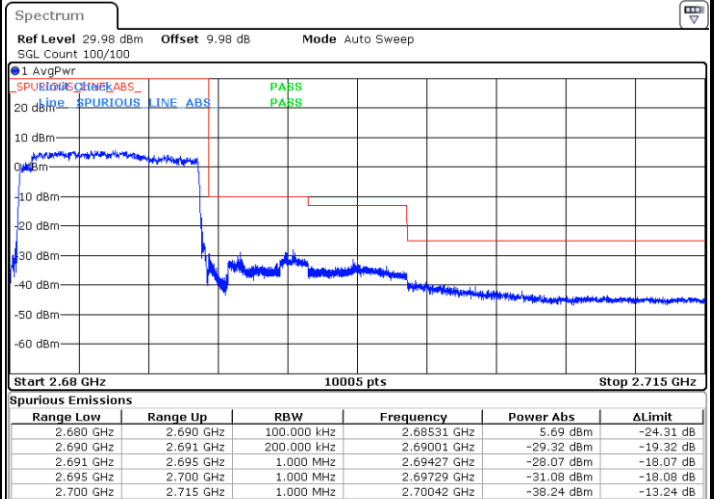
Date: 7 JUL 2020 21:21:03

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:11:00

Highest Band Edge / Full RB

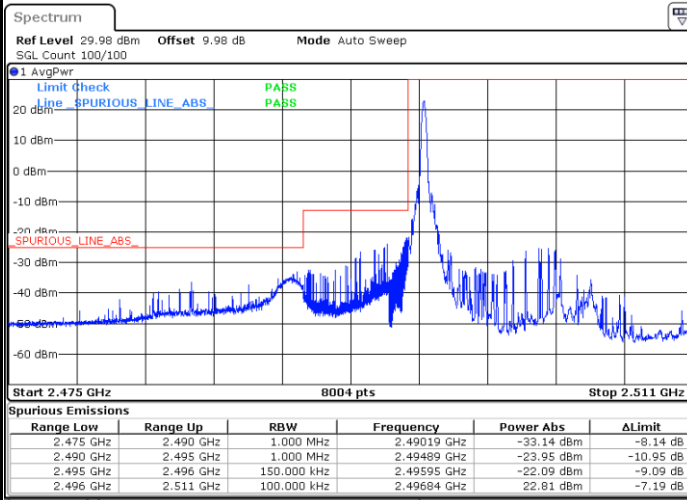


Date: 7 JUL 2020 21:19:55



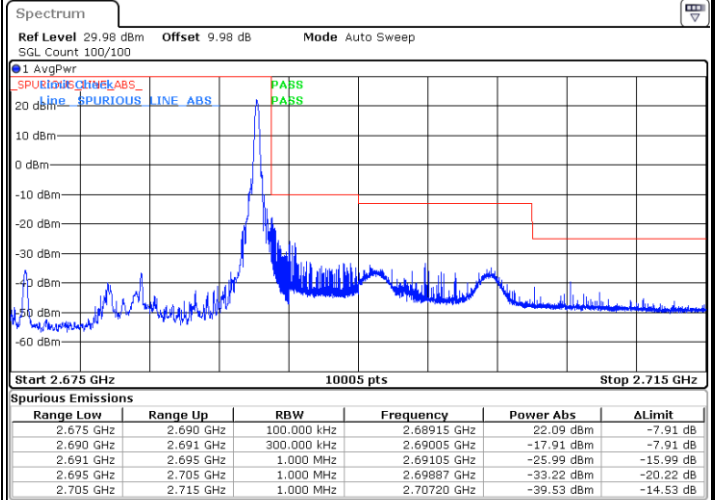
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



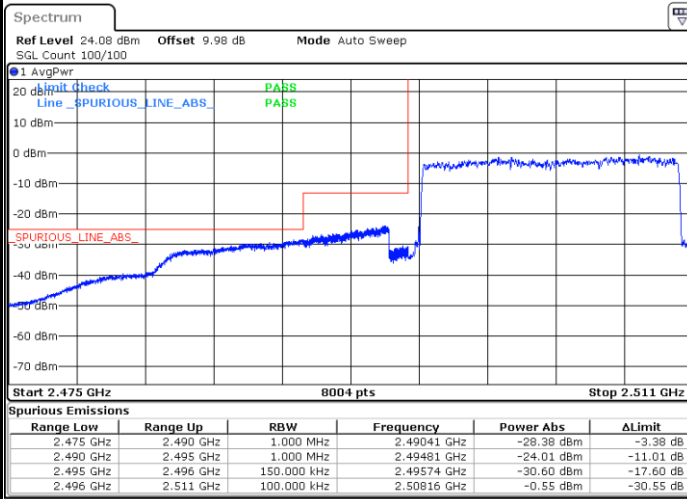
Date: 7 JUL 2020 20:54:59

Highest Band Edge / 1 RB



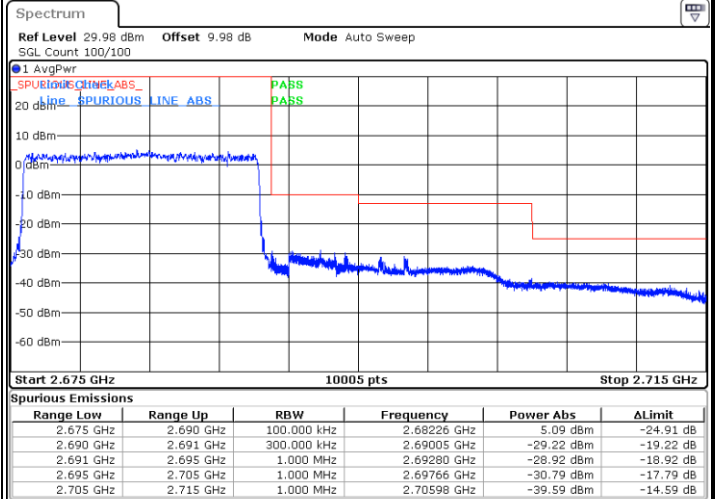
Date: 7 JUL 2020 20:59:31

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:31:34

Highest Band Edge / Full RB

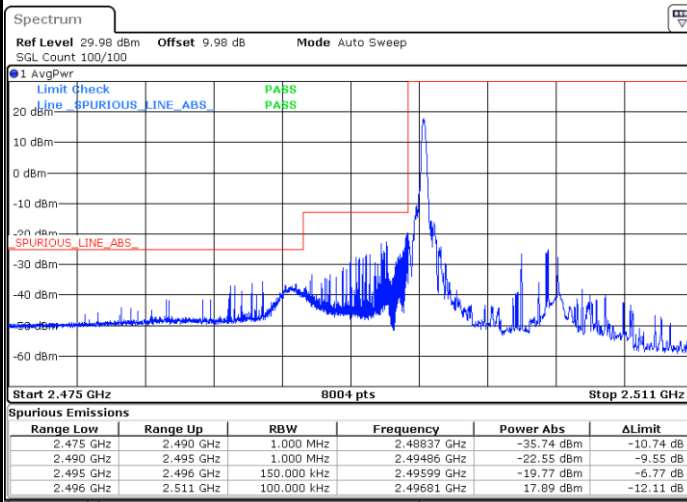


Date: 7 JUL 2020 21:01:47



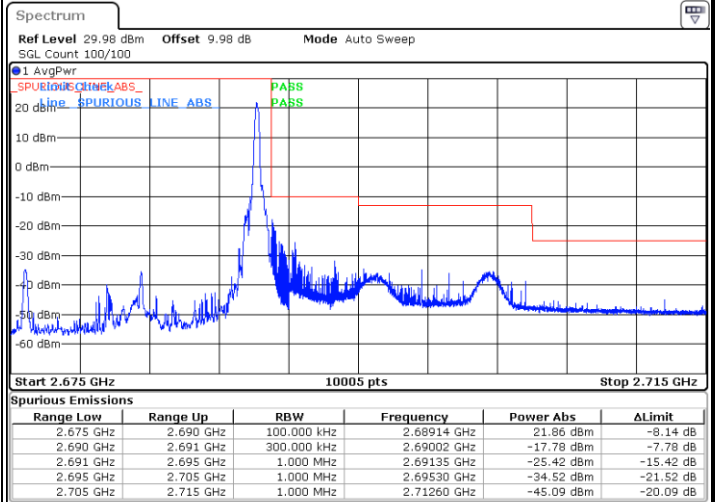
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



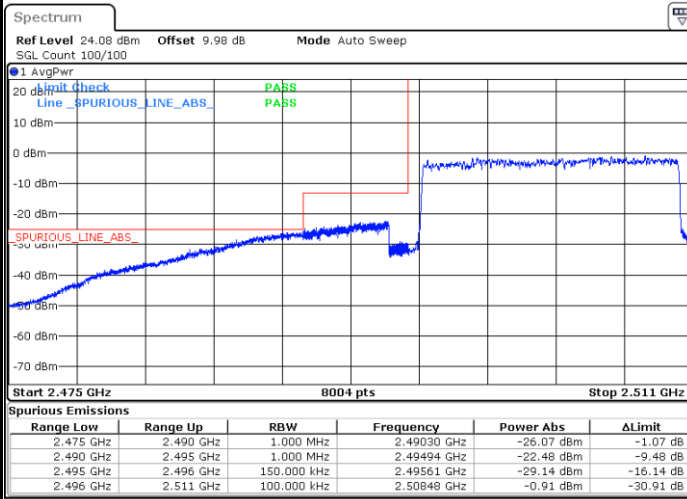
Date: 7 JUL 2020 20:56:07

Highest Band Edge / 1 RB



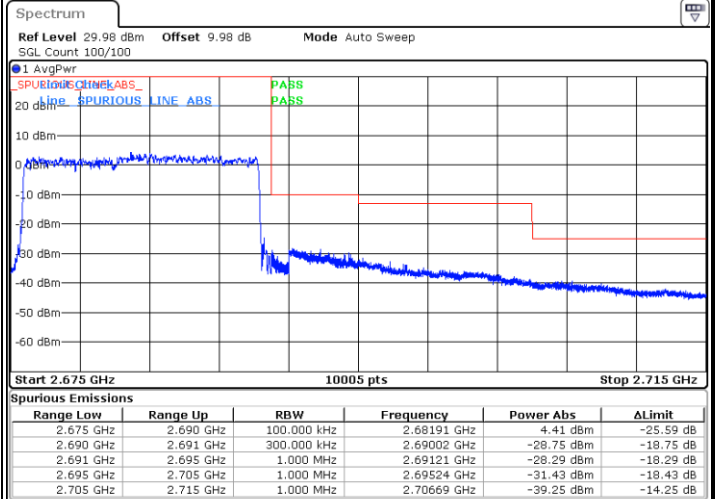
Date: 7 JUL 2020 21:00:39

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:17:37

Highest Band Edge / Full RB

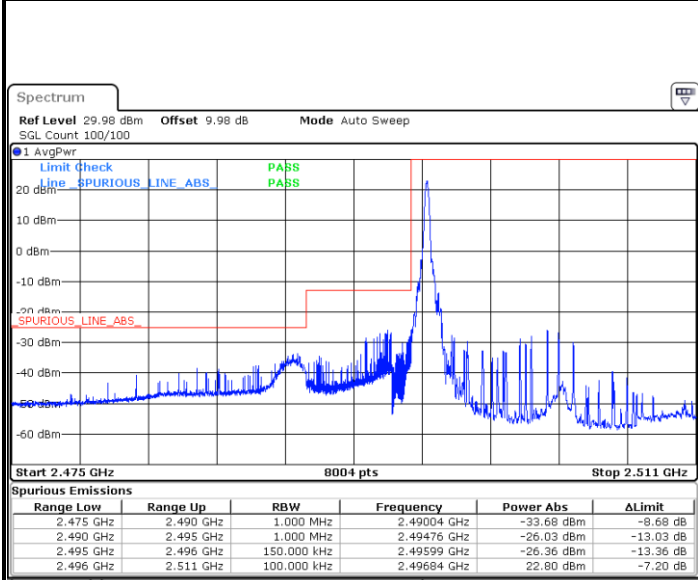


Date: 7 JUL 2020 21:02:55



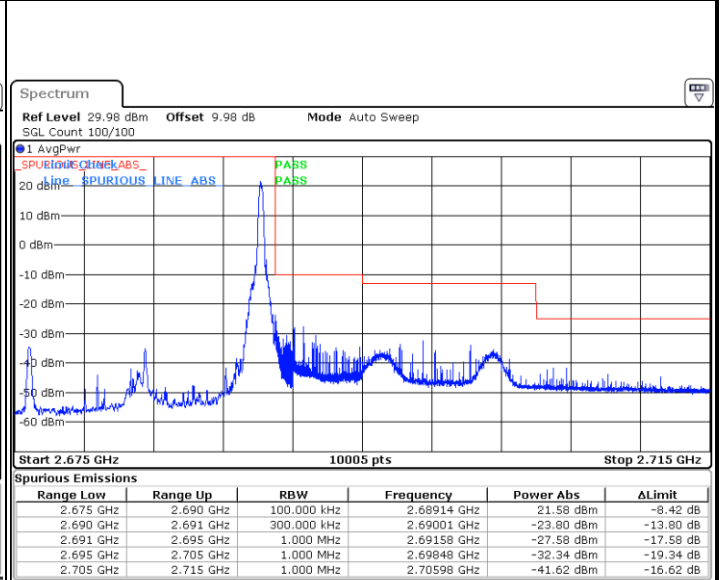
**LTE Band 41 / 15MHz / 64QAM**

**Lowest Band Edge / 1 RB**



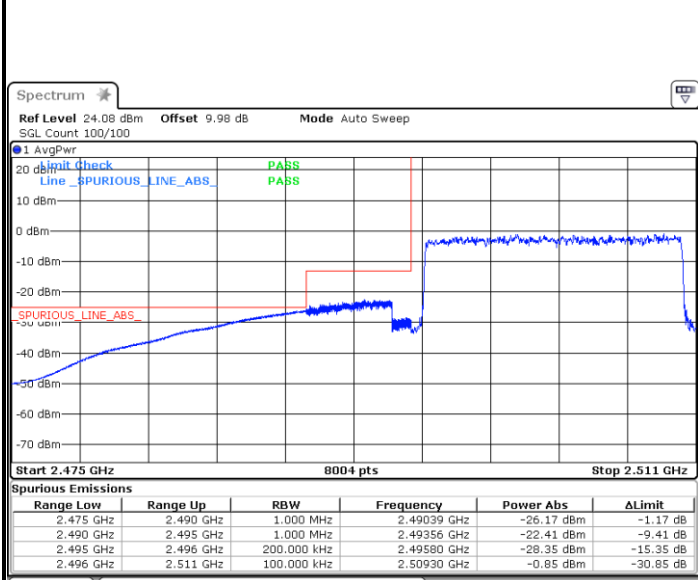
Date: 7 JUL 2020 21:22:11

**Highest Band Edge / 1 RB**



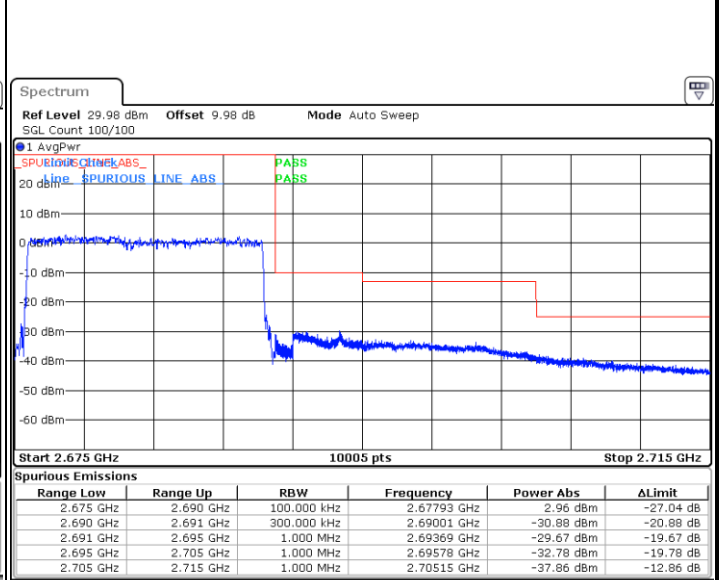
Date: 7 JUL 2020 21:25:35

**Lowest Band Edge / Full RB**



Date: 20 JUL 2020 23:17:09

**Highest Band Edge / Full RB**

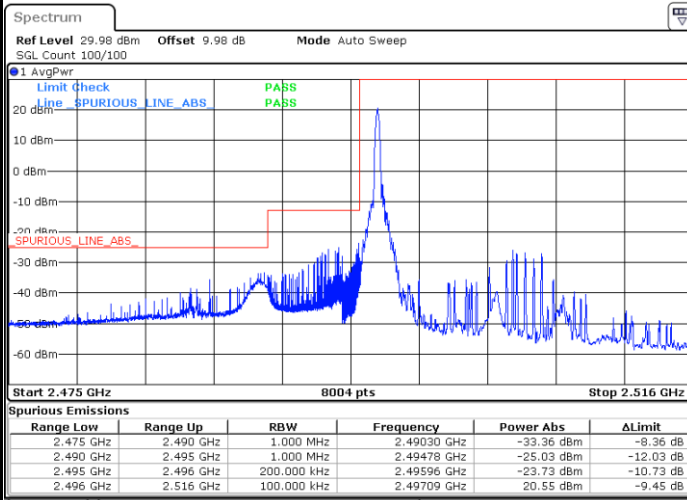


Date: 7 JUL 2020 21:24:27



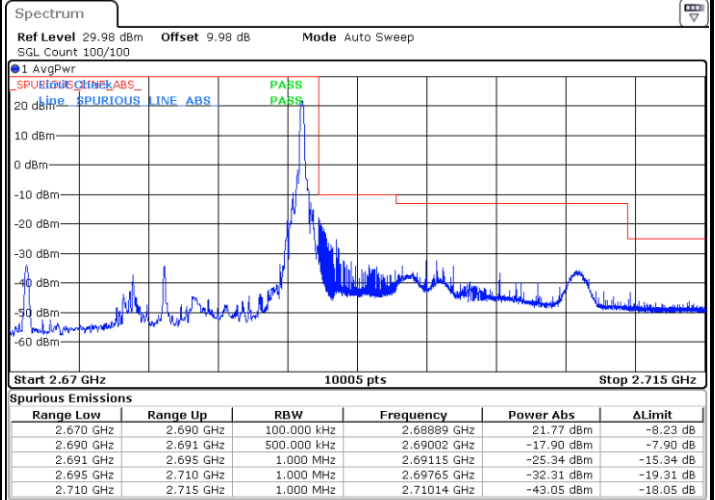
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



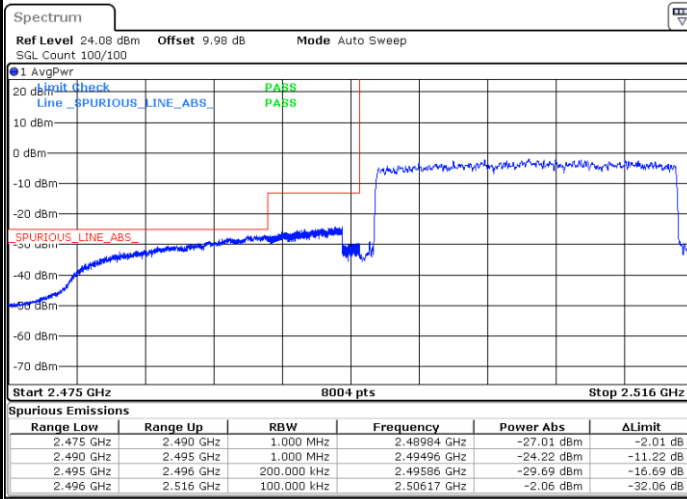
Date: 7 JUL 2020 21:04:03

Highest Band Edge / 1 RB



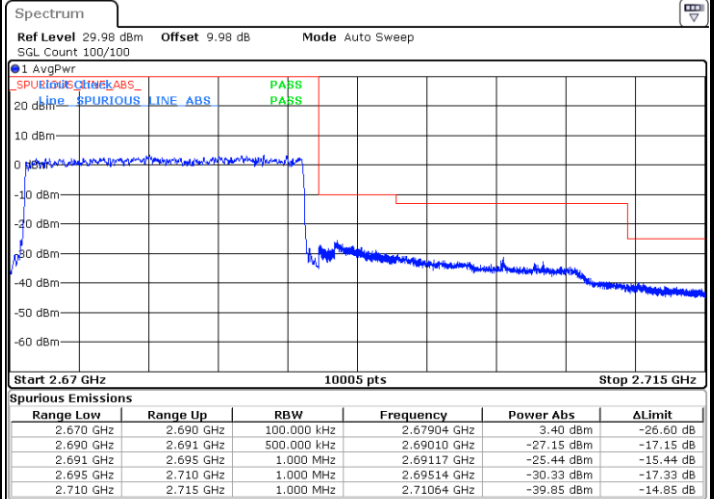
Date: 7 JUL 2020 21:08:35

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:30:53

Highest Band Edge / Full RB



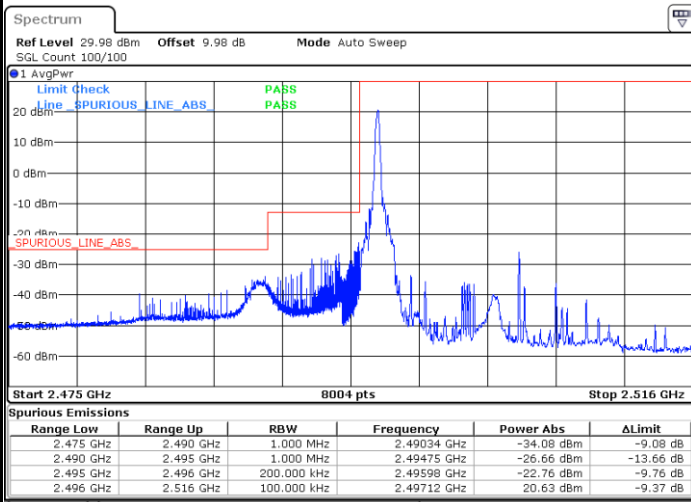
Date: 7 JUL 2020 21:11:59





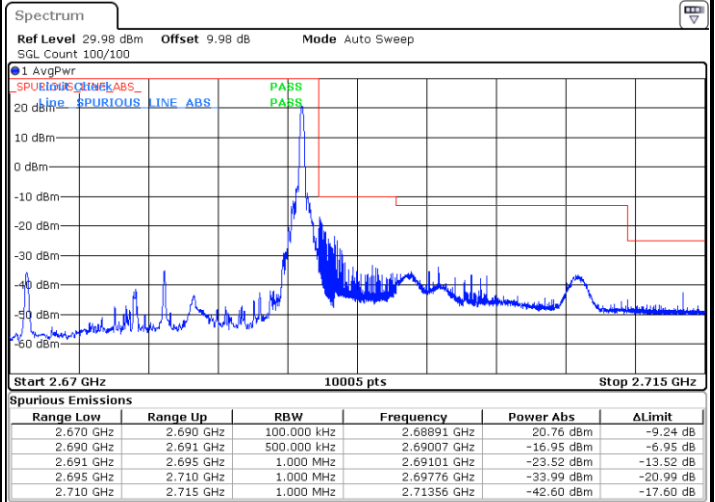
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



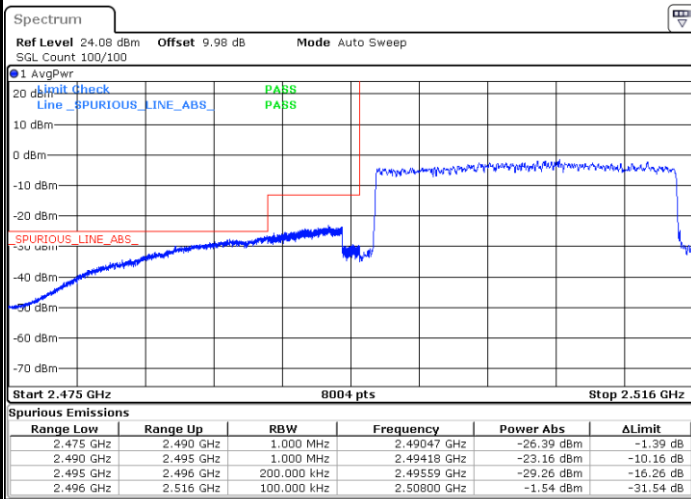
Date: 7 JUL 2020 21:05:11

Highest Band Edge / 1 RB



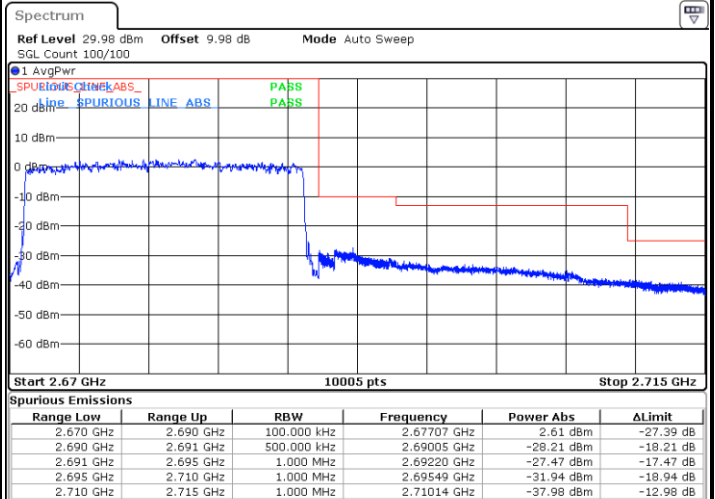
Date: 7 JUL 2020 21:09:43

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:19:03

Highest Band Edge / Full RB



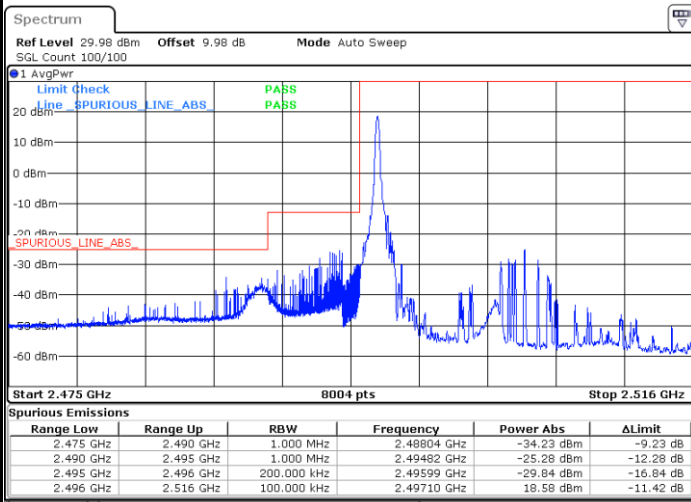
Date: 7 JUL 2020 21:10:51





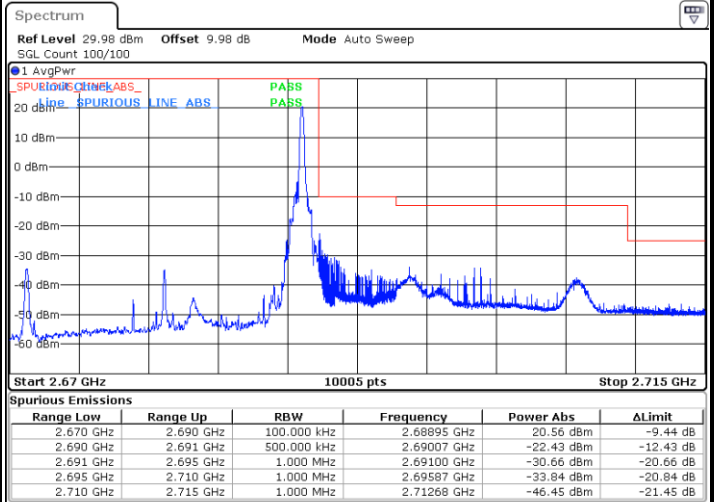
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



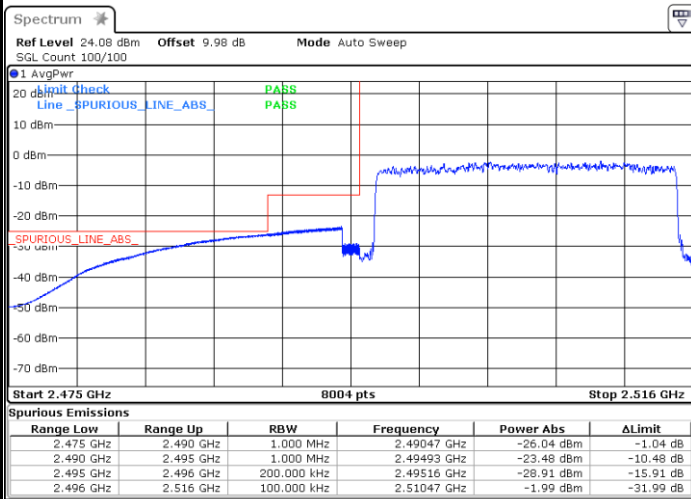
Date: 7 JUL 2020 21:26:43

Highest Band Edge / 1 RB



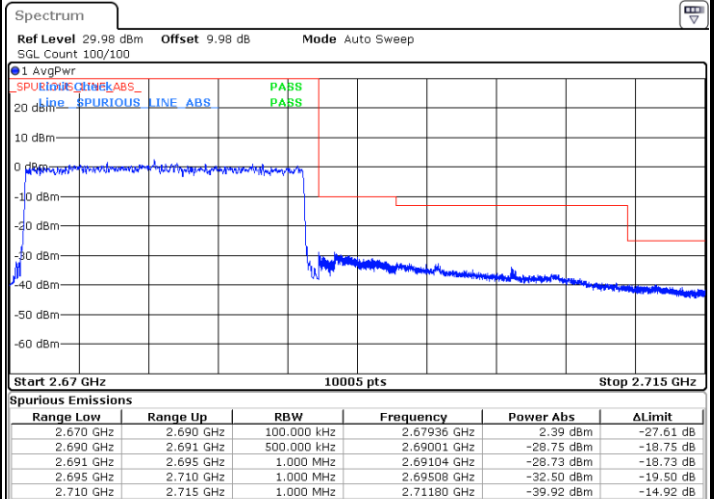
Date: 7 JUL 2020 21:30:07

Lowest Band Edge / Full RB



Date: 20 JUL 2020 23:30:14

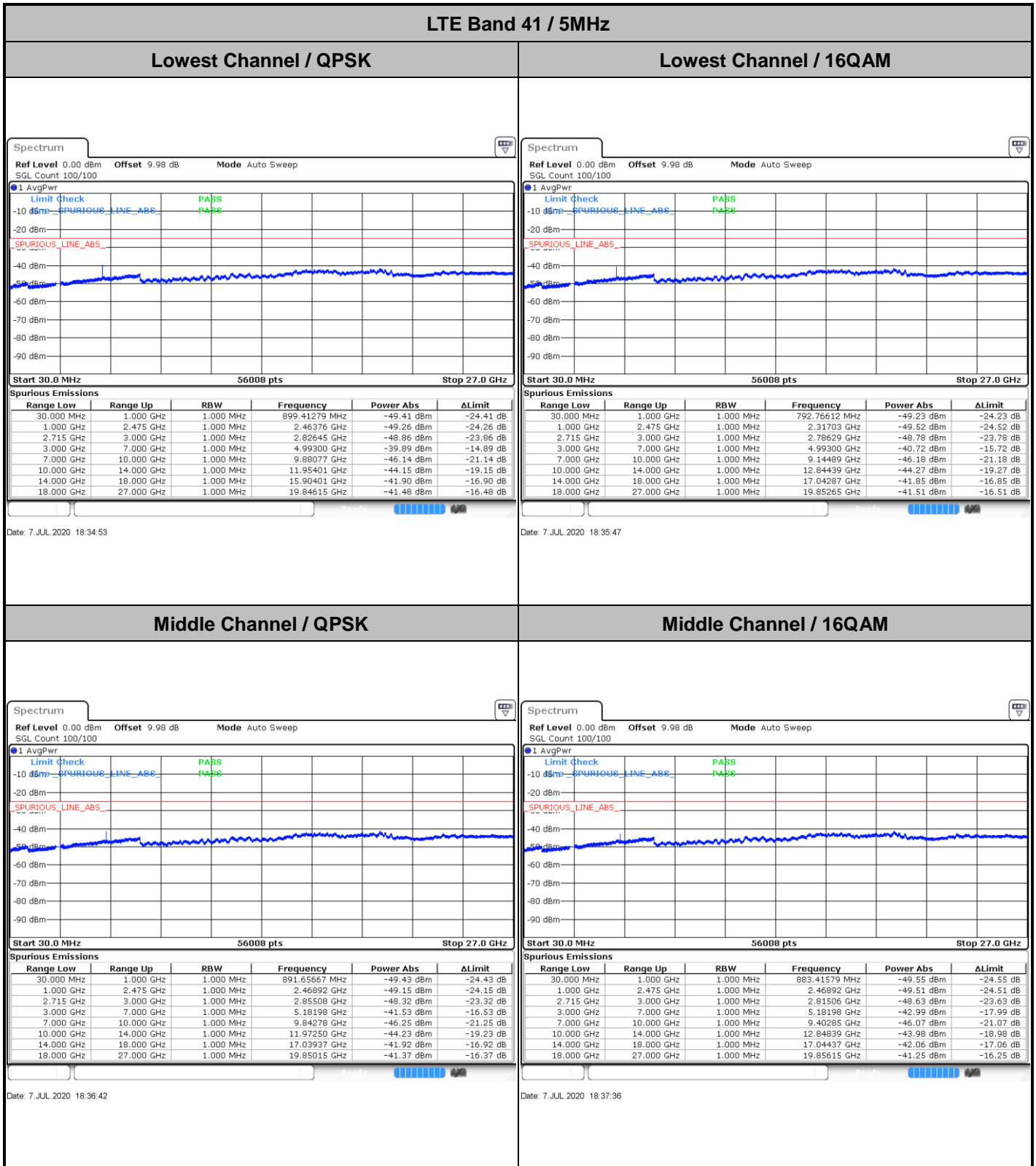
Highest Band Edge / Full RB



Date: 7 JUL 2020 21:28:59



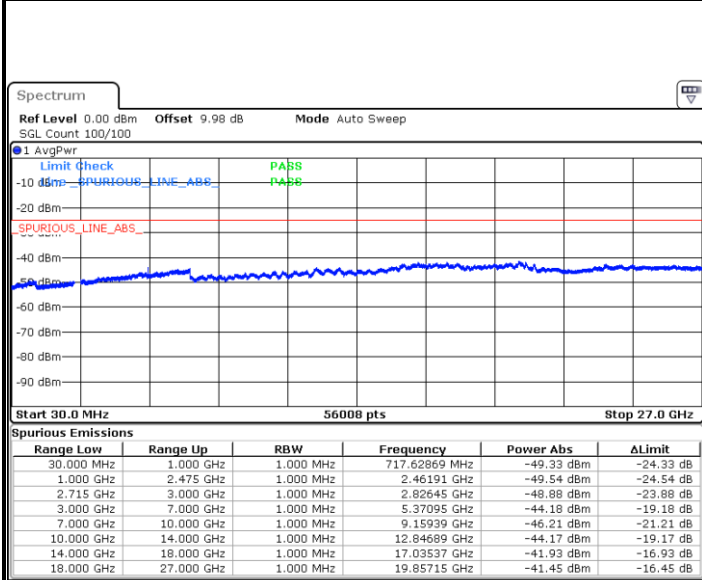
# Conducted Spurious Emission





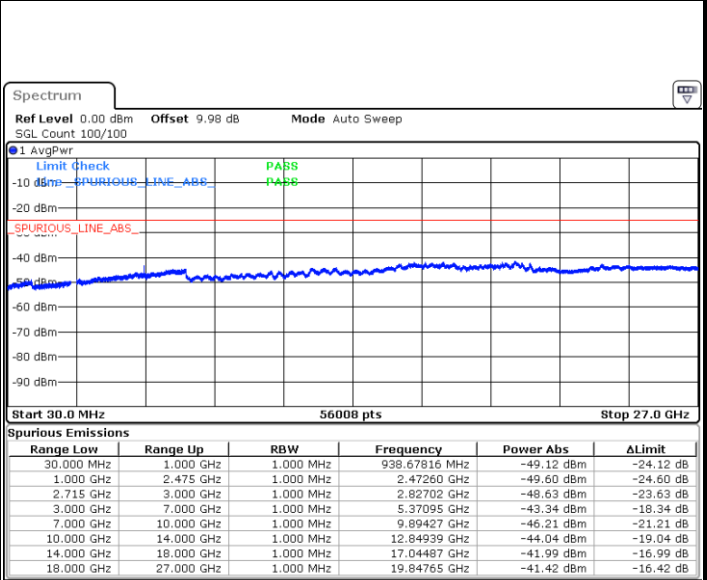
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 7 JUL 2020 18:38:31

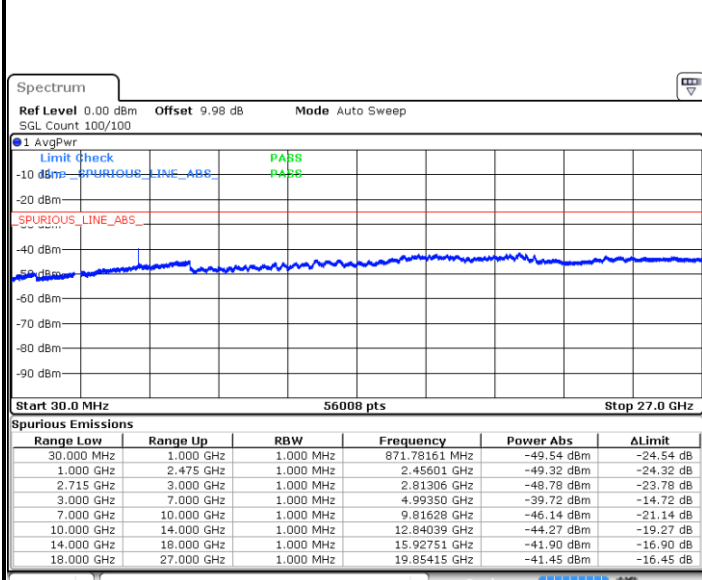
Highest Channel / 16QAM



Date: 7 JUL 2020 18:39:25

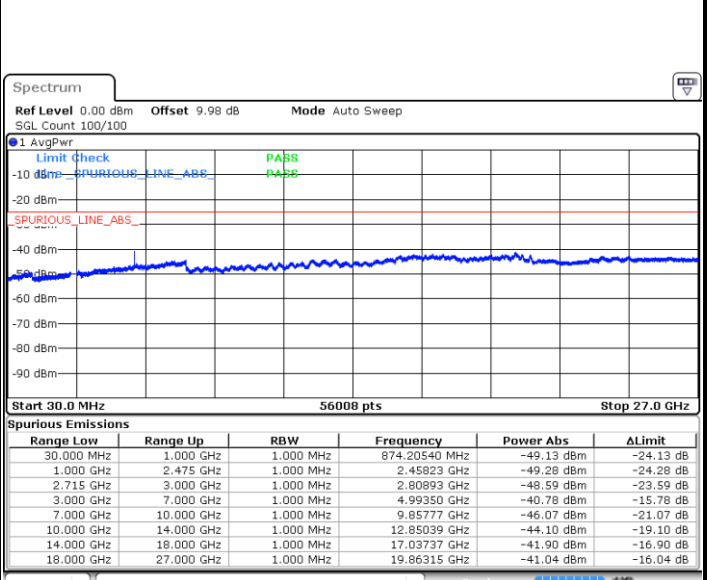
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 7 JUL 2020 18:40:20

Lowest Channel / 16QAM



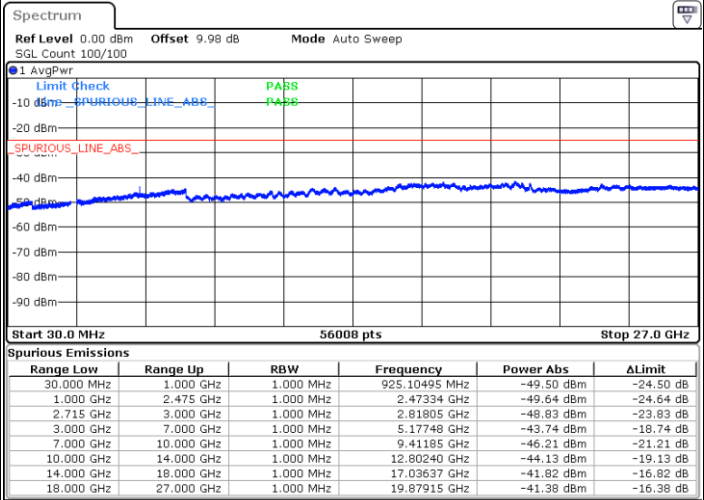
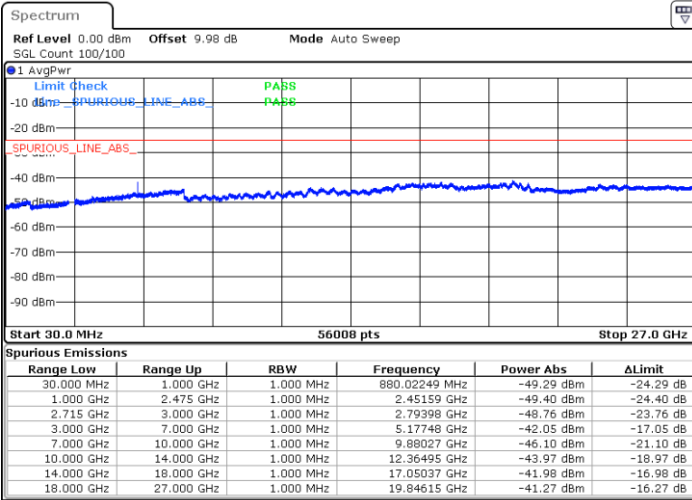
Date: 7 JUL 2020 18:41:14



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

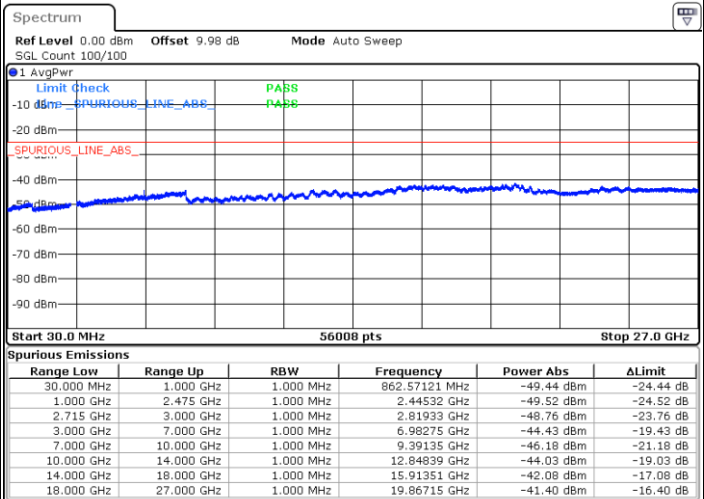
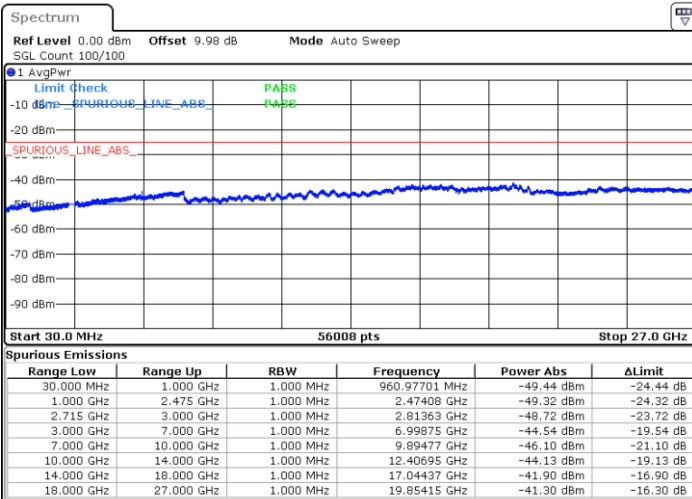


Date: 7.JUL.2020 18:42:09

Date: 7.JUL.2020 18:43:03

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7.JUL.2020 18:43:58

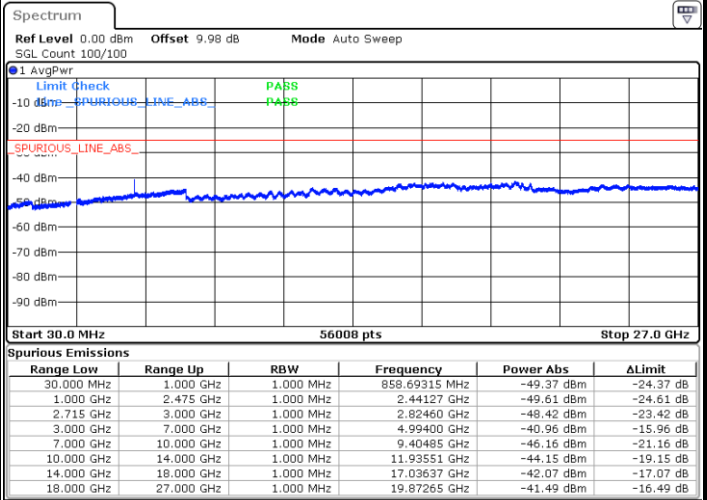
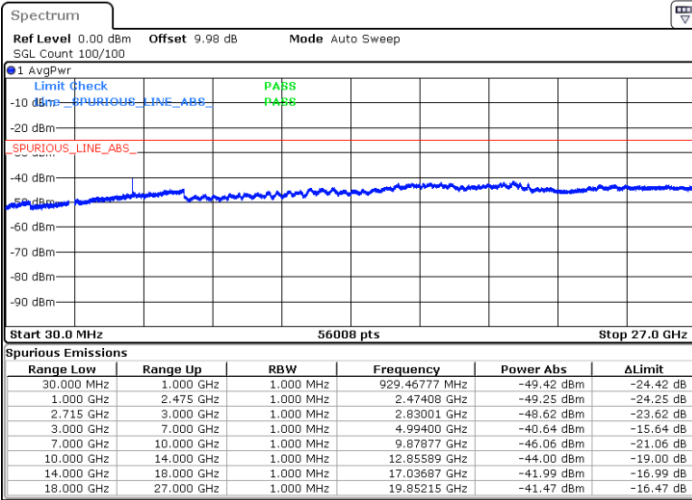
Date: 7.JUL.2020 18:44:52



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

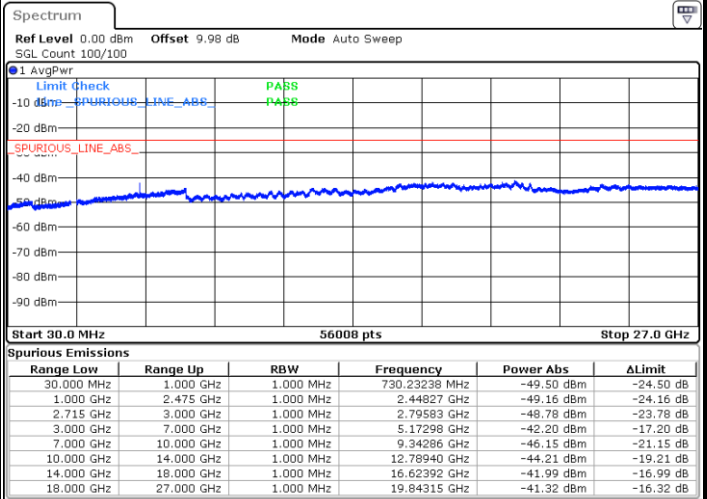
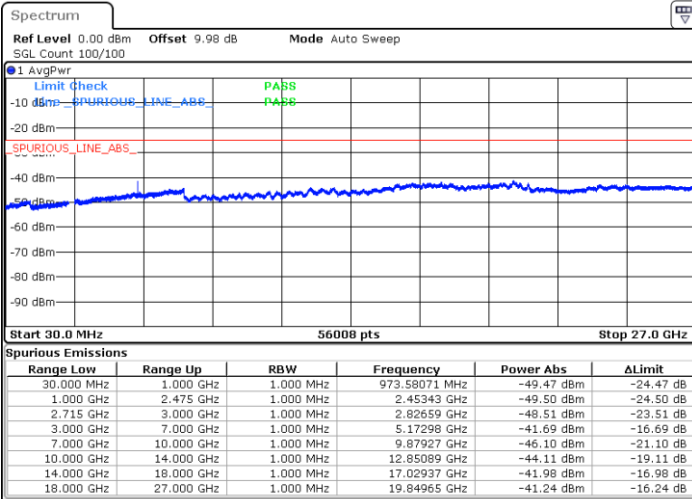


Date: 7.JUL.2020 18:45:47

Date: 7.JUL.2020 18:46:41

Middle Channel / QPSK

Middle Channel / 16QAM



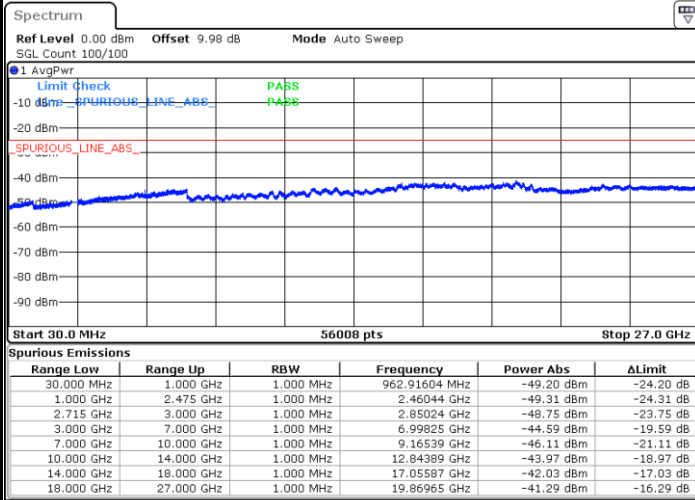
Date: 7.JUL.2020 18:47:36

Date: 7.JUL.2020 18:48:30



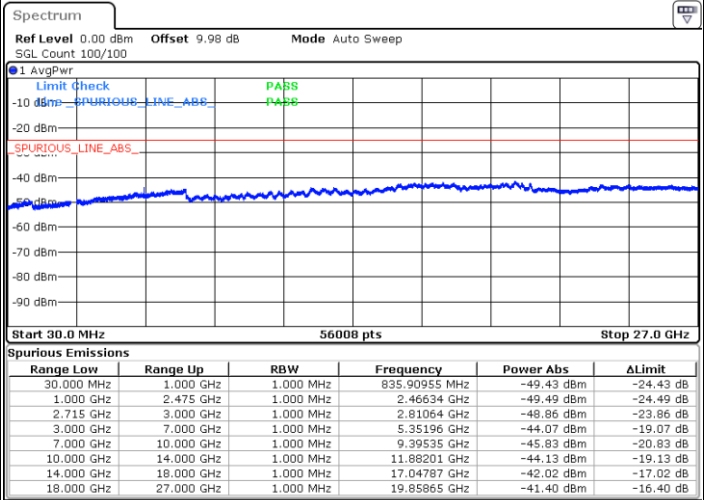
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 7 JUL 2020 18:49:25

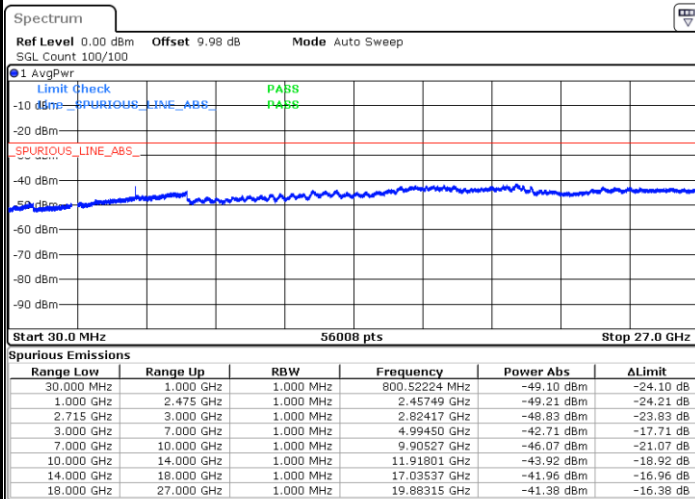
Highest Channel / 16QAM



Date: 7 JUL 2020 18:50:19

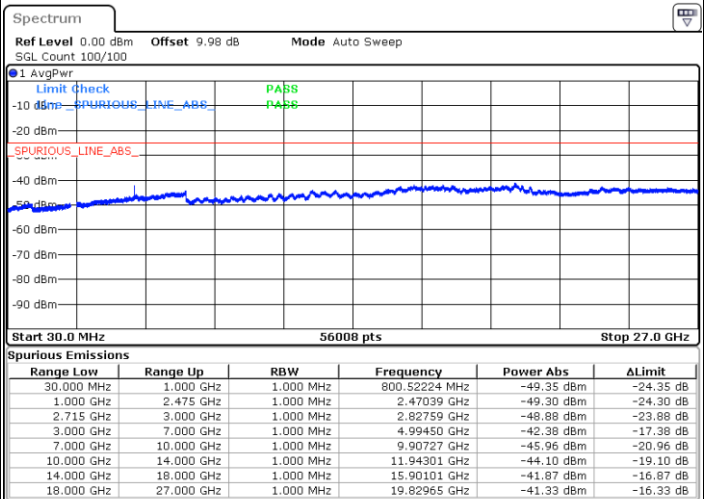
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 7 JUL 2020 18:51:14

Lowest Channel / 16QAM



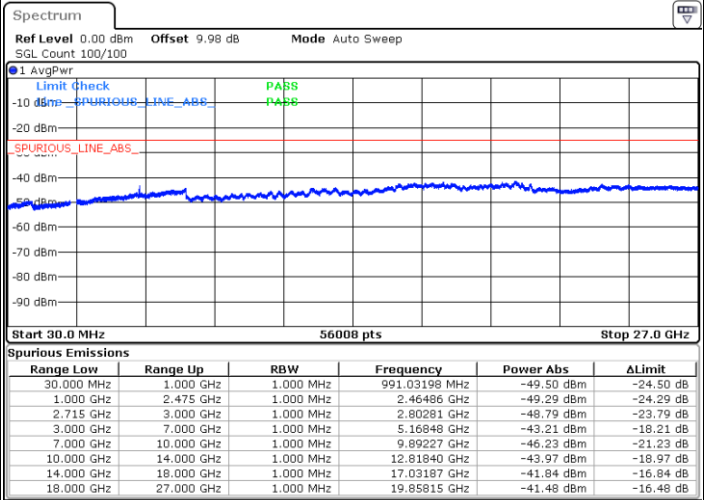
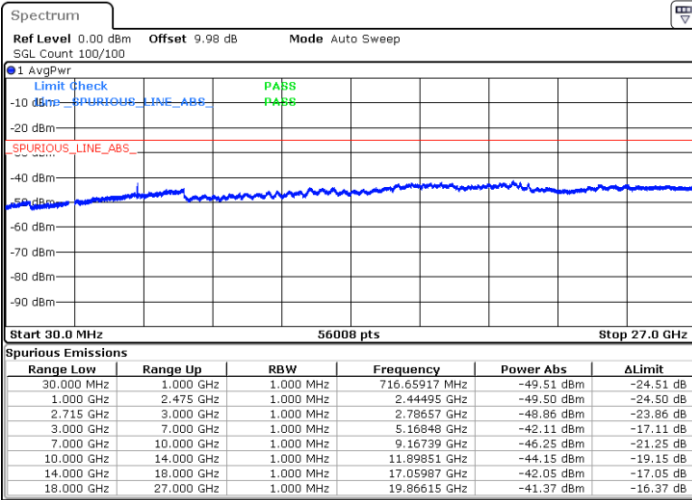
Date: 7 JUL 2020 18:52:08



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

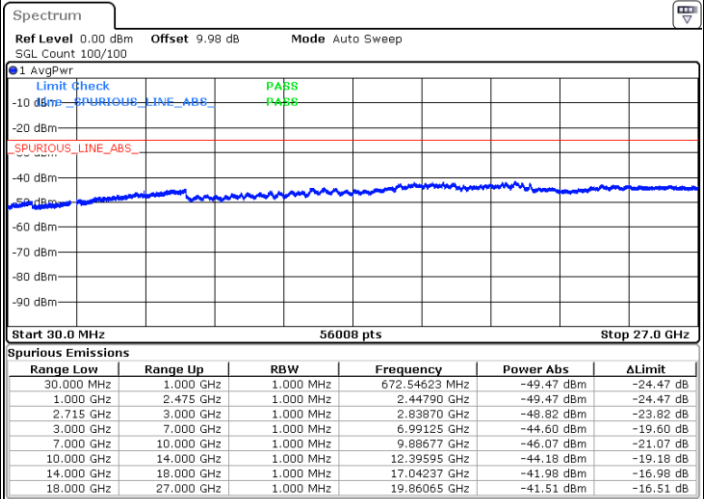
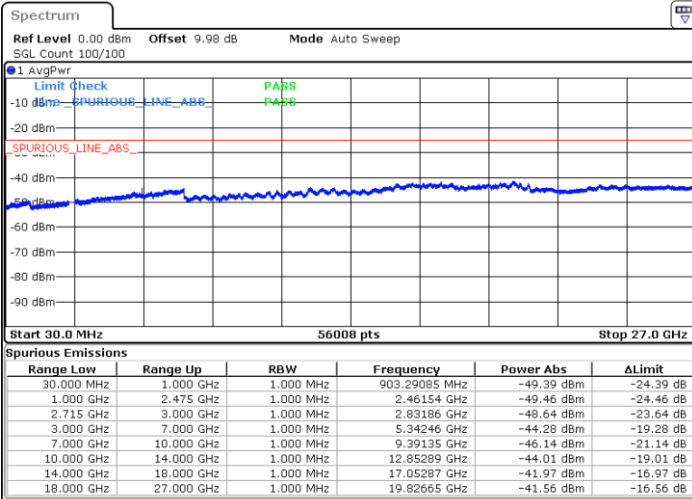


Date: 7.JUL.2020 18:53:02

Date: 7.JUL.2020 18:53:57

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 7.JUL.2020 18:54:51

Date: 7.JUL.2020 18:55:46

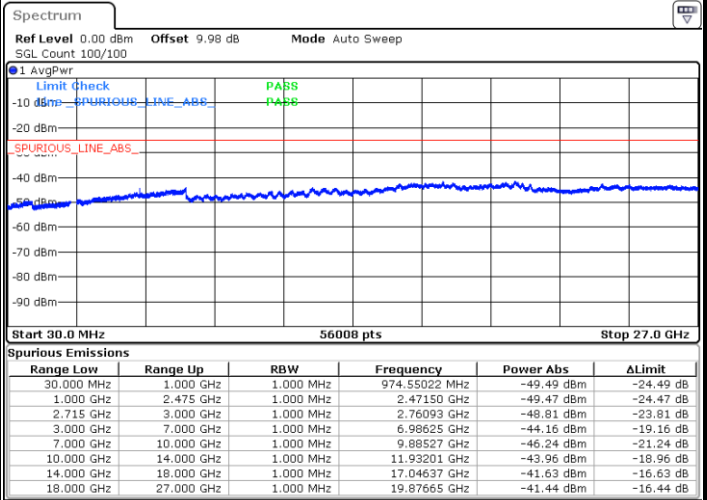
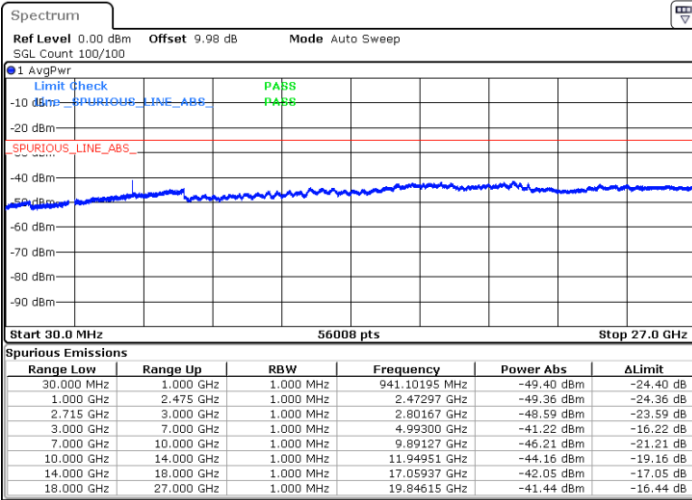




LTE Band 41 / 5MHz

Lowest Channel / 64QAM

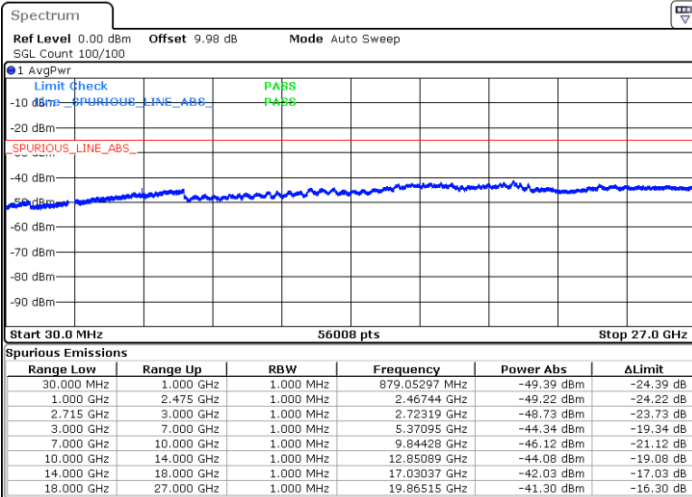
Middle Channel / 64QAM



Date: 7 JUL 2020 18:56:40

Date: 7 JUL 2020 18:57:35

Highest Channel / 64QAM



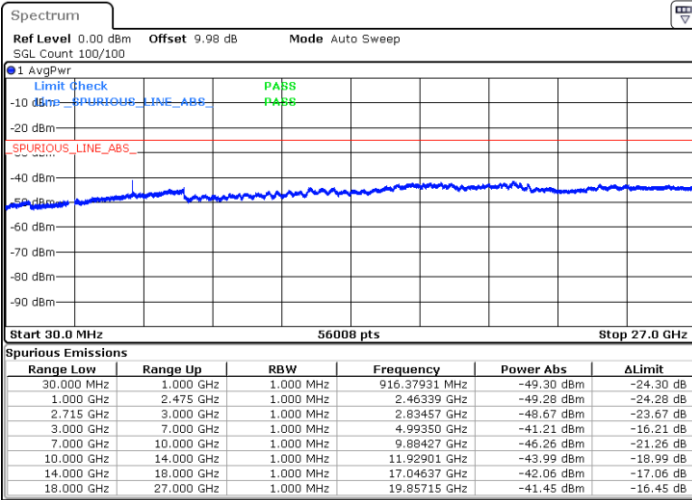
Date: 7 JUL 2020 18:58:29



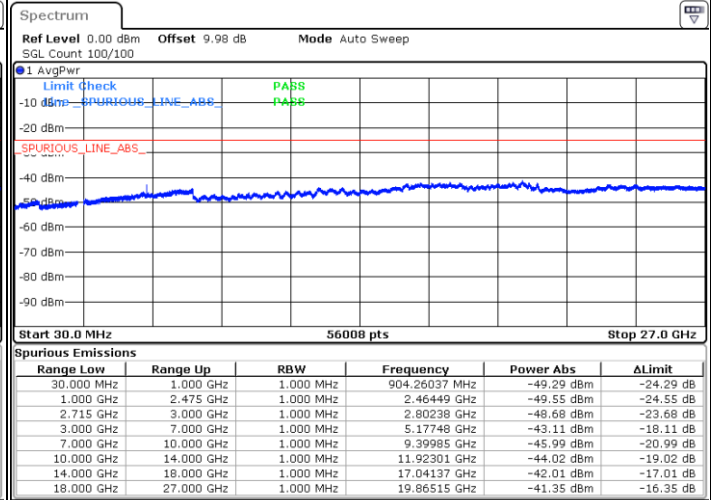
LTE Band 41 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



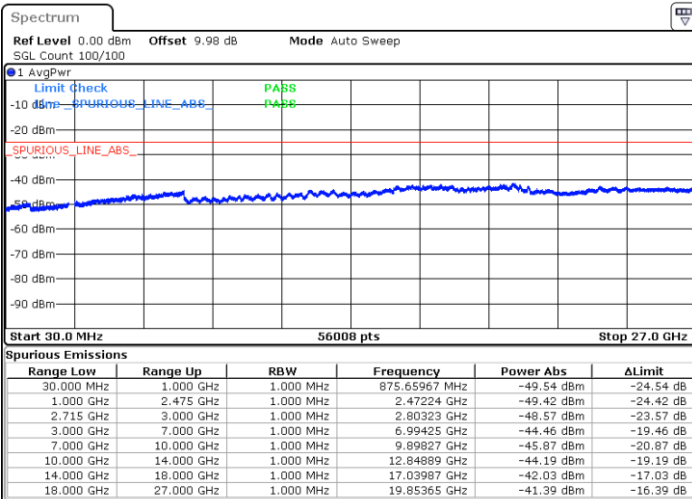
Date: 7 JUL 2020 18:59:24



Date: 7 JUL 2020 19:00:18

Highest Channel / 64QAM

-



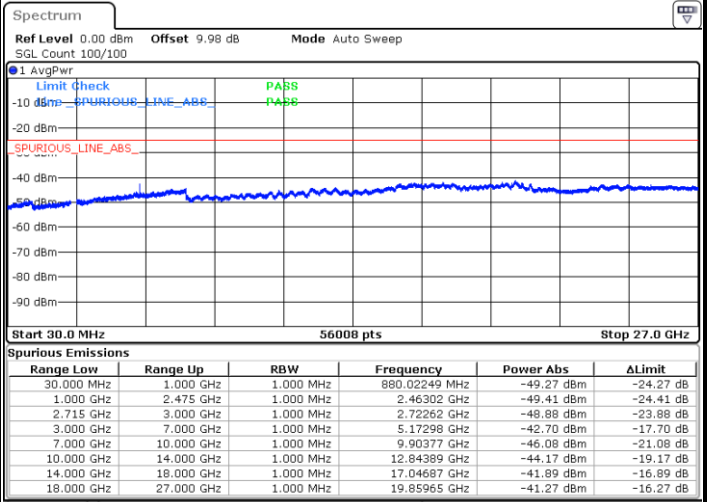
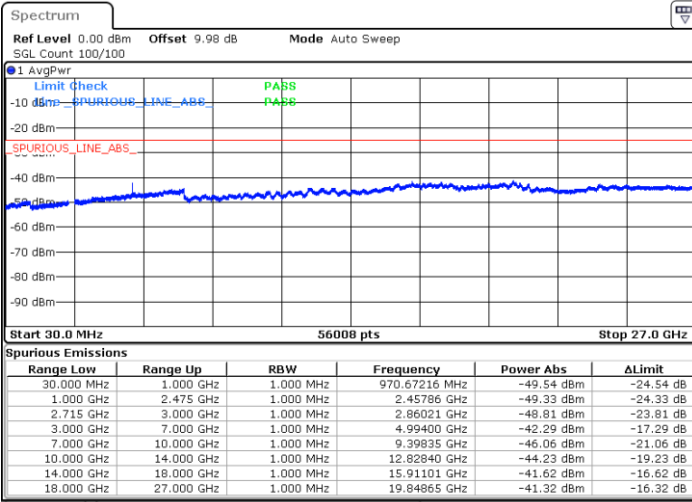
Date: 7 JUL 2020 19:01:13



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

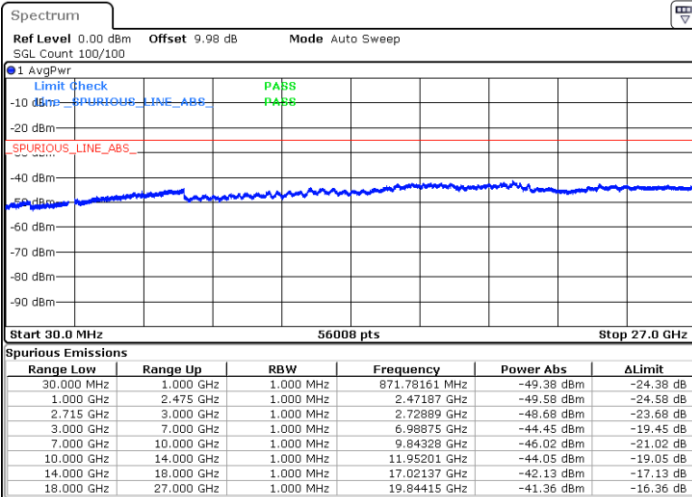


Date: 7.JUL.2020 19:02:07

Date: 7.JUL.2020 19:03:02

Highest Channel / 64QAM

-



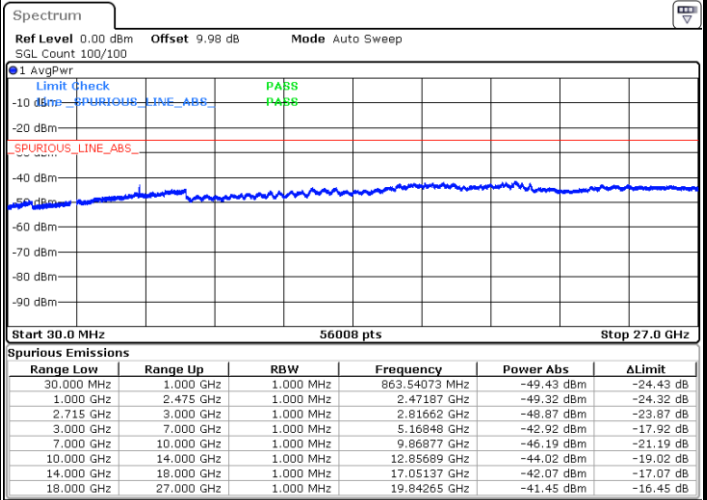
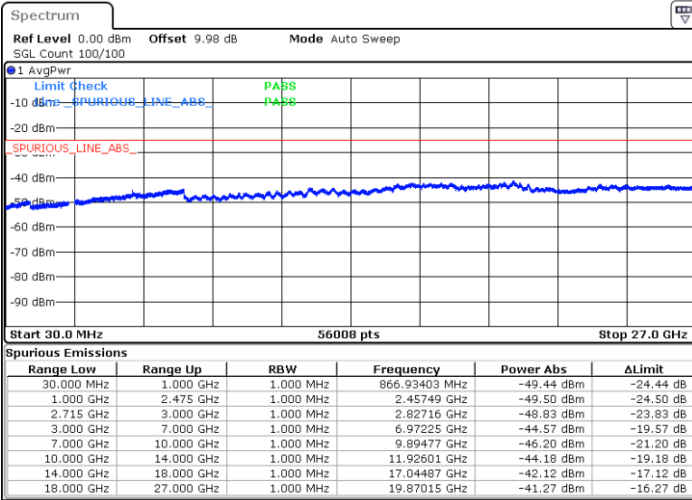
Date: 7.JUL.2020 19:03:56



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

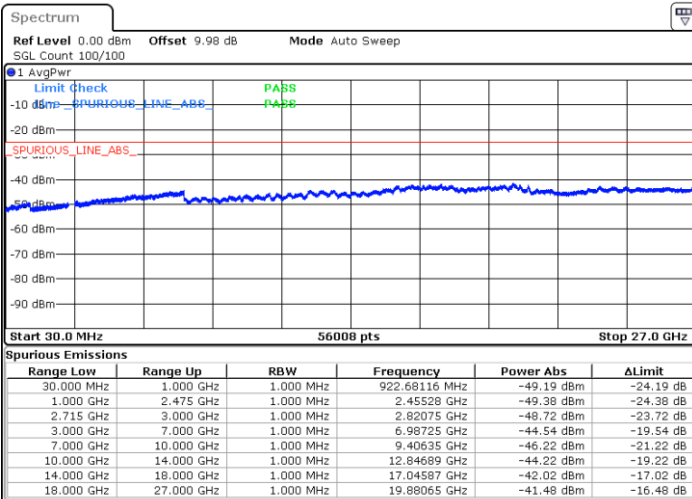


Date: 7.JUL.2020 19:04:51

Date: 7.JUL.2020 19:05:45

Highest Channel / 64QAM

-



Date: 7.JUL.2020 19:06:40



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note:

9. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.2 V.

10. Note: The frequency fundamental emissions stay within the authorized frequency block.



### Radiated Spurious Emission

LTE Band 2 / 20MHz / 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	3741	-56.45	-13	-43.45	-68.71	2.641	14.90	H
	5613	-53.33	-13	-40.33	-65.19	2.94	14.80	H
	7488	-48.36	-13	-35.36	-58.13	3.39	13.16	H
	3741	-56.91	-13	-43.91	-69.17	2.64	14.90	V
	5613	-53.66	-13	-40.66	-65.52	2.94	14.80	V
	7488	-47.91	-13	-34.91	-57.68	3.39	13.16	V

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

LTE Band 4 / 20MHz / 64QAM								
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	3447	-58.92	-13	-45.92	-69.66	2.604	13.34	H
	5170.77	-54.07	-13	-41.07	-64.58	3.011	13.52	H
	6894.36	-50.64	-13	-37.64	-60.84	3.271	13.47	H
	3447	-59.66	-13	-46.66	-70.40	2.604	13.34	V
	5170.77	-54.17	-13	-41.17	-64.68	3.011	13.52	V
	6894.36	-50.40	-13	-37.40	-60.60	3.271	13.47	V

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

LTE Band 5 / 10MHz / 64QAM								
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	-65.05	-13	-52.05	-72.02	1.58	10.70	H
	2496	-44.26	-13	-31.26	-52.51	2.102	12.50	H
	3324	-63.17	-13	-50.17	-72.06	2.856	13.90	H
	1664	-64.90	-13	-51.90	-71.87	1.58	10.70	V
	2496	-45.00	-13	-32.00	-53.25	2.10	12.50	V
	3324	-62.50	-13	-49.50	-71.39	2.86	13.90	V

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



LTE Band 7 / 20MHz / 16QAM								
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	5052	-57.85	-25	-32.85	-68.06	3.03	13.24	H
	7580	-50.97	-25	-25.97	-60.42	3.56	13.01	H
	10104	-58.24	-25	-33.24	-67.76	3.92	13.44	H
	5052	-61.62	-25	-36.62	-71.83	3.03	13.24	V
	7580	-46.36	-25	-21.36	-55.81	3.56	13.01	V
	10104	-58.03	-25	-33.03	-67.55	3.92	13.44	V

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

LTE Band 12 / 10MHz / 64QAM								
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	1406	-67.23	-13	-54.23	-74.20	1.58	10.70	H
	2110	-35.52	-13	-22.52	-43.77	2.102	12.50	H
	2812	-63.46	-13	-50.46	-72.35	2.856	13.90	H
	1406	-66.81	-13	-53.81	-73.78	1.58	10.70	V
	2110	-34.10	-13	-21.10	-42.35	2.10	12.50	V
	2812.36	-63.40	-13	-50.40	-72.29	2.86	13.90	V

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

LTE Band 41 / 20MHz / 16QAM								
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	5168	-61.38	-25	-36.38	-71.59	3.03	13.24	H
	7752	-52.16	-25	-27.16	-61.61	3.56	13.01	H
	10336.36	-58.19	-25	-33.19	-67.71	3.92	13.44	H
	5168	-63.15	-25	-38.15	-73.36	3.03	13.24	V
	7752	-51.64	-25	-26.64	-61.09	3.56	13.01	V
	10336.36	-57.93	-25	-32.93	-67.45	3.92	13.44	V

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