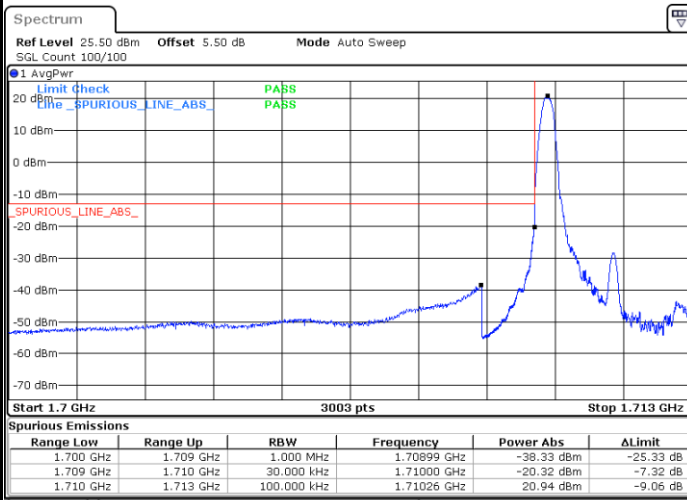




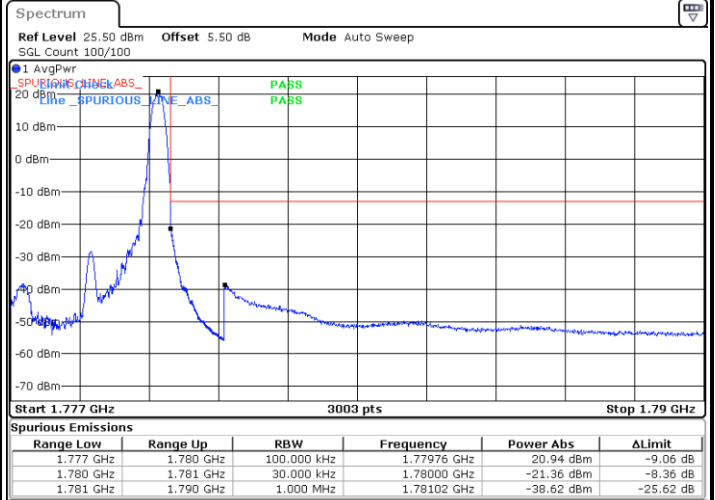
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



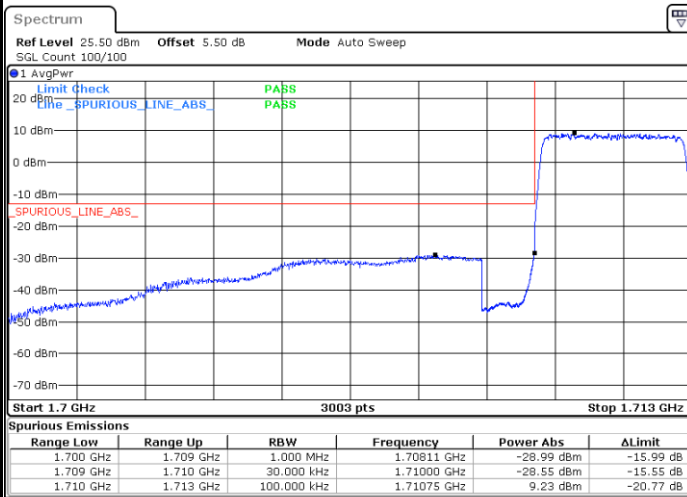
Date: 20.AUG.2021 10:12:30

Highest Band Edge / 1 RB



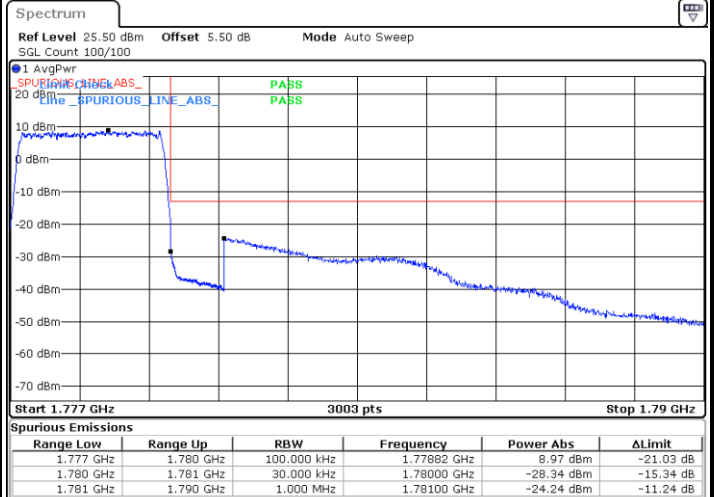
Date: 20.AUG.2021 10:19:07

Lowest Band Edge / Full RB



Date: 20.AUG.2021 10:16:42

Highest Band Edge / Full RB

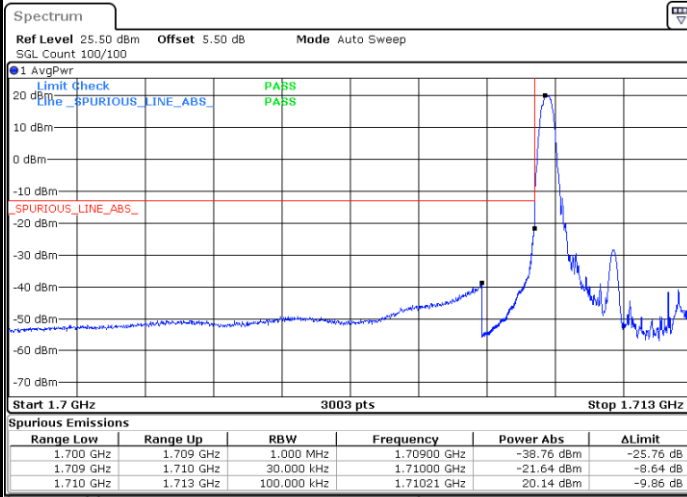


Date: 20.AUG.2021 10:23:29

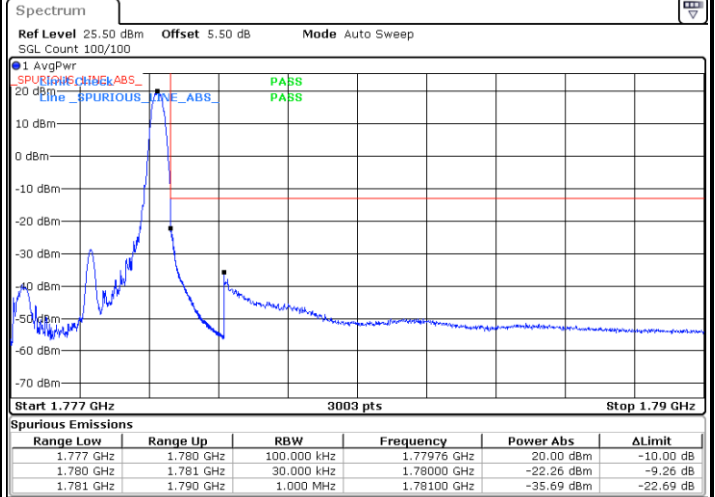


LTE Band 66 / 3MHz / 16QAM

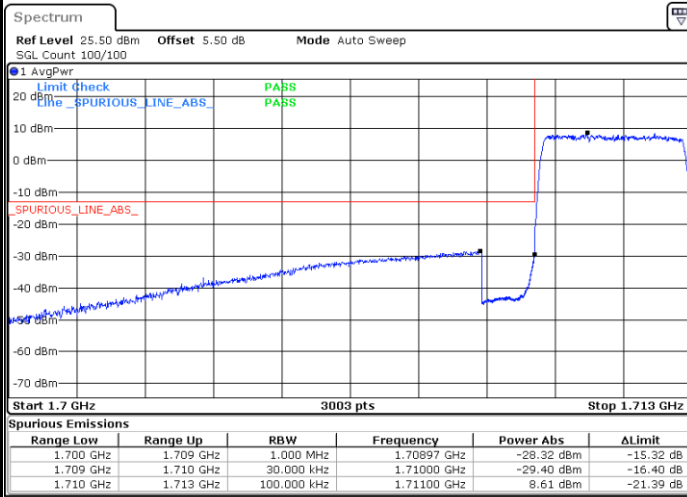
Lowest Band Edge / 1 RB



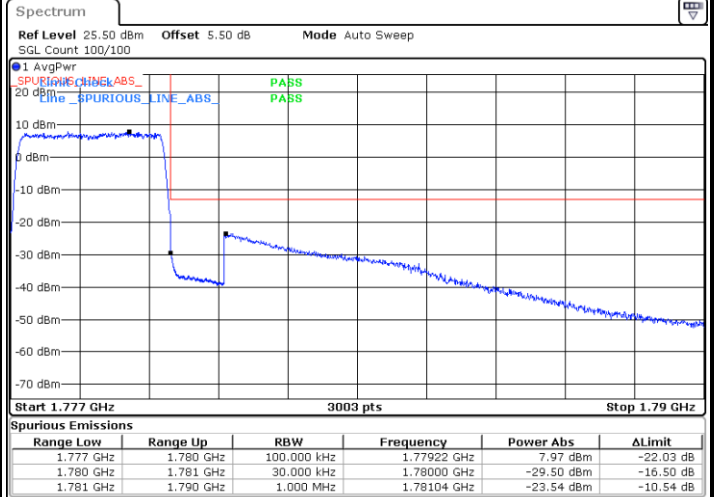
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



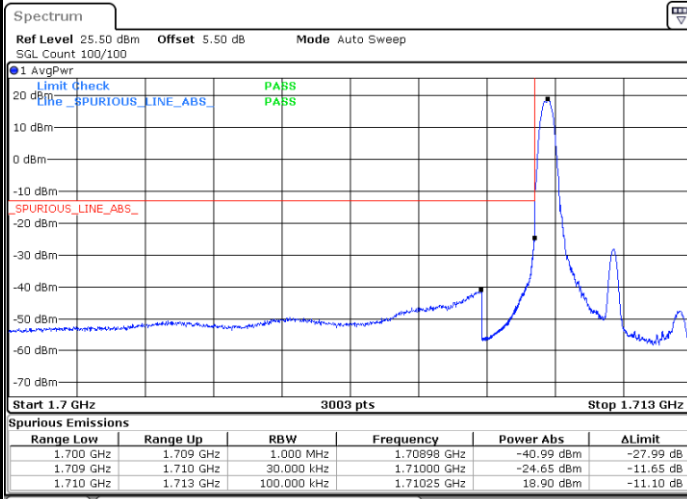
Highest Band Edge / Full RB





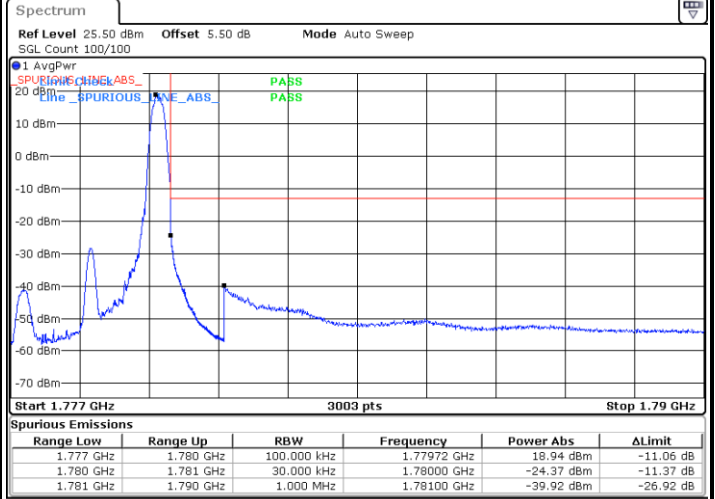
LTE Band 66 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



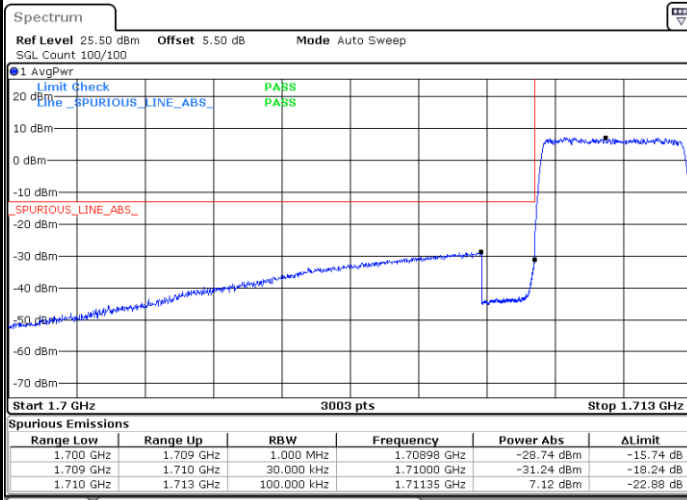
Date: 20.AUG.2021 10:14:10

Highest Band Edge / 1 RB



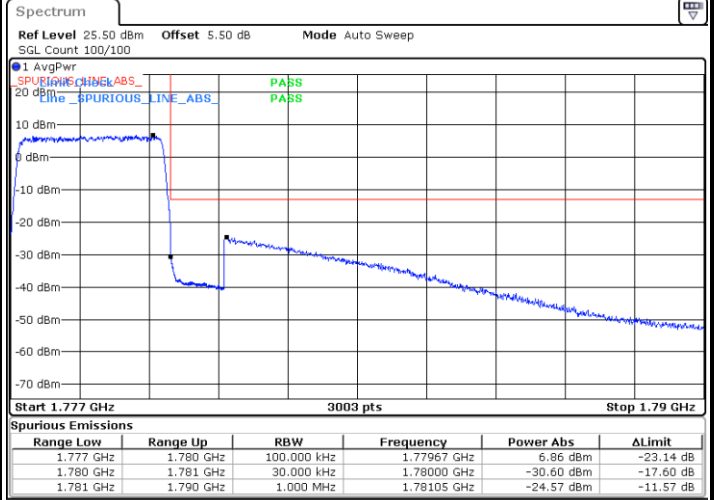
Date: 20.AUG.2021 10:20:49

Lowest Band Edge / Full RB



Date: 20.AUG.2021 10:15:04

Highest Band Edge / Full RB

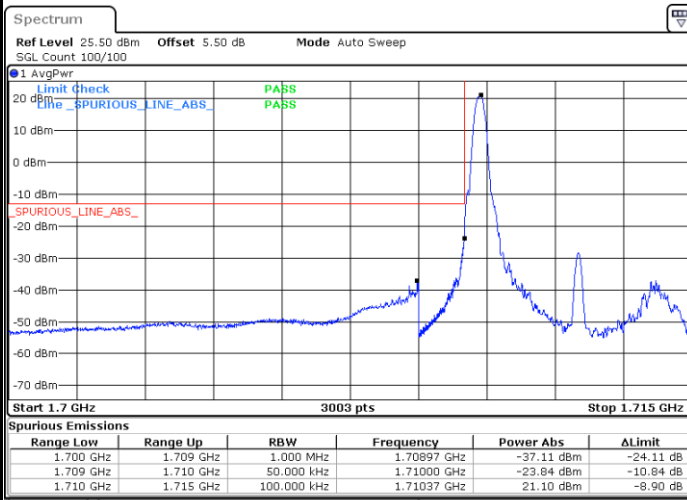


Date: 20.AUG.2021 10:21:46



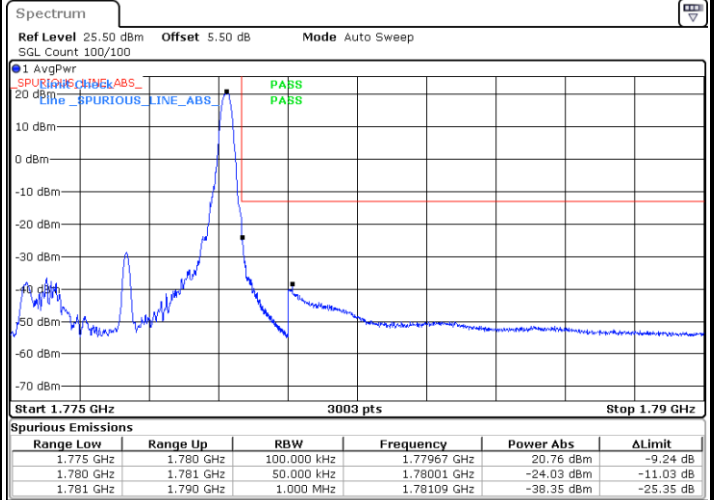
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



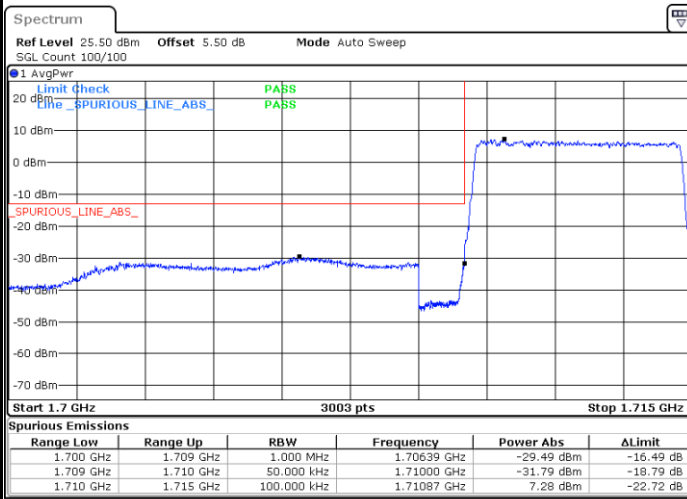
Date: 20.AUG.2021 09:53:23

Highest Band Edge / 1 RB



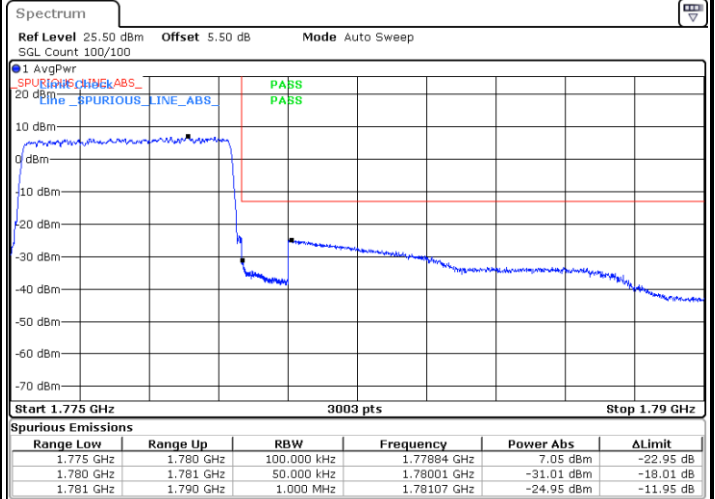
Date: 20.AUG.2021 09:58:59

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:56:31

Highest Band Edge / Full RB

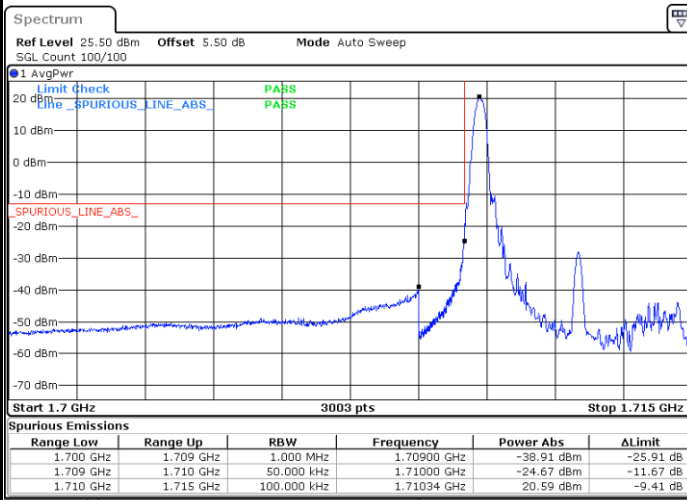


Date: 20.AUG.2021 10:04:14



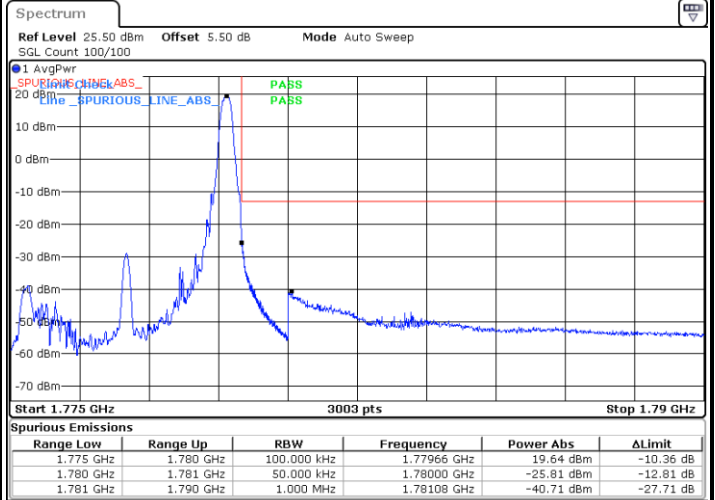
LTE Band 66 / 5MHz / 16QAM

Lowest Band Edge / 1RB



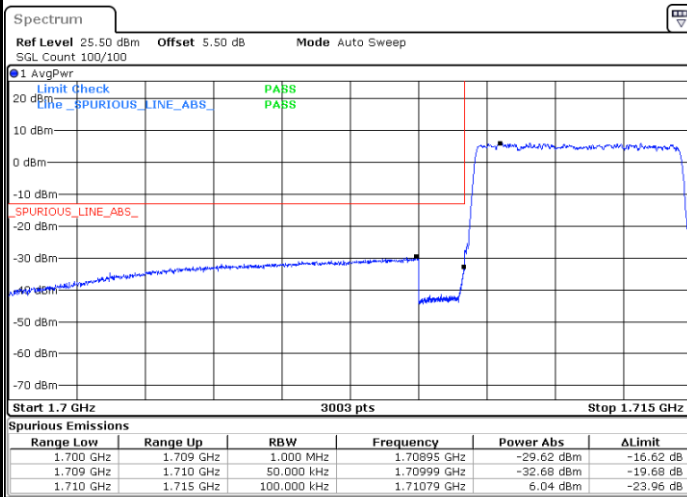
Date: 20.AUG.2021 09:53:47

Highest Band Edge / 1 RB



Date: 20.AUG.2021 09:59:48

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:55:56

Highest Band Edge / Full RB

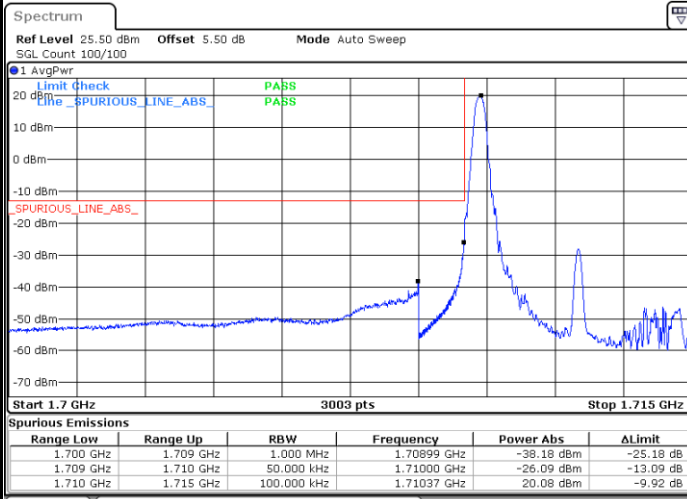


Date: 20.AUG.2021 10:02:35



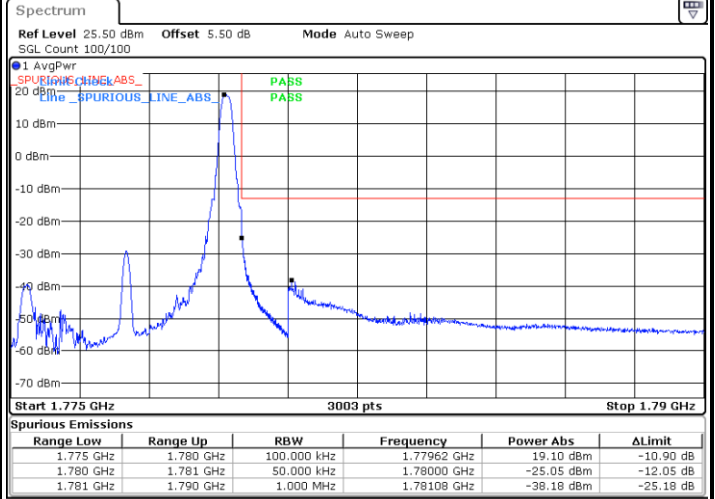
LTE Band 66 / 5MHz / 64QAM

Lowest Band Edge / 1RB



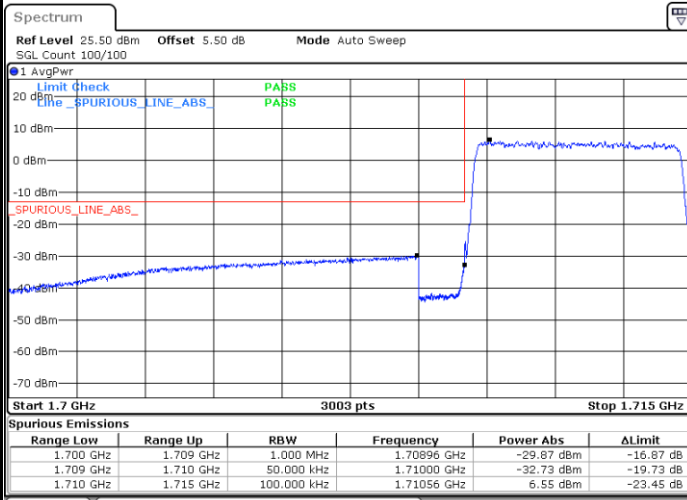
Date: 20.AUG.2021 09:54:26

Highest Band Edge / 1 RB



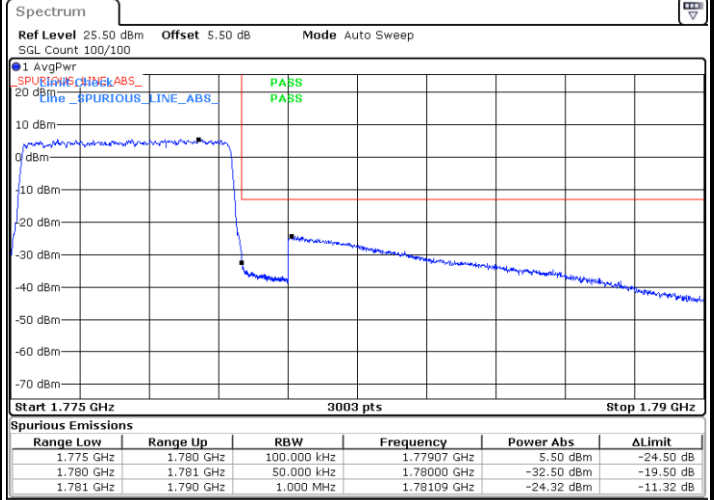
Date: 20.AUG.2021 10:00:16

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:55:16

Highest Band Edge / Full RB

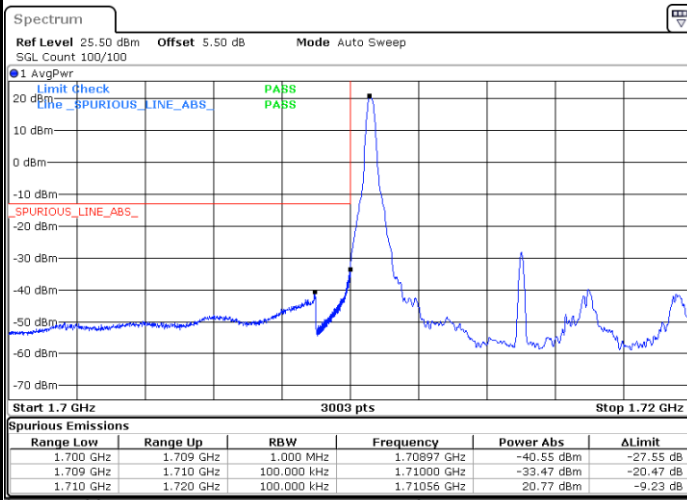


Date: 20.AUG.2021 10:00:55



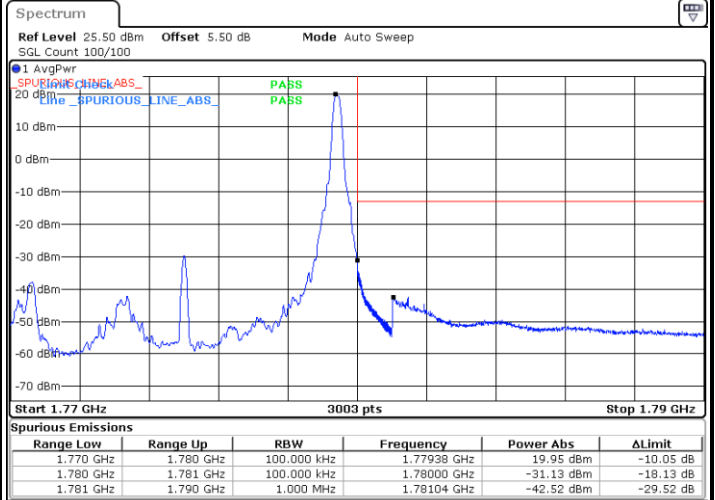
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



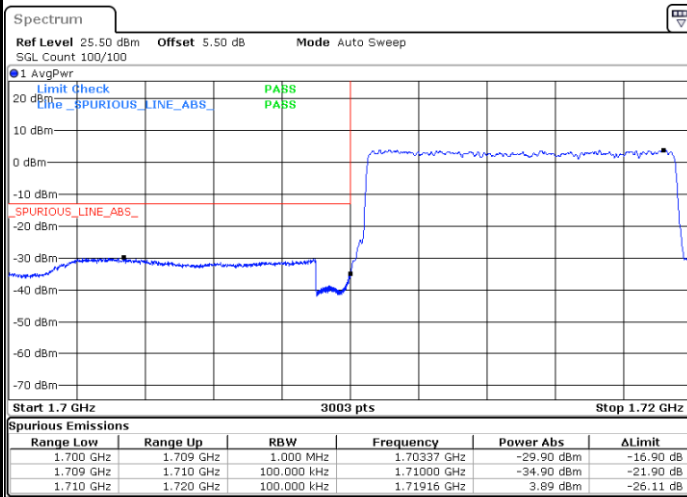
Date: 20.AUG.2021 09:38:15

Highest Band Edge / 1 RB



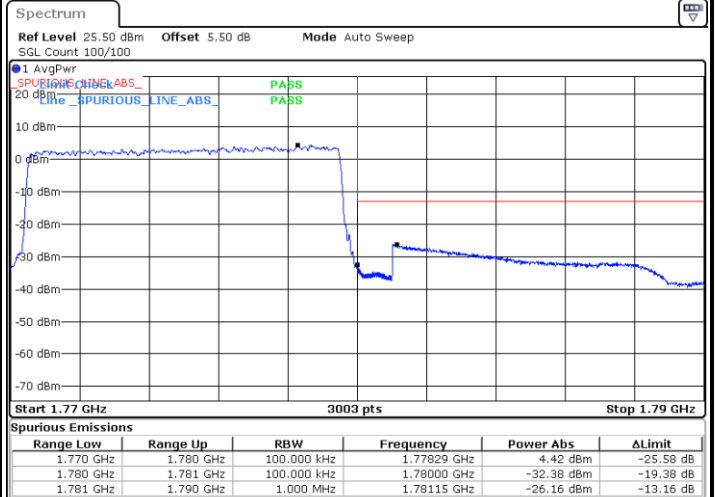
Date: 20.AUG.2021 09:47:10

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:40:11

Highest Band Edge / Full RB

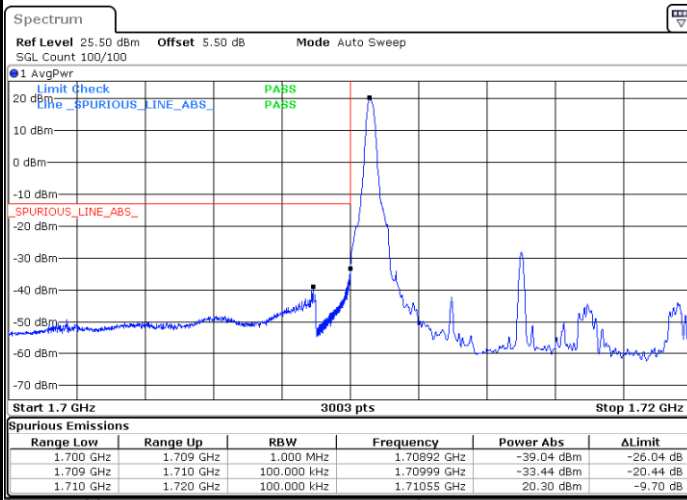


Date: 20.AUG.2021 09:42:56



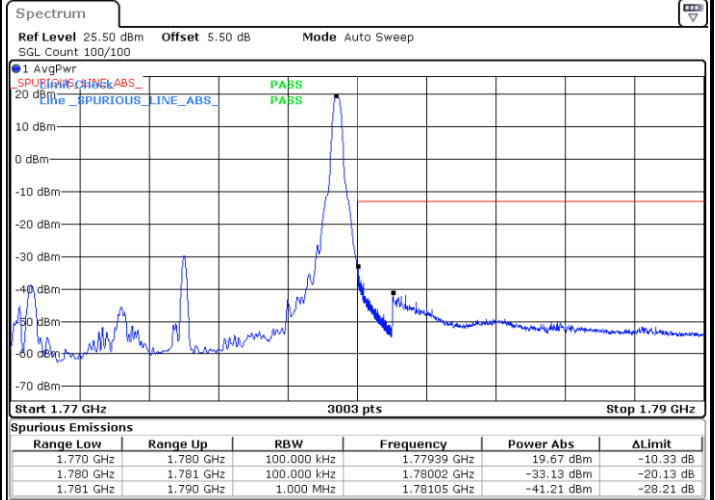
LTE Band 66 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



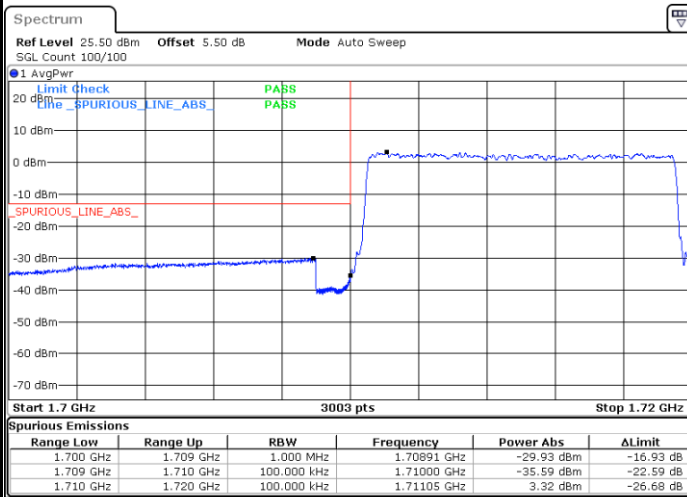
Date: 20.AUG.2021 09:38:36

Highest Band Edge / 1 RB



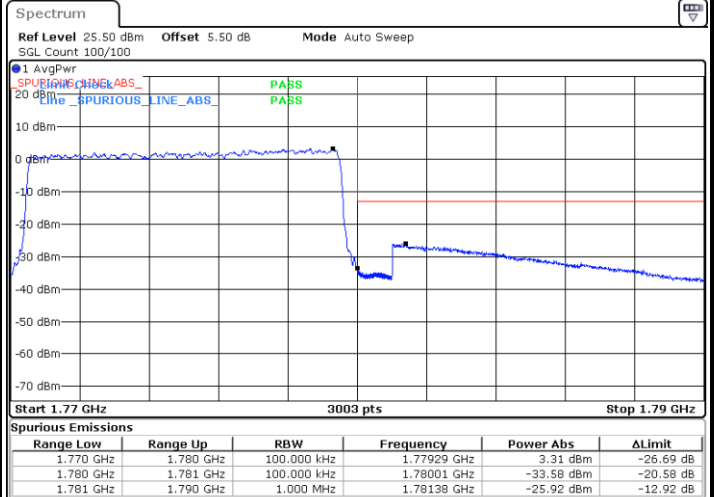
Date: 20.AUG.2021 09:46:43

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:39:53

Highest Band Edge / Full RB

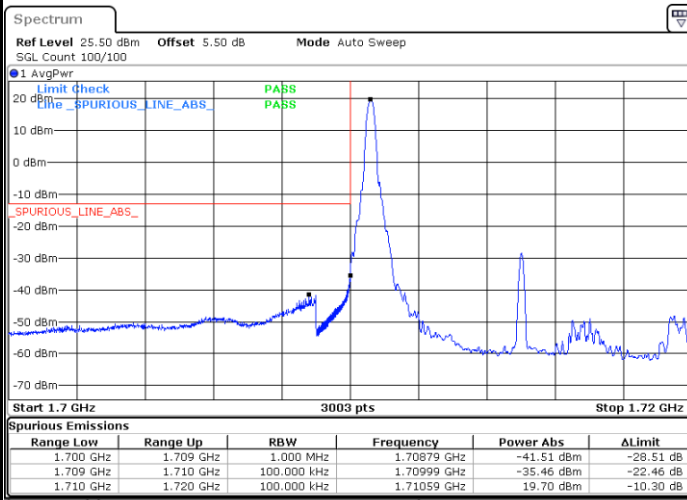


Date: 20.AUG.2021 09:45:09



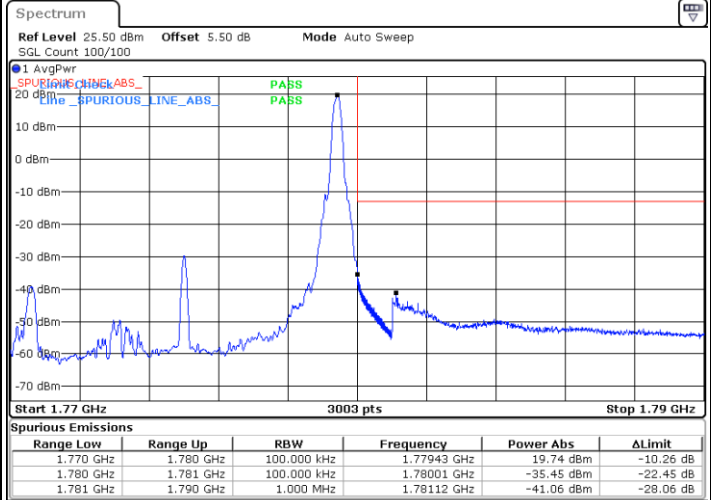
LTE Band 66 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



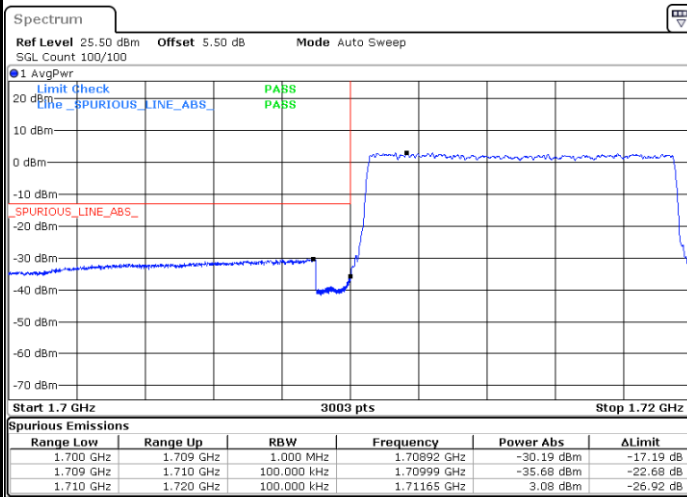
Date: 20.AUG.2021 09:39:07

Highest Band Edge / 1 RB



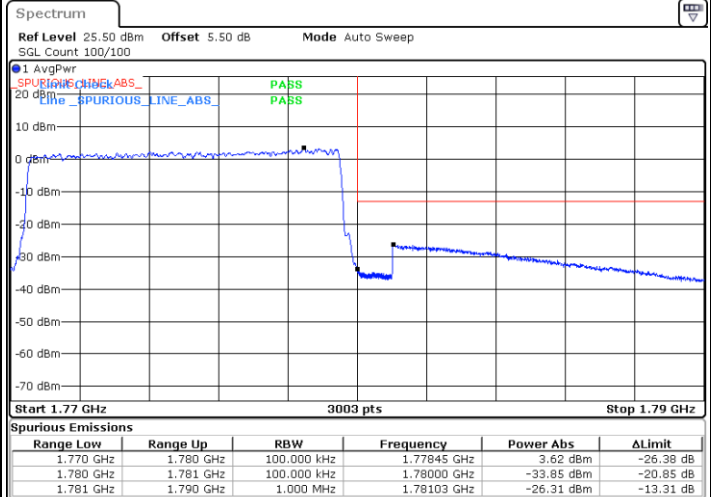
Date: 20.AUG.2021 09:46:24

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:39:29

Highest Band Edge / Full RB

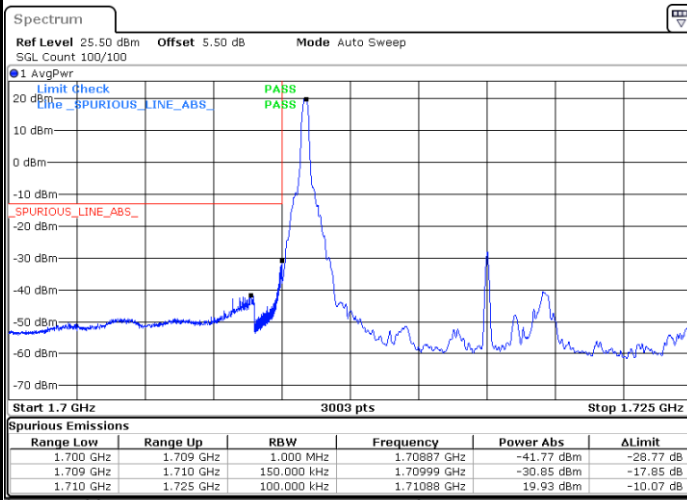


Date: 20.AUG.2021 09:45:45



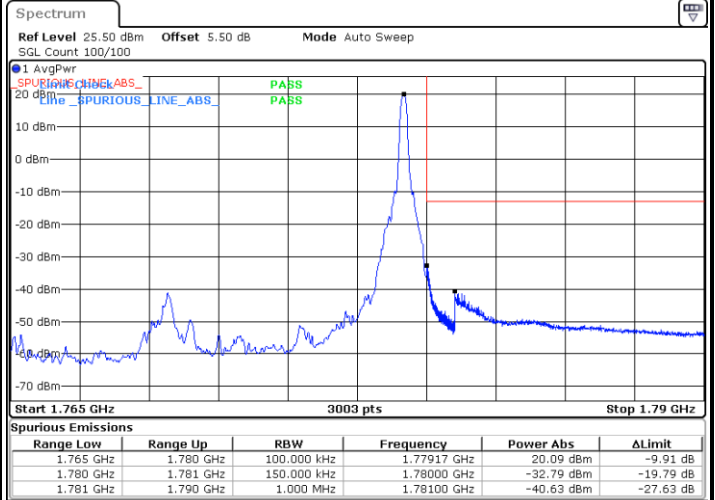
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



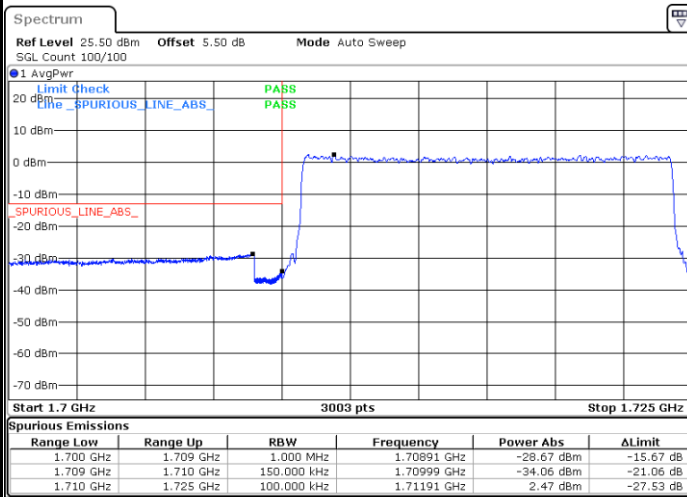
Date: 20.AUG.2021 09:28:04

Highest Band Edge / 1 RB



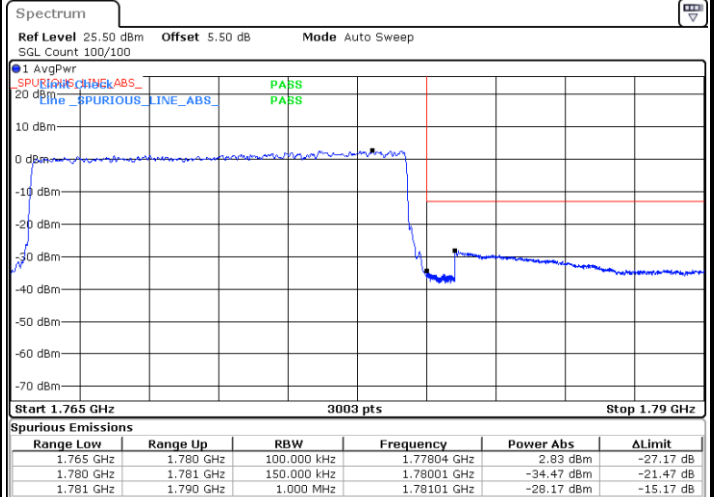
Date: 20.AUG.2021 09:33:12

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:30:09

Highest Band Edge / Full RB

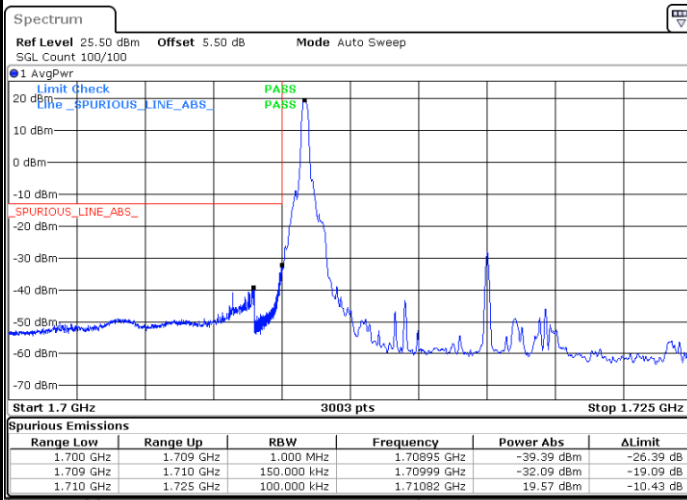


Date: 20.AUG.2021 09:34:37



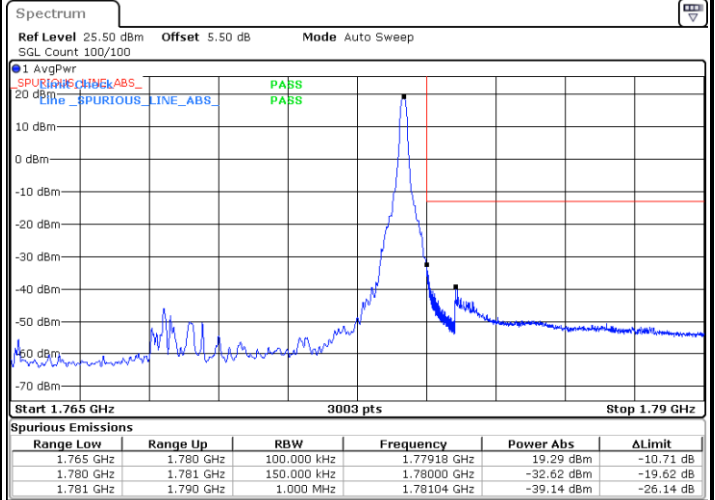
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



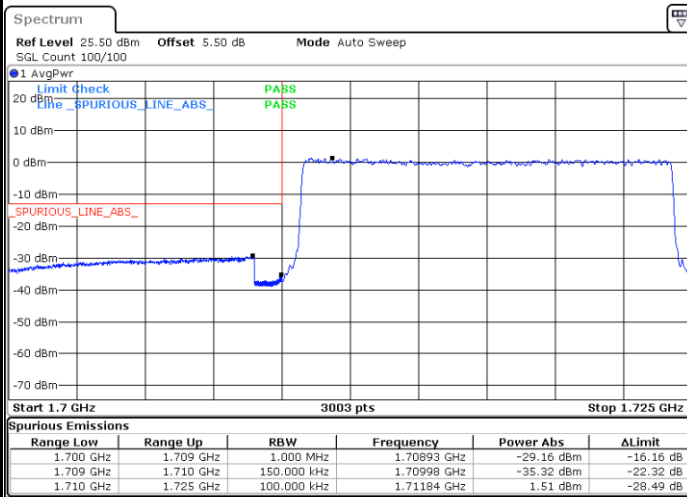
Date: 20.AUG.2021 09:28:24

Highest Band Edge / 1 RB



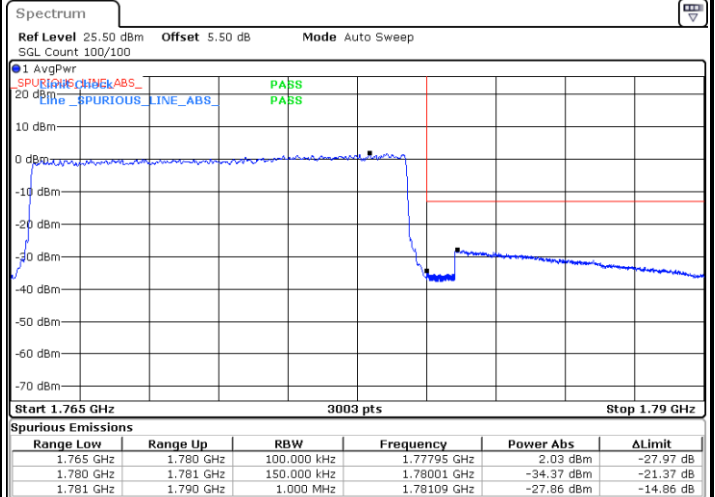
Date: 20.AUG.2021 09:33:27

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:29:36

Highest Band Edge / Full RB

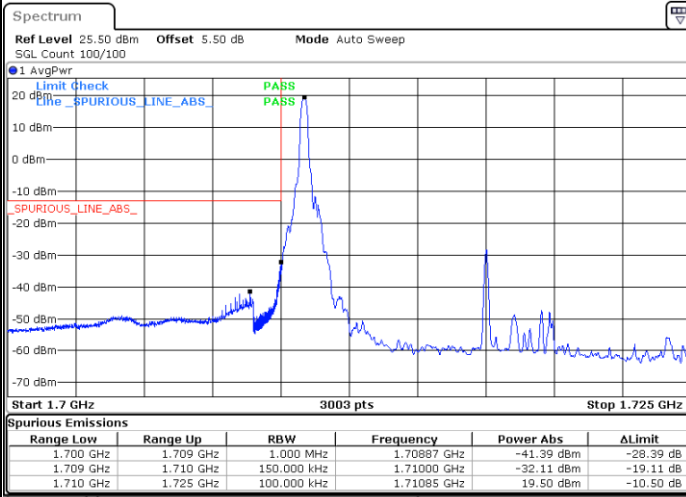


Date: 20.AUG.2021 09:34:20



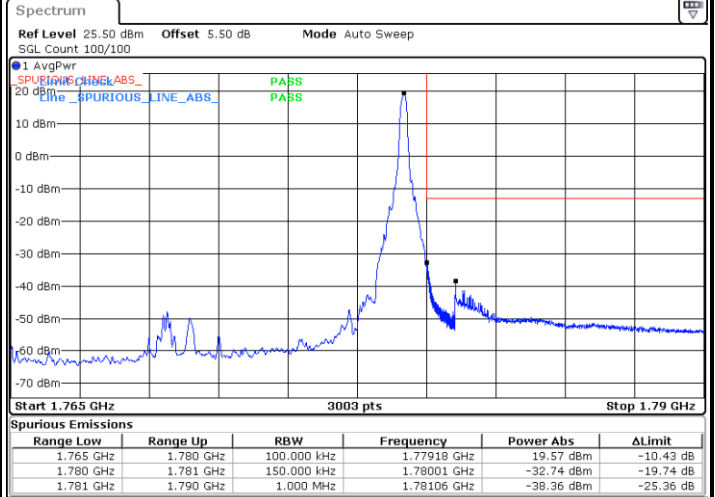
LTE Band 66 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



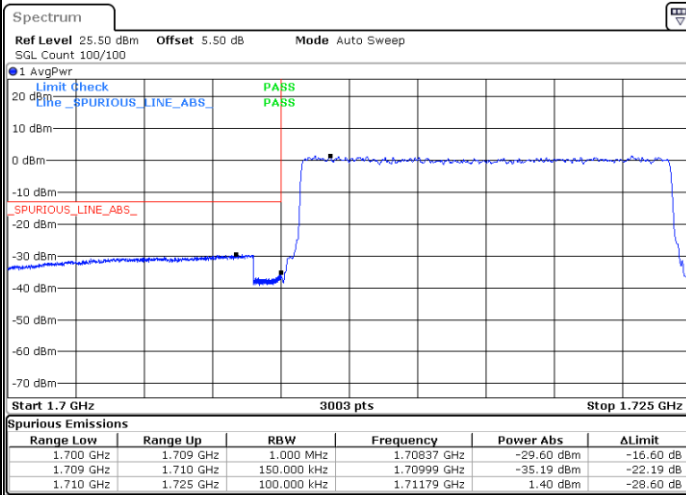
Date: 20.AUG.2021 09:28:47

Highest Band Edge / 1 RB



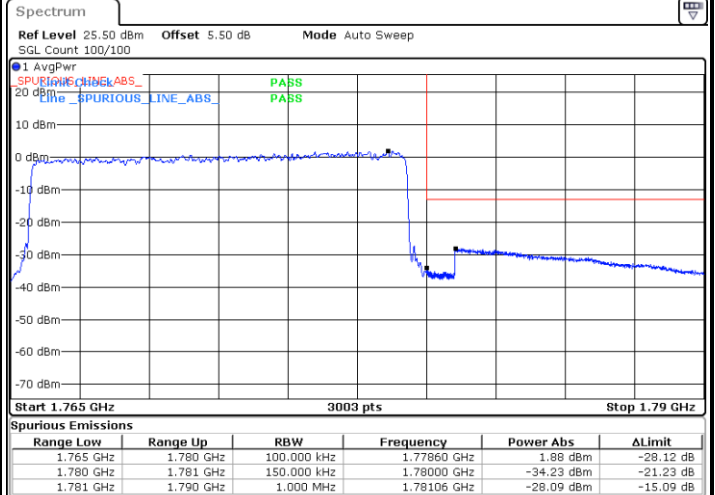
Date: 20.AUG.2021 09:33:44

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:29:14

Highest Band Edge / Full RB

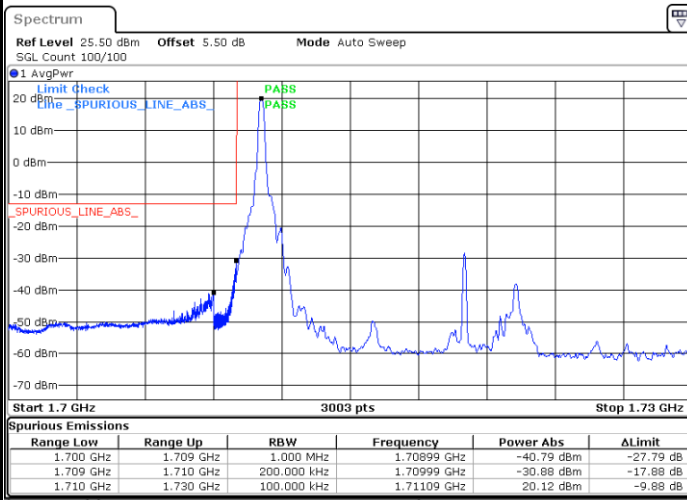


Date: 20.AUG.2021 09:34:02



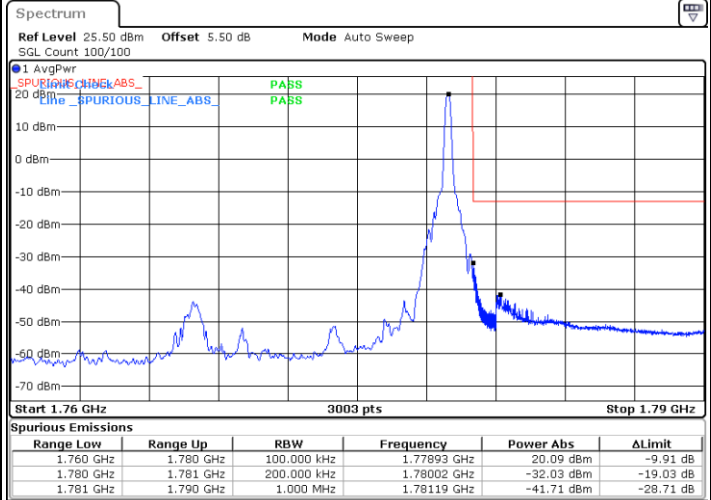
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / 1 RB



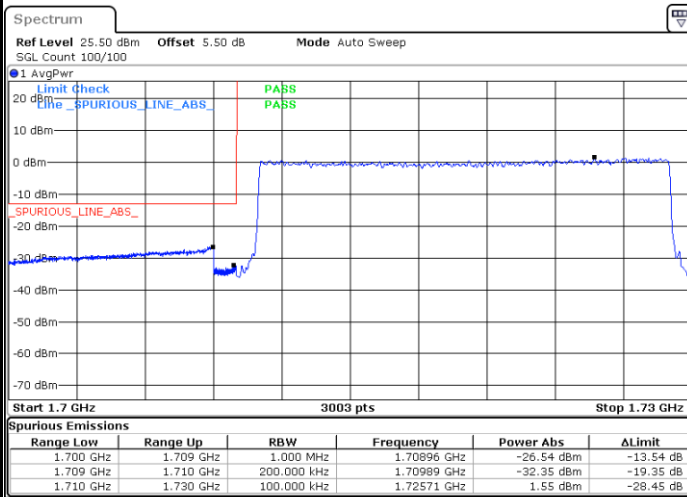
Date: 20.AUG.2021 09:19:53

Highest Band Edge / 1 RB



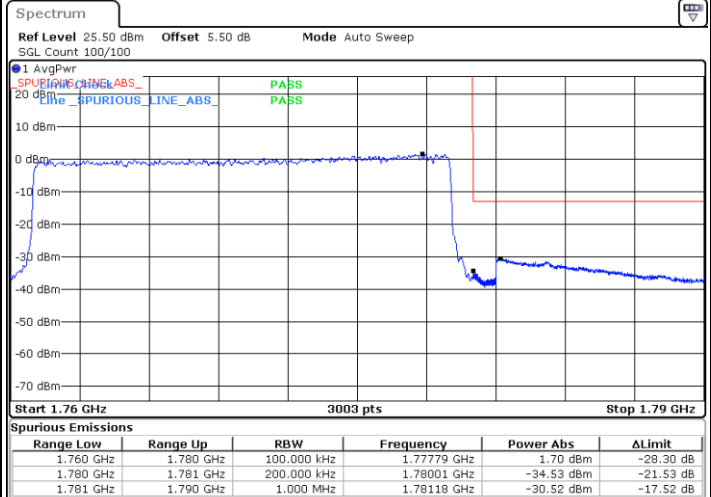
Date: 20.AUG.2021 09:24:56

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:21:54

Highest Band Edge / Full RB

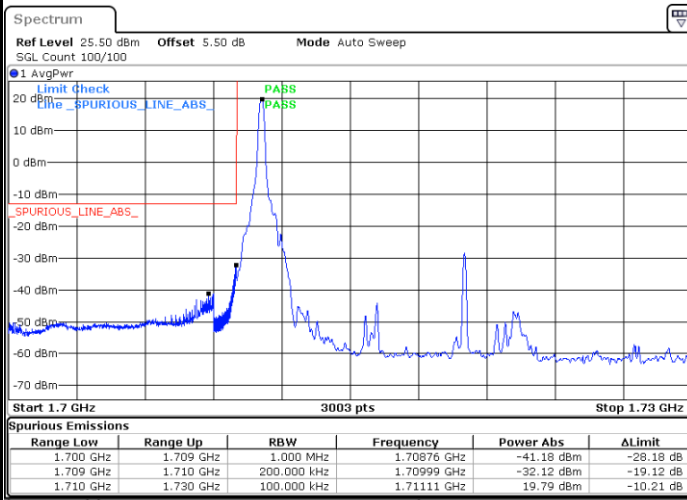


Date: 20.AUG.2021 09:22:23



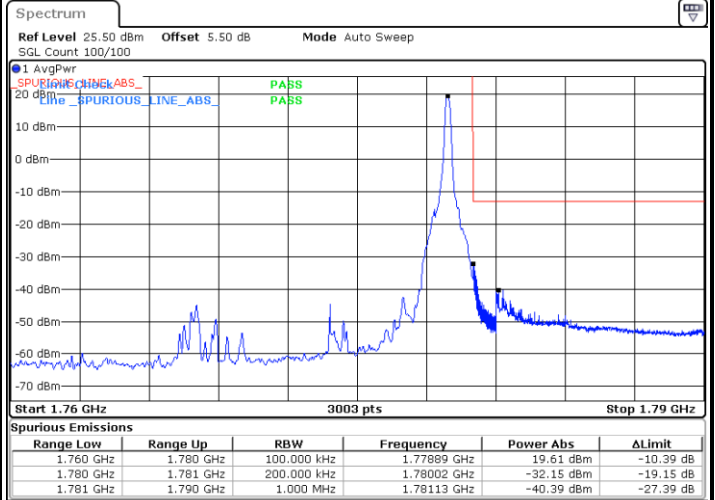
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



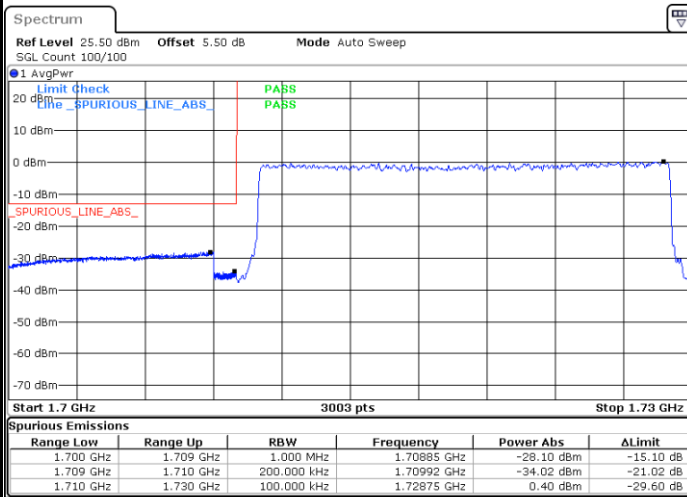
Date: 20.AUG.2021 09:20:35

Highest Band Edge / 1 RB



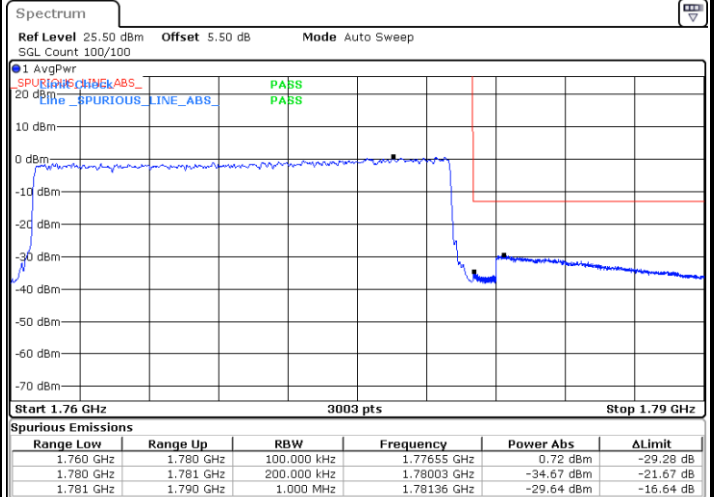
Date: 20.AUG.2021 09:25:11

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:21:37

Highest Band Edge / Full RB

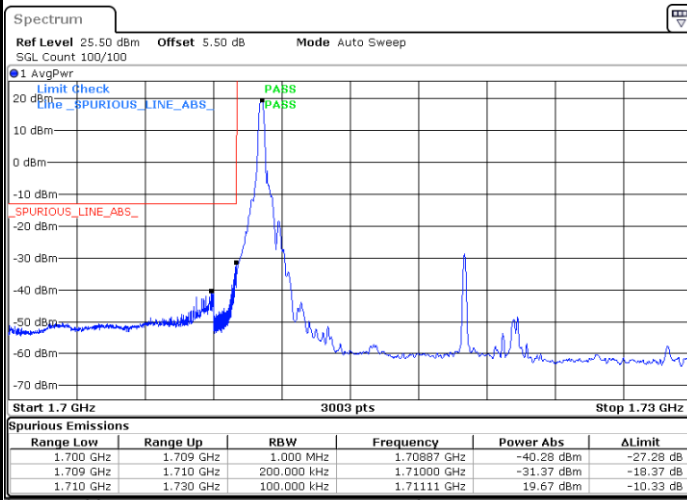


Date: 20.AUG.2021 09:22:38



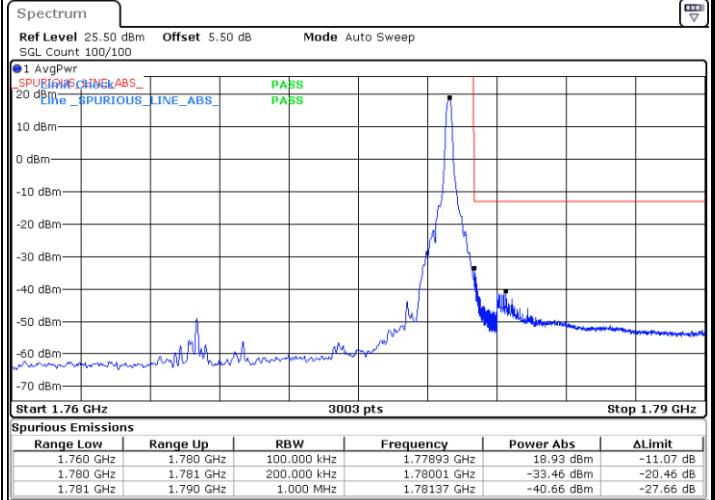
LTE Band 66 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



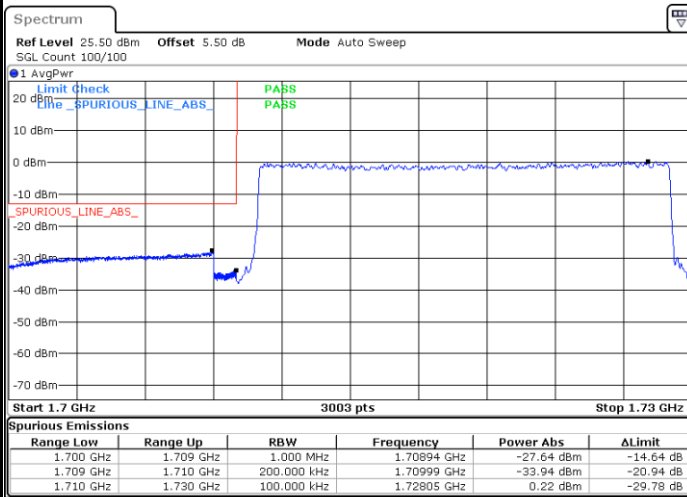
Date: 20.AUG.2021 09:20:57

Highest Band Edge / 1 RB



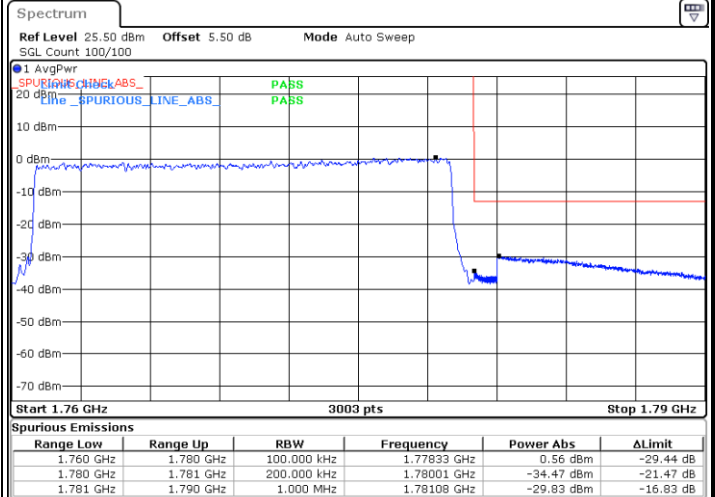
Date: 20.AUG.2021 09:25:27

Lowest Band Edge / Full RB



Date: 20.AUG.2021 09:21:21

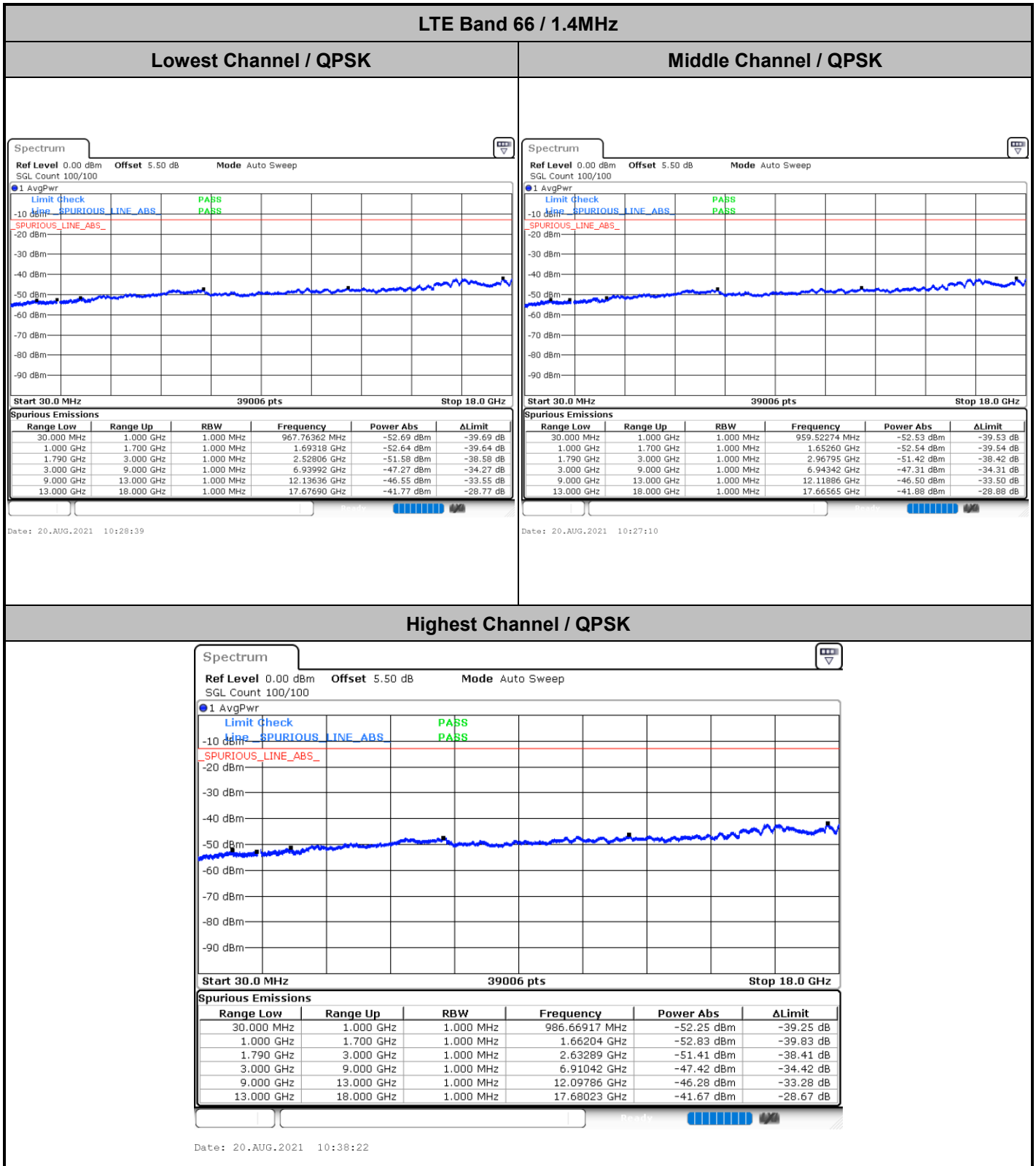
Highest Band Edge / Full RB



Date: 20.AUG.2021 09:22:54



Conducted Spurious Emission

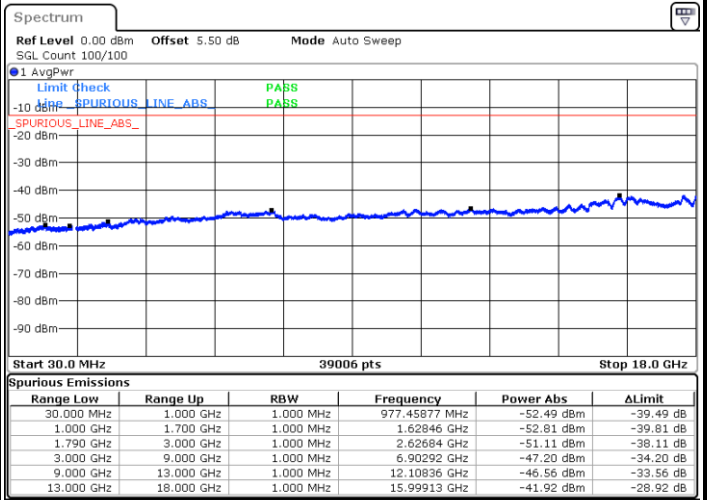
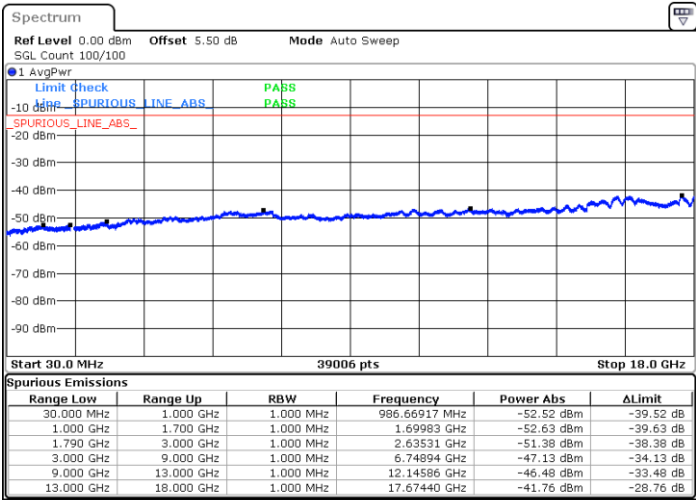




LTE Band 66 / 3MHz

Lowest Channel / QPSK

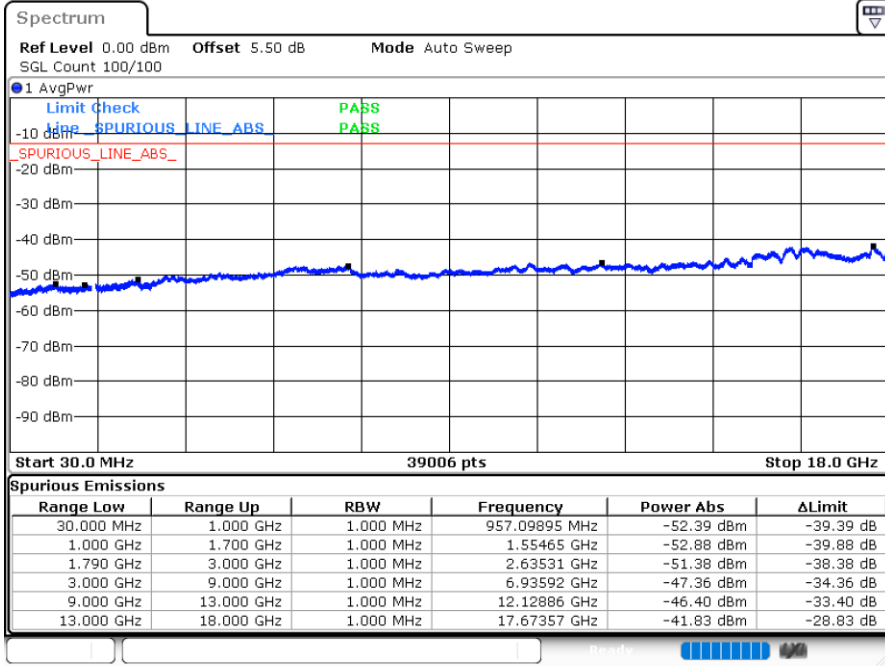
Middle Channel / QPSK



Date: 20.AUG.2021 10:11:43

Date: 20.AUG.2021 10:10:08

Highest Channel / QPSK



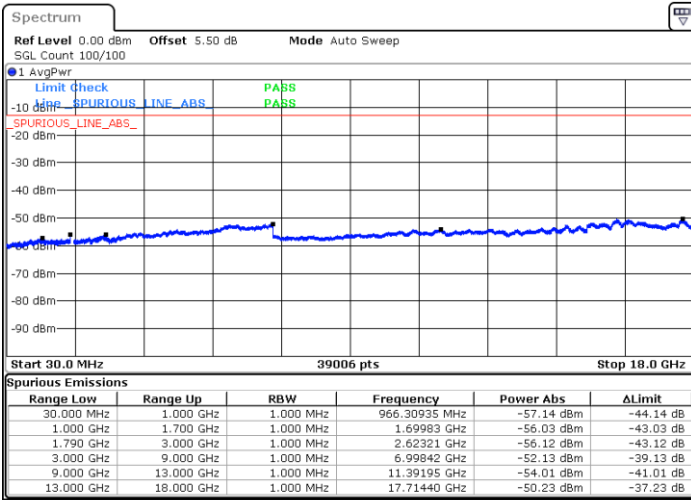
Date: 20.AUG.2021 10:18:08



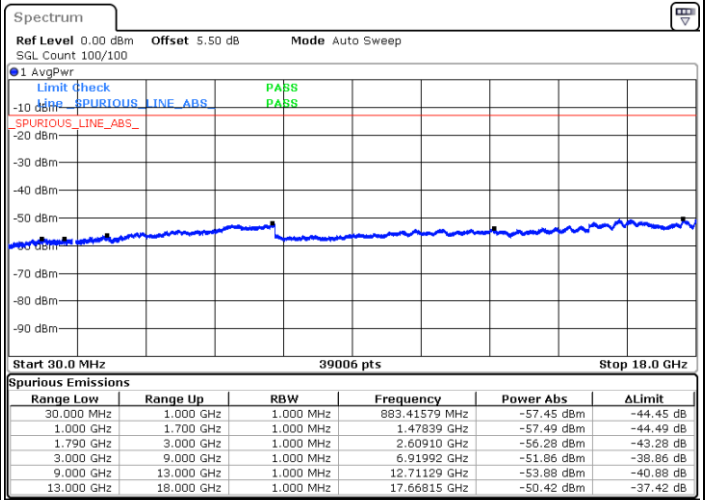
LTE Band 66 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

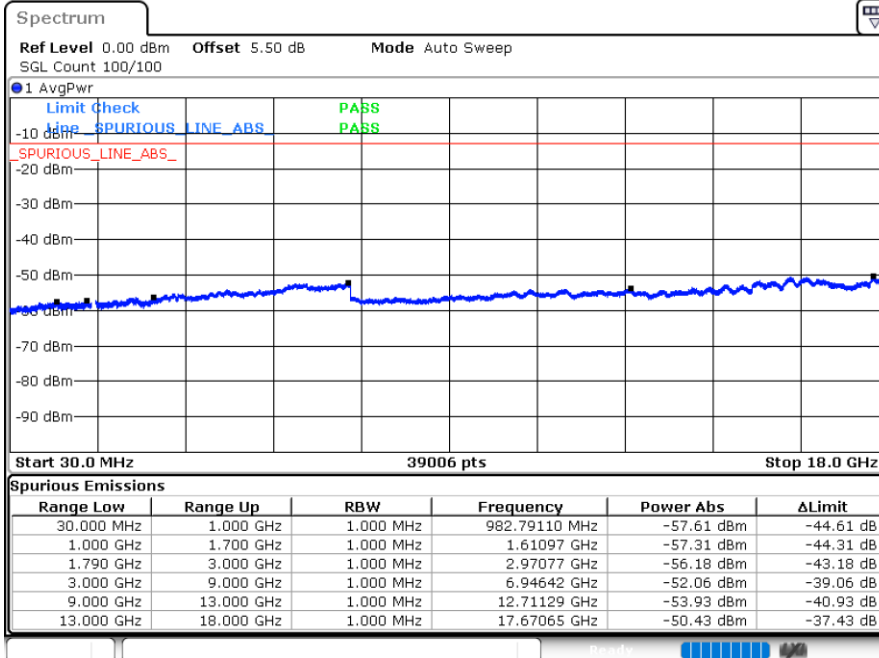


Date: 20.AUG.2021 09:50:34



Date: 20.AUG.2021 09:49:12

Highest Channel / QPSK



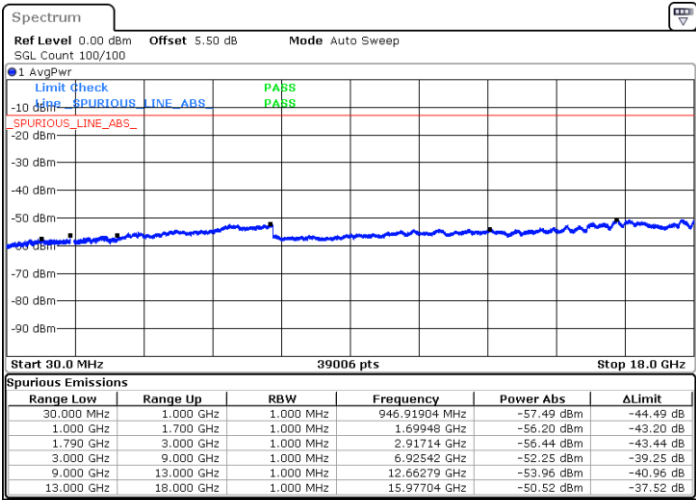
Date: 20.AUG.2021 09:58:10



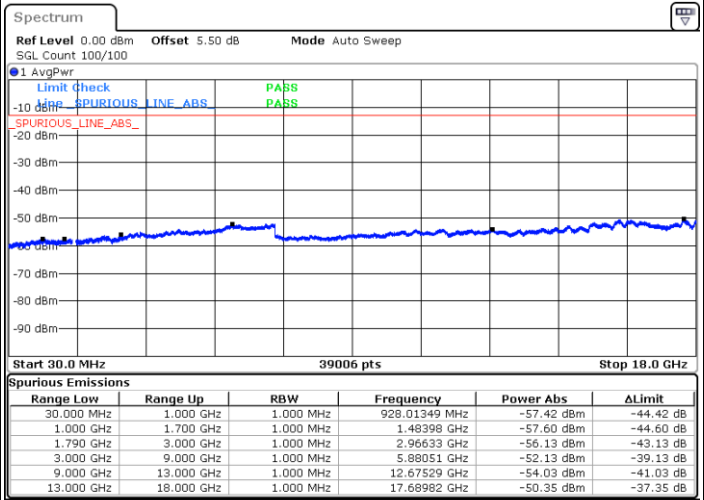
LTE Band 66 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

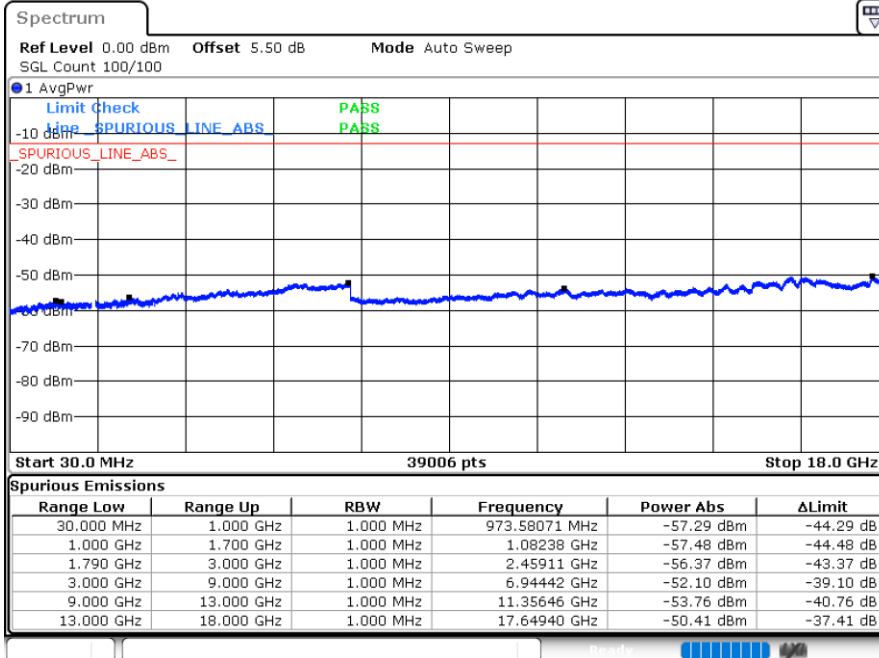


Date: 20.AUG.2021 09:37:46



Date: 20.AUG.2021 09:36:21

Highest Channel / QPSK



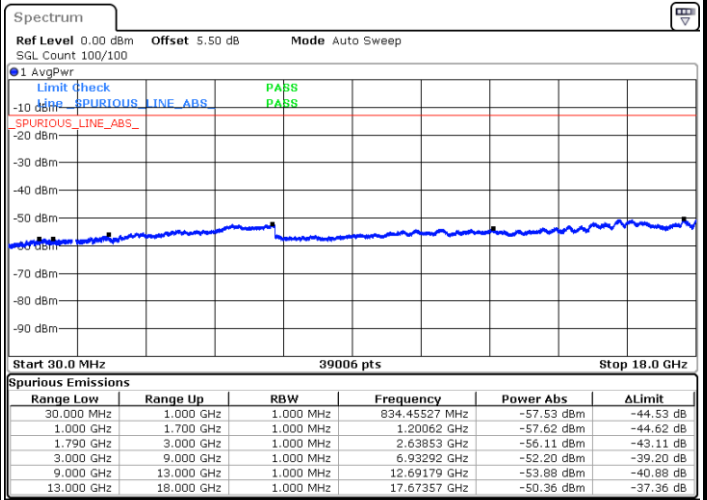
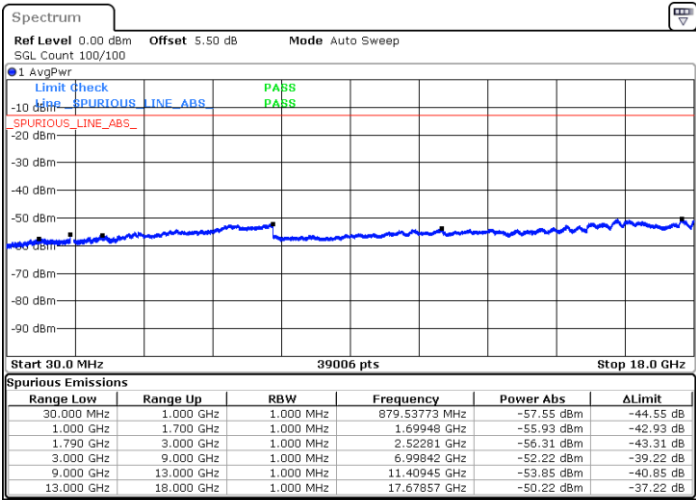
Date: 20.AUG.2021 09:41:45



LTE Band 66 / 15MHz

Lowest Channel / QPSK

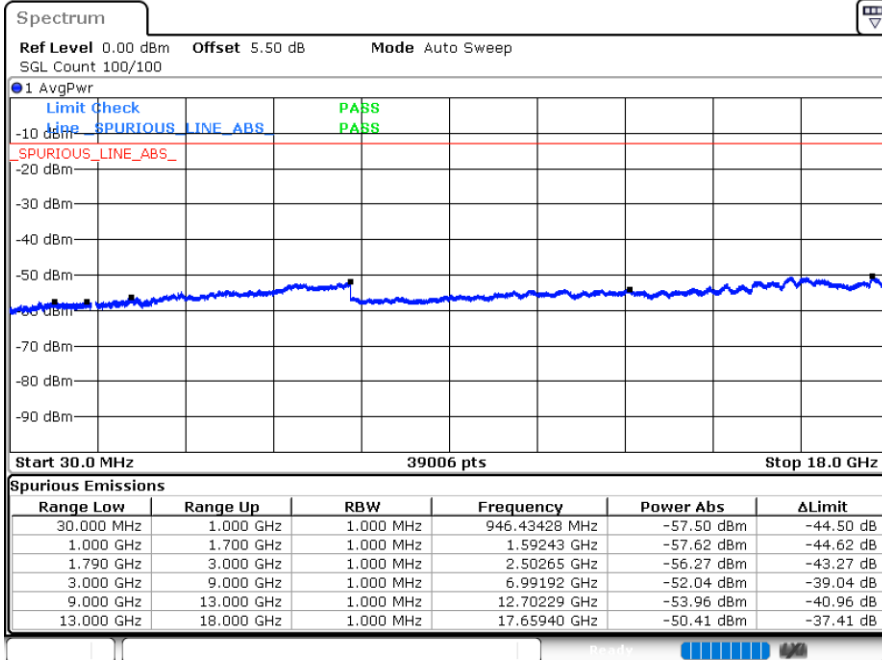
Middle Channel / QPSK



Date: 20.AUG.2021 09:31:26

Date: 20.AUG.2021 09:27:38

Highest Channel / QPSK



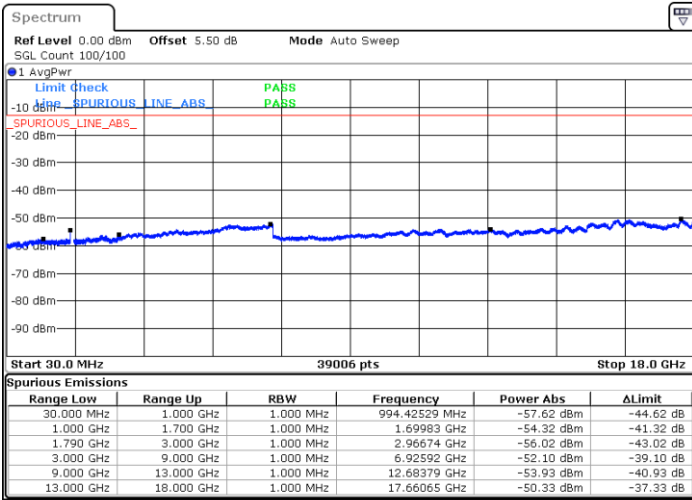
Date: 20.AUG.2021 09:32:51



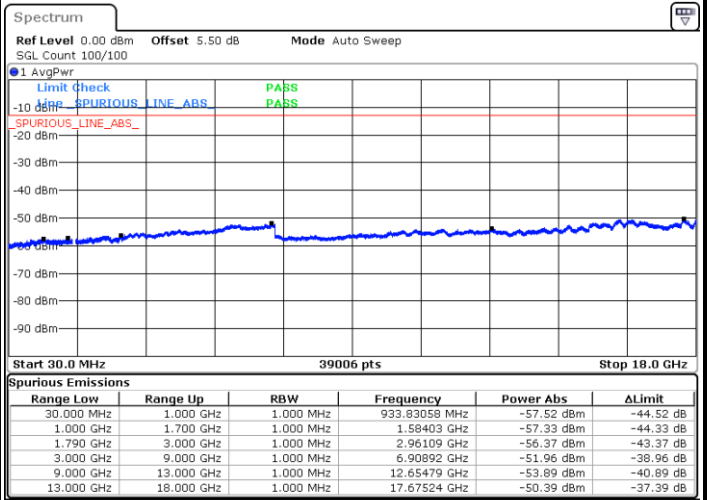
LTE Band 66 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

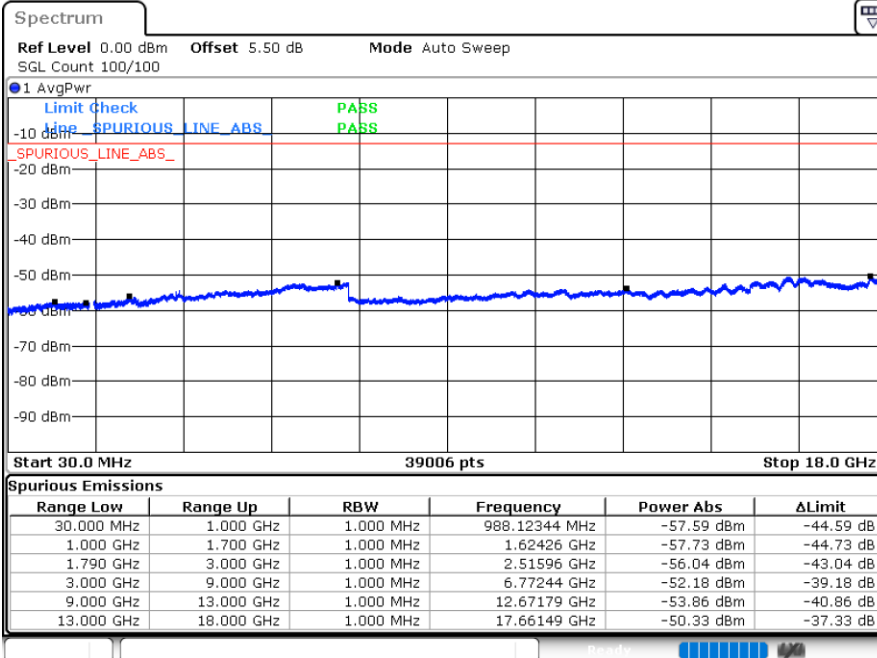


Date: 20.AUG.2021 09:18:59



Date: 20.AUG.2021 09:12:33

Highest Channel / QPSK



Date: 20.AUG.2021 09:24:32



Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Ant. 1:

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	3471	-58.18	-13	-45.18	-70.44	2.64	14.90	H
	5613	-54.18	-13	-41.18	-66.04	2.94	14.80	H
	7488	-54.36	-13	-41.36	-64.13	3.39	13.16	H
	3471	-58.75	-13	-45.75	-71.01	2.64	14.90	V
	5613	-55.95	-13	-42.95	-67.81	2.94	14.80	V
	7488	-54.60	-13	-41.60	-64.37	3.39	13.16	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	-68.37	-13	-55.37	-75.34	1.58	10.70	H
	2110	-64.11	-13	-51.11	-72.36	2.102	12.50	H
	2812	-61.45	-13	-48.45	-70.34	2.856	13.90	H
	1406	-68.34	-13	-55.34	-75.31	1.58	10.70	V
	2110	-62.91	-13	-49.91	-71.16	2.10	12.50	V
	2812	-60.97	-13	-47.97	-69.86	2.86	13.90	V

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

LTE Band 13 / 5MHz / 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	1560	-64.10	-42.15	-21.95	-66.73	1.09	5.87	H
	2340	-62.75	-13	-49.75	-65.15	1.37	5.92	H
	3120	-61.70	-13	-48.70	-65.59	1.64	7.68	H
	1560	-60.26	-42.15	-18.11	-62.89	1.09	5.87	V
	2340	-61.38	-13	-48.38	-63.78	1.37	5.92	V
	3120	-61.36	-13	-48.36	-65.25	1.64	7.68	V

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



LTE Band 13 / 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	1556	-68.60	-13	-55.60	-71.23	1.09	5.87	H
	2332	-63.76	-13	-50.76	-66.16	1.37	5.92	H
	3108	-61.22	-13	-48.22	-65.11	1.64	7.68	H
	1556	-67.74	-13	-54.74	-70.37	1.09	5.87	V
	2332	-61.94	-13	-48.94	-64.34	1.37	5.92	V
	3108	-61.44	-13	-48.44	-65.33	1.64	7.68	V

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

LTE Band 26 / 15MHz / 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	1660	-65.03	-13	-52.03	-72.00	1.58	10.70	H
	2490	-60.17	-13	-47.17	-68.42	2.102	12.50	H
	3318	-62.06	-13	-49.06	-70.95	2.856	13.90	H
	1660	-64.45	-13	-51.45	-71.42	1.58	10.70	V
	2490	-58.59	-13	-45.59	-66.84	2.10	12.50	V
	3318	-61.59	-13	-48.59	-70.48	2.86	13.90	V

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

LTE Band 66 / 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	3471	-59.18	-13	-46.18	-69.92	2.604	13.34	H
	5208	-56.93	-13	-43.93	-67.44	3.011	13.52	H
	6948	-56.11	-13	-43.11	-66.31	3.271	13.47	H
	3471	-59.75	-13	-46.75	-70.49	2.604	13.34	V
	5208	-57.07	-13	-44.07	-67.58	3.011	13.52	V
	6948	-56.02	-13	-43.02	-66.22	3.271	13.47	V

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



Ant. 2:

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	-62.46	-13	-49.46	-69.43	1.58	10.70	H
	2496	-62.32	-13	-49.32	-70.57	2.102	12.50	H
	3330	-62.72	-13	-49.72	-71.61	2.856	13.90	H
	1664	-61.95	-13	-48.95	-68.92	1.58	10.70	V
	2496	-60.49	-13	-47.49	-68.74	2.10	12.50	V
	3330	-62.17	-13	-49.17	-71.06	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	-68.63	-13	-55.63	-75.60	1.58	10.70	H
	2110	-63.92	-13	-50.92	-72.17	2.102	12.50	H
	2812	-61.72	-13	-48.72	-70.61	2.856	13.90	H
	3516	-61.66	-13	-48.66	-69.35	3.46	13.30	H
	1406	-68.53	-13	-55.53	-75.50	1.58	10.70	V
	2110	-62.97	-13	-49.97	-71.22	2.10	12.50	V
	2812	-60.90	-13	-47.90	-69.79	2.86	13.90	V
	3516	-62.06	-13	-49.06	-69.75	3.46	13.30	V

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

LTE Band 66 / 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	3471	-57.11	-13	-44.11	-67.85	2.604	13.34	H
	5208	-51.45	-13	-38.45	-61.96	3.011	13.52	H
	6948	-55.95	-13	-42.95	-66.15	3.271	13.47	H
	3471	-55.63	-13	-42.63	-66.37	2.604	13.34	V
	5208	-56.92	-13	-43.92	-67.43	3.011	13.52	V
	6948	-56.32	-13	-43.32	-66.52	3.271	13.47	V

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