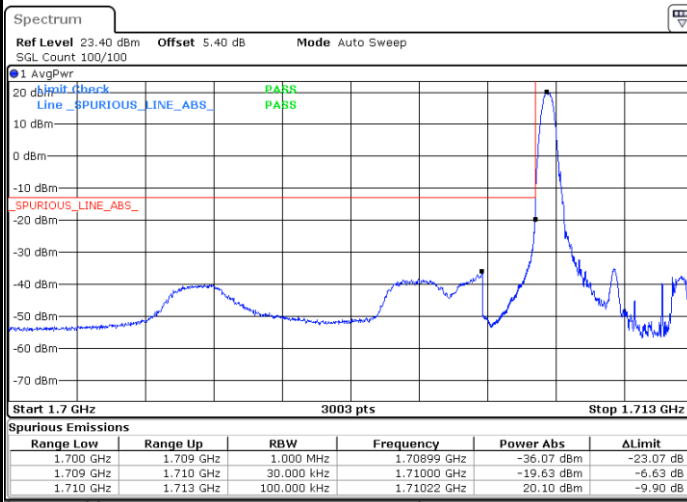




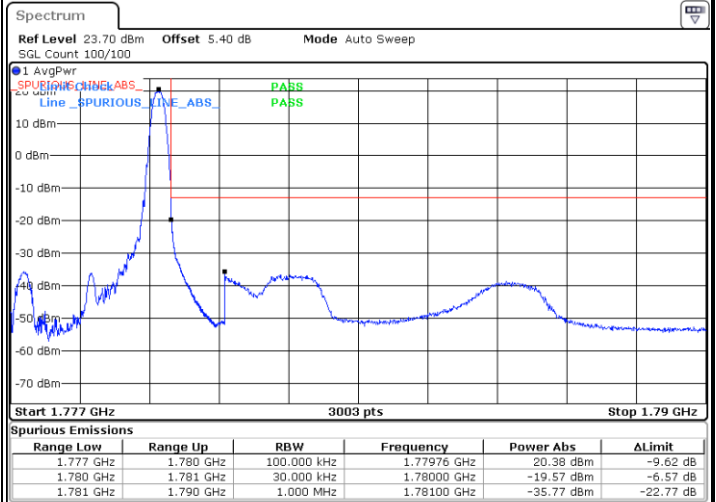
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



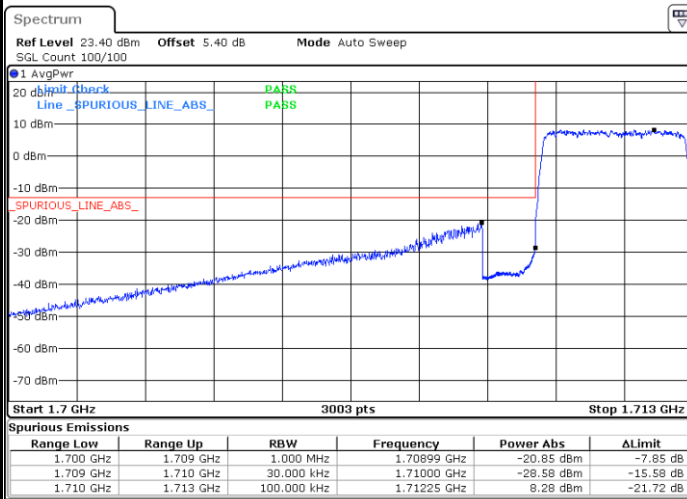
Date: 30.JAN.2021 18:30:09

Highest Band Edge / 1 RB



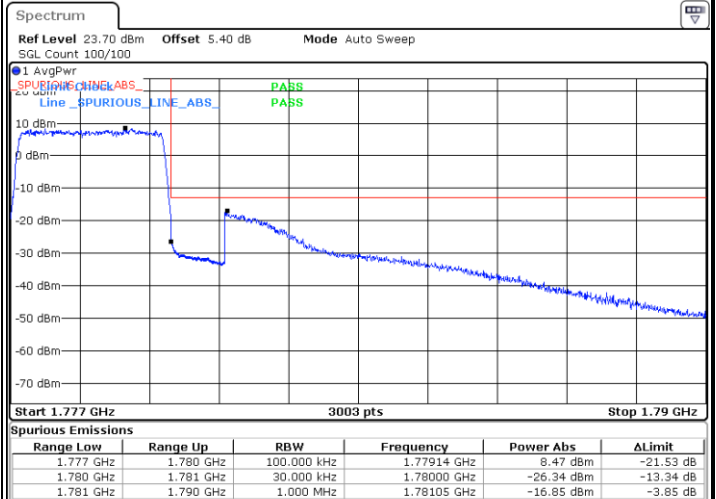
Date: 30.JAN.2021 18:34:51

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:27:50

Highest Band Edge / Full RB

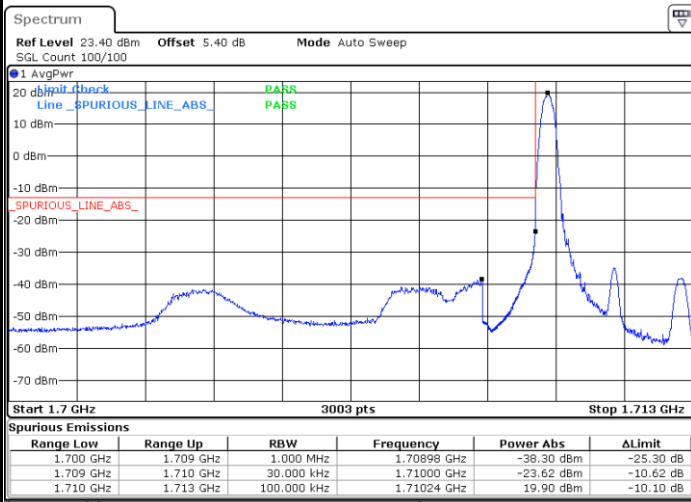


Date: 30.JAN.2021 18:32:40



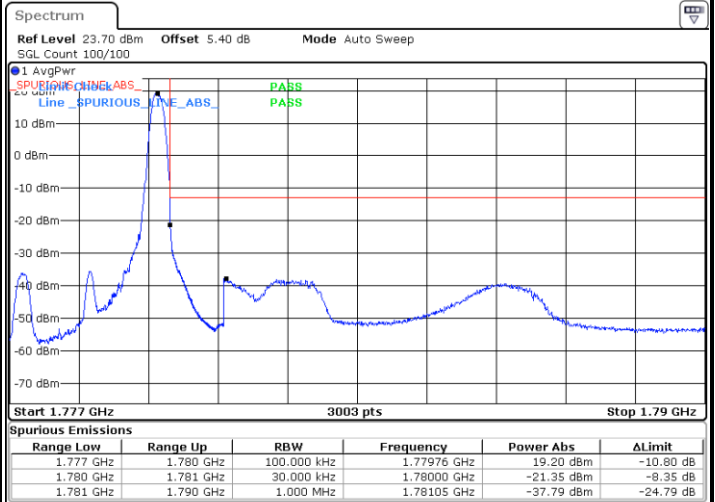
LTE Band 66 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



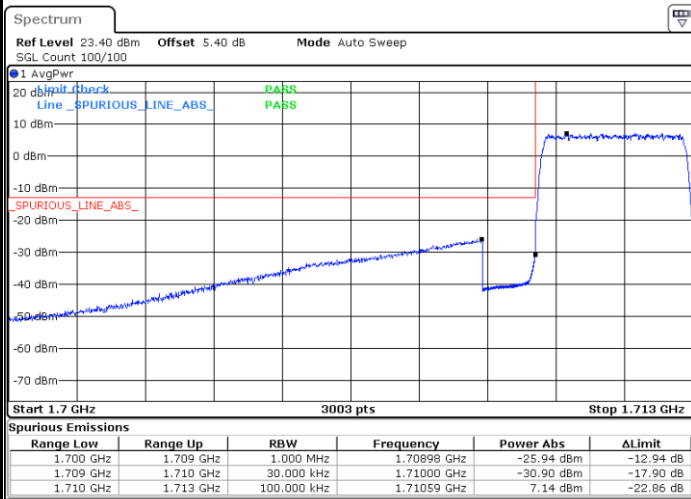
Date: 30.JAN.2021 18:29:18

Highest Band Edge / 1 RB



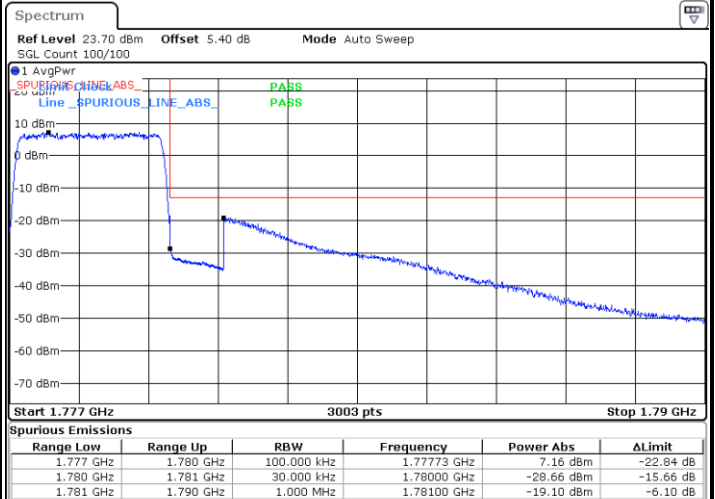
Date: 30.JAN.2021 18:34:11

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:28:36

Highest Band Edge / Full RB

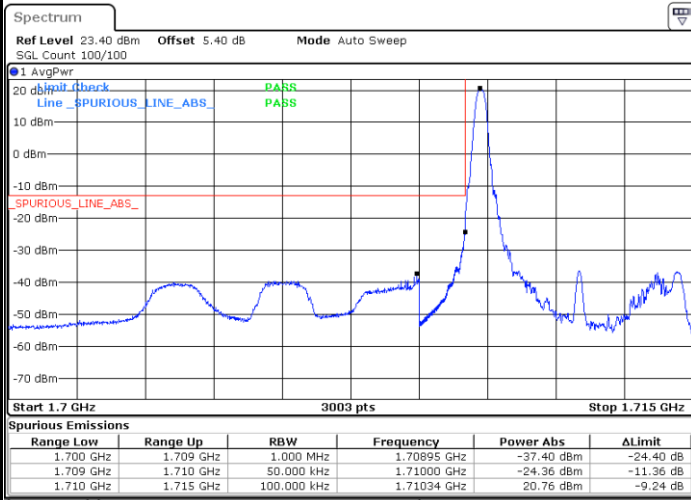


Date: 30.JAN.2021 18:33:21



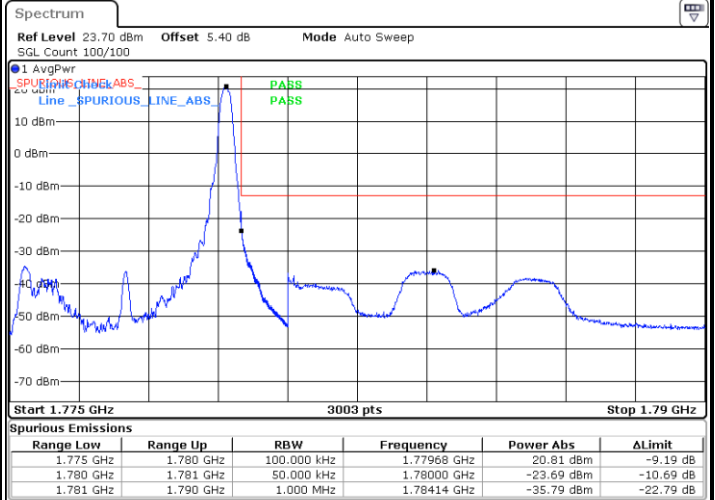
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



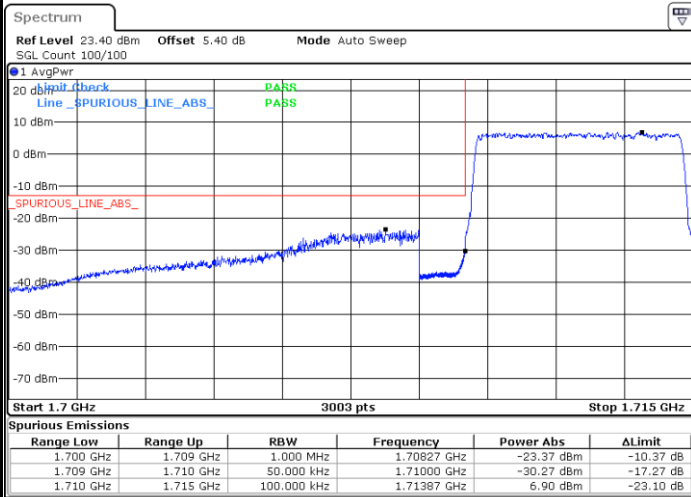
Date: 30.JAN.2021 18:41:31

Highest Band Edge / 1 RB



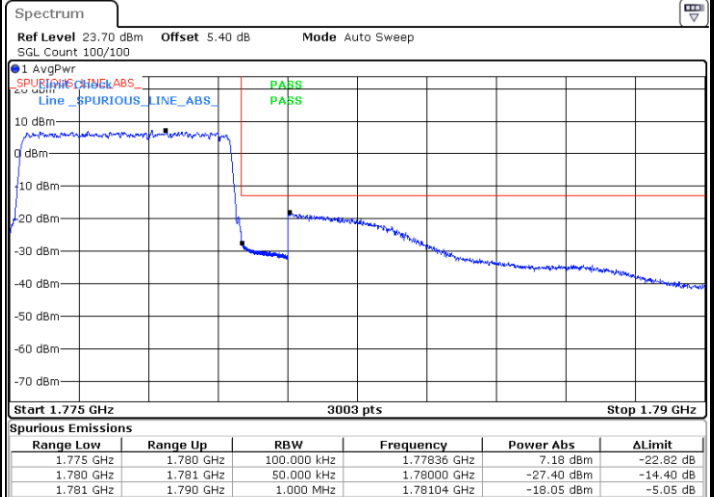
Date: 30.JAN.2021 18:45:21

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:39:16

Highest Band Edge / Full RB

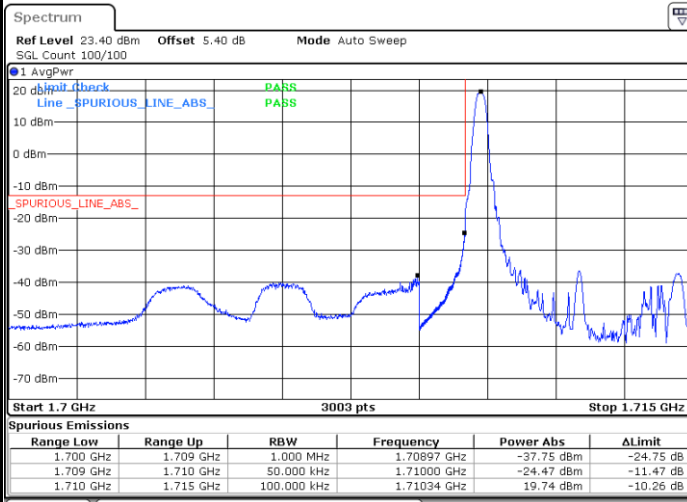


Date: 30.JAN.2021 18:43:08



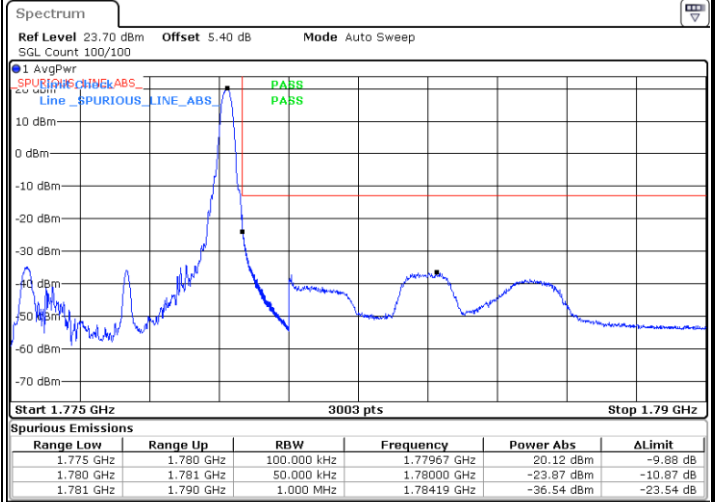
LTE Band 66 / 5MHz / 16QAM

Lowest Band Edge / 1RB



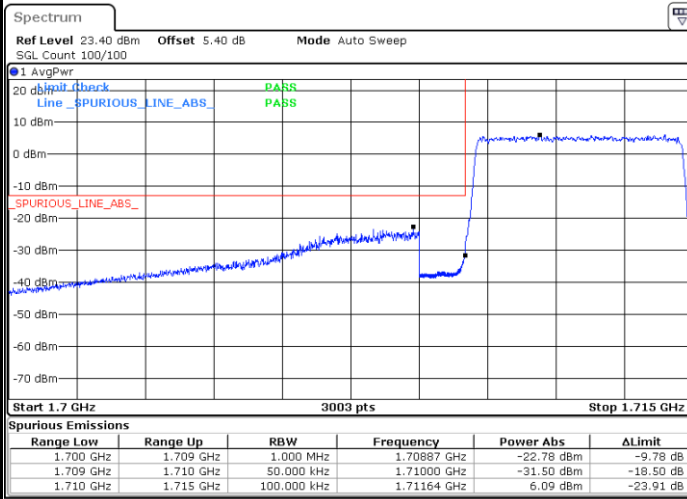
Date: 30.JAN.2021 18:41:10

Highest Band Edge / 1 RB



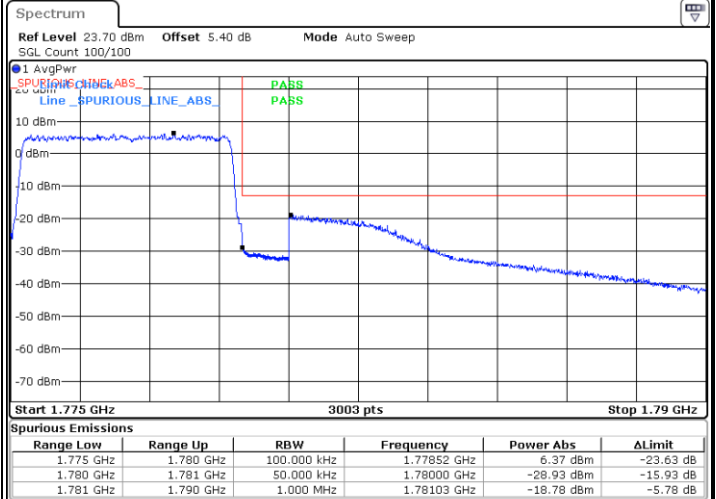
Date: 30.JAN.2021 18:45:01

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:39:58

Highest Band Edge / Full RB

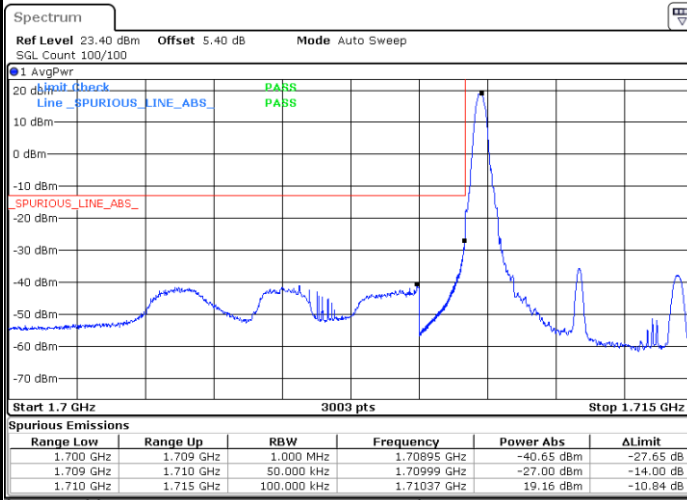


Date: 30.JAN.2021 18:43:38



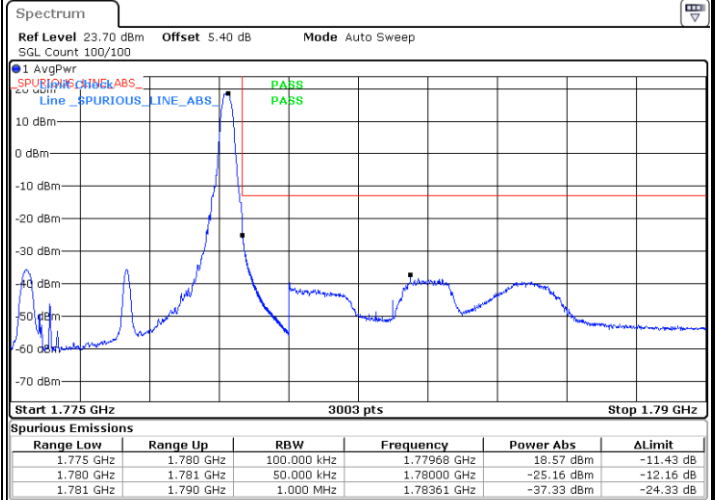
LTE Band 66 / 5MHz / 64QAM

Lowest Band Edge / 1RB



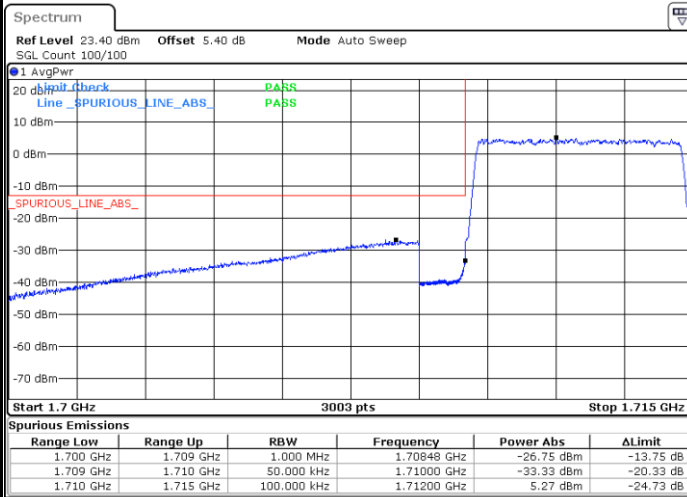
Date: 30.JAN.2021 18:40:48

Highest Band Edge / 1 RB



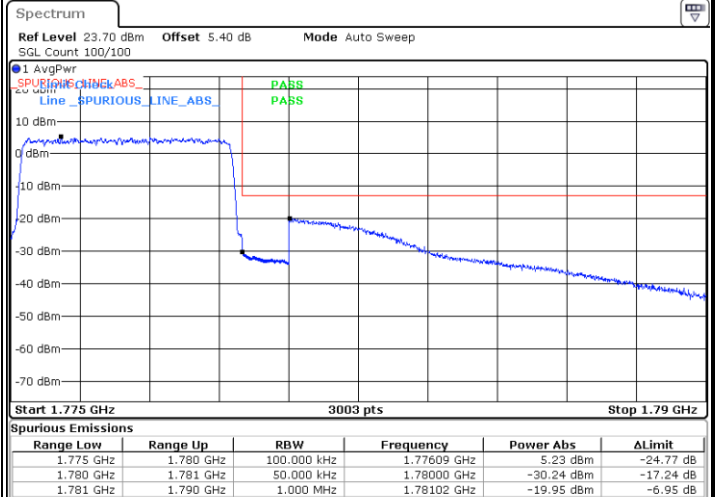
Date: 30.JAN.2021 18:44:39

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:40:24

Highest Band Edge / Full RB

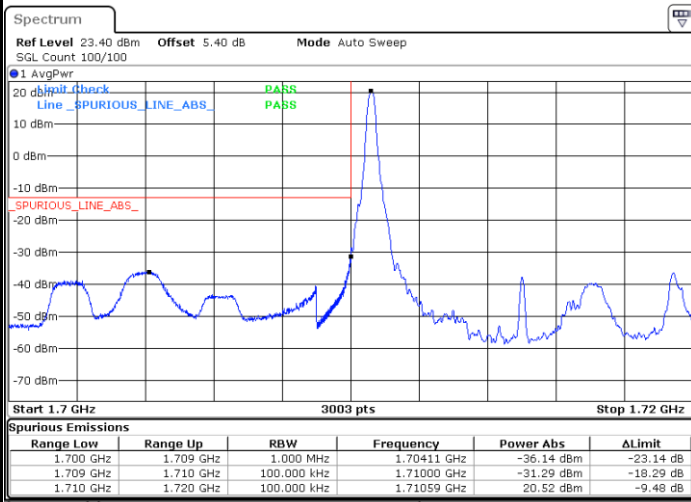


Date: 30.JAN.2021 18:44:16



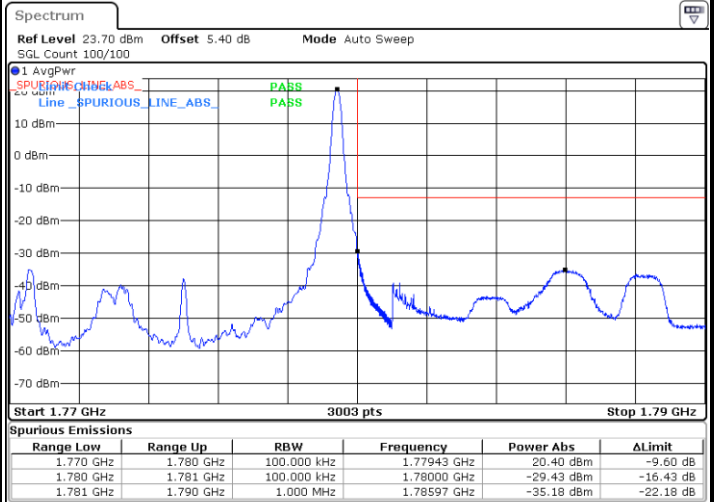
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



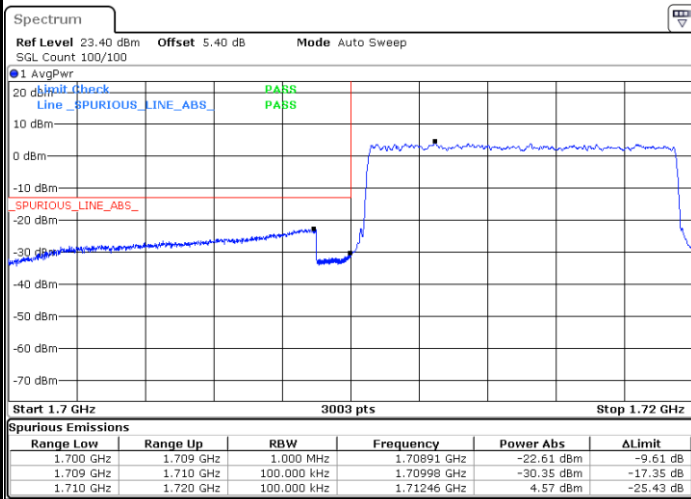
Date: 30.JAN.2021 18:50:24

Highest Band Edge / 1 RB



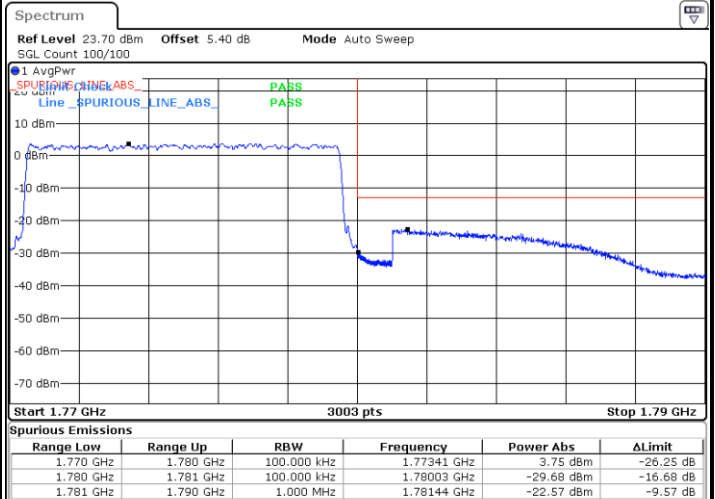
Date: 30.JAN.2021 18:52:19

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:48:58

Highest Band Edge / Full RB

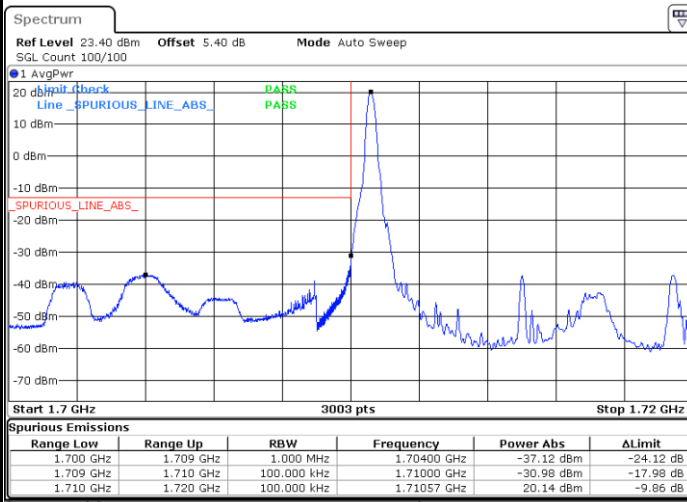


Date: 30.JAN.2021 18:50:56



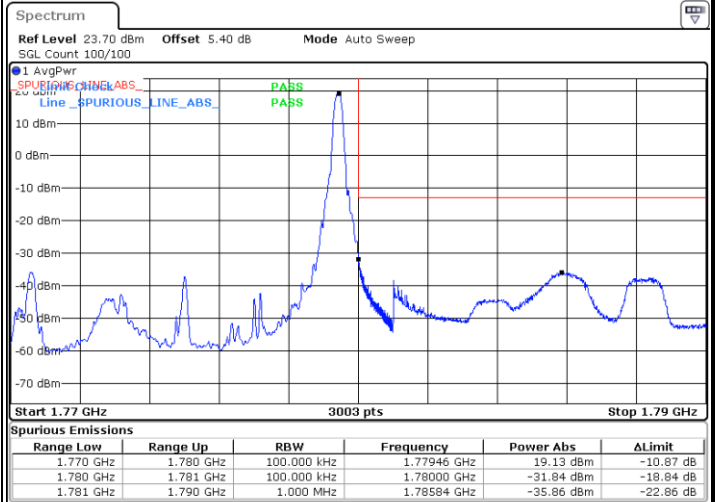
LTE Band 66 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



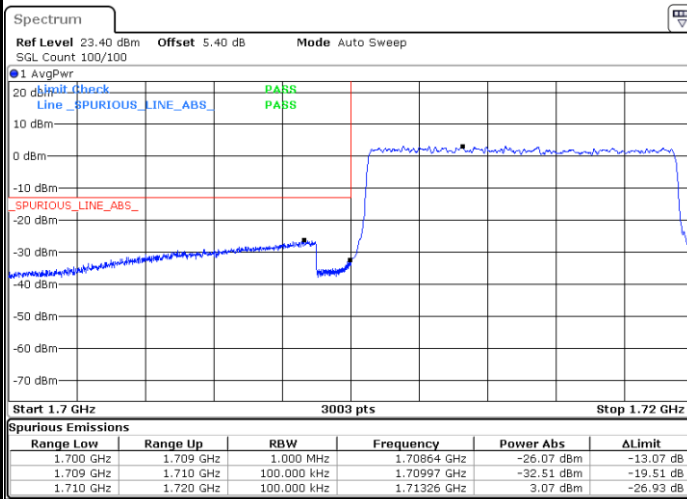
Date: 30.JAN.2021 18:50:10

Highest Band Edge / 1 RB



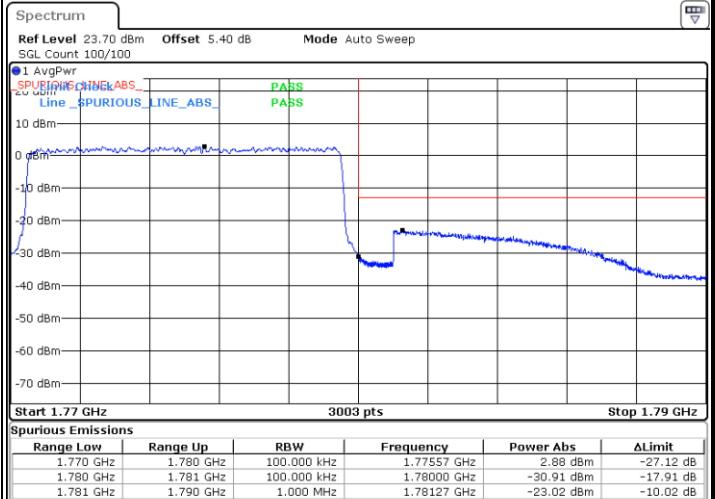
Date: 30.JAN.2021 18:52:06

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:49:14

Highest Band Edge / Full RB

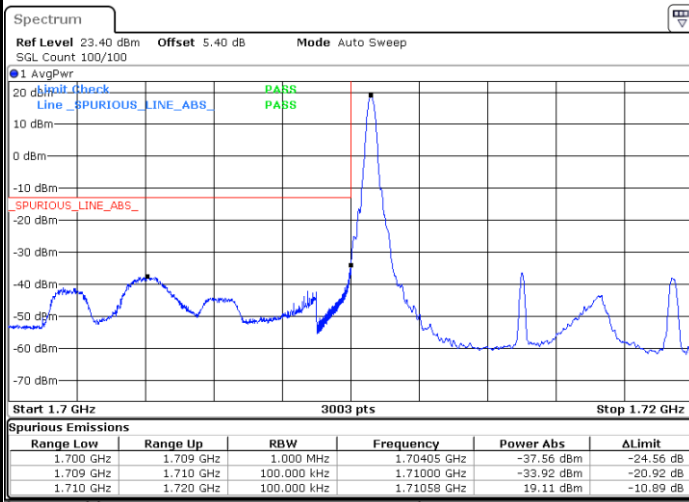


Date: 30.JAN.2021 18:51:20



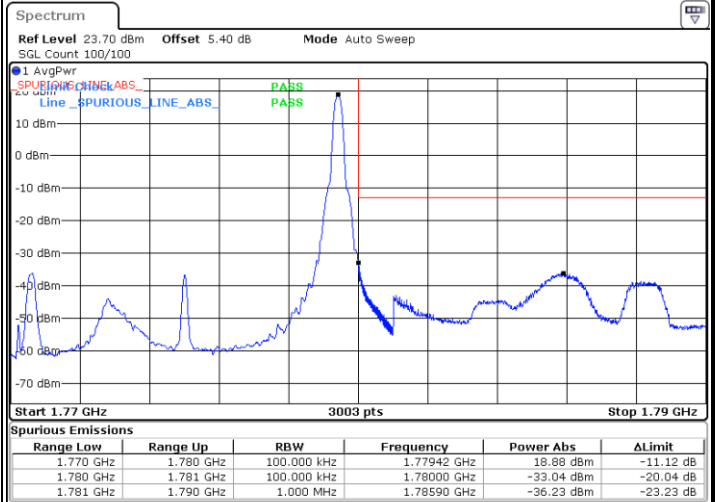
LTE Band 66 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



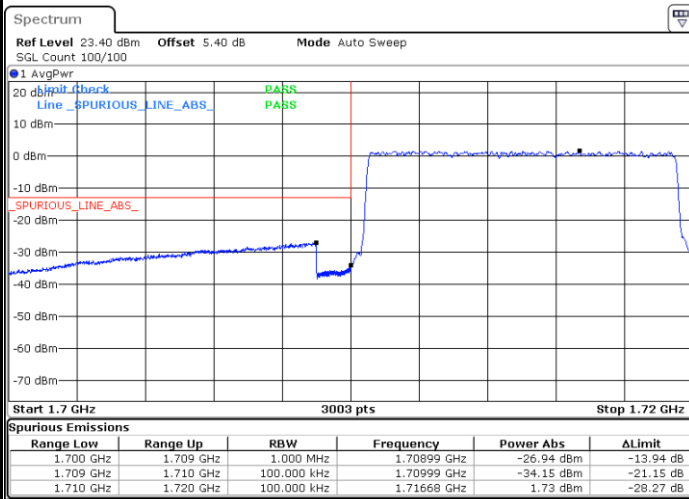
Date: 30.JAN.2021 18:49:53

Highest Band Edge / 1 RB



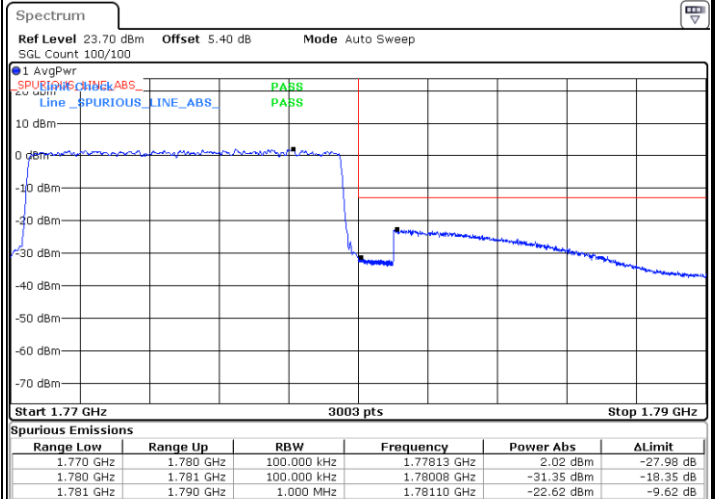
Date: 30.JAN.2021 18:51:54

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:49:32

Highest Band Edge / Full RB

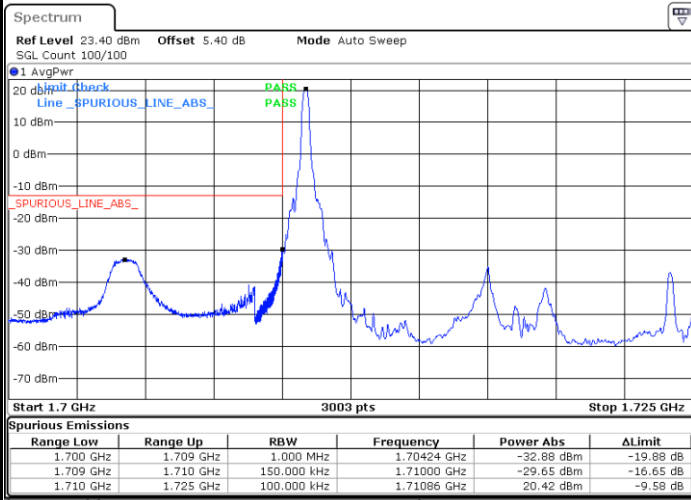


Date: 30.JAN.2021 18:51:34



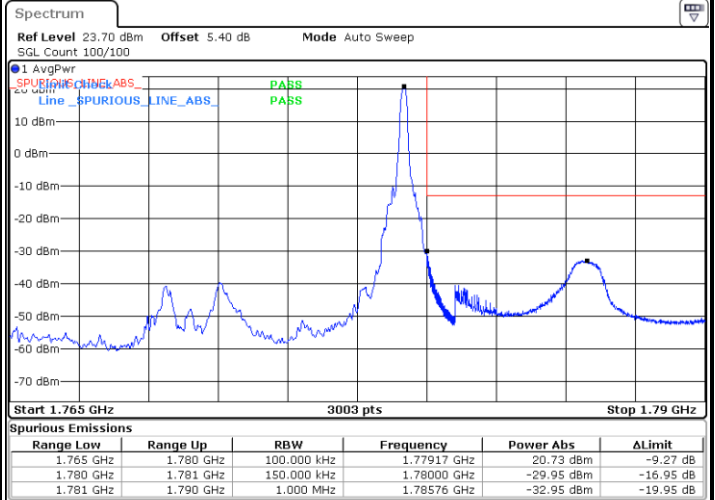
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



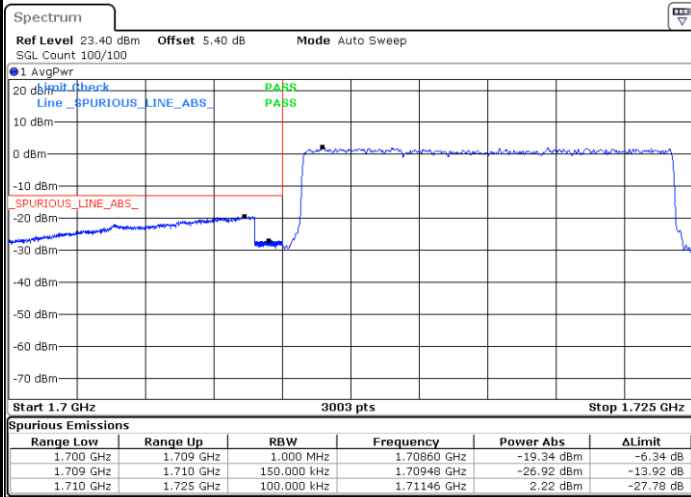
Date: 30.JAN.2021 19:00:03

Highest Band Edge / 1 RB



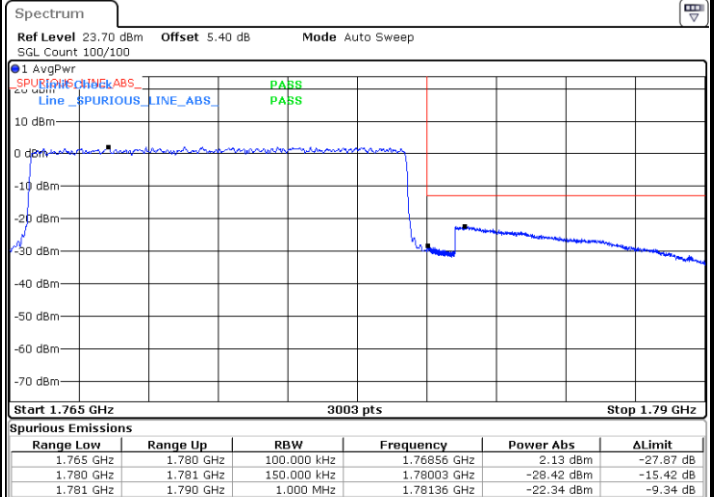
Date: 30.JAN.2021 19:05:23

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:56:37

Highest Band Edge / Full RB

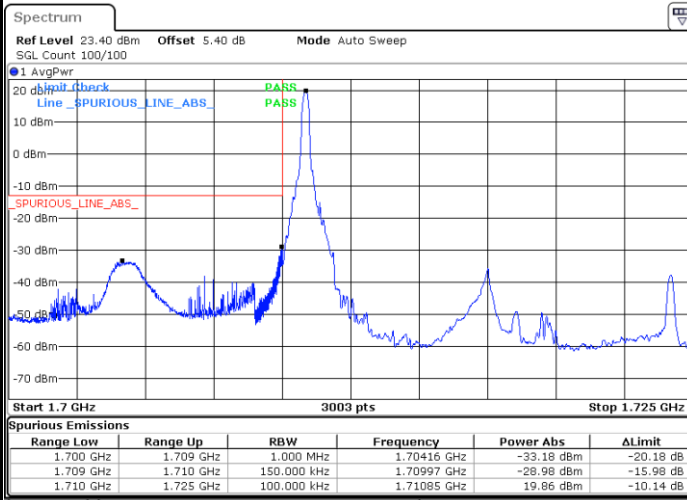


Date: 30.JAN.2021 19:03:57



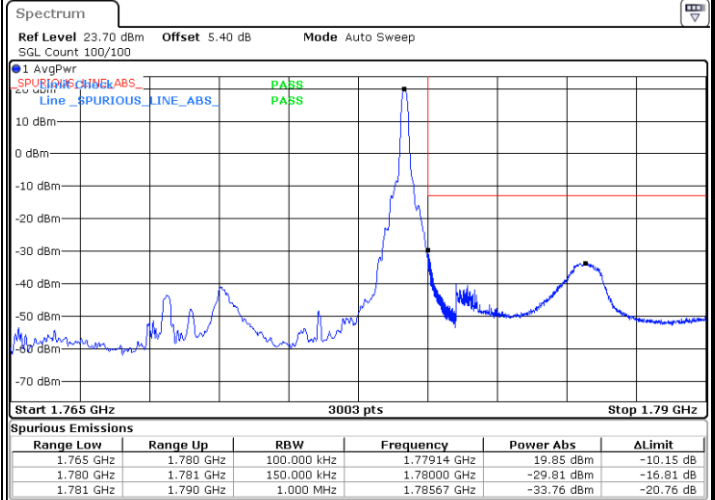
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



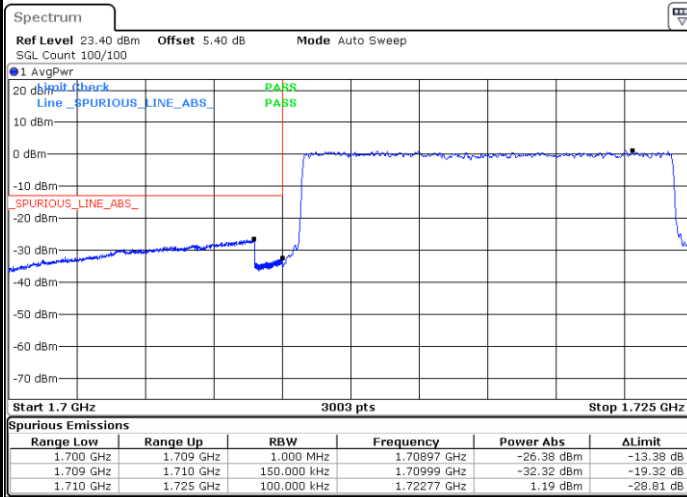
Date: 30.JAN.2021 18:59:48

Highest Band Edge / 1 RB



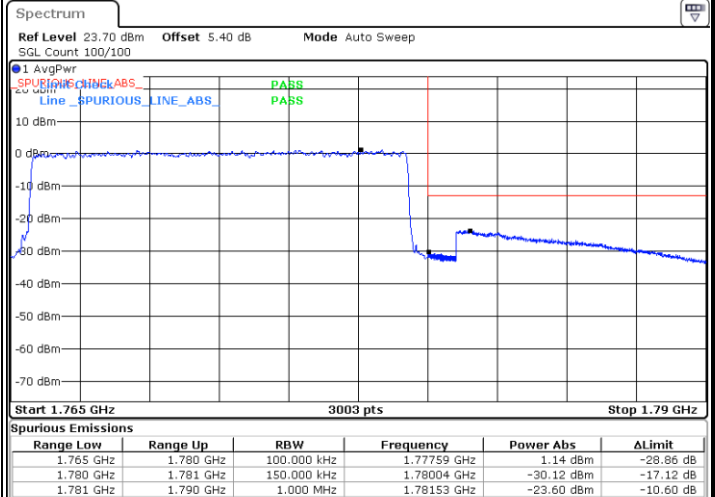
Date: 30.JAN.2021 19:05:05

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:56:53

Highest Band Edge / Full RB

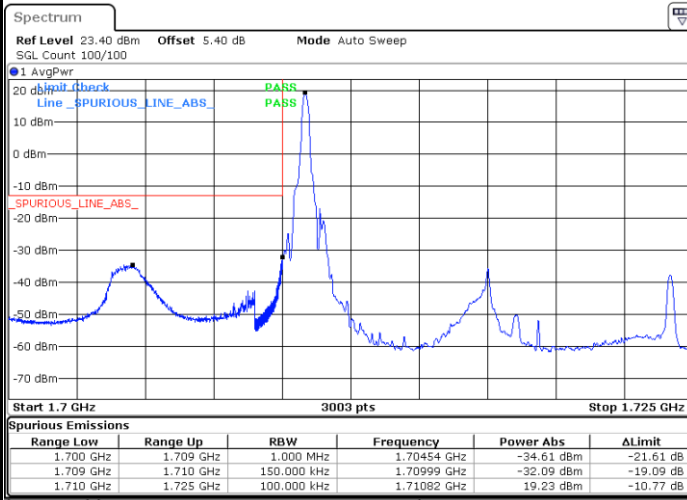


Date: 30.JAN.2021 19:04:14



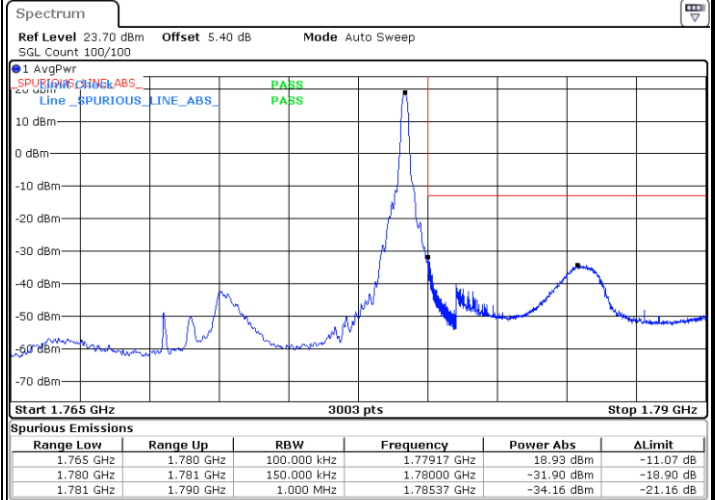
LTE Band 66 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



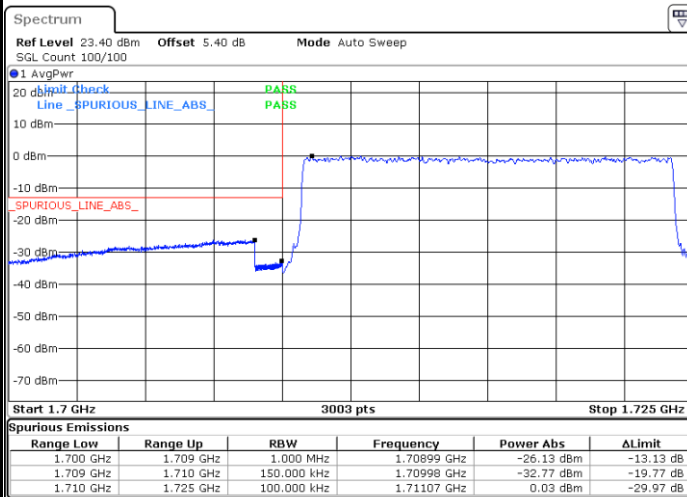
Date: 30.JAN.2021 18:59:09

Highest Band Edge / 1 RB



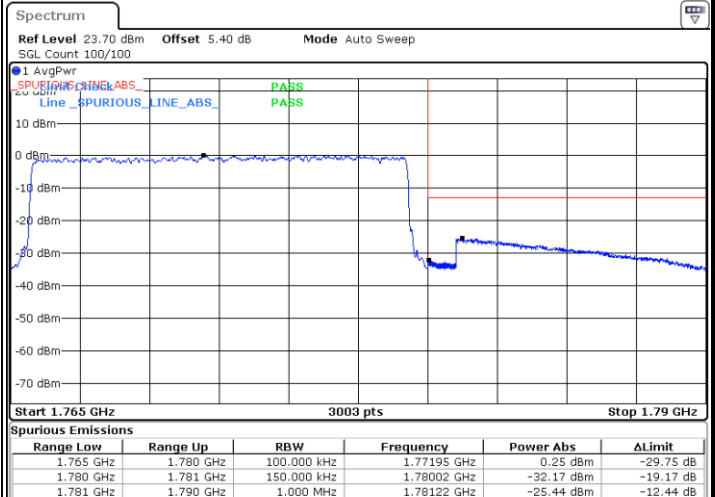
Date: 30.JAN.2021 19:04:50

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:57:13

Highest Band Edge / Full RB

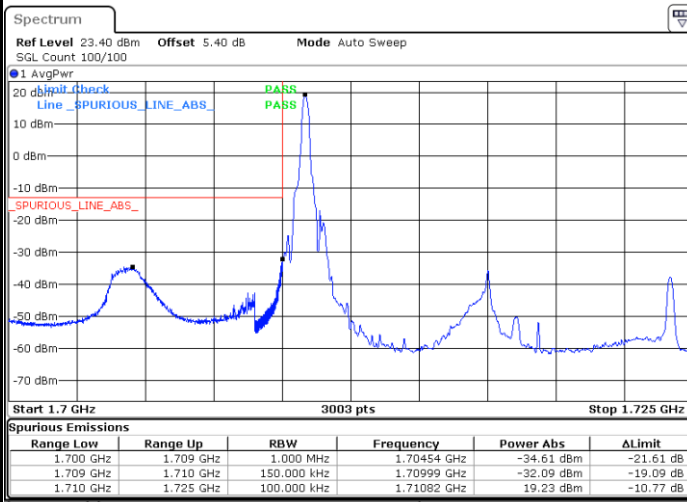


Date: 30.JAN.2021 19:04:28



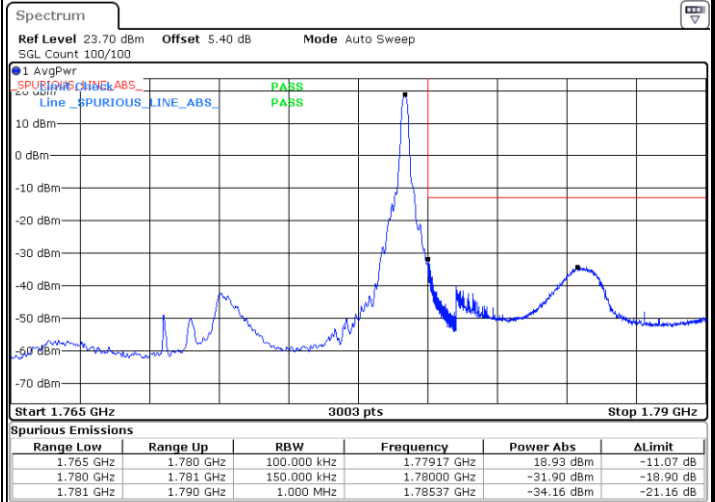
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / 1 RB



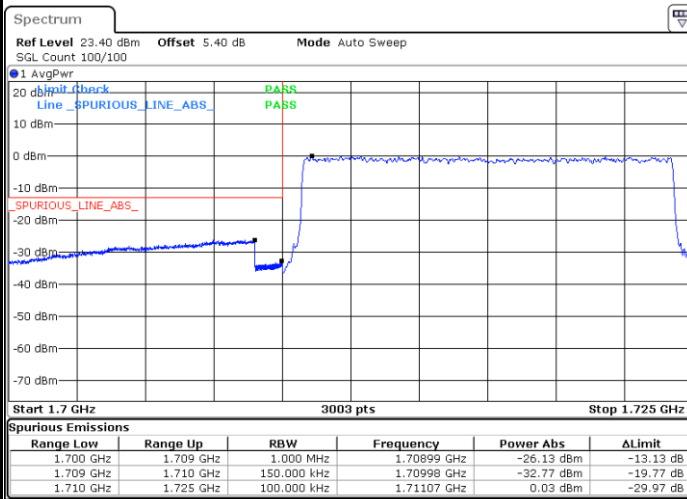
Date: 30.JAN.2021 18:59:09

Highest Band Edge / 1 RB



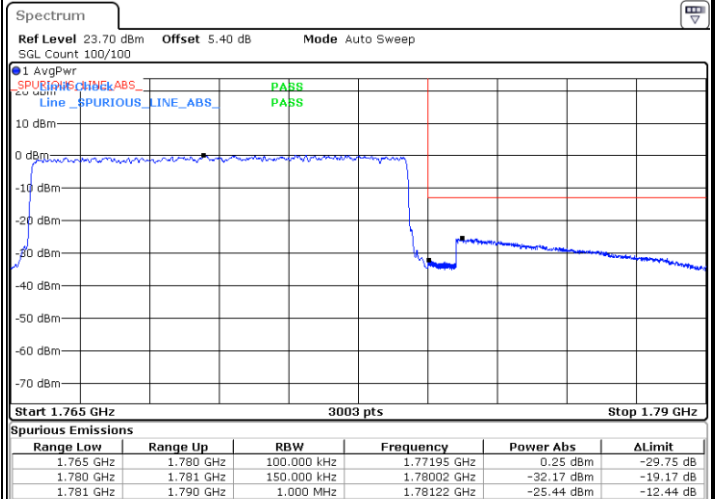
Date: 30.JAN.2021 19:04:50

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:57:13

Highest Band Edge / Full RB

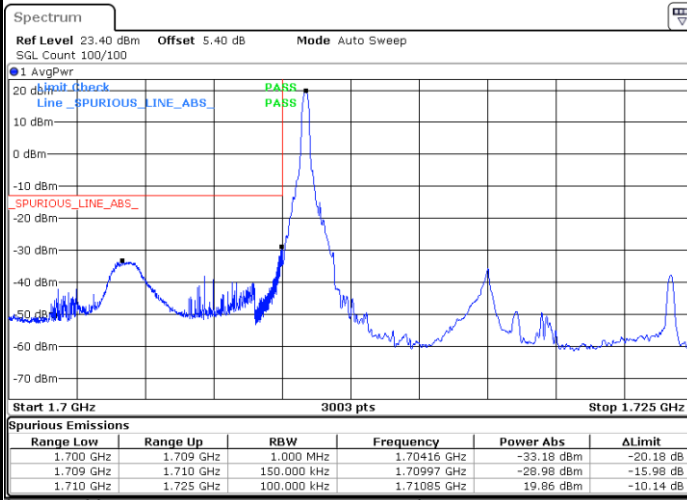


Date: 30.JAN.2021 19:04:28



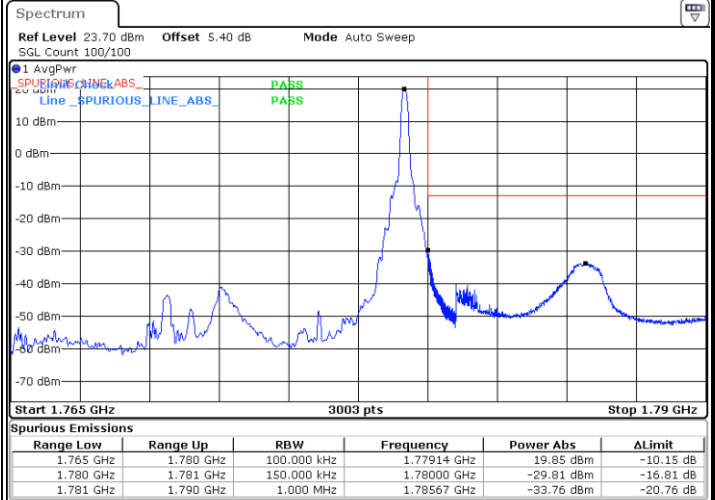
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



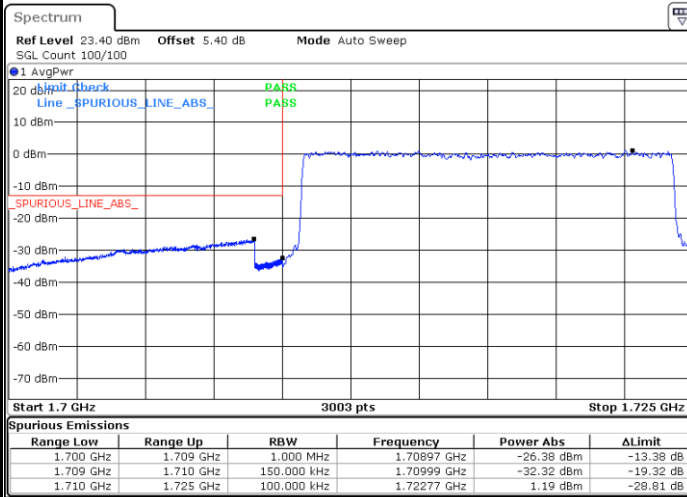
Date: 30.JAN.2021 18:59:48

Highest Band Edge / 1 RB



Date: 30.JAN.2021 19:05:05

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:56:53

Highest Band Edge / Full RB

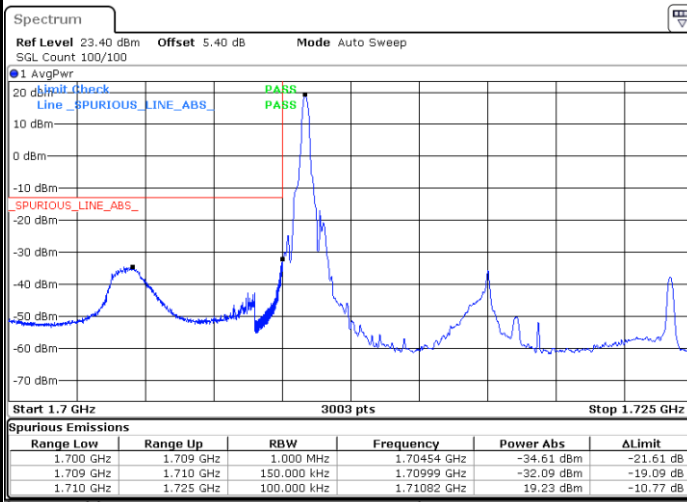


Date: 30.JAN.2021 19:04:14



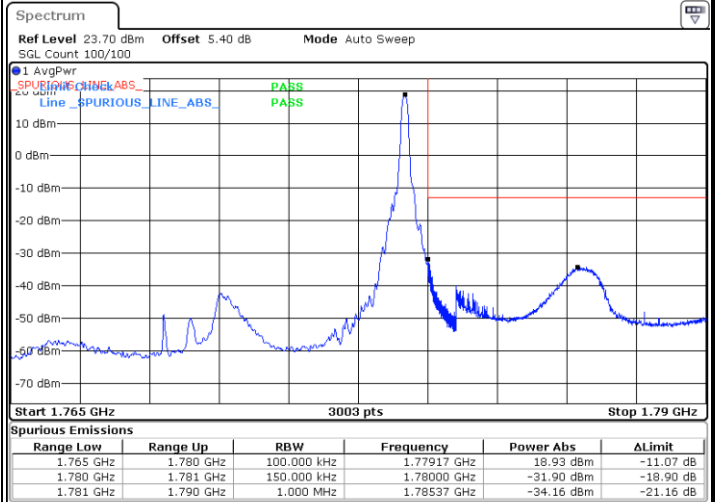
LTE Band 66 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



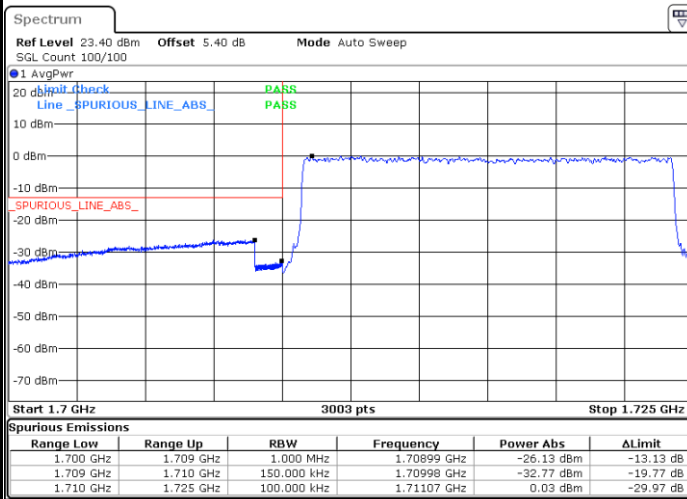
Date: 30.JAN.2021 18:59:09

Highest Band Edge / 1 RB



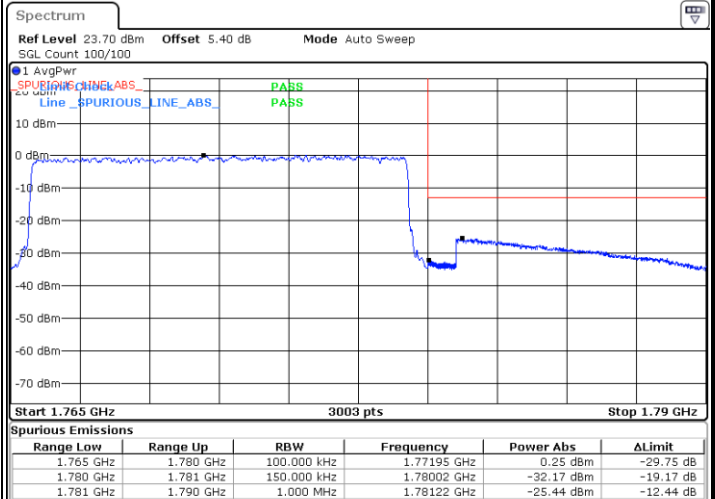
Date: 30.JAN.2021 19:04:50

Lowest Band Edge / Full RB



Date: 30.JAN.2021 18:57:13

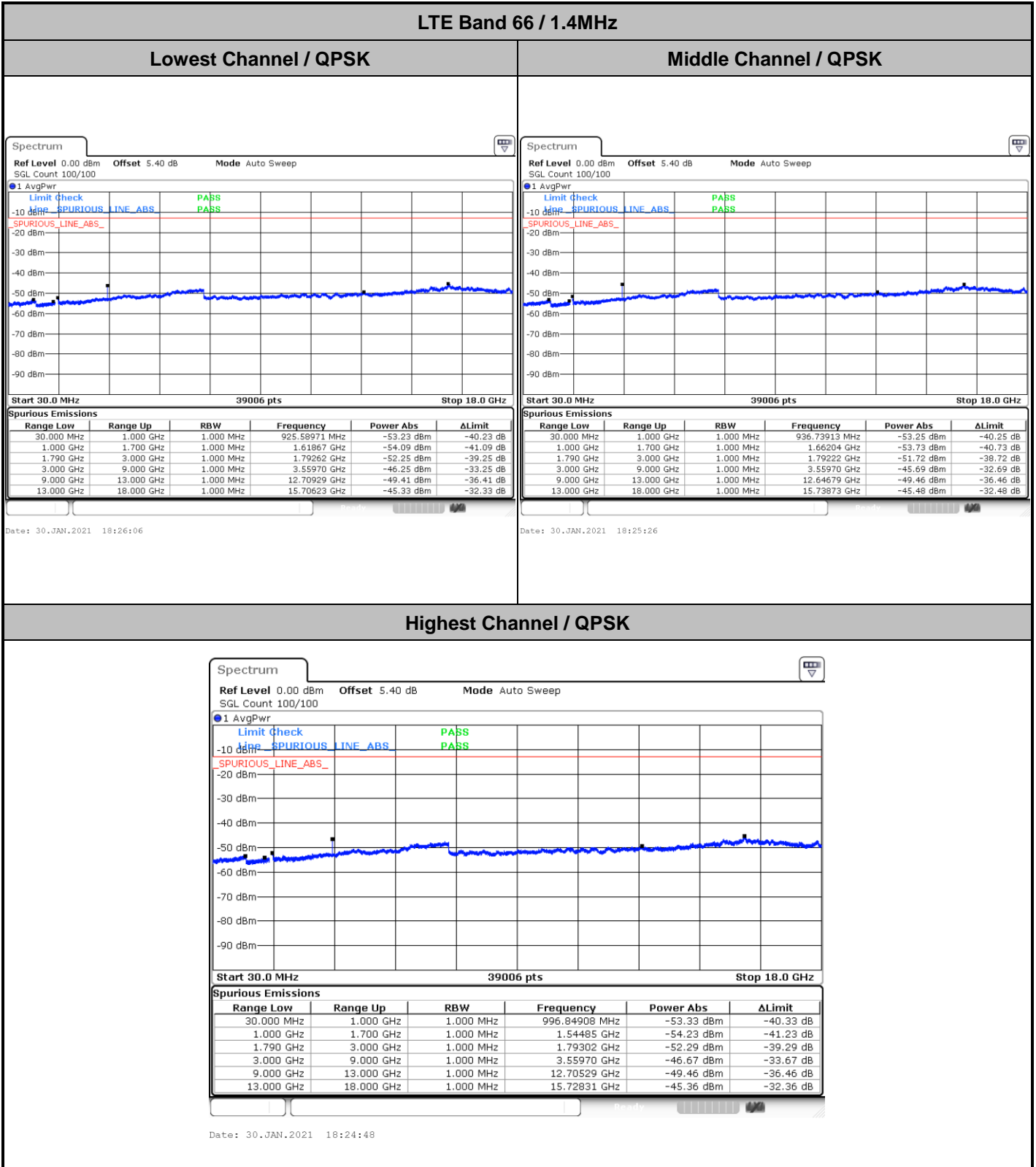
Highest Band Edge / Full RB



Date: 30.JAN.2021 19:04:28



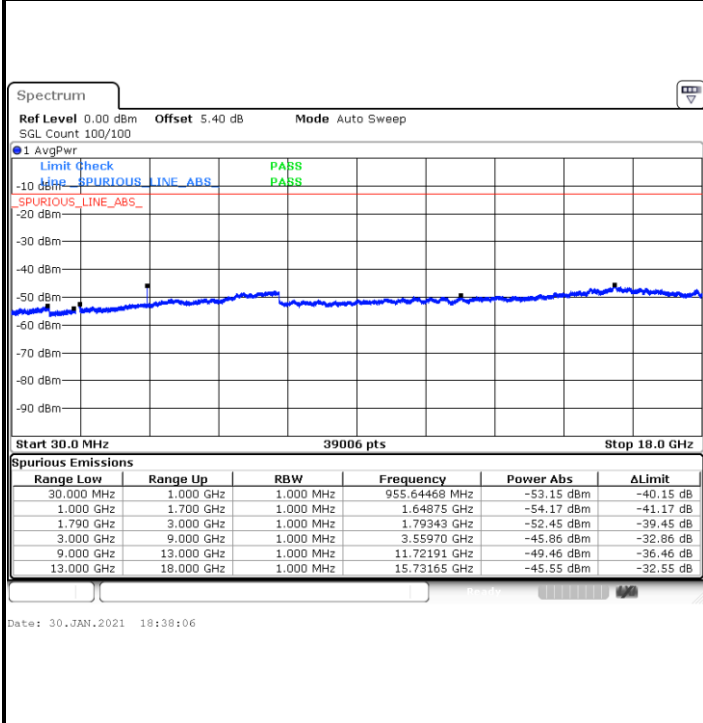
Conducted Spurious Emission



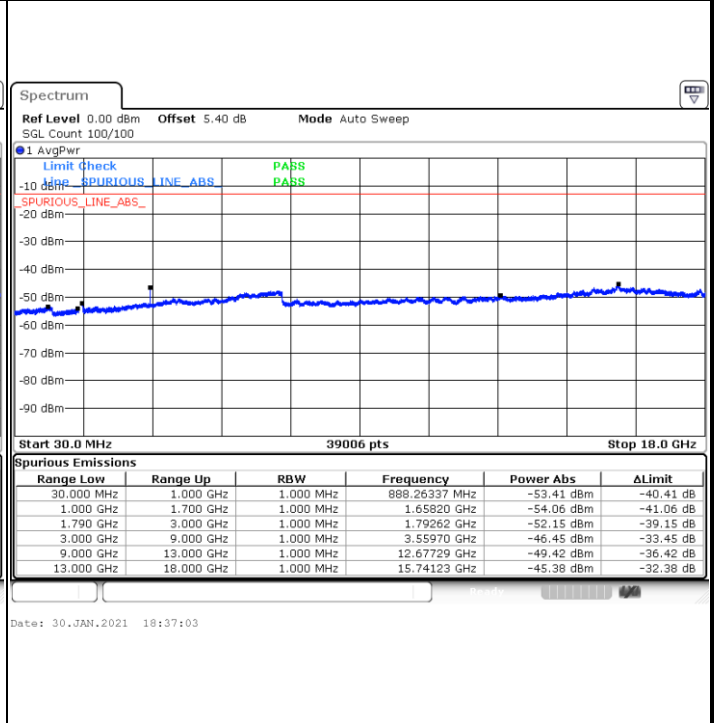


LTE Band 66 / 3MHz

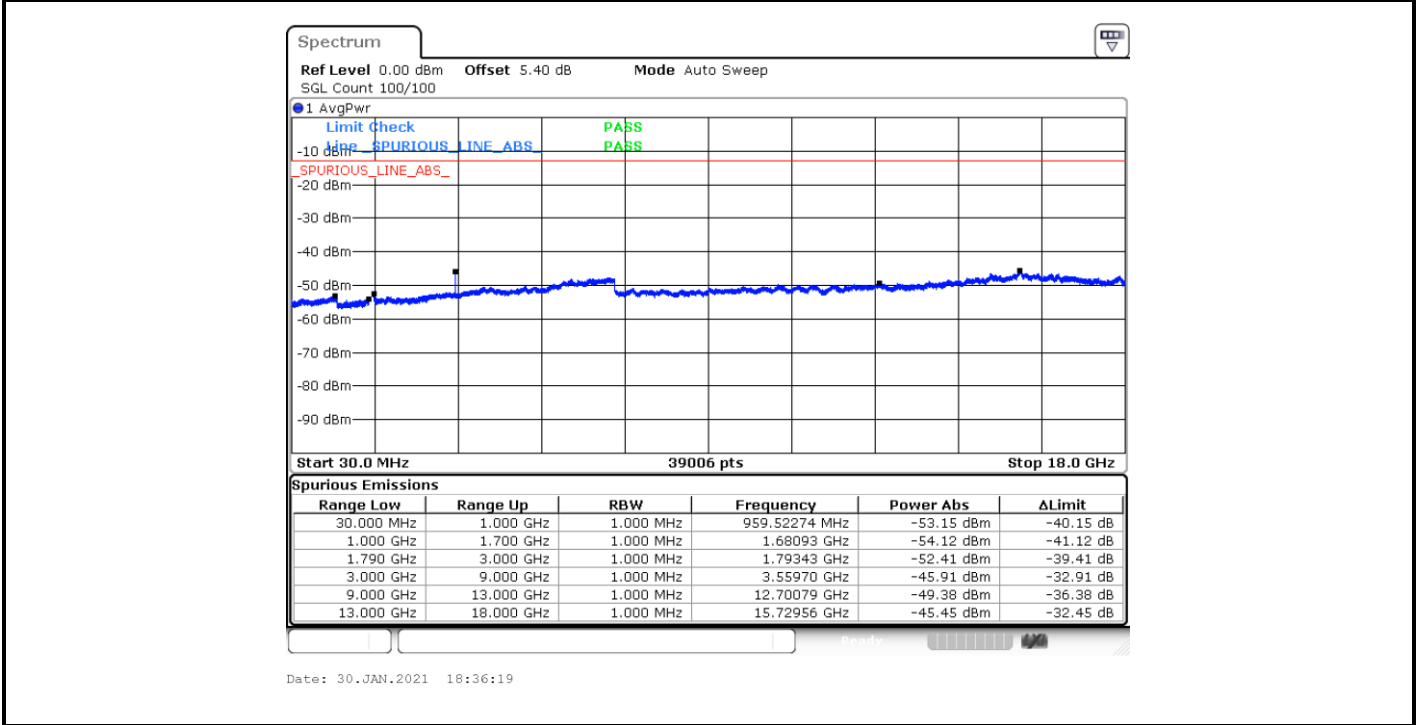
Lowest Channel / QPSK



Middle Channel / QPSK



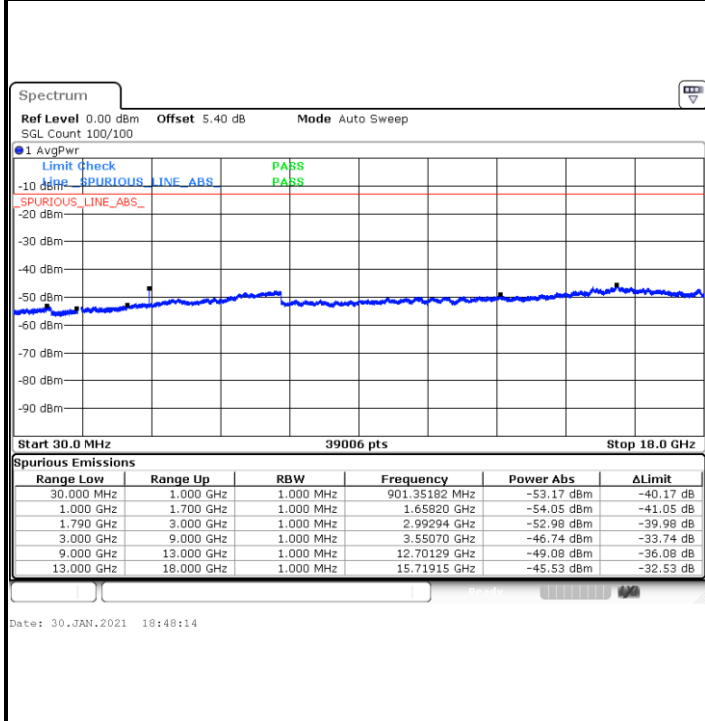
Highest Channel / QPSK



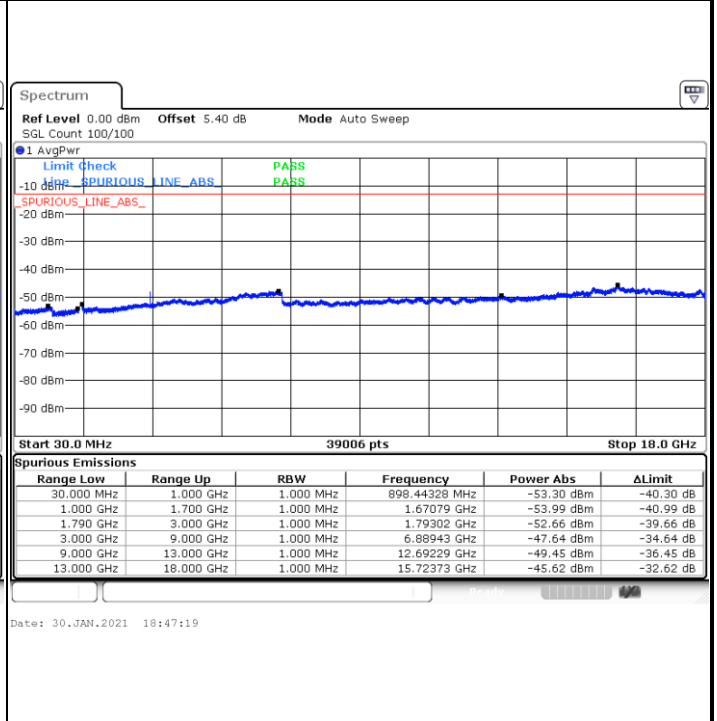


LTE Band 66 / 5MHz

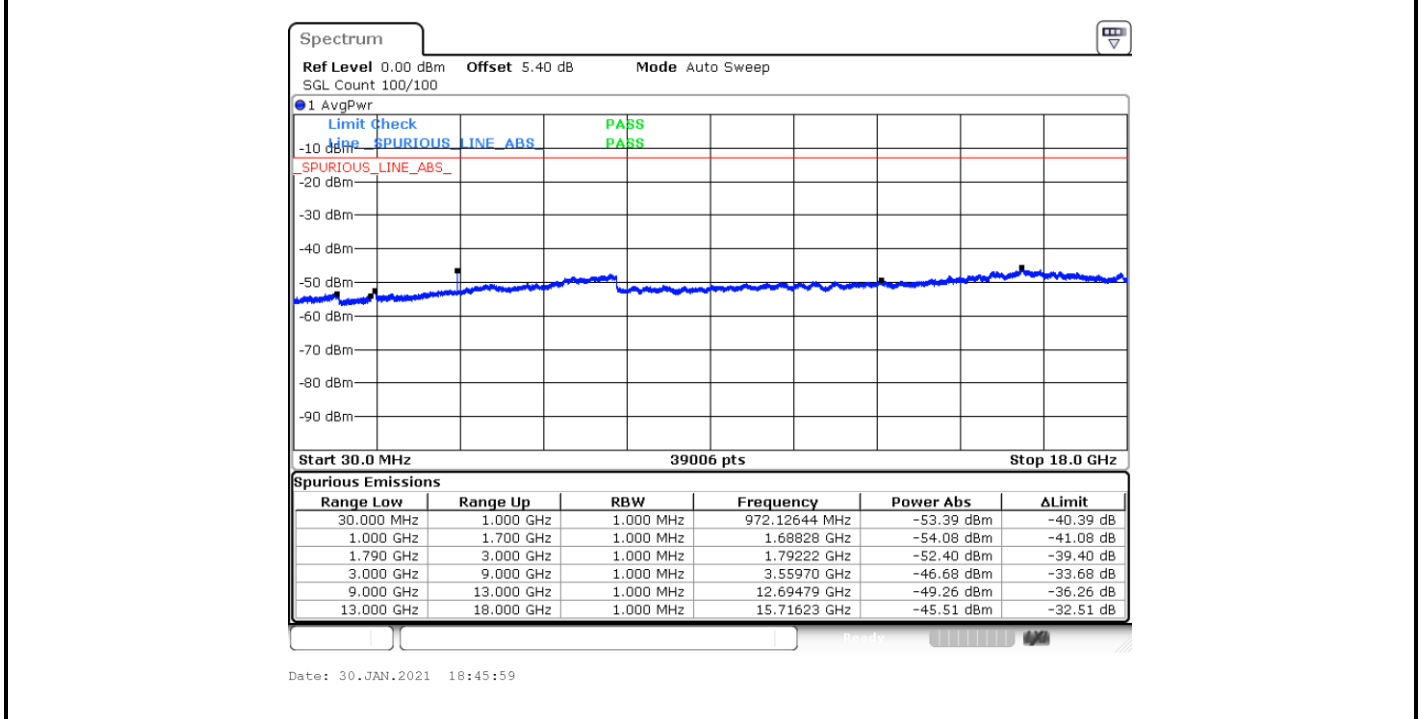
Lowest Channel / QPSK



Middle Channel / QPSK



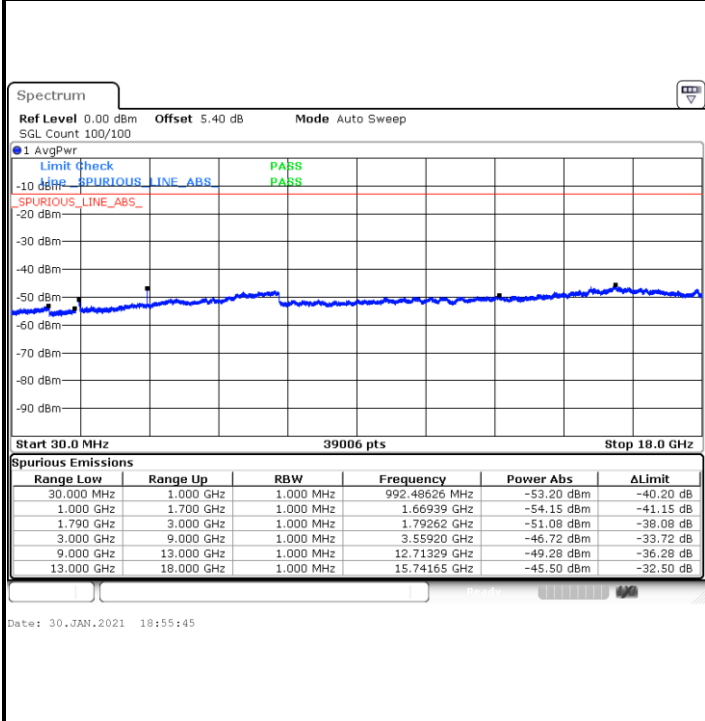
Highest Channel / QPSK



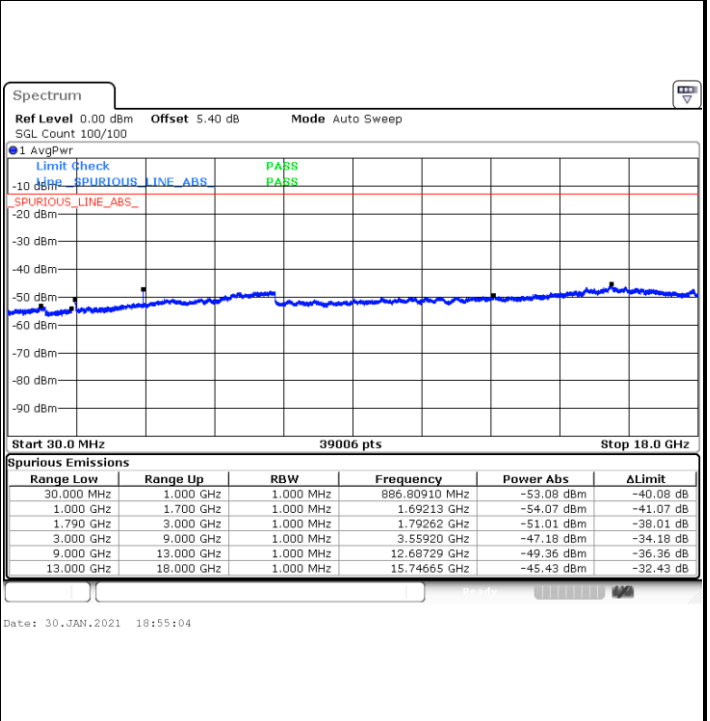


LTE Band 66 / 10MHz

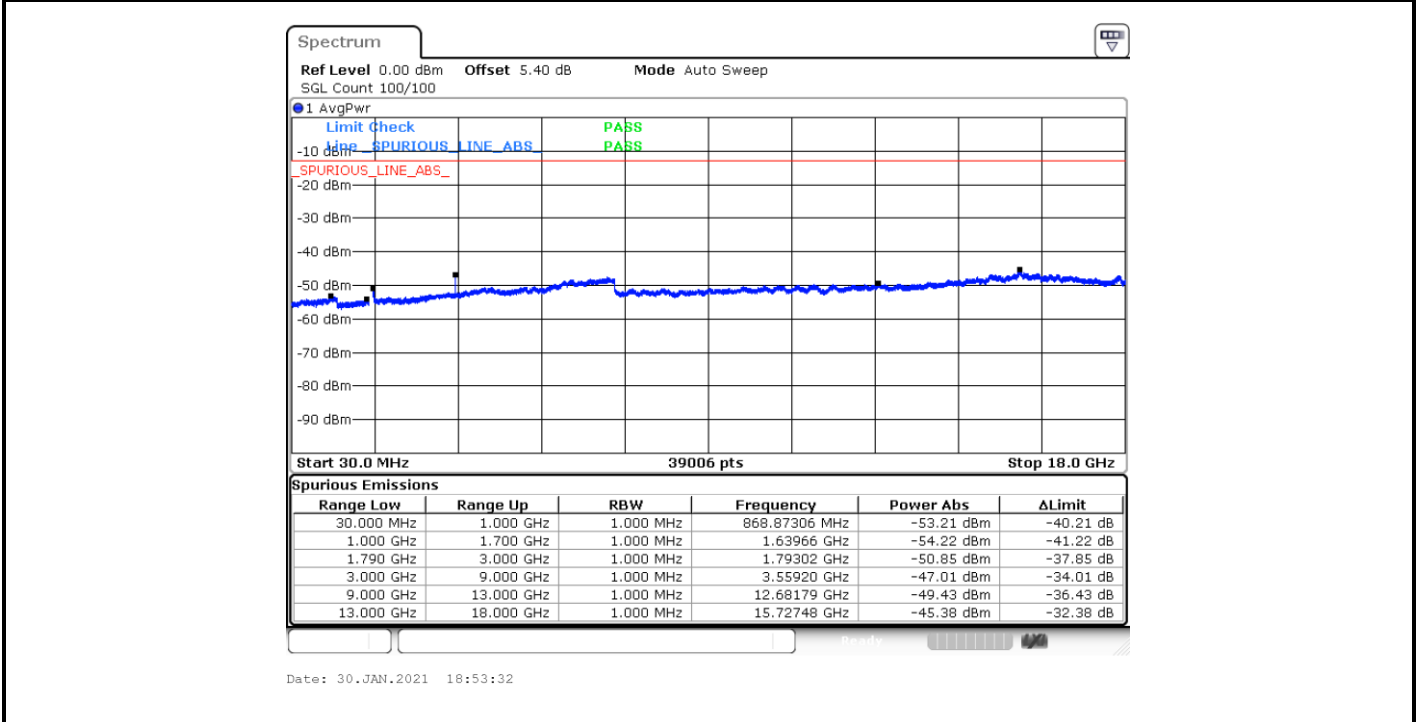
Lowest Channel / QPSK



Middle Channel / QPSK



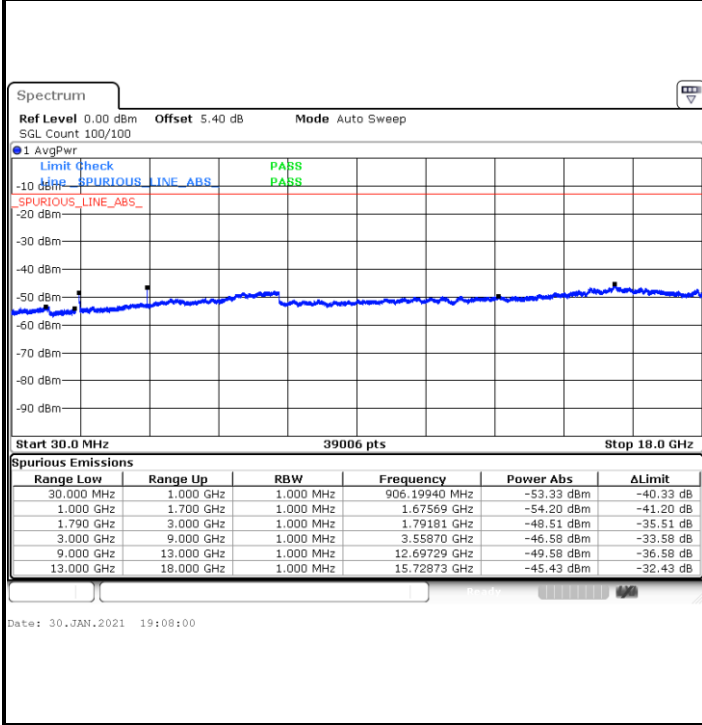
Highest Channel / QPSK



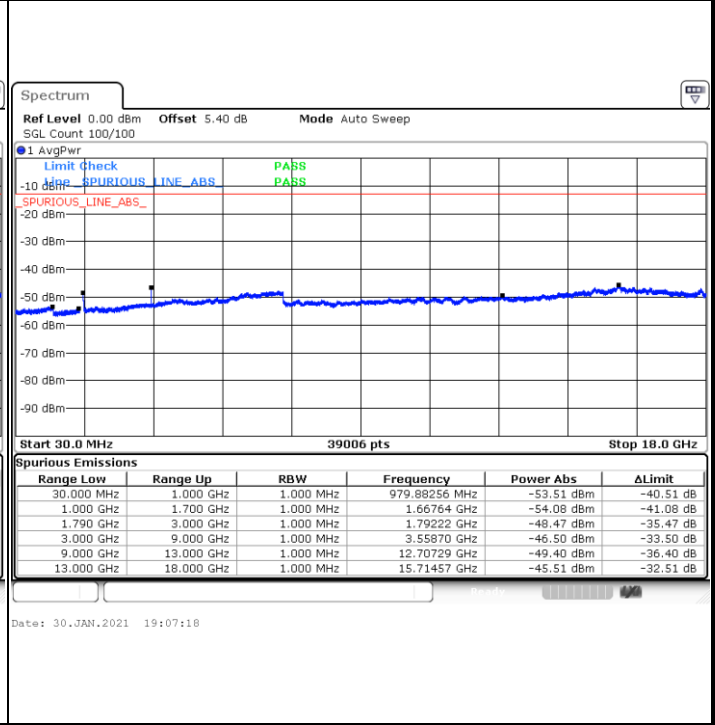


LTE Band 66 / 15MHz

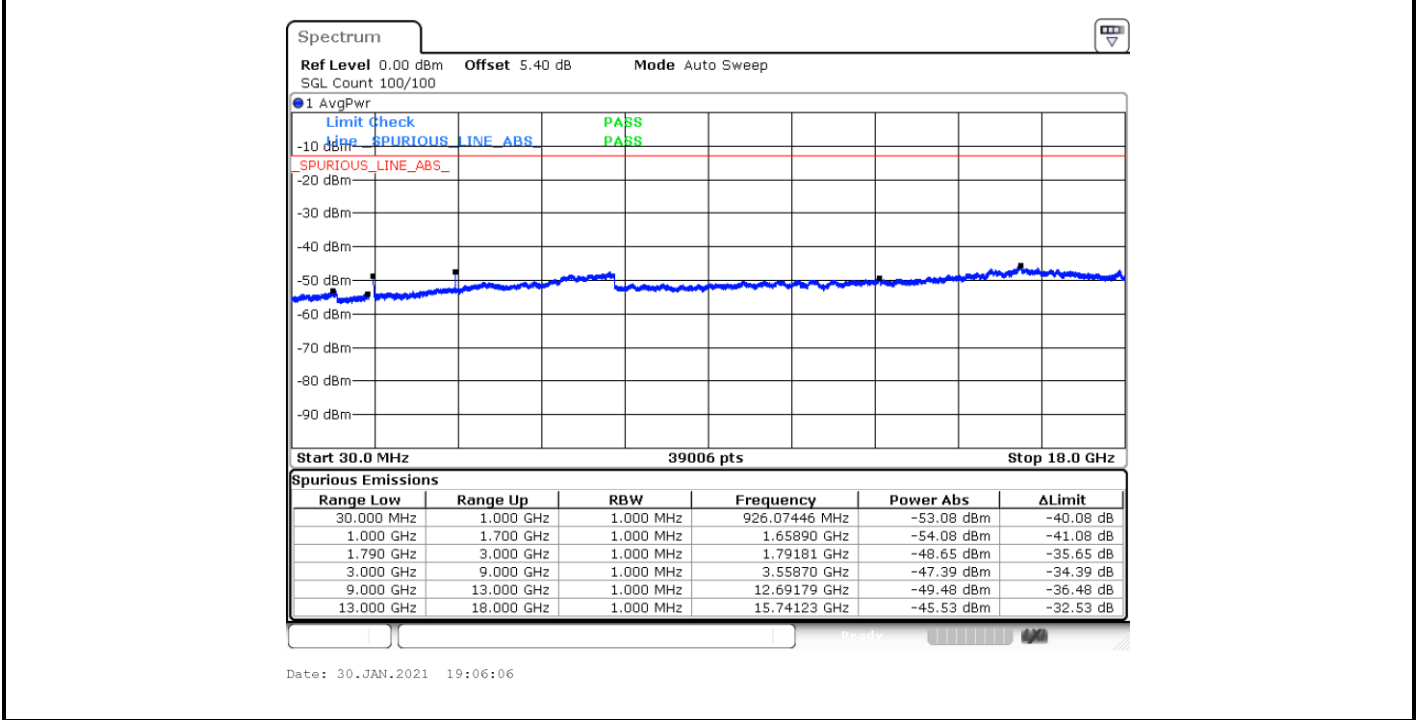
Lowest Channel / QPSK

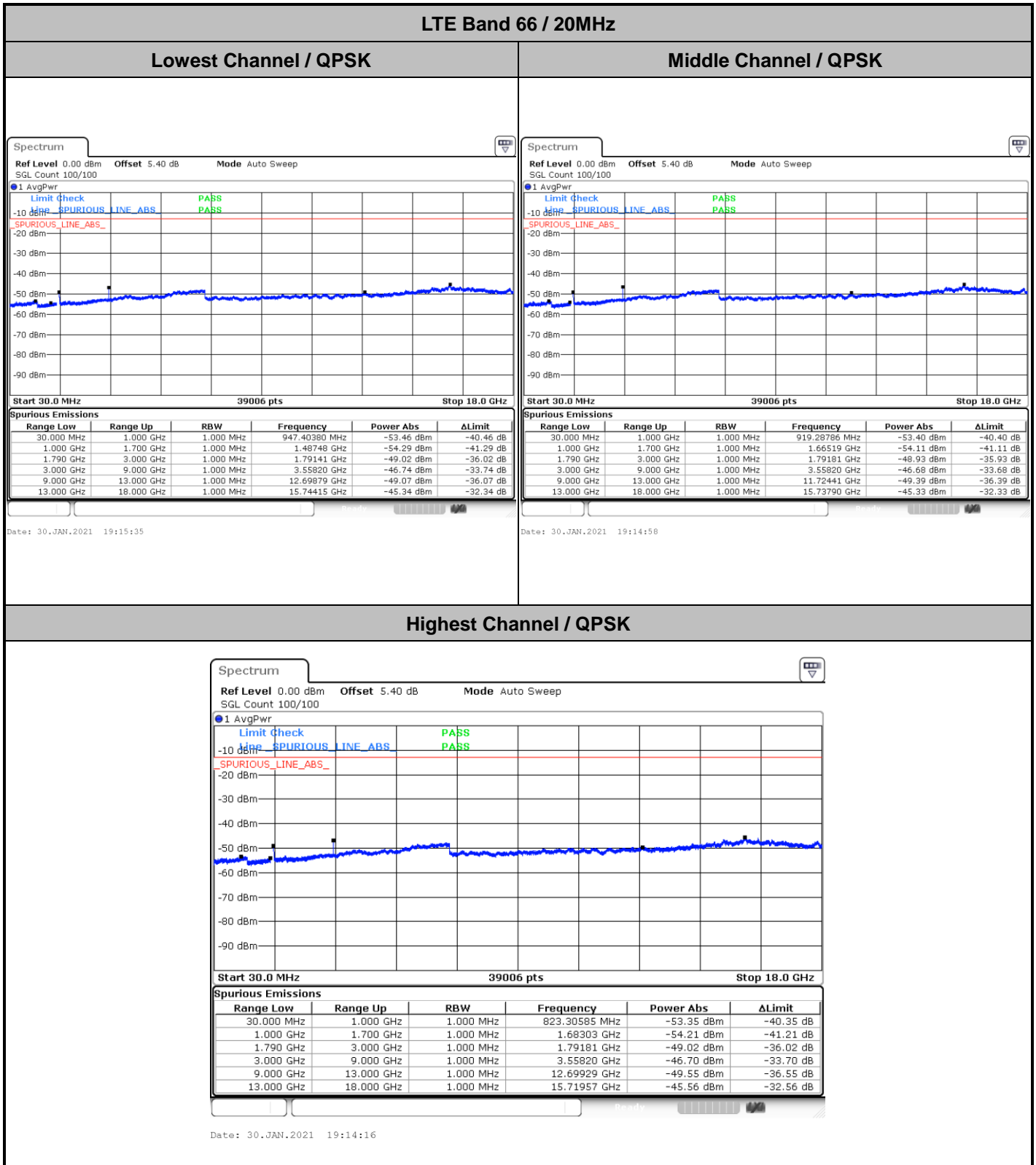


Middle Channel / QPSK



Highest Channel / QPSK







Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 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 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	-54.12	-13	-41.12	-66.38	2.64	14.90	H
	5613	-50.66	-13	-37.66	-62.52	2.94	14.80	H
	7488	-49.37	-13	-36.37	-59.14	3.39	13.16	H
	3741	-53.91	-13	-40.91	-66.17	2.64	14.90	V
	5613	-50.92	-13	-37.92	-62.78	2.94	14.80	V
	7488	-48.68	-13	-35.68	-58.45	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	-66.53	-13	-53.53	-73.50	1.58	10.70	H
	2110	-61.03	-13	-48.03	-69.28	2.102	12.50	H
	2812	-58.88	-13	-45.88	-67.77	2.856	13.90	H
	1406	-66.67	-13	-53.67	-73.64	1.58	10.70	V
	2110	-59.66	-13	-46.66	-67.91	2.10	12.50	V
	2812	-58.24	-13	-45.24	-67.13	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	-65.20	-42.15	-23.05	-67.83	1.09	5.87	H
	2340	-60.57	-13	-47.57	-62.97	1.37	5.92	H
	3120	-59.01	-13	-46.01	-62.90	1.64	7.68	H
	1560	-64.02	-42.15	-21.87	-66.65	1.09	5.87	V
	2340	-59.23	-13	-46.23	-61.63	1.37	5.92	V
	3120	-58.46	-13	-45.46	-62.35	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	-65.42	-13	-52.42	-68.05	1.09	5.87	H
	2332	-60.63	-13	-47.63	-63.03	1.37	5.92	H
	3108	-58.57	-13	-45.57	-62.46	1.64	7.68	H
	1556	-65.38	-13	-52.38	-68.01	1.09	5.87	V
	2332	-58.94	-13	-45.94	-61.34	1.37	5.92	V
	3108	-58.15	-13	-45.15	-62.04	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	-64.01	-13	-51.01	-70.98	1.58	10.70	H
	2490	-60.00	-13	-47.00	-68.25	2.102	12.50	H
	3318	-58.00	-13	-45.00	-66.89	2.856	13.90	H
	1660	-63.71	-13	-50.71	-70.68	1.58	10.70	V
	2490	-58.91	-13	-45.91	-67.16	2.10	12.50	V
	3318	-57.95	-13	-44.95	-66.84	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	-56.62	-13	-43.62	-67.36	2.604	13.34	H
	5208	-51.24	-13	-38.24	-61.75	3.011	13.52	H
	6948	-49.09	-13	-36.09	-59.29	3.271	13.47	H
	3471	-56.22	-13	-43.22	-66.96	2.604	13.34	V
	5208	-50.73	-13	-37.73	-61.24	3.011	13.52	V
	6948	-49.29	-13	-36.29	-59.49	3.271	13.47	V

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