

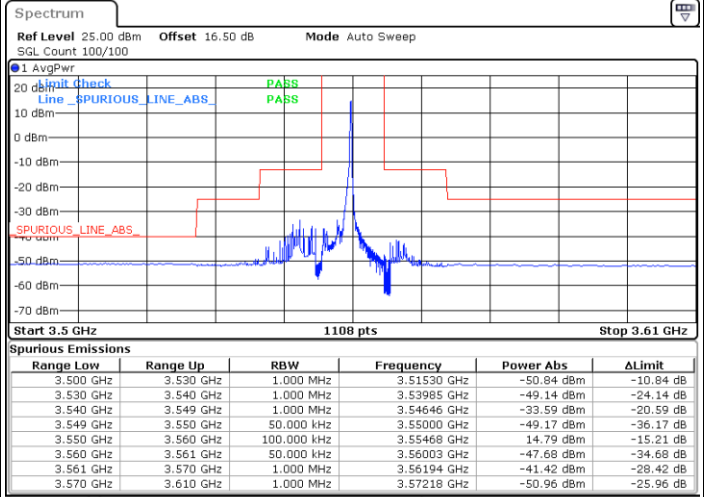
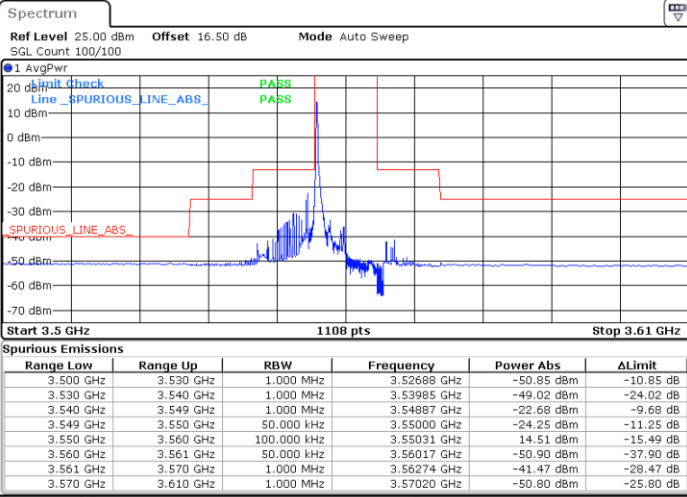


LTE Band 48 / 5MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

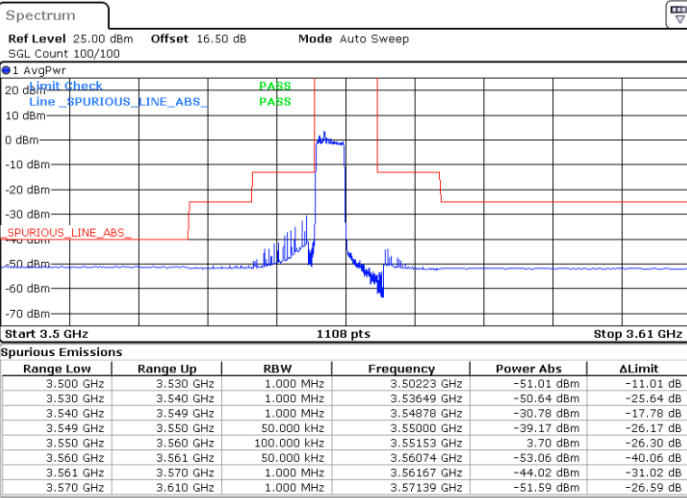


Date: 20.JAN.2022 09:35:33

Date: 20.JAN.2022 09:54:20

Lowest Channel / FullIRB

N/A



Date: 20.JAN.2022 09:45:25

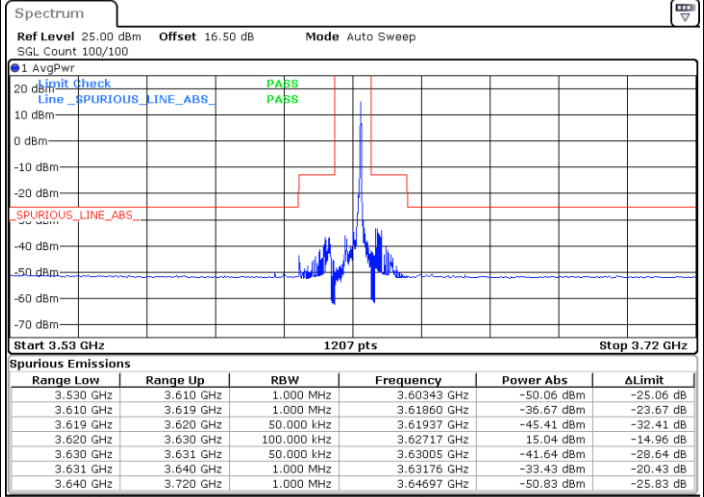
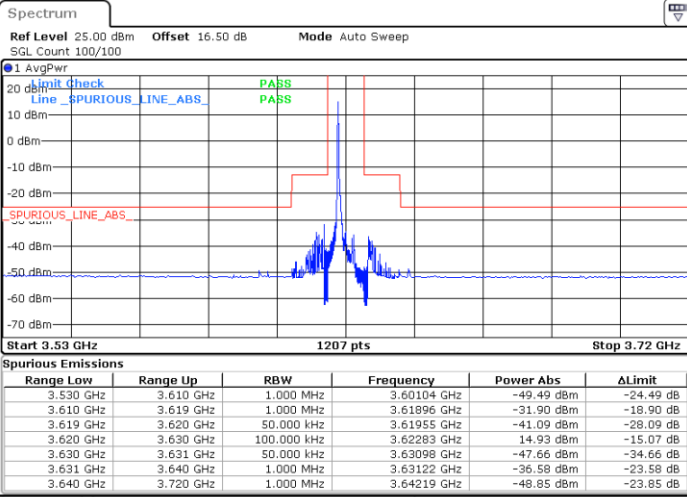


LTE Band 48 / 5MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

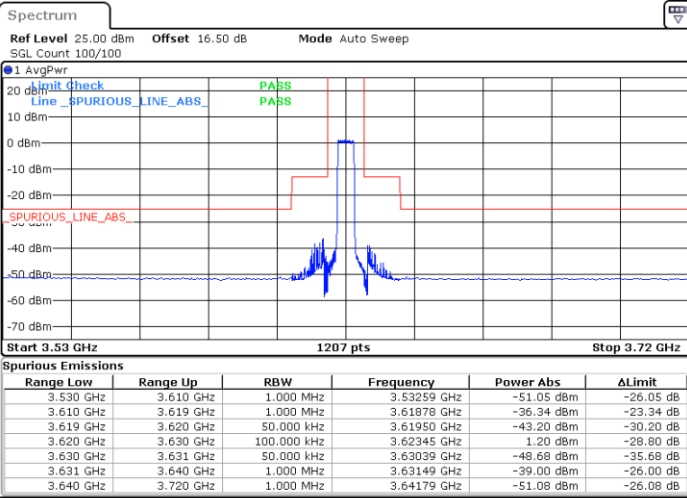


Date: 20.JAN.2022 09:38:10

Date: 20.JAN.2022 09:55:51

Middle Channel / FullIRB

N/A



Date: 20.JAN.2022 09:51:28

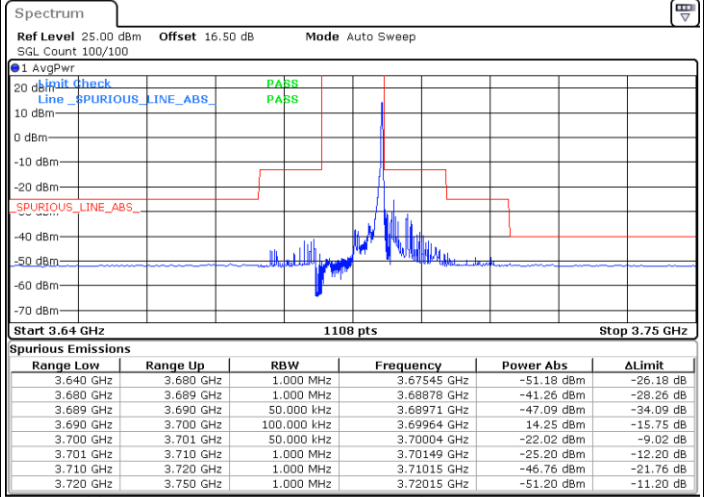
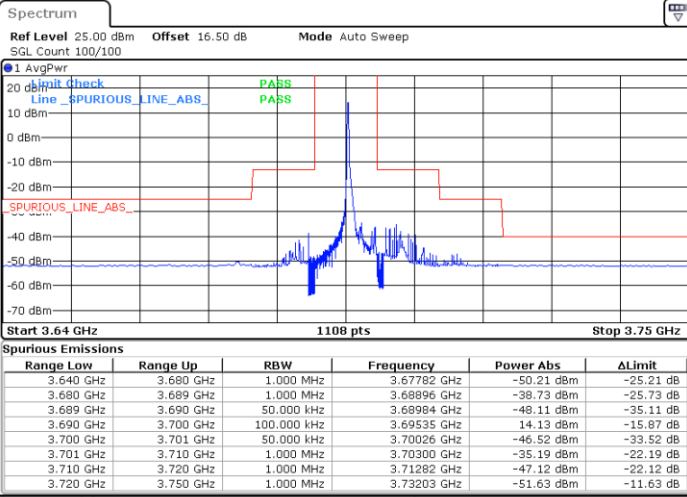


LTE Band 48 / 5MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

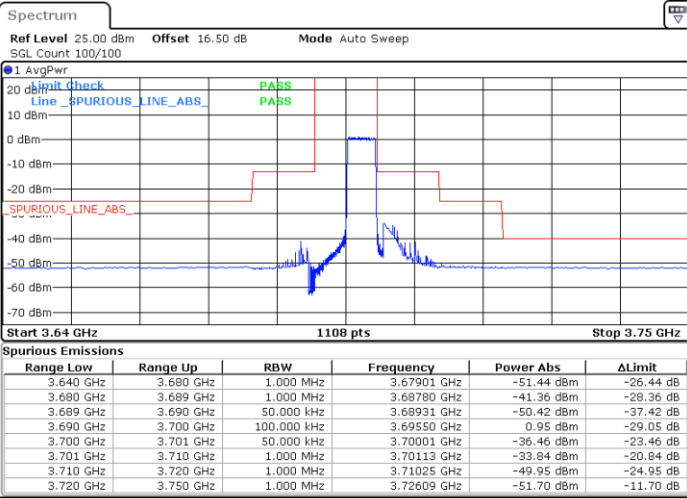


Date: 20.JAN.2022 09:47:49

Date: 20.JAN.2022 10:01:09

Highest Channel / FullIRB

N/A



Date: 20.JAN.2022 09:52:35

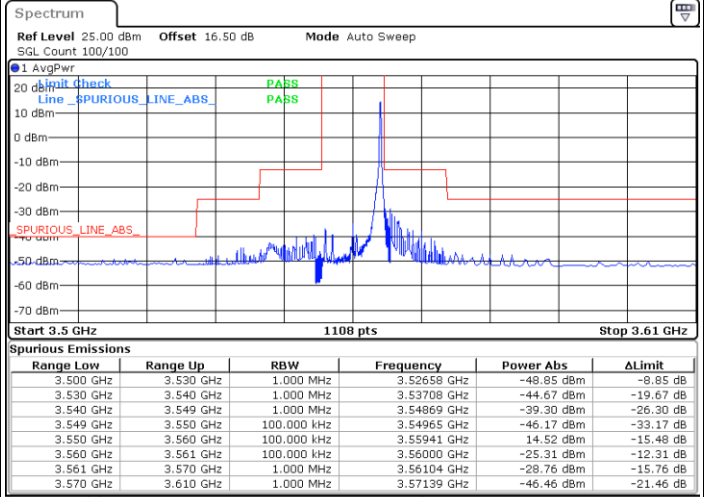
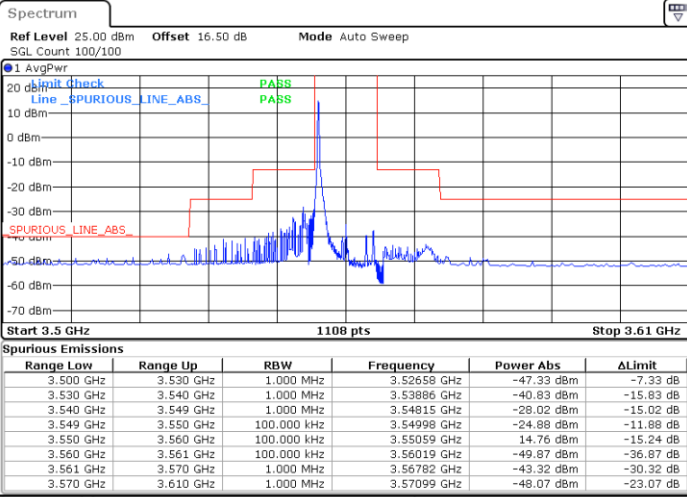


LTE Band 48 / 10MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

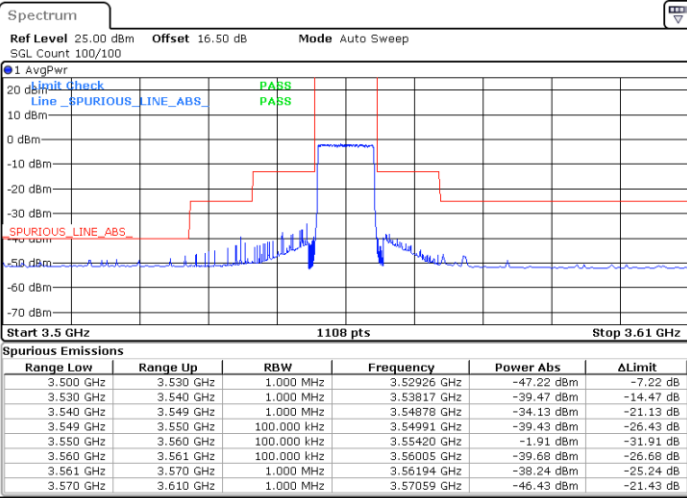


Date: 20.JAN.2022 10:06:06

Date: 20.JAN.2022 10:43:29

Lowest Channel / FullIRB

N/A



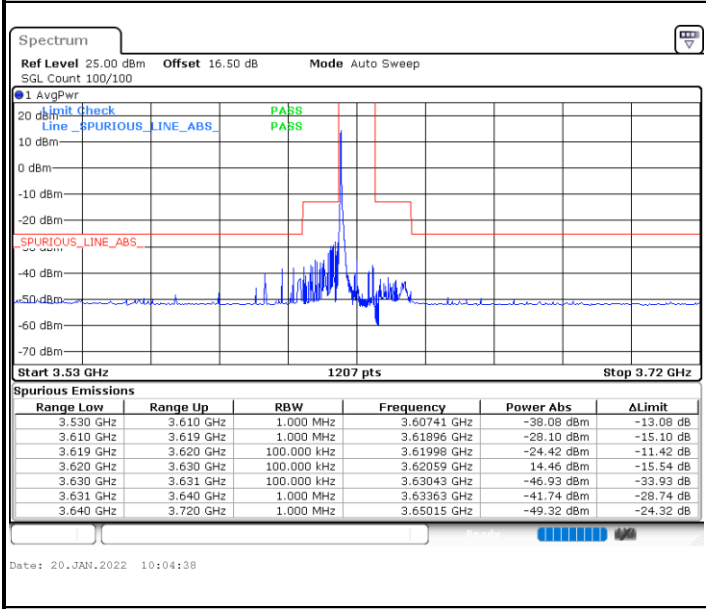
Date: 20.JAN.2022 10:09:29



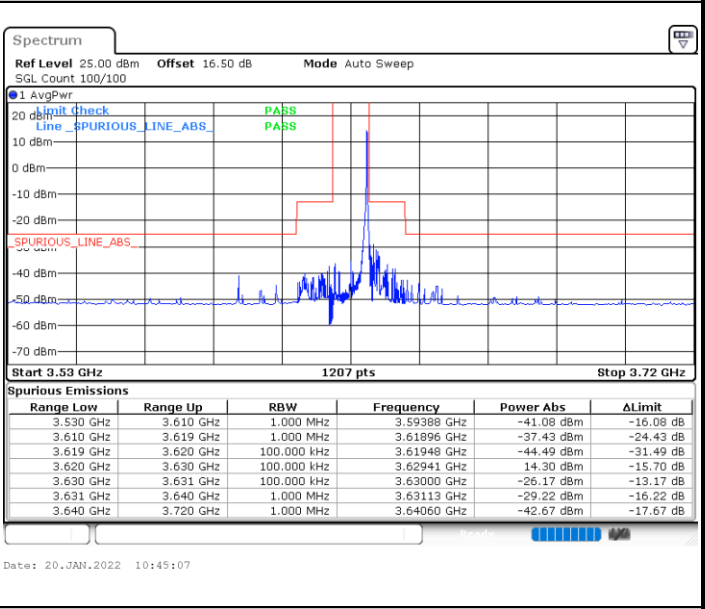
LTE Band 48 / 10MHz

256QAM

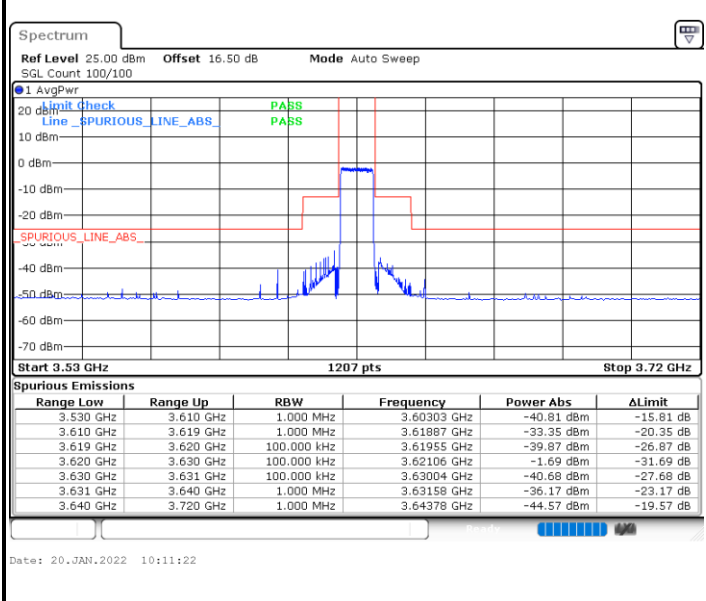
MiddleChannel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullIRB



N/A

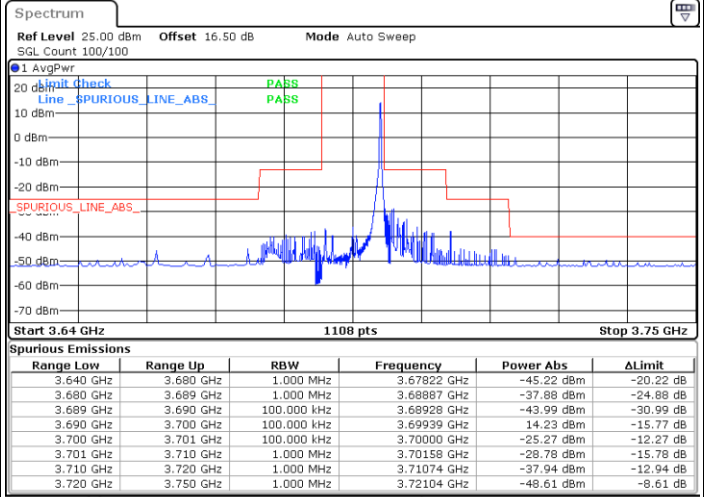
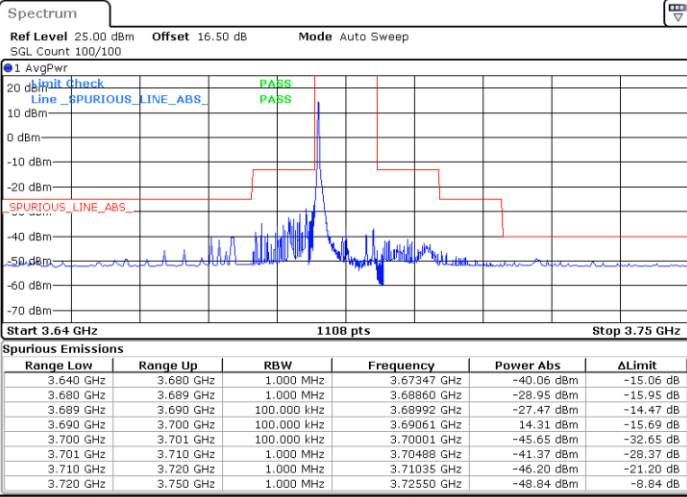


LTE Band 48 / 10MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

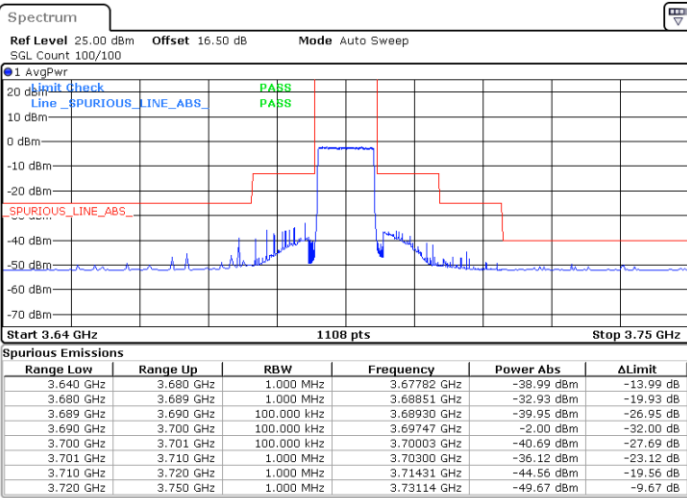


Date: 20.JAN.2022 10:07:51

Date: 20.JAN.2022 10:57:37

Highest Channel / FullIRB

N/A



Date: 20.JAN.2022 10:14:47

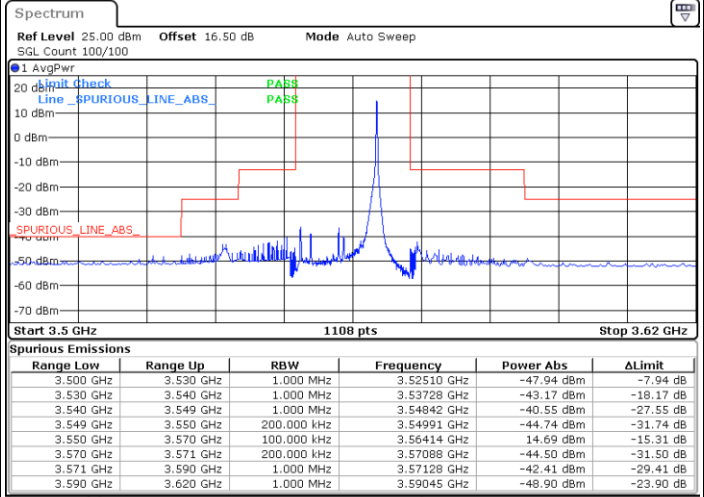
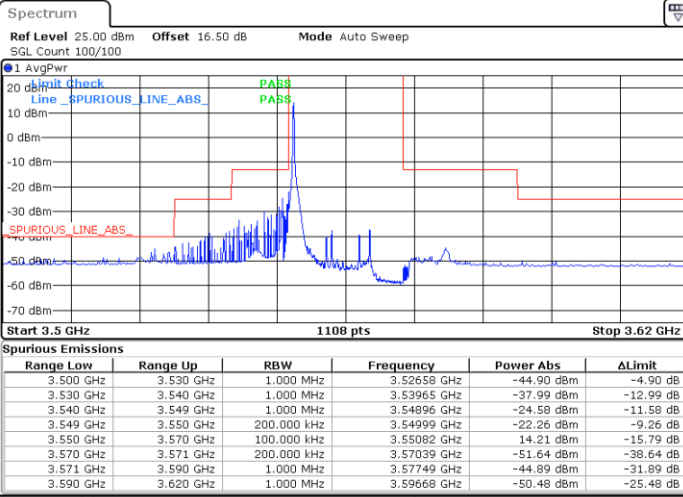


LTE Band 48 / 15MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

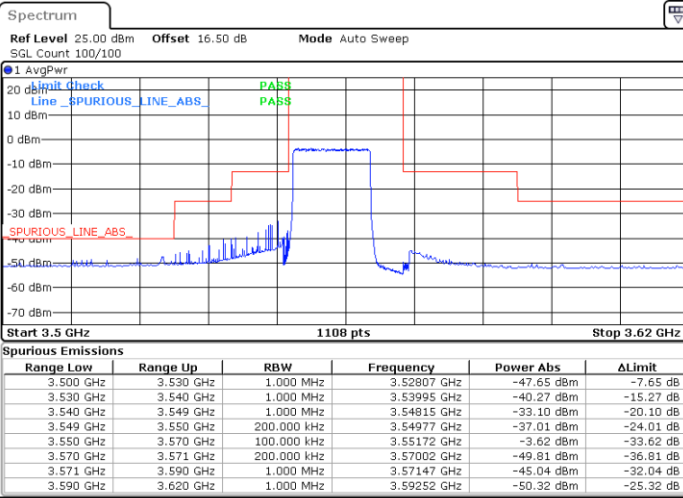


Date: 20.JAN.2022 10:59:24

Date: 20.JAN.2022 11:25:38

Lowest Channel / FullIRB

N/A



Date: 20.JAN.2022 11:21:02

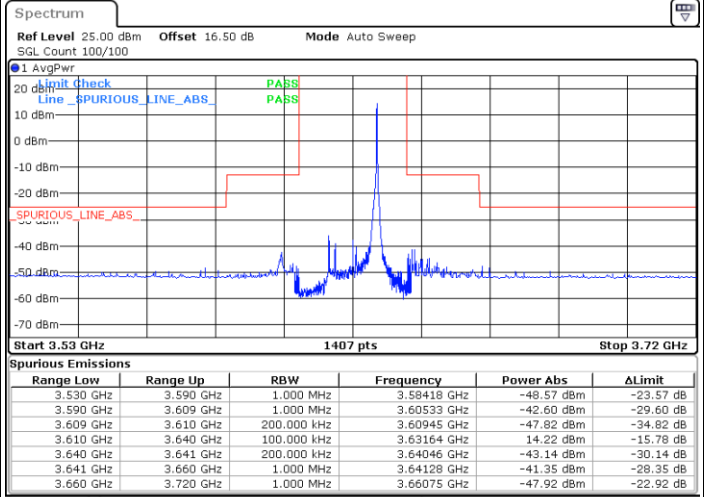
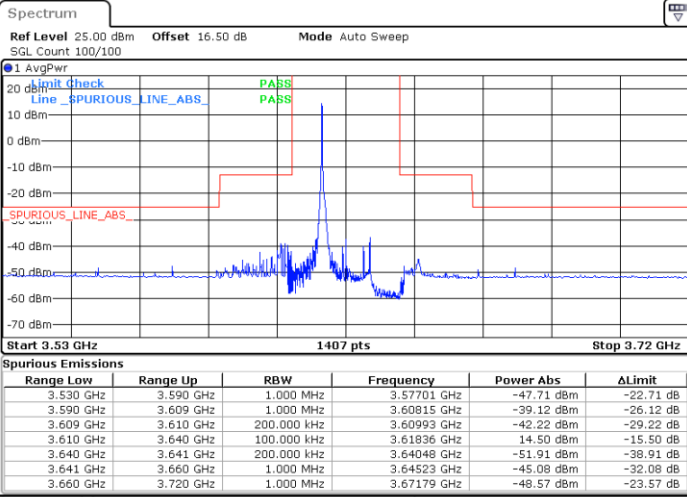


LTE Band 48 / 15MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

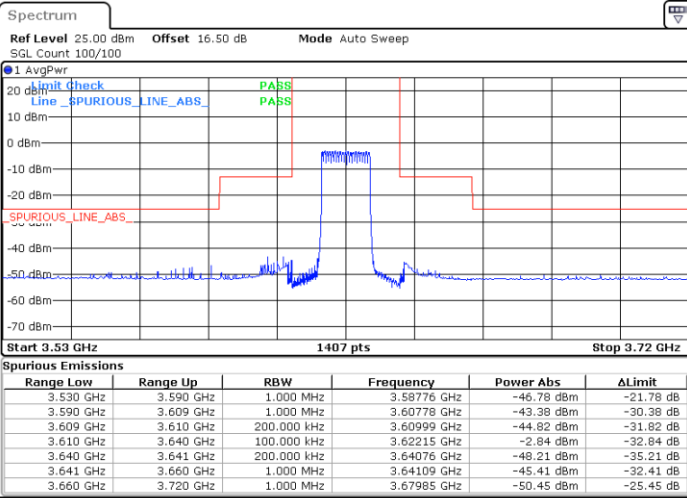


Date: 20.JAN.2022 11:00:52

Date: 20.JAN.2022 11:28:45

Middle Channel / FullIRB

N/A



Date: 20.JAN.2022 11:22:58



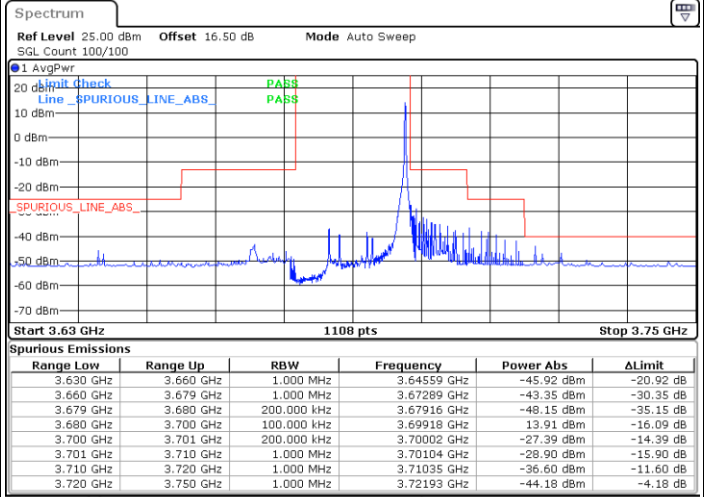
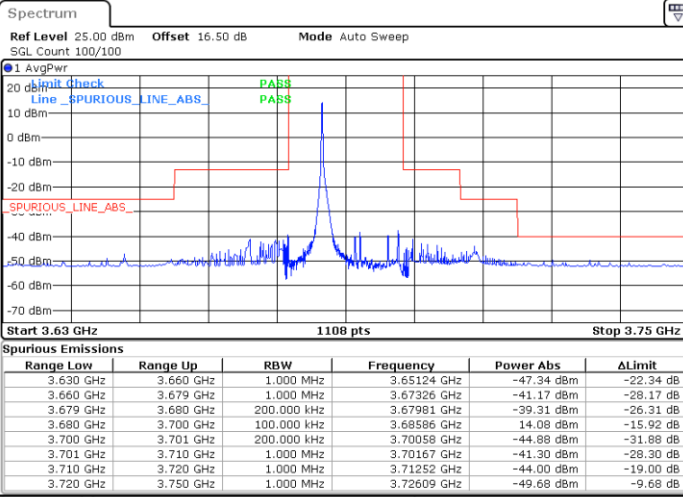


LTE Band 48 / 15MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

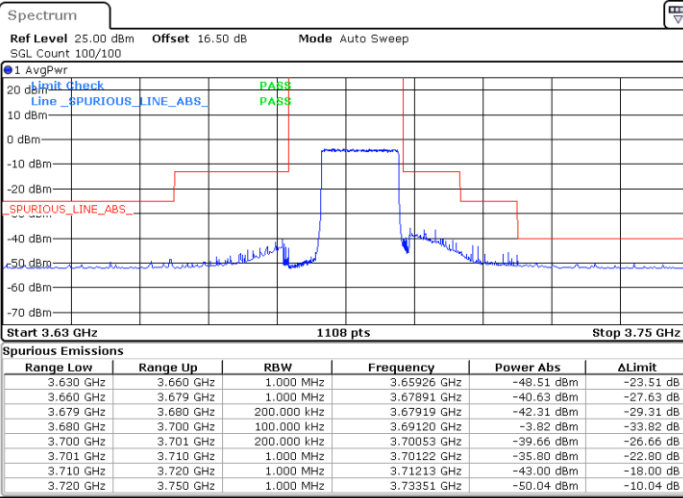


Date: 20.JAN.2022 11:02:40

Date: 20.JAN.2022 11:29:37

Highest Channel / FullIRB

N/A



Date: 20.JAN.2022 11:23:58

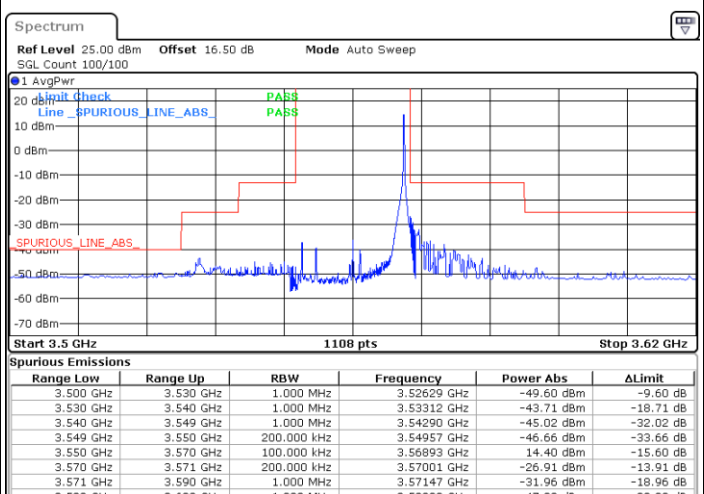
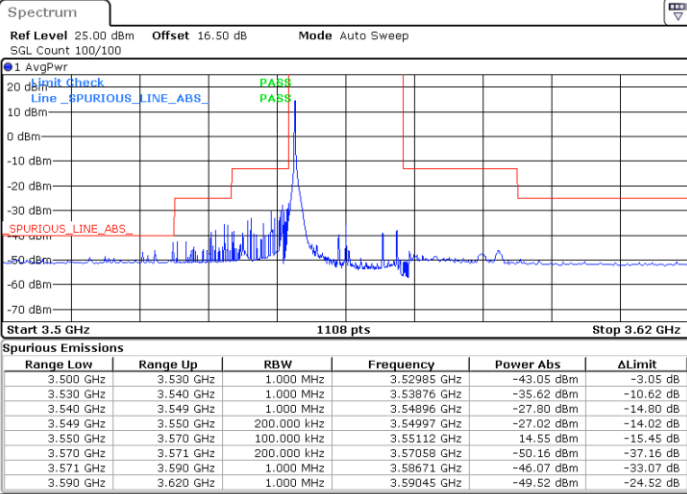


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

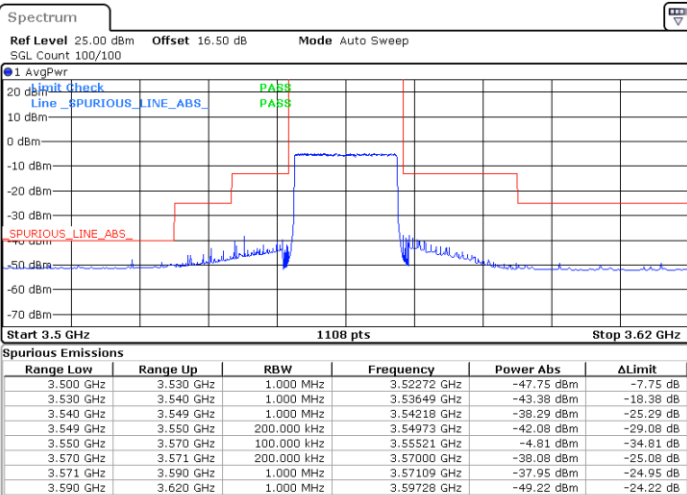


Date: 27.JAN.2022 12:18:51

Date: 20.JAN.2022 11:43:33

Lowest Channel / FullIRB

N/A



Date: 20.JAN.2022 11:32:12

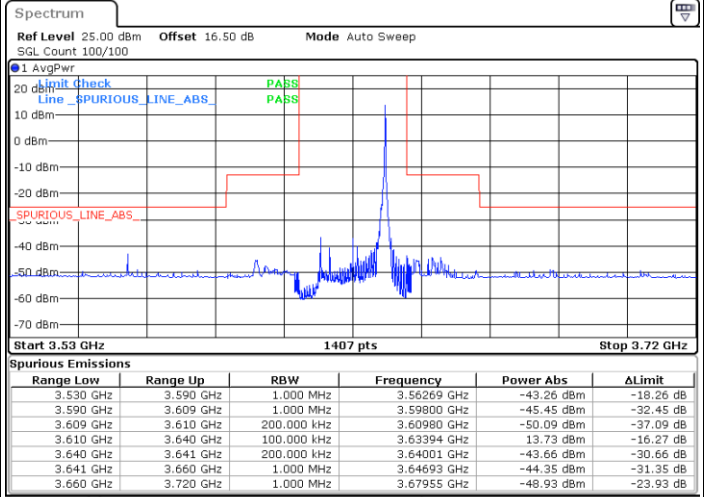
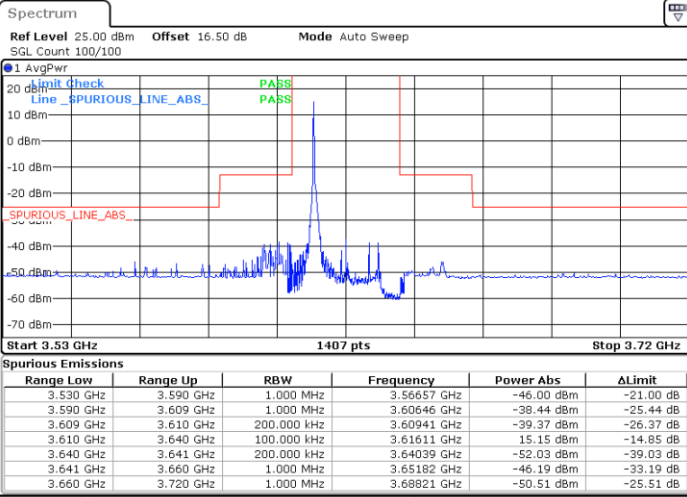


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

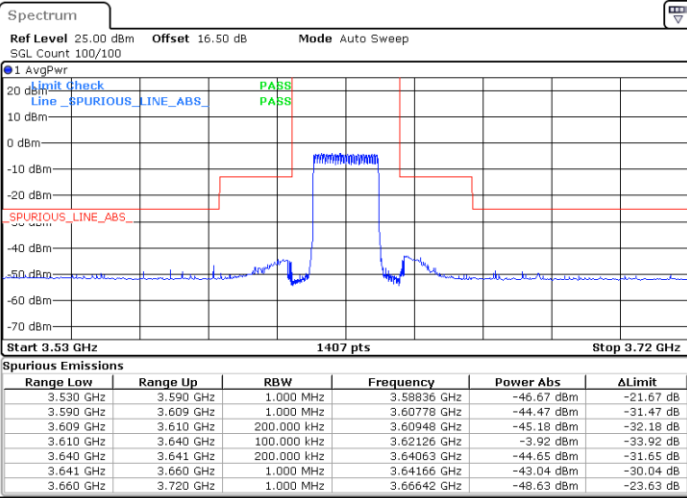


Date: 20.JAN.2022 11:40:20

Date: 20.JAN.2022 11:44:36

Middle Channel / FullIRB

N/A



Date: 20.JAN.2022 11:34:39

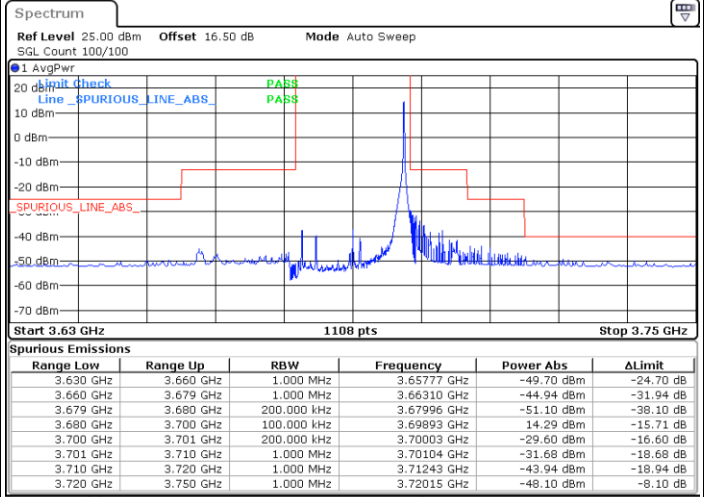
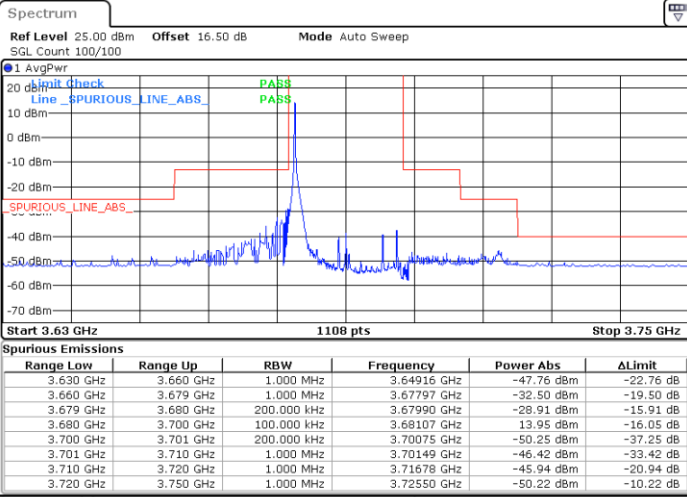


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

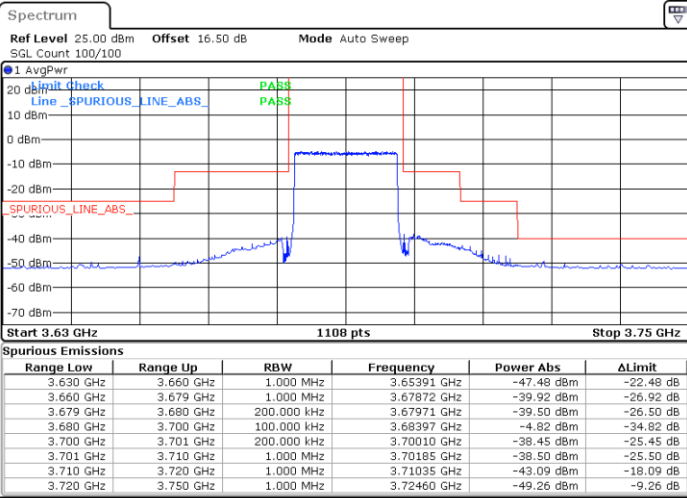


Date: 20.JAN.2022 11:42:10

Date: 20.JAN.2022 11:46:21

Highest Channel / FullIRB

N/A



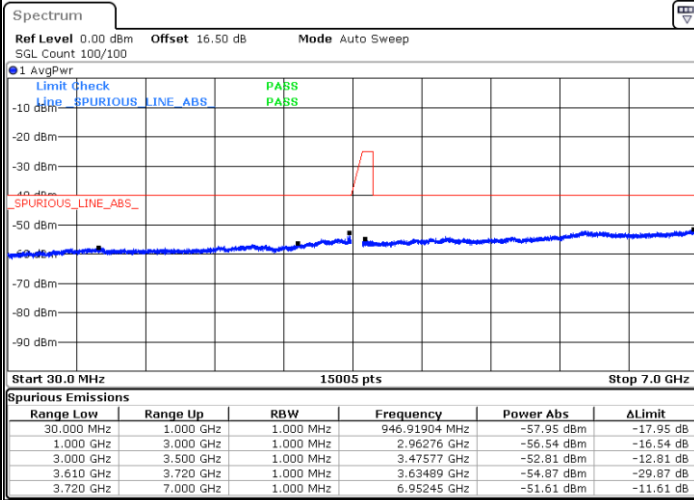
Date: 20.JAN.2022 11:37:15



# Conducted Spurious Emission

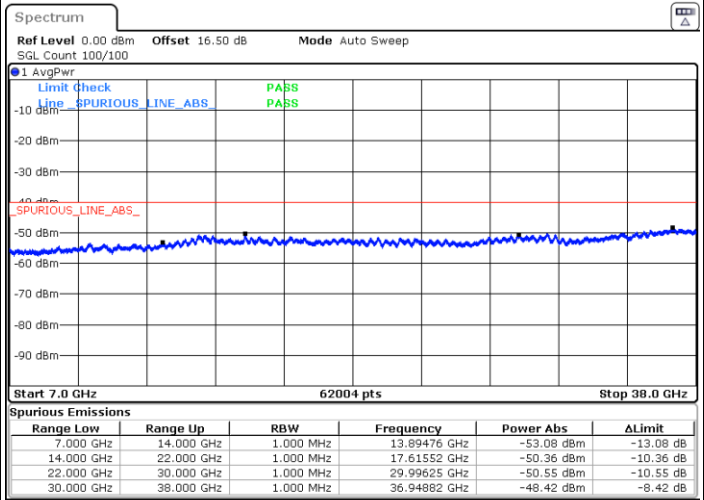
## LTE Band 48 / 5MHz

### Lowest Channel / QPSK



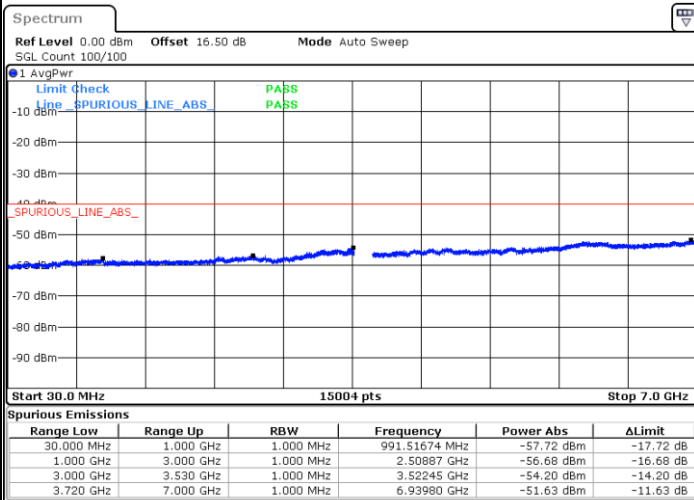
Date: 18.JAN.2022 09:22:05

### Lowest Channel / QPSK



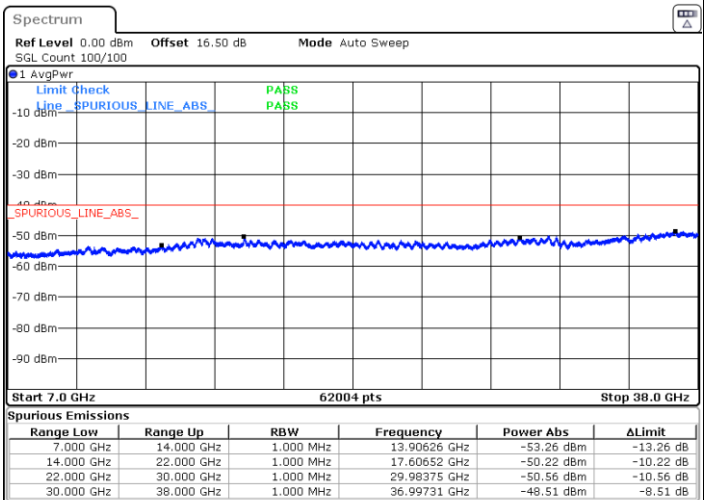
Date: 7.FEB.2022 20:01:49

### Middle Channel / QPSK

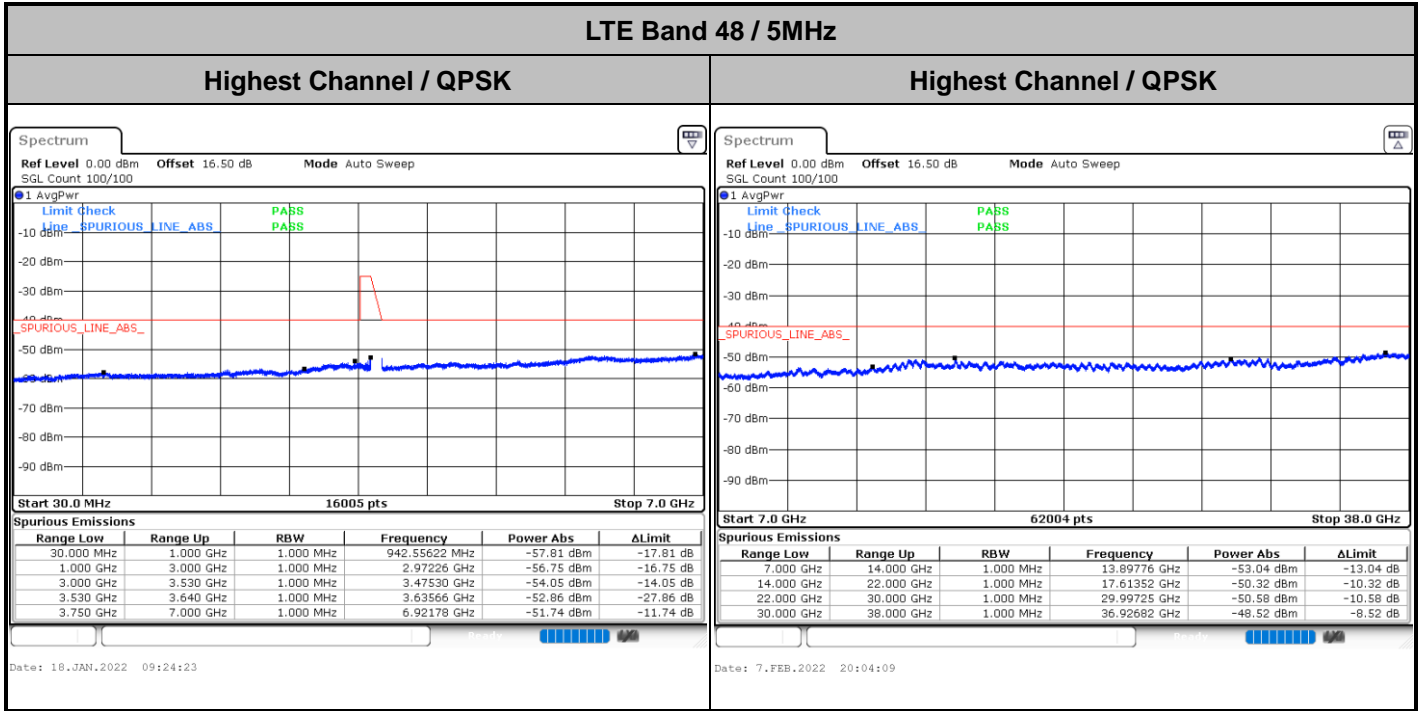


Date: 18.JAN.2022 09:23:14

### Middle Channel / QPSK



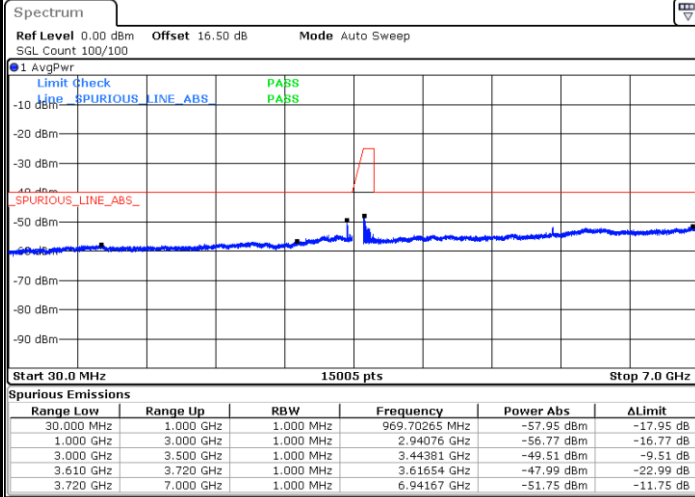
Date: 7.FEB.2022 20:02:59





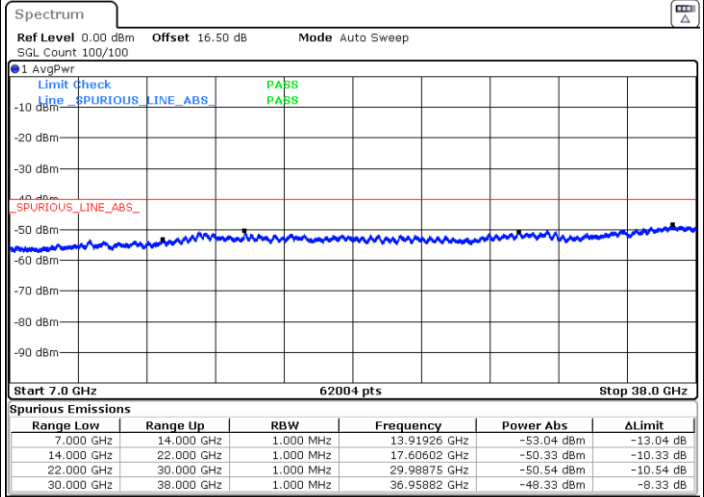
LTE Band 48 / 10MHz

Lowest Channel / QPSK



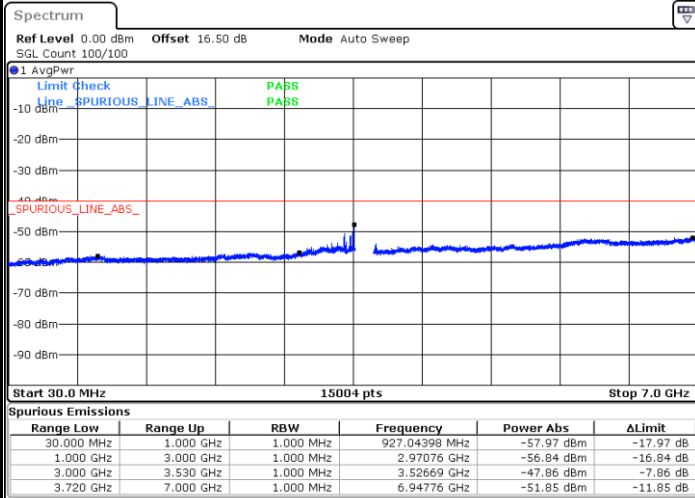
Date: 18.JAN.2022 09:25:34

Lowest Channel / QPSK



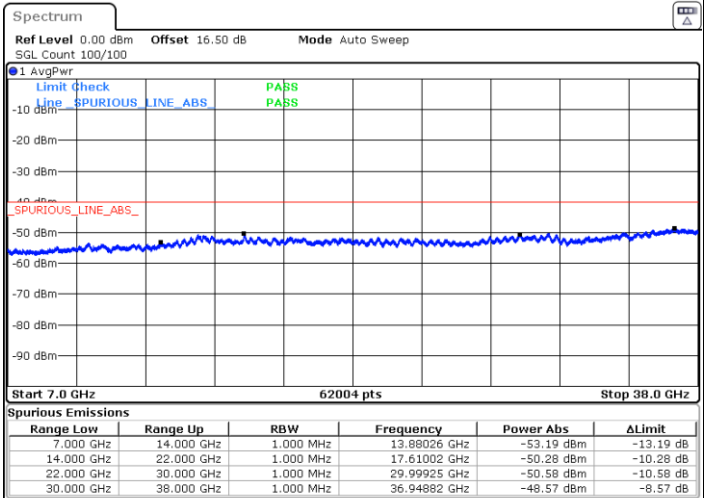
Date: 7.FEB.2022 20:05:19

Middle Channel / QPSK



Date: 18.JAN.2022 09:26:43

Middle Channel / QPSK



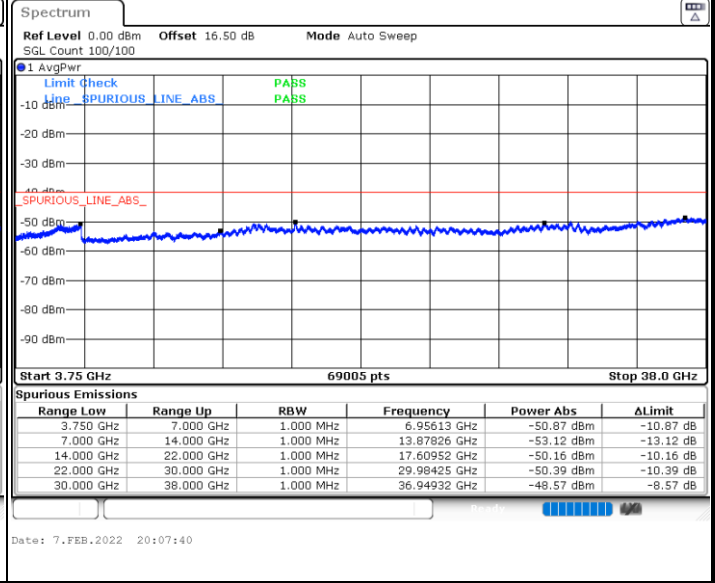
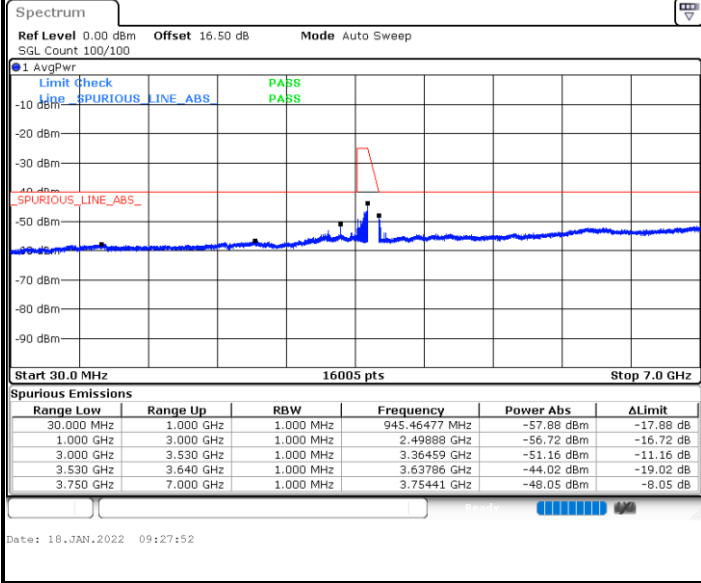
Date: 7.FEB.2022 20:06:29



LTE Band 48 / 10MHz

Highest Channel / QPSK

Highest Channel / QPSK

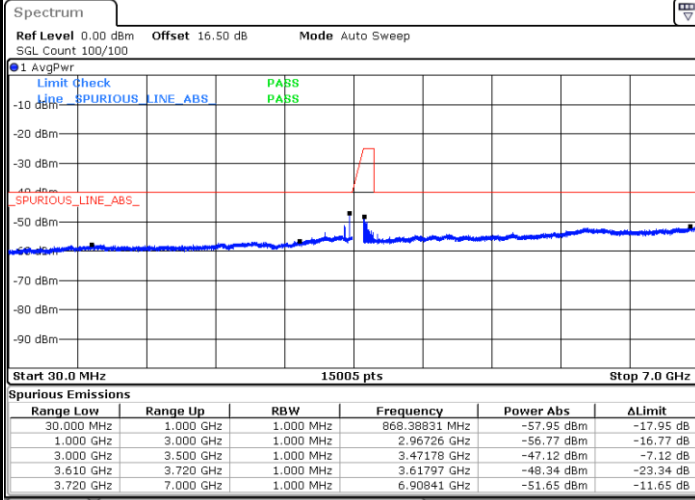






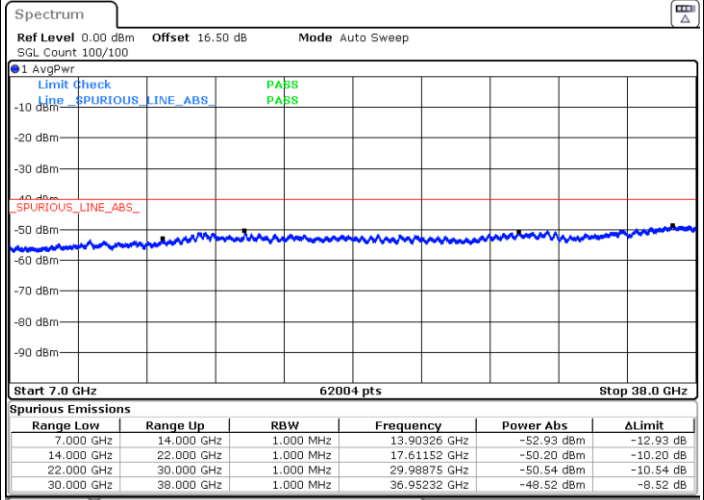
LTE Band 48 / 15MHz

Lowest Channel / QPSK



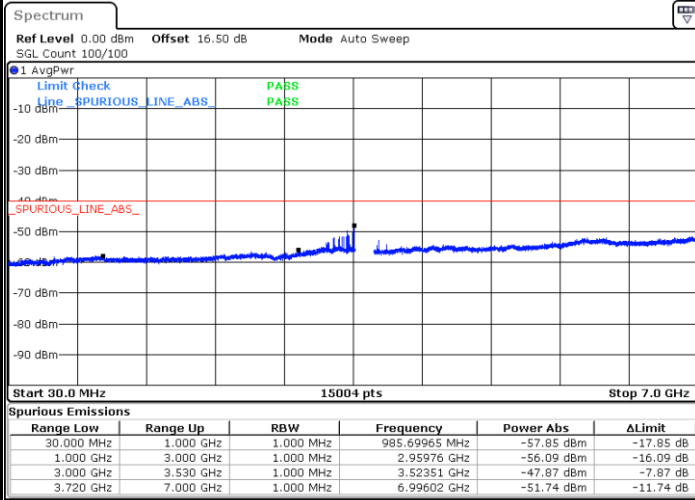
Date: 18.JAN.2022 09:29:03

Lowest Channel / QPSK



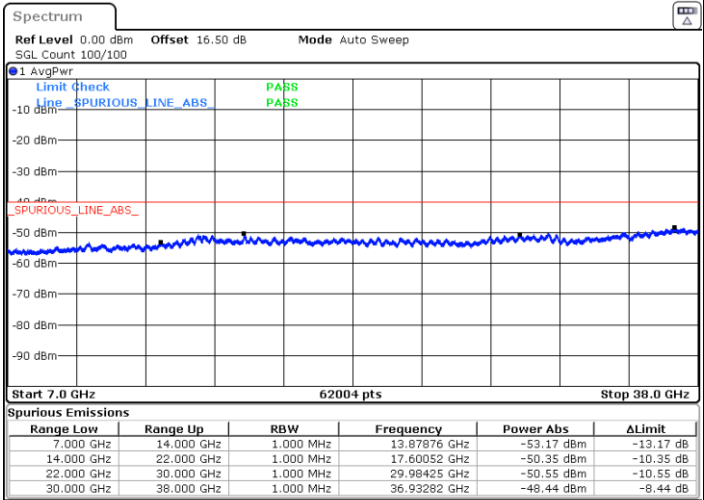
Date: 7.FEB.2022 20:08:51

Middle Channel / QPSK

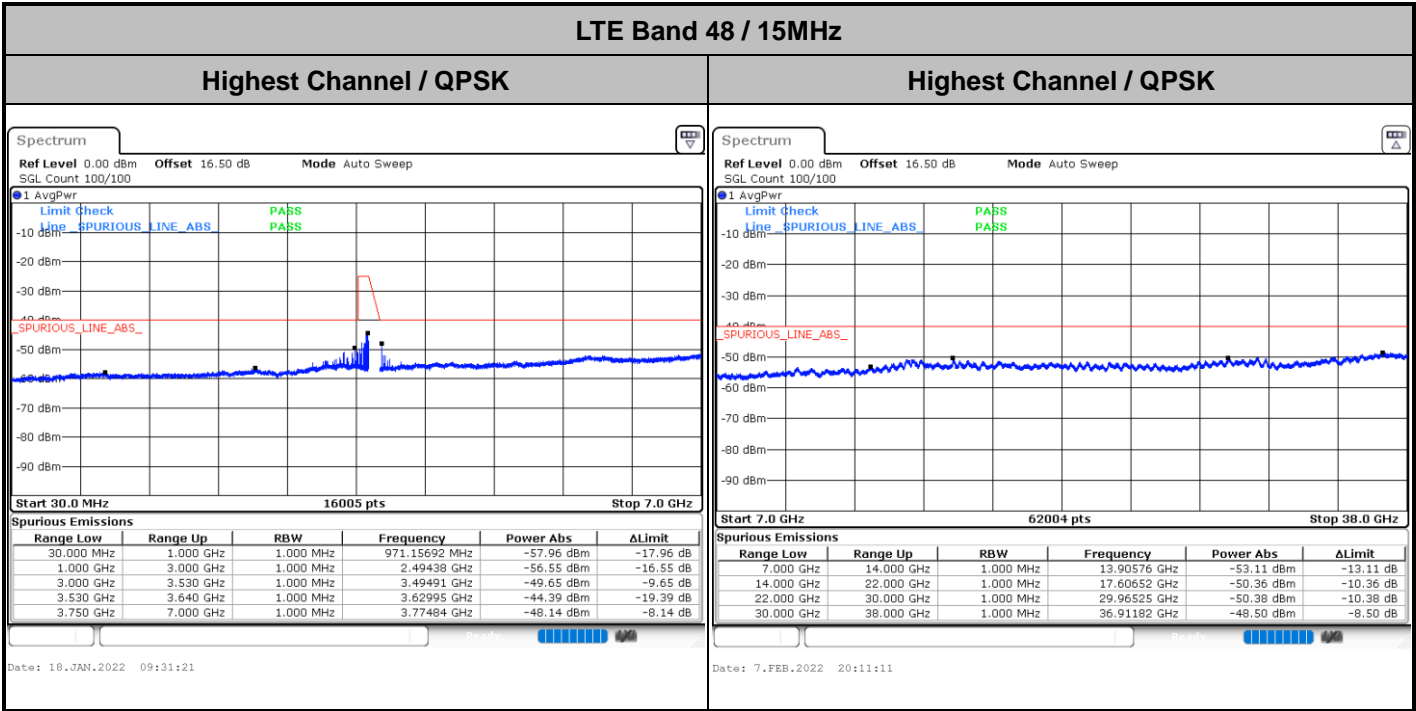


Date: 18.JAN.2022 09:30:12

Middle Channel / QPSK

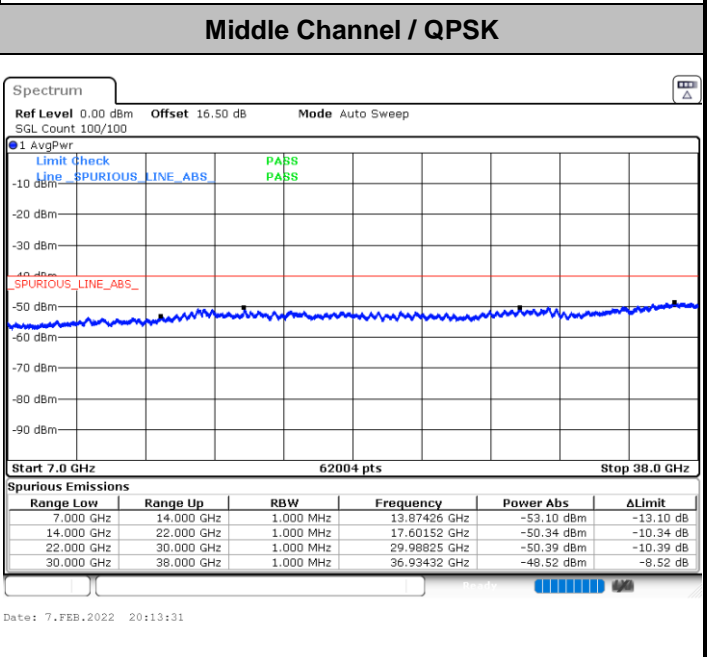
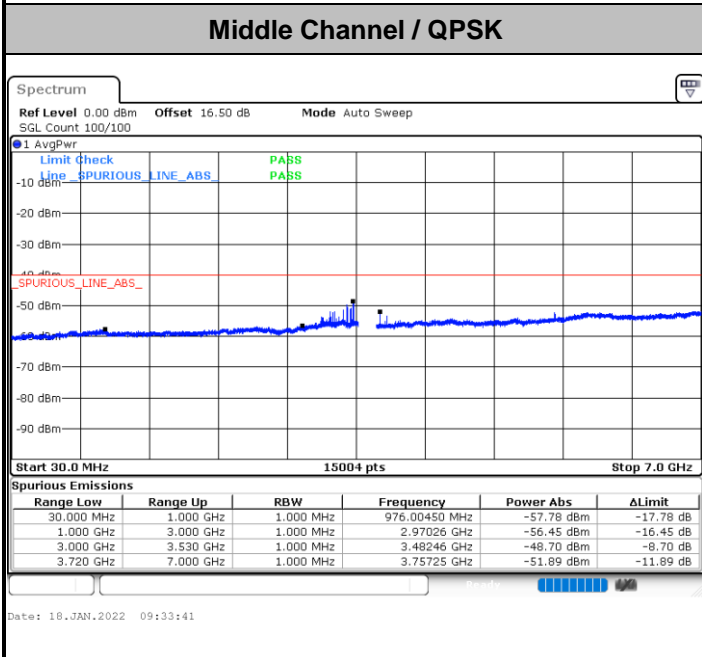
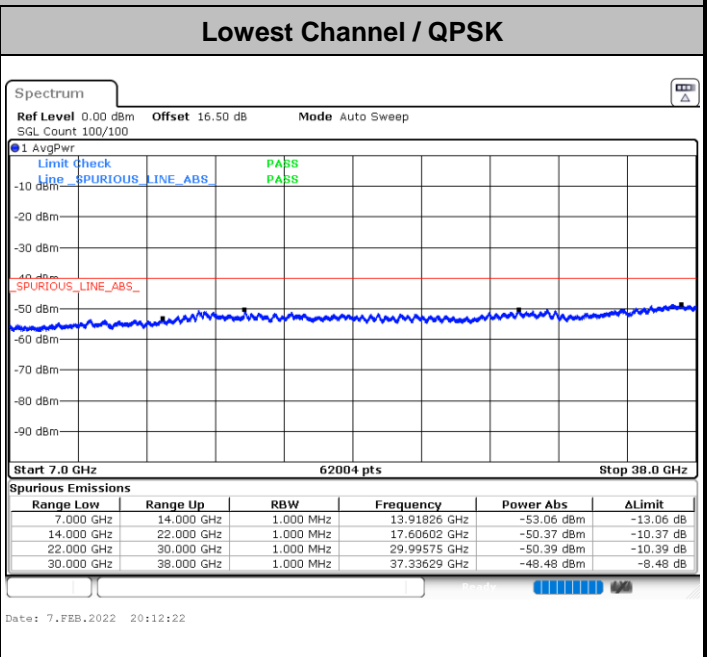
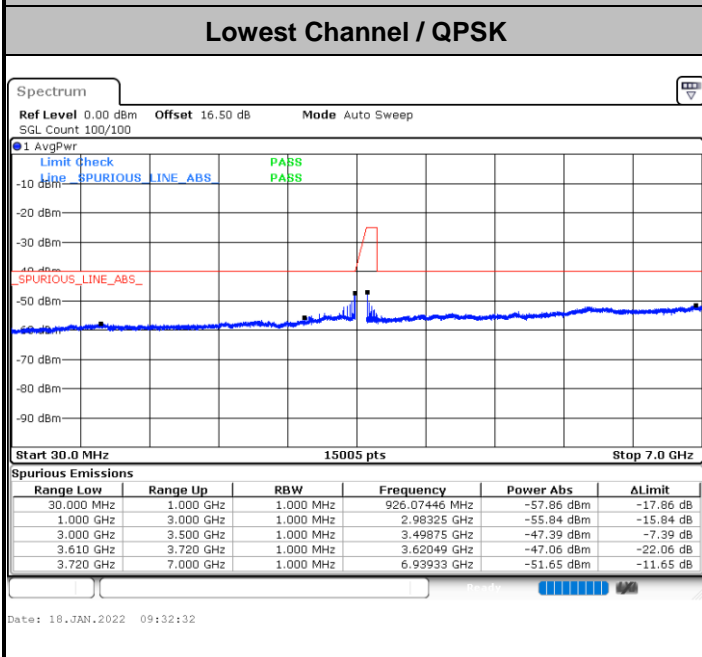


Date: 7.FEB.2022 20:10:01





**LTE Band 48 / 20MHz**

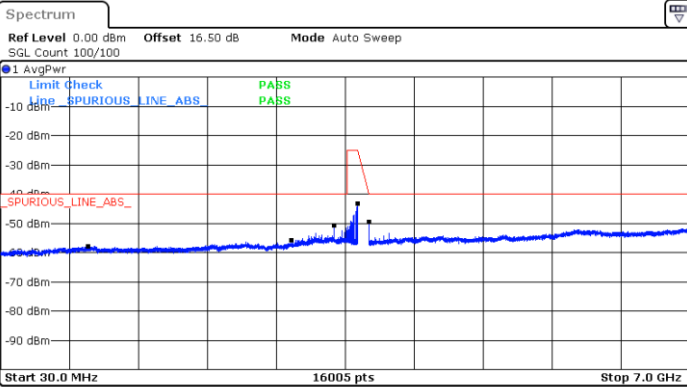




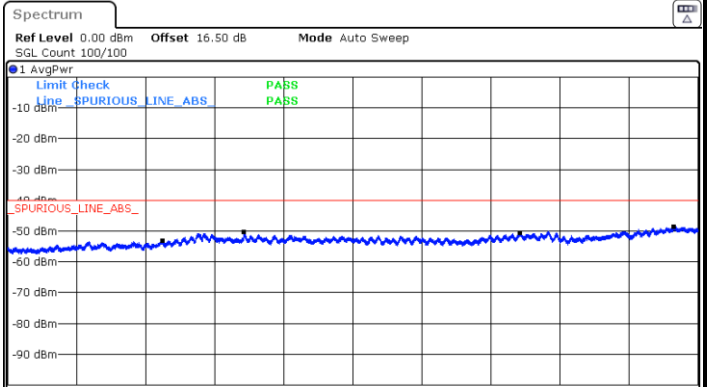
LTE Band 48 / 20MHz

Highest Channel / QPSK

Highest Channel / QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.50125 MHz	-57.91 dBm	-17.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96876 GHz	-55.84 dBm	-15.84 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.40194 GHz	-50.61 dBm	-10.61 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.63995 GHz	-43.28 dBm	-18.28 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.75580 GHz	-49.51 dBm	-9.51 dB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.93125 GHz	-53.16 dBm	-13.16 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60252 GHz	-50.16 dBm	-10.16 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98175 GHz	-50.62 dBm	-10.62 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.90432 GHz	-48.54 dBm	-8.54 dB

Date: 18.JAN.2022 09:34:50

Date: 7.FEB.2022 20:14:41



**Frequency Stability**

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

**Note:**

- 1. Normal Voltage =115 V. ; Battery End Point (ACLRP) =105 V. ; Maximum Voltage =125 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### LTE Band 48

LTE Band 48 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7100	-52.74	-40	-12.74	-48.24	-62.71	1.77	11.74	H
	10653	-57.28	-40	-17.28	-54.78	-65.71	2.47	10.90	H
	14205	-53.51	-40	-13.51	-56.29	-62.35	2.87	11.71	H
	21306	-46.97	-40	-6.97	-68.99	-63.69	1.98	18.70	H
	24857	-52.74	-40	-12.74	-77.7	-68.75	2.07	18.07	H
	28408	-51.38	-40	-11.38	-76.89	-68.62	2.32	19.56	H
									H
	7100	-47.51	-40	-7.51	-42.62	-57.48	1.77	11.74	V
	10653	-57.04	-40	-17.04	-54.29	-65.47	2.47	10.90	V
	14205	-54.29	-40	-14.29	-57.09	-63.13	2.87	11.71	V
	21306	-50.71	-40	-10.71	-72.59	-67.43	1.98	18.70	V
	24857	-51.29	-40	-11.29	-77.46	-67.30	2.07	18.07	V
	28408	-49.58	-40	-9.58	-76.91	-66.82	2.32	19.56	V
									V
Middle	7230	-57.14	-40	-17.14	-52.76	-66.83	1.84	11.53	H
	10848	-54.66	-40	-14.66	-52.51	-62.99	2.57	10.90	H
	14462	-53.18	-40	-13.18	-55.88	-61.42	2.85	11.09	H
	18080	-53.71	-40	-13.71	-71.85	-69.94	1.76	17.98	H
	21696	-47.46	-40	-7.46	-69.1	-64.25	1.99	18.78	H
	25312	-52.33	-40	-12.33	-77.67	-68.93	2.14	18.74	H
									H
	7230	-56.58	-40	-16.58	-51.94	-66.27	1.84	11.53	V
	10848	-54.89	-40	-14.89	-52.53	-63.22	2.57	10.90	V
	14462	-54.78	-40	-14.78	-56.66	-63.02	2.85	11.09	V
	18080	-54.59	-40	-14.59	-71.8	-70.82	1.76	17.98	V
	21696	-44.79	-40	-4.79	-66.42	-61.58	1.99	18.78	V
25312	-50.75	-40	-10.75	-77.35	-67.35	2.14	18.74	V	



Highest	7360	-58.84	-40	-18.84	-54.25	-68.25	1.91	11.32	H
	11043	-55.95	-40	-15.95	-54.18	-64.27	2.63	10.95	H
	14724	-52.97	-40	-12.97	-56.58	-61.77	2.91	11.72	H
	18405	-55.54	-40	-15.54	-74.02	-71.59	1.87	17.92	H
	22086	-51.24	-40	-11.24	-73.43	-68.03	2.08	18.87	H
	25767	-51.75	-40	-11.75	-77.84	-68.77	2.03	19.05	H
									H
	7360	-57.80	-40	-17.80	-53.02	-67.21	1.91	11.32	V
	11043	-55.31	-40	-15.31	-53.38	-63.63	2.63	10.95	V
	14724	-55.22	-40	-15.22	-57.16	-64.02	2.91	11.72	V
	18405	-55.78	-40	-15.78	-73.38	-71.83	1.87	17.92	V
	22086	-44.08	-40	-4.08	-66.27	-60.87	2.08	18.87	V
	25767	-49.22	-40	-9.22	-76.5	-66.24	2.03	19.05	V
									V

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