

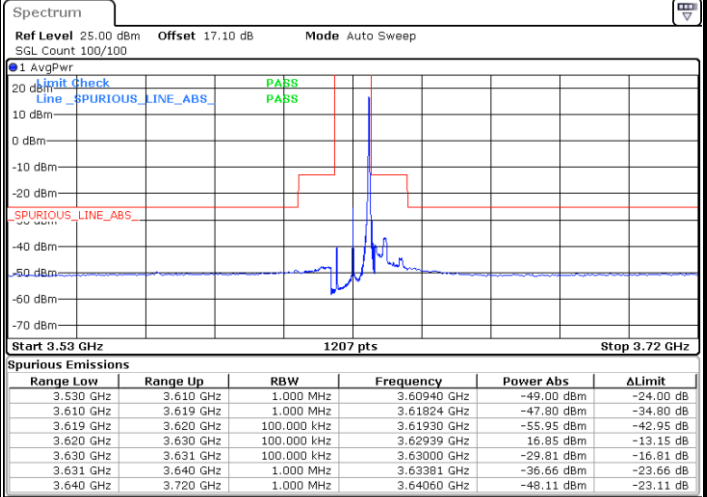
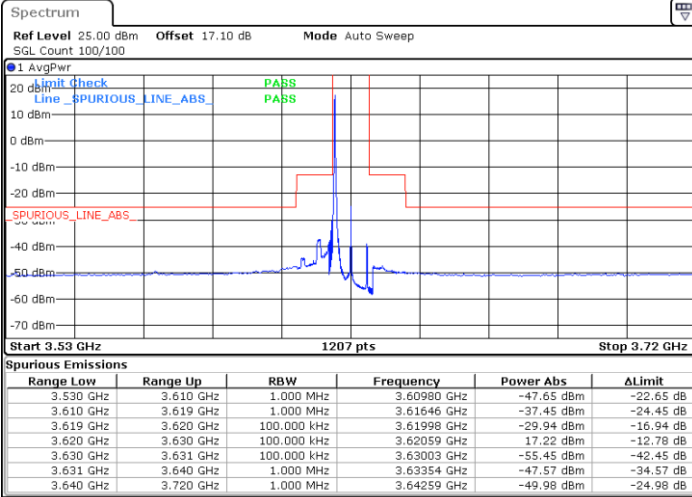


LTE Band 48 / 10MHz

256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax

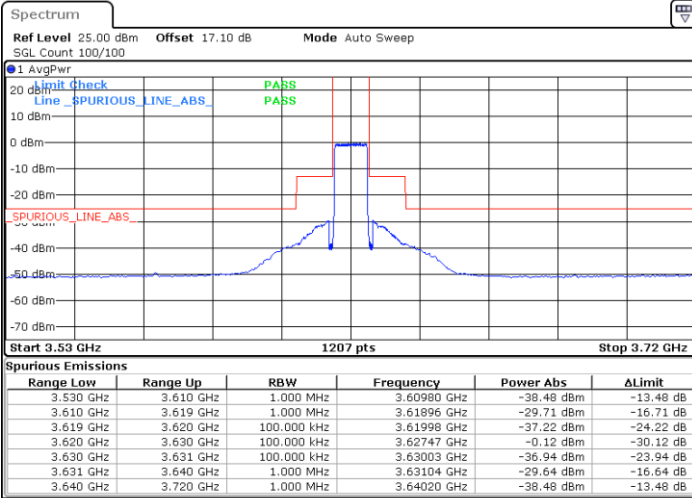


Date: 13 JAN 2021 13:56:59

Date: 13 JAN 2021 13:57:51

Middle Channel / FullIRB

N/A



Date: 13 JAN 2021 13:56:29

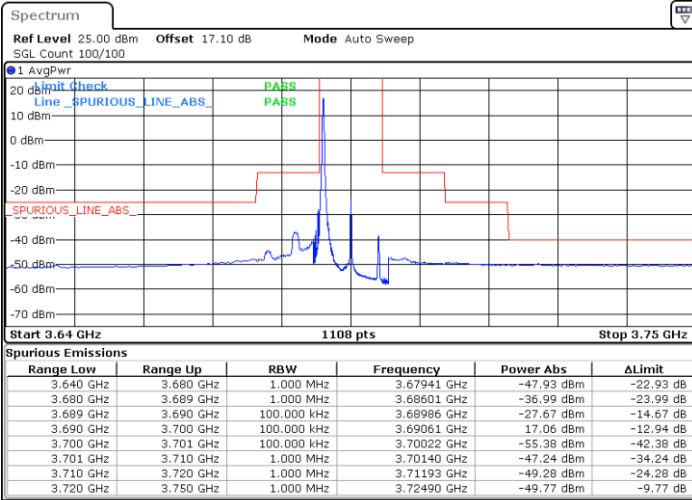


LTE Band 48 / 10MHz

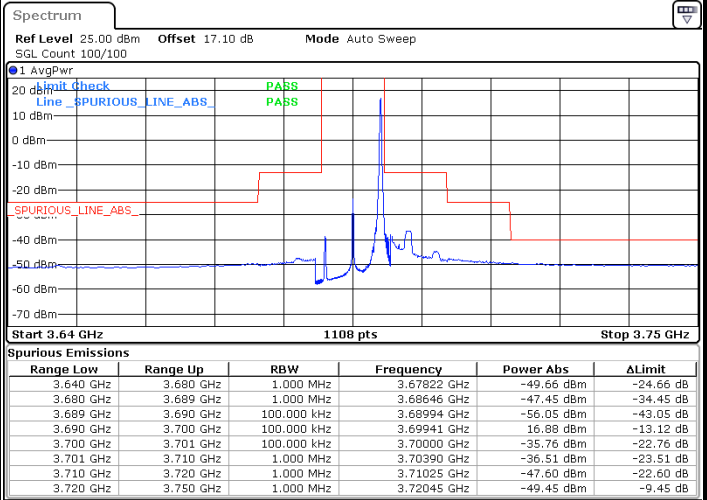
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



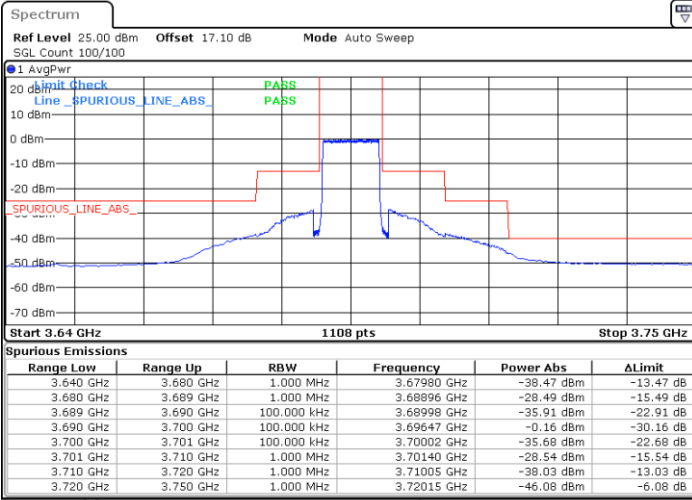
Date: 13 JAN 2021 14:57:45



Date: 12 JAN 2021 21:16:20

Highest Channel / FullIRB

N/A



Date: 12 JAN 2021 21:17:10

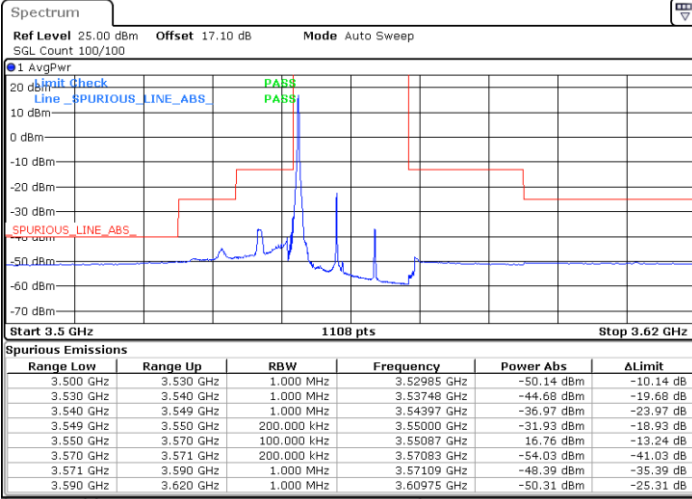


LTE Band 48 / 15MHz

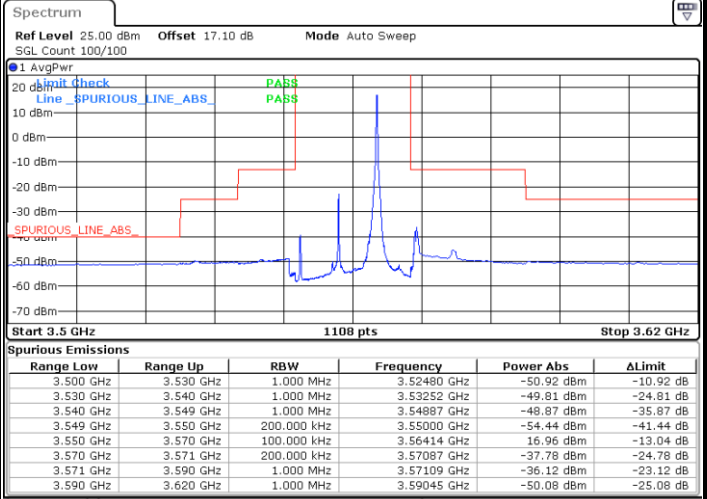
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



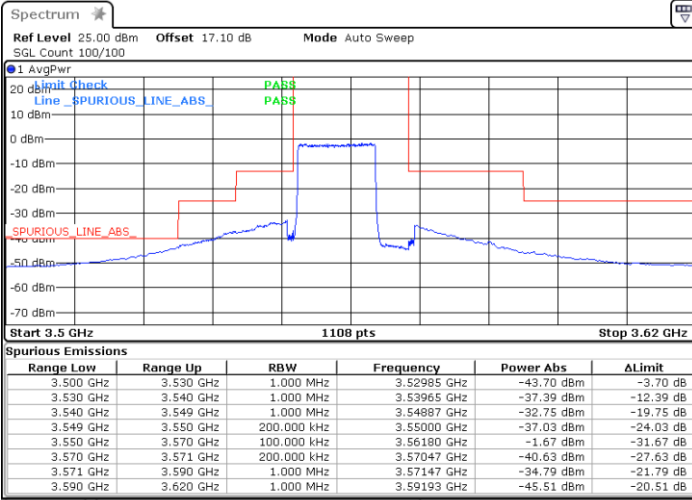
Date: 12 JAN 2021 21:18:04



Date: 13 JAN 2021 14:56:15

Lowest Channel / FullIRB

N/A



Date: 12 JAN 2021 21:19:05

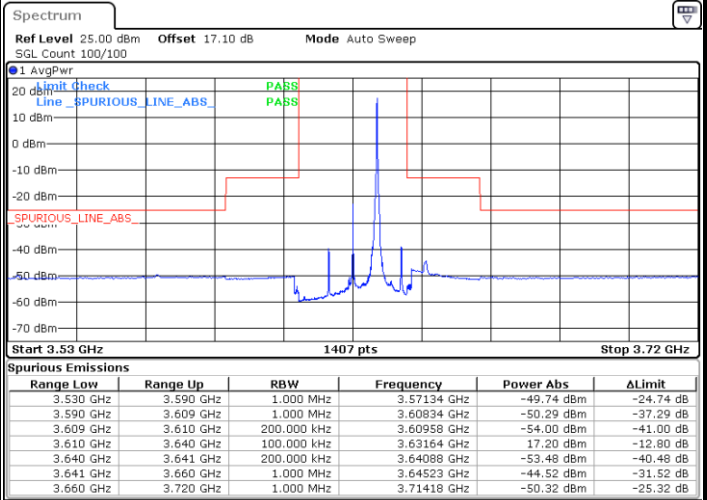
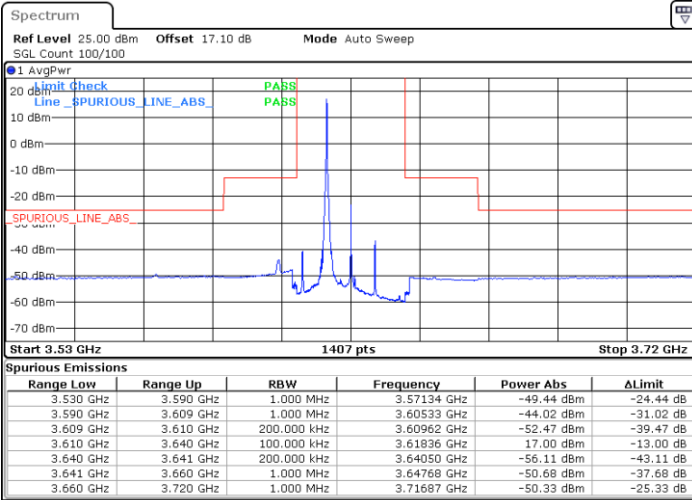


LTE Band 48 / 15MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

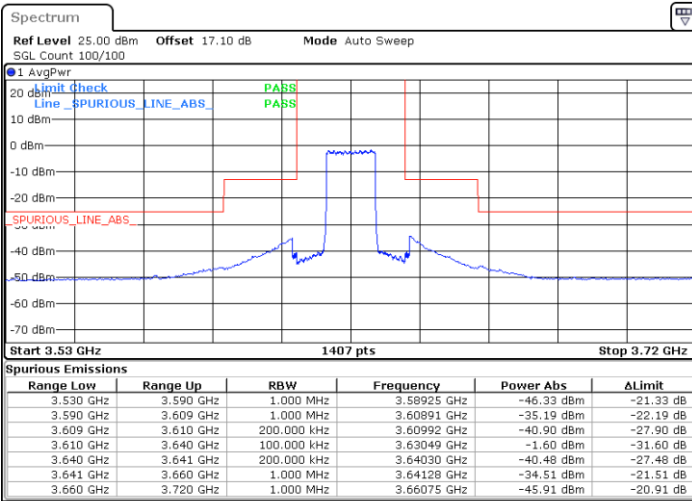


Date: 13 JAN 2021 13:54:21

Date: 13 JAN 2021 13:54:54

Middle Channel / FullIRB

N/A



Date: 13 JAN 2021 13:53:12

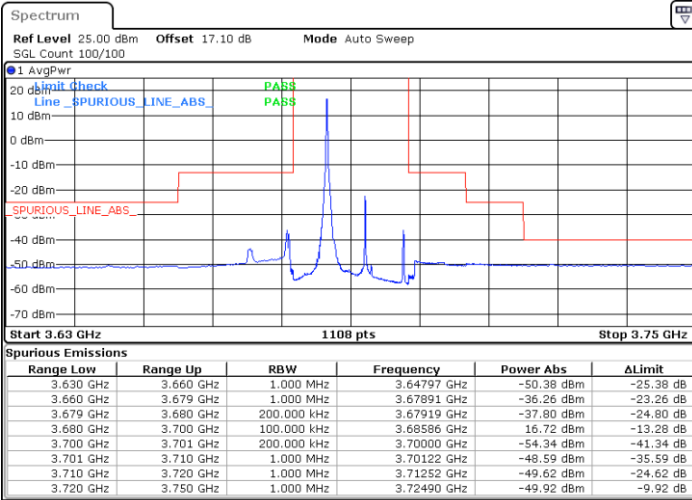


LTE Band 48 / 15MHz

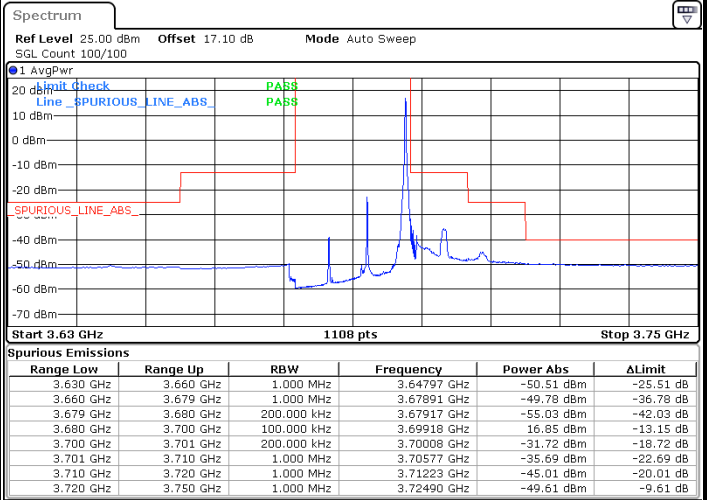
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



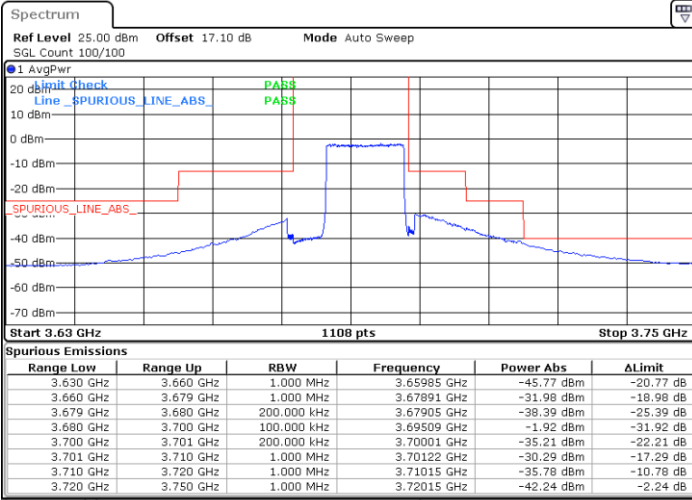
Date: 13 JAN 2021 14:53:44



Date: 12 JAN 2021 21:21:20

Highest Channel / FullIRB

N/A



Date: 12 JAN 2021 21:22:13

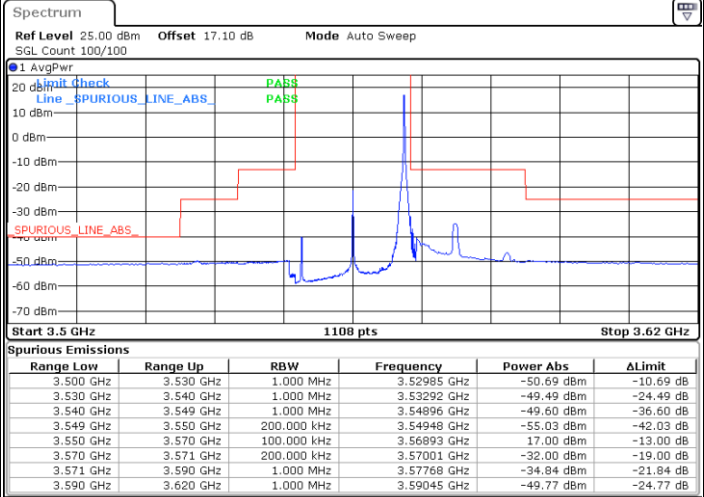
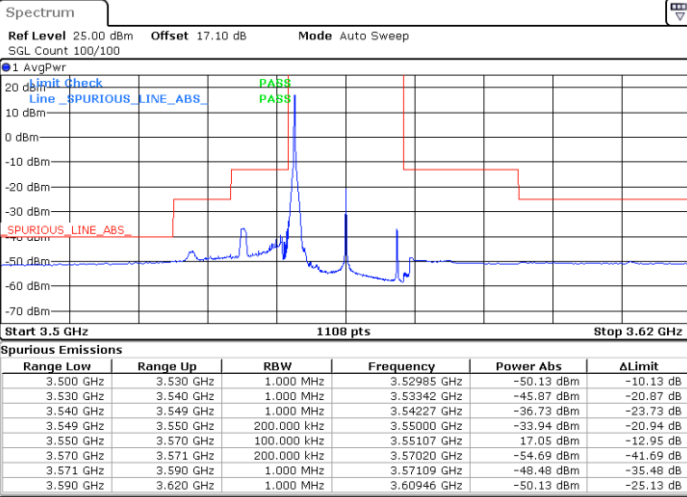


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

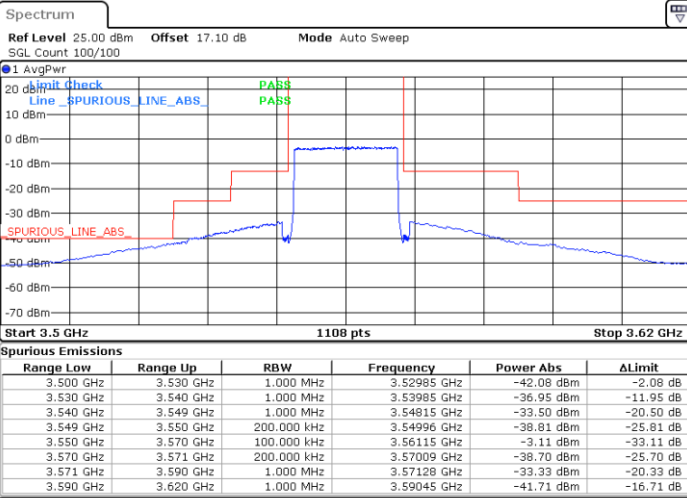


Date: 12 JAN 2021 21:24:37

Date: 13 JAN 2021 14:28:49

Lowest Channel / FullIRB

N/A



Date: 12 JAN 2021 21:26:09

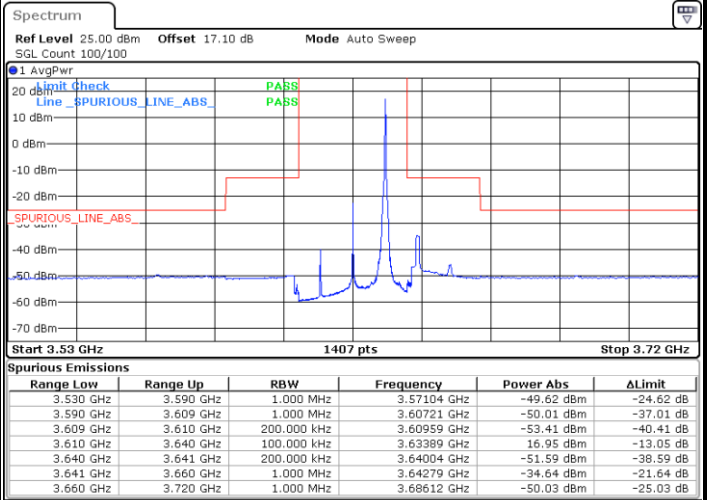
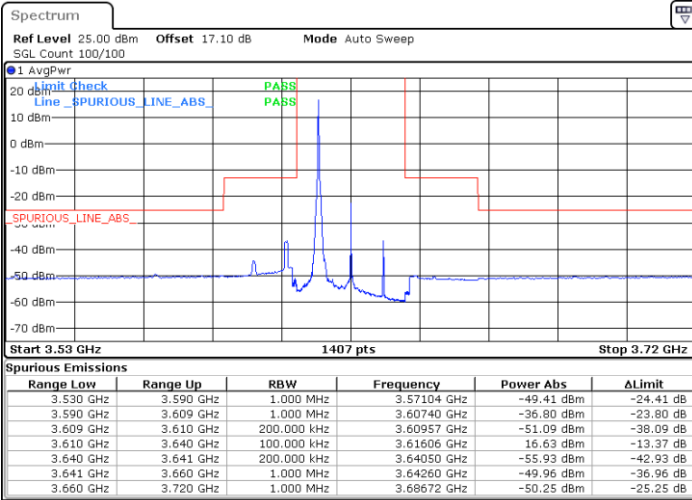


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

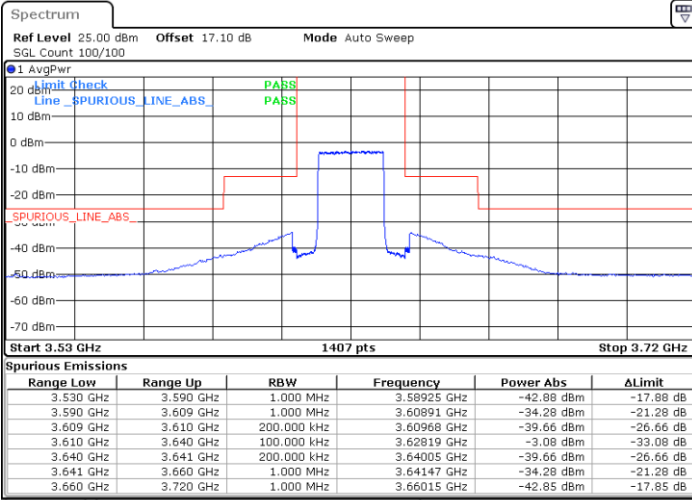


Date: 13 JAN 2021 13:50:28

Date: 13 JAN 2021 13:49:49

Middle Channel / FullIRB

N/A



Date: 13 JAN 2021 13:51:34

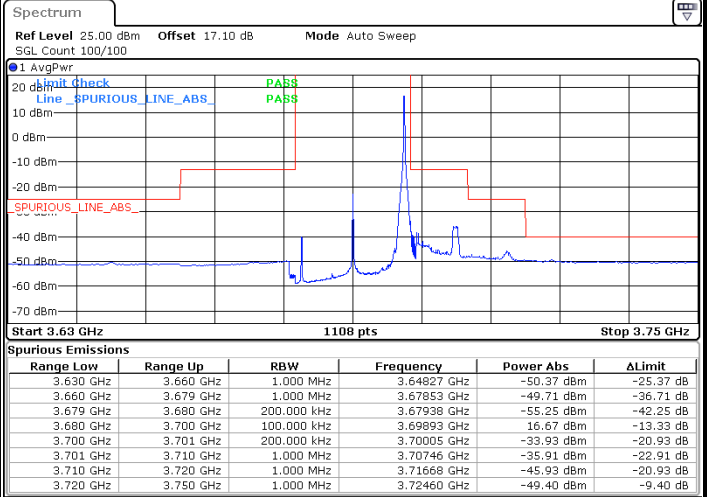
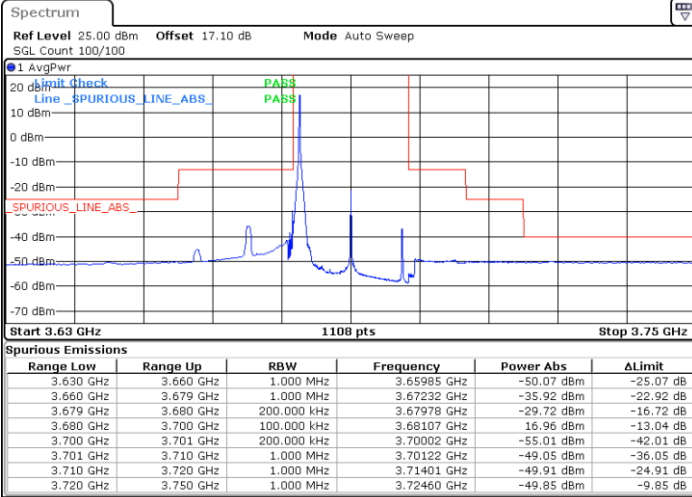


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

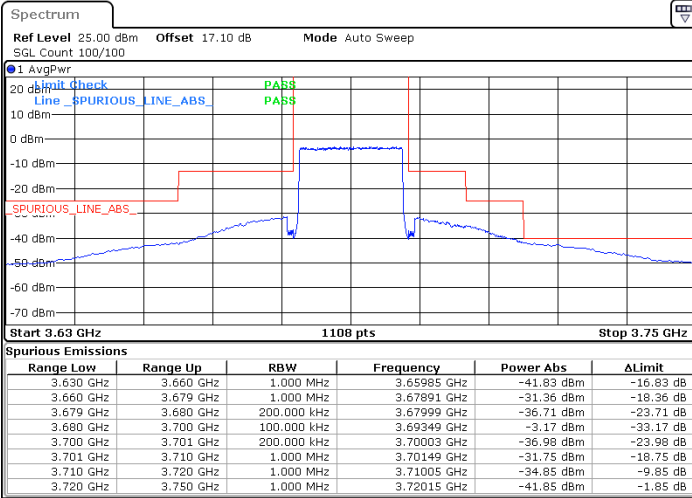


Date: 13 JAN 2021 14:46:29

Date: 12 JAN 2021 21:27:57

Highest Channel / FullIRB

N/A



Date: 12 JAN 2021 21:29:05

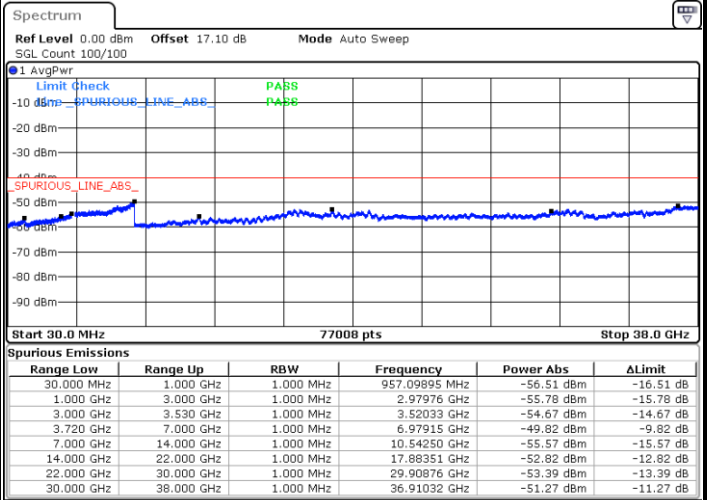
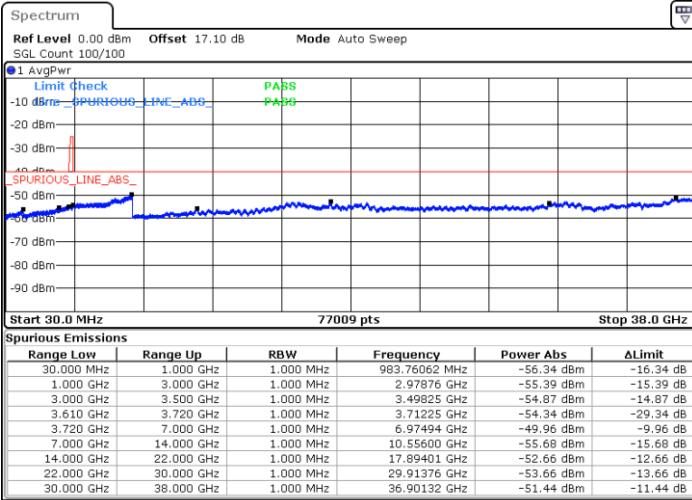


Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

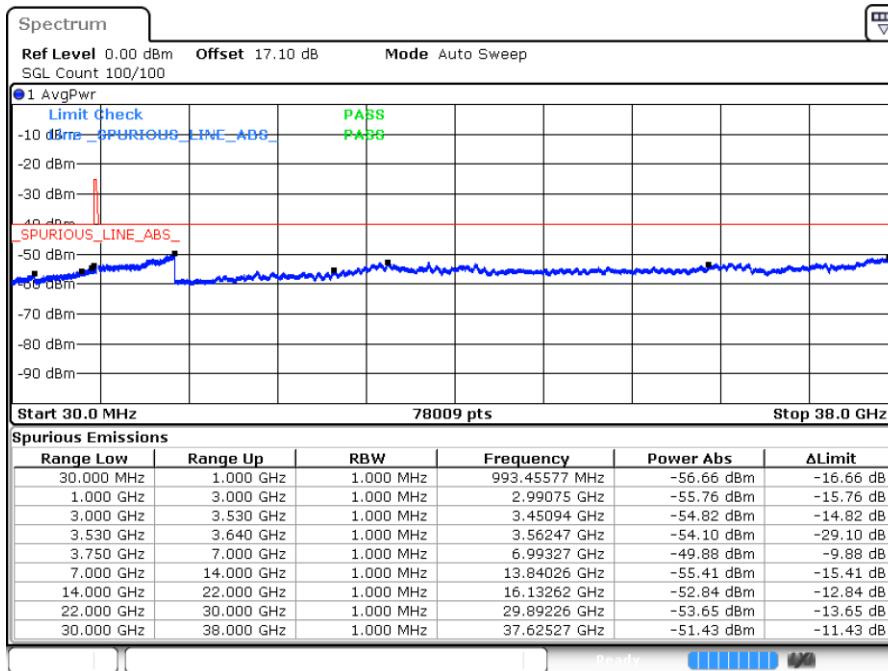
Middle Channel / QPSK



Date: 12 JAN 2021 20:03:57

Date: 12 JAN 2021 20:14:42

Highest Channel / QPSK



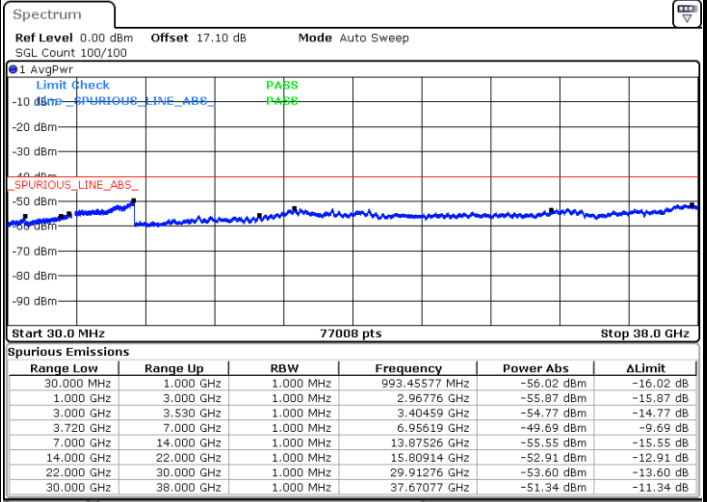
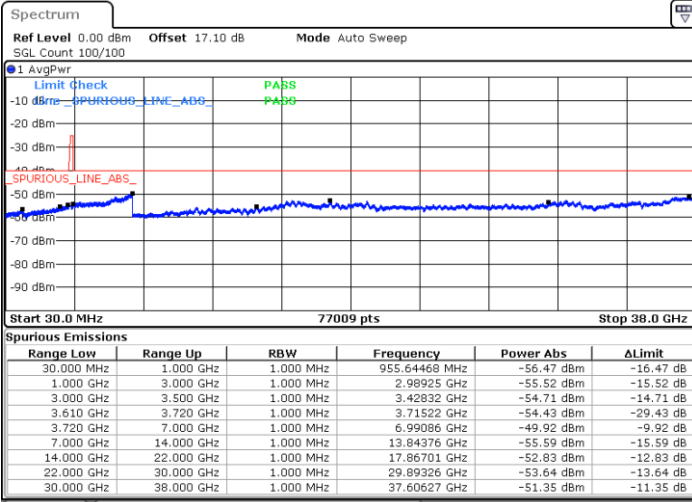
Date: 12 JAN 2021 20:15:53



LTE Band 48 / 10MHz

Lowest Channel / QPSK

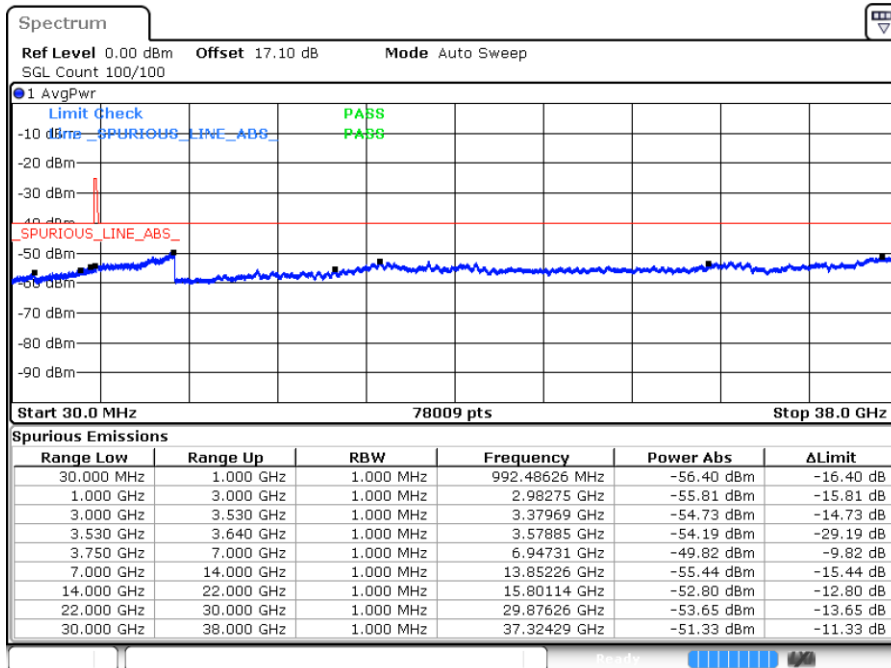
Middle Channel / QPSK



Date: 12 JAN 2021 20:17:04

Date: 12 JAN 2021 20:18:14

Highest Channel / QPSK



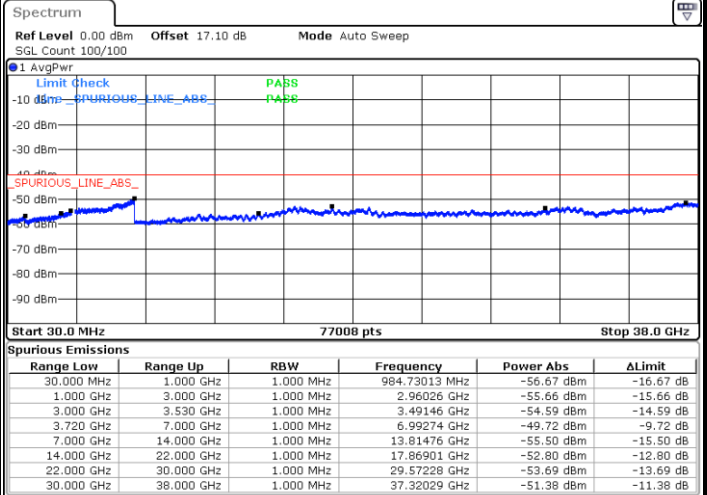
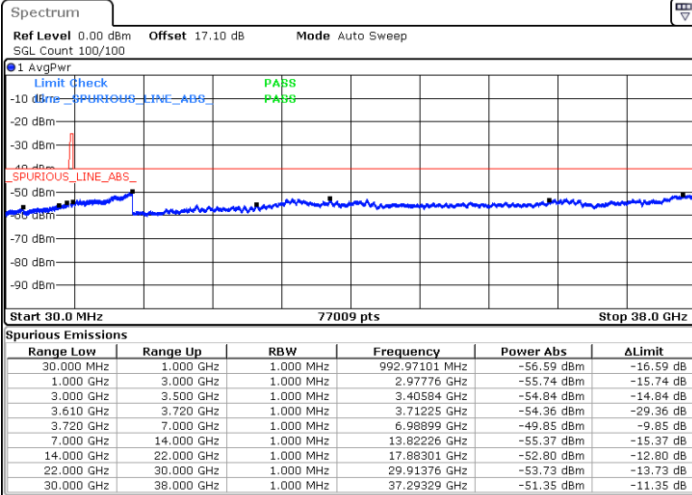
Date: 12 JAN 2021 20:19:24



LTE Band 48 / 15MHz

Lowest Channel / QPSK

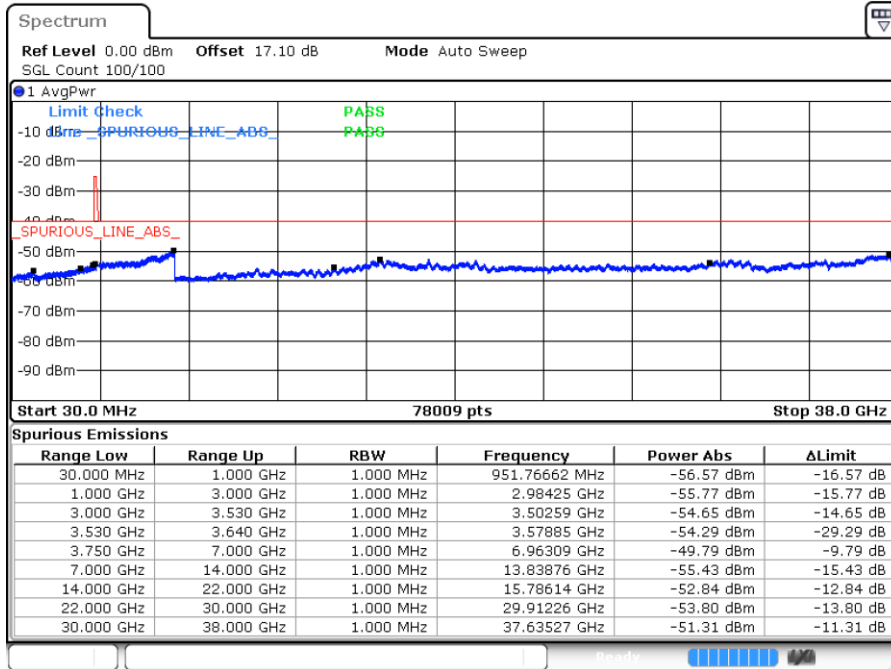
Middle Channel / QPSK



Date: 12 JAN 2021 20:20:35

Date: 12 JAN 2021 20:21:45

Highest Channel / QPSK



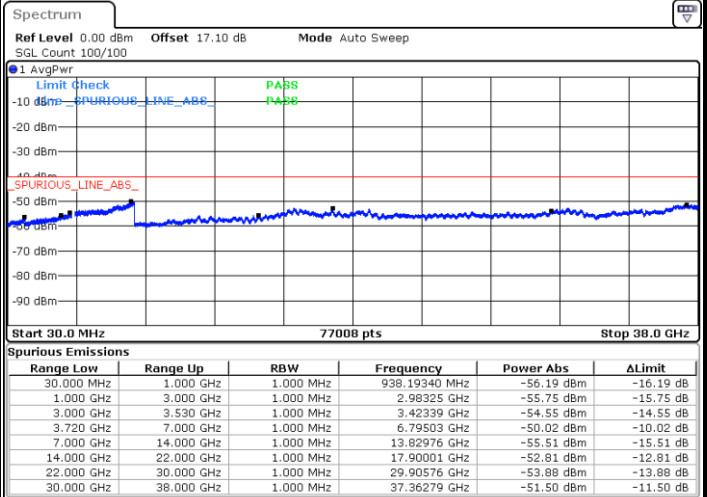
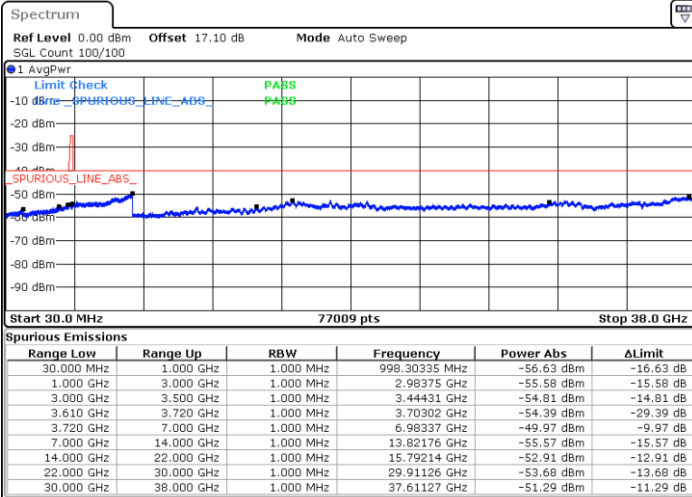
Date: 12 JAN 2021 20:22:55



LTE Band 48 / 20MHz

Lowest Channel / QPSK

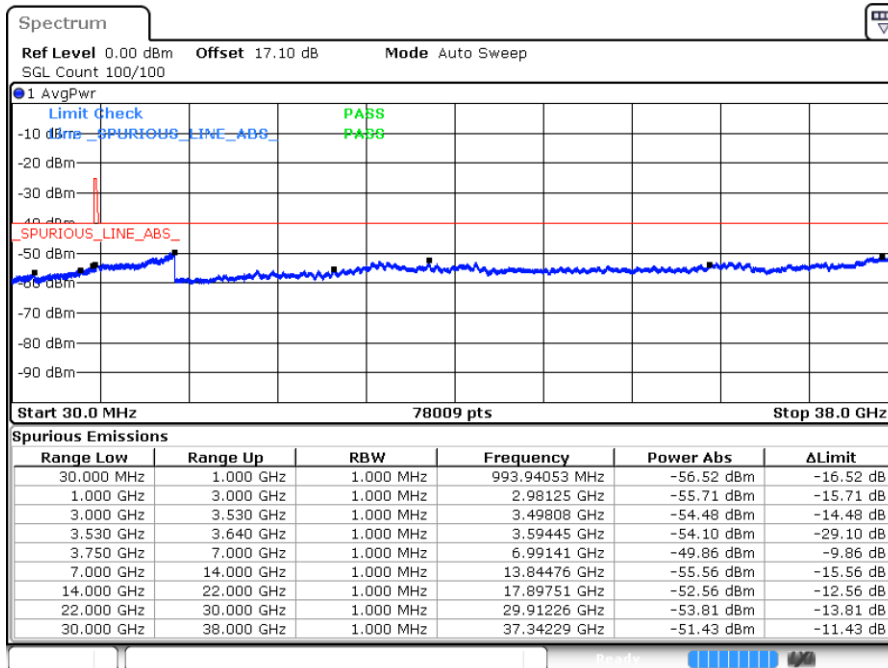
Middle Channel / QPSK



Date: 12 JAN 2021 20:24:06

Date: 12 JAN 2021 20:25:16

Highest Channel / QPSK



Date: 12 JAN 2021 20:26:26



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	0.0029	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0039	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

- 1. Normal Voltage =3.85 V. ; Battery End Point (ACLRP) =3.4 V. ; Maximum Voltage =4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Primary Antenna>

<Ant 7>

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	-57.78	-40	-17.78	-61.43	-67.75	1.77	11.74	H
	10655	-53.68	-40	-13.68	-60.14	-62.11	2.47	10.90	H
	14205	-58.90	-40	-18.90	-68.13	-67.74	2.87	11.71	H
	21360	-54.25	-40	-14.25	-74.87	-70.99	1.96	18.70	H
	24857	-52.81	-40	-12.81	-77.96	-68.82	2.07	18.07	H
	28408	-52.43	-40	-12.43	-78.05	-69.67	2.32	19.56	H
									H
	7100	-55.62	-40	-15.62	-58.88	-65.59	1.77	11.74	V
	10655	-52.27	-40	-12.27	-58.47	-60.70	2.47	10.90	V
	14205	-59.25	-40	-19.25	-68.2	-68.09	2.87	11.71	V
	21360	-54.49	-40	-14.49	-74.97	-71.23	1.96	18.70	V
	24857	-51.54	-40	-11.54	-77.9	-67.55	2.07	18.07	V
	28408	-50.34	-40	-10.34	-77.78	-67.58	2.32	19.56	V
									V
Middle	7230	-59.35	-40	-19.35	-63.54	-69.04	1.84	11.53	H
	10850	-53.89	-40	-13.89	-60.37	-62.22	2.57	10.90	H
	14462	-58.51	-40	-18.51	-66.96	-66.75	2.85	11.09	H
	18080	-54.78	-40	-14.78	-71.15	-71.01	1.76	17.98	H
	21696	-55.80	-40	-15.80	-76.08	-72.59	1.99	18.78	H
	25312	-52.56	-40	-12.56	-78.07	-69.16	2.14	18.74	H
									H
	7230	-56.01	-40	-16.01	-59.94	-65.70	1.84	11.53	V
	10850	-45.40	-40	-5.40	-51.67	-53.73	2.57	10.90	V
	14462	-59.69	-40	-19.69	-67.32	-67.93	2.85	11.09	V
	18080	-55.27	-40	-15.27	-70.71	-71.50	1.76	17.98	V
	21696	-55.99	-40	-15.99	-76.26	-72.78	1.99	18.78	V
	25312	-51.32	-40	-11.32	-78.09	-67.92	2.14	18.74	V
									V



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)
Highest	7365	-56.47	-40	-16.47	-60.9	-65.87	1.92	11.32	H
	11045	-45.31	-40	-5.31	-51.94	-53.63	2.63	10.95	H
	14724	-57.53	-40	-17.53	-66.9	-66.33	2.91	11.72	H
	18405	-55.08	-40	-15.08	-72.3	-71.13	1.87	17.92	H
	22086	-54.38	-40	-14.38	-75.3	-71.17	2.08	18.87	H
	25767	-52.00	-40	-12.00	-78.03	-69.02	2.03	19.05	H
									H
	7360	-54.04	-40	-14.04	-58.28	-63.45	1.91	11.32	V
	11045	-52.71	-40	-12.71	-59.17	-61.03	2.63	10.95	V
	14724	-59.64	-40	-19.64	-67.34	-68.44	2.91	11.72	V
	18405	-55.53	-40	-15.53	-71.87	-71.58	1.87	17.92	V
	22086	-54.54	-40	-14.54	-75.46	-71.33	2.08	18.87	V
	25767	-50.79	-40	-10.79	-78.01	-67.81	2.03	19.05	V
									V

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



<ASDIV Antenna>

<Ant. 2>

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	-60.39	-40	-20.39	-64.04	-70.36	1.77	11.74	H
	10655	-58.30	-40	-18.30	-64.76	-66.73	2.47	10.90	H
	14205	-58.90	-40	-18.90	-68.13	-67.74	2.87	11.71	H
	21360	-54.14	-40	-14.14	-74.76	-70.88	1.96	18.70	H
	24857	-52.86	-40	-12.86	-78.01	-68.87	2.07	18.07	H
	28408	-52.12	-40	-12.12	-77.74	-69.36	2.32	19.56	H
									H
	7100	-59.10	-40	-19.10	-62.36	-69.07	1.77	11.74	V
	10655	-56.32	-40	-16.32	-62.52	-64.75	2.47	10.90	V
	14205	-59.08	-40	-19.08	-68.03	-67.92	2.87	11.71	V
	21360	-54.09	-40	-14.09	-74.57	-70.83	1.96	18.70	V
	24857	-51.98	-40	-11.98	-78.34	-67.99	2.07	18.07	V
	28408	-50.86	-40	-10.86	-78.3	-68.10	2.32	19.56	V
									V
Middle	7230	-60.26	-40	-20.26	-64.45	-69.95	1.84	11.53	H
	10850	-60.35	-40	-20.35	-66.83	-68.68	2.57	10.90	H
	14462	-58.59	-40	-18.59	-67.04	-66.83	2.85	11.09	H
	18080	-55.04	-40	-15.04	-71.41	-71.27	1.76	17.98	H
	21696	-55.58	-40	-15.58	-75.86	-72.37	1.99	18.78	H
	25312	-52.51	-40	-12.51	-78.02	-69.11	2.14	18.74	H
									H
	7230	-58.53	-40	-18.53	-62.46	-68.22	1.84	11.53	V
	10850	-58.84	-40	-18.84	-65.11	-67.17	2.57	10.90	V
	14462	-59.81	-40	-19.81	-67.44	-68.05	2.85	11.09	V
	18080	-56.06	-40	-16.06	-71.5	-72.29	1.76	17.98	V
	21696	-55.79	-40	-15.79	-76.06	-72.58	1.99	18.78	V
	25312	-51.28	-40	-11.28	-78.05	-67.88	2.14	18.74	V
									V



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)
Highest	7365	-60.43	-40	-20.43	-64.86	-69.83	1.92	11.32	H
	11045	-60.16	-40	-20.16	-66.79	-68.48	2.63	10.95	H
	14724	-58.22	-40	-18.22	-67.59	-67.02	2.91	11.72	H
	18405	-54.02	-40	-14.02	-71.24	-70.07	1.87	17.92	H
	22086	-54.30	-40	-14.30	-75.22	-71.09	2.08	18.87	H
	25767	-52.24	-40	-12.24	-78.27	-69.26	2.03	19.05	H
									H
	7360	-59.05	-40	-19.05	-63.3	-68.46	1.91	11.32	V
	11045	-60.82	-40	-20.82	-67.28	-69.14	2.63	10.95	V
	14724	-60.09	-40	-20.09	-67.79	-68.89	2.91	11.72	V
	18405	-55.61	-40	-15.61	-71.95	-71.66	1.87	17.92	V
	22086	-54.55	-40	-14.55	-75.47	-71.34	2.08	18.87	V
	25767	-51.05	-40	-11.05	-78.27	-68.07	2.03	19.05	V
									V

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

————THE END————