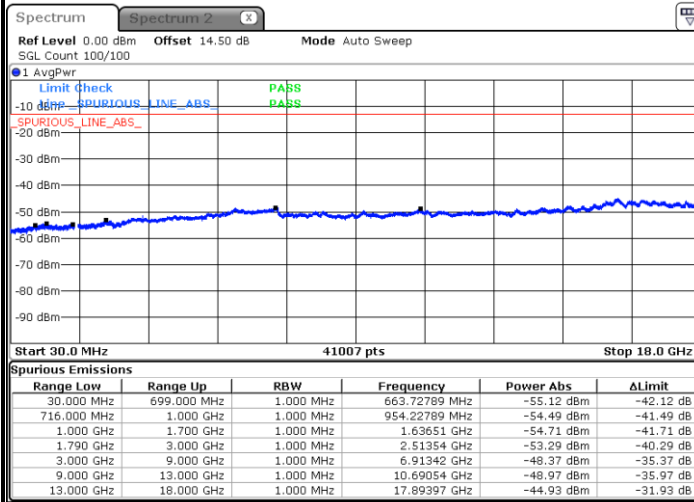




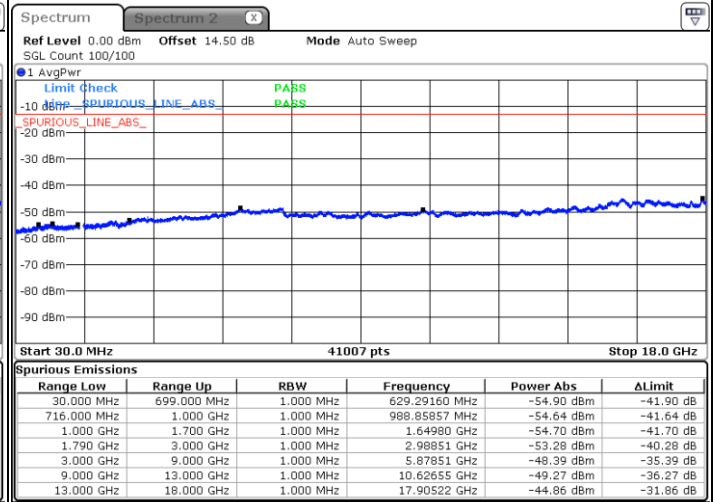
LTE Band 66 / 3MHz

Middle Channel / QPSK



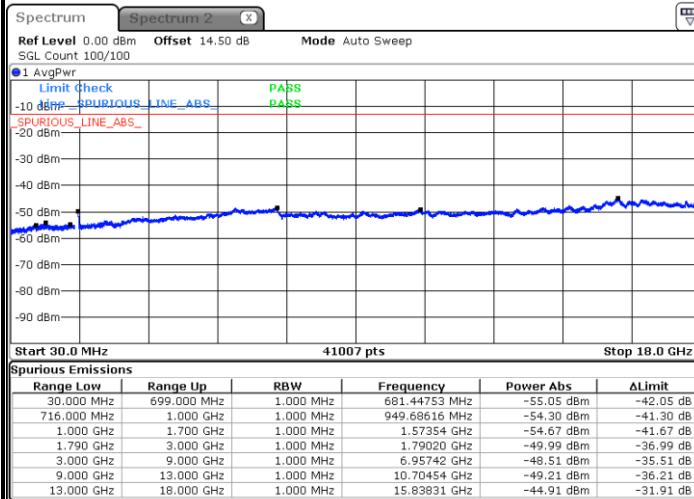
Date: 3.DEC.2020 03:52:21

Middle Channel / 16QAM



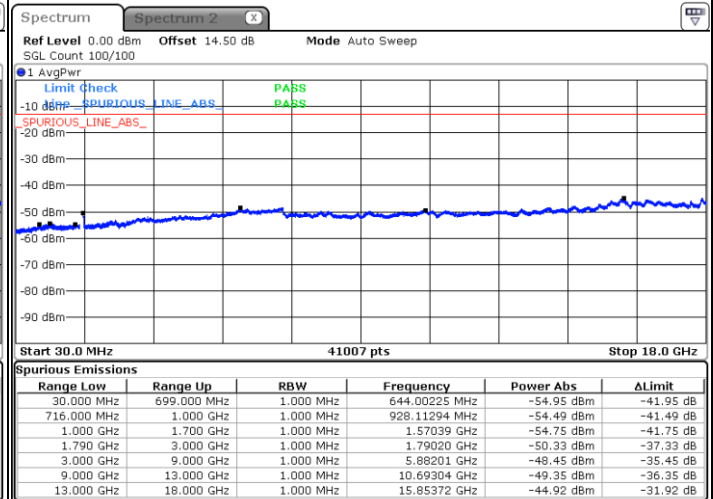
Date: 3.DEC.2020 03:53:12

Highest Channel / QPSK



Date: 3.DEC.2020 04:12:01

Highest Channel / 16QAM

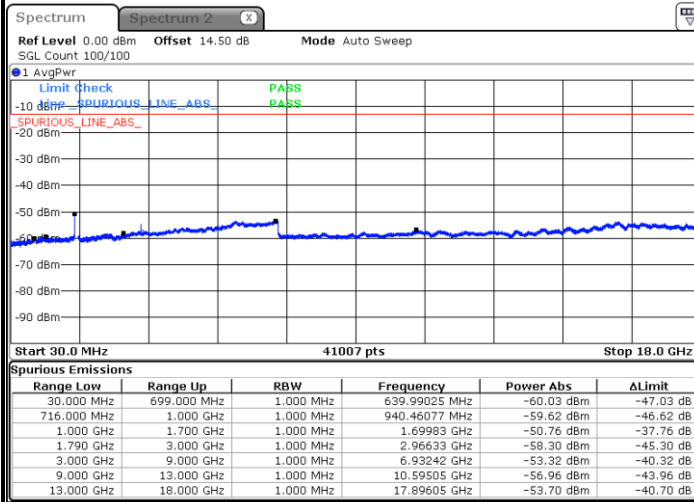


Date: 3.DEC.2020 04:10:42



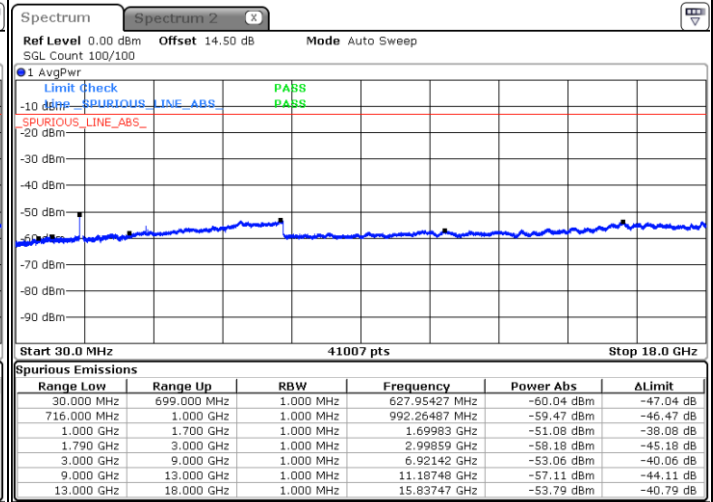
LTE Band 66 / 5MHz

Lowest Channel / QPSK



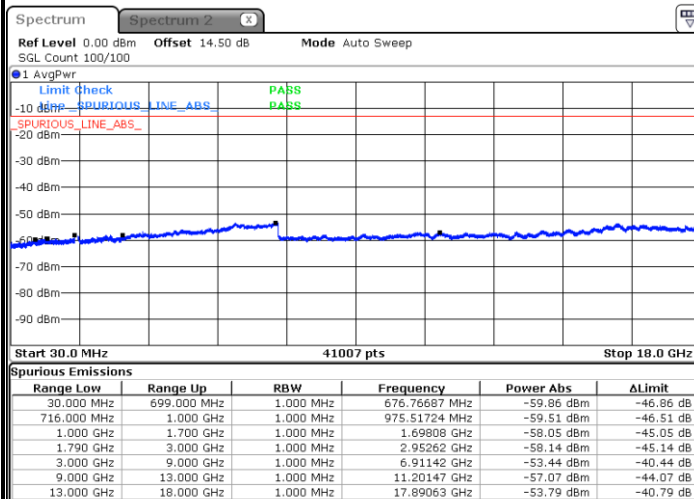
Date: 3.DEC.2020 03:13:57

Lowest Channel / 16QAM



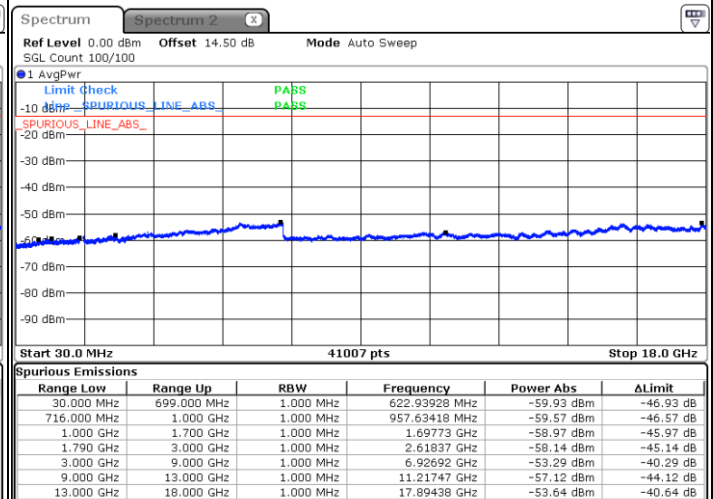
Date: 3.DEC.2020 03:12:28

Middle Channel / QPSK



Date: 3.DEC.2020 03:16:51

Middle Channel / 16QAM

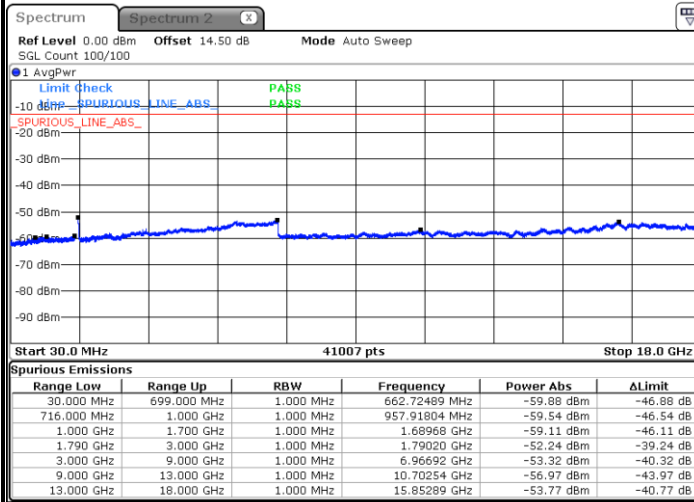


Date: 3.DEC.2020 03:18:16



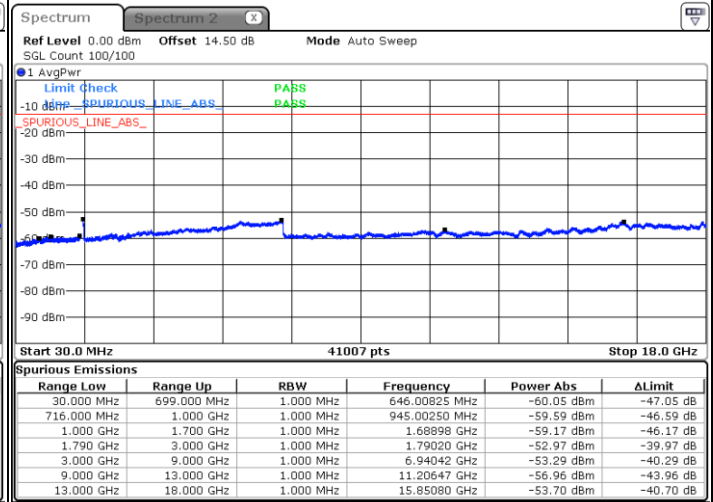
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 3.DEC.2020 03:27:10

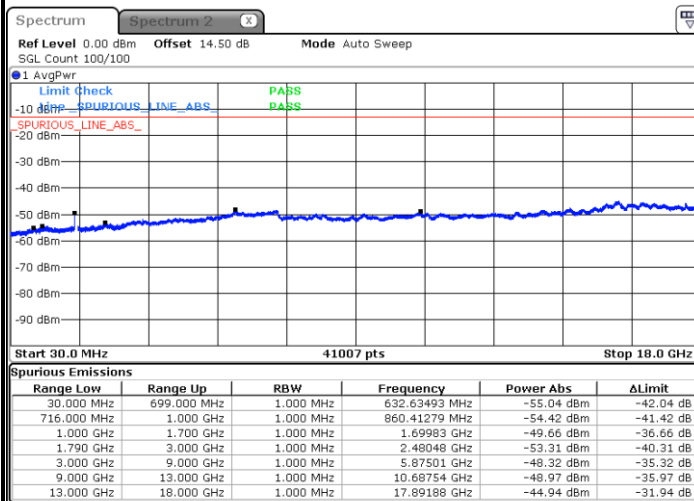
Highest Channel / 16QAM



Date: 3.DEC.2020 03:26:12

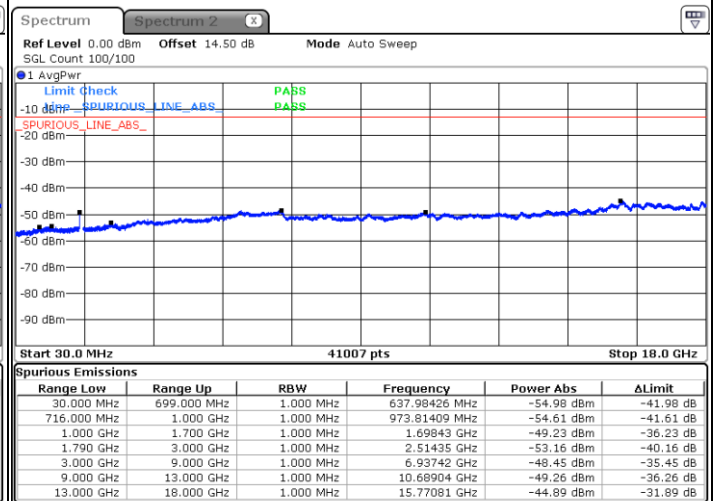
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 3.DEC.2020 01:52:29

Lowest Channel / 16QAM

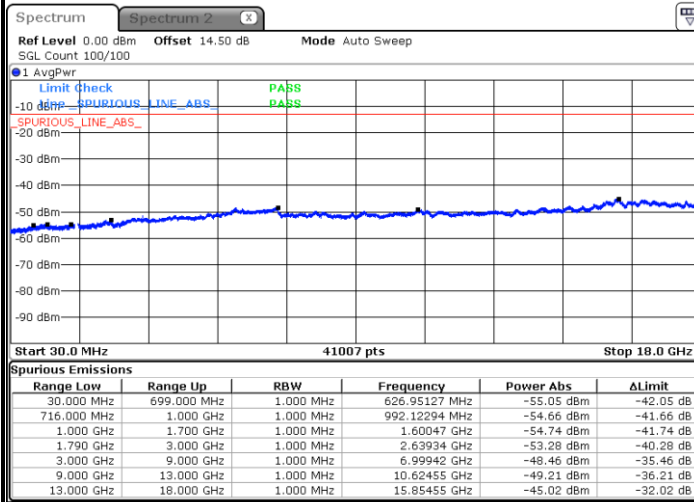


Date: 3.DEC.2020 01:36:00



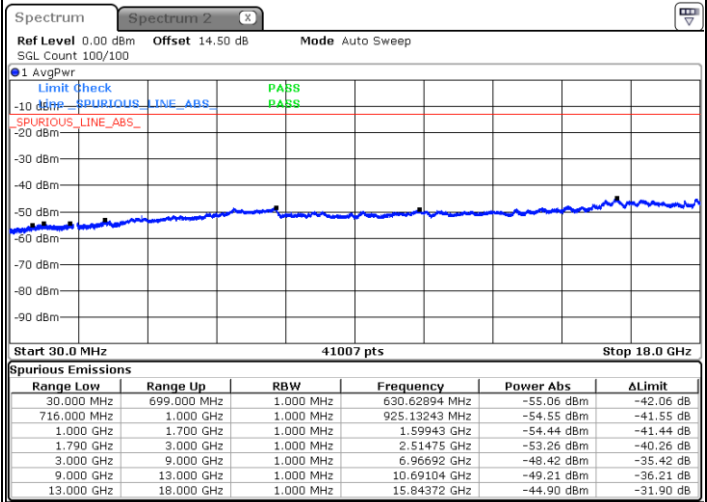
LTE Band 66 / 10MHz

Middle Channel / QPSK



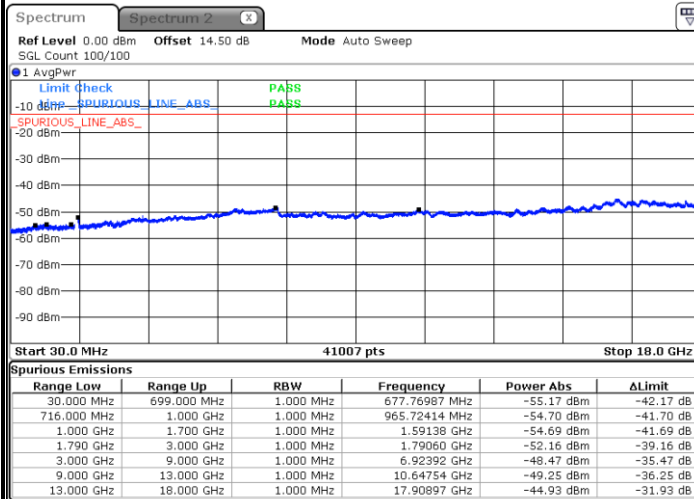
Date: 3.DEC.2020 01:56:47

Middle Channel / 16QAM



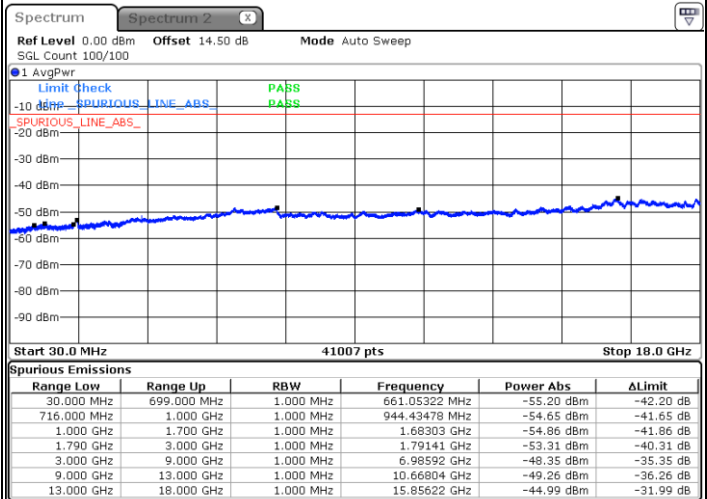
Date: 3.DEC.2020 02:00:17

Highest Channel / QPSK



Date: 3.DEC.2020 02:12:38

Highest Channel / 16QAM

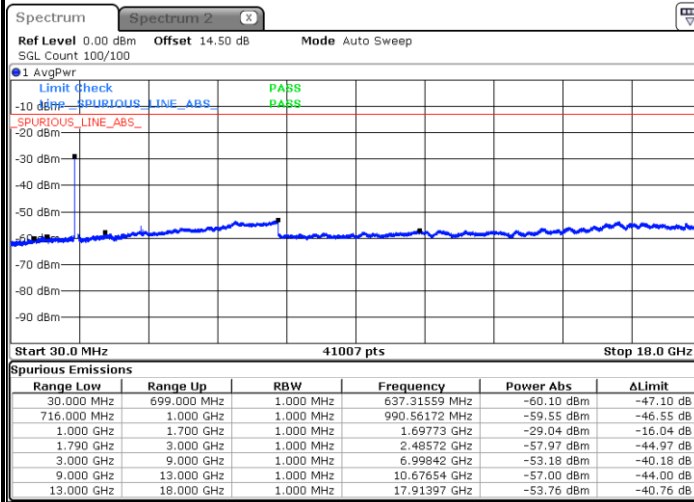


Date: 3.DEC.2020 02:11:49



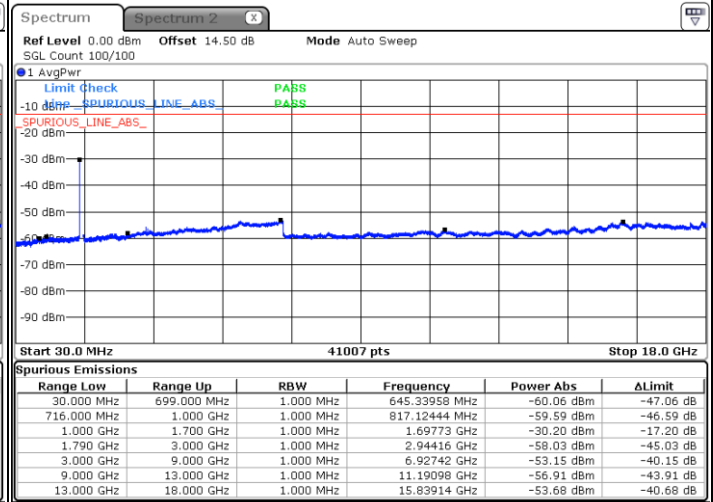
LTE Band 66 / 15MHz

Lowest Channel / QPSK



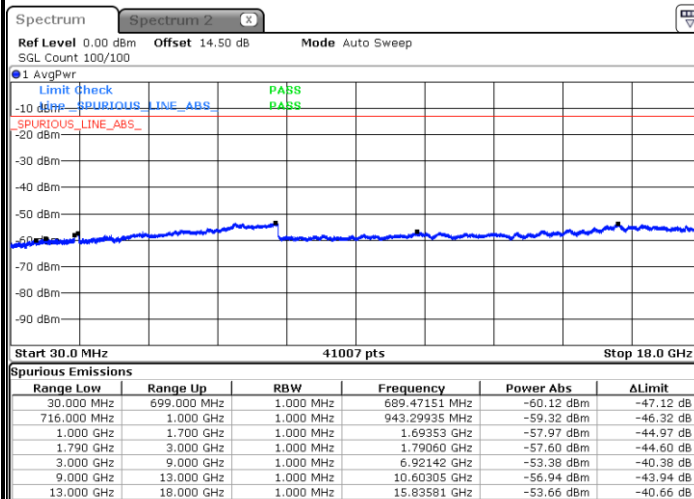
Date: 3.DEC.2020 01:08:19

Lowest Channel / 16QAM



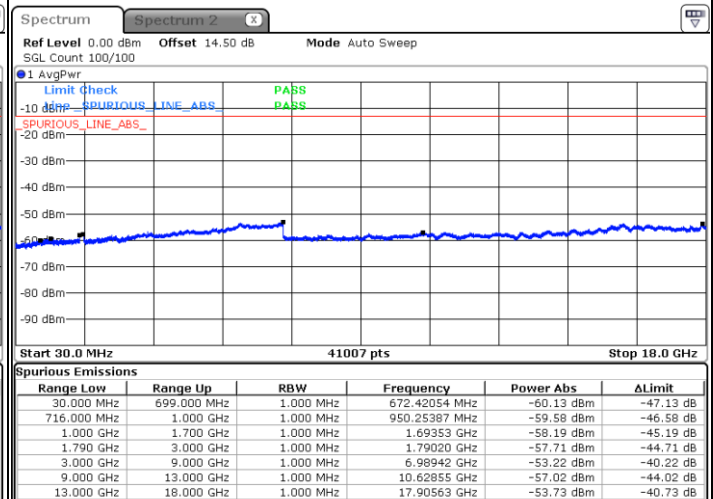
Date: 3.DEC.2020 01:10:14

Middle Channel / QPSK



Date: 3.DEC.2020 01:18:34

Middle Channel / 16QAM

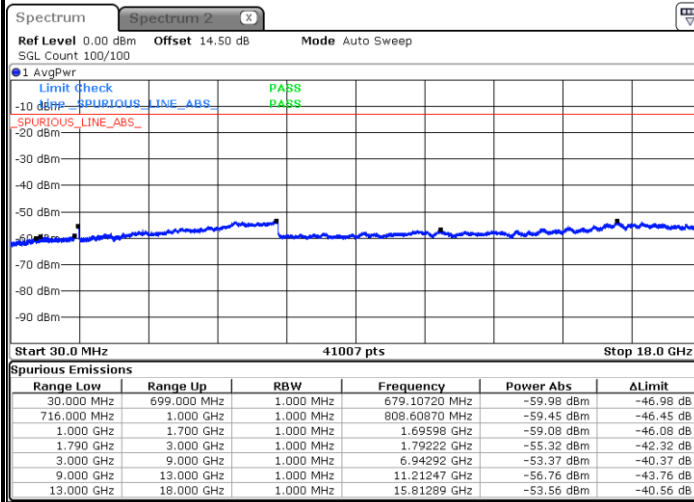


Date: 3.DEC.2020 01:17:13



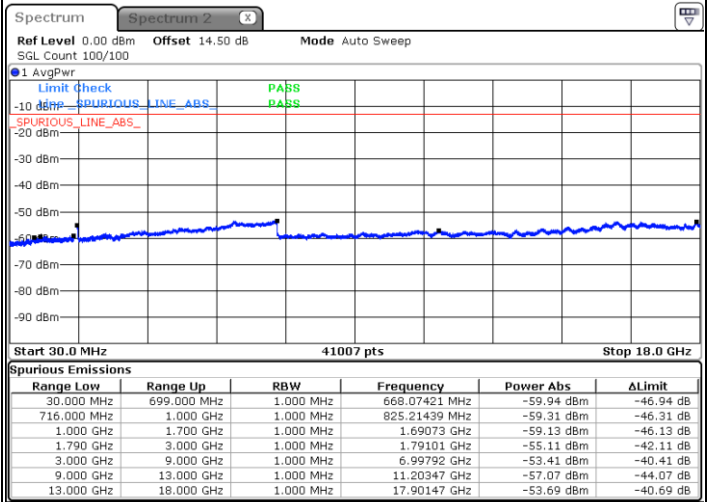
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 3.DEC.2020 01:20:28

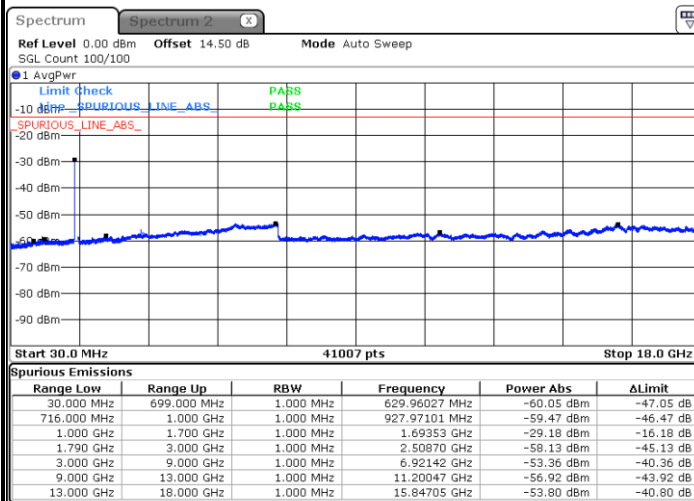
Highest Channel / 16QAM



Date: 3.DEC.2020 01:21:19

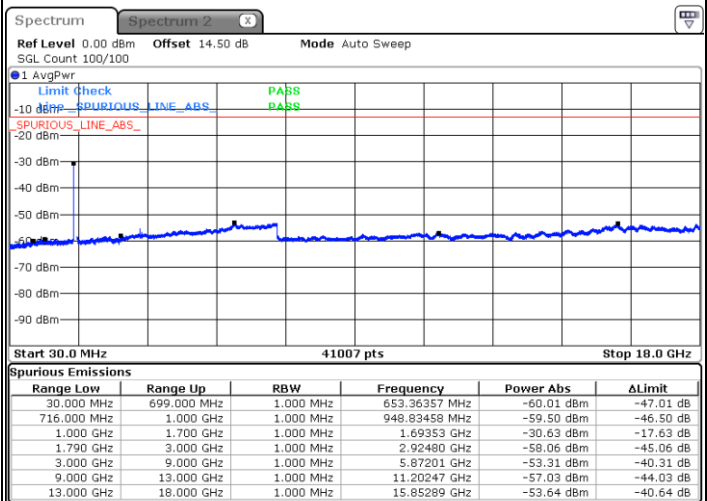
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 3.DEC.2020 00:01:23

Lowest Channel / 16QAM

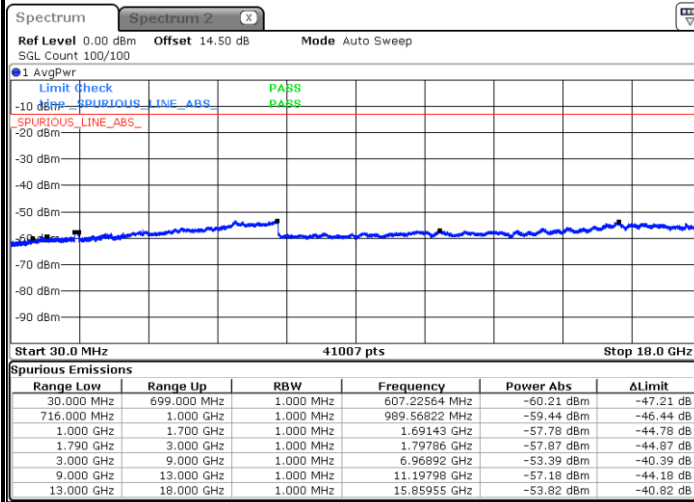


Date: 2.DEC.2020 23:59:49



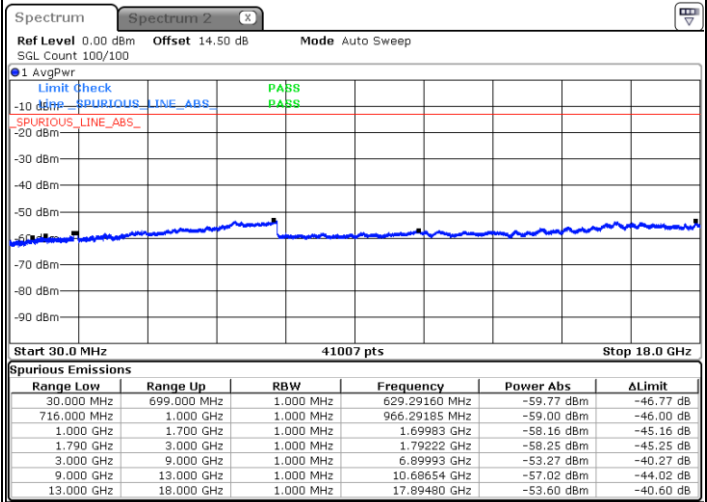
LTE Band 66 / 20MHz

Middle Channel / QPSK



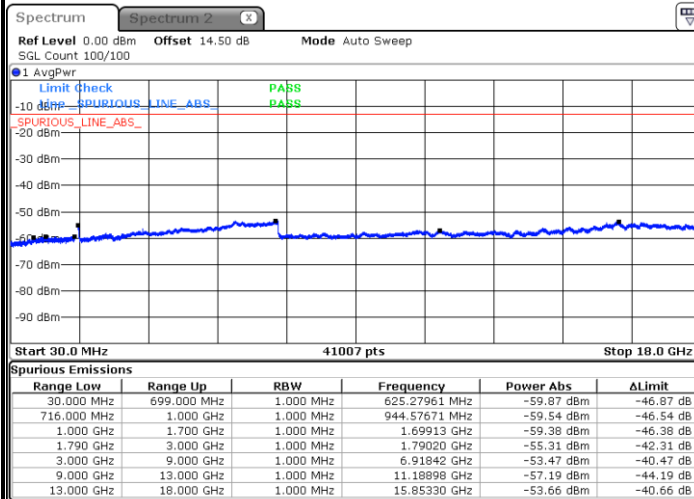
Date: 3.DEC.2020 00:04:09

Middle Channel / 16QAM



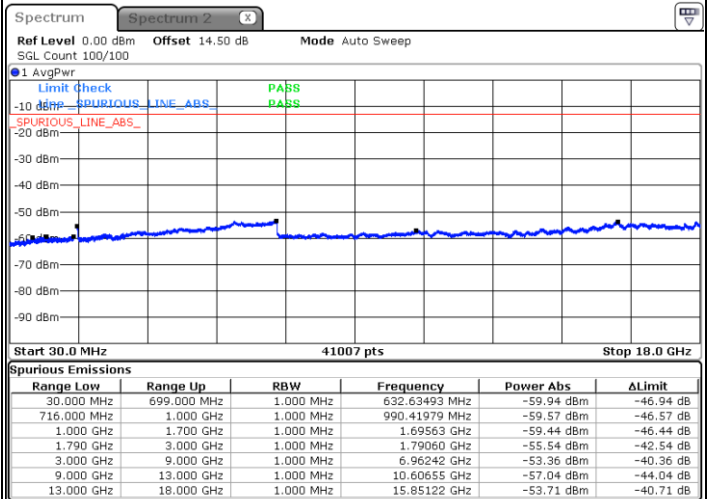
Date: 3.DEC.2020 00:24:27

Highest Channel / QPSK



Date: 3.DEC.2020 00:59:47

Highest Channel / 16QAM

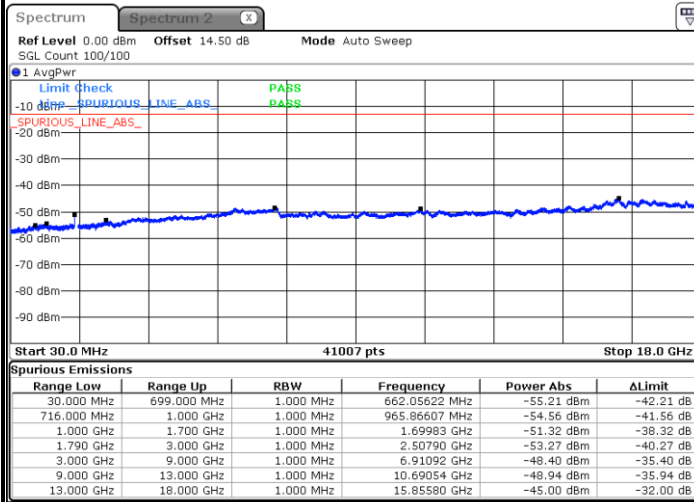


Date: 3.DEC.2020 00:57:24



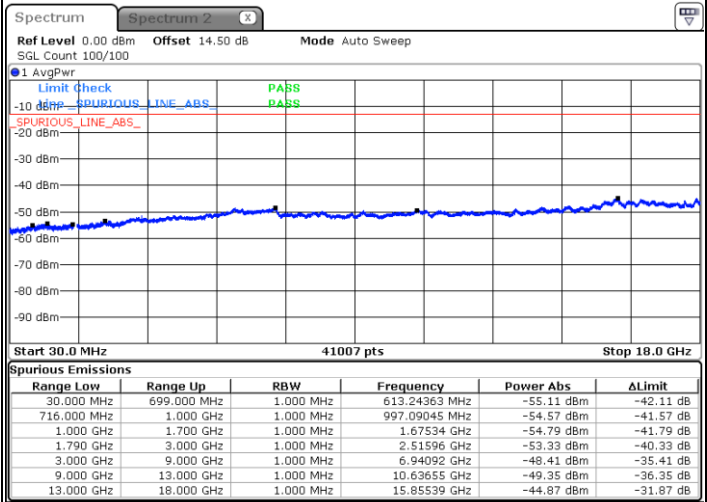
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



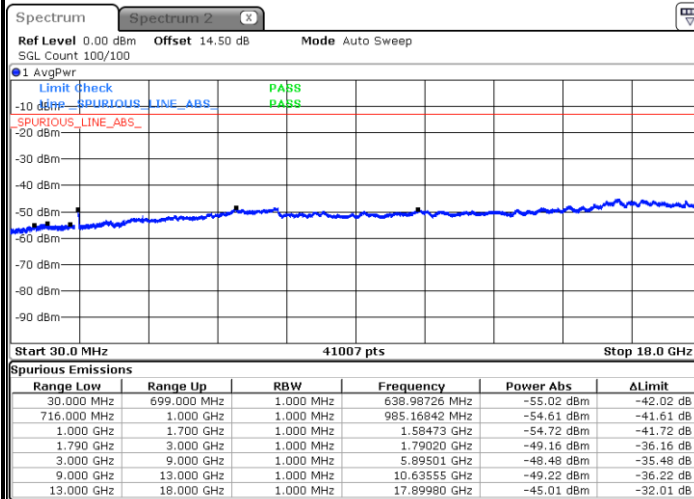
Date: 3.DEC.2020 04:31:04

Middle Channel / 64QAM



Date: 3.DEC.2020 04:42:30

Highest Channel / 64QAM

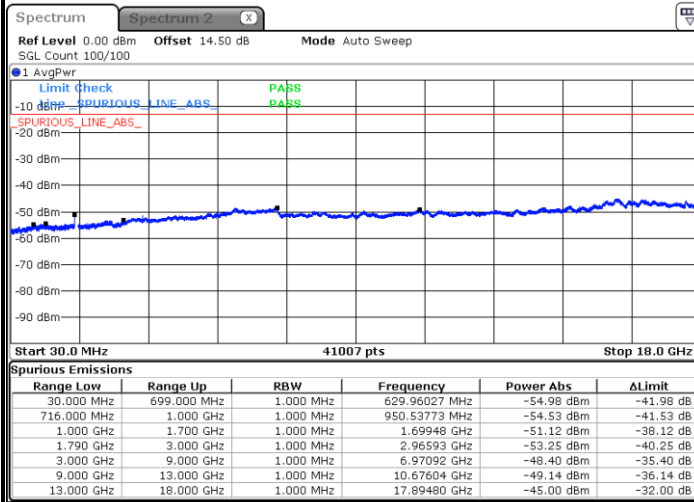


Date: 3.DEC.2020 04:50:09



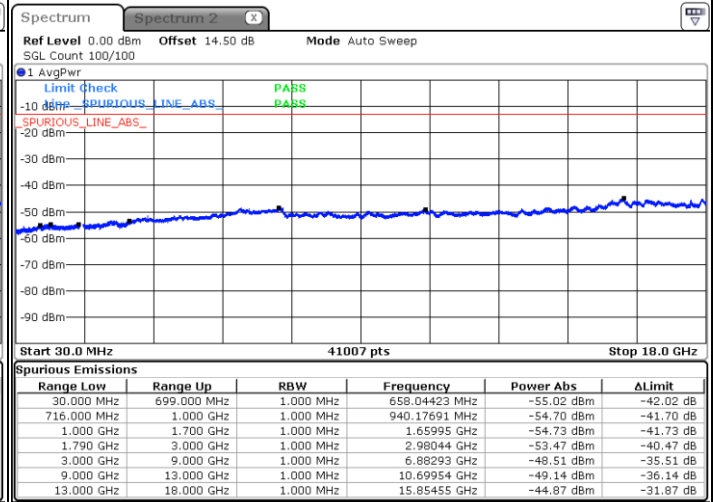
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



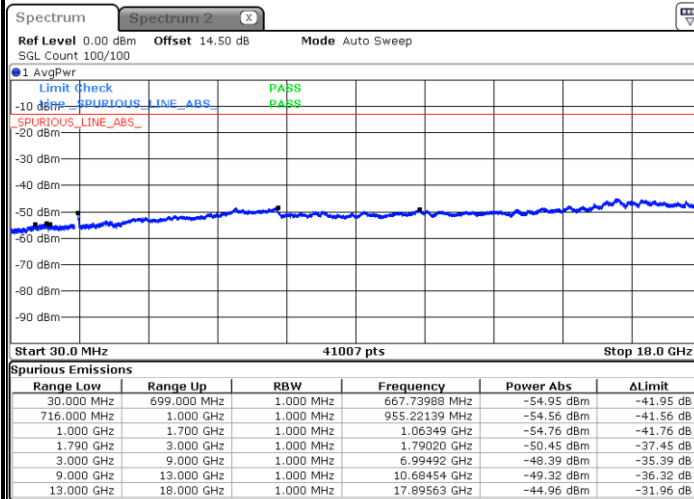
Date: 3.DEC.2020 03:45:19

Middle Channel / 64QAM



Date: 3.DEC.2020 03:54:52

Highest Channel / 64QAM

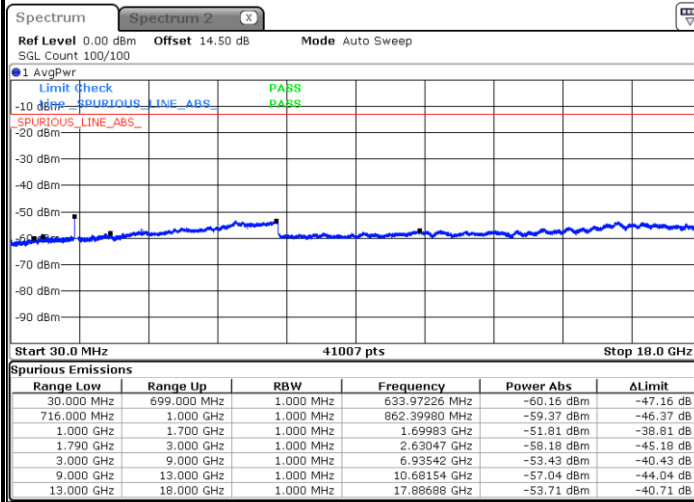


Date: 3.DEC.2020 04:07:57



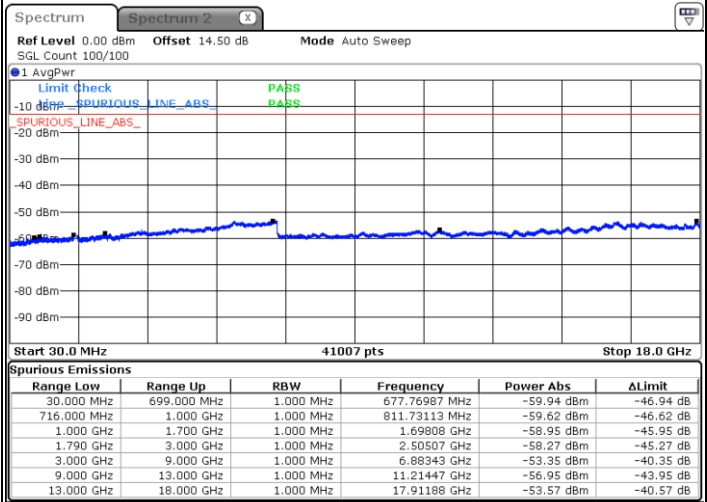
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



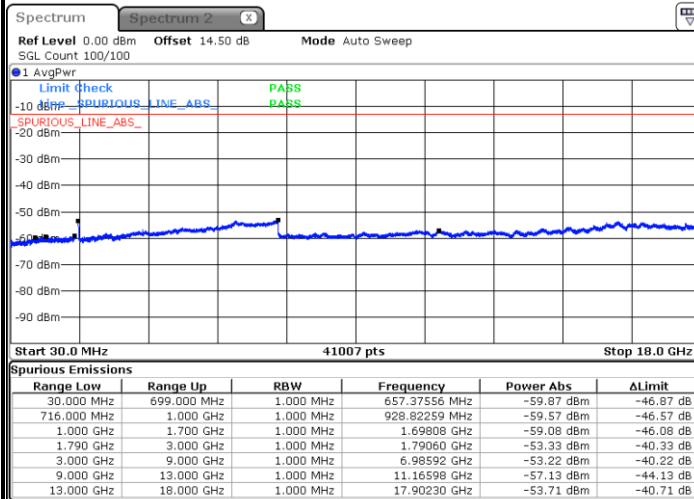
Date: 3.DEC.2020 03:09:20

Middle Channel / 64QAM



Date: 3.DEC.2020 03:19:18

Highest Channel / 64QAM

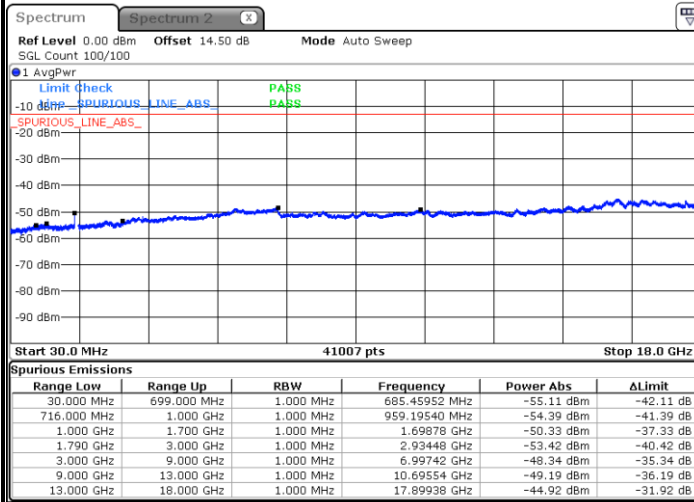


Date: 3.DEC.2020 03:25:23



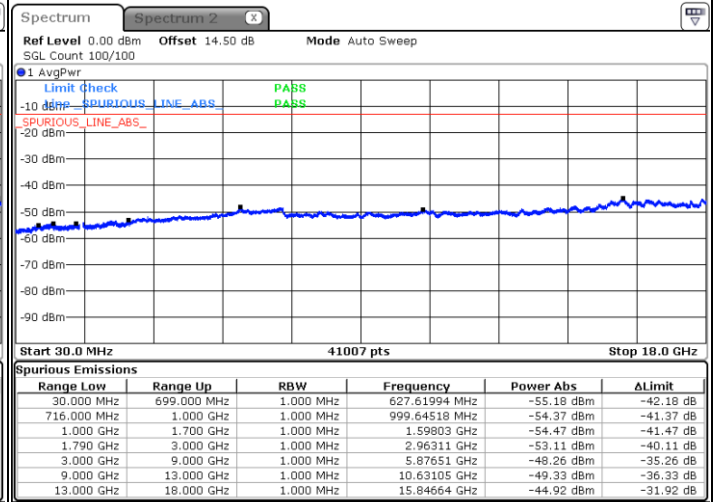
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



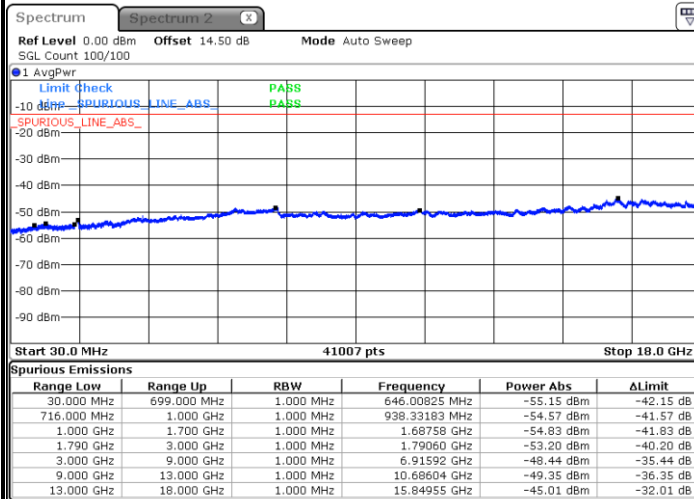
Date: 3.DEC.2020 01:34:26

Middle Channel / 64QAM



Date: 3.DEC.2020 02:01:26

Highest Channel / 64QAM

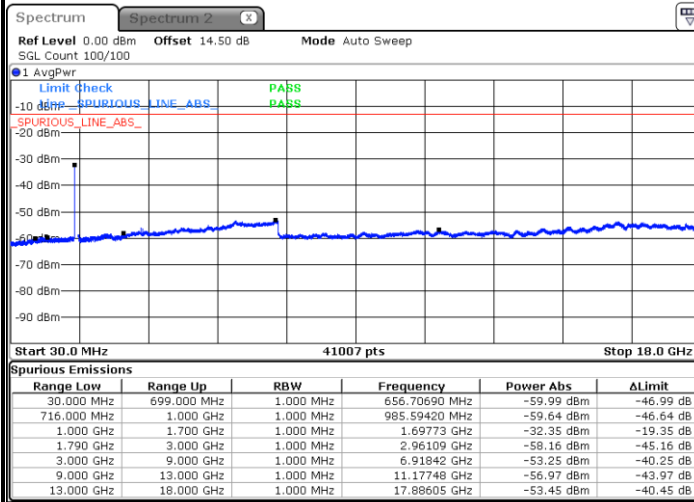


Date: 3.DEC.2020 02:09:34



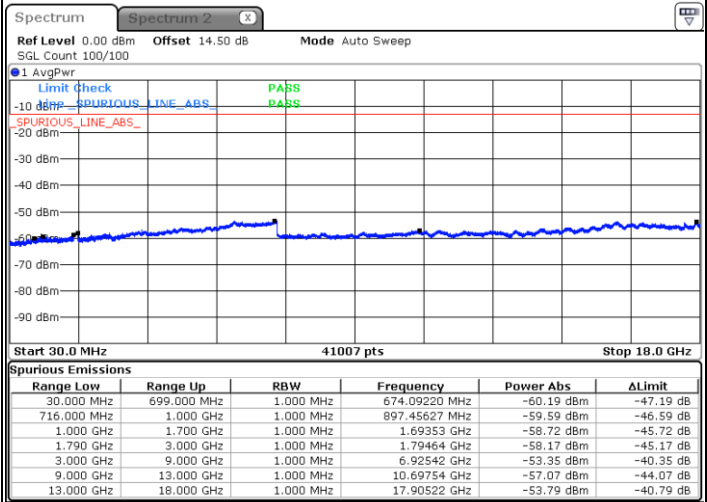
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



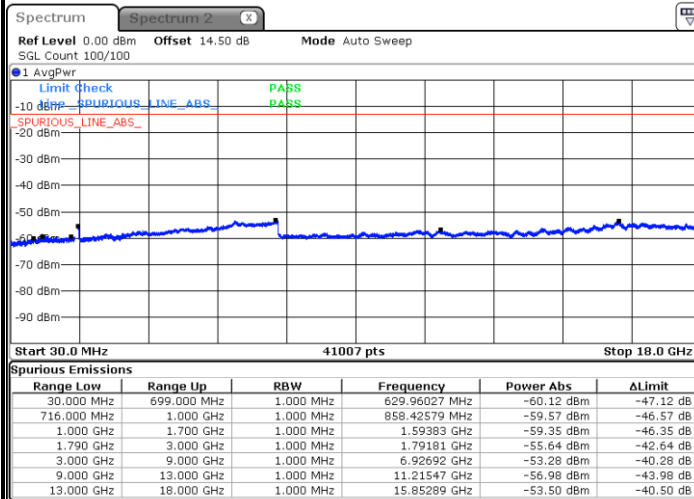
Date: 3.DEC.2020 01:14:55

Middle Channel / 64QAM



Date: 3.DEC.2020 01:16:13

Highest Channel / 64QAM

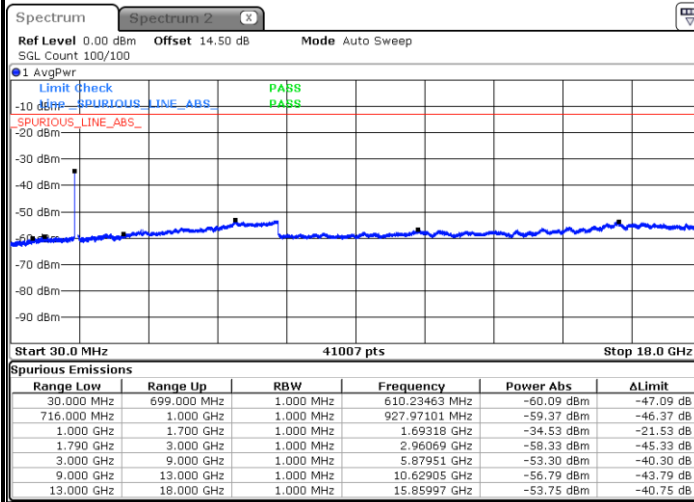


Date: 3.DEC.2020 01:22:31



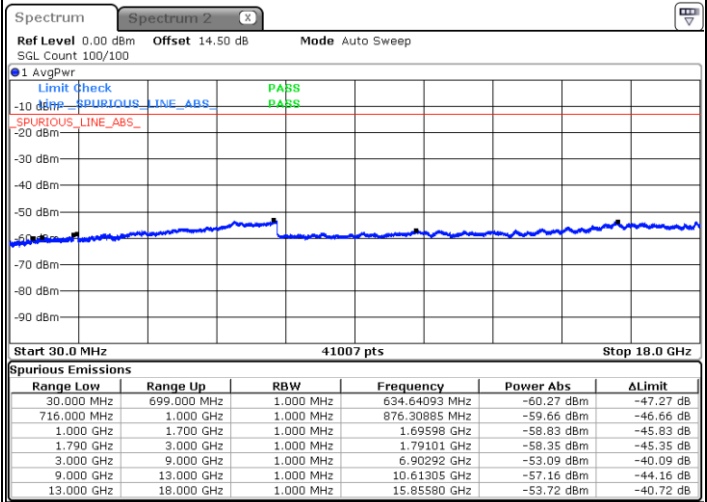
LTE Band 66 / 20MHz

Lowest Channel / 64QAM



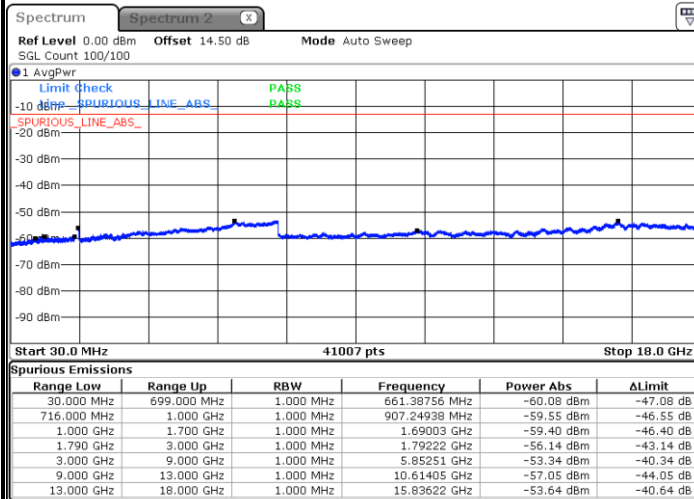
Date: 2.DEC.2020 23:57:38

Middle Channel / 64QAM



Date: 3.DEC.2020 00:25:14

Highest Channel / 64QAM



Date: 3.DEC.2020 00:56:30

**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	0.0002	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =7.2 V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Top Antenna

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-61.66	-13	-48.66	-71.81	-64.91	4.00	9.40	H
	2109	-47.02	-13	-34.02	-60.02	-50.59	4.88	10.60	H
	2812	-59.59	-13	-46.59	-75.41	-64.52	5.52	12.60	H
	1406	-62.26	-13	-49.26	-71.97	-65.51	4.00	9.40	V
	2109	-30.24	-13	-17.24	-43.19	-33.81	4.88	10.60	V
	2812	-59.44	-13	-46.44	-75.45	-64.37	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-63.71	-42.15	-21.56	-73.46	-66.96	4.00	9.40	H
	2339.25	-58.53	-13	-45.53	-73.15	-62.10	4.88	10.60	H
	3119	-59.58	-13	-46.58	-76.70	-64.51	5.52	12.60	H
	1559.5	-63.92	-42.15	-21.77	-73.75	-67.17	4.00	9.40	V
	2339.25	-58.87	-13	-45.87	-73.49	-62.44	4.88	10.60	V
	3119	-59.42	-13	-46.42	-76.58	-64.35	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-63.94	-42.15	-21.79	-73.69	-67.19	4.00	9.40	H
	2339.25	-61.10	-13	-48.10	-75.72	-64.67	4.88	10.60	H
	3119	-59.44	-13	-46.44	-76.56	-64.37	5.52	12.60	H
	1559.5	-63.60	-42.15	-21.45	-73.43	-66.85	4.00	9.40	V
	2339.25	-61.27	-13	-48.27	-75.89	-64.84	4.88	10.60	V
	3119	-59.41	-13	-46.41	-76.57	-64.34	5.52	12.60	V

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



LTE Band 25 / 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)
Middle	3747	-57.11	-13	-44.11	-79.45	-63.86	5.85	12.60	H
	5620.5	-57.01	-13	-44.01	-81.21	-62.81	7.30	13.10	H
	7494	-55.20	-13	-42.20	-81.60	-58.35	8.35	11.50	H
	3747	-54.45	-13	-41.45	-79.95	-61.20	5.85	12.60	V
	5620.5	-56.18	-13	-43.18	-80.88	-61.98	7.30	13.10	V
	7494	-55.18	-13	-42.18	-81.57	-58.33	8.35	11.50	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659.5	-64.10	-13	-51.10	-73.83	-67.35	4.00	9.40	H
	2489.25	-58.61	-13	-45.61	-72.85	-62.18	4.88	10.60	H
	3319	-60.73	-13	-47.73	-77.37	-65.66	5.52	12.60	H
	1659.5	-64.54	-13	-51.54	-73.87	-67.79	4.00	9.40	V
	2489.25	-59.55	-13	-46.55	-73.75	-63.12	4.88	10.60	V
	3319	-61.07	-13	-48.07	-77.49	-66.00	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-58.54	-13	-45.54	-76.00	-65.39	5.65	12.50	H
	5208	-55.35	-13	-42.35	-77.89	-61.02	7.13	12.80	H
	6944	-51.20	-13	-38.20	-77.48	-54.60	8.40	11.80	H
	3472	-58.59	-13	-45.59	-76.07	-65.44	5.65	12.50	V
	5208	-55.59	-13	-42.59	-78.38	-61.26	7.13	12.80	V
	6944	-51.09	-13	-38.09	-77.84	-54.49	8.40	11.80	V

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



Bottom Antenna

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-62.84	-13	-49.84	-72.99	-66.09	4.00	9.40	H
	2109	-56.06	-13	-43.06	-69.06	-59.63	4.88	10.60	H
	2812	-60.07	-13	-47.07	-75.89	-65.00	5.52	12.60	H
	1406	-63.04	-13	-50.04	-72.75	-66.29	4.00	9.40	V
	2109	-57.24	-13	-44.24	-70.19	-60.81	4.88	10.60	V
	2812	-59.71	-13	-46.71	-75.72	-64.64	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-64.09	-42.15	-21.94	-73.84	-67.34	4.00	9.40	H
	2339.25	-60.95	-13	-47.95	-75.57	-64.52	4.88	10.60	H
	3119	-59.47	-13	-46.47	-76.59	-64.40	5.52	12.60	H
	1559.5	-63.80	-42.15	-21.65	-73.63	-67.05	4.00	9.40	V
	2339.25	-60.22	-13	-47.22	-74.84	-63.79	4.88	10.60	V
	3119	-59.41	-13	-46.41	-76.57	-64.34	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-63.46	-42.15	-21.31	-73.21	-66.71	4.00	9.40	H
	2339.25	-61.21	-13	-48.21	-75.83	-64.78	4.88	10.60	H
	3119	-59.59	-13	-46.59	-76.71	-64.52	5.52	12.60	H
	1559.5	-63.80	-42.15	-21.65	-73.63	-67.05	4.00	9.40	V
	2339.25	-61.40	-13	-48.40	-76.02	-64.97	4.88	10.60	V
	3119	-59.41	-13	-46.41	-76.57	-64.34	5.52	12.60	V

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



LTE Band 25 / 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)
Middle	3747	-57.12	-13	-44.12	-79.46	-63.87	5.85	12.60	H
	5620.5	-55.22	-13	-42.22	-79.42	-61.02	7.30	13.10	H
	7494	-55.04	-13	-42.04	-81.44	-58.19	8.35	11.50	H
	3747	-53.80	-13	-40.80	-79.3	-60.55	5.85	12.60	V
	5620.5	-53.48	-13	-40.48	-78.18	-59.28	7.30	13.10	V
	7494	-55.23	-13	-42.23	-81.62	-58.38	8.35	11.50	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659.5	-63.80	-13	-50.80	-73.53	-67.05	4.00	9.40	H
	2489.25	-58.65	-13	-45.65	-72.89	-62.22	4.88	10.60	H
	3319	-60.72	-13	-47.72	-77.36	-65.65	5.52	12.60	H
	1659.5	-64.23	-13	-51.23	-73.56	-67.48	4.00	9.40	V
	2489.25	-59.04	-13	-46.04	-73.24	-62.61	4.88	10.60	V
	3319	-60.82	-13	-47.82	-77.24	-65.75	5.52	12.60	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-52.31	-13	-39.31	-69.77	-59.16	5.65	12.50	H
	5208	-54.01	-13	-41.01	-76.55	-59.68	7.13	12.80	H
	6944	-53.05	-13	-40.05	-79.33	-56.45	8.40	11.80	H
	3472	-51.67	-13	-38.67	-69.15	-58.52	5.65	12.50	V
	5208	-52.67	-13	-39.67	-75.46	-58.34	7.13	12.80	V
	6944	-52.66	-13	-39.66	-79.41	-56.06	8.40	11.80	V

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