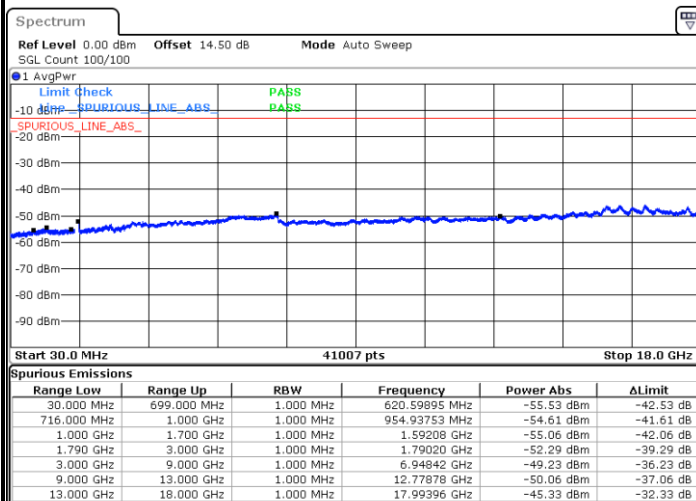




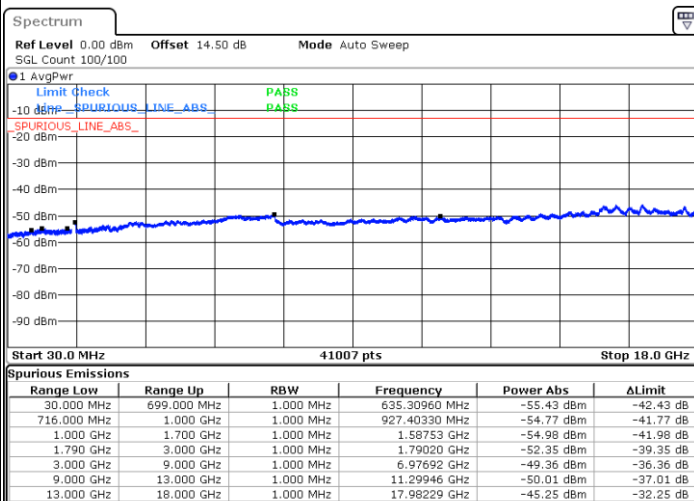
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 1.DEC.2020 00:38:09

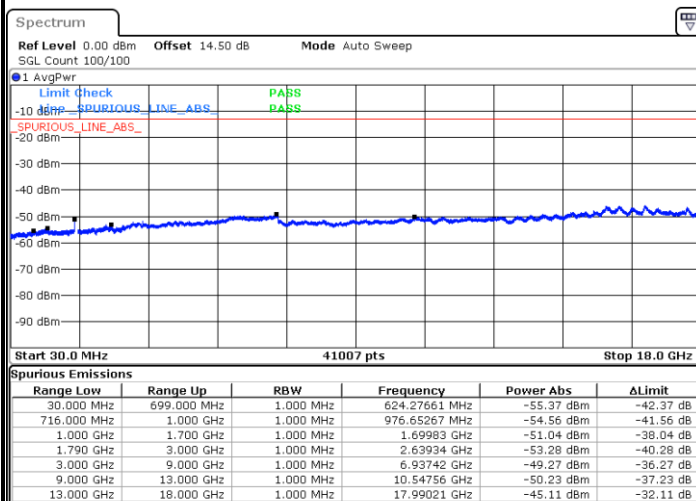
Highest Channel / 16QAM



Date: 1.DEC.2020 00:42:33

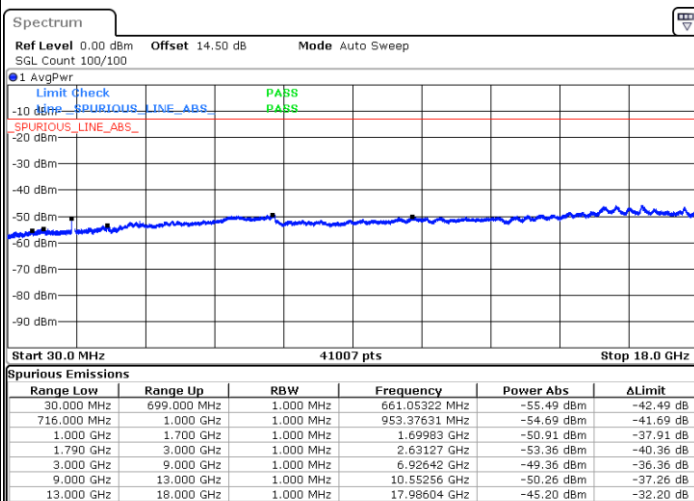
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 30.NOV.2020 22:17:36

Lowest Channel / 16QAM

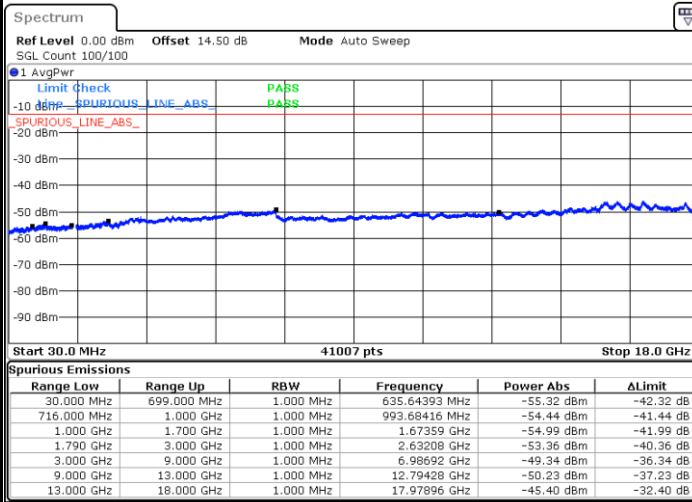


Date: 30.NOV.2020 22:16:13



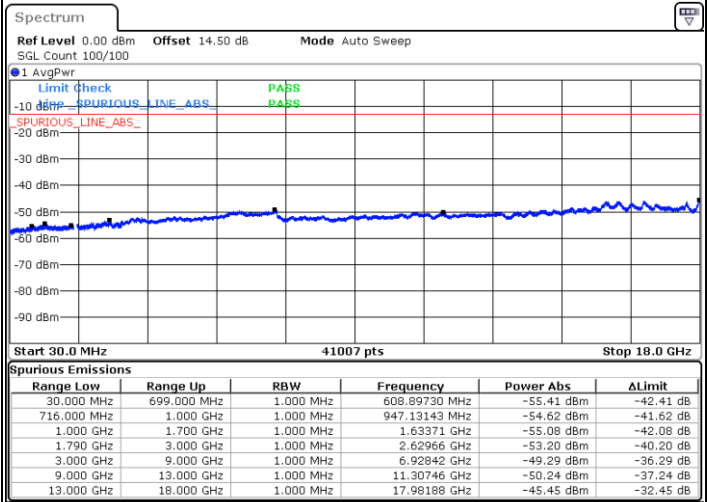
LTE Band 66 / 10MHz

Middle Channel / QPSK



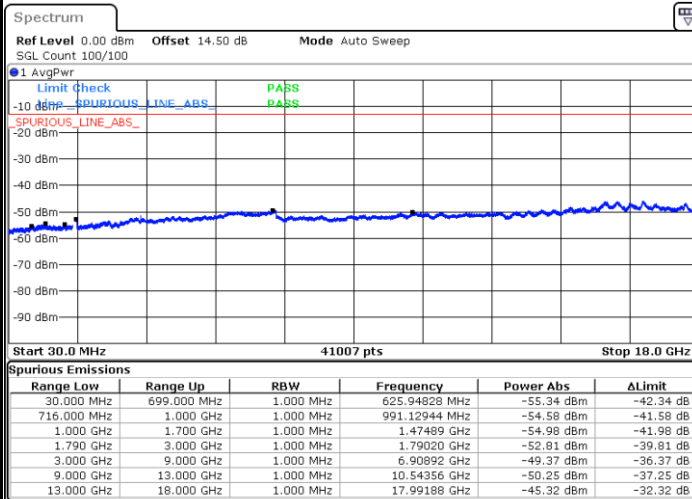
Date: 30.NOV.2020 22:26:35

Middle Channel / 16QAM



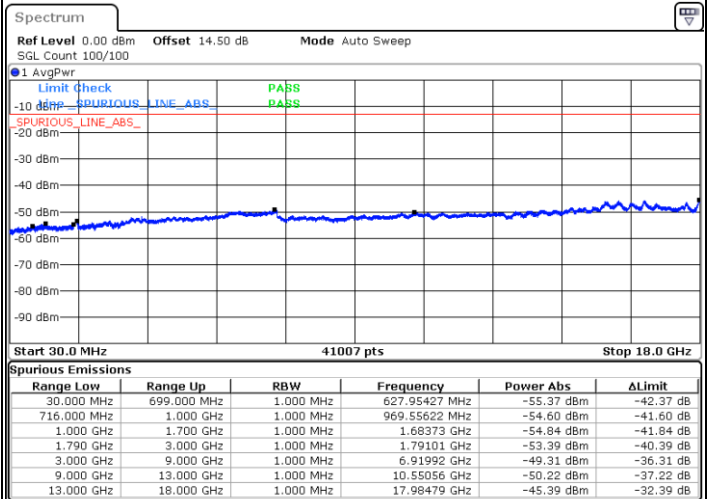
Date: 30.NOV.2020 22:24:37

Highest Channel / QPSK



Date: 30.NOV.2020 22:44:00

Highest Channel / 16QAM

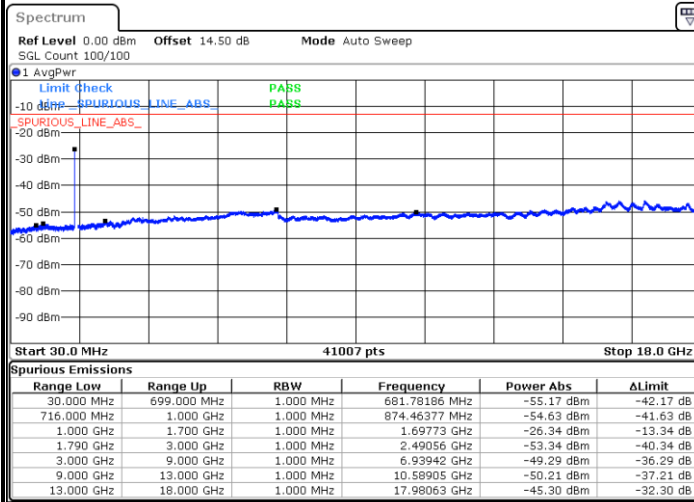


Date: 30.NOV.2020 22:41:09



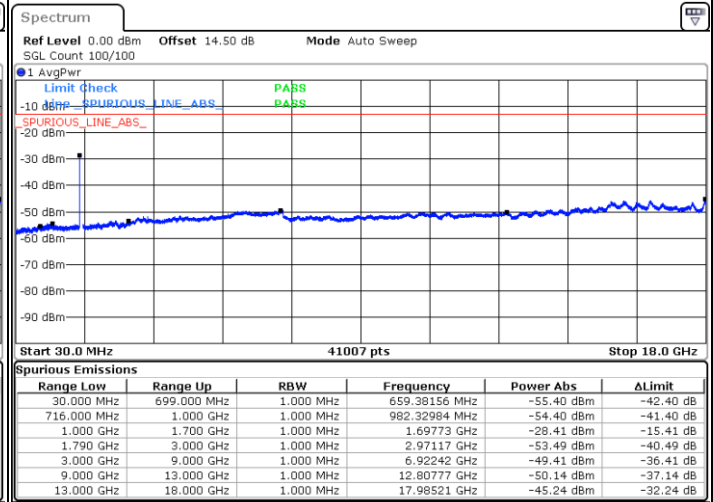
LTE Band 66 / 15MHz

Lowest Channel / QPSK



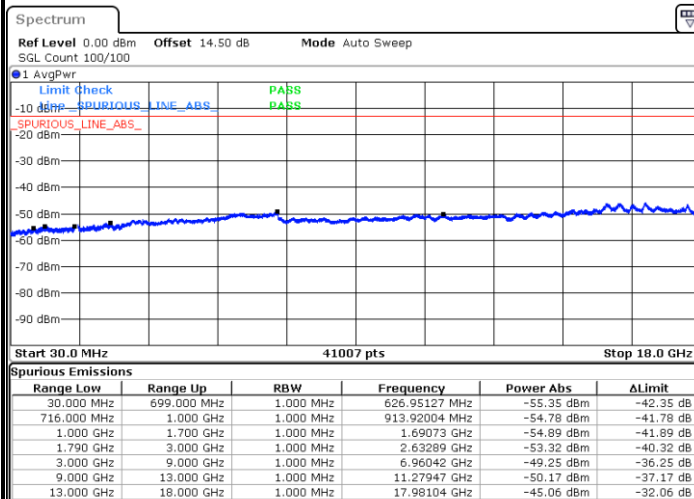
Date: 30.NOV.2020 21:38:41

Lowest Channel / 16QAM



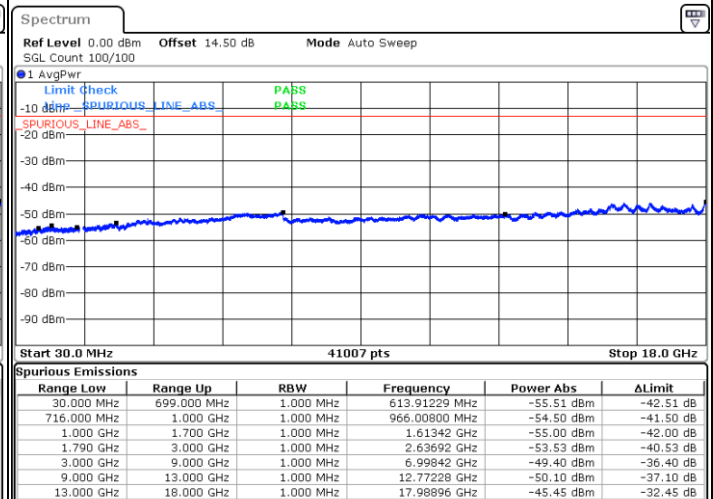
Date: 30.NOV.2020 21:36:36

Middle Channel / QPSK



Date: 30.NOV.2020 21:51:16

Middle Channel / 16QAM

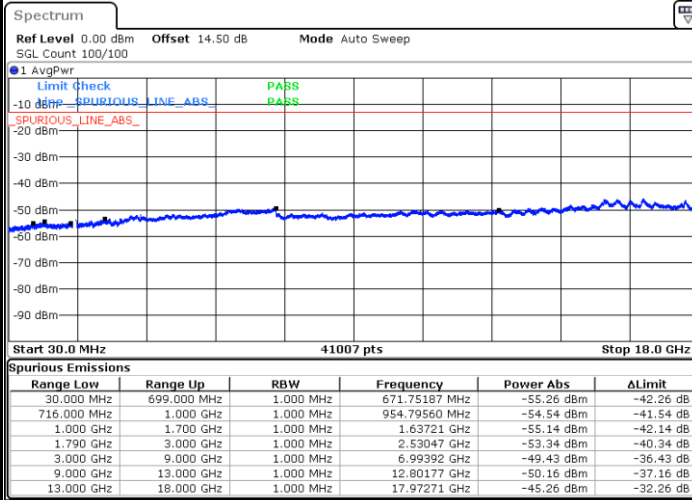


Date: 30.NOV.2020 21:48:06



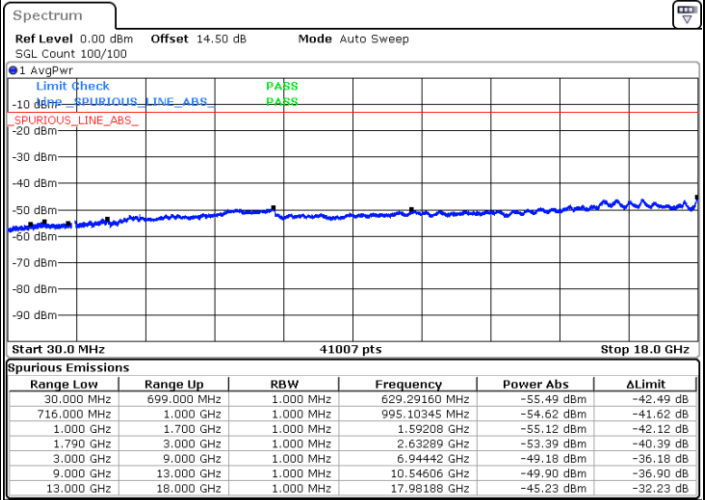
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 30.NOV.2020 22:05:45

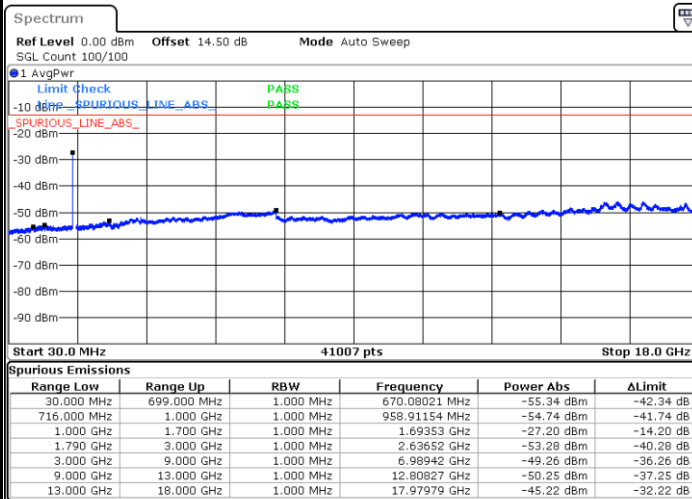
Highest Channel / 16QAM



Date: 30.NOV.2020 22:04:38

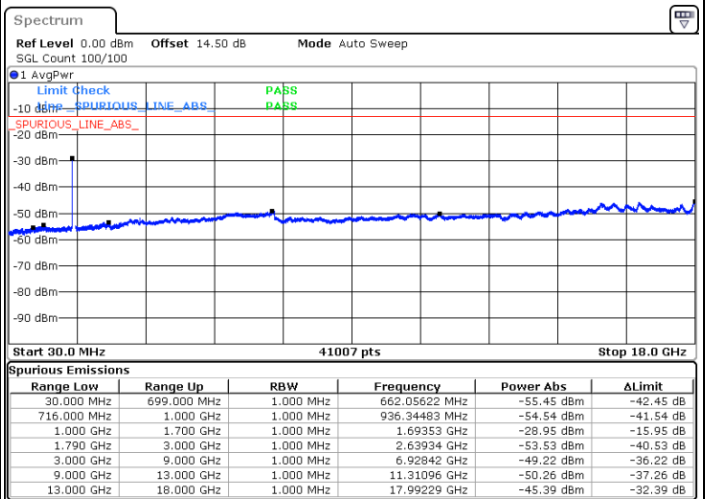
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 30.NOV.2020 21:05:17

Lowest Channel / 16QAM

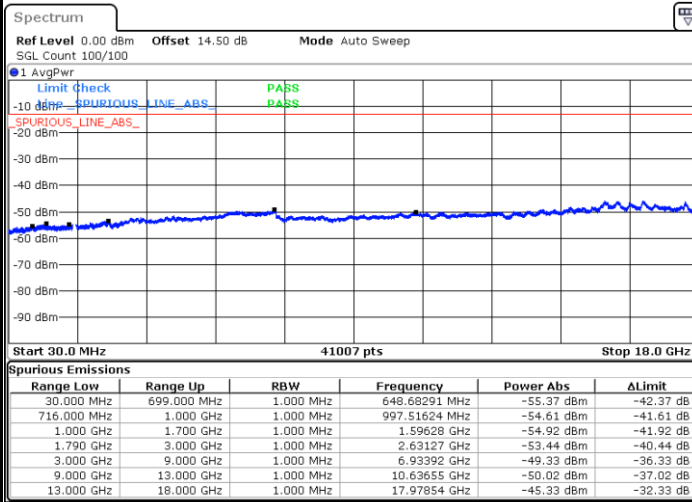


Date: 30.NOV.2020 20:31:42



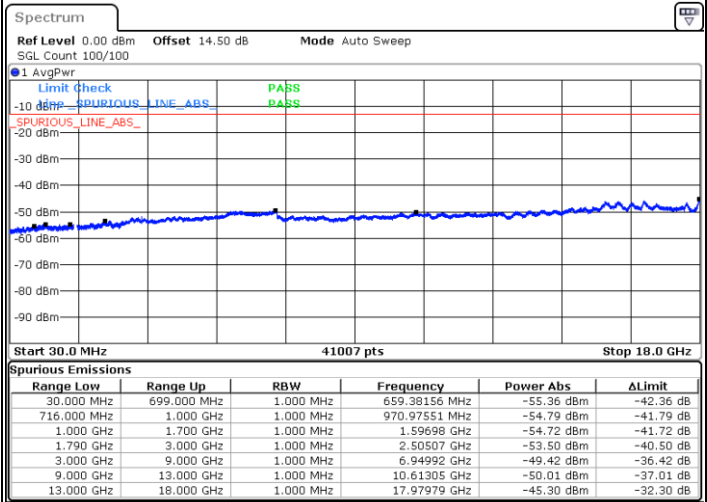
LTE Band 66 / 20MHz

Middle Channel / QPSK



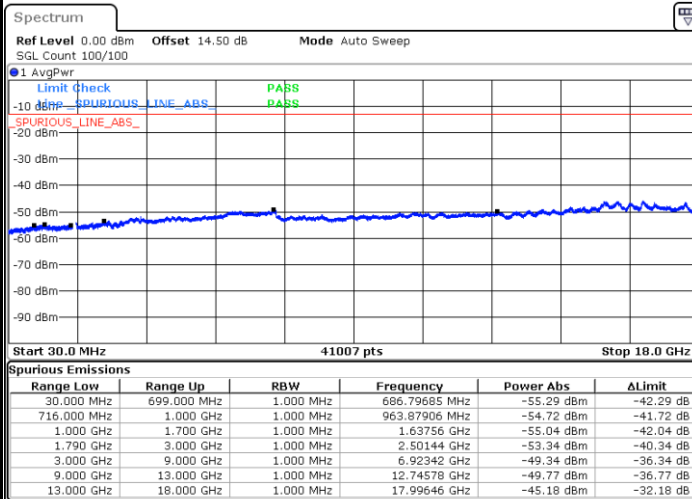
Date: 30.NOV.2020 21:19:50

Middle Channel / 16QAM



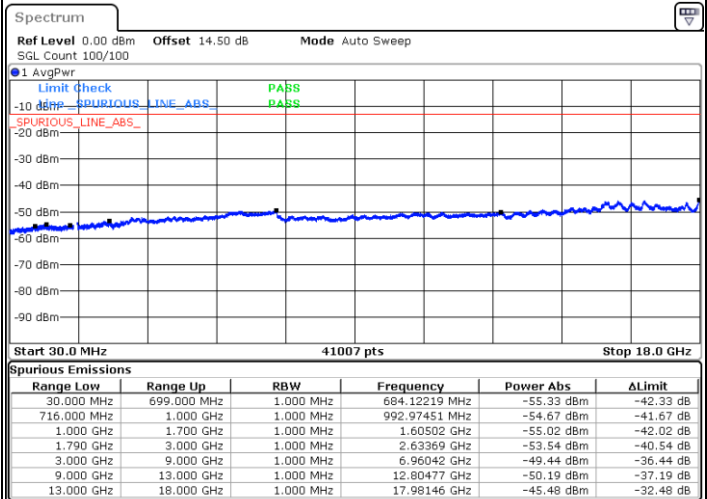
Date: 30.NOV.2020 21:18:07

Highest Channel / QPSK



Date: 30.NOV.2020 21:27:51

Highest Channel / 16QAM

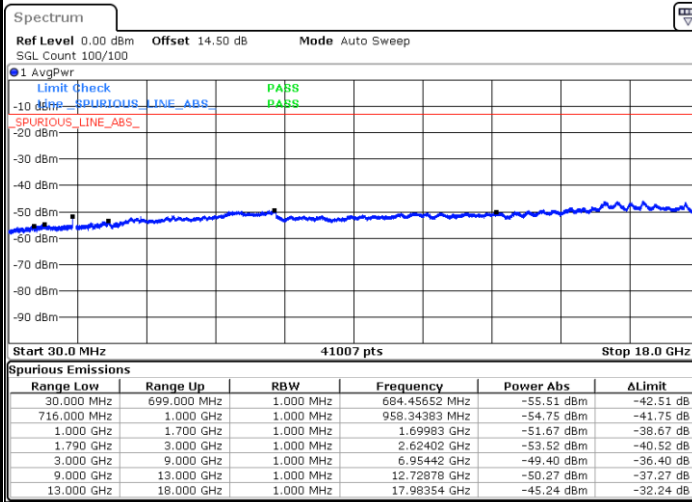


Date: 30.NOV.2020 21:26:05



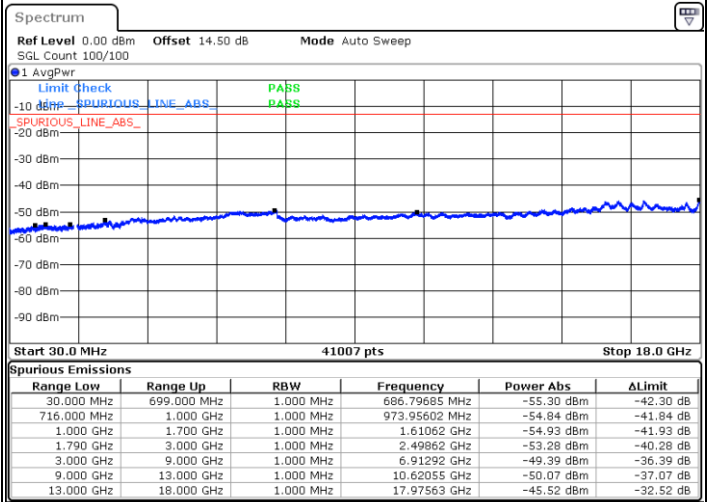
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



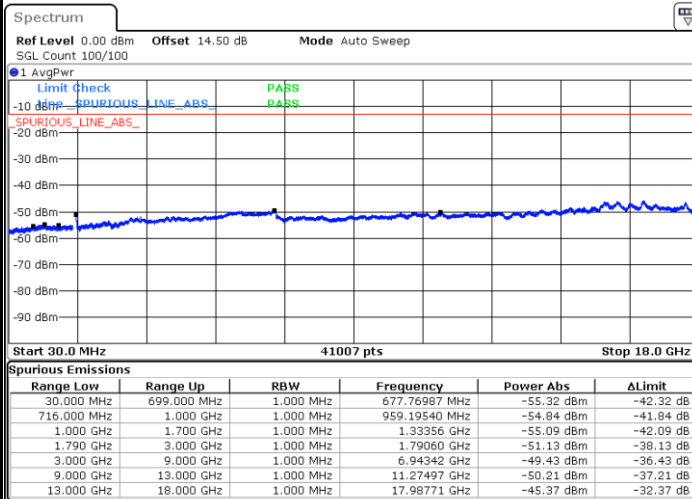
Date: 1.DEC.2020 03:45:04

Middle Channel / 64QAM



Date: 1.DEC.2020 03:55:01

Highest Channel / 64QAM

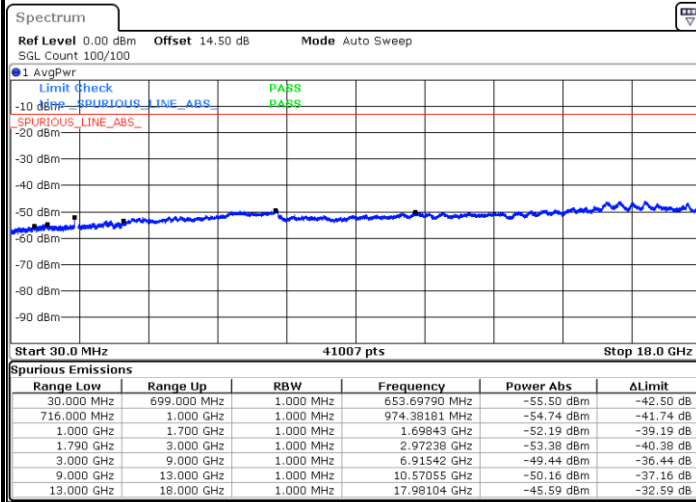


Date: 1.DEC.2020 04:31:56



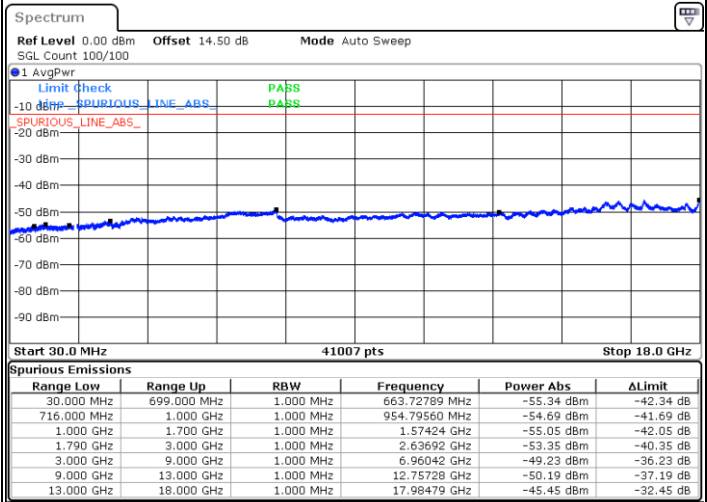
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



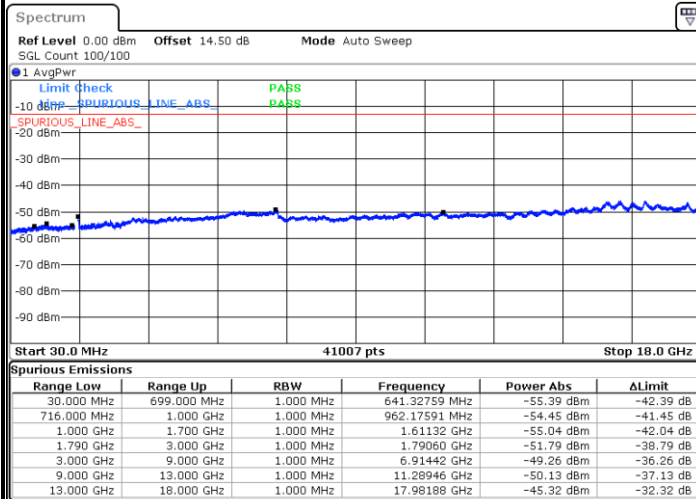
Date: 1.DEC.2020 01:49:06

Middle Channel / 64QAM



Date: 1.DEC.2020 02:18:02

Highest Channel / 64QAM

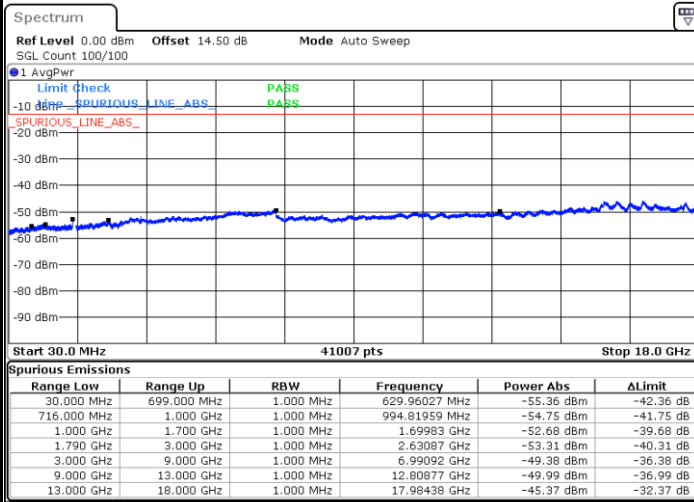


Date: 1.DEC.2020 02:53:44



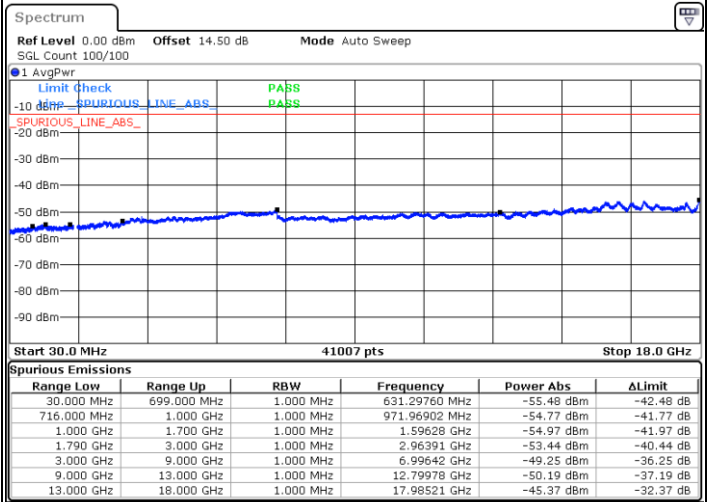
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



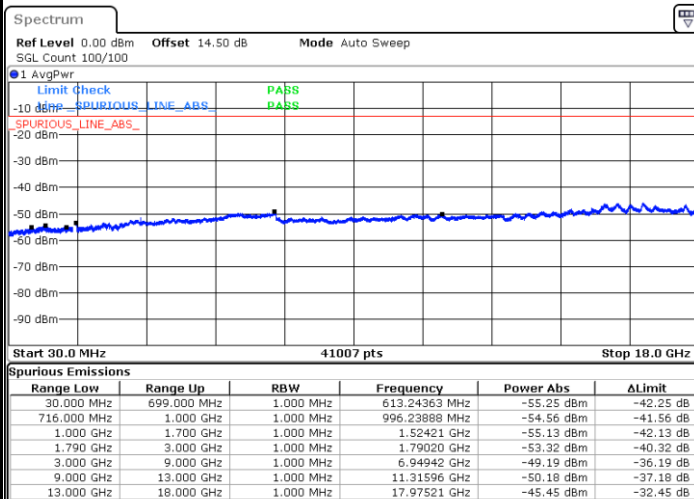
Date: 30.NOV.2020 23:55:51

Middle Channel / 64QAM



Date: 1.DEC.2020 00:19:28

Highest Channel / 64QAM

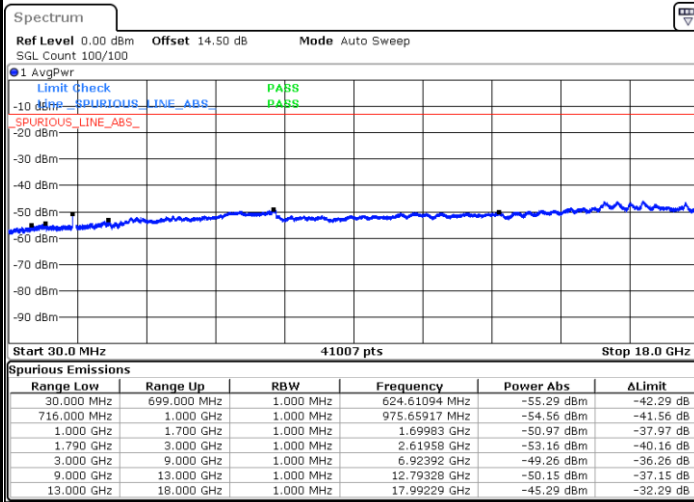


Date: 1.DEC.2020 00:49:31



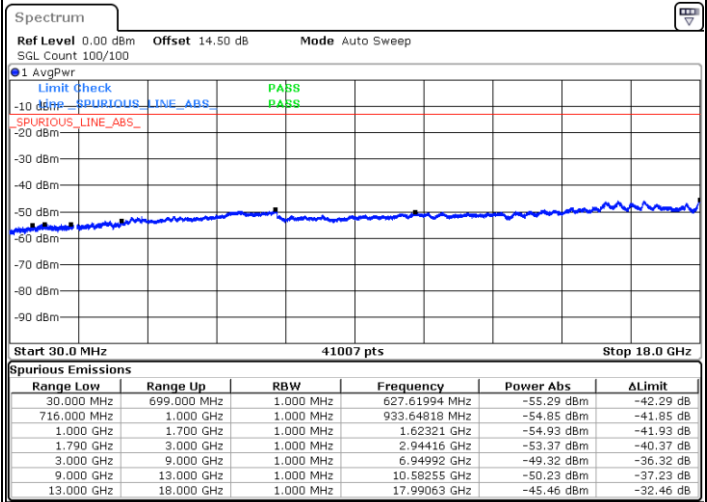
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



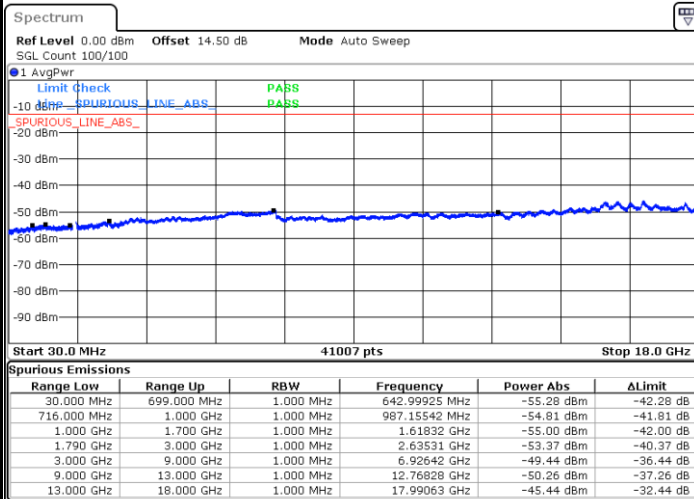
Date: 30.NOV.2020 22:15:10

Middle Channel / 64QAM



Date: 30.NOV.2020 22:23:24

Highest Channel / 64QAM

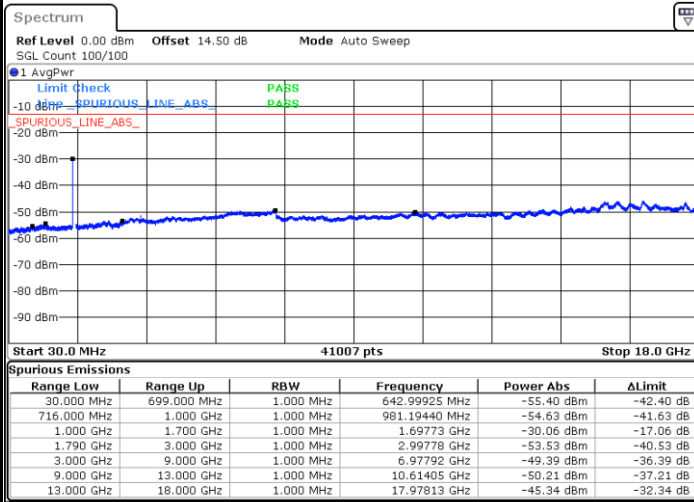


Date: 30.NOV.2020 22:38:59



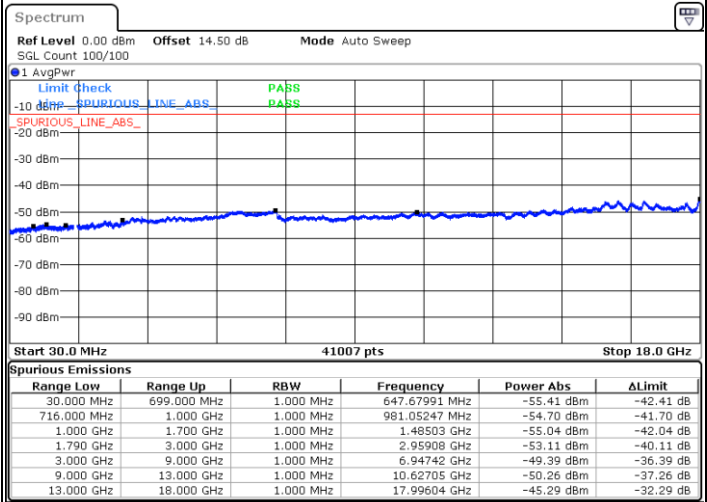
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



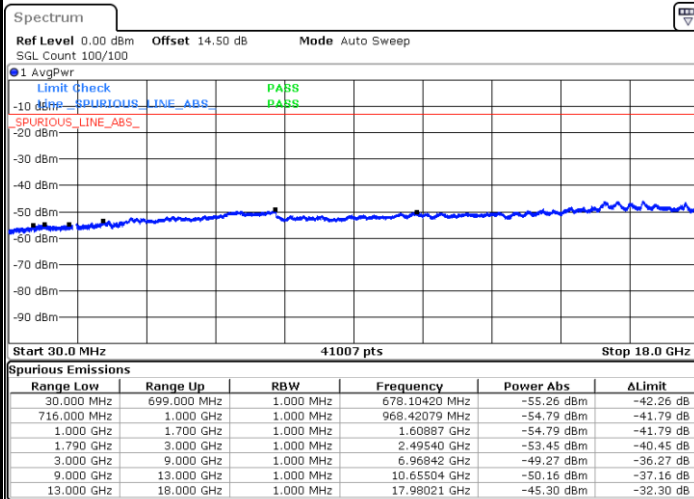
Date: 30.NOV.2020 21:35:33

Middle Channel / 64QAM



Date: 30.NOV.2020 21:47:04

Highest Channel / 64QAM

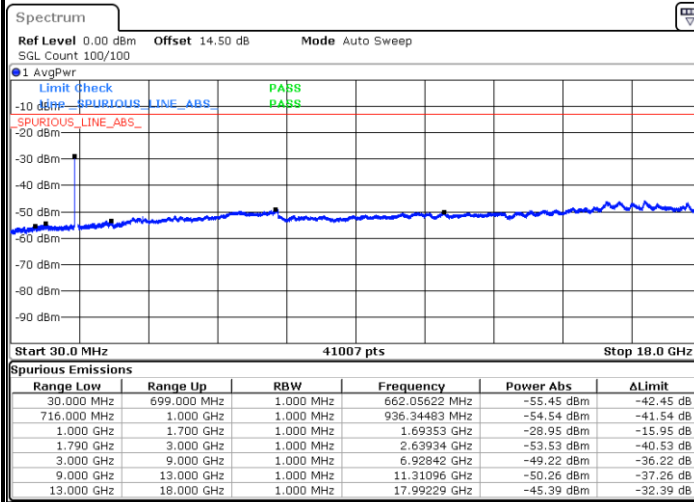


Date: 30.NOV.2020 22:03:29



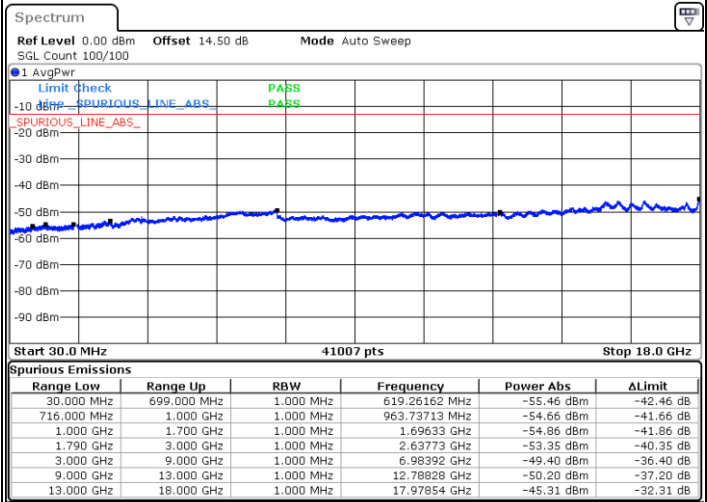
LTE Band 66 / 20MHz

Lowest Channel / 64QAM



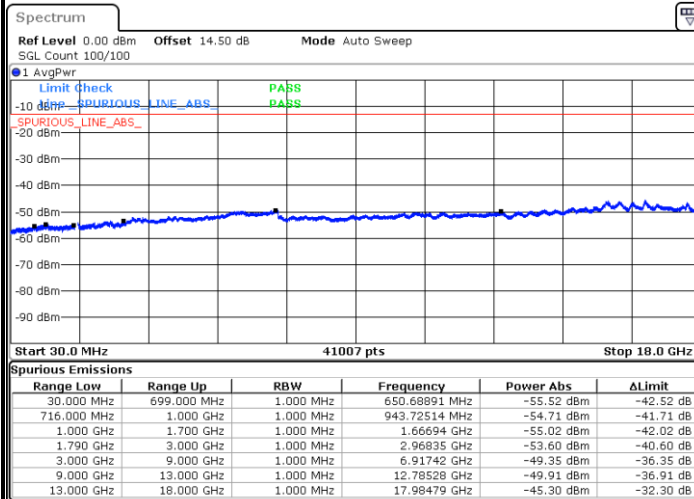
Date: 30.NOV.2020 20:31:42

Middle Channel / 64QAM



Date: 30.NOV.2020 21:13:21

Highest Channel / 64QAM



Date: 30.NOV.2020 21:24:54

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	0.0006	PASS
40	Normal Voltage	0.0103	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0085	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0092	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

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	-60.02	-13	-47.02	-69.12	-63.27	4.00	9.40	H
	2109	-54.04	-13	-41.04	-65.77	-57.61	4.88	10.60	H
	2812	-60.87	-13	-47.87	-75.07	-65.80	5.52	12.60	H
	1406	-59.33	-13	-46.33	-67.99	-62.58	4.00	9.40	V
	2109	-54.32	-13	-41.32	-66.00	-57.89	4.88	10.60	V
	2812	-60.65	-13	-47.65	-75.04	-65.58	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	-63.60	-42.15	-21.45	-73.35	-66.85	4.00	9.40	H
	2339.25	-60.95	-13	-47.95	-75.57	-64.52	4.88	10.60	H
	3119	-58.92	-13	-45.92	-76.04	-63.85	5.52	12.60	H
	1559.5	-63.60	-42.15	-21.45	-73.43	-66.85	4.00	9.40	V
	2339.25	-60.73	-13	-47.73	-75.35	-64.30	4.88	10.60	V
	3119	-58.82	-13	-45.82	-75.98	-63.75	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	-63.35	-42.15	-21.20	-73.10	-66.60	4.00	9.40	H
	2339.25	-60.98	-13	-47.98	-75.60	-64.55	4.88	10.60	H
	3119	-59.18	-13	-46.18	-76.30	-64.11	5.52	12.60	H
	1559.5	-63.56	-42.15	-21.41	-73.39	-66.81	4.00	9.40	V
	2339.25	-60.88	-13	-47.88	-75.50	-64.45	4.88	10.60	V
	3119	-59.06	-13	-46.06	-76.22	-63.99	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	-56.71	-13	-43.71	-79.05	-63.46	5.85	12.60	H
	5620.5	-56.48	-13	-43.48	-80.68	-62.28	7.3	13.10	H
	7494	-55.10	-13	-42.10	-81.50	-58.25	8.35	11.50	H
	3747	-53.90	-13	-40.90	-79.4	-60.65	5.85	12.60	V
	5620.5	-55.86	-13	-42.86	-80.56	-61.66	7.3	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	-65.26	-13	-52.26	-73.86	-68.49	3.98	9.36	H
	2489.25	-62.88	-13	-49.88	-75.62	-66.43	4.85	10.55	H
	3319	-62.68	-13	-49.68	-77.24	-67.61	5.50	12.58	H
	1659.5	-65.83	-13	-52.83	-74.03	-69.06	3.98	9.36	V
	2489.25	-62.61	-13	-49.61	-75.31	-66.16	4.85	10.55	V
	3319	-62.44	-13	-49.44	-76.78	-67.37	5.50	12.58	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	-56.46	-13	-43.46	-78.41	-63.31	5.65	12.50	H
	5208	-56.98	-13	-43.98	-81.20	-62.65	7.13	12.80	H
	6944	-55.66	-13	-42.66	-81.37	-59.06	8.40	11.80	H
	3472	-55.40	-13	-42.40	-77.15	-62.25	5.65	12.50	V
	5208	-56.07	-13	-43.07	-80.46	-61.74	7.13	12.80	V
	6944	-55.12	-13	-42.12	-81.56	-58.52	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	-63.07	-13	-50.07	-72.17	-66.32	4.00	9.40	H
	2109	-63.29	-13	-50.29	-75.02	-66.86	4.88	10.60	H
	2812	-60.89	-13	-47.89	-75.09	-65.82	5.52	12.60	H
	1406	-63.67	-13	-50.67	-72.33	-66.92	4.00	9.40	V
	2109	-63.47	-13	-50.47	-75.15	-67.04	4.88	10.60	V
	2812	-60.79	-13	-47.79	-75.18	-65.72	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	-63.70	-42.15	-21.55	-73.45	-66.95	4.00	9.40	H
	2339.25	-60.94	-13	-47.94	-75.56	-64.51	4.88	10.60	H
	3119	-59.10	-13	-46.10	-76.22	-64.03	5.52	12.60	H
	1559.5	-63.45	-42.15	-21.30	-73.28	-66.70	4.00	9.40	V
	2339.25	-60.99	-13	-47.99	-75.61	-64.56	4.88	10.60	V
	3119	-58.87	-13	-45.87	-76.03	-63.80	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	-63.84	-42.15	-21.69	-73.59	-67.09	4.00	9.40	H
	2339.25	-61.05	-13	-48.05	-75.67	-64.62	4.88	10.60	H
	3119	-59.15	-13	-46.15	-76.27	-64.08	5.52	12.60	H
	1559.5	-63.77	-42.15	-21.62	-73.60	-67.02	4.00	9.40	V
	2339.25	-60.91	-13	-47.91	-75.53	-64.48	4.88	10.60	V
	3119	-59.10	-13	-46.10	-76.26	-64.03	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	-56.31	-13	-43.31	-78.65	-63.06	5.85	12.60	H
	5620.5	-56.53	-13	-43.53	-80.73	-62.33	7.3	13.10	H
	7494	-55.20	-13	-42.20	-81.60	-58.35	8.35	11.50	H
	3747	-53.74	-13	-40.74	-79.24	-60.49	5.85	12.60	V
	5620.5	-56.14	-13	-43.14	-80.84	-61.94	7.3	13.10	V
	7494	-55.15	-13	-42.15	-81.54	-58.30	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	-65.08	-13	-52.08	-73.68	-68.31	3.98	9.36	H
	2489.25	-62.82	-13	-49.82	-75.56	-66.37	4.85	10.55	H
	3319	-62.63	-13	-49.63	-77.19	-67.56	5.50	12.58	H
	1659.5	-65.65	-13	-52.65	-73.85	-68.88	3.98	9.36	V
	2489.25	-63.02	-13	-50.02	-75.72	-66.57	4.85	10.55	V
	3319	-62.72	-13	-49.72	-77.06	-67.65	5.50	12.58	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	-55.31	-13	-42.31	-77.26	-62.16	5.65	12.50	H
	5208	-56.78	-13	-43.78	-81.00	-62.45	7.13	12.80	H
	6944	-55.58	-13	-42.58	-81.29	-58.98	8.40	11.80	H
	3472	-55.61	-13	-42.61	-77.36	-62.46	5.65	12.50	V
	5208	-56.62	-13	-43.62	-81.01	-62.29	7.13	12.80	V
	6944	-55.21	-13	-42.21	-81.65	-58.61	8.40	11.80	V

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