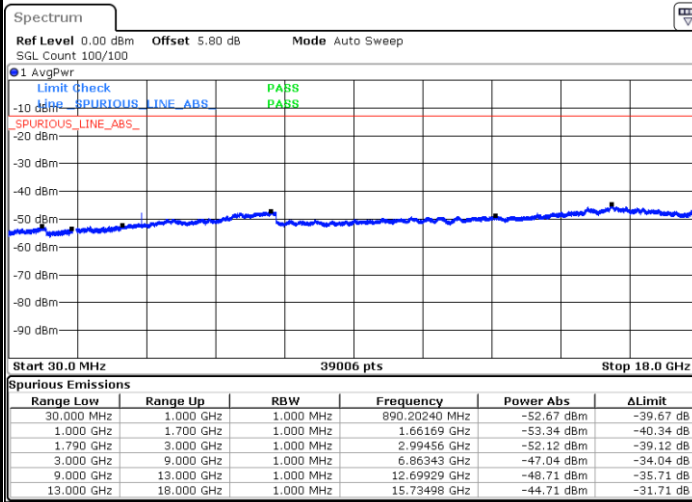




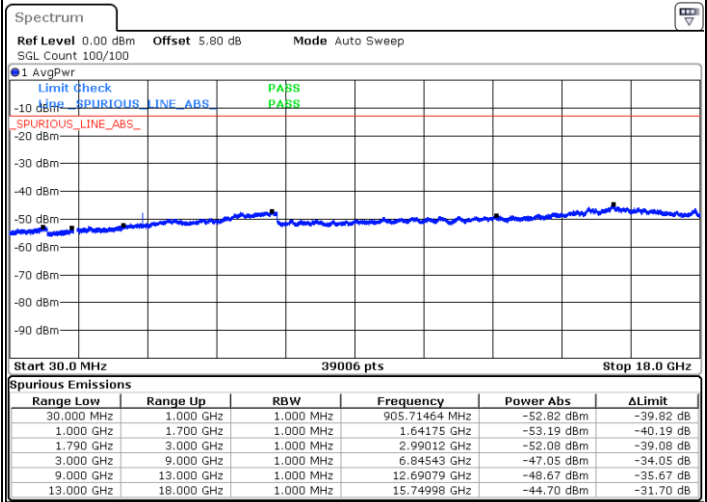
LTE Band 66 / 10MHz

Middle Channel / QPSK



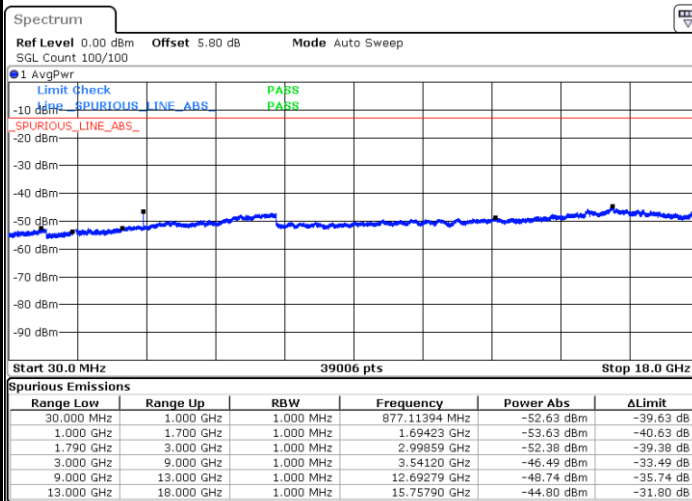
Date: 12 JUL 2019 03:45:25

Middle Channel / 16QAM



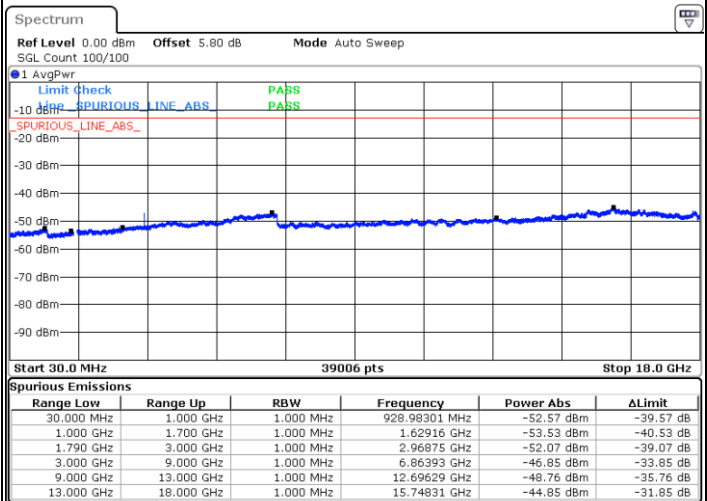
Date: 12 JUL 2019 03:46:57

Highest Channel / QPSK



Date: 12 JUL 2019 07:53:57

Highest Channel / 16QAM

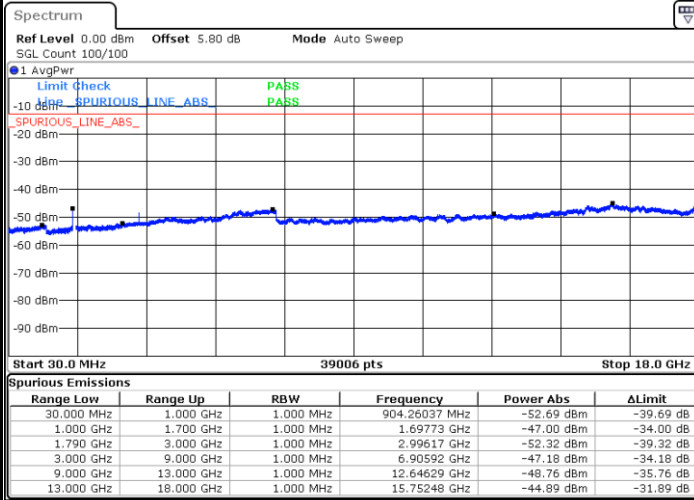


Date: 12 JUL 2019 07:54:35



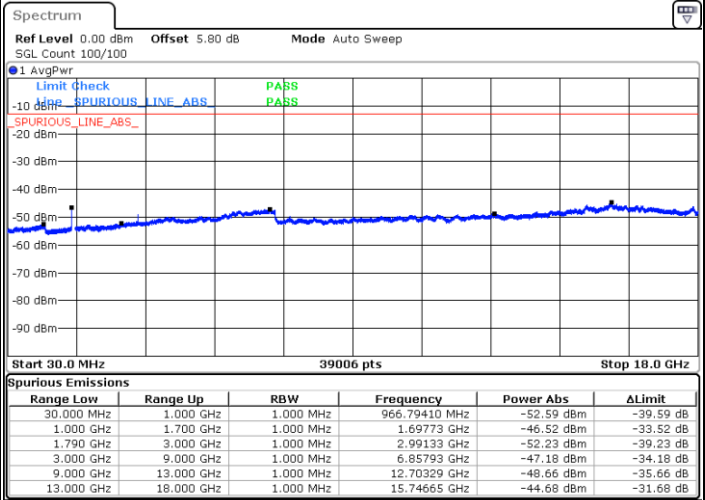
LTE Band 66 / 15MHz

Lowest Channel / QPSK



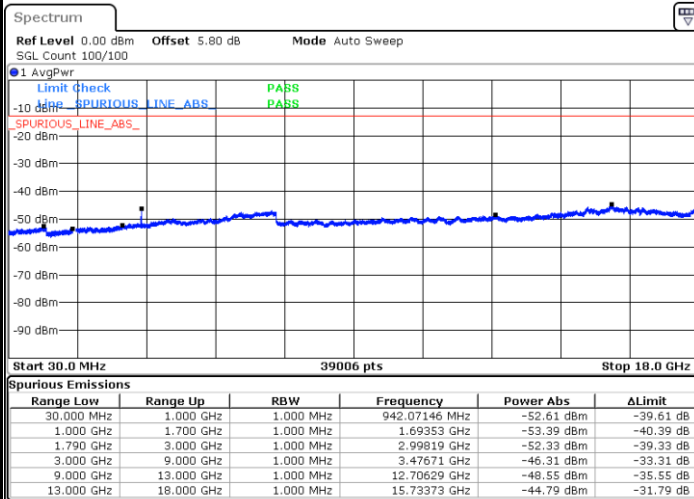
Date: 12 JUL 2019 03:59:25

Lowest Channel / 16QAM



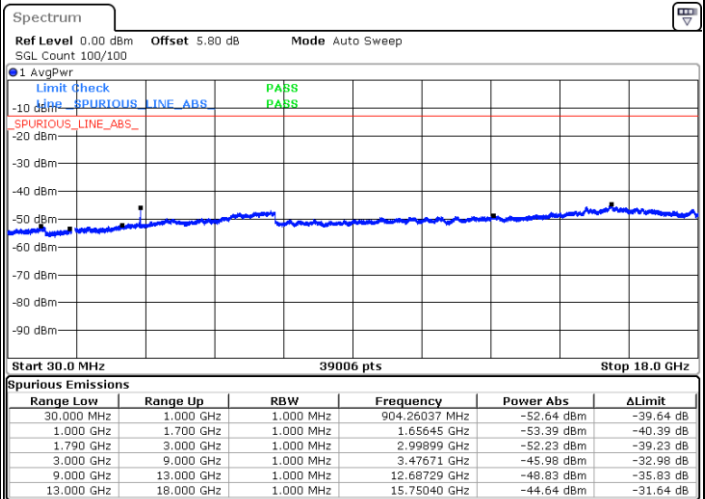
Date: 12 JUL 2019 03:58:29

Middle Channel / QPSK



Date: 12 JUL 2019 04:00:35

Middle Channel / 16QAM

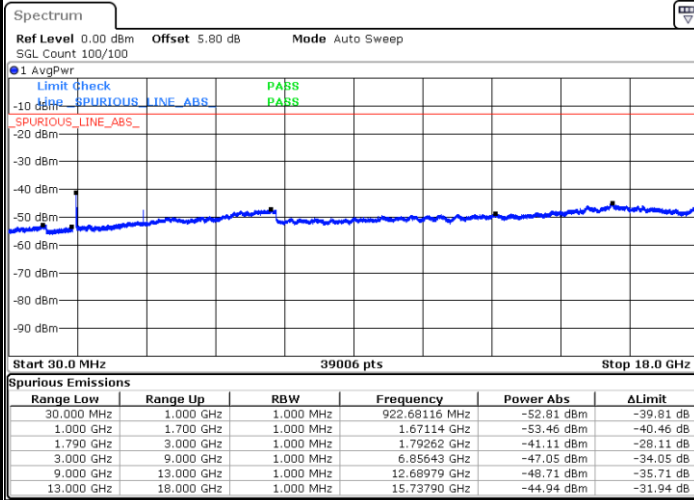


Date: 12 JUL 2019 04:01:12



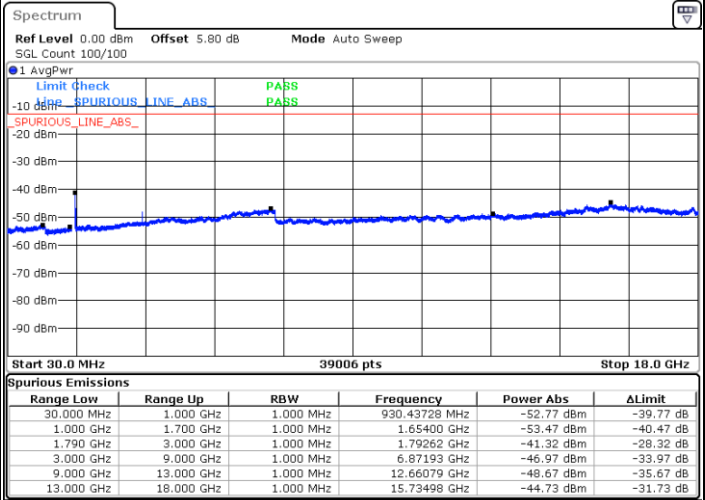
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 12 JUL 2019 04:06:21

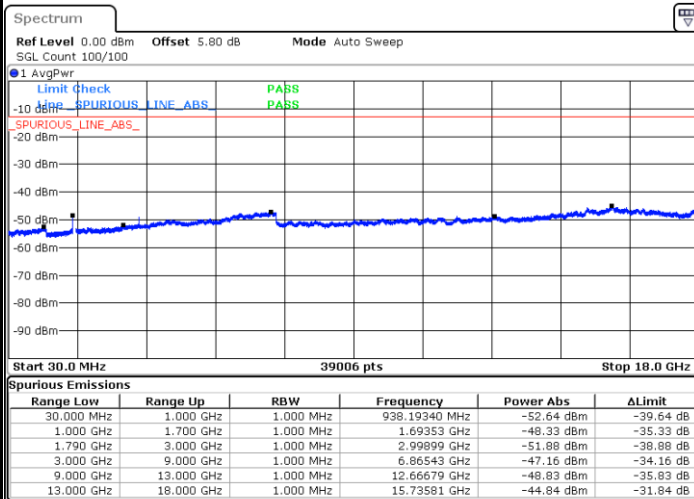
Highest Channel / 16QAM



Date: 12 JUL 2019 04:07:07

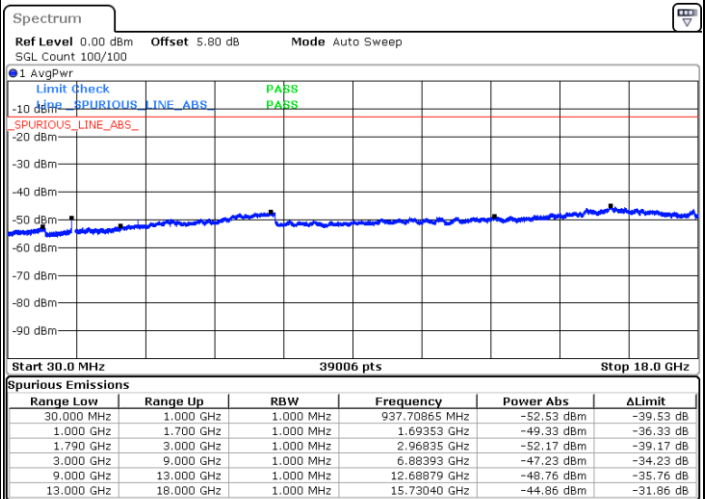
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 12 JUL 2019 04:29:07

Lowest Channel / 16QAM

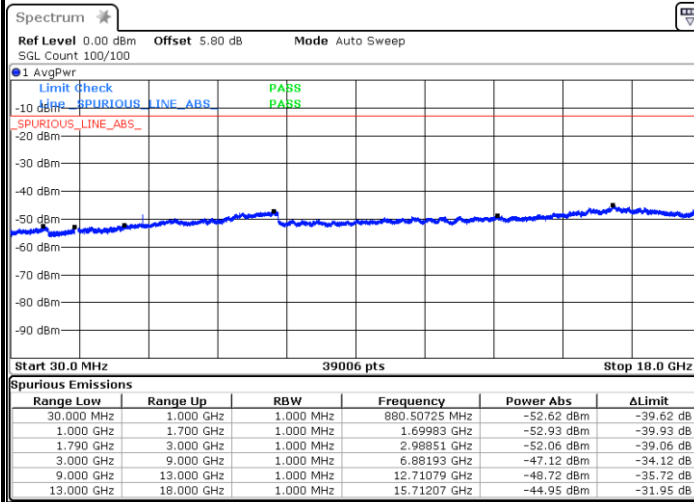


Date: 12 JUL 2019 04:30:10



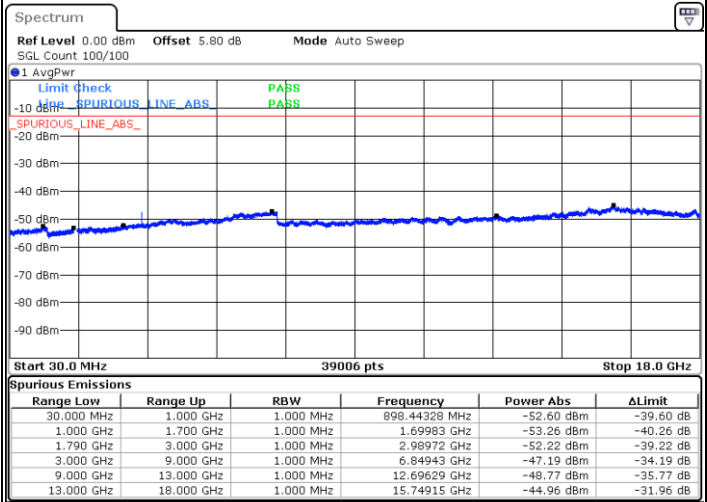
LTE Band 66 / 20MHz

Middle Channel / QPSK



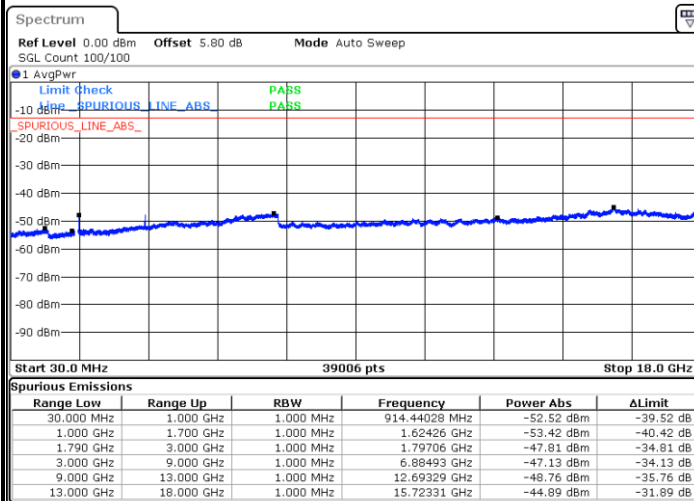
Date: 12 JUL 2019 04:27:07

Middle Channel / 16QAM



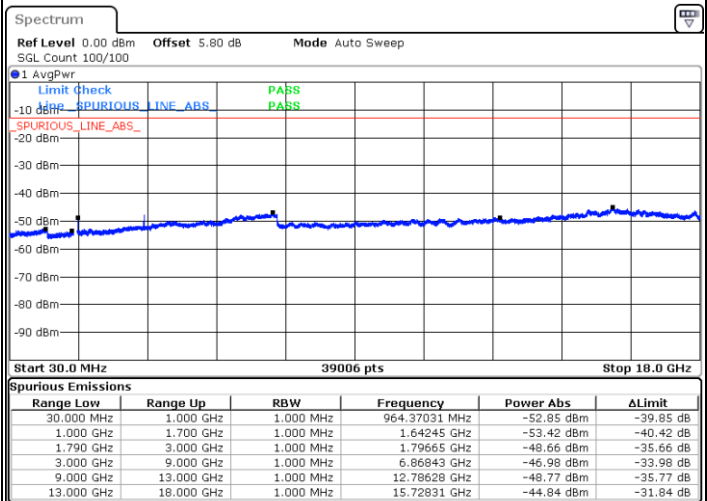
Date: 12 JUL 2019 04:27:47

Highest Channel / QPSK



Date: 12 JUL 2019 04:24:44

Highest Channel / 16QAM

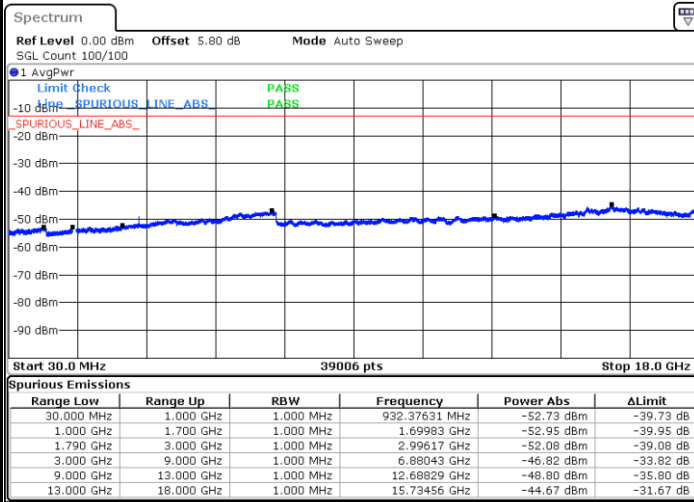


Date: 12 JUL 2019 04:23:58



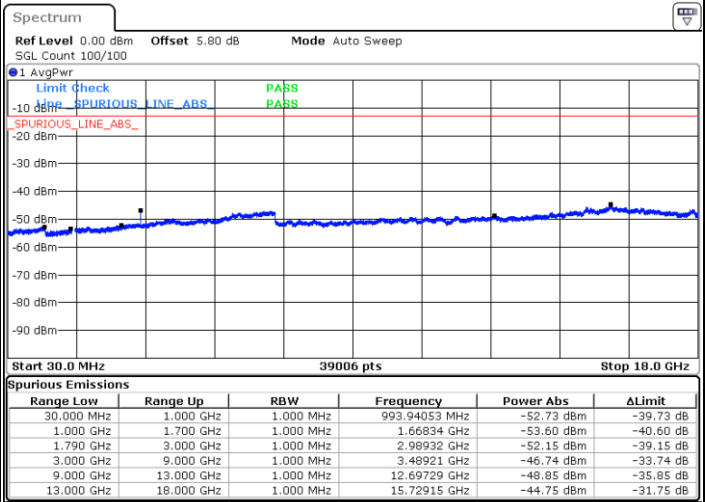
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM



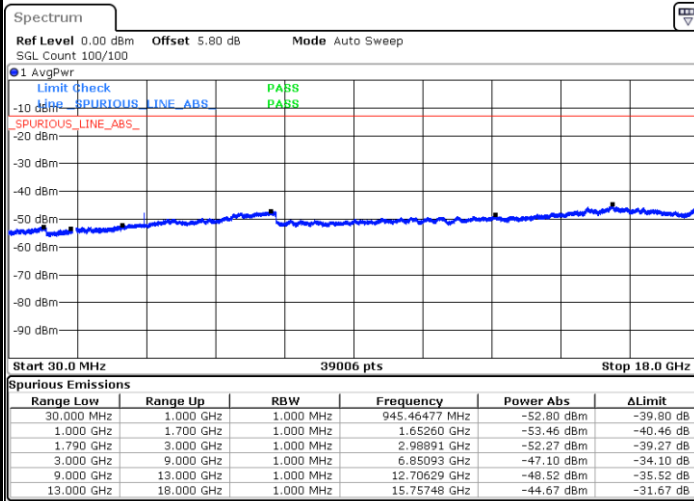
Date: 12 JUL 2019 02:29:56

Middle Channel / 64QAM



Date: 12 JUL 2019 02:45:35

Highest Channel / 64QAM

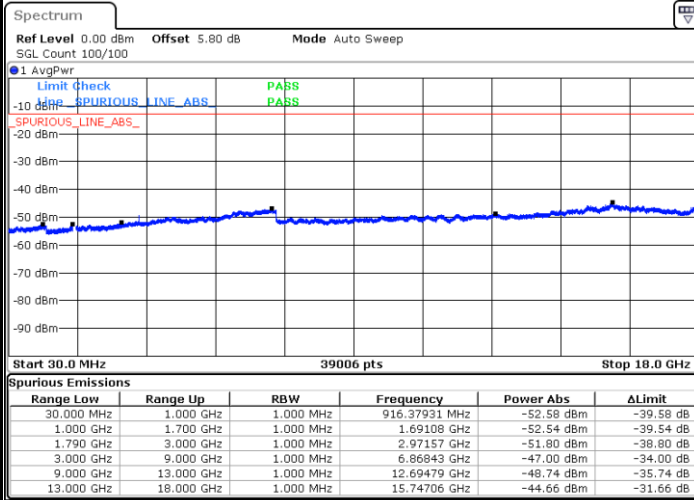


Date: 12 JUL 2019 02:57:30



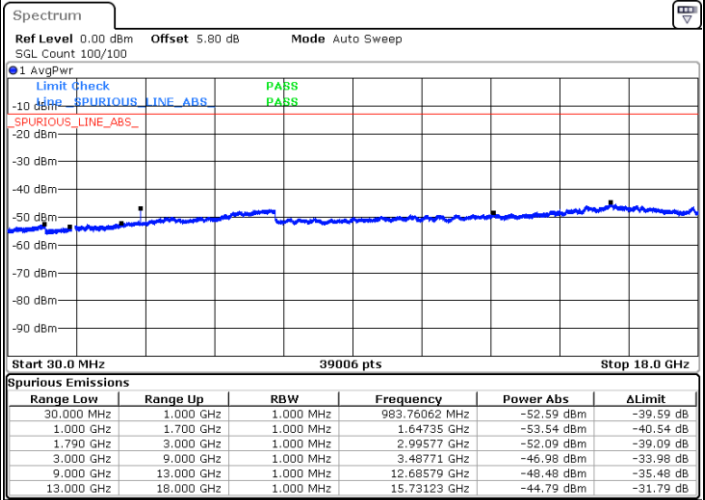
LTE Band 66 / 3MHz

Lowest Channel / 64QAM



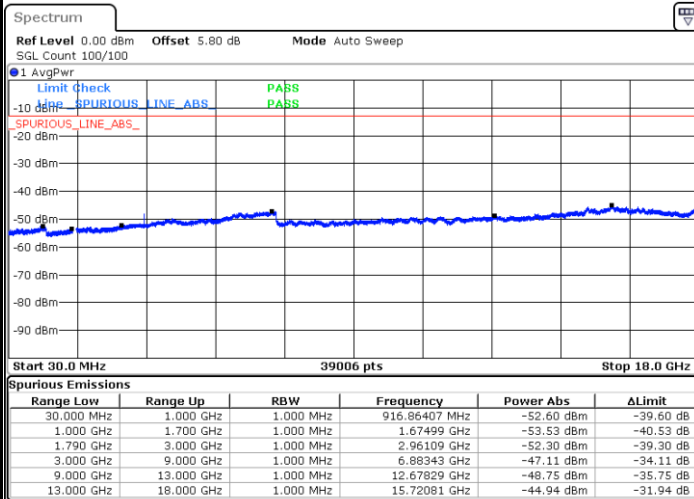
Date: 12 JUL 2019 03:03:33

Middle Channel / 64QAM



Date: 12 JUL 2019 03:08:56

Highest Channel / 64QAM

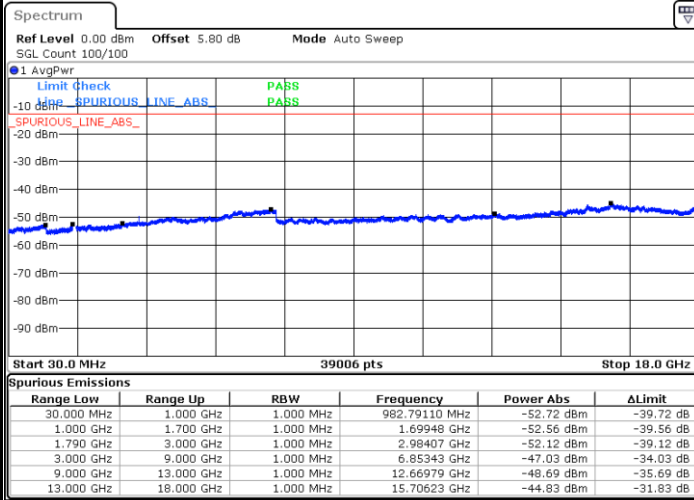


Date: 12 JUL 2019 03:21:21



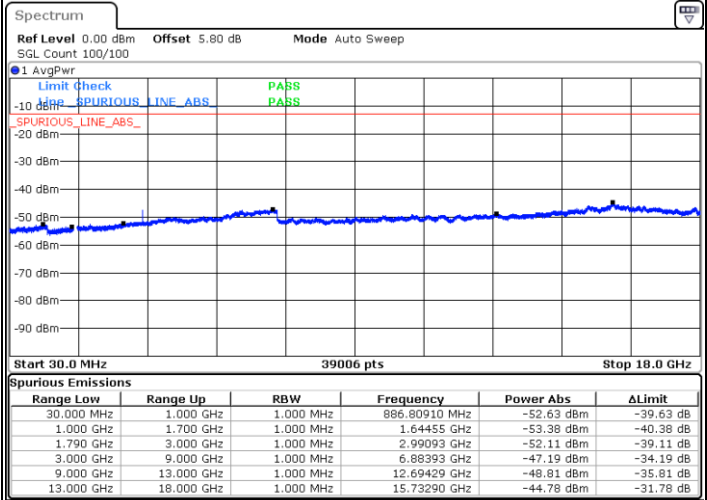
LTE Band 66 / 5MHz

Lowest Channel / 64QAM



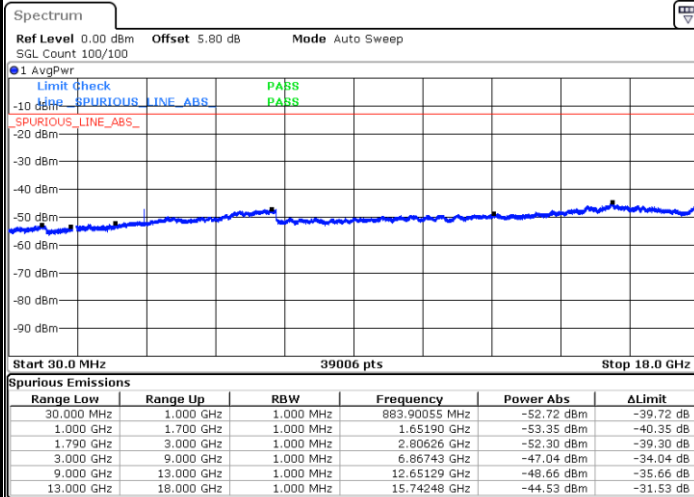
Date: 12 JUL 2019 03:25:29

Middle Channel / 64QAM



Date: 12 JUL 2019 03:29:07

Highest Channel / 64QAM

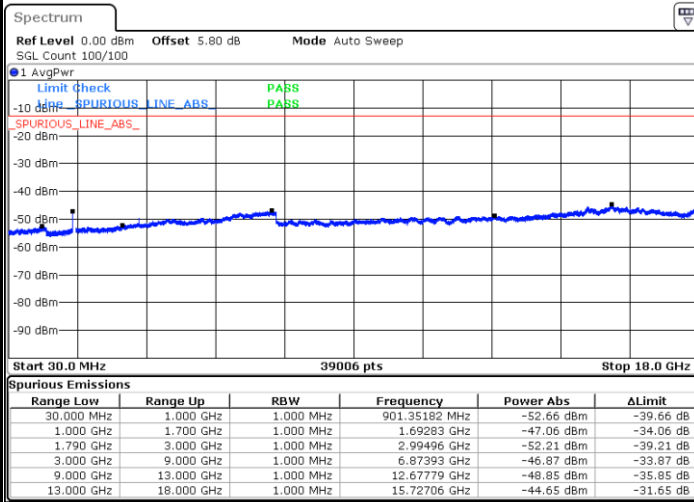


Date: 12 JUL 2019 03:33:12



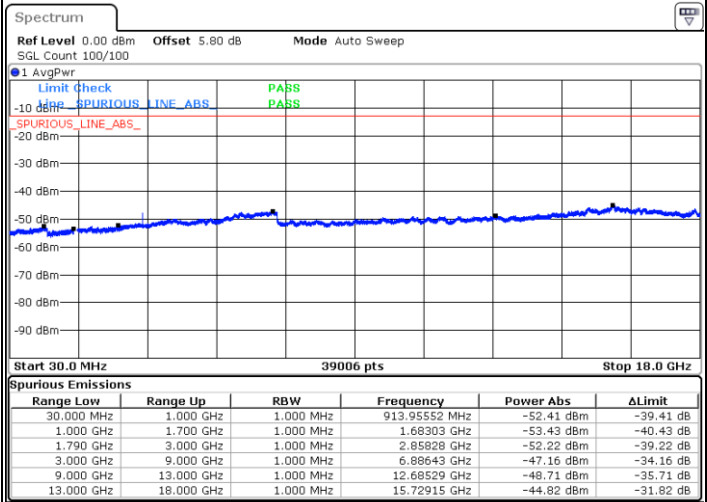
LTE Band 66 / 10MHz

Lowest Channel / 64QAM



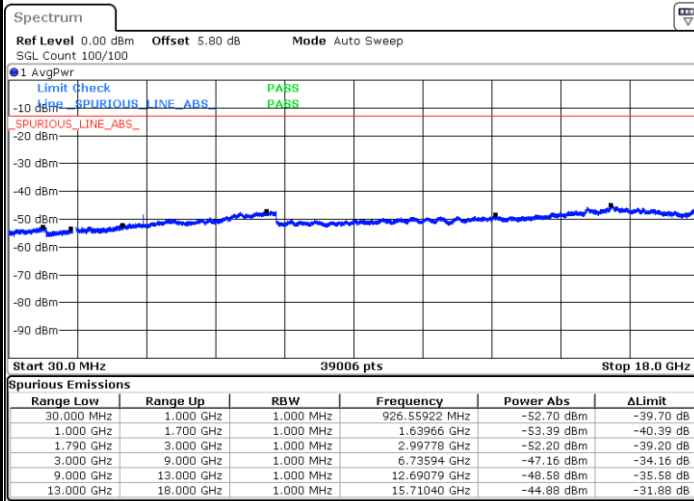
Date: 12 JUL 2019 03:41:22

Middle Channel / 64QAM



Date: 12 JUL 2019 03:48:04

Highest Channel / 64QAM

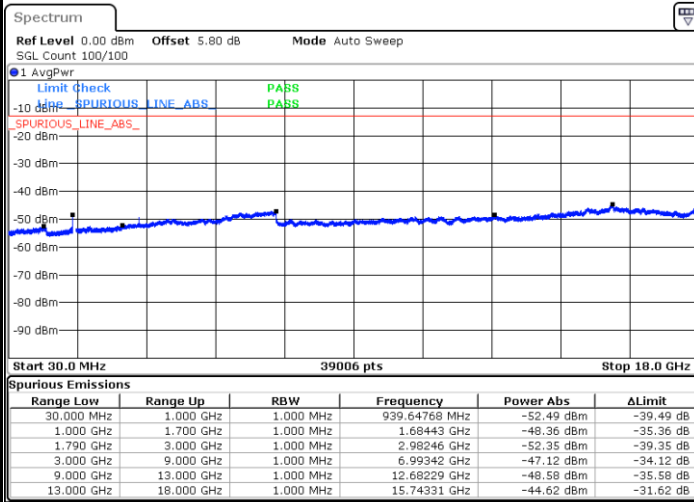


Date: 12 JUL 2019 07:55:17



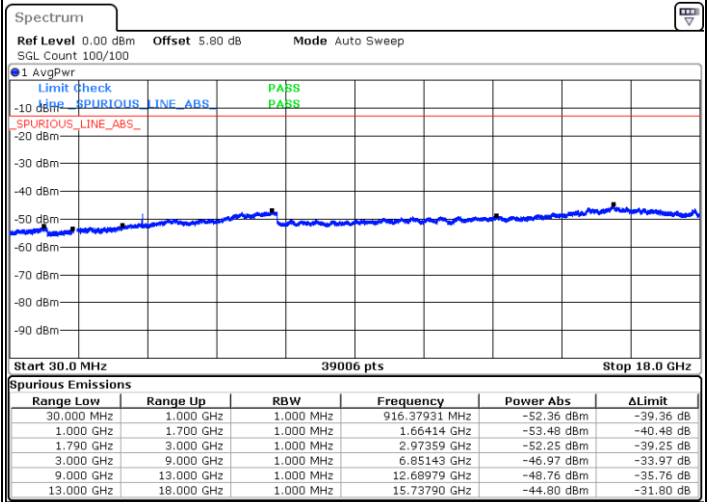
LTE Band 66 / 15MHz

Lowest Channel / 64QAM



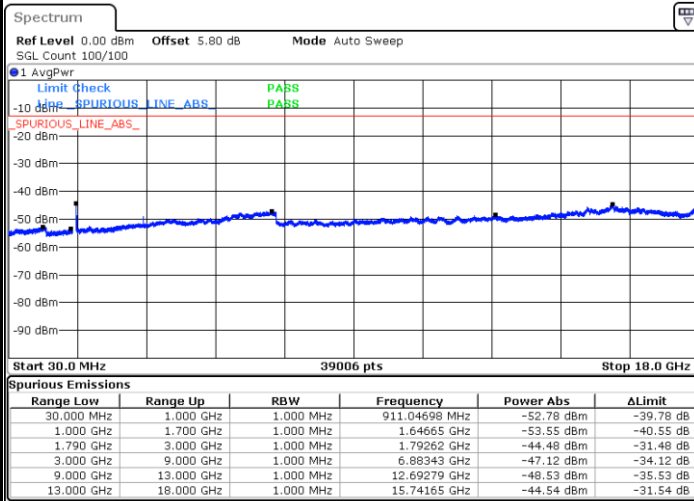
Date: 12 JUL 2019 03:57:45

Middle Channel / 64QAM



Date: 12 JUL 2019 04:01:50

Highest Channel / 64QAM

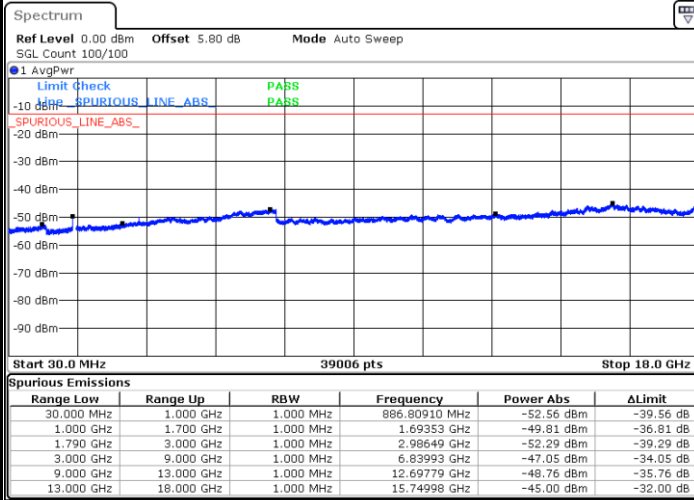


Date: 12 JUL 2019 04:07:42



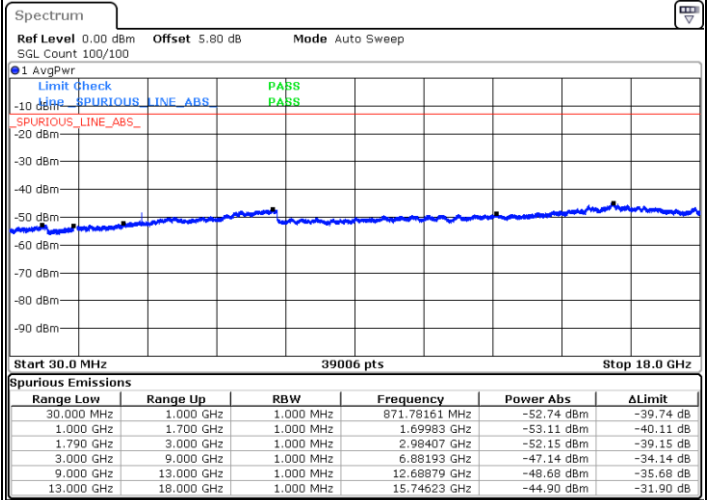
LTE Band 66 / 20MHz

Lowest Channel / 64QAM



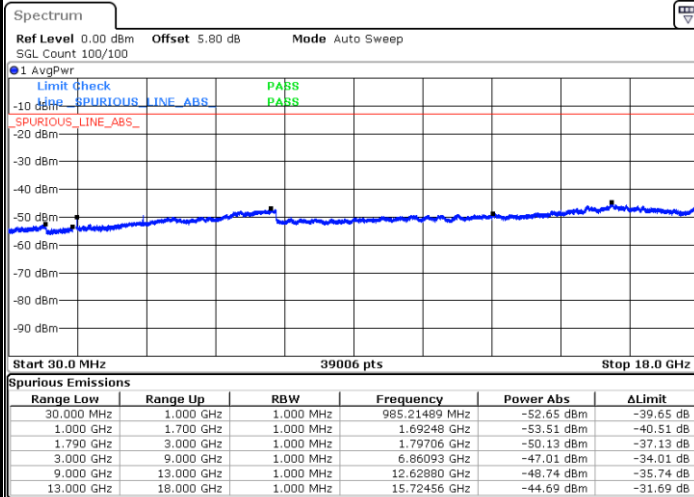
Date: 12 JUL 2019 04:32:51

Middle Channel / 64QAM



Date: 12 JUL 2019 04:19:06

Highest Channel / 64QAM



Date: 12 JUL 2019 04:22:51

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0012	

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.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0053	
20	Normal Voltage	0.0059	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0005	

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.

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0005	

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.

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0057	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0059	
20	Battery End Point	0.0012	

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	-56.84	-13	-43.84	-69.10	2.641	14.90	H
	5613	-54.48	-13	-41.48	-66.34	2.94	14.80	H
	7488	-52.01	-13	-39.01	-61.78	3.39	13.16	H
	3741	-58.82	-13	-45.82	-71.08	2.64	14.90	V
	5613	-56.32	-13	-43.32	-68.18	2.94	14.80	V
	7488	-51.90	-13	-38.90	-61.67	3.39	13.16	V

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

LTE Band 5 / 10MHz / 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	1664	-67.71	-13	-54.71	-74.68	1.58	10.70	H
	2496	-56.49	-13	-43.49	-64.74	2.102	12.50	H
	3330	-65.28	-13	-52.28	-74.17	2.856	13.90	H
	1664	-68.64	-13	-55.64	-75.61	1.58	10.70	V
	2496	-56.98	-13	-43.98	-65.23	2.10	12.50	V
	3330	-65.35	-13	-52.35	-74.24	2.86	13.90	V

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

LTE Band 7 / 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	5052	-65.16	-25	-40.16	-75.37	3.03	13.24	H
	7576	-60.28	-25	-35.28	-69.73	3.56	13.01	H
	10100	-53.45	-25	-28.45	-62.97	3.92	13.44	H
	5052	-63.48	-25	-38.48	-73.69	3.03	13.24	V
	7576	-58.78	-25	-33.78	-68.23	3.56	13.01	V
	10100	-56.87	-25	-31.87	-66.39	3.92	13.44	V

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



LTE Band 12 / 10MHz / 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	1406	-68.54	-13	-55.54	-75.51	1.58	10.70	H
	2110	-58.98	-13	-45.98	-67.23	2.102	12.50	H
	2812	-64.78	-13	-51.78	-73.67	2.856	13.90	H
	1406	-68.22	-13	-55.22	-75.19	1.58	10.70	V
	2110	-61.64	-13	-48.64	-69.89	2.10	12.50	V
	2812	-65.25	-13	-52.25	-74.14	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	-63.10	-13	-50.10	-73.84	2.604	13.34	H
	5208	-58.64	-13	-45.64	-69.15	3.011	13.52	H
	6948	-55.17	-13	-42.17	-65.37	3.271	13.47	H
	3471	-60.13	-13	-47.13	-70.87	2.604	13.34	V
	5208	-58.49	-13	-45.49	-69.00	3.011	13.52	V
	6948	-54.86	-13	-41.86	-65.06	3.271	13.47	V

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