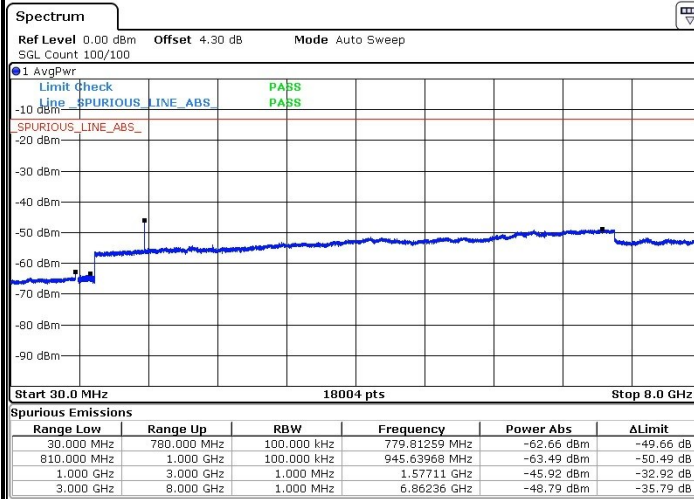




Conducted Spurious Emission

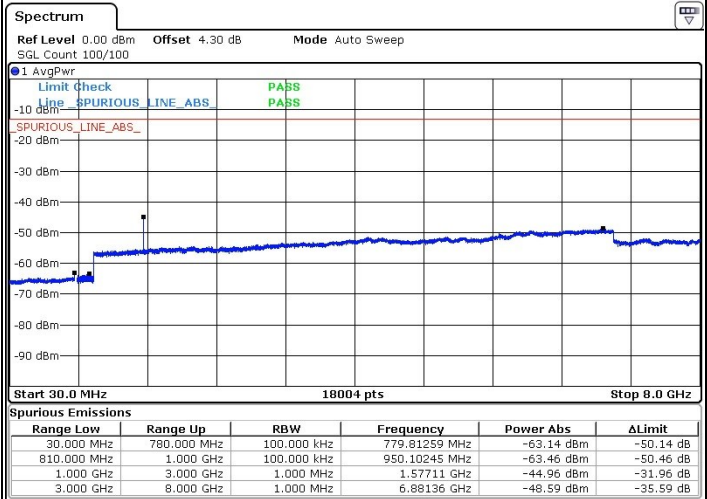
LTE Band 14 / 5MHz

Lowest Channel / QPSK



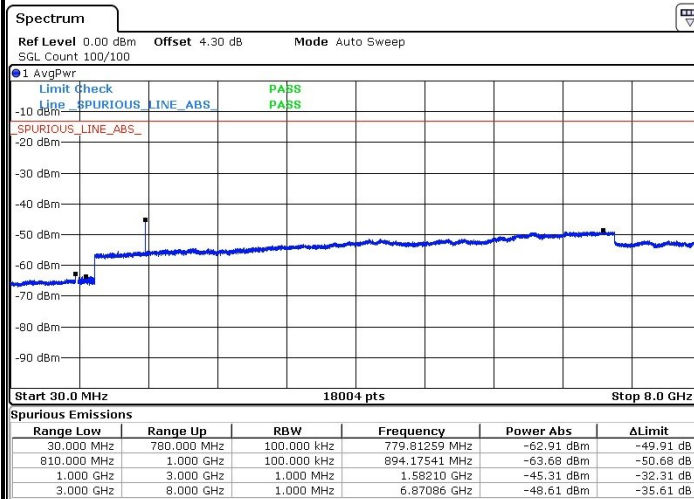
Date: 4 MAY 2019 15:59:52

Lowest Channel / 16QAM



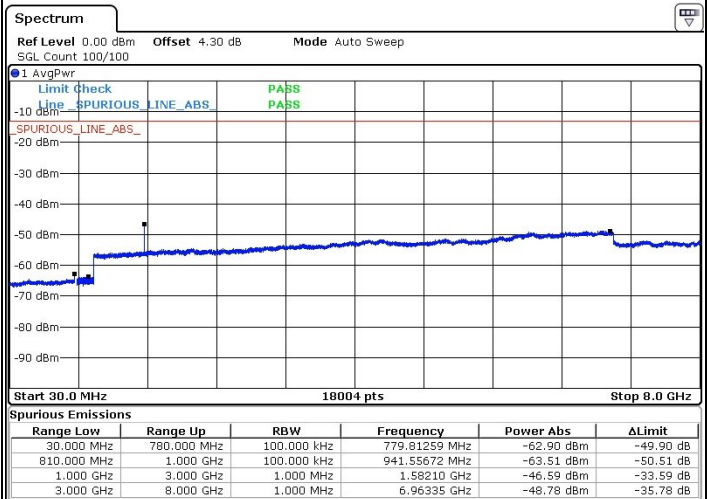
Date: 4 MAY 2019 16:00:39

Middle Channel / QPSK



Date: 4 MAY 2019 15:57:50

Middle Channel / 16QAM

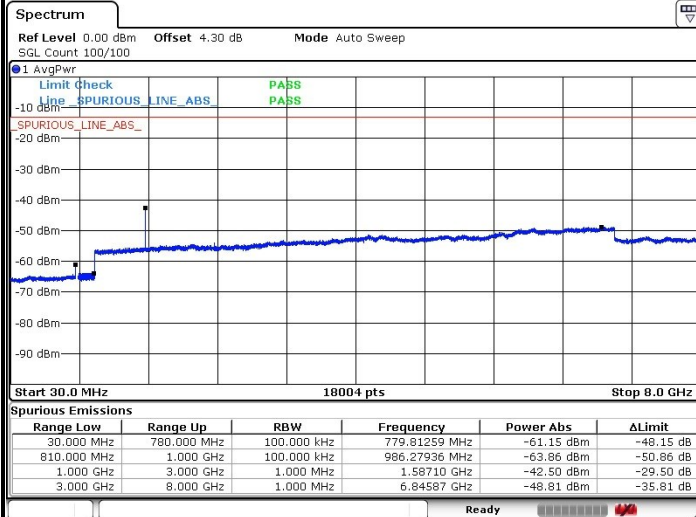


Date: 4 MAY 2019 15:58:20



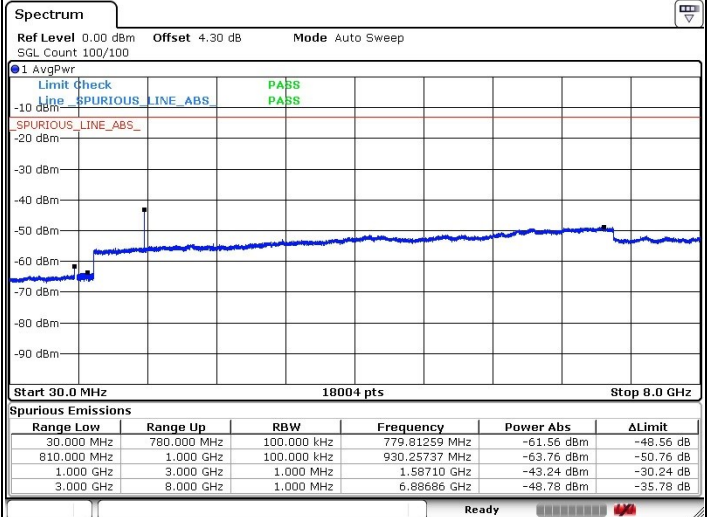
LTE Band 14 / 5MHz

Highest Channel / QPSK



Date: 4 MAY 2019 16:02:08

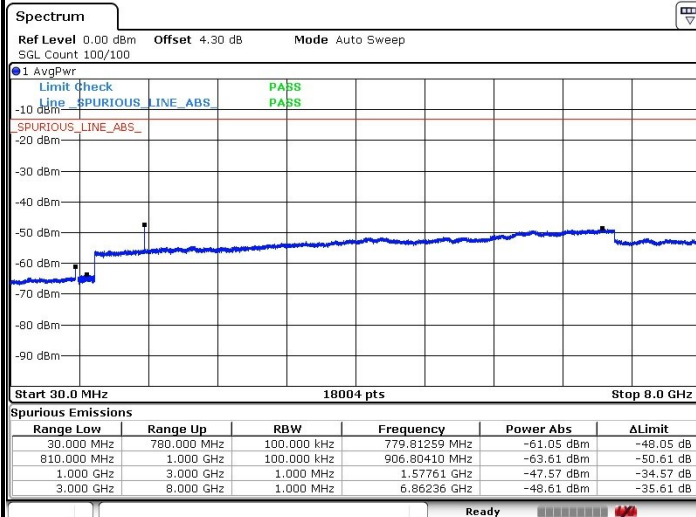
Highest Channel / 16QAM



Date: 4 MAY 2019 16:02:52

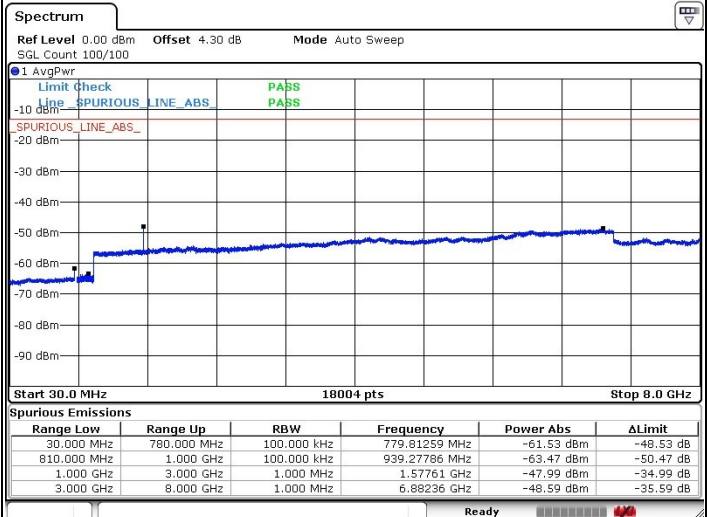
LTE Band 14 / 10MHz

Middle Channel / QPSK



Date: 4 MAY 2019 15:54:21

Middle Channel / 16QAM



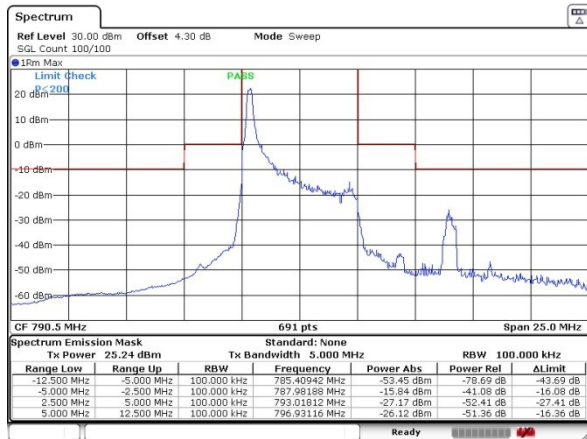
Date: 4 MAY 2019 15:55:40



Emission Mask

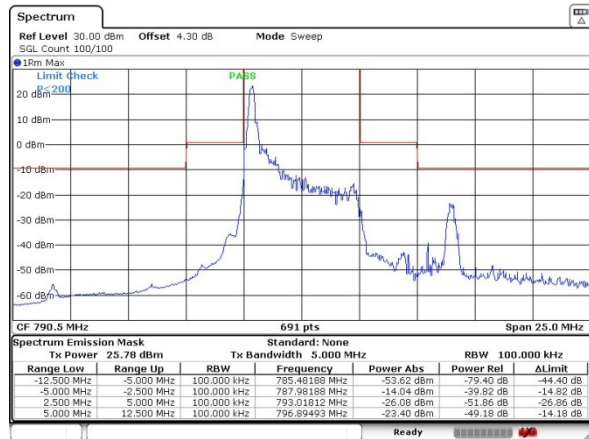
LTE Band 14/ 5M(1RB0)

Lowest Channel / 5MHz / QPSK



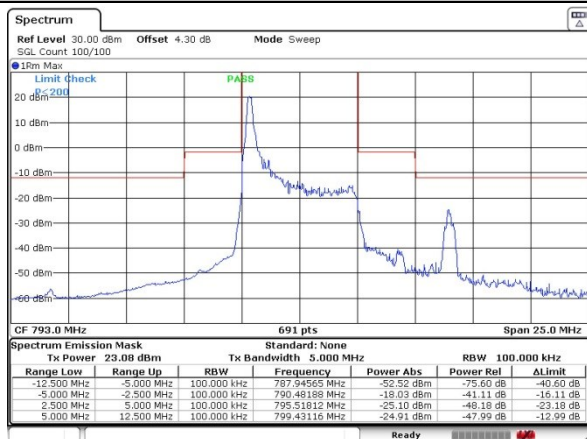
Date: 15 MAY 2019 22:25:42

Lowest Channel / 5MHz / 16QAM



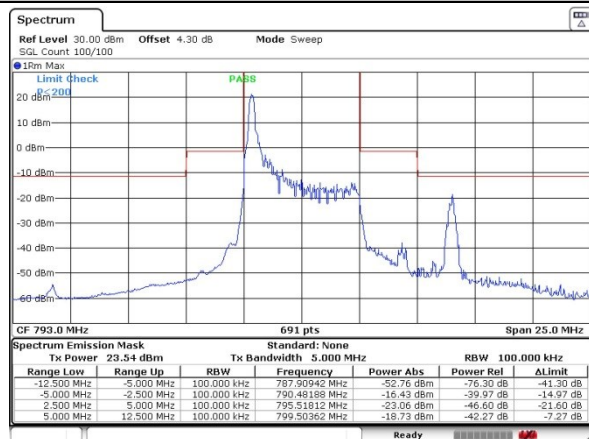
Date: 15 MAY 2019 22:28:41

Middle Channel / 5MHz / QPSK



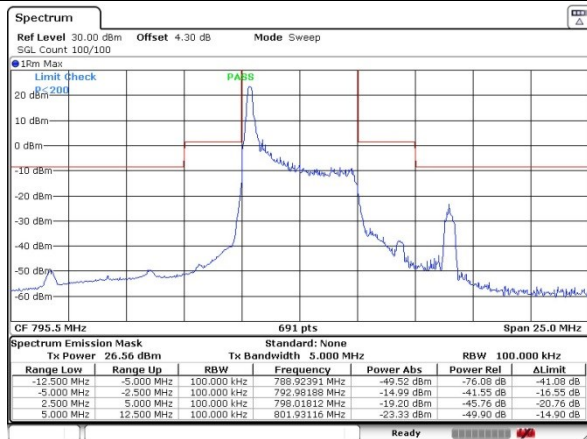
Date: 15 MAY 2019 22:28:58

Middle Channel / 5MHz / 16QAM



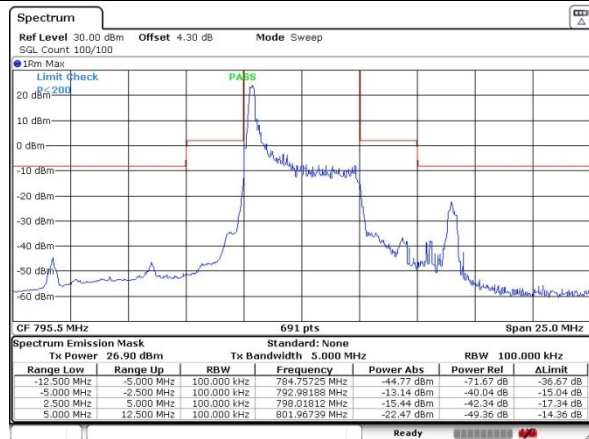
Date: 15 MAY 2019 22:28:44

Highest Channel / 5MHz / QPSK



Date: 15 MAY 2019 22:21:27

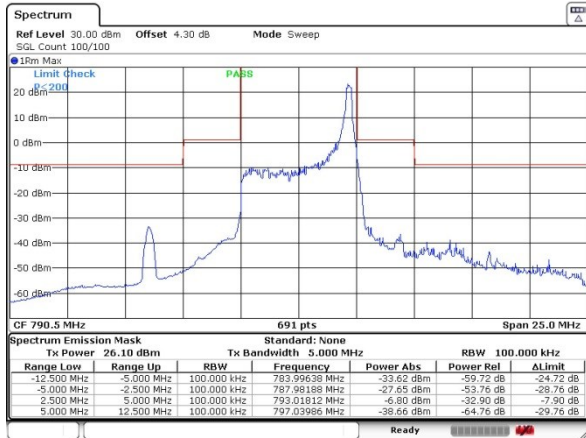
Highest Channel / 5MHz / 16QAM



Date: 15 MAY 2019 22:28:28

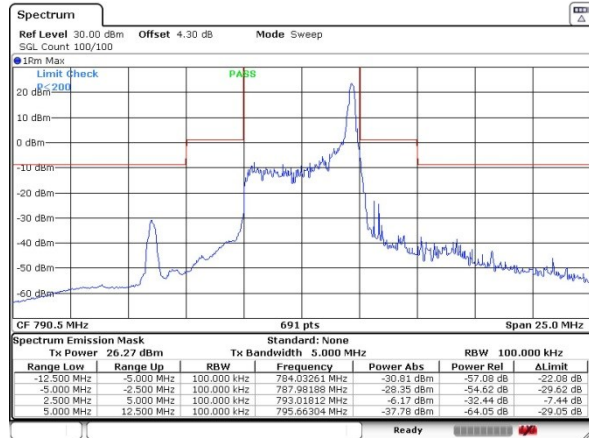
LTE Band 14/ 5M(1RBmax)

Lowest Channel / 5MHz / QPSK



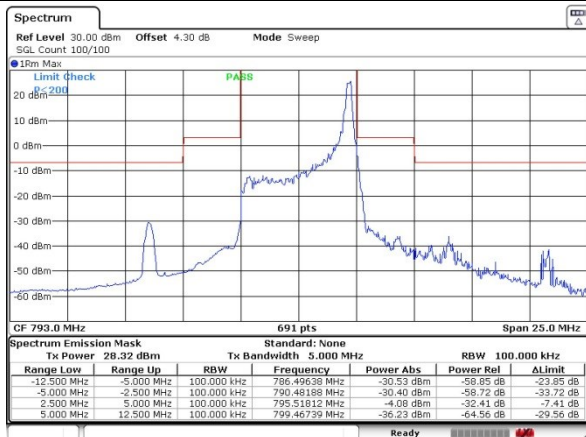
Date: 15 MAY 2019 22:36:34

Lowest Channel / 5MHz / 16QAM



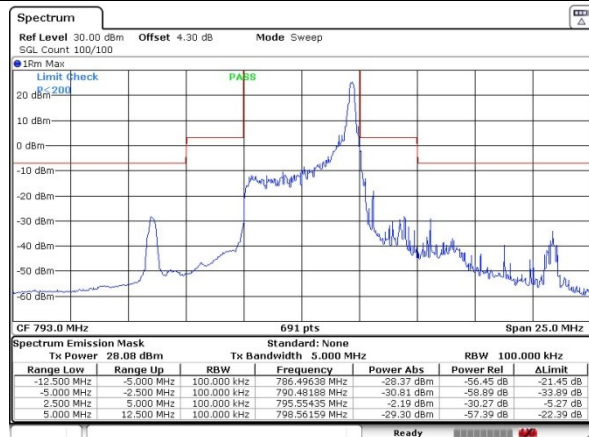
Date: 15 MAY 2019 22:37:33

Middle Channel / 5MHz / QPSK



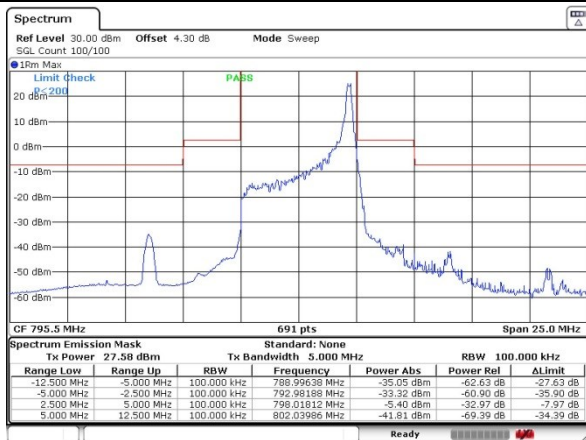
Date: 15 MAY 2019 22:32:28

Middle Channel / 5MHz / 16QAM



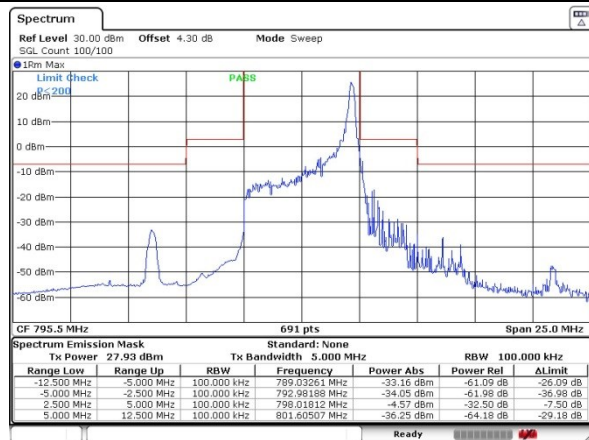
Date: 15 MAY 2019 22:31:19

Highest Channel / 5MHz / QPSK



Date: 15 MAY 2019 22:39:42

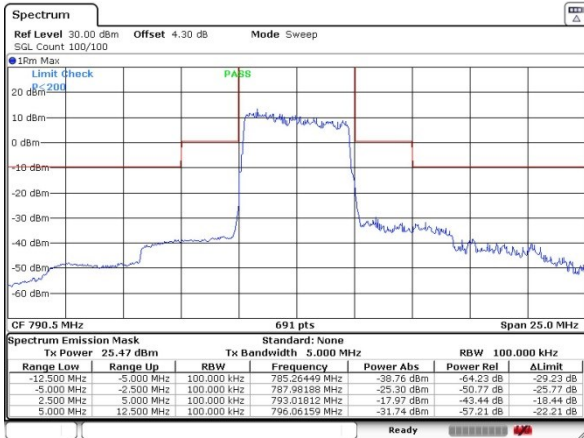
Highest Channel / 5MHz / 16QAM



Date: 15 MAY 2019 22:40:39

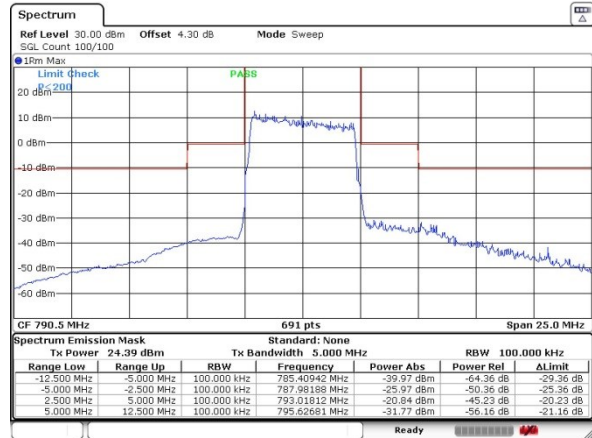
LTE Band 14/ 5M(fullIRB0)

Lowest Channel / 5MHz / QPSK



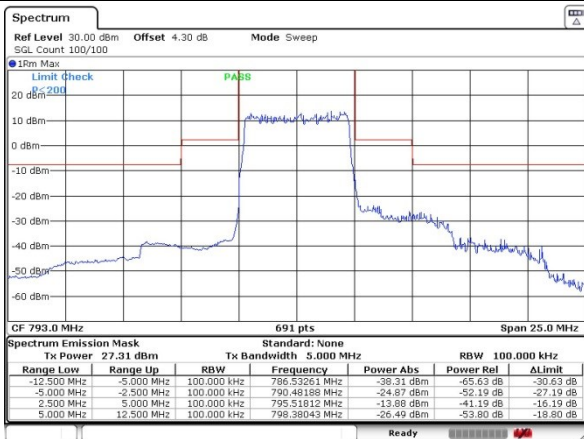
Date: 15 MAY 2019 22:56:36

Lowest Channel / 5MHz / 16QAM



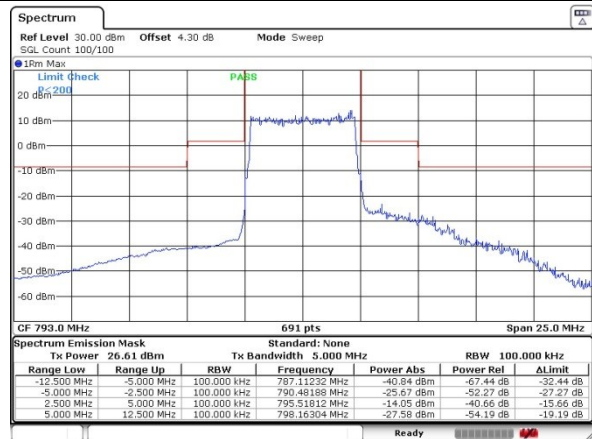
Date: 15 MAY 2019 22:57:35

Middle Channel / 5MHz / QPSK



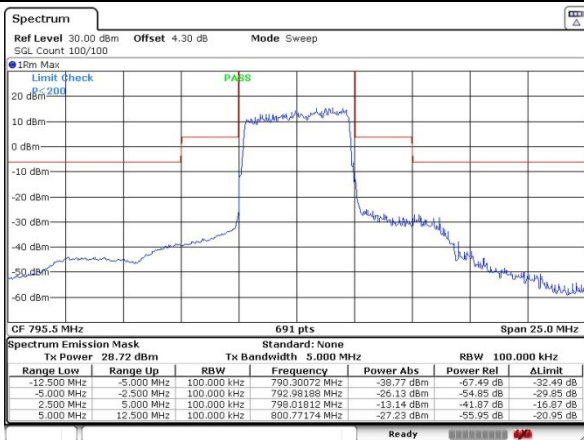
Date: 15 MAY 2019 22:49:16

Middle Channel / 5MHz / 16QAM



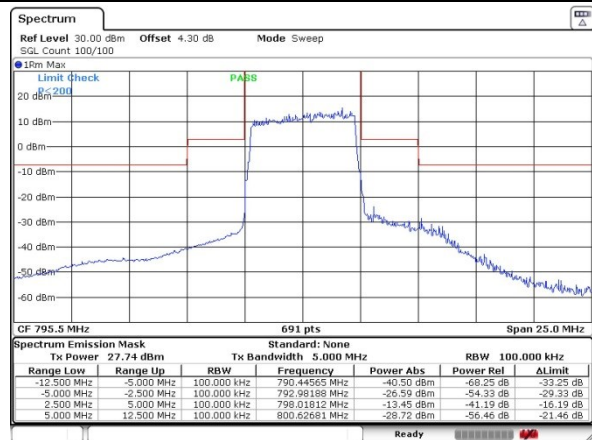
Date: 15 MAY 2019 22:50:10

Highest Channel / 5MHz / QPSK

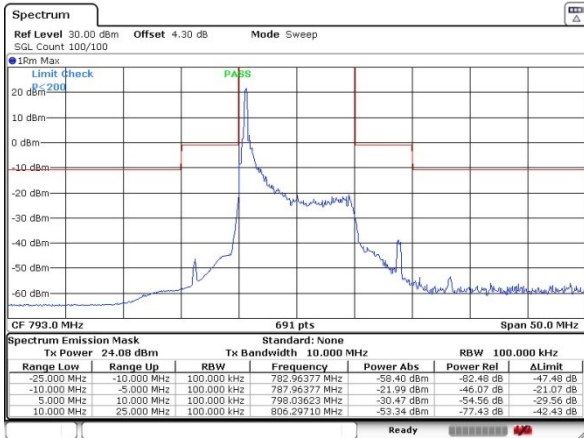


Date: 15 MAY 2019 22:44:21

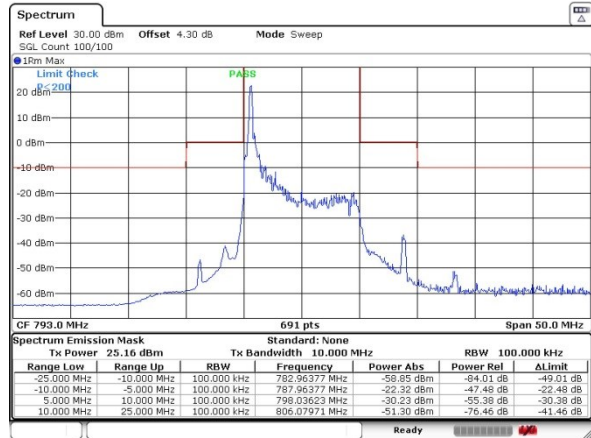
Highest Channel / 5MHz / 16QAM



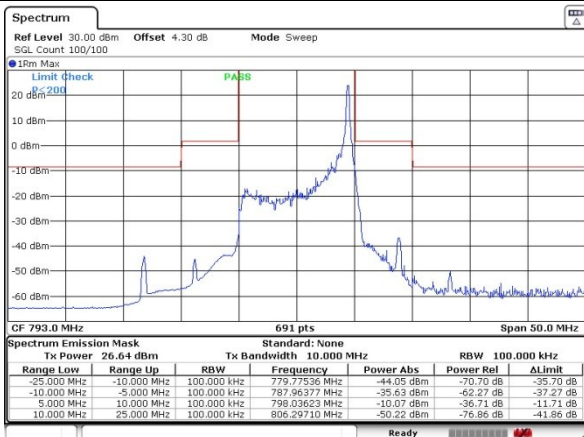
Date: 15 MAY 2019 22:46:32

LTE Band 14/ 10MHz
Middle Channel / 1RB0 / QPSK


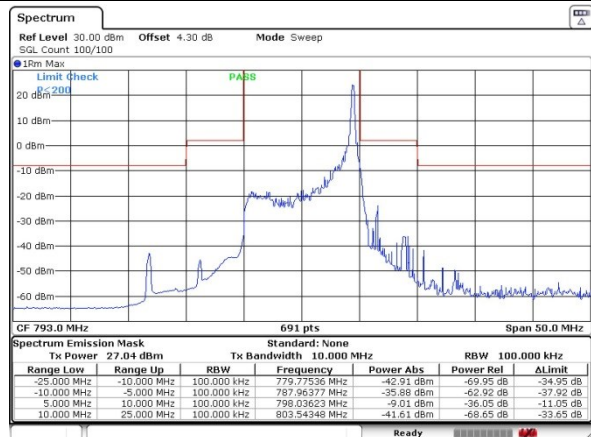
Date: 15 MAY 2019 23:11:07

Middle Channel / 1RB0 / 16QAM


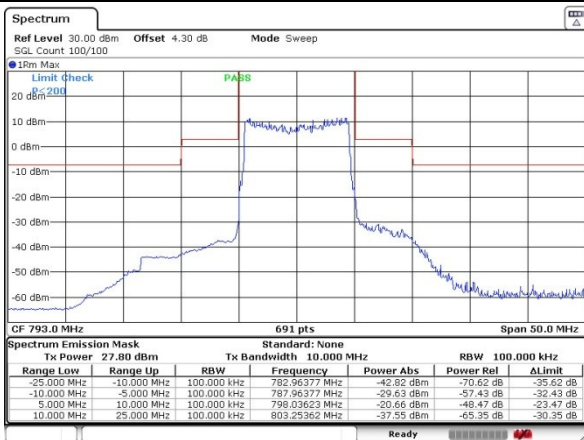
Date: 15 MAY 2019 23:12:23

Middle Channel / 1RBmax / QPSK


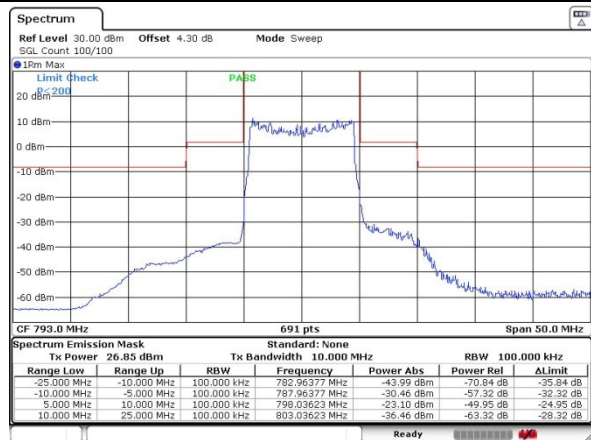
Date: 15 MAY 2019 23:14:54

Middle Channel / 1RBmax / 16QAM


Date: 15 MAY 2019 23:16:09

Middle Channel / fullRB0 / QPSK


Date: 15 MAY 2019 23:18:44

Middle Channel / fullRB0 / 16QAM


Date: 15 MAY 2019 23:20:11

Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0040	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.3V. ; Battery End Point (BEP) =3V. ; Maximum Voltage =3.6V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Field Strength of Spurious Radiated

LTE Band 14 / 5MHz / QPSK / RB Size 1 Offset 0								
Bandwidth	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1576	-53.30	-40	-13.30	-55.01	2.23	6.09	H
	2365.02	-67.80	-13	-54.80	-68.33	2.83	5.51	H
	3153	-57.89	-13	-44.89	-59.83	3.21	7.30	H
	1576	-60.85	-40	-20.85	-62.56	2.23	6.09	V
	2365.02	-67.25	-13	-54.25	-67.78	2.83	5.51	V
	3153	-61.83	-13	-48.83	-63.77	3.21	7.30	V
Middle	1582	-59.09	-40	-19.09	-60.80	2.23	6.09	H
	2372.52	-66.47	-13	-53.47	-67.00	2.83	5.51	H
	3162	-63.36	-13	-50.36	-65.30	3.21	7.30	H
	1582	-55.64	-40	-15.64	-57.35	2.23	6.09	V
	2372	-66.16	-13	-53.16	-66.69	2.83	5.51	V
	3162	-60.31	-13	-47.31	-62.25	3.21	7.30	V
Highest	1586	-53.00	-40	-13.00	-54.71	2.23	6.09	H
	2380	-64.75	-13	-51.75	-65.28	2.83	5.51	H
	3174	-58.23	-13	-45.23	-60.17	3.21	7.30	H
	1586	-60.25	-40	-20.25	-61.96	2.23	6.09	V
	2484	-65.51	-13	-52.51	-66.04	2.83	5.51	V
	3174	-61.22	-13	-48.22	-63.16	3.21	7.30	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Test Result					PASS			

LTE Band 14 / 10MHz / QPSK / RB Size 1 Offset 0								
Bandwidth	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1578	-53.78	-40	-13.78	-55.49	2.23	6.09	H
	2365.77	-67.79	-13	-54.79	-68.32	2.83	5.51	H
	3153	-58.67	-13	-45.67	-60.61	3.21	7.30	H
	1578	-61.56	-40	-21.56	-63.27	2.23	6.09	V
	2366	-67.73	-13	-54.73	-68.26	2.83	5.51	V
	3153	-61.52	-13	-48.52	-63.46	3.21	7.30	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Test Result					PASS			