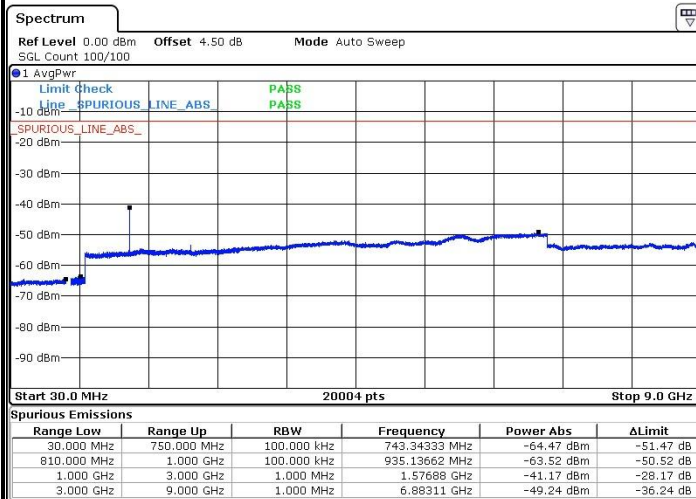




Conducted Spurious Emission

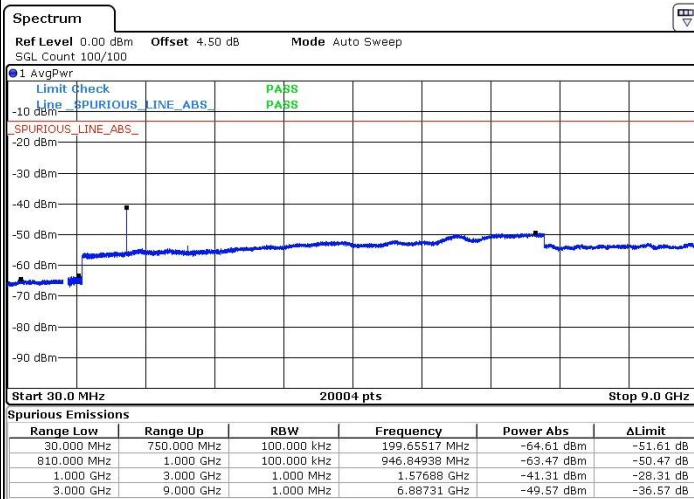
LTE Band 14 / 5MHz

Lowest Channel / QPSK



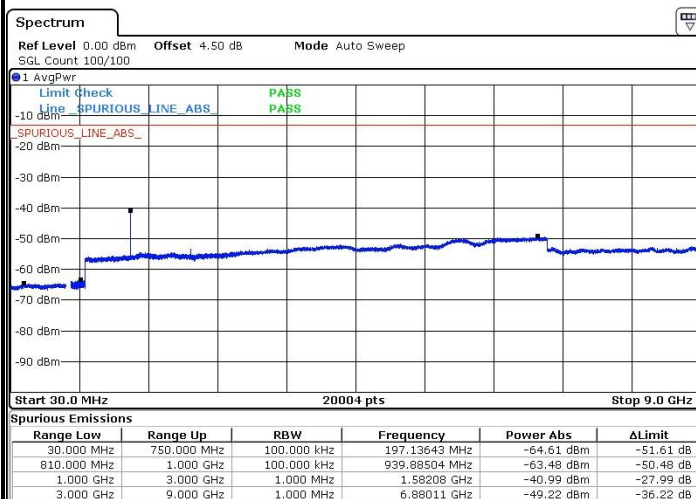
Date: 7.OCT.2018 01:30:55

Lowest Channel / 16QAM



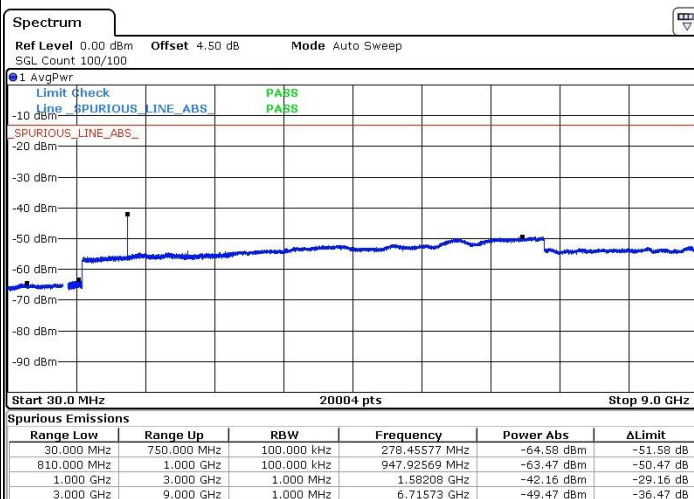
Date: 7.OCT.2018 01:31:29

Middle Channel / QPSK



Date: 7.OCT.2018 01:33:20

Middle Channel / 16QAM

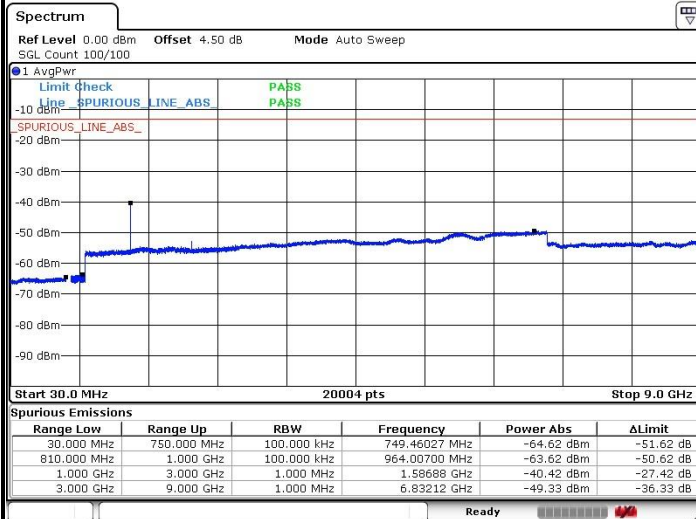


Date: 7.OCT.2018 01:32:54



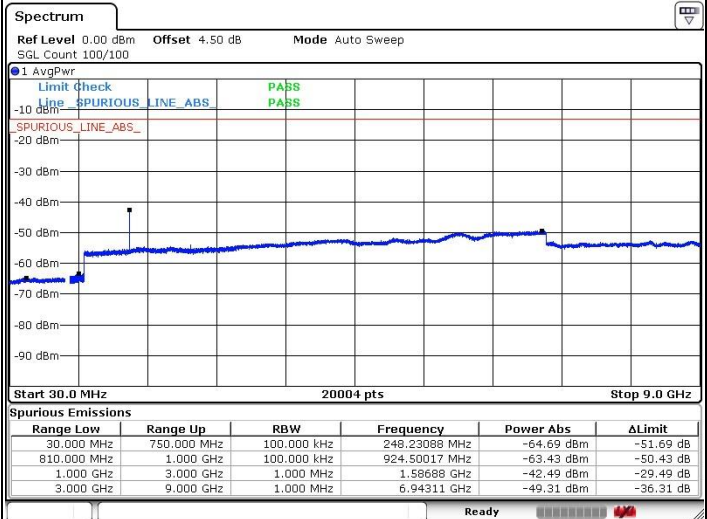
LTE Band 14 / 5MHz

Highest Channel / QPSK



Date: 7.OCT.2018 01:33:57

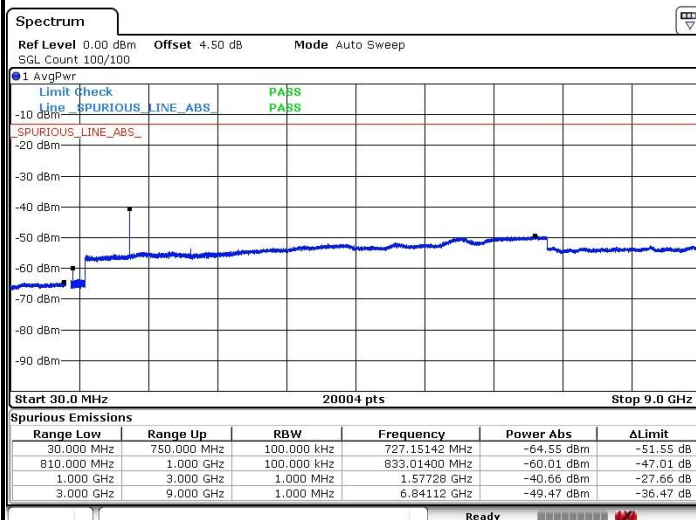
Highest Channel / 16QAM



Date: 7.OCT.2018 01:34:30

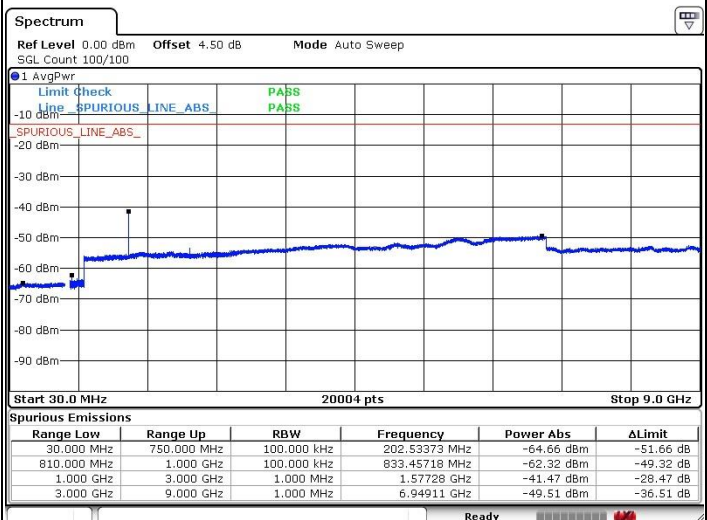
LTE Band 14 / 10MHz

Middle Channel / QPSK



Date: 7.OCT.2018 01:36:39

Middle Channel / 16QAM

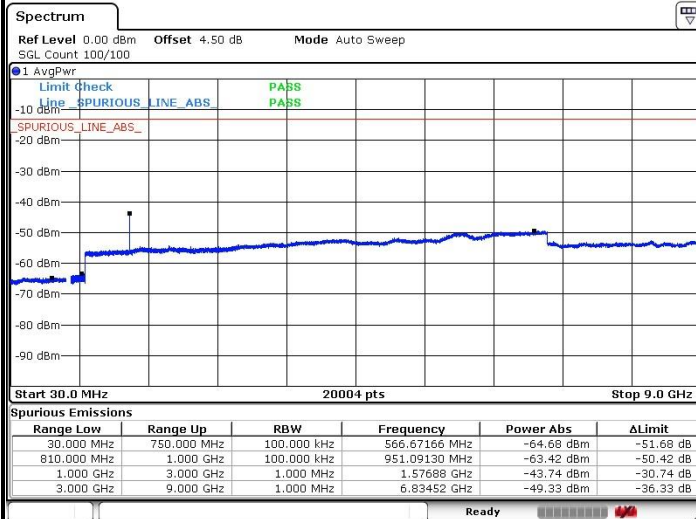


Date: 7.OCT.2018 01:36:09



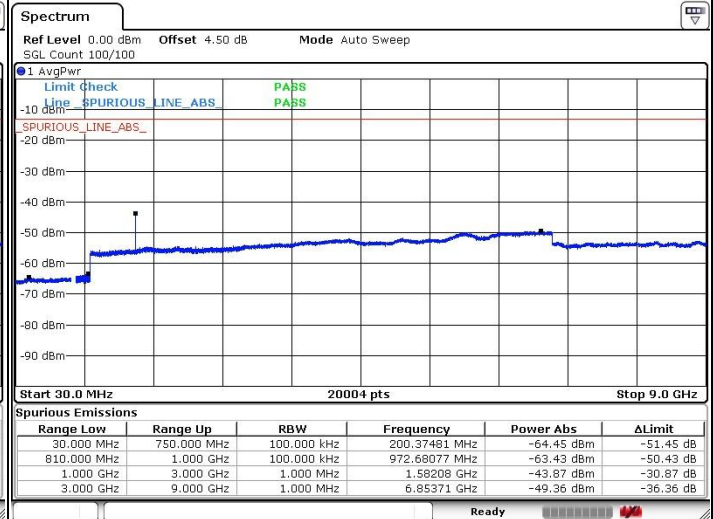
LTE Band 14 / 5MHz

Lowest Channel / 64QAM



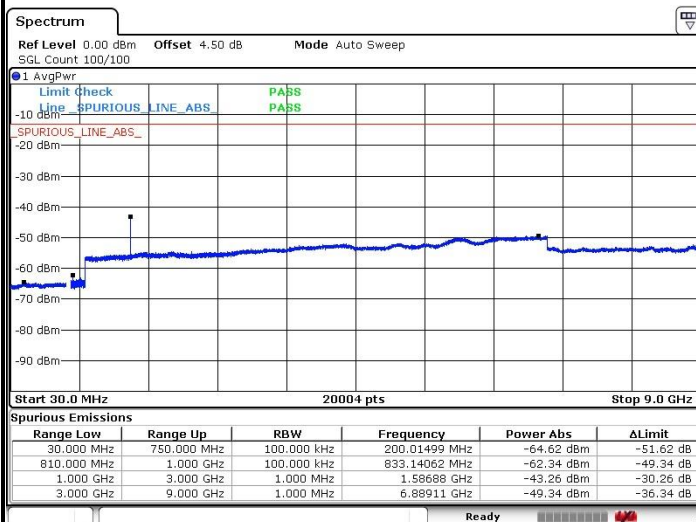
Date: 7.OCT.2018 01:31:53

Middle Channel / 64QAM



Date: 7.OCT.2018 01:32:29

Highest Channel / 64QAM

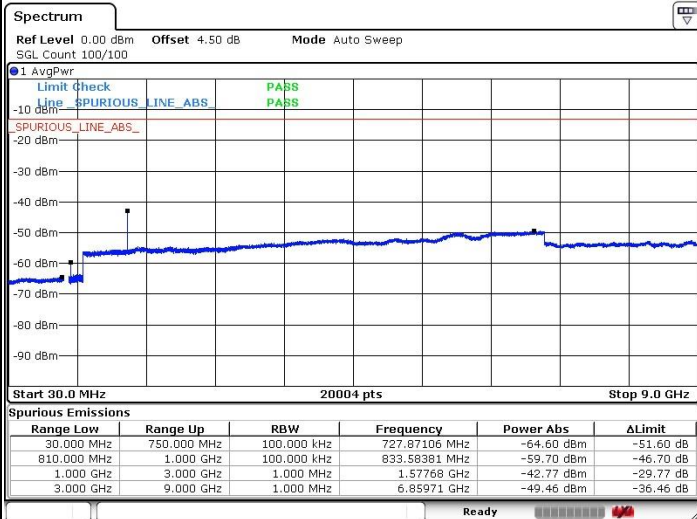


Date: 7.OCT.2018 01:35:00



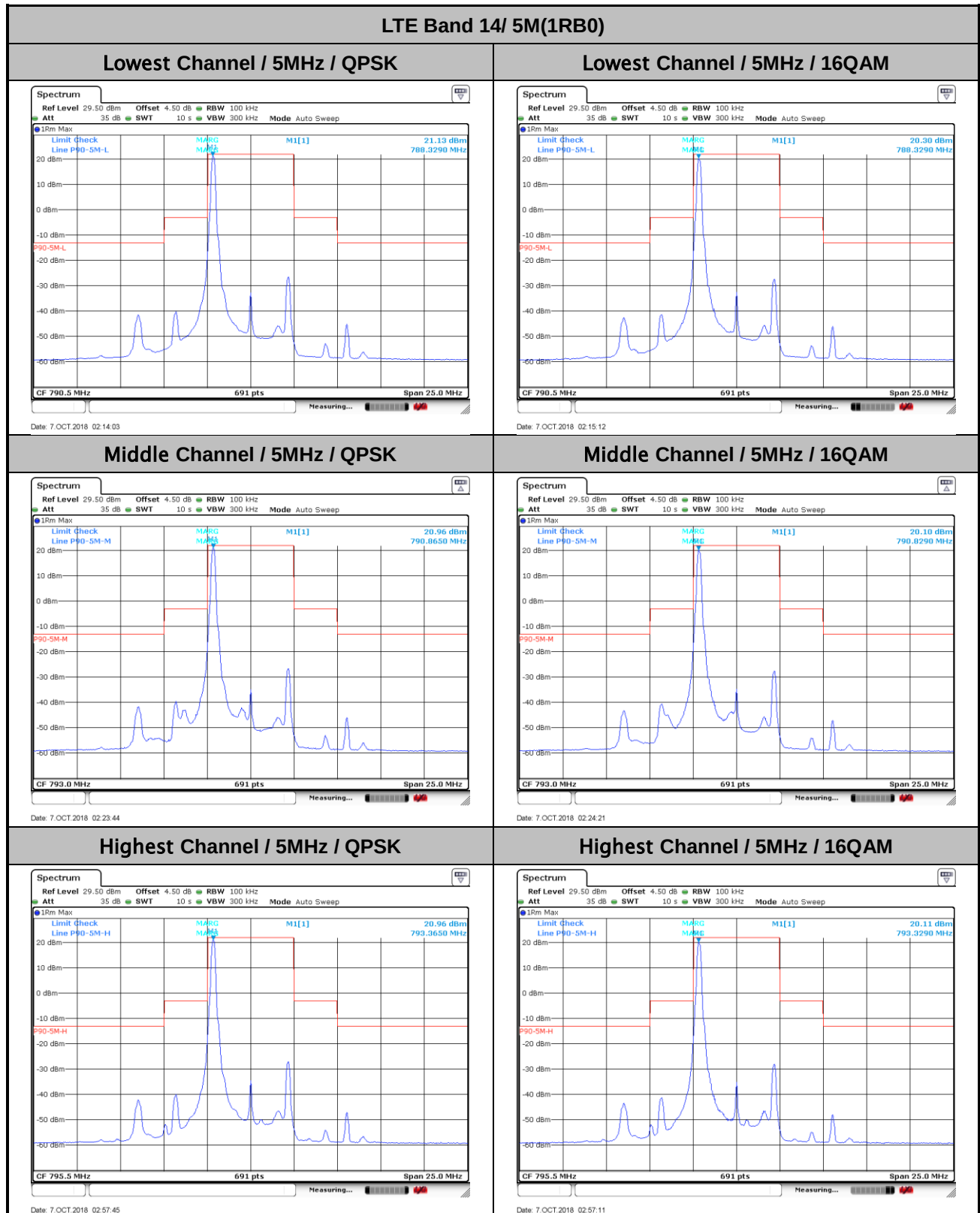
LTE Band 14 / 10MHz

Middle Channel / 64QAM



Date: 7.OCT.2018 01:35:39

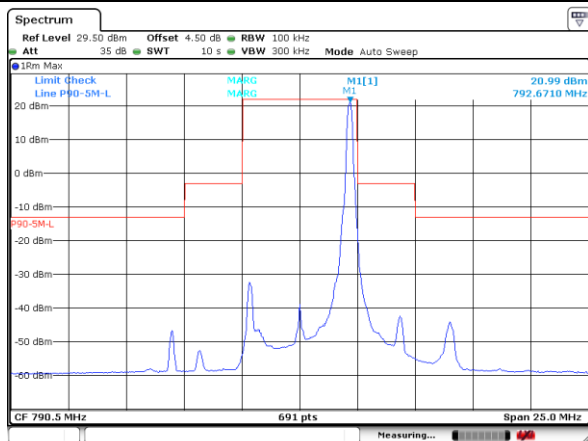
Emission Mask





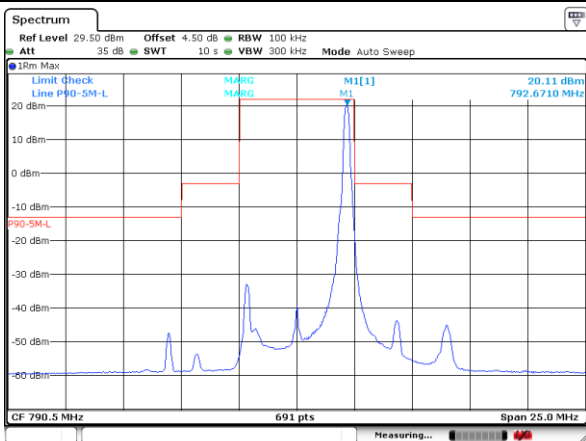
LTE Band 14/ 5M(1RBmax)

Lowest Channel / 5MHz / QPSK



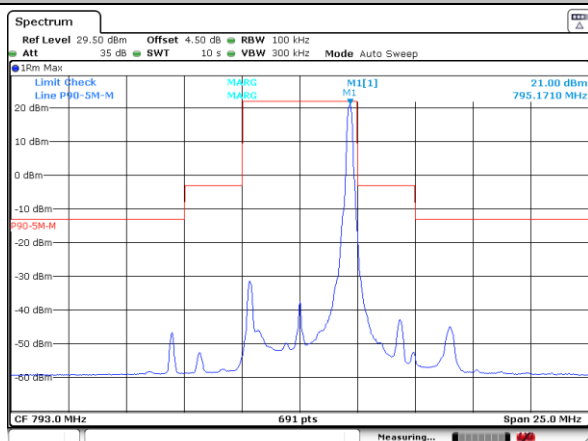
Date: 7.OCT.2018 02:17:21

Lowest Channel / 5MHz / 16QAM



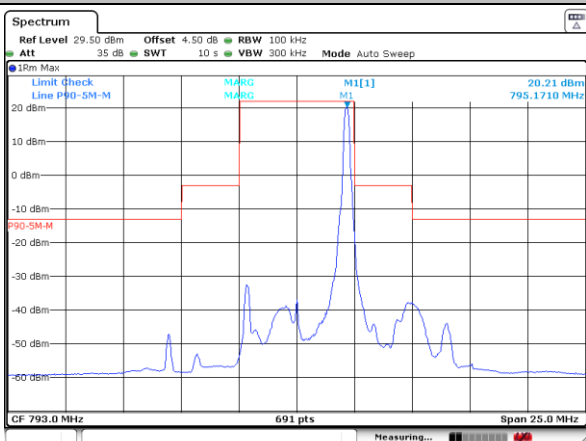
Date: 7.OCT.2018 02:16:51

Middle Channel / 5MHz / QPSK



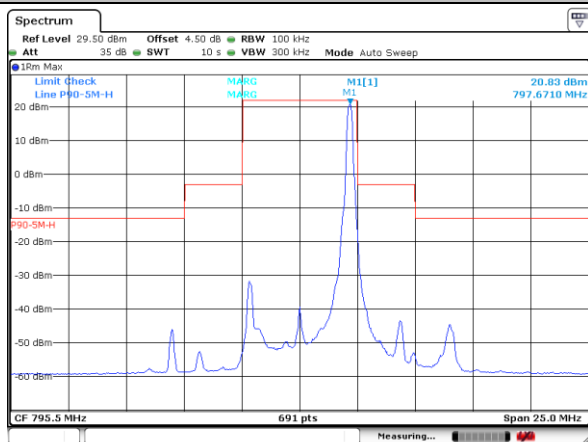
Date: 7.OCT.2018 02:51:51

Middle Channel / 5MHz / 16QAM



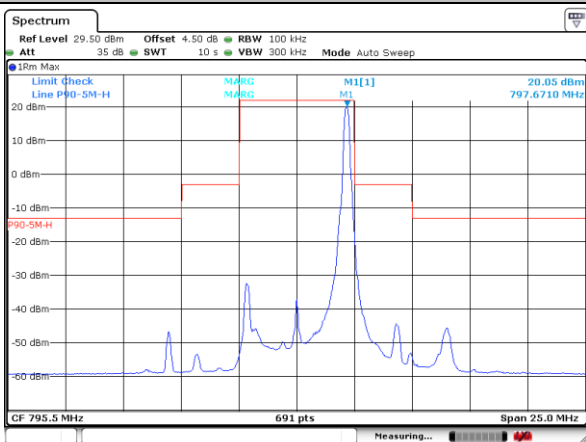
Date: 7.OCT.2018 02:26:04

Highest Channel / 5MHz / QPSK



Date: 7.OCT.2018 02:54:51

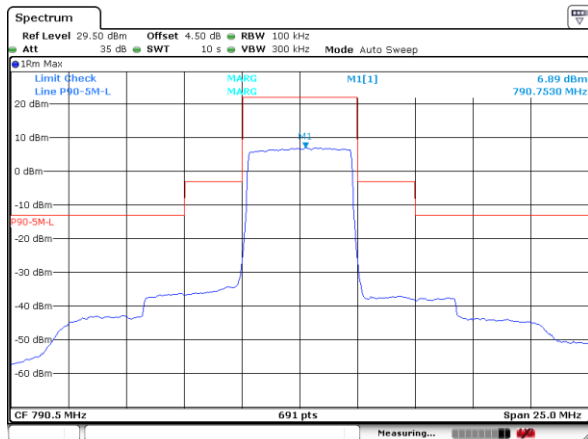
Highest Channel / 5MHz / 16QAM



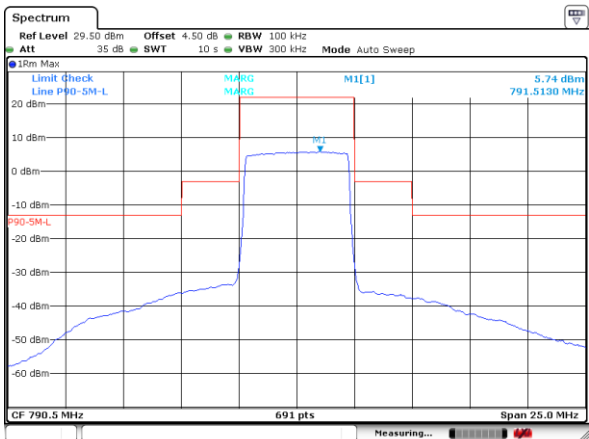
Date: 7.OCT.2018 02:55:32

LTE Band 14/ 5M(fullIRB0)

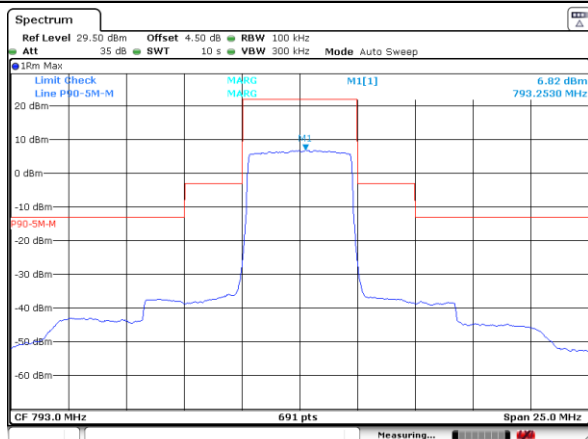
Lowest Channel / 5MHz / QPSK



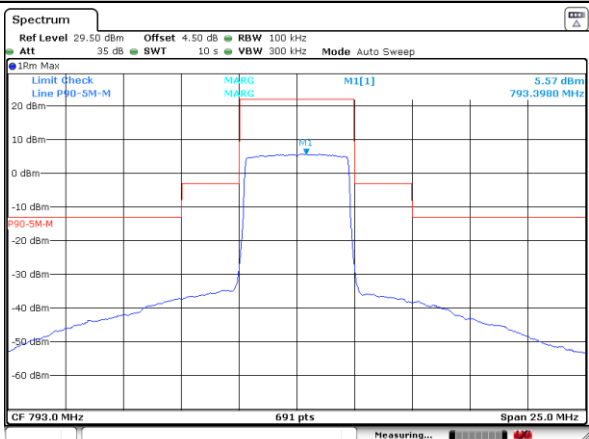
Lowest Channel / 5MHz / 16QAM



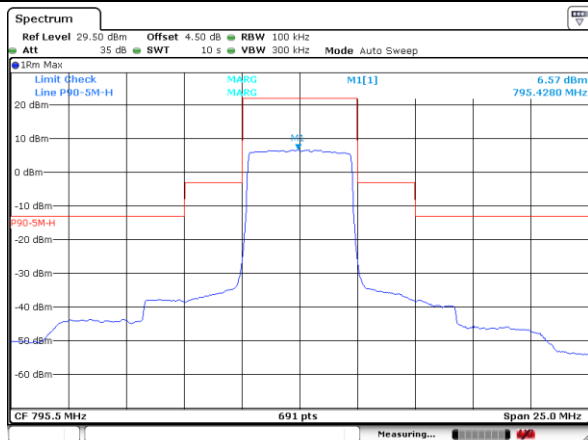
Middle Channel / 5MHz / QPSK



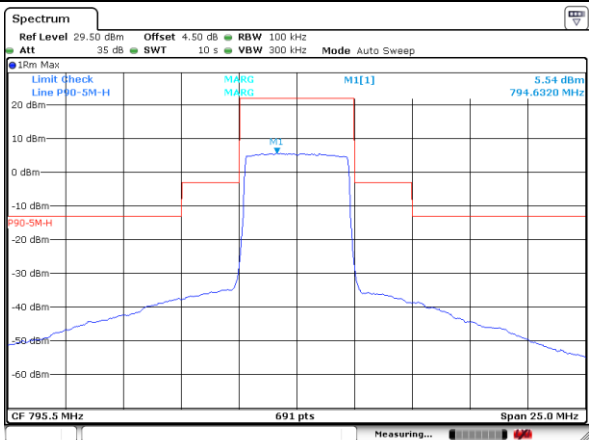
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

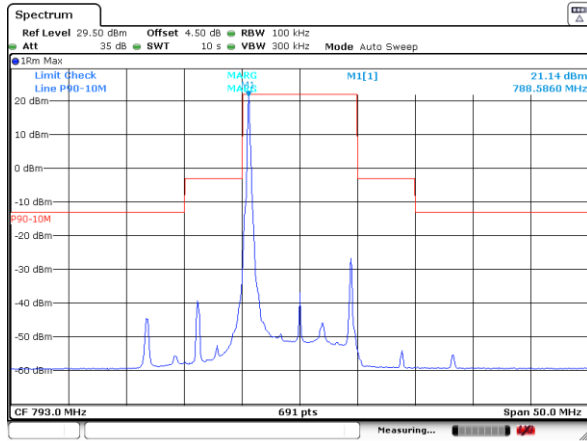


Highest Channel / 5MHz / 16QAM

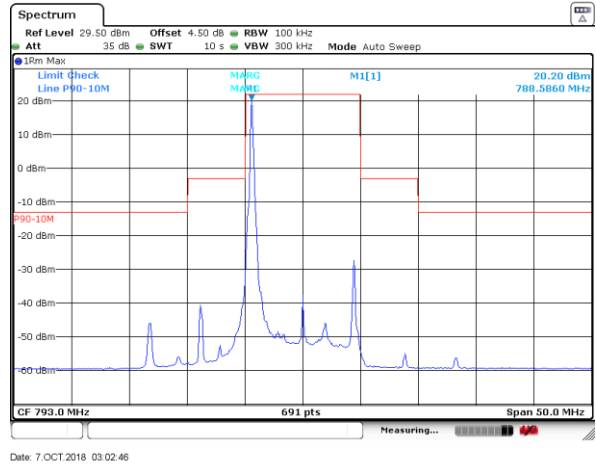


LTE Band 14/ 10MHz

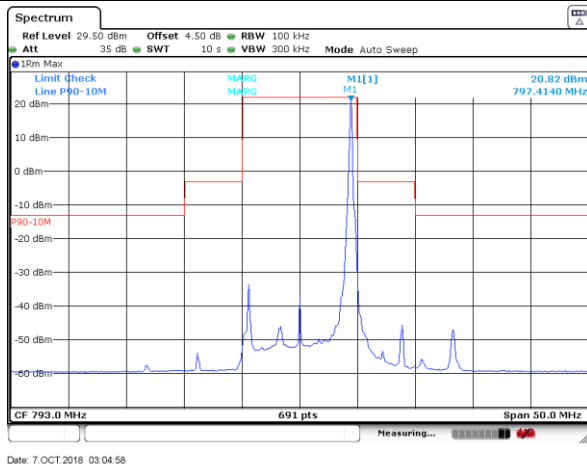
Middle Channel / 1RB0 / QPSK



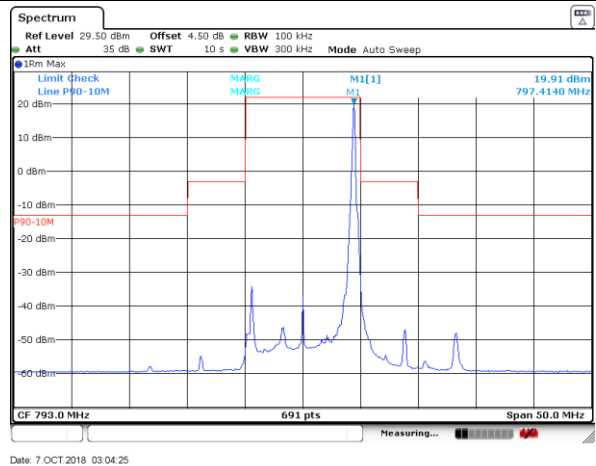
Middle Channel / 1RB0 / 16QAM



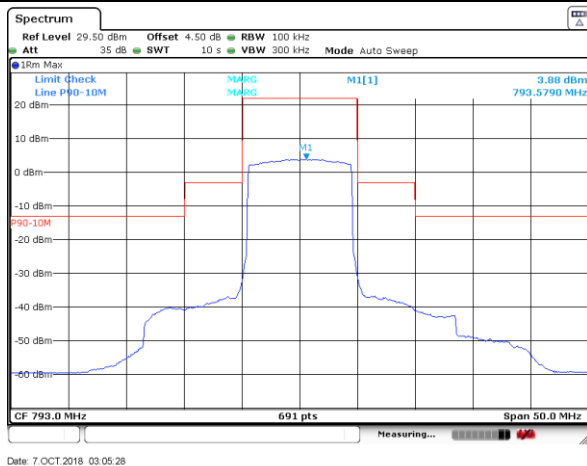
Middle Channel / 1RBmax / QPSK



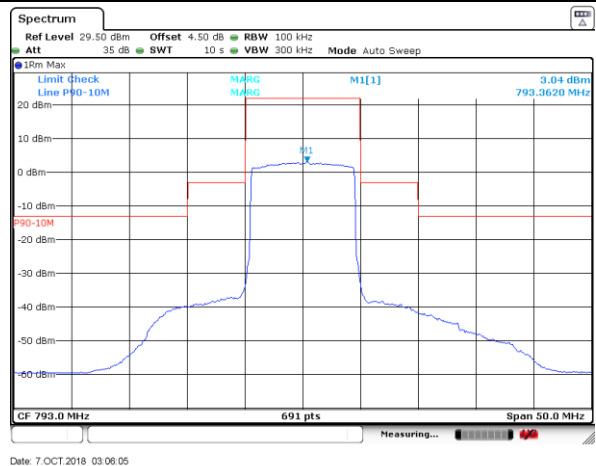
Middle Channel / 1RBmax / 16QAM



Middle Channel / fullRB0 / QPSK

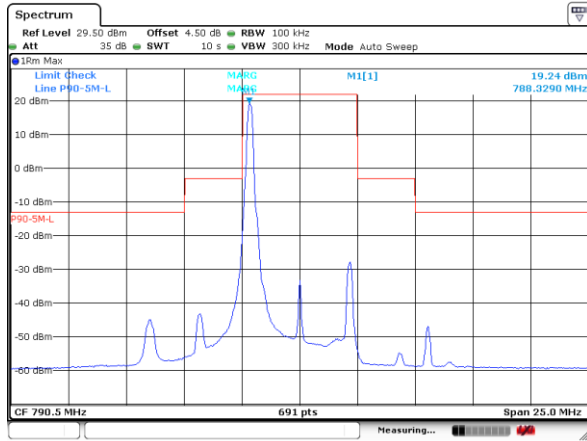


Middle Channel / fullRB0 / 16QAM

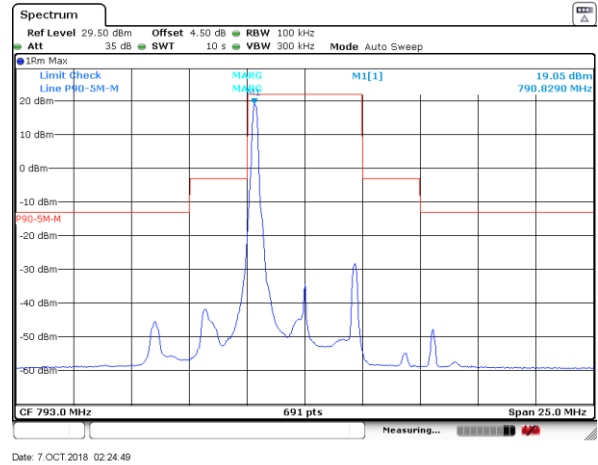


LTE Band 14/ 5MHz

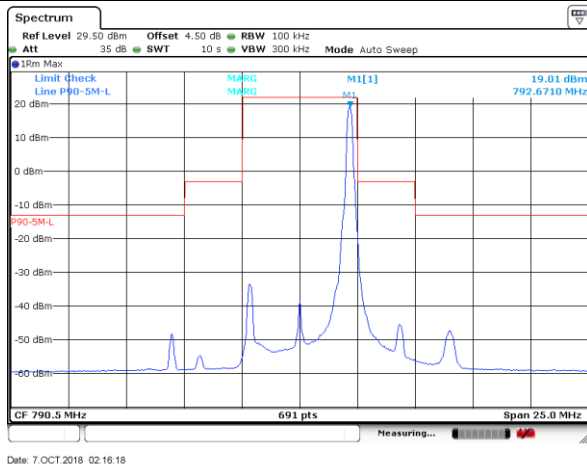
Lowest Channel / 1RB0 / 64QAM



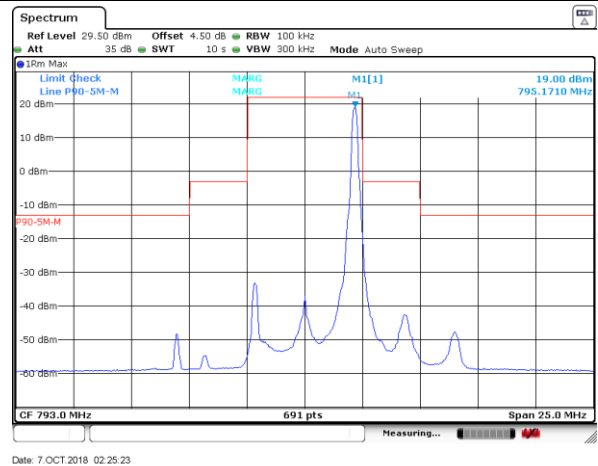
Middle Channel / 1RB0 / 64QAM



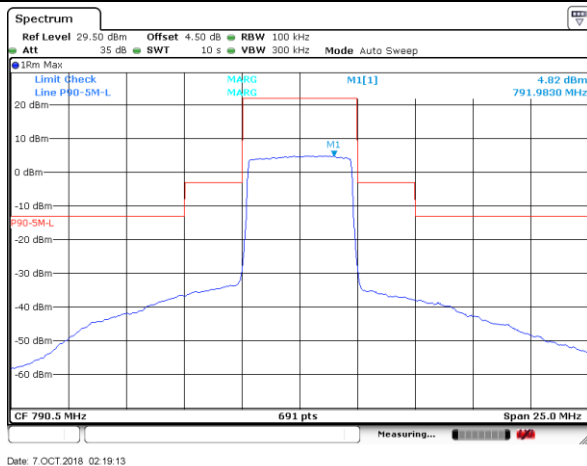
Lowest Channel / 1RBmax / 64QAM



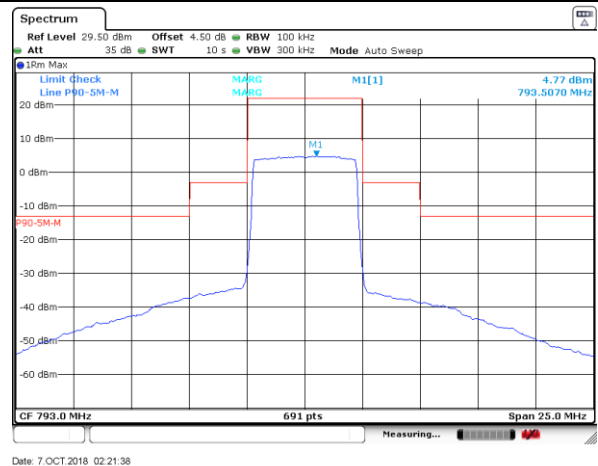
Middle Channel / 1RBmax / 64QAM



Lowest Channel / fullRB0 / 64QAM

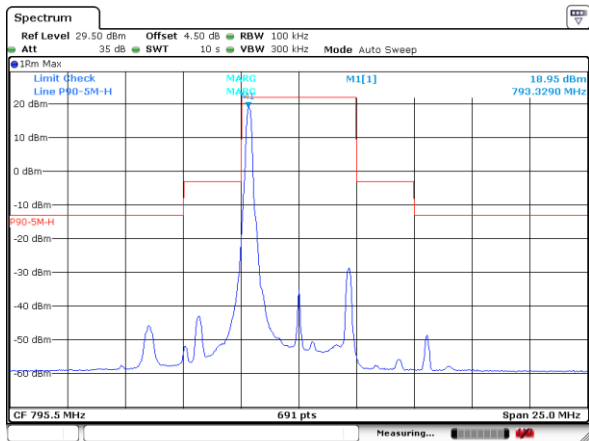


Middle Channel / fullRB0 / 64QAM



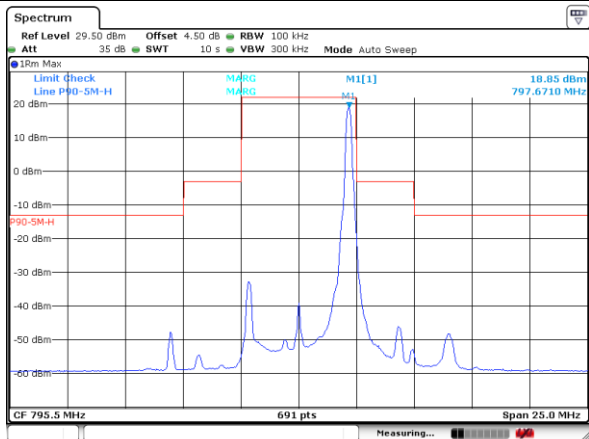
LTE Band 14/ 5MHz

Highest Channel / 1RB0 / 64QAM



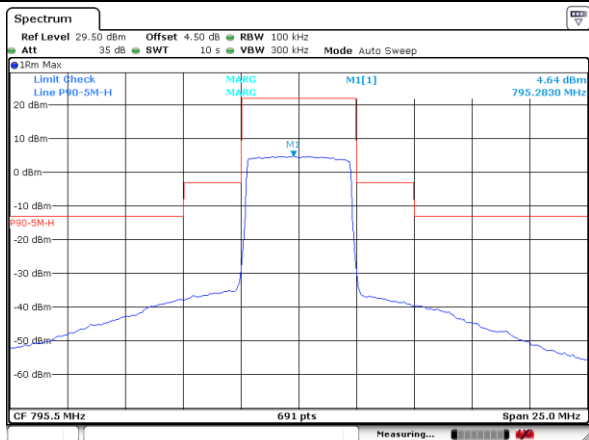
Date: 7.OCT.2018 02:56:38

Highest Channel / 1RBmax / 64QAM



Date: 7.OCT.2018 02:56:06

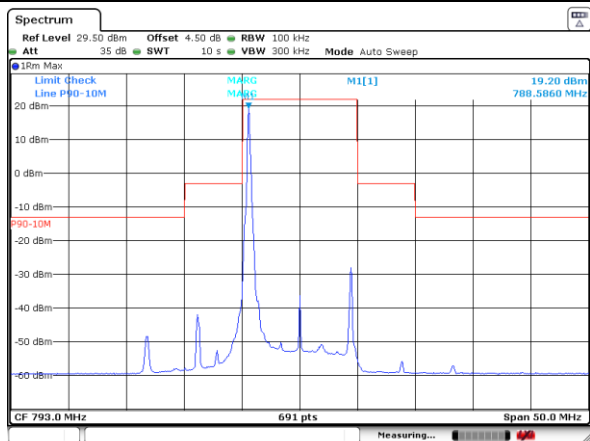
Highest Channel / fullRB0 / 64QAM



Date: 7.OCT.2018 02:59:24

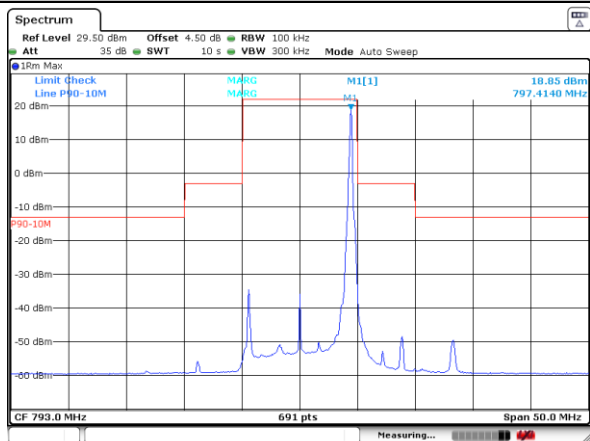
LTE Band 14/ 10MHz

Middle Channel / 1RB0 / 64QAM



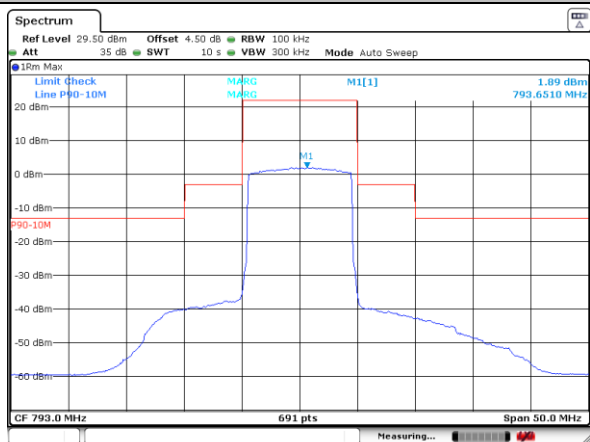
Date: 7.OCT.2018 03:03:16

Middle Channel / 1RBmax / 64QAM



Date: 7.OCT.2018 03:03:53

Middle Channel / fullRB0 / 64QAM



Date: 7.OCT.2018 03:06:41

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 =4V. ; 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

Field Strength of Spurious Radiated

LTE Band 14 / 5MHz / QPSK								
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	-65.86	-40	-25.86	-69.72	2.23	6.09	H
	2366	-65.34	-13	-52.34	-65.87	2.83	5.51	H
	3153	-63.81	-13	-50.81	-65.75	3.21	7.30	H
	1576	-65.72	-40	-25.72	-69.58	2.23	6.09	V
	2366	-65.60	-13	-52.60	-66.13	2.83	5.51	V
	3153	-63.53	-13	-50.53	-65.47	3.21	7.30	V
Middle	1582	-65.55	-40	-25.55	-69.41	2.23	6.09	H
	2372	-65.32	-13	-52.32	-65.85	2.83	5.51	H
	3162	-64.09	-13	-51.09	-66.03	3.21	7.30	H
	1582	-65.52	-40	-25.52	-69.38	2.23	6.09	V
	2372	-65.62	-13	-52.62	-66.15	2.83	5.51	V
	3162	-64.08	-13	-51.08	-66.02	3.21	7.30	V
Highest	1586	-65.96	-40	-25.96	-69.82	2.23	6.09	H
	2380	-65.07	-13	-52.07	-65.60	2.83	5.51	H
	3174	-63.98	-13	-50.98	-65.92	3.21	7.30	H
	1586	-65.66	-40	-25.66	-69.52	2.23	6.09	V
	2380	-65.55	-13	-52.55	-66.08	2.83	5.51	V
	3174	-63.90	-13	-50.90	-65.84	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								
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	-65.75	-40	-25.75	-69.61	2.23	6.09	H
	2365.77	-65.33	-13	-52.33	-65.86	2.83	5.51	H
	3153	-63.92	-13	-50.92	-65.86	3.21	7.30	H
	1578	-65.36	-40	-25.36	-69.22	2.23	6.09	V
	2366	-65.45	-13	-52.45	-65.98	2.83	5.51	V
	3153	-63.90	-13	-50.90	-65.84	3.21	7.30	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Test Result				PASS				