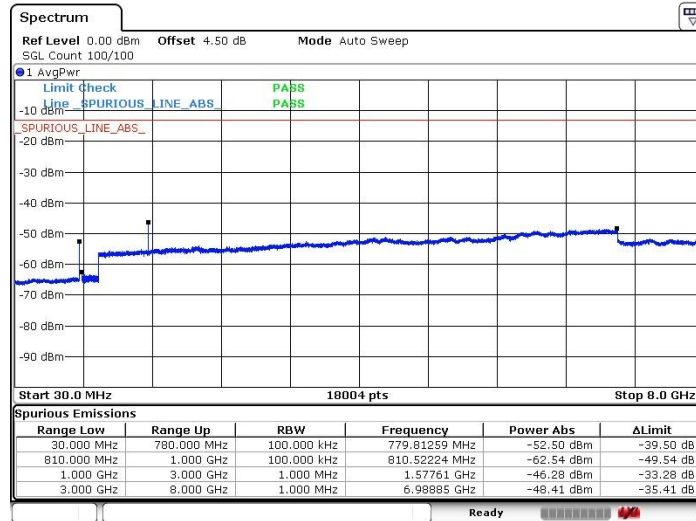




LTE Band 14 / 10MHz

Middle Channel / 64QAM



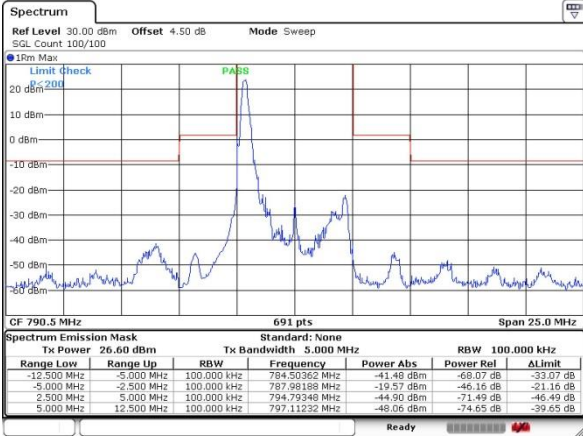
Date: 7.MAY.2019 23:26:13



Emission Mask

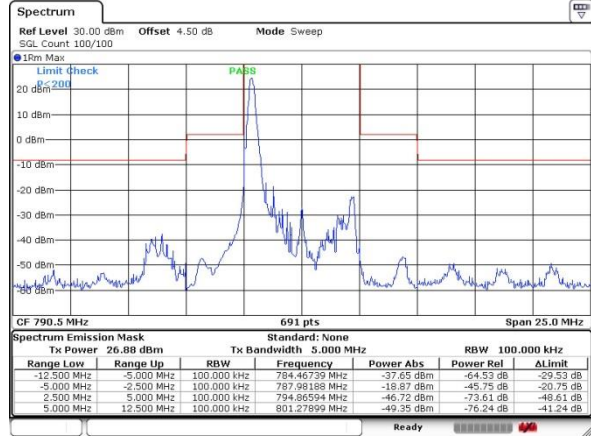
LTE Band 14/ 5MHz

Lowest Channel / 5MHz / QPSK



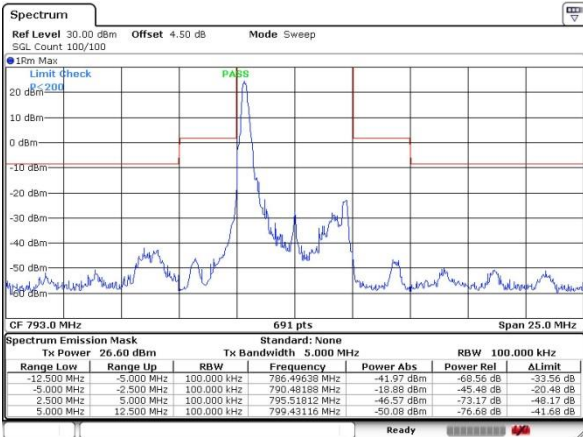
Date: 29 MAY 2019 04:38:45

Lowest Channel / 5MHz / 16QAM



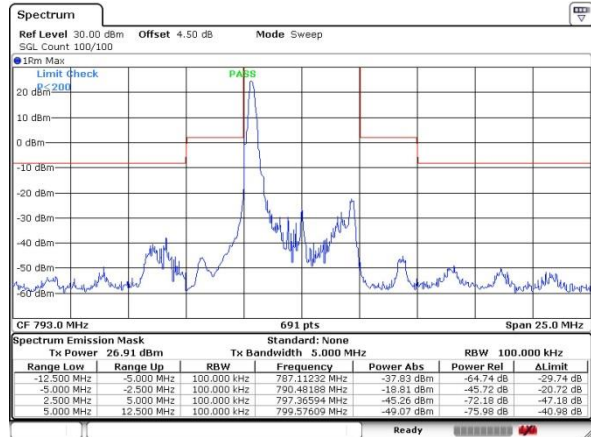
Date: 29 MAY 2019 04:38:29

Middle Channel / 5MHz / QPSK



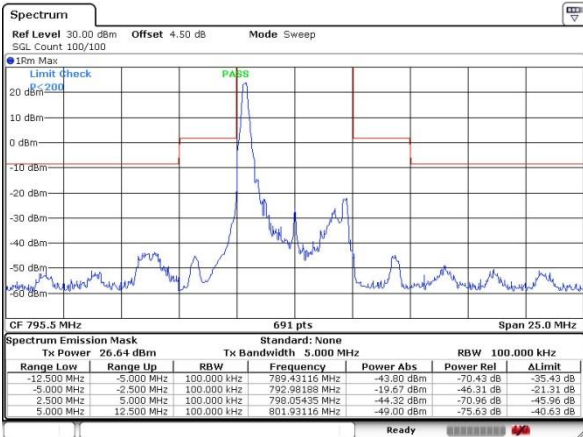
Date: 29 MAY 2019 04:34:41

Middle Channel / 5MHz / 16QAM



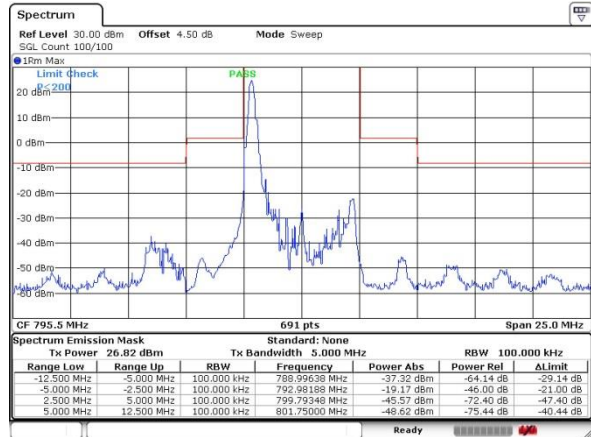
Date: 29 MAY 2019 04:34:23

Highest Channel / 5MHz / QPSK



Date: 29 MAY 2019 04:42:38

Highest Channel / 5MHz / 16QAM

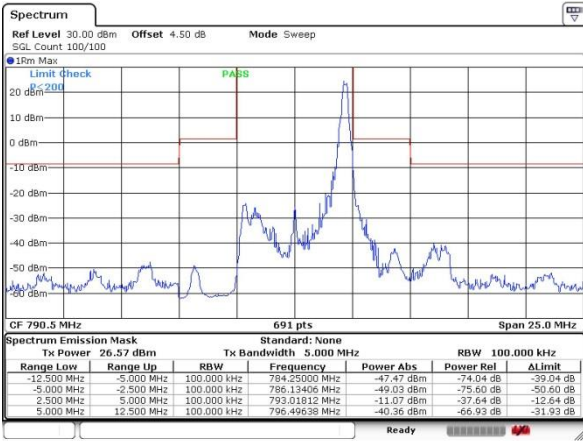


Date: 29 MAY 2019 04:42:59



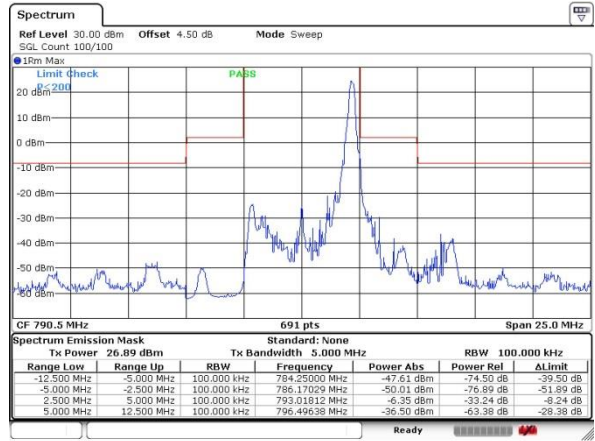
LTE Band 14/ 5MHz

Lowest Channel / 5MHz / QPSK



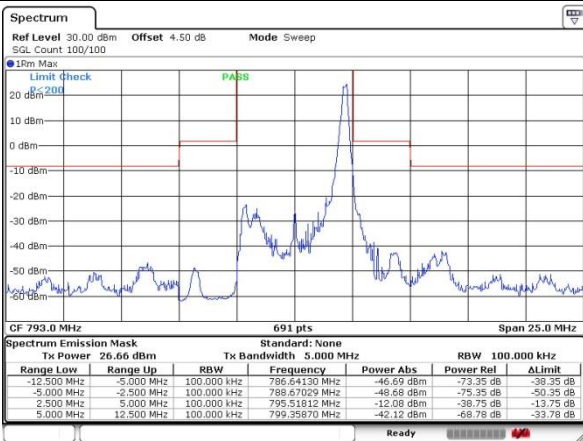
Date: 29 MAY 2019 04:40:03

Lowest Channel / 5MHz / 16QAM



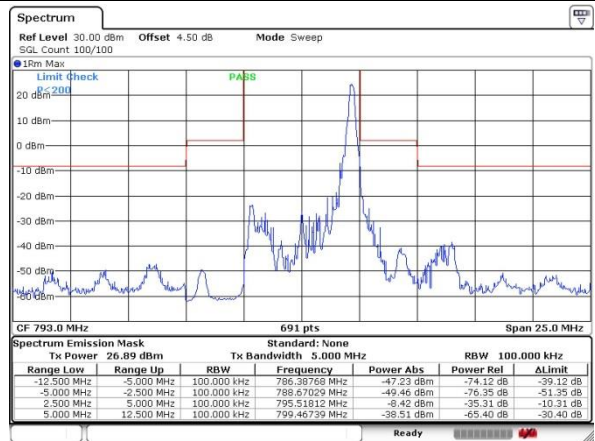
Date: 29 MAY 2019 04:40:24

Middle Channel / 5MHz / QPSK



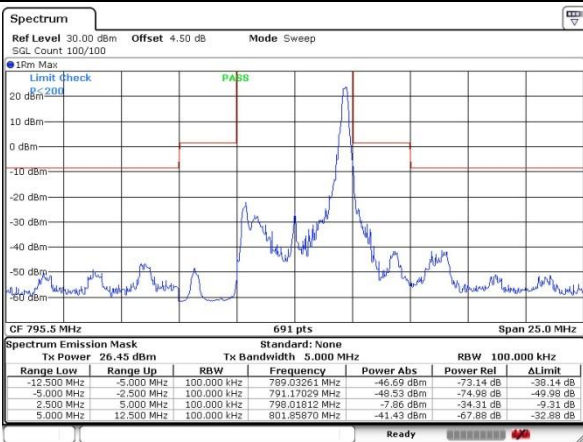
Date: 29 MAY 2019 04:34:59

Middle Channel / 5MHz / 16QAM



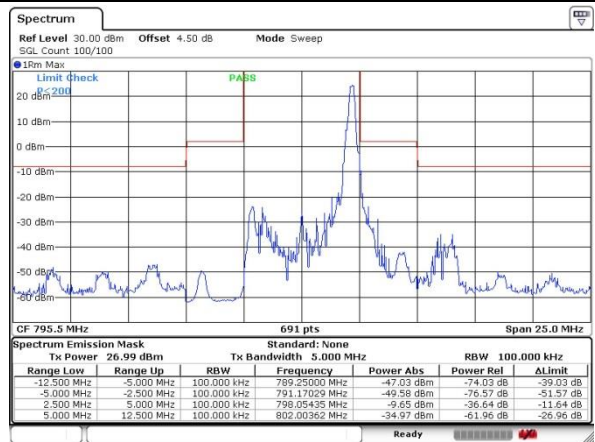
Date: 29 MAY 2019 04:35:19

Highest Channel / 5MHz / QPSK



Date: 29 MAY 2019 04:42:15

Highest Channel / 5MHz / 16QAM

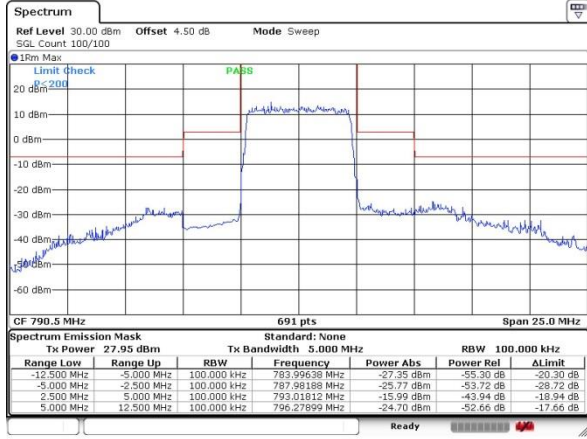


Date: 29 MAY 2019 04:41:57



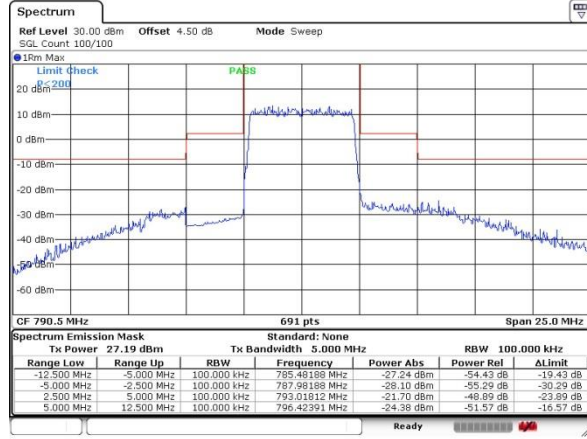
LTE Band 14/ 5MHz

Lowest Channel / 5MHz / QPSK



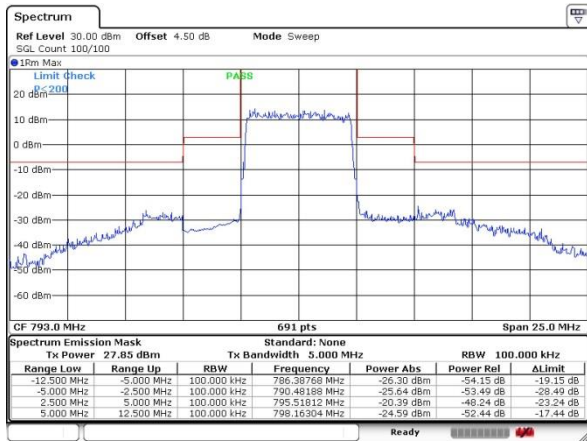
Date: 29 MAY 2019 04:37:20

Lowest Channel / 5MHz / 16QAM



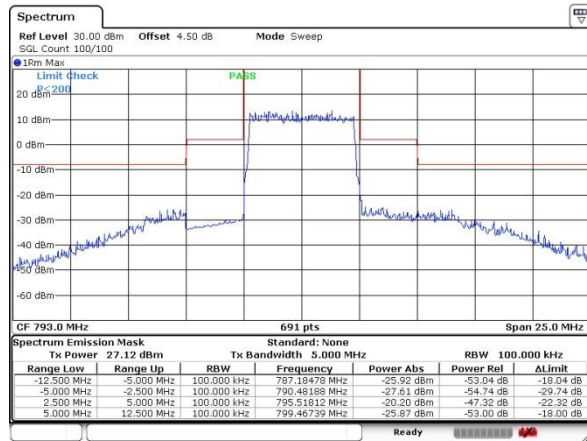
Date: 29 MAY 2019 04:37:40

Middle Channel / 5MHz / QPSK



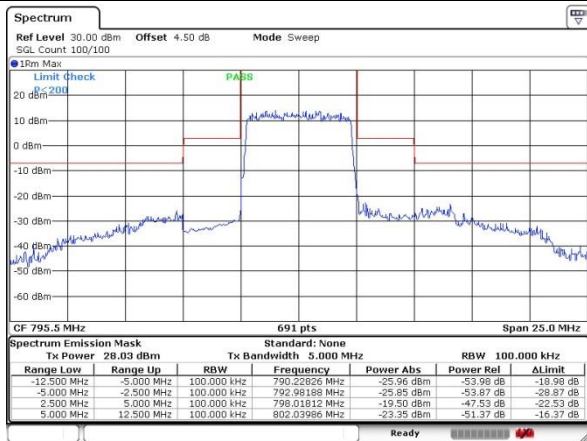
Date: 29 MAY 2019 04:36:56

Middle Channel / 5MHz / 16QAM



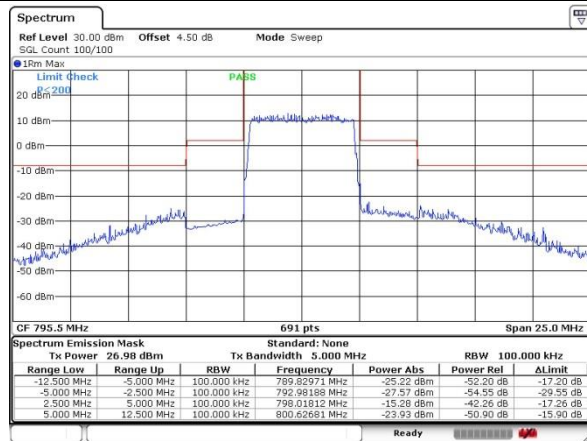
Date: 29 MAY 2019 04:36:30

Highest Channel / 5MHz / QPSK



Date: 29 MAY 2019 04:44:16

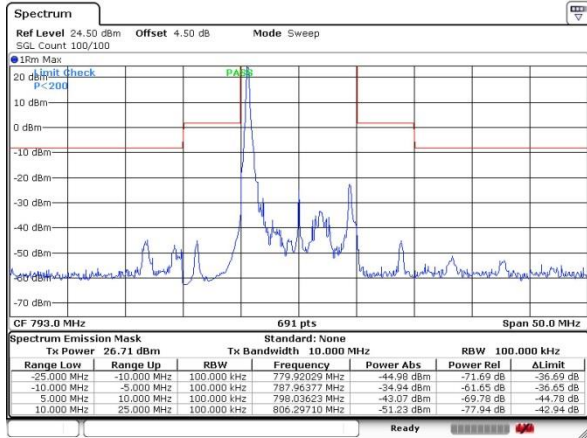
Highest Channel / 5MHz / 16QAM



Date: 29 MAY 2019 04:44:00

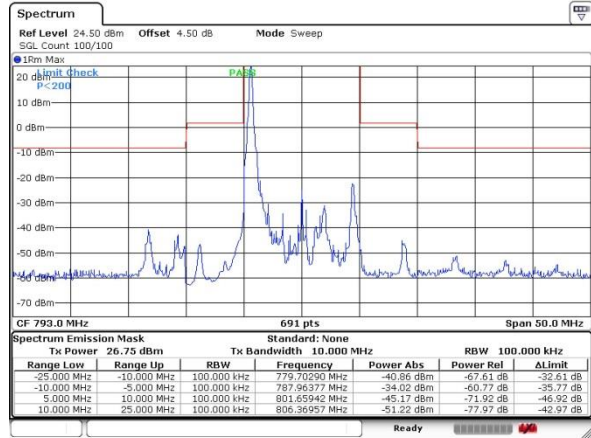
LTE Band 14/ 10MHz

Middle Channel / 1RB0 / QPSK



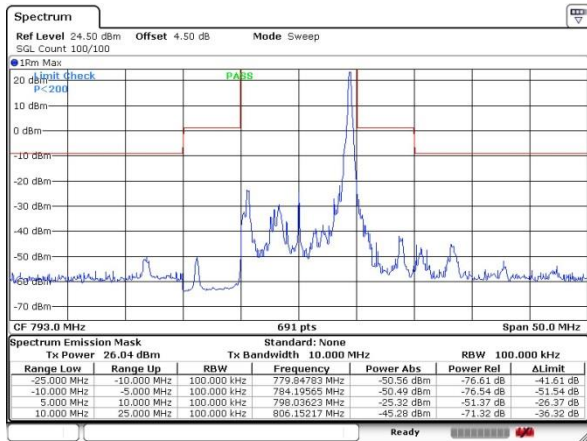
Date: 29 MAY 2019 04:28:34

Middle Channel / 1RB0 / 16QAM



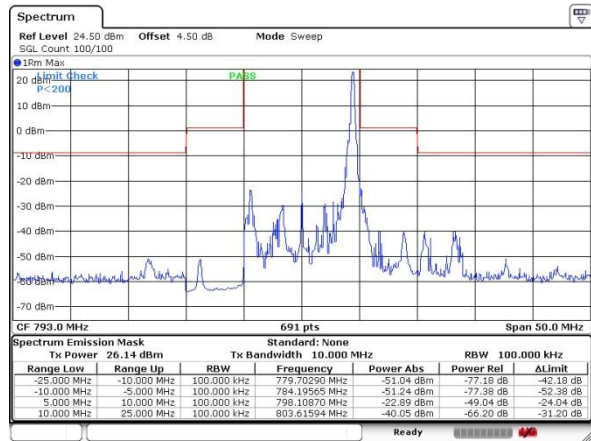
Date: 29 MAY 2019 04:29:13

Middle Channel / 1RBmax / QPSK



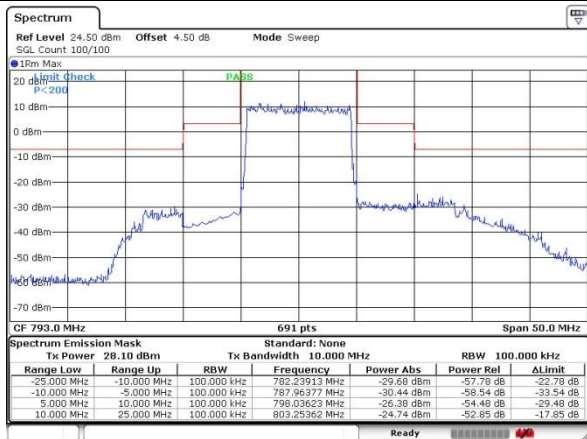
Date: 29 MAY 2019 04:31:01

Middle Channel / 1RBmax / 16QAM



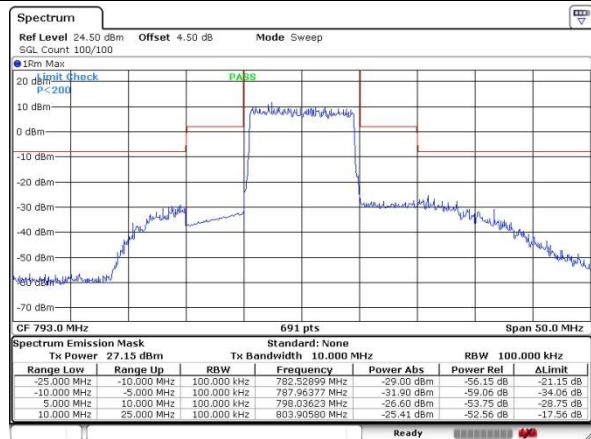
Date: 29 MAY 2019 04:30:36

Middle Channel / full RB / QPSK



Date: 29 MAY 2019 04:28:13

Middle Channel / full RB / 16QAM

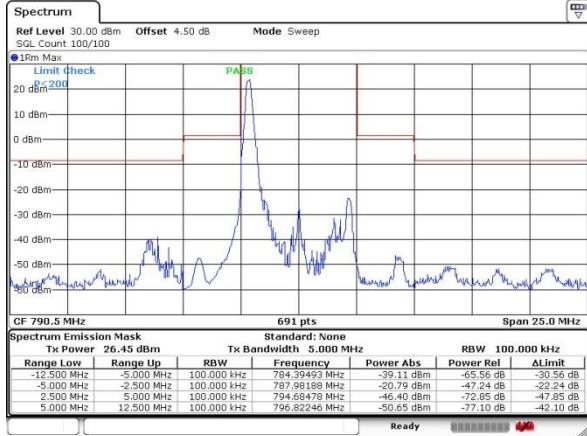


Date: 29 MAY 2019 04:27:49



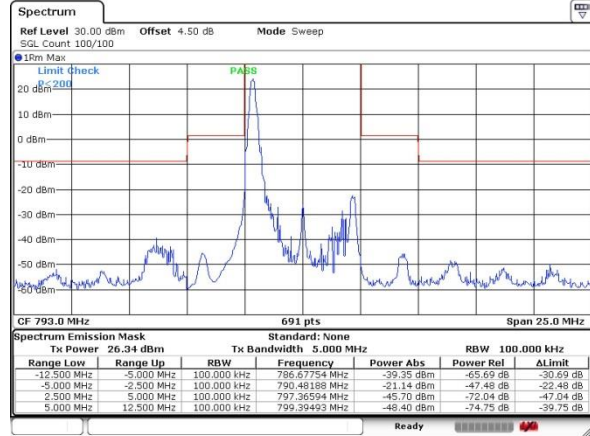
LTE Band 14/ 5MHz

Lowest Channel / 1RB0 / 64QAM



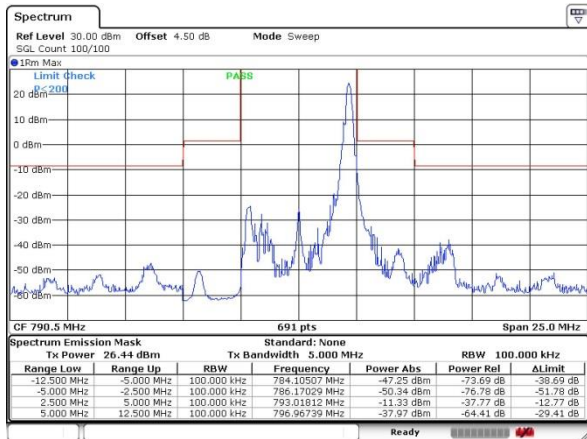
Date: 29 MAY 2019 04:38:55

Middle Channel / 1RB0 / 64QAM



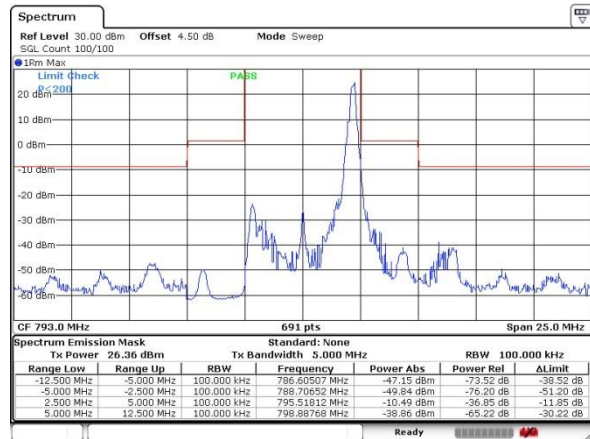
Date: 29 MAY 2019 04:33:59

Lowest Channel / 1RBmax / 64QAM



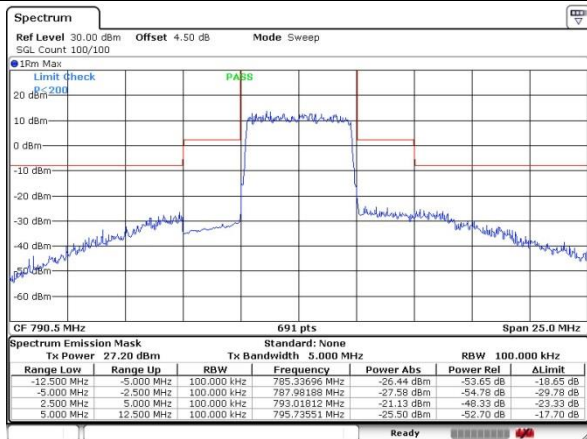
Date: 29 MAY 2019 04:40:51

Middle Channel / 1RBmax / 64QAM



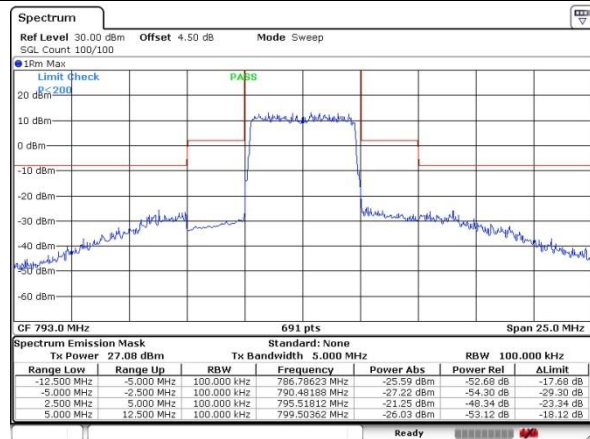
Date: 29 MAY 2019 04:35:37

Lowest Channel / full RB / 64QAM



Date: 29 MAY 2019 04:37:59

Middle Channel / full RB / 64QAM

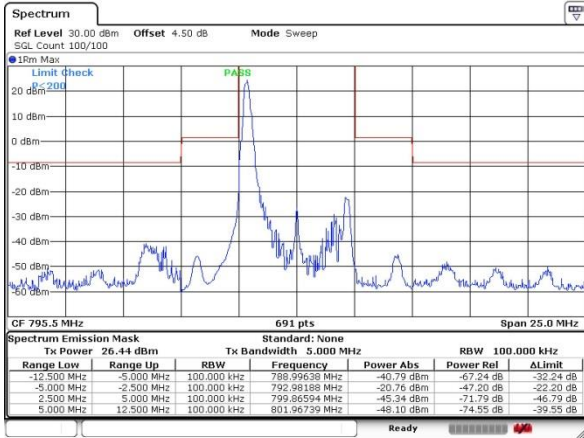


Date: 29 MAY 2019 04:35:54



LTE Band 14/ 5MHz

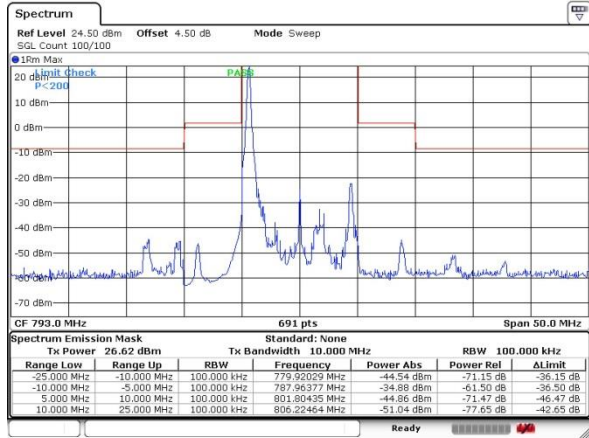
Highest Channel / 1RB0 / 64QAM



Date: 29 MAY 2019 04:43:22

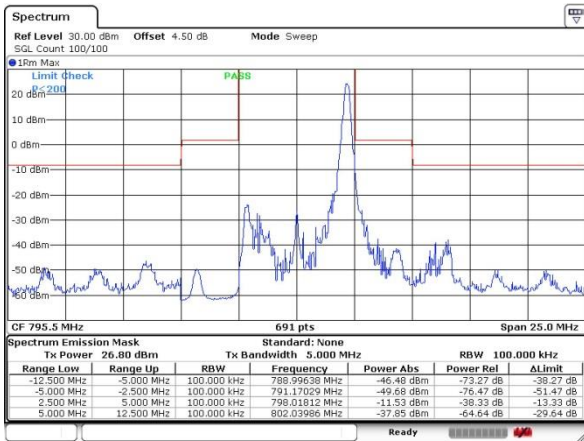
LTE Band 14/ 10MHz

Middle Channel / 1RB0 / 64QAM



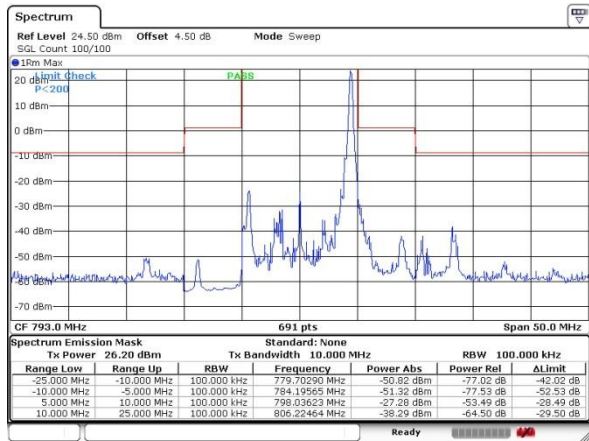
Date: 29 MAY 2019 04:29:39

Highest Channel / 1RBmax / 64QAM



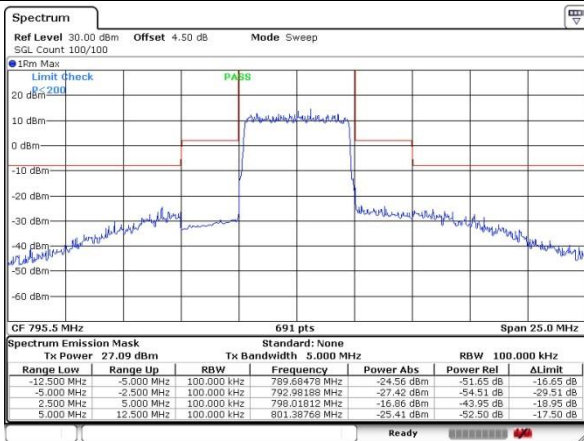
Date: 29 MAY 2019 04:41:37

Middle Channel / 1RBmax / 64QAM



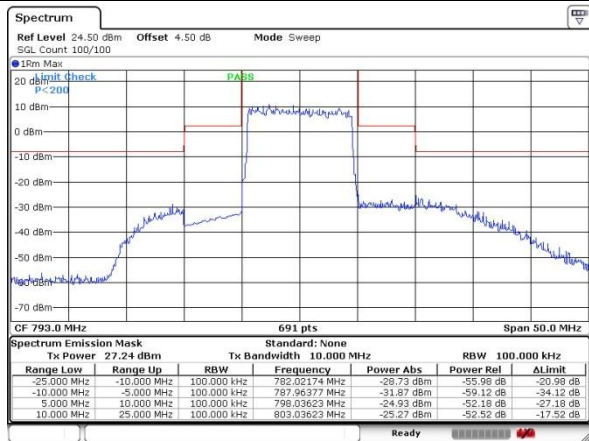
Date: 29 MAY 2019 04:30:04

Highest Channel / full RB / 64QAM



Date: 29 MAY 2019 04:43:40

Middle Channel / full RB / 64QAM



Date: 29 MAY 2019 04:27:26



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	1.25ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0042	PASS
40	Normal Voltage	0.0033	
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	0.0000	
20	Battery End Point	0.0026	

Note: Normal Voltage =5V. ; Battery End Point (BEP) =4.75V. ; Maximum Voltage =5.25V.



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	-67.31	-42.15	-25.16	-69.94	1.09	5.87	H
	2366	-64.32	-13	-51.32	-66.72	1.37	5.92	H
	3156	-63.61	-13	-50.61	-67.50	1.64	7.68	H
	1576	-67.06	-42.15	-24.91	-69.69	1.09	5.87	V
	2366	-63.93	-13	-50.93	-66.33	1.37	5.92	V
	3156	-63.71	-13	-50.71	-67.60	1.64	7.68	V
Middle	1582	-66.04	-42.15	-23.89	-68.67	1.09	5.87	H
	2372	-61.85	-13	-48.85	-64.25	1.37	5.92	H
	3162	-63.59	-13	-50.59	-67.48	1.64	7.68	H
	1582	-65.33	-42.15	-23.18	-67.96	1.09	5.87	V
	2372	-60.46	-13	-47.46	-62.86	1.37	5.92	V
	3162	-63.49	-13	-50.49	-67.38	1.64	7.68	V
Highest	1586	-66.53	-42.15	-24.38	-69.16	1.09	5.87	H
	2380	-63.19	-13	-50.19	-65.59	1.37	5.92	H
	3174	-64.09	-13	-51.09	-67.98	1.64	7.68	H
	1586	-67.02	-42.15	-24.87	-69.65	1.09	5.87	V
	2380	-63.10	-13	-50.10	-65.50	1.37	5.92	V
	3174	-64.07	-13	-51.07	-67.96	1.64	7.68	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	-62.90	-42.15	-20.75	-65.53	1.09	5.87	H
	2366	-60.61	-13	-47.61	-63.01	1.37	5.92	H
	3156	-64.41	-13	-51.41	-68.30	1.64	7.68	H
	1578	-61.49	-42.15	-19.34	-64.12	1.09	5.87	V
	2366	-60.30	-13	-47.30	-62.70	1.37	5.92	V
	3156	-63.89	-13	-50.89	-67.78	1.64	7.68	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Test Result					PASS			