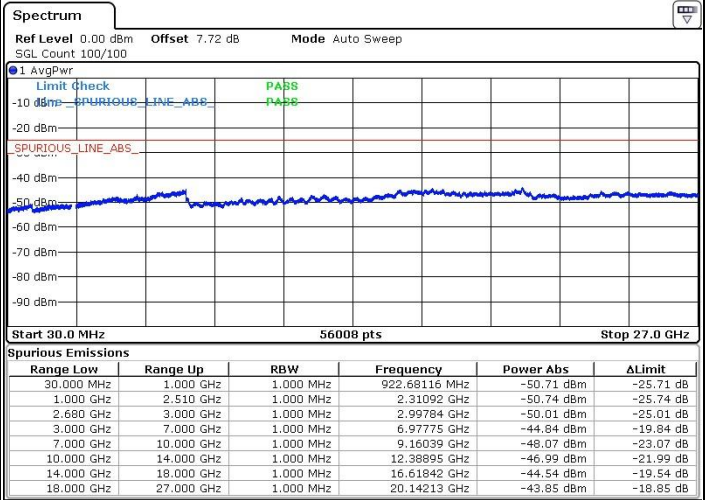
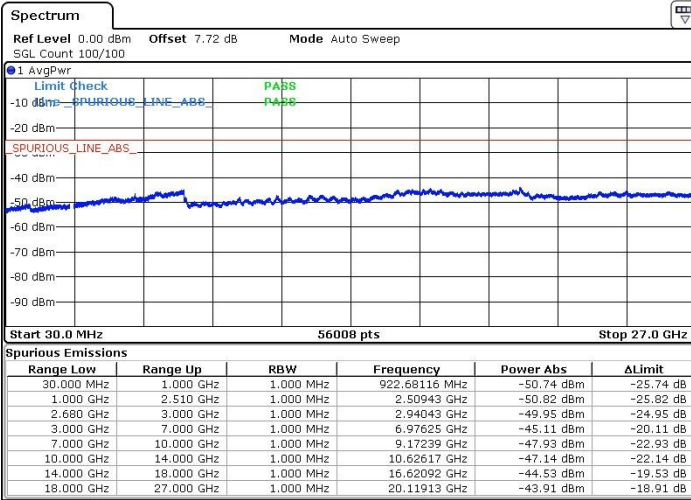




LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

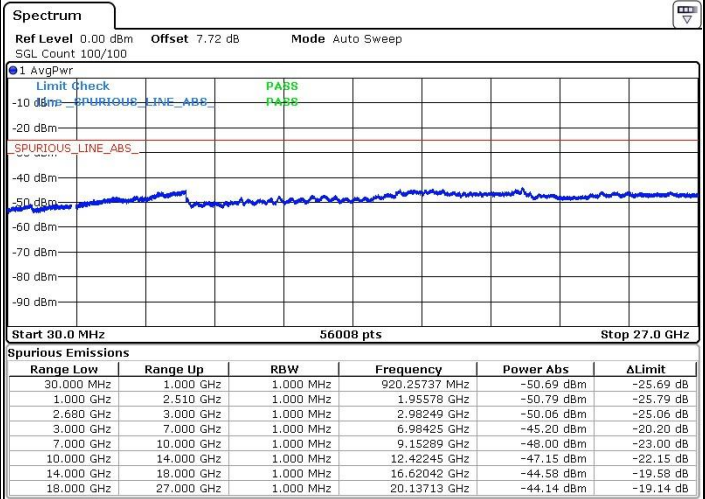
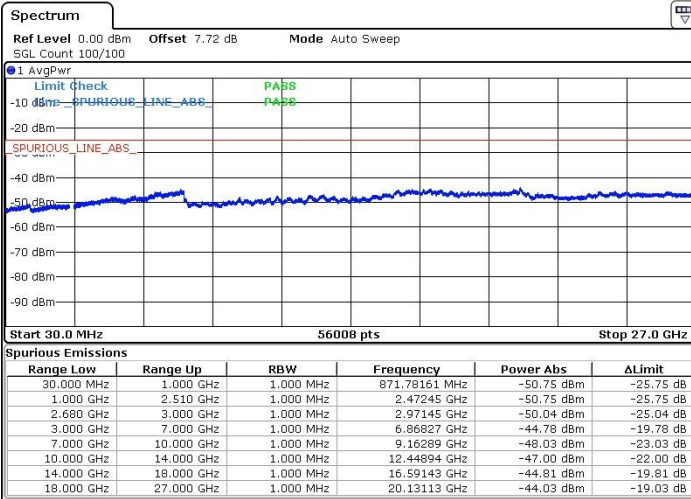


Date: 22.MAY.2018 22:30:44

Date: 22.MAY.2018 22:32:12

Middle Channel / QPSK

Middle Channel / 16QAM

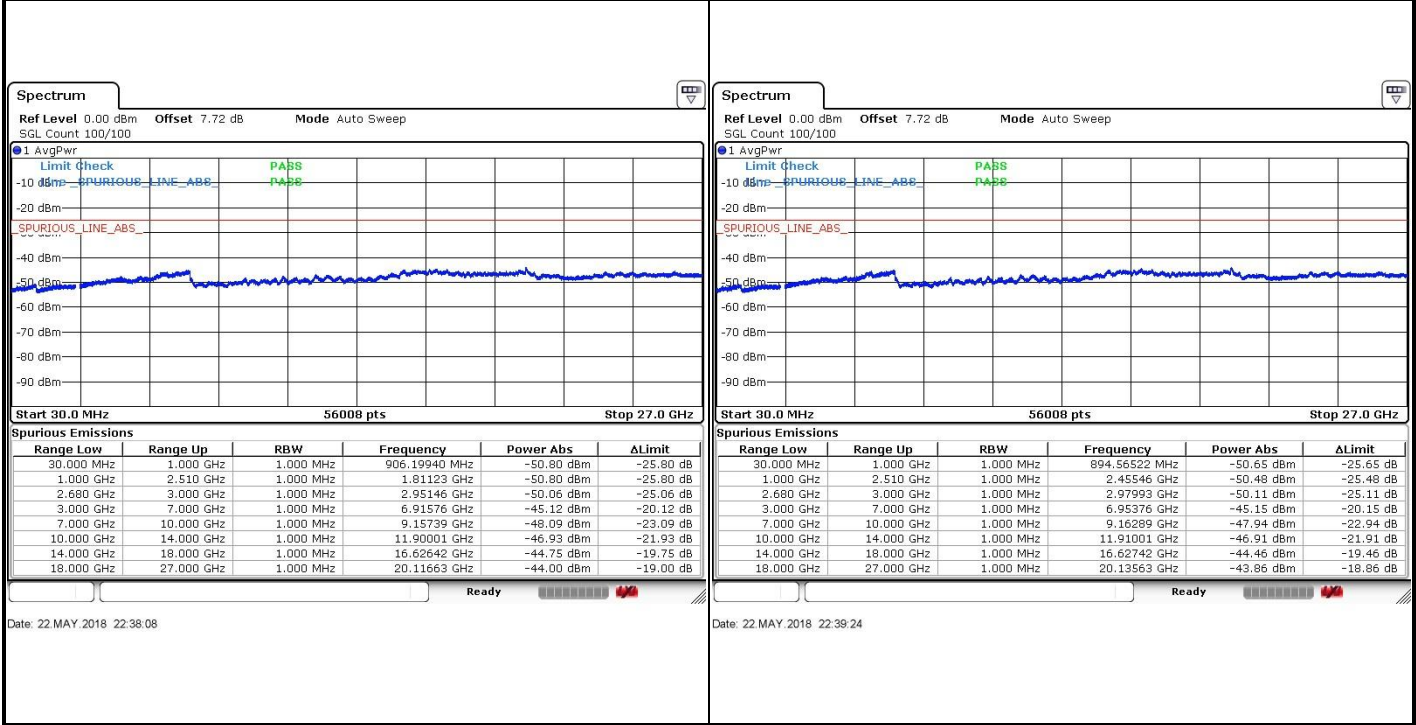


Date: 22.MAY.2018 22:37:02

Date: 22.MAY.2018 22:35:46

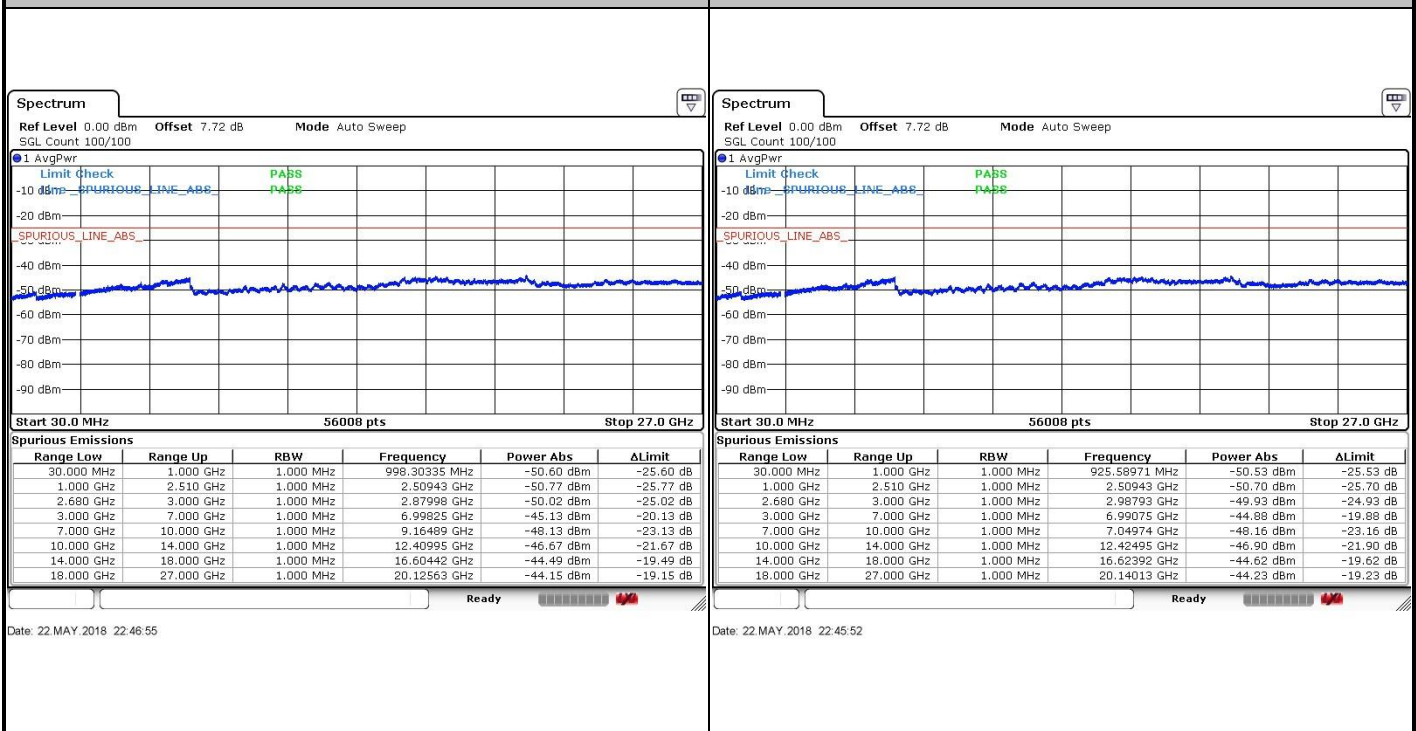


<b>Highest Channel / QPSK</b>	<b>Highest Channel / 16QAM</b>
-------------------------------	--------------------------------



**LTE Band 41 / 20MHz**

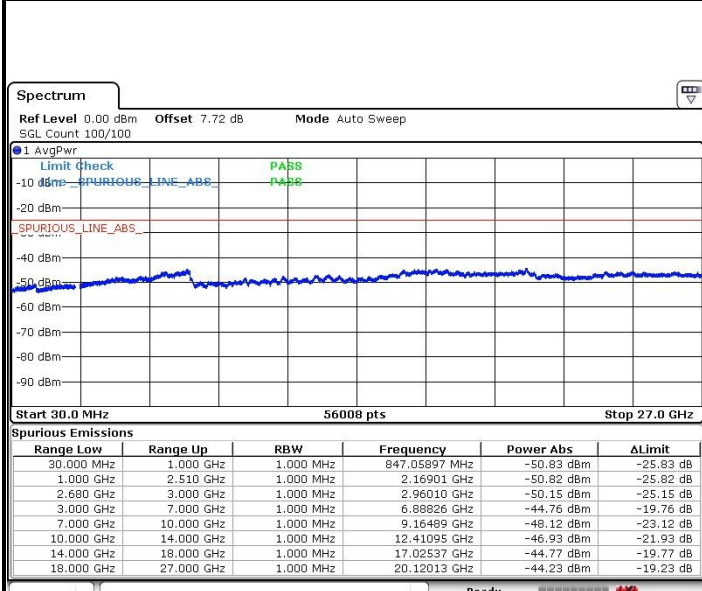
<b>Lowest Channel / QPSK</b>	<b>Lowest Channel / 16QAM</b>
------------------------------	-------------------------------





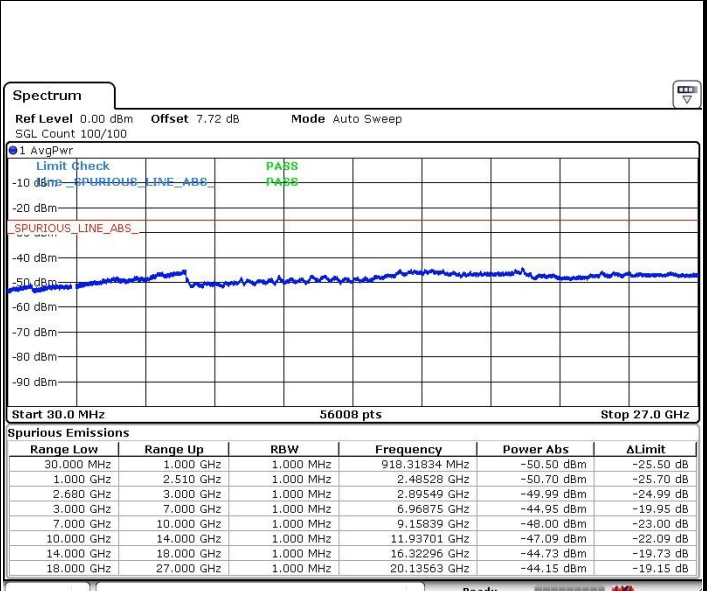
LTE Band 41 / 20MHz

Middle Channel / QPSK



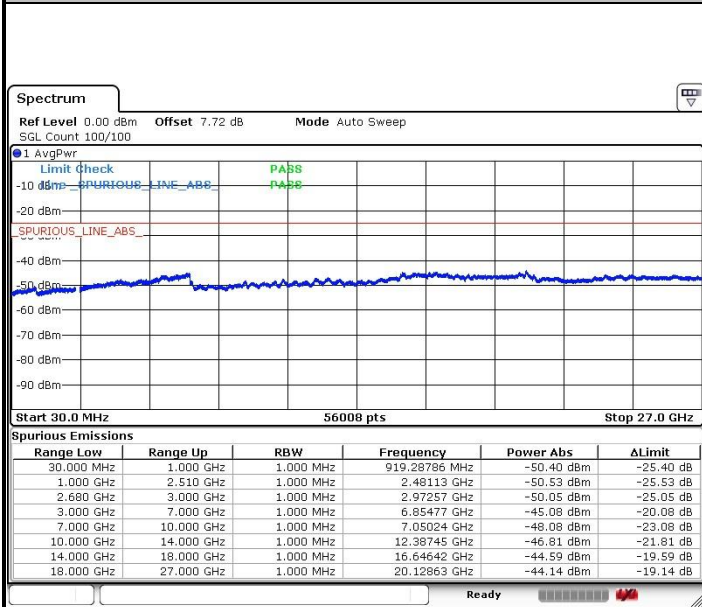
Date: 22 MAY 2018 22:47:52

Middle Channel / 16QAM



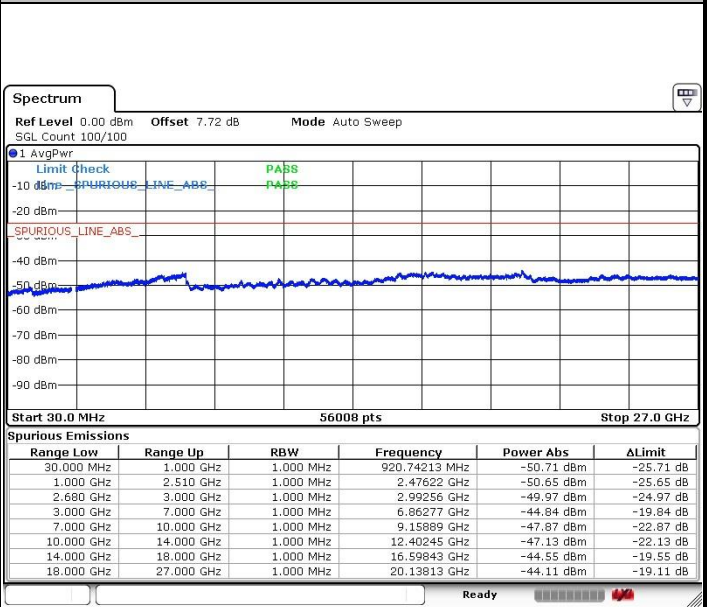
Date: 22 MAY 2018 22:48:53

Highest Channel / QPSK



Date: 22 MAY 2018 22:52:51

Highest Channel / 16QAM



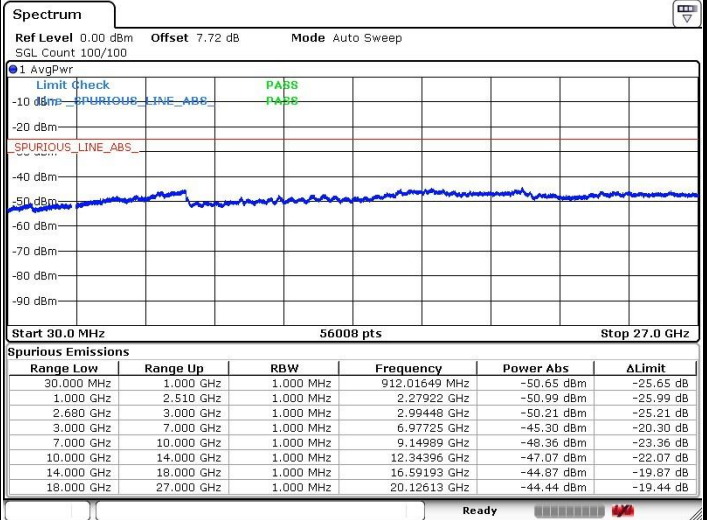
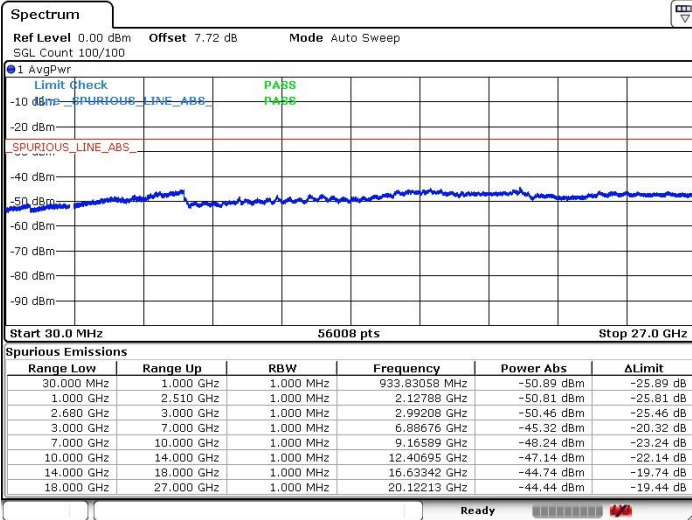
Date: 22 MAY 2018 22:51:59



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

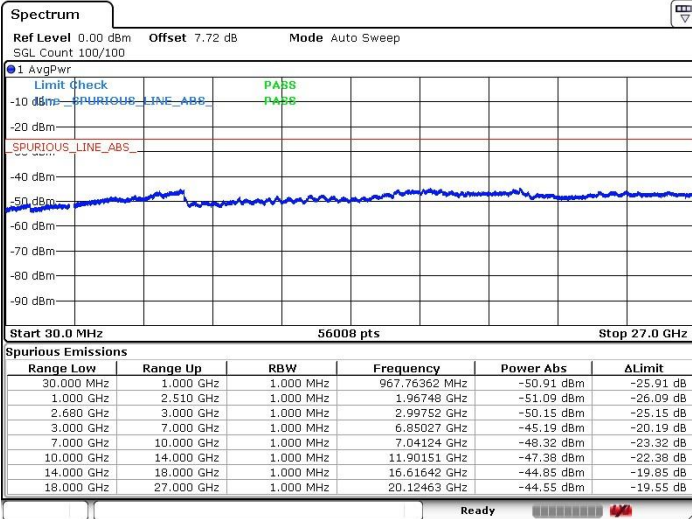
Middle Channel / 64QAM



Date: 21.MAY.2018 16:59:42

Date: 21.MAY.2018 17:04:18

Highest Channel / 64QAM



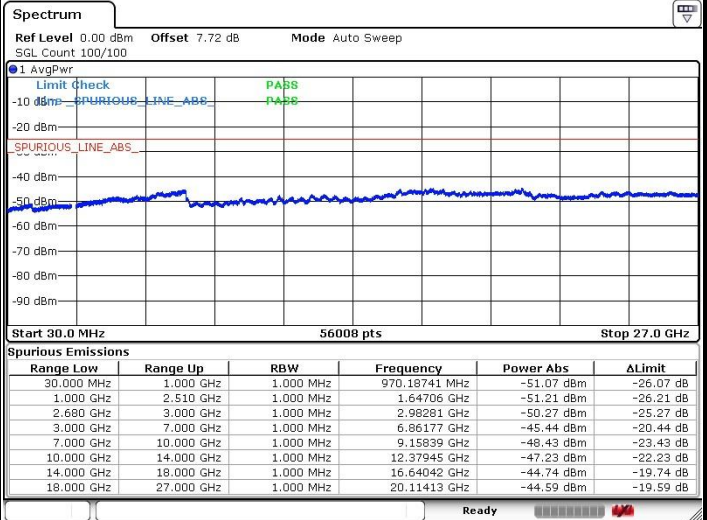
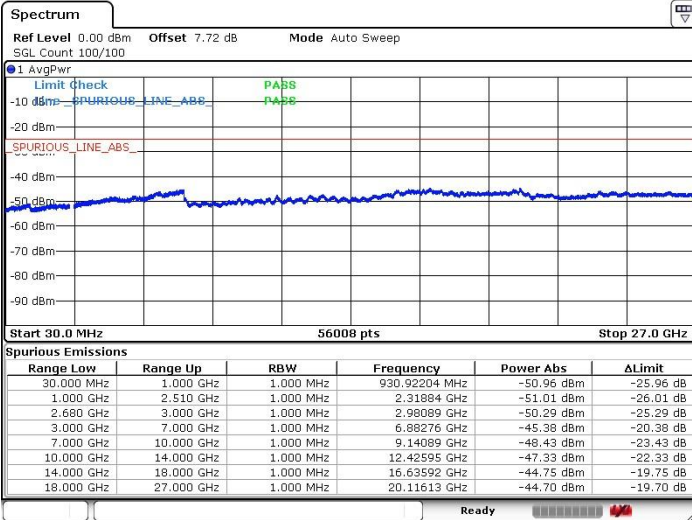
Date: 21.MAY.2018 17:05:31



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

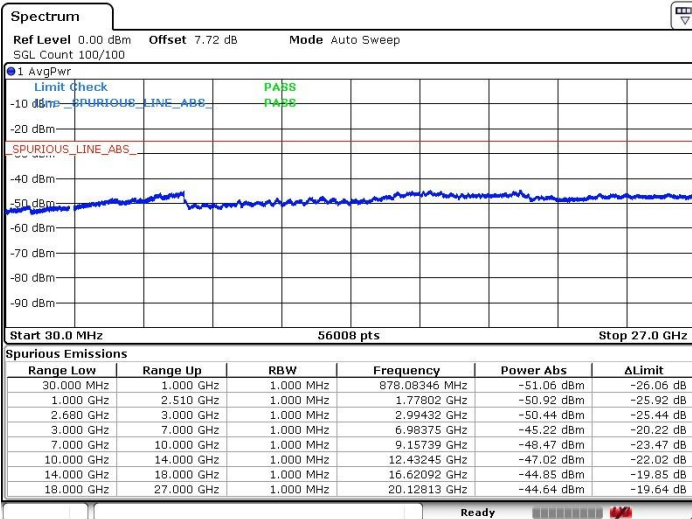
Middle Channel / 64QAM



Date: 21.MAY.2018 17:19:46

Date: 21.MAY.2018 17:20:34

Highest Channel / 64QAM



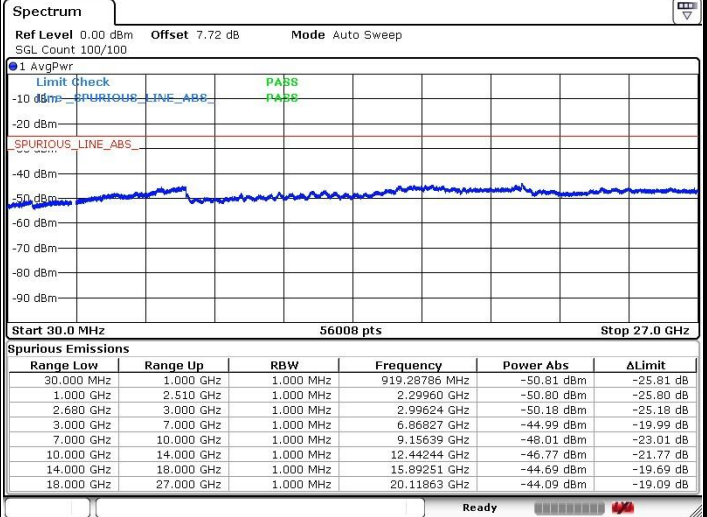
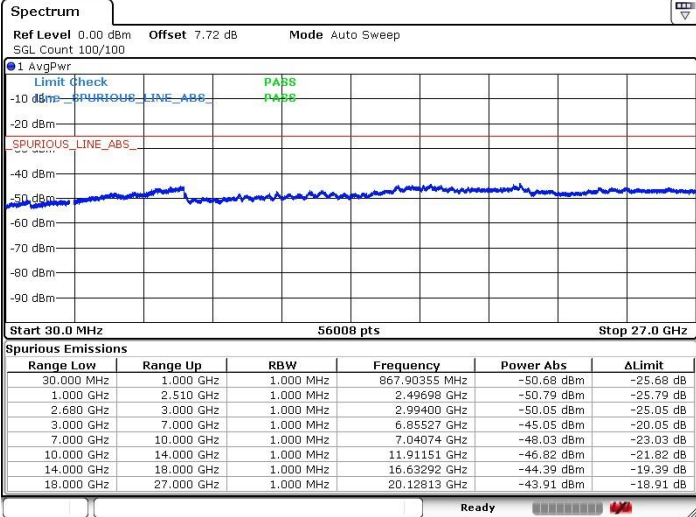
Date: 21.MAY.2018 17:28:07



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

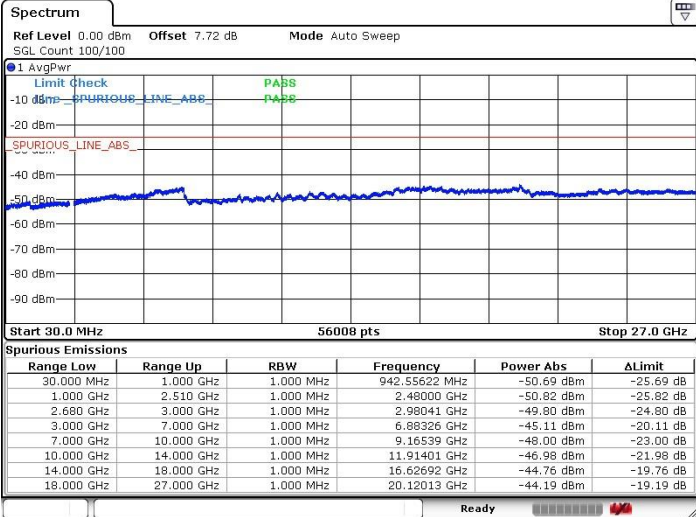
Middle Channel / 64QAM



Date: 22.MAY.2018 22:33:49

Date: 22.MAY.2018 22:34:50

Highest Channel / 64QAM



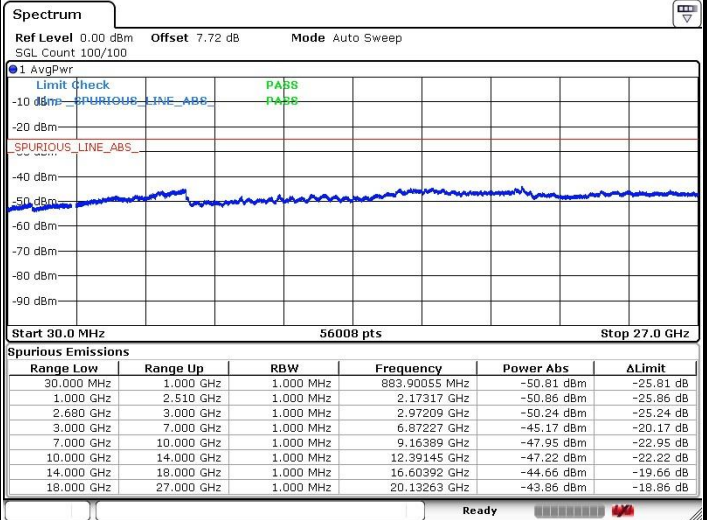
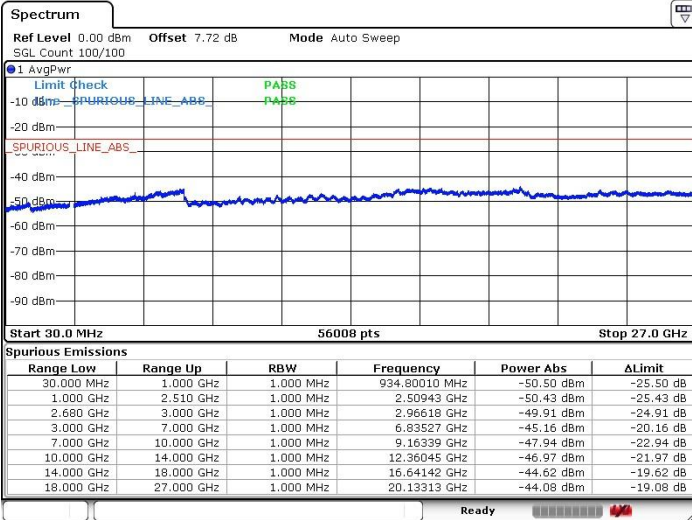
Date: 22.MAY.2018 22:42:15



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

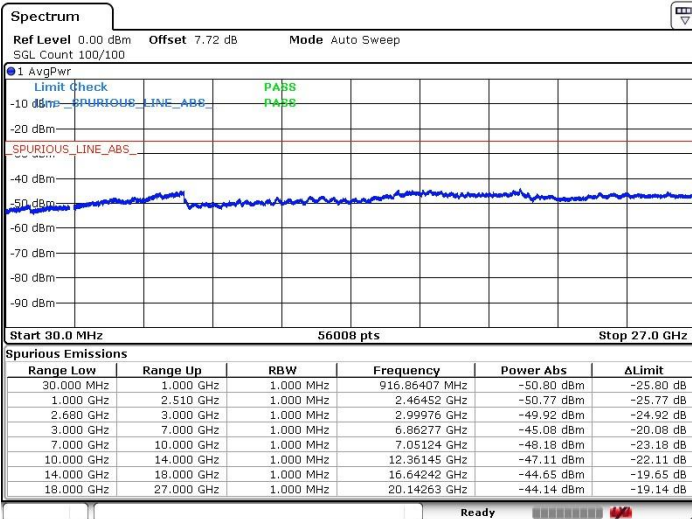
Middle Channel / 64QAM



Date: 22.MAY.2018 22:44:57

Date: 22.MAY.2018 22:49:46

Highest Channel / 64QAM



Date: 22.MAY.2018 22:50:49



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0044	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0050	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0041	

Note: Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.





Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0015	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0015	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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 5 / 10MHz / QPSK								
Channel	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	1664	-59.16	-13	-46.16	-61.79	1.22	6.00	H
	2496	-58.64	-13	-45.64	-60.98	1.53	6.02	H
	3327	-59.46	-13	-46.46	-63.65	1.76	8.10	H
	1664	-58.82	-13	-45.82	-61.45	1.22	6.00	V
	2496	-59.24	-13	-46.24	-61.58	1.53	6.02	V
	3327	-59.34	-13	-46.34	-63.53	1.76	8.10	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	-64.00	-25	-39.00	-71.36	1.76	9.12	H
	7578	-48.47	-25	-23.47	-58.44	2.16	12.13	H
	10107	-60.50	-25	-35.50	-70.38	2.22	12.10	H
	5052	-63.81	-25	-38.81	-71.17	1.76	9.12	V
	7578	-53.69	-25	-28.69	-63.66	2.16	12.13	V
	10107	-61.25	-25	-36.25	-71.13	2.22	12.10	V

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

LTE Band 41 / 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	5169	-62.24	-25	-37.24	-69.22	2.40	9.38	H
	7752	-53.52	-25	-28.52	-63.07	2.97	12.51	H
	10332	-60.68	-25	-35.68	-69.29	3.49	12.10	H
	5169	-61.93	-25	-36.93	-68.91	2.40	9.38	V
	7752	-48.77	-25	-23.77	-58.32	2.97	12.51	V
	10332	-59.58	-25	-34.58	-68.19	3.49	12.10	V

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