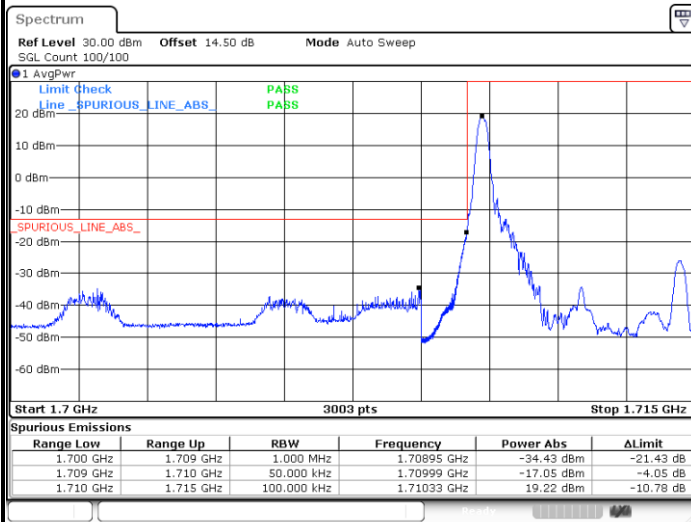


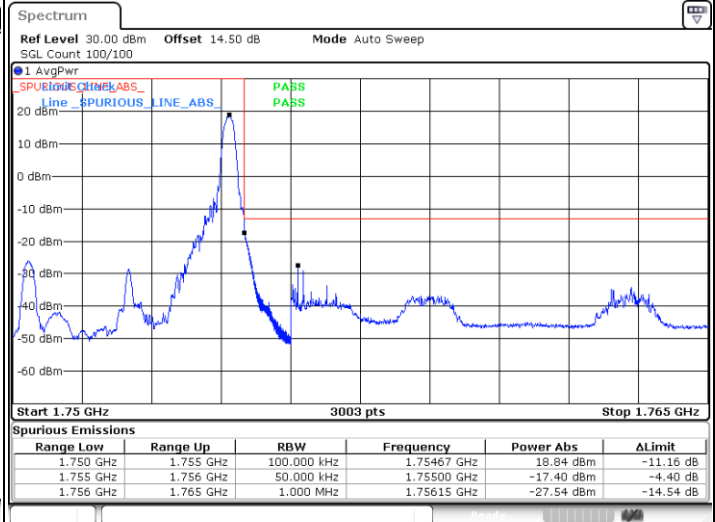


## LTE Band 4 / 5MHz / 16QAM

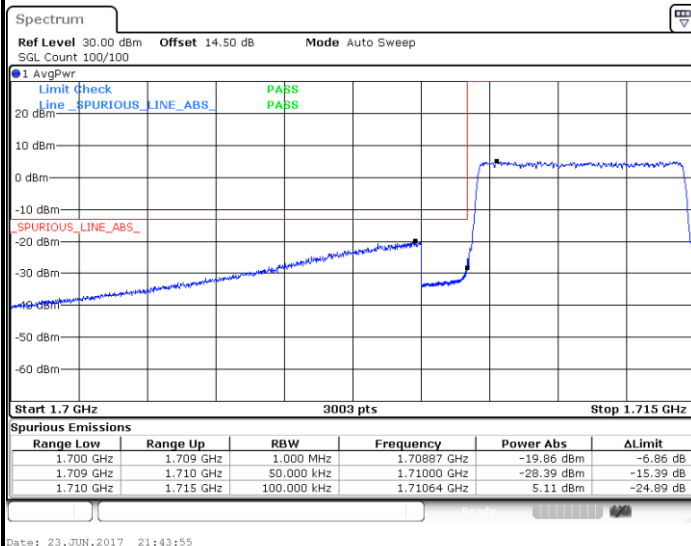
## Lowest Band Edge / 1RB



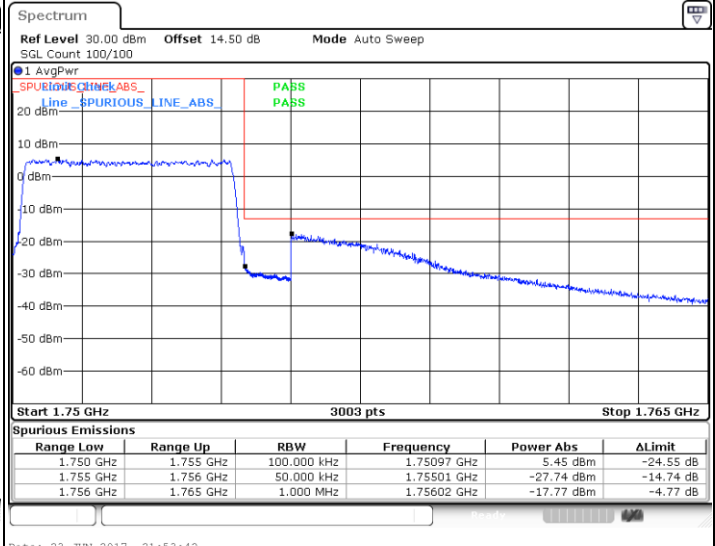
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



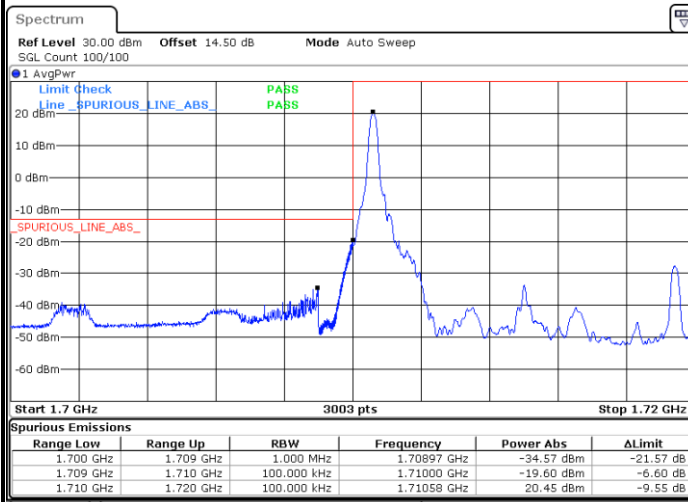
## Highest Band Edge / Full RB



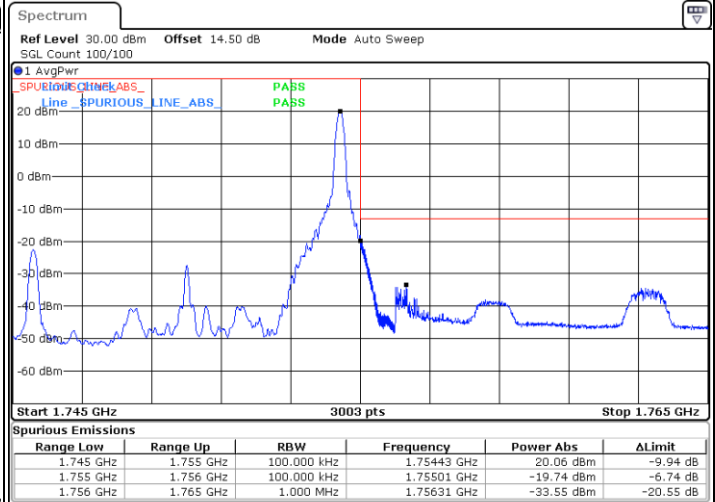


## LTE Band 4 / 10MHz / QPSK

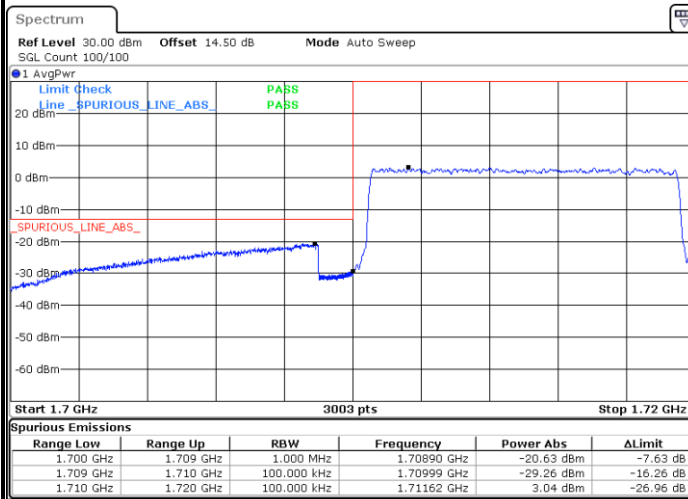
## Lowest Band Edge / 1 RB



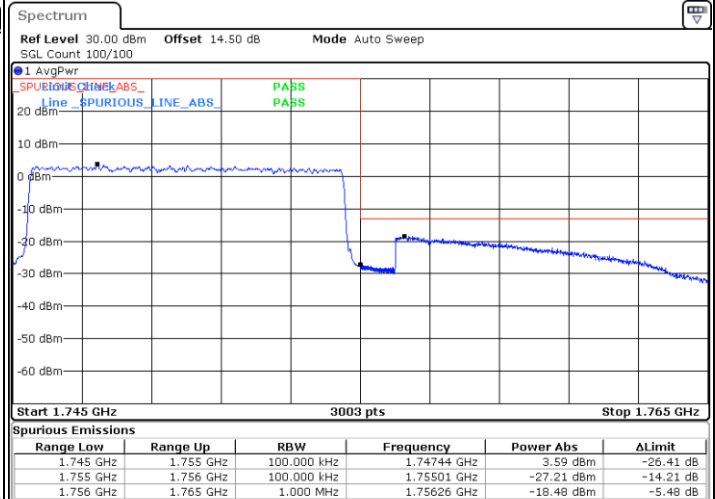
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



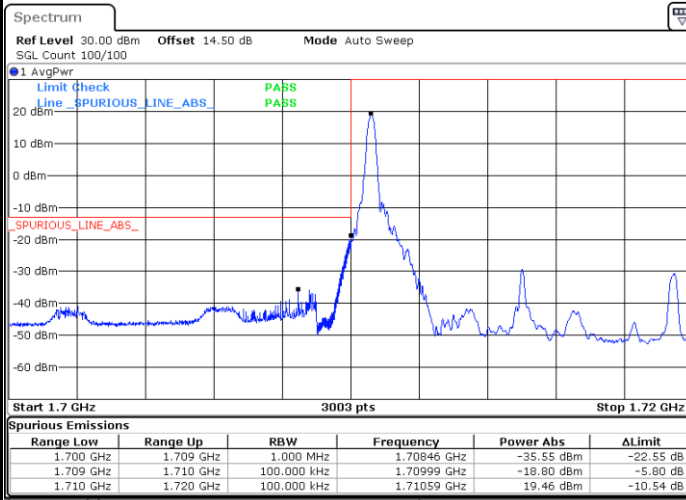
## Highest Band Edge / Full RB



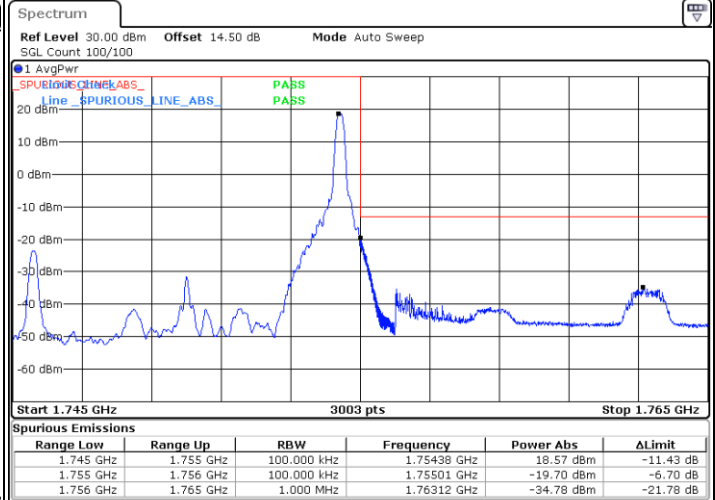


## LTE Band 4 / 10MHz / 16QAM

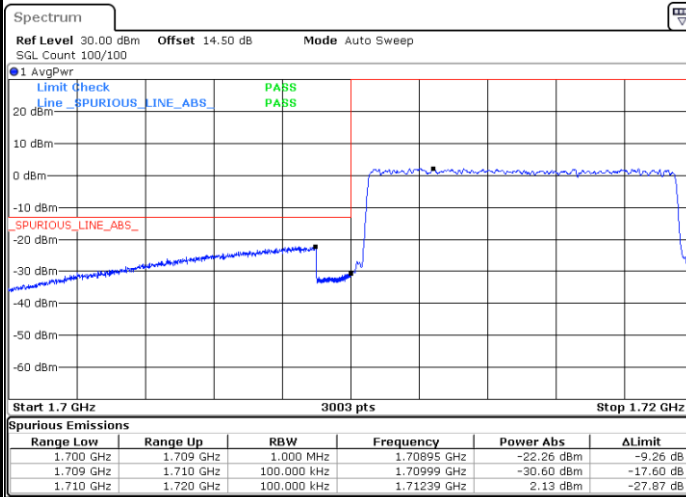
## Lowest Band Edge / 1 RB



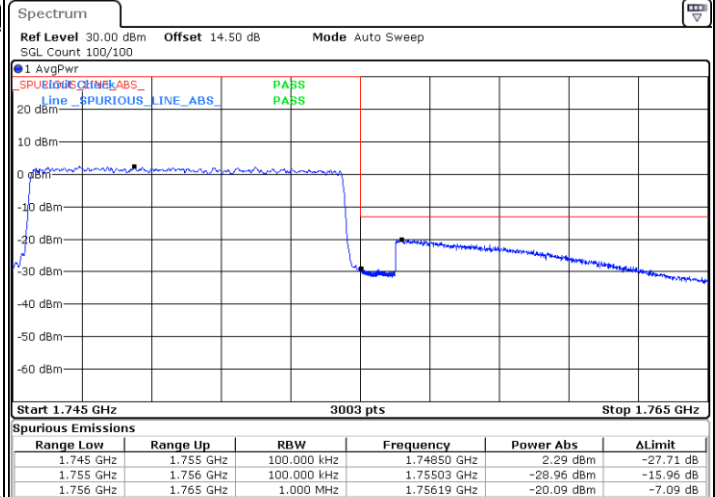
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



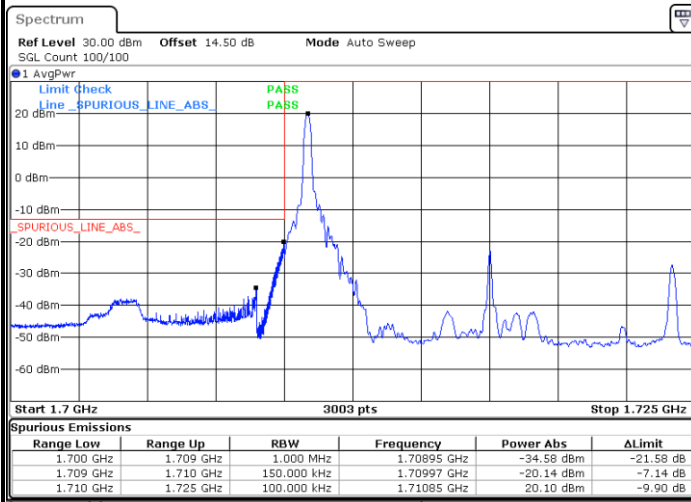
## Highest Band Edge / Full RB



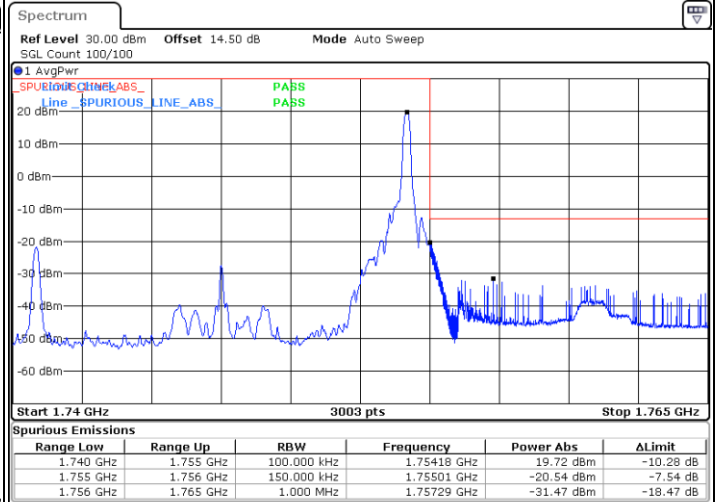


## LTE Band 4 / 15MHz / QPSK

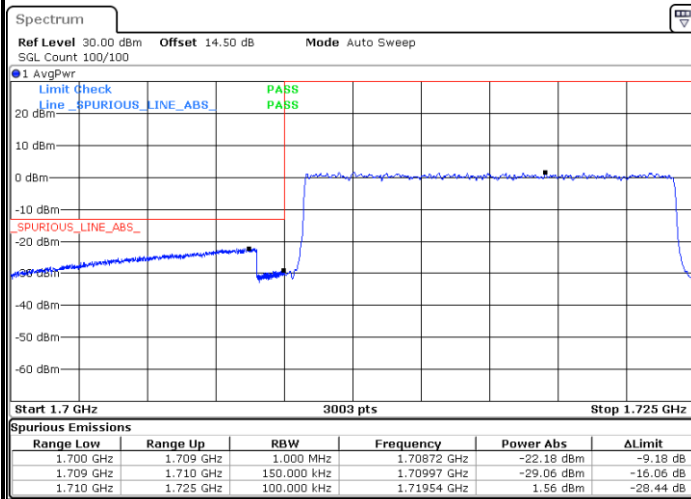
## Lowest Band Edge / 1 RB



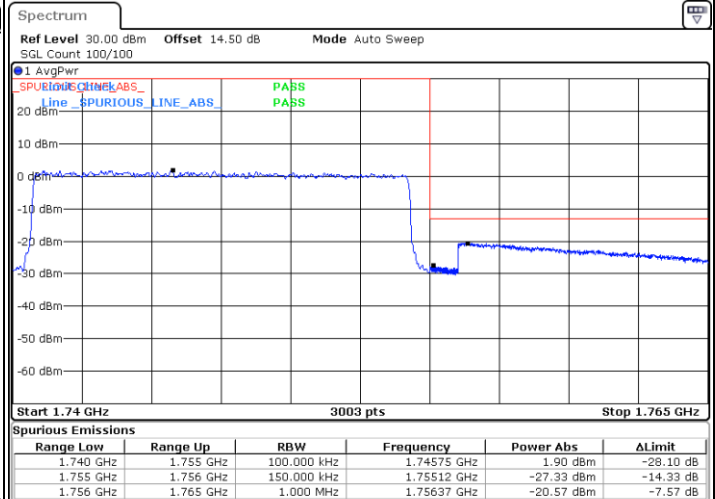
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



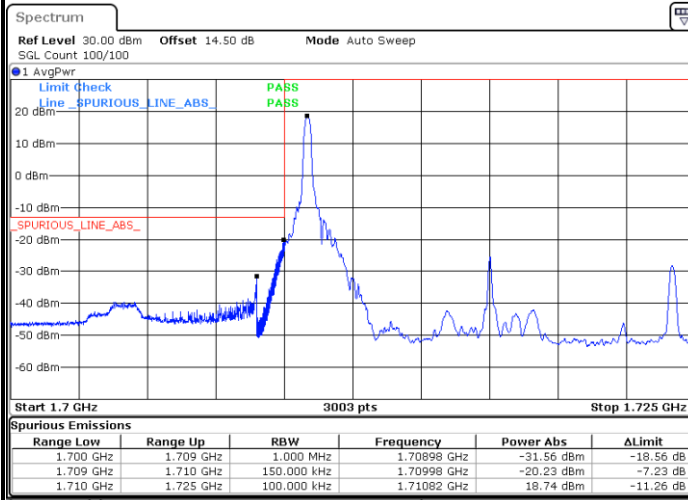
## Highest Band Edge / Full RB



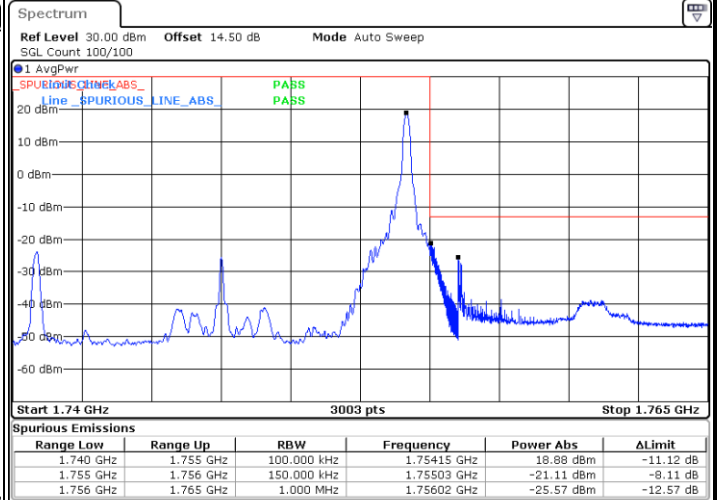


## LTE Band 4 / 15MHz / 16QAM

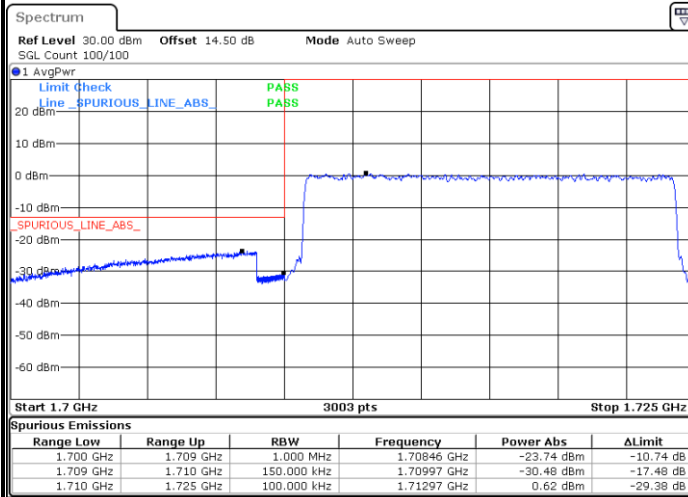
## Lowest Band Edge / 1 RB



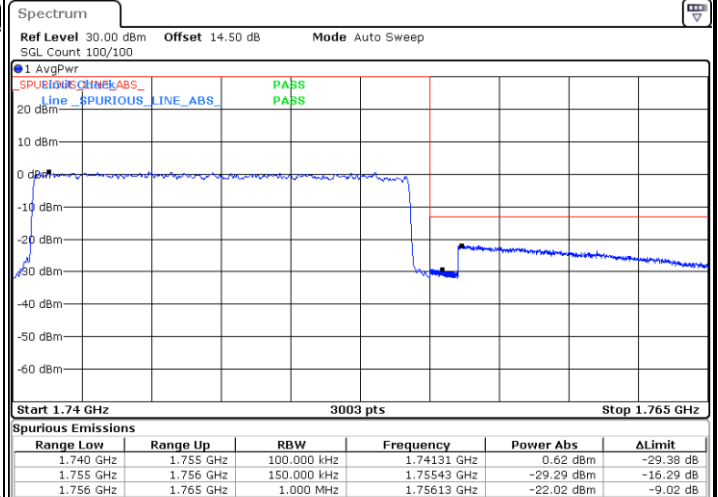
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



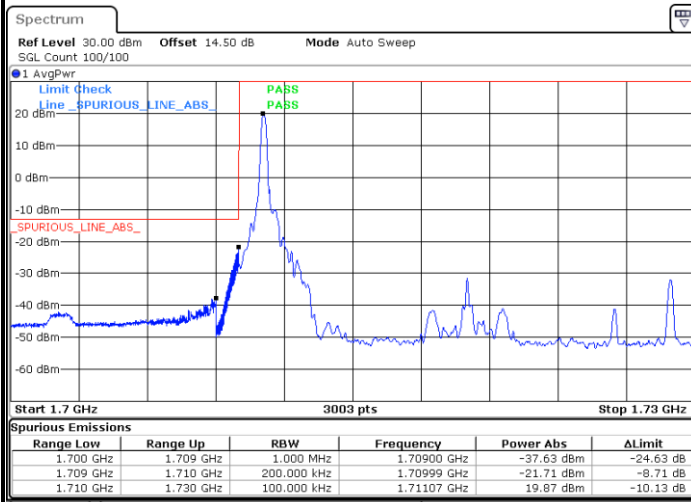
## Highest Band Edge / Full RB



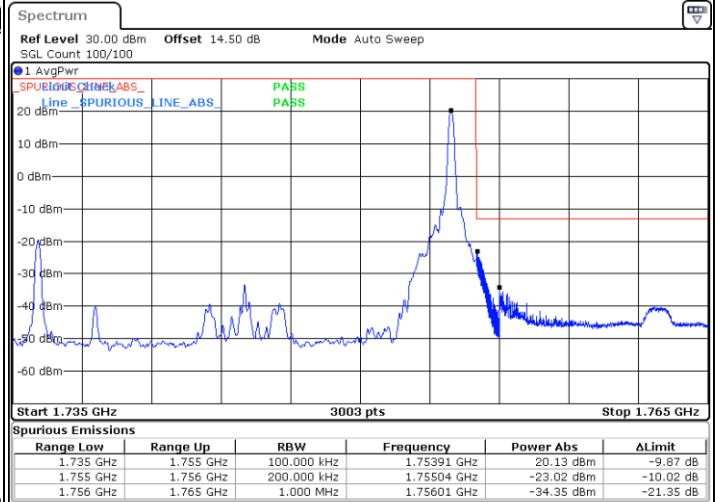


## LTE Band 4 / 20MHz / QPSK

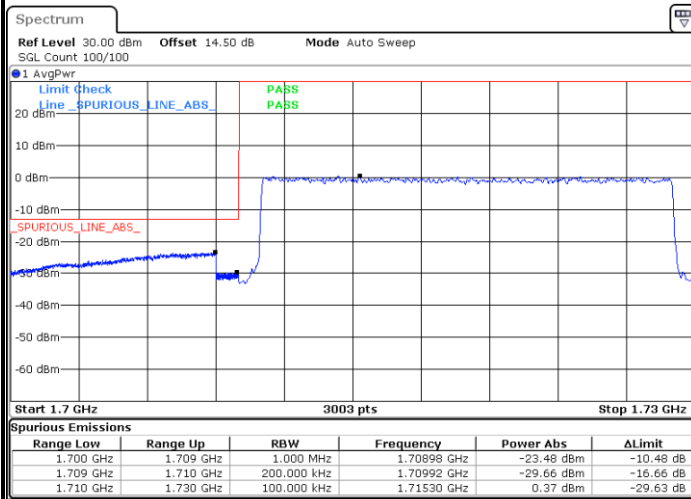
## Lowest Band Edge / 1 RB



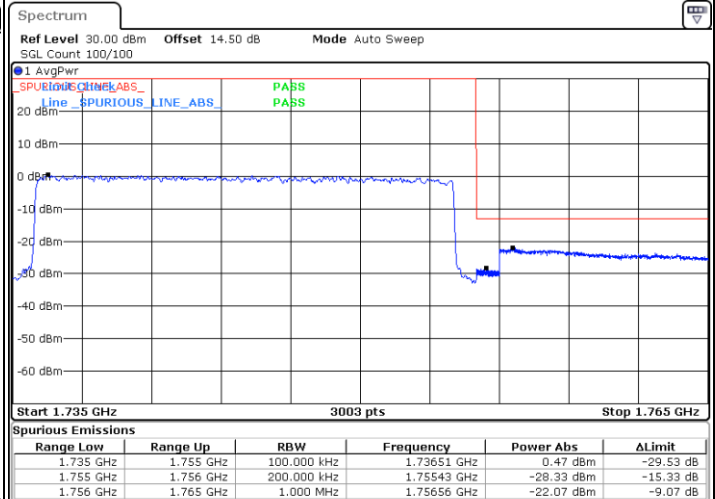
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



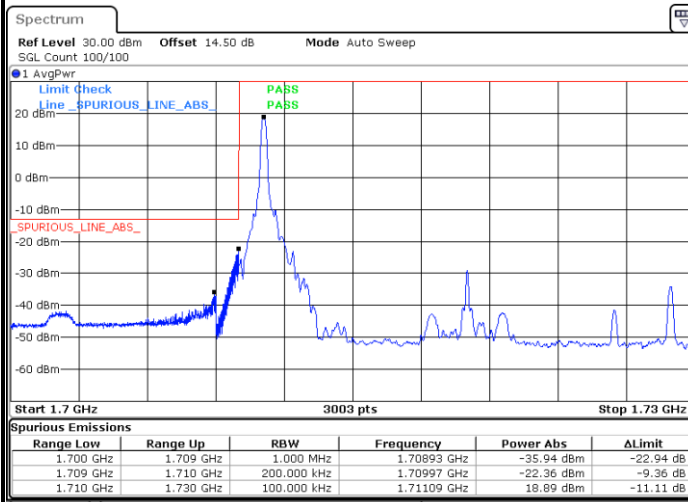
## Highest Band Edge / Full RB



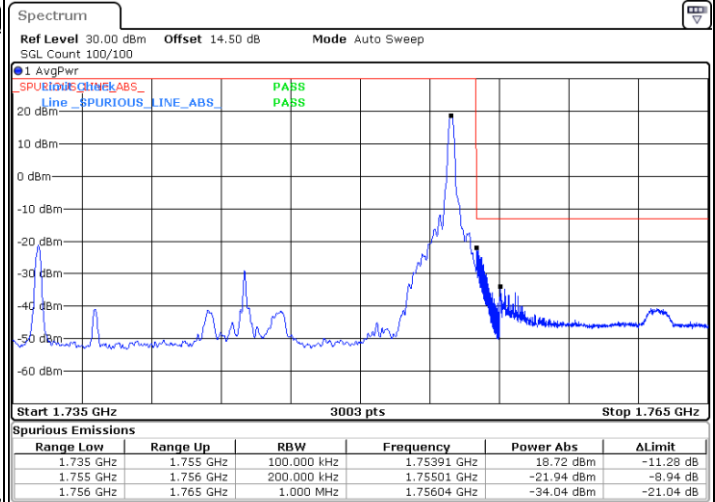


## LTE Band 4 / 20MHz / 16QAM

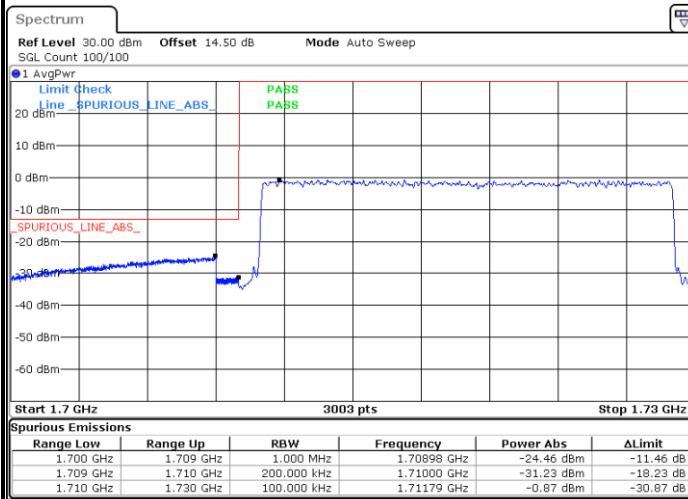
## Lowest Band Edge / 1 RB



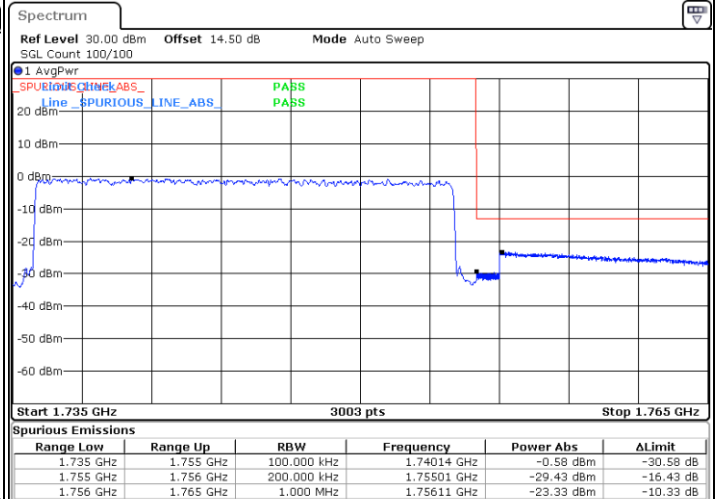
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

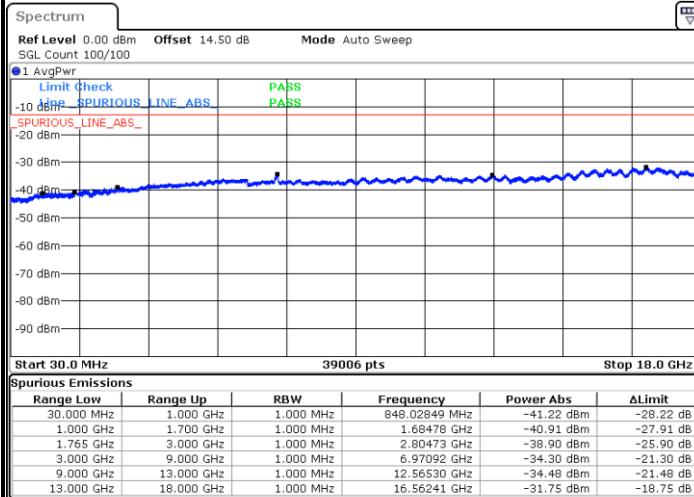




# Conducted Spurious Emission

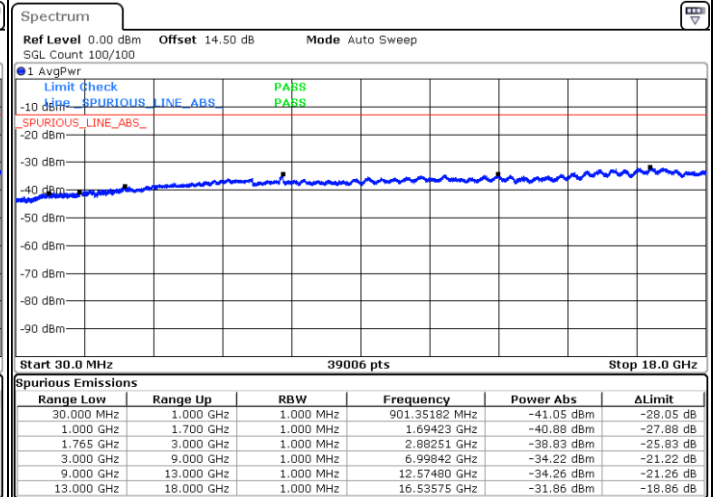
## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK



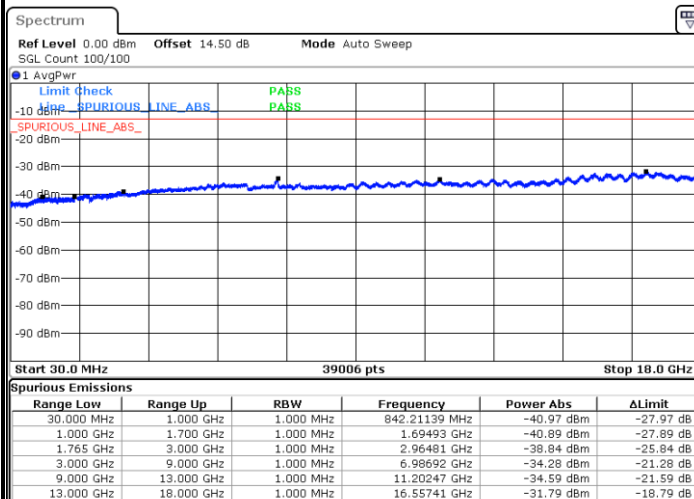
Date: 23.JUN.2017 21:10:52

### Lowest Channel / 16QAM



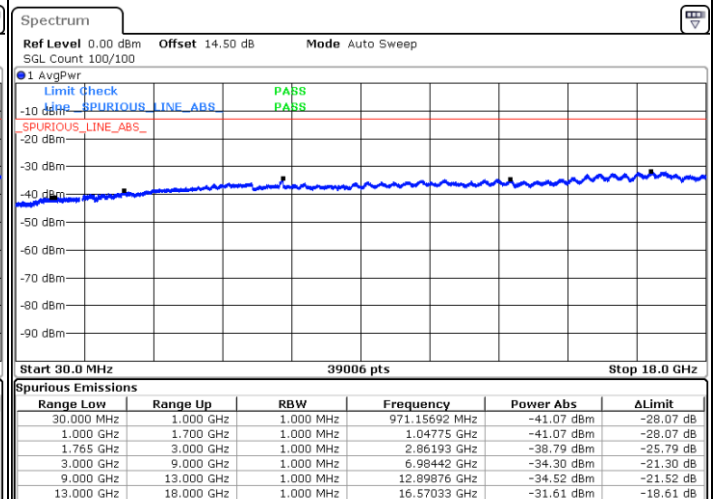
Date: 23.JUN.2017 21:11:48

### Middle Channel / QPSK



Date: 23.JUN.2017 21:13:25

### Middle Channel / 16QAM



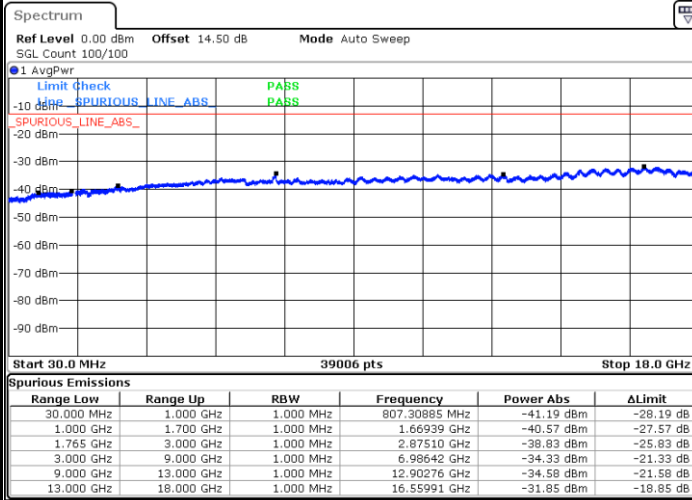
Date: 23.JUN.2017 21:14:21





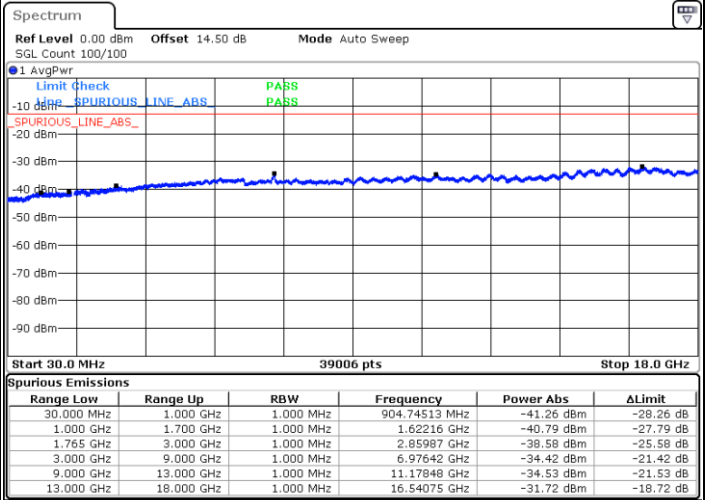
## LTE Band 4 / 1.4MHz

## Highest Channel / QPSK



Date: 23.JUN.2017 21:20:38

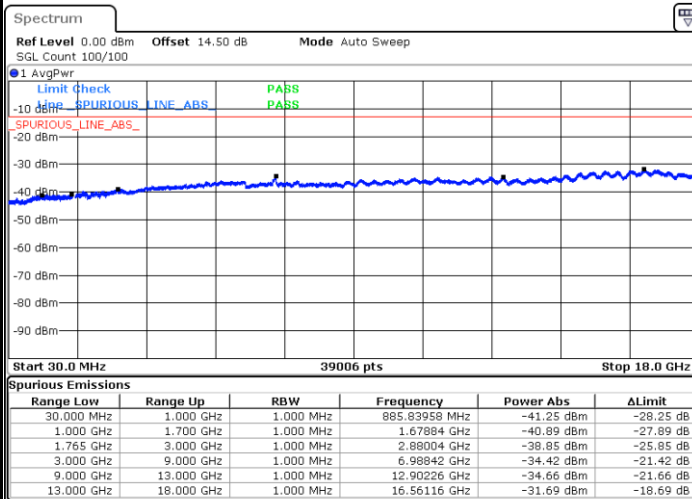
## Highest Channel / 16QAM



Date: 23.JUN.2017 21:21:34

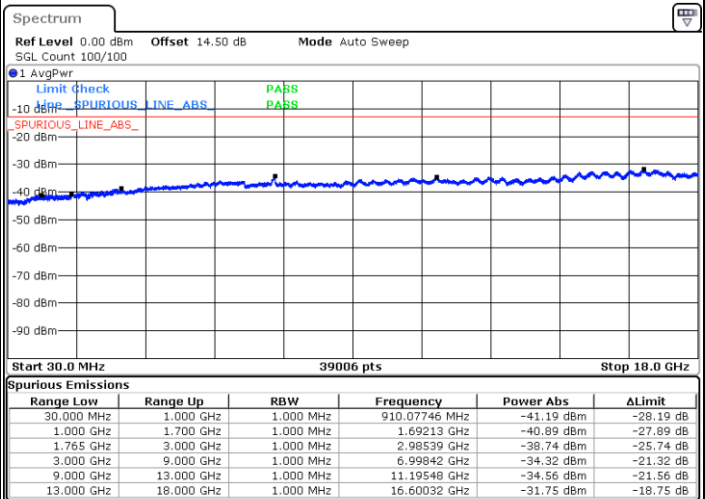
## LTE Band 4 / 3MHz

## Lowest Channel / QPSK



Date: 23.JUN.2017 21:27:51

## Lowest Channel / 16QAM

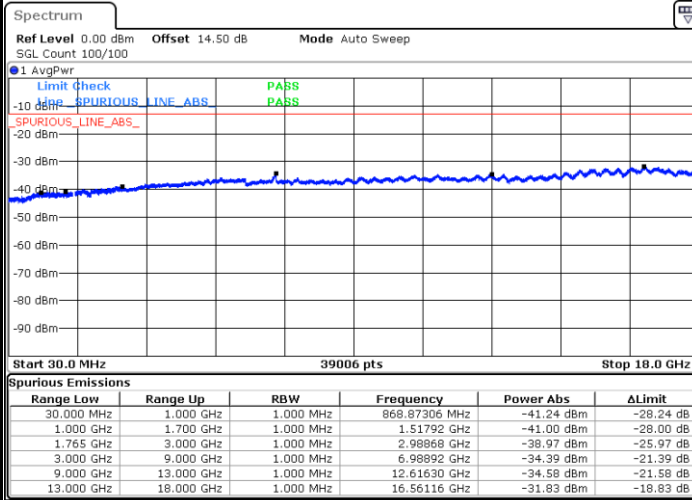


Date: 23.JUN.2017 21:28:47



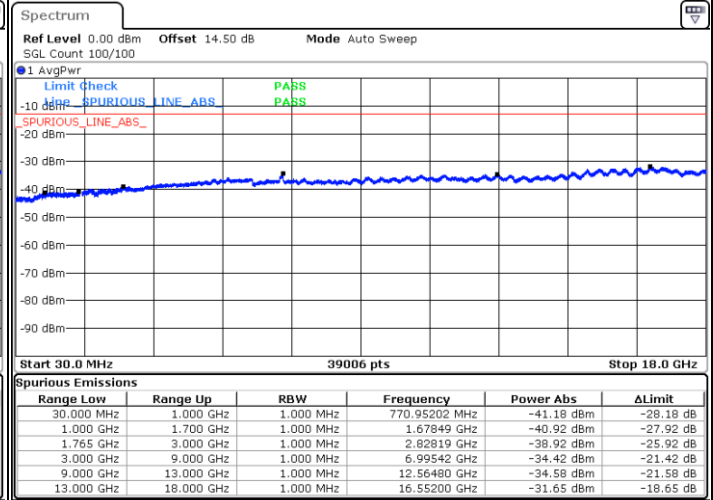
## LTE Band 4 / 3MHz

## Middle Channel / QPSK



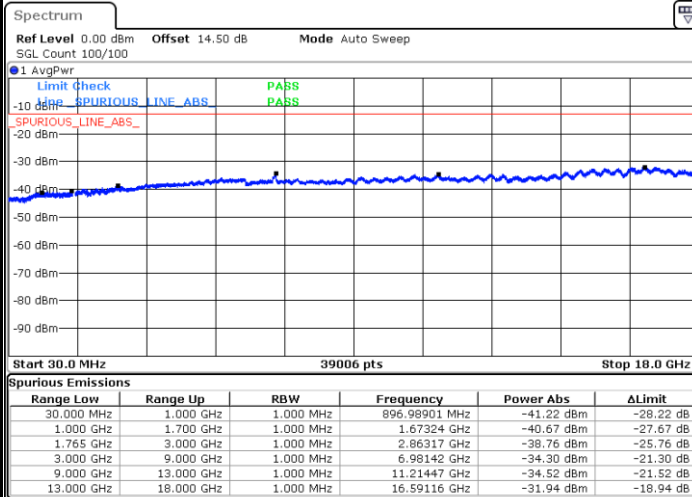
Date: 23.JUN.2017 21:30:25

## Middle Channel / 16QAM



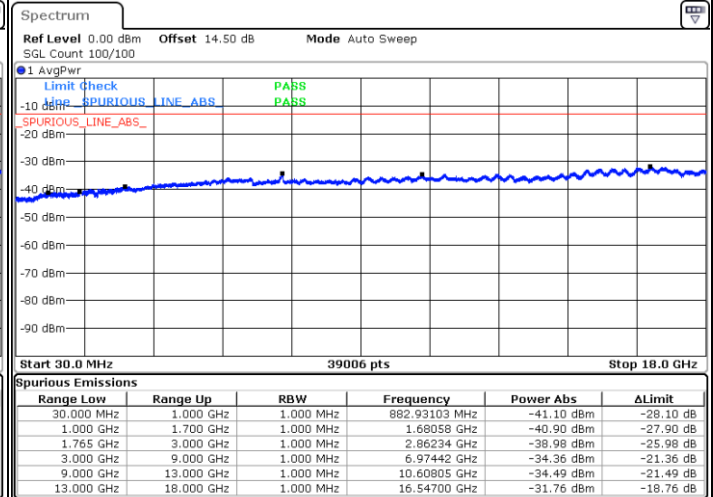
Date: 23.JUN.2017 21:31:21

## Highest Channel / QPSK



Date: 23.JUN.2017 21:37:38

## Highest Channel / 16QAM

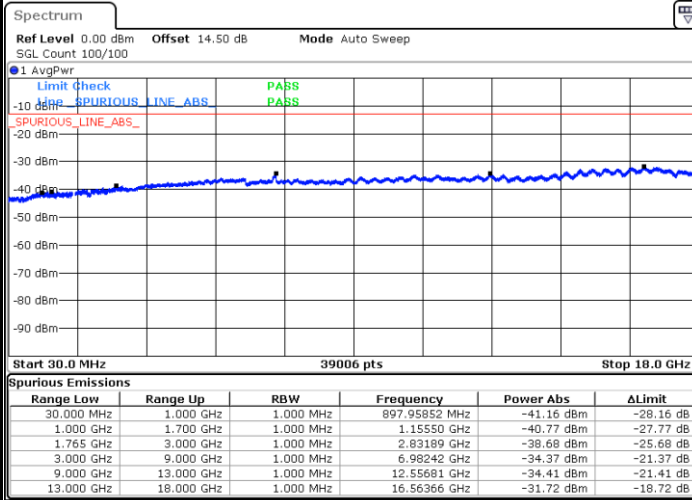


Date: 23.JUN.2017 21:38:35



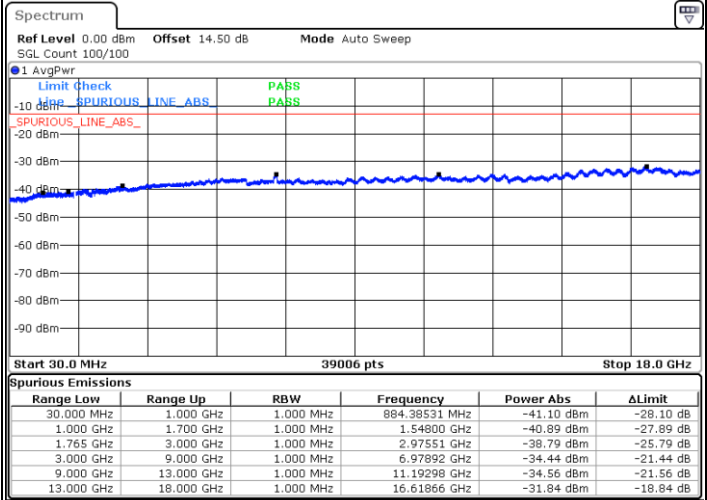
## LTE Band 4 / 5MHz

## Lowest Channel / QPSK



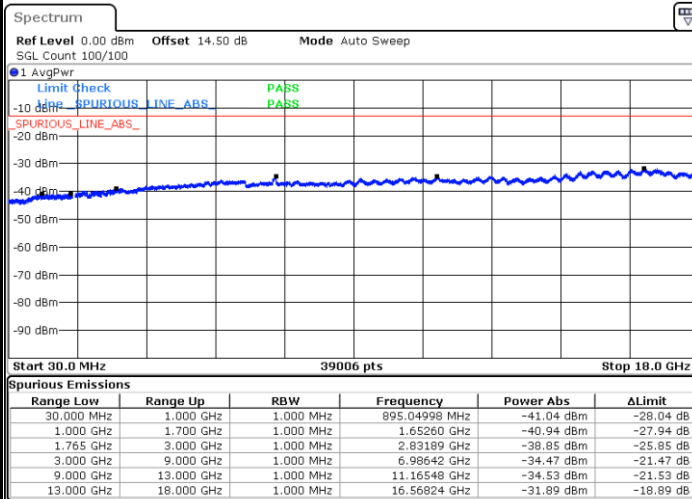
Date: 23.JUN.2017 21:44:51

## Lowest Channel / 16QAM



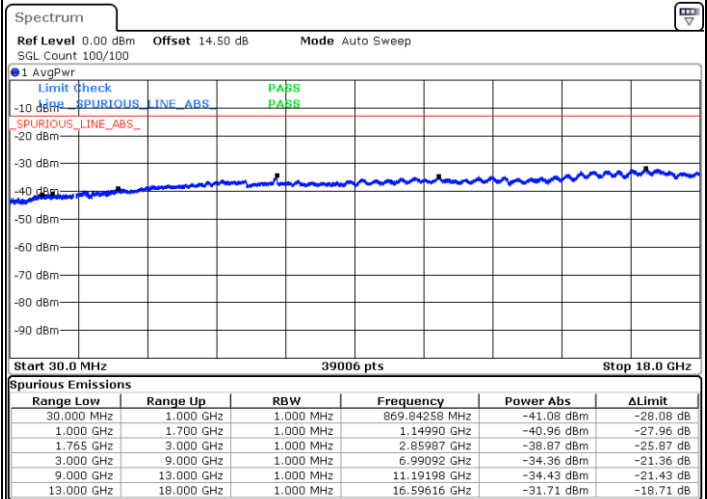
Date: 23.JUN.2017 21:45:47

## Middle Channel / QPSK



Date: 23.JUN.2017 21:47:25

## Middle Channel / 16QAM

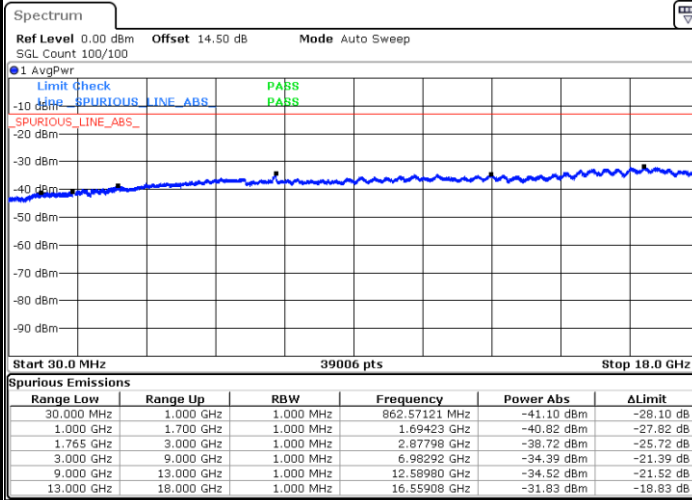


Date: 23.JUN.2017 21:48:21



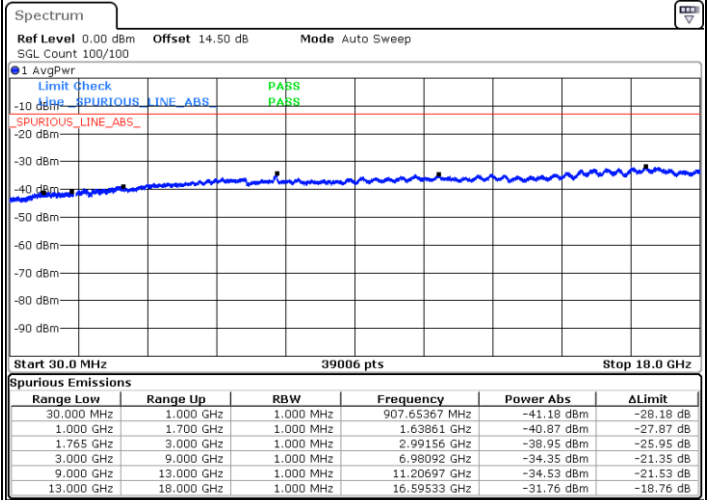
## LTE Band 4 / 5MHz

## Highest Channel / QPSK



Date: 23.JUN.2017 21:54:38

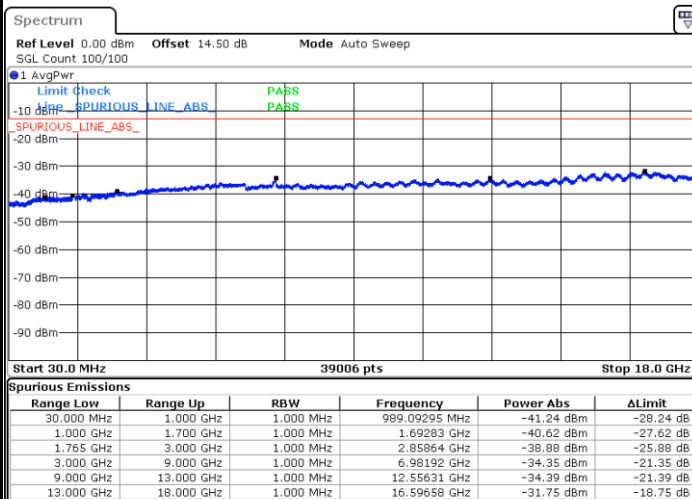
## Highest Channel / 16QAM



Date: 23.JUN.2017 21:55:35

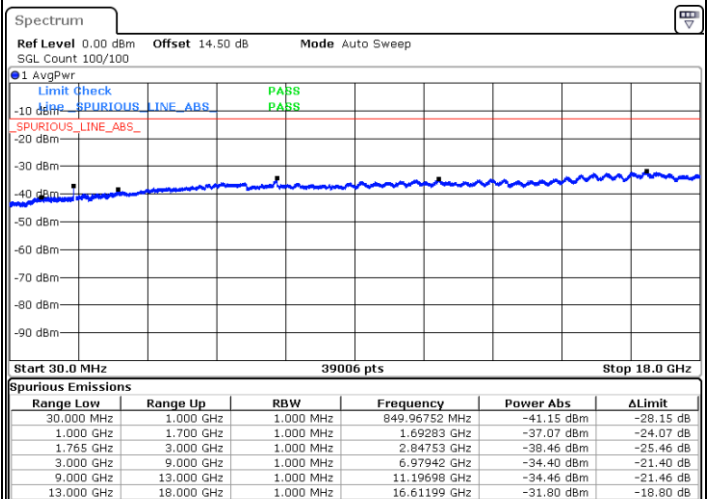
## LTE Band 4 / 10MHz

## Lowest Channel / QPSK



Date: 23.JUN.2017 22:01:51

## Lowest Channel / 16QAM

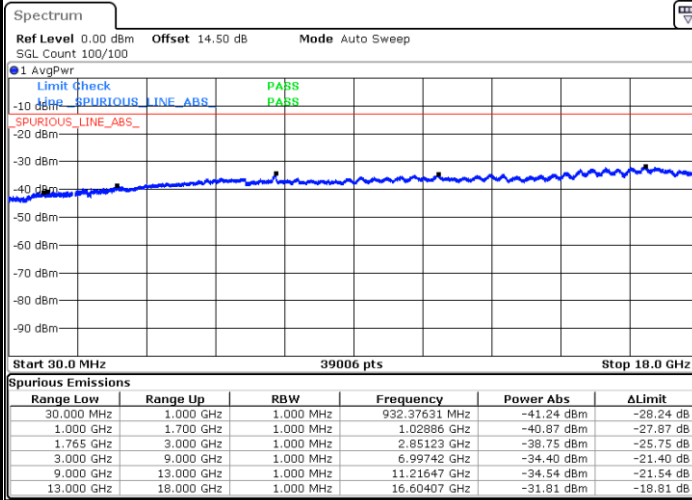


Date: 23.JUN.2017 22:02:47



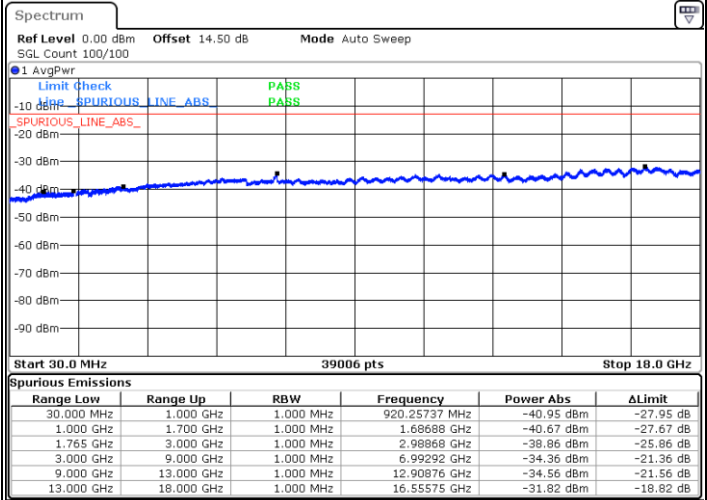
## LTE Band 4 / 10MHz

## Middle Channel / QPSK



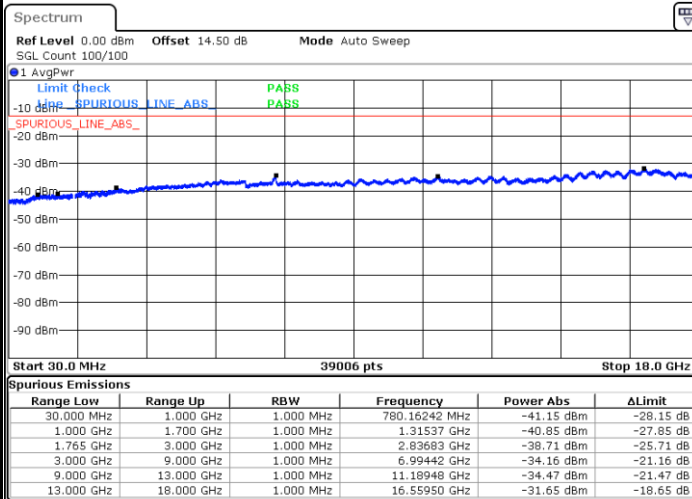
Date: 23.JUN.2017 22:04:26

## Middle Channel / 16QAM



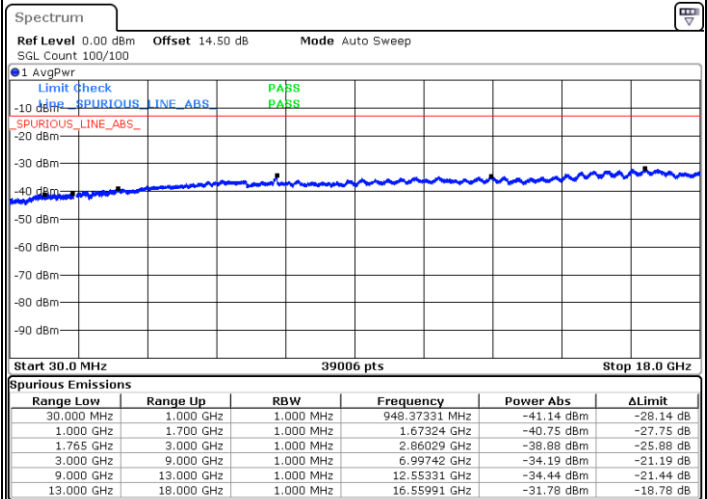
Date: 23.JUN.2017 22:05:22

## Highest Channel / QPSK



Date: 23.JUN.2017 22:11:39

## Highest Channel / 16QAM

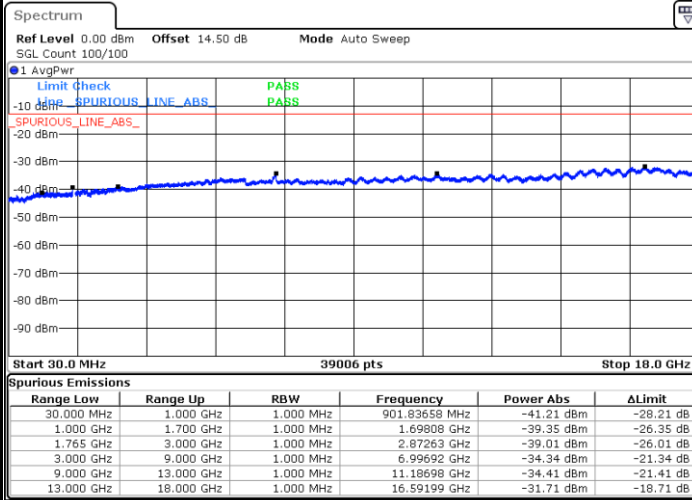


Date: 23.JUN.2017 22:12:35



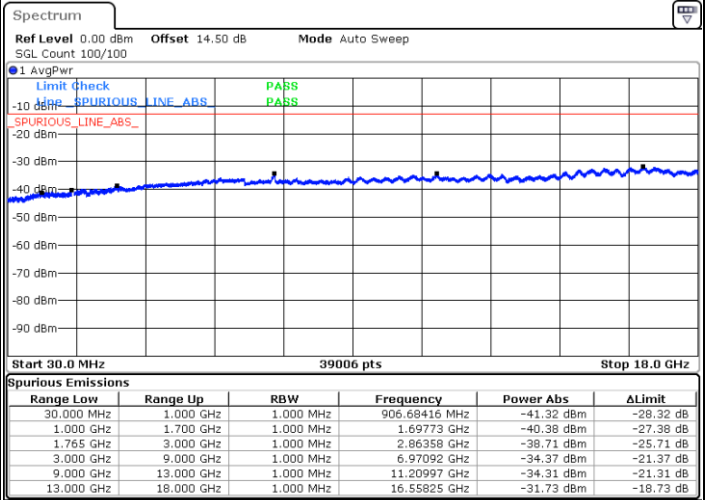
## LTE Band 4 / 15MHz

## Lowest Channel / QPSK



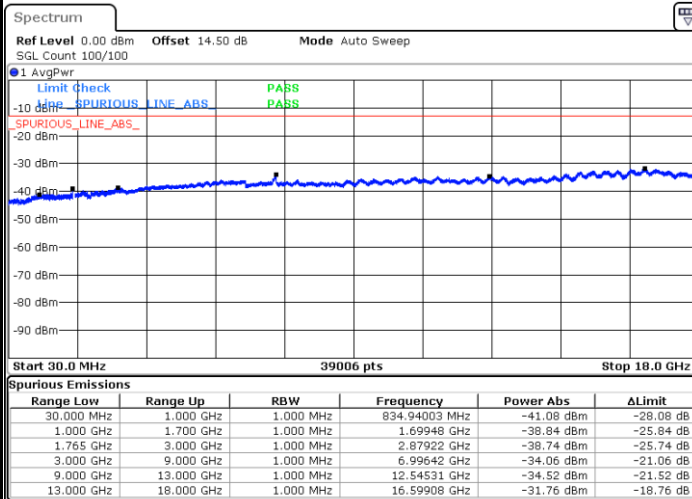
Date: 23.JUN.2017 22:18:52

## Lowest Channel / 16QAM



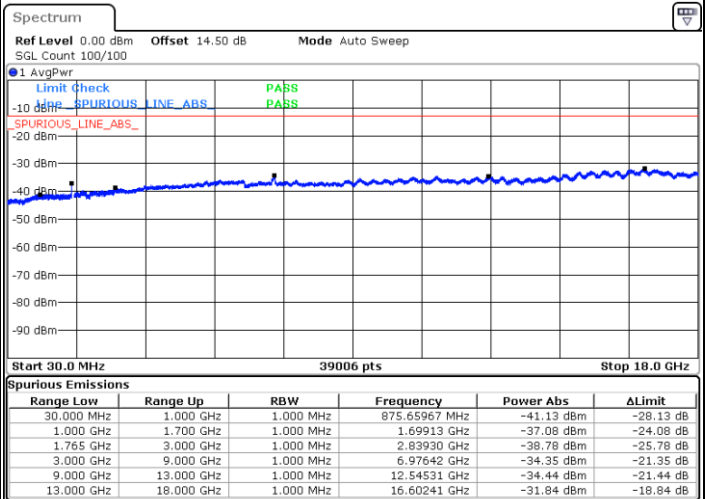
Date: 23.JUN.2017 22:19:48

## Middle Channel / QPSK



Date: 23.JUN.2017 22:21:26

## Middle Channel / 16QAM

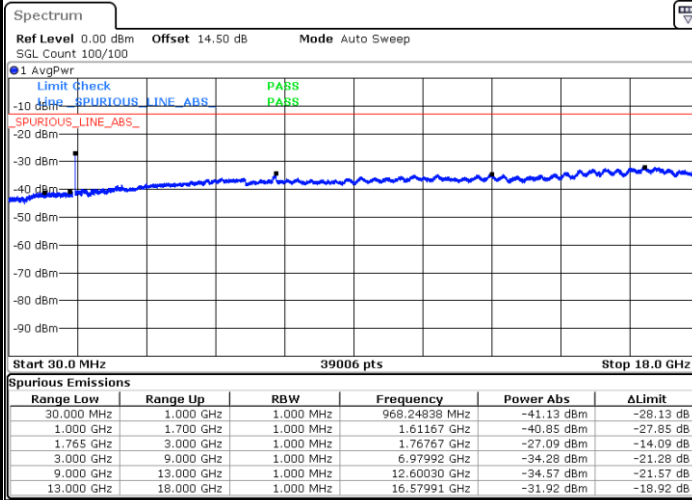


Date: 23.JUN.2017 22:22:23



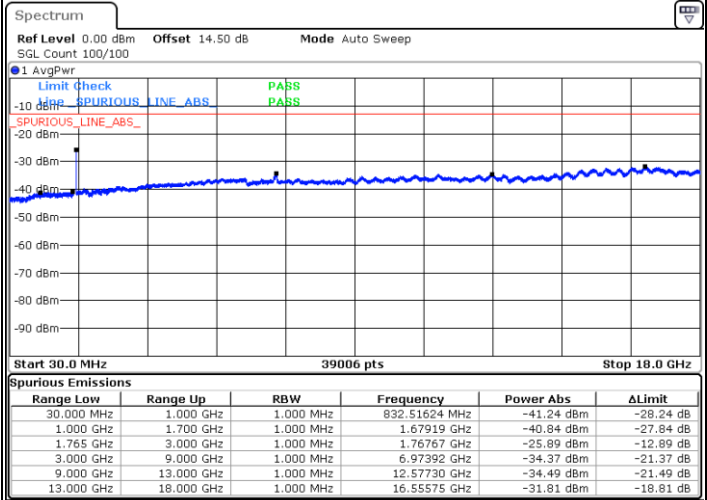
## LTE Band 4 / 15MHz

## Highest Channel / QPSK



Date: 23.JUN.2017 22:28:39

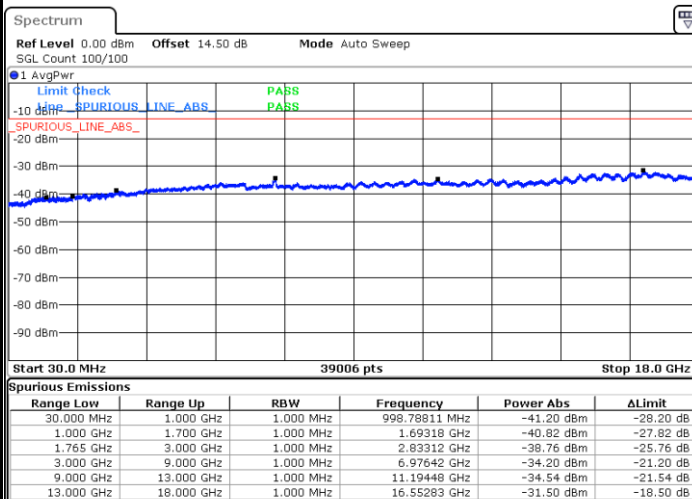
## Highest Channel / 16QAM



Date: 23.JUN.2017 22:29:35

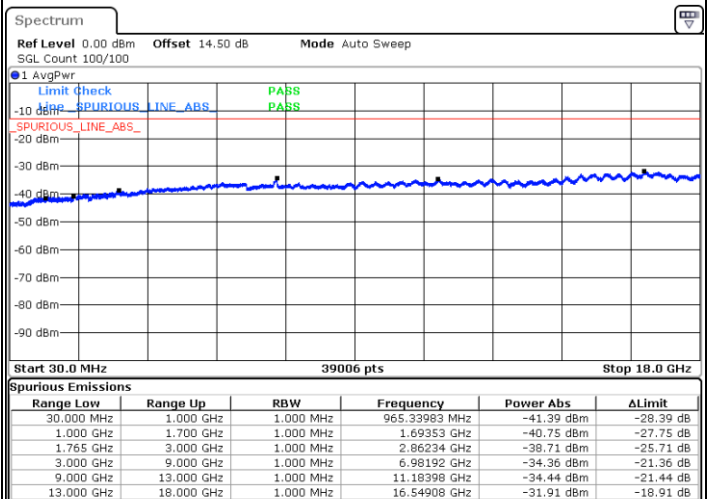
## LTE Band 4 / 20MHz

## Lowest Channel / QPSK



Date: 23.JUN.2017 22:35:52

## Lowest Channel / 16QAM

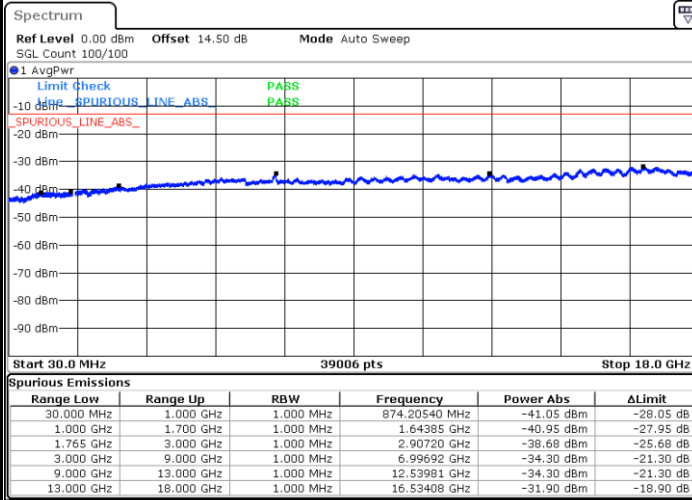


Date: 23.JUN.2017 22:36:48



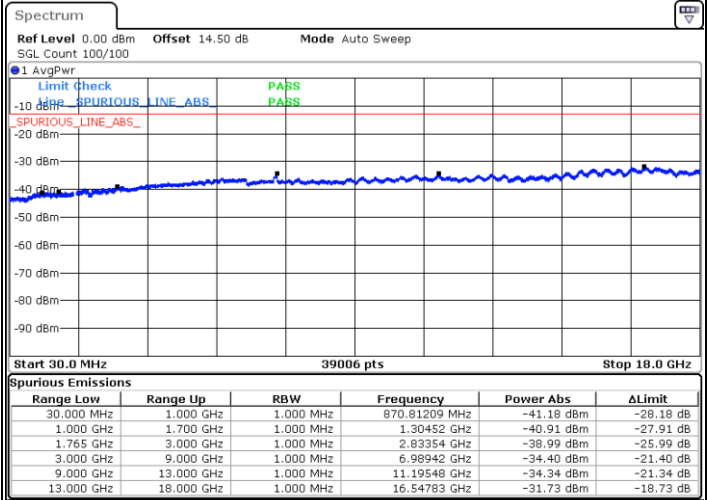
## LTE Band 4 / 20MHz

## Middle Channel / QPSK



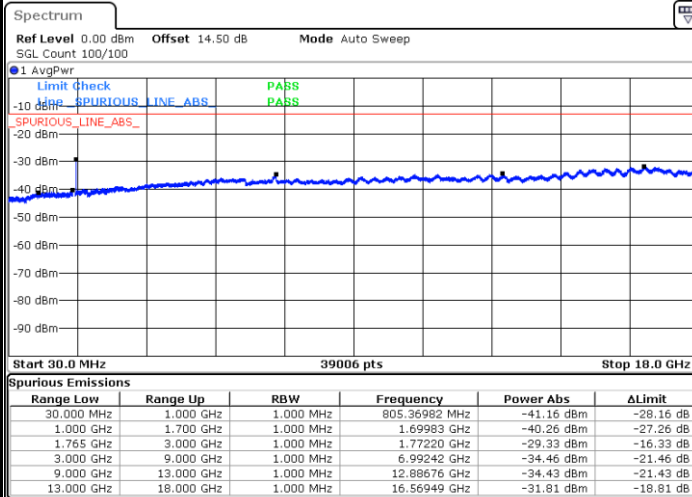
Date: 23.JUN.2017 22:38:26

## Middle Channel / 16QAM



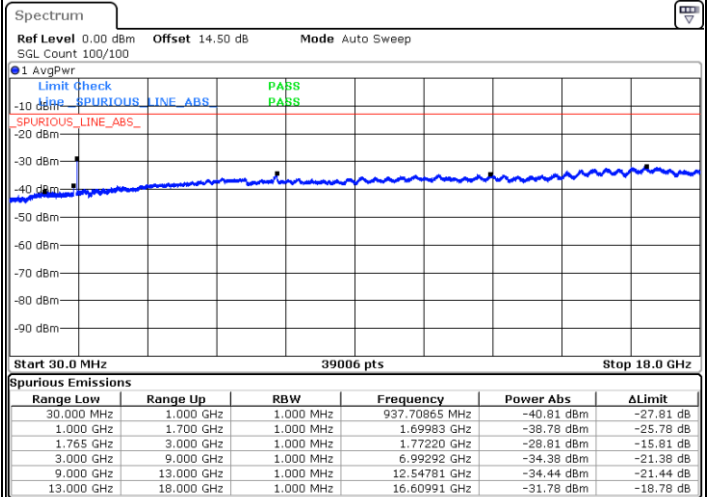
Date: 23.JUN.2017 22:39:22

## Highest Channel / QPSK



Date: 23.JUN.2017 22:45:38

## Highest Channel / 16QAM



Date: 23.JUN.2017 22:46:34



**Frequency Stability**

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0039	PASS
40	Normal Voltage	0.0050	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0111	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0062	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 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 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3463.74	-59.52	-13	-46.52	-73.34	-65.94	6.18	12.60	H
	5195.61	-56.99	-13	-43.99	-76.32	-61.95	7.74	12.70	H
	6927.48	-57.66	-13	-44.66	-79.87	-60.36	9	11.70	H
	3463.74	-59.23	-13	-46.23	-73.41	-65.65	6.18	12.60	V
	5195.61	-51.79	-13	-38.79	-71.79	-56.75	7.74	12.70	V
	6927.48	-57.03	-13	-44.03	-79.77	-59.73	9	11.70	V

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

LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3462.48	-59.92	-13	-46.92	-73.74	-66.34	6.18	12.60	H
	5193.72	-57.05	-13	-44.05	-76.39	-62.01	7.74	12.70	H
	6924.96	-57.67	-13	-44.67	-79.88	-60.37	9	11.70	H
	3462.48	-59.02	-13	-46.02	-73.2	-65.44	6.18	12.60	V
	5193.72	-51.37	-13	-38.37	-71.38	-56.33	7.74	12.70	V
	6924.96	-57.13	-13	-44.13	-79.87	-59.83	9	11.70	V

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

LTE Band 4 / 5MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3460.68	-59.89	-13	-46.89	-73.71	-66.31	6.18	12.60	H
	5191.02	-57.08	-13	-44.08	-76.42	-62.04	7.74	12.70	H
	6921.36	-57.76	-13	-44.76	-79.83	-60.46	9	11.70	H
	3460.68	-58.16	-13	-45.16	-72.34	-64.58	6.18	12.60	V
	5191.02	-52.24	-13	-39.24	-72.25	-57.20	7.74	12.70	V
	6921.36	-57.19	-13	-44.19	-79.81	-59.89	9	11.70	V

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



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3456.18	-59.91	-13	-46.91	-73.57	-66.33	6.18	12.60	H
	5184.27	-57.81	-13	-44.81	-77.15	-62.77	7.74	12.70	H
	6912.36	-58.02	-13	-45.02	-80.09	-60.72	9	11.70	H
	3456.18	-57.82	-13	-44.82	-71.83	-64.24	6.18	12.60	V
	5184.27	-52.94	-13	-39.94	-72.96	-57.90	7.74	12.70	V
	6912.36	-57.31	-13	-44.31	-79.93	-60.01	9	11.70	V

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

LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3451.68	-59.81	-13	-46.81	-73.47	-66.23	6.18	12.60	H
	5177.52	-56.05	-13	-43.05	-75.39	-61.01	7.74	12.70	H
	6903.36	-57.72	-13	-44.72	-79.66	-60.42	9	11.70	H
	3451.68	-56.54	-13	-43.54	-70.55	-62.96	6.18	12.60	V
	5177.52	-51.45	-13	-38.45	-71.47	-56.41	7.74	12.70	V
	6903.36	-57.06	-13	-44.06	-79.56	-59.76	9	11.70	V

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

LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447.18	-60.00	-13	-47.00	-73.66	-66.42	6.18	12.60	H
	5170.77	-55.81	-13	-42.81	-75.14	-60.77	7.74	12.70	H
	6894.36	-57.62	-13	-44.62	-79.57	-60.32	9	11.70	H
	3447.18	-57.26	-13	-44.26	-71.27	-63.68	6.18	12.60	V
	5170.77	-52.75	-13	-39.75	-72.78	-57.71	7.74	12.70	V
	6894.36	-56.66	-13	-43.66	-79.17	-59.36	9	11.70	V

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