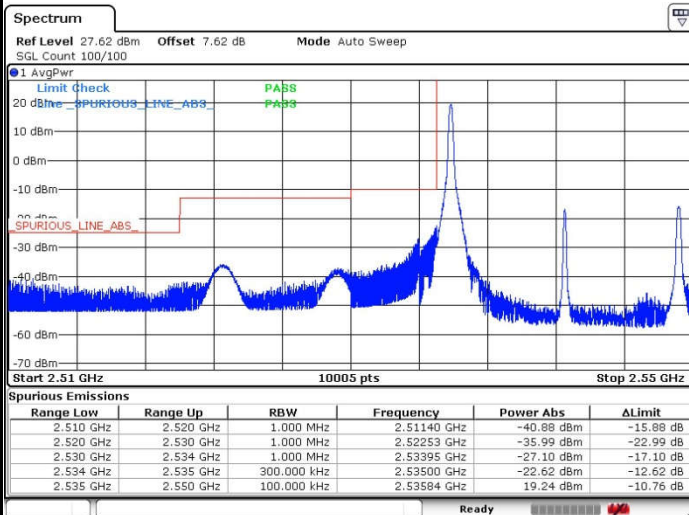




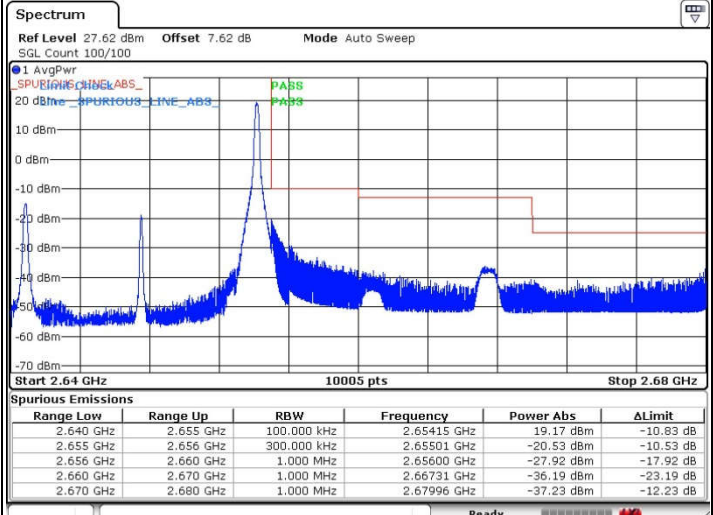
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



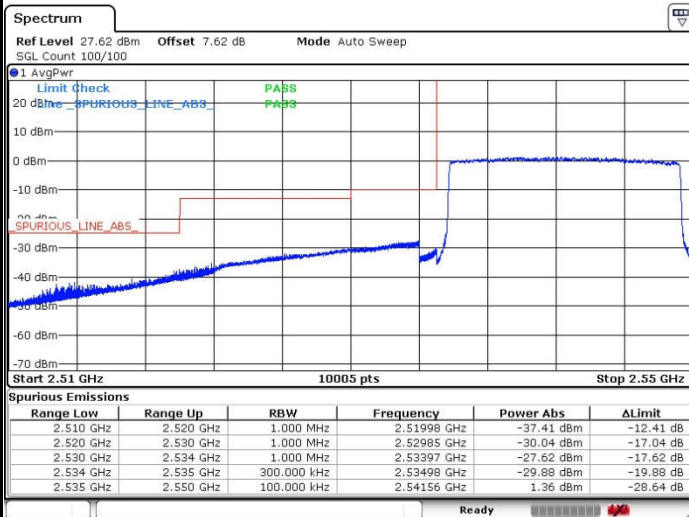
Date: 27 JUN 2018 07:50:33

Highest Band Edge / 1 RB



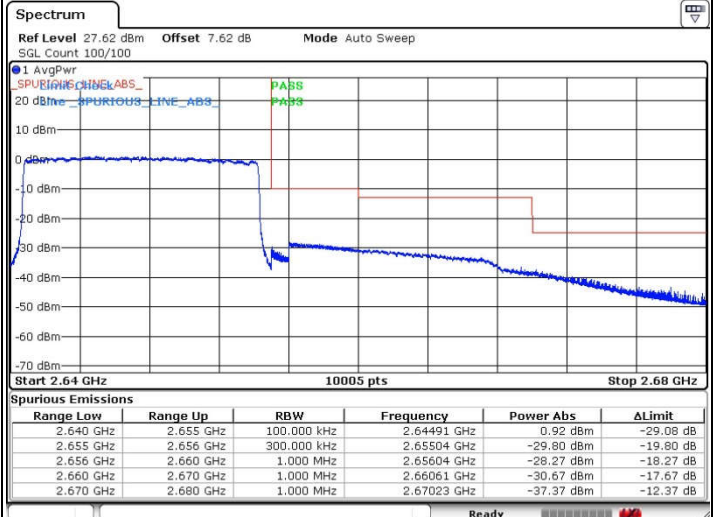
Date: 27 JUN 2018 07:42:07

Lowest Band Edge / Full RB



Date: 27 JUN 2018 07:51:45

Highest Band Edge / Full RB

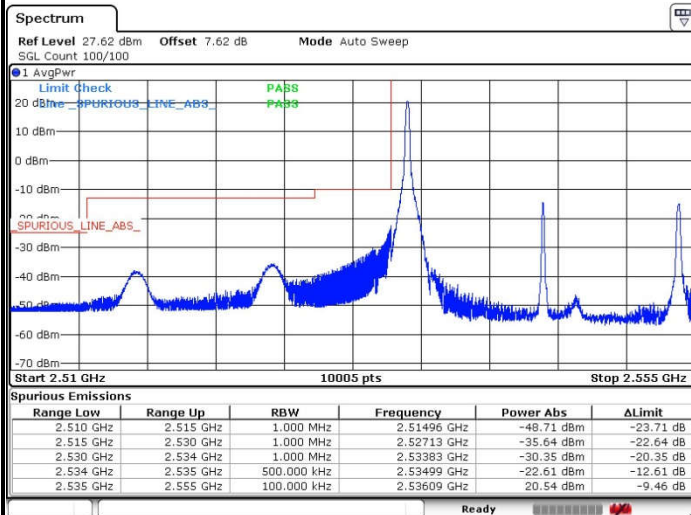


Date: 27 JUN 2018 07:40:50

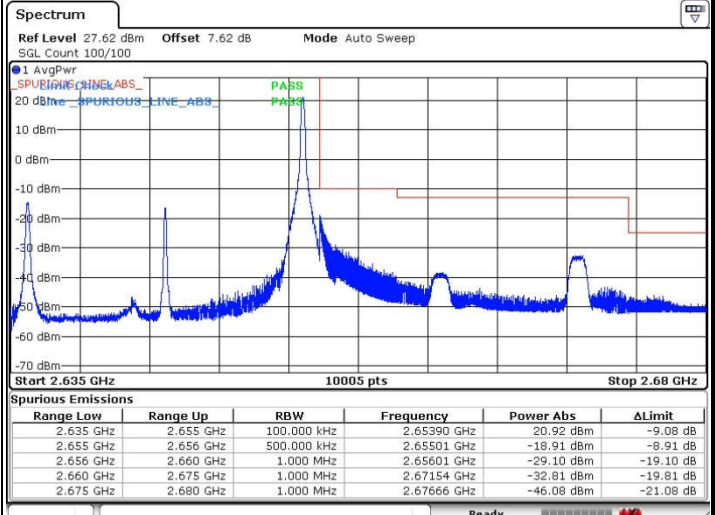


LTE Band 41 / 20MHz / QPSK

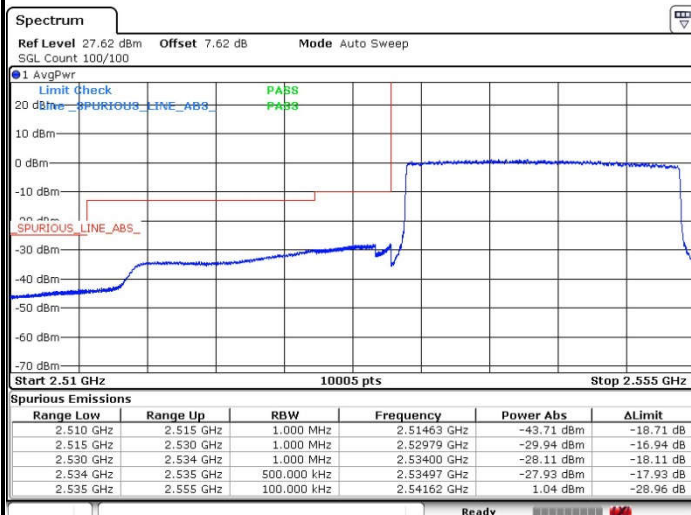
Lowest Band Edge / 1 RB



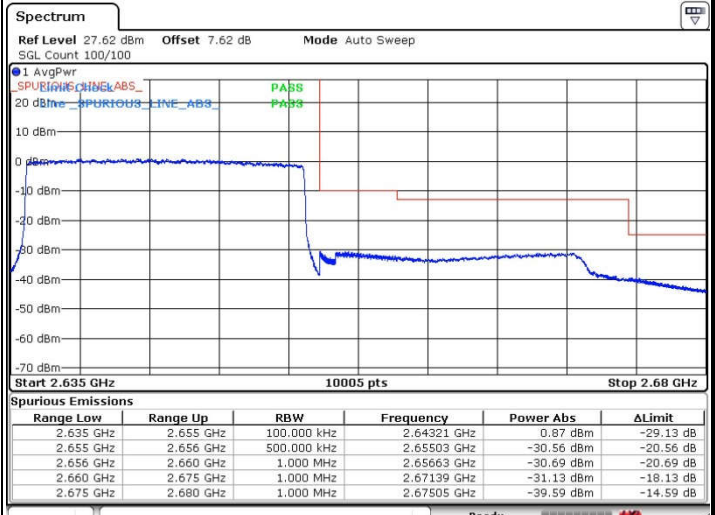
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



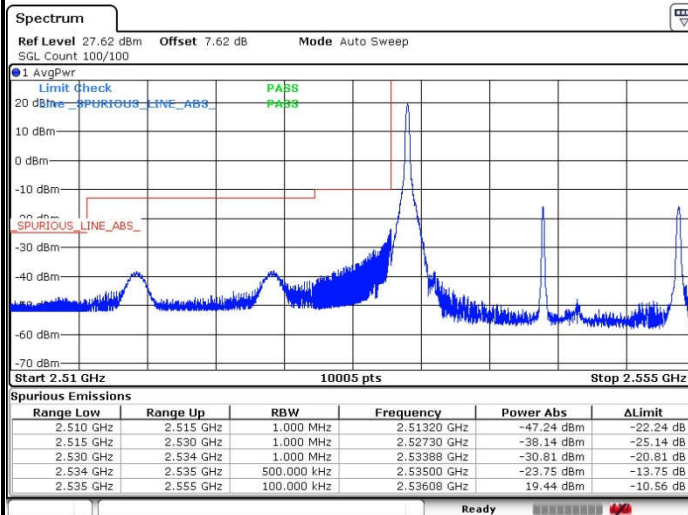
Highest Band Edge / Full RB





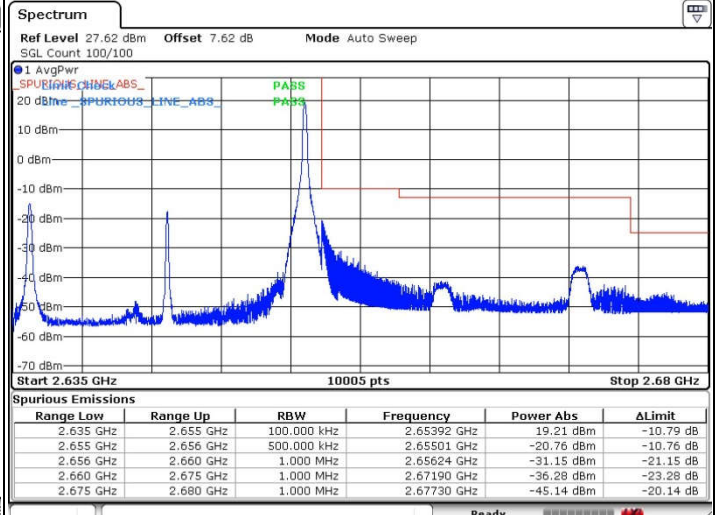
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



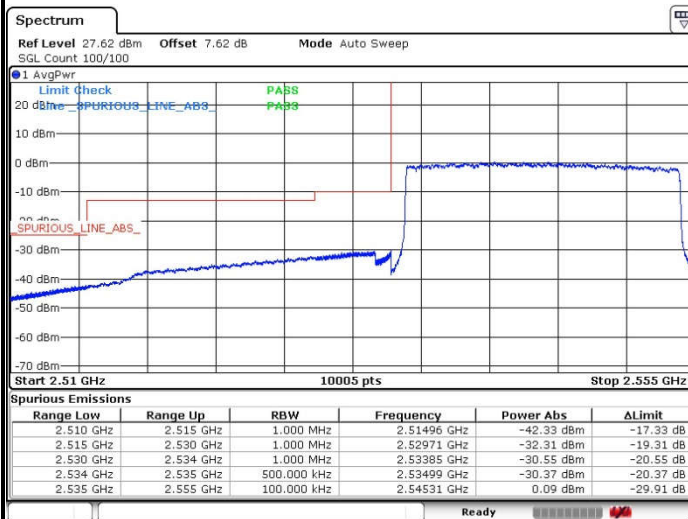
Date: 27 JUN 2018 07:28:38

Highest Band Edge / 1RB



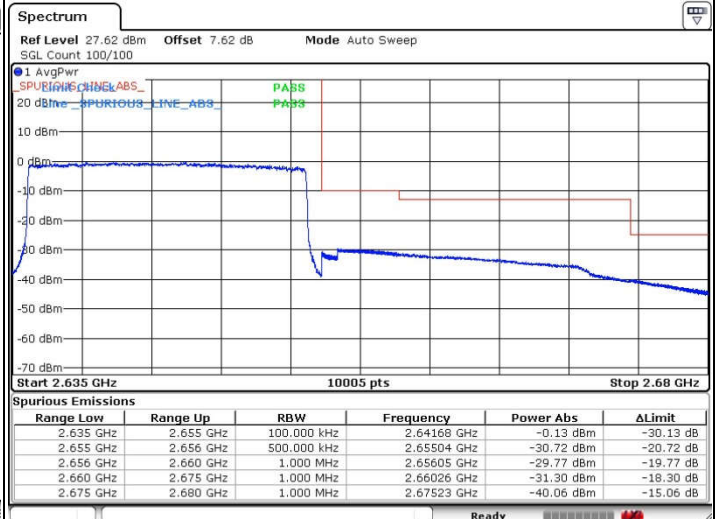
Date: 27 JUN 2018 07:34:02

Lowest Band Edge / Full RB



Date: 27 JUN 2018 07:24:55

Highest Band Edge / Full RB



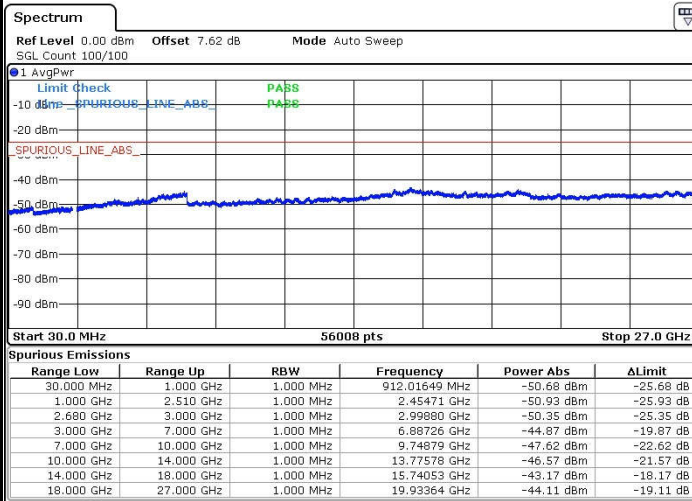
Date: 27 JUN 2018 07:35:15



Conducted Spurious Emission

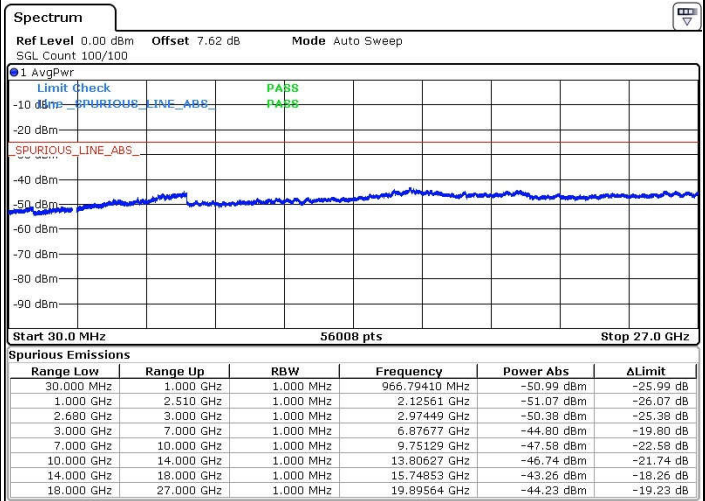
LTE Band 41 / 5MHz

Lowest Channel / QPSK



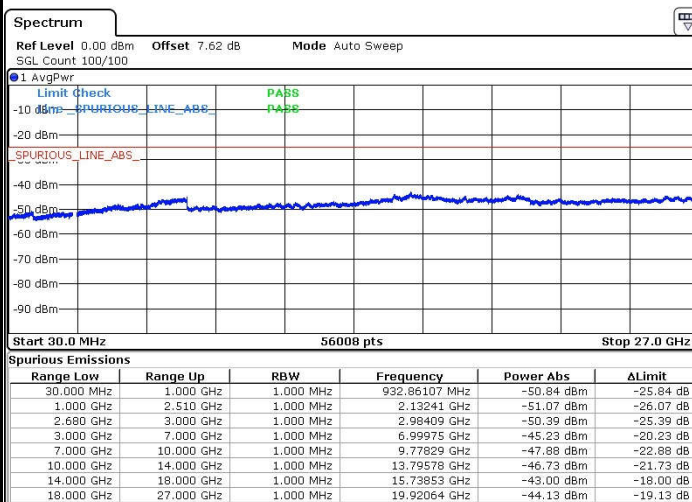
Date: 27 JUN 2018 06:36:59

Lowest Channel / 16QAM



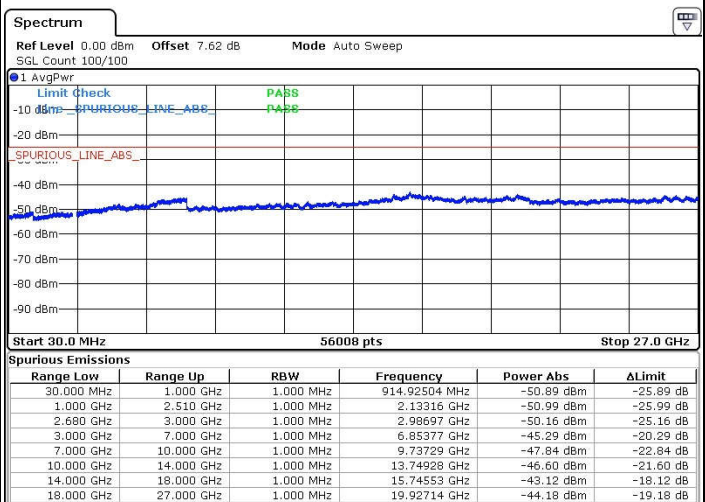
Date: 27 JUN 2018 06:38:04

Middle Channel / QPSK



Date: 27 JUN 2018 06:39:58

Middle Channel / 16QAM

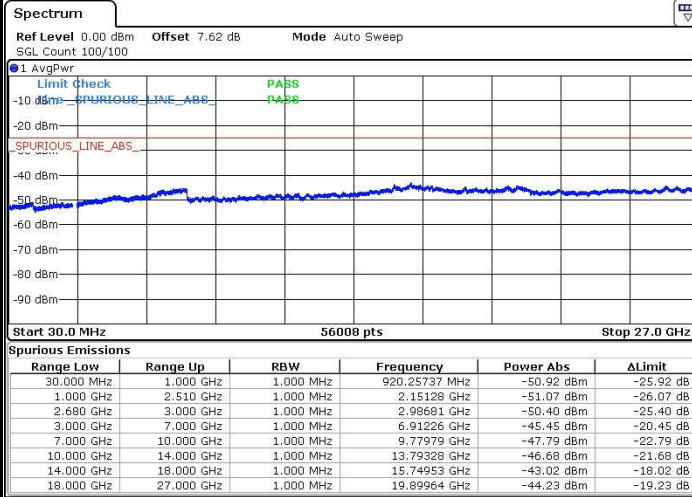


Date: 27 JUN 2018 06:39:00



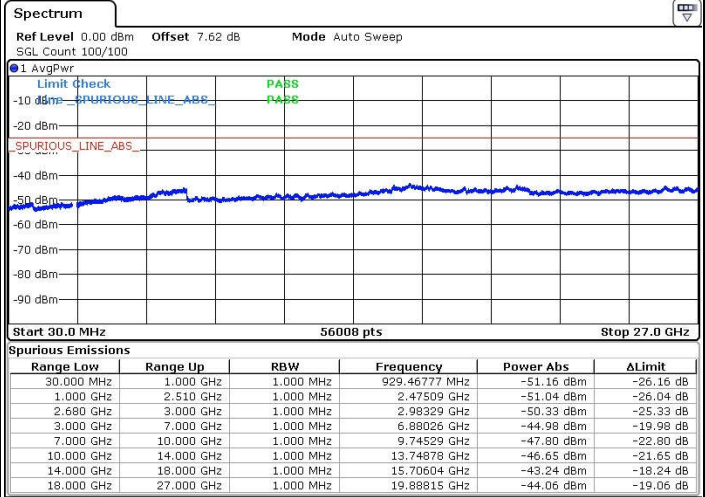
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 27 JUN 2018 06:41:10

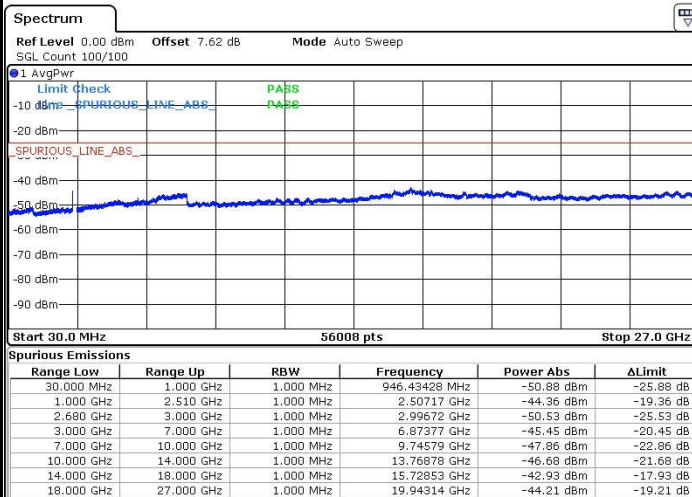
Highest Channel / 16QAM



Date: 27 JUN 2018 06:42:04

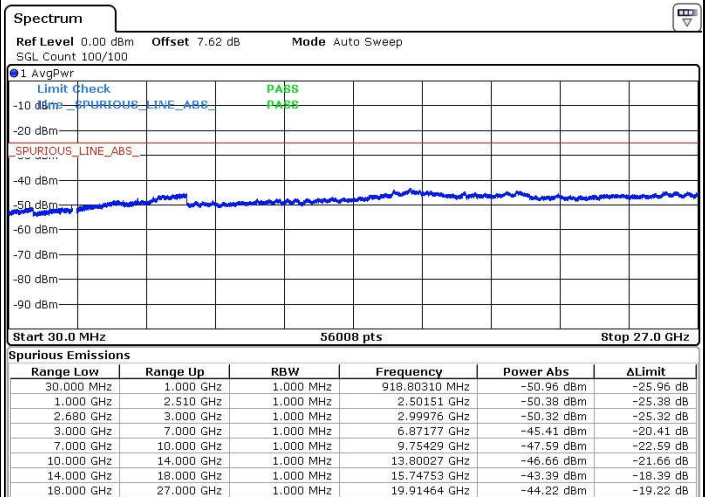
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 27 JUN 2018 06:46:24

Lowest Channel / 16QAM

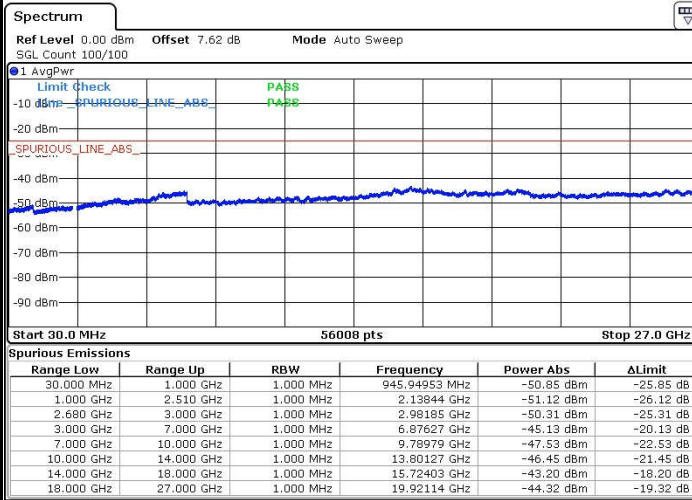


Date: 27 JUN 2018 06:47:38



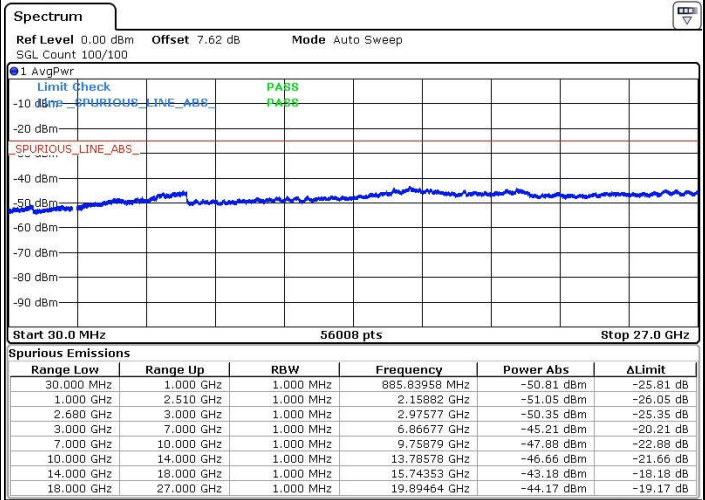
LTE Band 41 / 10MHz

Middle Channel / QPSK



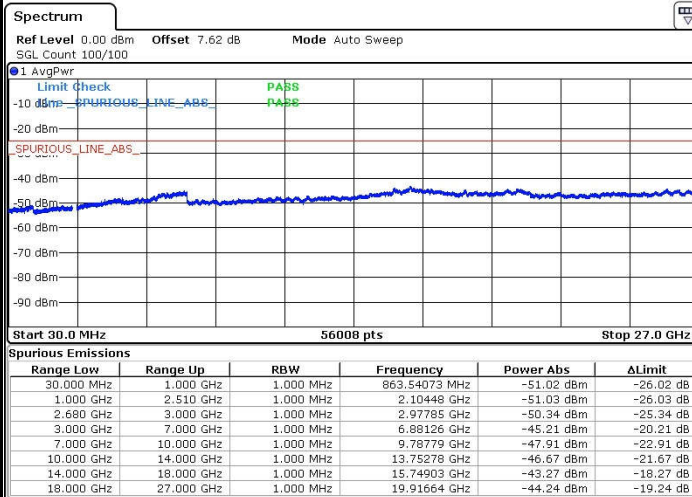
Date: 27 JUN 2018 06:49:28

Middle Channel / 16QAM



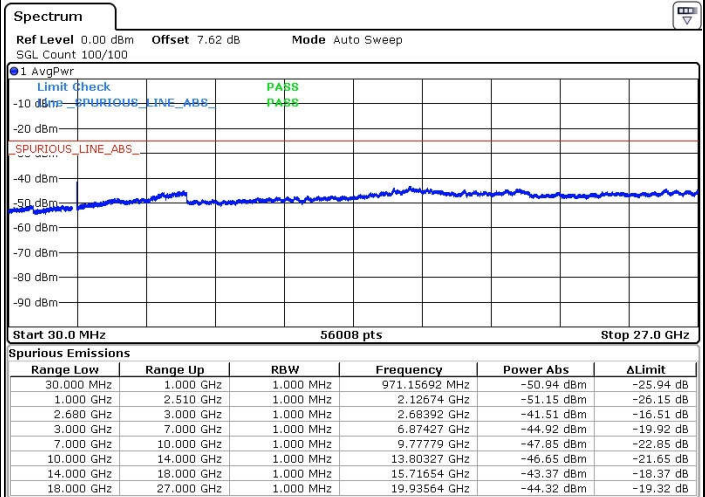
Date: 27 JUN 2018 06:48:31

Highest Channel / QPSK



Date: 27 JUN 2018 06:50:38

Highest Channel / 16QAM

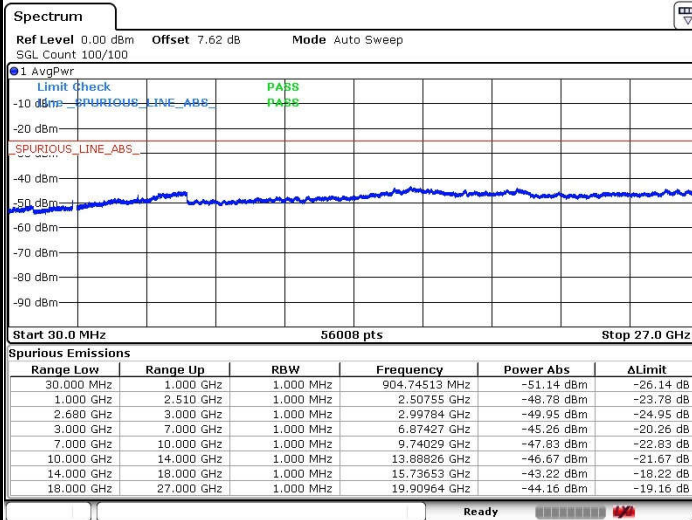


Date: 27 JUN 2018 06:51:33



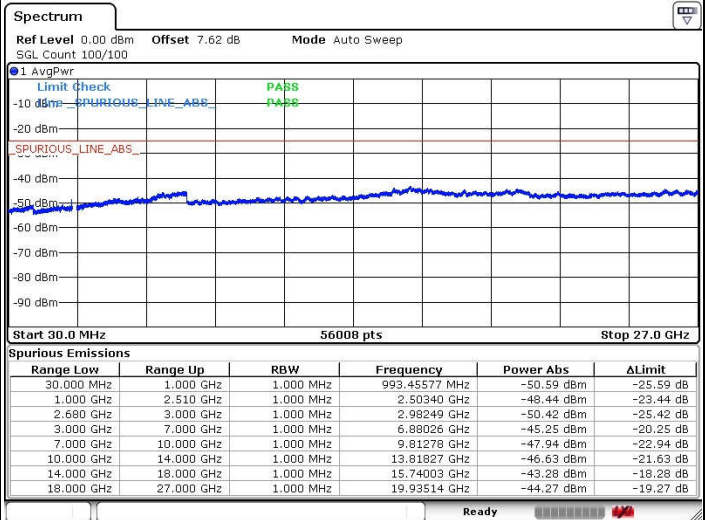
LTE Band 41 / 15MHz

Lowest Channel / QPSK



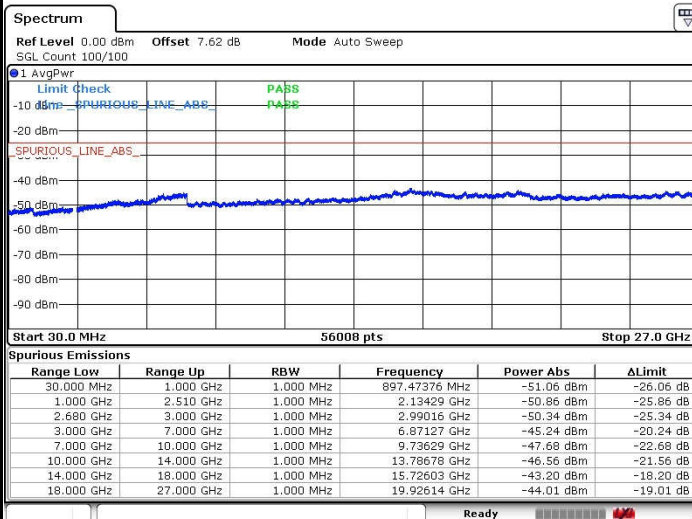
Date: 27 JUN 2018 07:04:59

Lowest Channel / 16QAM



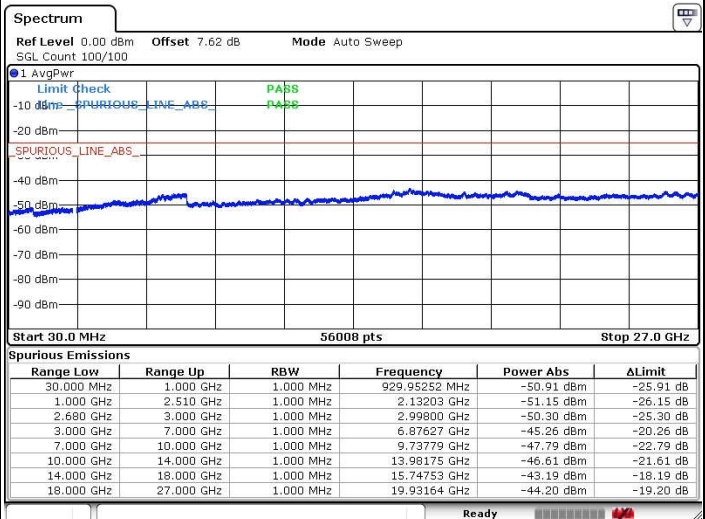
Date: 27 JUN 2018 07:03:44

Middle Channel / QPSK



Date: 27 JUN 2018 07:05:52

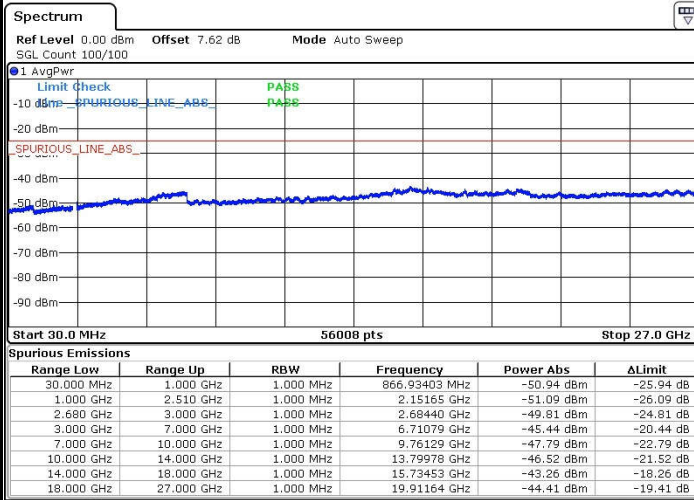
Middle Channel / 16QAM



Date: 27 JUN 2018 07:06:40

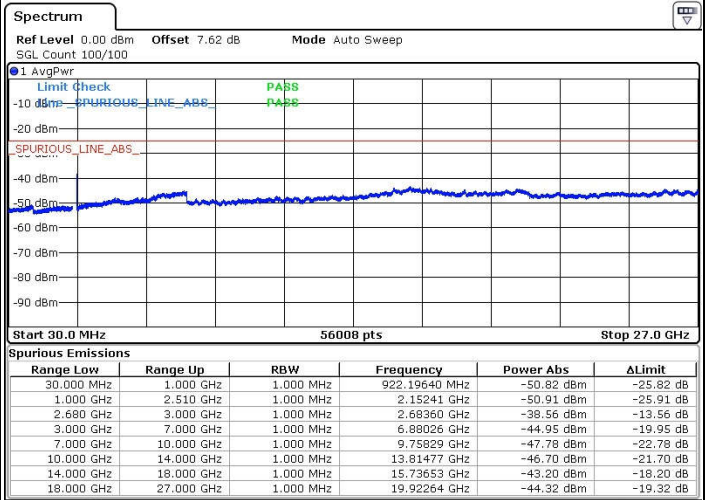


Highest Channel / QPSK



Date: 27 JUN 2018 07:08:26

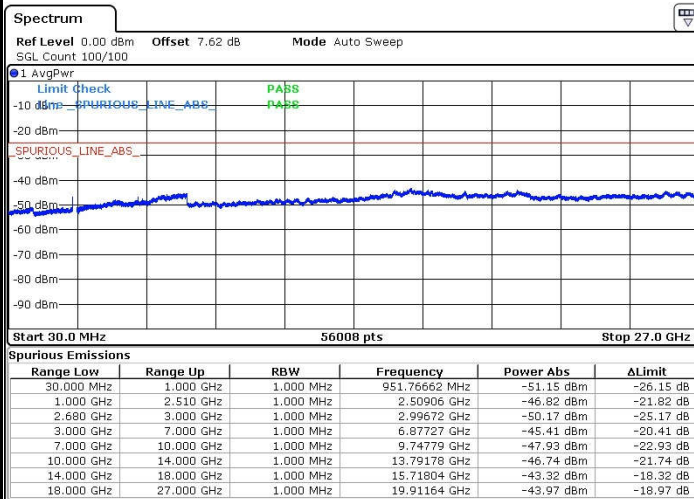
Highest Channel / 16QAM



Date: 27 JUN 2018 07:07:36

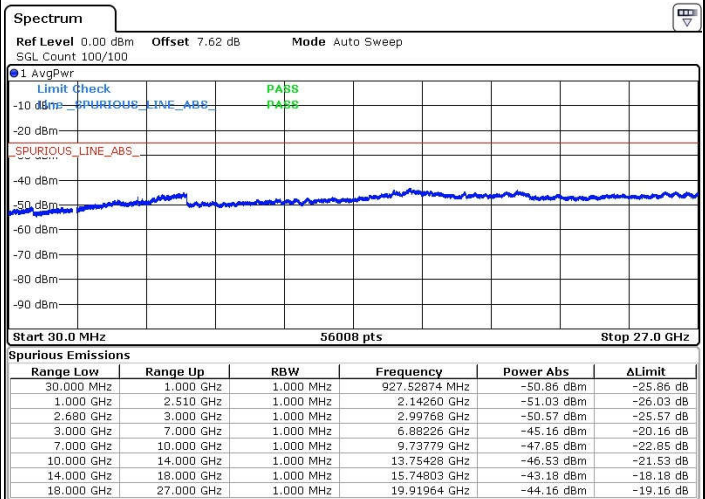
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 27 JUN 2018 07:09:45

Lowest Channel / 16QAM

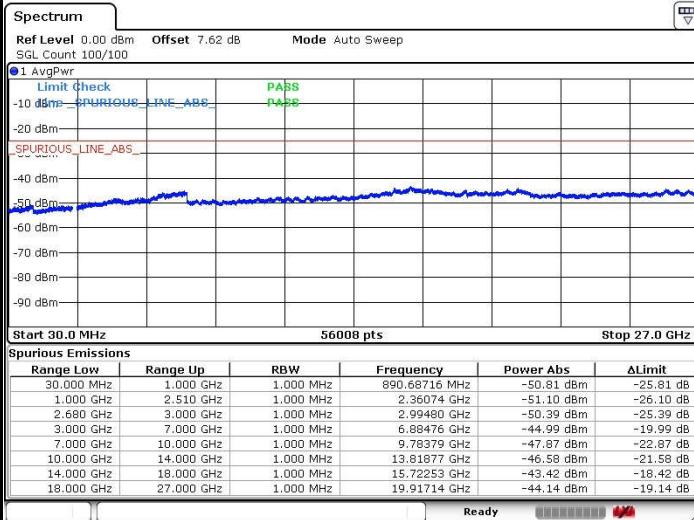


Date: 27 JUN 2018 07:10:53



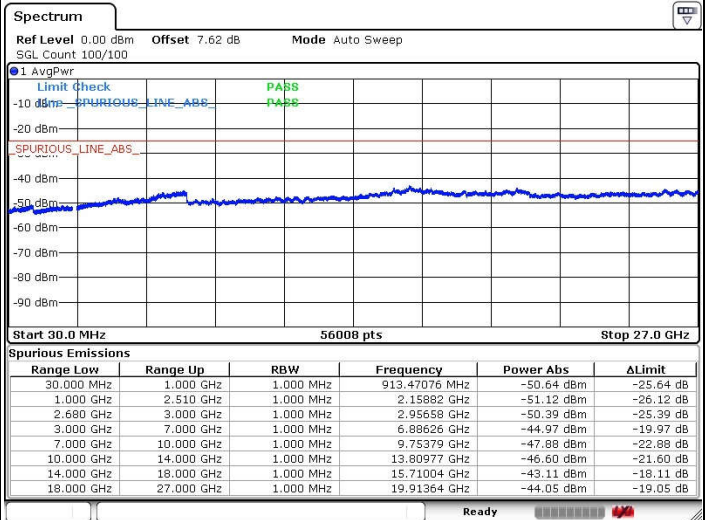
LTE Band 41 / 20MHz

Middle Channel / QPSK



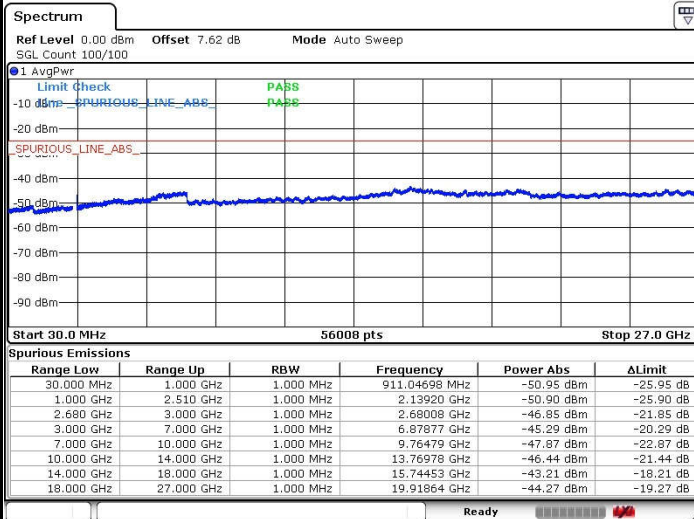
Date: 27 JUN 2018 07:12:56

Middle Channel / 16QAM



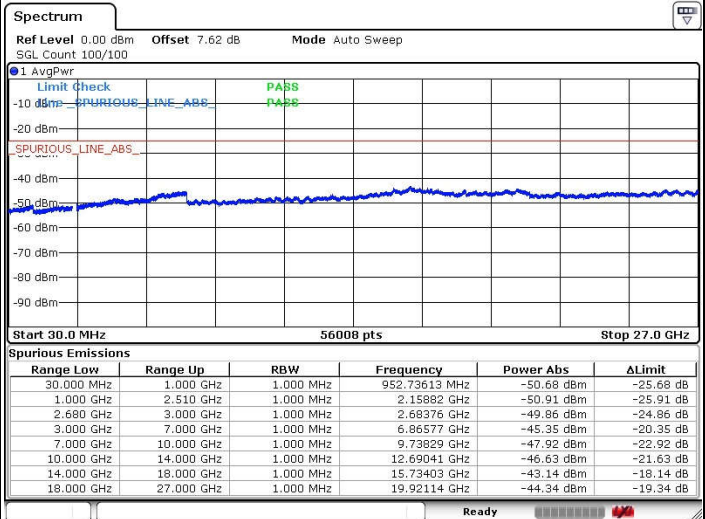
Date: 27 JUN 2018 07:12:00

Highest Channel / QPSK



Date: 27 JUN 2018 07:13:52

Highest Channel / 16QAM



Date: 27 JUN 2018 07:14:57

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0002	
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 =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

EIRP

LTE Band 41 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	24.71	0.2956	24.54	0.2845
Middle		1	24	24.46	0.2795	23.95	0.2482
Highest		1	24	25.21	0.3321	25.14	0.3268
Lowest	16QAM	1	12	23.07	0.2029	22.73	0.1875
Middle		1	24	22.97	0.1982	22.65	0.1840
Highest		1	24	23.92	0.2468	23.78	0.2386
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	24.48	0.2805	24.11	0.2577
Middle		1	25	23.20	0.2090	22.80	0.1906
Highest		1	25	22.79	0.1901	22.83	0.1917
Lowest	16QAM	1	49	22.44	0.1755	22.37	0.1726
Middle		1	0	23.78	0.2390	23.52	0.2251
Highest		1	0	23.26	0.2116	23.18	0.2082
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	24.38	0.2739	24.30	0.2692
Middle		1	74	24.69	0.2947	24.18	0.2617
Highest		1	37	25.18	0.3295	25.11	0.3244
Lowest	16QAM	1	0	23.89	0.2451	23.58	0.2282
Middle		1	37	24.08	0.2558	23.69	0.2336
Highest		1	0	23.71	0.2351	23.51	0.2242
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	24.65	0.2914	24.80	0.3018
Middle		1	49	25.11	0.3243	24.69	0.2943
Highest		1	0	25.12	0.3252	24.80	0.3018
Lowest	16QAM	1	0	22.70	0.1864	22.36	0.1723
Middle		1	49	22.87	0.1935	22.47	0.1764
Highest		1	0	24.47	0.2802	24.19	0.2622
Limit	EIRP < 2W			Result		PASS	



Radiated Spurious Emission

LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0								
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	5172	-54.38	-25	-29.38	-61.36	2.40	9.38	H
	7760	-38.14	-25	-13.14	-47.69	2.97	12.51	H
	10341	-56.43	-25	-31.43	-65.04	3.49	12.10	H
	12933	-52.32	-25	-27.32	-61.52	3.90	13.10	H
	5172	-52.19	-25	-27.19	-59.17	2.40	9.38	V
	7756	-37.84	-25	-12.84	-47.39	2.97	12.51	V
	10341	-58.25	-25	-33.25	-66.86	3.49	12.10	V
	12933	-50.79	-25	-25.79	-59.99	3.90	13.10	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG860402B which is issued separately.