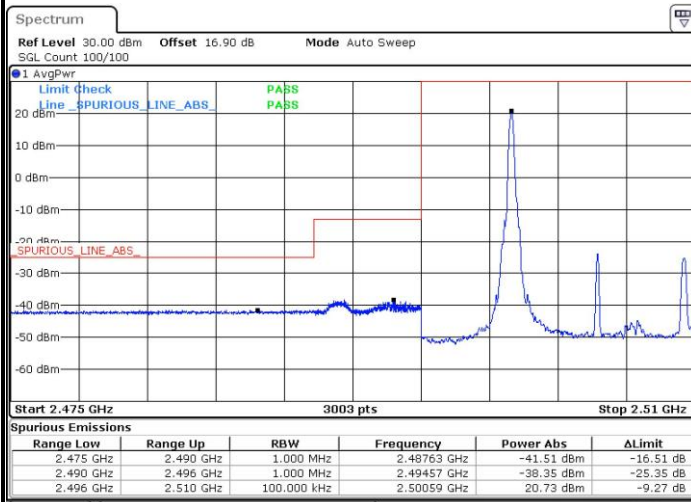


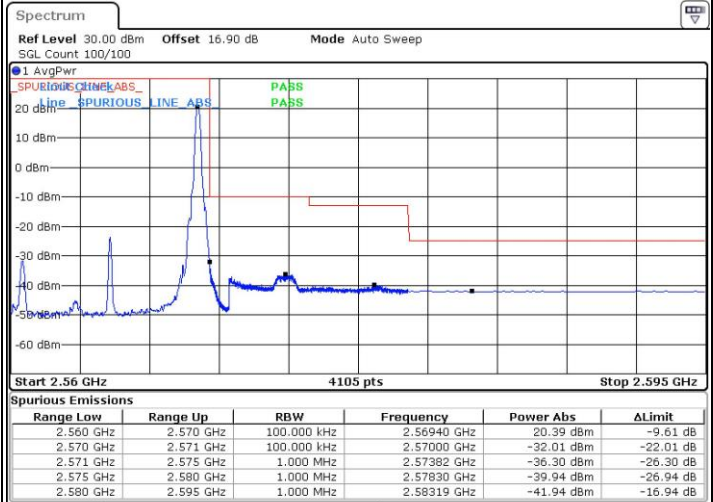


LTE Band 7 / 10MHz / QPSK

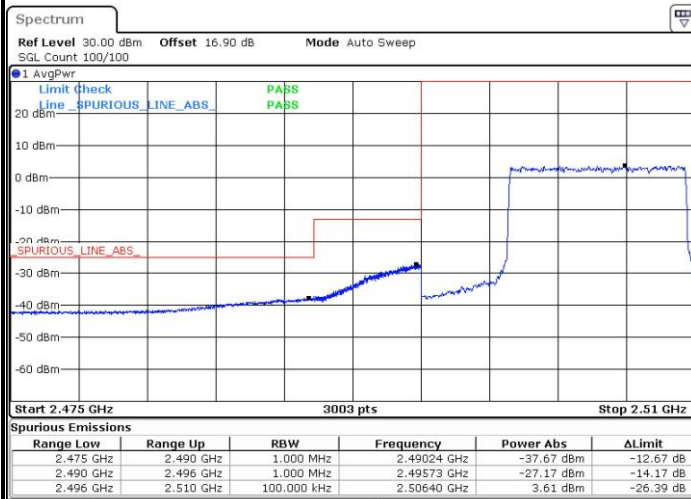
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



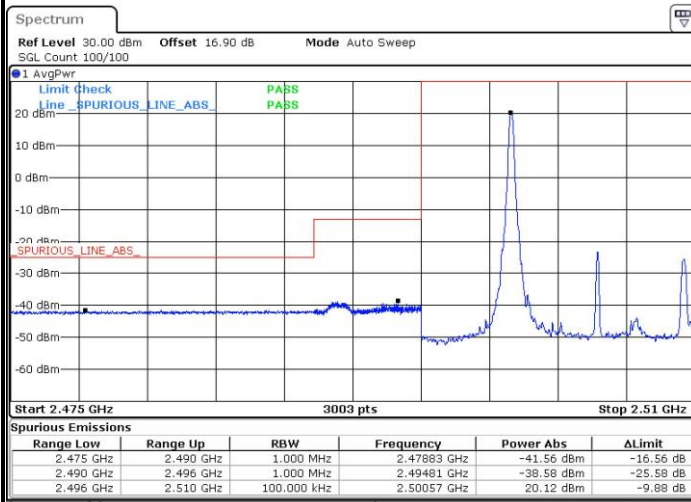
Highest Band Edge / Full RB



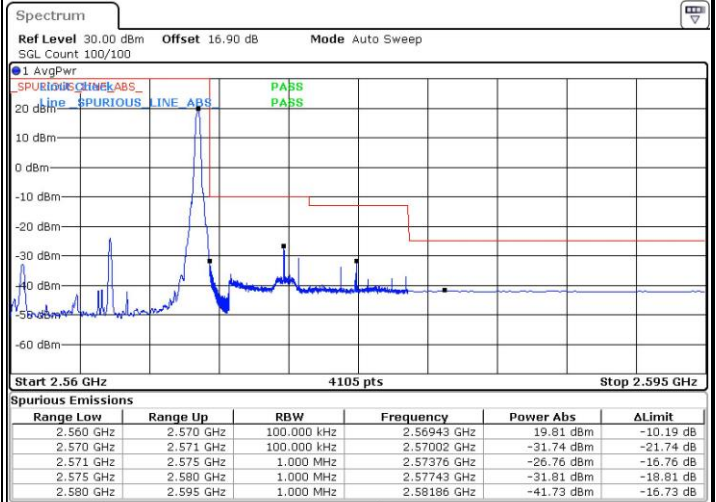


LTE Band 7 / 10MHz / 16QAM

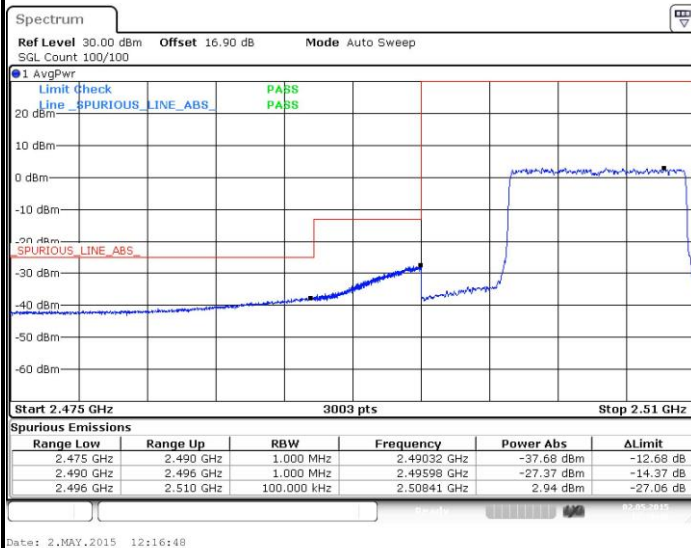
Lowest Band Edge / 1 RB



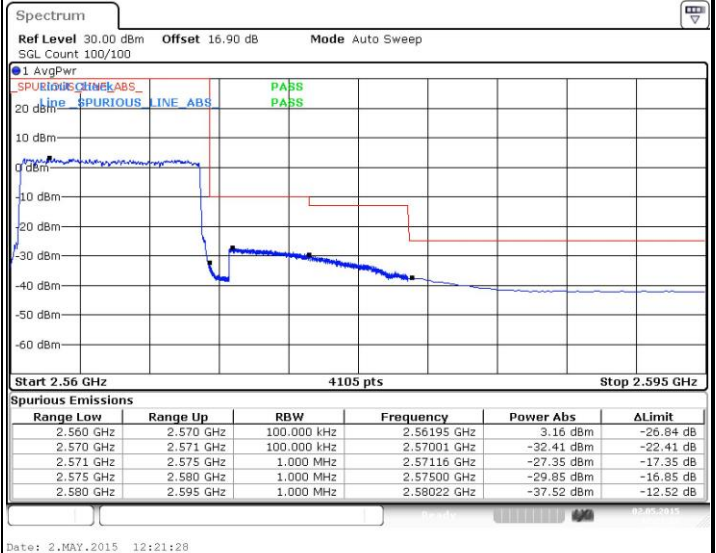
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



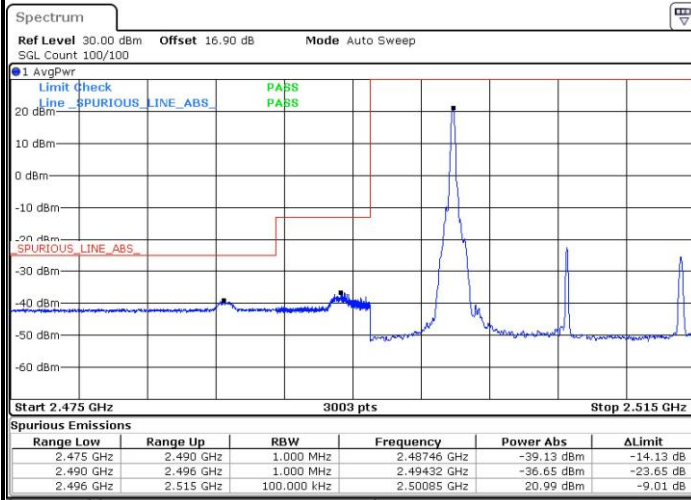
Highest Band Edge / Full RB



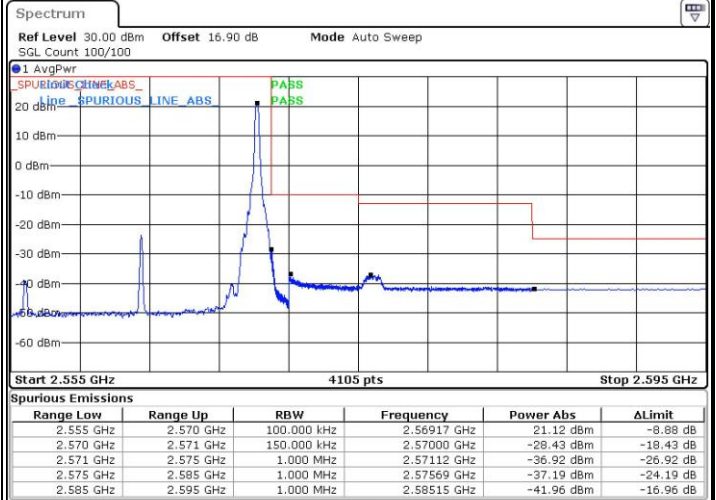


LTE Band 7 / 15MHz / QPSK

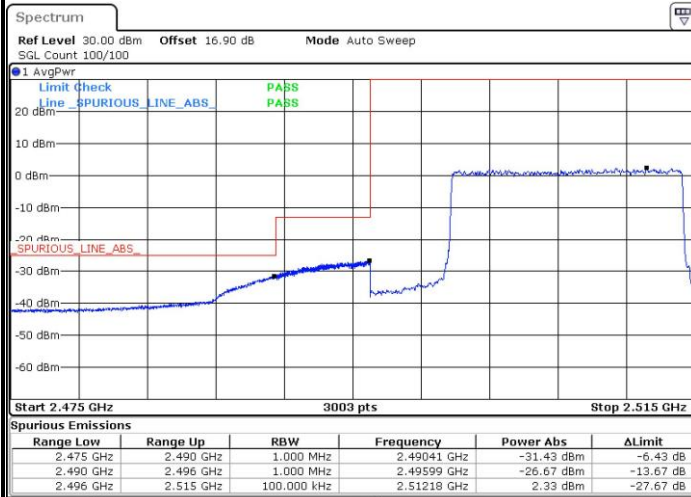
Lowest Band Edge / 1 RB



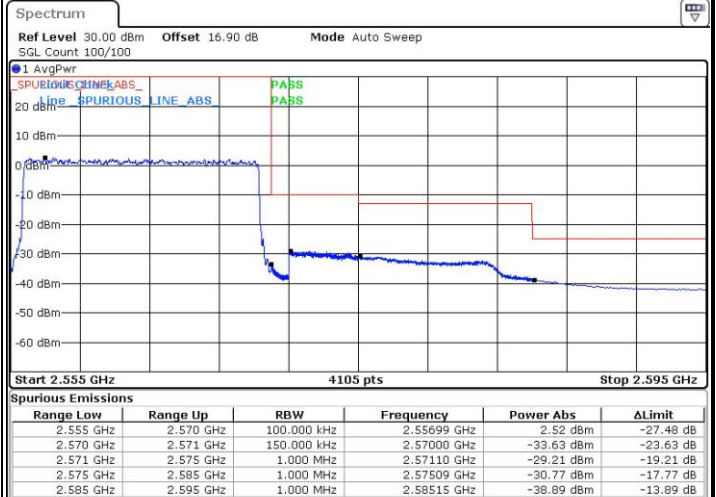
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



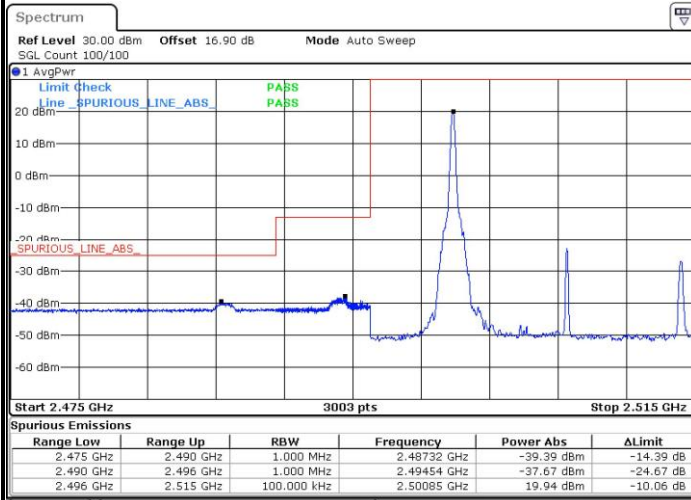
Highest Band Edge / Full RB



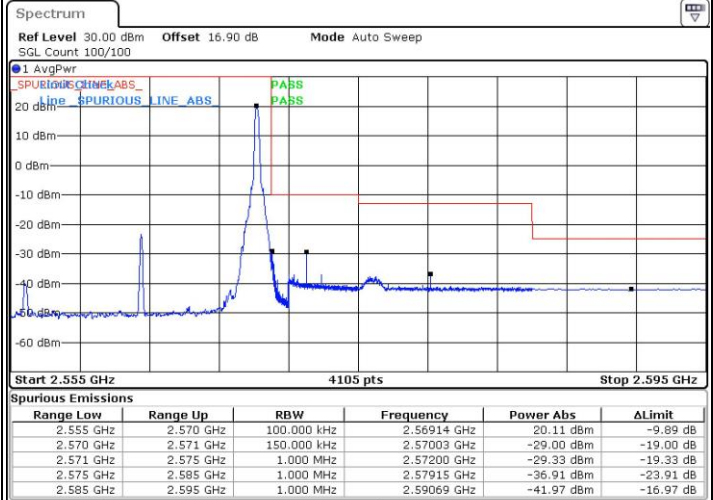


LTE Band 7 / 15MHz / 16QAM

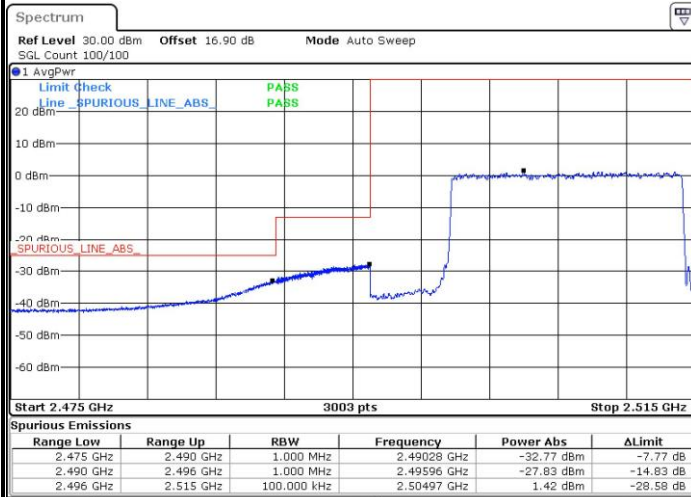
Lowest Band Edge / 1 RB



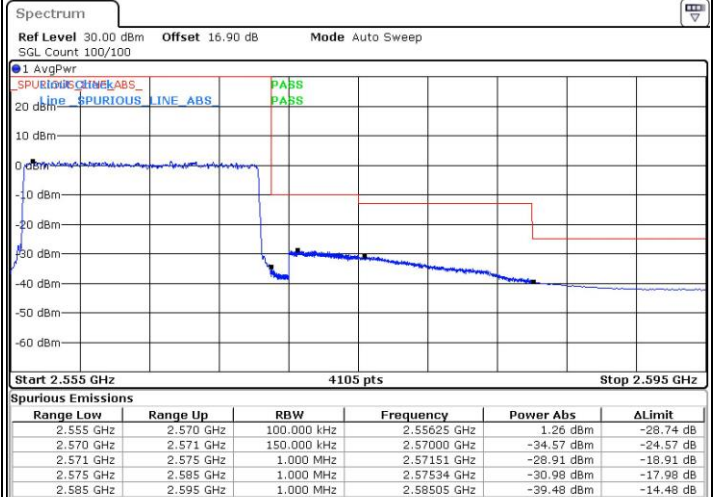
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



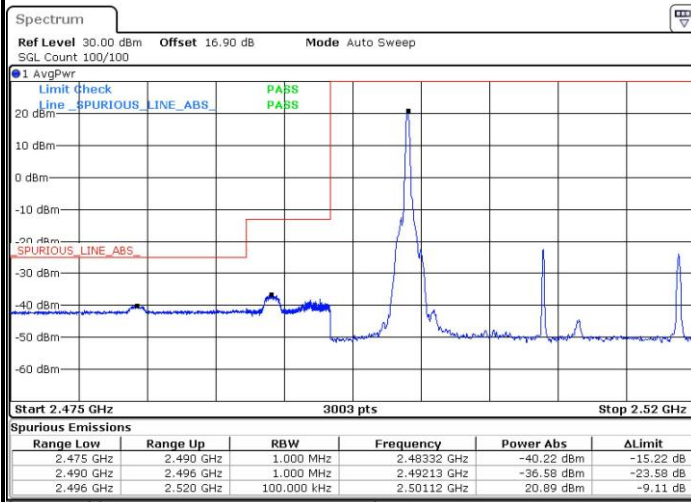
Highest Band Edge / Full RB





LTE Band 7 / 20MHz / QPSK

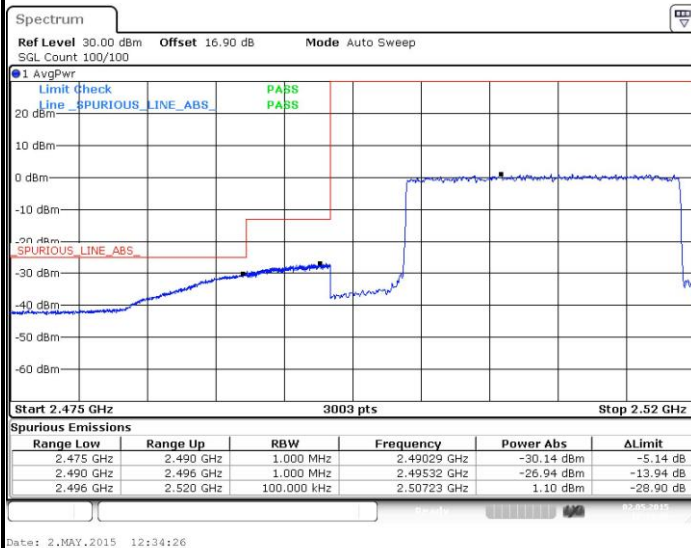
Lowest Band Edge / 1 RB



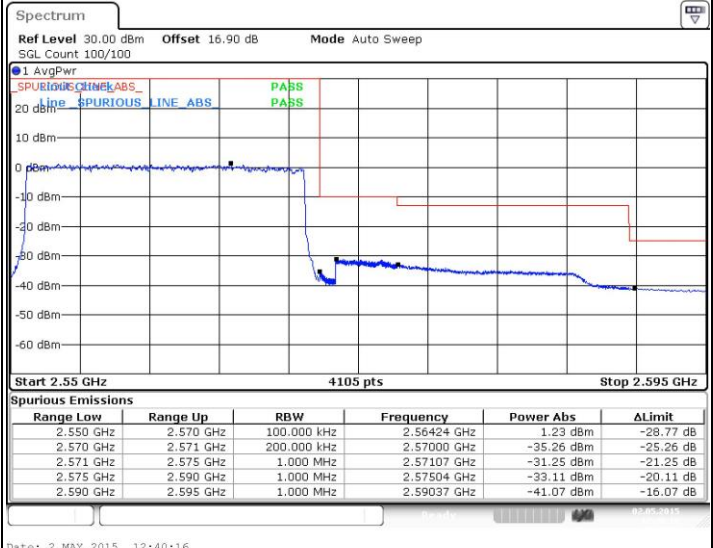
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



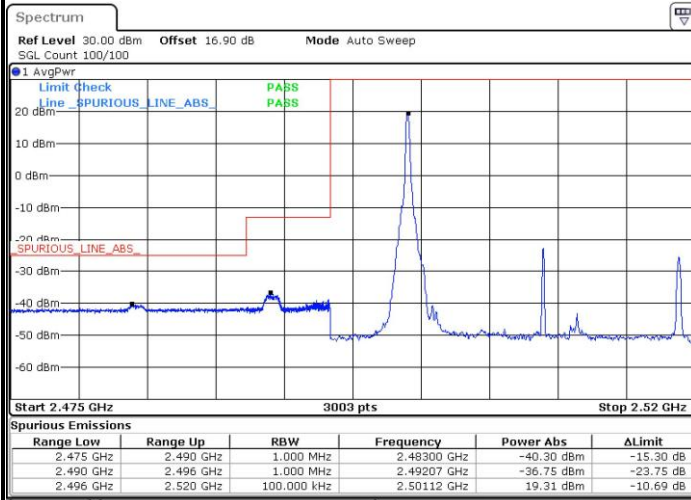
Highest Band Edge / Full RB





LTE Band 7 / 20MHz / 16QAM

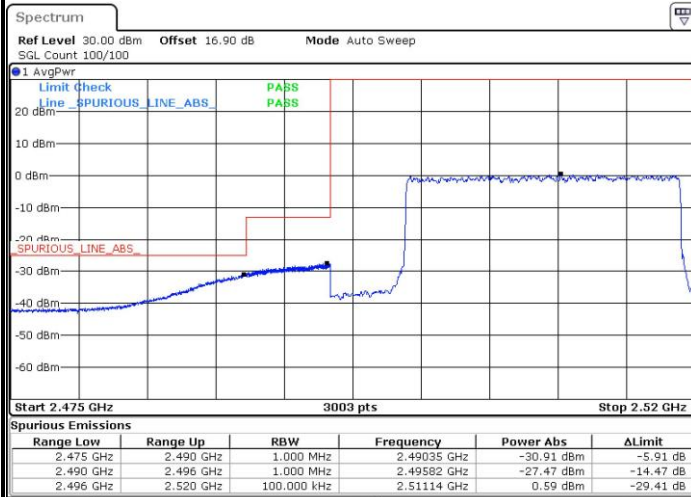
Lowest Band Edge / 1 RB



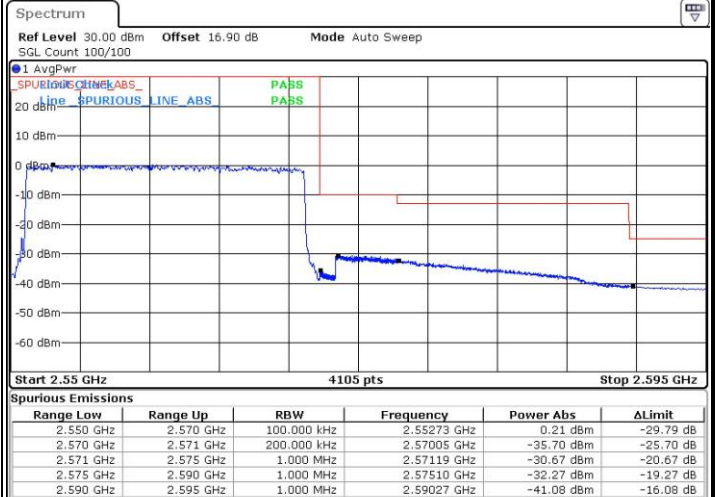
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



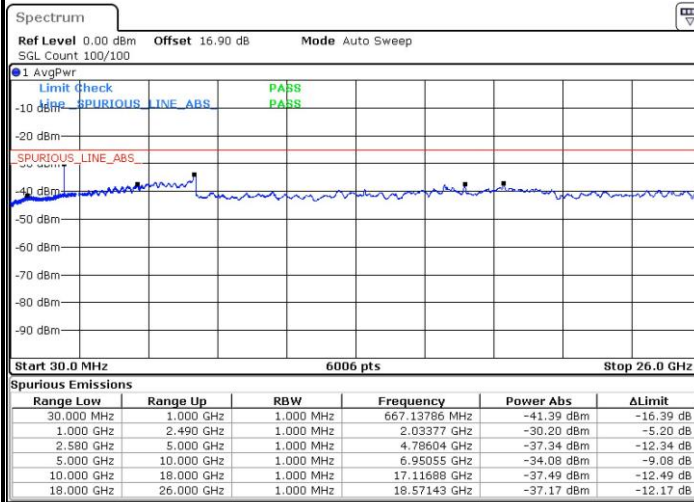


Conducted Spurious Emission



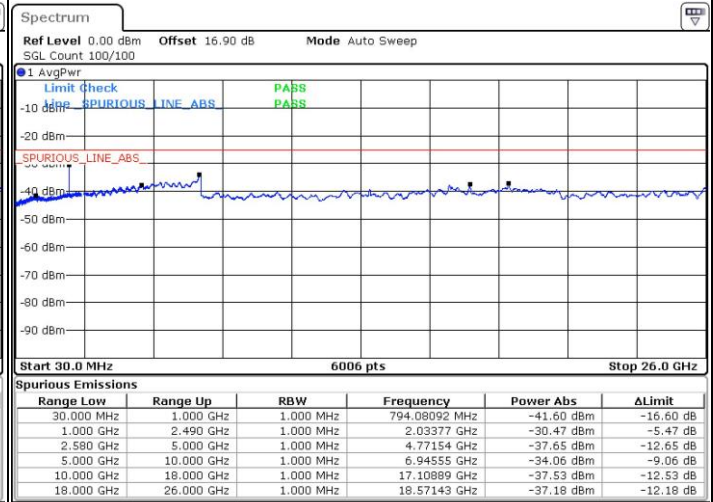
LTE Band 7 / 5MHz

Lowest Channel / QPSK



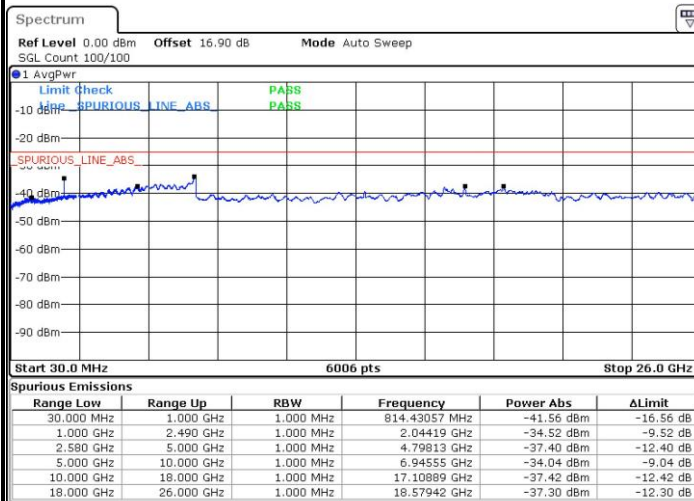
Date: 2.MAY.2015 10:32:24

Lowest Channel / 16QAM



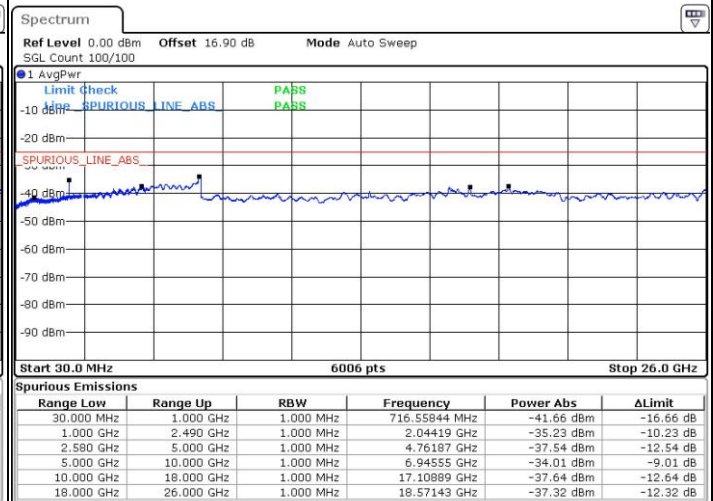
Date: 2.MAY.2015 10:33:35

Middle Channel / QPSK



Date: 2.MAY.2015 10:35:36

Middle Channel / 16QAM

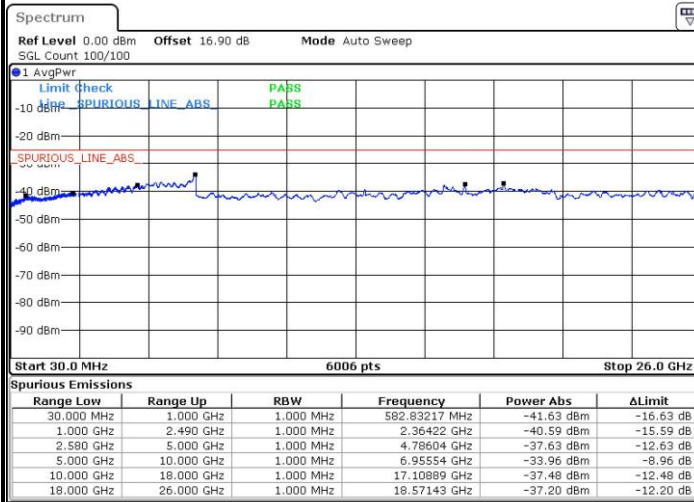


Date: 2.MAY.2015 10:36:46



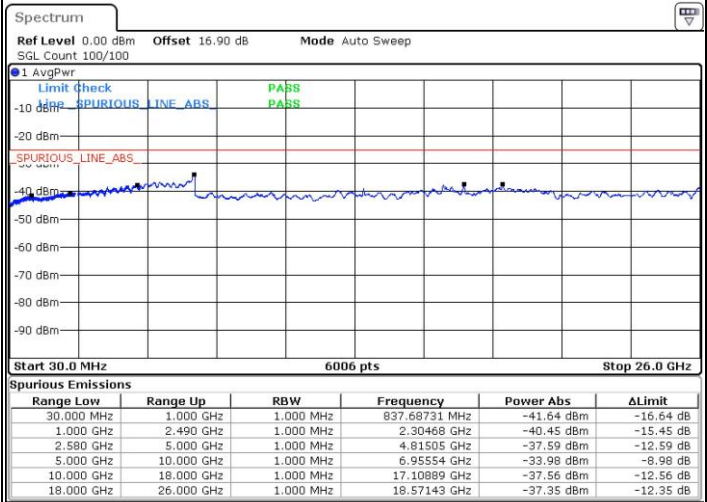
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 2.MAY.2015 10:43:27

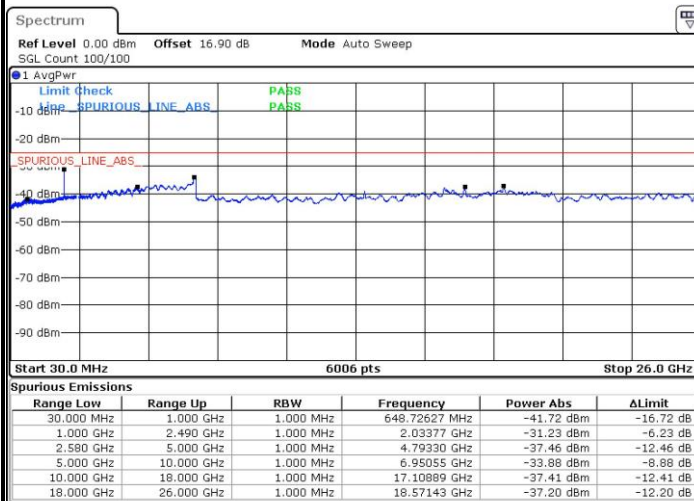
Highest Channel / 16QAM



Date: 2.MAY.2015 10:44:37

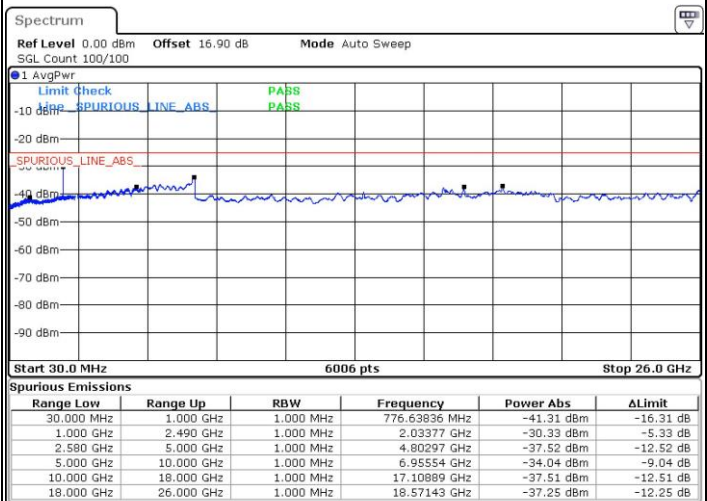
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 2.MAY.2015 10:51:35

Lowest Channel / 16QAM

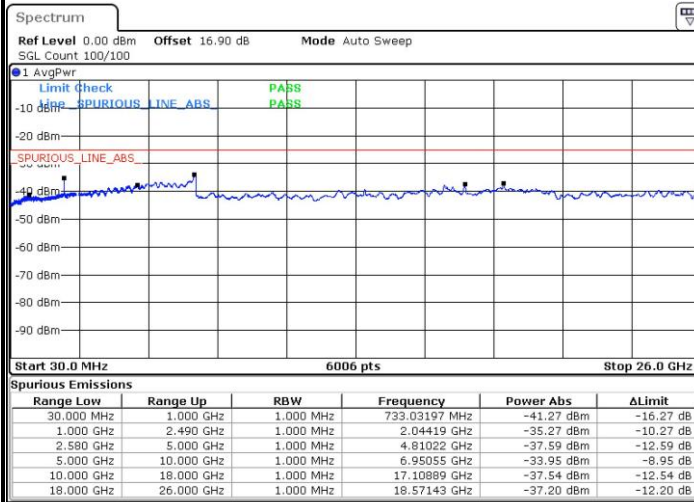


Date: 2.MAY.2015 10:52:46



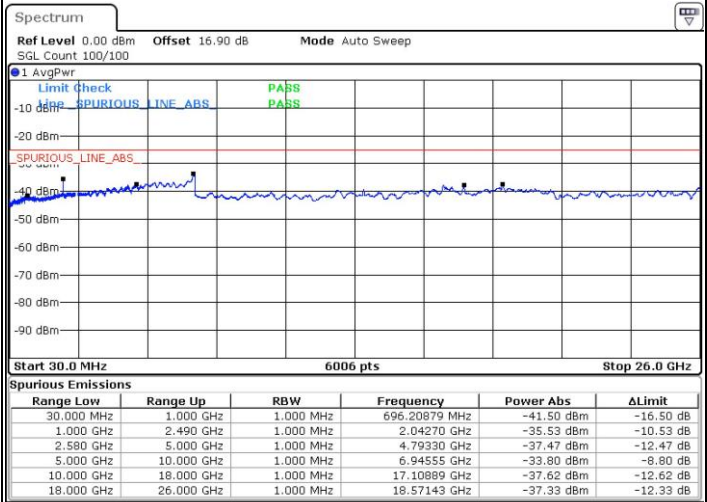
LTE Band 7 / 10MHz

Middle Channel / QPSK



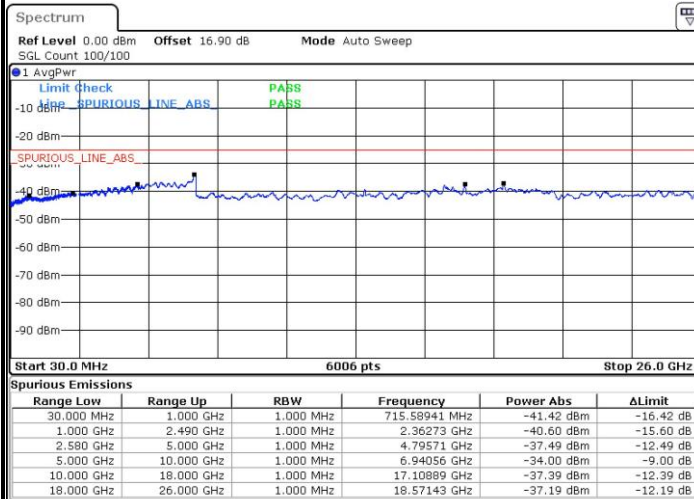
Date: 2.MAY.2015 10:54:47

Middle Channel / 16QAM



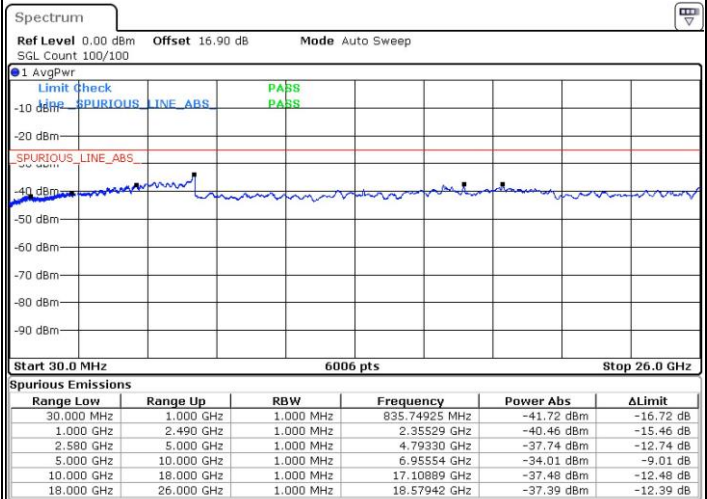
Date: 2.MAY.2015 10:55:57

Highest Channel / QPSK



Date: 2.MAY.2015 11:02:38

Highest Channel / 16QAM

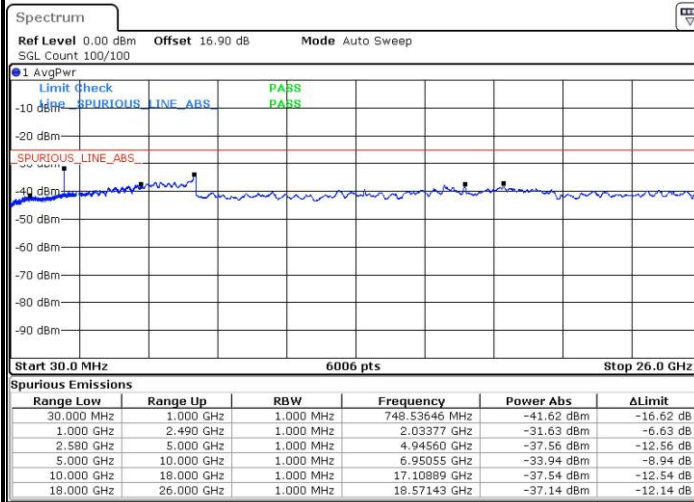


Date: 2.MAY.2015 11:03:48



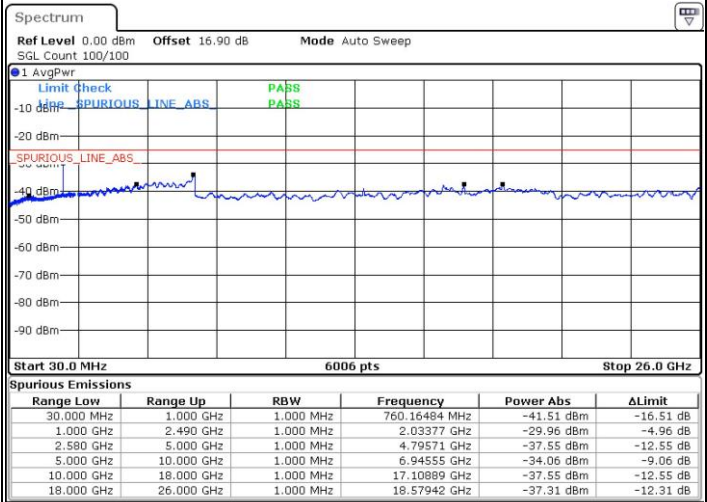
LTE Band 7 / 15MHz

Lowest Channel / QPSK



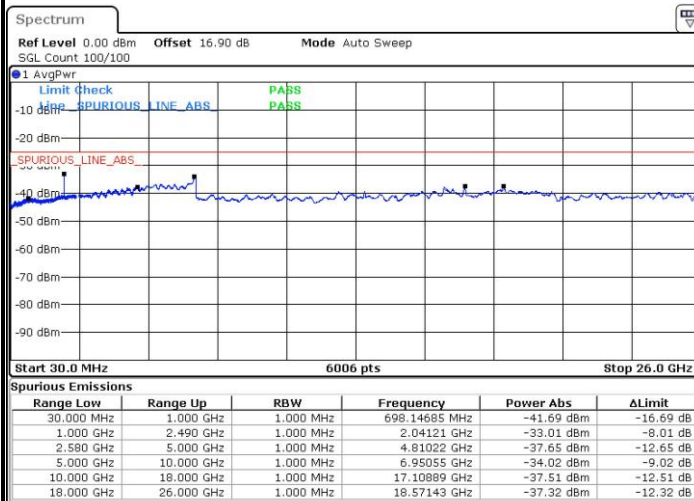
Date: 2.MAY.2015 11:10:46

Lowest Channel / 16QAM



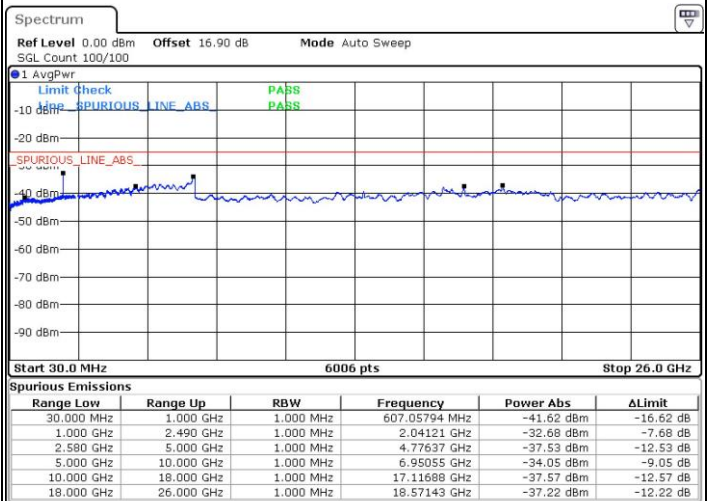
Date: 2.MAY.2015 11:11:57

Middle Channel / QPSK



Date: 2.MAY.2015 11:13:58

Middle Channel / 16QAM

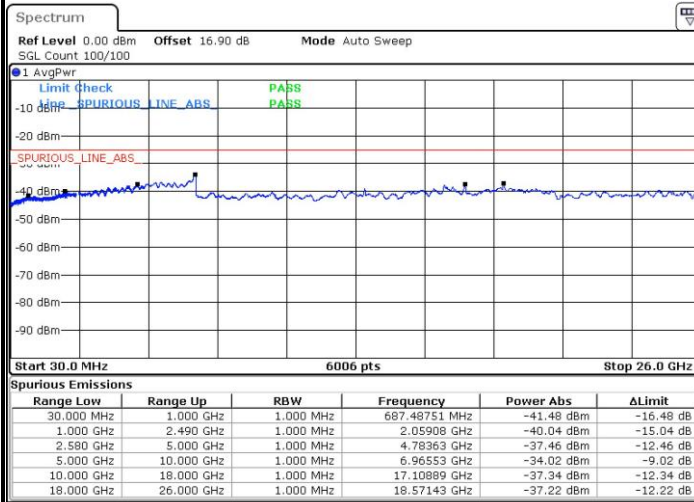


Date: 2.MAY.2015 11:15:08



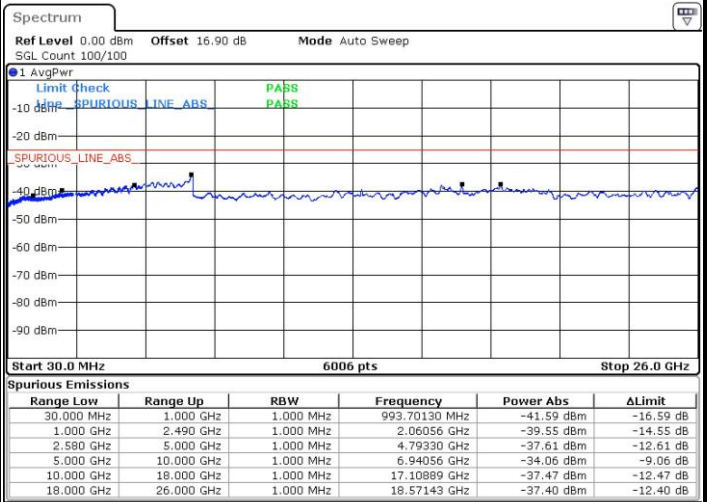
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 2.MAY.2015 11:21:49

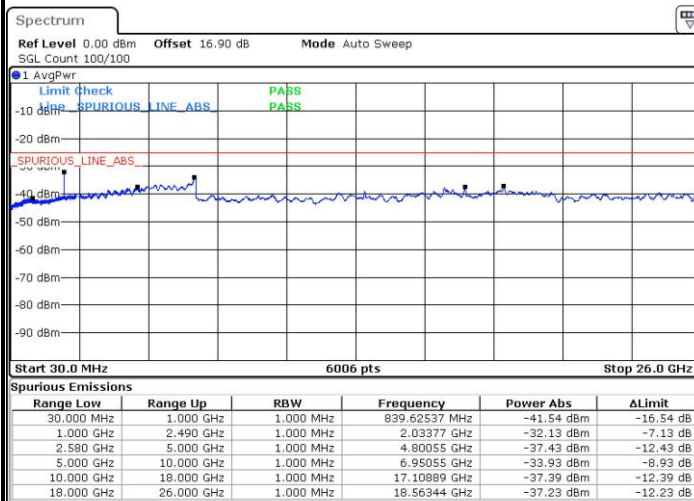
Highest Channel / 16QAM



Date: 2.MAY.2015 11:22:59

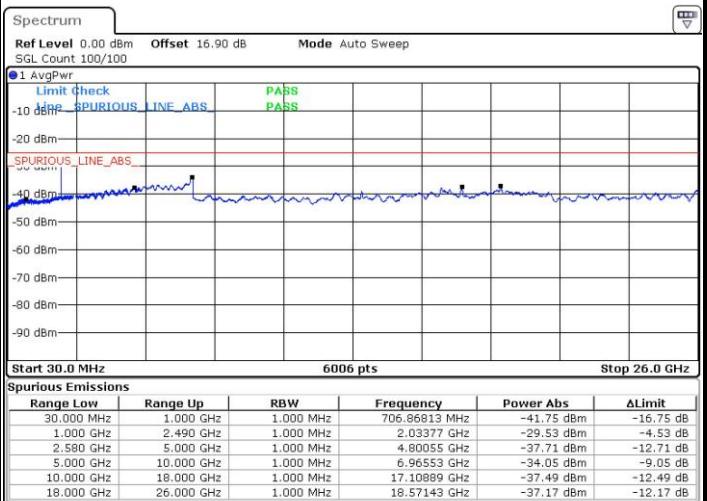
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 2.MAY.2015 11:29:57

Lowest Channel / 16QAM

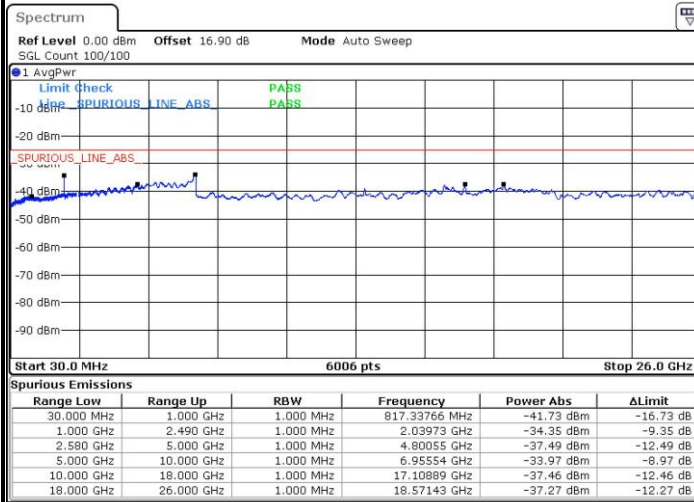


Date: 2.MAY.2015 11:31:07



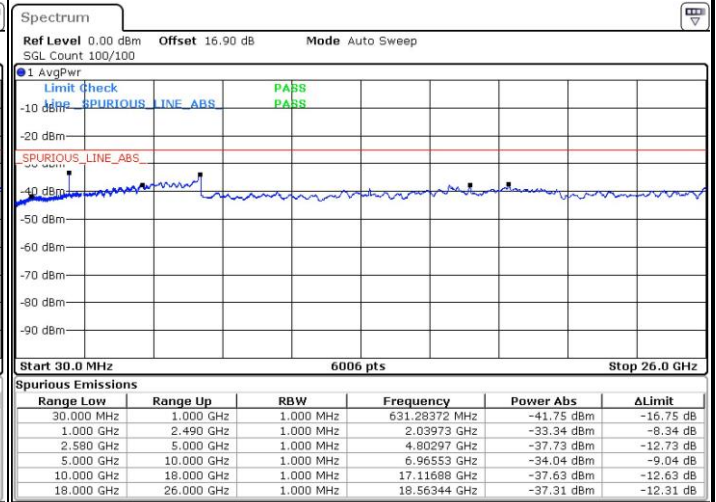
LTE Band 7 / 20MHz

Middle Channel / QPSK



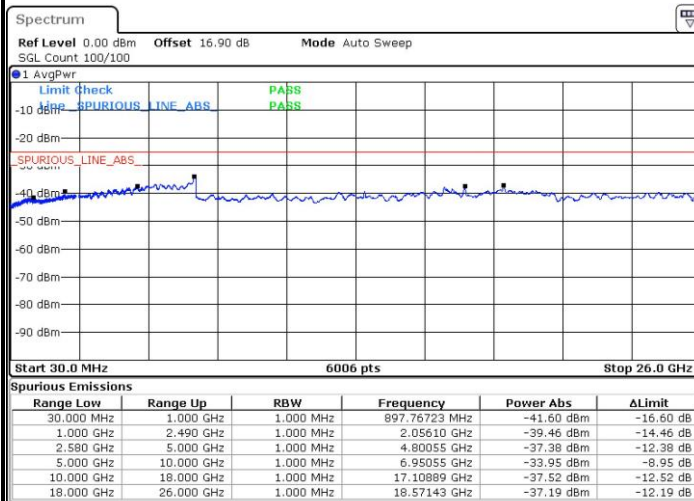
Date: 2.MAY.2015 11:33:09

Middle Channel / 16QAM



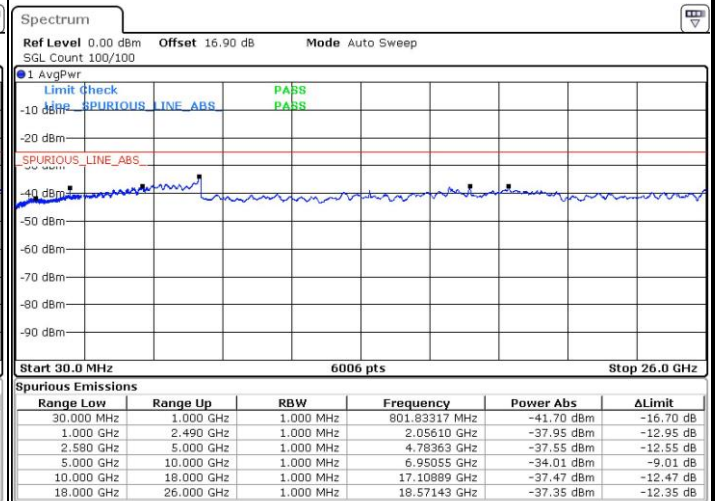
Date: 2.MAY.2015 11:34:19

Highest Channel / QPSK



Date: 2.MAY.2015 11:41:00

Highest Channel / 16QAM



Date: 2.MAY.2015 11:42:10

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0077	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0069	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0079	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0065	
20	Normal Voltage	0.0070	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage = 3.95V. ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 7 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	17.72	0.0592	23.47	0.2223
Middle		1	0	18.19	0.0659	23.88	0.2443
Highest		1	0	18.51	0.0710	23.87	0.2438
Lowest	16QAM	1	0	15.80	0.0380	21.37	0.1371
Middle		1	0	16.14	0.0411	21.85	0.1531
Highest		1	0	16.38	0.0435	21.62	0.1452
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	18.19	0.0659	23.70	0.2344
Middle		1	0	18.60	0.0724	24.23	0.2649
Highest		1	0	18.90	0.0776	23.84	0.2421
Lowest	16QAM	1	0	15.61	0.0364	21.49	0.1409
Middle		1	0	16.06	0.0404	21.99	0.1581
Highest		1	0	16.67	0.0465	21.70	0.1479
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	18.29	0.0675	23.39	0.2183
Middle		1	0	18.72	0.0745	24.05	0.2541
Highest		1	0	19.14	0.0820	23.96	0.2489
Lowest	16QAM	1	0	16.19	0.0416	21.58	0.1439
Middle		1	0	16.76	0.0474	21.94	0.1563
Highest		1	0	16.76	0.0474	21.51	0.1416
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	18.30	0.0676	23.80	0.2399
Middle		1	0	18.12	0.0649	24.23	0.2649
Highest		1	0	18.71	0.0743	24.39	0.2748
Lowest	16QAM	1	0	15.70	0.0372	21.58	0.1439
Middle		1	0	15.88	0.0387	22.03	0.1596
Highest		1	0	17.06	0.0508	22.60	0.1820
Limit	EIRP < 2W			Result		PASS	

Radiated Spurious Emission

LTE Band 7

LTE Band 7 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5000	-53.14	-25	-28.14	-78.07	-60.5	2.34	9.70	H
	7500	-51.73	-25	-26.73	-78.73	-61.1	2.43	11.80	H
	10000	-50.90	-25	-25.90	-78.88	-60.4	2.70	12.20	H
	5000	-51.14	-25	-26.14	-75.64	-58.5	2.34	9.70	V
	7500	-50.03	-25	-25.03	-78.58	-59.4	2.43	11.80	V
	10000	-48.60	-25	-23.60	-78.78	-58.1	2.70	12.20	V
Middle	5065	-52.87	-25	-27.87	-76.36	-60.2	2.37	9.70	H
	7598	-51.04	-25	-26.04	-78.61	-60.5	2.40	11.86	H
	10130	-51.14	-25	-26.14	-79.14	-60.7	2.70	12.25	H
	5065	-52.47	-25	-27.47	-76.72	-59.8	2.37	9.70	V
	7598	-49.74	-25	-24.74	-78.89	-59.2	2.40	11.86	V
	10130	-48.04	-25	-23.04	-78.87	-57.6	2.70	12.25	V
Highest	5136	-51.42	-25	-26.42	-75.03	-58.7	2.42	9.70	H
	7695	-50.15	-25	-25.15	-77.55	-59.7	2.37	11.92	H
	10260	-50.19	-25	-25.19	-78.65	-59.8	2.69	12.30	H
	5136	-47.32	-25	-22.32	-71.59	-54.6	2.42	9.70	V
	7695	-48.55	-25	-23.55	-77.51	-58.1	2.37	11.92	V
	10260	-47.79	-25	-22.79	-78.77	-57.4	2.69	12.30	V

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



LTE Band 7 / 10MHz / 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)
Lowest	5000	-53.14	-25	-28.14	-76.74	-60.5	2.34	9.70	H
	7500	-50.23	-25	-25.23	-76.82	-59.6	2.43	11.80	H
	10000	-51.10	-25	-26.10	-79.02	-60.6	2.70	12.20	H
	5000	-51.94	-25	-26.94	-76.12	-59.3	2.34	9.70	V
	7500	-50.43	-25	-25.43	-78.65	-59.8	2.43	11.80	V
	10000	-48.30	-25	-23.30	-78.72	-57.8	2.70	12.20	V
Middle	5060	-53.47	-25	-28.47	-76.87	-60.8	2.37	9.70	H
	7590	-51.25	-25	-26.25	-78.7	-60.7	2.40	11.85	H
	10120	-50.95	-25	-25.95	-78.86	-60.5	2.70	12.25	H
	5060	-51.97	-25	-26.97	-76.18	-59.3	2.37	9.70	V
	7590	-49.65	-25	-24.65	-78.66	-59.1	2.40	11.85	V
	10120	-48.65	-25	-23.65	-79.17	-58.2	2.70	12.25	V
Highest	5124	-50.31	-25	-25.31	-73.77	-57.6	2.41	9.70	H
	7680	-48.96	-25	-23.96	-76.49	-58.5	2.37	11.91	H
	10240	-50.90	-25	-25.90	-79.25	-60.5	2.69	12.30	H
	5124	-46.41	-25	-21.41	-70.63	-53.7	2.41	9.70	V
	7680	-48.66	-25	-23.66	-77.67	-58.2	2.37	11.91	V
	10240	-47.60	-25	-22.60	-79.21	-57.2	2.69	12.30	V

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



LTE Band 7 / 15MHz / 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)
Lowest	5004	-51.74	-25	-26.74	-75.29	-59.1	2.34	9.70	H
	7500	-50.53	-25	-25.53	-77.22	-59.9	2.43	11.80	H
	10000	-50.90	-25	-25.90	-78.68	-60.4	2.70	12.20	H
	5004	-51.24	-25	-26.24	-75.58	-58.6	2.34	9.70	V
	7500	-49.43	-25	-24.43	-78.09	-58.8	2.43	11.80	V
	10000	-48.60	-25	-23.60	-78.74	-58.1	2.70	12.20	V
Middle	5055	-54.07	-25	-29.07	-77.25	-61.4	2.37	9.70	H
	7583	-50.25	-25	-25.25	-77.66	-59.7	2.40	11.85	H
	10110	-50.75	-25	-25.75	-79.02	-60.3	2.70	12.24	H
	5052	-52.47	-25	-27.47	-75.88	-59.8	2.37	9.70	V
	7583	-49.45	-25	-24.45	-78.45	-58.9	2.40	11.85	V
	10110	-48.25	-25	-23.25	-79.1	-57.8	2.70	12.24	V
Highest	5112	-51.50	-25	-26.50	-74.81	-58.8	2.40	9.70	H
	7668	-49.07	-25	-24.07	-76.12	-58.6	2.38	11.90	H
	10220	-50.61	-25	-25.61	-79.13	-60.2	2.69	12.29	H
	5112	-46.30	-25	-21.30	-70.79	-53.6	2.40	9.70	V
	7665	-48.88	-25	-23.88	-77.91	-58.4	2.38	11.90	V
	10220	-48.01	-25	-23.01	-79.1	-57.6	2.69	12.29	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-52.64	-25	-27.64	-76.14	-60	2.34	9.70	H
	7500	-51.73	-25	-26.73	-78.4	-61.1	2.43	11.80	H
	10000	-50.90	-25	-25.90	-78.88	-60.4	2.70	12.20	H
	5004	-51.34	-25	-26.34	-75.79	-58.7	2.34	9.70	V
	7500	-50.33	-25	-25.33	-78.74	-59.7	2.43	11.80	V
	10000	-48.70	-25	-23.70	-79.12	-58.2	2.70	12.20	V
Middle	5052	-53.77	-25	-28.77	-77.25	-61.1	2.37	9.70	H
	7575	-50.76	-25	-25.76	-78.27	-60.2	2.41	11.85	H
	10100	-51.06	-25	-26.06	-79.12	-60.6	2.70	12.24	H
	5052	-51.07	-25	-26.07	-75.04	-58.4	2.37	9.70	V
	7575	-49.76	-25	-24.76	-78.89	-59.2	2.41	11.85	V
	10100	-48.16	-25	-23.16	-78.93	-57.7	2.70	12.24	V
Highest	5100	-52.79	-25	-27.79	-76.32	-60.1	2.39	9.70	H
	7650	-50.39	-25	-25.39	-77.98	-59.9	2.38	11.89	H
	10200	-50.62	-25	-25.62	-79.11	-60.2	2.70	12.28	H
	5100	-46.79	-25	-21.79	-71.18	-54.1	2.39	9.70	V
	7650	-48.89	-25	-23.89	-78.06	-58.4	2.38	11.89	V
	10200	-48.22	-25	-23.22	-79.23	-57.8	2.70	12.28	V

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