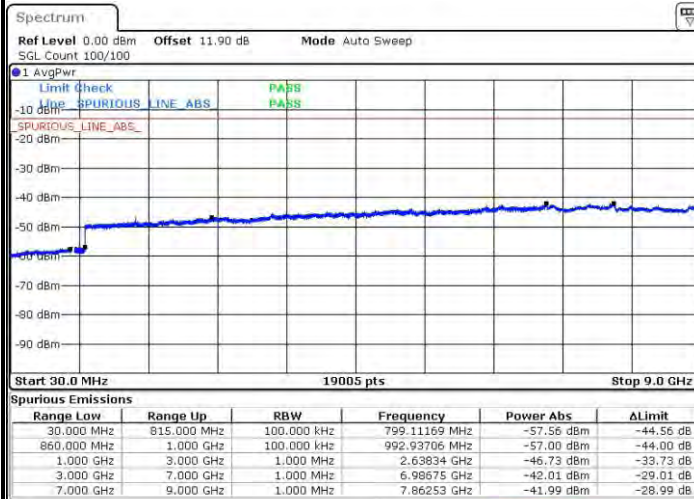




Conducted Spurious Emission

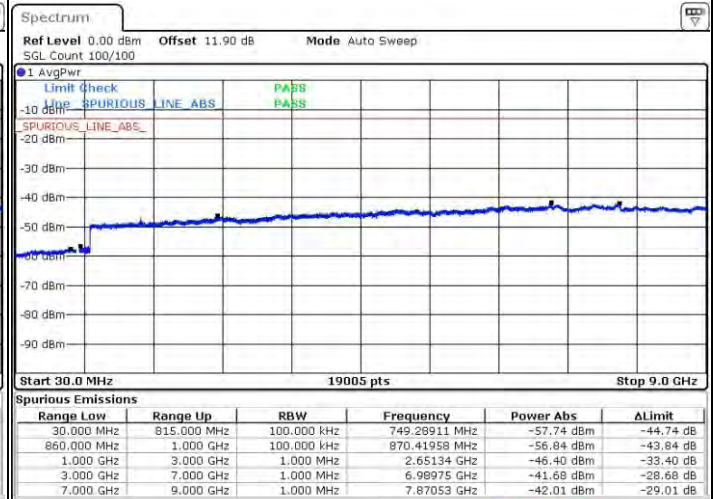
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



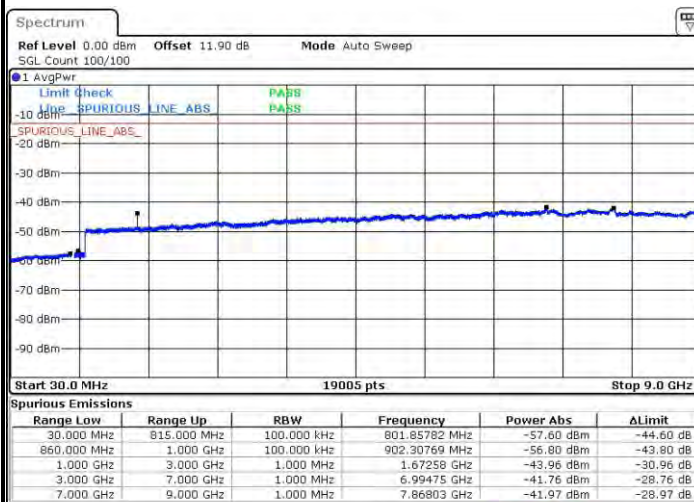
Date: 15.MAY.2015 22:59:16

Lowest Channel / 16QAM



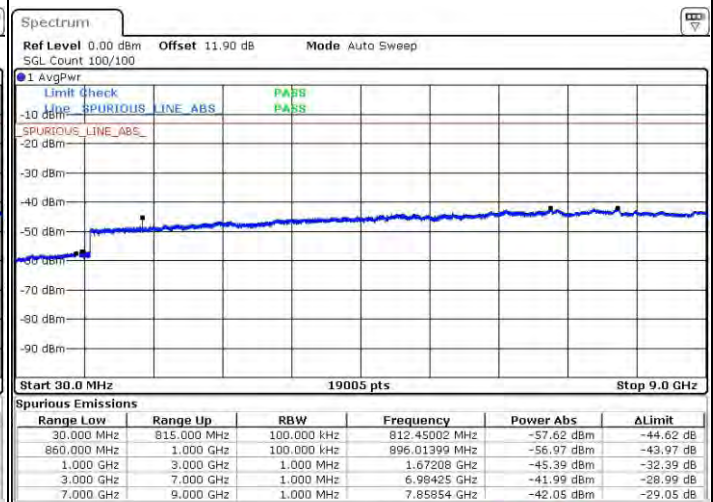
Date: 15.MAY.2015 23:00:26

Middle Channel / QPSK



Date: 15.MAY.2015 23:02:24

Middle Channel / 16QAM

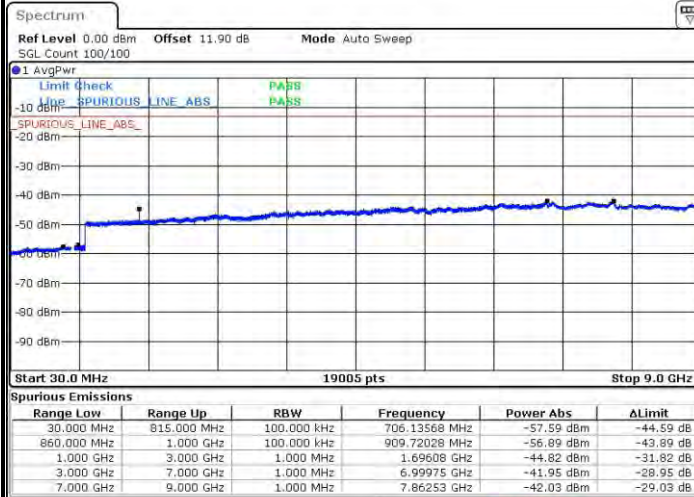


Date: 15.MAY.2015 23:03:34



LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 15.MAY.2015 23:13:20

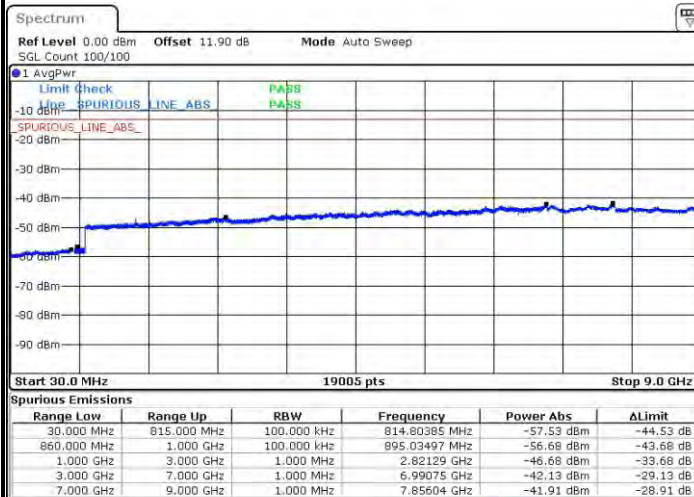
Highest Channel / 16QAM



Date: 15.MAY.2015 23:14:30

LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 15.MAY.2015 21:56:29

Lowest Channel / 16QAM

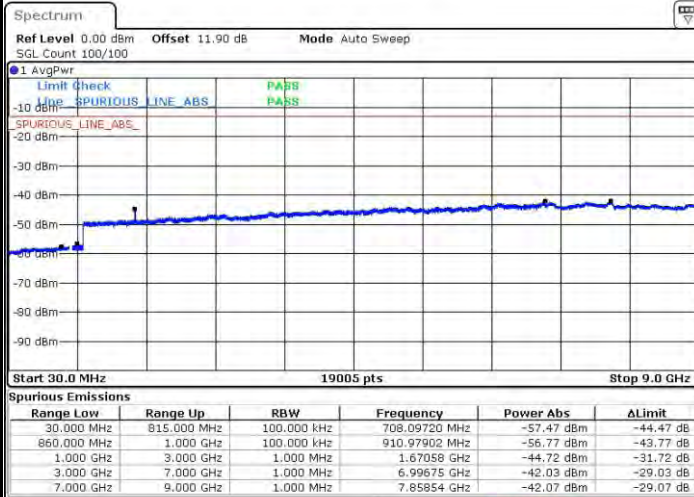


Date: 15.MAY.2015 21:57:39



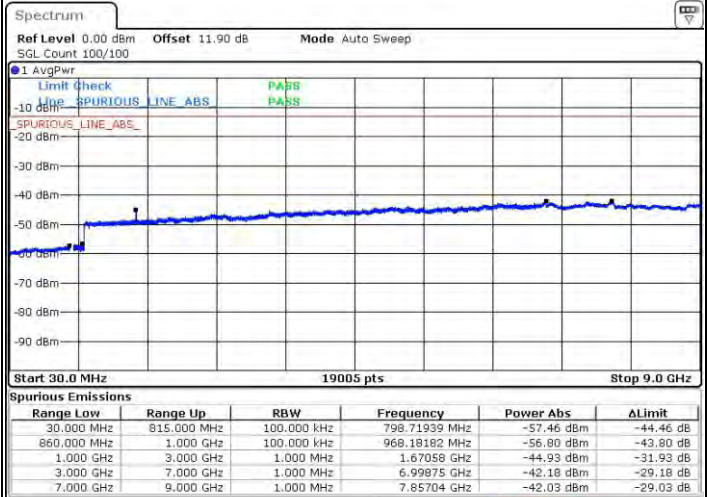
LTE Band 5 / 3MHz

Middle Channel / QPSK



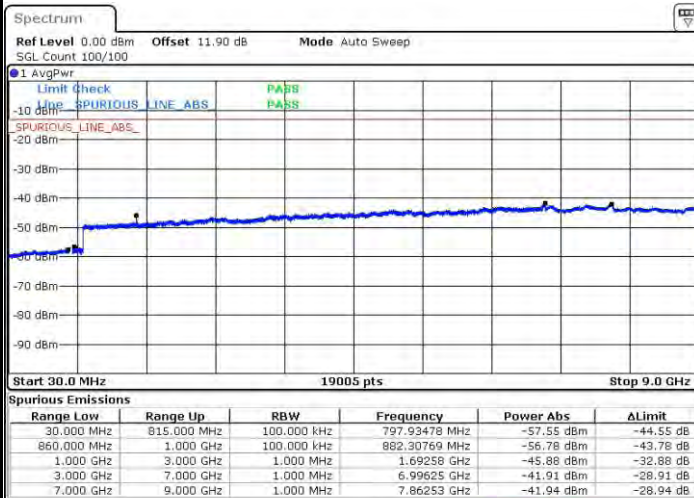
Date: 15.MAY.2015 21:59:36

Middle Channel / 16QAM



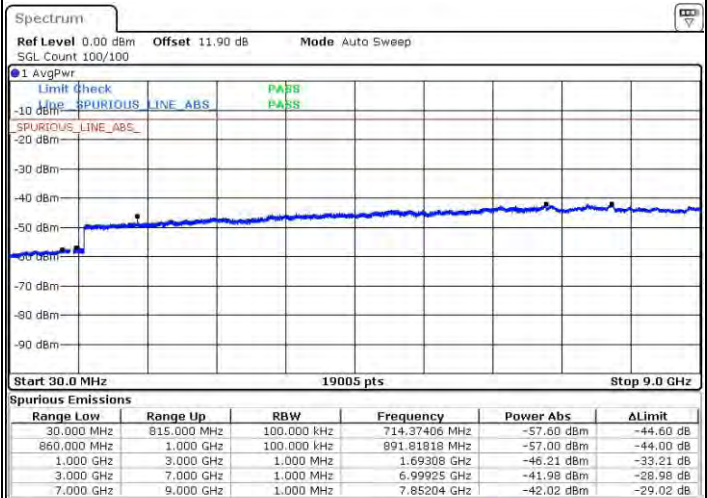
Date: 15.MAY.2015 22:00:46

Highest Channel / QPSK



Date: 15.MAY.2015 22:07:22

Highest Channel / 16QAM

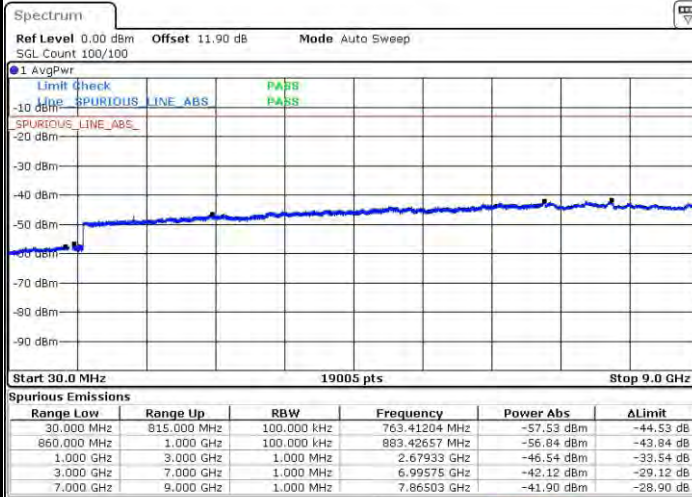


Date: 15.MAY.2015 22:08:32



LTE Band 5 / 5MHz

Lowest Channel / QPSK



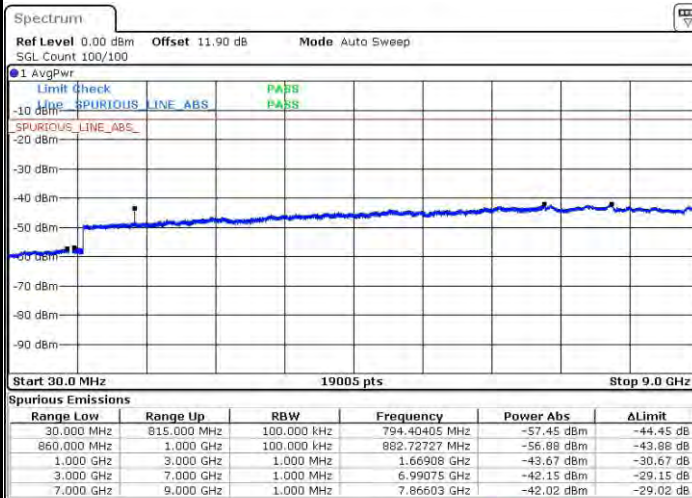
Date: 15.MAY.2015 22:15:22

Lowest Channel / 16QAM



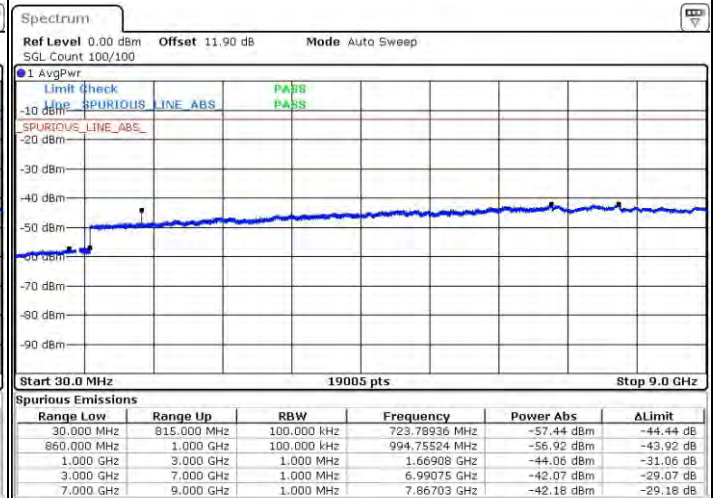
Date: 15.MAY.2015 22:16:32

Middle Channel / QPSK



Date: 15.MAY.2015 22:18:29

Middle Channel / 16QAM

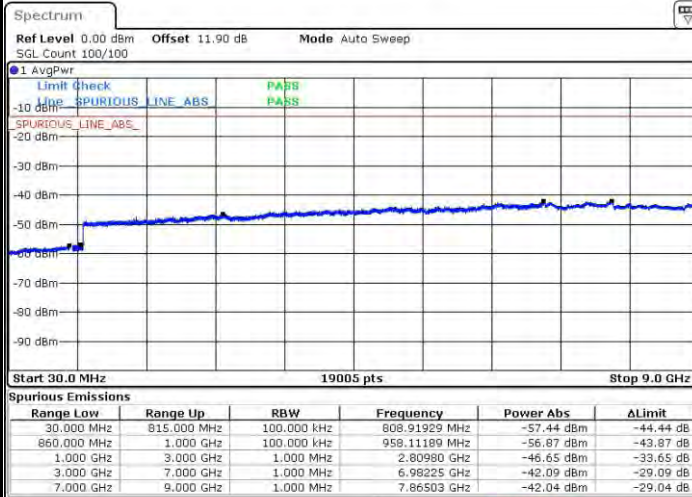


Date: 15.MAY.2015 22:19:39



LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 15.MAY.2015 22:26:16

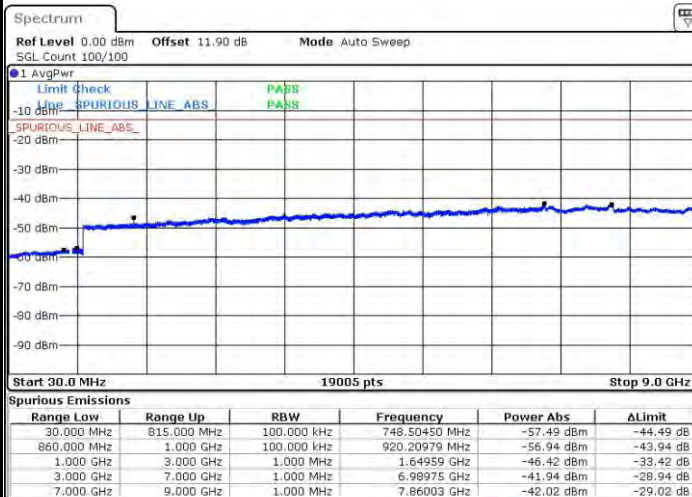
Highest Channel / 16QAM



Date: 15.MAY.2015 22:27:26

LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 15.MAY.2015 22:39:49

Lowest Channel / 16QAM

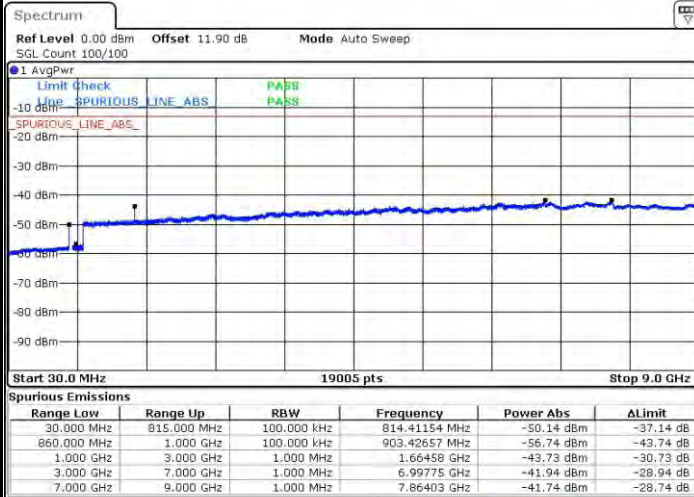


Date: 15.MAY.2015 22:40:59



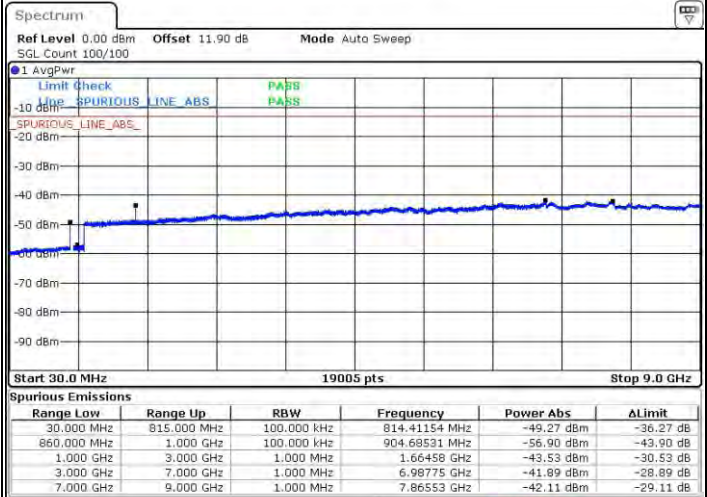
LTE Band 5 / 10MHz

Middle Channel / QPSK



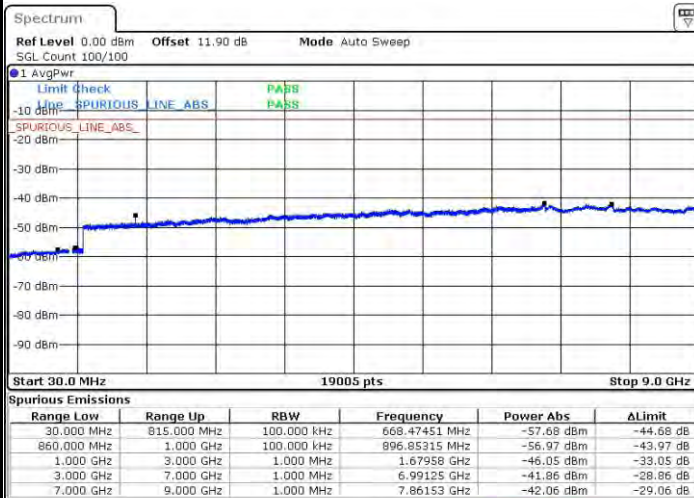
Date: 15.MAY.2015 22:42:56

Middle Channel / 16QAM



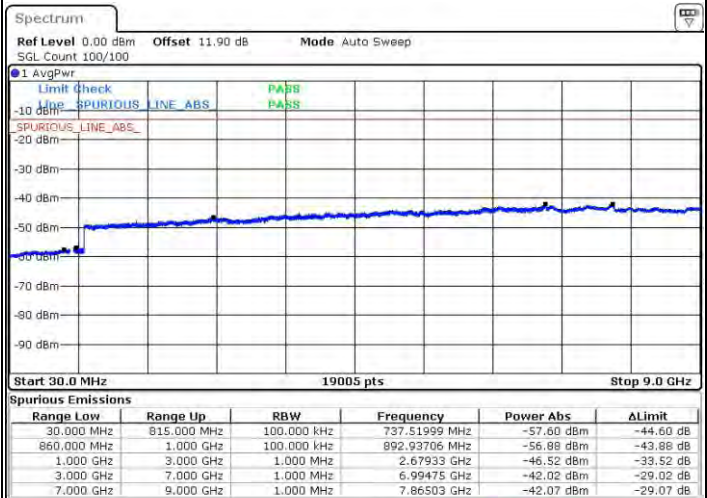
Date: 15.MAY.2015 22:44:06

Highest Channel / QPSK



Date: 15.MAY.2015 22:50:43

Highest Channel / 16QAM



Date: 15.MAY.2015 22:51:53

**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	0.0129	PASS
40	Normal Voltage	0.0152	
30	Normal Voltage	0.0143	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0148	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0128	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0127	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	5.42	5.74	6.38	PASS
Middle CH	4.49	5.28	5.94	6.32	
Highest CH	4.38	5.19	5.80	6.12	

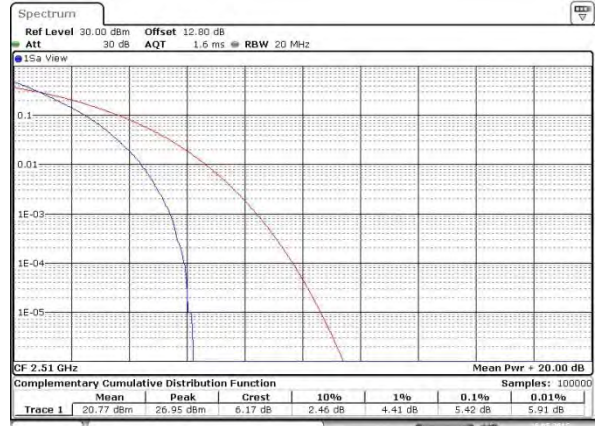


LTE Band 7 / 20MHz / QPSK

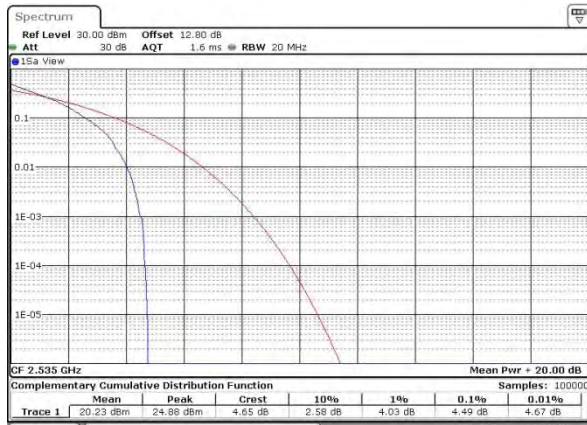
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



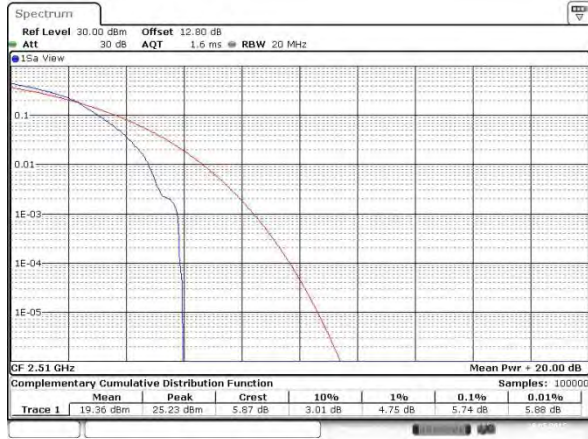
Highest Channel / Full RB



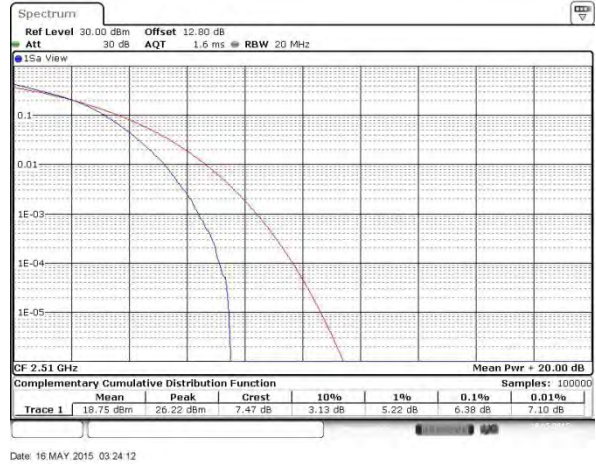


LTE Band 7 / 20MHz / 16QAM

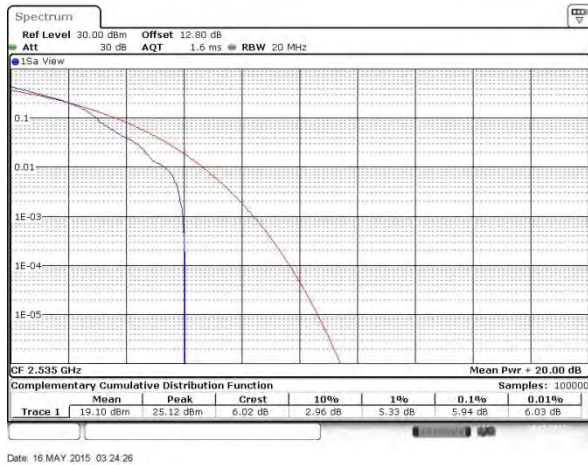
Lowest Channel / 1RB



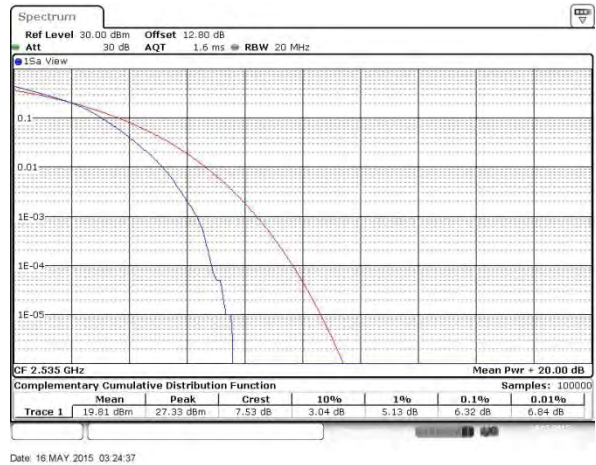
Lowest Channel / Full RB



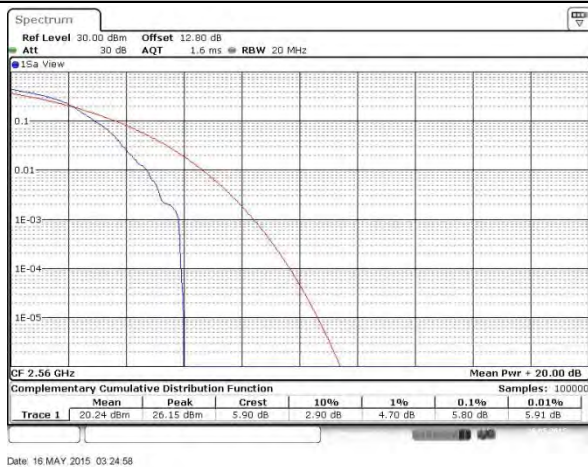
Middle Channel / 1RB



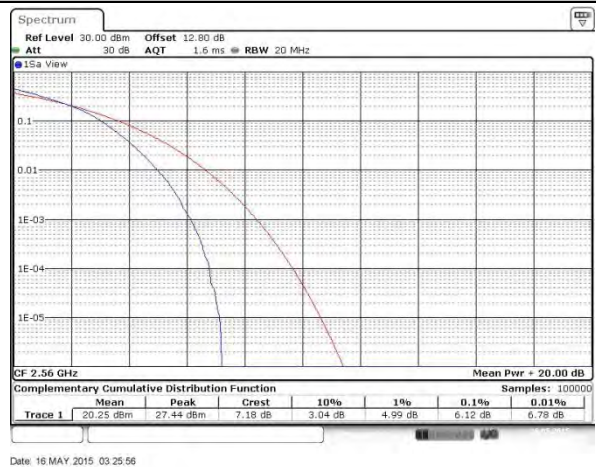
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





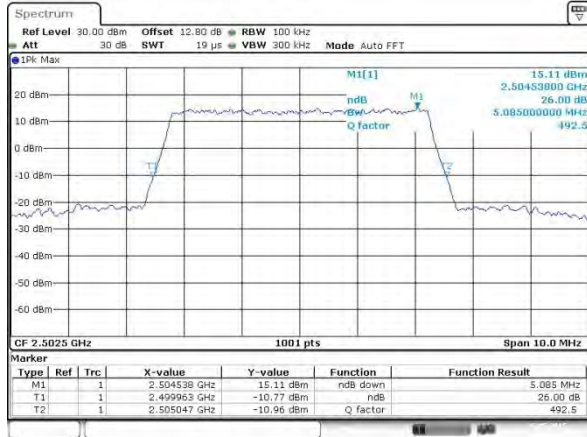
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.09	5.09	9.99	9.97	14.81	14.90	20.42	20.58
Middle CH	-	-	-	-	5.08	5.10	10.09	10.03	14.72	14.78	20.50	20.46
Highest CH	-	-	-	-	5.11	5.07	9.93	9.99	14.66	14.69	20.38	20.18

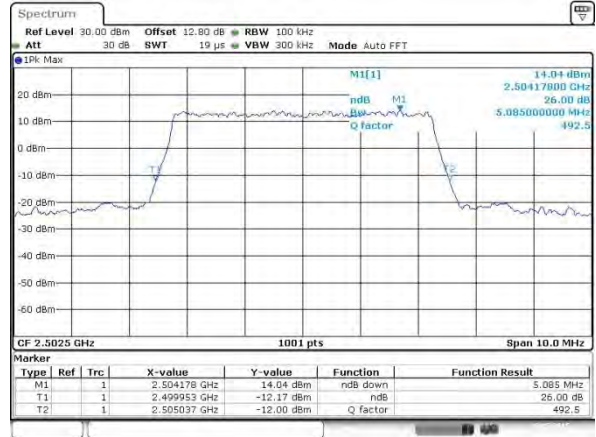


LTE Band 7

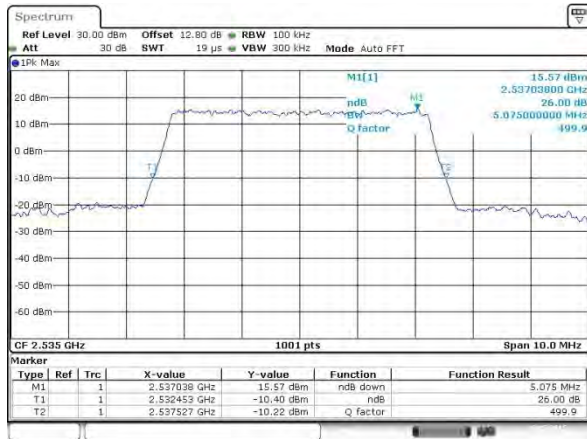
Lowest Channel / 5MHz / QPSK



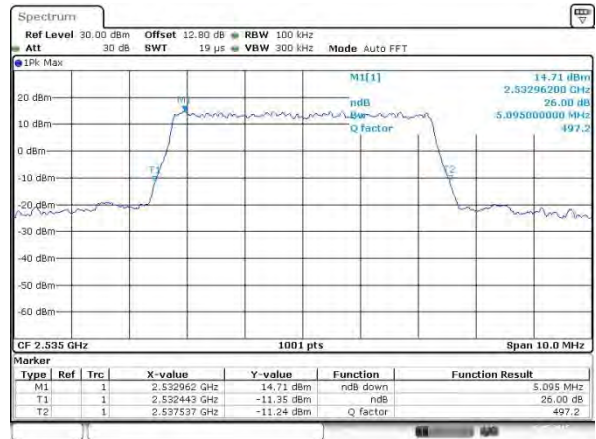
Lowest Channel / 5MHz / 16QAM



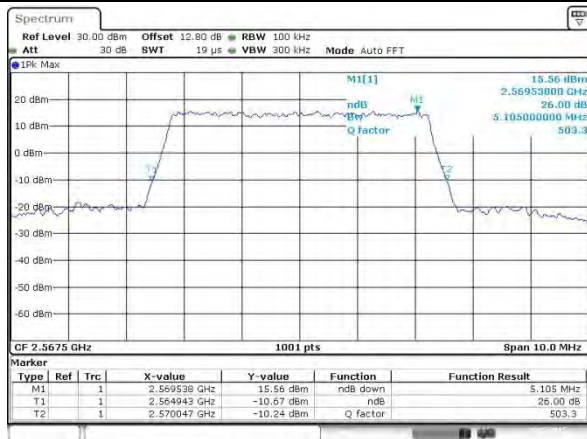
Middle Channel / 5MHz / QPSK



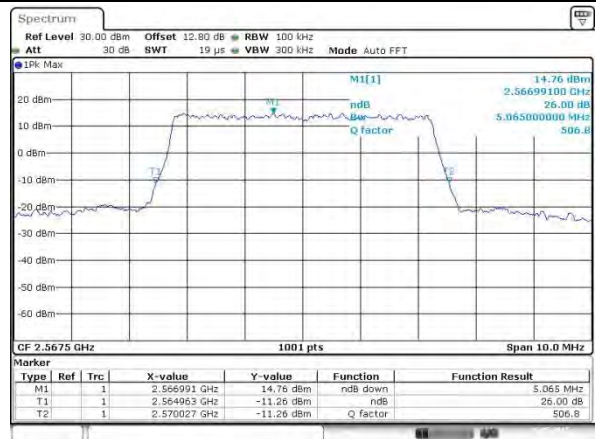
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



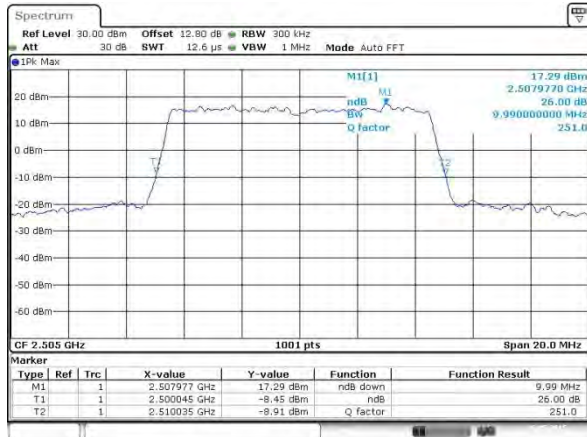
Highest Channel / 5MHz / 16QAM



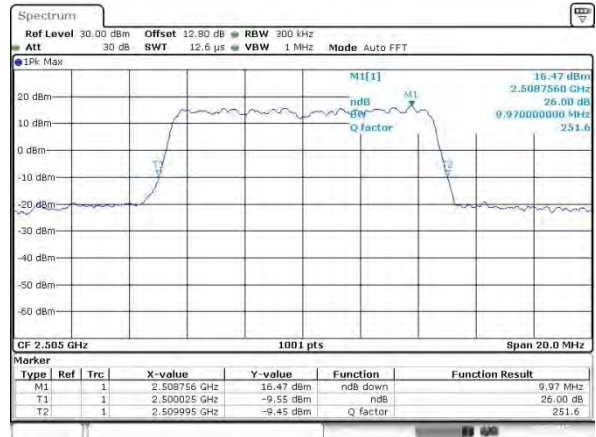


LTE Band 7

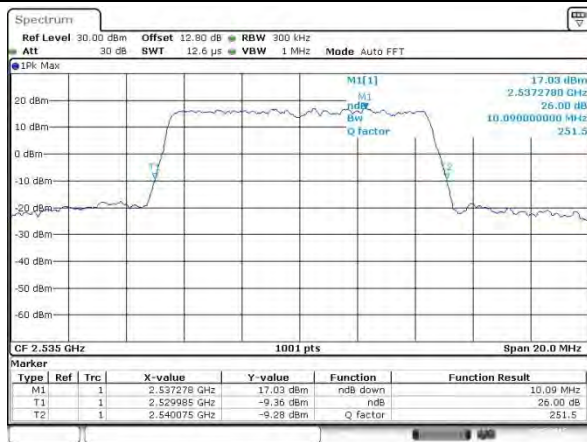
Lowest Channel / 10MHz / QPSK



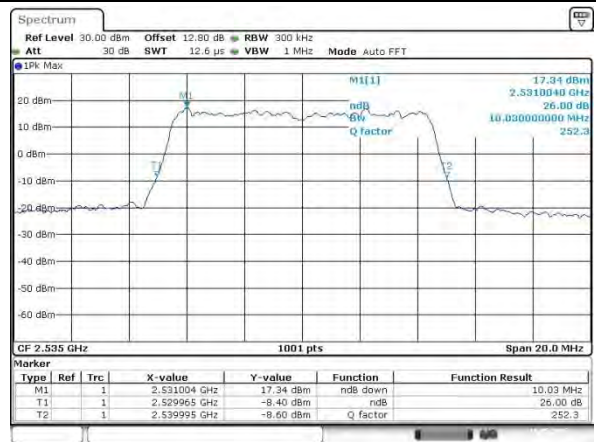
Lowest Channel / 10MHz / 16QAM



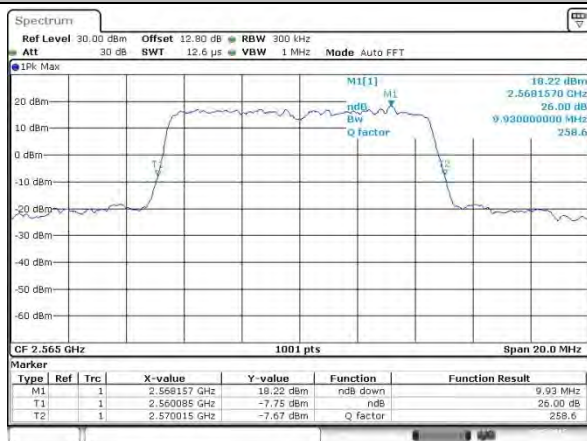
Middle Channel / 10MHz / QPSK



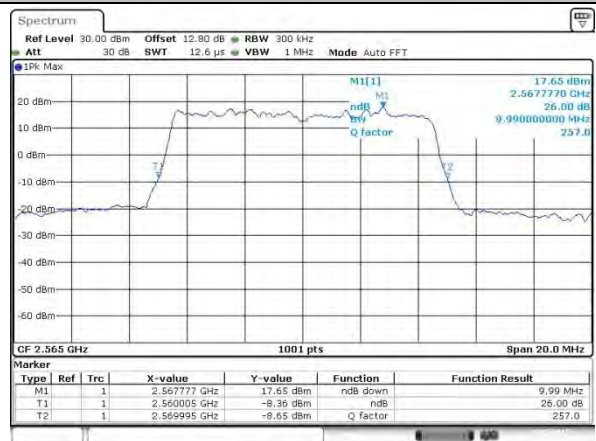
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



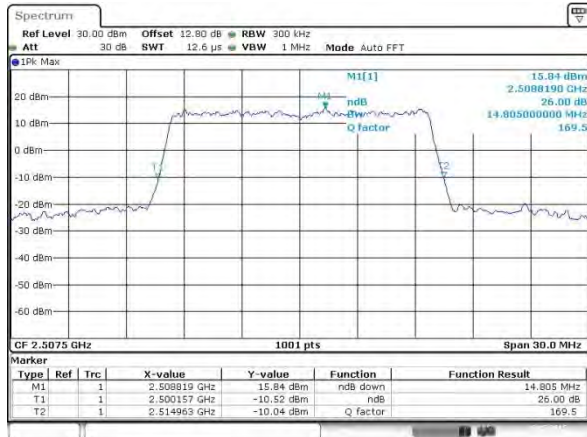
Highest Channel / 10MHz / 16QAM



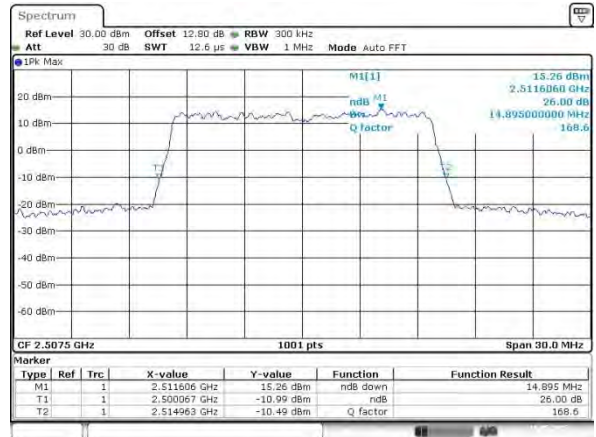


LTE Band 7

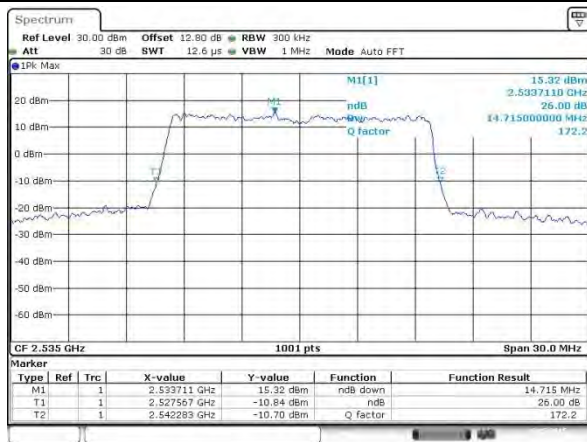
Lowest Channel / 15MHz / QPSK



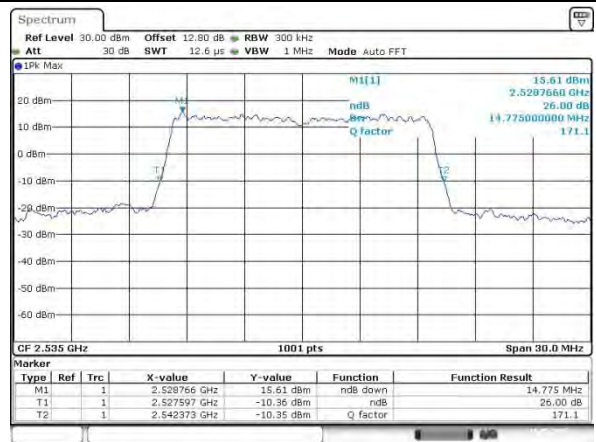
Lowest Channel / 15MHz / 16QAM



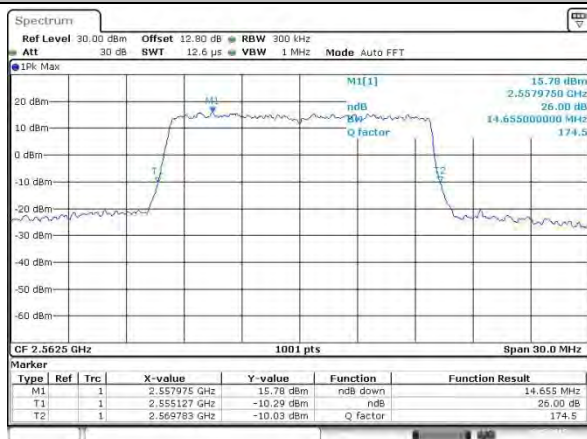
Middle Channel / 15MHz / QPSK



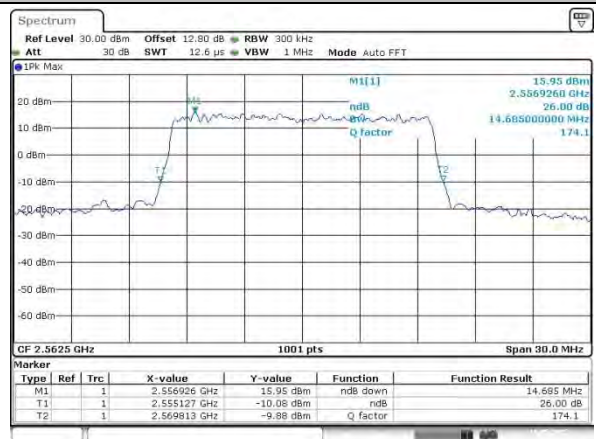
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



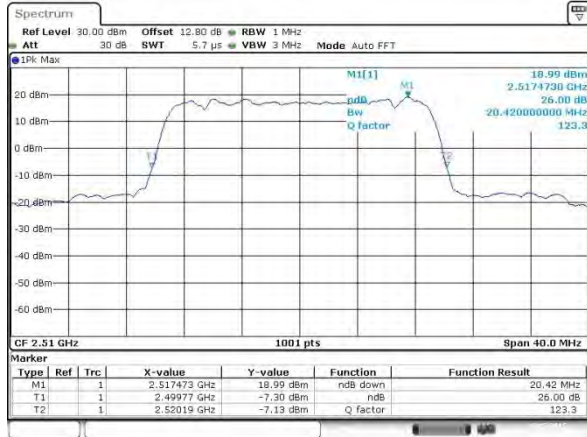
Highest Channel / 15MHz / 16QAM





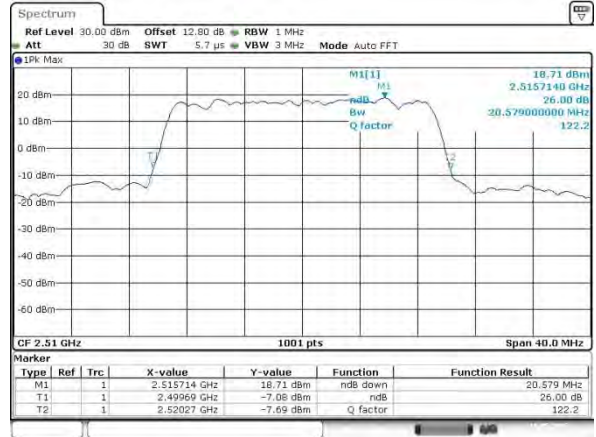
LTE Band 7

Lowest Channel / 20MHz / QPSK



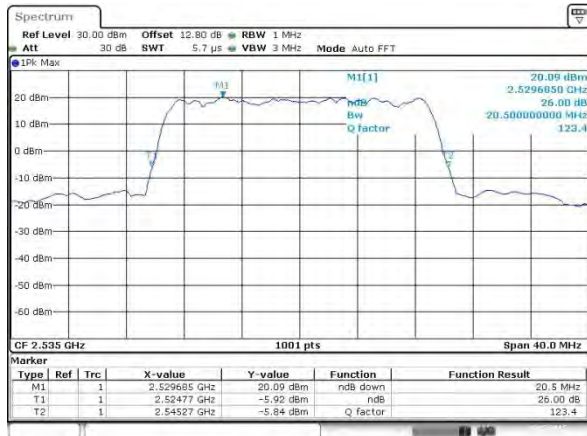
Date: 16 MAY 2015 03:02:34

Lowest Channel / 20MHz / 16QAM



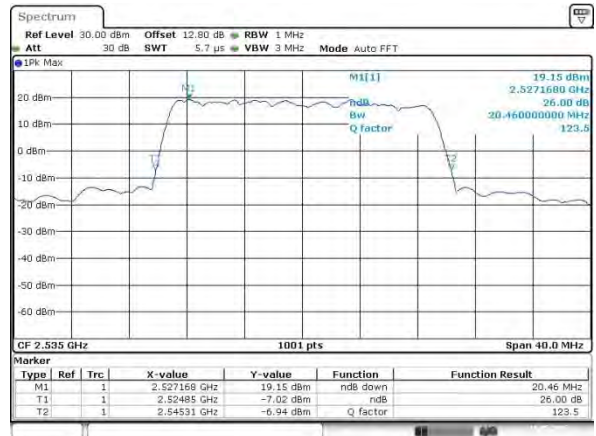
Date: 16 MAY 2015 03:02:46

Middle Channel / 20MHz / QPSK



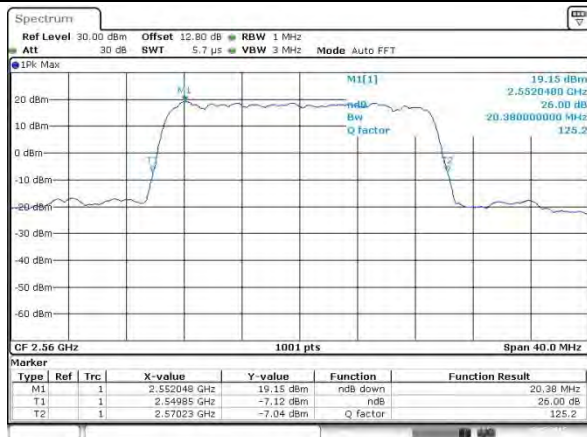
Date: 16 MAY 2015 03:11:54

Middle Channel / 20MHz / 16QAM



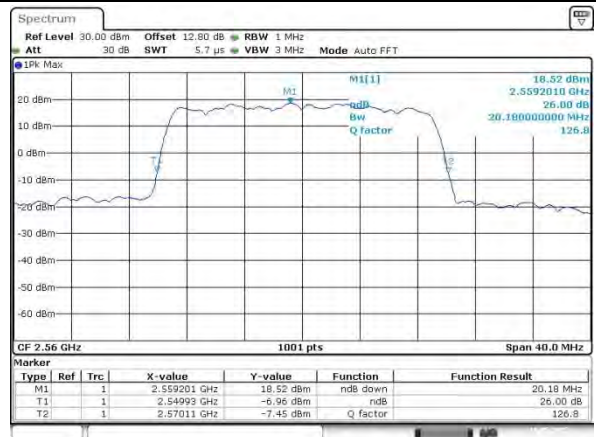
Date: 16 MAY 2015 03:12:06

Highest Channel / 20MHz / QPSK



Date: 16 MAY 2015 03:15:01

Highest Channel / 20MHz / 16QAM



Date: 16 MAY 2015 03:15:13



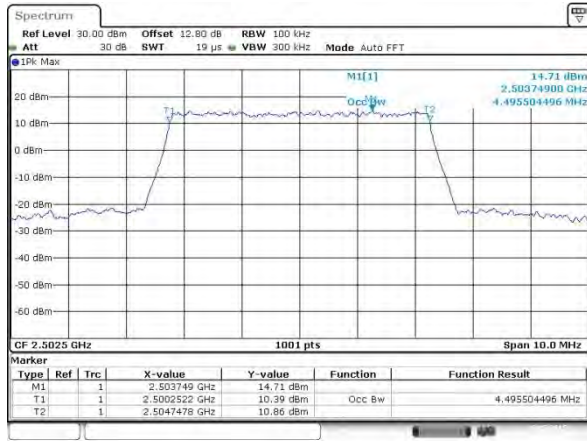
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	9.05	9.05	13.46	13.49	18.50	18.50
Middle CH	-	-	-	-	4.51	4.51	9.07	9.01	13.49	13.49	18.42	18.42
Highest CH	-	-	-	-	4.50	4.50	9.05	9.05	13.46	13.46	18.34	18.34

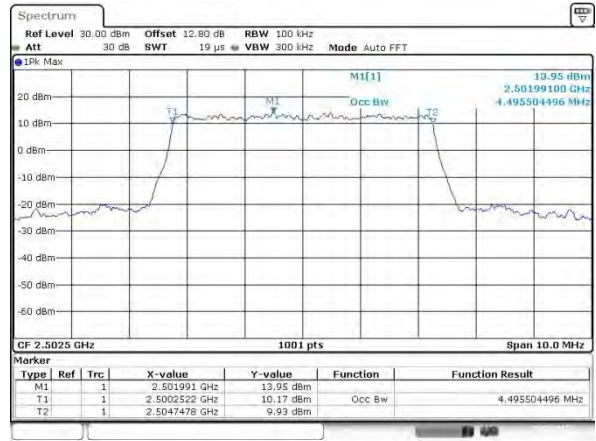


LTE Band 7

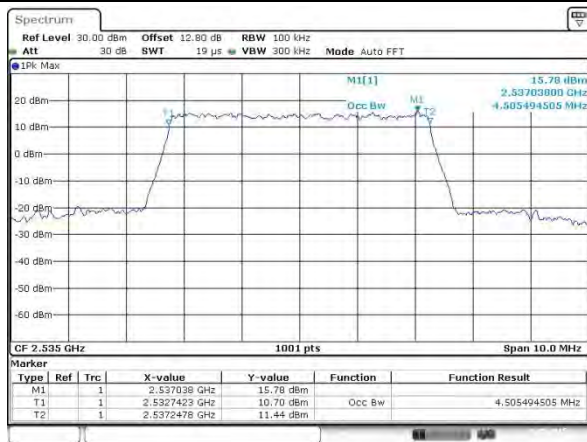
Lowest Channel / 5MHz / QPSK



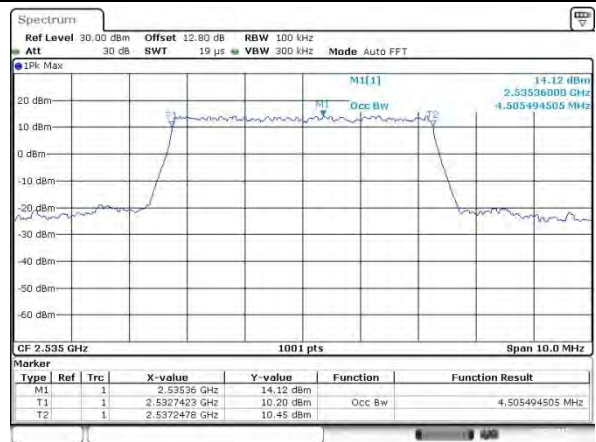
Lowest Channel / 5MHz / 16QAM



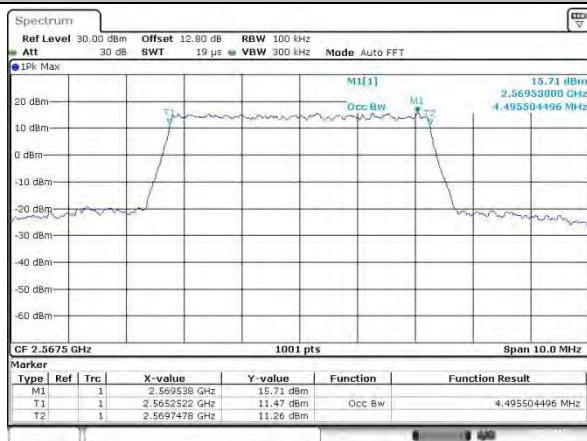
Middle Channel / 5MHz / QPSK



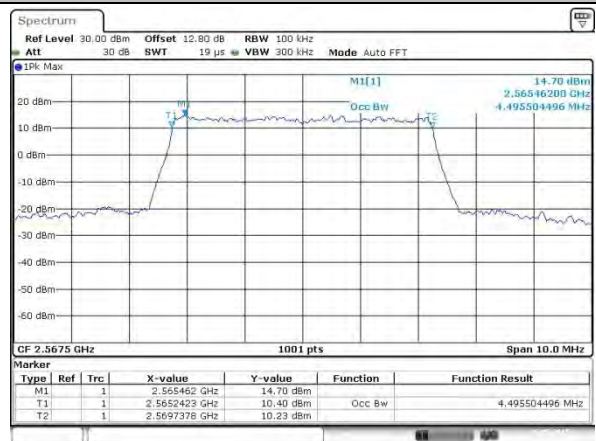
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



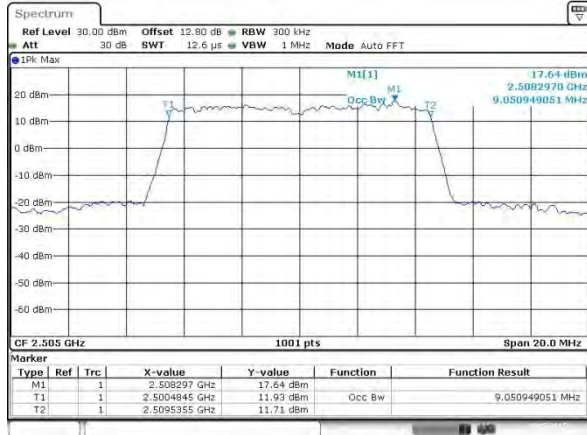
Highest Channel / 5MHz / 16QAM



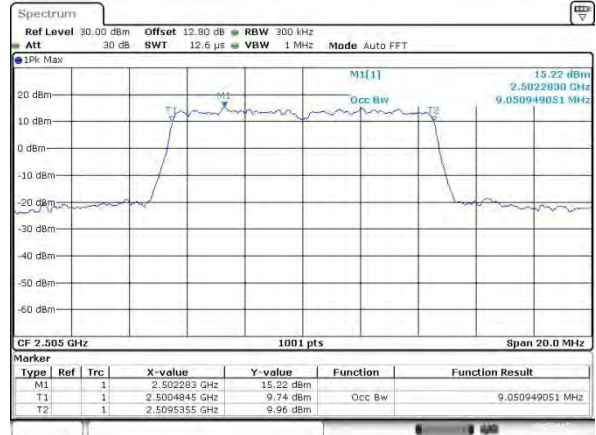


LTE Band 7

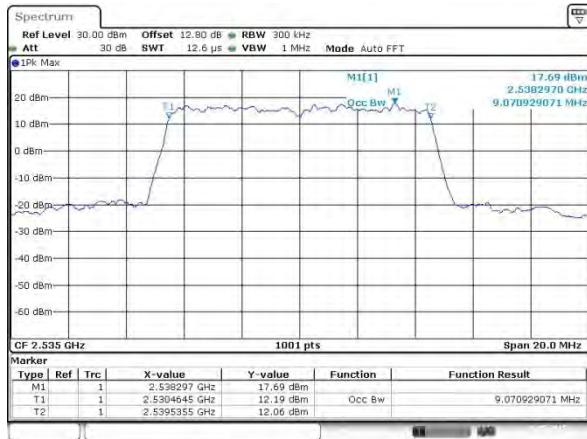
Lowest Channel / 10MHz / QPSK



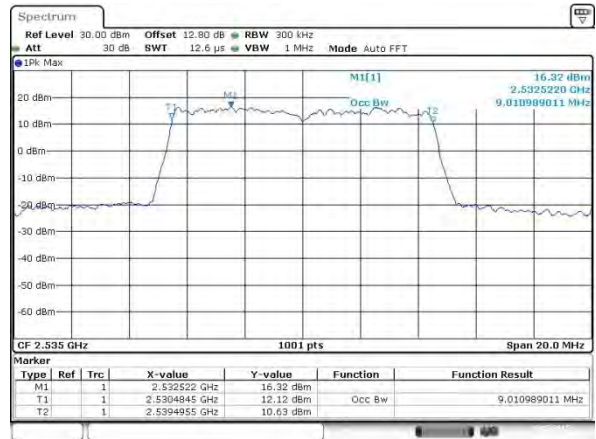
Lowest Channel / 10MHz / 16QAM



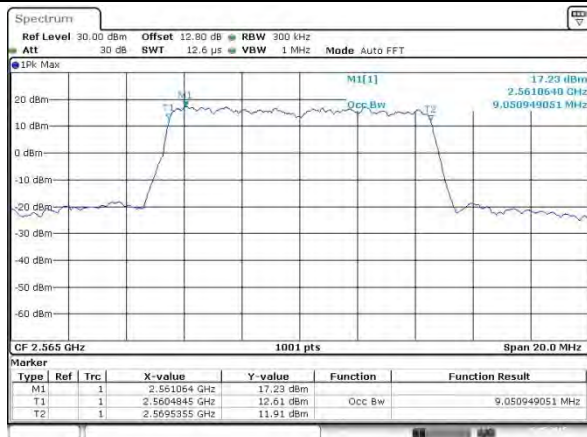
Middle Channel / 10MHz / QPSK



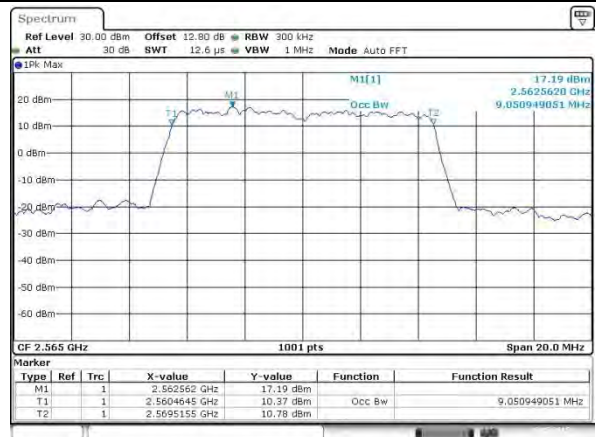
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



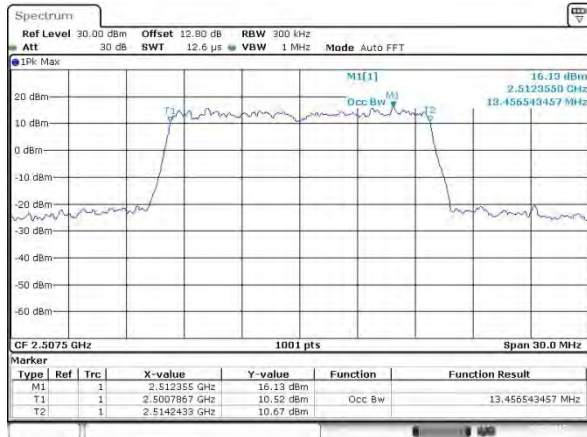
Highest Channel / 10MHz / 16QAM



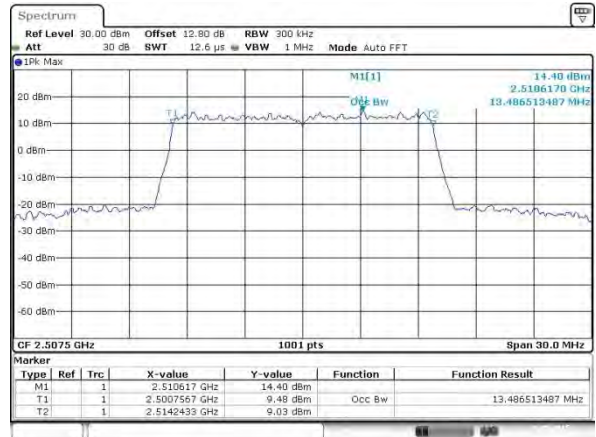


LTE Band 7

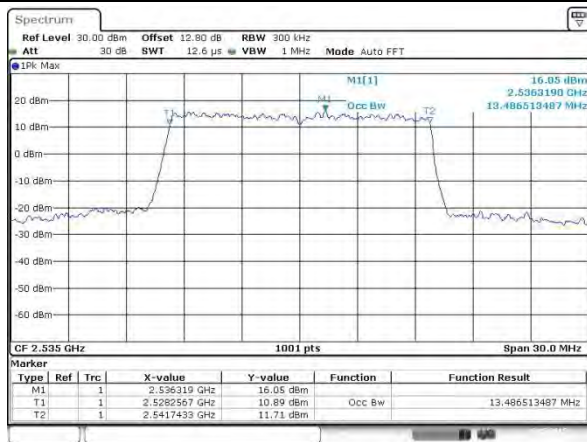
Lowest Channel / 15MHz / QPSK



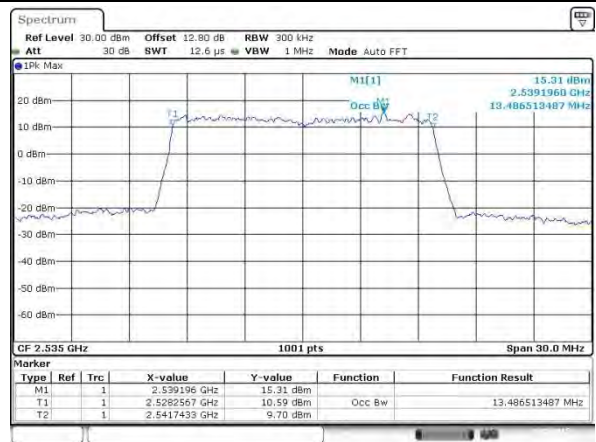
Lowest Channel / 15MHz / 16QAM



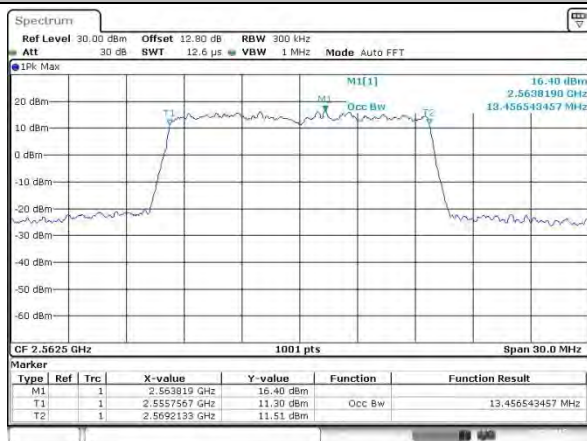
Middle Channel / 15MHz / QPSK



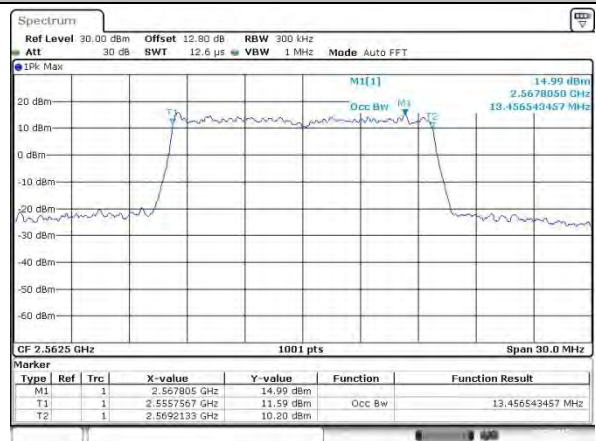
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



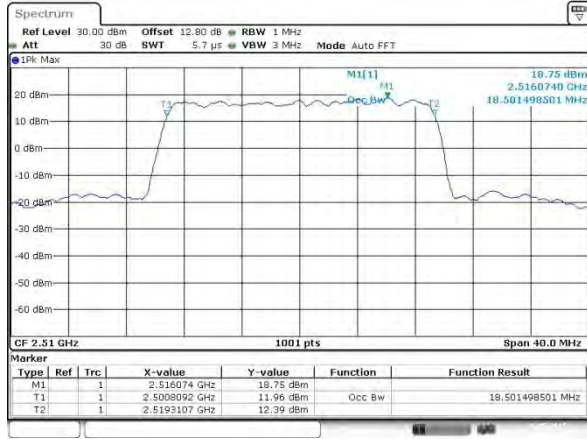
Highest Channel / 15MHz / 16QAM



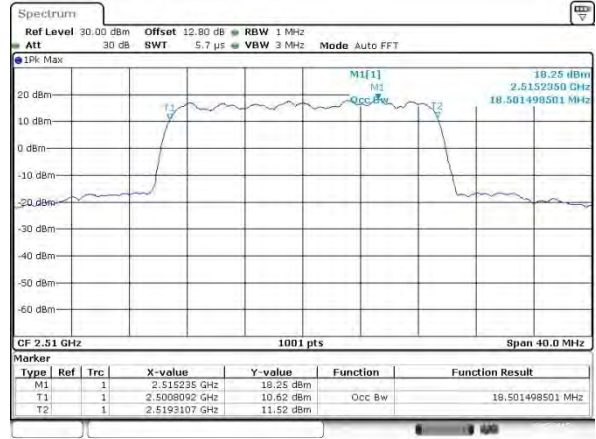


LTE Band 7

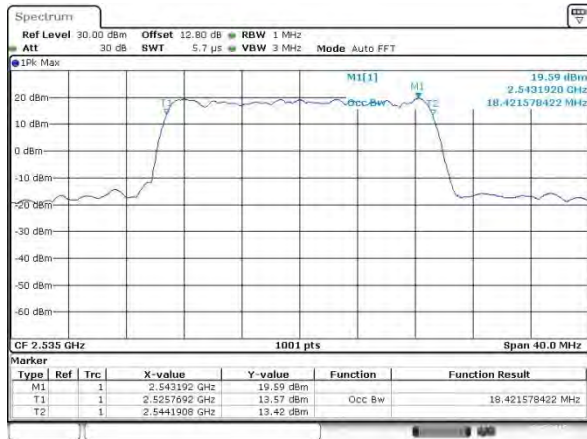
Lowest Channel / 20MHz / QPSK



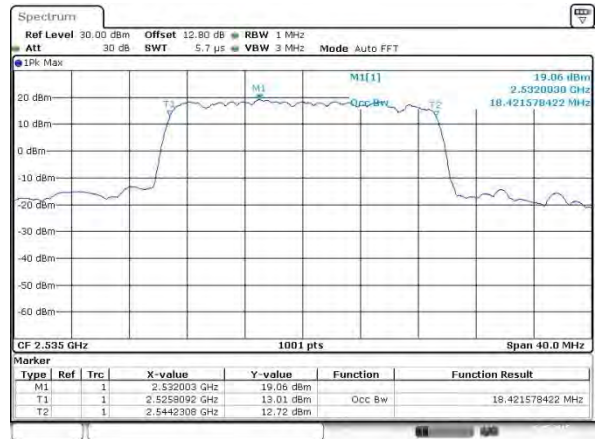
Lowest Channel / 20MHz / 16QAM



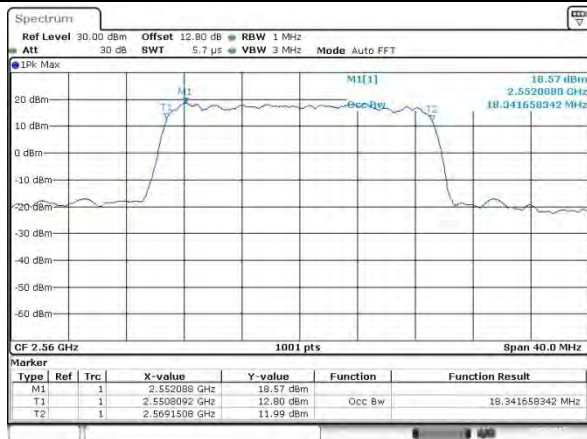
Middle Channel / 20MHz / QPSK



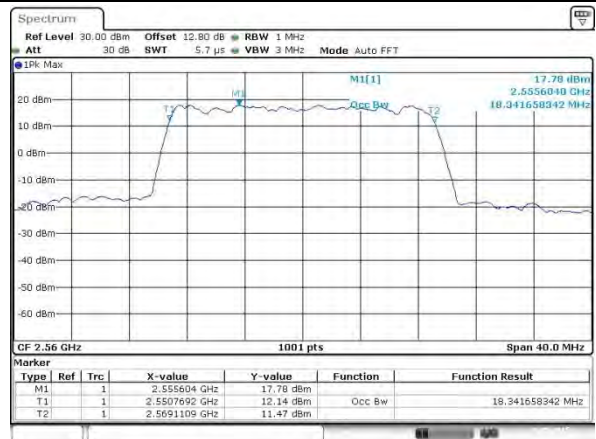
Middle Channel / 20MHz / 16QAM

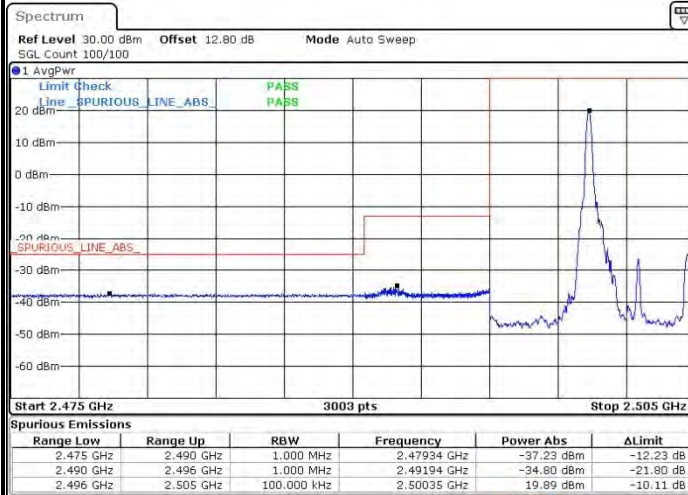
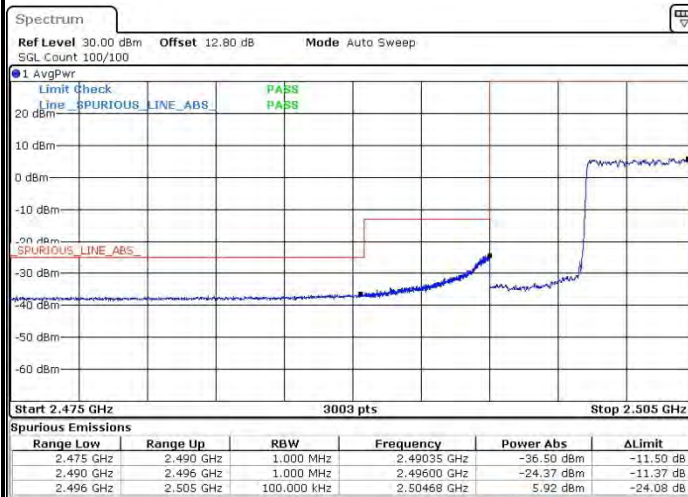


Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

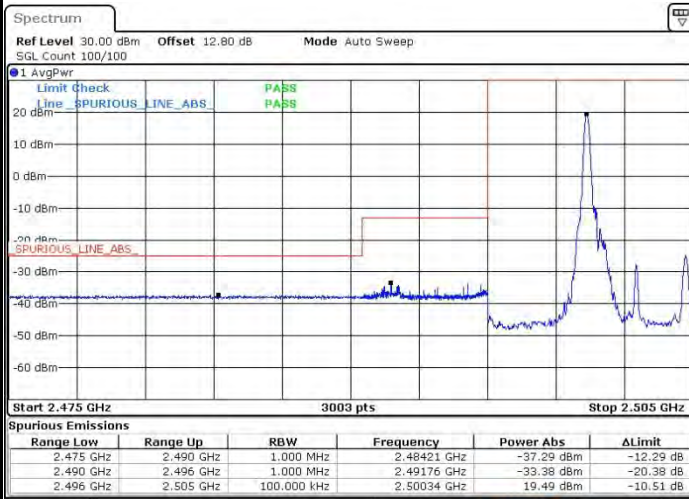


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



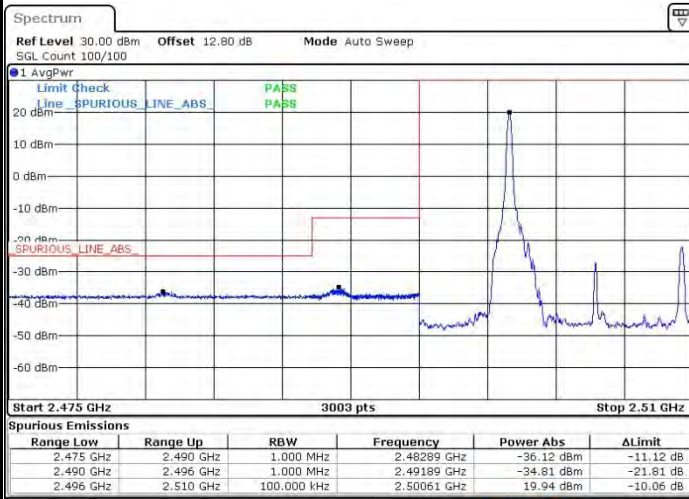
Highest Band Edge / Full RB





LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



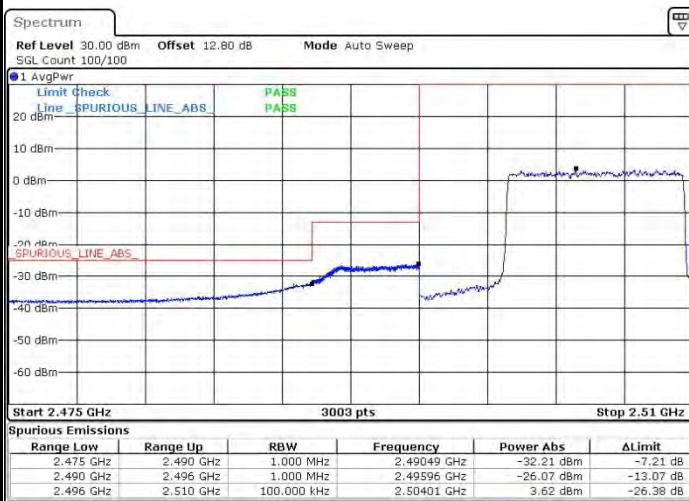
Date: 16 MAY 2015 02:28:40

Highest Band Edge / 1 RB



Date: 16 MAY 2015 02:37:32

Lowest Band Edge / Full RB



Date: 16 MAY 2015 02:29:00

Highest Band Edge / Full RB

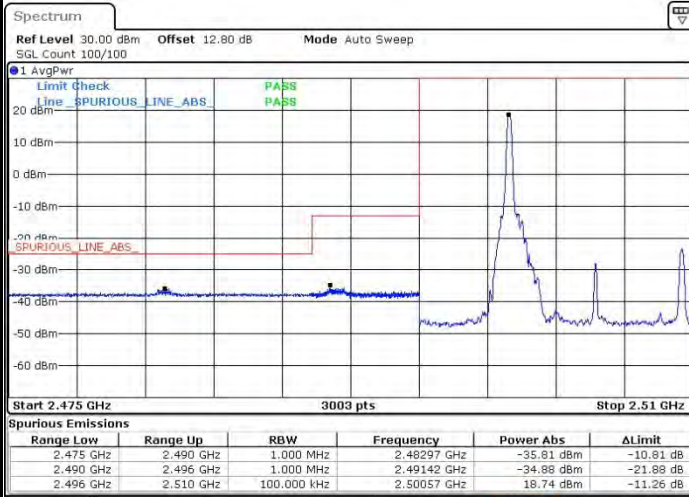


Date: 16 MAY 2015 02:39:51



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



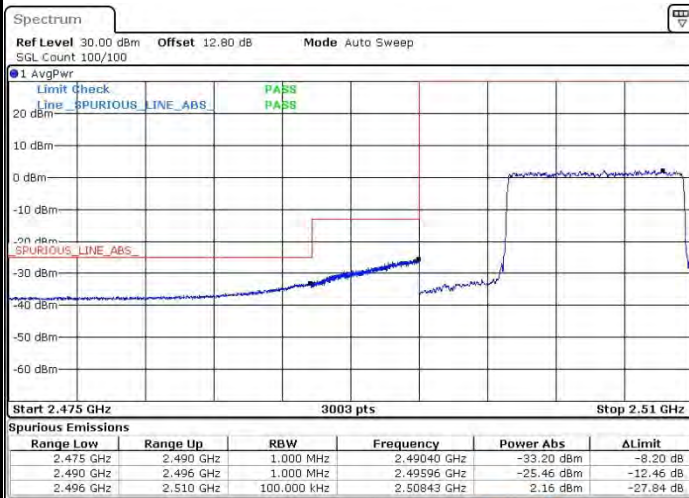
Date: 16 MAY 2015 02:27:50

Highest Band Edge / 1 RB



Date: 16 MAY 2015 02:38:41

Lowest Band Edge / Full RB



Date: 16 MAY 2015 02:30:09

Highest Band Edge / Full RB

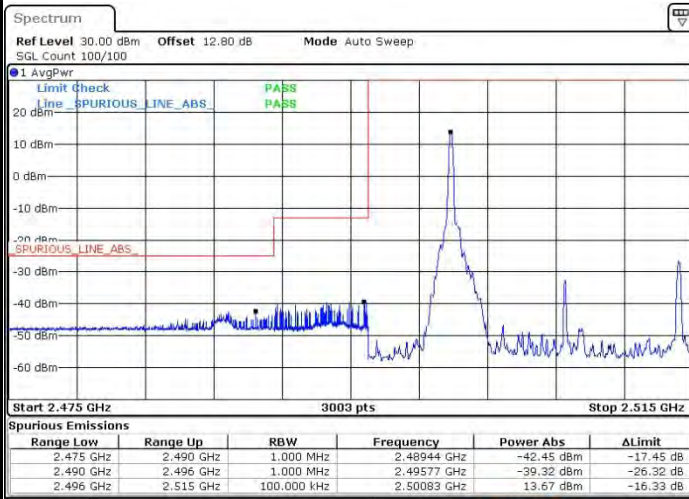


Date: 16 MAY 2015 02:41:01

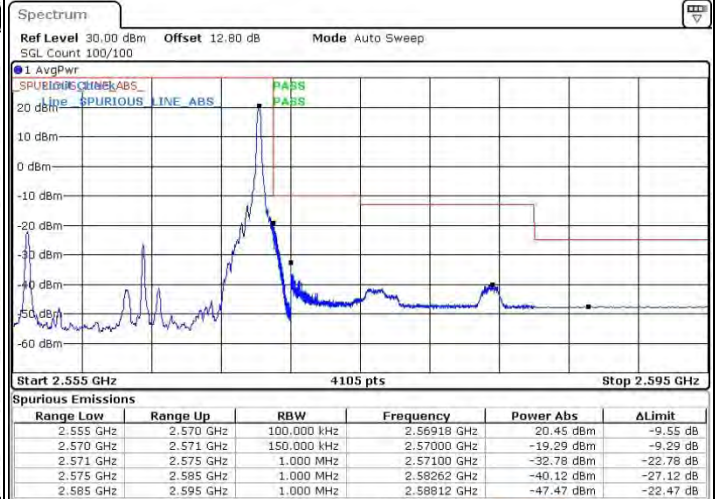


LTE Band 7 / 15MHz / QPSK

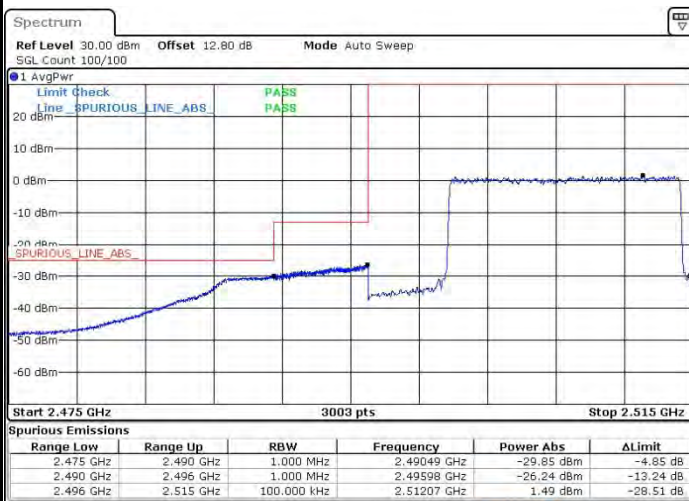
Lowest Band Edge / 1 RB



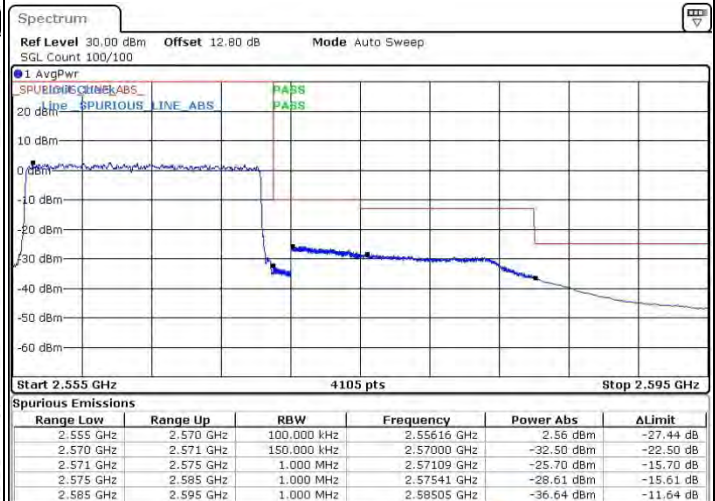
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



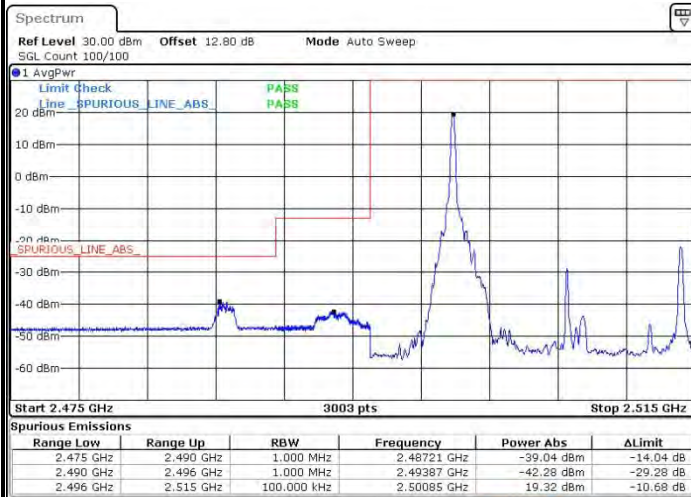
Highest Band Edge / Full RB





LTE Band 7 / 15MHz / 16QAM

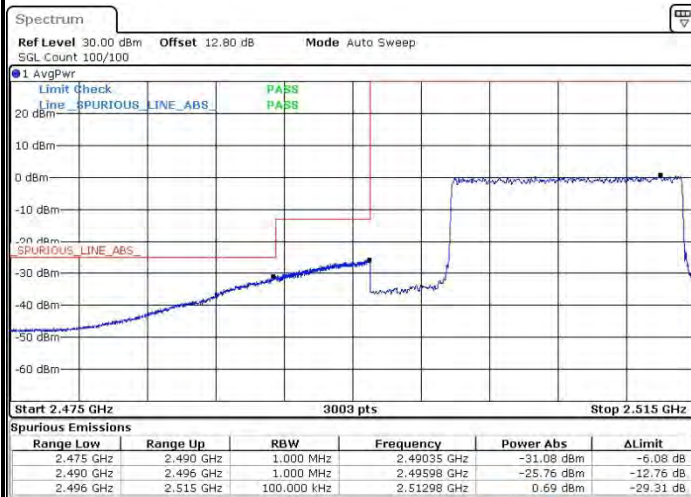
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



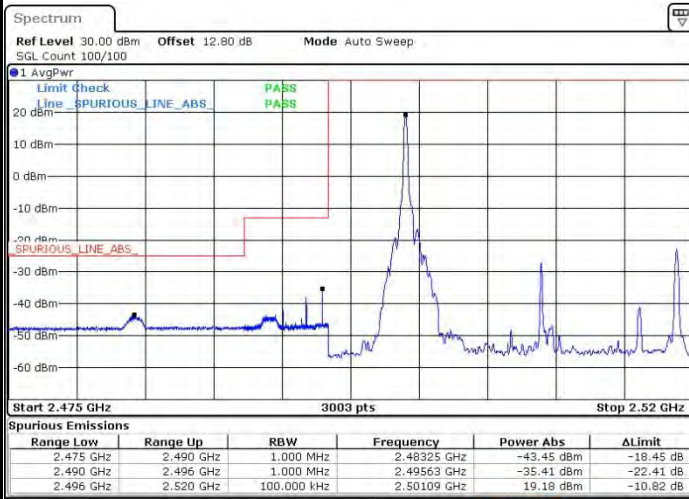
Highest Band Edge / Full RB



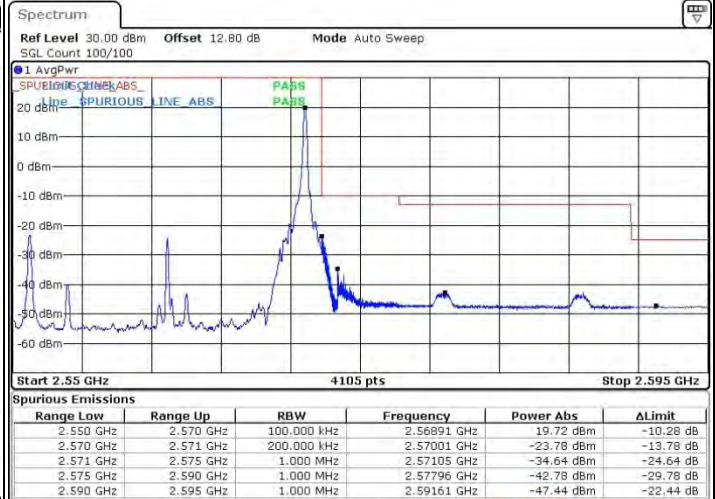


LTE Band 7 / 20MHz / QPSK

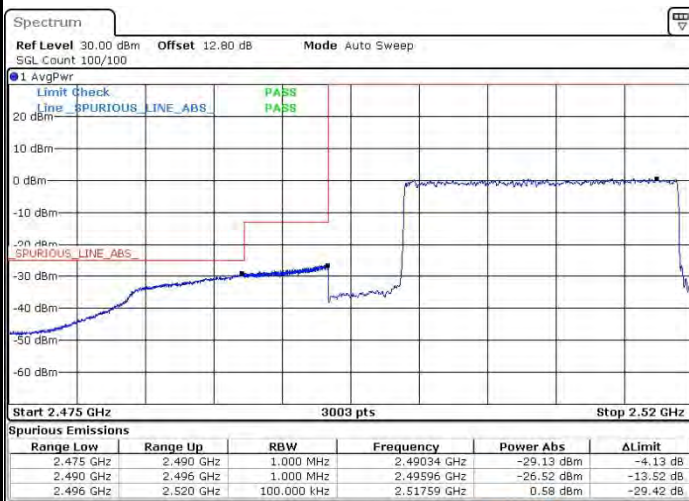
Lowest Band Edge / 1 RB



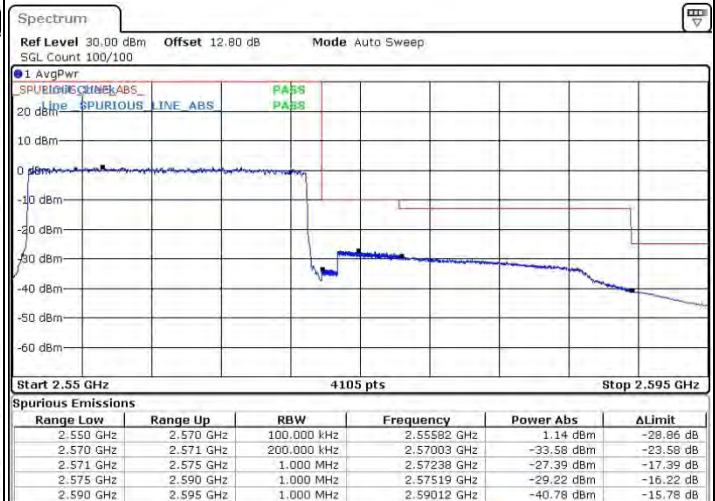
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



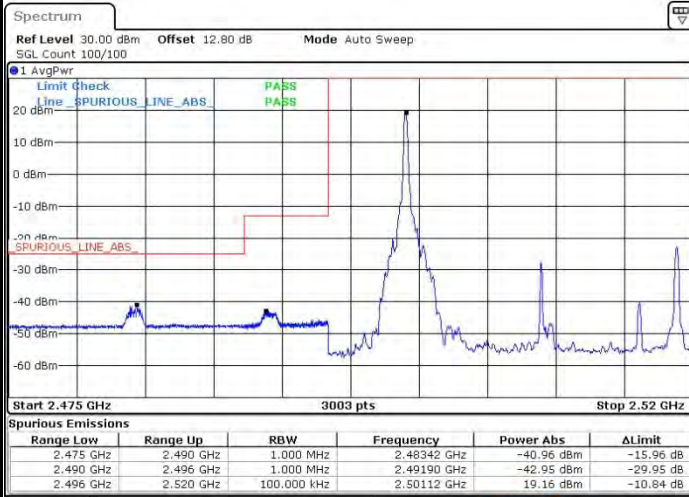
Highest Band Edge / Full RB





LTE Band 7 / 20MHz / 16QAM

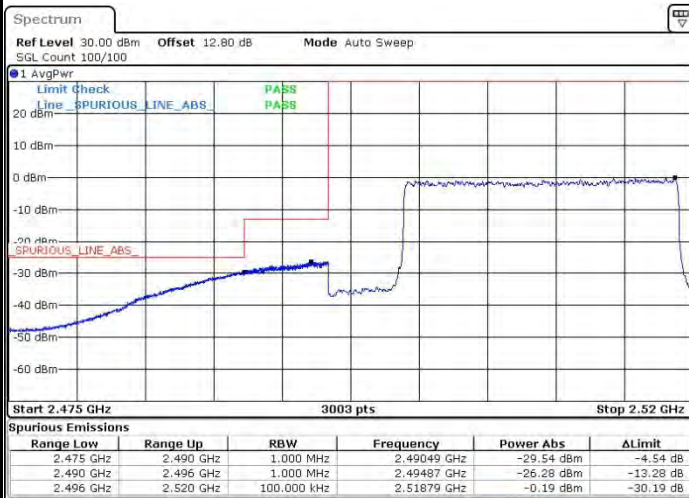
Lowest Band Edge / 1 RB



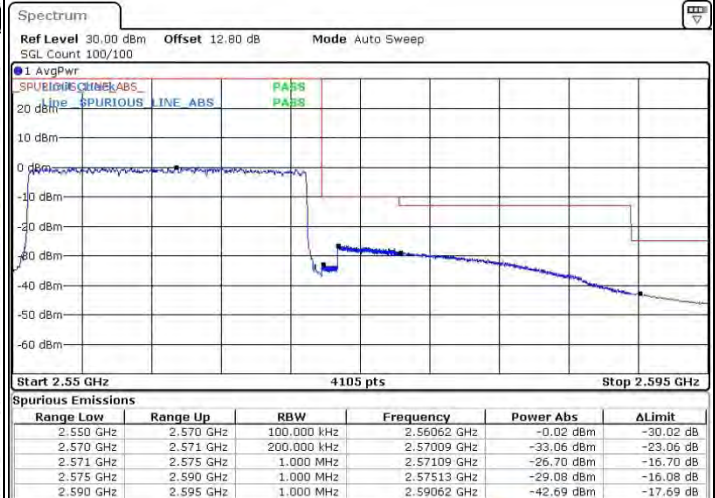
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

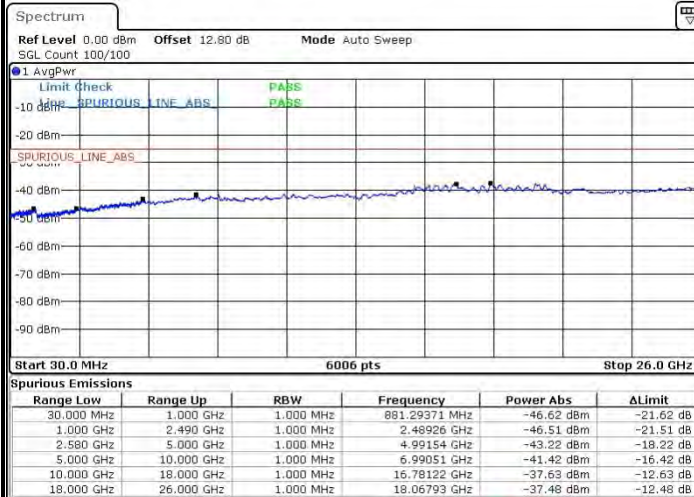




Conducted Spurious Emission

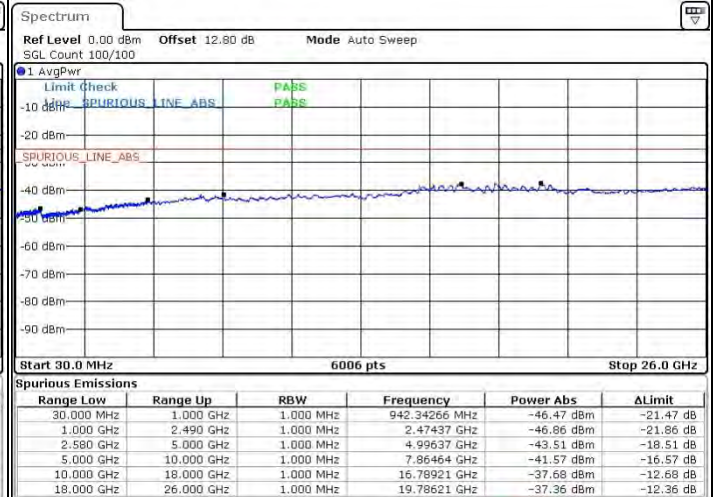
LTE Band 7 / 5MHz

Lowest Channel / QPSK



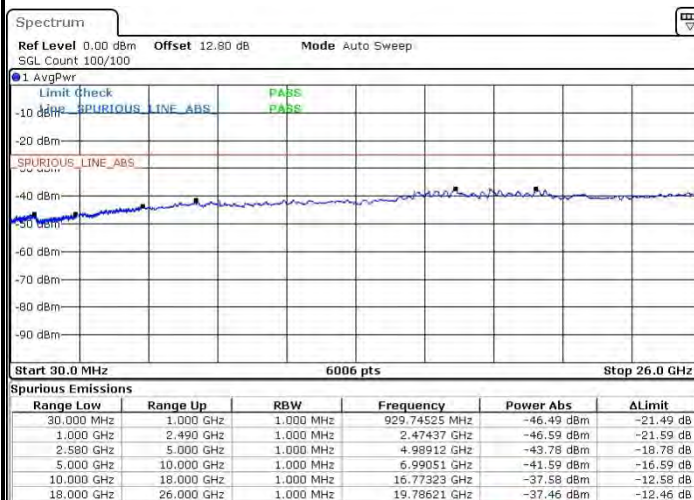
Date: 16 MAY 2015 02:12:40

Lowest Channel / 16QAM



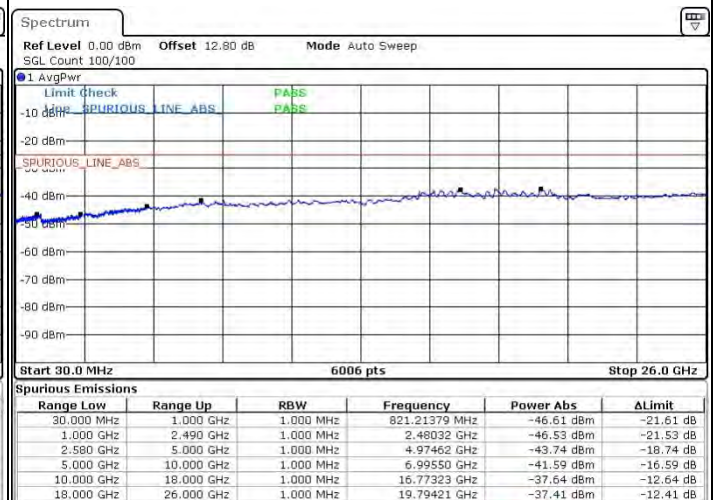
Date: 16 MAY 2015 02:13:49

Middle Channel / QPSK



Date: 16 MAY 2015 02:15:46

Middle Channel / 16QAM

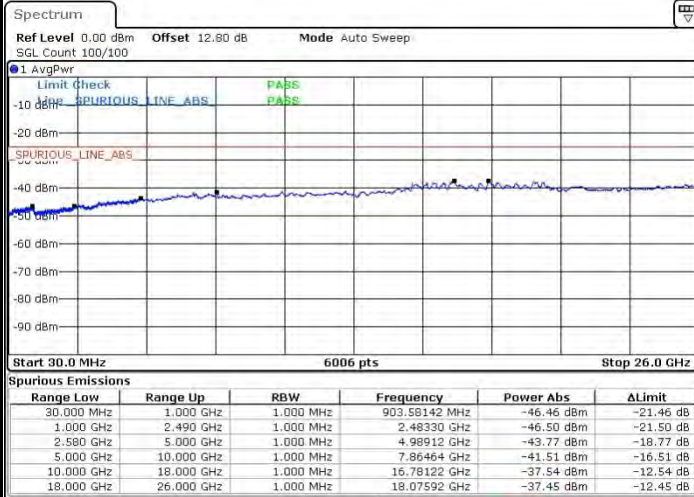


Date: 16 MAY 2015 02:16:56



LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 16 MAY 2015 02:23:32

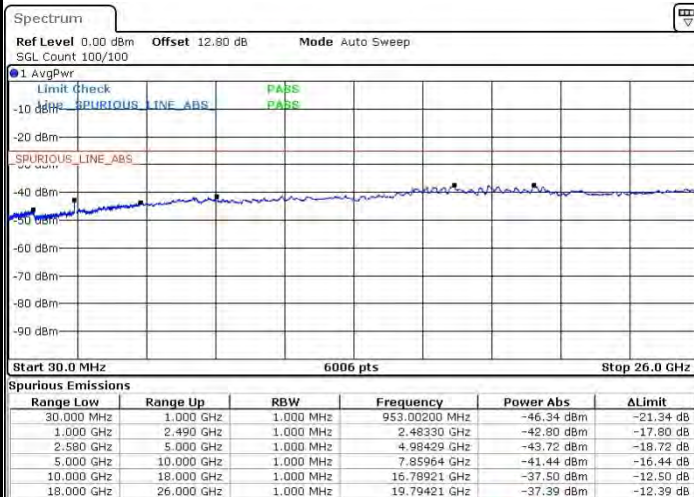
Highest Channel / 16QAM



Date: 16 MAY 2015 02:24:42

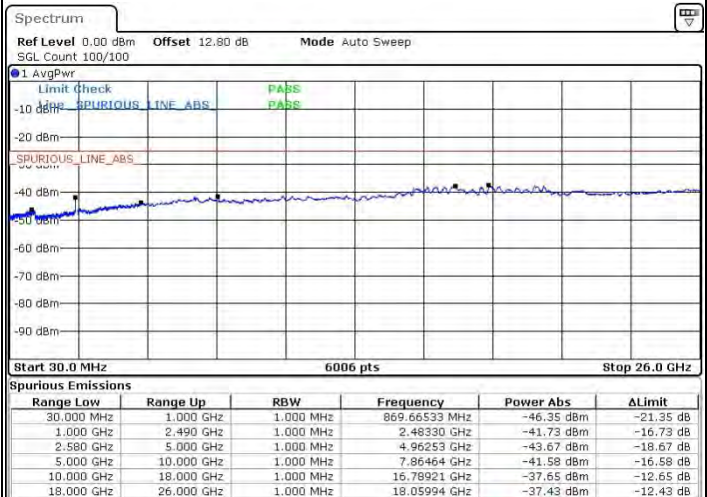
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 16 MAY 2015 02:31:19

Lowest Channel / 16QAM



Date: 16 MAY 2015 02:32:28



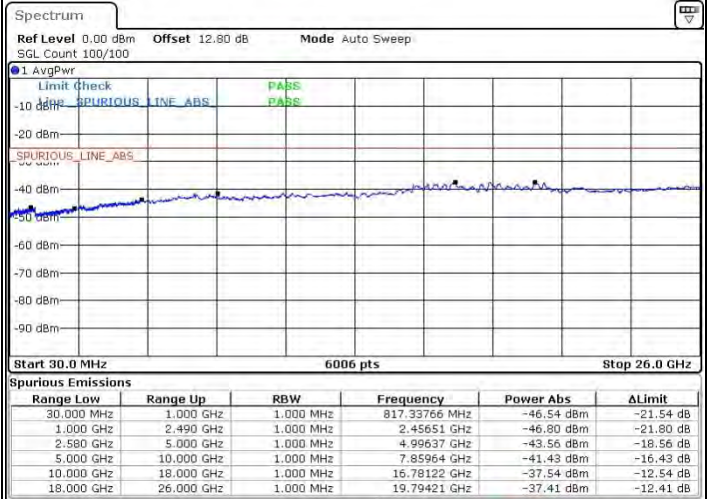
LTE Band 7 / 10MHz

Middle Channel / QPSK



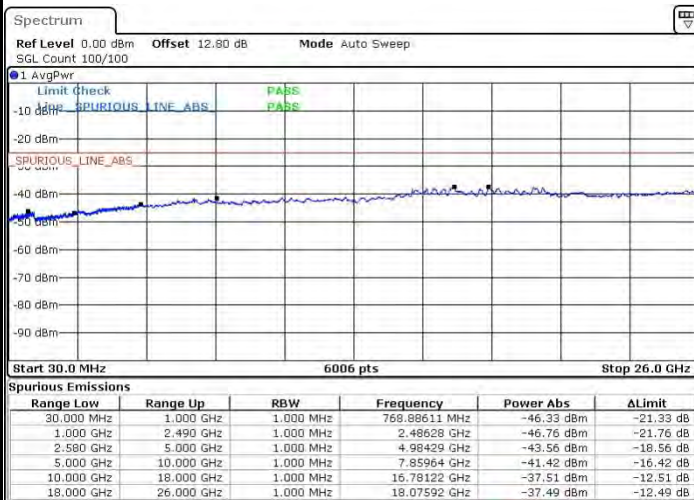
Date: 16 MAY 2015 02:34:25

Middle Channel / 16QAM



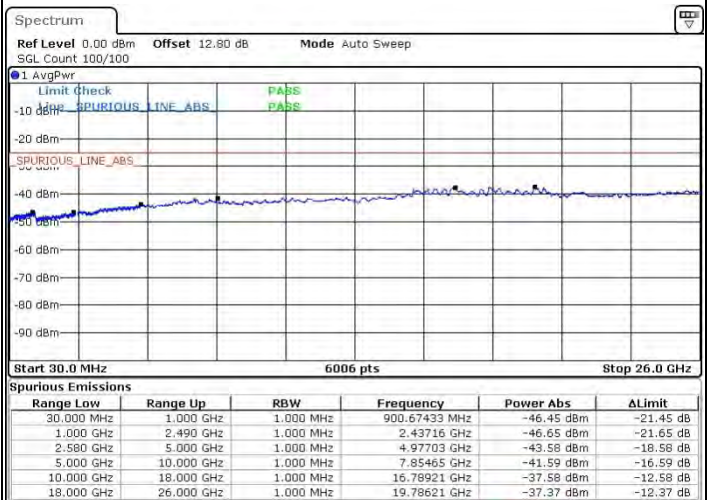
Date: 16 MAY 2015 02:35:35

Highest Channel / QPSK



Date: 16 MAY 2015 02:42:11

Highest Channel / 16QAM

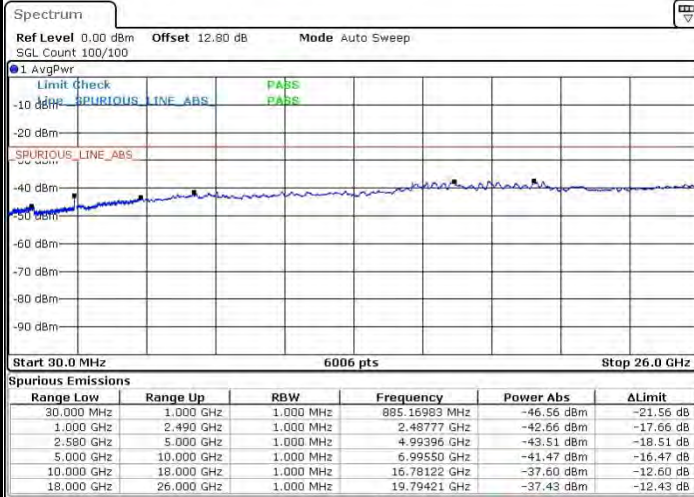


Date: 16 MAY 2015 02:43:21



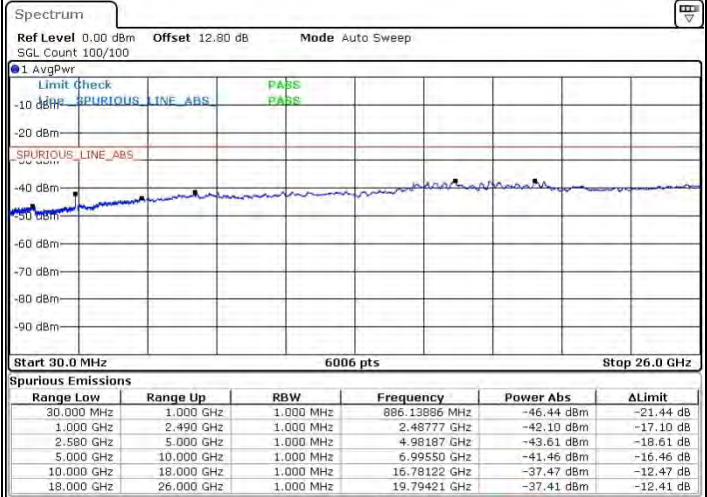
LTE Band 7 / 15MHz

Lowest Channel / QPSK



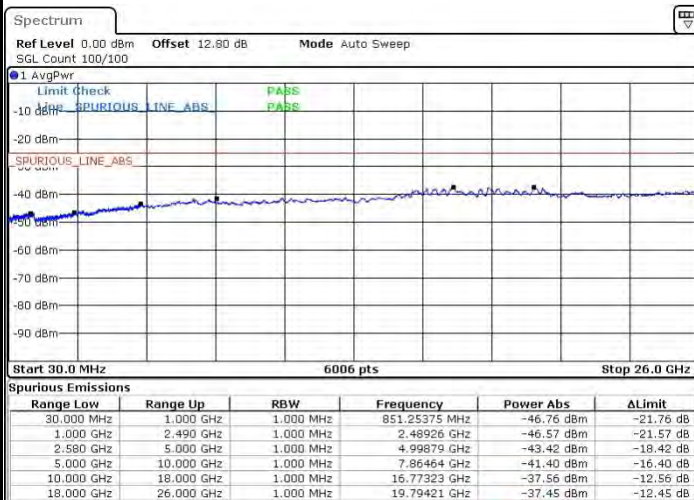
Date: 16 MAY 2015 02:49:56

Lowest Channel / 16QAM



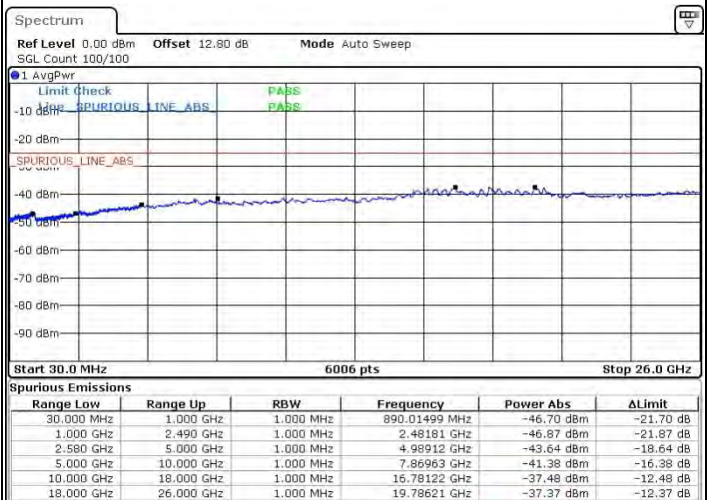
Date: 16 MAY 2015 02:51:06

Middle Channel / QPSK



Date: 16 MAY 2015 02:53:03

Middle Channel / 16QAM

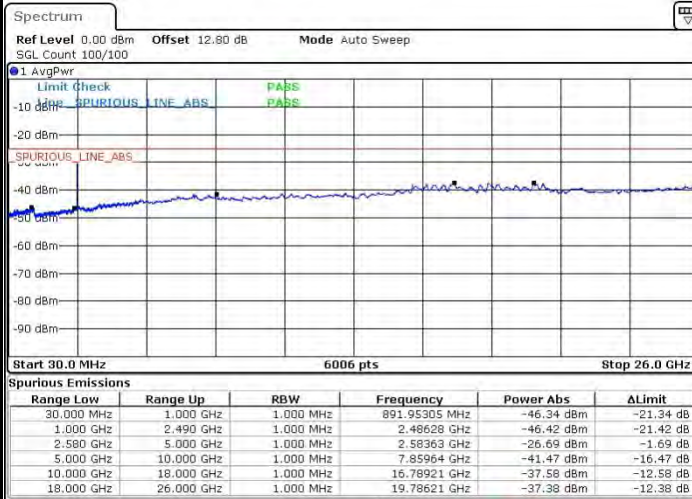


Date: 16 MAY 2015 02:54:12



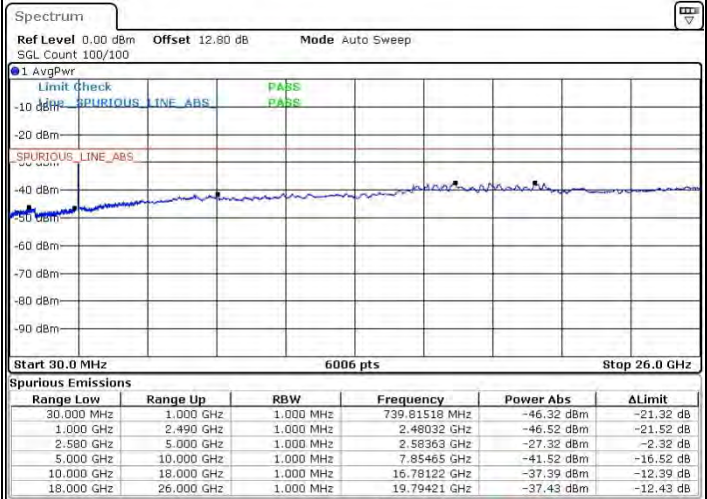
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 16 MAY 2015 03:00:49

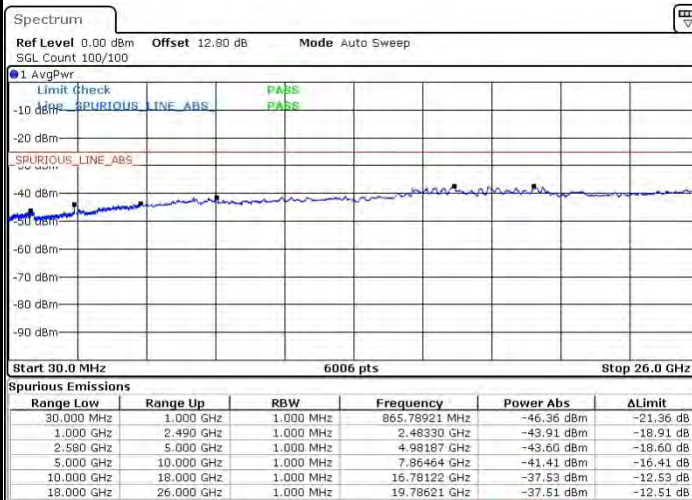
Highest Channel / 16QAM



Date: 16 MAY 2015 03:01:58

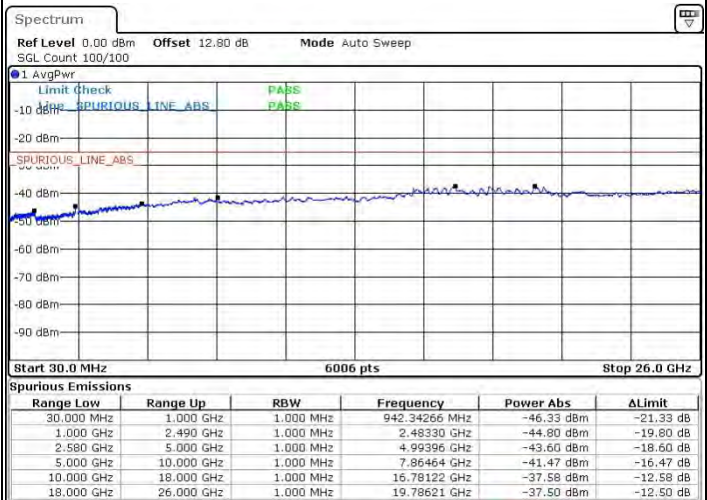
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 16 MAY 2015 03:08:34

Lowest Channel / 16QAM

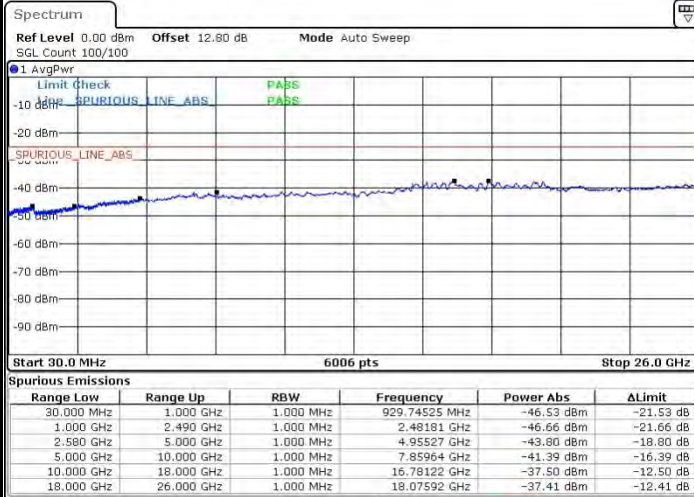


Date: 16 MAY 2015 03:09:44



LTE Band 7 / 20MHz

Middle Channel / QPSK



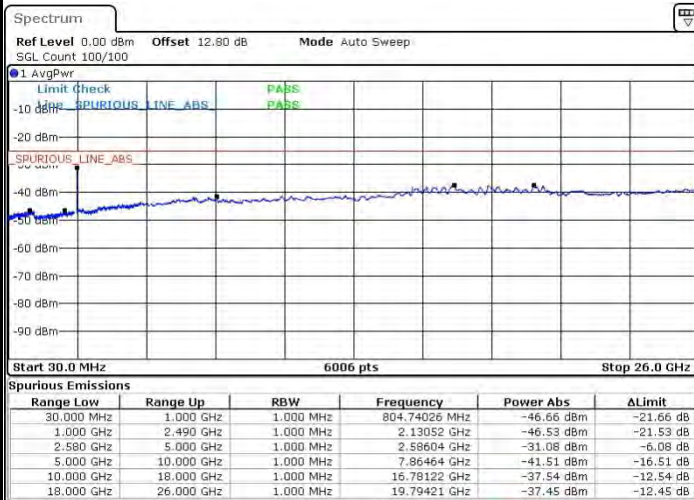
Date: 16 MAY 2015 03:13:15

Middle Channel / 16QAM



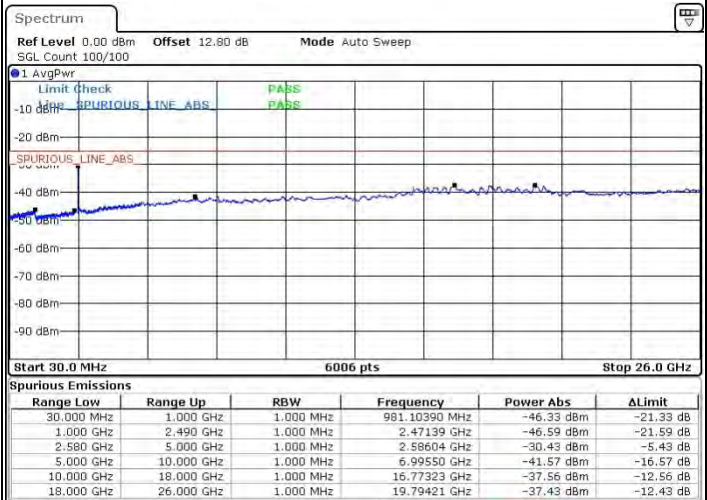
Date: 16 MAY 2015 03:14:25

Highest Channel / QPSK



Date: 16 MAY 2015 03:21:03

Highest Channel / 16QAM



Date: 16 MAY 2015 03:22:12

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	0.0001	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0074	
-30	Normal Voltage	0.0081	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0079	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 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 5 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.36	0.0545	8.65	0.0073
Middle		1	0	17.07	0.0509	8.95	0.0079
Highest		1	0	16.93	0.0493	9.18	0.0083
Lowest	16QAM	1	0	16.65	0.0462	7.93	0.0062
Middle		1	0	16.62	0.0459	8.51	0.0071
Highest		1	0	16.17	0.0414	8.49	0.0071
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.42	0.0552	8.71	0.0074
Middle		1	0	17.28	0.0535	9.03	0.0080
Highest		1	0	17.12	0.0515	9.30	0.0085
Lowest	16QAM	1	0	16.58	0.0455	7.98	0.0063
Middle		1	0	16.54	0.0451	8.39	0.0069
Highest		1	0	16.59	0.0456	8.59	0.0072
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.29	0.0536	8.69	0.0074
Middle		1	0	17.19	0.0524	8.91	0.0078
Highest		1	0	17.31	0.0538	9.33	0.0086
Lowest	16QAM	1	0	16.63	0.0460	7.98	0.0063
Middle		1	0	16.62	0.0459	8.32	0.0068
Highest		1	0	16.50	0.0447	8.74	0.0075
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.49	0.0561	8.78	0.0076
Middle		1	0	17.30	0.0537	8.86	0.0077
Highest		1	0	17.08	0.0511	8.90	0.0078
Lowest	16QAM	1	0	16.72	0.0470	8.07	0.0064
Middle		1	0	16.61	0.0458	8.28	0.0067
Highest		1	0	16.48	0.0445	8.30	0.0068
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.89	0.0975	19.75	0.0944
Middle		1	0	19.17	0.0826	19.01	0.0796
Highest		1	0	18.64	0.0731	18.94	0.0783
Lowest	16QAM	1	0	19.98	0.0995	19.79	0.0953
Middle		1	0	19.51	0.0893	19.34	0.0859
Highest		1	0	18.63	0.0729	18.44	0.0698
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	19.75	0.0944	19.63	0.0918
Middle		1	0	18.97	0.0789	19.14	0.0820
Highest		1	0	18.94	0.0783	19.02	0.0798
Lowest	16QAM	1	0	20.21	0.1050	20.09	0.1021
Middle		1	0	19.26	0.0843	19.50	0.0891
Highest		1	0	19.05	0.0804	19.27	0.0845
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	20.03	0.1007	19.74	0.0942
Middle		1	0	19.18	0.0828	18.87	0.0771
Highest		1	0	19.18	0.0828	19.21	0.0834
Lowest	16QAM	1	0	20.30	0.1072	20.18	0.1042
Middle		1	0	19.23	0.0838	19.49	0.0889
Highest		1	0	18.99	0.0793	19.72	0.0938
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	20.08	0.1019	19.68	0.0929
Middle		1	0	19.26	0.0843	19.11	0.0815
Highest		1	0	18.99	0.0793	19.14	0.0820
Lowest	16QAM	1	0	20.37	0.1089	19.58	0.0908
Middle		1	0	19.36	0.0863	19.60	0.0912
Highest		1	0	19.09	0.0811	18.82	0.0762
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission**

LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	1648	-54.67	-13	-41.67	-64.4	-56.43	0.98	4.89	H
	2472	-55.67	-13	-42.67	-68.75	-57.55	1.28	5.32	H
	3296	-59.59	-13	-46.59	-76.09	-63	1.54	7.10	H
	1648	-53.49	-13	-40.49	-61.16	-55.25	0.98	4.89	V
	2472	-54.90	-13	-41.90	-70.2	-56.78	1.28	5.32	V
	3296	-59.99	-13	-46.99	-75.41	-63.4	1.54	7.10	V
Middle	1672	-51.37	-13	-38.37	-60.72	-53.05	0.99	4.82	H
	2512	-54.43	-13	-41.43	-67.7	-56.4	1.29	5.41	H
	3344	-59.51	-13	-46.51	-75.72	-63.12	1.56	7.31	H
	1672	-52.84	-13	-39.84	-60.05	-54.52	0.99	4.82	V
	2512	-51.93	-13	-38.93	-67.27	-53.9	1.29	5.41	V
	3344	-60.45	-13	-47.45	-75.69	-64.06	1.56	7.31	V
Highest	1696	-54.74	-13	-41.74	-64.21	-56.34	1.00	4.75	H
	2544	-48.35	-13	-35.35	-62.06	-50.33	1.30	5.44	H
	3392	-59.90	-13	-46.90	-76.33	-63.7	1.57	7.52	H
	1696	-51.81	-13	-38.81	-59.57	-53.41	1.00	4.75	V
	2544	-51.08	-13	-38.08	-66.47	-53.06	1.30	5.44	V
	3392	-60.01	-13	-47.01	-75.88	-63.81	1.57	7.52	V

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



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
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	1648	-52.80	-13	-39.80	-62.53	-54.56	0.98	4.89	H
	2472	-51.00	-13	-38.00	-64.11	-52.88	1.28	5.32	H
	3296	-59.31	-13	-46.31	-75.65	-62.72	1.54	7.10	H
	1648	-52.48	-13	-39.48	-60.07	-54.24	0.98	4.89	V
	2472	-54.78	-13	-41.78	-70.09	-56.66	1.28	5.32	V
	3296	-60.36	-13	-47.36	-75.73	-63.77	1.54	7.10	V
Middle	1672	-51.34	-13	-38.34	-60.69	-53.02	0.99	4.82	H
	2504	-54.47	-13	-41.47	-67.51	-56.43	1.29	5.40	H
	3344	-59.28	-13	-46.28	-75.5	-62.89	1.56	7.31	H
	1672	-51.82	-13	-38.82	-59.07	-53.5	0.99	4.82	V
	2504	-52.61	-13	-39.61	-67.93	-54.57	1.29	5.40	V
	3344	-60.15	-13	-47.15	-75.39	-63.76	1.56	7.31	V
Highest	1696	-53.74	-13	-40.74	-63.19	-55.34	1.00	4.75	H
	2536	-51.05	-13	-38.05	-64.57	-53.03	1.30	5.43	H
	3392	-59.27	-13	-46.27	-75.69	-63.07	1.57	7.52	H
	1696	-52.02	-13	-39.02	-59.78	-53.62	1.00	4.75	V
	2536	-48.33	-13	-35.33	-63.69	-50.31	1.30	5.43	V
	3392	-60.29	-13	-47.29	-76.14	-64.09	1.57	7.52	V

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



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1648	-56.29	-13	-43.29	-66.03	-58.05	0.98	4.89	H
	2472	-43.74	-13	-30.74	-55.98	-45.62	1.28	5.32	H
	3296	-59.59	-13	-46.59	-76.15	-63	1.54	7.10	H
	1648	-56.35	-13	-43.35	-64.1	-58.11	0.98	4.89	V
	2472	-45.48	-13	-32.48	-60.95	-47.36	1.28	5.32	V
	3296	-60.34	-13	-47.34	-76.24	-63.75	1.54	7.10	V
Middle	1672	-55.45	-13	-42.45	-64.88	-57.13	0.99	4.82	H
	2504	-43.25	-13	-30.25	-56.11	-45.21	1.29	5.40	H
	3344	-59.80	-13	-46.80	-75.89	-63.41	1.56	7.31	H
	1672	-54.79	-13	-41.79	-62.19	-56.47	0.99	4.82	V
	2504	-41.02	-13	-28.02	-56.52	-42.98	1.29	5.40	V
	3344	-60.28	-13	-47.28	-75.94	-63.89	1.56	7.31	V
Highest	1688	-56.43	-13	-43.43	-66.03	-58.06	1.00	4.77	H
	2536	-39.40	-13	-26.40	-53.02	-41.38	1.30	5.43	H
	3376	-59.75	-13	-46.75	-76.16	-63.49	1.57	7.45	H
	1688	-54.37	-13	-41.37	-61.25	-56	1.00	4.77	V
	2536	-42.38	-13	-29.38	-58.03	-44.36	1.30	5.43	V
	3376	-60.53	-13	-47.53	-76.13	-64.27	1.57	7.45	V

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



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0									
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	1648	-55.56	-13	-42.56	-65	-57.32	0.98	4.89	H
	2472	-48.43	-13	-35.43	-62.02	-50.31	1.28	5.32	H
	3296	-59.17	-13	-46.17	-76.03	-62.58	1.54	7.10	H
	1648	-55.46	-13	-42.46	-63.3	-57.22	0.98	4.89	V
	2472	-52.35	-13	-39.35	-67.73	-54.23	1.28	5.32	V
	3296	-60.09	-13	-47.09	-76.1	-63.5	1.54	7.10	V
Middle	1664	-53.43	-13	-40.43	-63.03	-55.14	0.98	4.84	H
	2496	-46.26	-13	-33.26	-59.21	-48.21	1.29	5.39	H
	3328	-59.47	-13	-46.47	-75.7	-63.01	1.55	7.24	H
	1664	-51.29	-13	-38.29	-58.56	-53	0.98	4.84	V
	2496	-47.57	-13	-34.57	-63.27	-49.52	1.29	5.39	V
	3328	-60.72	-13	-47.72	-75.72	-64.26	1.55	7.24	V
Highest	1680	-55.63	-13	-42.63	-64.76	-57.28	0.99	4.80	H
	2520	-46.09	-13	-33.09	-59.34	-48.06	1.30	5.42	H
	3360	-59.47	-13	-46.47	-75.99	-63.14	1.56	7.38	H
	1680	-57.23	-13	-44.23	-64.33	-58.88	0.99	4.80	V
	2520	-45.26	-13	-32.26	-60.71	-47.23	1.30	5.42	V
	3360	-60.22	-13	-47.22	-75.92	-63.89	1.56	7.38	V

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



LTE Band 7 / 5MHz / 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)
Lowest	5000	-42.91	-25	-17.91	-65.84	-50.27	2.34	9.70	H
	7500	-39.73	-25	-14.73	-68.29	-49.1	2.43	11.80	H
	10000	-40.72	-25	-15.72	-72.21	-50.22	2.70	12.20	H
	12500	-36.92	-25	-11.92	-72.99	-46.52	2.80	12.40	H
	5000	-48.39	-25	-23.39	-69.89	-55.75	2.34	9.70	V
	7500	-44.89	-25	-19.89	-73.15	-54.26	2.43	11.80	V
	10000	-39.31	-25	-14.31	-68.99	-48.81	2.70	12.20	V
	12500	-37.63	-25	-12.63	-72.92	-47.23	2.80	12.40	V
Middle	5064	-43.35	-25	-18.35	-66.58	-50.68	2.37	9.70	H
	7596	-39.50	-25	-14.50	-67.88	-48.96	2.40	11.86	H
	10128	-39.10	-25	-14.10	-71.26	-48.66	2.70	12.25	H
	12660	-36.50	-25	-11.50	-73.04	-46.25	2.84	12.59	H
	5064	-48.25	-25	-23.25	-70.16	-55.58	2.37	9.70	V
	7596	-44.76	-25	-19.76	-72.2	-54.22	2.40	11.86	V
	10128	-38.61	-25	-13.61	-68.43	-48.17	2.70	12.25	V
	12660	-37.46	-25	-12.46	-73.61	-47.21	2.84	12.59	V
Highest	5136	-44.74	-25	-19.74	-67.54	-52.02	2.42	9.70	H
	7692	-35.62	-25	-10.62	-64.12	-45.17	2.37	11.92	H
	10260	-39.35	-25	-14.35	-70.64	-48.96	2.69	12.30	H
	12828	-36.17	-25	-11.17	-74.15	-46.08	2.89	12.79	H
	5136	-48.44	-25	-23.44	-70.82	-55.72	2.42	9.70	V
	7692	-41.69	-25	-16.69	-69.72	-51.24	2.37	11.92	V
	10260	-39.39	-25	-14.39	-70.14	-49	2.69	12.30	V
	12828	-37.64	-25	-12.64	-73.11	-47.55	2.89	12.79	V

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



LTE Band 7 / 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)
Lowest	5004	-44.26	-25	-19.26	-67.02	-51.62	2.34	9.70	H
	7500	-39.59	-25	-14.59	-68.76	-48.96	2.43	11.80	H
	10008	-39.08	-25	-14.08	-70.78	-48.59	2.70	12.20	H
	12504	-36.68	-25	-11.68	-72.47	-46.28	2.81	12.40	H
	5004	-47.90	-25	-22.90	-69.33	-55.26	2.34	9.70	V
	7500	-43.90	-25	-18.90	-72.03	-53.27	2.43	11.80	V
	10008	-37.74	-25	-12.74	-67.9	-47.25	2.70	12.20	V
	12504	-38.42	-25	-13.42	-73.71	-48.02	2.81	12.40	V
Middle	5064	-43.67	-25	-18.67	-66.33	-51	2.37	9.70	H
	7596	-38.66	-25	-13.66	-67.1	-48.12	2.40	11.86	H
	10128	-41.23	-25	-16.23	-72.8	-50.79	2.70	12.25	H
	12648	-36.43	-25	-11.43	-73.69	-46.17	2.84	12.58	H
	5064	-47.68	-25	-22.68	-69.24	-55.01	2.37	9.70	V
	7596	-43.18	-25	-18.18	-71.03	-52.64	2.40	11.86	V
	10128	-38.29	-25	-13.29	-68.42	-47.85	2.70	12.25	V
	12648	-38.09	-25	-13.09	-73.71	-47.83	2.84	12.58	V
Highest	5124	-42.09	-25	-17.09	-64.96	-49.38	2.41	9.70	H
	7680	-34.64	-25	-9.64	-62.96	-44.18	2.37	11.91	H
	10248	-38.83	-25	-13.83	-70.58	-48.43	2.69	12.30	H
	12804	-35.40	-25	-10.40	-73.1	-45.28	2.88	12.76	H
	5124	-45.88	-25	-20.88	-67.78	-53.17	2.41	9.70	V
	7680	-41.73	-25	-16.73	-69.5	-51.27	2.37	11.91	V
	10248	-40.52	-25	-15.52	-71.11	-50.12	2.69	12.30	V
	12804	-36.47	-25	-11.47	-72.47	-46.35	2.88	12.76	V

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



LTE Band 7 / 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)
Lowest	5004	-45.81	-25	-20.81	-68.74	-53.17	2.34	9.70	H
	7500	-39.10	-25	-14.10	-67.86	-48.47	2.43	11.80	H
	10008	-39.17	-25	-14.17	-71.18	-48.68	2.70	12.20	H
	12504	-36.68	-25	-11.68	-72.52	-46.28	2.81	12.40	H
	5004	-48.49	-25	-23.49	-70.05	-55.85	2.34	9.70	V
	7500	-44.32	-25	-19.32	-72.45	-53.69	2.43	11.80	V
	10008	-37.65	-25	-12.65	-67.68	-47.16	2.70	12.20	V
	12504	-37.18	-25	-12.18	-72.77	-46.78	2.81	12.40	V
Middle	5052	-41.88	-25	-16.88	-64.32	-49.21	2.37	9.70	H
	7584	-38.55	-25	-13.55	-67.08	-48	2.40	11.85	H
	10116	-40.79	-25	-15.79	-72.58	-50.34	2.70	12.25	H
	12648	-36.77	-25	-11.77	-73.32	-46.51	2.84	12.58	H
	5052	-47.75	-25	-22.75	-69.05	-55.08	2.37	9.70	V
	7584	-44.73	-25	-19.73	-72.84	-54.18	2.40	11.85	V
	10116	-38.55	-25	-13.55	-68.99	-48.1	2.70	12.25	V
	12648	-37.80	-25	-12.80	-73.03	-47.54	2.84	12.58	V
Highest	5112	-42.87	-25	-17.87	-65.76	-50.17	2.40	9.70	H
	7668	-36.50	-25	-11.50	-64.56	-46.03	2.38	11.90	H
	10224	-42.82	-25	-17.82	-74.38	-52.41	2.69	12.29	H
	12780	-35.42	-25	-10.42	-73.04	-45.28	2.87	12.74	H
	5112	-45.84	-25	-20.84	-67.61	-53.14	2.40	9.70	V
	7668	-41.91	-25	-16.91	-69.75	-51.44	2.38	11.90	V
	10224	-42.59	-25	-17.59	-72.65	-52.18	2.69	12.29	V
	12780	-36.78	-25	-11.78	-72.63	-46.64	2.87	12.74	V

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



LTE Band 7 / 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)
Lowest	5004	-43.72	-25	-18.72	-66.73	-51.08	2.34	9.70	H
	7504	-39.91	-25	-14.91	-68.82	-49.28	2.43	11.80	H
	10012	-41.70	-25	-16.70	-73.2	-51.21	2.70	12.20	H
	12508	-35.57	-25	-10.57	-71.89	-45.17	2.81	12.41	H
	5004	-48.41	-25	-23.41	-69.65	-55.77	2.34	9.70	V
	7504	-44.65	-25	-19.65	-73.14	-54.02	2.43	11.80	V
	10012	-39.21	-25	-14.21	-69.23	-48.72	2.70	12.20	V
	12508	-37.59	-25	-12.59	-72.75	-47.19	2.81	12.41	V
Middle	5052	-40.70	-25	-15.70	-63.79	-48.03	2.37	9.70	H
	7584	-38.67	-25	-13.67	-67.33	-48.12	2.40	11.85	H
	10104	-41.45	-25	-16.45	-73	-51	2.70	12.24	H
	12636	-36.56	-25	-11.56	-73.3	-46.28	2.84	12.56	H
	5052	-47.67	-25	-22.67	-69.3	-55	2.37	9.70	V
	7584	-44.43	-25	-19.43	-72.89	-53.88	2.40	11.85	V
	10104	-39.14	-25	-14.14	-69.4	-48.69	2.70	12.24	V
	12636	-37.43	-25	-12.43	-72.97	-47.15	2.84	12.56	V
Highest	5100	-45.27	-25	-20.27	-67.84	-52.58	2.39	9.70	H
	7656	-36.31	-25	-11.31	-64.64	-45.82	2.38	11.89	H
	10200	-42.34	-25	-17.34	-73.78	-51.92	2.70	12.28	H
	12756	-36.12	-25	-11.12	-73.68	-45.96	2.87	12.71	H
	5100	-46.48	-25	-21.48	-68.44	-53.79	2.39	9.70	V
	7656	-39.25	-25	-14.25	-66.99	-48.76	2.38	11.89	V
	10200	-42.76	-25	-17.76	-72.71	-52.34	2.70	12.28	V
	12756	-37.44	-25	-12.44	-73.59	-47.28	2.87	12.71	V

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