

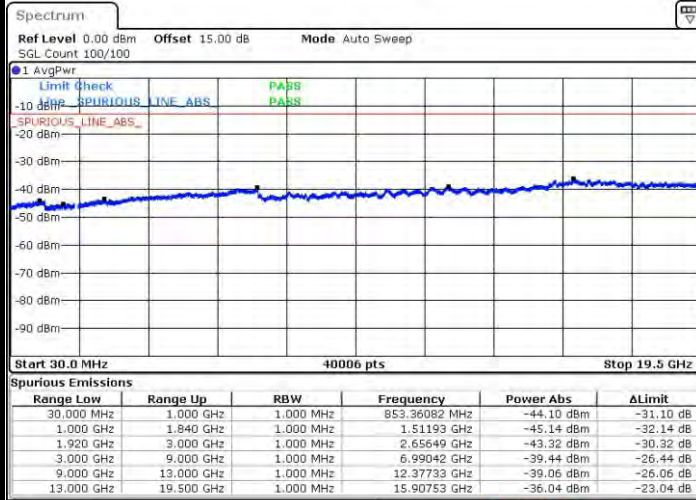


## **Conducted Spurious Emission**



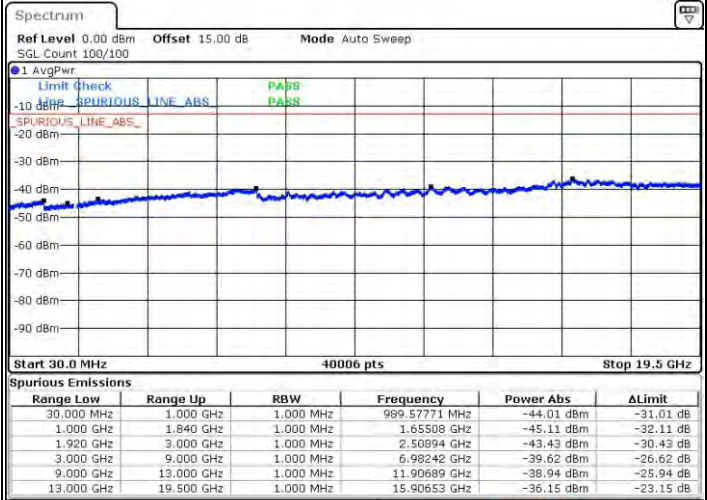
## LTE Band 2 / 1.4MHz

## Lowest Channel / QPSK



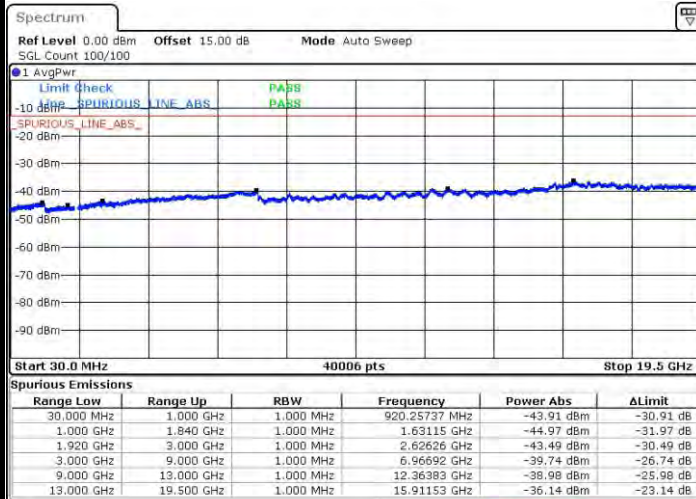
Date: 25 MAY 2015 10:37:11

## Lowest Channel / 16QAM



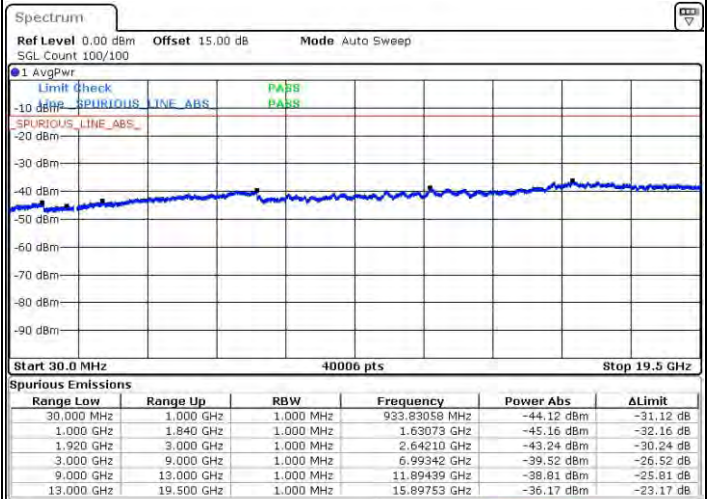
Date: 25 MAY 2015 10:38:20

## Middle Channel / QPSK



Date: 25 MAY 2015 10:40:17

## Middle Channel / 16QAM

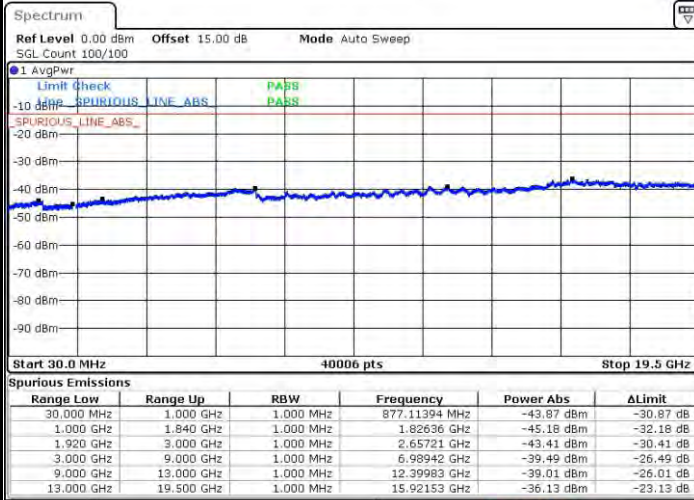


Date: 25 MAY 2015 10:41:26



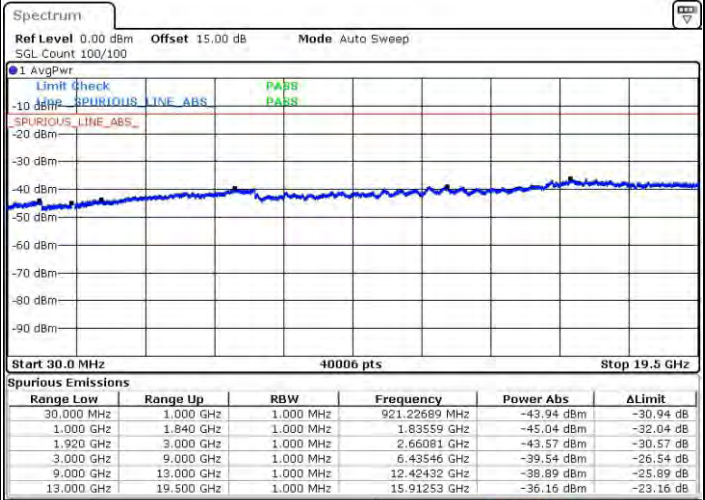
## LTE Band 2 / 1.4MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 10:48:05

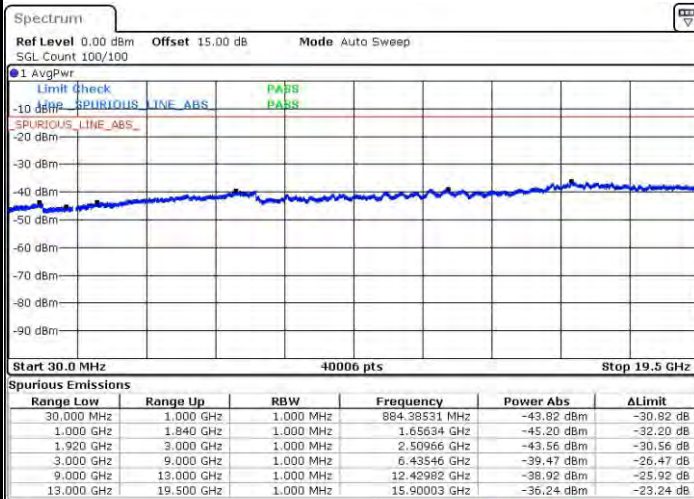
## Highest Channel / 16QAM



Date: 25 MAY 2015 10:49:16

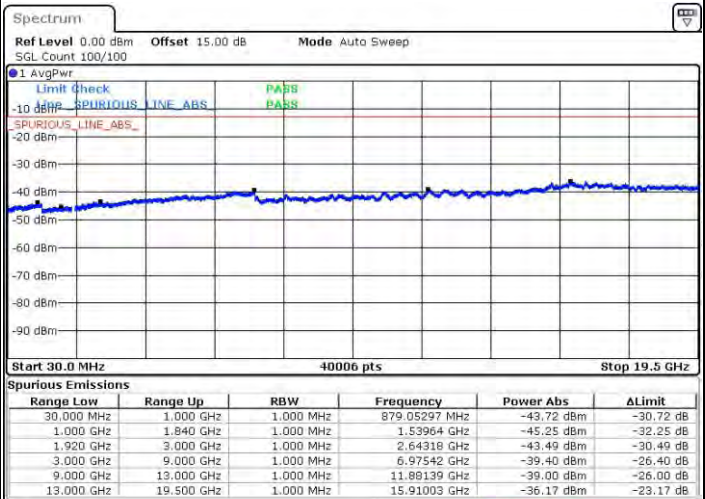
## LTE Band 2 / 3MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 10:55:54

## Lowest Channel / 16QAM

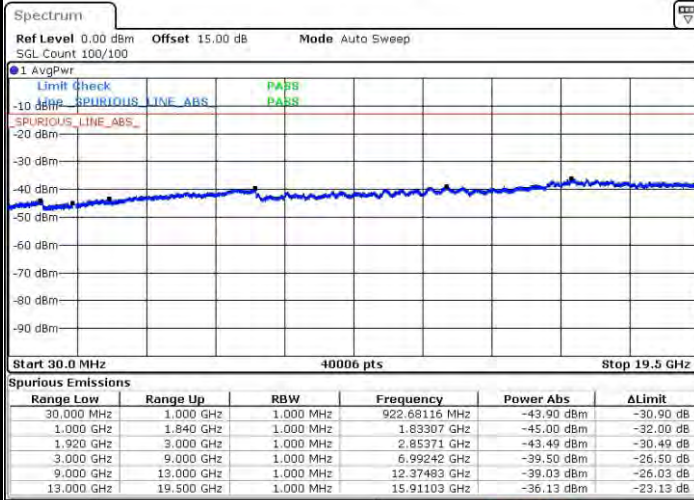


Date: 25 MAY 2015 10:57:03



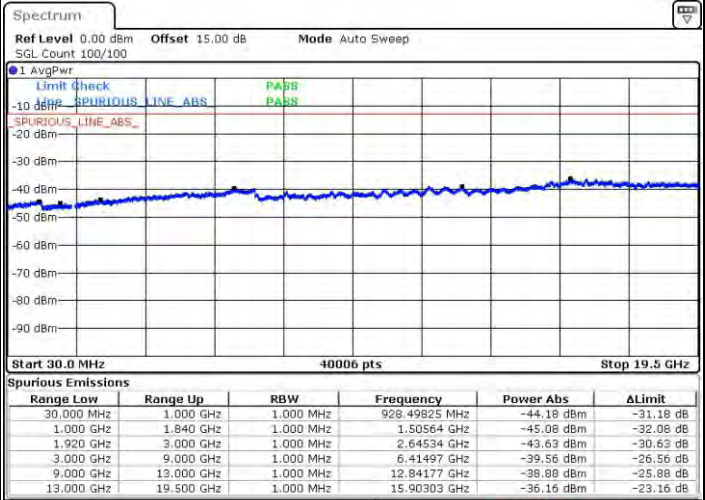
## LTE Band 2 / 3MHz

## Middle Channel / QPSK



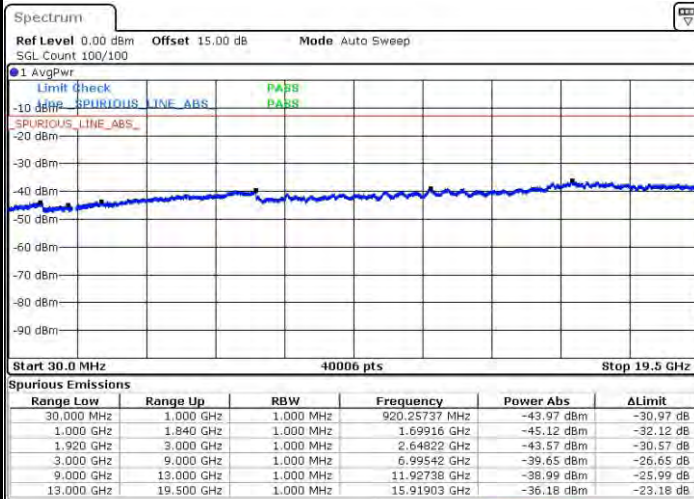
Date: 25 MAY 2015 10:59:00

## Middle Channel / 16QAM



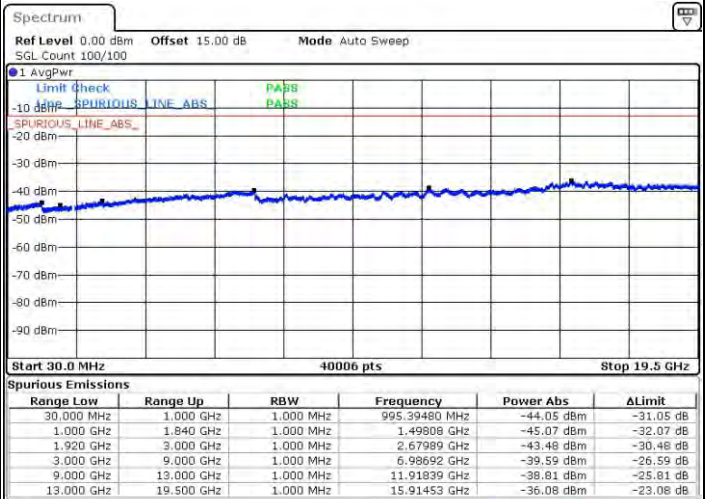
Date: 25 MAY 2015 11:00:09

## Highest Channel / QPSK



Date: 25 MAY 2015 11:06:43

## Highest Channel / 16QAM



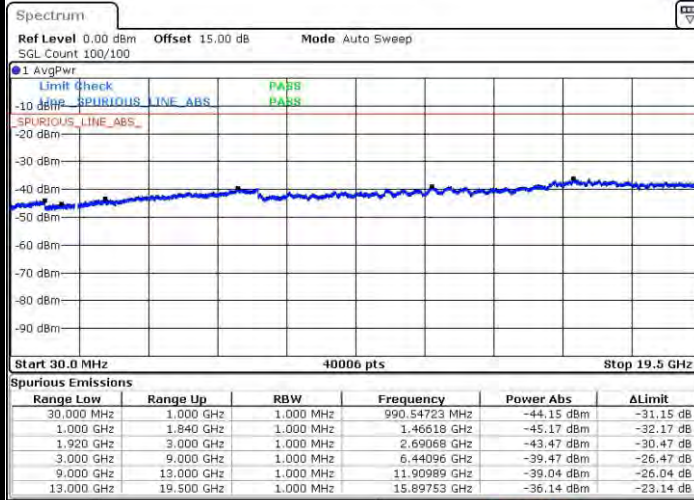
Date: 25 MAY 2015 11:07:52





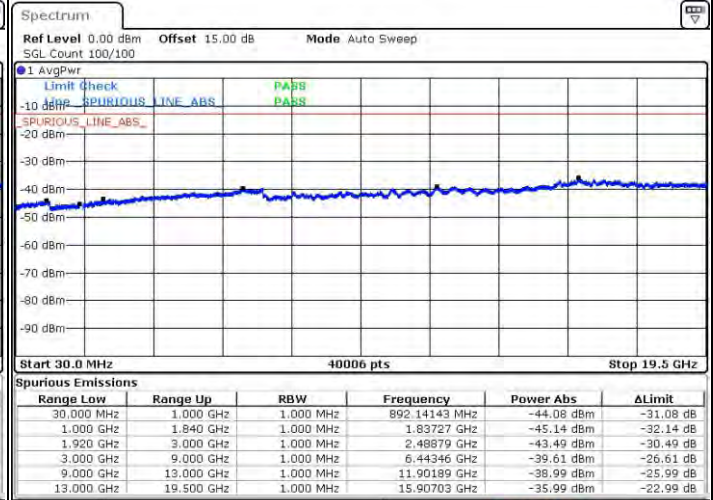
## LTE Band 2 / 5MHz

## Lowest Channel / QPSK



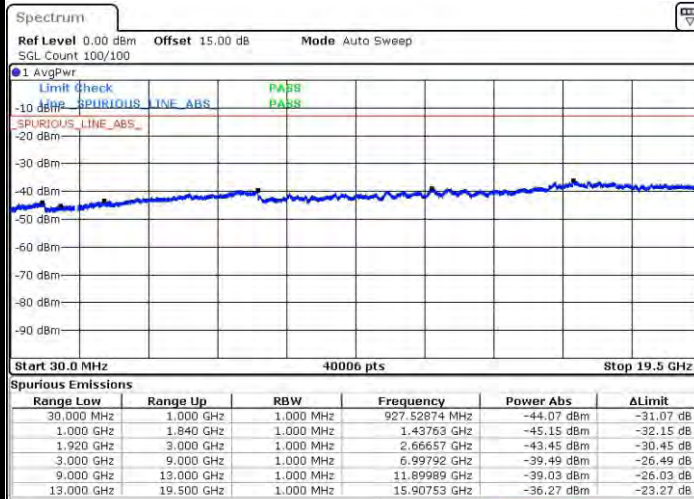
Date: 25 MAY 2015 11:14:26

## Lowest Channel / 16QAM



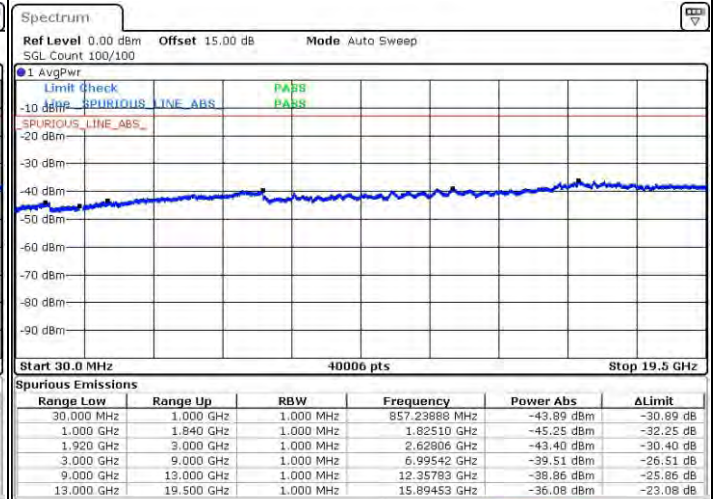
Date: 25 MAY 2015 11:15:35

## Middle Channel / QPSK



Date: 25 MAY 2015 11:17:32

## Middle Channel / 16QAM

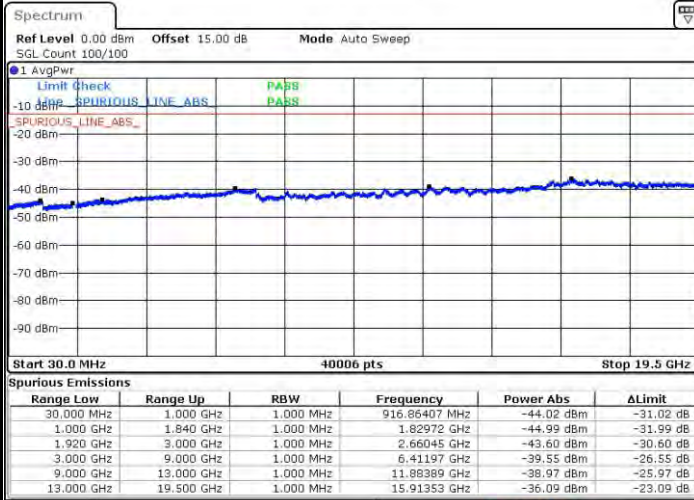


Date: 25 MAY 2015 11:18:41



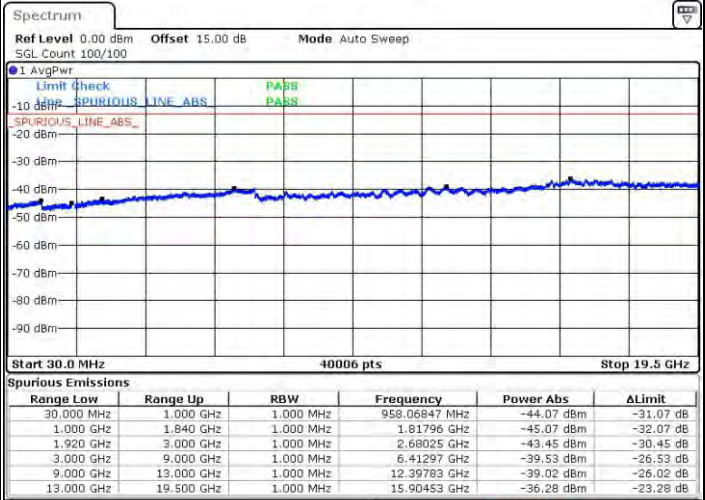
## LTE Band 2 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 11:25:14

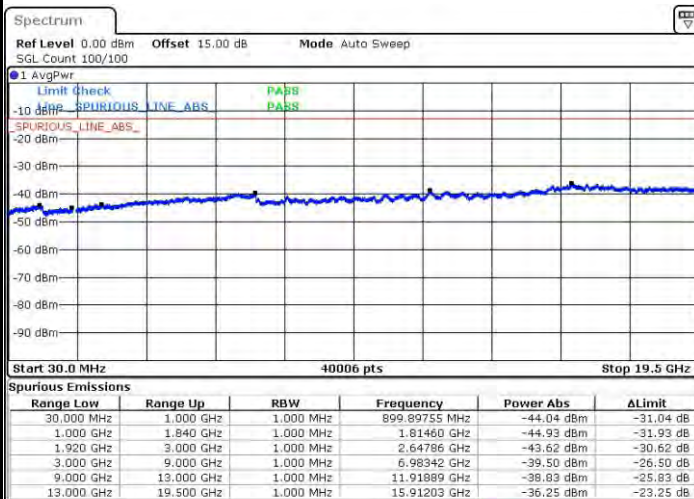
## Highest Channel / 16QAM



Date: 25 MAY 2015 11:26:24

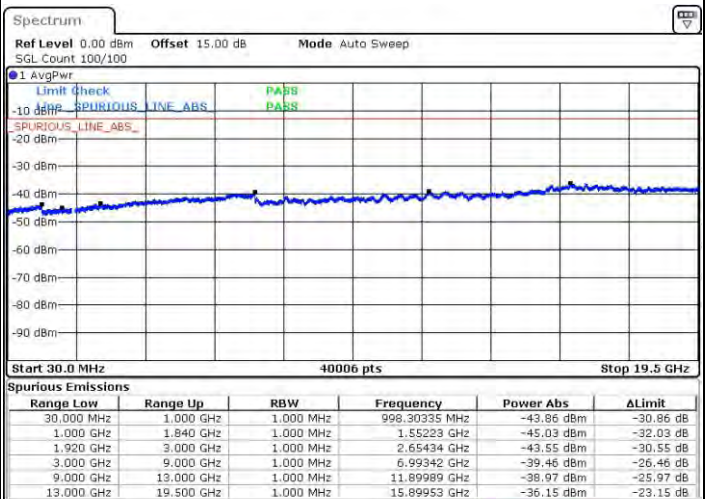
## LTE Band 2 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 11:32:57

## Lowest Channel / 16QAM

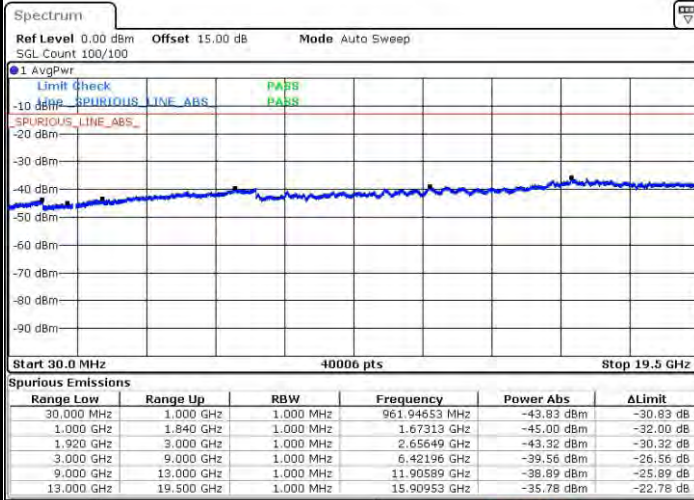


Date: 25 MAY 2015 11:34:07



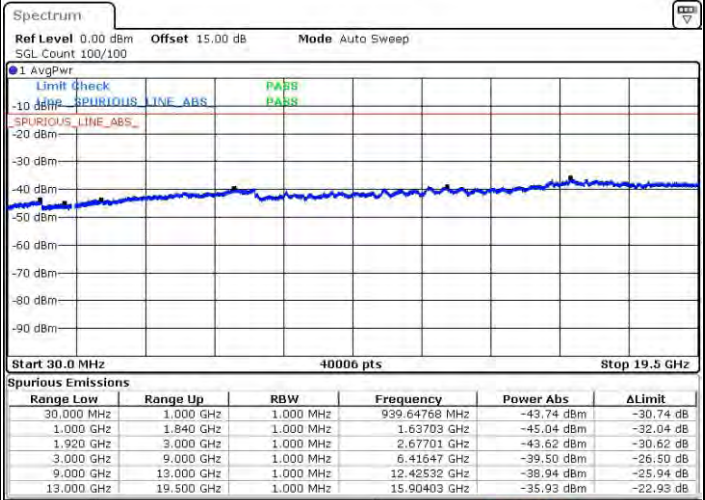
## LTE Band 2 / 10MHz

## Middle Channel / QPSK



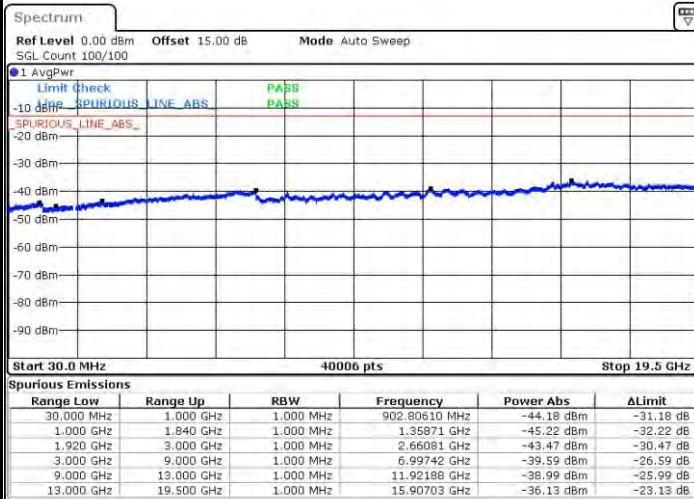
Date: 25 MAY 2015 11:36:04

## Middle Channel / 16QAM



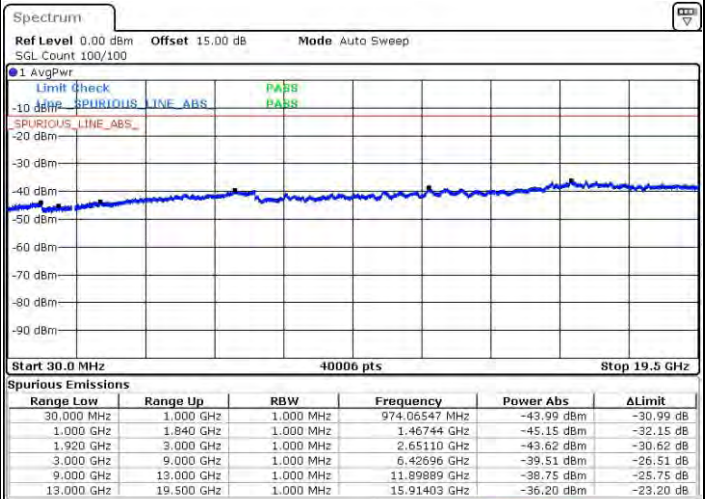
Date: 25 MAY 2015 11:37:13

## Highest Channel / QPSK



Date: 25 MAY 2015 11:43:47

## Highest Channel / 16QAM



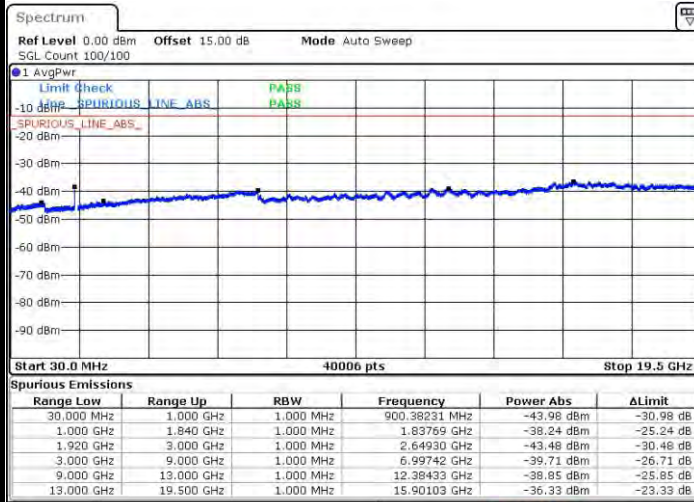
Date: 25 MAY 2015 11:44:56





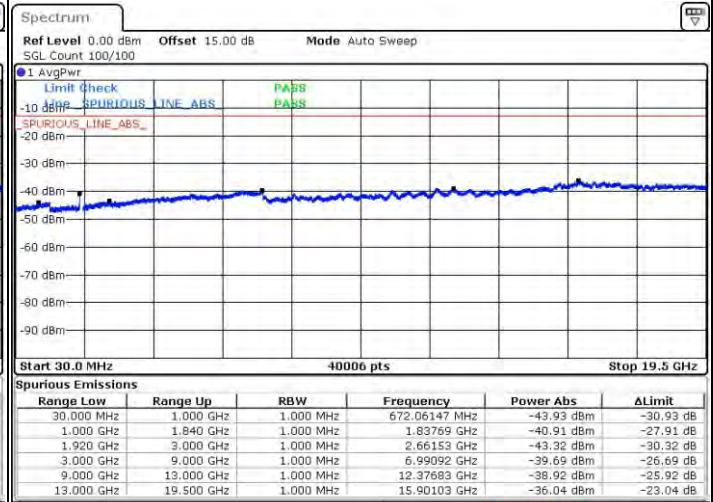
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK



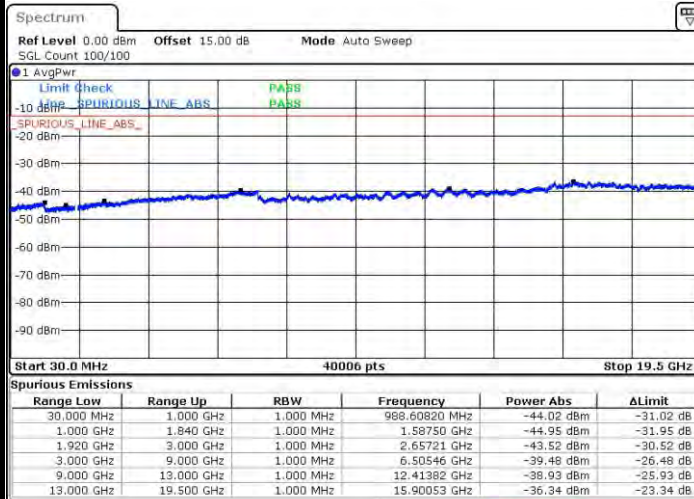
Date: 25 MAY 2015 11:51:30

## Lowest Channel / 16QAM



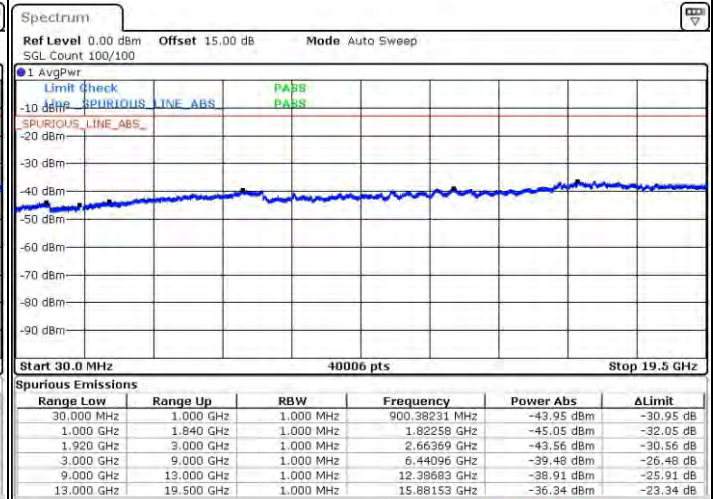
Date: 25 MAY 2015 11:52:39

## Middle Channel / QPSK



Date: 25 MAY 2015 11:54:35

## Middle Channel / 16QAM



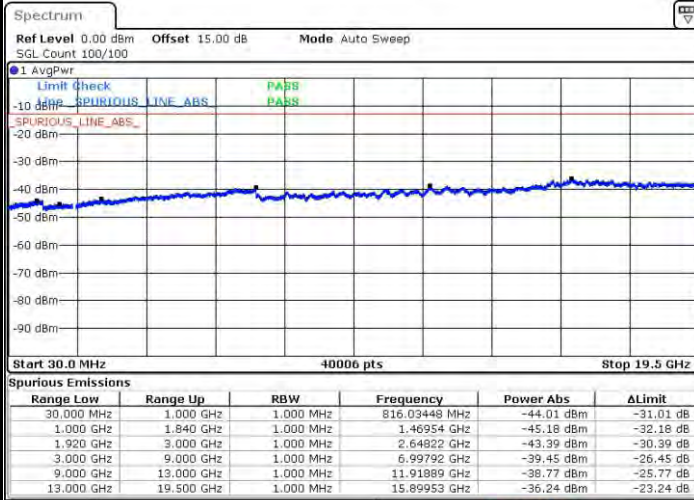
Date: 25 MAY 2015 11:55:45





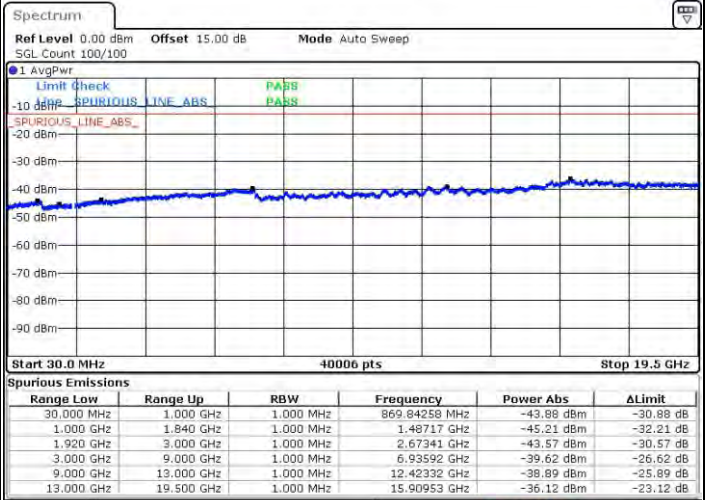
## LTE Band 2 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 12:02:20

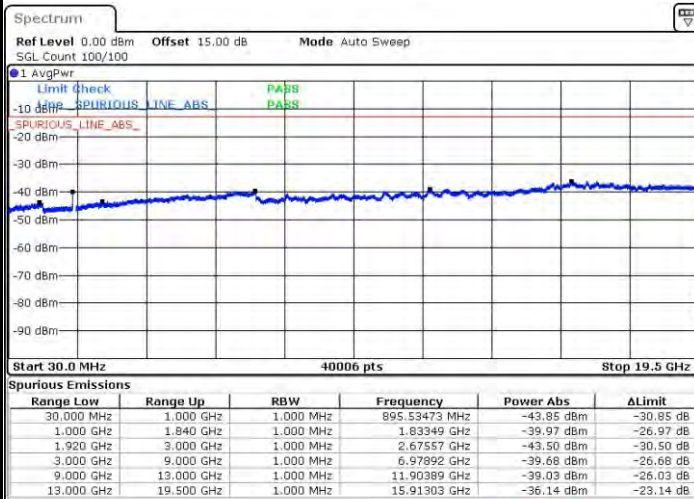
## Highest Channel / 16QAM



Date: 25 MAY 2015 12:03:29

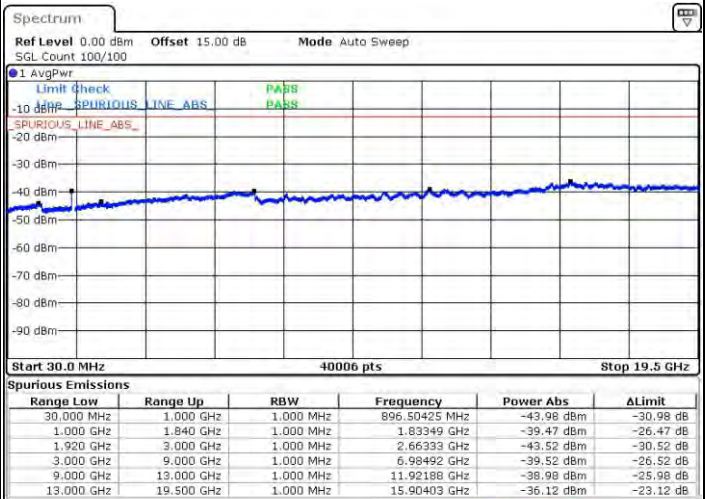
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 12:10:02

## Lowest Channel / 16QAM

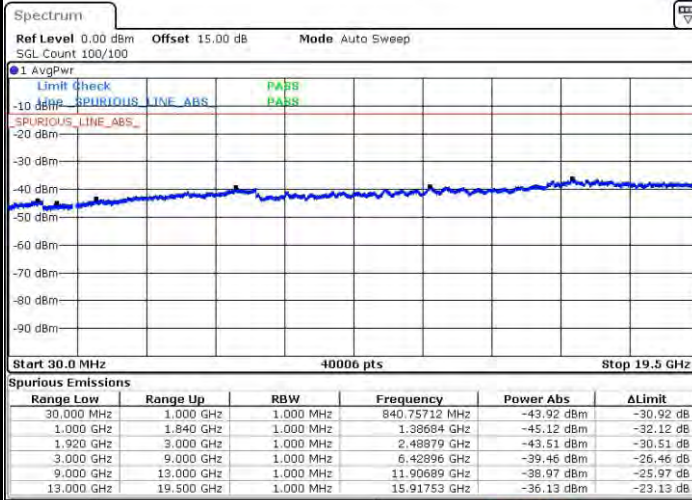


Date: 25 MAY 2015 12:11:12



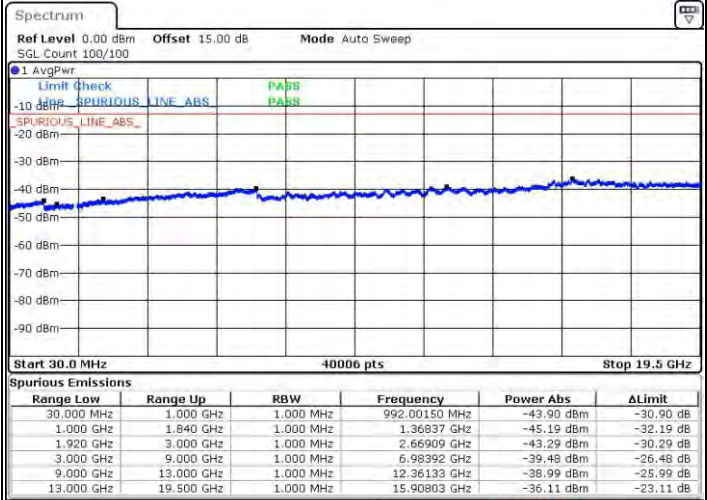
## LTE Band 2 / 20MHz

## Middle Channel / QPSK



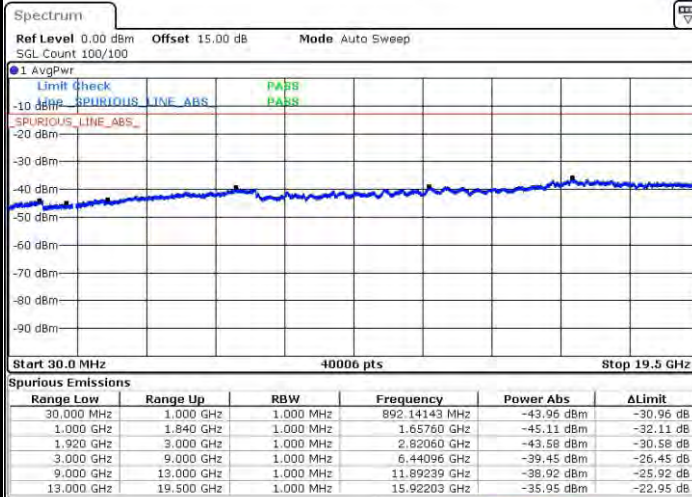
Date: 25 MAY 2015 12:13:40

## Middle Channel / 16QAM



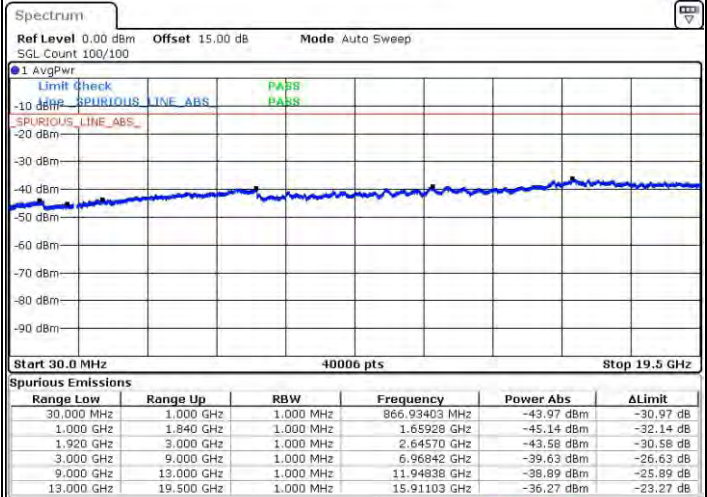
Date: 25 MAY 2015 12:14:50

## Highest Channel / QPSK



Date: 25 MAY 2015 12:21:25

## Highest Channel / 16QAM

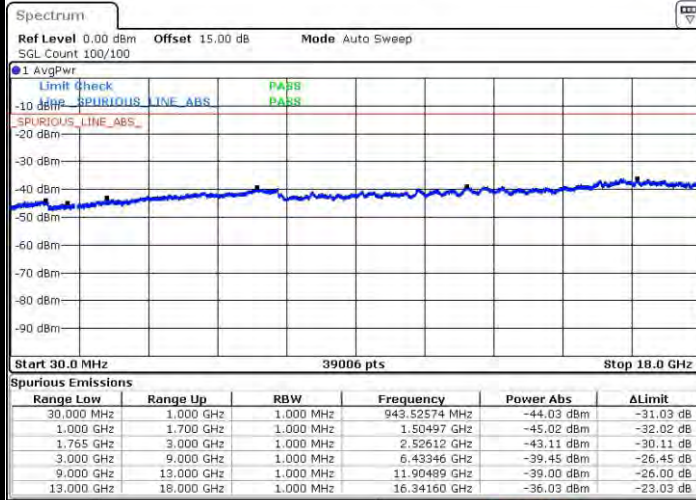


Date: 25 MAY 2015 12:22:35



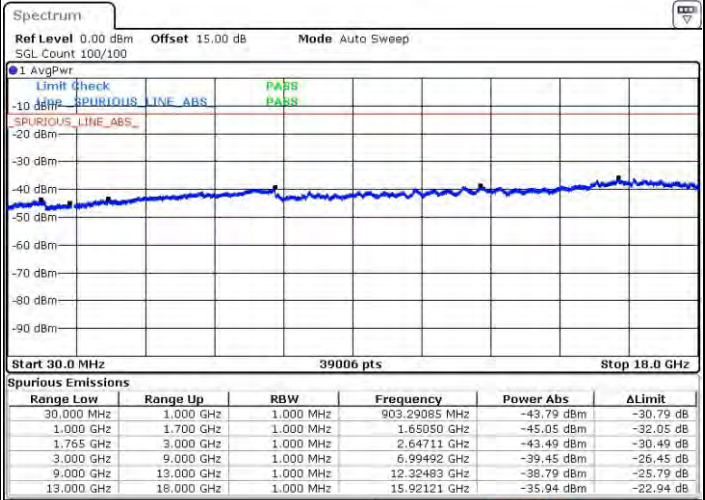
## LTE Band 4 / 1.4MHz

## Lowest Channel / QPSK



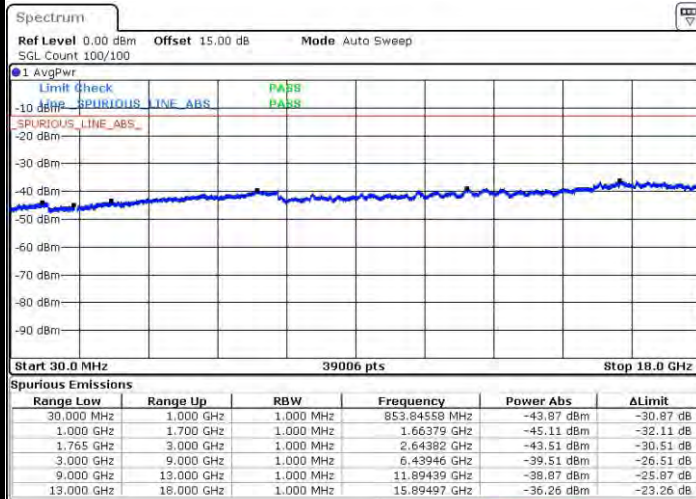
Date: 25 MAY 2015 14:57:17

## Lowest Channel / 16QAM



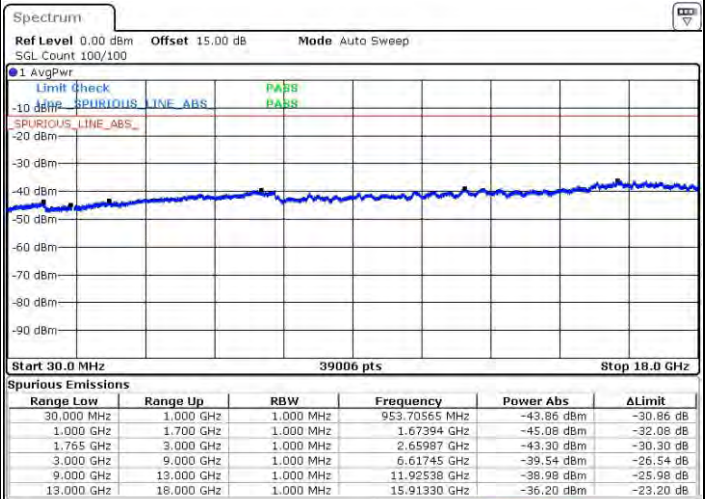
Date: 25 MAY 2015 14:58:27

## Middle Channel / QPSK



Date: 25 MAY 2015 15:00:23

## Middle Channel / 16QAM



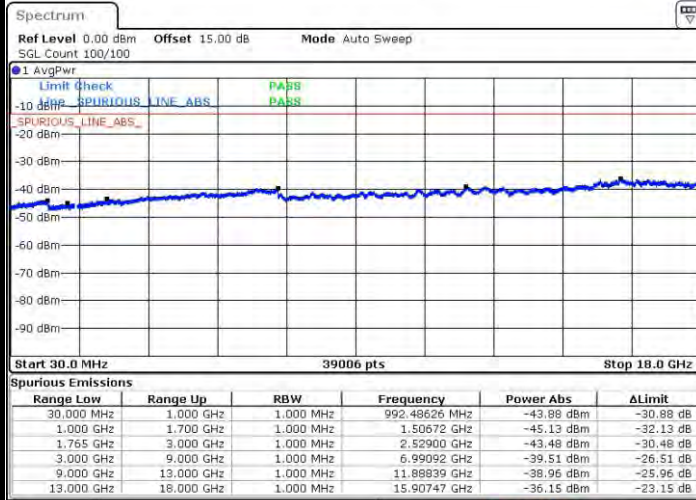
Date: 25 MAY 2015 15:01:33





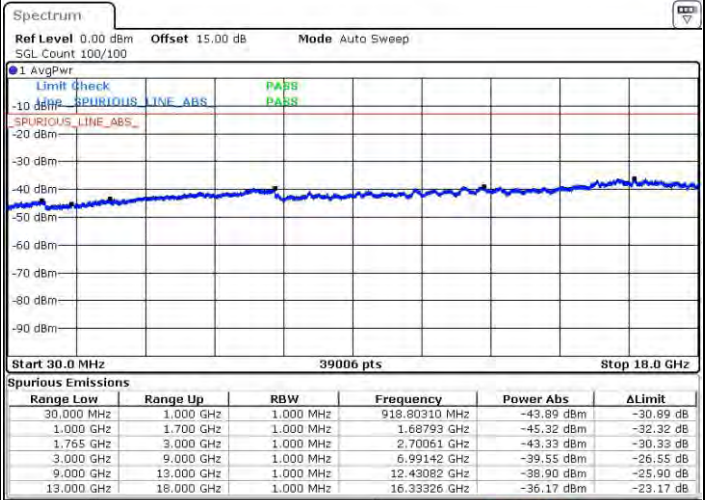
## LTE Band 4 / 1.4MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 15:08:13

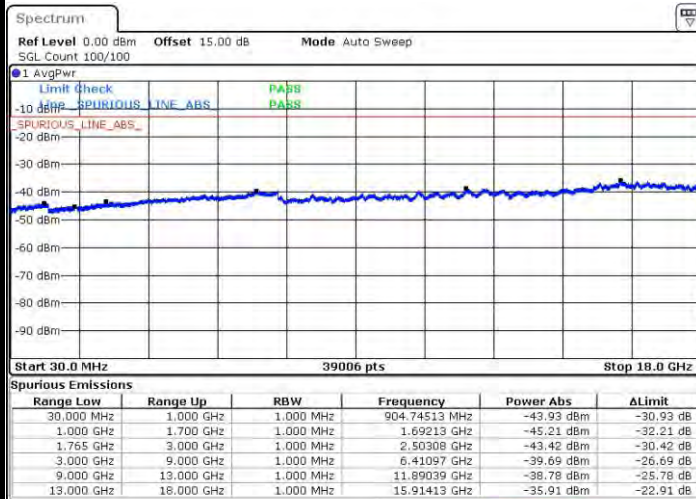
## Highest Channel / 16QAM



Date: 25 MAY 2015 15:09:22

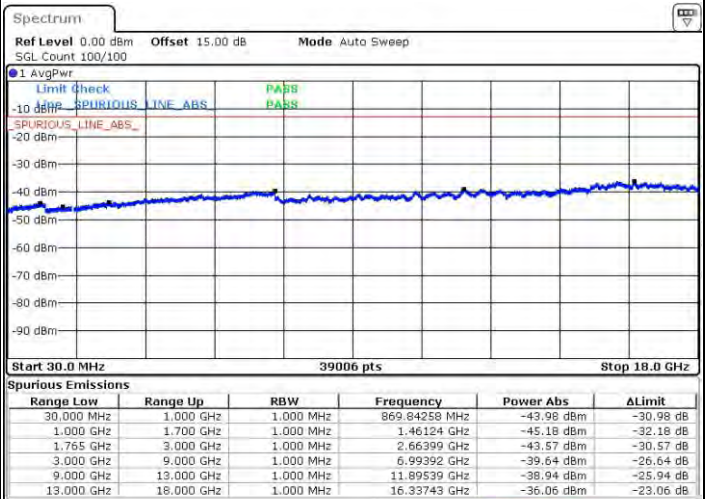
## LTE Band 4 / 3MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 15:16:01

## Lowest Channel / 16QAM

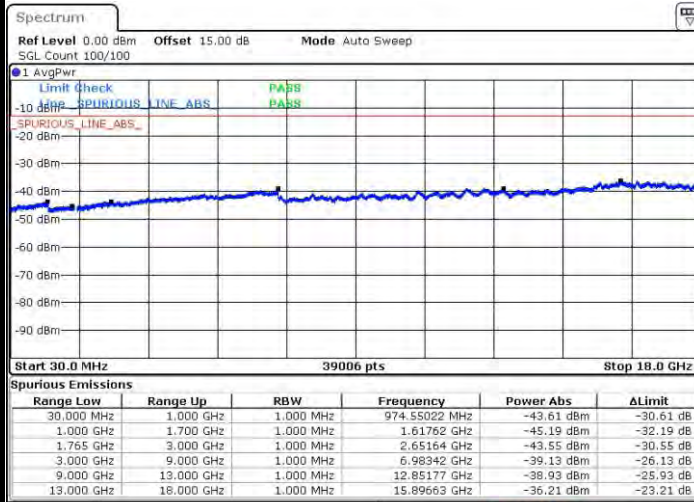


Date: 25 MAY 2015 15:17:11



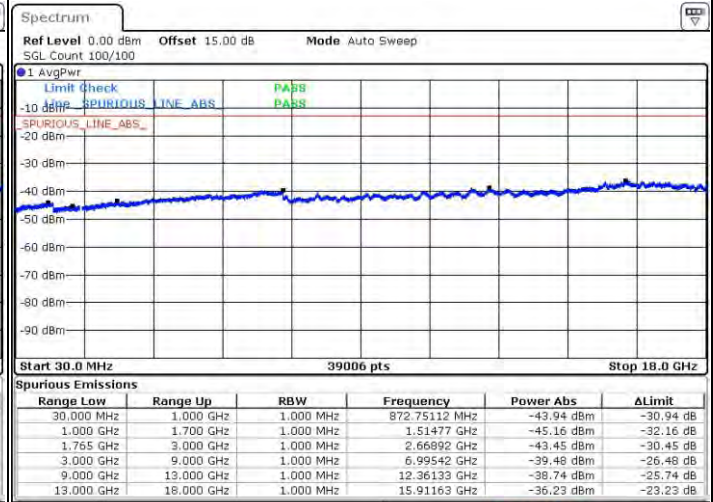
## LTE Band 4 / 3MHz

## Middle Channel / QPSK



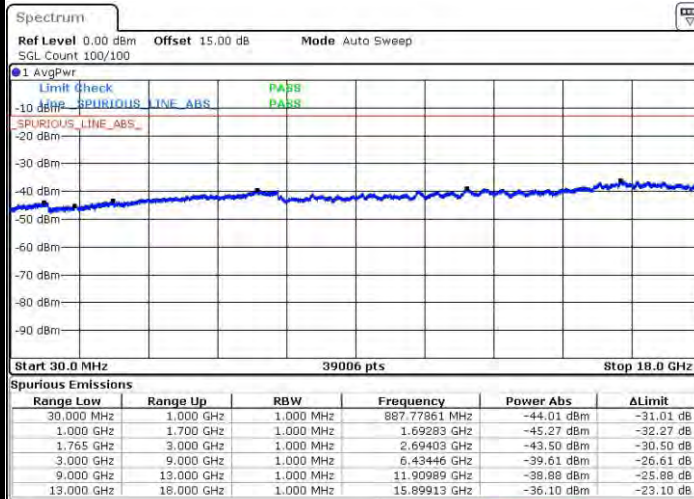
Date: 25 MAY 2015 15:19:07

## Middle Channel / 16QAM



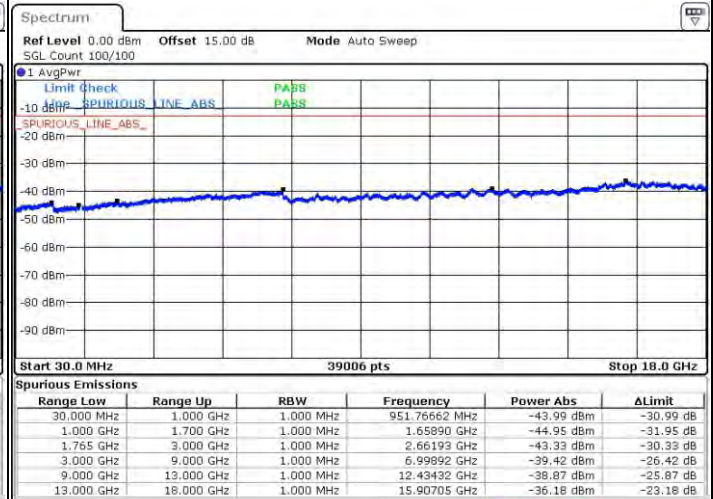
Date: 25 MAY 2015 15:20:17

## Highest Channel / QPSK



Date: 25 MAY 2015 15:28:55

## Highest Channel / 16QAM

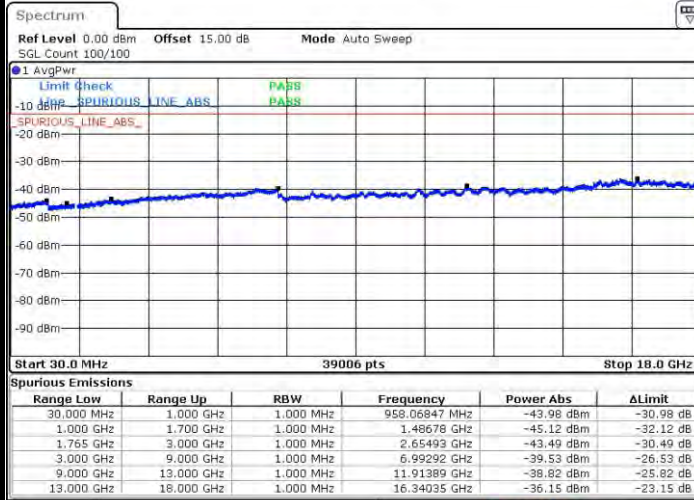


Date: 25 MAY 2015 15:28:04



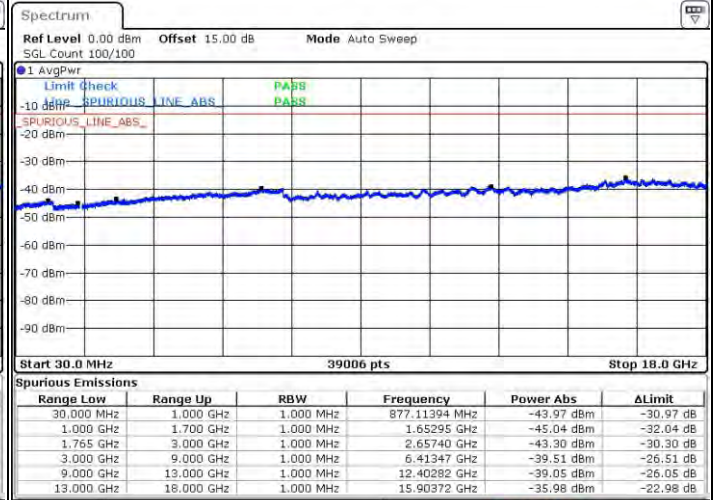
## LTE Band 4 / 5MHz

## Lowest Channel / QPSK



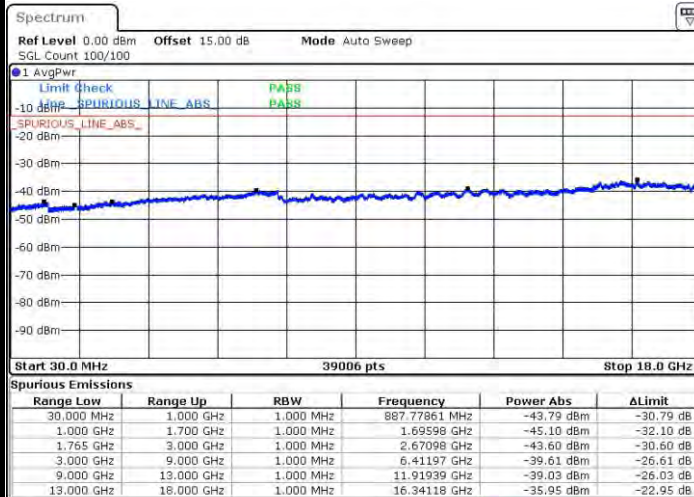
Date: 25 MAY 2015 15:34:41

## Lowest Channel / 16QAM



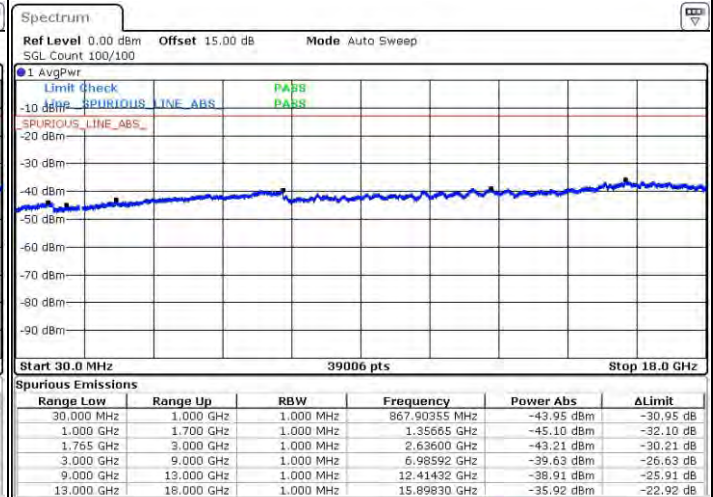
Date: 25 MAY 2015 15:35:50

## Middle Channel / QPSK



Date: 25 MAY 2015 15:37:47

## Middle Channel / 16QAM



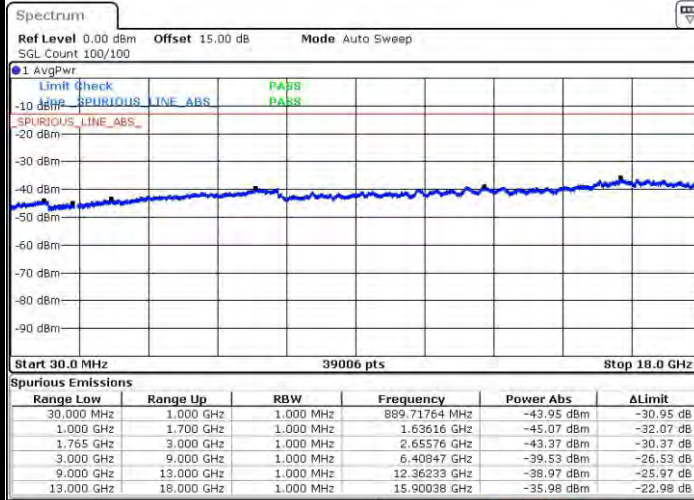
Date: 25 MAY 2015 15:38:56





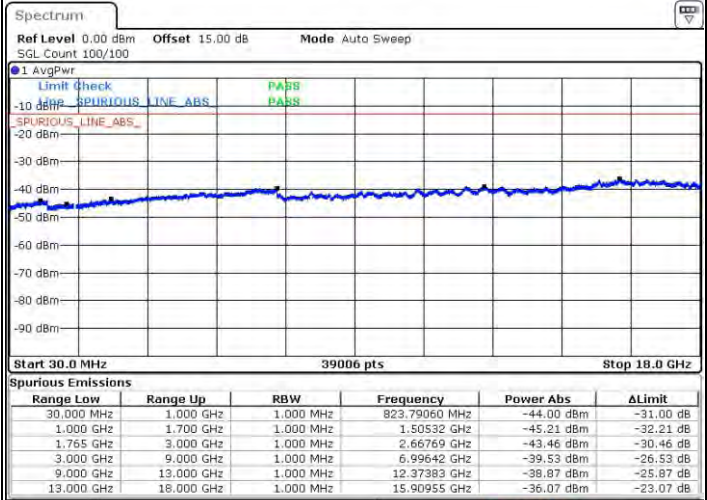
## LTE Band 4 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 15:45:34

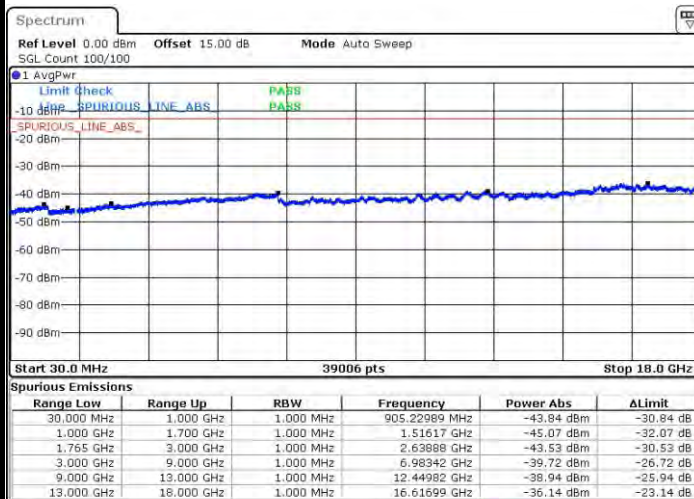
## Highest Channel / 16QAM



Date: 25 MAY 2015 15:46:43

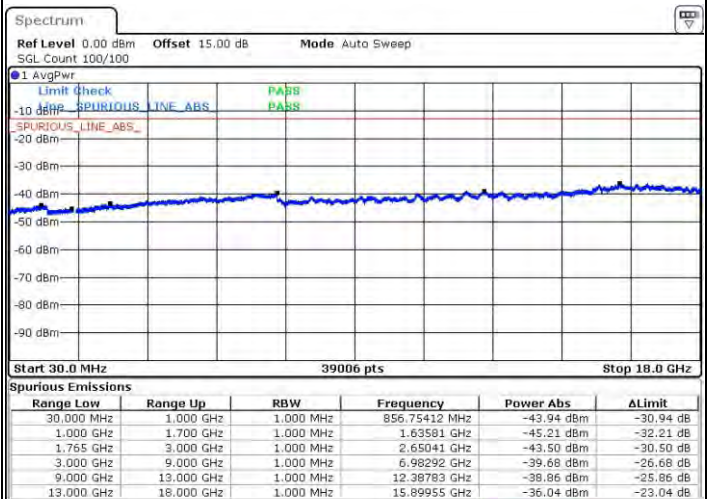
## LTE Band 4 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 15:53:18

## Lowest Channel / 16QAM

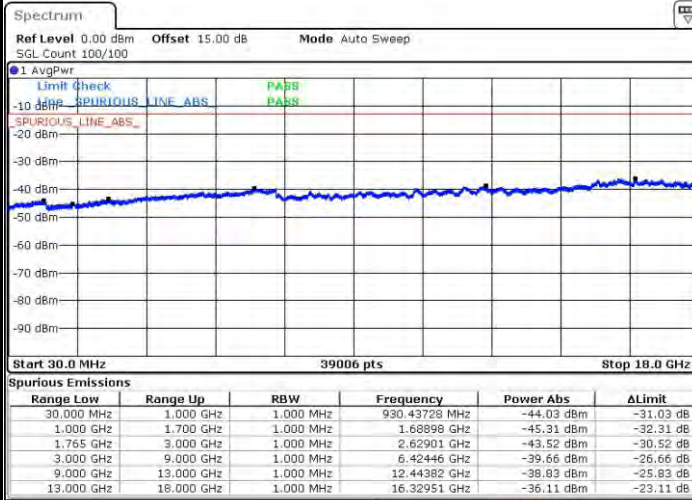


Date: 25 MAY 2015 15:54:27



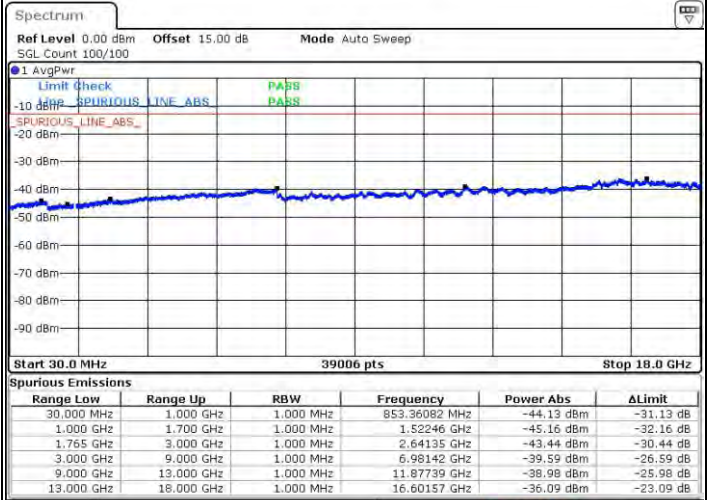
## LTE Band 4 / 10MHz

## Middle Channel / QPSK



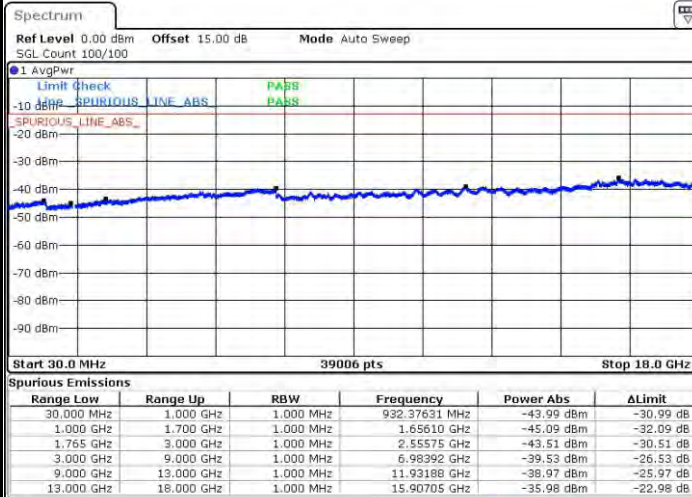
Date: 25 MAY 2015 15:56:24

## Middle Channel / 16QAM



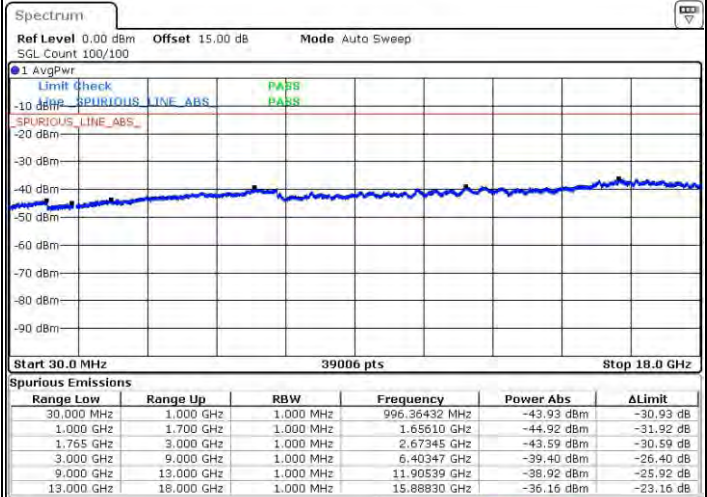
Date: 25 MAY 2015 15:57:33

## Highest Channel / QPSK



Date: 25 MAY 2015 16:04:10

## Highest Channel / 16QAM

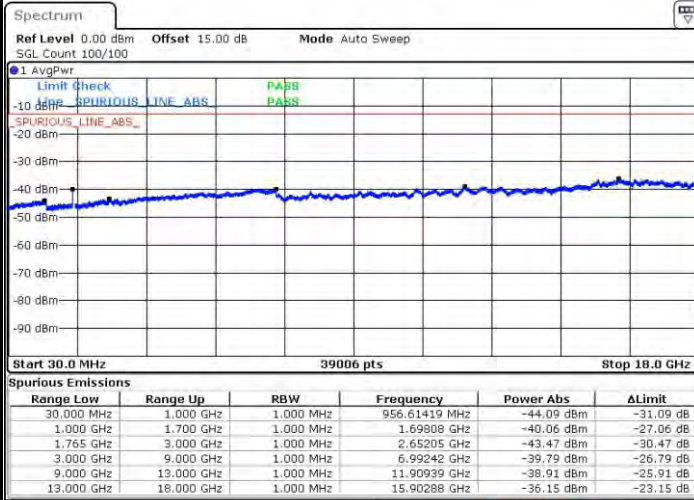


Date: 25 MAY 2015 16:05:19



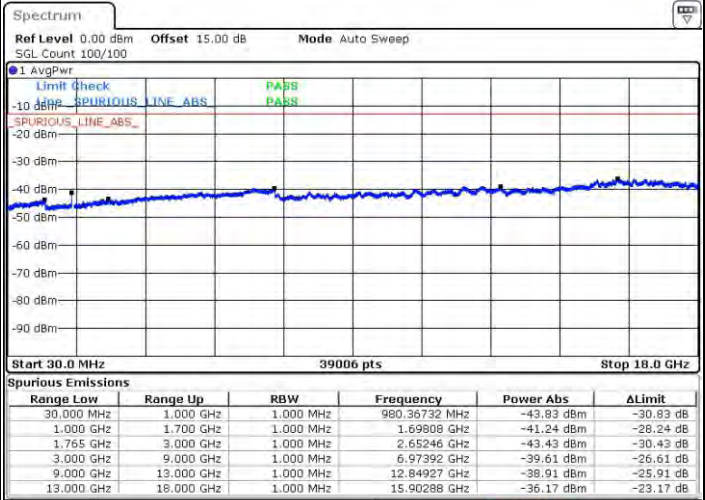
## LTE Band 4 / 15MHz

## Lowest Channel / QPSK



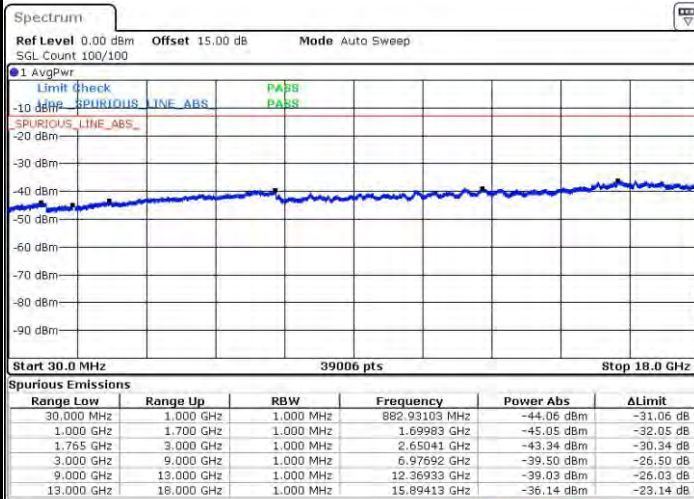
Date: 25 MAY 2015 16:11:58

## Lowest Channel / 16QAM



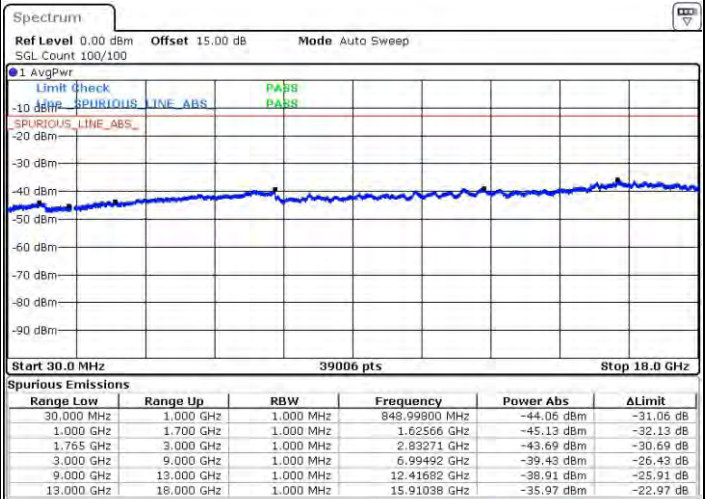
Date: 25 MAY 2015 16:13:07

## Middle Channel / QPSK



Date: 25 MAY 2015 16:15:03

## Middle Channel / 16QAM



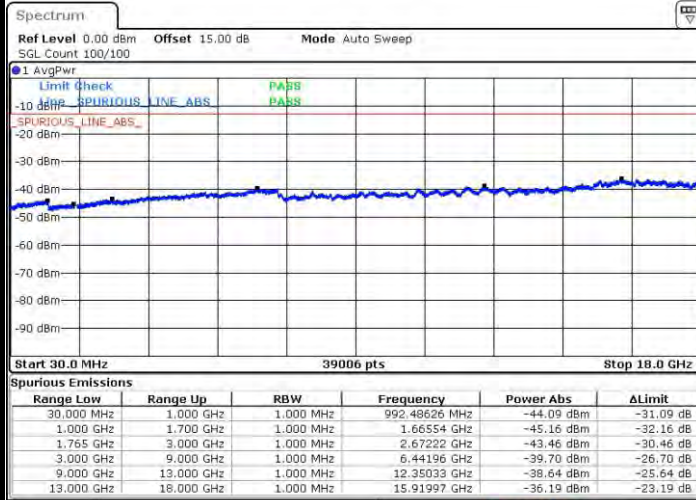
Date: 25 MAY 2015 16:16:12





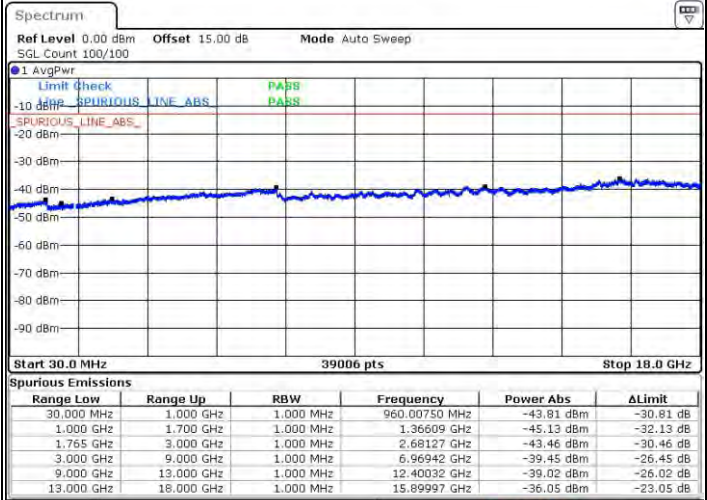
## LTE Band 4 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 16:22:51

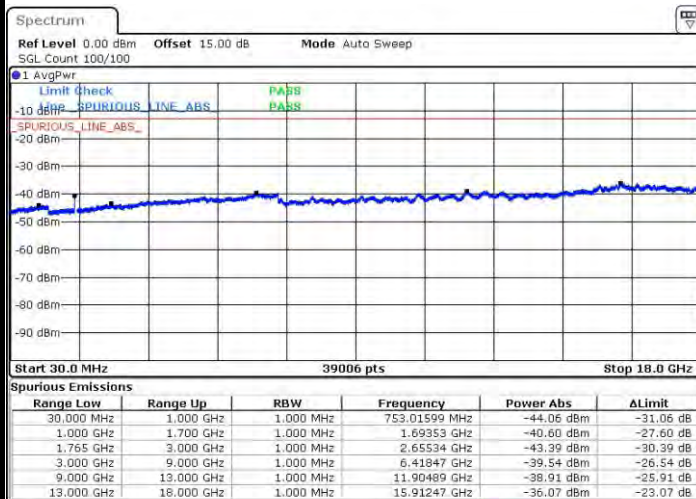
## Highest Channel / 16QAM



Date: 25 MAY 2015 16:24:00

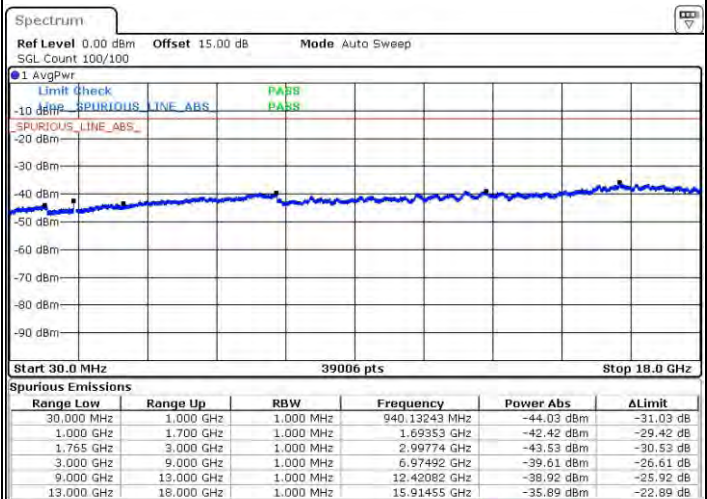
## LTE Band 4 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 16:30:39

## Lowest Channel / 16QAM

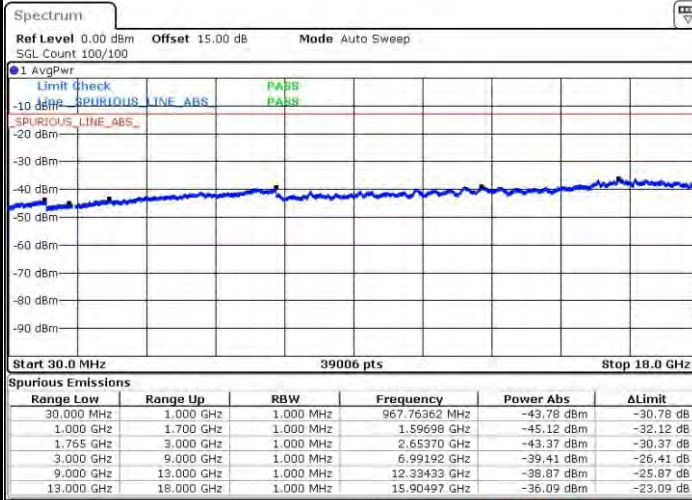


Date: 25 MAY 2015 16:31:48



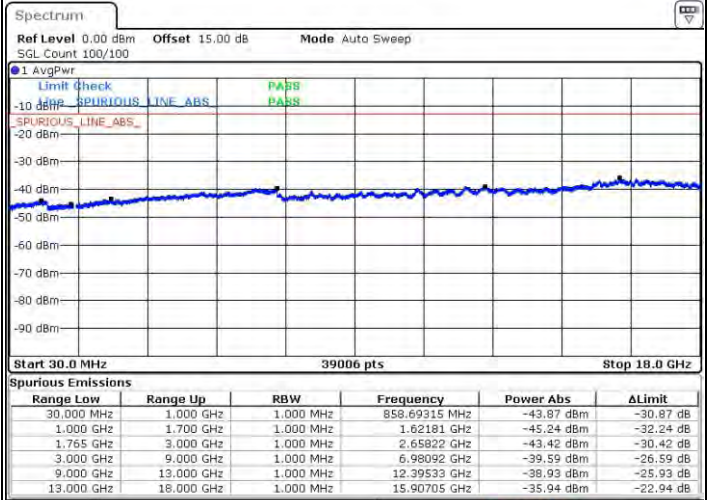
## LTE Band 4 / 20MHz

## Middle Channel / QPSK



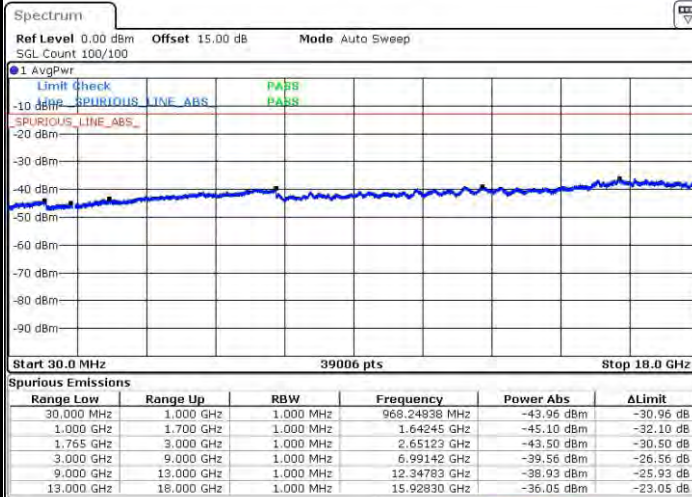
Date: 25 MAY 2015 16:33:44

## Middle Channel / 16QAM



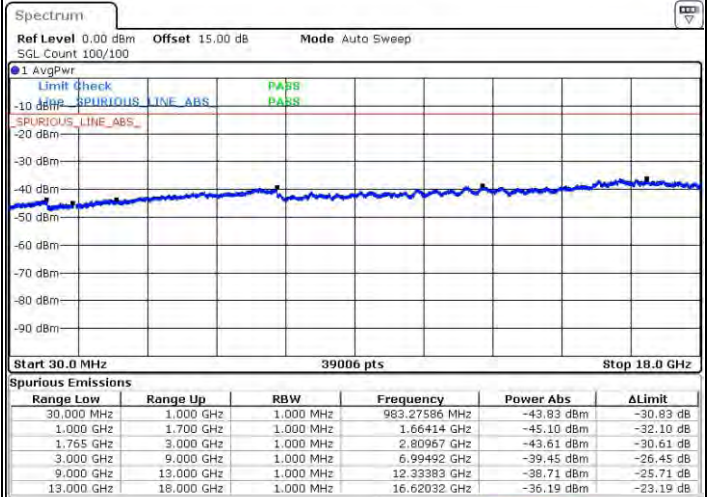
Date: 25 MAY 2015 16:34:54

## Highest Channel / QPSK



Date: 25 MAY 2015 16:41:32

## Highest Channel / 16QAM

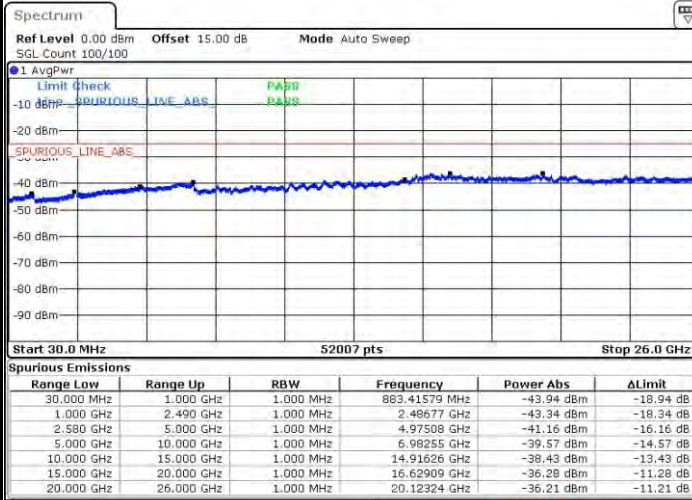


Date: 25 MAY 2015 16:42:41



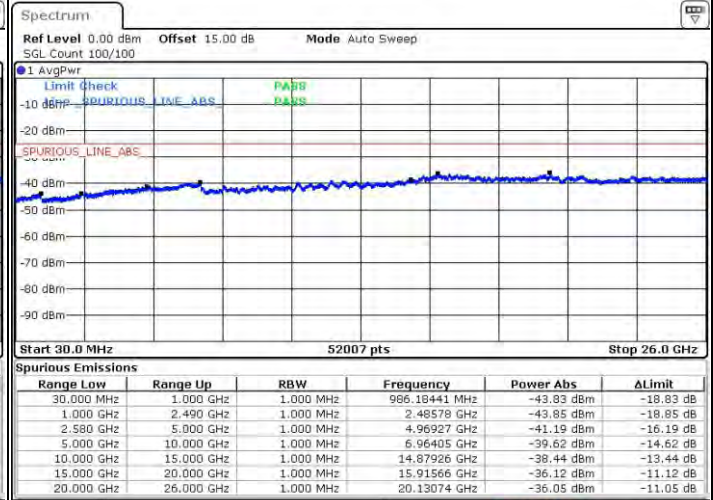
## LTE Band 7 / 5MHz

## Lowest Channel / QPSK



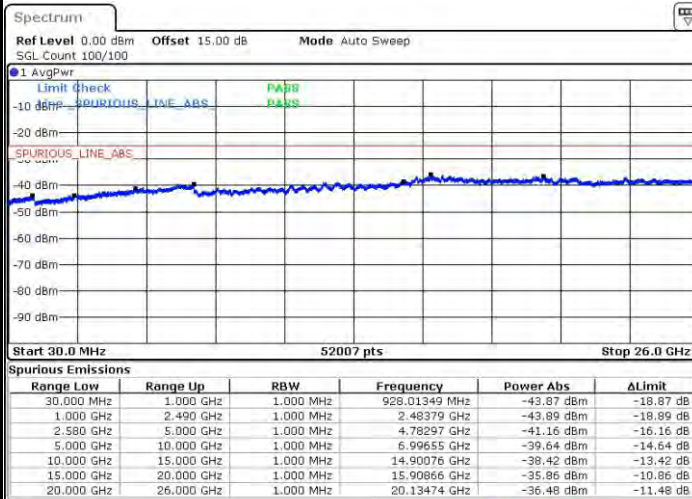
Date: 25 MAY 2015 17:28:33

## Lowest Channel / 16QAM



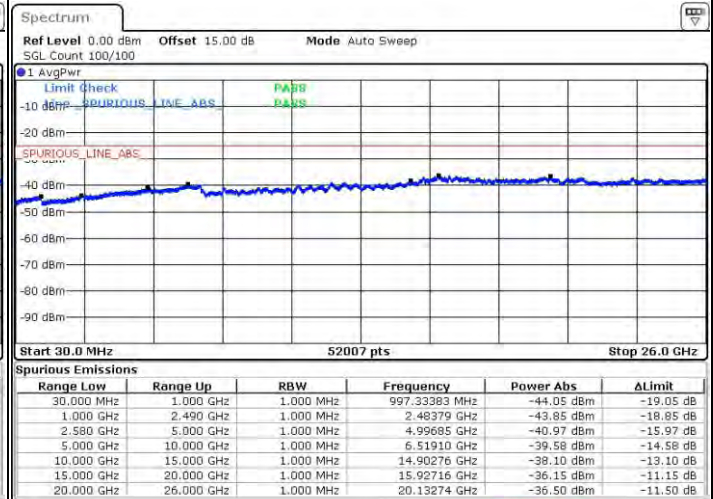
Date: 25 MAY 2015 17:29:42

## Middle Channel / QPSK



Date: 25 MAY 2015 17:31:39

## Middle Channel / 16QAM



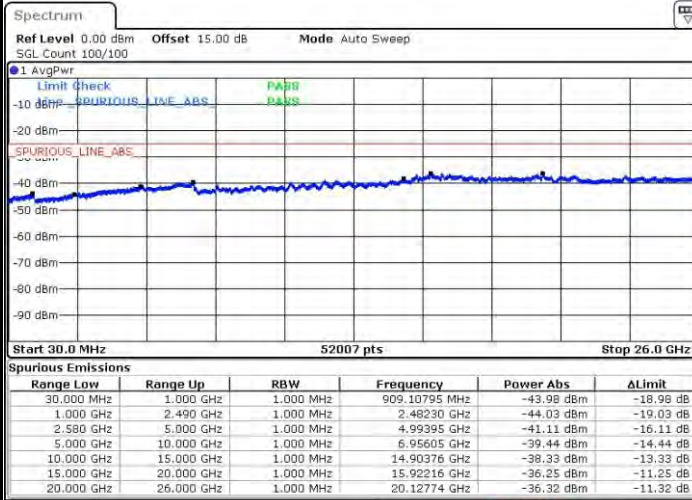
Date: 25 MAY 2015 17:32:48





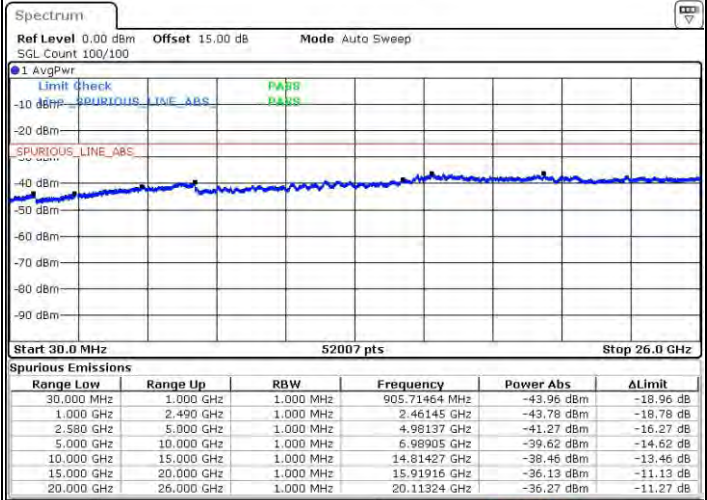
## LTE Band 7 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 17:58:11

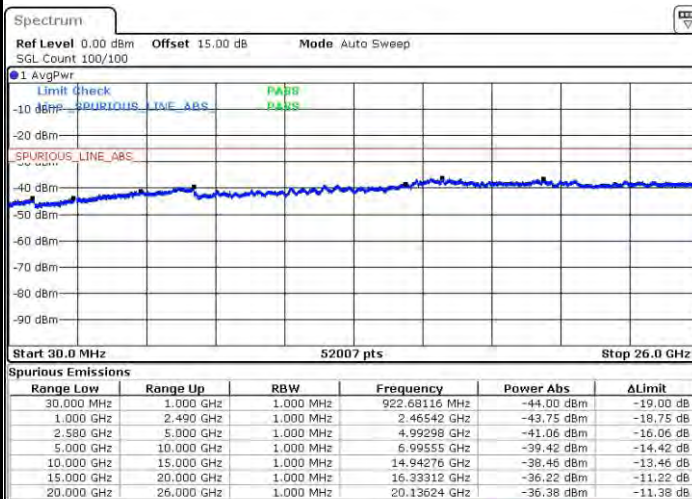
## Highest Channel / 16QAM



Date: 25 MAY 2015 17:59:21

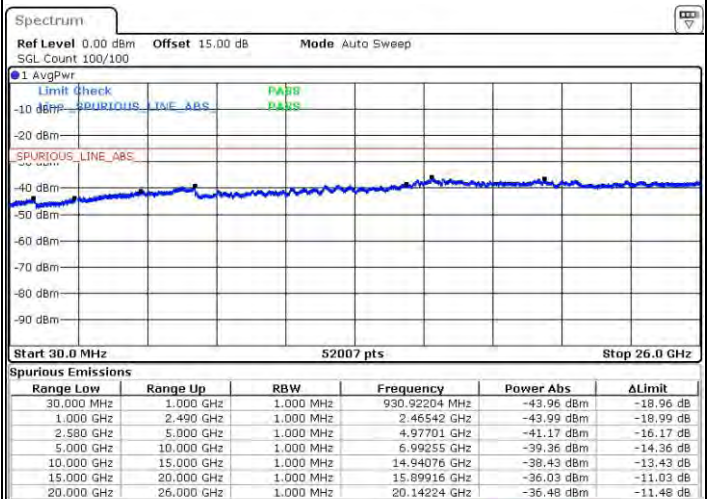
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 18:05:57

## Lowest Channel / 16QAM

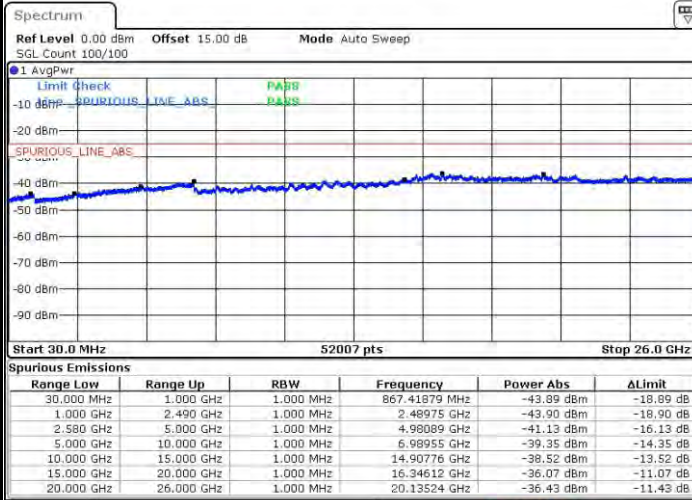


Date: 25 MAY 2015 18:07:06



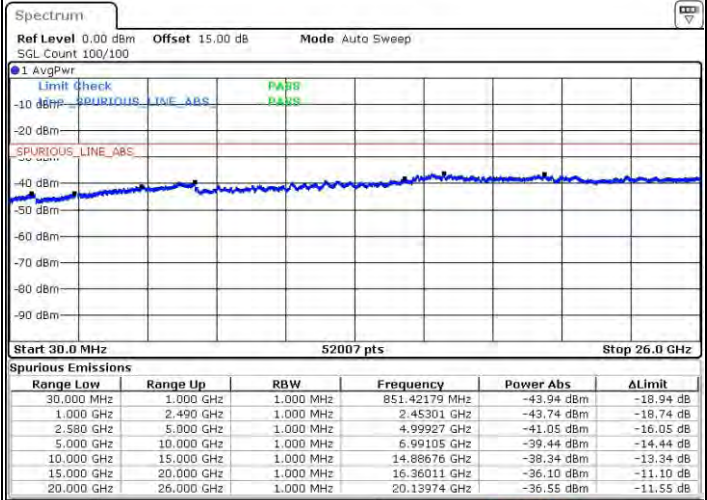
## LTE Band 7 / 10MHz

## Middle Channel / QPSK



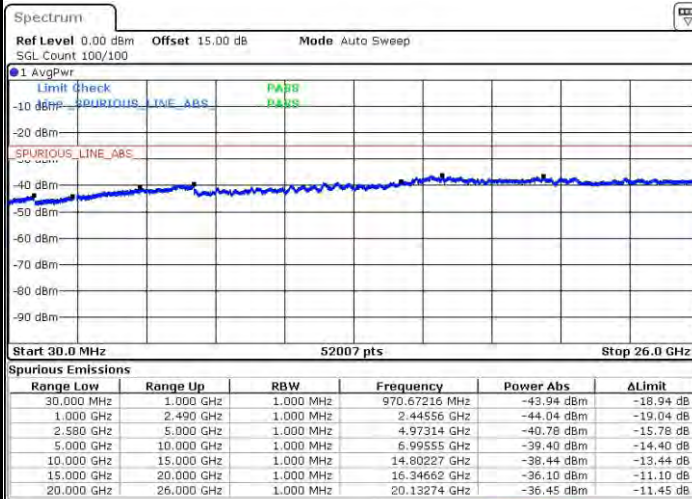
Date: 25 MAY 2015 18:08:03

## Middle Channel / 16QAM



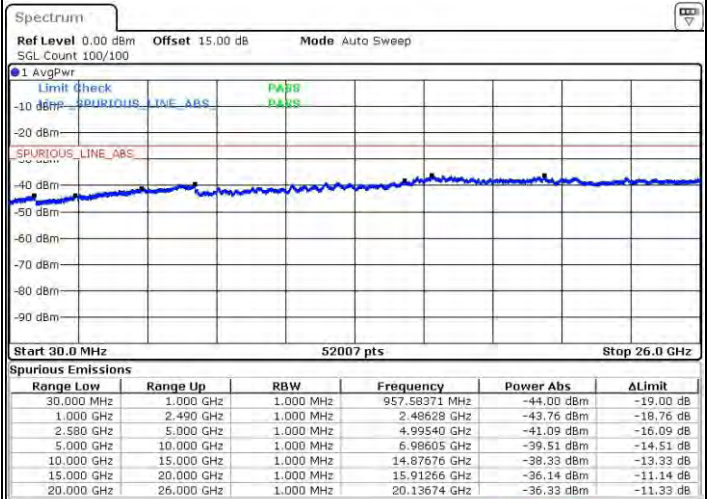
Date: 25 MAY 2015 18:10:12

## Highest Channel / QPSK



Date: 25 MAY 2015 18:16:52

## Highest Channel / 16QAM

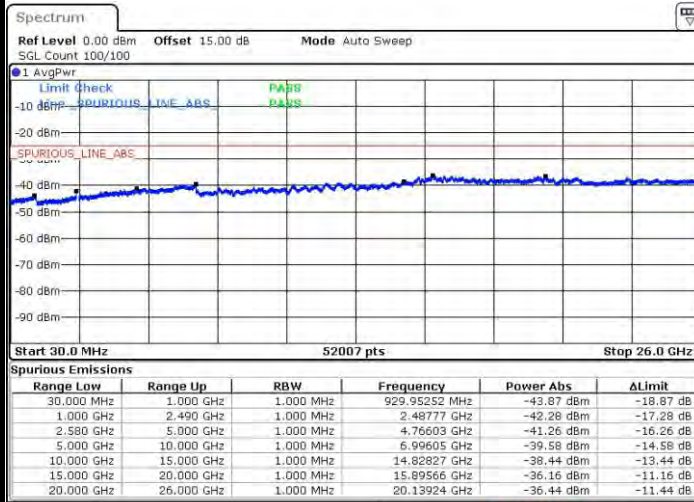


Date: 25 MAY 2015 18:18:01



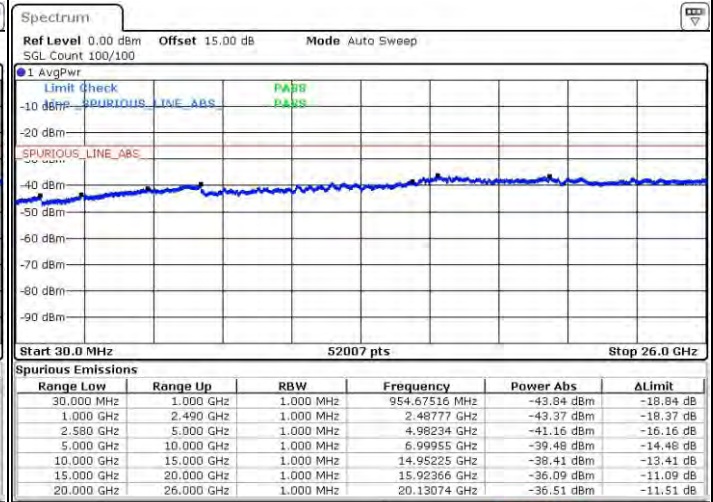
## LTE Band 7 / 15MHz

## Lowest Channel / QPSK



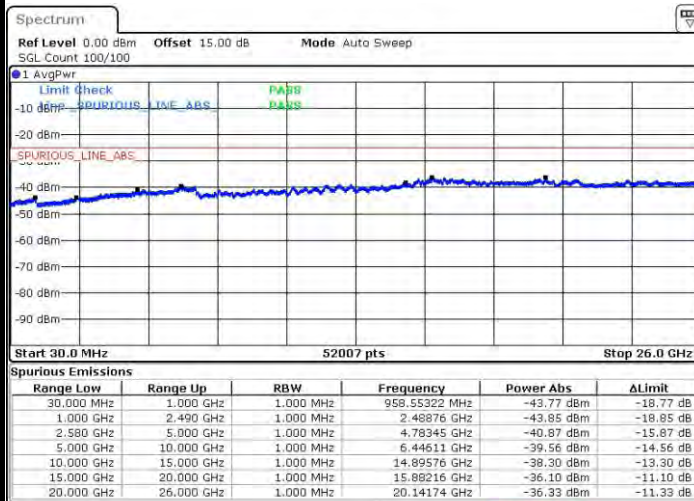
Date: 25 MAY 2015 18:24:35

## Lowest Channel / 16QAM



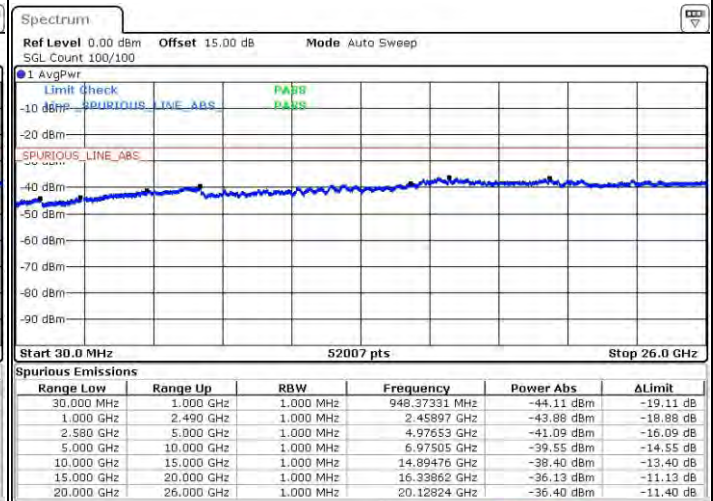
Date: 25 MAY 2015 18:25:45

## Middle Channel / QPSK



Date: 25 MAY 2015 18:27:42

## Middle Channel / 16QAM



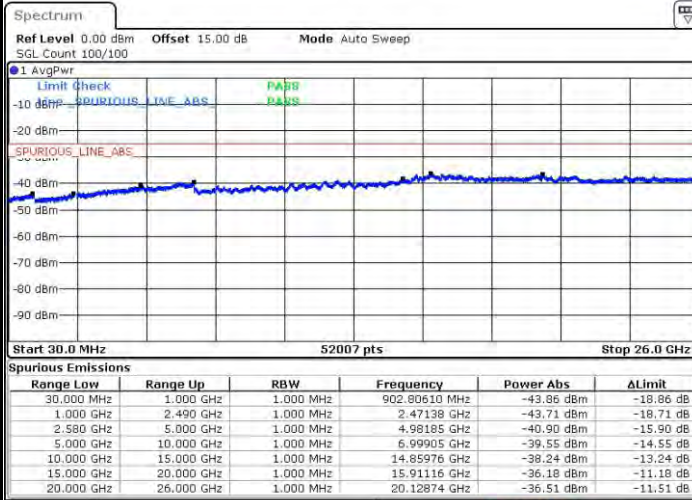
Date: 25 MAY 2015 18:28:51





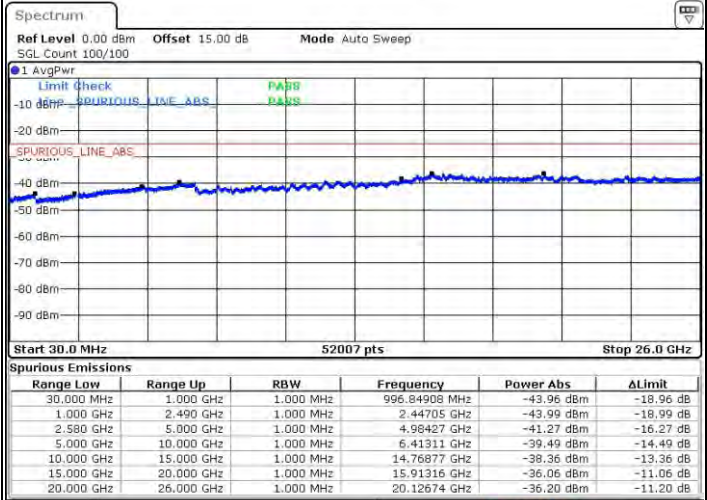
## LTE Band 7 / 15MHz

## Highest Channel / QPSK



Date: 25 MAY 2015 18:35:27

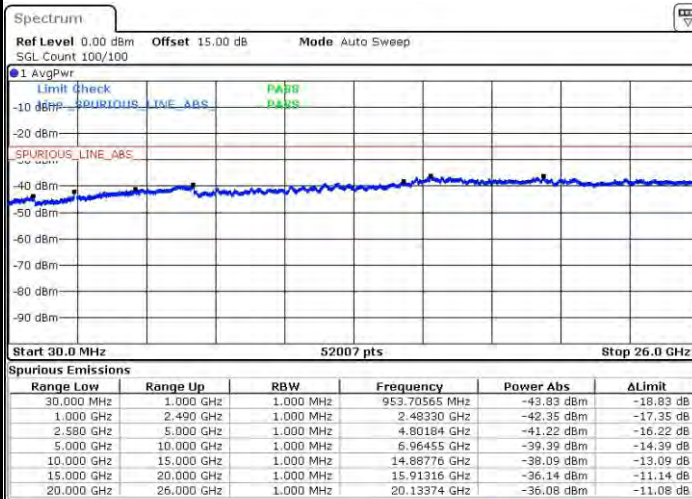
## Highest Channel / 16QAM



Date: 25 MAY 2015 18:36:37

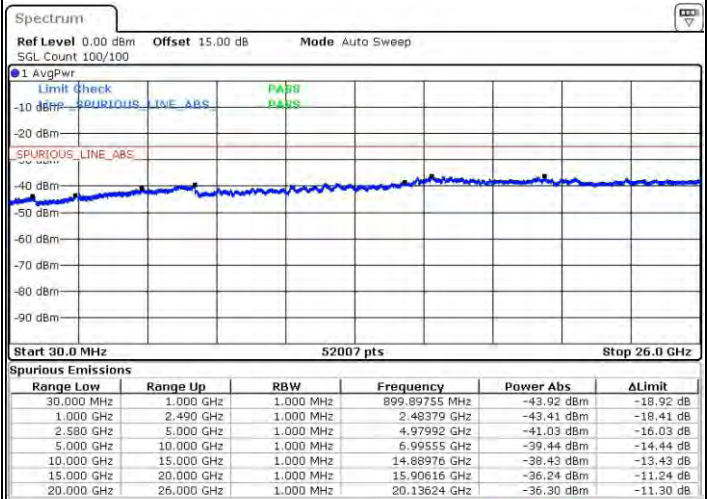
## LTE Band 7 / 20MHz

## Lowest Channel / QPSK



Date: 25 MAY 2015 19:00:04

## Lowest Channel / 16QAM

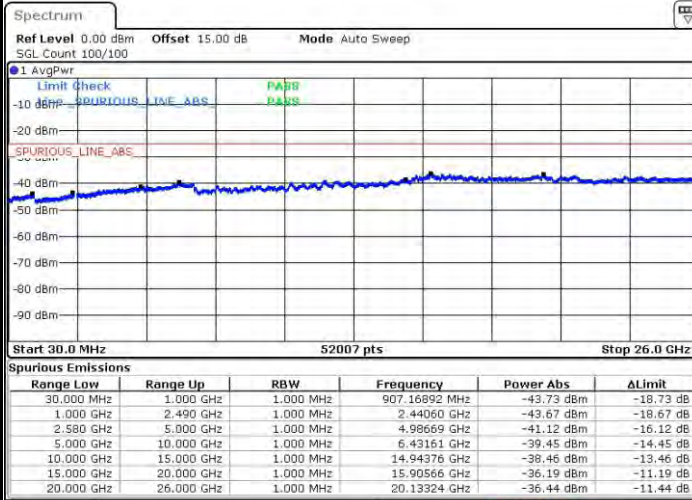


Date: 25 MAY 2015 19:01:13



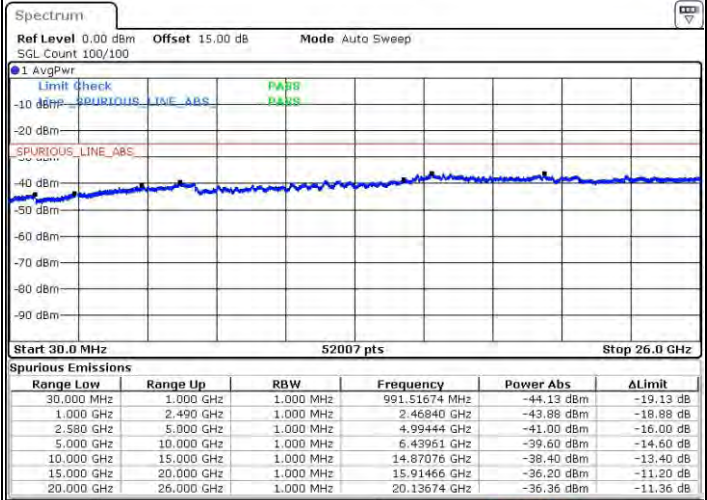
## LTE Band 7 / 20MHz

## Middle Channel / QPSK



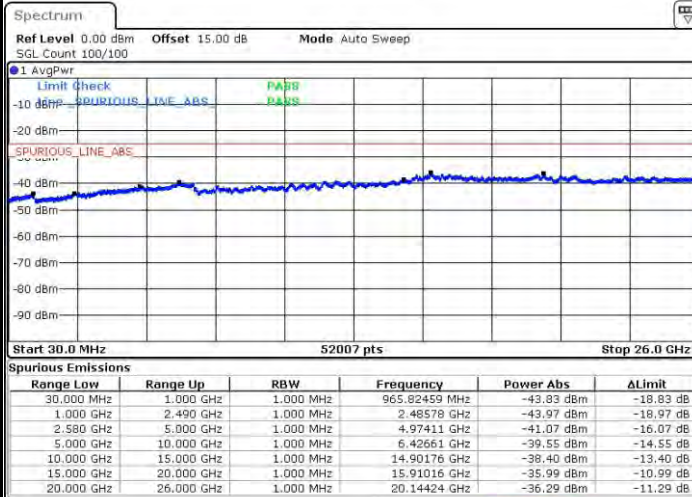
Date: 25 MAY 2015 19:03:10

## Middle Channel / 16QAM



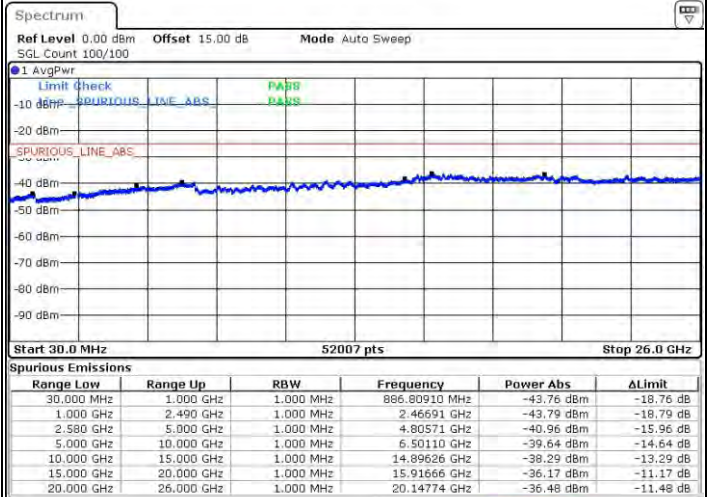
Date: 25 MAY 2015 19:04:19

## Highest Channel / QPSK



Date: 25 MAY 2015 19:10:53

## Highest Channel / 16QAM

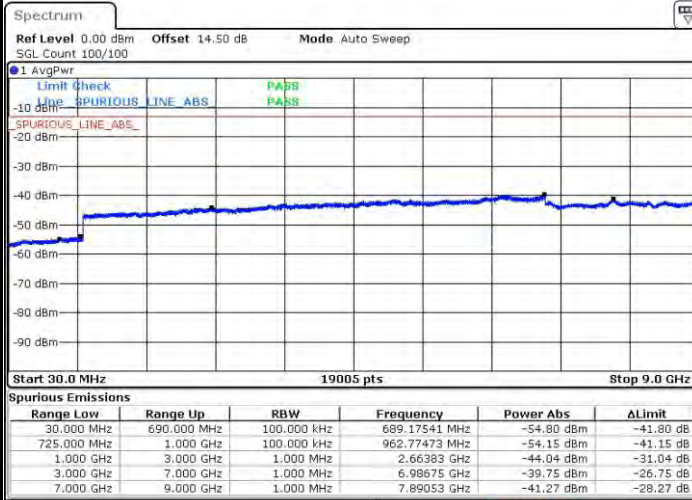


Date: 25 MAY 2015 19:12:03



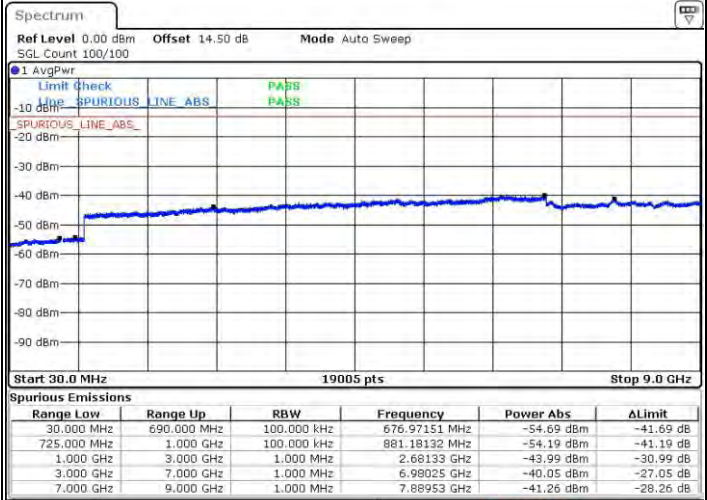
## LTE Band 17 / 5MHz

## Lowest Channel / QPSK



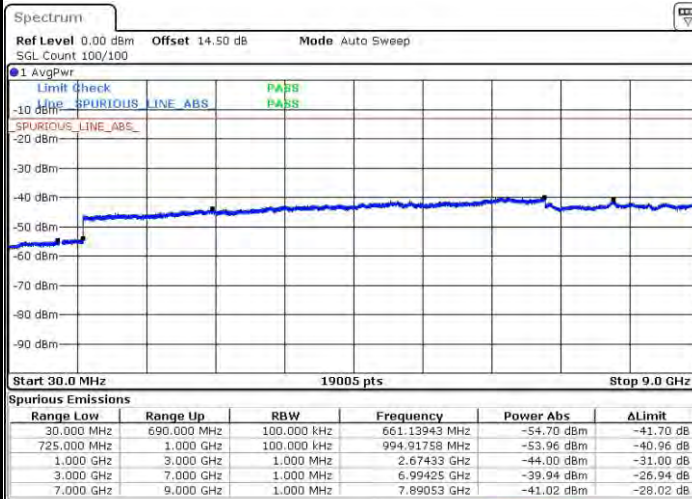
Date: 25 MAY 2015 12:53:14

## Lowest Channel / 16QAM



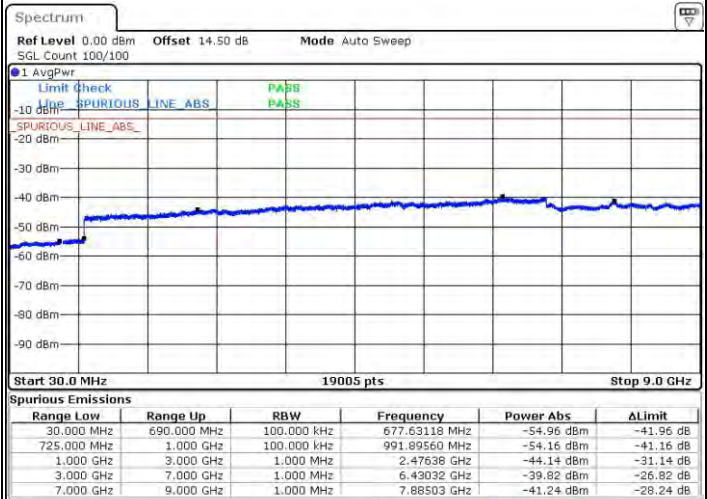
Date: 25 MAY 2015 13:22:17

## Middle Channel / QPSK



Date: 25 MAY 2015 13:24:13

## Middle Channel / 16QAM



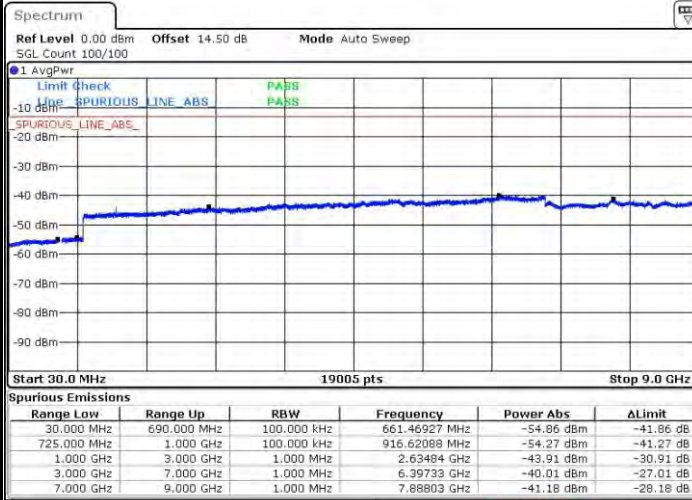
Date: 25 MAY 2015 13:25:22





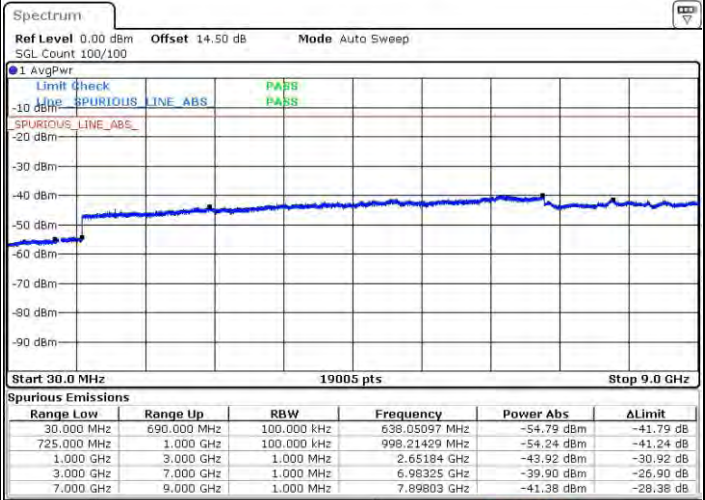
## LTE Band 17 / 5MHz

## Highest Channel / QPSK



Date: 25 MAY.2015 13:32:01

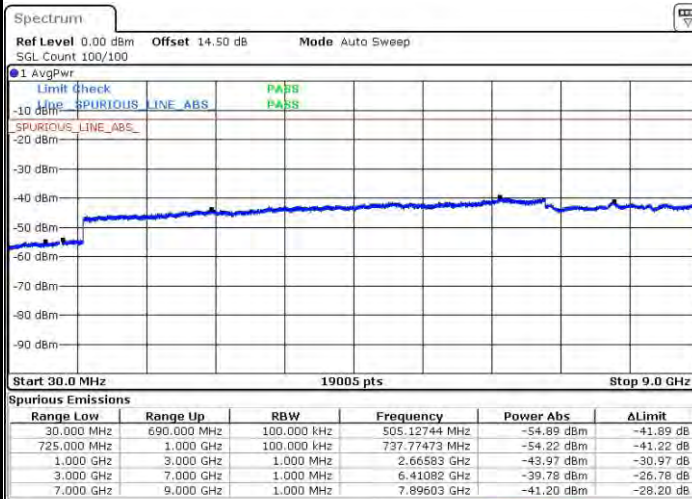
## Highest Channel / 16QAM



Date: 25 MAY.2015 13:33:10

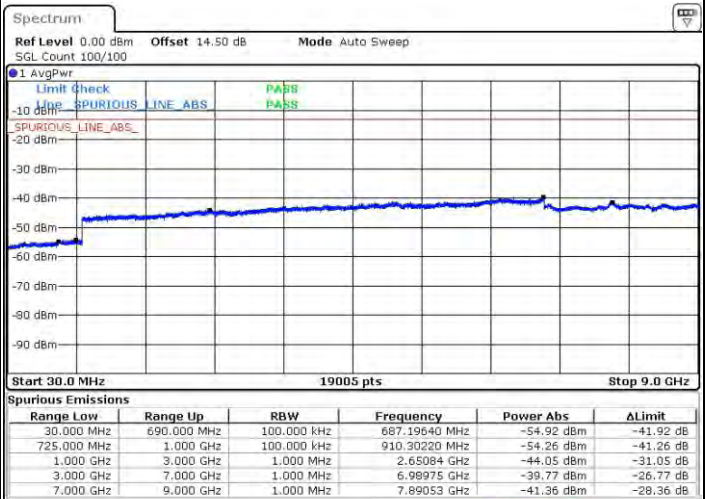
## LTE Band 17 / 10MHz

## Lowest Channel / QPSK



Date: 25 MAY.2015 13:39:55

## Lowest Channel / 16QAM

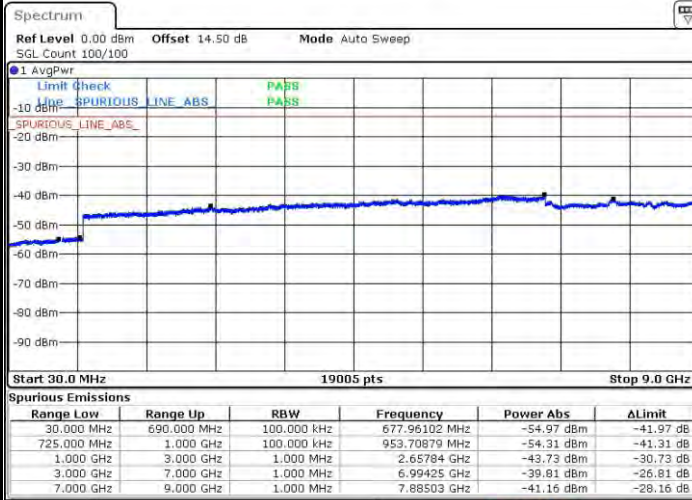


Date: 25 MAY.2015 13:41:04



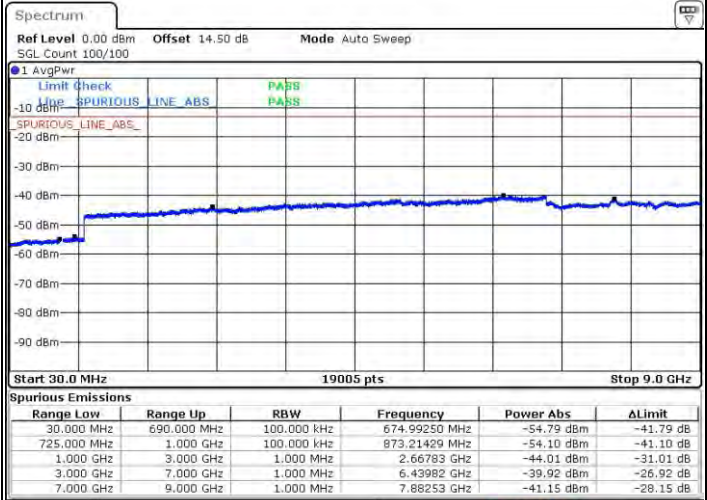
## LTE Band 17 / 10MHz

## Middle Channel / QPSK



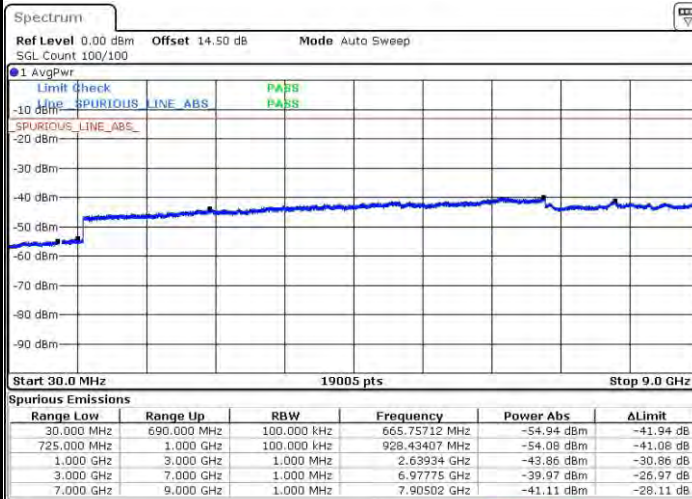
Date: 25 MAY 2015 13:43:07

## Middle Channel / 16QAM



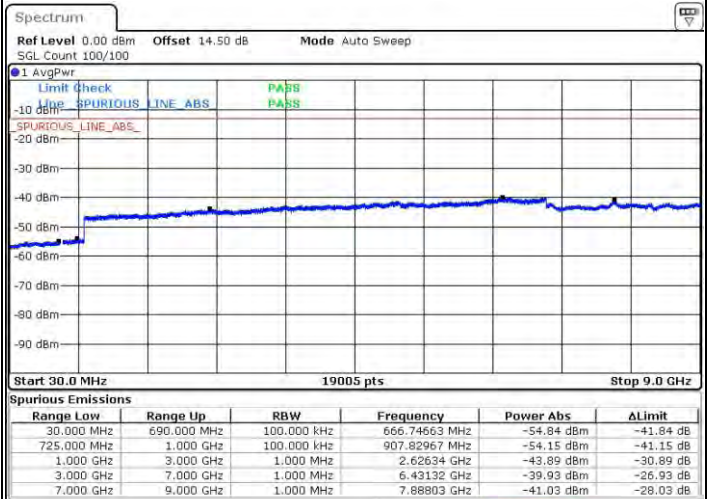
Date: 25 MAY 2015 13:44:18

## Highest Channel / QPSK



Date: 25 MAY 2015 13:51:15

## Highest Channel / 16QAM



Date: 25 MAY 2015 13:52:24

## Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0080	PASS
40	Normal Voltage	0.0074	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0080	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0085	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0000	

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0004	

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0113	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0113	
-10	Normal Voltage	0.0099	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0099	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0028	

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage =4.2 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 2 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	25.99	0.3972	24.06	0.2547
Middle		1	0	25.69	0.3707	24.65	0.2917
Highest		1	0	24.88	0.3076	24.23	0.2649
Lowest	16QAM	1	0	25.36	0.3436	23.69	0.2339
Middle		1	0	25.64	0.3664	24.73	0.2972
Highest		1	0	24.55	0.2851	23.91	0.2460
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.11	0.4083	24.13	0.2588
Middle		1	0	25.81	0.3811	24.87	0.3069
Highest		1	0	25.62	0.3648	25.14	0.3266
Lowest	16QAM	1	0	25.25	0.3350	23.79	0.2393
Middle		1	0	25.54	0.3581	24.36	0.2729
Highest		1	0	24.46	0.2793	23.74	0.2366
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.39	0.4355	24.64	0.2911
Middle		1	0	26.22	0.4188	25.08	0.3221
Highest		1	0	25.62	0.3648	24.95	0.3126
Lowest	16QAM	1	0	25.60	0.3631	23.89	0.2449
Middle		1	0	24.78	0.3006	23.96	0.2489
Highest		1	0	25.20	0.3311	24.56	0.2858
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.44	0.4406	24.28	0.2679
Middle		1	0	26.24	0.4207	24.93	0.3112
Highest		1	0	26.32	0.4285	25.62	0.3648
Lowest	16QAM	1	0	25.30	0.3388	23.61	0.2296
Middle		1	0	25.45	0.3508	24.55	0.2851
Highest		1	0	25.57	0.3606	25.10	0.3236
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.25	0.4217	24.27	0.2673
Middle		1	0	26.44	0.4406	25.11	0.3243
Highest		1	0	26.51	0.4477	25.88	0.3873
Lowest	16QAM	1	0	25.76	0.3767	23.93	0.2472
Middle		1	0	25.54	0.3581	24.64	0.2911
Highest		1	0	25.53	0.3573	25.13	0.3258
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.20	0.4169	24.61	0.2891
Middle		1	0	26.18	0.4150	24.88	0.3076
Highest		1	0	26.41	0.4375	25.59	0.3622
Lowest	16QAM	1	0	25.98	0.3963	23.77	0.2382
Middle		1	0	25.48	0.3532	24.13	0.2588
Highest		1	0	25.39	0.3459	24.84	0.3048
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.52	0.2831	24.20	0.2630
Middle		1	0	25.46	0.3516	25.27	0.3365
Highest		1	0	25.68	0.3698	25.22	0.3327
Lowest	16QAM	1	0	23.96	0.2489	23.53	0.2254
Middle		1	0	24.93	0.3112	24.84	0.3048
Highest		1	0	23.11	0.2046	21.94	0.1563
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.51	0.2825	23.98	0.2500
Middle		1	0	25.58	0.3614	25.48	0.3532
Highest		1	0	25.76	0.3767	25.29	0.3381
Lowest	16QAM	1	0	23.83	0.2415	23.45	0.2213
Middle		1	0	24.55	0.2851	25.16	0.3281
Highest		1	0	25.02	0.3177	25.01	0.3170
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.57	0.2864	23.95	0.2483
Middle		1	0	25.52	0.3565	25.27	0.3365
Highest		1	0	25.36	0.3436	25.18	0.3296
Lowest	16QAM	1	0	23.80	0.2399	23.28	0.2128
Middle		1	0	24.76	0.2992	24.54	0.2844
Highest		1	0	24.69	0.2944	24.05	0.2541
Limit	EIRP < 1W			Result		PASS	

LTE Band 4/ 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.74	0.2979	24.52	0.2831
Middle		1	0	25.57	0.3606	25.40	0.3467
Highest		1	0	25.75	0.3758	25.27	0.3365
Lowest	16QAM	1	0	23.92	0.2466	23.47	0.2223
Middle		1	0	24.82	0.3034	24.66	0.2924
Highest		1	0	25.16	0.3281	24.56	0.2858
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.51	0.2825	24.19	0.2624
Middle		1	0	25.54	0.3581	25.46	0.3516
Highest		1	0	25.78	0.3784	25.37	0.3443
Lowest	16QAM	1	0	23.93	0.2472	23.63	0.2307
Middle		1	0	24.89	0.3083	24.93	0.3112
Highest		1	0	24.63	0.2904	24.88	0.3076
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.64	0.4613	24.38	0.2742
Middle		1	0	25.69	0.3707	25.60	0.3631
Highest		1	0	26.13	0.4102	25.72	0.3733
Lowest	16QAM	1	0	24.03	0.2529	23.90	0.2455
Middle		1	0	25.18	0.3296	24.48	0.2805
Highest		1	0	24.60	0.2884	24.98	0.3148
Limit	EIRP < 1W			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	23.15	0.2065	14.09	0.0256
Middle		1	0	23.07	0.2028	15.09	0.0323
Highest		1	0	22.94	0.1968	15.85	0.0385
Lowest	16QAM	1	0	22.57	0.1807	13.37	0.0217
Middle		1	0	22.78	0.1897	14.73	0.0297
Highest		1	0	22.33	0.1710	15.01	0.0317
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	23.48	0.2228	14.21	0.0264
Middle		1	0	22.92	0.1959	14.84	0.0305
Highest		1	0	22.98	0.1986	16.02	0.0400
Lowest	16QAM	1	0	22.52	0.1786	12.96	0.0198
Middle		1	0	22.12	0.1629	14.17	0.0261
Highest		1	0	22.02	0.1592	15.19	0.0330
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	23.25	0.2113	13.78	0.0239
Middle		1	0	22.52	0.1786	14.30	0.0269
Highest		1	0	22.89	0.1945	15.75	0.0376
Lowest	16QAM	1	0	22.81	0.1910	13.54	0.0226
Middle		1	0	21.83	0.1524	13.86	0.0243
Highest		1	0	22.31	0.1702	15.13	0.0326
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	23.35	0.2163	13.85	0.0243
Middle		1	0	22.67	0.1849	14.72	0.0296
Highest		1	0	23.39	0.2183	16.34	0.0431
Lowest	16QAM	1	0	23.06	0.2023	13.58	0.0228
Middle		1	0	22.38	0.1730	14.25	0.0266
Highest		1	0	22.47	0.1766	15.40	0.0347
Limit	EIRP < 2W			Result		PASS	



LTE Band 17 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	15.84	0.0384	3.71	0.0023
Middle		1	0	15.94	0.0393	3.52	0.0022
Highest		1	0	16.07	0.0405	4.41	0.0028
Lowest	16QAM	1	0	15.36	0.0344	3.25	0.0021
Middle		1	0	15.24	0.0334	3.26	0.0021
Highest		1	0	15.46	0.0352	3.60	0.0023
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.00	0.0501	3.53	0.0023
Middle		1	0	16.46	0.0443	3.16	0.0021
Highest		1	0	16.50	0.0447	3.31	0.0021
Lowest	16QAM	1	0	15.94	0.0393	2.55	0.0018
Middle		1	0	15.81	0.0381	2.90	0.0019
Highest		1	0	15.76	0.0377	2.31	0.0017
Limit	ERP < 3W			Result		PASS	



## **Radiated Spurious Emission**





LTE Band 2 / 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	3759	-50.93	-13	-37.93	-65.13	-55.53	3	7.60	H
	5637	-47.08	-13	-34.08	-60.87	-53.34	3.84	10.10	H
	7518	-42.00	-13	-29.00	-61.78	-49.50	4.43	11.93	H
	3759	-52.17	-13	-39.17	-64.66	-56.77	3	7.60	V
	5637	-49.76	-13	-36.76	-62.17	-56.02	3.84	10.10	V
	7518	-45.27	-13	-32.27	-63.06	-52.77	4.43	11.93	V

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

LTE Band 2 / 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	3756	-51.50	-13	-38.50	-65.70	-56.10	3	7.60	H
	5637	-45.94	-13	-32.94	-59.73	-52.20	3.84	10.10	H
	7515	-42.60	-13	-29.60	-62.38	-50.10	4.43	11.93	H
	3756	-52.02	-13	-39.02	-64.51	-56.62	3	7.60	V
	5637	-47.63	-13	-34.63	-60.04	-53.89	3.84	10.10	V
	7515	-44.97	-13	-31.97	-62.76	-52.47	4.43	11.93	V

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



LTE Band 2 / 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)
Middle	3756	-51.97	-13	-38.97	-66.17	-56.57	3	7.60	H
	5634	-47.28	-13	-34.28	-61.07	-53.54	3.84	10.10	H
	7512	-42.32	-13	-29.32	-62.10	-49.82	4.43	11.93	H
	3756	-52.43	-13	-39.43	-64.92	-57.03	3	7.60	V
	5634	-48.04	-13	-35.04	-60.45	-54.30	3.84	10.10	V
	7512	-45.34	-13	-32.34	-63.13	-52.84	4.43	11.93	V

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

LTE Band 2 / 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	3750	-49.44	-13	-36.44	-63.64	-54.04	3	7.60	H
	5628	-45.47	-13	-32.47	-59.26	-51.73	3.84	10.10	H
	7503	-43.98	-13	-30.98	-63.76	-51.48	4.43	11.93	H
	3750	-50.74	-13	-37.74	-63.23	-55.34	3	7.60	V
	5628	-47.31	-13	-34.31	-59.72	-53.57	3.84	10.10	V
	7503	-44.63	-13	-31.63	-62.42	-52.13	4.43	11.93	V

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



LTE Band 2 / 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	3747	-51.97	-13	-38.97	-66.17	-56.57	3	7.60	H
	5622	-46.90	-13	-33.90	-60.69	-53.16	3.84	10.10	H
	7494	-42.12	-13	-29.12	-61.90	-49.62	4.43	11.93	H
	3747	-53.39	-13	-40.39	-65.88	-57.99	3	7.60	V
	5622	-49.12	-13	-36.12	-61.53	-55.38	3.84	10.10	V
	7494	-43.49	-13	-30.49	-61.28	-50.99	4.43	11.93	V

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

LTE Band 2 / 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	3741	-51.52	-13	-38.52	-65.72	-56.12	3	7.60	H
	5613	-47.09	-13	-34.09	-60.88	-53.35	3.84	10.10	H
	7485	-42.65	-13	-29.65	-62.43	-50.15	4.43	11.93	H
	3741	-53.42	-13	-40.42	-65.91	-58.02	3	7.60	V
	5613	-48.80	-13	-35.80	-61.21	-55.06	3.84	10.10	V
	7485	-45.26	-13	-32.26	-63.05	-52.76	4.43	11.93	V

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





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	3465	-51.66	-13	-38.66	-65.79	-56.03	3.12	7.49	H
	5196	-48.85	-13	-35.85	-62.00	-54.65	3.65	9.45	H
	6927	-44.72	-13	-31.72	-61.58	-51.92	4.15	11.35	H
	3465	-49.96	-13	-36.96	-62.78	-54.33	3.12	7.49	V
	5196	-47.69	-13	-34.69	-61.7	-53.49	3.65	9.45	V
	6927	-46.74	-13	-33.74	-61.99	-53.94	4.15	11.35	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	-51.43	-13	-38.43	-65.56	-55.80	3.12	7.49	H
	5193	-47.84	-13	-34.84	-60.99	-53.64	3.65	9.45	H
	6924	-43.94	-13	-30.94	-60.80	-51.14	4.15	11.35	H
	3462	-49.83	-13	-36.83	-62.65	-54.20	3.12	7.49	V
	5193	-48.55	-13	-35.55	-62.56	-54.35	3.65	9.45	V
	6924	-46.97	-13	-33.97	-62.22	-54.17	4.15	11.35	V

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



LTE Band 4 / 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)
Middle	3462	-52.01	-13	-39.01	-66.14	-56.38	3.12	7.49	H
	5193	-46.18	-13	-33.18	-59.33	-51.98	3.65	9.45	H
	6921	-44.77	-13	-31.77	-61.63	-51.97	4.15	11.35	H
	3462	-52.37	-13	-39.37	-65.19	-56.74	3.12	7.49	V
	5191	-48.16	-13	-35.16	-62.17	-53.96	3.65	9.45	V
	6921	-47.19	-13	-34.19	-62.44	-54.39	4.15	11.35	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	-49.53	-13	-36.53	-63.66	-53.90	3.12	7.49	H
	5187	-45.86	-13	-32.86	-59.01	-51.66	3.65	9.45	H
	6912	-44.21	-13	-31.21	-61.07	-51.41	4.15	11.35	H
	3456	-46.19	-13	-33.19	-60.32	-50.56	3.12	7.49	V
	5184	-46.82	-13	-33.82	-60.83	-52.62	3.65	9.45	V
	6912	-45.88	-13	-32.88	-61.13	-53.08	4.15	11.35	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	3453	-50.92	-13	-37.92	-65.05	-55.29	3.12	7.49	H
	5178	-46.13	-13	-33.13	-59.28	-51.93	3.65	9.45	H
	6903	-44.78	-13	-31.78	-61.64	-51.98	4.15	11.35	H
	3453	-52.61	-13	-39.61	-65.43	-56.98	3.12	7.49	V
	5178	-44.67	-13	-31.67	-58.68	-50.47	3.65	9.45	V
	6903	-46.45	-13	-33.45	-61.7	-53.65	4.15	11.35	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	-49.21	-13	-36.21	-63.34	-53.58	3.12	7.49	H
	5171	-49.16	-13	-36.16	-62.31	-54.96	3.65	9.45	H
	6894	-44.28	-13	-31.28	-61.14	-51.48	4.15	11.35	H
	3447	-49.79	-13	-36.79	-62.61	-54.16	3.12	7.49	V
	5171	-47.82	-13	-34.82	-61.83	-53.62	3.65	9.45	V
	6894	-45.55	-13	-32.55	-60.8	-52.75	4.15	11.35	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 )	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)
Middle	5066	-36.24	-25	-11.24	-53.67	-42.02	3.49	9.27	H
	7598	-44.92	-25	-19.92	-61.46	-52.71	4.28	12.07	H
	10132	-41.27	-25	-16.27	-62.66	-48.57	5.1	12.40	H
	5063	-30.74	-25	-5.74	-49.87	-36.52	3.49	9.27	V
	7598	-43.54	-25	-18.54	-60.56	-51.33	4.28	12.07	V
	10132	-42.47	-25	-17.47	-63.57	-49.77	5.1	12.40	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)
Middle	5060	-36.07	-25	-11.07	-53.52	-41.85	3.49	9.27	H
	7592	-45.25	-25	-20.25	-61.79	-53.04	4.28	12.07	H
	10120	-41.18	-25	-16.18	-62.57	-48.48	5.1	12.40	H
	5060	-30.71	-25	-5.71	-49.85	-36.49	3.49	9.27	V
	7592	-44.05	-25	-19.05	-61.07	-51.84	4.28	12.07	V
	10120	-41.67	-25	-16.67	-62.77	-48.97	5.1	12.40	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)
Middle	5057	-40.36	-25	-15.36	-56.09	-46.14	3.49	9.27	H
	7586	-44.93	-25	-19.93	-61.47	-52.72	4.28	12.07	H
	10112	-41.44	-25	-16.44	-62.83	-48.74	5.1	12.40	H
	5057	-33.02	-25	-8.02	-51.63	-38.80	3.49	9.27	V
	7586	-43.71	-25	-18.71	-60.73	-51.50	4.28	12.07	V
	10112	-40.88	-25	-15.88	-61.98	-48.18	5.1	12.40	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)
Middle	5051	-40.33	-25	-15.33	-56.07	-46.11	3.49	9.27	H
	7577	-45.11	-25	-20.11	-61.65	-52.90	4.28	12.07	H
	10104	-42.52	-25	-17.52	-63.91	-49.82	5.1	12.40	H
	5051	-33.76	-25	-8.76	-52.17	-39.54	3.49	9.27	V
	7577	-45.32	-25	-20.32	-62.34	-53.11	4.28	12.07	V
	10104	-40.88	-25	-15.88	-61.98	-48.18	5.1	12.40	V

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



LTE Band 17 / 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)
Middle	1416	-60.06	-13	-47.06	-56.48	-61.04	1.75	4.88	H
	2124	-48.17	-13	-35.17	-55.82	-49.79	2.16	5.93	H
	2832	-53.08	-13	-40.08	-63.50	-55.11	2.48	6.66	H
	1416	-58.10	-13	-45.10	-56.57	-59.08	1.75	4.88	V
	2124	-51.85	-13	-38.85	-59.83	-53.47	2.16	5.93	V
	2832	-52.54	-13	-39.54	-64.05	-54.57	2.48	6.66	V

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

LTE Band 17 / 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)
Middle	1411	-59.68	-13	-46.68	-56.10	-60.66	1.75	4.88	H
	2118	-51.66	-13	-38.66	-57.67	-53.28	2.16	5.93	H
	2822	-53.79	-13	-40.79	-64.21	-55.82	2.48	6.66	H
	1412	-58.29	-13	-45.29	-56.76	-59.27	1.75	4.88	V
	2117	-51.72	-13	-38.72	-59.7	-53.34	2.16	5.93	V
	2822	-52.79	-13	-39.79	-64.3	-54.82	2.48	6.66	V

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