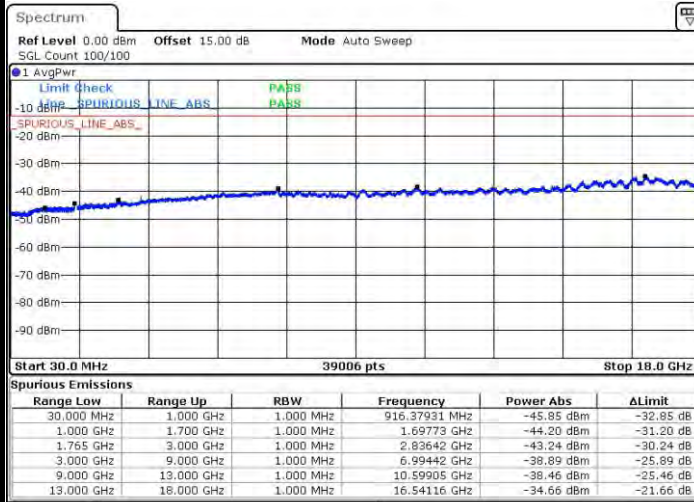




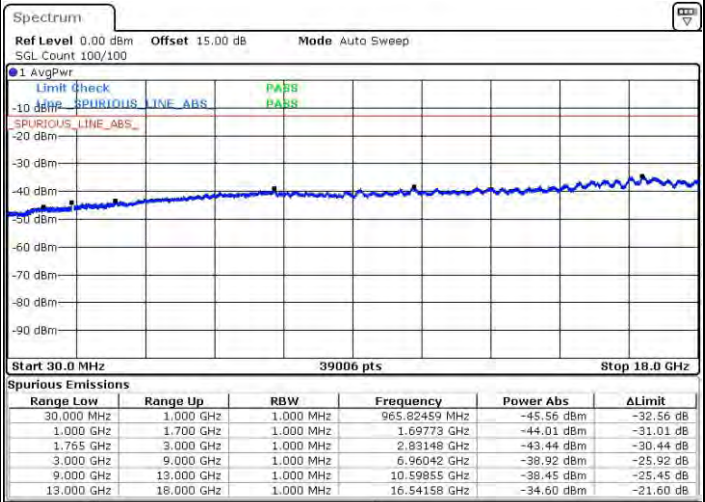
LTE Band 4 / 15MHz

Lowest Channel / QPSK



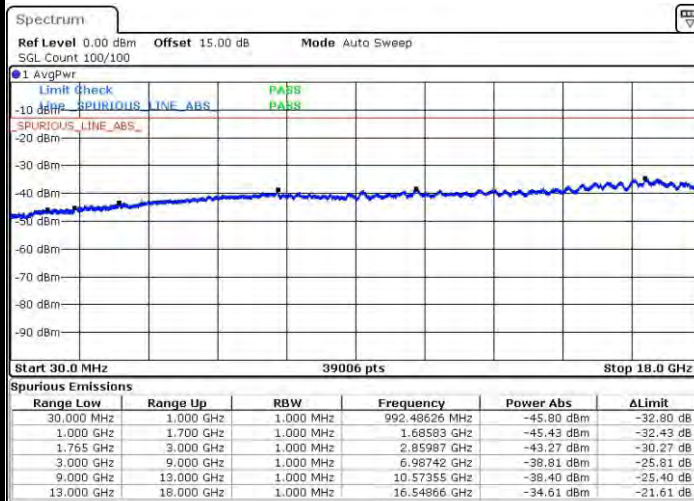
Date: 28.JAN.2015 16:52:25

Lowest Channel / 16QAM



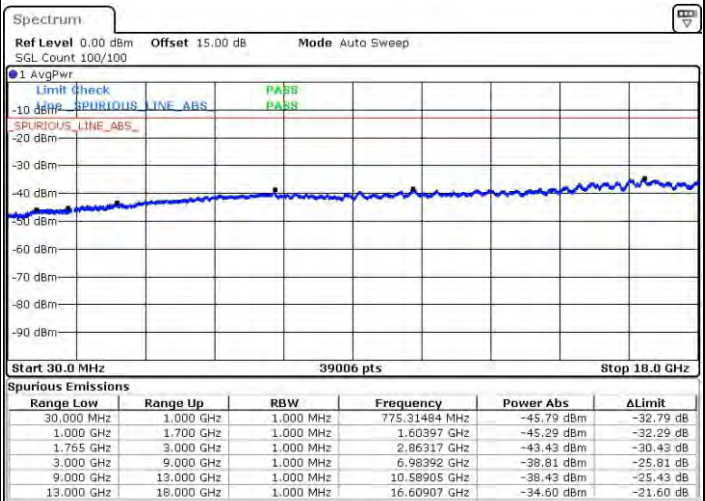
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Middle Channel / QPSK



Date: 28.JAN.2015 16:55:52

Middle Channel / 16QAM

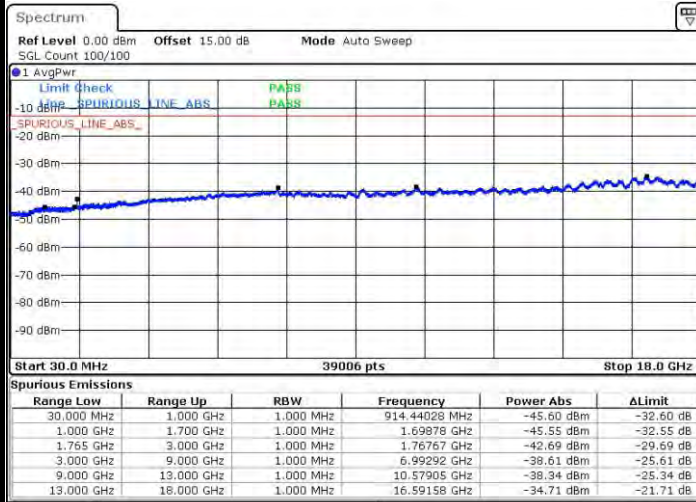


Date: 28.JAN.2015 16:57:13



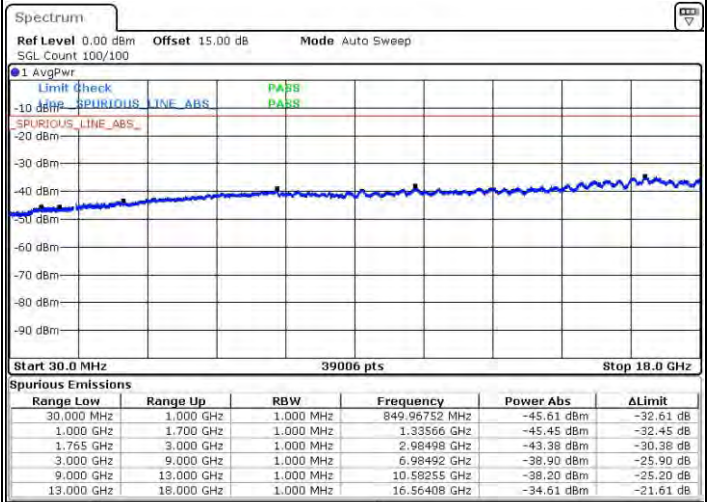
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 28.JAN.2015 17:04:46

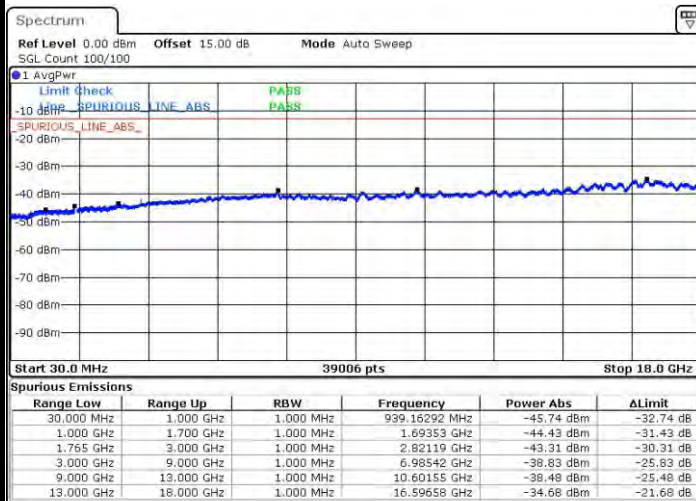
Highest Channel / 16QAM



Date: 28.JAN.2015 17:06:01

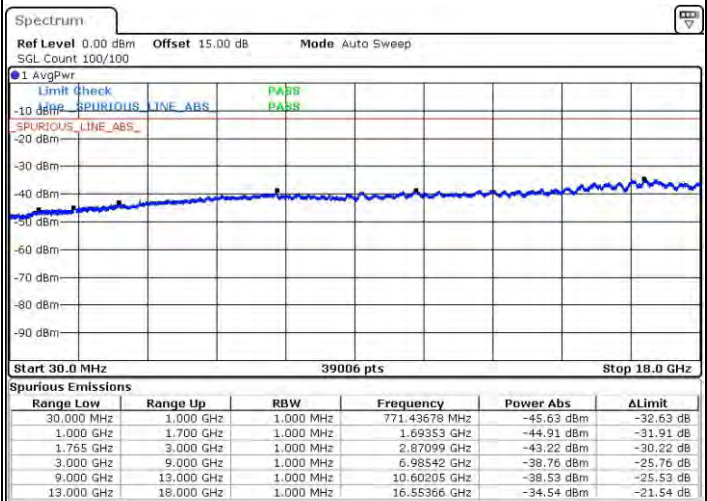
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 28.JAN.2015 17:14:59

Lowest Channel / 16QAM

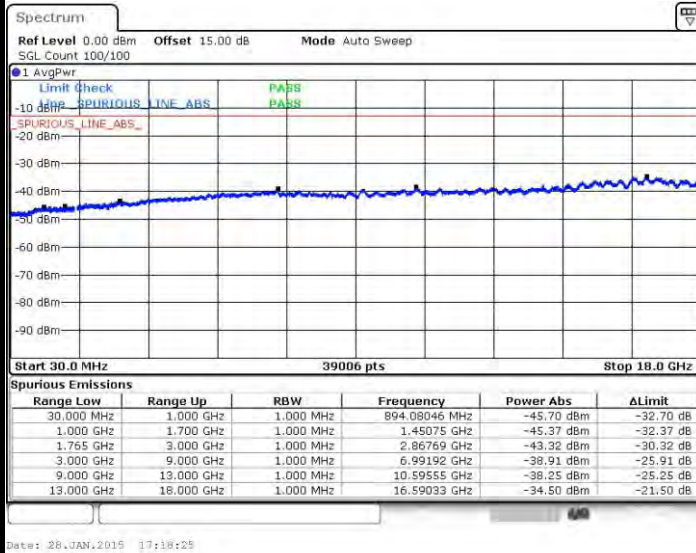


Date: 28.JAN.2015 17:16:20

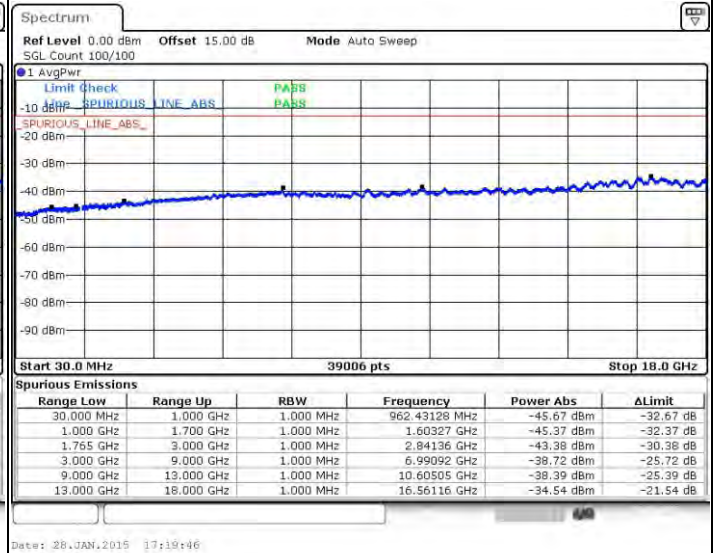


LTE Band 4 / 20MHz

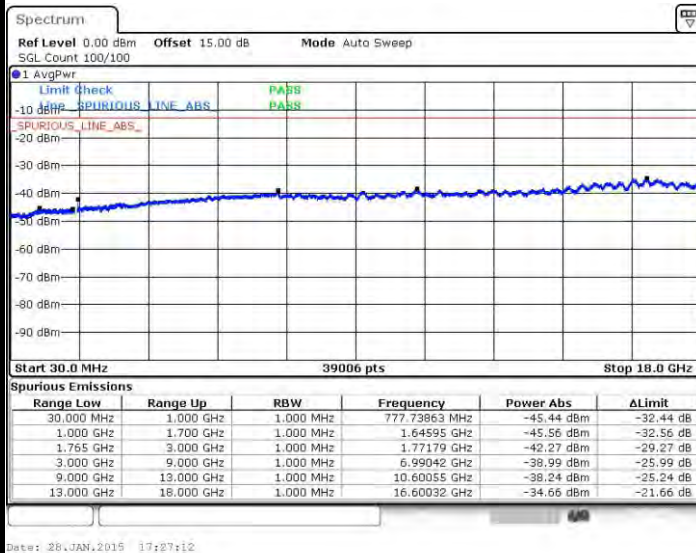
Middle Channel / QPSK



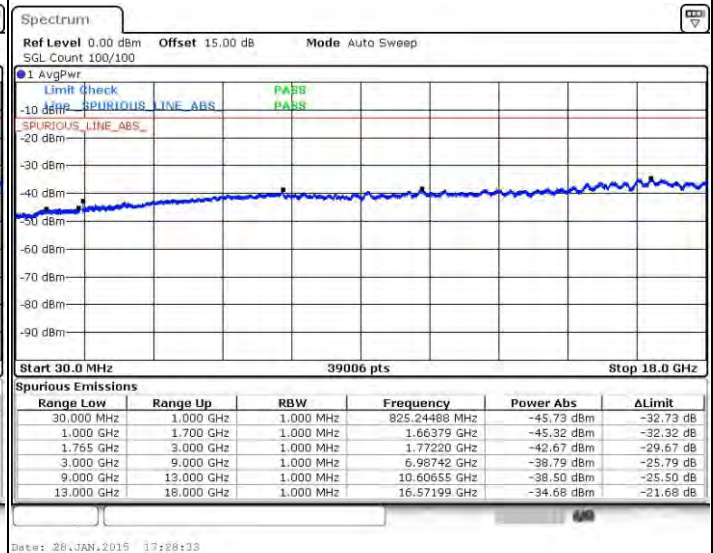
Middle Channel / 16QAM



Highest Channel / QPSK



Highest Channel / 16QAM



**Frequency Stability**

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0039	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage = 3.80V. ; Battery End Point (BEP) = 3.50 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 7

Conducted Output Power(Average power)

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.82	21.14	21.34
5	1	12		21.08	21.18	21.43
5	1	24		20.80	21.11	21.31
5	12	0		20.02	20.25	20.36
5	12	6		19.95	20.41	20.47
5	12	11		20.02	20.30	20.54
5	25	0		20.02	20.36	20.51
5	1	0	16-QAM	20.02	20.43	20.94
5	1	12		20.22	20.63	20.95
5	1	24		20.13	20.48	20.94
5	12	0		19.12	19.38	19.49
5	12	6		19.15	19.42	19.34
5	12	11		19.14	19.42	19.39
5	25	0		19.06	19.40	19.68
10	1	0	QPSK	21.09	21.38	21.44
10	1	24		21.06	21.35	21.43
10	1	49		21.05	21.34	21.42
10	25	0		20.16	20.37	20.41
10	25	12		20.08	20.38	20.58
10	25	24		20.00	20.40	20.54
10	50	0		20.10	20.46	20.58
10	1	0	16-QAM	20.29	20.63	20.66
10	1	24		20.09	20.52	20.76
10	1	49		20.00	20.60	20.75
10	25	0		19.20	19.52	19.59
10	25	12		19.05	19.43	19.56
10	25	24		19.13	19.44	19.50
10	50	0		19.14	19.43	19.50



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.26	21.35	21.32
15	1	37		21.29	21.24	21.34
15	1	74		21.19	21.30	21.33
15	36	0		20.17	20.23	20.42
15	36	18		20.07	20.33	20.35
15	36	37		20.07	20.36	20.45
15	75	0		20.12	20.30	20.39
15	1	0	16-QAM	20.31	20.84	20.92
15	1	37		20.17	20.91	20.95
15	1	74		20.28	20.86	20.91
15	36	0		19.28	19.39	19.40
15	36	18		19.26	19.28	19.33
15	36	37		19.28	19.32	19.42
15	75	0		19.10	19.27	19.38
20	1	0	QPSK	21.40	21.20	21.37
20	1	49		21.61	21.39	21.46
20	1	99		21.48	21.23	21.27
20	50	0		20.50	20.42	20.45
20	50	24		20.43	20.29	20.39
20	50	49		20.45	20.29	20.41
20	100	0		20.49	20.38	20.42
20	1	0	16-QAM	19.92	20.48	20.60
20	1	49		20.00	20.67	20.38
20	1	99		19.97	20.51	20.48
20	50	0		19.13	19.37	19.29
20	50	24		19.09	19.24	19.36
20	50	49		19.12	19.24	19.39
20	100	0		19.16	19.33	19.42



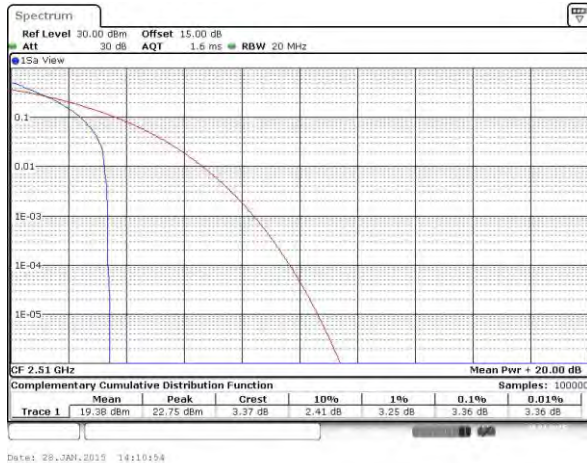
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	3.36	4.64	4.12	5.65	PASS
Middle CH	4.09	4.75	4.72	5.8	
Highest CH	3.94	4.9	5.1	5.86	

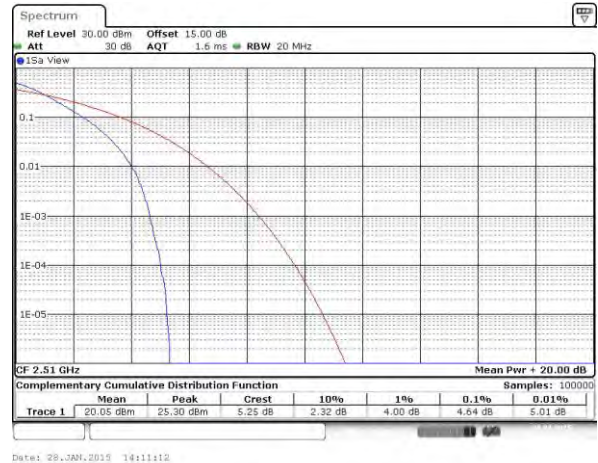


LTE Band 7 / 20MHz / QPSK

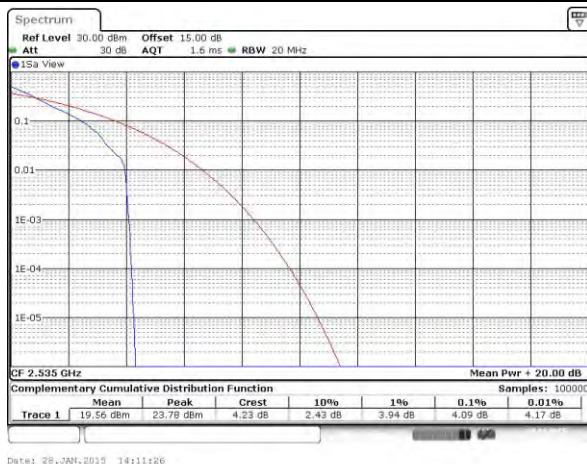
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



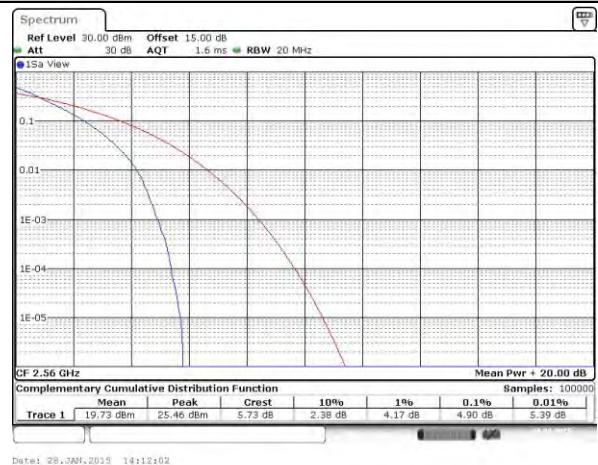
Middle Channel / Full RB



Highest Channel / 1RB



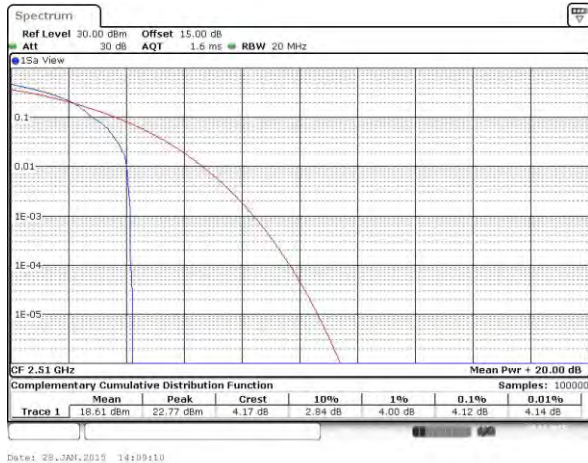
Highest Channel / Full RB



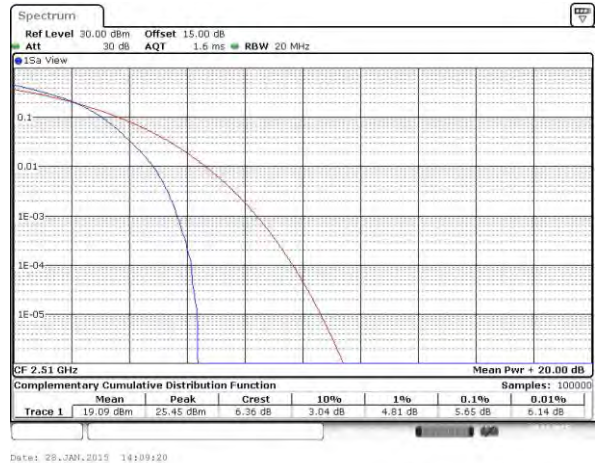


LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



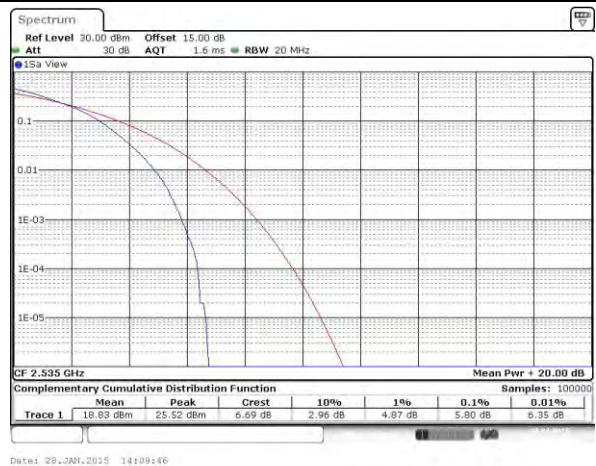
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



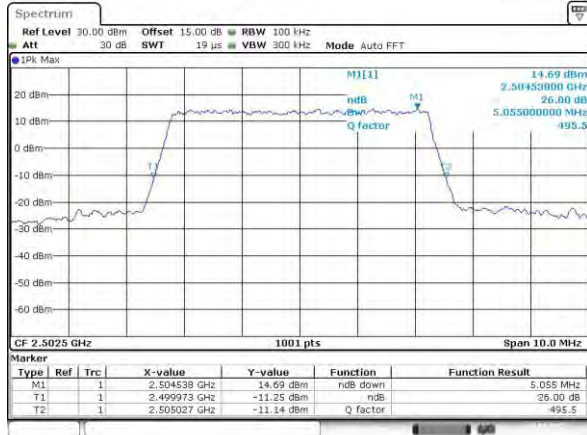
**26dB Bandwidth**

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	-	-	-	-	5.06	5.02	10.05	9.97	14.72	14.72	20.26	20.18
Middle CH	-	-	-	-	5.06	5.04	9.97	10.05	14.75	14.72	20.26	20.14
Highest CH	-	-	-	-	5.06	5.04	10.09	9.97	14.72	14.80	20.46	20.46

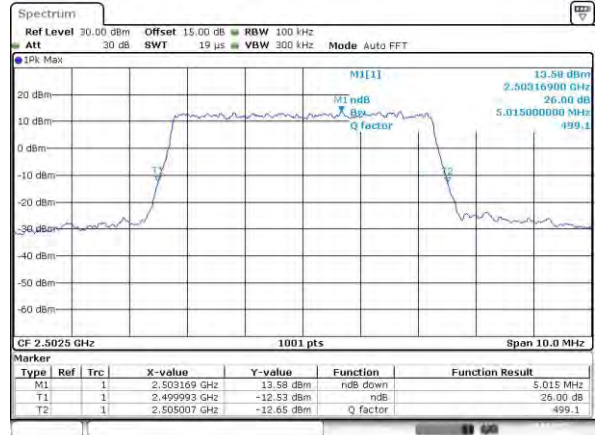


LTE Band 7

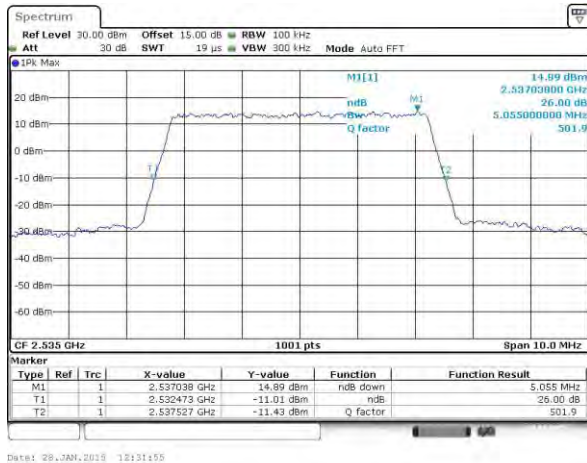
Lowest Channel / 5MHz / QPSK



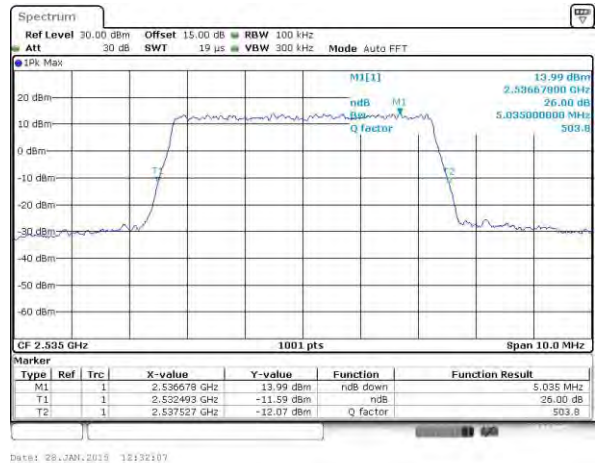
Lowest Channel / 5MHz / 16QAM



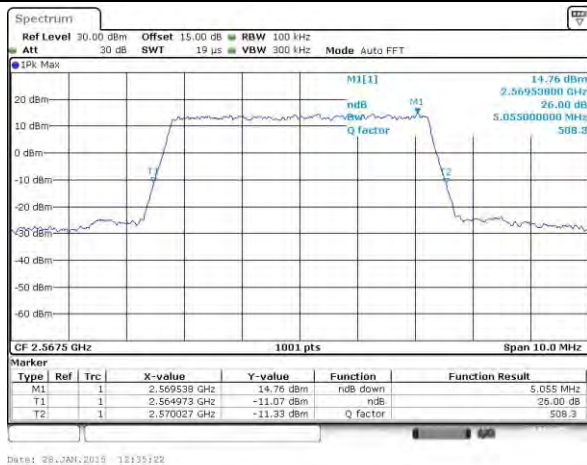
Middle Channel / 5MHz / QPSK



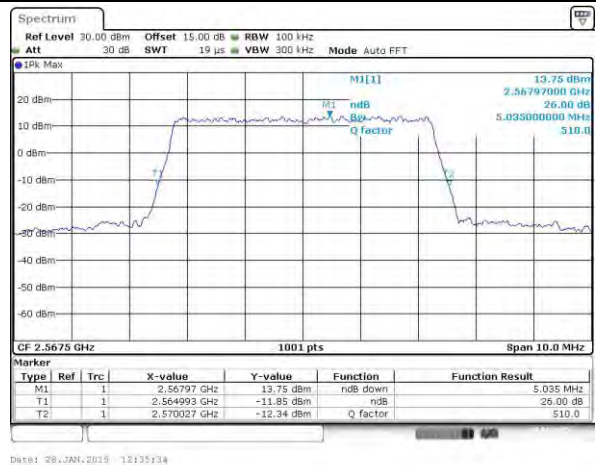
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



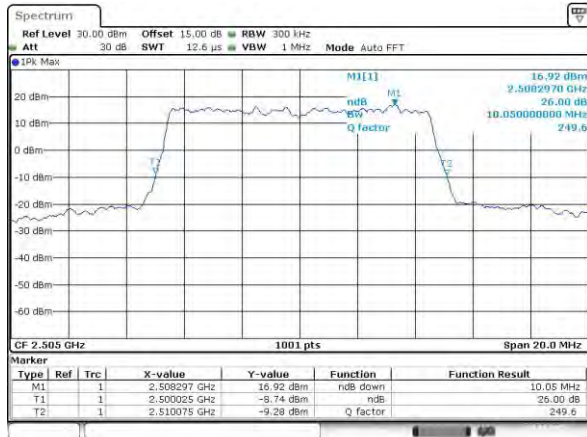
Highest Channel / 5MHz / 16QAM



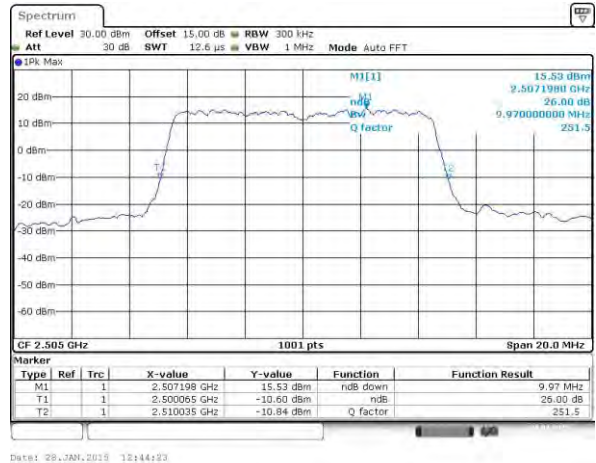


LTE Band 7

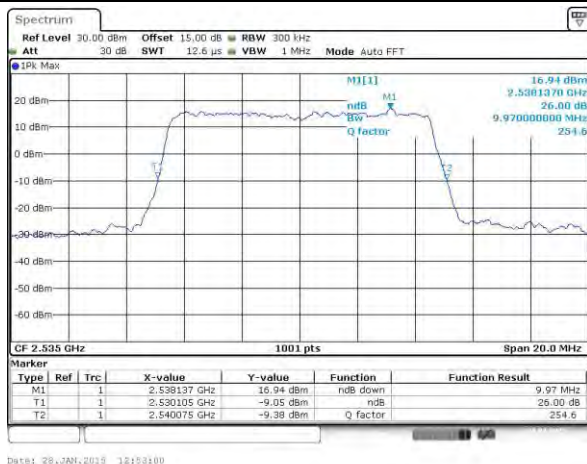
Lowest Channel / 10MHz / QPSK



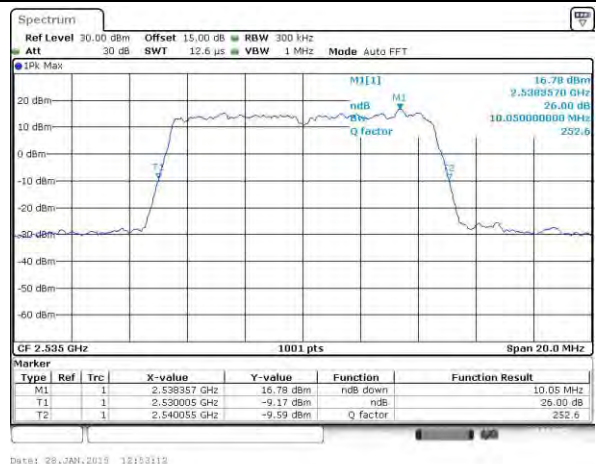
Lowest Channel / 10MHz / 16QAM



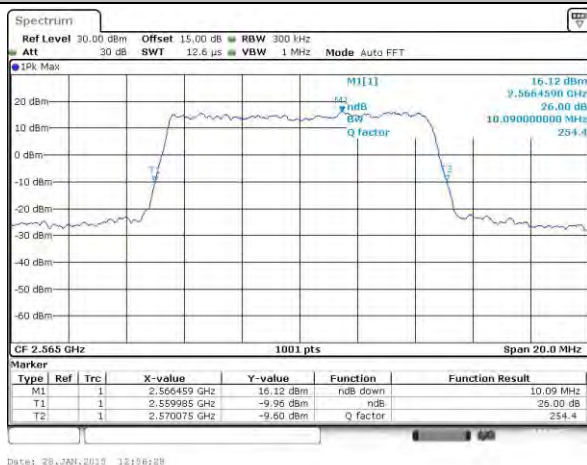
Middle Channel / 10MHz / QPSK



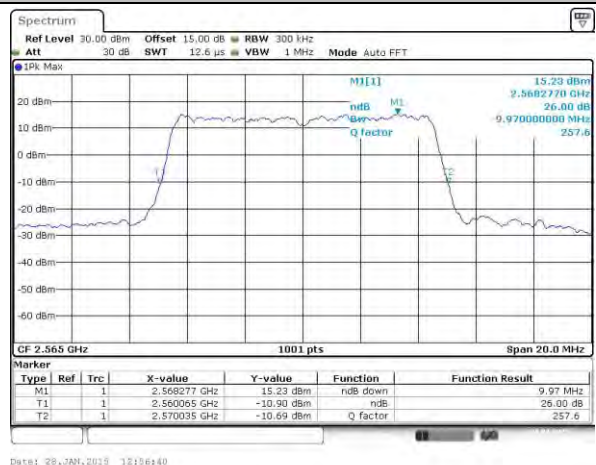
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



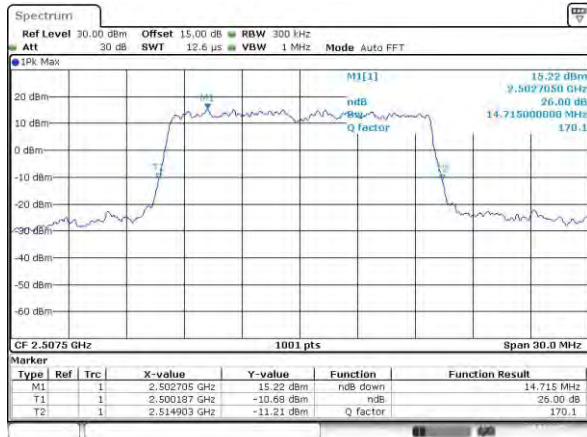
Highest Channel / 10MHz / 16QAM



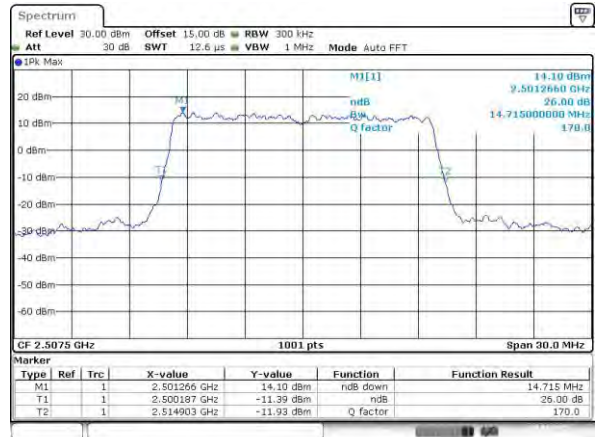


LTE Band 7

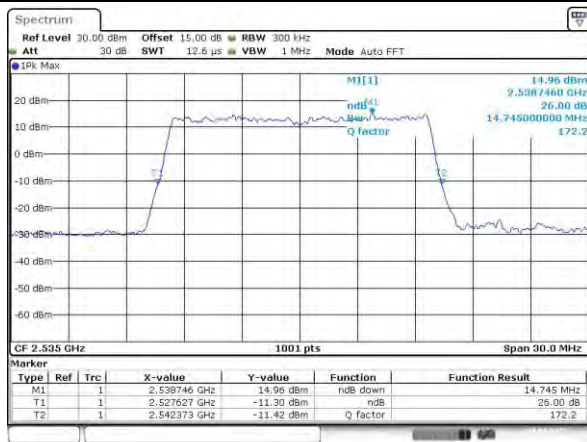
Lowest Channel / 15MHz / QPSK



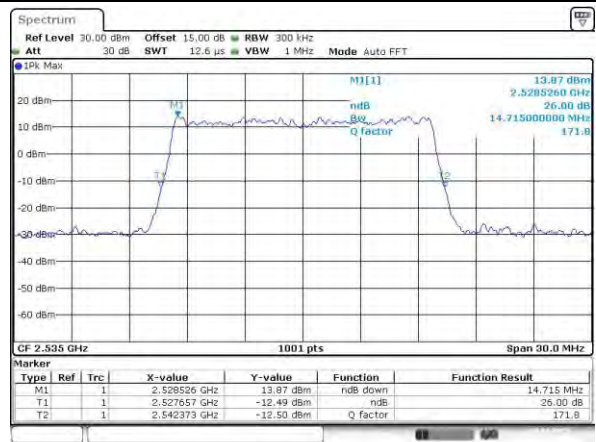
Lowest Channel / 15MHz / 16QAM



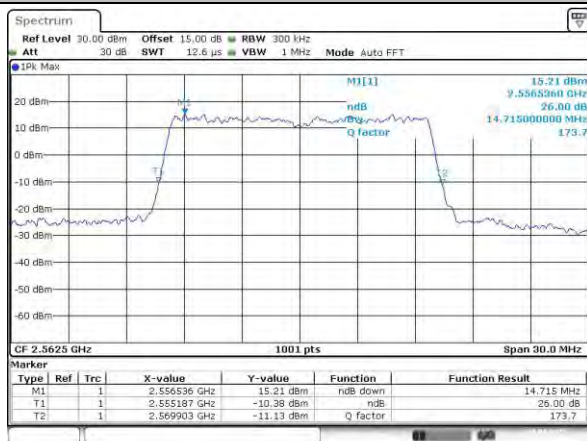
Middle Channel / 15MHz / QPSK



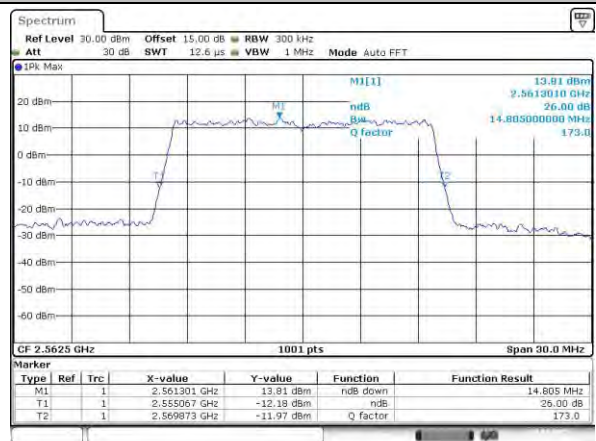
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



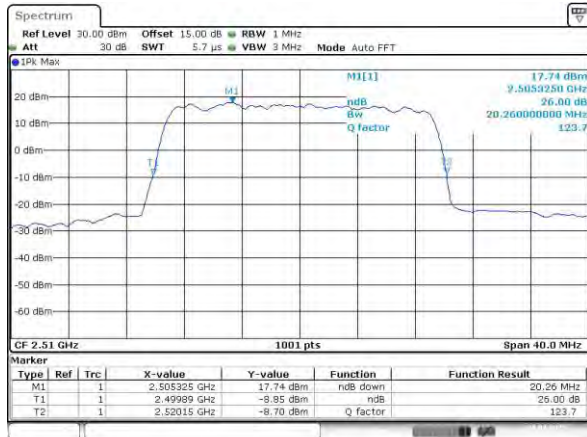
Highest Channel / 15MHz / 16QAM



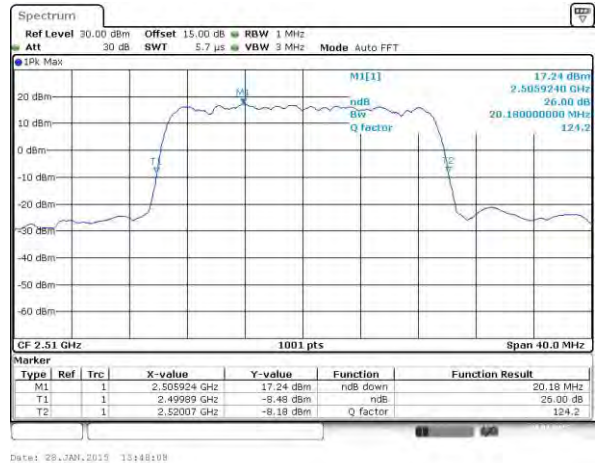


LTE Band 7

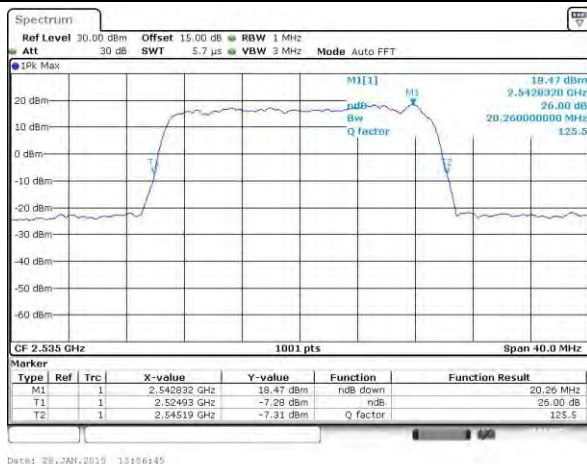
Lowest Channel / 20MHz / QPSK



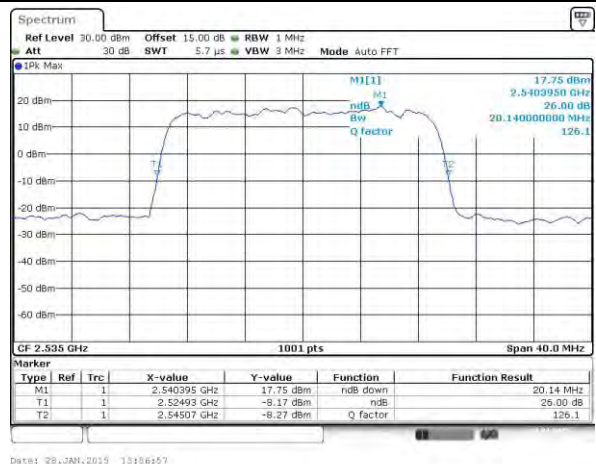
Lowest Channel / 20MHz / 16QAM



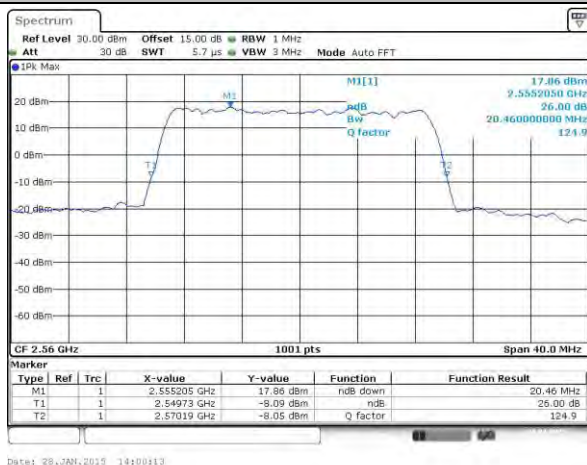
Middle Channel / 20MHz / QPSK



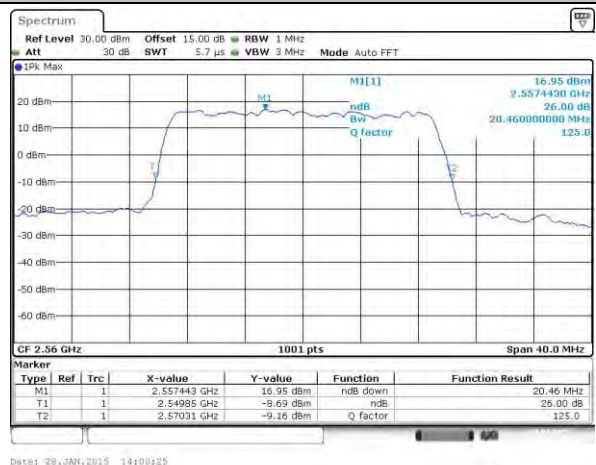
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



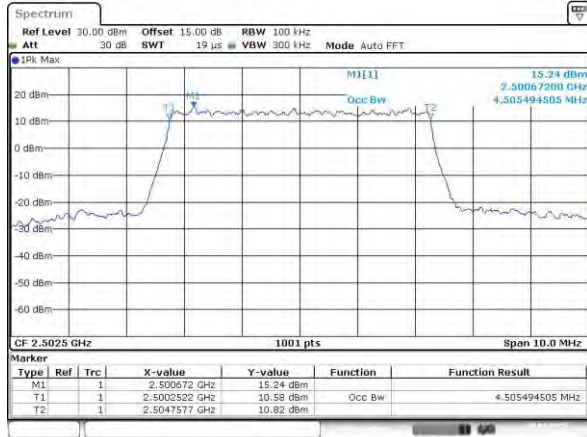
**Occupied Bandwidth**

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	-	-	-	-	4.51	4.50	9.05	9.03	13.49	13.49	18.30	18.42
Middle CH	-	-	-	-	4.50	4.50	9.11	9.05	13.49	13.49	18.42	18.50
Highest CH	-	-	-	-	4.50	4.50	9.11	9.03	13.52	13.46	18.50	18.58



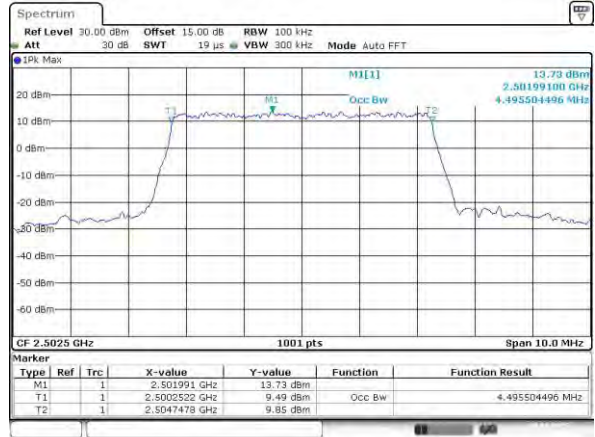
LTE Band 7

Lowest Channel / 5MHz / QPSK



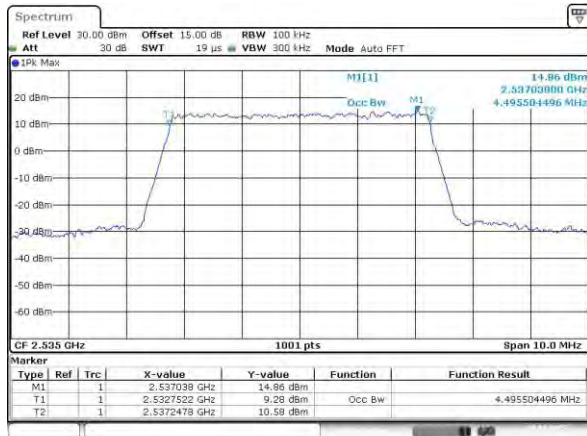
Date: 28.JAN.2018 12:22:56

Lowest Channel / 5MHz / 16QAM



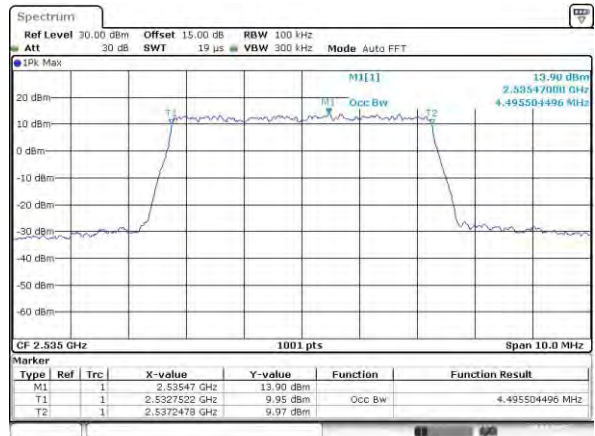
Date: 28.JAN.2018 12:22:56

Middle Channel / 5MHz / QPSK



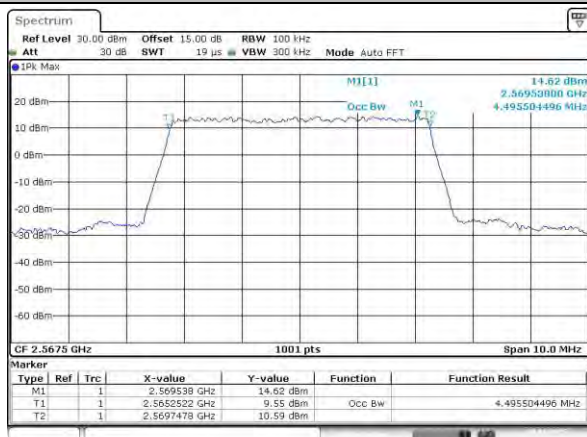
Date: 28.JAN.2018 12:31:43

Middle Channel / 5MHz / 16QAM



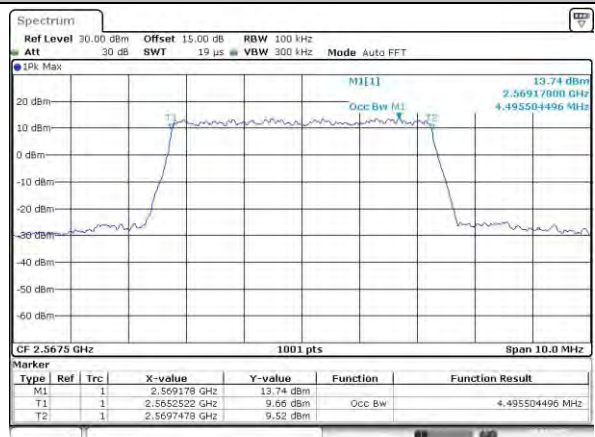
Date: 28.JAN.2018 12:31:43

Highest Channel / 5MHz / QPSK



Date: 28.JAN.2018 12:35:00

Highest Channel / 5MHz / 16QAM

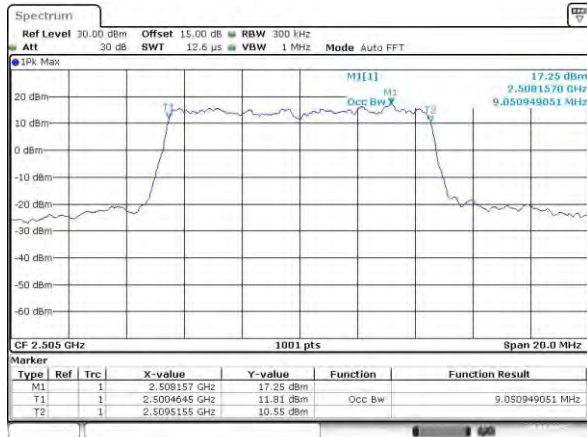


Date: 28.JAN.2018 12:35:10

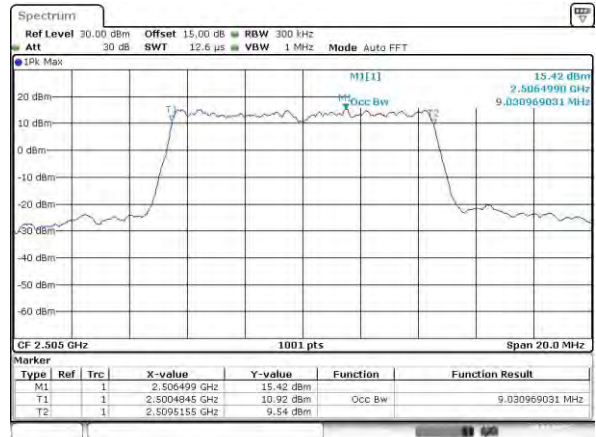


LTE Band 7

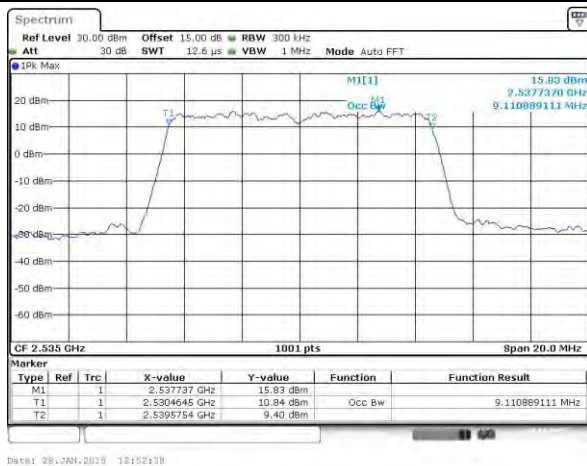
Lowest Channel / 10MHz / QPSK



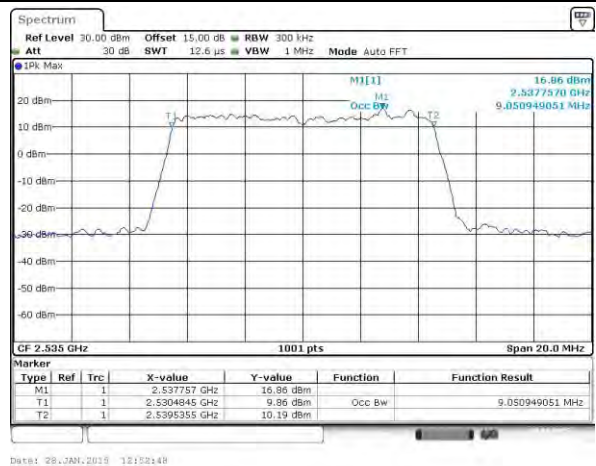
Lowest Channel / 10MHz / 16QAM



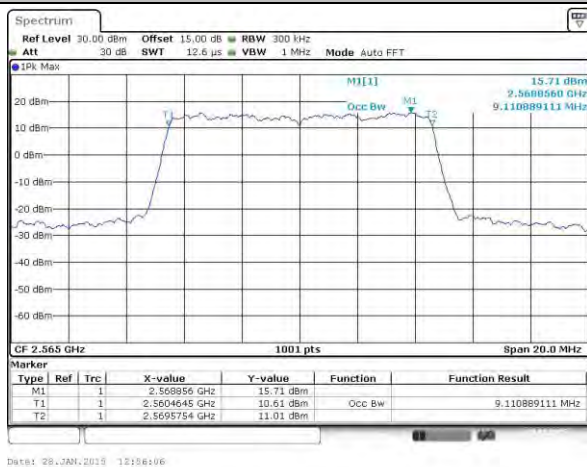
Middle Channel / 10MHz / QPSK



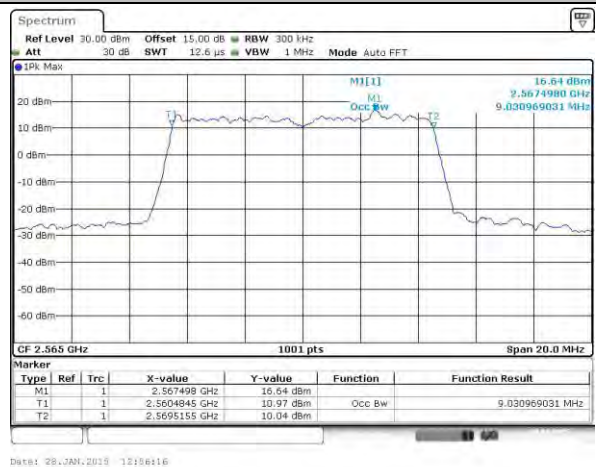
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



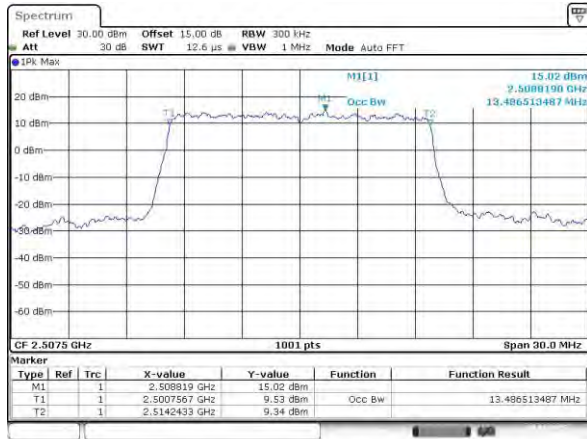
Highest Channel / 10MHz / 16QAM



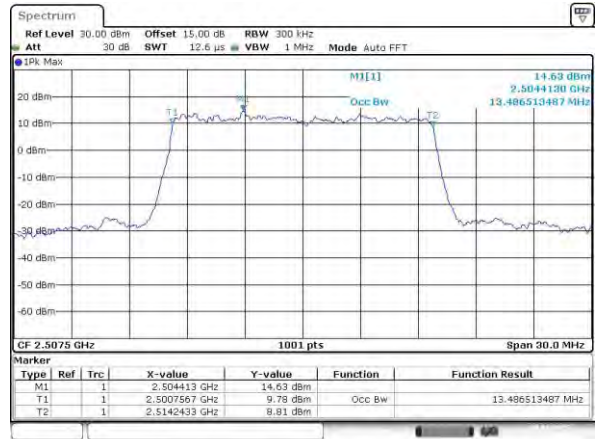


LTE Band 7

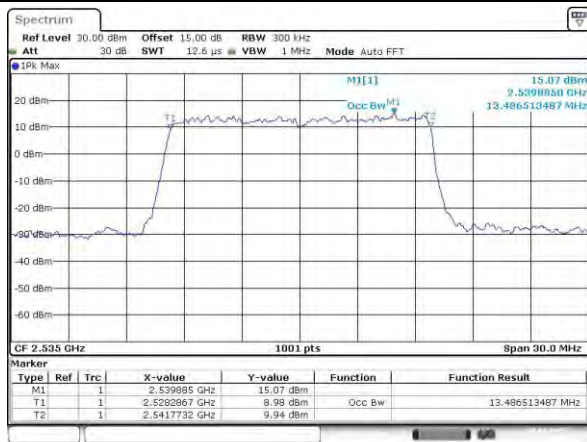
Lowest Channel / 15MHz / QPSK



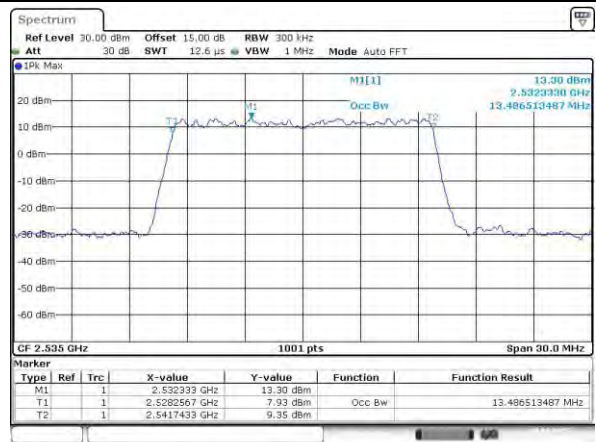
Lowest Channel / 15MHz / 16QAM



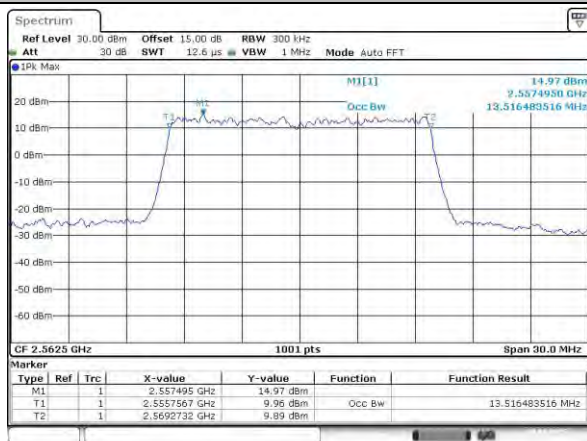
Middle Channel / 15MHz / QPSK



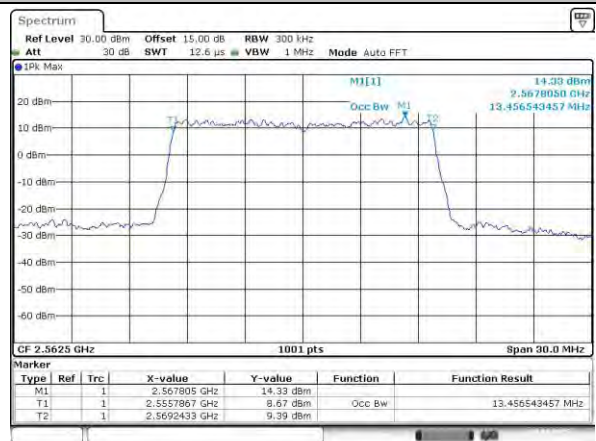
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



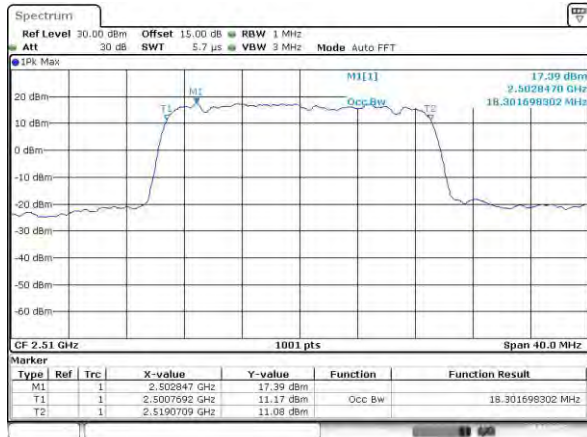
Highest Channel / 15MHz / 16QAM



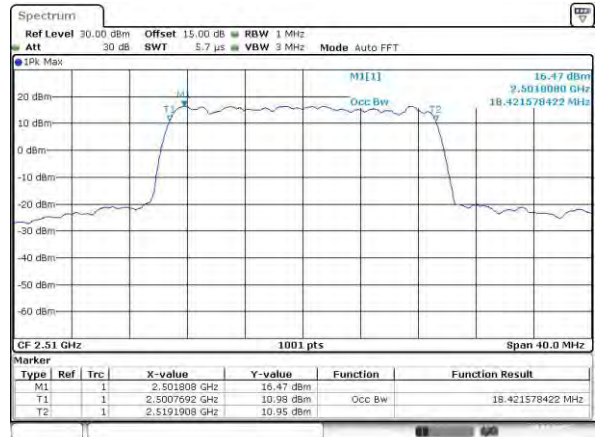


LTE Band 7

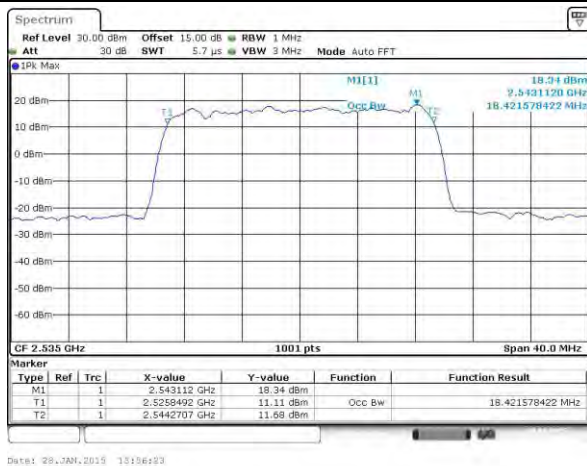
Lowest Channel / 20MHz / QPSK



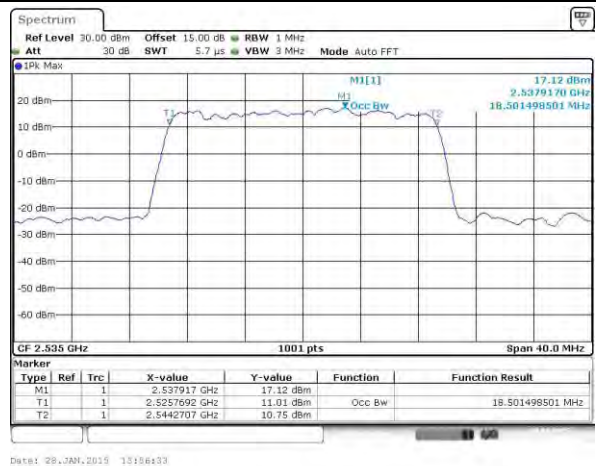
Lowest Channel / 20MHz / 16QAM



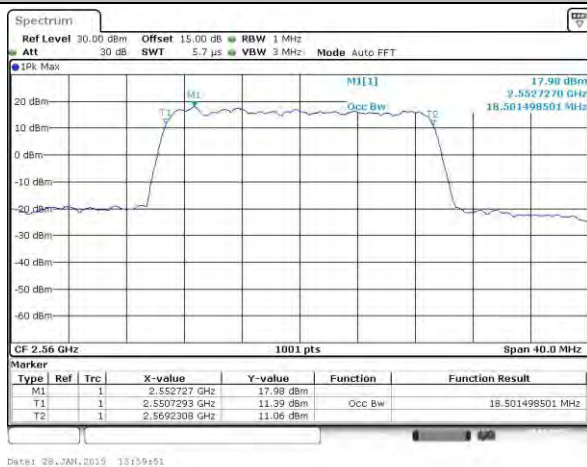
Middle Channel / 20MHz / QPSK



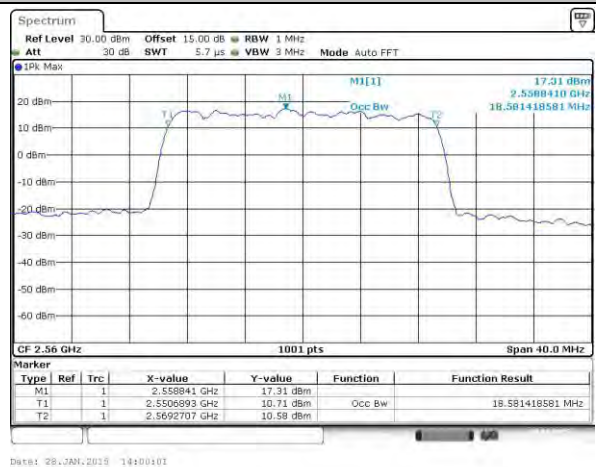
Middle Channel / 20MHz / 16QAM

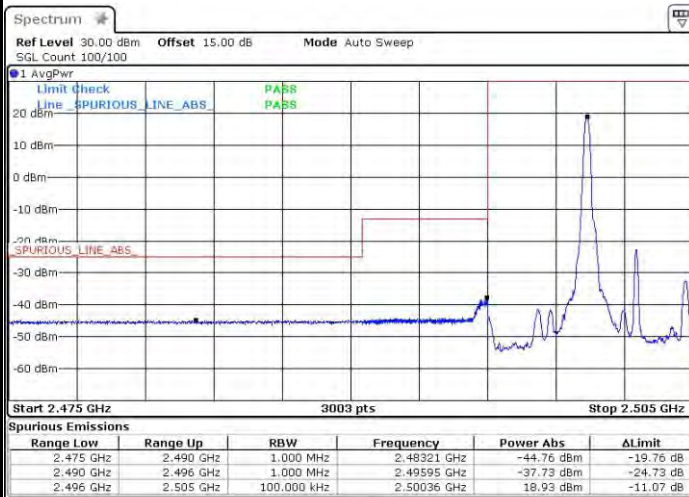


Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

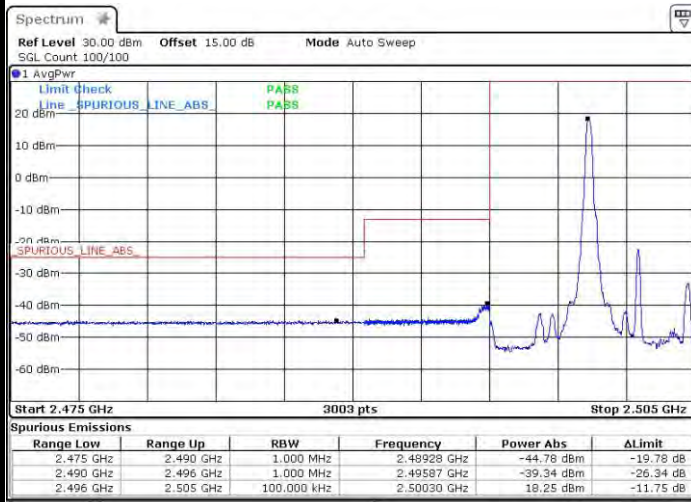


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



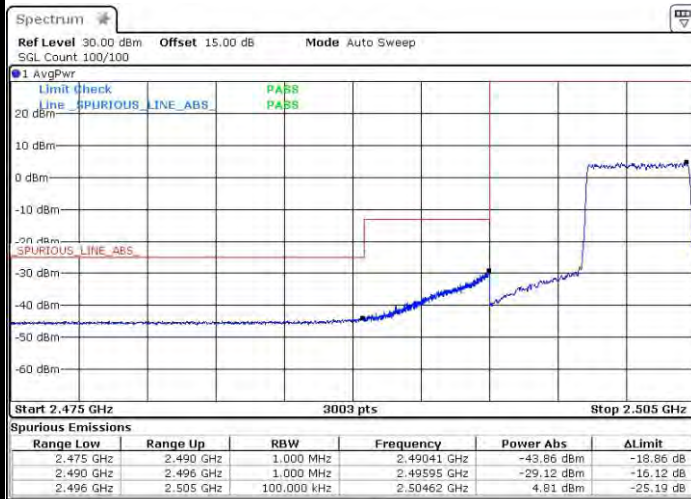
Date: 17.MAR.2015 16:38:39

Highest Band Edge / 1 RB



Date: 17.MAR.2015 16:36:37

Lowest Band Edge / Full RB



Date: 17.MAR.2015 16:39:04

Highest Band Edge / Full RB

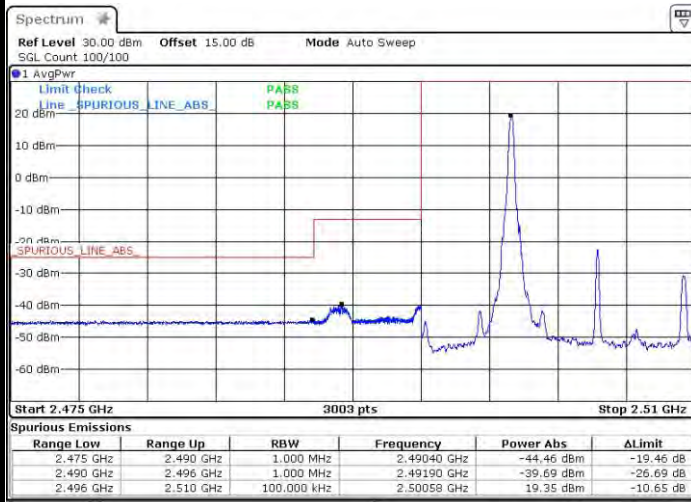


Date: 17.MAR.2015 16:34:34



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



Date: 17.MAR.2015 16:41:15

Highest Band Edge / 1 RB



Date: 17.MAR.2015 16:42:20

Lowest Band Edge / Full RB



Date: 17.MAR.2015 16:40:03

Highest Band Edge / Full RB

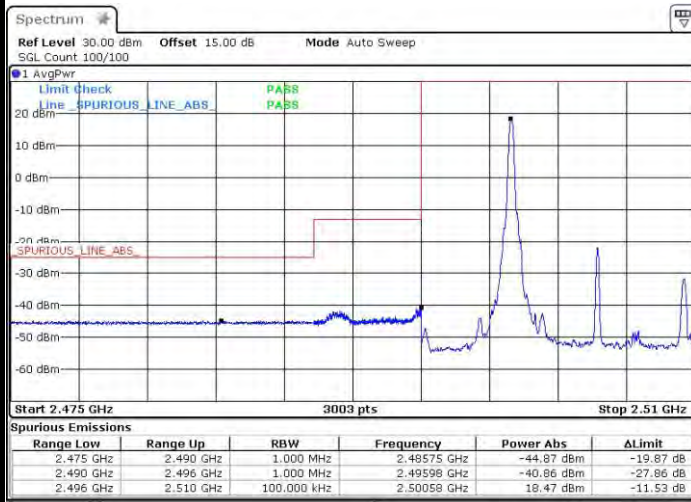


Date: 17.MAR.2015 16:44:27

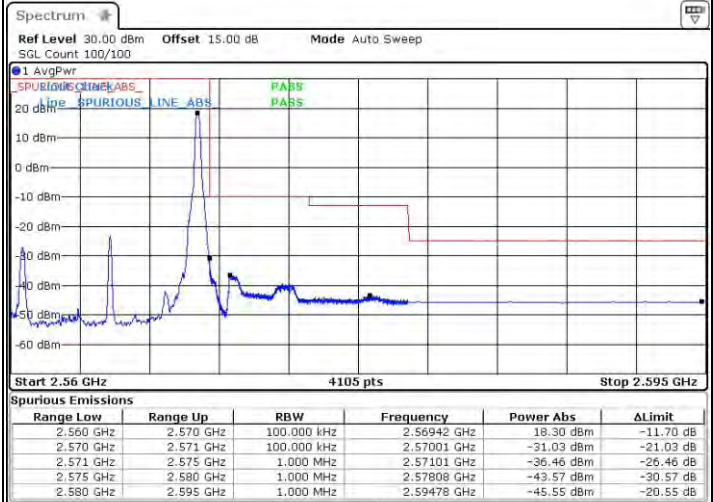


LTE Band 7 / 10MHz / 16QAM

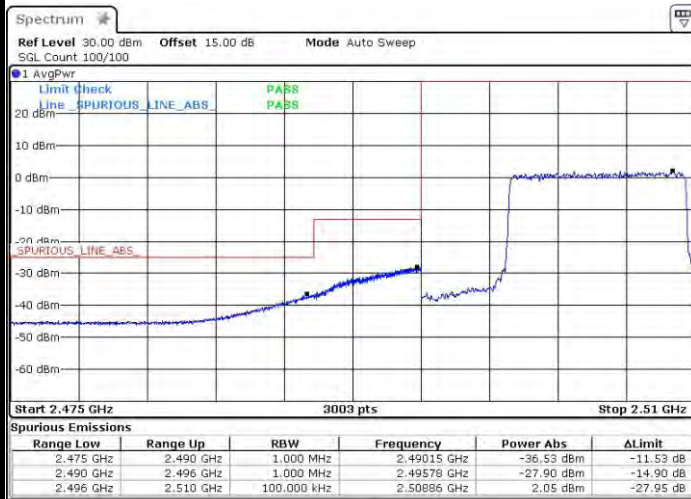
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



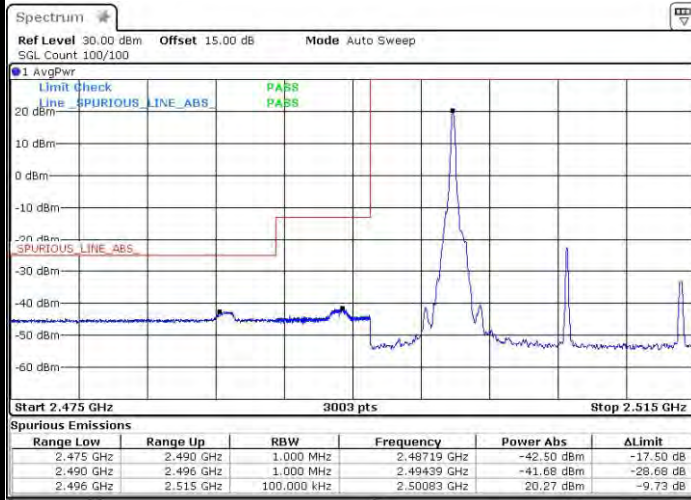
Highest Band Edge / Full RB





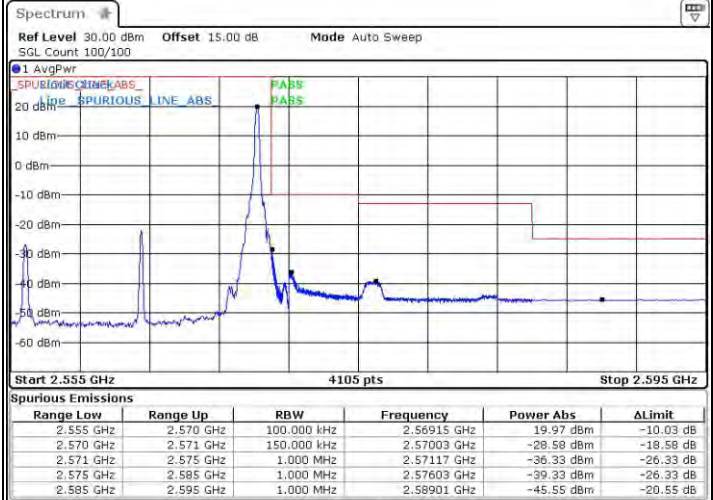
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



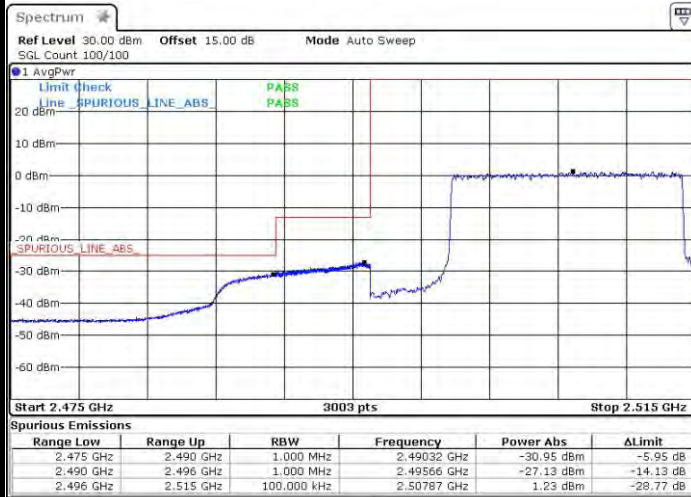
Date: 17.MAR.2015 16:47:01

Highest Band Edge / 1 RB



Date: 17.MAR.2015 16:47:32

Lowest Band Edge / Full RB



Date: 17.MAR.2015 16:43:16

Highest Band Edge / Full RB

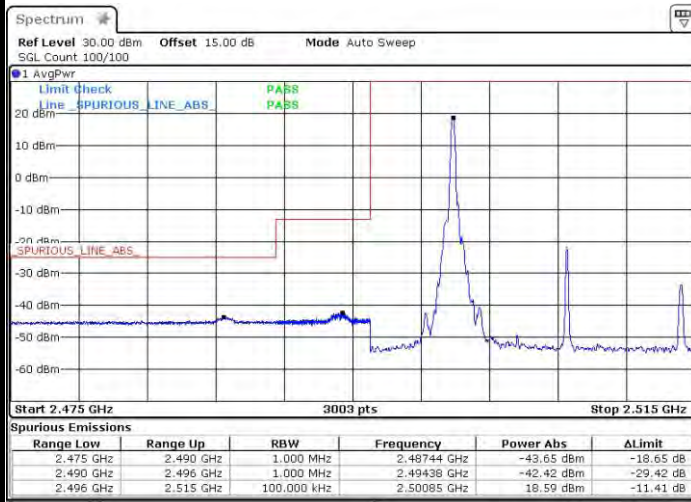


Date: 17.MAR.2015 16:53:38

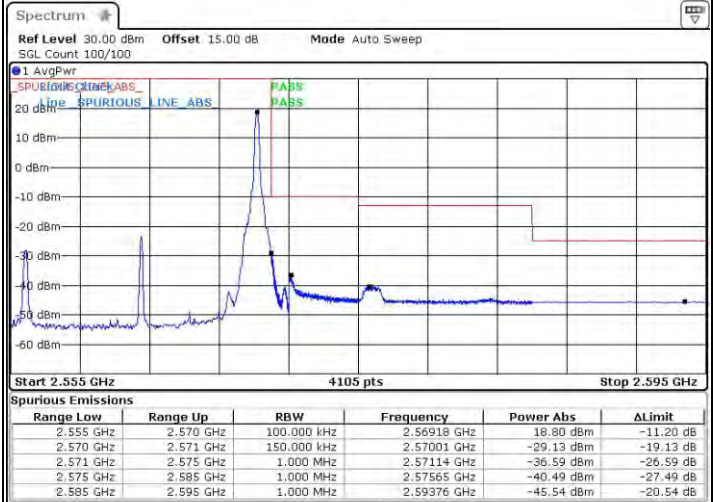


LTE Band 7 / 15MHz / 16QAM

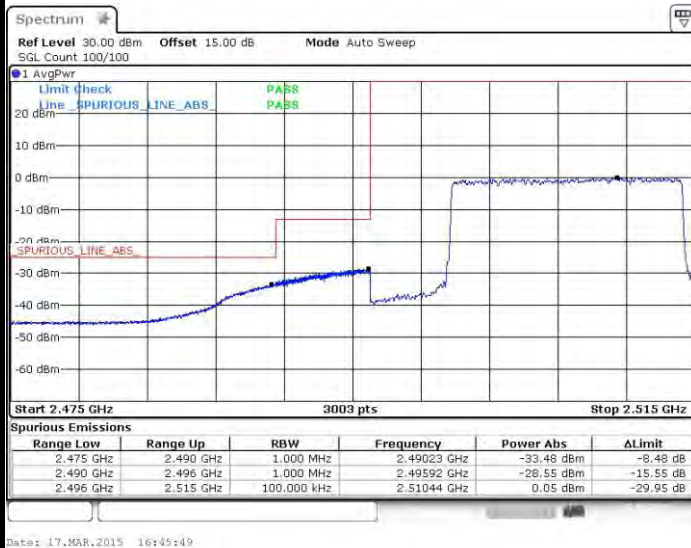
Lowest Band Edge / 1 RB



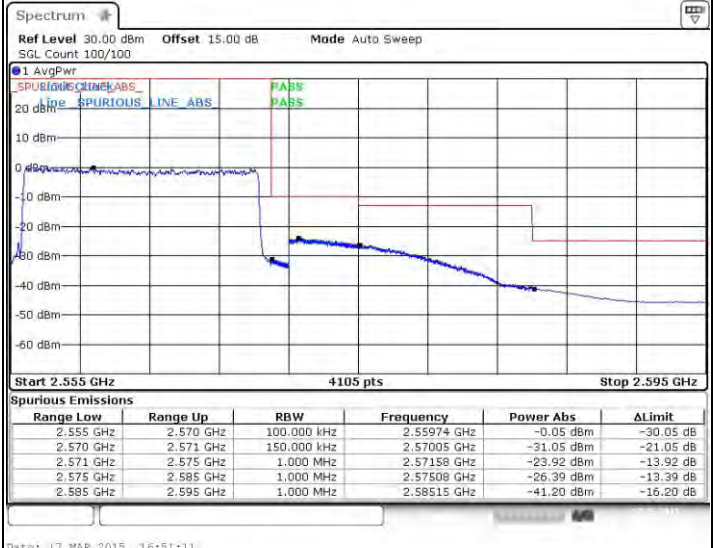
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



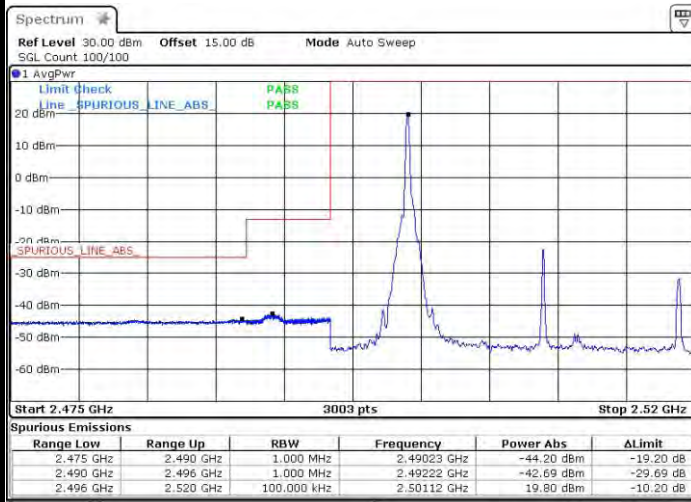
Highest Band Edge / Full RB



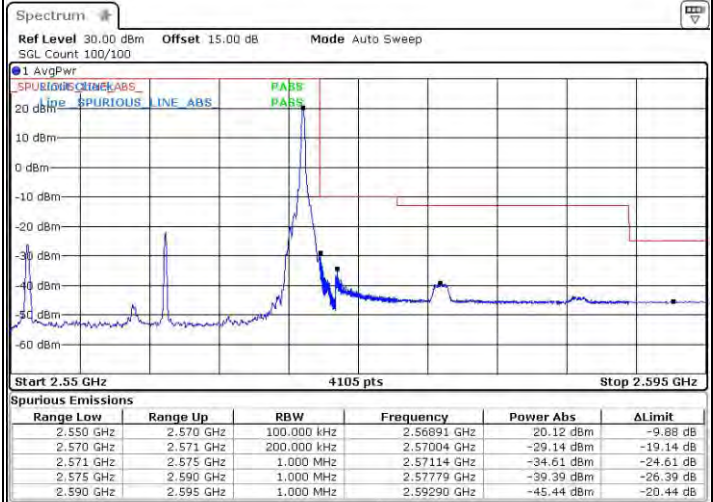


LTE Band 7 / 20MHz / QPSK

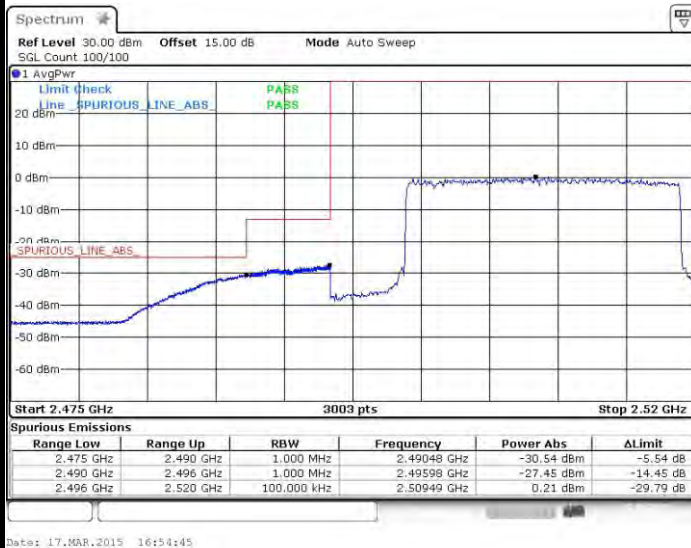
Lowest Band Edge / 1 RB



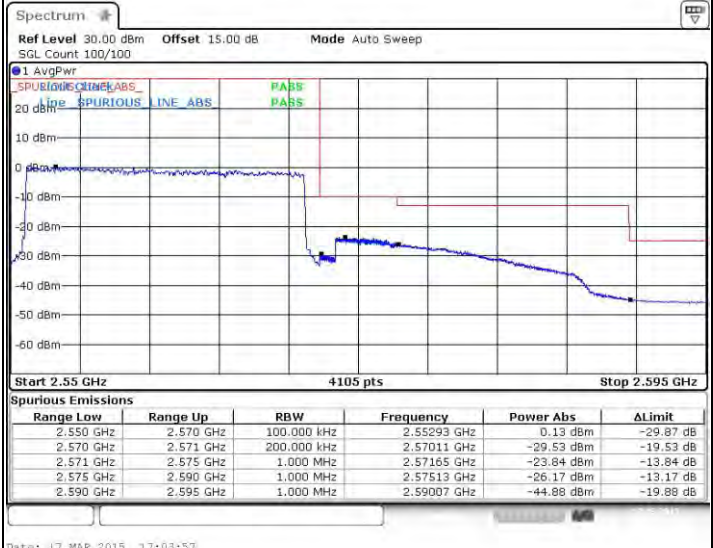
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



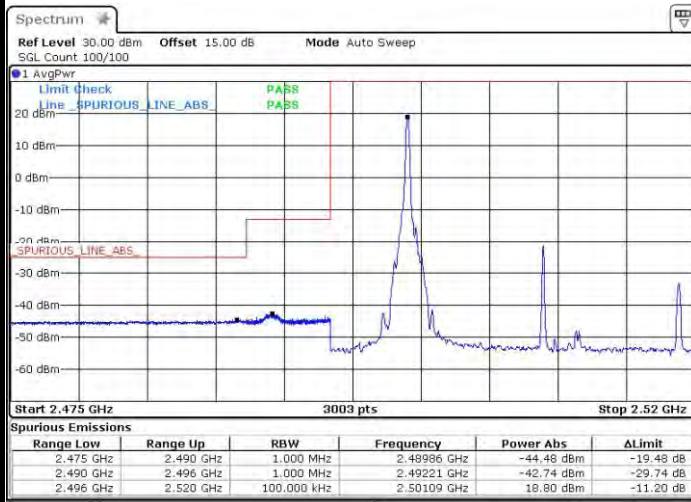
Highest Band Edge / Full RB



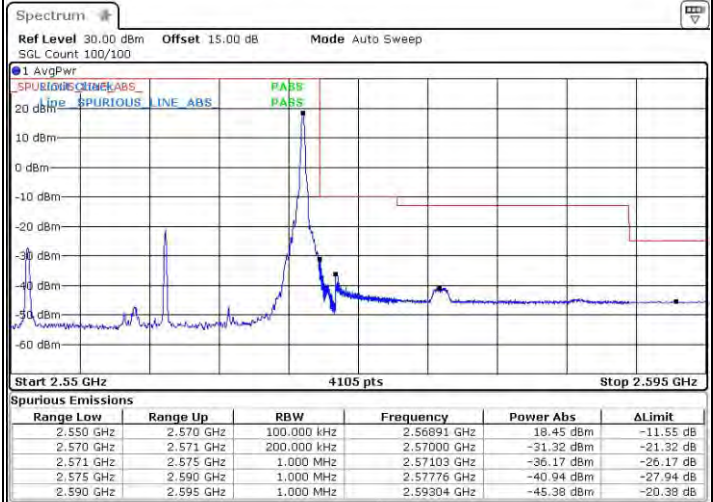


LTE Band 7 / 20MHz / 16QAM

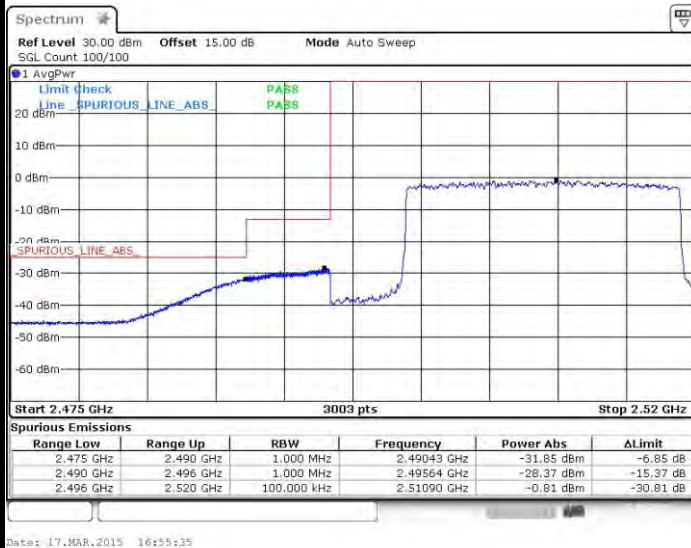
Lowest Band Edge / 1 RB



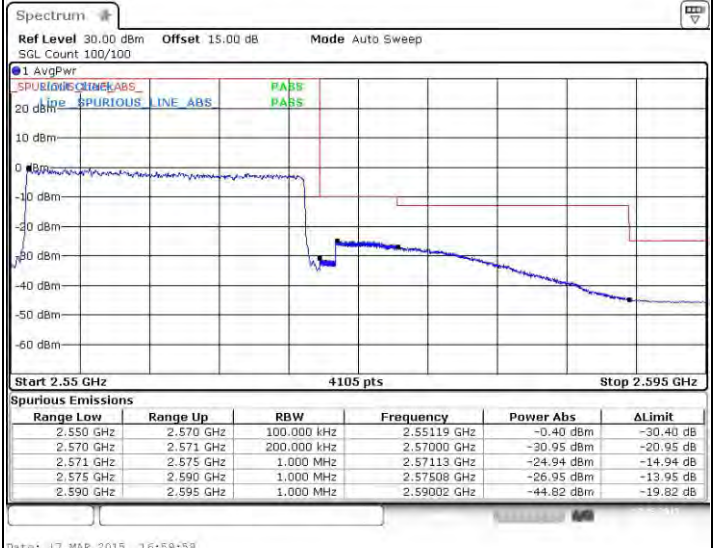
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

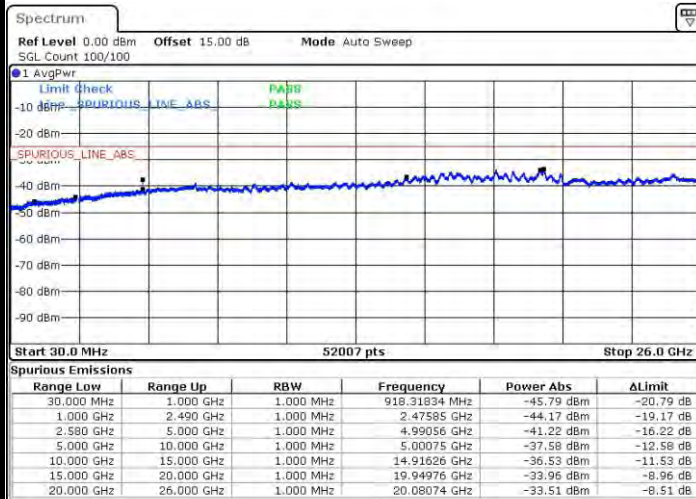




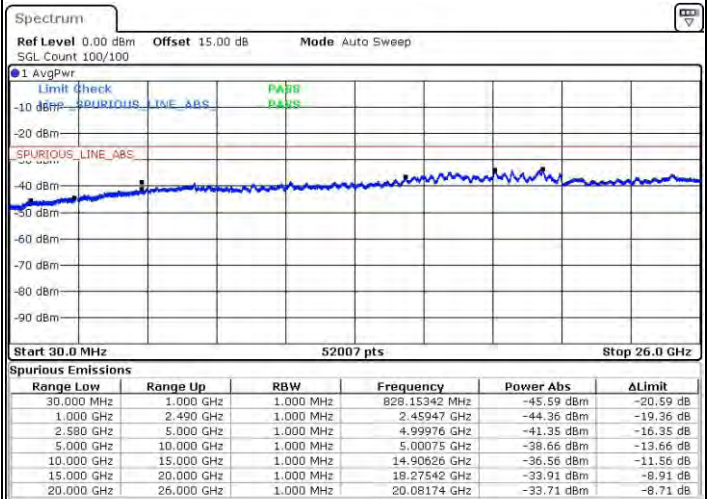
Conducted Spurious Emission

LTE Band 7 / 5MHz

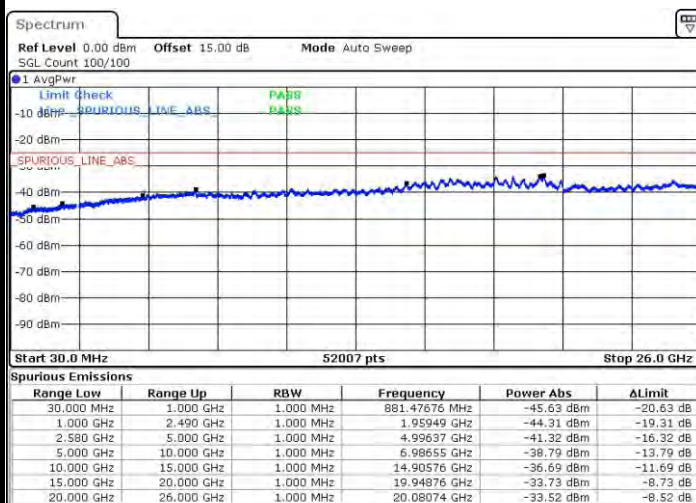
Lowest Channel / QPSK



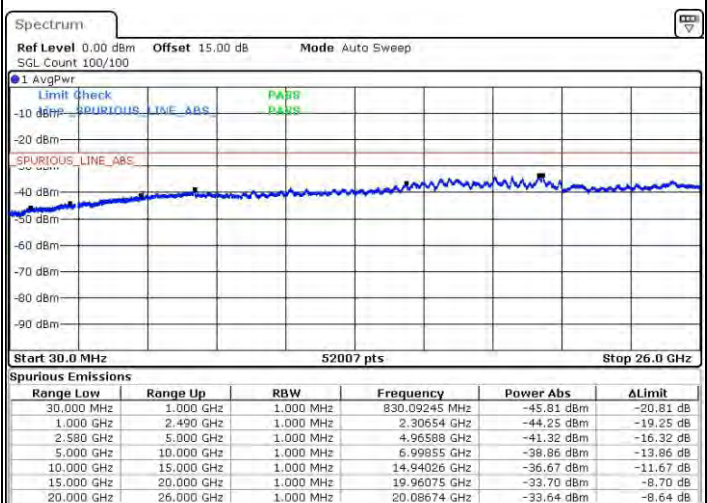
Lowest Channel / 16QAM



Middle Channel / QPSK



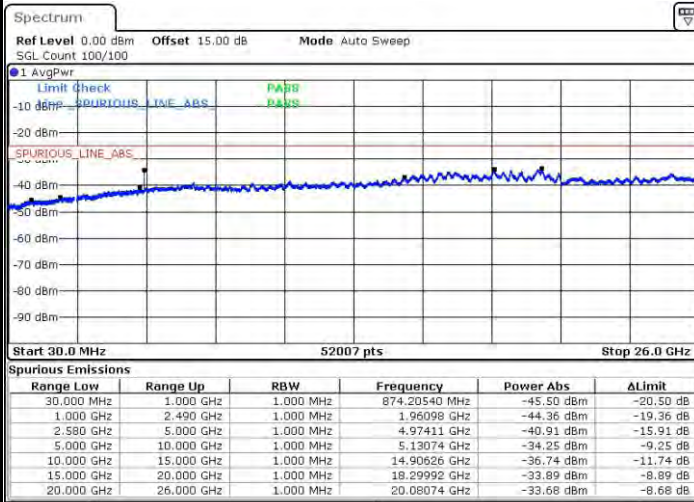
Middle Channel / 16QAM





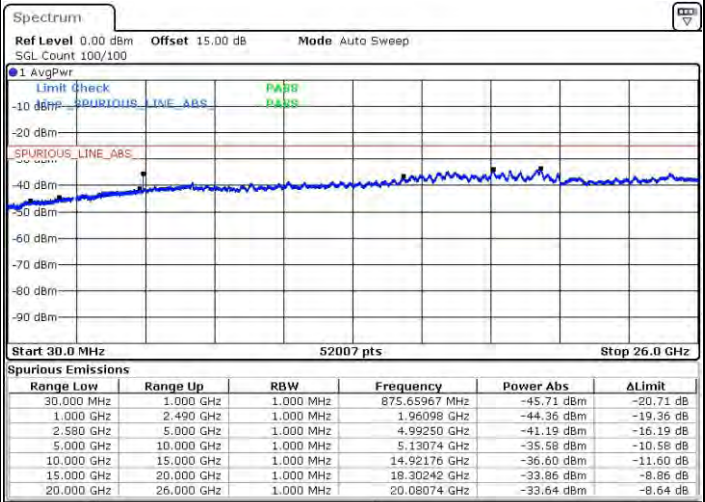
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 28.JAN.2015 12:42:05

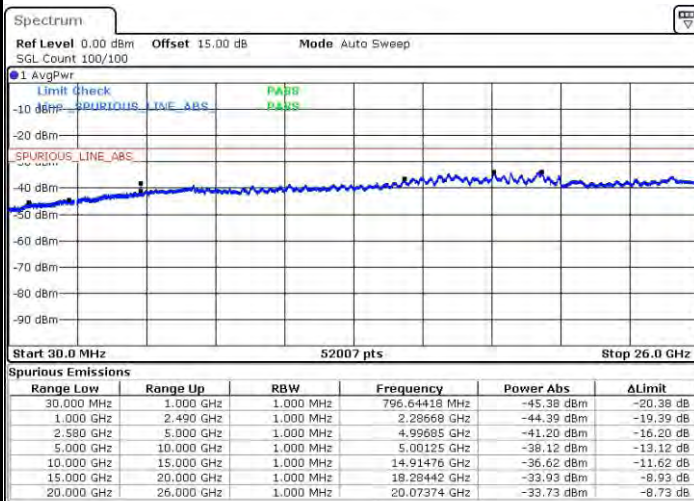
Highest Channel / 16QAM



Date: 28.JAN.2015 12:43:27

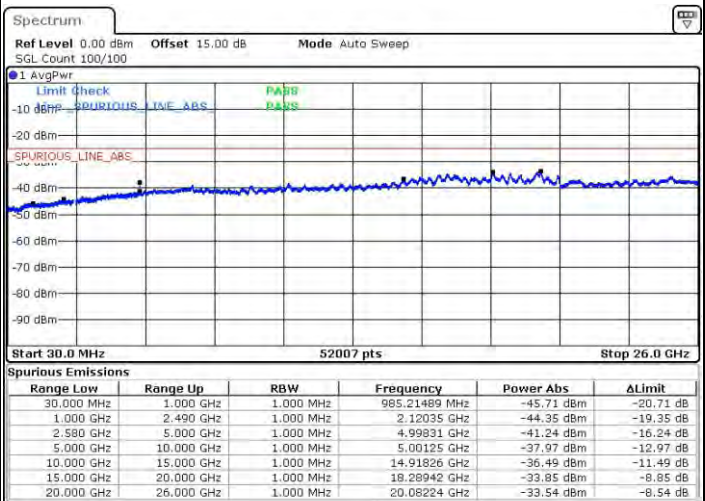
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 28.JAN.2015 12:50:55

Lowest Channel / 16QAM

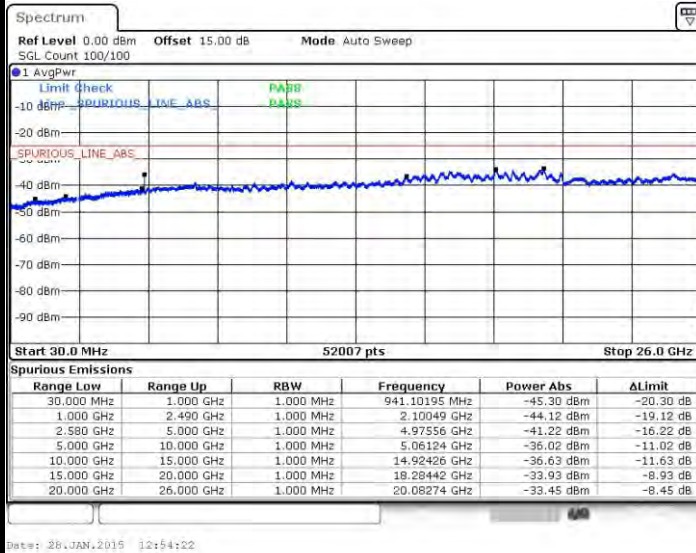


Date: 28.JAN.2015 12:52:16

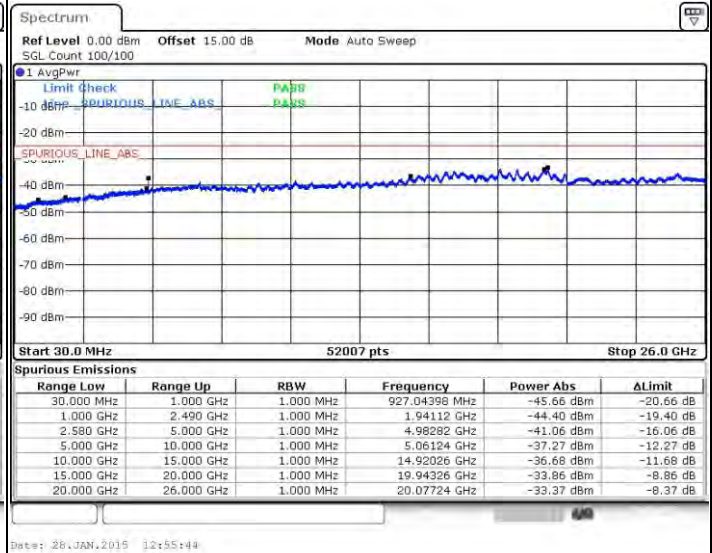


LTE Band 7 / 10MHz

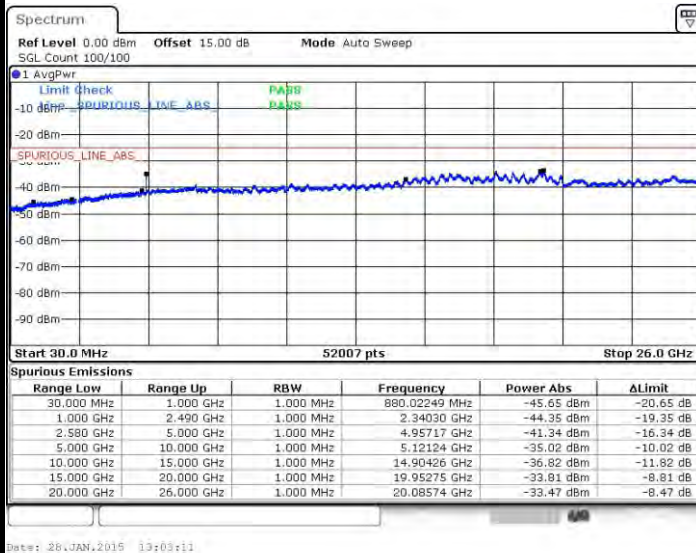
Middle Channel / QPSK



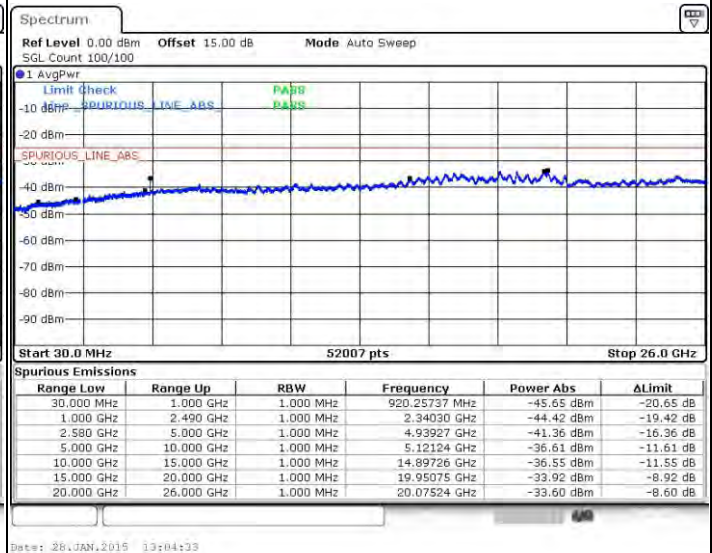
Middle Channel / 16QAM



Highest Channel / QPSK



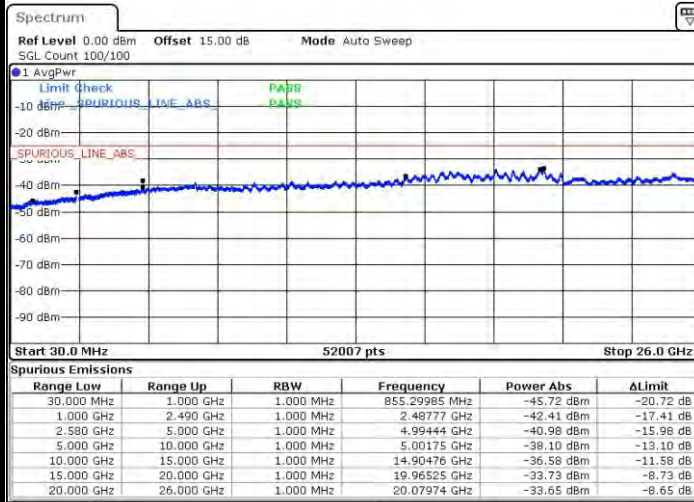
Highest Channel / 16QAM





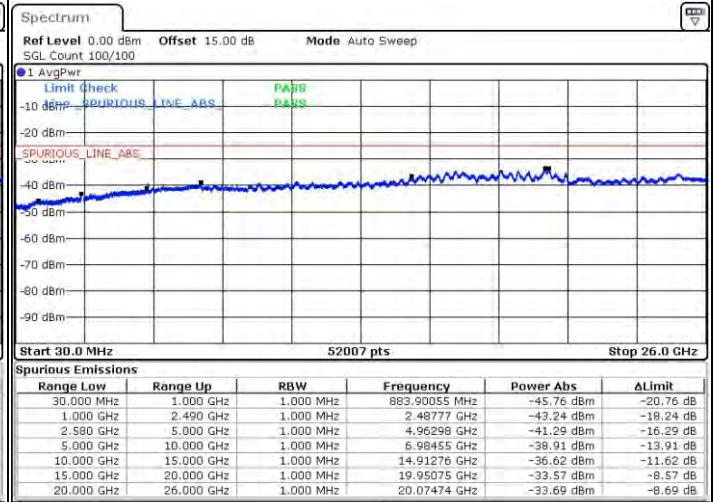
LTE Band 7 / 15MHz

Lowest Channel / QPSK



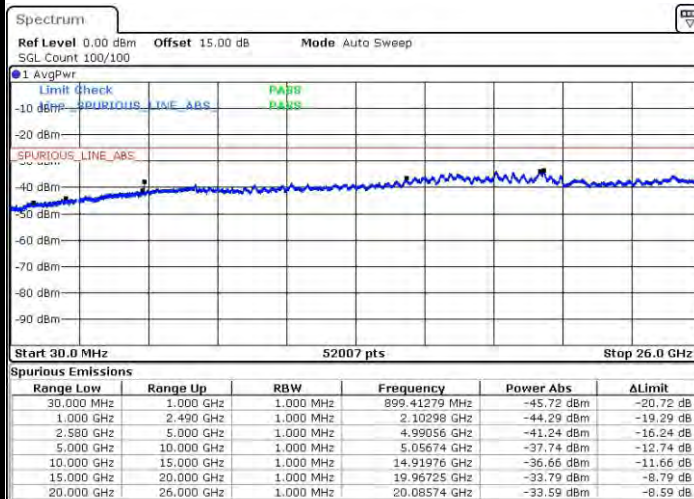
Date: 28.JAN.2015 13:12:01

Lowest Channel / 16QAM



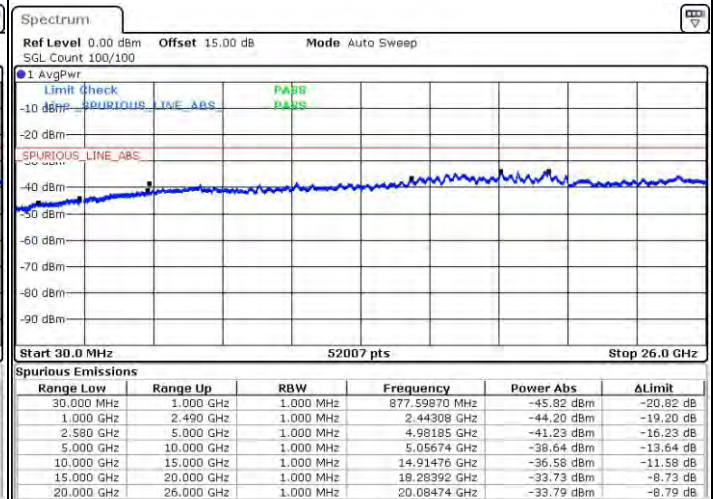
Date: 28.JAN.2015 13:13:22

Middle Channel / QPSK



Date: 28.JAN.2015 13:15:28

Middle Channel / 16QAM

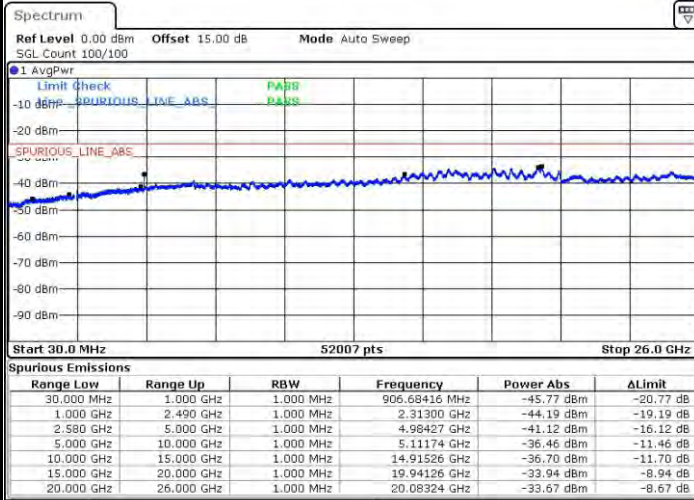


Date: 28.JAN.2015 13:16:30



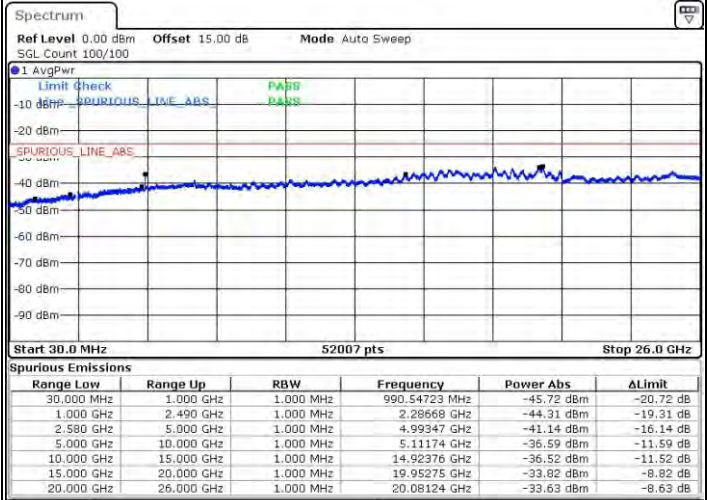
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 28.JAN.2015 13:24:16

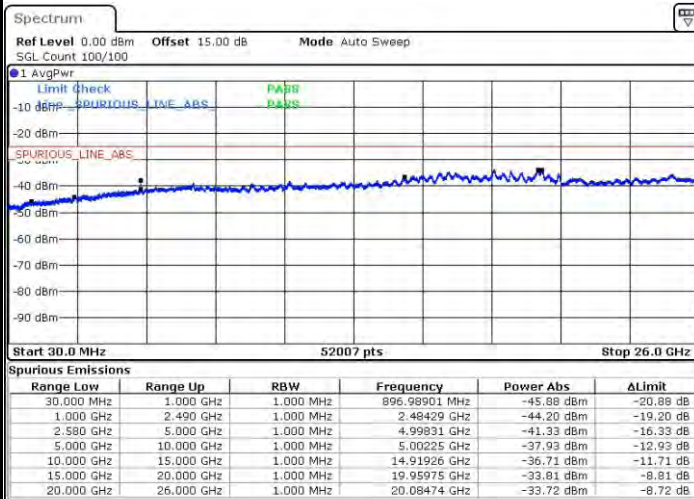
Highest Channel / 16QAM



Date: 28.JAN.2015 13:25:38

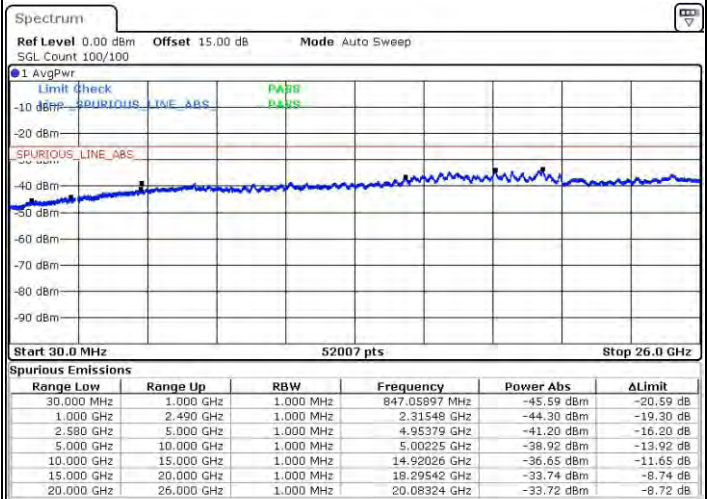
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 28.JAN.2015 13:54:41

Lowest Channel / 16QAM

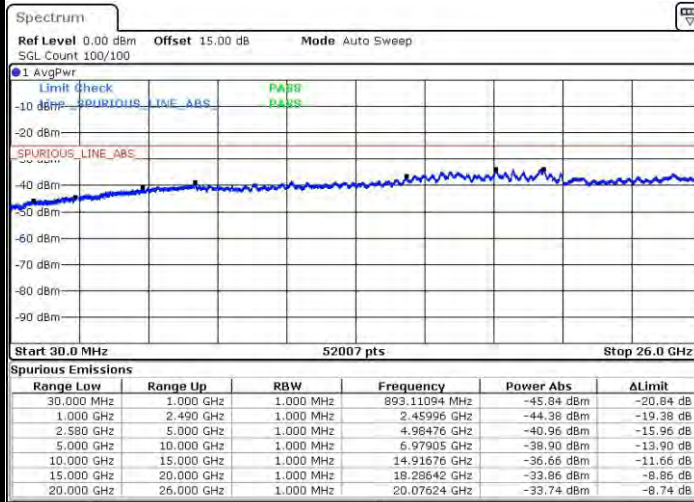


Date: 28.JAN.2015 13:56:02



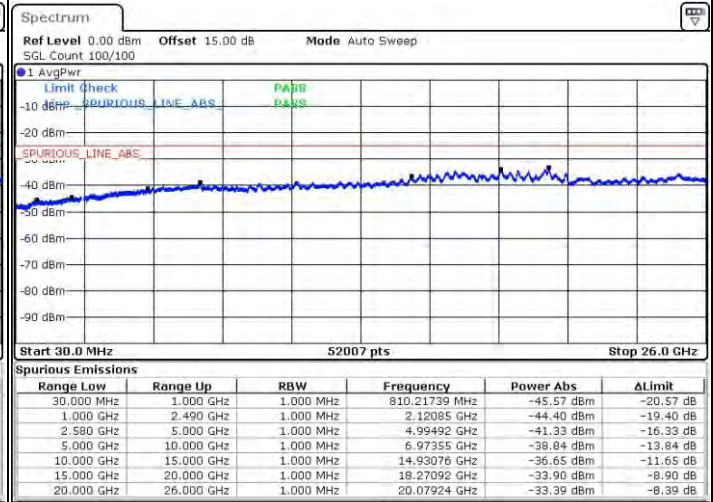
LTE Band 7 / 20MHz

Middle Channel / QPSK



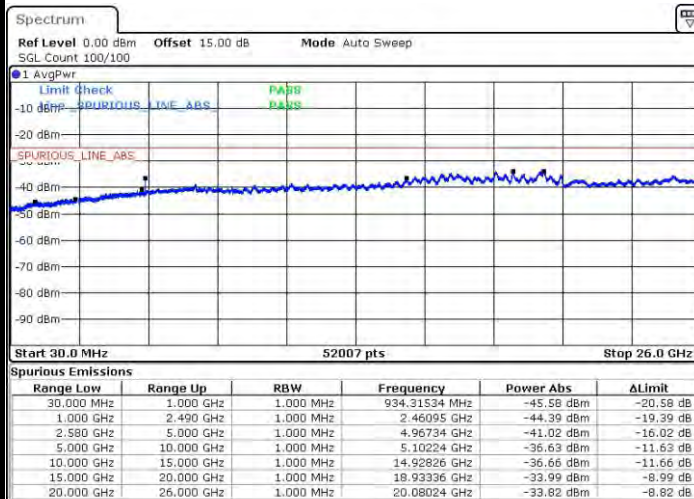
Date: 28.JAN.2015 13:58:07

Middle Channel / 16QAM



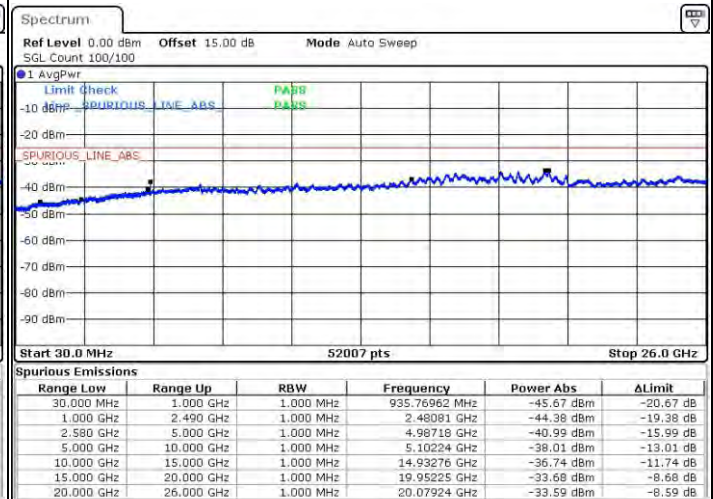
Date: 28.JAN.2015 13:59:29

Highest Channel / QPSK



Date: 28.JAN.2015 14:06:56

Highest Channel / 16QAM



Date: 28.JAN.2015 14:08:17

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	0.0012	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage = 3.80V. ; Battery End Point (BEP) = 3.50 V. ; Maximum Voltage =4.35V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

LTE Band 17

Conducted Output Power(Average power)

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.25	22.52	22.53
5	1	12		22.50	22.63	22.98
5	1	24		22.38	22.60	22.37
5	12	0		21.63	21.81	21.69
5	12	6		21.60	21.84	21.66
5	12	11		21.58	21.87	21.79
5	25	0		21.59	21.88	21.70
5	1	0	16-QAM	21.43	22.37	22.40
5	1	12		21.15	22.47	22.46
5	1	24		21.90	21.98	22.13
5	12	0		20.27	20.76	20.65
5	12	6		20.38	20.79	20.63
5	12	11		20.35	20.82	20.67
5	25	0		20.48	20.89	20.71
10	1	0	QPSK	22.57	22.69	22.66
10	1	24		22.65	22.90	23.01
10	1	49		22.60	22.70	22.69
10	25	0		21.93	21.92	21.95
10	25	12		21.81	21.80	21.86
10	25	24		21.92	21.87	21.85
10	50	0		22.42	22.42	22.46
10	1	0	16-QAM	21.63	22.40	22.41
10	1	24		21.86	22.42	22.46
10	1	49		21.77	22.41	22.04
10	25	0		20.89	20.83	20.78
10	25	12		20.82	20.85	20.83
10	25	24		20.89	20.75	20.65
10	50	0		21.45	21.42	21.43



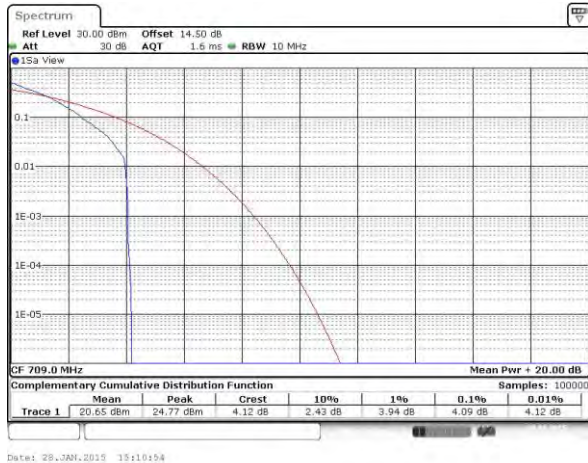
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.09	4.72	4.49	5.71	PASS
Middle CH	4.09	4.7	4.84	5.62	
Highest CH	4.03	4.72	5.19	5.65	

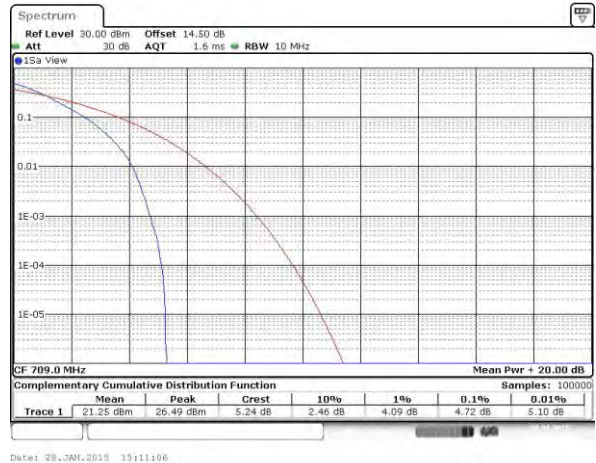


LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



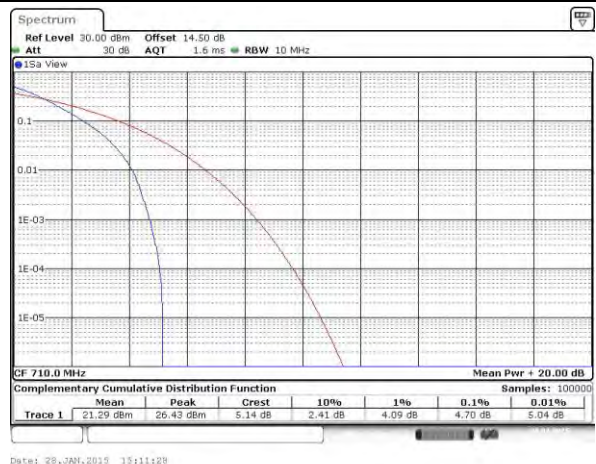
Lowest Channel / Full RB



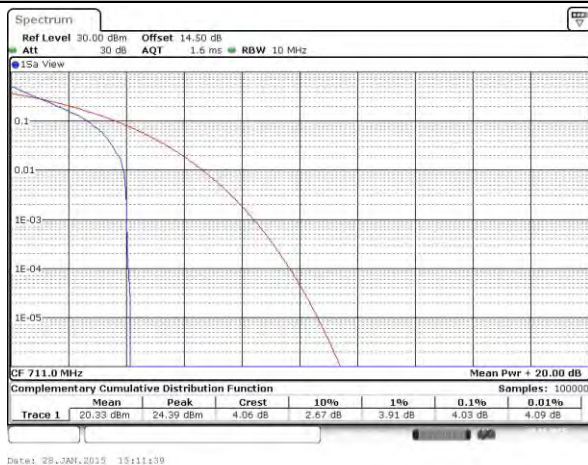
Middle Channel/ 1RB



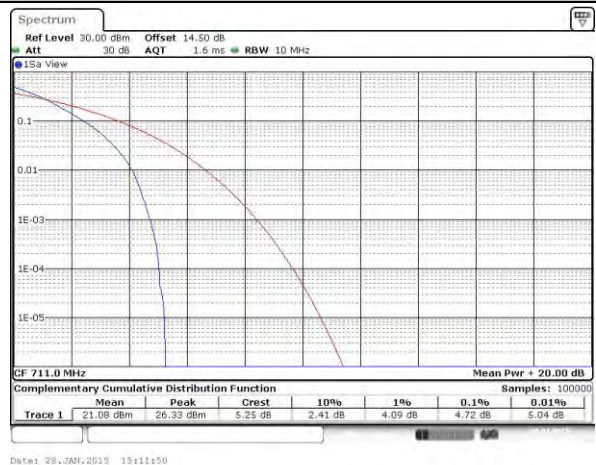
Middle Channel / Full RB



Highest Channel/ 1RB



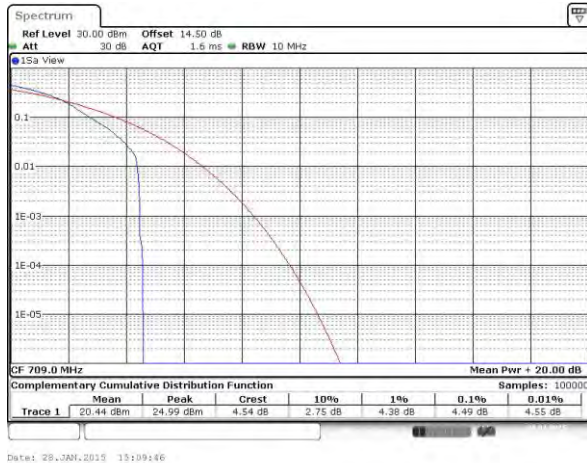
Highest Channel / Full RB



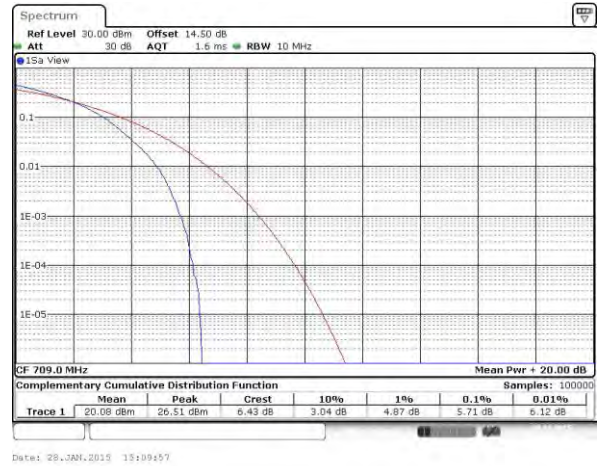


LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



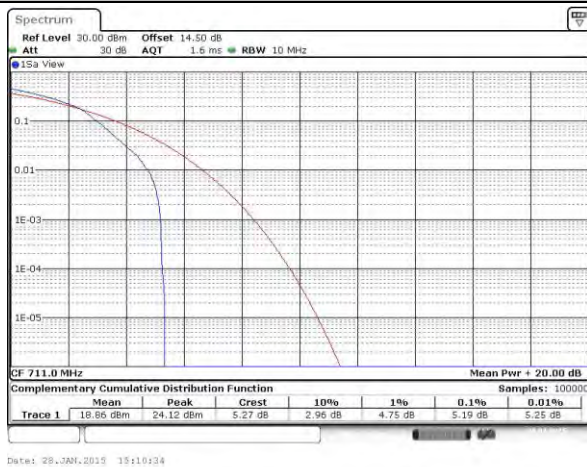
Middle Channel/ 1RB



Middle Channel / Full RB



Highest Channel/ 1RB



Highest Channel / Full RB





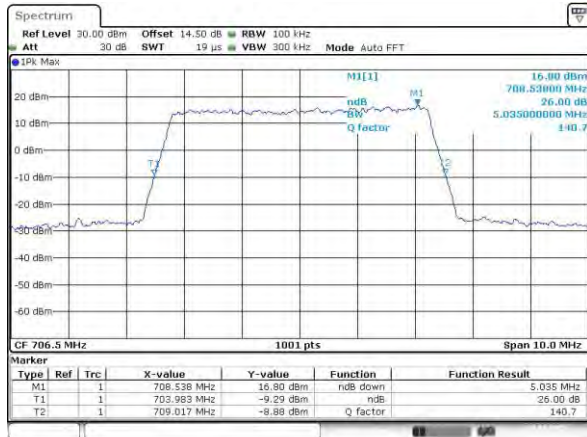
26dB Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	5.04	5.04	9.99	9.91	-	-	-	-
Middle CH	-	-	-	-	5.06	5.04	9.95	9.93	-	-	-	-
Highest CH	-	-	-	-	5.05	5.03	10.01	10.01	-	-	-	-

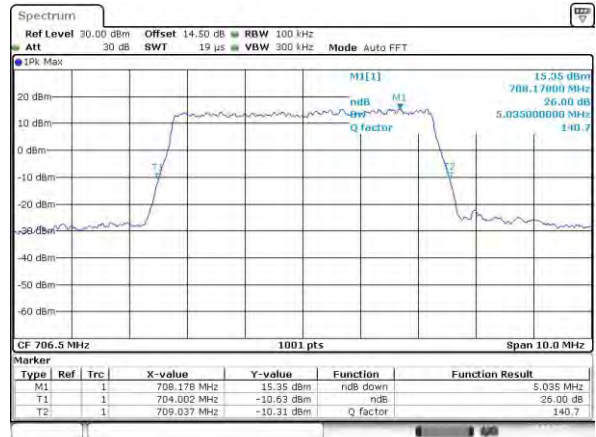


LTE Band 17

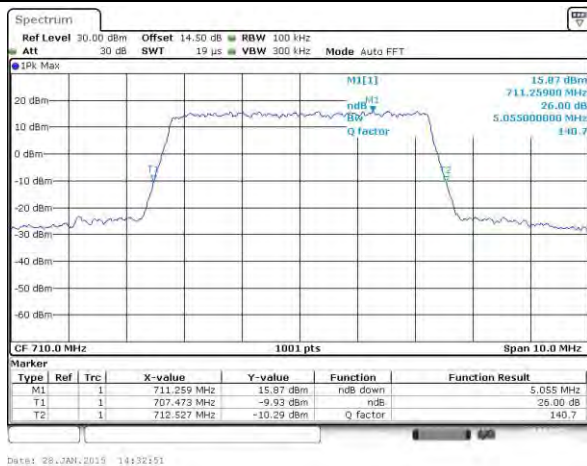
Lowest Channel / 5MHz / QPSK



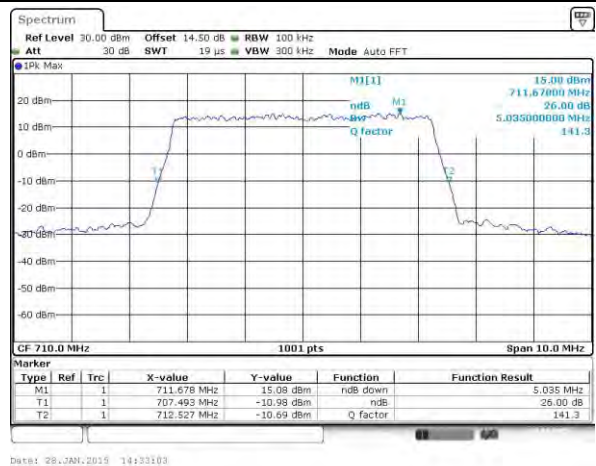
Lowest Channel / 5MHz / 16QAM



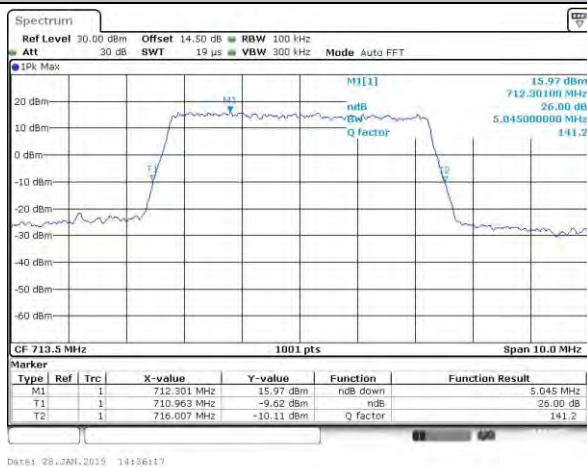
Middle Channel / 5MHz / QPSK



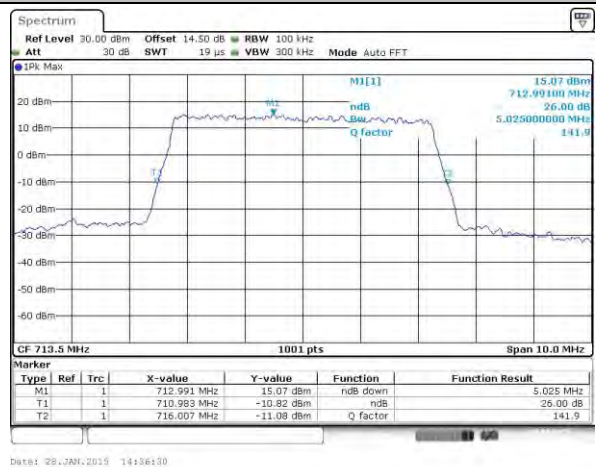
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



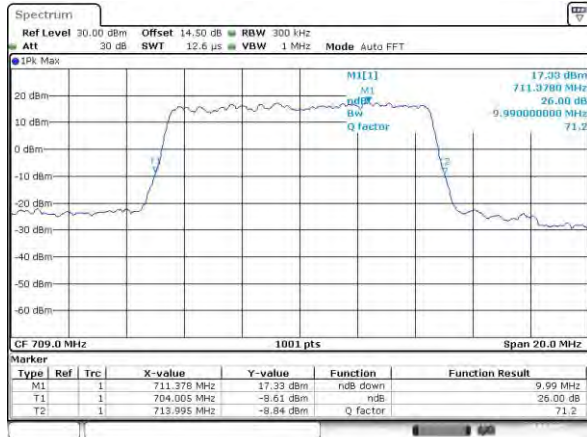
Highest Channel / 5MHz / 16QAM



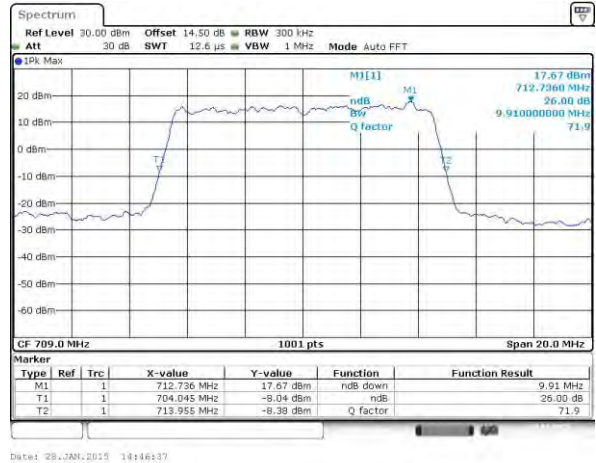


LTE Band 17

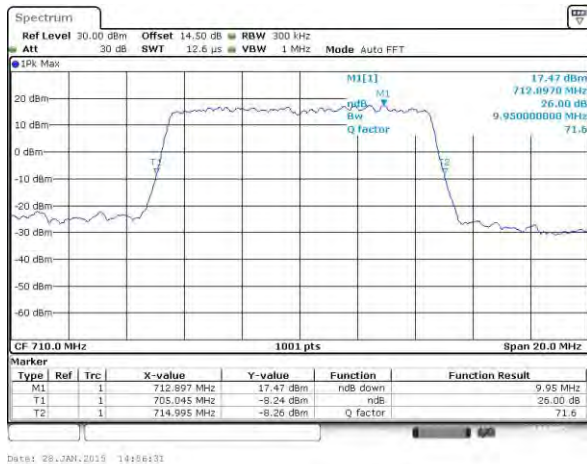
Lowest Channel / 10MHz / QPSK



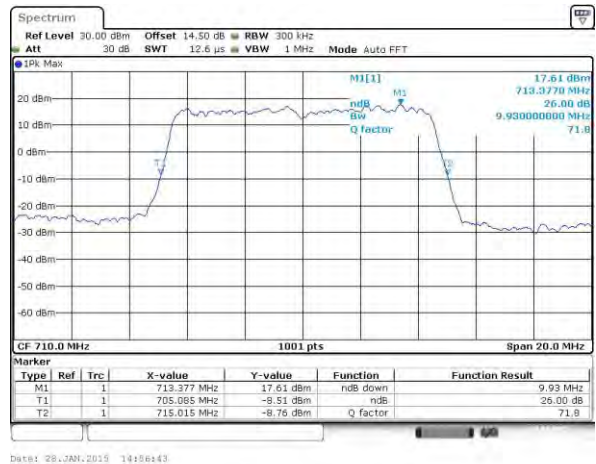
Lowest Channel / 10MHz / 16QAM



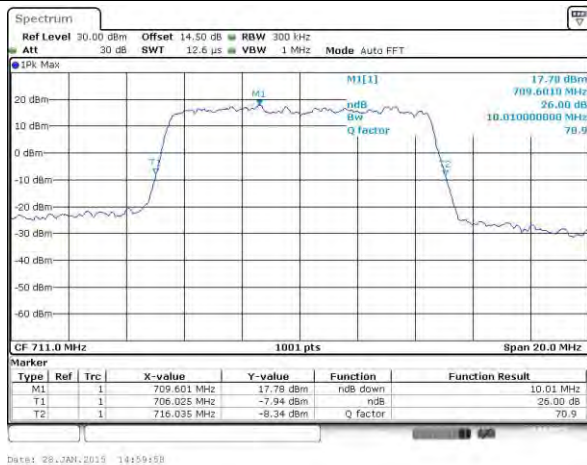
Middle Channel / 10MHz / QPSK



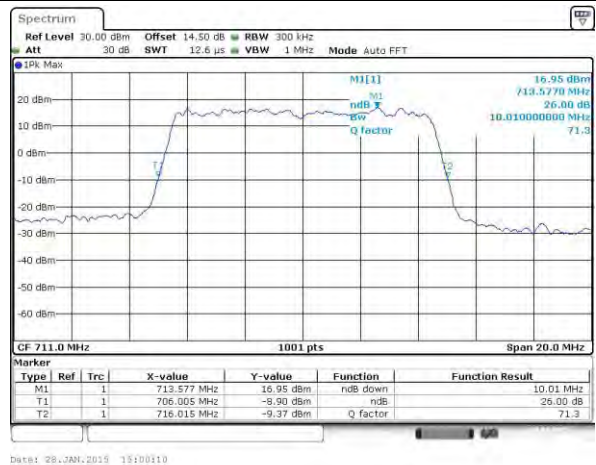
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM





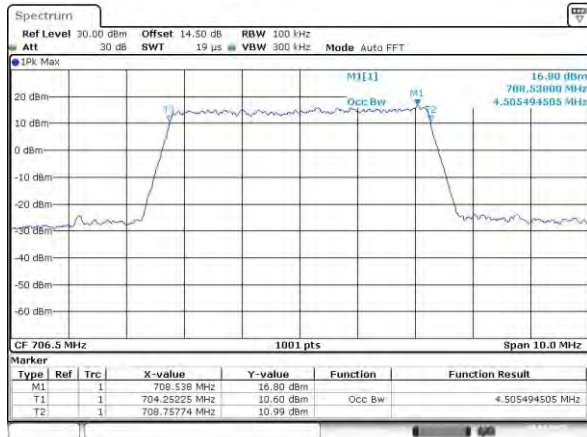
Occupied Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.51	4.51	9.05	8.99	-	-	-	-
Middle CH	-	-	-	-	4.50	4.50	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.51	4.50	9.03	8.99	-	-	-	-

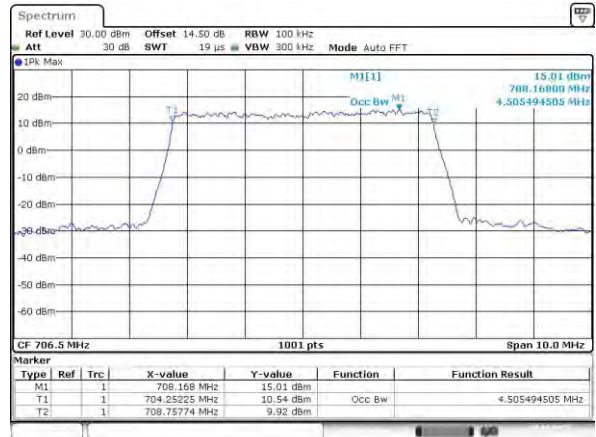


LTE Band 17

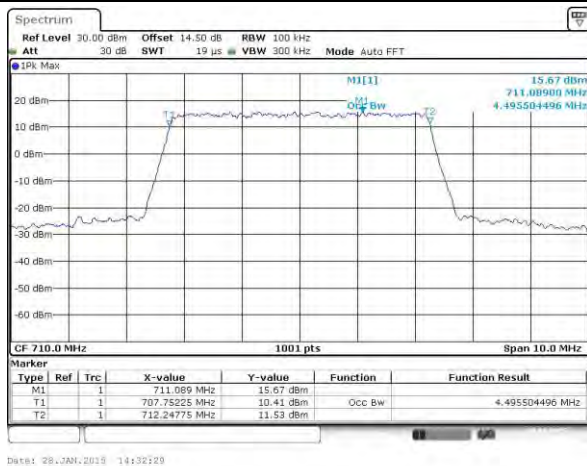
Lowest Channel / 5MHz / QPSK



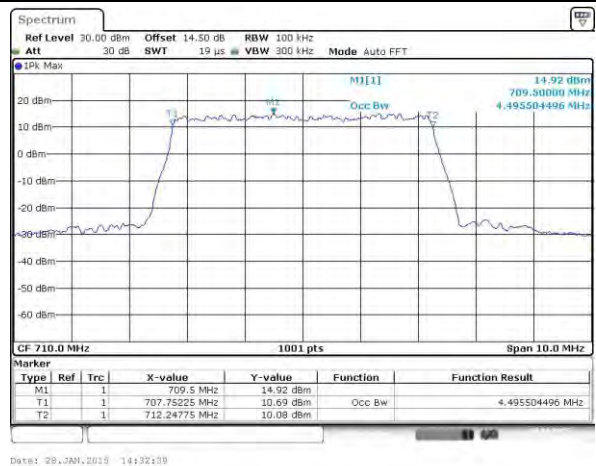
Lowest Channel / 5MHz / 16QAM



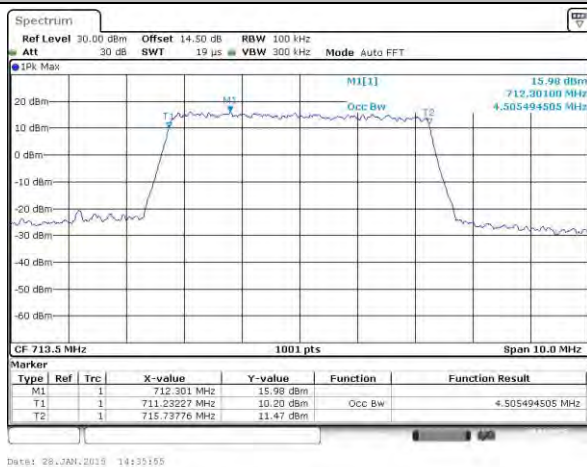
Middle Channel / 5MHz / QPSK



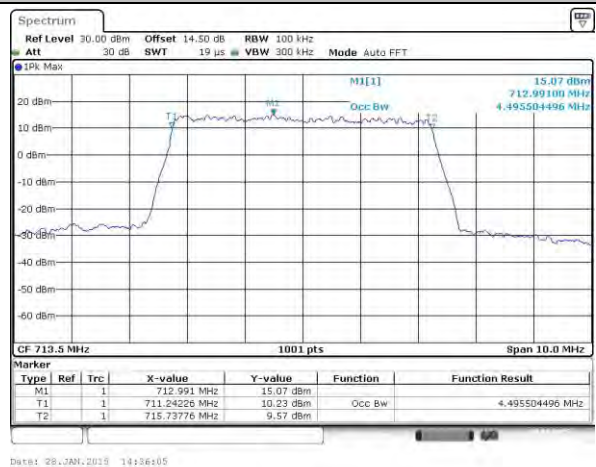
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



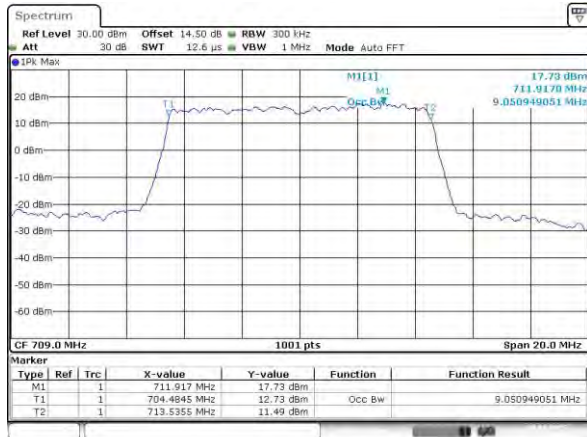
Highest Channel / 5MHz / 16QAM



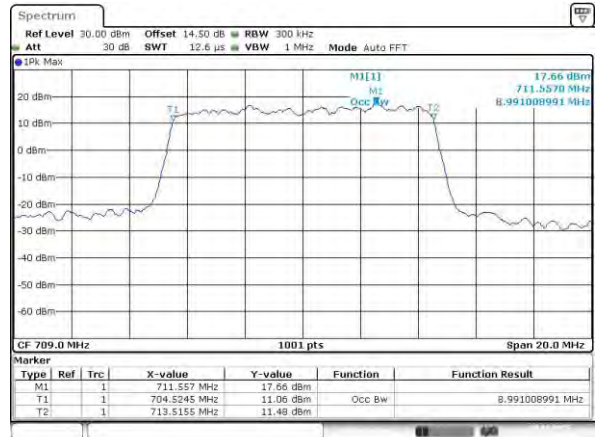


LTE Band 17

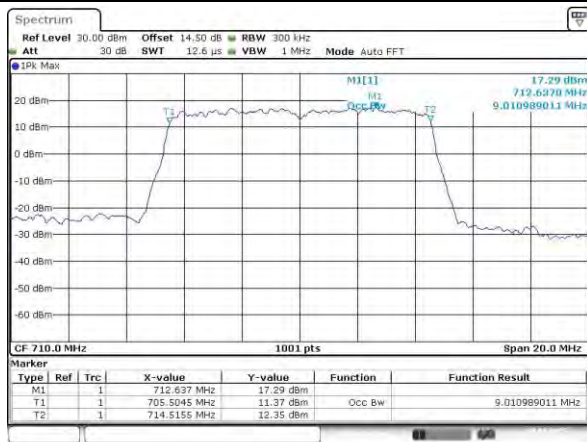
Lowest Channel / 10MHz / QPSK



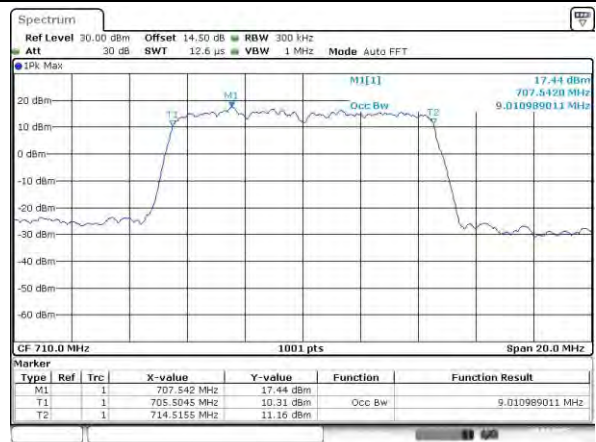
Lowest Channel / 10MHz / 16QAM



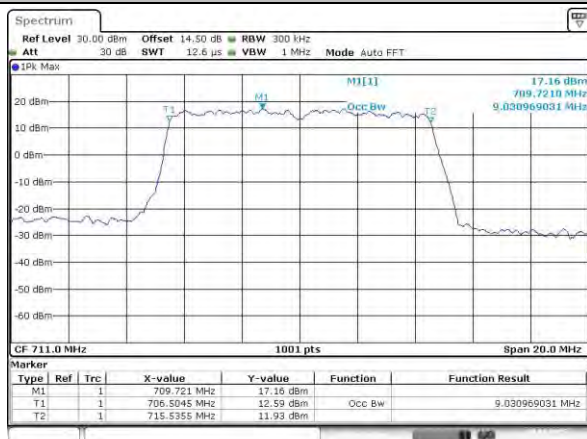
Middle Channel / 10MHz / QPSK



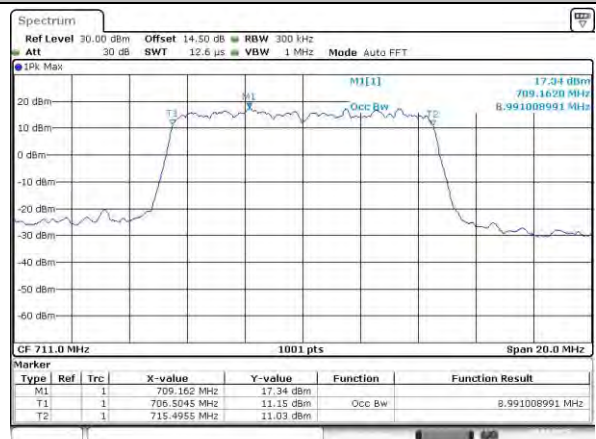
Middle Channel / 10MHz / 16QAM

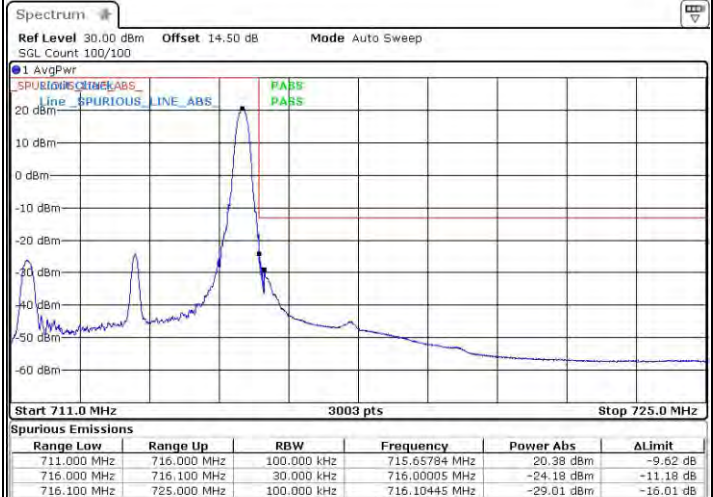


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

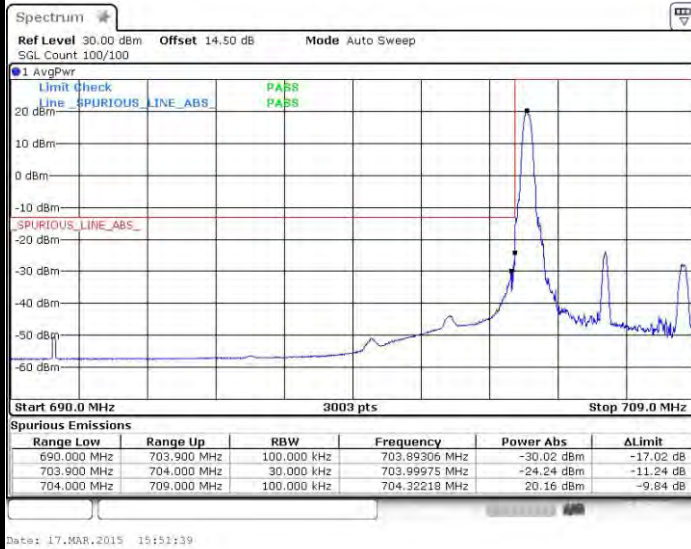


**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

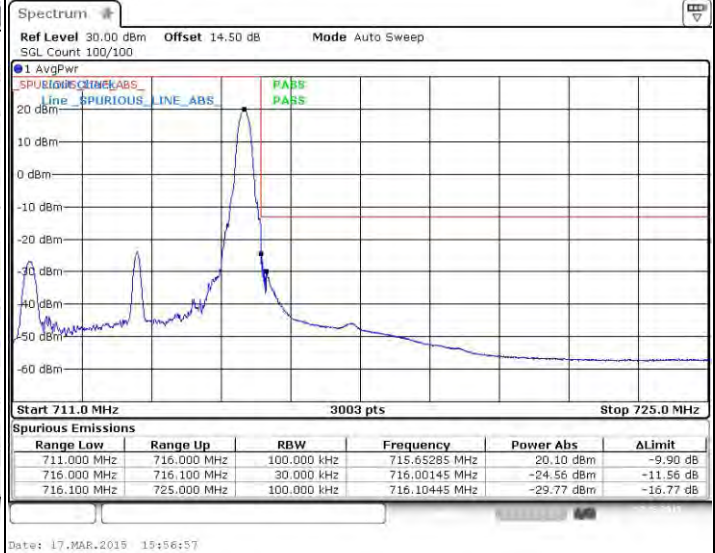


LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



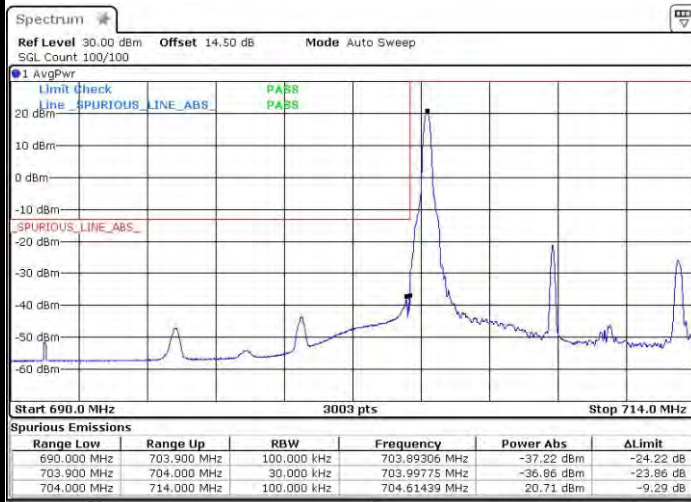
Highest Band Edge / Full RB



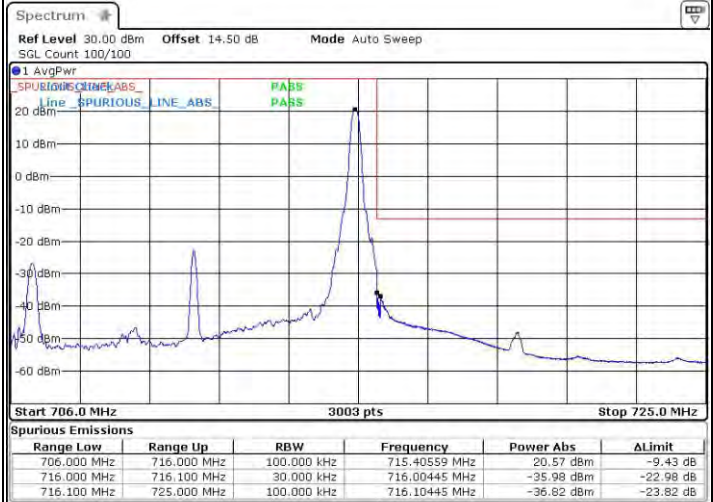


LTE Band 17 / 10MHz / QPSK

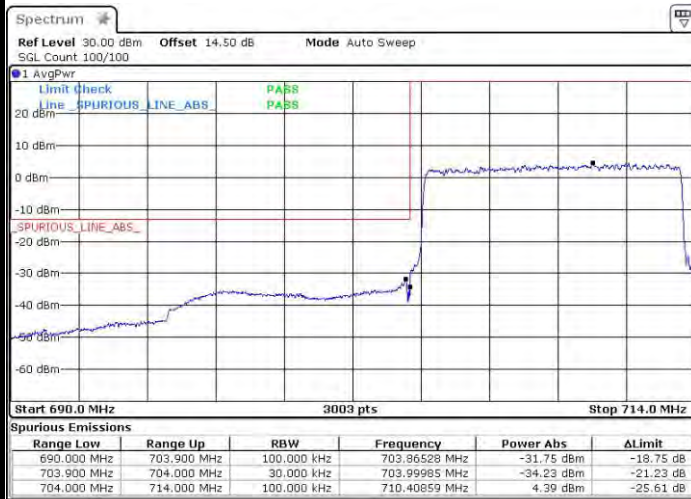
Lowest Band Edge / 1 RB



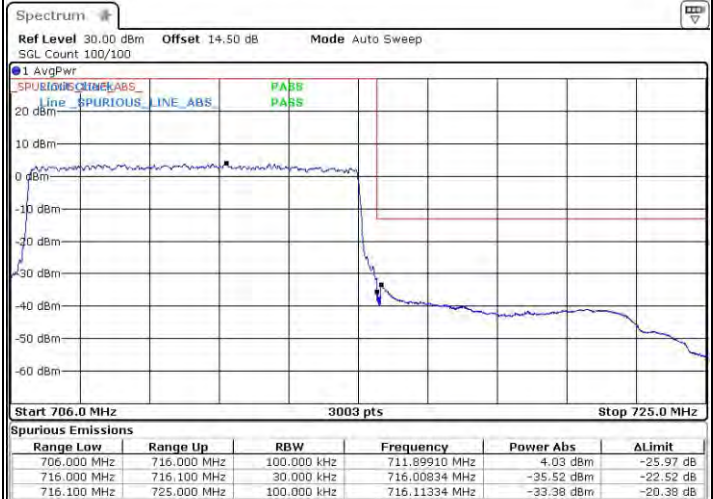
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



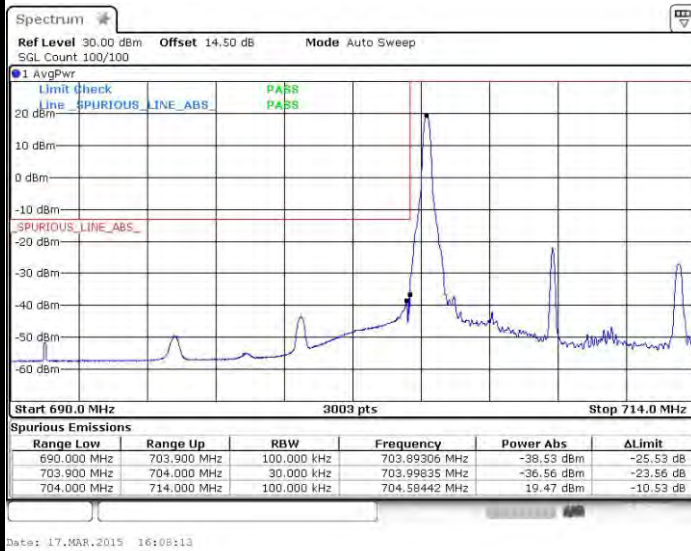
Highest Band Edge / Full RB



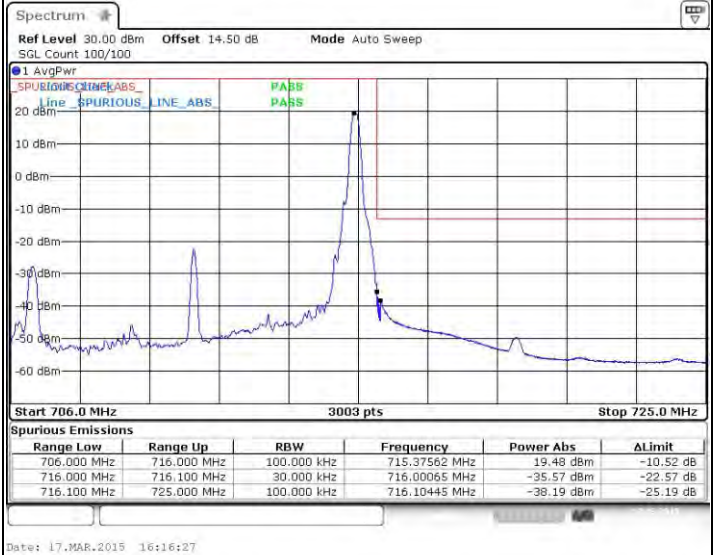


LTE Band 17 / 10MHz / 16QAM

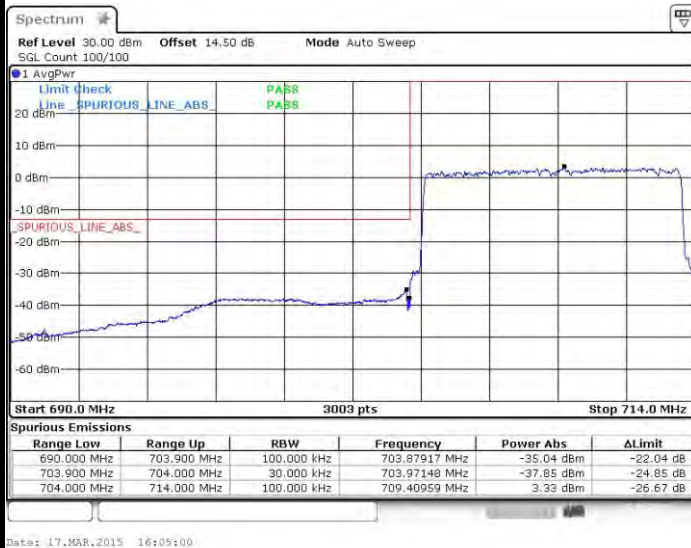
Lowest Band Edge / 1 RB



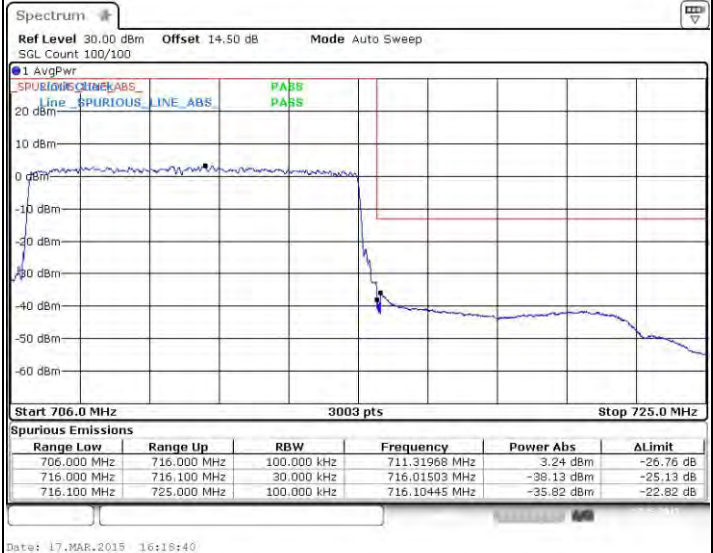
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

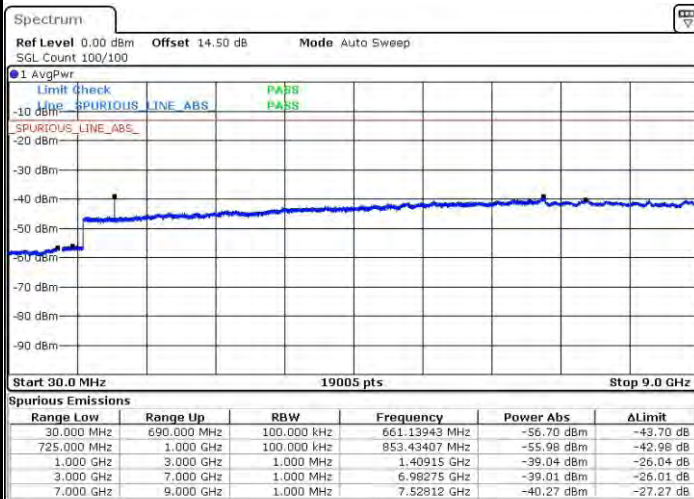




Conducted Spurious Emission

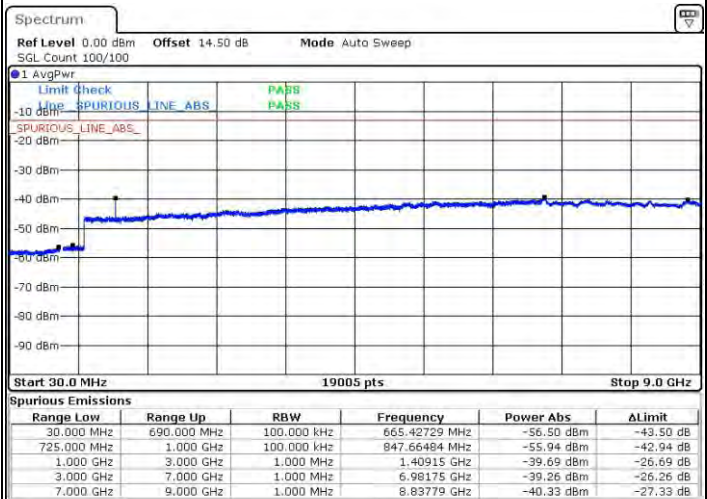
LTE Band 17 / 5MHz

Lowest Channel / QPSK



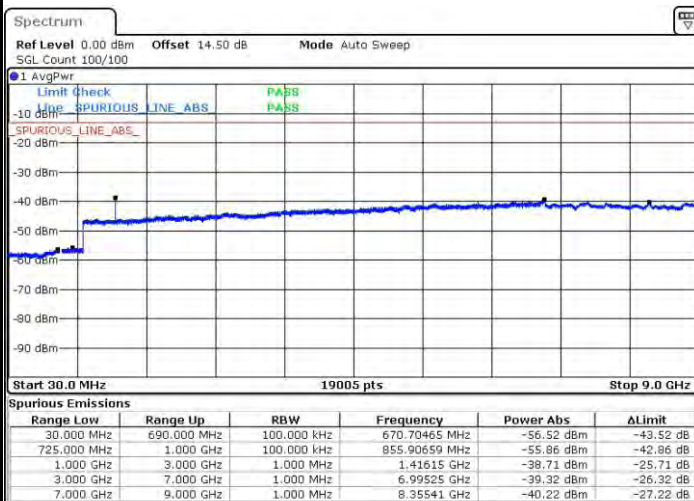
Date: 28.JAN.2015 14:30:46

Lowest Channel / 16QAM



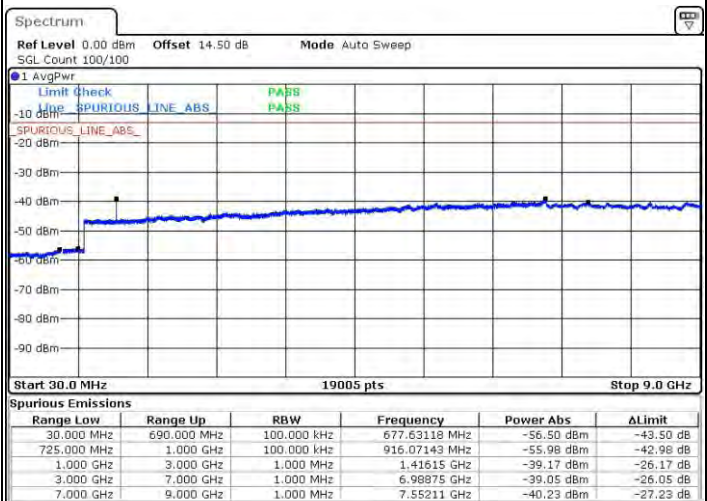
Date: 28.JAN.2015 14:32:07

Middle Channel / QPSK



Date: 28.JAN.2015 14:34:13

Middle Channel / 16QAM

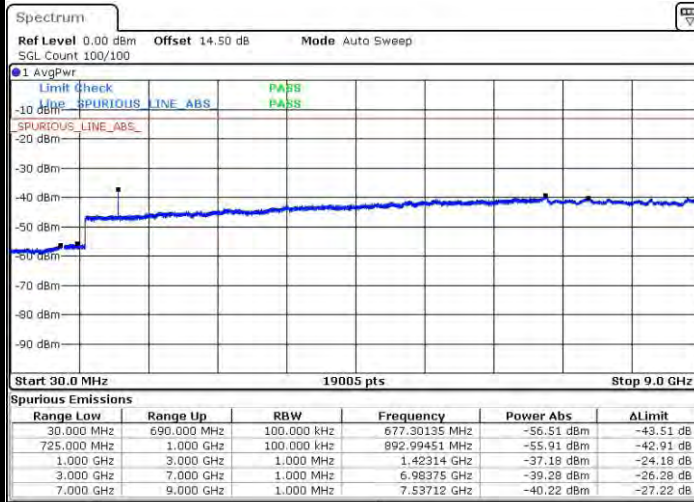


Date: 28.JAN.2015 14:35:34



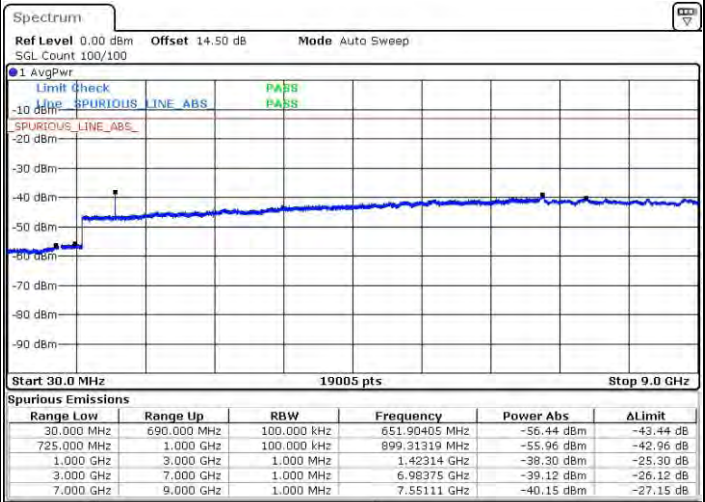
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 28.JAN.2015 14:44:20

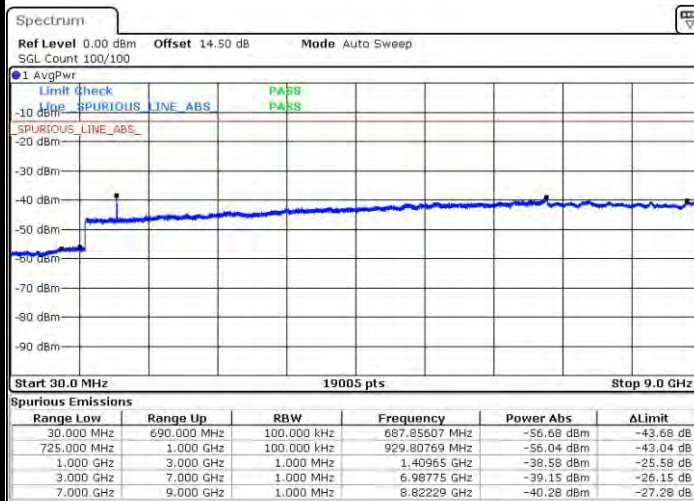
Highest Channel / 16QAM



Date: 28.JAN.2015 14:45:43

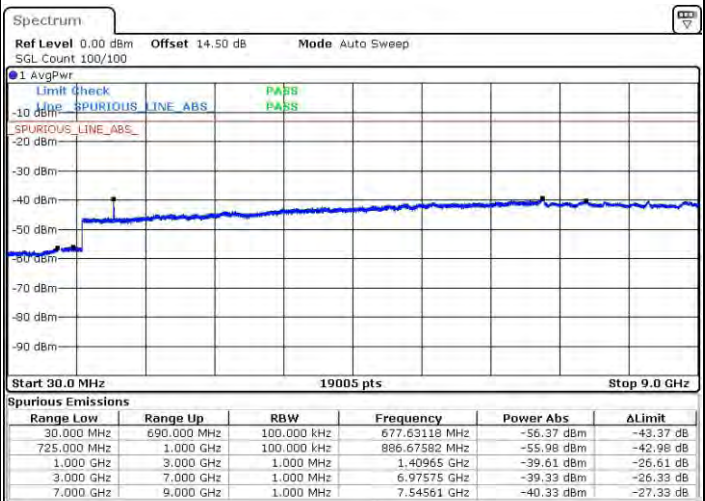
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 28.JAN.2015 14:54:27

Lowest Channel / 16QAM

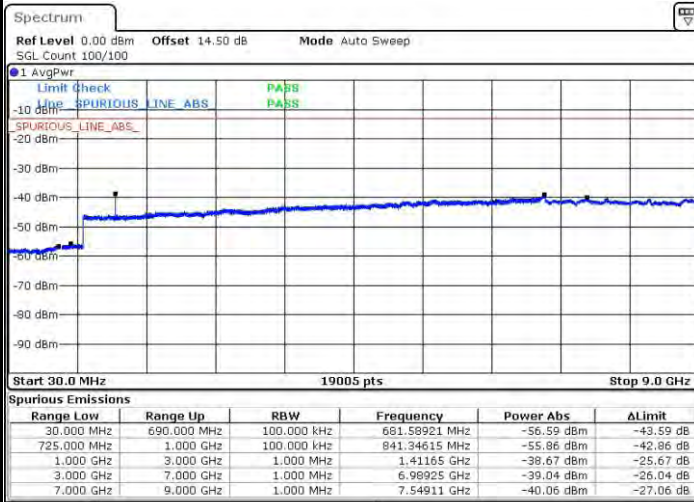


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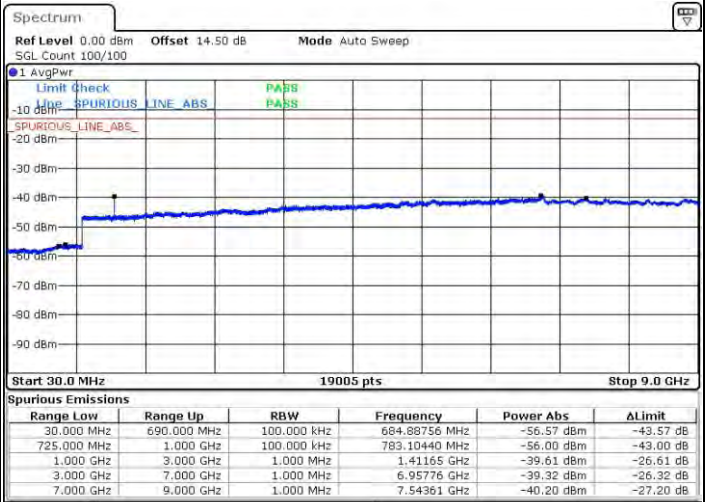
LTE Band 17 / 10MHz

Middle Channel / QPSK



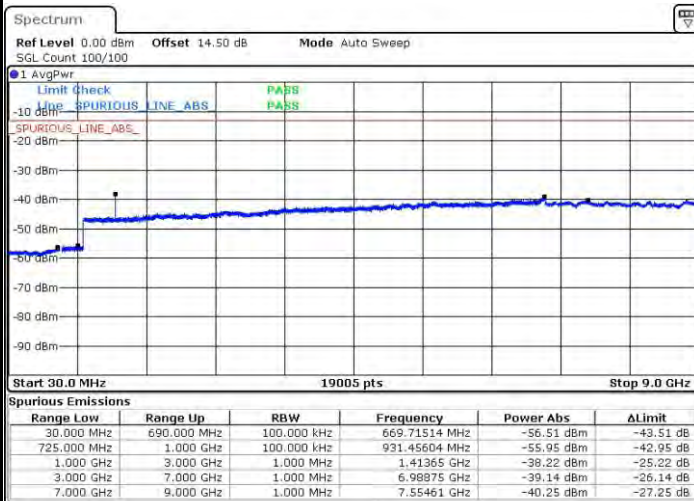
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Middle Channel / 16QAM



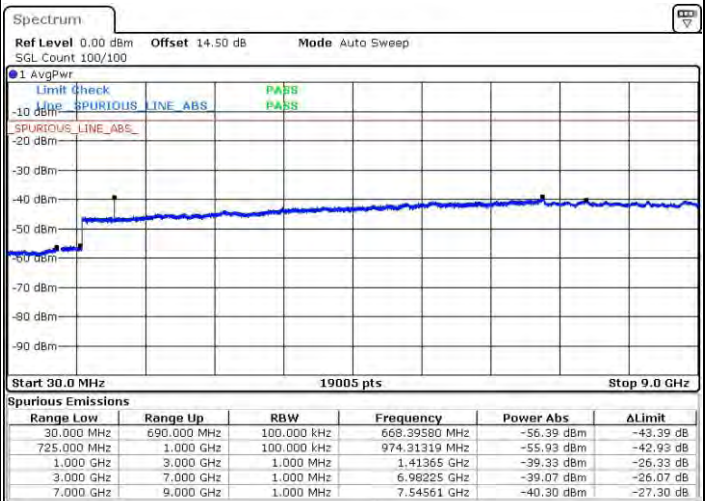
Date: 28.JAN.2015 14:59:14

Highest Channel / QPSK



Date: 28.JAN.2015 15:08:00

Highest Channel / 16QAM



Date: 28.JAN.2015 15:09:21

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage = 3.80V. ; Battery End Point (BEP) = 3.50 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 4 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	2	24.37	0.2735	24.81	0.3027
Middle		1	2	24.11	0.2576	24.44	0.2780
Highest		3	1	24.66	0.2924	25.14	0.3266
Lowest	16QAM	3	2	24.29	0.2685	24.40	0.2754
Middle		3	2	24.94	0.3119	25.28	0.3373
Highest		3	1	23.30	0.2138	23.67	0.2328
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.36	0.2729	24.56	0.2858
Middle		1	7	23.21	0.2094	24.06	0.2547
Highest		1	7	24.67	0.2931	25.17	0.3289
Lowest	16QAM	1	0	24.27	0.2673	23.99	0.2506
Middle		1	7	24.61	0.2891	24.97	0.3141
Highest		1	7	24.00	0.2512	24.36	0.2729
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	24.04	0.2535	24.17	0.2612
Middle		1	12	23.72	0.2355	24.60	0.2884
Highest		1	0	24.44	0.2780	24.33	0.2710
Lowest	16QAM	1	12	23.26	0.2118	23.51	0.2244
Middle		1	12	23.94	0.2477	24.47	0.2799
Highest		1	0	23.80	0.2399	24.32	0.2704
Limit	EIRP < 1W			Result		PASS	

LTE Band 4/ 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	24.99	0.3155	25.01	0.3170
Middle		1	24	24.03	0.2529	23.30	0.2138
Highest		1	24	25.20	0.3311	25.41	0.3475
Lowest	16QAM	1	24	24.28	0.2679	23.95	0.2483
Middle		1	24	25.18	0.3296	25.17	0.3289
Highest		1	24	23.17	0.2075	24.06	0.2547
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	24.79	0.3013	25.11	0.3243
Middle		1	0	24.20	0.2630	24.44	0.2780
Highest		1	0	24.91	0.3097	25.00	0.3162
Lowest	16QAM	1	37	23.04	0.2014	23.15	0.2065
Middle		1	0	25.23	0.3334	25.49	0.3540
Highest		1	0	23.28	0.2128	23.55	0.2265
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	24.71	0.2958	24.91	0.3097
Middle		1	49	23.93	0.2472	24.13	0.2588
Highest		1	49	25.17	0.3289	25.38	0.3451
Lowest	16QAM	1	49	23.96	0.2489	24.18	0.2618
Middle		1	49	25.01	0.3170	25.28	0.3373
Highest		1	49	23.03	0.2009	23.26	0.2118
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	12	19.53	0.0897	20.32	0.1076
Middle		1	12	18.68	0.0738	19.07	0.0807
Highest		1	12	20.04	0.1009	19.73	0.0940
Lowest	16QAM	1	12	18.63	0.0729	19.29	0.0849
Middle		1	12	19.78	0.0951	19.96	0.0991
Highest		1	12	19.00	0.0794	19.29	0.0849
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	19.86	0.0968	20.17	0.1040
Middle		1	0	18.71	0.0743	18.76	0.0752
Highest		1	0	19.78	0.0951	19.86	0.0968
Lowest	16QAM	1	0	18.25	0.0668	19.07	0.0807
Middle		1	0	20.00	0.1000	19.92	0.0982
Highest		1	24	19.41	0.0873	19.47	0.0885
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	37	20.02	0.1005	20.27	0.1064
Middle		1	0	19.12	0.0817	19.93	0.0984
Highest		1	37	19.87	0.0971	19.90	0.0977
Lowest	16QAM	1	0	19.28	0.0847	19.67	0.0927
Middle		1	37	20.18	0.1042	20.21	0.1050
Highest		1	37	19.58	0.0908	19.80	0.0955
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	49	19.87	0.0971	20.15	0.1035
Middle		1	49	18.05	0.0638	18.63	0.0729
Highest		1	49	19.68	0.0929	19.85	0.0966
Lowest	16QAM	1	49	18.81	0.0760	19.17	0.0826
Middle		1	49	20.36	0.1086	20.28	0.1067
Highest		1	0	19.59	0.0910	19.69	0.0931
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	12	18.78	0.0755	6.21	0.0042
Middle		1	12	18.20	0.0661	4.76	0.0030
Highest		1	12	18.60	0.0724	6.08	0.0041
Lowest	16QAM	1	24	18.13	0.0650	6.05	0.0040
Middle		1	12	18.83	0.0764	6.14	0.0041
Highest		1	12	18.12	0.0649	5.26	0.0034
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	24	18.93	0.0782	6.43	0.0044
Middle		1	24	17.79	0.0601	6.06	0.0040
Highest		1	24	18.92	0.0780	6.14	0.0041
Lowest	16QAM	1	24	17.89	0.0615	5.43	0.0035
Middle		1	24	18.84	0.0766	6.06	0.0040
Highest		1	24	17.80	0.0603	5.09	0.0032
Limit	ERP < 3W			Result		PASS	

Radiated Spurious Emission

Band :	LTE Band 4				Temperature :	23~25℃			
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang				Polarization :	Horizontal			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3463.92	-56.50	-13	-43.50	-58.82	-64.72	0.98	9.20	H	Pass
5196	-37.67	-13	-24.67	-43.68	-47.06	1.11	10.50	H	Pass
6932	-35.34	-13	-22.34	-49.68	-43.94	1.2	9.80	H	Pass

Band :	LTE Band 4					Temperature :	23~25°C		
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Gavin Zhang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3463.92	-60.96	-13	-47.96	-63.31	-69.18	0.98	9.2	V	Pass
5196	-39.14	-13	-26.14	-46.87	-48.53	1.11	10.5	V	Pass
6932	-37.50	-13	-24.50	-50.64	-46.10	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25℃						
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Gavin Zhang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3462.48	-57.11	-13	-44.11	-59.43	-65.33	0.98	9.20	H	Pass
5193.72	-40.42	-13	-27.42	-46.43	-49.81	1.11	10.50	H	Pass
6924.96	-37.91	-13	-24.91	-52.25	-46.51	1.2	9.80	H	Pass

Band :	LTE Band 4					Temperature :	23~25°C		
Test Mode :	3MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Gavin Zhang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3462.48	-59.58	-13	-46.58	-61.93	-67.80	0.98	9.2	V	Pass
5193.72	-41.81	-13	-28.81	-49.54	-51.20	1.11	10.5	V	Pass
6924.96	-39.71	-13	-26.71	-52.85	-48.31	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25℃						
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Gavin Zhang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3460.68	-58.02	-13	-45.02	-60.34	-66.24	0.98	9.20	H	Pass
5191.02	-43.00	-13	-30.00	-49.01	-52.39	1.11	10.50	H	Pass
6921.36	-38.19	-13	-25.19	-52.53	-46.79	1.2	9.80	H	Pass

Band :	LTE Band 4				Temperature :	23~25°C			
Test Mode :	5MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang				Polarization :	Vertical			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3460.68	-60.21	-13	-47.21	-62.56	-68.43	0.98	9.2	V	Pass
5191.02	-44.37	-13	-31.37	-52.1	-53.76	1.11	10.5	V	Pass
6921.36	-41.10	-13	-28.10	-54.24	-49.70	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25℃						
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Gavin Zhang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3456.18	-56.72	-13	-43.72	-59.04	-64.94	0.98	9.20	H	Pass
5184.27	-38.88	-13	-25.88	-44.89	-48.27	1.11	10.50	H	Pass
6912.36	-34.23	-13	-21.23	-48.57	-42.83	1.2	9.80	H	Pass

Band :	LTE Band 4				Temperature :	23~25°C			
Test Mode :	10MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang				Polarization :	Vertical			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3456.18	-60.42	-13	-47.42	-62.77	-68.64	0.98	9.2	V	Pass
5184.27	-42.38	-13	-29.38	-50.11	-51.77	1.11	10.5	V	Pass
6912.36	-36.80	-13	-23.80	-49.94	-45.40	1.2	9.8	V	Pass



Band :	LTE Band 4				Temperature :	23~25℃			
Test Mode :	15MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang				Polarization :	Horizontal			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3451.68	-61.04	-13	-48.04	-63.36	-69.26	0.98	9.20	H	Pass
5177.52	-47.37	-13	-34.37	-53.38	-56.76	1.11	10.50	H	Pass
6903.36	-44.49	-13	-31.49	-58.83	-53.09	1.2	9.80	H	Pass

Band :	LTE Band 4				Temperature :	23~25°C			
Test Mode :	15MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang				Polarization :	Vertical			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3451.68	-61.54	-13	-48.54	-63.89	-69.76	0.98	9.2	V	Pass
5177.52	-51.23	-13	-38.23	-58.96	-60.62	1.11	10.5	V	Pass
6903.36	-45.07	-13	-32.07	-58.21	-53.67	1.2	9.8	V	Pass



Band :	LTE Band 4				Temperature :	23~25℃			
Test Mode :	20MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Gavin Zhang				Polarization :	Horizontal			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3447.18	-59.91	-13	-46.91	-62.23	-68.13	0.98	9.20	H	Pass
5170.77	-51.16	-13	-38.16	-57.17	-60.55	1.11	10.50	H	Pass
6894.36	-44.77	-13	-31.77	-59.11	-53.37	1.2	9.80	H	Pass

Band :	LTE Band 4					Temperature :	23~25°C		
Test Mode :	20MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Gavin Zhang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3447.18	-60.28	-13	-47.28	-62.63	-68.50	0.98	9.2	V	Pass
5170.77	-47.52	-13	-34.52	-55.25	-56.91	1.11	10.5	V	Pass
6894.36	-40.50	-13	-27.50	-53.64	-49.10	1.2	9.8	V	Pass



Band :	LTE Band 7	Temperature :	23~25℃						
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
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)	Result
5065.68	-60.90	-25	-35.90	-65.89	-70.20	1.2	10.50	H	Pass
7598.52	-54.62	-25	-29.62	-64.73	-62.16	1.56	9.10	H	Pass
10131.36	-51.17	-25	-26.17	-67.80	-60.09	1.78	10.70	H	Pass

Band :	LTE Band 7	Temperature :	23~25°C						
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
5065.68	-59.38	-25	-34.38	-65.97	-68.68	1.2	10.50	V	Pass
7598.52	-54.82	-25	-29.82	-65.39	-62.36	1.56	9.10	V	Pass
10131.36	-50.86	-25	-25.86	-67.01	-59.78	1.78	10.70	V	Pass



Band :	LTE Band 7	Temperature :	23~25℃						
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
5061.18	-62.73	-25	-37.73	-67.72	-72.03	1.2	10.50	H	Pass
7591.77	-55.43	-25	-30.43	-65.54	-62.97	1.56	9.10	H	Pass
10122.36	-51.05	-25	-26.05	-67.68	-59.97	1.78	10.70	H	Pass

Band :	LTE Band 7				Temperature :	23~25°C			
Test Mode :	10MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Kaer Huang				Polarization :	Vertical			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
5061.18	-60.73	-25	-35.73	-67.32	-70.03	1.2	10.50	V	Pass
7591.77	-54.60	-25	-29.60	-65.17	-62.14	1.56	9.10	V	Pass
10122.36	-51.00	-25	-26.00	-67.15	-59.92	1.78	10.70	V	Pass



Band :	LTE Band 7	Temperature :	23~25℃						
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
5056.68	-54.99	-25	-29.99	-65.93	-61.39	1.2	7.60	H	Pass
7585.02	-45.97	-25	-20.97	-64.78	-54.31	1.56	9.90	H	Pass
10131.36	-43.60	-25	-18.60	-67.12	-53.42	1.78	11.60	H	Pass

Band :	LTE Band 7					Temperature :	23~25°C		
Test Mode :	15MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
5056.68	-53.22	-25	-28.22	-65.94	-59.62	1.2	7.60	V	Pass
7585.02	-46.05	-25	-21.05	-65.3	-54.39	1.56	9.90	V	Pass
10131.36	-44.50	-25	-19.50	-67.73	-54.32	1.78	11.60	V	Pass



Band :	LTE Band 7	Temperature :	23~25℃						
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
5052.18	-54.09	-25	-29.09	-65.03	-60.49	1.2	7.60	H	Pass
7578.27	-46.18	-25	-21.18	-64.99	-54.52	1.56	9.90	H	Pass
10104.36	-43.43	-25	-18.43	-66.95	-53.25	1.78	11.60	H	Pass

Band :	LTE Band 7					Temperature :	23~25°C		
Test Mode :	20MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
5052.18	-53.11	-25	-28.11	-65.83	-59.51	1.2	7.60	V	Pass
7578.27	-45.91	-25	-20.91	-65.16	-54.25	1.56	9.90	V	Pass
10104.36	-44.09	-25	-19.09	-67.32	-53.91	1.78	11.60	V	Pass



Band :	LTE Band 17					Temperature :	23~25°C		
Test Mode :	5MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Horizontal		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1415.68	-37.88	-13	-24.88	-54.57	-40.81	0.78	5.86	H	Pass
2123.52	-39.20	-13	-26.20	-63.35	-41.80	1	5.75	H	Pass
2831.36	-48.26	-13	-35.26	-58.62	-52.56	1.05	7.50	H	Pass
3539.2	-44.54	-13	-31.54	-59.21	-49.79	1.3	8.70	H	Pass

Band :	LTE Band 17					Temperature :	23~25°C		
Test Mode :	5MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1415.68	-40.30	-13	-27.30	-53.75	-43.23	0.78	5.86	V	Pass
2123.52	-39.81	-13	-26.81	-61.97	-42.41	1.00	5.75	V	Pass
2831.36	-48.00	-13	-35.00	-59.78	-52.30	1.05	7.50	V	Pass
3539.2	-45.53	-13	-32.53	-60.77	-50.78	1.30	8.70	V	Pass



Band :	LTE Band 17				Temperature :	23~25°C			
Test Mode :	10MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Kaer Huang				Polarization :	Horizontal			
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1411.18	-32.95	-13	-19.95	-49.80	-35.88	0.78	5.86	H	Pass
2116.77	-37.71	-13	-24.71	-62.26	-40.31	1	5.75	H	Pass
2822.36	-44.00	-13	-31.00	-55.33	-48.30	1.05	7.50	H	Pass
3527.95	-43.26	-13	-30.26	-58.19	-48.51	1.3	8.70	H	Pass

Band :	LTE Band 17					Temperature :	23~25°C		
Test Mode :	10MHz QPSK RB Size 1 Offset 0					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1GHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1411.18	-35.07	-13	-22.07	-49.00	-38.00	0.78	5.86	V	Pass
2116.77	-35.35	-13	-22.35	-57.95	-37.95	1.00	5.75	V	Pass
2822.36	-45.10	-13	-32.10	-58.02	-49.40	1.05	7.50	V	Pass
3527.95	-44.84	-13	-31.84	-60.30	-50.09	1.30	8.70	V	Pass