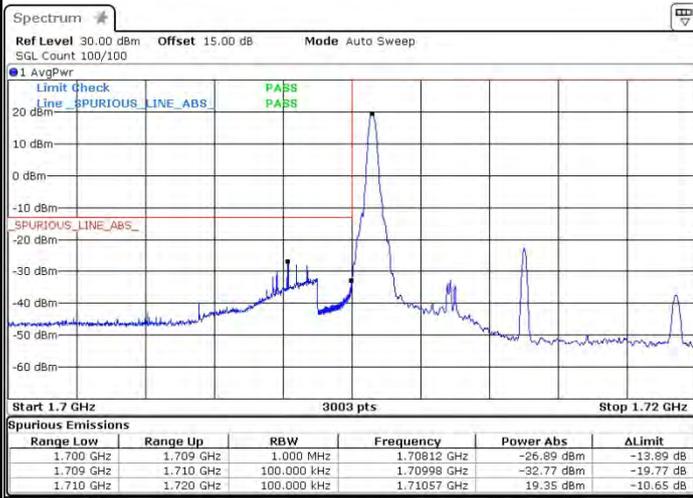


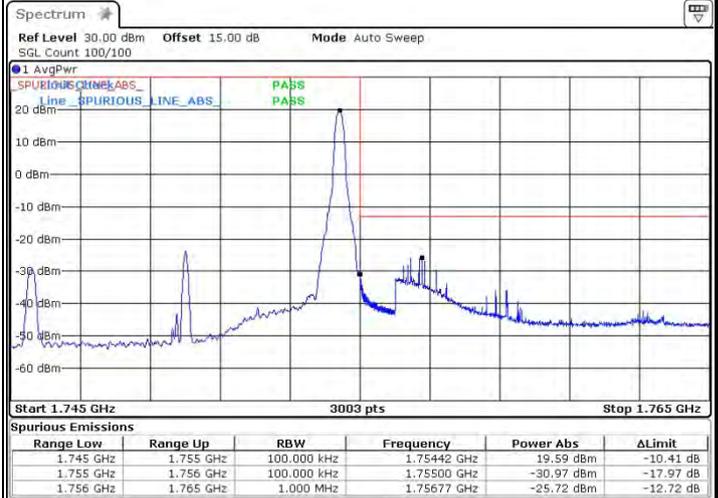


LTE Band 4 / 10MHz / 16QAM

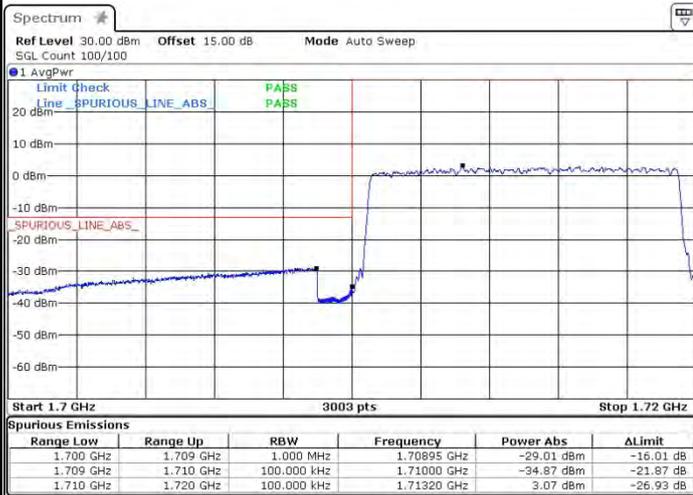
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





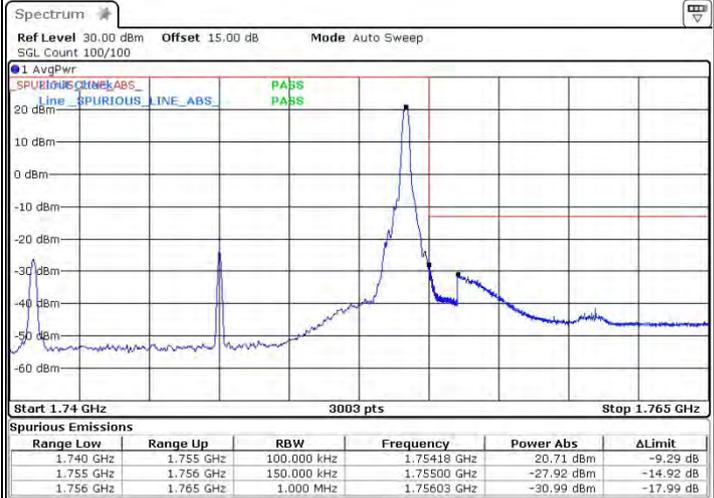
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



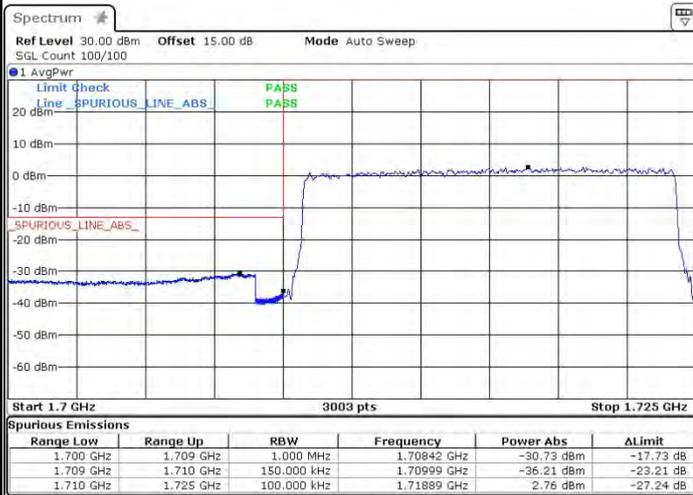
Date: 18.MAR.2015 16:26:50

Highest Band Edge / 1 RB



Date: 18.MAR.2015 16:22:29

Lowest Band Edge / Full RB



Date: 18.MAR.2015 16:24:46

Highest Band Edge / Full RB

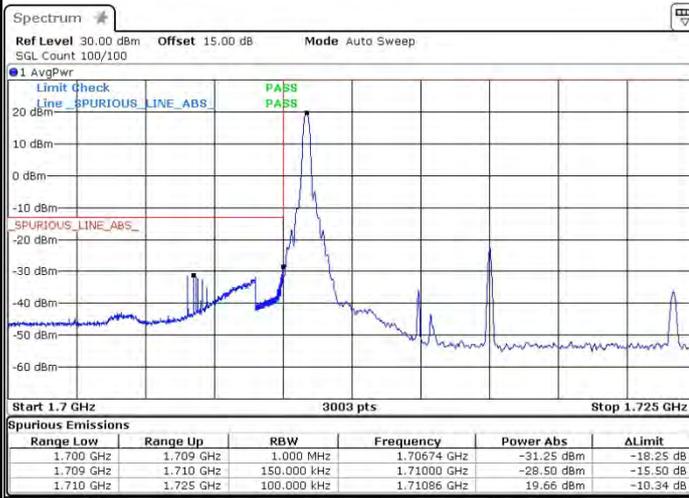


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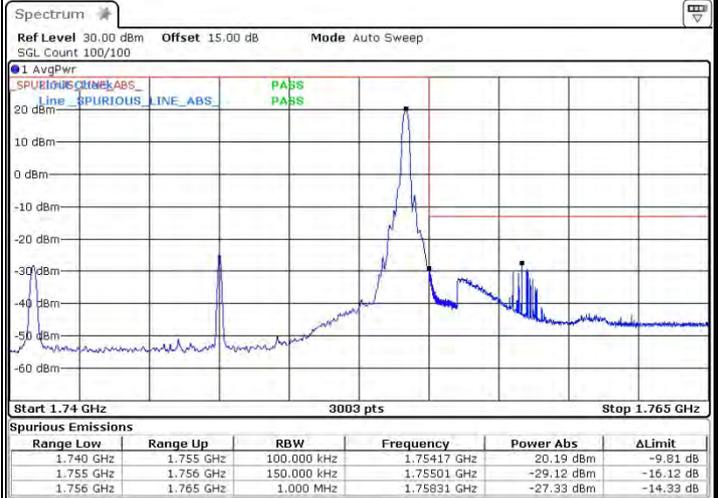
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



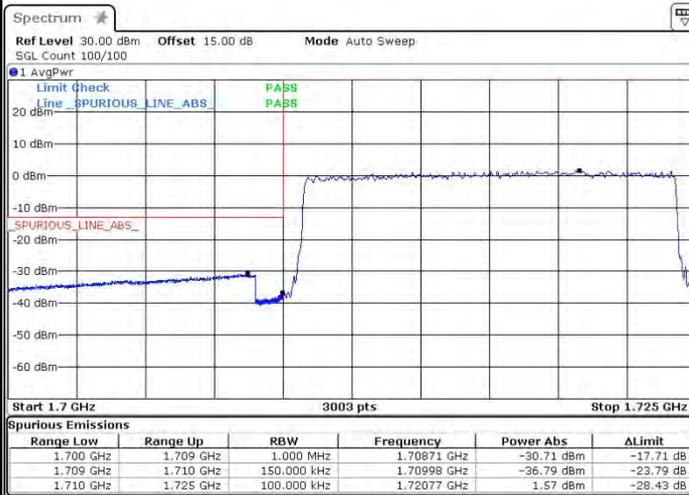
Date: 18.MAR.2015 16:26:16

Highest Band Edge / 1 RB



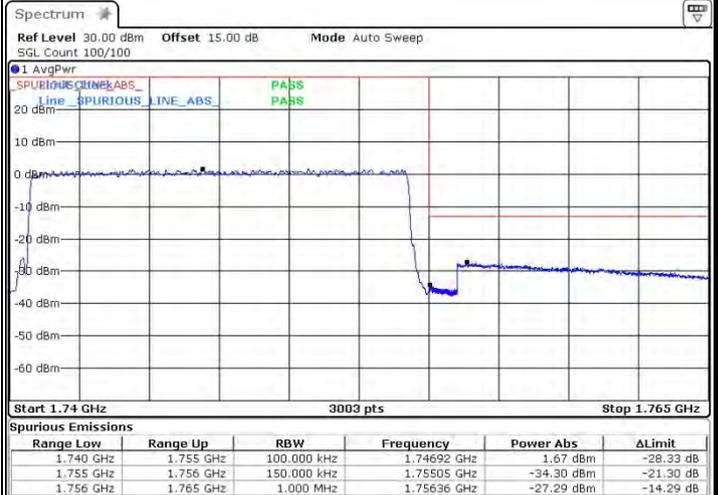
Date: 18.MAR.2015 16:23:03

Lowest Band Edge / Full RB



Date: 18.MAR.2015 16:25:50

Highest Band Edge / Full RB

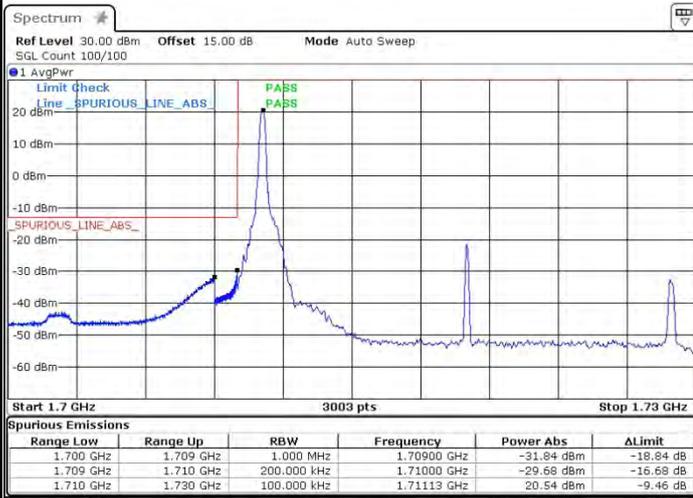


Date: 18.MAR.2015 16:23:36



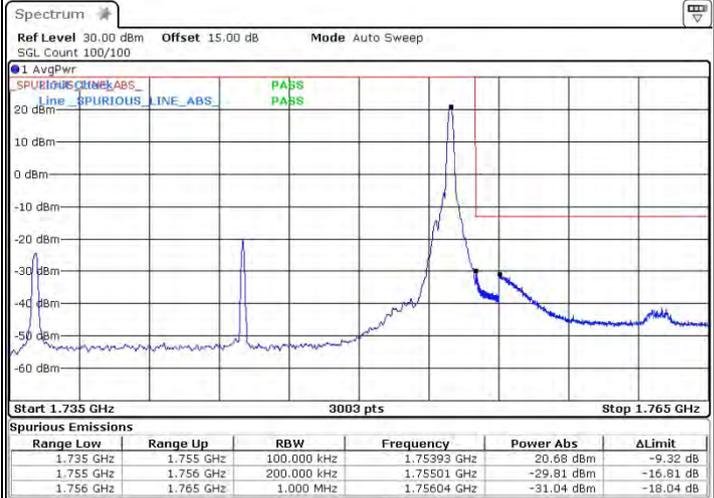
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



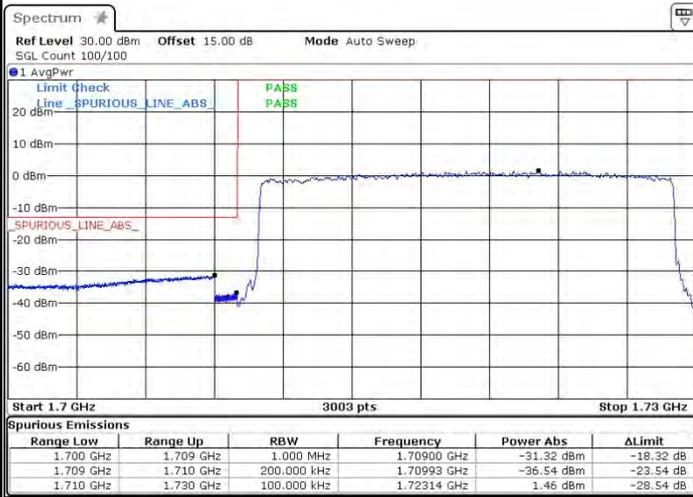
Date: 18.MAR.2015 15:44:06

Highest Band Edge / 1 RB



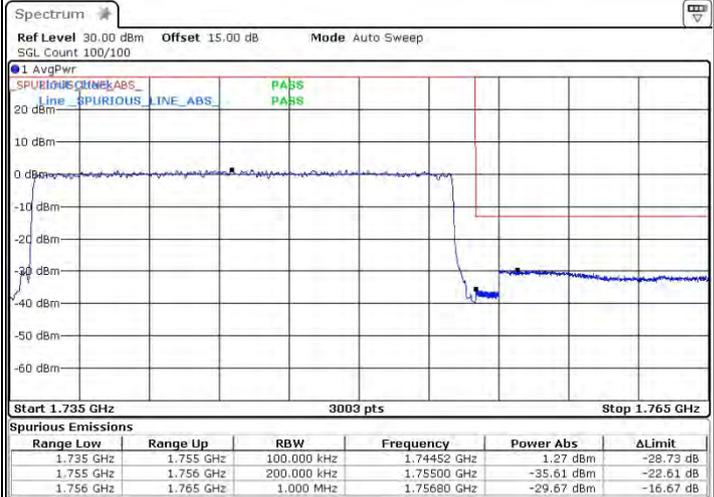
Date: 18.MAR.2015 16:21:39

Lowest Band Edge / Full RB



Date: 18.MAR.2015 16:09:43

Highest Band Edge / Full RB

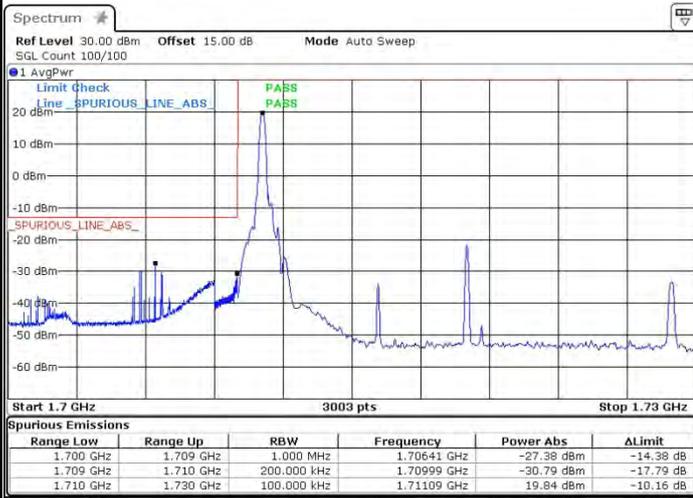


Date: 18.MAR.2015 16:11:27



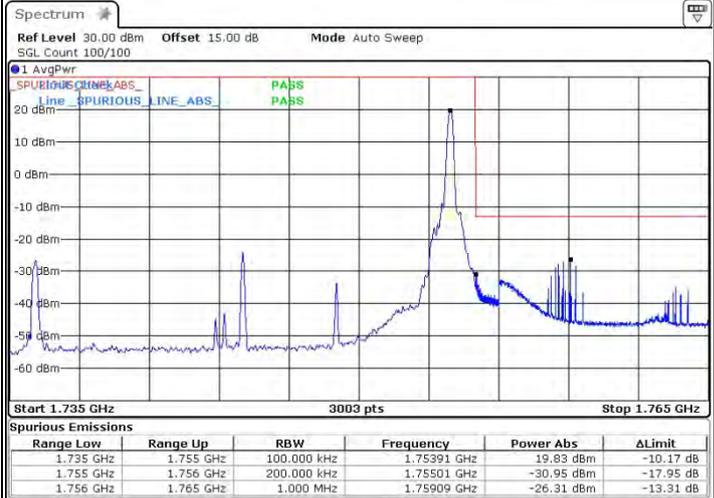
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



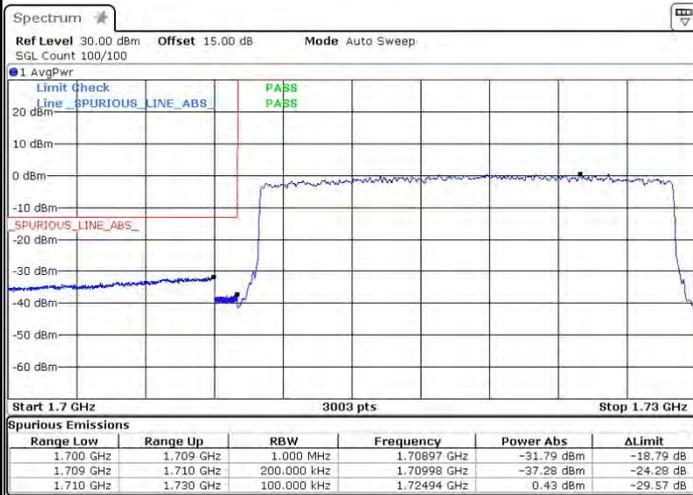
Date: 18.MAR.2015 15:48:58

Highest Band Edge / 1 RB



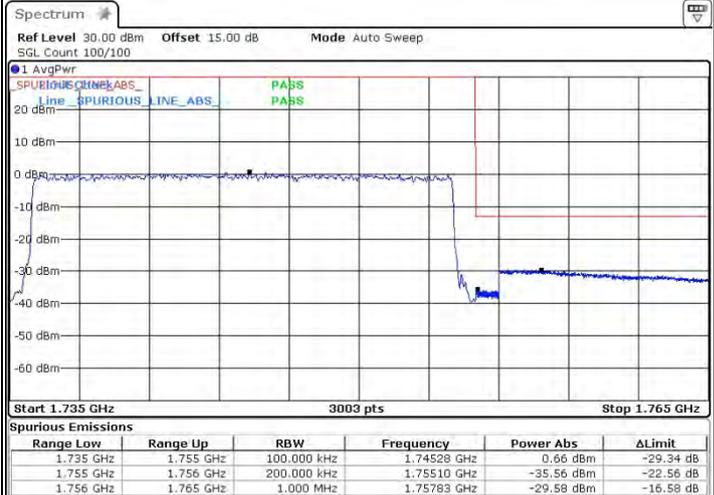
Date: 18.MAR.2015 16:12:34

Lowest Band Edge / Full RB



Date: 18.MAR.2015 16:08:36

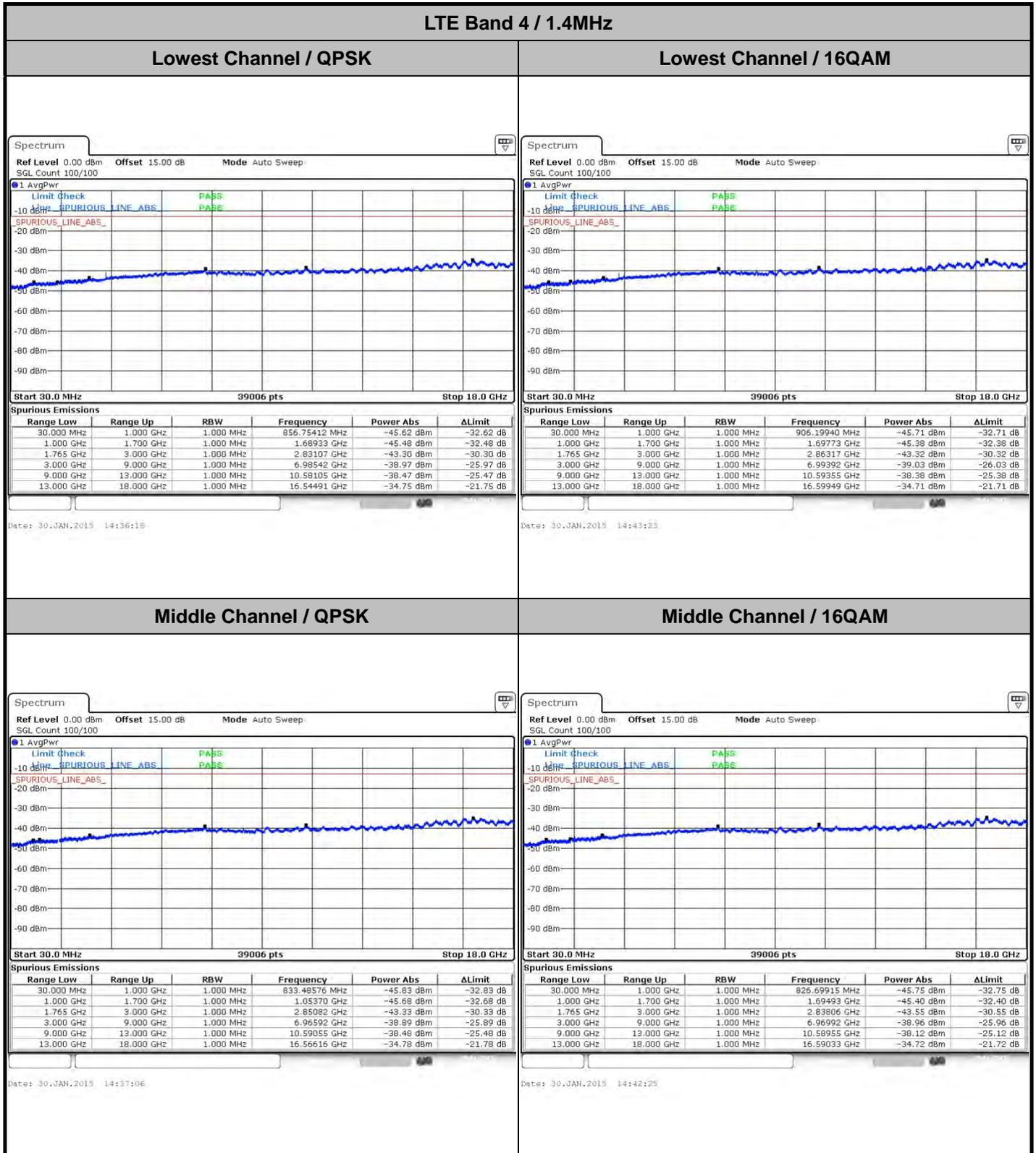
Highest Band Edge / Full RB



Date: 18.MAR.2015 16:12:10



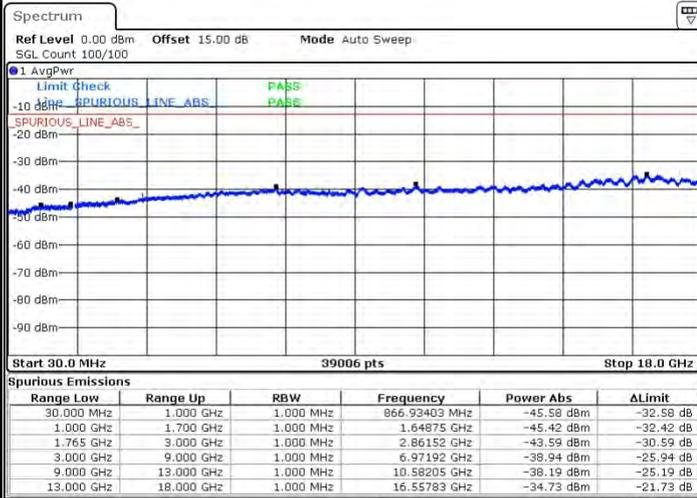
Conducted Spurious Emission





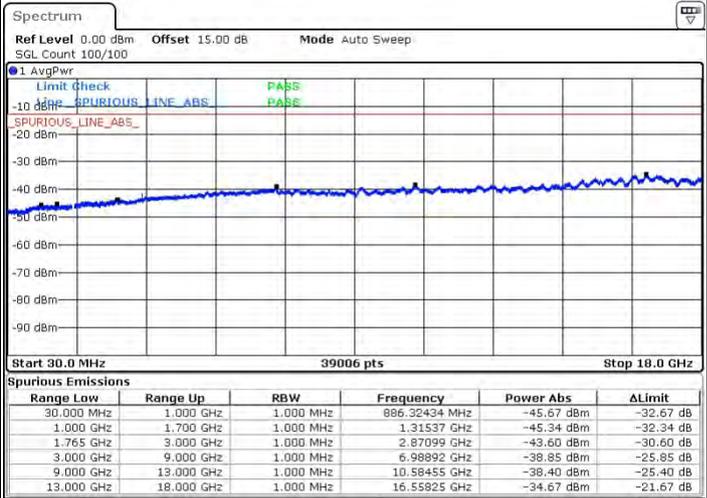
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 30.JAN.2015 14:40:28

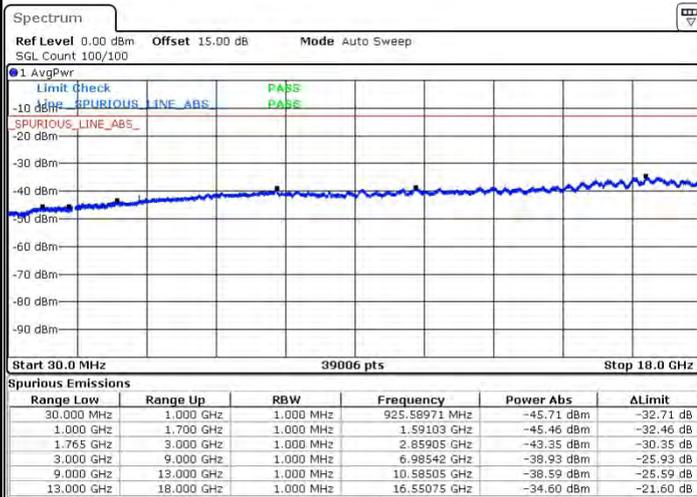
Highest Channel / 16QAM



Date: 30.JAN.2015 14:41:42

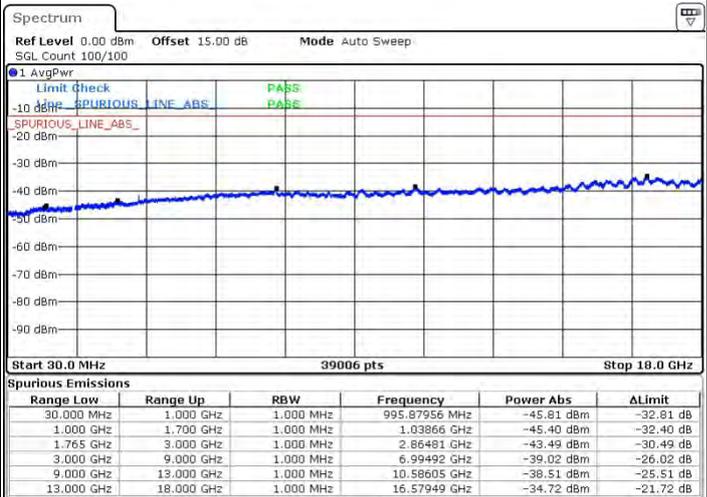
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 30.JAN.2015 10:51:21

Lowest Channel / 16QAM



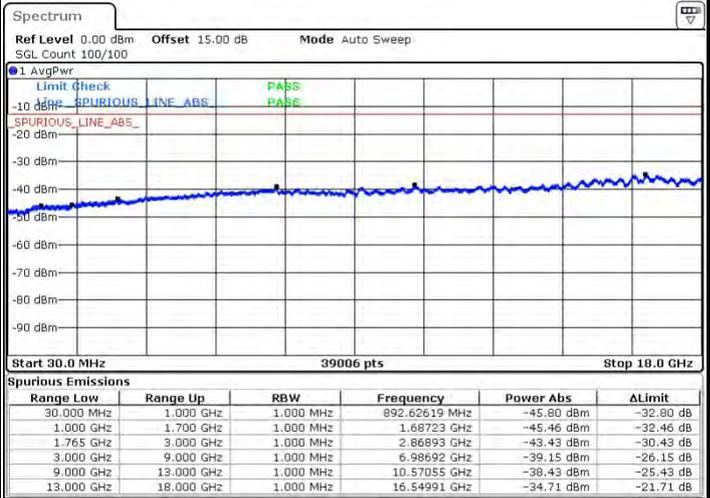
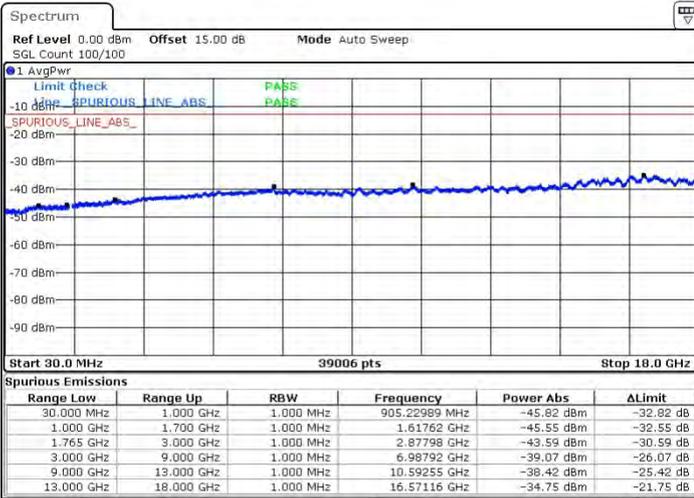
Date: 30.JAN.2015 10:52:41



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

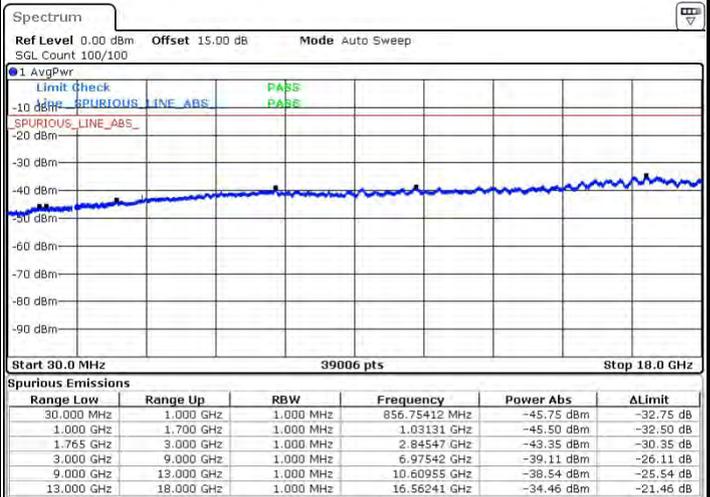
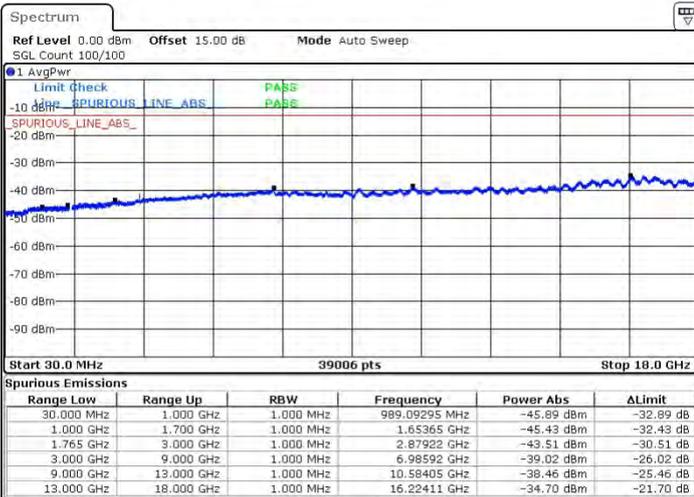


Date: 30.JAN.2015 10:54:47

Date: 30.JAN.2015 10:56:08

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.JAN.2015 11:03:34

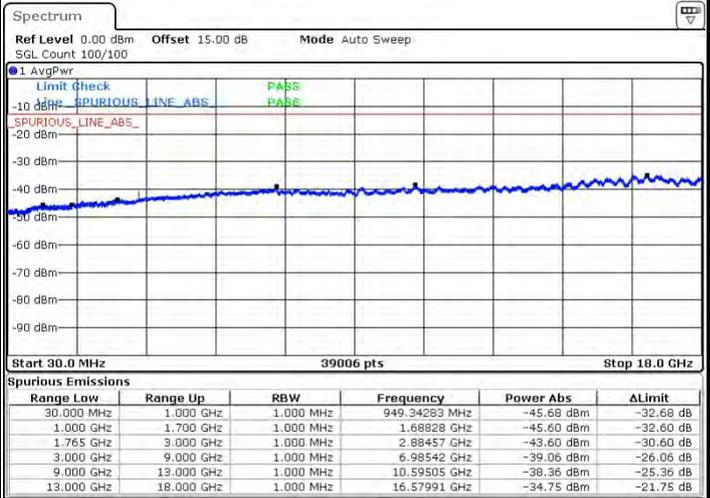
Date: 30.JAN.2015 11:04:55



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

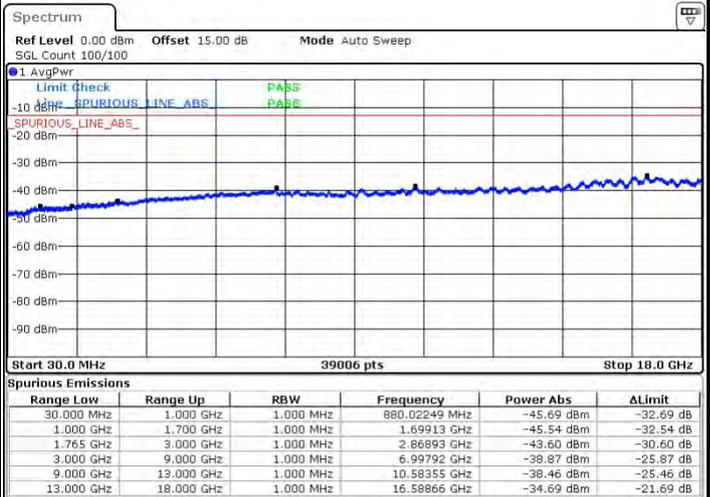
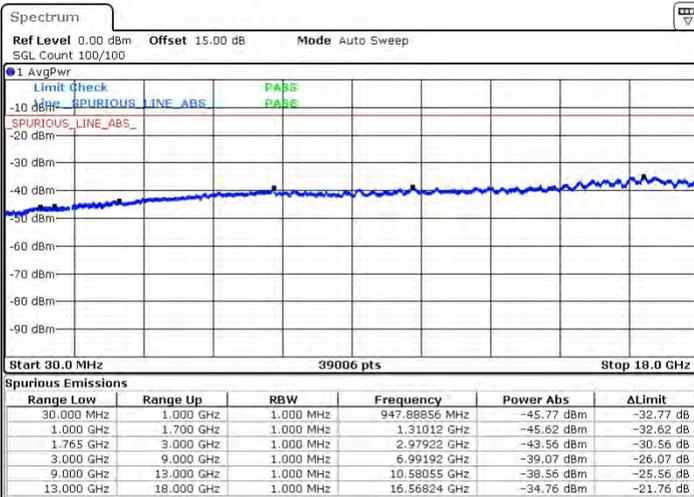


Date: 30.JAN.2015 11:17:48

Date: 30.JAN.2015 11:19:09

Middle Channel / QPSK

Middle Channel / 16QAM



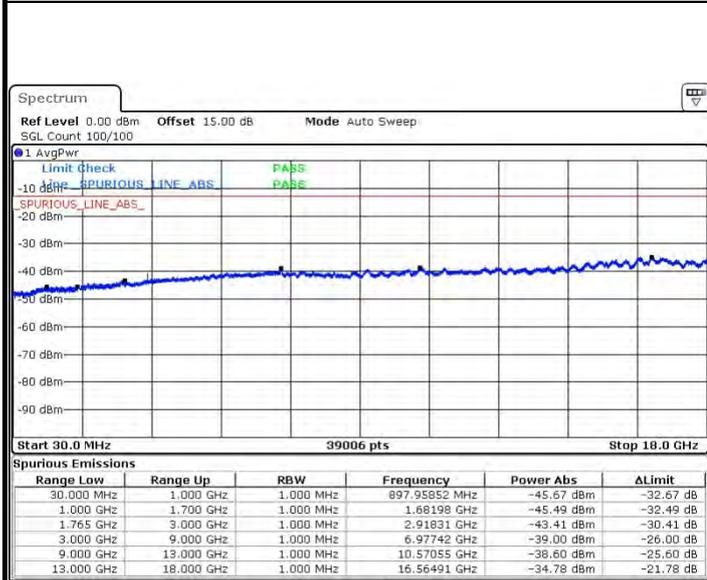
Date: 30.JAN.2015 11:21:15

Date: 30.JAN.2015 11:22:36



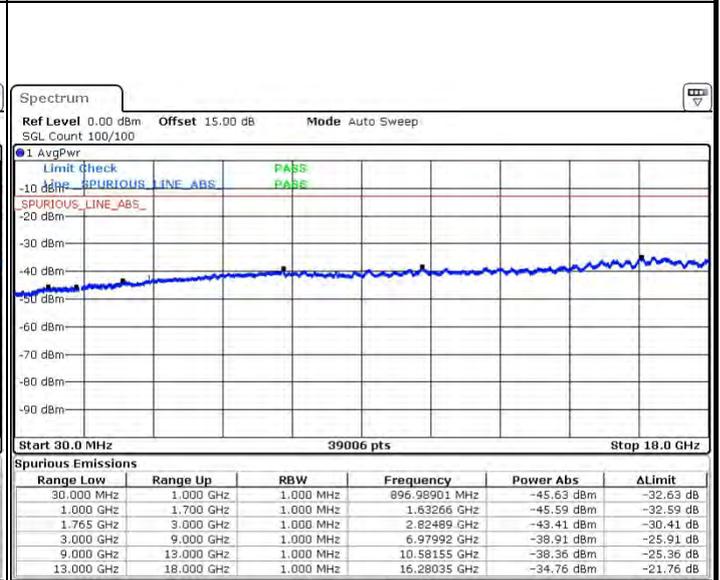
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 30.JAN.2015 11:30:01

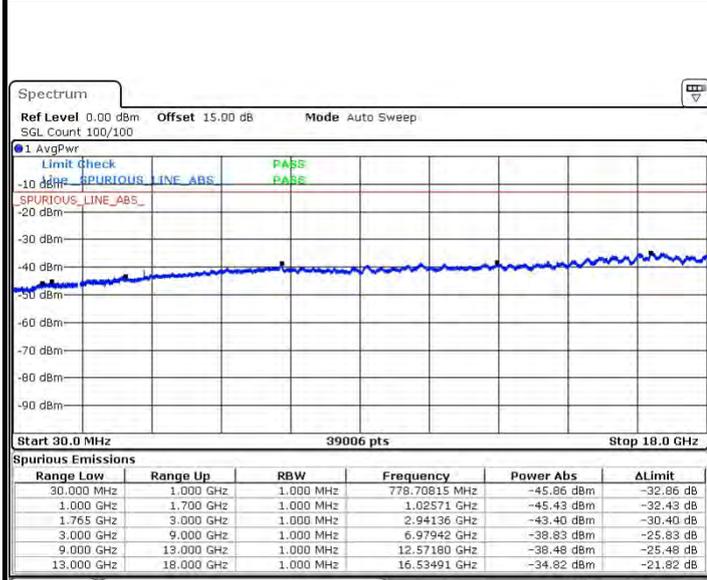
Highest Channel / 16QAM



Date: 30.JAN.2015 11:31:22

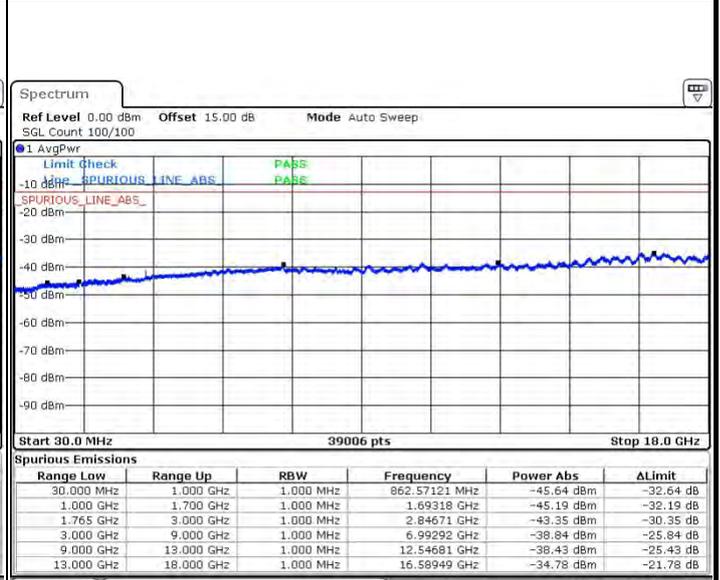
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 30.JAN.2015 11:43:10

Lowest Channel / 16QAM



Date: 30.JAN.2015 11:44:30



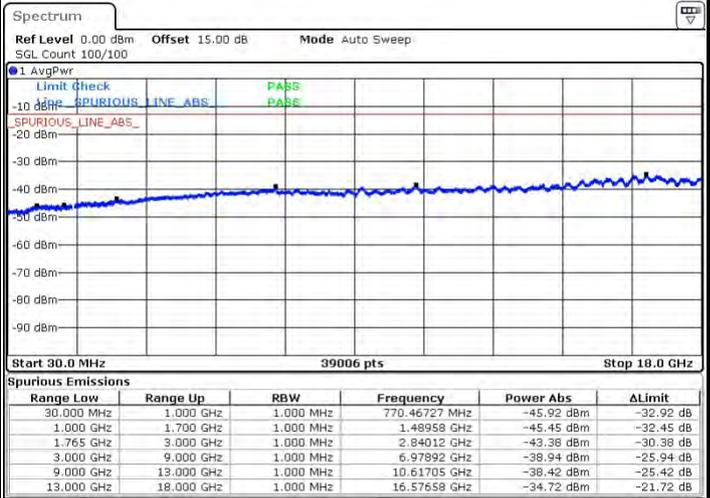
LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



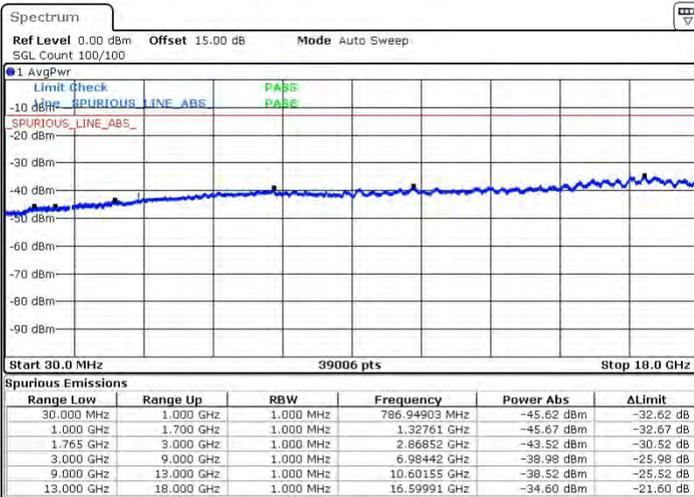
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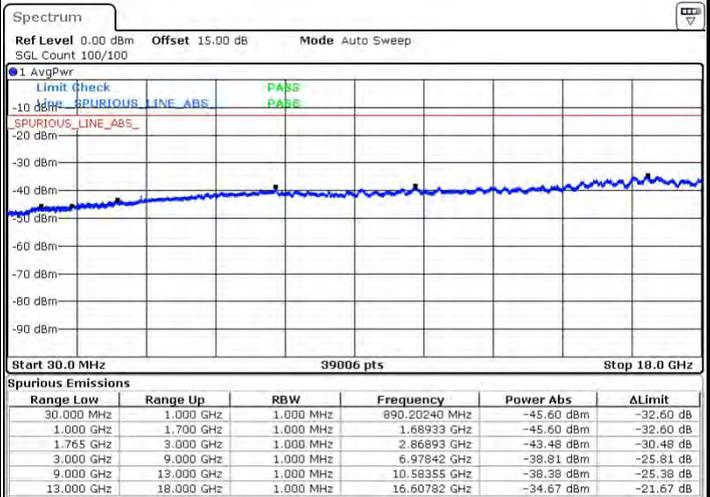
Date: 30.JAN.2015 11:47:57

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.JAN.2015 11:59:21



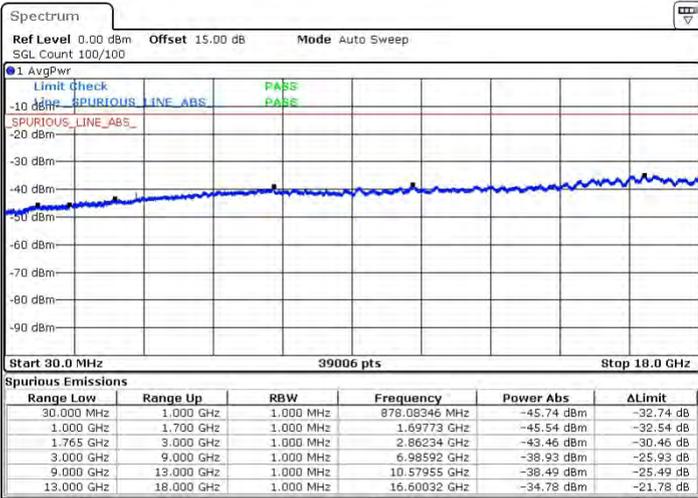
Date: 30.JAN.2015 11:56:42



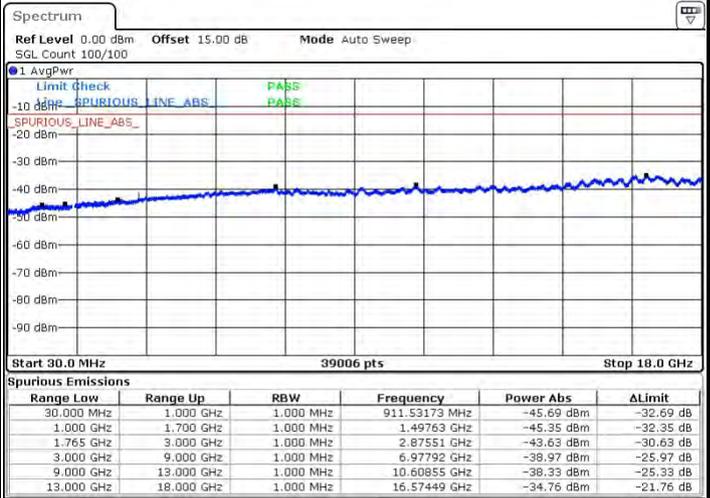
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



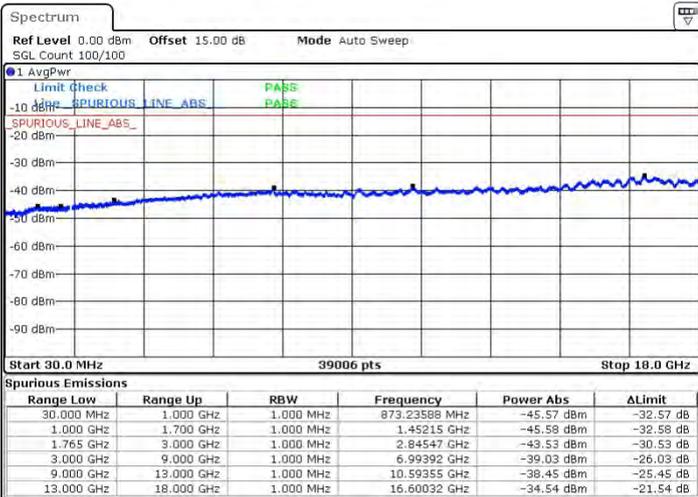
Date: 30.JAN.2015 12:04:53



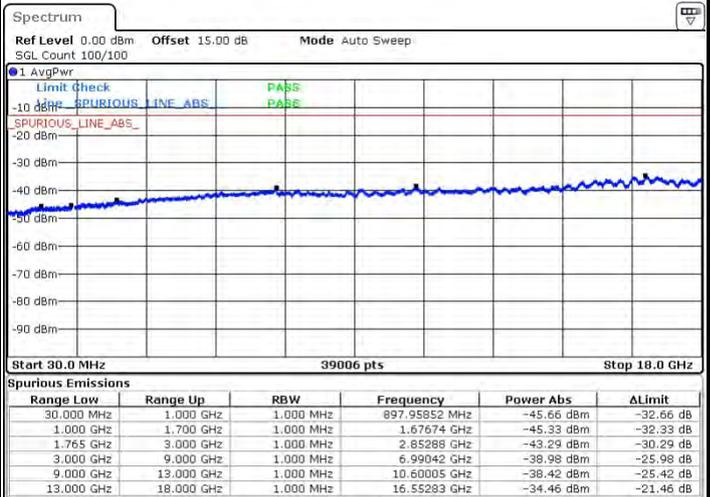
Date: 30.JAN.2015 12:06:14

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 30.JAN.2015 12:08:20

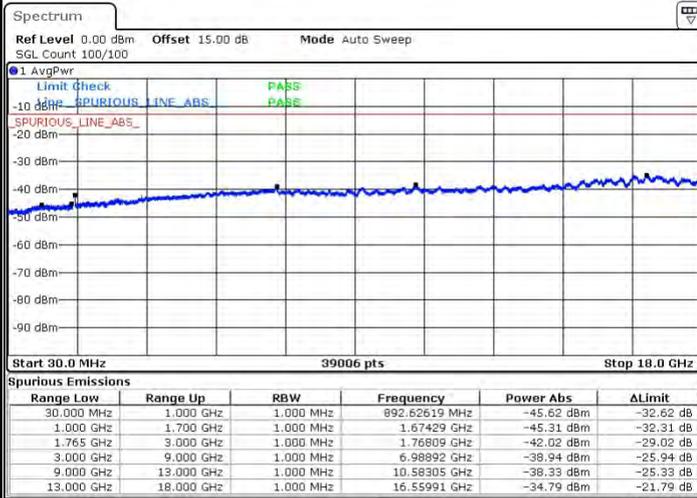


Date: 30.JAN.2015 12:09:40



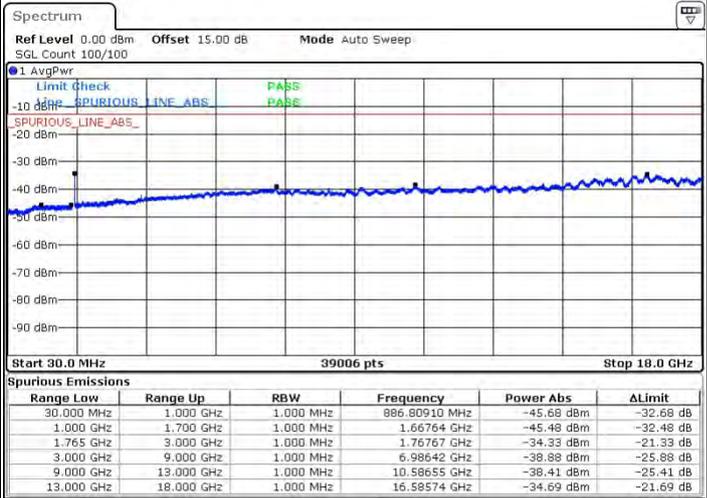
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 30.JAN.2015 12:17:12

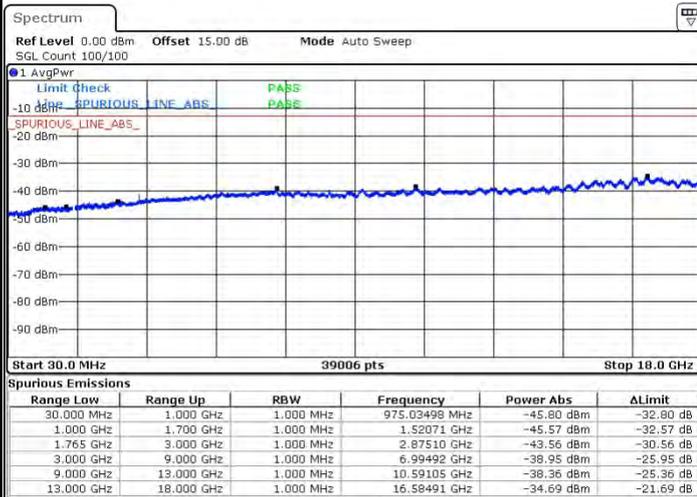
Highest Channel / 16QAM



Date: 30.JAN.2015 12:18:34

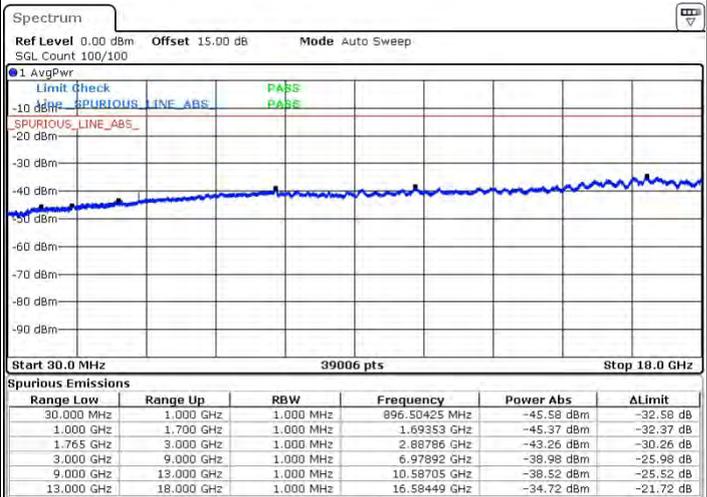
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 30.JAN.2015 13:40:01

Lowest Channel / 16QAM



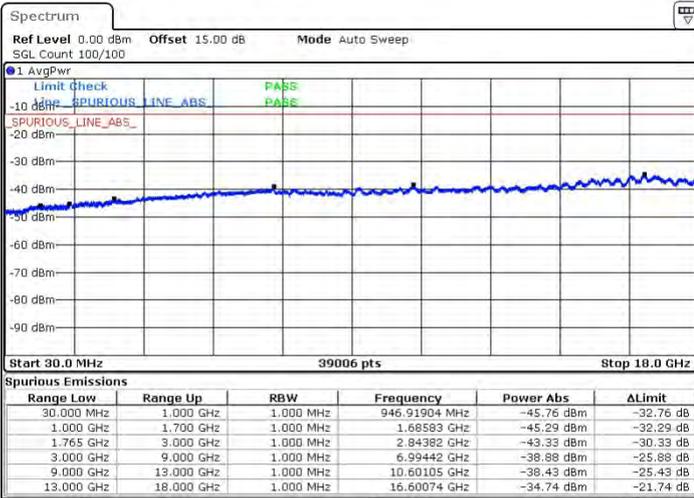
Date: 30.JAN.2015 13:41:21



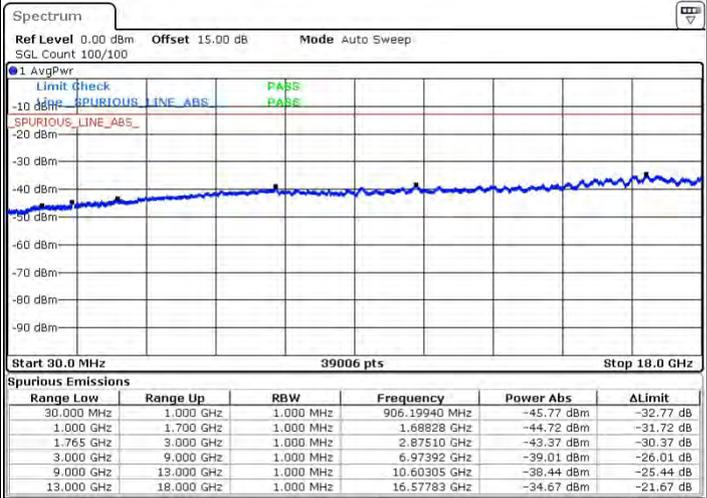
LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



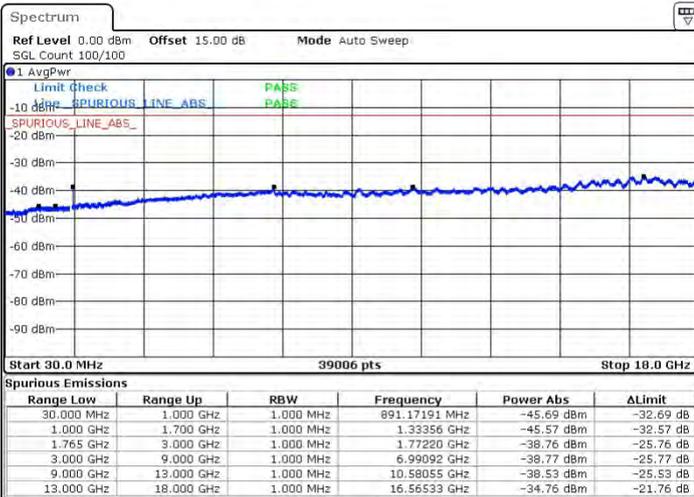
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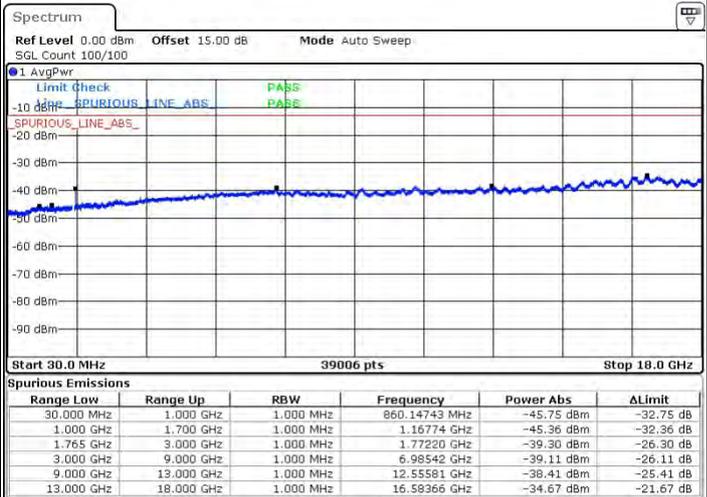
Date: 30.JAN.2015 13:44:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.JAN.2015 13:52:11



Date: 30.JAN.2015 13:53:32



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	0.0016	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	0.0004	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0016	
-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 = 3.8V. ; Battery End Point (BEP) = 3.65V. ; 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 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	20.51	20.48	20.50
5	1	12		20.50	20.46	20.54
5	1	24		20.50	20.73	20.66
5	12	0		19.60	19.65	19.62
5	12	6		19.53	19.76	19.80
5	12	11		19.59	19.76	19.83
5	25	0		19.57	19.67	19.67
5	1	0	16-QAM	19.17	19.31	19.62
5	1	12		19.12	19.38	19.65
5	1	24		19.14	19.41	19.68
5	12	0		18.70	18.79	18.77
5	12	6		18.73	18.80	18.86
5	12	11		18.71	18.69	18.67
5	25	0		18.65	18.68	18.75
10	1	0	QPSK	20.48	20.55	20.40
10	1	24		20.46	20.46	20.53
10	1	49		20.43	20.64	20.65
10	25	0		19.66	19.47	19.55
10	25	12		19.57	19.66	19.70
10	25	24		19.38	19.64	19.66
10	50	0		19.40	19.76	19.67
10	1	0	16-QAM	19.45	19.40	19.27
10	1	24		19.33	19.45	19.53
10	1	49		19.30	19.75	19.62
10	25	0		18.45	18.58	18.69
10	25	12		18.66	18.78	18.67
10	25	24		18.47	18.60	18.72
10	50	0		18.25	18.60	18.60



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	20.52	20.52	20.49
15	1	37		20.51	20.64	20.63
15	1	74		20.36	20.61	20.60
15	36	0		19.59	19.50	19.59
15	36	18		19.47	19.78	19.64
15	36	37		19.48	19.77	19.78
15	75	0		19.58	19.65	19.67
15	1	0	16-QAM	19.91	19.52	19.91
15	1	37		19.69	19.86	19.93
15	1	74		19.75	19.78	19.75
15	36	0		18.74	18.59	18.63
15	36	18		18.56	18.77	18.63
15	36	37		18.44	18.76	18.72
15	75	0		18.44	18.50	18.74
20	1	0	QPSK	20.52	20.54	20.47
20	1	49		20.48	20.65	20.43
20	1	99		20.54	20.77	20.68
20	50	0		19.48	19.56	19.53
20	50	24		19.50	19.67	19.62
20	50	49		19.46	19.54	19.51
20	100	0		19.49	19.68	19.60
20	1	0	16-QAM	19.47	19.76	19.91
20	1	49		19.32	19.90	19.92
20	1	99		19.95	19.91	19.93
20	50	0		18.61	18.59	18.93
20	50	24		18.43	18.79	18.74
20	50	49		18.57	18.59	18.76
20	100	0		18.57	18.59	18.70



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	4.58	4.96	5.83	6.14	PASS
Middle CH	5.3	5.22	6.03	6.14	
Highest CH	5.45	5.07	6.09	6.06	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 30, JAN, 2015 10:23:44

Lowest Channel / Full RB



Date: 30, JAN, 2015 10:23:59

Middle Channel / 1RB



Date: 30, JAN, 2015 10:24:11

Middle Channel / Full RB



Date: 30, JAN, 2015 10:24:29

Highest Channel / 1RB



Date: 30, JAN, 2015 10:24:42

Highest Channel / Full RB



Date: 30, JAN, 2015 10:24:56



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 30, JAN, 2015 10:22:06

Lowest Channel / Full RB



Date: 30, JAN, 2015 10:22:30

Middle Channel / 1RB



Date: 30, JAN, 2015 10:22:41

Middle Channel / Full RB



Date: 30, JAN, 2015 10:22:55

Highest Channel / 1RB



Date: 30, JAN, 2015 10:23:12

Highest Channel / Full RB



Date: 30, JAN, 2015 10:23:32



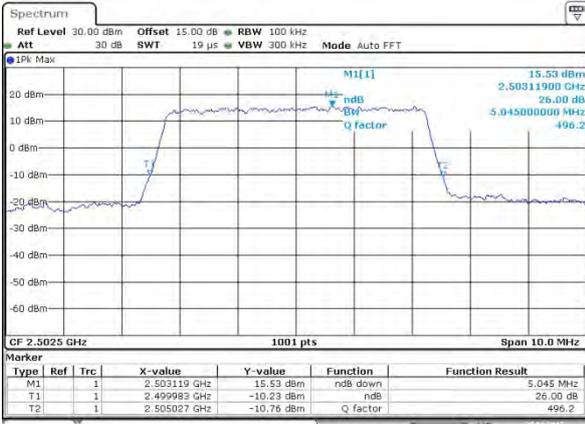
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.05	5.04	9.99	9.95	14.63	14.63	20.42	20.30
Middle CH	-	-	-	-	5.04	5.04	9.95	9.99	14.60	14.66	20.22	20.46
Highest CH	-	-	-	-	5.02	5.03	9.97	10.01	14.63	14.63	20.26	20.26



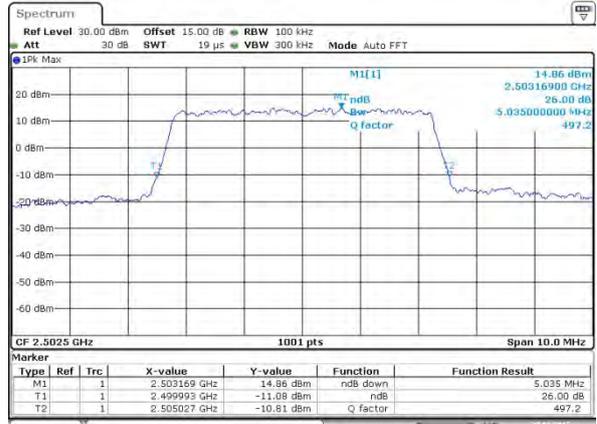
LTE Band 7

Lowest Channel / 5MHz / QPSK



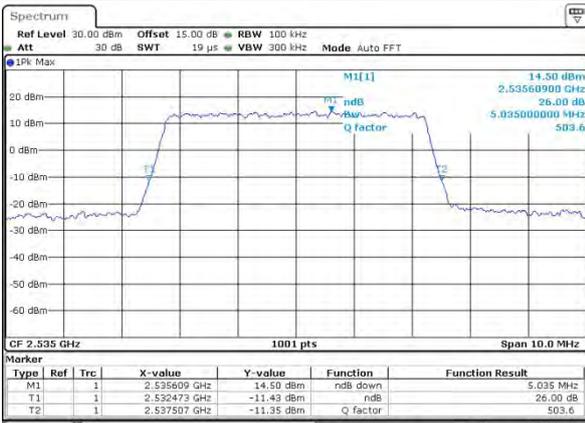
Date: 16_JAN_2015 09:49:44

Lowest Channel / 5MHz / 16QAM



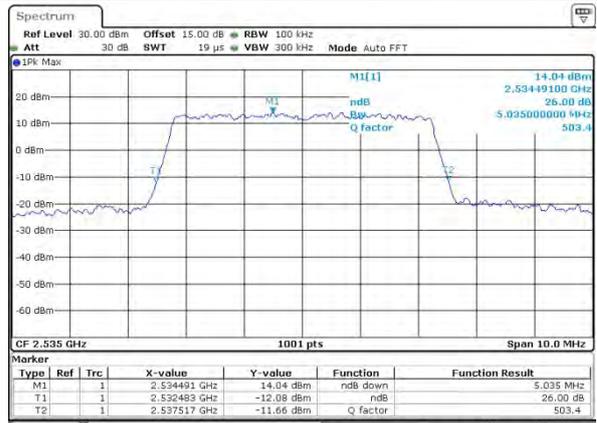
Date: 16_JAN_2015 09:49:56

Middle Channel / 5MHz / QPSK



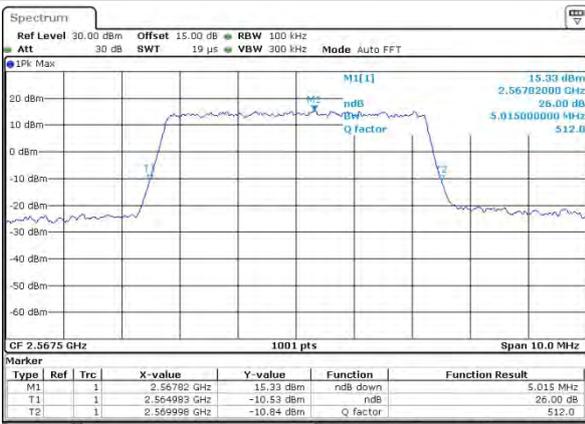
Date: 16_JAN_2015 09:59:22

Middle Channel / 5MHz / 16QAM



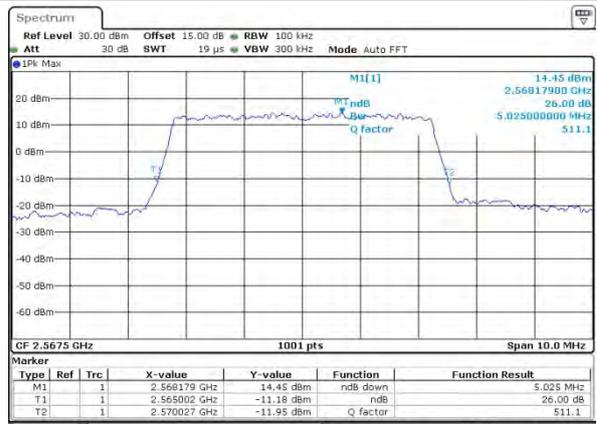
Date: 16_JAN_2015 09:59:44

Highest Channel / 5MHz / QPSK



Date: 16_JAN_2015 09:01:59

Highest Channel / 5MHz / 16QAM

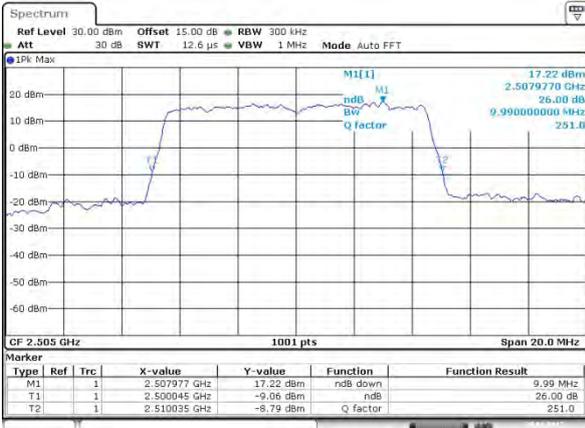


Date: 16_JAN_2015 09:02:11



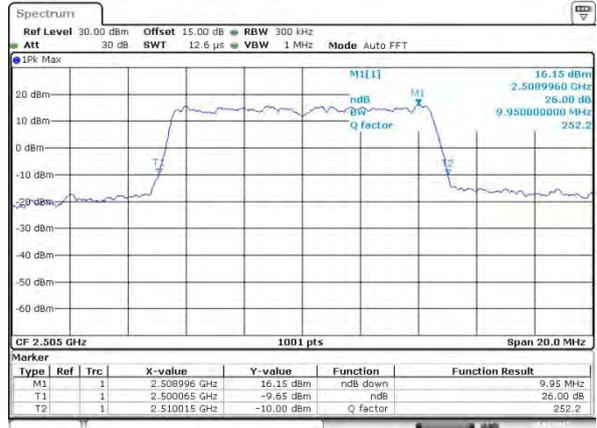
LTE Band 7

Lowest Channel / 10MHz / QPSK



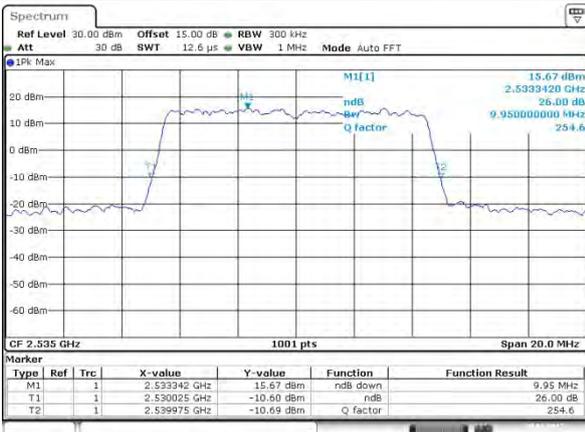
Date: 16, JAN, 2015 09:10:47

Lowest Channel / 10MHz / 16QAM



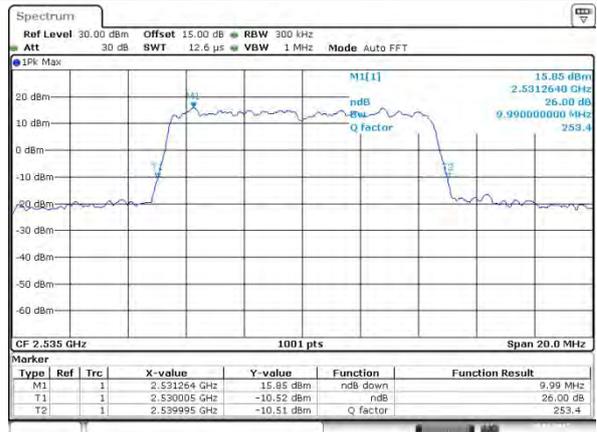
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Middle Channel / 10MHz / QPSK



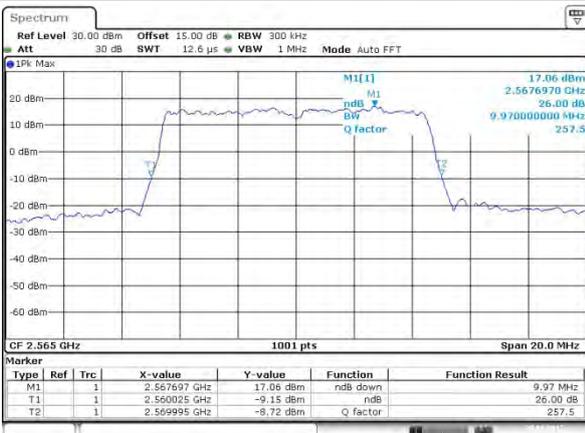
Date: 16, JAN, 2015 09:19:33

Middle Channel / 10MHz / 16QAM



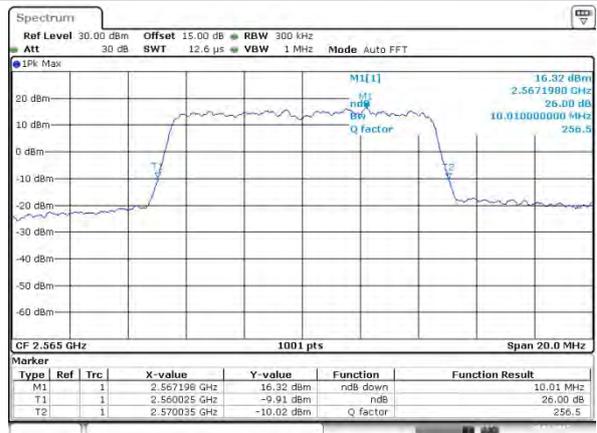
Date: 16, JAN, 2015 09:19:47

Highest Channel / 10MHz / QPSK



Date: 16, JAN, 2015 09:23:02

Highest Channel / 10MHz / 16QAM

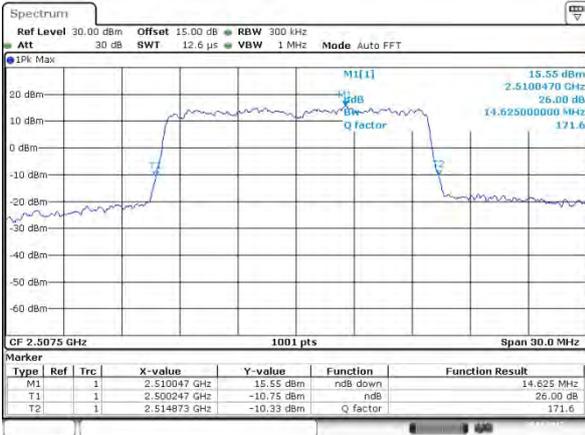


Date: 16, JAN, 2015 09:23:14



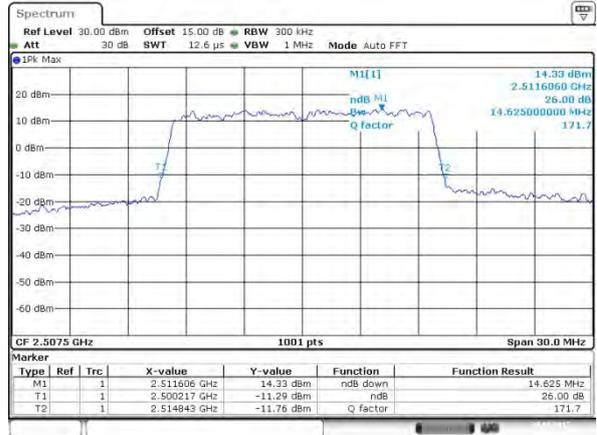
LTE Band 7

Lowest Channel / 15MHz / QPSK



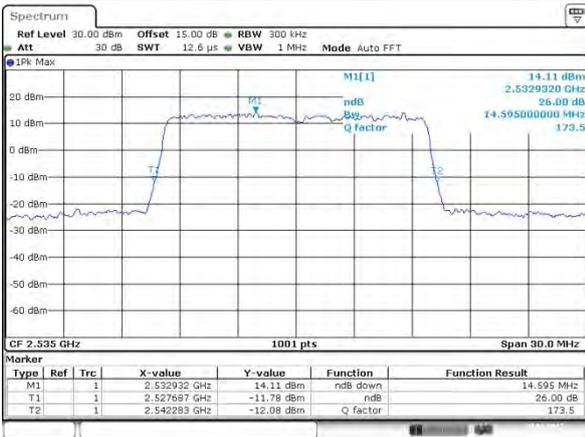
Date: 16.JAN.2015 09:31:49

Lowest Channel / 15MHz / 16QAM



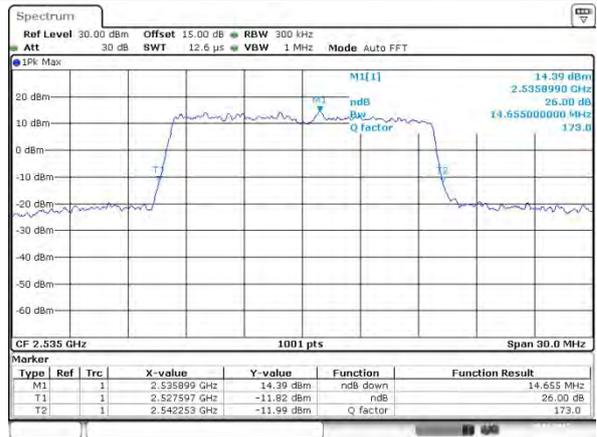
Date: 16.JAN.2015 09:33:01

Middle Channel / 15MHz / QPSK



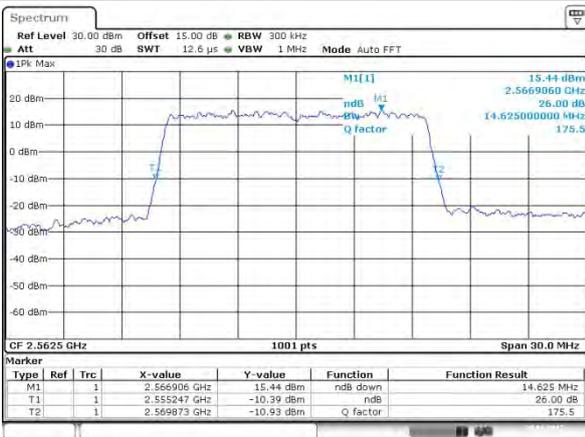
Date: 16.JAN.2015 09:40:57

Middle Channel / 15MHz / 16QAM



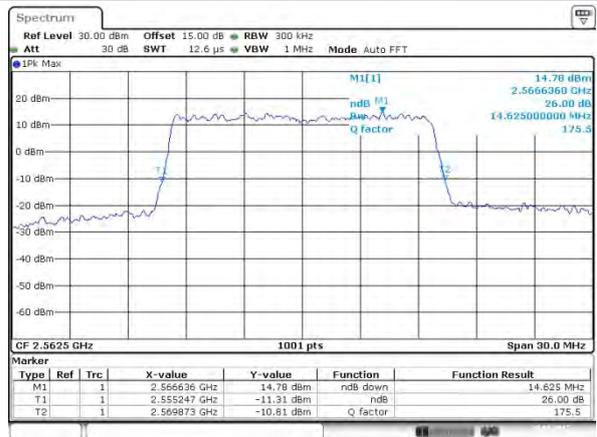
Date: 16.JAN.2015 09:40:49

Highest Channel / 15MHz / QPSK



Date: 16.JAN.2015 09:44:04

Highest Channel / 15MHz / 16QAM

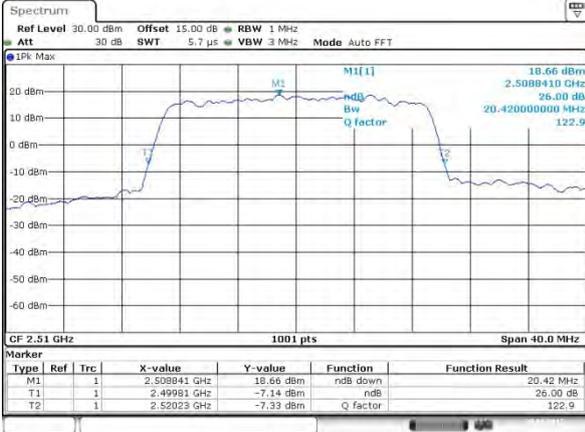


Date: 16.JAN.2015 09:44:16



LTE Band 7

Lowest Channel / 20MHz / QPSK



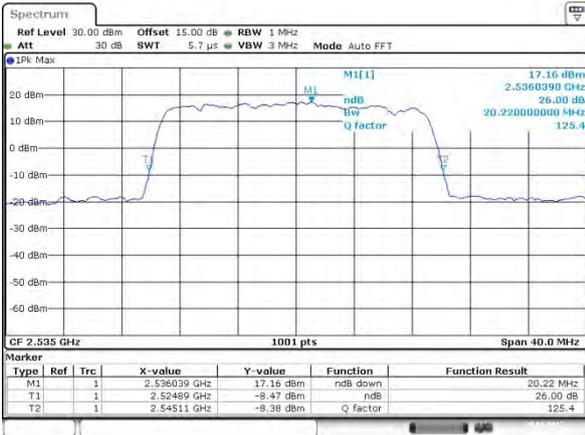
Date: 16, JAN, 2015 09:52:10

Lowest Channel / 20MHz / 16QAM



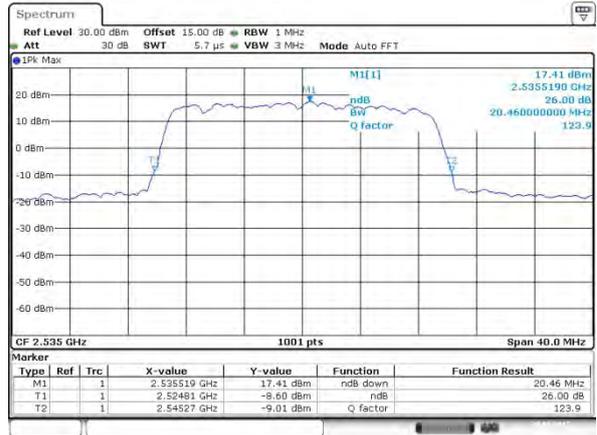
Date: 16, JAN, 2015 09:53:02

Middle Channel / 20MHz / QPSK



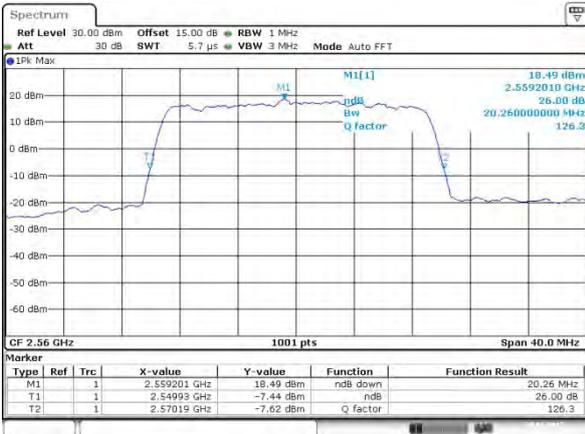
Date: 16, JAN, 2015 10:01:37

Middle Channel / 20MHz / 16QAM



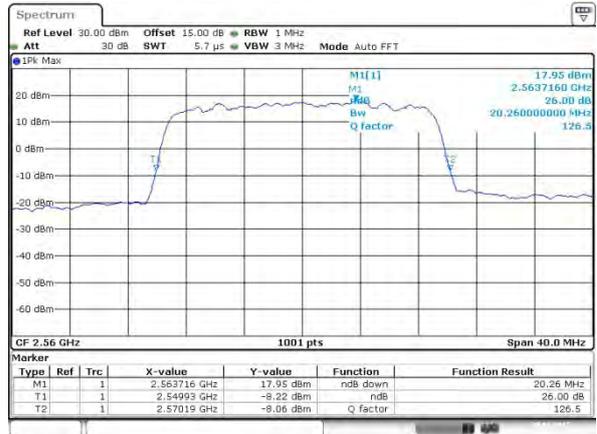
Date: 16, JAN, 2015 10:01:49

Highest Channel / 20MHz / QPSK



Date: 16, JAN, 2015 10:05:04

Highest Channel / 20MHz / 16QAM



Date: 16, JAN, 2015 10:05:18



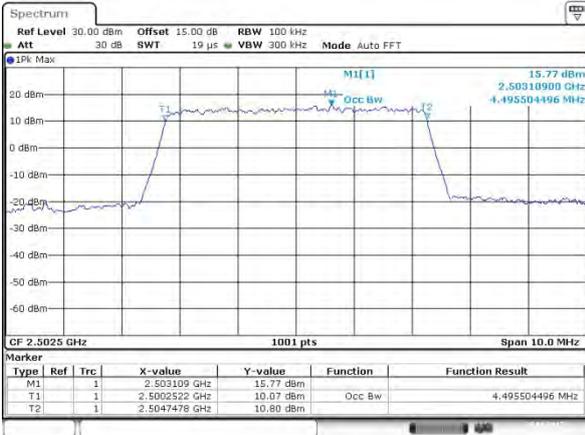
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	9.07	9.03	13.43	13.46	18.46	18.34
Middle CH	-	-	-	-	4.51	4.50	9.09	9.01	13.49	13.43	18.42	18.42
Highest CH	-	-	-	-	4.51	4.50	9.05	9.03	13.43	13.46	18.26	18.34



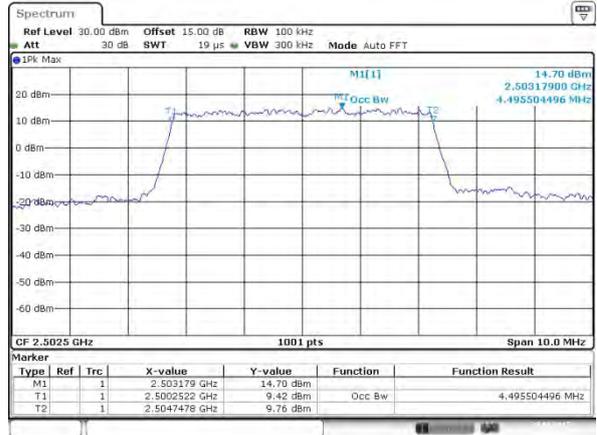
LTE Band 7

Lowest Channel / 5MHz / QPSK



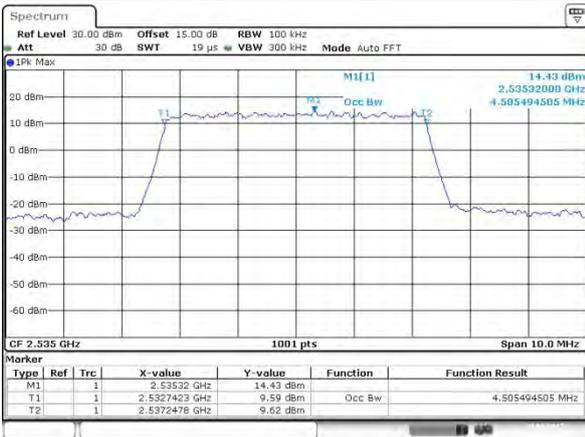
Date: 16_JAN.2015 09:49:24

Lowest Channel / 5MHz / 16QAM



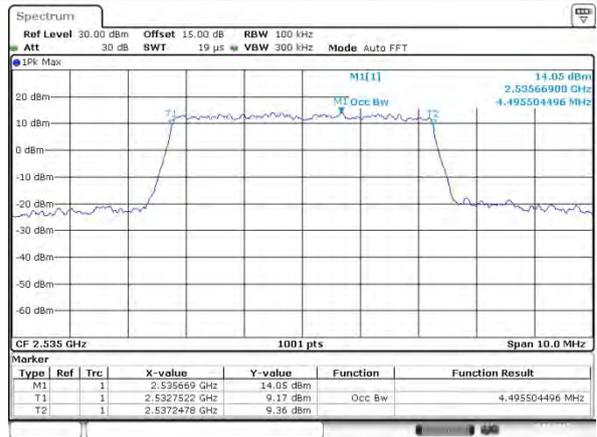
Date: 16_JAN.2015 09:49:32

Middle Channel / 5MHz / QPSK



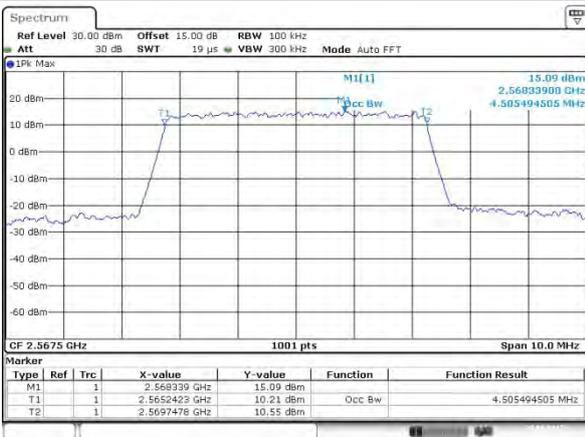
Date: 16_JAN.2015 09:59:09

Middle Channel / 5MHz / 16QAM



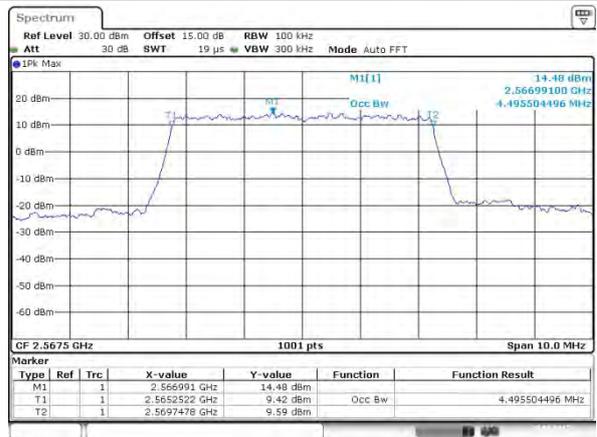
Date: 16_JAN.2015 09:59:19

Highest Channel / 5MHz / QPSK



Date: 16_JAN.2015 09:01:39

Highest Channel / 5MHz / 16QAM

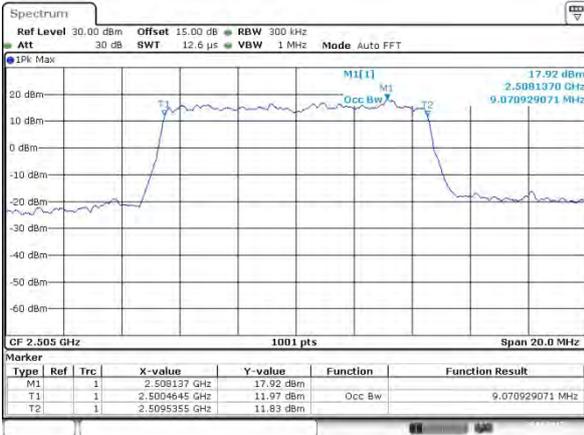


Date: 16_JAN.2015 09:01:49



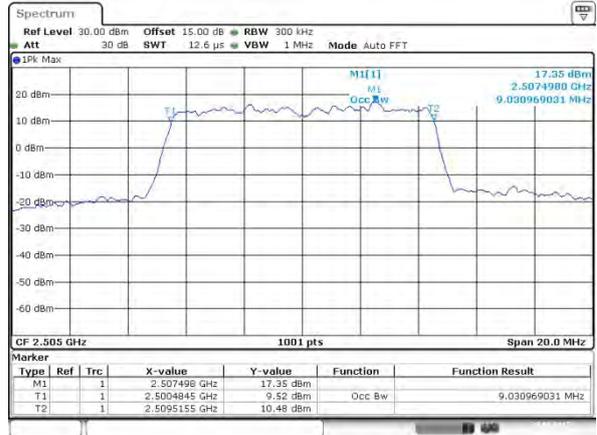
LTE Band 7

Lowest Channel / 10MHz / QPSK



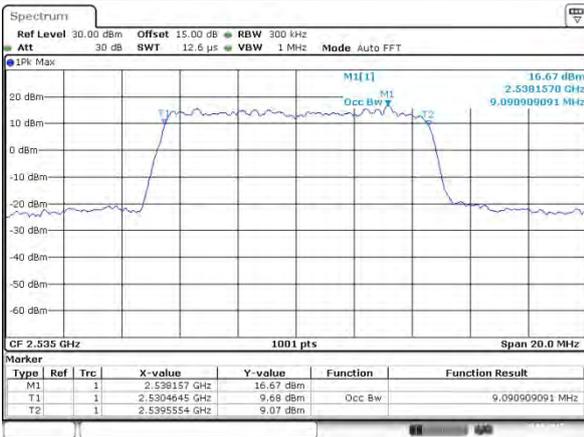
Date: 16.JAN.2015 09:10:24

Lowest Channel / 10MHz / 16QAM



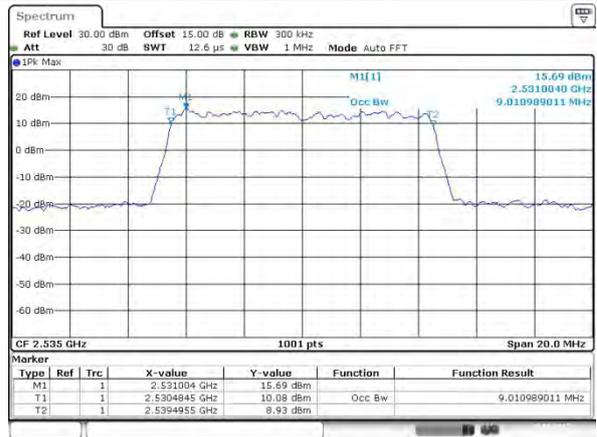
Date: 16.JAN.2015 09:10:25

Middle Channel / 10MHz / QPSK



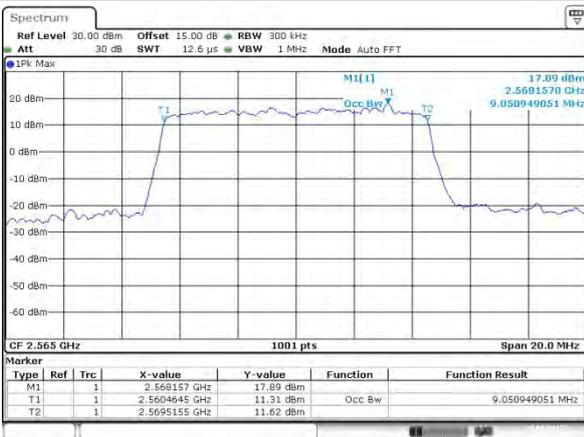
Date: 16.JAN.2015 09:19:12

Middle Channel / 10MHz / 16QAM



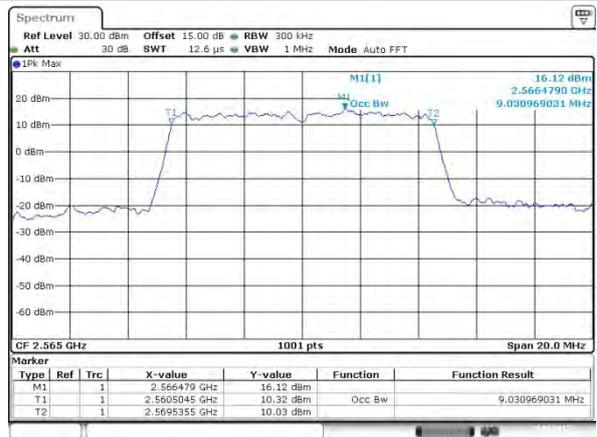
Date: 16.JAN.2015 09:19:13

Highest Channel / 10MHz / QPSK



Date: 16.JAN.2015 09:22:40

Highest Channel / 10MHz / 16QAM

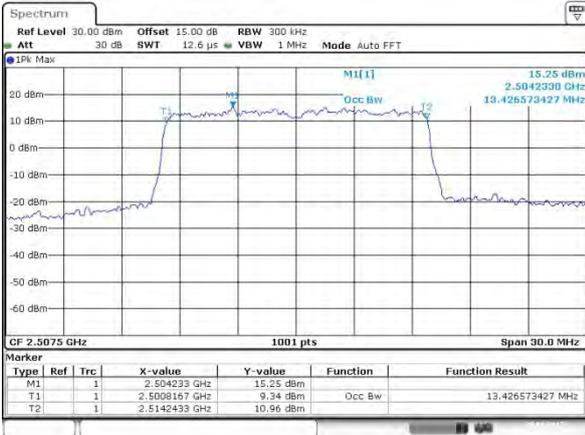


Date: 16.JAN.2015 09:22:50



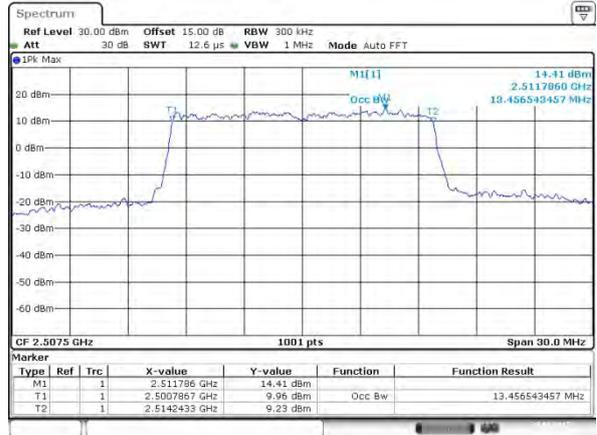
LTE Band 7

Lowest Channel / 15MHz / QPSK



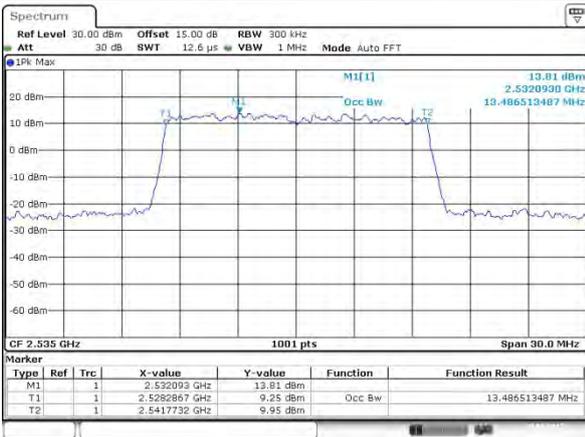
Date: 10.JAN.2015 09:51:26

Lowest Channel / 15MHz / 16QAM



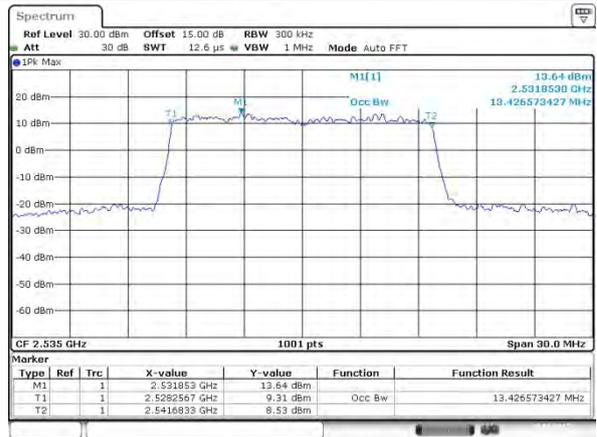
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Middle Channel / 15MHz / QPSK



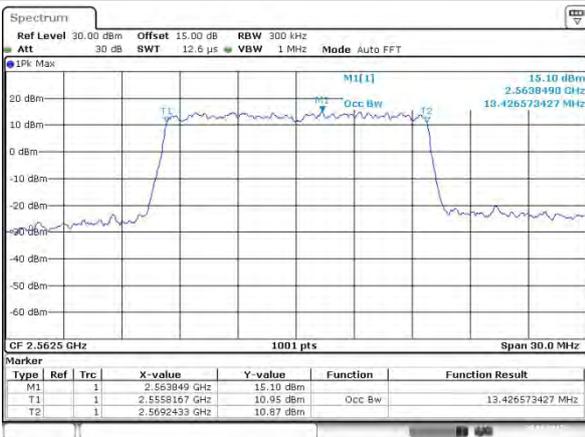
Date: 10.JAN.2015 09:40:14

Middle Channel / 15MHz / 16QAM



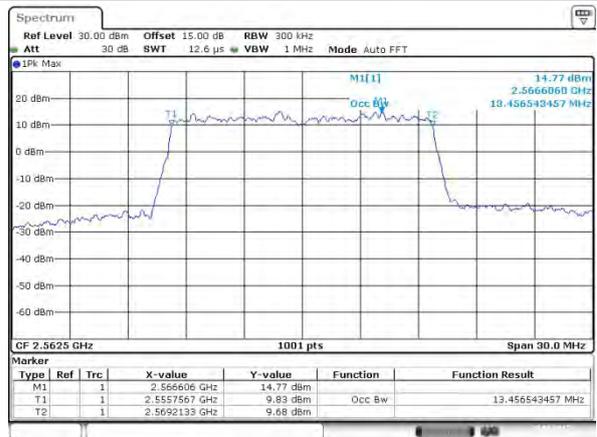
Date: 10.JAN.2015 09:40:24

Highest Channel / 15MHz / QPSK



Date: 10.JAN.2015 09:43:41

Highest Channel / 15MHz / 16QAM

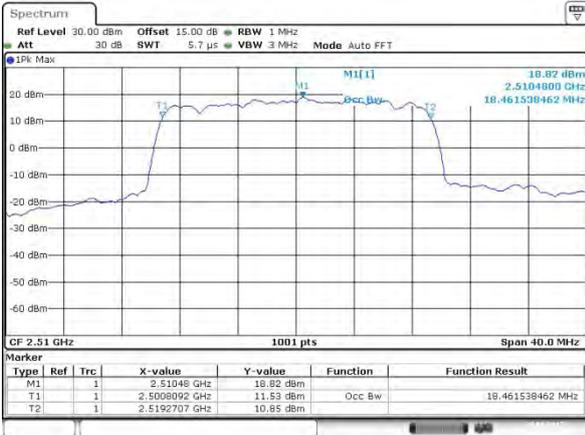


Date: 10.JAN.2015 09:43:52



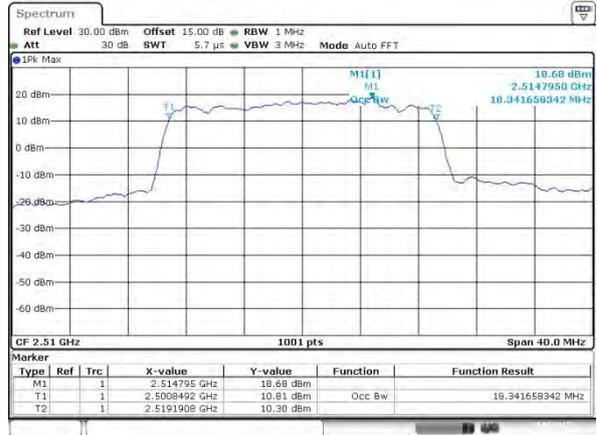
LTE Band 7

Lowest Channel / 20MHz / QPSK



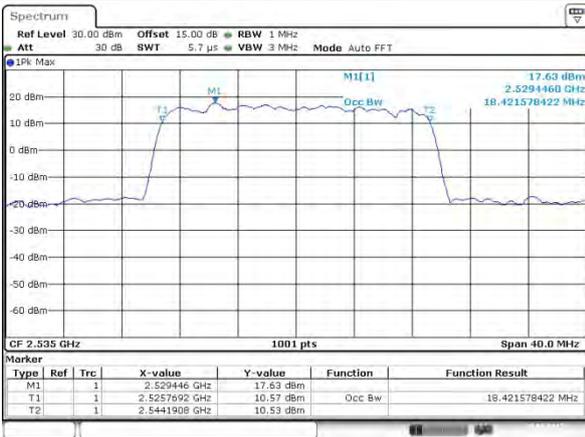
Date: 16.JAN.2015 09:52:28

Lowest Channel / 20MHz / 16QAM



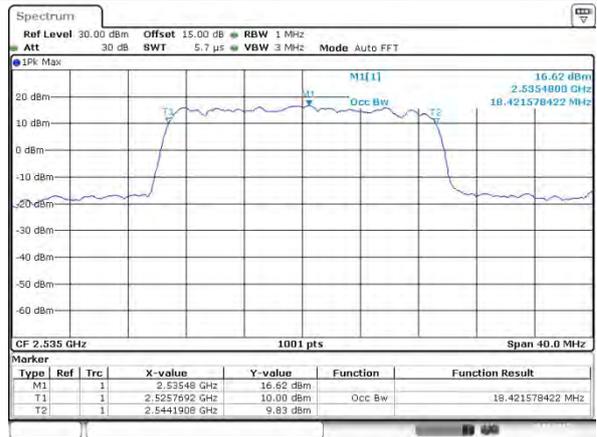
Date: 16.JAN.2015 09:52:38

Middle Channel / 20MHz / QPSK



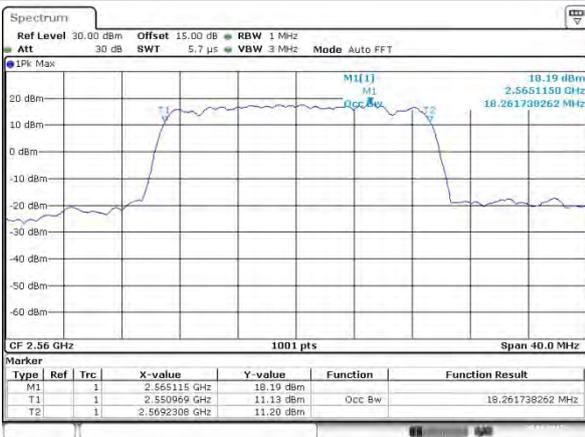
Date: 16.JAN.2015 10:01:19

Middle Channel / 20MHz / 16QAM



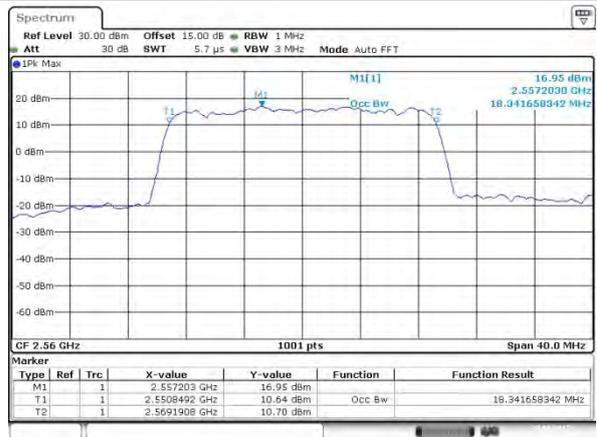
Date: 16.JAN.2015 10:01:29

Highest Channel / 20MHz / QPSK



Date: 16.JAN.2015 10:04:42

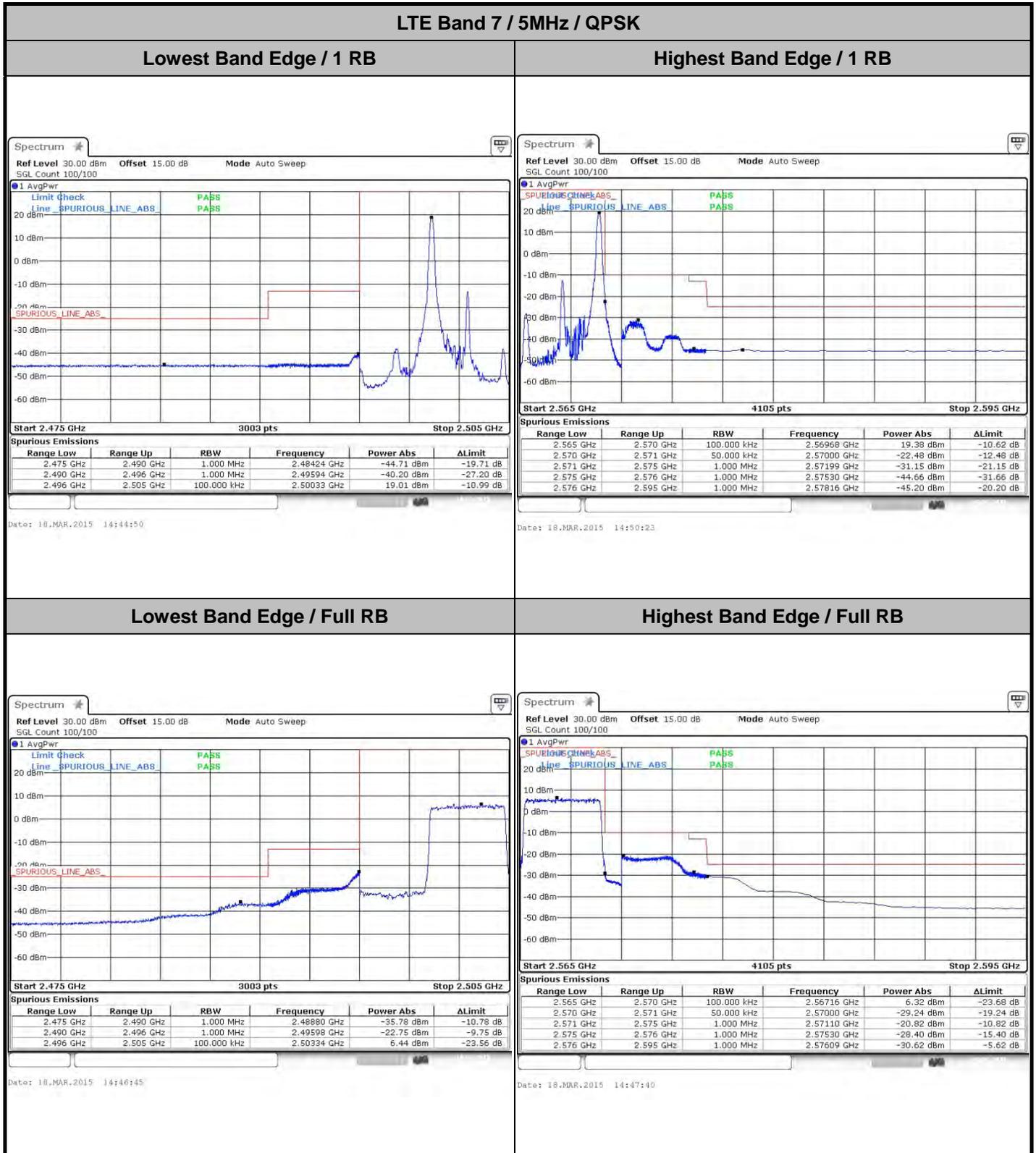
Highest Channel / 20MHz / 16QAM



Date: 16.JAN.2015 10:04:52



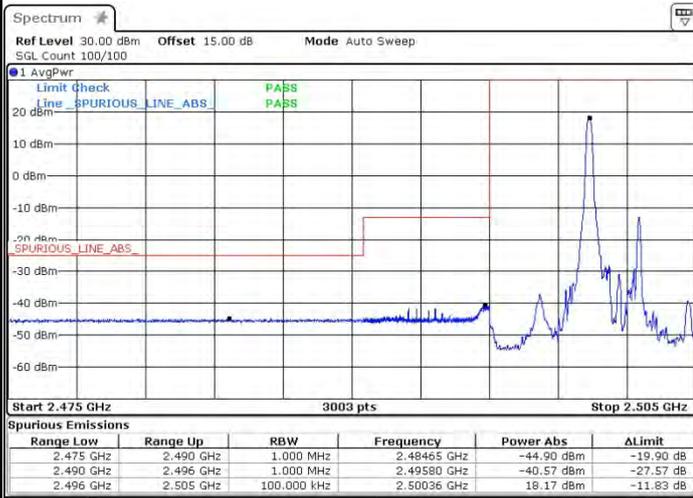
Conducted Band Edge





LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 18.MAR.2015 14:45:25

Highest Band Edge / 1 RB



Date: 18.MAR.2015 14:49:40

Lowest Band Edge / Full RB



Date: 18.MAR.2015 14:46:14

Highest Band Edge / Full RB

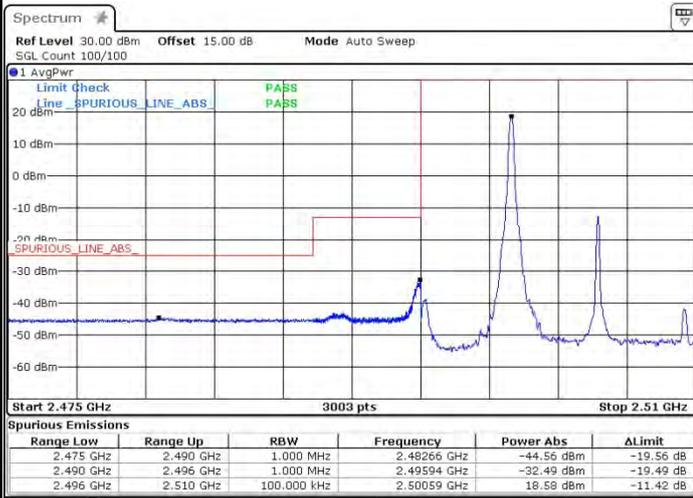


Date: 18.MAR.2015 14:49:01

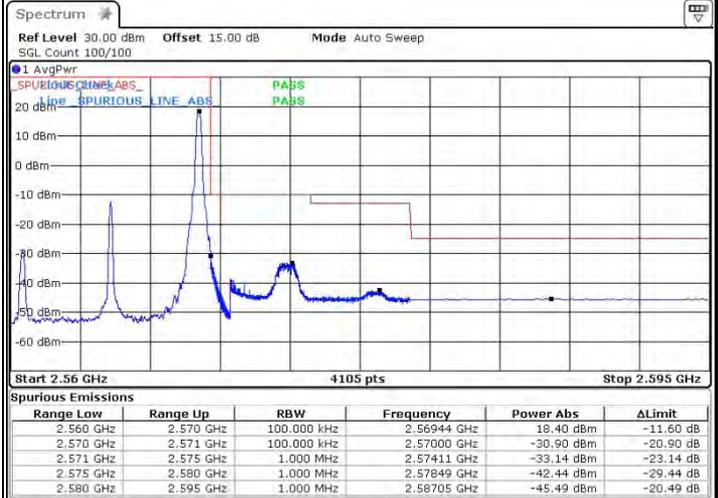


LTE Band 7 / 10MHz / QPSK

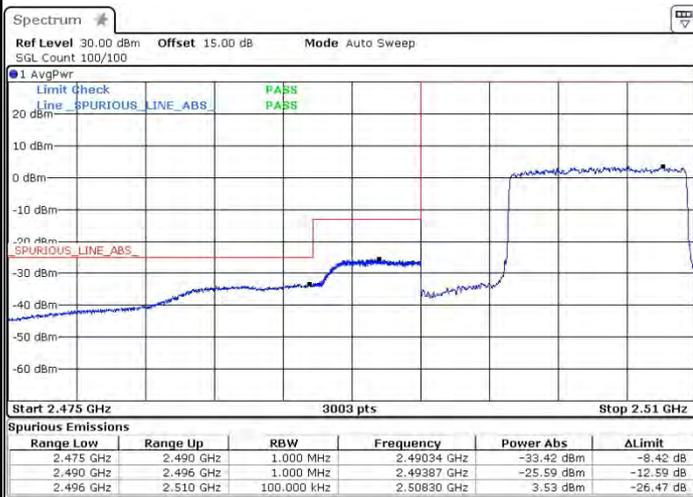
Lowest Band Edge / 1 RB



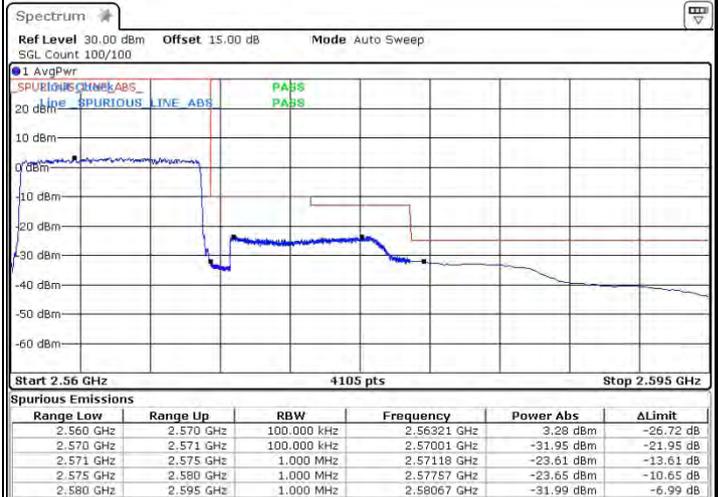
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



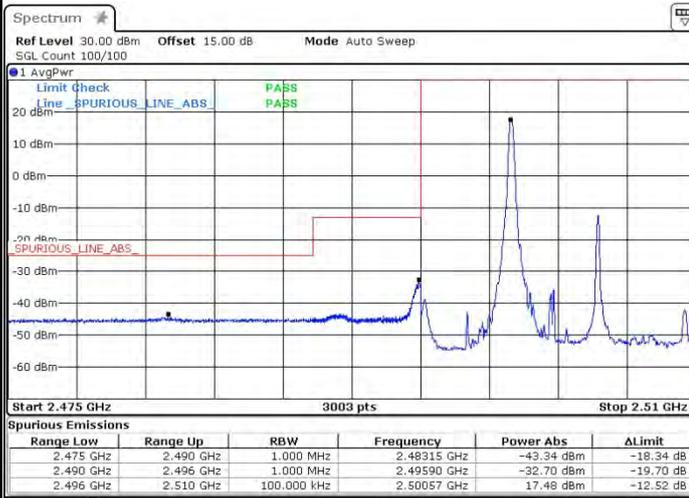
Highest Band Edge / Full RB





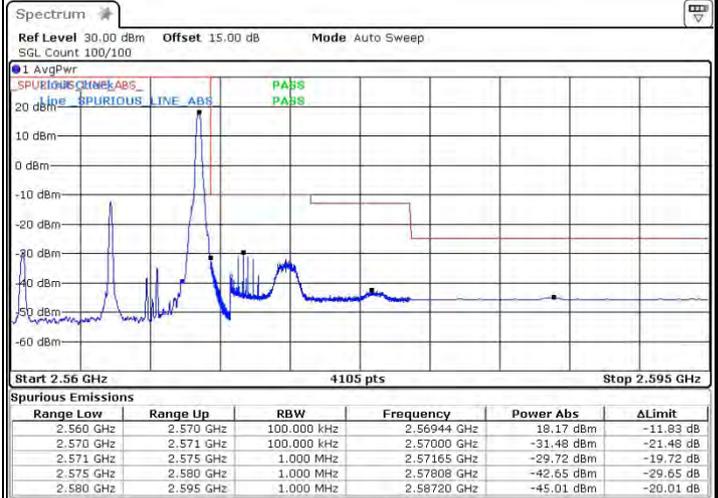
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 18.MAR.2015 14:53:54

Highest Band Edge / 1 RB



Date: 18.MAR.2015 14:58:49

Lowest Band Edge / Full RB



Date: 18.MAR.2015 14:56:18

Highest Band Edge / Full RB



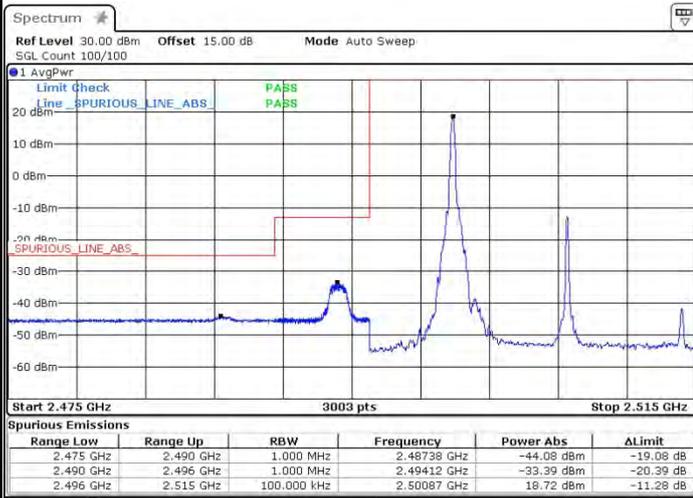
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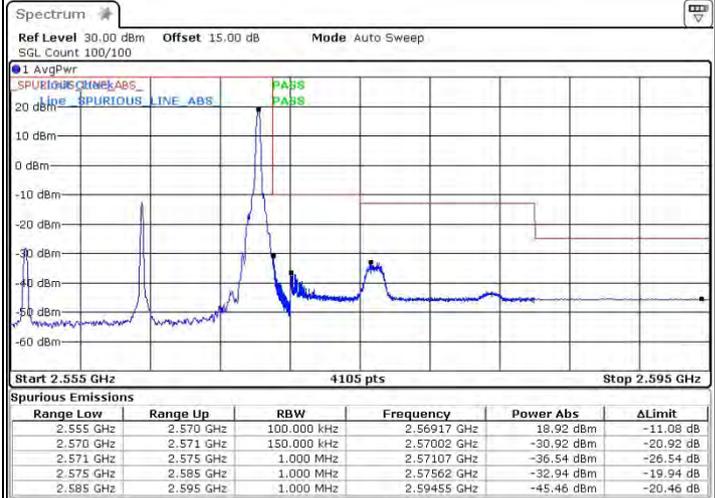
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



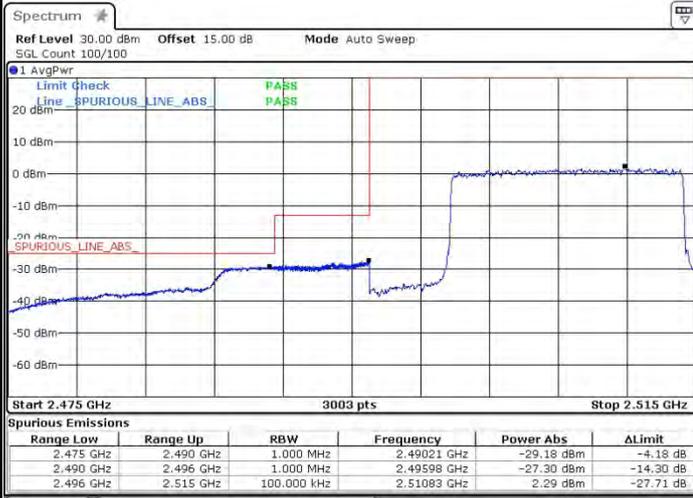
Date: 18.MAR.2015 15:05:50



Date: 18.MAR.2015 15:00:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.MAR.2015 15:01:01

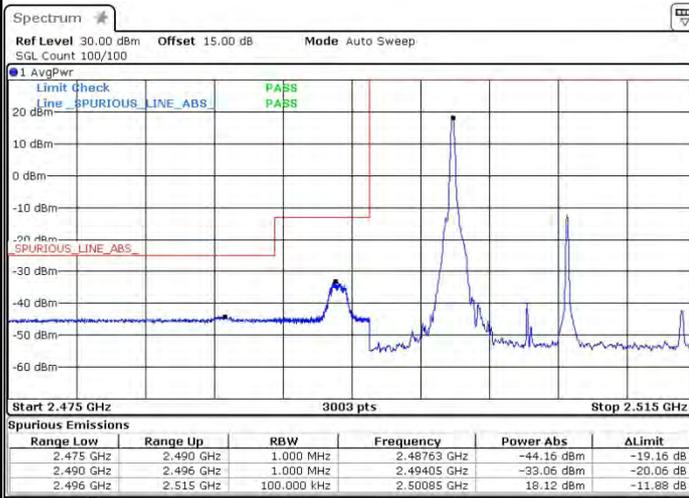


Date: 18.MAR.2015 15:03:08



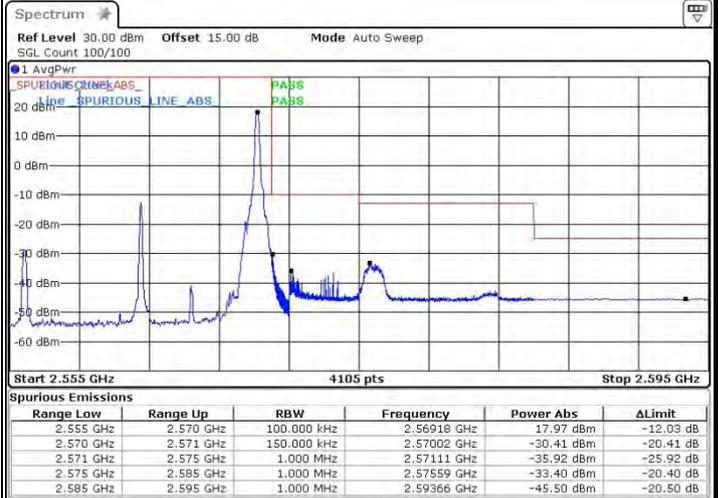
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 18.MAR.2015 15:05:06

Highest Band Edge / 1 RB



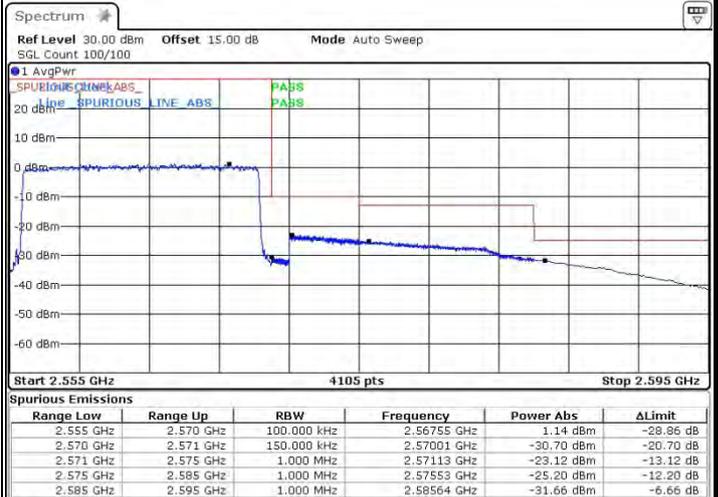
Date: 18.MAR.2015 15:01:33

Lowest Band Edge / Full RB



Date: 18.MAR.2015 15:04:28

Highest Band Edge / Full RB



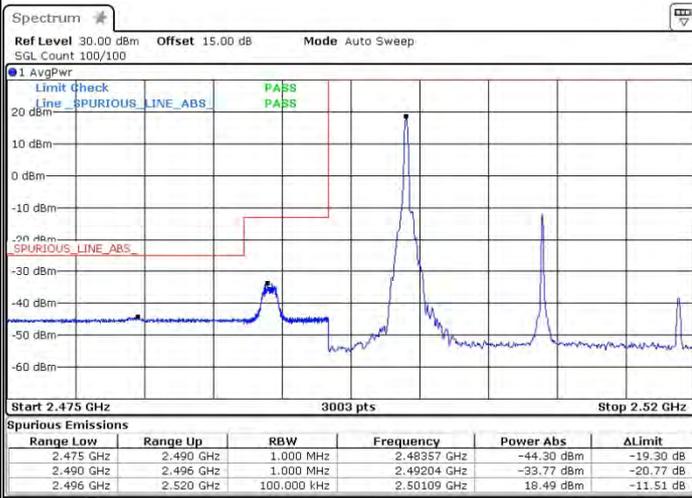
Date: 18.MAR.2015 15:02:35



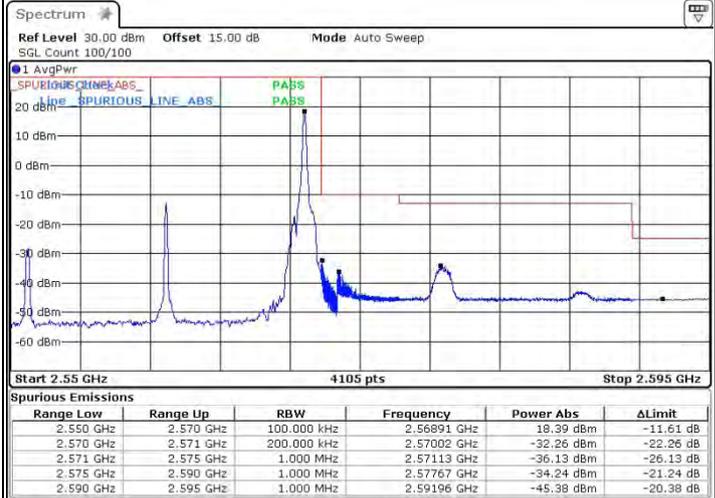
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



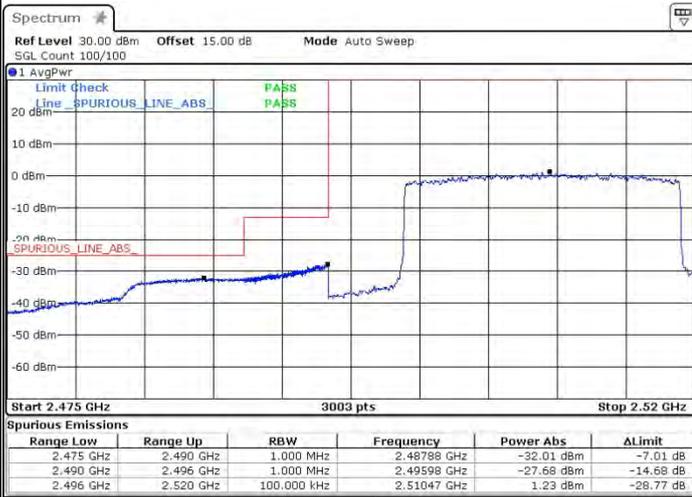
Date: 18.MAR.2015 15:06:53



Date: 18.MAR.2015 15:10:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.MAR.2015 15:08:45

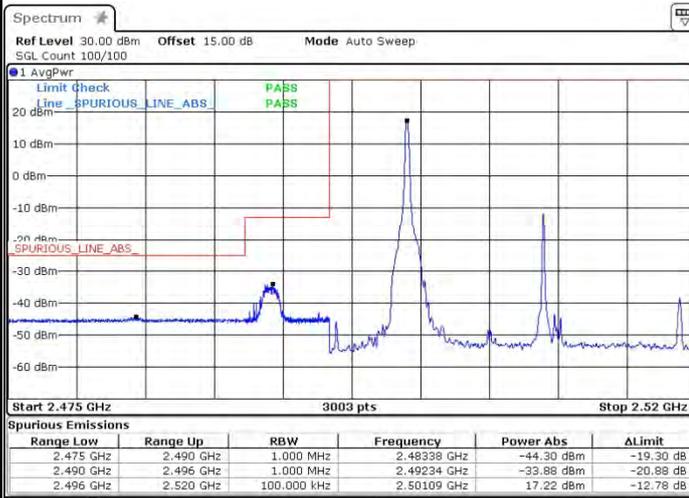


Date: 18.MAR.2015 15:09:17



LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



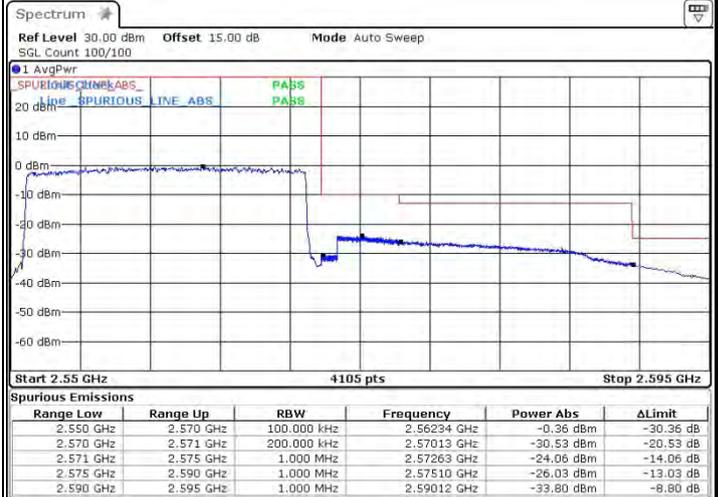
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

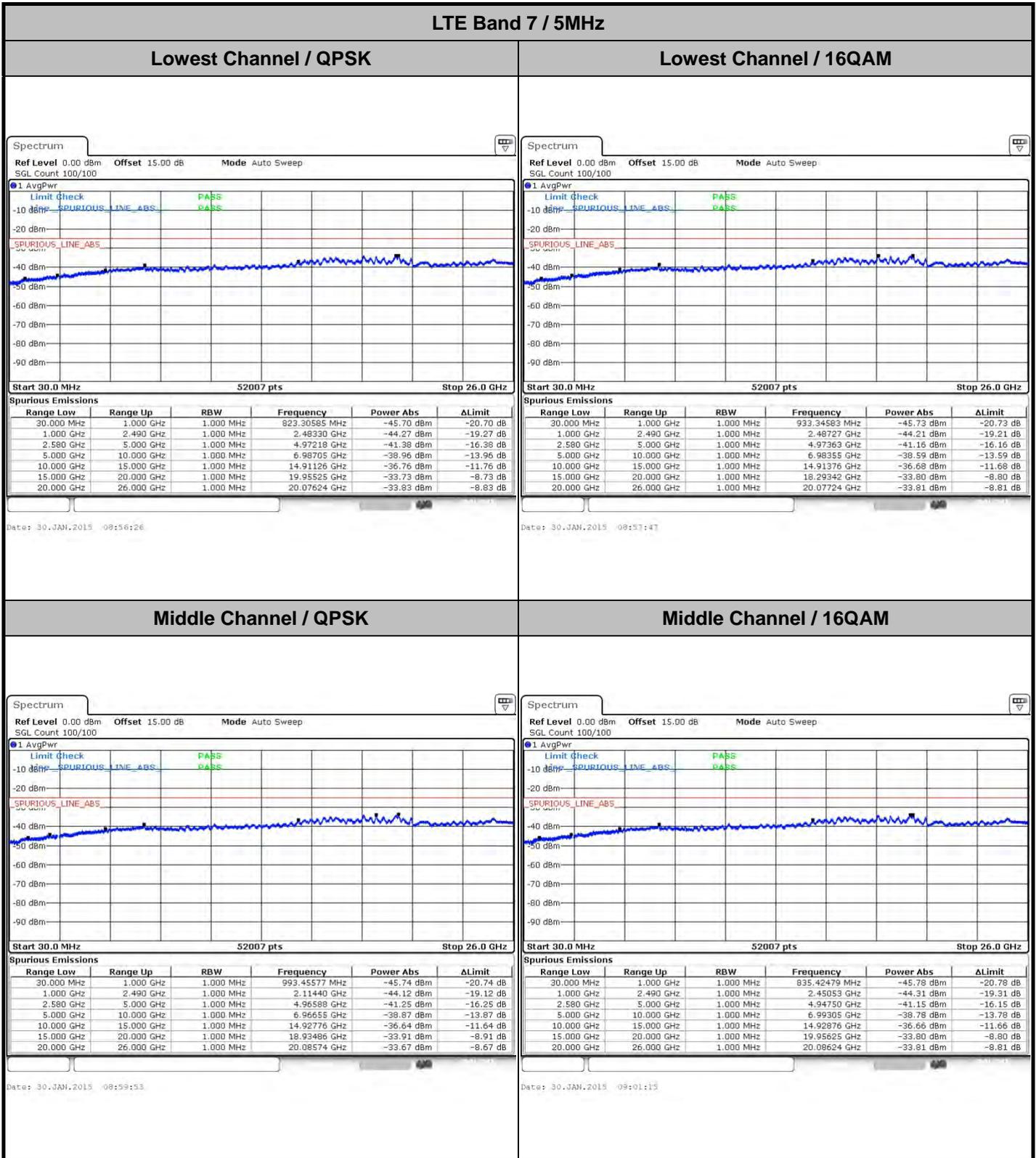


Highest Band Edge / Full RB





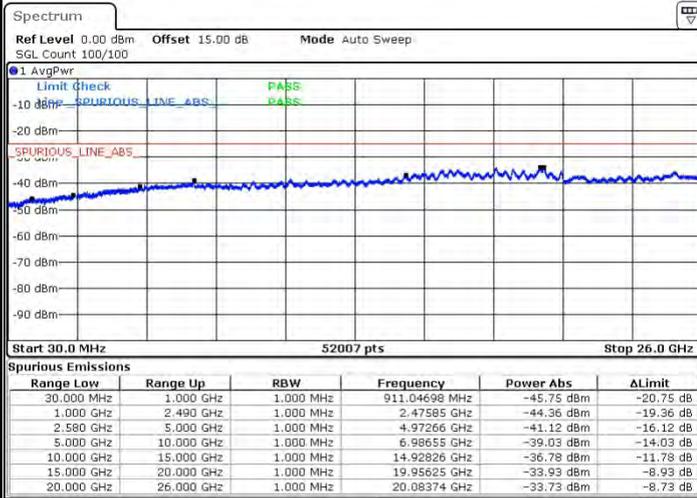
Conducted Spurious Emission





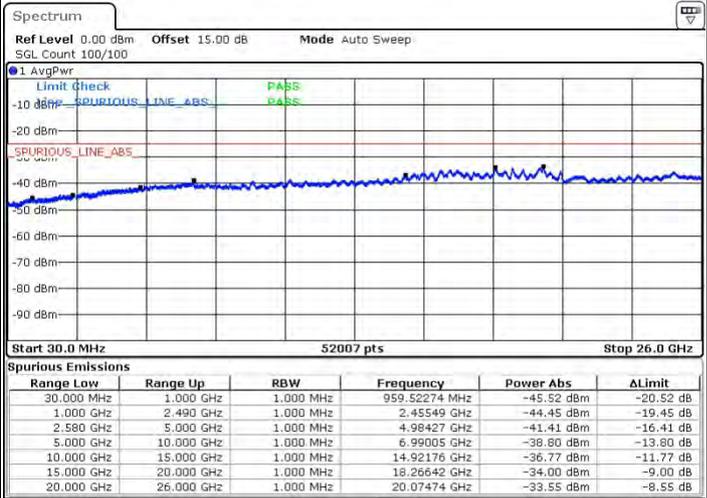
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 30.JAN.2015 09:08:41

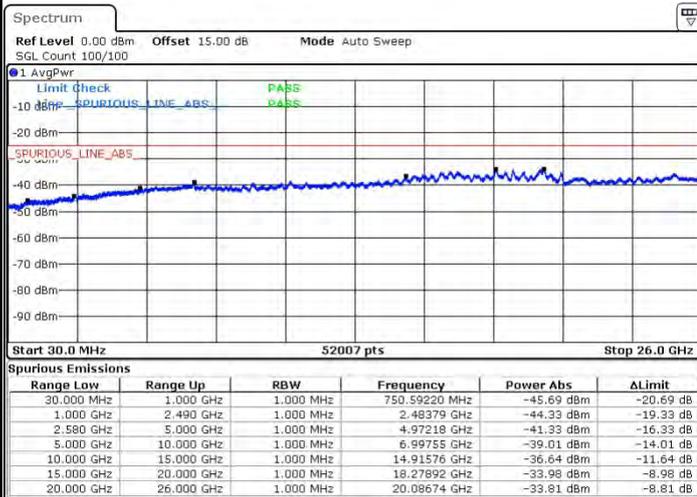
Highest Channel / 16QAM



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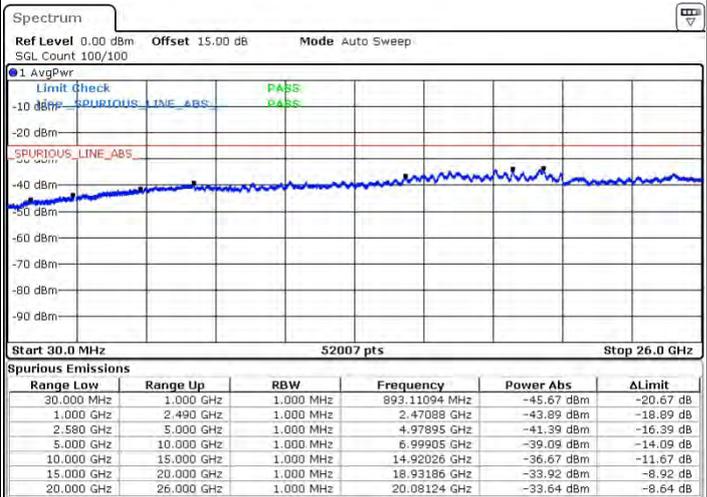
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 30.JAN.2015 09:17:30

Lowest Channel / 16QAM



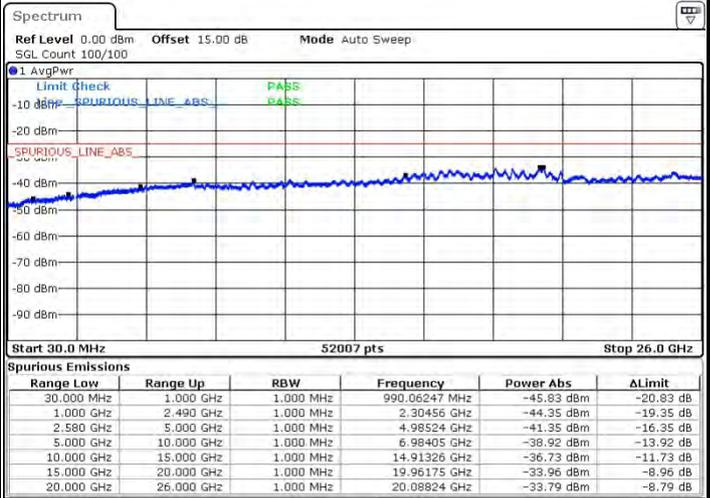
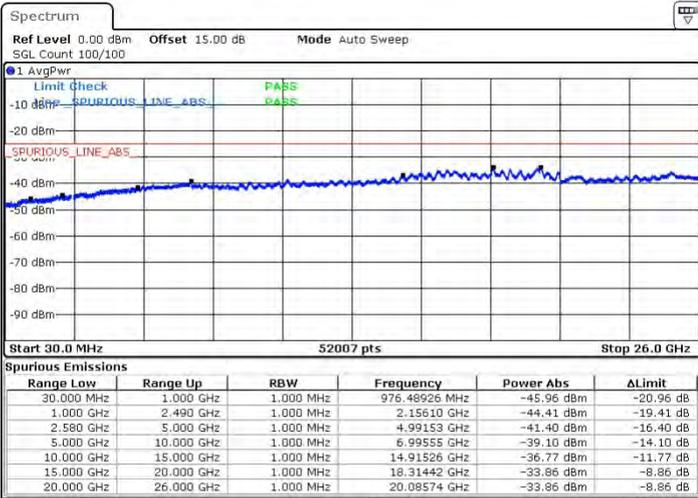
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LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

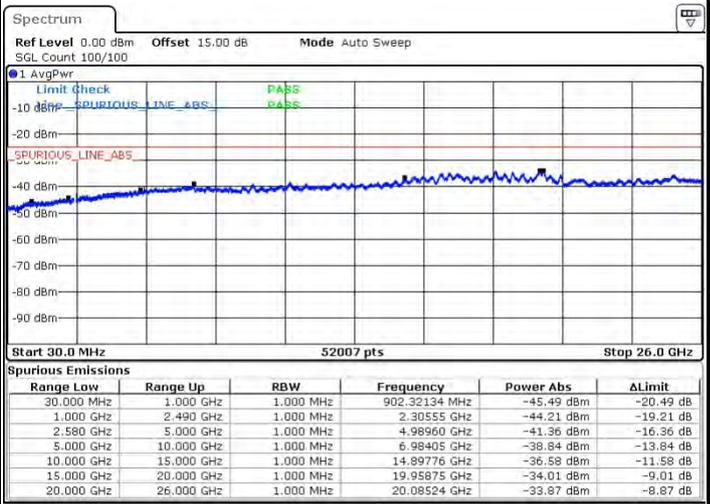
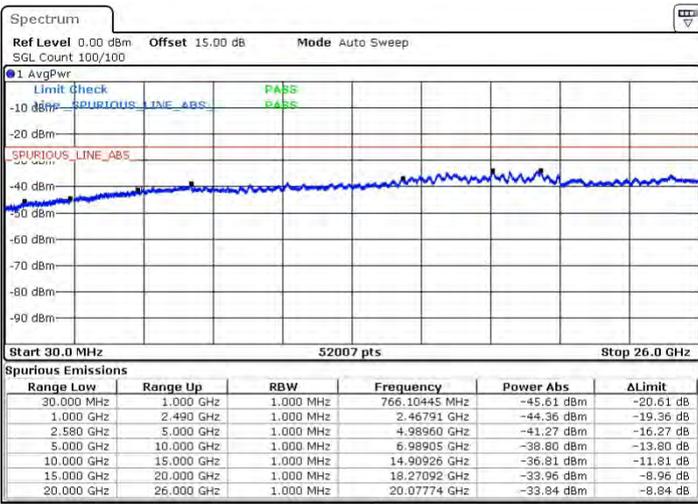


Date: 30.JAN.2015 09:20:57

Date: 30.JAN.2015 09:22:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.JAN.2015 09:29:43

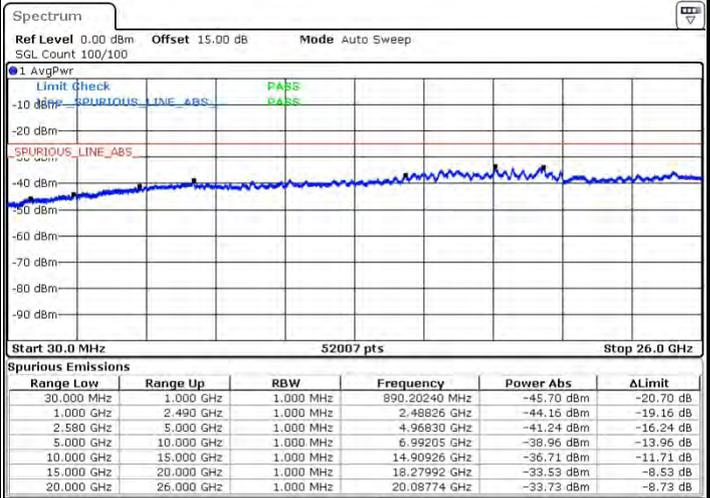
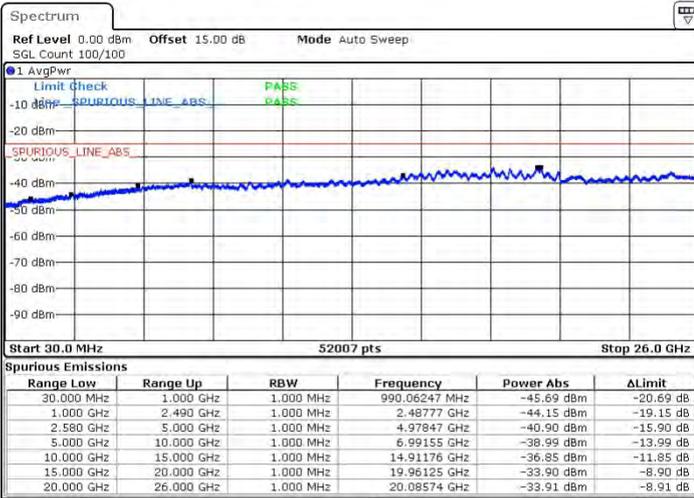
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LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

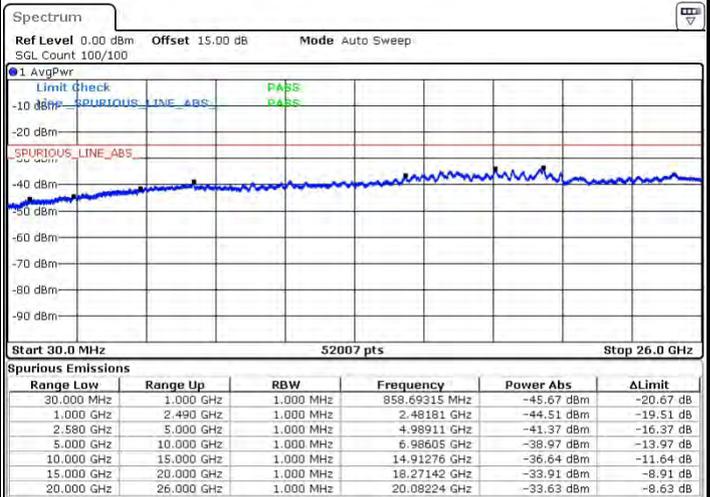
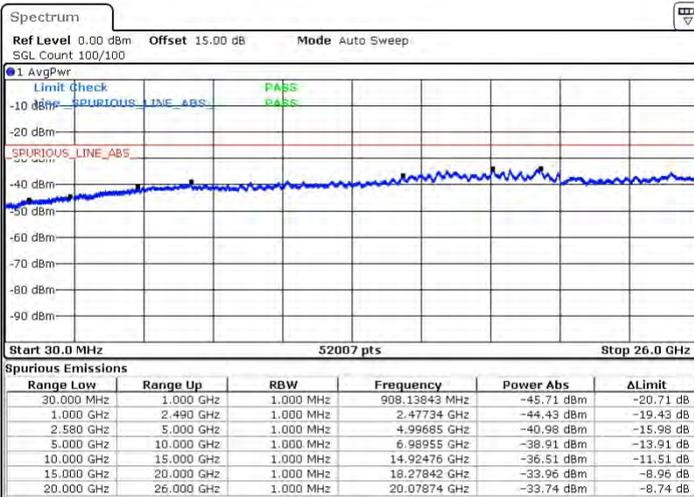


Date: 30.JAN.2015 09:38:31

Date: 30.JAN.2015 09:39:52

Middle Channel / QPSK

Middle Channel / 16QAM



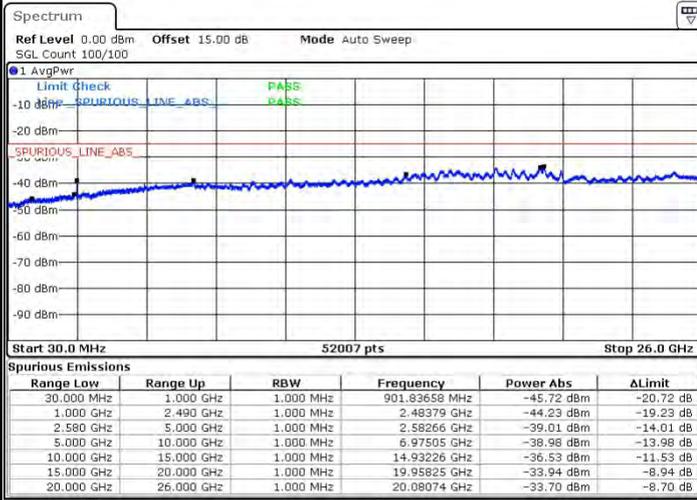
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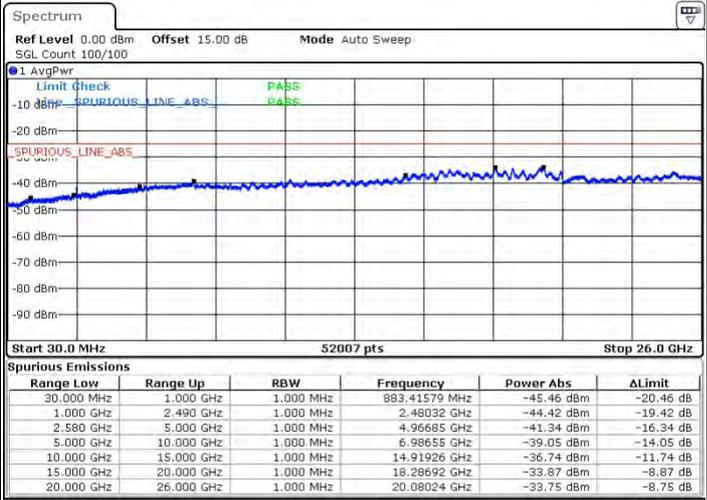
LTE Band7 / 15MHz

Highest Channel / QPSK



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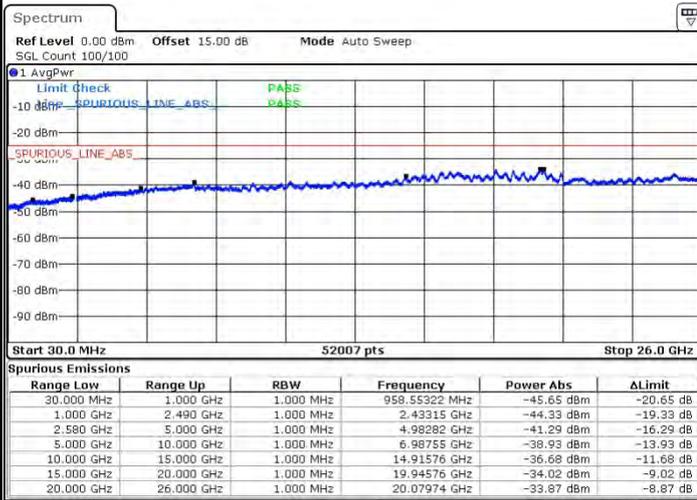
Highest Channel / 16QAM



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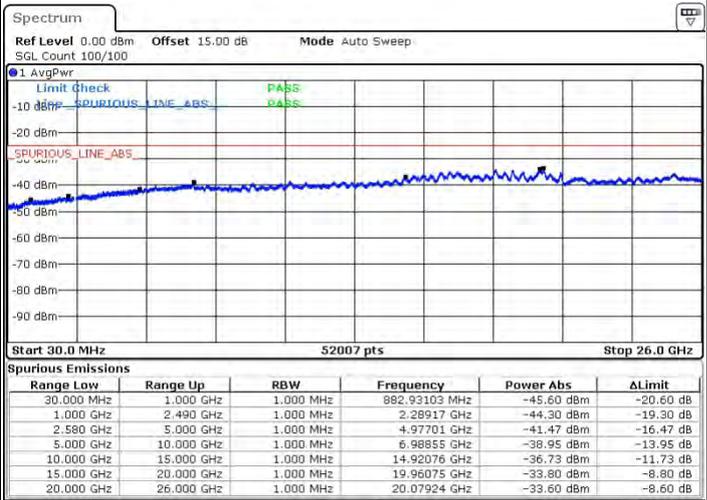
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 30.JAN.2015 09:59:32

Lowest Channel / 16QAM

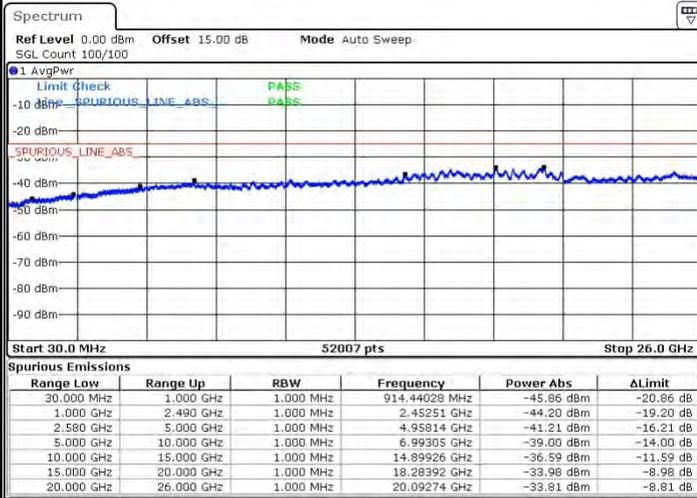


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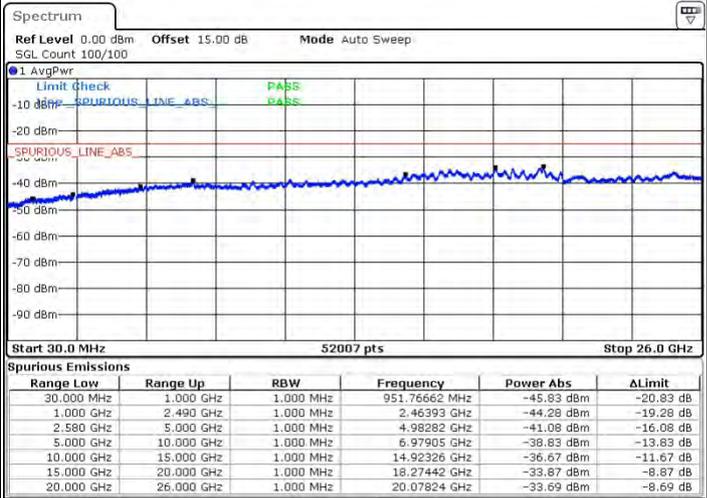
LTE Band 7 / 20MHz

Middle Channel / QPSK



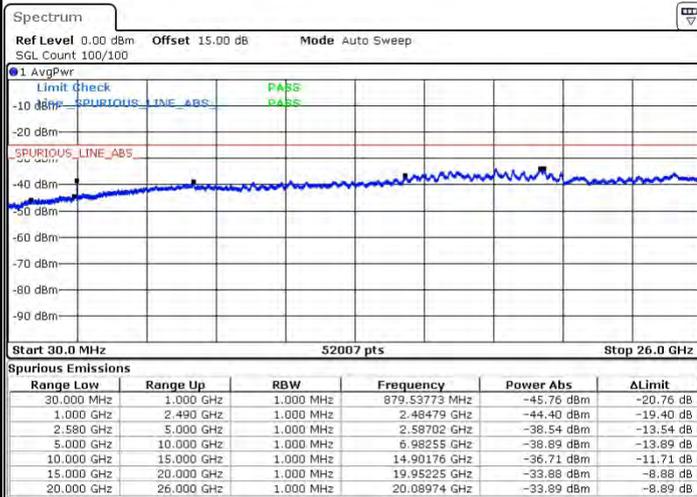
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Middle Channel / 16QAM



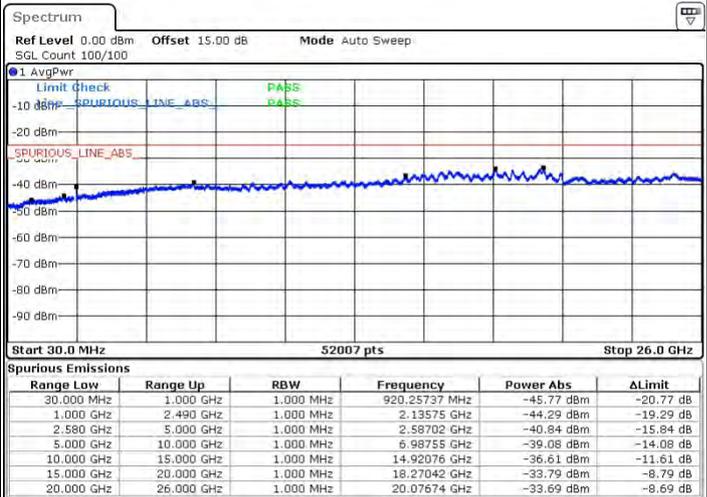
Date: 30.JAN.2015 10:04:20

Highest Channel / QPSK



Date: 30.JAN.2015 10:11:49

Highest Channel / 16QAM



Date: 30.JAN.2015 10:13:12



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.65V. ; Maximum Voltage =4.35V
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

EIRP

LTE Band 4 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	2	25.22	0.3327	25.59	0.3622
Middle		1	2	25.32	0.3404	25.82	0.3819
Highest		1	5	25.27	0.3365	25.60	0.3631
Lowest	16QAM	1	2	24.24	0.2655	24.69	0.2944
Middle		1	2	24.38	0.2742	24.90	0.3090
Highest		1	5	24.38	0.2742	24.75	0.2985
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	25.18	0.3296	25.64	0.3664
Middle		1	7	25.26	0.3357	25.18	0.3296
Highest		1	0	25.02	0.3177	25.37	0.3443
Lowest	16QAM	1	7	24.53	0.2838	25.05	0.3199
Middle		1	14	24.36	0.2729	24.94	0.3119
Highest		1	0	24.04	0.2535	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	25.21	0.3319	25.70	0.3715
Middle		1	24	25.43	0.3491	25.86	0.3855
Highest		1	0	24.75	0.2985	25.11	0.3243
Lowest	16QAM	1	12	24.24	0.2655	24.78	0.3006
Middle		1	12	24.27	0.2673	24.82	0.3034
Highest		1	0	23.68	0.2333	24.05	0.2541
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	25.26	0.3357	25.71	0.3724
Middle		1	24	25.29	0.3381	25.87	0.3864
Highest		1	0	24.58	0.2871	24.96	0.3133
Lowest	16QAM	1	24	24.40	0.2754	24.65	0.2917
Middle		1	24	24.40	0.2754	24.95	0.3126
Highest		1	0	23.50	0.2239	24.00	0.2512
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	74	25.07	0.3214	25.61	0.3639
Middle		1	74	25.28	0.3373	25.69	0.3707
Highest		1	0	24.56	0.2858	24.99	0.3155
Lowest	16QAM	1	74	24.11	0.2576	24.59	0.2877
Middle		1	74	24.62	0.2897	25.17	0.3289
Highest		1	0	24.34	0.2716	24.88	0.3076
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	99	25.31	0.3396	25.92	0.3908
Middle		1	99	24.55	0.2851	25.15	0.3273
Highest		1	99	23.83	0.2415	24.17	0.2612
Lowest	16QAM	1	99	24.21	0.2636	24.86	0.3062
Middle		1	49	23.96	0.2489	24.57	0.2864
Highest		1	99	23.13	0.2056	23.53	0.2254
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	22.91	0.1954	23.37	0.2173
Middle		1	24	22.44	0.1754	22.56	0.1803
Highest		1	24	22.21	0.1663	22.32	0.1706
Lowest	16QAM	1	0	22.07	0.1611	22.52	0.1786
Middle		1	24	21.77	0.1503	21.84	0.1528
Highest		1	24	21.61	0.1449	21.50	0.1413
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	22.77	0.1892	23.14	0.2061
Middle		1	49	22.50	0.1778	22.54	0.1795
Highest		1	49	22.21	0.1663	22.26	0.1683
Lowest	16QAM	1	0	22.11	0.1626	22.37	0.1726
Middle		1	49	21.82	0.1521	21.66	0.1466
Highest		1	49	21.56	0.1432	21.38	0.1374
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	22.75	0.1884	23.19	0.2084
Middle		1	37	22.56	0.1803	22.75	0.1884
Highest		1	74	22.28	0.1690	22.41	0.1742
Lowest	16QAM	1	0	22.35	0.1718	22.49	0.1774
Middle		1	37	21.56	0.1432	21.38	0.1374
Highest		1	37	21.62	0.1452	21.45	0.1396
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	99	22.40	0.1738	22.63	0.1832
Middle		1	99	22.64	0.1837	22.81	0.1910
Highest		1	99	22.38	0.1730	22.37	0.1726
Lowest	16QAM	1	99	21.71	0.1483	21.66	0.1466
Middle		1	99	21.86	0.1535	21.65	0.1462
Highest		1	99	21.70	0.1479	21.40	0.1380
Limit	EIRP < 2W			Result		PASS	



Radiated Spurious Emission

Band :	LTE Band 4	Temperature :	23~25°C						
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	42~58%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3464	-57.05	-13	-44.05	-59.37	-65.27	0.98	9.20	H	Pass
5200	-52.12	-13	-39.12	-58.13	-61.51	1.11	10.50	H	Pass
6932	-35.95	-13	-22.95	-50.29	-44.55	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3464	-54.63	-13	-41.63	-56.98	-62.85	0.98	9.2	V	Pass
5200	-44.55	-13	-31.55	-52.28	-53.94	1.11	10.5	V	Pass
6932	-42.94	-13	-29.94	-56.08	-51.54	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25°C						
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
3464	-57.39	-13	-44.39	-59.71	-65.61	0.98	9.20	H	Pass
5197.5	-54.57	-13	-41.57	-60.58	-63.96	1.11	10.50	H	Pass
6932	-39.12	-13	-26.12	-53.46	-47.72	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
3464	-54.31	-13	-41.31	-56.66	-62.53	0.98	9.2	V	Pass
5197.5	-49.48	-13	-36.48	-57.21	-58.87	1.11	10.5	V	Pass
6932	-46.76	-13	-33.76	-59.9	-55.36	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25°C						
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
3465	-58.03	-13	-45.03	-60.35	-66.25	0.98	9.20	H	Pass
5200	-56.06	-13	-43.06	-62.07	-65.45	1.11	10.50	H	Pass
6932	-42.36	-13	-29.36	-56.70	-50.96	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
3465	-56.12	-13	-43.12	-58.47	-64.34	0.98	9.2	V	Pass
5200	-52.25	-13	-39.25	-59.98	-61.64	1.11	10.5	V	Pass
6932	-49.38	-13	-36.38	-62.52	-57.98	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25°C						
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
3456	-55.75	-13	-42.75	-58.07	-63.97	0.98	9.20	H	Pass
5184	-48.26	-13	-35.26	-54.27	-57.65	1.11	10.50	H	Pass
6916	-33.20	-13	-20.20	-47.54	-41.80	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
3456	-54.15	-13	-41.15	-56.5	-62.37	0.98	9.2	V	Pass
5184	-42.91	-13	-29.91	-50.64	-52.30	1.11	10.5	V	Pass
6916	-41.39	-13	-28.39	-54.53	-49.99	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25°C						
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
3468	-58.96	-13	-45.96	-61.28	-67.18	0.98	9.20	H	Pass
5176	-57.57	-13	-44.57	-63.58	-66.96	1.11	10.50	H	Pass
6932	-44.79	-13	-31.79	-59.13	-53.39	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
3468	-56.25	-13	-43.25	-58.6	-64.47	0.98	9.2	V	Pass
5176	-55.51	-13	-42.51	-63.24	-64.90	1.11	10.5	V	Pass
6932	-50.27	-13	-37.27	-63.41	-58.87	1.2	9.8	V	Pass



Band :	LTE Band 4	Temperature :	23~25°C						
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
3468	-59.12	-13	-46.12	-61.44	-67.34	0.98	9.20	H	Pass
5200	-57.13	-13	-44.13	-63.14	-66.52	1.11	10.50	H	Pass
6932	-45.50	-13	-32.50	-59.84	-54.10	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
3468	-56.78	-13	-43.78	-59.13	-65.00	0.98	9.2	V	Pass
5200	-56.57	-13	-43.57	-64.3	-65.96	1.11	10.5	V	Pass
6932	-50.57	-13	-37.57	-63.71	-59.17	1.2	9.8	V	Pass



Band :	LTE Band 7		Temperature :	23~25°C					
Test Mode :	5MHz QPSK RB Size 1 Offset 0		Relative Humidity :	48~52%					
Test Engineer :	Max Liu		Polarization :	Horizontal					
Remark :	Spurious emissions below 1000MHz 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
5070.00	-57.62	-25	-32.62	-62.61	-66.92	1.2	10.50	H	Pass
7605.00	-53.42	-25	-28.42	-63.53	-60.96	1.56	9.10	H	Pass
10140.00	-49.92	-25	-24.92	-66.55	-58.84	1.78	10.70	H	Pass
12675.00	-43.22	-25	-18.22	-66.57	-54.12	2	12.90	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 :	Max Liu		Polarization :	Vertical					
Remark :	Spurious emissions below 1000MHz 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
5070	-53.89	-25	-28.89	-60.48	-63.19	1.2	10.50	V	Pass
7605	-53.24	-25	-28.24	-63.81	-60.78	1.56	9.10	V	Pass
10140	-50.66	-25	-25.66	-66.81	-59.58	1.78	10.70	V	Pass
12675	-41.80	-25	-16.80	-64.48	-52.70	2	12.90	V	Pass



Band :	LTE Band 7	Temperature :	23~25°C						
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
5060.00	-56.22	-25	-31.22	-61.21	-65.52	1.2	10.50	H	Pass
7592.00	-46.37	-25	-21.37	-56.48	-53.91	1.56	9.10	H	Pass
10128.00	-49.08	-25	-24.08	-65.71	-58.00	1.78	10.70	H	Pass
12652.00	-41.77	-25	-16.77	-65.12	-52.67	2	12.90	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
5060	-51.98	-25	-26.98	-58.57	-61.28	1.2	10.50	V	Pass
7592	-50.44	-25	-25.44	-61.01	-57.98	1.56	9.10	V	Pass
10128	-50.15	-25	-25.15	-66.3	-59.07	1.78	10.70	V	Pass
12652	-38.18	-25	-13.18	-60.86	-49.08	2	12.90	V	Pass



Band :	LTE Band 7	Temperature :	23~25°C						
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	48~52%						
Test Engineer :	Max Liu	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz 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
5056.00	-50.08	-25	-25.08	-61.02	-56.48	1.2	7.60	H	Pass
7584.00	-36.78	-25	-11.78	-57.09	-45.12	1.56	9.90	H	Pass
10112.00	-41.28	-25	-16.28	-64.80	-51.10	1.78	11.60	H	Pass
12640.00	-38.55	-25	-13.55	-64.71	-49.45	2	12.90	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 :	Max Liu	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz 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
5056	-42.76	-25	-17.76	-57.17	-49.16	1.2	7.60	V	Pass
7584	-41.61	-25	-16.61	-60.86	-49.95	1.56	9.90	V	Pass
10112	-41.95	-25	-16.95	-65.18	-51.77	1.78	11.60	V	Pass
12640	-35.00	-25	-10.00	-60.8	-45.90	2	12.90	V	Pass



Band :	LTE Band 7				Temperature :	23~25°C			
Test Mode :	20MHz QPSK RB Size 1 Offset 0				Relative Humidity :	48~52%			
Test Engineer :	Max Liu				Polarization :	Horizontal			
Remark :	Spurious emissions below 1000MHz 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
5052.00	-50.26	-25	-25.26	-61.20	-56.66	1.2	7.60	H	Pass
7576.00	-39.37	-25	-14.37	-59.05	-47.71	1.56	9.90	H	Pass
10108.00	-42.37	-25	-17.37	-65.89	-52.19	1.78	11.60	H	Pass
12632.00	-39.73	-25	-14.73	-65.89	-50.63	2	12.90	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 :	Max Liu				Polarization :	Vertical			
Remark :	Spurious emissions below 1000MHz 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
5052	-42.98	-25	-17.98	-57.42	-49.38	1.2	7.60	V	Pass
7576	-41.30	-25	-16.30	-60.56	-49.64	1.56	9.90	V	Pass
10108	-41.68	-25	-16.68	-64.91	-51.50	1.78	11.60	V	Pass
12632	-36.02	-25	-11.02	-61.82	-46.92	2	12.90	V	Pass