



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.69	22.59	22.72
1.4	1	2		22.51	22.54	22.41
1.4	1	5		22.36	22.38	22.38
1.4	3	0		22.49	22.50	22.57
1.4	3	1		22.29	22.33	22.62
1.4	3	2		22.49	22.57	22.31
1.4	6	0		21.53	21.52	21.55
1.4	1	0	16-QAM	21.77	21.85	21.86
1.4	1	2		21.75	21.69	21.72
1.4	1	5		21.71	21.29	21.69
1.4	3	0		21.72	21.67	21.60
1.4	3	1		21.62	21.74	21.80
1.4	3	2		21.68	21.64	21.64
1.4	6	0		20.32	20.10	20.39
3	1	0	QPSK	22.63	22.55	22.59
3	1	7		22.52	22.47	22.55
3	1	14		22.38	22.43	22.46
3	8	0		21.54	21.52	21.48
3	8	4		21.60	21.58	21.65
3	8	7		21.56	21.54	21.66
3	15	0		21.48	21.47	21.48
3	1	0	16-QAM	21.87	21.85	21.90
3	1	7		21.81	21.79	21.88
3	1	14		21.86	21.72	21.78
3	8	0		20.70	20.38	20.33
3	8	4		20.70	20.67	20.41
3	8	7		20.70	20.40	20.62
3	15	0		20.63	20.31	20.57



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.56	22.65	22.63
5	1	12		22.45	22.33	22.57
5	1	24		22.37	22.28	22.36
5	12	0		21.52	21.44	21.50
5	12	6		21.56	21.50	21.52
5	12	11		21.54	21.45	21.54
5	25	0		21.49	21.40	21.46
5	1	0	16-QAM	21.83	21.83	21.78
5	1	12		21.80	21.75	21.75
5	1	24		21.74	21.61	21.57
5	12	0		20.46	20.42	20.39
5	12	6		20.50	20.47	20.44
5	12	11		20.44	20.43	20.44
5	25	0		20.55	20.45	20.57
10	1	0	QPSK	22.73	22.42	22.59
10	1	24		22.52	22.41	22.45
10	1	49		22.43	22.32	22.47
10	25	0		21.43	21.54	21.51
10	25	12		21.50	21.45	21.49
10	25	24		21.60	21.43	21.47
10	50	0		21.48	21.41	21.47
10	1	0	16-QAM	21.81	21.74	21.88
10	1	24		21.78	21.65	21.87
10	1	49		21.70	21.63	21.62
10	25	0		20.51	20.45	20.45
10	25	12		20.63	20.52	20.47
10	25	24		20.78	20.49	20.49
10	50	0		20.41	20.42	20.31



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.04	22.81	23.02
5	1	12		22.99	22.74	22.98
5	1	24		22.72	22.48	22.72
5	12	0		21.64	21.58	21.57
5	12	6		21.55	21.53	21.67
5	12	11		21.66	21.58	21.71
5	25	0		21.68	21.59	21.66
5	1	0	16-QAM	21.90	22.39	22.17
5	1	12		21.84	21.86	22.00
5	1	24		21.74	21.80	21.82
5	12	0		20.48	20.59	20.69
5	12	6		20.50	20.48	20.55
5	12	11		20.57	20.44	20.69
5	25	0		20.57	20.49	20.72
10	1	0	QPSK	23.02	23.15	23.02
10	1	24		22.86	22.81	22.78
10	1	49		22.69	22.97	22.83
10	25	0		21.73	21.71	21.64
10	25	12		21.62	21.66	21.56
10	25	24		21.62	21.67	21.61
10	50	0		21.63	21.69	21.64
10	1	0	16-QAM	21.99	21.96	22.04
10	1	24		21.83	21.82	21.88
10	1	49		21.91	21.93	21.83
10	25	0		20.72	20.65	20.39
10	25	12		20.44	20.77	20.62
10	25	24		20.58	20.69	20.70
10	50	0		20.42	20.50	20.59



LTE Band 12

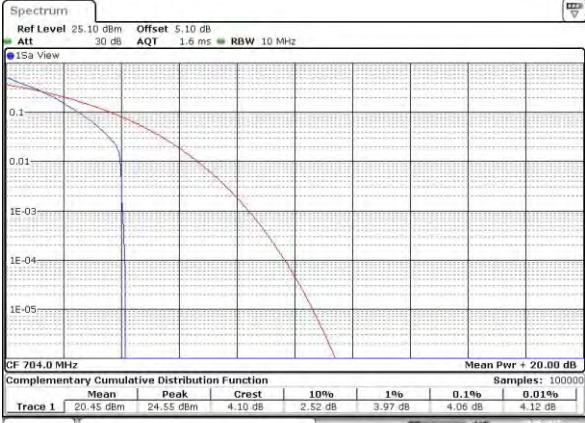
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.06	5.13	4.99	6.00	PASS
Middle CH	4.29	4.99	5.36	5.88	
Highest CH	4.46	4.70	5.22	5.71	



LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 20_JUN,2015 11:43:14

Lowest Channel / Full RB



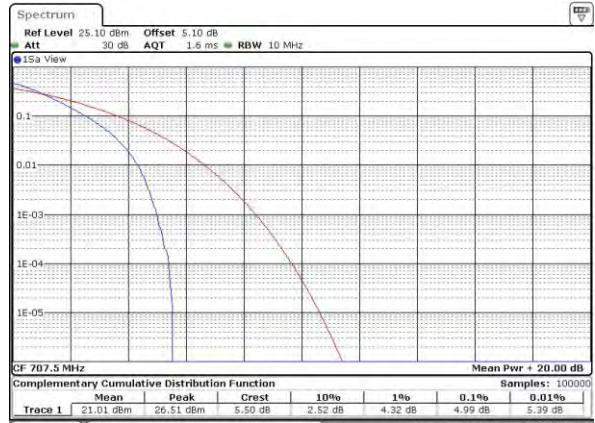
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Middle Channel / 1RB



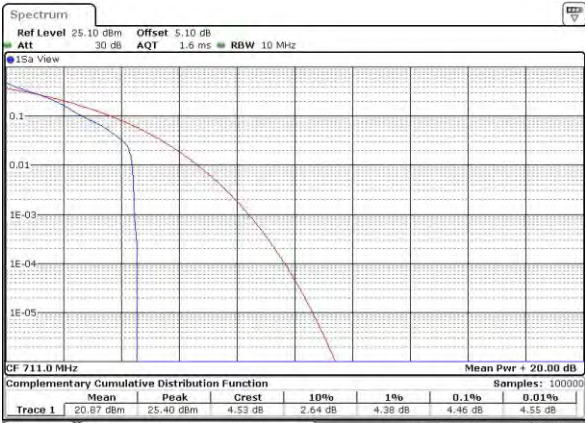
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Middle Channel / Full RB



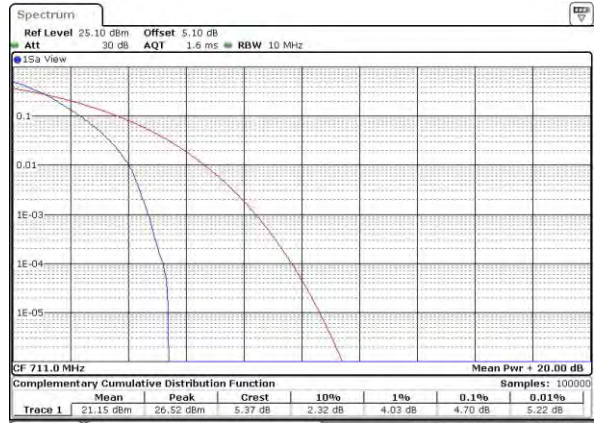
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Highest Channel / 1RB



Date: 20_JUN,2015 11:44:56

Highest Channel / Full RB

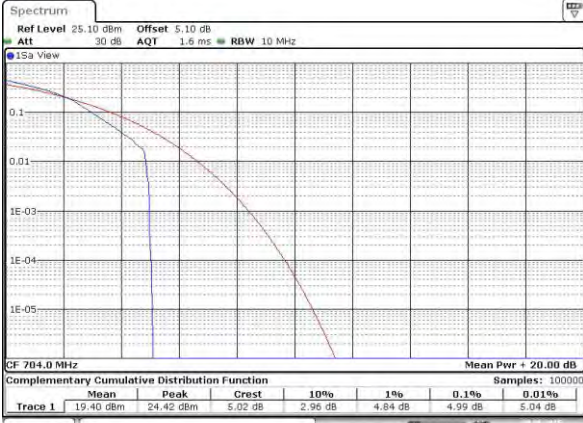


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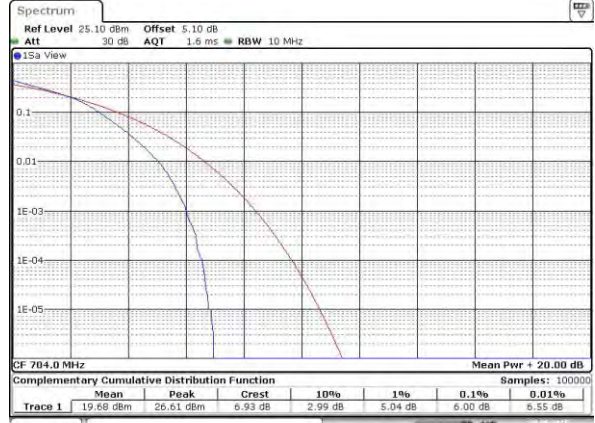
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



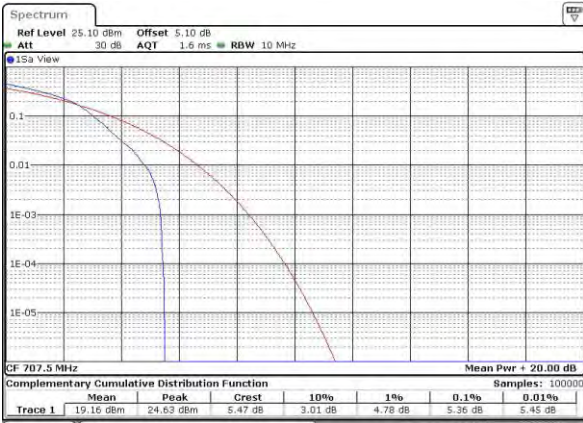
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Lowest Channel / Full RB



Date: 20_JUN,2015 11:41:06

Middle Channel / 1RB



Date: 20_JUN,2015 11:41:37

Middle Channel / Full RB



Date: 20_JUN,2015 11:41:50

Highest Channel / 1RB



Date: 20_JUN,2015 11:43:24

Highest Channel / Full RB



Date: 20_JUN,2015 11:43:12



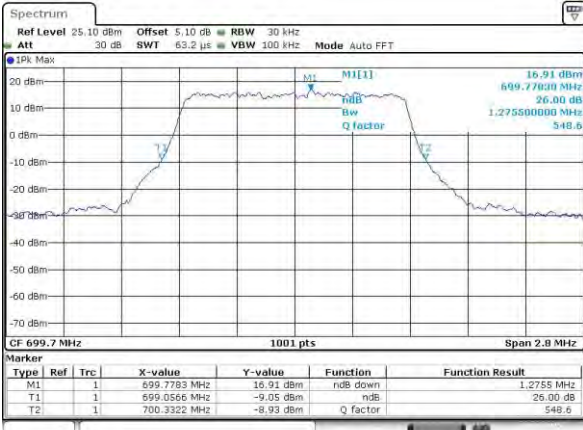
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.30	3.05	3.06	5.03	5.05	9.97	9.93	-	-	-	-
Middle CH	1.28	1.29	3.04	3.09	5.02	5.22	9.95	9.93	-	-	-	-
Highest CH	1.28	1.30	3.05	3.06	5.69	5.03	10.01	9.99	-	-	-	-



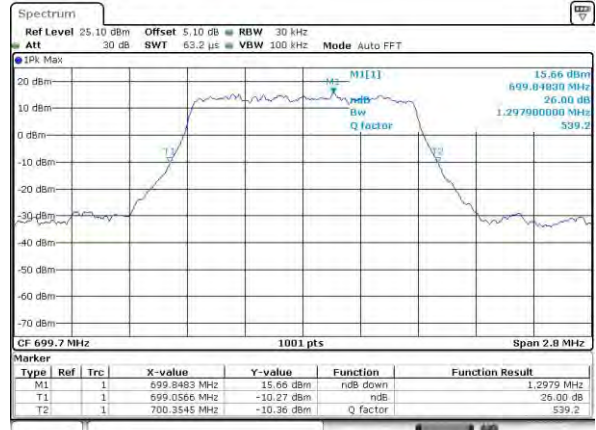
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



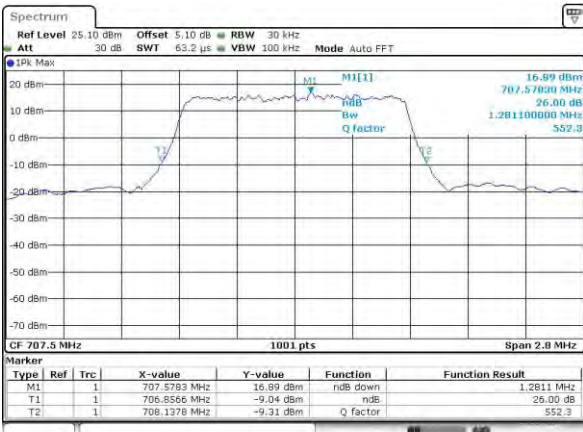
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Lowest Channel / 1.4MHz / 16QAM



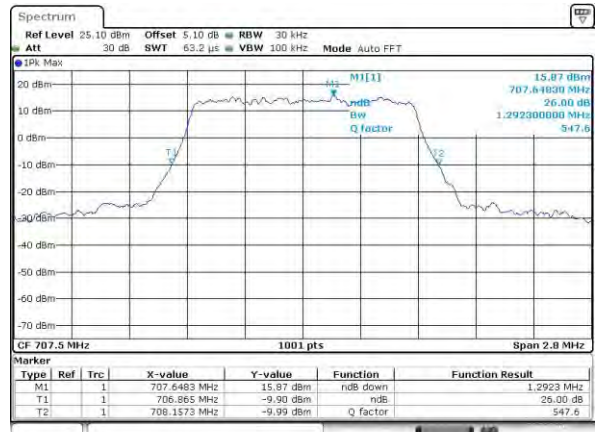
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Middle Channel / 1.4MHz / QPSK



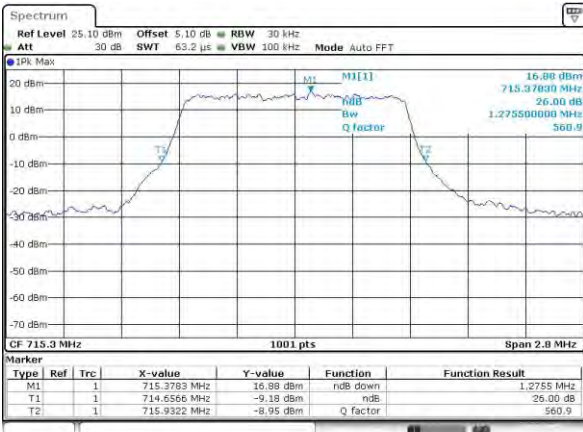
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Middle Channel / 1.4MHz / 16QAM



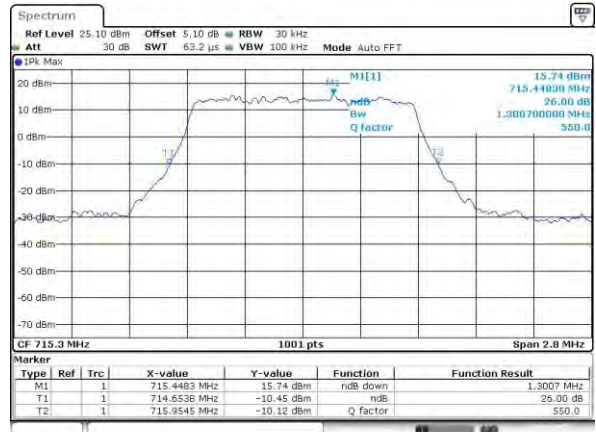
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Highest Channel / 1.4MHz / QPSK



Date: 20-Jun-2018 11:23:45

Highest Channel / 1.4MHz / 16QAM

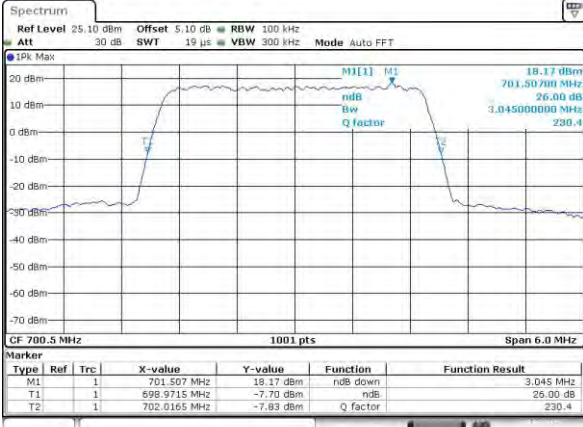


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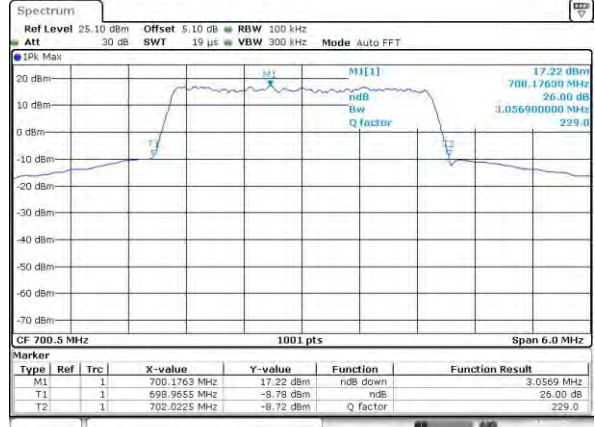
LTE Band 12

Lowest Channel / 3MHz / QPSK



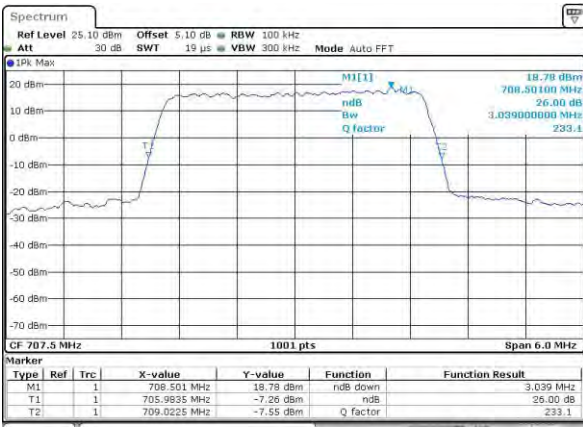
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Lowest Channel / 3MHz / 16QAM



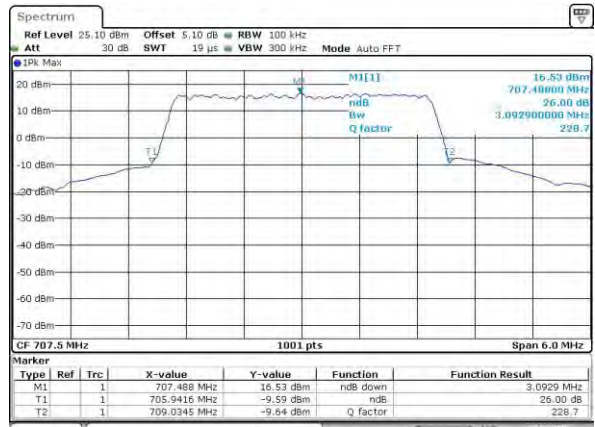
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Middle Channel / 3MHz / QPSK



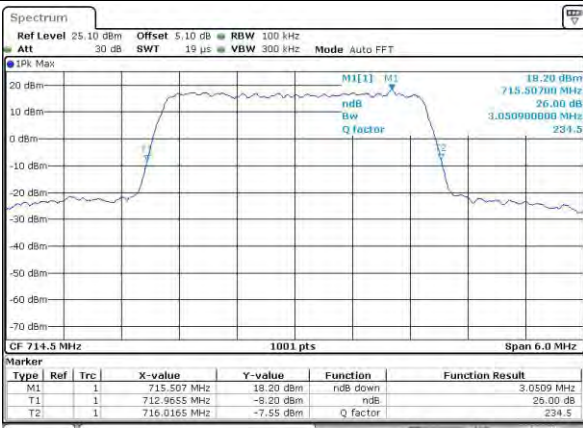
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Middle Channel / 3MHz / 16QAM



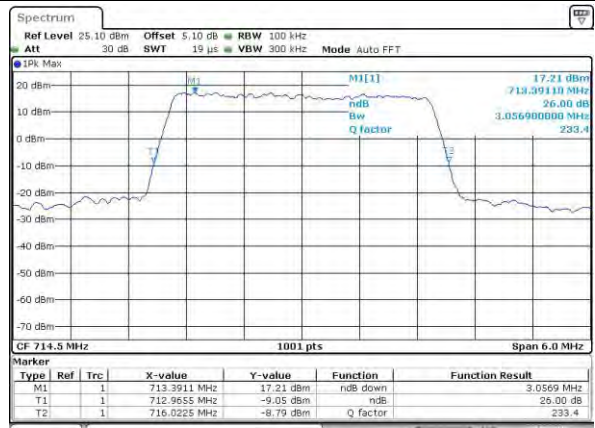
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Highest Channel / 3MHz / QPSK



Date: 20/08/2015 09:37:42

Highest Channel / 3MHz / 16QAM

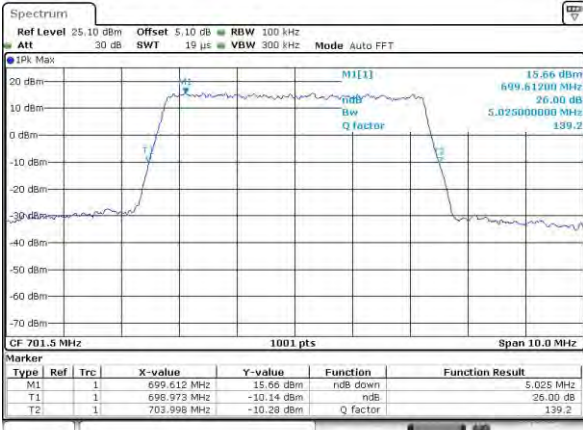


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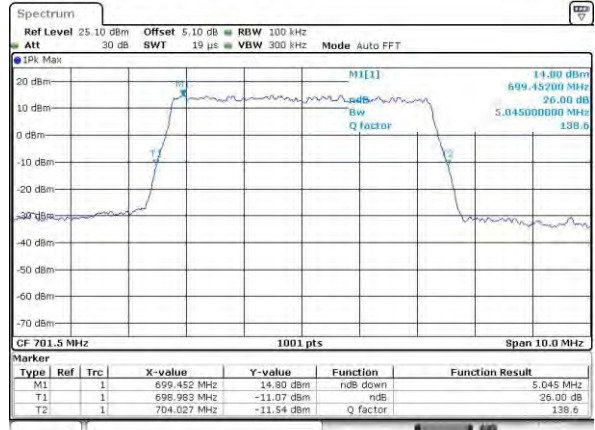
LTE Band 12

Lowest Channel / 5MHz / QPSK



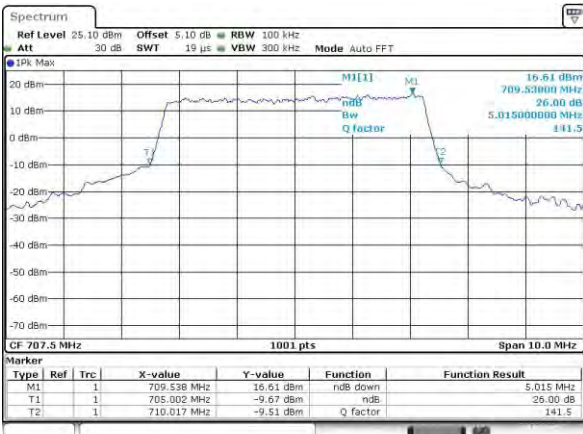
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Lowest Channel / 5MHz / 16QAM



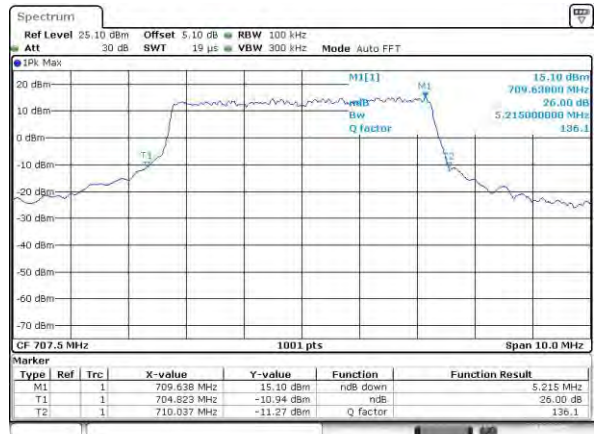
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Middle Channel / 5MHz / QPSK



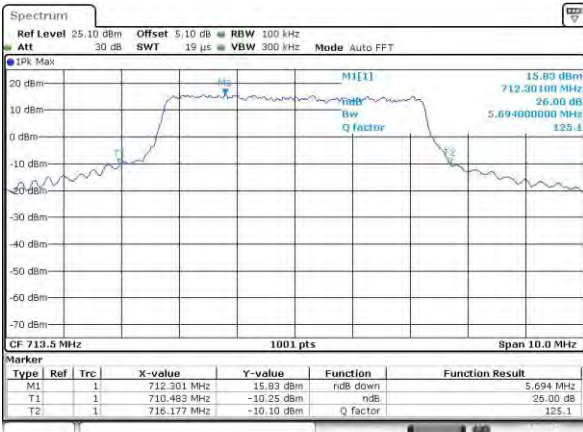
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Middle Channel / 5MHz / 16QAM



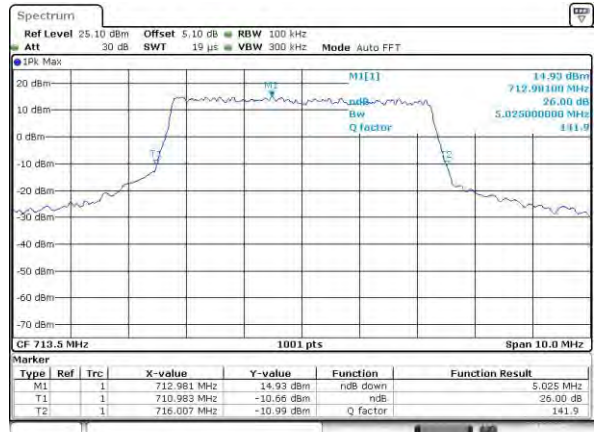
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Highest Channel / 5MHz / QPSK



Date: 20/03/2018 09:47:10

Highest Channel / 5MHz / 16QAM

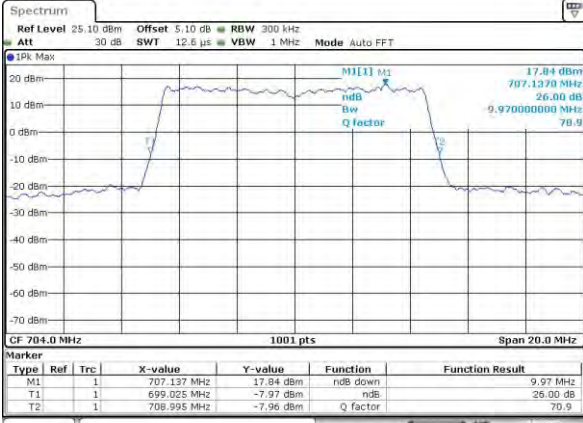


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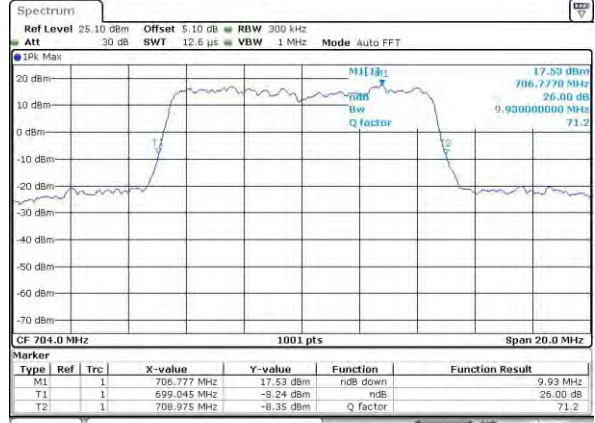
LTE Band 12

Lowest Channel / 10MHz / QPSK



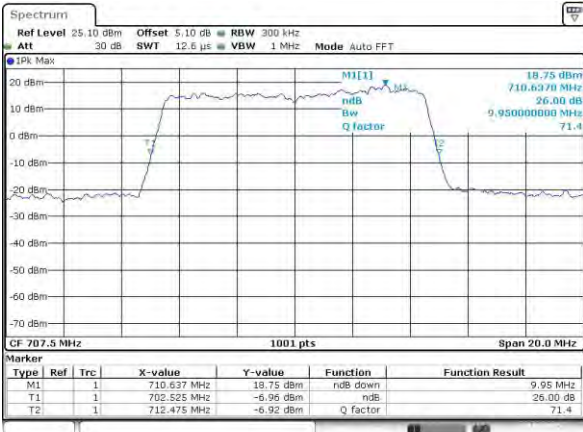
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Lowest Channel / 10MHz / 16QAM



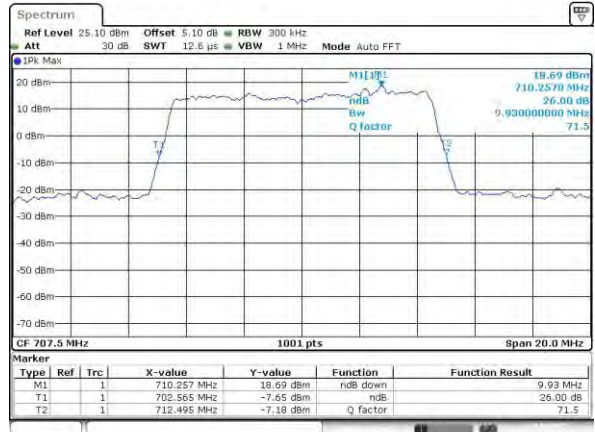
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Middle Channel / 10MHz / QPSK



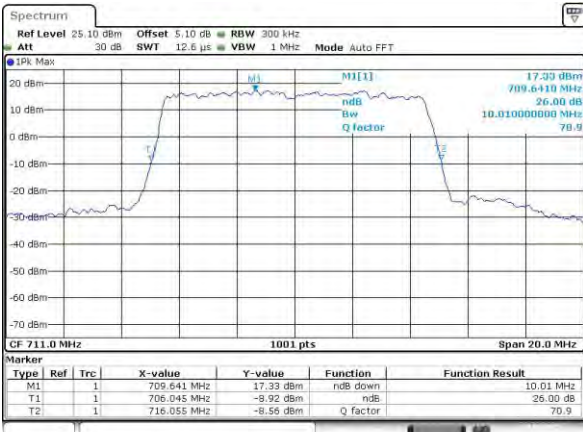
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Middle Channel / 10MHz / 16QAM



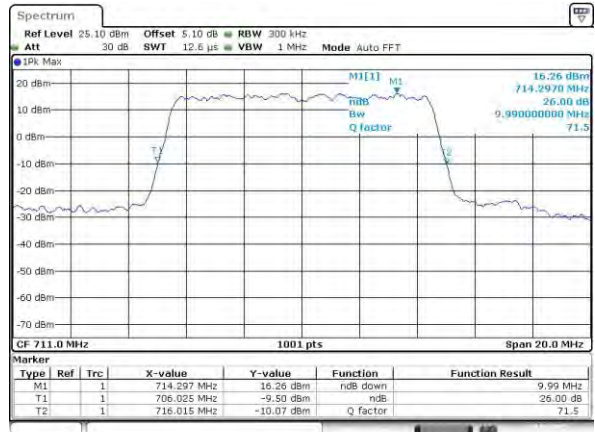
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Highest Channel / 10MHz / QPSK



Date: 20_03N_2015 10:27:55

Highest Channel / 10MHz / 16QAM



Date: 20_03N_2015 10:27:41



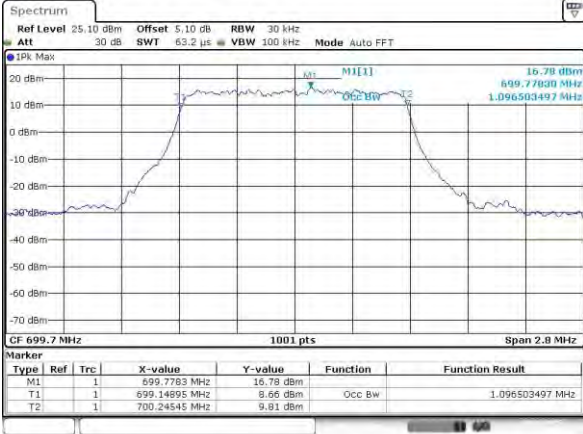
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.10	2.73	2.73	4.50	4.50	9.15	9.07	-	-	-	-
Middle CH	1.10	1.10	2.73	2.73	4.50	4.50	9.07	9.03	-	-	-	-
Highest CH	1.10	1.10	2.73	2.72	4.52	4.52	9.07	9.01	-	-	-	-



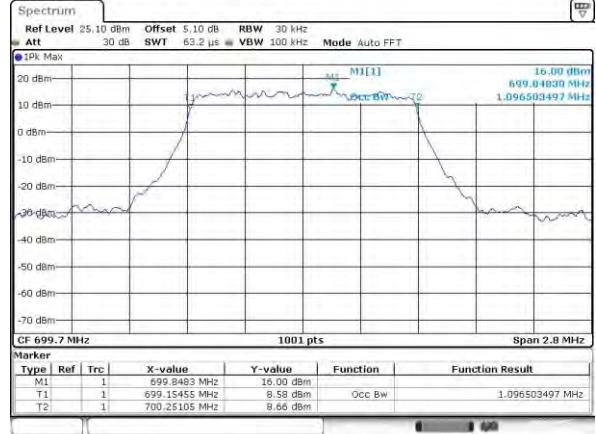
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



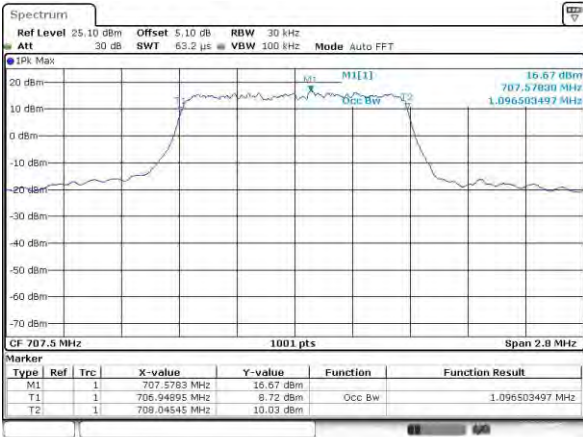
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Lowest Channel / 1.4MHz / 16QAM



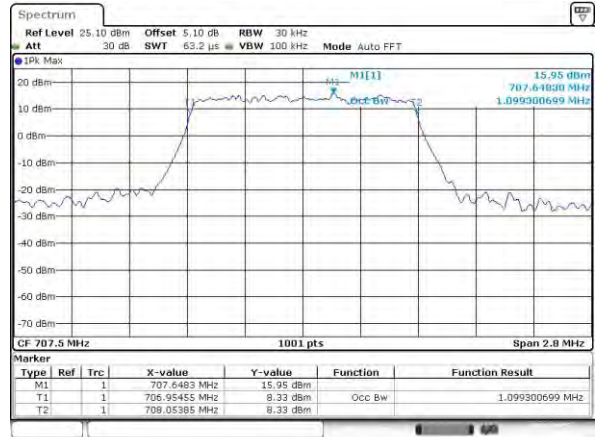
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Middle Channel / 1.4MHz / QPSK



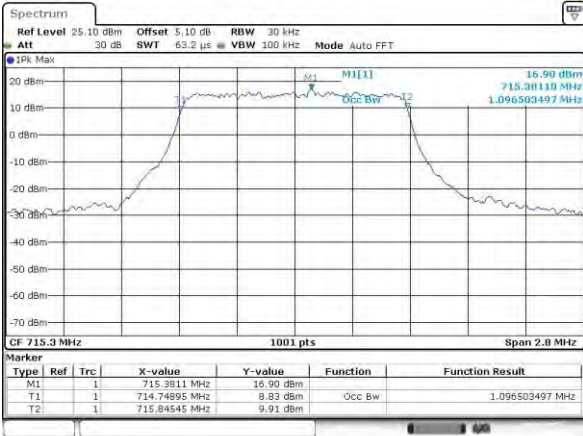
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Middle Channel / 1.4MHz / 16QAM



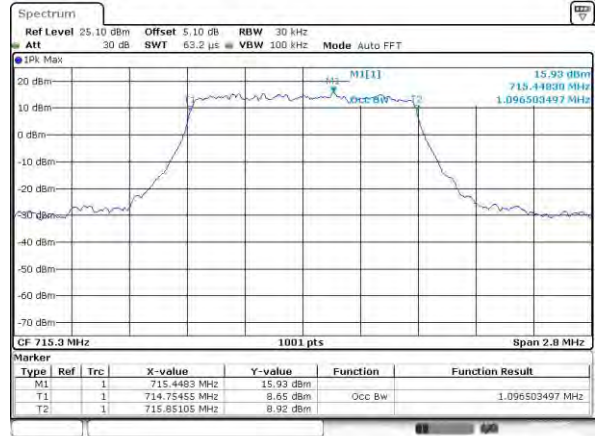
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Highest Channel / 1.4MHz / QPSK



Date: 20/08/2018 11:23:05

Highest Channel / 1.4MHz / 16QAM

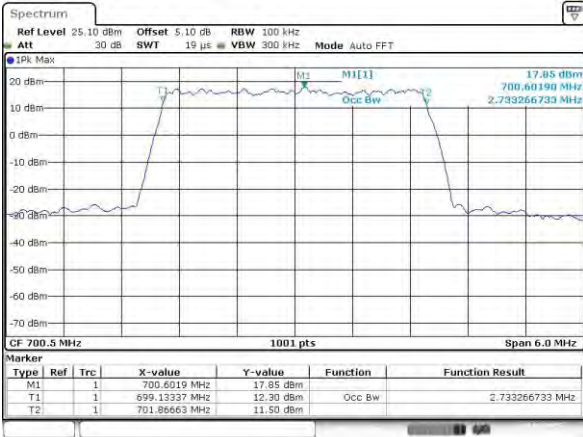


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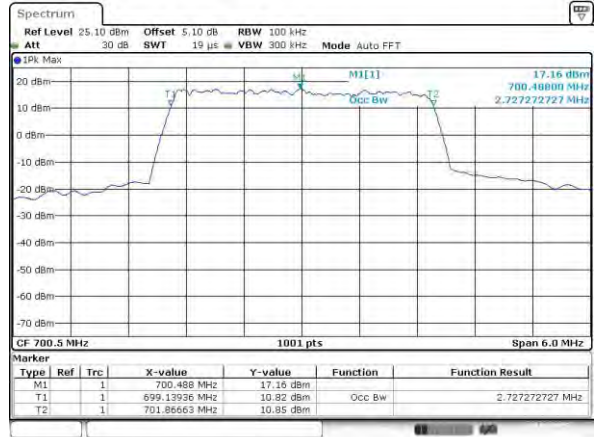
LTE Band 12

Lowest Channel / 3MHz / QPSK



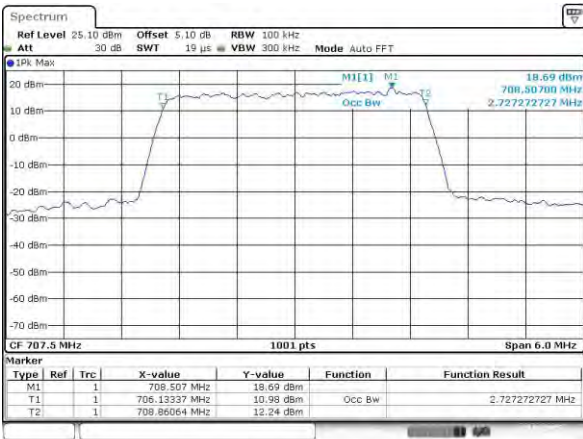
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Lowest Channel / 3MHz / 16QAM



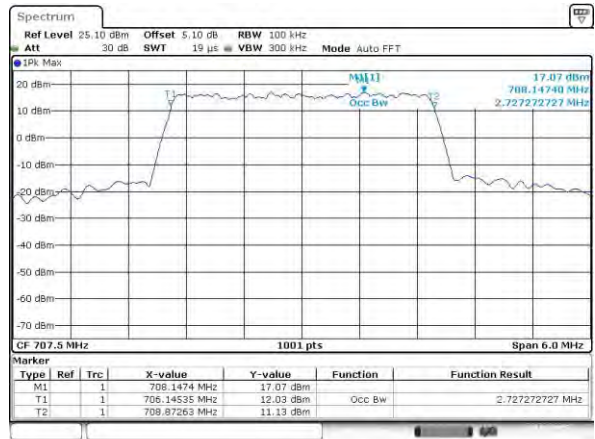
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Middle Channel / 3MHz / QPSK



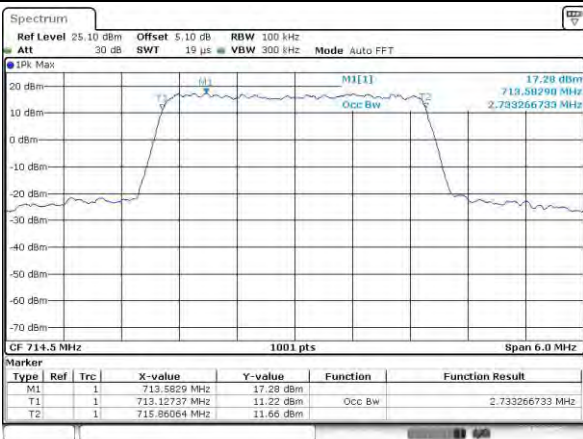
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Middle Channel / 3MHz / 16QAM



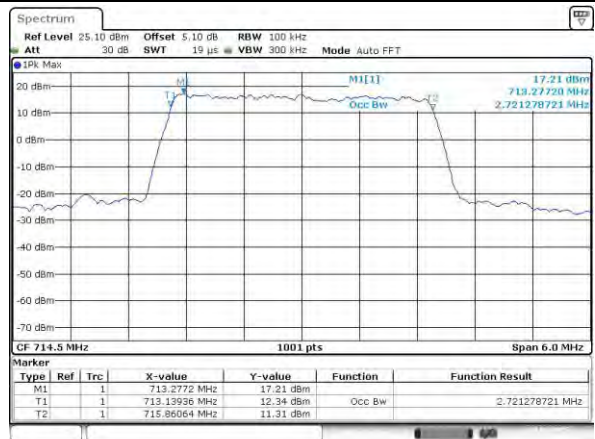
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Highest Channel / 3MHz / QPSK



Date: 20/08/2018 09:35:21

Highest Channel / 3MHz / 16QAM

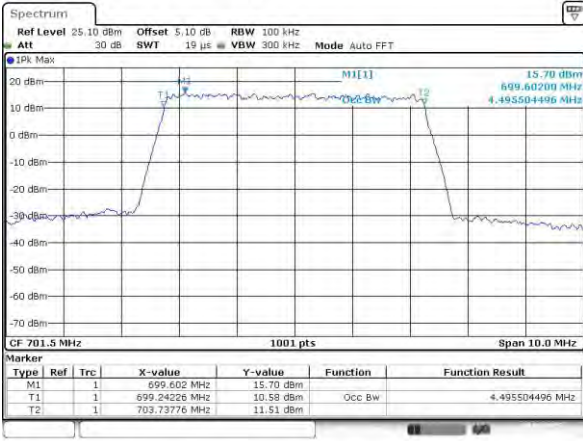


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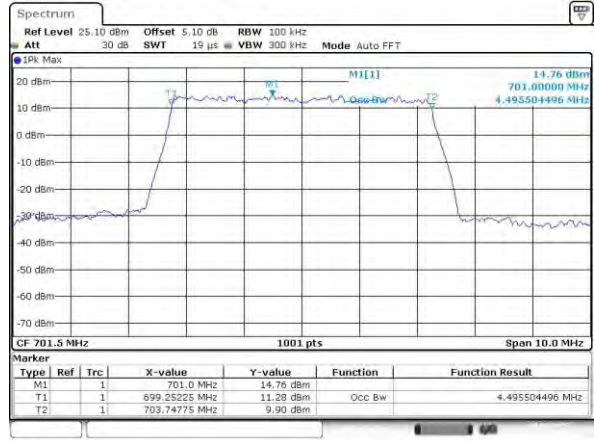
LTE Band 12

Lowest Channel / 5MHz / QPSK



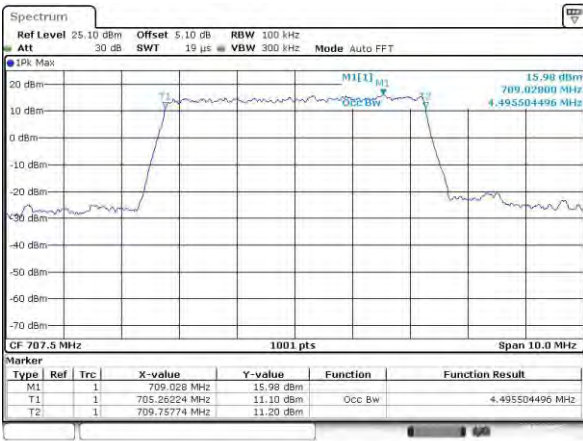
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Lowest Channel / 5MHz / 16QAM



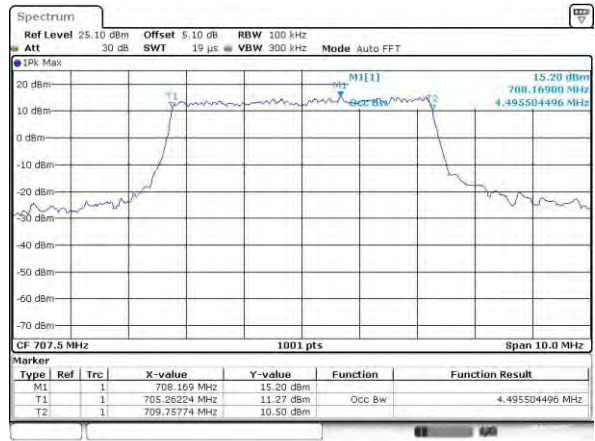
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Middle Channel / 5MHz / QPSK



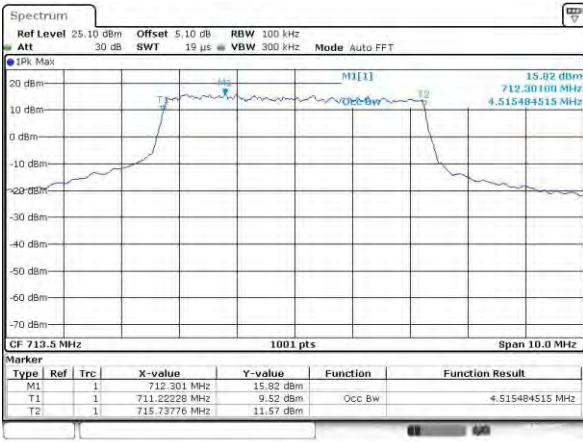
Date: 20/03/2018 09:45:12

Middle Channel / 5MHz / 16QAM



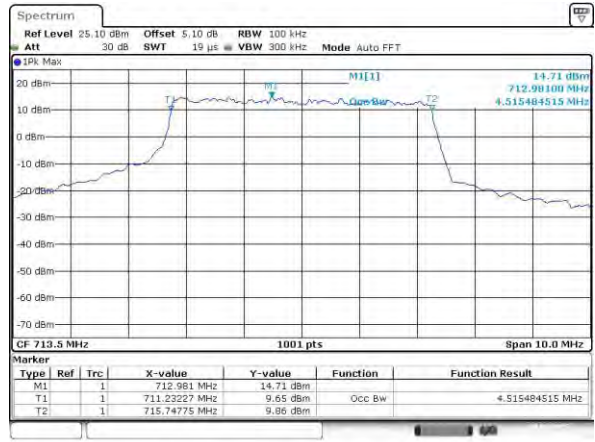
Date: 20/03/2018 09:45:10

Highest Channel / 5MHz / QPSK



Date: 20/03/2018 09:46:10

Highest Channel / 5MHz / 16QAM

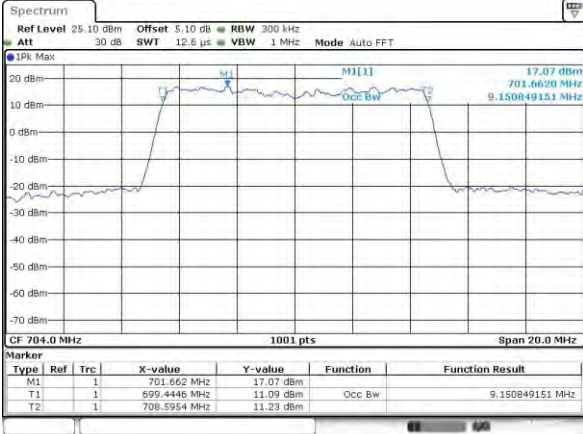


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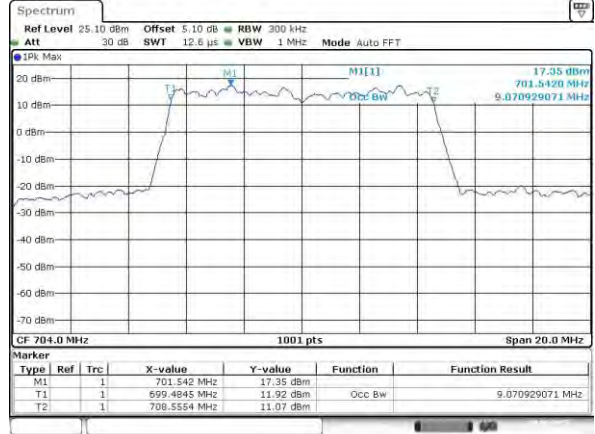
LTE Band 12

Lowest Channel / 10MHz / QPSK



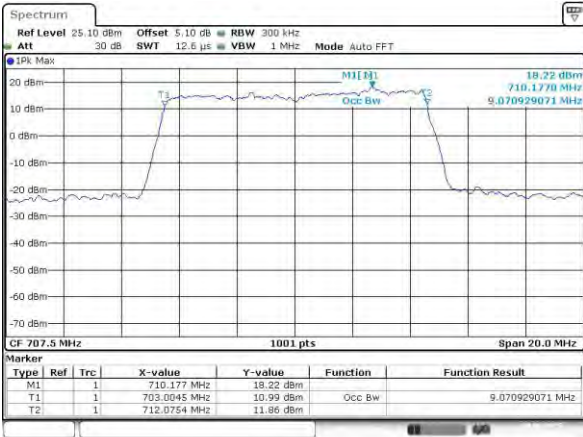
Date: 20/08/2015 10:15:53

Lowest Channel / 10MHz / 16QAM



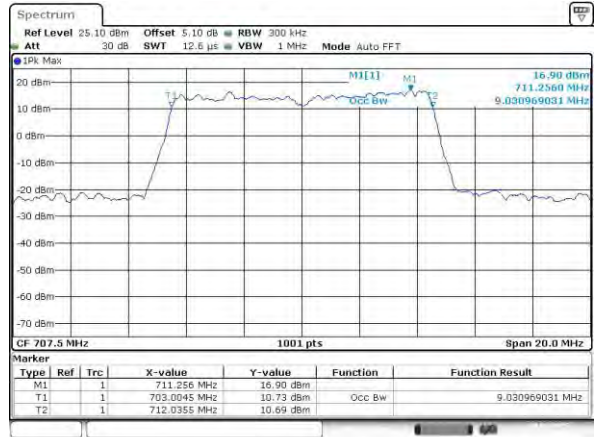
Date: 20/08/2015 10:16:06

Middle Channel / 10MHz / QPSK



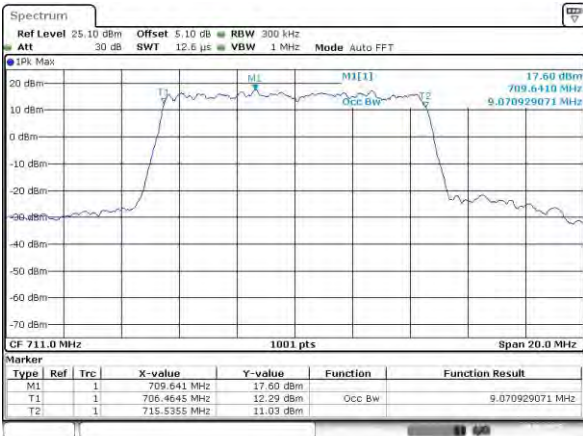
Date: 20/08/2015 10:24:06

Middle Channel / 10MHz / 16QAM



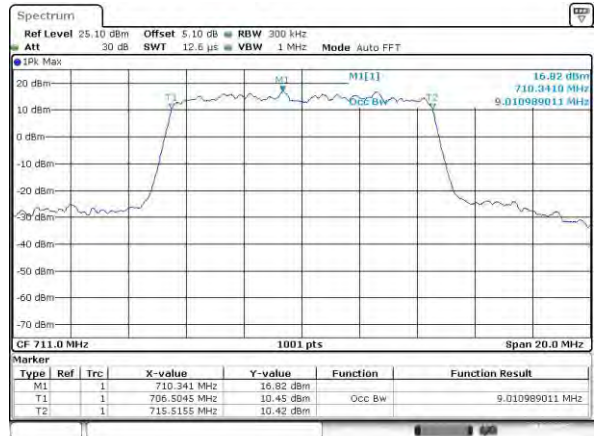
Date: 20/08/2015 10:23:55

Highest Channel / 10MHz / QPSK



Date: 20/08/2015 10:27:15

Highest Channel / 10MHz / 16QAM



Date: 20/08/2015 10:27:27



Conducted Band Edge



LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Date: 20 JUN 2015 11:17:04

Highest Band Edge / 1RB



Date: 20 JUN 2015 11:28:25

Lowest Band Edge / Full RB



Date: 20 JUN 2015 11:13:33

Highest Band Edge / Full RB



Date: 20 JUN 2015 11:24:55



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 20 JUN 2015 11:15:54

Highest Band Edge / 1 RB



Date: 20 JUN 2015 11:27:15

Lowest Band Edge / Full RB



Date: 20 JUN 2015 11:18:44

Highest Band Edge / Full RB

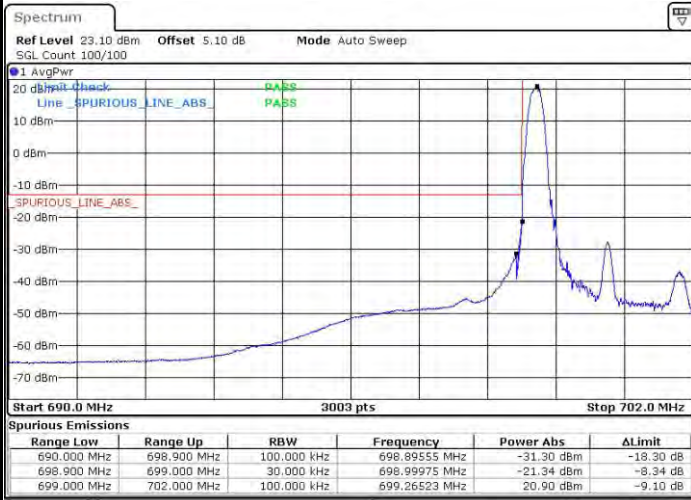


Date: 20 JUN 2015 11:26:05



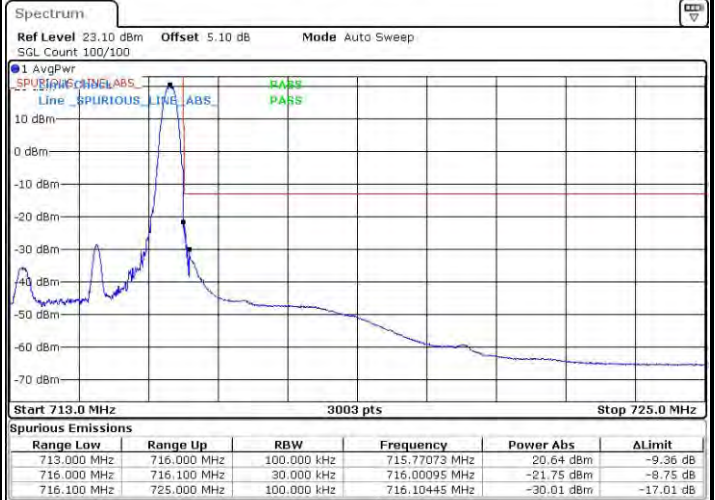
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 20 JUN 2015 09:29:19

Highest Band Edge / 1 RB



Date: 20 JUN 2015 09:42:23

Lowest Band Edge / Full RB



Date: 20 JUN 2015 09:29:47

Highest Band Edge / Full RB



Date: 20 JUN 2015 09:38:52