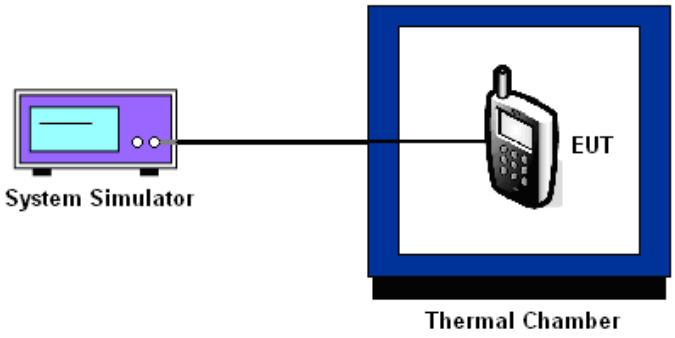
3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 27, 2014	May 12, 2015 ~ May 13, 2015	Oct. 26, 2015	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Sep. 17, 2014	May 12, 2015 ~ May 13, 2015	Sep. 16 2015	Conducted (TH02-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-30℃~70℃	Dec. 04, 2014	May 12, 2015 ~ May 13, 2015	Dec. 03, 2015	Conducted (TH02-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	May 19, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2014	May 19, 2015	Aug. 18, 2015	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Nov. 05, 2014	May 19, 2015	Nov. 04, 2015	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 12, 2015	May 19, 2015	Mar. 11, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 21, 2014	May 19, 2015	Oct. 20, 2015	Radiation (03CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	101749	10Hz~30GHz	Mar. 10, 2015	May 19, 2015	Mar. 09, 2016	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	May 19, 2015	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	May 19, 2015	N/A	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 23, 2014	May 19, 2015	May 22, 2015	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.50**

Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.47	22.49	22.46
1.4	1	2		22.52	22.52	**22.54**
1.4	1	5		22.48	22.37	22.42
1.4	3	0		22.29	22.23	22.23
1.4	3	1		22.39	22.50	22.43
1.4	3	2		22.33	22.28	22.36
1.4	6	0		21.36	21.34	21.21
1.4	1	0	16-QAM	21.67	21.76	21.66
1.4	1	2		21.92	21.87	21.75
1.4	1	5		21.79	21.80	21.63
1.4	3	0		21.46	21.41	21.45
1.4	3	1		21.39	21.45	21.35
1.4	3	2		21.33	21.32	21.27
1.4	6	0		20.44	20.45	20.29
3	1	0	QPSK	22.31	22.36	22.33
3	1	7		**22.60**	22.52	22.40
3	1	14		22.30	22.31	22.19
3	8	0		21.36	21.33	21.27
3	8	4		21.31	21.32	21.24
3	8	7		21.28	21.22	21.25
3	15	0		21.43	21.27	21.35
3	1	0	16-QAM	21.53	21.63	21.56
3	1	7		21.83	21.75	21.83
3	1	14		21.56	21.51	21.50
3	8	0		20.41	20.32	20.29
3	8	4		20.34	20.48	20.26
3	8	7		20.36	20.25	20.37
3	15	0		20.29	20.32	20.31

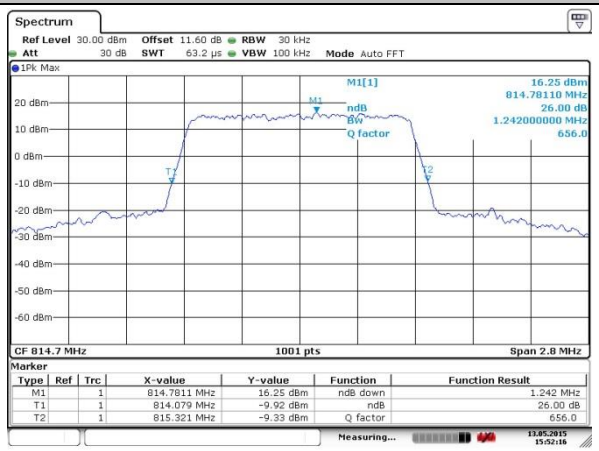
LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.43	22.39	22.42
5	1	12		22.22	22.32	22.22
5	1	24		22.43	22.38	22.21
5	12	0		21.25	21.29	21.21
5	12	6		21.38	21.35	21.36
5	12	11		21.27	21.28	21.17
5	25	0		21.40	21.30	21.20
5	1	0	16-QAM	21.63	21.71	21.53
5	1	12		21.83	21.75	21.74
5	1	24		21.65	21.66	21.41
5	12	0		20.20	20.16	20.20
5	12	6		20.26	20.22	20.30
5	12	11		20.15	20.27	20.23
5	25	0		20.40	20.28	20.27
10	1	0	QPSK	-	22.61	-
10	1	24		-	22.41	-
10	1	49		-	22.23	-
10	25	0		-	21.41	-
10	25	12		-	21.36	-
10	25	24		-	21.29	-
10	50	0		-	21.36	-
10	1	0	16-QAM	-	21.73	-
10	1	24		-	21.86	-
10	1	49		-	21.68	-
10	25	0		-	20.35	-
10	25	12		-	20.41	-
10	25	24		-	20.22	-
10	50	0		-	20.43	-

26dB Bandwidth

Mode	LTE Band 26 : 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	1.24	1.23	3.06	3.07	5.01	5.00	-	-	-	-	-	-
Middle CH	1.24	1.23	3.06	3.07	4.99	4.99	9.99	9.93	-	-	-	-
Highest CH	1.24	1.24	3.06	3.06	5.01	5.00	-	-	-	-	-	-

LTE Band 26

Lowest Channel / 1.4MHz / QPSK



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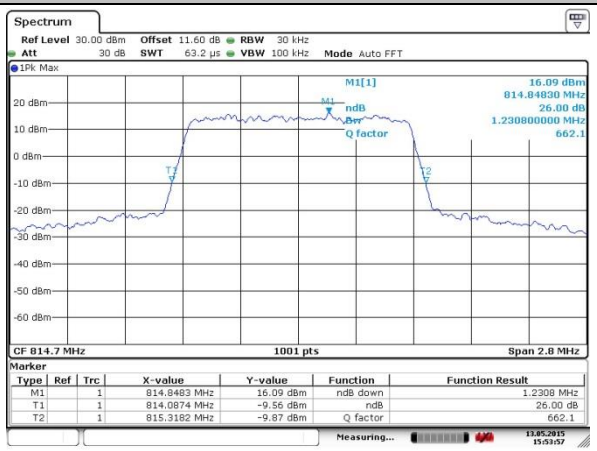
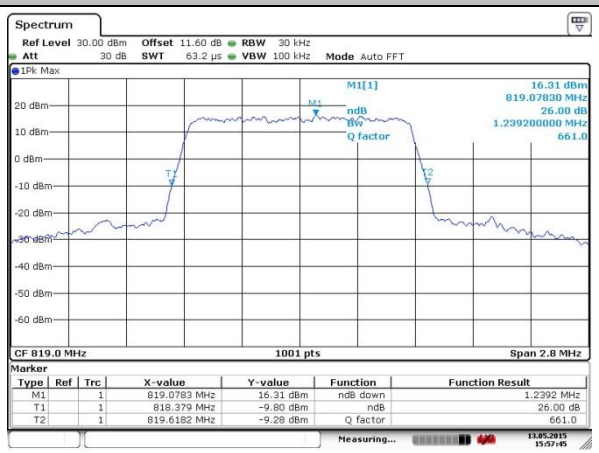
Lowest Channel / 1.4MHz / 16QAM



Date: 13.MAY.2015 15:53:56

Middle Channel / 1.4MHz / QPSK



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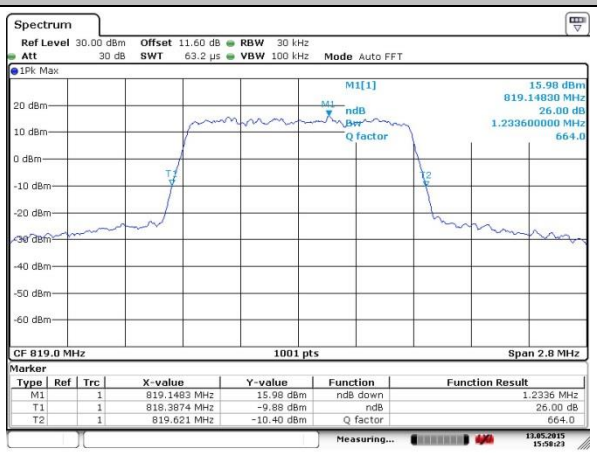
Middle Channel / 1.4MHz / 16QAM



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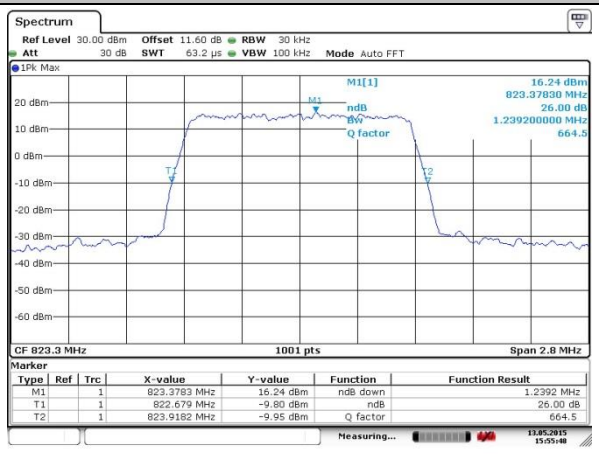
Highest Channel / 1.4MHz / QPSK



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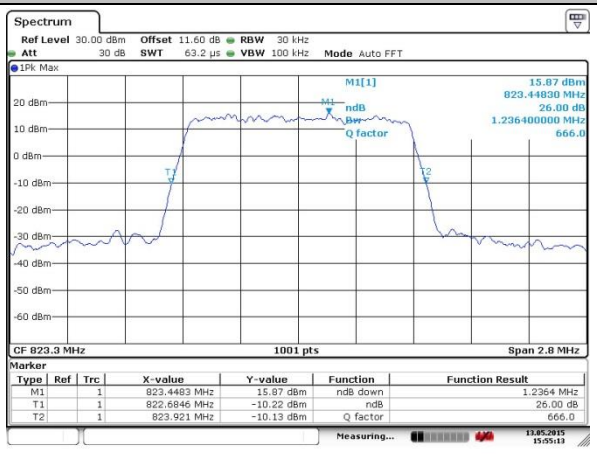
Highest Channel / 1.4MHz / 16QAM



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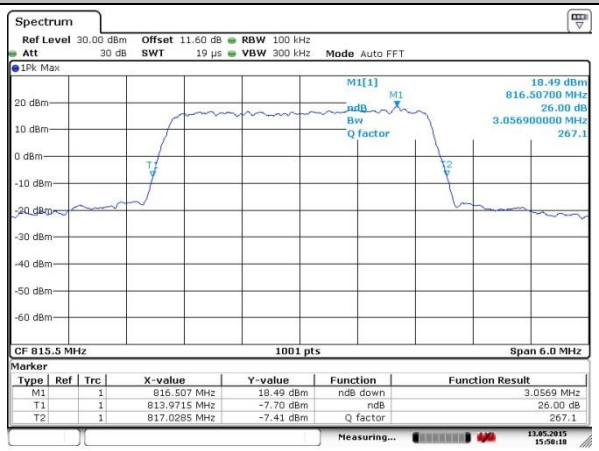
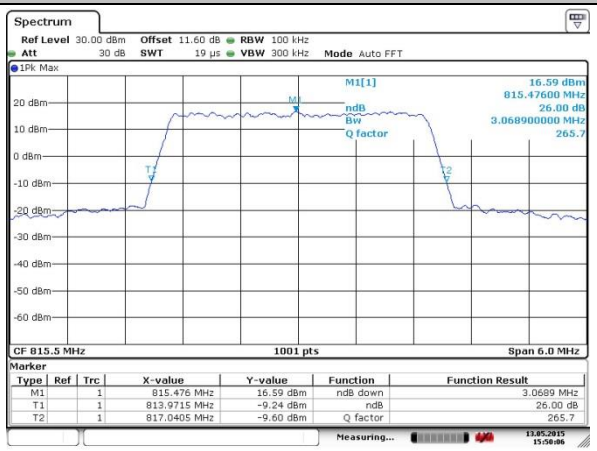
LTE Band 26

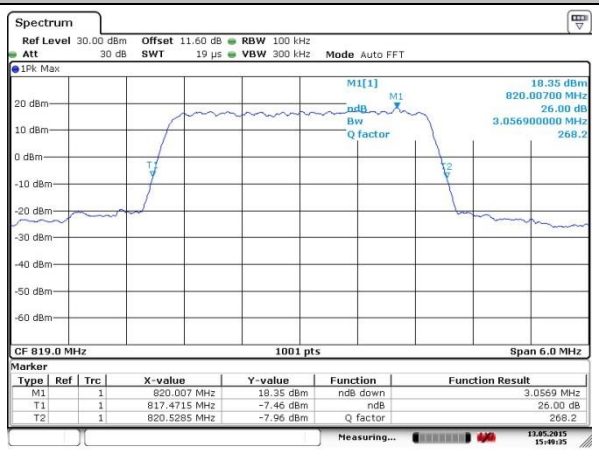
Lowest Channel / 3MHz / QPSK



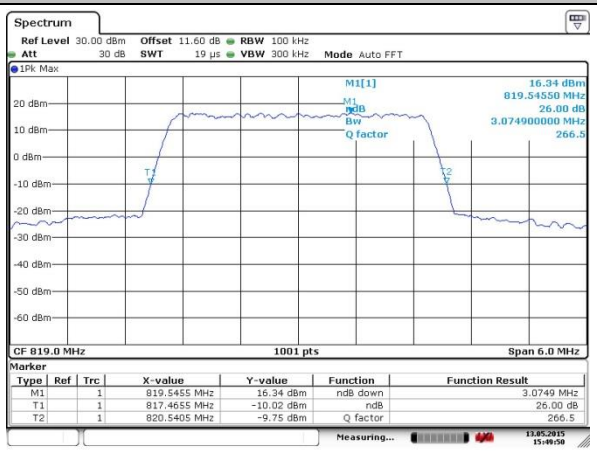
Lowest Channel / 3MHz / 16QAM



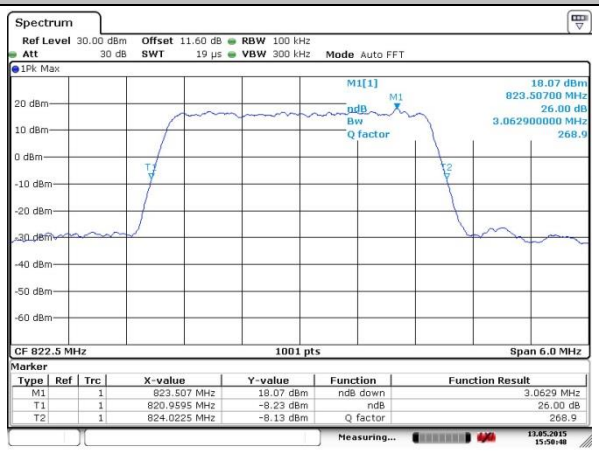
Middle Channel / 3MHz / QPSK



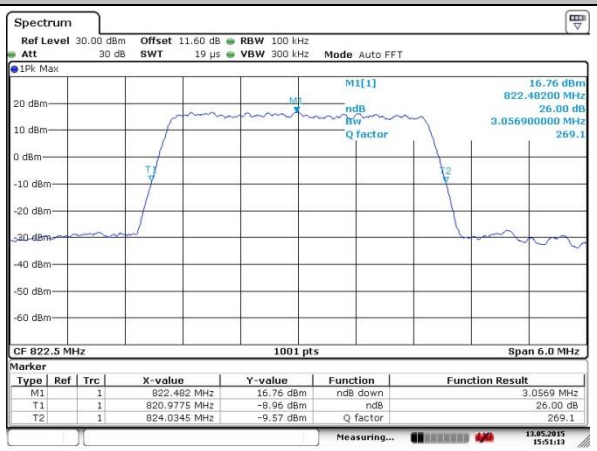
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

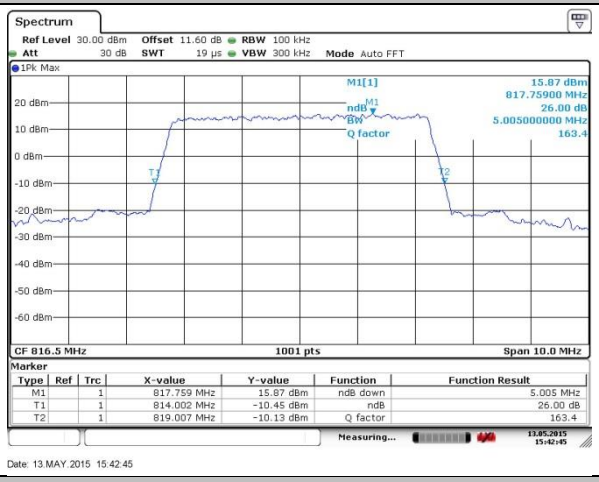


Highest Channel / 3MHz / 16QAM



LTE Band 26

Lowest Channel / 5MHz / QPSK



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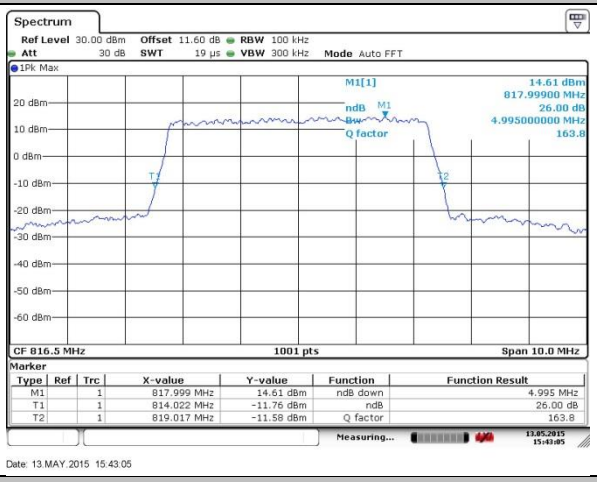
Lowest Channel / 5MHz / 16QAM



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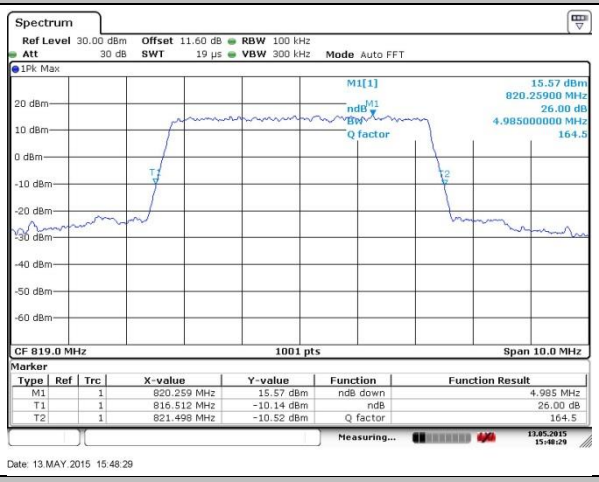
Middle Channel / 5MHz / QPSK



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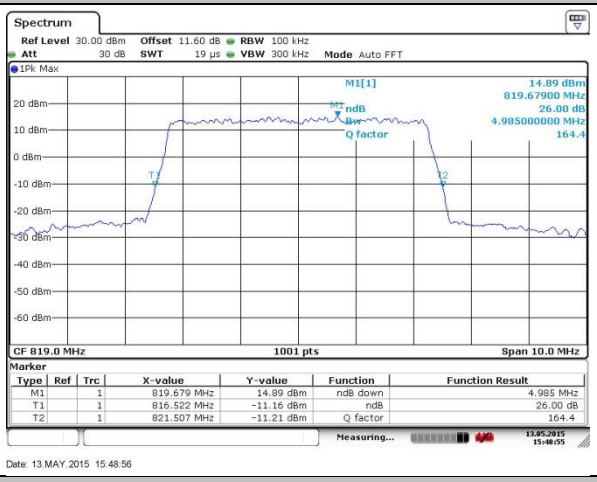
Middle Channel / 5MHz / 16QAM



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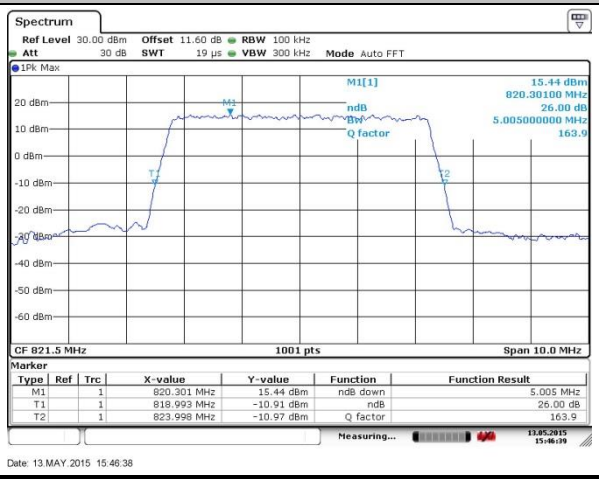
Highest Channel / 5MHz / QPSK



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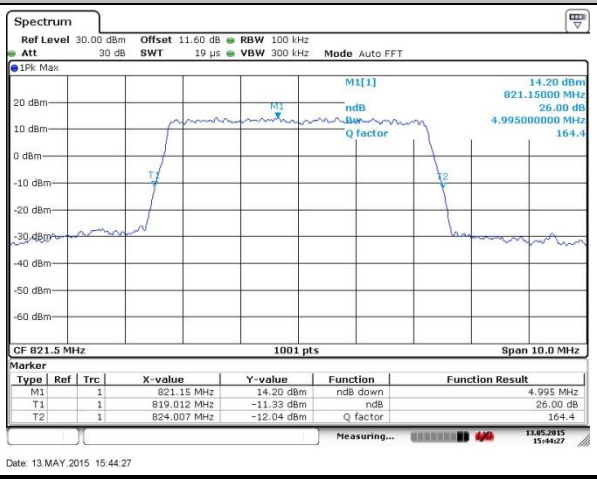
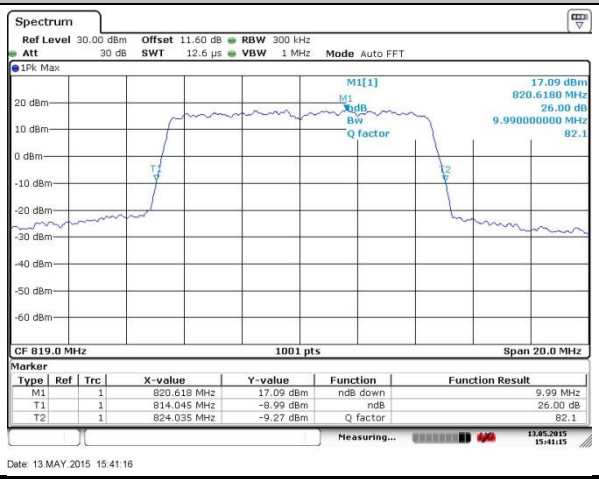
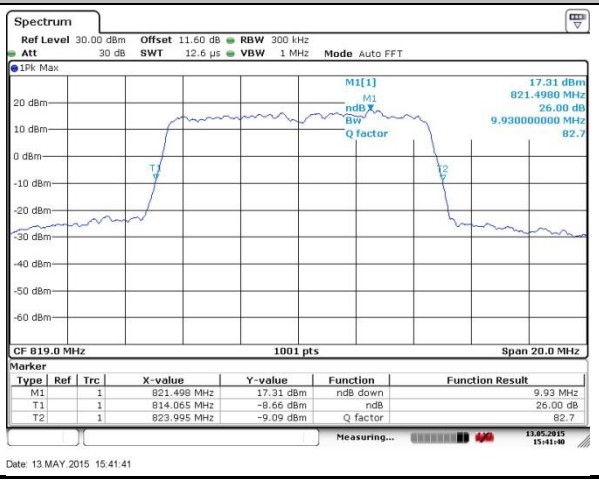
Highest Channel / 5MHz / 16QAM



Date: 13.MAY.2015 15:44:27

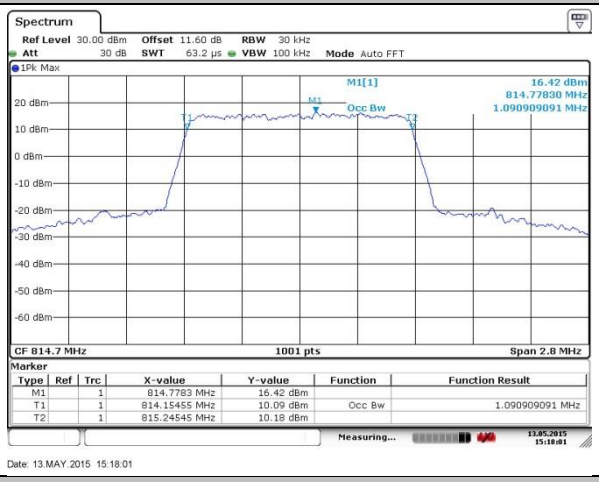
LTE Band 26	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

Occupied Bandwidth

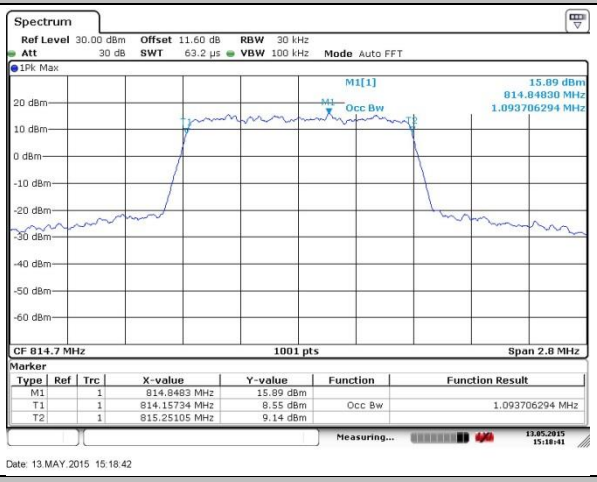
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.73	4.49	4.50	-	-	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.48	4.48	9.05	8.99	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.49	4.49	-	-	-	-	-	-

LTE Band 26

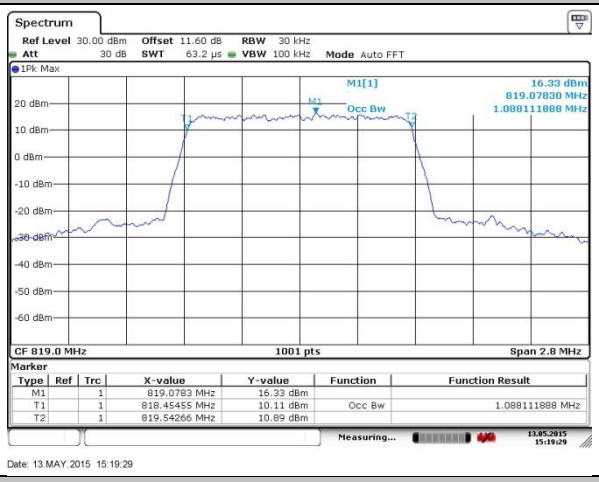
Lowest Channel / 1.4MHz / QPSK



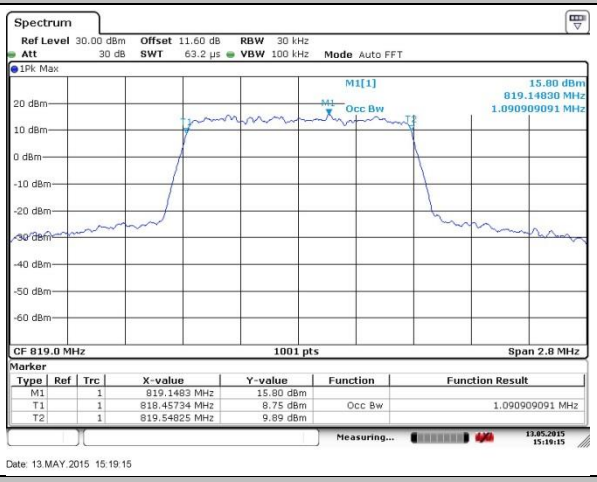
Lowest Channel / 1.4MHz / 16QAM



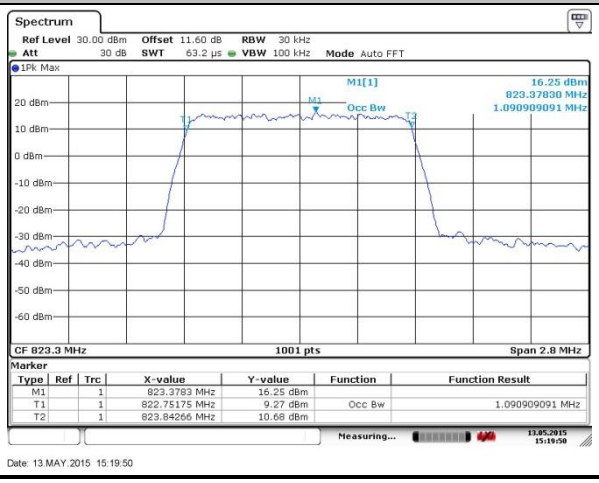
Middle Channel / 1.4MHz / QPSK



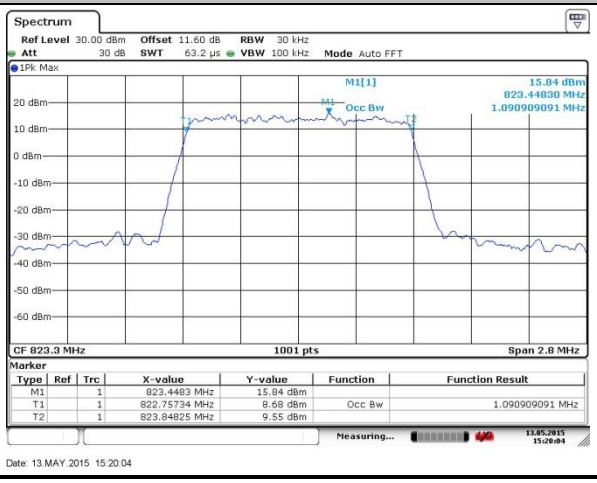
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

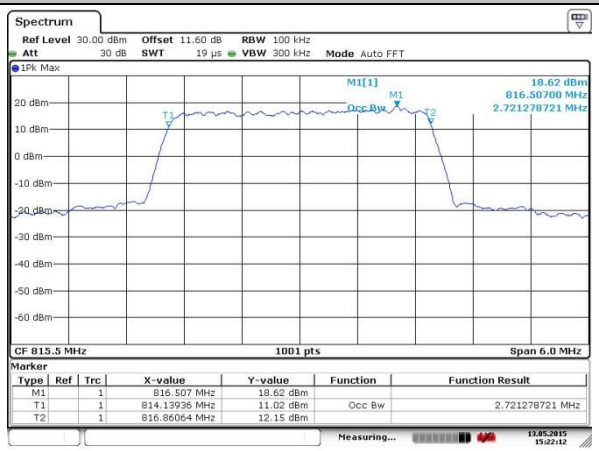


Highest Channel / 1.4MHz / 16QAM

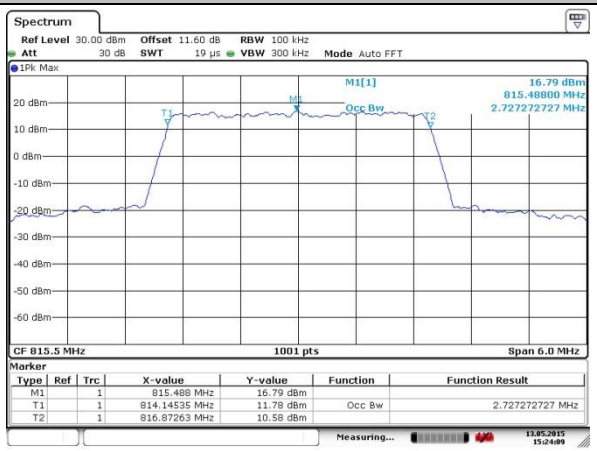


LTE Band 26

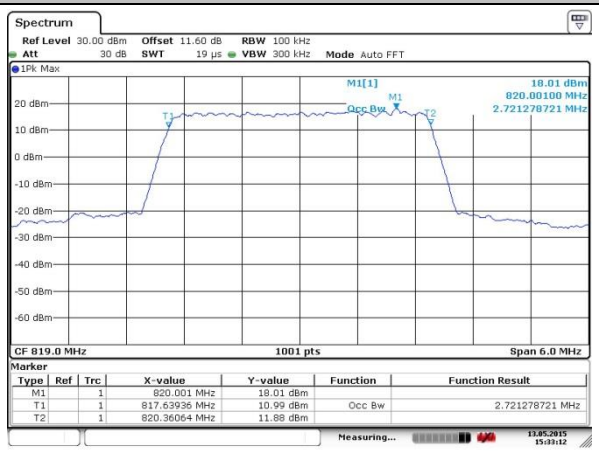
Lowest Channel / 3MHz / QPSK



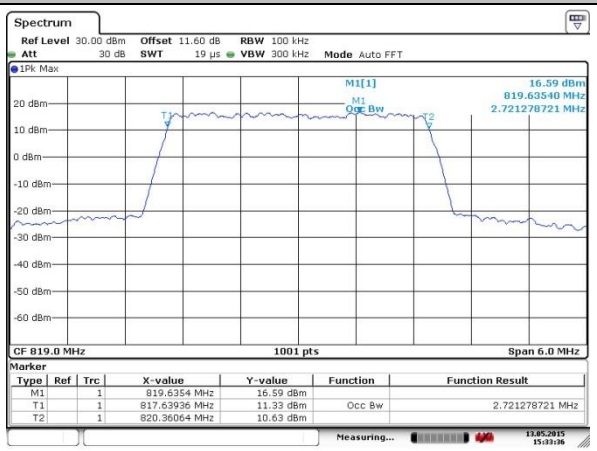
Lowest Channel / 3MHz / 16QAM



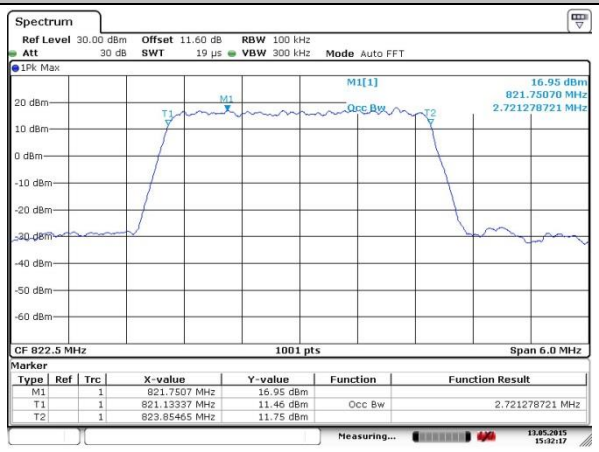
Middle Channel / 3MHz / QPSK



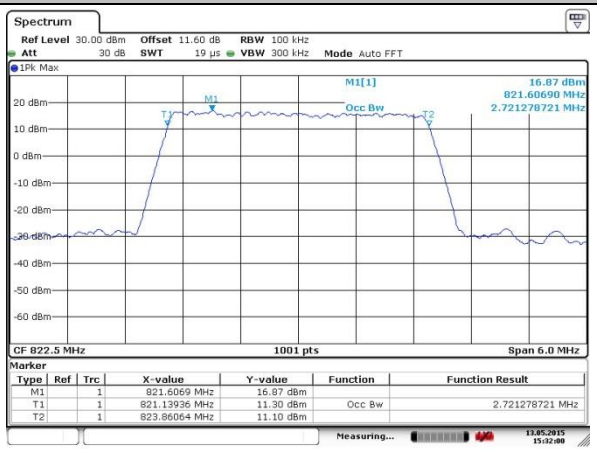
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

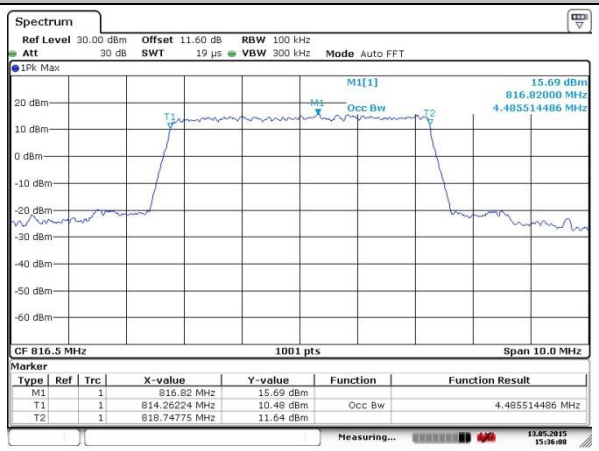


Highest Channel / 3MHz / 16QAM

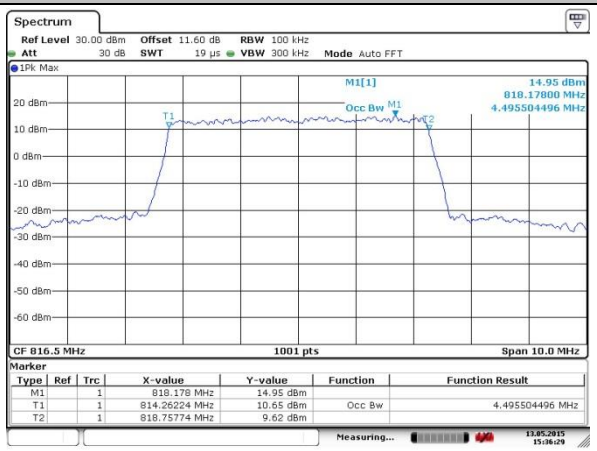


LTE Band 26

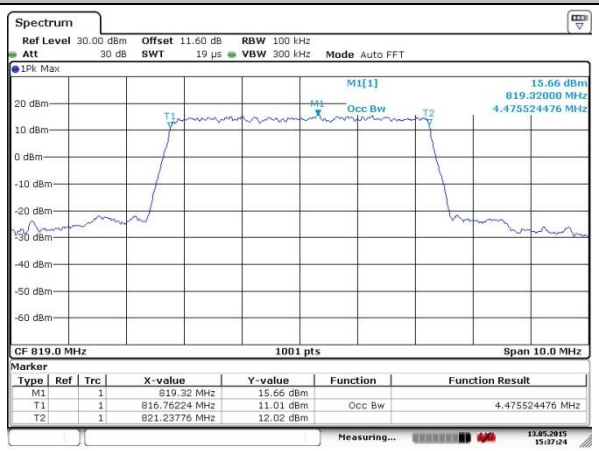
Lowest Channel / 5MHz / QPSK



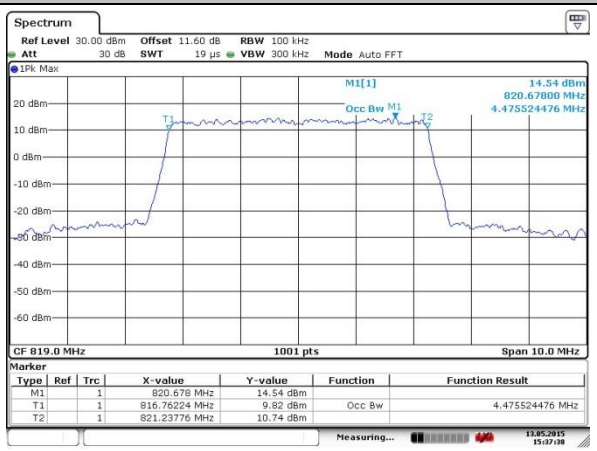
Lowest Channel / 5MHz / 16QAM



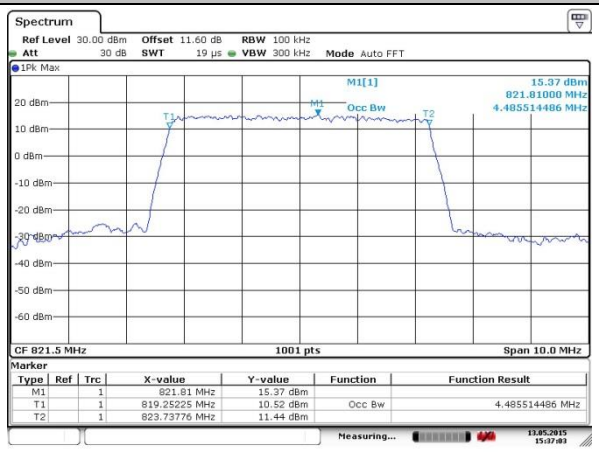
Middle Channel / 5MHz / QPSK



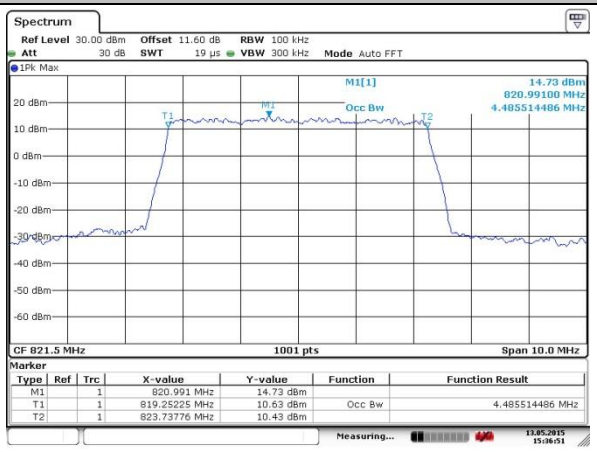
Middle Channel / 5MHz / 16QAM

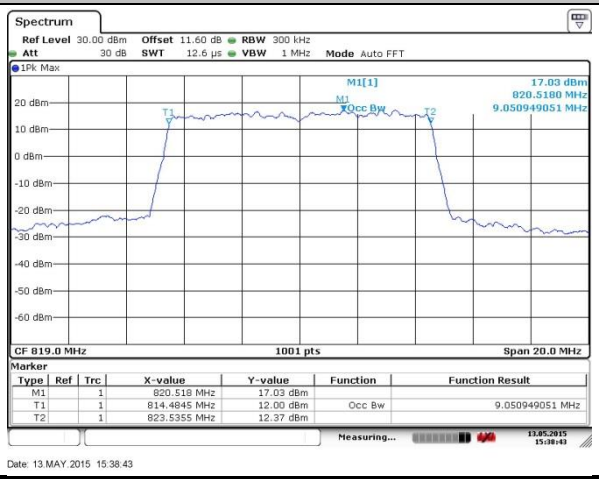
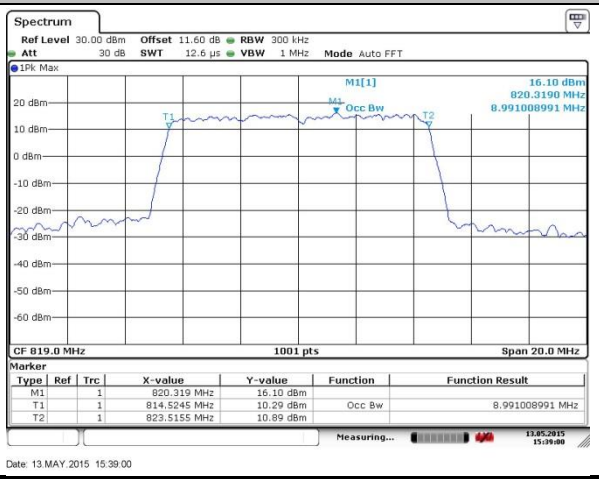


Highest Channel / 5MHz / QPSK

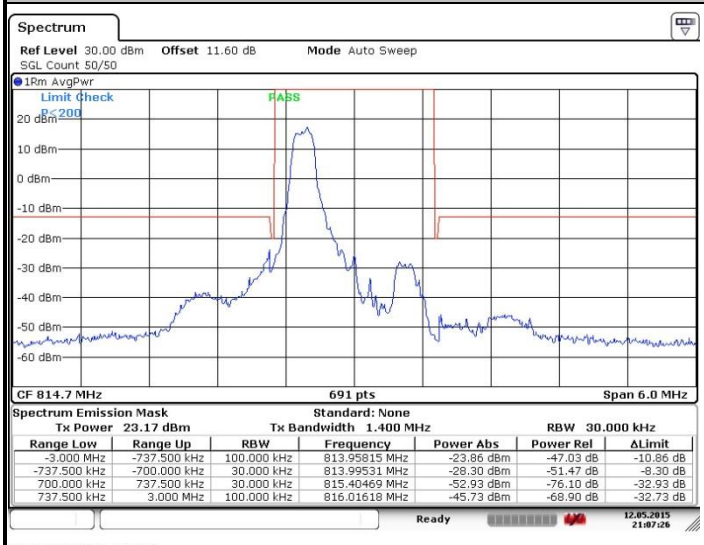
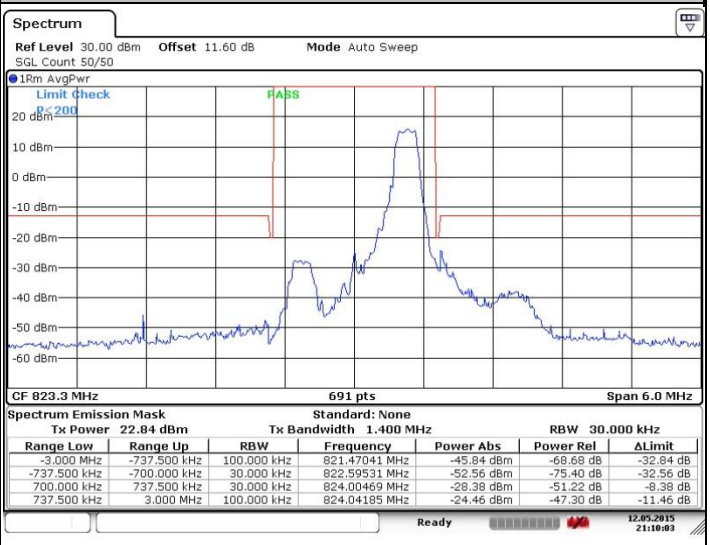


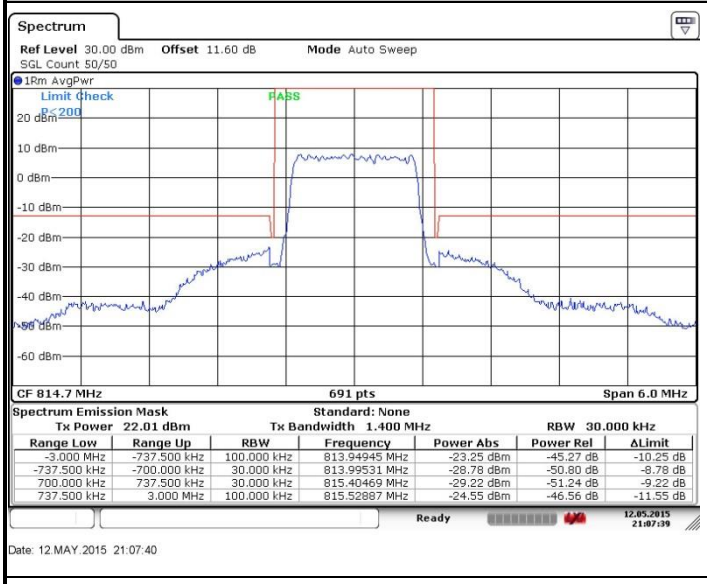
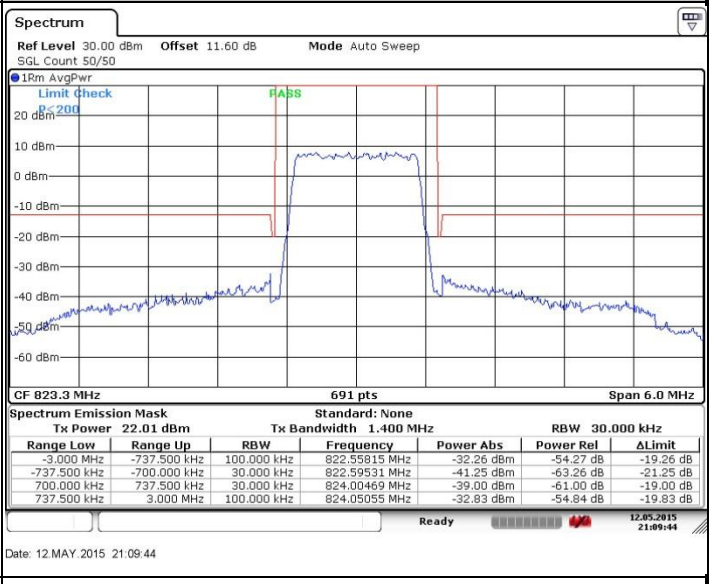
Highest Channel / 5MHz / 16QAM

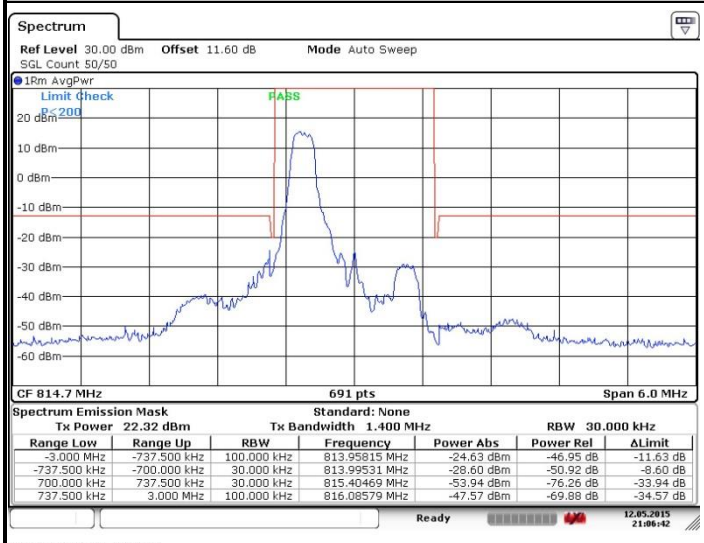
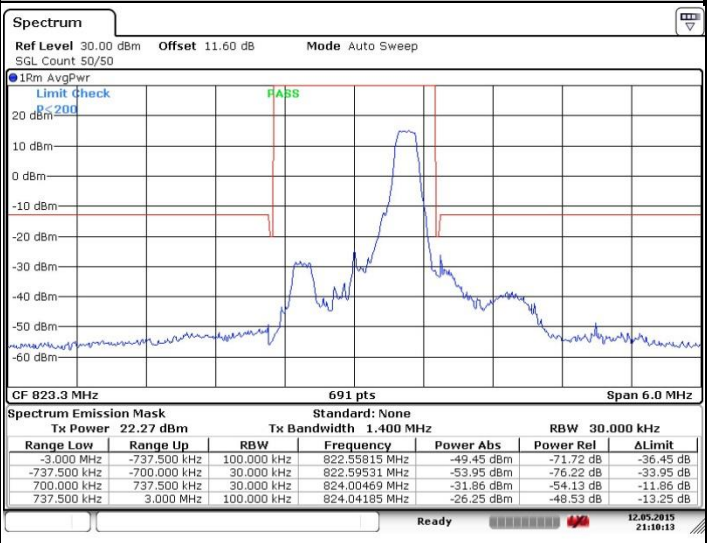


LTE Band 26	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

Emissions Mask

LTE Band 26 / 1.4MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**
	
Remark: Test Result(dBm) = Power Abs(dBm) + (1% of OBW/measured RBW) (dB) = Power Abs (dBm) +10*LOG(37.5kHz/30kHz)(dB) = Power Abs (dBm) +0.97 (dB) <1> Test result of 813.99531MHz: -28.30 (dBm) + 0.97 (dB)= -27.33 (dBm) <2> Test result of 815.40469MHz: -52.93 (dBm) + 0.97 (dB)= -51.96 (dBm)	**Remark:** Test Result(dBm) = Power Abs(dBm) + (1% of OBW/measured RBW) (dB) = Power Abs (dBm) +10*LOG(37.5kHz/30kHz)(dB) = Power Abs (dBm) +0.97 (dB) <1> Test result of 822.59531MHz: -52.56 (dBm) + 0.97 (dB)= -51.59 (dBm) <2> Test result of 824.00469MHz: -28.38 (dBm) + 0.97 (dB)= -27.41 (dBm)

LTE Band 26 / 1.4MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
Remark: Test Result(dBm) = Power Abs(dBm) + (1% of OBW/measured RBW) (dB) = Power Abs (dBm) +10*LOG(37.5kHz/30kHz)(dB) = Power Abs (dBm) +0.97 (dB) <1> Test result of 813.99531MHz: -28.78 (dBm) + 0.97 (dB)= -27.81 (dBm) <2> Test result of 815.40469MHz: -29.22 (dBm) + 0.97 (dB)= -28.25 (dBm)	**Remark:** Test Result(dBm) = Power Abs(dBm) + (1% of OBW/measured RBW) (dB) = Power Abs (dBm) +10*LOG(37.5kHz/30kHz)(dB) = Power Abs (dBm) +0.97 (dB) <1> Test result of 822.59531MHz: -41.25 (dBm) + 0.97 (dB)= -40.28 (dBm) <2> Test result of 824.00469MHz: -39.00 (dBm) + 0.97 (dB)= -38.03 (dBm)

LTE Band 26 / 1.4MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
 Date: 12.MAY.2015 21:06:42	 Date: 12.MAY.2015 21:10:13
Remark: Test Result(dBm) = Power Abs(dBm) + (1% of OBW/measured RBW) (dB) = Power Abs (dBm) +10*LOG(37.5kHz/30kHz)(dB) = Power Abs (dBm) +0.97 (dB) <1> Test result of 813.99531MHz: -28.60 (dBm) + 0.97 (dB)= -27.63 (dBm) <2> Test result of 815.40469MHz: -53.94 (dBm) + 0.97 (dB)= -52.97 (dBm)	**Remark:** Test Result(dBm) = Power Abs(dBm) + (1% of OBW/measured RBW) (dB) = Power Abs (dBm) +10*LOG(37.5kHz/30kHz)(dB) = Power Abs (dBm) +0.97 (dB) <1> Test result of 822.59531MHz: -53.95 (dBm) + 0.97 (dB)= -52.98 (dBm) <2> Test result of 824.00469MHz: -31.86 (dBm) + 0.97 (dB)= -30.89 (dBm)