LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB

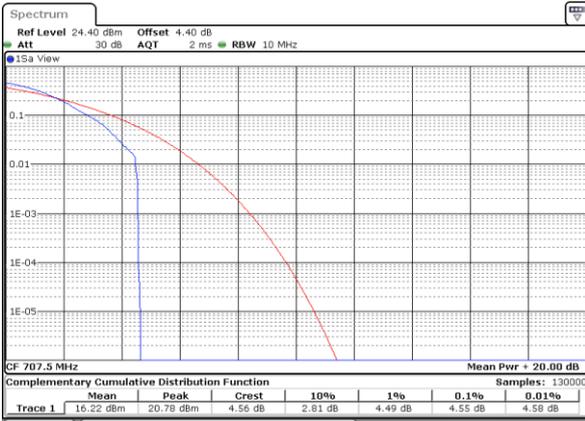|	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.51 dBm	21.15 dBm	4.65 dB	2.87 dB	4.61 dB	4.67 dB	4.67 dB
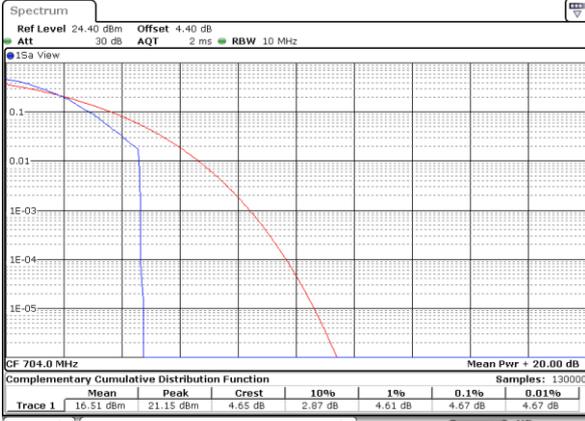
Date: 11.DEC.2018 18:23:50

Lowest Channel / Full RB

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.15 dBm	22.55 dBm	6.40 dB	3.07 dB	4.99 dB	5.94 dB	6.29 dB
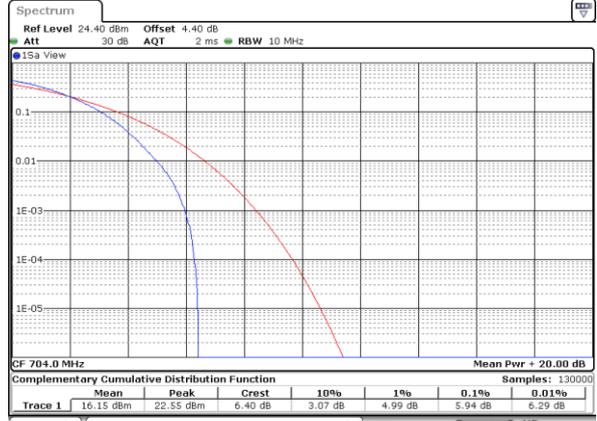
Date: 11.DEC.2018 18:23:58

Middle Channel / 1RB

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.22 dBm	20.78 dBm	4.56 dB	2.81 dB	4.49 dB	4.55 dB	4.58 dB

Date: 11.DEC.2018 18:24:16

Middle Channel / Full RB

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.07 dBm	22.71 dBm	6.63 dB	3.13 dB	5.04 dB	6.12 dB	6.49 dB
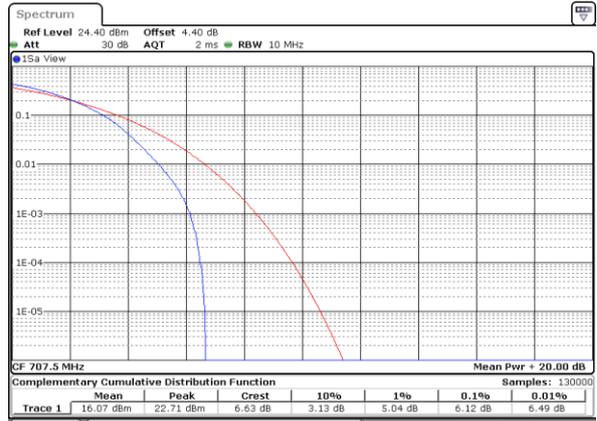
Date: 11.DEC.2018 18:24:07

Highest Channel / 1RB

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.22 dBm	21.02 dBm	4.79 dB	2.84 dB	4.67 dB	4.81 dB	4.84 dB
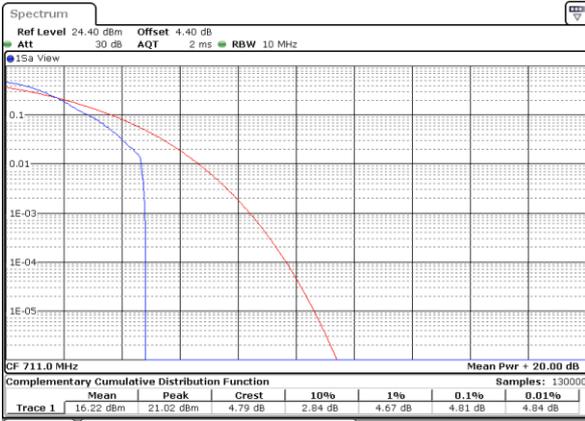
Date: 11.DEC.2018 18:24:25

Highest Channel / Full RB

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	16.18 dBm	22.85 dBm	6.67 dB	3.13 dB	5.01 dB	6.09 dB	6.52 dB

Date: 11.DEC.2018 18:24:33

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LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB

Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.56 dBm	24.91 dBm	4.35 dB	3.30 dB	4.32 dB	4.41 dB	4.43 dB

Date: 21.DEC.2018 16:01:42

Lowest Channel / Full RB

Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.24 dBm	26.41 dBm	6.17 dB	3.54 dB	5.51 dB	5.91 dB	6.09 dB

Date: 21.DEC.2018 16:02:06

Middle Channel / 1RB

Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	21.42 dBm	24.89 dBm	3.47 dB	2.64 dB	3.36 dB	3.39 dB	3.45 dB

Date: 21.DEC.2018 16:04:01

Middle Channel / Full RB
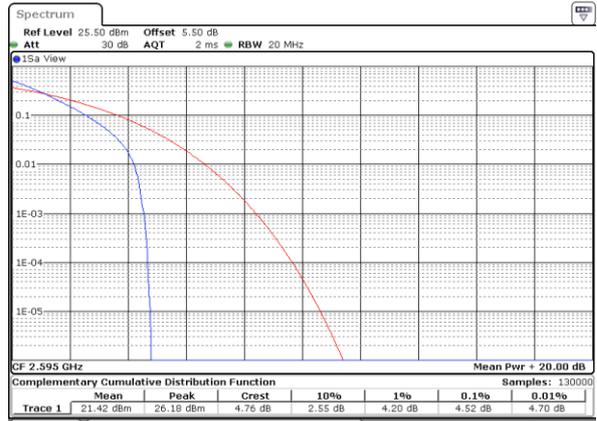
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	21.42 dBm	26.18 dBm	4.76 dB	2.55 dB	4.20 dB	4.52 dB	4.70 dB

Date: 21.DEC.2018 16:05:01

Highest Channel / 1RB

Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.22 dBm	24.88 dBm	4.66 dB	3.36 dB	4.49 dB	4.58 dB	4.64 dB

Date: 21.DEC.2018 16:07:04

Highest Channel / Full RB

Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.85 dBm	26.16 dBm	5.31 dB	2.84 dB	4.64 dB	5.04 dB	5.22 dB

Date: 21.DEC.2018 16:07:23

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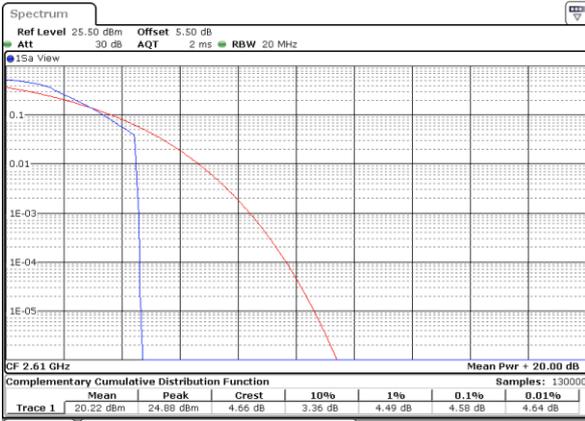
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB

Ref Level 25.50 dBm　Offset 5.50 dB
Att 30 dB　AQT 2 ms　RBW 20 MHz
1Sa View

CF 2.58 GHz　　　　　　　　　　　Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function　　Samples: 130000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.53 dBm	23.98 dBm	4.44 dB	3.04 dB	4.29 dB	4.32 dB	4.38 dB
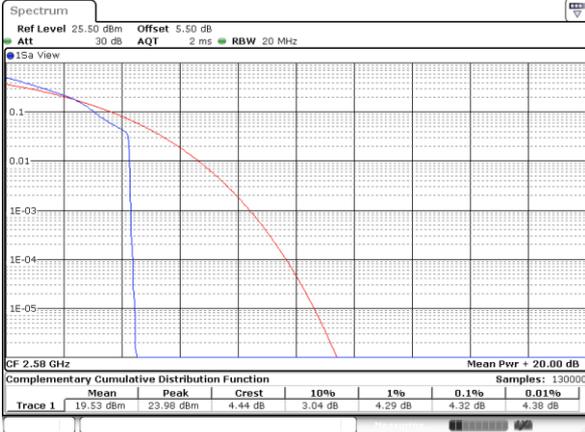
Date: 21.DEC.2018 16:02:41

Lowest Channel / Full RB

Ref Level 25.50 dBm　Offset 5.50 dB
Att 30 dB　AQT 2 ms　RBW 20 MHz
1Sa View

CF 2.58 GHz　　　　　　　　　　　Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function　　Samples: 130000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	18.14 dBm	25.00 dBm	6.87 dB	3.94 dB	5.80 dB	6.52 dB	6.75 dB
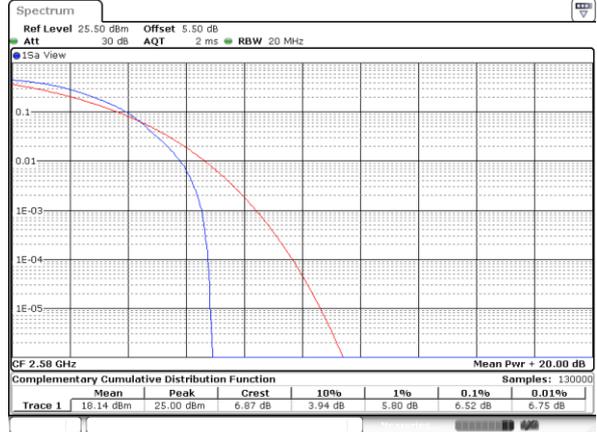
Date: 21.DEC.2018 16:02:24

Middle Channel / 1RB

Ref Level 25.50 dBm　Offset 5.50 dB
Att 30 dB　AQT 2 ms　RBW 20 MHz
1Sa View

CF 2.595 GHz　　　　　　　　　　Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function　　Samples: 130000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	18.85 dBm	23.51 dBm	4.66 dB	3.30 dB	4.52 dB	4.55 dB	4.64 dB

Date: 21.DEC.2018 16:05:39

Middle Channel / Full RB

Ref Level 25.50 dBm　Offset 5.50 dB
Att 30 dB　AQT 2 ms　RBW 20 MHz
1Sa View

CF 2.595 GHz　　　　　　　　　　Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function　　Samples: 130000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	18.07 dBm	24.95 dBm	6.88 dB	4.03 dB	5.91 dB	6.61 dB	6.84 dB
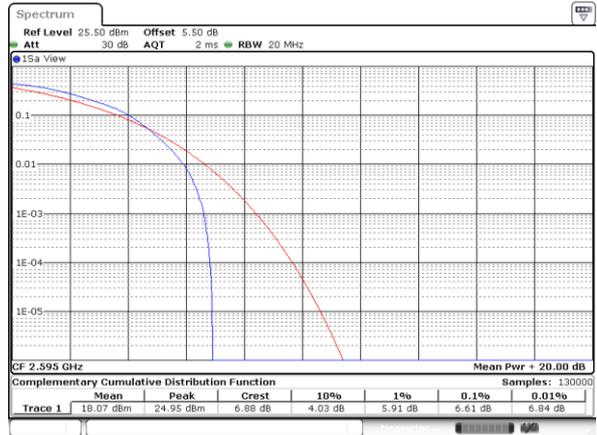
Date: 21.DEC.2018 16:05:26

Highest Channel / 1RB

Ref Level 25.50 dBm　Offset 5.50 dB
Att 30 dB　AQT 2 ms　RBW 20 MHz
1Sa View

CF 2.61 GHz　　　　　　　　　　　Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function　　Samples: 130000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.00 dBm	23.66 dBm	4.66 dB	3.30 dB	4.61 dB	4.70 dB	4.72 dB
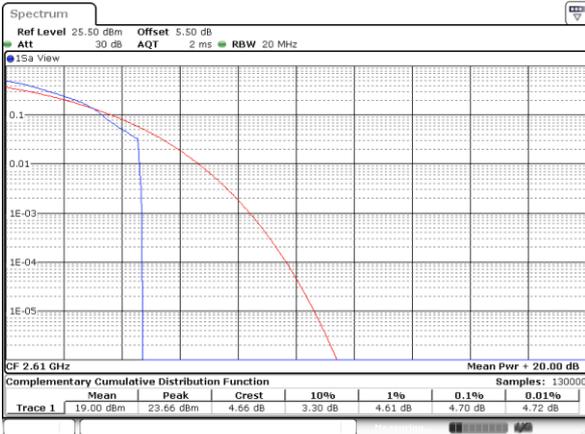
Date: 21.DEC.2018 16:08:19

Highest Channel / Full RB

Ref Level 25.50 dBm　Offset 5.50 dB
Att 30 dB　AQT 2 ms　RBW 20 MHz
1Sa View

CF 2.61 GHz　　　　　　　　　　　Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function　　Samples: 130000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	18.72 dBm	24.92 dBm	6.20 dB	3.45 dB	5.28 dB	5.94 dB	6.12 dB

Date: 21.DEC.2018 16:07:39

LTE Band 38 / 20MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**

Date: 21.DEC.2018 16:03:06

Date: 21.DEC.2018 16:03:45

Middle Channel / 1RB	**Middle Channel / Full RB**

Date: 21.DEC.2018 16:06:11
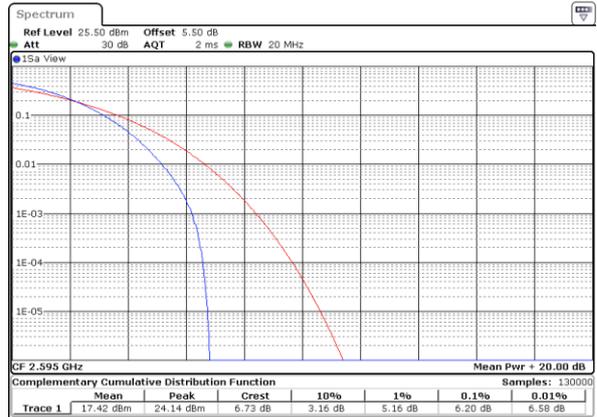
Date: 21.DEC.2018 16:06:25

Highest Channel / 1RB	**Highest Channel / Full RB**

Date: 21.DEC.2018 16:08:44

Date: 21.DEC.2018 16:08:57

26dB Bandwidth

Mode	LTE Band 2 : 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	1.2252	1.2168	3.027	2.991	4.865	4.825	9.75	9.75	14.386	14.446	20.18	20.18
Middle CH	1.228	1.2168	3.033	3.003	4.875	4.925	9.77	9.69	14.535	14.505	20.1	20.1
Highest CH	1.2308	1.2112	3.009	3.021	4.855	4.895	9.73	9.73	14.535	14.326	20.1	20.22
BW	**1.4MHz**		**3MHz**		**5MHz**		**10MHz**		**15MHz**		**20MHz**	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.214		3.027		4.925		9.69		14.356		20.14	
Middle CH	1.2196		3.0569		4.895		9.89		14.625		20.06	
Highest CH	1.228		3.021		4.865		9.91		14.356		20.14	

Mode	LTE Band 4 : 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	1.2336	1.228	3.021	2.991	4.905	4.935	9.83	9.71	14.416	14.296	20.14	20.22
Middle CH	1.2727	1.2336	3.1828	3.015	4.935	4.885	9.87	9.91	14.416	14.565	20.30	20.3
Highest CH	1.2224	1.2364	3.021	3.0629	4.855	4.855	9.71	9.77	14.505	14.416	20.22	20.22
BW	**1.4MHz**		**3MHz**		**5MHz**		**10MHz**		**15MHz**		**20MHz**	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.2252		3.021		4.895		9.75		14.386		20.26	
Middle CH	1.2252		3.027		4.905		9.61		14.326		20.22	
Highest CH	1.2336		2.997		4.965		9.71		14.476		20.14	

Mode	LTE Band 5 : 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	1.2224	1.2224	3.015	2.985	4.865	4.865	9.77	9.85	-	-	-	-
Middle CH	1.2336	1.2308	3.021	3.0569	4.915	4.885	9.71	9.93	-	-	-	-
Highest CH	1.2252	1.2196	3.0509	3.0509	4.965	4.885	9.81	9.75	-	-	-	-
BW	**1.4MHz**		**3MHz**		**5MHz**		**10MHz**		**15MHz**		**20MHz**	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.2168		2.973		4.875		9.91		-		-	
Middle CH	1.228		2.997		4.765		9.77		-		-	
Highest CH	1.242		2.997		4.915		9.89		-		-	

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Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.875	4.825	9.73	9.75	14.206	14.715	20.14	20.30
Middle CH	-	-	-	-	4.895	4.935	9.91	9.75	14.535	14.386	20.34	20.06
Highest CH	-	-	-	-	4.885	4.885	9.63	9.71	14.146	14.176	20.22	20.18
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.895		9.71		14.476		20.22	
Middle CH	-		-		4.875		9.81		14.296		20.26	
Highest CH	-		-		4.815		9.77		14.236		20.10	

Mode	LTE Band 12 : 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	1.2168	1.2168	3.021	3.0569	4.845	4.855	9.85	9.81	-	-	-	-
Middle CH	1.2364	1.214	3.015	3.015	4.935	4.875	9.75	9.79	-	-	-	-
Highest CH	1.2336	1.2336	3.027	2.973	4.865	4.935	9.71	9.81	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.2196		3.015		4.855		9.77		-		-	
Middle CH	1.2196		3.0509		4.885		9.75		-		-	
Highest CH	1.2252		3.003		4.945		9.73		-		-	

Mode	LTE Band 38 : 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	-	-	-	-	4.885	4.915	9.85	9.67	14.685	14.386	20.14	20.10
Middle CH	-	-	-	-	4.905	4.805	9.69	9.75	14.266	14.116	20.06	20.34
Highest CH	-	-	-	-	4.735	4.975	9.75	9.67	14.296	14.505	20.18	20.26
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.815		9.67		14.416		20.18	
Middle CH	-		-		4.895		9.65		14.266		20.14	
Highest CH	-		-		4.875		9.63		14.116		20.14	

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For CA

Mode	LTE Band 7 : 26dB BW(MHz)			
	QPSK			
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.91	-	25.375	30.689
Middle CH	30.03	-	25.375	30.45
Highest CH	29.97	-	25.475	30.689
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	35.035	30.21	35.105	39.88
Middle CH	34.895	30.21	35.105	40.04
Highest CH	35.035	30.09	34.895	39.96

Mode	LTE Band 7 : 26dB BW(MHz)			
	16QAM			
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.91	-	25.275	30.689
Middle CH	29.85	-	25.325	30.569
Highest CH	29.85	-	25.375	30.629
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.895	29.97	35.105	40.04
Middle CH	34.965	30.03	35.035	39.80
Highest CH	34.965	30.21	35.035	39.88

Mode	LTE Band 7 : 26dB BW(MHz)			
	64QAM			
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.85	-	25.475	30.689
Middle CH	29.85	-	25.425	30.629
Highest CH	29.79	-	25.475	30.749
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.825	30.03	35.035	39.88
Middle CH	34.825	30.03	34.965	39.88
Highest CH	34.965	30.09	35.035	39.88

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Mode	LTE Band 38 : 26dB BW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	30.629	39.96	30.509	39.96
Middle CH	30.569	39.88	30.629	39.96
Highest CH	30.629	39.80	30.629	39.88

Mode	LTE Band 38 : 26dB BW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	30.569	39.96	-	-
Middle CH	30.629	39.72	-	-
Highest CH	30.749	39.80	-	-

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LTE Band 2

Lowest Channel / 1.4MHz / QPSK	Lowest Channel / 1.4MHz / 16QAM
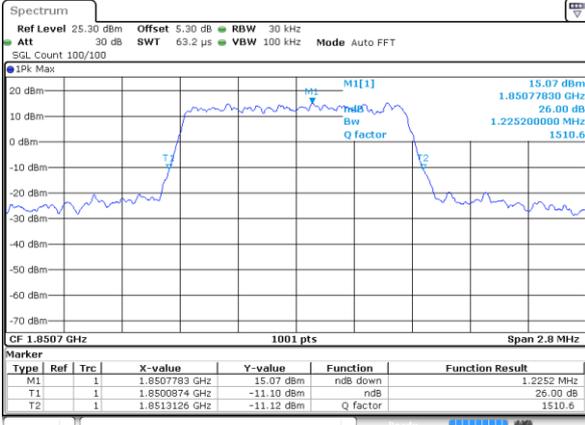
Date: 4.DEC.2018 09:28:02
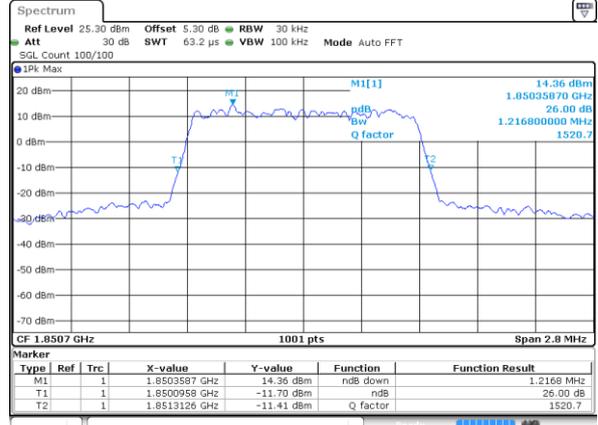
Date: 4.DEC.2018 09:28:15

Middle Channel / 1.4MHz / QPSK	Middle Channel / 1.4MHz / 16QAM
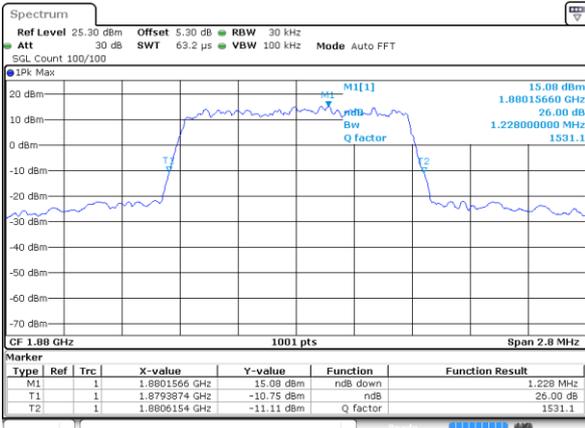
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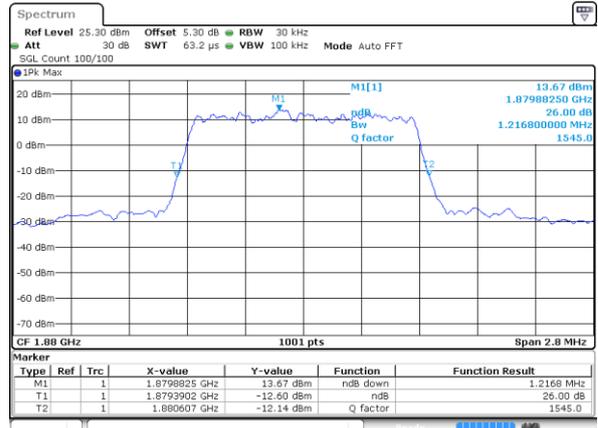
Date: 4.DEC.2018 09:44:17

Highest Channel / 1.4MHz / QPSK	Highest Channel / 1.4MHz / 16QAM

Date: 4.DEC.2018 09:46:40

Date: 4.DEC.2018 09:46:51

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LTE Band 2	
Lowest Channel / 3MHz / QPSK	**Lowest Channel / 3MHz / 16QAM**

Lowest Channel / 3MHz / QPSK — CF 1.8515 GHz, Span 6.0 MHz
M1[1] 16.04 dBm, 1.85141610 GHz, ndB 26.00 dB, Bw 3.027000000 MHz, Q factor 611.6

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.8514161 GHz	16.04 dBm	ndB down	3.027 MHz
T1		1	1.8499955 GHz	-9.87 dBm	ndB	26.00 dB
T2		1	1.8530225 GHz	-10.17 dBm	Q factor	611.6

Date: 4.DEC.2018 09:53:45

Lowest Channel / 3MHz / 16QAM — CF 1.8515 GHz, Span 6.0 MHz
M1[1] 15.44 dBm, 1.85149400 GHz, ndB 26.00 dB, Bw 2.991000000 MHz, Q factor 619.0

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.851494 GHz	15.44 dBm	ndB down	2.991 MHz
T1		1	1.8499775 GHz	-10.85 dBm	ndB	26.00 dB
T2		1	1.8529685 GHz	-10.77 dBm	Q factor	619.0
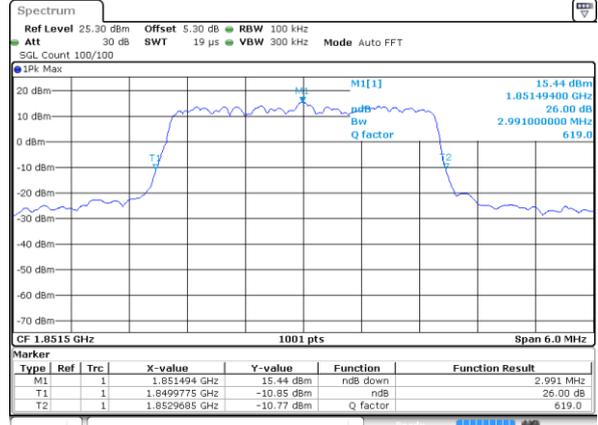
Date: 4.DEC.2018 09:53:56

Middle Channel / 3MHz / QPSK	**Middle Channel / 3MHz / 16QAM**

Middle Channel / 3MHz / QPSK — CF 1.88 GHz, Span 6.0 MHz
M1[1] 18.07 dBm, 1.88100100 GHz, ndB 26.00 dB, Bw 3.033000000 MHz, Q factor 620.2

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.881001 GHz	18.07 dBm	ndB down	3.033 MHz
T1		1	1.8784655 GHz	-8.13 dBm	ndB	26.00 dB
T2		1	1.8814985 GHz	-8.15 dBm	Q factor	620.2
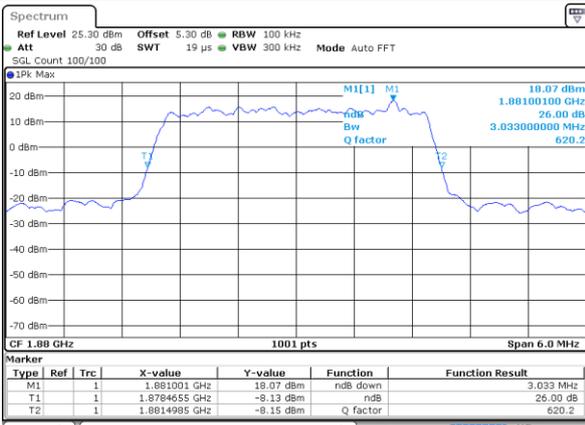
Date: 4.DEC.2018 10:00:50

Middle Channel / 3MHz / 16QAM — CF 1.88 GHz, Span 6.0 MHz
M1[1] 14.84 dBm, 1.88095300 GHz, ndB 26.00 dB, Bw 3.003000000 MHz, Q factor 626.4

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.880953 GHz	14.84 dBm	ndB down	3.003 MHz
T1		1	1.8785195 GHz	-11.02 dBm	ndB	26.00 dB
T2		1	1.8815225 GHz	-10.91 dBm	Q factor	626.4

Date: 4.DEC.2018 10:01:01

Highest Channel / 3MHz / QPSK	**Highest Channel / 3MHz / 16QAM**

Highest Channel / 3MHz / QPSK — CF 1.9085 GHz, Span 6.0 MHz
M1[1] 16.05 dBm, 1.90808640 GHz, ndB 26.00 dB, Bw 3.009000000 MHz, Q factor 634.1

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.9080864 GHz	16.05 dBm	ndB down	3.009 MHz
T1		1	1.9069895 GHz	-10.19 dBm	ndB	26.00 dB
T2		1	1.9099985 GHz	-10.20 dBm	Q factor	634.1

Date: 4.DEC.2018 10:03:23

Highest Channel / 3MHz / 16QAM — CF 1.9085 GHz, Span 6.0 MHz
M1[1] 14.76 dBm, 1.90880570 GHz, ndB 26.00 dB, Bw 3.021000000 MHz, Q factor 631.9

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.9088057 GHz	14.76 dBm	ndB down	3.021 MHz
T1		1	1.9069775 GHz	-11.35 dBm	ndB	26.00 dB
T2		1	1.9099985 GHz	-11.04 dBm	Q factor	631.9

Date: 4.DEC.2018 10:03:34

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LTE Band 2	
Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**

Lowest Channel / 5MHz / QPSK

Spectrum
Ref Level 25.30 dBm   Offset 5.30 dB ● RBW 100 kHz
Att   30 dB   SWT   19 µs ● VBW 300 kHz   Mode Auto FFT
SGL Count 100/100
● 1Pk Max

M1[1]   14.30 dBm
M1   1.85338900 GHz
ndB   26.00 dB
Bw   4.865000000 MHz
Q factor   381.0

CF 1.8525 GHz   1001 pts   Span 10.0 MHz

Marker
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.853389 GHz	14.30 dBm	ndB down	4.865 MHz
T1		1	1.850062 GHz	-11.71 dBm	ndB	26.00 dB
T2		1	1.854928 GHz	-11.38 dBm	Q factor	381.0

Date: 4.DEC.2018 10:10:28

Lowest Channel / 5MHz / 16QAM

Spectrum
Ref Level 25.30 dBm   Offset 5.30 dB ● RBW 100 kHz
Att   30 dB   SWT   19 µs ● VBW 300 kHz   Mode Auto FFT
SGL Count 100/100
● 1Pk Max

M1[1]   11.78 dBm
M1   1.85090200 GHz
ndB   26.00 dB
Bw   4.825000000 MHz
Q factor   383.6

CF 1.8525 GHz   1001 pts   Span 10.0 MHz

Marker
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.850902 GHz	11.78 dBm	ndB down	4.825 MHz
T1		1	1.850092 GHz	-14.53 dBm	ndB	26.00 dB
T2		1	1.854918 GHz	-14.03 dBm	Q factor	383.6

Date: 4.DEC.2018 10:10:39

Middle Channel / 5MHz / QPSK

Spectrum
Ref Level 25.30 dBm   Offset 5.30 dB ● RBW 100 kHz
Att   30 dB   SWT   19 µs ● VBW 300 kHz   Mode Auto FFT
SGL Count 100/100
● 1Pk Max

M1[1]   14.90 dBm
M1   1.87880100 GHz
ndB   26.00 dB
Bw   4.875000000 MHz
Q factor   385.4

CF 1.88 GHz   1001 pts   Span 10.0 MHz

Marker
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.878801 GHz	14.90 dBm	ndB down	4.875 MHz
T1		1	1.877572 GHz	-11.34 dBm	ndB	26.00 dB
T2		1	1.882448 GHz	-11.51 dBm	Q factor	385.4

Date: 4.DEC.2018 10:17:33

Middle Channel / 5MHz / 16QAM

Spectrum
Ref Level 25.30 dBm   Offset 5.30 dB ● RBW 100 kHz
Att   30 dB   SWT   19 µs ● VBW 300 kHz   Mode Auto FFT
SGL Count 100/100
● 1Pk Max

M1[1]   12.05 dBm
M1   1.87937100 GHz
ndB   26.00 dB
Bw   4.925000000 MHz
Q factor   381.6

CF 1.88 GHz   1001 pts   Span 10.0 MHz

Marker
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.879371 GHz	12.05 dBm	ndB down	4.925 MHz
T1		1	1.877562 GHz	-13.82 dBm	ndB	26.00 dB
T2		1	1.882488 GHz	-14.30 dBm	Q factor	381.6

Date: 4.DEC.2018 13:26:57

Highest Channel / 5MHz / QPSK

Spectrum
Ref Level 25.30 dBm   Offset 5.30 dB ● RBW 100 kHz
Att   30 dB   SWT   19 µs ● VBW 300 kHz   Mode Auto FFT
SGL Count 100/100
● 1Pk Max

M1[1]   14.08 dBm
M1   1.90839900 GHz
ndB   26.00 dB
Bw   4.855000000 MHz
Q factor   393.1

CF 1.9075 GHz   1001 pts   Span 10.0 MHz

Marker
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.908399 GHz	14.08 dBm	ndB down	4.855 MHz
T1		1	1.905092 GHz	-12.05 dBm	ndB	26.00 dB
T2		1	1.909948 GHz	-11.95 dBm	Q factor	393.1

Date: 4.DEC.2018 10:20:07

Highest Channel / 5MHz / 16QAM

Spectrum
Ref Level 25.30 dBm   Offset 5.30 dB ● RBW 100 kHz
Att   30 dB   SWT   19 µs ● VBW 300 kHz   Mode Auto FFT
SGL Count 100/100
● 1Pk Max

M1[1]   12.39 dBm
M1   1.90608100 GHz
ndB   26.00 dB
Bw   4.895000000 MHz
Q factor   389.4

CF 1.9075 GHz   1001 pts   Span 10.0 MHz

Marker
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.906081 GHz	12.39 dBm	ndB down	4.895 MHz
T1		1	1.905052 GHz	-13.38 dBm	ndB	26.00 dB
T2		1	1.909948 GHz	-13.29 dBm	Q factor	389.4

Date: 4.DEC.2018 10:20:18

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LTE Band 2	
Lowest Channel / 10MHz / QPSK	**Lowest Channel / 10MHz / 16QAM**
Date: 4.DEC.2018 10:27:13	Date: 4.DEC.2018 10:27:23
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
Date: 4.DEC.2018 10:34:18	Date: 4.DEC.2018 10:34:29
Highest Channel / 10MHz / QPSK	**Highest Channel / 10MHz / 16QAM**
Date: 4.DEC.2018 10:36:52	Date: 4.DEC.2018 10:37:03
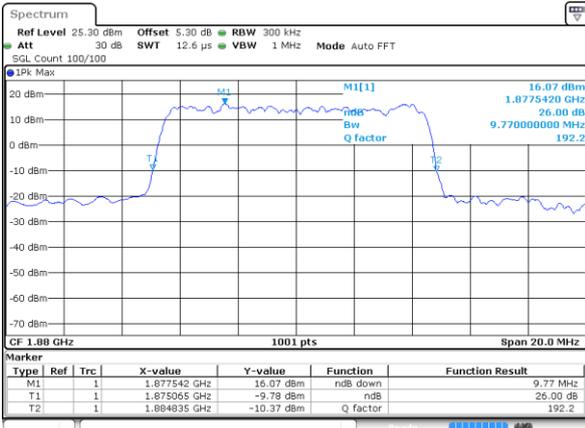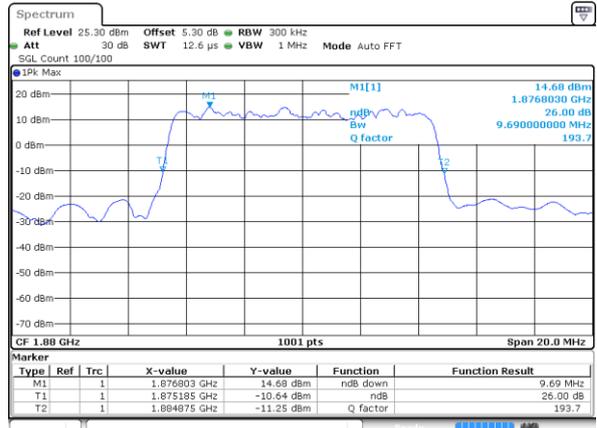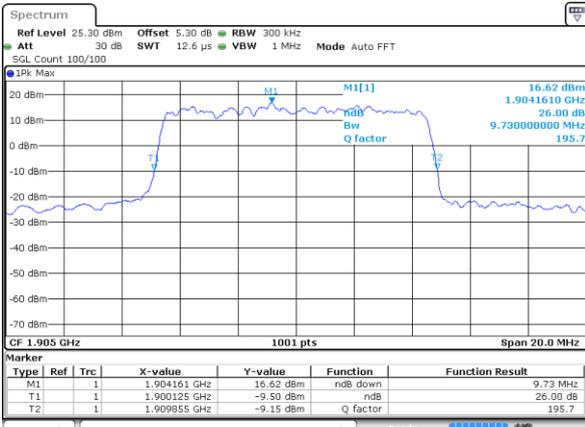
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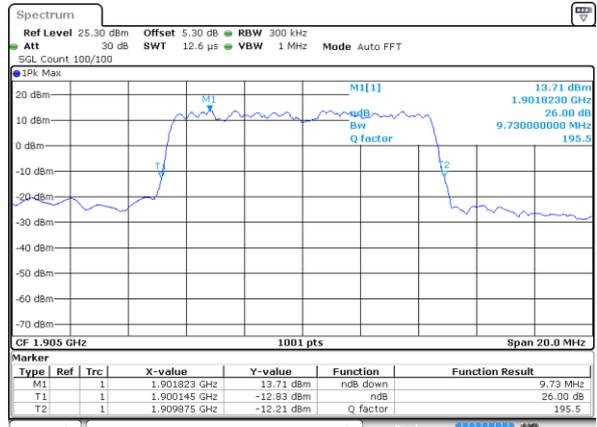
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Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
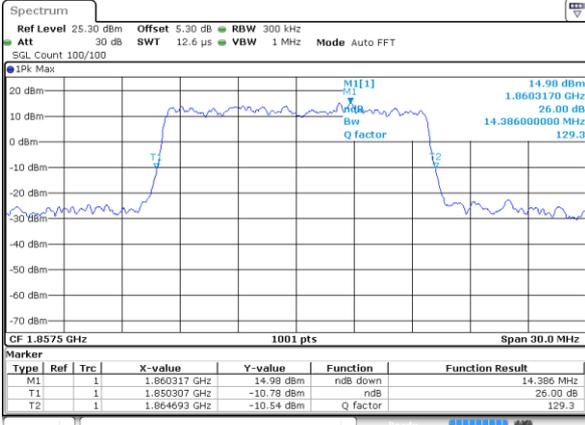
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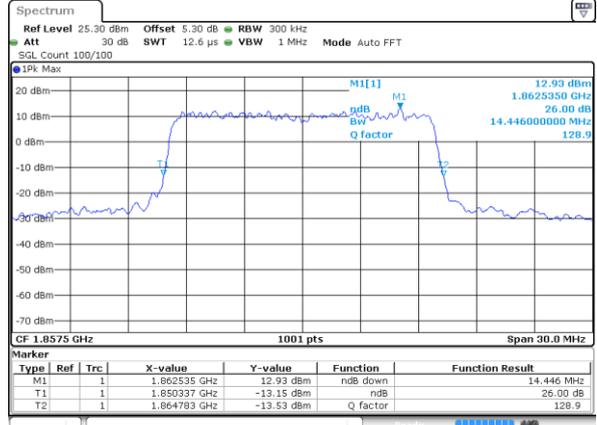
Date: 4.DEC.2018 10:44:08

Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
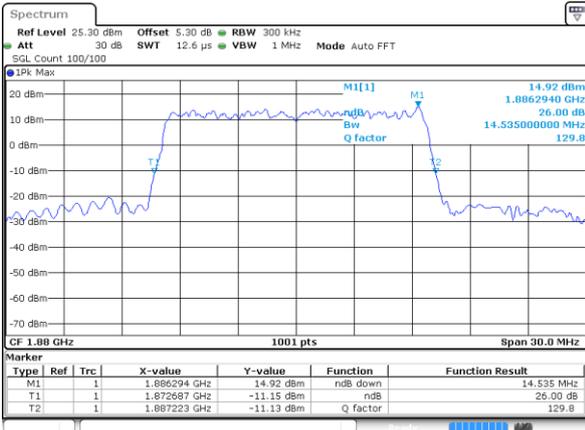
Date: 4.DEC.2018 10:51:03

Date: 4.DEC.2018 13:25:34

Highest Channel / 15MHz / QPSK	**Highest Channel / 15MHz / 16QAM**

Date: 4.DEC.2018 10:53:37

Date: 4.DEC.2018 10:53:47

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LTE Band 2

Lowest Channel / 20MHz / QPSK
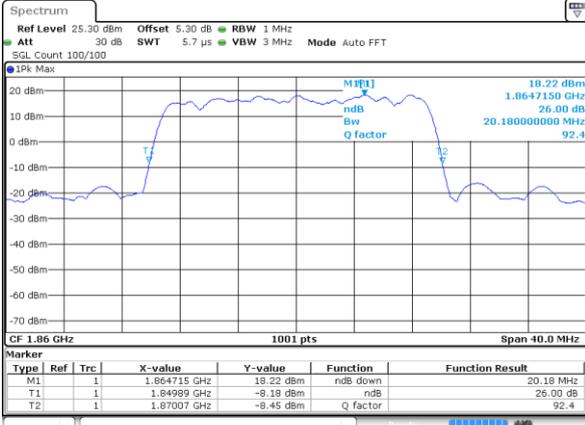
Date: 4.DEC.2018 11:00:42

Lowest Channel / 20MHz / 16QAM
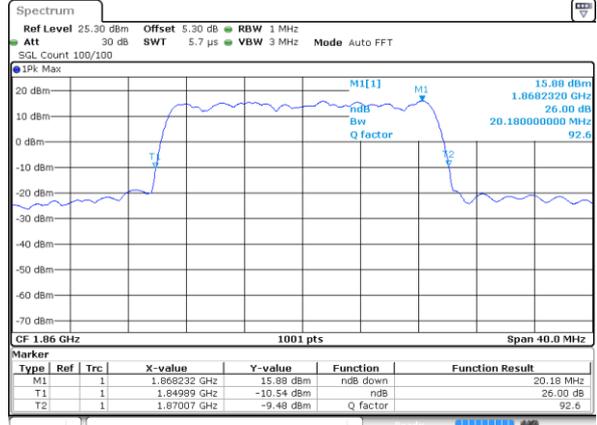
Date: 4.DEC.2018 11:00:53

Middle Channel / 20MHz / QPSK
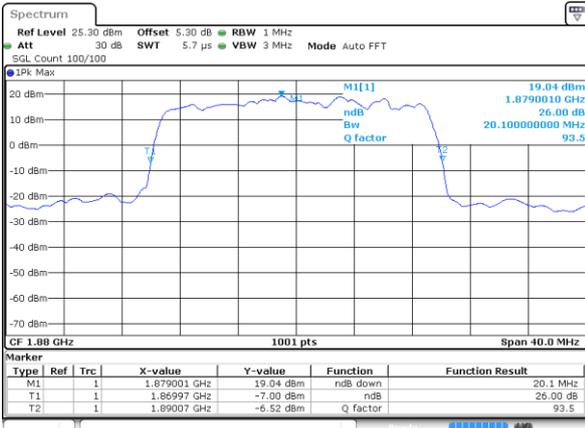
Date: 4.DEC.2018 11:07:48

Middle Channel / 20MHz / 16QAM
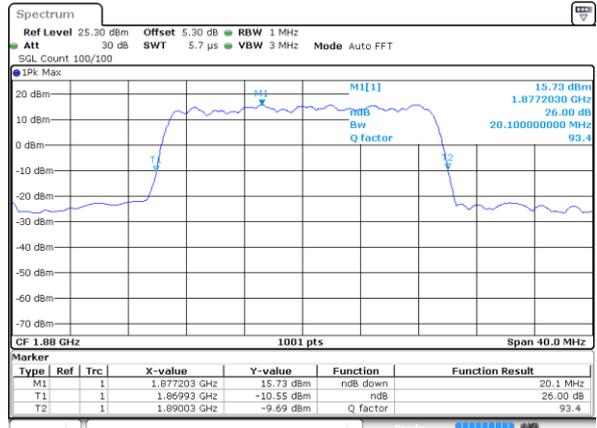
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Highest Channel / 20MHz / QPSK
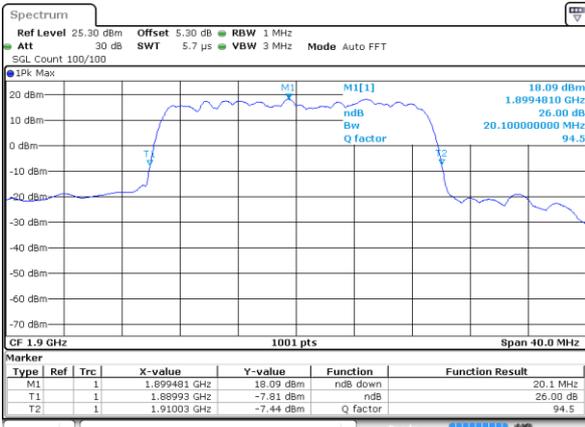
Date: 4.DEC.2018 11:10:21

Highest Channel / 20MHz / 16QAM

Date: 4.DEC.2018 11:10:32

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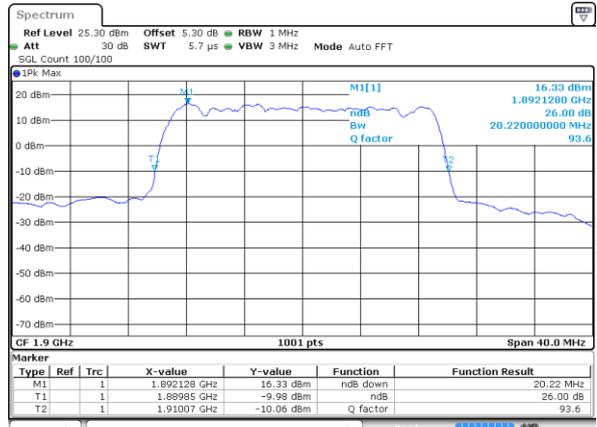
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Lowest Channel / 1.4MHz / 64QAM	**Lowest Channel / 3MHz / 64QAM**
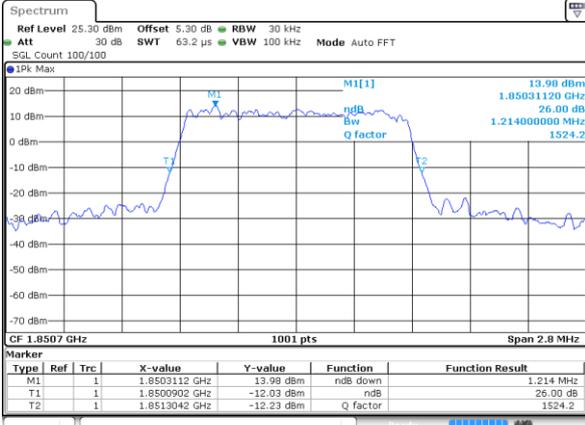
Date: 4.DEC.2018 11:21:22
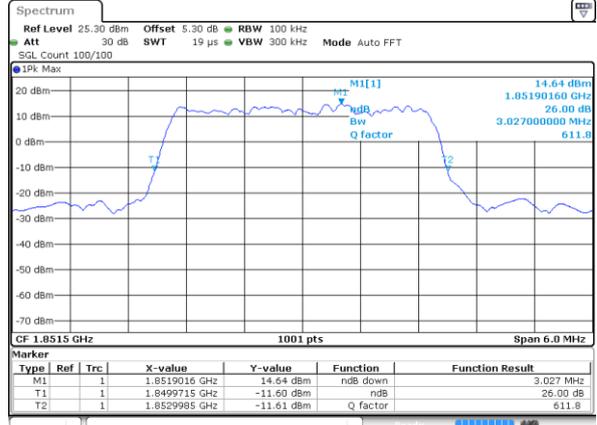
Date: 4.DEC.2018 11:21:54

Middle Channel / 1.4MHz / 64QAM	**Middle Channel / 3MHz / 64QAM**
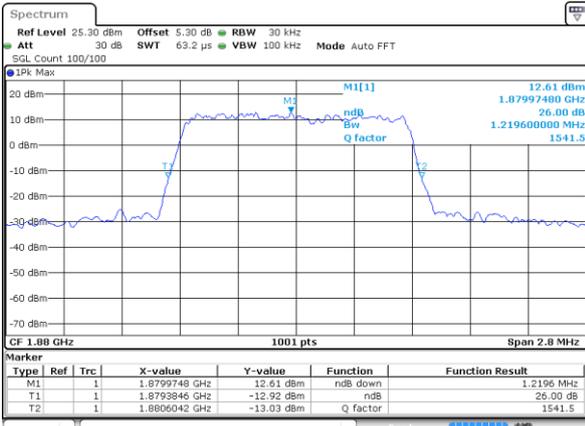
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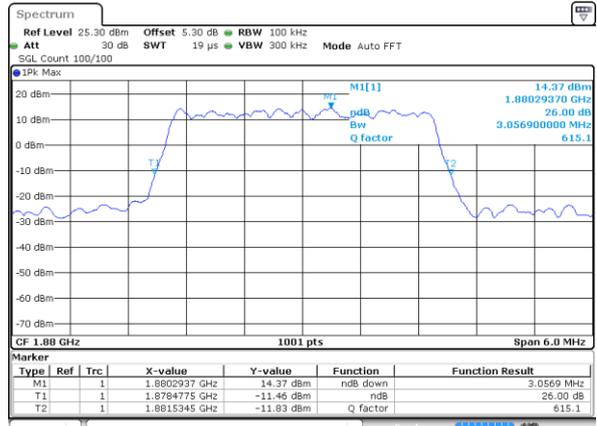
Date: 4.DEC.2018 11:22:05

Highest Channel / 1.4MHz / 64QAM	**Highest Channel / 3MHz / 64QAM**
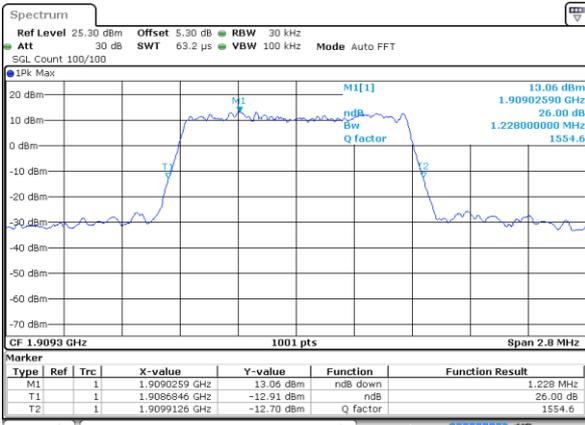
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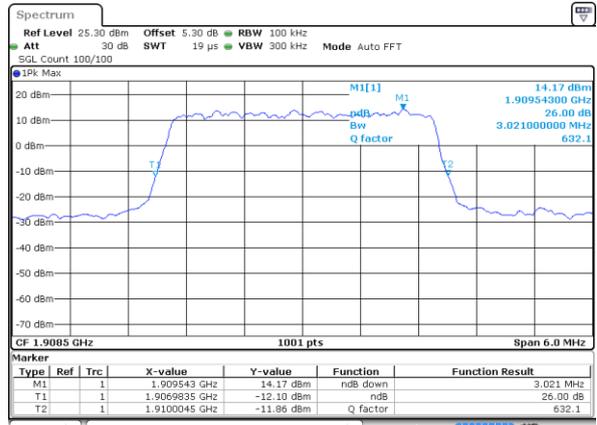
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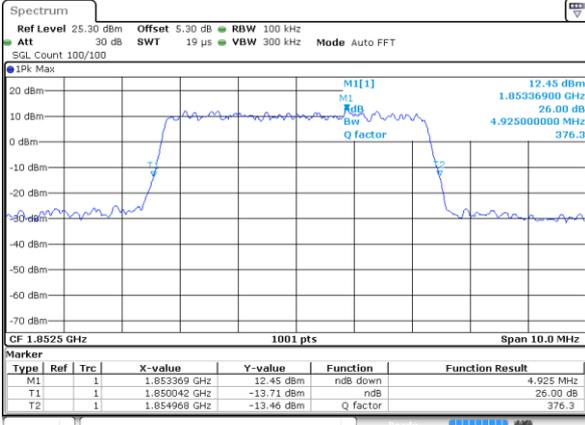
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Lowest Channel / 5MHz / 64QAM	**Lowest Channel / 10MHz / 64QAM**

Middle Channel / 5MHz / 64QAM	**Middle Channel / 10MHz / 64QAM**

Highest Channel / 5MHz / 64QAM	**Highest Channel / 10MHz / 64QAM**

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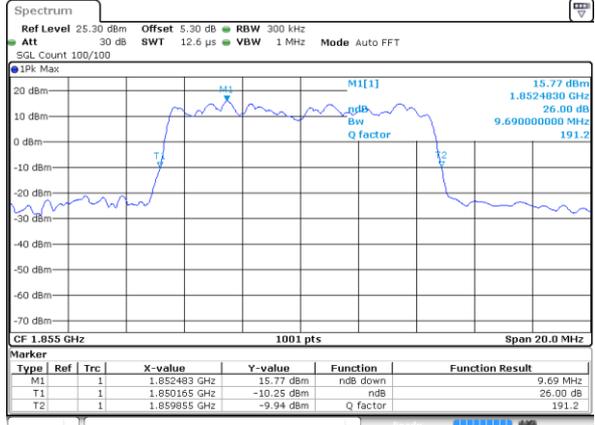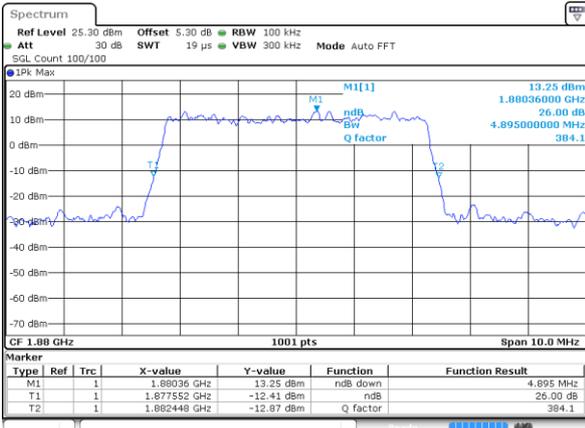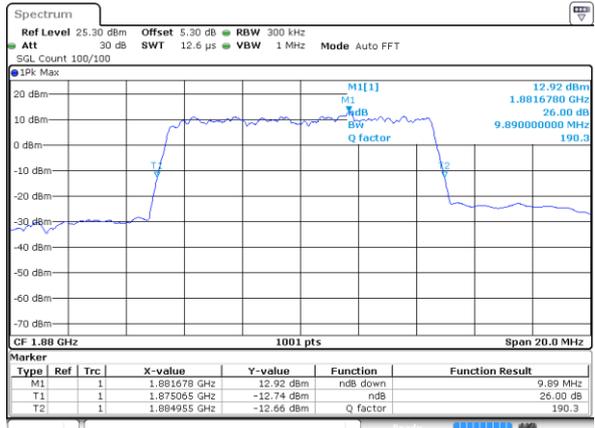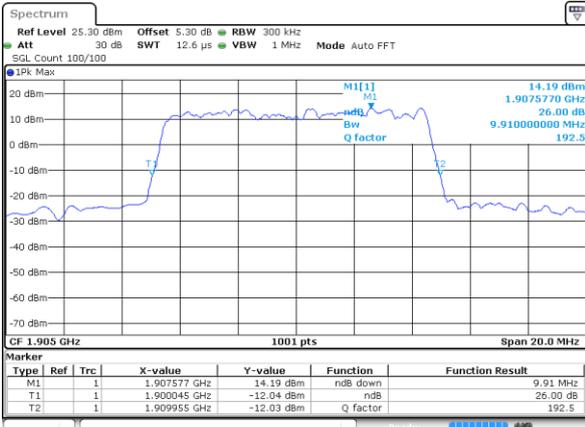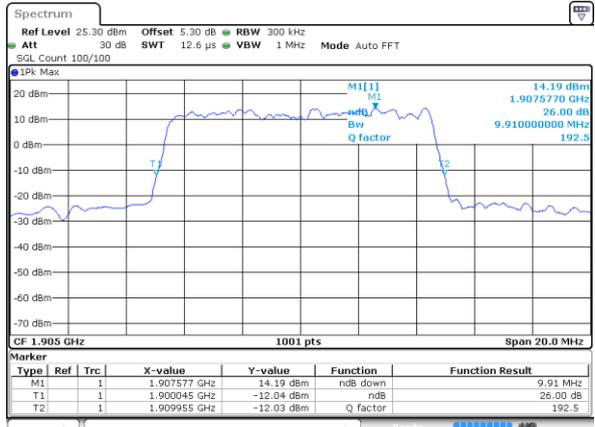
LTE Band 2	
Lowest Channel / 15MHz / 64QAM	**Lowest Channel / 20MHz / 64QAM**
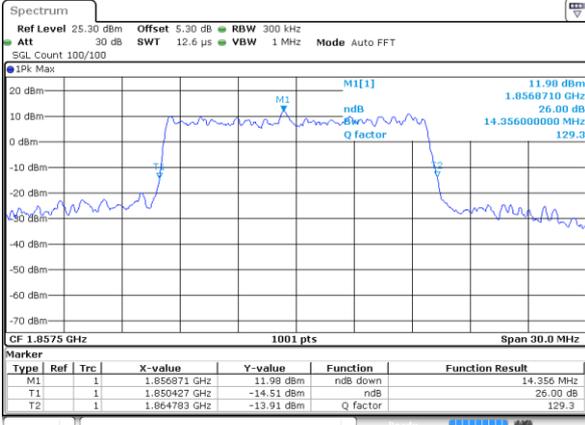
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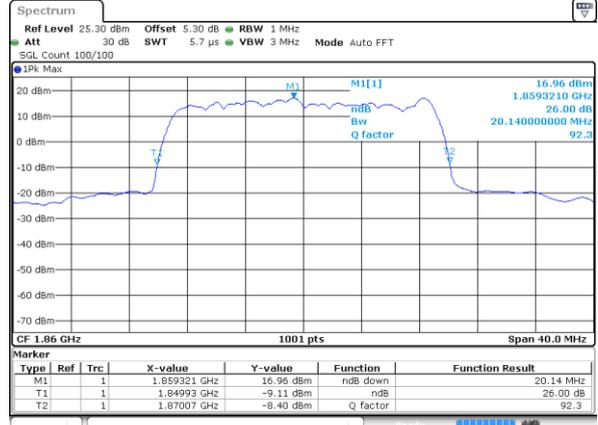
Date: 4.DEC.2018 11:24:01

Middle Channel / 15MHz / 64QAM	**Middle Channel / 20MHz / 64QAM**
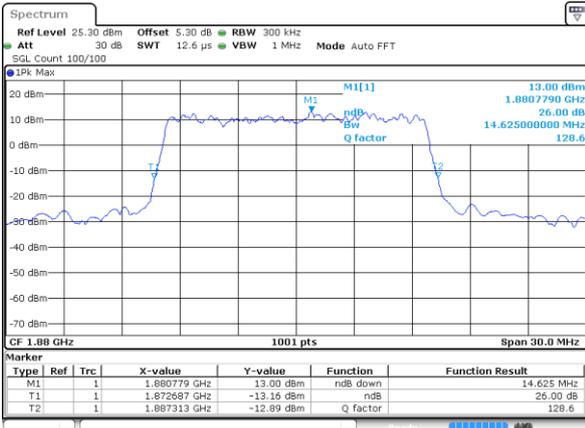
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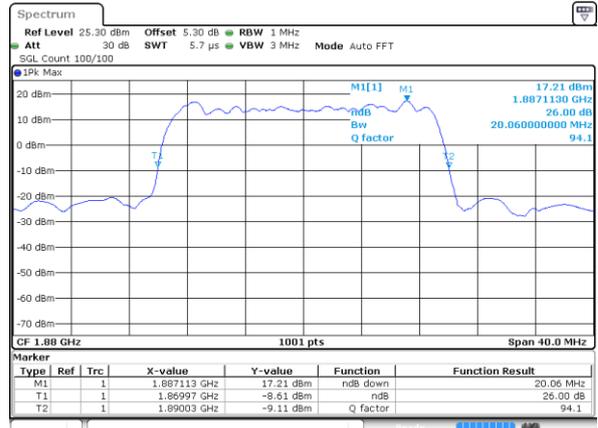
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Highest Channel / 15MHz / 64QAM	**Highest Channel / 20MHz / 64QAM**
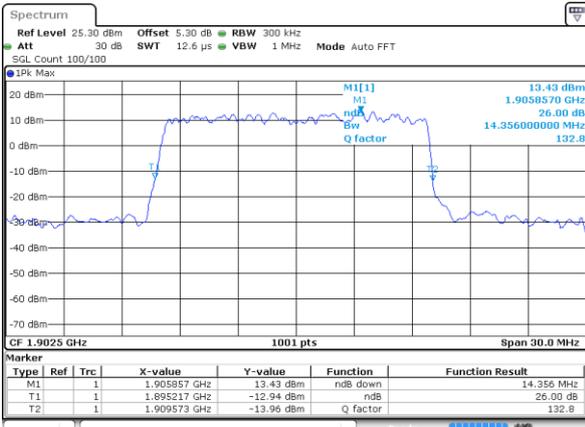
Date: 4.DEC.2018 11:23:50

Date: 4.DEC.2018 11:24:22

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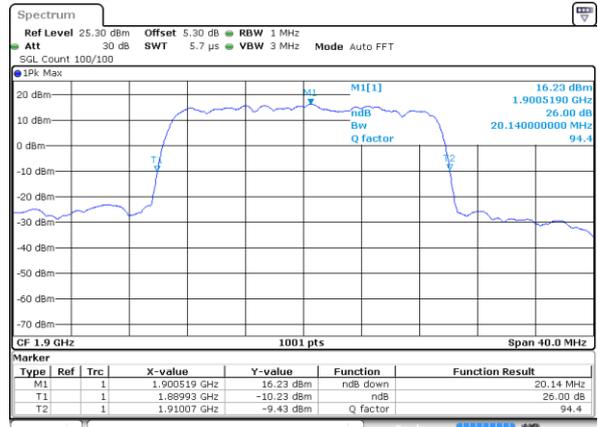
LTE Band 4
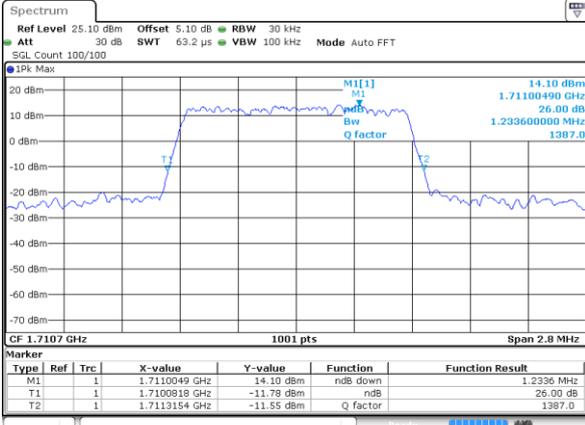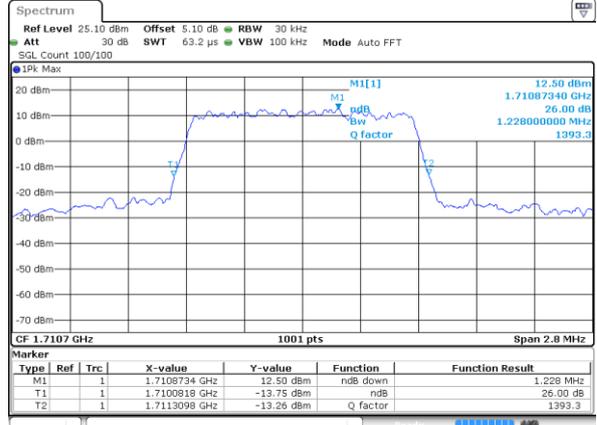
Lowest Channel / 1.4MHz / QPSK	Lowest Channel / 1.4MHz / 16QAM
Date: 7.DEC.2018 09:11:51	Date: 7.DEC.2018 09:12:02
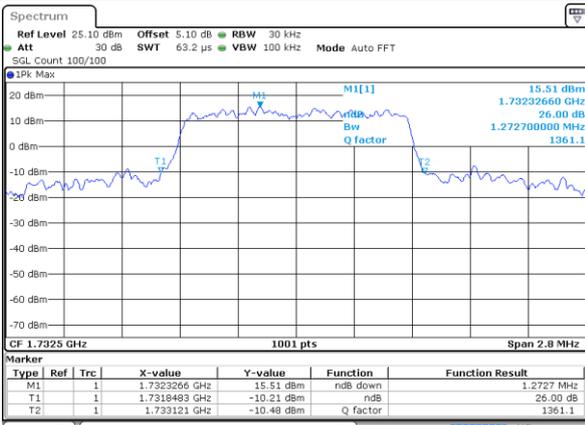
Middle Channel / 1.4MHz / QPSK	Middle Channel / 1.4MHz / 16QAM
Date: 7.DEC.2018 13:28:03	Date: 7.DEC.2018 09:19:07
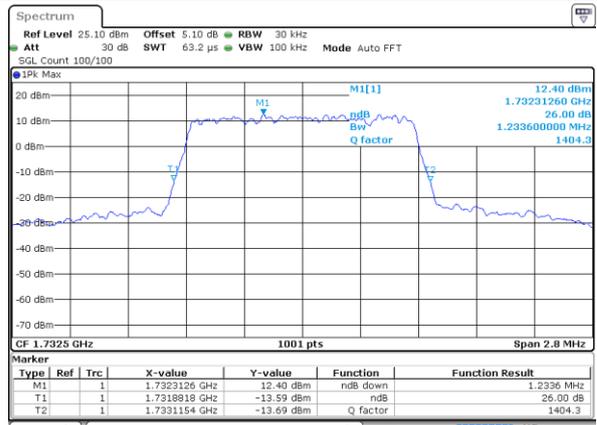
Highest Channel / 1.4MHz / QPSK	Highest Channel / 1.4MHz / 16QAM
Date: 7.DEC.2018 09:21:29	Date: 7.DEC.2018 09:21:40
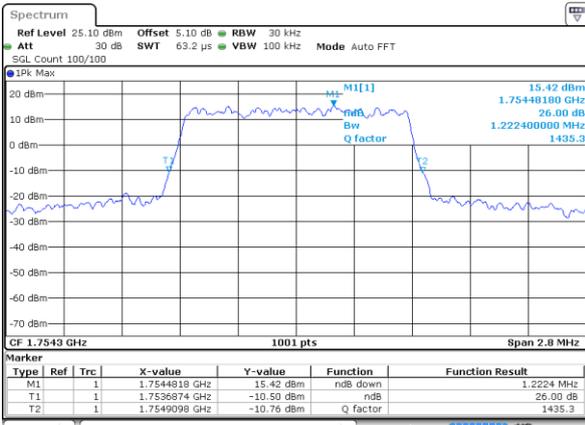
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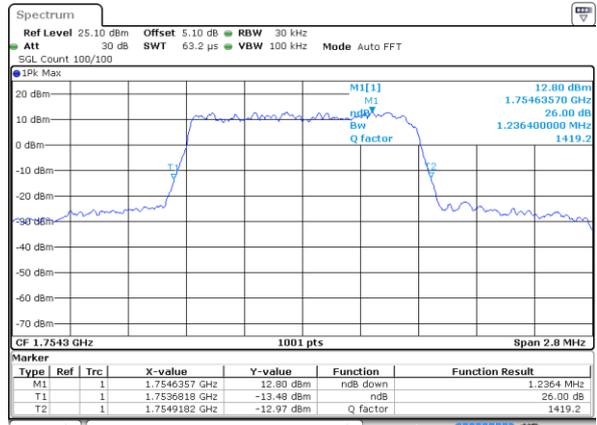
LTE Band 4	
Lowest Channel / 3MHz / QPSK	**Lowest Channel / 3MHz / 16QAM**
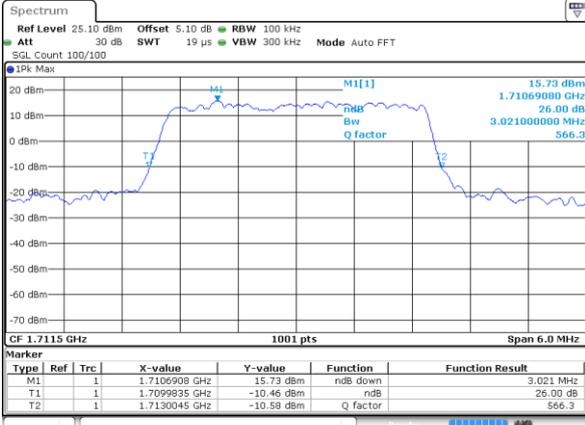
Date: 7.DEC.2018 09:28:34
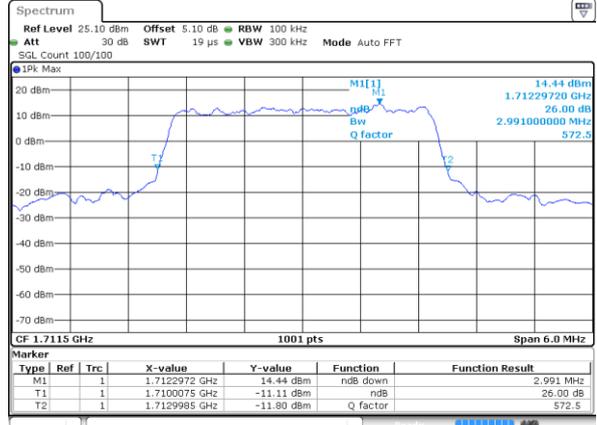
Date: 7.DEC.2018 09:28:45

Middle Channel / 3MHz / QPSK	**Middle Channel / 3MHz / 16QAM**

Date: 7.DEC.2018 13:29:16
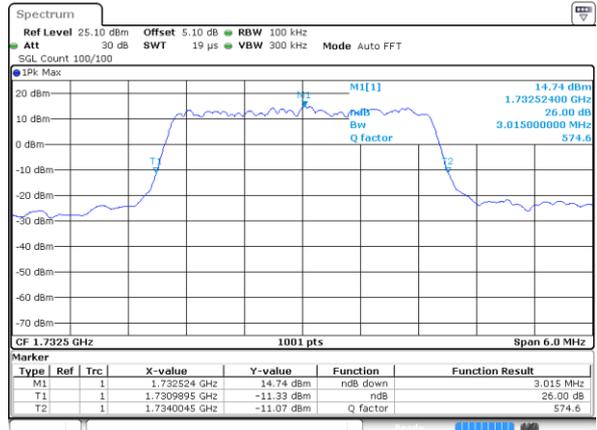
Date: 7.DEC.2018 09:35:50

Highest Channel / 3MHz / QPSK	**Highest Channel / 3MHz / 16QAM**
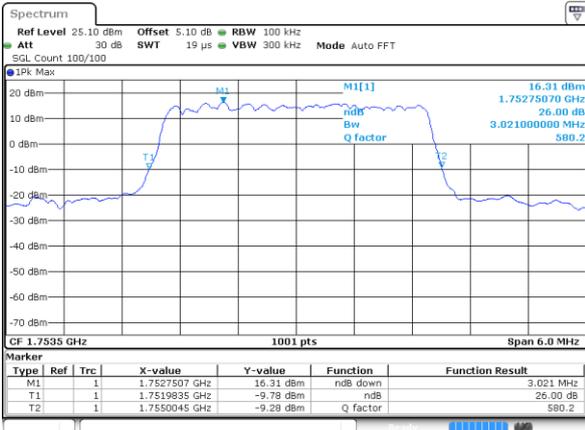
Date: 7.DEC.2018 09:38:12

Date: 7.DEC.2018 09:38:23

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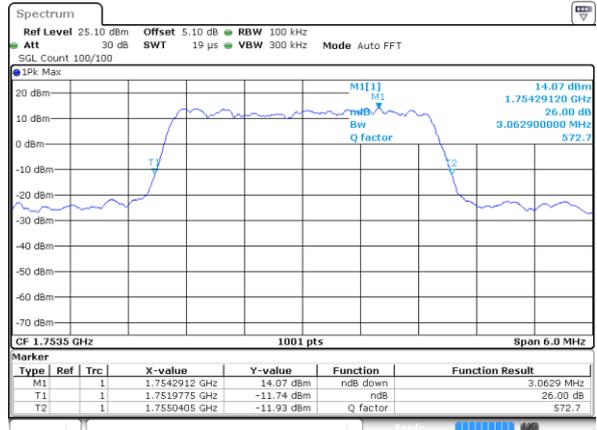
LTE Band 4
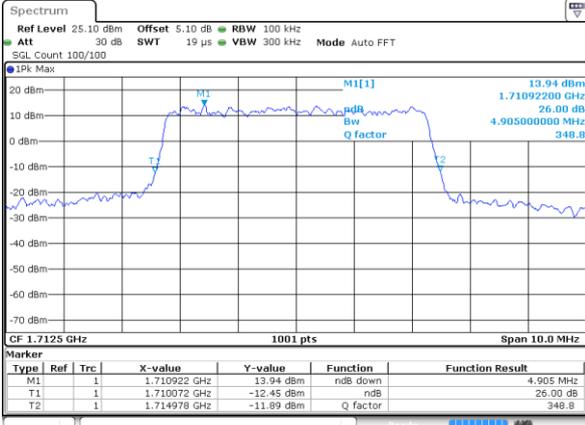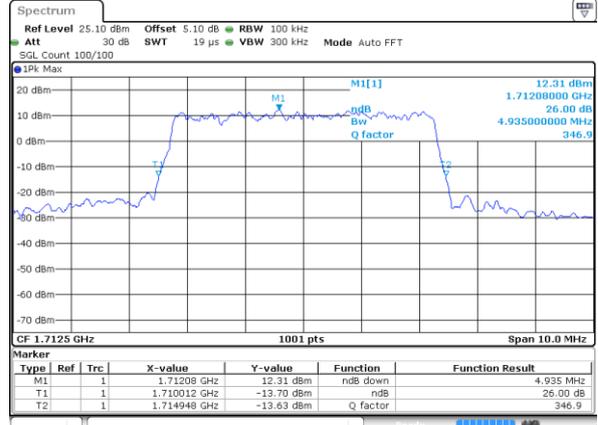
Lowest Channel / 5MHz / QPSK	Lowest Channel / 5MHz / 16QAM
Date: 7.DEC.2018 09:45:18	Date: 7.DEC.2018 09:45:28
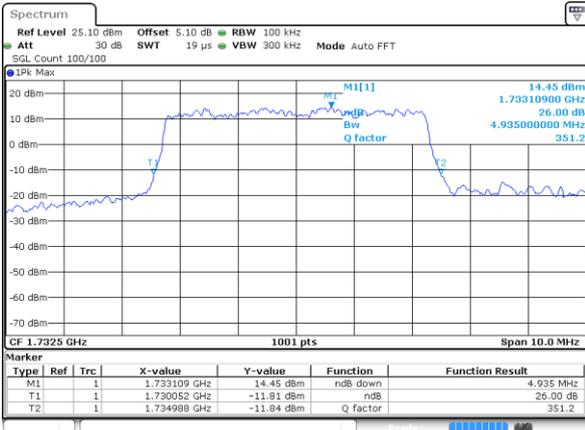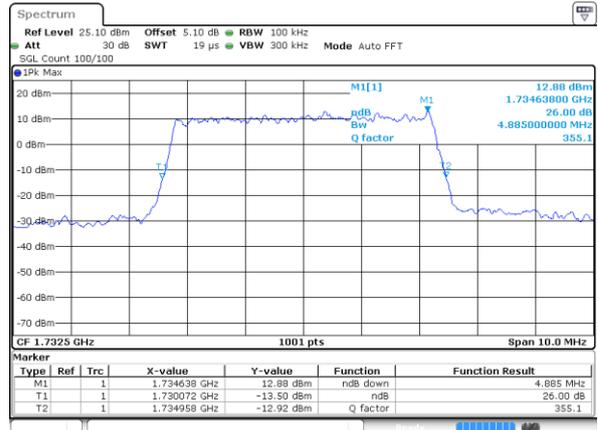
Middle Channel / 5MHz / QPSK	Middle Channel / 5MHz / 16QAM
Date: 7.DEC.2018 13:30:24	Date: 7.DEC.2018 09:52:33

Highest Channel / 5MHz / QPSK	Highest Channel / 5MHz / 16QAM
Date: 7.DEC.2018 09:54:56	Date: 7.DEC.2018 09:55:06
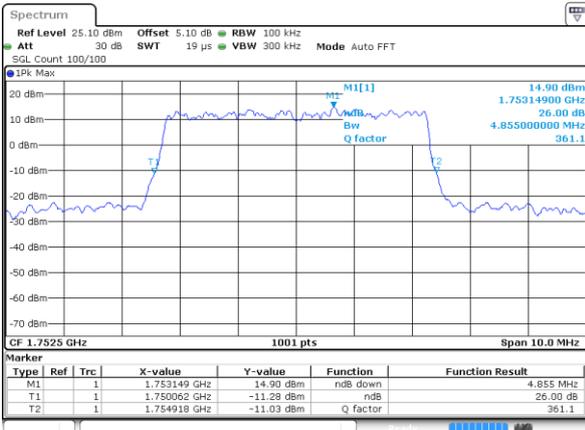
Sporton International (Kunshan) Inc.
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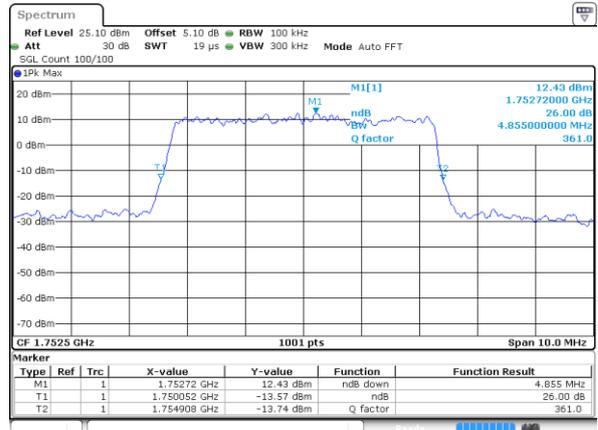
LTE Band 4	
Lowest Channel / 10MHz / QPSK	**Lowest Channel / 10MHz / 16QAM**
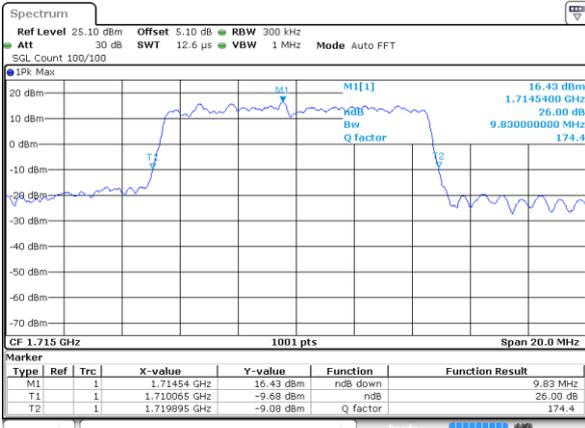
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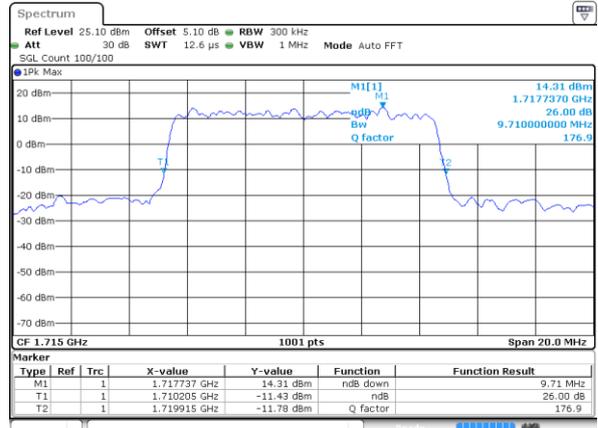
Date: 7.DEC.2018 10:02:12

Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**

Date: 7.DEC.2018 13:31:01
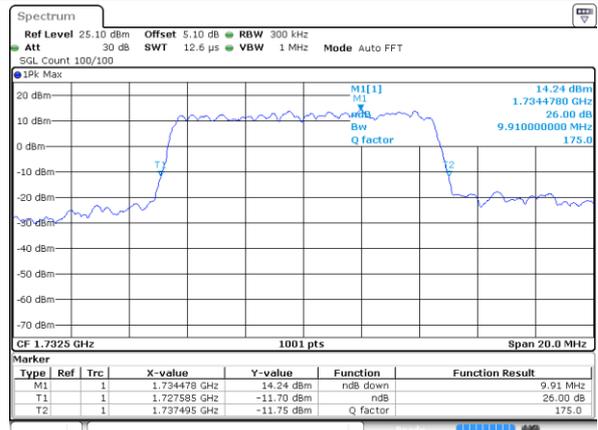
Date: 7.DEC.2018 10:09:17

Highest Channel / 10MHz / QPSK	**Highest Channel / 10MHz / 16QAM**
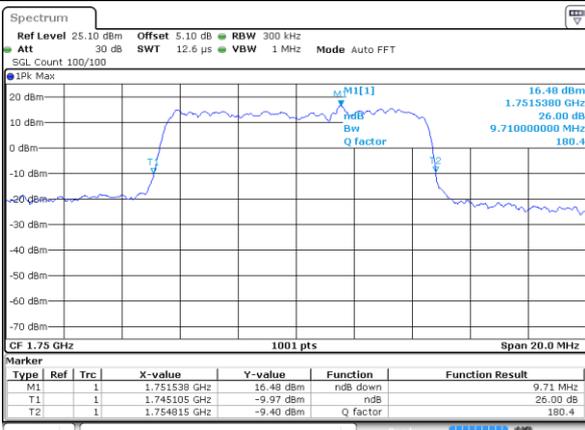
Date: 7.DEC.2018 10:11:39
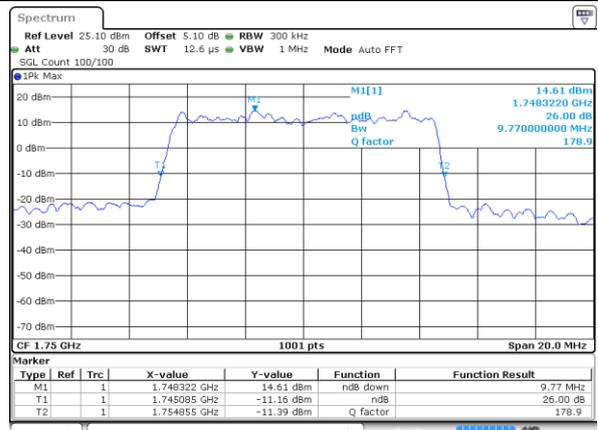
Date: 7.DEC.2018 10:11:50

LTE Band 4
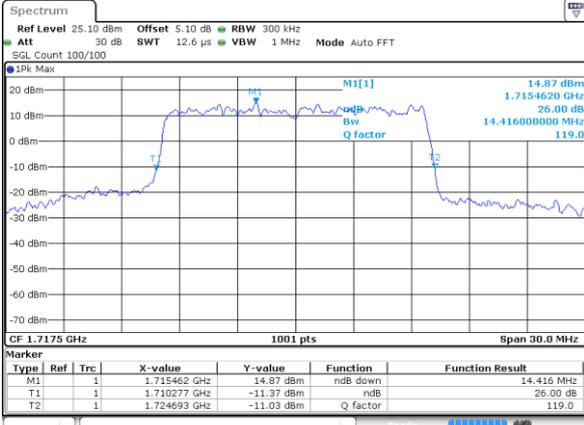
Lowest Channel / 15MHz / QPSK	Lowest Channel / 15MHz / 16QAM
Date: 7.DEC.2018 10:18:44	Date: 7.DEC.2018 10:18:55
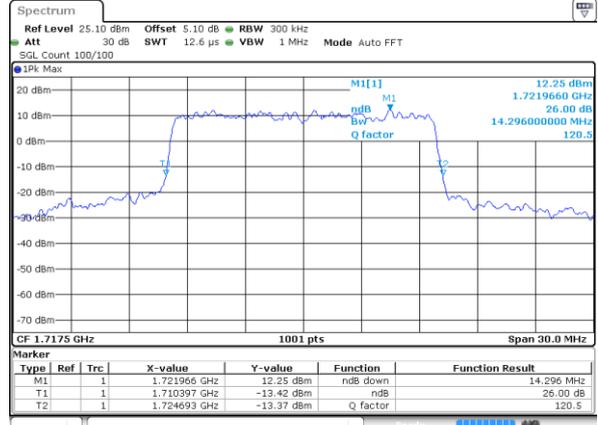
Middle Channel / 15MHz / QPSK	Middle Channel / 15MHz / 16QAM
Date: 7.DEC.2018 10:25:50	Date: 7.DEC.2018 10:26:00
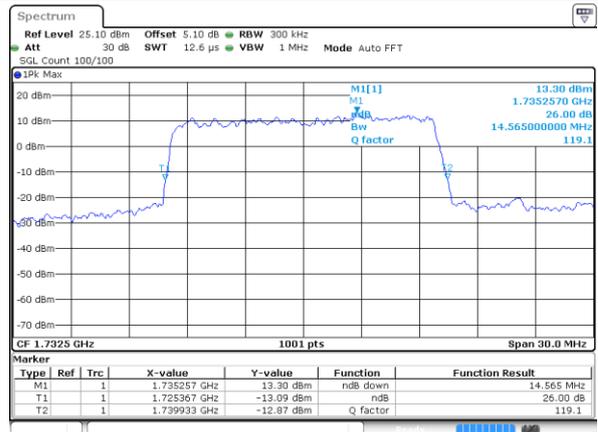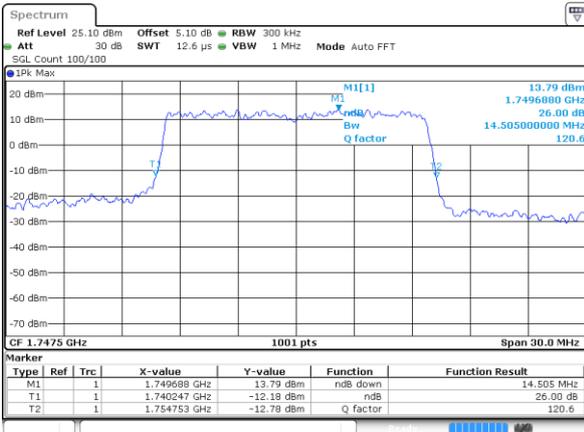
Highest Channel / 15MHz / QPSK	Highest Channel / 15MHz / 16QAM
Date: 7.DEC.2018 10:28:23	Date: 7.DEC.2018 10:28:34
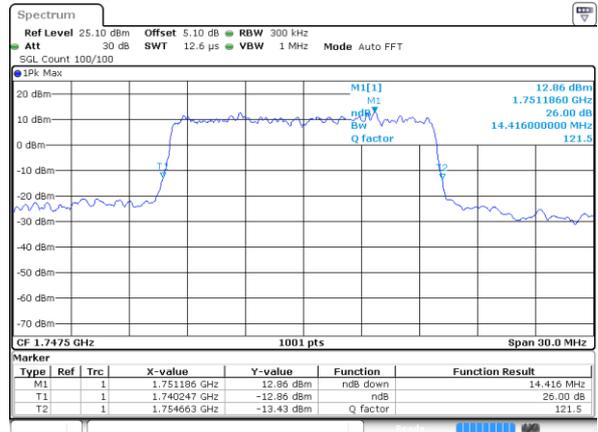
LTE Band 4

Lowest Channel / 20MHz / QPSK	Lowest Channel / 20MHz / 16QAM
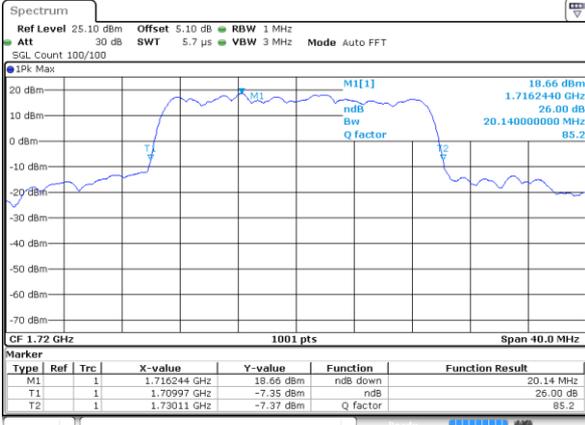
Date: 7.DEC.2018 10:35:29
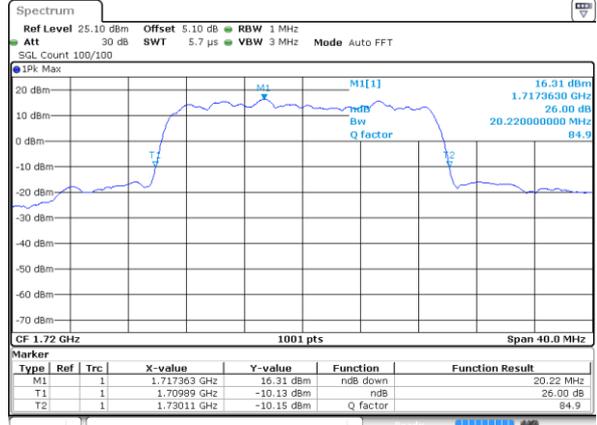
Date: 7.DEC.2018 10:35:39

Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

Date: 7.DEC.2018 10:42:34
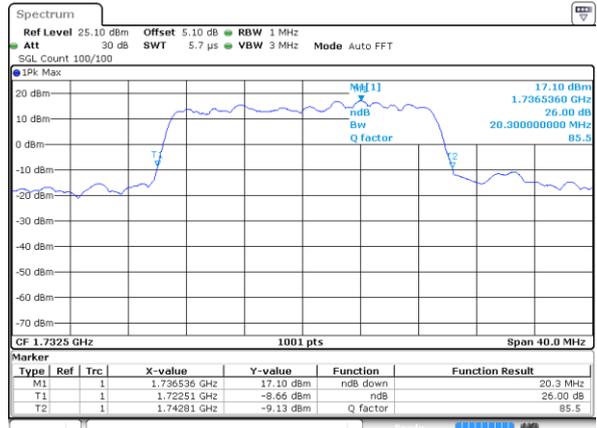
Date: 7.DEC.2018 10:42:45

Highest Channel / 20MHz / QPSK	Highest Channel / 20MHz / 16QAM
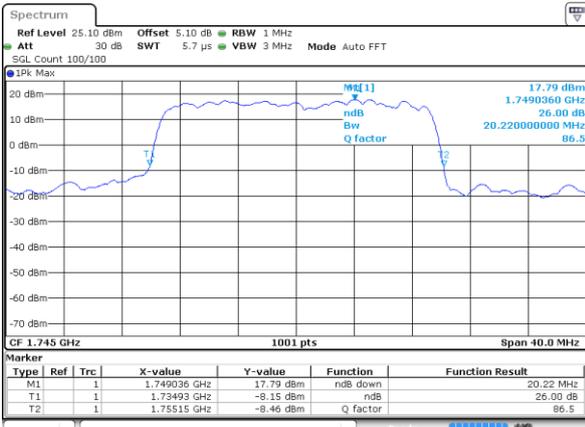
Date: 7.DEC.2018 10:45:08
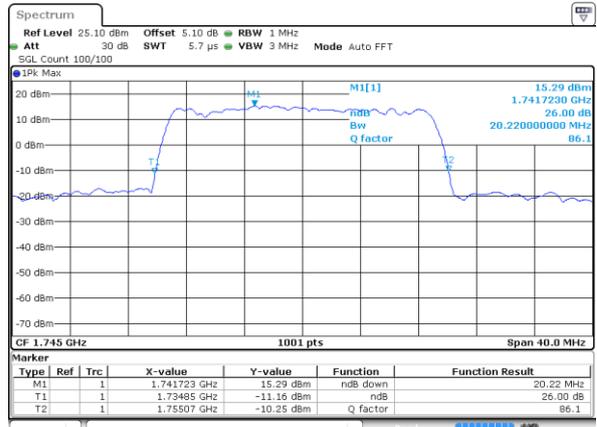
Date: 7.DEC.2018 10:45:19

LTE Band 4

Lowest Channel / 1.4MHz / 64QAM | Lowest Channel / 3MHz / 64QAM
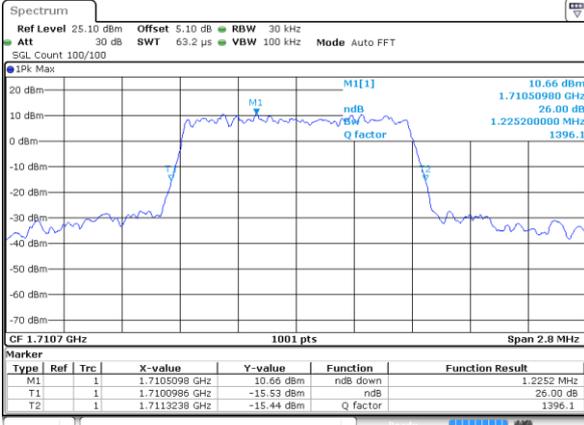
Date: 7.DEC.2018 11:10:48
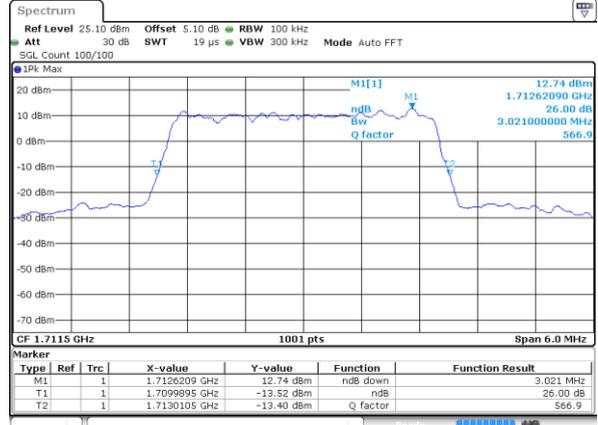
Date: 7.DEC.2018 11:11:53

Middle Channel / 1.4MHz / 64QAM | Middle Channel / 3MHz / 64QAM

Date: 7.DEC.2018 11:11:10
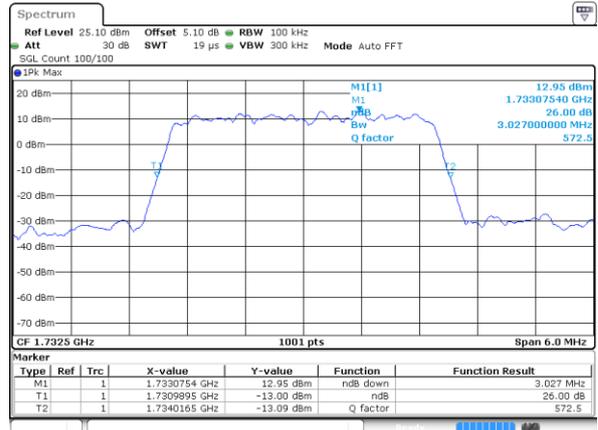
Date: 7.DEC.2018 11:12:14

Highest Channel / 1.4MHz / 64QAM | Highest Channel / 3MHz / 64QAM
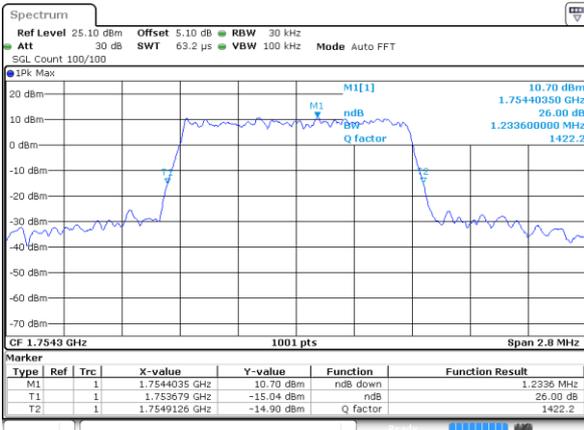
Date: 7.DEC.2018 11:11:31

Date: 7.DEC.2018 11:12:35

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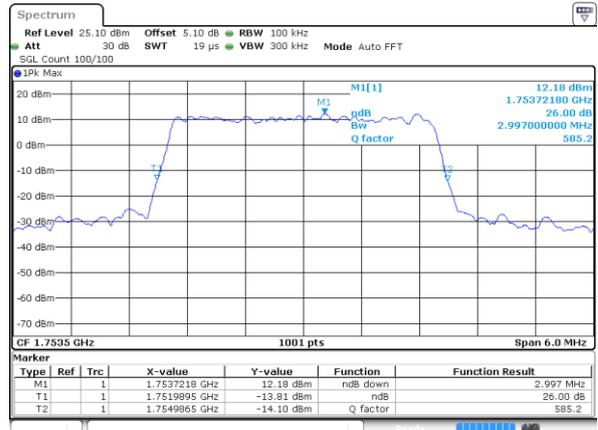
LTE Band 4	
Lowest Channel / 5MHz / 64QAM	**Lowest Channel / 10MHz / 64QAM**
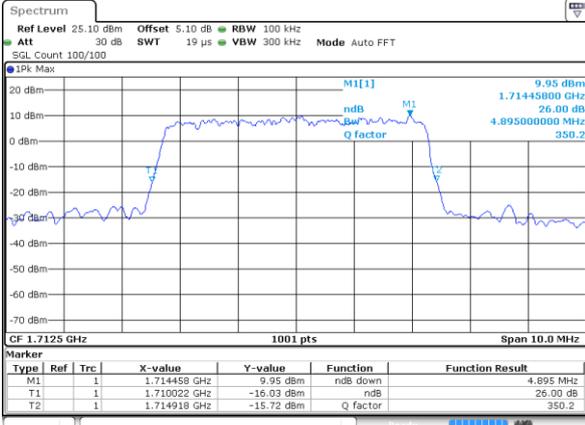
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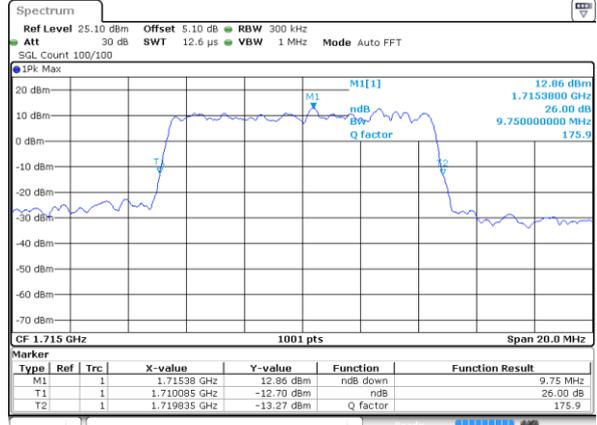
Date: 7.DEC.2018 11:14:00

Middle Channel / 5MHz / 64QAM	**Middle Channel / 10MHz / 64QAM**
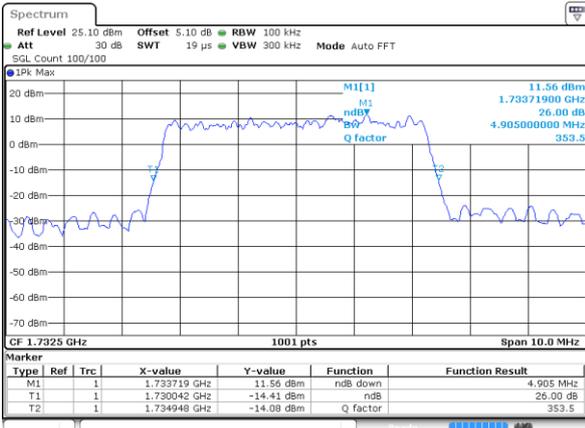
Date: 7.DEC.2018 11:13:18
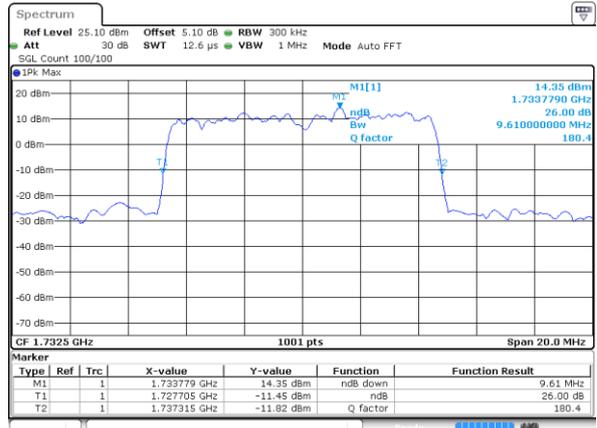
Date: 7.DEC.2018 11:14:21

Highest Channel / 5MHz / 64QAM	**Highest Channel / 10MHz / 64QAM**
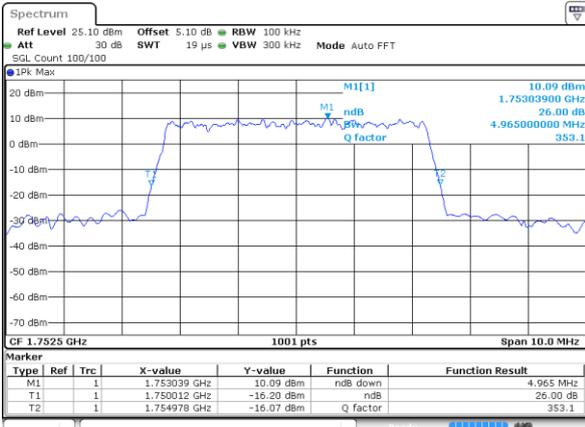
Date: 7.DEC.2018 11:13:39

Date: 7.DEC.2018 11:14:42

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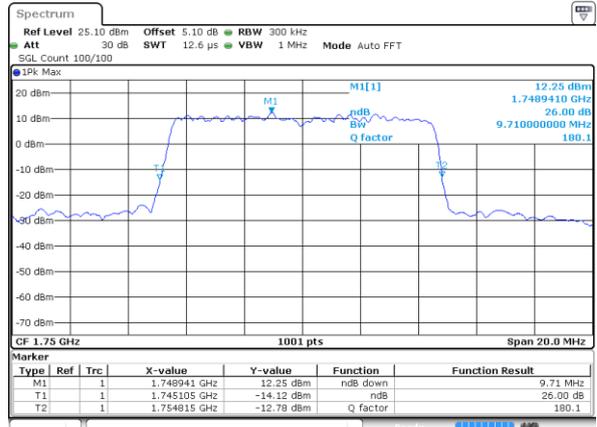
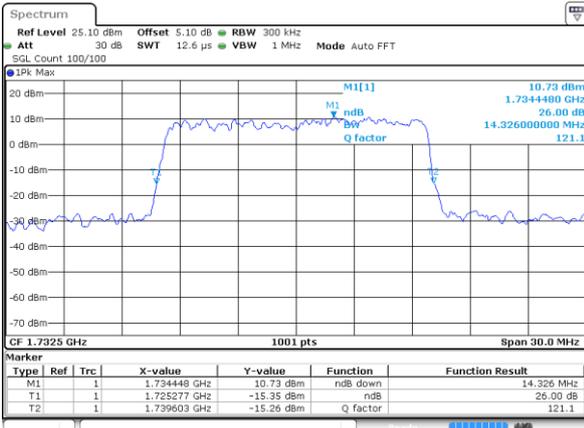| LTE Band 4 |
|---|

Lowest Channel / 15MHz / 64QAM
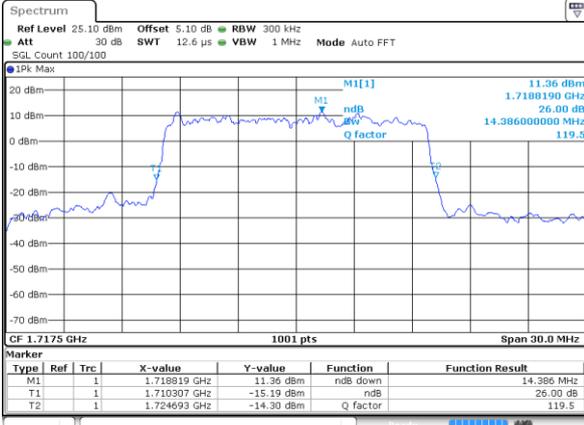
Date: 7.DEC.2018 11:15:04
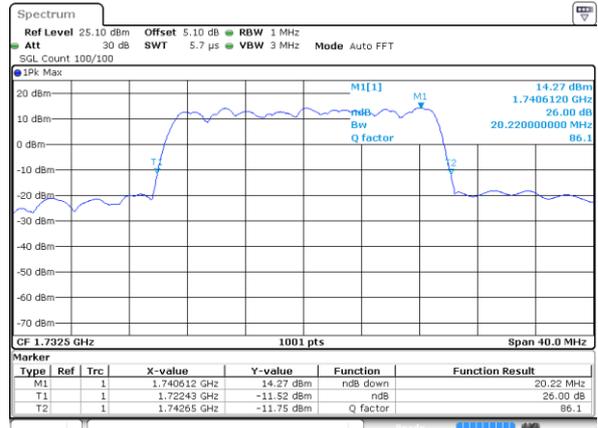
Lowest Channel / 20MHz / 64QAM
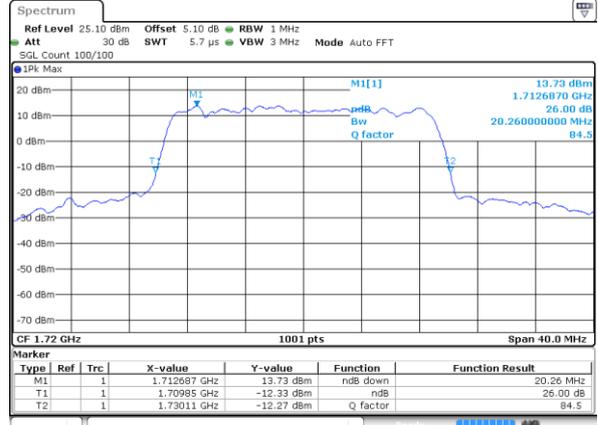
Date: 7.DEC.2018 11:16:07
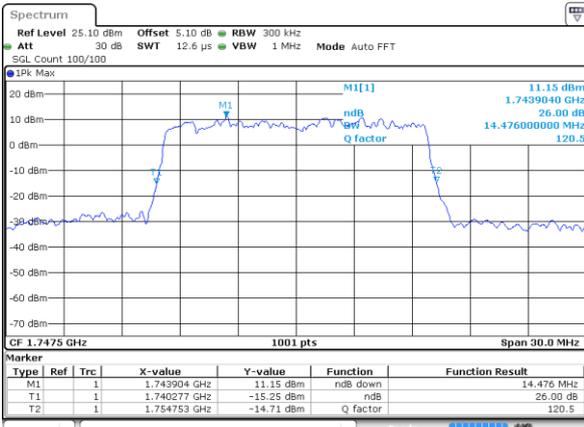
Middle Channel / 15MHz / 64QAM

Date: 7.DEC.2018 11:15:25

Middle Channel / 20MHz / 64QAM

Date: 7.DEC.2018 11:16:29

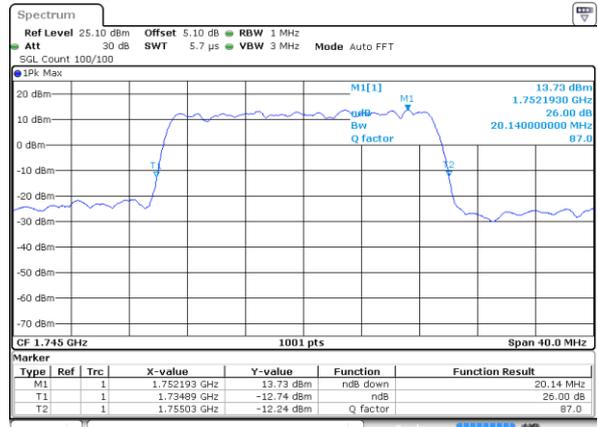## Highest Channel / 15MHz / 64QAM

Date: 7.DEC.2018 11:15:46

Highest Channel / 20MHz / 64QAM

Date: 7.DEC.2018 11:16:50