LTE Band 7
16QAM

Lowest Channel / 10MHz+20MHz	

Date: 27.JUL.2019 01:39:34

Middle Channel / 10MHz+20MHz	

Date: 27.JUL.2019 01:31:23

Highest Channel / 10MHz+20MHz	
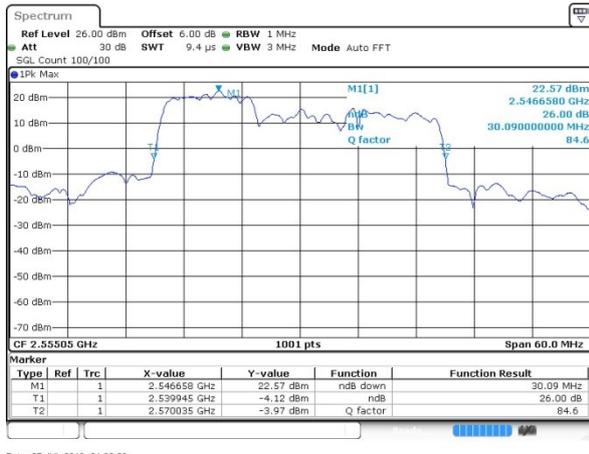
Date: 27.JUL.2019 01:30:03

LTE Band 7
16QAM

Lowest Channel / 15MHz+10MHz	Lowest Channel / 15MHz+15MHz
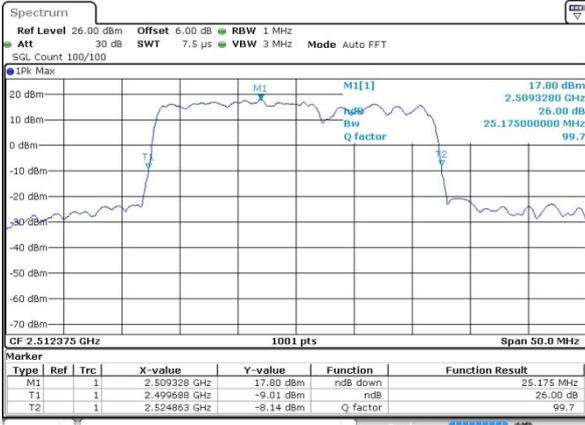
Date: 31.JUL.2019 11:03:55
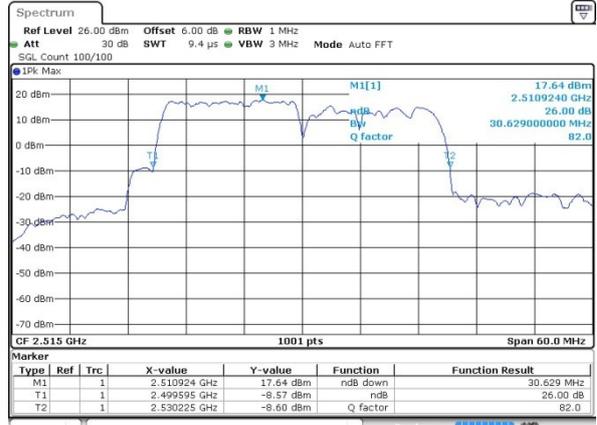
Date: 31.JUL.2019 11:26:49

Middle Channel / 15MHz+10MHz	Middle Channel / 15MHz+15MHz
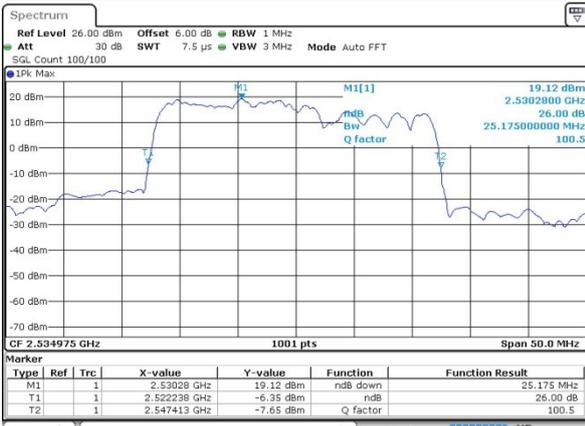
Date: 31.JUL.2019 11:05:11
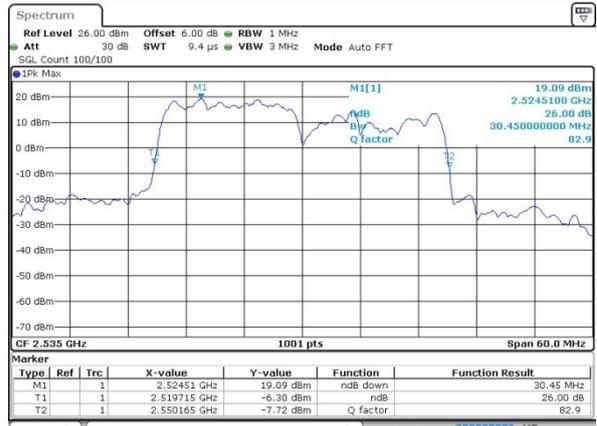
Date: 31.JUL.2019 11:28:43

Highest Channel / 15MHz+10MHz	Highest Channel / 15MHz+15MHz
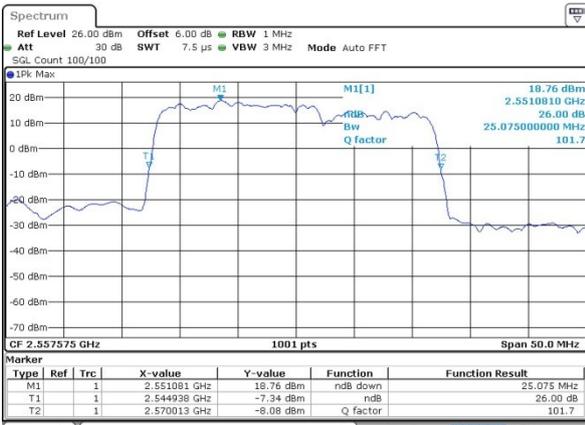
Date: 31.JUL.2019 11:17:48
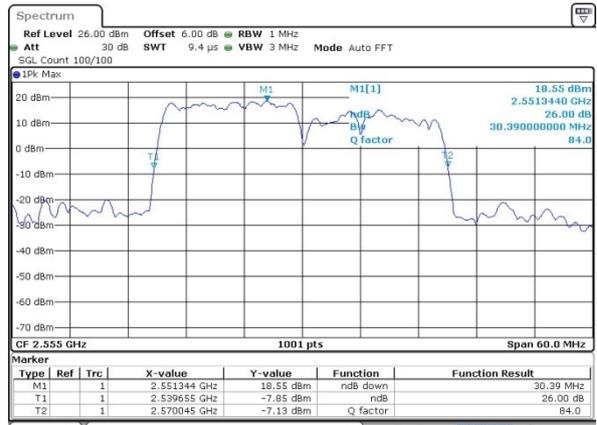
Date: 31.JUL.2019 11:40:54

LTE Band 7
16QAM

Lowest Channel / 15MHz+20MHz	Lowest Channel / 20MHz+10MHz

Middle Channel / 15MHz+20MHz	Middle Channel / 20MHz+10MHz

Highest Channel / 15MHz+20MHz	Highest Channel / 20MHz+10MHz

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LTE Band 7
16QAM

Lowest Channel / 20MHz+15MHz	Lowest Channel / 20MHz+20MHz

Middle Channel / 20MHz+15MHz	Middle Channel / 20MHz+20MHz

Highest Channel / 20MHz+15MHz	Highest Channel / 20MHz+20MHz

LTE Band 7
64QAM

Lowest Channel / 10MHz+20MHz	

Date: 27.JUL.2019 01:39:16

Middle Channel / 10MHz+20MHz	

Date: 27.JUL.2019 01:31:46

Highest Channel / 10MHz+20MHz	

Date: 27.JUL.2019 01:29:39

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LTE Band 7
64QAM

Lowest Channel / 15MHz+10MHz	Lowest Channel / 15MHz+15MHz
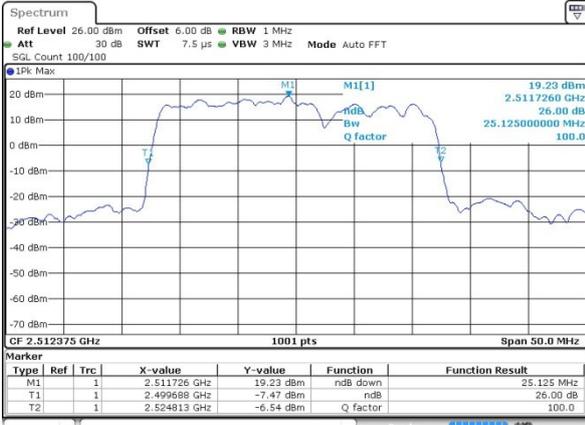
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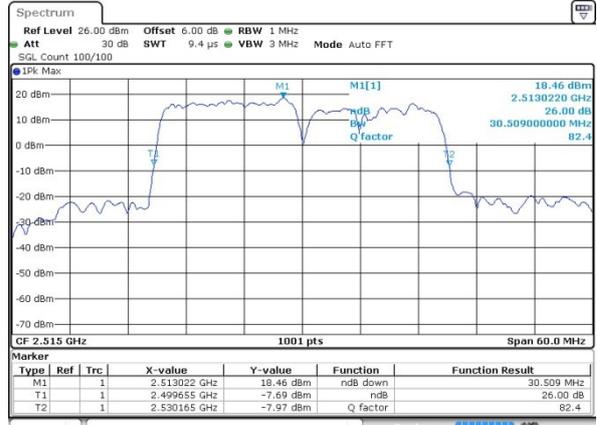
Date: 31.JUL.2019 11:27:23

Middle Channel / 15MHz+10MHz	Middle Channel / 15MHz+15MHz
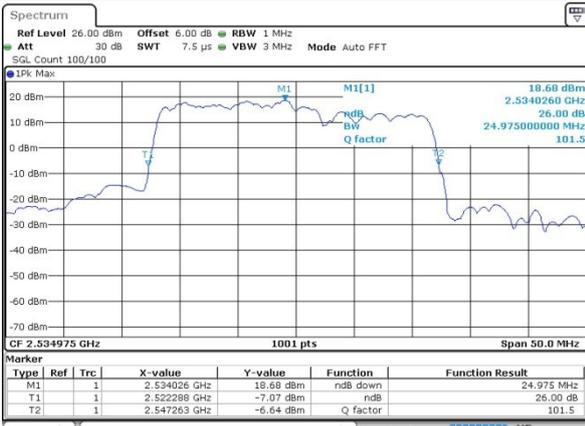
Date: 31.JUL.2019 11:05:30
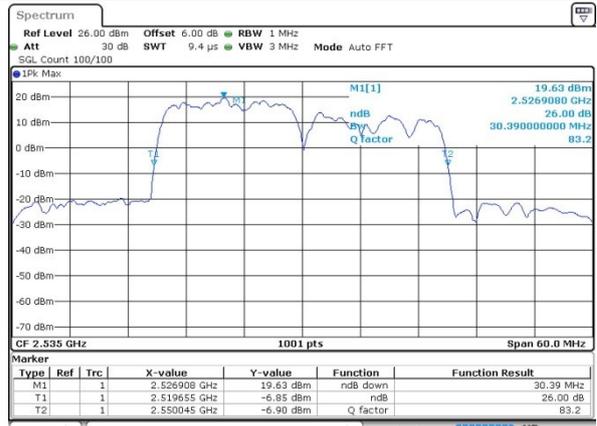
Date: 31.JUL.2019 11:28:16

Highest Channel / 15MHz+10MHz	Highest Channel / 15MHz+15MHz
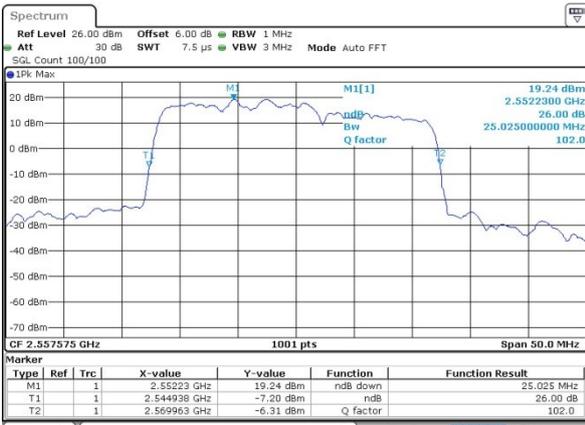
Date: 31.JUL.2019 11:18:08

Date: 31.JUL.2019 11:41:25

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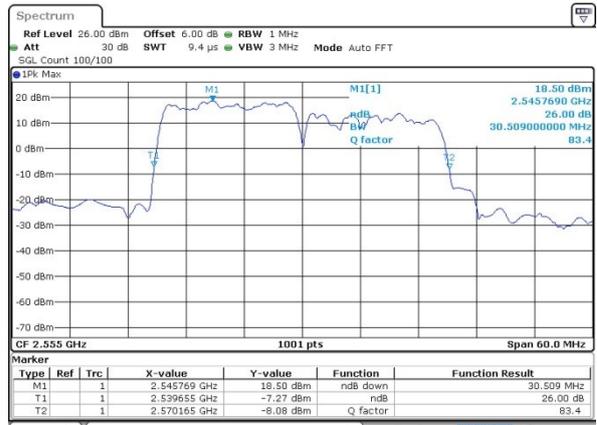
LTE Band 7

64QAM

Lowest Channel / 15MHz+20MHz	Lowest Channel / 20MHz+10MHz
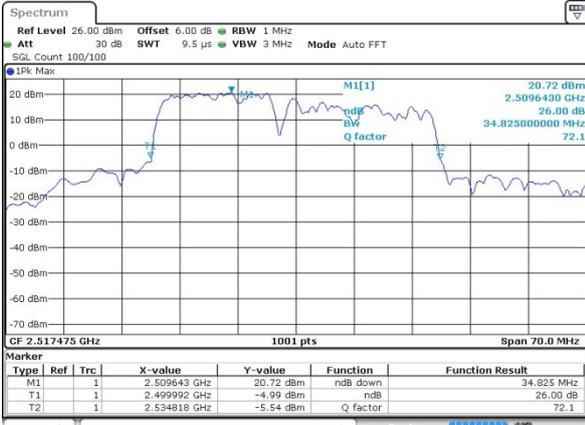
Date: 27.JUL.2019 02:18:23

Date: 27.JUL.2019 02:02:01

Middle Channel / 15MHz+20MHz	Middle Channel / 20MHz+10MHz
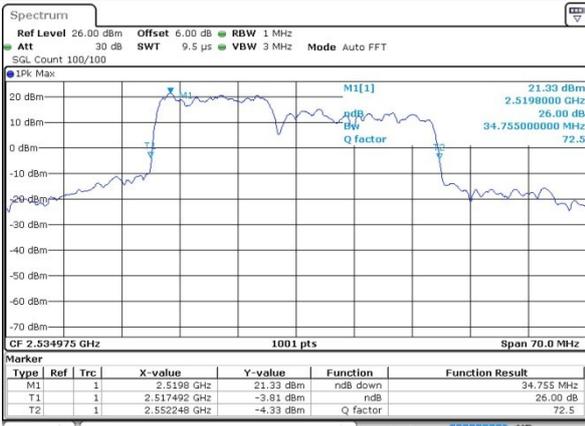
Date: 27.JUL.2019 02:20:17
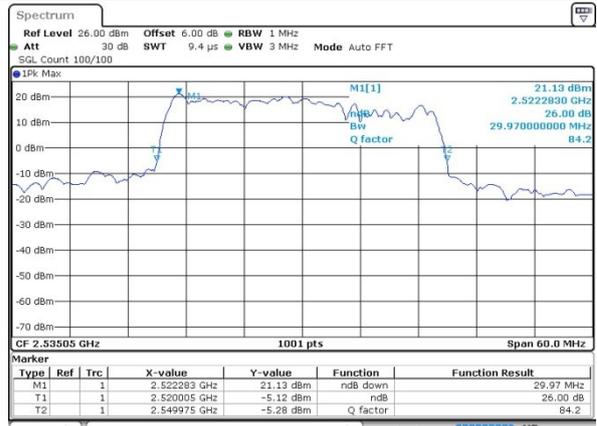
Date: 27.JUL.2019 01:57:44

Highest Channel / 15MHz+20MHz	Highest Channel / 20MHz+10MHz
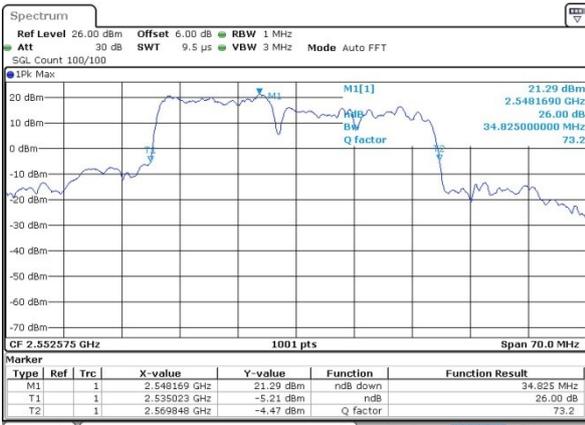
Date: 27.JUL.2019 02:30:31

Date: 27.JUL.2019 01:56:56

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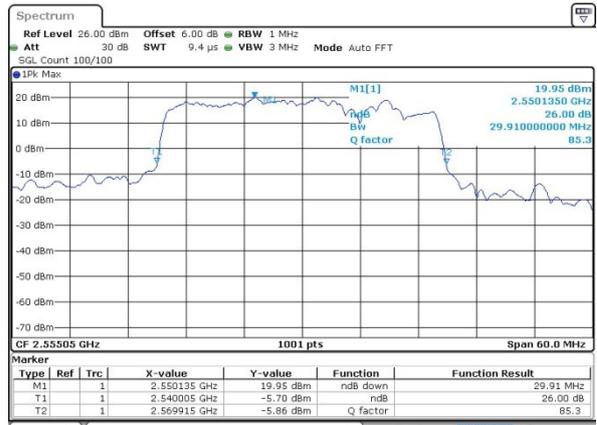
LTE Band 7	
64QAM	
Lowest Channel / 20MHz+15MHz	**Lowest Channel / 20MHz+20MHz**
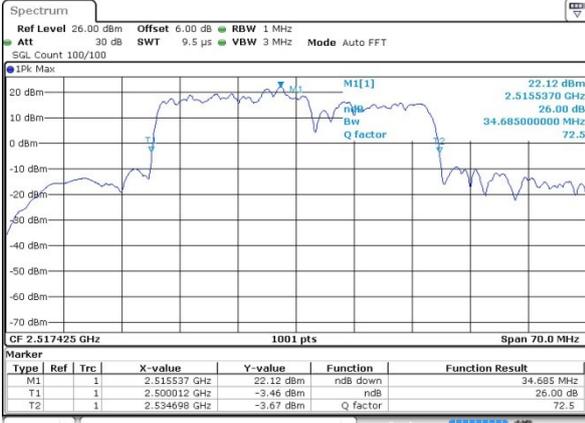
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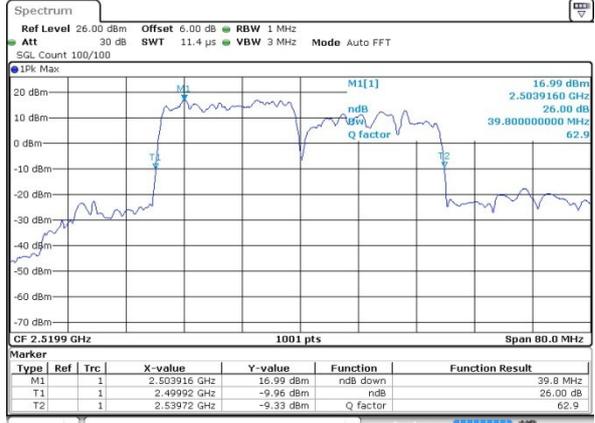
Date: 31 JUL 2019 11:43:14

Middle Channel / 20MHz+15MHz	**Middle Channel / 20MHz+20MHz**
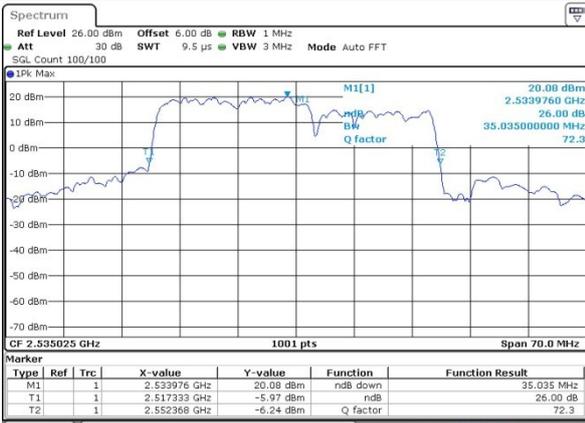
Date: 27 JUL 2019 02:41:29
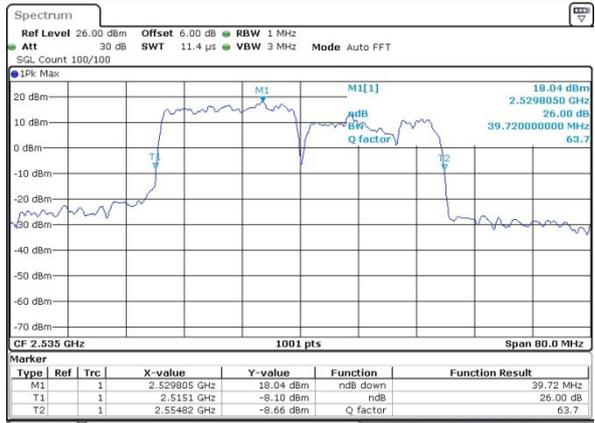
Date: 31 JUL 2019 12:01:32

Highest Channel / 20MHz+15MHz	**Highest Channel / 20MHz+20MH**
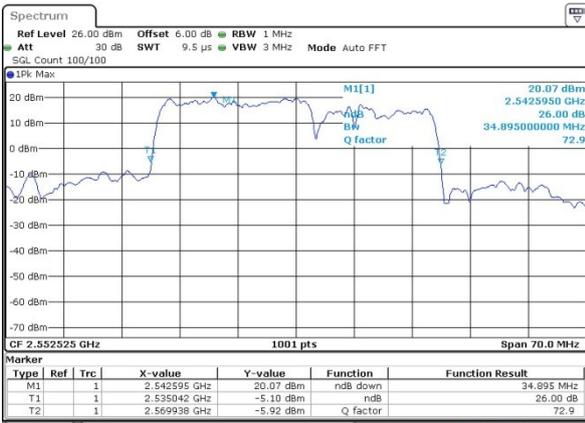
Date: 27 JUL 2019 02:51:08

Date: 31 JUL 2019 12:02:25

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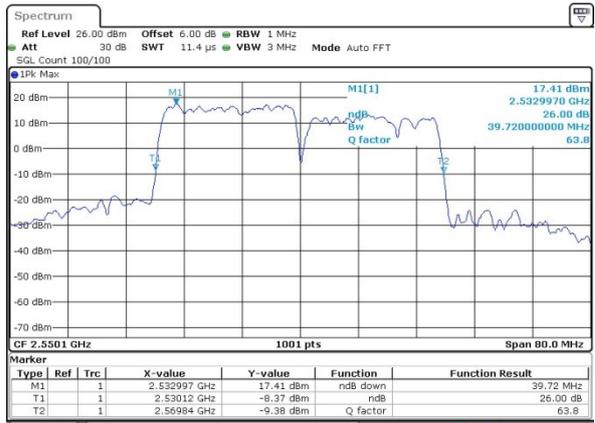
LTE Band 38
QPSK

Lowest Channel / 15MHz+15MHz	Lowest Channel / 20MHz+20MHz
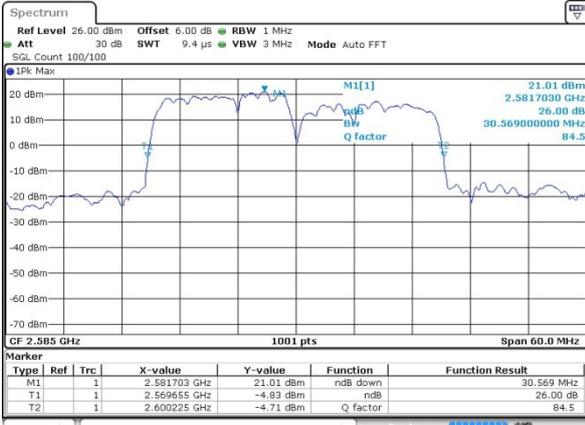
Date: 29.JUL.2019 09:31:33
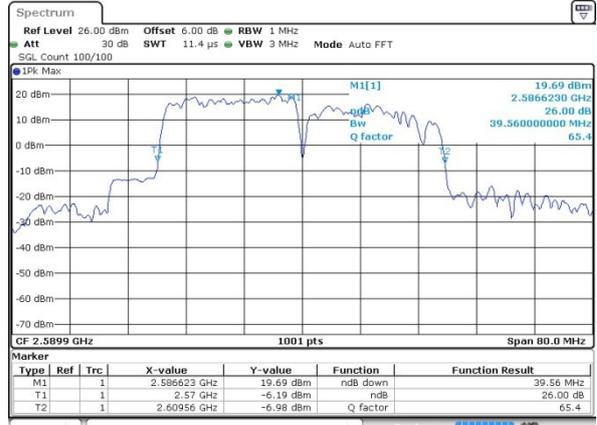
Date: 29.JUL.2019 09:58:59

Middle Channel / 15MHz+15MHz	Middle Channel / 20MHz+20MHz
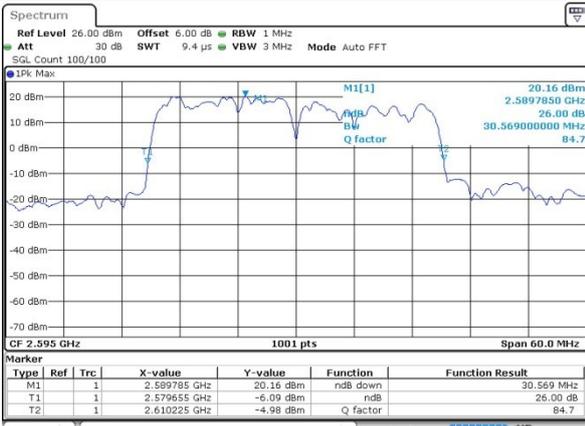
Date: 29.JUL.2019 09:32:42
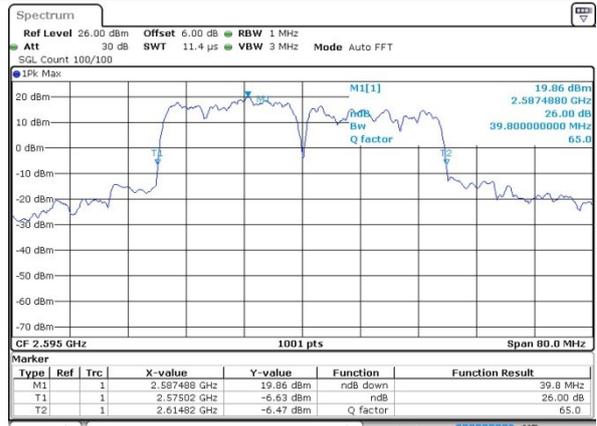
Date: 29.JUL.2019 09:58:00

Highest Channel / 15MHz+15MHz	Highest Channel / 20MHz+20MHz
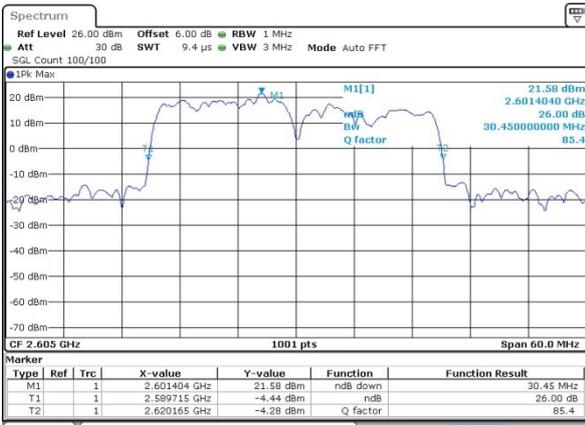
Date: 29.JUL.2019 09:36:40
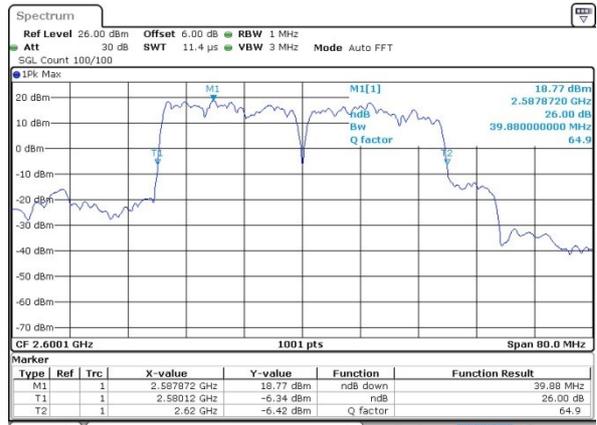
Date: 29.JUL.2019 09:55:07

LTE Band 38

16QAM

Lowest Channel / 15MHz+15MHz	Lowest Channel / 20MHz+20MHz
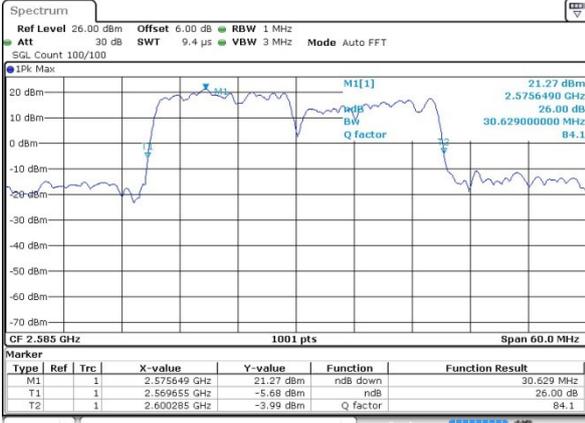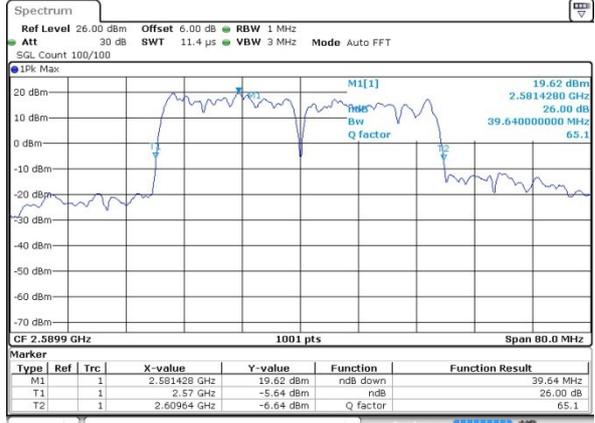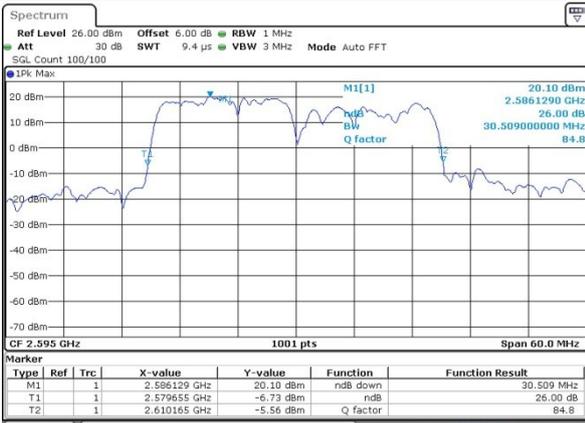
Date: 29.JUL.2019 09:30:55

Date: 29.JUL.2019 09:59:40

Middle Channel / 15MHz+15MHz	Middle Channel / 20MHz+20MHz

Date: 29.JUL.2019 09:33:23

Date: 29.JUL.2019 09:57:36

Highest Channel / 15MHz+15MHz	Highest Channel / 20MHz+20MHz
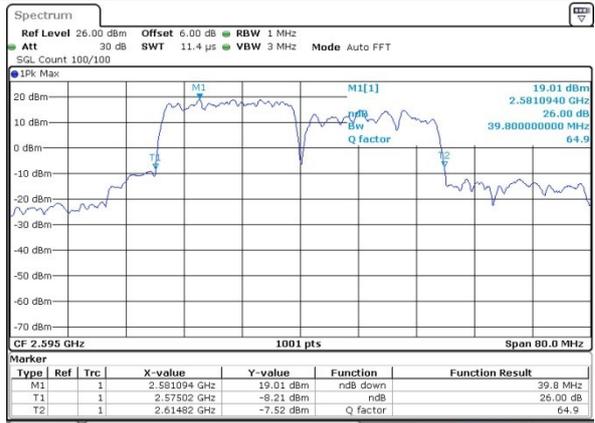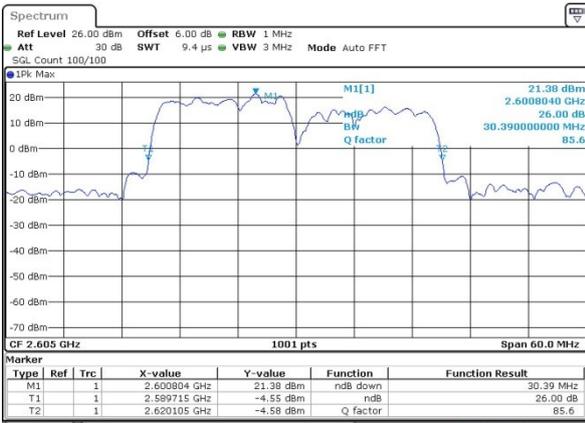
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Date: 29.JUL.2019 09:54:25
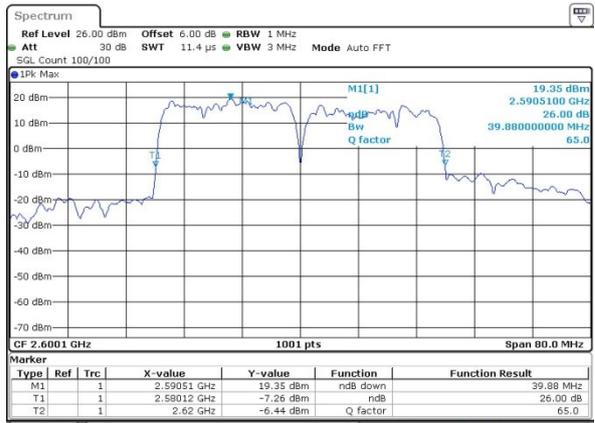
LTE Band 38
64QAM

Lowest Channel / 15MHz+15MHz	Lowest Channel / 20MHz+20MHz
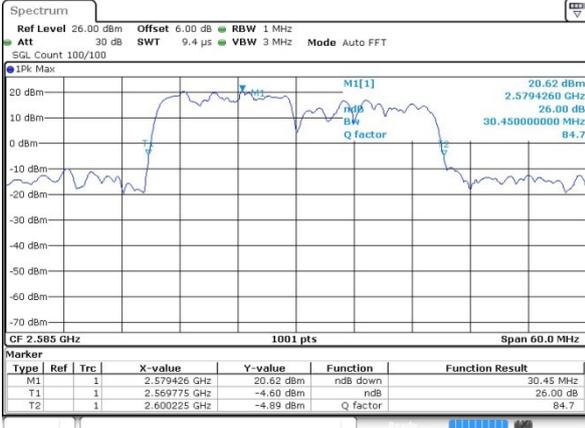
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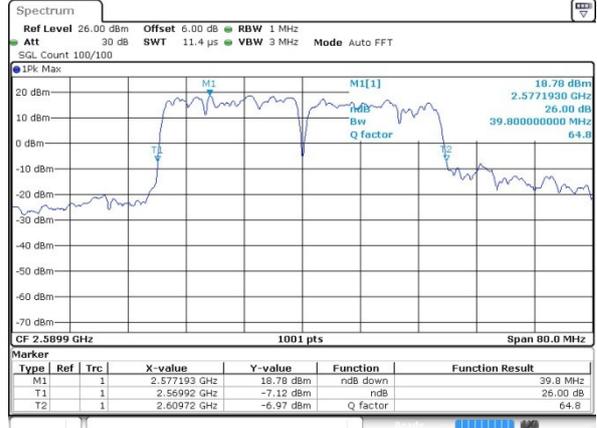
Date: 29.JUL.2019 10:00:29

Middle Channel / 15MHz+15MHz	Middle Channel / 20MHz+20MHz
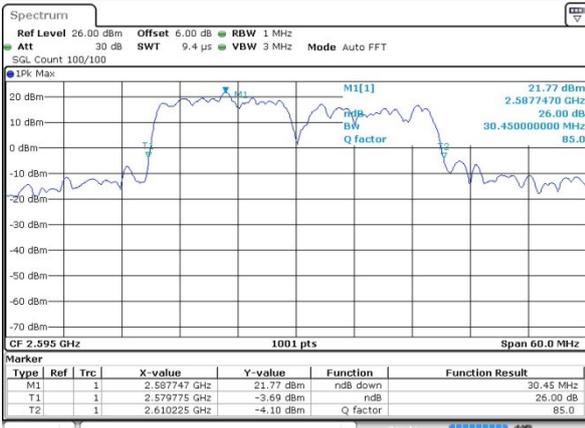
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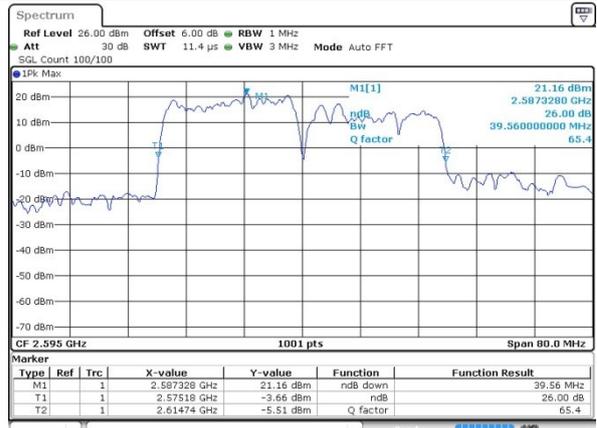
Date: 29.JUL.2019 09:57:08

Highest Channel / 15MHz+15MHz	Highest Channel / 20MHz+20MHz
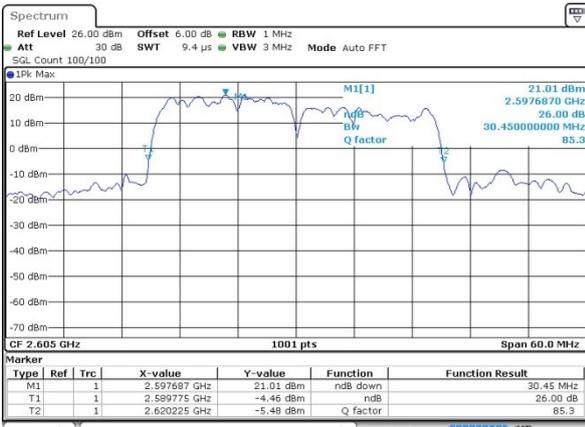
Date: 29.JUL.2019 09:35:04

Date: 29.JUL.2019 09:55:59

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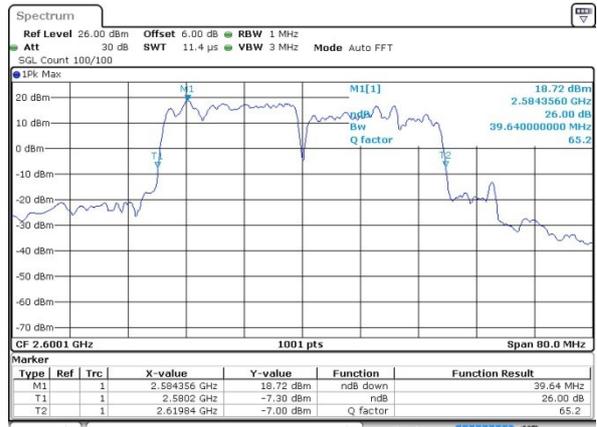
Occupied Bandwidth

Mode	LTE Band 2 : 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	1.10	1.10	2.71	2.72	4.50	4.47	8.99	9.07	13.40	13.40	18.26	18.42
Middle CH	1.10	1.10	2.72	2.72	4.48	4.49	9.07	9.05	13.46	13.52	18.38	18.42
Highest CH	1.09	1.10	2.73	2.72	4.51	4.52	8.95	9.01	13.52	13.52	18.42	18.58
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.52		9.07		13.46		18.54	
Middle CH	1.11		2.73		4.52		9.07		13.52		18.50	
Highest CH	1.10		2.73		4.53		9.13		13.52		18.34	

Mode	LTE Band 4 : 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	1.10	2.71	2.70	4.52	4.48	9.03	9.03	13.43	13.43	18.46	18.58
Middle CH	1.10	1.09	2.71	2.72	4.47	4.48	9.01	9.01	13.43	13.46	18.34	18.22
Highest CH	1.10	1.09	2.70	2.70	4.49	4.47	9.01	9.03	13.43	13.40	18.42	18.34
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.50		8.99		13.49		18.22	
Middle CH	1.09		2.70		4.48		9.01		13.49		18.34	
Highest CH	1.10		2.70		4.49		9.07		13.43		18.54	

Mode	LTE Band 5 : 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	1.10	2.72	2.69	4.49	4.48	9.01	9.03				
Middle CH	1.09	1.09	2.71	2.71	4.48	4.50	9.01	9.01				
Highest CH	1.09	1.10	2.70	2.72	4.50	4.50	9.01	8.97				
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.71		4.53		9.03					
Middle CH	1.09		2.70		4.50		9.01					
Highest CH	1.10		2.70		4.49		9.03					

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Mode	LTE Band 7 : 99%OBW(MHz)										
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.49	4.47	9.01	9.03	13.43	13.43	18.22	18.14
Middle CH					4.51	4.49	9.05	9.03	13.43	13.43	18.30	18.34
Highest CH					4.50	4.49	8.97	9.01	13.43	13.46	18.34	18.22
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.51		9.01		13.43		18.38	
Middle CH					4.50		9.07		13.40		18.34	
Highest CH					4.51		9.01		13.43		18.18	

Mode	LTE Band 38 : 99%OBW(MHz)										
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.5	4.52	9.03	9.01	13.46	13.49	18.14	18.3
Middle CH					4.47	4.49	9.01	8.97	13.46	13.43	18.14	18.3
Highest CH					4.49	4.49	9.05	8.99	13.43	13.4	18.18	18.42
Mode	LTE Band 38 : 99%OBW(MHz)										
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.47		8.97		13.4		18.22	
Middle CH					4.48		9.05		13.4		18.38	
Highest CH					4.51		8.99		13.37		18.3	

Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.93		23.38	28.65
Middle CH	27.87		23.13	27.99
Highest CH	27.99		22.88	28.83
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	27.75	32.87	37.72
Middle CH	32.52	27.69	32.66	37.16
Highest CH	32.8	27.81	32.87	37.56

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.75		23.18	28.65
Middle CH	27.75		23.23	28.11
Highest CH	28.11		23.23	28.17
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.73	28.05	32.38	37.80
Middle CH	32.8	27.87	33.15	37.56
Highest CH	32.73	27.87	32.73	37.64

Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.93		23.18	28.41
Middle CH	27.87		23.33	28.53
Highest CH	27.99		23.03	28.41
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.59	27.81	32.8	37.32
Middle CH	32.52	27.93	32.66	37.48
Highest CH	32.38	27.93	32.59	37.48

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.77	37.64	28.59	37.48
Middle CH	28.47	37.40	28.71	37.72
Highest CH	28.77	37.56	28.29	37.48

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	28.35	37.4	-	-
Middle CH	28.35	37.56	-	-
Highest CH	28.47	37.56	-	--

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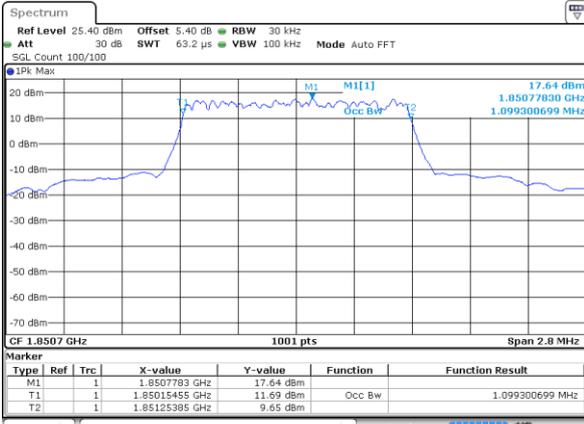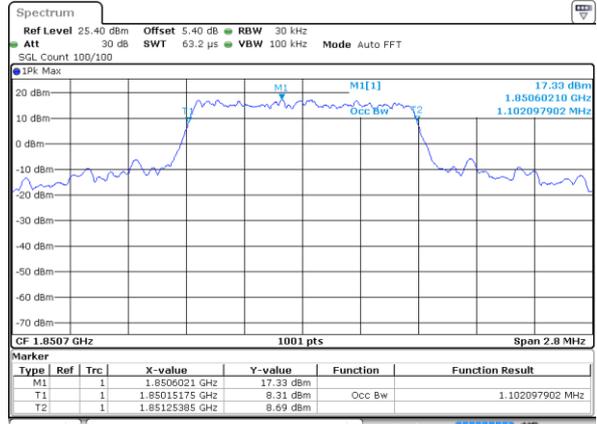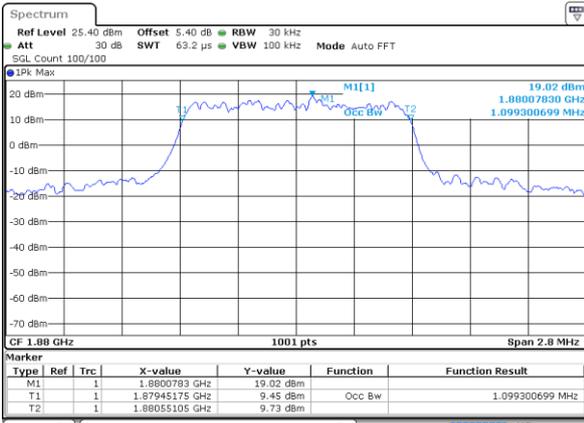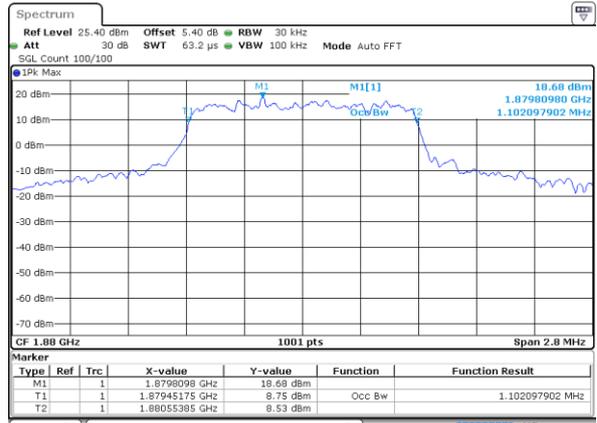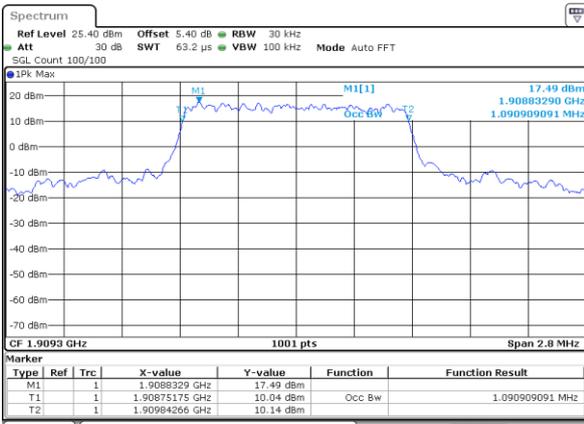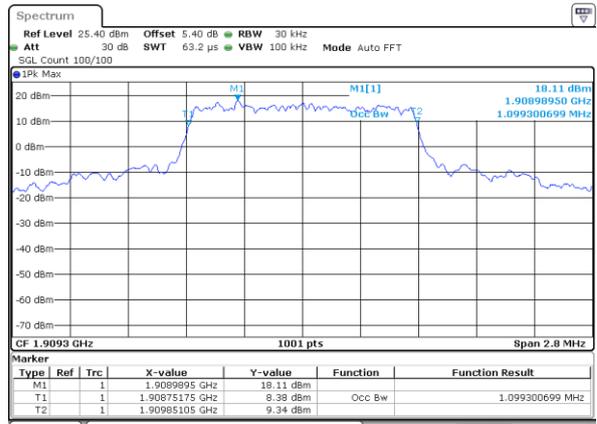
LTE Band 2
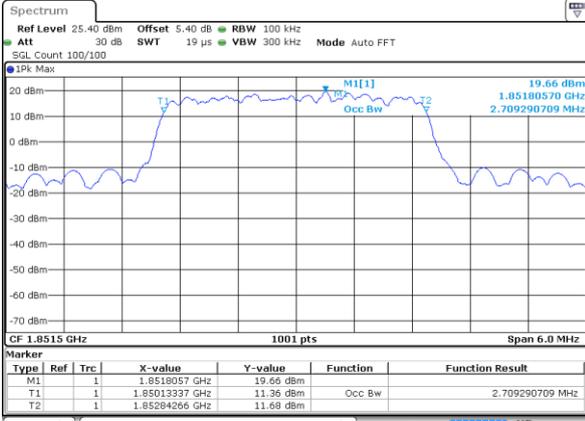
Lowest Channel / 3MHz / QPSK	Lowest Channel / 3MHz / 16QAM
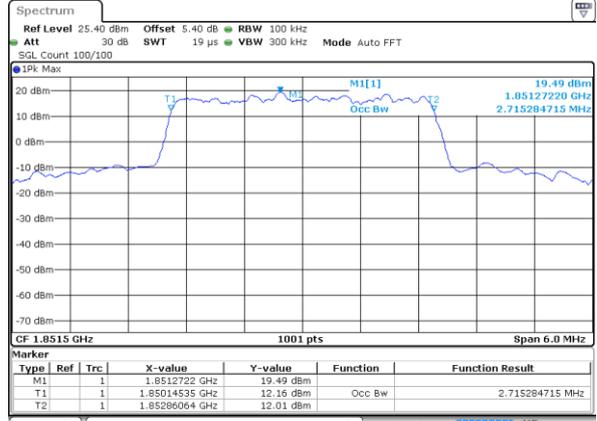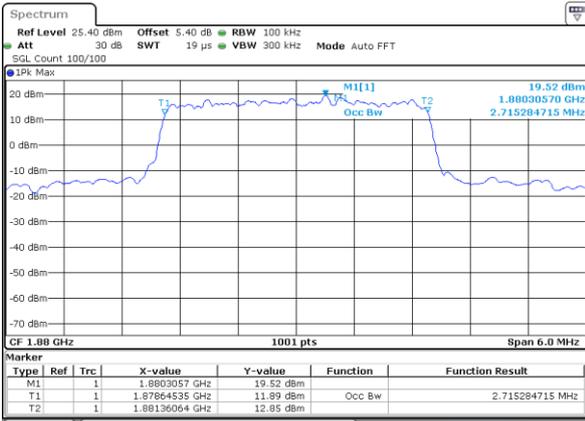
Middle Channel / 3MHz / QPSK	Middle Channel / 3MHz / 16QAM
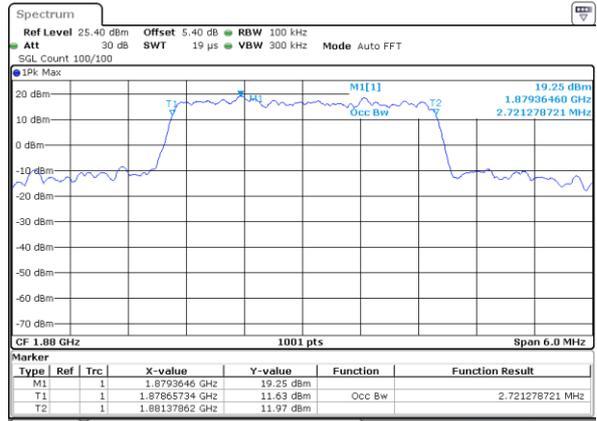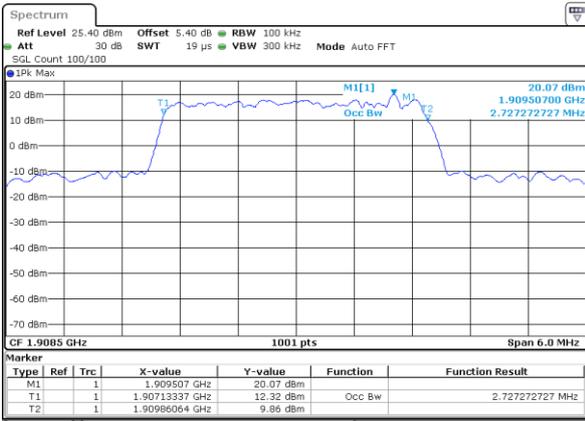
Highest Channel / 3MHz / QPSK	Highest Channel / 3MHz / 16QAM

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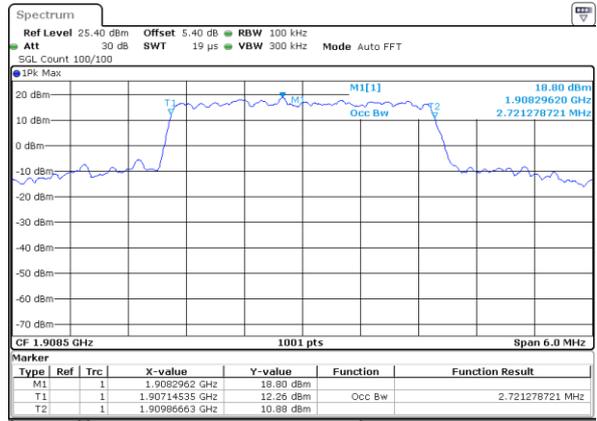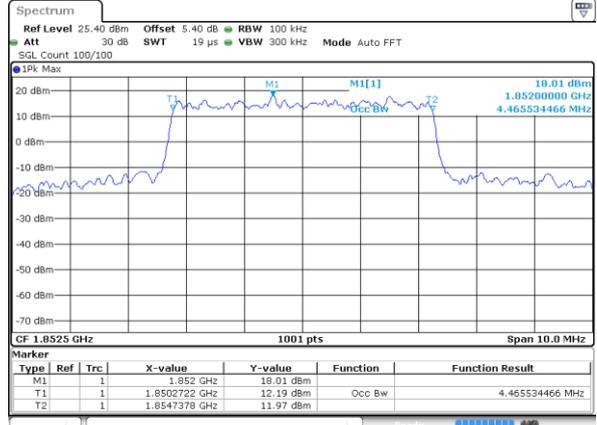
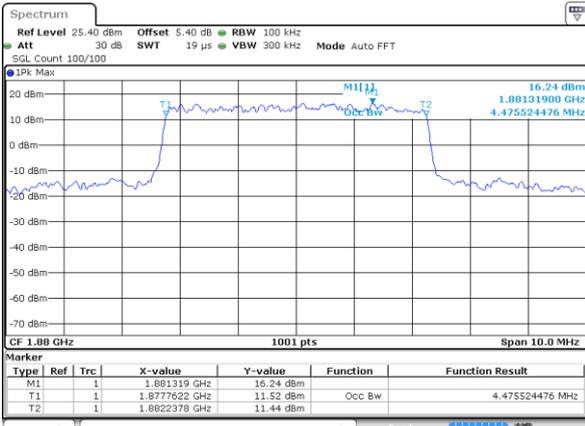## LTE Band 2

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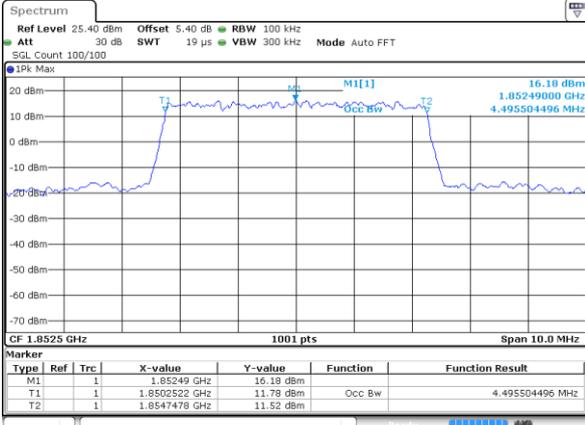
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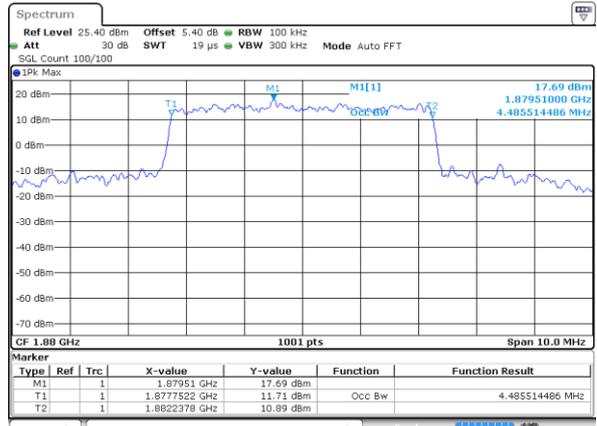
Lowest Channel / 5MHz / 16QAM

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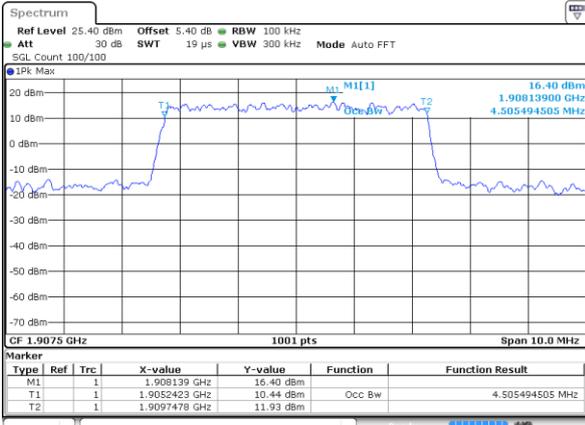
Middle Channel / 5MHz / QPSK

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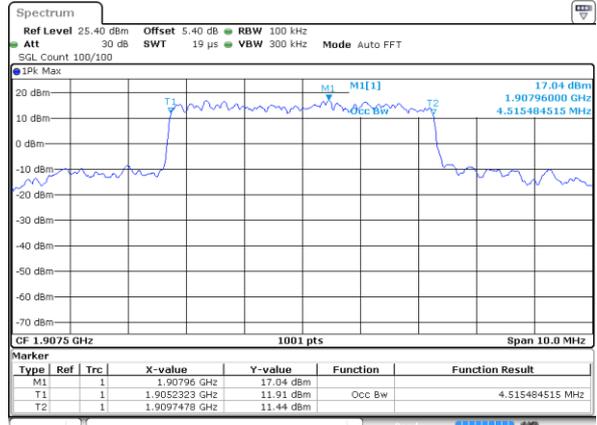
Middle Channel / 5MHz / 16QAM

Date: 25.JUL.2019 20:55:50

Highest Channel / 5MHz / QPSK

Date: 25.JUL.2019 20:58:10

Highest Channel / 5MHz / 16QAM

Date: 25.JUL.2019 20:58:20

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