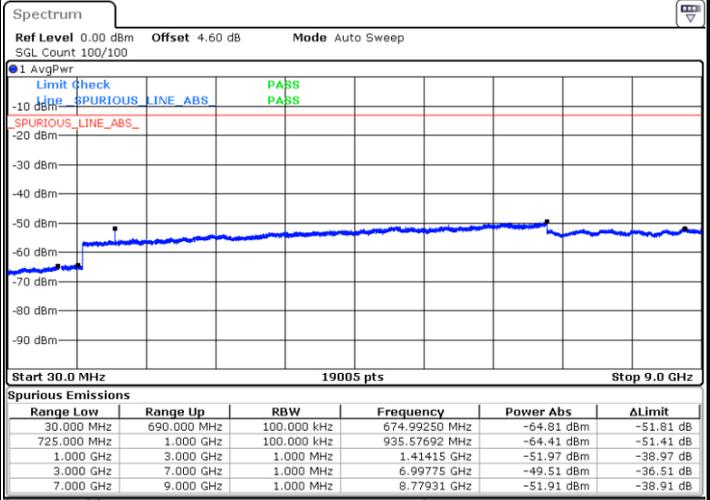
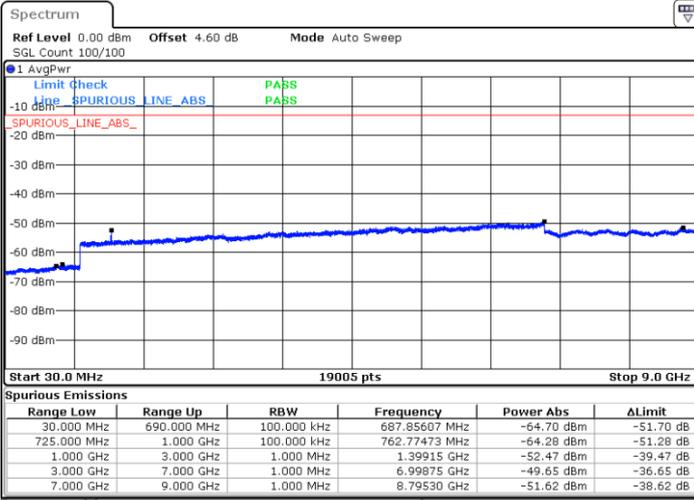




LTE Band 12 / 1.4MHz

Lowest Channel / 256QAM

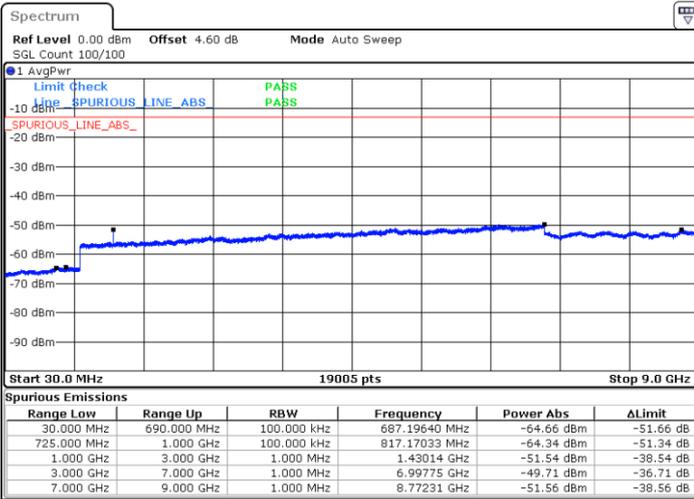
Middle Channel / 256QAM



Date: 16.NOV.2020 18:11:59

Date: 16.NOV.2020 18:13:50

Highest Channel / 256QAM



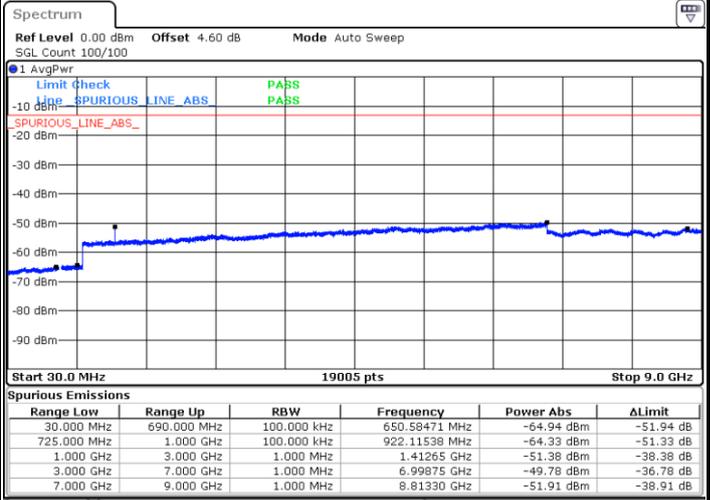
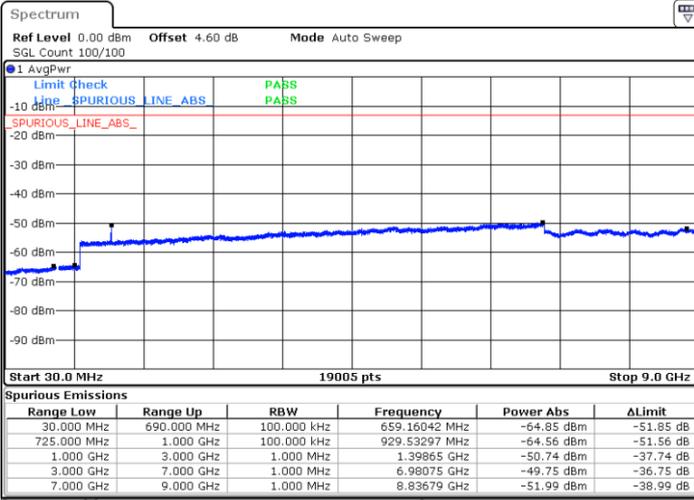
Date: 16.NOV.2020 18:16:55



LTE Band 12 / 3MHz

Lowest Channel / 256QAM

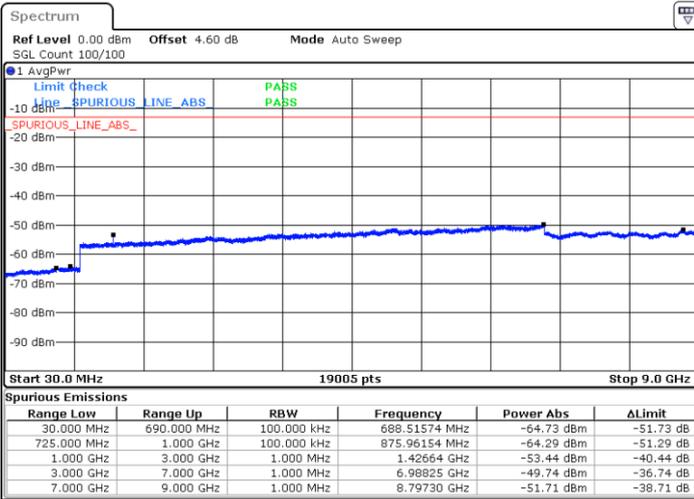
Middle Channel / 256QAM



Date: 16.NOV.2020 19:03:55

Date: 16.NOV.2020 19:05:10

Highest Channel / 256QAM



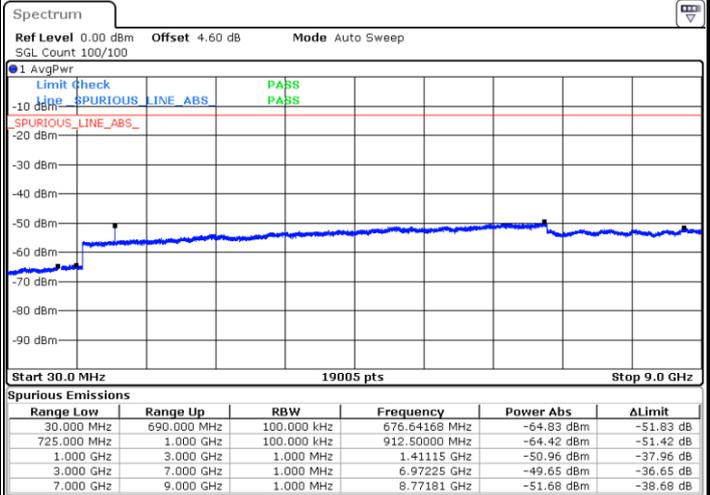
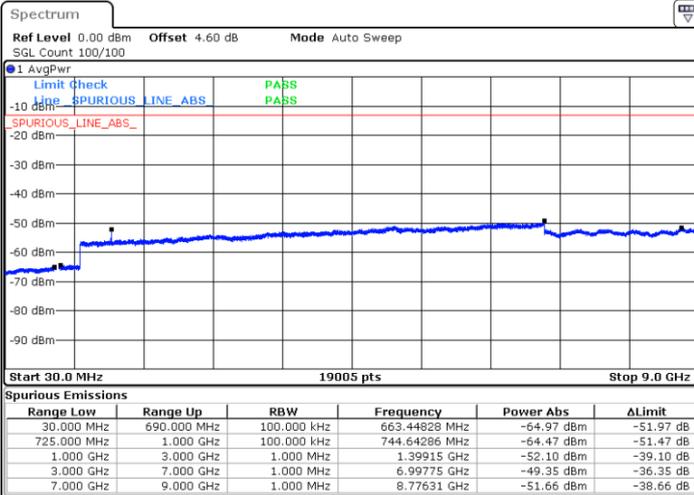
Date: 16.NOV.2020 19:08:05



LTE Band 12 / 5MHz

Lowest Channel / 256QAM

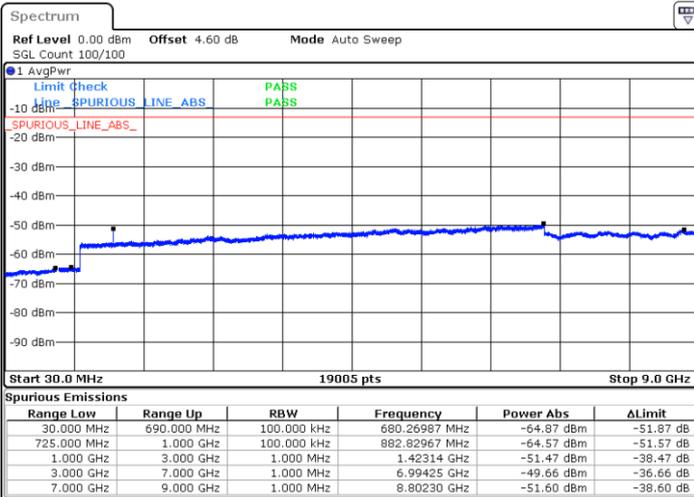
Middle Channel / 256QAM



Date: 16.NOV.2020 19:13:39

Date: 16.NOV.2020 19:14:31

Highest Channel / 256QAM



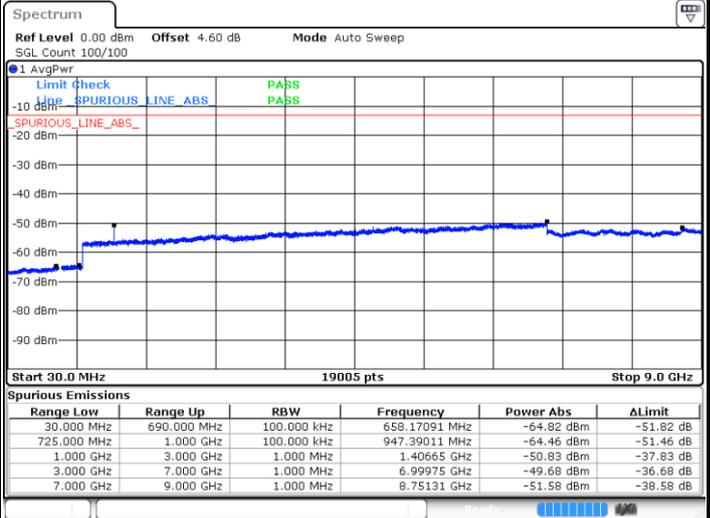
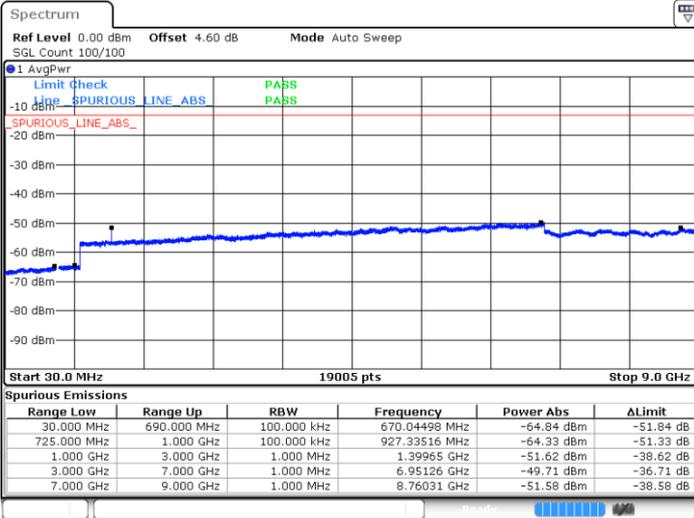
Date: 16.NOV.2020 19:16:54



LTE Band 12 / 10MHz

Lowest Channel / 256QAM

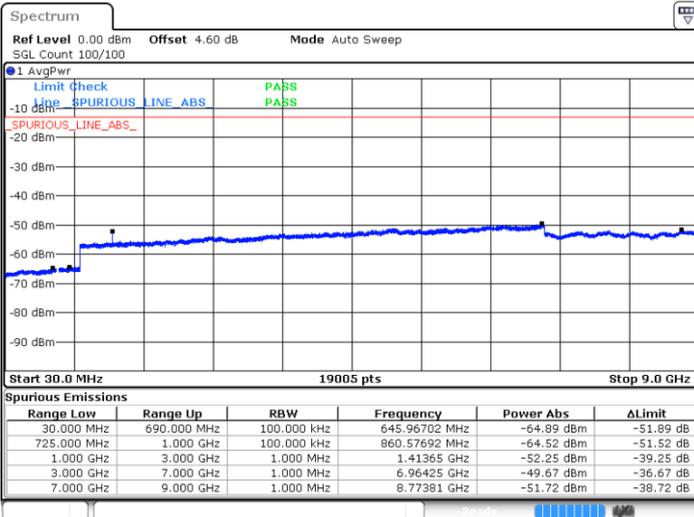
Middle Channel / 256QAM



Date: 16.NOV.2020 19:26:14

Date: 16.NOV.2020 19:26:48

Highest Channel / 256QAM



Date: 16.NOV.2020 19:29:29



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 66

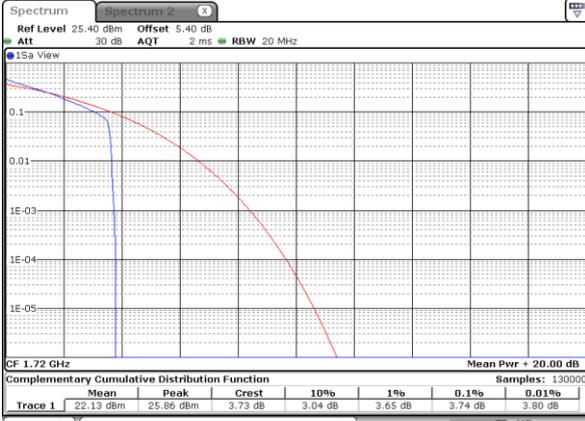
## Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.75	4.41	5.68	<b>PASS</b>
Middle CH	3.80	4.70	4.72	5.86	
Highest CH	3.59	4.87	5.28	5.88	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.78	6.41	6.26	6.58	<b>PASS</b>
Middle CH	6.72	6.52	6.72	6.58	
Highest CH	6.46	6.46	6.49	6.49	



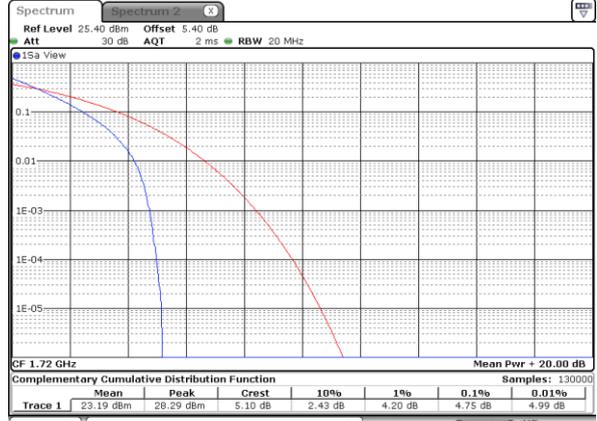
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



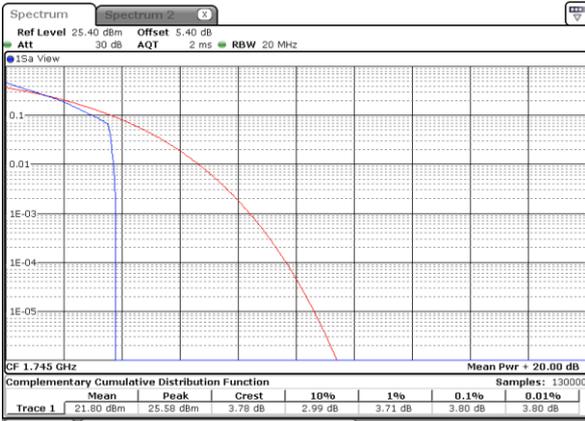
Date: 5 NOV 2020 23:12:12

Lowest Channel / Full RB



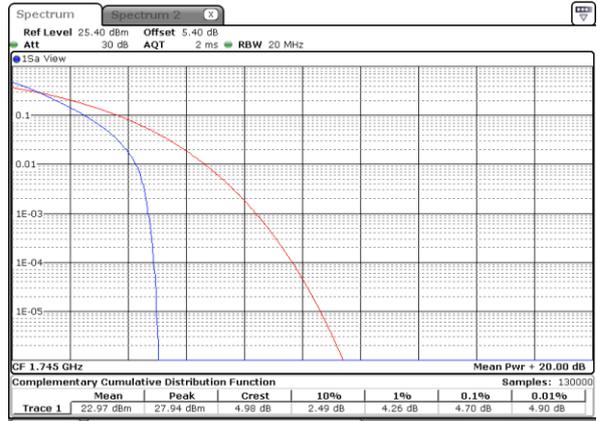
Date: 5 NOV 2020 23:12:32

Middle Channel / 1RB



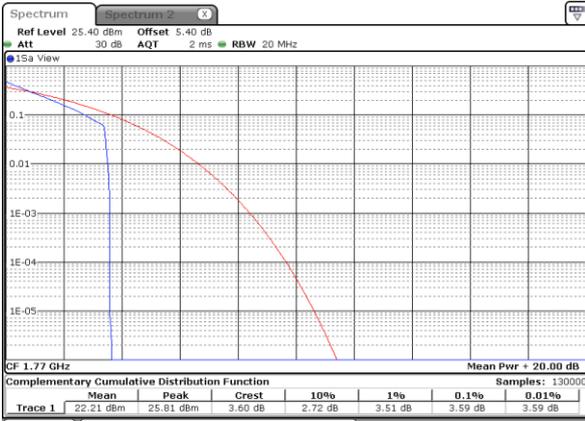
Date: 5 NOV 2020 23:10:41

Middle Channel / Full RB



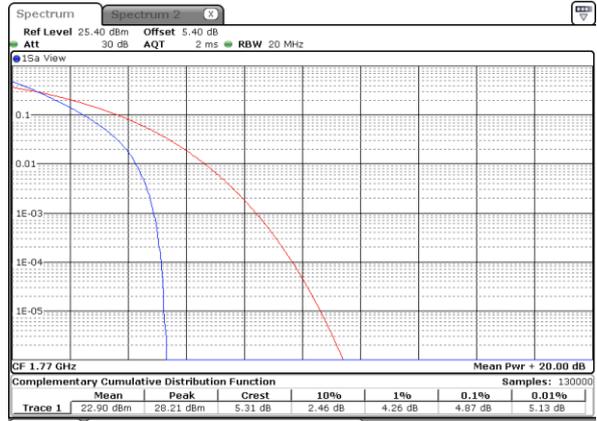
Date: 5 NOV 2020 23:09:24

Highest Channel / 1RB



Date: 5 NOV 2020 23:06:16

Highest Channel / Full RB

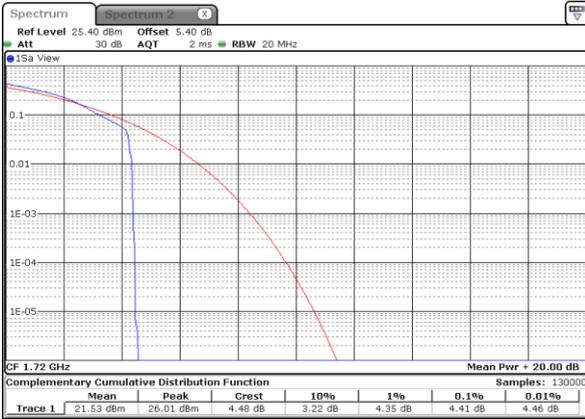


Date: 5 NOV 2020 23:06:40



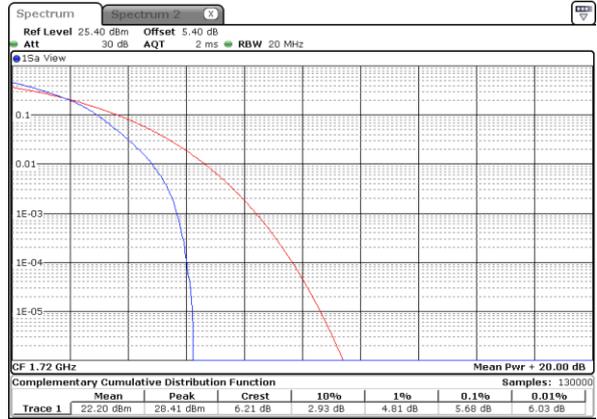
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



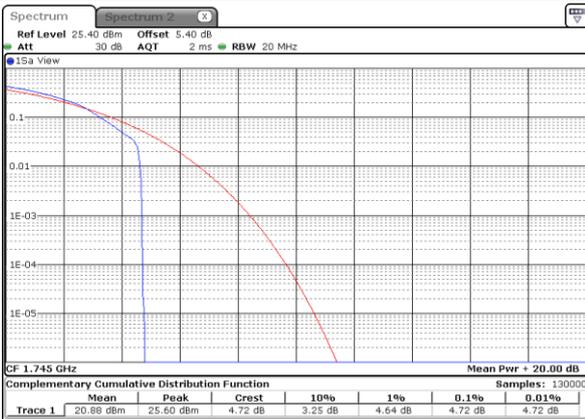
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Lowest Channel / Full RB



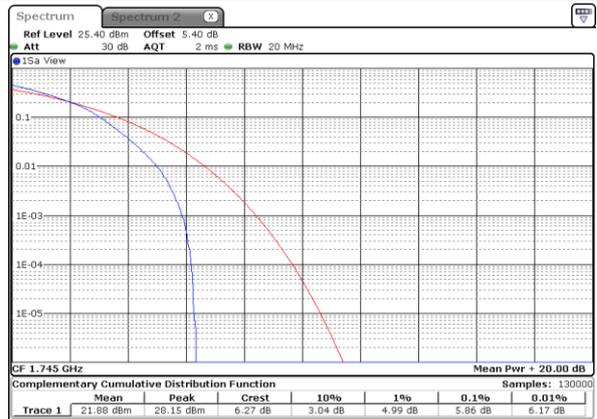
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Middle Channel / 1RB



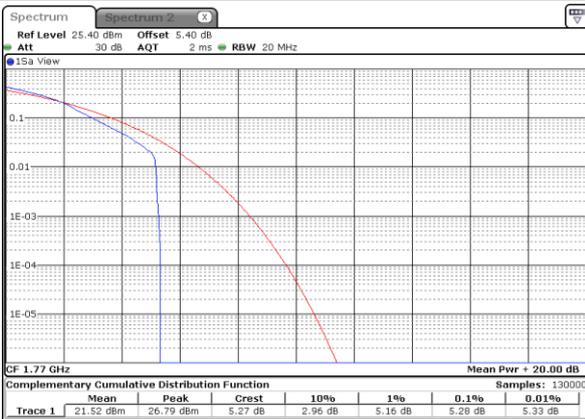
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Middle Channel / Full RB



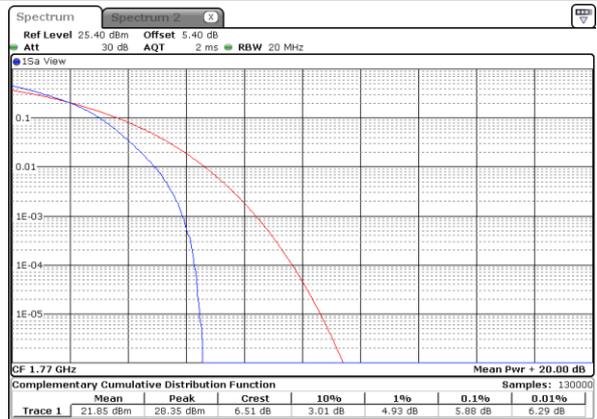
Date: 5 NOV 2020 23:09:09

Highest Channel / 1RB



Date: 5 NOV 2020 23:06:02

Highest Channel / Full RB

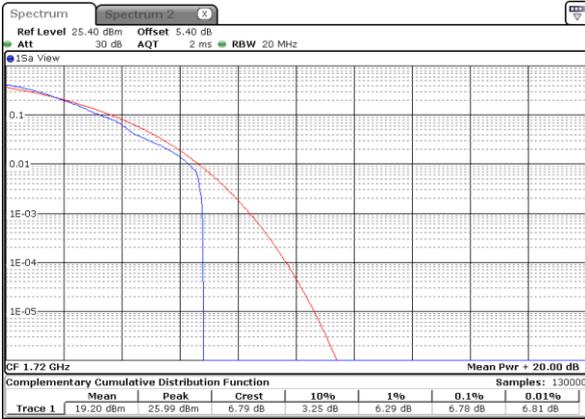


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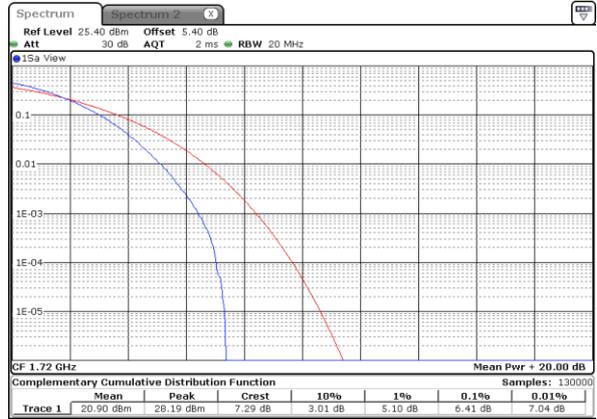
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



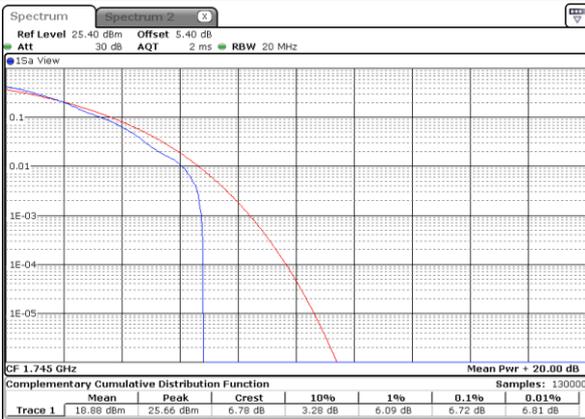
Date: 5 NOV 2020 23:11:46

Lowest Channel / Full RB



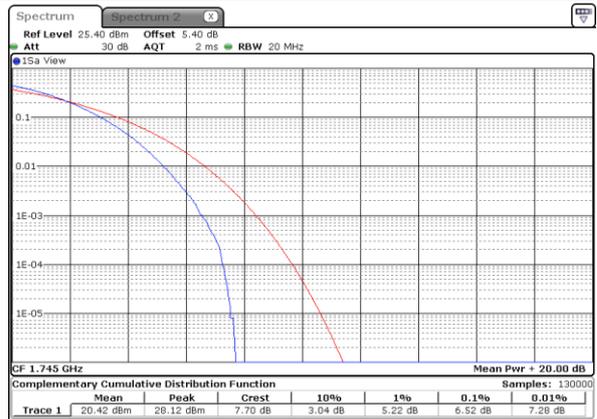
Date: 5 NOV 2020 23:13:07

Middle Channel / 1RB



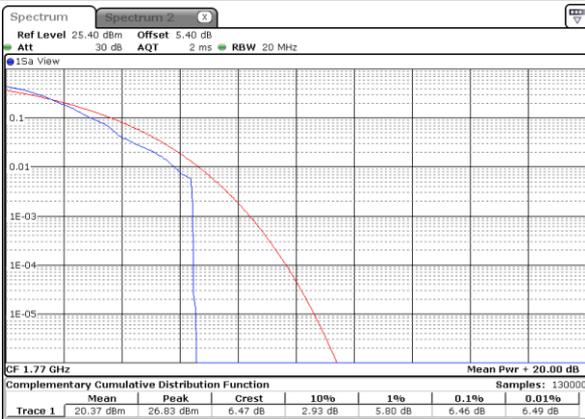
Date: 5 NOV 2020 23:11:10

Middle Channel / Full RB



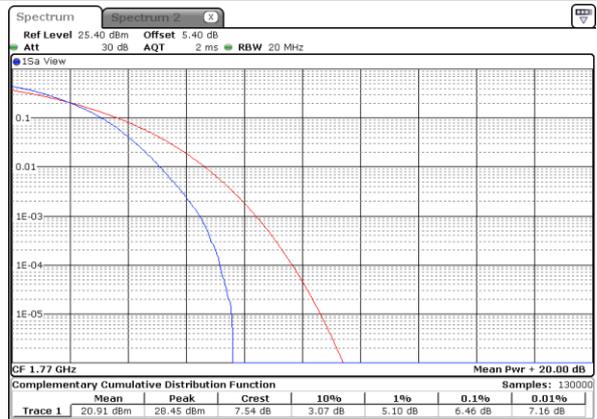
Date: 5 NOV 2020 23:08:52

Highest Channel / 1RB



Date: 5 NOV 2020 23:05:45

Highest Channel / Full RB



Date: 5 NOV 2020 23:07:41



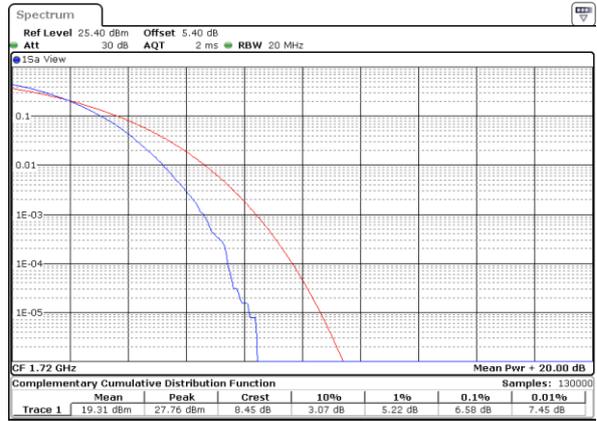
LTE Band 66 / 20MHz / 256QAM

Lowest Channel / 1RB



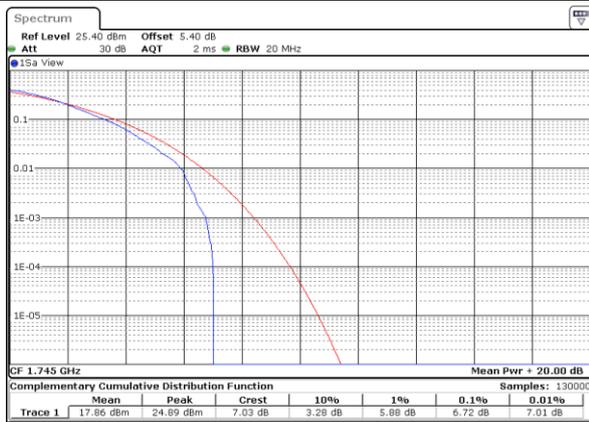
Date: 13.NOV.2020 20:19:34

Lowest Channel / Full RB



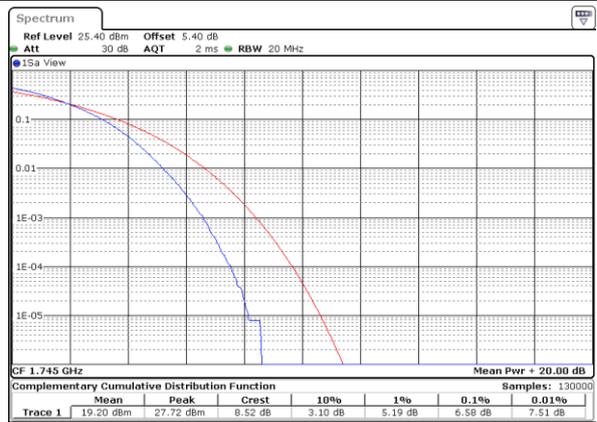
Date: 13.NOV.2020 20:19:18

Middle Channel / 1RB



Date: 13.NOV.2020 20:18:37

Middle Channel / Full RB



Date: 13.NOV.2020 20:18:52

Highest Channel / 1RB



Date: 13.NOV.2020 20:18:19

Highest Channel / Full RB



Date: 13.NOV.2020 20:18:06



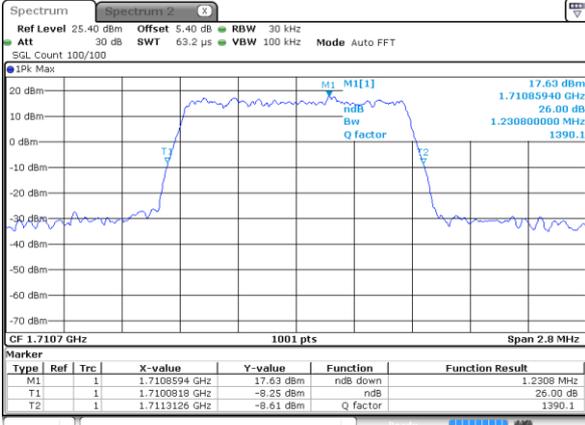
26dB Bandwidth

Mode	LTE Band 66 : 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	1.23	1.21	3.07	3.00	4.93	4.87	9.73	9.65	14.36	14.36	20.30	20.10
Middle CH	1.21	1.23	3.02	3.04	4.84	5.01	9.65	9.77	14.36	14.18	20.22	19.98
Highest CH	1.23	1.22	2.98	3.03	4.96	4.91	9.85	9.77	14.54	14.12	20.22	20.02
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	1.23	1.23	3.03	3.02	4.90	4.84	9.71	9.67	14.57	14.39	20.30	20.06
Middle CH	1.23	1.23	2.99	3.02	4.85	4.92	9.81	9.73	14.33	14.39	20.22	20.22
Highest CH	1.21	1.22	2.99	3	4.90	4.81	9.77	9.83	14.42	14.18	20.14	20.1



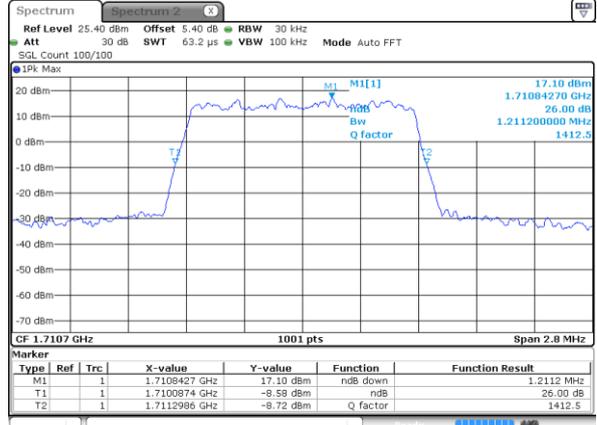
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



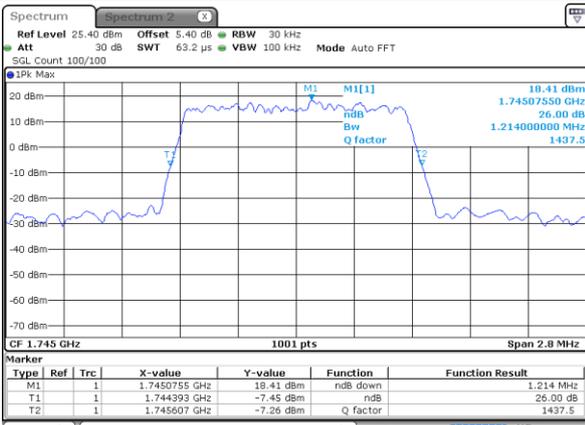
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Lowest Channel / 1.4MHz / 16QAM



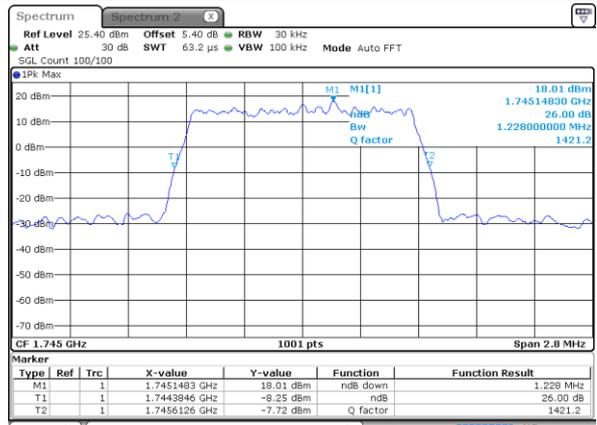
Date: 5 NOV 2020 19:55:50

Middle Channel / 1.4MHz / QPSK



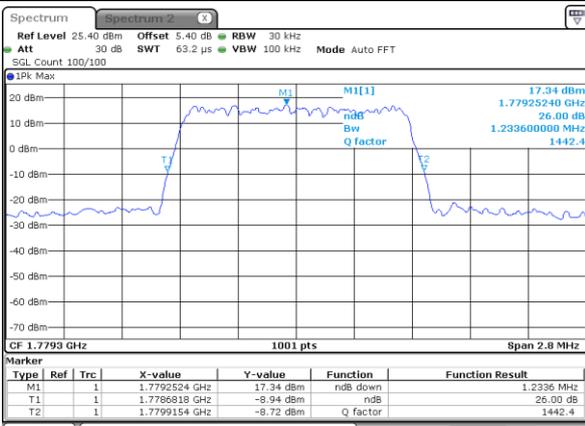
Date: 5 NOV 2020 20:20:24

Middle Channel / 1.4MHz / 16QAM



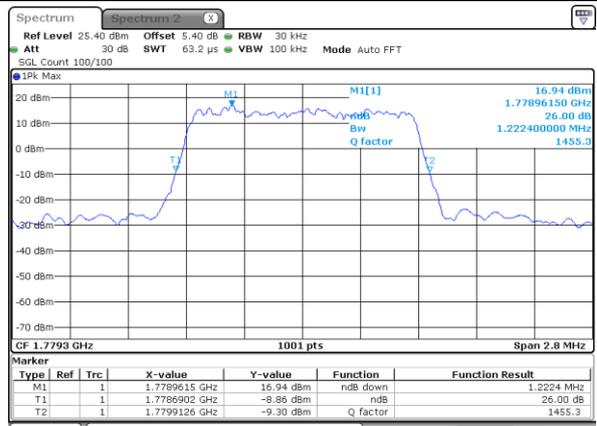
Date: 5 NOV 2020 20:20:02

Highest Channel / 1.4MHz / QPSK



Date: 5 NOV 2020 20:21:39

Highest Channel / 1.4MHz / 16QAM

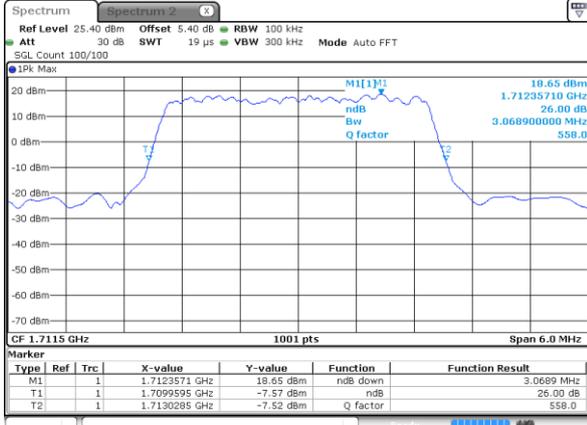


Date: 5 NOV 2020 20:25:12



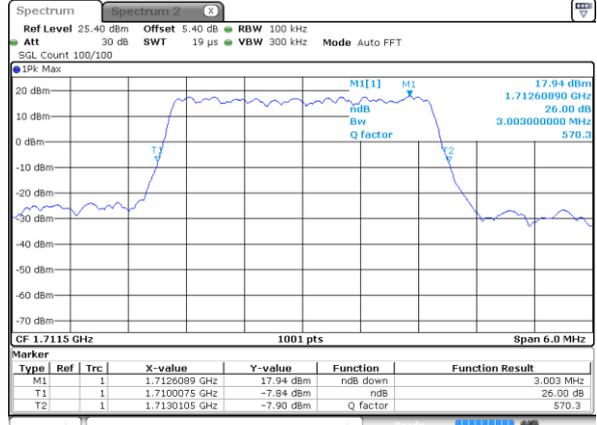
LTE Band 66

Lowest Channel / 3MHz / QPSK



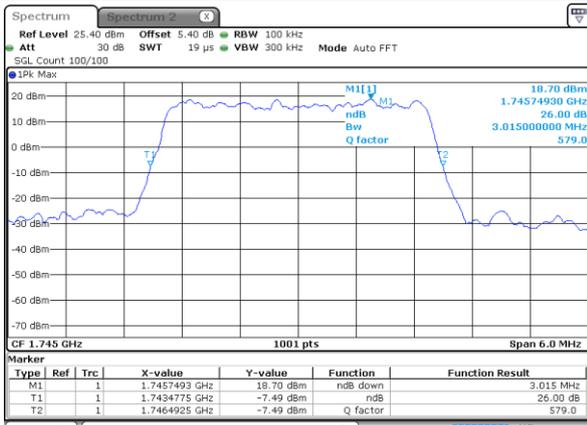
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Lowest Channel / 3MHz / 16QAM



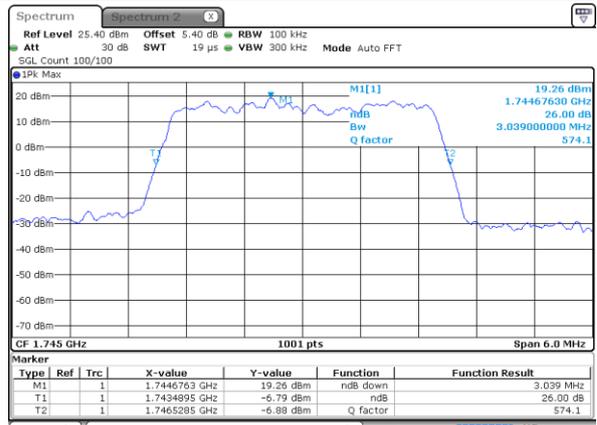
Date: 5 NOV 2020 20:39:55

Middle Channel / 3MHz / QPSK



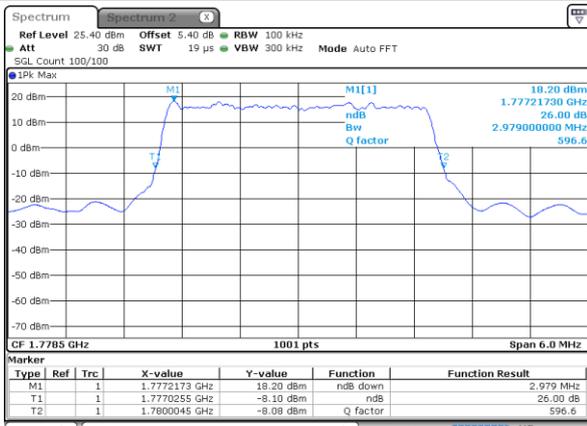
Date: 5 NOV 2020 20:55:46

Middle Channel / 3MHz / 16QAM



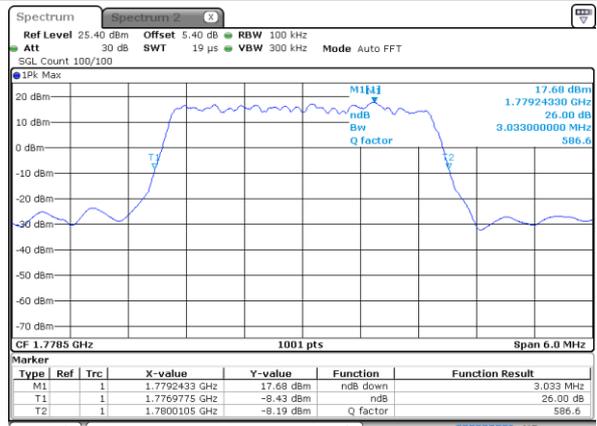
Date: 5 NOV 2020 20:55:22

Highest Channel / 3MHz / QPSK



Date: 5 NOV 2020 20:56:37

Highest Channel / 3MHz / 16QAM

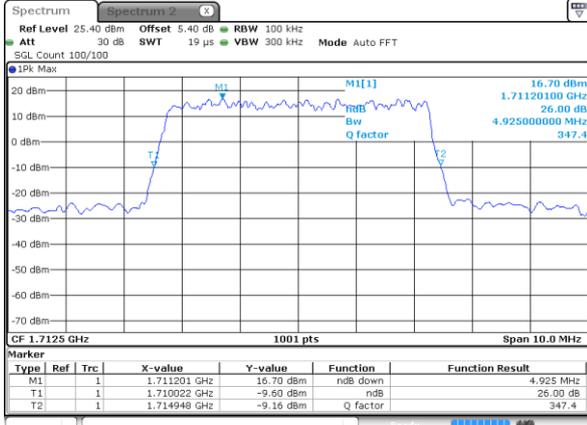


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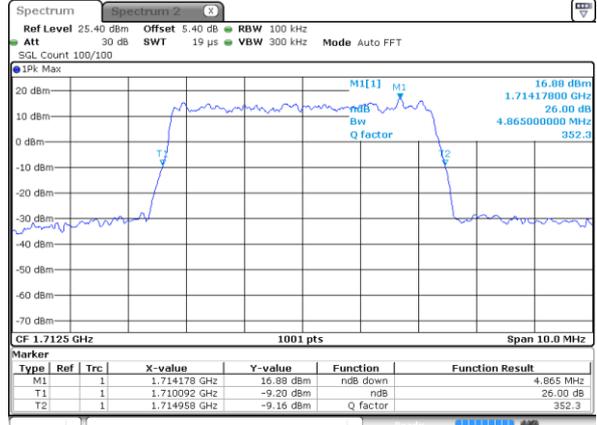
LTE Band 66

Lowest Channel / 5MHz / QPSK



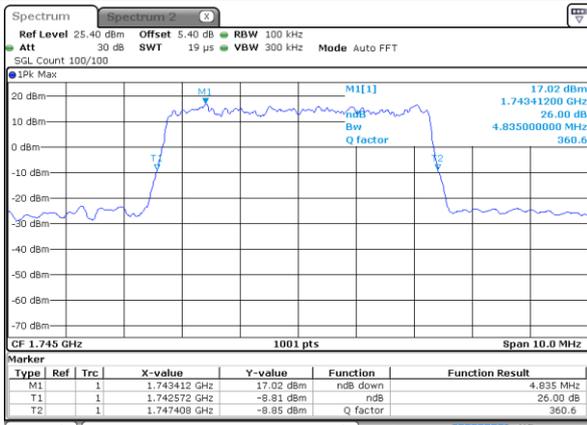
Date: 5 NOV 2020 21:13:27

Lowest Channel / 5MHz / 16QAM



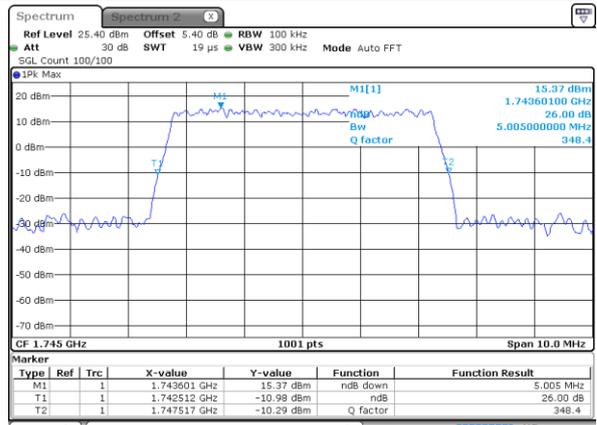
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Middle Channel / 5MHz / QPSK



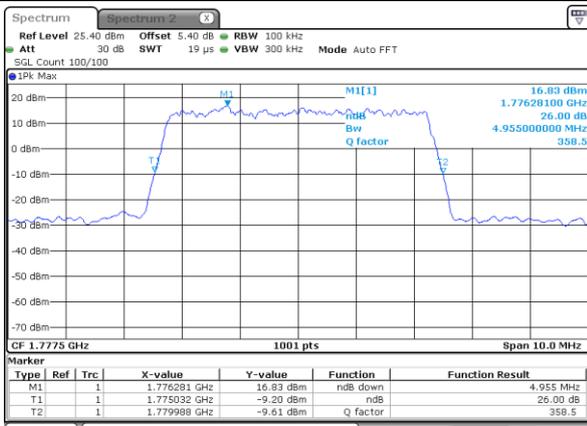
Date: 5 NOV 2020 21:25:27

Middle Channel / 5MHz / 16QAM



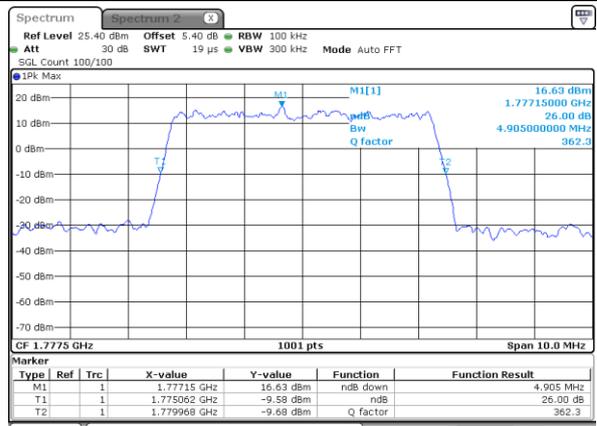
Date: 5 NOV 2020 21:24:59

Highest Channel / 5MHz / QPSK



Date: 5 NOV 2020 21:26:14

Highest Channel / 5MHz / 16QAM

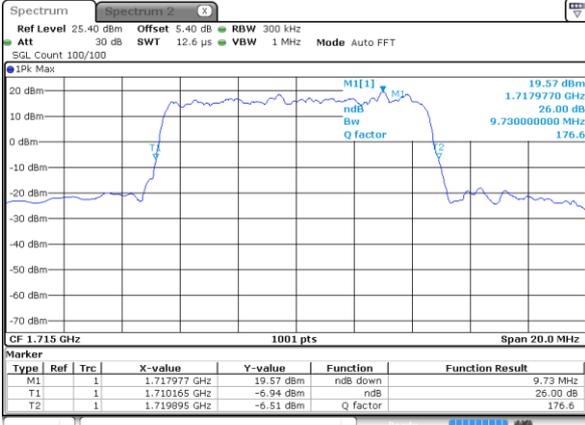


Date: 5 NOV 2020 21:27:02



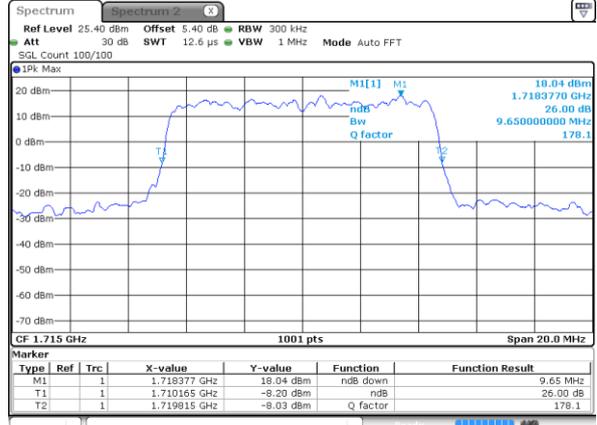
LTE Band 66

Lowest Channel / 10MHz / QPSK



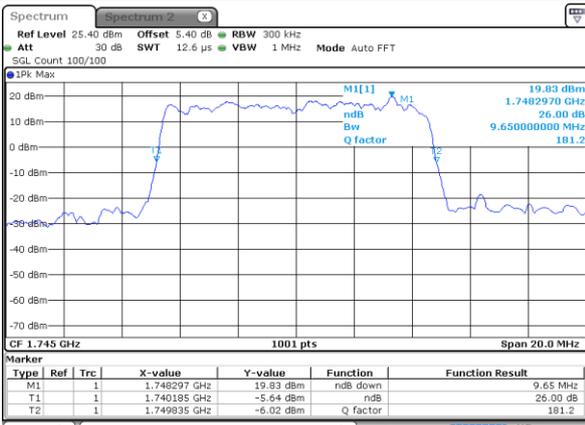
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Lowest Channel / 10MHz / 16QAM



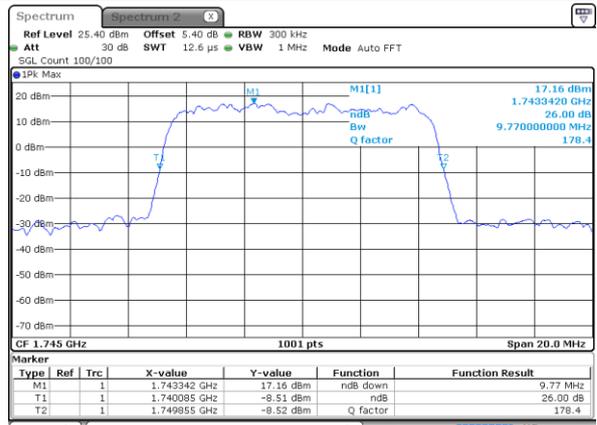
Date: 5 NOV 2020 21:35:59

Middle Channel / 10MHz / QPSK



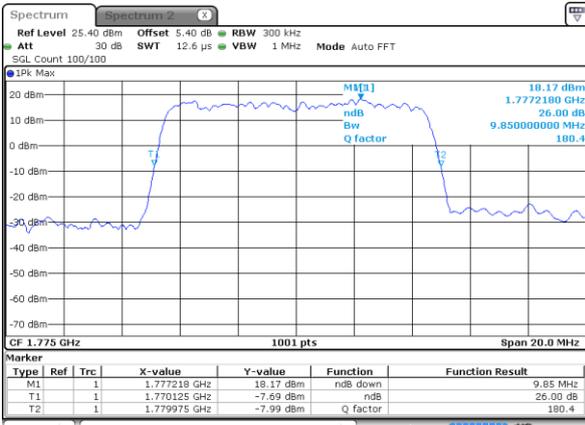
Date: 5 NOV 2020 21:58:26

Middle Channel / 10MHz / 16QAM



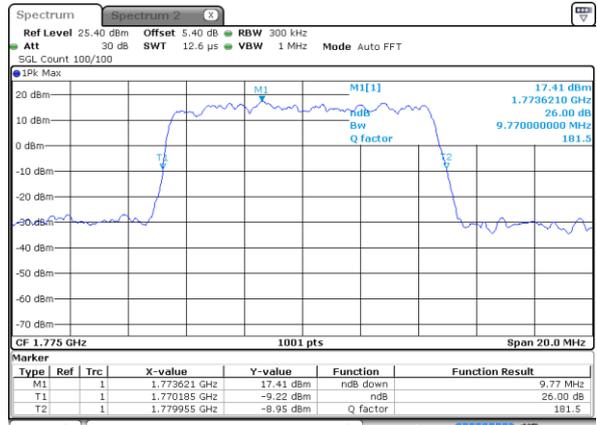
Date: 5 NOV 2020 21:58:06

Highest Channel / 10MHz / QPSK



Date: 5 NOV 2020 22:02:16

Highest Channel / 10MHz / 16QAM

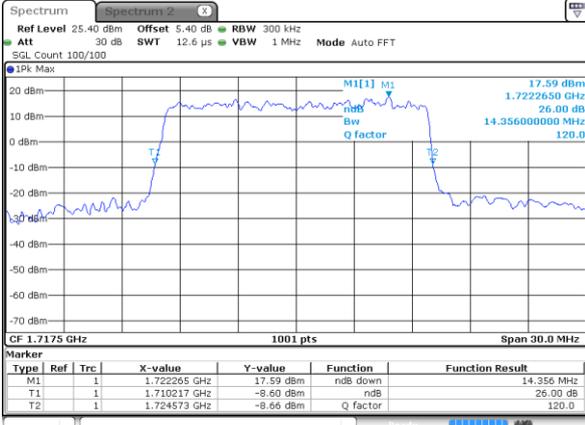


Date: 5 NOV 2020 22:01:41



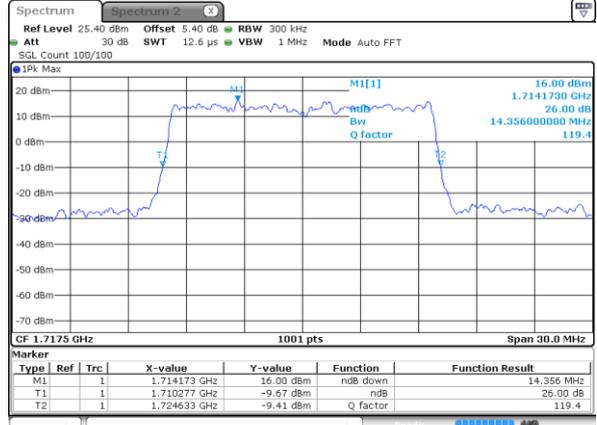
LTE Band 66

Lowest Channel / 15MHz / QPSK



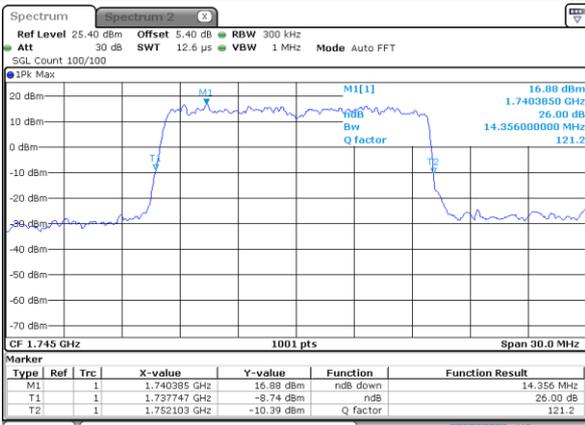
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Lowest Channel / 15MHz / 16QAM



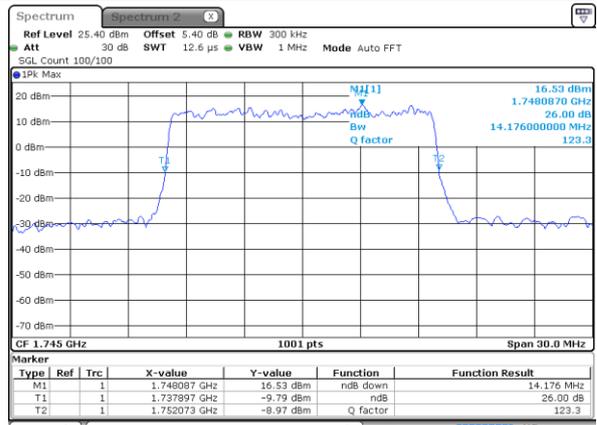
Date: 5 NOV 2020 22:13:11

Middle Channel / 15MHz / QPSK



Date: 5 NOV 2020 22:22:20

Middle Channel / 15MHz / 16QAM



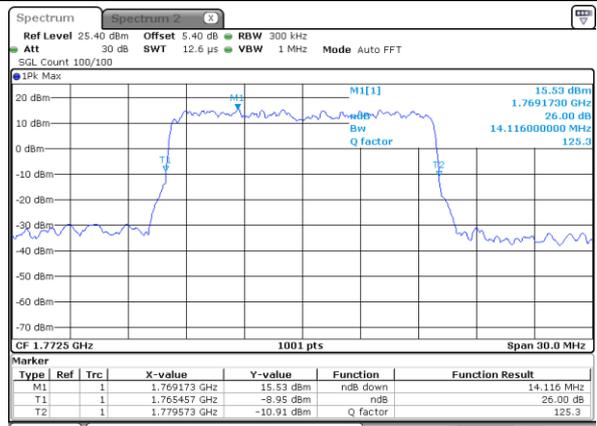
Date: 5 NOV 2020 22:22:39

Highest Channel / 15MHz / QPSK



Date: 5 NOV 2020 22:26:04

Highest Channel / 15MHz / 16QAM

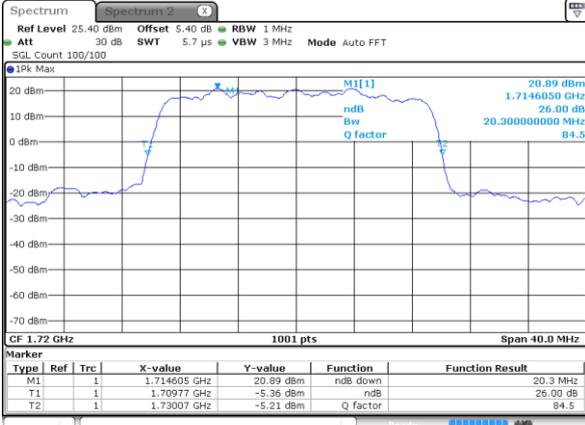


Date: 5 NOV 2020 22:25:21



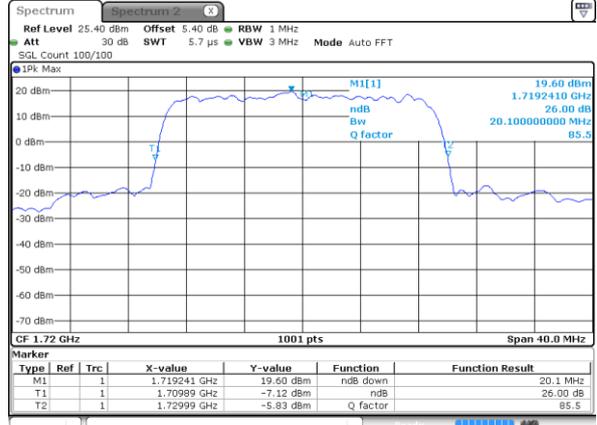
LTE Band 66

Lowest Channel / 20MHz / QPSK



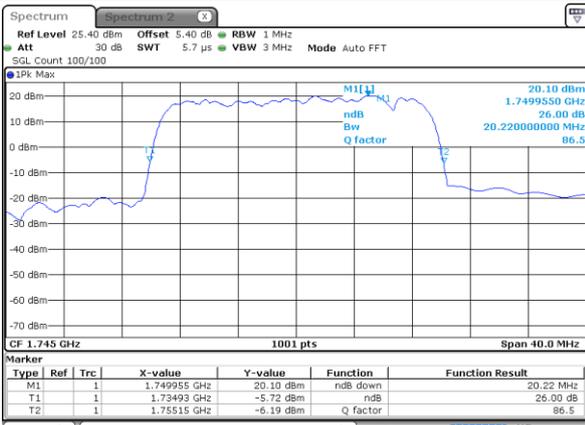
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Lowest Channel / 20MHz / 16QAM



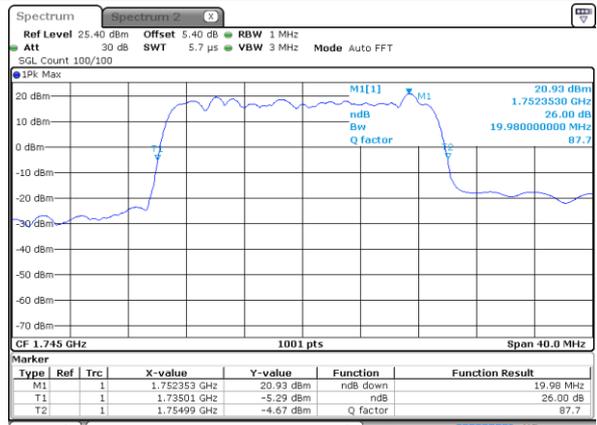
Date: 5 NOV 2020 22:37:21

Middle Channel / 20MHz / QPSK



Date: 5 NOV 2020 22:51:49

Middle Channel / 20MHz / 16QAM



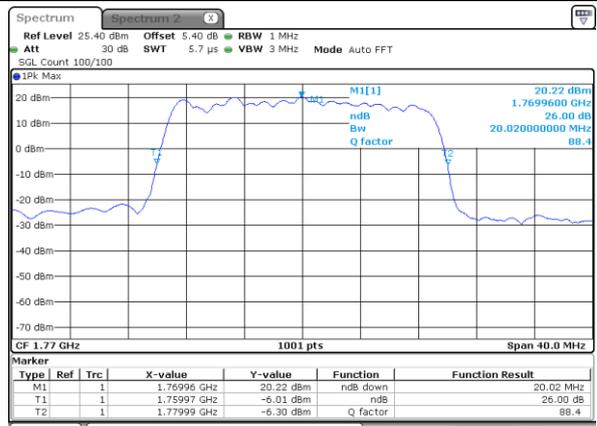
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Highest Channel / 20MHz / QPSK



Date: 5 NOV 2020 22:53:04

Highest Channel / 20MHz / 16QAM

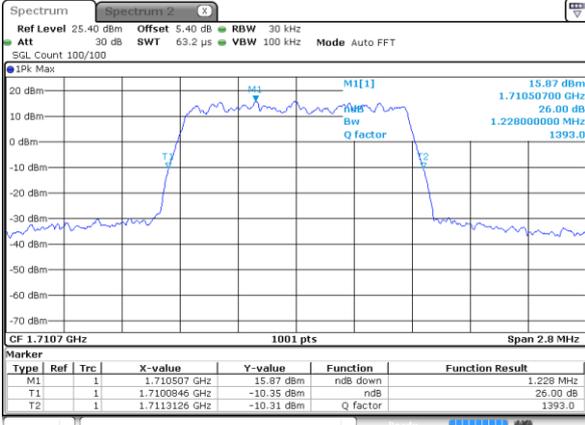


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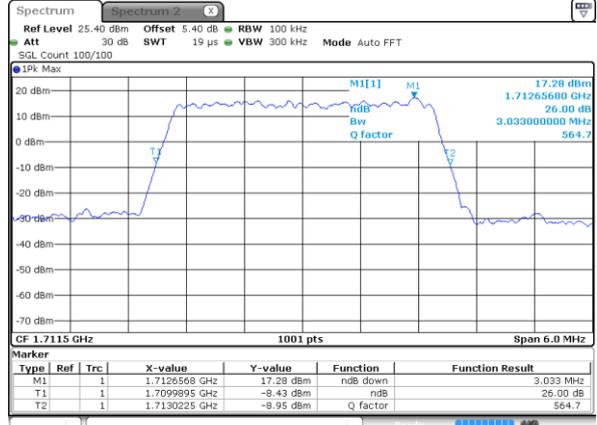
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



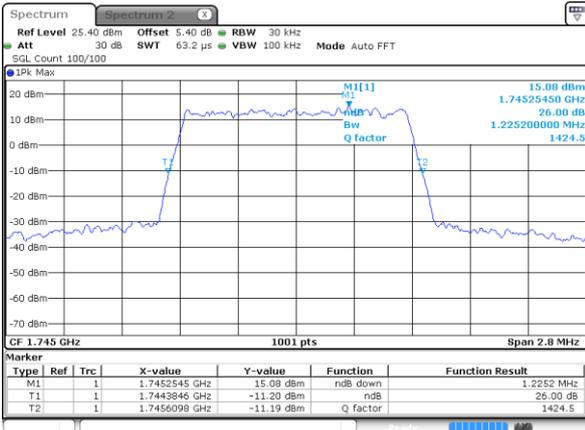
Date: 5 NOV 2020 19:57:43

Lowest Channel / 3MHz / 64QAM



Date: 5 NOV 2020 20:41:05

Middle Channel / 20MHz / 64QAM



Date: 5 NOV 2020 20:19:39

Middle Channel / 3MHz / 64QAM



Date: 5 NOV 2020 20:54:41

Highest Channel / 20MHz / 64QAM



Date: 5 NOV 2020 20:28:32

Highest Channel / 3MHz / 64QAM

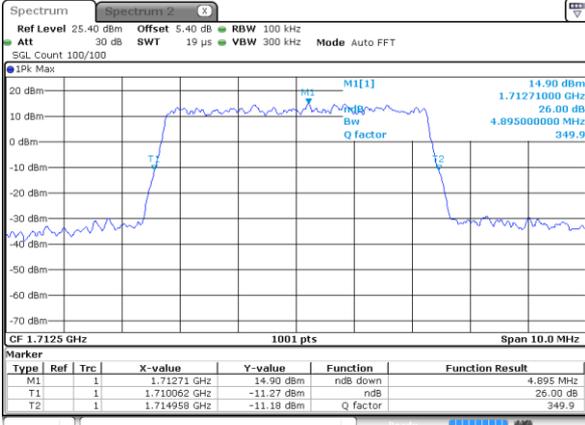


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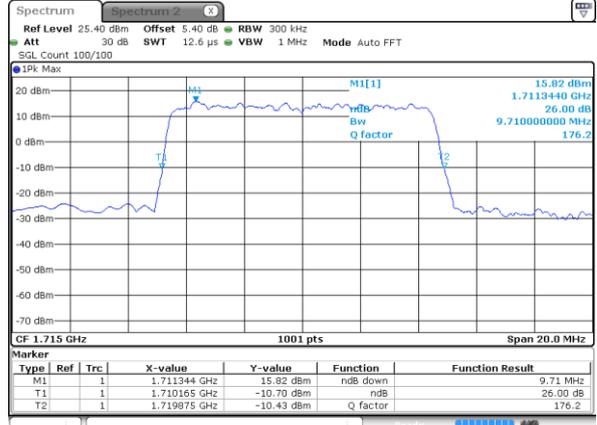
LTE Band 66

Lowest Channel / 5MHz / 64QAM



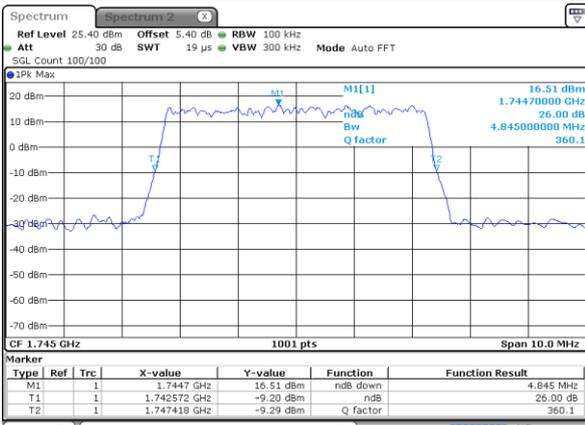
Date: 5 NOV 2020 21:15:29

Lowest Channel / 10MHz / 64QAM



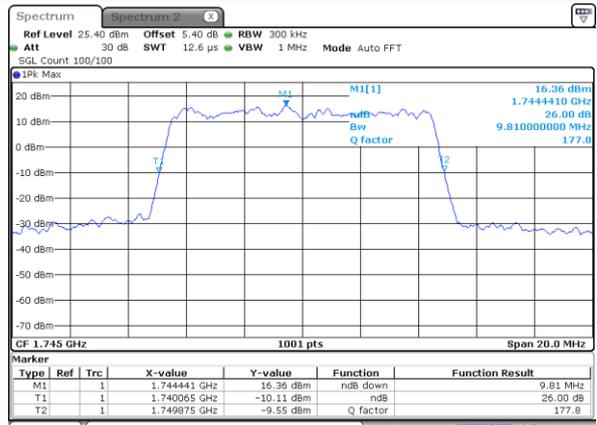
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Middle Channel / 5MHz / 64QAM



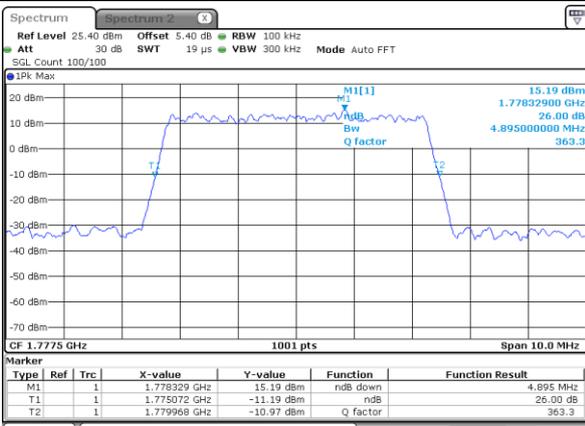
Date: 5 NOV 2020 21:24:26

Middle Channel / 10MHz / 64QAM



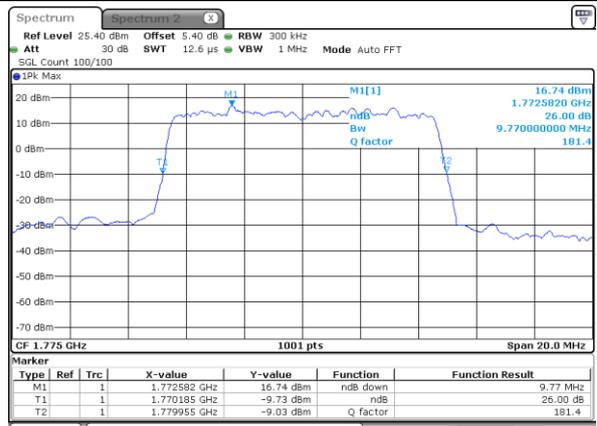
Date: 5 NOV 2020 21:58:52

Highest Channel / 5MHz / 64QAM



Date: 5 NOV 2020 21:28:00

Highest Channel / 10MHz / 64QAM

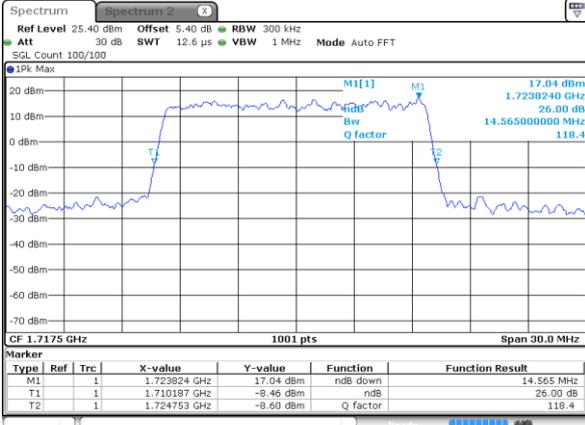


Date: 5 NOV 2020 22:00:51



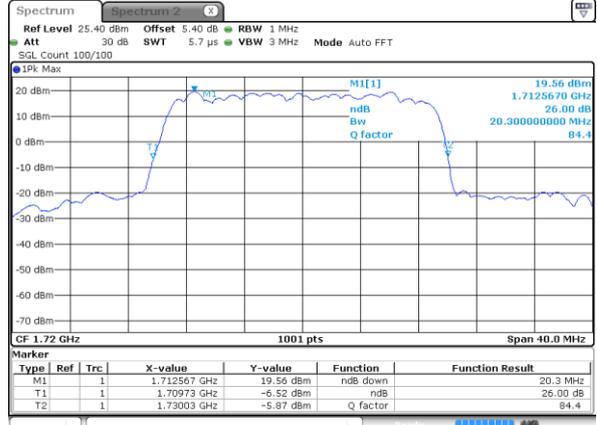
LTE Band 66

Lowest Channel / 15MHz / 64QAM



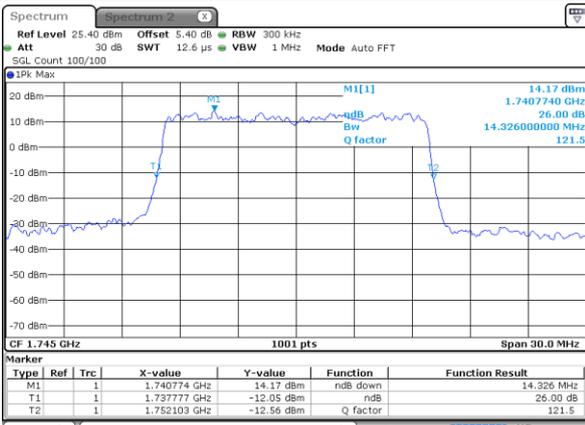
Date: 5 NOV 2020 22:11:36

Lowest Channel / 20MHz / 64QAM



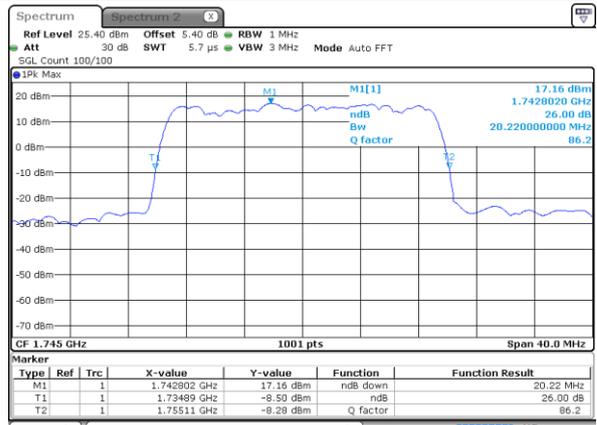
Date: 5 NOV 2020 22:38:21

Middle Channel / 15MHz / 64QAM



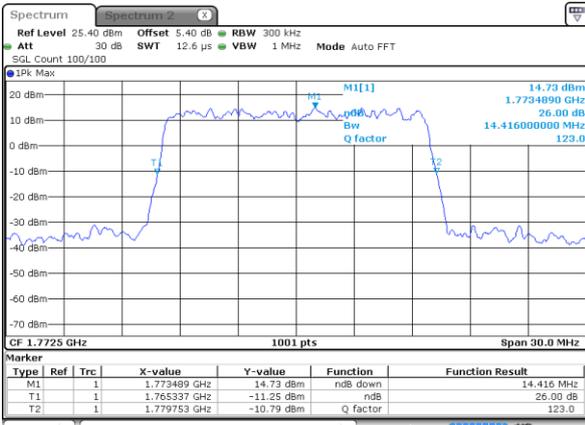
Date: 5 NOV 2020 22:22:59

Middle Channel / 20MHz / 64QAM



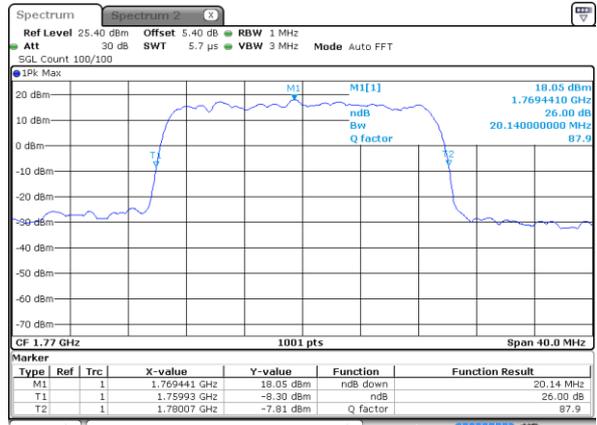
Date: 5 NOV 2020 22:50:32

Highest Channel / 15MHz / 64QAM



Date: 5 NOV 2020 22:24:43

Highest Channel / 20MHz / 64QAM

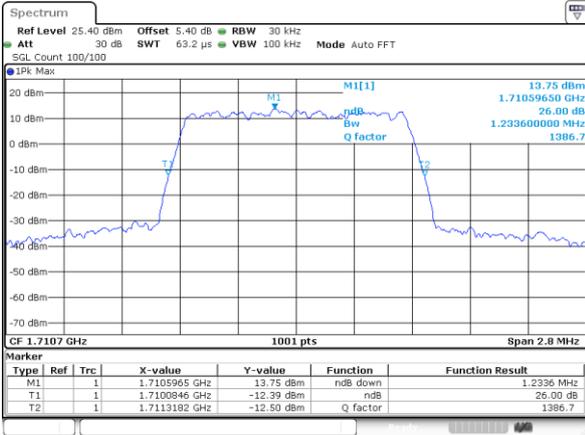


Date: 5 NOV 2020 22:54:33



LTE Band 66

Lowest Channel / 1.4MHz / 256QAM



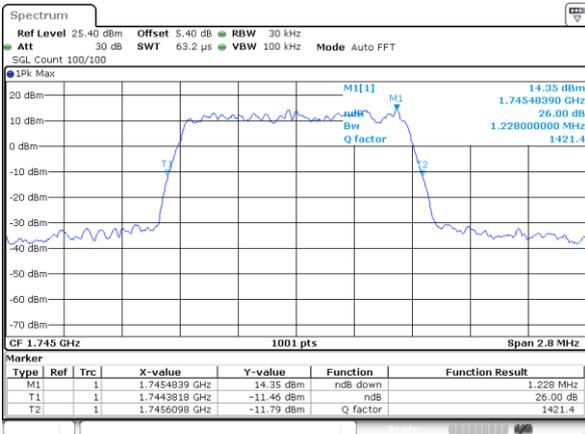
Date: 13.NOV.2020 19:09:19

Lowest Channel / 3MHz / 256QAM



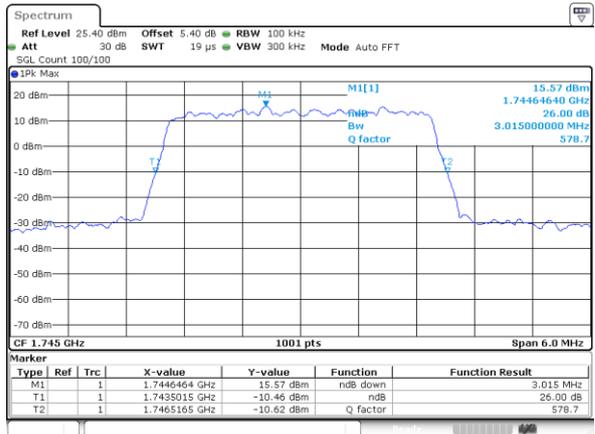
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Middle Channel / 1.4MHz / 256QAM



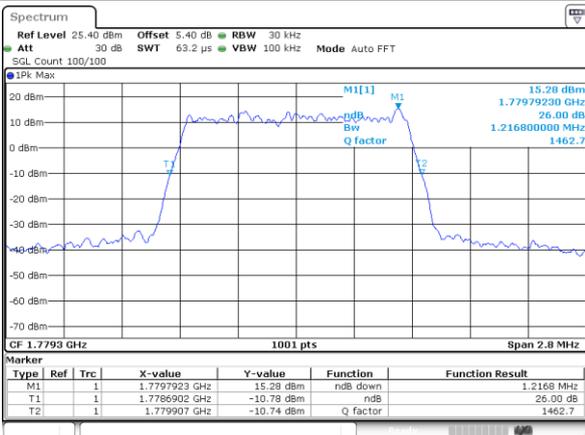
Date: 13.NOV.2020 19:16:26

Middle Channel / 3MHz / 256QAM



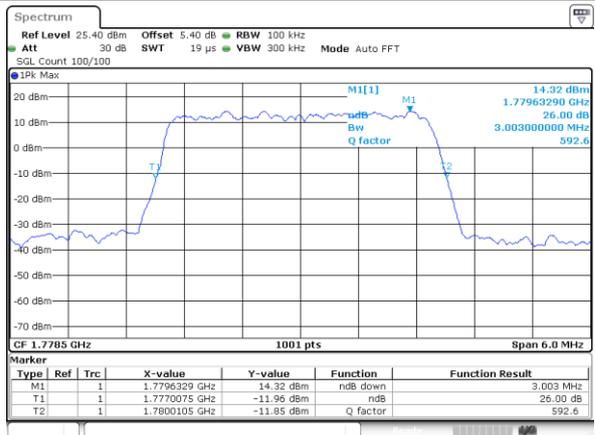
Date: 13.NOV.2020 19:28:24

Highest Channel / 1.4MHz / 256QAM



Date: 13.NOV.2020 19:17:32

Highest Channel / 3MHz / 256QAM

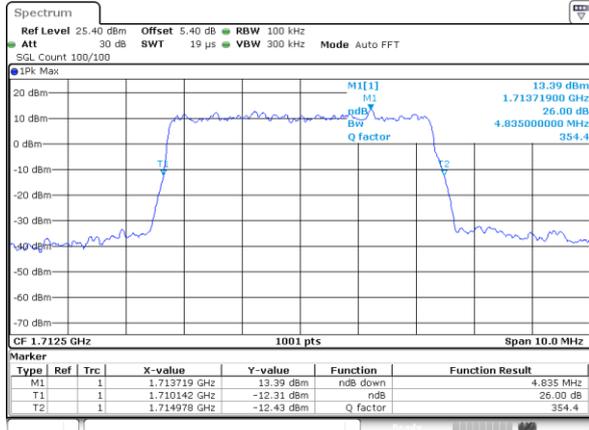


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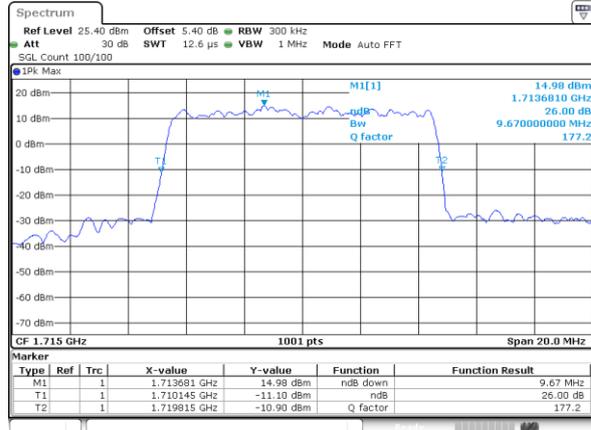
LTE Band 66

Lowest Channel / 5MHz / 256QAM



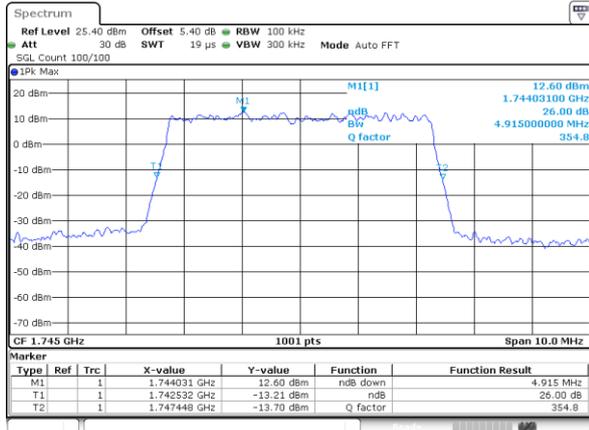
Date: 13.NOV.2020 19:36:53

Lowest Channel / 10MHz / 256QAM



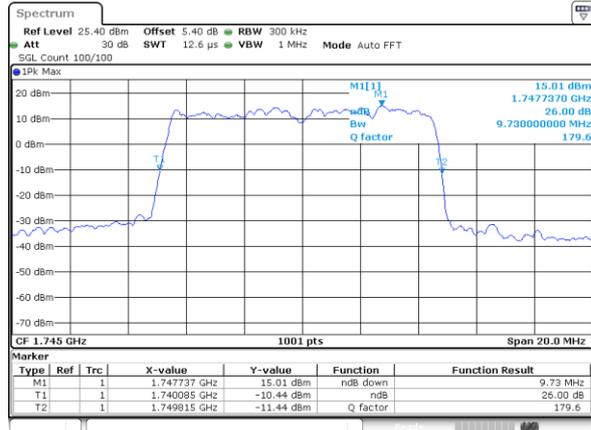
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Middle Channel / 5MHz / 256QAM



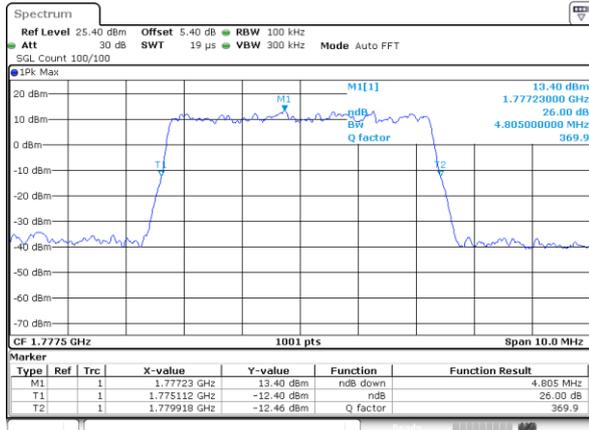
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Middle Channel / 10MHz / 256QAM



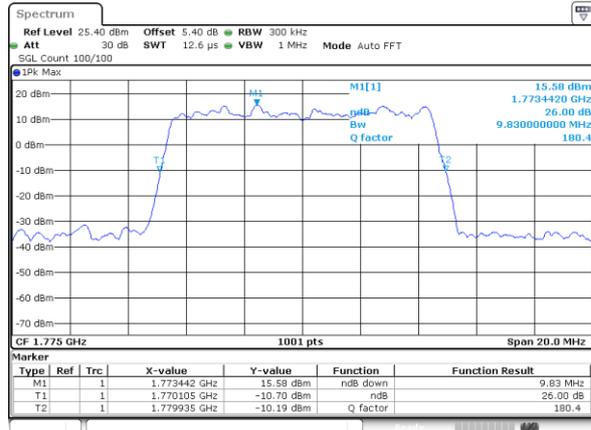
Date: 13.NOV.2020 19:51:41

Highest Channel / 5MHz / 256QAM



Date: 13.NOV.2020 19:45:20

Highest Channel / 10MHz / 256QAM

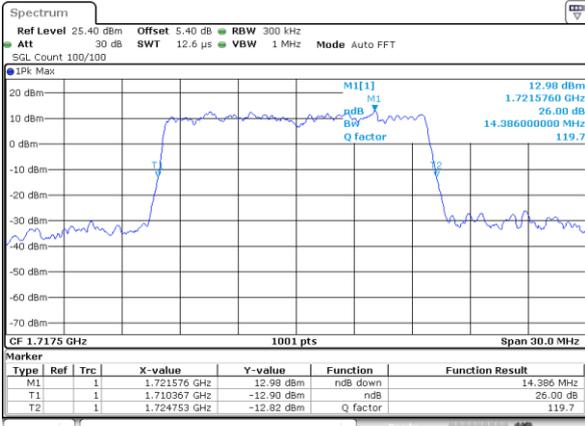


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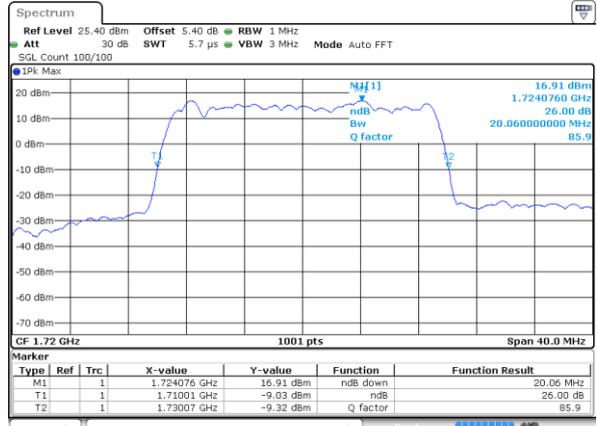
LTE Band 66

Lowest Channel / 15MHz / 256QAM



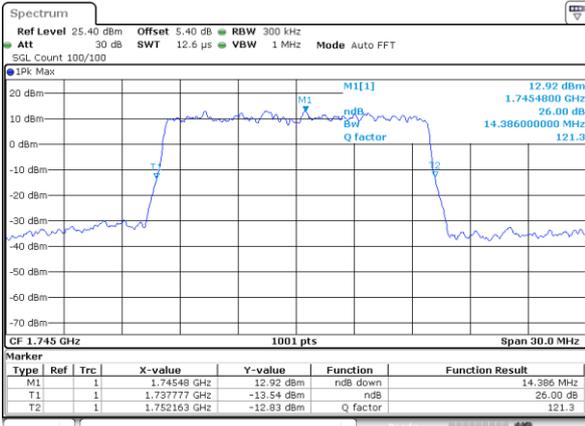
Date: 13, NOV, 2020 20:00:00

Lowest Channel / 20MHz / 256QAM



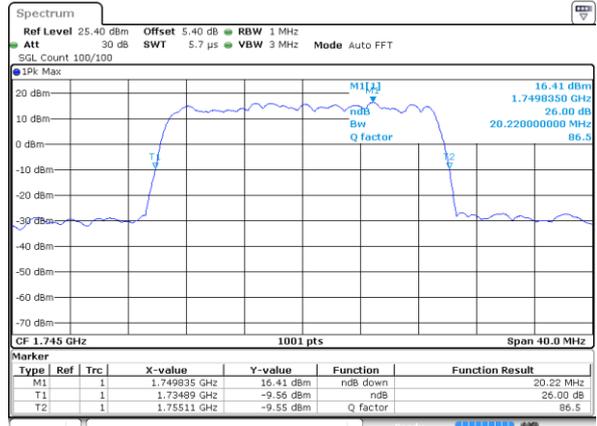
Date: 19 NOV 2020 17:10:49

Middle Channel / 15MHz / 256QAM



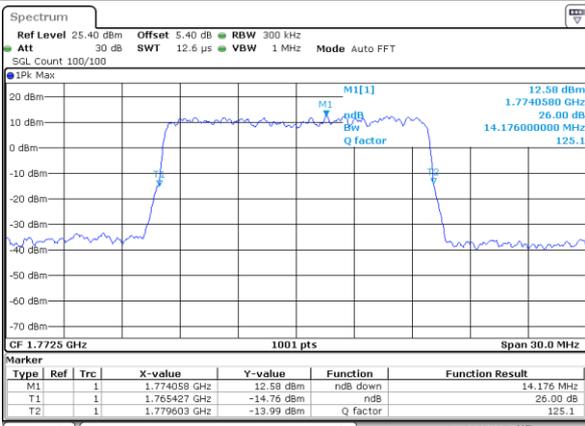
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Middle Channel / 20MHz / 256QAM



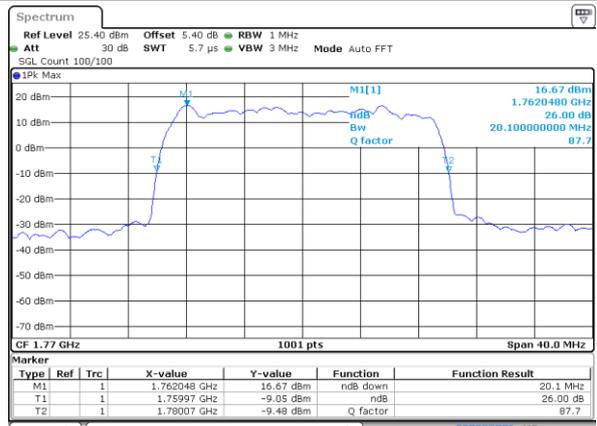
Date: 19 NOV 2020 17:11:33

Highest Channel / 15MHz / 256QAM



Date: 13, NOV, 2020 20:05:59

Highest Channel / 20MHz / 256QAM



Date: 19 NOV 2020 17:12:18



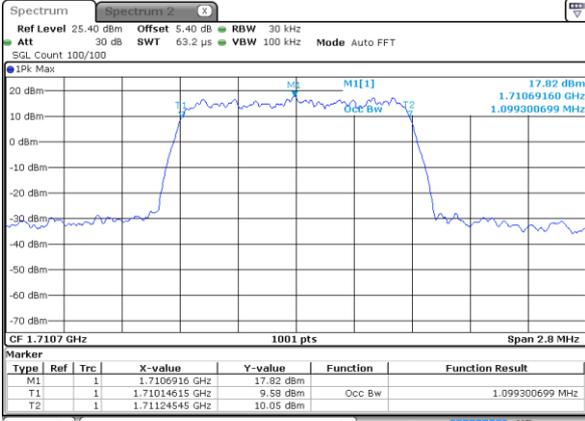
### Occupied Bandwidth

Mode	LTE Band 66 : 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	1.09	2.73	2.73	4.48	4.47	8.99	8.99	13.52	13.34	18.38	18.22
Middle CH	1.09	1.08	2.73	2.73	4.50	4.48	8.99	8.99	13.46	13.40	18.42	18.42
Highest CH	1.09	1.09	2.71	2.71	4.49	4.47	8.99	8.97	13.40	13.43	18.30	18.42
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	1.09	1.09	2.70	2.72	4.49	4.46	9.01	9.05	13.40	13.43	18.34	18.38
Middle CH	1.09	1.09	2.73	2.75	4.49	4.48	8.99	9.01	13.46	13.43	18.38	18.30
Highest CH	1.09	1.09	2.71	2.70	4.51	4.50	9.03	8.95	13.46	13.46	18.38	18.26



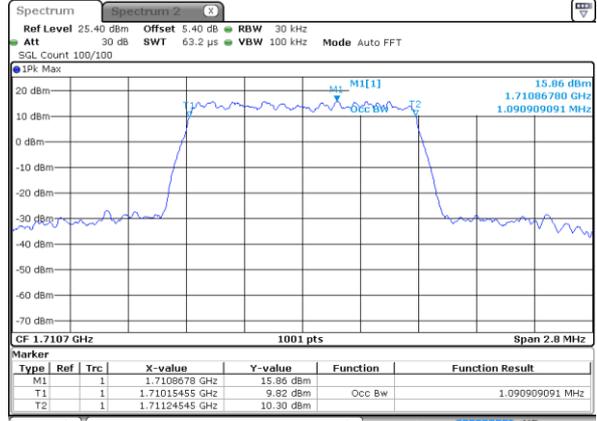
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



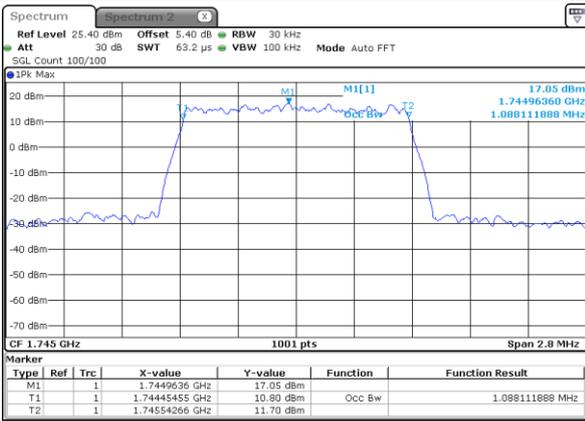
Date: 5 NOV 2020 19:50:44

Lowest Channel / 1.4MHz / 16QAM



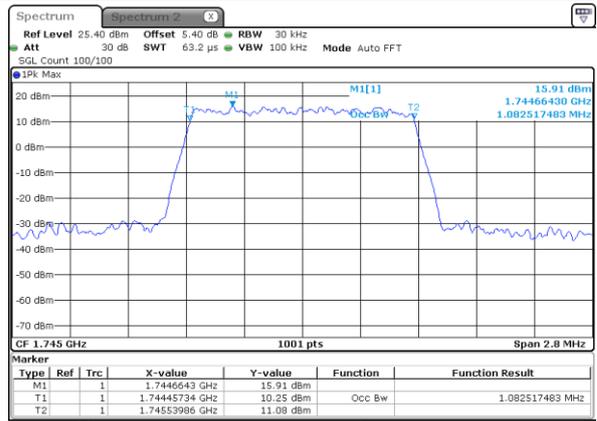
Date: 5 NOV 2020 19:53:02

Middle Channel / 1.4MHz / QPSK



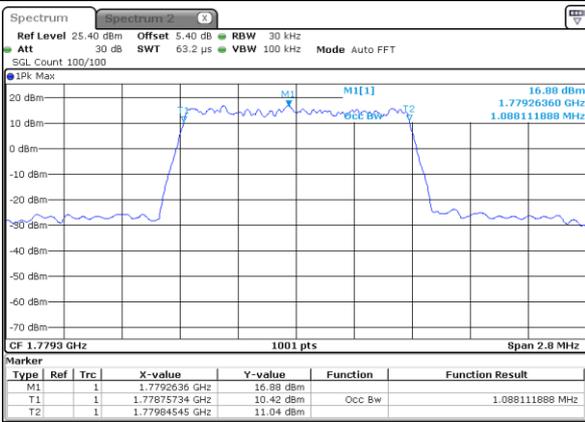
Date: 5 NOV 2020 20:20:15

Middle Channel / 1.4MHz / 16QAM



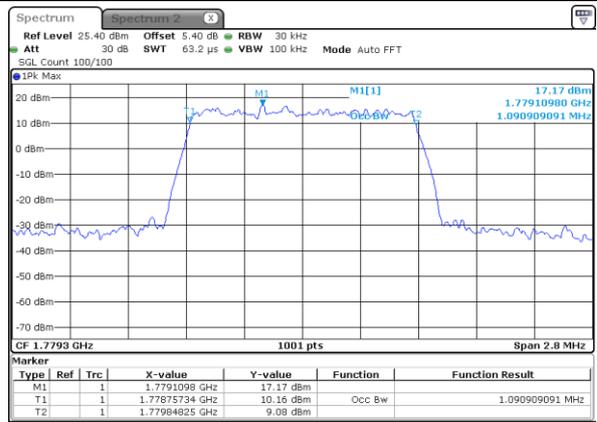
Date: 5 NOV 2020 20:19:55

Highest Channel / 1.4MHz / QPSK



Date: 5 NOV 2020 20:21:30

Highest Channel / 1.4MHz / 16QAM

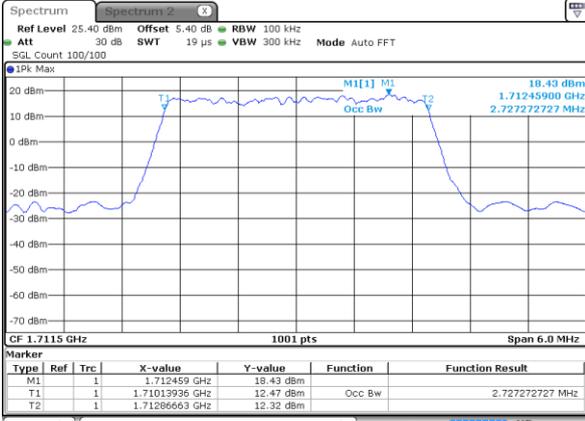


Date: 5 NOV 2020 20:25:05



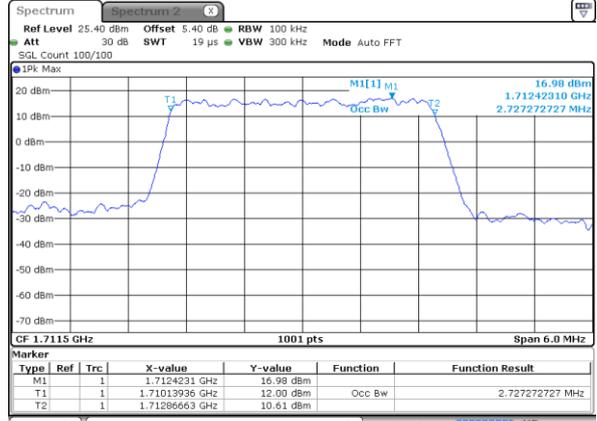
LTE Band 66

Lowest Channel / 3MHz / QPSK



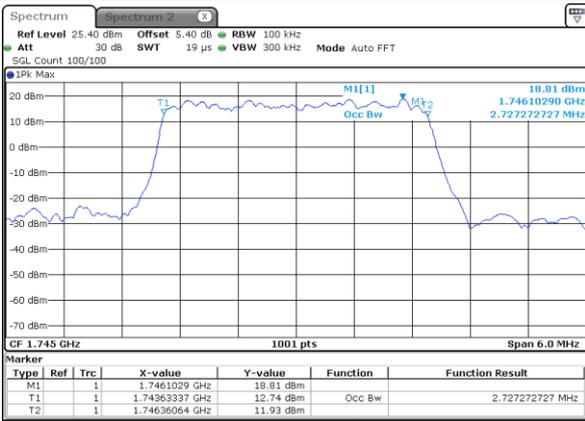
Date: 5 NOV 2020 20:38:39

Lowest Channel / 3MHz / 16QAM



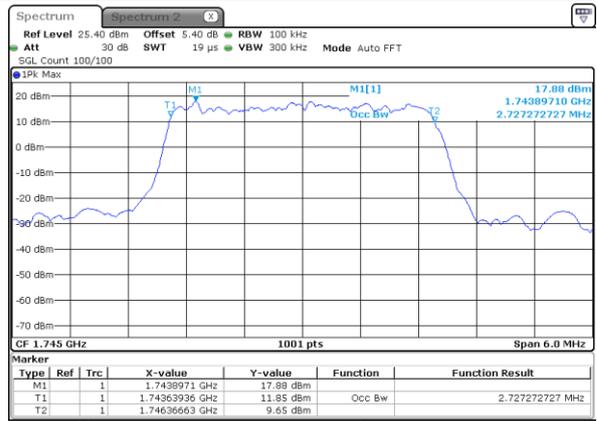
Date: 5 NOV 2020 20:39:47

Middle Channel / 3MHz / QPSK



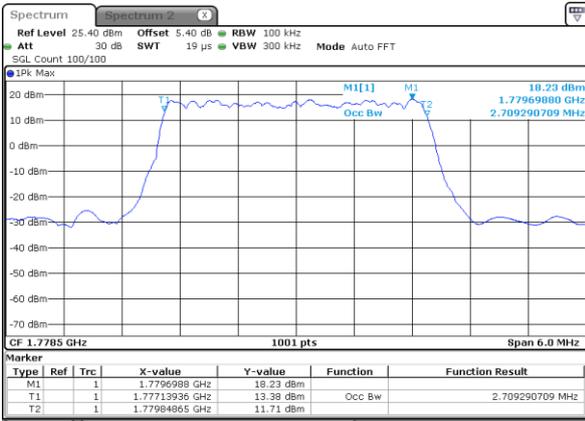
Date: 5 NOV 2020 20:55:40

Middle Channel / 3MHz / 16QAM



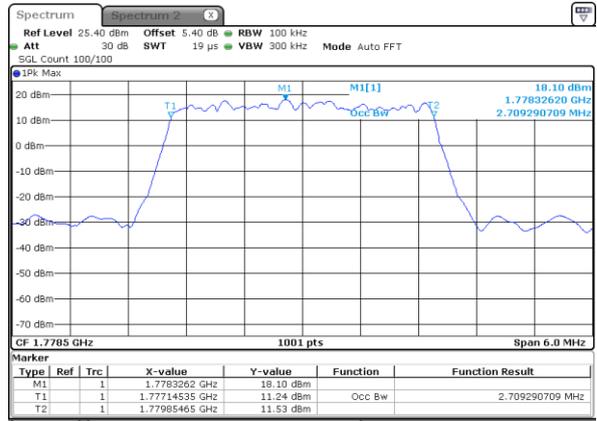
Date: 5 NOV 2020 20:55:16

Highest Channel / 3MHz / QPSK



Date: 5 NOV 2020 20:56:29

Highest Channel / 3MHz / 16QAM

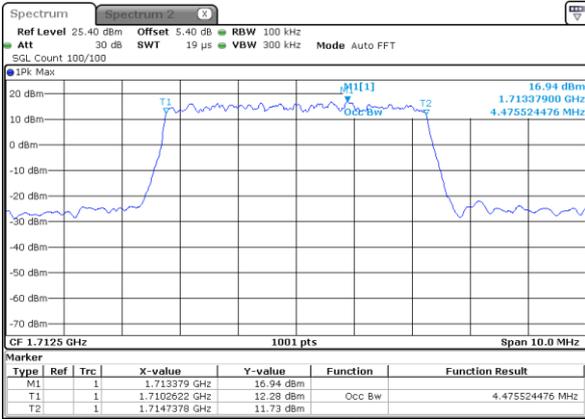


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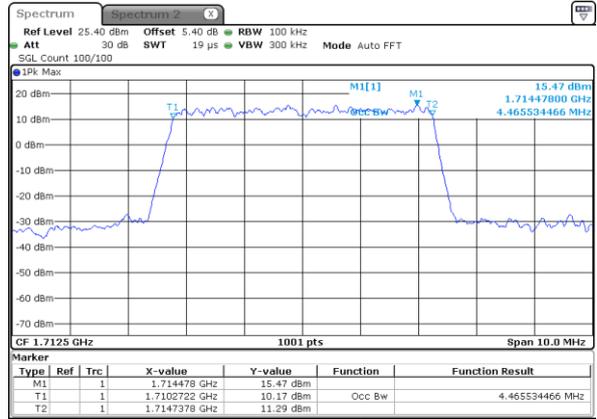
LTE Band 66

Lowest Channel / 5MHz / QPSK



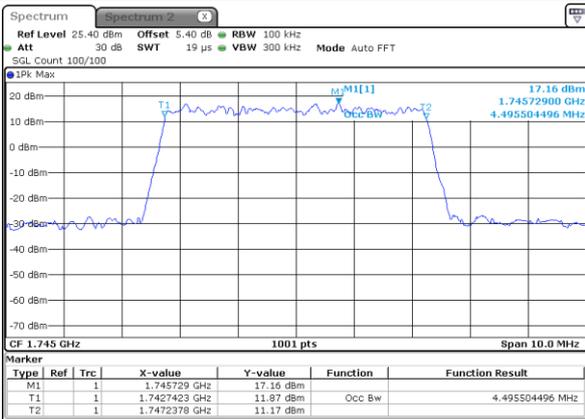
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Lowest Channel / 5MHz / 16QAM



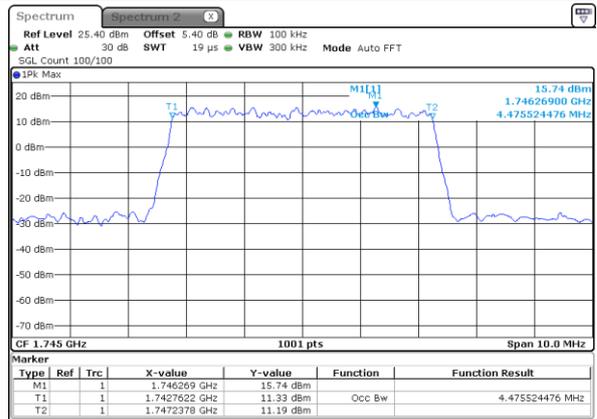
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Middle Channel / 5MHz / QPSK



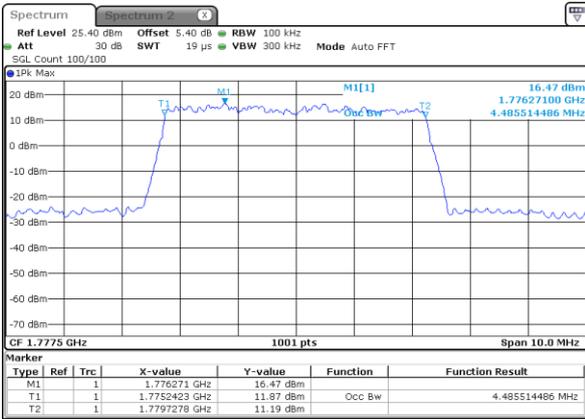
Date: 5 NOV 2020 21:25:15

Middle Channel / 5MHz / 16QAM



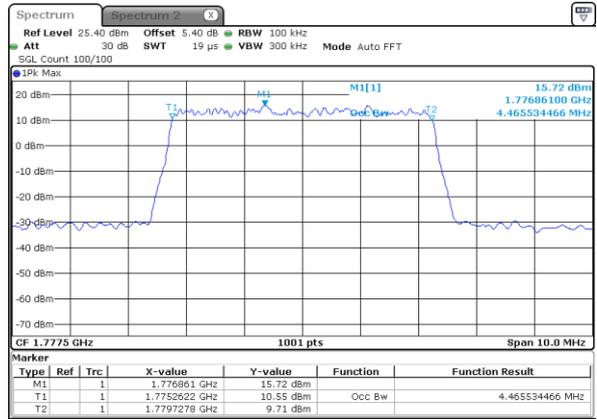
Date: 5 NOV 2020 21:24:41

Highest Channel / 5MHz / QPSK



Date: 5 NOV 2020 21:26:08

Highest Channel / 5MHz / 16QAM



Date: 5 NOV 2020 21:26:57