



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0040	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

**Note:**

- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41C

## 26dB Bandwidth

Mode	LTE Band 41C : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.73	25.03	29.85	25.18	30.51
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.9	24.98	30.03	34.9	39.88

Mode	LTE Band 41C : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.68	25.08	29.85	25.13	30.63
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.9	24.98	30.03	35.04	39.8

Mode	LTE Band 41C : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.73	24.93	29.97	25.18	30.45
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.69	24.88	30.03	34.97	39.88

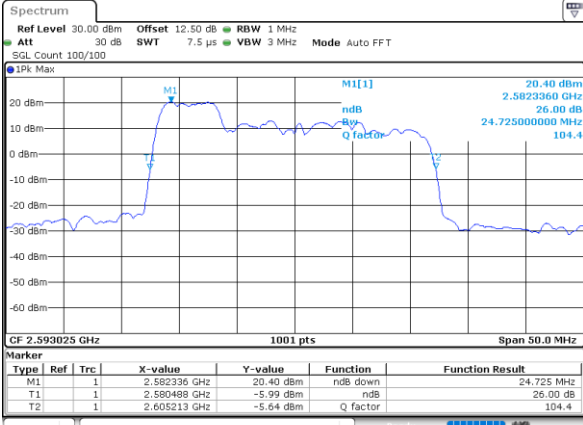
Mode	LTE Band 41C : 26dB BW(MHz)				
256QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.73	25.13	29.91	25.28	30.45
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.69	24.83	29.97	34.9	39.88



LTE Band 41C

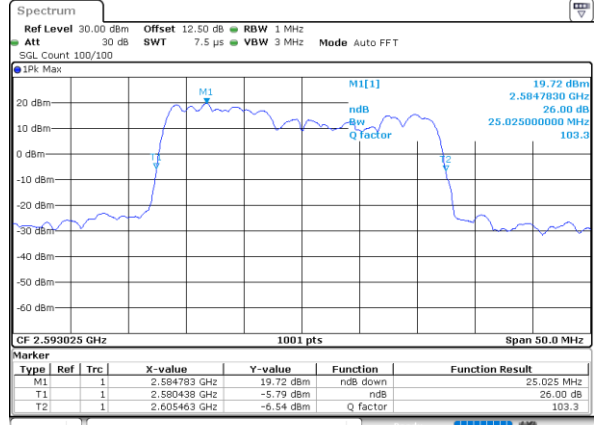
QPSK

Middle Channel / 5MHz+20MHz



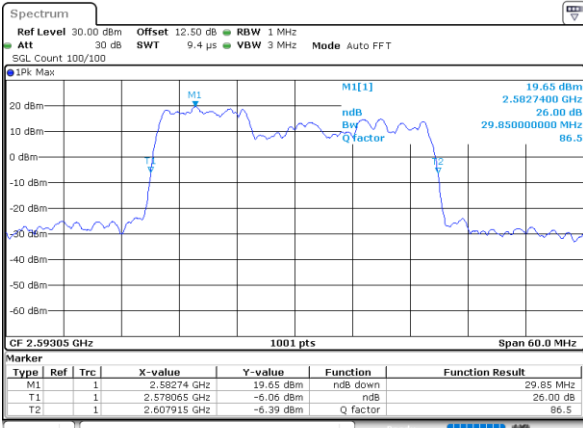
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Middle Channel / 10MHz+15MHz



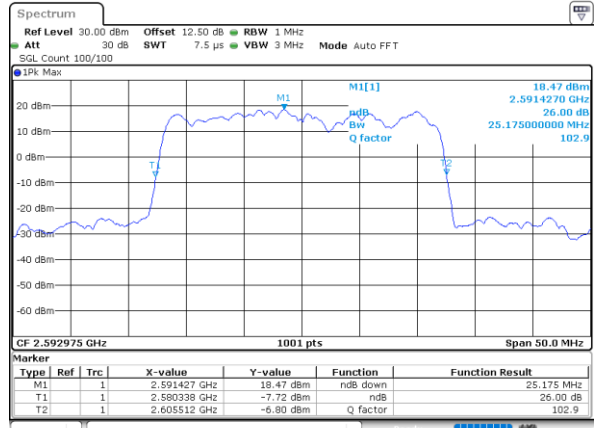
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Middle Channel / 10MHz+20MHz



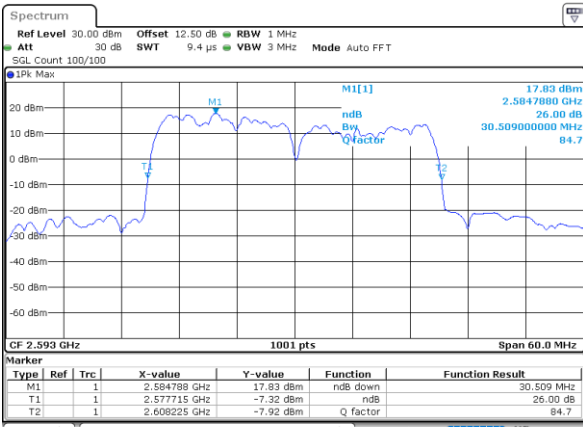
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Middle Channel / 15MHz+10MHz



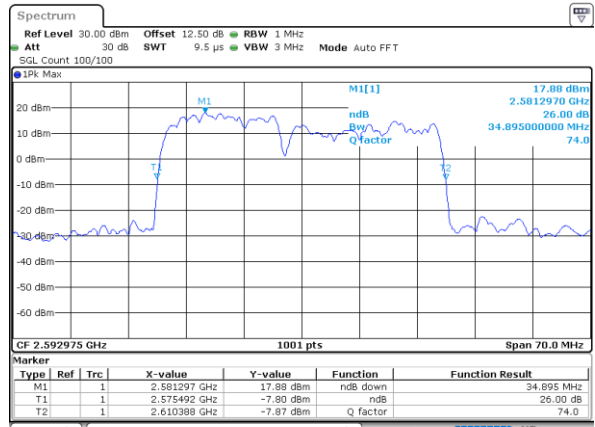
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Middle Channel / 15MHz+15MHz



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Middle Channel / 15MHz+20MHz

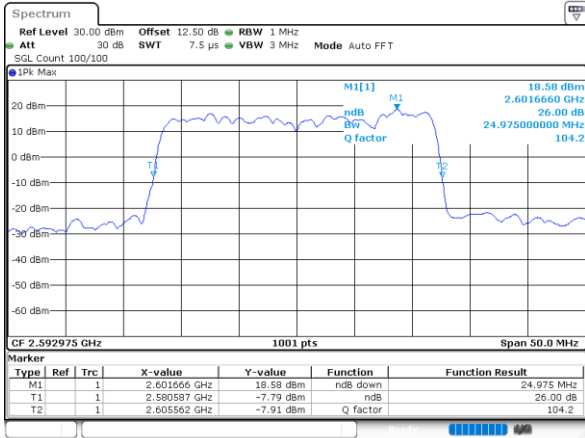


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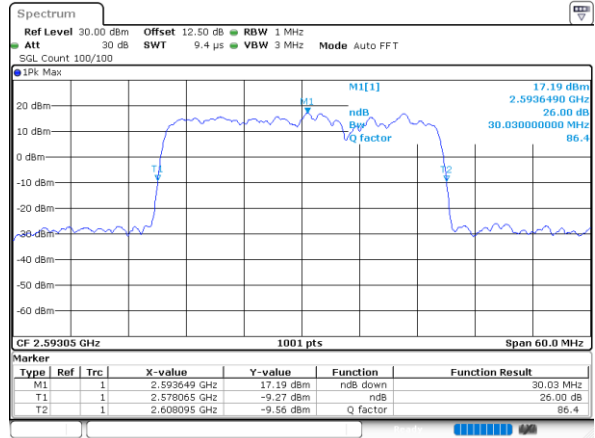
LTE Band 41C

Middle Channel / 20MHz+5MHz



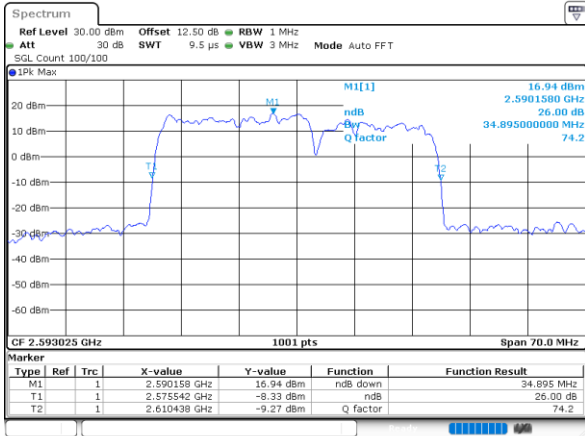
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Middle Channel / 20MHz+10MHz



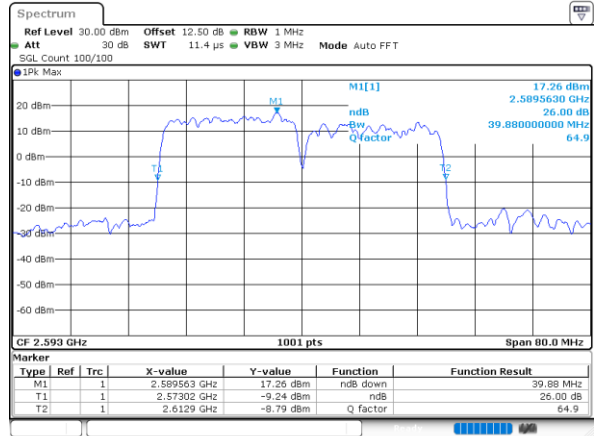
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Middle Channel / 20MHz+15MHz



Date: 21.SEP.2022 19:43:58

Middle Channel / 20MHz+20MHz

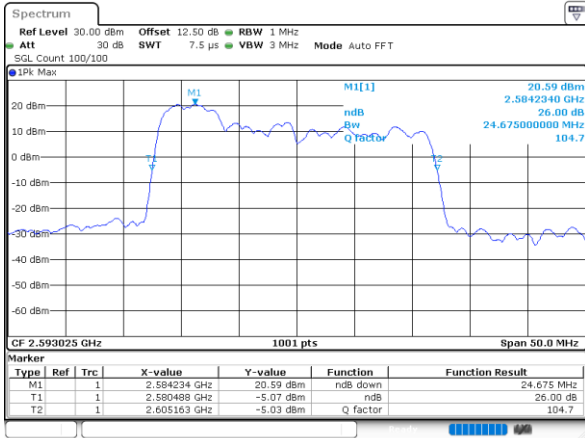


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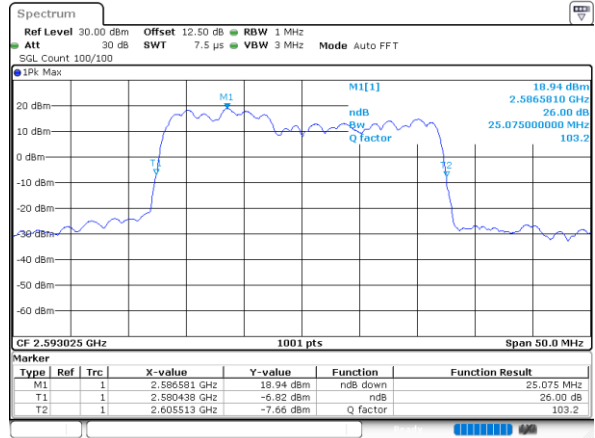
LTE Band 41C

Middle Channel / 5MHz+20MHz



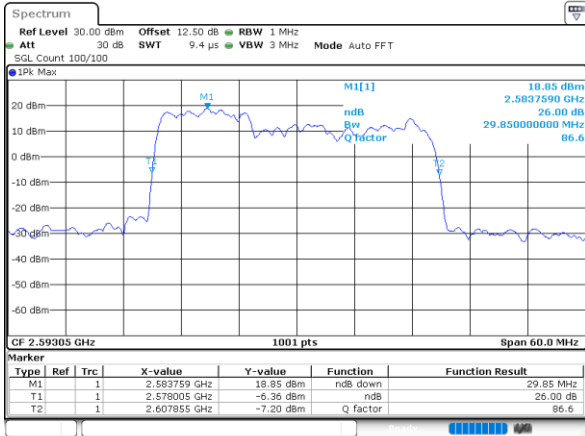
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Middle Channel / 10MHz+15MHz



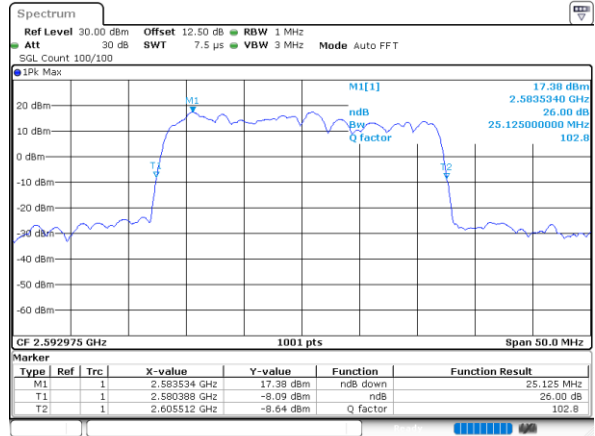
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Middle Channel / 10MHz+20MHz



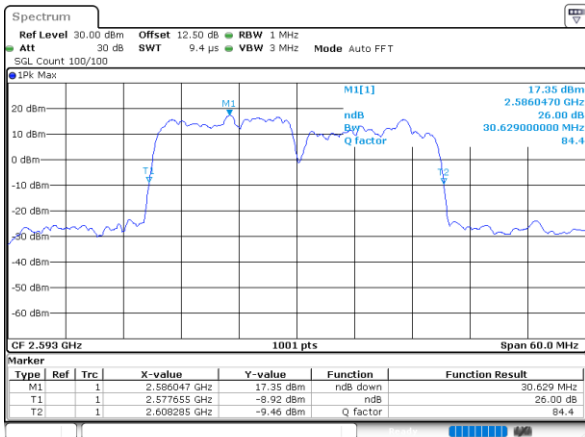
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Middle Channel / 15MHz+10MHz



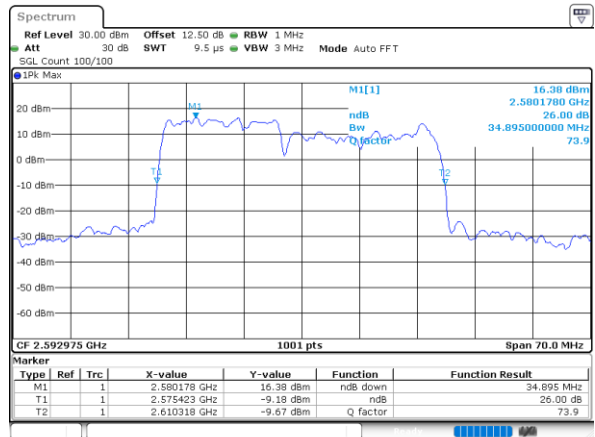
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Middle Channel / 15MHz+15MHz



Date: 21.SEP.2022 19:37:25

Middle Channel / 15MHz+20MHz



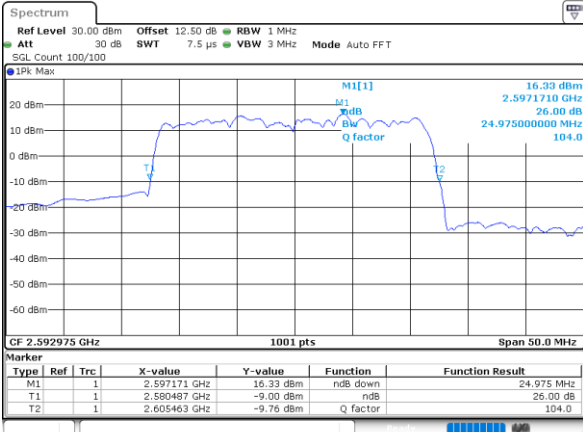
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LTE Band 41C

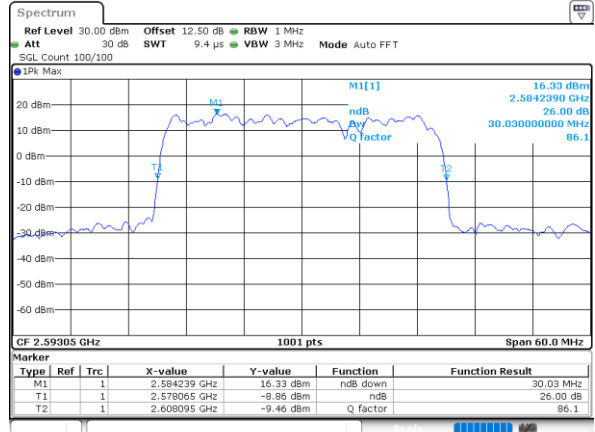
16QAM

Middle Channel / 20MHz+5MHz



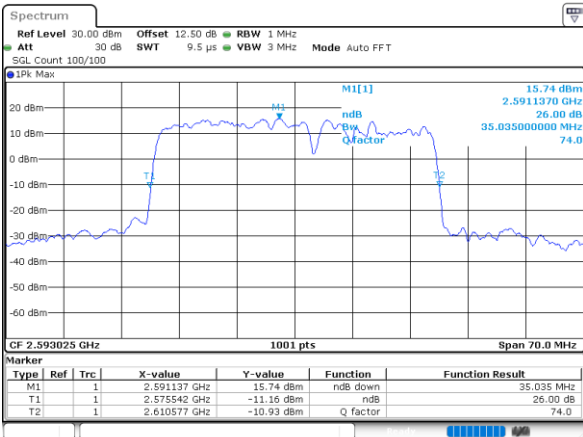
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Middle Channel / 20MHz+10MHz



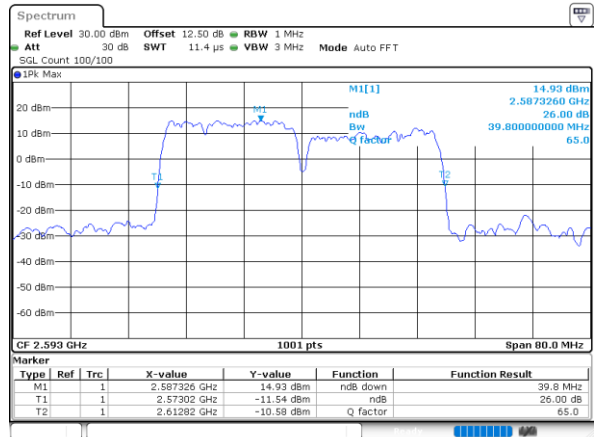
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Middle Channel / 20MHz+15MHz



Date: 21\_SEP.2022 19:44:36

Middle Channel / 20MHz+20MHz



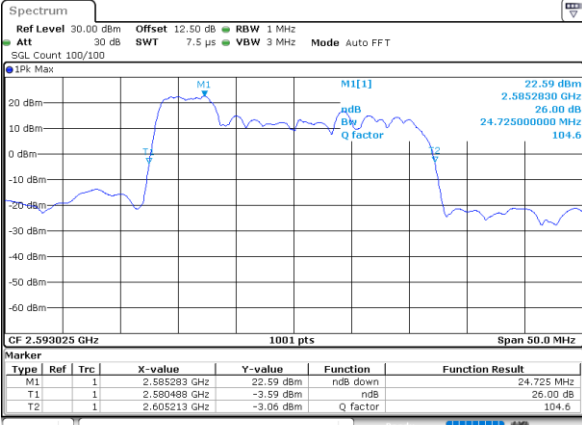
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LTE Band 41C

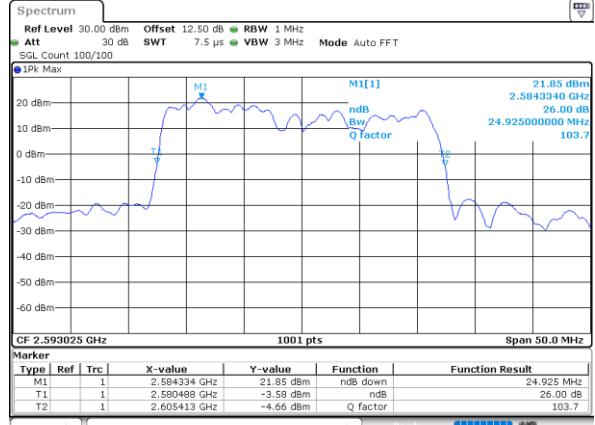
64QAM

Middle Channel / 5MHz+20MHz



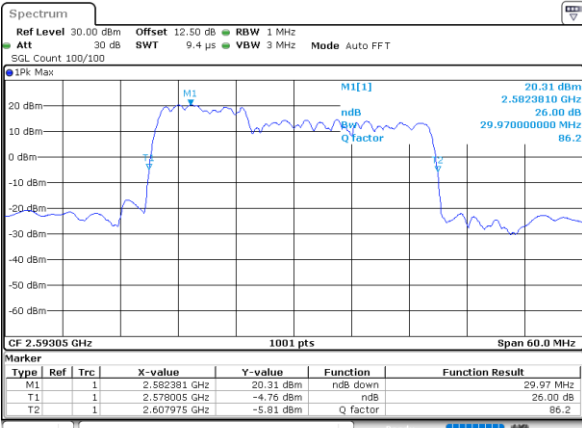
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Middle Channel / 10MHz+15MHz



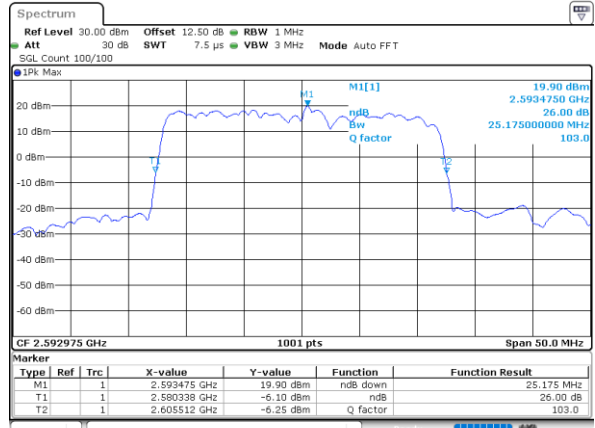
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Middle Channel / 10MHz+20MHz



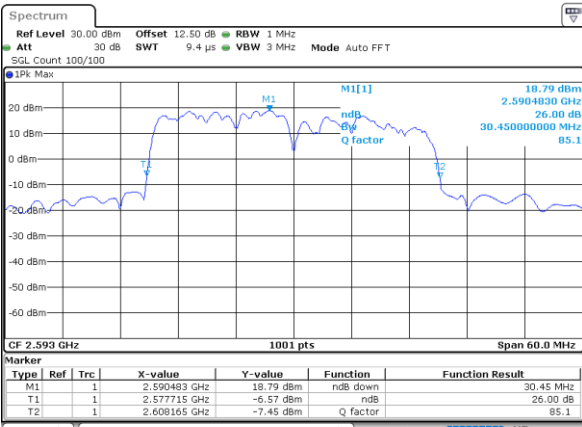
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Middle Channel / 15MHz+10MHz



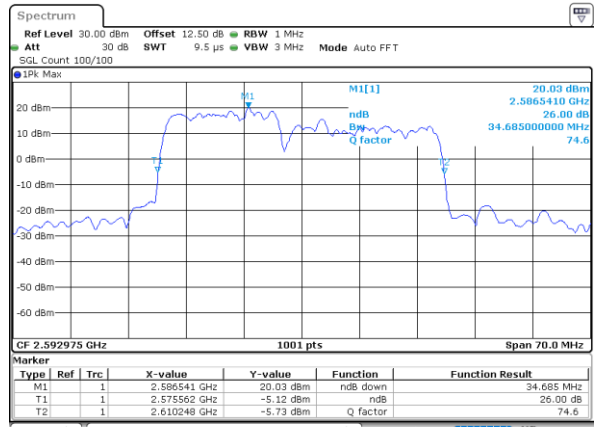
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Middle Channel / 15MHz+15MHz



Date: 21\_SEP.2022 19:37:59

Middle Channel / 15MHz+20MHz



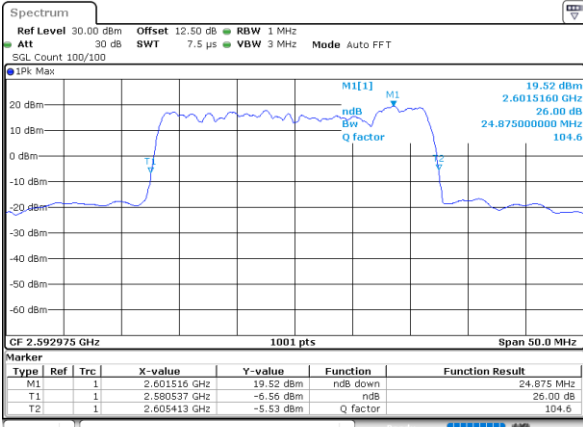
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LTE Band 41C

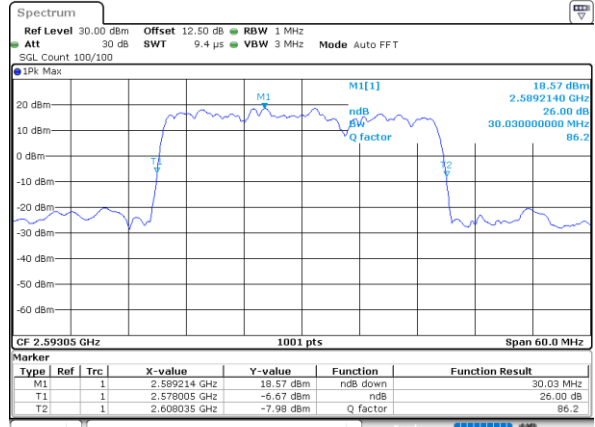
64QAM

Middle Channel / 20MHz+5MHz



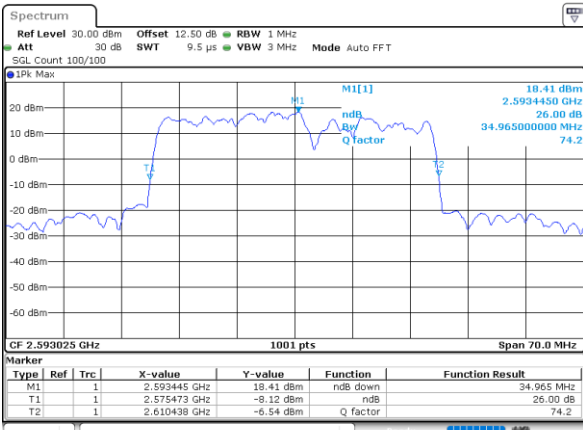
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Middle Channel / 20MHz+10MHz



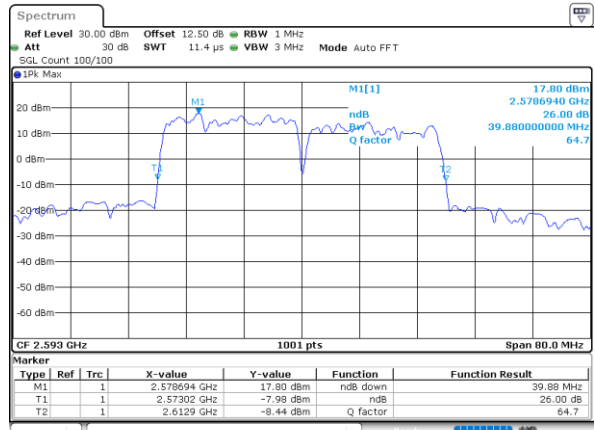
Date: 21\_SEP.2022 19:34:28

Middle Channel / 20MHz+15MHz



Date: 21\_SEP.2022 19:45:14

Middle Channel / 20MHz+20MHz



Date: 4\_OCT.2022 14:34:16

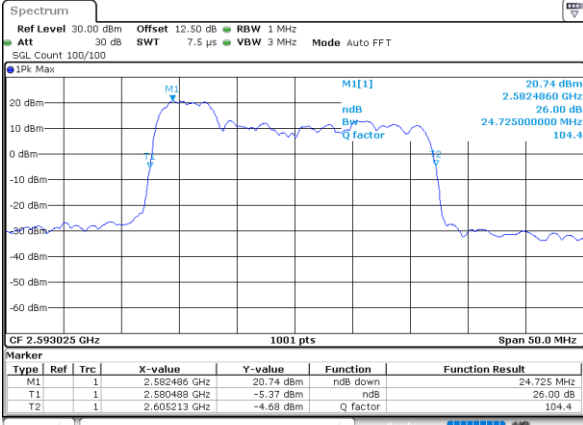




LTE Band 41C

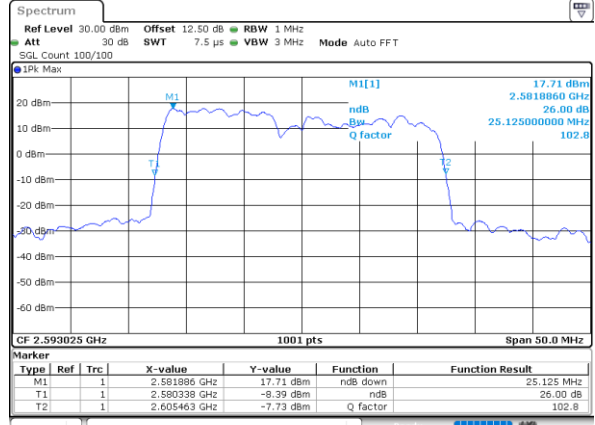
256QAM

Middle Channel / 5MHz+20MHz



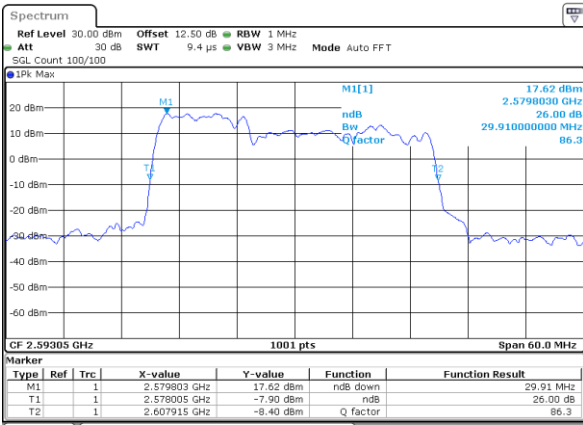
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Middle Channel / 10MHz+15MHz



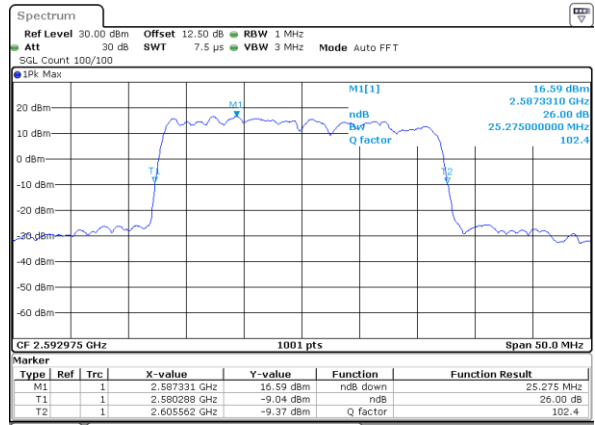
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Middle Channel / 10MHz+20MHz



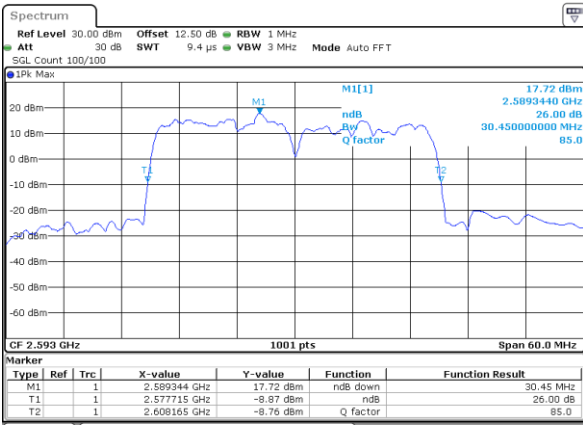
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Middle Channel / 15MHz+10MHz



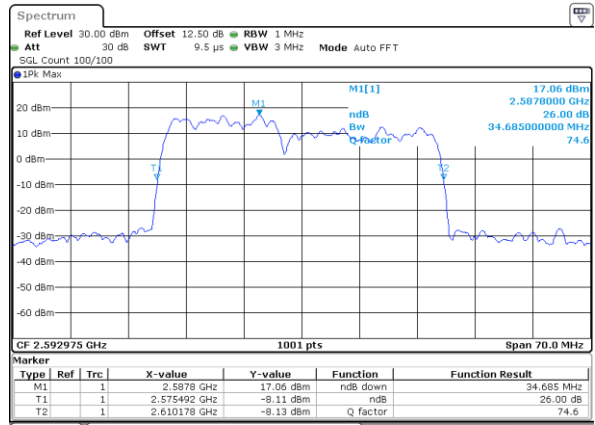
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Middle Channel / 15MHz+15MHz



Date: 21\_SEP.2022 19:38:33

Middle Channel / 15MHz+20MHz



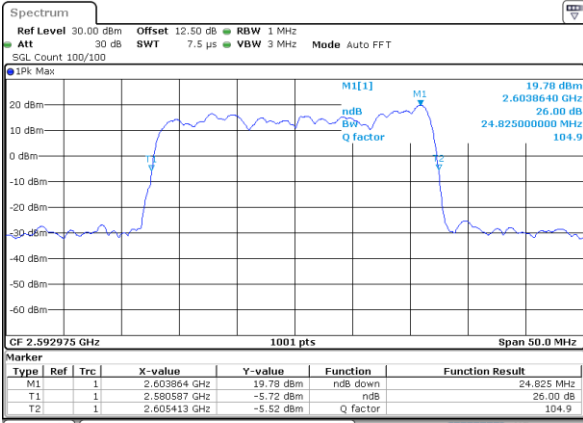
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LTE Band 41C

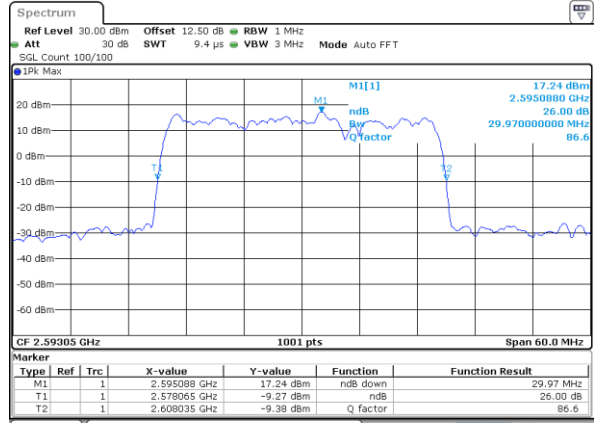
256QAM

Middle Channel / 20MHz+5MHz



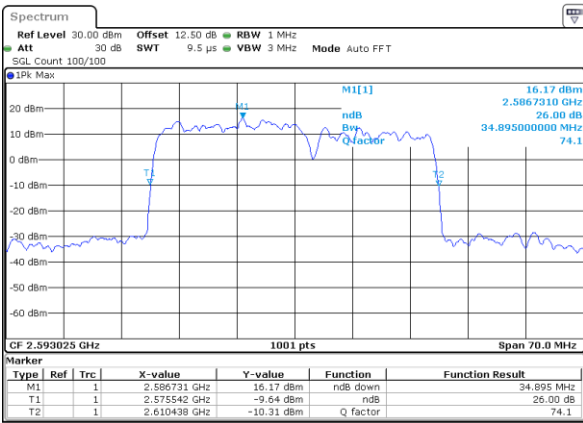
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Middle Channel / 20MHz+10MHz



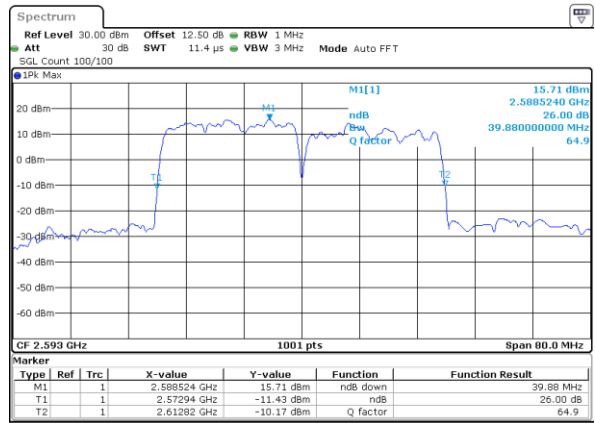
Date: 21.SEP.2022 19:35:06

Middle Channel / 20MHz+15MHz



Date: 4.OCT.2022 14:35:12

Middle Channel / 20MHz+20MHz



Date: 21.SEP.2022 19:49:14



Occupied Bandwidth

Mode	LTE Band 41C : 99%OBW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	23.28	23.33	27.81	23.58	28.83
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.8	23.28	28.17	32.66	37.4

Mode	LTE Band 41C : 99%OBW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	22.93	23.28	28.11	23.38	28.41
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.8	23.33	28.17	32.66	37.64

Mode	LTE Band 41C : 99%OBW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	22.88	23.38	28.05	23.53	28.59
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.73	23.48	27.75	32.73	37.32

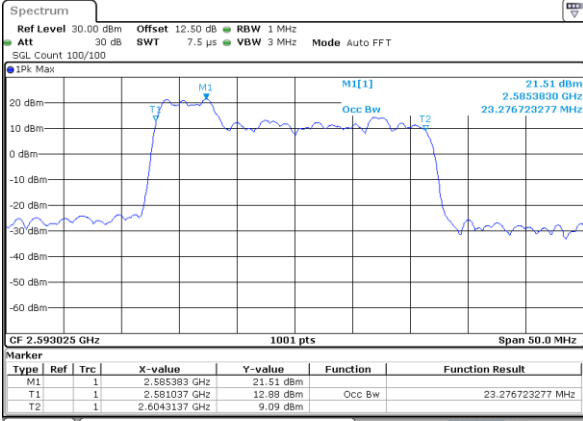
Mode	LTE Band 41C : 99%OBW(MHz)				
256QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	22.98	23.33	27.99	23.28	28.47
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.88	23.13	27.99	32.73	37.72



LTE Band 41C

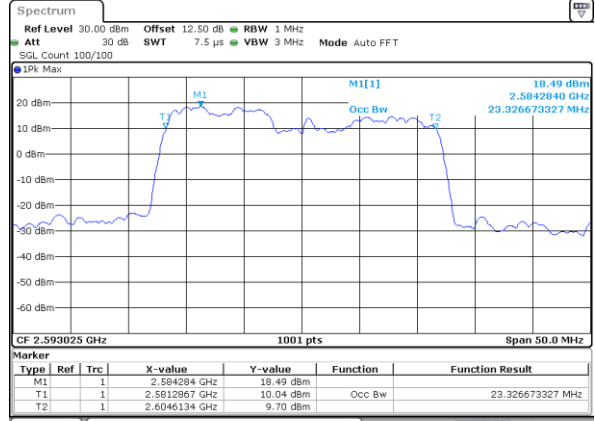
QPSK

Middle Channel / 5MHz+20MHz



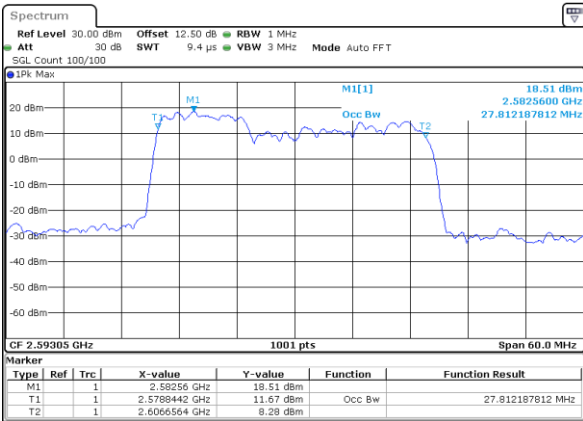
Date: 19\_SEP.2022 08:41:22

Middle Channel / 10MHz+15MHz



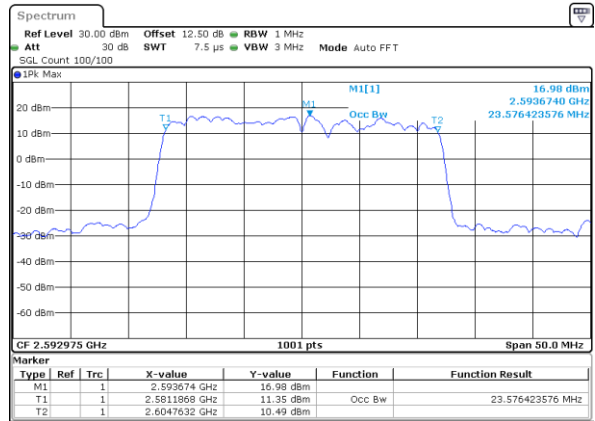
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Middle Channel / 10MHz+20MHz



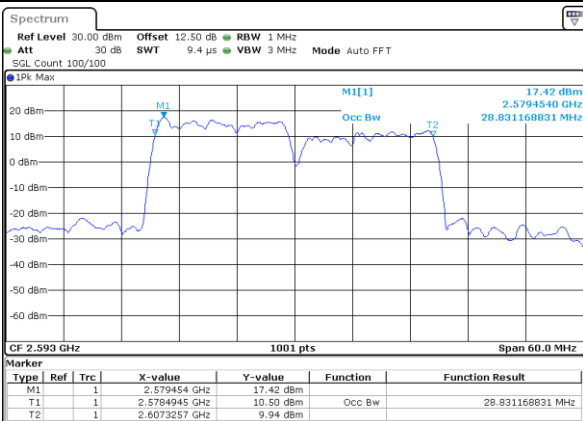
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Middle Channel / 15MHz+10MHz



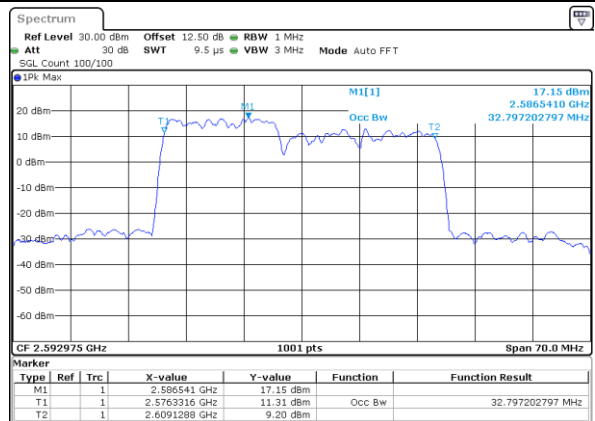
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Middle Channel / 15MHz+15MHz



Date: 20\_SEP.2022 11:18:37

Middle Channel / 15MHz+20MHz



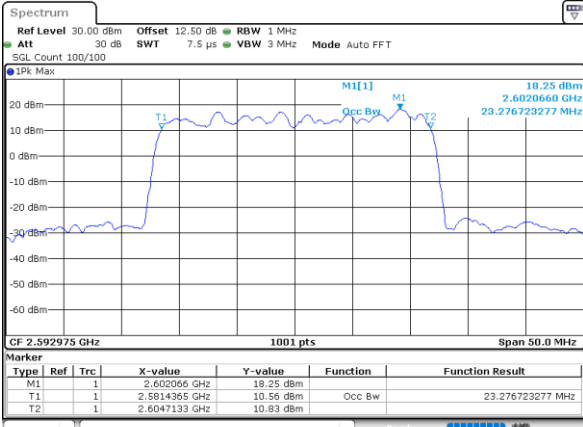
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LTE Band 41C

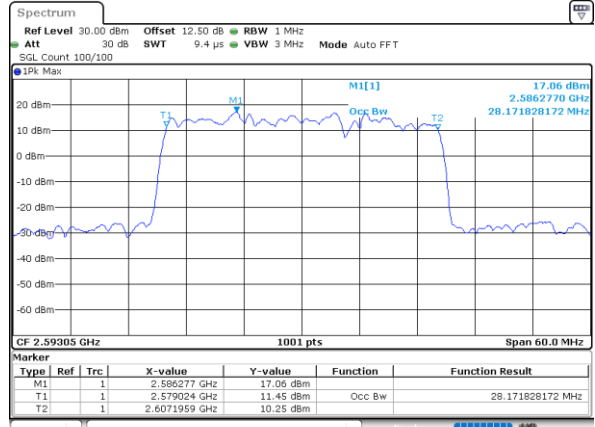
QPSK

Middle Channel / 20MHz+5MHz



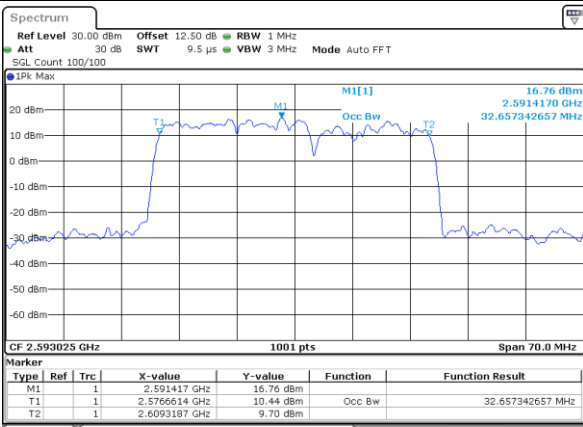
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Middle Channel / 20MHz+10MHz



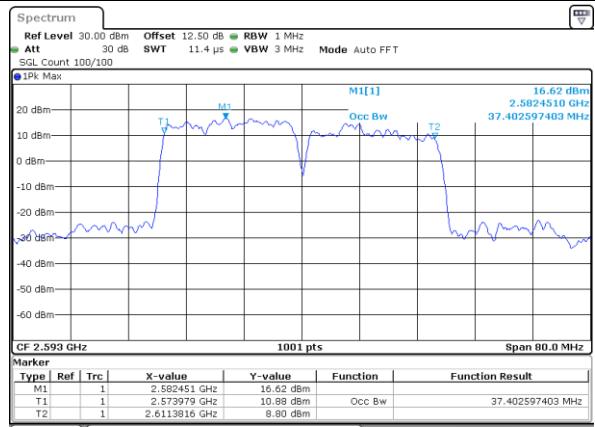
Date: 20\_SEP.2022 10:55:09

Middle Channel / 20MHz+15MHz



Date: 20\_SEP.2022 13:52:24

Middle Channel / 20MHz+20MHz



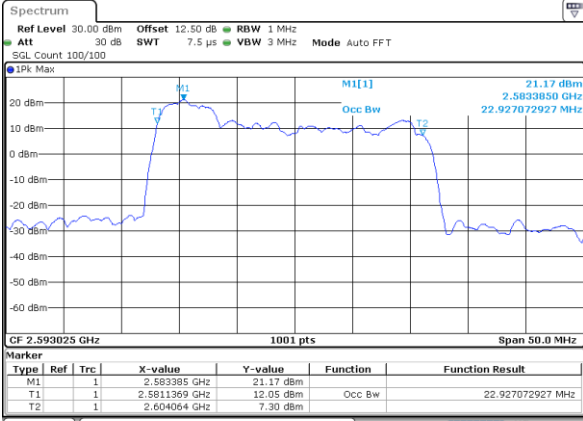
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LTE Band 41C

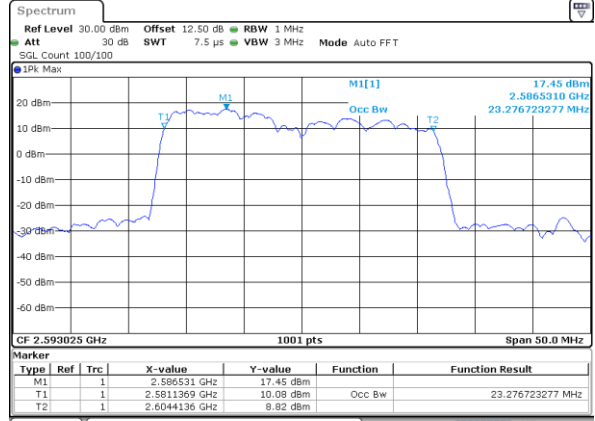
16QAM

Middle Channel / 5MHz+20MHz



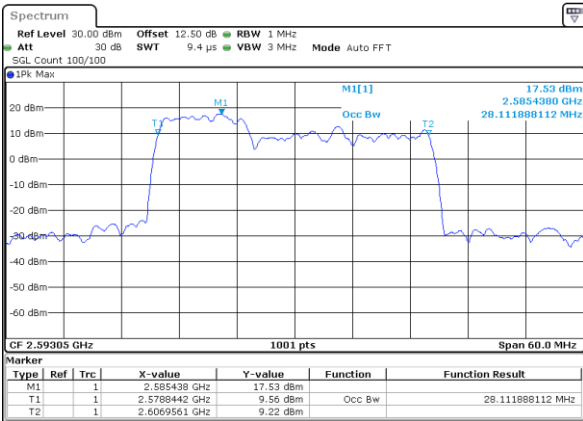
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Middle Channel / 10MHz+15MHz



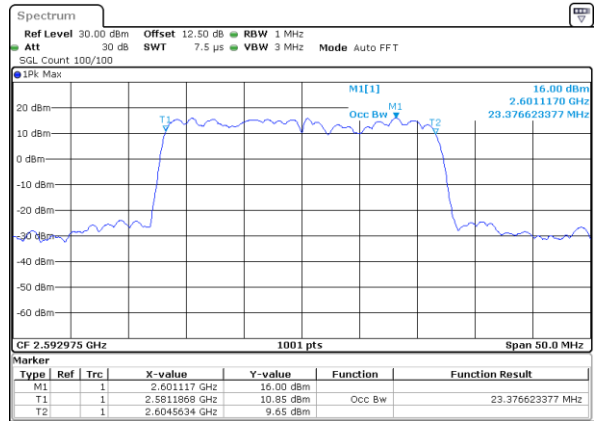
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Middle Channel / 10MHz+20MHz



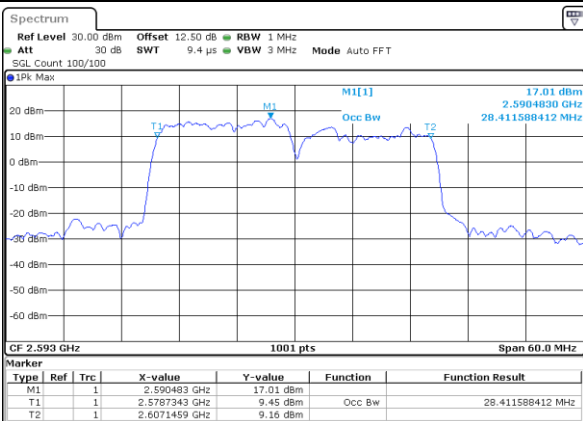
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Middle Channel / 15MHz+10MHz



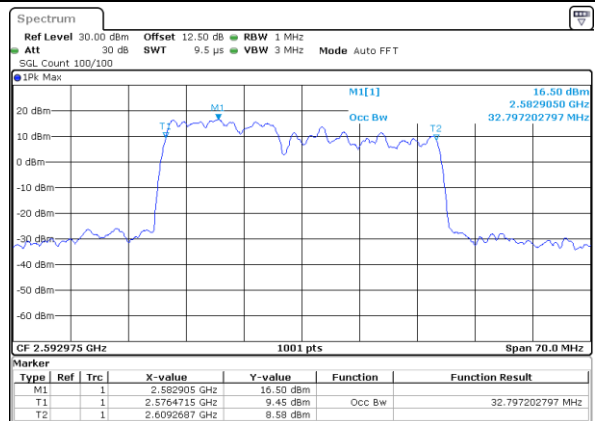
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Middle Channel / 15MHz+15MHz



Date: 20\_SEP.2022 11:19:09

Middle Channel / 15MHz+20MHz



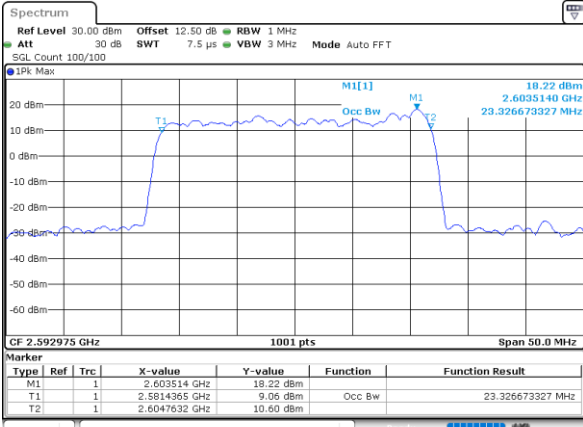
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LTE Band 41C

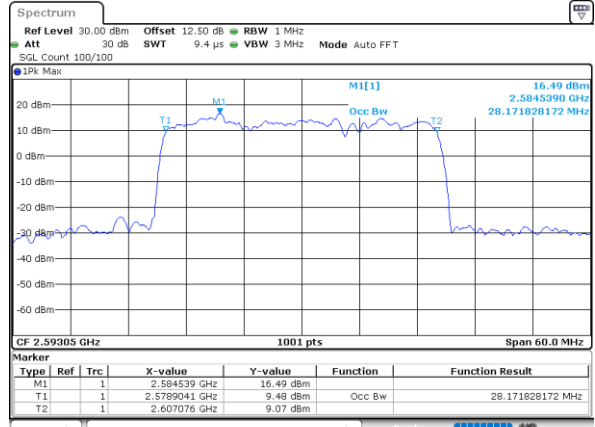
16QAM

Middle Channel / 20MHz+5MHz



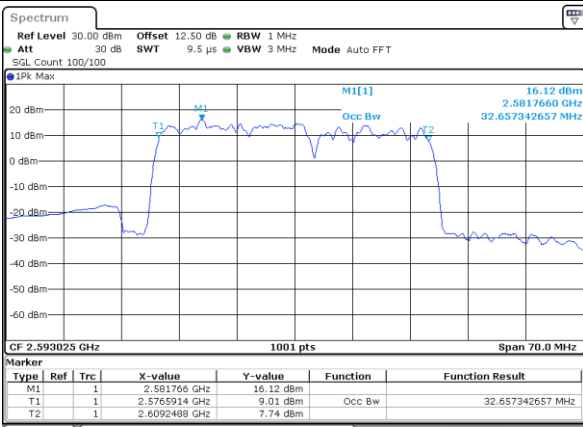
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Middle Channel / 20MHz+10MHz



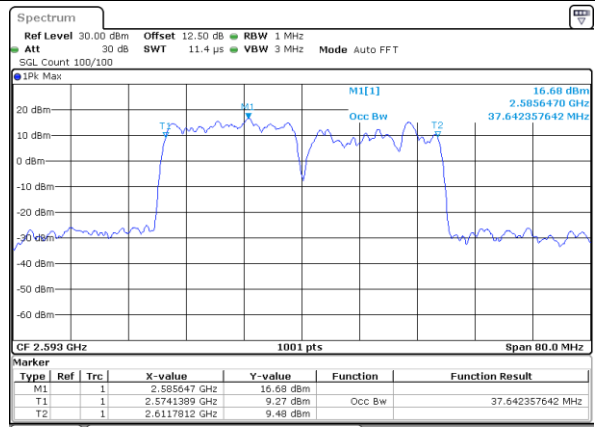
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Middle Channel / 20MHz+15MHz



Date: 20\_SEP.2022 13:53:02

Middle Channel / 20MHz+20MHz



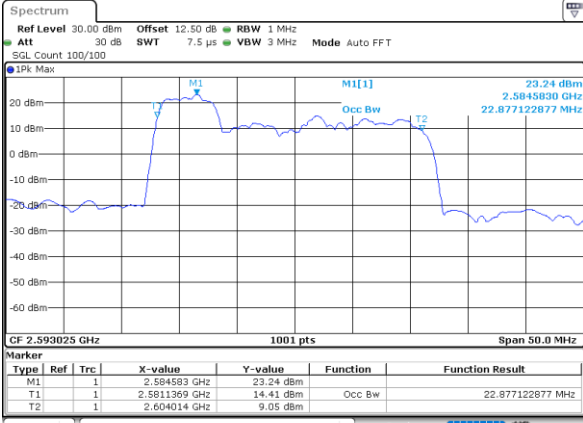
Date: 20\_SEP.2022 14:16:42



LTE Band 41C

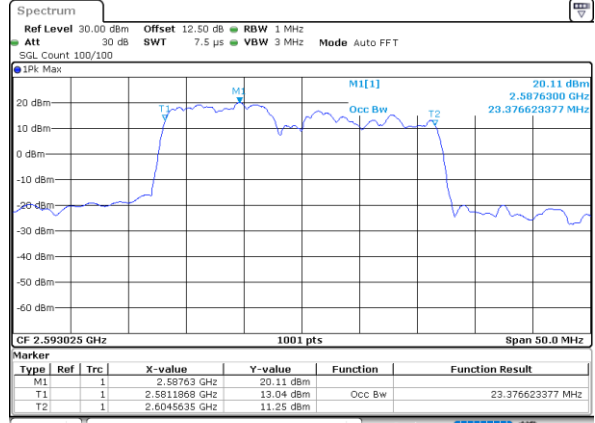
64QAM

Middle Channel / 5MHz+20MHz



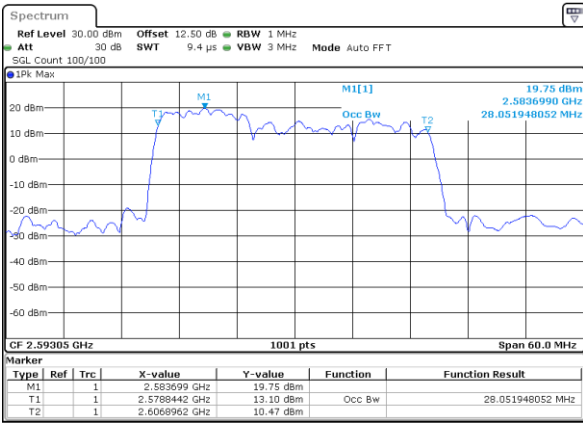
Date: 19\_SEP.2022 08:42:39

Middle Channel / 10MHz+15MHz



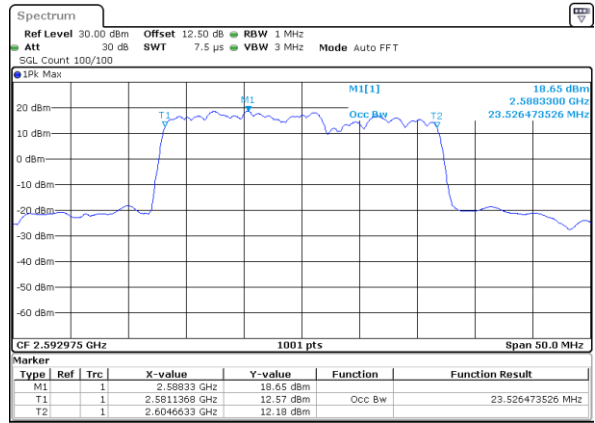
Date: 20\_SEP.2022 09:46:34

Middle Channel / 10MHz+20MHz



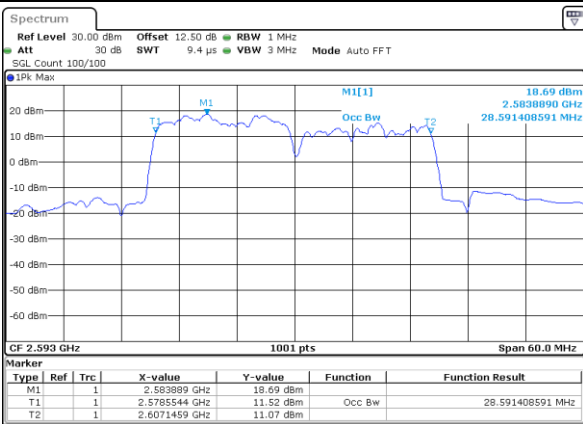
Date: 20\_SEP.2022 10:33:35

Middle Channel / 15MHz+10MHz



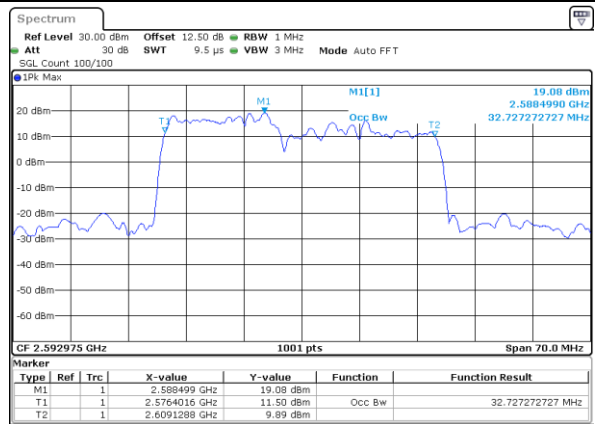
Date: 20\_SEP.2022 10:10:05

Middle Channel / 15MHz+15MHz



Date: 20\_SEP.2022 11:19:42

Middle Channel / 15MHz+20MHz



Date: 20\_SEP.2022 11:40:10

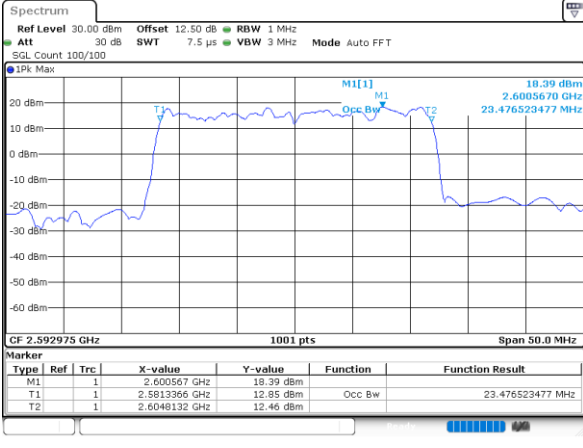




LTE Band 41C

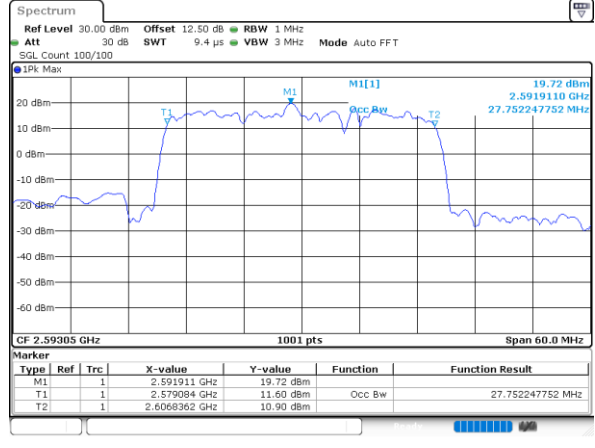
64QAM

Middle Channel / 20MHz+5MHz



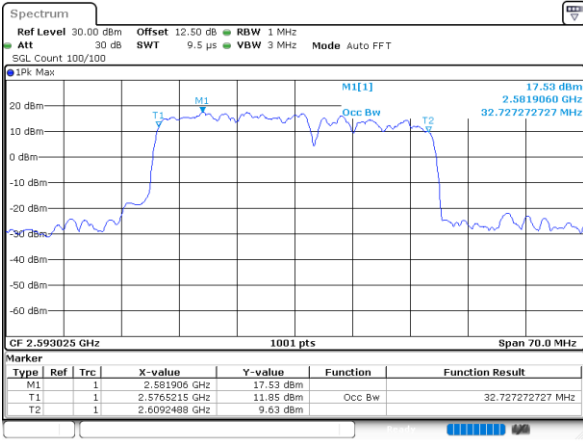
Date: 20\_SEP.2022 09:22:55

Middle Channel / 20MHz+10MHz



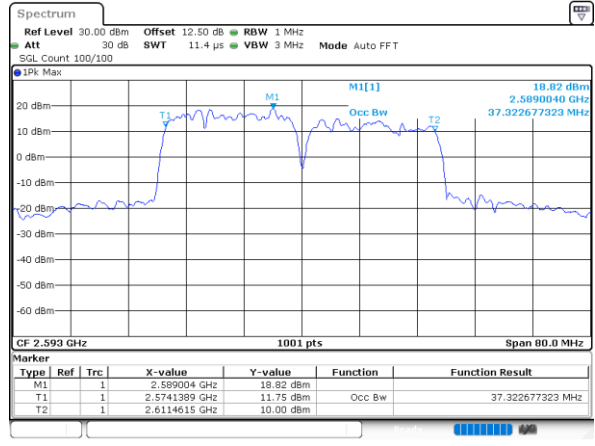
Date: 20\_SEP.2022 10:56:26

Middle Channel / 20MHz+15MHz



Date: 20\_SEP.2022 13:53:40

Middle Channel / 20MHz+20MHz



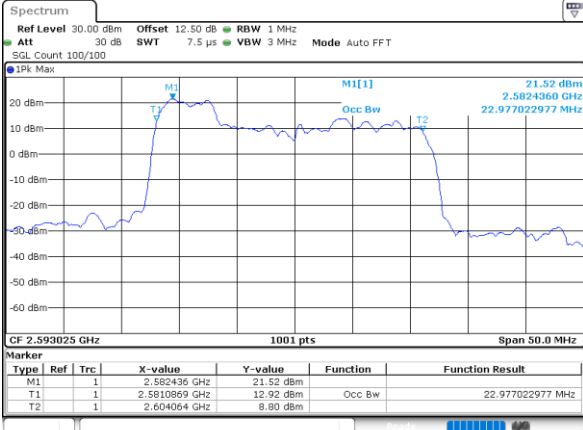
Date: 20\_SEP.2022 14:17:18



LTE Band 41C

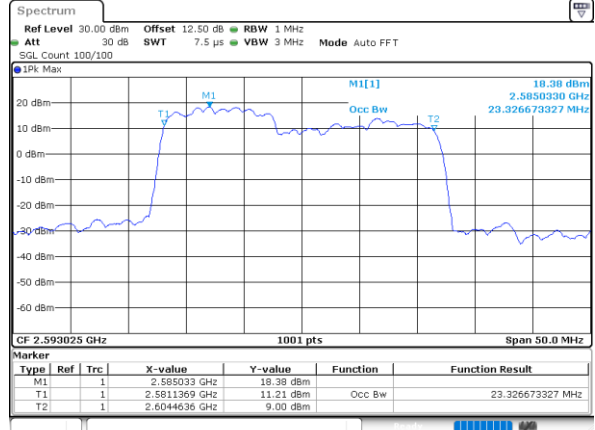
256QAM

Middle Channel / 5MHz+20MHz



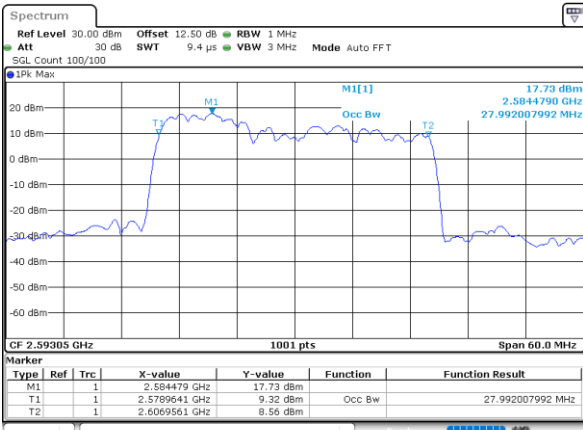
Date: 19\_SEP.2022 08:43:17

Middle Channel / 10MHz+15MHz



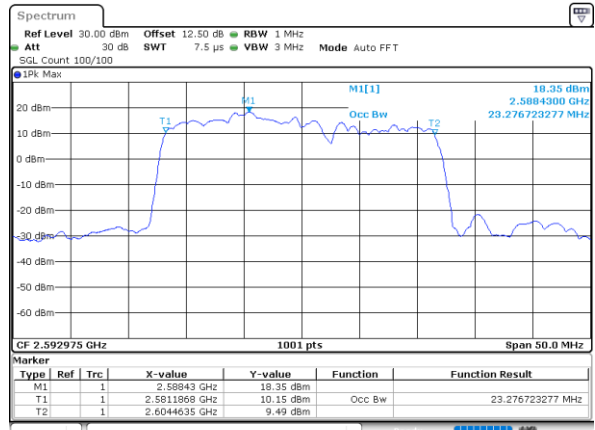
Date: 20\_SEP.2022 09:47:12

Middle Channel / 10MHz+20MHz



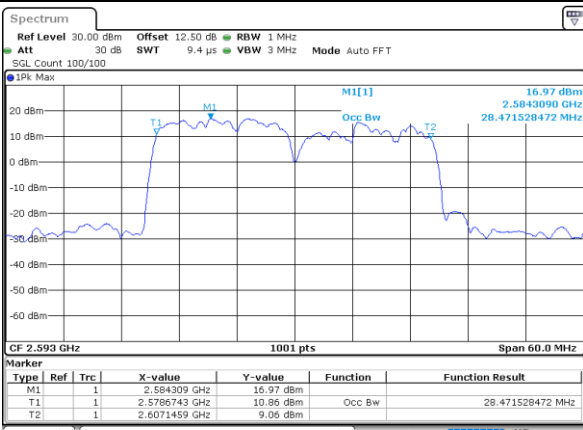
Date: 20\_SEP.2022 10:34:13

Middle Channel / 15MHz+10MHz



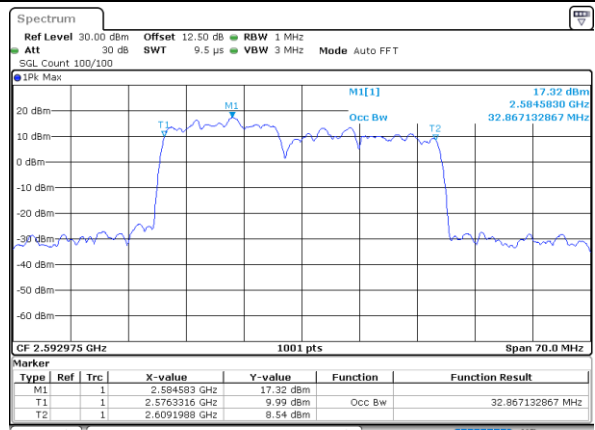
Date: 20\_SEP.2022 10:10:44

Middle Channel / 15MHz+15MHz



Date: 20\_SEP.2022 11:20:15

Middle Channel / 15MHz+20MHz



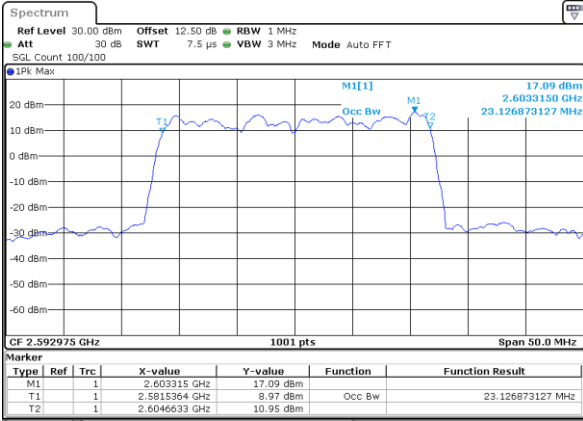
Date: 20\_SEP.2022 11:40:52



LTE Band 41C

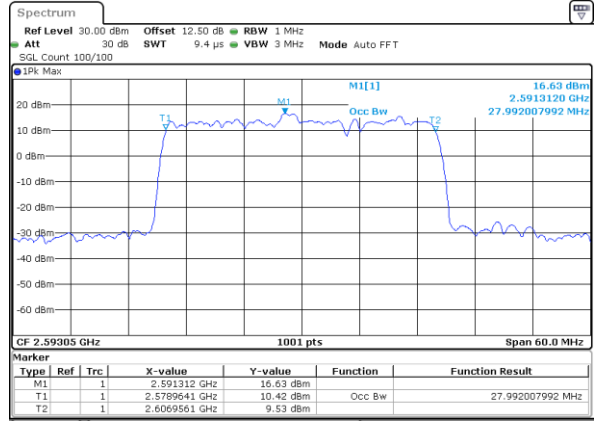
256QAM

Middle Channel / 20MHz+5MHz



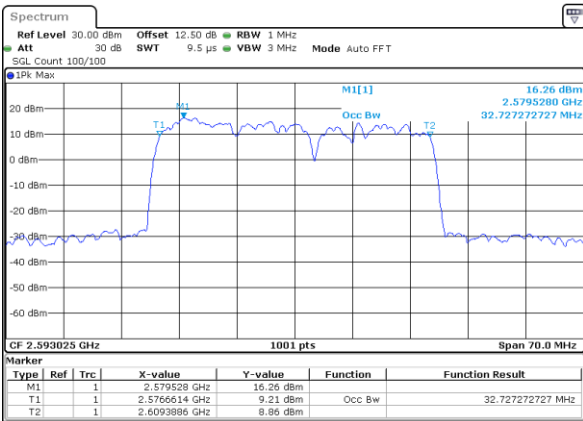
Date: 20\_SEP\_2022 09:23:34

Middle Channel / 20MHz+10MHz



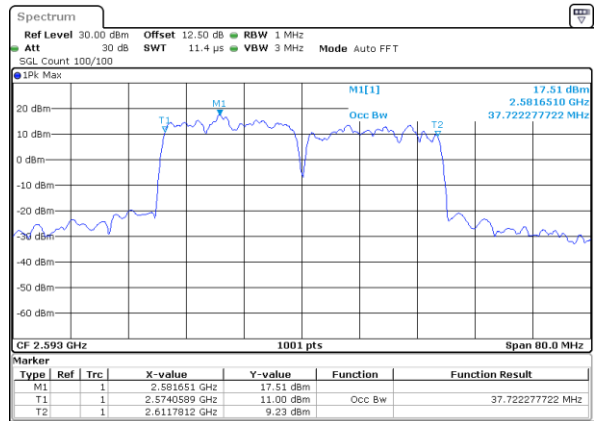
Date: 20\_SEP\_2022 10:57:04

Middle Channel / 20MHz+15MHz



Date: 20\_SEP\_2022 13:54:22

Middle Channel / 20MHz+20MHz



Date: 20\_SEP\_2022 14:17:51



**Conducted Band Edge**

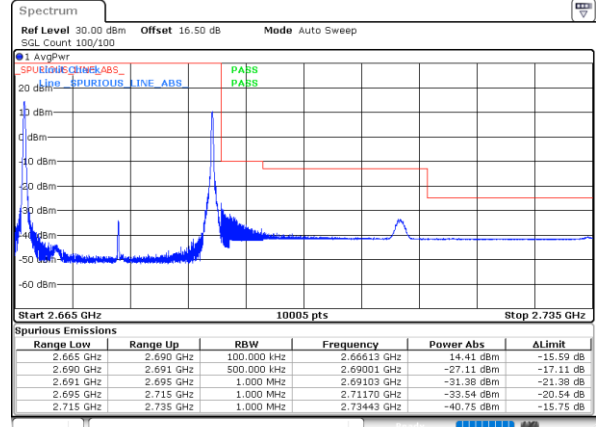
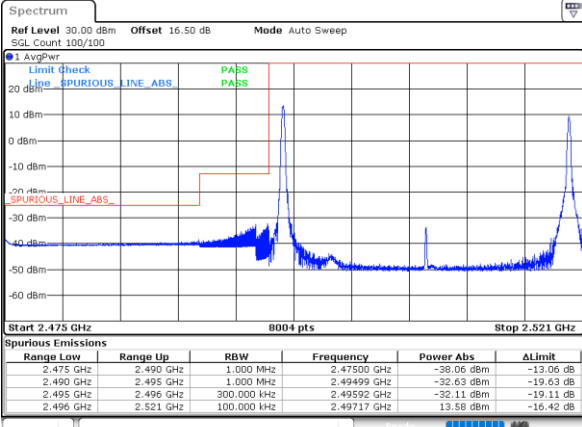


LTE Band 41C / 5MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

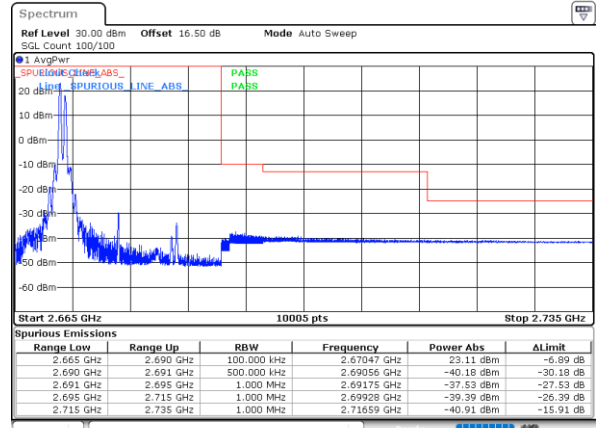
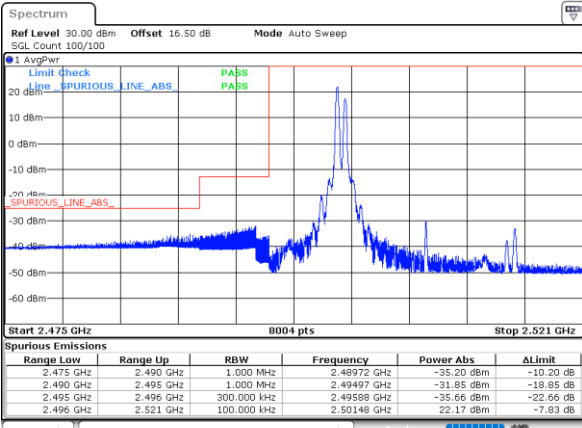


Date: 17\_SEP.2022 19:09:48

Date: 17\_SEP.2022 18:52:17

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

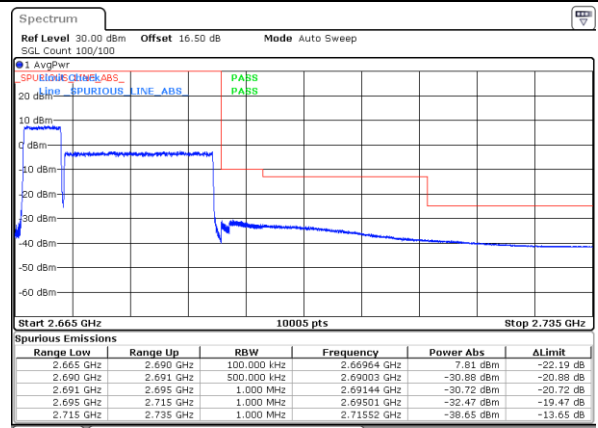
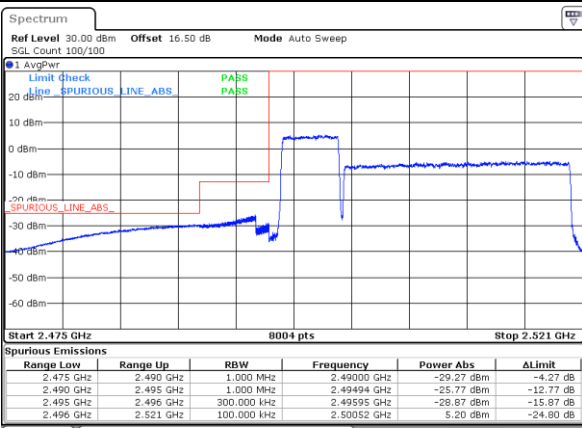


Date: 17\_SEP.2022 19:14:16

Date: 17\_SEP.2022 18:56:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 19:03:57

Date: 17\_SEP.2022 18:46:22

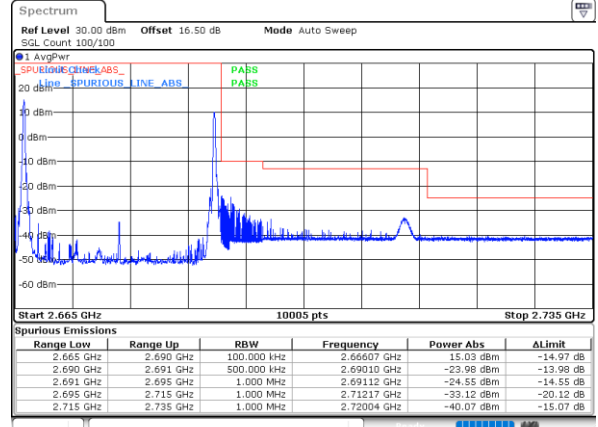
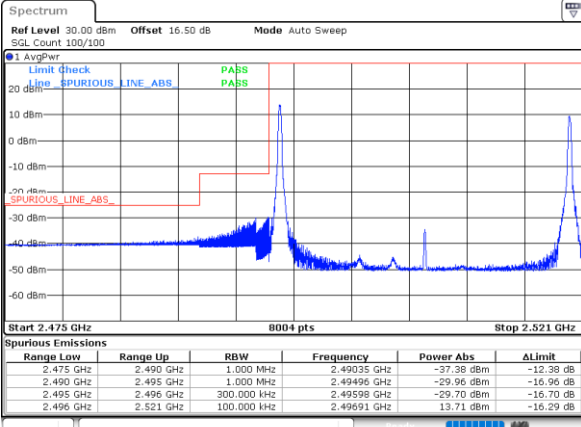


LTE Band 41C / 10MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

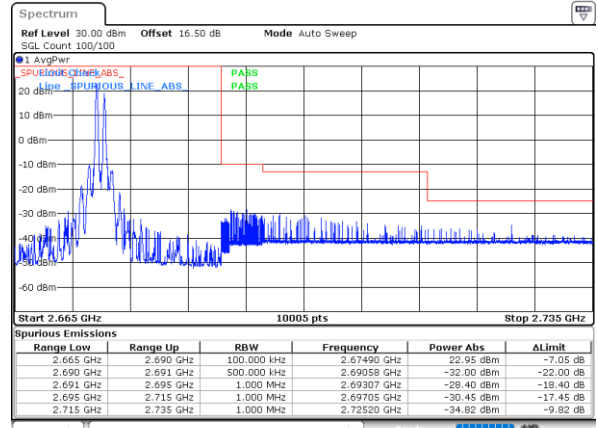
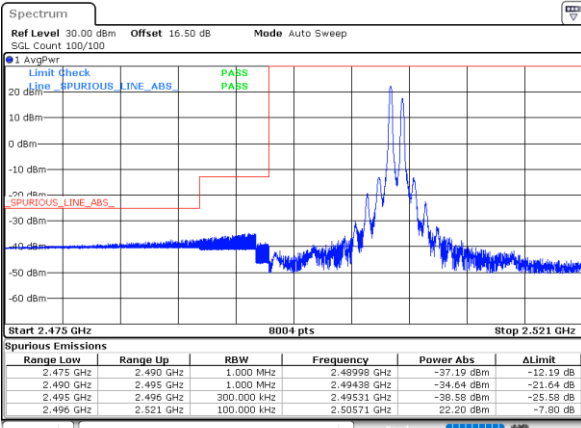


Date: 17\_SEP.2022 19:47:12

Date: 17\_SEP.2022 19:29:48

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

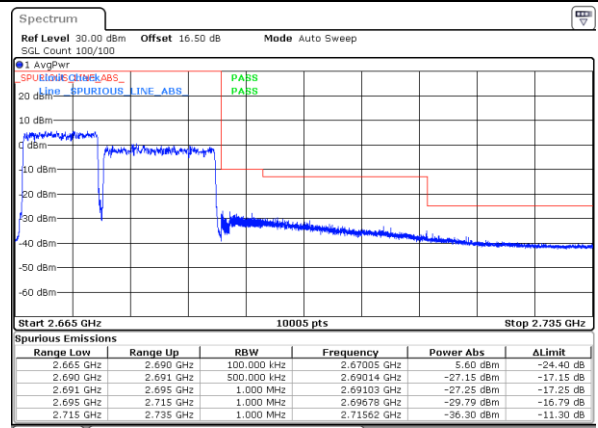
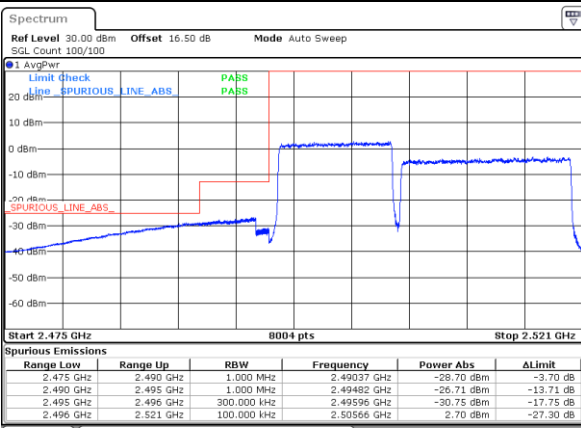


Date: 17\_SEP.2022 19:51:40

Date: 17\_SEP.2022 19:34:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 19:41:21

Date: 17\_SEP.2022 19:23:55

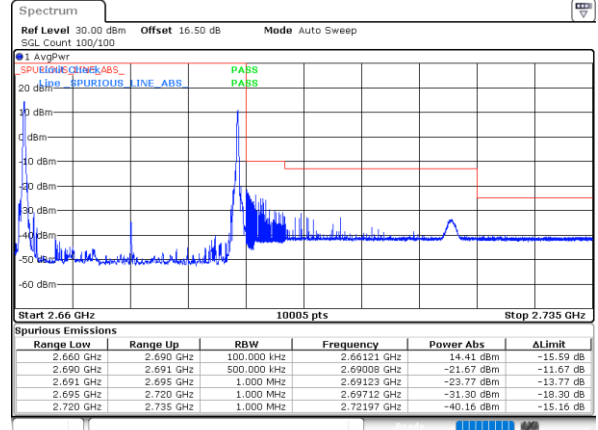
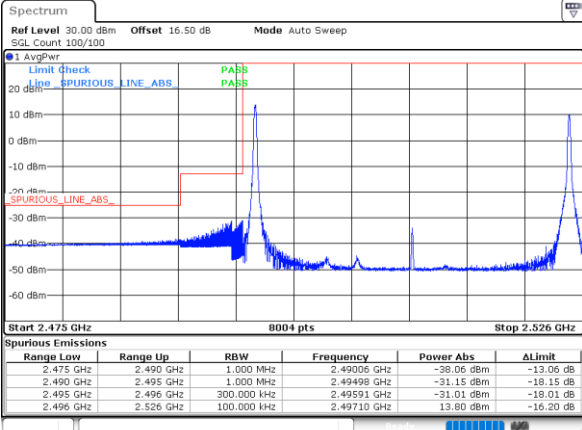


LTE Band 41C / 10MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

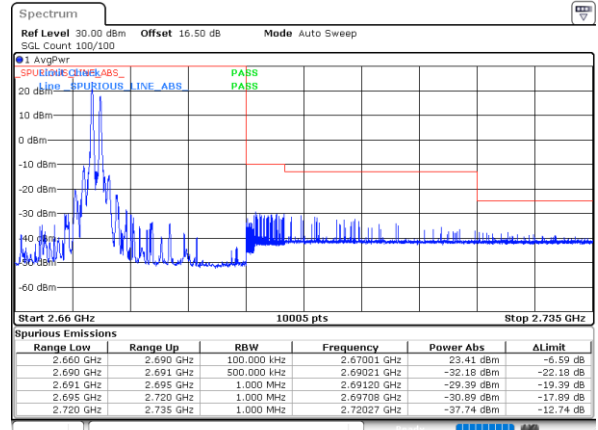
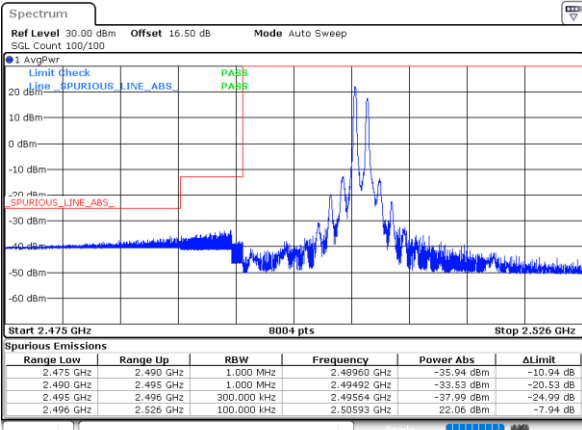


Date: 17\_SEP.2022 20:22:40

Date: 17\_SEP.2022 20:06:13

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

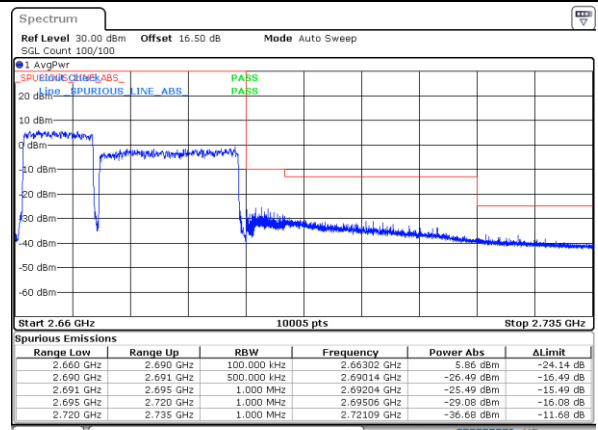
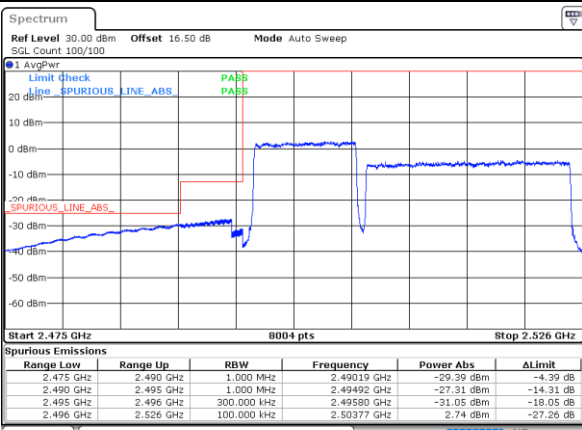


Date: 17\_SEP.2022 20:27:18

Date: 17\_SEP.2022 20:10:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 20:16:46

Date: 17\_SEP.2022 20:00:22

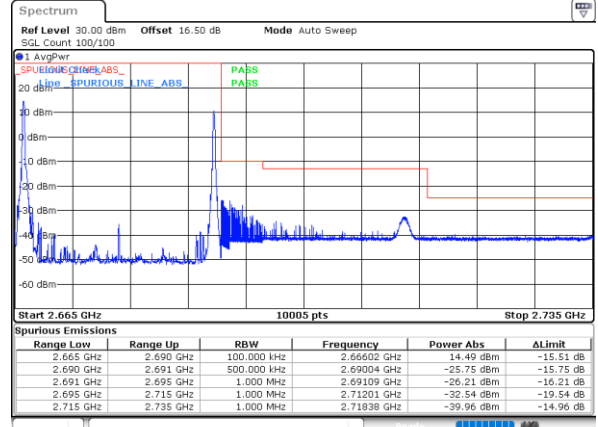
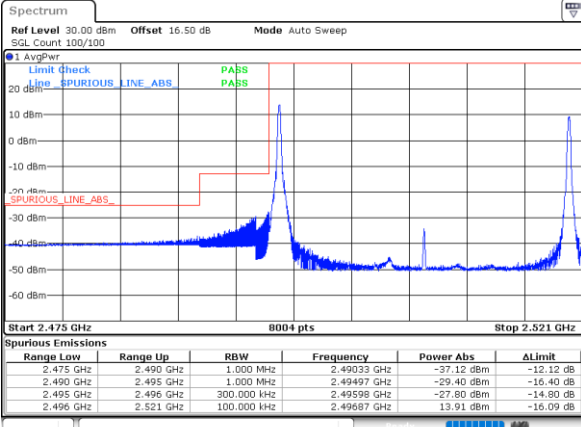


LTE Band 41C / 15MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

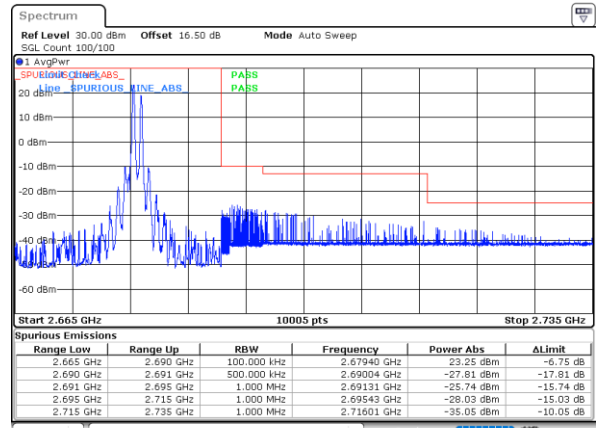
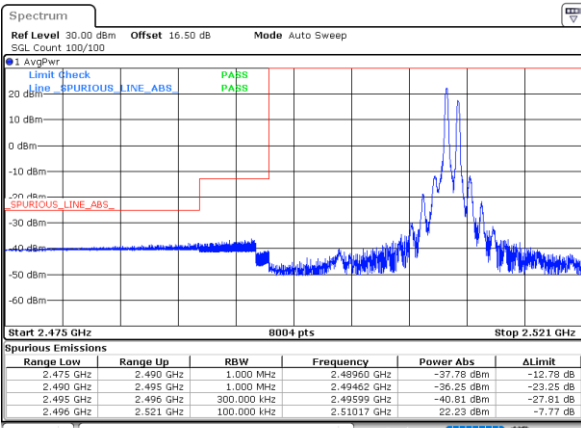


Date: 17\_SEP.2022 20:41:53

Date: 17\_SEP.2022 20:58:09

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

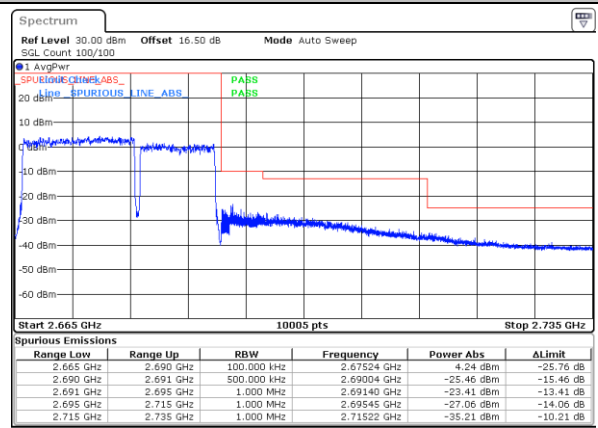
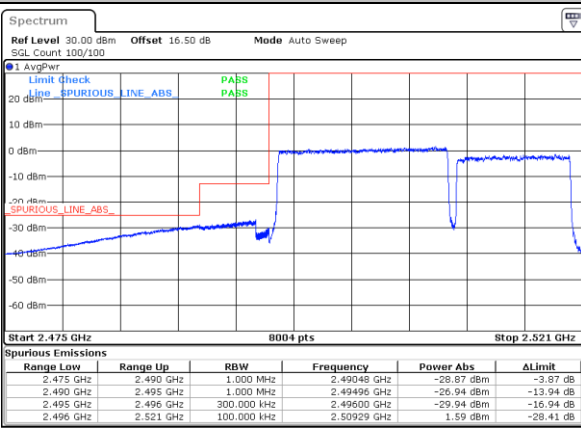


Date: 17\_SEP.2022 20:46:23

Date: 17\_SEP.2022 21:02:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 20:36:03

Date: 17\_SEP.2022 20:52:18



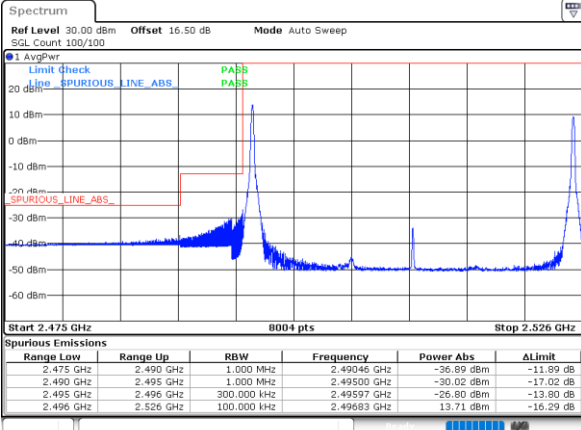


LTE Band 41C / 15MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

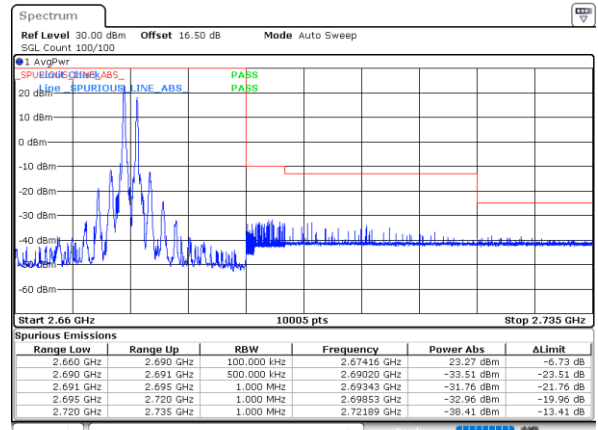
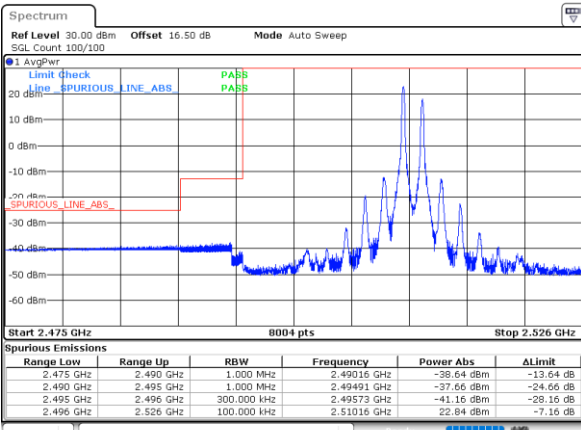


Date: 17\_SEP.2022 21:17:01

Date: 17\_SEP.2022 21:32:18

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

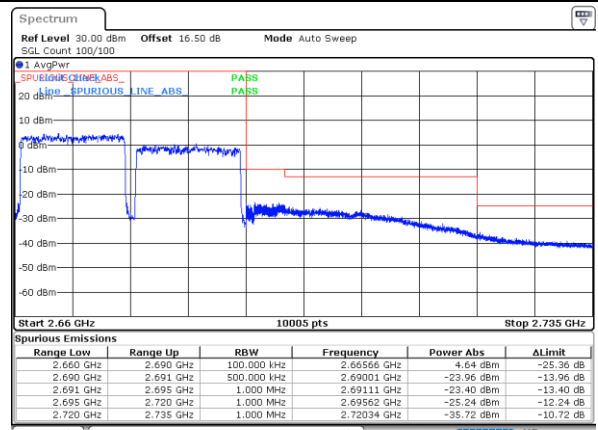
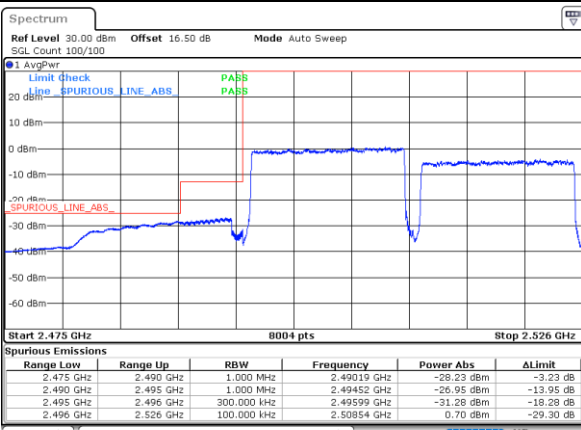


Date: 17\_SEP.2022 21:21:14

Date: 17\_SEP.2022 21:36:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 21:11:30

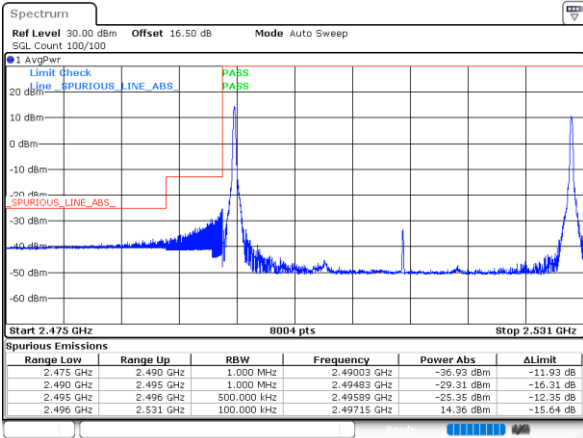
Date: 17\_SEP.2022 21:26:49



LTE Band 41C / 15MHz+20MHz

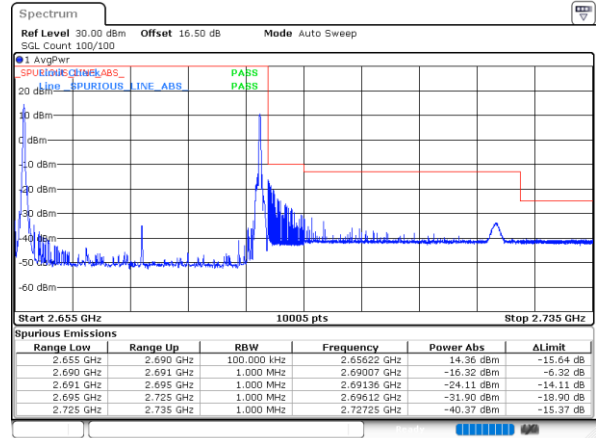
QPSK

Lowest Band Edge / 1RB0 and 1RB9



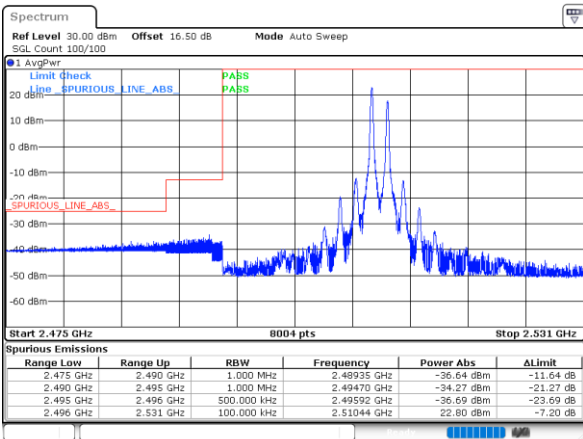
Date: 17\_SEP.2022 21:50:38

Highest Band Edge / 1RB0 and 1RB9



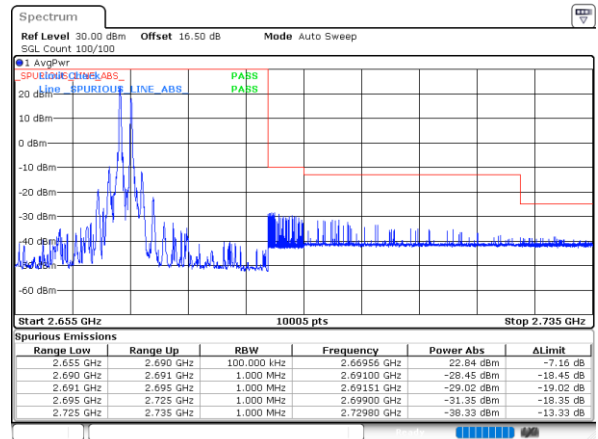
Date: 17\_SEP.2022 22:07:09

Lowest Band Edge / 1RB74 and 1RB0



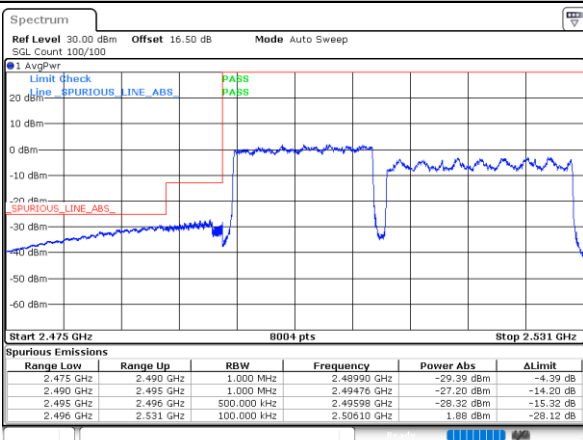
Date: 17\_SEP.2022 21:55:16

Highest Band Edge / 1RB74 and 1RB0



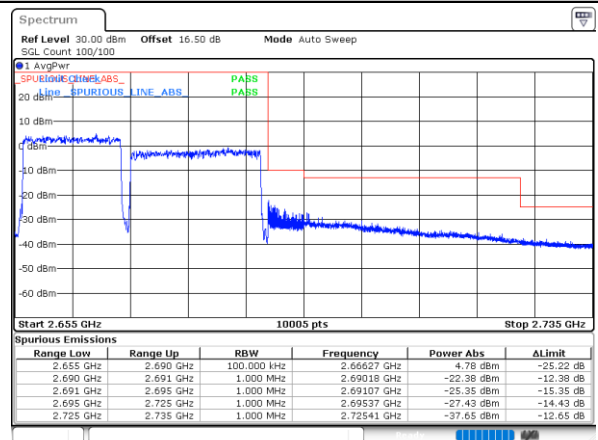
Date: 17\_SEP.2022 22:11:43

Lowest Band Edge / Full RB



Date: 17\_SEP.2022 21:44:45

Highest Band Edge / Full RB



Date: 17\_SEP.2022 22:01:17

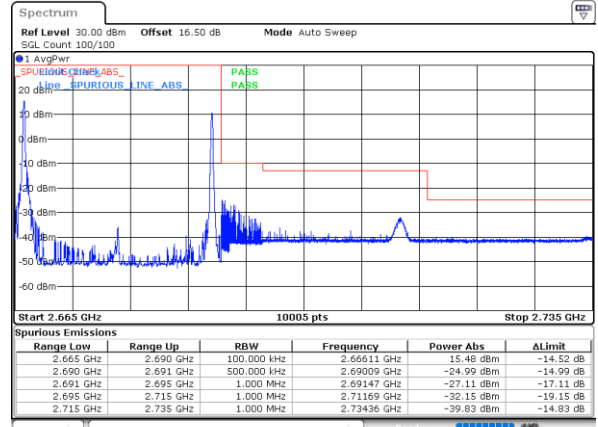
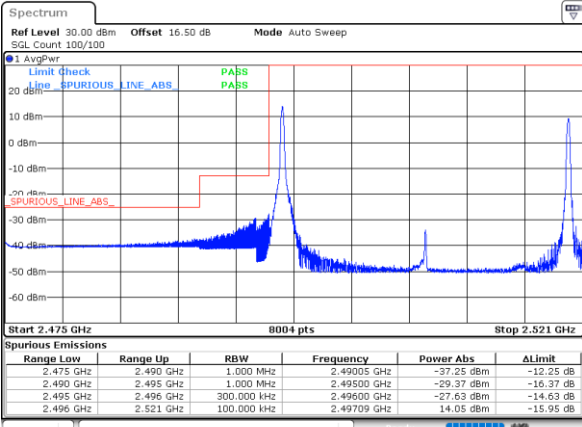


LTE Band 41C / 20MHz+5MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

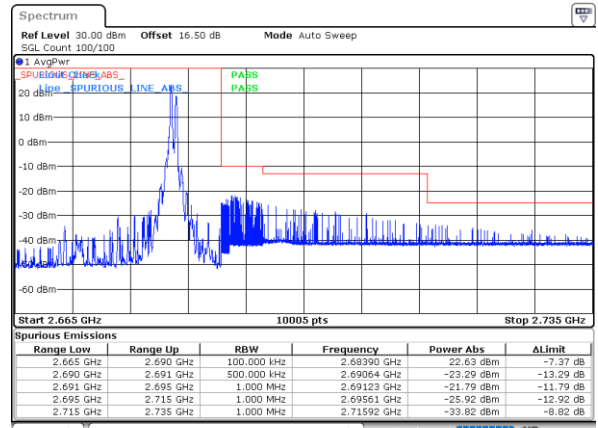
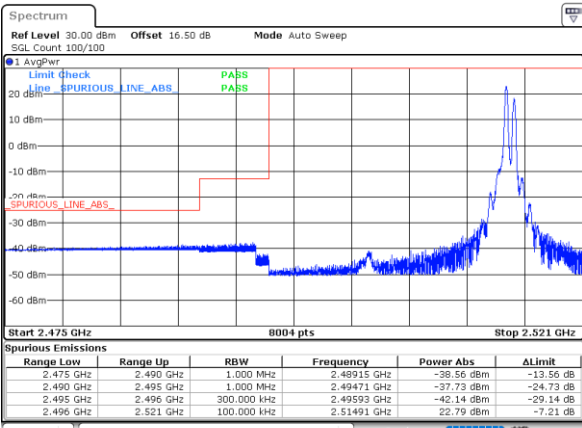


Date: 17\_SEP.2022 22:26:14

Date: 17\_SEP.2022 22:42:32

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

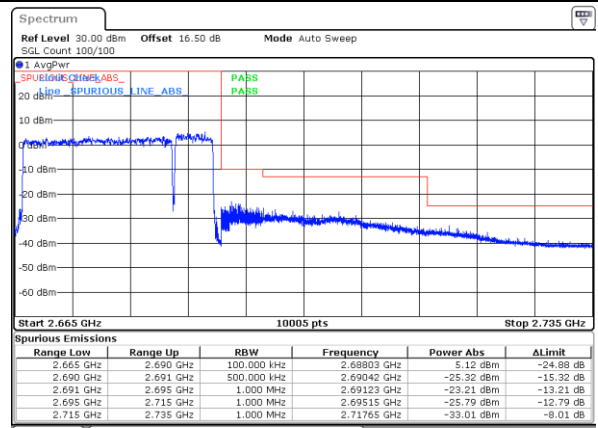
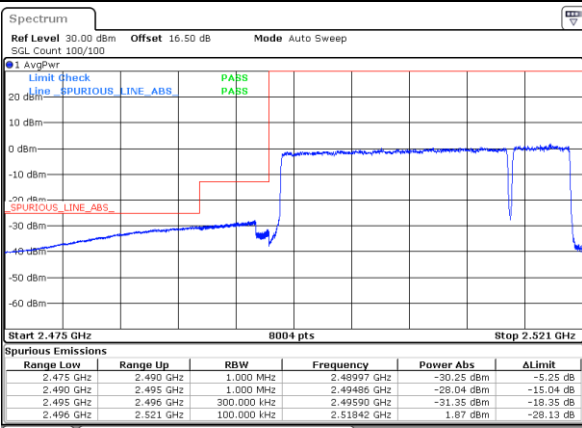


Date: 17\_SEP.2022 22:30:43

Date: 17\_SEP.2022 22:47:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 22:20:26

Date: 17\_SEP.2022 22:36:40

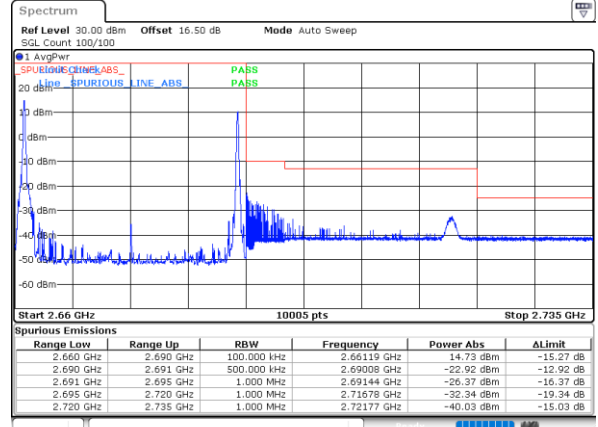
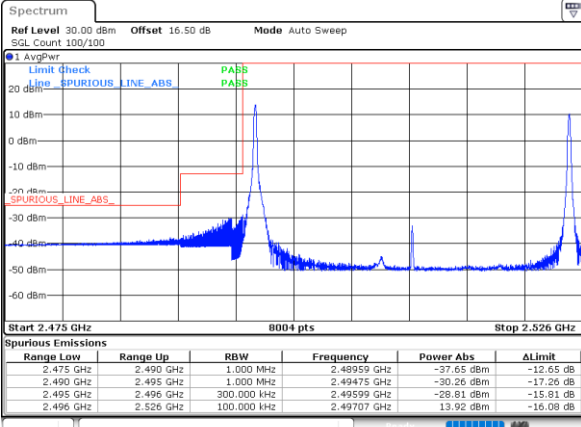


LTE Band 41C / 20MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

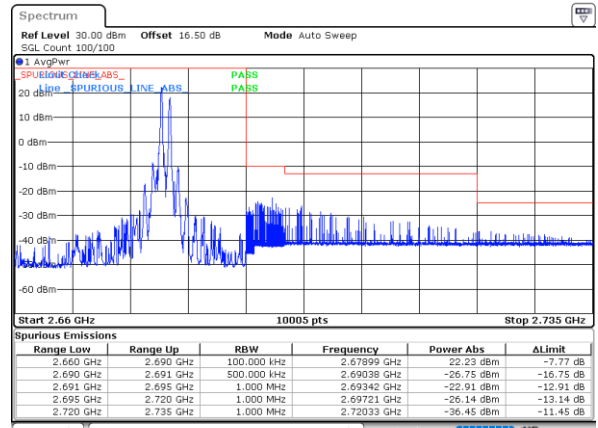
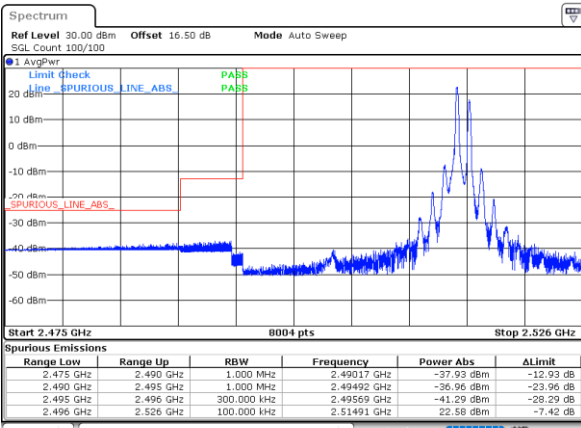


Date: 17\_SEP.2022 23:01:51

Date: 17\_SEP.2022 23:18:22

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

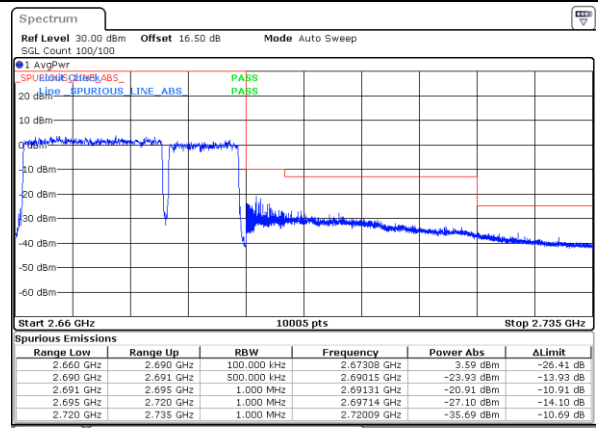
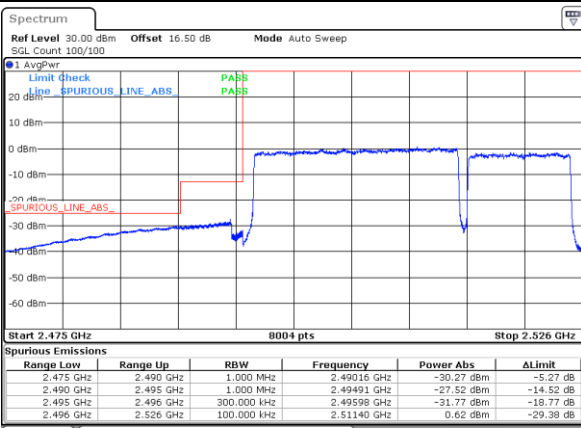


Date: 17\_SEP.2022 23:06:26

Date: 17\_SEP.2022 23:12:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 22:55:56

Date: 17\_SEP.2022 23:12:29

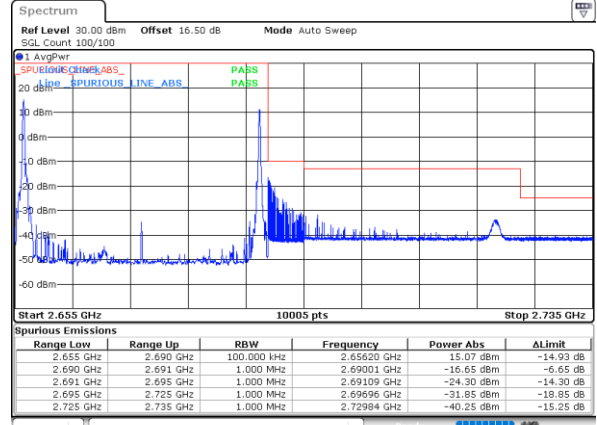
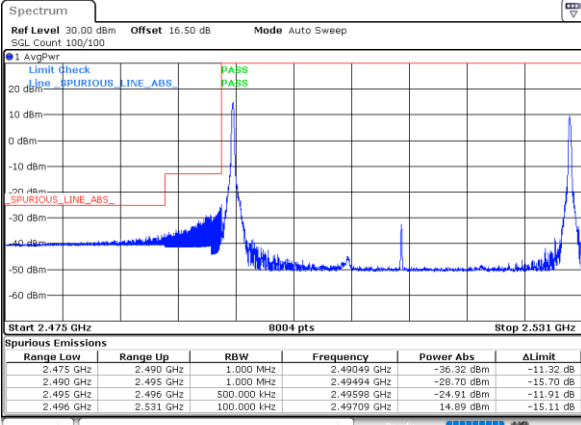


LTE Band 41C / 20MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

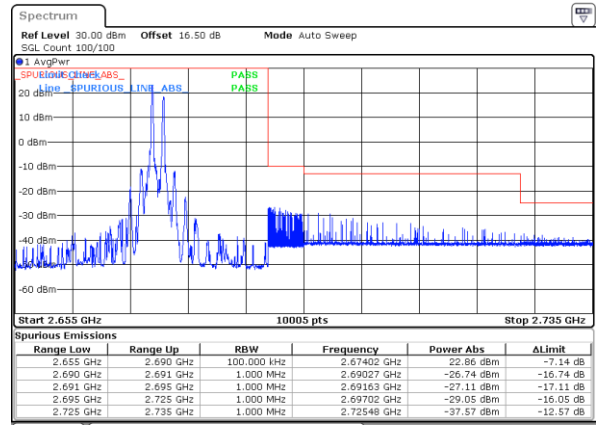
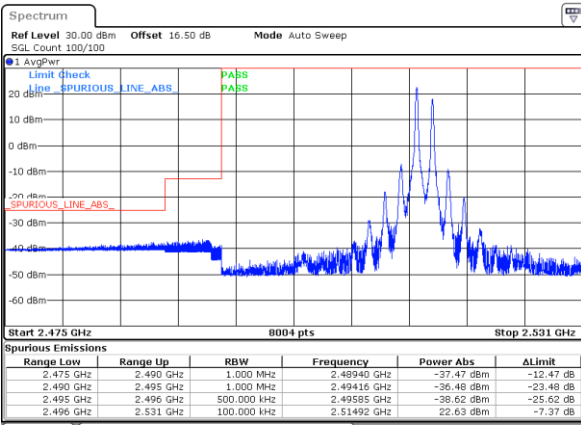


Date: 17\_SEP.2022 23:37:36

Date: 17\_SEP.2022 23:54:08

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

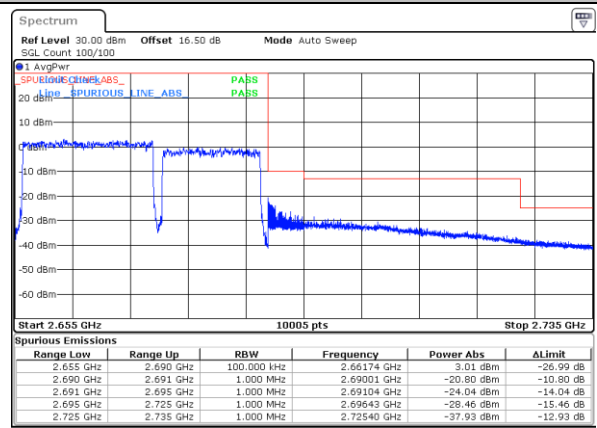
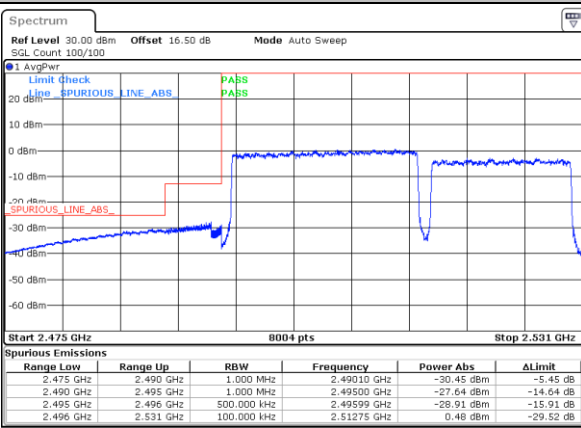


Date: 17\_SEP.2022 23:42:14

Date: 17\_SEP.2022 23:56:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17\_SEP.2022 23:31:42

Date: 17\_SEP.2022 23:48:15