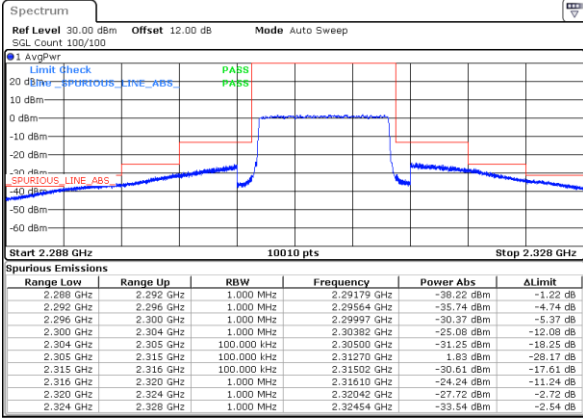




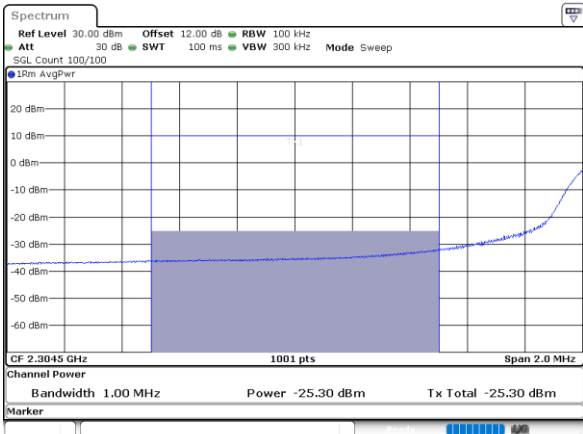
LTE Band 30 / 10MHz / 64QAM

Middle Band Edge / Full RB



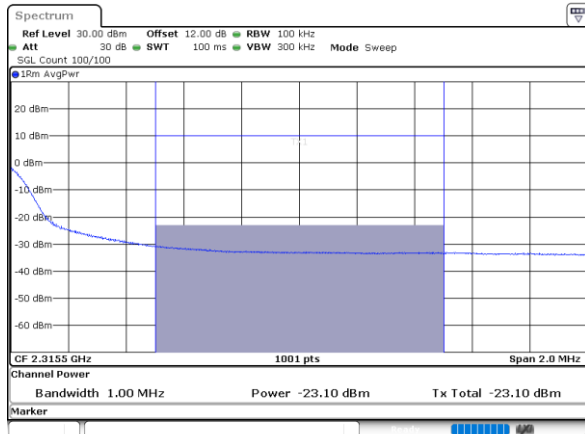
Date: 29.MAY.2024 01:28:54

Middle Band Edge / Full RB / Lower zoom in



Date: 4.JUN.2024 14:26:22

Middle Band Edge / Full RB / Upper zoom in

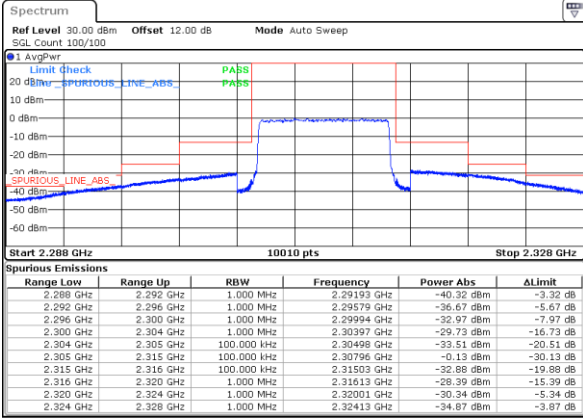


Date: 4.JUN.2024 14:26:45



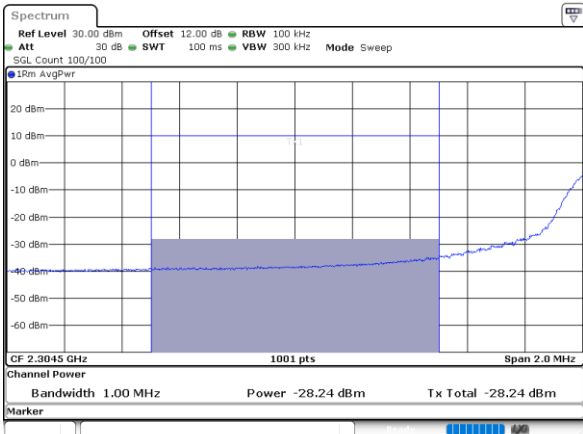
LTE Band 30 / 10MHz / 256QAM

Middle Band Edge / Full RB



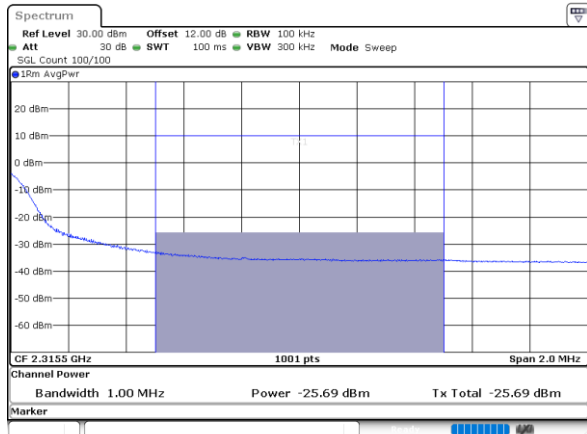
Date: 29_MAY.2024 01:29:47

Middle Band Edge / Full RB / Lower zoom in



Date: 4_JUN.2024 14:27:23

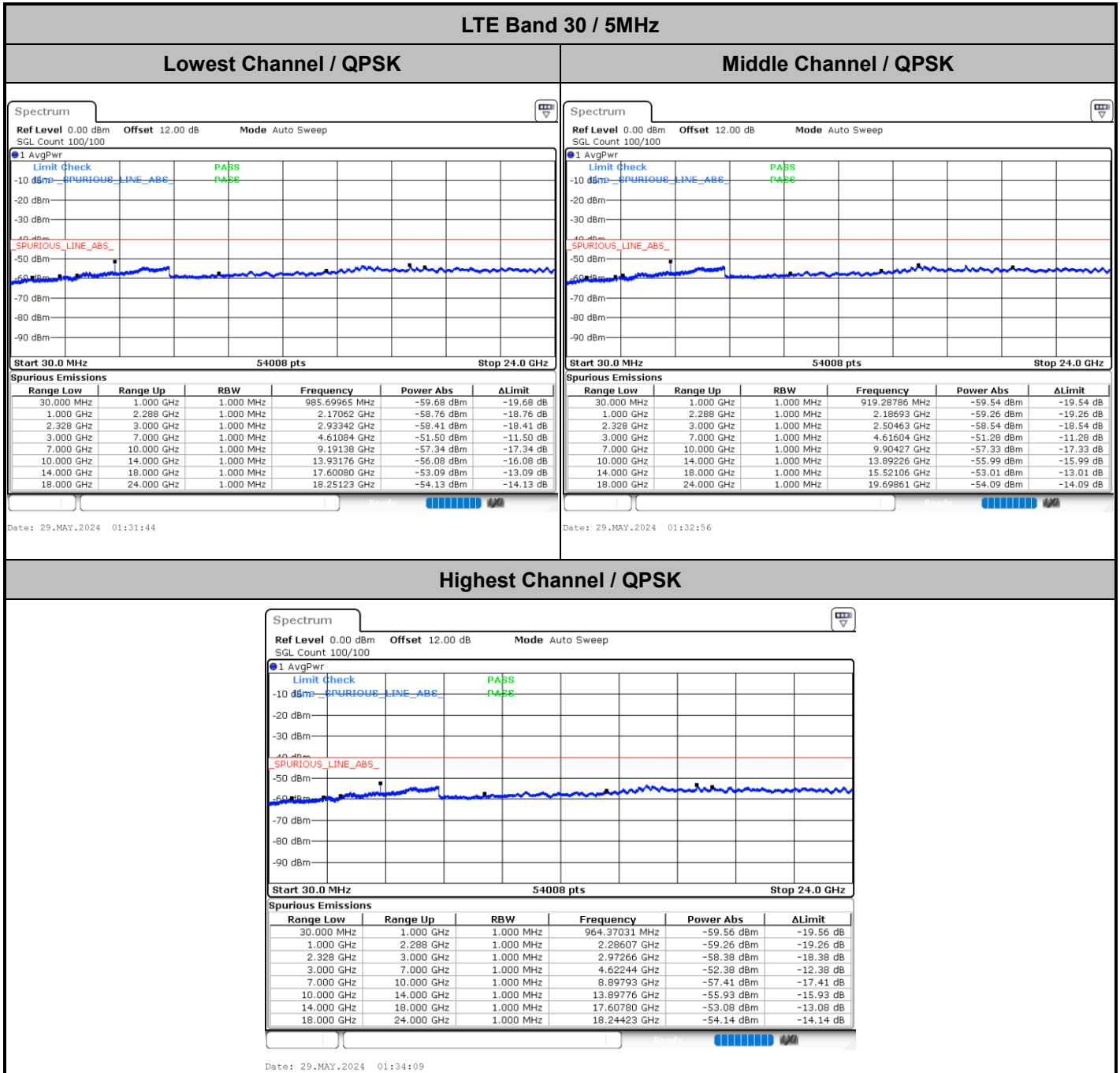
Middle Band Edge / Full RB / Upper zoom in



Date: 4_JUN.2024 14:27:43



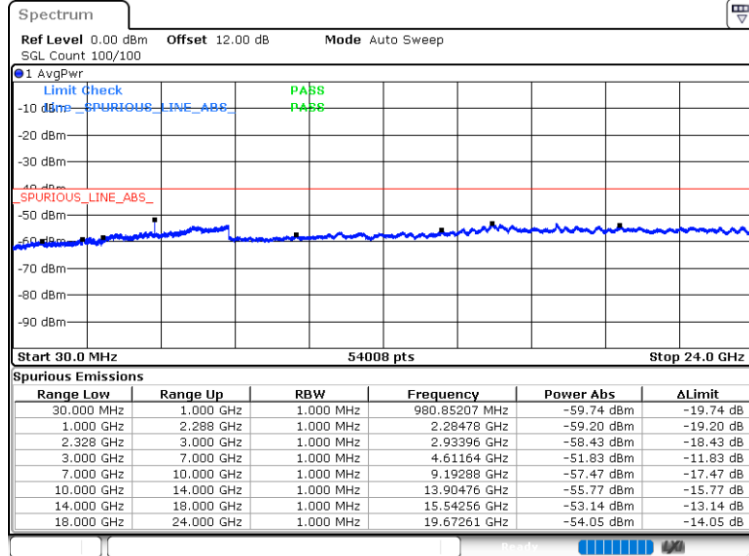
Conducted Spurious Emission





LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 29.MAY.2024 01:46:51



Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0055	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0046	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0051	

Note:

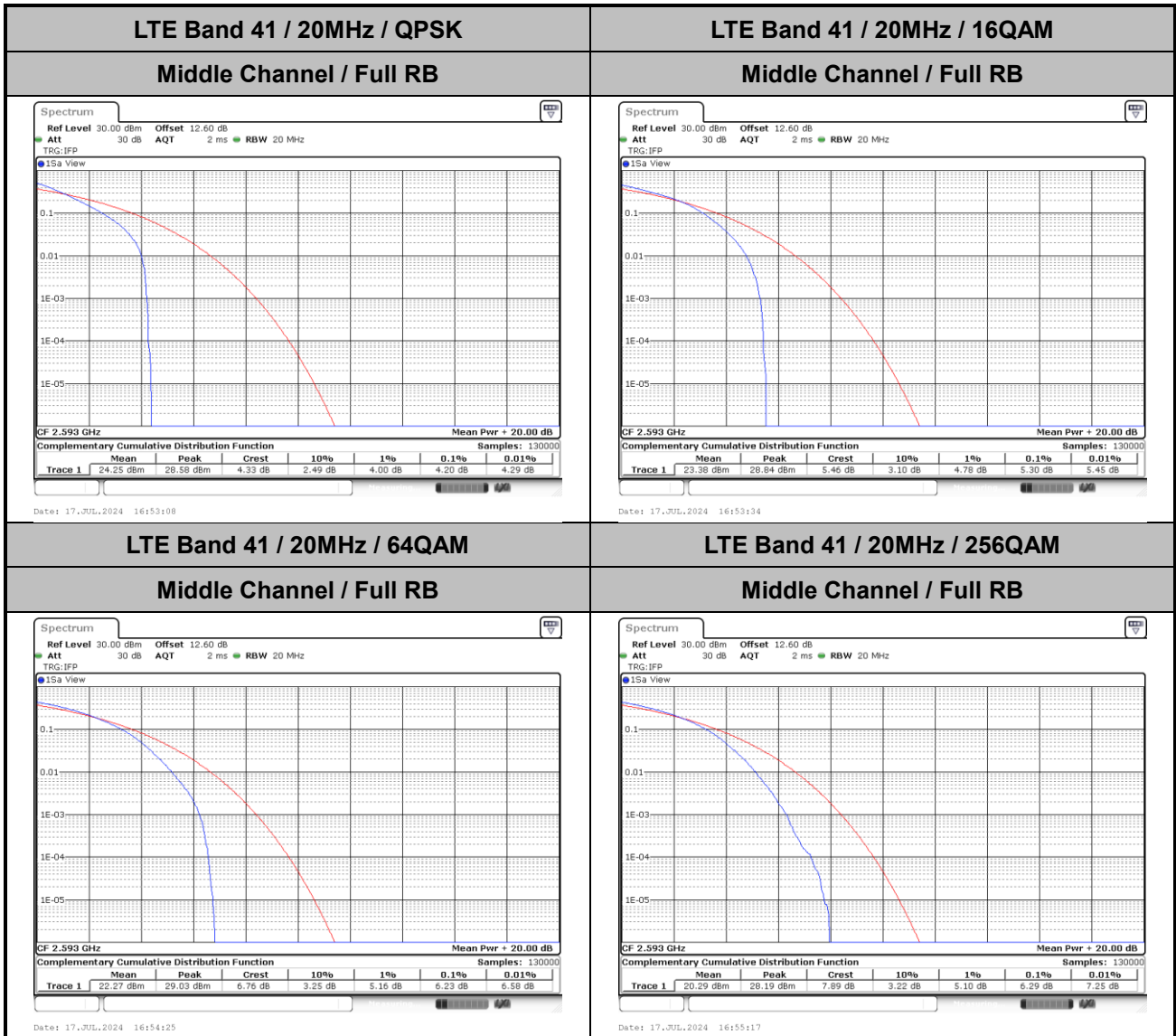
1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.465 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.20	5.30	6.23	6.29	PASS





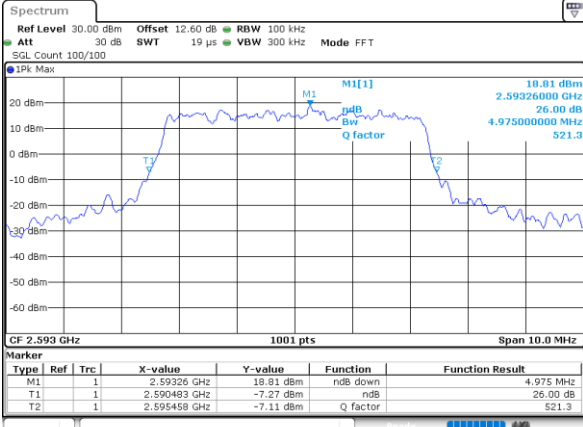
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.97	4.85	9.91	9.89	14.41	15.40	19.06	18.94
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	5.05	4.97	9.63	9.78	14.62	14.26	19.14	18.62



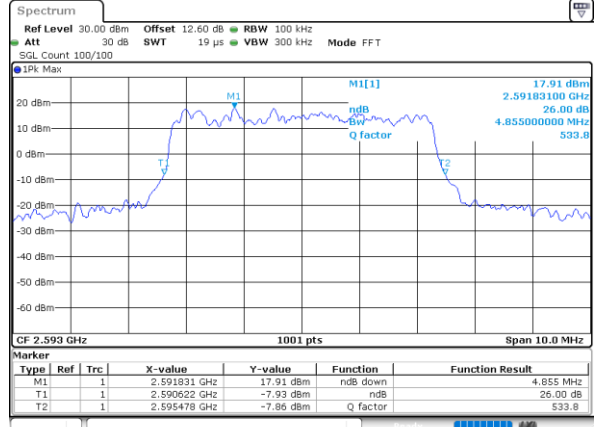
LTE Band 41

Middle Channel / 5MHz / QPSK



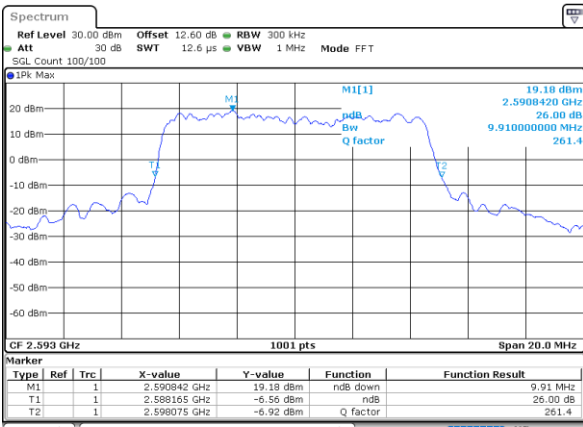
Date: 17_JUL_2024 16:03:32

Middle Channel / 5MHz / 16QAM



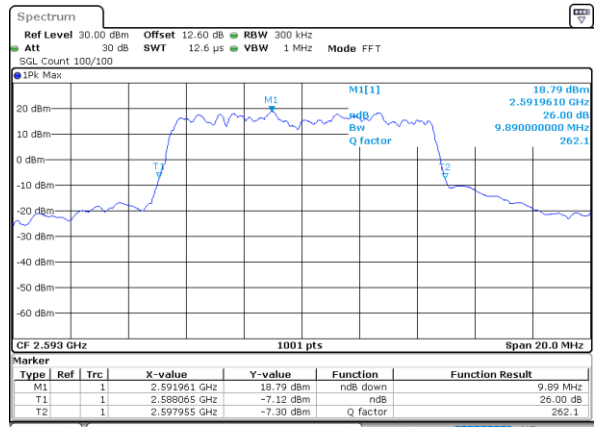
Date: 17_JUL_2024 16:04:09

Middle Channel / 10MHz / QPSK



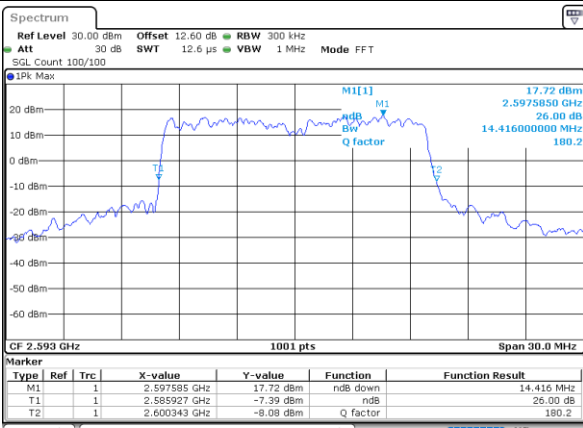
Date: 17_JUL_2024 16:20:38

Middle Channel / 10MHz / 16QAM



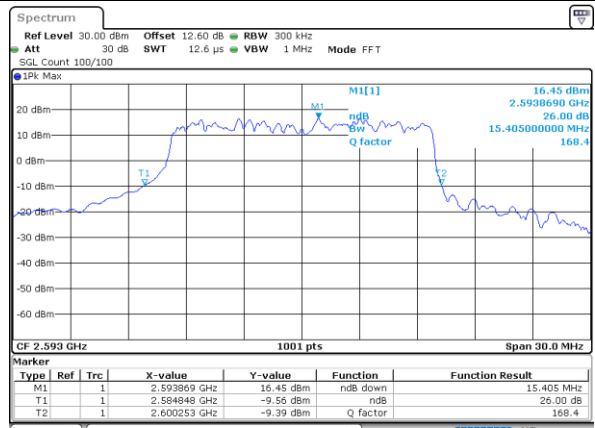
Date: 17_JUL_2024 16:21:16

Middle Channel / 15MHz / QPSK



Date: 17_JUL_2024 16:33:37

Middle Channel / 15MHz / 16QAM

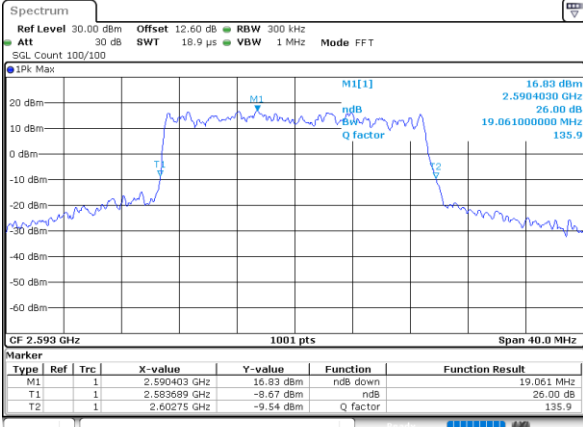


Date: 17_JUL_2024 16:34:14



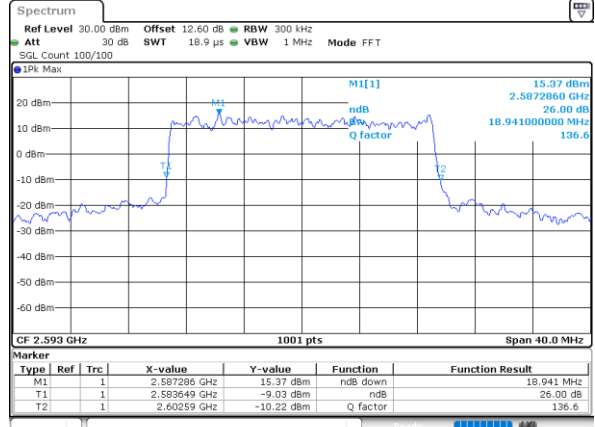
LTE Band 41

Middle Channel / 20MHz / QPSK



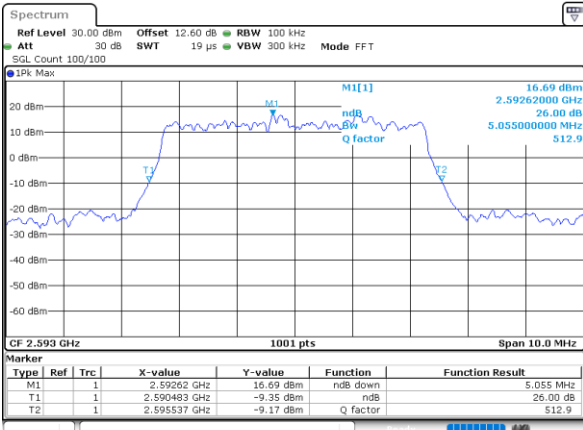
Date: 17_JUL_2024 16:52:54

Middle Channel / 20MHz / 16QAM



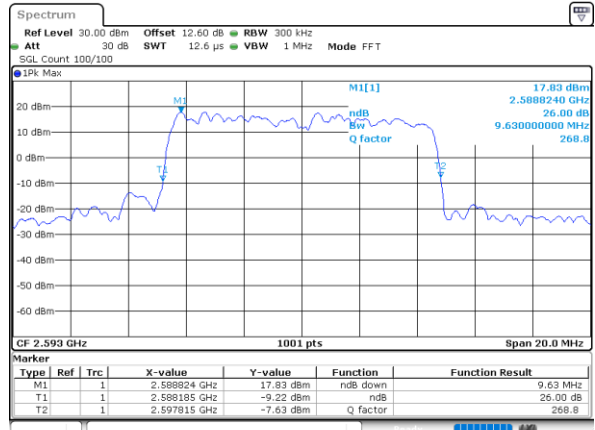
Date: 17_JUL_2024 16:54:00

Middle Channel / 5MHz / 64QAM



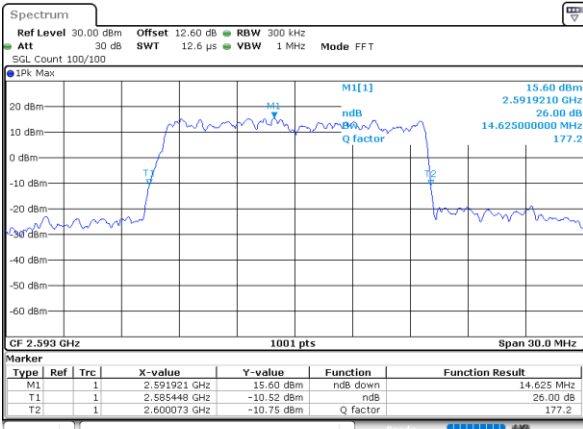
Date: 17_JUL_2024 16:04:46

Middle Channel / 10MHz / 64QAM



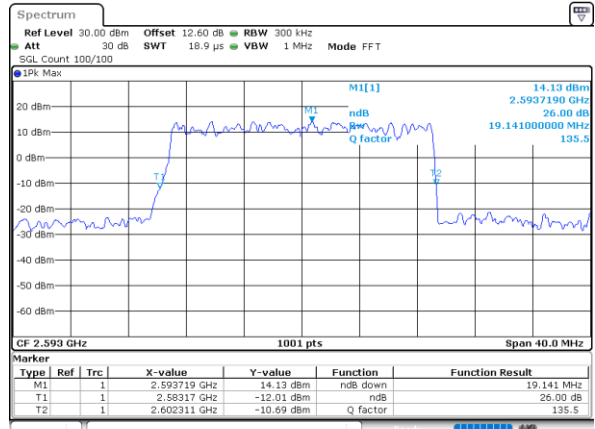
Date: 17_JUL_2024 16:21:53

Middle Channel / 15MHz / 64QAM



Date: 17_JUL_2024 16:34:52

Middle Channel / 20MHz / 64QAM

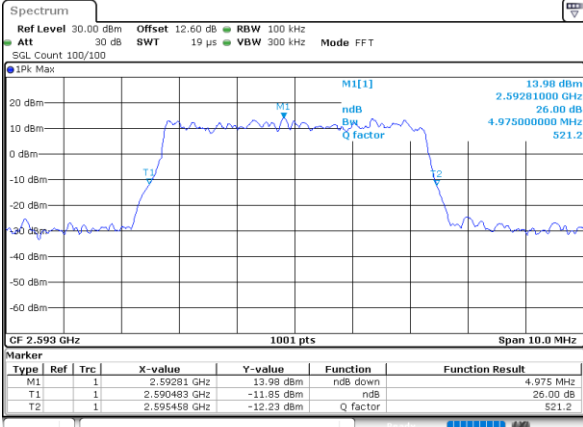


Date: 17_JUL_2024 16:54:51



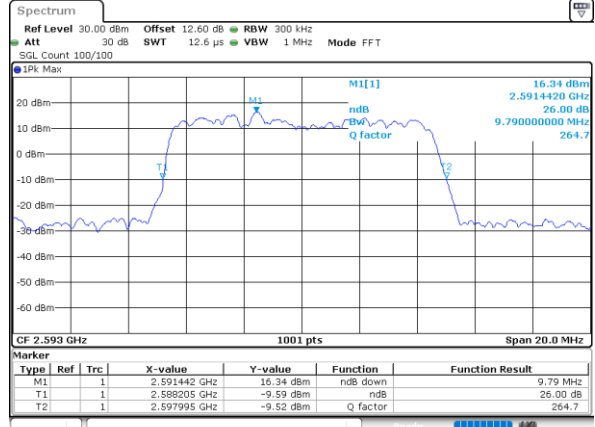
LTE Band 41

Middle Channel / 5MHz / 256QAM



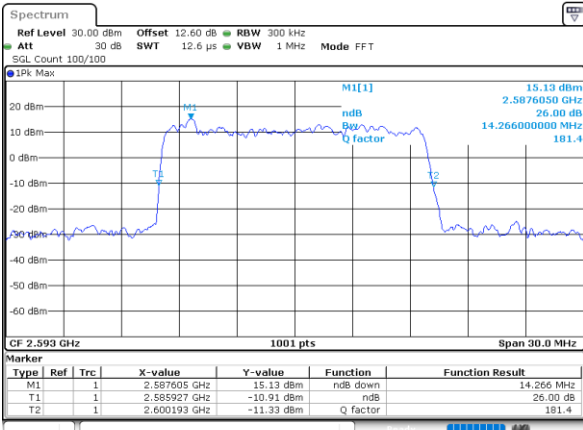
Date: 17_JUL_2024 16:05:24

Middle Channel / 10MHz / 256QAM



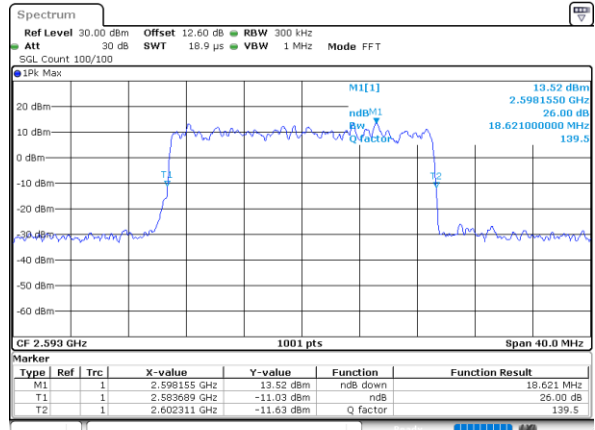
Date: 17_JUL_2024 16:22:31

Middle Channel / 15MHz / 256QAM



Date: 17_JUL_2024 16:35:29

Middle Channel / 20MHz / 256QAM



Date: 17_JUL_2024 16:55:43



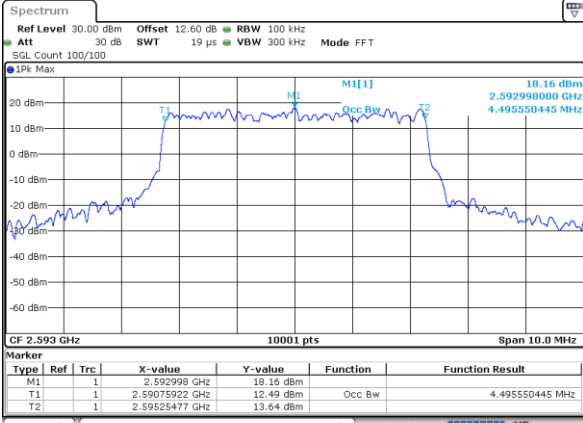
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.49	9.05	8.99	13.45	13.44	17.86	17.86
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.48	4.49	9.04	8.99	13.50	13.45	17.88	17.78



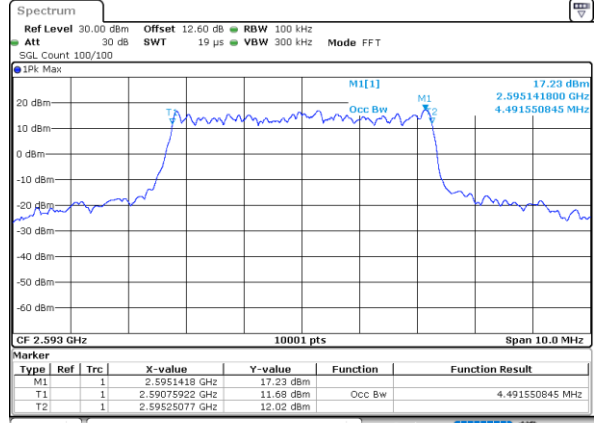
LTE Band 41

Middle Channel / 5MHz / QPSK



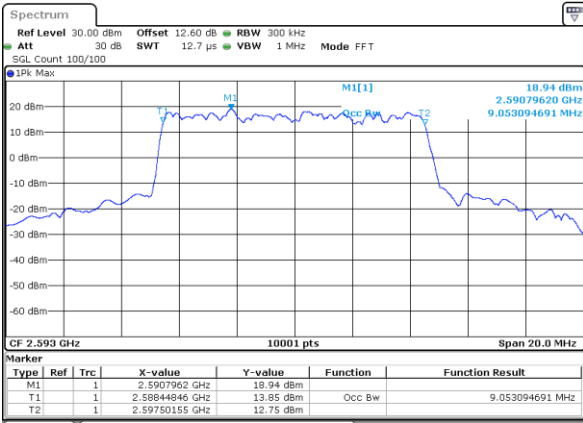
Date: 17_JUL_2024 16:03:19

Middle Channel / 5MHz / 16QAM



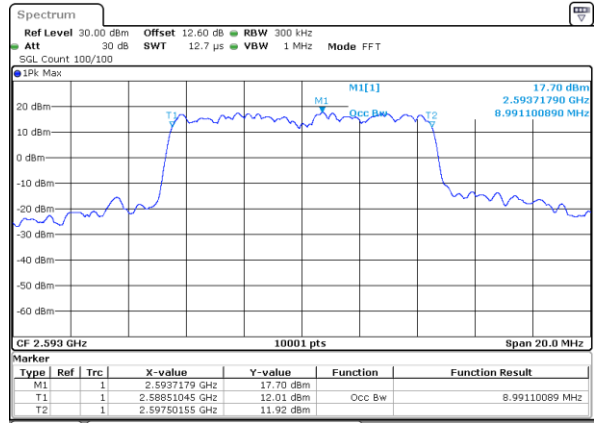
Date: 17_JUL_2024 16:03:56

Middle Channel / 10MHz / QPSK



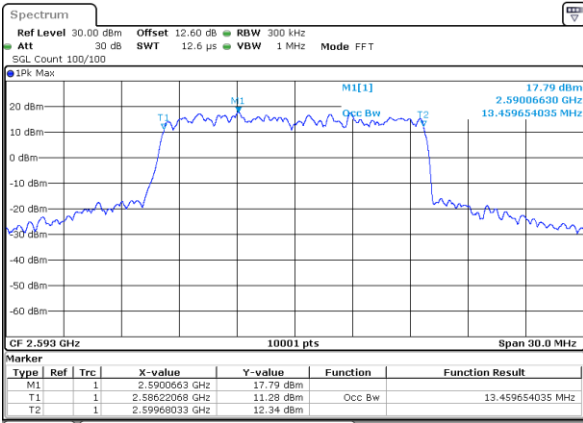
Date: 17_JUL_2024 16:20:25

Middle Channel / 10MHz / 16QAM



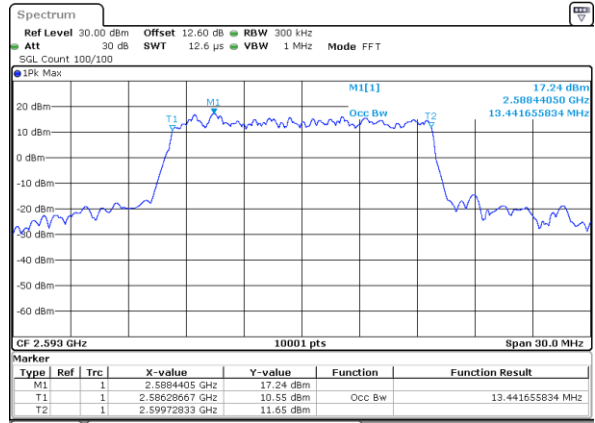
Date: 17_JUL_2024 16:21:03

Middle Channel / 15MHz / QPSK



Date: 17_JUL_2024 16:33:24

Middle Channel / 15MHz / 16QAM

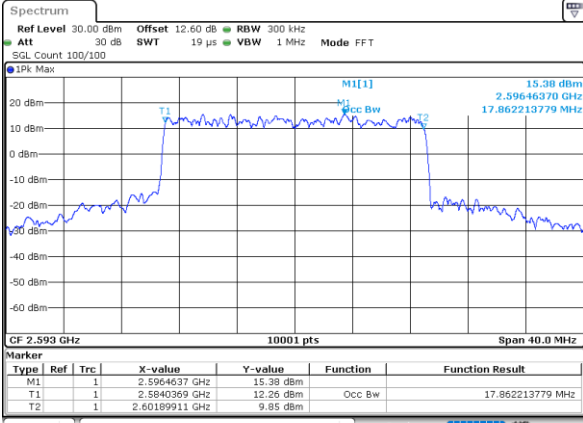


Date: 17_JUL_2024 16:34:01



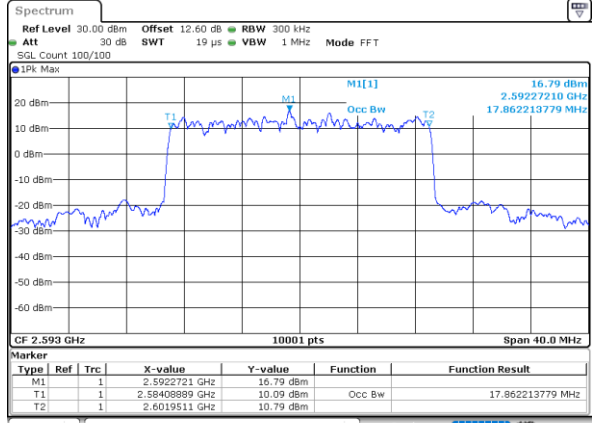
LTE Band 41

Middle Channel / 20MHz / QPSK



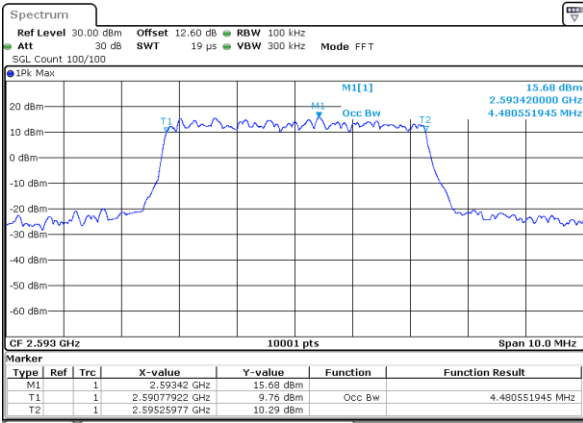
Date: 17_JUL_2024 16:52:41

Middle Channel / 20MHz / 16QAM



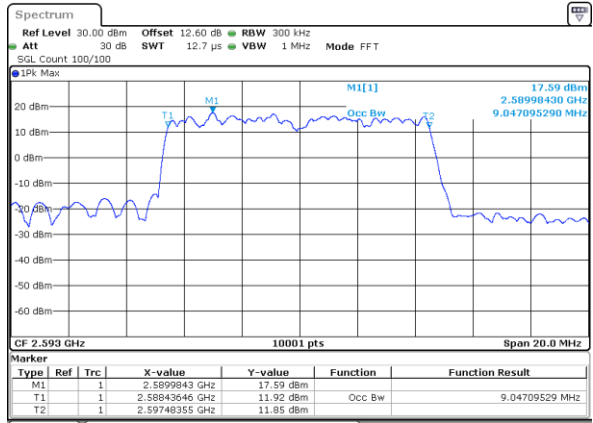
Date: 17_JUL_2024 16:53:47

Middle Channel / 5MHz / 64QAM



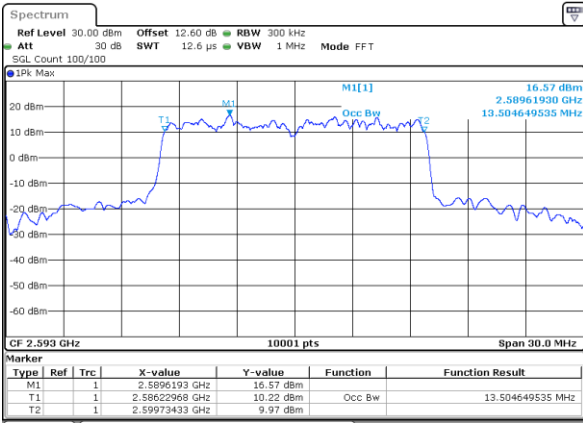
Date: 17_JUL_2024 16:04:33

Middle Channel / 10MHz / 64QAM



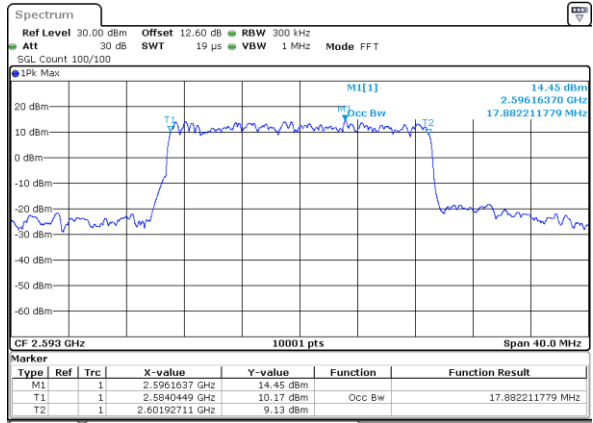
Date: 17_JUL_2024 16:21:40

Middle Channel / 15MHz / 64QAM



Date: 17_JUL_2024 16:34:39

Middle Channel / 20MHz / 64QAM

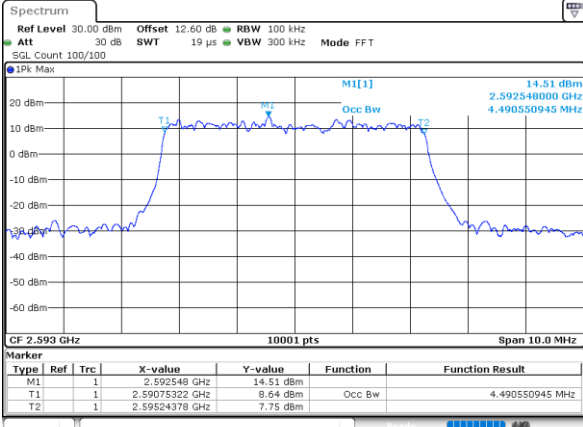


Date: 17_JUL_2024 16:54:38



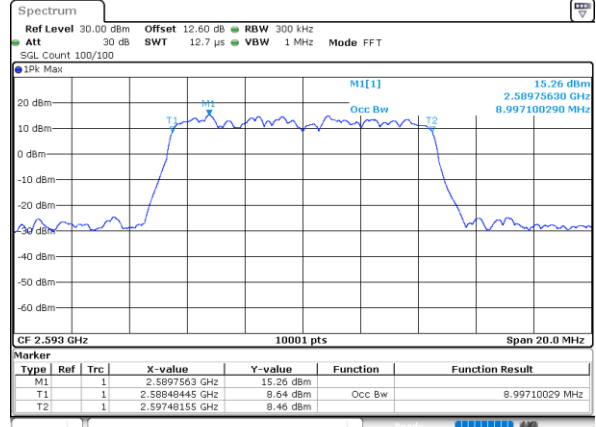
LTE Band 41

Middle Channel / 5MHz / 256QAM



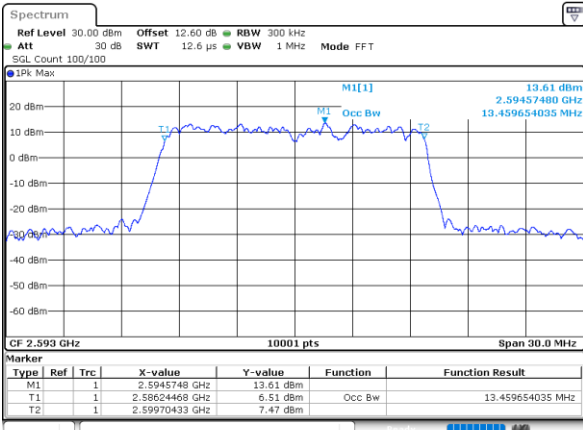
Date: 17_JUL_2024 16:05:11

Middle Channel / 10MHz / 256QAM



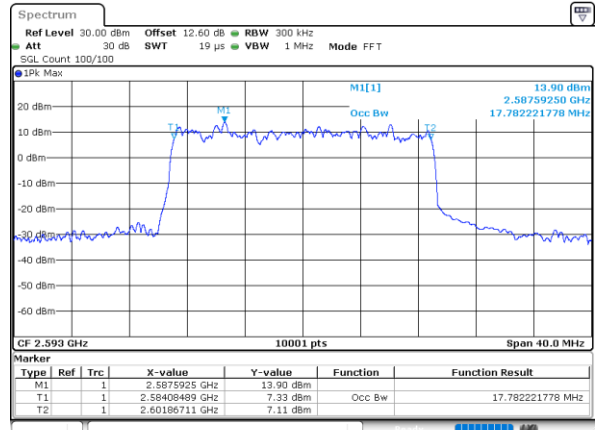
Date: 17_JUL_2024 16:22:18

Middle Channel / 15MHz / 256QAM



Date: 17_JUL_2024 16:35:16

Middle Channel / 20MHz / 256QAM



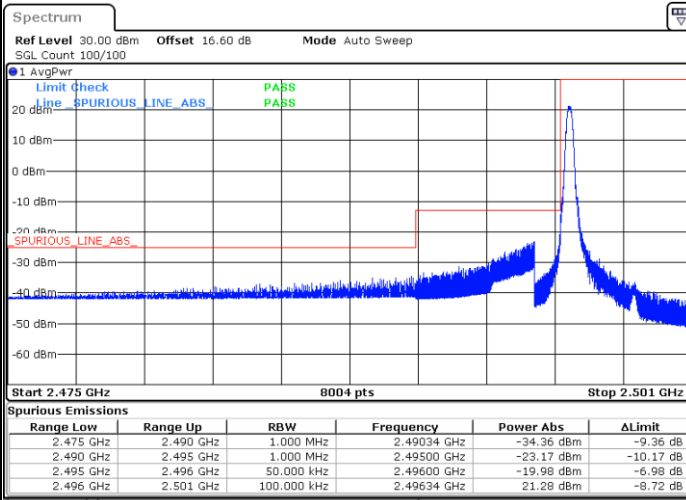
Date: 17_JUL_2024 16:55:30



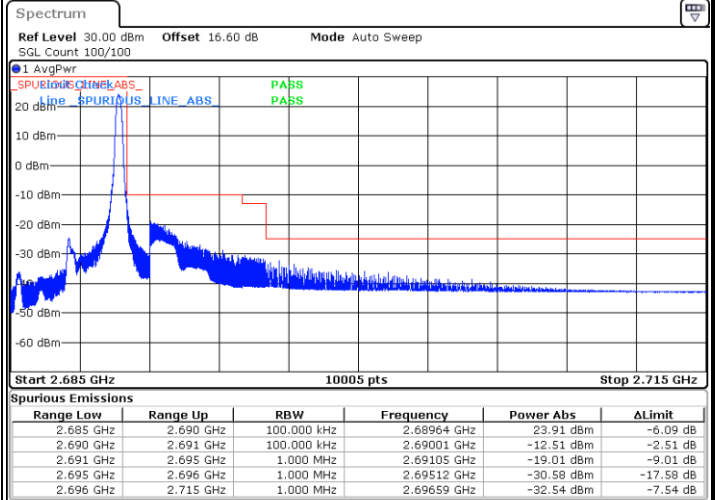
Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

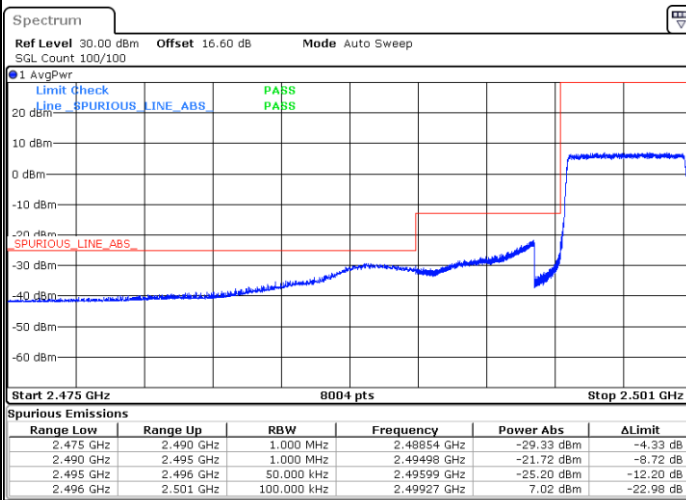
Lowest Band Edge / 1 RB



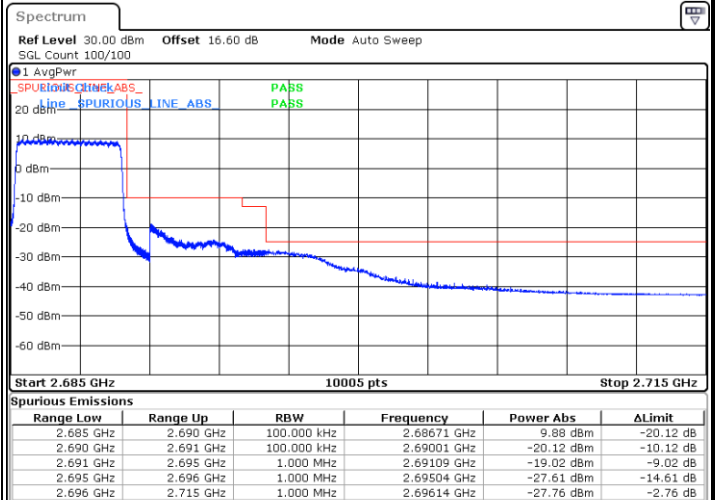
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



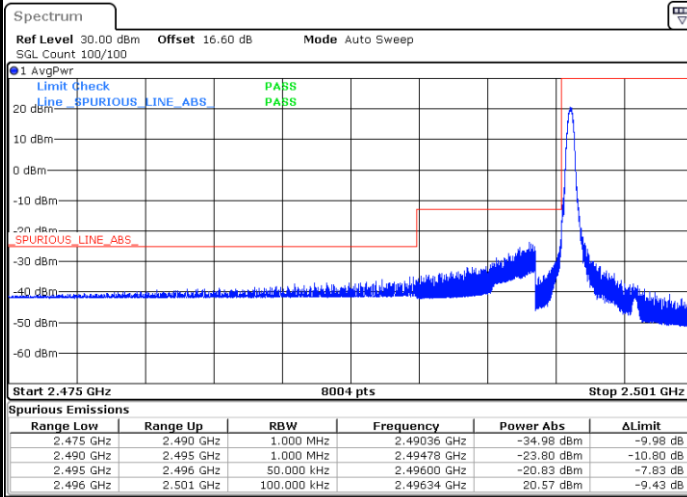
Highest Band Edge / Full RB





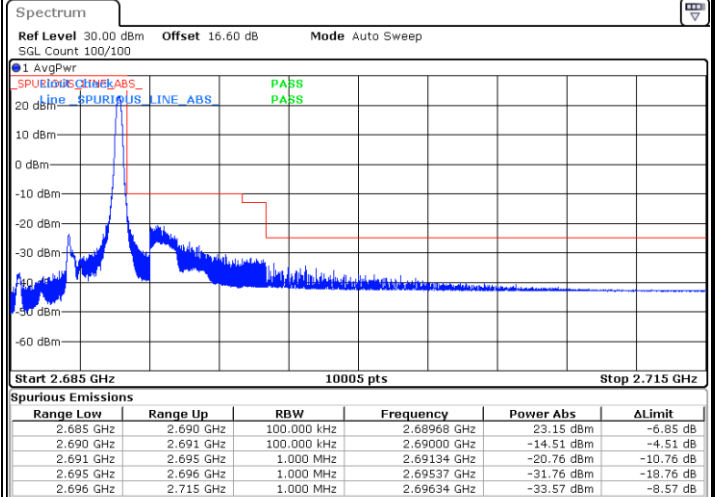
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



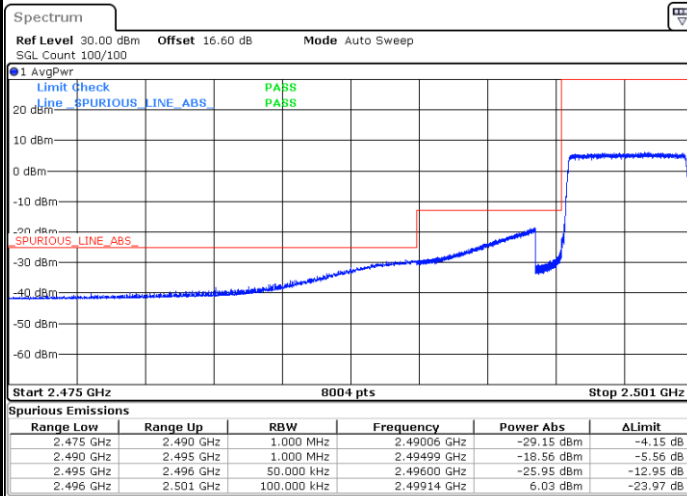
Date: 17.JUL.2024 15:53:22

Highest Band Edge / 1 RB



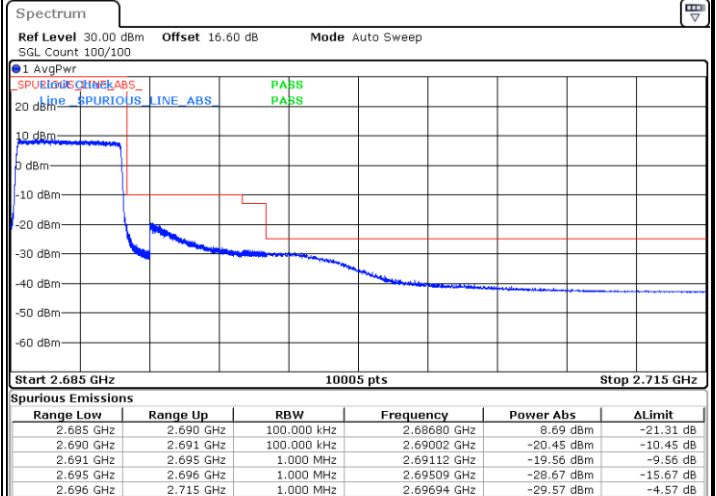
Date: 17.JUL.2024 16:12:08

Lowest Band Edge / Full RB



Date: 17.JUL.2024 15:59:50

Highest Band Edge / Full RB

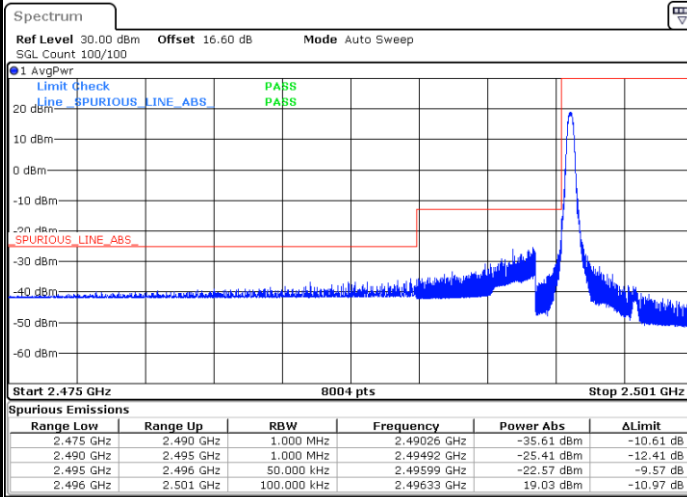


Date: 17.JUL.2024 16:07:37



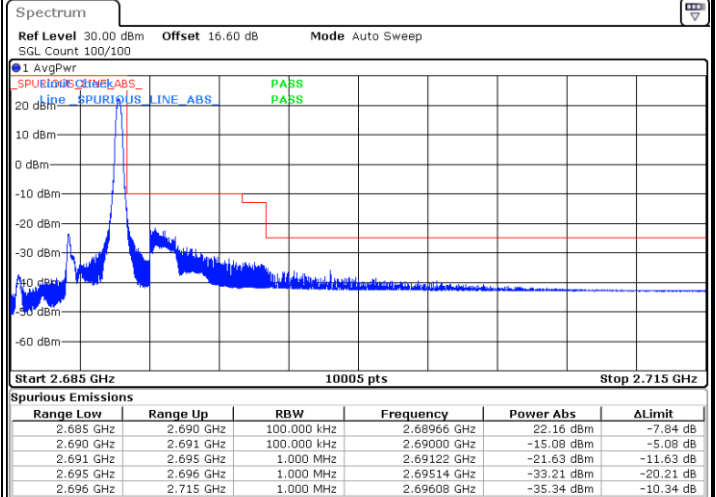
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



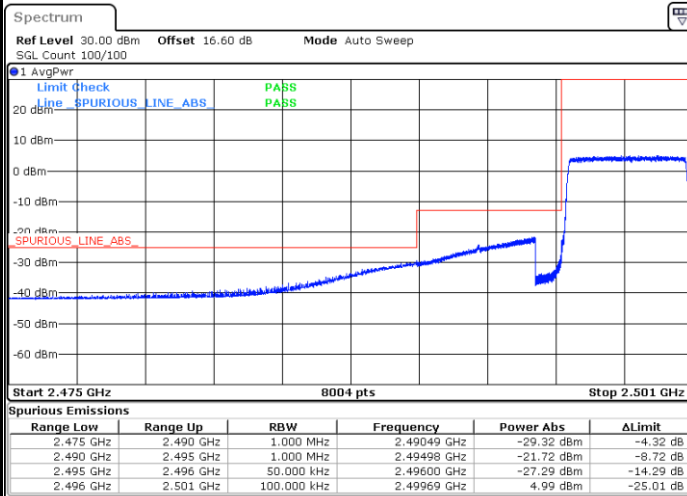
Date: 17.JUL.2024 15:54:16

Highest Band Edge / 1 RB



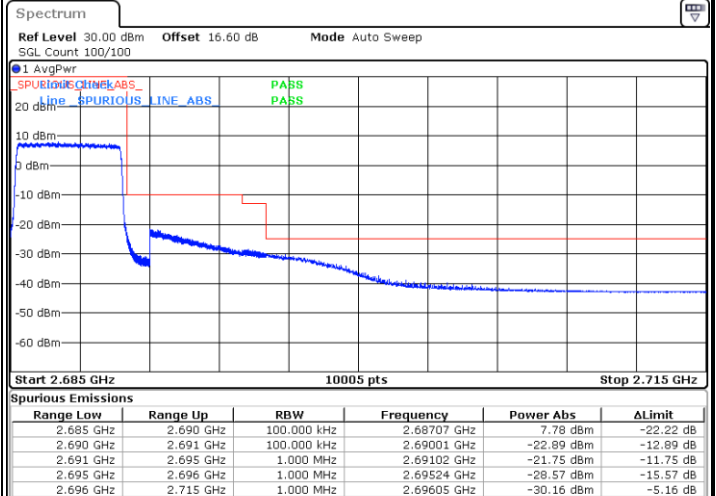
Date: 17.JUL.2024 16:13:15

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:00:44

Highest Band Edge / Full RB

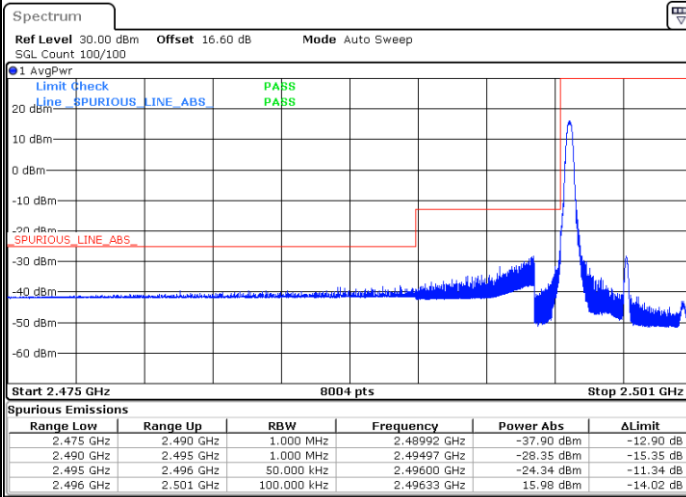


Date: 17.JUL.2024 16:08:44



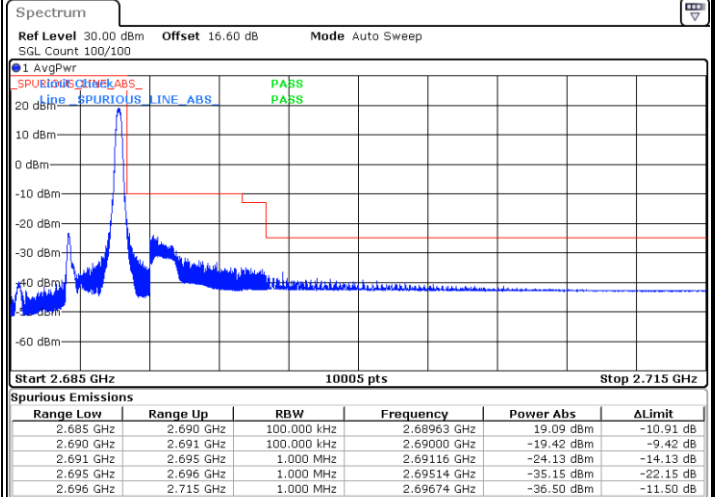
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



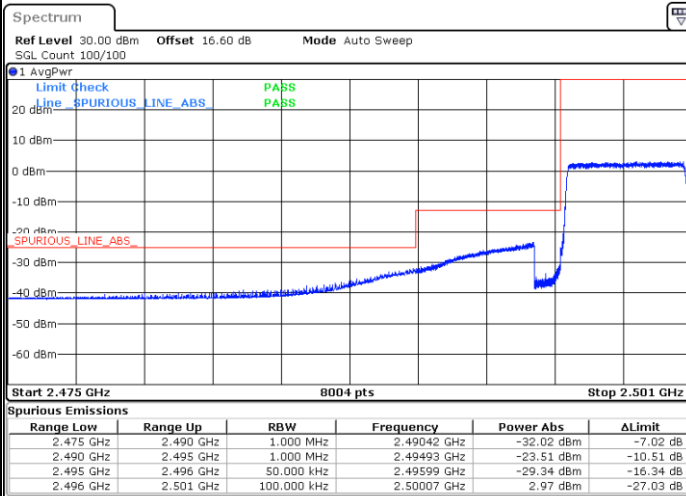
Date: 17.JUL.2024 15:55:10

Highest Band Edge / 1 RB



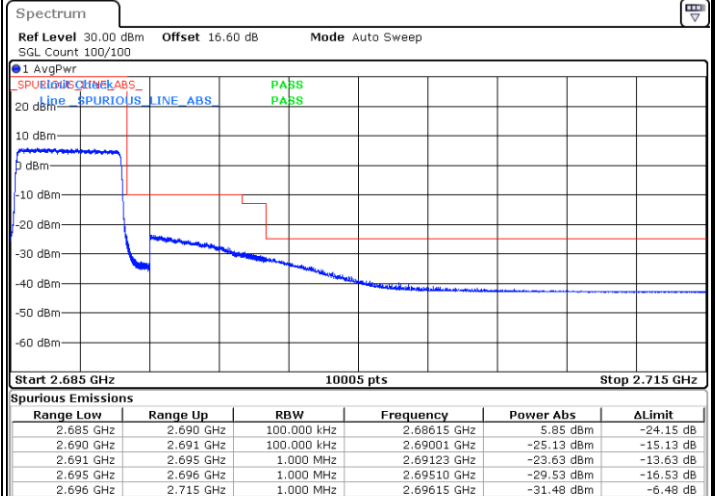
Date: 17.JUL.2024 16:14:22

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:01:38

Highest Band Edge / Full RB

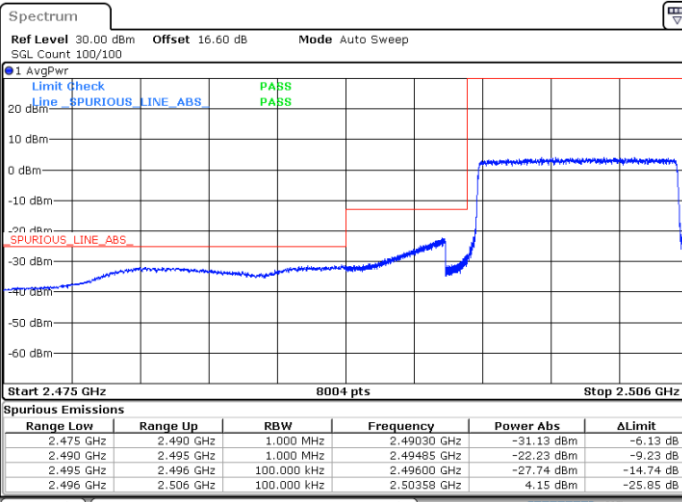


Date: 17.JUL.2024 16:09:51



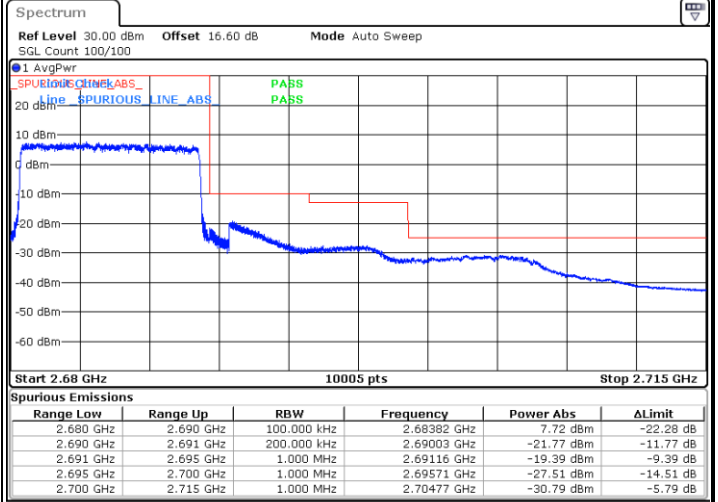
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:17:17

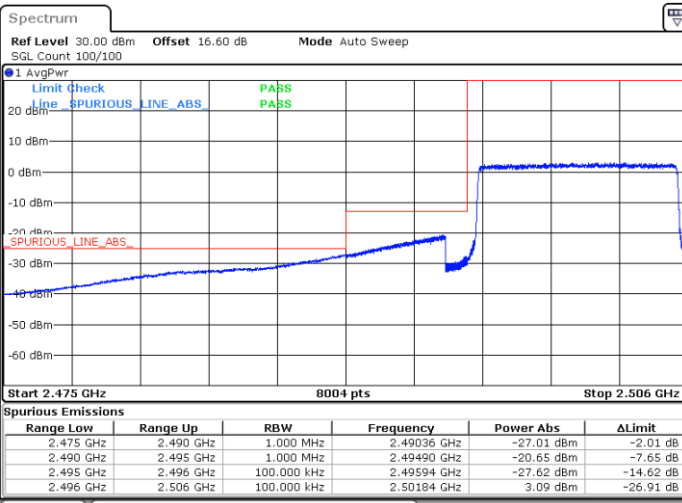
Highest Band Edge / Full RB



Date: 17.JUL.2024 16:23:24

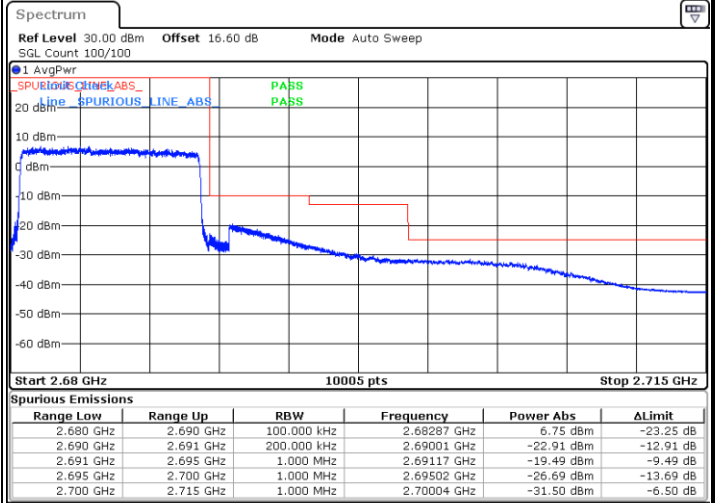
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:18:11

Highest Band Edge / Full RB

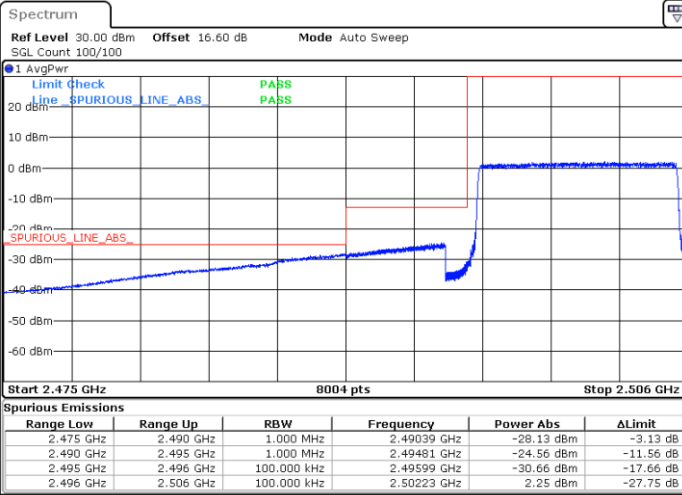


Date: 17.JUL.2024 16:26:51



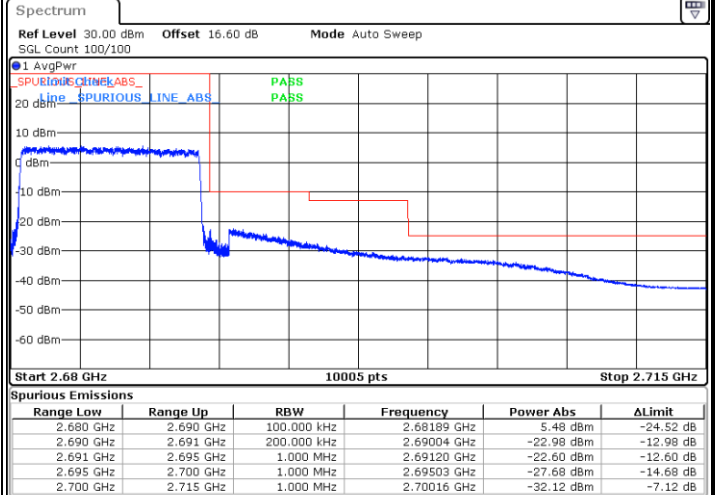
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:19:06

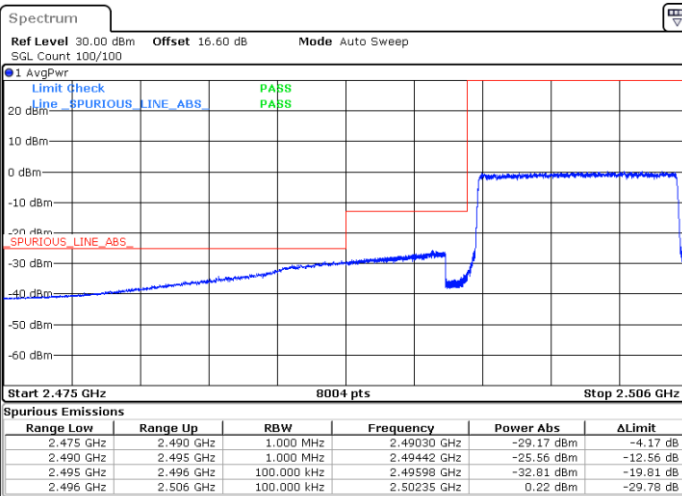
Highest Band Edge / Full RB



Date: 17.JUL.2024 16:27:45

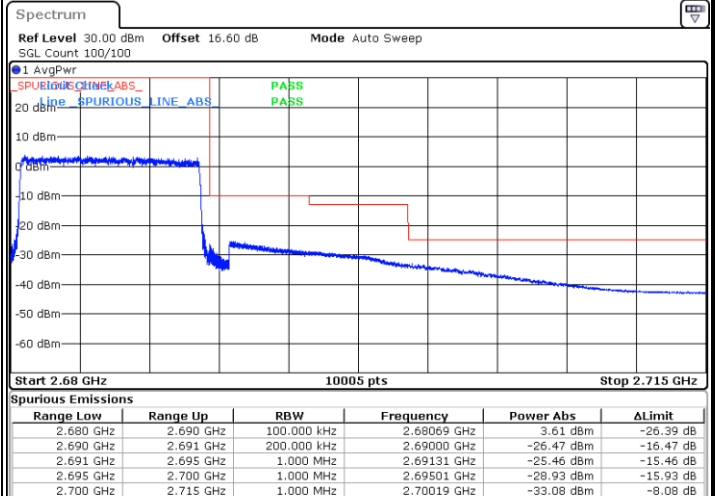
LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:20:00

Highest Band Edge / Full RB

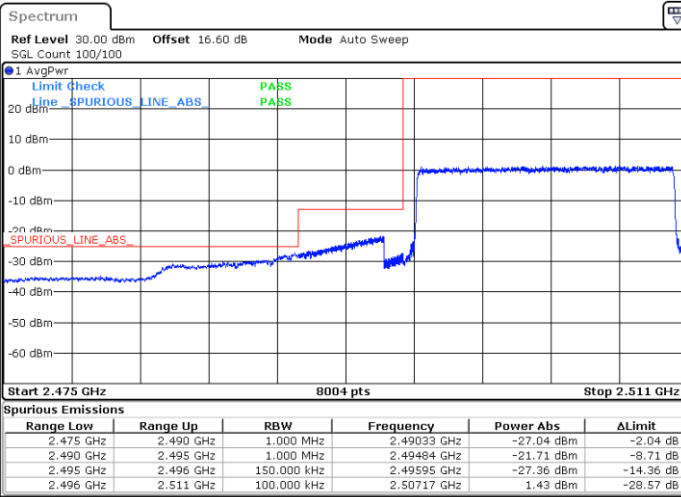


Date: 17.JUL.2024 16:28:39



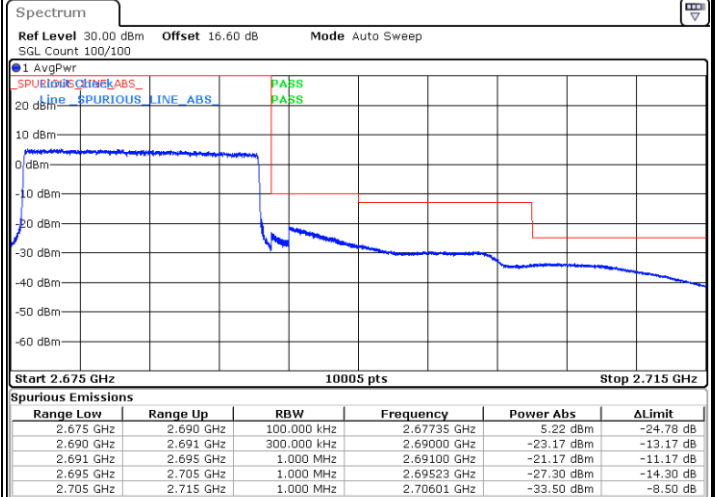
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:30:16

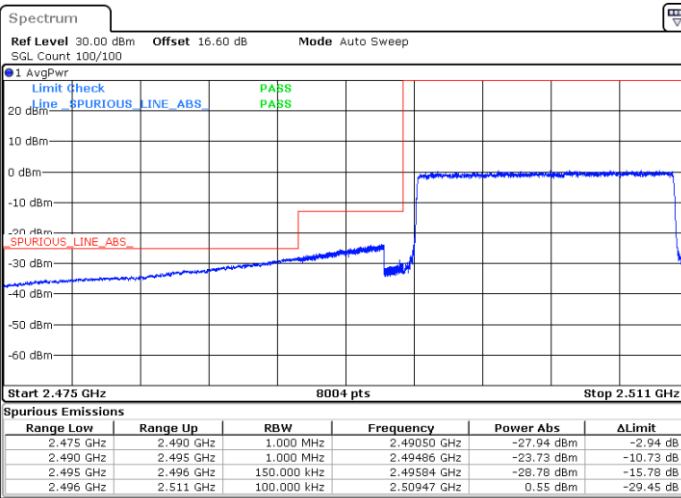
Highest Band Edge / Full RB



Date: 17.JUL.2024 16:36:23

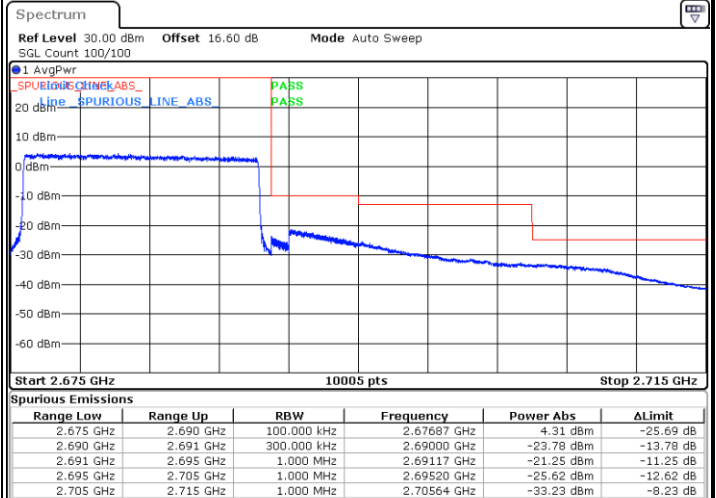
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:31:10

Highest Band Edge / Full RB

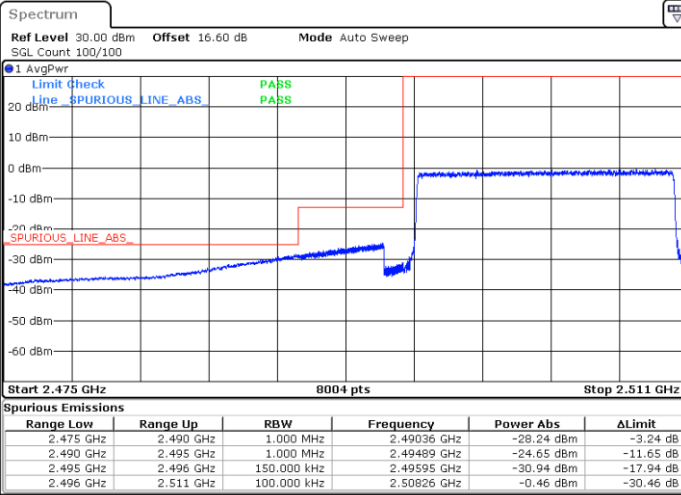


Date: 17.JUL.2024 16:37:17



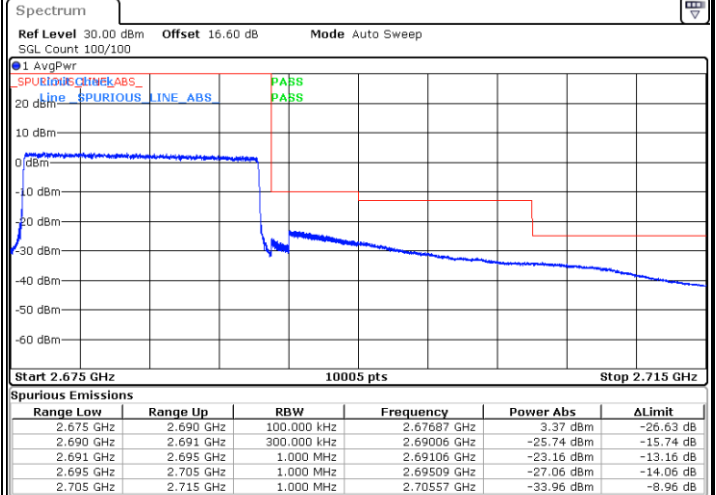
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:32:04

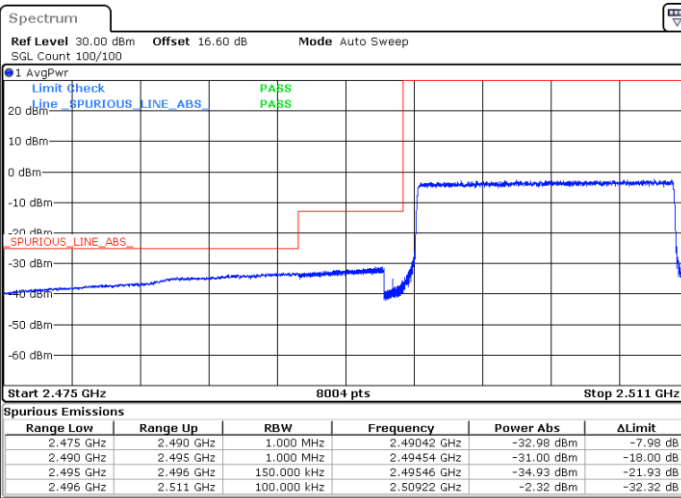
Highest Band Edge / Full RB



Date: 17.JUL.2024 16:38:13

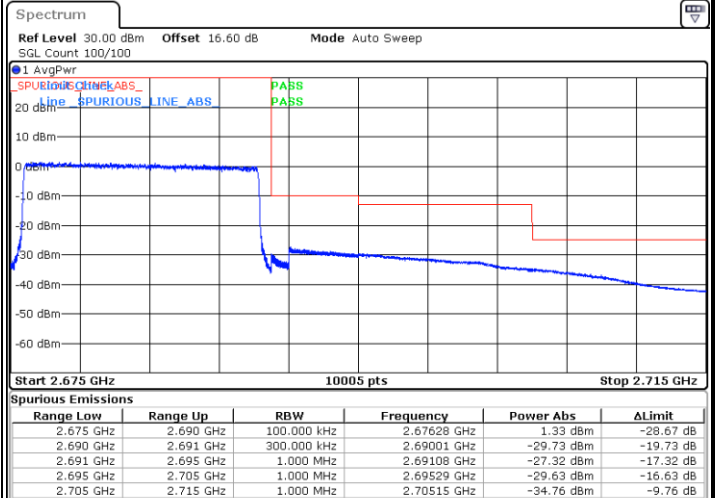
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:32:58

Highest Band Edge / Full RB

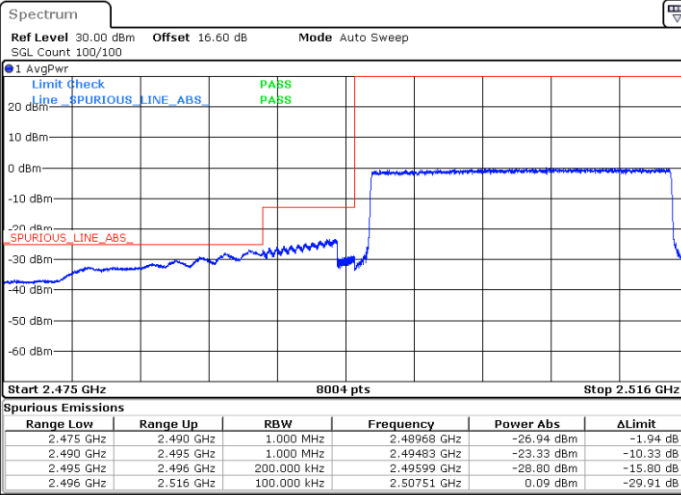


Date: 17.JUL.2024 16:47:56



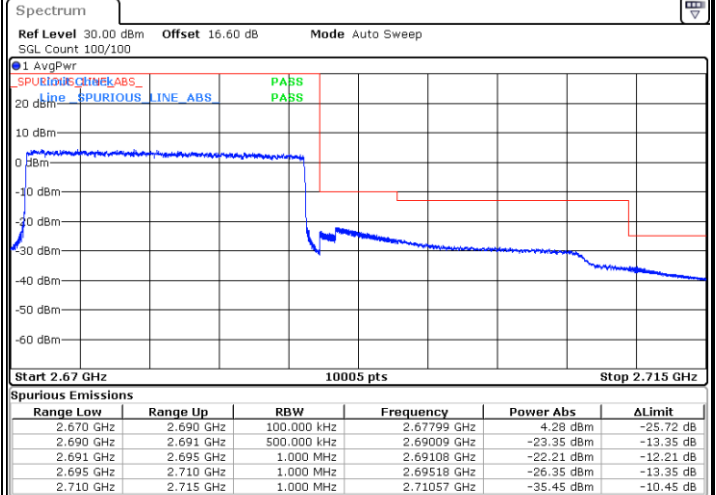
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:49:33

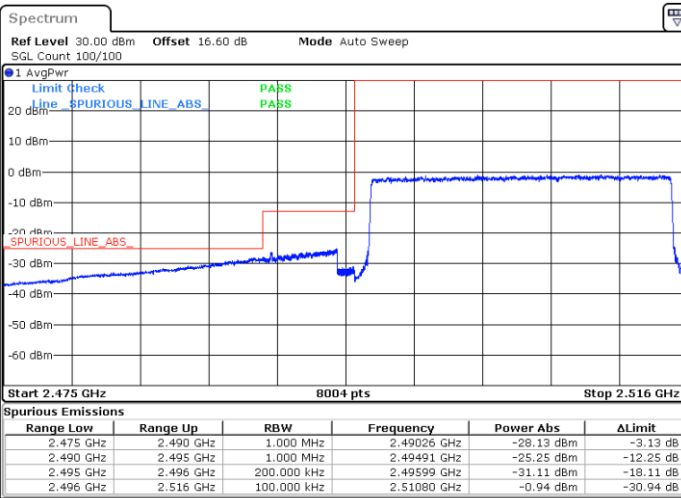
Highest Band Edge / Full RB



Date: 17.JUL.2024 16:56:36

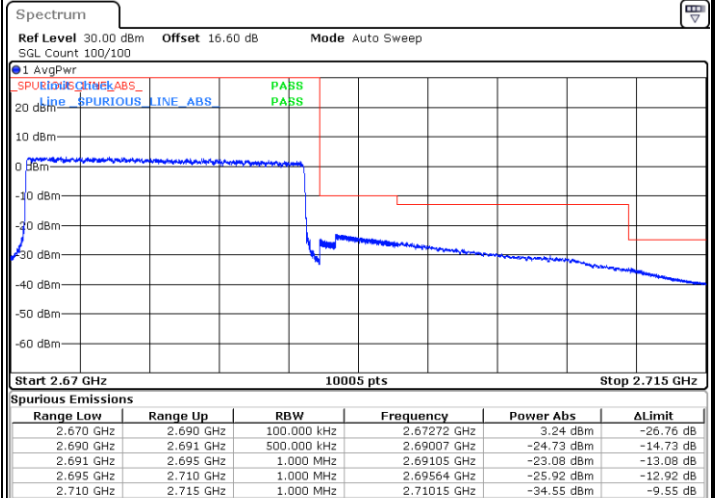
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:50:27

Highest Band Edge / Full RB

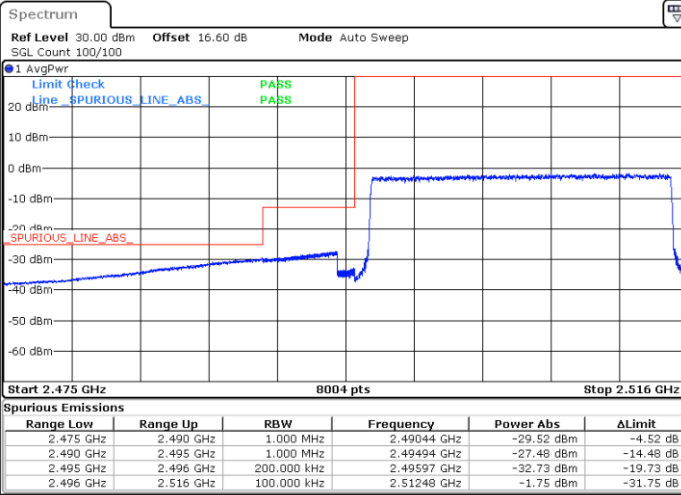


Date: 17.JUL.2024 16:57:30



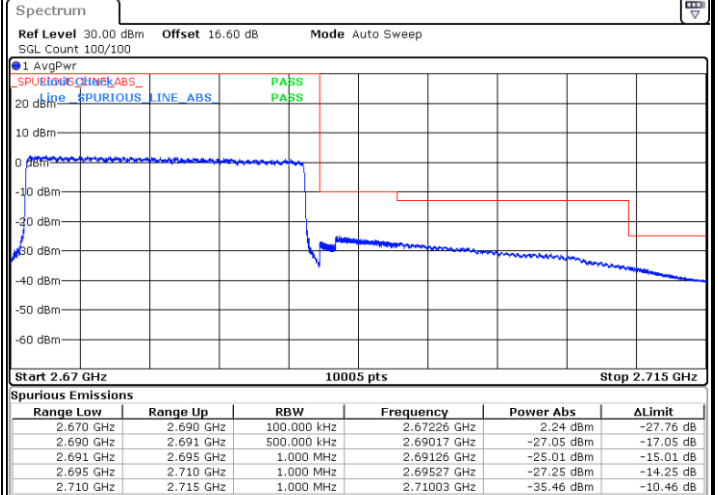
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:51:22

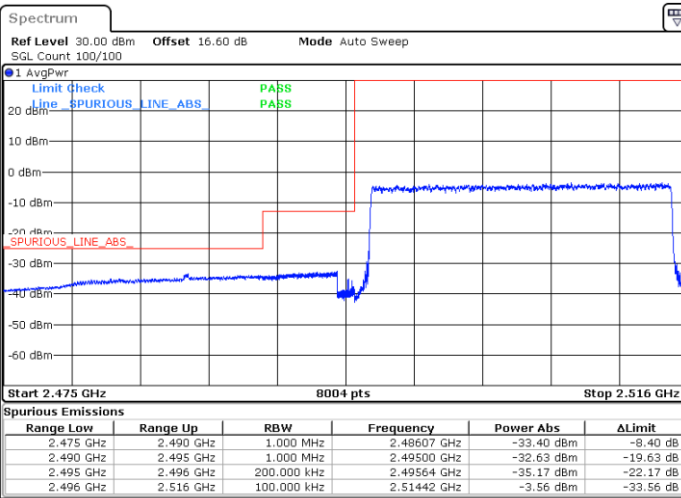
Highest Band Edge / Full RB



Date: 17.JUL.2024 16:58:24

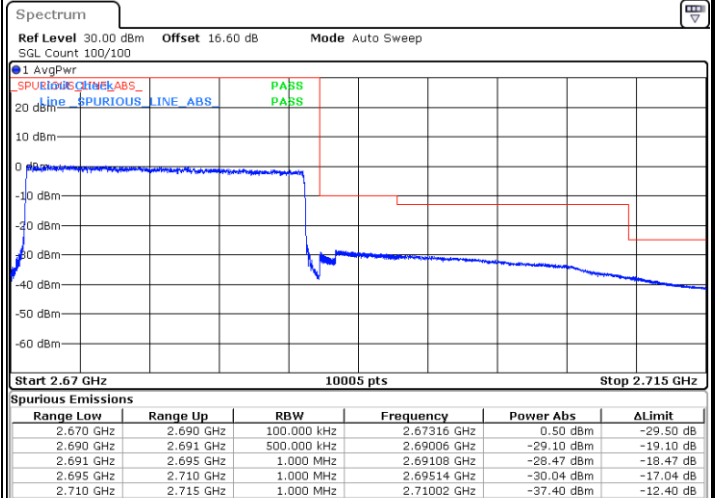
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 17.JUL.2024 16:52:16

Highest Band Edge / Full RB



Date: 17.JUL.2024 16:59:19

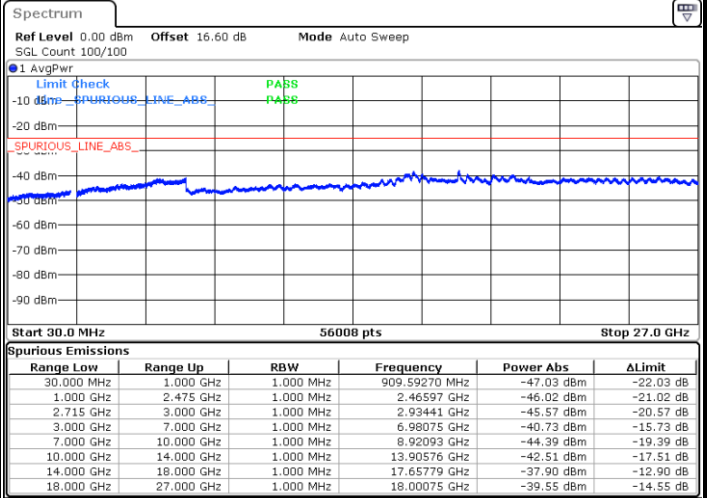
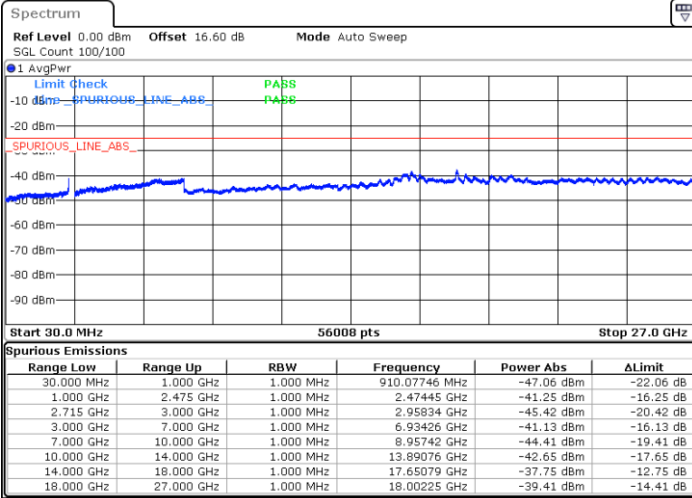


Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

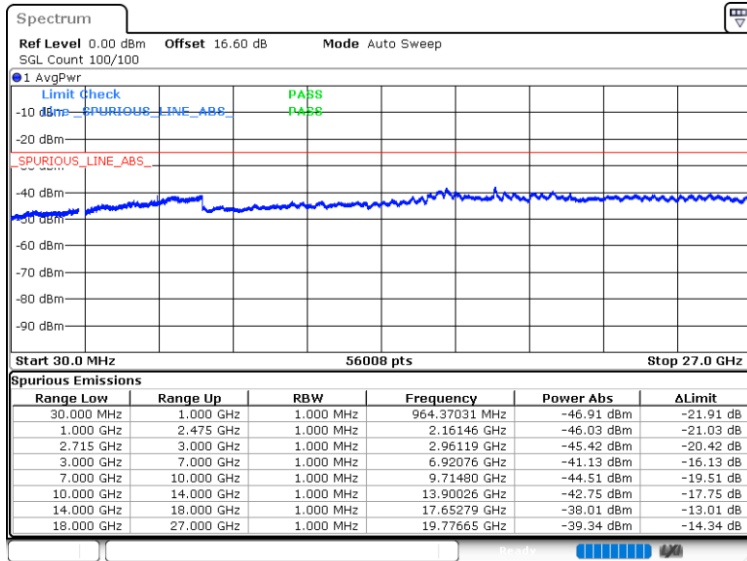
Middle Channel / QPSK



Date: 17.JUL.2024 15:56:27

Date: 17.JUL.2024 16:02:52

Highest Channel / QPSK



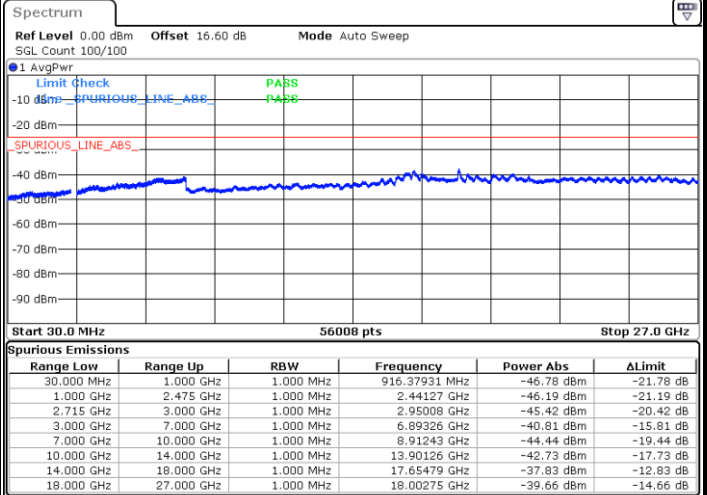
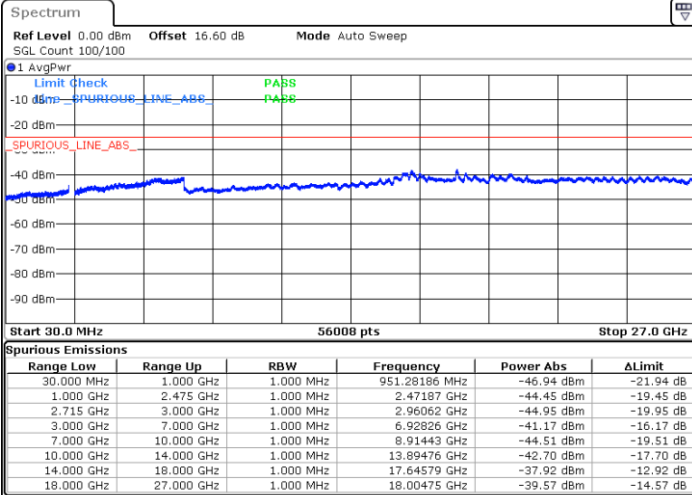
Date: 17.JUL.2024 16:15:39



LTE Band 41 / 10MHz

Lowest Channel / QPSK

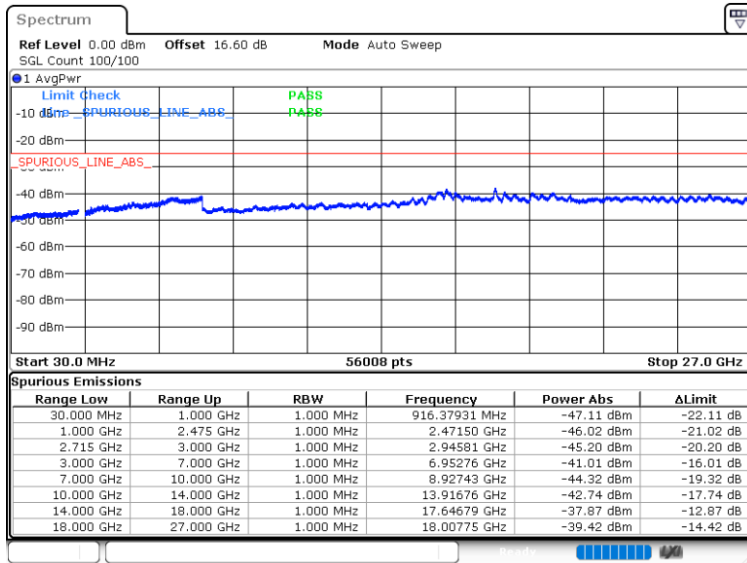
Middle Channel / QPSK



Date: 17.JUL.2024 17:01:15

Date: 17.JUL.2024 17:02:30

Highest Channel / QPSK



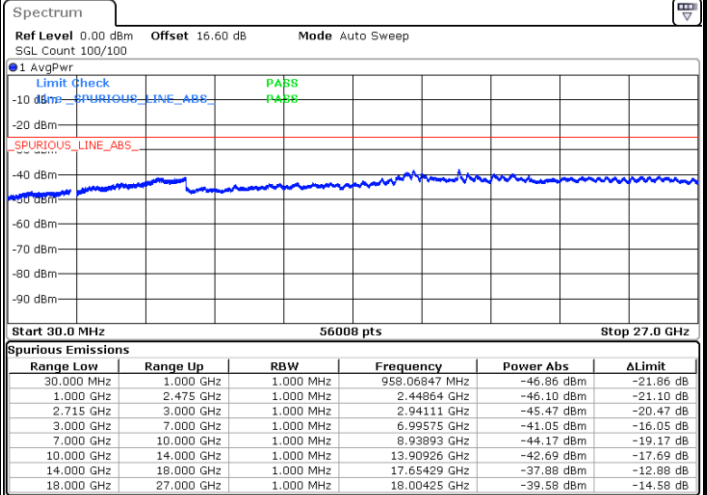
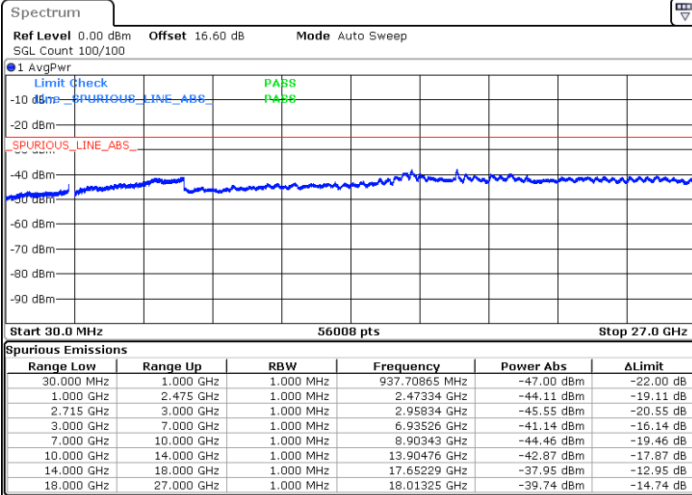
Date: 17.JUL.2024 17:03:45



LTE Band 41 / 15MHz

Lowest Channel / QPSK

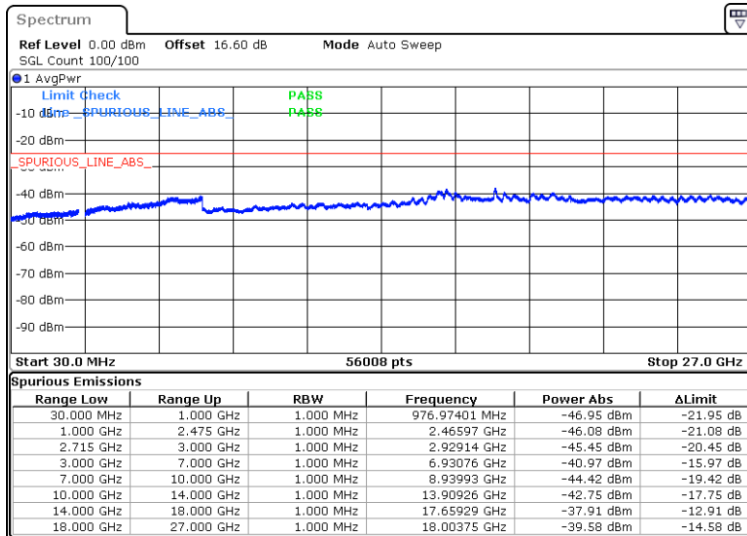
Middle Channel / QPSK



Date: 17.JUL.2024 17:05:43

Date: 17.JUL.2024 17:06:57

Highest Channel / QPSK



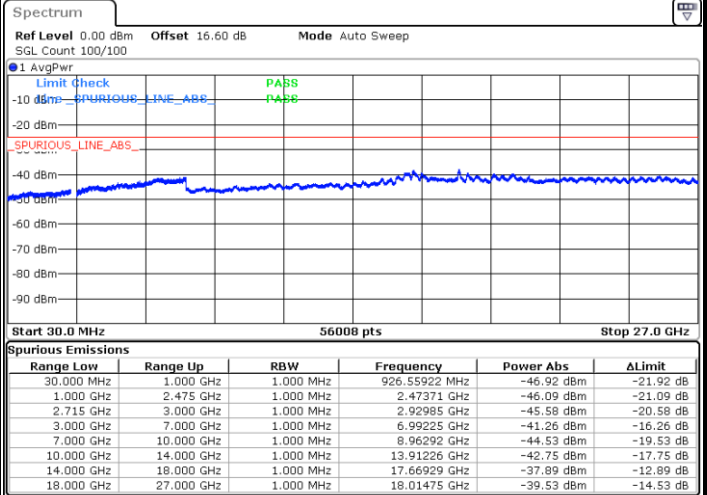
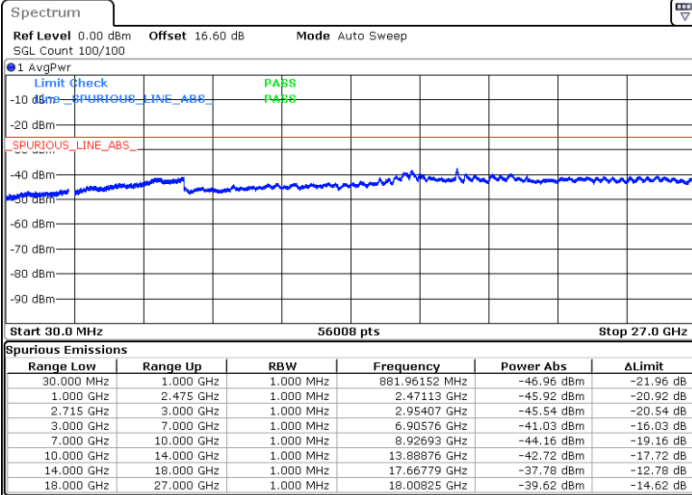
Date: 17.JUL.2024 17:08:12



LTE Band 41 / 20MHz

Lowest Channel / QPSK

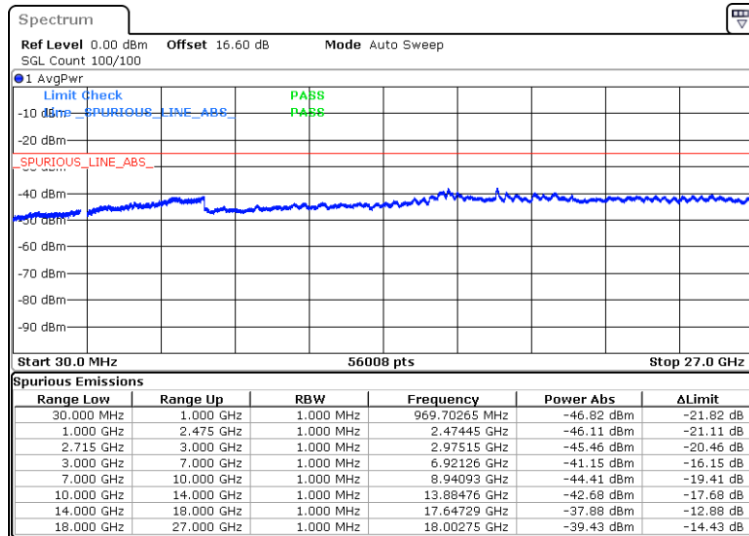
Middle Channel / QPSK



Date: 17.JUL.2024 17:10:10

Date: 17.JUL.2024 17:11:25

Highest Channel / QPSK



Date: 17.JUL.2024 17:12:39



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	0.0019	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.465 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	24.72	25.07	29.67	25.22	30.56
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.96	24.97	29.91	35.03	39.79

Mode	LTE Band 41C : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.72	24.97	29.91	25.12	30.39
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.75	25.07	30.03	34.96	39.79

Mode	LTE Band 41C : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.62	25.07	29.78	25.22	30.50
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.82	24.92	30.08	34.75	39.79

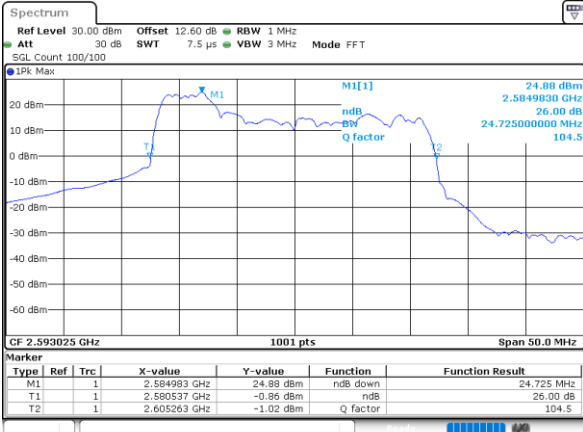
Mode	LTE Band 41C : 26dB BW(MHz)				
256QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.62	25.12	29.91	25.12	30.86
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.82	24.97	29.73	34.89	39.88



LTE Band 41C

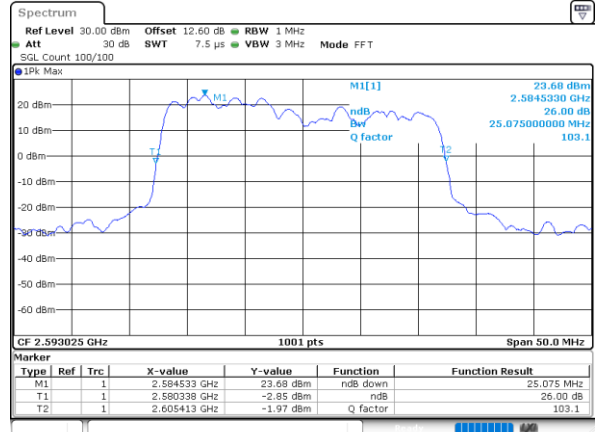
QPSK

Middle Channel / 5MHz+20MHz



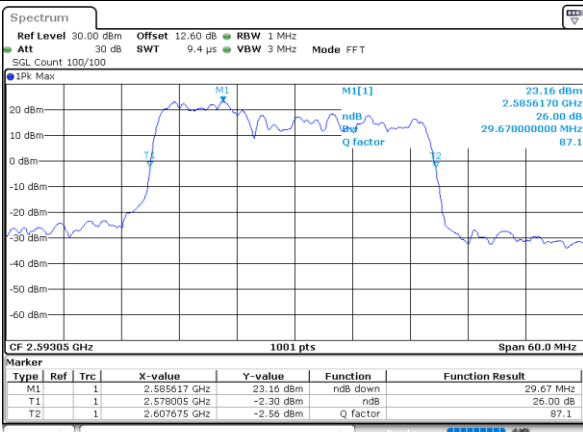
Date: 15_JUL_2024 21:16:36

Middle Channel / 10MHz+15MHz



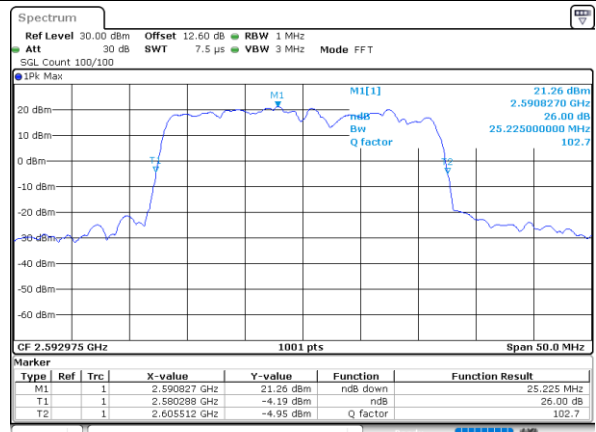
Date: 15_JUL_2024 21:24:24

Middle Channel / 10MHz+20MHz



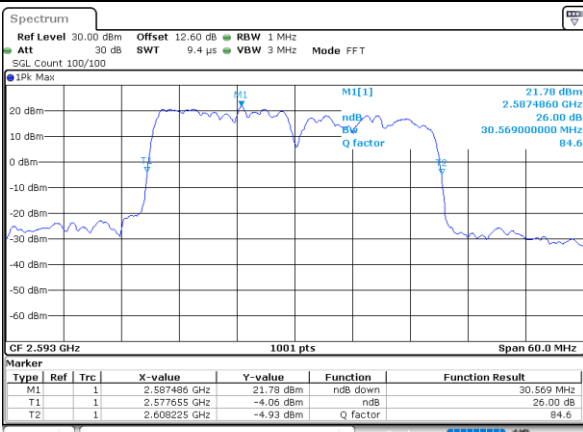
Date: 15_JUL_2024 21:32:11

Middle Channel / 15MHz+10MHz



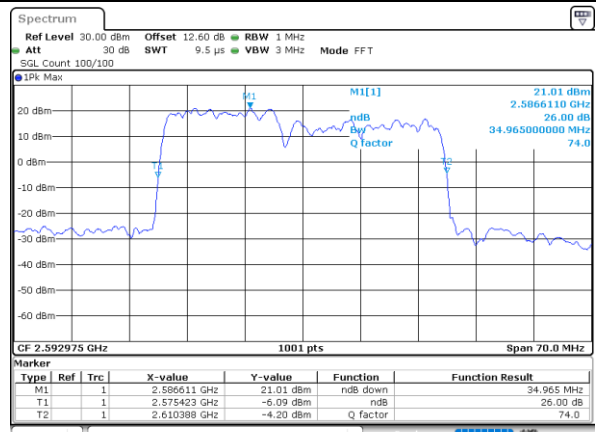
Date: 15_JUL_2024 21:28:17

Middle Channel / 15MHz+15MHz



Date: 15_JUL_2024 21:40:33

Middle Channel / 15MHz+20MHz



Date: 15_JUL_2024 21:44:22