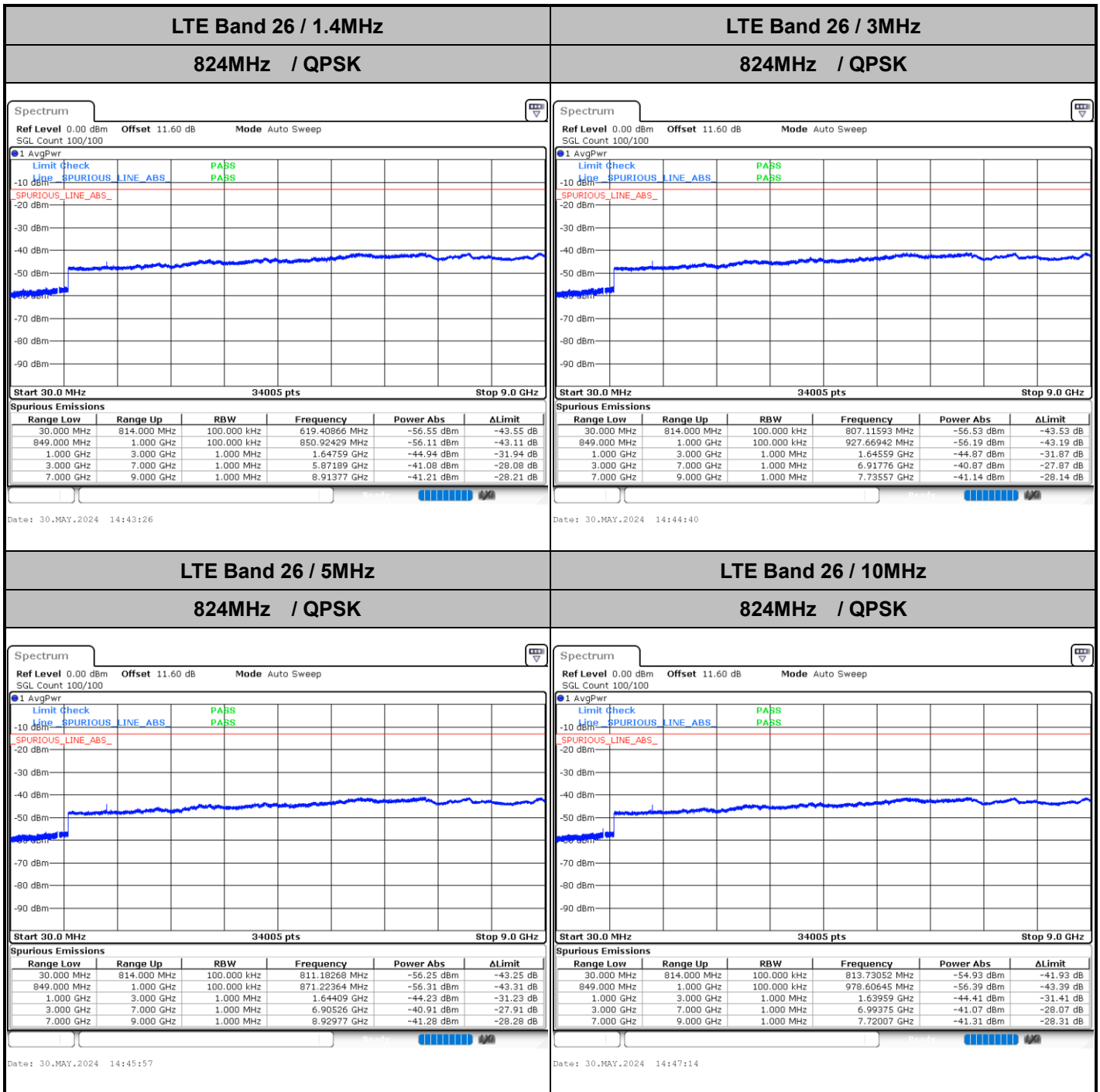
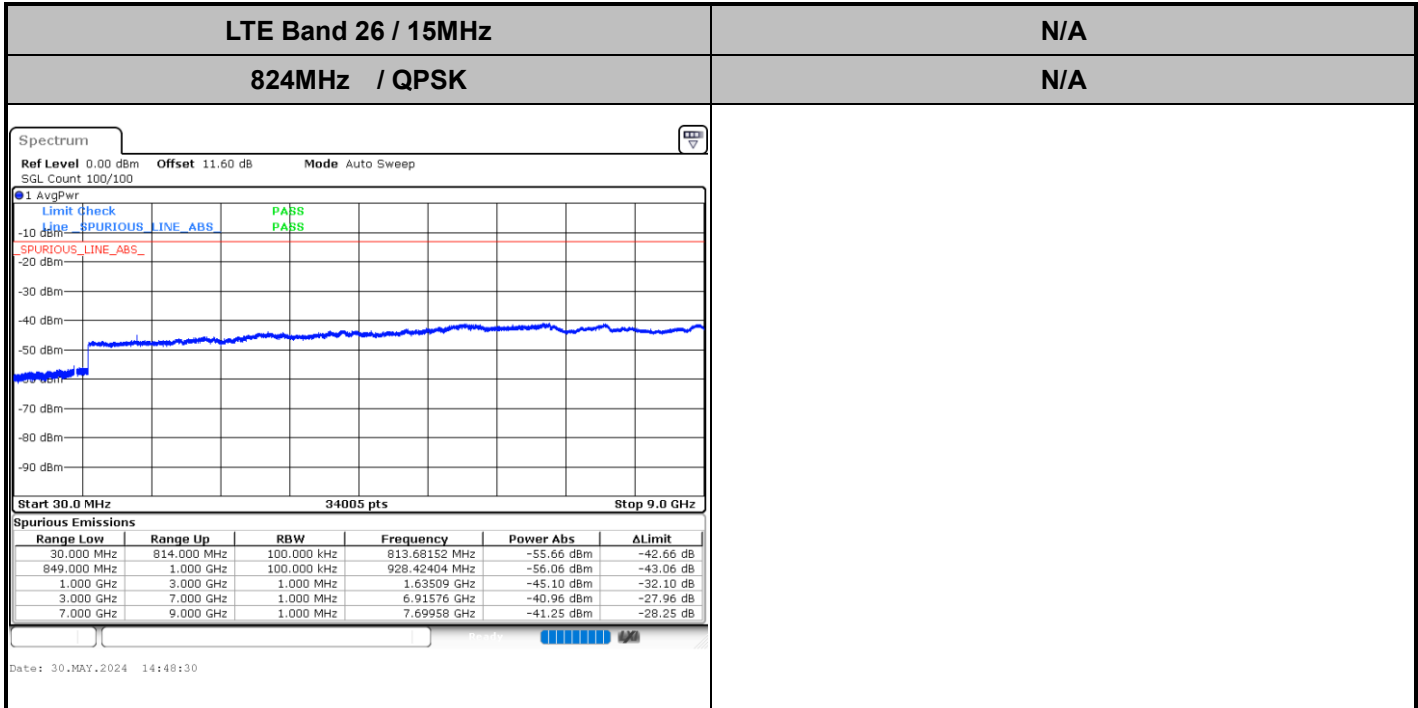




Conducted Spurious Emission







Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / 824MHz	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0135	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0101	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0180	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0049	
20	Maximum Voltage	0.0093	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

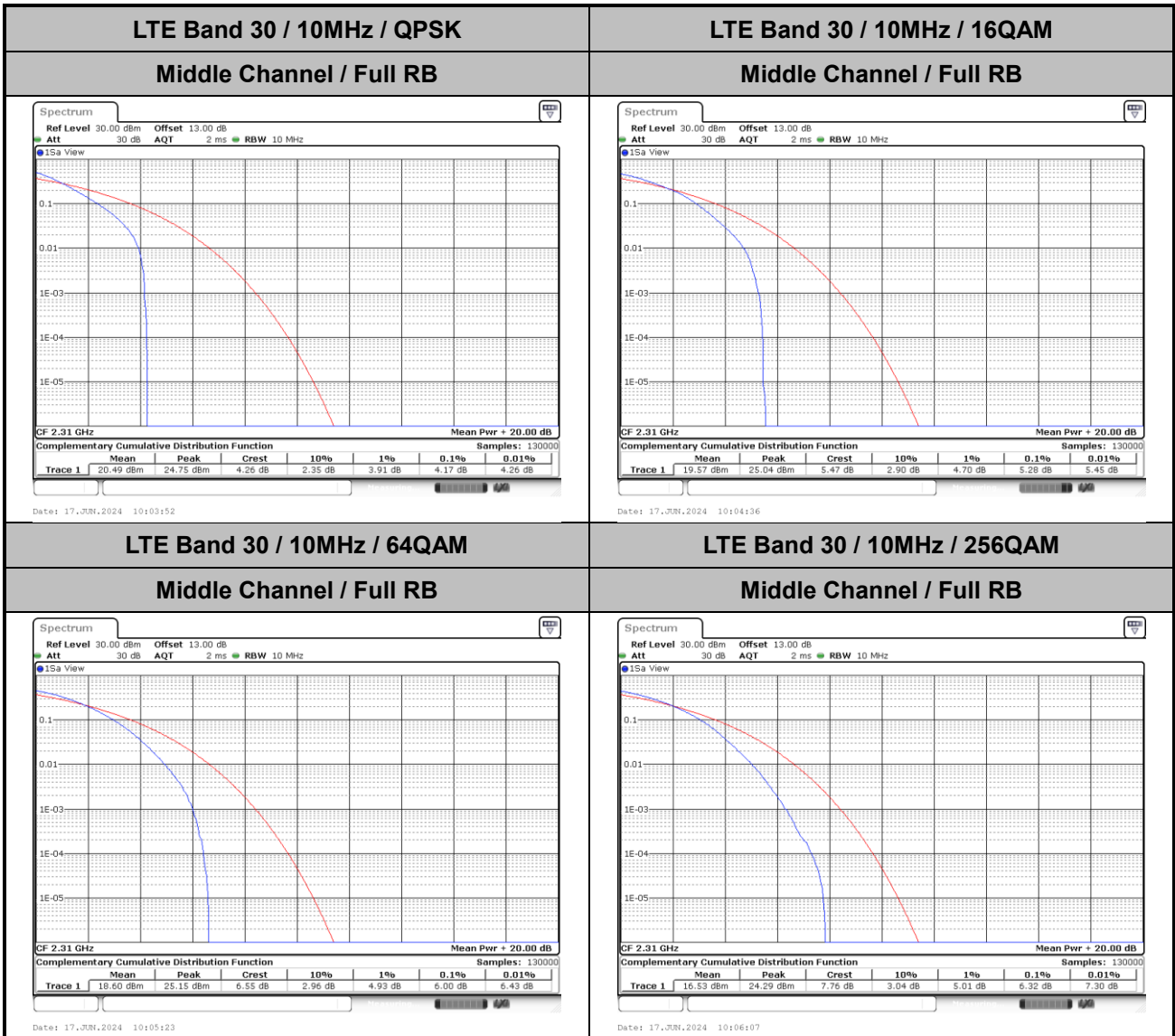
Note: Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.465 V.



LTE Band 30

Peak-to-Average Ratio

Mode	LTE Band 30 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.17	5.28	6.00	6.32	PASS





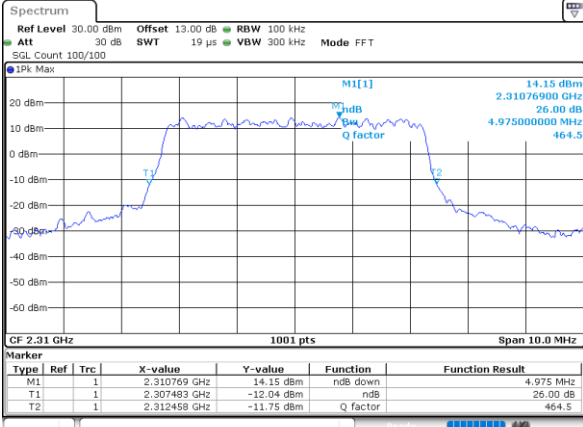
26dB Bandwidth

Mode	LTE Band 30 : 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	4.98	10.05	9.92	-	-	-	-
Mode	LTE Band 30 : 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	-	-	-	-	5.03	5.04	10.13	9.76	-	-	-	-



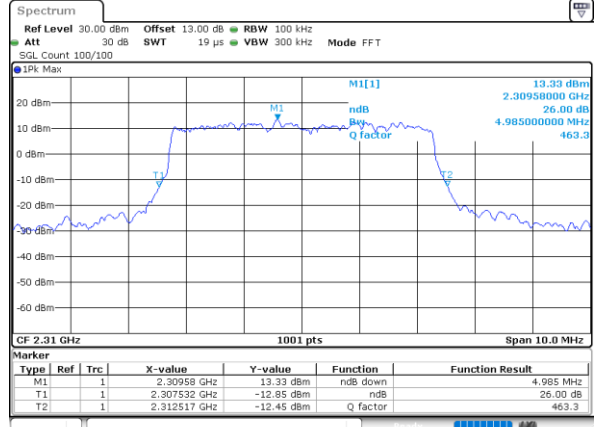
LTE Band 30

Middle Channel / 5MHz / QPSK



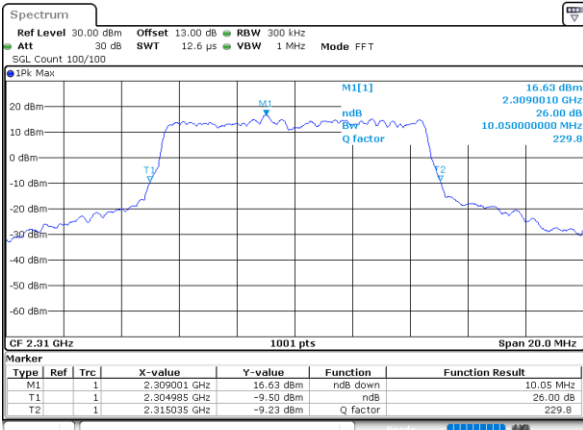
Date: 17_JUN.2024 09:36:49

Middle Channel / 5MHz / 16QAM



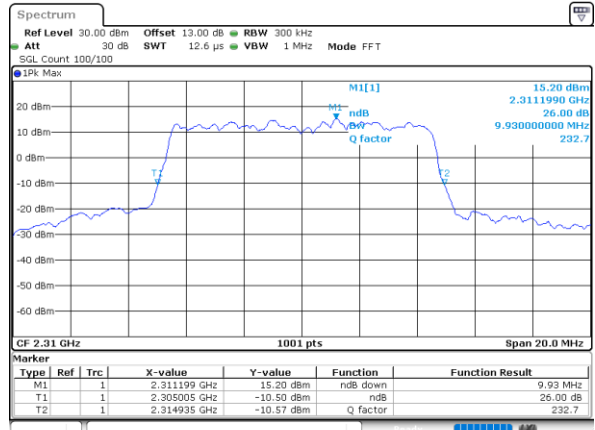
Date: 17_JUN.2024 09:37:29

Middle Channel / 10MHz / QPSK



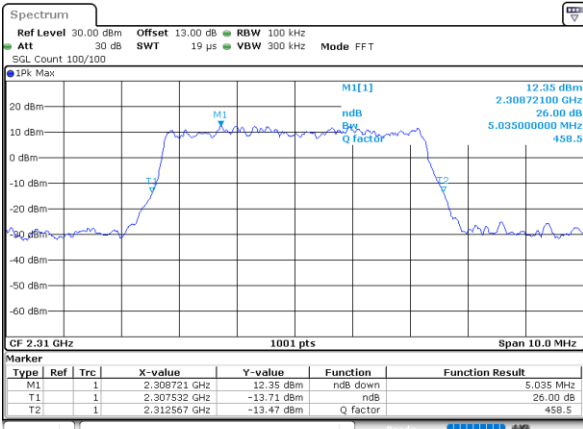
Date: 17_JUN.2024 10:01:06

Middle Channel / 10MHz / 16QAM



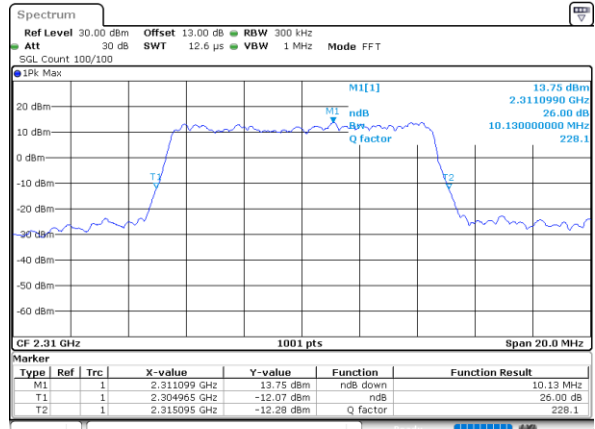
Date: 17_JUN.2024 10:01:46

Middle Channel / 5MHz / 64QAM



Date: 17_JUN.2024 09:38:09

Middle Channel / 10MHz / 64QAM



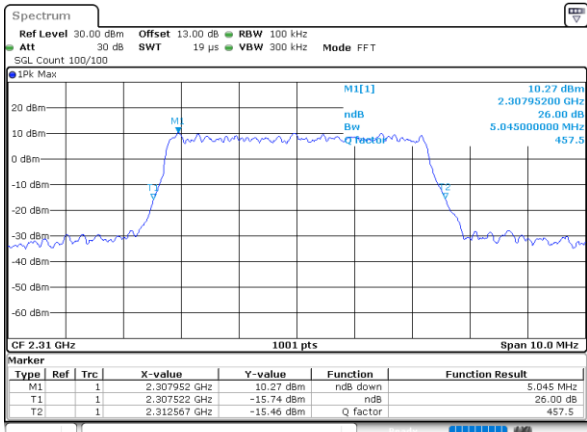
Date: 17_JUN.2024 10:02:26



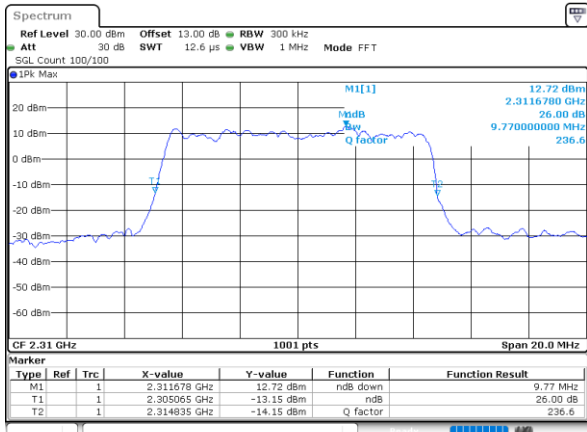
LTE Band 30

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 17_JUN.2024 09:38:53



Date: 17_JUN.2024 10:03:10



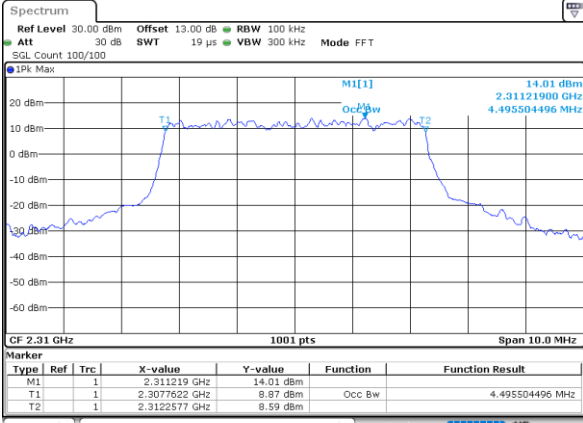
Occupied Bandwidth

Mode	LTE Band 30 : 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	4.48	9.05	9.01	-	-	-	-
Mode	LTE Band 30 : 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	-	-	-	-	4.49	4.49	9.03	9.05	-	-	-	-



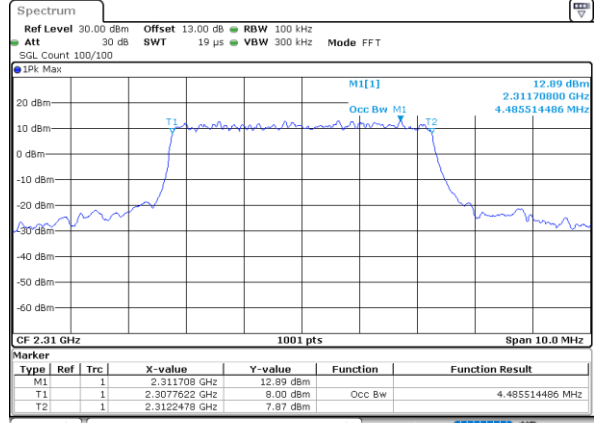
LTE Band 30

Middle Channel / 5MHz / QPSK



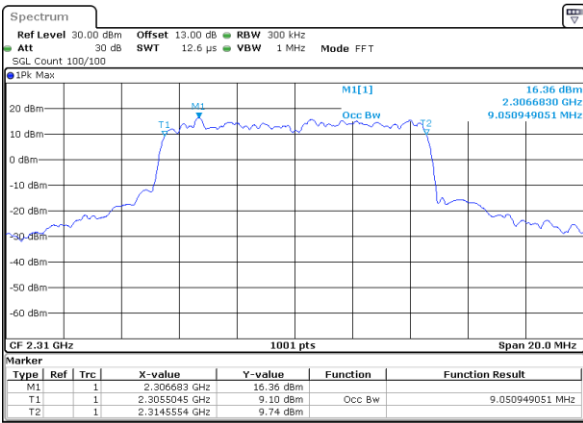
Date: 17_JUN.2024 09:33:53

Middle Channel / 5MHz / 16QAM



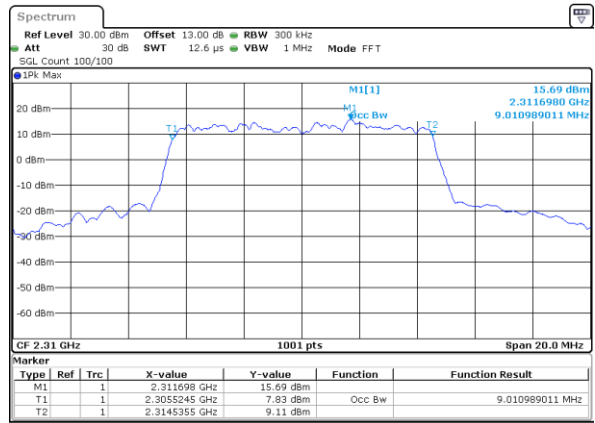
Date: 17_JUN.2024 09:34:39

Middle Channel / 10MHz / QPSK



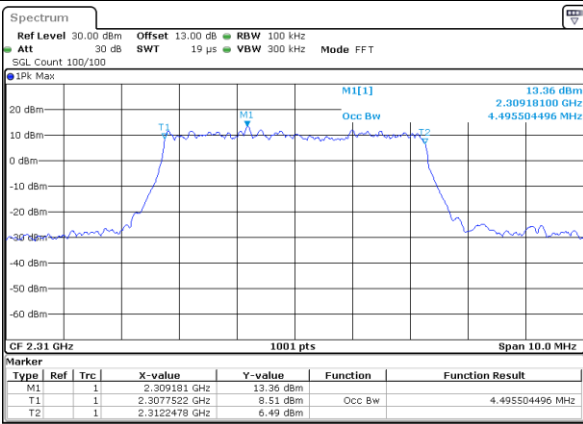
Date: 17_JUN.2024 09:57:54

Middle Channel / 10MHz / 16QAM



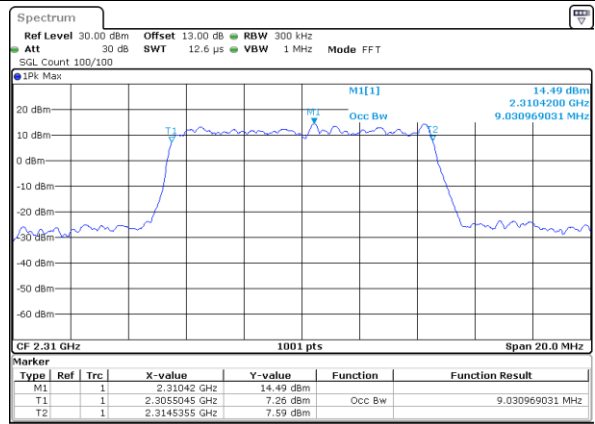
Date: 17_JUN.2024 09:58:51

Middle Channel / 5MHz / 64QAM



Date: 17_JUN.2024 09:35:25

Middle Channel / 10MHz / 64QAM



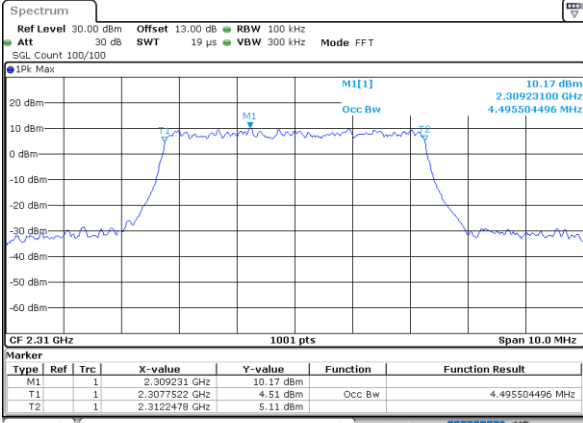
Date: 17_JUN.2024 09:59:42



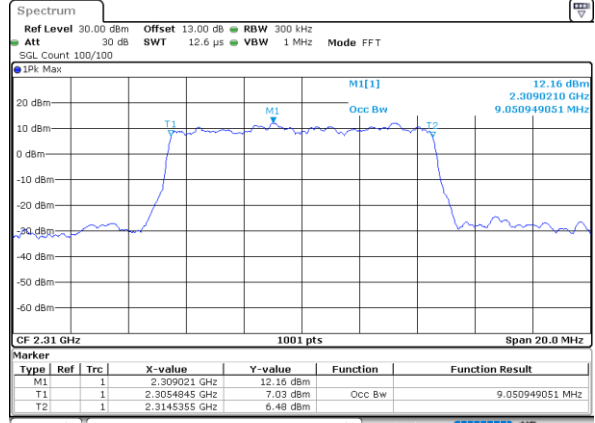
LTE Band 30

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 17 JUN 2024 09:36:08



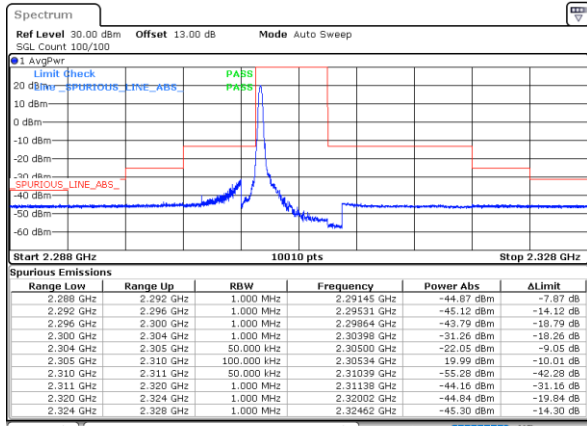
Date: 17 JUN 2024 10:00:25



Conducted Band Edge

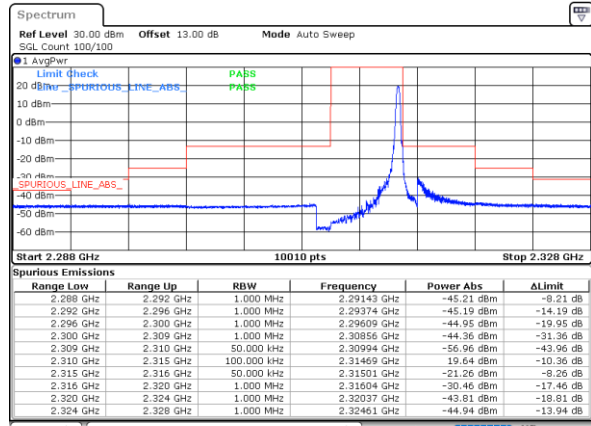
LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / 1 RB



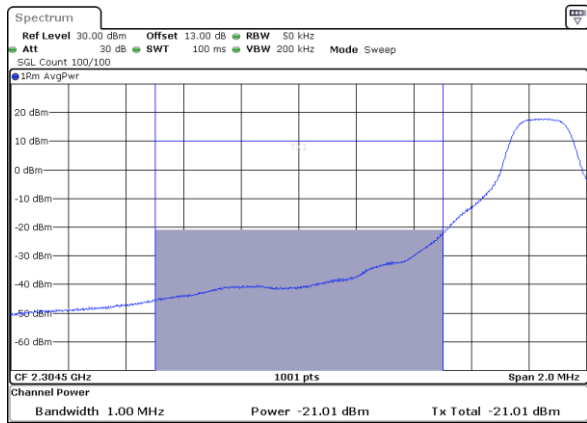
Date: 17_JUN_2024 09:15:28

Highest Band Edge / 1 RB



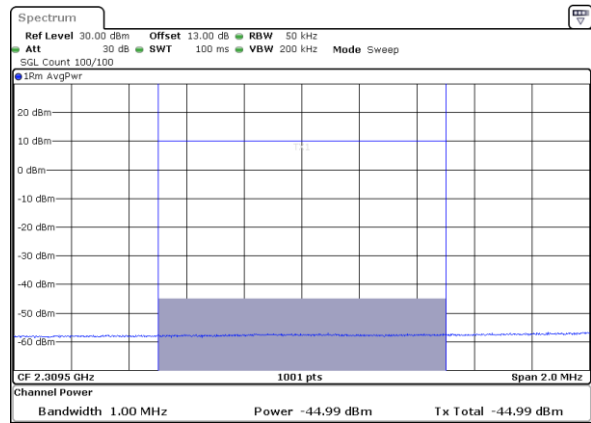
Date: 17_JUN_2024 09:12:50

Lowest Band Edge / 1 RB / Lower zoom in



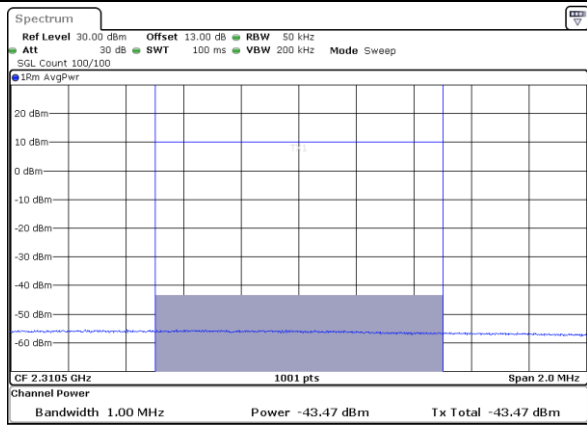
Date: 17_JUN_2024 14:13:39

Highest Band Edge / 1 RB / Lower zoom in



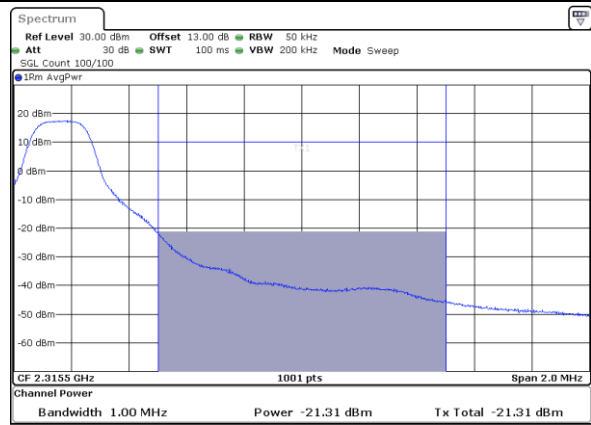
Date: 17_JUN_2024 11:25:43

Lowest Band Edge / 1 RB / Upper zoom in



Date: 17_JUN_2024 14:15:44

Highest Band Edge / 1 RB / Upper zoom in

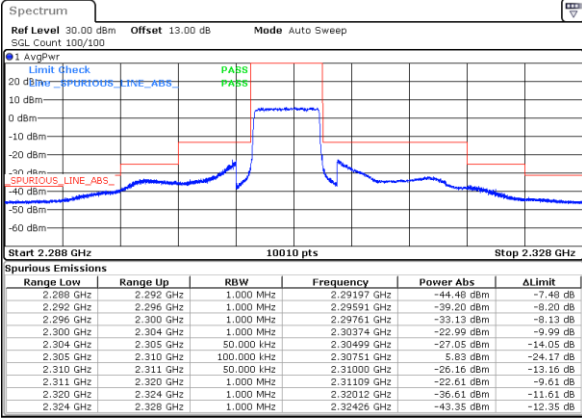


Date: 17_JUN_2024 11:27:45



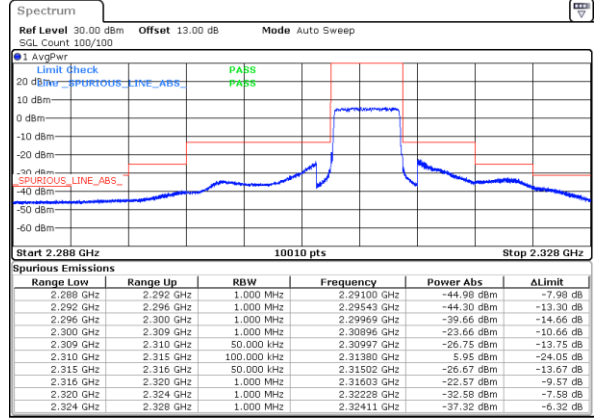
LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / Full RB



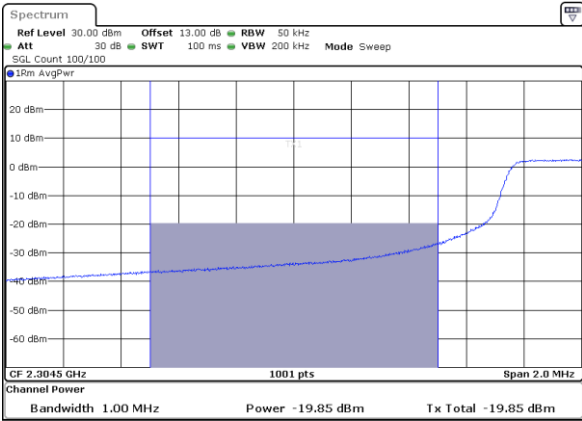
Date: 17_JUN_2024 09:20:10

Highest Band Edge / Full RB



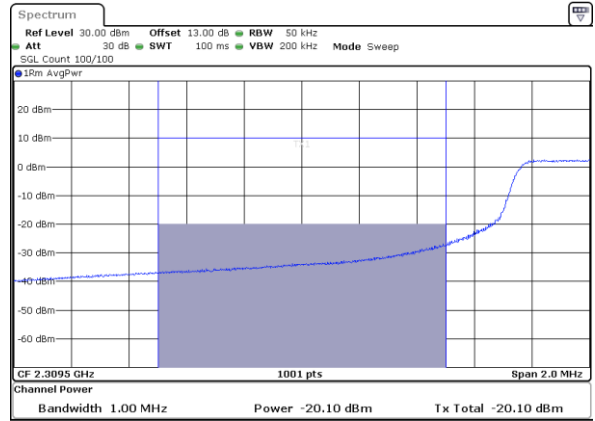
Date: 17_JUN_2024 09:29:43

Lowest Band Edge / Full RB / Lower zoom in



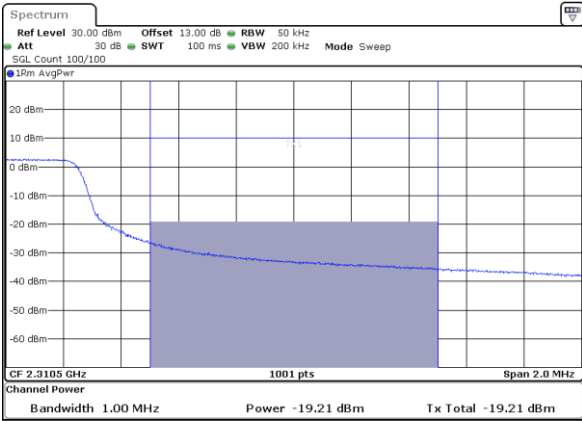
Date: 17_JUN_2024 14:47:23

Highest Band Edge / Full RB / Lower zoom in



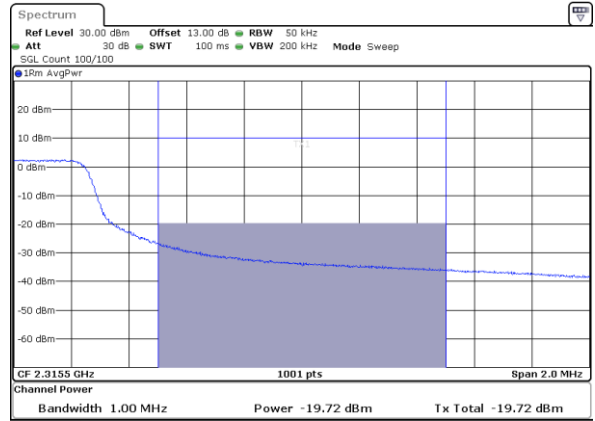
Date: 17_JUN_2024 11:47:01

Lowest Band Edge / Full RB / Upper zoom in



Date: 17_JUN_2024 14:51:27

Highest Band Edge / Full RB / Upper zoom in

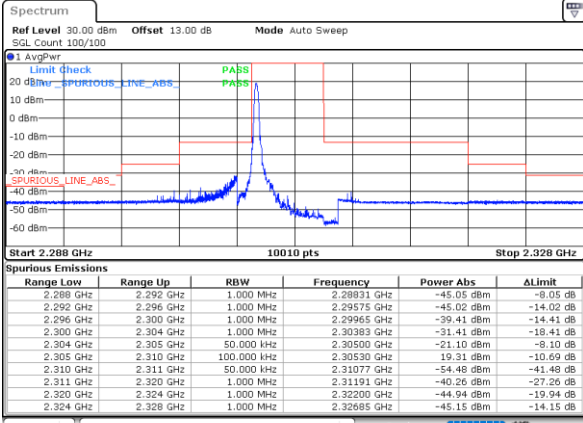


Date: 17_JUN_2024 11:48:50



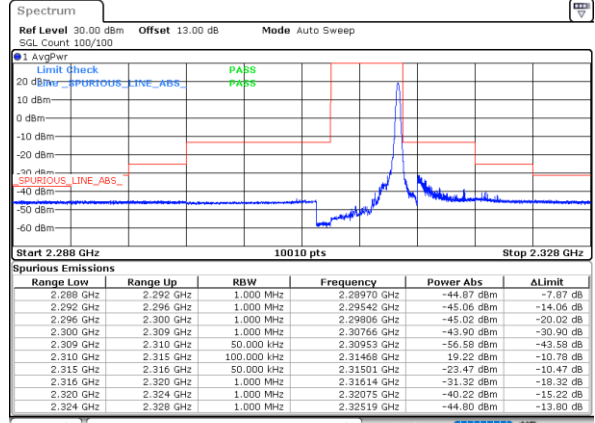
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



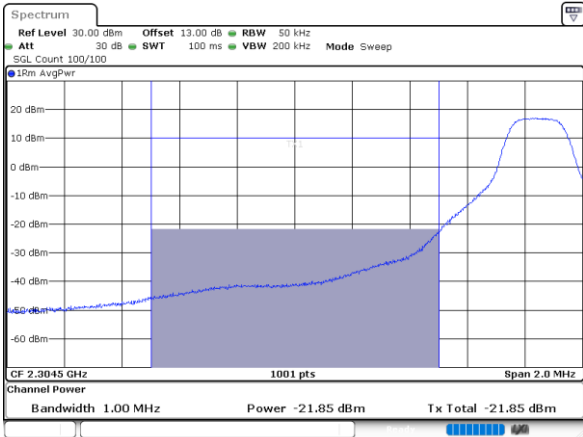
Date: 17_JUN.2024 09:16:40

Highest Band Edge / 1 RB



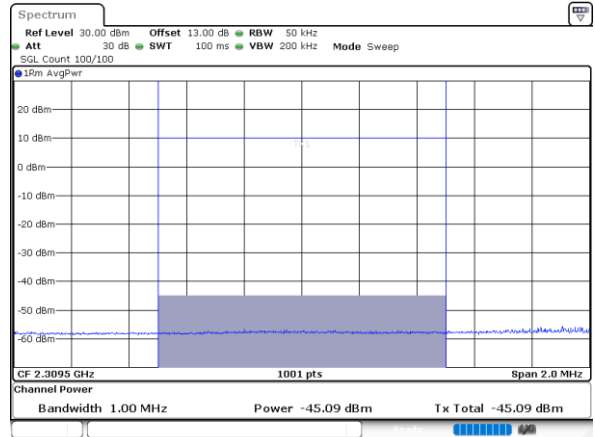
Date: 17_JUN.2024 09:12:12

Lowest Band Edge / 1 RB / Lower zoom in



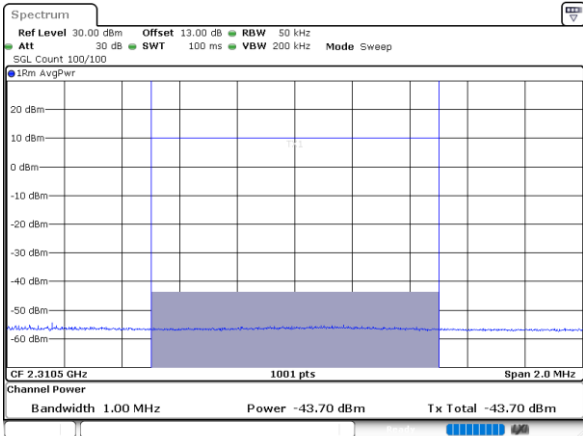
Date: 17_JUN.2024 13:40:18

Highest Band Edge / 1 RB / Lower zoom in



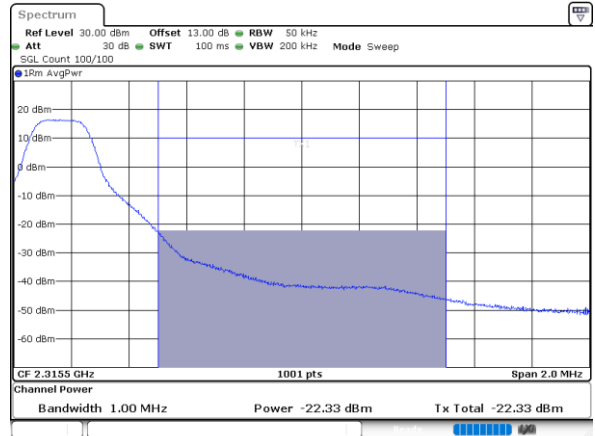
Date: 17_JUN.2024 11:03:16

Lowest Band Edge / 1 RB / Upper zoom in



Date: 17_JUN.2024 13:42:29

Highest Band Edge / 1 RB / Upper zoom in

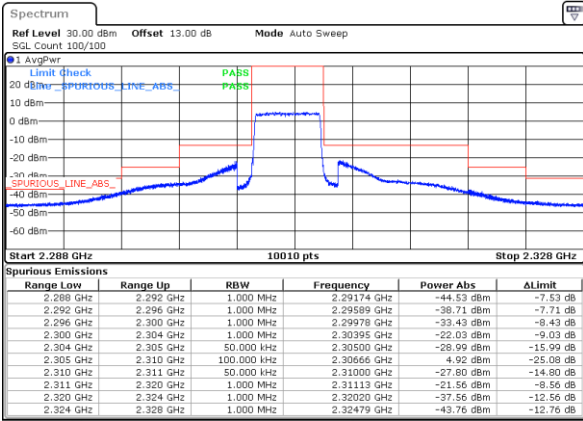


Date: 17_JUN.2024 11:06:05



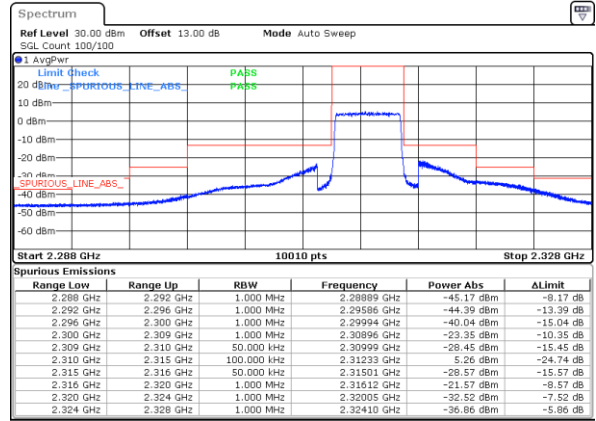
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / Full RB



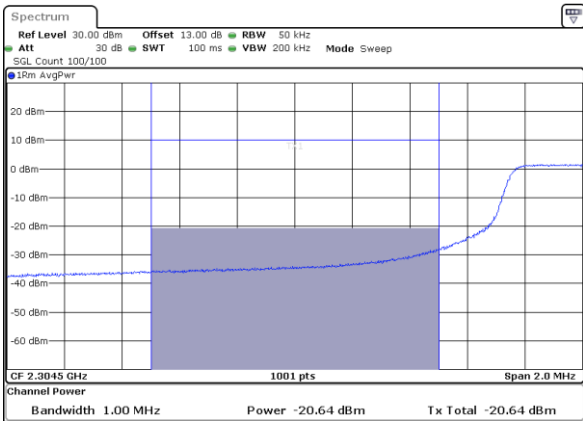
Date: 17_JUN_2024 09:21:22

Highest Band Edge / Full RB



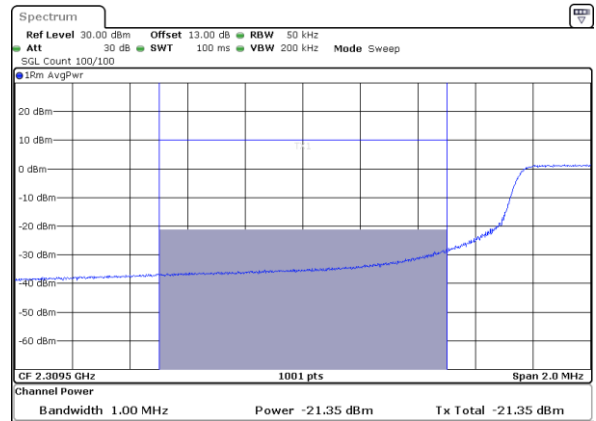
Date: 17_JUN_2024 09:13:52

Lowest Band Edge / Full RB / Lower zoom in



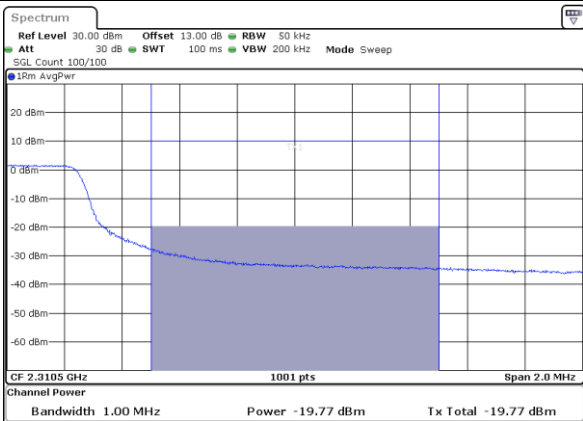
Date: 17_JUN_2024 14:20:15

Highest Band Edge / Full RB / Lower zoom in



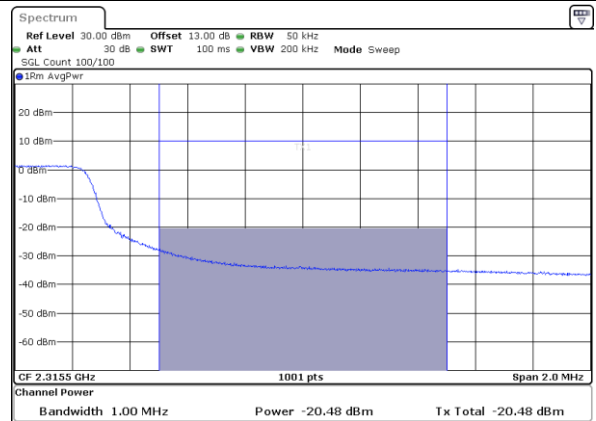
Date: 17_JUN_2024 11:32:12

Lowest Band Edge / Full RB / Upper zoom in



Date: 17_JUN_2024 14:24:11

Highest Band Edge / Full RB / Upper zoom in

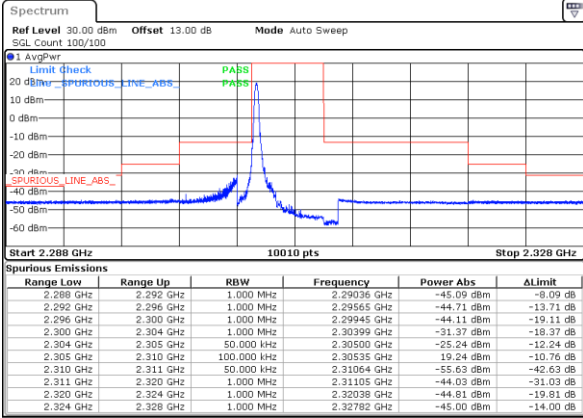


Date: 17_JUN_2024 11:35:48



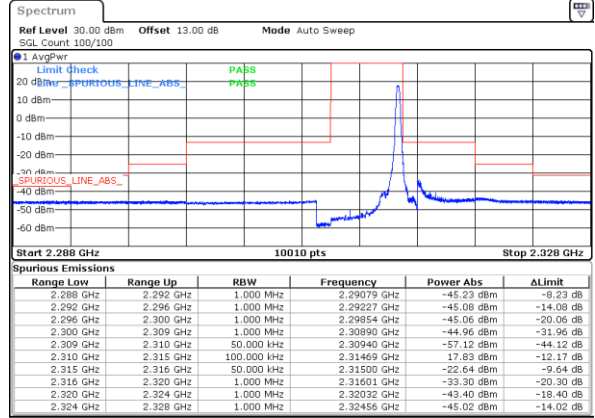
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



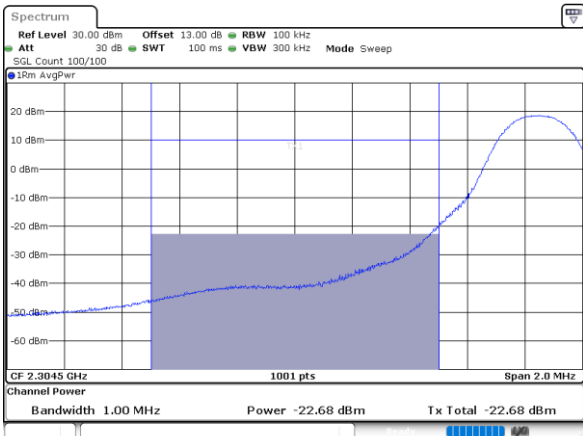
Date: 17_JUN_2024 09:17:52

Highest Band Edge / 1 RB



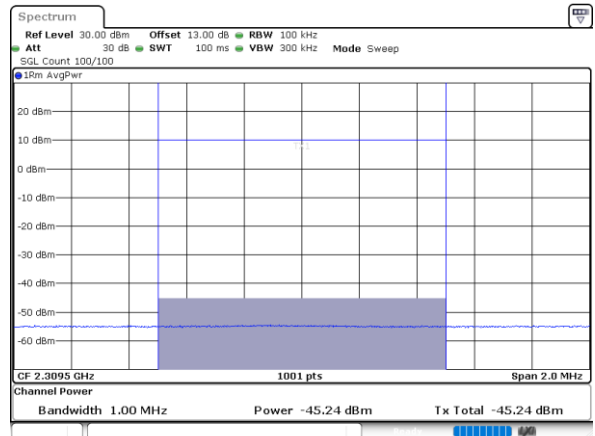
Date: 17_JUN_2024 09:12:12

Lowest Band Edge / 1 RB / Lower zoom in



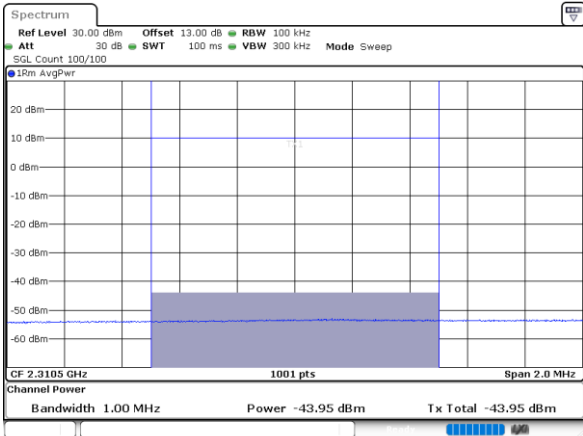
Date: 17_JUN_2024 13:59:02

Highest Band Edge / 1 RB / Lower zoom in



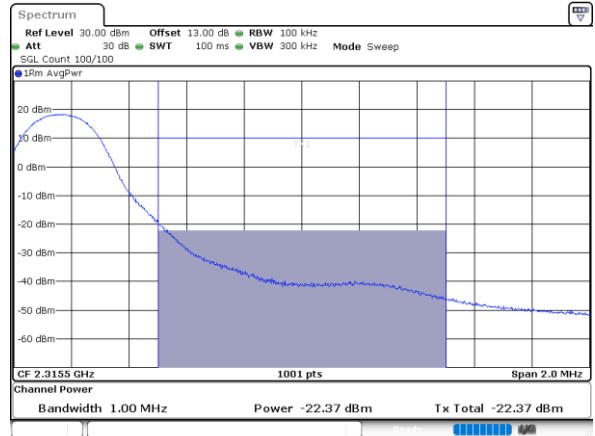
Date: 17_JUN_2024 11:09:41

Lowest Band Edge / 1 RB / Upper zoom in



Date: 17_JUN_2024 14:00:33

Highest Band Edge / 1 RB / Upper zoom in

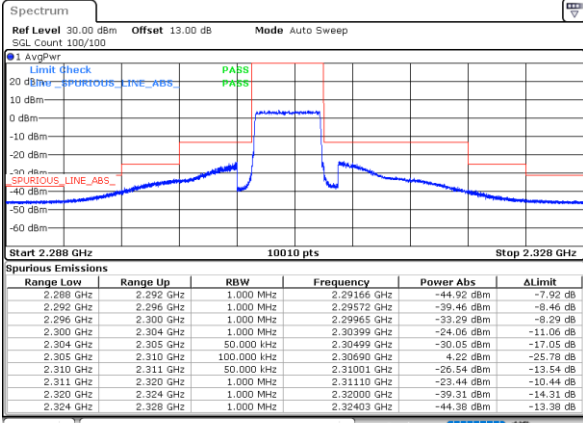


Date: 17_JUN_2024 11:12:45



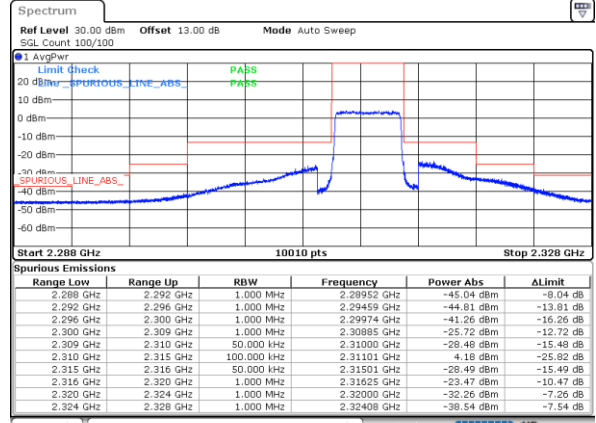
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / Full RB



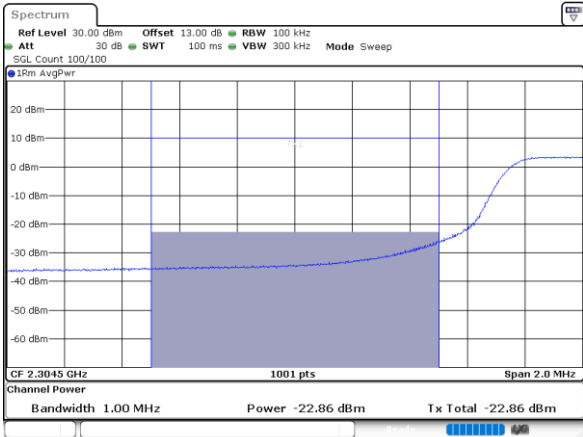
Date: 17_JUN_2024 09:22:33

Highest Band Edge / Full RB



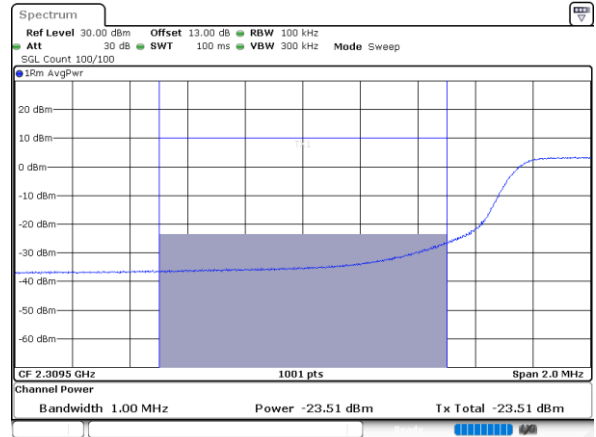
Date: 17_JUN_2024 09:31:59

Lowest Band Edge / Full RB / Lower zoom in



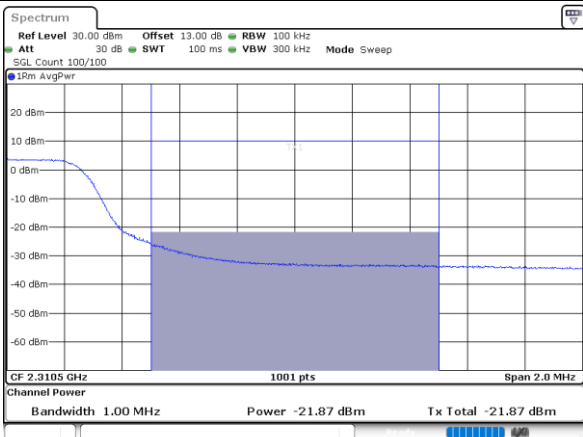
Date: 17_JUN_2024 14:26:48

Highest Band Edge / Full RB / Lower zoom in



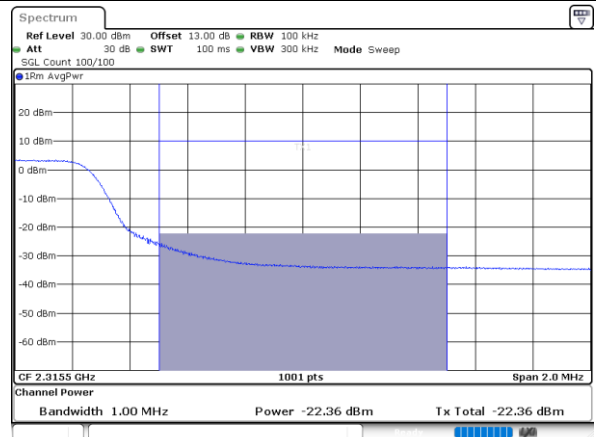
Date: 17_JUN_2024 11:38:32

Lowest Band Edge / Full RB / Upper zoom in



Date: 17_JUN_2024 14:28:15

Highest Band Edge / Full RB / Upper zoom in

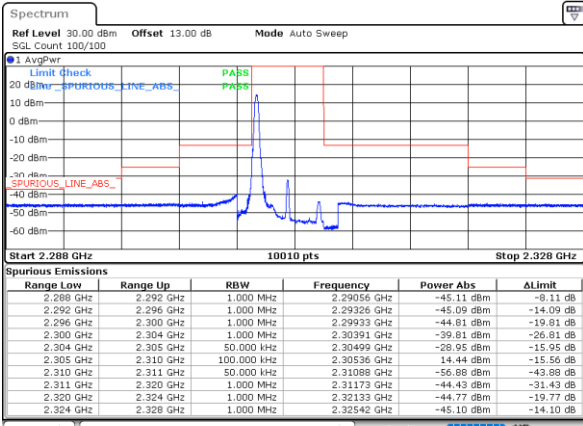


Date: 17_JUN_2024 11:41:52



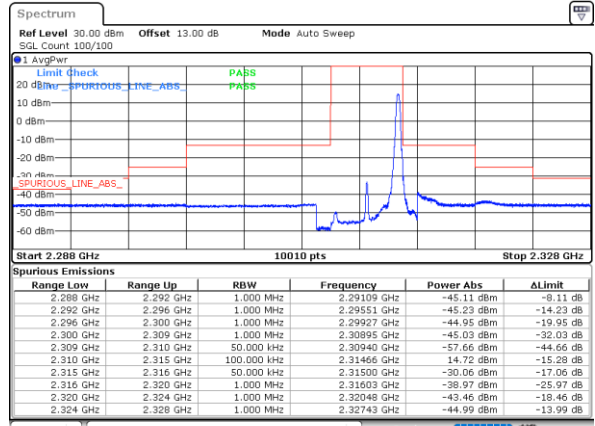
LTE Band 30 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



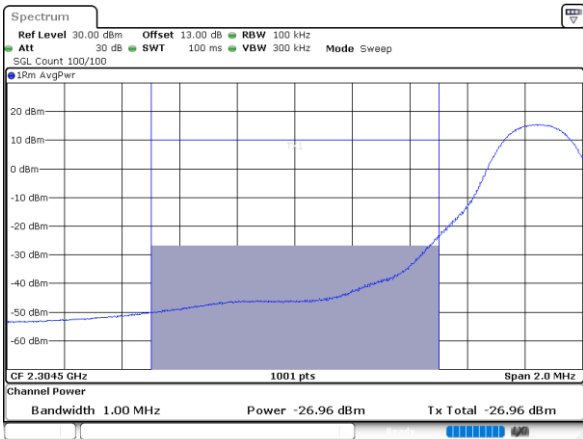
Date: 17_JUN.2024 09:18:59

Highest Band Edge / 1 RB



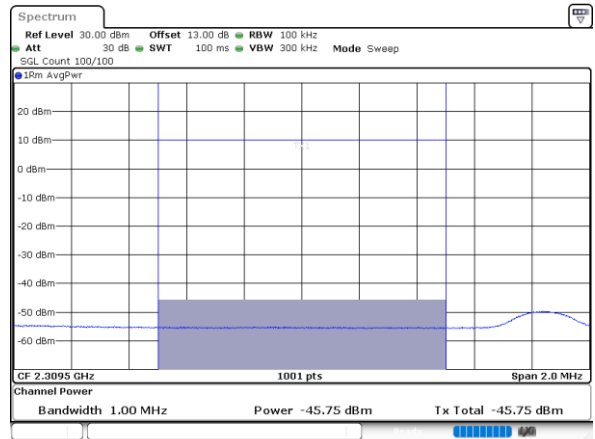
Date: 17_JUN.2024 09:28:29

Lowest Band Edge / 1 RB / Lower zoom in



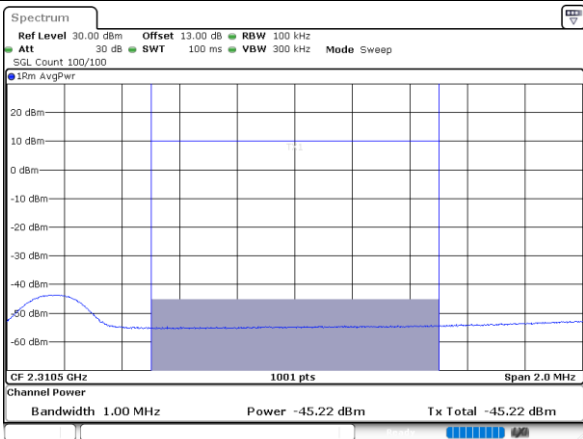
Date: 17_JUN.2024 14:04:10

Highest Band Edge / 1 RB / Lower zoom in



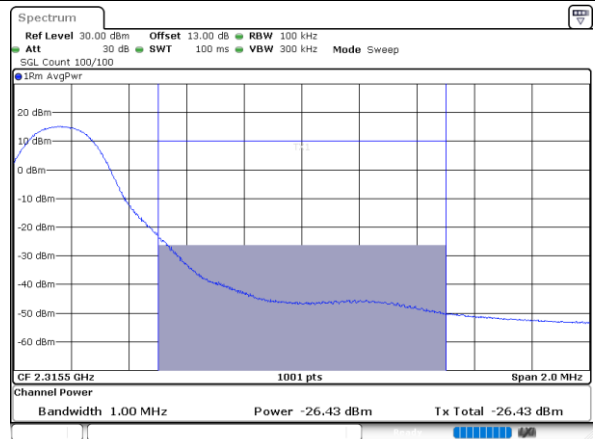
Date: 17_JUN.2024 11:28:43

Lowest Band Edge / 1 RB / Upper zoom in



Date: 17_JUN.2024 14:09:51

Highest Band Edge / 1 RB / Upper zoom in

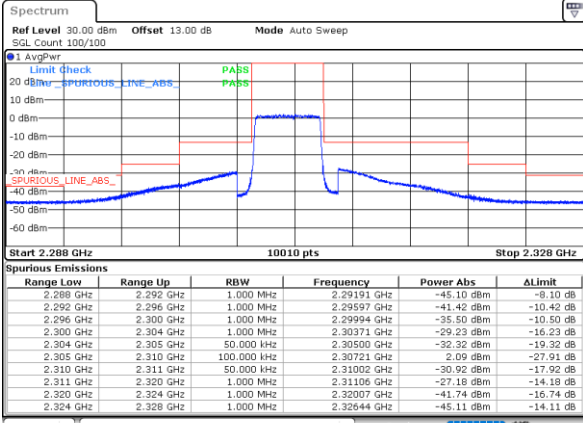


Date: 17_JUN.2024 11:24:02



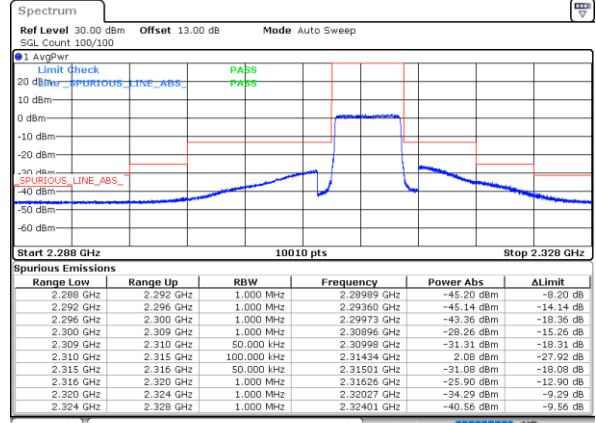
LTE Band 30 / 5MHz / 256QAM

Lowest Band Edge / Full RB



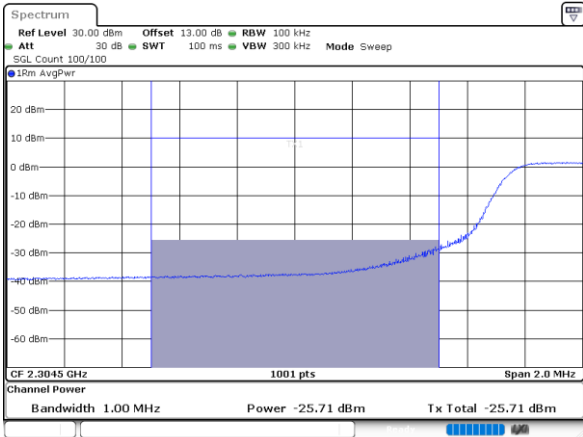
Date: 17_JUN.2024 09:23:46

Highest Band Edge / Full RB



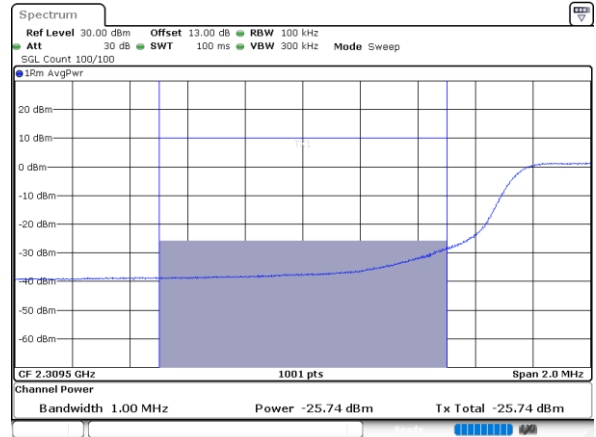
Date: 17_JUN.2024 09:33:09

Lowest Band Edge / Full RB / Lower zoom in



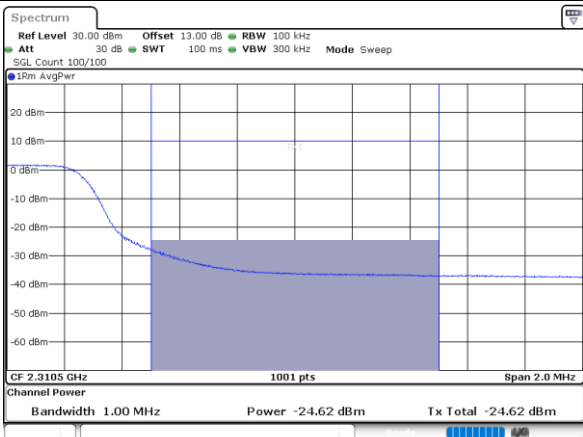
Date: 17_JUN.2024 14:33:29

Highest Band Edge / Full RB / Lower zoom in



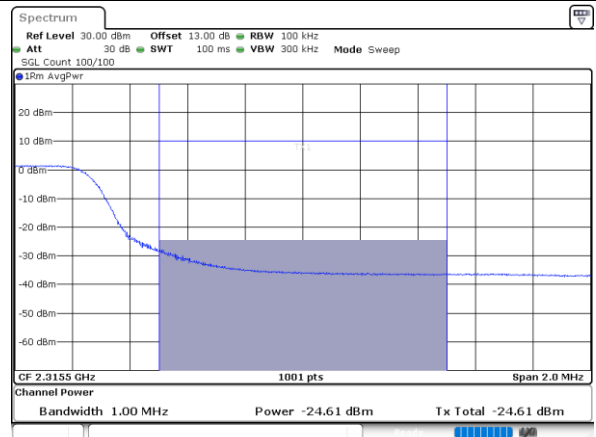
Date: 17_JUN.2024 11:43:11

Lowest Band Edge / Full RB / Upper zoom in



Date: 17_JUN.2024 14:41:41

Highest Band Edge / Full RB / Upper zoom in

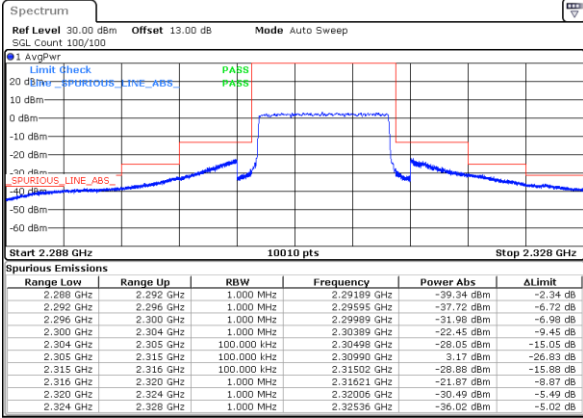


Date: 17_JUN.2024 11:45:16



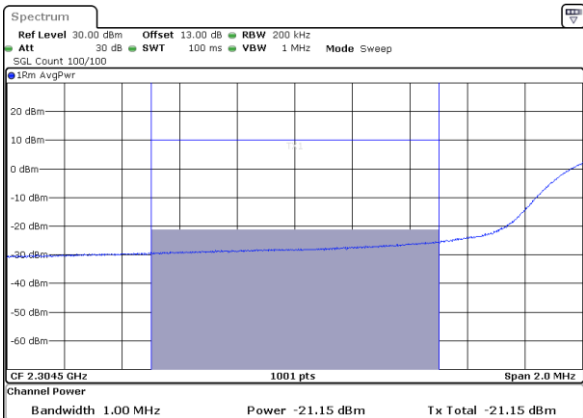
LTE Band 30 / 10MHz / QPSK

Middle Band Edge / Full RB



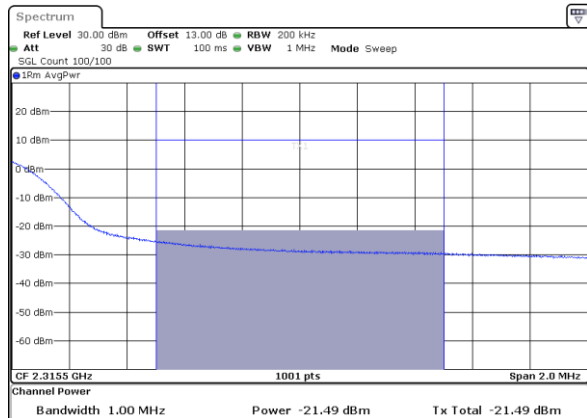
Date: 17 JUN 2024 09:53:42

Middle Band Edge / Full RB / Lower zoom in



Date: 17 JUN 2024 16:16:15

Middle Band Edge / Full RB / Upper zoom in

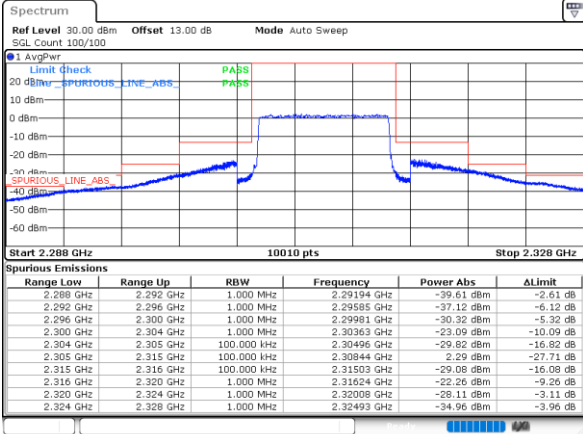


Date: 17 JUN 2024 16:18:40



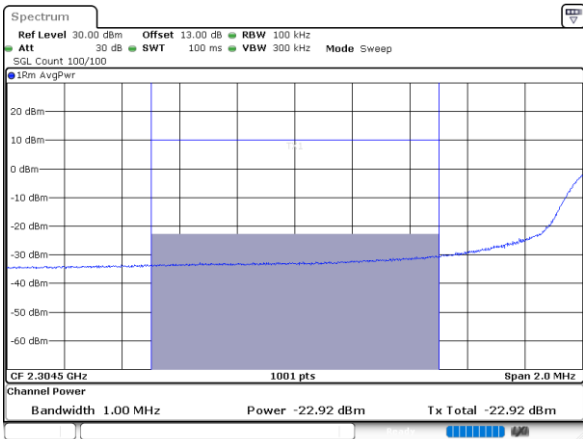
LTE Band 30 / 10MHz / 16QAM

Middle Band Edge / Full RB



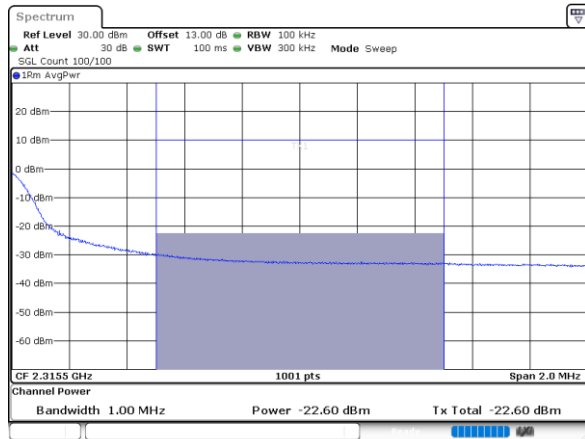
Date: 17 JUN 2024 09:54:55

Middle Band Edge / Full RB / Lower zoom in



Date: 17 JUN 2024 15:04:19

Middle Band Edge / Full RB / Upper zoom in

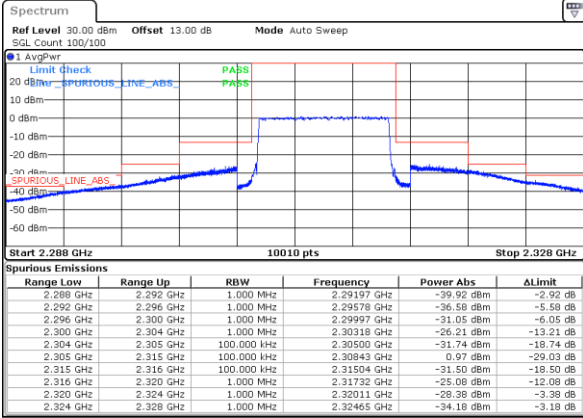


Date: 17 JUN 2024 15:11:47



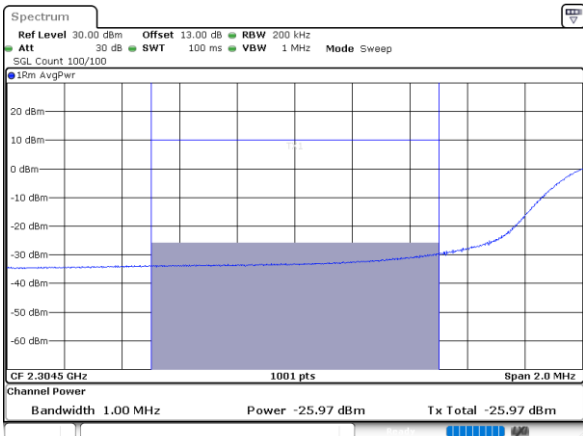
LTE Band 30 / 10MHz / 64QAM

Middle Band Edge / Full RB



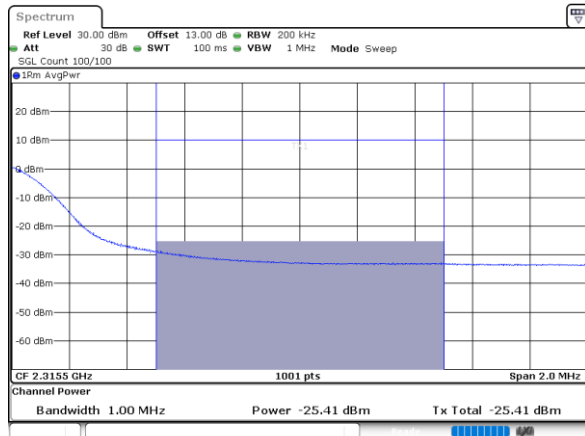
Date: 17 JUN 2024 09:56:05

Middle Band Edge / Full RB / Lower zoom in



Date: 17 JUN 2024 16:20:56

Middle Band Edge / Full RB / Upper zoom in

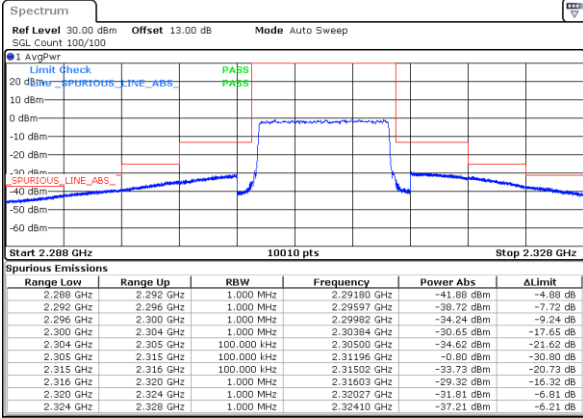


Date: 17 JUN 2024 16:22:46



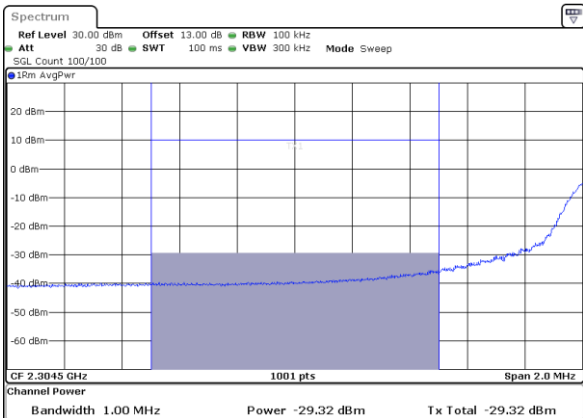
LTE Band 30 / 10MHz / 256QAM

Middle Band Edge / Full RB



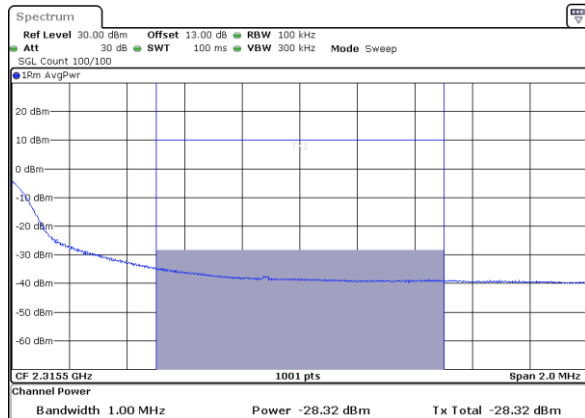
Date: 17 JUN 2024 09:57:12

Middle Band Edge / Full RB / Lower zoom in



Date: 17 JUN 2024 15:46:54

Middle Band Edge / Full RB / Upper zoom in



Date: 17 JUN 2024 16:03:50

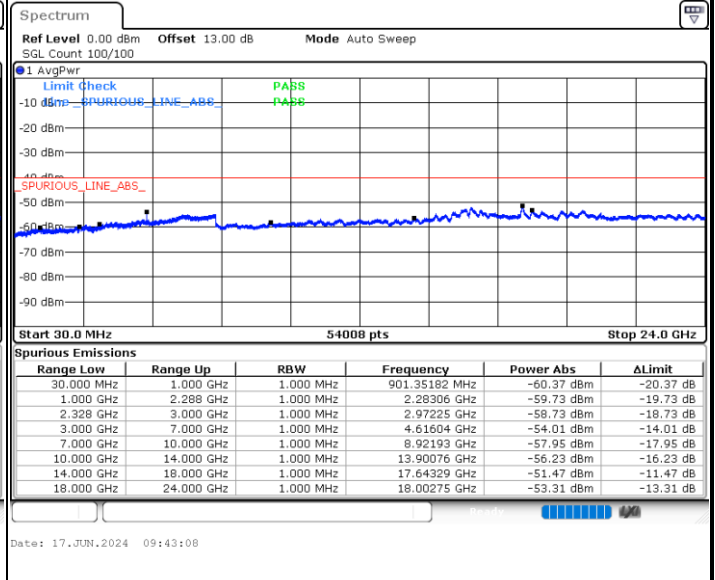
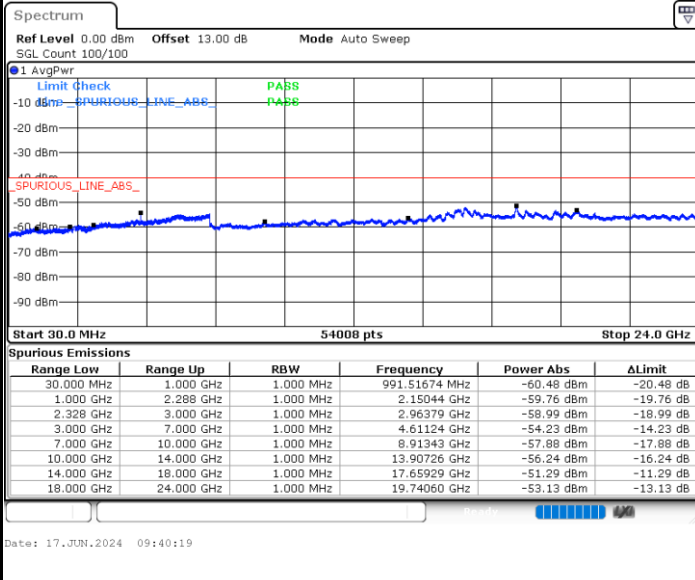


Conducted Spurious Emission

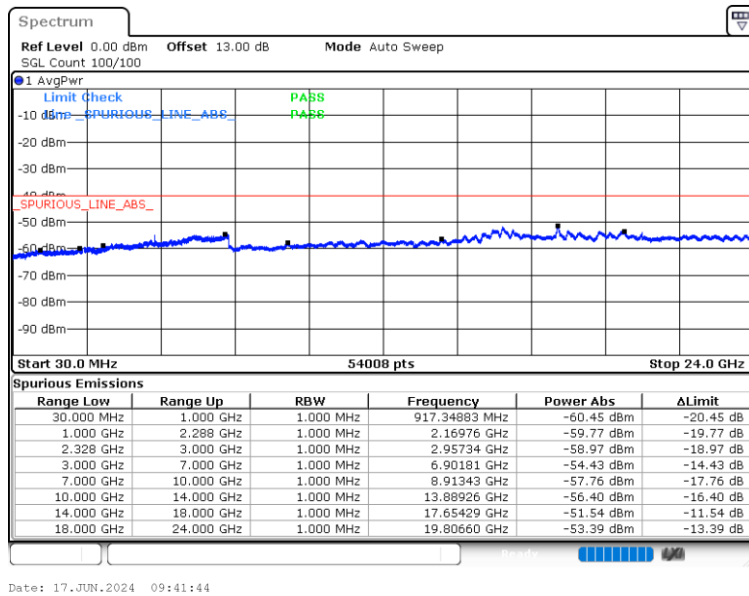
LTE Band 30 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



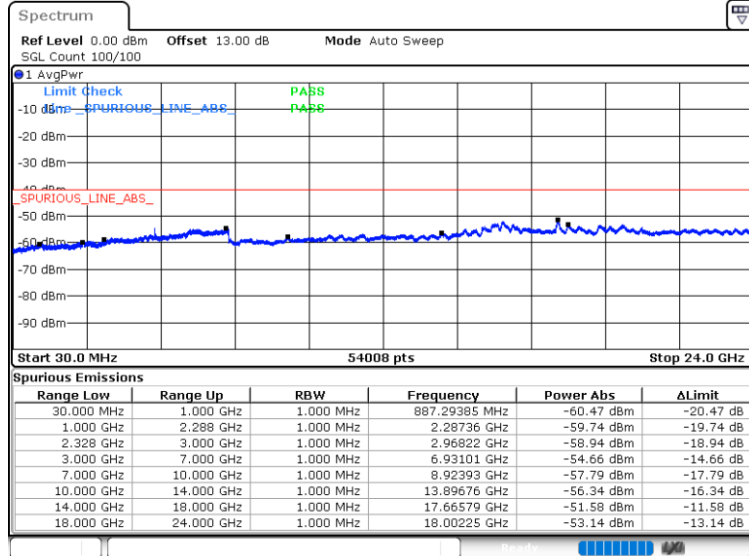
Highest Channel / QPSK





LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 17.JUN.2024 10:07:32



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	0.0017	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0053	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

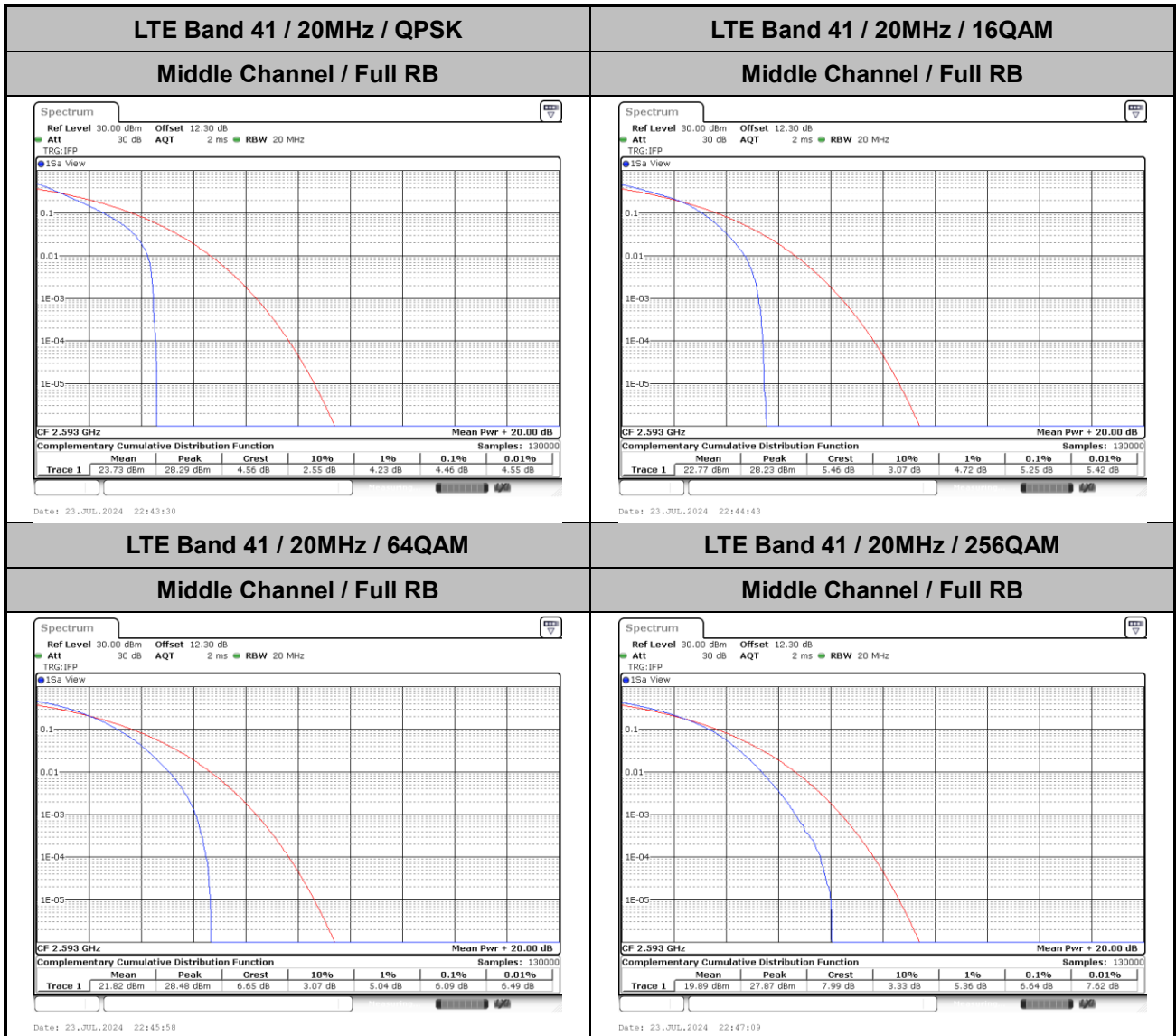
- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.465 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



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	4.46	5.25	6.09	6.64	PASS





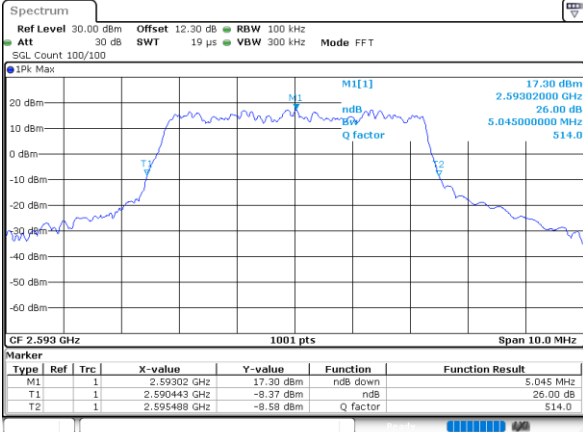
26dB Bandwidth

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	-	-	-	-	5.04	4.98	9.66	9.97	14.29	14.23	19.02	19.10
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	-	-	-	-	5.09	5.06	9.84	9.75	14.14	14.29	19.53	19.22



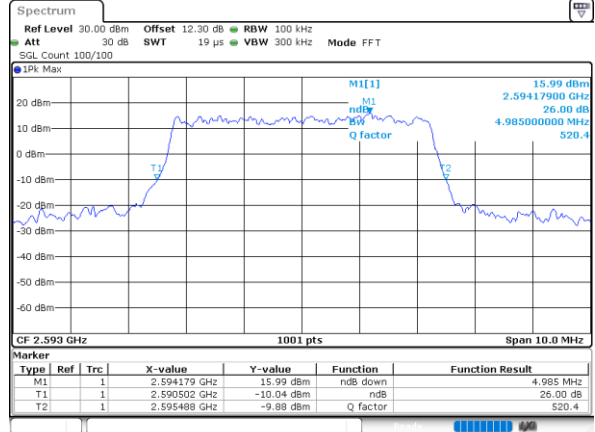
LTE Band 41

Middle Channel / 5MHz / QPSK



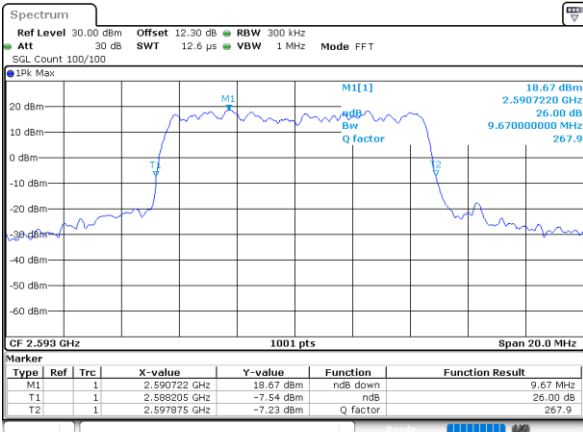
Date: 23_JUL_2024 17:59:55

Middle Channel / 5MHz / 16QAM



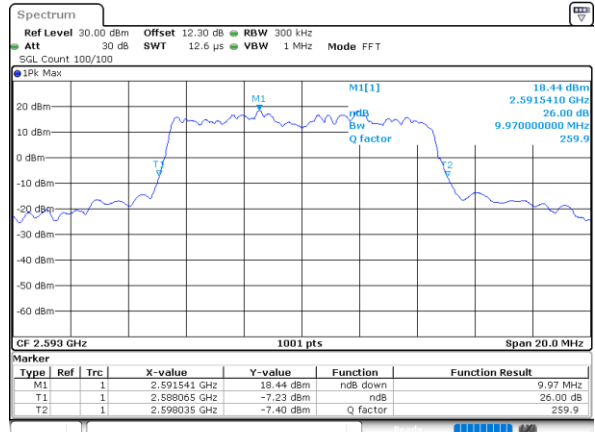
Date: 23_JUL_2024 18:00:44

Middle Channel / 10MHz / QPSK



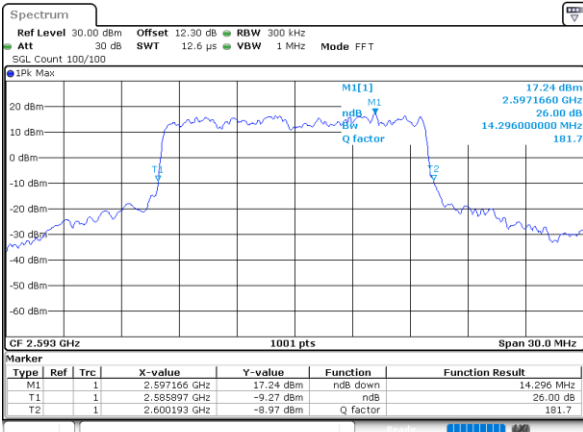
Date: 23_JUL_2024 19:04:31

Middle Channel / 10MHz / 16QAM



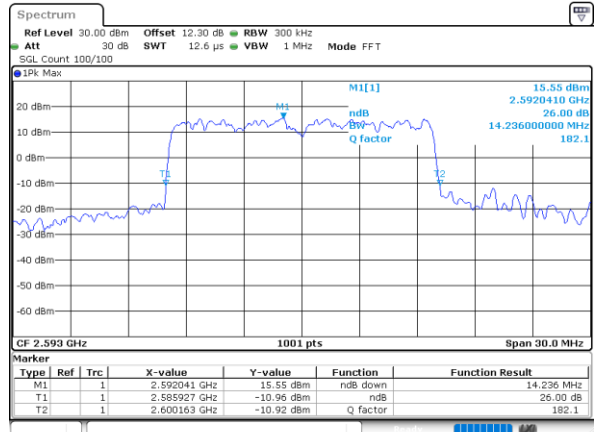
Date: 23_JUL_2024 19:05:38

Middle Channel / 15MHz / QPSK



Date: 23_JUL_2024 20:38:27

Middle Channel / 15MHz / 16QAM

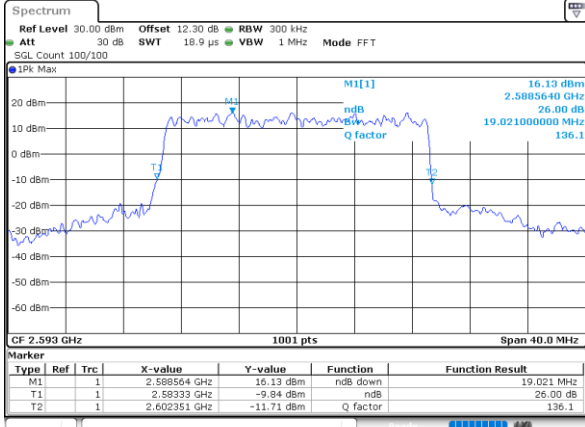


Date: 23_JUL_2024 20:57:11



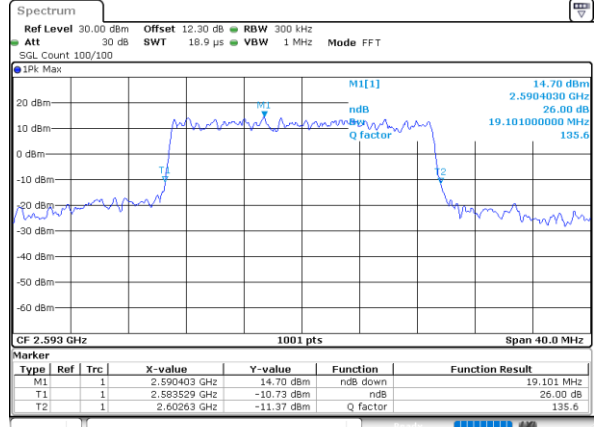
LTE Band 41

Middle Channel / 20MHz / QPSK



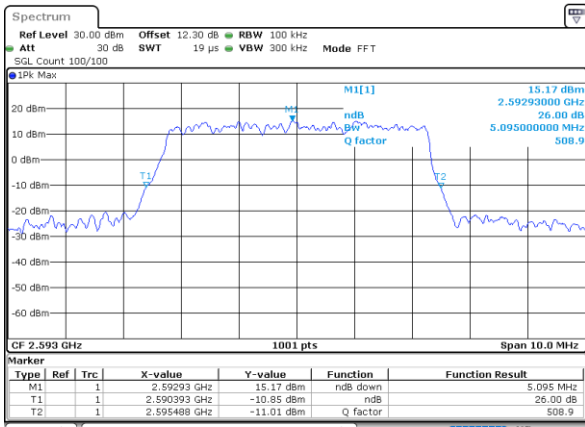
Date: 23_JUL_2024 21:32:59

Middle Channel / 20MHz / 16QAM



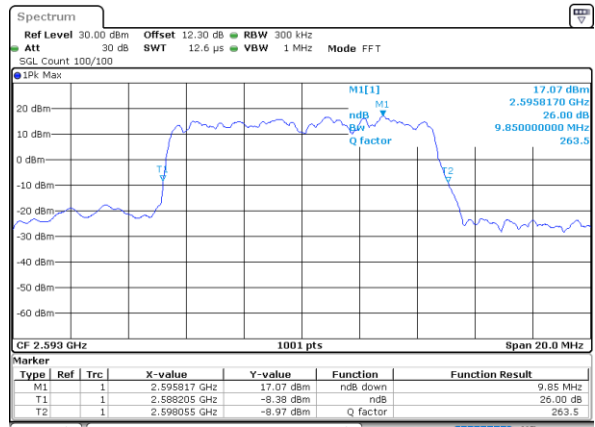
Date: 23_JUL_2024 21:33:59

Middle Channel / 5MHz / 64QAM



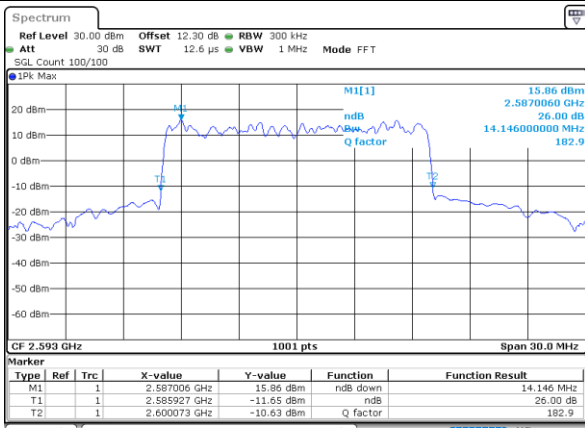
Date: 23_JUL_2024 19:01:48

Middle Channel / 10MHz / 64QAM



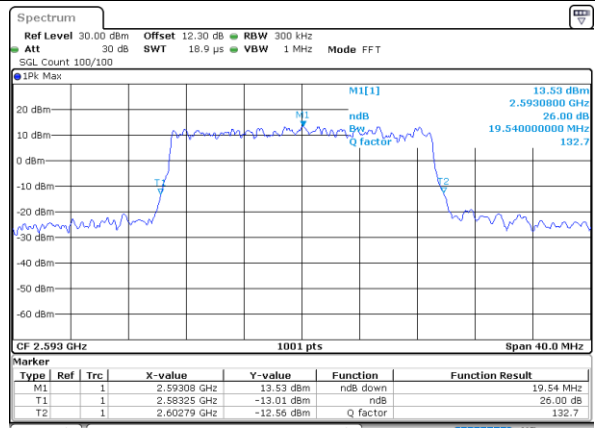
Date: 23_JUL_2024 19:06:53

Middle Channel / 15MHz / 64QAM



Date: 23_JUL_2024 20:58:31

Middle Channel / 20MHz / 64QAM

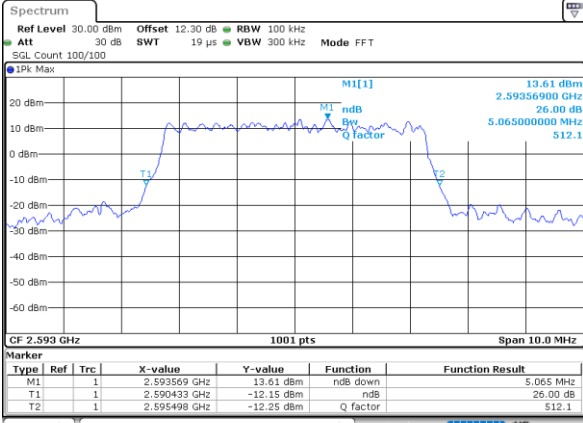


Date: 23_JUL_2024 22:10:29



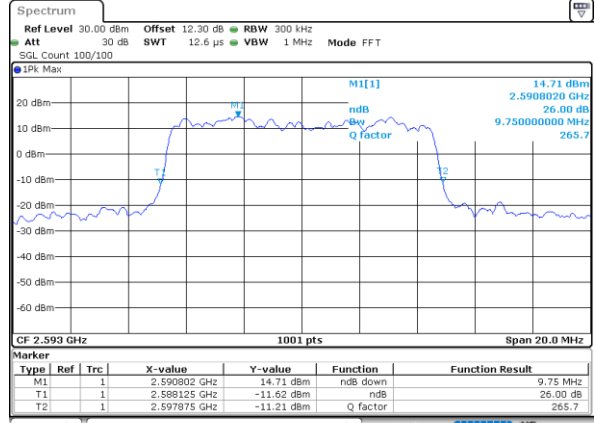
LTE Band 41

Middle Channel / 5MHz / 256QAM



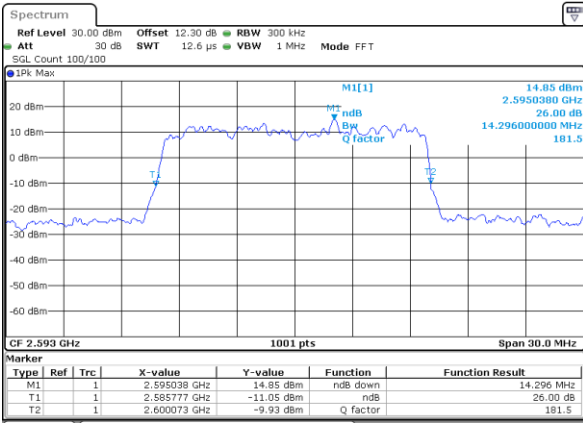
Date: 23_JUL_2024 19:03:01

Middle Channel / 10MHz / 256QAM



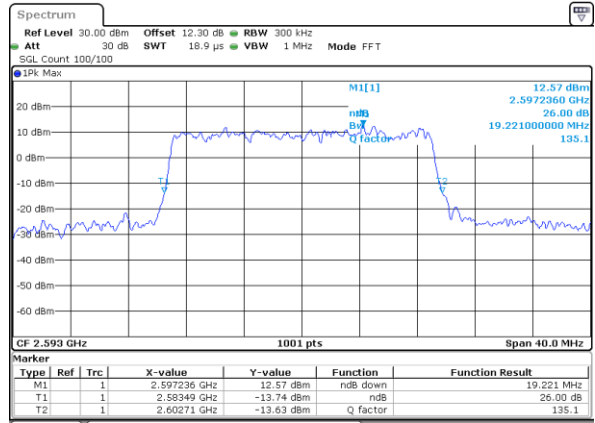
Date: 23_JUL_2024 19:08:04

Middle Channel / 15MHz / 256QAM



Date: 23_JUL_2024 20:59:44

Middle Channel / 20MHz / 256QAM



Date: 23_JUL_2024 22:31:52



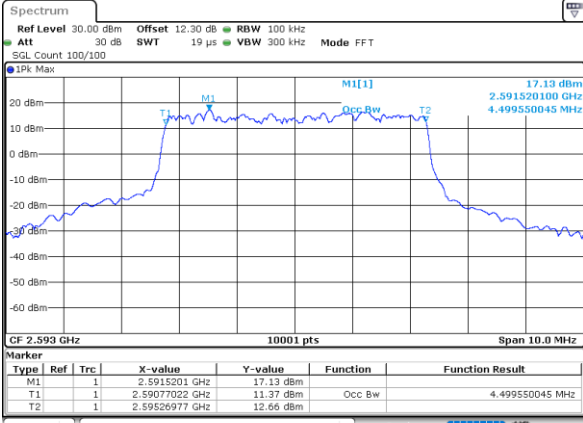
Occupied Bandwidth

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	9.00	9.03	13.48	13.50	17.87	17.85
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	-	-	-	-	4.49	4.50	9.07	9.05	13.45	13.51	17.86	17.91



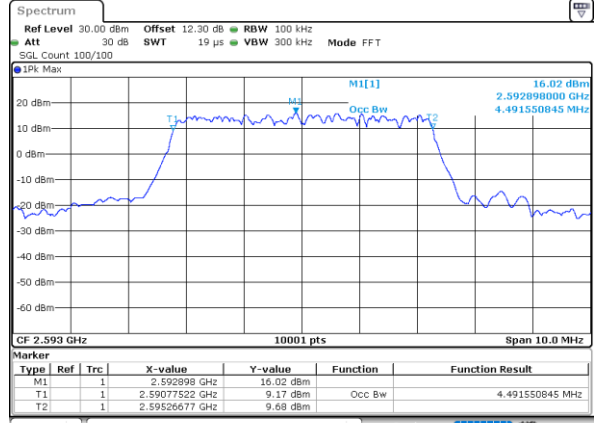
LTE Band 41

Middle Channel / 5MHz / QPSK



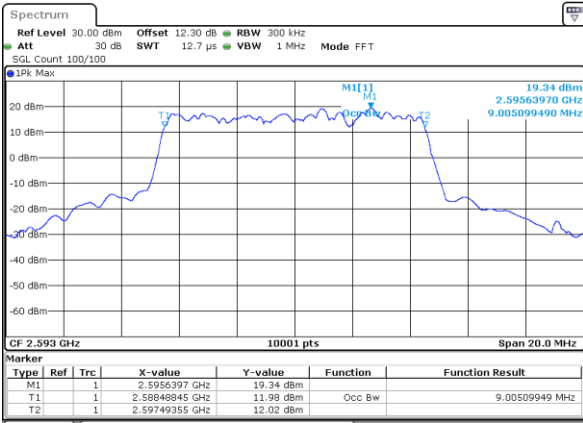
Date: 23_JUL_2024 17:55:07

Middle Channel / 5MHz / 16QAM



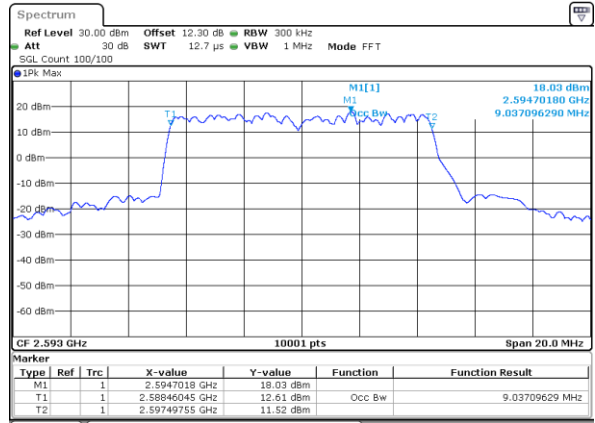
Date: 23_JUL_2024 17:56:55

Middle Channel / 10MHz / QPSK



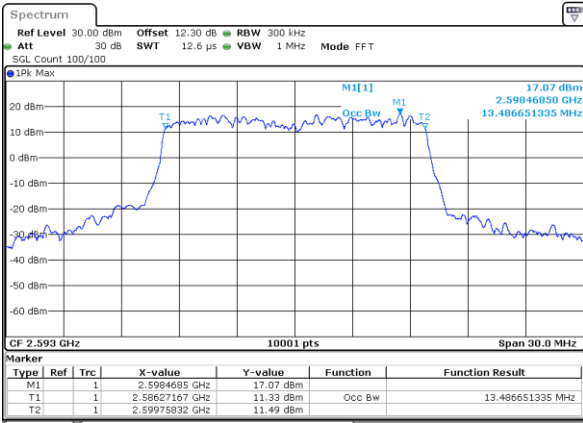
Date: 23_JUL_2024 18:33:03

Middle Channel / 10MHz / 16QAM



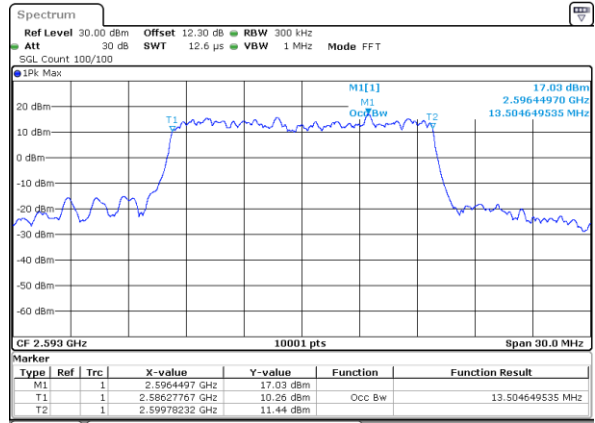
Date: 23_JUL_2024 18:34:35

Middle Channel / 15MHz / QPSK



Date: 23_JUL_2024 20:33:51

Middle Channel / 15MHz / 16QAM

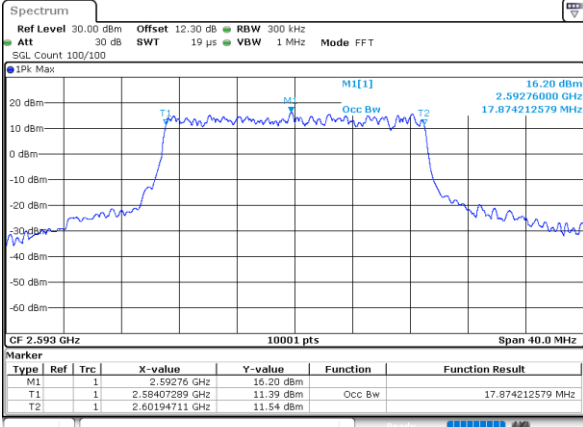


Date: 23_JUL_2024 20:34:51



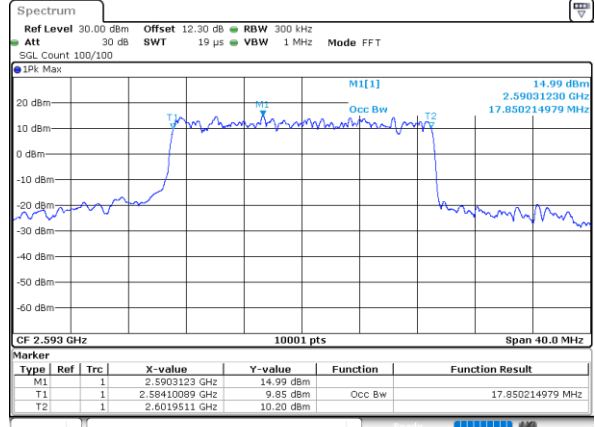
LTE Band 41

Middle Channel / 20MHz / QPSK



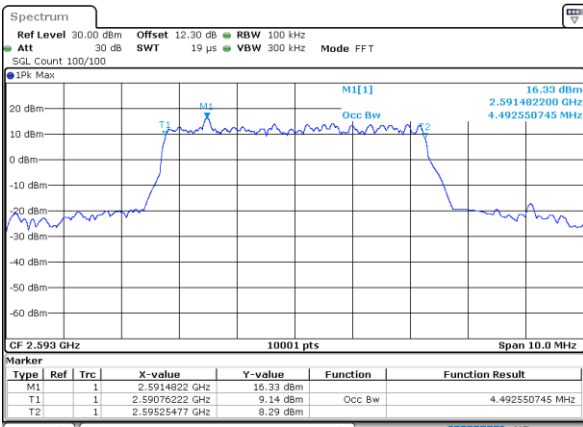
Date: 23_JUL_2024 21:28:11

Middle Channel / 20MHz / 16QAM



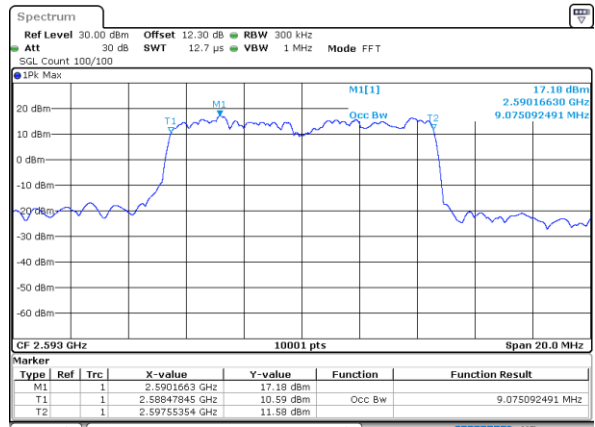
Date: 23_JUL_2024 21:29:24

Middle Channel / 5MHz / 64QAM



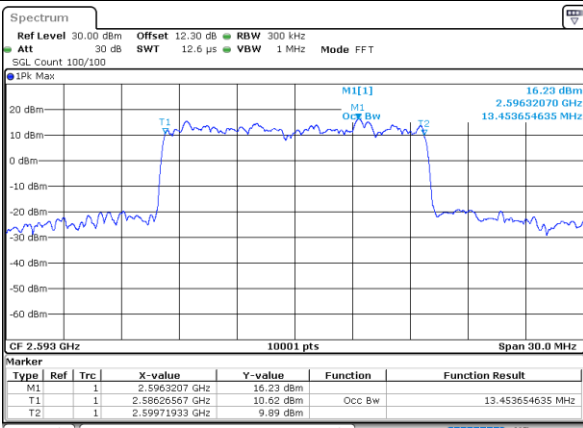
Date: 23_JUL_2024 17:58:01

Middle Channel / 10MHz / 64QAM



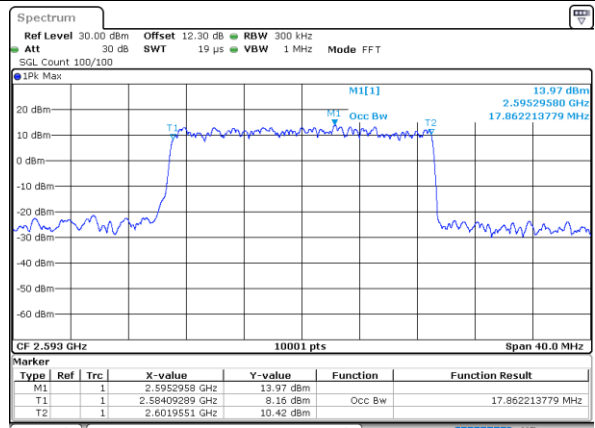
Date: 23_JUL_2024 18:25:47

Middle Channel / 15MHz / 64QAM



Date: 23_JUL_2024 20:53:20

Middle Channel / 20MHz / 64QAM



Date: 23_JUL_2024 22:25:34