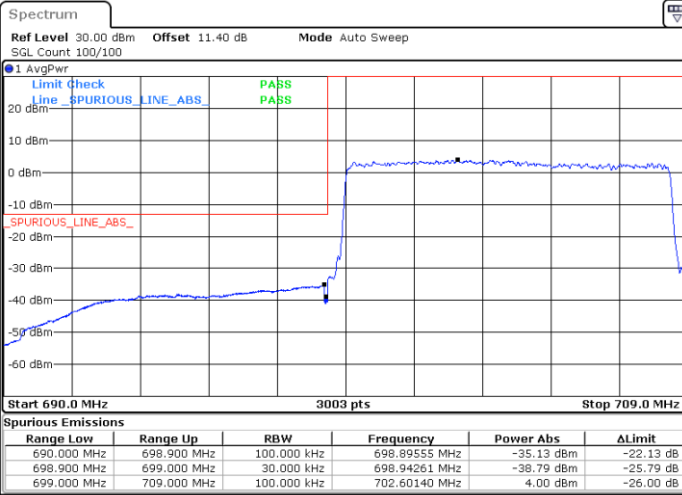




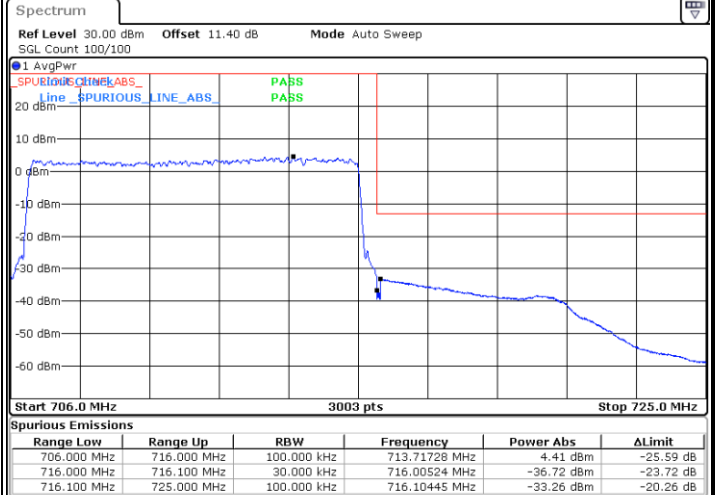
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 27.MAR.2024 18:23:00

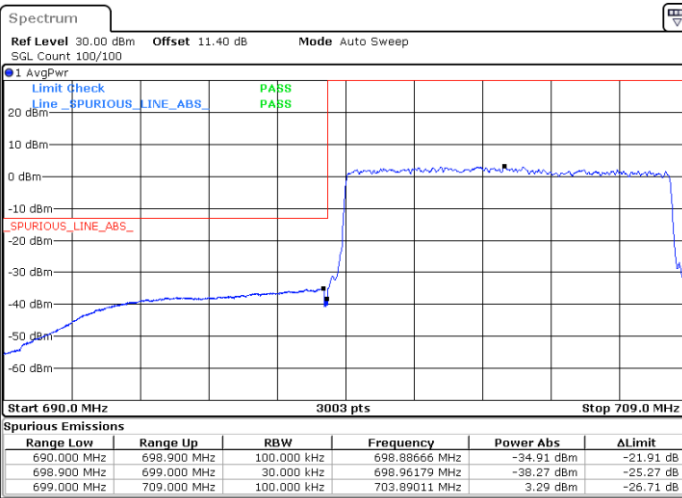
Highest Band Edge / Full RB



Date: 27.MAR.2024 18:33:18

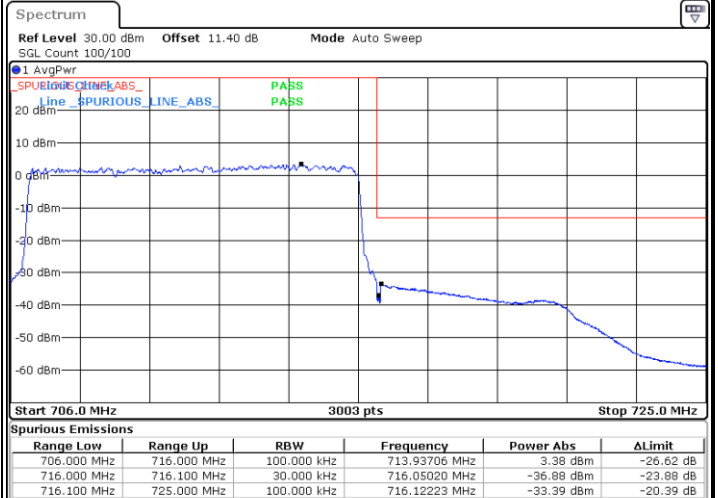
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 18:24:49

Highest Band Edge / Full RB



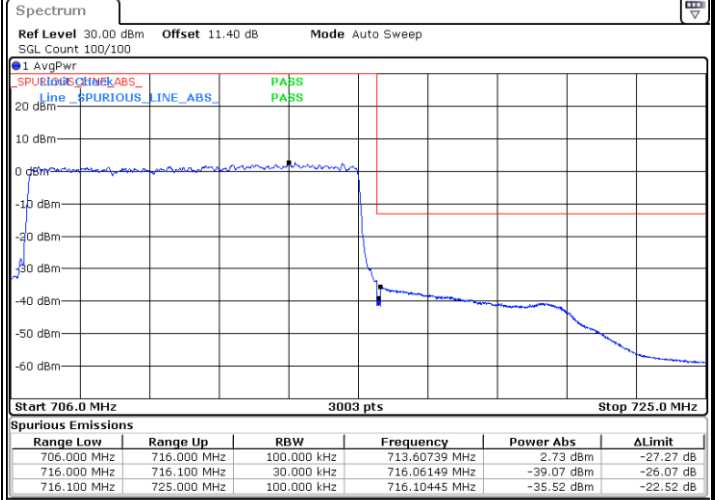
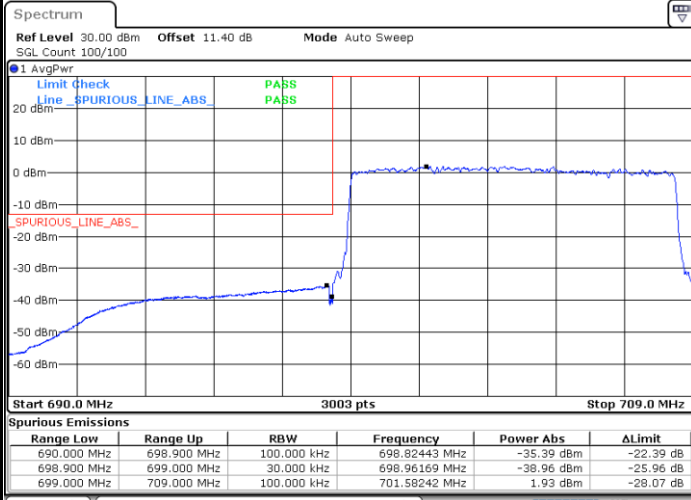
Date: 27.MAR.2024 18:34:54



LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

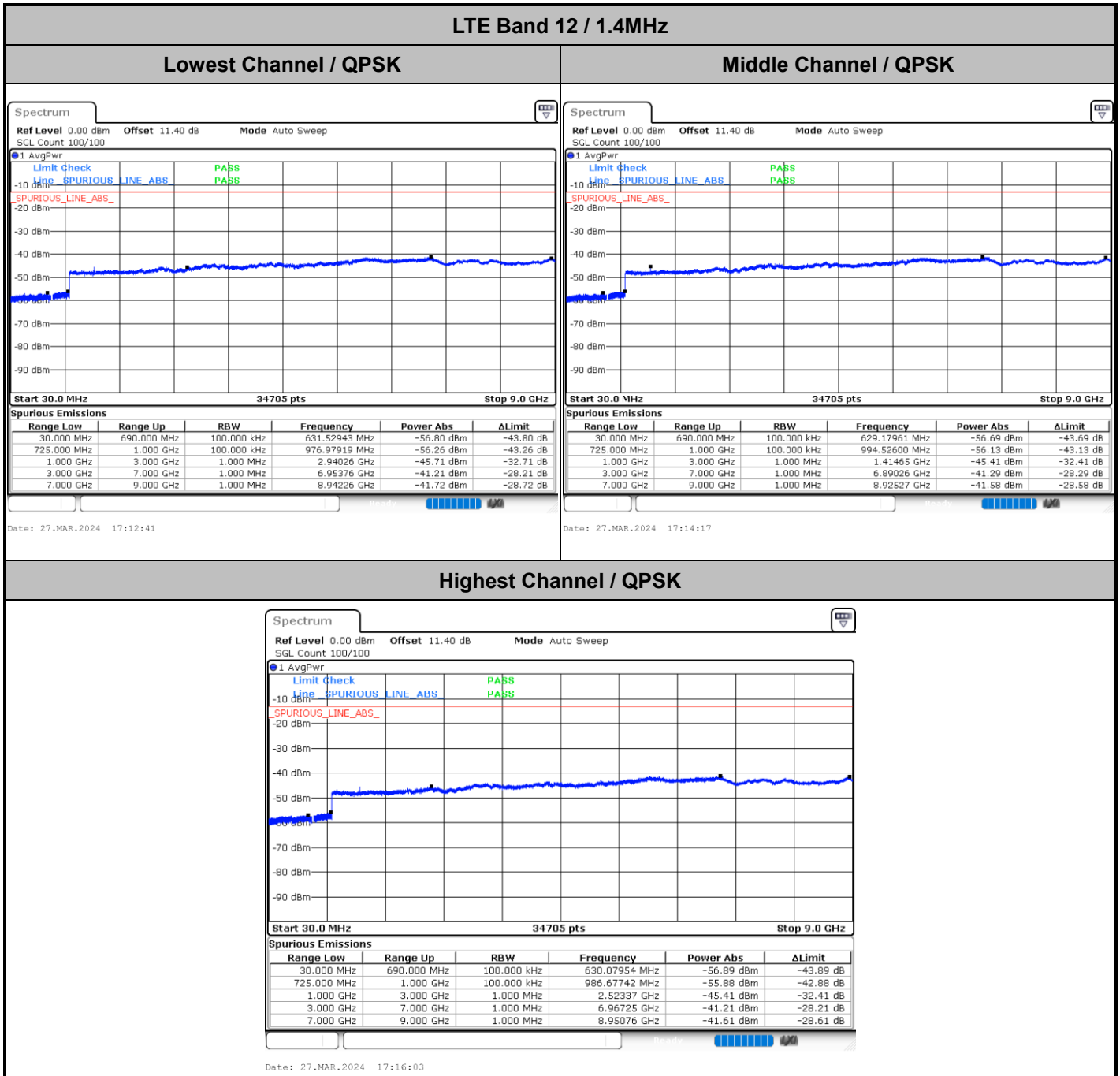


Date: 27.MAR.2024 18:26:34

Date: 27.MAR.2024 18:36:35



Conducted Spurious Emission

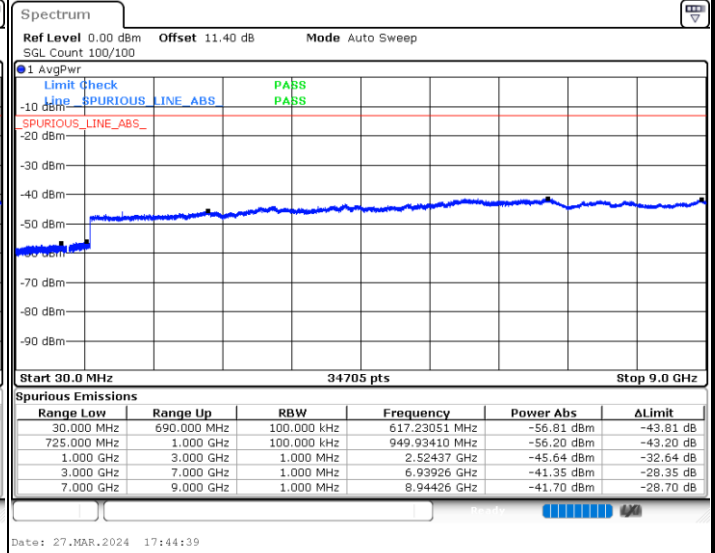
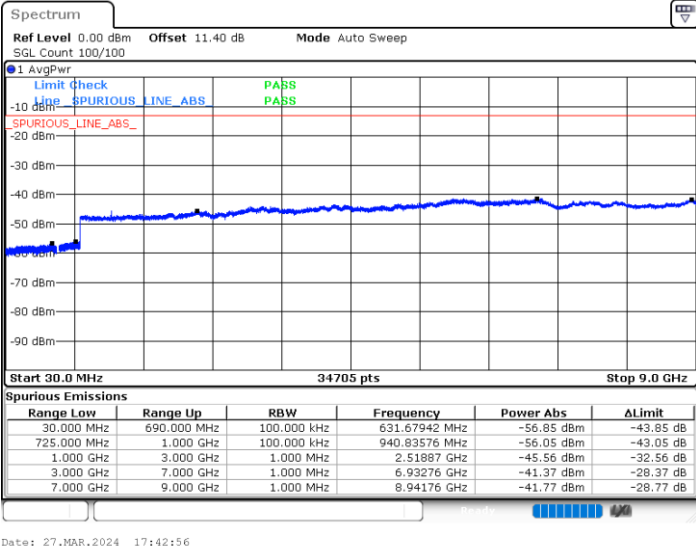




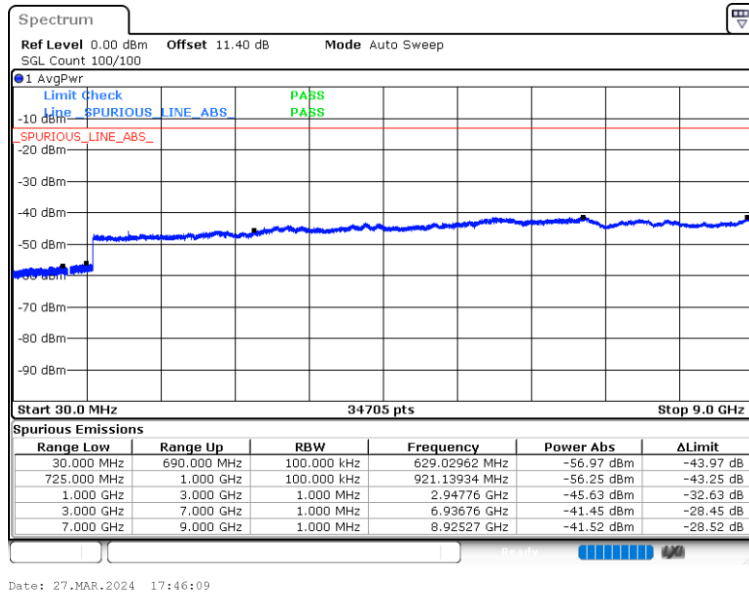
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

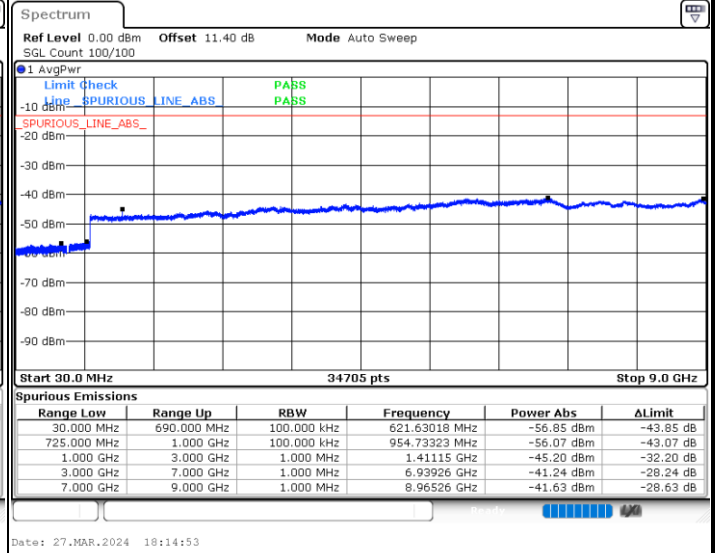
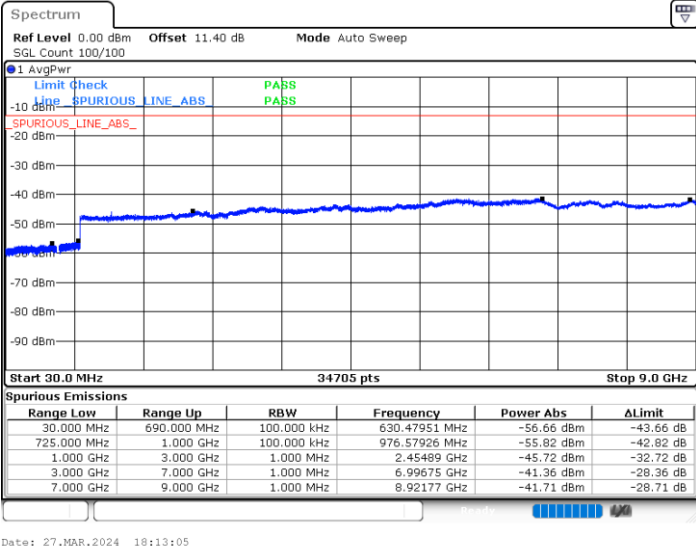




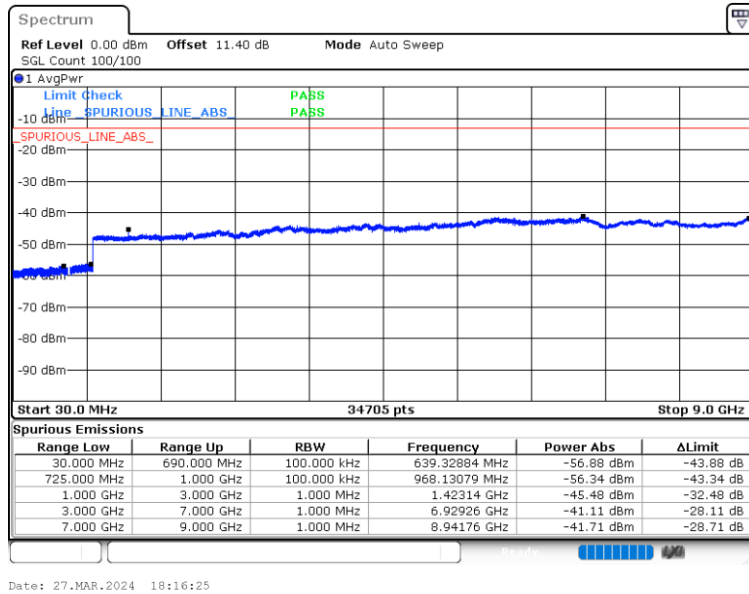
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

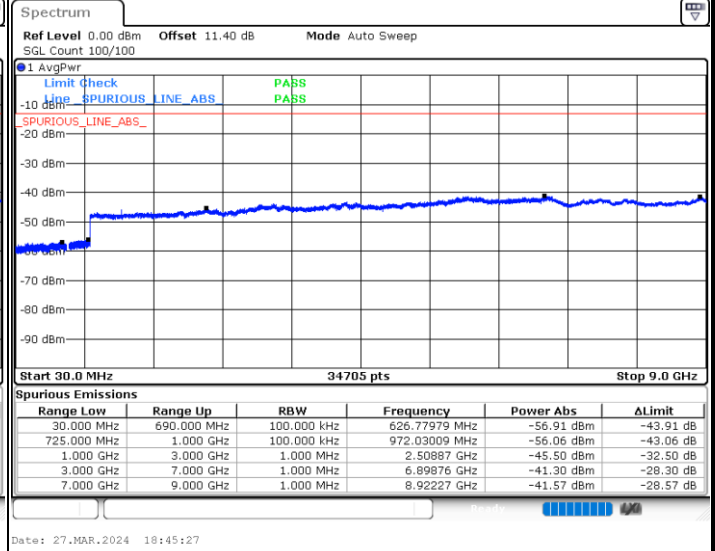
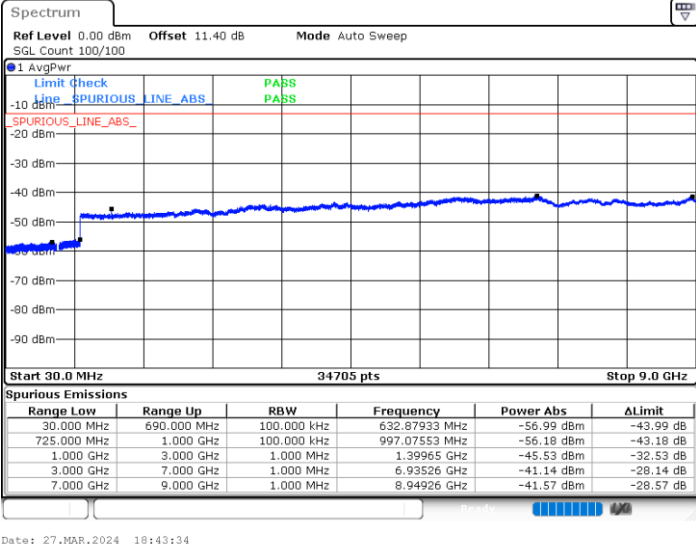




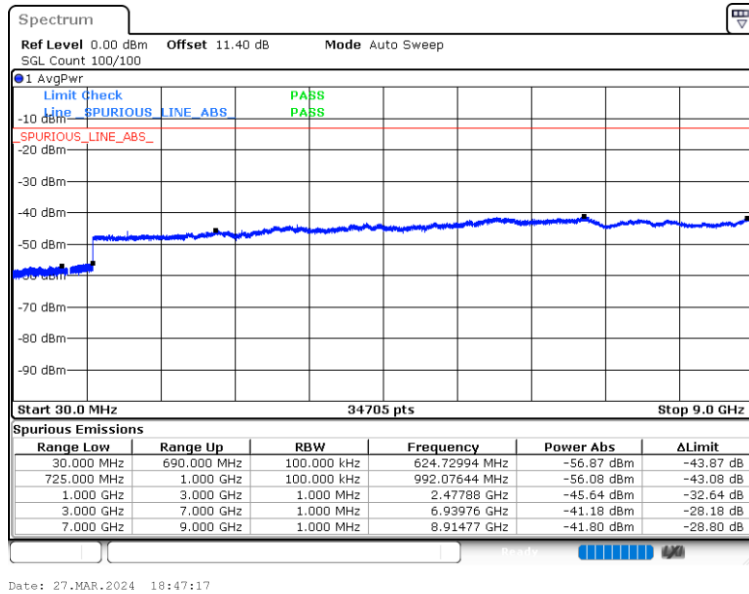
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0153	
30	Normal Voltage	0.0269	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0143	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0168	
-20	Normal Voltage	0.0213	
-30	Normal Voltage	0.0263	
20	Maximum Voltage	0.0222	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0090	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



<Ant. 0>

LTE Band 17

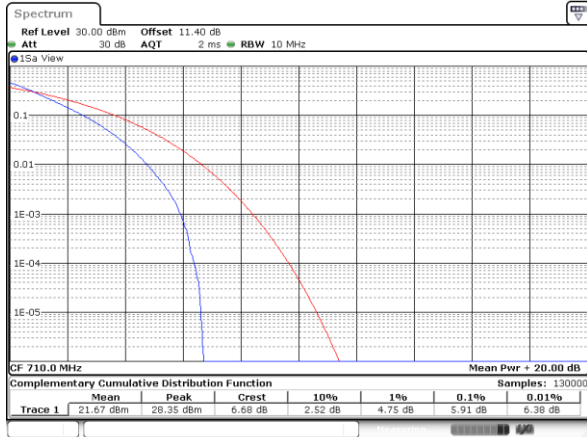
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.91	6.46	6.64	-	PASS



LTE Band 17 / 10MHz / QPSK

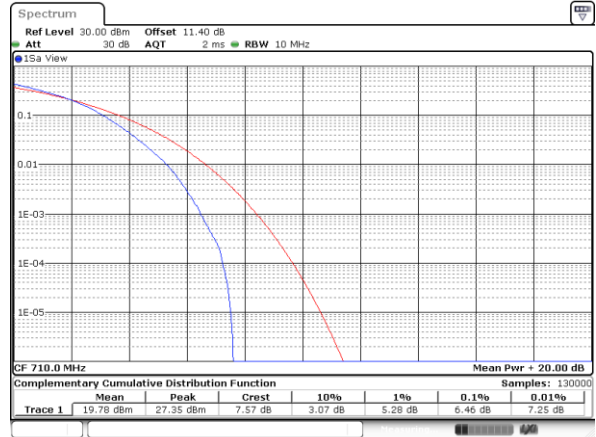
Middle Channel / Full RB



Date: 27.MAR.2024 19:41:59

LTE Band 17 / 10MHz / 16QAM

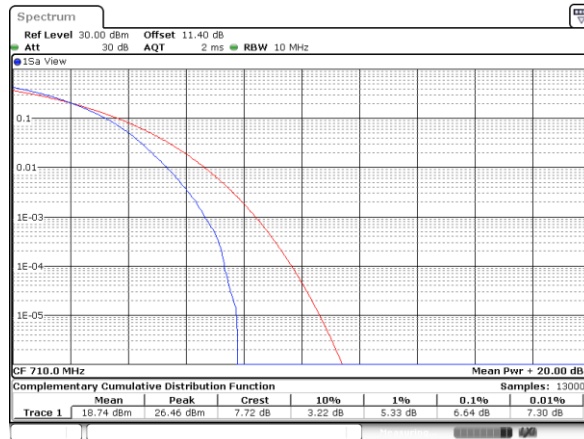
Middle Channel / Full RB



Date: 28.MAR.2024 11:19:20

LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 28.MAR.2024 11:21:52



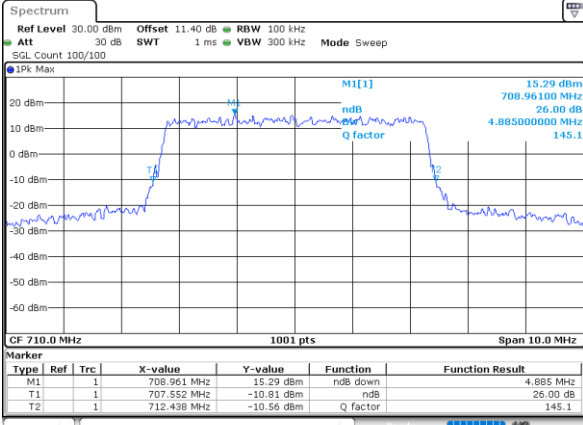
26dB Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.88	4.91	9.76	9.71	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.83	-	9.83	-	-	-	-	-



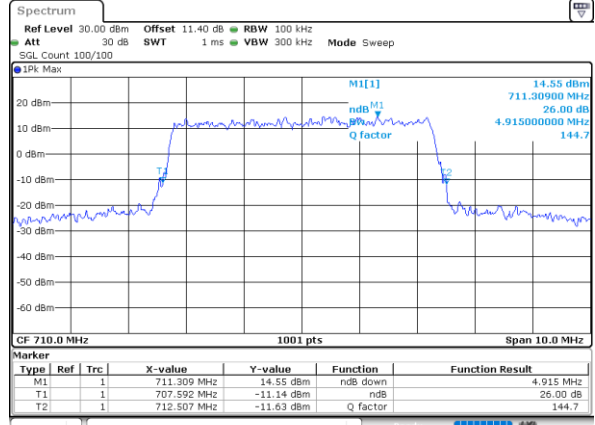
LTE Band 17

Middle Channel / 5MHz / QPSK



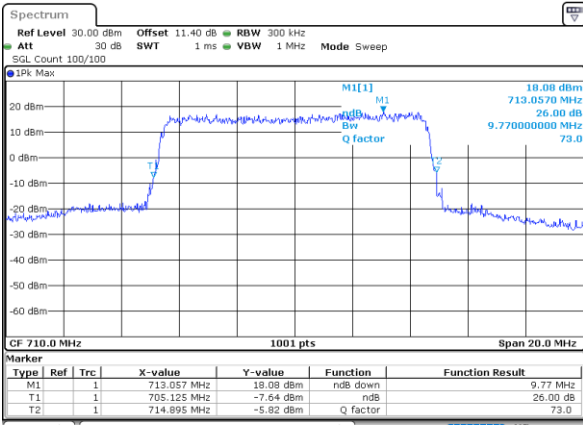
Date: 27_MAR_2024 19:14:05

Middle Channel / 5MHz / 16QAM



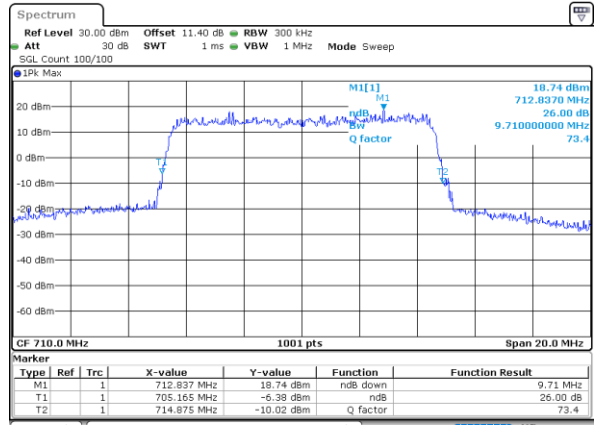
Date: 27_MAR_2024 19:14:56

Middle Channel / 10MHz / QPSK



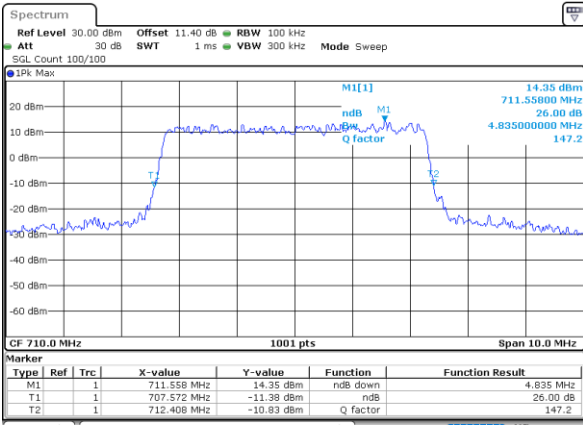
Date: 27_MAR_2024 19:34:17

Middle Channel / 10MHz / 16QAM



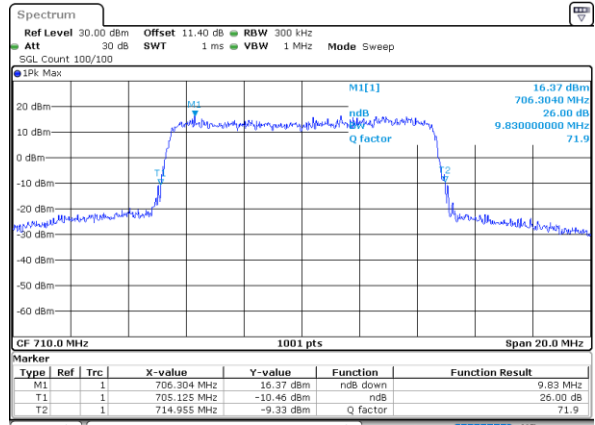
Date: 27_MAR_2024 19:35:04

Middle Channel / 5MHz / 64QAM



Date: 27_MAR_2024 19:15:50

Middle Channel / 10MHz / 64QAM



Date: 27_MAR_2024 19:35:55



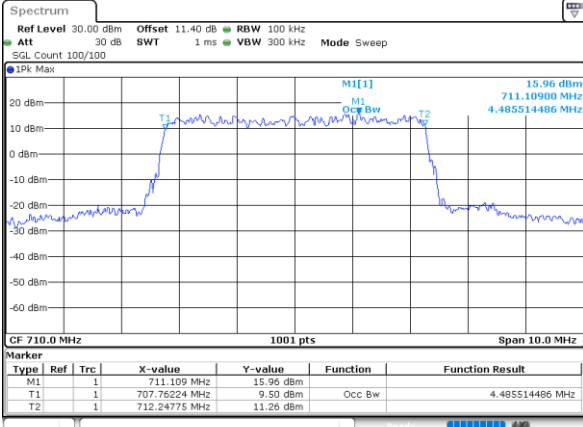
Occupied Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.48	4.51	9.03	9.05	-	-	-	-
Mode	LTE Band 17 : 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	-	9.03	-	-	-	-	-



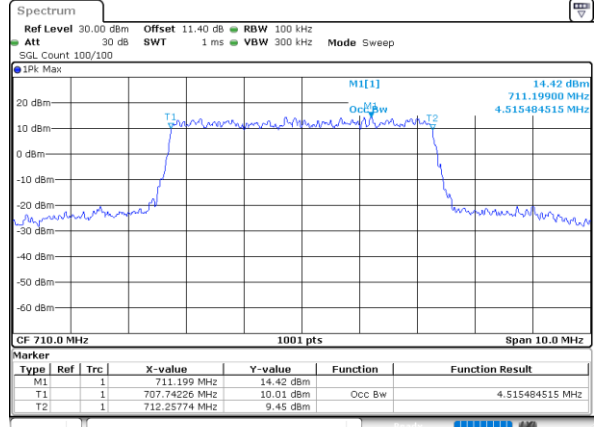
LTE Band 17

Middle Channel / 5MHz / QPSK



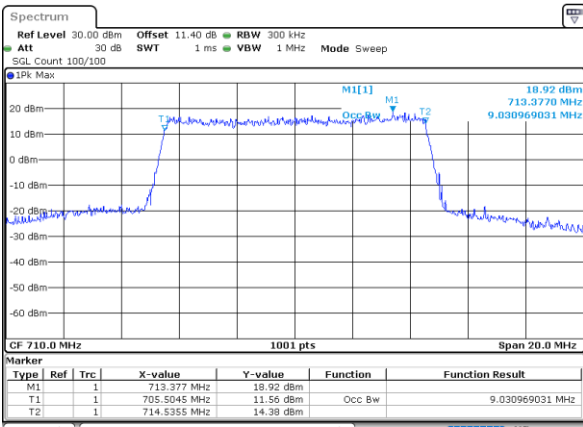
Date: 27_MAR_2024 19:11:16

Middle Channel / 5MHz / 16QAM



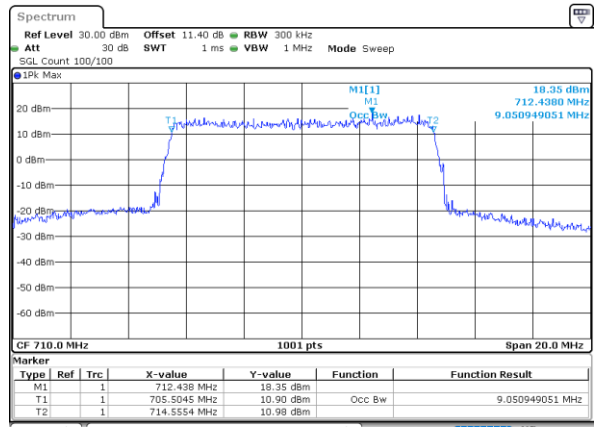
Date: 27_MAR_2024 19:12:14

Middle Channel / 10MHz / QPSK



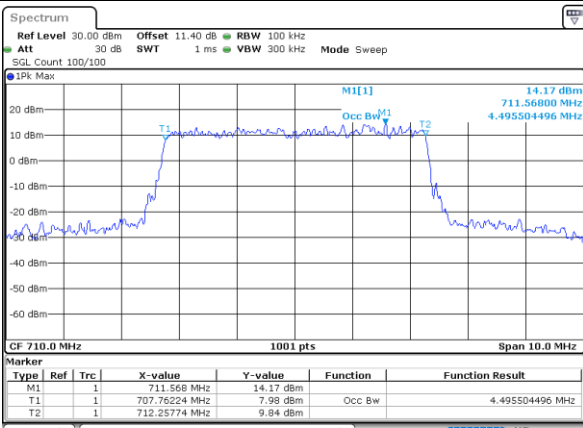
Date: 27_MAR_2024 19:31:48

Middle Channel / 10MHz / 16QAM



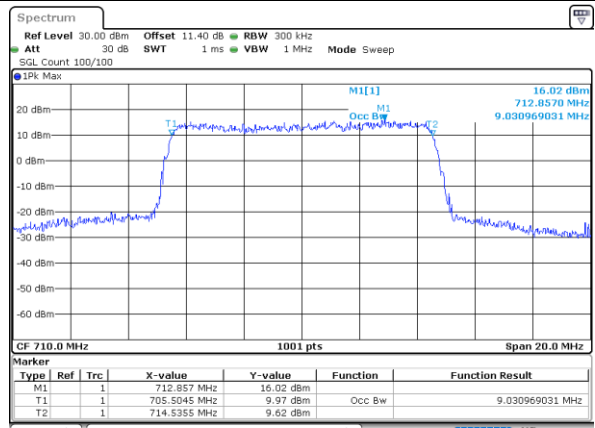
Date: 27_MAR_2024 19:32:33

Middle Channel / 5MHz / 64QAM



Date: 27_MAR_2024 19:13:07

Middle Channel / 10MHz / 64QAM



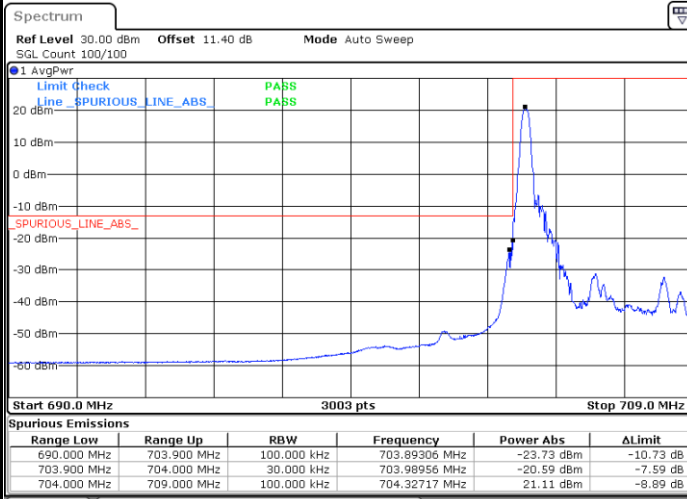
Date: 27_MAR_2024 19:33:30



Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

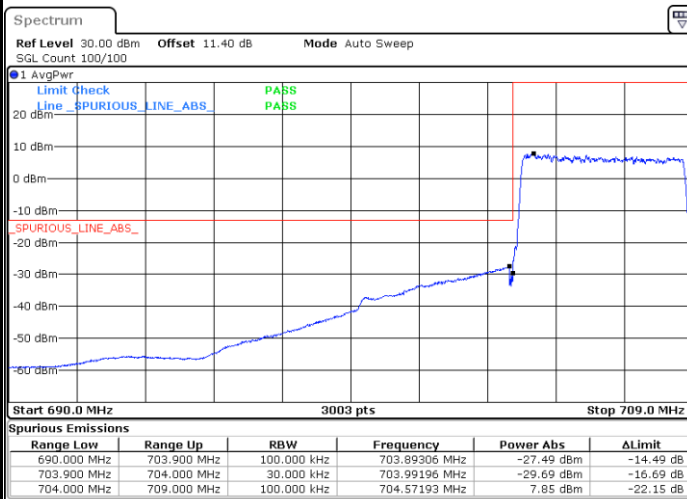
Lowest Band Edge / 1 RB



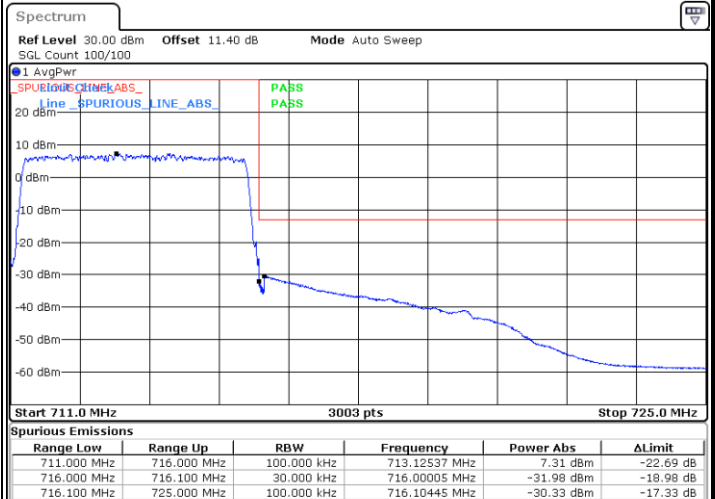
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



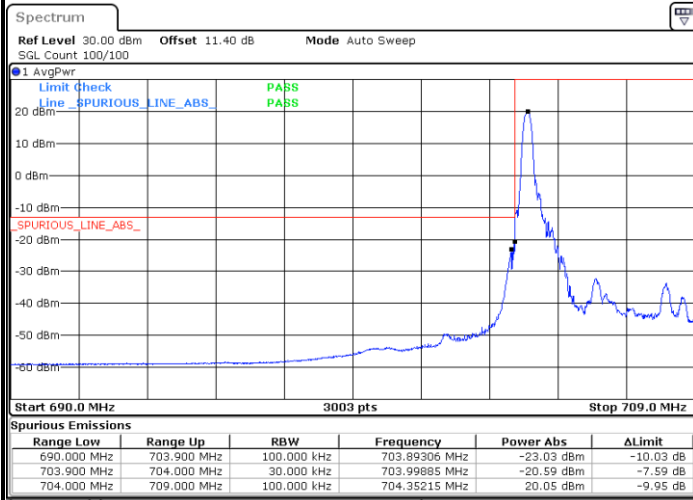
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



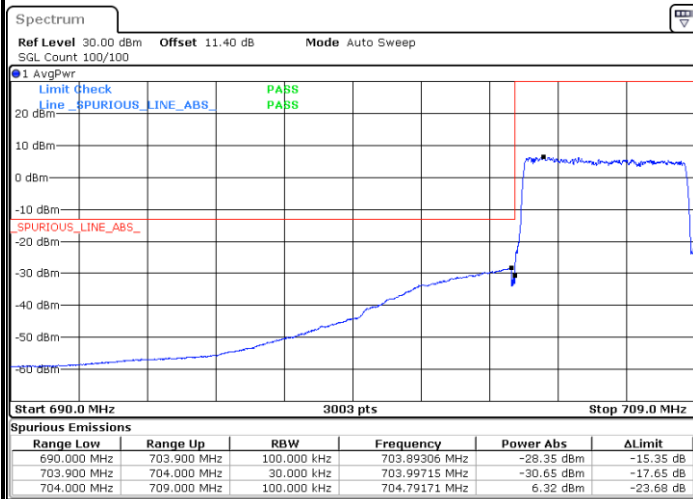
Date: 27.MAR.2024 18:53:11

Highest Band Edge / 1 RB



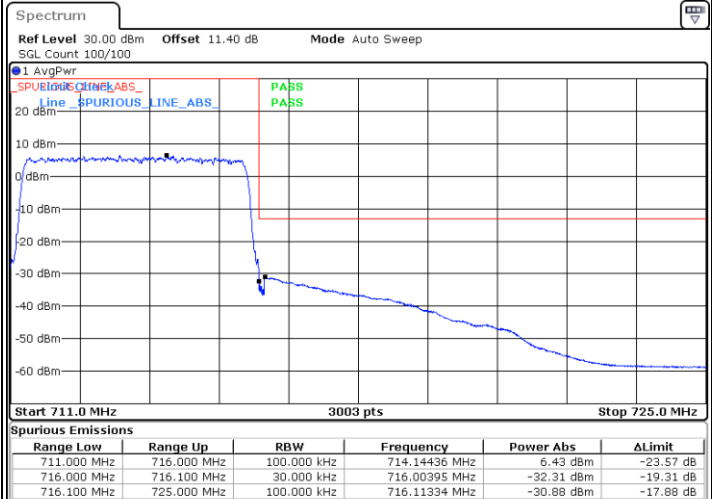
Date: 27.MAR.2024 19:03:18

Lowest Band Edge / Full RB



Date: 27.MAR.2024 18:58:26

Highest Band Edge / Full RB

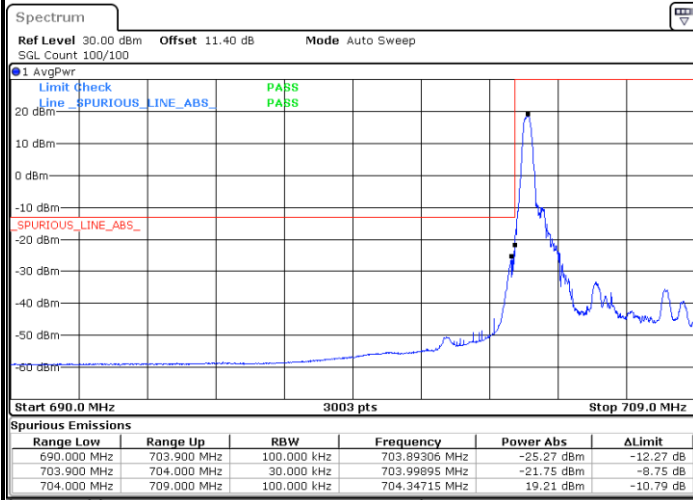


Date: 27.MAR.2024 19:08:14



LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



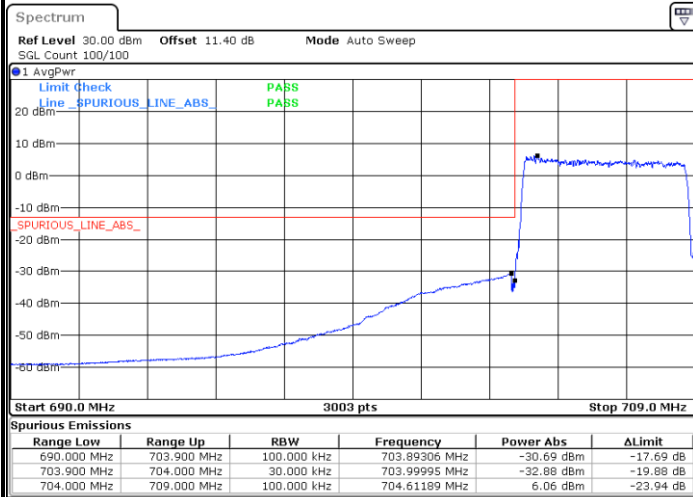
Date: 27.MAR.2024 18:54:56

Highest Band Edge / 1 RB



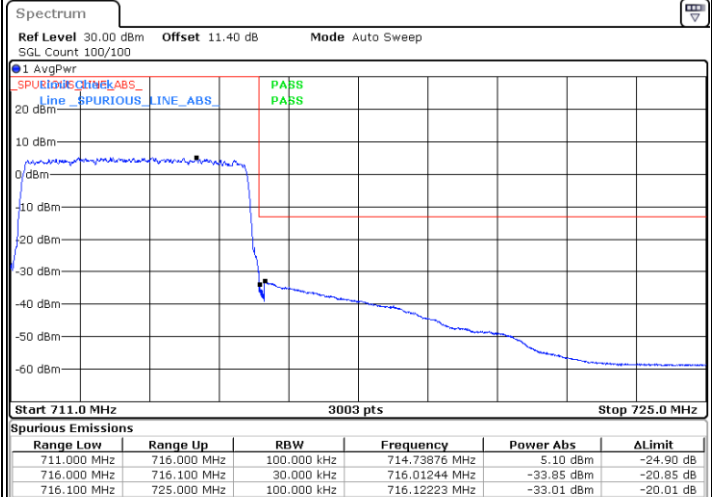
Date: 27.MAR.2024 19:04:58

Lowest Band Edge / Full RB



Date: 27.MAR.2024 18:59:56

Highest Band Edge / Full RB



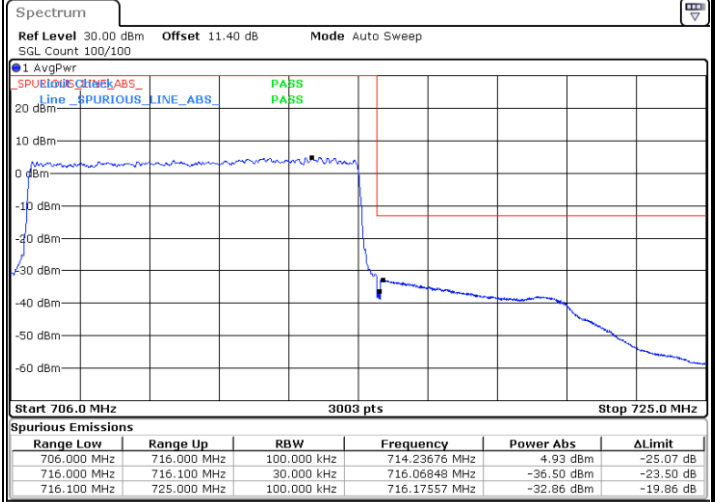
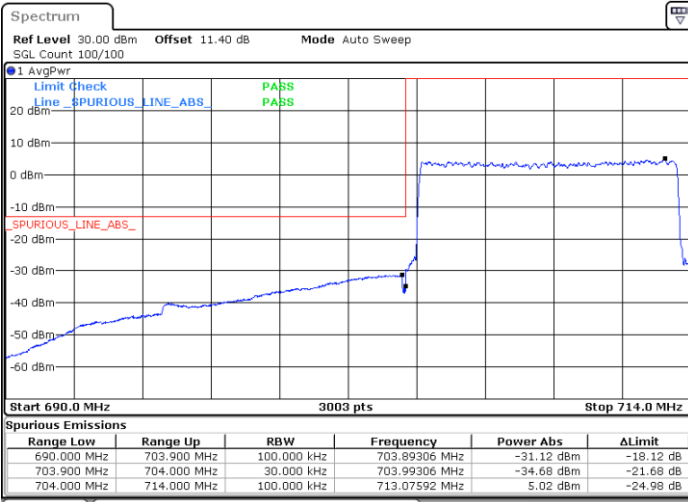
Date: 27.MAR.2024 19:10:06



LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



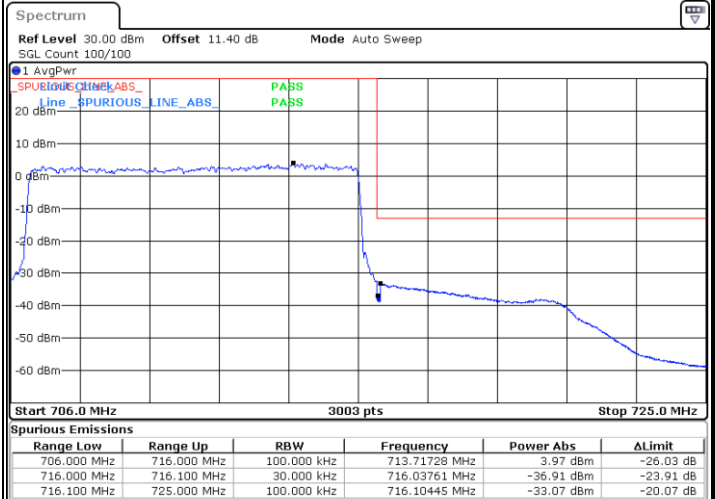
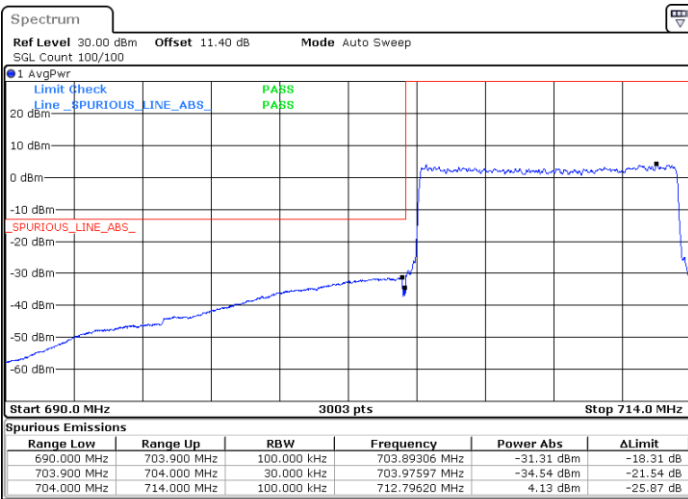
Date: 27.MAR.2024 19:22:40

Date: 27.MAR.2024 19:27:42

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAR.2024 19:24:14

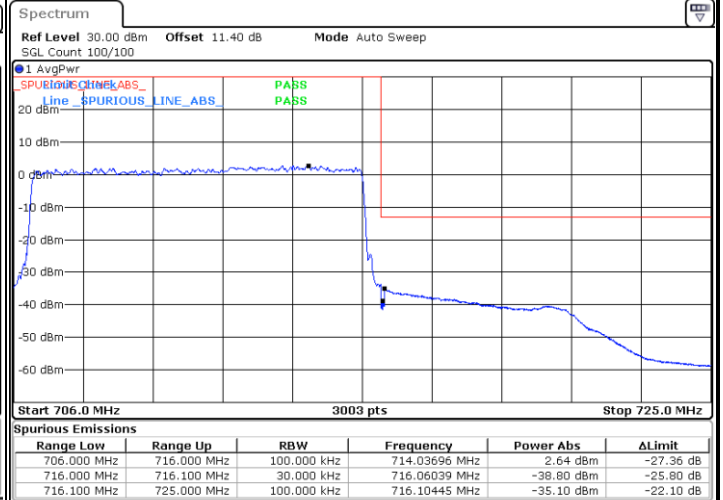
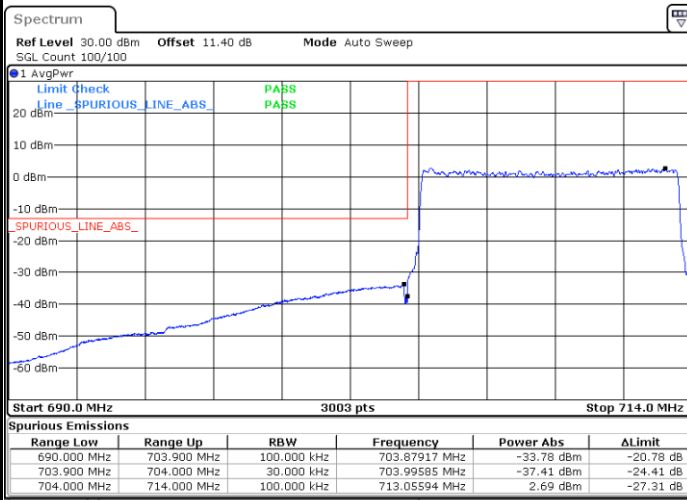
Date: 27.MAR.2024 19:29:24



LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

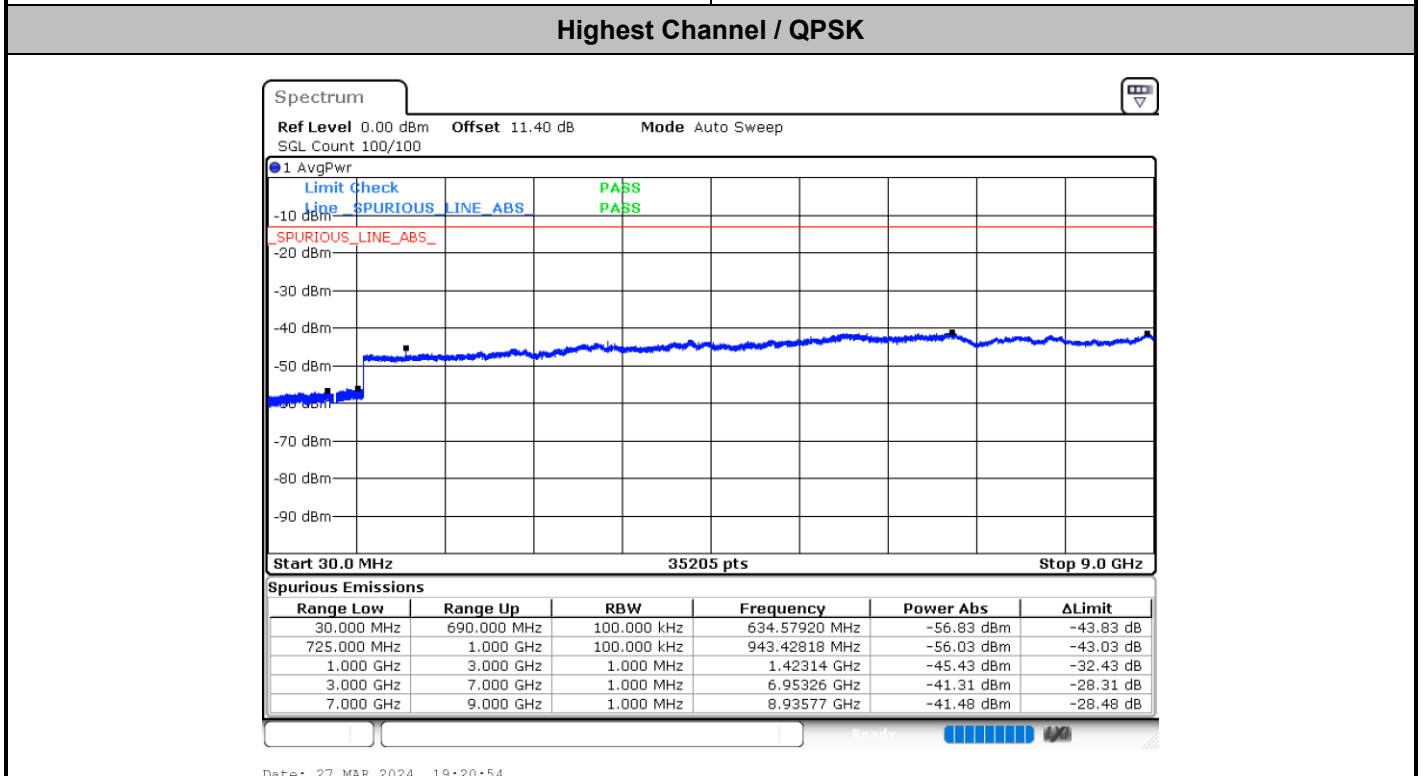
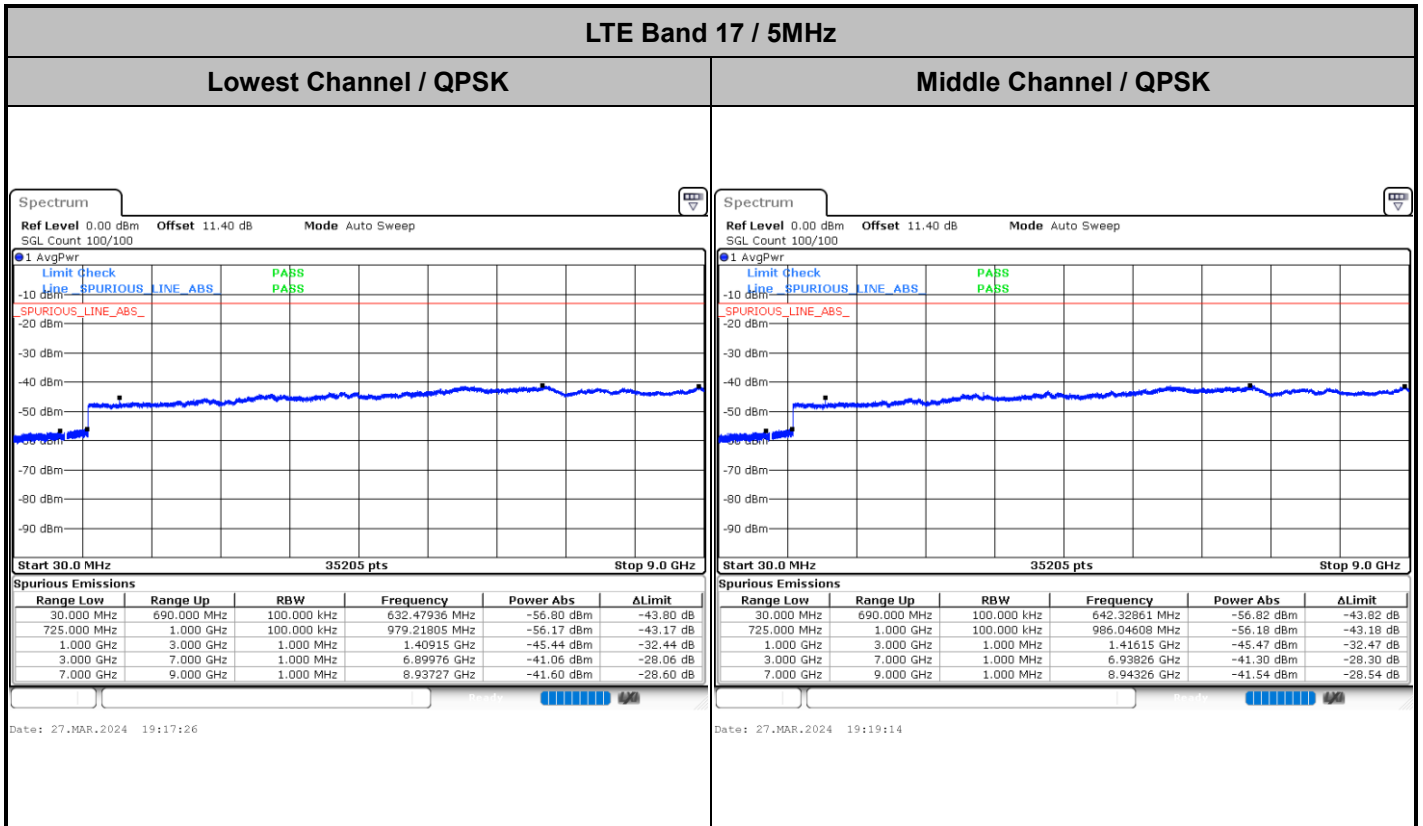


Date: 27.MAR.2024 19:25:57

Date: 27.MAR.2024 19:30:58



Conducted Spurious Emission

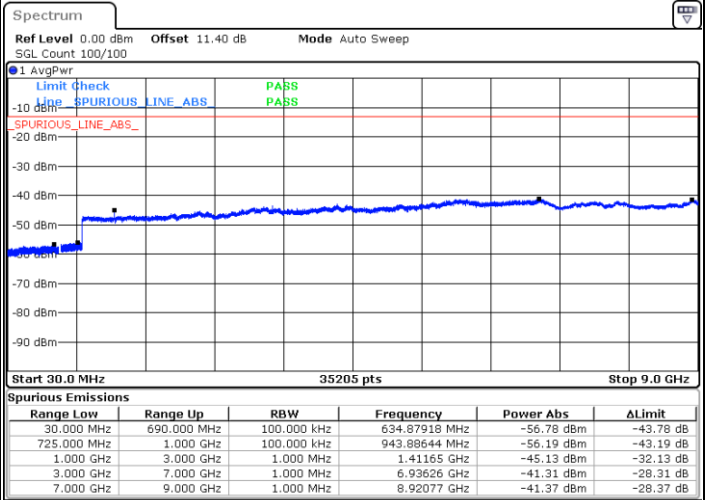
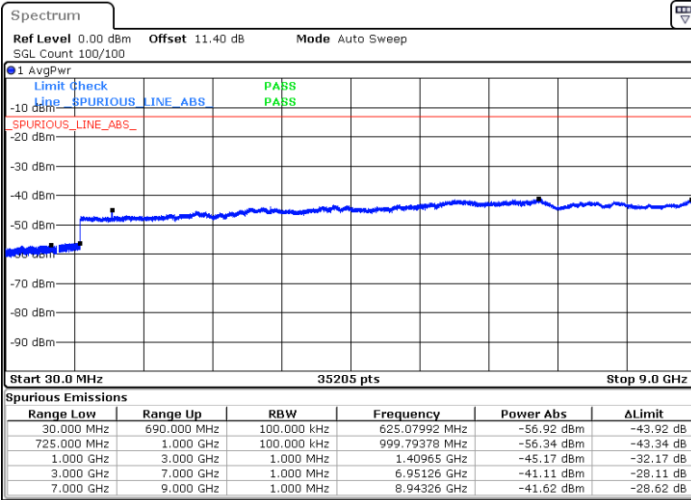




LTE Band 17 / 10MHz

Lowest Channel / QPSK

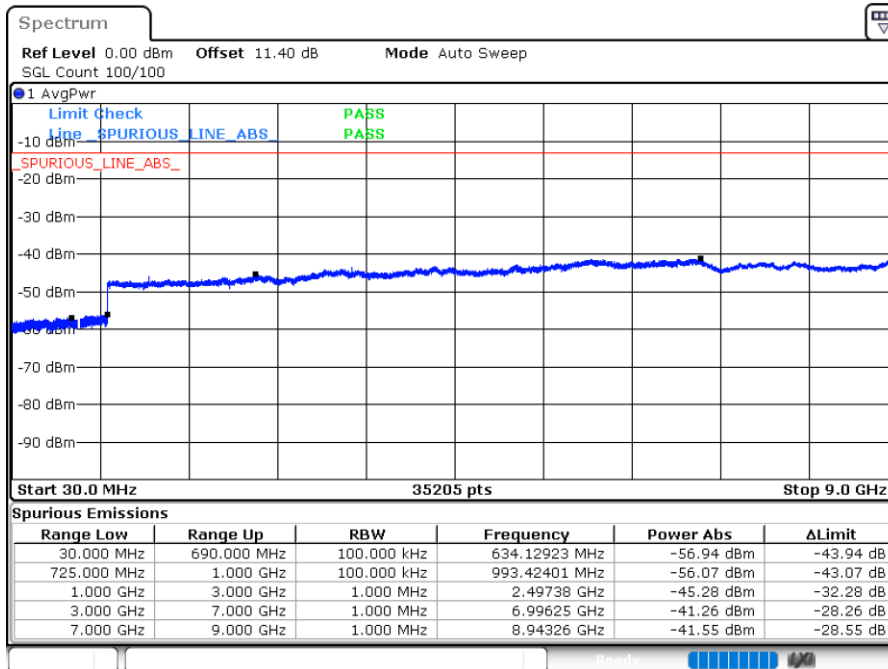
Middle Channel / QPSK



Date: 27.MAR.2024 19:37:44

Date: 27.MAR.2024 19:39:24

Highest Channel / QPSK



Date: 27.MAR.2024 19:41:04



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0111	PASS
40	Normal Voltage	0.0101	
30	Normal Voltage	0.0148	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0080	
-10	Normal Voltage	0.0103	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0093	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

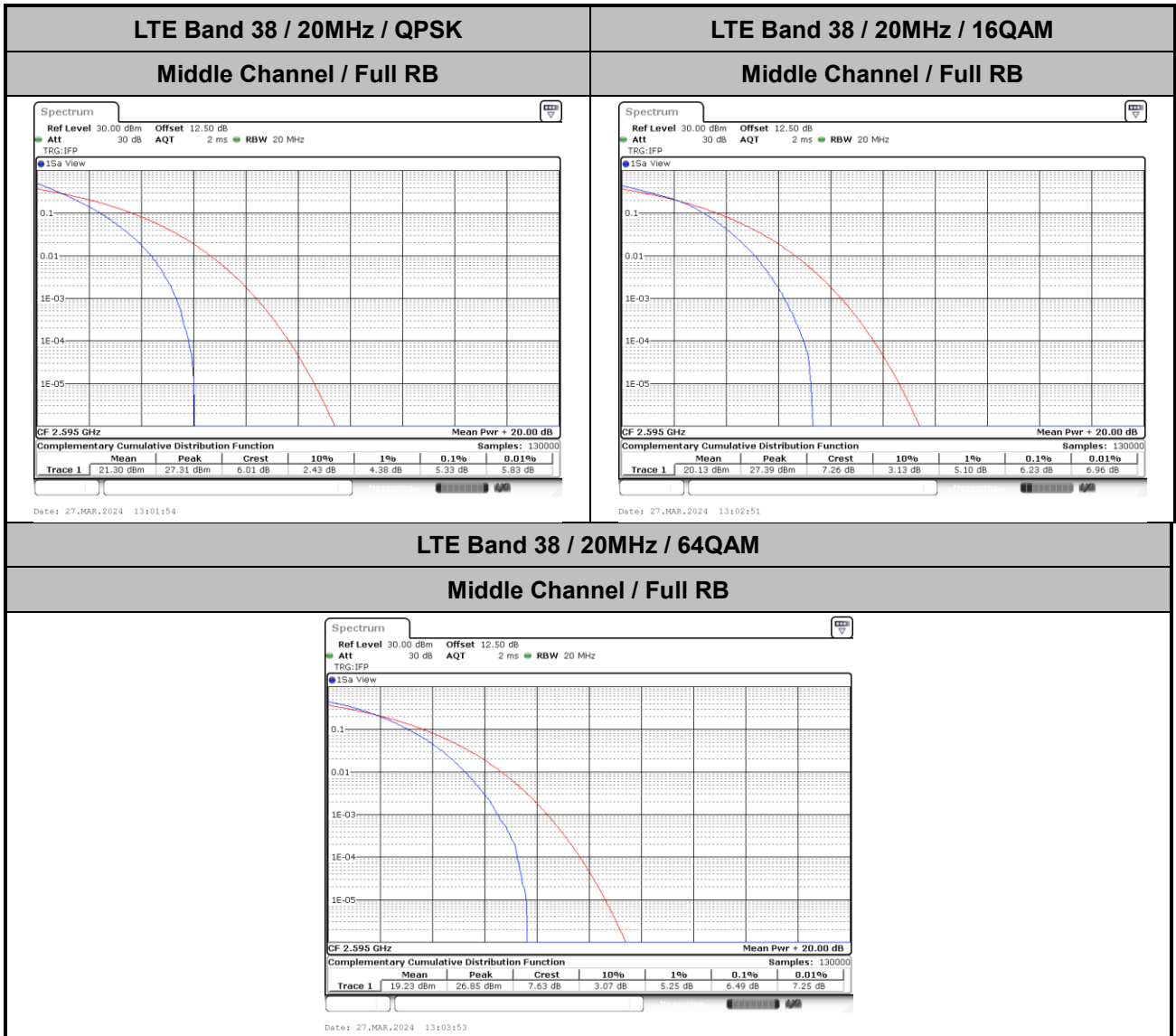


<Ant. 1>

LTE Band 38

Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.33	6.23	6.49	-	PASS





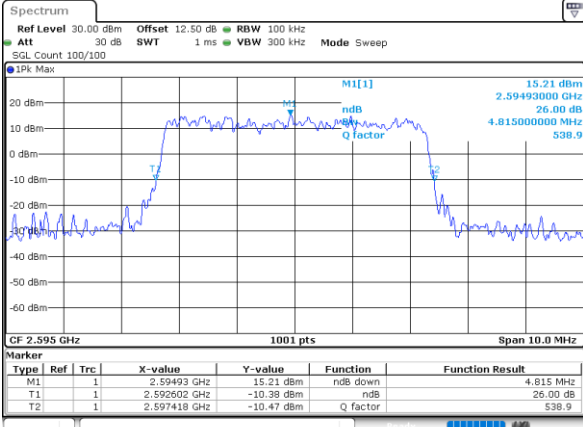
26dB Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.81	4.80	9.78	9.71	14.26	14.14	18.82	18.82
Mode	LTE Band 38 : 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	-	-	-	-	4.84	-	9.71	-	14.20	-	18.74	-



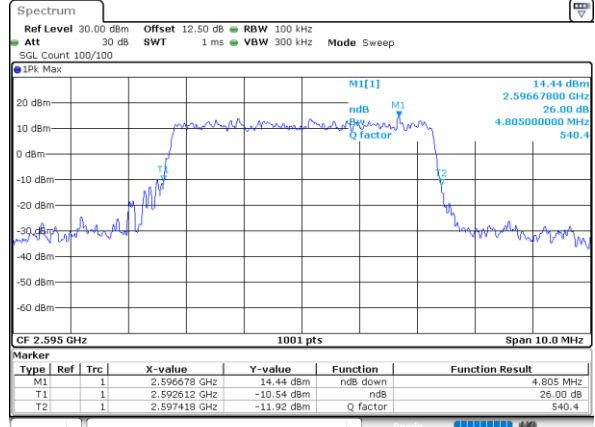
LTE Band 38

Middle Channel / 5MHz / QPSK



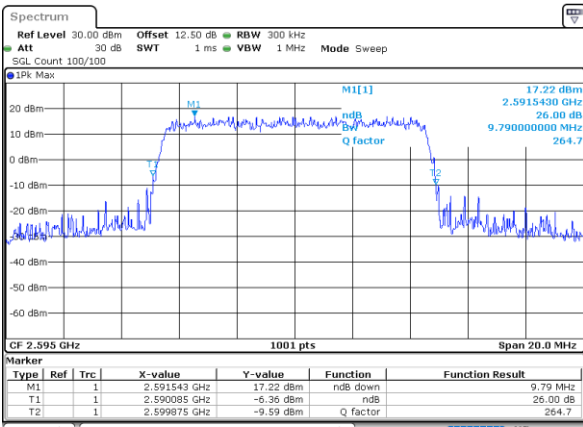
Date: 27_MAR_2024 11:51:59

Middle Channel / 5MHz / 16QAM



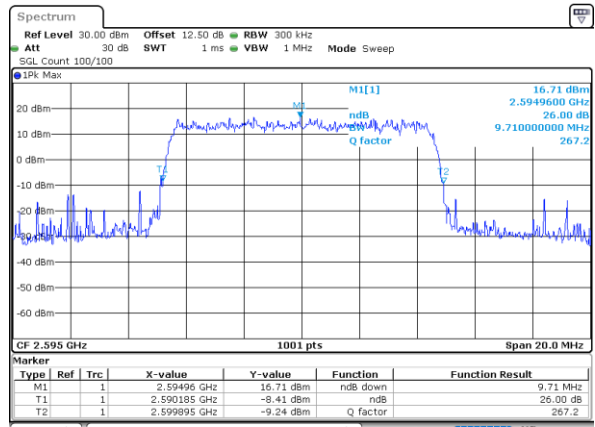
Date: 27_MAR_2024 11:52:58

Middle Channel / 10MHz / QPSK



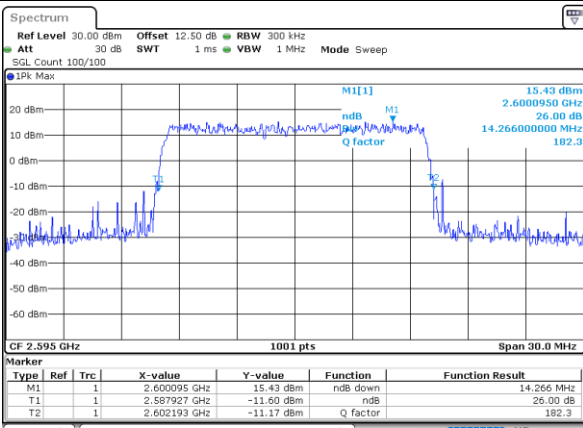
Date: 27_MAR_2024 12:12:06

Middle Channel / 10MHz / 16QAM



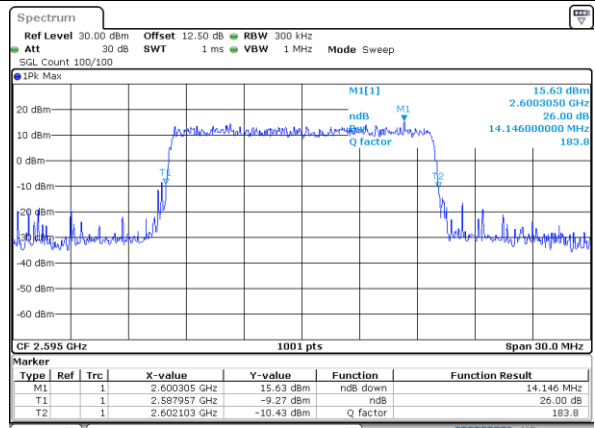
Date: 27_MAR_2024 12:13:24

Middle Channel / 15MHz / QPSK



Date: 27_MAR_2024 12:33:29

Middle Channel / 15MHz / 16QAM

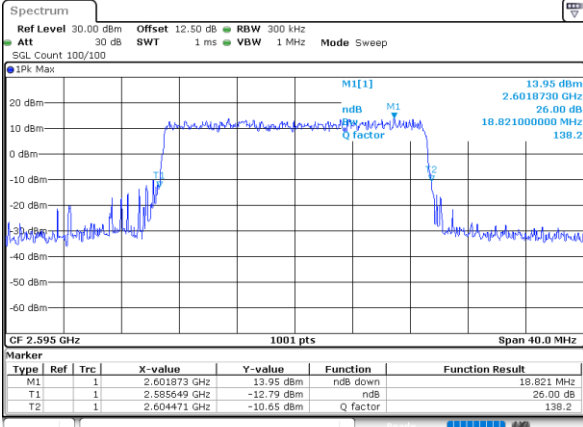


Date: 27_MAR_2024 12:34:19



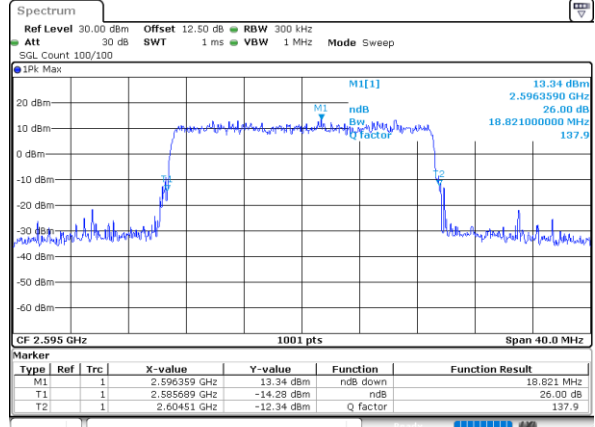
LTE Band 38

Middle Channel / 20MHz / QPSK



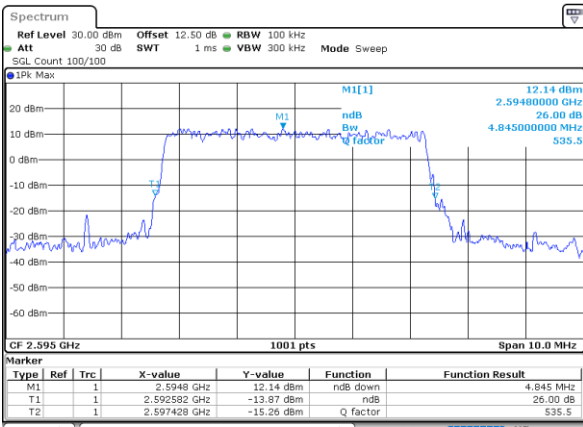
Date: 27_MAR_2024 12:54:26

Middle Channel / 20MHz / 16QAM



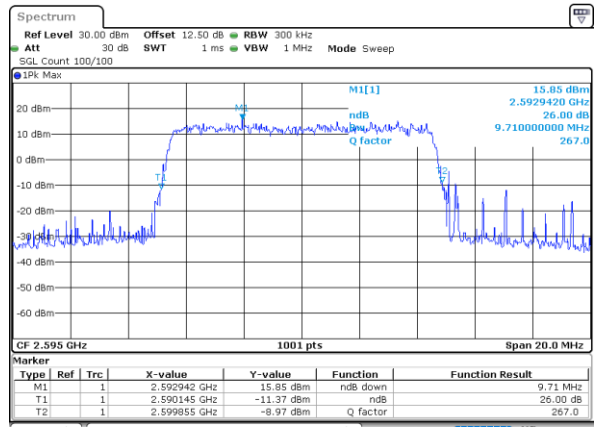
Date: 27_MAR_2024 12:55:16

Middle Channel / 5MHz / 64QAM



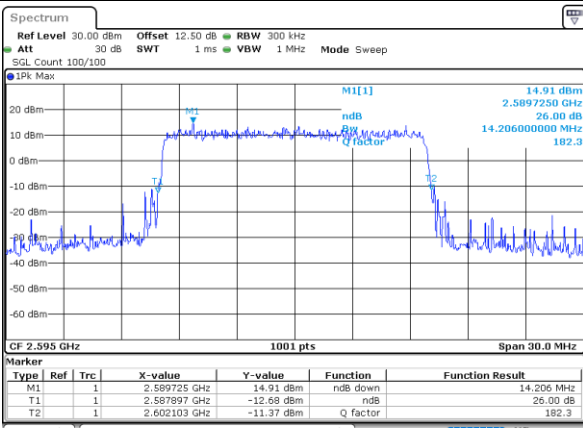
Date: 27_MAR_2024 11:53:52

Middle Channel / 10MHz / 64QAM



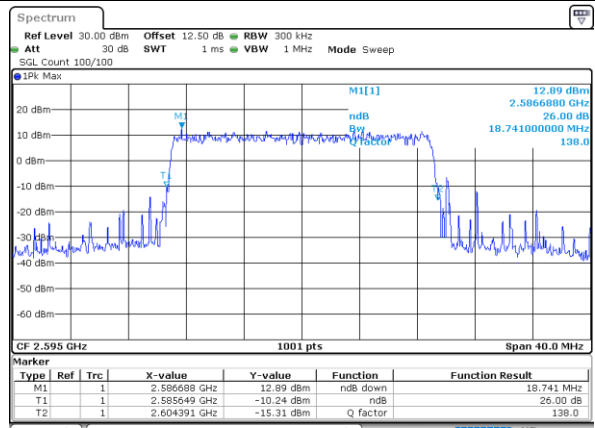
Date: 27_MAR_2024 12:14:23

Middle Channel / 15MHz / 64QAM



Date: 27_MAR_2024 12:35:20

Middle Channel / 20MHz / 64QAM



Date: 27_MAR_2024 12:56:05



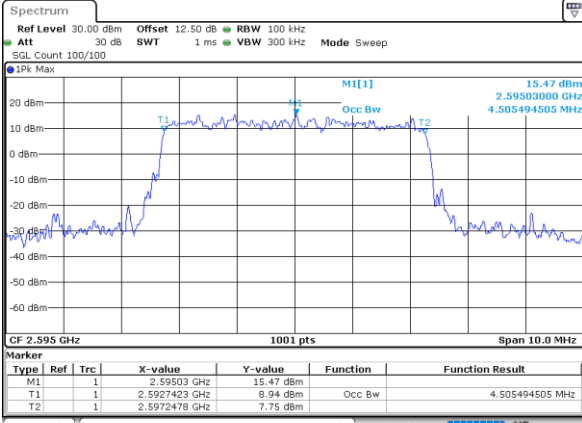
Occupied Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.50	4.49	9.03	9.01	13.45	13.48	17.86	17.86
Mode	LTE Band 38 : 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	-	8.99	-	13.48	-	17.86	-



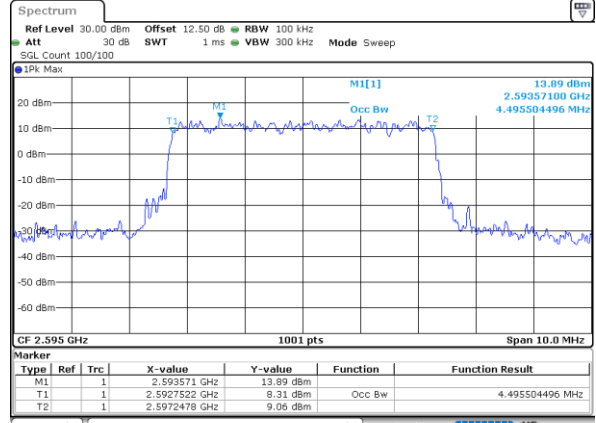
LTE Band 38

Middle Channel / 5MHz / QPSK



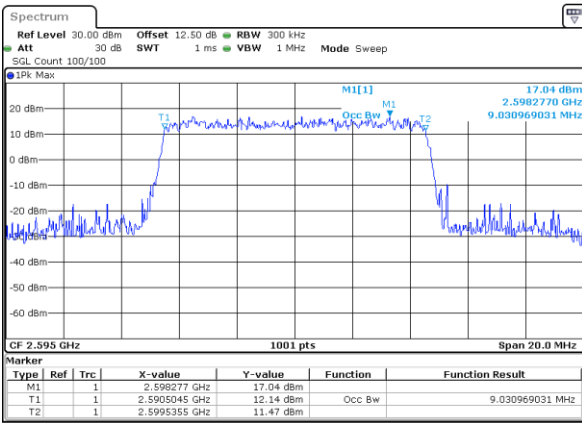
Date: 27_MAR_2024 11:49:13

Middle Channel / 5MHz / 16QAM



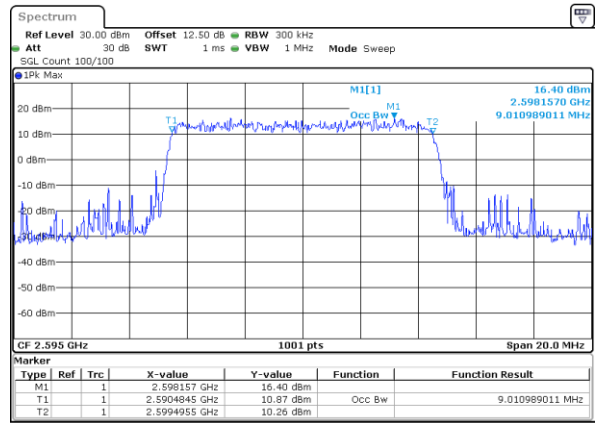
Date: 27_MAR_2024 11:50:16

Middle Channel / 10MHz / QPSK



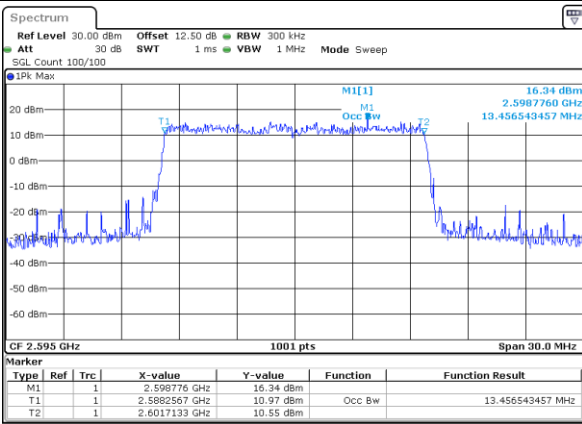
Date: 27_MAR_2024 12:09:46

Middle Channel / 10MHz / 16QAM



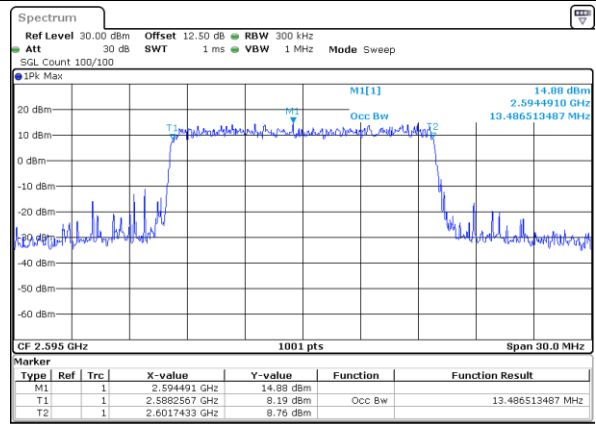
Date: 27_MAR_2024 12:10:40

Middle Channel / 15MHz / QPSK



Date: 27_MAR_2024 12:30:52

Middle Channel / 15MHz / 16QAM

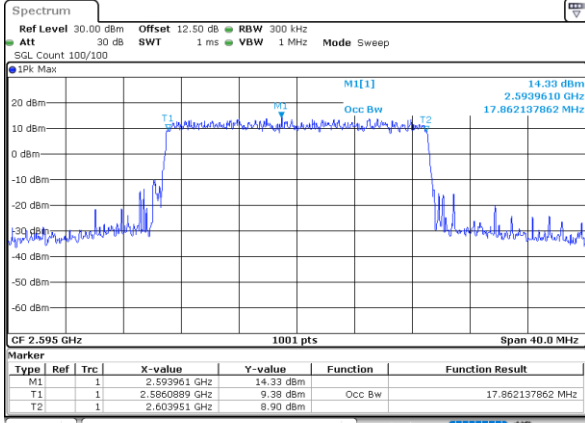


Date: 27_MAR_2024 12:31:43



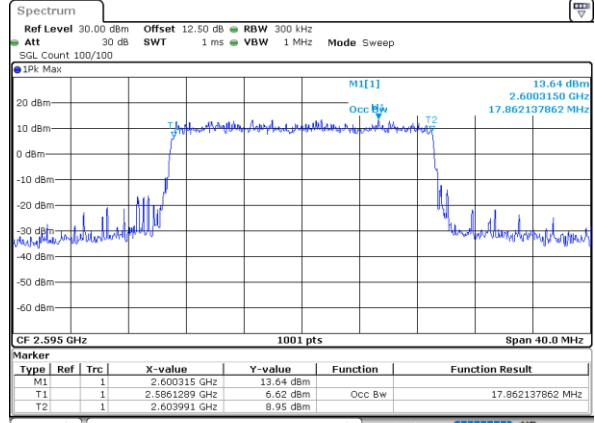
LTE Band 38

Middle Channel / 20MHz / QPSK



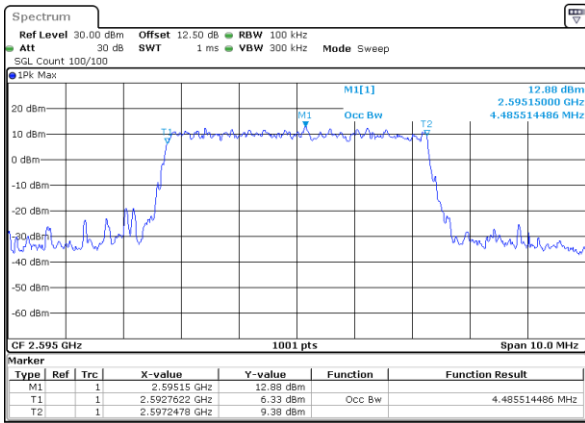
Date: 27_MAR_2024 12:51:36

Middle Channel / 20MHz / 16QAM



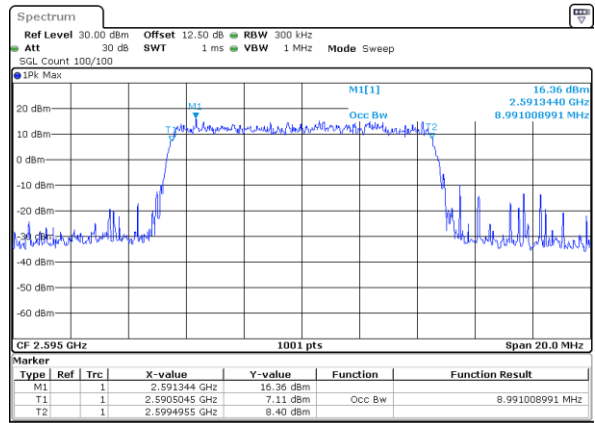
Date: 27_MAR_2024 12:52:26

Middle Channel / 5MHz / 64QAM



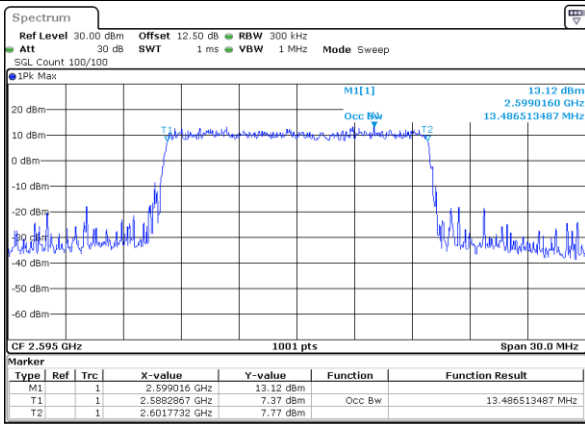
Date: 27_MAR_2024 11:51:11

Middle Channel / 10MHz / 64QAM



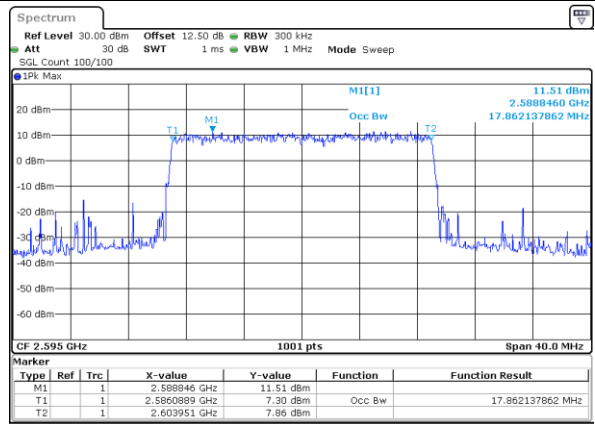
Date: 27_MAR_2024 12:11:39

Middle Channel / 15MHz / 64QAM



Date: 27_MAR_2024 12:32:36

Middle Channel / 20MHz / 64QAM



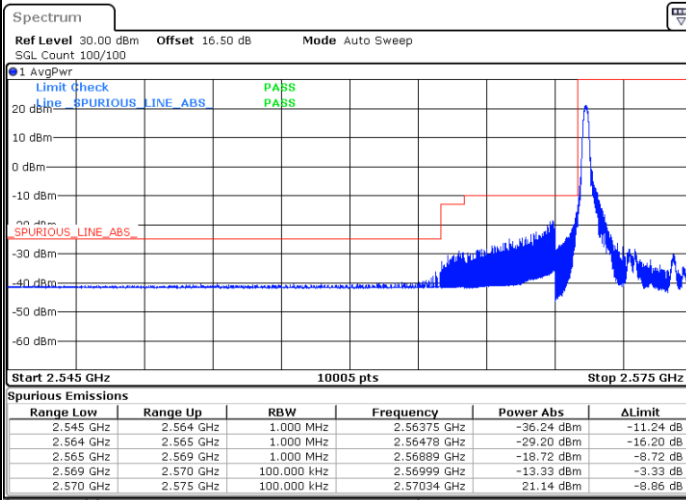
Date: 27_MAR_2024 12:53:26



Conducted Band Edge

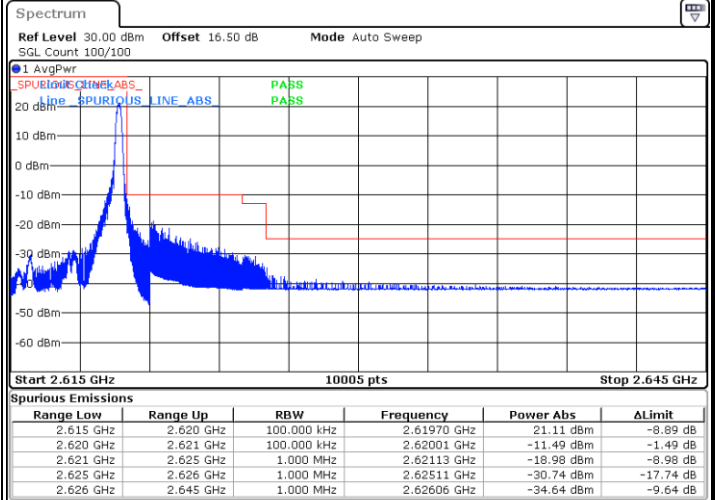
LTE Band 38 / 5MHz / QPSK

Lowest Band Edge / 1 RB



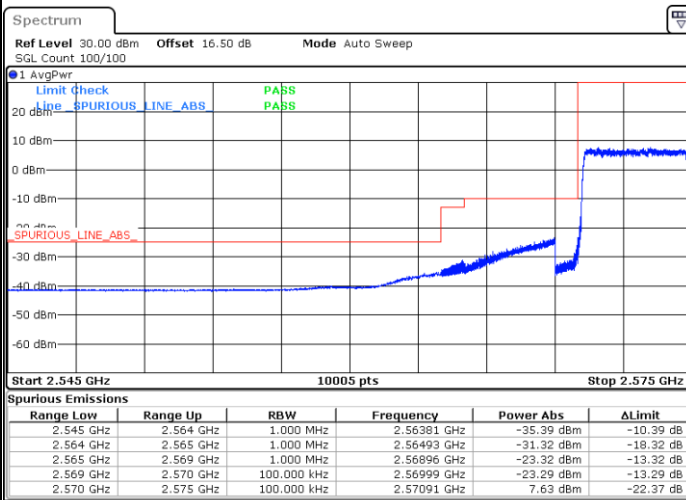
Date: 27.MAR.2024 11:28:26

Highest Band Edge / 1 RB



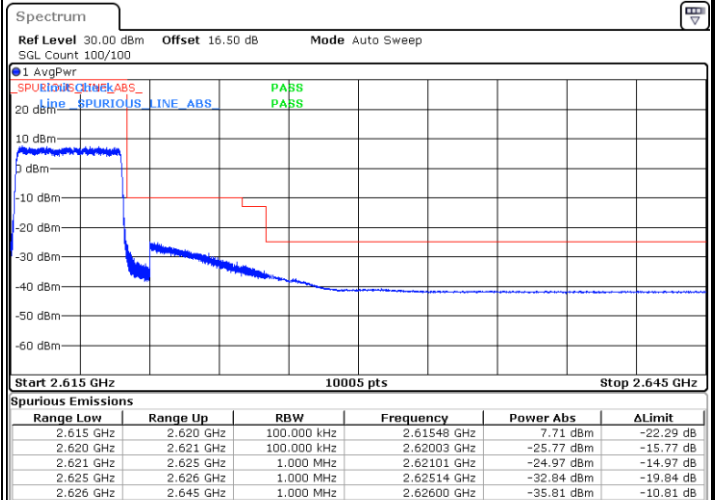
Date: 27.MAR.2024 11:44:24

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:33:50

Highest Band Edge / Full RB

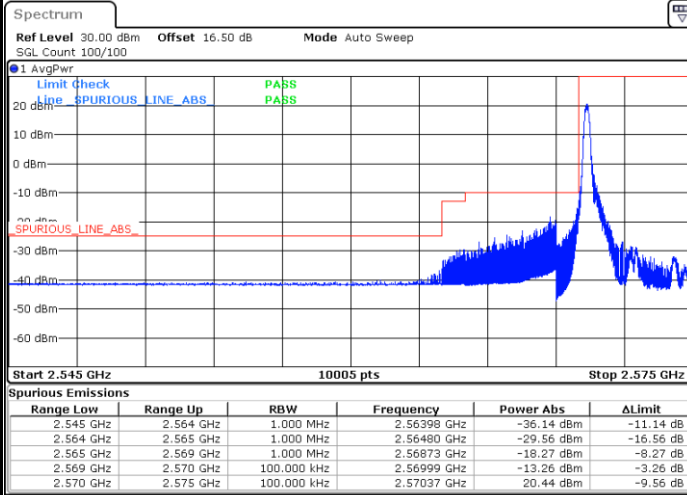


Date: 27.MAR.2024 11:39:03



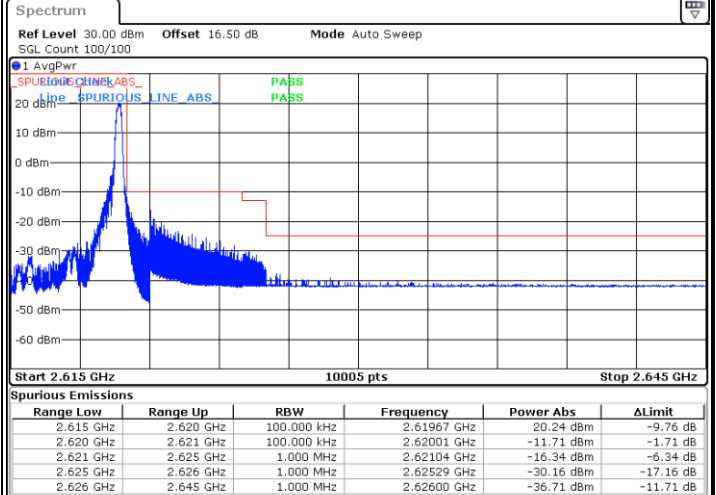
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



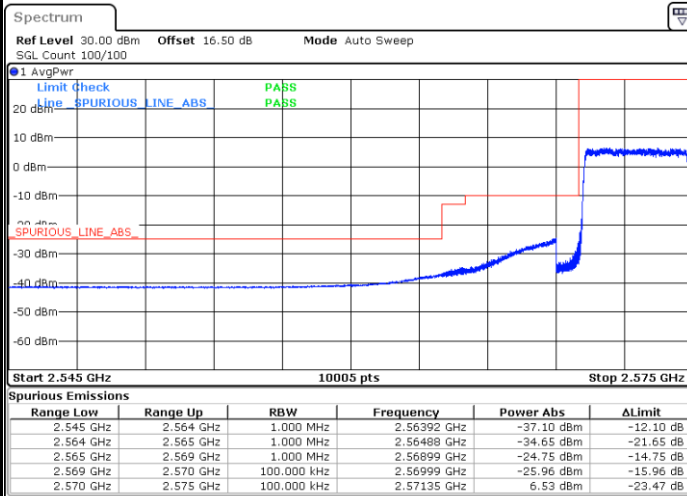
Date: 27.MAR.2024 11:30:11

Highest Band Edge / 1 RB



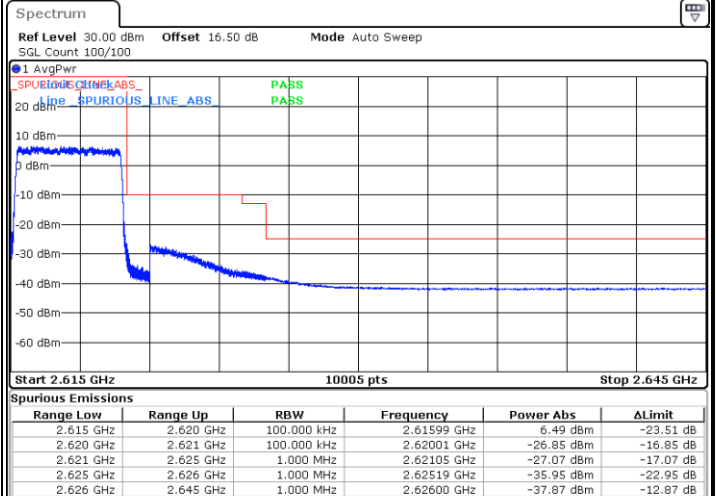
Date: 27.MAR.2024 11:46:14

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:35:31

Highest Band Edge / Full RB

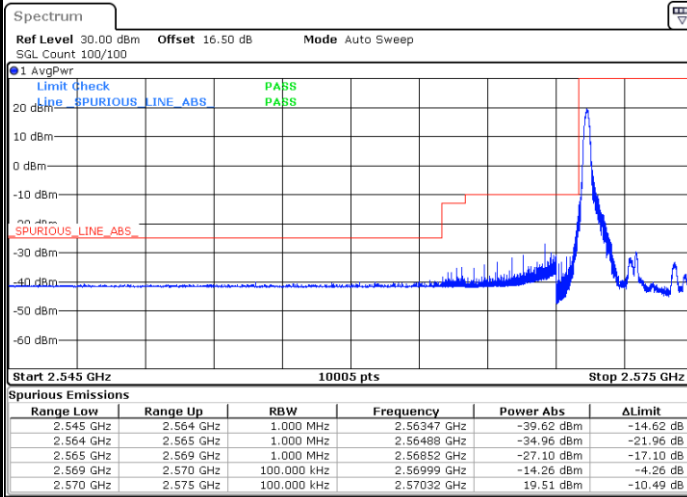


Date: 27.MAR.2024 11:40:57



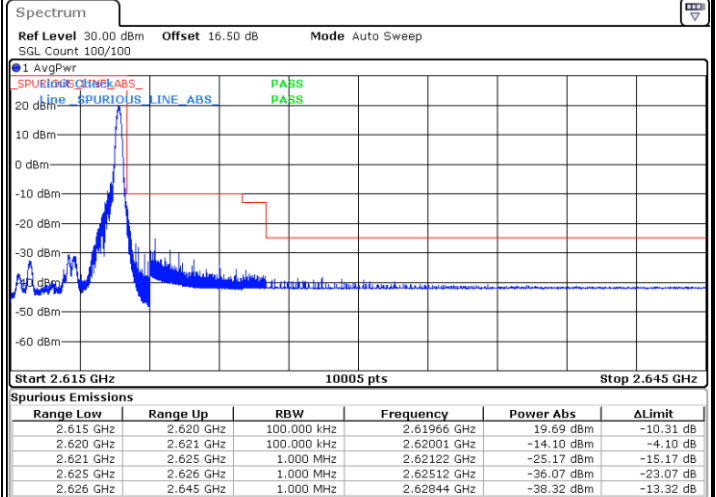
LTE Band 38 / 5MHz / 64QAM

Lowest Band Edge / 1RB



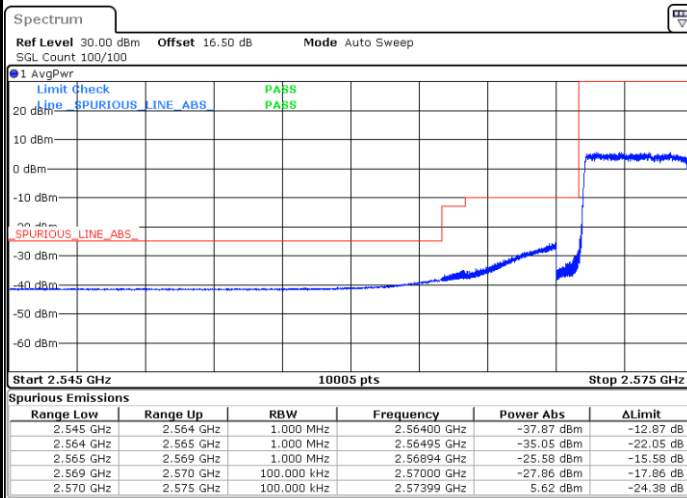
Date: 27.MAR.2024 11:32:01

Highest Band Edge / 1 RB



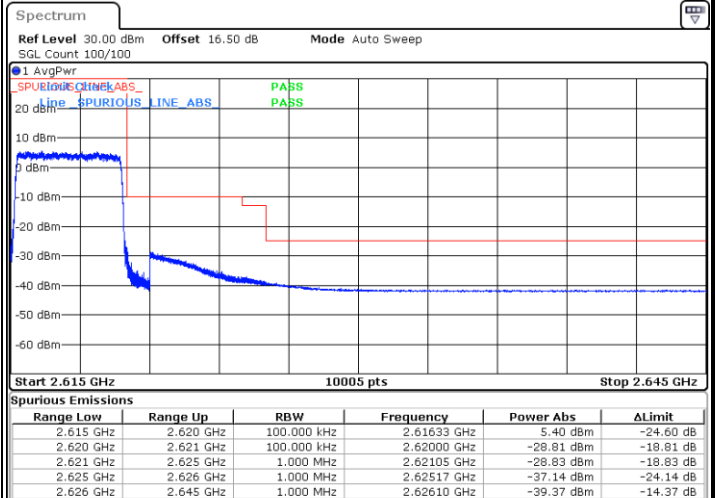
Date: 27.MAR.2024 11:47:59

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:37:15

Highest Band Edge / Full RB

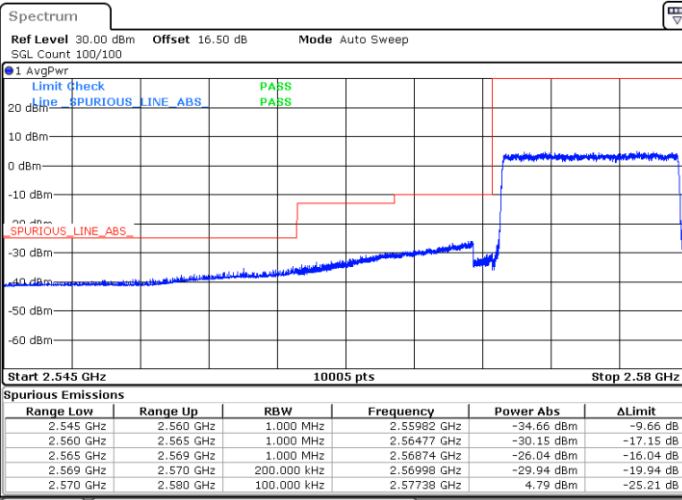


Date: 27.MAR.2024 11:42:38



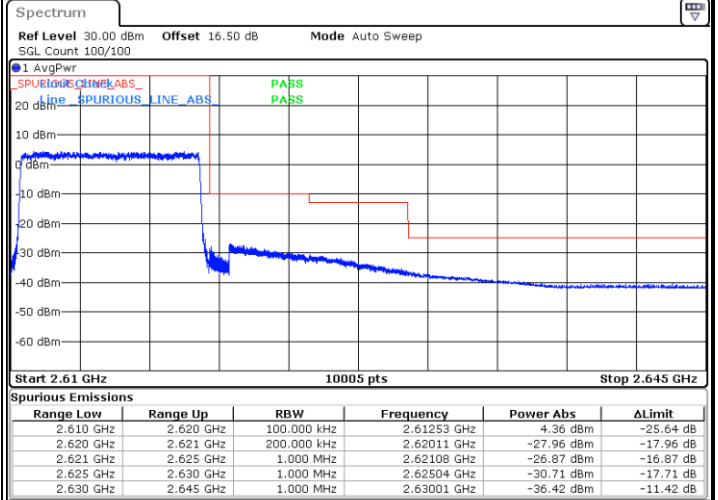
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 27.MAR.2024 12:00:38

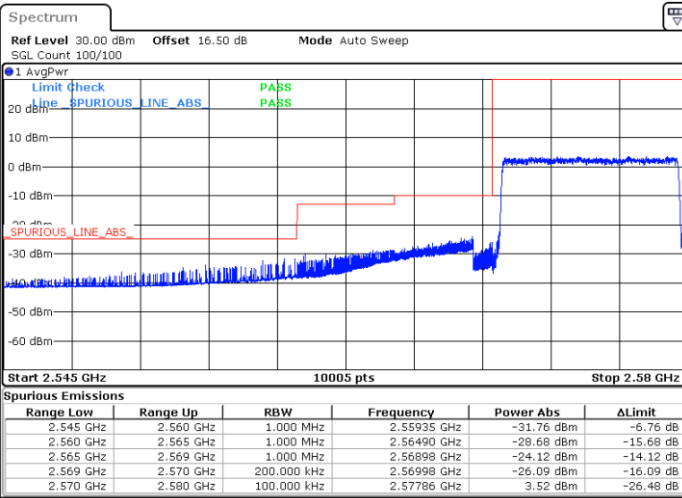
Highest Band Edge / Full RB



Date: 27.MAR.2024 12:05:40

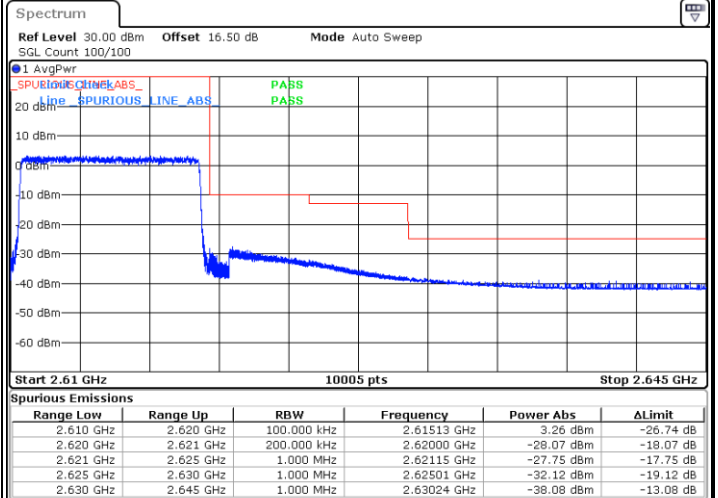
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 12:02:24

Highest Band Edge / Full RB



Date: 27.MAR.2024 12:07:15



LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

