

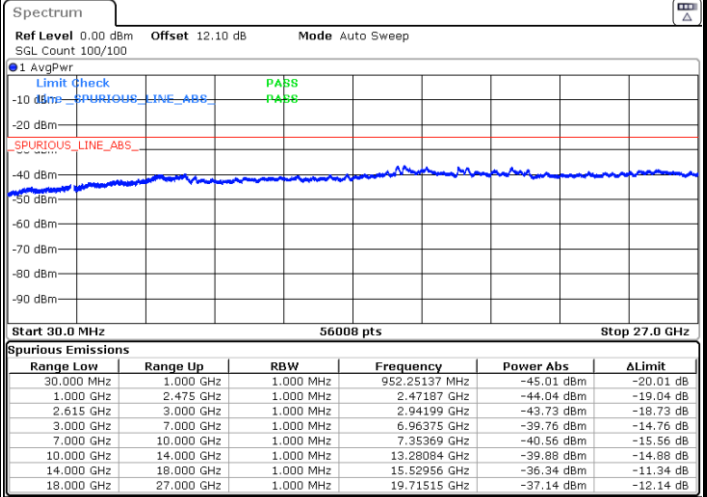
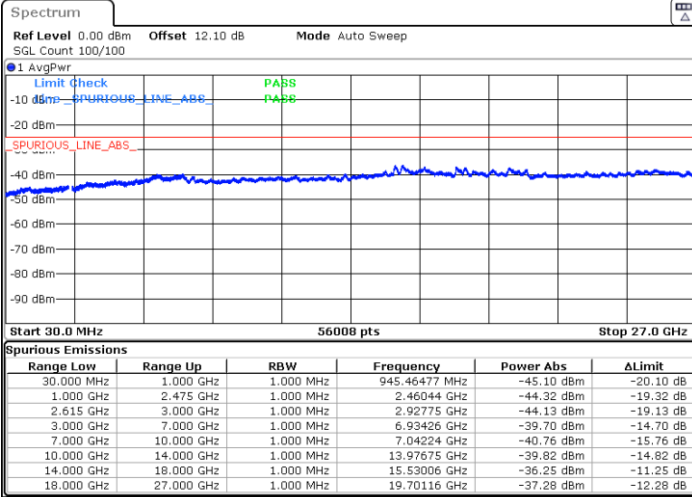


LTE Band 7C / 20MHz+15MHz

QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0

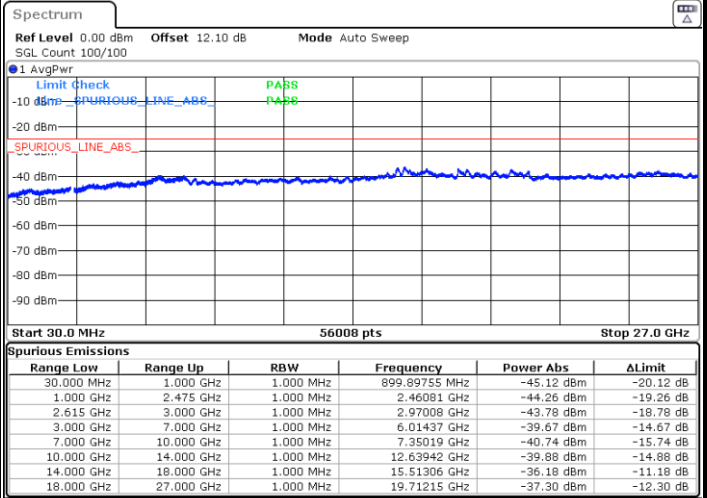
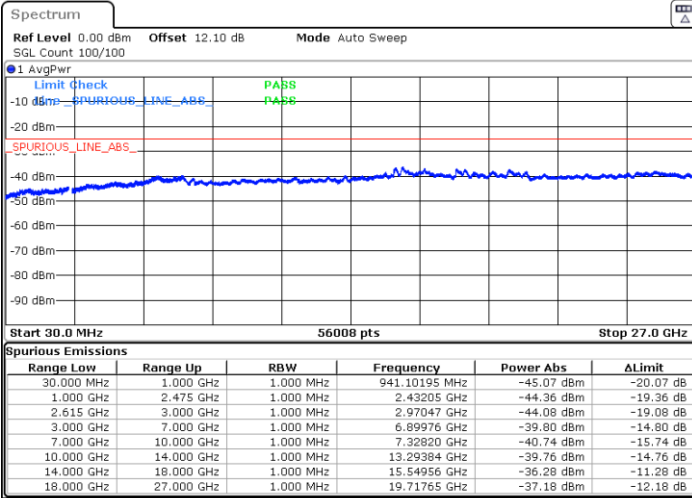


Date: 1.MAR.2024 03:01:15

Date: 1.MAR.2024 03:00:05

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Date: 1.MAR.2024 03:08:31

Date: 1.MAR.2024 03:09:40

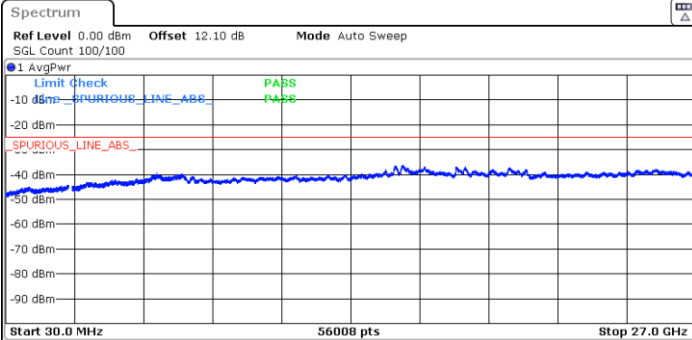


LTE Band 7C / 20MHz+15MHz

QPSK

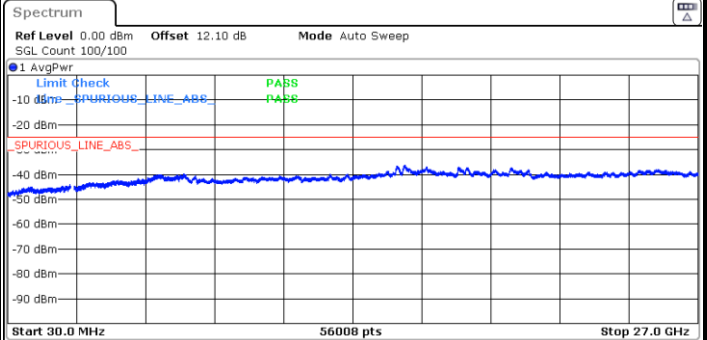
Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	909.10795 MHz	-45.19 dBm	-20.19 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47224 GHz	-44.34 dBm	-19.34 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.97239 GHz	-44.06 dBm	-19.06 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.93238 GHz	-39.49 dBm	-14.49 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.32770 GHz	-40.80 dBm	-15.80 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.93576 GHz	-39.74 dBm	-14.74 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.55256 GHz	-36.32 dBm	-11.32 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.73015 GHz	-37.19 dBm	-12.19 dB

Date: 1.MAR.2024 02:45:28



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	838.81809 MHz	-45.09 dBm	-20.09 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46597 GHz	-44.12 dBm	-19.12 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.97085 GHz	-43.89 dBm	-18.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89176 GHz	-39.80 dBm	-14.80 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.36469 GHz	-40.66 dBm	-15.66 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.30184 GHz	-39.90 dBm	-14.90 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.53256 GHz	-36.32 dBm	-11.32 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.68716 GHz	-37.37 dBm	-12.37 dB

Date: 1.MAR.2024 02:44:19

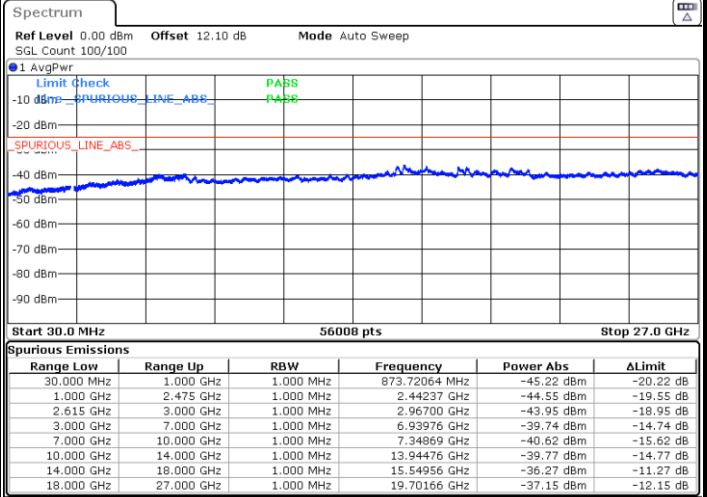
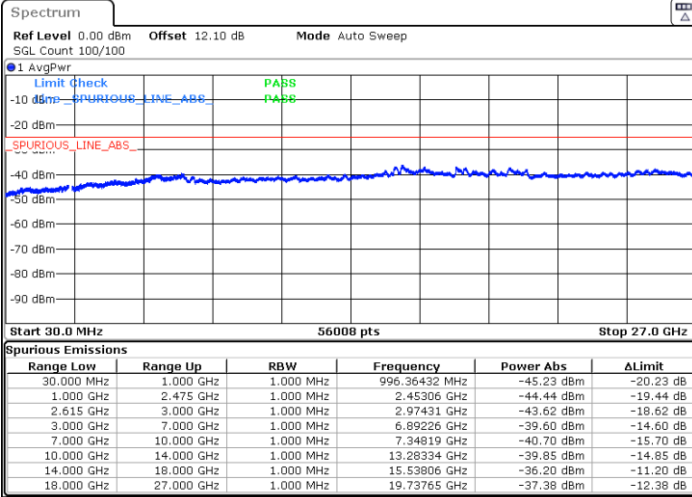


LTE Band 7C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

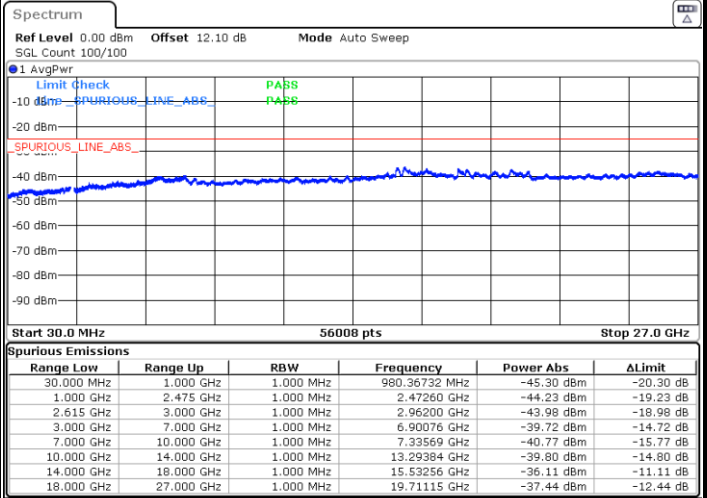
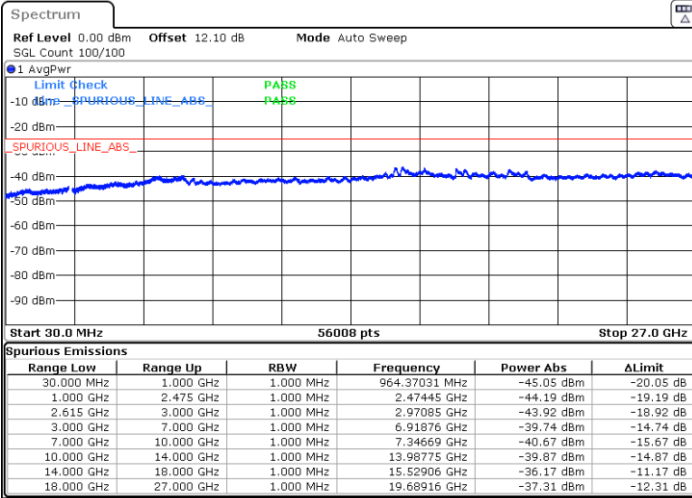


Date: 1.MAR.2024 03:40:03

Date: 1.MAR.2024 03:38:56

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 1.MAR.2024 03:46:49

Date: 1.MAR.2024 03:47:56

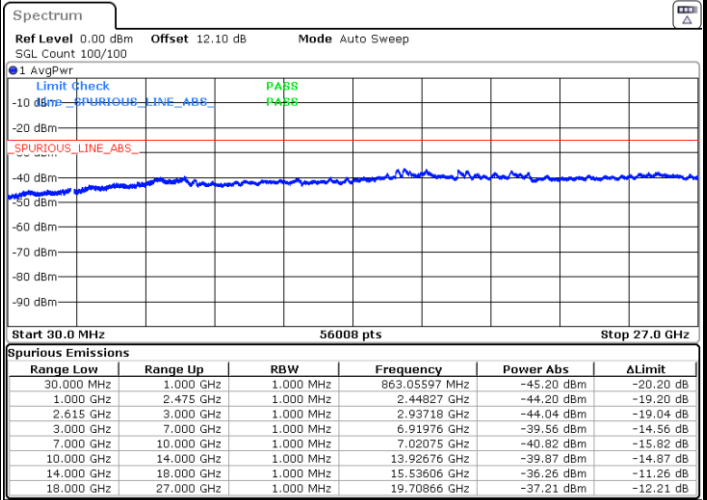
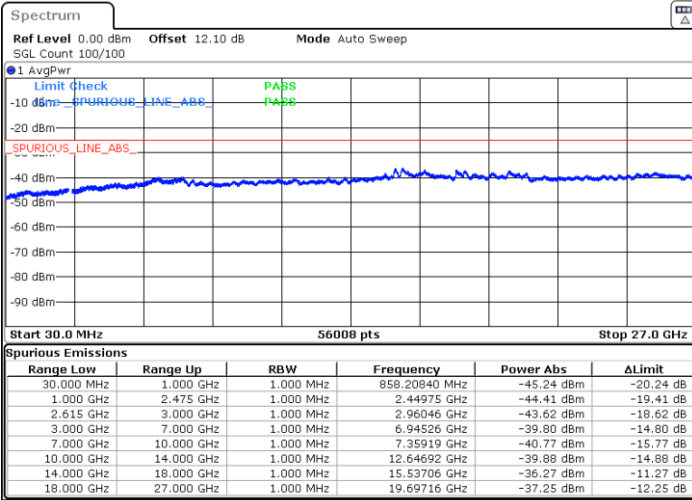


LTE Band 7C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 1.MAR.2024 03:25:00

Date: 1.MAR.2024 03:23:53



LTE Band 12

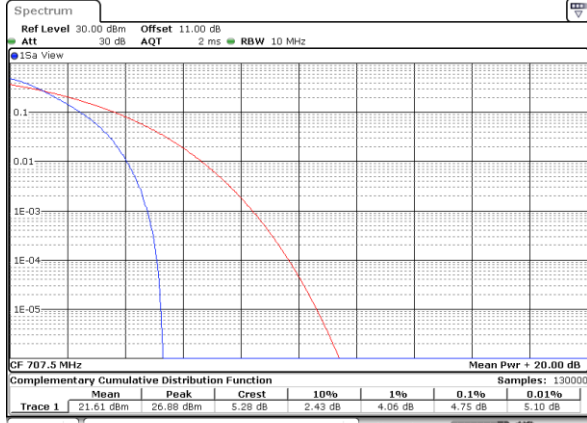
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.57	6.14	6.55	PASS



LTE Band 12 / 10MHz / QPSK

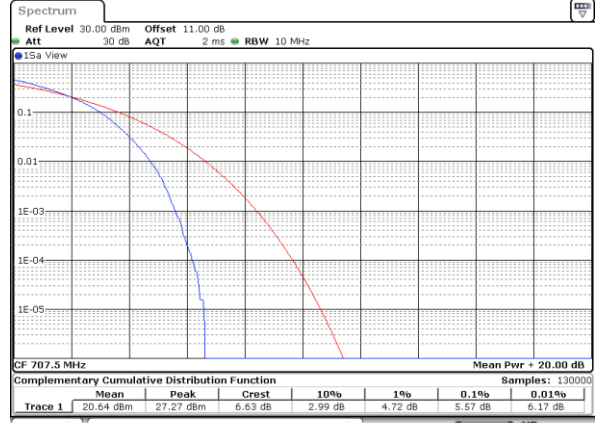
Middle Channel / Full RB



Date: 27.MAR.2024 15:28:35

LTE Band 12 / 10MHz / 16QAM

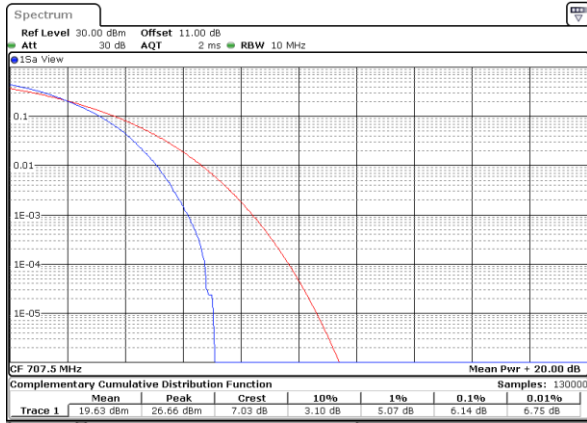
Middle Channel / Full RB



Date: 27.MAR.2024 15:28:59

LTE Band 12 / 10MHz / 64QAM

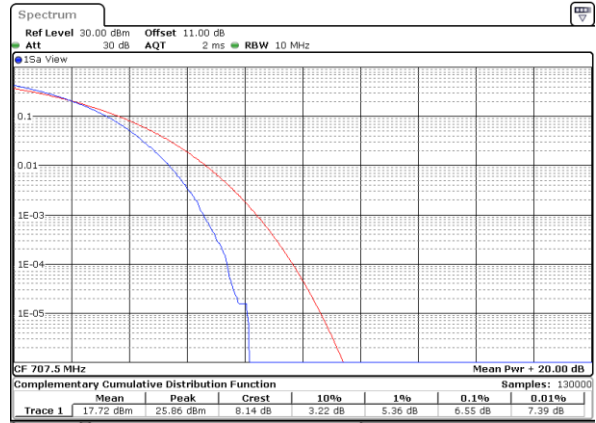
Middle Channel / Full RB



Date: 27.MAR.2024 15:29:22

LTE Band 12 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 27.MAR.2024 15:29:46



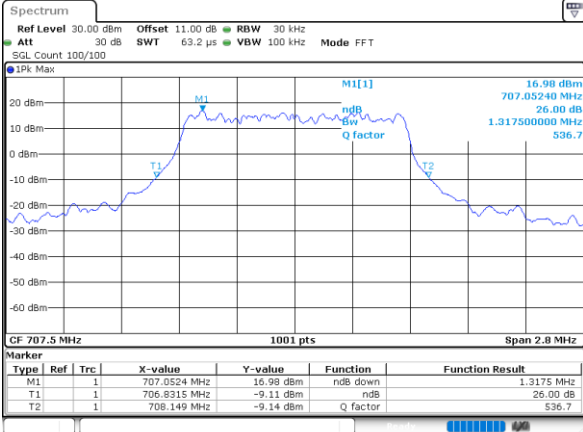
26dB Bandwidth

Mode	LTE Band 12 : 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	1.31	1.34	3.04	3.11	5.08	4.99	10.16	9.89	-	-	-	-
Mode	LTE Band 12 : 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	1.35	1.32	3.04	3.06	5.08	4.87	9.97	9.83	-	-	-	-



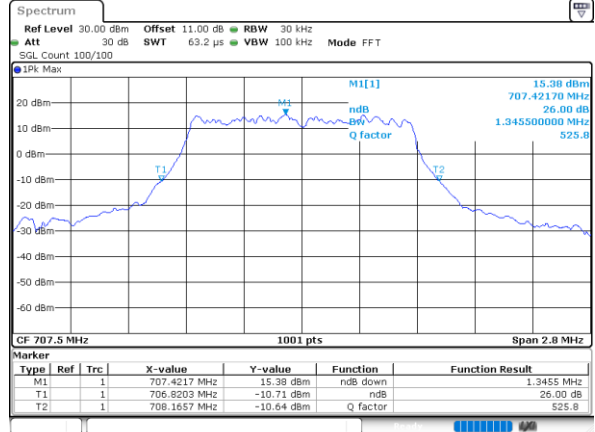
LTE Band 12

Middle Channel / 1.4MHz / QPSK



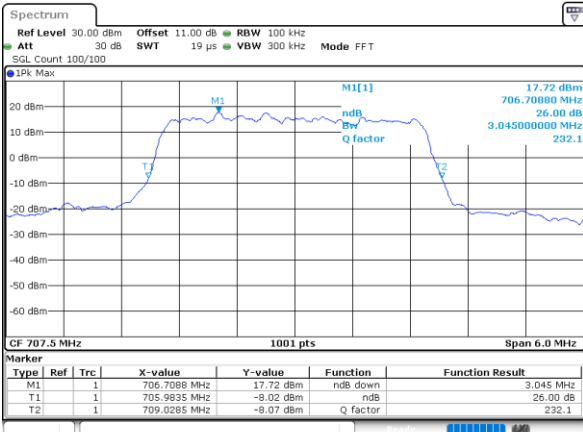
Date: 27_MAR_2024 11:22:59

Middle Channel / 1.4MHz / 16QAM



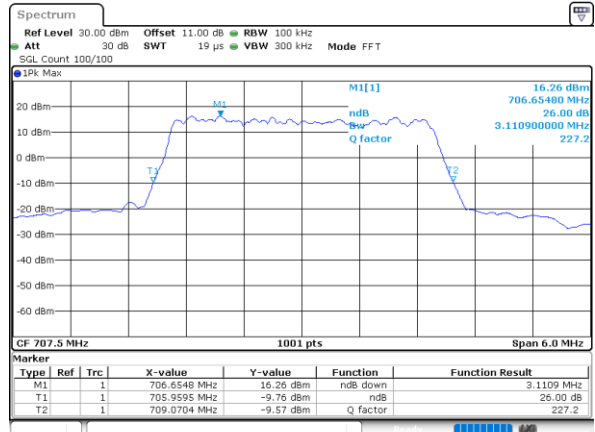
Date: 27_MAR_2024 11:23:21

Middle Channel / 3MHz / QPSK



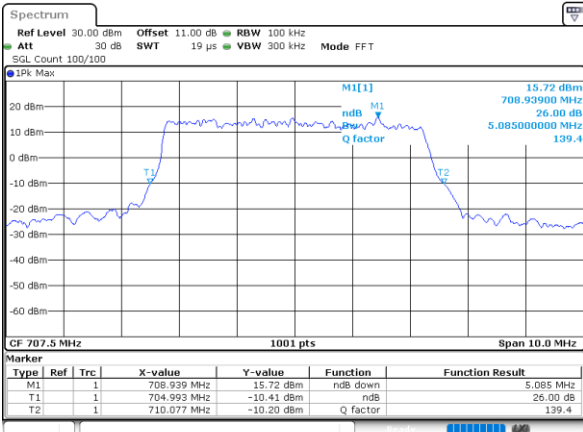
Date: 27_MAR_2024 11:56:41

Middle Channel / 3MHz / 16QAM



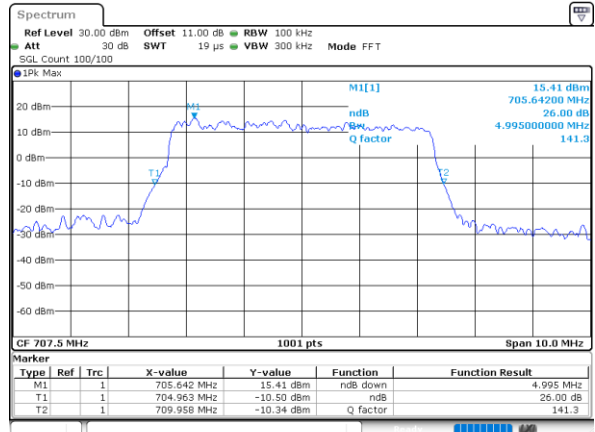
Date: 27_MAR_2024 11:57:03

Middle Channel / 5MHz / QPSK



Date: 27_MAR_2024 14:29:55

Middle Channel / 5MHz / 16QAM

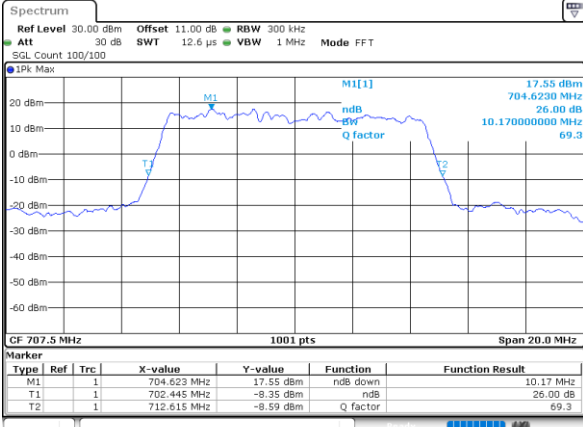


Date: 27_MAR_2024 14:30:17



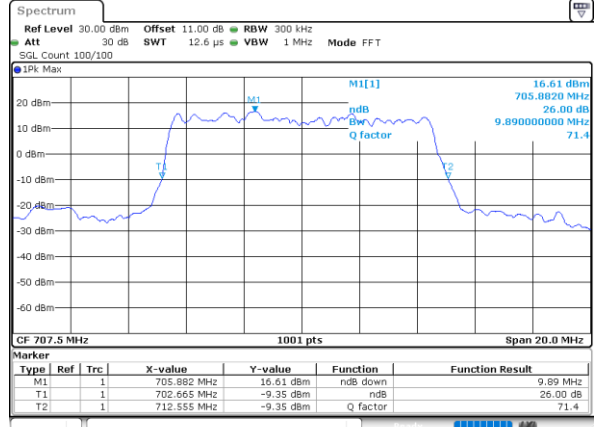
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 27_MAR_2024 15:16:30

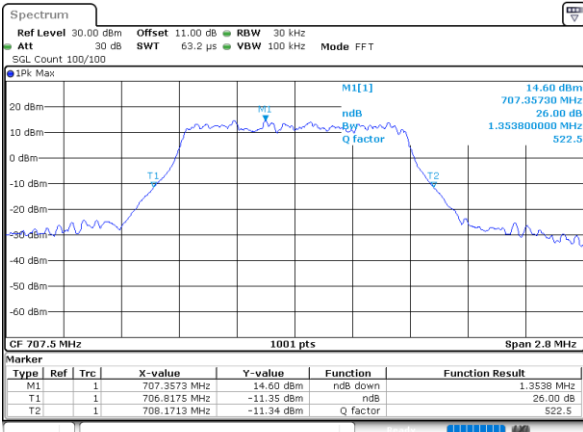
Middle Channel / 10MHz / 16QAM



Date: 27_MAR_2024 15:17:00

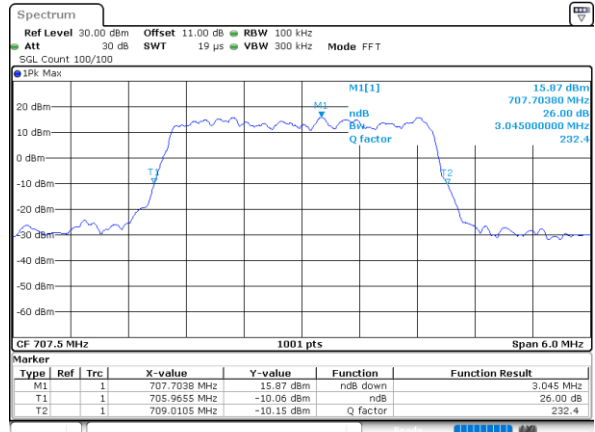
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



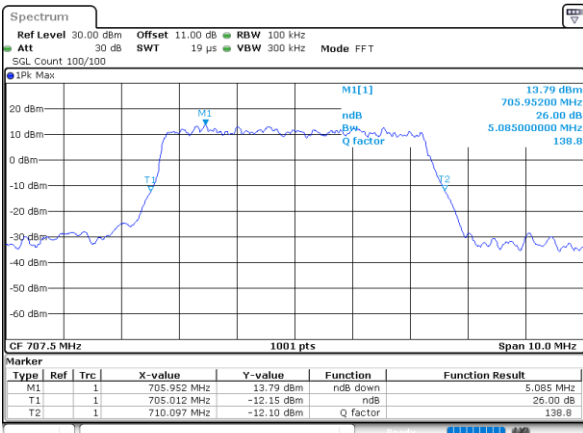
Date: 27_MAR_2024 11:24:28

Middle Channel / 3MHz / 64QAM



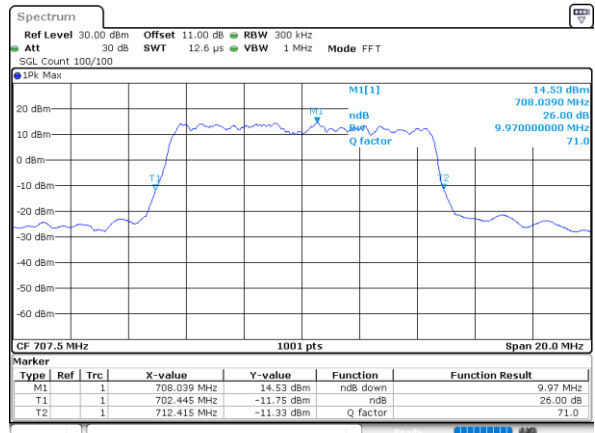
Date: 27_MAR_2024 11:58:10

Middle Channel / 5MHz / 64QAM



Date: 27_MAR_2024 14:31:24

Middle Channel / 10MHz / 64QAM

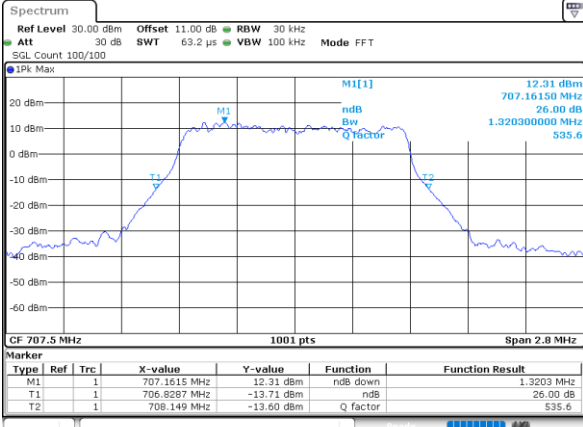


Date: 27_MAR_2024 15:18:07



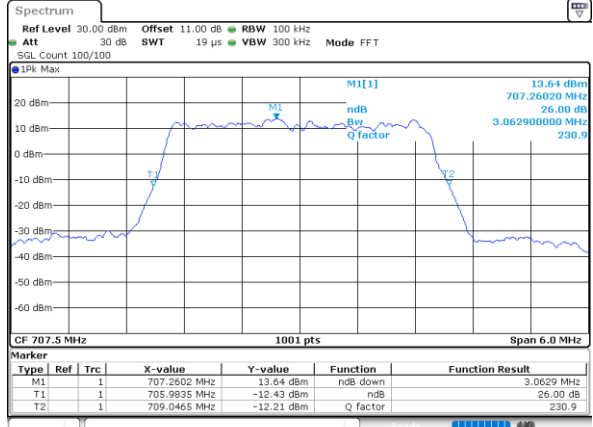
LTE Band 12

Middle Channel / 1.4MHz / 256QAM



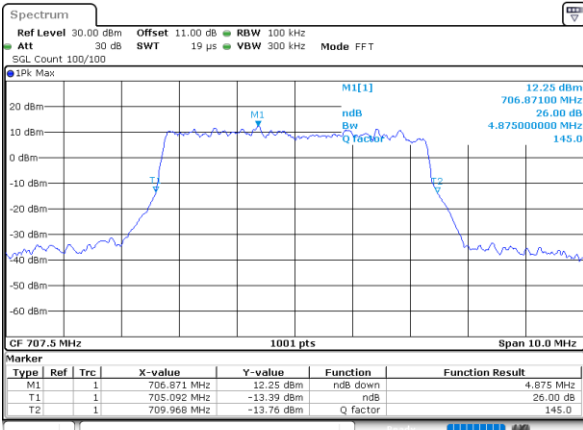
Date: 27.MAR.2024 11:24:51

Middle Channel / 3MHz / 256QAM



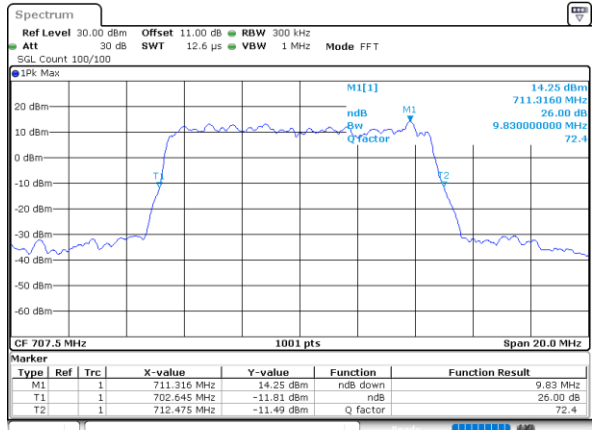
Date: 27.MAR.2024 11:58:33

Middle Channel / 5MHz / 256QAM



Date: 27.MAR.2024 14:31:47

Middle Channel / 10MHz / 256QAM



Date: 27.MAR.2024 15:18:30



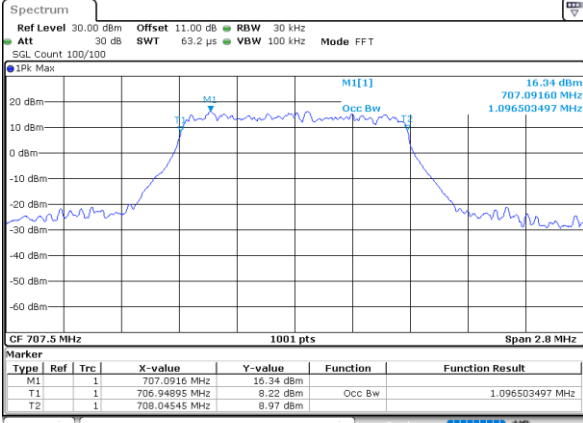
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.09	2.72	2.73	4.49	4.48	9.05	9.01	-	-	-	-
Mode	LTE Band 12 : 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	1.10	1.09	2.72	2.72	4.51	4.49	9.05	8.99	-	-	-	-

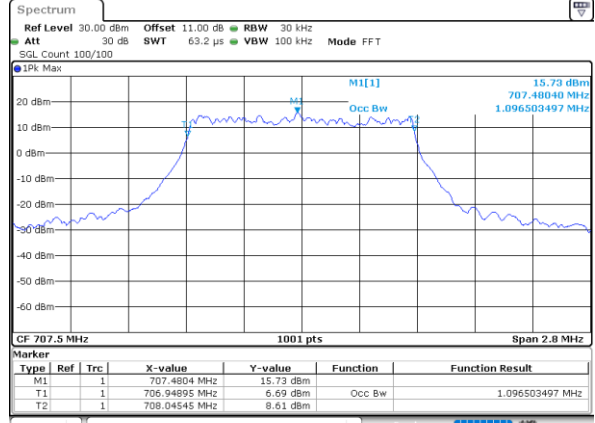


LTE Band 12

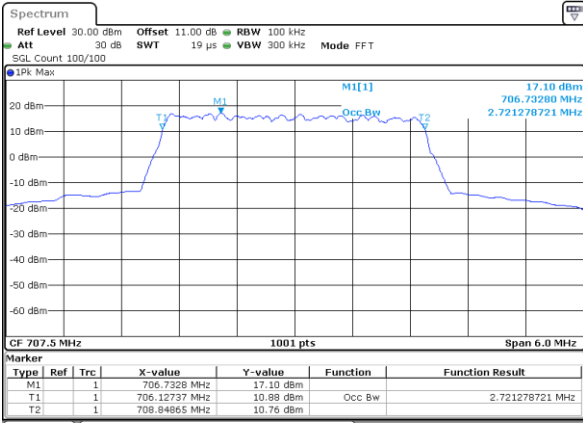
Middle Channel / 1.4MHz / QPSK



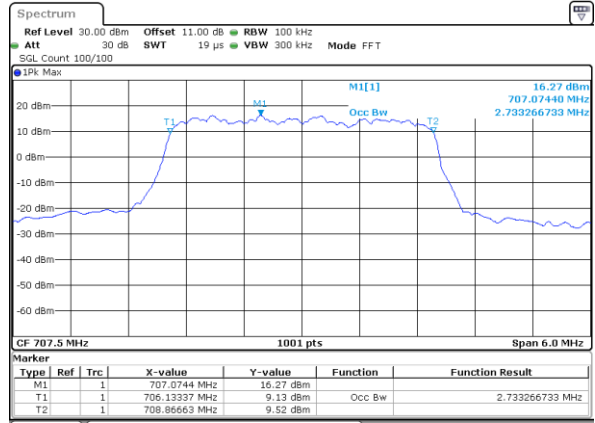
Middle Channel / 1.4MHz / 16QAM



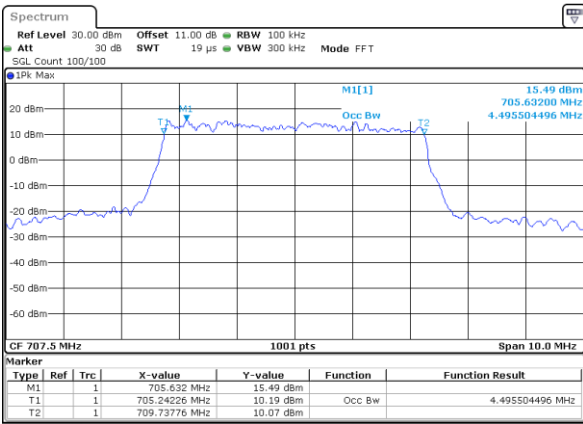
Middle Channel / 3MHz / QPSK



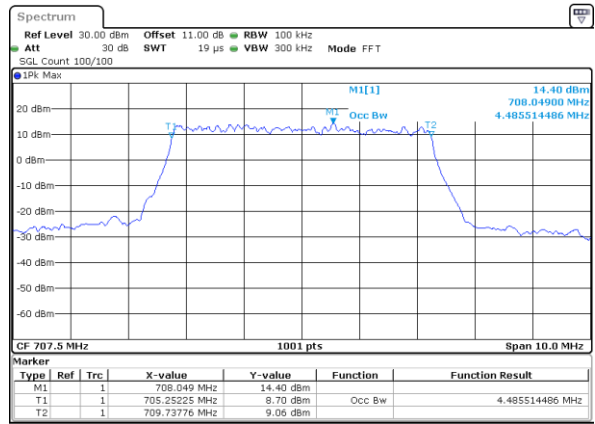
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



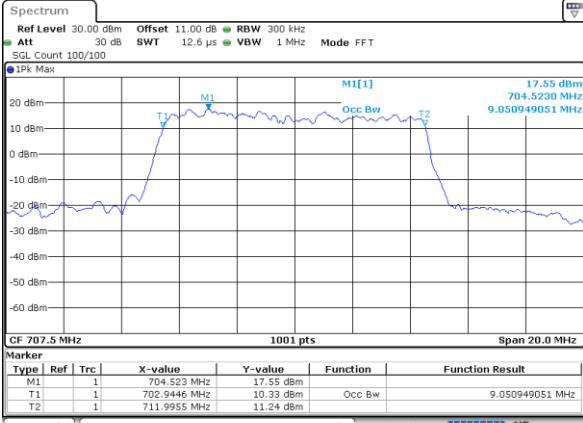
Middle Channel / 5MHz / 16QAM





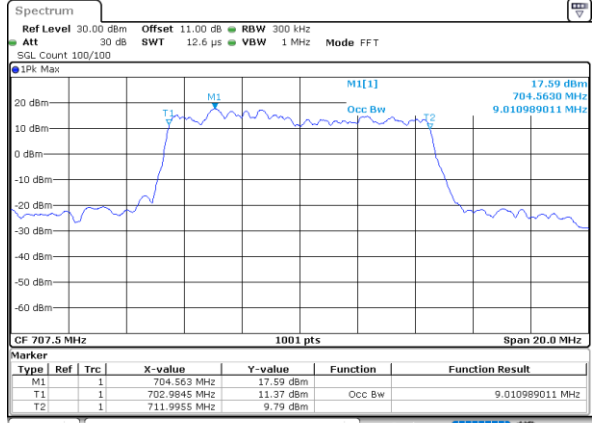
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 27_MAR_2024 15:16:15

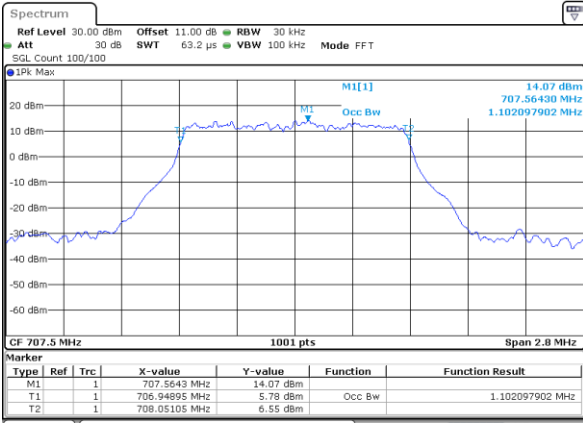
Middle Channel / 10MHz / 16QAM



Date: 27_MAR_2024 15:17:22

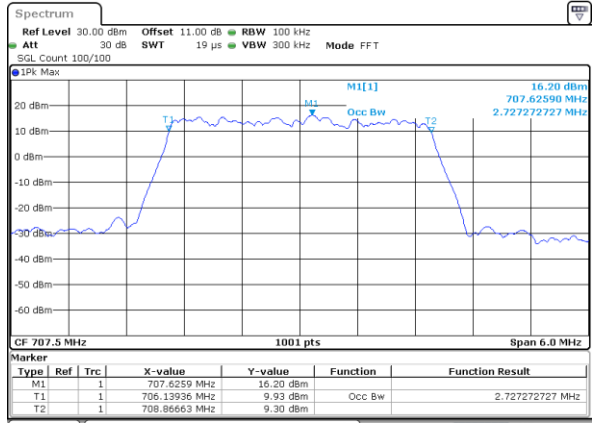
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



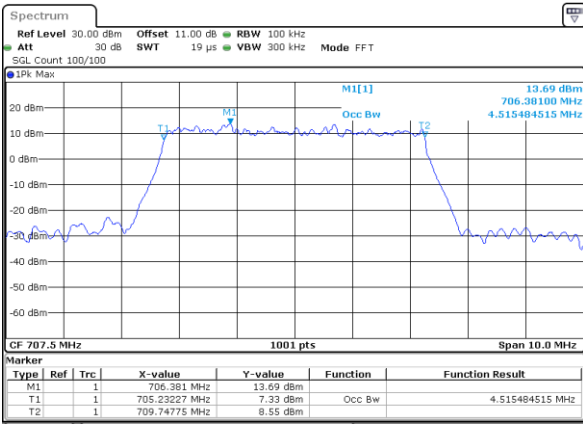
Date: 27_MAR_2024 11:24:06

Middle Channel / 3MHz / 64QAM



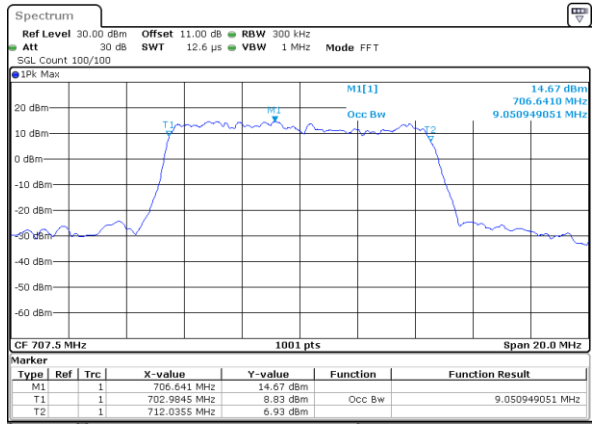
Date: 27_MAR_2024 11:57:48

Middle Channel / 5MHz / 64QAM



Date: 27_MAR_2024 14:31:02

Middle Channel / 10MHz / 64QAM

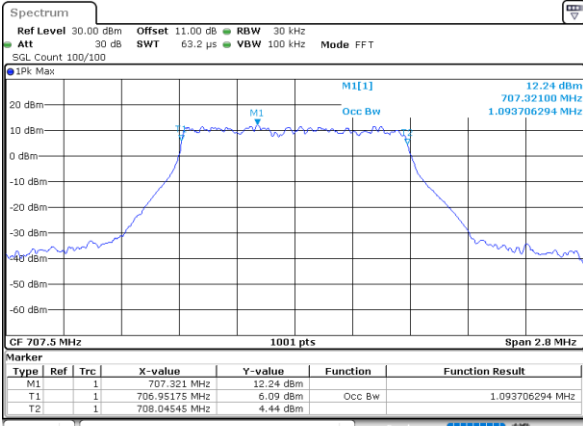


Date: 27_MAR_2024 15:17:45



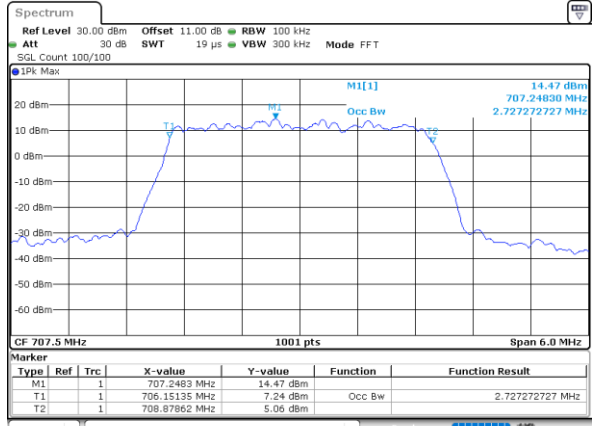
LTE Band 12

Middle Channel / 1.4MHz / 256QAM



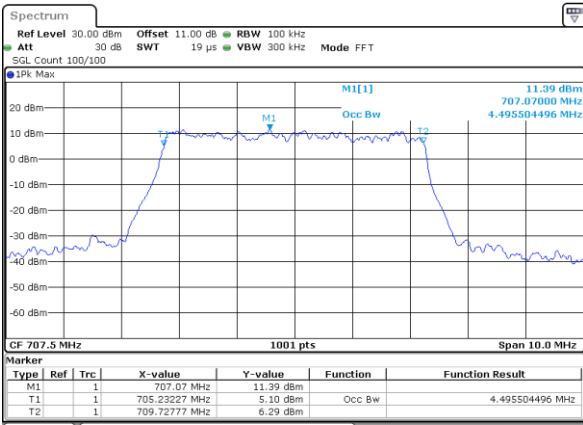
Date: 27.MAR.2024 11:25:49

Middle Channel / 3MHz / 256QAM



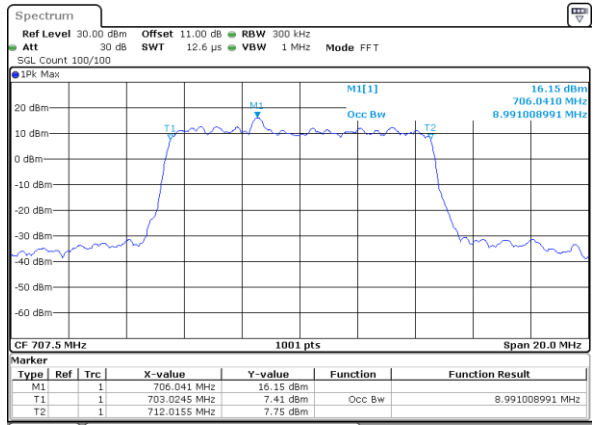
Date: 27.MAR.2024 11:58:55

Middle Channel / 5MHz / 256QAM



Date: 27.MAR.2024 14:32:09

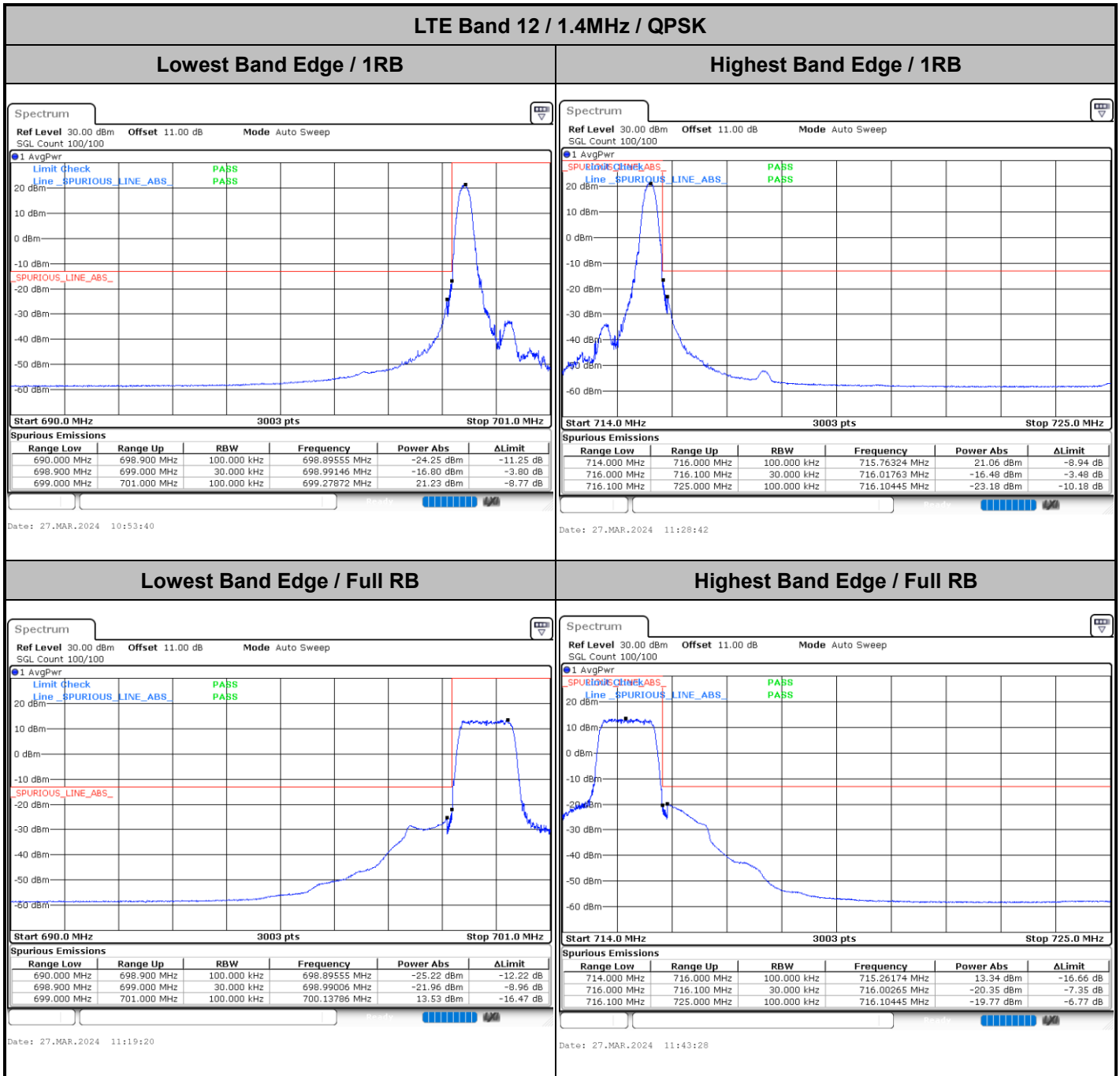
Middle Channel / 10MHz / 256QAM



Date: 27.MAR.2024 15:18:53



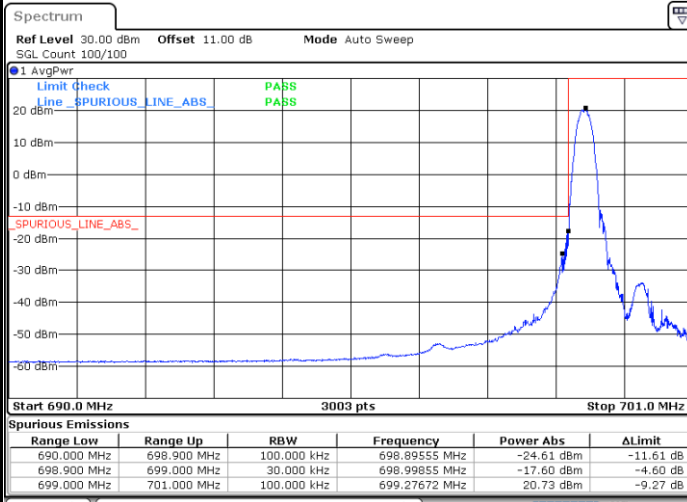
Conducted Band Edge





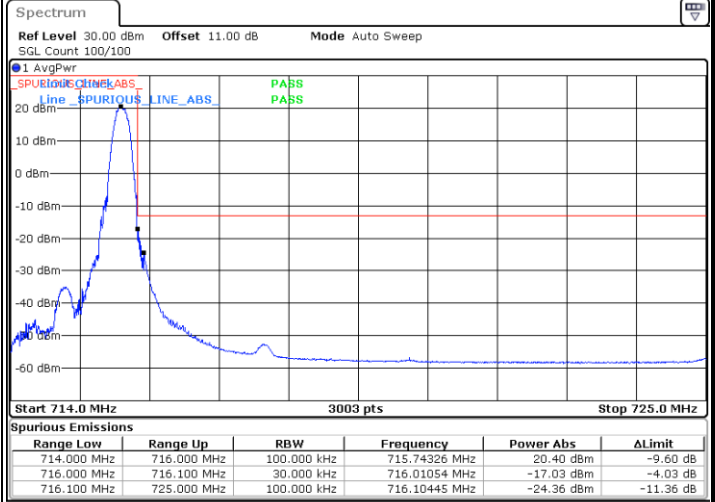
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



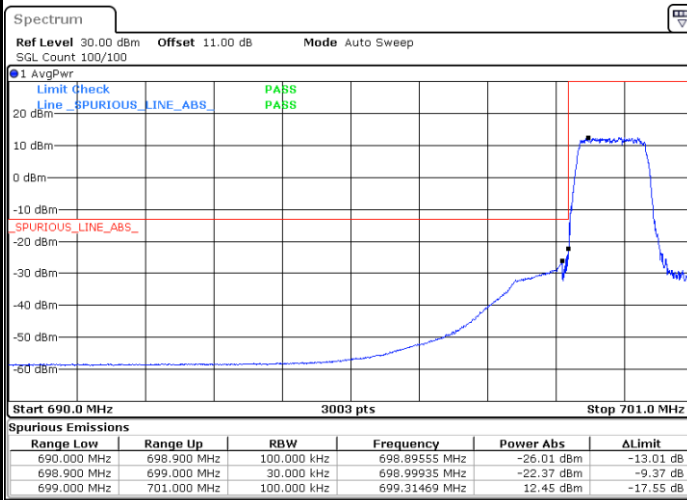
Date: 27.MAR.2024 11:04:10

Highest Band Edge / 1 RB



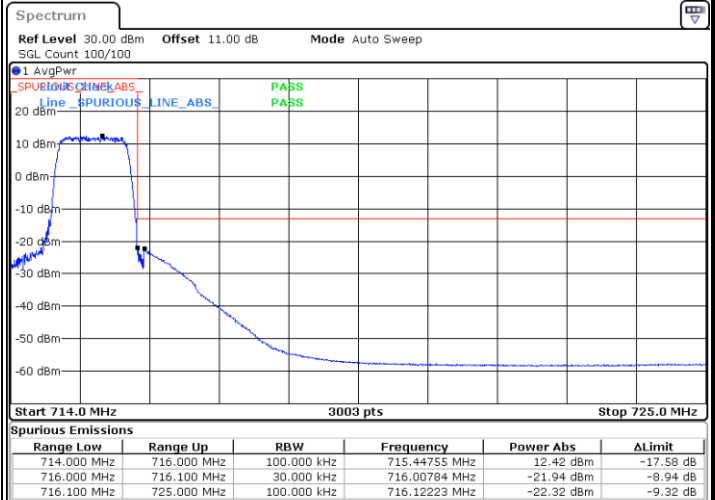
Date: 27.MAR.2024 11:29:34

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:20:12

Highest Band Edge / Full RB

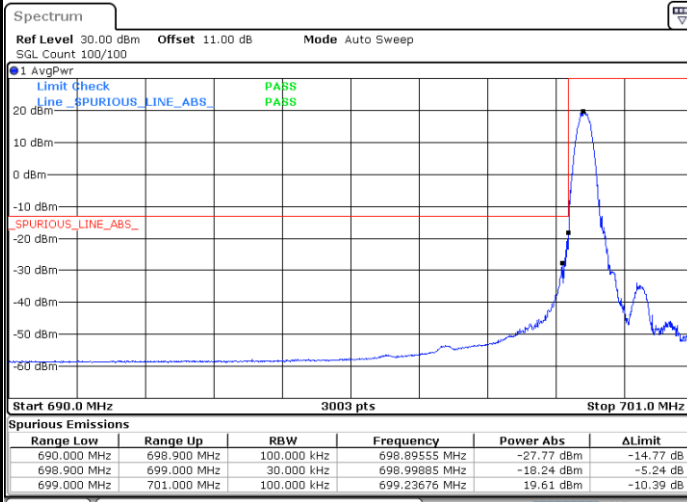


Date: 27.MAR.2024 11:44:20



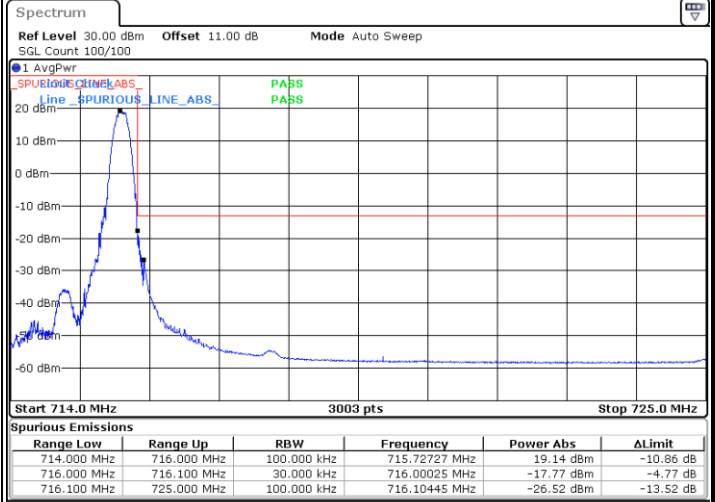
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



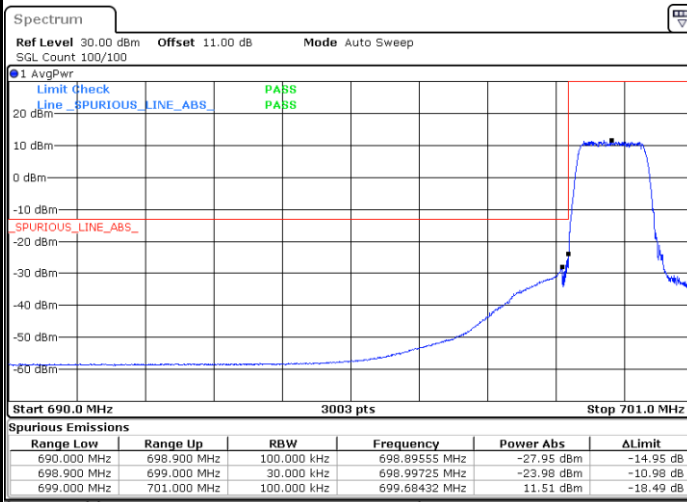
Date: 27.MAR.2024 11:05:02

Highest Band Edge / 1 RB



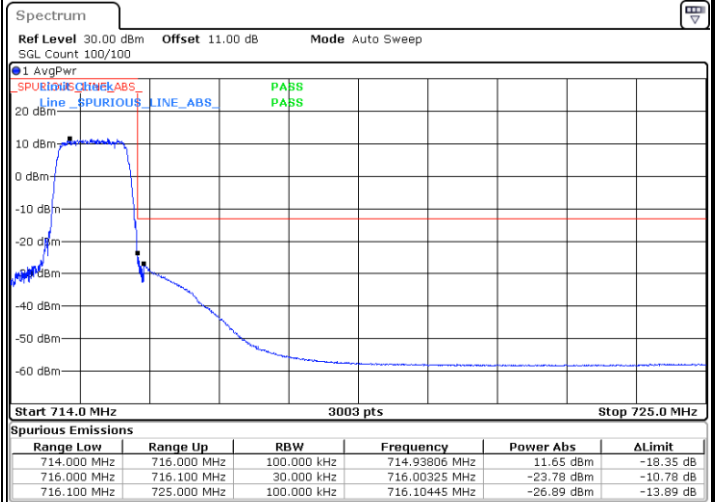
Date: 27.MAR.2024 11:30:26

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:21:03

Highest Band Edge / Full RB

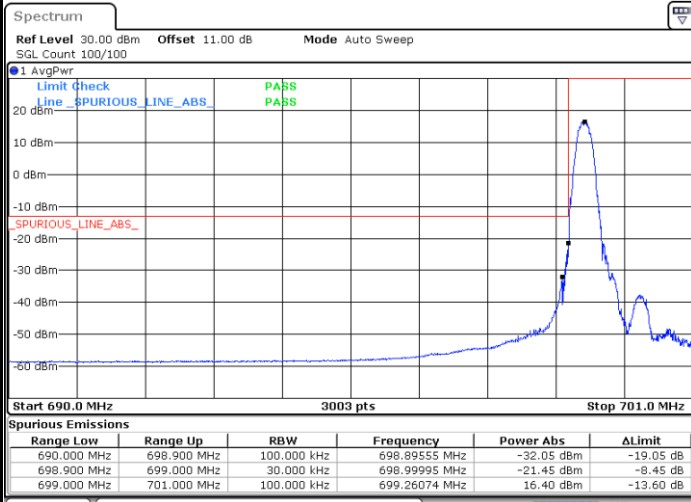


Date: 27.MAR.2024 11:45:12



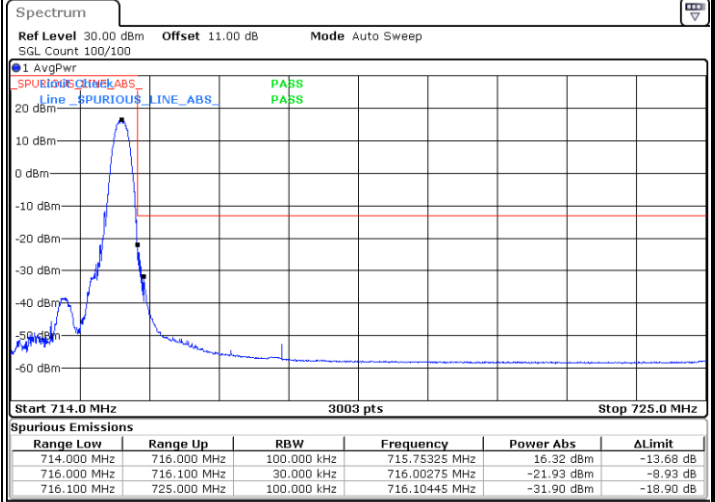
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



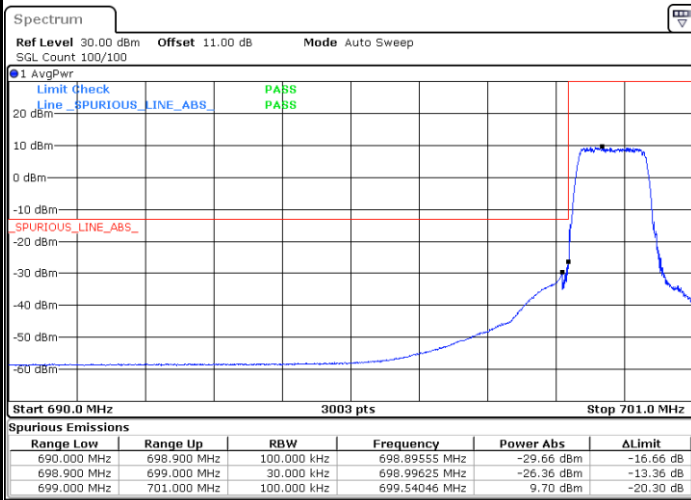
Date: 27.MAR.2024 11:18:25

Highest Band Edge / 1 RB



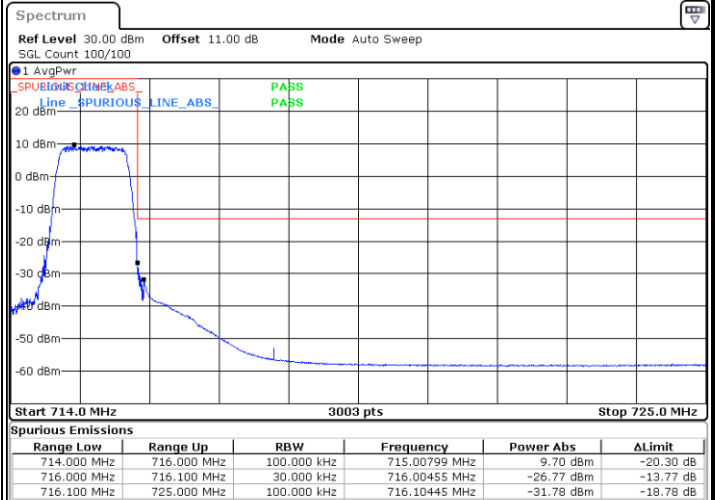
Date: 27.MAR.2024 11:31:18

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:21:55

Highest Band Edge / Full RB

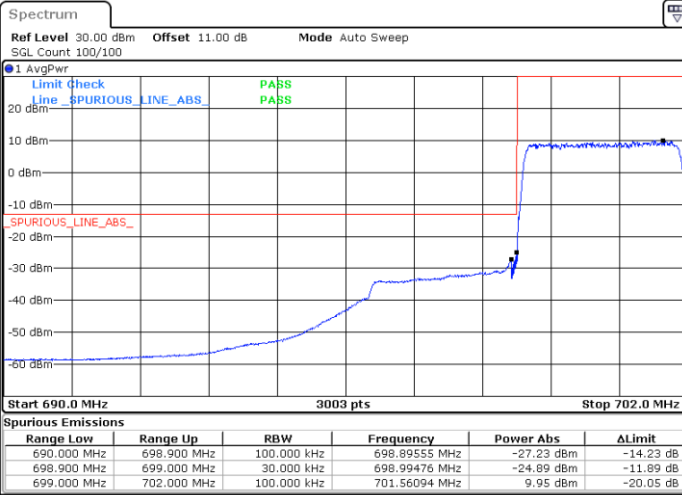


Date: 27.MAR.2024 11:46:04



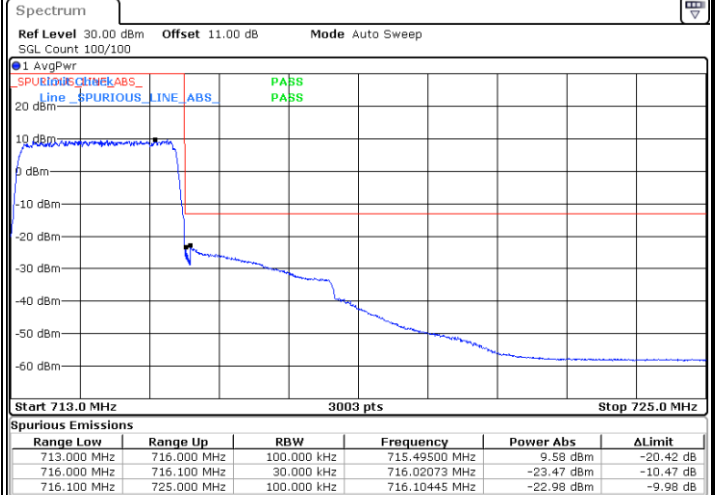
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:53:02

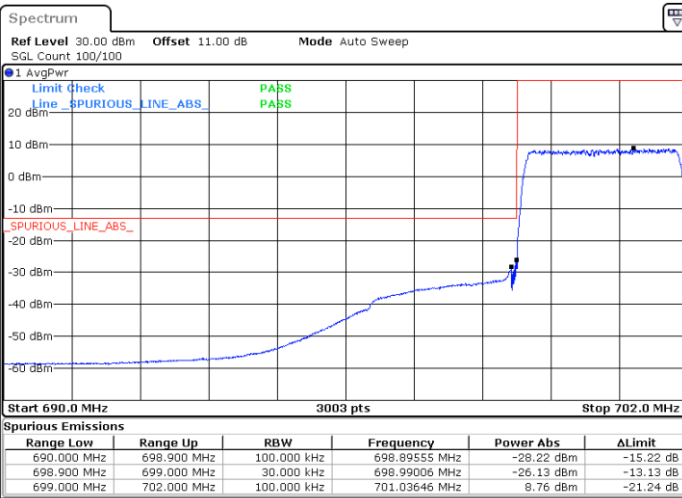
Highest Band Edge / Full RB



Date: 27.MAR.2024 12:05:19

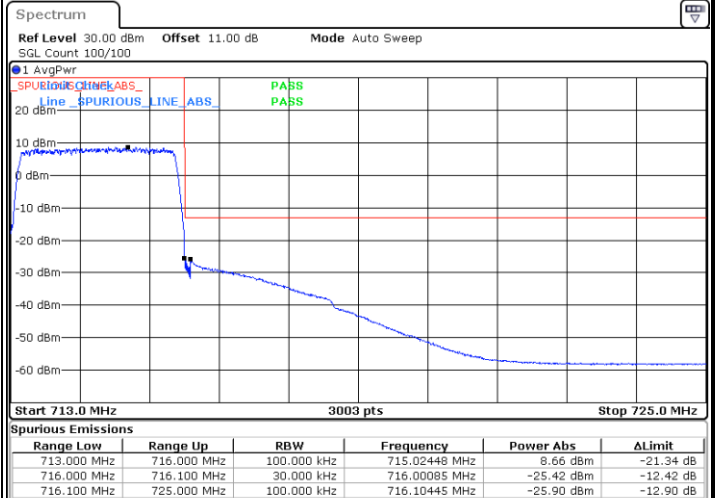
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:53:54

Highest Band Edge / Full RB

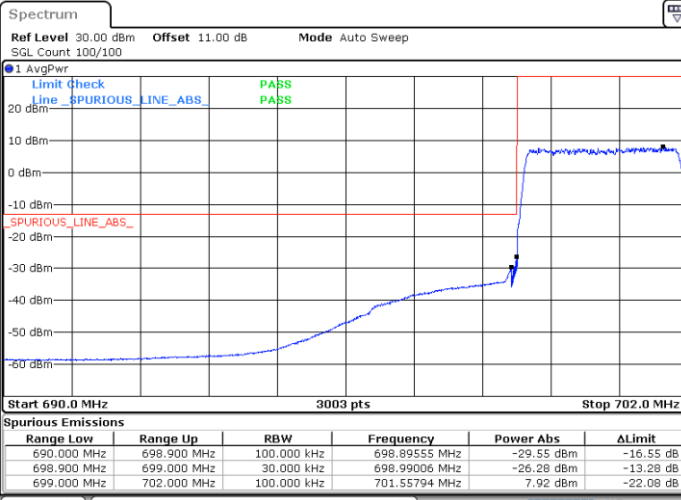


Date: 27.MAR.2024 12:06:11



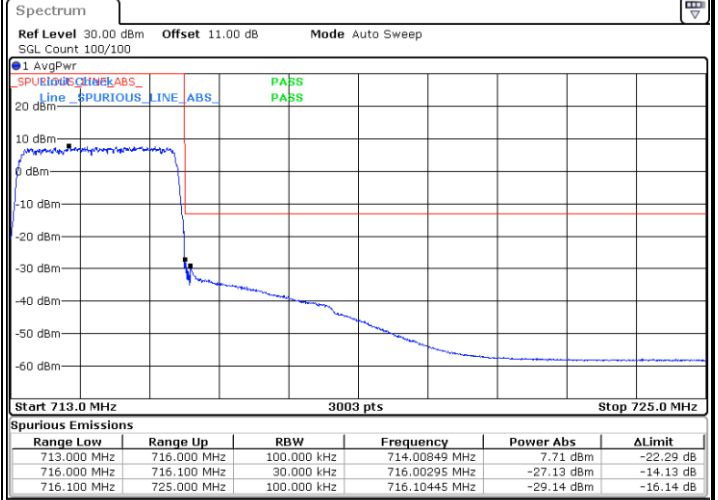
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:54:46

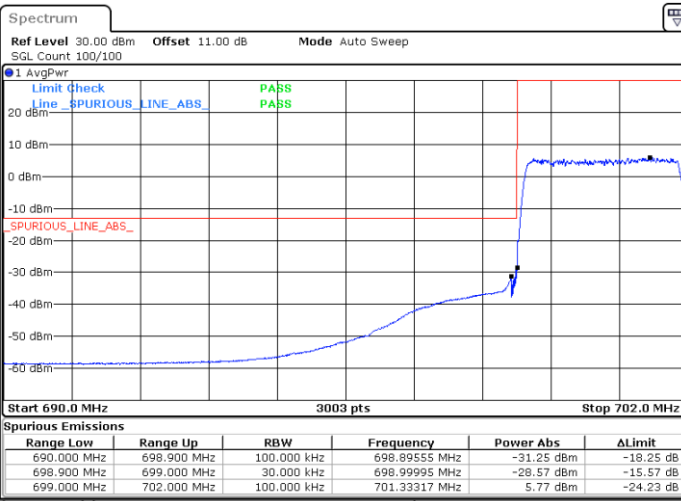
Highest Band Edge / Full RB



Date: 27.MAR.2024 12:07:03

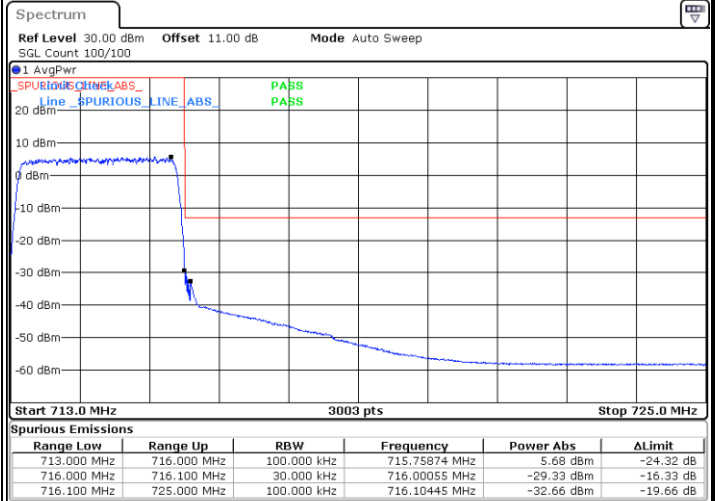
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 11:55:38

Highest Band Edge / Full RB

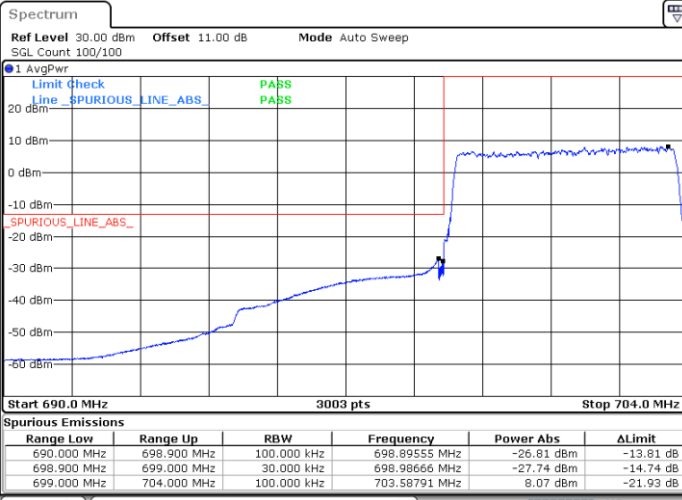


Date: 27.MAR.2024 12:07:55



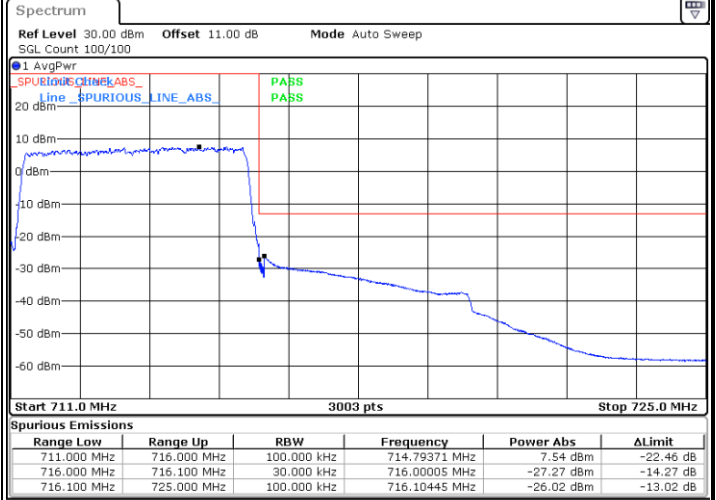
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 27.MAR.2024 14:26:15

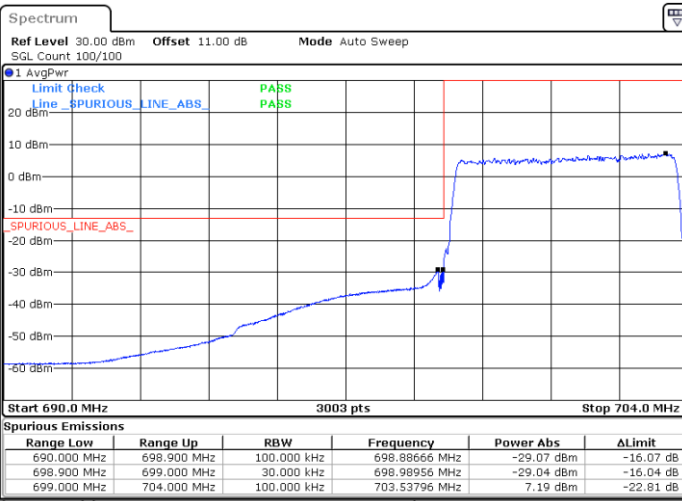
Highest Band Edge / Full RB



Date: 27.MAR.2024 14:38:33

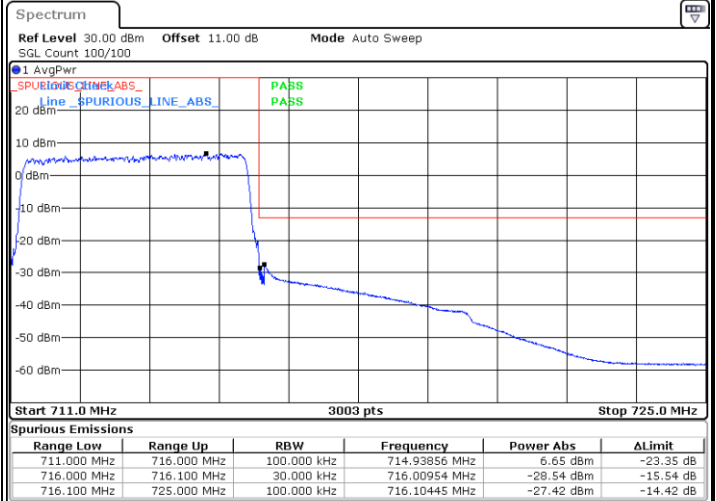
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 14:27:07

Highest Band Edge / Full RB

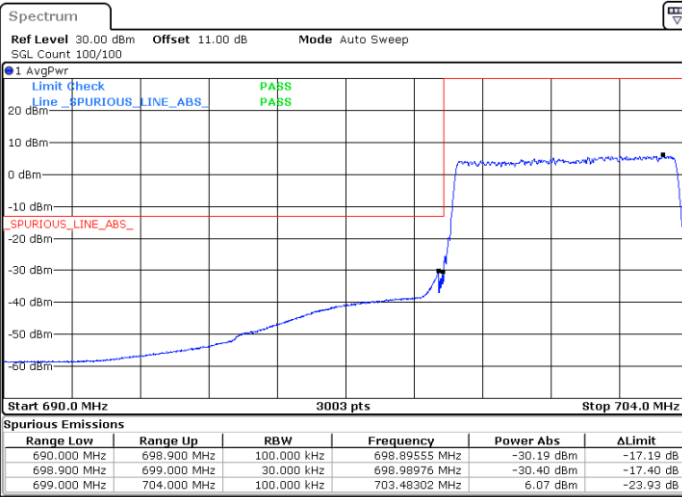


Date: 27.MAR.2024 14:39:25



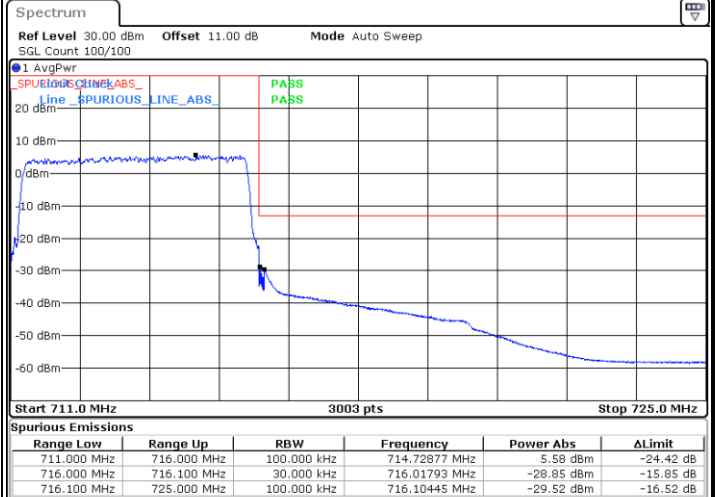
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 14:27:59

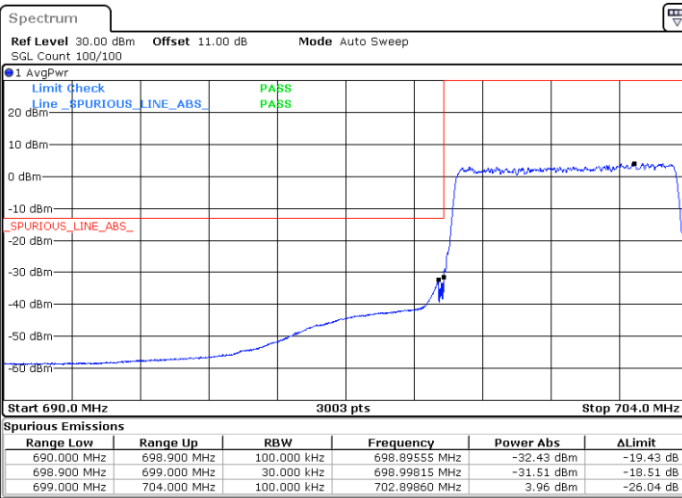
Highest Band Edge / Full RB



Date: 27.MAR.2024 14:40:17

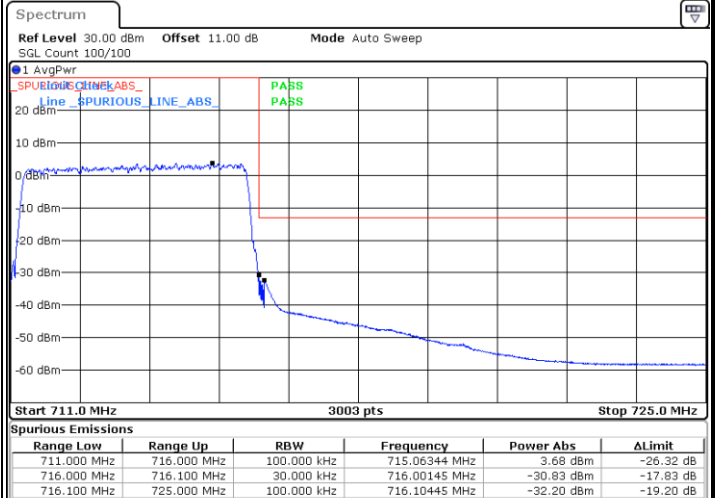
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 14:28:51

Highest Band Edge / Full RB

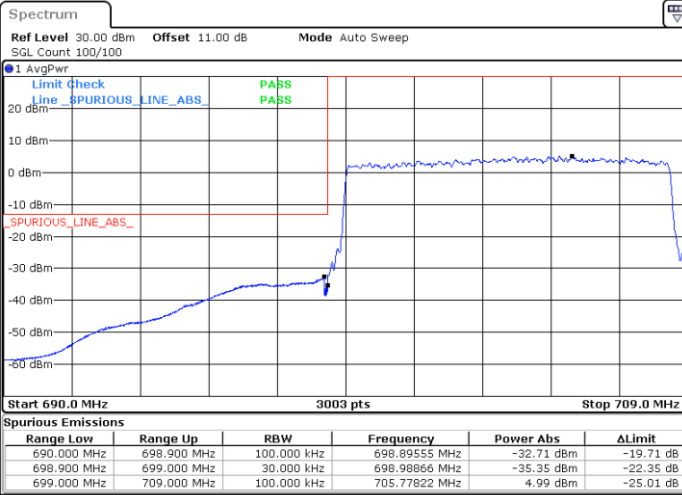


Date: 27.MAR.2024 14:41:09



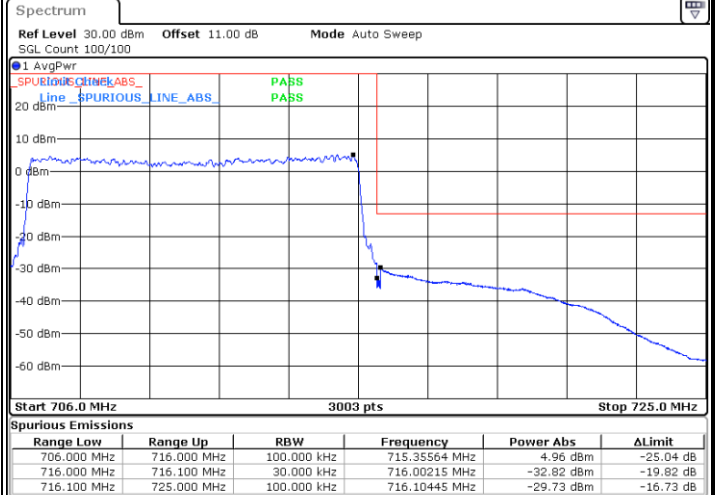
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 27.MAR.2024 15:12:55

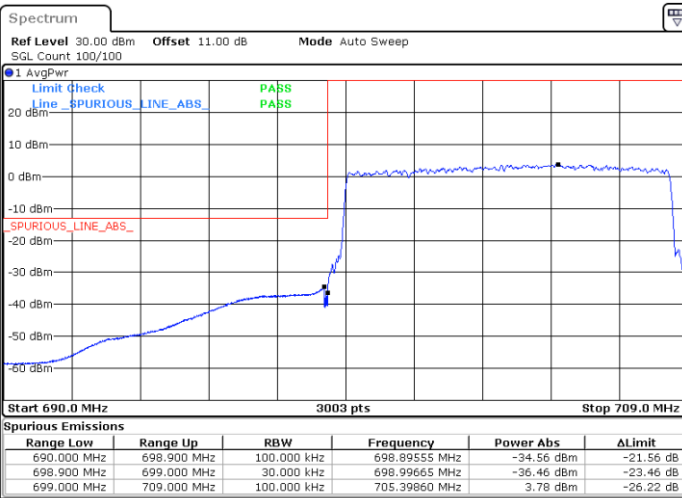
Highest Band Edge / Full RB



Date: 27.MAR.2024 15:25:16

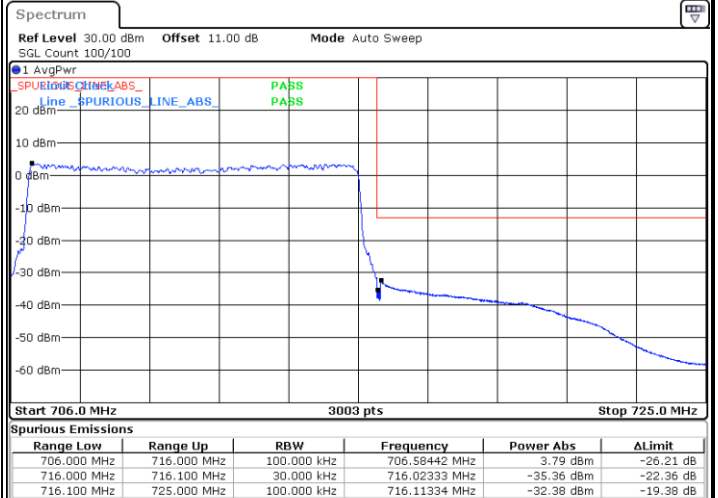
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 15:13:47

Highest Band Edge / Full RB

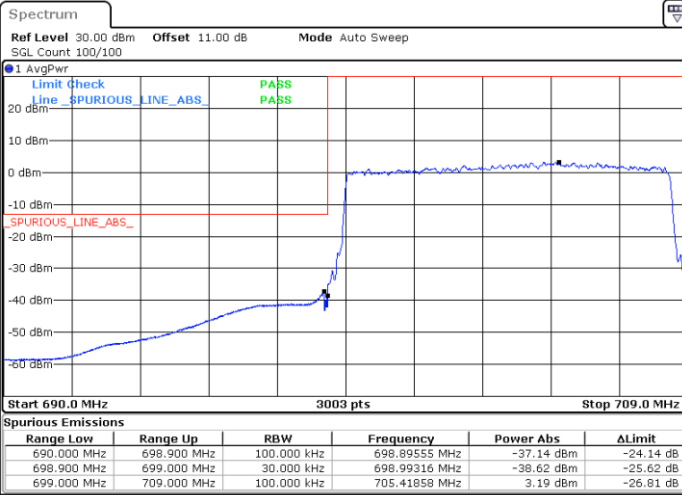


Date: 27.MAR.2024 15:26:08



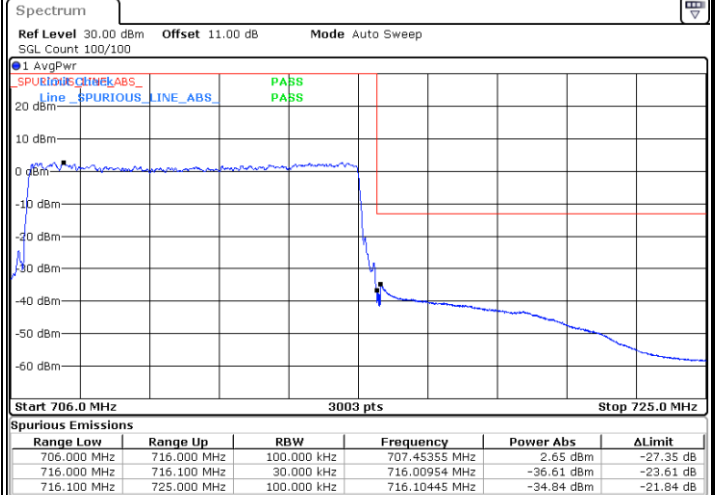
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 15:14:42

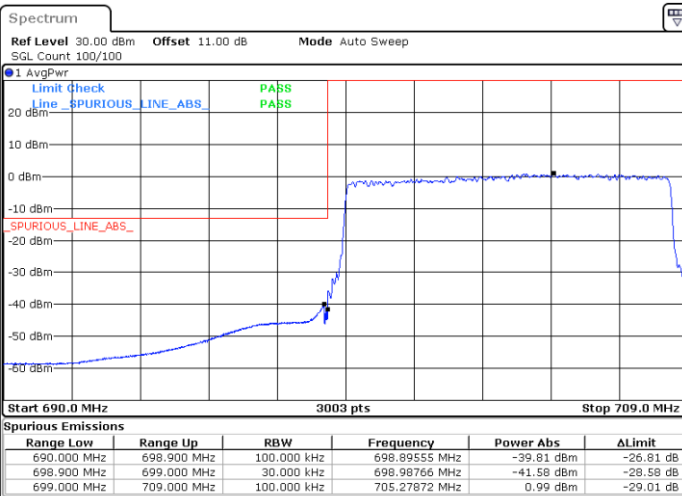
Highest Band Edge / Full RB



Date: 27.MAR.2024 15:27:00

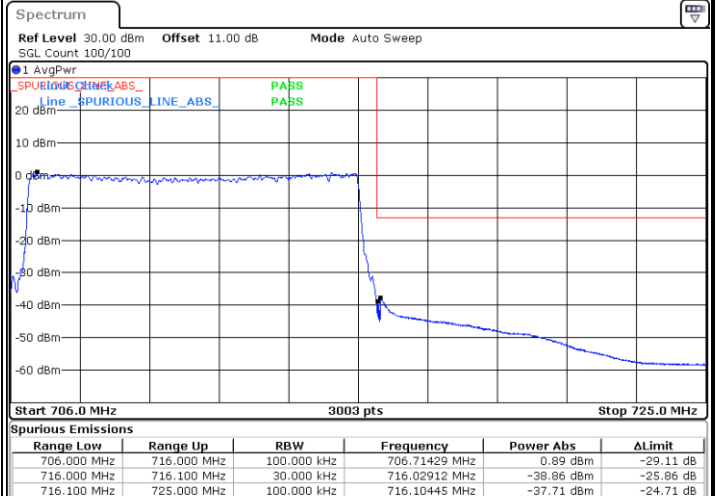
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 27.MAR.2024 15:15:34

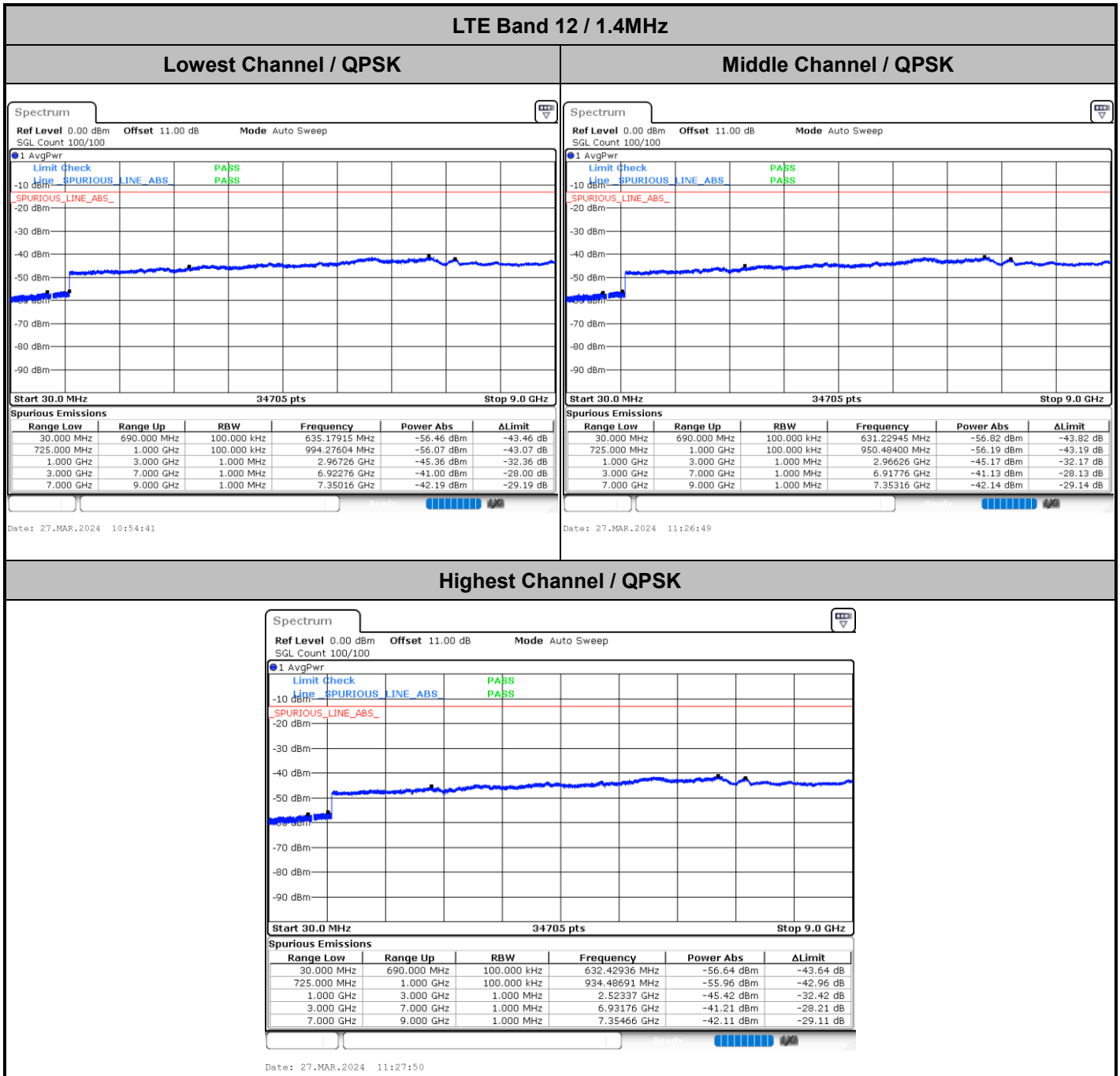
Highest Band Edge / Full RB



Date: 27.MAR.2024 15:27:52



Conducted Spurious Emission

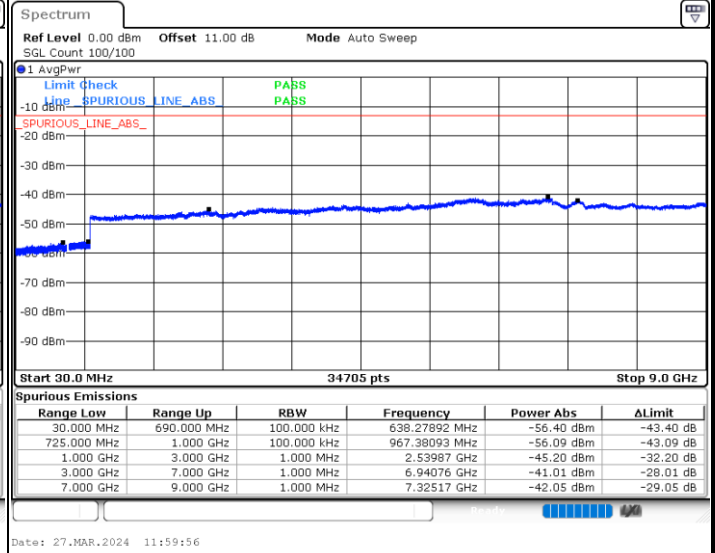
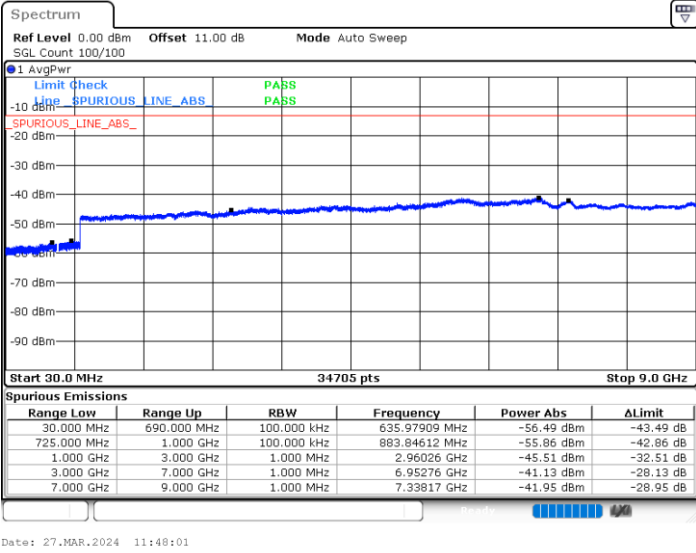




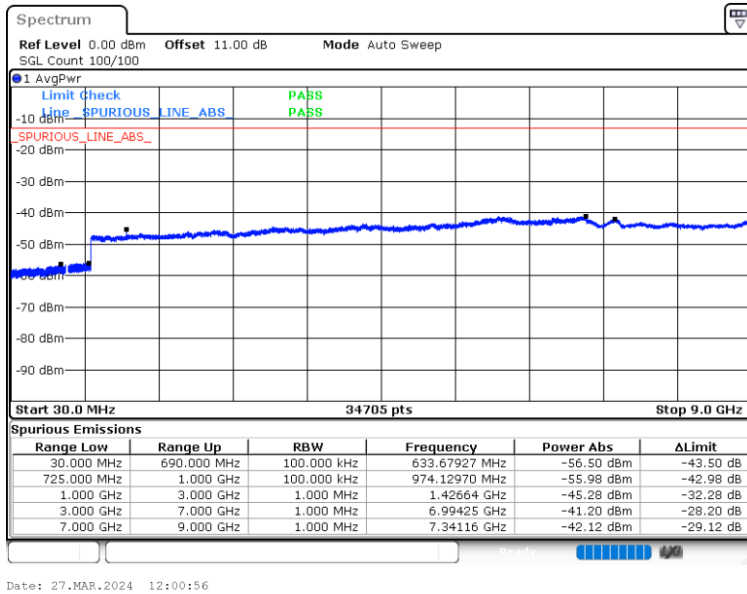
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

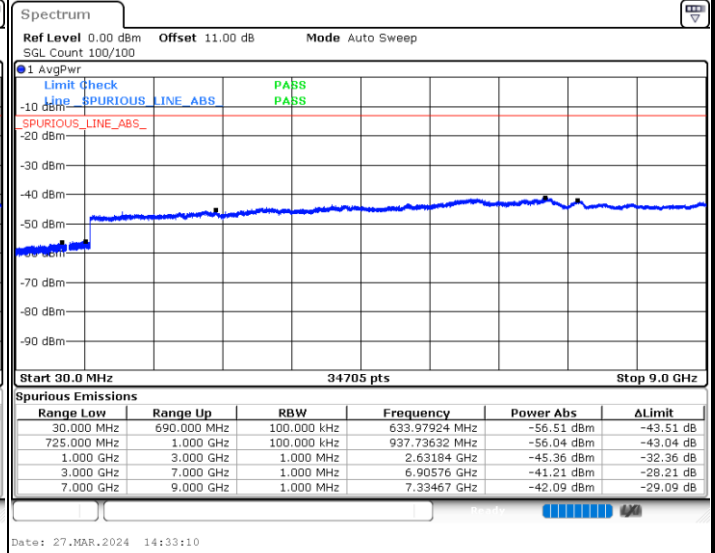
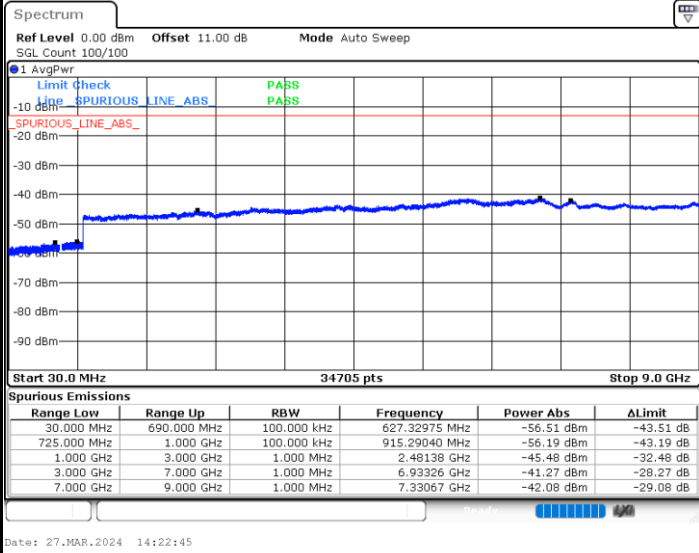




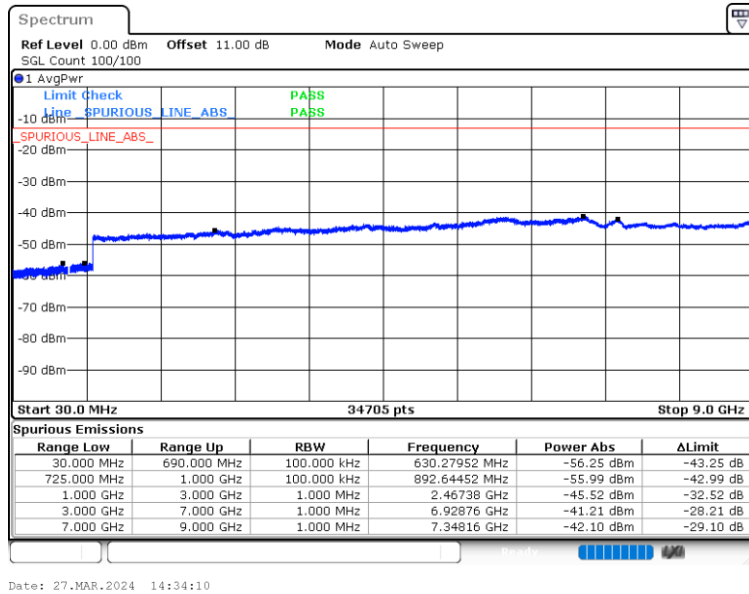
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

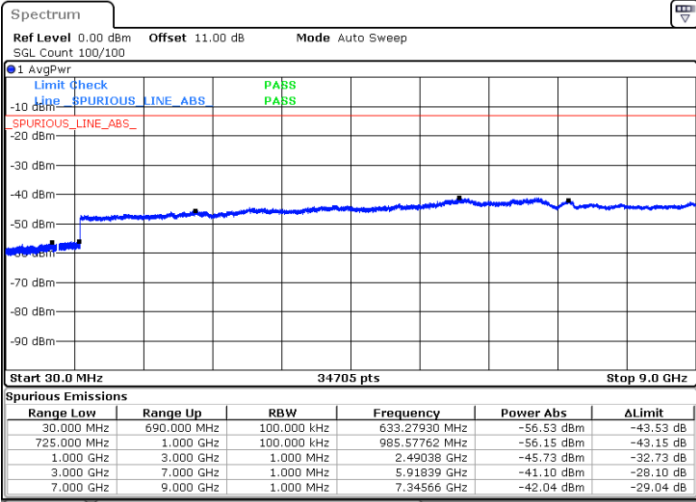




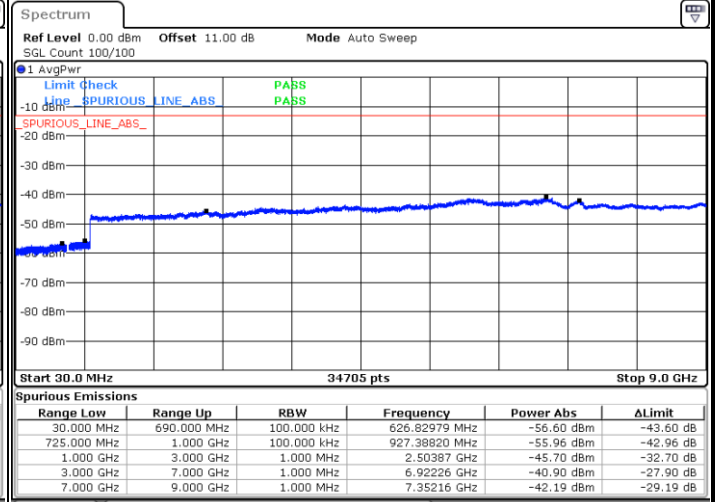
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

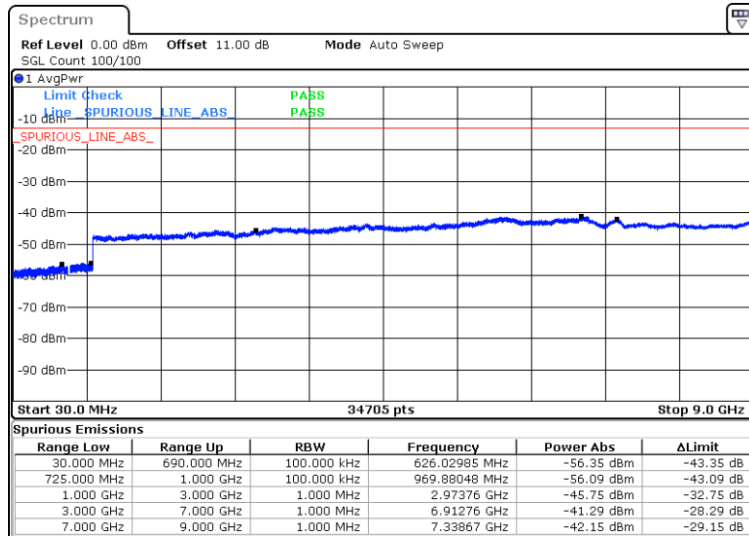


Date: 27.MAR.2024 14:43:06



Date: 27.MAR.2024 15:19:53

Highest Channel / QPSK



Date: 27.MAR.2024 15:20:54



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	0.0042	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0107	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0124	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

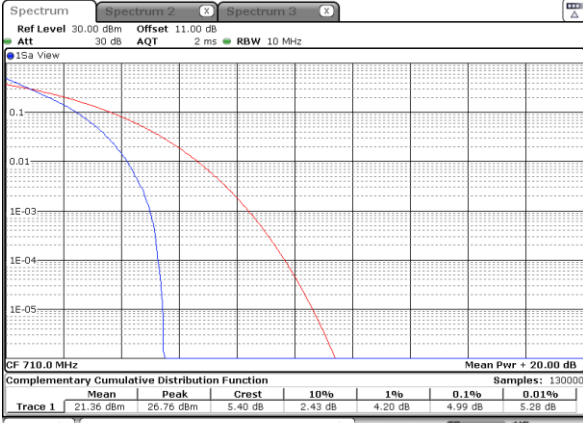
Peak-to-Average Ratio

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	4.99	5.77	6.20	6.72	PASS



LTE Band 17 / 10MHz / QPSK

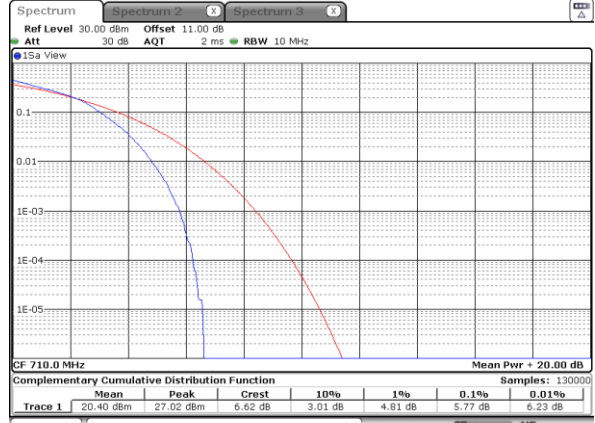
Middle Channel / Full RB



Date: 7.MAR.2024 11:31:41

LTE Band 17 / 10MHz / 16QAM

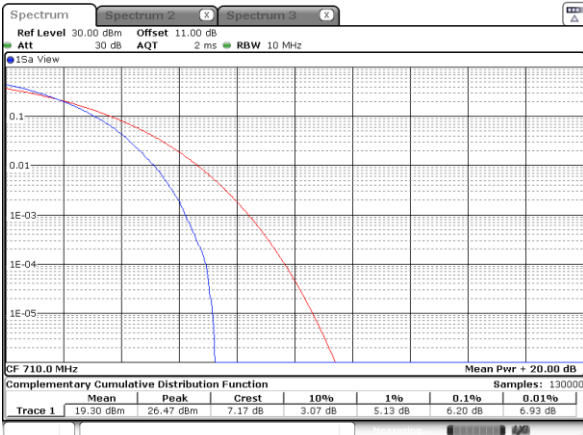
Middle Channel / Full RB



Date: 7.MAR.2024 11:31:17

LTE Band 17 / 10MHz / 64QAM

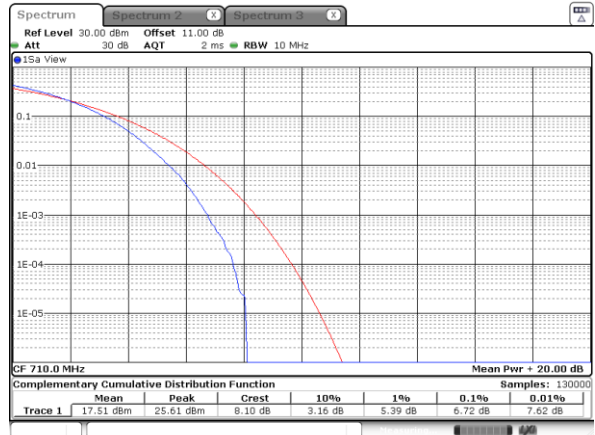
Middle Channel / Full RB



Date: 7.MAR.2024 11:32:05

LTE Band 17 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 7.MAR.2024 14:23:40



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	-	-	-	-	4.98	4.92	9.92	9.89	-	-	-	-
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	-	-	-	-	4.95	5.05	9.75	9.91	-	-	-	-