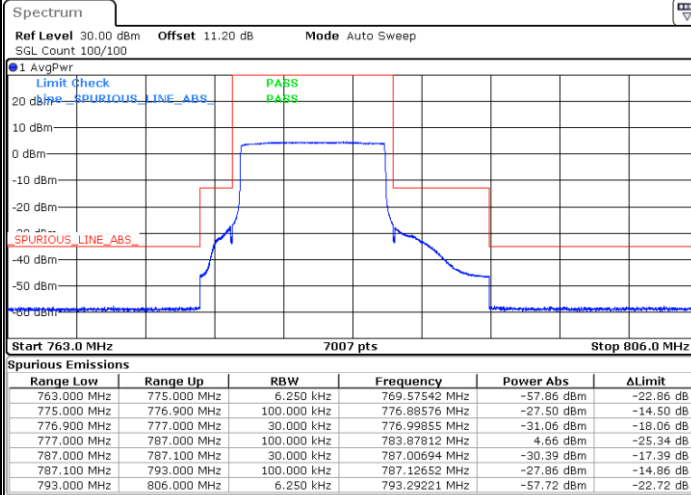




IC LTE Band 13 / 10MHz / QPSK

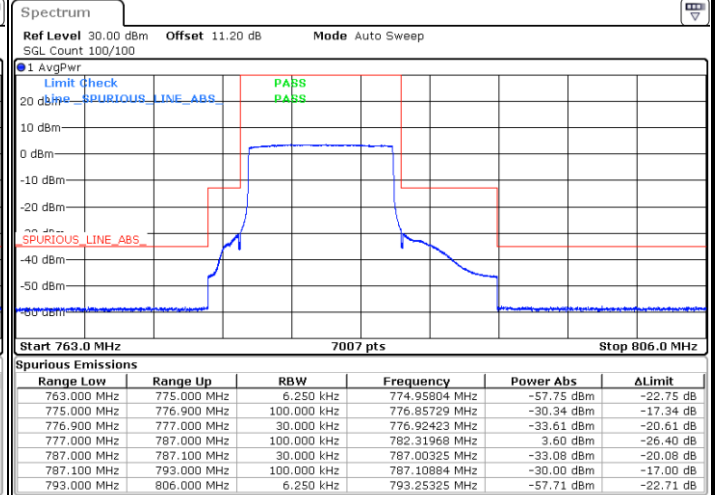
Band Edge / Full RB



Date: 4 JUN.2024 15:29:20

IC LTE Band 13 / 10MHz / 16QAM

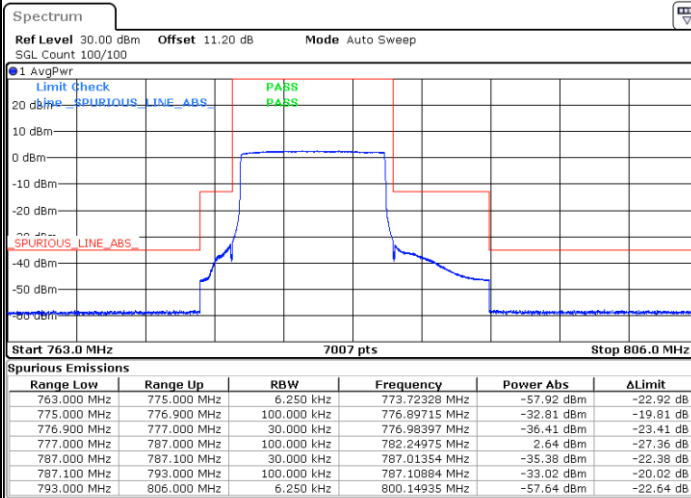
Band Edge / Full RB



Date: 4 JUN.2024 15:30:39

IC LTE Band 13 / 10MHz / 64QAM

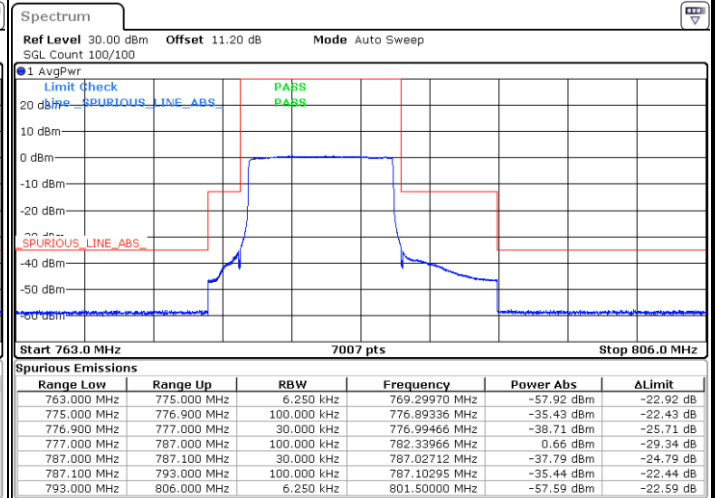
Band Edge / Full RB



Date: 4 JUN.2024 15:31:53

IC LTE Band 13 / 10MHz / 256QAM

Band Edge / Full RB



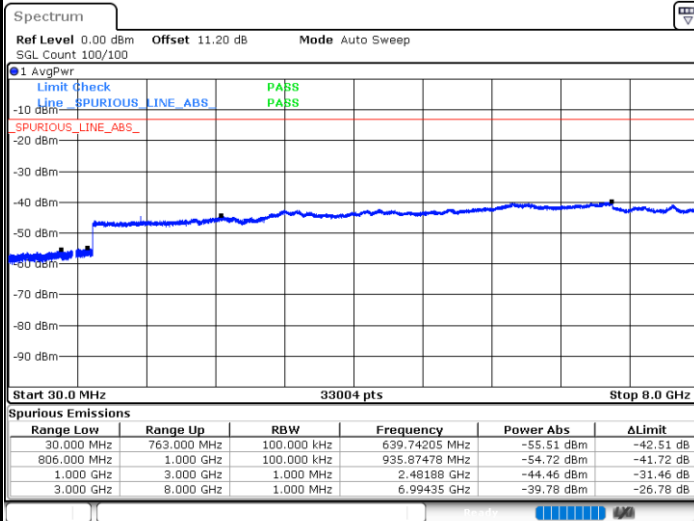
Date: 4 JUN.2024 15:38:29



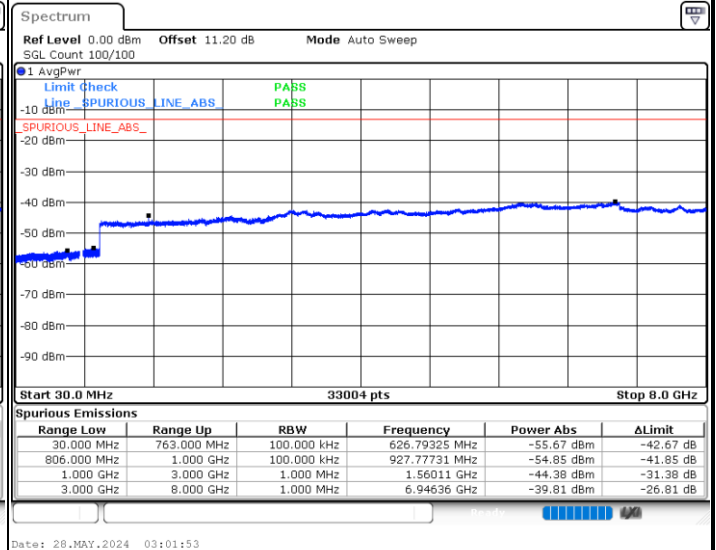
Conducted Spurious Emission

LTE Band 13 / 5MHz

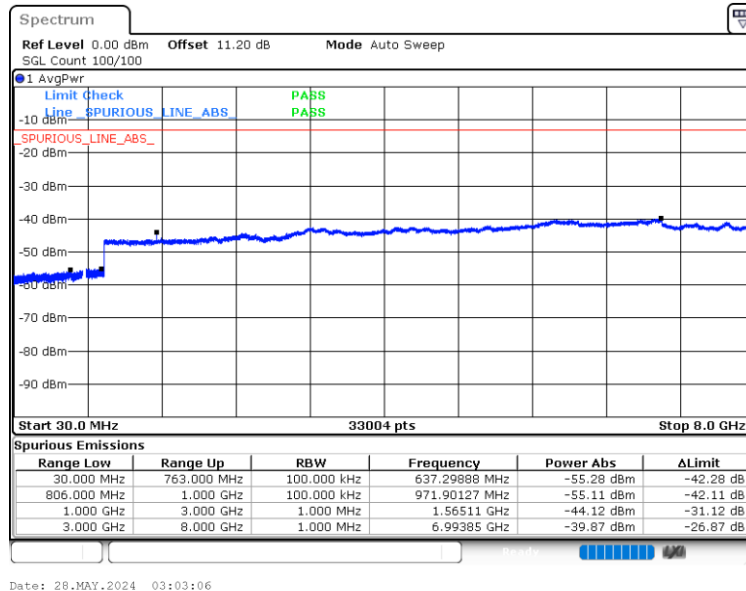
Lowest Channel / QPSK



Middle Channel / QPSK



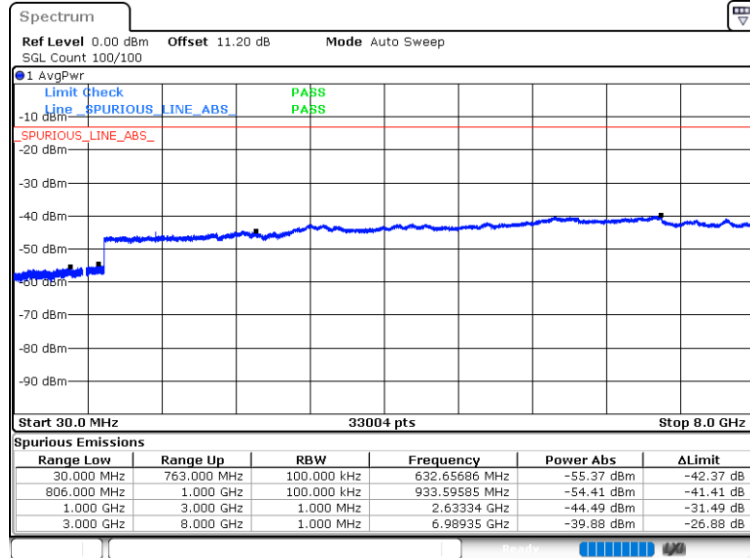
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 28.MAY.2024 03:14:01

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0064	
30	Normal Voltage	0.0049	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0060	
-10	Normal Voltage	0.0097	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

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 14

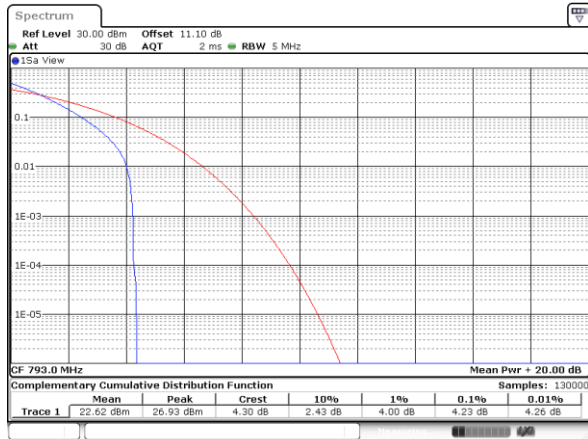
Peak-to-Average Ratio

Mode	LTE Band 14 / 5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.23	5.48	6.41	6.49	PASS
Mode	LTE Band 14 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.20	5.45	6.17	6.52	PASS



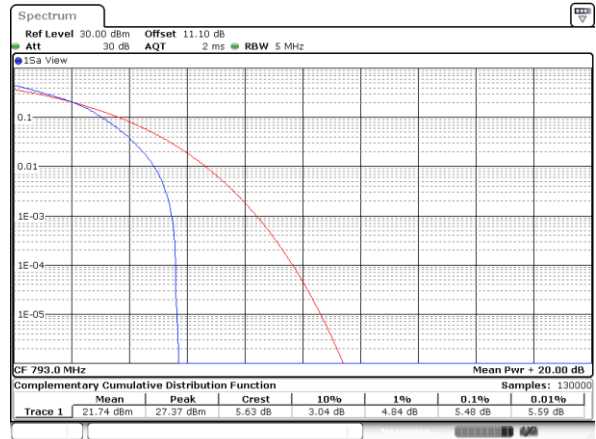
LTE Band 14 / 5MHz / QPSK

Middle Channel / Full RB



LTE Band 14 / 5MHz / 16QAM

Middle Channel / Full RB



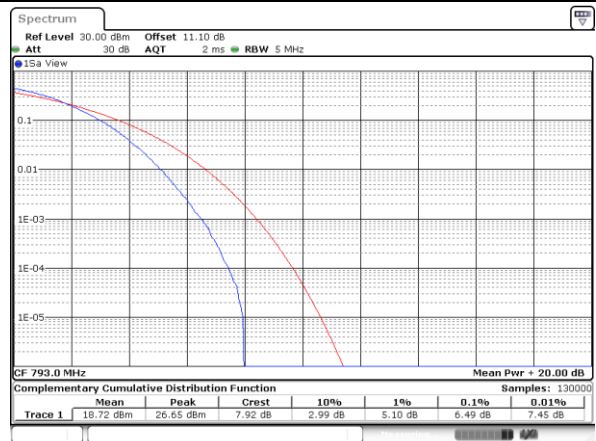
LTE Band 14 / 5MHz / 64QAM

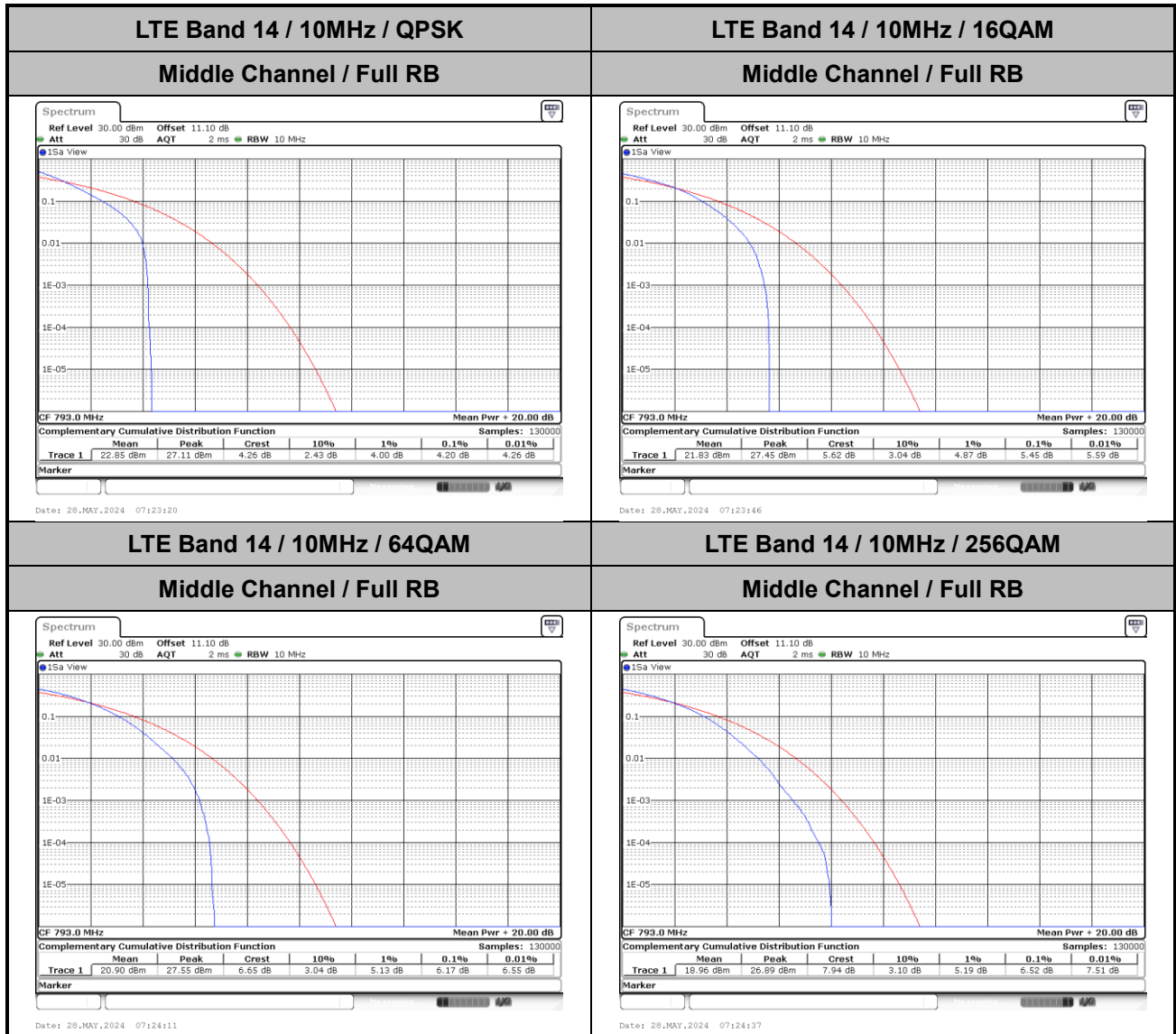
Middle Channel / Full RB



LTE Band 14 / 5MHz / 256QAM

Middle Channel / Full RB





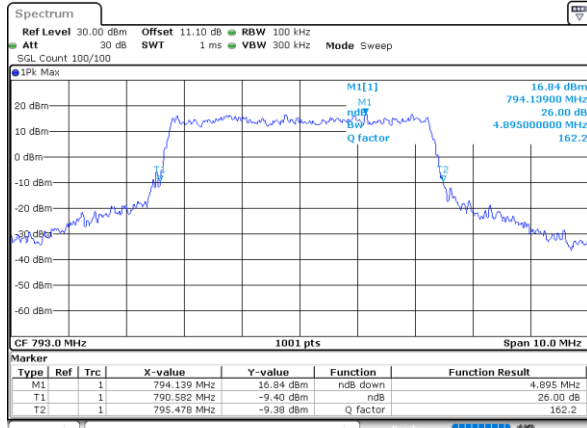
**26dB Bandwidth**

Mode	LTE Band 14 : 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	-	-	-	-	4.89	4.99	9.83	9.84	-	-	-	-
Mode	LTE Band 14 : 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	-	-	-	-	4.97	4.96	9.89	9.86	-	-	-	-



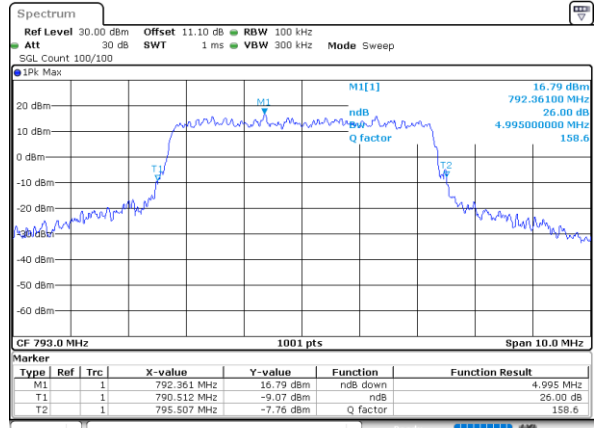
LTE Band 14

Middle Channel / 5MHz / QPSK



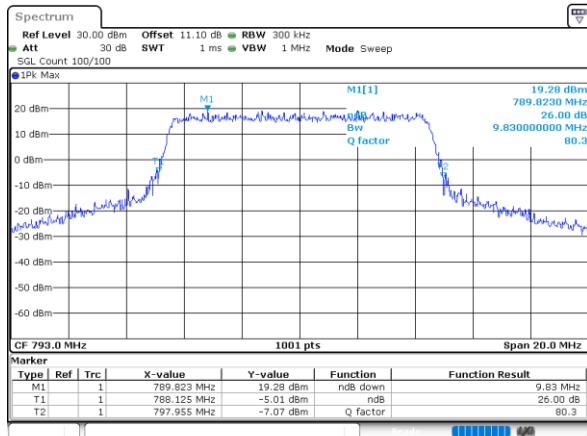
Date: 28.MAY.2024 04:10:00

Middle Channel / 5MHz / 16QAM



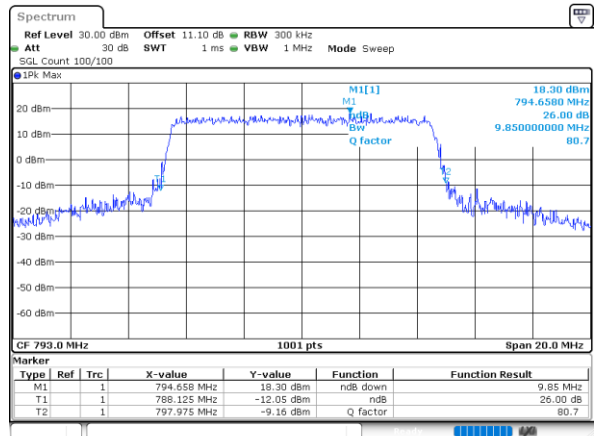
Date: 28.MAY.2024 04:10:25

Middle Channel / 10MHz / QPSK



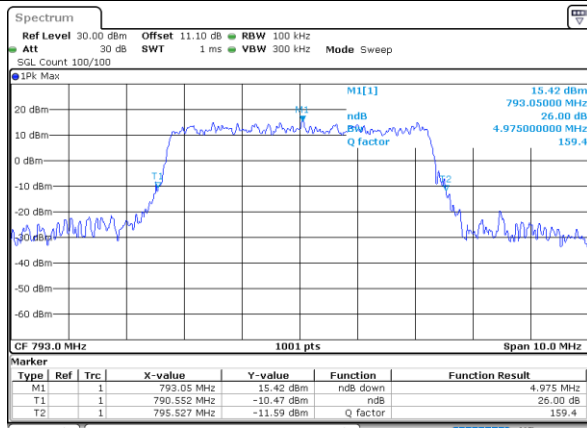
Date: 28.MAY.2024 07:21:40

Middle Channel / 10MHz / 16QAM



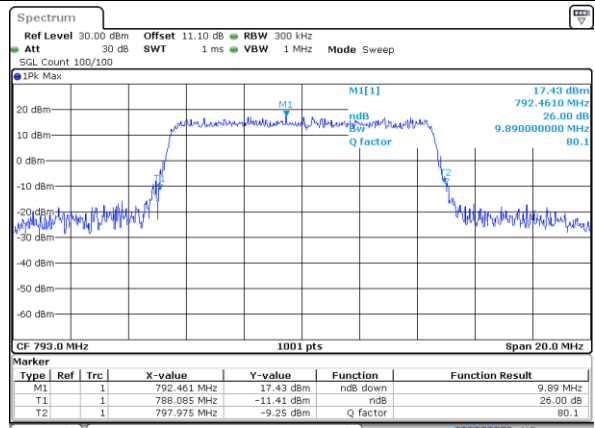
Date: 28.MAY.2024 07:22:05

Middle Channel / 5MHz / 64QAM



Date: 28.MAY.2024 04:10:50

Middle Channel / 10MHz / 64QAM

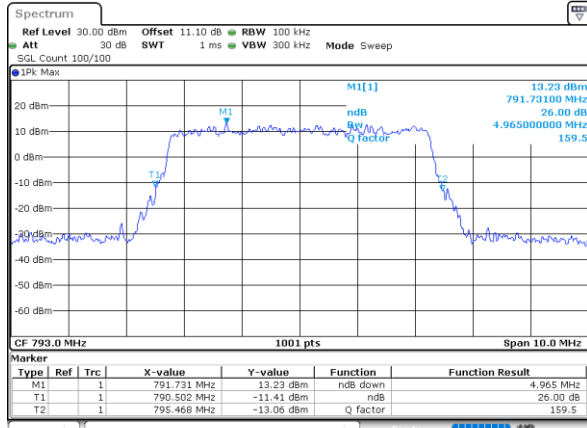


Date: 28.MAY.2024 07:22:30



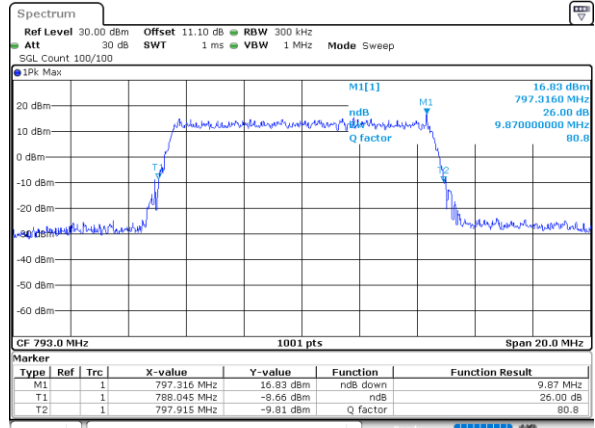
LTE Band 14

Middle Channel / 5MHz / 256QAM



Date: 28.MAY.2024 04:11:14

Middle Channel / 10MHz / 256QAM



Date: 28.MAY.2024 07:22:54

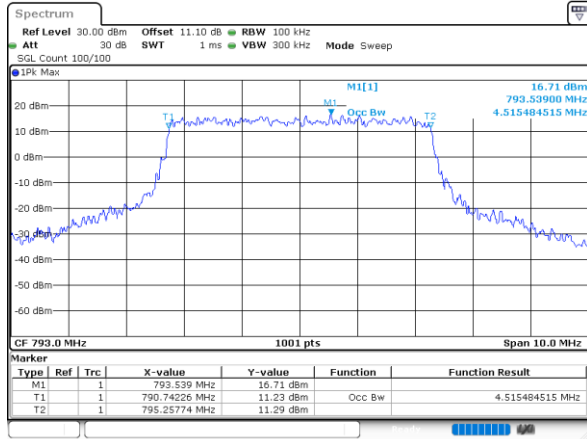
**Occupied Bandwidth**

Mode	LTE Band 14 : 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	-	-	-	-	4.51	4.49	9.03	9.01	-	-	-	-
Mode	LTE Band 14 : 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	9.05	9.05	-	-	-	-

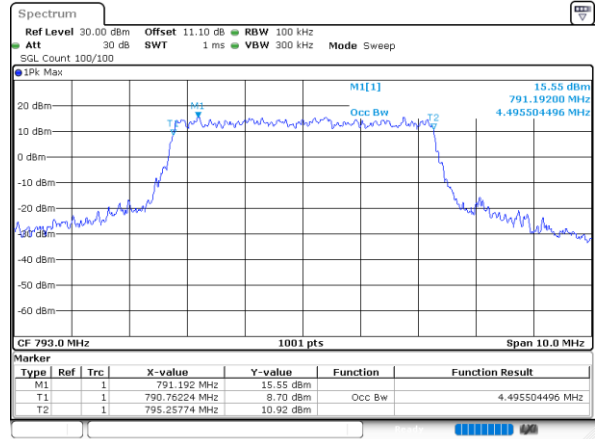


LTE Band 14

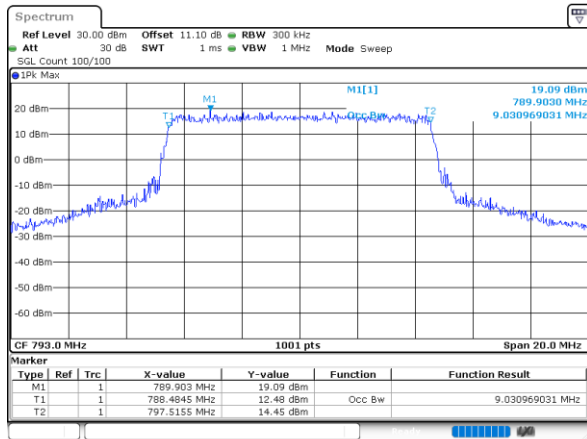
Middle Channel / 5MHz / QPSK



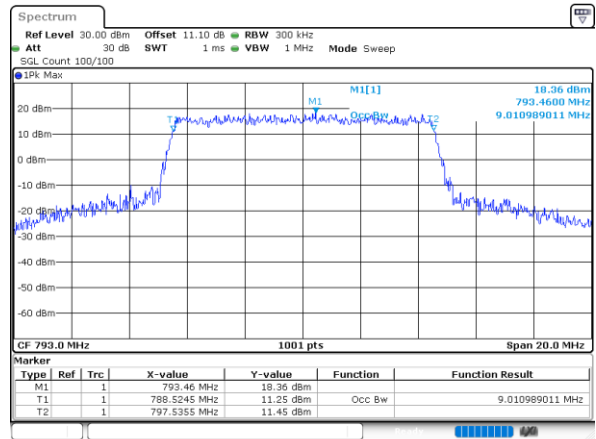
Middle Channel / 5MHz / 16QAM



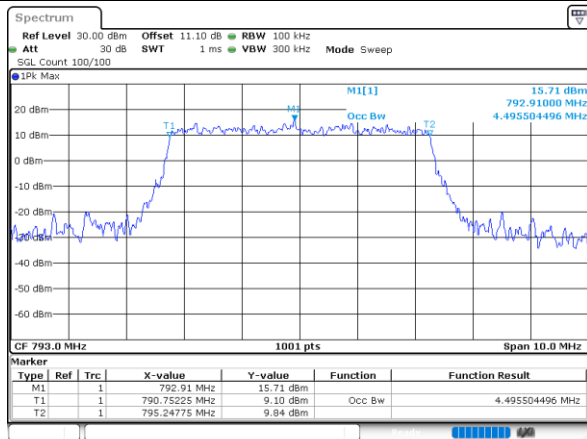
Middle Channel / 10MHz / QPSK



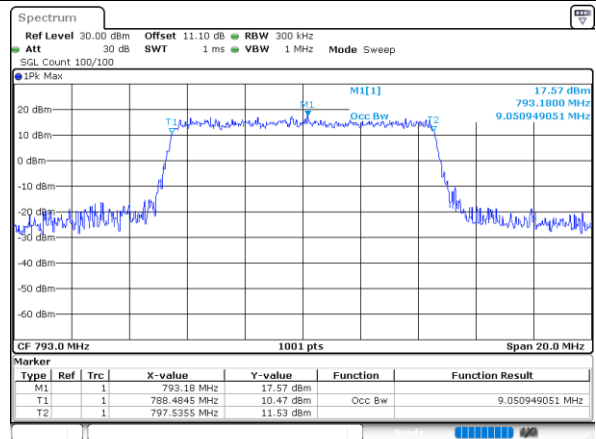
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



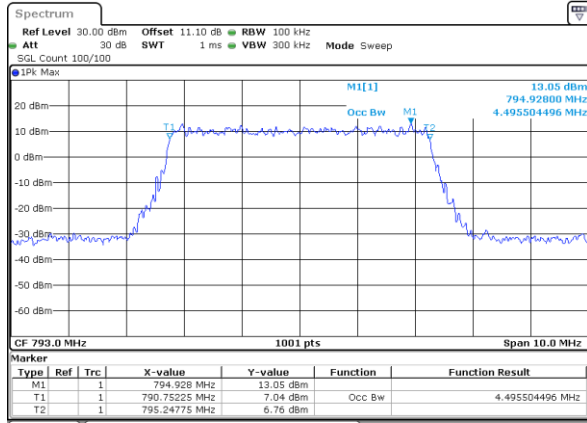
Middle Channel / 10MHz / 64QAM





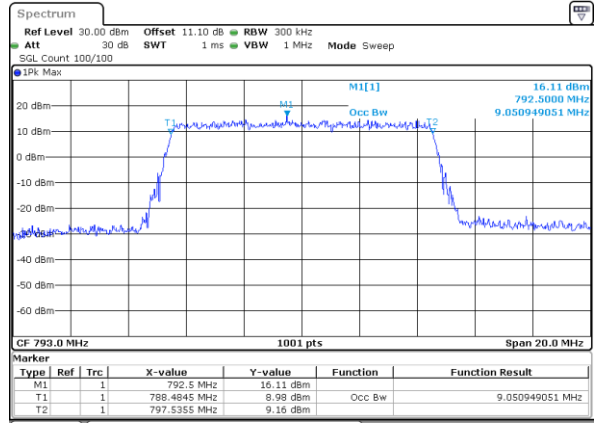
LTE Band 14

Middle Channel / 5MHz / 256QAM



Date: 28.MAY.2024 04:09:36

Middle Channel / 10MHz / 256QAM



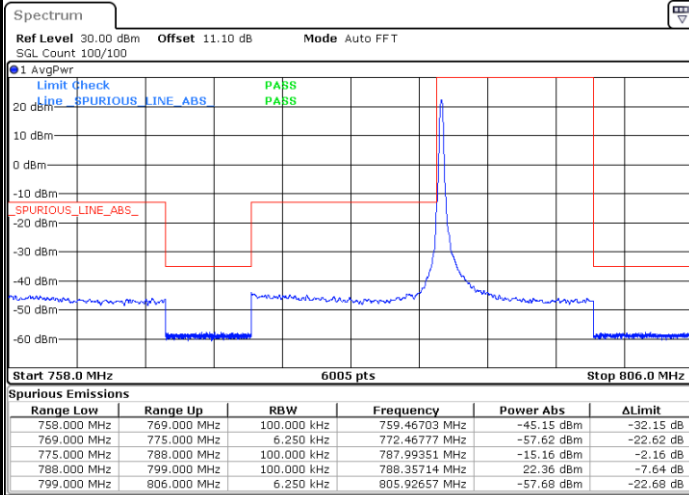
Date: 28.MAY.2024 07:12:16



Conducted Band Edge

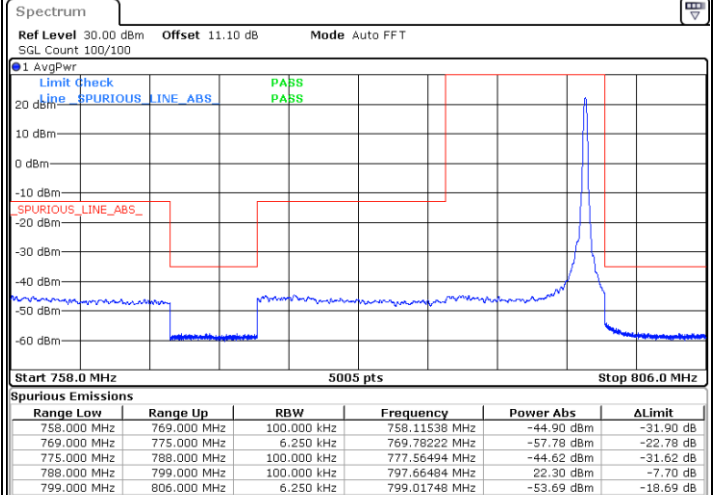
LTE Band 14 / 5MHz / QPSK

Lowest Band Edge / 1 RB



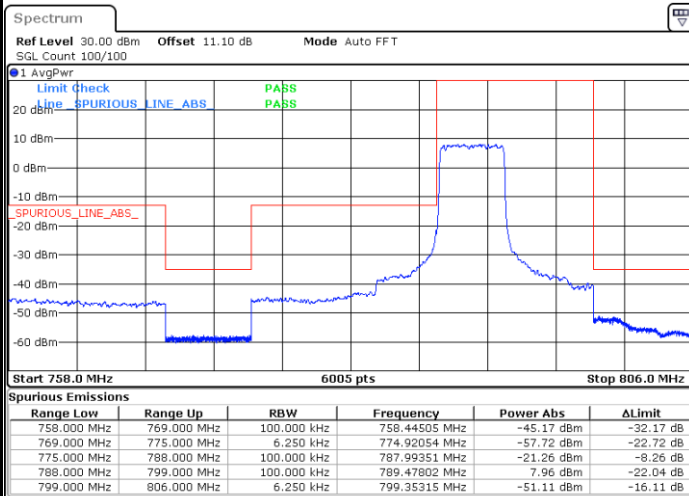
Date: 28.MAY.2024 03:19:18

Highest Band Edge / 1 RB



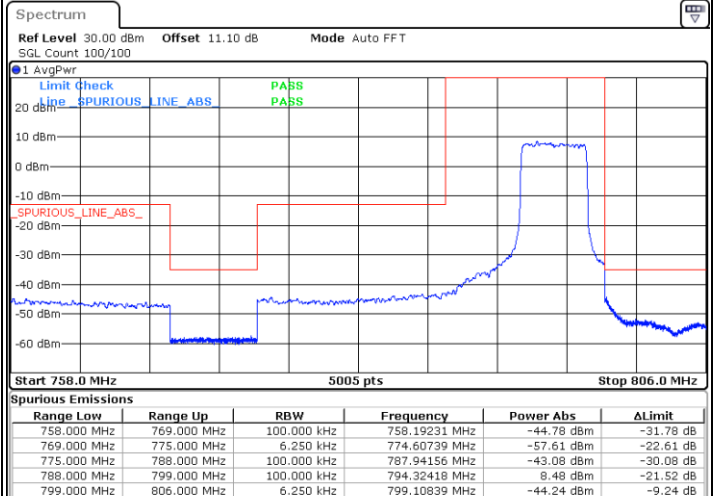
Date: 28.MAY.2024 03:27:19

Lowest Band Edge / Full RB



Date: 28.MAY.2024 03:15:39

Highest Band Edge / Full RB

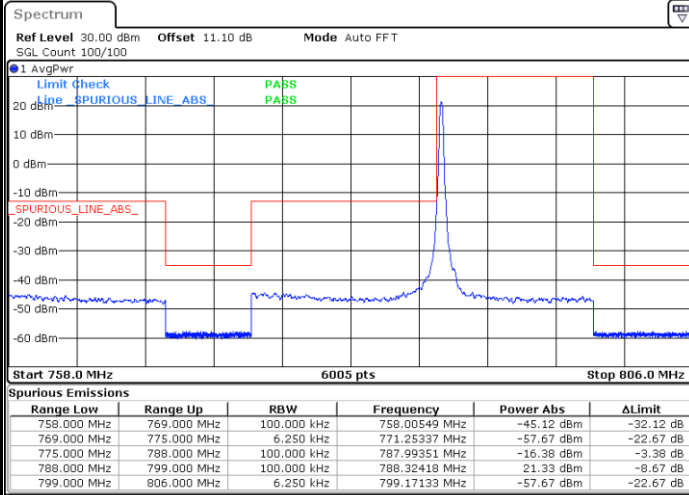


Date: 28.MAY.2024 03:23:39

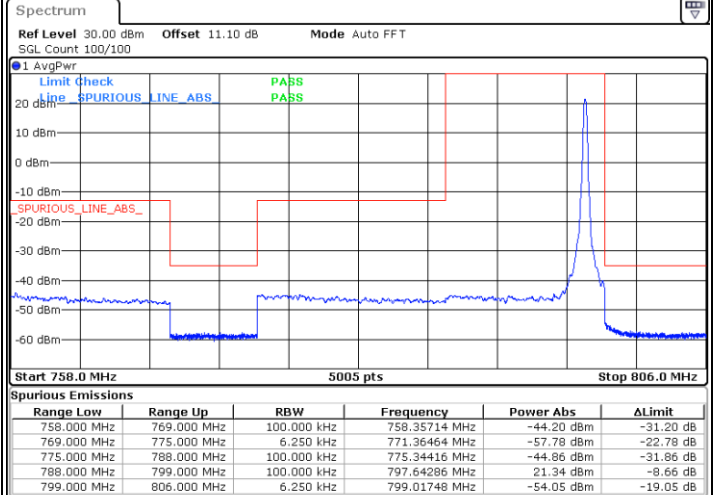


LTE Band 14 / 5MHz / 16QAM

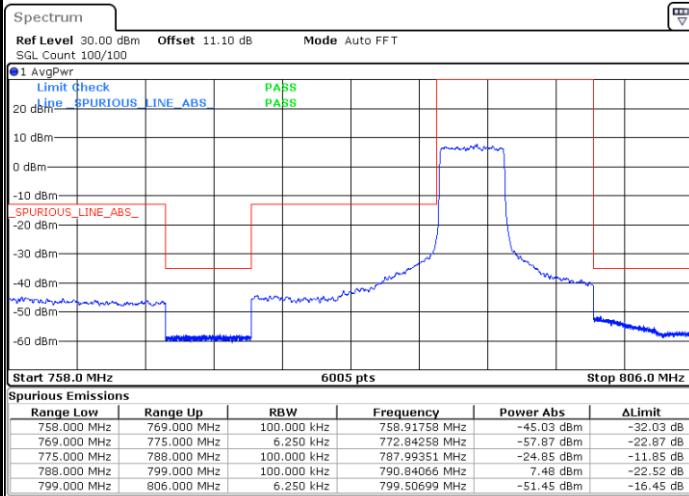
Lowest Band Edge / 1 RB



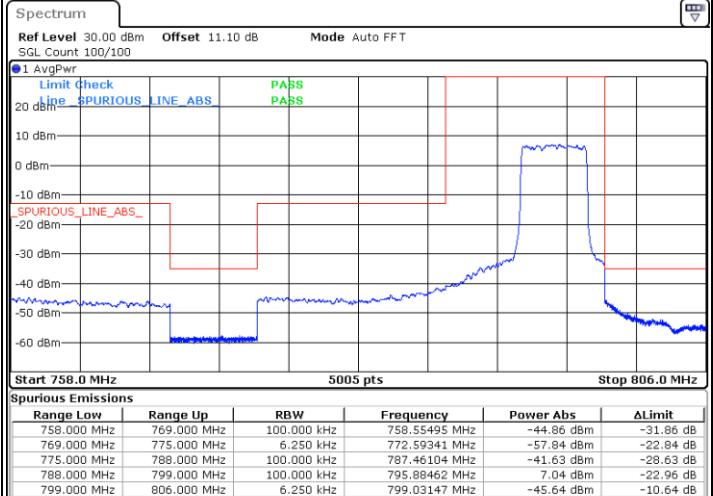
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



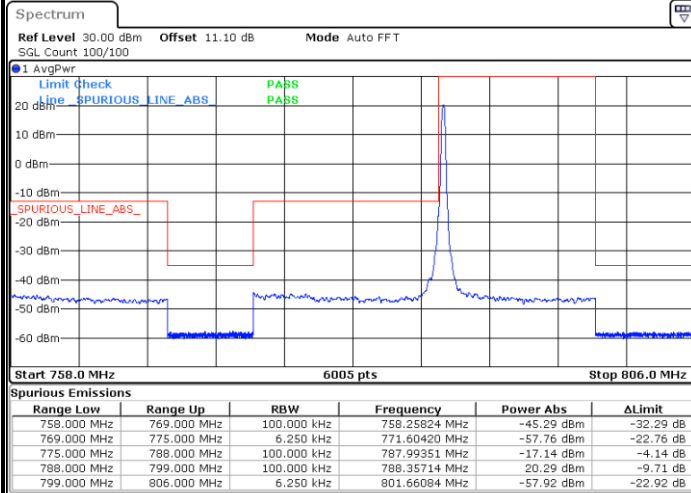
Highest Band Edge / Full RB



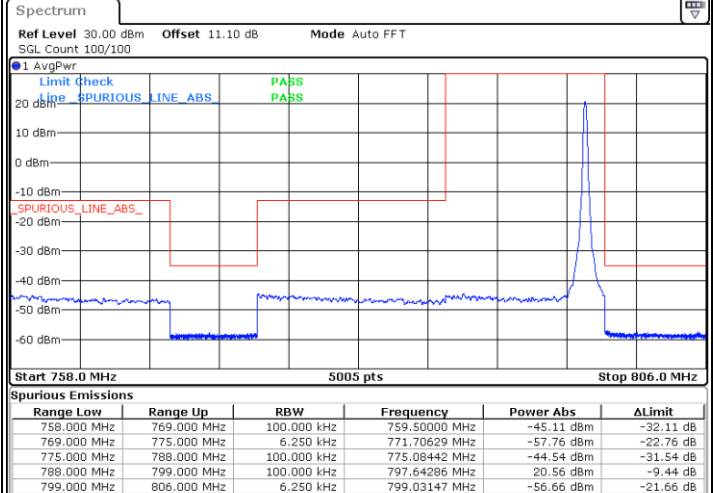


LTE Band 14 / 5MHz / 64QAM

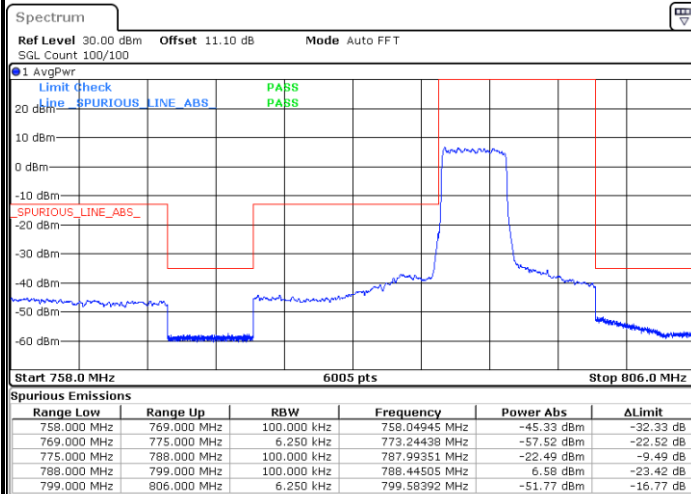
Lowest Band Edge / 1 RB



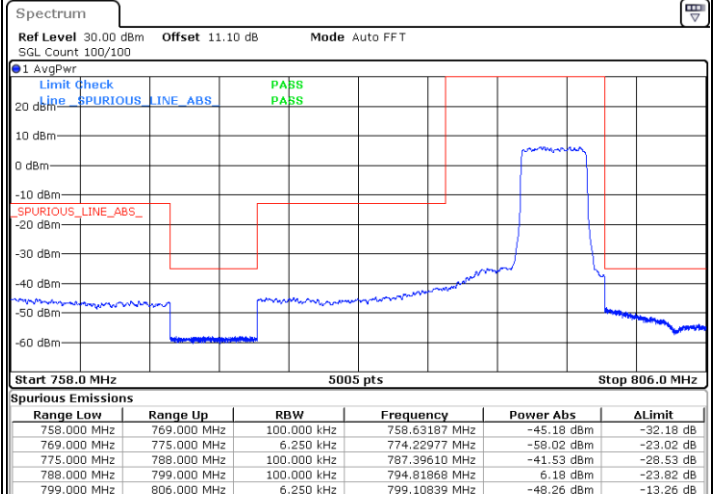
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



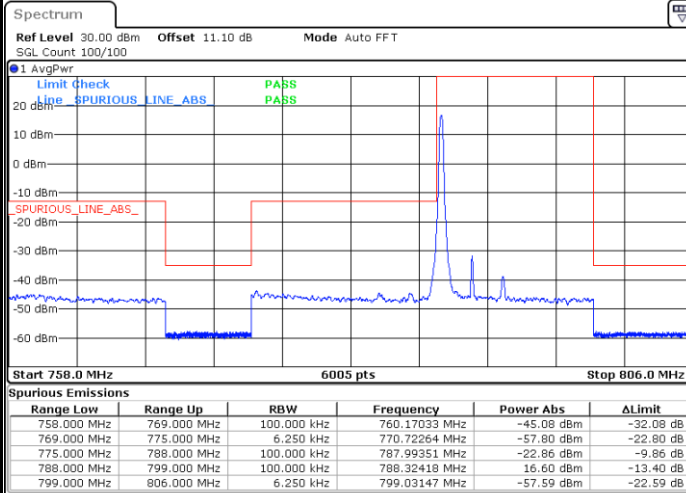
Highest Band Edge / Full RB





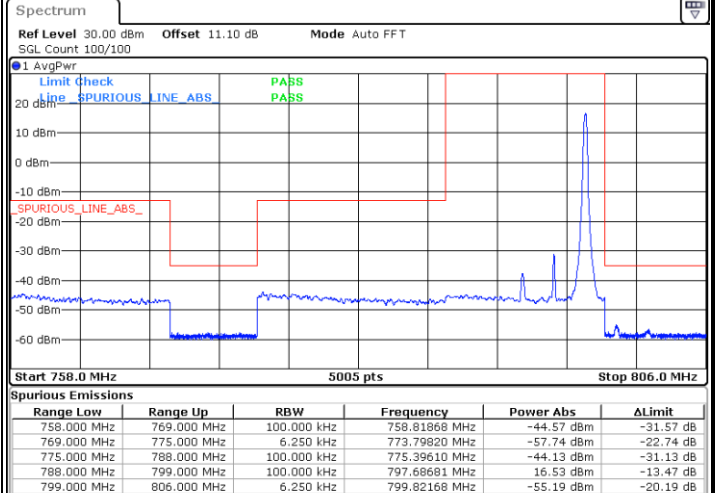
LTE Band 14 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



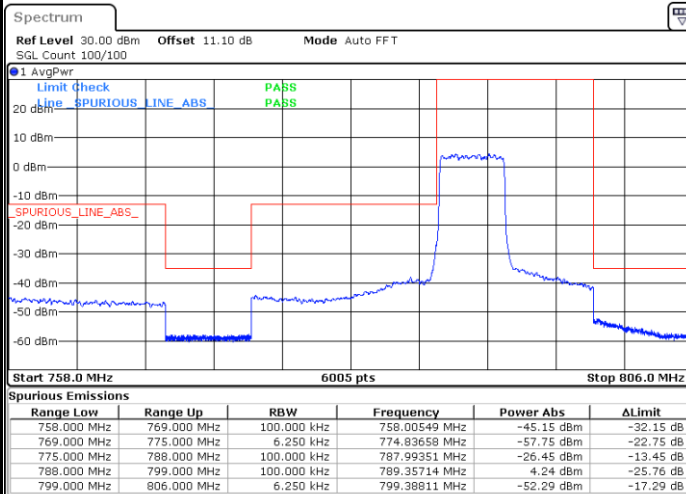
Date: 28.MAY.2024 03:22:01

Highest Band Edge / 1 RB



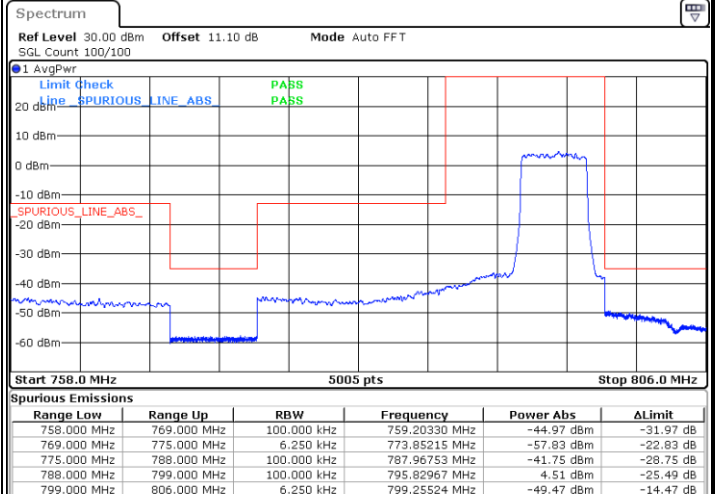
Date: 28.MAY.2024 03:30:01

Lowest Band Edge / Full RB



Date: 28.MAY.2024 03:18:22

Highest Band Edge / Full RB

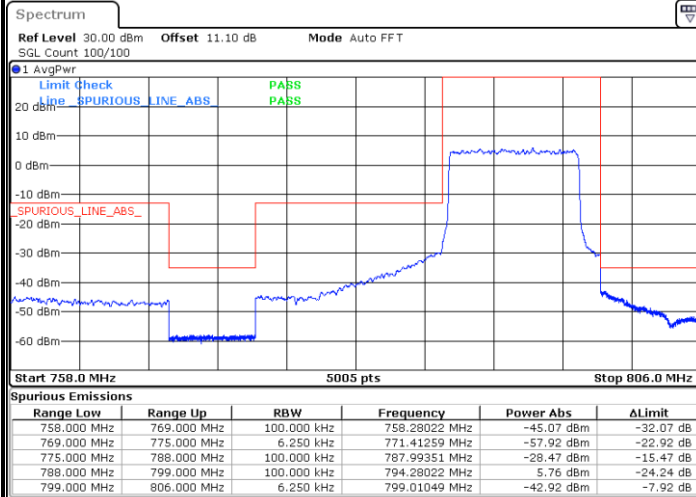


Date: 28.MAY.2024 03:26:21



LTE Band 14 / 10MHz / QPSK

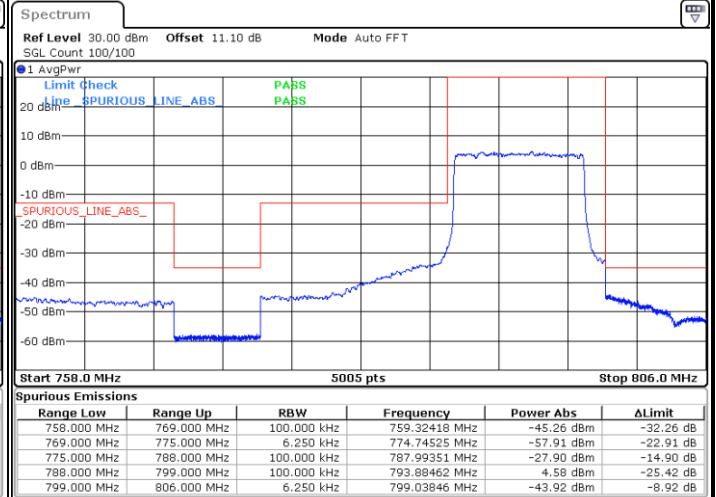
Band Edge / Full RB



Date: 28.MAY.2024 07:12:47

LTE Band 14 / 10MHz / 16QAM

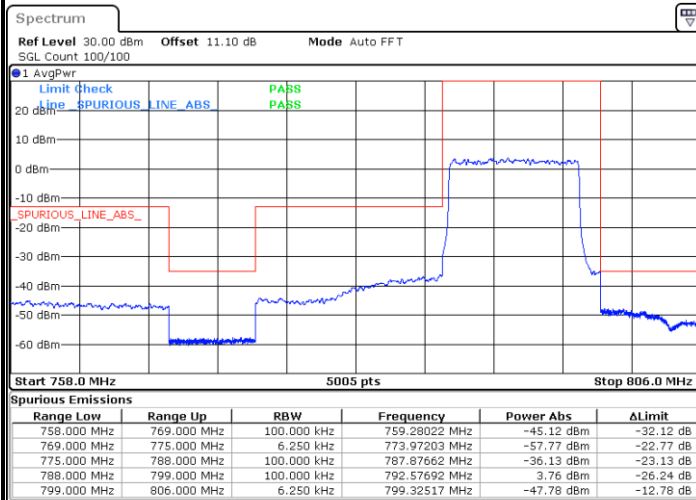
Band Edge / Full RB



Date: 28.MAY.2024 07:13:41

LTE Band 14 / 10MHz / 64QAM

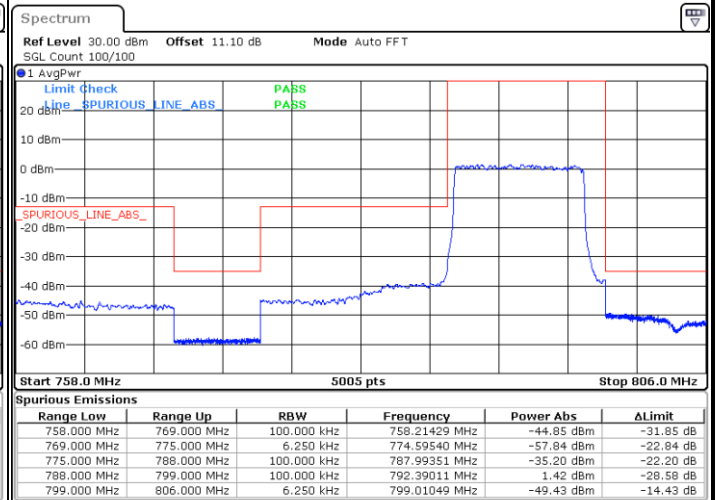
Band Edge / Full RB



Date: 28.MAY.2024 07:14:34

LTE Band 14 / 10MHz / 256QAM

Band Edge / Full RB



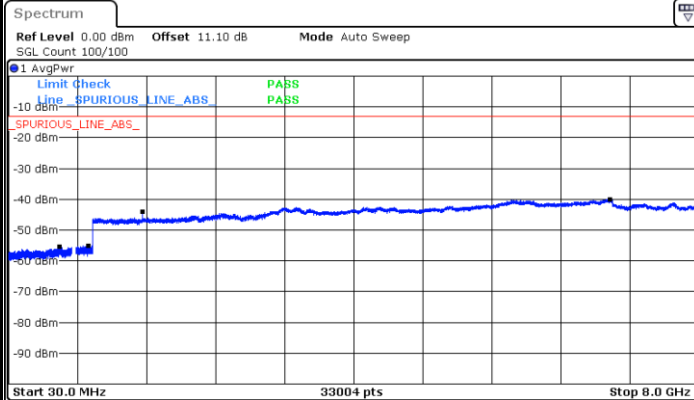
Date: 28.MAY.2024 07:15:27



Conducted Spurious Emission

LTE Band 14 / 5MHz

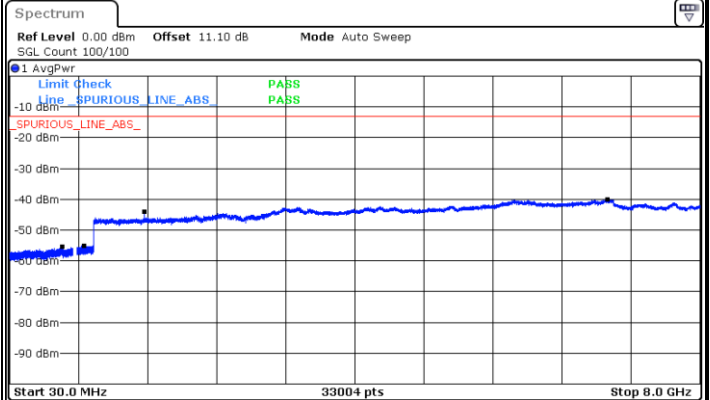
Lowest Channel / QPSK



Spurious Emissions						
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	
30.000 MHz	758.000 MHz	100.000 kHz	612.67662 MHz	-55.47 dBm	-42.47 dB	
805.000 MHz	1.000 GHz	100.000 kHz	948.21607 MHz	-54.97 dBm	-41.97 dB	
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-44.12 dBm	-31.12 dB	
3.000 GHz	8.000 GHz	1.000 MHz	6.97535 GHz	-40.13 dBm	-27.13 dB	

Date: 28.MAY.2024 04:12:28

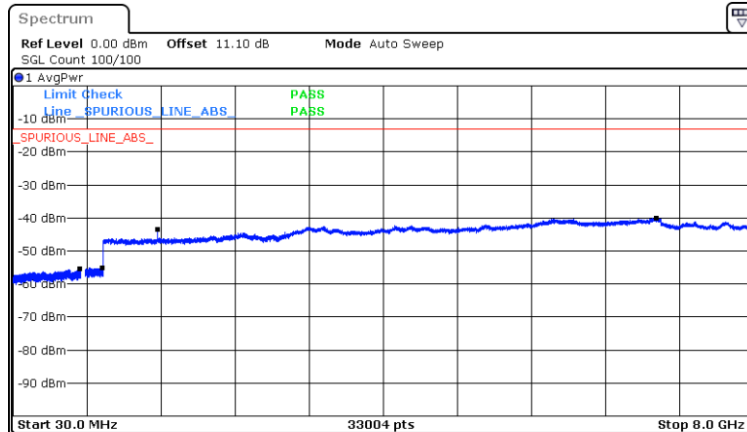
Middle Channel / QPSK



Spurious Emissions						
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	
30.000 MHz	758.000 MHz	100.000 kHz	630.77835 MHz	-55.49 dBm	-42.49 dB	
805.000 MHz	1.000 GHz	100.000 kHz	889.14584 MHz	-55.03 dBm	-42.03 dB	
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-43.94 dBm	-30.94 dB	
3.000 GHz	8.000 GHz	1.000 MHz	6.92936 GHz	-39.98 dBm	-26.98 dB	

Date: 28.MAY.2024 04:13:41

Highest Channel / QPSK



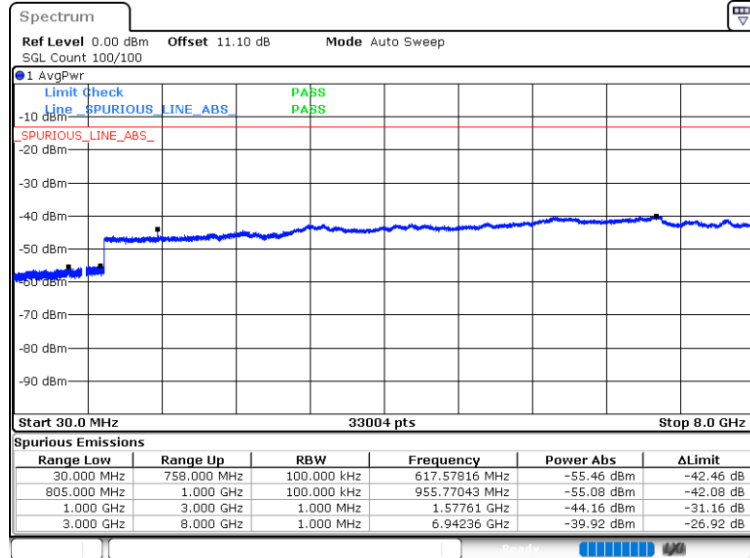
Spurious Emissions						
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	
30.000 MHz	758.000 MHz	100.000 kHz	744.62996 MHz	-55.44 dBm	-42.44 dB	
805.000 MHz	1.000 GHz	100.000 kHz	987.69370 MHz	-55.10 dBm	-42.10 dB	
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-43.47 dBm	-30.47 dB	
3.000 GHz	8.000 GHz	1.000 MHz	6.95185 GHz	-40.01 dBm	-27.01 dB	

Date: 28.MAY.2024 04:14:54

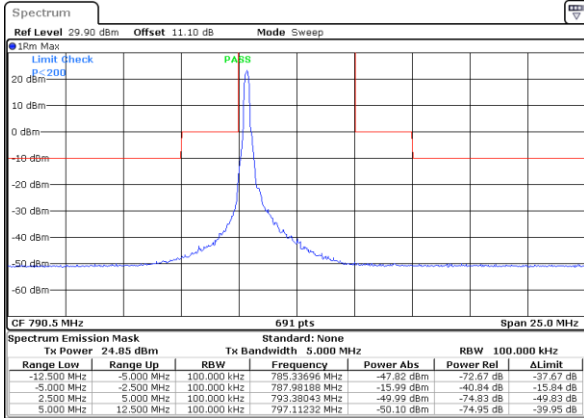


LTE Band 14 / 10MHz

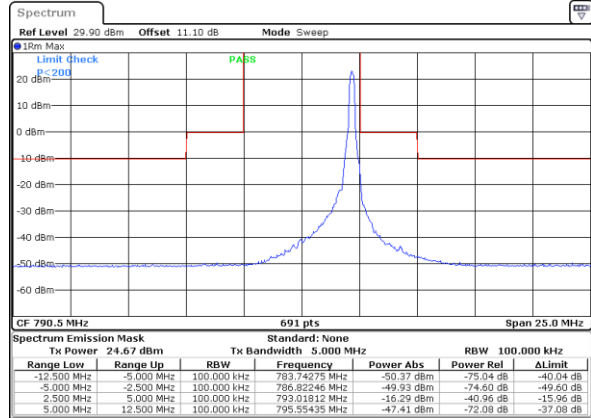
Middle Channel / QPSK



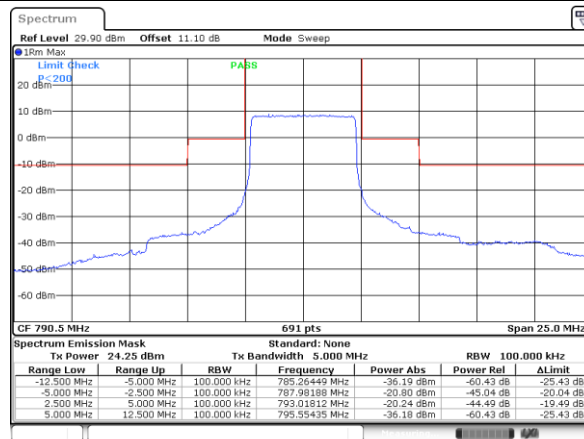
Date: 28.MAY.2024 07:25:50

**Mask****LTE Band 14 / 5MHz / QPSK****Lowest Channel / 1RB**

Date: 28.MAY.2024 03:35:22



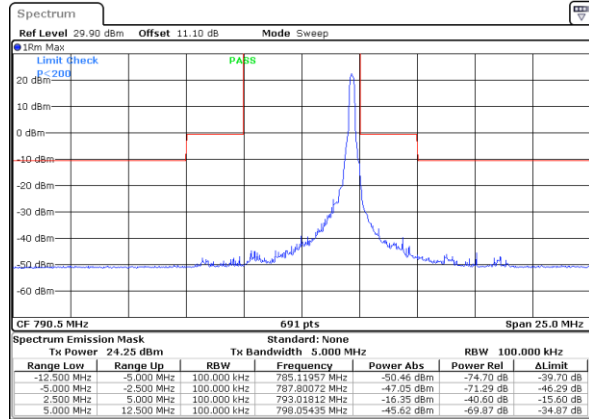
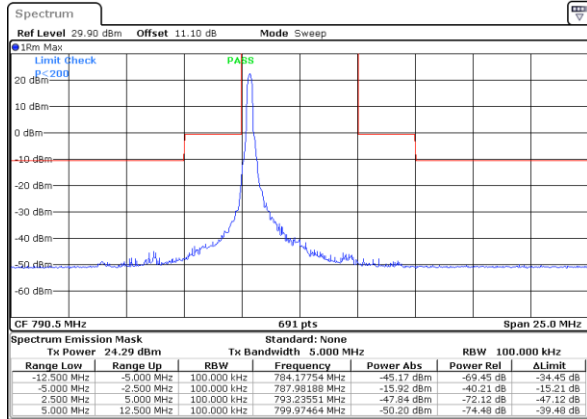
Date: 28.MAY.2024 03:39:37

Lowest Channel / Full RB

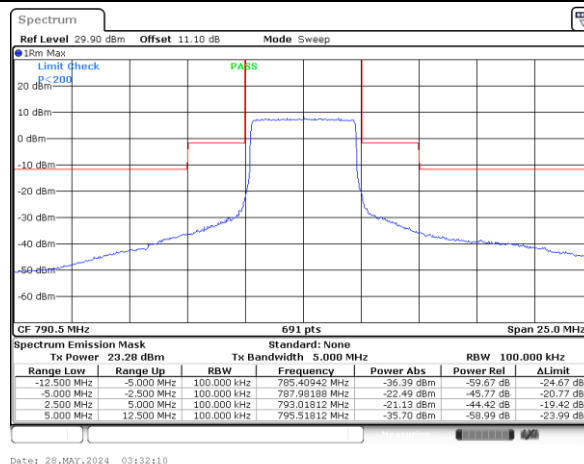
Date: 28.MAY.2024 03:31:07

LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB



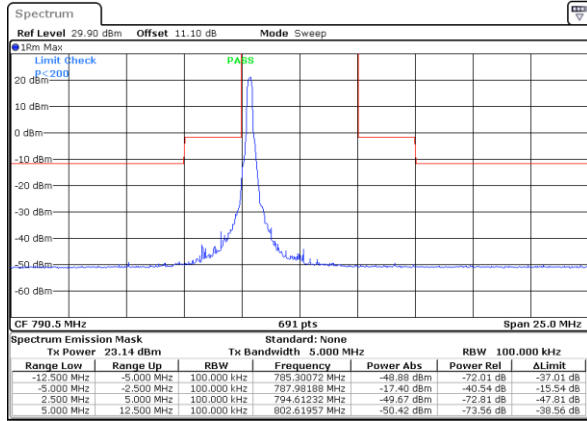
Lowest Channel / Full RB



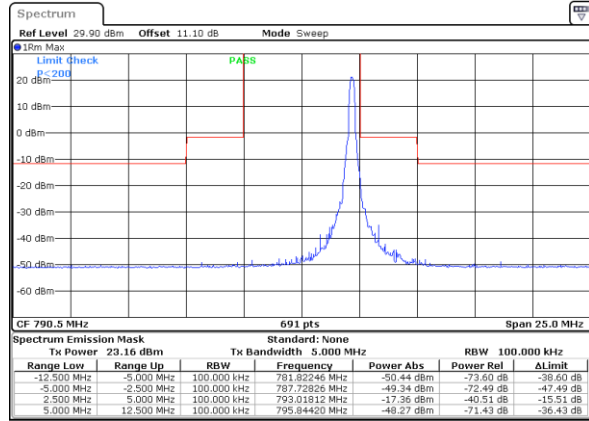


LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB

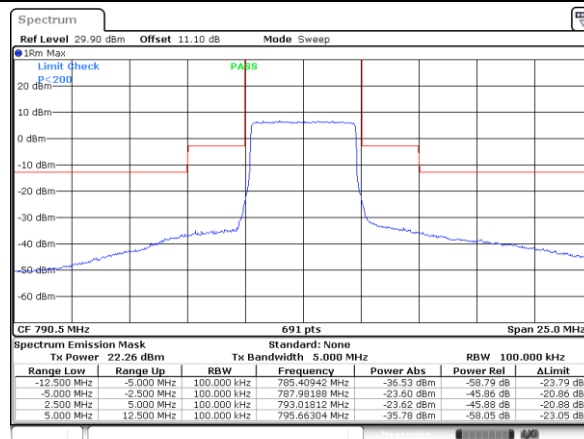


Date: 28,MAY,2024 03:37:28



Date: 28,MAY,2024 03:41:43

Lowest Channel / Full RB

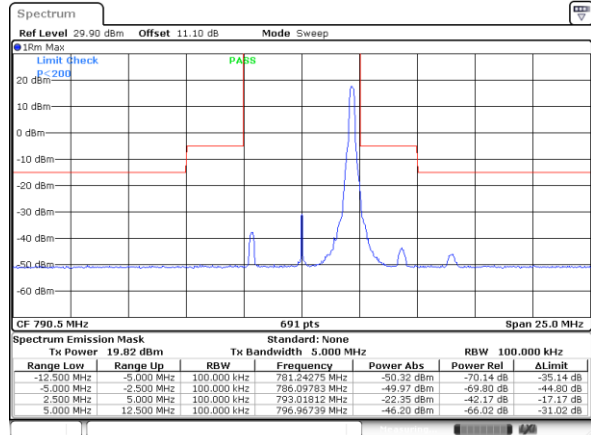
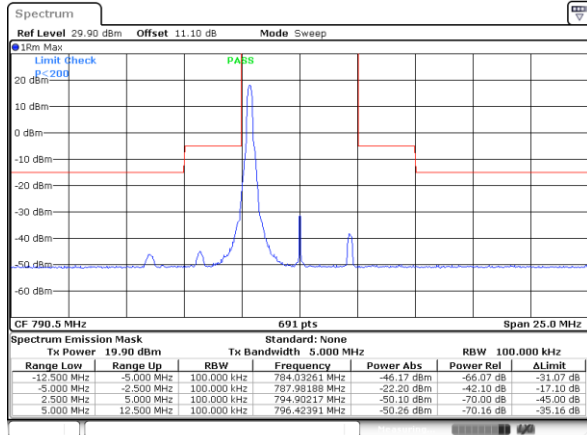


Date: 28,MAY,2024 03:33:13

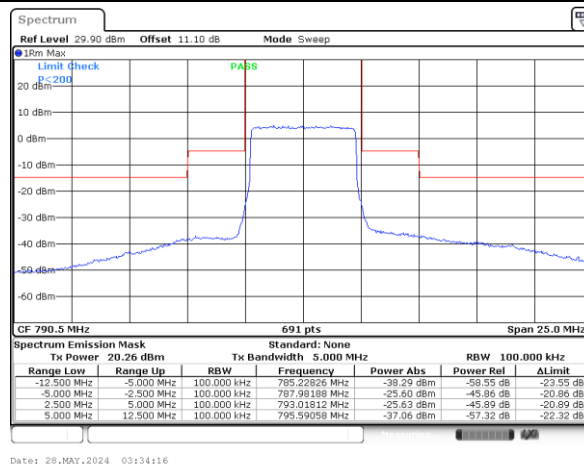


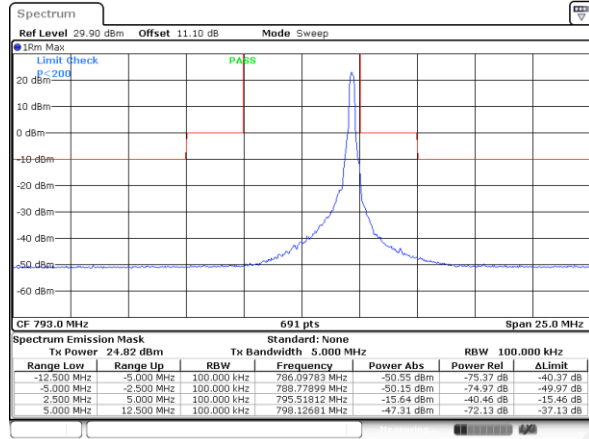
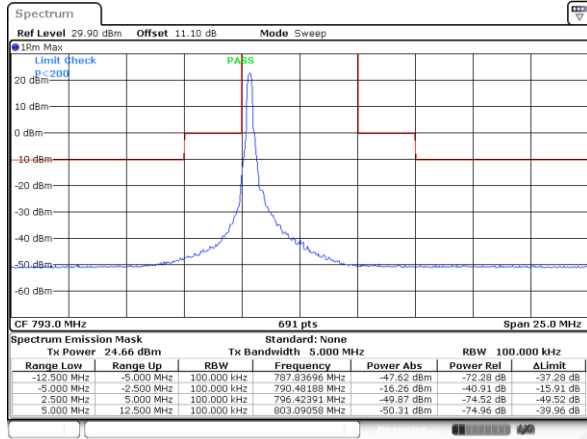
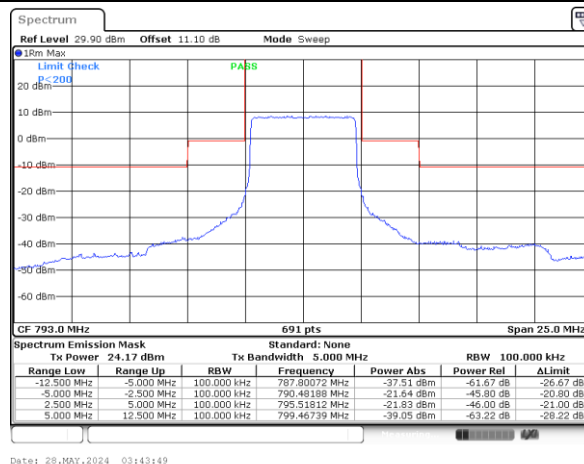
LTE Band 14 / 5MHz / 256QAM

Lowest Channel / 1RB



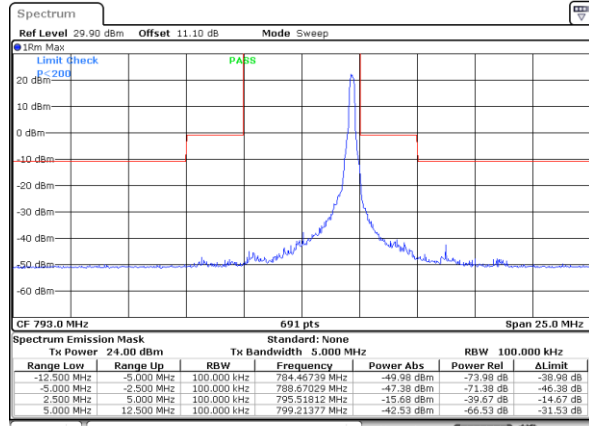
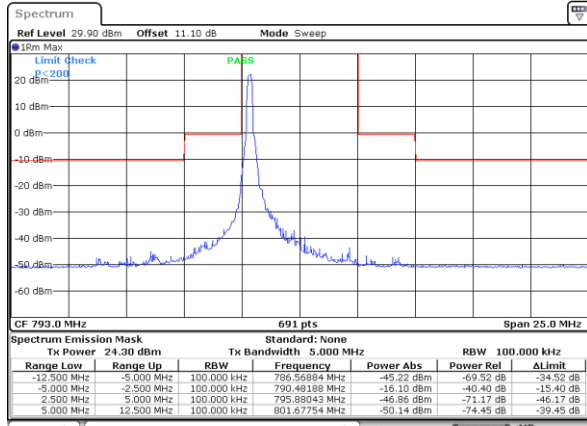
Lowest Channel / Full RB



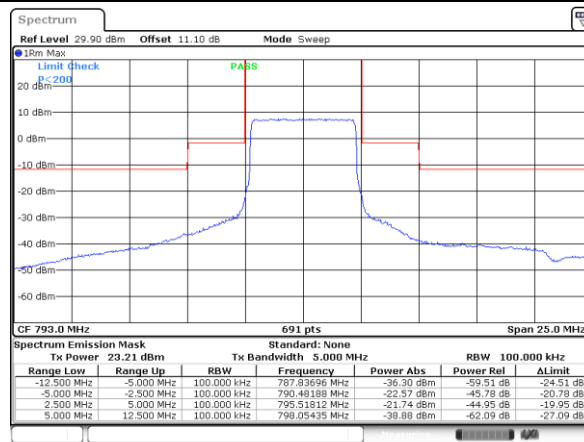
LTE Band 14 / 5MHz / QPSK
Middle Channel / 1RB

Middle Channel / Full RB


LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

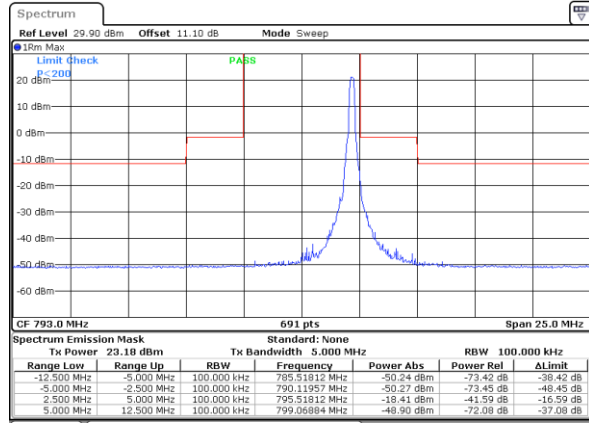
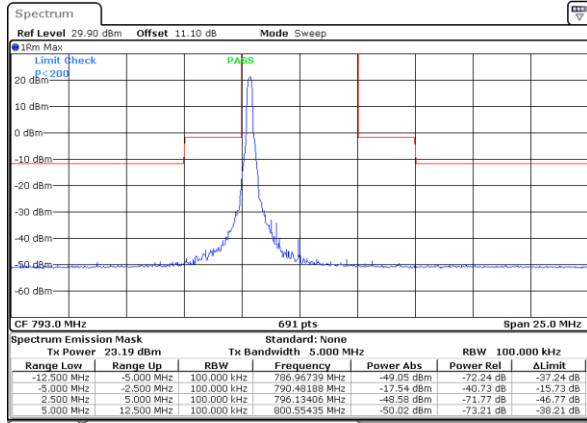


Middle Channel / Full RB

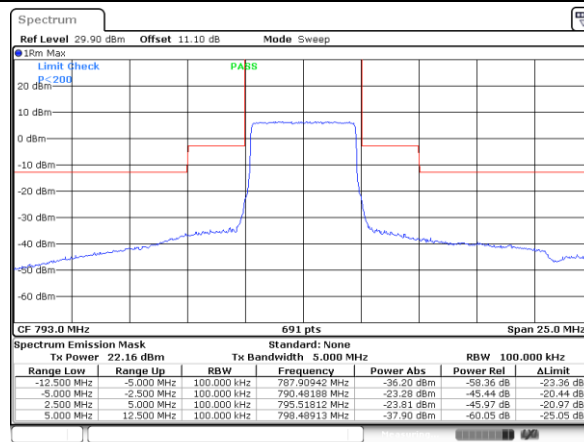


LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB



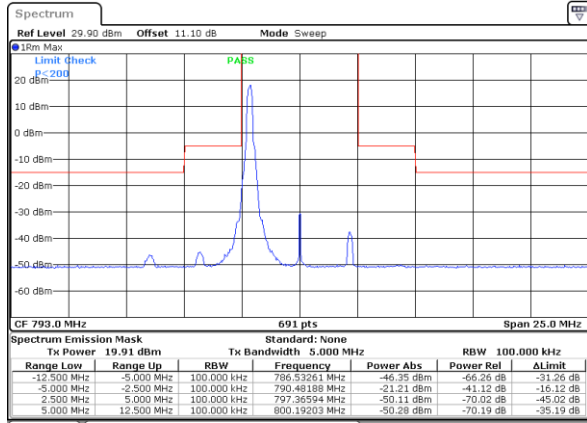
Middle Channel / Full RB



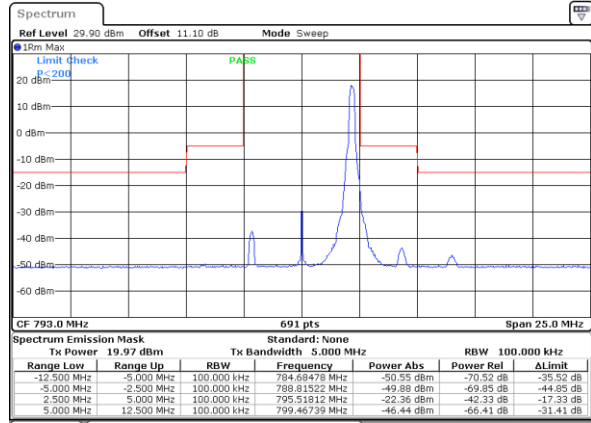


LTE Band 14 / 5MHz / 256QAM

Middle Channel / 1RB

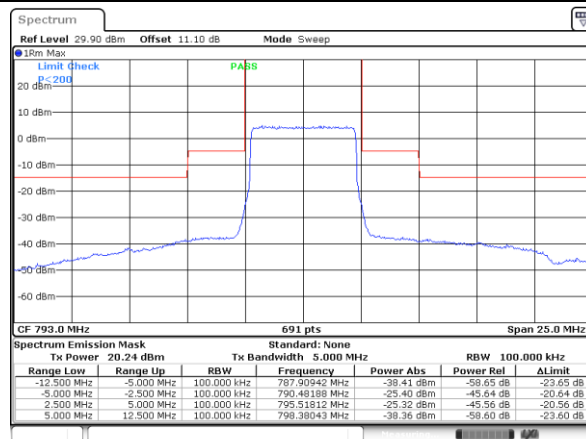


Date: 28.MAY.2024 03:51:06



Date: 28.MAY.2024 03:55:15

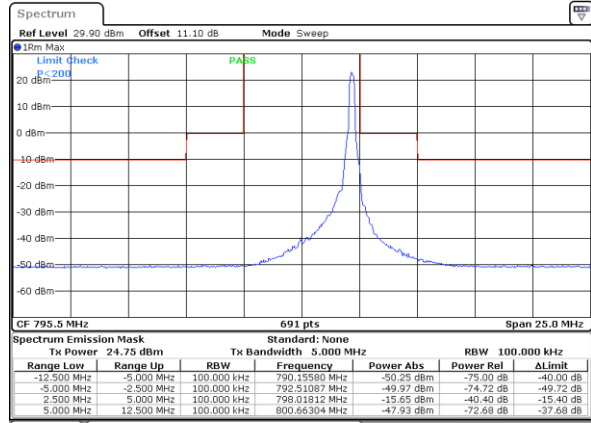
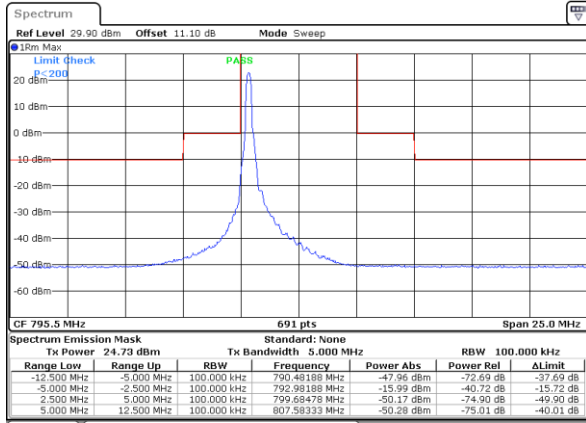
Middle Channel / Full RB



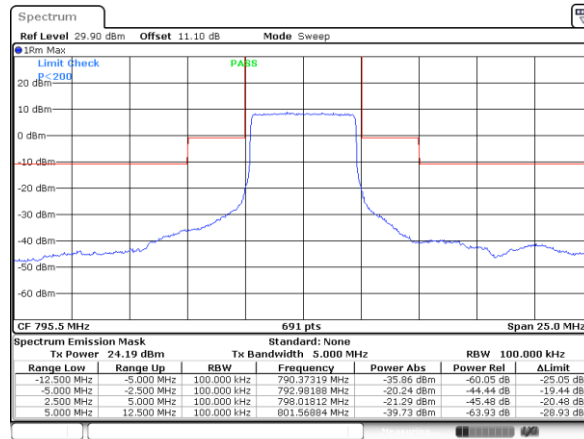
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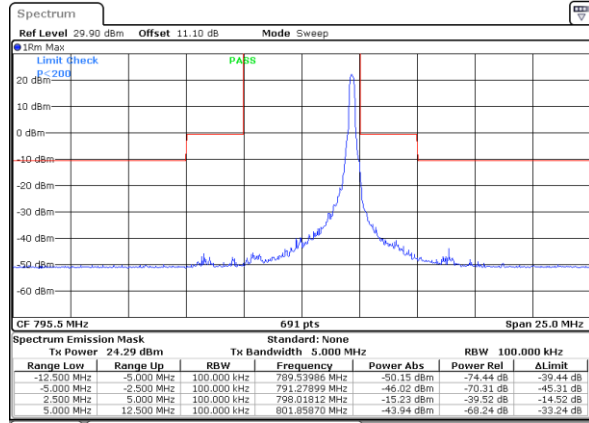
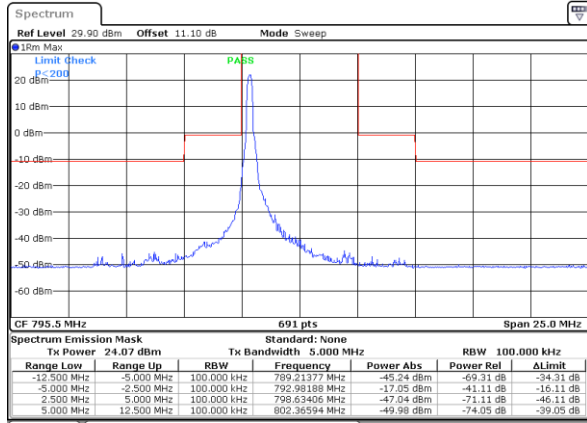
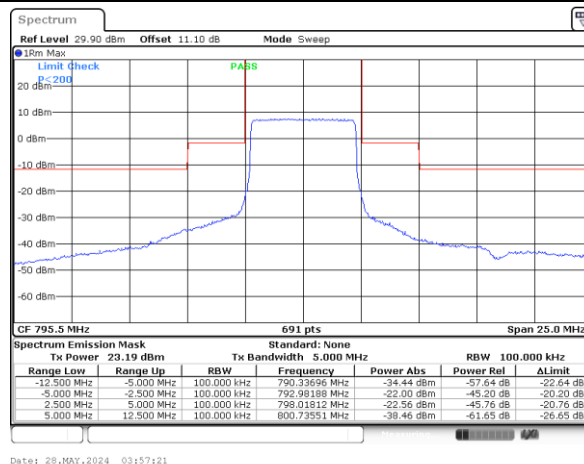
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



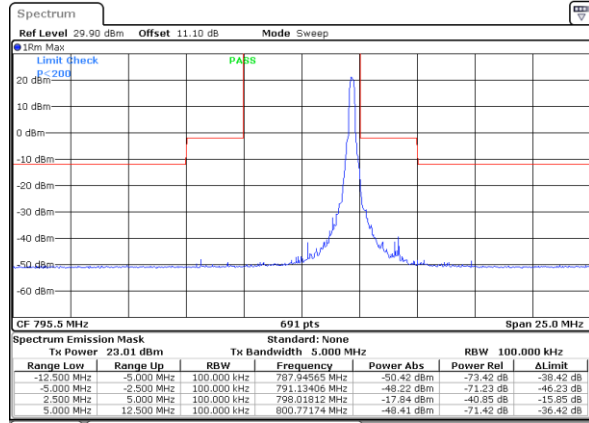
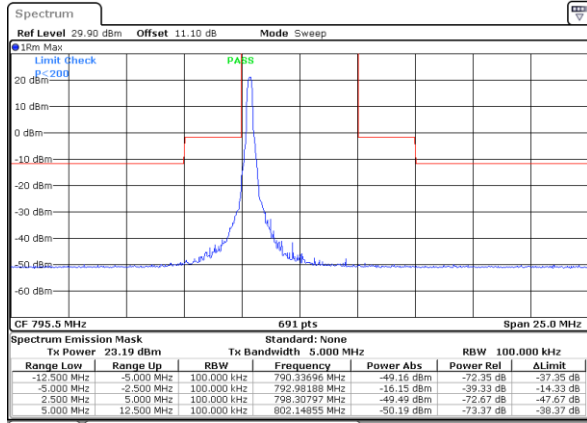
Highest Channel / Full RB



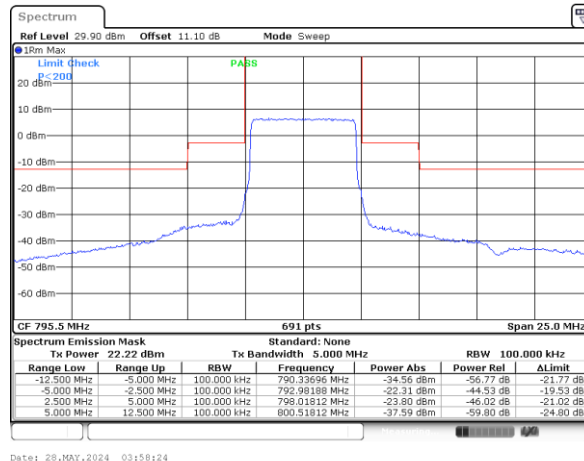
LTE Band 14 / 5MHz / 16QAM
Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

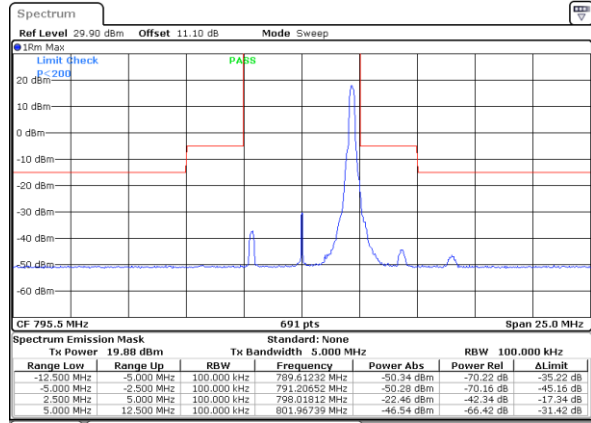
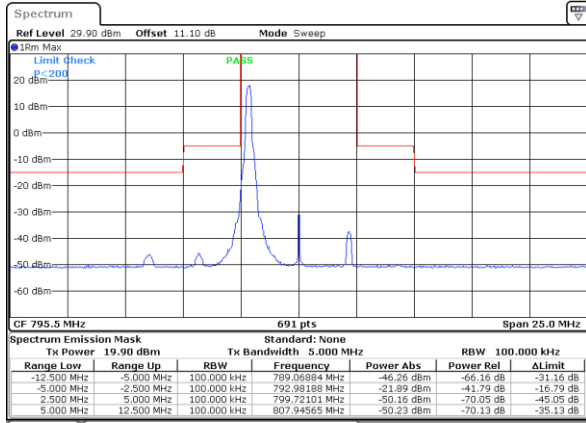


Highest Channel / Full RB

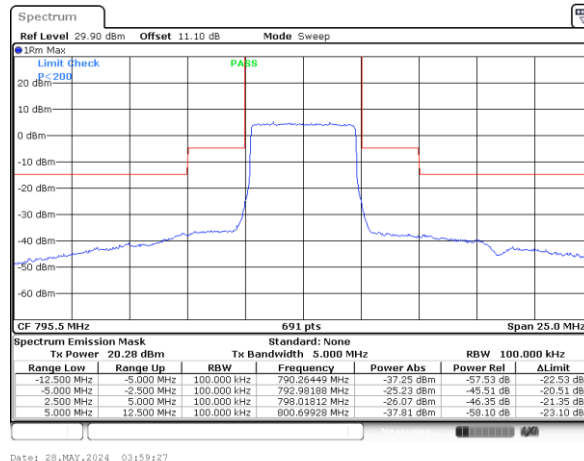


LTE Band 14 / 5MHz / 256QAM

Highest Channel / 1RB



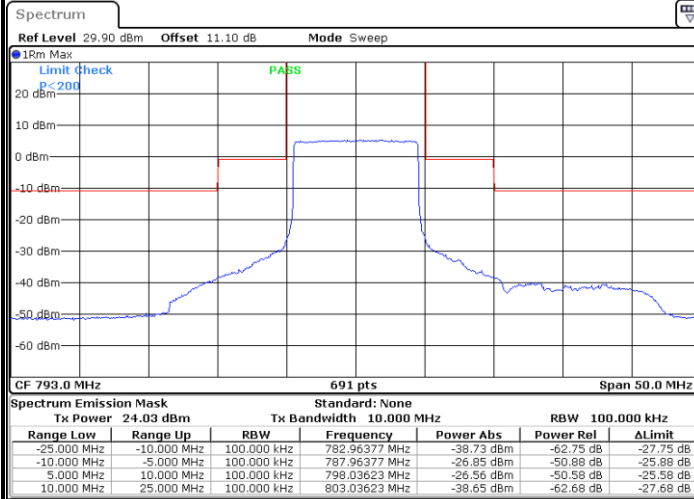
Highest Channel / Full RB





LTE Band 14 / 10MHz / QPSK

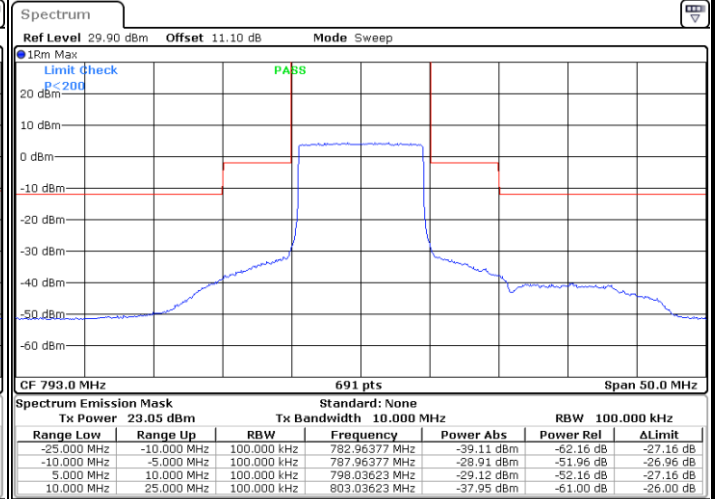
Middle Channel / Full RB



Date: 28.MAY.2024 07:16:30

LTE Band 14 / 10MHz / 16QAM

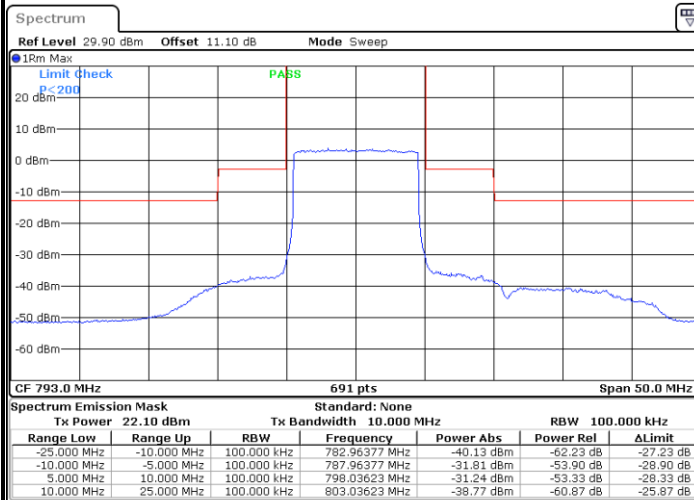
Middle Channel / Full RB



Date: 28.MAY.2024 07:17:33

LTE Band 14 / 10MHz / 64QAM

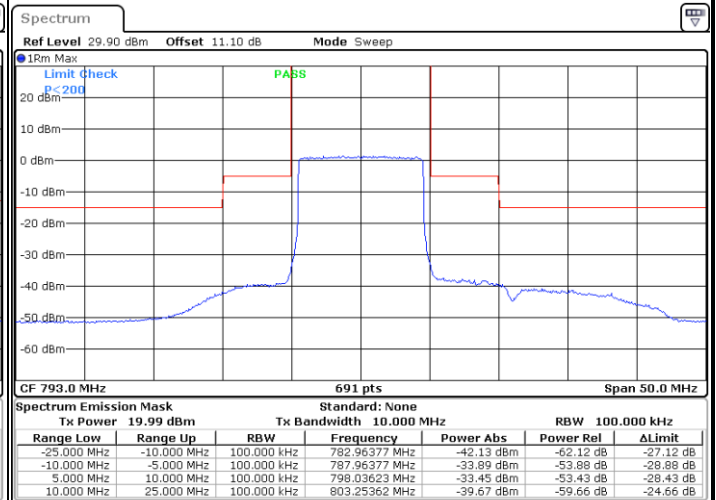
Middle Channel / Full RB



Date: 28.MAY.2024 07:18:35

LTE Band 14 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 28.MAY.2024 07:19:37

Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0049	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0049	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0115	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0149	
-30	Normal Voltage	0.0155	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0054	

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 25

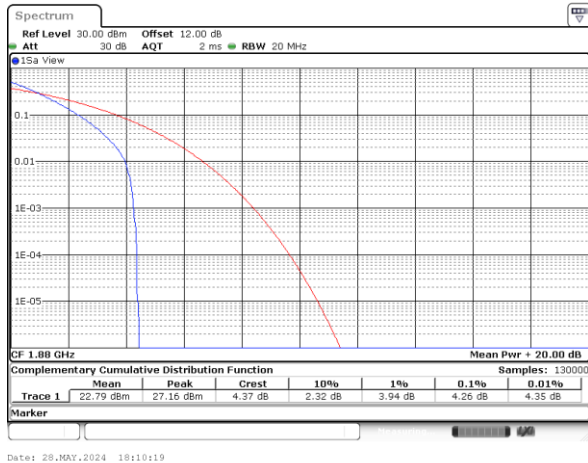
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.26	5.51	6.38	6.52	PASS



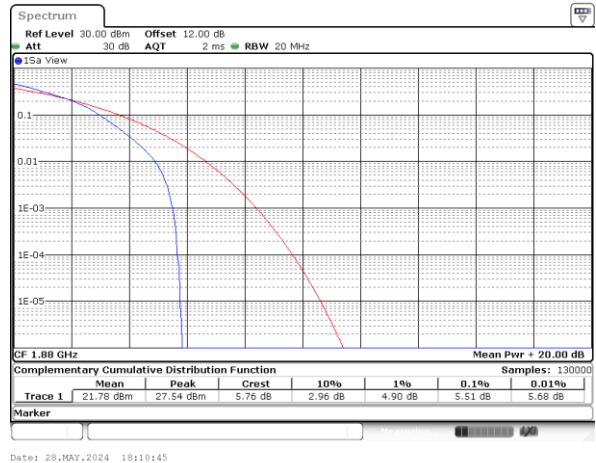
LTE Band 25 / 20MHz / QPSK

Middle Channel / Full RB



LTE Band 25 / 20MHz / 16QAM

Middle Channel / Full RB



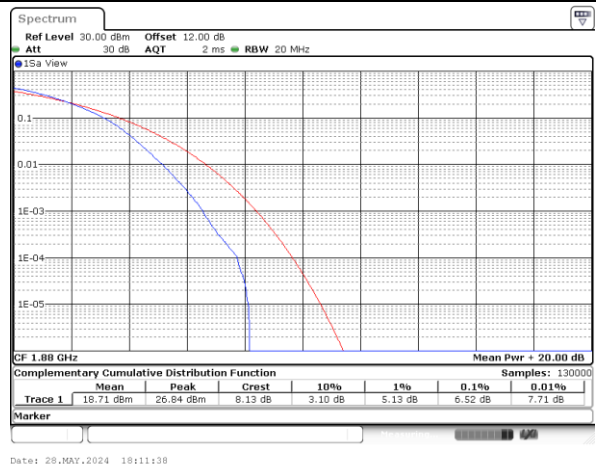
LTE Band 25 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 25 / 20MHz / 256QAM

Middle Channel / Full RB



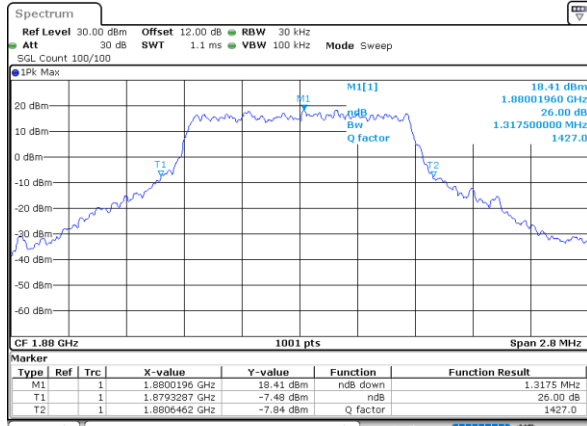
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.33	3.06	2.98	5.00	4.94	9.75	9.83	14.50	14.38	19.06	19.30
Mode	LTE Band 25 : 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	1.30	1.31	3.02	3.08	4.97	4.97	9.81	9.76	14.41	14.35	18.86	19.06

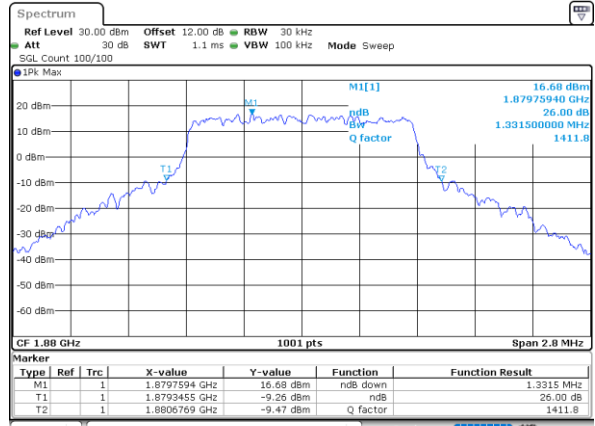


LTE Band 25

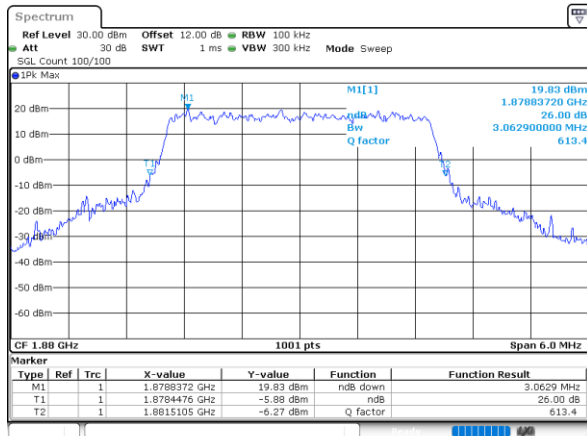
Middle Channel / 1.4MHz / QPSK



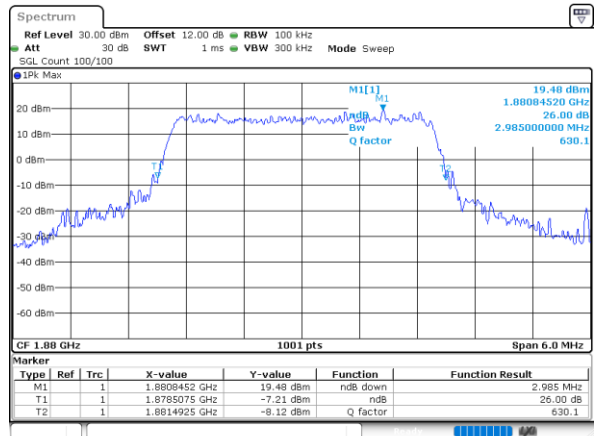
Middle Channel / 1.4MHz / 16QAM



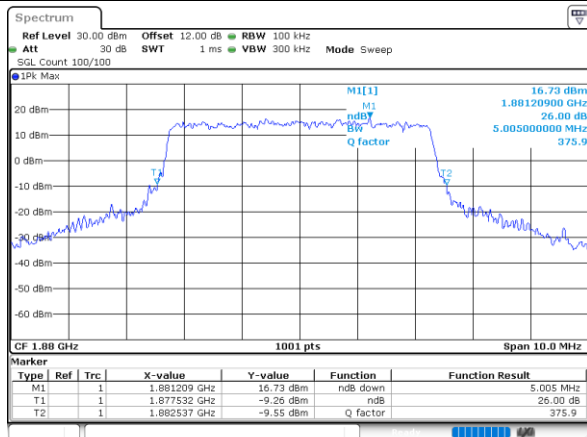
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

