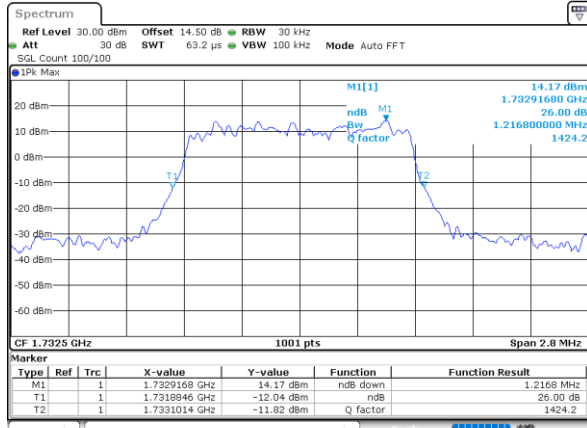




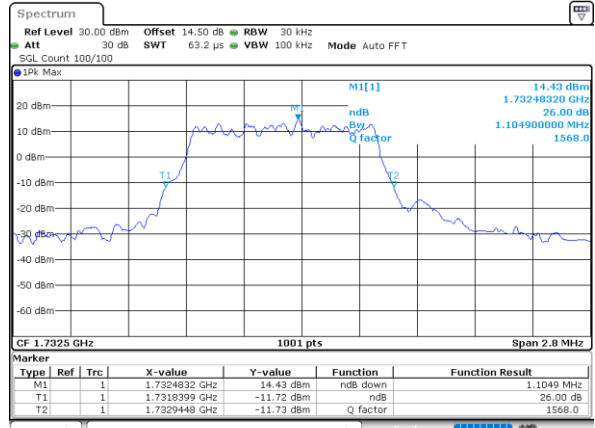
LTE Band 4

Middle Channel / 1.4MHz / QPSK



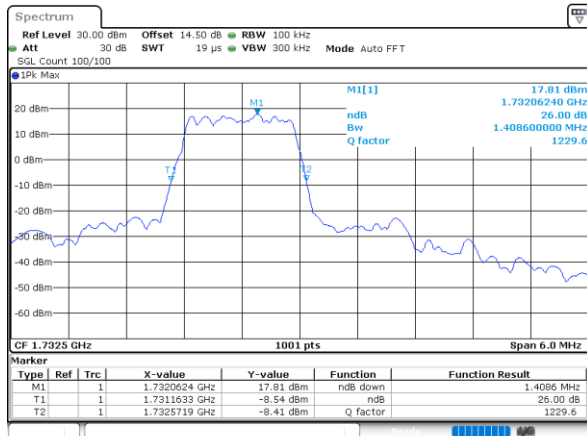
Date: 25.JUL.2024 15:41:33

Middle Channel / 1.4MHz / 16QAM



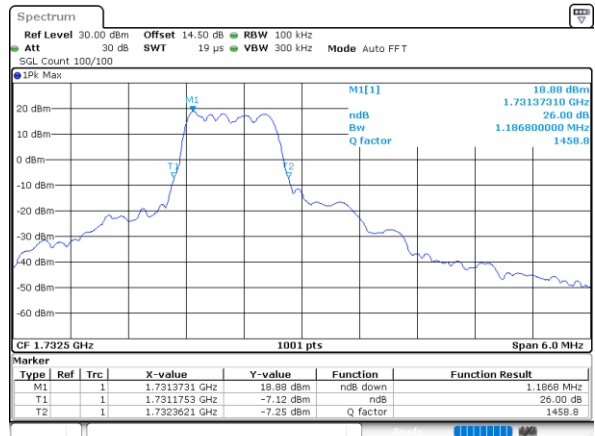
Date: 25.JUL.2024 15:43:53

Middle Channel / 3MHz / QPSK



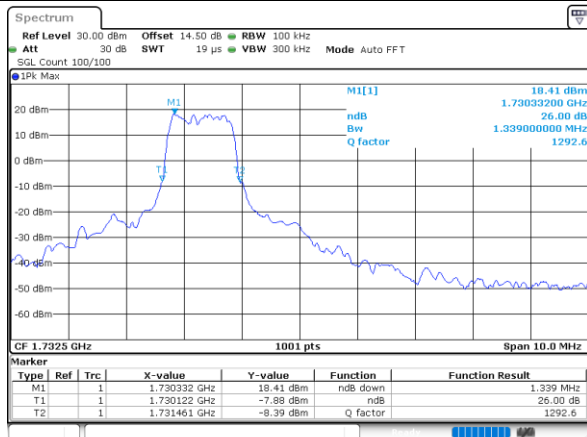
Date: 25.JUL.2024 16:08:53

Middle Channel / 3MHz / 16QAM



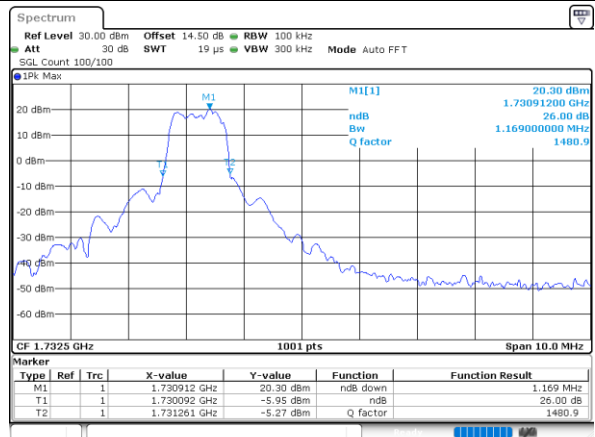
Date: 25.JUL.2024 16:10:14

Middle Channel / 5MHz / QPSK



Date: 25.JUL.2024 16:27:30

Middle Channel / 5MHz / 16QAM

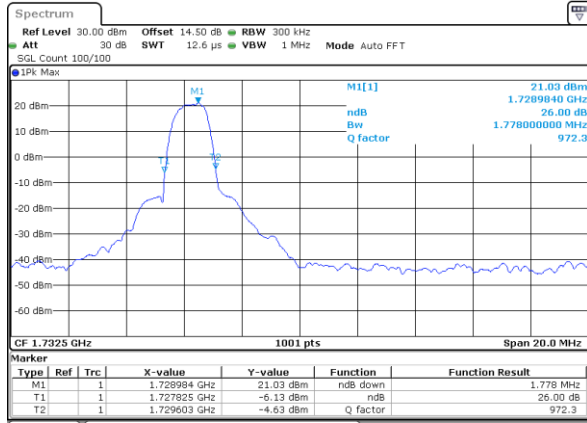


Date: 25.JUL.2024 16:29:22



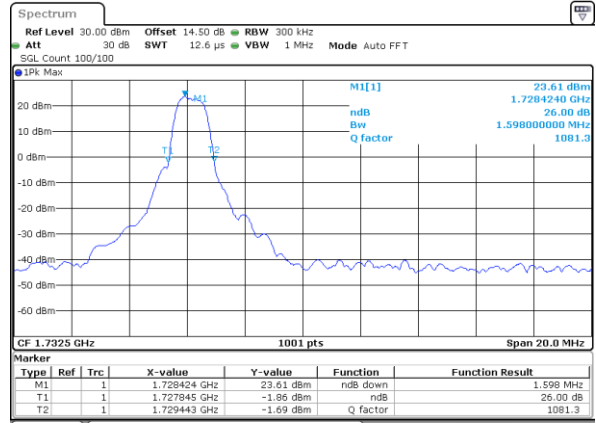
LTE Band 4

Middle Channel / 10MHz / QPSK



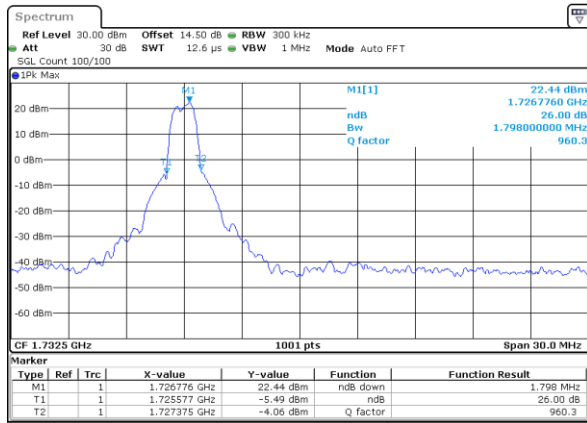
Date: 25.JUL.2024 16:37:40

Middle Channel / 10MHz / 16QAM



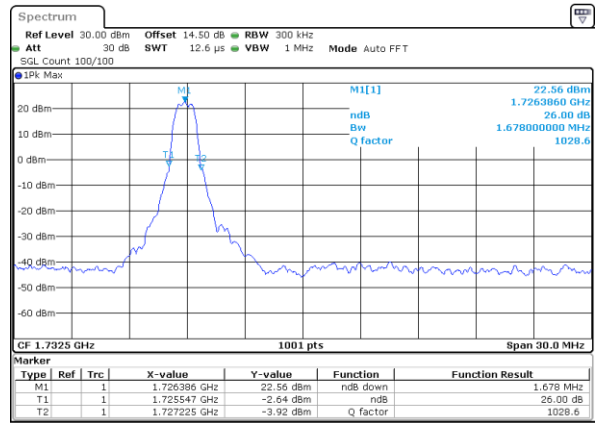
Date: 25.JUL.2024 16:43:26

Middle Channel / 15MHz / QPSK



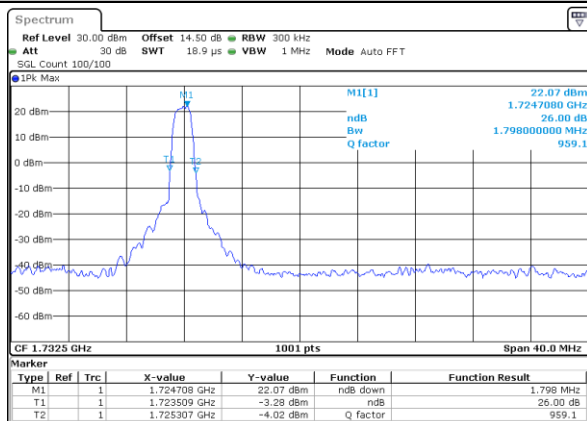
Date: 25.JUL.2024 16:56:24

Middle Channel / 15MHz / 16QAM



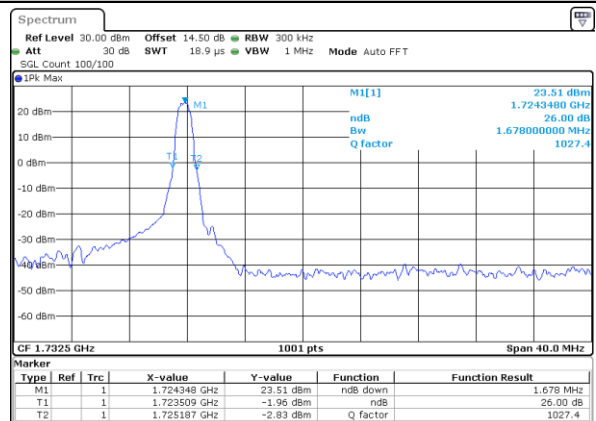
Date: 25.JUL.2024 16:52:03

Middle Channel / 20MHz / QPSK



Date: 25.JUL.2024 15:13:12

Middle Channel / 20MHz / 16QAM



Date: 25.JUL.2024 15:27:40



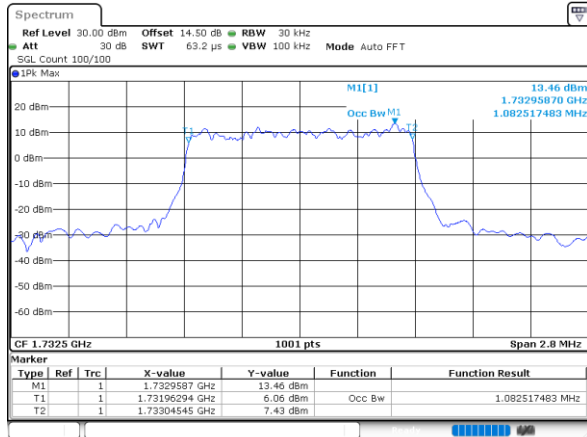
Occupied Bandwidth

Mode	LTE Band 4 : 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	1.083	0.920	1.169	0.983	1.169	0.969	1.419	1.279	1.439	1.289	1.479	1.319



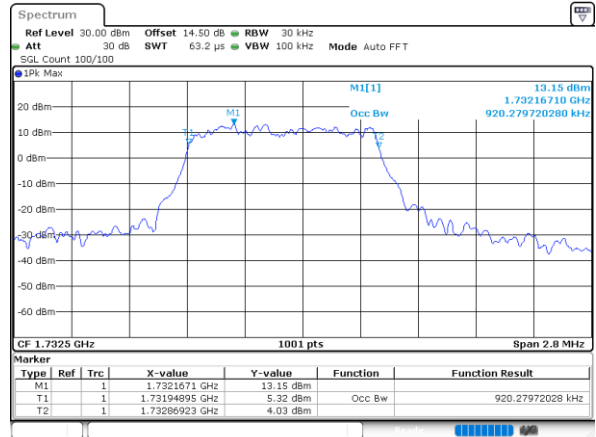
LTE Band 4

Middle Channel / 1.4MHz / QPSK



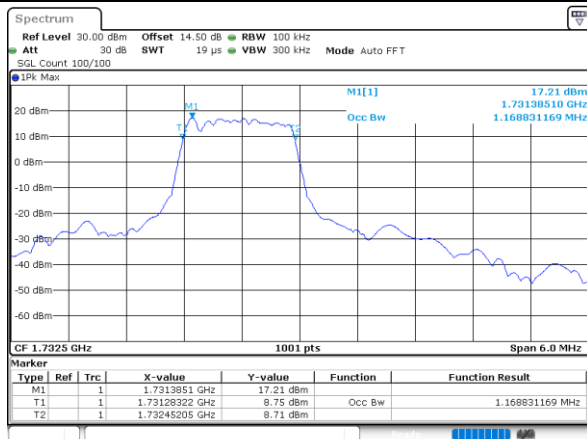
Date: 25.JUL.2024 15:41:11

Middle Channel / 1.4MHz / 16QAM



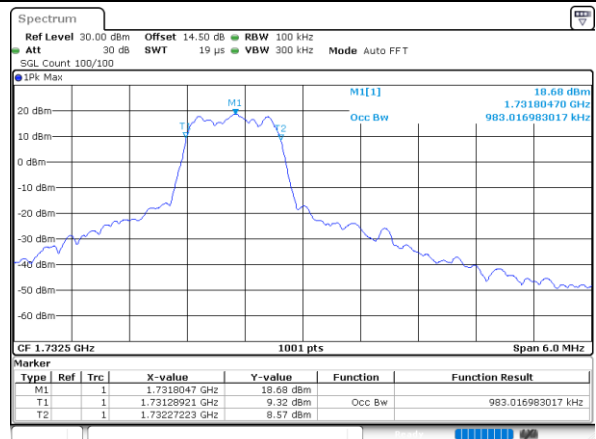
Date: 25.JUL.2024 15:43:43

Middle Channel / 3MHz / QPSK



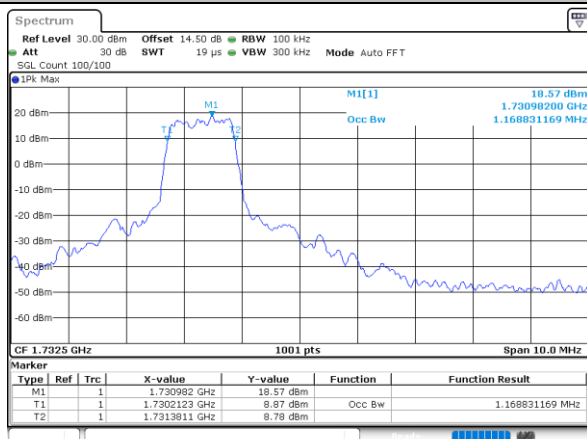
Date: 25.JUL.2024 16:07:52

Middle Channel / 3MHz / 16QAM



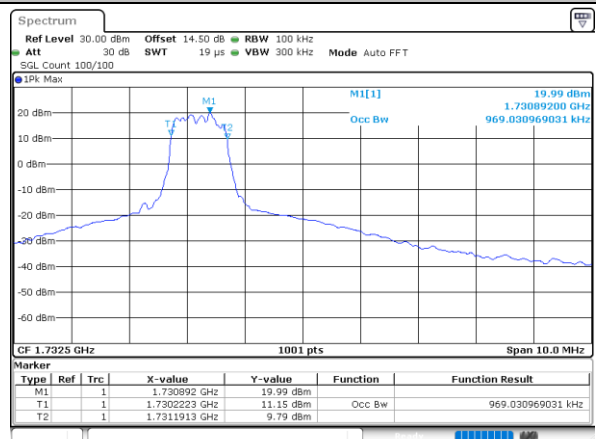
Date: 25.JUL.2024 16:10:05

Middle Channel / 5MHz / QPSK



Date: 25.JUL.2024 16:27:18

Middle Channel / 5MHz / 16QAM

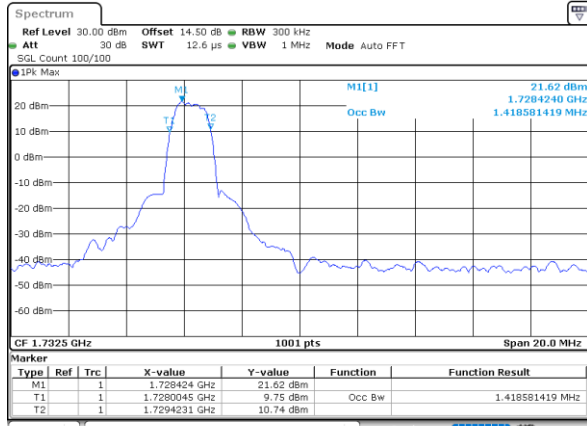


Date: 25.JUL.2024 16:29:11



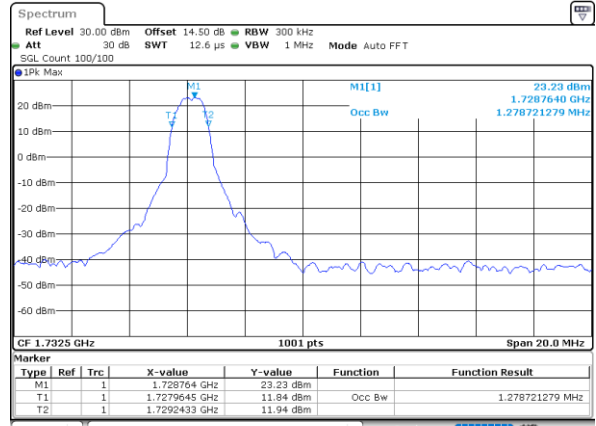
LTE Band 4

Middle Channel / 10MHz / QPSK



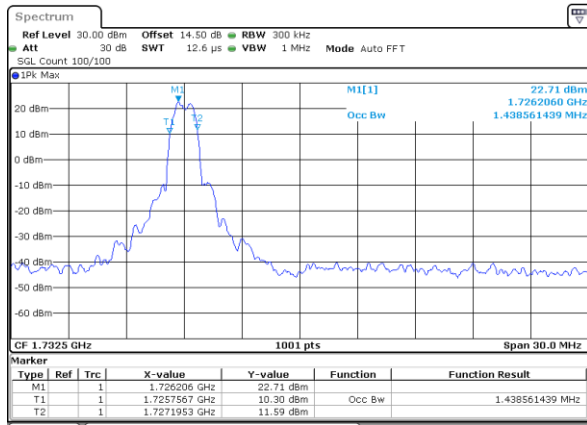
Date: 25.JUL.2024 16:37:19

Middle Channel / 10MHz / 16QAM



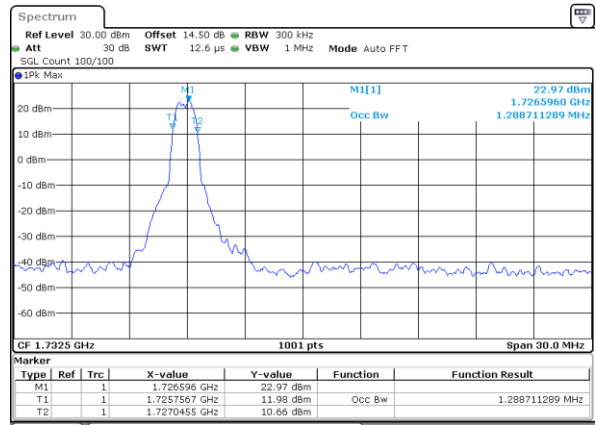
Date: 25.JUL.2024 16:42:53

Middle Channel / 15MHz / QPSK



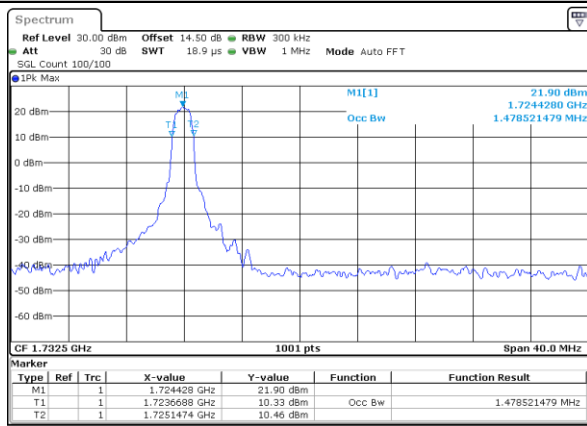
Date: 25.JUL.2024 16:56:15

Middle Channel / 15MHz / 16QAM



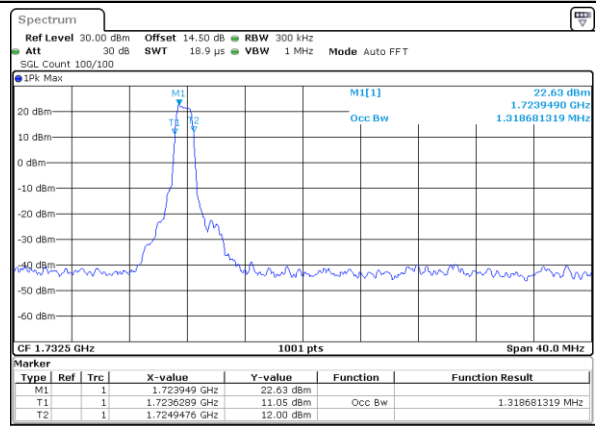
Date: 25.JUL.2024 16:51:54

Middle Channel / 20MHz / QPSK



Date: 25.JUL.2024 15:12:36

Middle Channel / 20MHz / 16QAM



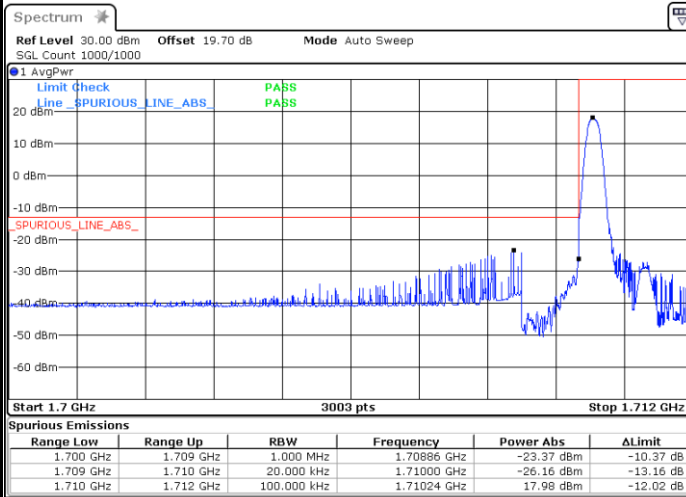
Date: 25.JUL.2024 15:27:27



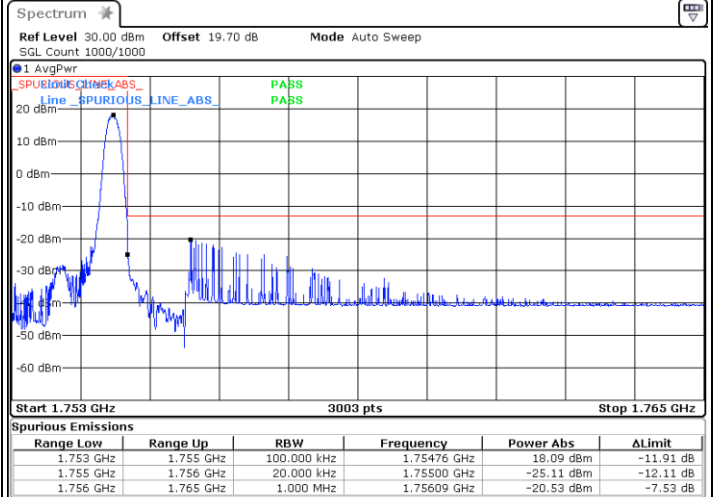
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

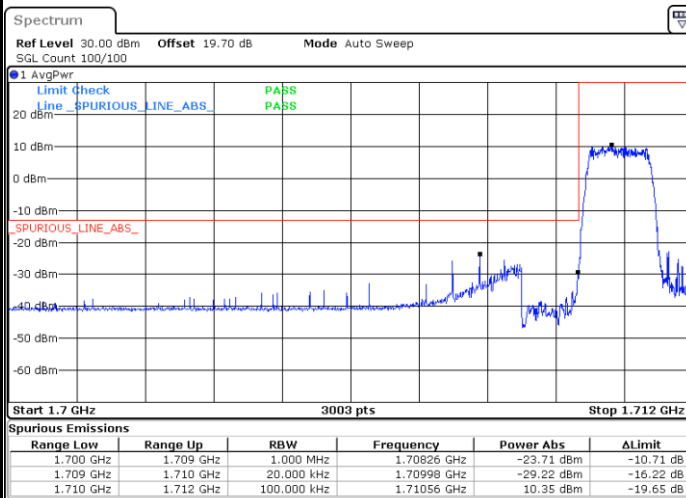
Lowest Band Edge / 1RB



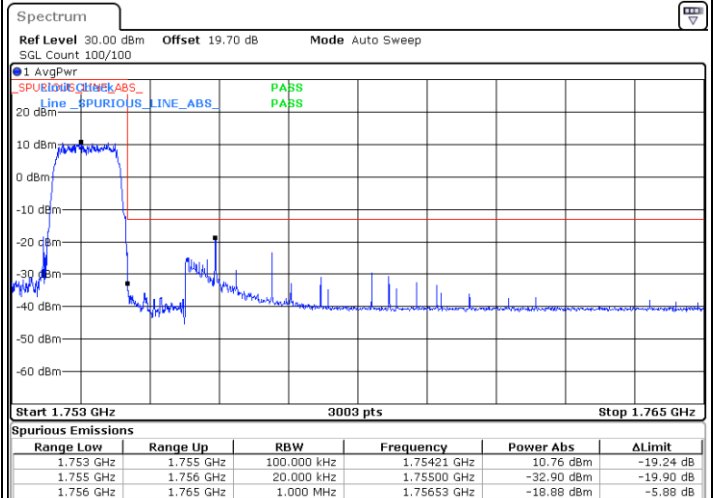
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



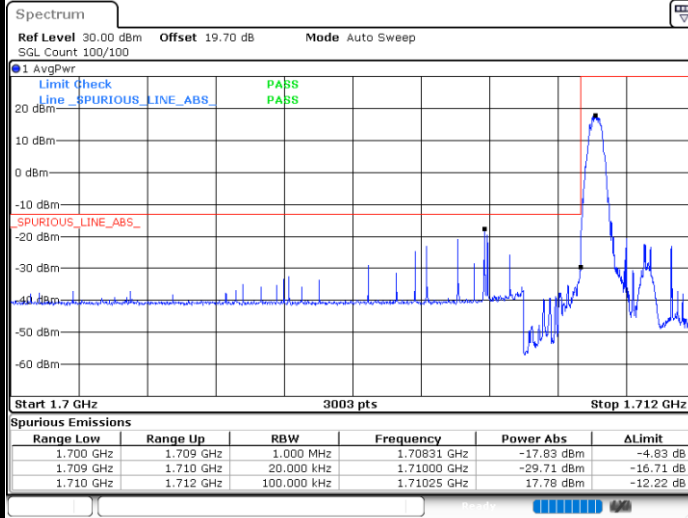
Highest Band Edge / Full RB



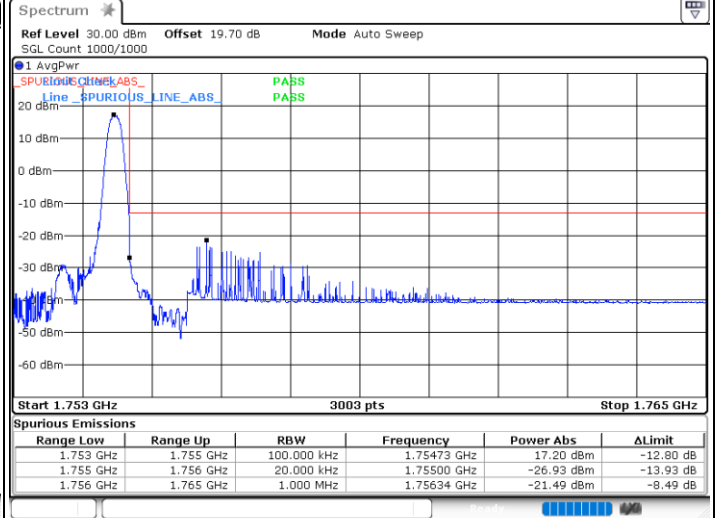


LTE Band 4 / 1.4MHz / 16QAM

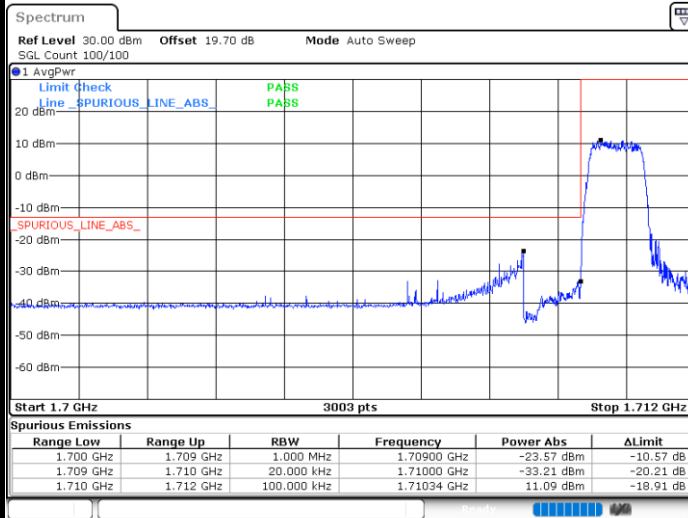
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



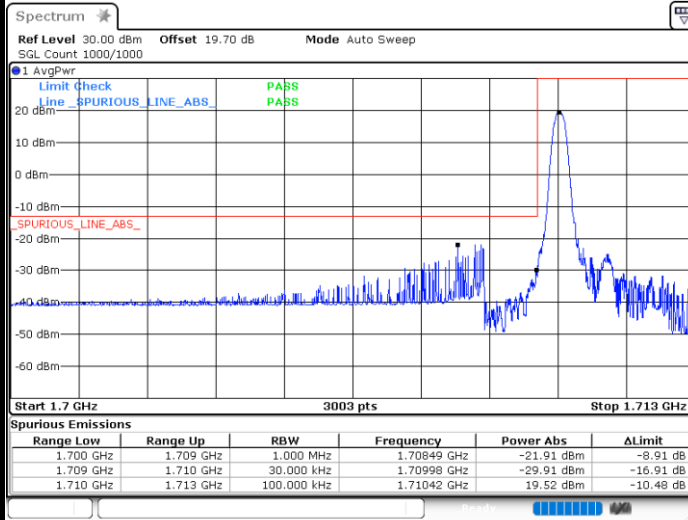
Highest Band Edge / Full RB



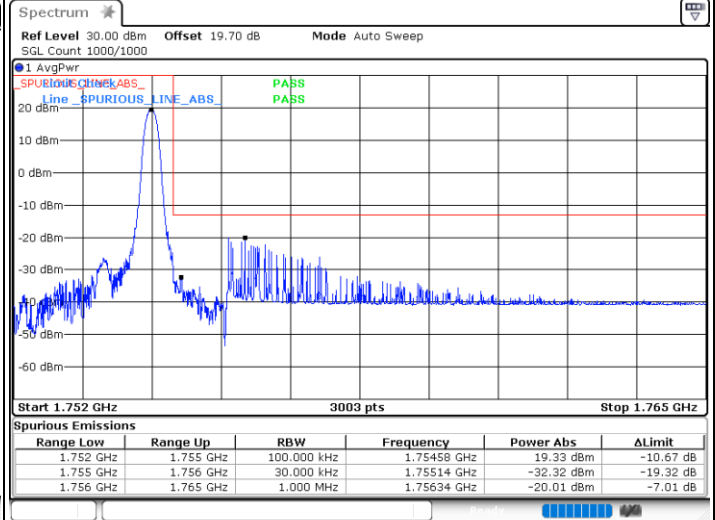


LTE Band 4 / 3MHz / QPSK

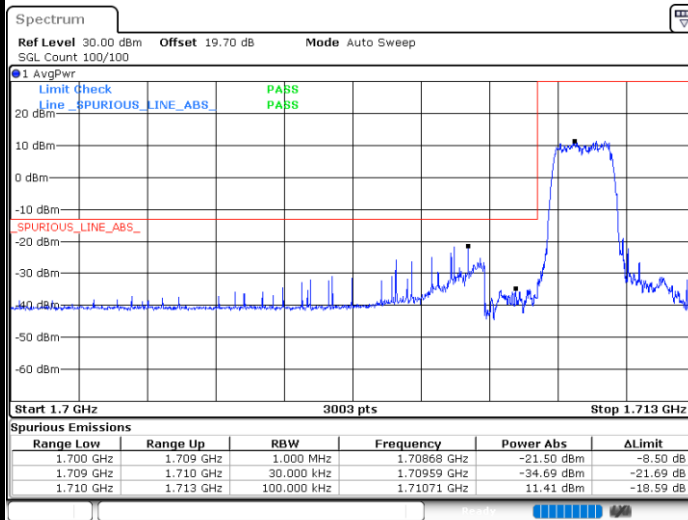
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



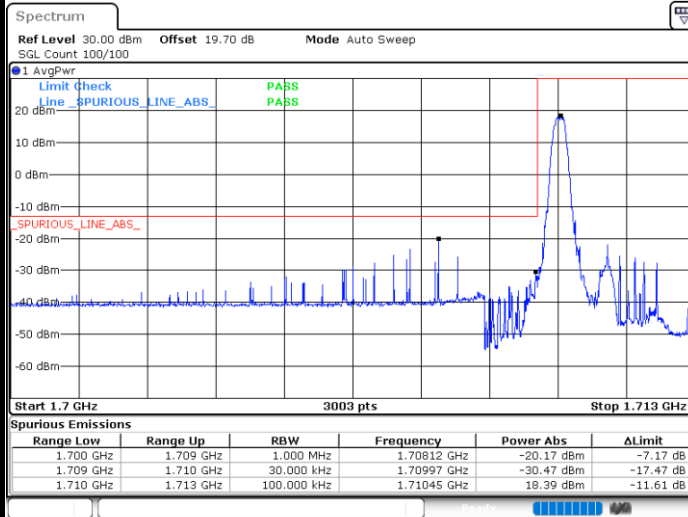
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / 16QAM

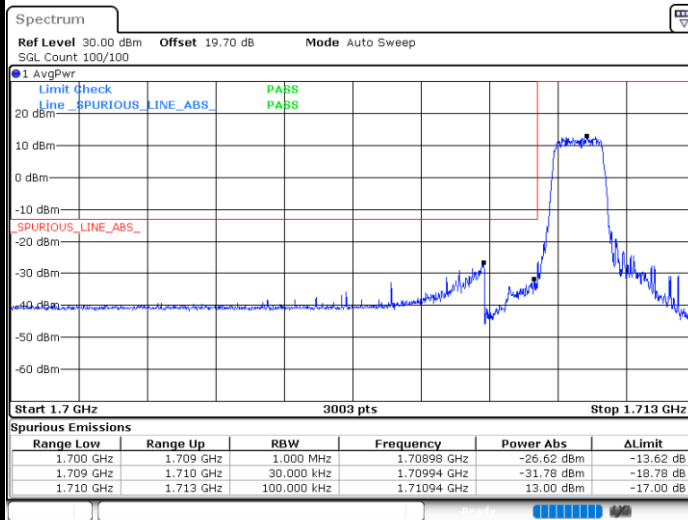
Lowest Band Edge / 1 RB



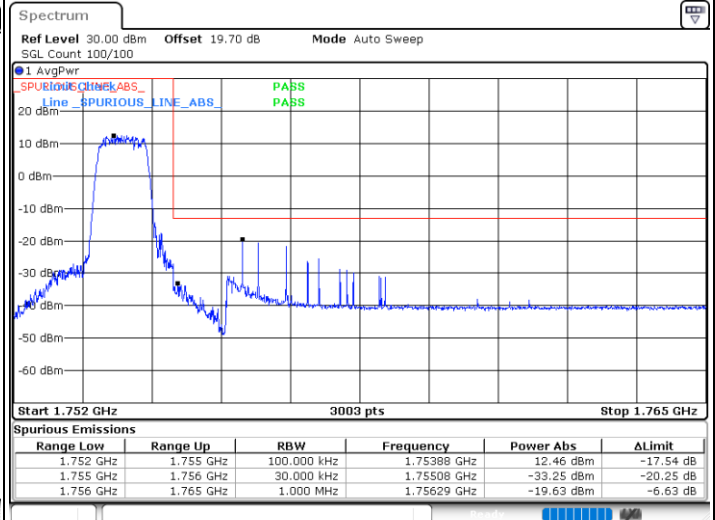
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



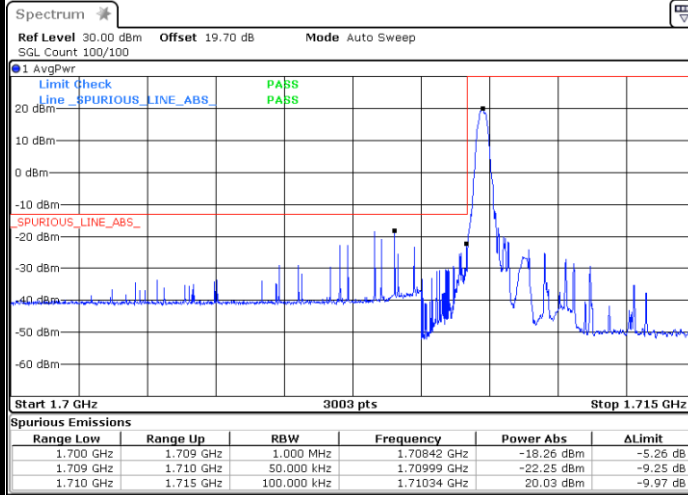
Highest Band Edge / Full RB



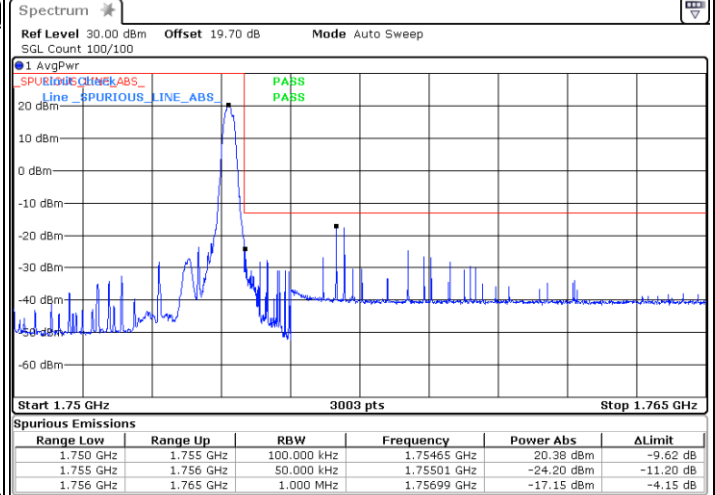


LTE Band 4 / 5MHz / QPSK

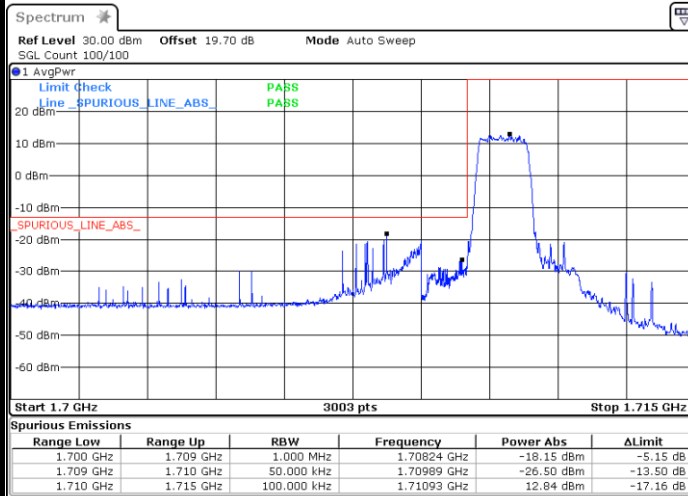
Lowest Band Edge / 1RB



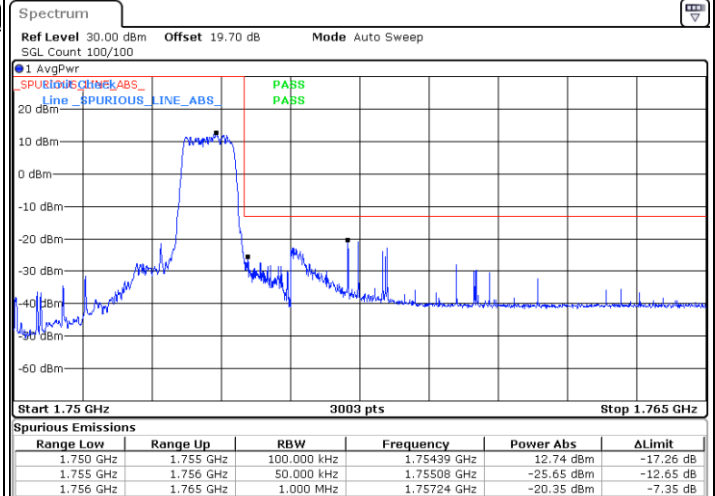
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



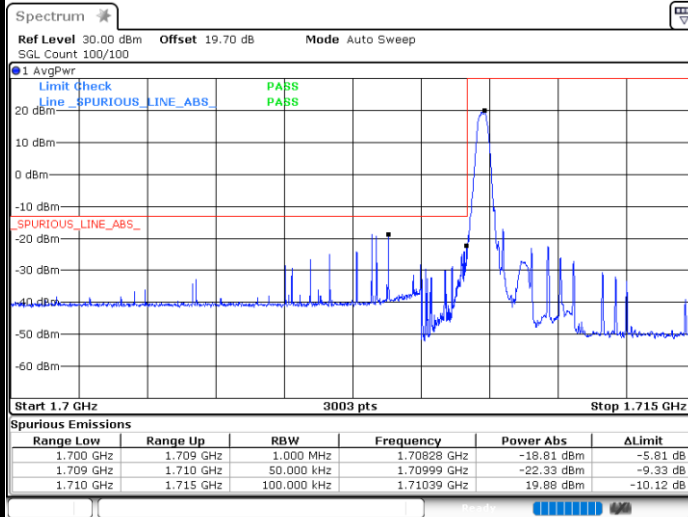
Highest Band Edge / Full RB





LTE Band 4 / 5MHz / 16QAM

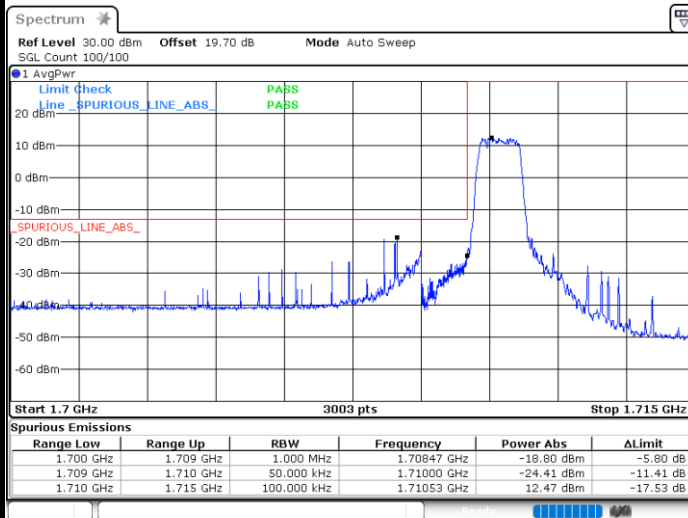
Lowest Band Edge / 1 RB



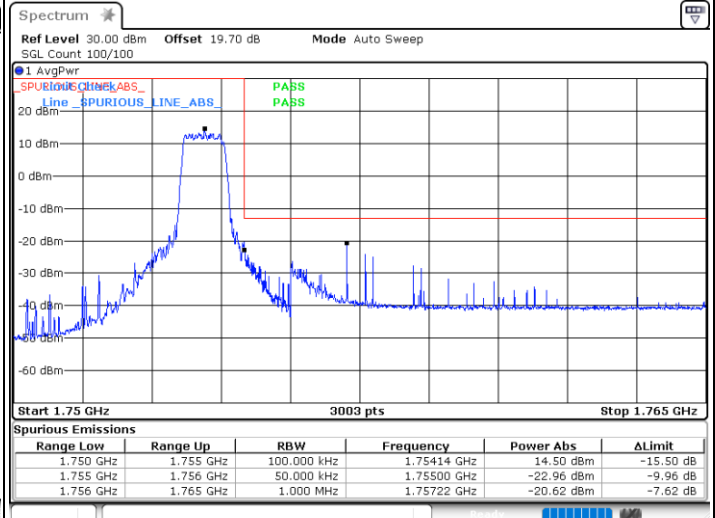
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



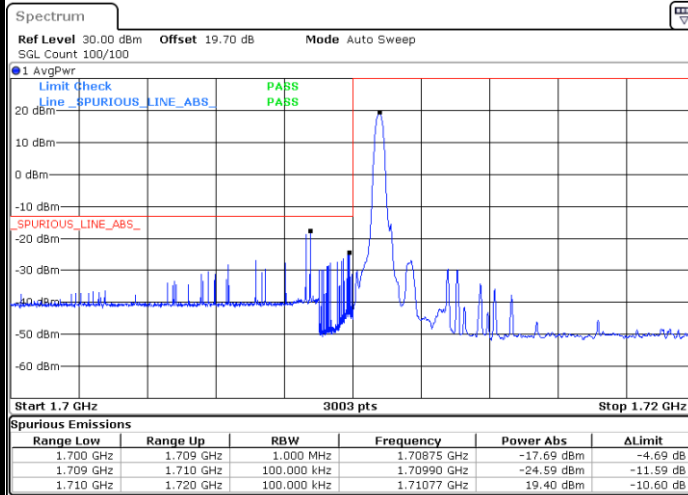
Highest Band Edge / Full RB



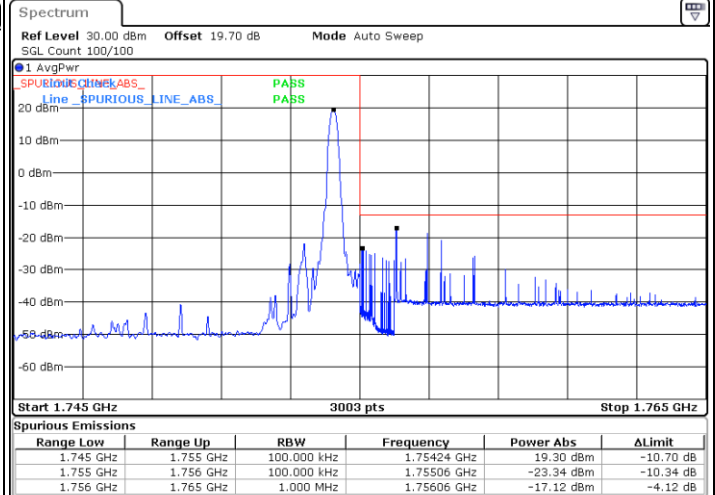


LTE Band 4 / 10MHz / QPSK

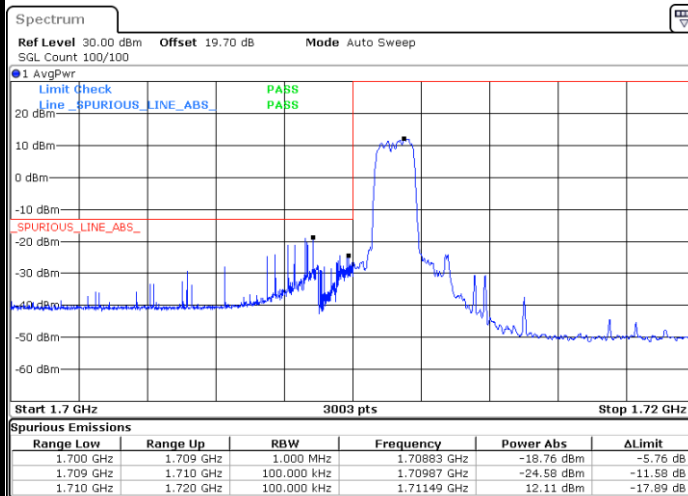
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



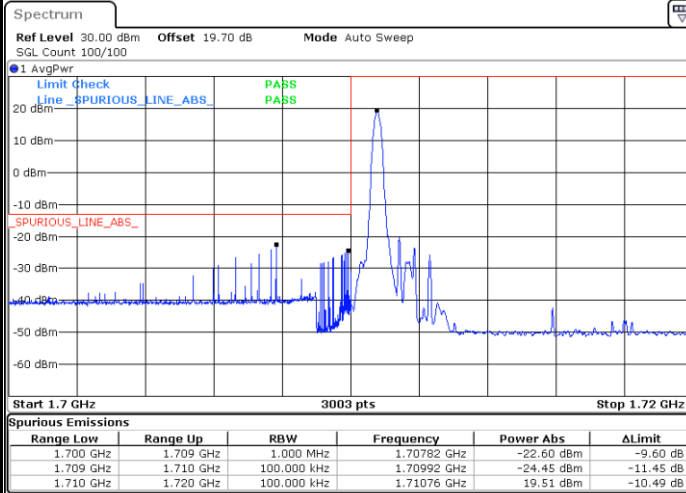
Highest Band Edge / Full RB



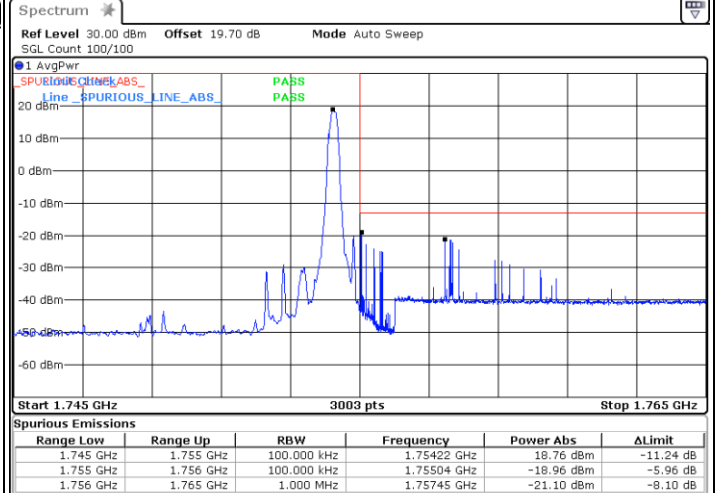


LTE Band 4 / 10MHz / 16QAM

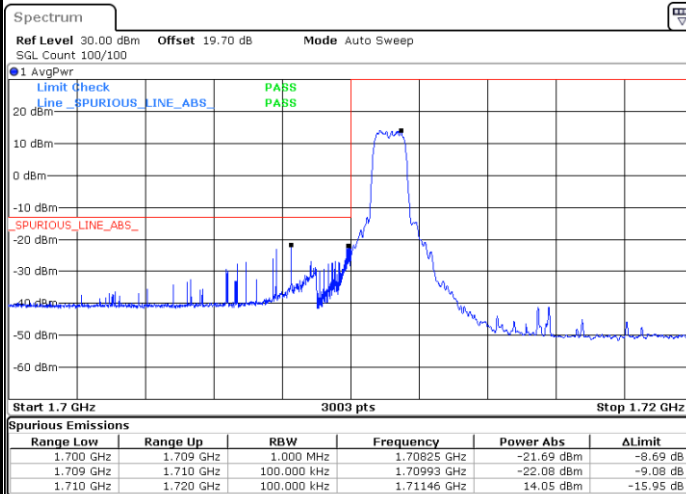
Lowest Band Edge / 1 RB



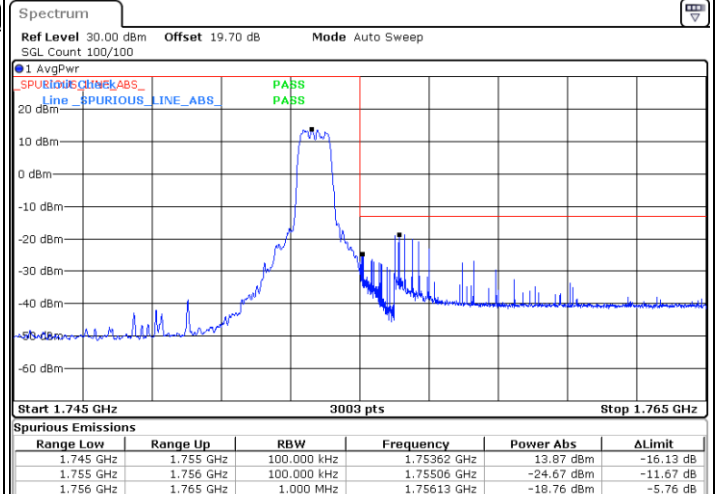
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



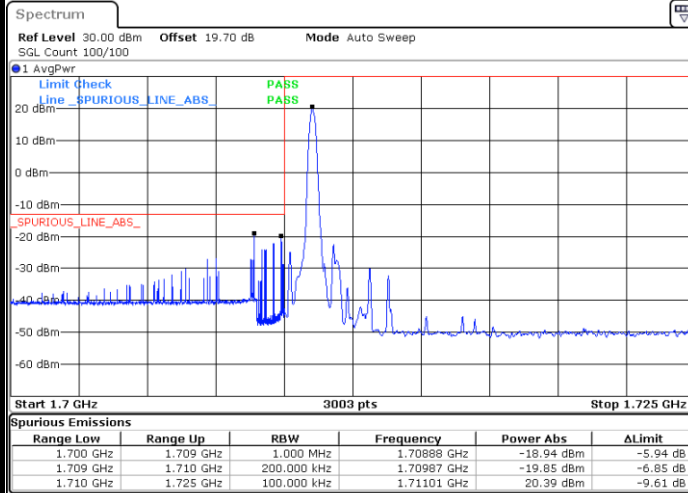
Highest Band Edge / Full RB



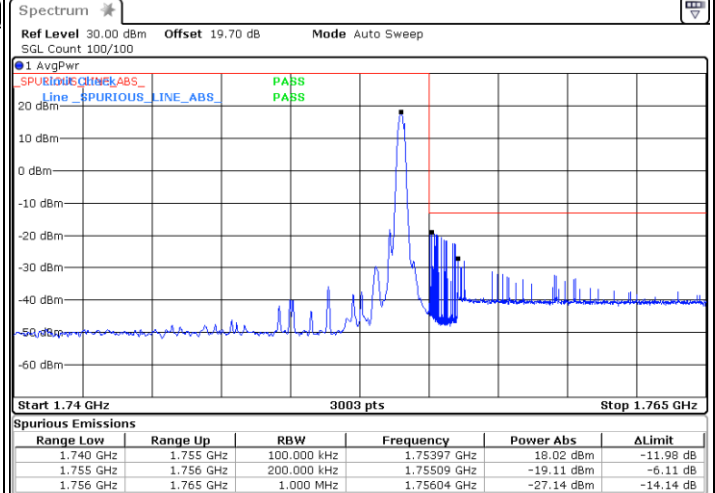


LTE Band 4 / 15MHz / QPSK

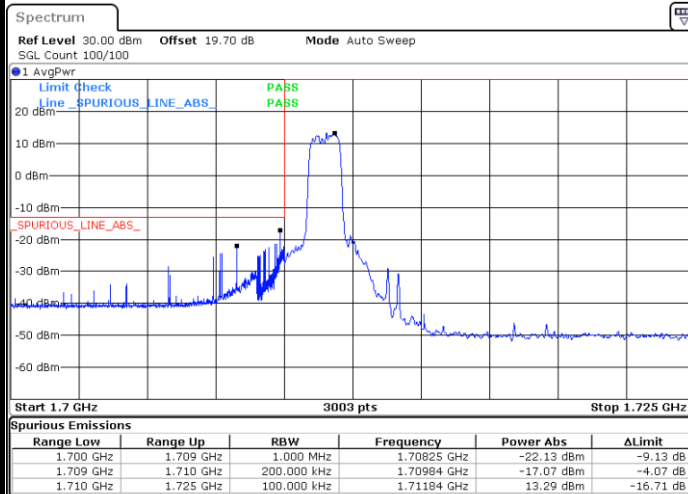
Lowest Band Edge / 1RB



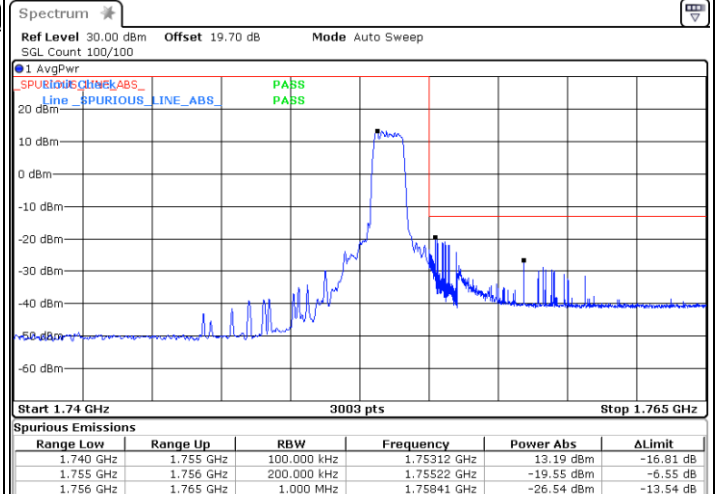
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



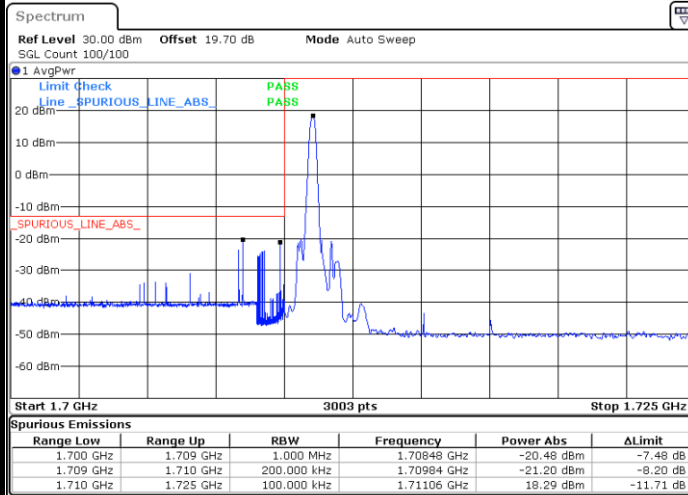
Highest Band Edge / Full RB



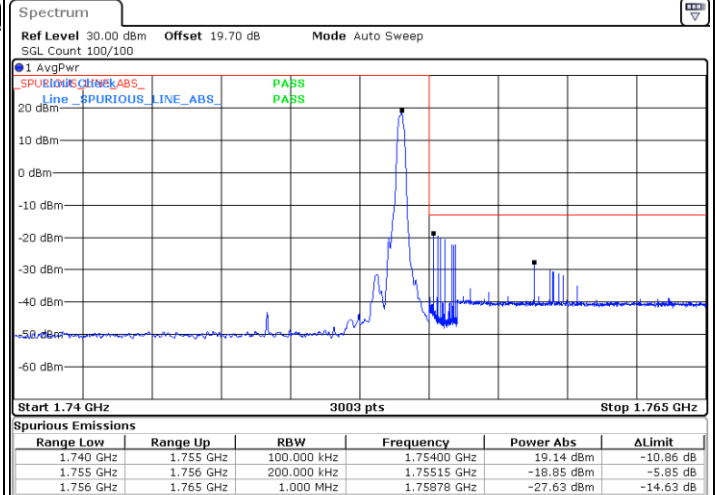


LTE Band 4 / 15MHz / 16QAM

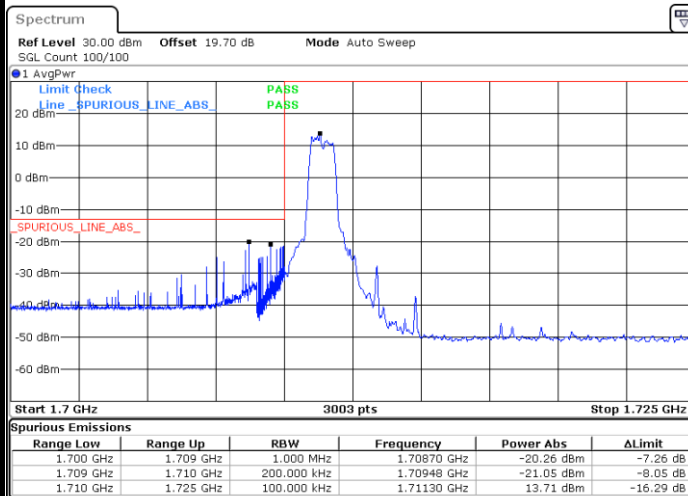
Lowest Band Edge / 1 RB



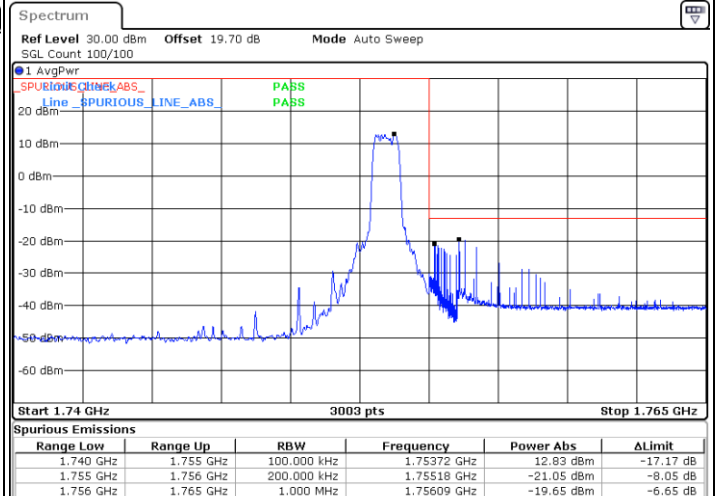
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



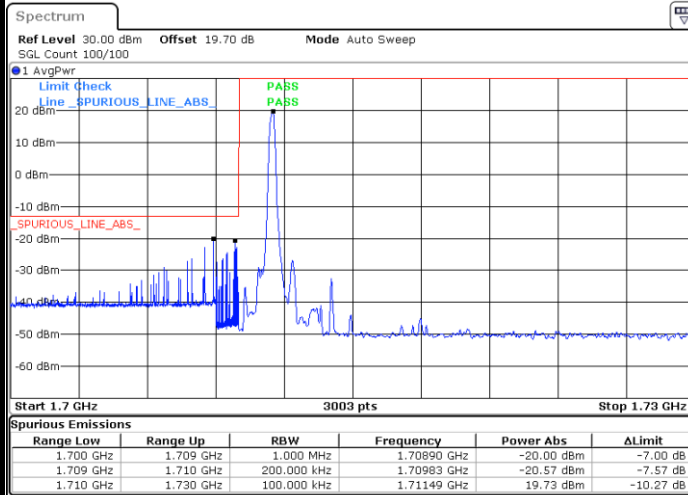
Highest Band Edge / Full RB



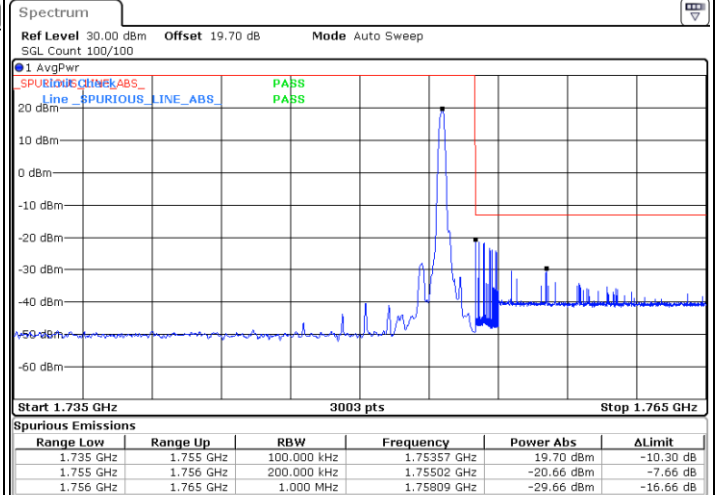


LTE Band 4 / 20MHz / QPSK

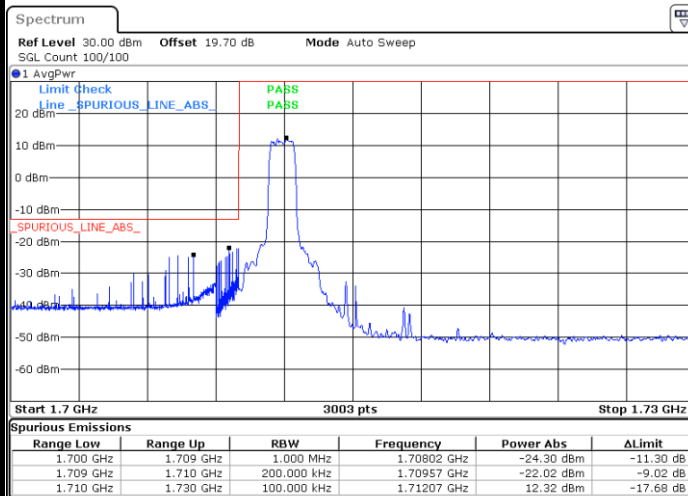
Lowest Band Edge / 1RB



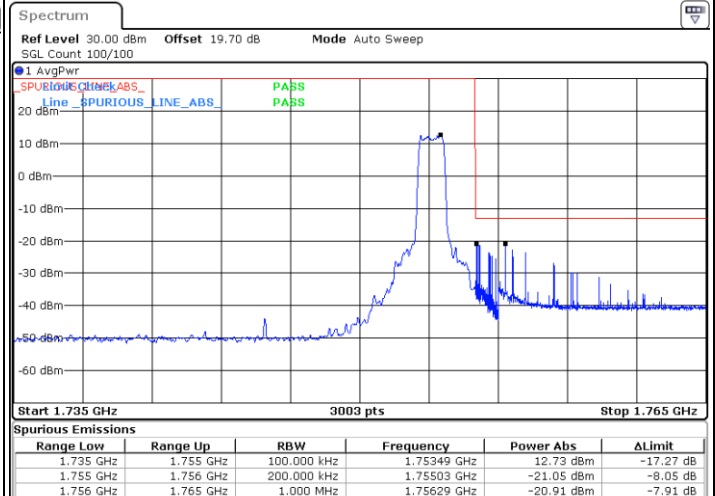
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



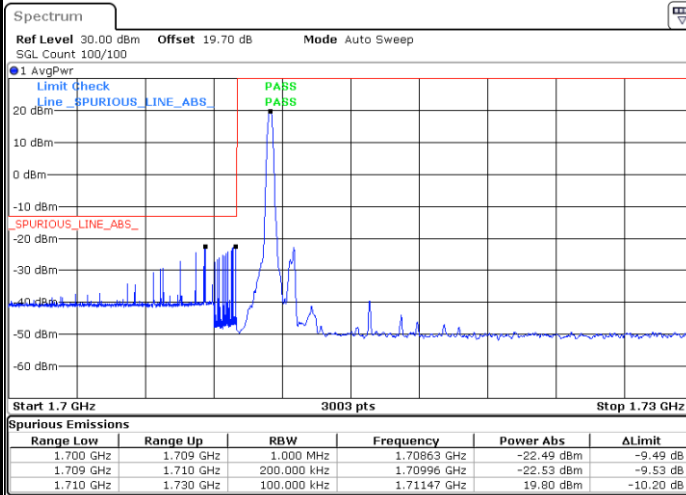
Highest Band Edge / Full RB



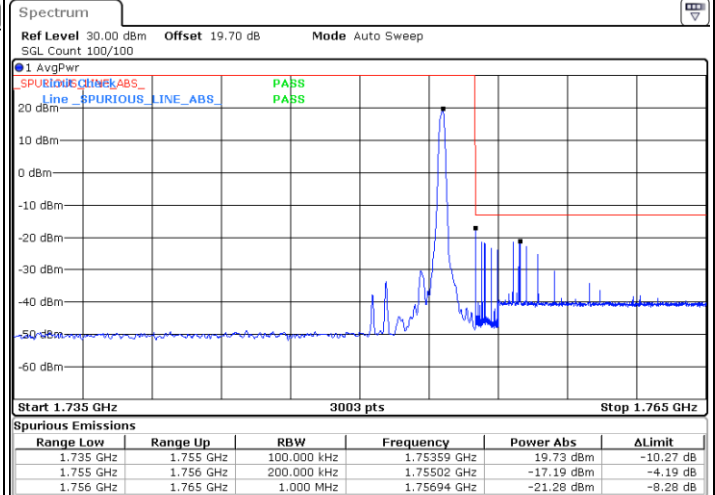


LTE Band 4 / 20MHz / 16QAM

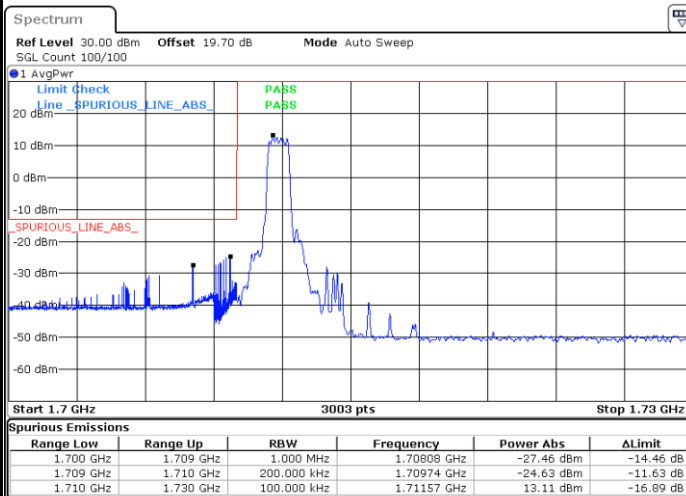
Lowest Band Edge / 1 RB



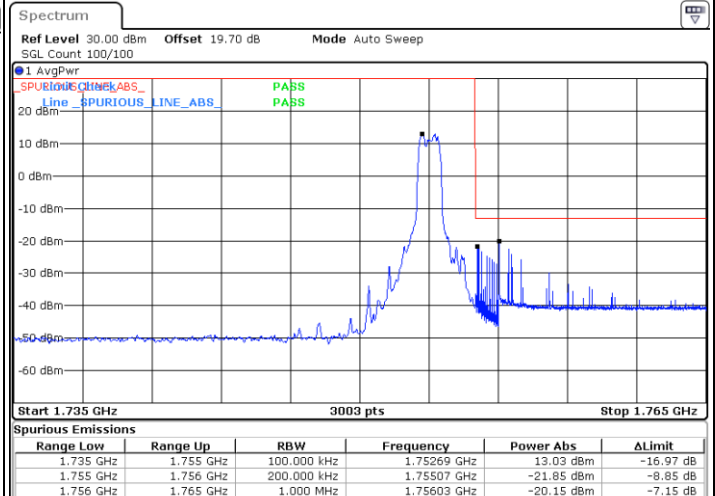
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

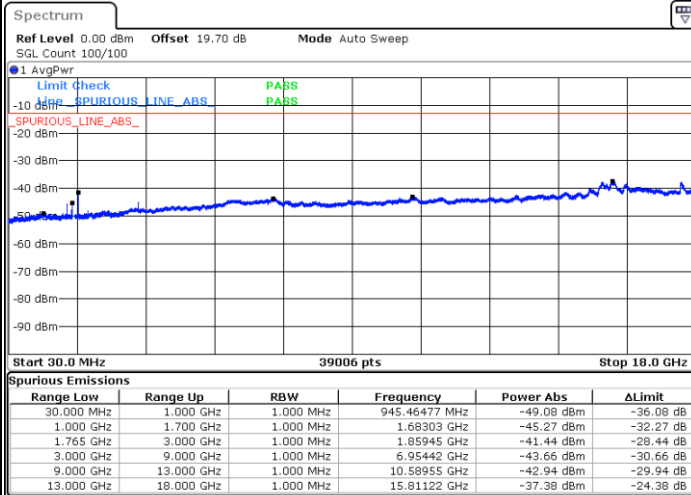




Conducted Spurious Emission

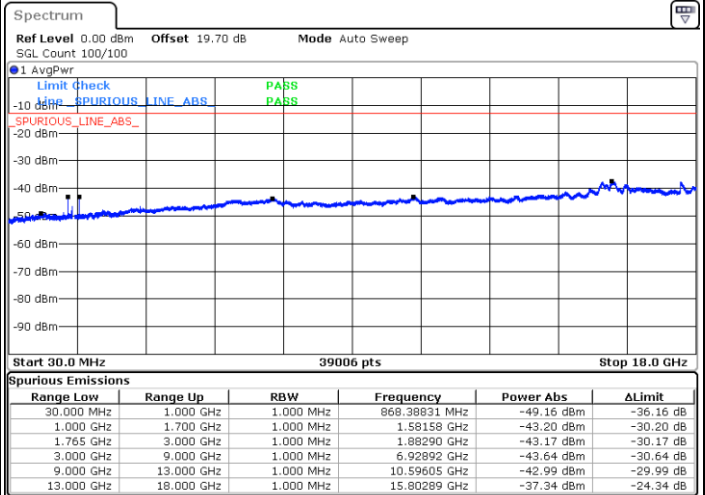
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



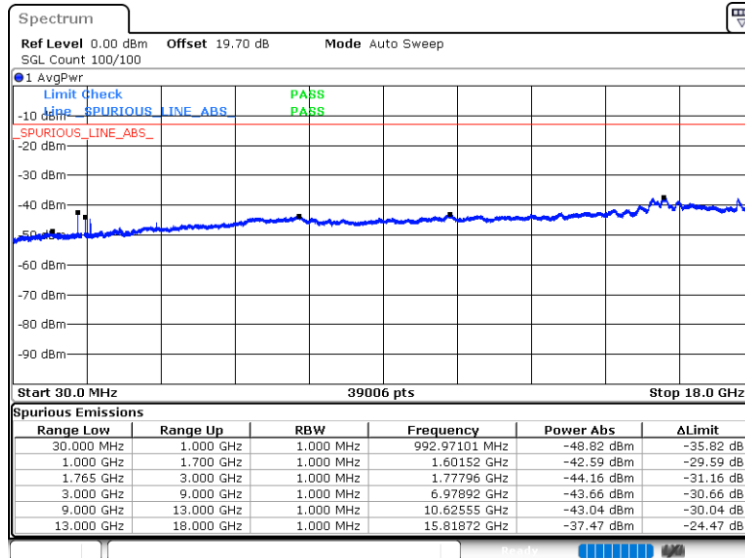
Date: 28.JUL.2024 14:11:51

Middle Channel / QPSK



Date: 28.JUL.2024 14:14:39

Highest Channel / QPSK

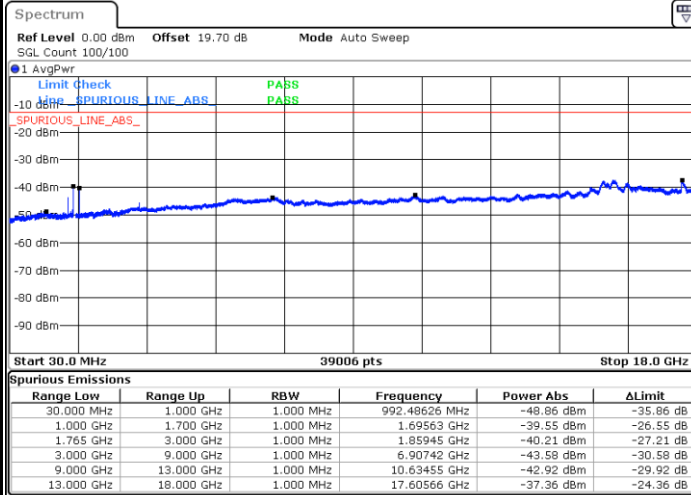


Date: 28.JUL.2024 14:16:24



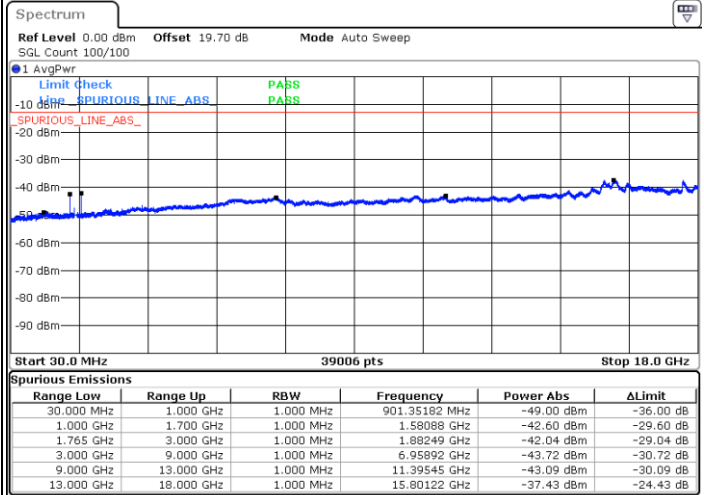
LTE Band 4 / 3MHz

Lowest Channel / QPSK



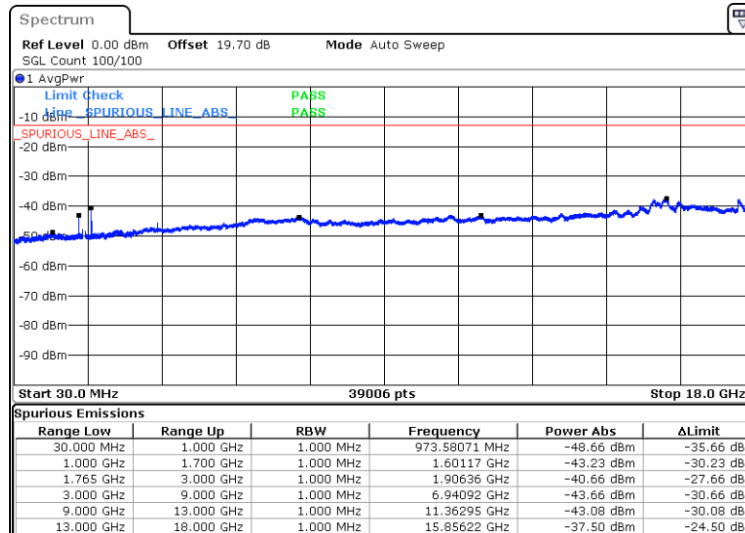
Date: 28.JUL.2024 18:18:04

Middle Channel / QPSK



Date: 28.JUL.2024 18:14:55

Highest Channel / QPSK



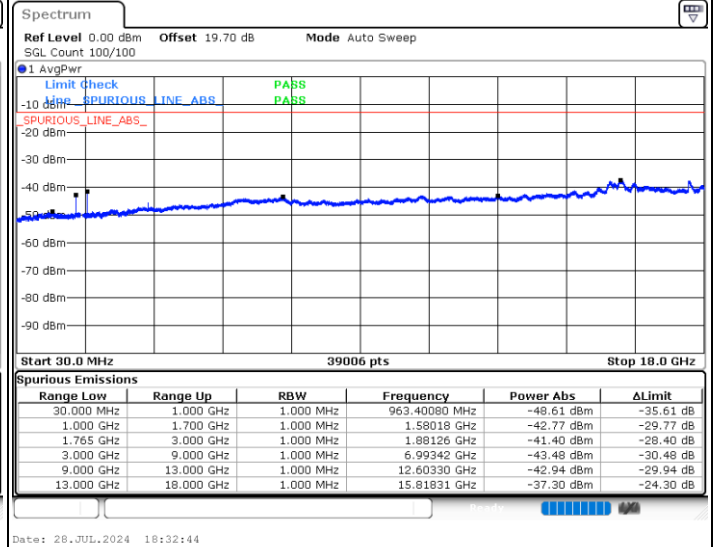
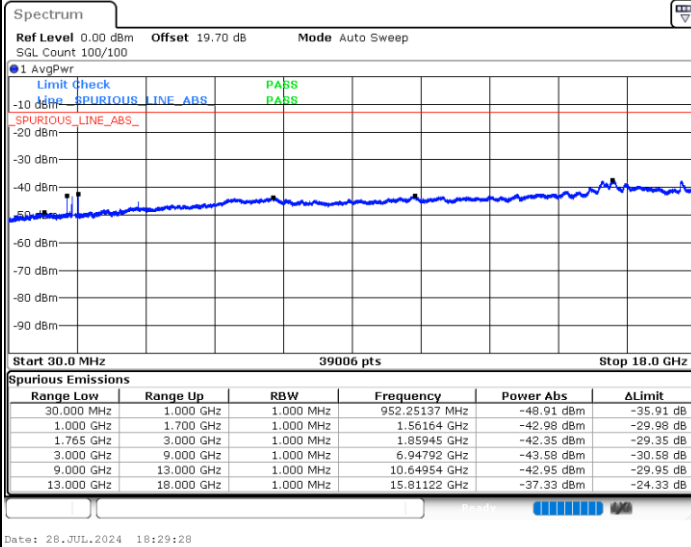
Date: 28.JUL.2024 18:22:39



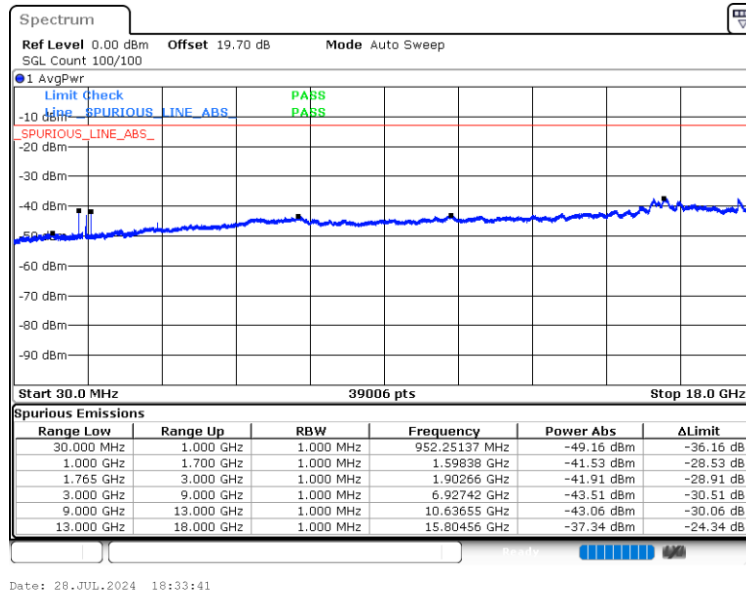
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

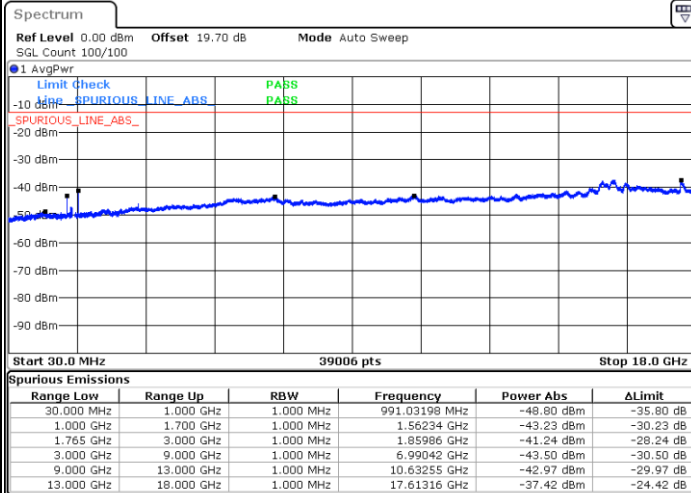




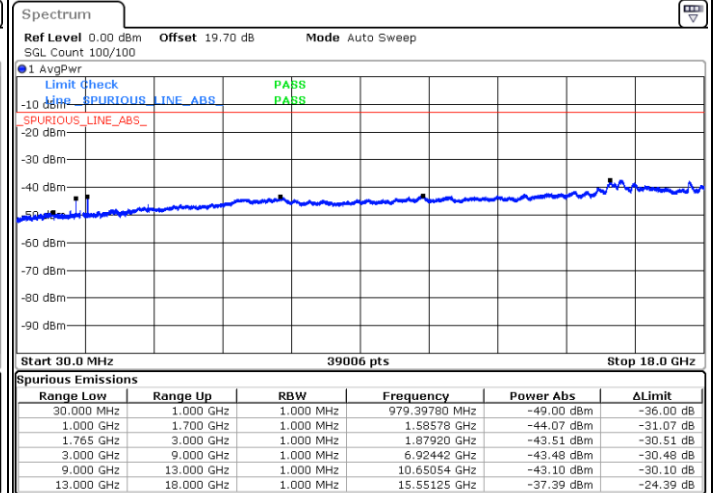
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

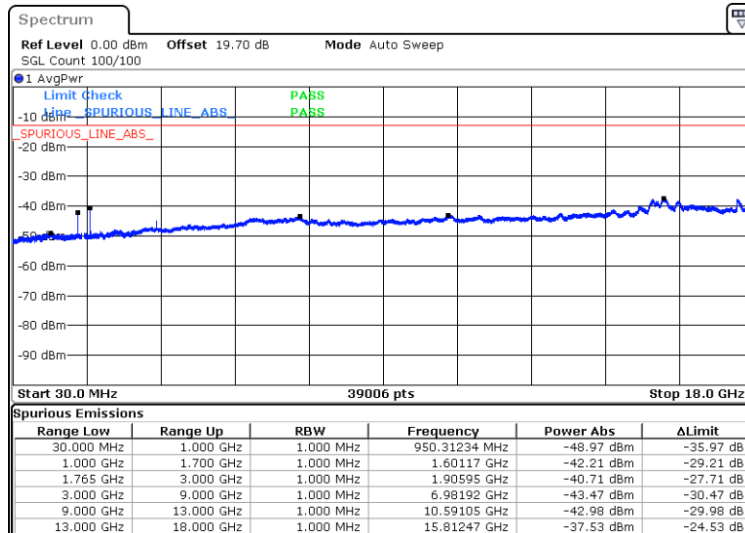


Date: 28.JUL.2024 18:38:39



Date: 28.JUL.2024 18:40:25

Highest Channel / QPSK

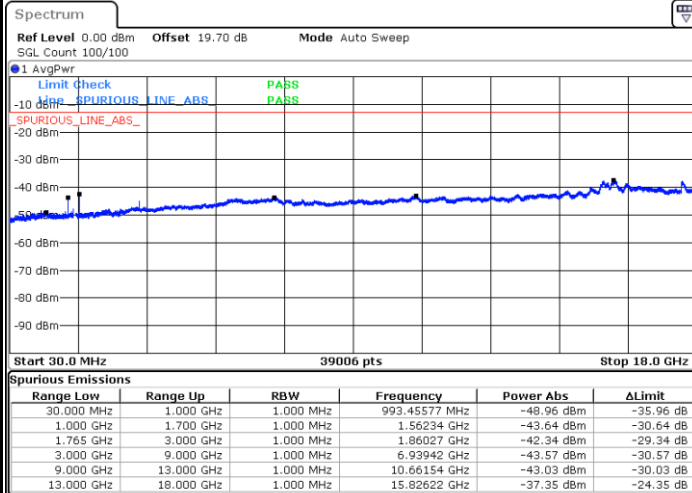


Date: 28.JUL.2024 18:43:26



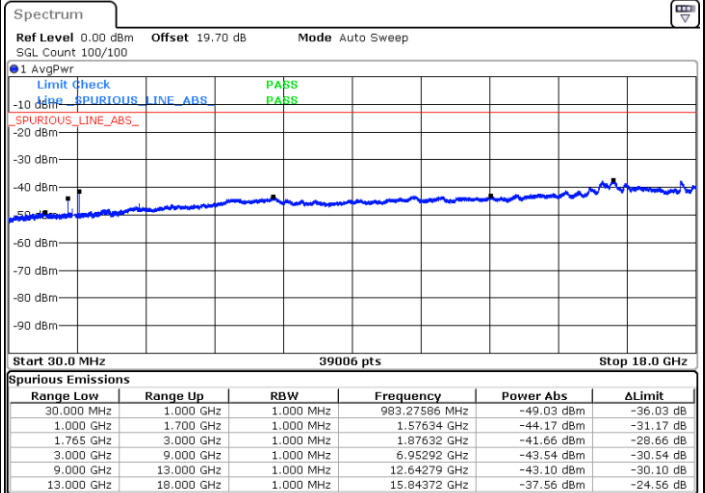
LTE Band 4 / 15MHz

Lowest Channel / QPSK



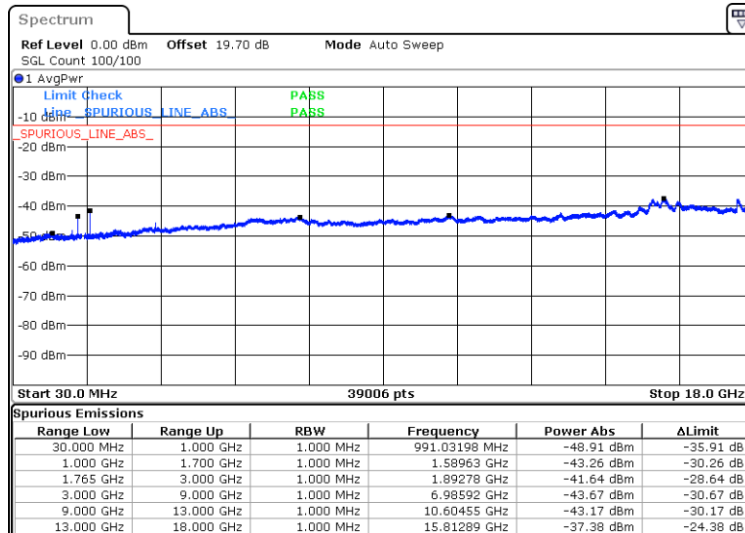
Date: 29.JUL.2024 09:25:12

Middle Channel / QPSK



Date: 29.JUL.2024 09:30:38

Highest Channel / QPSK



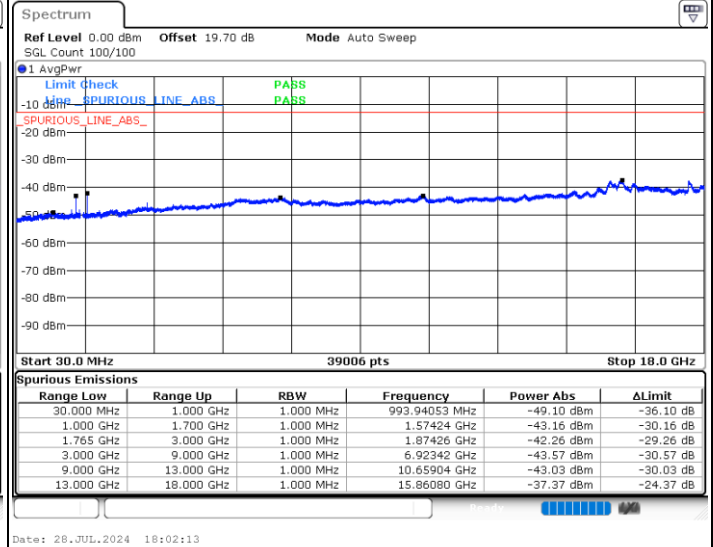
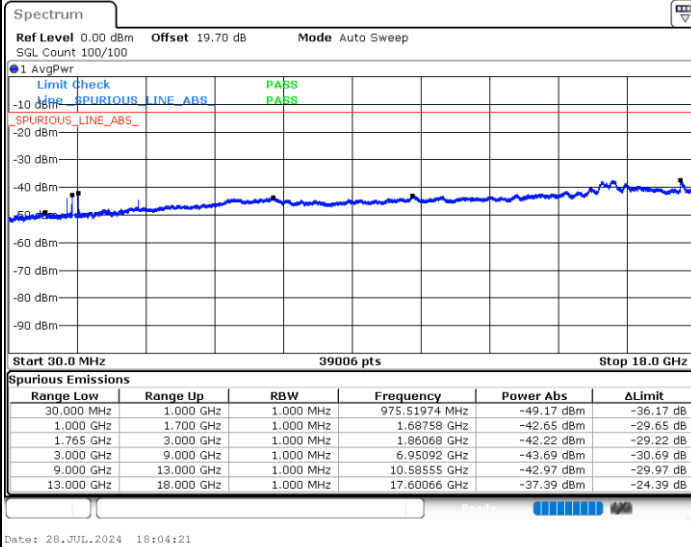
Date: 29.JUL.2024 09:32:23



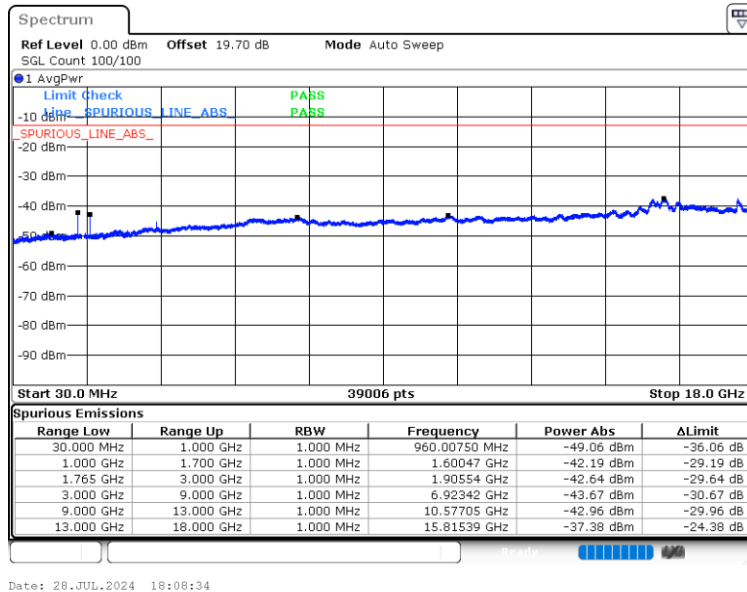
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

Note:

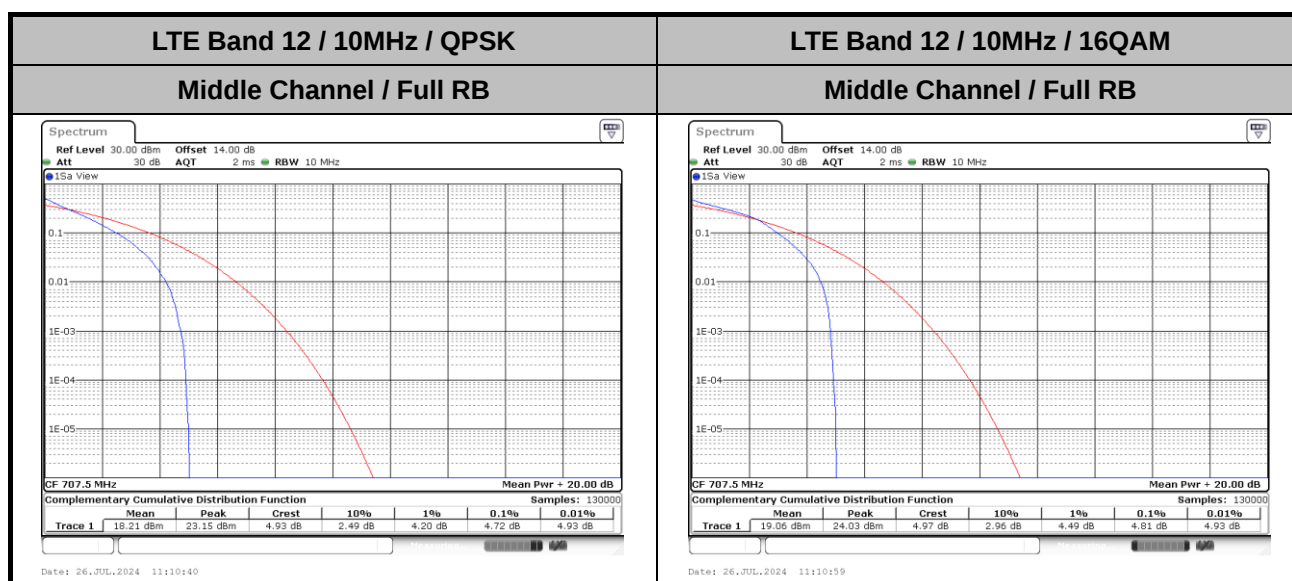
1. Normal Voltage = 6.0 V. ; Battery End Point (BEP) = 4.8 V. ; Maximum Voltage = 6.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

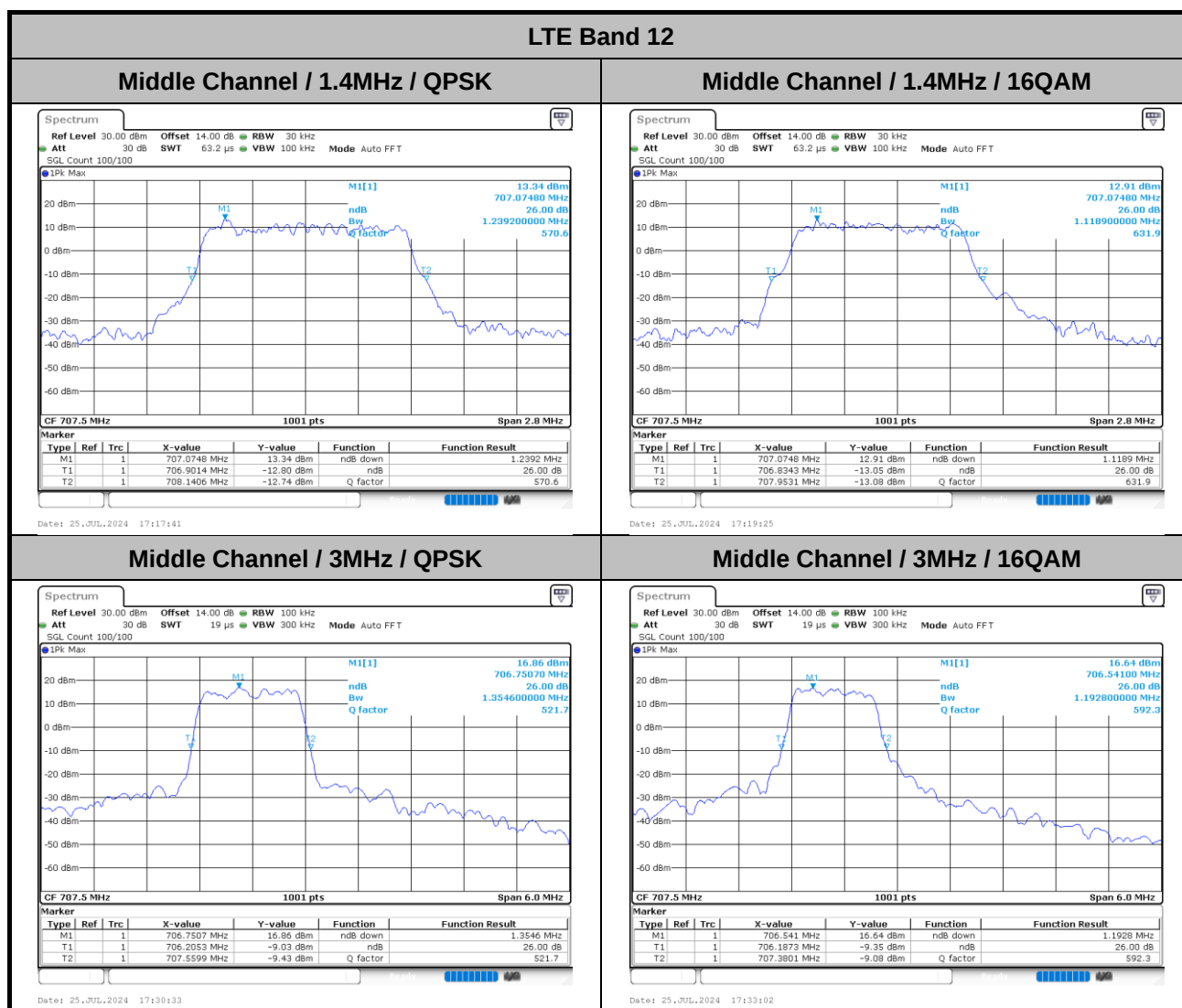
Mode	LTE Band 12 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.72	4.81	PASS





26dB Bandwidth

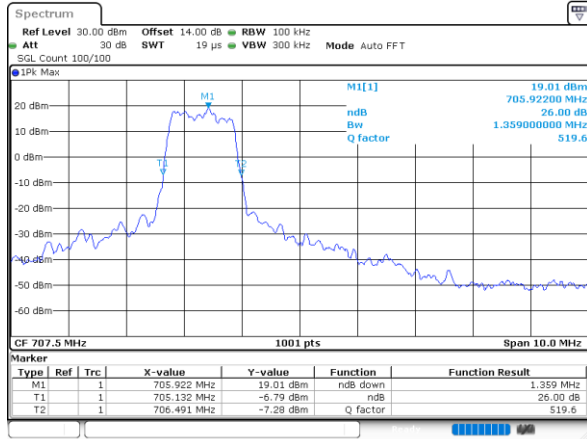
Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.24	1.12	1.35	1.19	1.36	1.18	1.78	1.64



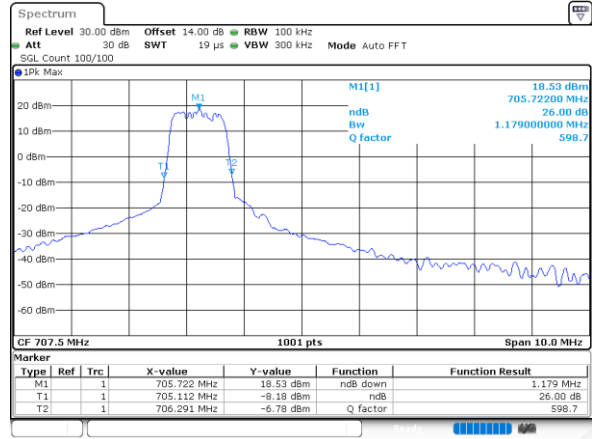


LTE Band 12

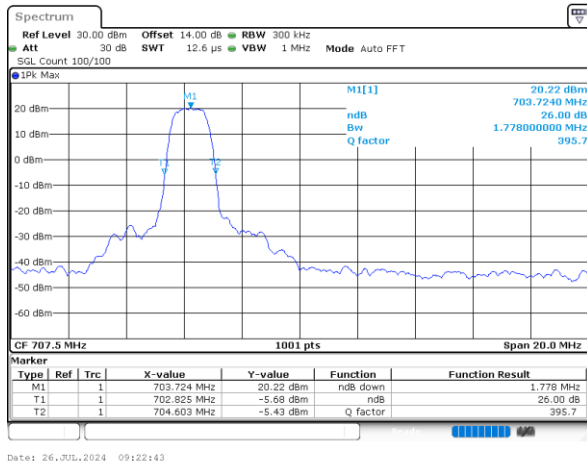
Middle Channel / 5MHz / QPSK



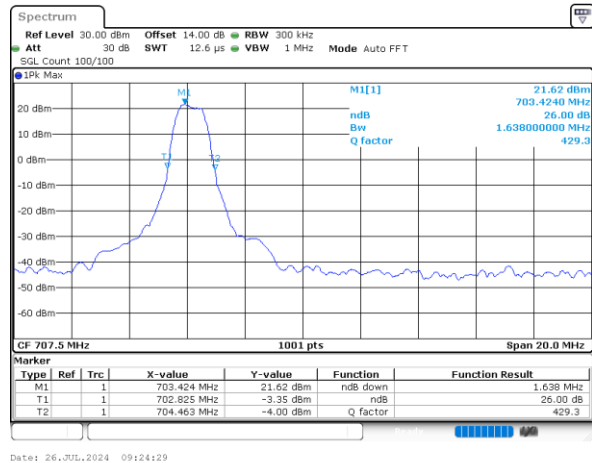
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



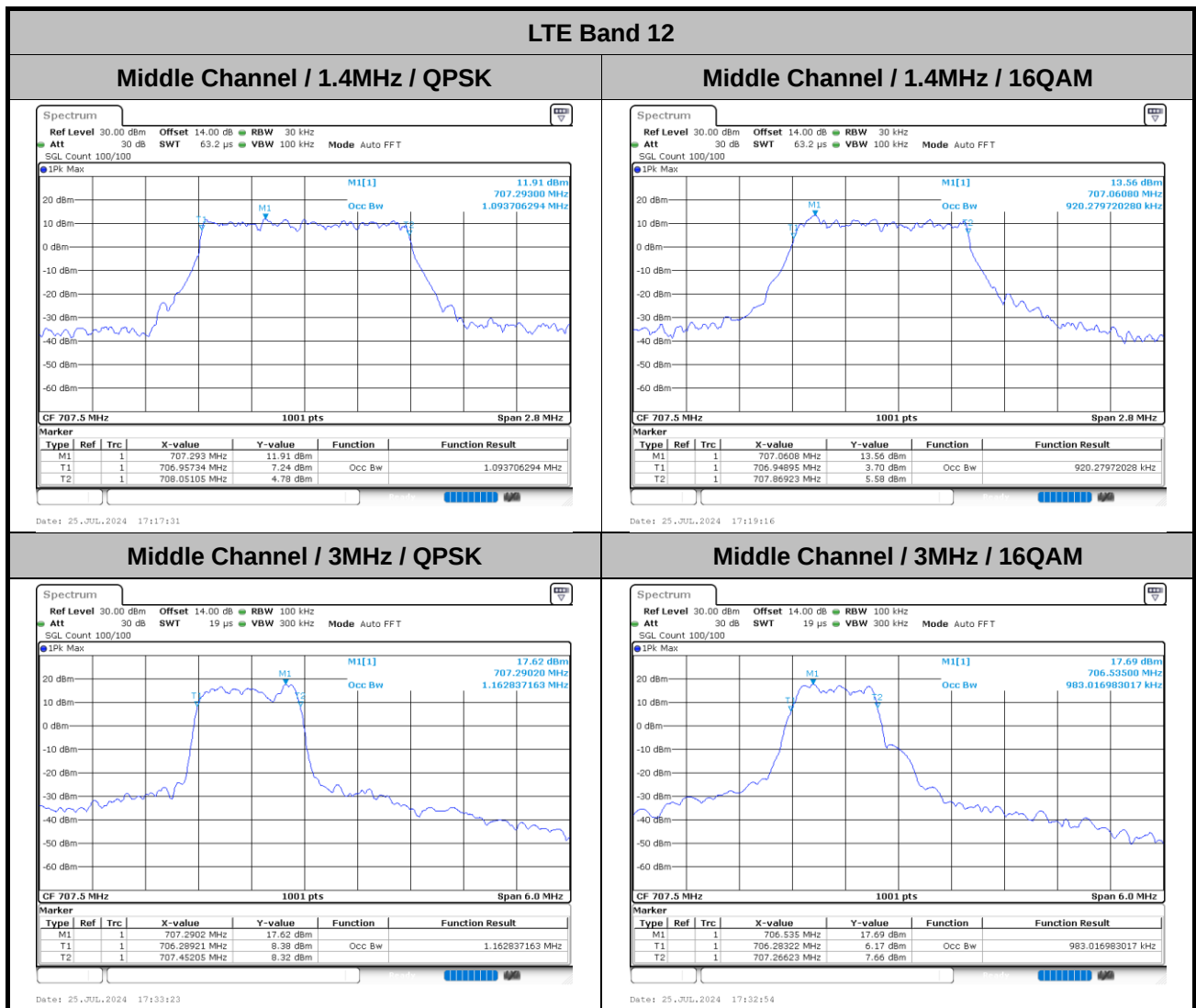
Middle Channel / 10MHz / 16QAM





Occupied Bandwidth

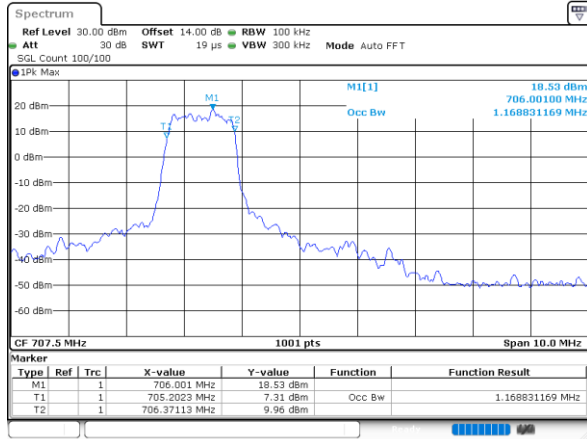
Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.094	0.920	1.163	0.983	1.169	0.979	1.419	1.299



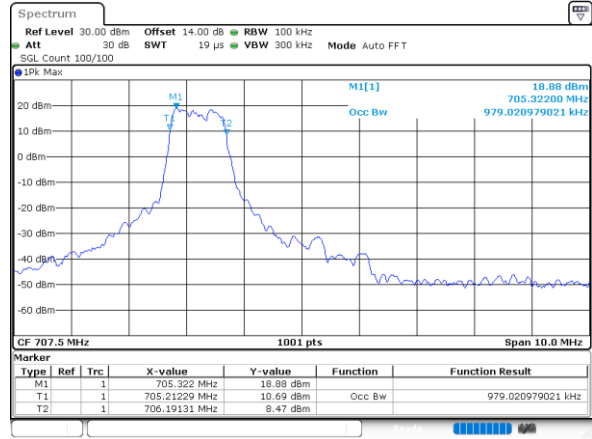


LTE Band 12

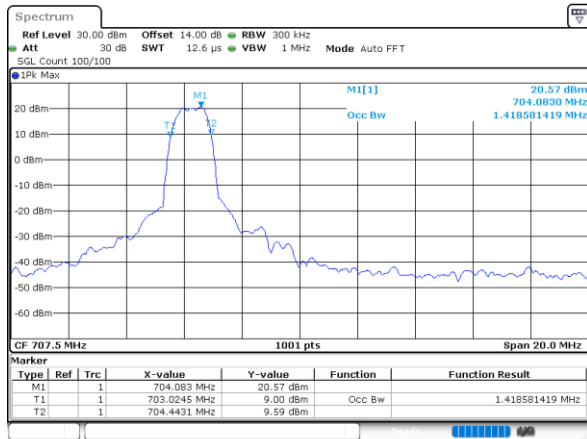
Middle Channel / 5MHz / QPSK



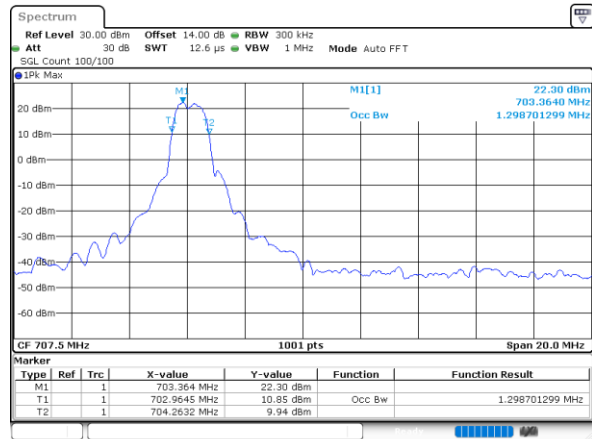
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

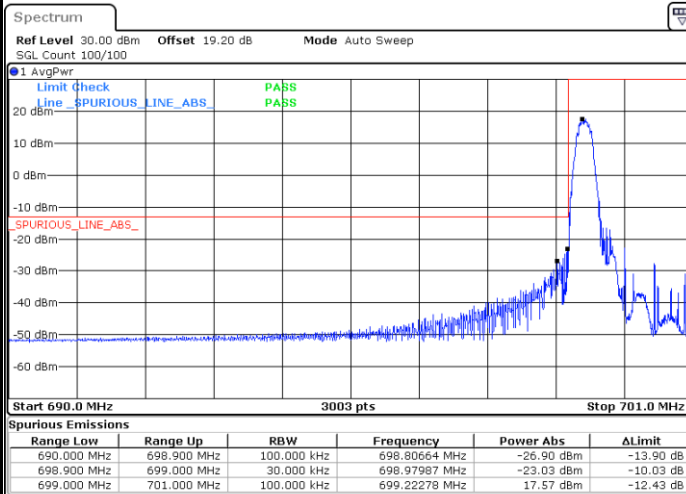




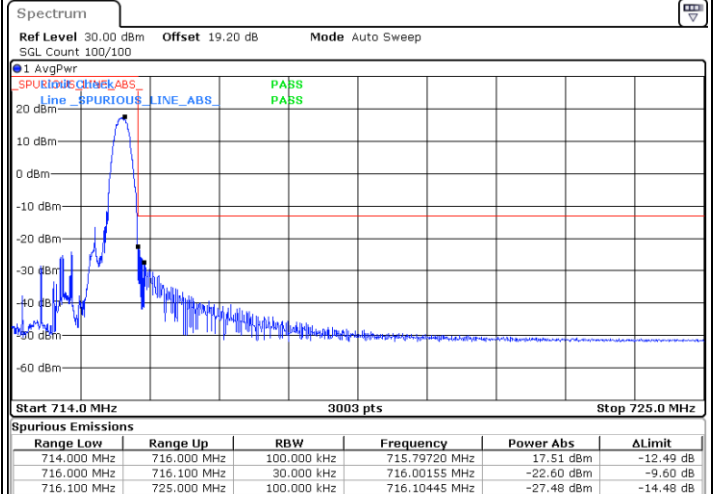
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

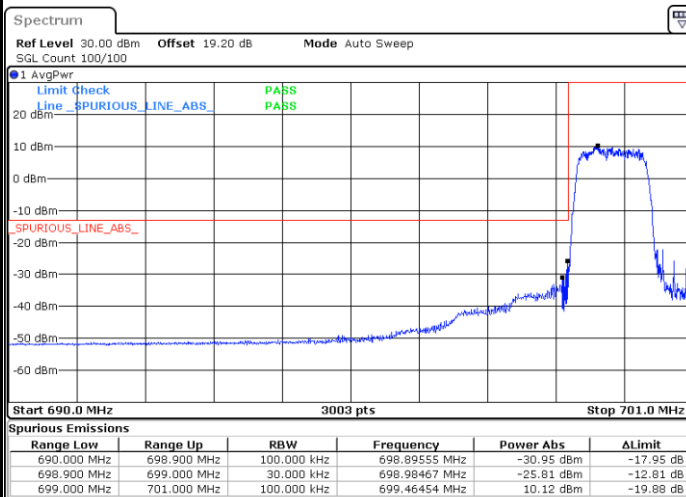
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



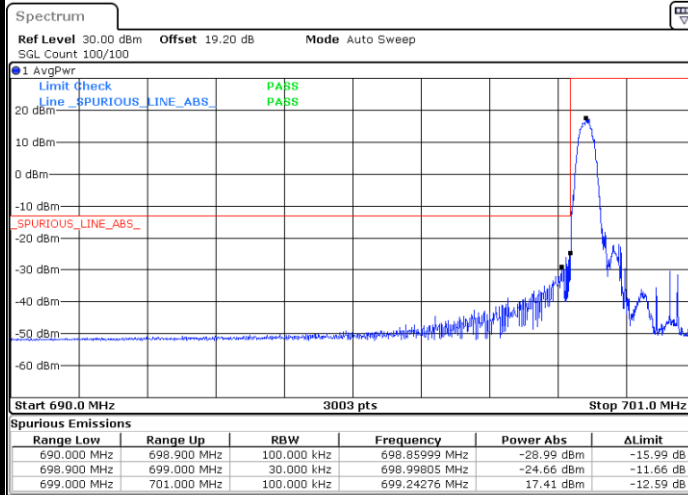
Highest Band Edge / Full RB



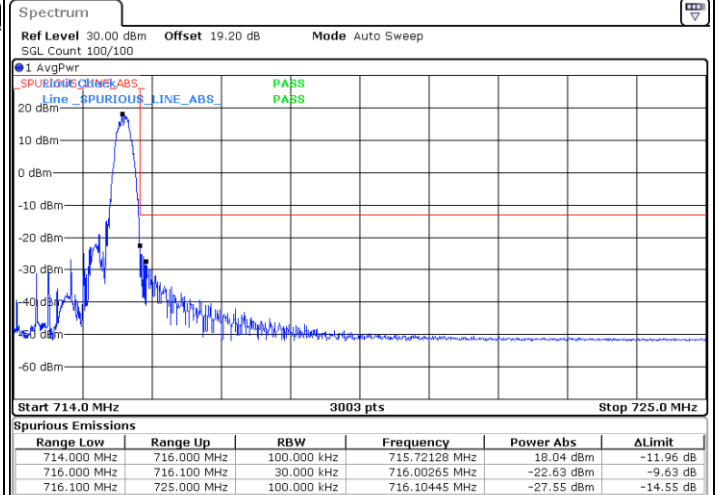


LTE Band 12 / 1.4MHz / 16QAM

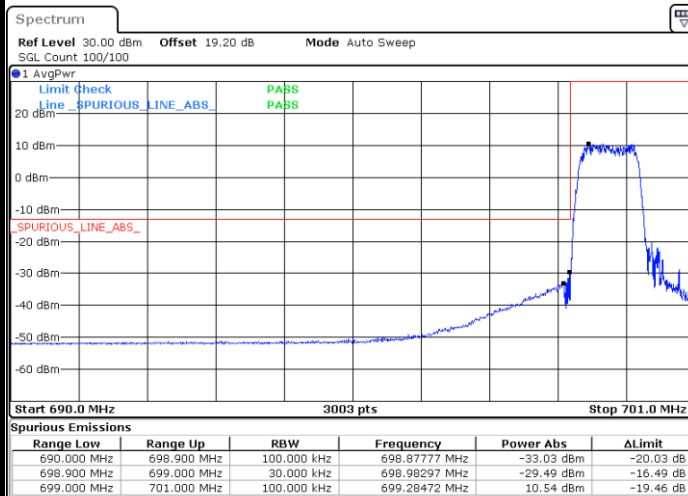
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

