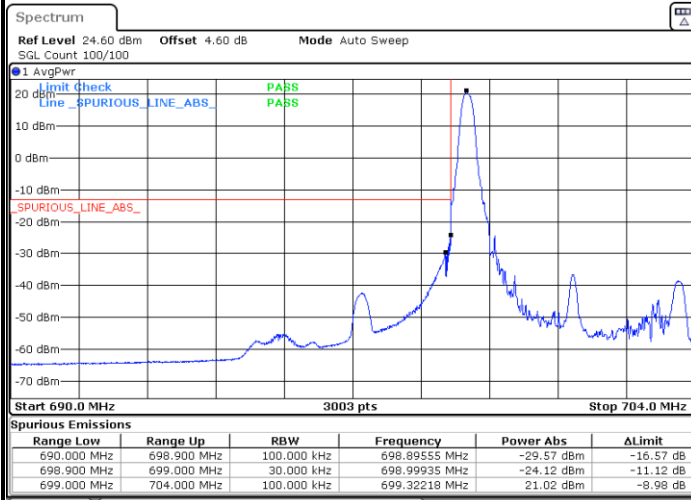


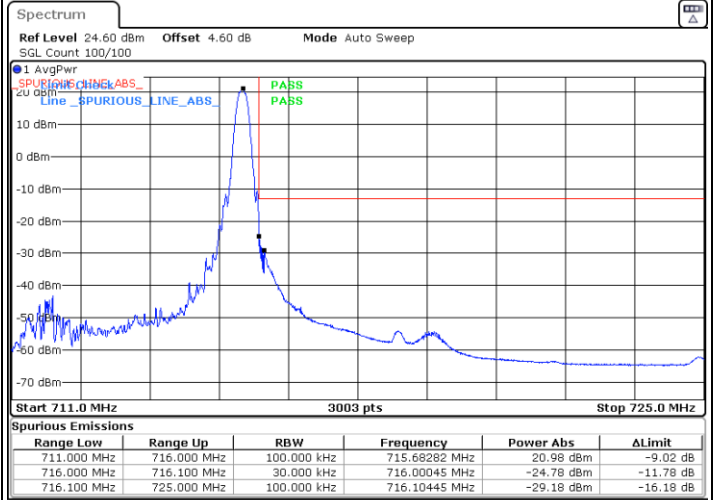


LTE Band 12 / 5MHz / 16QAM

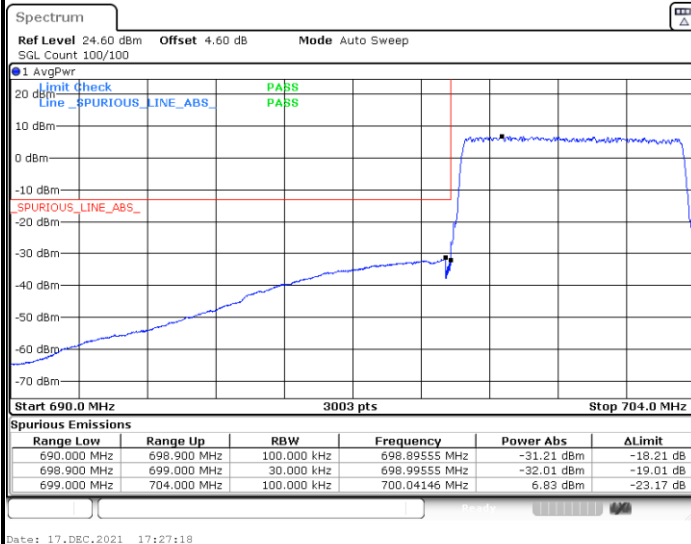
Lowest Band Edge / 1RB



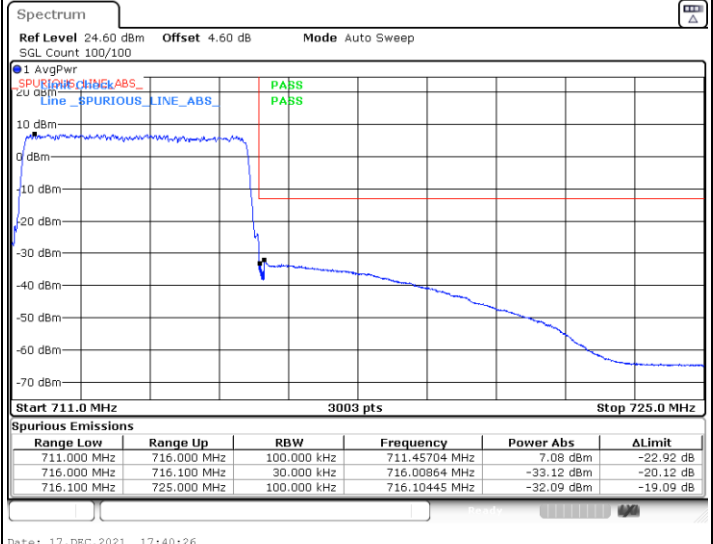
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



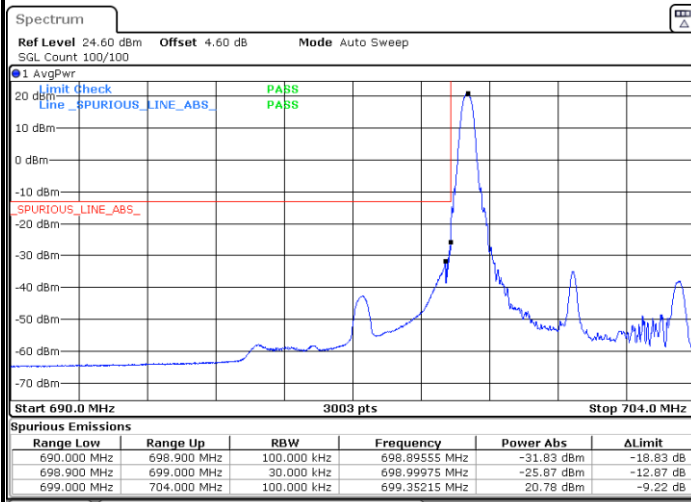
Highest Band Edge / Full RB



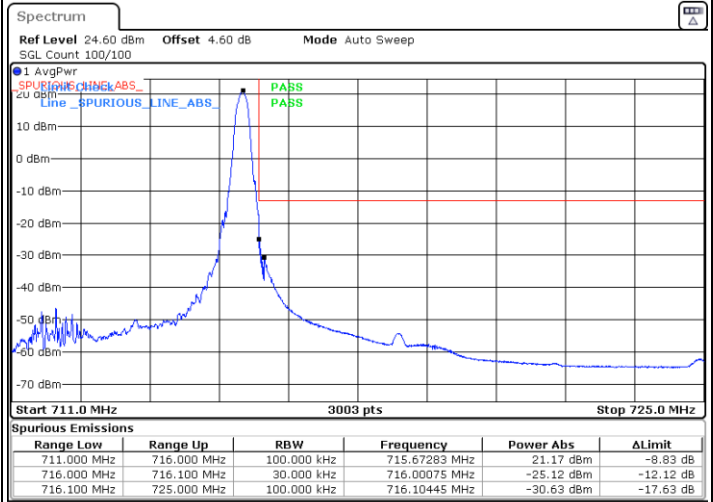


LTE Band 12 / 5MHz / 64QAM

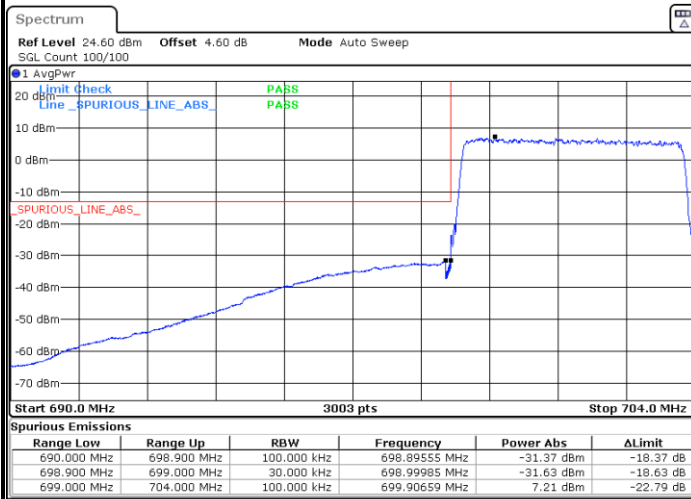
Lowest Band Edge / 1RB



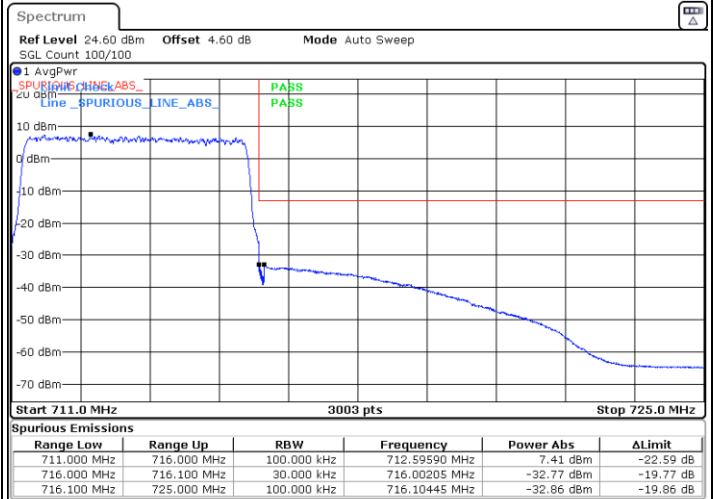
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



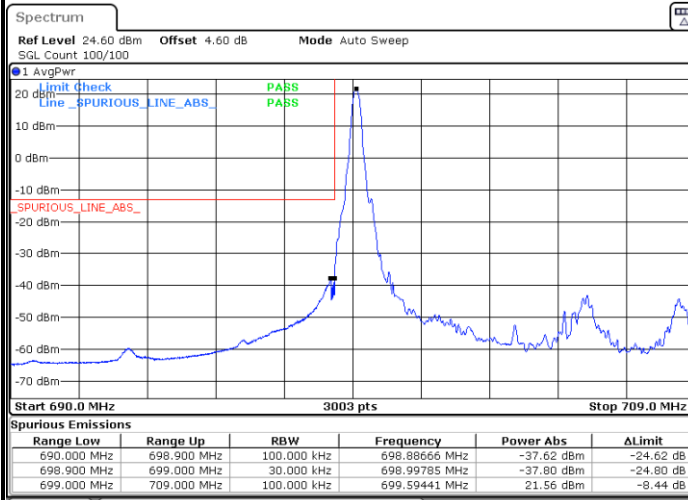
Highest Band Edge / Full RB



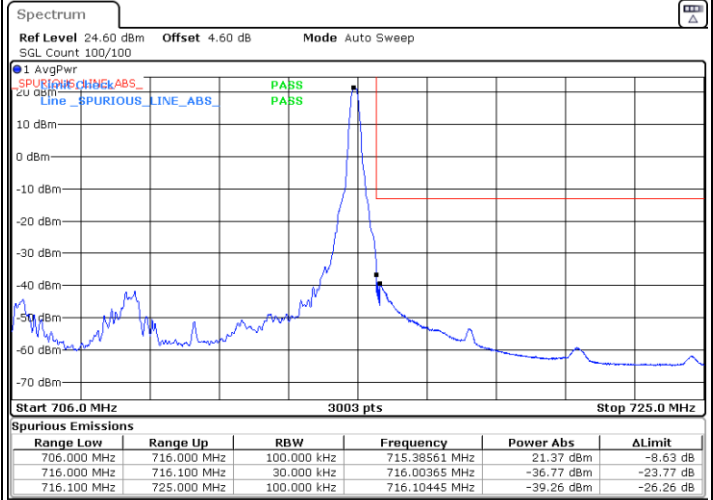


LTE Band 12 / 10MHz / QPSK

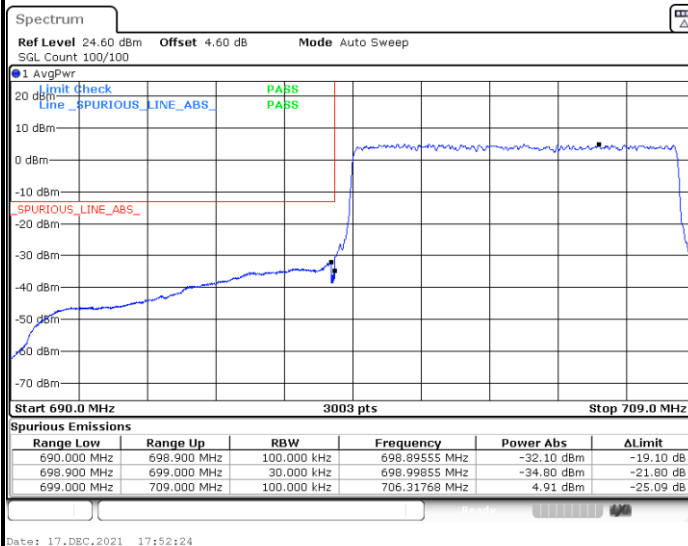
Lowest Band Edge / 1 RB



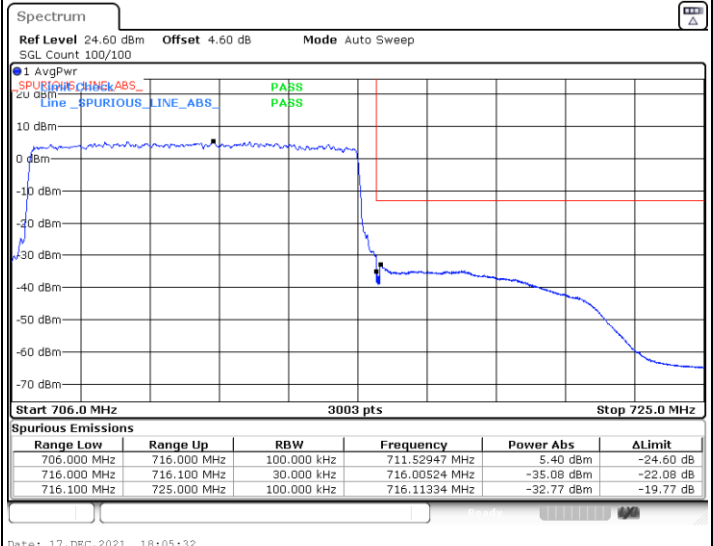
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



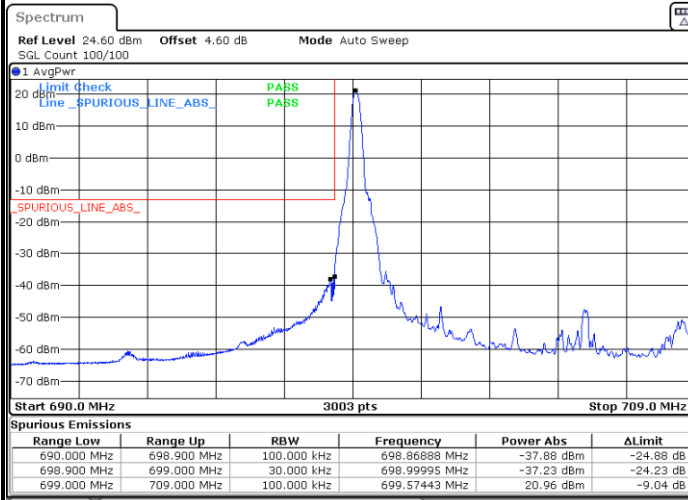
Highest Band Edge / Full RB



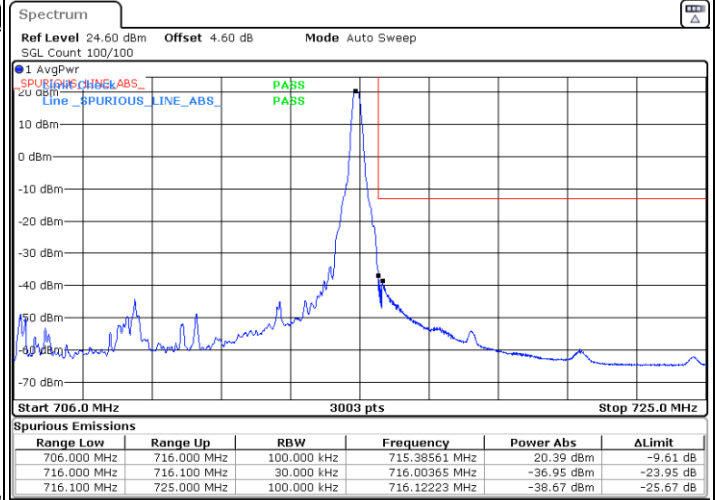


LTE Band 12 / 10MHz / 16QAM

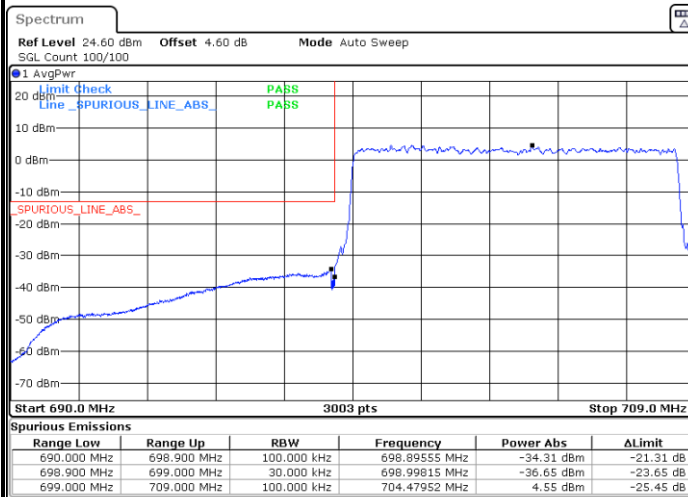
Lowest Band Edge / 1 RB



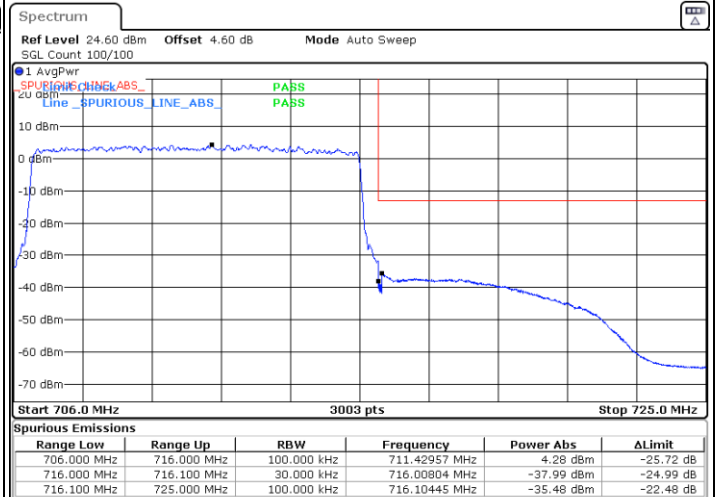
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



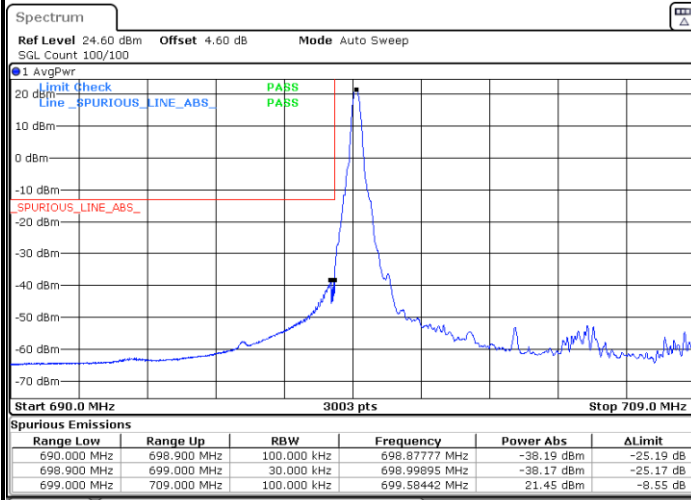
Highest Band Edge / Full RB



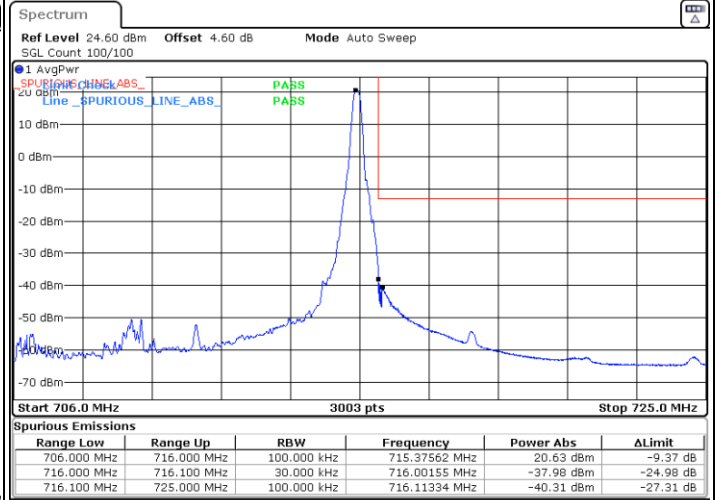


LTE Band 12 / 10MHz / 64QAM

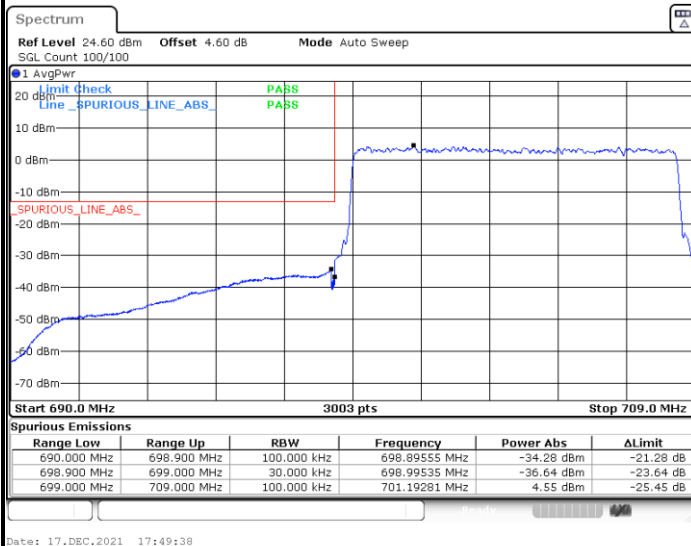
Lowest Band Edge / 1 RB



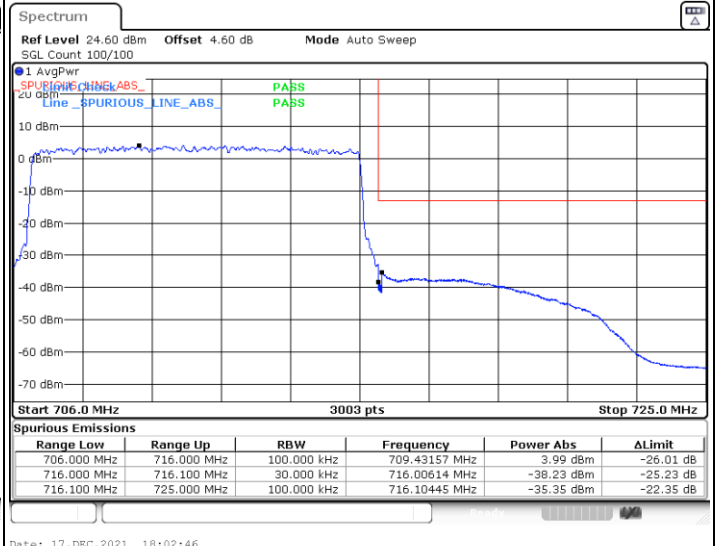
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

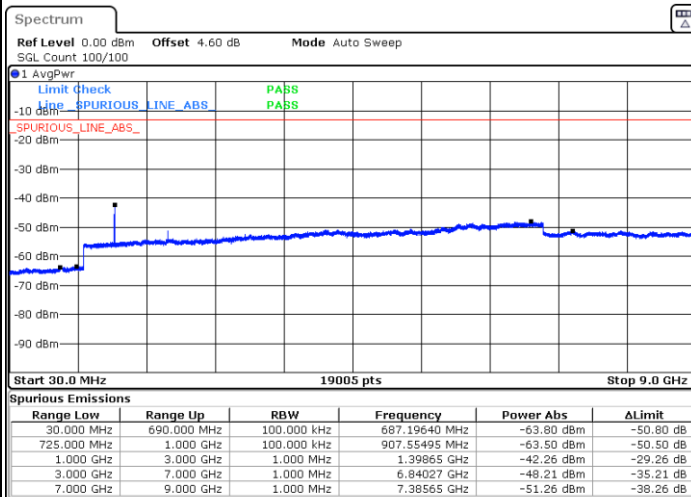




Conducted Spurious Emission

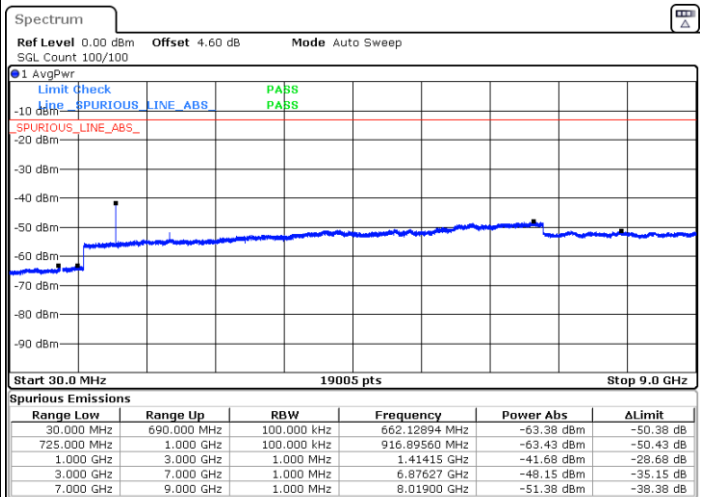
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



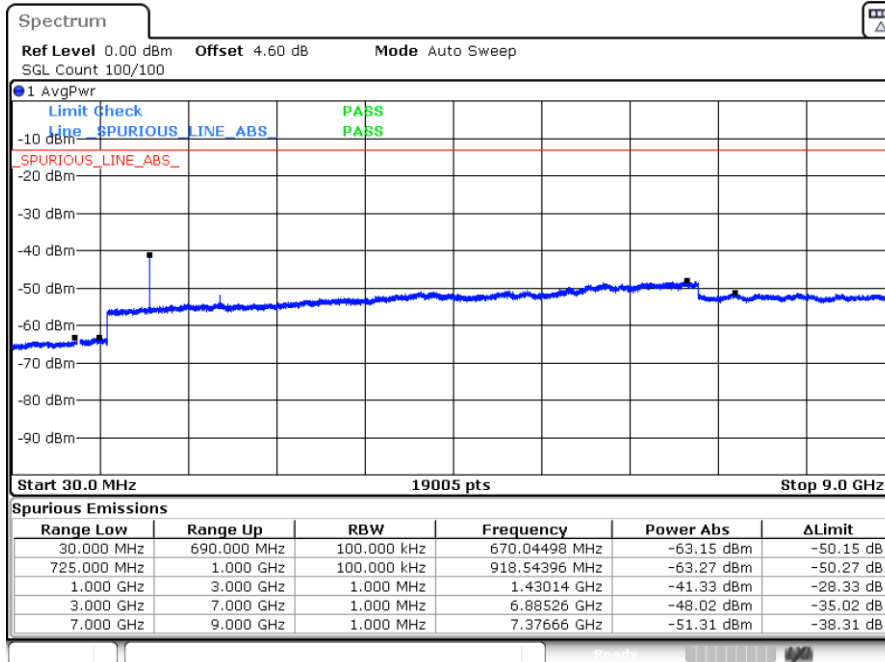
Date: 17.DEC.2021 16:33:06

Middle Channel / QPSK



Date: 17.DEC.2021 16:43:40

Highest Channel / QPSK

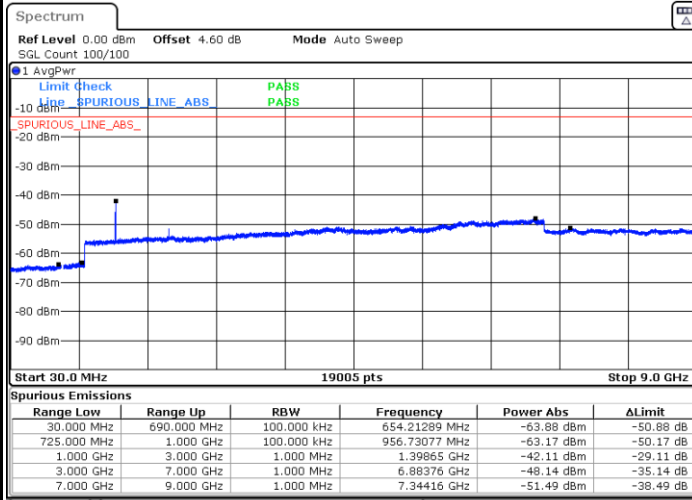


Date: 17.DEC.2021 16:46:05



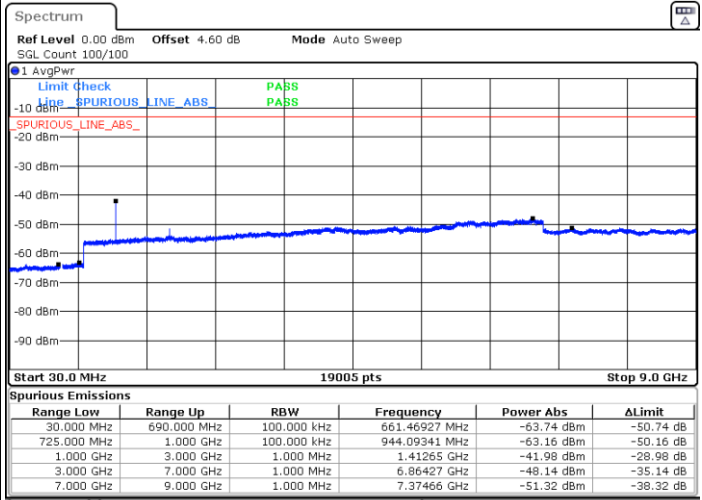
LTE Band 12 / 3MHz

Lowest Channel / QPSK



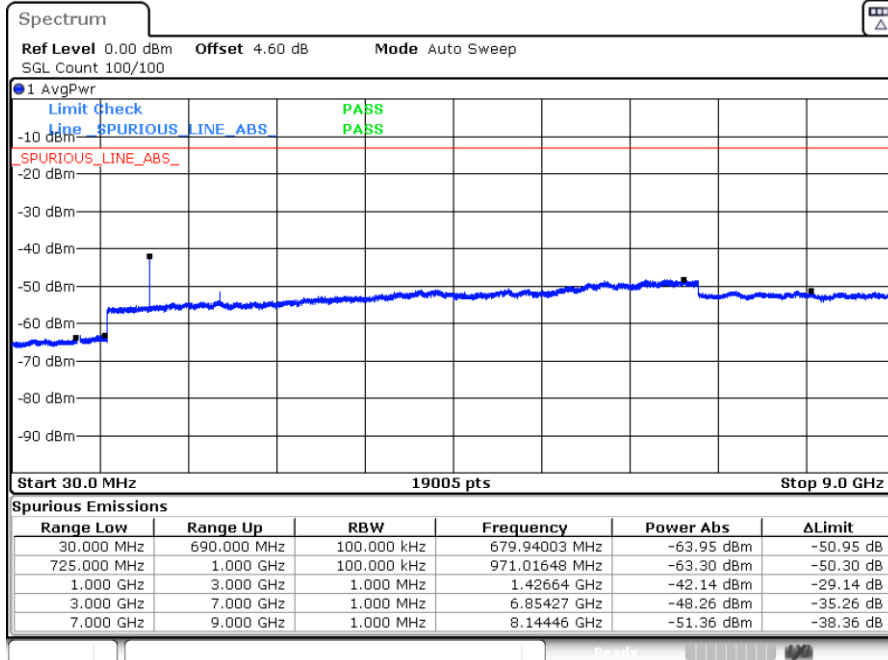
Date: 17.DEC.2021 16:56:50

Middle Channel / QPSK



Date: 17.DEC.2021 17:07:24

Highest Channel / QPSK

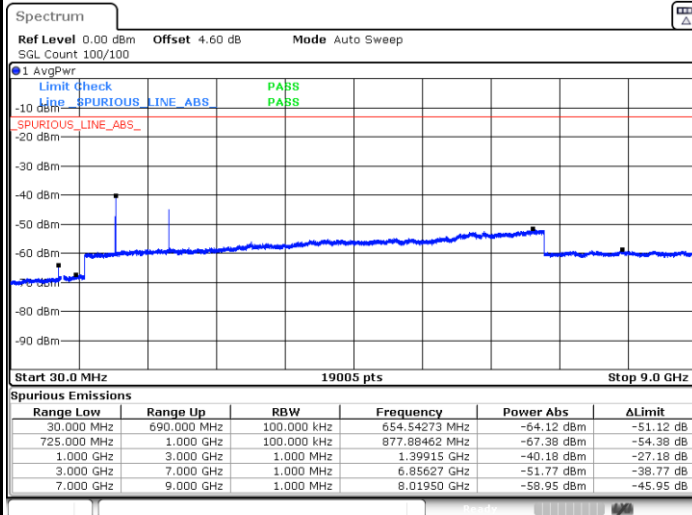


Date: 17.DEC.2021 17:09:48



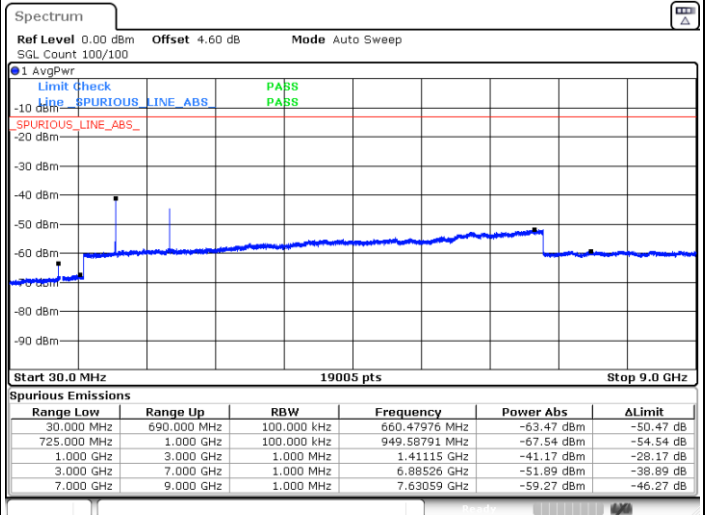
LTE Band 12 / 5MHz

Lowest Channel / QPSK



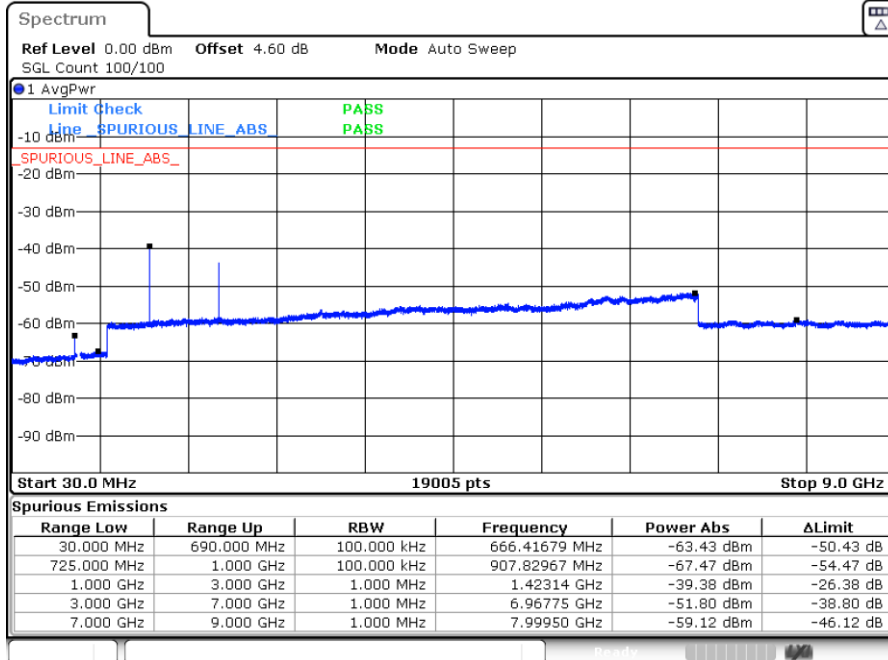
Date: 17.DEC.2021 17:20:33

Middle Channel / QPSK



Date: 17.DEC.2021 17:31:06

Highest Channel / QPSK

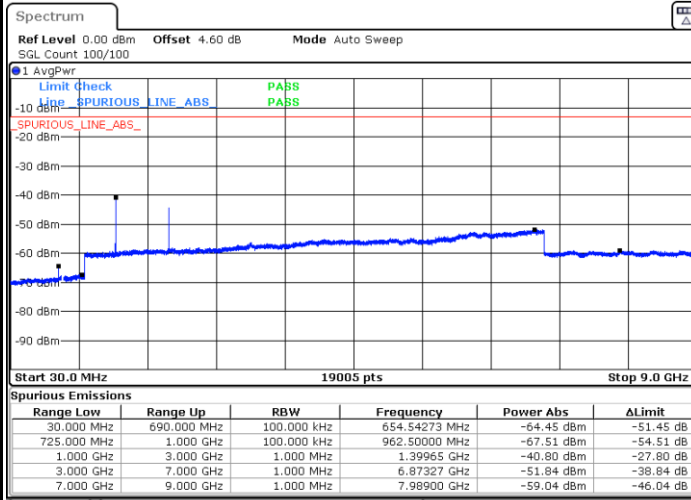


Date: 17.DEC.2021 17:33:31



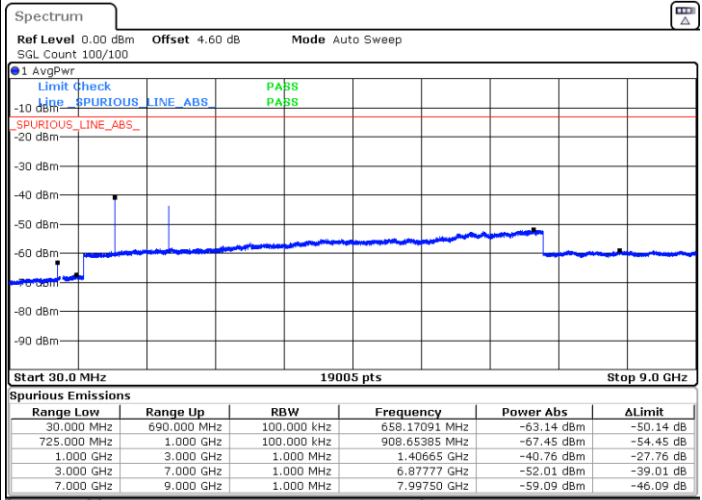
LTE Band 12 / 10MHz

Lowest Channel / QPSK



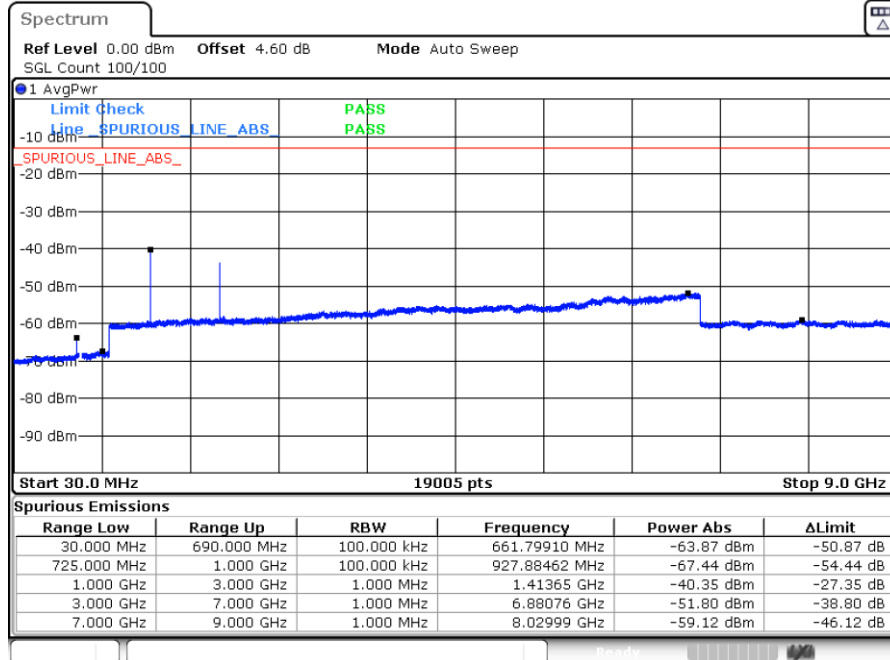
Date: 17.DEC.2021 17:44:15

Middle Channel / QPSK



Date: 17.DEC.2021 17:54:49

Highest Channel / QPSK



Date: 17.DEC.2021 17:57:13

Frequency Stability

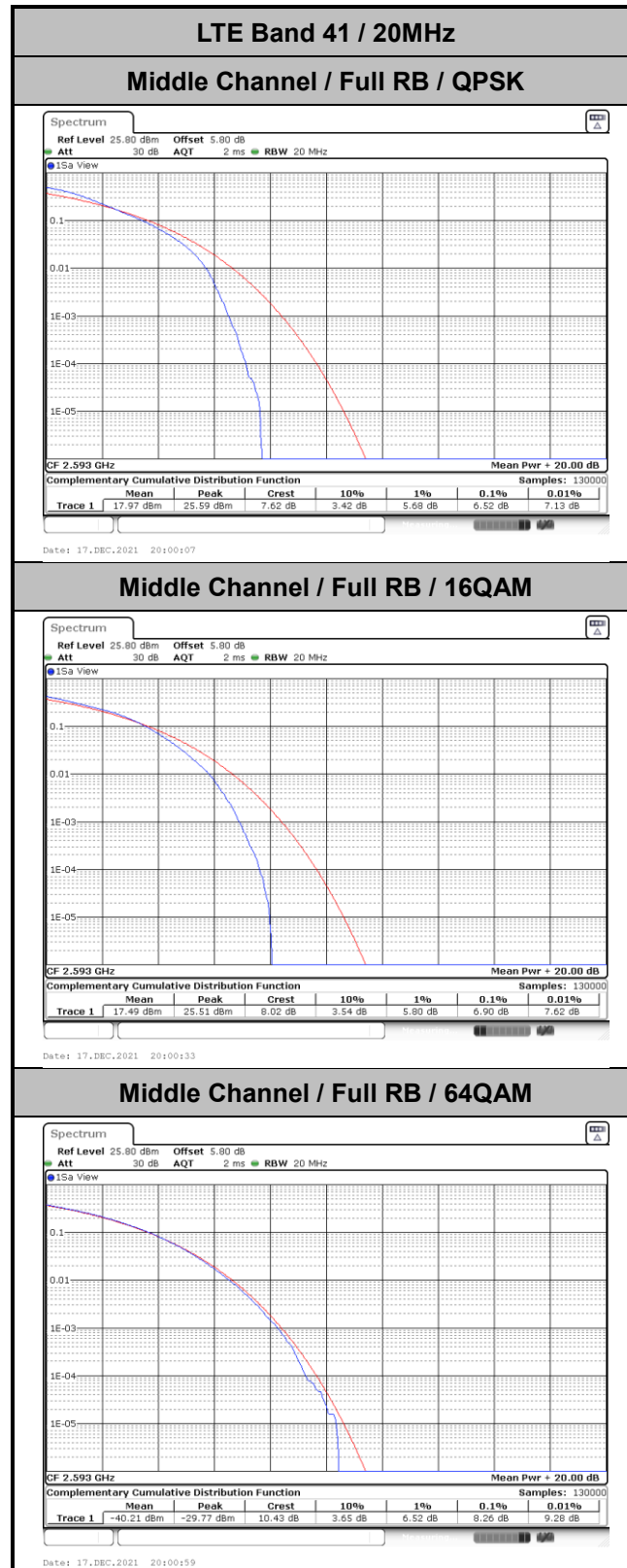
Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0041	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

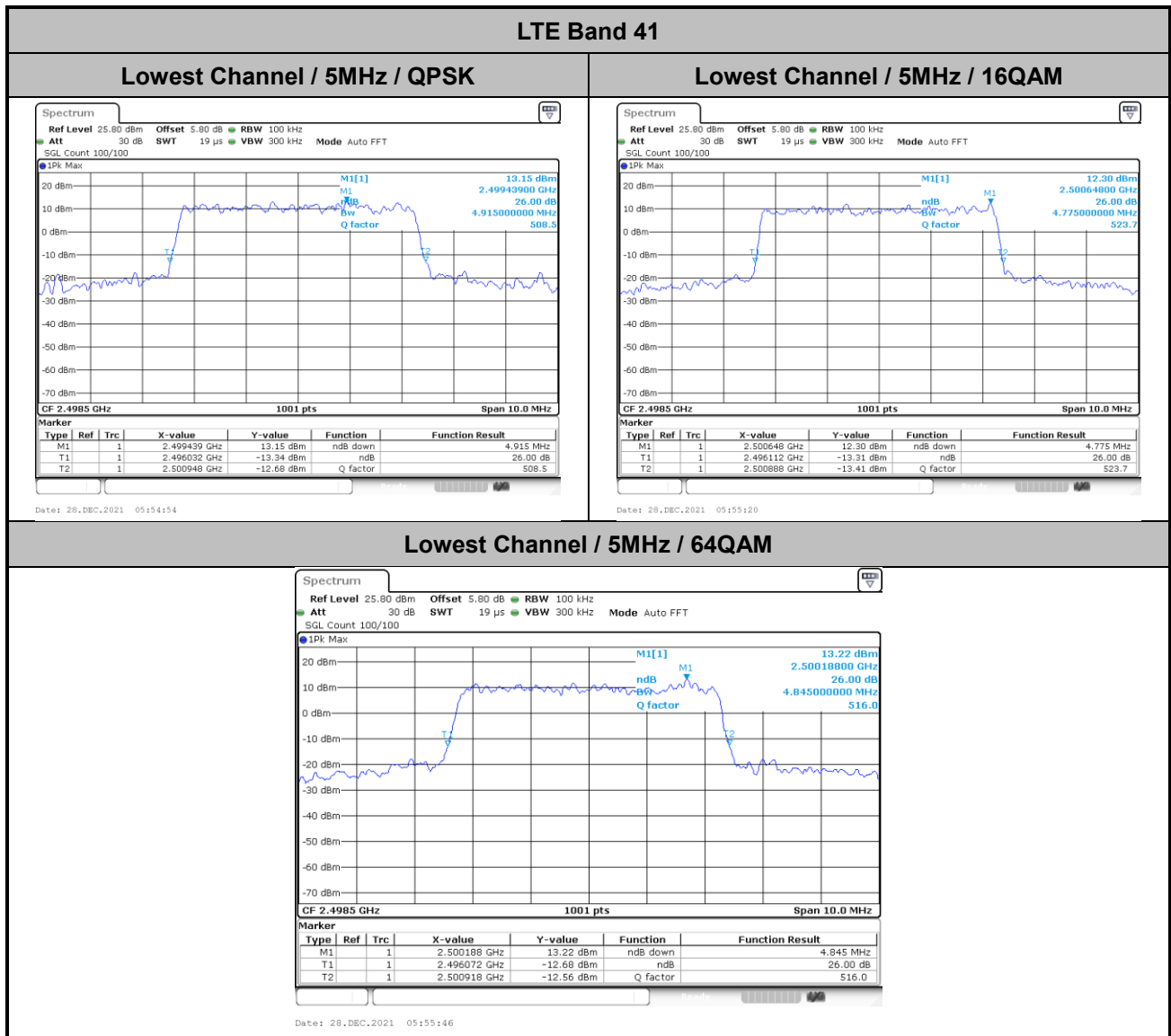
**LTE Band 41****Peak-to-Average Ratio**

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.52	6.90	8.26	PASS



**26dB Bandwidth**

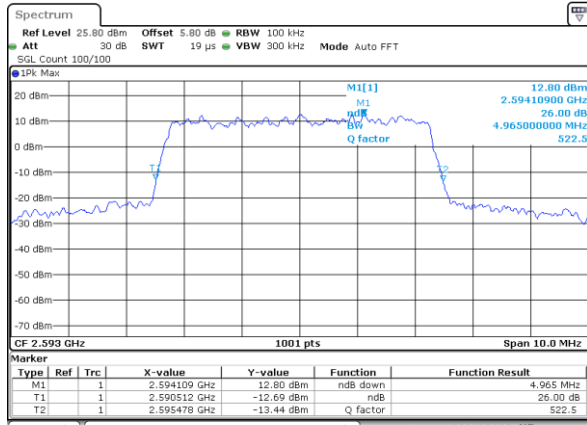
Mode	LTE Band 41 : 26dB BW(MHz)		
BW	5MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	4.92	4.78	4.85
Middle CH	4.97	5.00	5.22
Highest CH	4.92	4.88	4.91



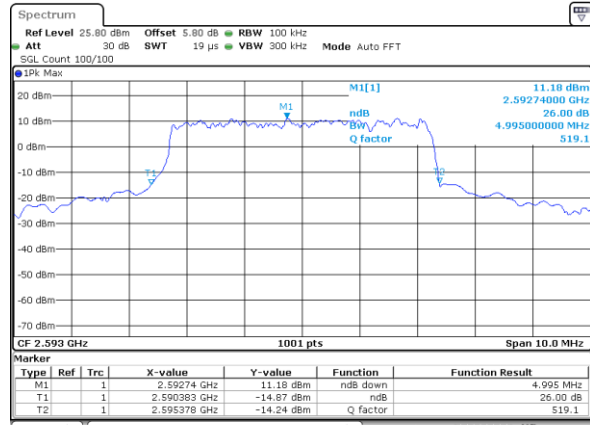


LTE Band 41

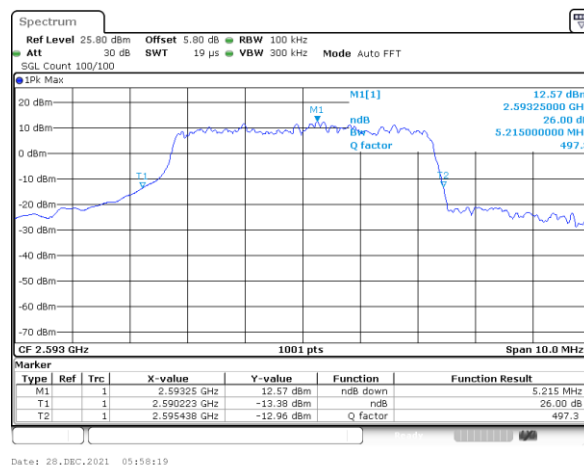
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



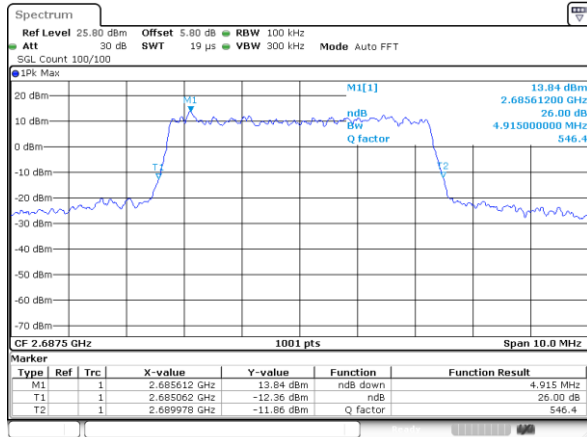
Middle Channel / 5MHz / 64QAM



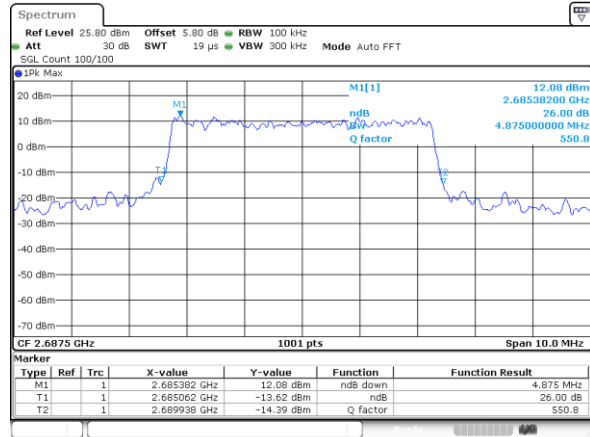


LTE Band 41

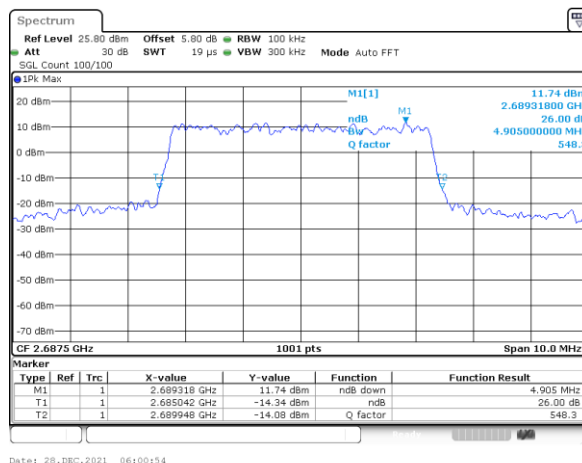
Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



Highest Channel / 5MHz / 64QAM

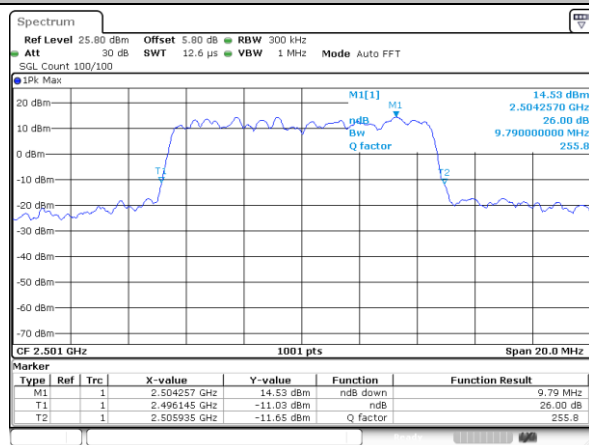




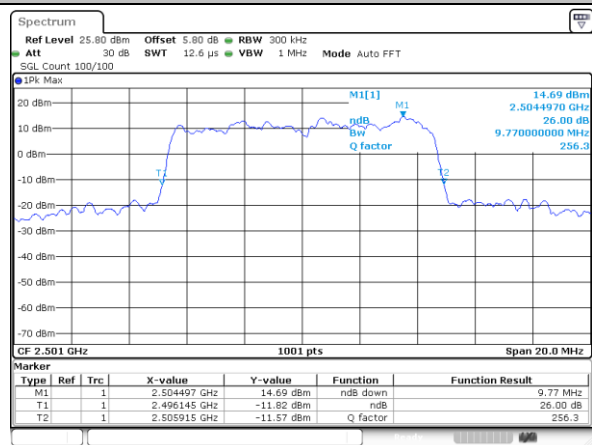
Mode	LTE Band 41 : 26dB BW(MHz)		
BW	10MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	9.79	9.77	9.75
Middle CH	9.73	9.67	9.79
Highest CH	9.71	9.61	9.79

LTE Band 41

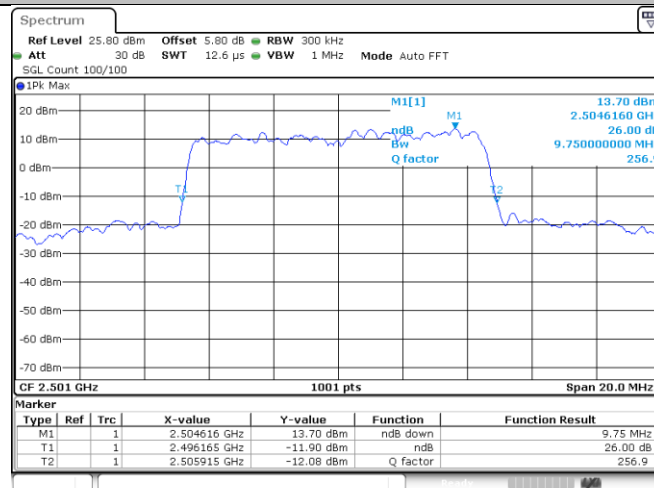
Lowest Channel / 10MHz / QPSK



Lowest Channel / 10MHz / 16QAM



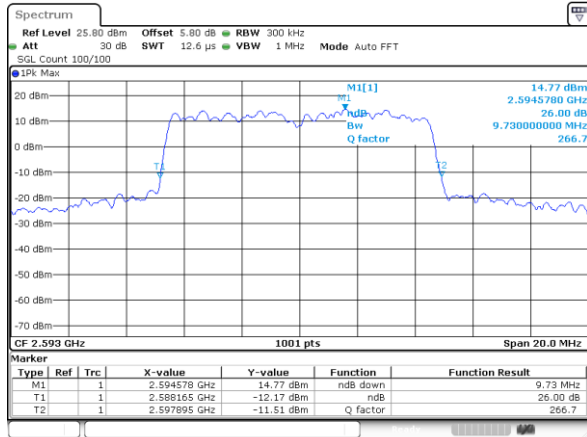
Lowest Channel / 10MHz / 64QAM





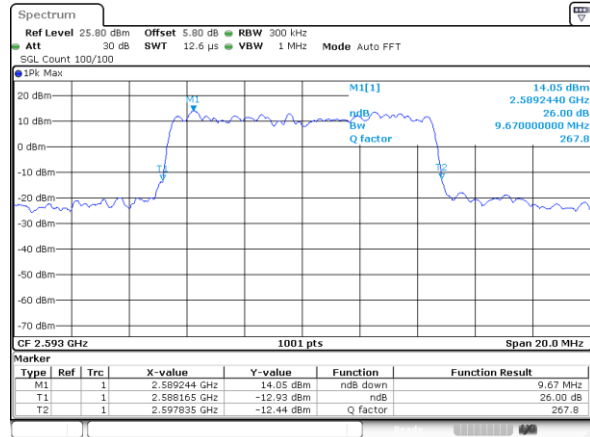
LTE Band 41

Middle Channel / 10MHz / QPSK



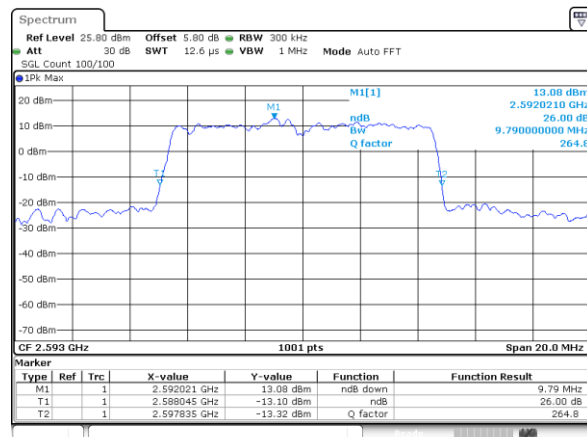
Date: 28.DEC.2021 06:09:26

Middle Channel / 10MHz / 16QAM



Date: 28.DEC.2021 06:09:51

Middle Channel / 10MHz / 64QAM

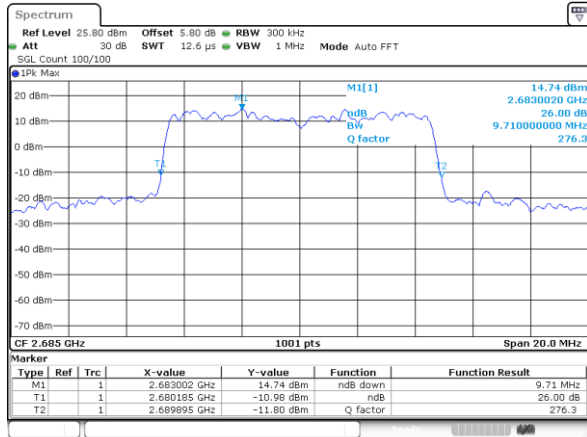


Date: 28.DEC.2021 06:10:16

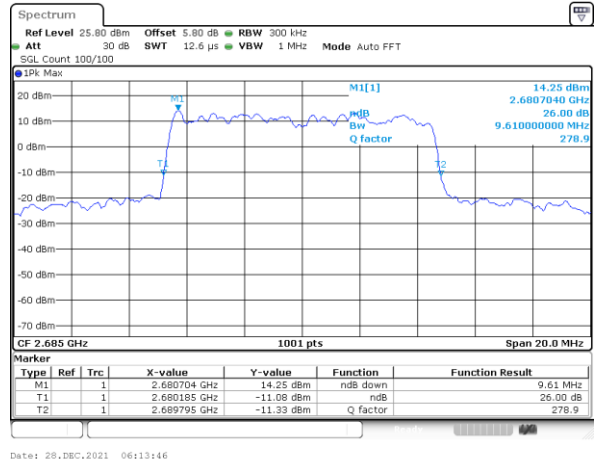


LTE Band 41

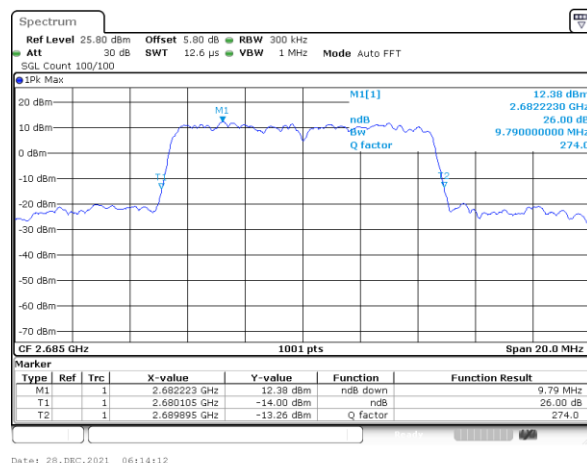
Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

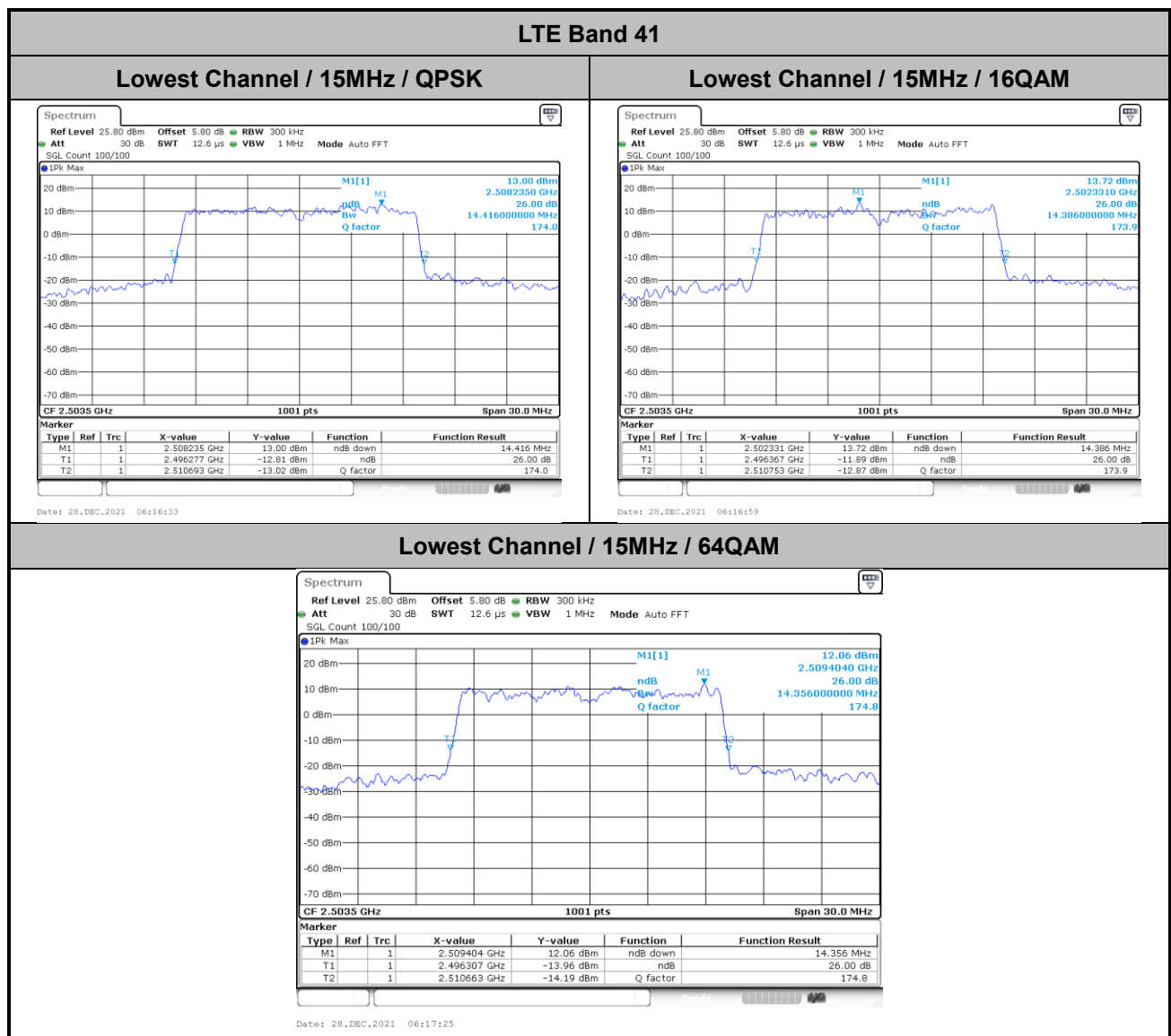


Highest Channel / 10MHz / 64QAM





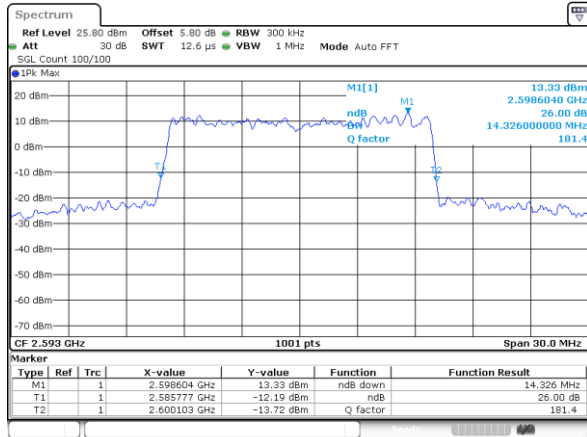
Mode	LTE Band 41 : 26dB BW(MHz)		
BW	15MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	14.42	14.39	14.36
Middle CH	14.33	14.27	14.33
Highest CH	14.42	14.45	14.42





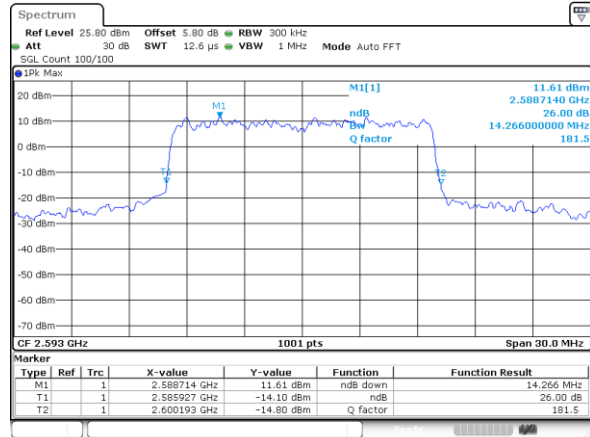
LTE Band 41

Middle Channel / 15MHz / QPSK



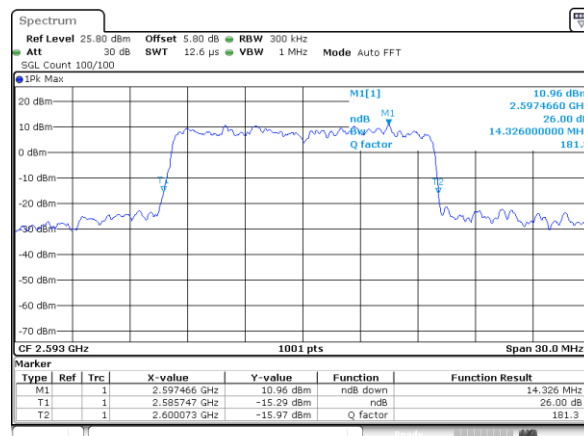
Date: 28.DEC.2021 06:19:06

Middle Channel / 15MHz / 16QAM



Date: 28.DEC.2021 06:19:31

Middle Channel / 15MHz / 64QAM

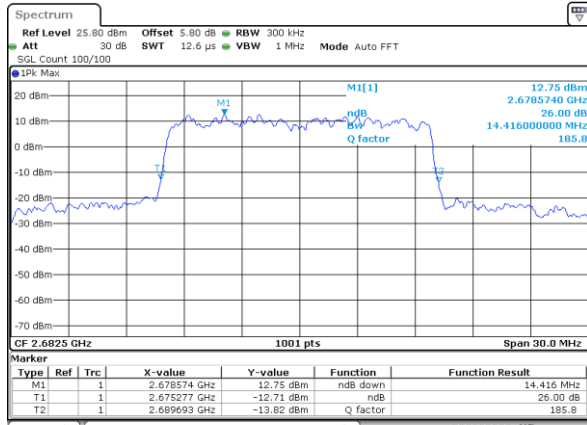


Date: 28.DEC.2021 06:19:57



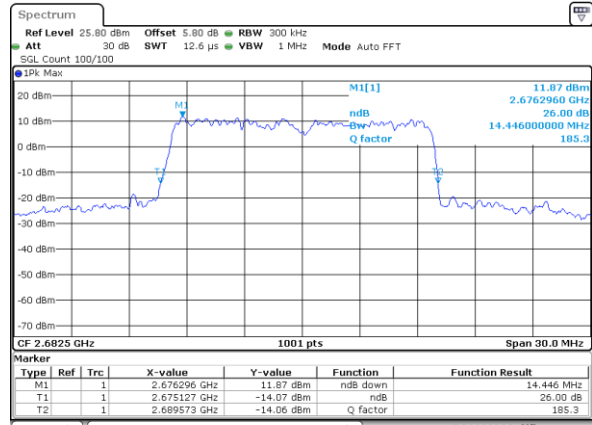
LTE Band 41

Highest Channel / 15MHz / QPSK



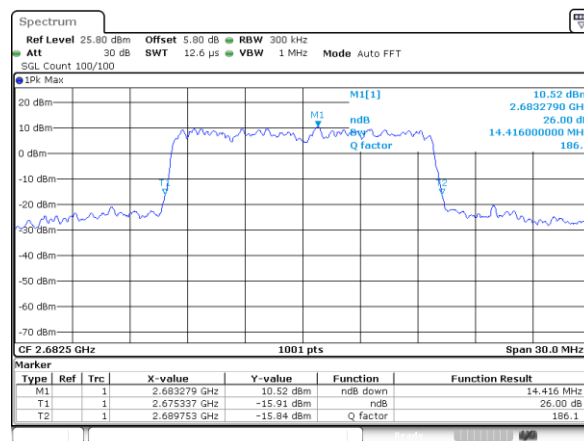
Date: 28.DEC.2021 06:22:48

Highest Channel / 15MHz / 16QAM



Date: 28.DEC.2021 06:23:14

Highest Channel / 15MHz / 64QAM



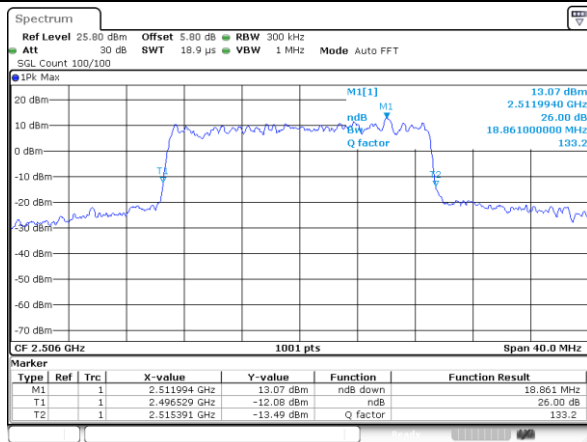
Date: 28.DEC.2021 06:23:40



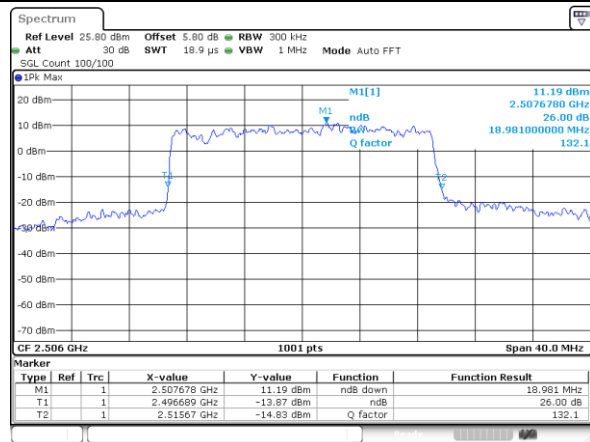
Mode	LTE Band 41 : 26dB BW(MHz)		
BW	20MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	18.86	18.98	18.70
Middle CH	18.86	18.66	19.18
Highest CH	18.70	18.98	18.90

LTE Band 41

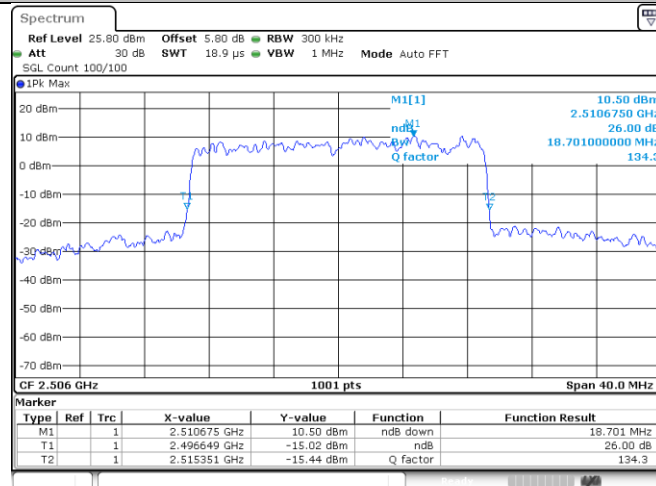
Lowest Channel / 20MHz / QPSK



Lowest Channel / 20MHz / 16QAM



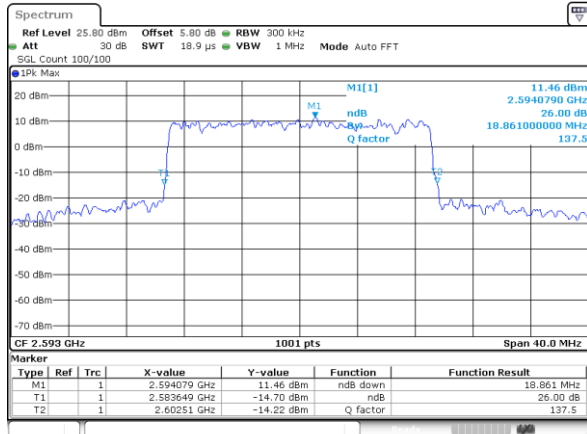
Lowest Channel / 20MHz / 64QAM





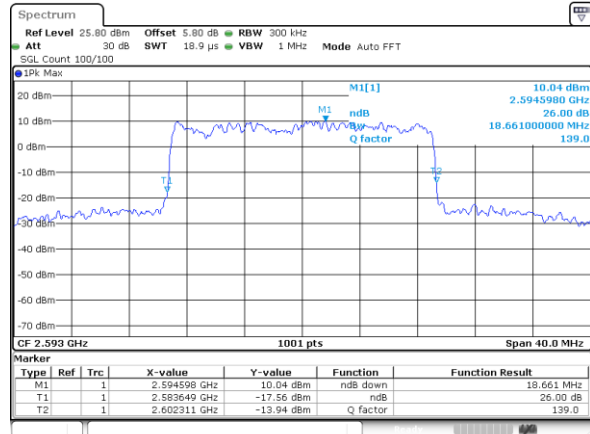
LTE Band 41

Middle Channel / 20MHz / QPSK



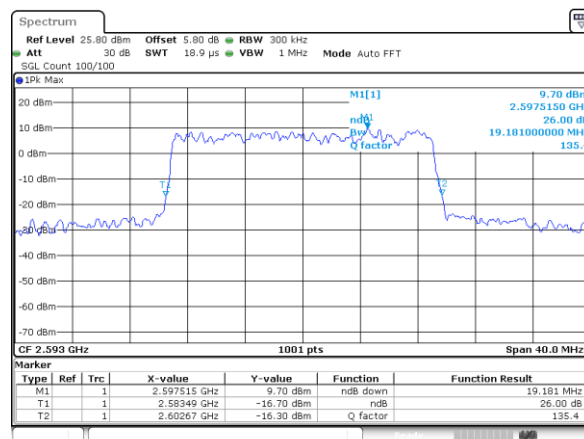
Date: 28.DEC.2021 06:27:57

Middle Channel / 20MHz / 16QAM



Date: 28.DEC.2021 06:28:22

Middle Channel / 20MHz / 64QAM

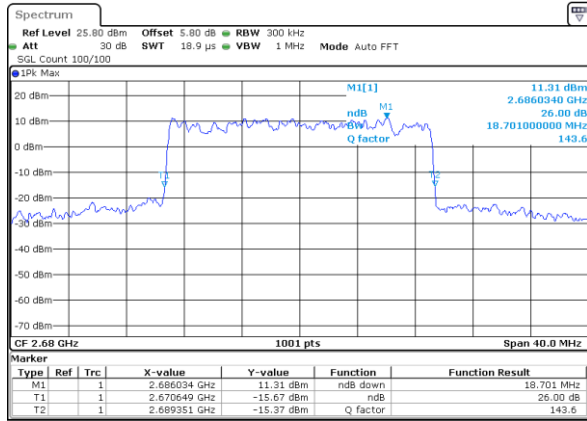


Date: 28.DEC.2021 06:28:47



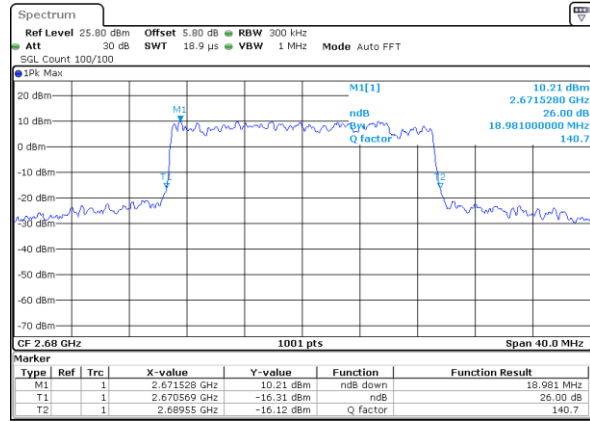
LTE Band 41

Highest Channel / 20MHz / QPSK



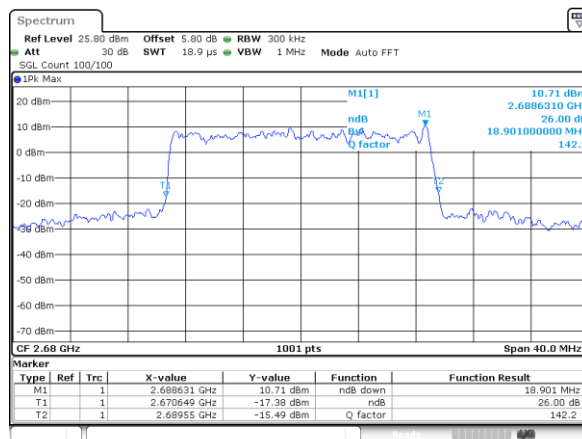
Date: 28.DEC.2021 06:30:31

Highest Channel / 20MHz / 16QAM



Date: 28.DEC.2021 06:30:58

Highest Channel / 20MHz / 64QAM



Date: 28.DEC.2021 06:31:23

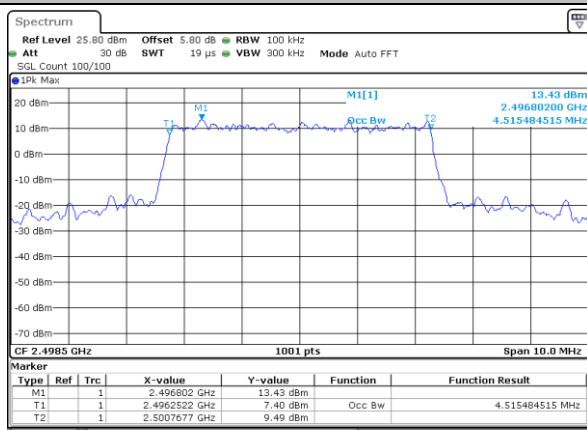


Occupied Bandwidth

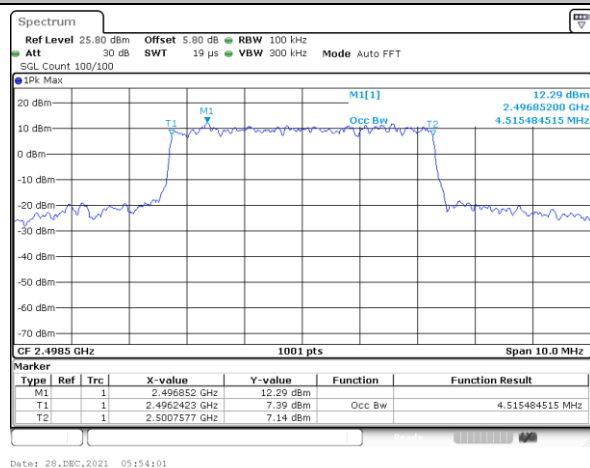
Mode	LTE Band 41 : 99%OBW(MHz)		
BW	5MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	4.52	4.52	4.50
Middle CH	4.48	4.50	4.50
Highest CH	4.51	4.53	4.50

LTE Band 41

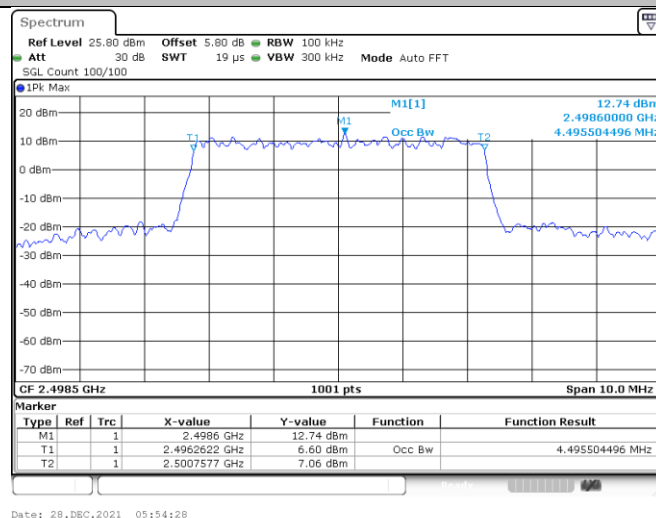
Lowest Channel / 5MHz / QPSK



Lowest Channel / 5MHz / 16QAM



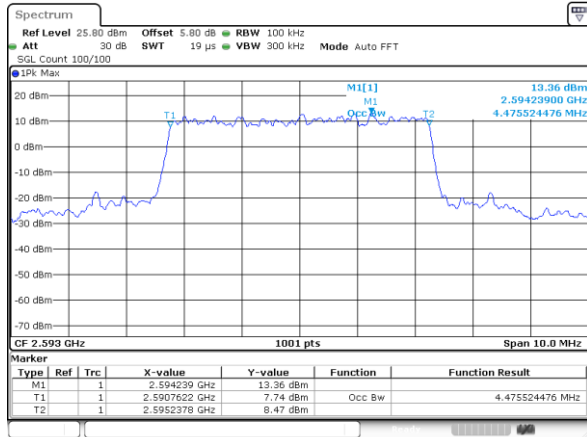
Lowest Channel / 5MHz / 64QAM



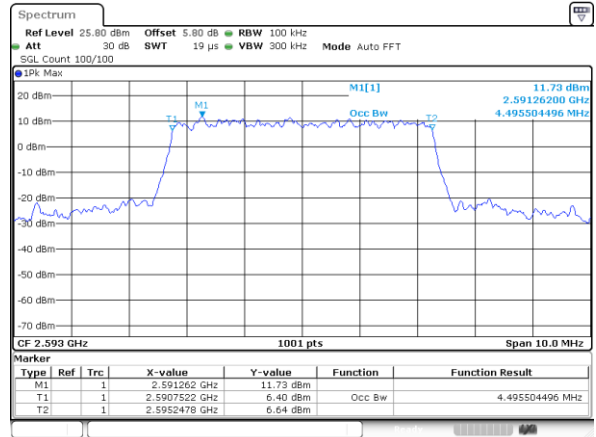


LTE Band 41

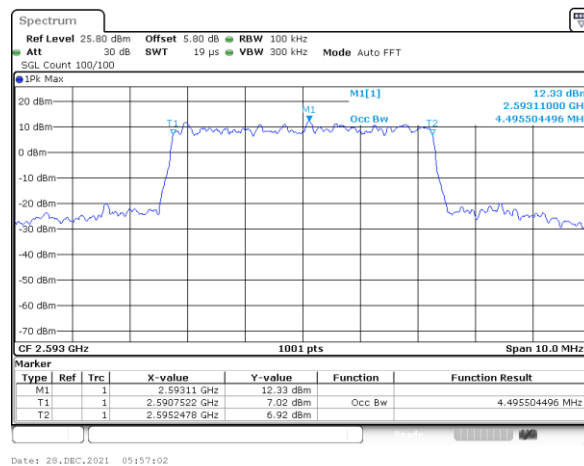
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



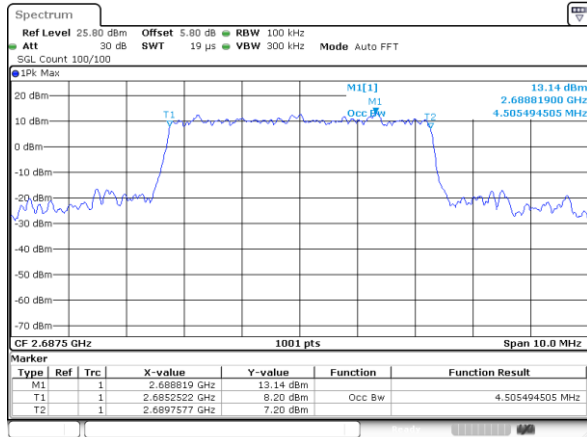
Middle Channel / 5MHz / 64QAM



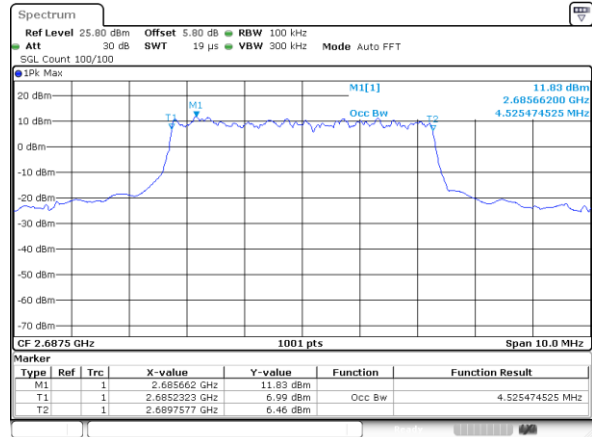


LTE Band 41

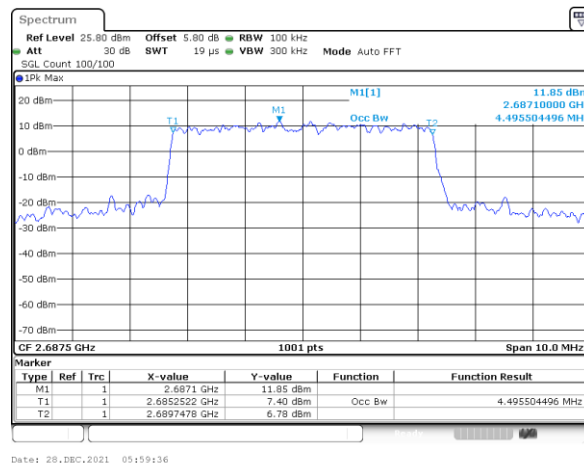
Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

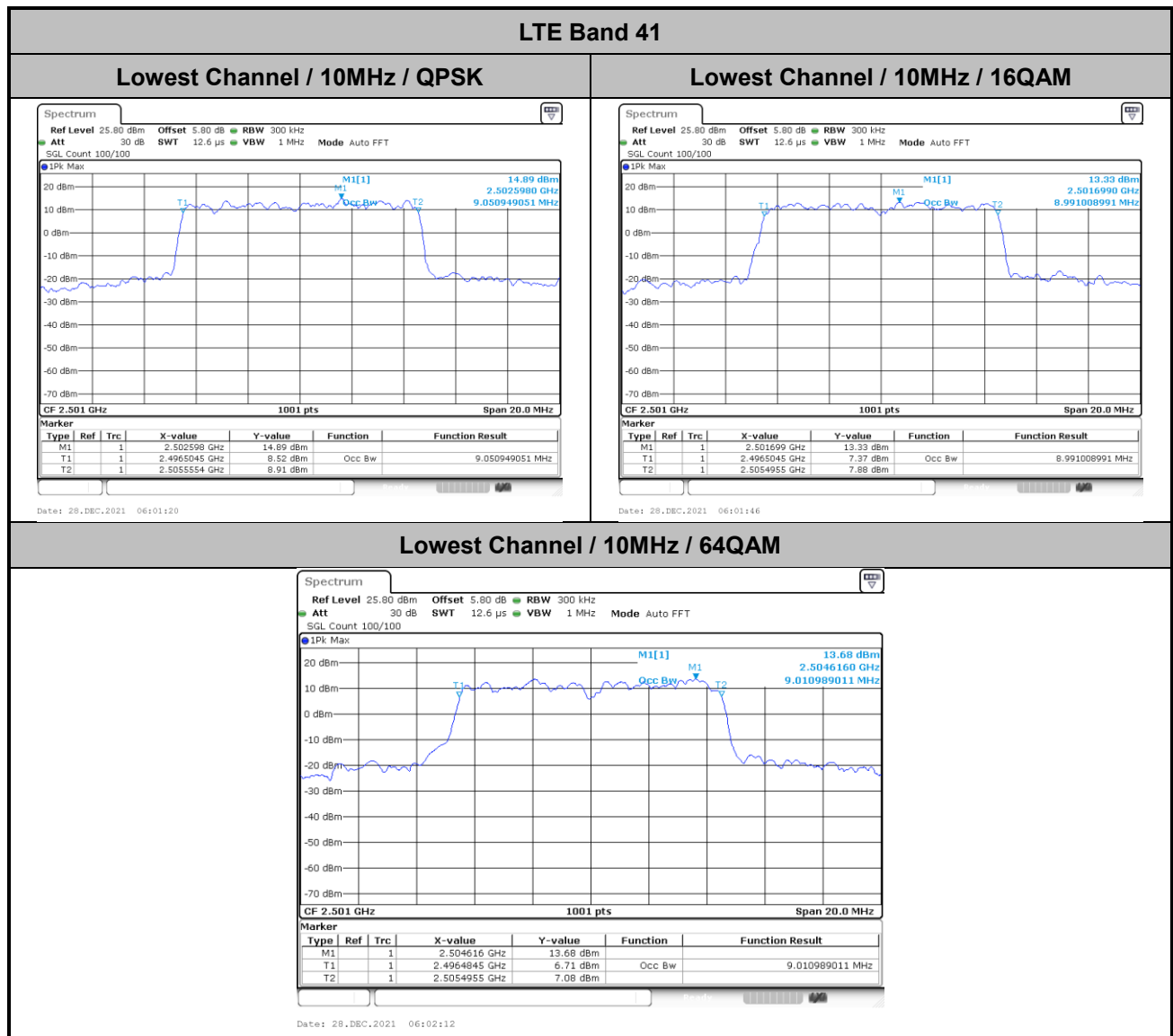


Highest Channel / 5MHz / 64QAM





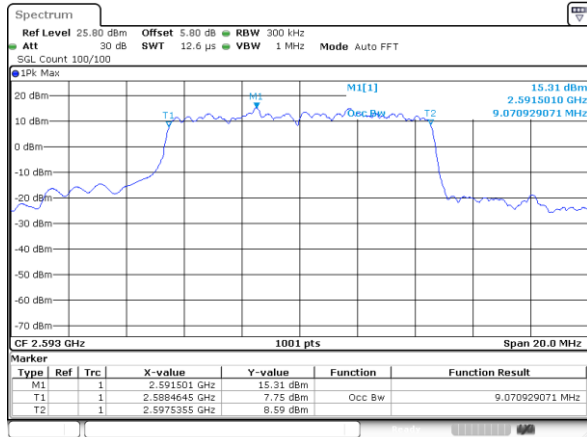
Mode	LTE Band 41 : 99%OBW(MHz)		
BW	10MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	9.05	8.99	9.01
Middle CH	9.07	9.01	9.05
Highest CH	9.09	8.99	8.99



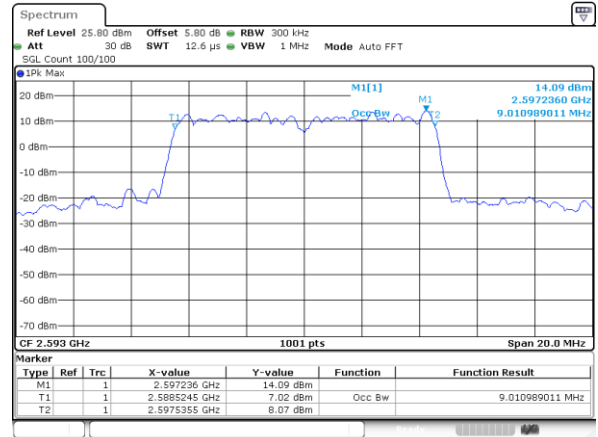


LTE Band 41

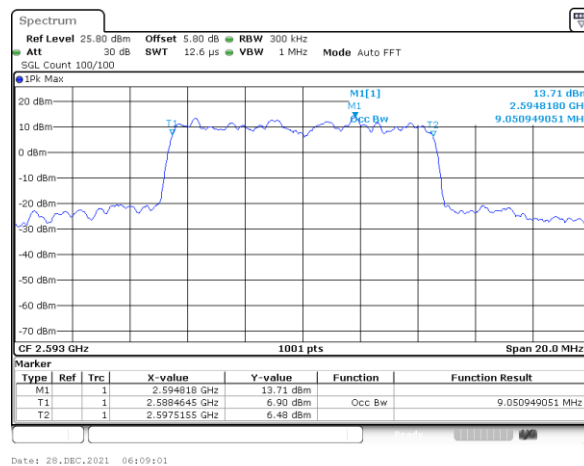
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



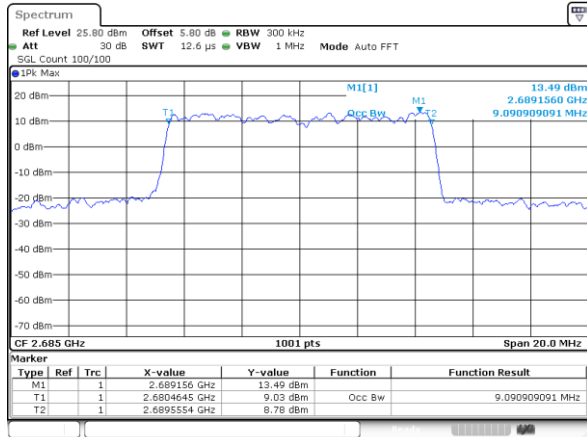
Middle Channel / 10MHz / 64QAM



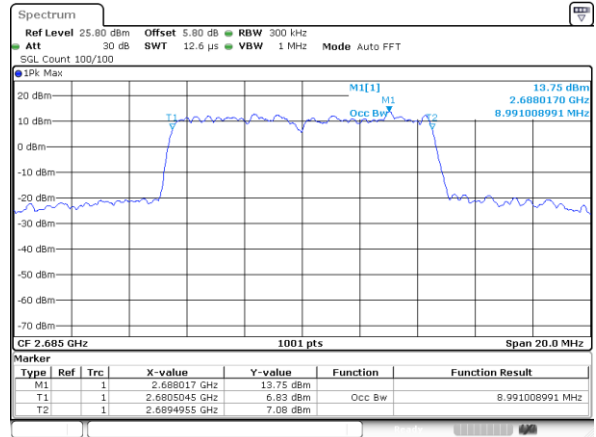


LTE Band 41

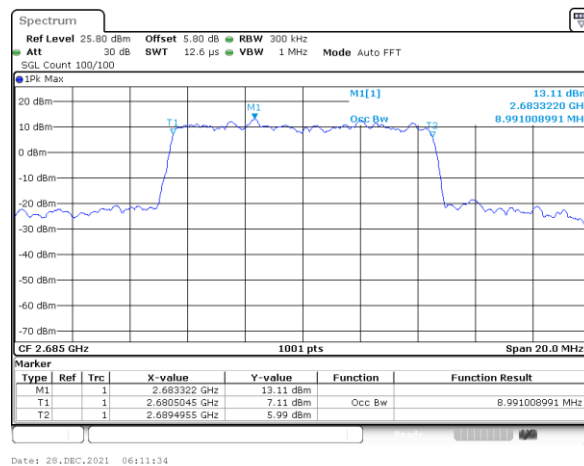
Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

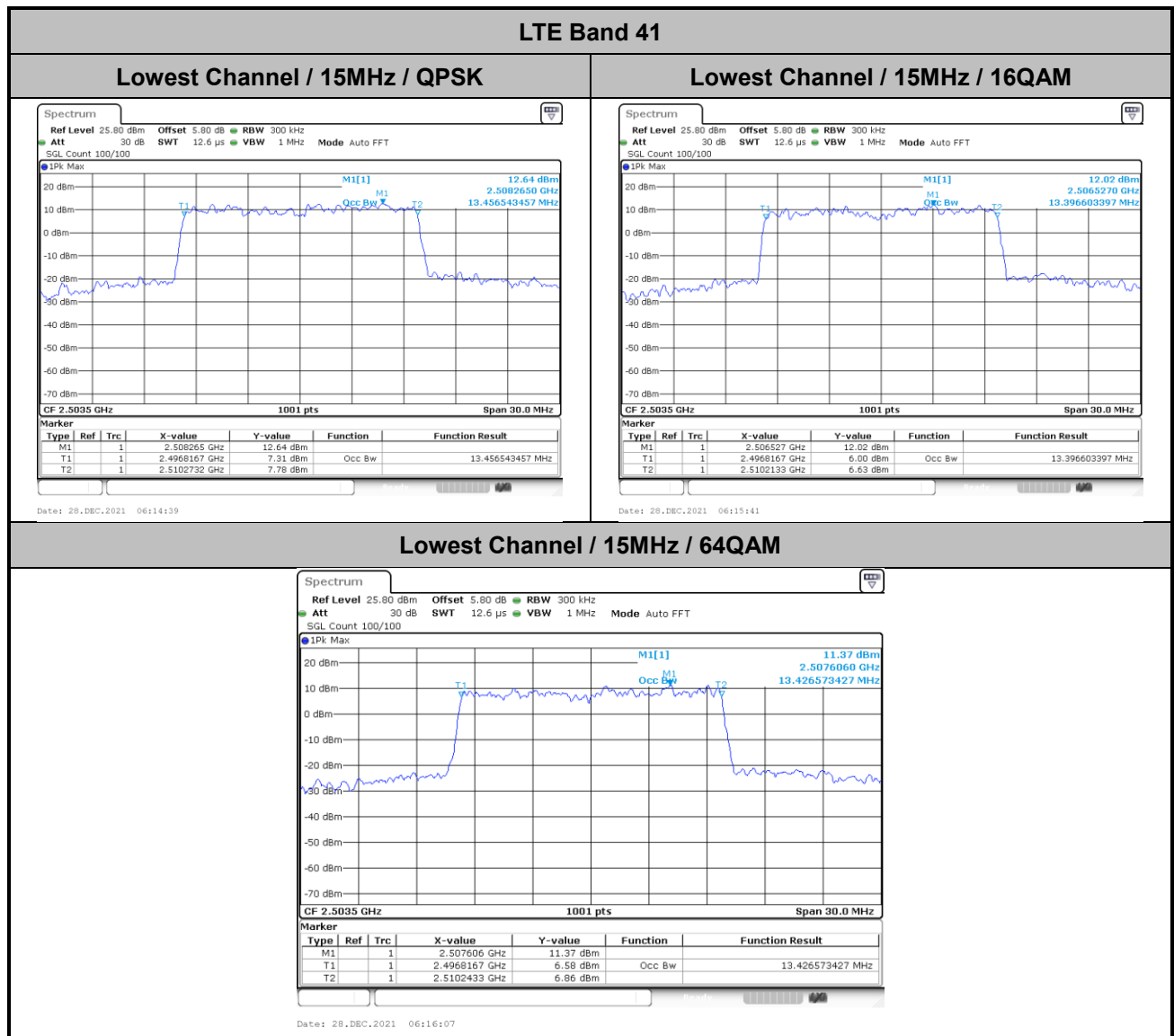


Highest Channel / 10MHz / 64QAM





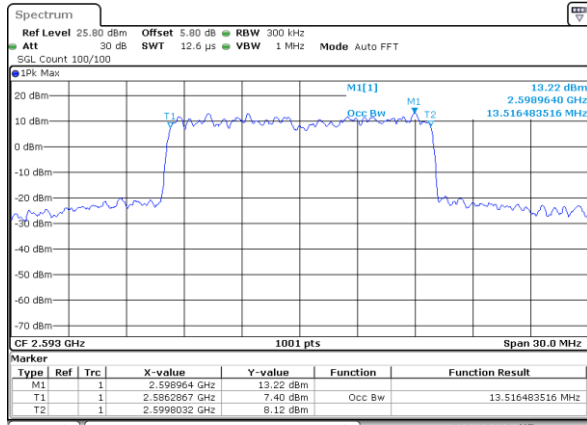
Mode	LTE Band 41 : 99%OBW(MHz)		
BW	15MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	13.46	13.40	13.43
Middle CH	13.52	13.49	13.49
Highest CH	13.52	13.46	13.52





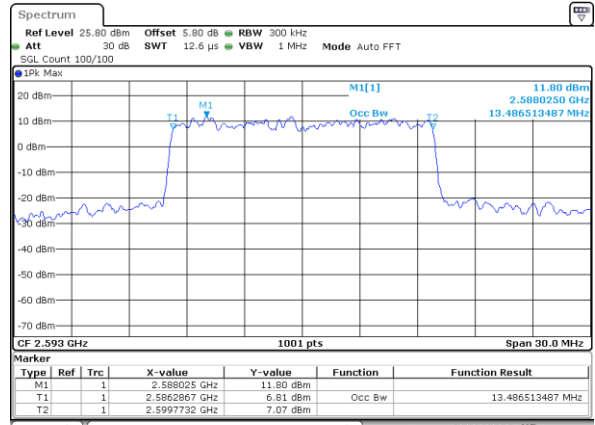
LTE Band 41

Middle Channel / 15MHz / QPSK



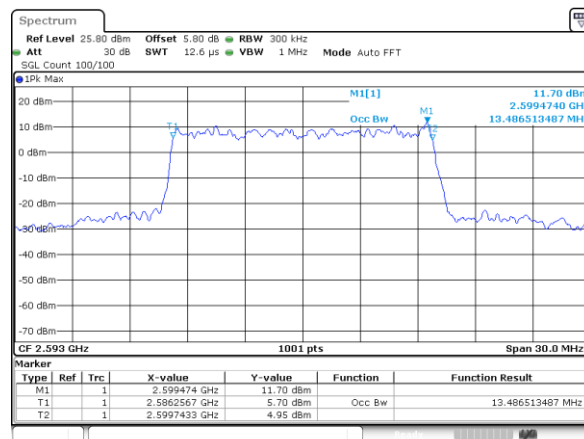
Date: 28.DEC.2021 06:17:50

Middle Channel / 15MHz / 16QAM



Date: 28.DEC.2021 06:18:16

Middle Channel / 15MHz / 64QAM

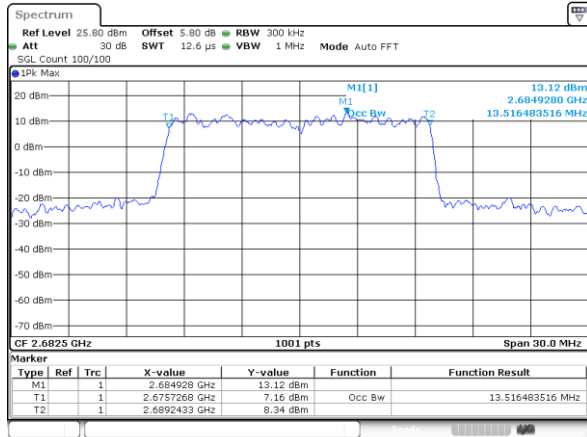


Date: 28.DEC.2021 06:18:41

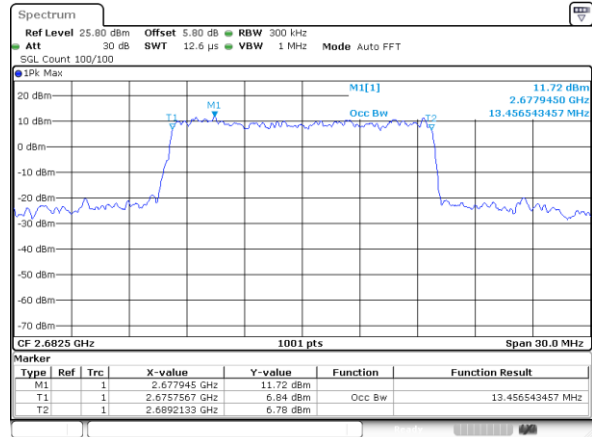


LTE Band 41

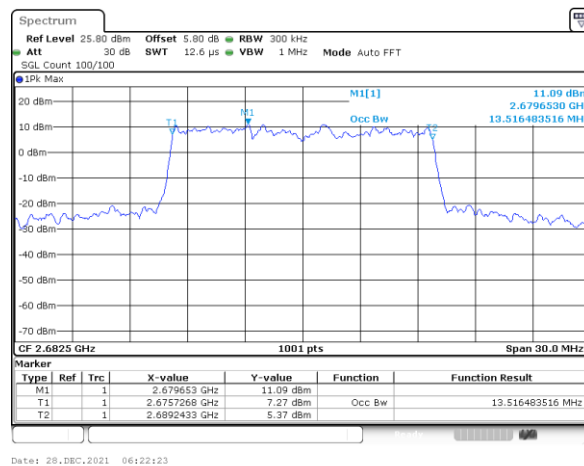
Highest Channel / 15MHz / QPSK



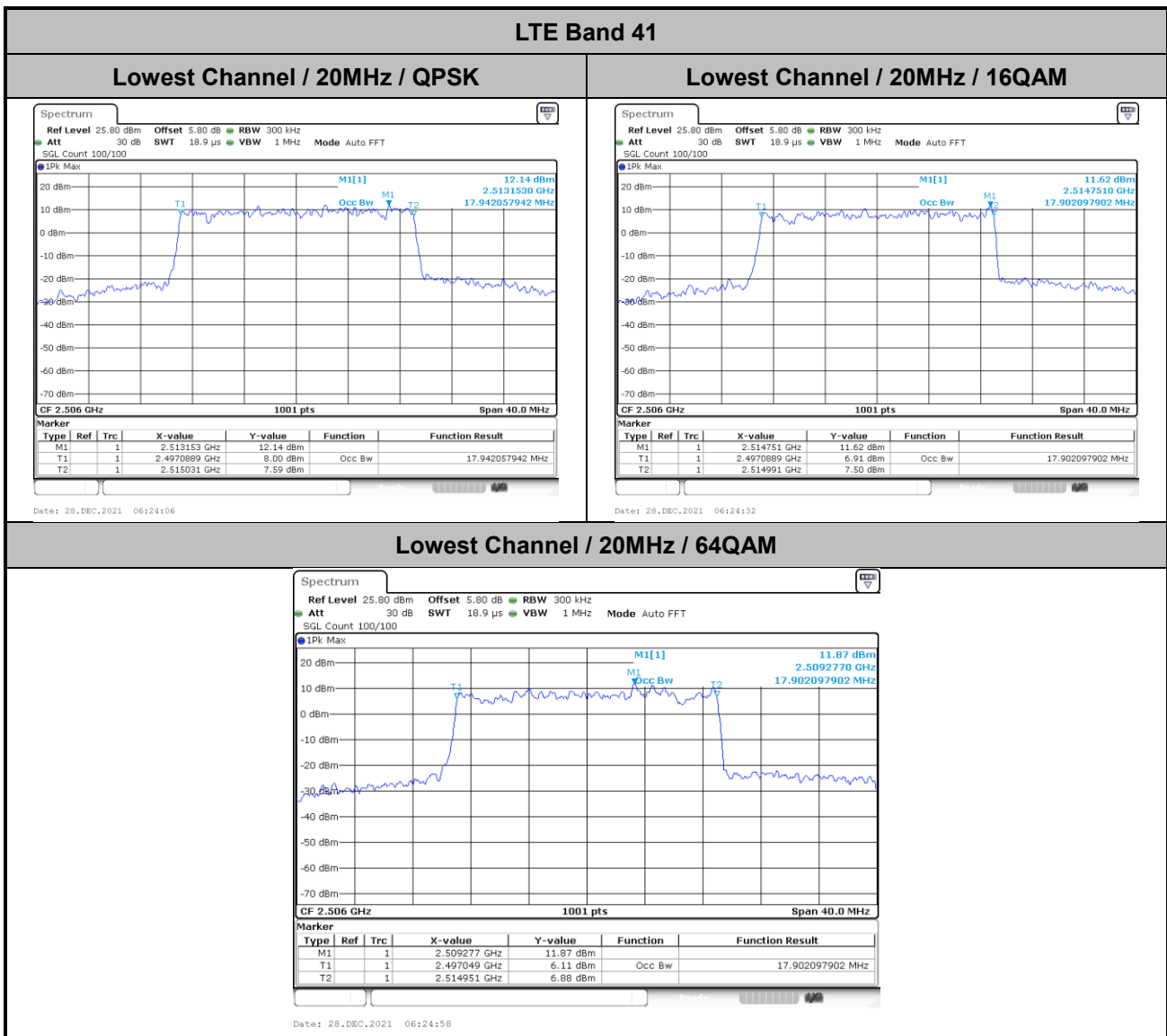
Highest Channel / 15MHz / 16QAM



Highest Channel / 15MHz / 64QAM



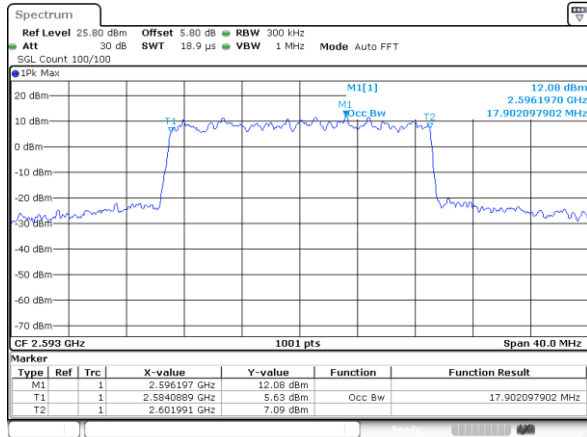
Mode	LTE Band 41 : 99%OBW(MHz)		
BW	20MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	17.94	17.90	17.90
Middle CH	17.90	17.82	18.06
Highest CH	17.86	17.94	17.94



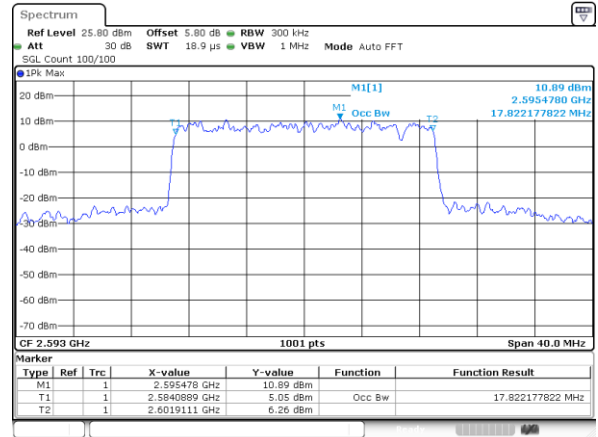


LTE Band 41

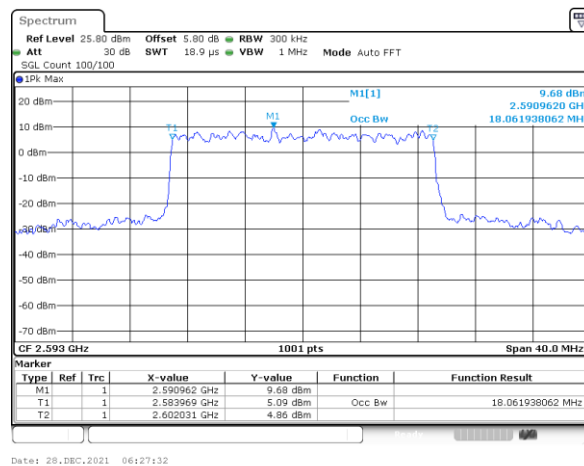
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

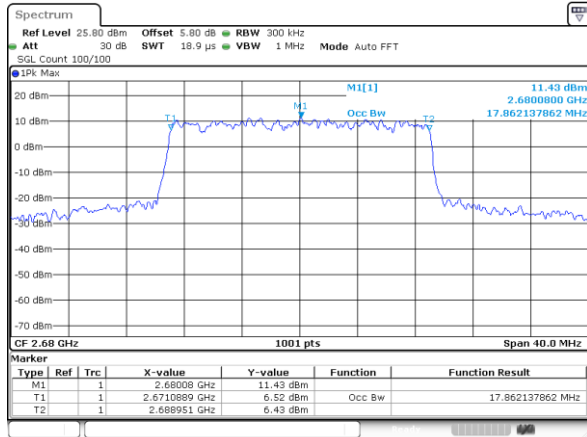


Middle Channel / 20MHz / 64QAM

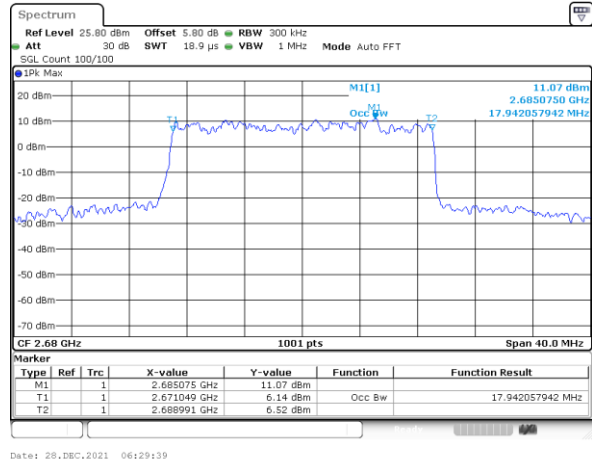


LTE Band 41

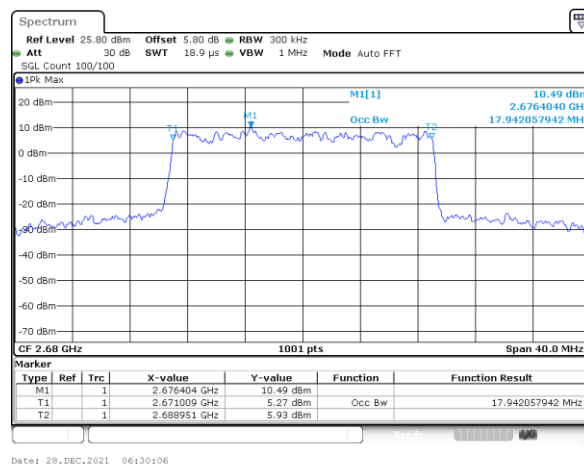
Highest Channel / 20MHz / QPSK

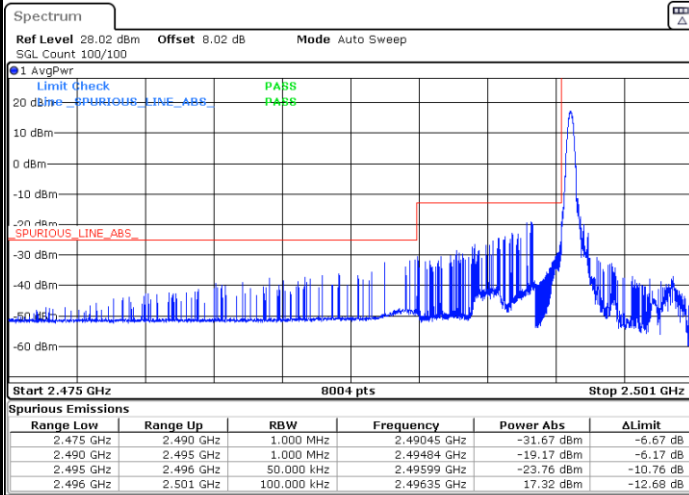
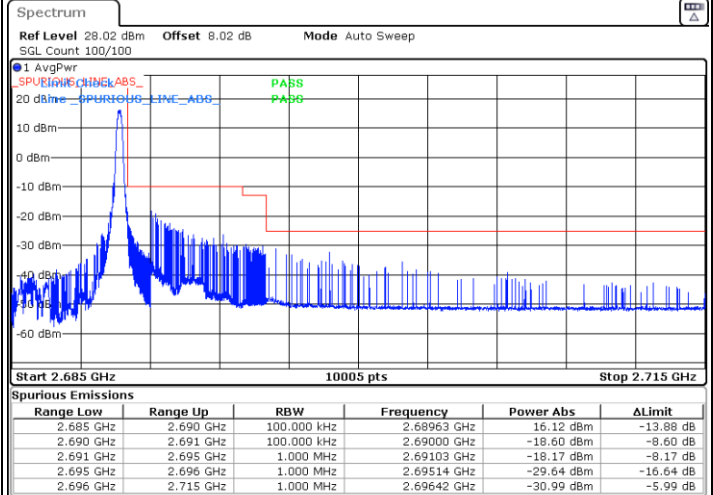
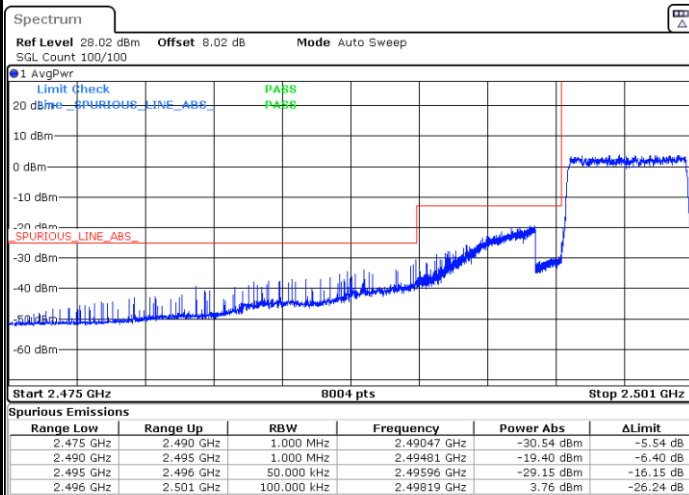


Highest Channel / 20MHz / 16QAM



Highest Channel / 20MHz / 64QAM



**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**