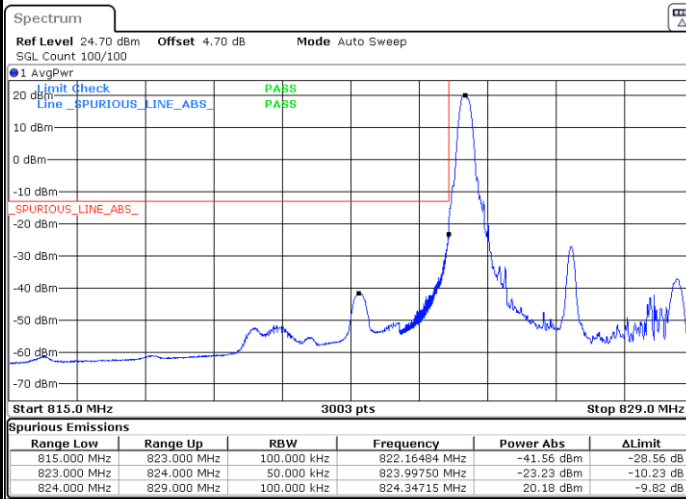


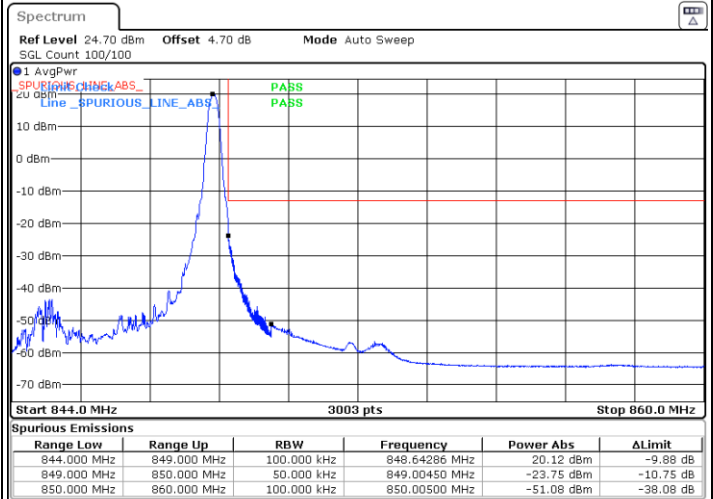


LTE Band 5 / 5MHz / 16QAM

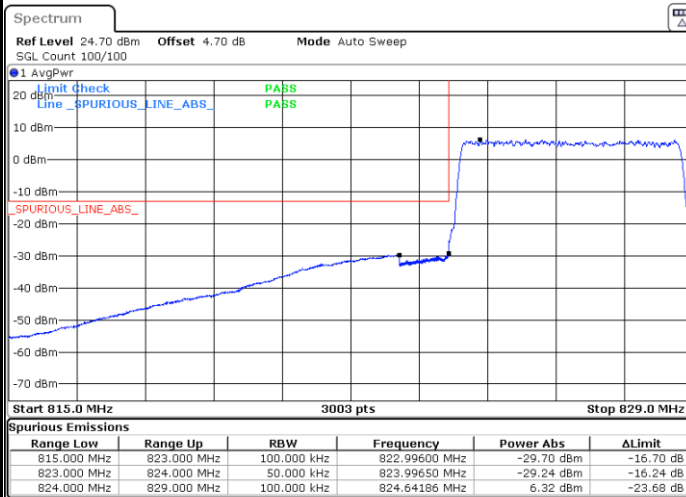
Lowest Band Edge / 1RB



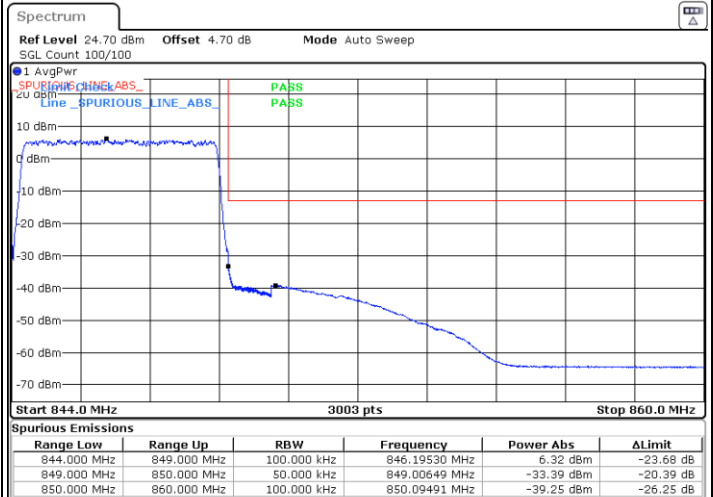
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



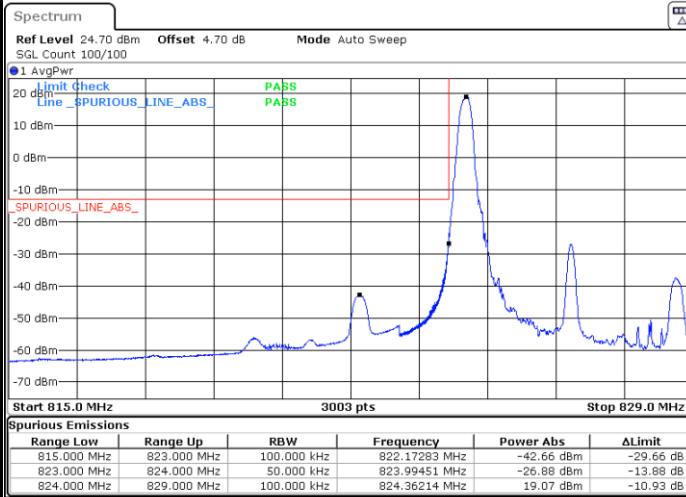
Highest Band Edge / Full RB



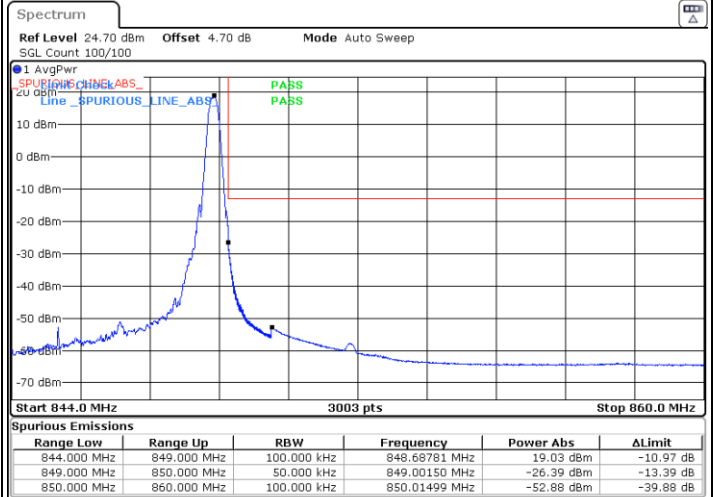


LTE Band 5 / 5MHz / 64QAM

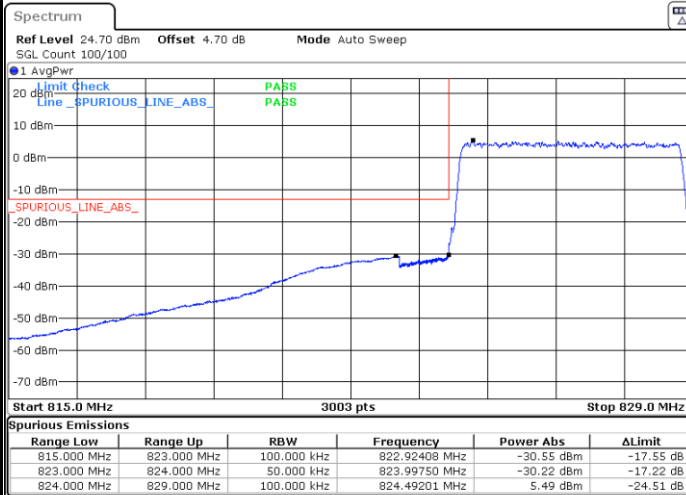
Lowest Band Edge / 1RB



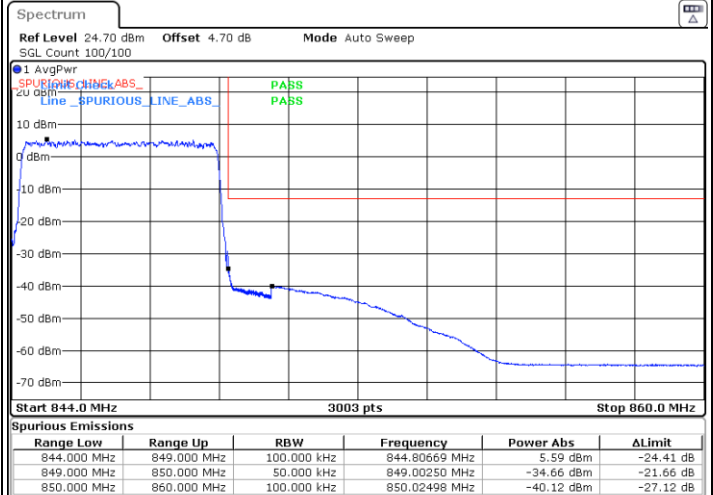
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



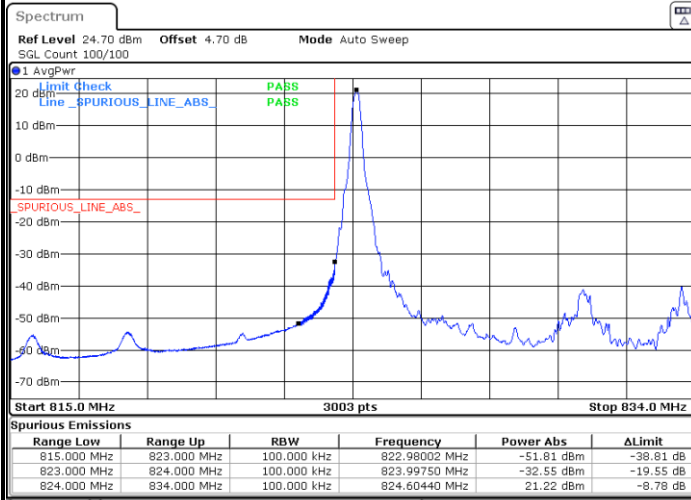
Highest Band Edge / Full RB



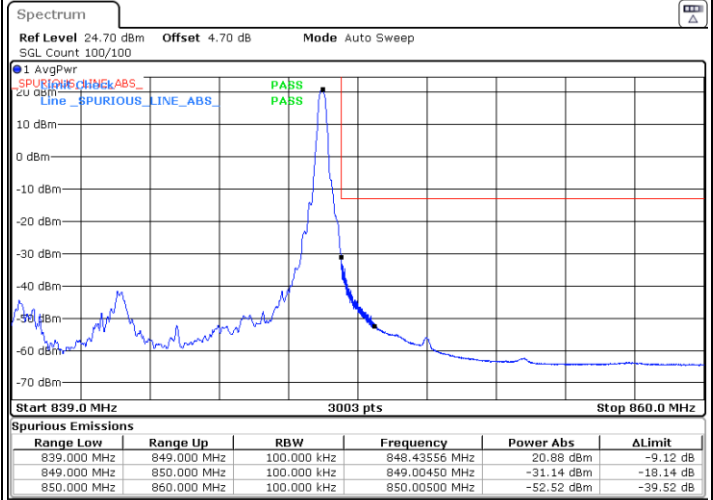


LTE Band 5 / 10MHz / QPSK

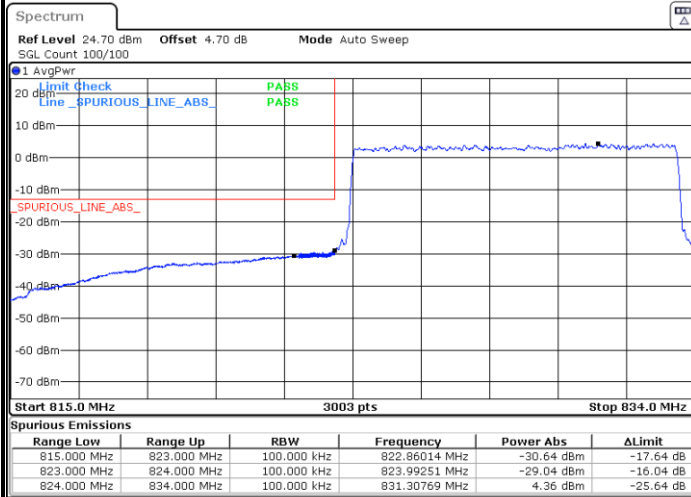
Lowest Band Edge / 1 RB



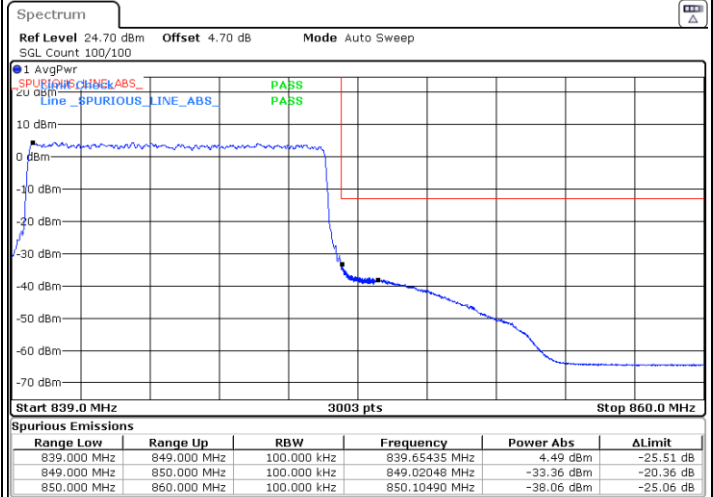
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



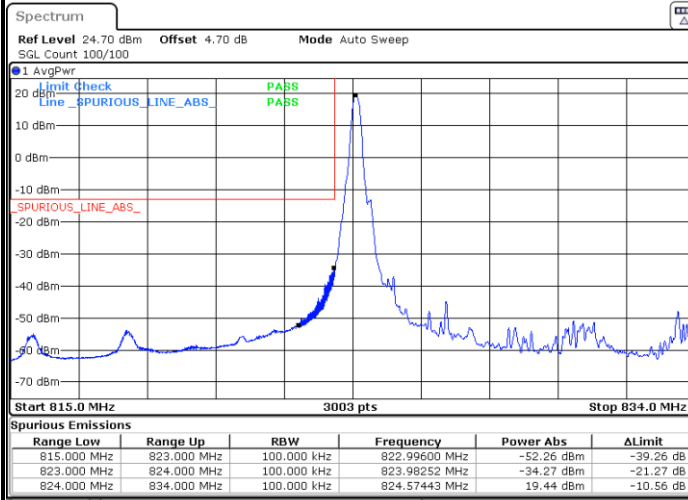
Highest Band Edge / Full RB



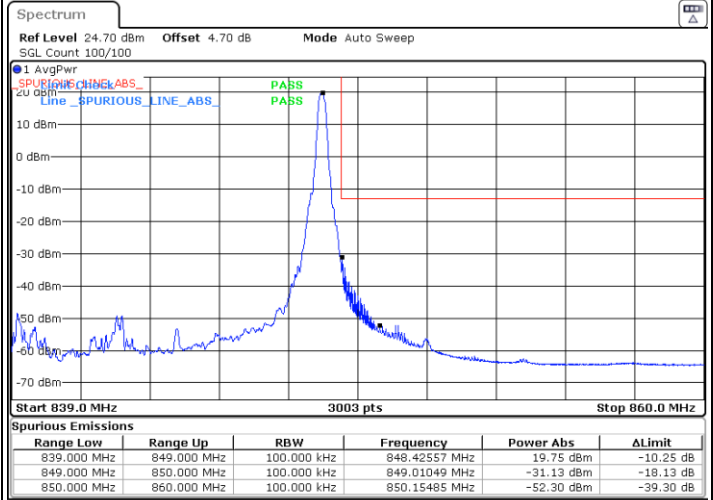


LTE Band 5 / 10MHz / 16QAM

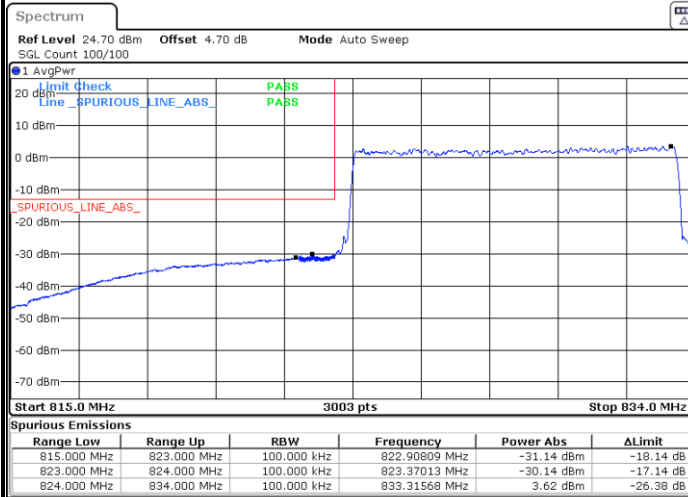
Lowest Band Edge / 1 RB



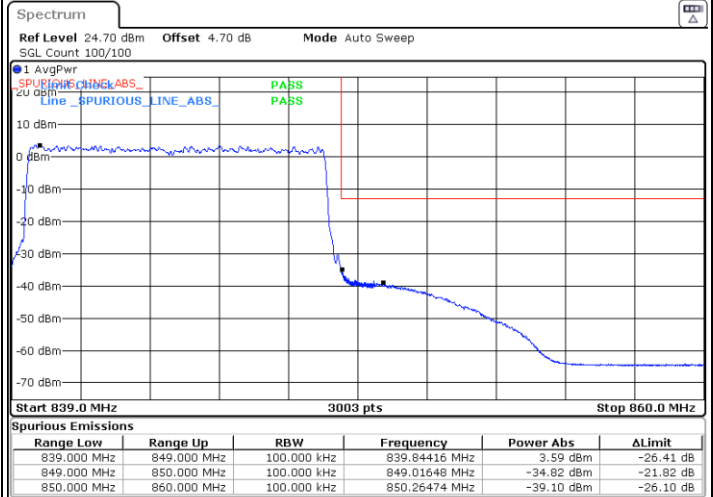
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



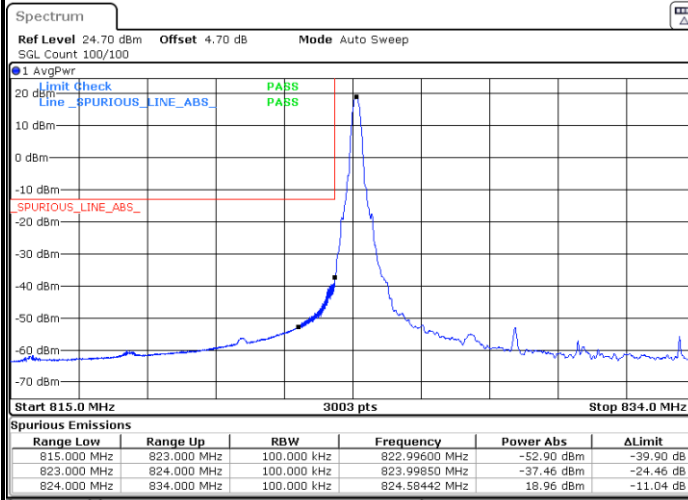
Highest Band Edge / Full RB



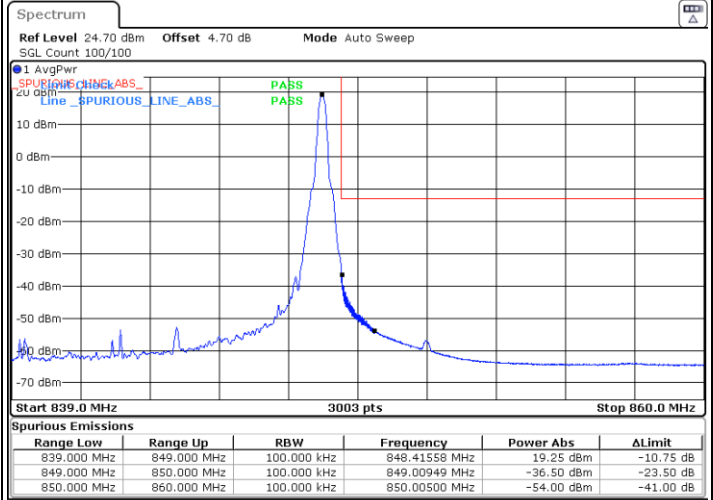


LTE Band 5 / 10MHz / 64QAM

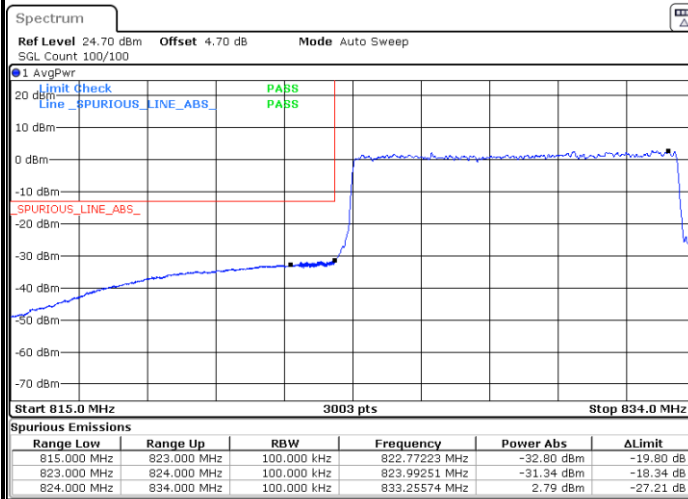
Lowest Band Edge / 1 RB



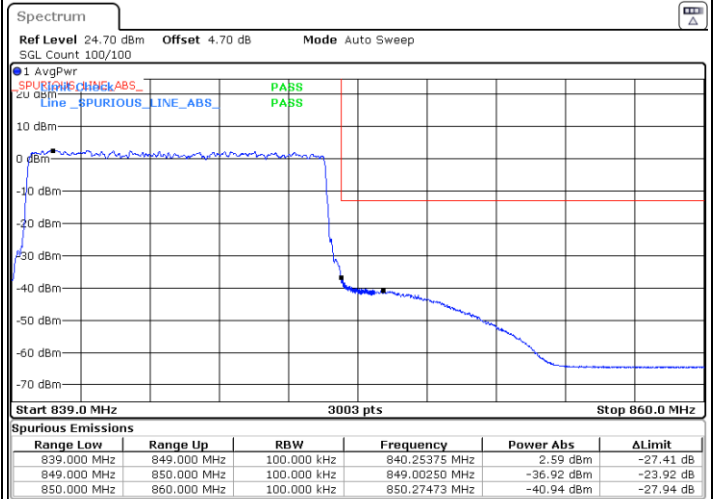
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

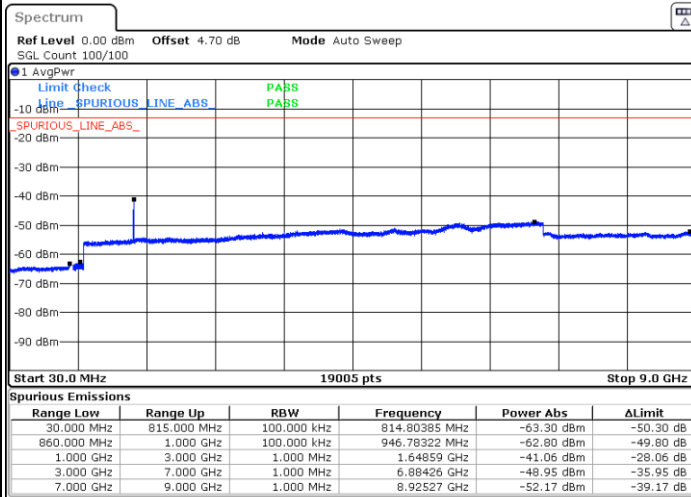




Conducted Spurious Emission

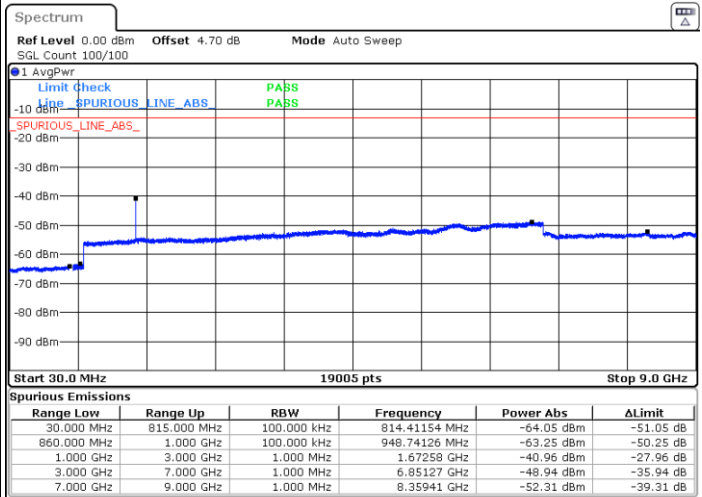
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



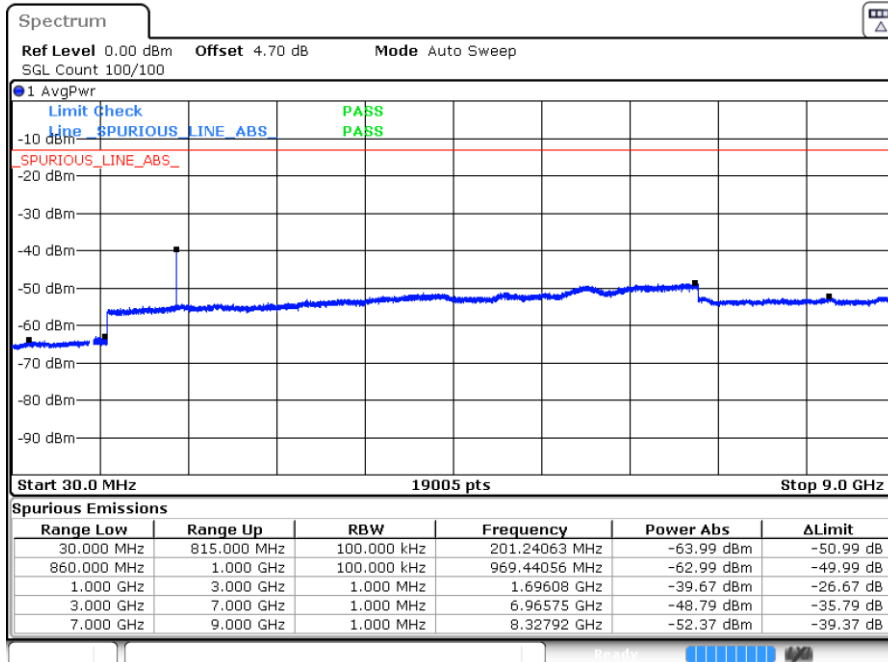
Date: 17.DEC.2021 13:47:55

Middle Channel / QPSK



Date: 17.DEC.2021 14:00:05

Highest Channel / QPSK

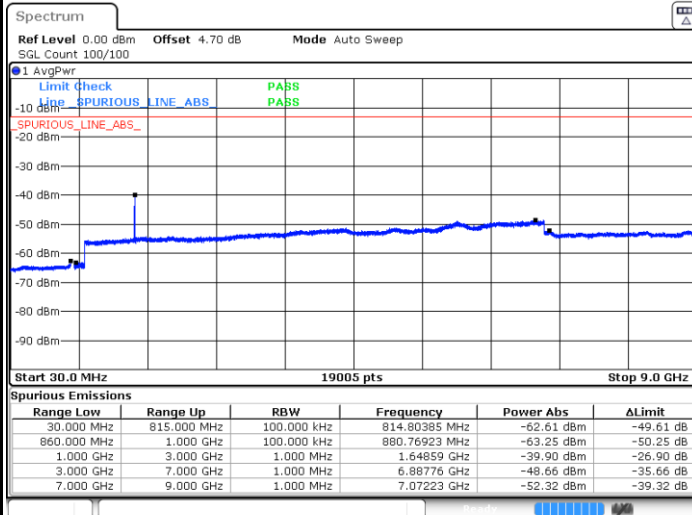


Date: 17.DEC.2021 14:01:00

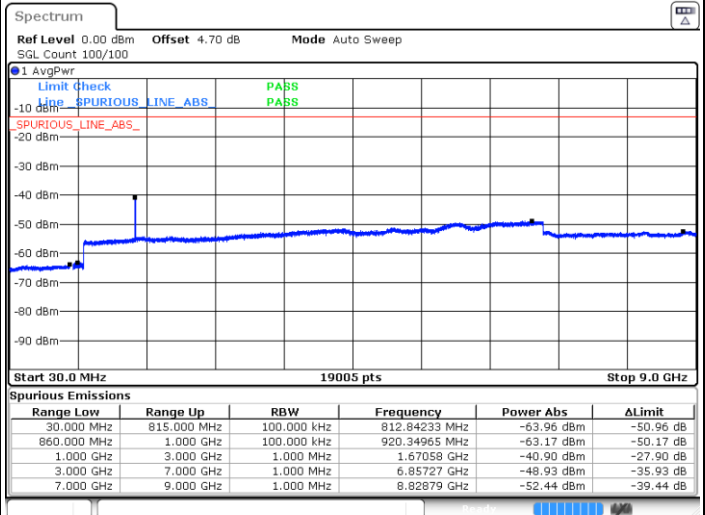


LTE Band 5 / 3MHz

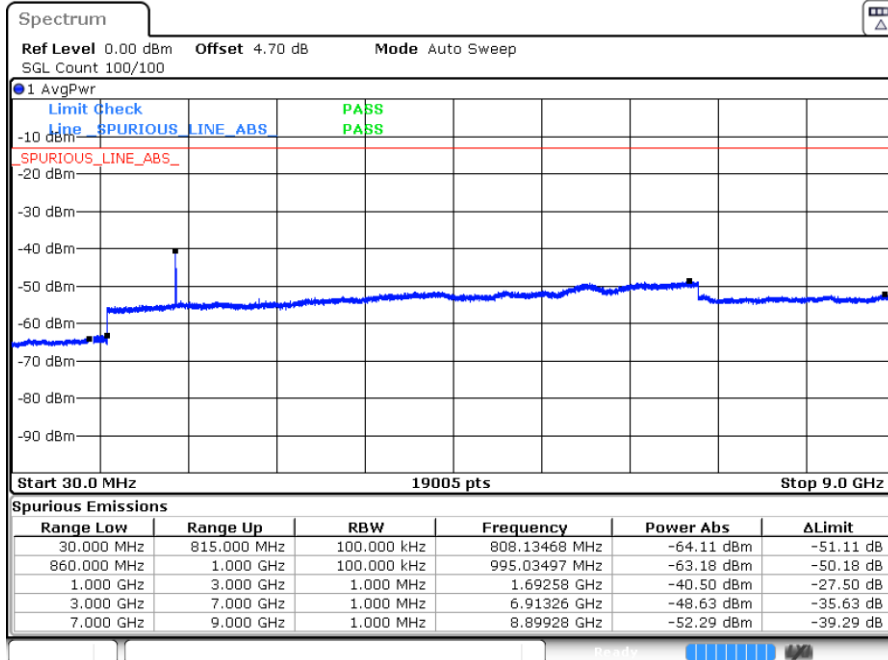
Lowest Channel / QPSK



Middle Channel / QPSK



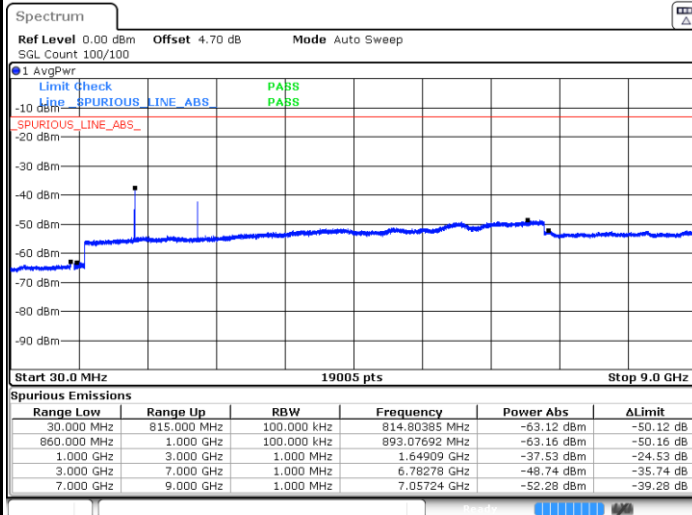
Highest Channel / QPSK



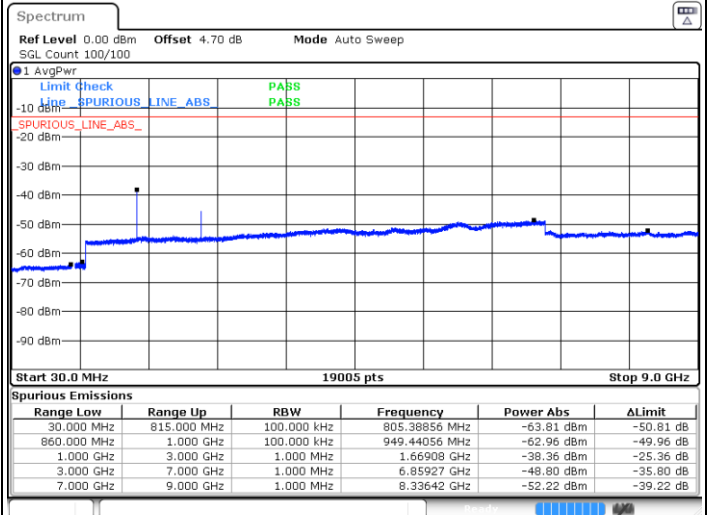


LTE Band 5 / 5MHz

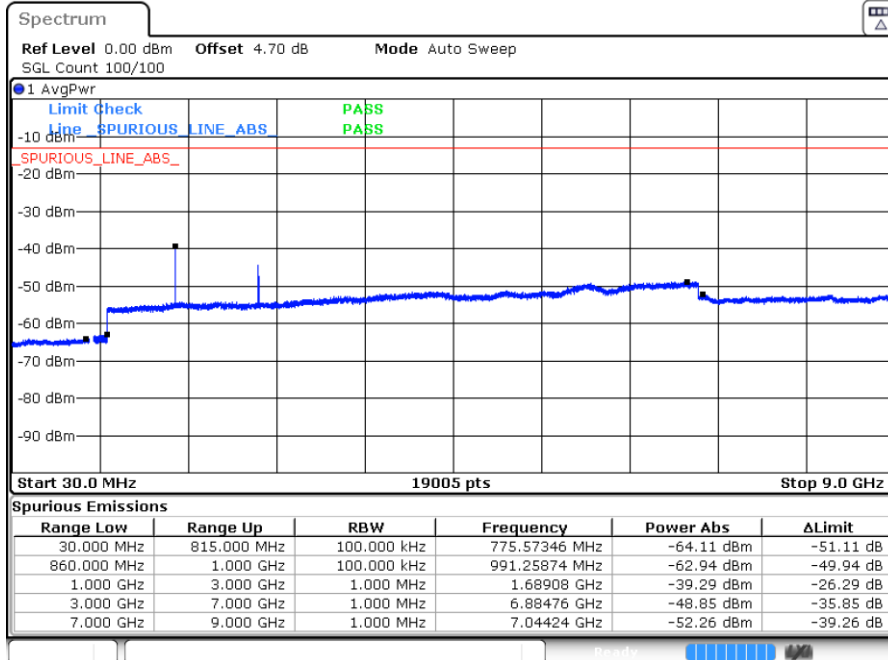
Lowest Channel / QPSK



Middle Channel / QPSK



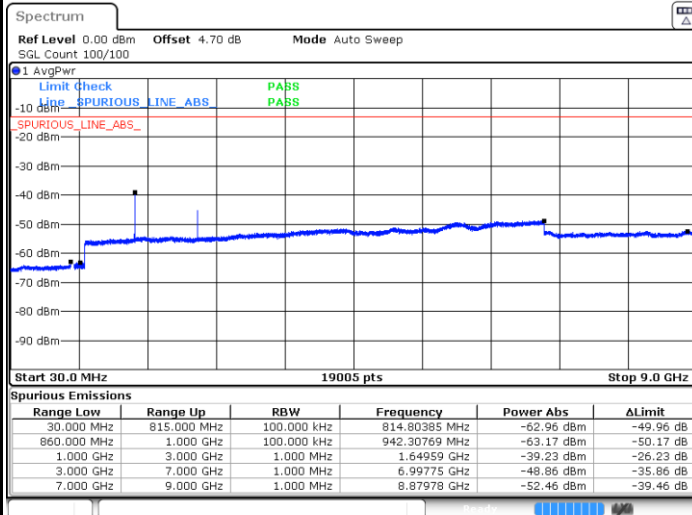
Highest Channel / QPSK





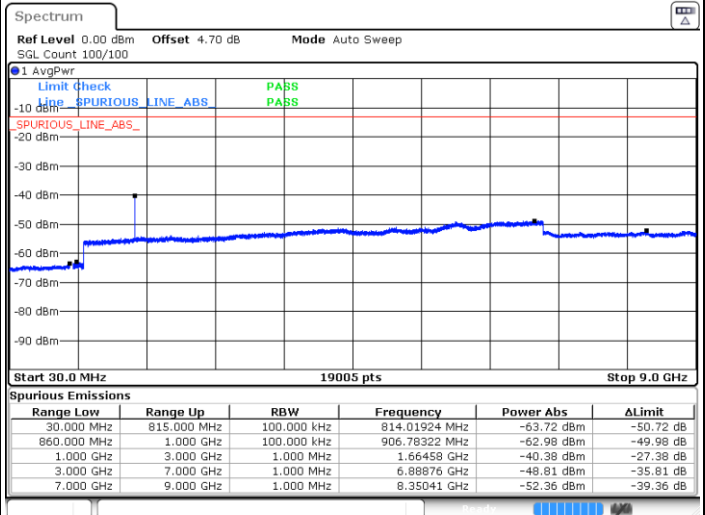
LTE Band 5 / 10MHz

Lowest Channel / QPSK



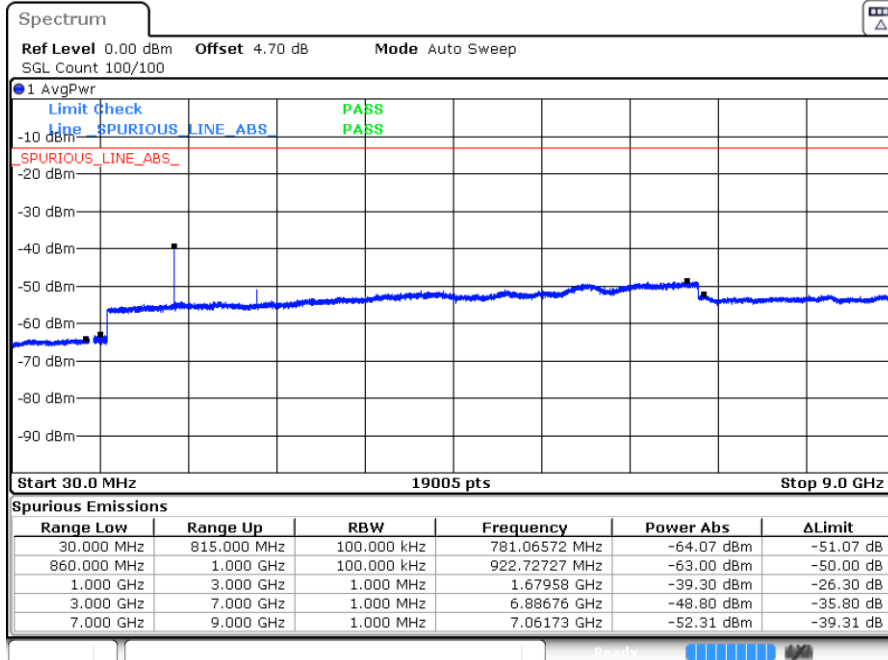
Date: 17.DEC.2021 15:04:01

Middle Channel / QPSK



Date: 17.DEC.2021 15:16:08

Highest Channel / QPSK



Date: 17.DEC.2021 15:17:02

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0061	
20	Battery End Point	0.0017	

Note:

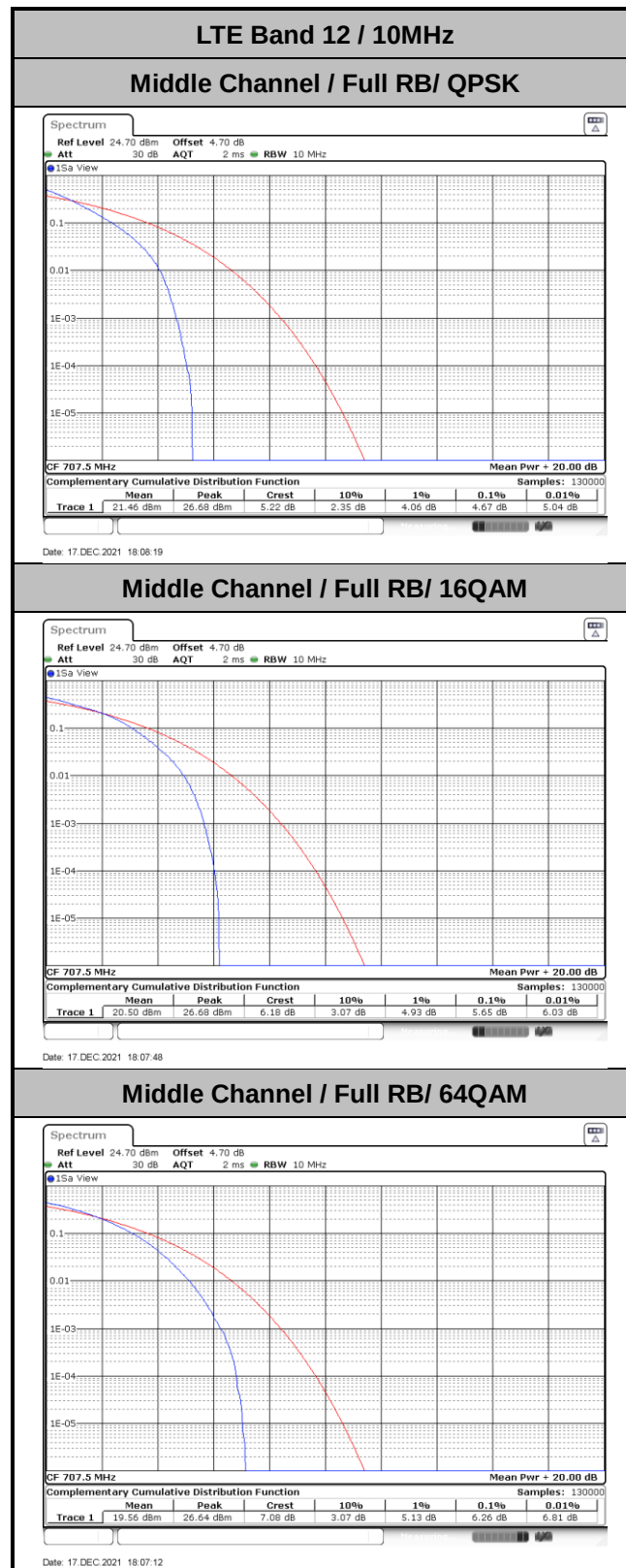
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.



LTE Band 12

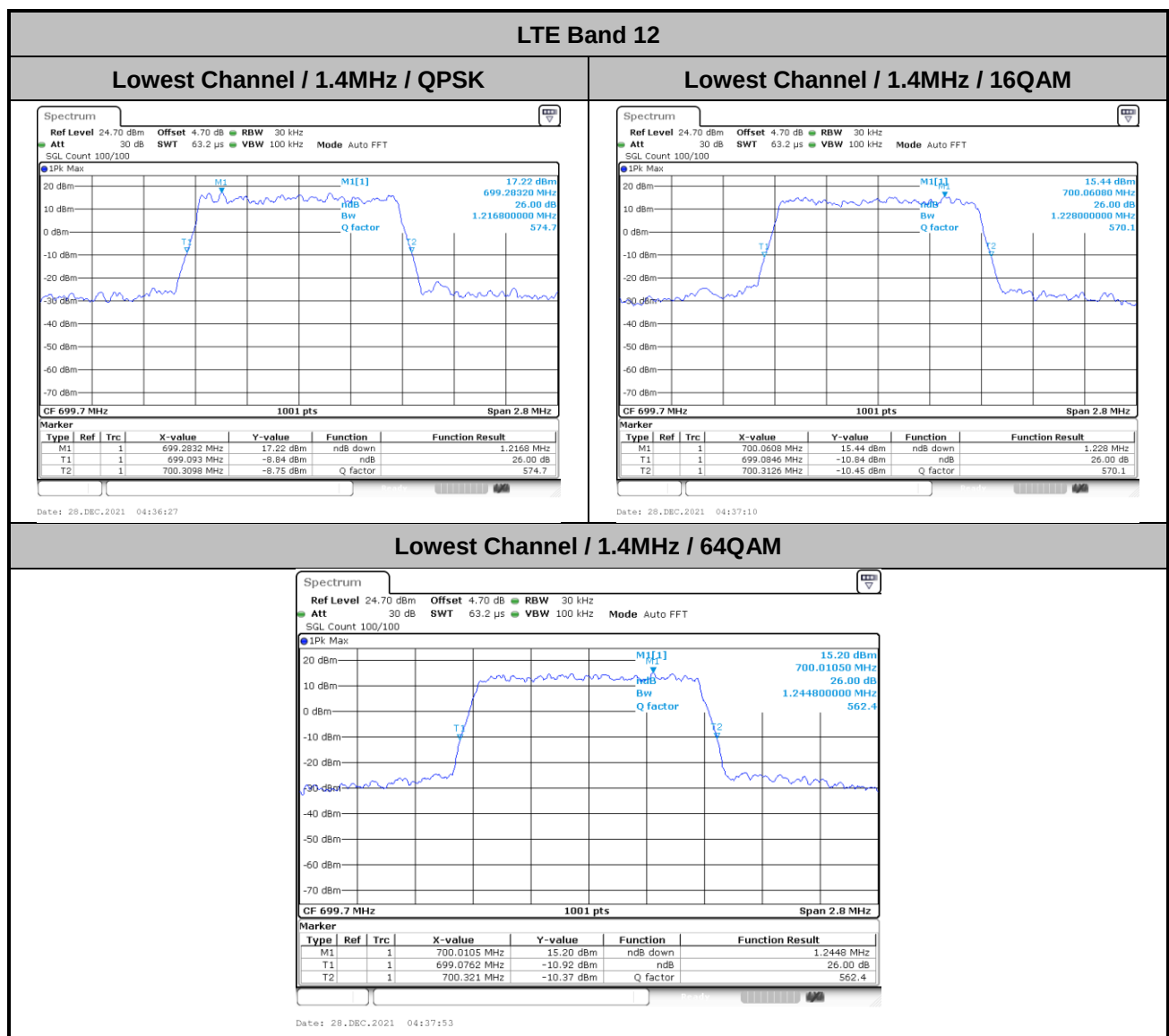
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.65	6.26	PASS



**26dB Bandwidth**

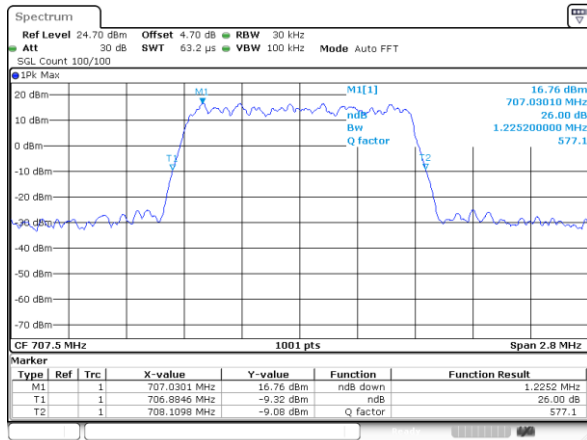
Mode	LTE Band 12 : 26dB BW(MHz)		
BW	1.4 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	1.22	1.23	1.24
Middle CH	1.23	1.23	1.22
Highest CH	1.24	1.23	1.22





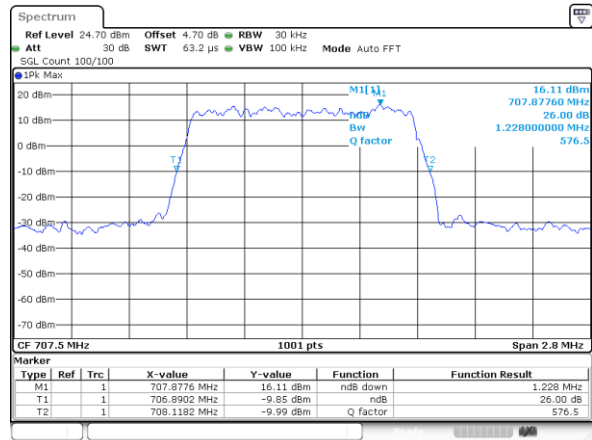
LTE Band 12

Middle Channel / 1.4MHz / QPSK



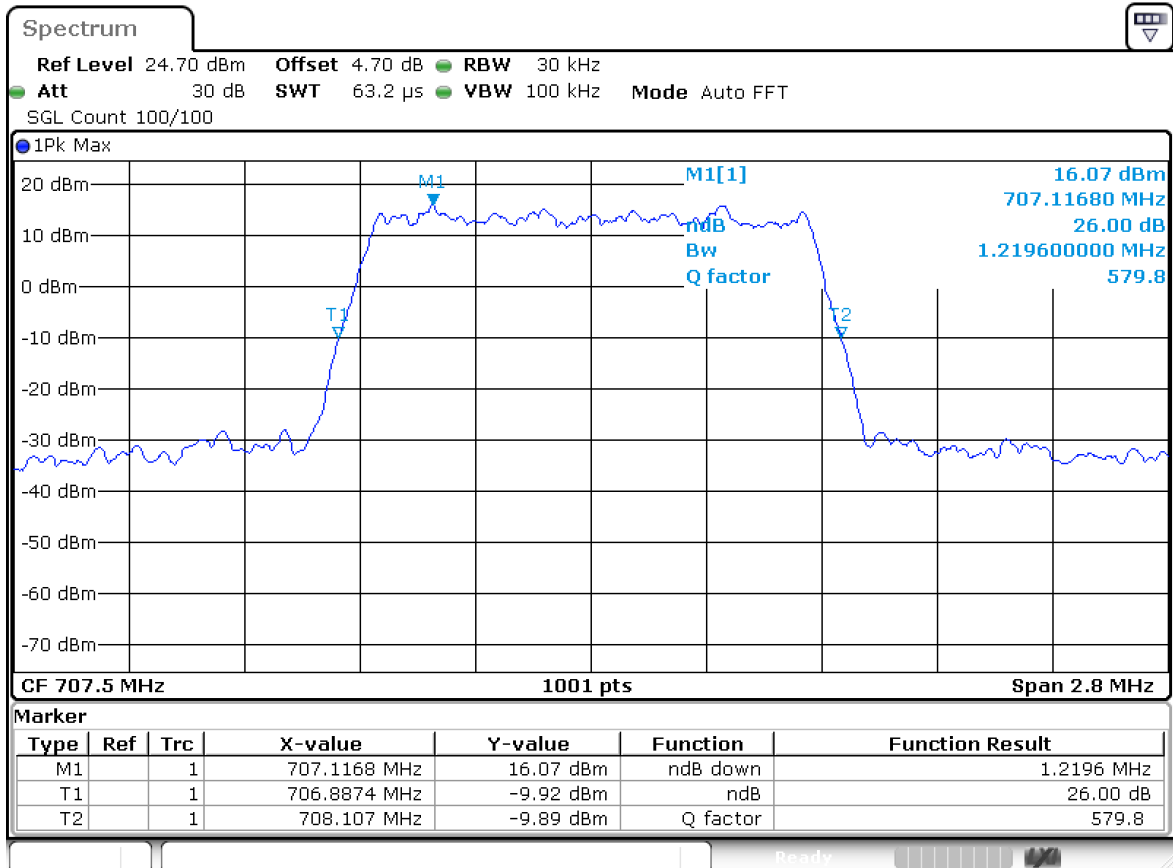
Date: 28.DEC.2021 04:38:35

Middle Channel / 1.4MHz / 16QAM



Date: 28.DEC.2021 04:39:17

Middle Channel / 1.4MHz / 64QAM

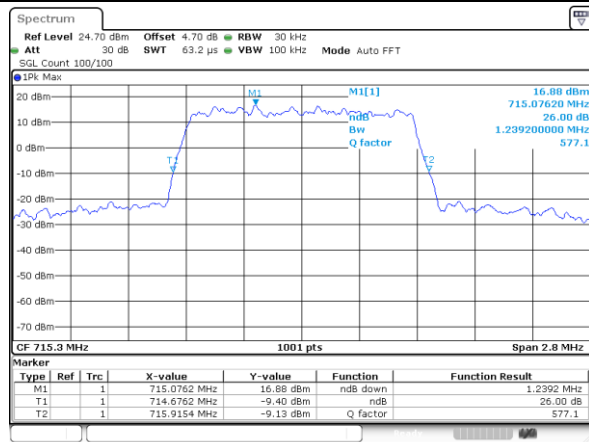


Date: 28.DEC.2021 04:39:59

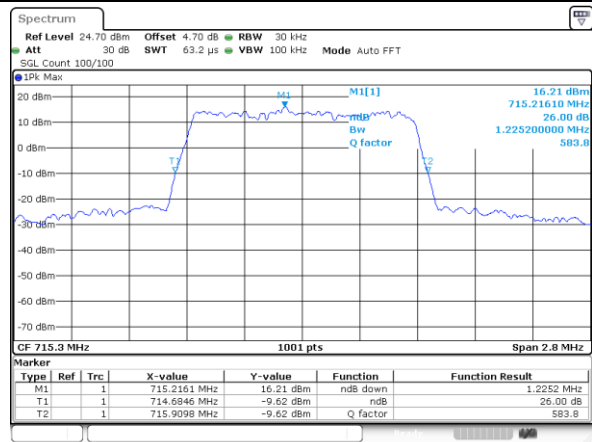


LTE Band 12

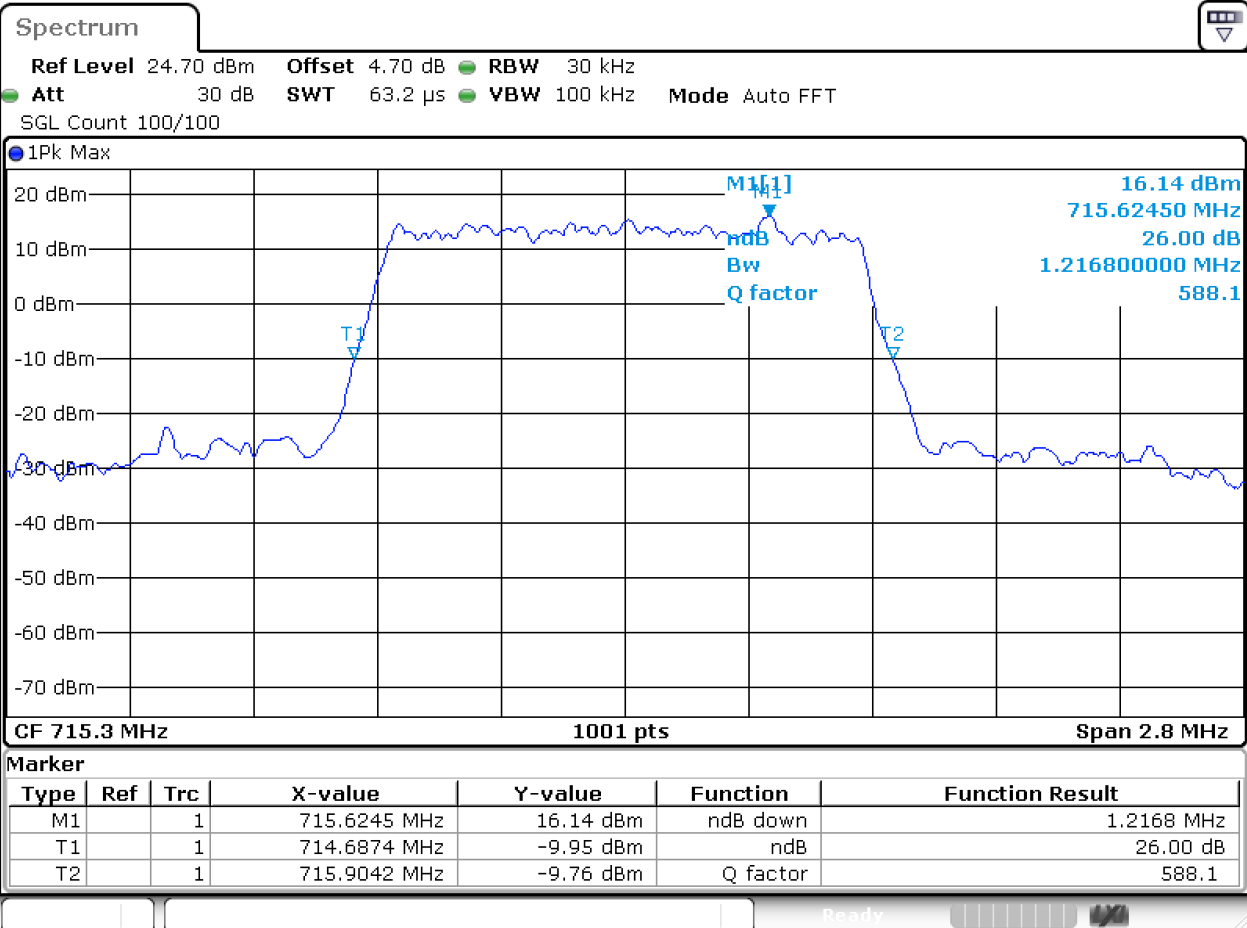
Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM



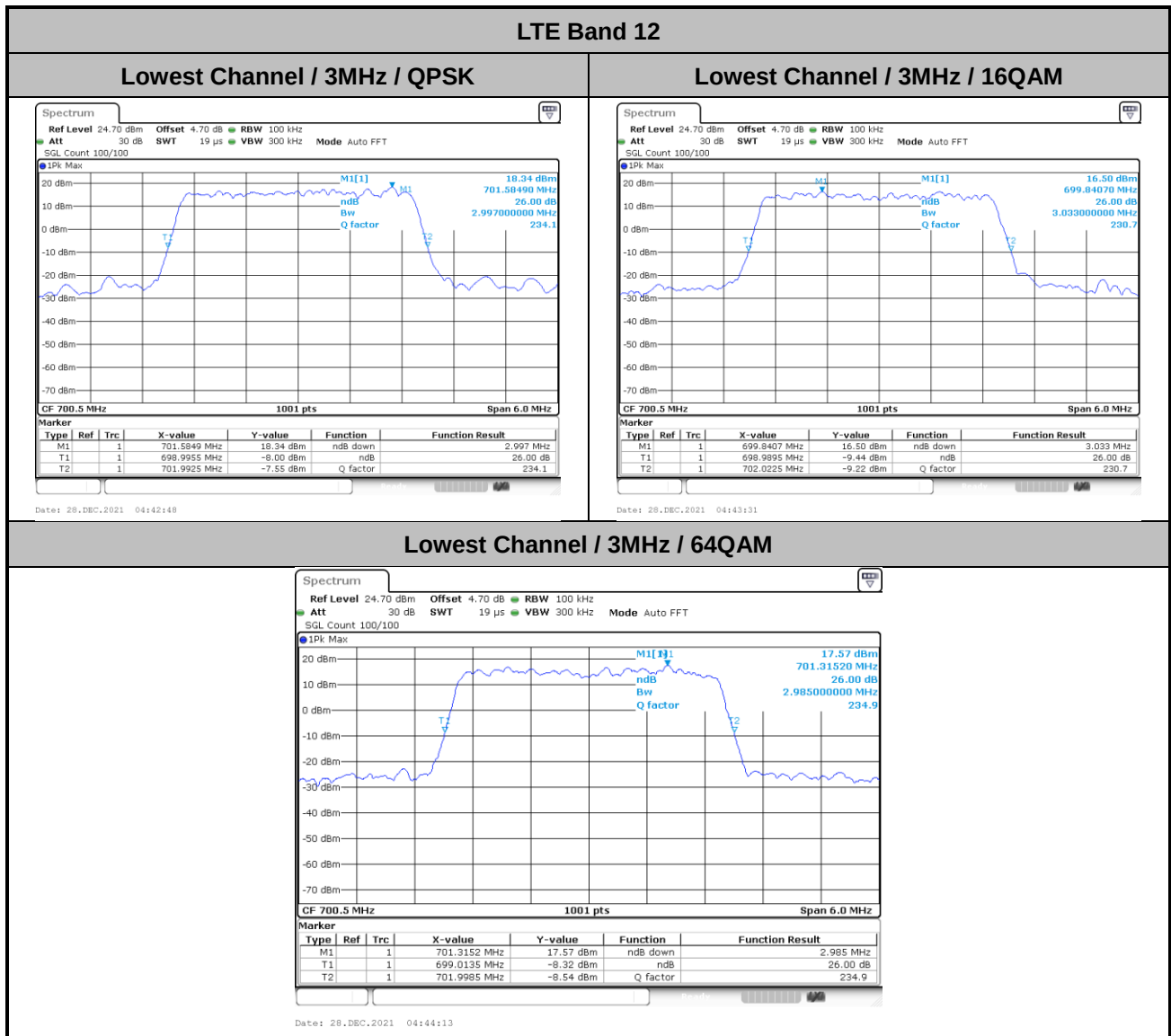
Highest Channel / 1.4MHz / 64QAM



Date: 28.DEC.2021 04:42:05



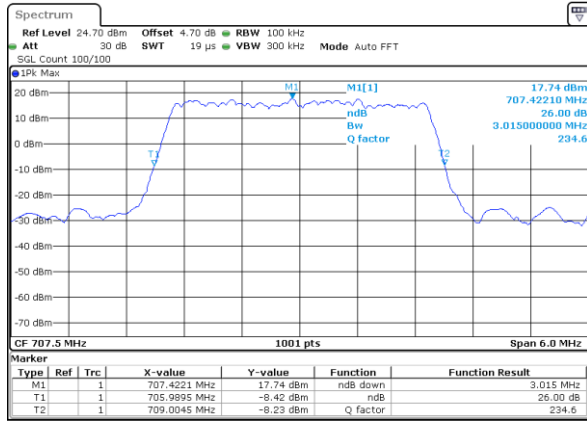
Mode	LTE Band 12 : 26dB BW(MHz)		
BW	3 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	3.00	3.03	2.99
Middle CH	3.02	3.03	3.03
Highest CH	3.04	3.03	3.02





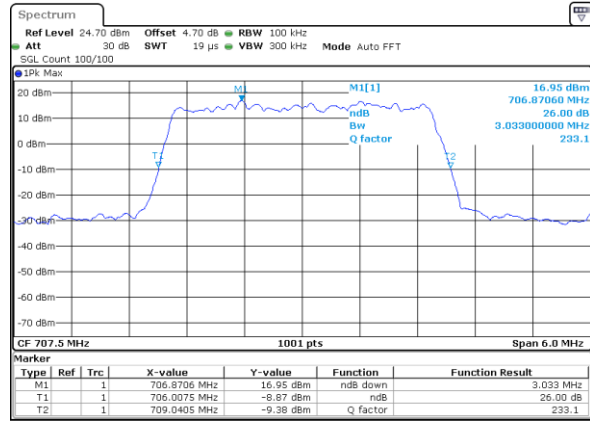
LTE Band 12

Middle Channel / 3MHz / QPSK



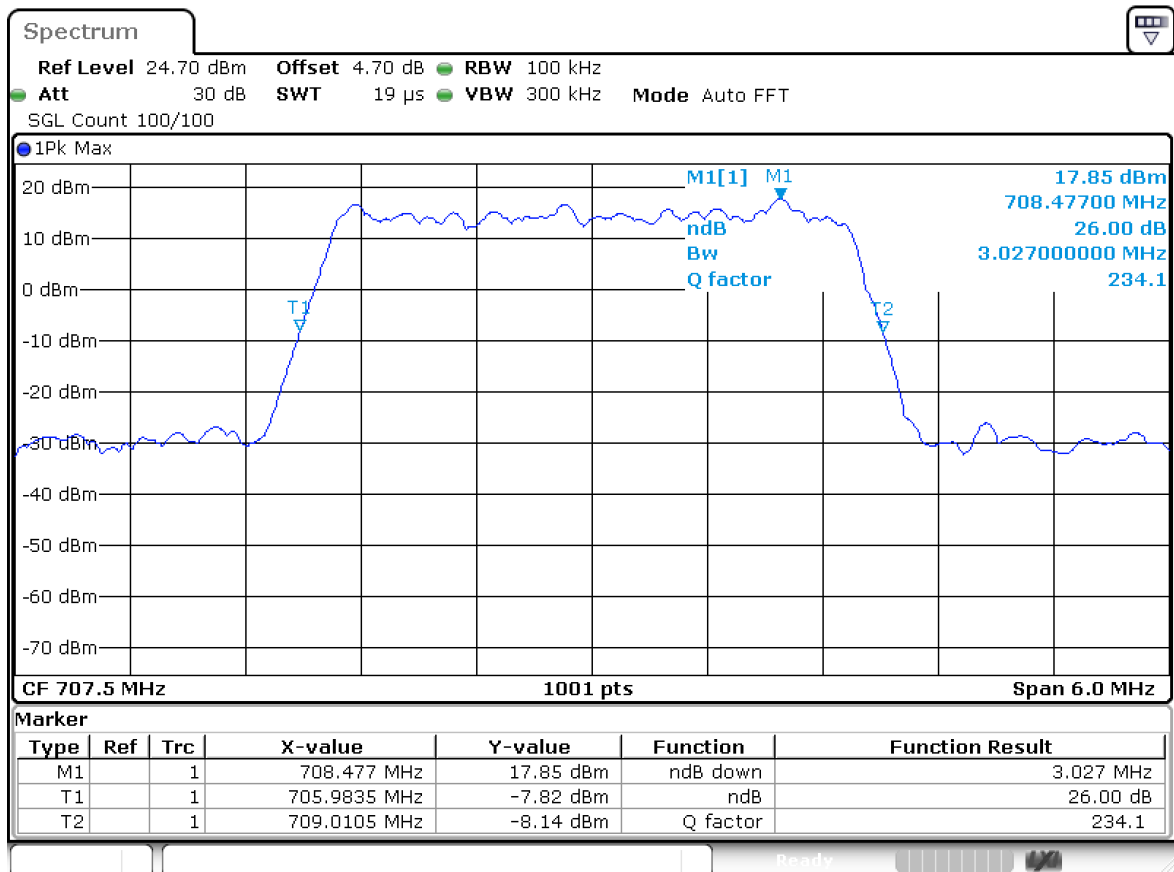
Date: 28.DEC.2021 04:44:55

Middle Channel / 3MHz / 16QAM



Date: 28.DEC.2021 04:45:37

Middle Channel / 3MHz / 64QAM

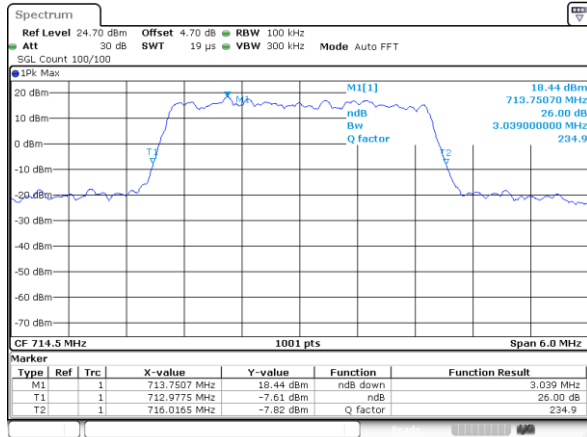


Date: 28.DEC.2021 04:46:19



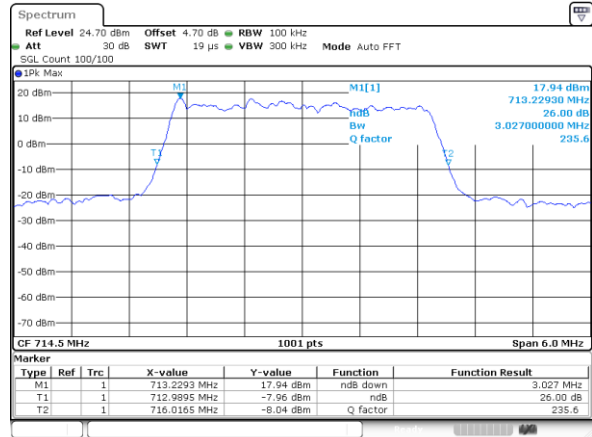
LTE Band 12

Highest Channel / 3MHz / QPSK



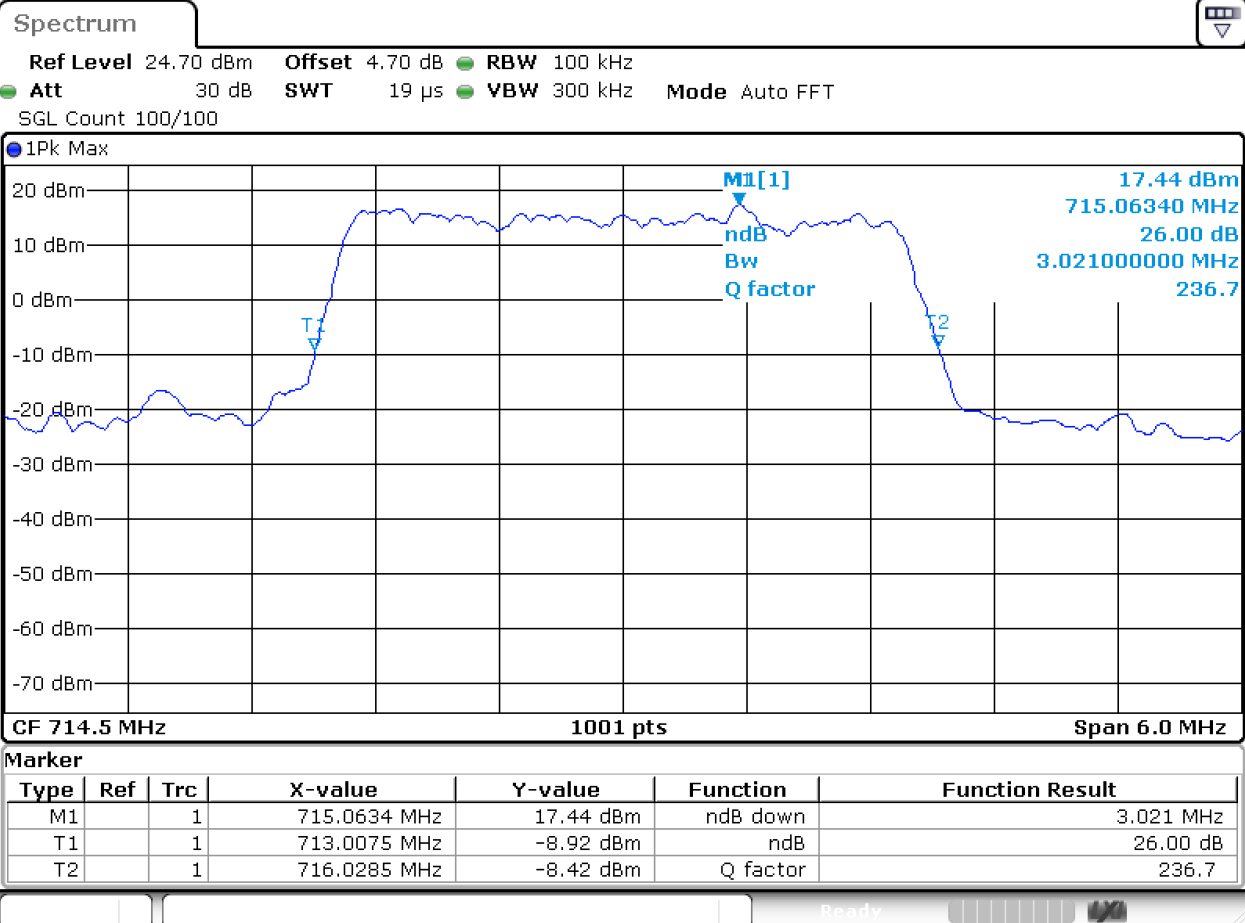
Date: 28.DEC.2021 04:47:01

Highest Channel / 3MHz / 16QAM



Date: 28.DEC.2021 04:47:44

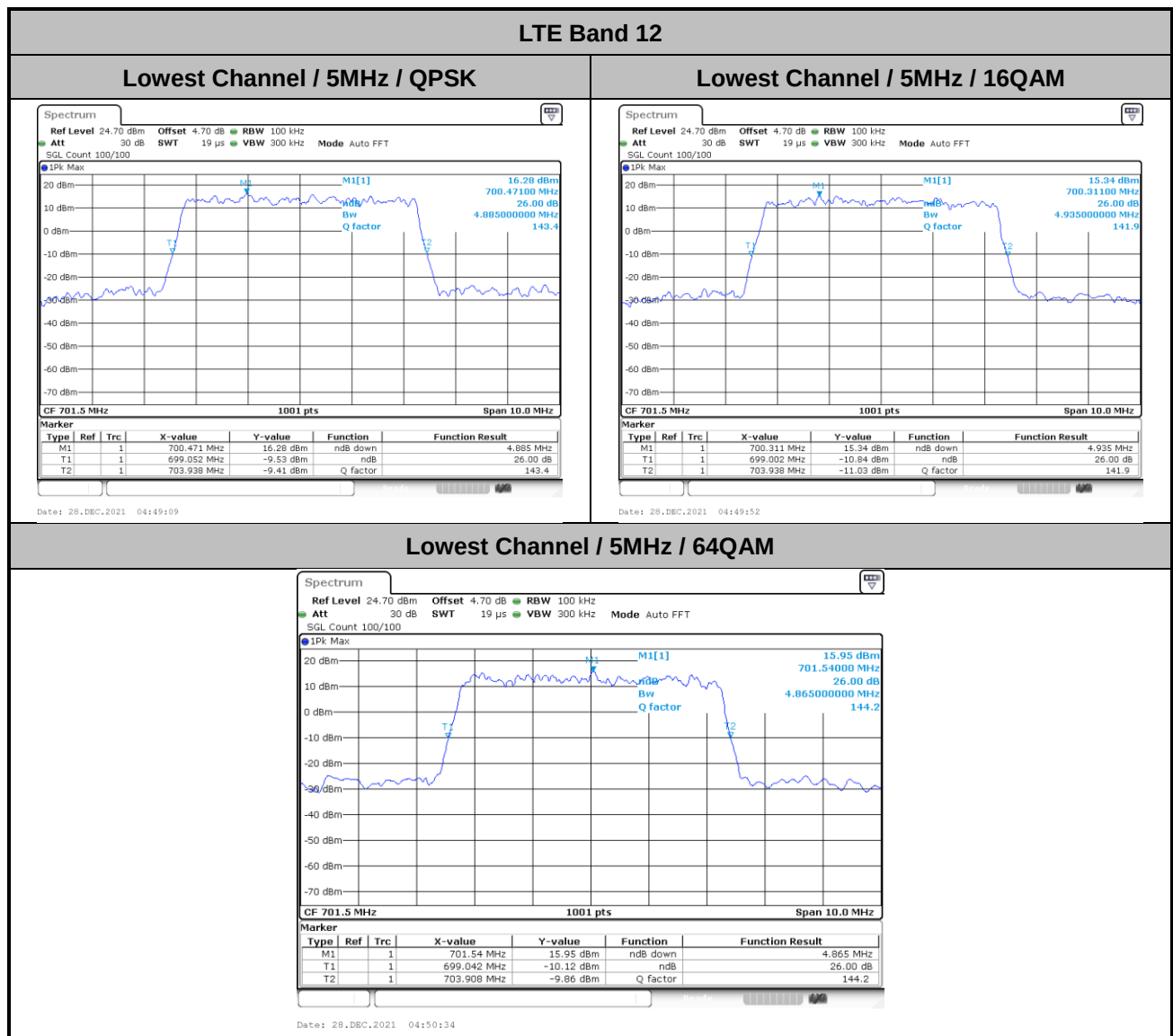
Highest Channel / 3MHz / 64QAM



Date: 28.DEC.2021 04:48:26



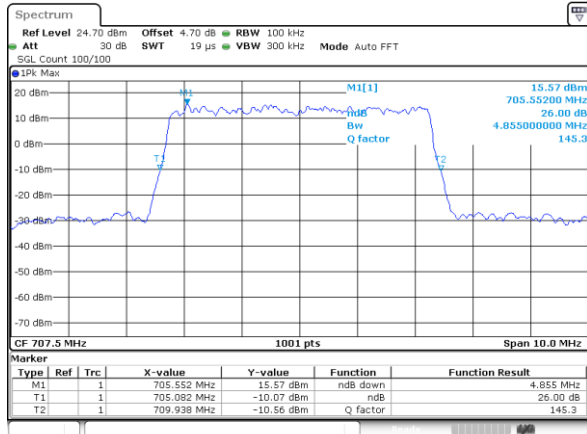
Mode	LTE Band 12 : 26dB BW(MHz)		
BW	5 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	4.89	4.94	4.87
Middle CH	4.86	4.90	4.88
Highest CH	4.93	4.87	4.90





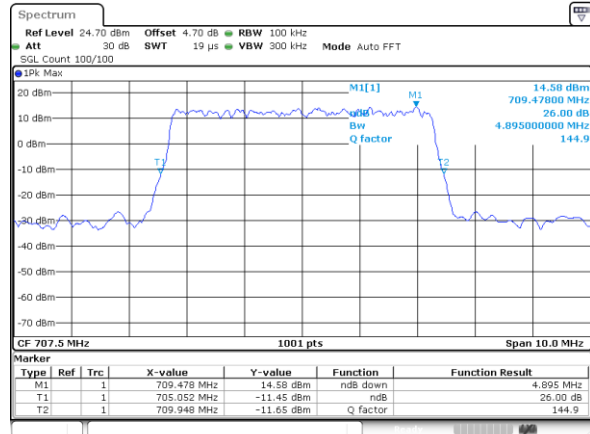
LTE Band 12

Middle Channel / 5MHz / QPSK



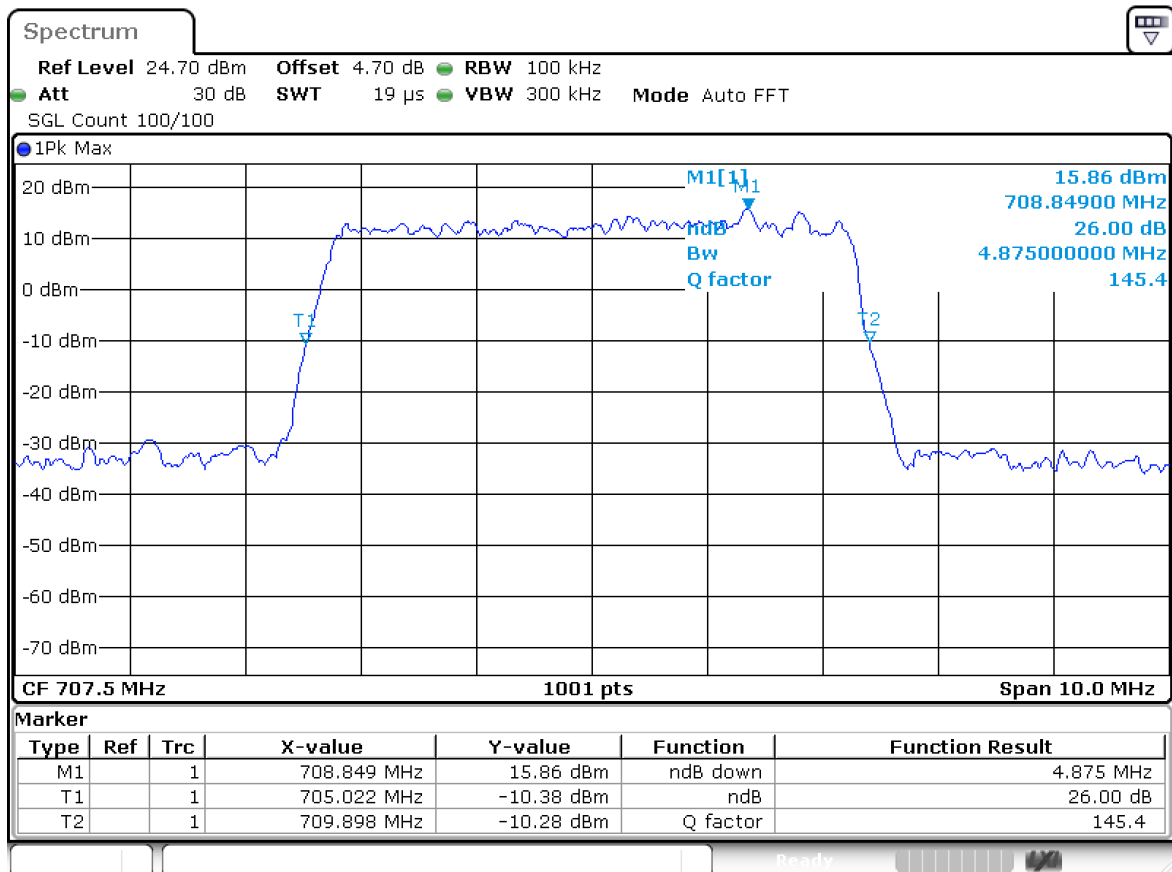
Date: 28.DEC.2021 04:51:16

Middle Channel / 5MHz / 16QAM



Date: 28.DEC.2021 04:51:58

Middle Channel / 5MHz / 64QAM

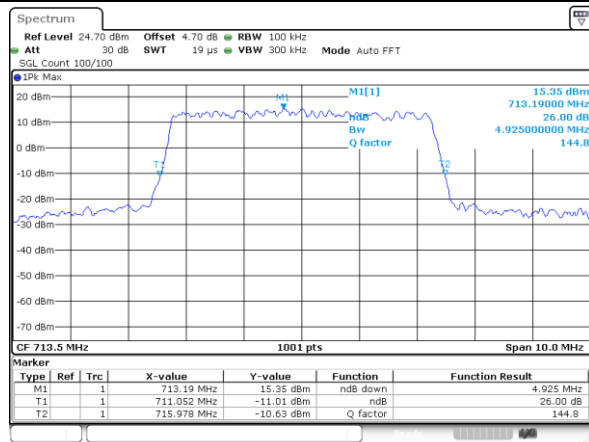


Date: 28.DEC.2021 04:52:39



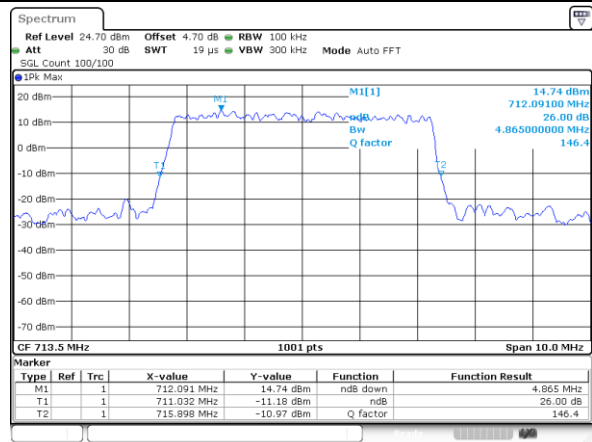
LTE Band 12

Highest Channel / 5MHz / QPSK



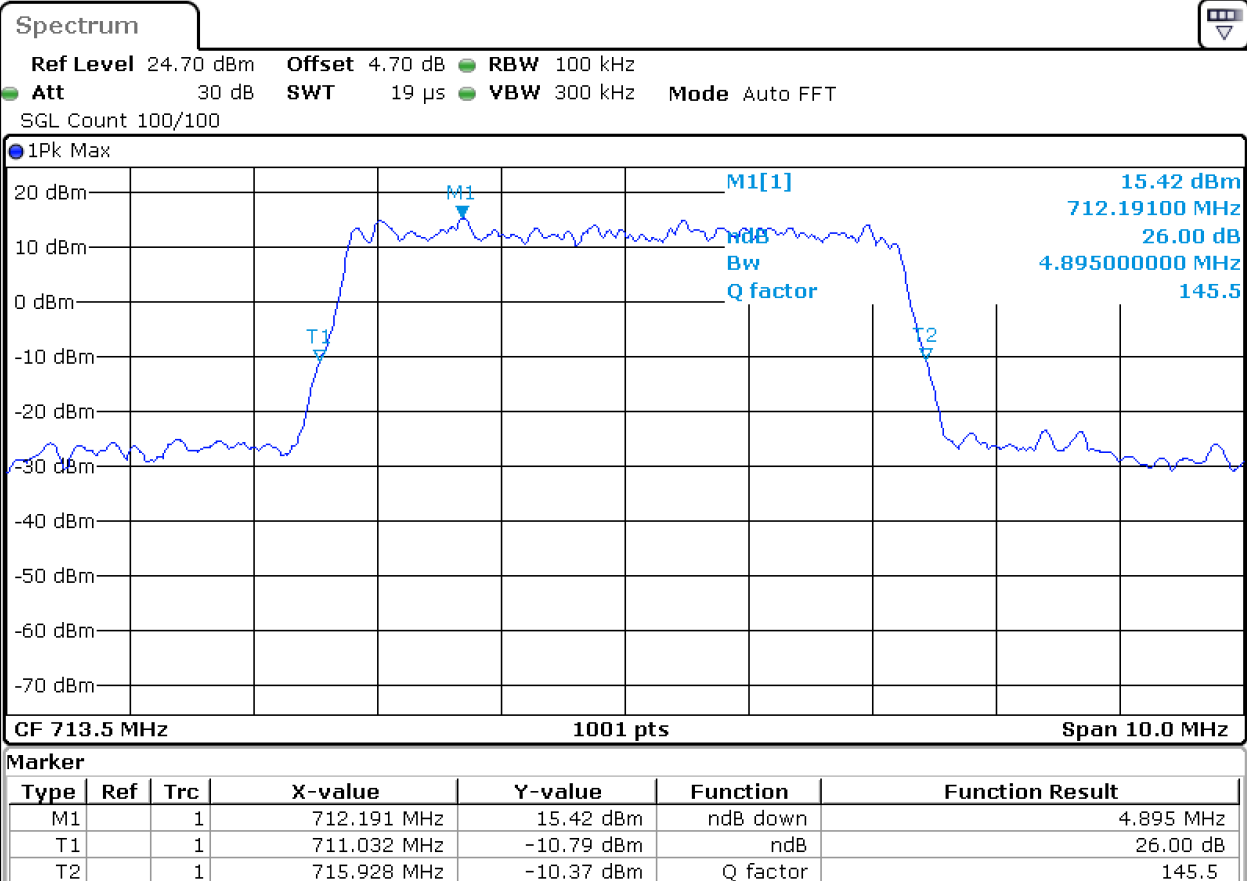
Date: 28.DEC.2021 04:53:21

Highest Channel / 5MHz / 16QAM



Date: 28.DEC.2021 04:54:04

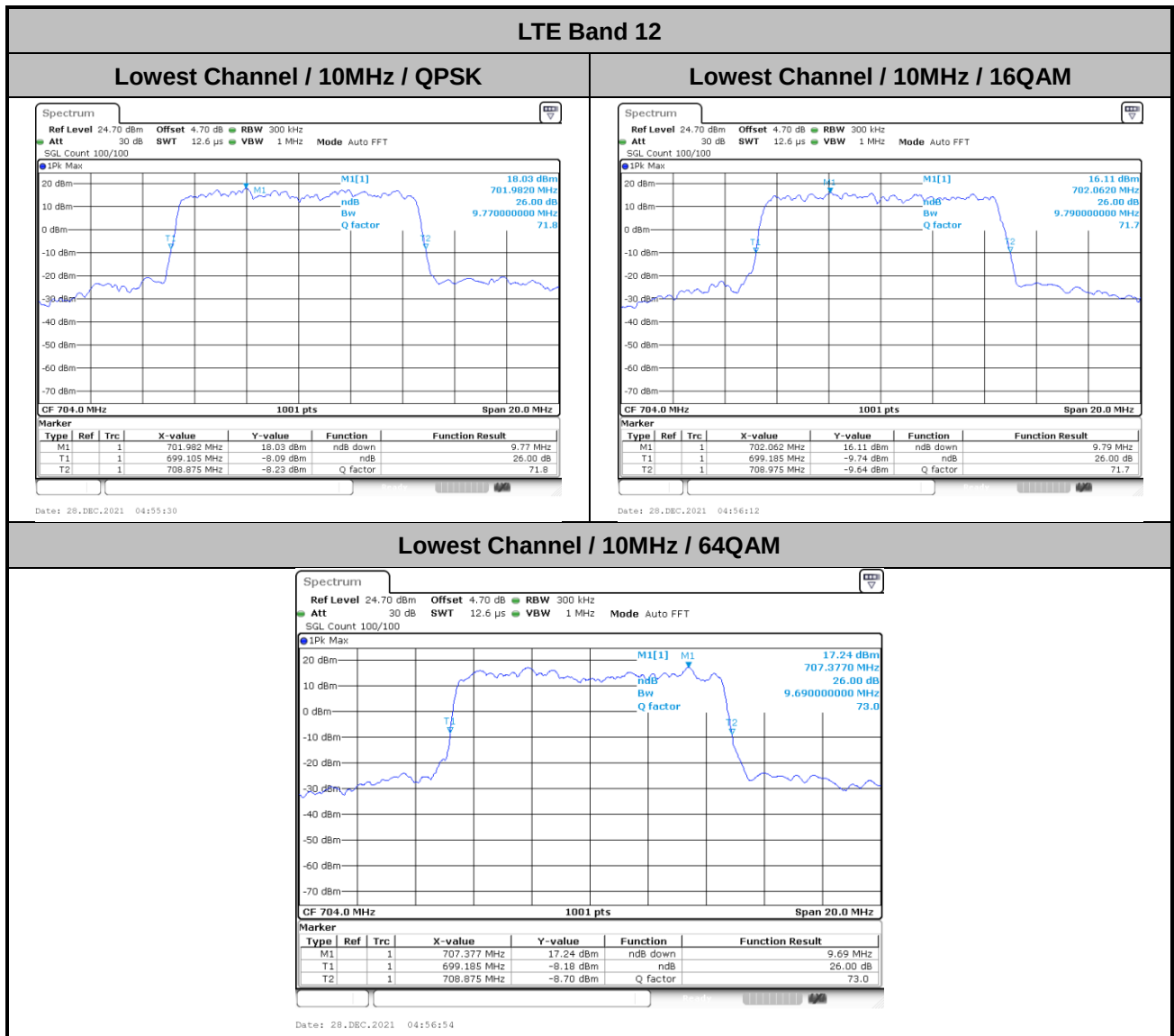
Highest Channel / 5MHz / 64QAM



Date: 28.DEC.2021 04:54:47



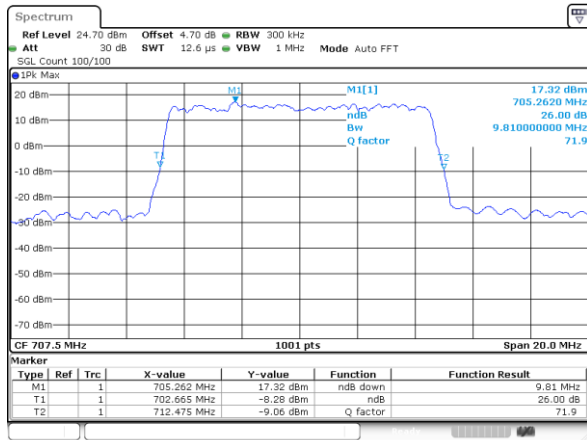
Mode	LTE Band 12 : 26dB BW(MHz)		
BW	10 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	9.77	9.79	9.69
Middle CH	9.81	9.71	9.77
Highest CH	9.71	9.75	9.77





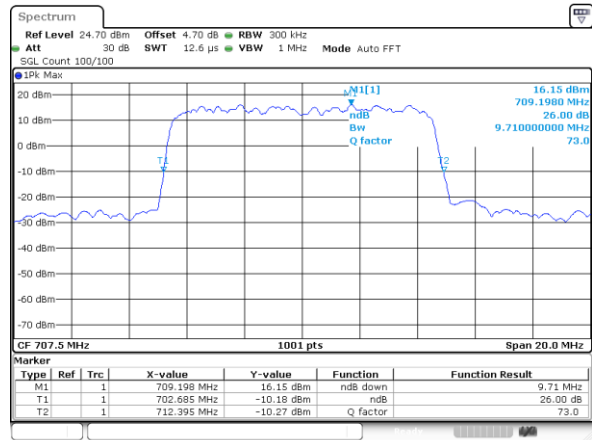
LTE Band 12

Middle Channel / 10MHz / QPSK



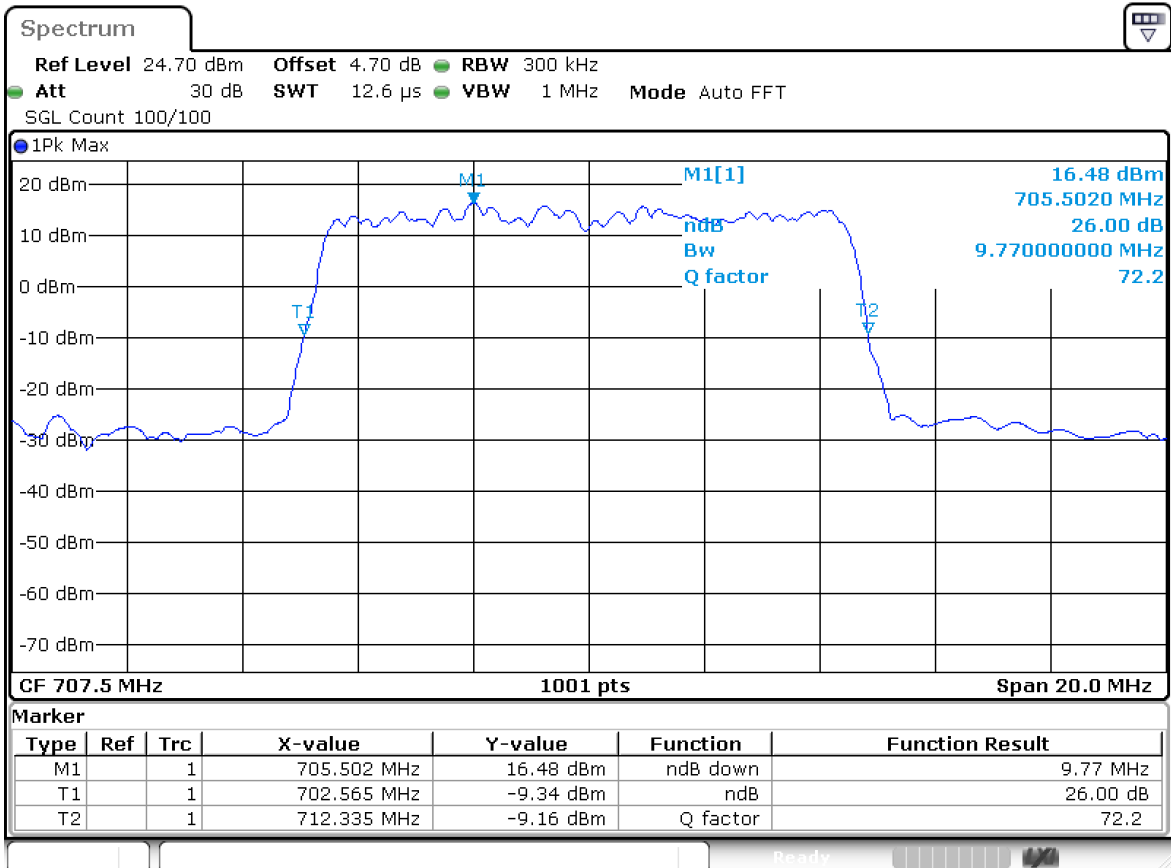
Date: 28.DEC.2021 04:57:36

Middle Channel / 10MHz / 16QAM



Date: 28.DEC.2021 04:58:17

Middle Channel / 10MHz / 64QAM

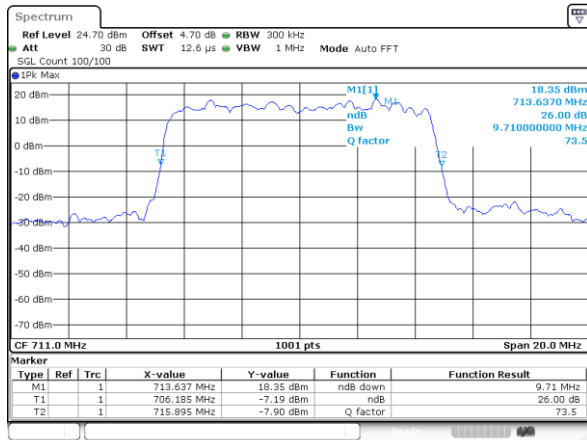


Date: 28.DEC.2021 04:58:59



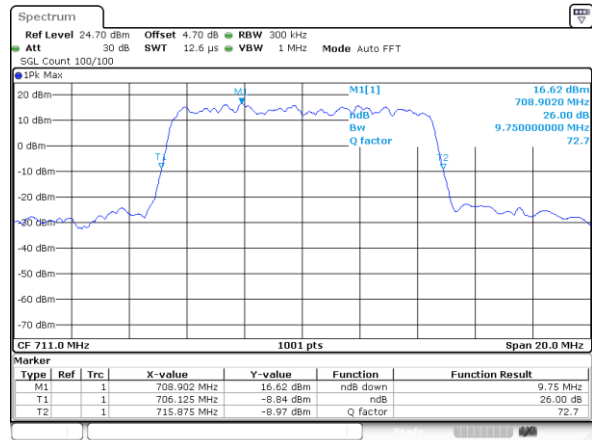
LTE Band 12

Highest Channel / 10MHz / QPSK



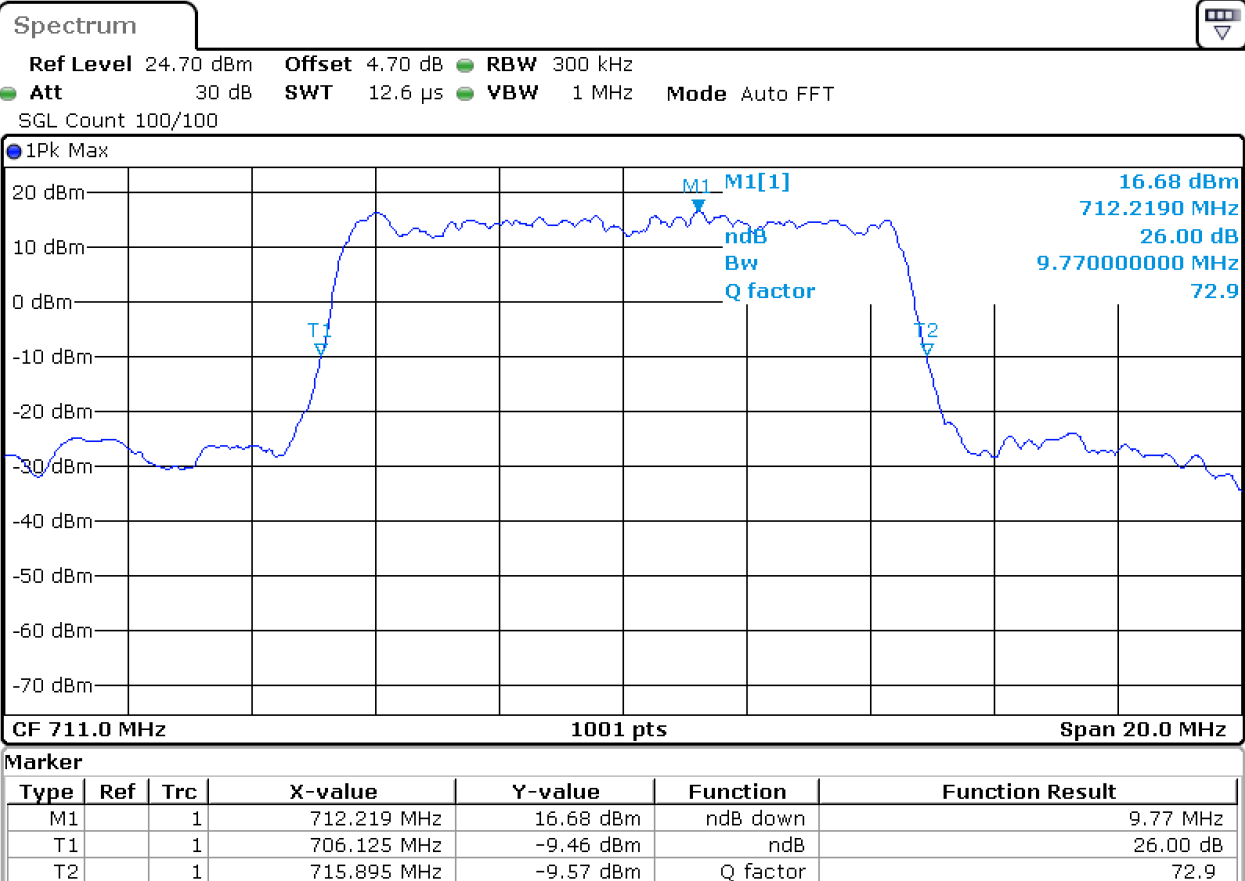
Date: 28.DEC.2021 04:59:41

Highest Channel / 10MHz / 16QAM



Date: 28.DEC.2021 05:00:23

Highest Channel / 10MHz / 64QAM

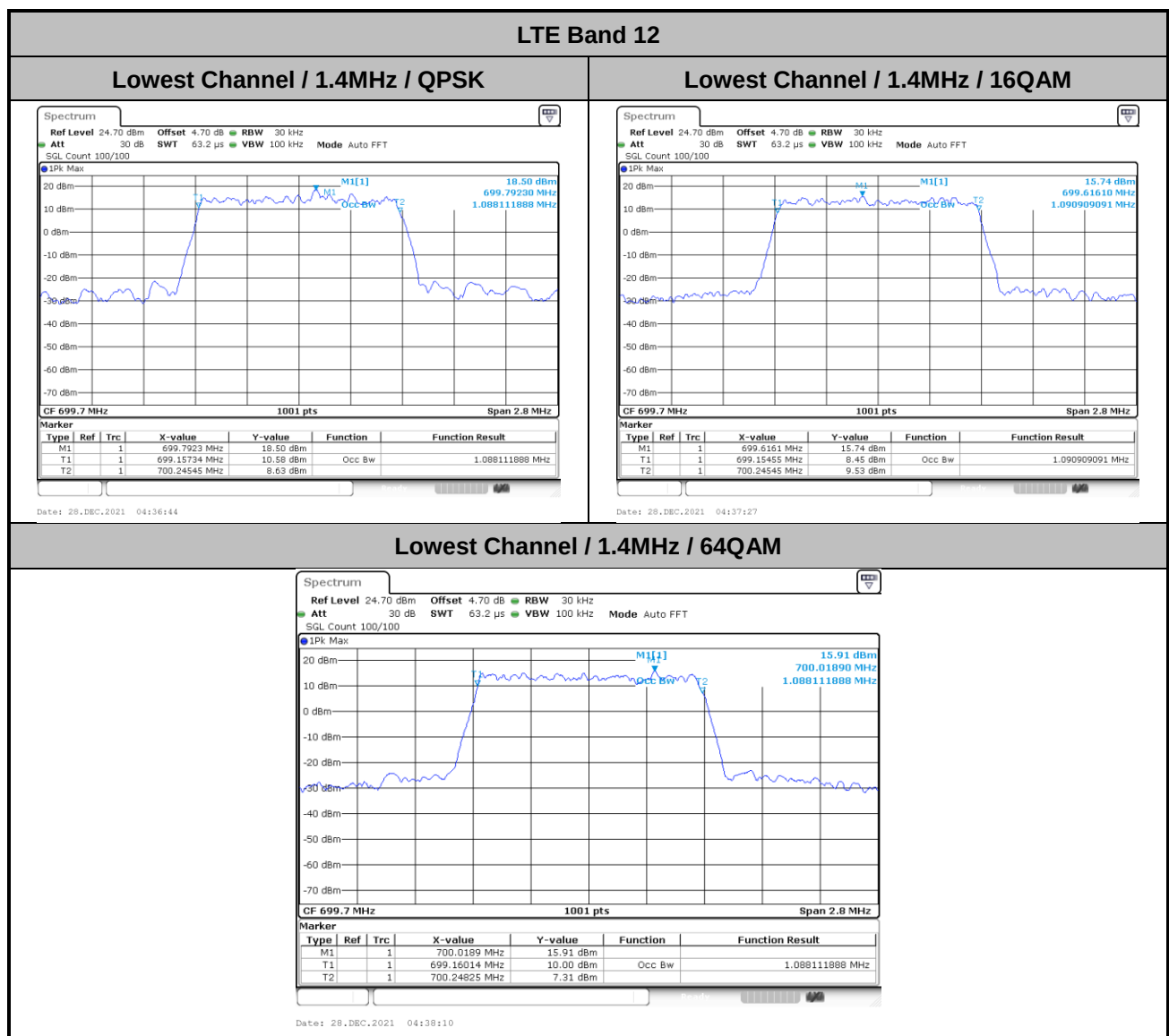


Date: 28.DEC.2021 05:01:05



Occupied Bandwidth

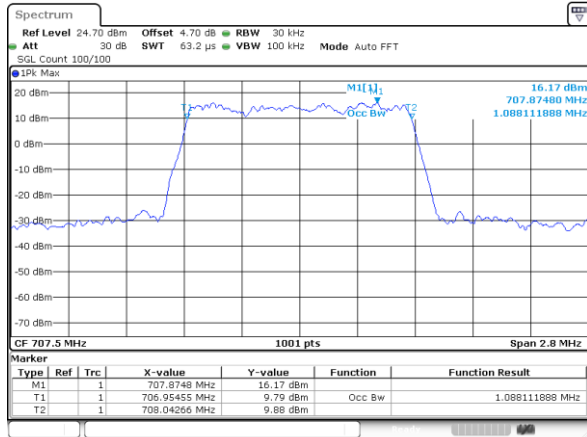
Mode	LTE Band 12 : 99%OBW(MHz)		
BW	1.4 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	1.09	1.09	1.09
Middle CH	1.09	1.08	1.09
Highest CH	1.09	1.09	1.09





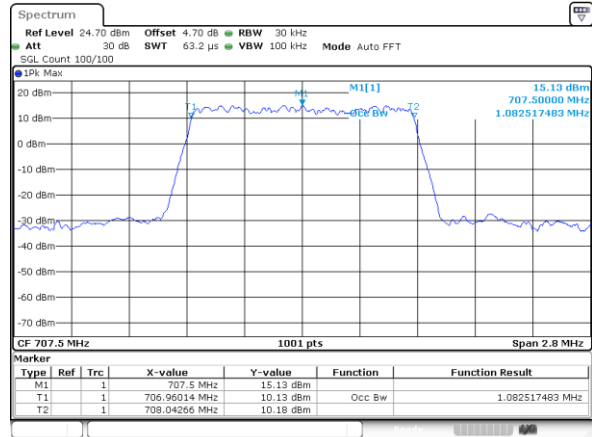
LTE Band 12

Middle Channel / 1.4MHz / QPSK



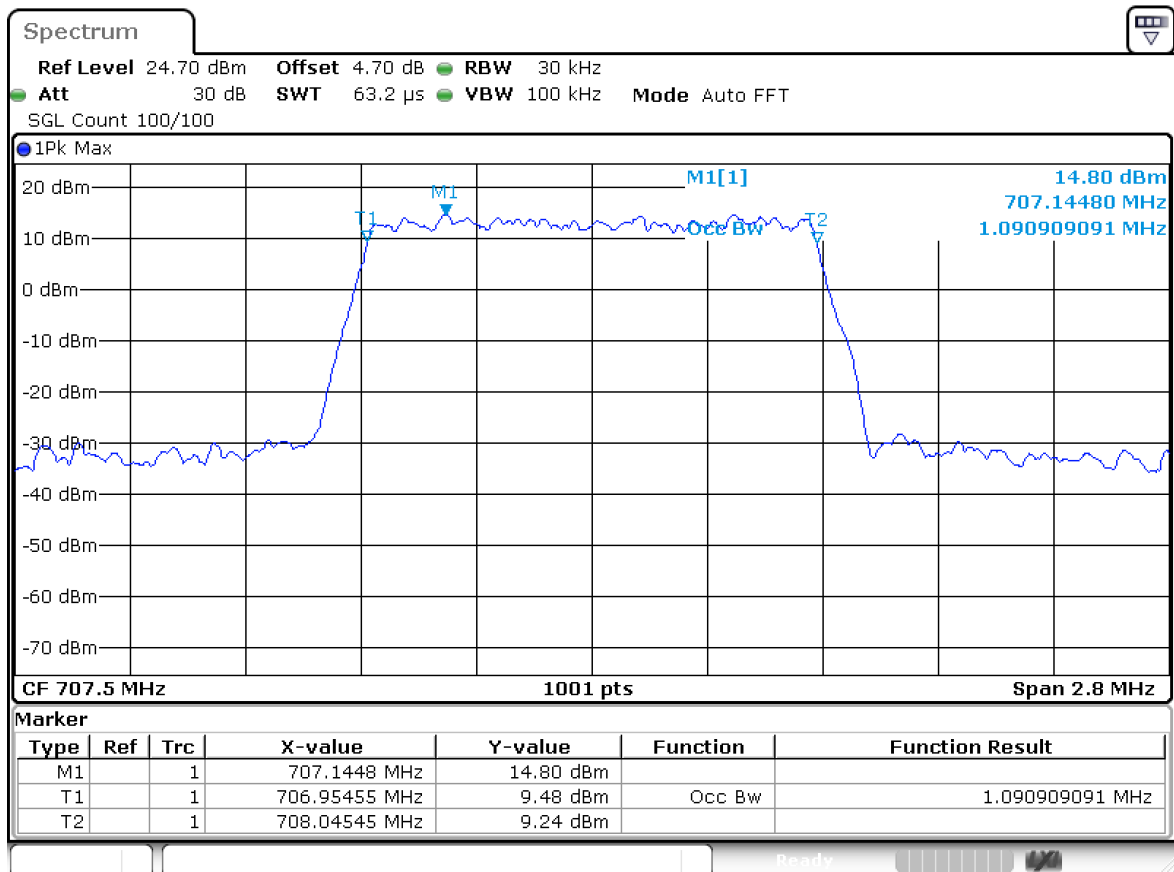
Date: 28.DEC.2021 04:38:52

Middle Channel / 1.4MHz / 16QAM



Date: 28.DEC.2021 04:39:34

Middle Channel / 1.4MHz / 64QAM

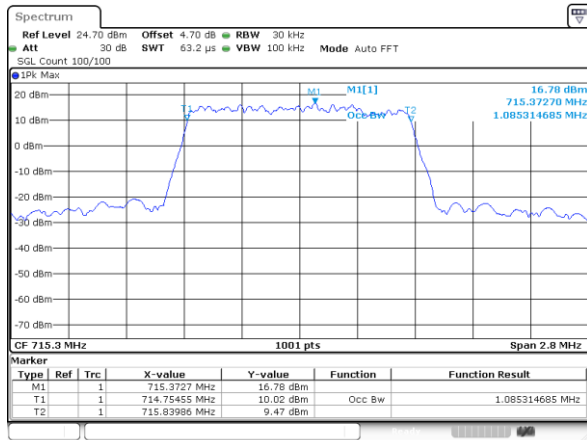


Date: 28.DEC.2021 04:40:16

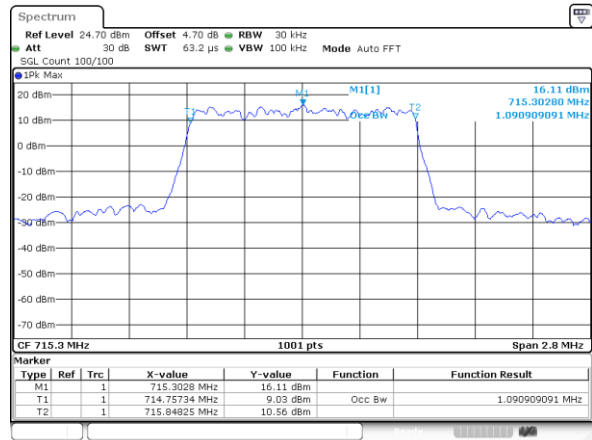


LTE Band 12

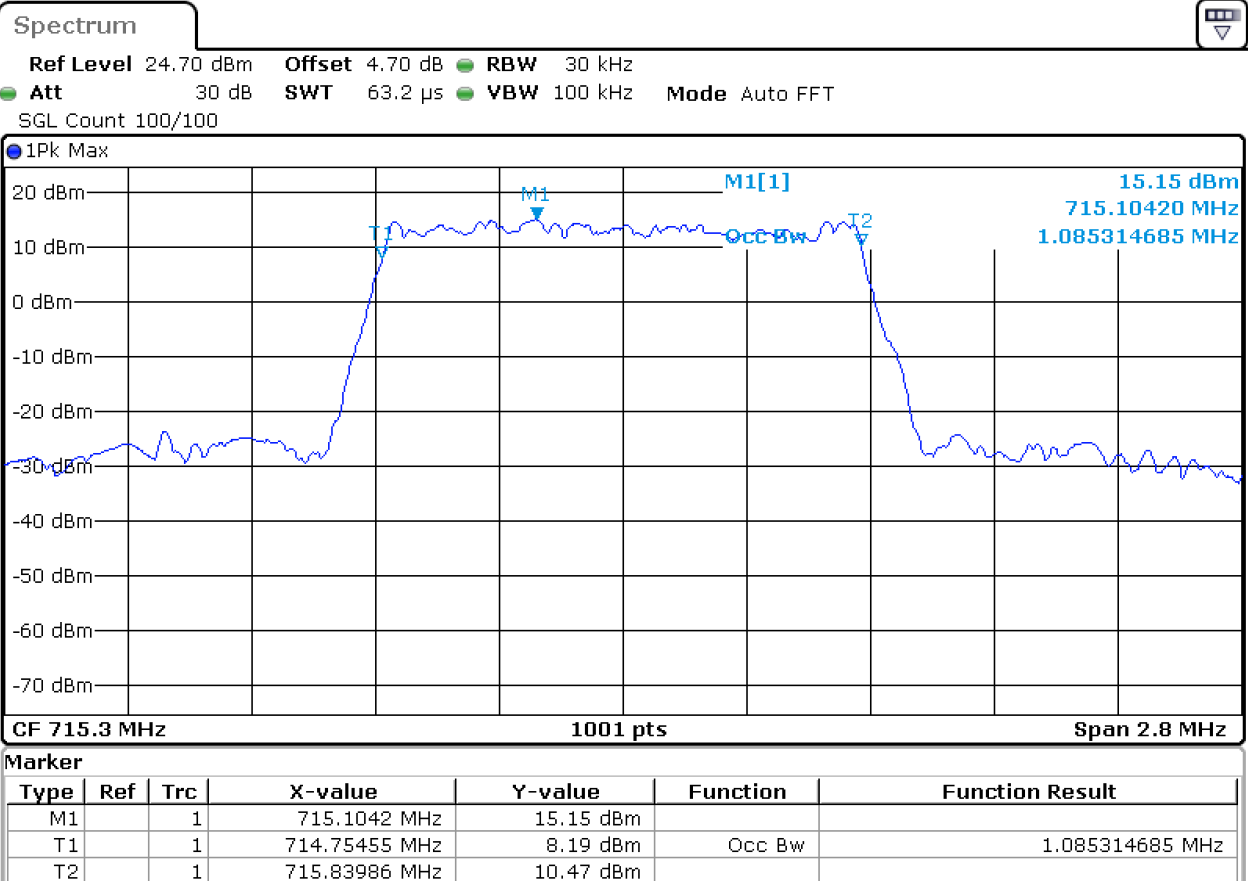
Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

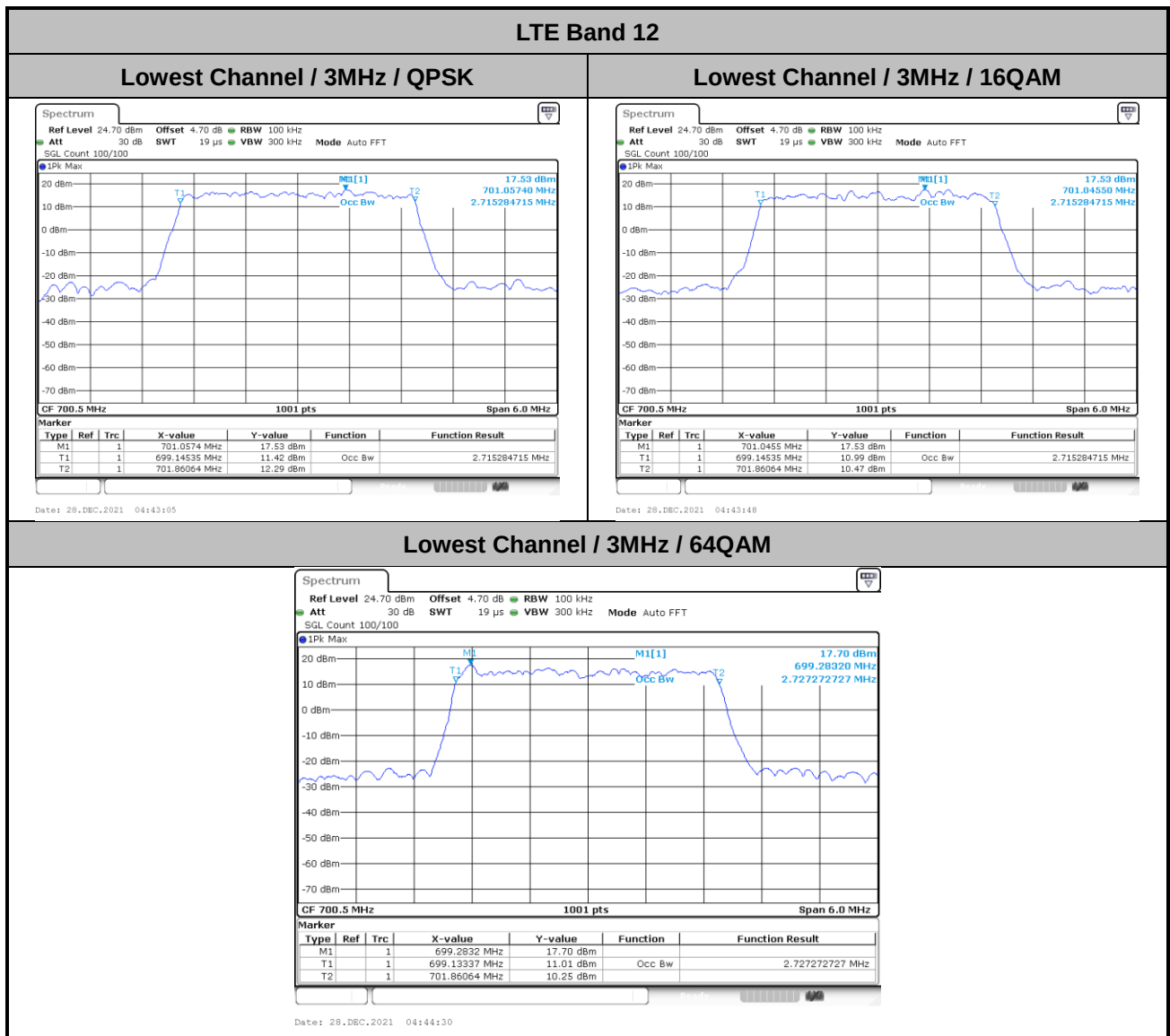


Highest Channel / 1.4MHz / 64QAM





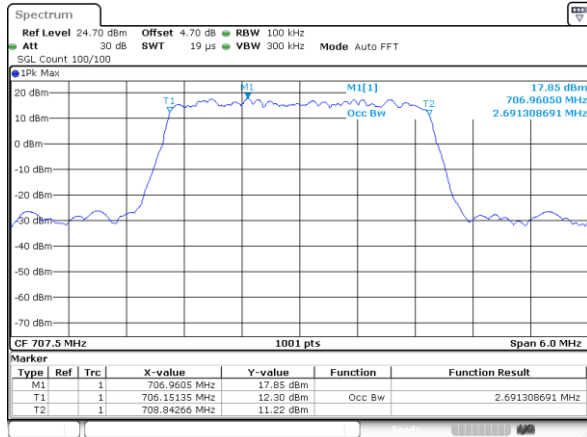
Mode	LTE Band 12 : 99%OBW(MHz)		
BW	3 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	2.72	2.72	2.73
Middle CH	2.69	2.71	2.72
Highest CH	2.72	2.72	2.73





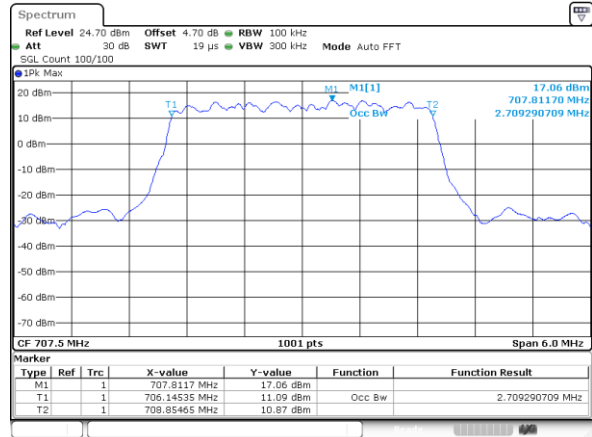
LTE Band 12

Middle Channel / 3MHz / QPSK



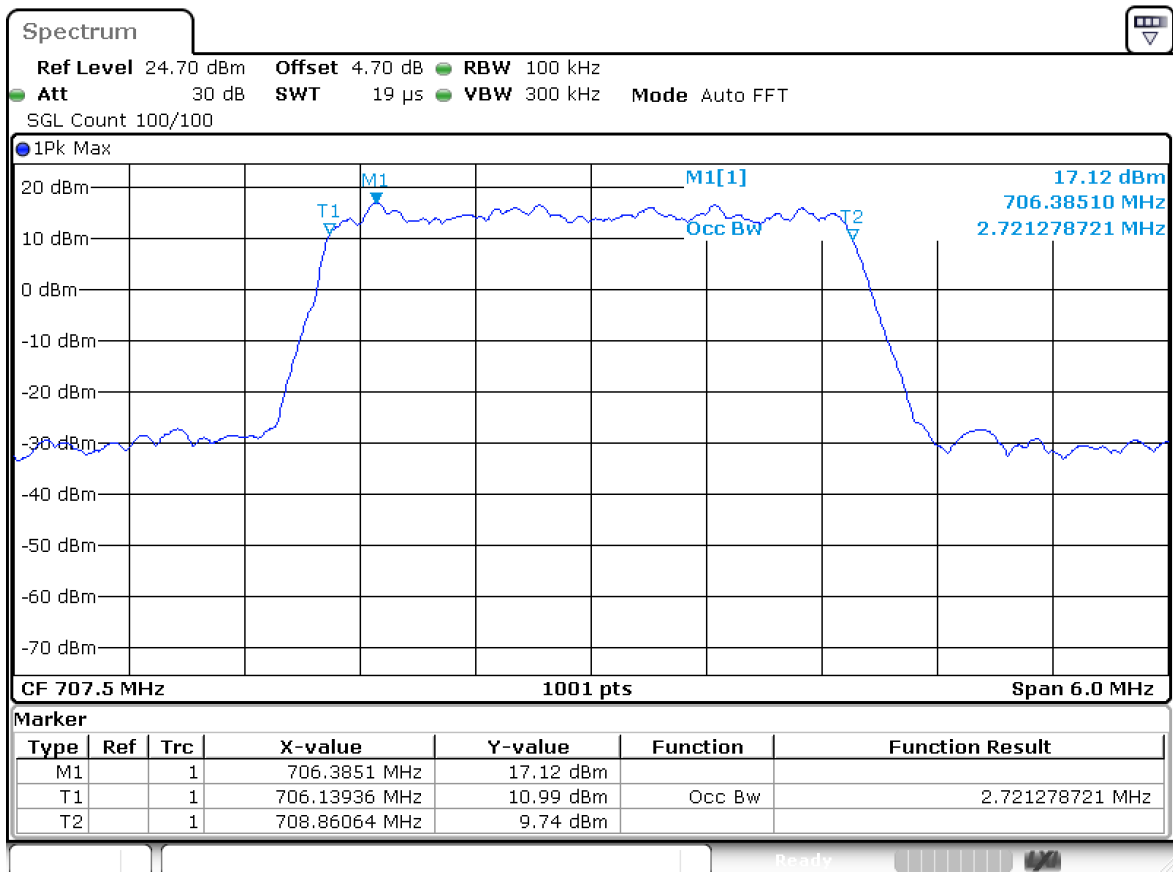
Date: 28.DEC.2021 04:45:12

Middle Channel / 3MHz / 16QAM



Date: 28.DEC.2021 04:45:14

Middle Channel / 3MHz / 64QAM

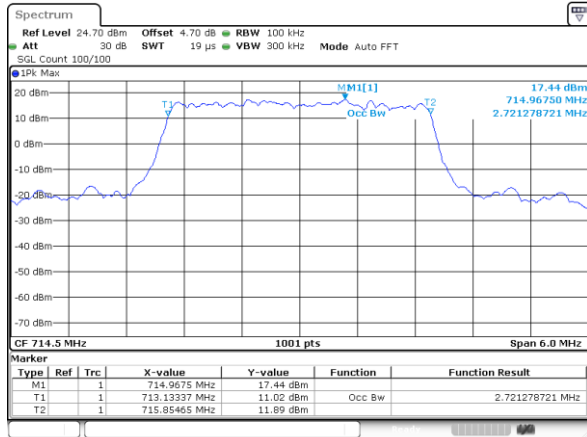


Date: 28.DEC.2021 04:46:35



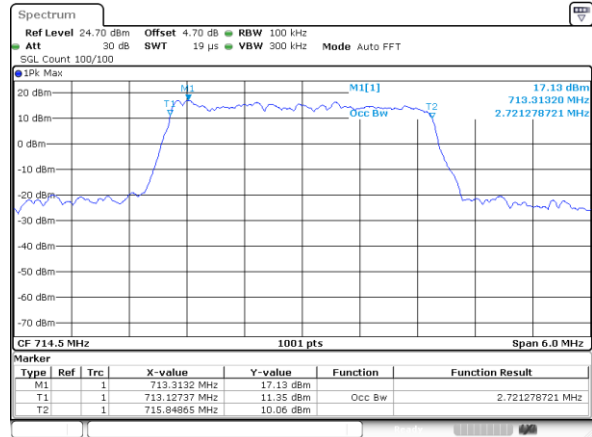
LTE Band 12

Highest Channel / 3MHz / QPSK



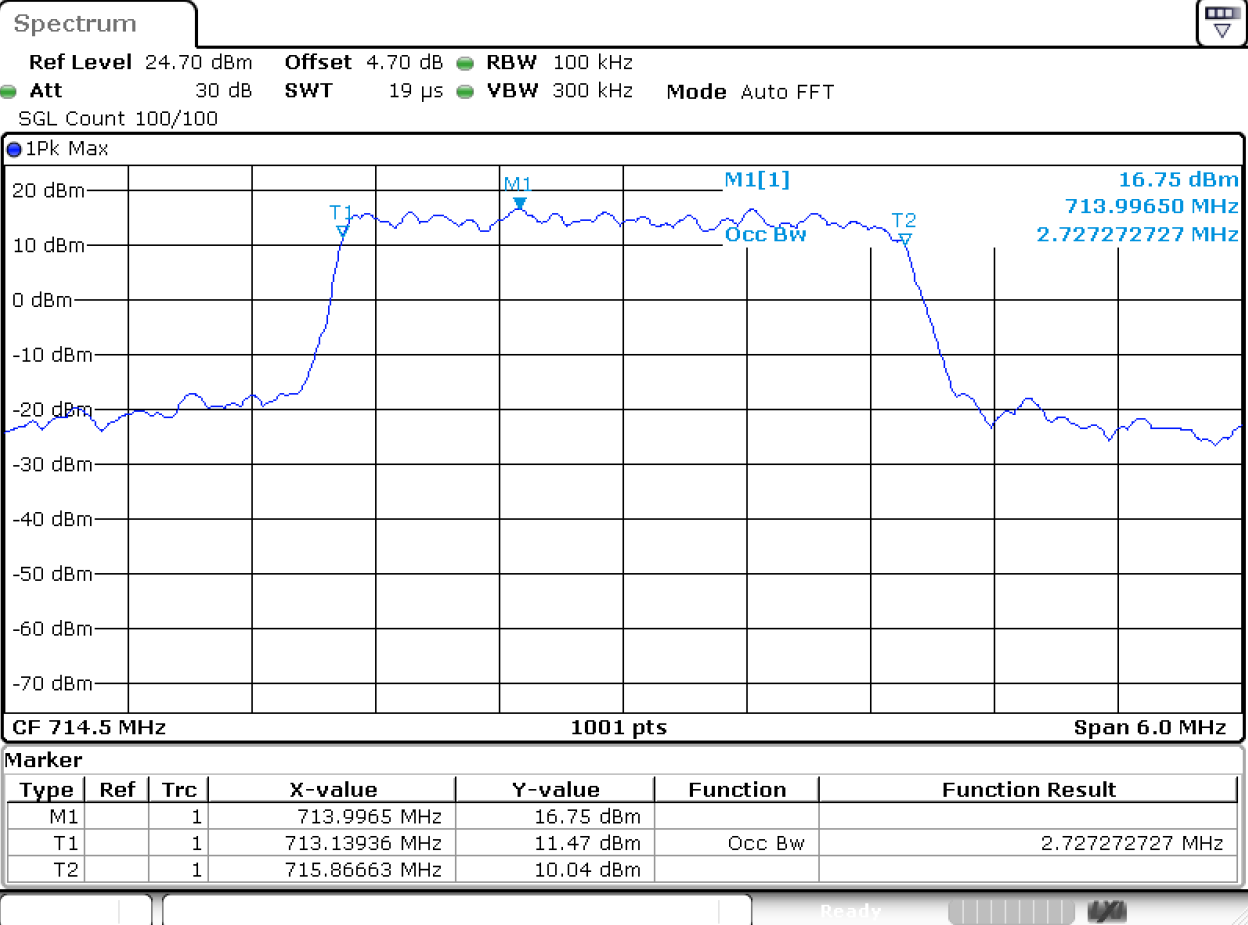
Date: 28.DEC.2021 04:47:19

Highest Channel / 3MHz / 16QAM



Date: 28.DEC.2021 04:48:00

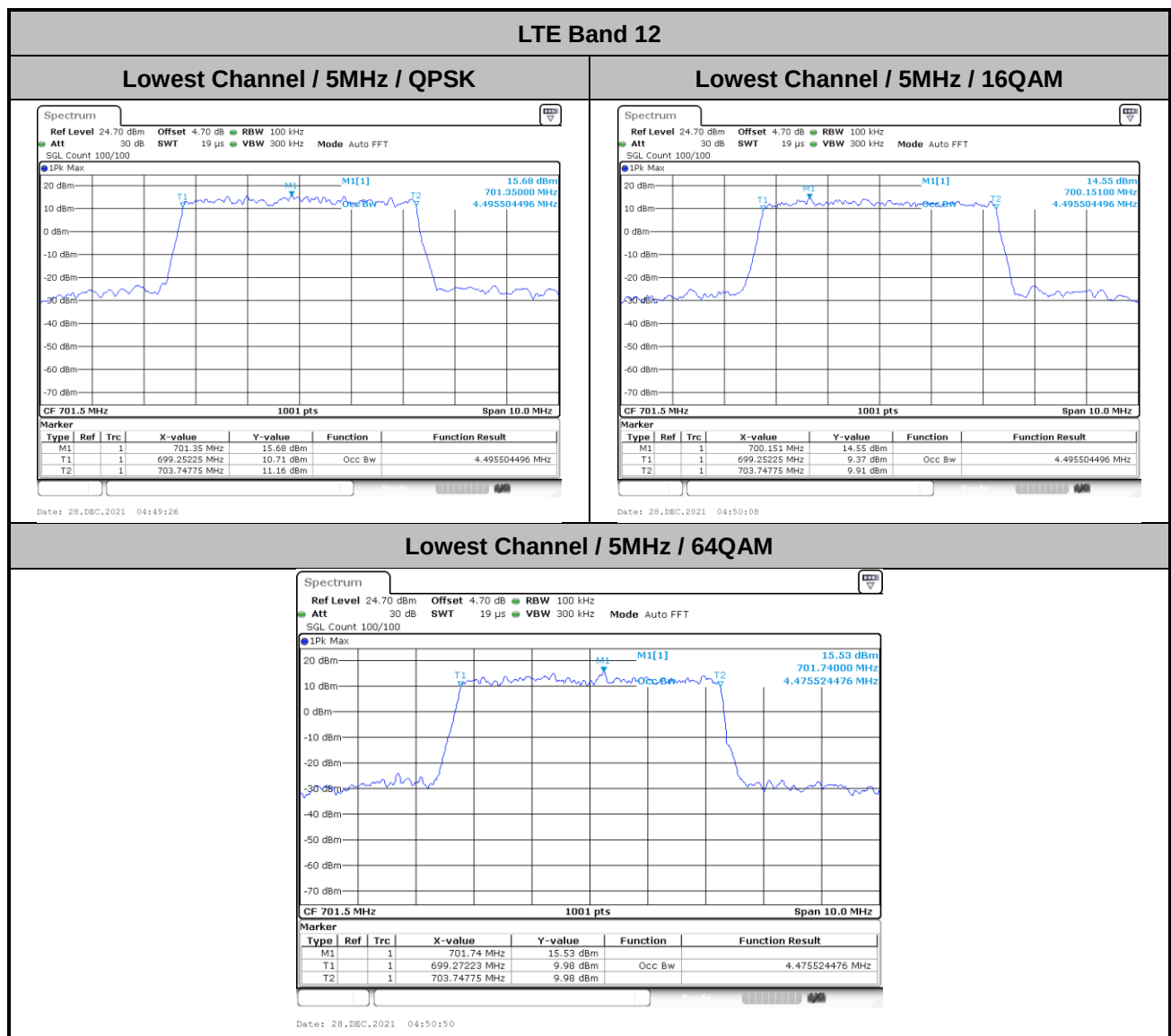
Highest Channel / 3MHz / 64QAM



Date: 28.DEC.2021 04:48:43



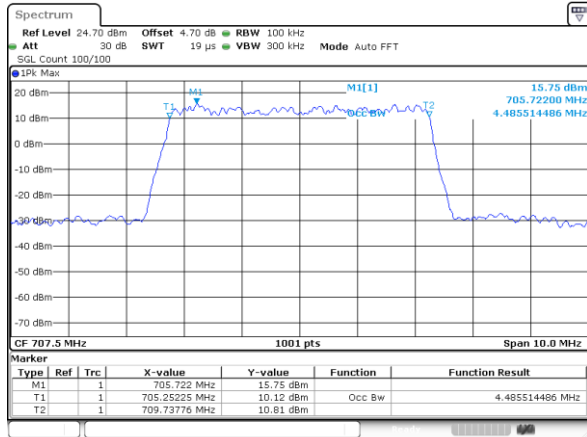
Mode	LTE Band 12 : 99%OBW(MHz)		
BW	5 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	4.50	4.50	4.48
Middle CH	4.49	4.51	4.50
Highest CH	4.49	4.48	4.49





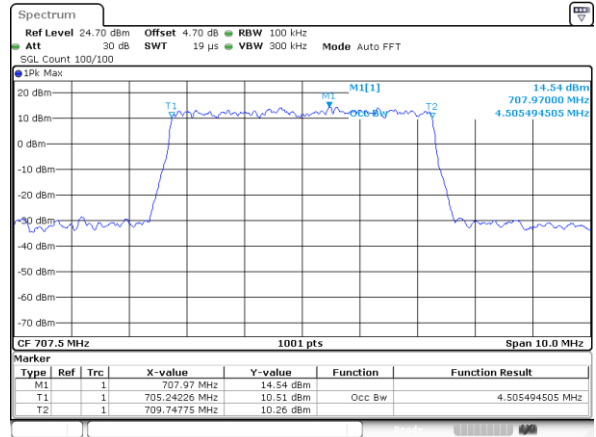
LTE Band 12

Middle Channel / 5MHz / QPSK



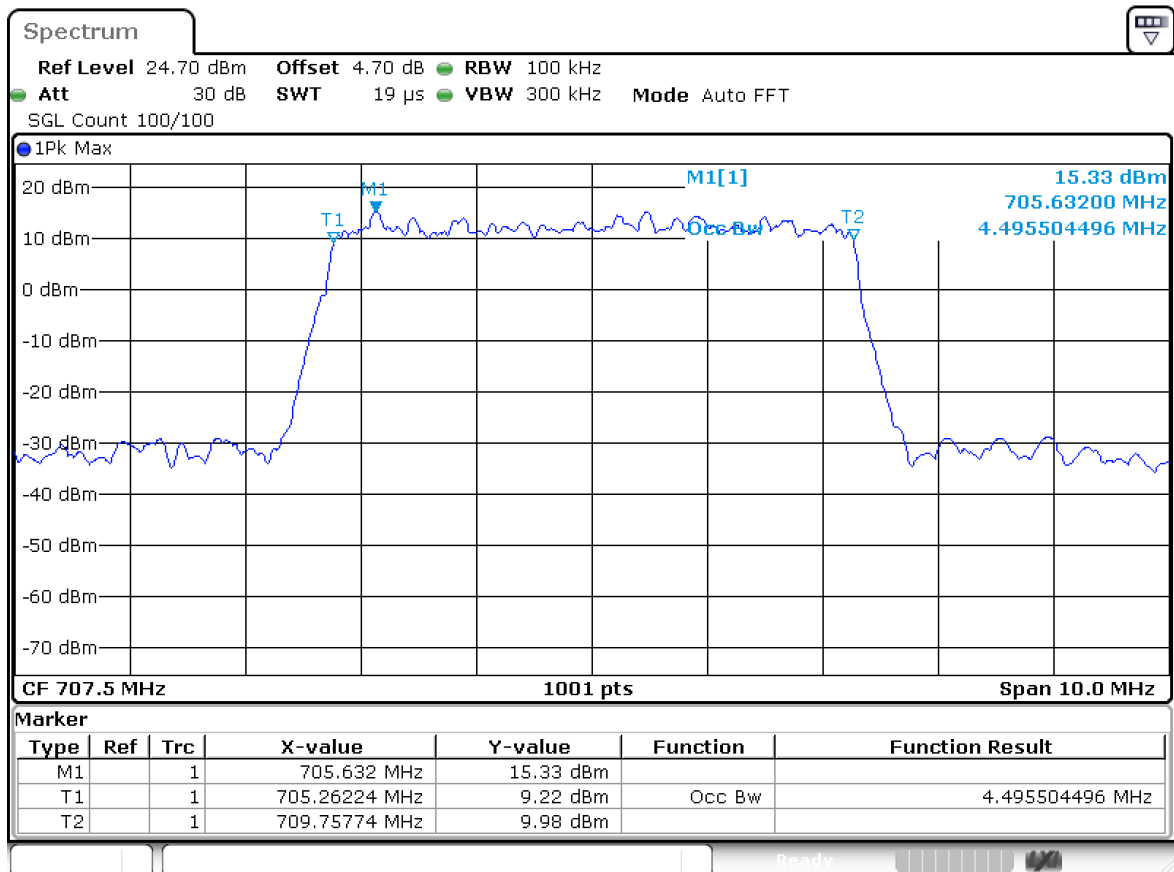
Date: 28.DEC.2021 04:51:33

Middle Channel / 5MHz / 16QAM



Date: 28.DEC.2021 04:52:14

Middle Channel / 5MHz / 64QAM

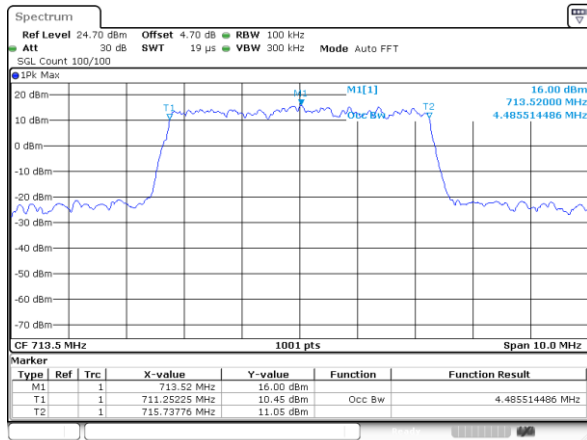


Date: 28.DEC.2021 04:52:56



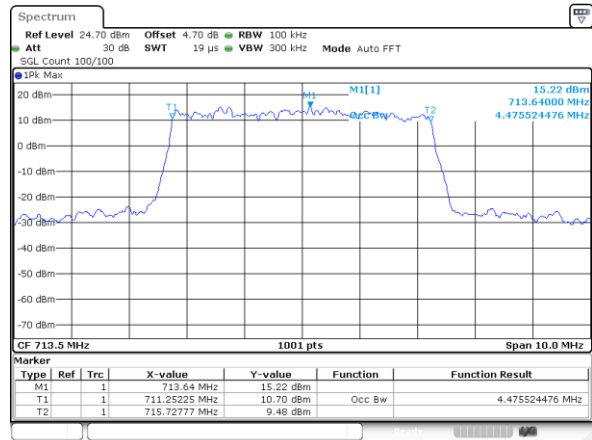
LTE Band 12

Highest Channel / 5MHz / QPSK



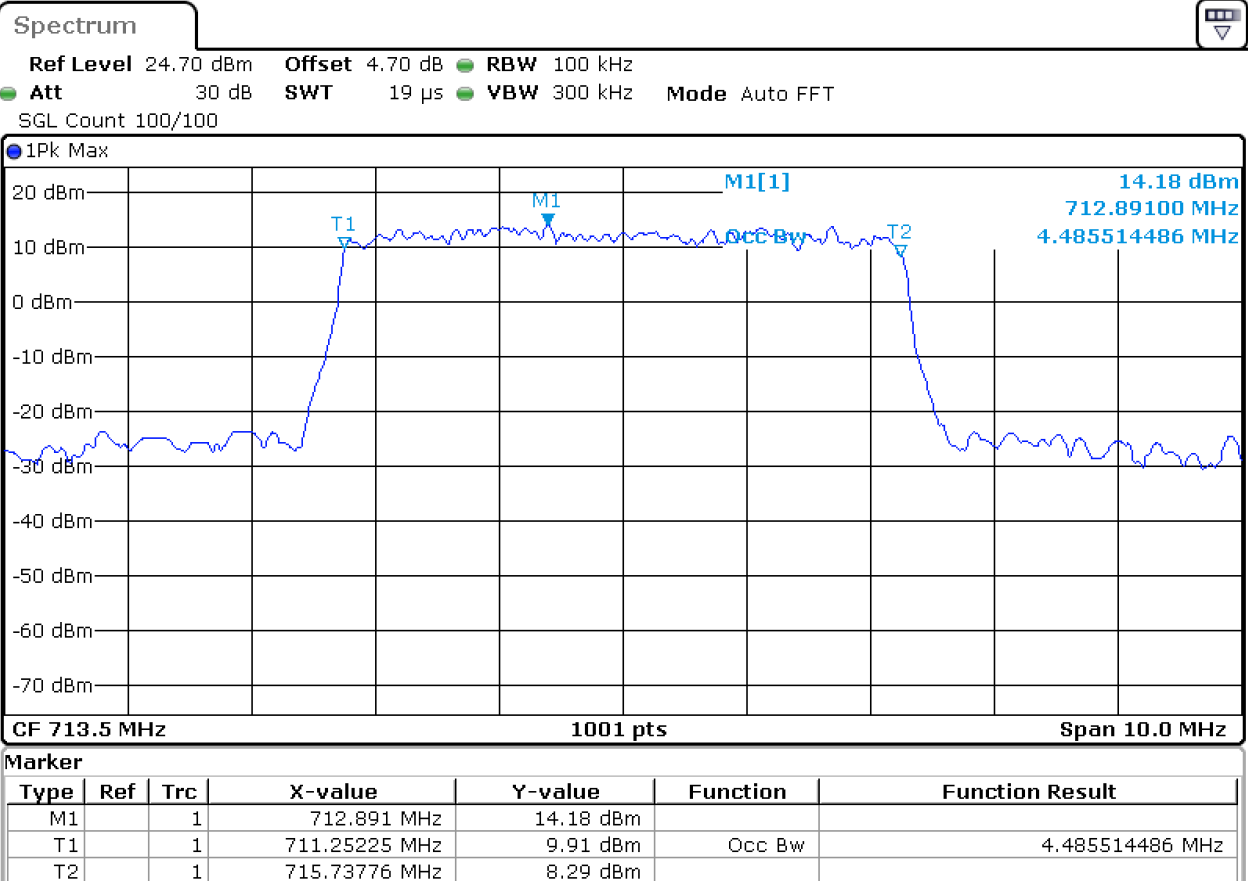
Date: 28.DEC.2021 04:53:39

Highest Channel / 5MHz / 16QAM



Date: 28.DEC.2021 04:54:21

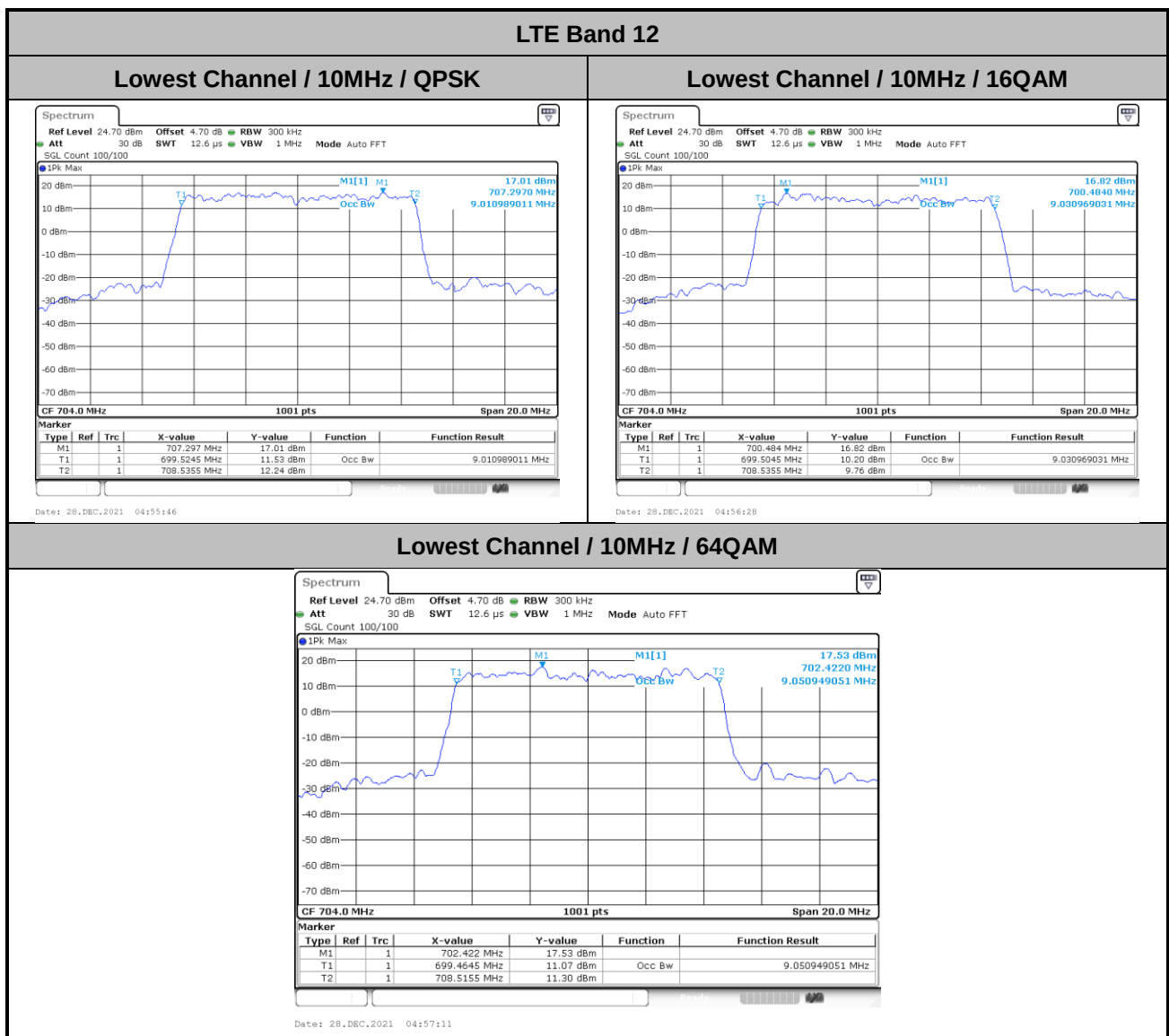
Highest Channel / 5MHz / 64QAM



Date: 28.DEC.2021 04:55:03



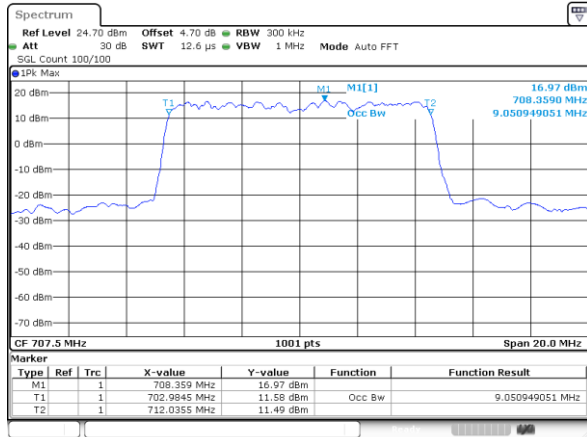
Mode	LTE Band 12 : 99%OBW(MHz)		
BW	10 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	9.01	9.03	9.05
Middle CH	9.05	8.97	9.03
Highest CH	9.05	8.97	8.99





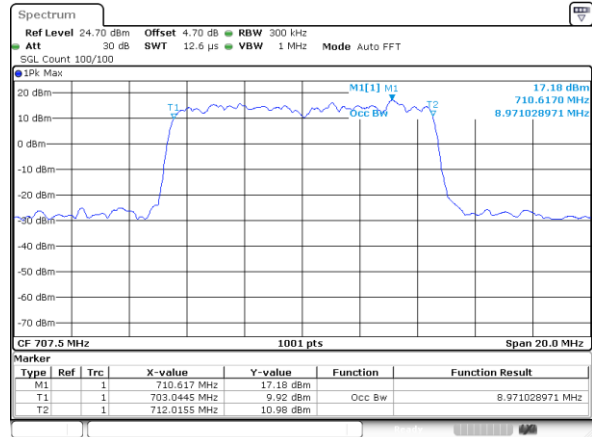
LTE Band 12

Middle Channel / 10MHz / QPSK



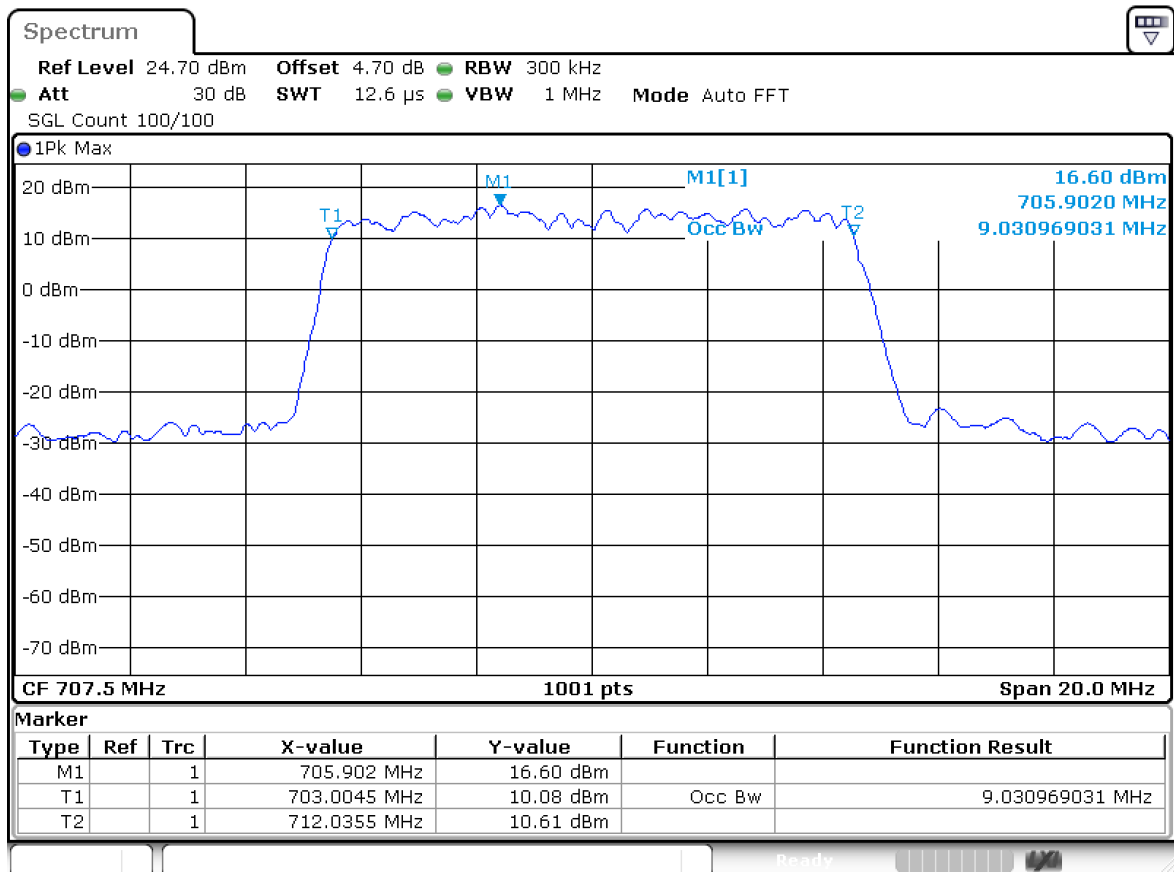
Date: 28.DEC.2021 04:57:52

Middle Channel / 10MHz / 16QAM



Date: 28.DEC.2021 04:58:34

Middle Channel / 10MHz / 64QAM

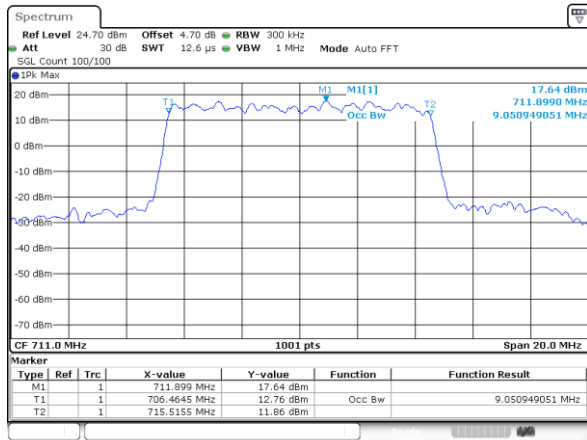


Date: 28.DEC.2021 04:59:16



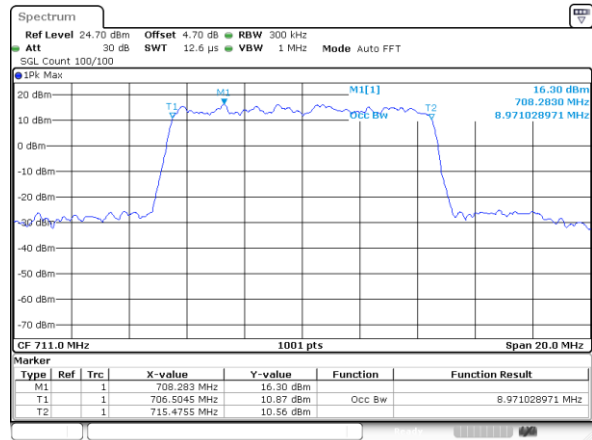
LTE Band 12

Highest Channel / 10MHz / QPSK



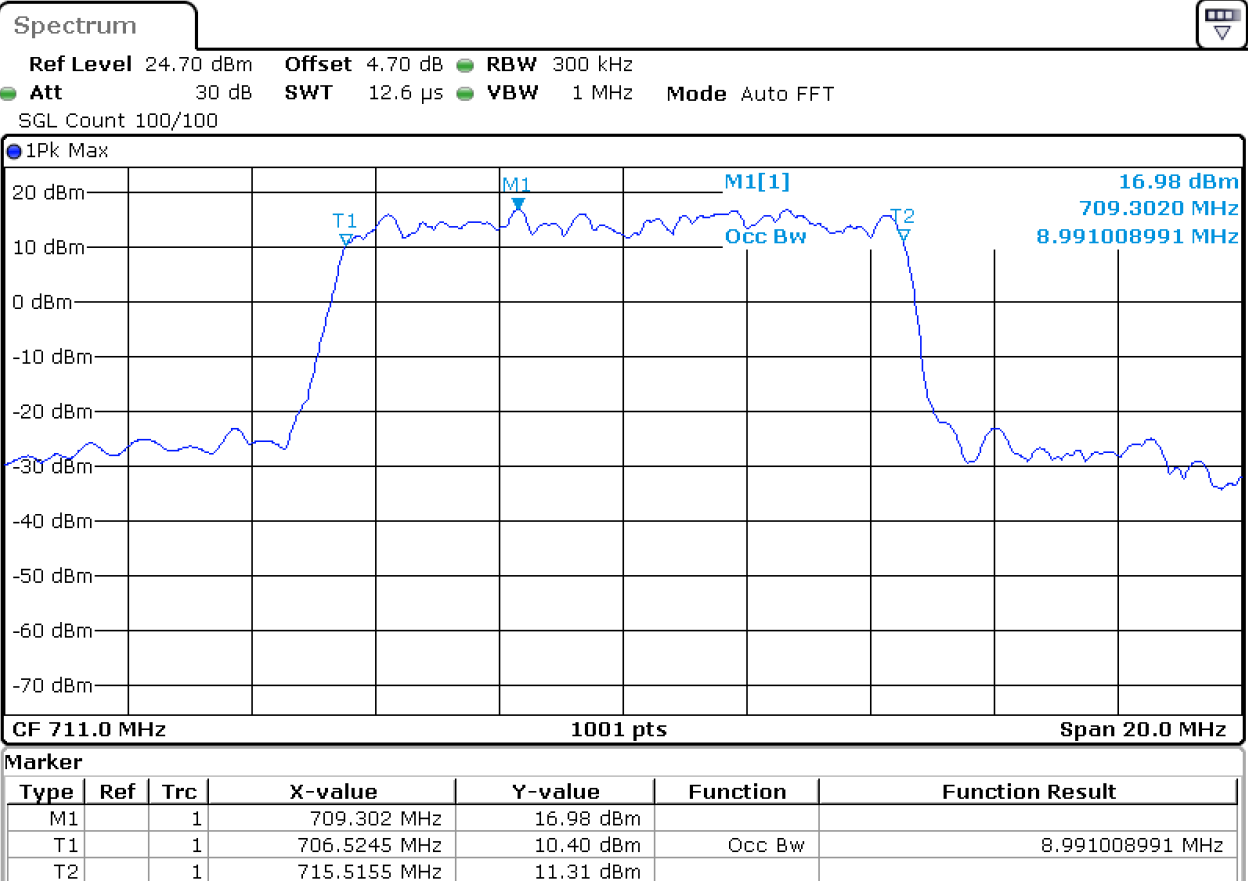
Date: 28.DEC.2021 04:59:57

Highest Channel / 10MHz / 16QAM



Date: 28.DEC.2021 05:00:39

Highest Channel / 10MHz / 64QAM



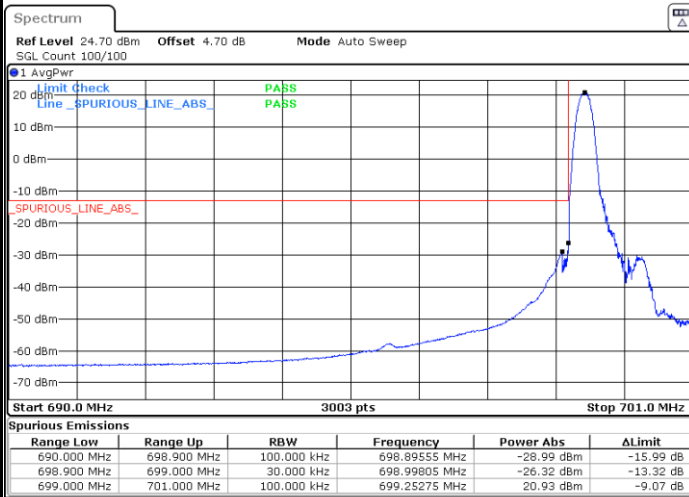
Date: 28.DEC.2021 05:01:22



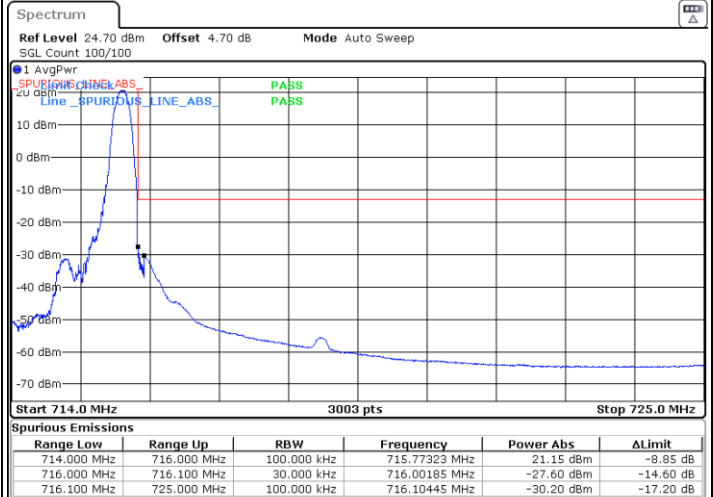
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

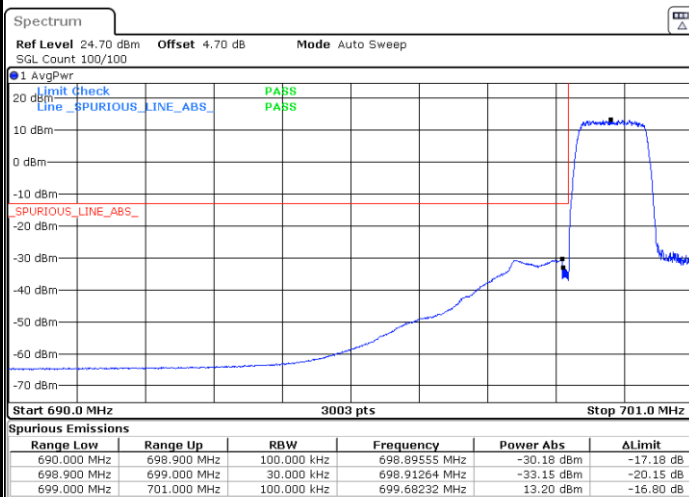
Lowest Band Edge / 1RB



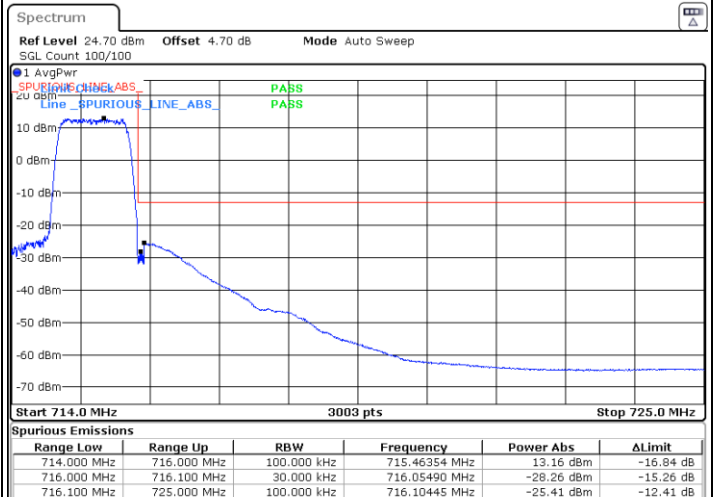
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



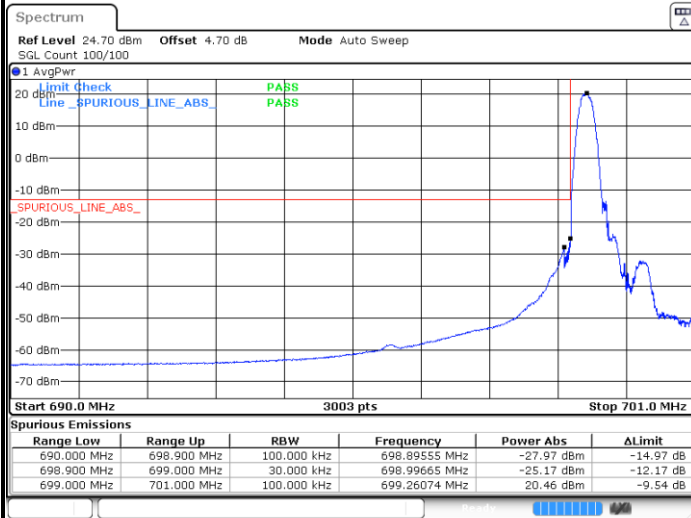
Highest Band Edge / Full RB



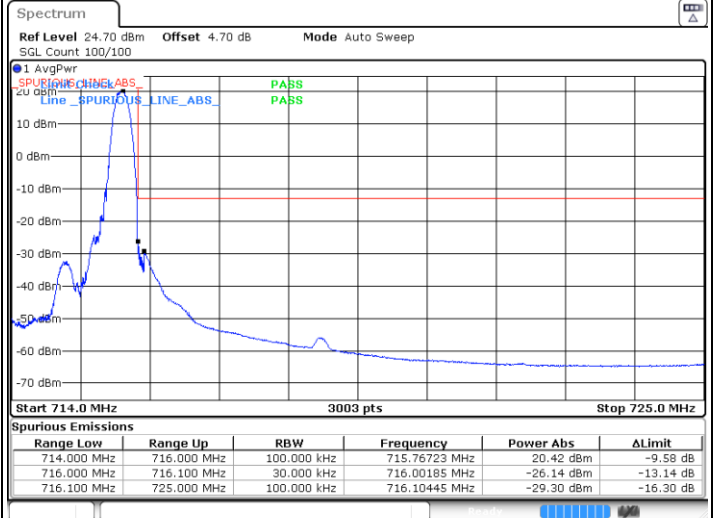


LTE Band 12 / 1.4MHz / 16QAM

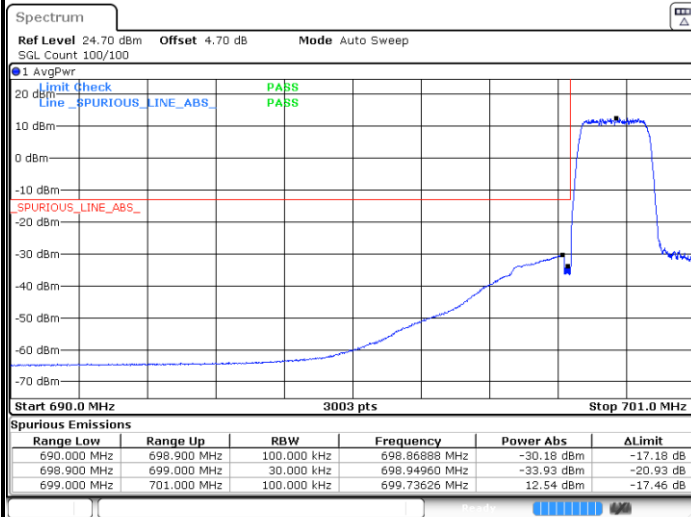
Lowest Band Edge / 1 RB



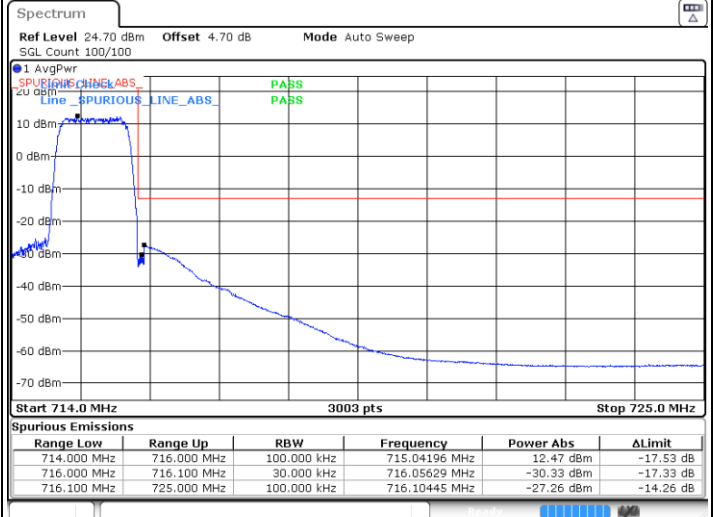
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



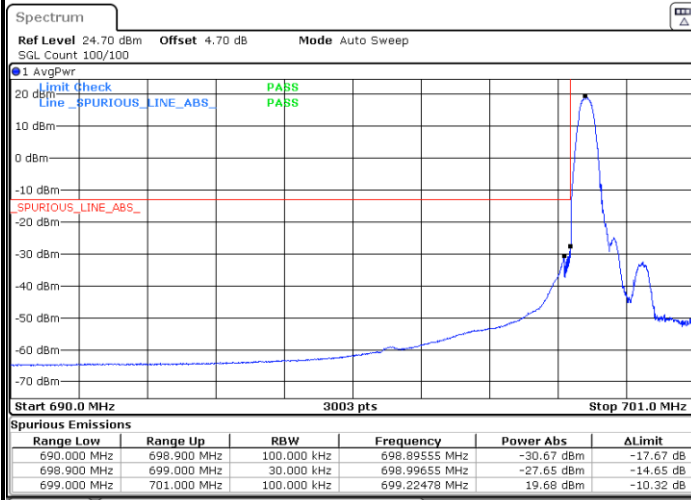
Highest Band Edge / Full RB



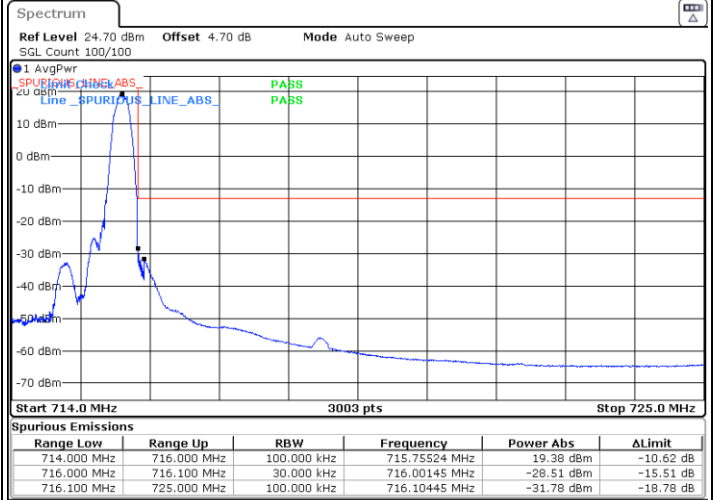


LTE Band 12 / 1.4MHz / 64QAM

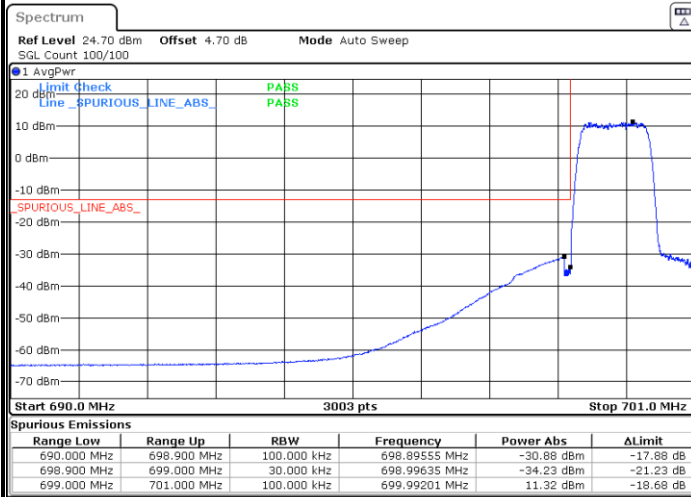
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

