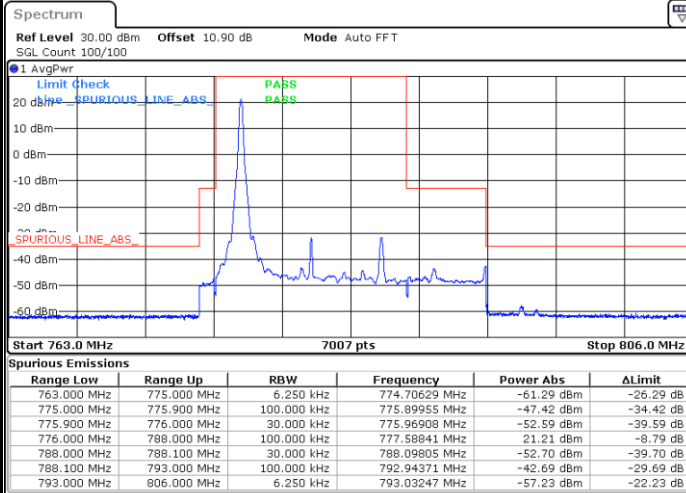




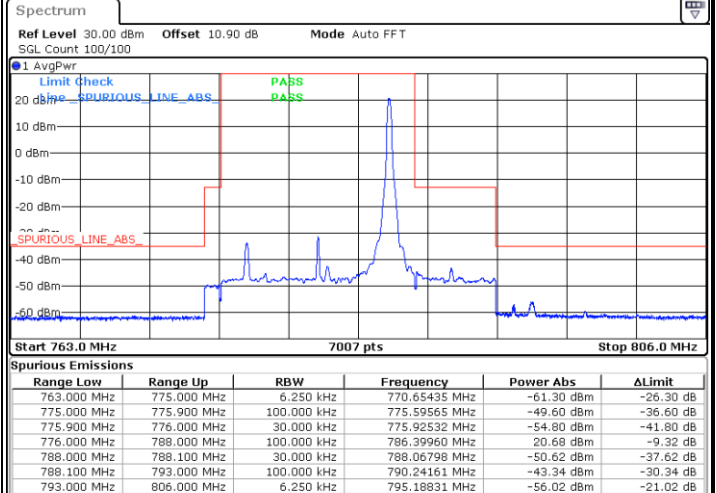
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



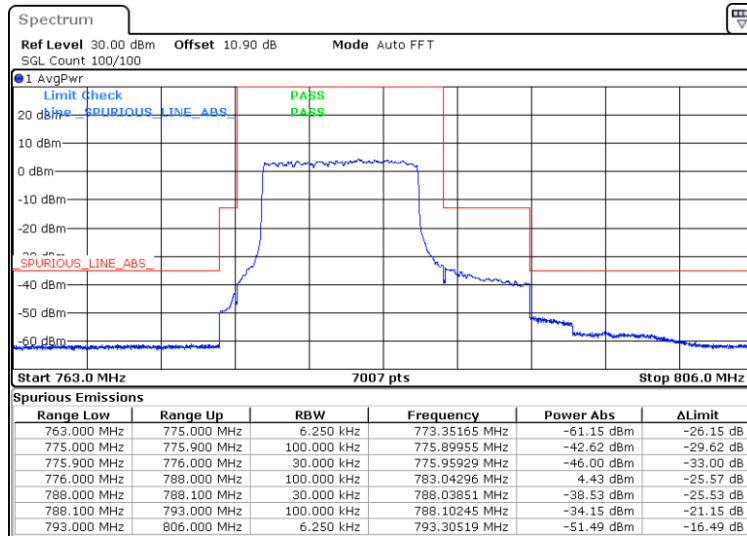
Date: 20 JUN 2021 15:57:50

Highest Band Edge / 1 RB



Date: 20 JUN 2021 15:59:40

Band Edge / Full RB

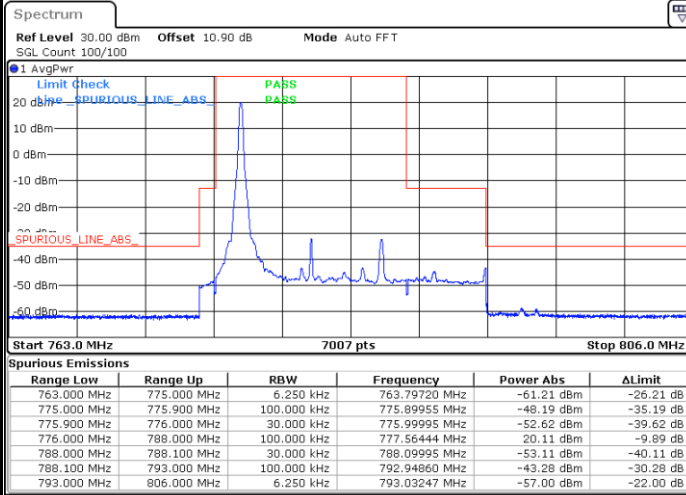


Date: 20 JUN 2021 15:52:18



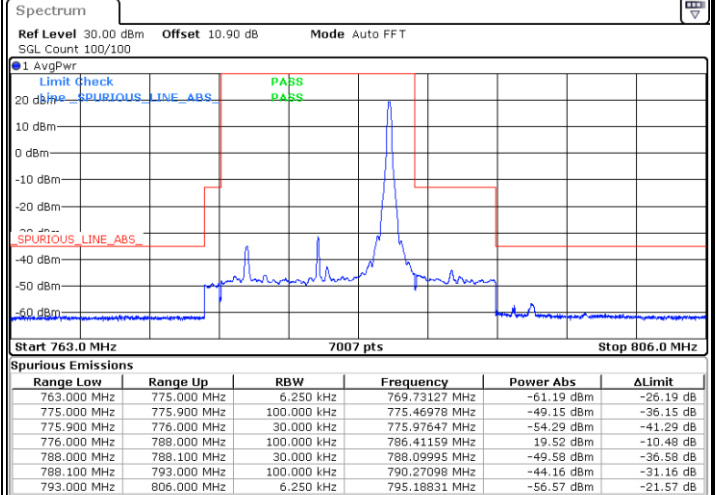
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



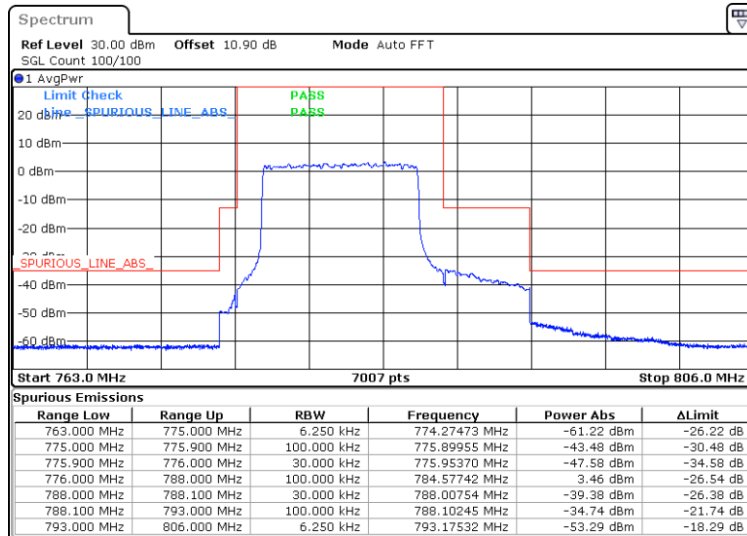
Date: 20 JUN 2021 15:55:59

Highest Band Edge / 1 RB



Date: 20 JUN 2021 16:01:31

Band Edge / Full RB

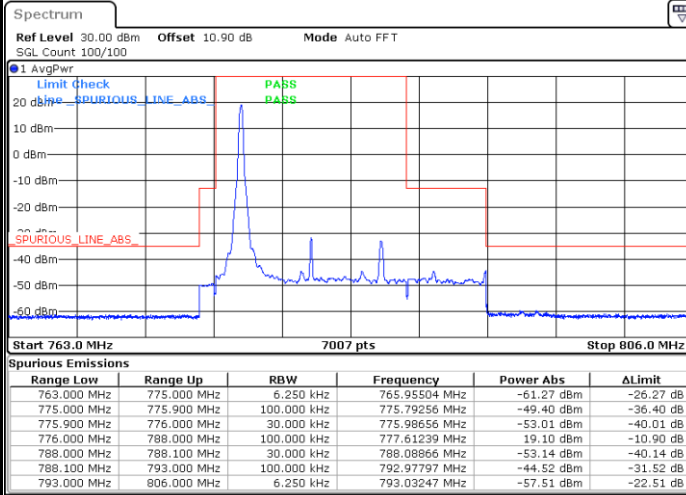


Date: 20 JUN 2021 15:54:08



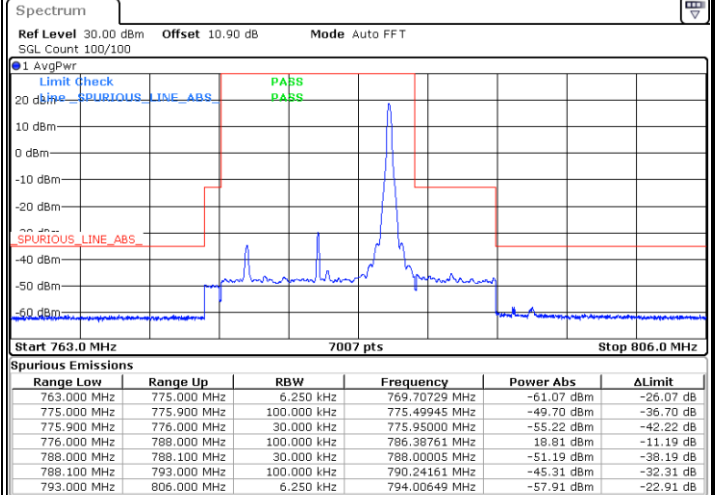
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



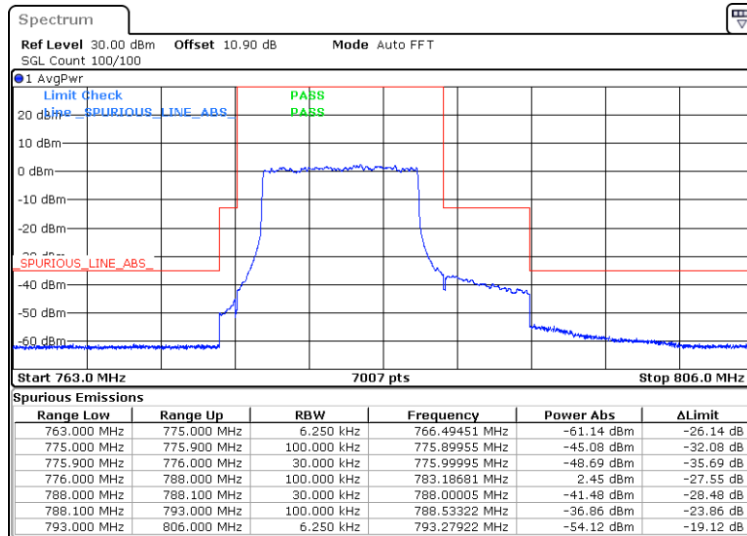
Date: 20 JUN 2021 16:06:29

Highest Band Edge / 1 RB



Date: 20 JUN 2021 16:08:19

Band Edge / Full RB

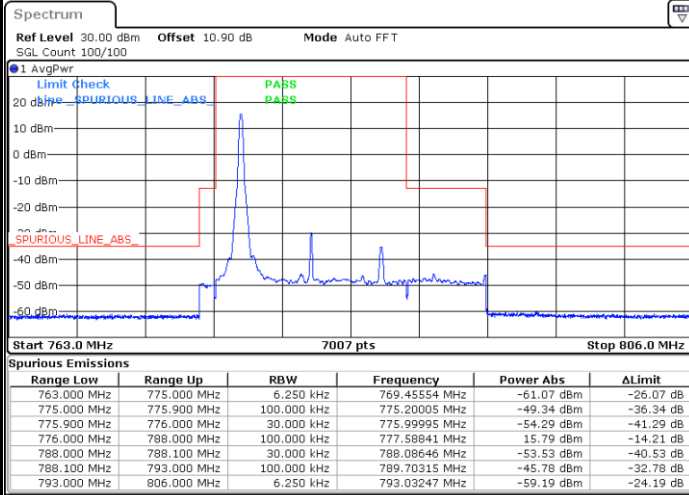


Date: 20 JUN 2021 16:04:39

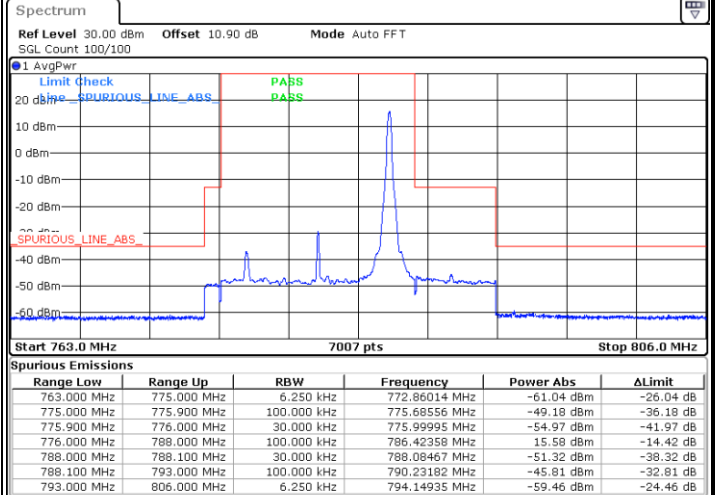


LTE Band 13 / 10MHz / 256QAM

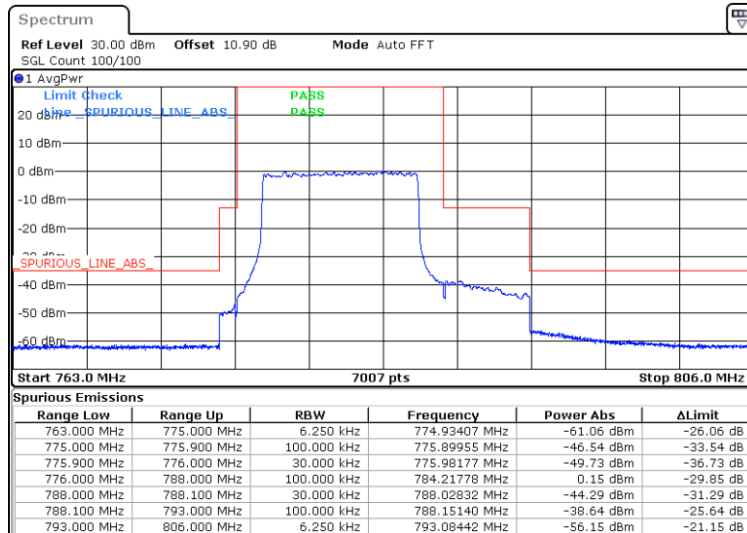
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

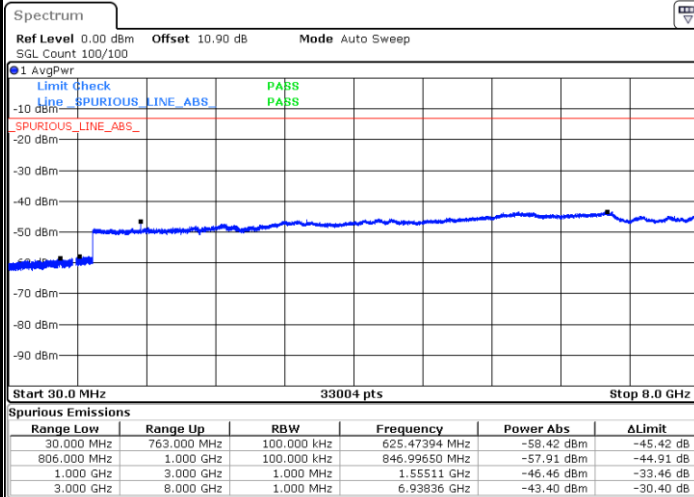




Conducted Spurious Emission

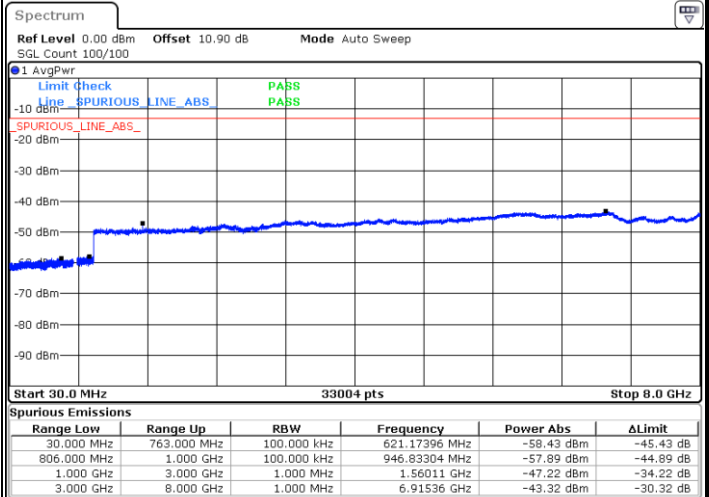
LTE Band 13 / 5MHz

Lowest Channel / QPSK



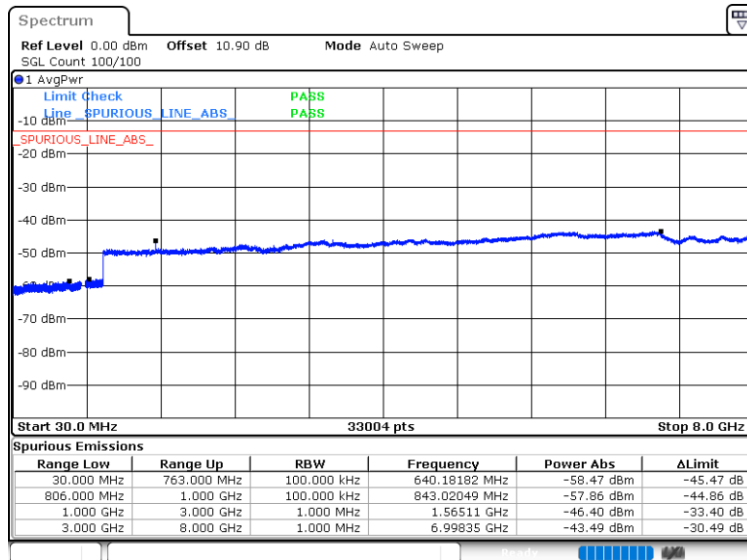
Date: 20.JUN.2021 15:29:20

Middle Channel / QPSK



Date: 20.JUN.2021 15:29:56

Highest Channel / QPSK

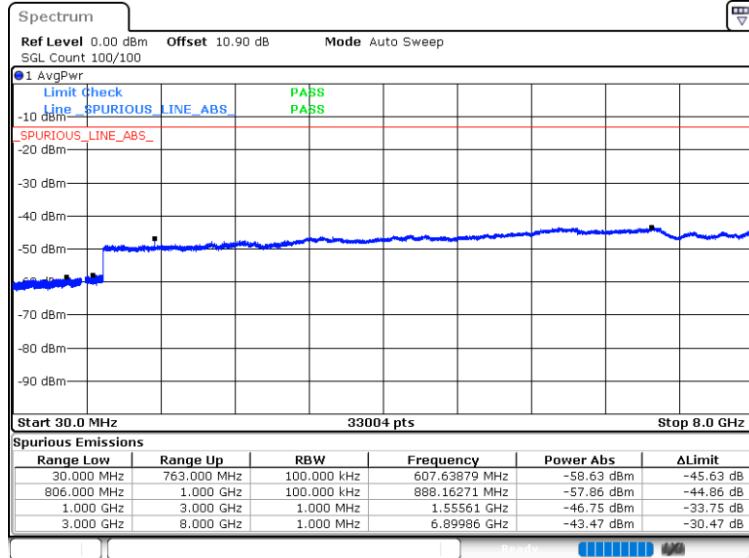


Date: 20.JUN.2021 15:40:25



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 20 JUN 2021 16:02:05

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	0.0160	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0180	
-20	Normal Voltage	0.0189	
-30	Normal Voltage	0.0121	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

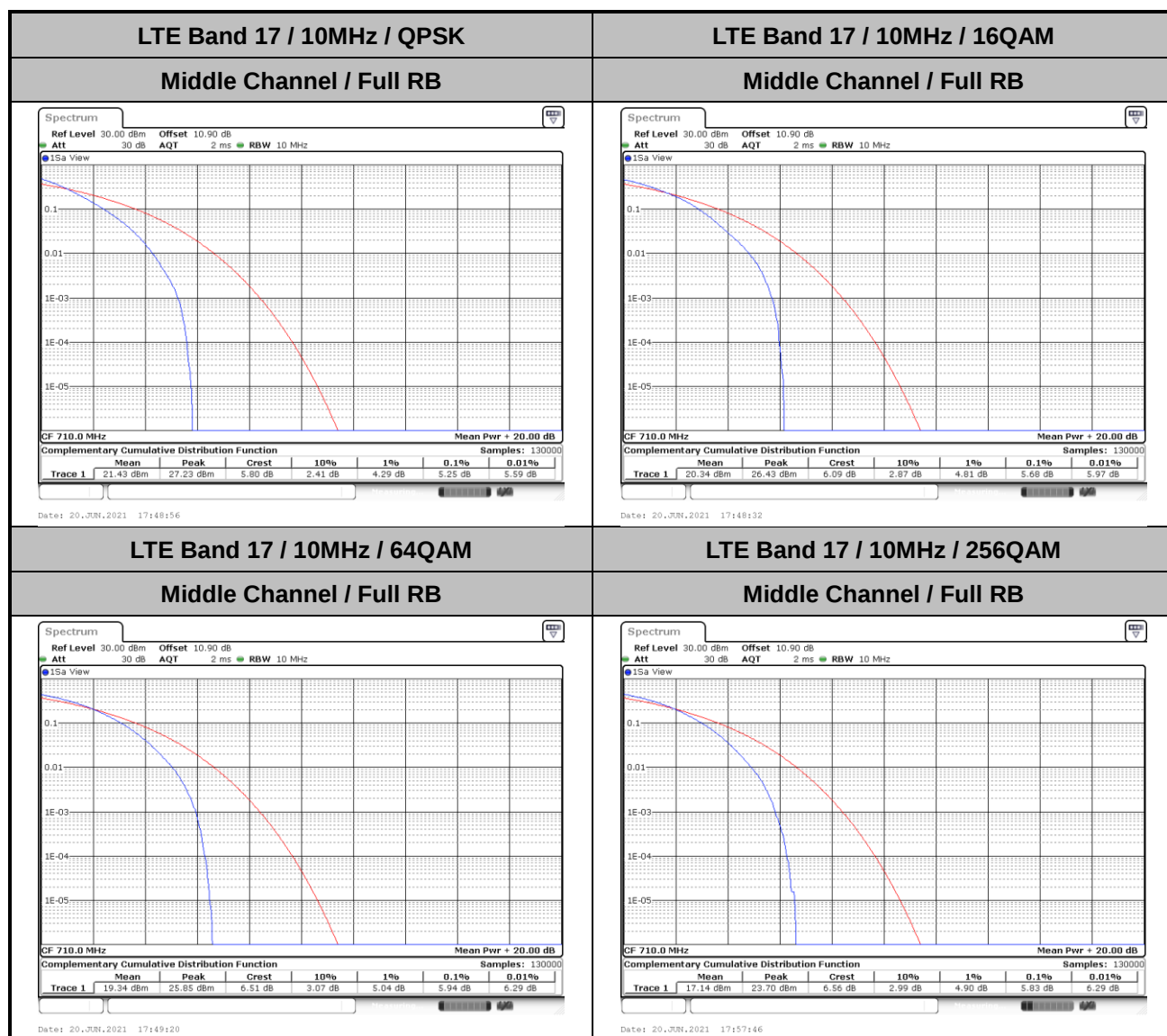
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.25	5.68	5.94	5.83	PASS



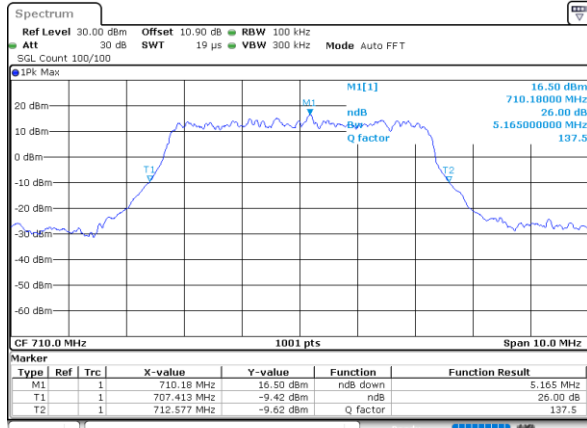
**26dB Bandwidth**

Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.17	5.08	10.15	9.99	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	5.28	5.06	9.95	10.01	-	-	-	-



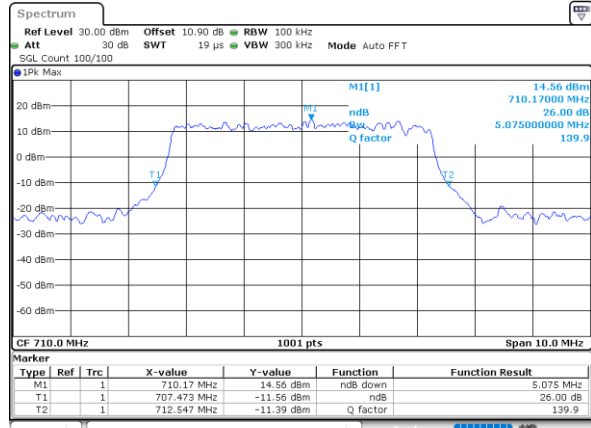
LTE Band 17

Middle Channel / 5MHz / QPSK



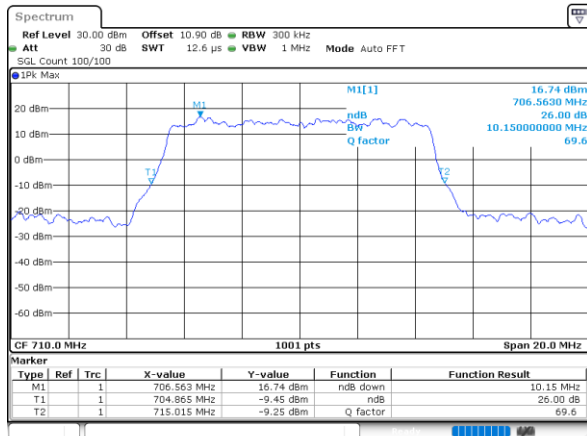
Date: 20 JUN 2021 17:20:14

Middle Channel / 5MHz / 16QAM



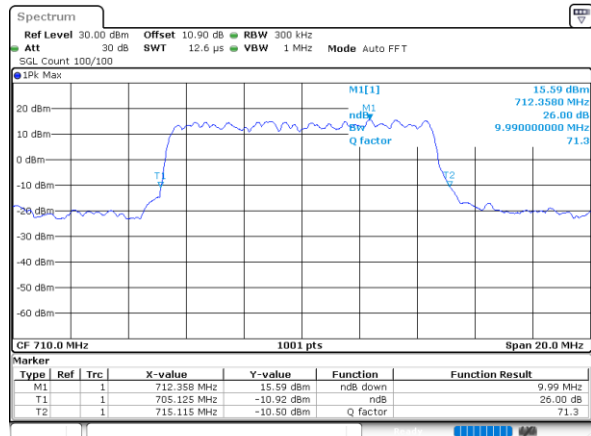
Date: 20 JUN 2021 17:20:55

Middle Channel / 10MHz / QPSK



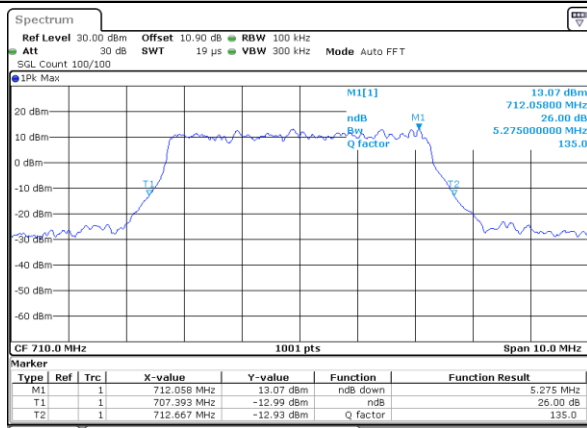
Date: 20 JUN 2021 17:32:52

Middle Channel / 10MHz / 16QAM



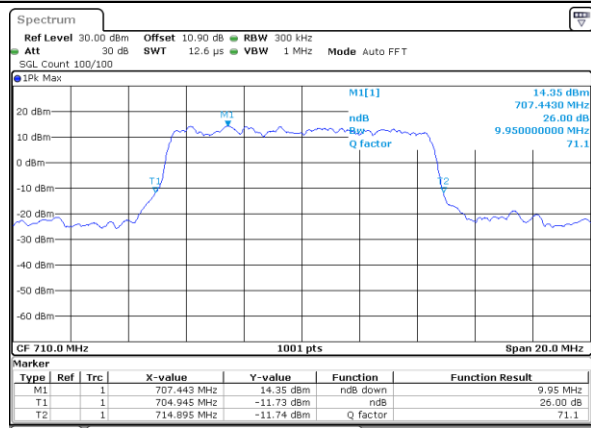
Date: 20 JUN 2021 17:33:13

Middle Channel / 5MHz / 64QAM



Date: 20 JUN 2021 17:41:08

Middle Channel / 10MHz / 64QAM

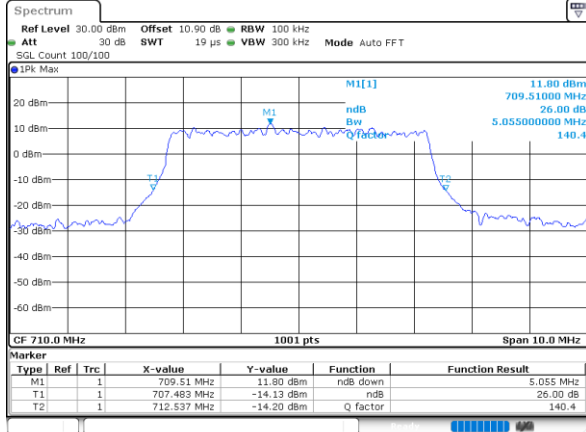


Date: 20 JUN 2021 17:46:12



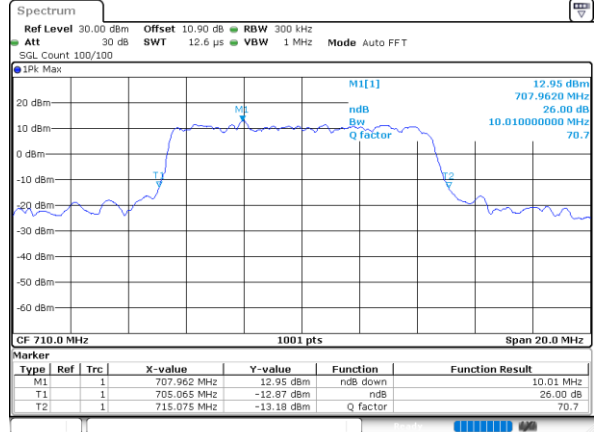
LTE Band 17

Middle Channel / 5MHz / 256QAM



Date: 20 JUN 2021 18:03:20

Middle Channel / 10MHz / 256QAM



Date: 20 JUN 2021 17:53:33

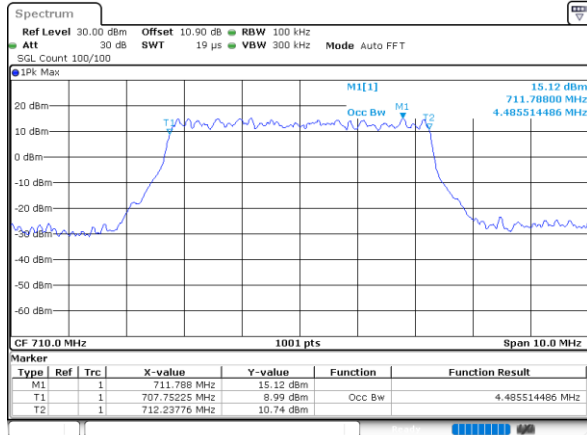
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.49	4.51	9.09	9.07	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.50	4.52	9.07	9.01	-	-	-	-



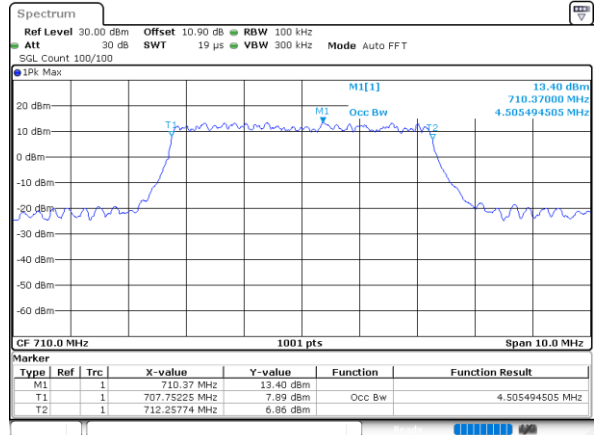
LTE Band 17

Middle Channel / 5MHz / QPSK



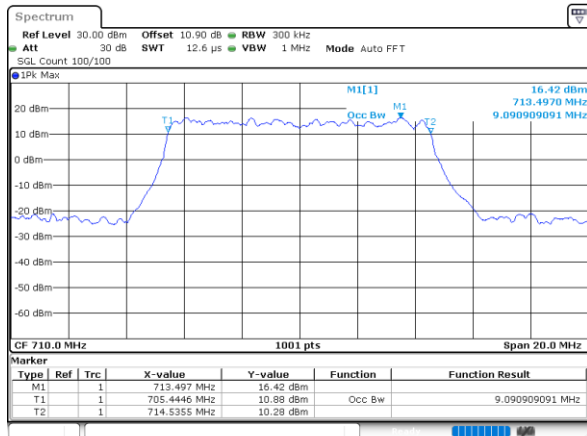
Date: 20 JUN 2021 17:19:50

Middle Channel / 5MHz / 16QAM



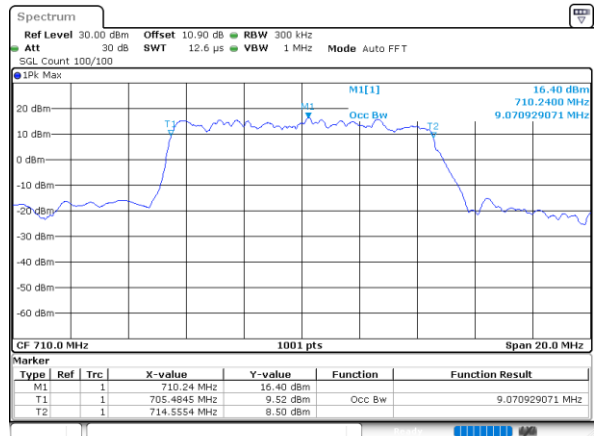
Date: 20 JUN 2021 17:20:12

Middle Channel / 10MHz / QPSK



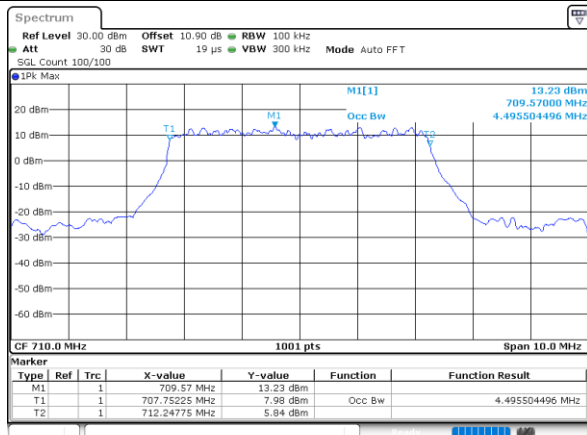
Date: 20 JUN 2021 17:32:07

Middle Channel / 10MHz / 16QAM



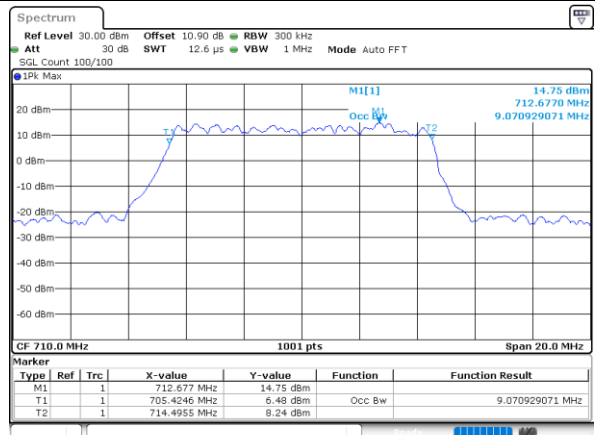
Date: 20 JUN 2021 17:32:30

Middle Channel / 5MHz / 64QAM



Date: 20 JUN 2021 17:40:46

Middle Channel / 10MHz / 64QAM

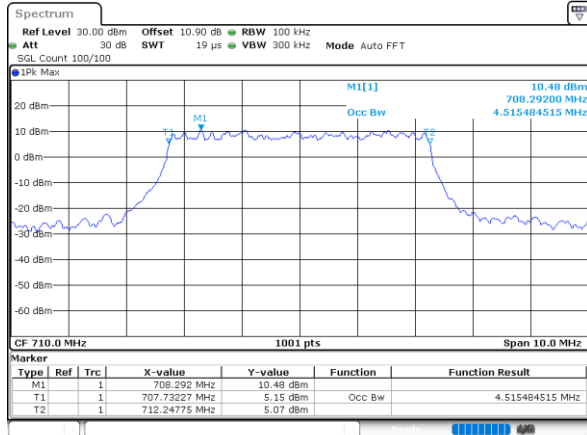


Date: 20 JUN 2021 17:45:49



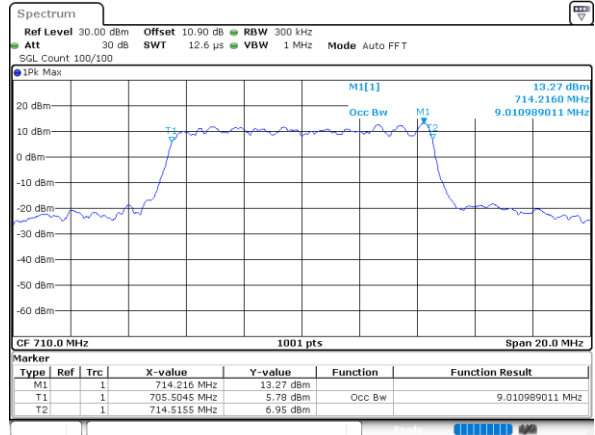
LTE Band 17

Middle Channel / 5MHz / 256QAM



Date: 20 JUN 2021 18:02:57

Middle Channel / 10MHz / 256QAM



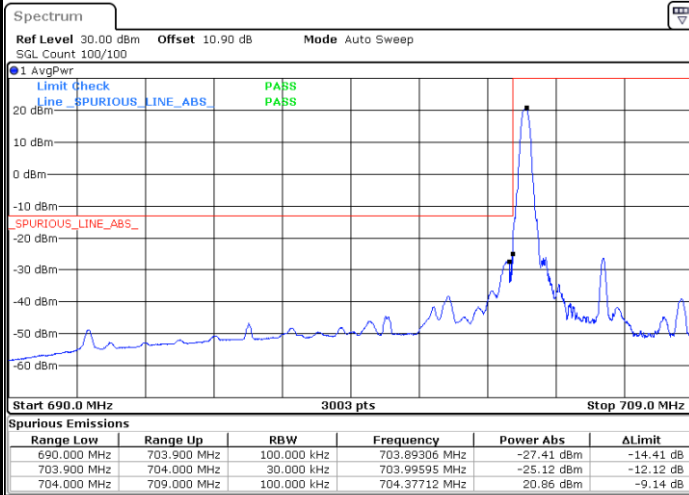
Date: 20 JUN 2021 17:53:11



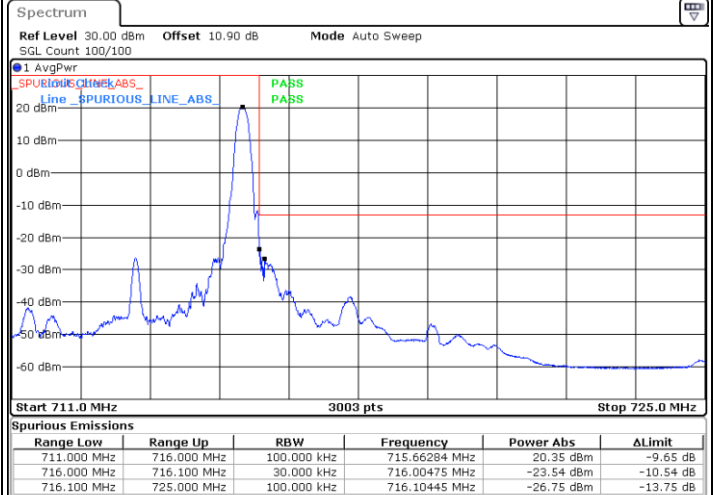
Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

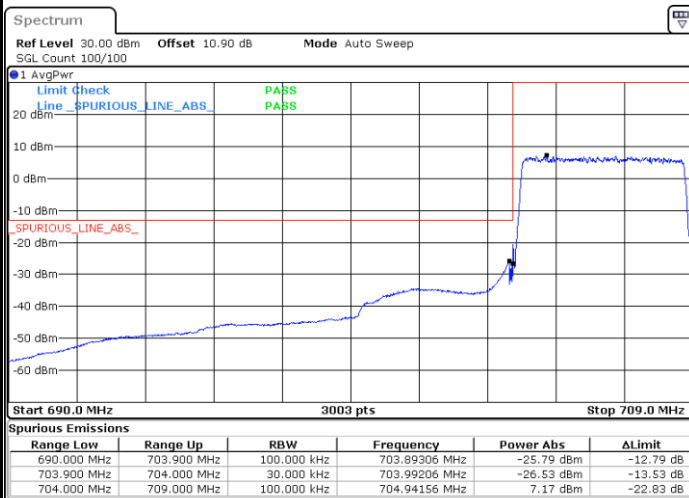
Lowest Band Edge / 1 RB



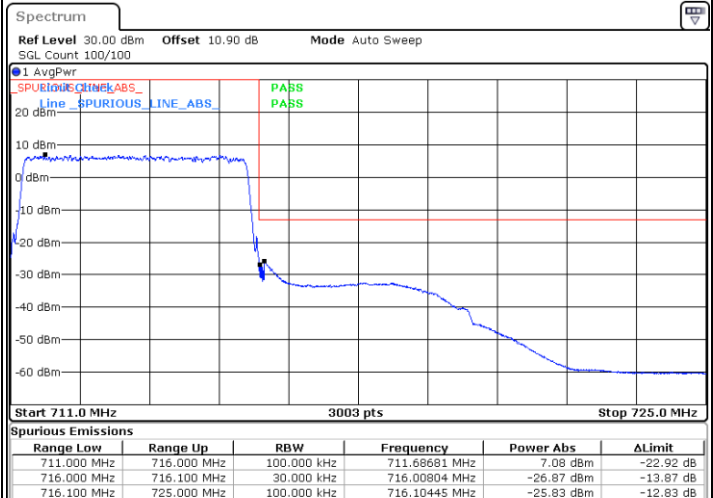
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



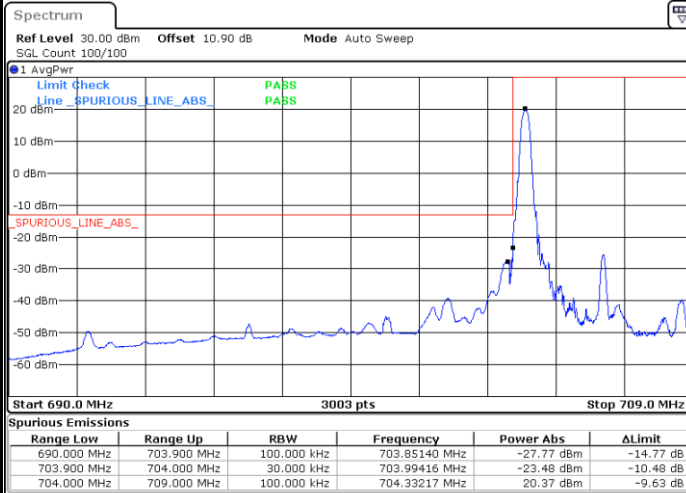
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 16QAM

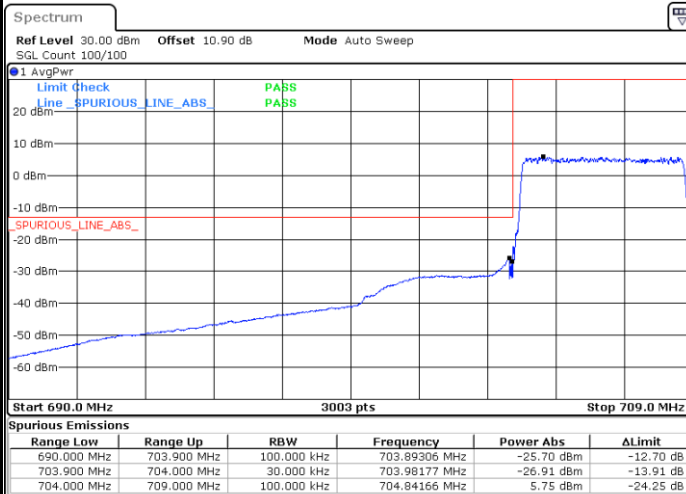
Lowest Band Edge / 1 RB



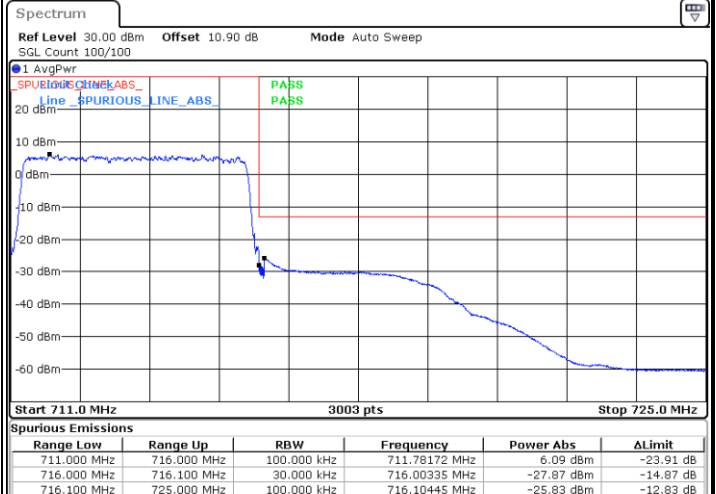
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



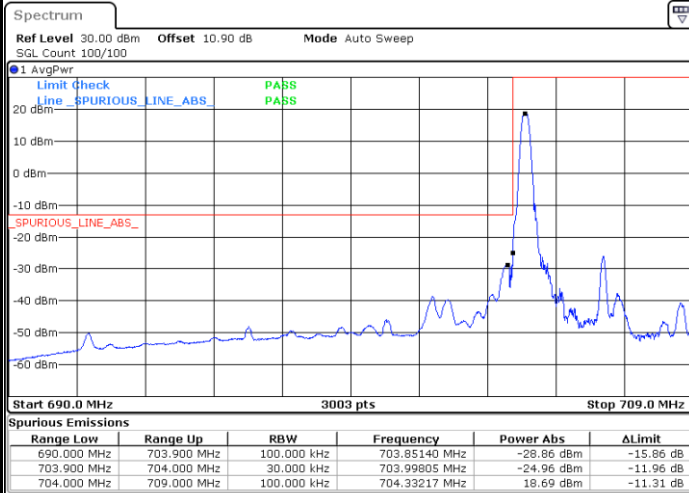
Highest Band Edge / Full RB



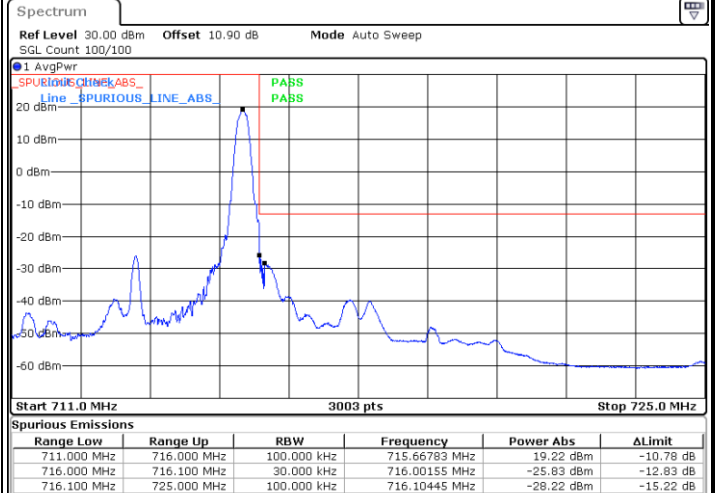


LTE Band 17 / 5MHz / 64QAM

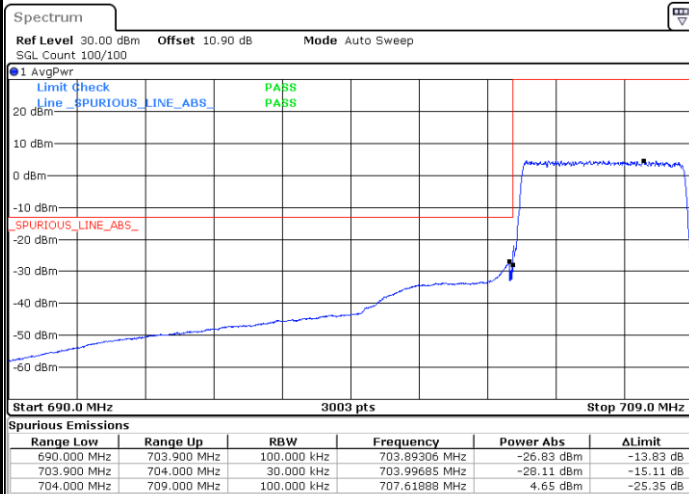
Lowest Band Edge / 1 RB



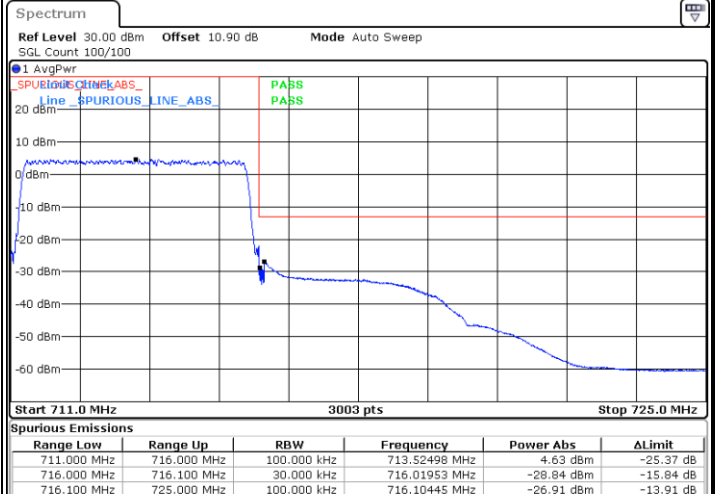
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



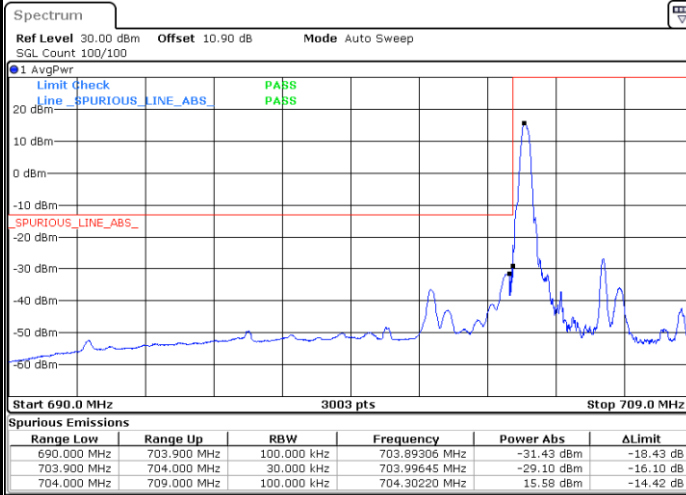
Highest Band Edge / Full RB



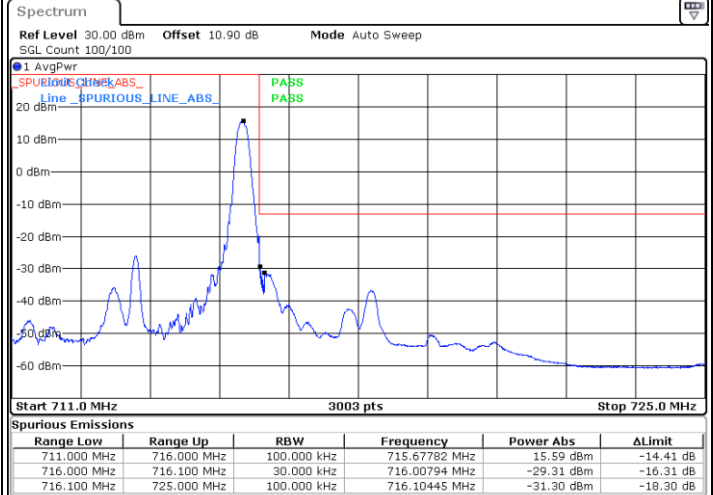


LTE Band 17 / 5MHz / 256QAM

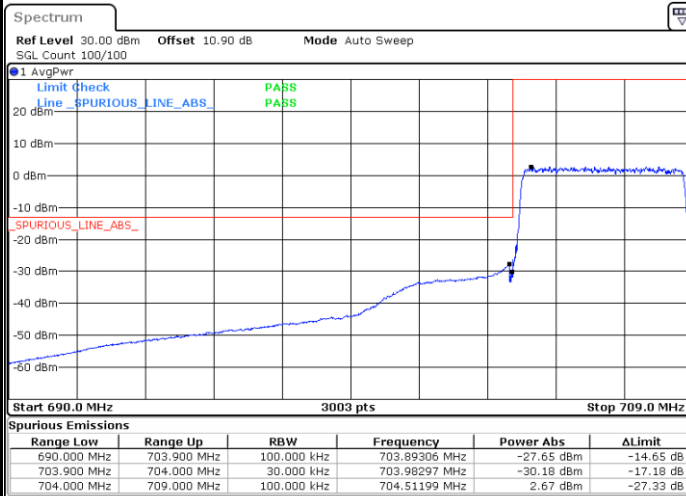
Lowest Band Edge / 1 RB



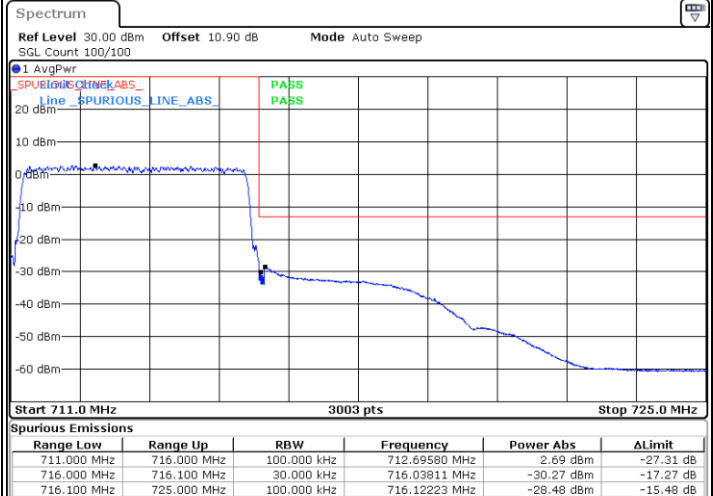
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



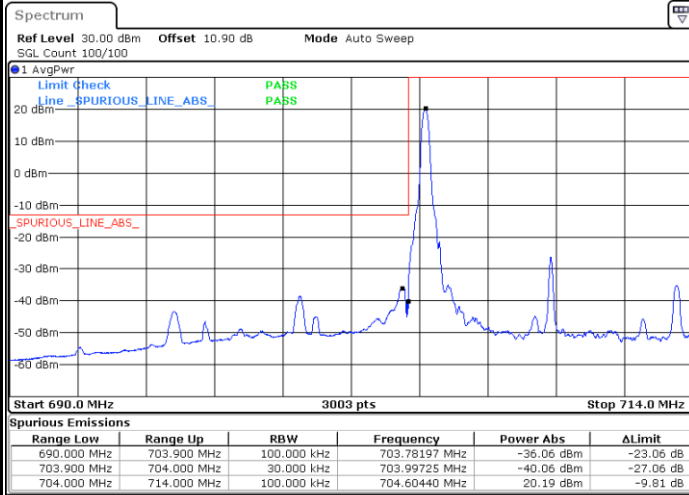
Highest Band Edge / Full RB



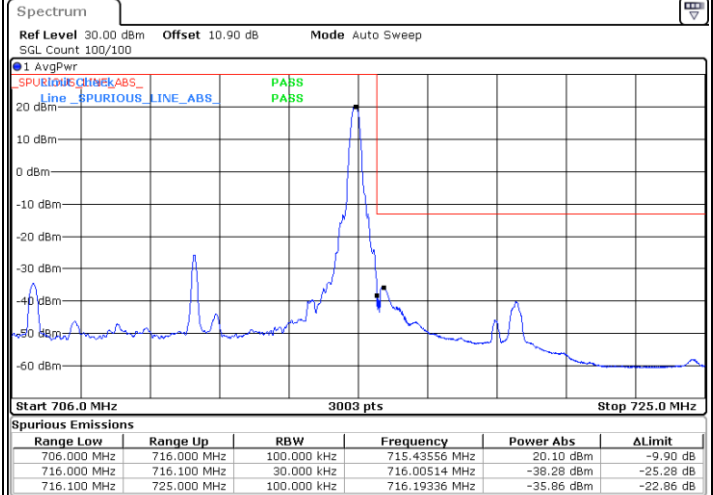


LTE Band 17 / 10MHz / QPSK

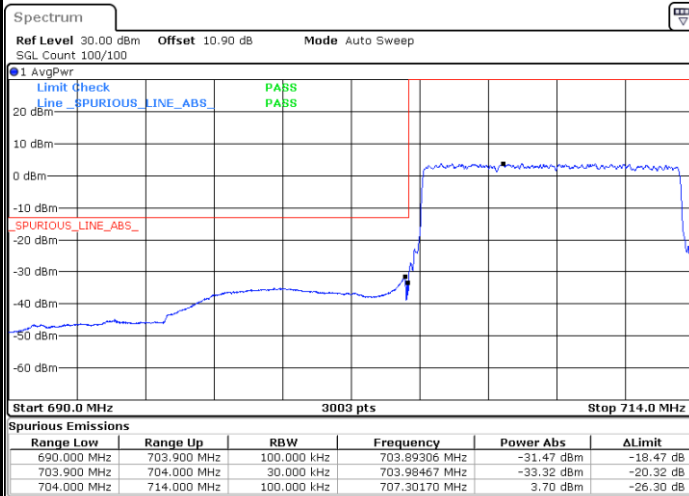
Lowest Band Edge / 1 RB



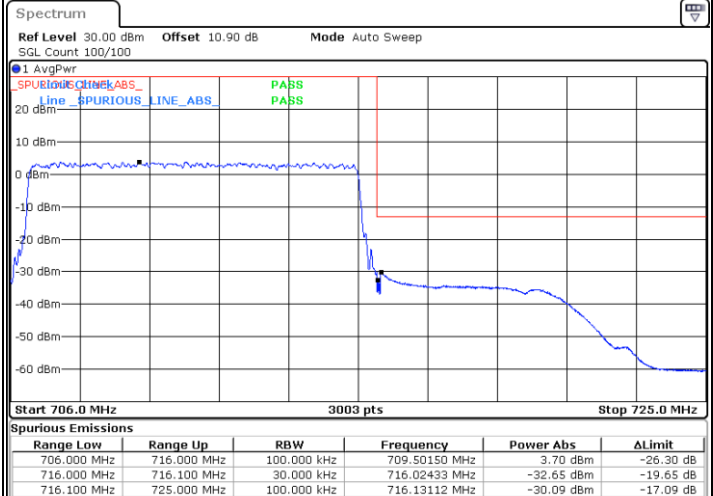
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



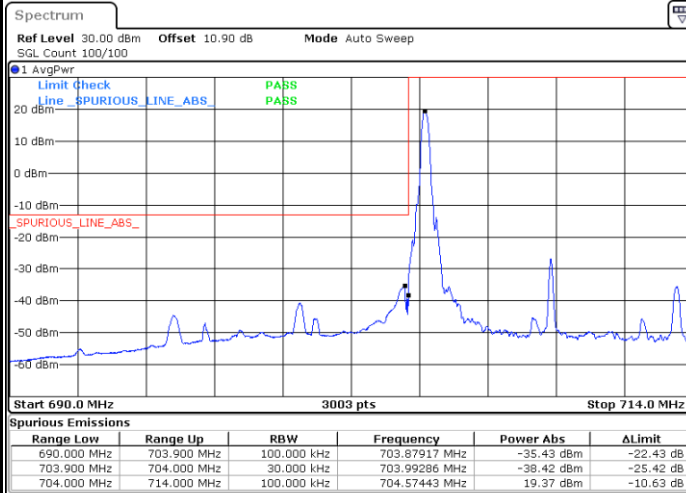
Highest Band Edge / Full RB



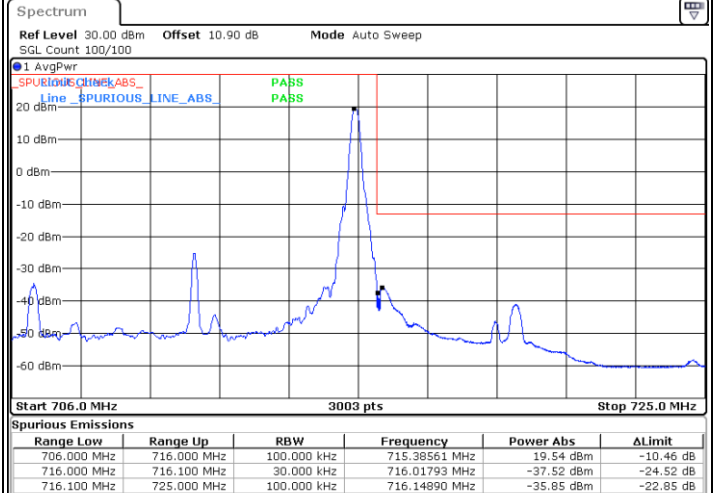


LTE Band 17 / 10MHz / 16QAM

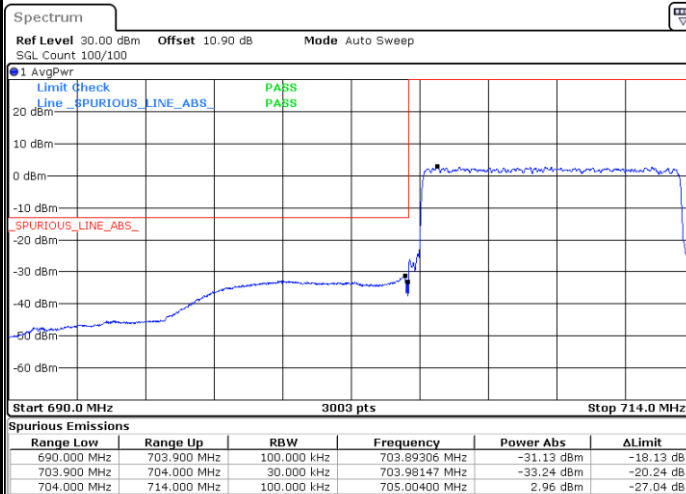
Lowest Band Edge / 1 RB



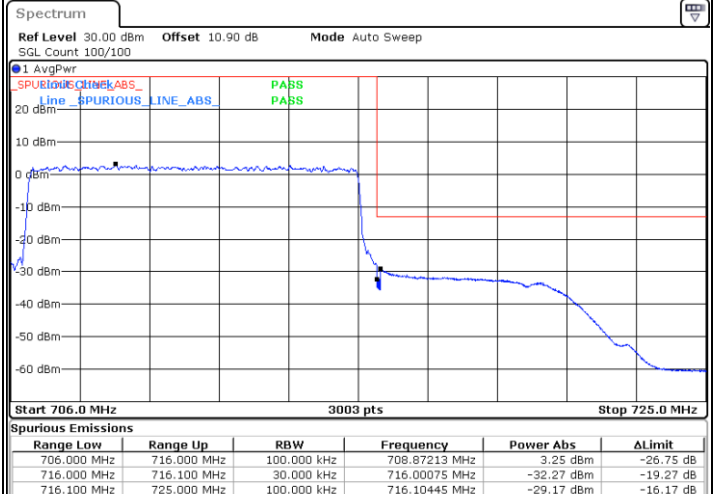
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



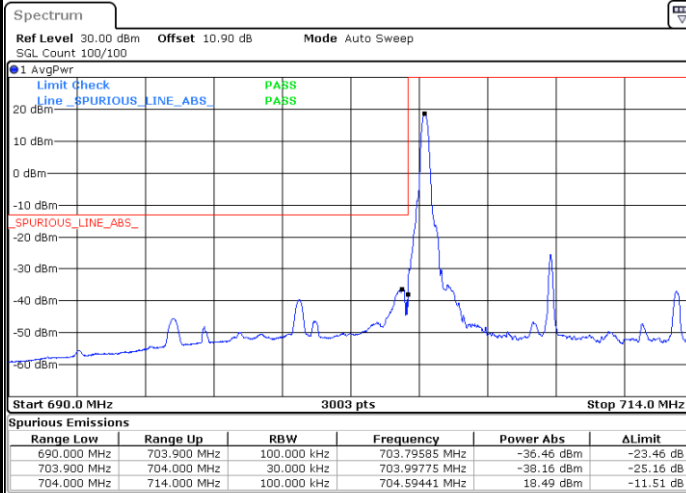
Highest Band Edge / Full RB



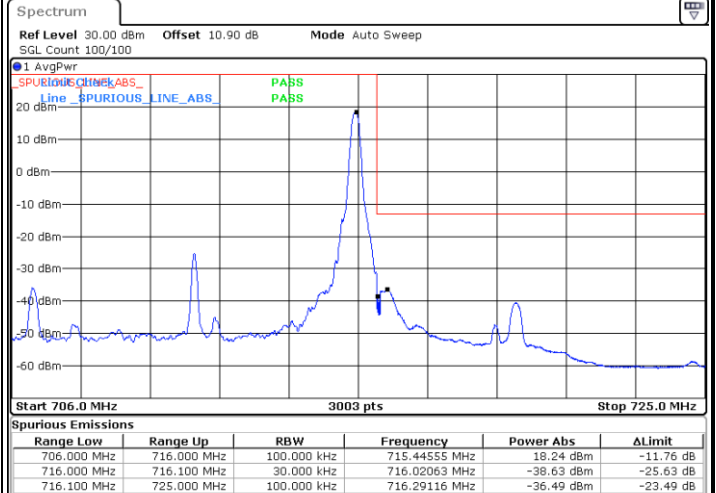


LTE Band 17 / 10MHz / 64QAM

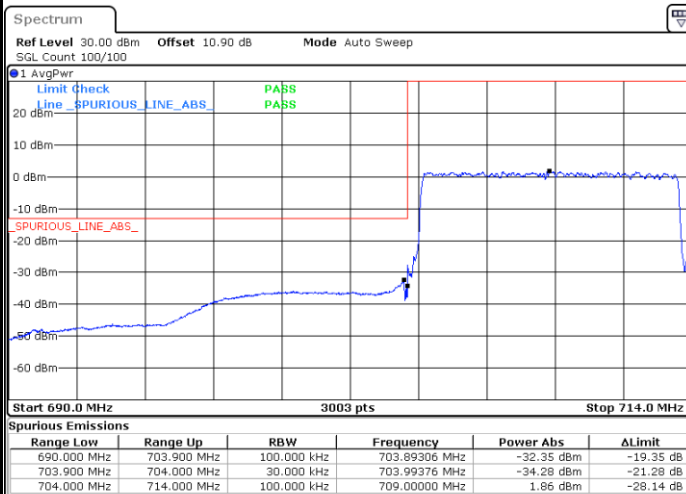
Lowest Band Edge / 1 RB



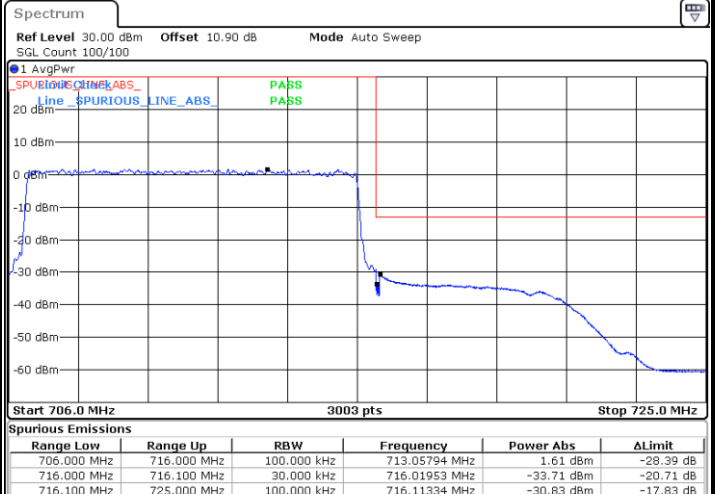
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



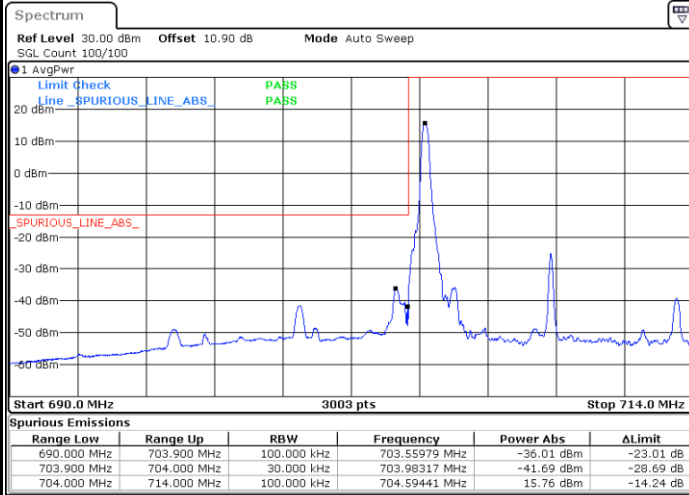
Highest Band Edge / Full RB



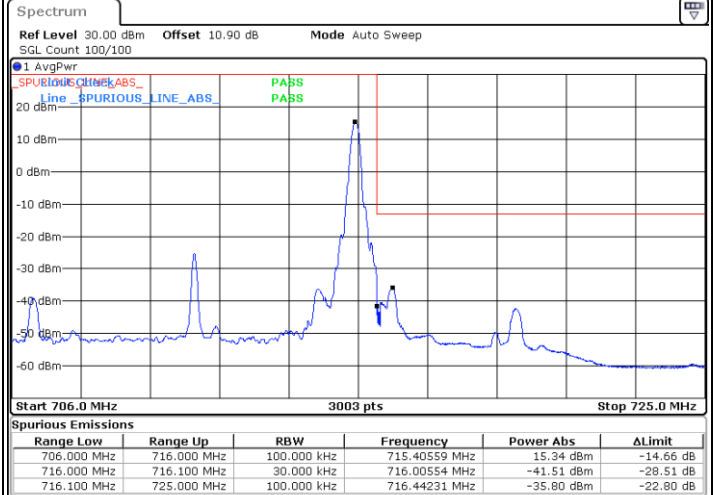


LTE Band 17 / 10MHz / 256QAM

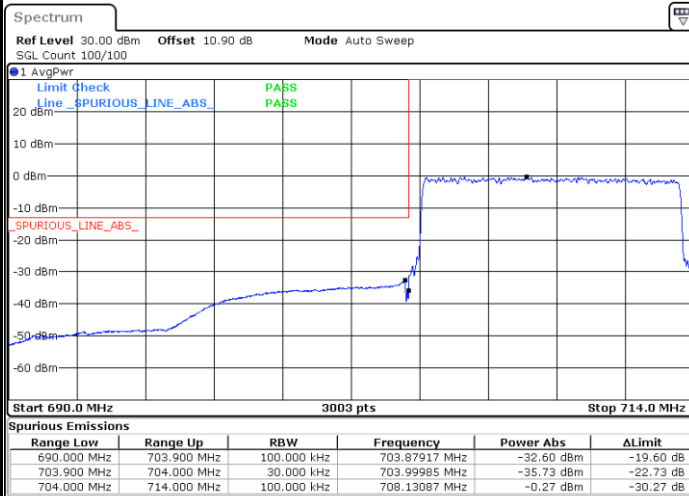
Lowest Band Edge / 1 RB



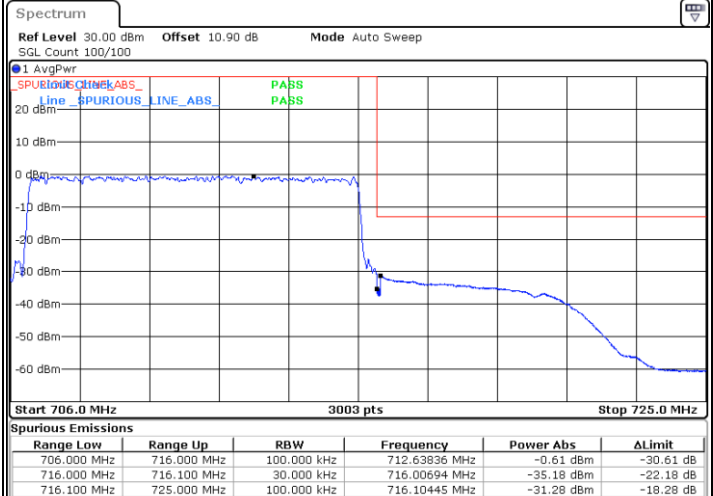
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

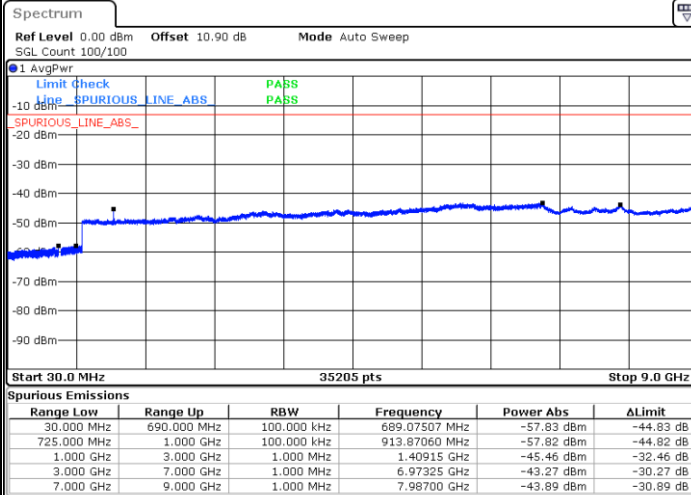




Conducted Spurious Emission

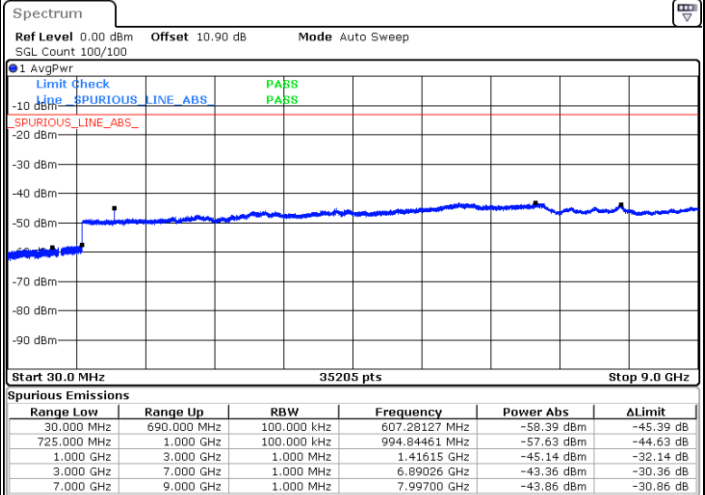
LTE Band 17 / 5MHz

Lowest Channel / QPSK



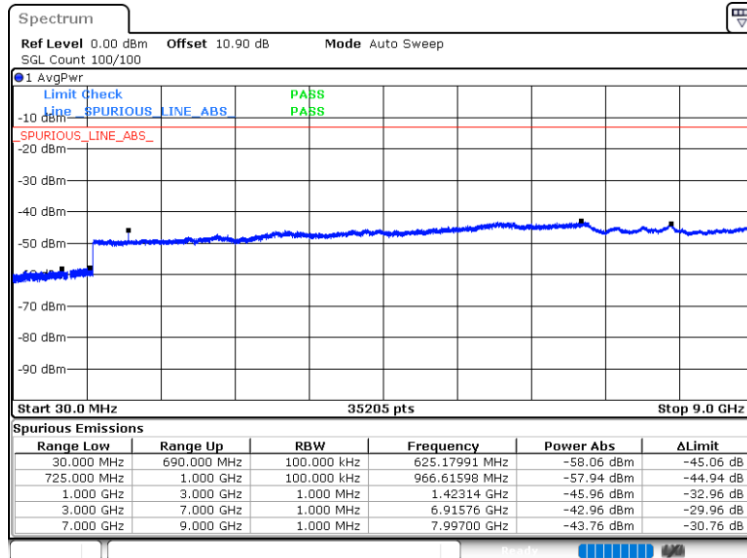
Date: 20.JUN.2021 17:19:28

Middle Channel / QPSK



Date: 20.JUN.2021 17:21:30

Highest Channel / QPSK

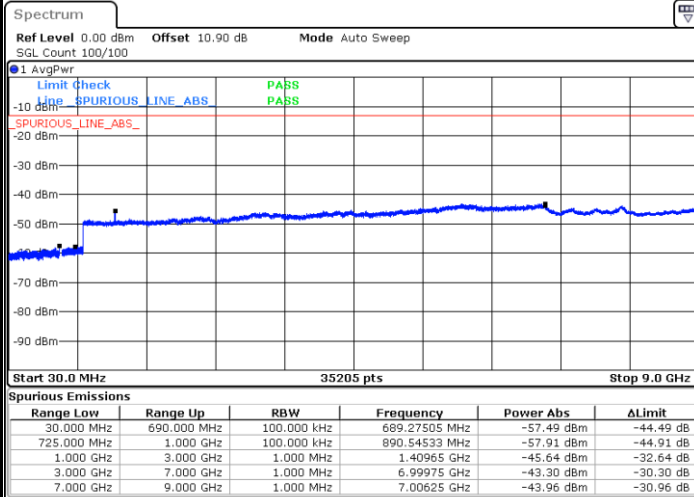


Date: 20.JUN.2021 17:26:03



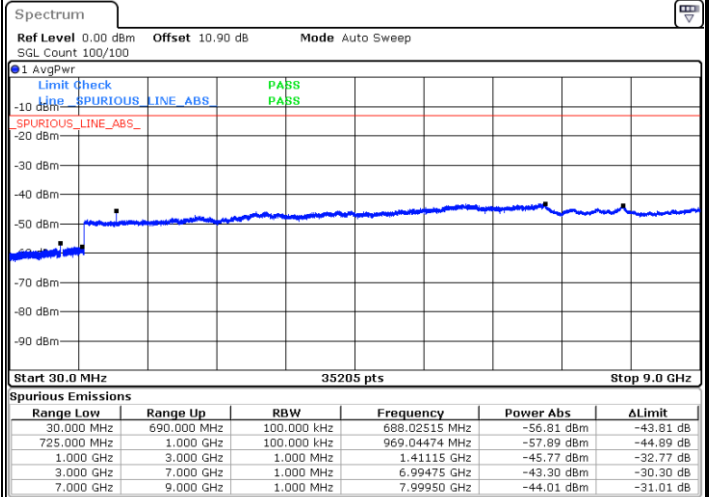
LTE Band 17 / 10MHz

Lowest Channel / QPSK



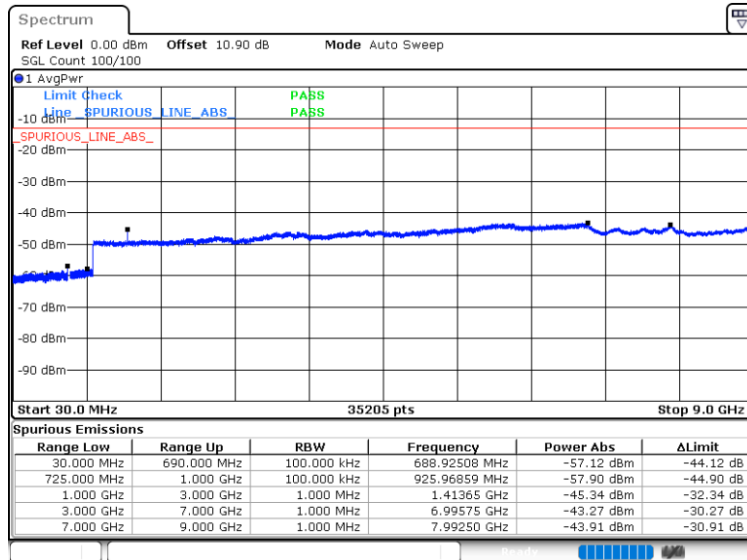
Date: 20.JUN.2021 17:31:45

Middle Channel / QPSK



Date: 20.JUN.2021 17:33:48

Highest Channel / QPSK



Date: 20.JUN.2021 17:38:21

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0141	
30	Normal Voltage	0.0068	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0155	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0085	
-30	Normal Voltage	0.0127	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

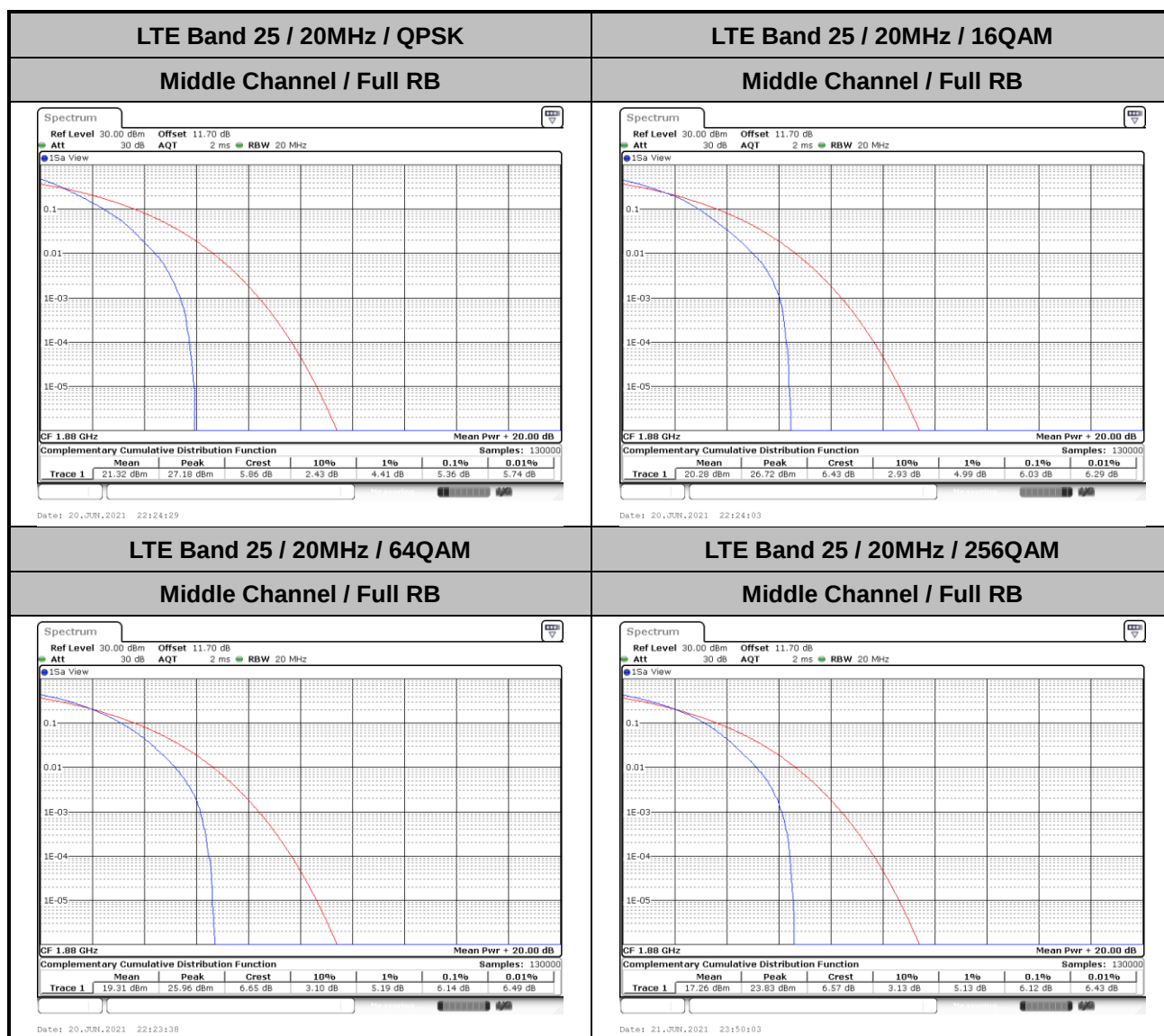
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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	5.36	6.03	6.14	6.12	PASS



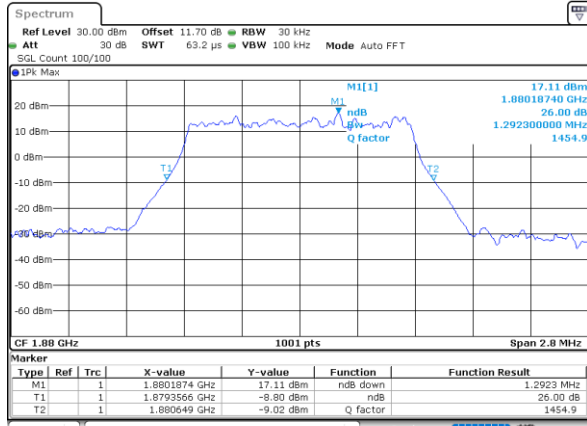
**26dB Bandwidth**

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	1.29	1.30	3.15	3.07	5.35	4.97	10.31	10.17	14.57	14.63	19.42	19.02
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.27	1.33	3.16	3.21	4.98	5.00	10.49	10.31	14.81	14.30	19.14	19.58

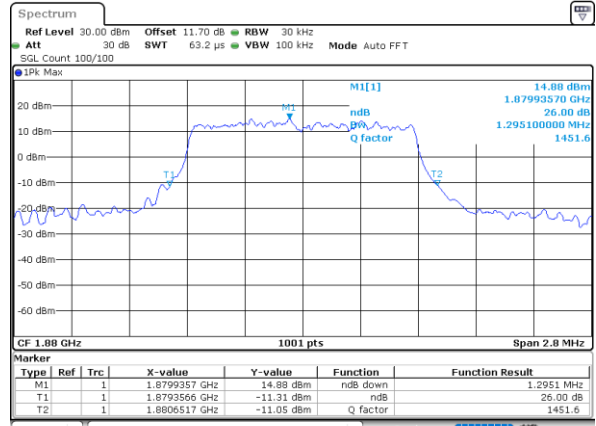


LTE Band 25

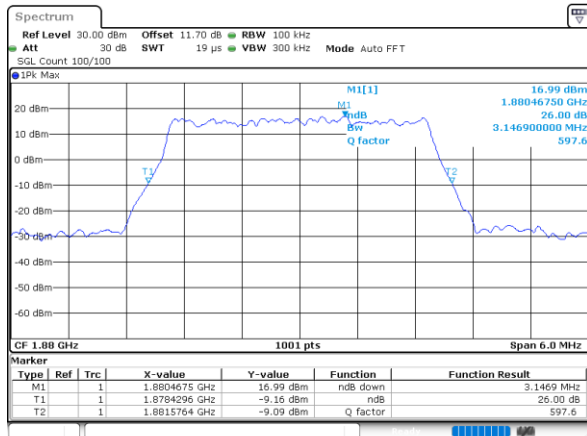
Middle Channel / 1.4MHz / QPSK



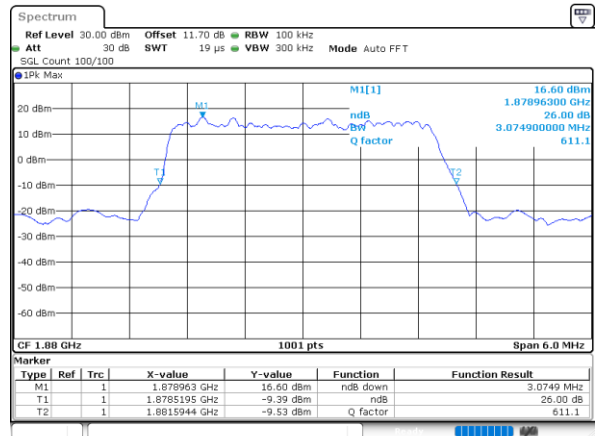
Middle Channel / 1.4MHz / 16QAM



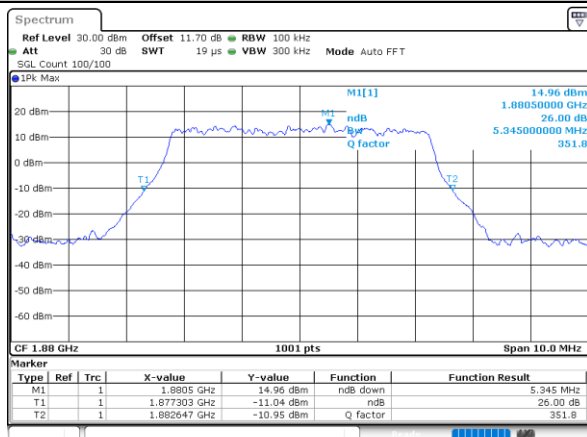
Middle Channel / 3MHz / QPSK



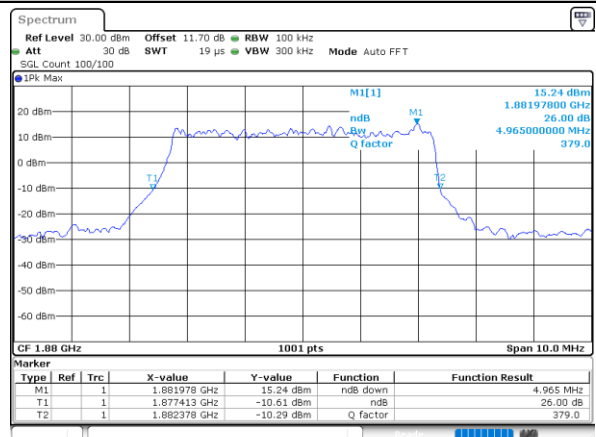
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



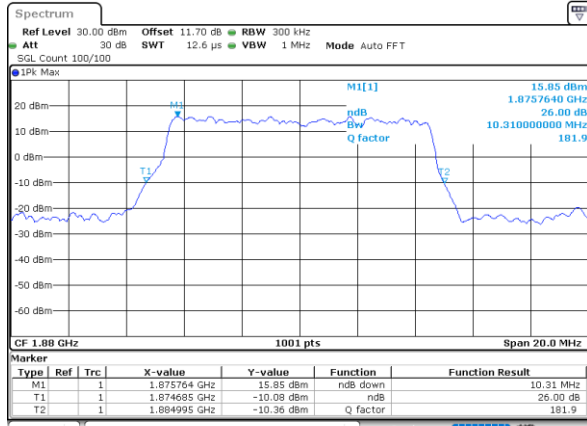
Middle Channel / 5MHz / 16QAM





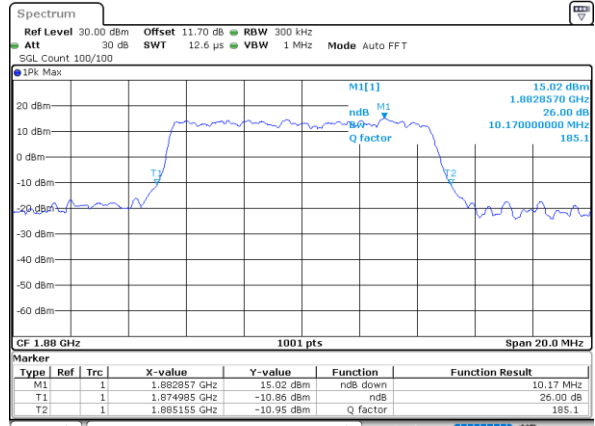
LTE Band 25

Middle Channel / 10MHz / QPSK



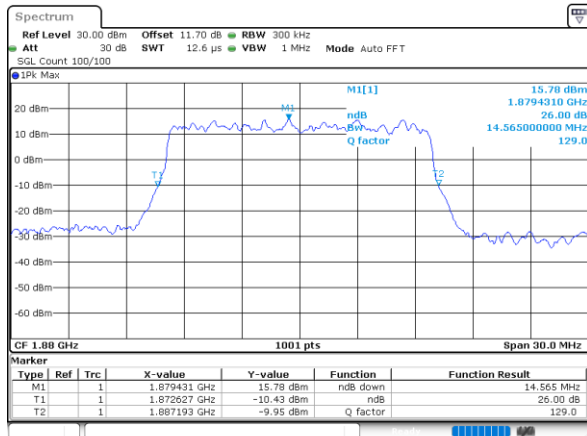
Date: 20 JUN 2021 21:16:05

Middle Channel / 10MHz / 16QAM



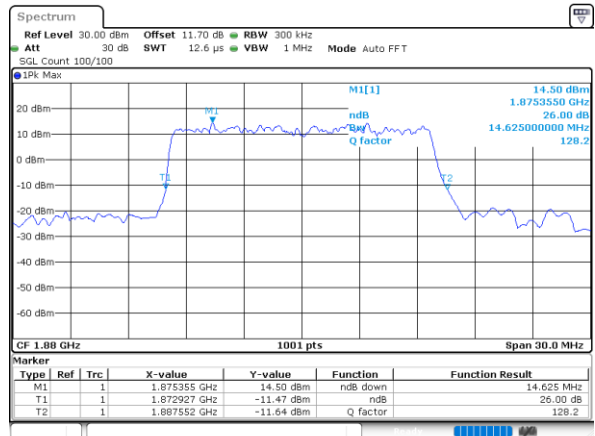
Date: 20 JUN 2021 21:16:12

Middle Channel / 15MHz / QPSK



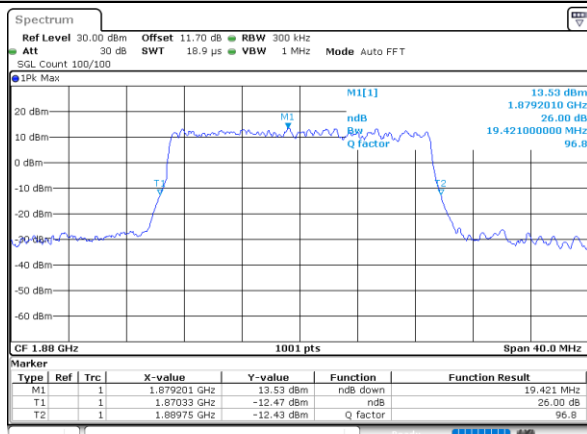
Date: 20 JUN 2021 22:08:44

Middle Channel / 15MHz / 16QAM



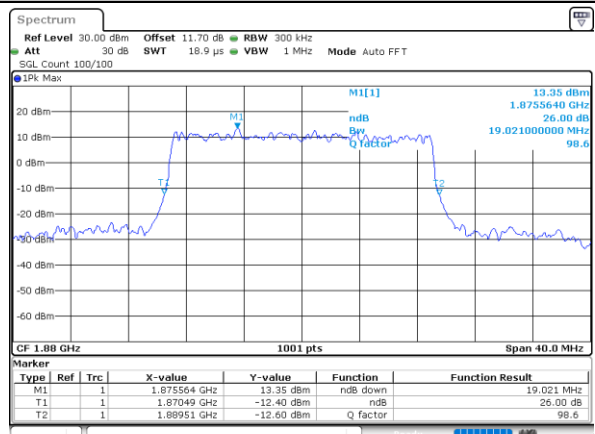
Date: 20 JUN 2021 22:09:06

Middle Channel / 20MHz / QPSK



Date: 20 JUN 2021 22:16:52

Middle Channel / 20MHz / 16QAM

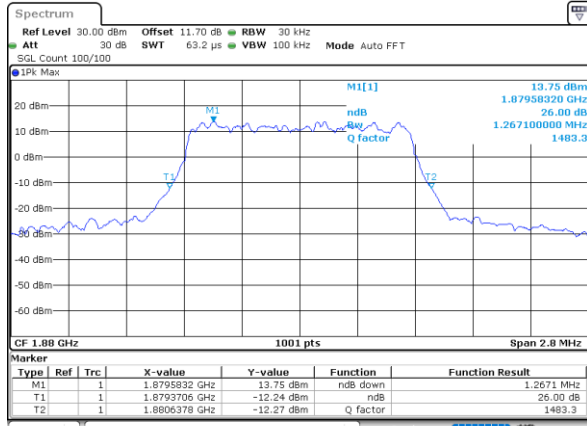


Date: 20 JUN 2021 22:17:14



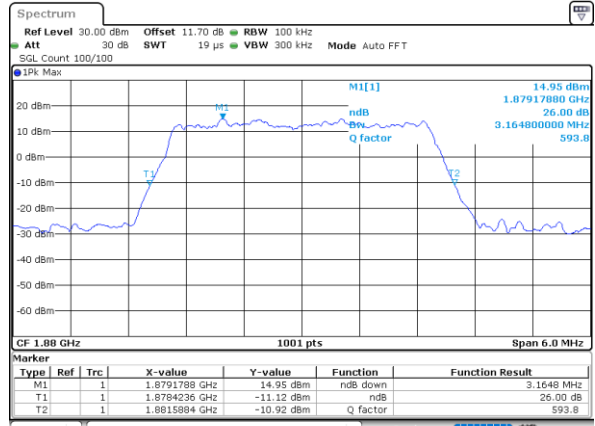
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



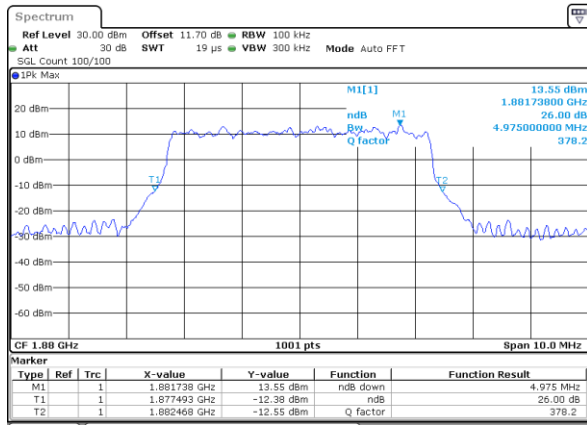
Date: 20 JUN 2021 20:42:40

Middle Channel / 3MHz / 64QAM



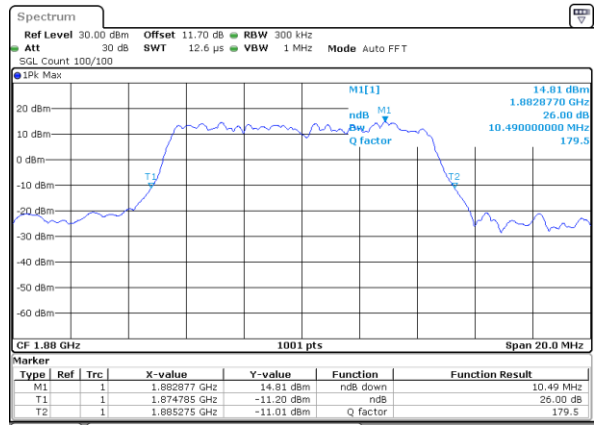
Date: 20 JUN 2021 20:51:10

Middle Channel / 5MHz / 64QAM



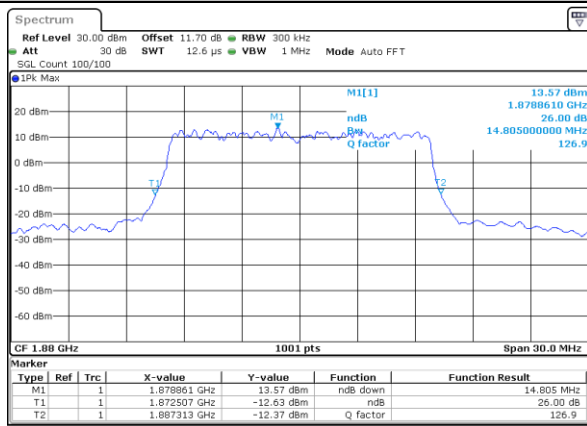
Date: 20 JUN 2021 21:27:58

Middle Channel / 10MHz / 64QAM



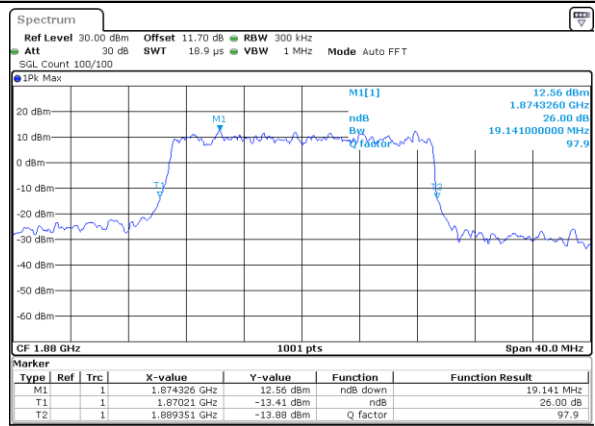
Date: 20 JUN 2021 21:41:36

Middle Channel / 15MHz / 64QAM



Date: 20 JUN 2021 22:04:06

Middle Channel / 20MHz / 64QAM

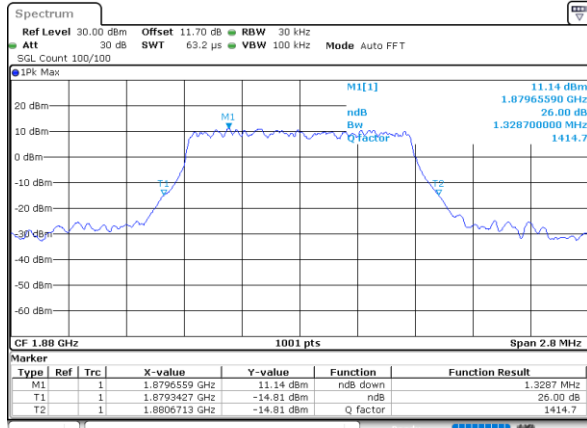


Date: 20 JUN 2021 22:22:24



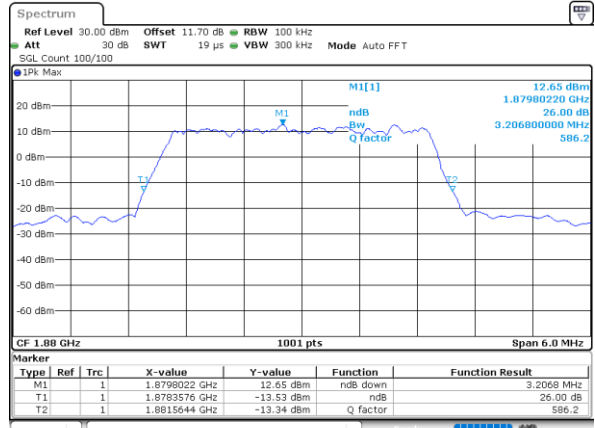
LTE Band 25

Middle Channel / 1.4MHz / 256QAM



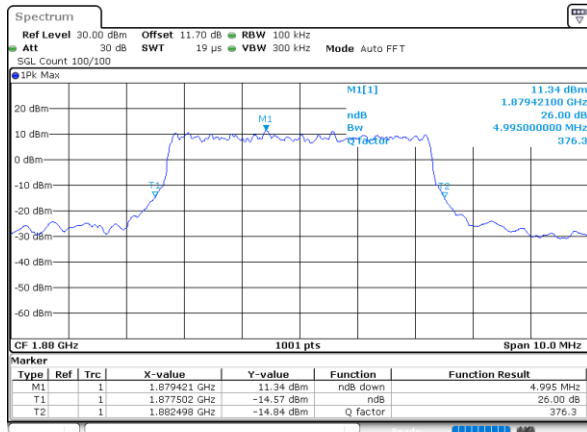
Date: 20 JUN 2021 22:27:50

Middle Channel / 3MHz / 256QAM



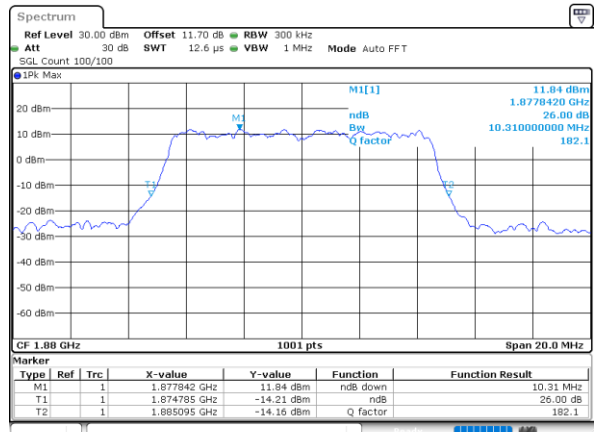
Date: 20 JUN 2021 23:13:09

Middle Channel / 5MHz / 256QAM



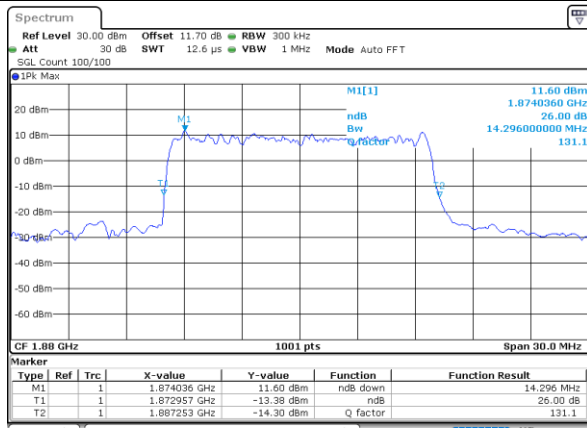
Date: 20 JUN 2021 23:22:49

Middle Channel / 10MHz / 256QAM



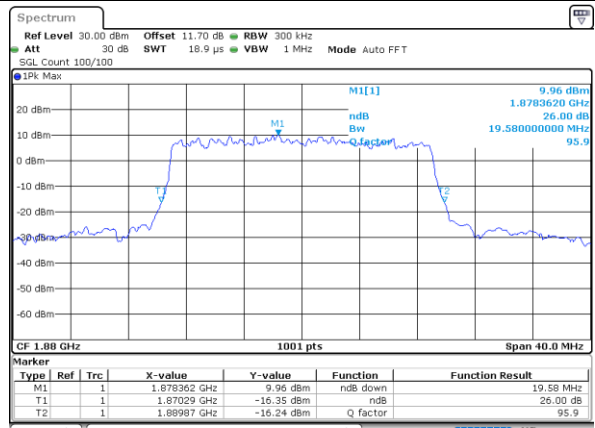
Date: 20 JUN 2021 23:36:56

Middle Channel / 15MHz / 256QAM



Date: 21 JUN 2021 23:34:32

Middle Channel / 20MHz / 256QAM



Date: 21 JUN 2021 23:43:11

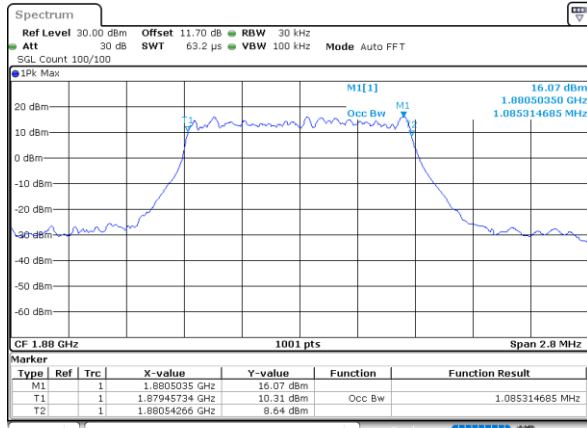
**Occupied Bandwidth**

Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.73	2.76	4.52	4.52	9.09	9.09	13.46	13.46	17.98	17.94
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.09	1.10	2.73	2.72	4.52	4.51	9.09	9.09	13.40	13.52	17.90	17.86

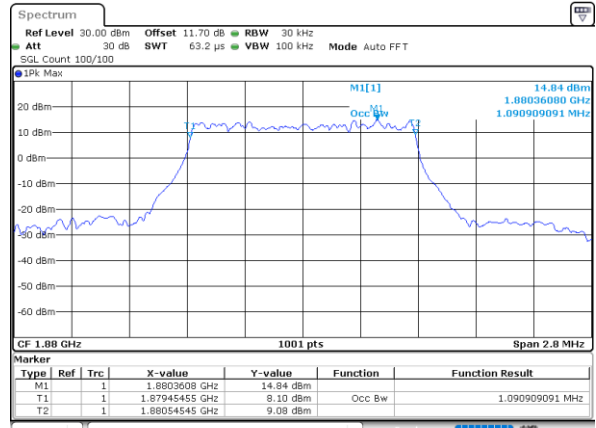


LTE Band 25

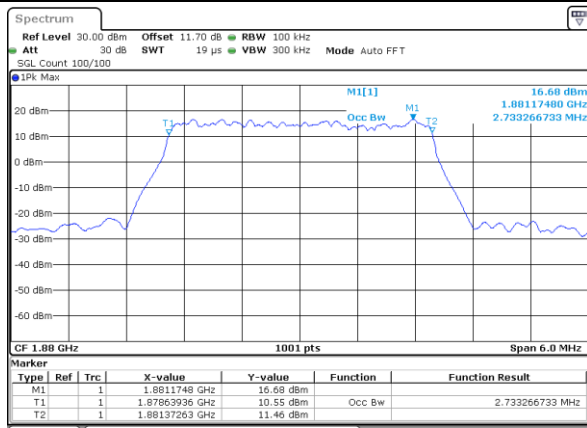
Middle Channel / 1.4MHz / QPSK



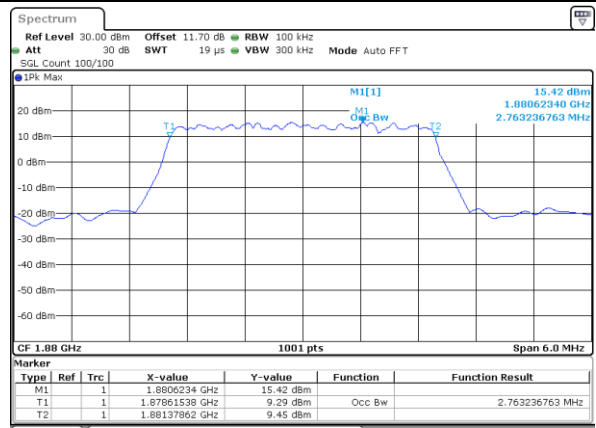
Middle Channel / 1.4MHz / 16QAM



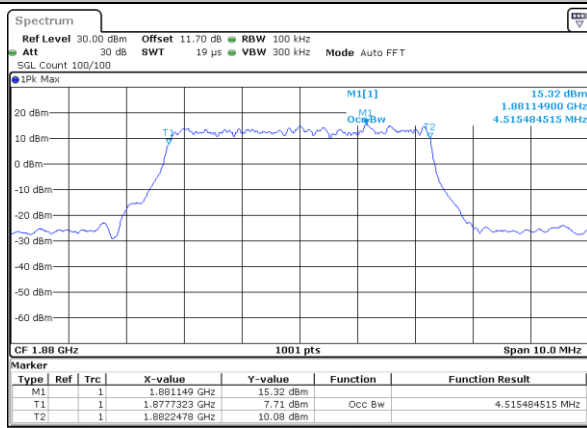
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

