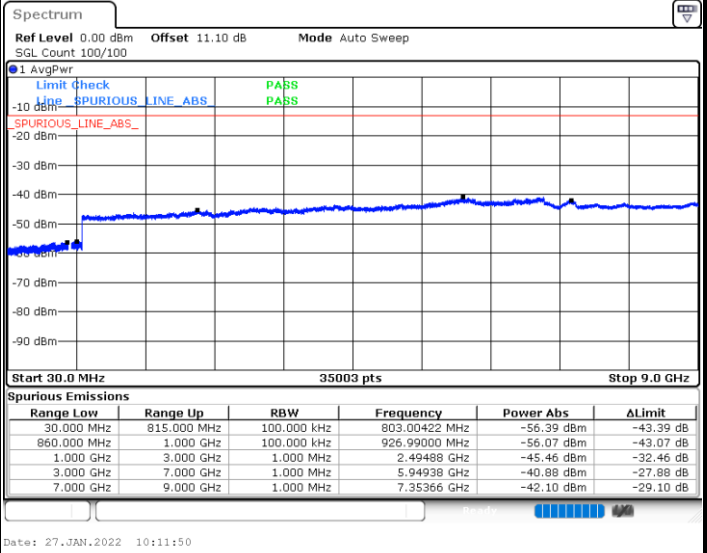
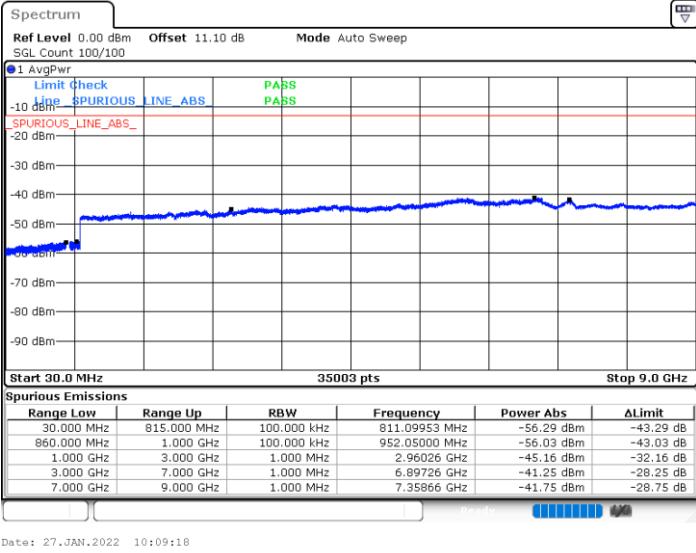




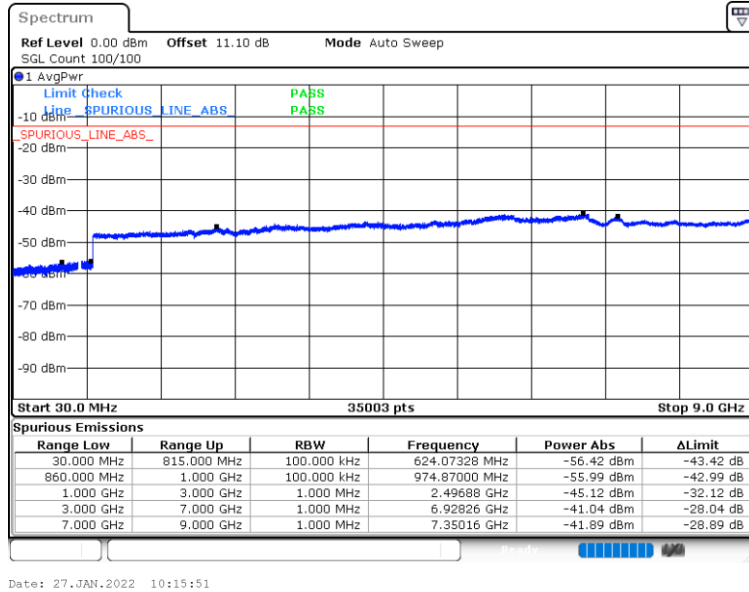
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

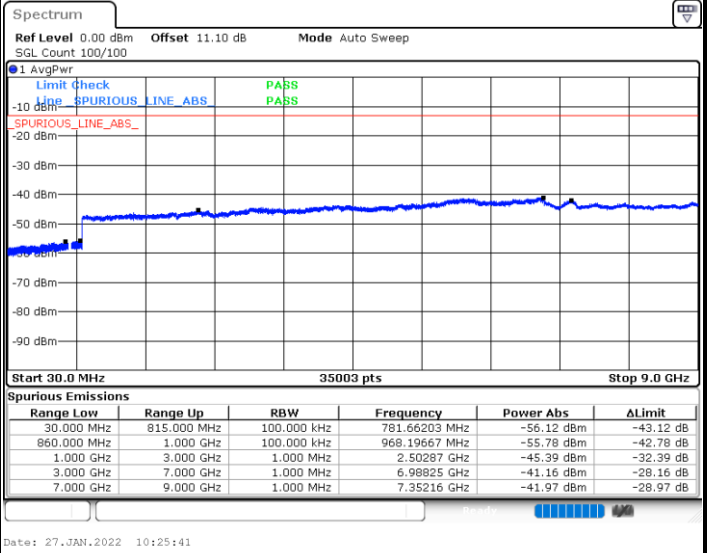
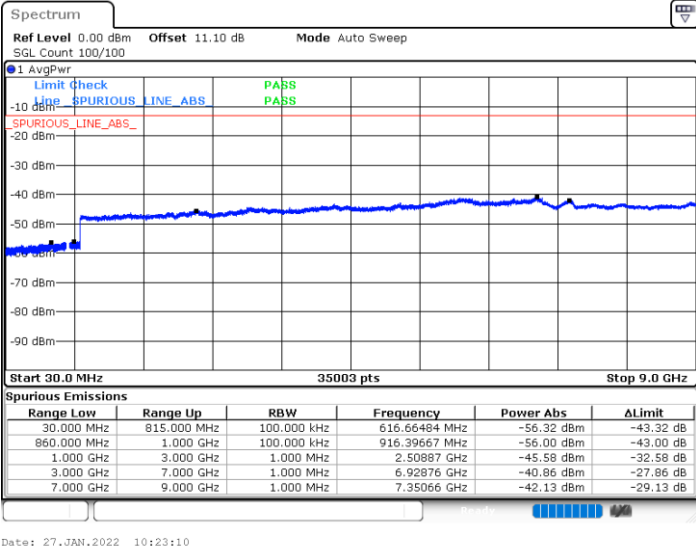




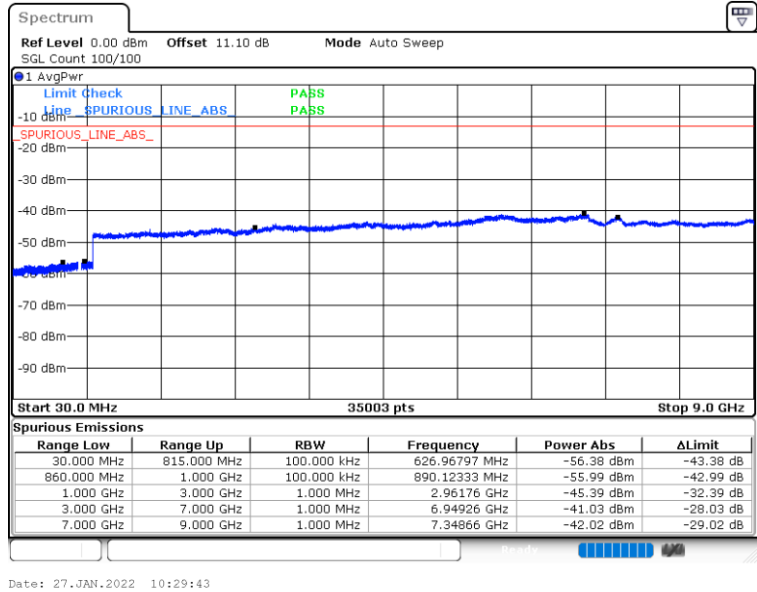
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

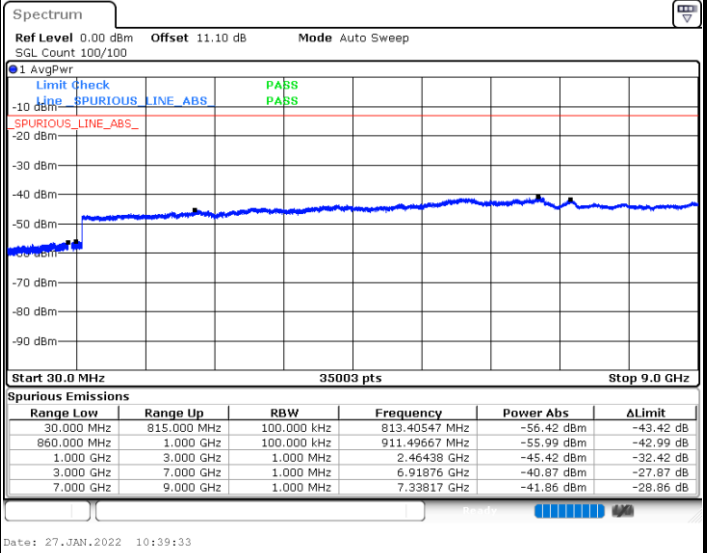
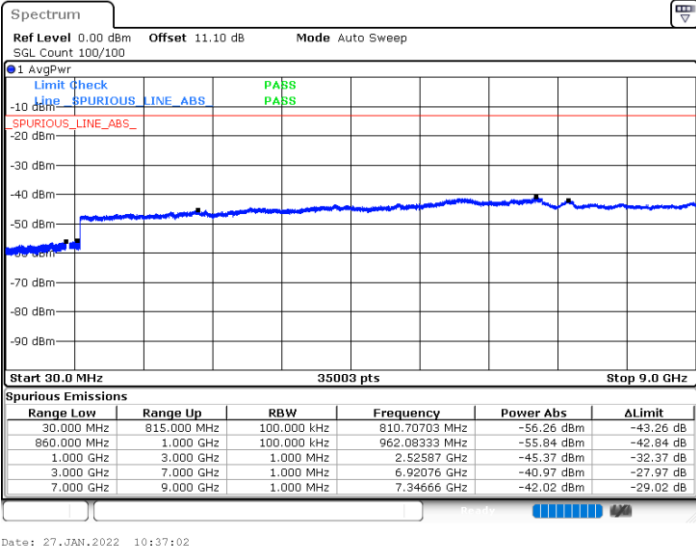




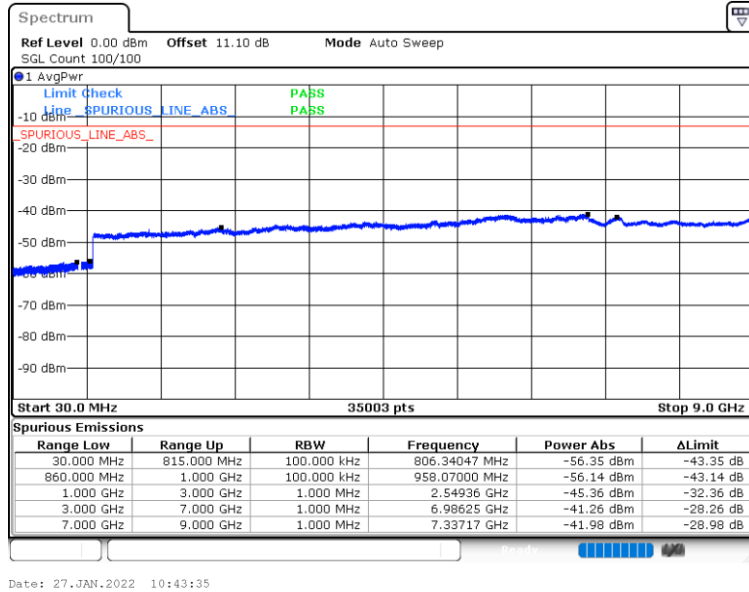
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0104	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0124	
0	Normal Voltage	0.0117	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0197	
20	Maximum Voltage	0.0160	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0121	

Note:

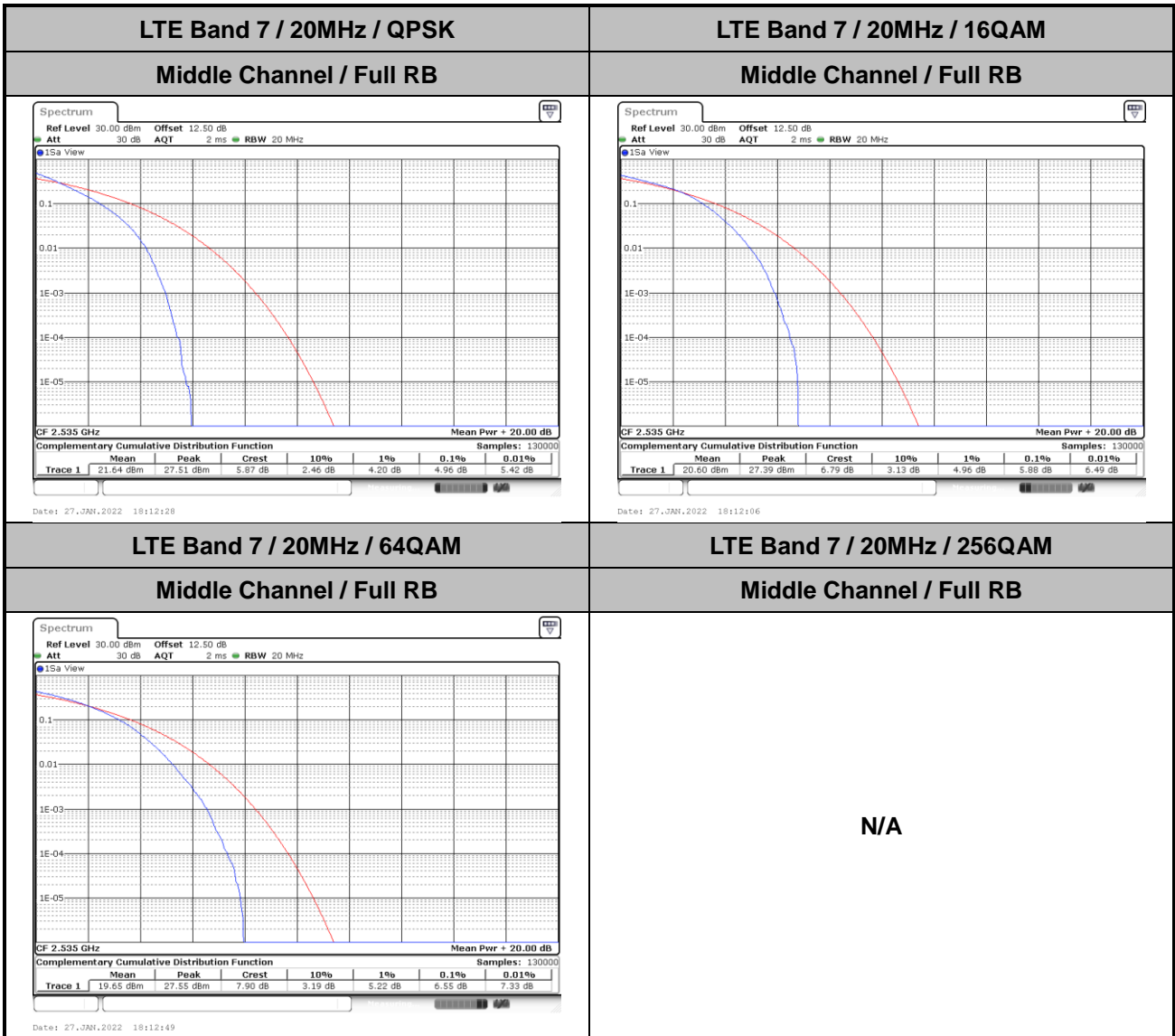
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.88	6.55	PASS





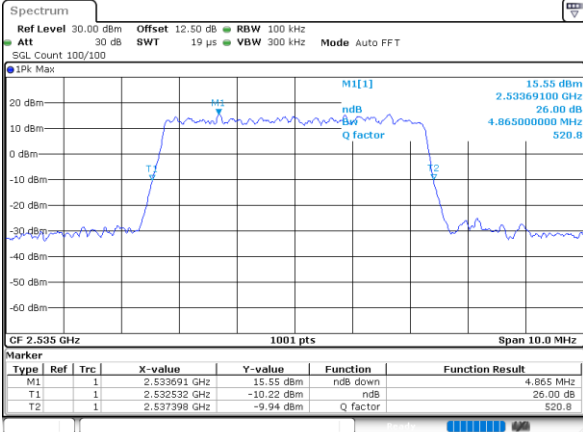
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.87	4.94	9.67	9.73	14.48	14.27	18.98	18.86
Mode	LTE Band 7 : 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	-	-	-	-	4.82	-	9.75	-	14.42	-	18.82	-



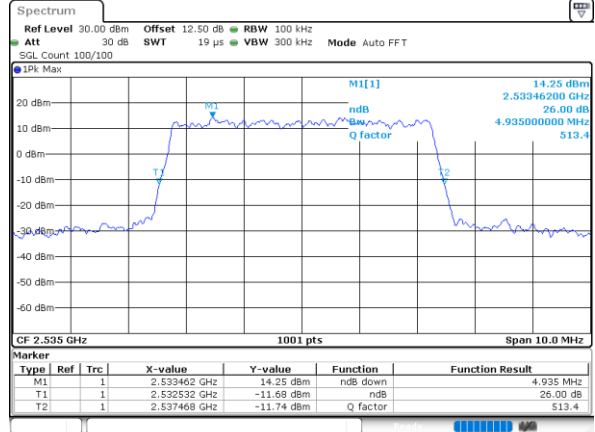
LTE Band 7

Middle Channel / 5MHz / QPSK



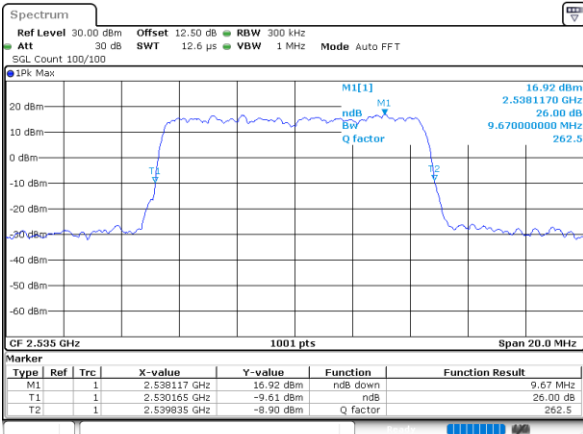
Date: 27_JAN,2022 17:16:40

Middle Channel / 5MHz / 16QAM



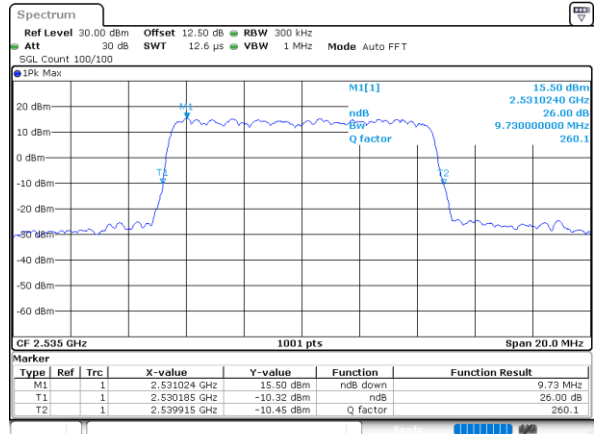
Date: 27_JAN,2022 17:17:00

Middle Channel / 10MHz / QPSK



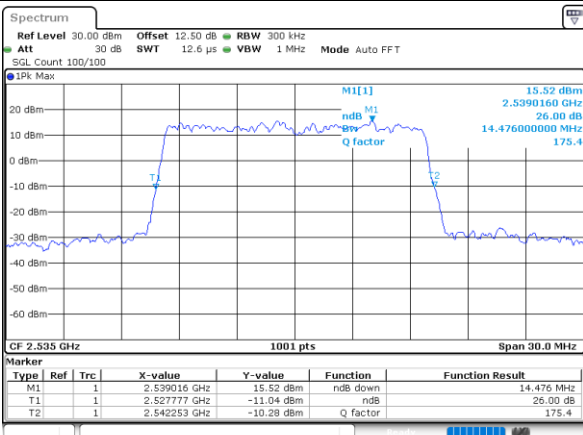
Date: 27_JAN,2022 17:31:47

Middle Channel / 10MHz / 16QAM



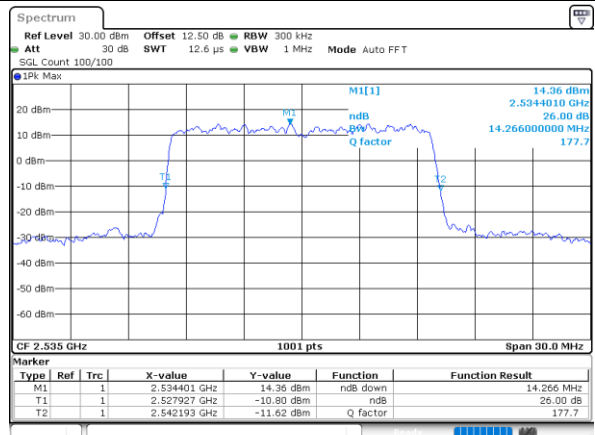
Date: 27_JAN,2022 17:32:07

Middle Channel / 15MHz / QPSK



Date: 27_JAN,2022 17:46:54

Middle Channel / 15MHz / 16QAM

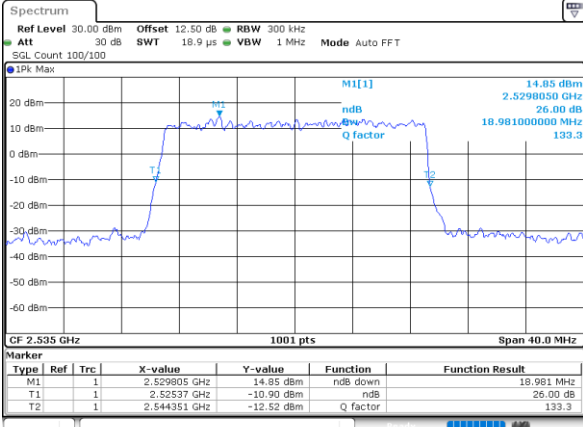


Date: 27_JAN,2022 17:47:15



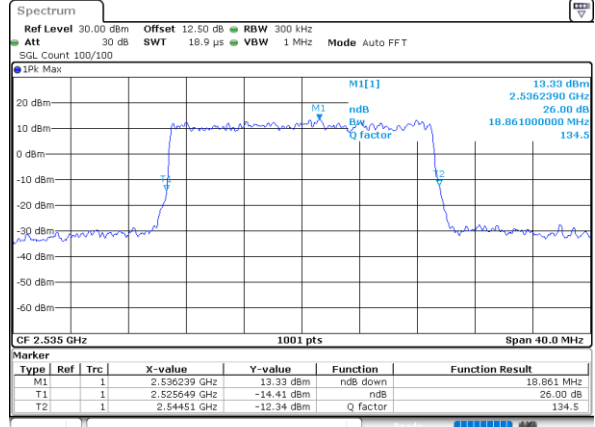
LTE Band 7

Middle Channel / 20MHz / QPSK



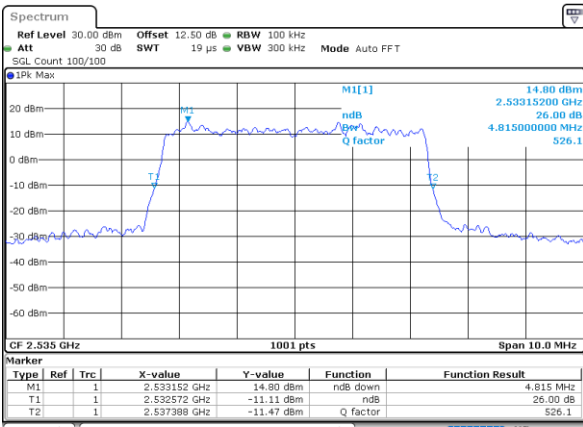
Date: 27_JAN_2022 18:02:01

Middle Channel / 20MHz / 16QAM



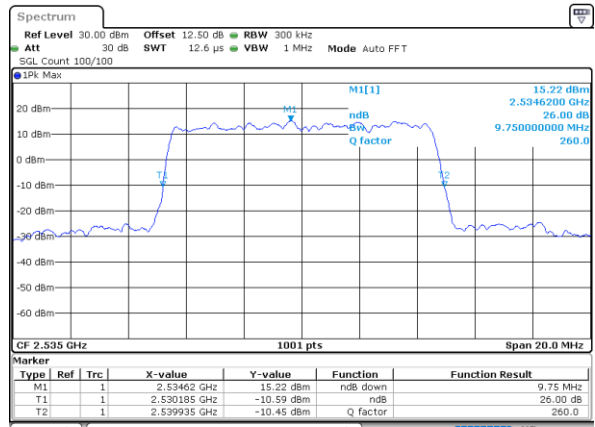
Date: 27_JAN_2022 18:02:21

Middle Channel / 5MHz / 64QAM



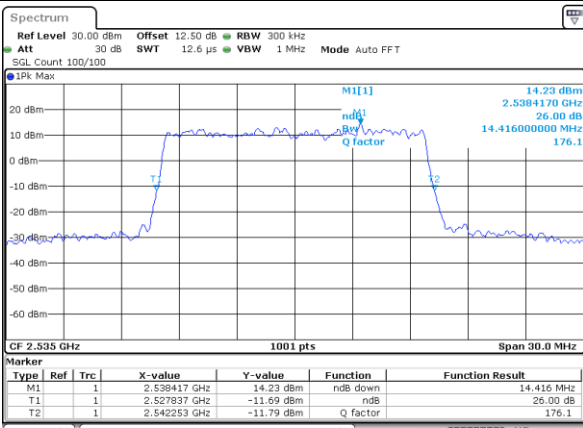
Date: 27_JAN_2022 17:24:43

Middle Channel / 10MHz / 64QAM



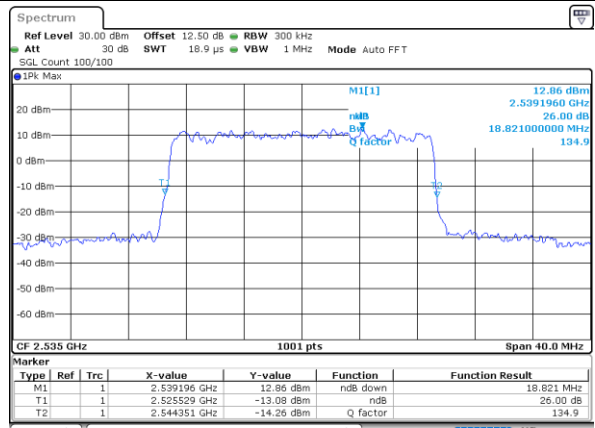
Date: 27_JAN_2022 17:39:49

Middle Channel / 15MHz / 64QAM



Date: 27_JAN_2022 17:54:56

Middle Channel / 20MHz / 64QAM



Date: 27_JAN_2022 18:10:03



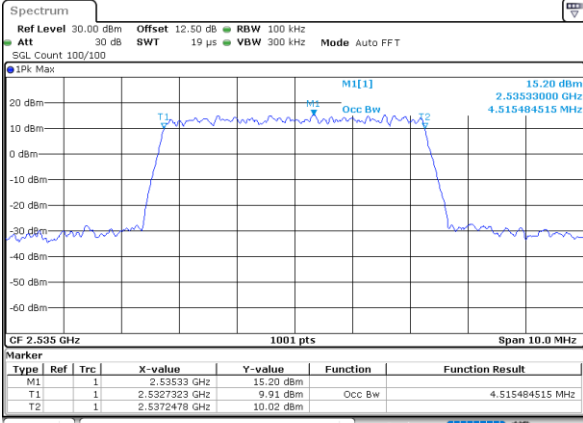
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.52	4.49	9.11	9.01	13.46	13.49	17.90	17.94
Mode	LTE Band 7 : 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	-	-	-	-	4.51	-	8.99	-	13.49	-	17.90	-



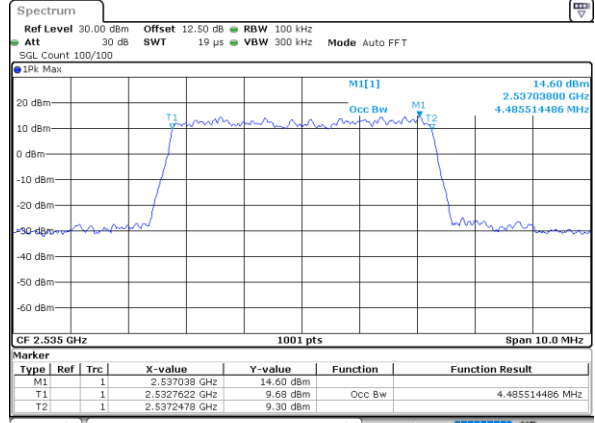
LTE Band 7

Middle Channel / 5MHz / QPSK



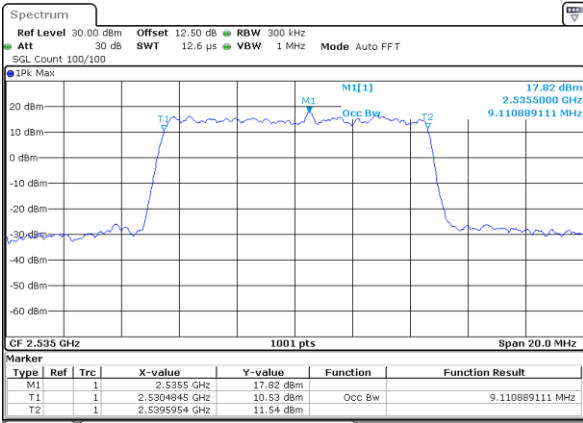
Date: 27_JAN.2022 17:15:59

Middle Channel / 5MHz / 16QAM



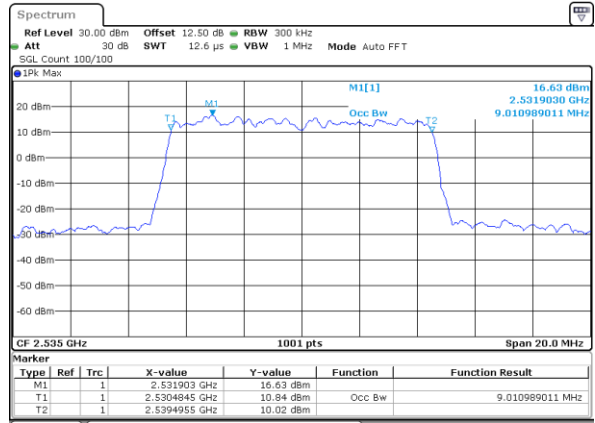
Date: 27_JAN.2022 17:16:19

Middle Channel / 10MHz / QPSK



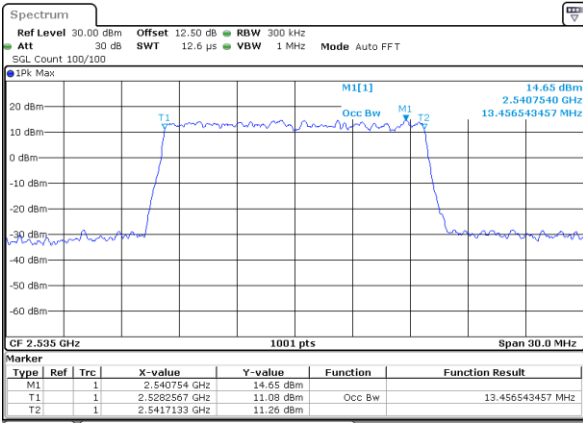
Date: 27_JAN.2022 17:31:06

Middle Channel / 10MHz / 16QAM



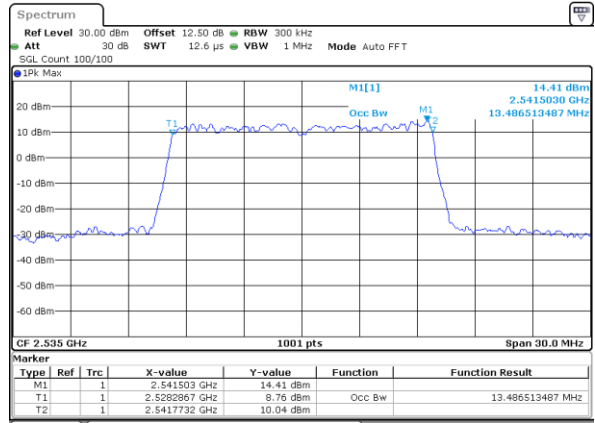
Date: 27_JAN.2022 17:31:26

Middle Channel / 15MHz / QPSK



Date: 27_JAN.2022 17:46:13

Middle Channel / 15MHz / 16QAM

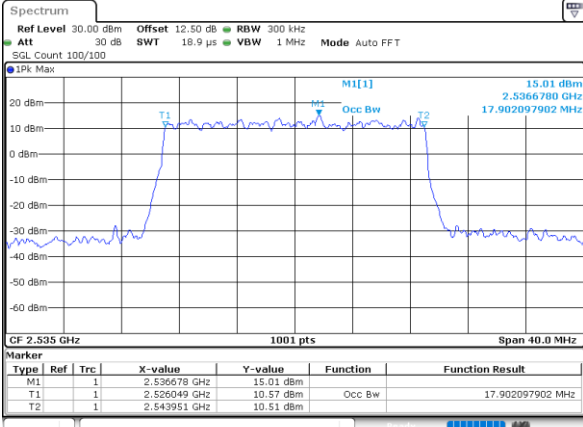


Date: 27_JAN.2022 17:46:34



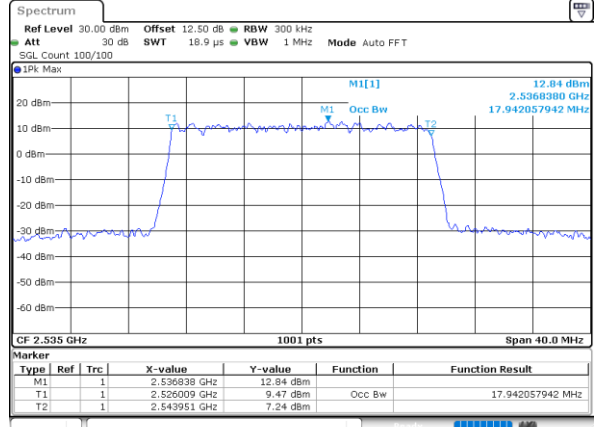
LTE Band 7

Middle Channel / 20MHz / QPSK



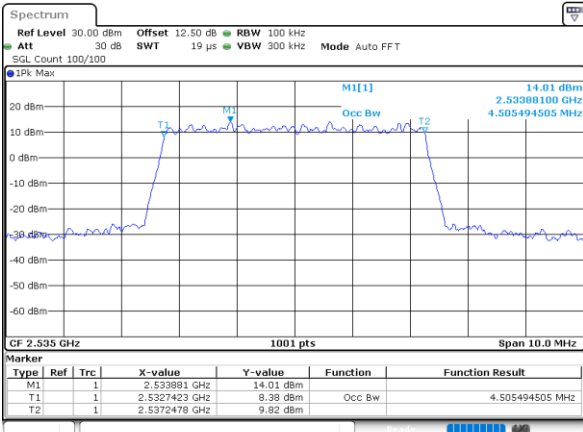
Date: 27_JAN,2022 18:01:20

Middle Channel / 20MHz / 16QAM



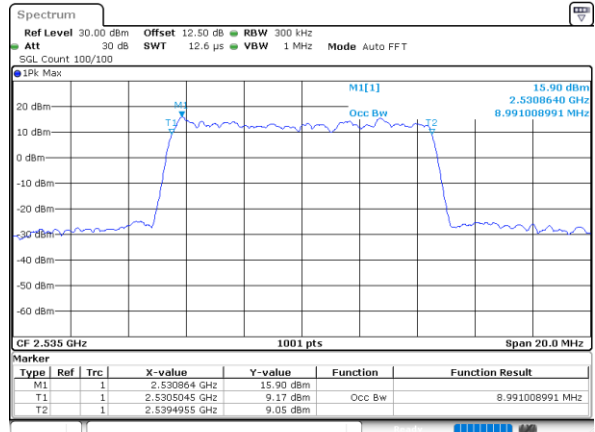
Date: 27_JAN,2022 18:01:40

Middle Channel / 5MHz / 64QAM



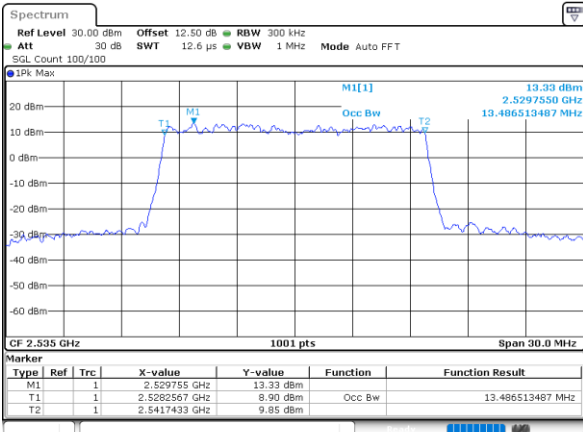
Date: 27_JAN,2022 17:24:23

Middle Channel / 10MHz / 64QAM



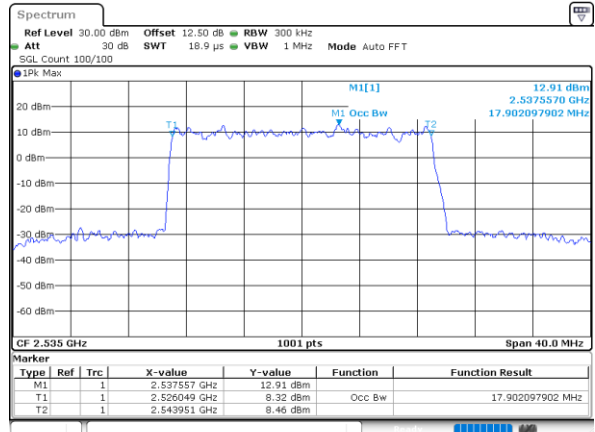
Date: 27_JAN,2022 17:39:29

Middle Channel / 15MHz / 64QAM



Date: 27_JAN,2022 17:54:35

Middle Channel / 20MHz / 64QAM



Date: 27_JAN,2022 18:09:43

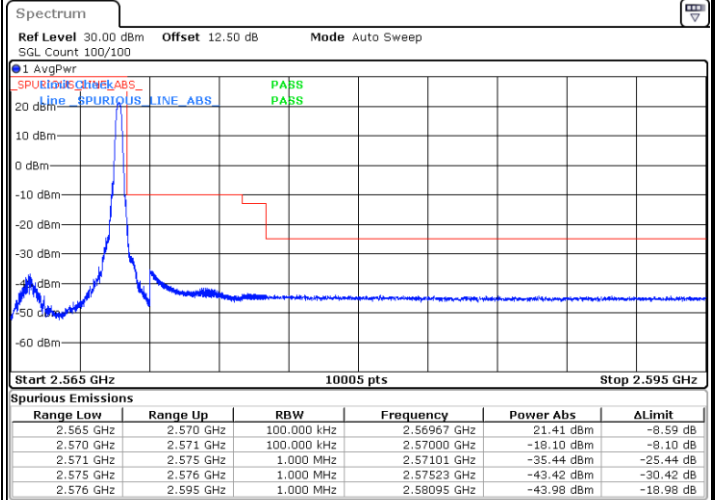
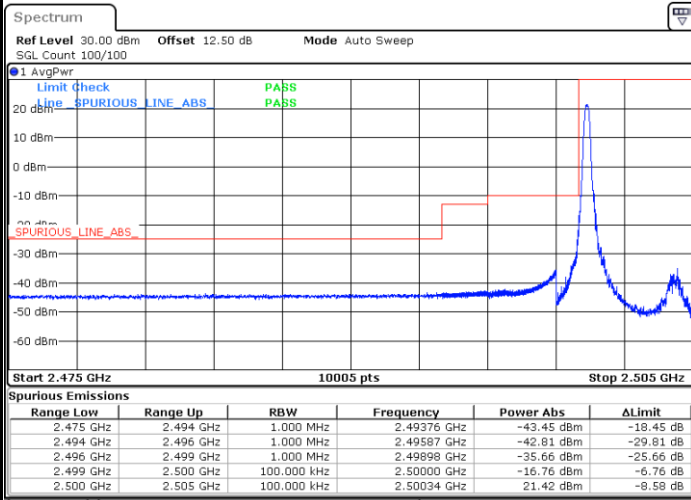


Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

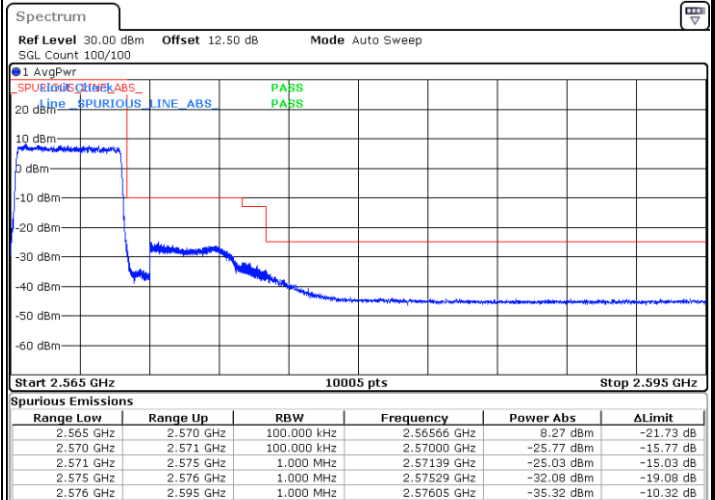
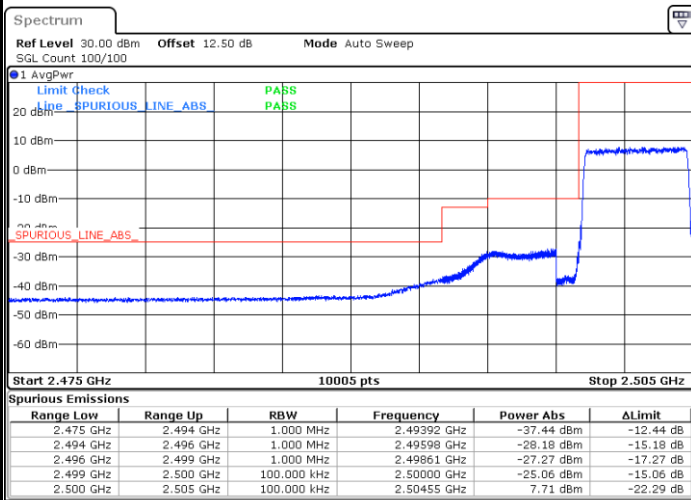


Date: 27.JAN.2022 17:12:05

Date: 27.JAN.2022 17:18:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



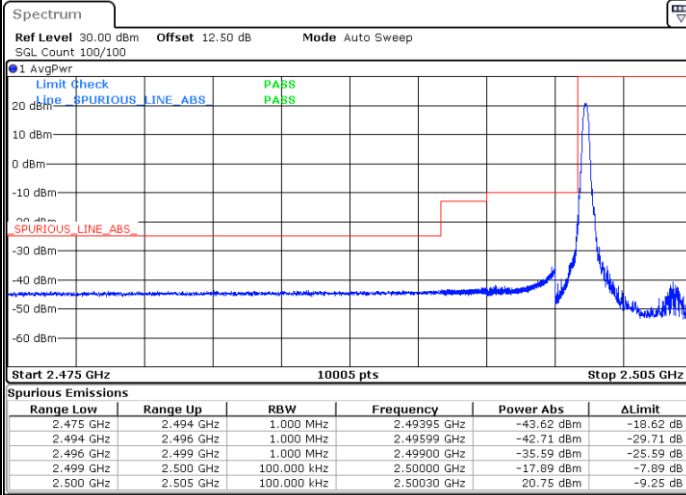
Date: 27.JAN.2022 17:13:47

Date: 27.JAN.2022 17:20:30



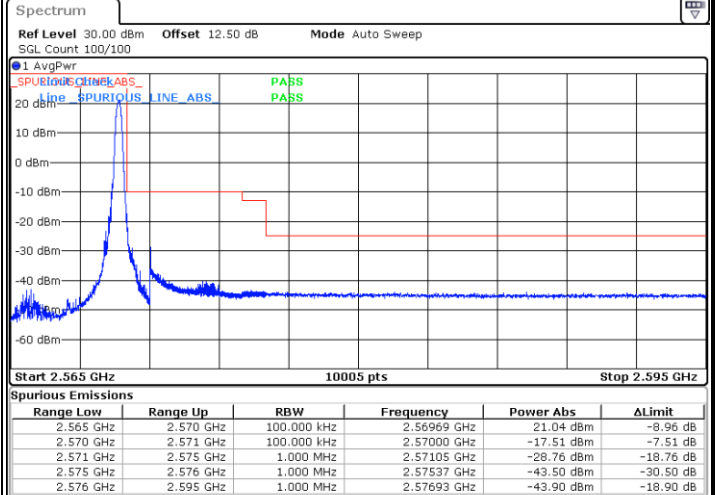
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



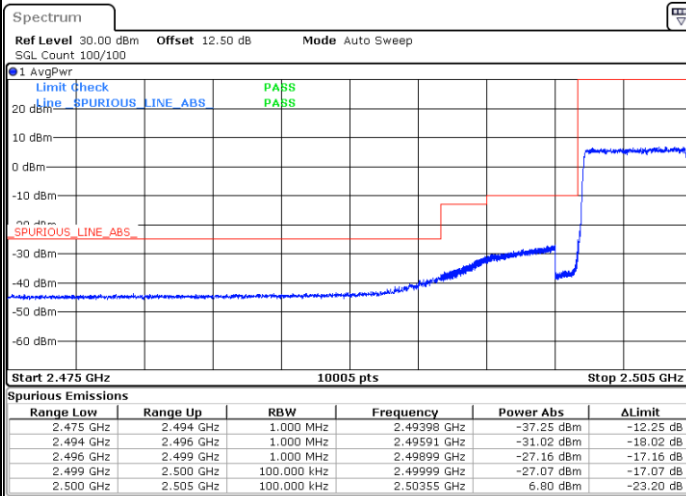
Date: 27.JAN.2022 17:12:56

Highest Band Edge / 1 RB



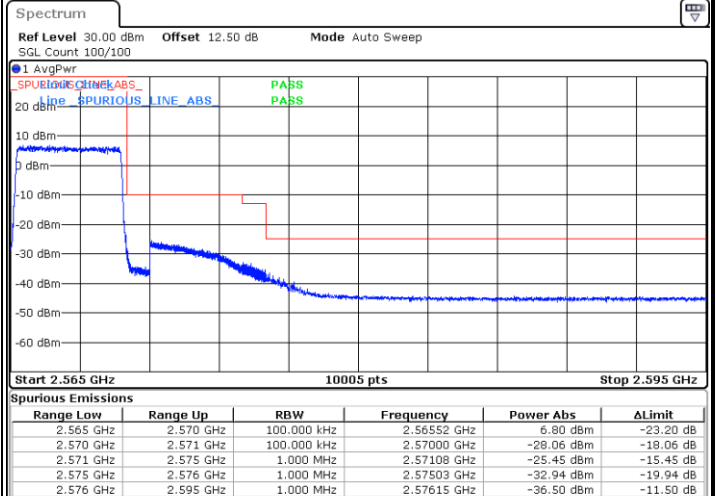
Date: 27.JAN.2022 17:19:40

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:14:38

Highest Band Edge / Full RB

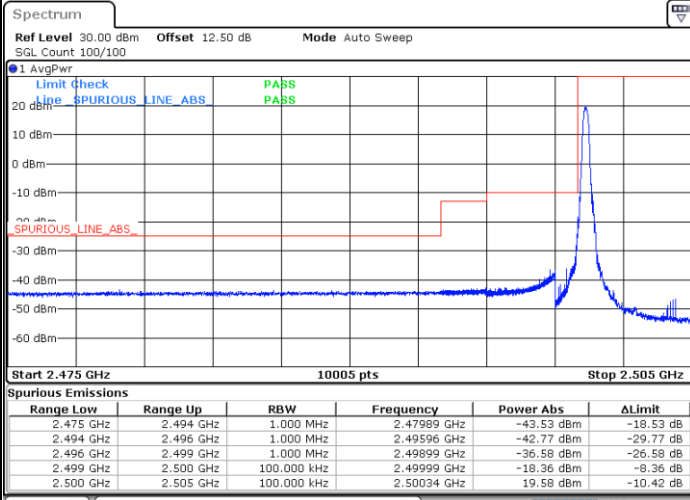


Date: 27.JAN.2022 17:21:21



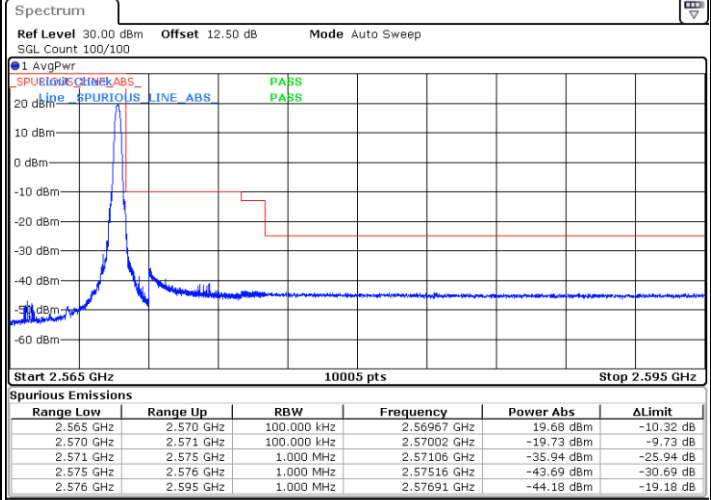
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



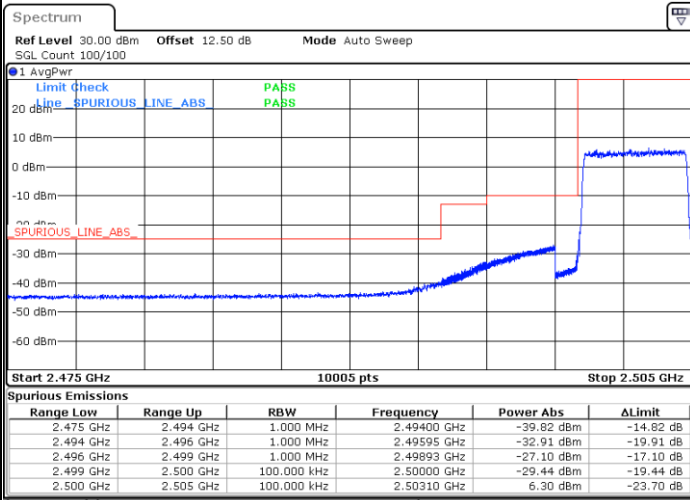
Date: 27.JAN.2022 17:23:11

Highest Band Edge / 1 RB



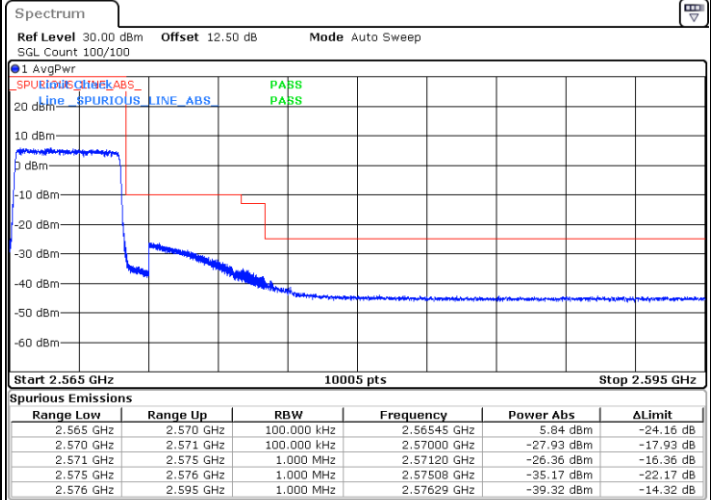
Date: 27.JAN.2022 17:25:33

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:24:02

Highest Band Edge / Full RB

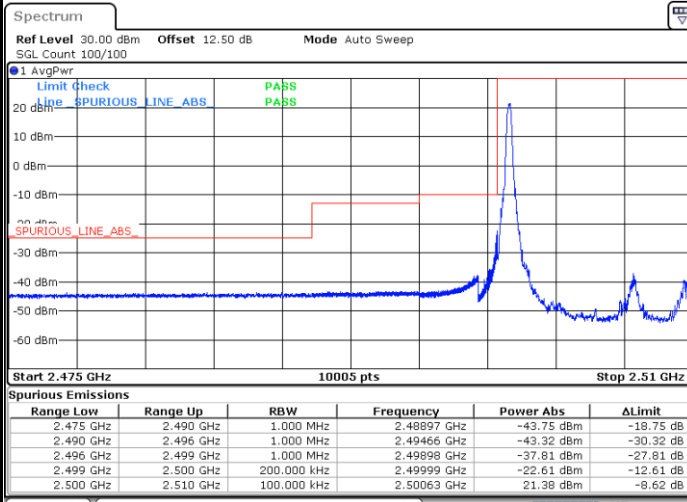


Date: 27.JAN.2022 17:26:23



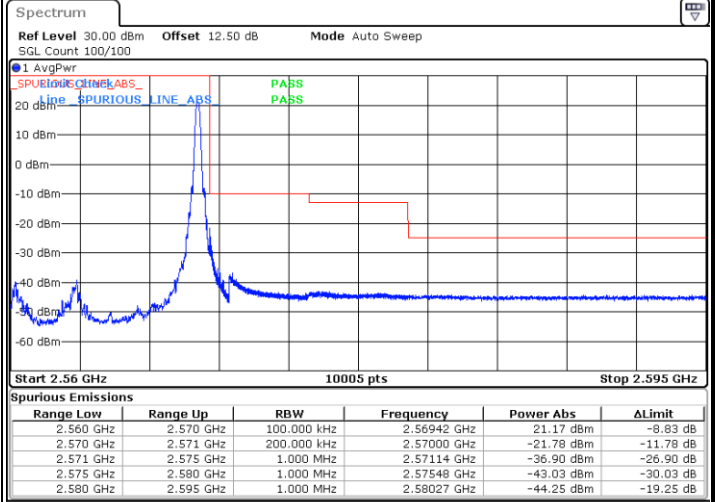
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



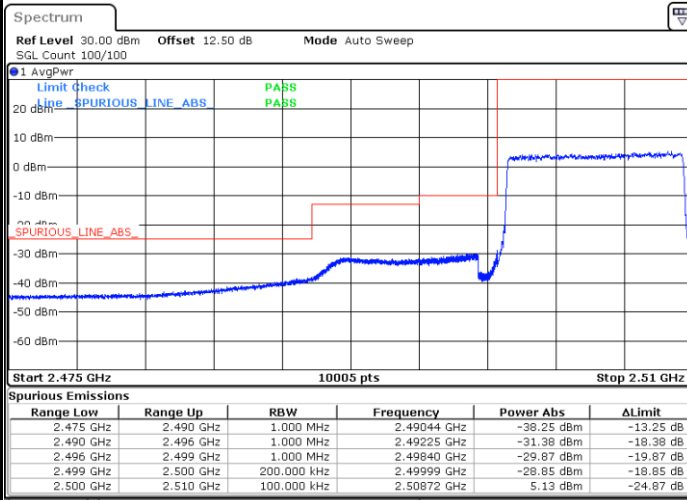
Date: 27.JAN.2022 17:27:14

Highest Band Edge / 1 RB



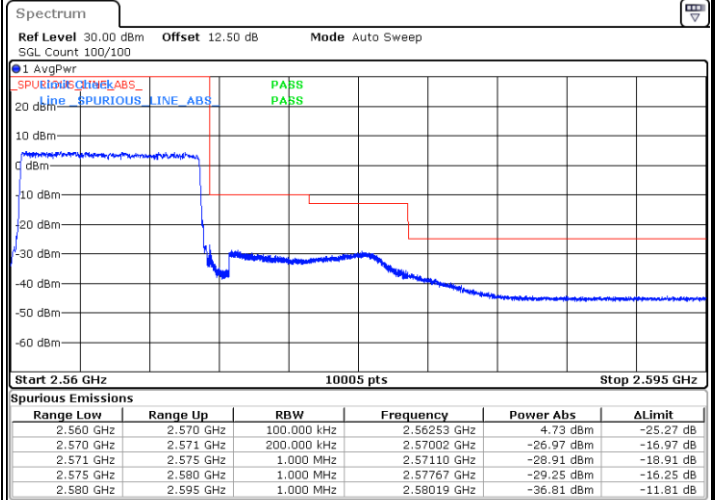
Date: 27.JAN.2022 17:33:56

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:28:55

Highest Band Edge / Full RB

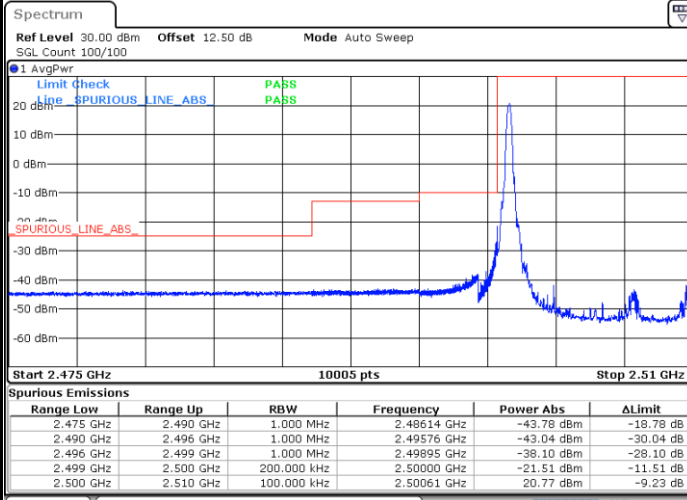


Date: 27.JAN.2022 17:35:37



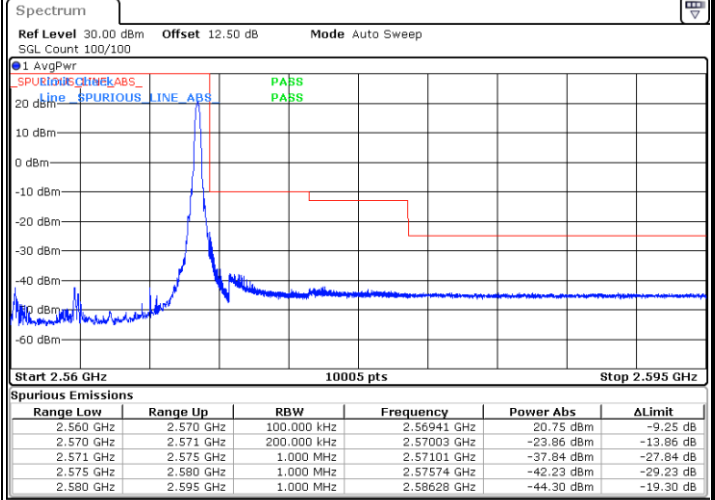
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



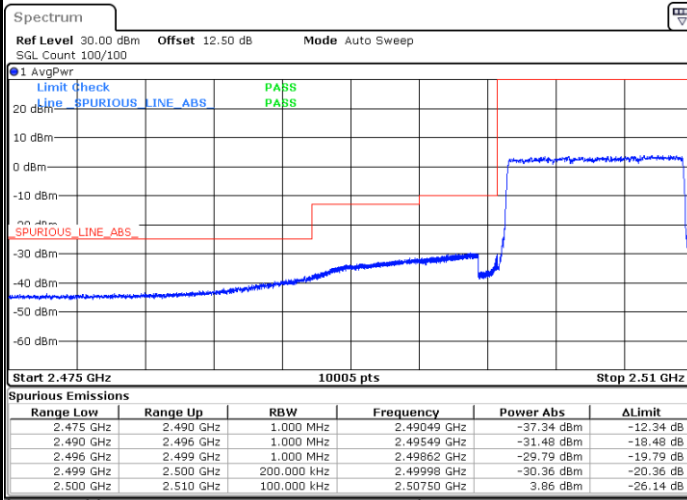
Date: 27.JAN.2022 17:28:05

Highest Band Edge / 1 RB



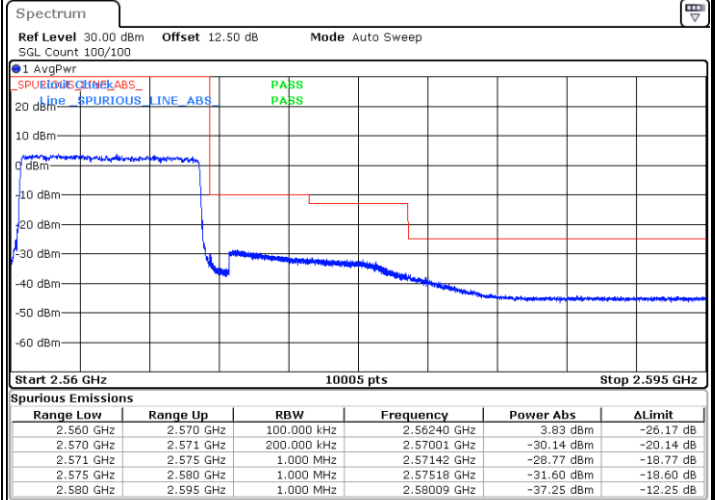
Date: 27.JAN.2022 17:34:47

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:29:46

Highest Band Edge / Full RB

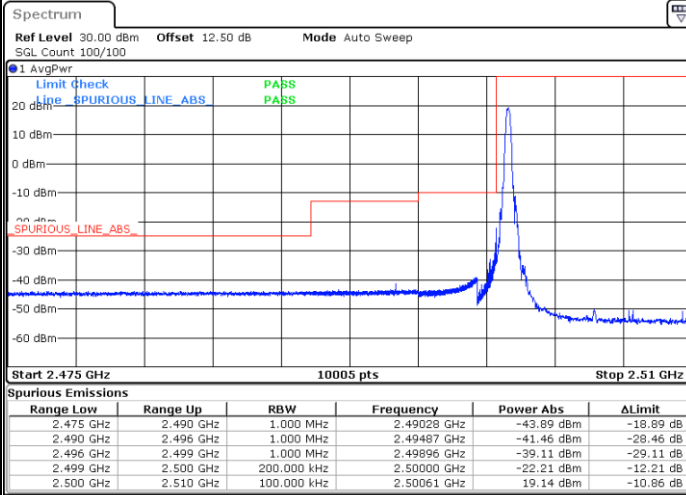


Date: 27.JAN.2022 17:36:27



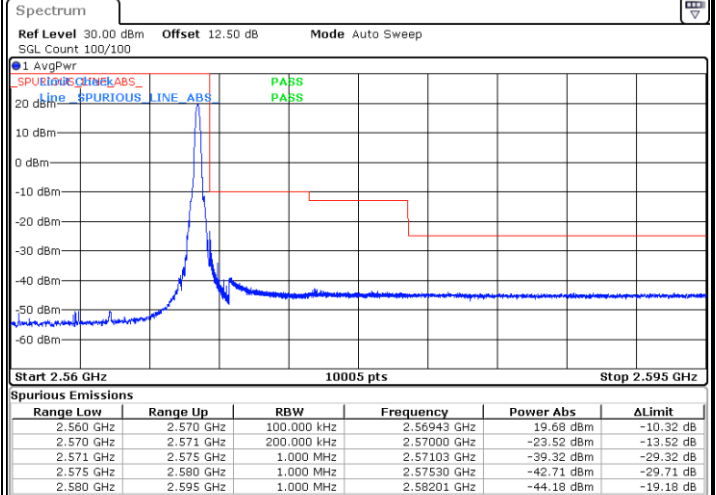
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



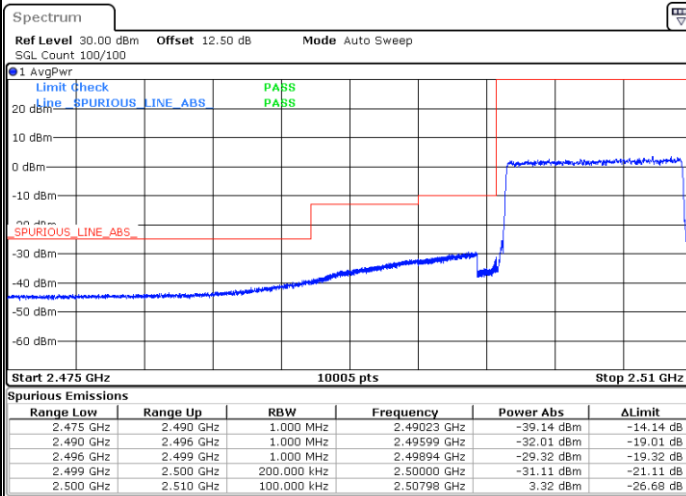
Date: 27.JAN.2022 17:38:17

Highest Band Edge / 1 RB



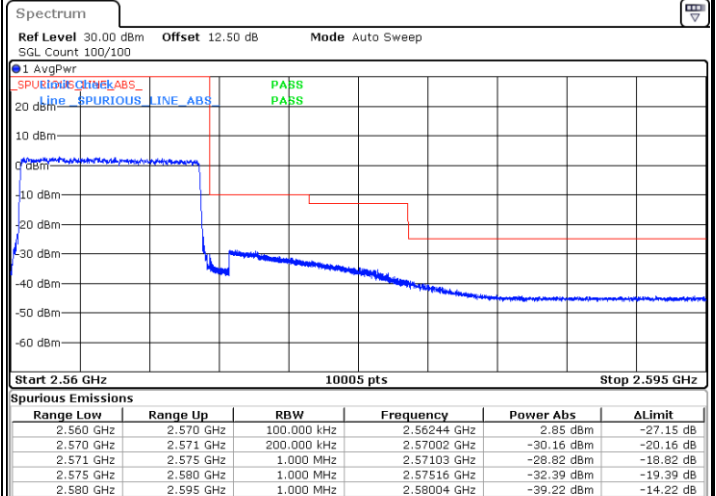
Date: 27.JAN.2022 17:40:39

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:39:08

Highest Band Edge / Full RB

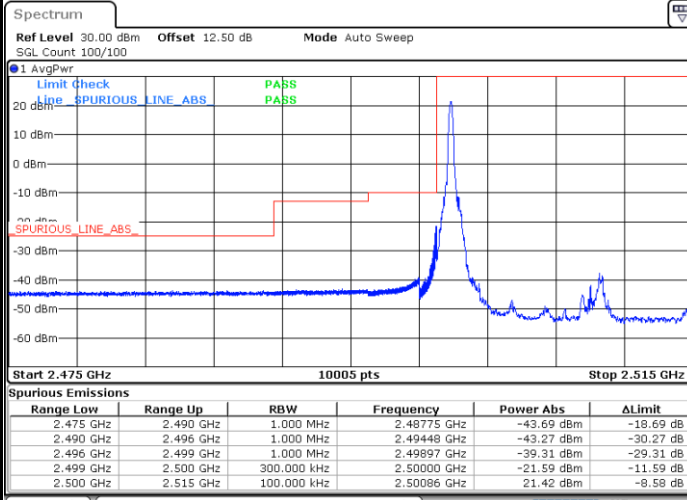


Date: 27.JAN.2022 17:41:29



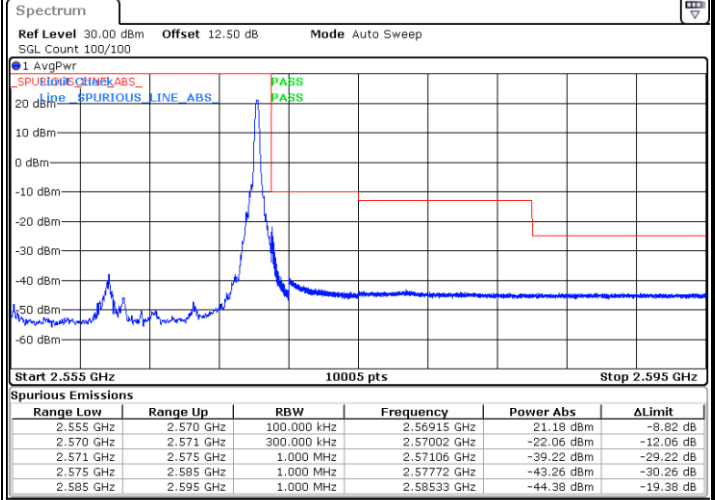
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



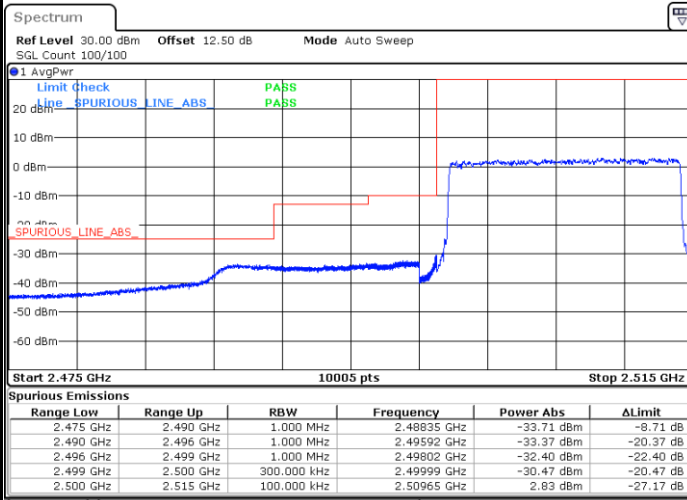
Date: 27.JAN.2022 17:42:21

Highest Band Edge / 1 RB



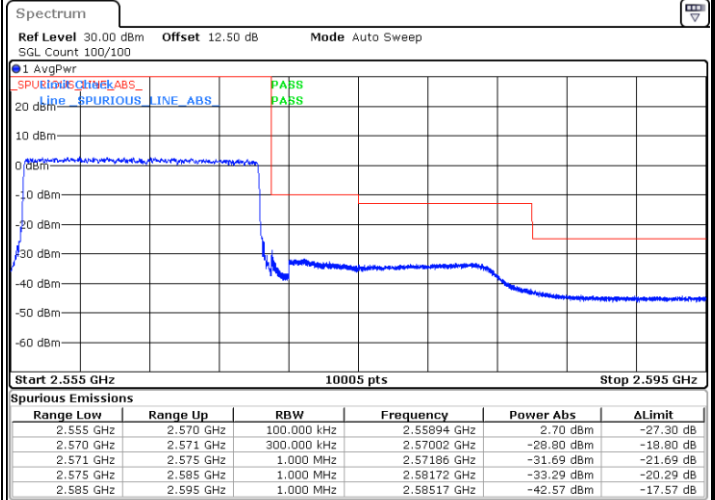
Date: 27.JAN.2022 17:49:03

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:44:02

Highest Band Edge / Full RB

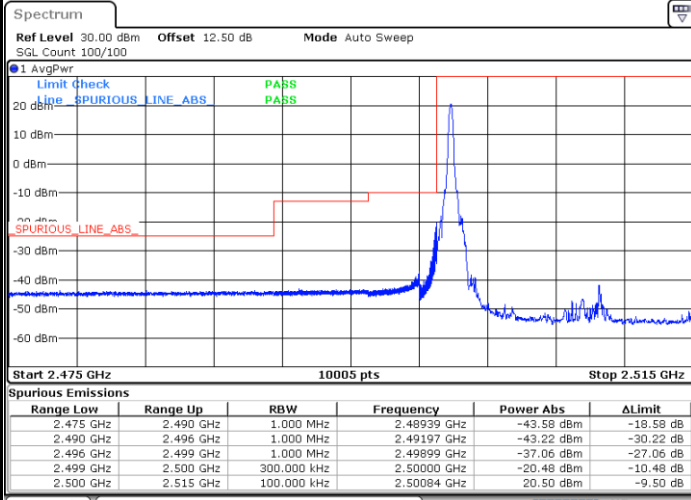


Date: 27.JAN.2022 17:50:44



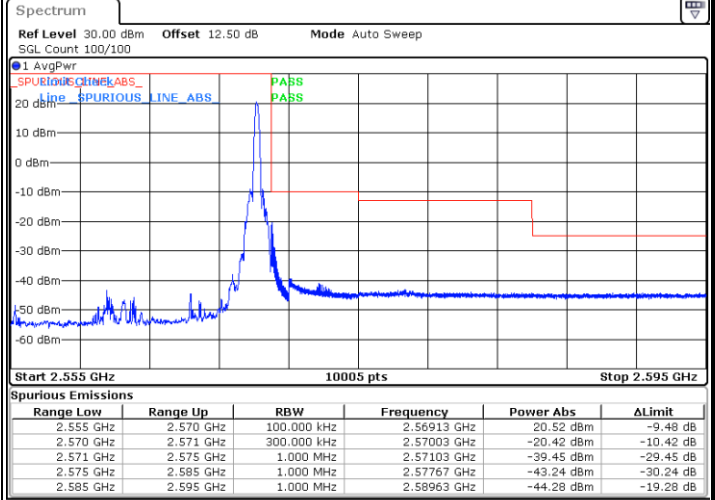
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



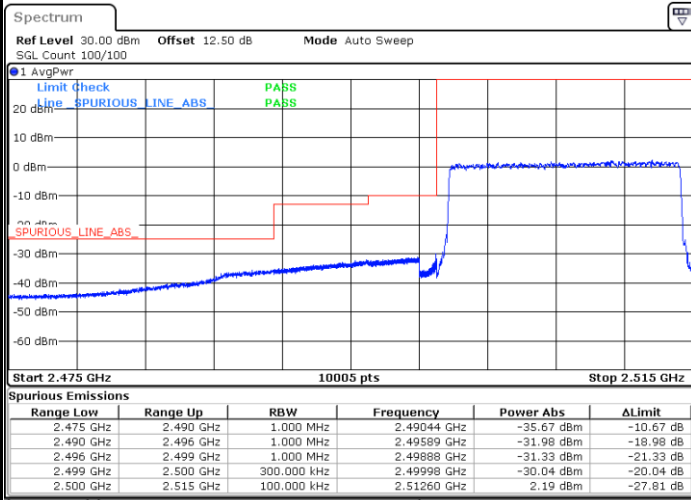
Date: 27.JAN.2022 17:43:11

Highest Band Edge / 1 RB



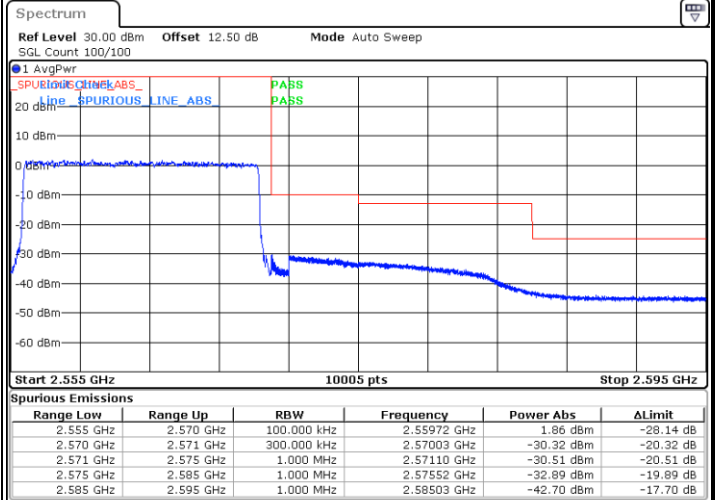
Date: 27.JAN.2022 17:49:53

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:44:53

Highest Band Edge / Full RB

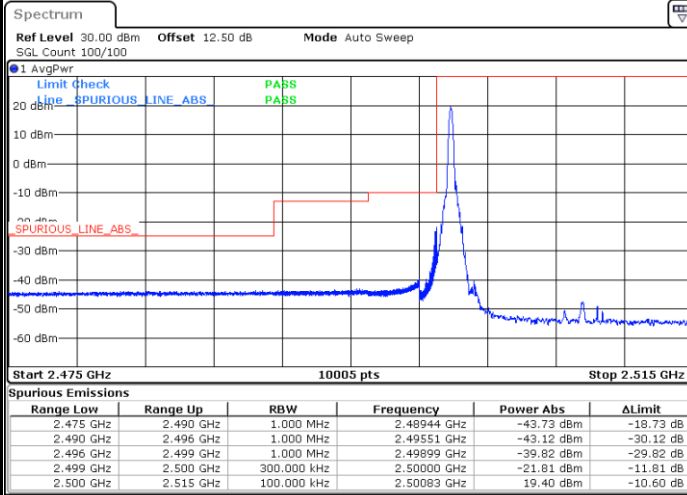


Date: 27.JAN.2022 17:51:34



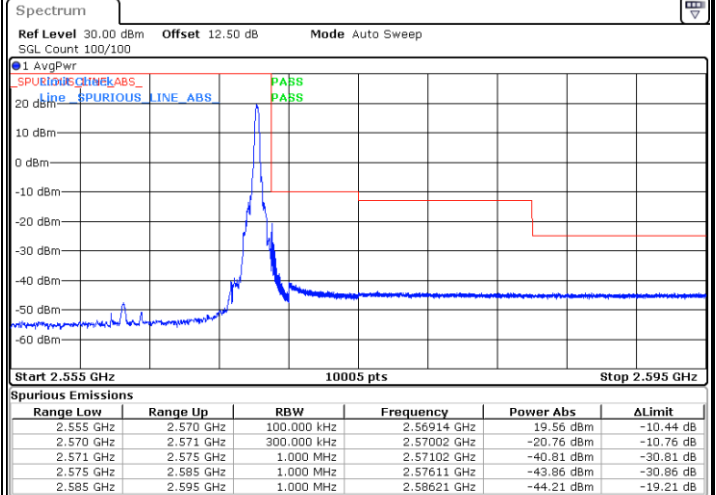
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



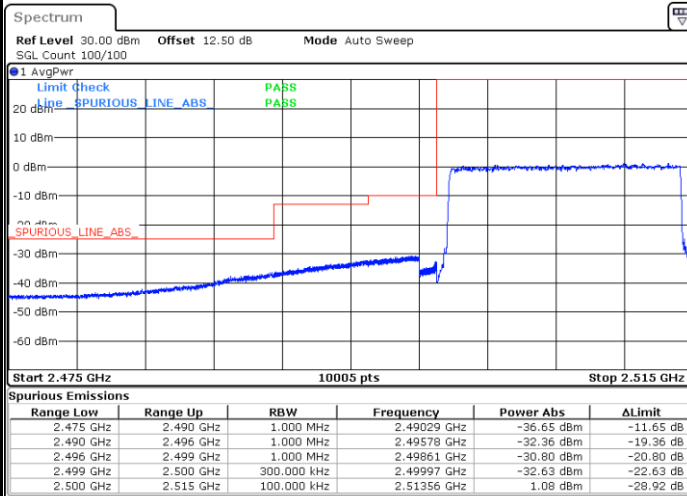
Date: 27.JAN.2022 17:53:24

Highest Band Edge / 1 RB



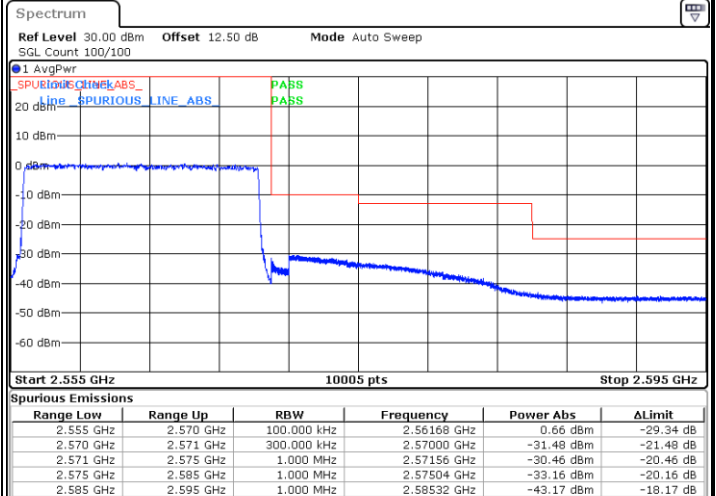
Date: 27.JAN.2022 17:55:45

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:54:14

Highest Band Edge / Full RB

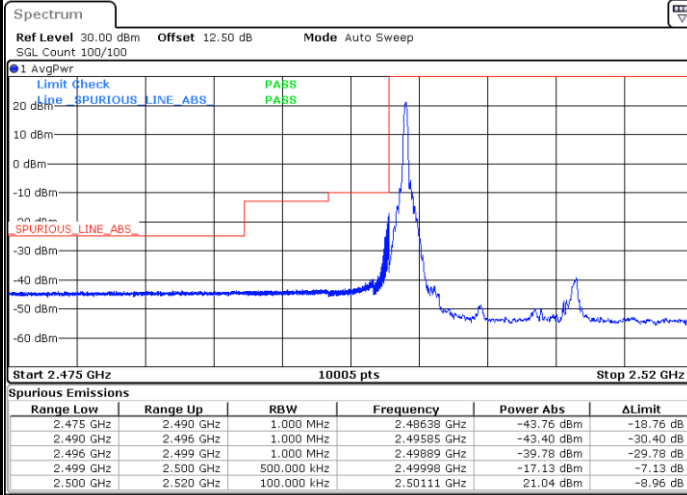


Date: 27.JAN.2022 17:56:36



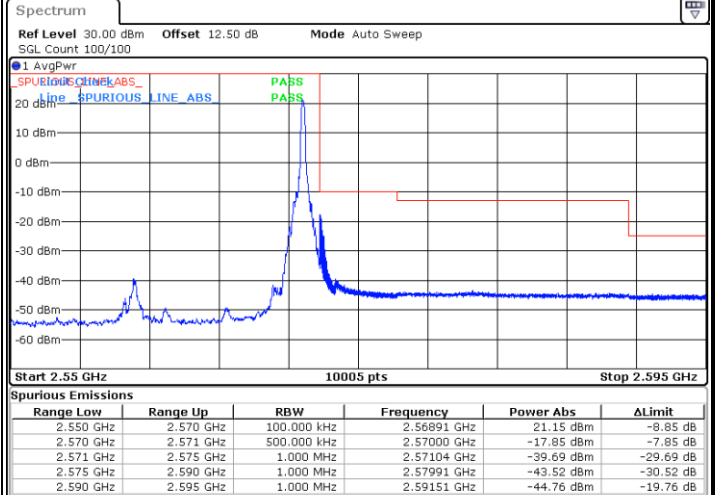
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



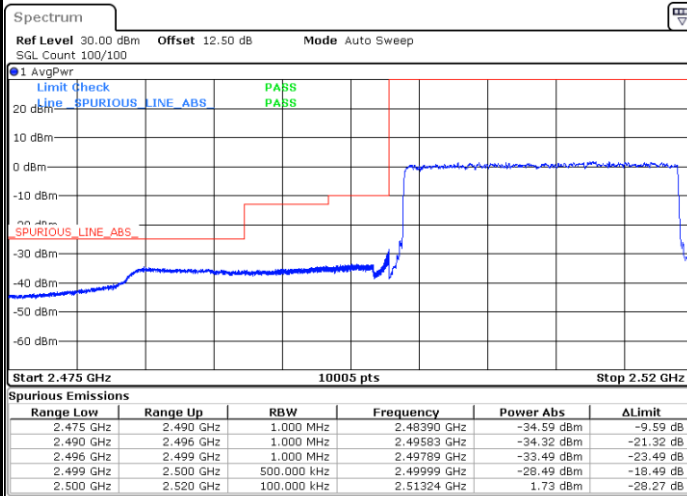
Date: 27.JAN.2022 17:57:27

Highest Band Edge / 1 RB



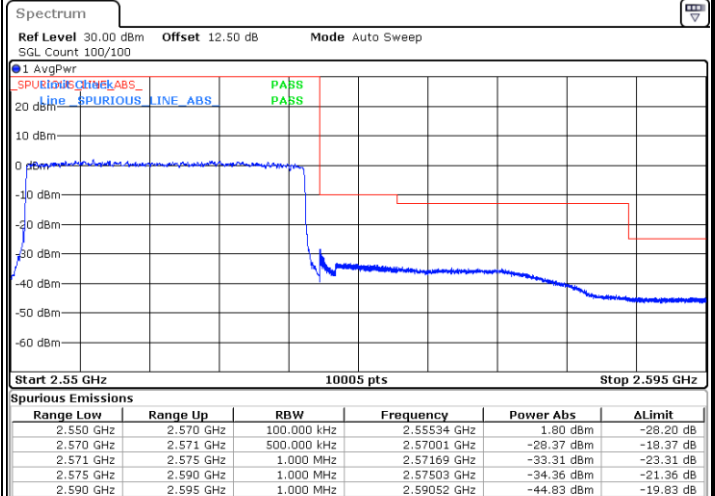
Date: 27.JAN.2022 18:04:10

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:59:08

Highest Band Edge / Full RB

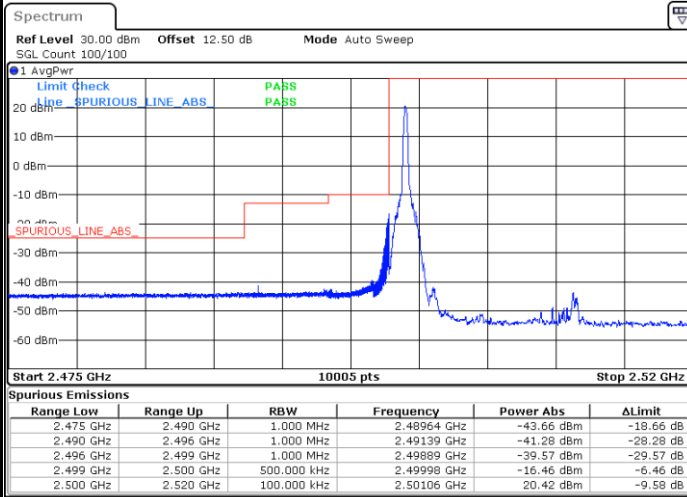


Date: 27.JAN.2022 18:06:41



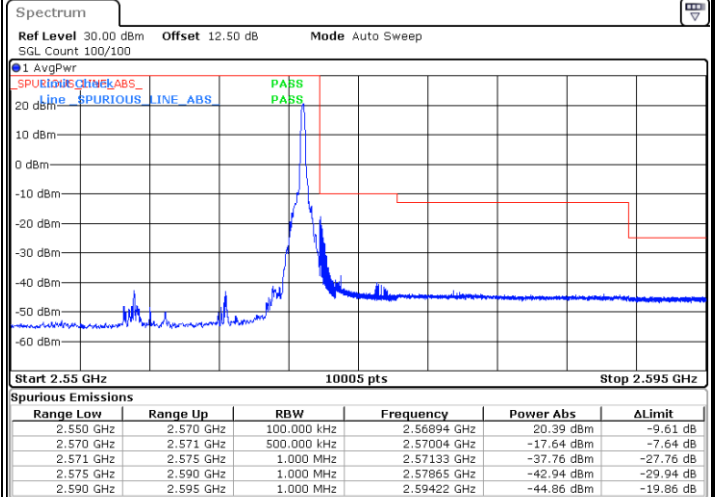
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



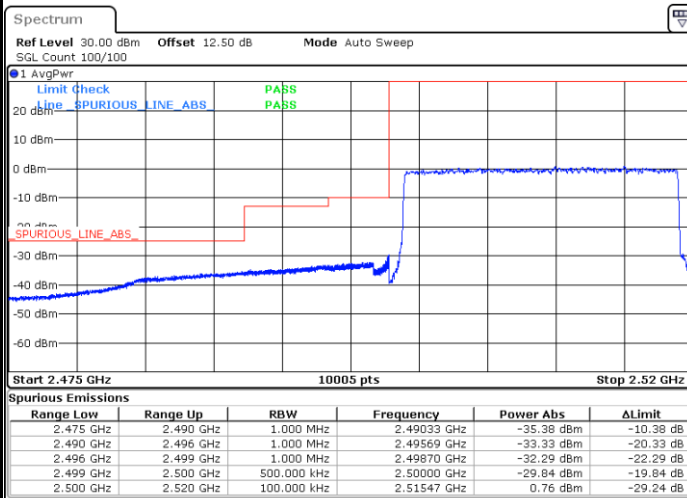
Date: 27.JAN.2022 17:58:17

Highest Band Edge / 1 RB



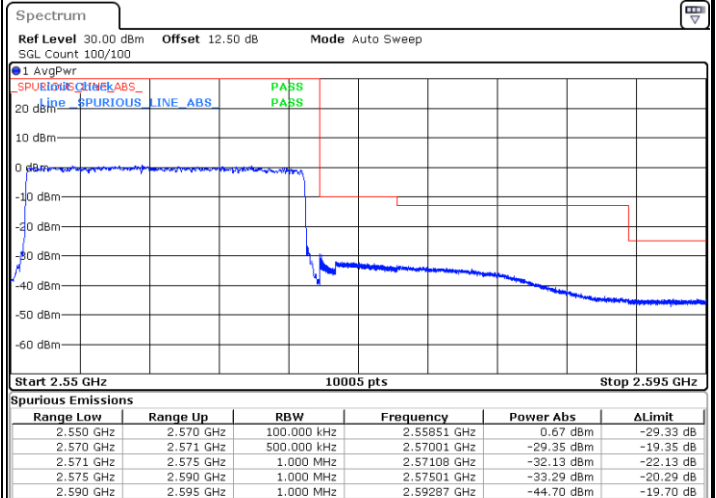
Date: 27.JAN.2022 18:05:00

Lowest Band Edge / Full RB



Date: 27.JAN.2022 17:59:59

Highest Band Edge / Full RB

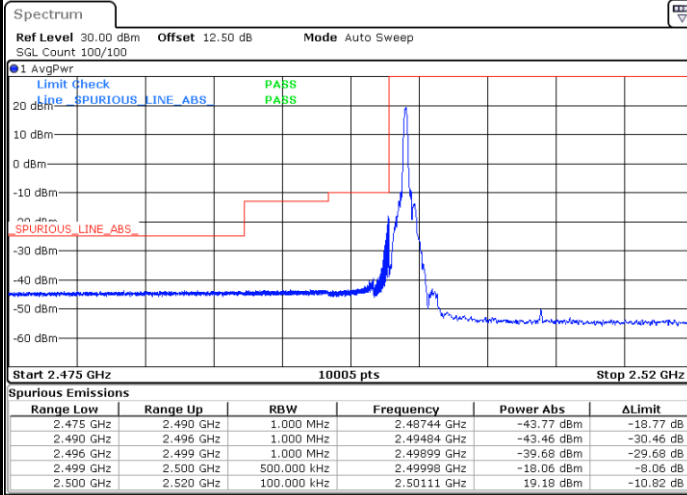


Date: 27.JAN.2022 18:05:51



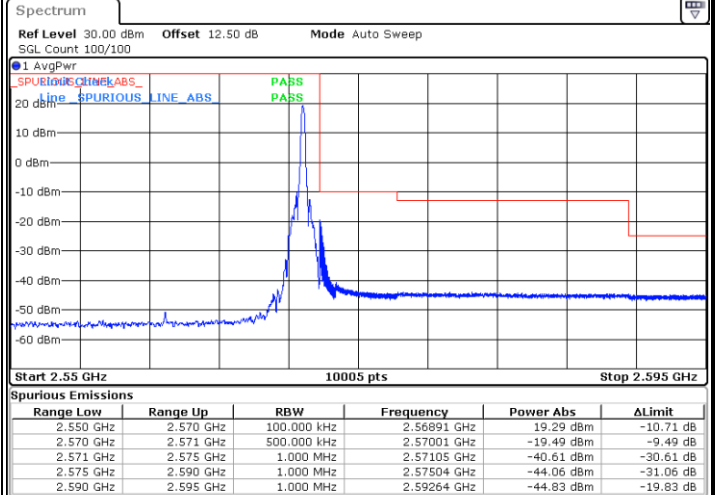
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



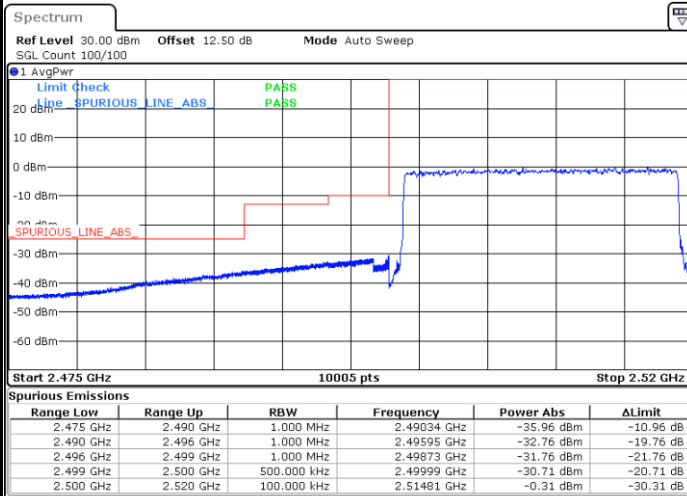
Date: 27.JAN.2022 18:08:31

Highest Band Edge / 1 RB



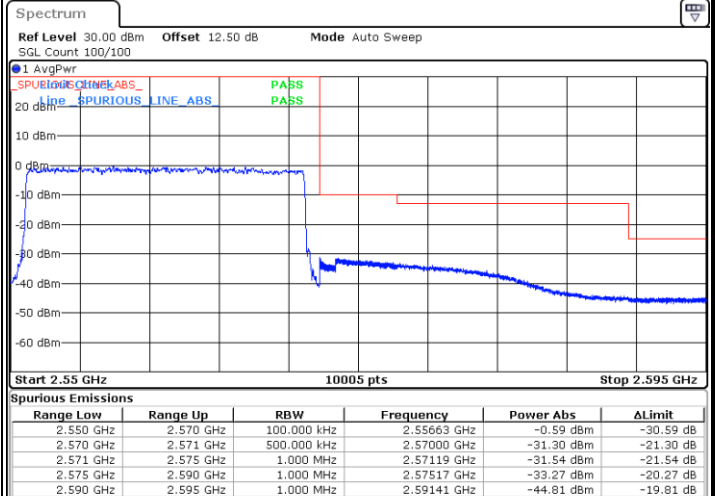
Date: 27.JAN.2022 18:10:53

Lowest Band Edge / Full RB



Date: 27.JAN.2022 18:09:22

Highest Band Edge / Full RB



Date: 27.JAN.2022 18:11:44



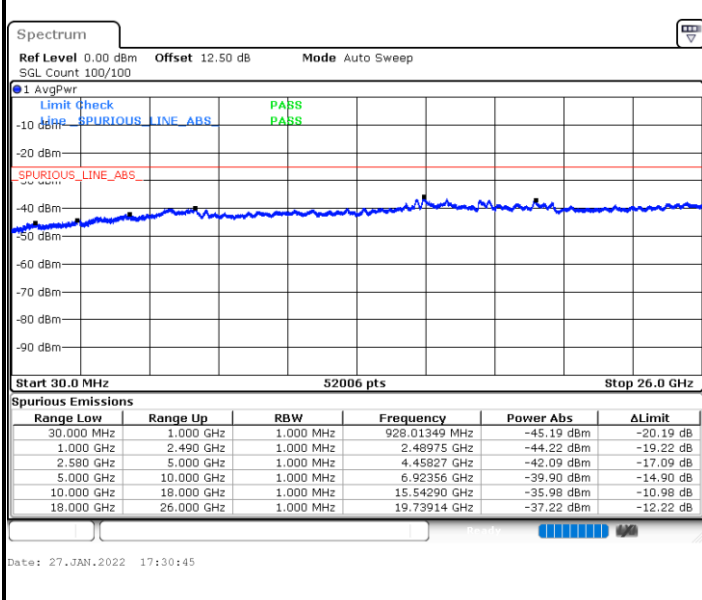
Conducted Spurious Emission



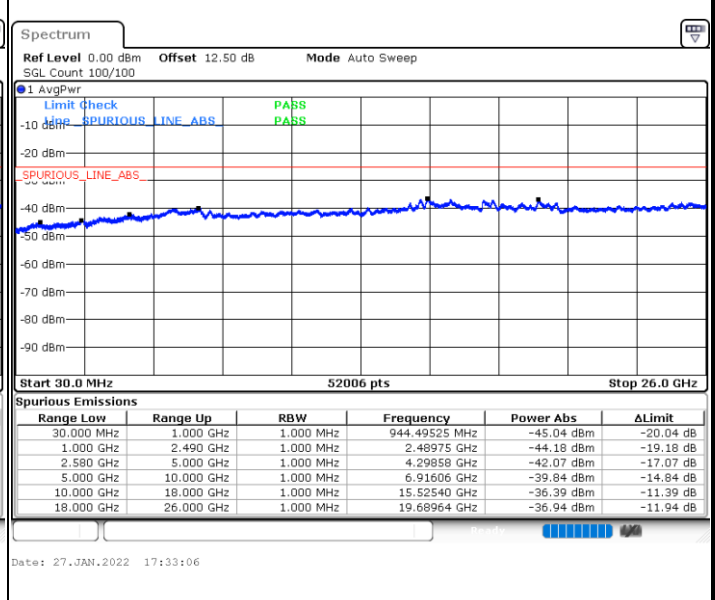


LTE Band 7 / 10MHz

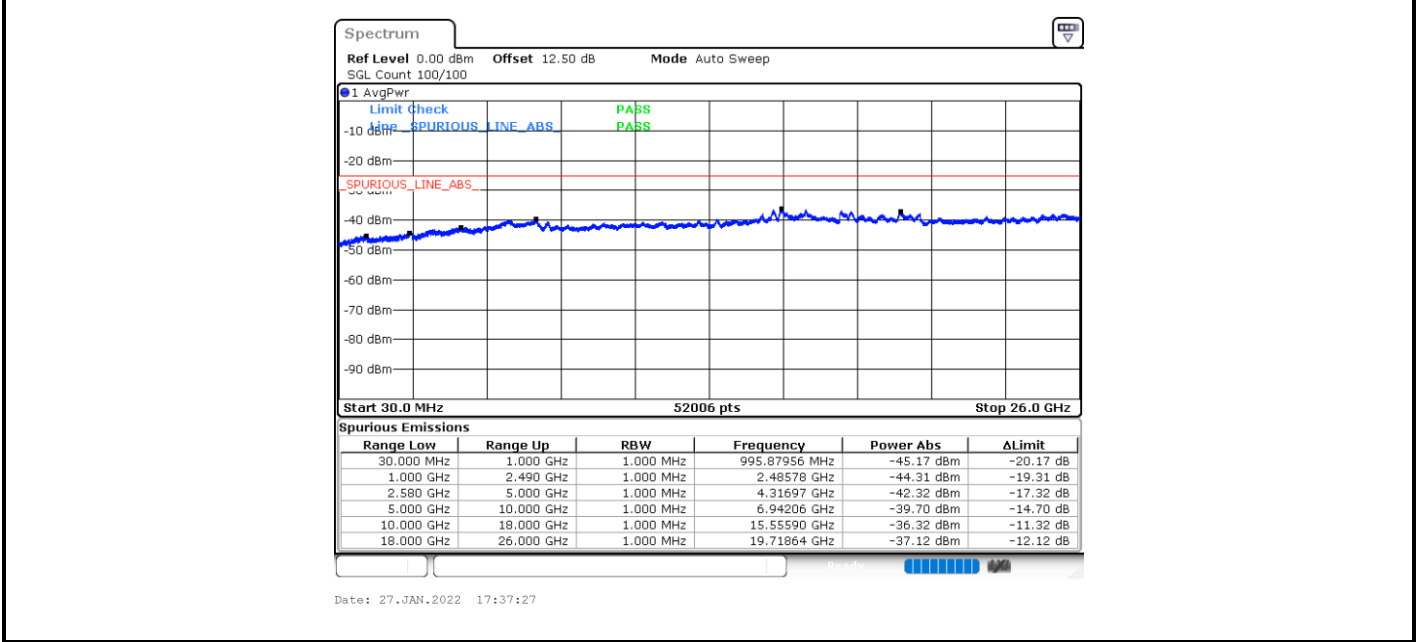
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

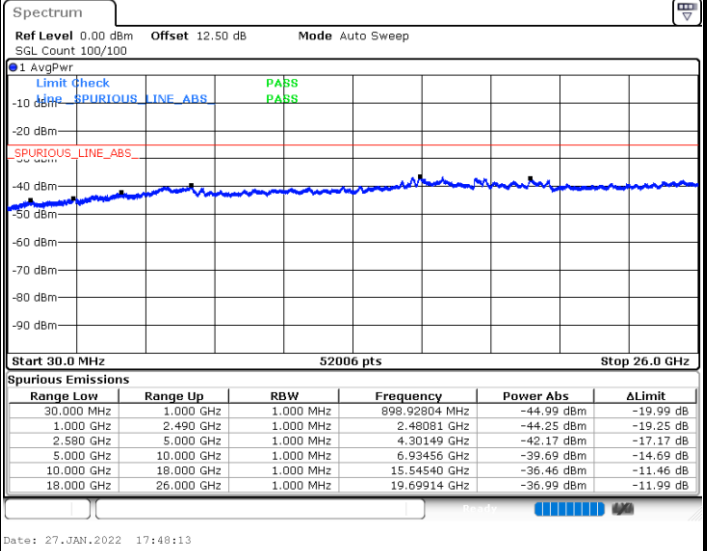
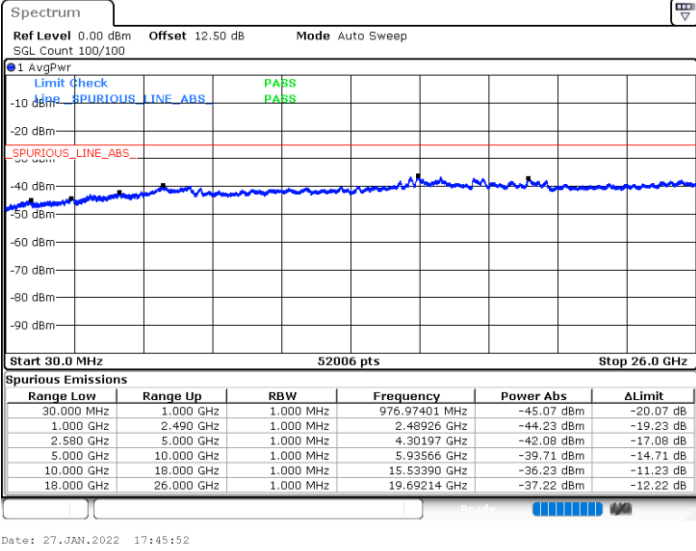




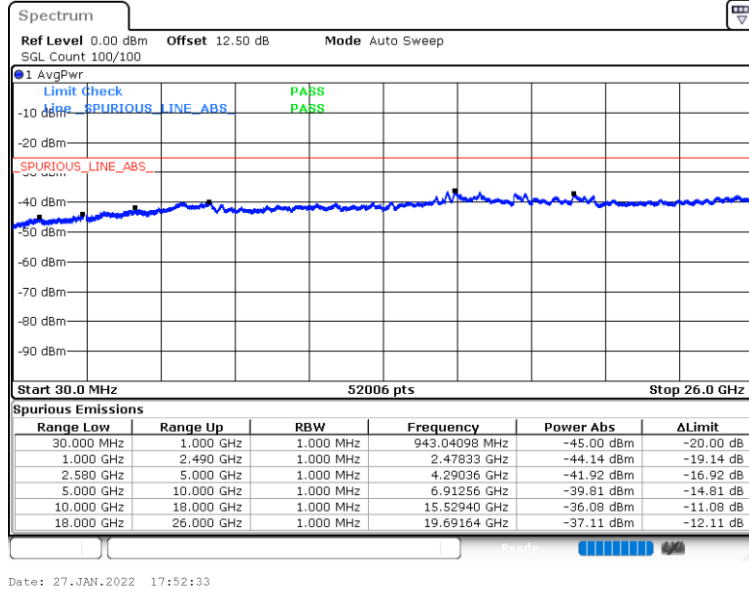
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

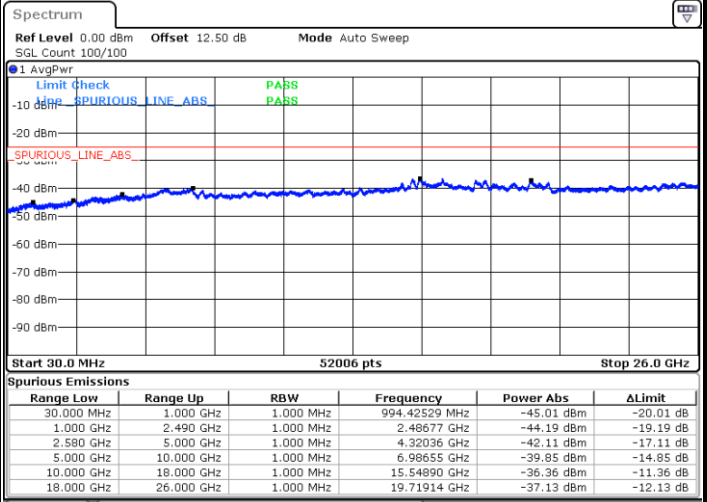
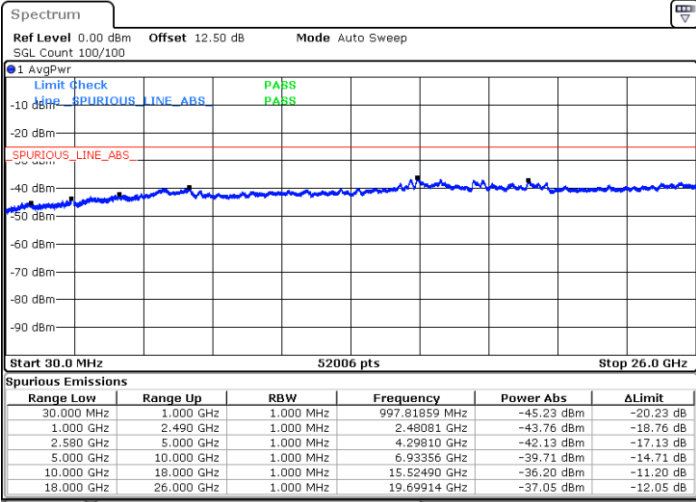




LTE Band 7 / 20MHz

Lowest Channel / QPSK

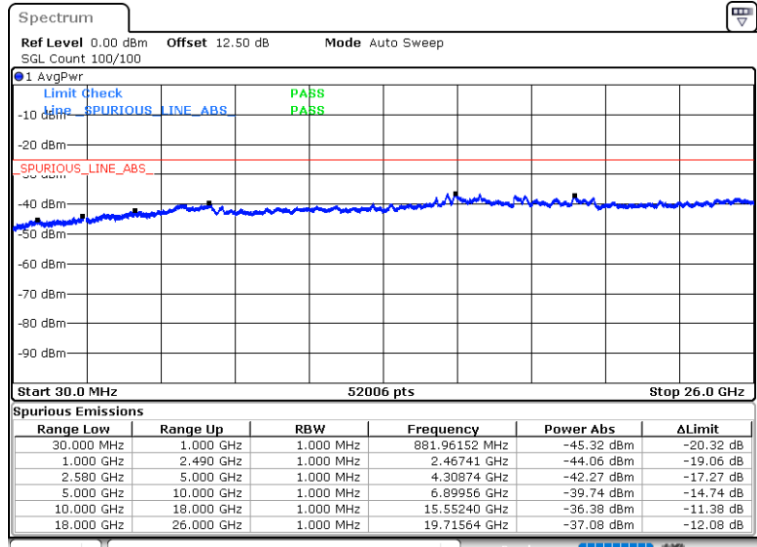
Middle Channel / QPSK



Date: 27.JAN.2022 18:00:58

Date: 27.JAN.2022 18:03:20

Highest Channel / QPSK



Date: 27.JAN.2022 18:07:40



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0050	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0066	

Note:

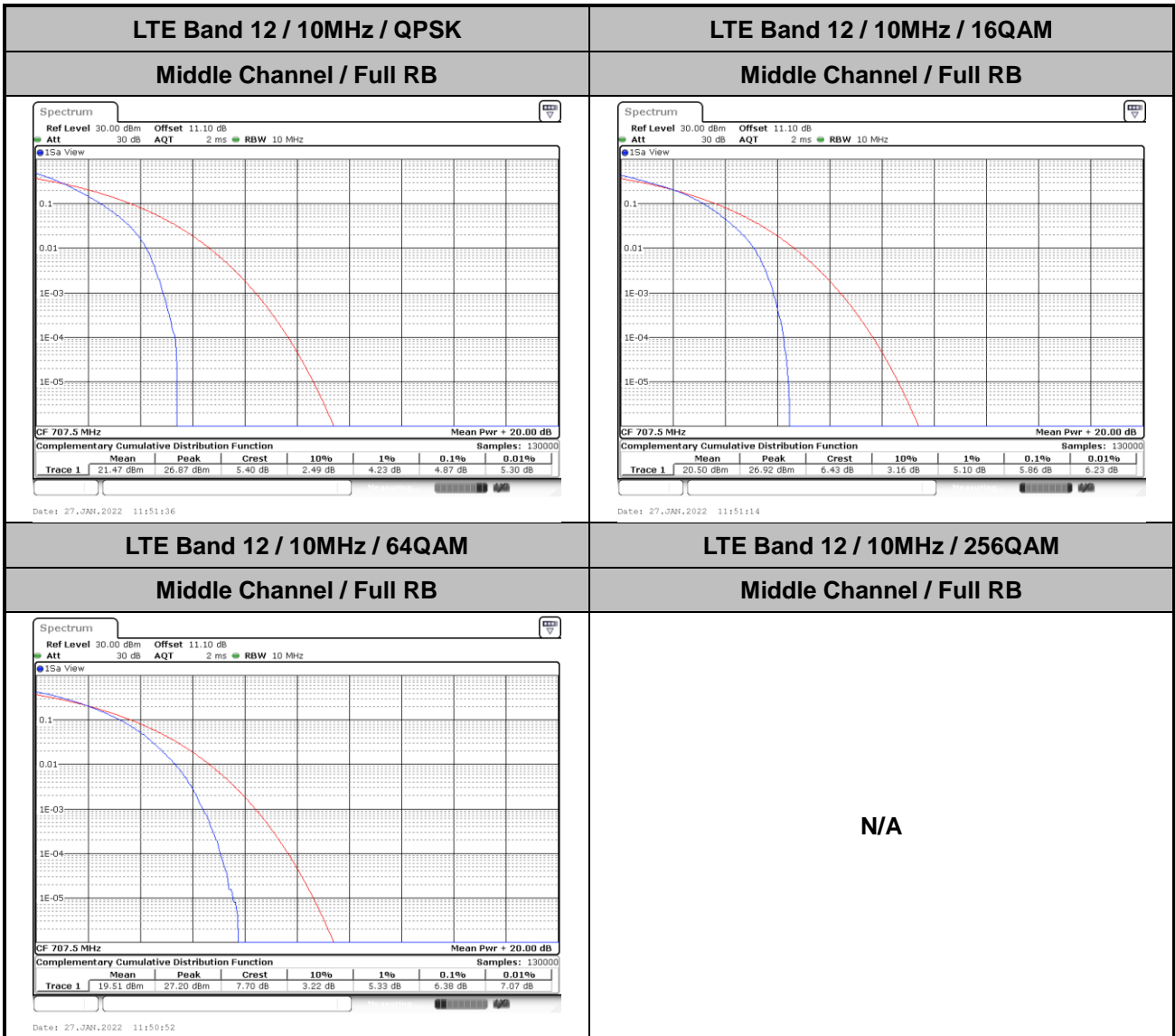
- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.86	6.38	PASS





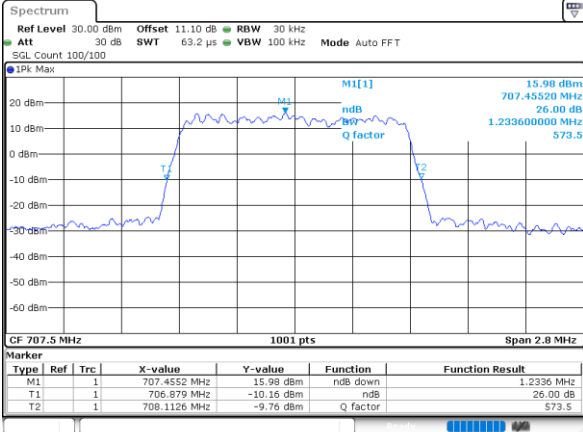
26dB Bandwidth

Mode	LTE Band 12 : 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	1.23	1.23	3.03	2.96	4.93	4.94	9.63	9.65	-	-	-	-
Mode	LTE Band 12 : 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	1.23	-	3.01	-	4.88	-	9.83	-	-	-	-	-



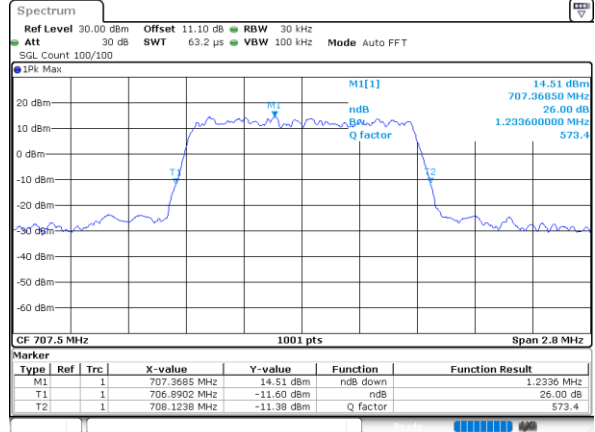
LTE Band 12

Middle Channel / 1.4MHz / QPSK



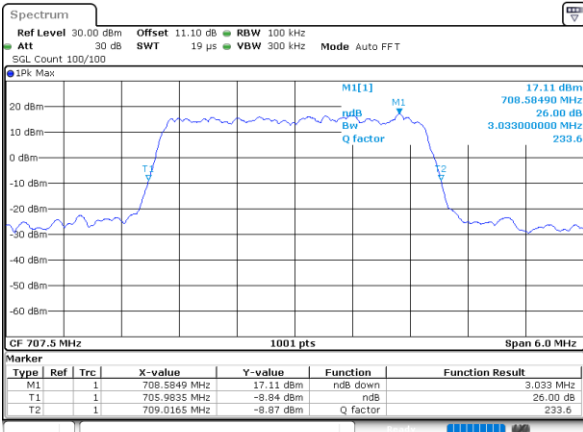
Date: 27_JAN,2022 11:00:38

Middle Channel / 1.4MHz / 16QAM



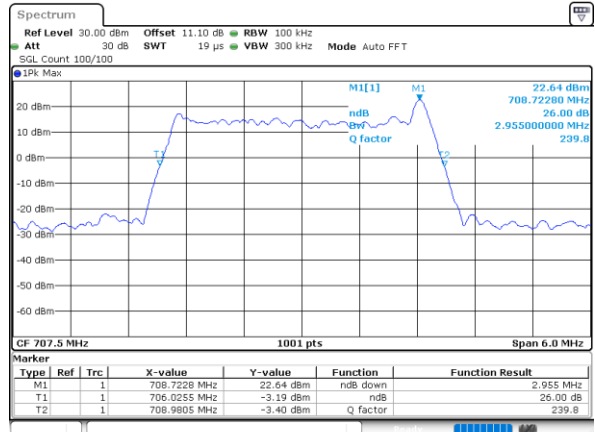
Date: 27_JAN,2022 11:00:59

Middle Channel / 3MHz / QPSK



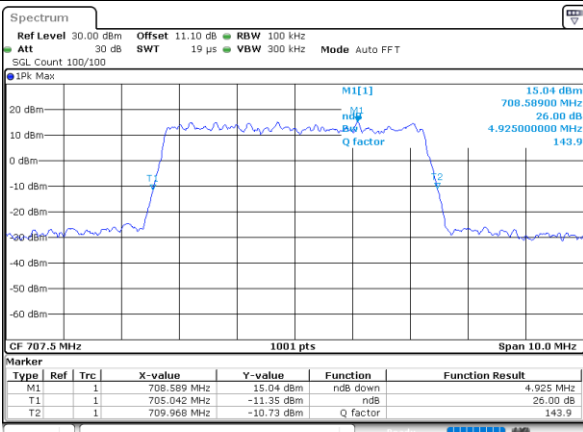
Date: 27_JAN,2022 11:14:18

Middle Channel / 3MHz / 16QAM



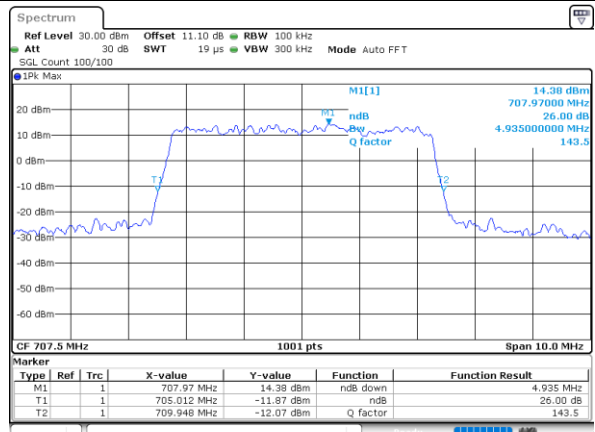
Date: 27_JAN,2022 11:14:39

Middle Channel / 5MHz / QPSK



Date: 27_JAN,2022 11:31:23

Middle Channel / 5MHz / 16QAM



Date: 27_JAN,2022 13:51:36