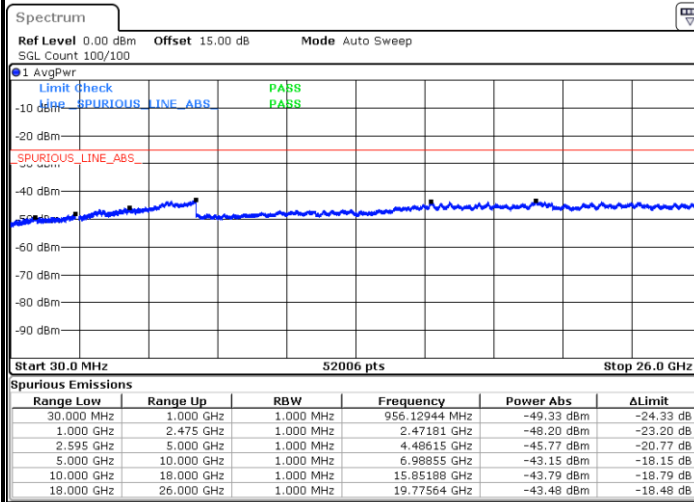




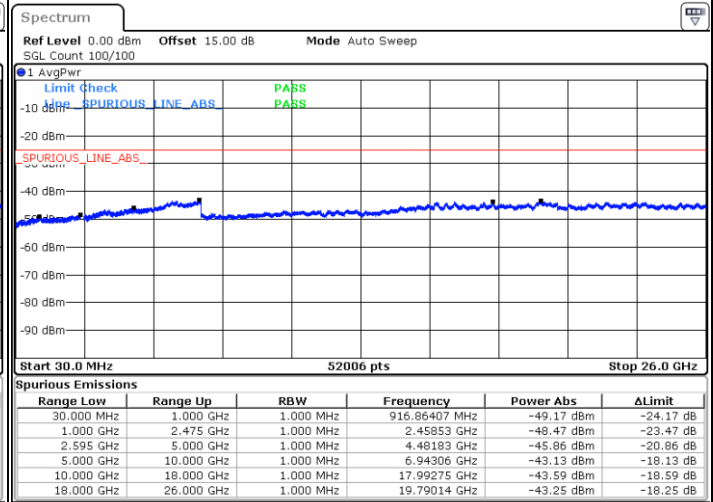
LTE Band 7 / 20MHz

Middle Channel / QPSK



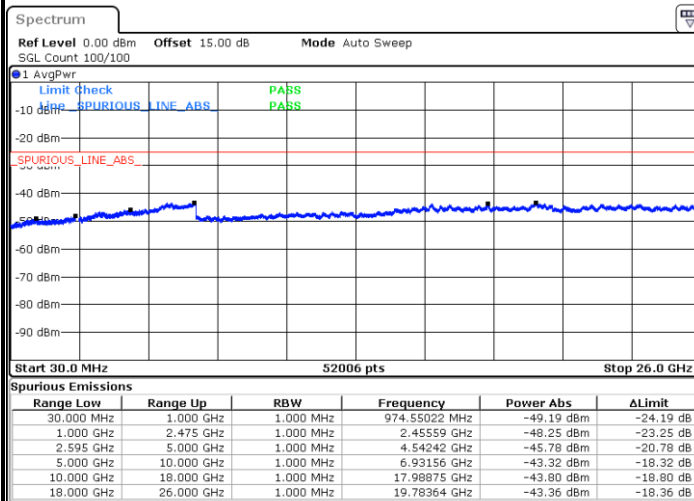
Date: 7.JUL.2022 02:24:10

Middle Channel / 16QAM



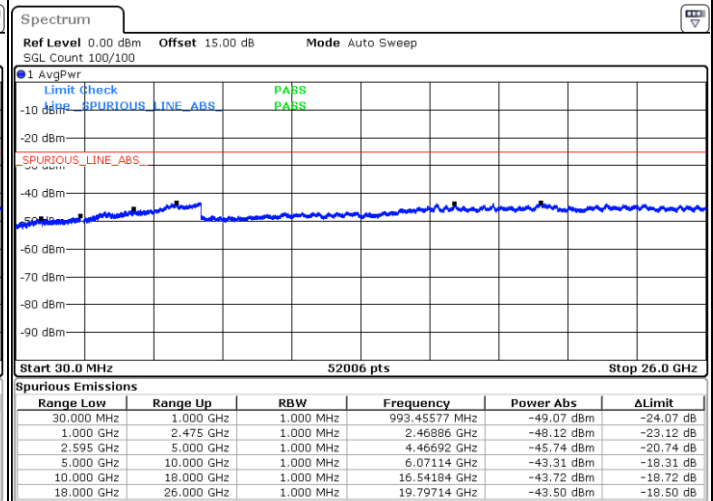
Date: 7.JUL.2022 02:25:22

Highest Channel / QPSK



Date: 7.JUL.2022 02:26:35

Highest Channel / 16QAM

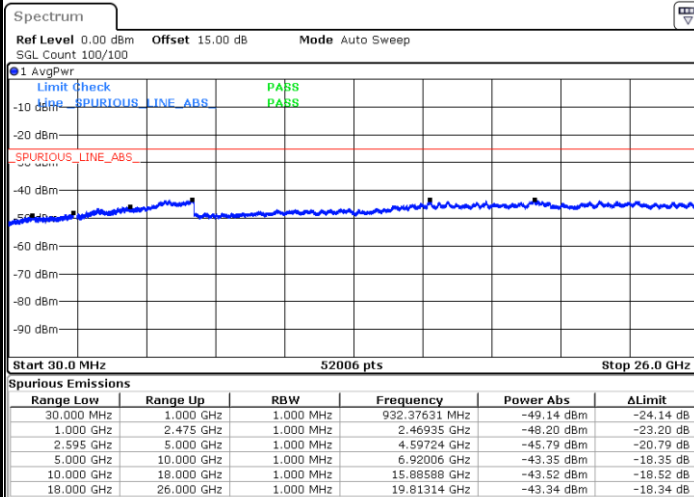


Date: 7.JUL.2022 02:27:48



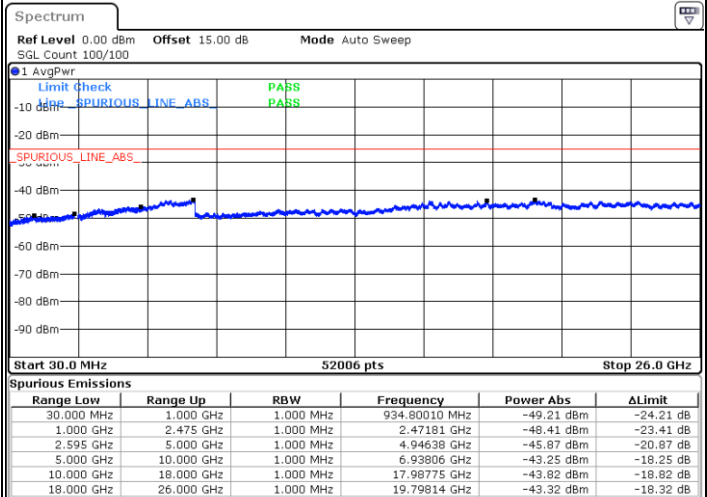
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



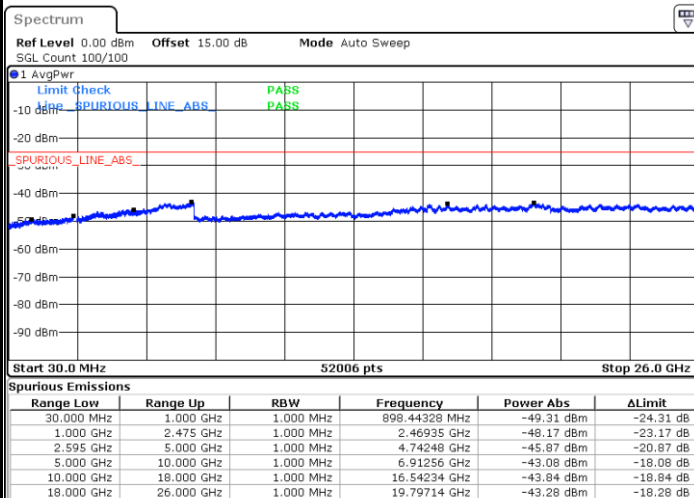
Date: 7.JUL.2022 01:56:31

Middle Channel / 64QAM



Date: 7.JUL.2022 01:57:42

Highest Channel / 64QAM

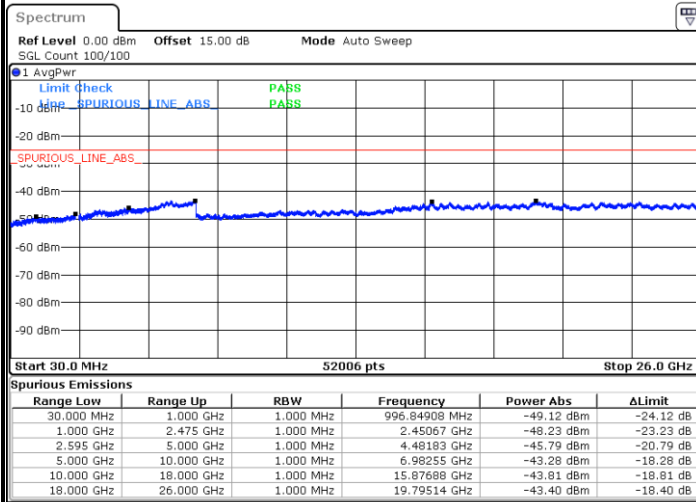


Date: 7.JUL.2022 01:58:55



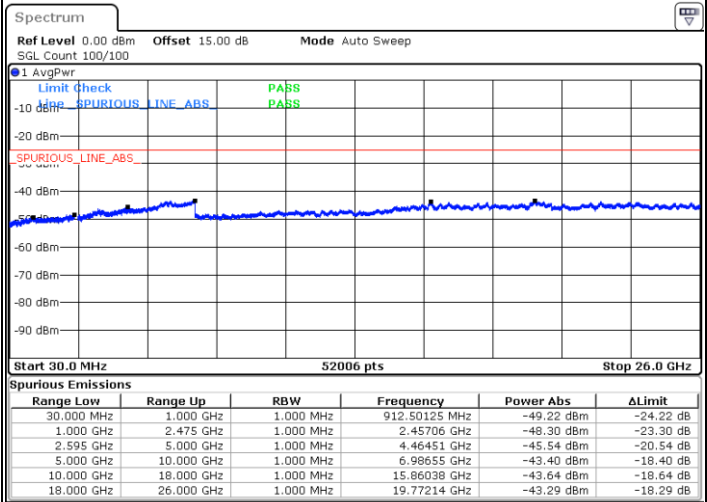
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



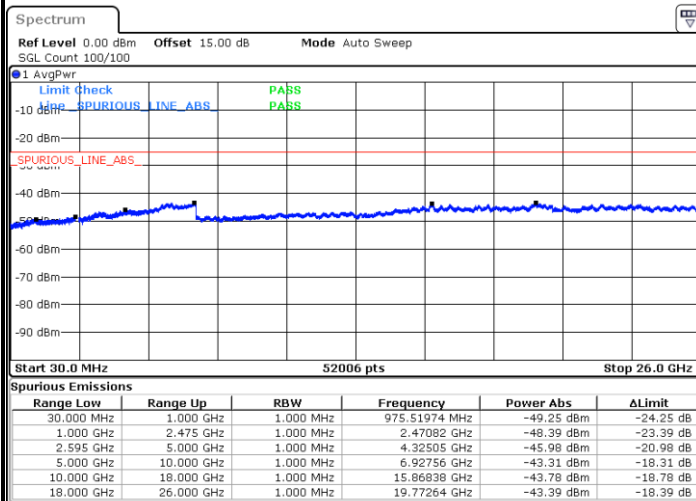
Date: 7.JUL.2022 02:07:19

Middle Channel / 64QAM



Date: 7.JUL.2022 02:08:30

Highest Channel / 64QAM

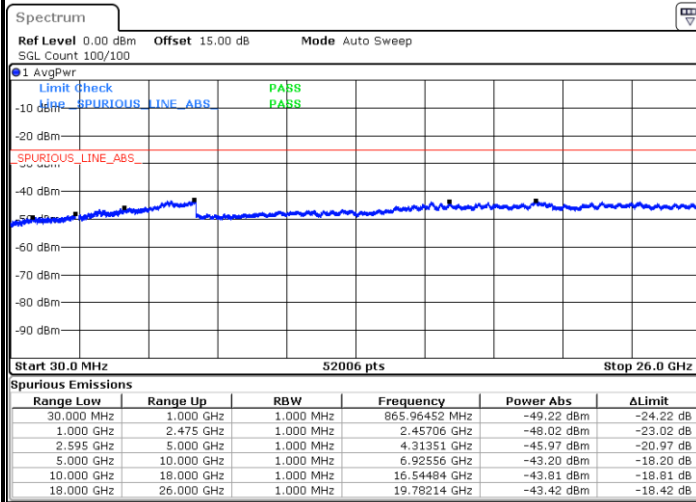


Date: 7.JUL.2022 02:09:42



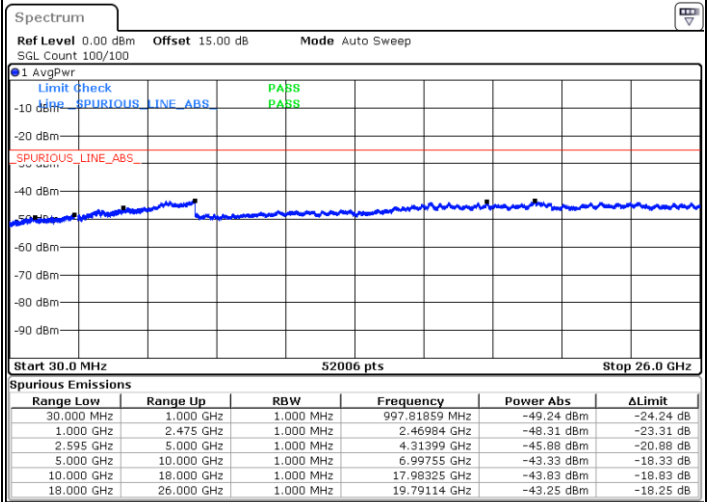
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



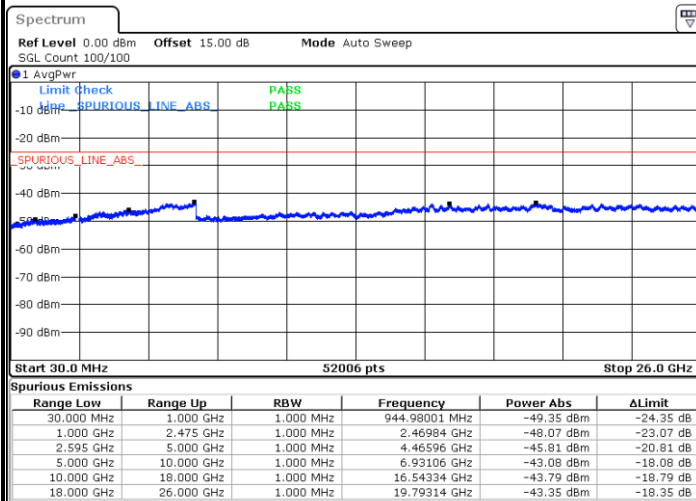
Date: 7.JUL.2022 02:18:06

Middle Channel / 64QAM



Date: 7.JUL.2022 02:19:19

Highest Channel / 64QAM

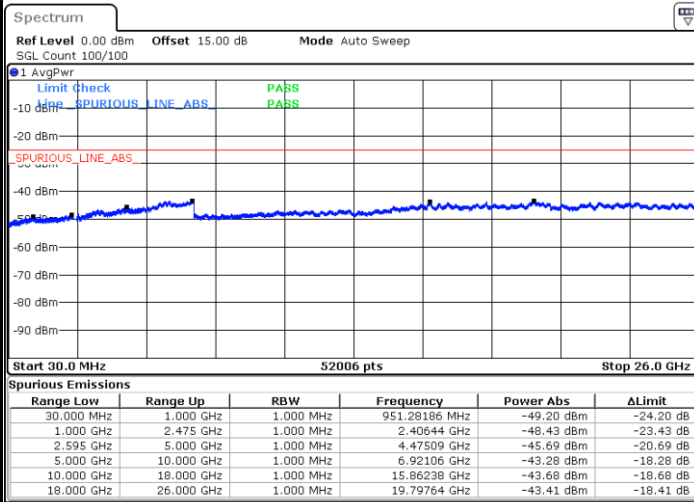


Date: 7.JUL.2022 02:20:31



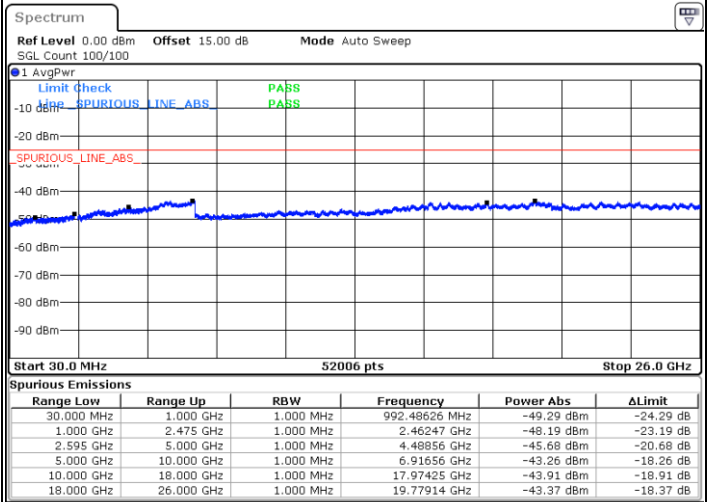
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



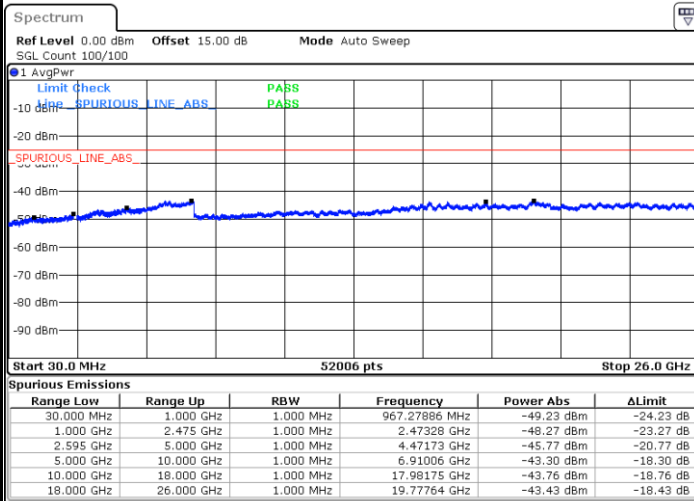
Date: 7.JUL.2022 02:29:01

Middle Channel / 64QAM



Date: 7.JUL.2022 02:30:13

Highest Channel / 64QAM



Date: 7.JUL.2022 02:31:26

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	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

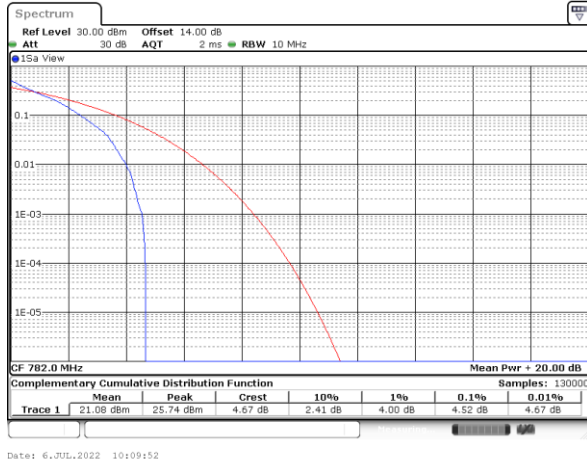
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.52	5.22	6.09	6.06	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.43	6.12	-	-	
Highest CH	-	-	-	-	

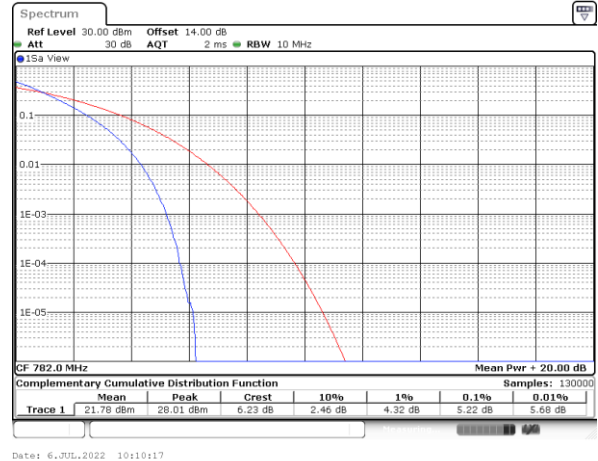


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

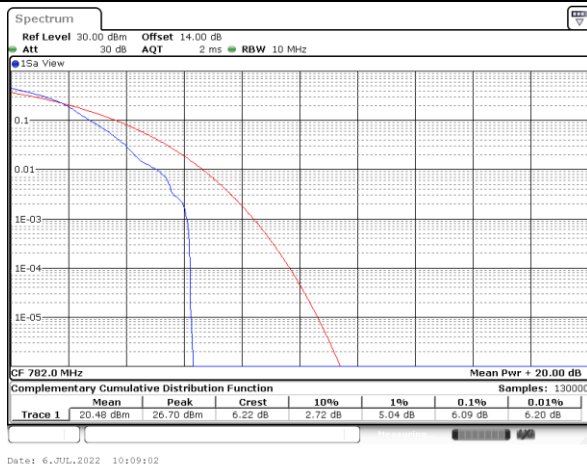


Middle Channel / Full RB

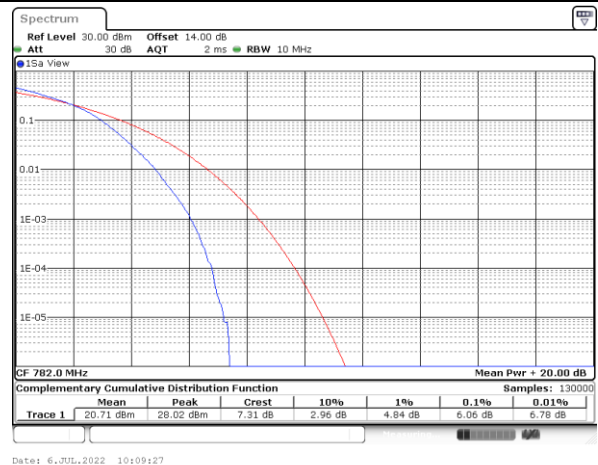


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

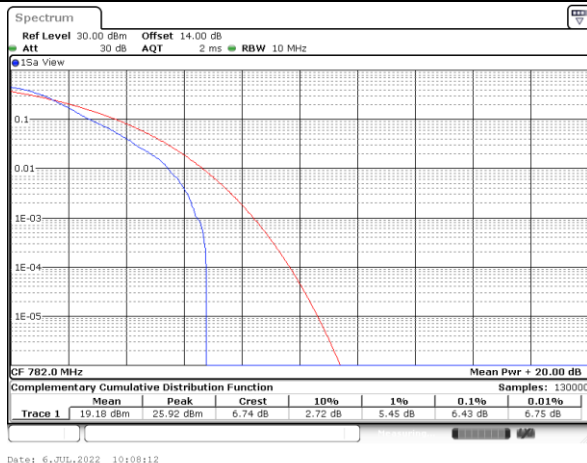


Middle Channel / Full RB

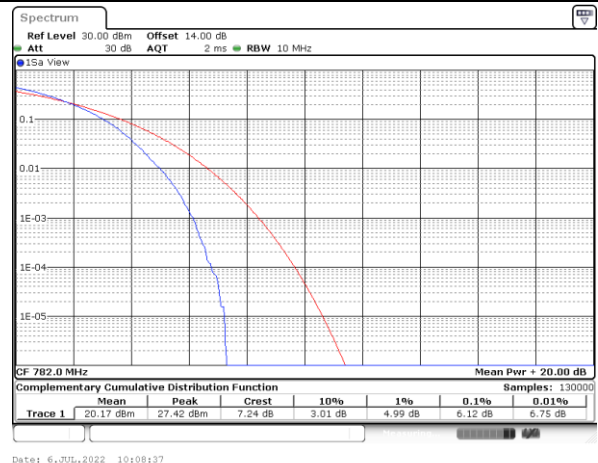


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB



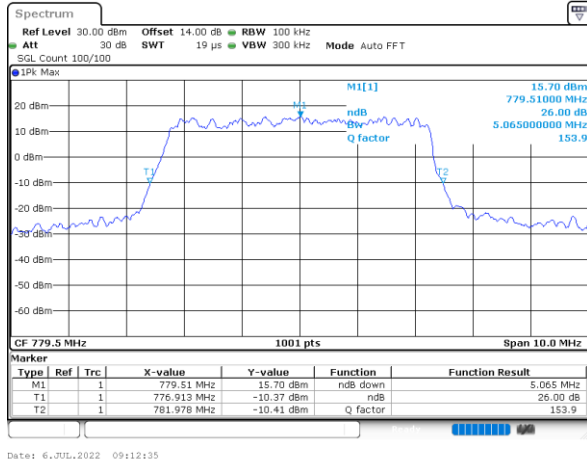
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.07	4.95	-	-	-	-	-	-
Middle CH	-	-	-	-	4.97	4.98	9.79	9.71	-	-	-	-
Highest CH	-	-	-	-	5.19	5.08	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.85	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.97	-	9.87	-	-	-	-	-
Highest CH	-	-	-	-	5.06	-	-	-	-	-	-	-

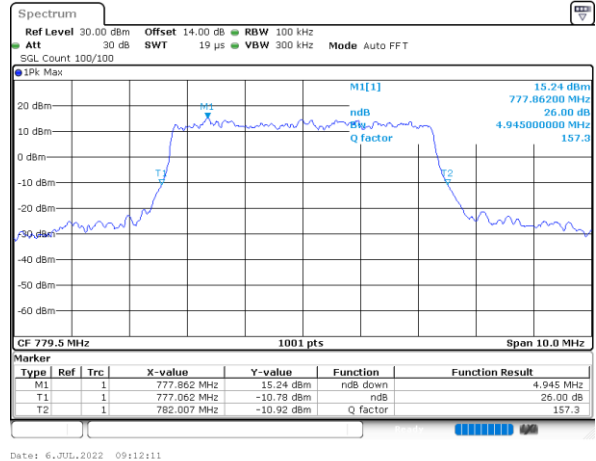


LTE Band 13

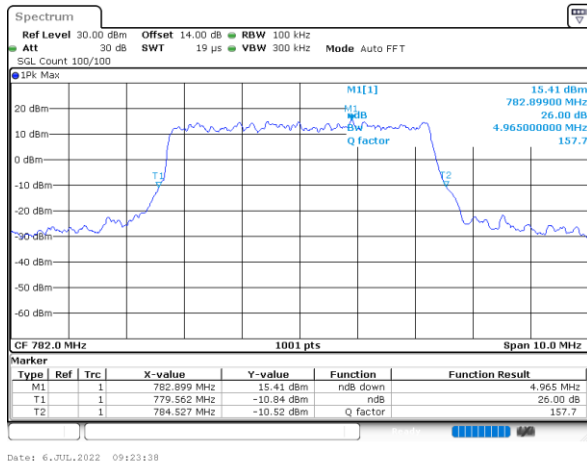
Lowest Channel / 5MHz / QPSK



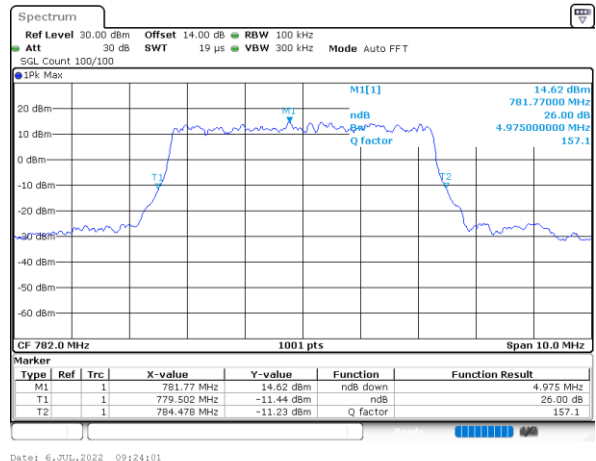
Lowest Channel / 5MHz / 16QAM



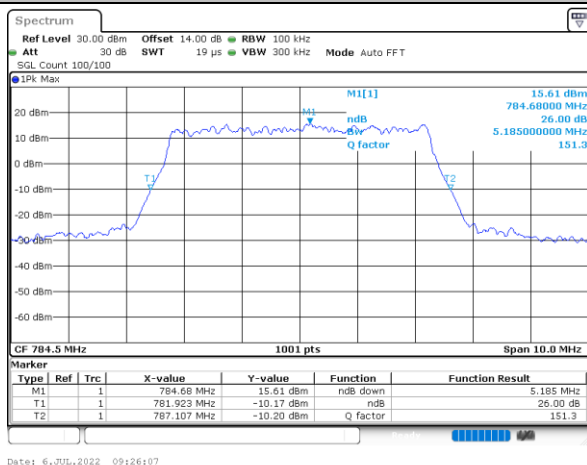
Middle Channel / 5MHz / QPSK



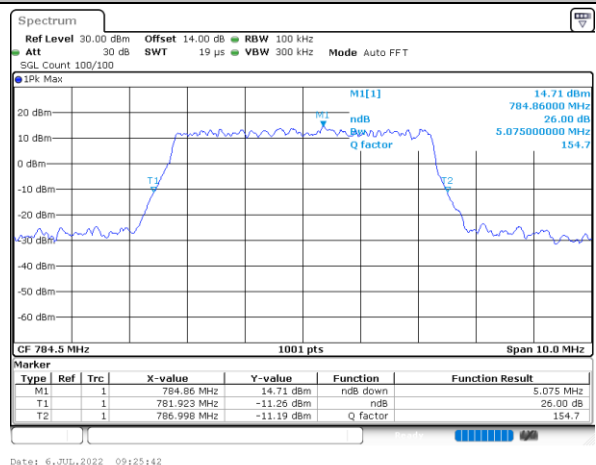
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



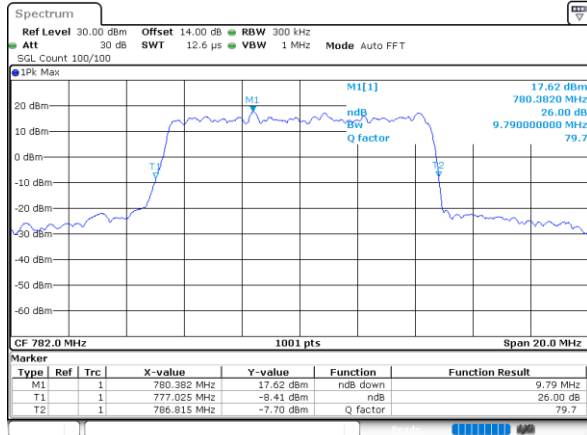
Highest Channel / 5MHz / 16QAM





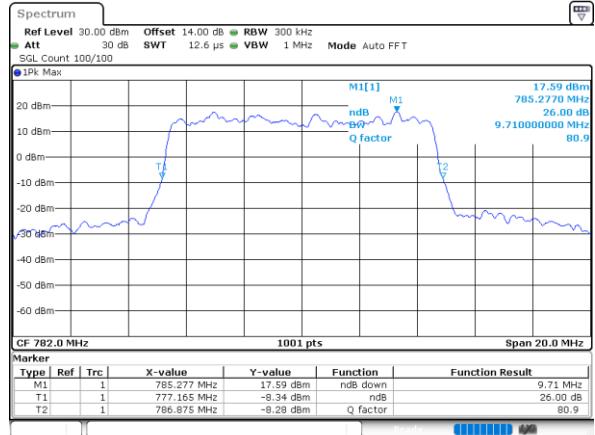
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 6.JUL.2022 09:48:13

Middle Channel / 10MHz / 16QAM

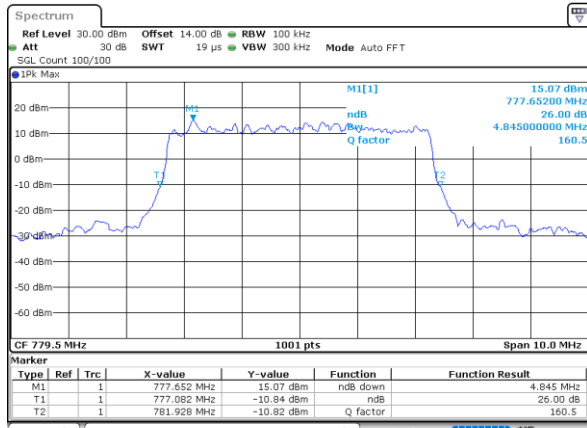


Date: 6.JUL.2022 09:47:49



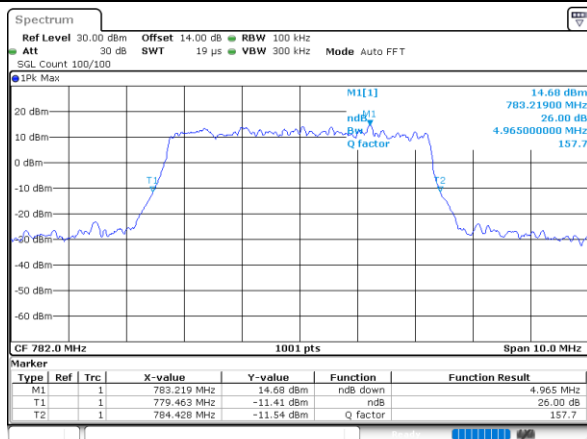
LTE Band 13

Lowest Channel / 5MHz / 64QAM



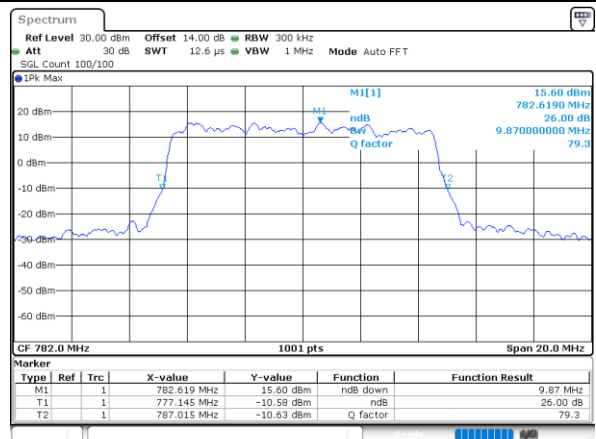
Date: 6,JUL,2022 09:35:51

Middle Channel / 5MHz / 64QAM



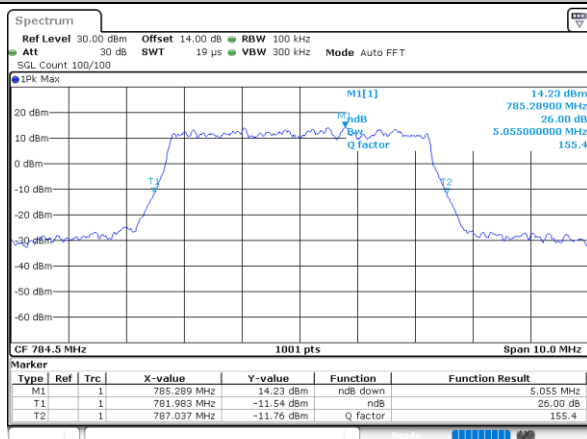
Date: 6,JUL,2022 09:41:25

Middle Channel / 10MHz / 64QAM



Date: 6,JUL,2022 10:01:37

Highest Channel / 5MHz / 64QAM



Date: 6,JUL,2022 09:42:19

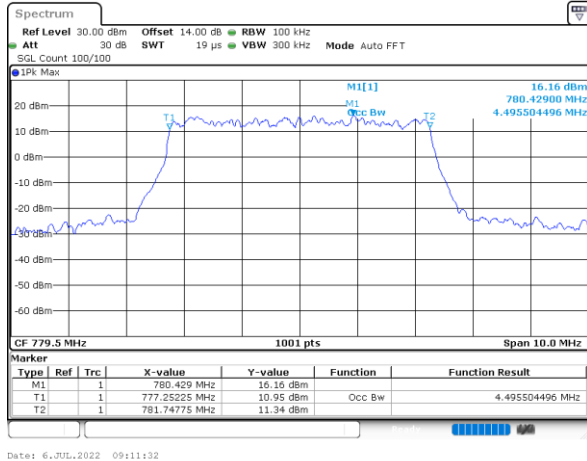
**Occupied Bandwidth**

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	9.07	9.07	-	-	-	-
Highest CH	-	-	-	-	4.52	4.49	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-

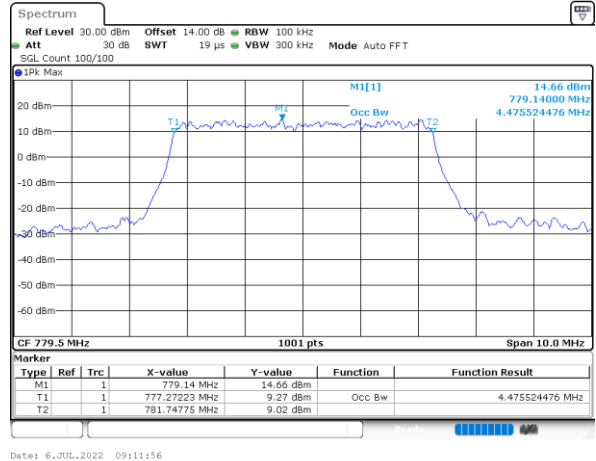


LTE Band 13

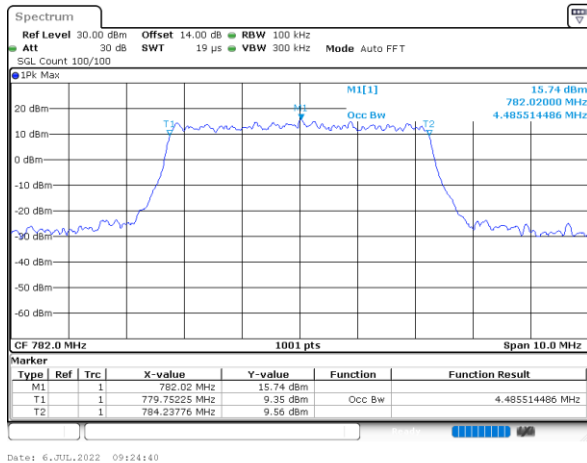
Lowest Channel / 5MHz / QPSK



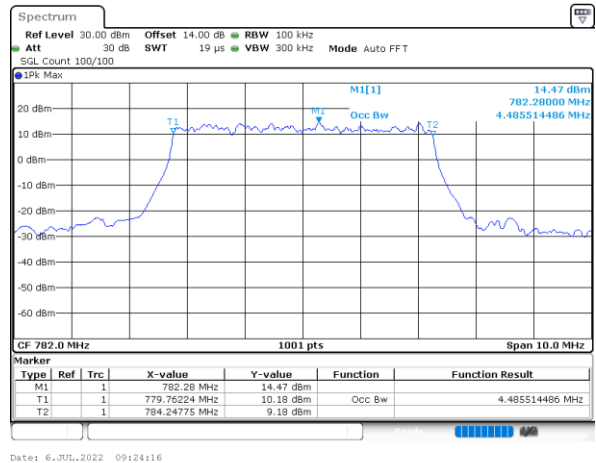
Lowest Channel / 5MHz / 16QAM



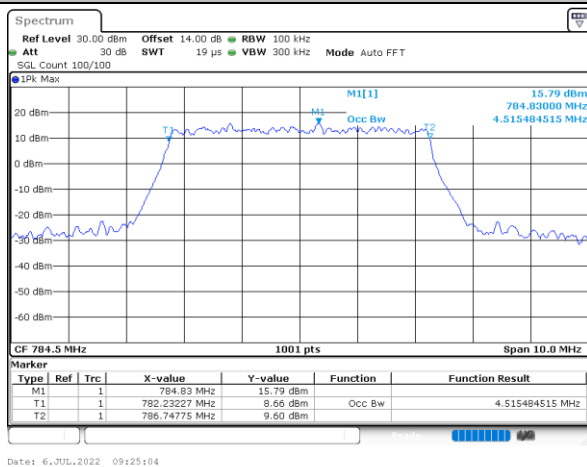
Middle Channel / 5MHz / QPSK



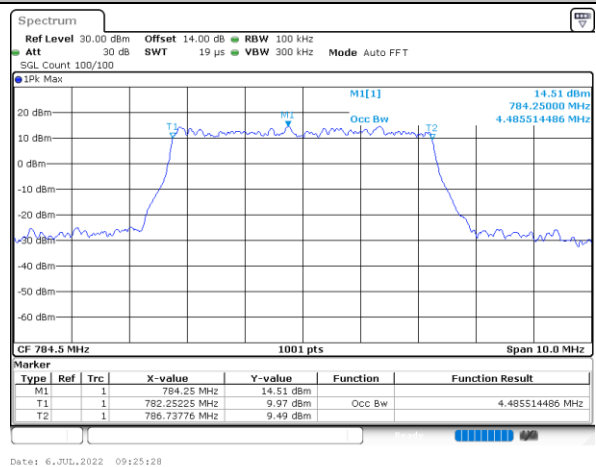
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



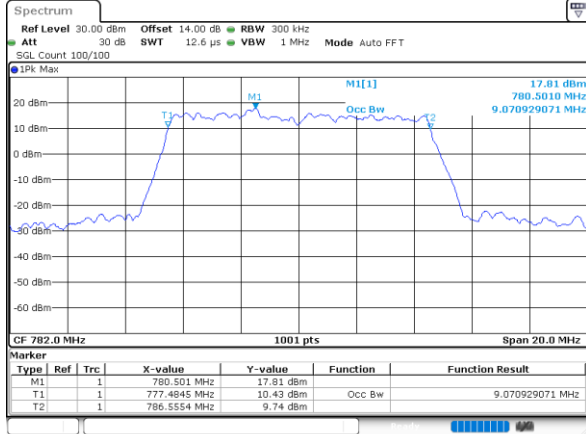
Highest Channel / 5MHz / 16QAM



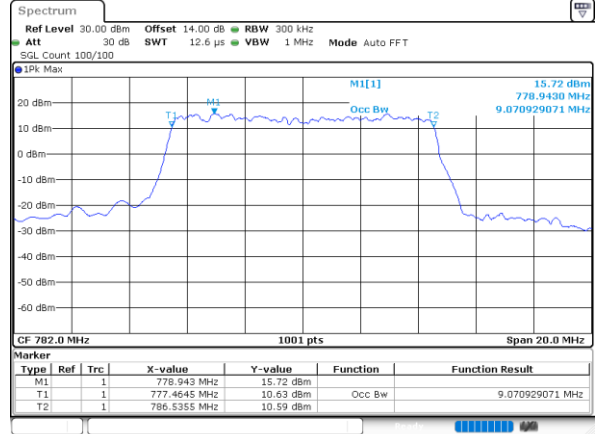


LTE Band 13

Middle Channel / 10MHz / QPSK



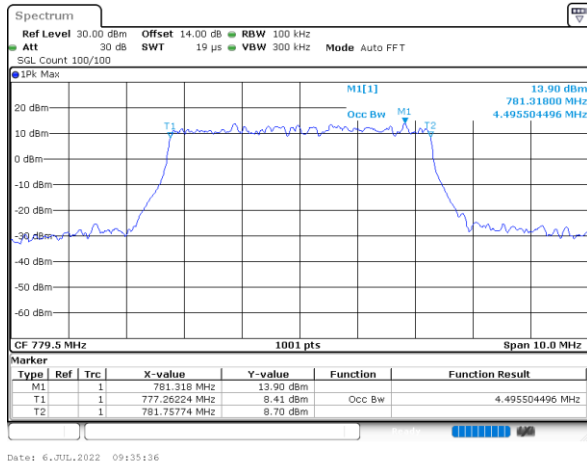
Middle Channel / 10MHz / 16QAM



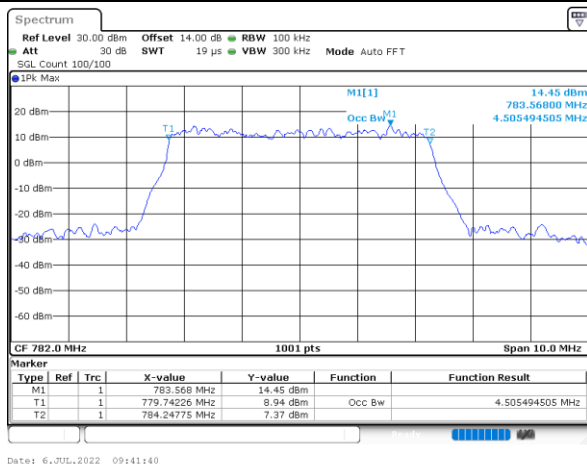


LTE Band 13

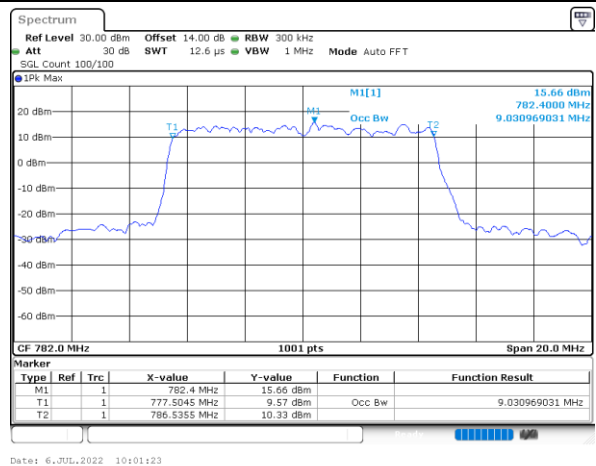
Lowest Channel / 5MHz / 64QAM



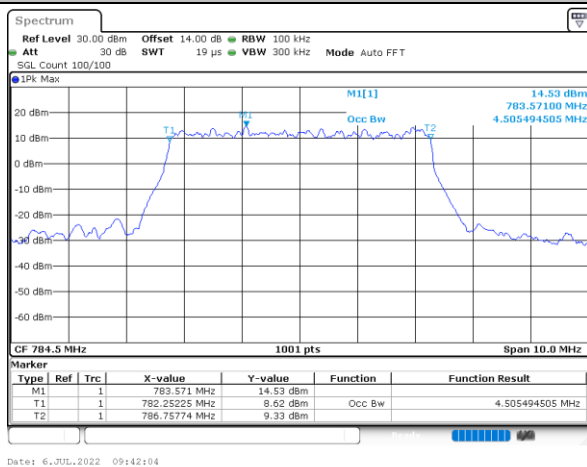
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

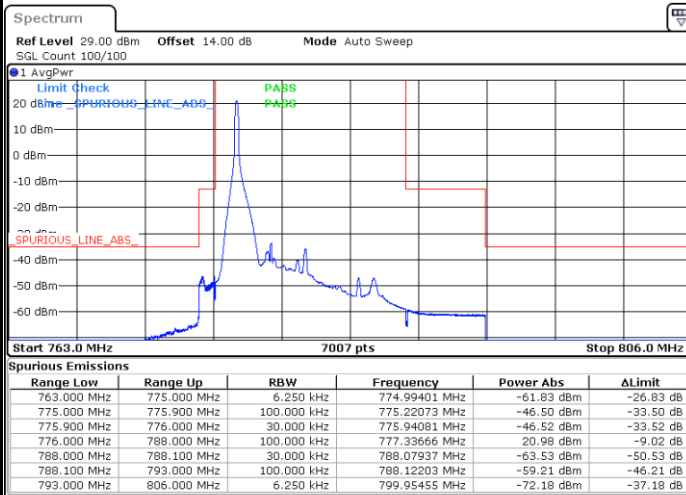




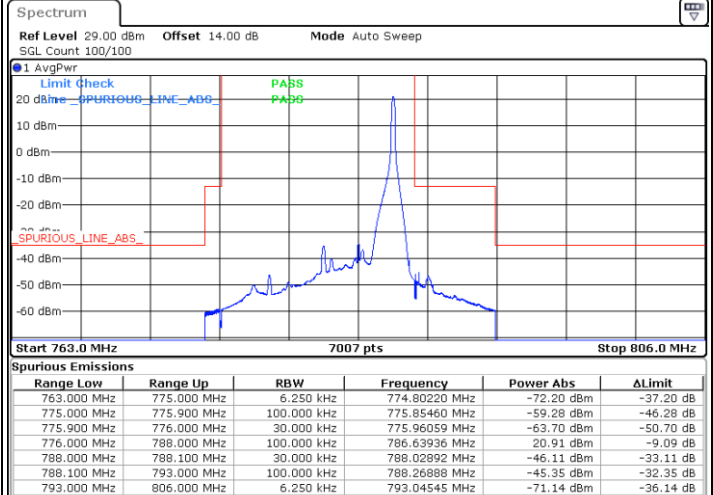
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

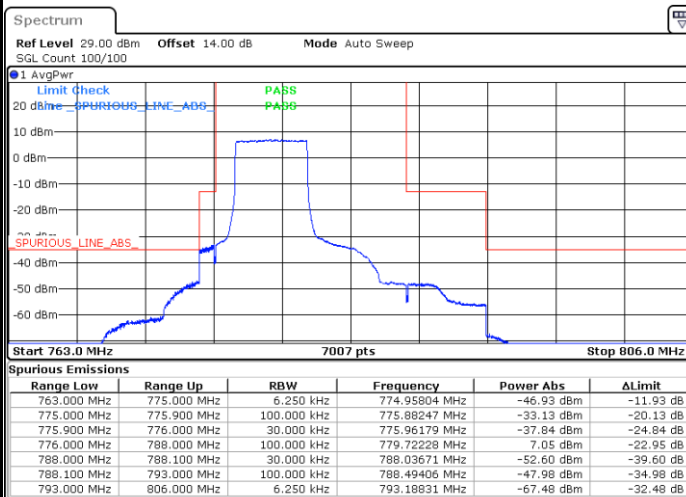
Lowest Band Edge / 1 RB



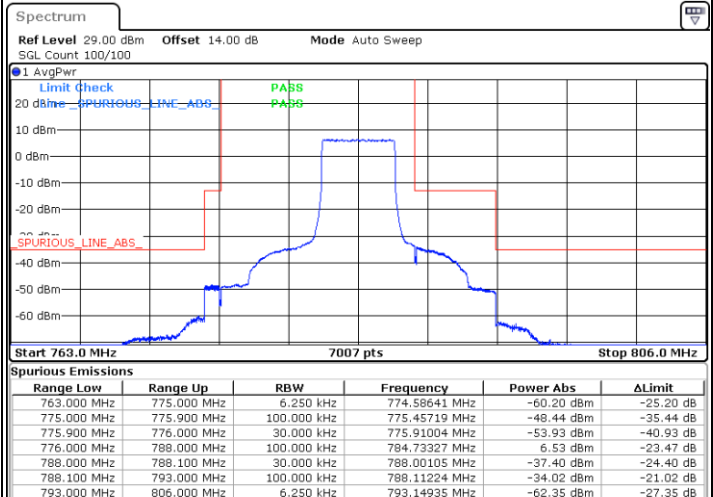
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



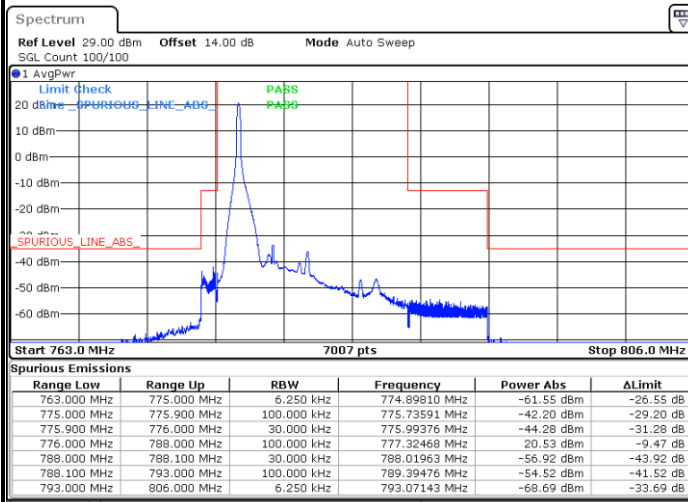
Highest Band Edge / Full RB



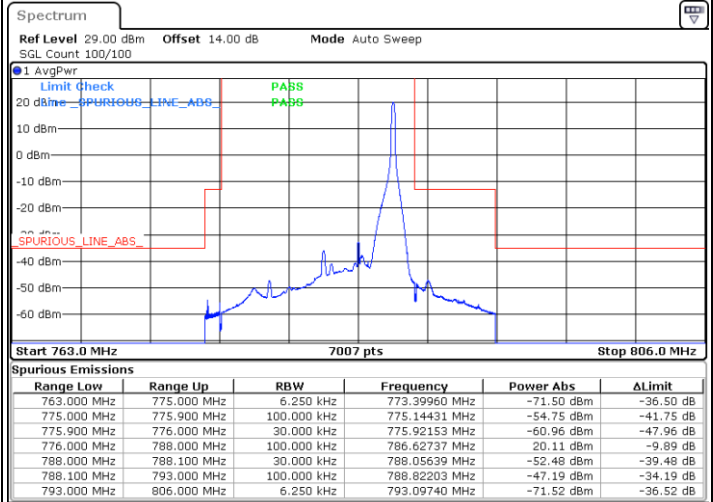


LTE Band 13 / 5MHz / 16QAM

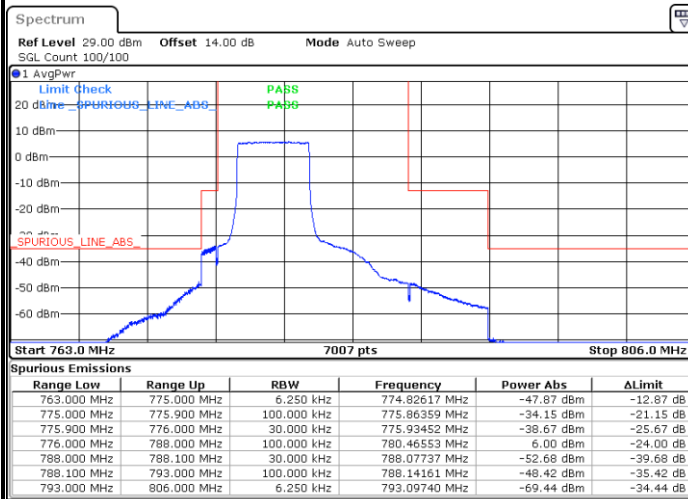
Lowest Band Edge / 1 RB



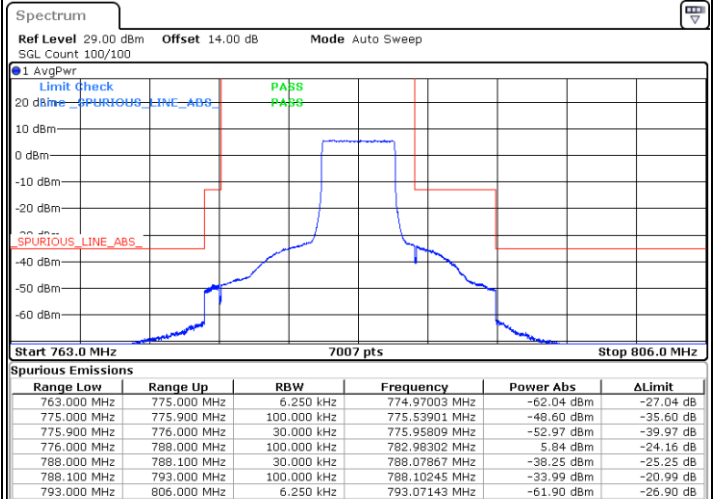
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



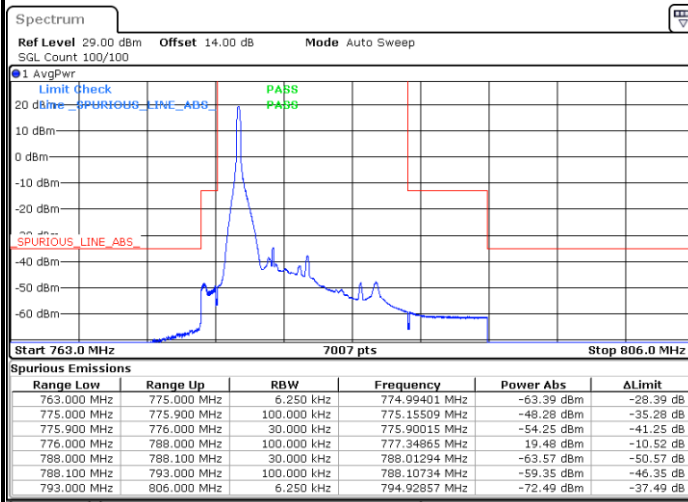
Highest Band Edge / Full RB



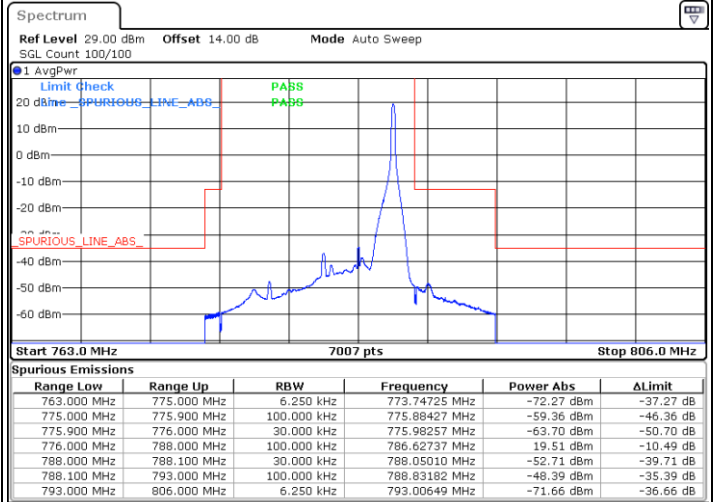


LTE Band 13 / 5MHz / 64QAM

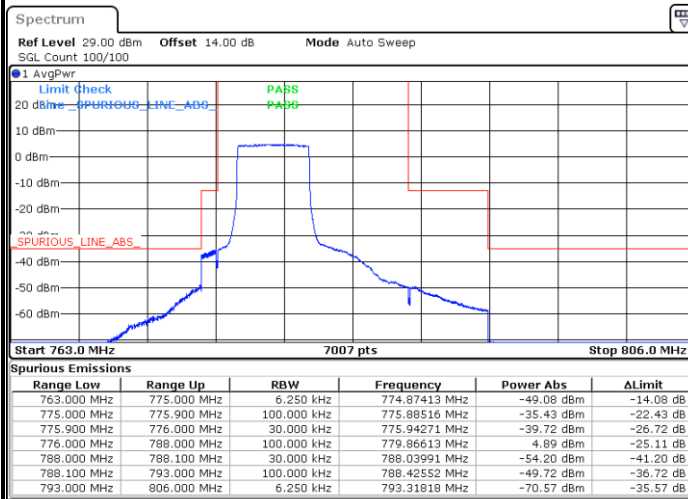
Lowest Band Edge / 1 RB



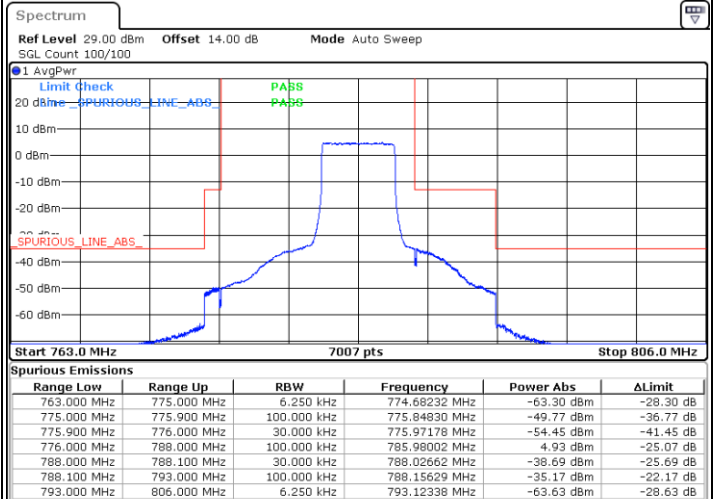
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



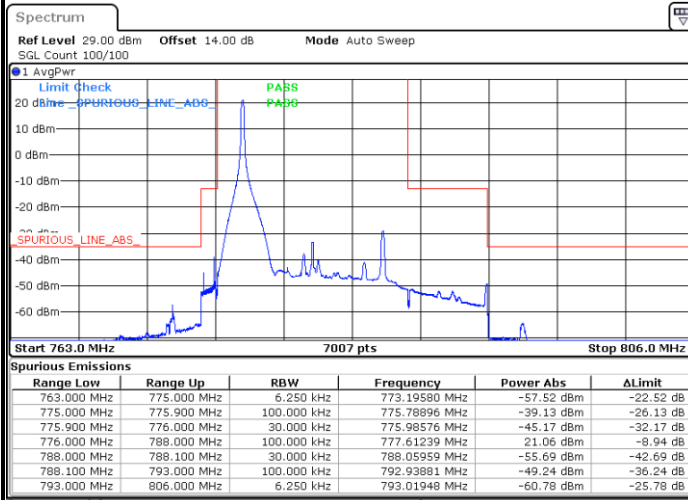
Highest Band Edge / Full RB





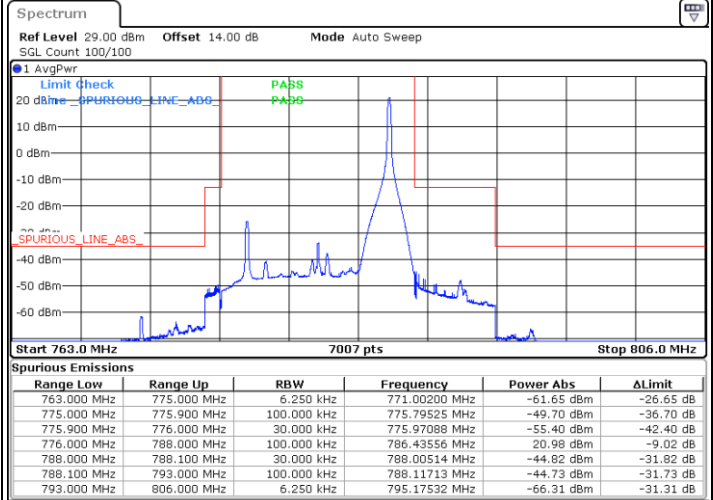
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



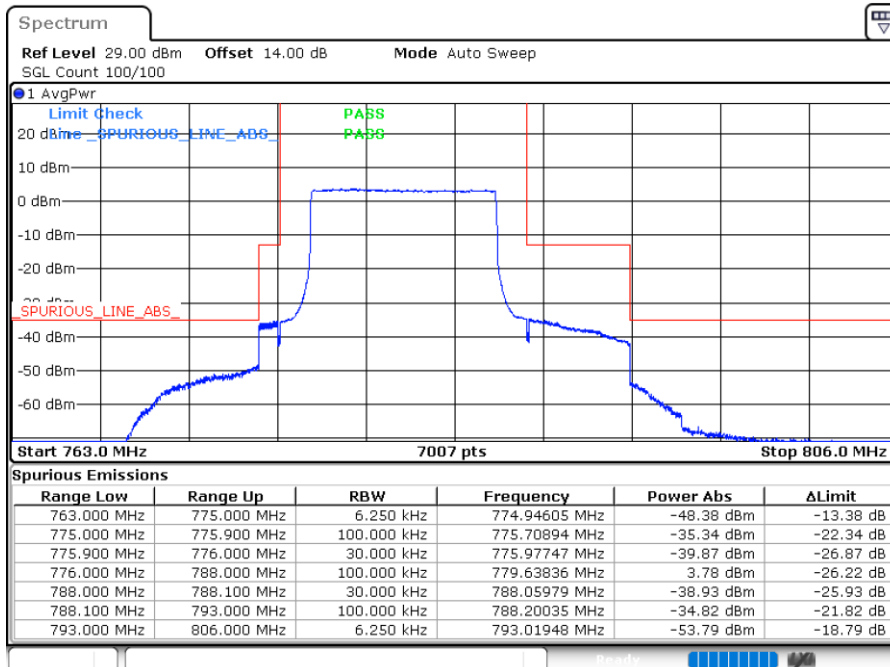
Date: 6.JUL.2022 09:55:32

Highest Band Edge / 1 RB



Date: 6.JUL.2022 09:57:24

Band Edge / Full RB

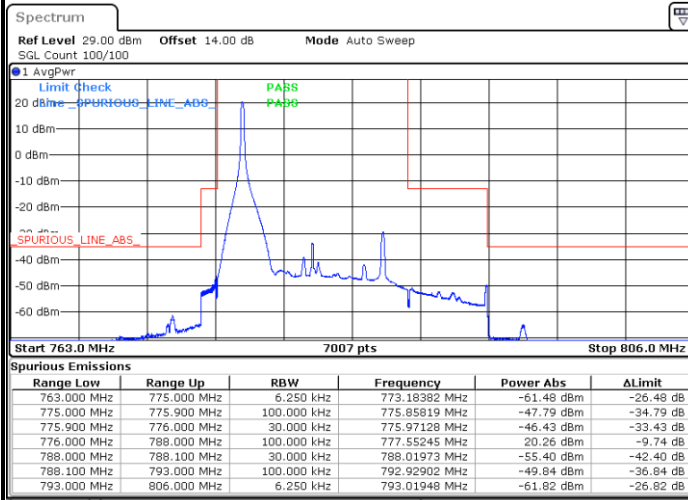


Date: 6.JUL.2022 09:49:56



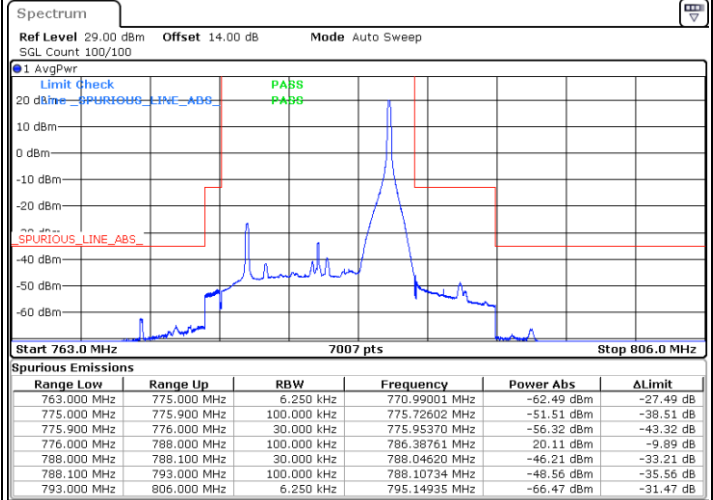
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



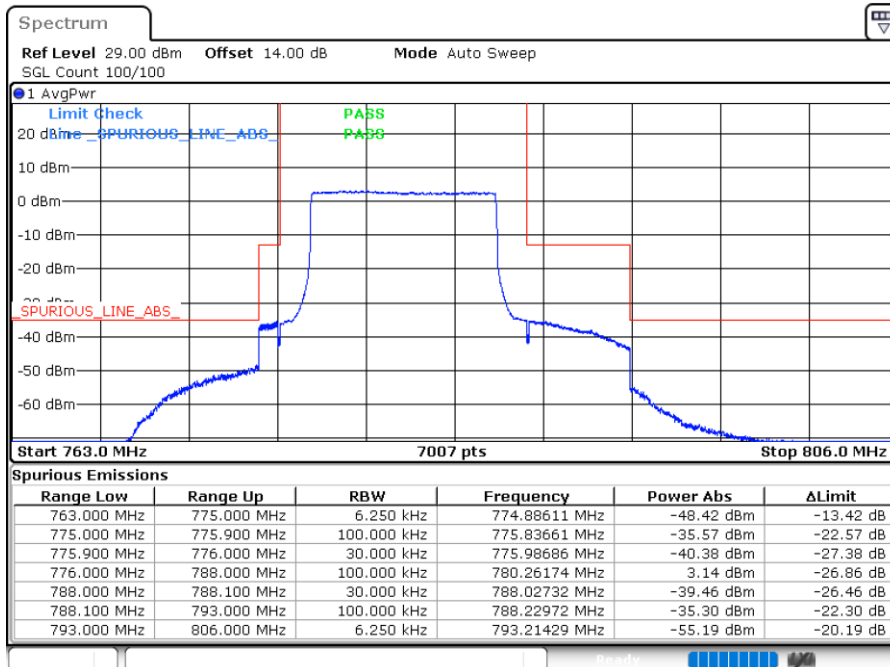
Date: 6.JUL.2022 09:53:40

Highest Band Edge / 1 RB



Date: 6.JUL.2022 09:59:16

Band Edge / Full RB

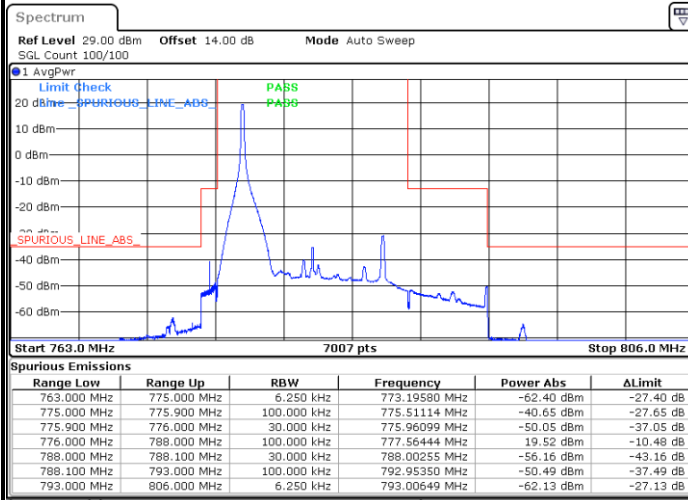


Date: 6.JUL.2022 09:51:48

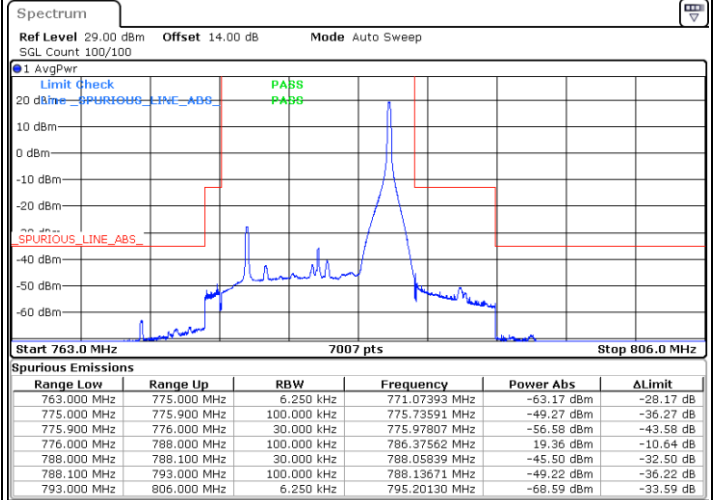


LTE Band 13 / 10MHz / 64QAM

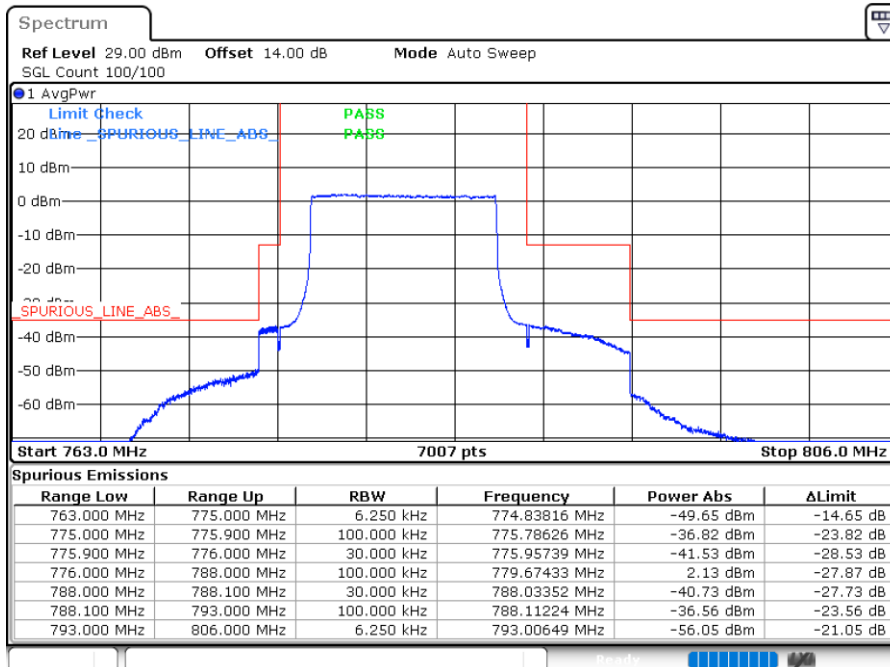
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

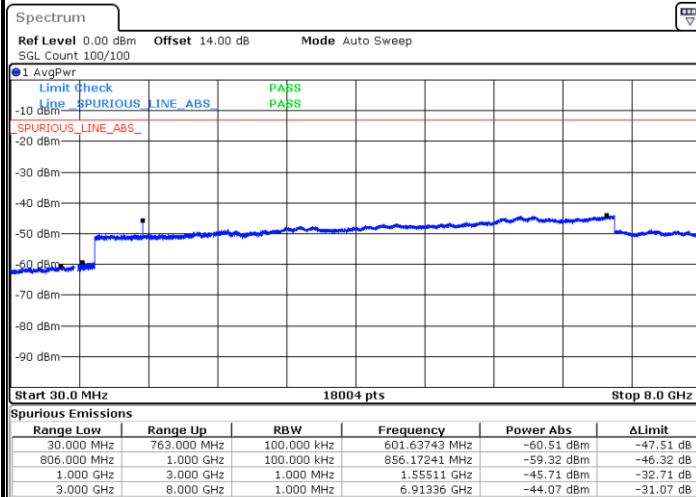




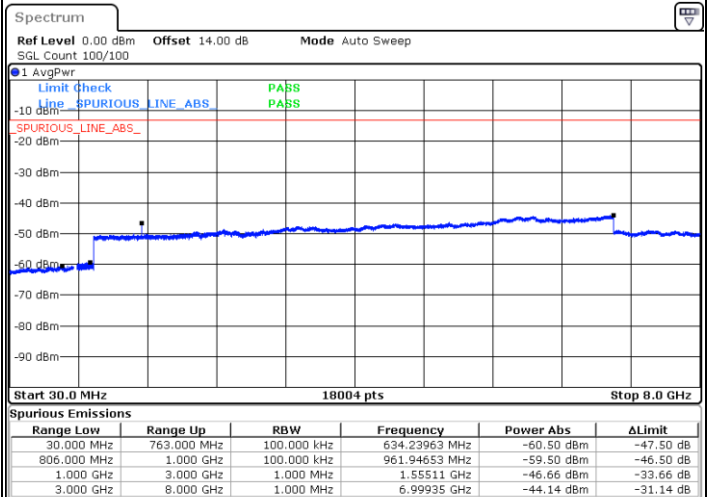
Conducted Spurious Emission

LTE Band 13 / 5MHz

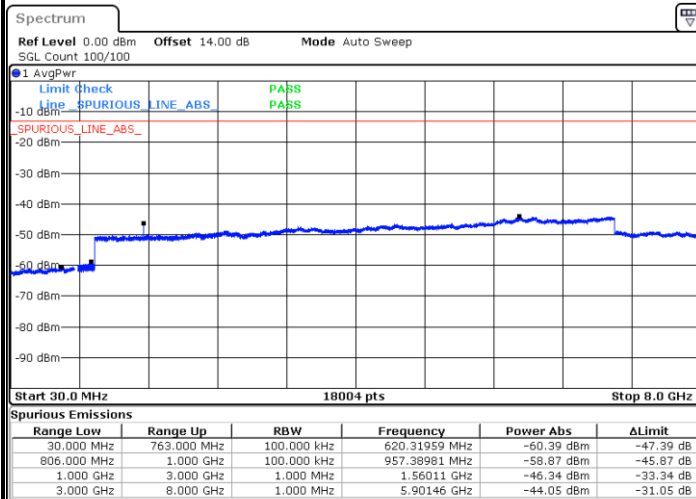
Lowest Channel / QPSK



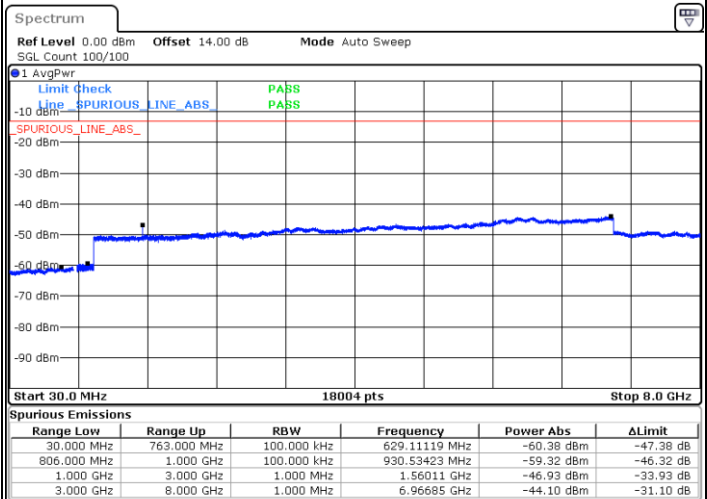
Lowest Channel / 16QAM



Middle Channel / QPSK



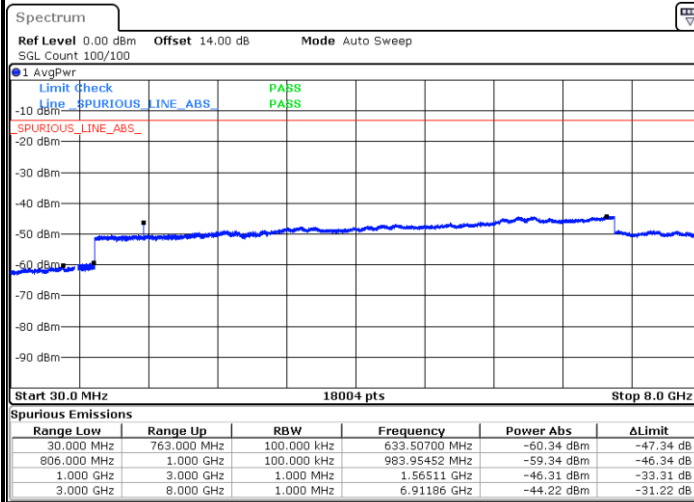
Middle Channel / 16QAM





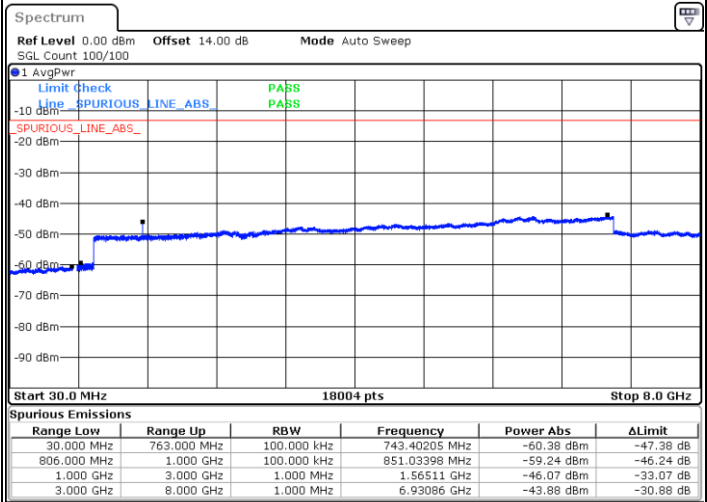
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 6.JUL.2022 09:34:20

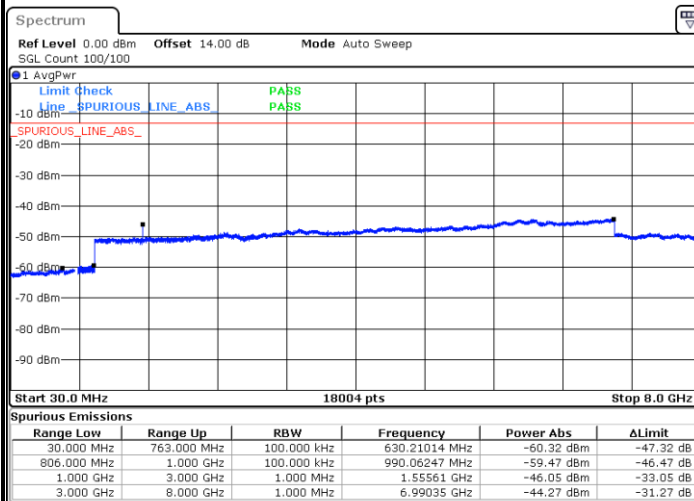
Highest Channel / 16QAM



Date: 6.JUL.2022 09:35:12

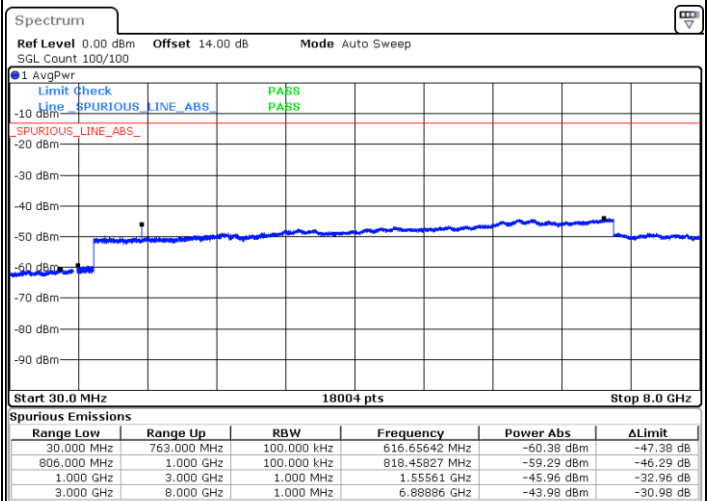
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 6.JUL.2022 10:00:59

Middle Channel / 16QAM

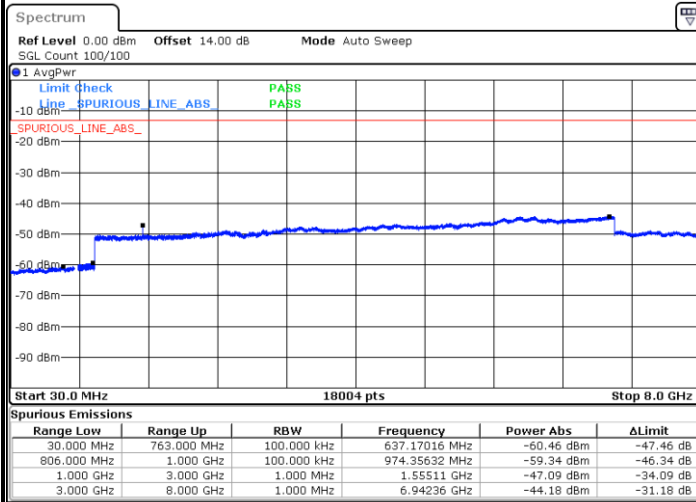


Date: 6.JUL.2022 10:00:08



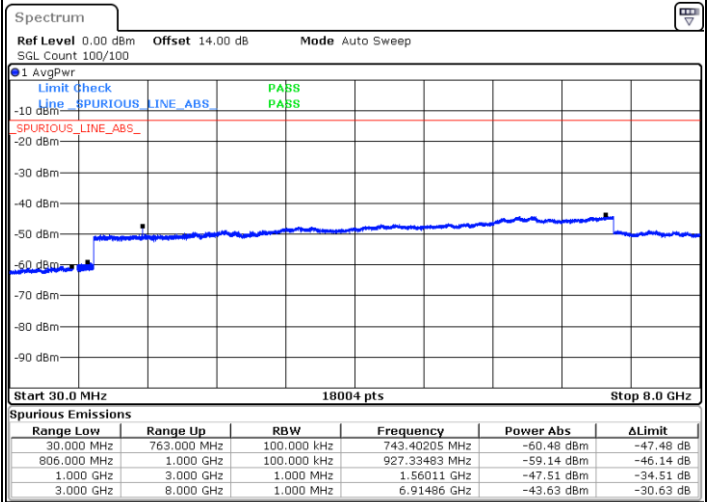
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



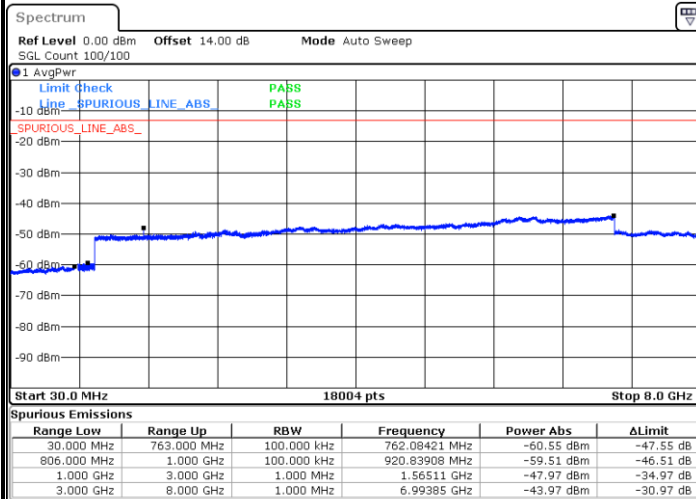
Date: 6.JUL.2022 09:40:10

Middle Channel / 64QAM



Date: 6.JUL.2022 09:41:02

Highest Channel / 64QAM

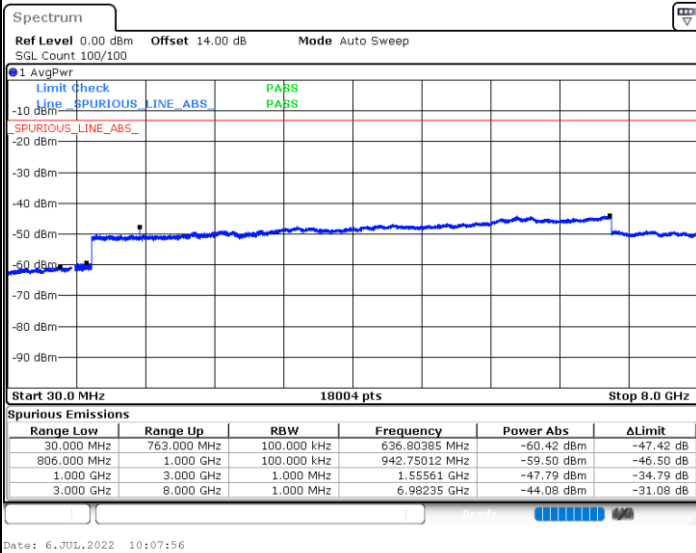


Date: 6.JUL.2022 09:46:47



LTE Band 13 / 10MHz

Middle Channel / 64QAM



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	0.0023	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

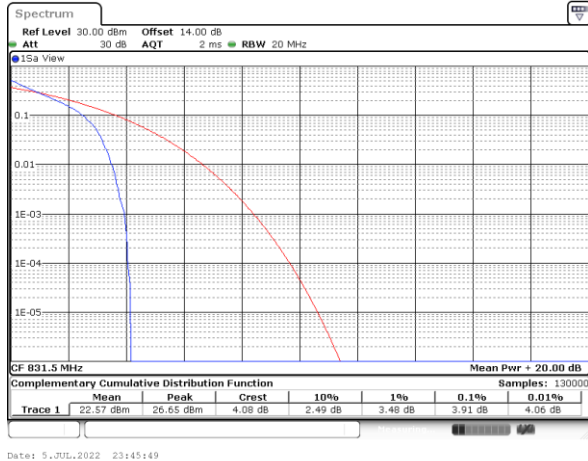
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	4.90	5.07	5.68	PASS
Middle CH	3.86	5.13	4.70	5.86	
Highest CH	4.38	5.22	5.33	5.94	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.33	5.57	-	-	PASS
Middle CH	5.54	5.83	-	-	
Highest CH	5.83	5.91	-	-	

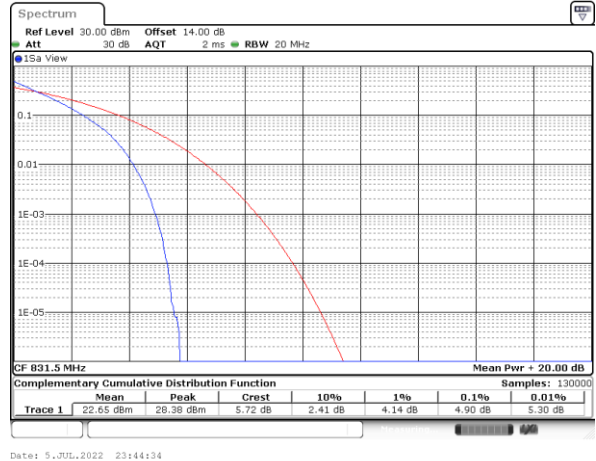


LTE Band 26 / 15MHz / QPSK

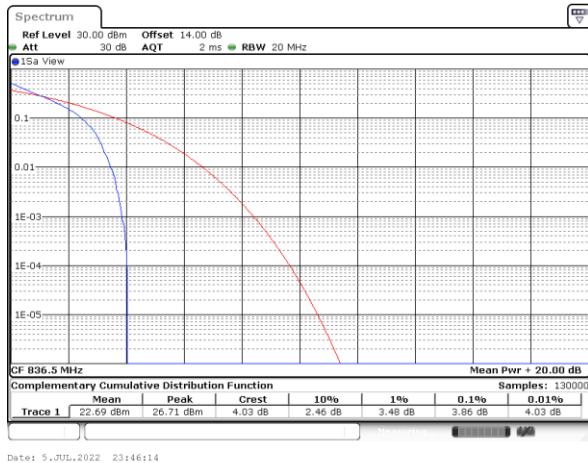
Lowest Channel / 1RB



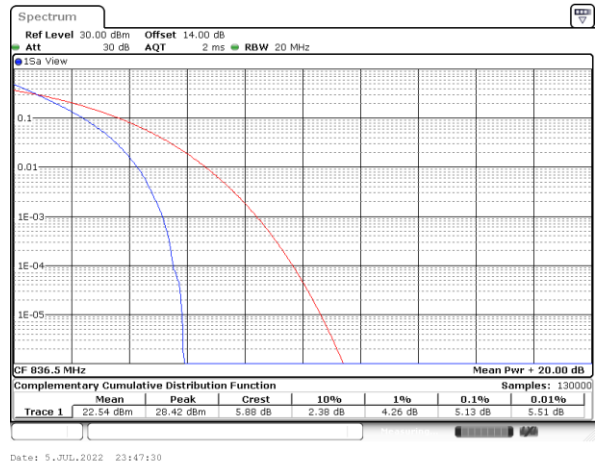
Lowest Channel / Full RB



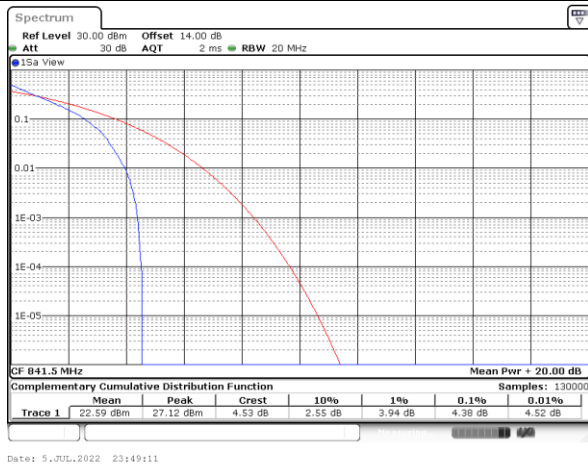
Middle Channel / 1RB



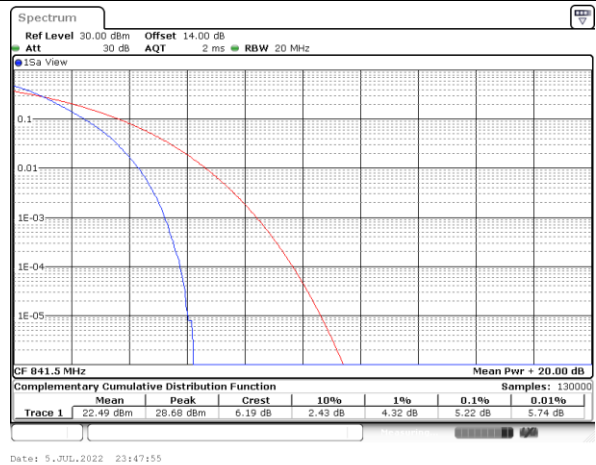
Middle Channel / Full RB



Highest Channel / 1RB

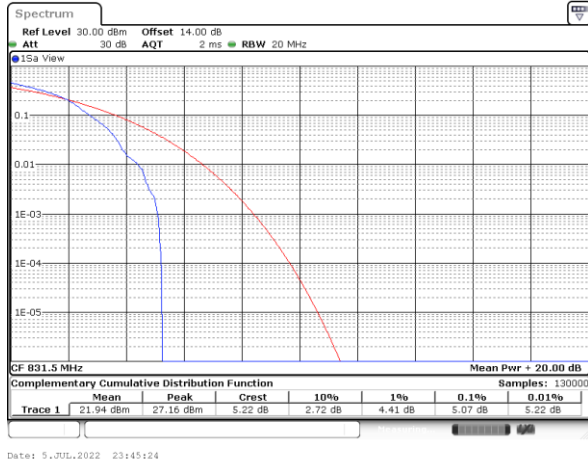


Highest Channel / Full RB

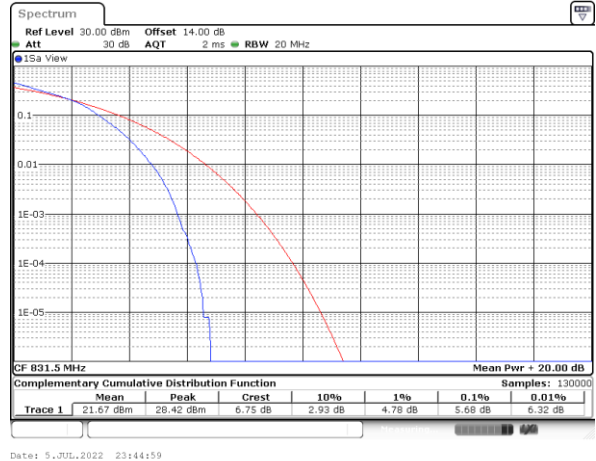


LTE Band 26 / 15MHz / 16QAM

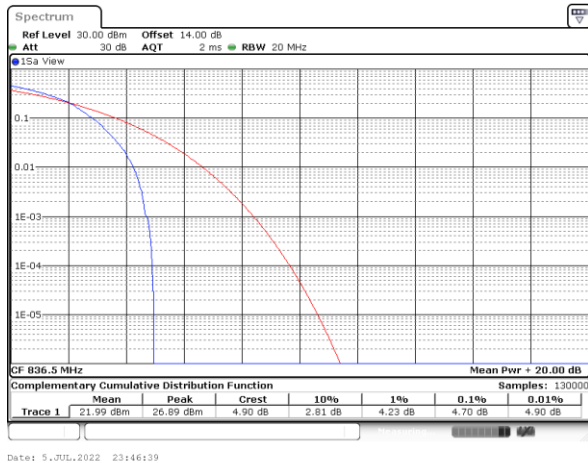
Lowest Channel / 1RB



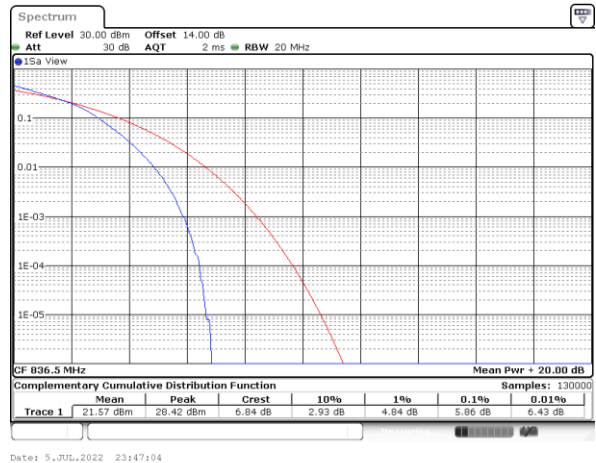
Lowest Channel / Full RB



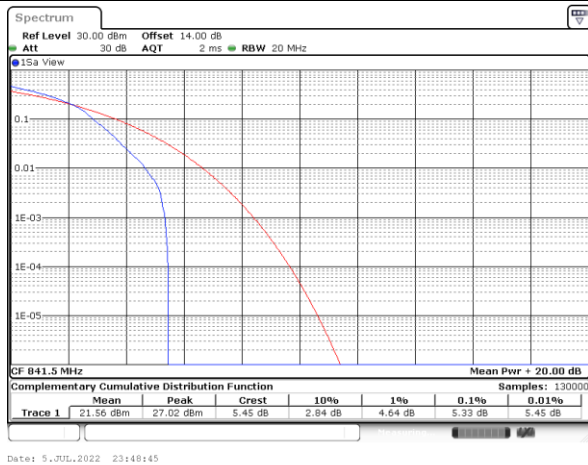
Middle Channel / 1RB



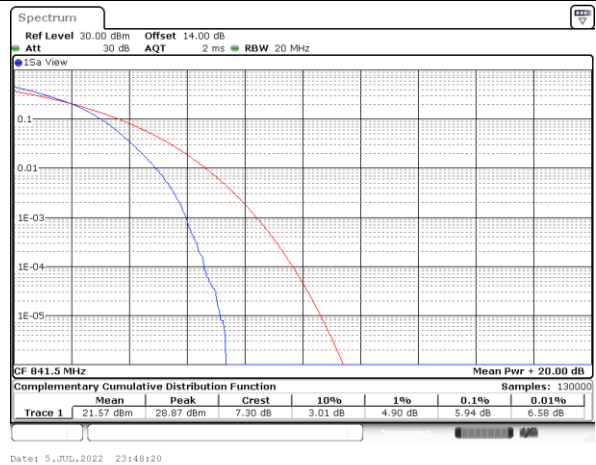
Middle Channel / Full RB



Highest Channel / 1RB



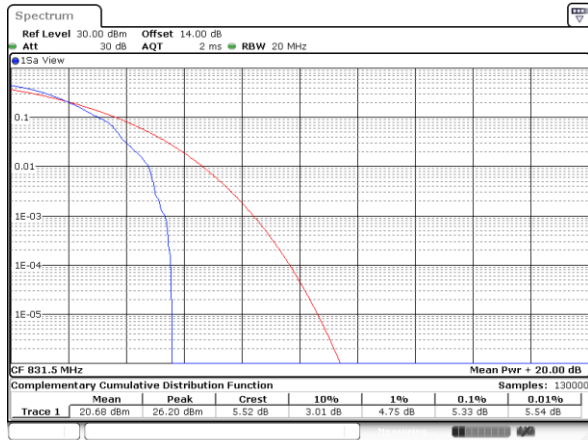
Highest Channel / Full RB



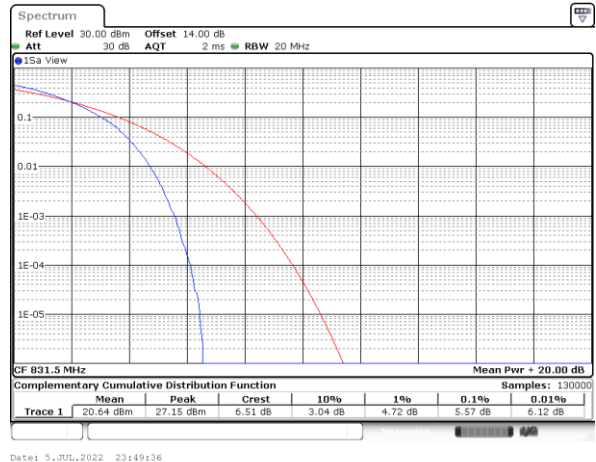


LTE Band 26 / 15MHz / 64QAM

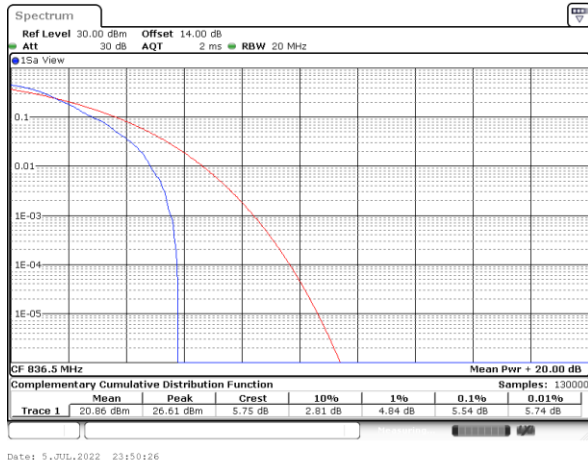
Lowest Channel / 1RB



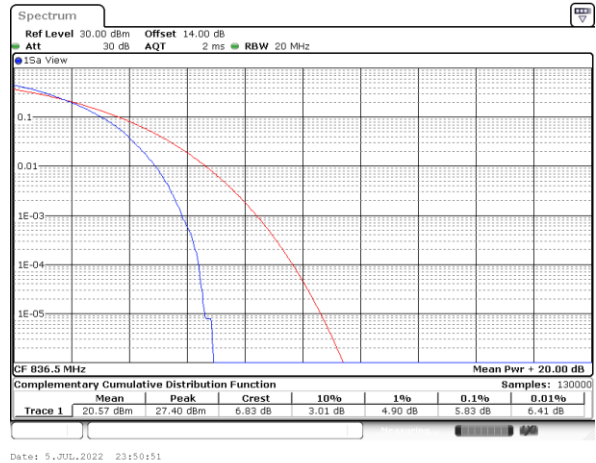
Lowest Channel / Full RB



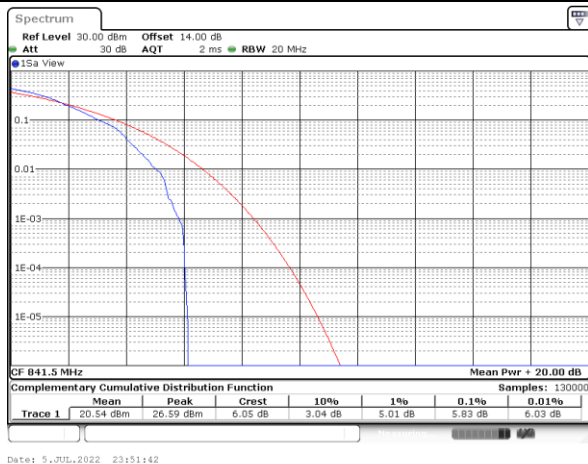
Middle Channel / 1RB



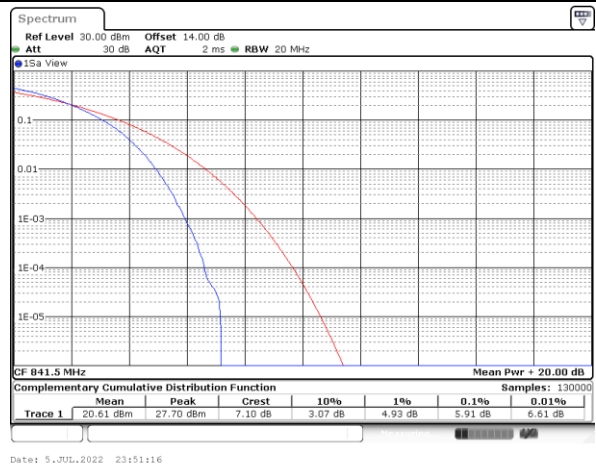
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



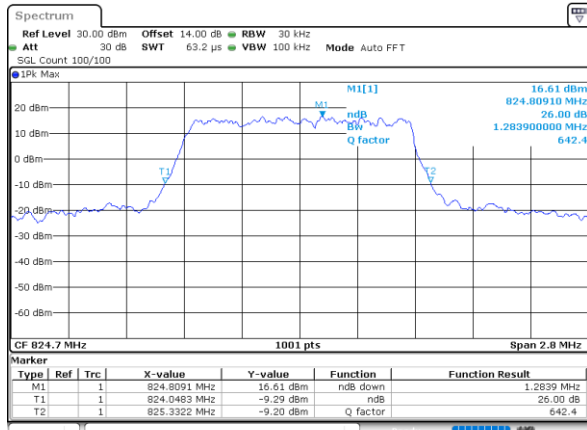
**26dB Bandwidth**

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.29	3.00	2.97	4.87	4.93	9.69	9.75	14.21	14.36	14.36	14.57
Middle CH	1.27	1.28	2.96	2.97	4.86	4.88	9.71	9.79	14.18	14.33	-	-
Highest CH	1.29	1.29	2.94	2.96	4.83	4.86	9.81	9.83	14.36	14.30	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.26	-	2.98	-	4.75	-	9.77	-	14.57	-	14.36	-
Middle CH	1.26	-	2.96	-	4.87	-	9.71	-	14.33	-	-	-
Highest CH	1.30	-	2.96	-	4.87	-	9.67	-	14.36	-	-	-



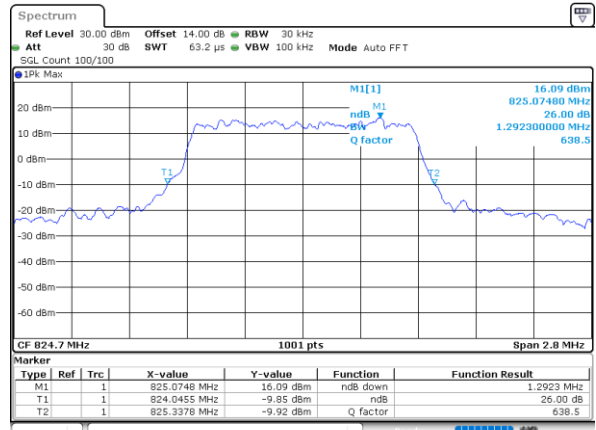
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



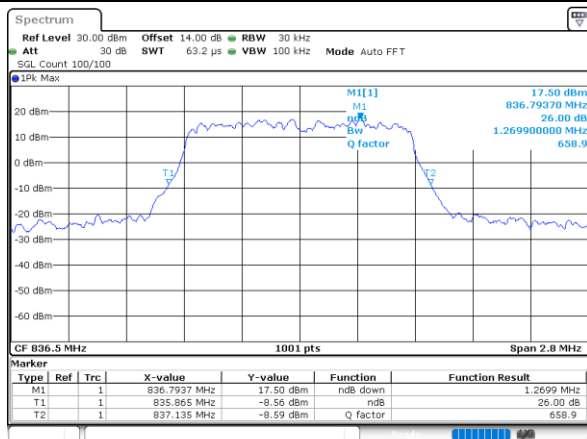
Date: 5.JUL.2022 23:55:16

Lowest Channel / 1.4MHz / 16QAM



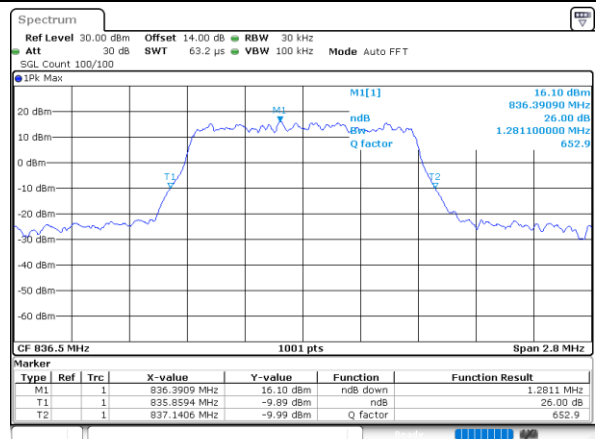
Date: 5.JUL.2022 23:54:52

Middle Channel / 1.4MHz / QPSK



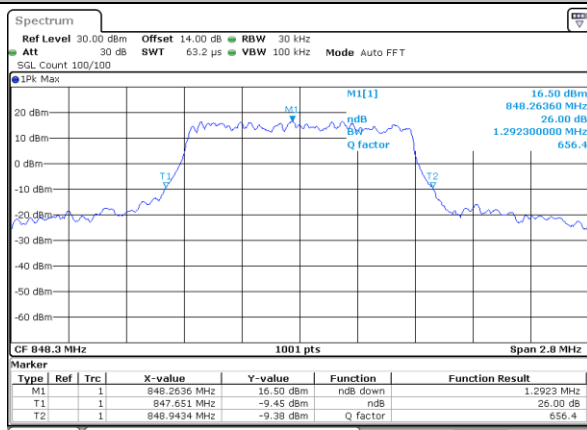
Date: 6.JUL.2022 00:04:22

Middle Channel / 1.4MHz / 16QAM



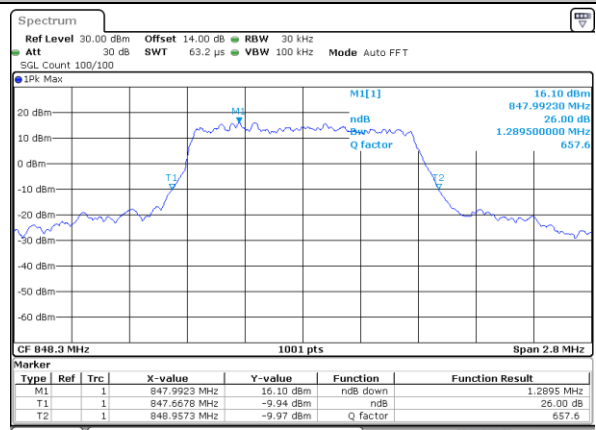
Date: 6.JUL.2022 00:03:58

Highest Channel / 1.4MHz / QPSK



Date: 6.JUL.2022 00:07:35

Highest Channel / 1.4MHz / 16QAM



Date: 6.JUL.2022 00:07:11