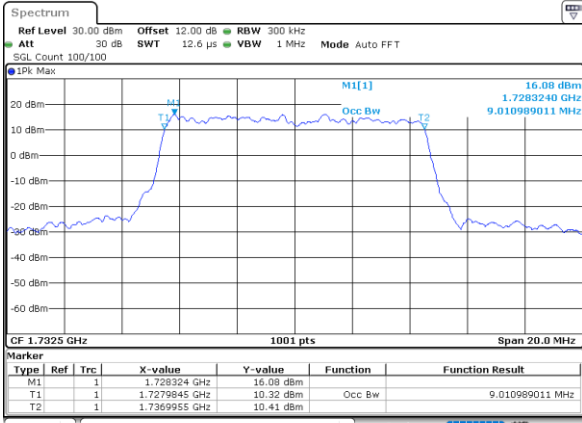




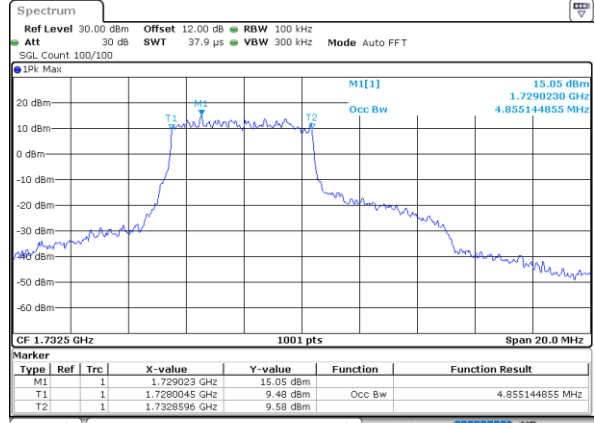
LTE Band 4

Middle Channel / 10MHz / QPSK



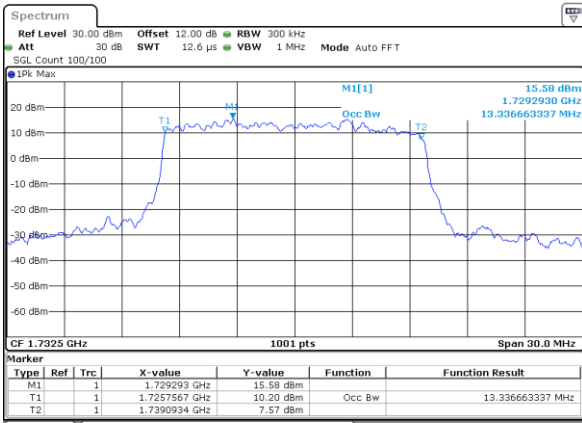
Date: 5.SEP.2023 20:48:13

Middle Channel / 10MHz / 16QAM



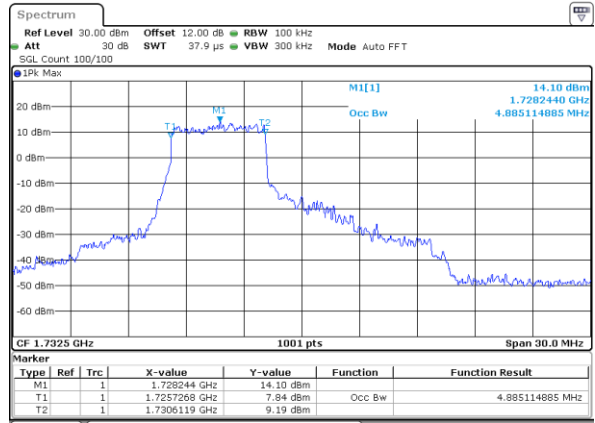
Date: 25.AUG.2023 02:15:01

Middle Channel / 15MHz / QPSK



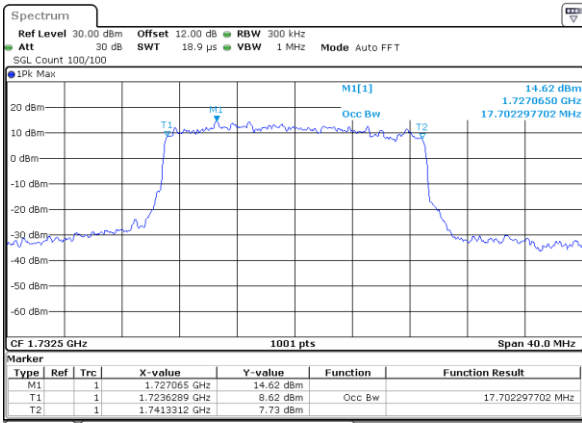
Date: 5.SEP.2023 20:44:00

Middle Channel / 15MHz / 16QAM



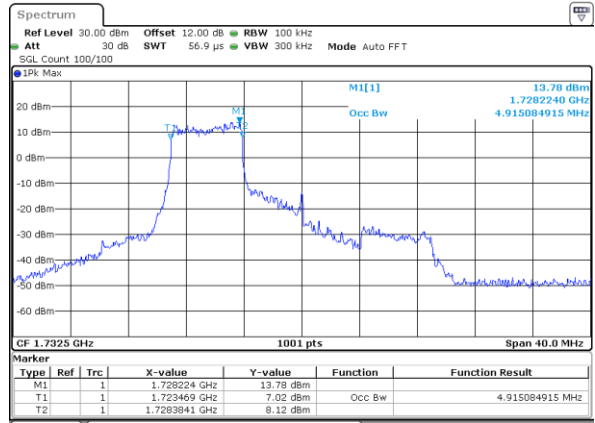
Date: 25.AUG.2023 03:07:29

Middle Channel / 20MHz / QPSK



Date: 5.SEP.2023 20:44:47

Middle Channel / 20MHz / 16QAM



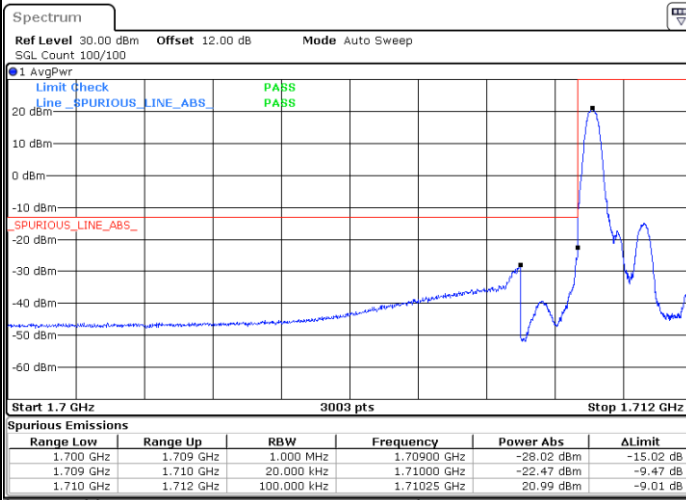
Date: 25.AUG.2023 03:16:56



Conducted Band Edge

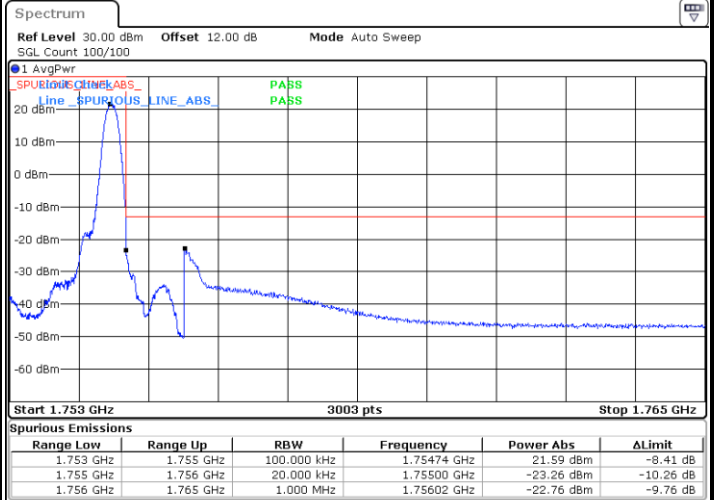
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



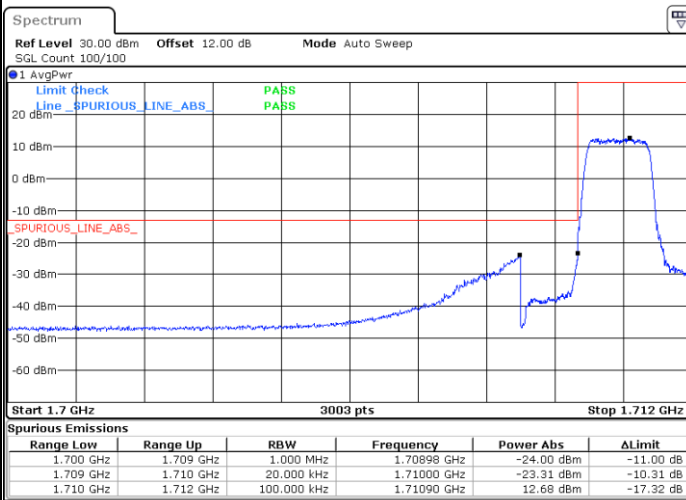
Date: 25.AUG.2023 02:22:08

Highest Band Edge / 1RB



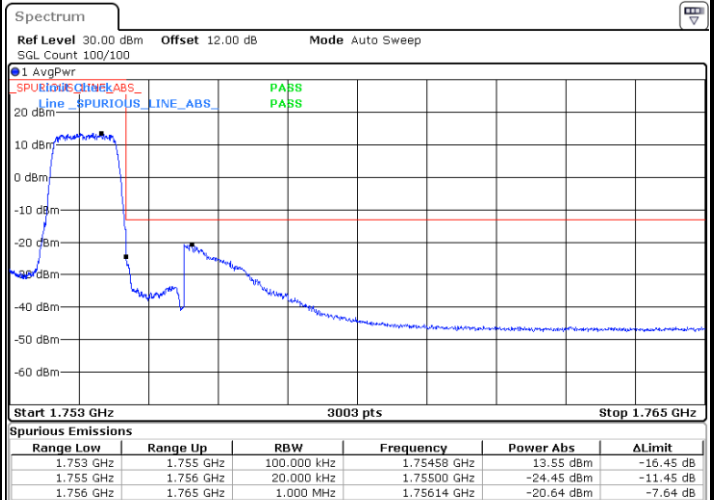
Date: 25.AUG.2023 02:30:10

Lowest Band Edge / Full RB



Date: 25.AUG.2023 02:24:03

Highest Band Edge / Full RB

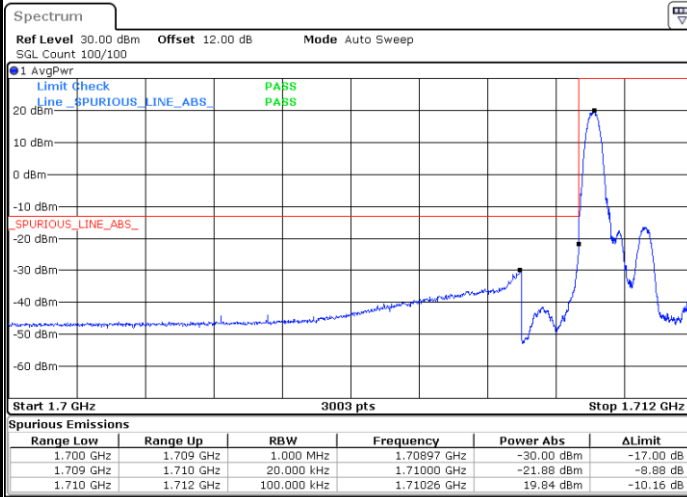


Date: 25.AUG.2023 02:32:03



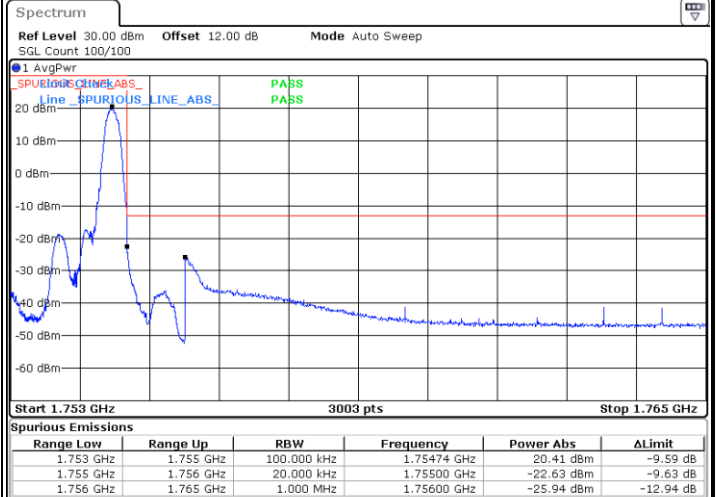
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



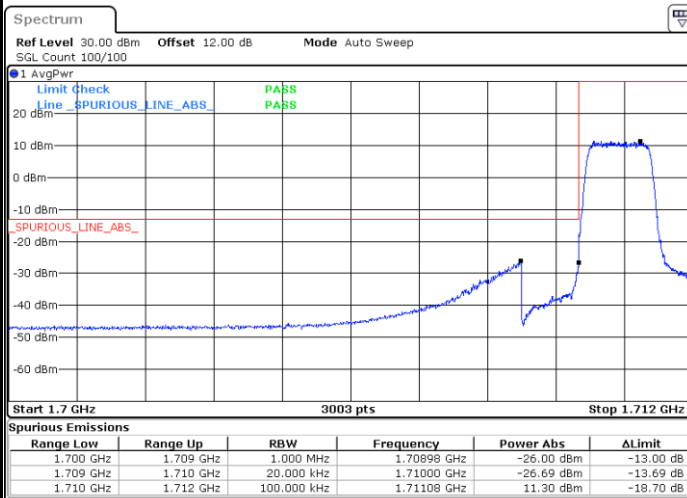
Date: 25.AUG.2023 02:23:06

Highest Band Edge / 1 RB



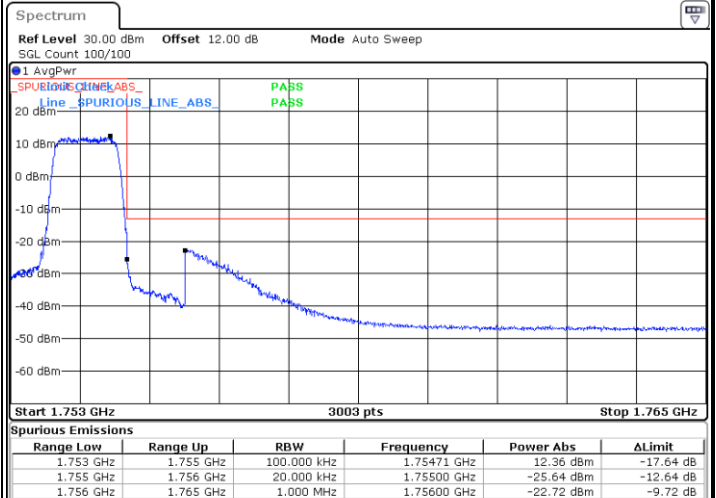
Date: 25.AUG.2023 02:31:06

Lowest Band Edge / Full RB



Date: 25.AUG.2023 02:25:01

Highest Band Edge / Full RB

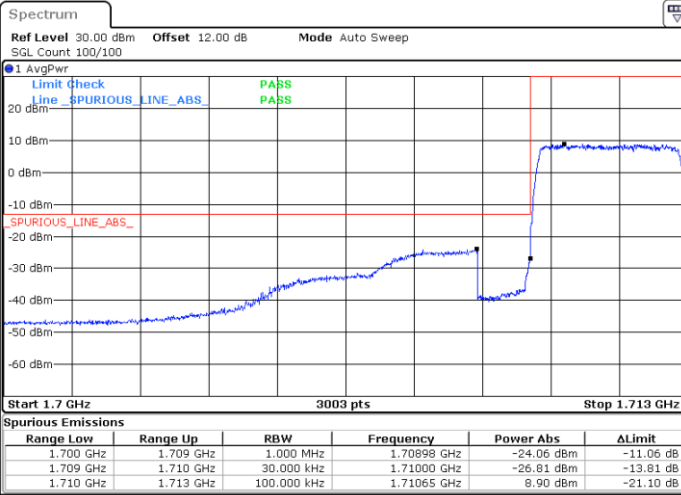


Date: 25.AUG.2023 02:33:00

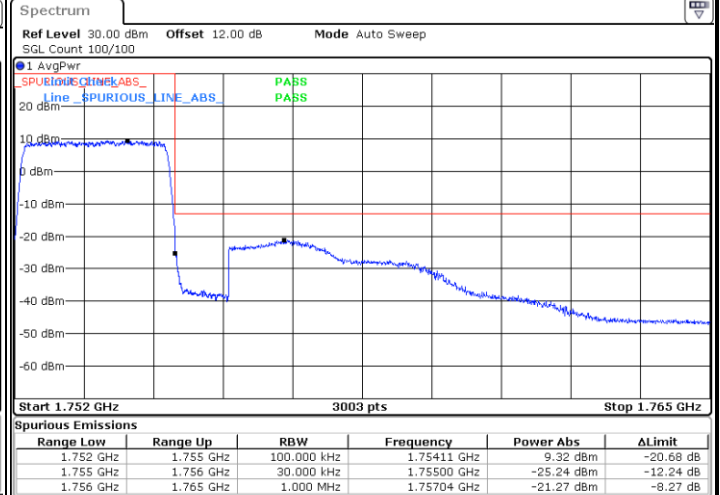


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

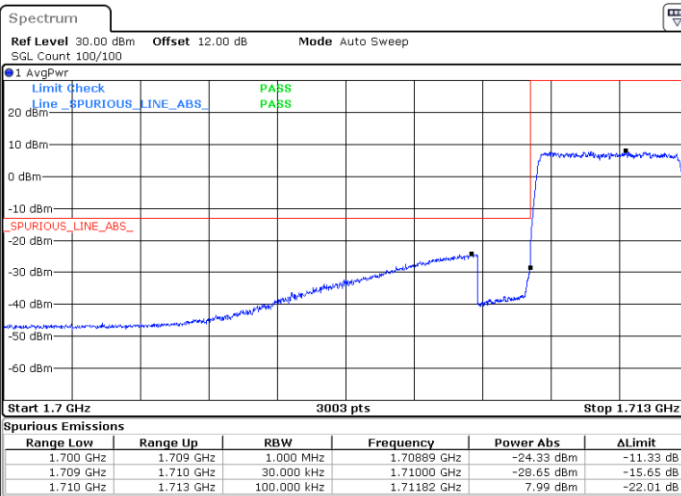


Highest Band Edge / Full RB

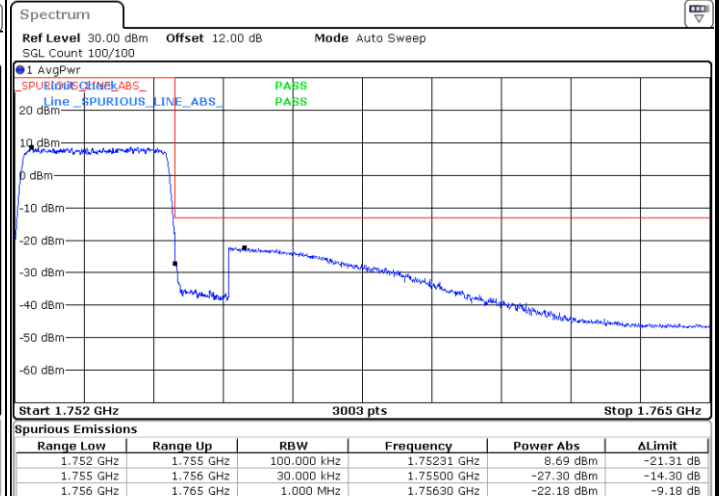


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



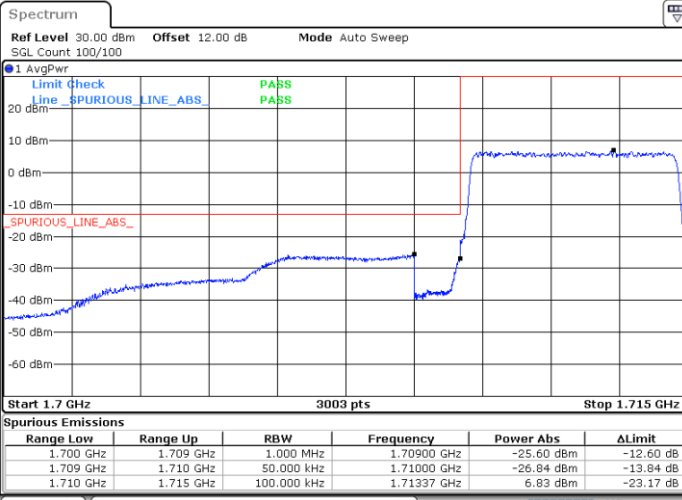
Highest Band Edge / Full RB





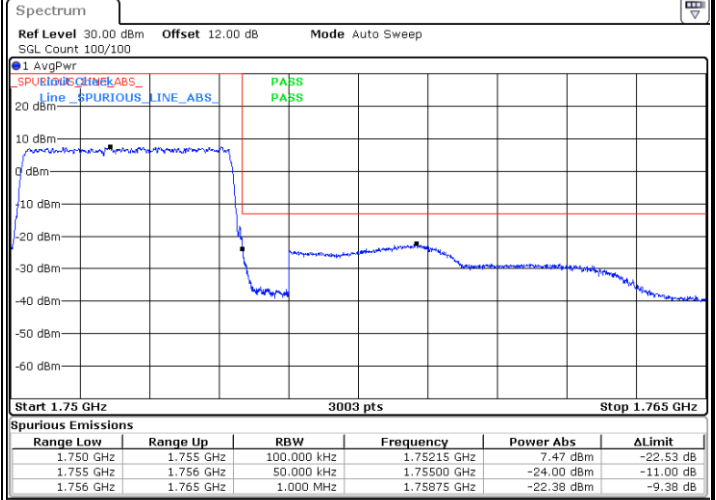
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 02:48:25

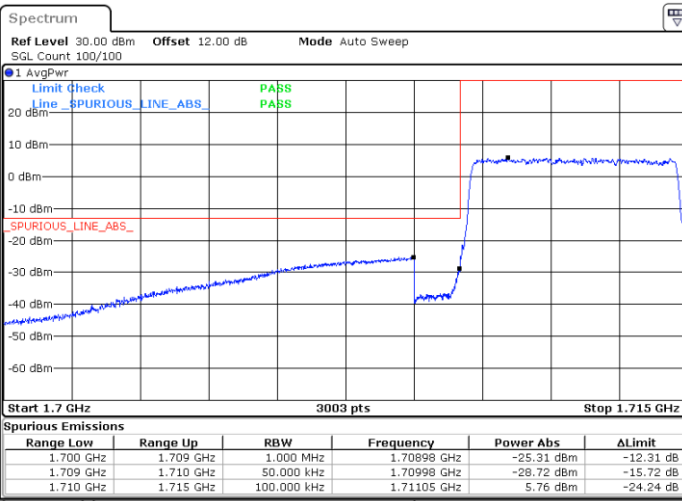
Highest Band Edge / Full RB



Date: 25.AUG.2023 02:53:35

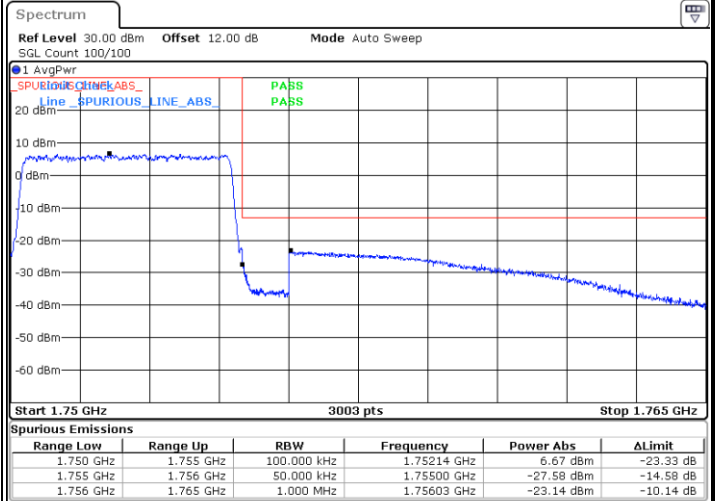
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 25.AUG.2023 02:49:22

Highest Band Edge / Full RB

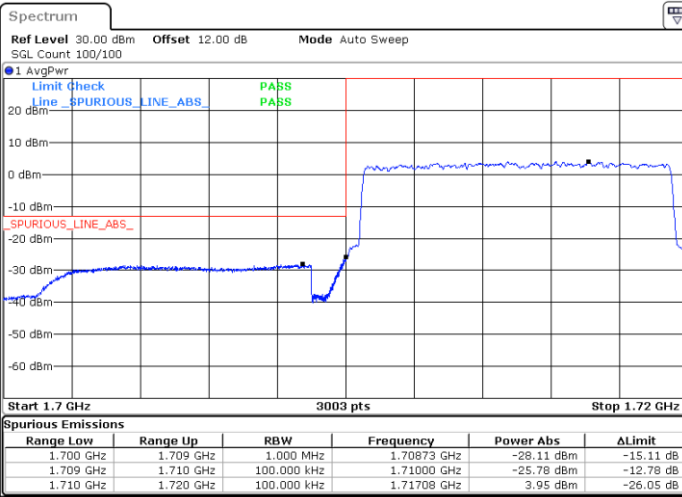


Date: 25.AUG.2023 02:54:31



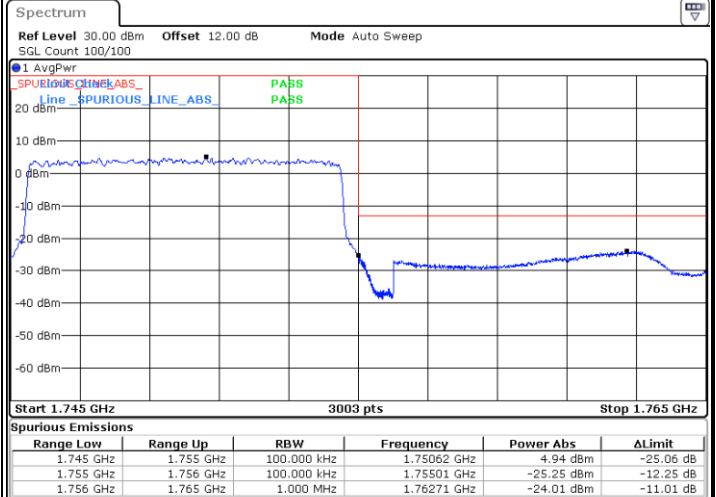
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 02:56:11

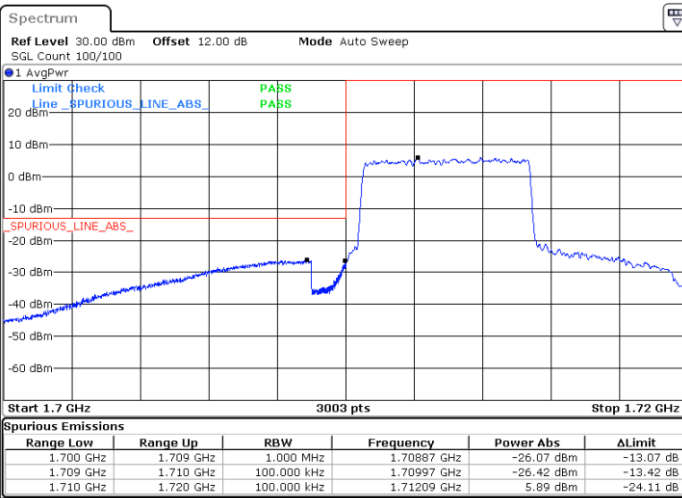
Highest Band Edge / Full RB



Date: 25.AUG.2023 02:59:48

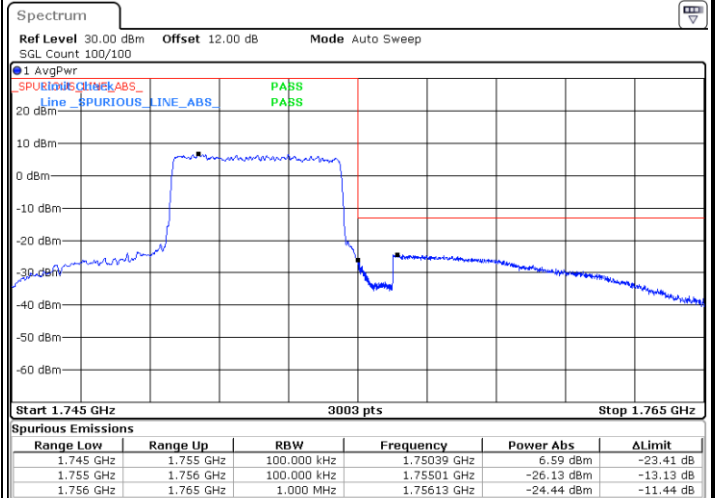
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 02:57:08

Highest Band Edge / 27 RB

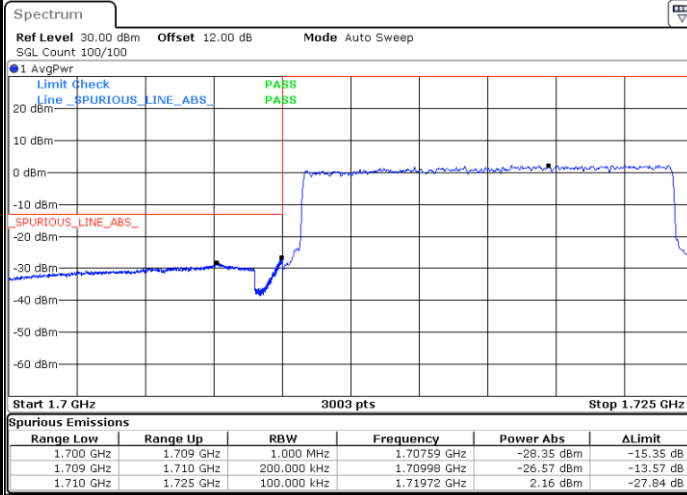


Date: 26.AUG.2023 00:05:24



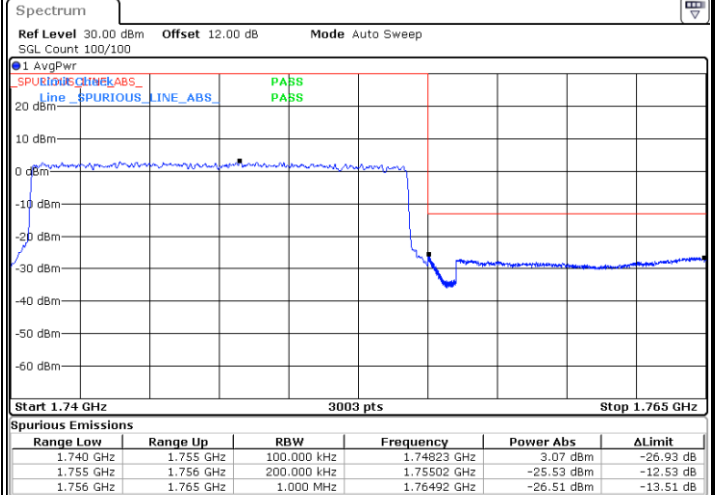
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 03:05:40

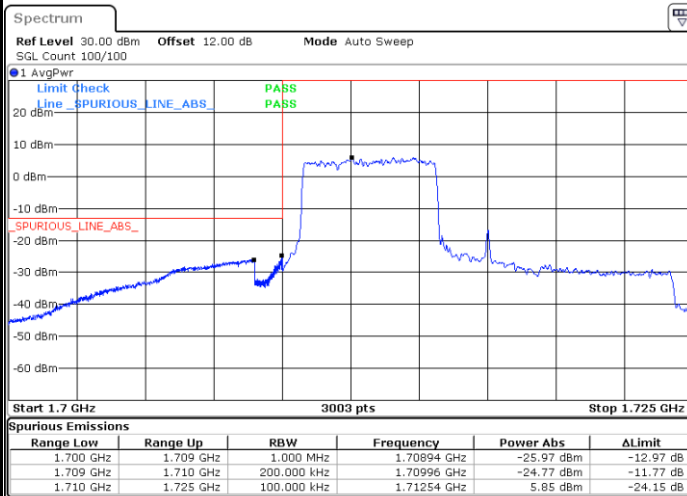
Highest Band Edge / Full RB



Date: 25.AUG.2023 03:12:30

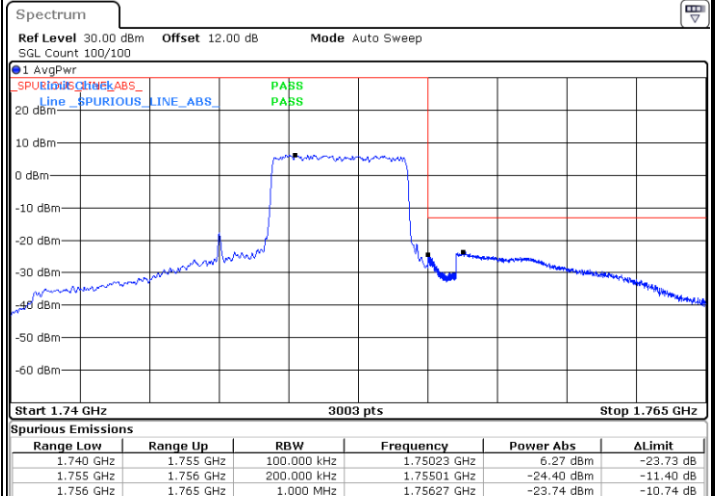
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 03:06:36

Highest Band Edge / 27 RB

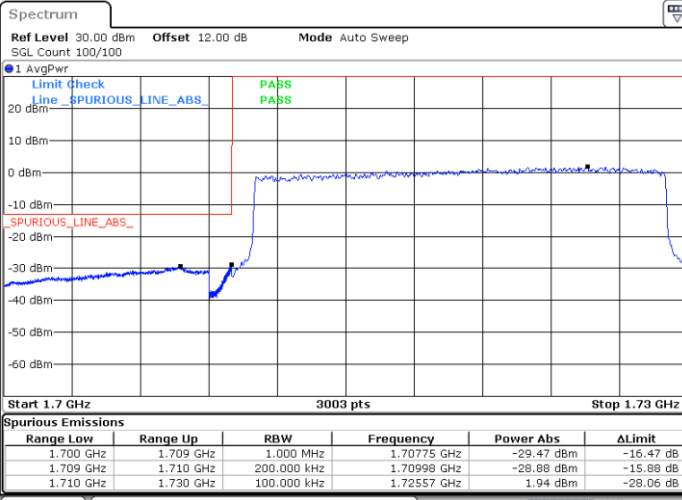


Date: 26.AUG.2023 00:09:07



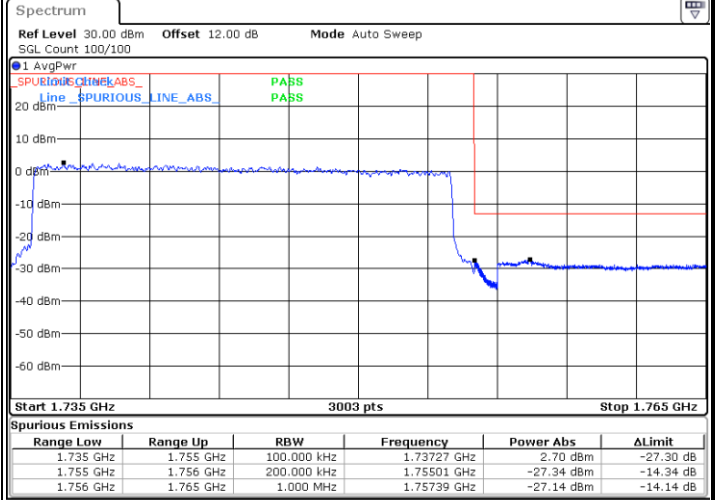
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 25.AUG.2023 03:15:06

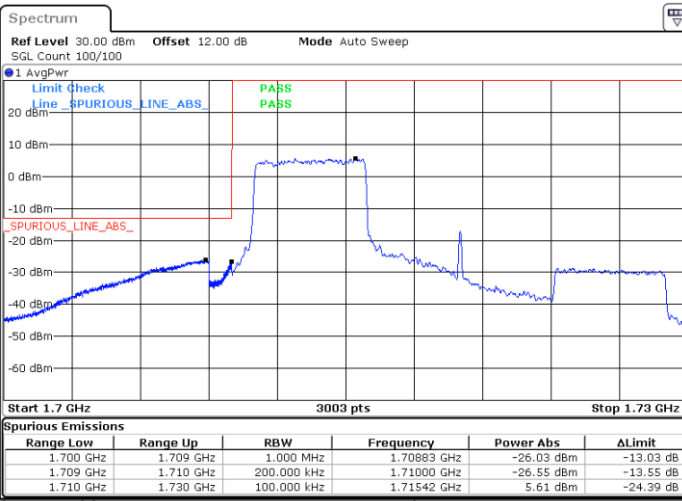
Highest Band Edge / Full RB



Date: 25.AUG.2023 03:21:57

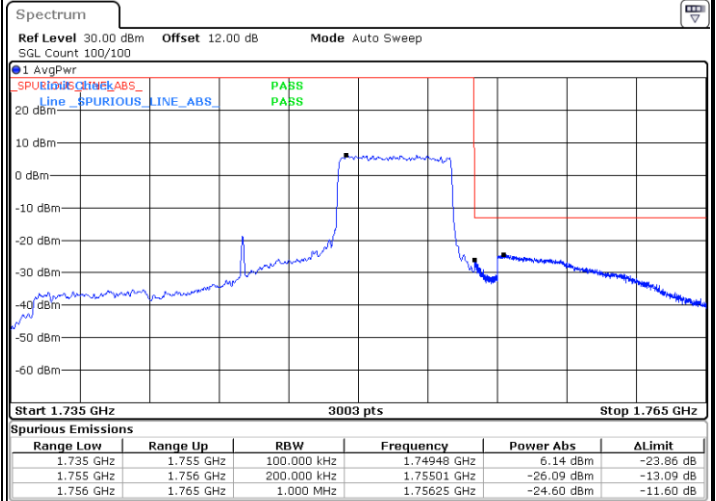
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 25.AUG.2023 03:16:02

Highest Band Edge / 27 RB



Date: 26.AUG.2023 00:12:43

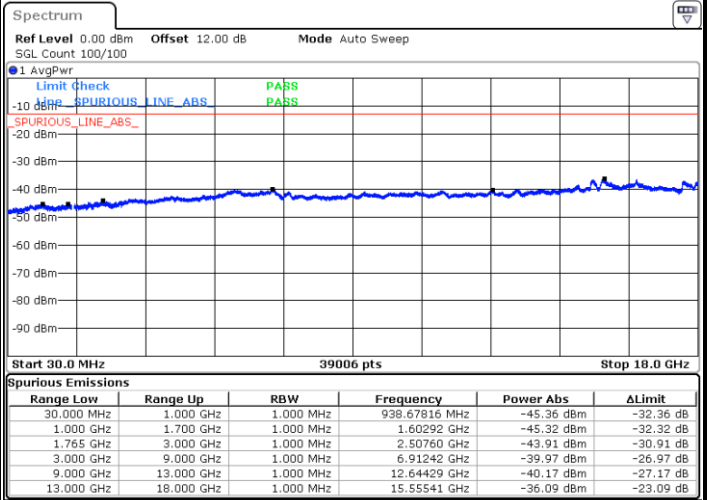
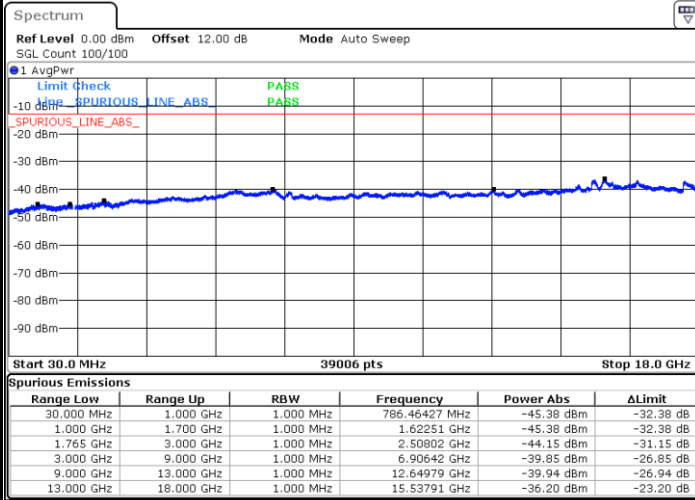


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

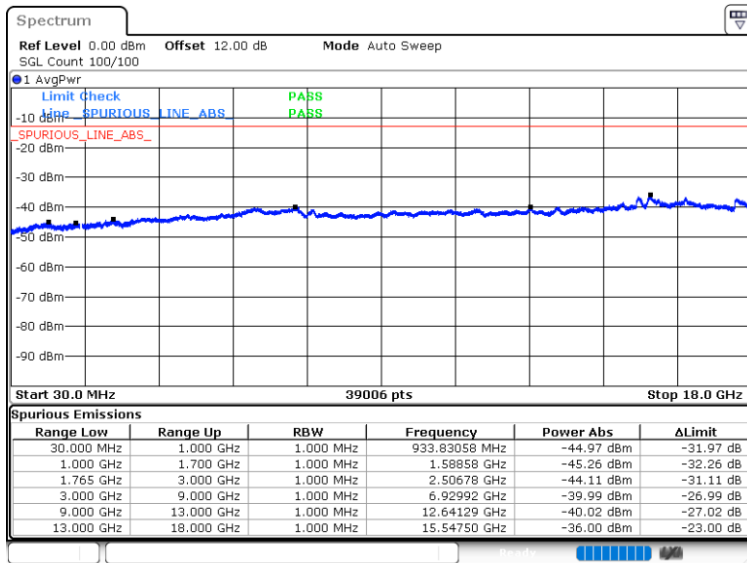
Middle Channel / QPSK



Date: 25.AUG.2023 02:26:09

Date: 25.AUG.2023 02:29:14

Highest Channel / QPSK



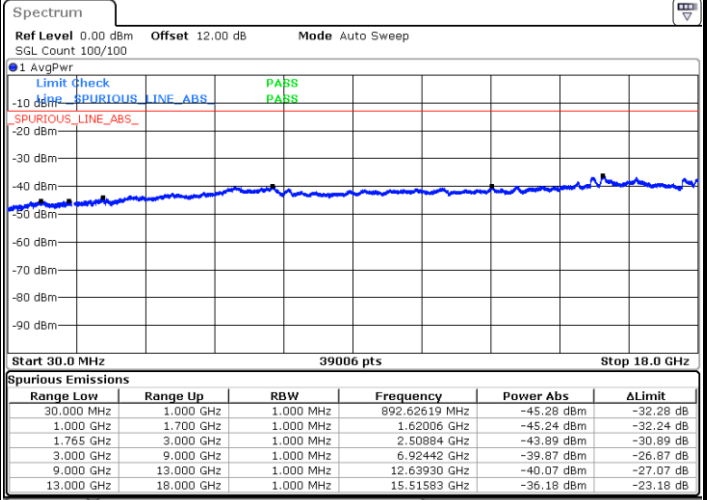
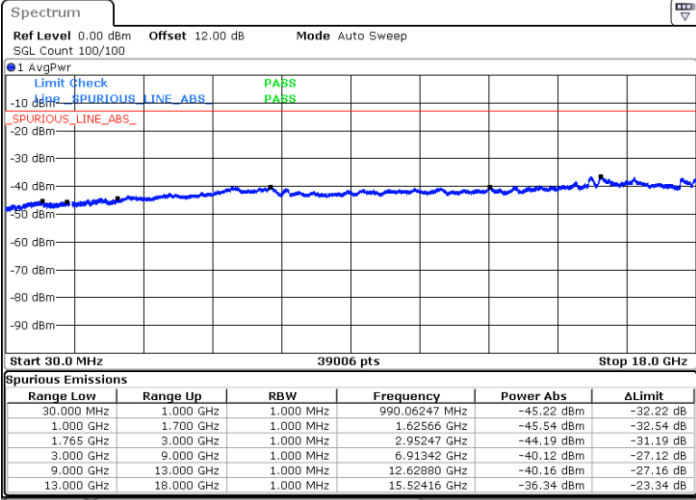
Date: 25.AUG.2023 02:34:06



LTE Band 4 / 3MHz

Lowest Channel / QPSK

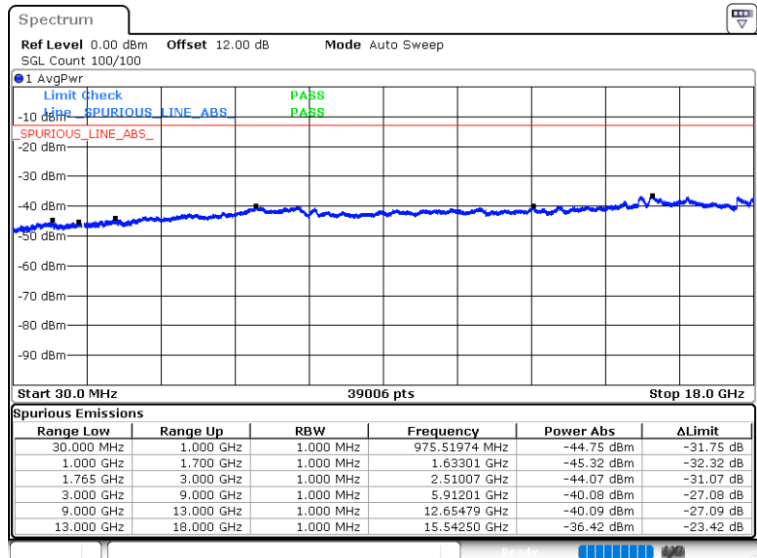
Middle Channel / QPSK



Date: 25.AUG.2023 02:38:39

Date: 25.AUG.2023 02:39:43

Highest Channel / QPSK



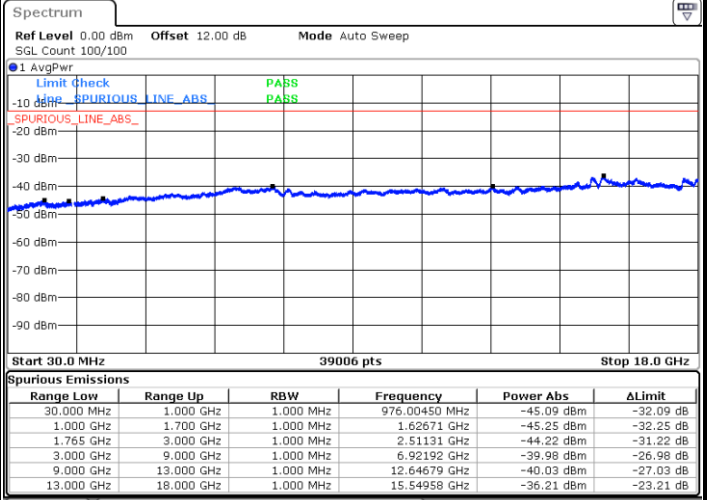
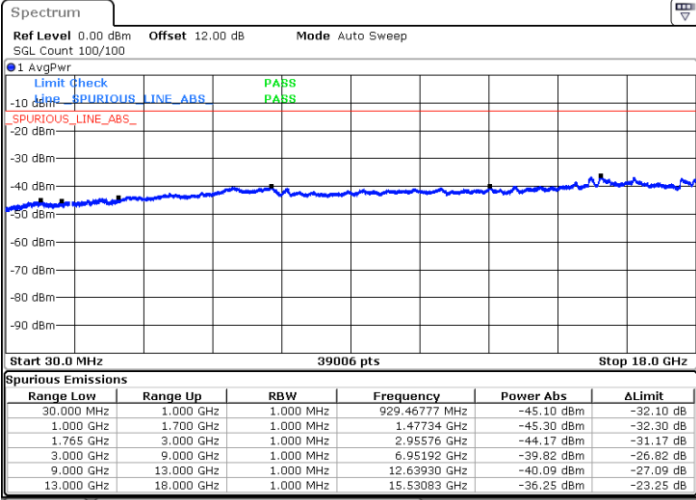
Date: 25.AUG.2023 02:40:48



LTE Band 4 / 5MHz

Lowest Channel / QPSK

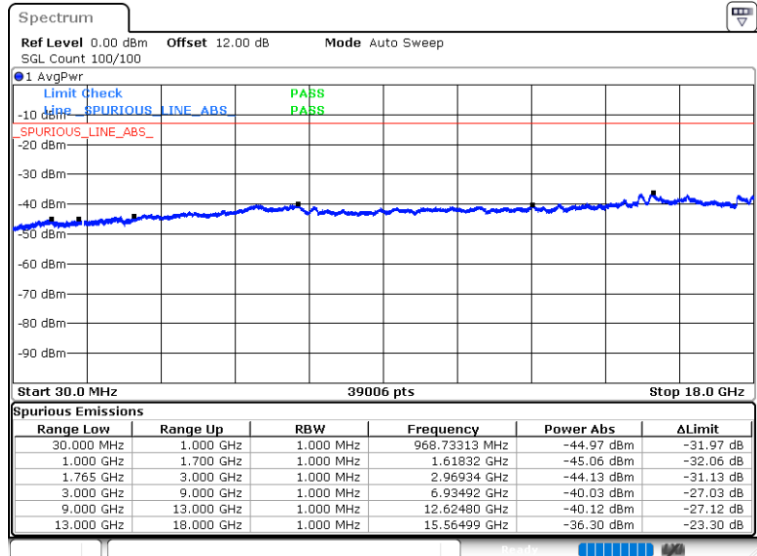
Middle Channel / QPSK



Date: 25.AUG.2023 02:45:20

Date: 25.AUG.2023 02:46:25

Highest Channel / QPSK



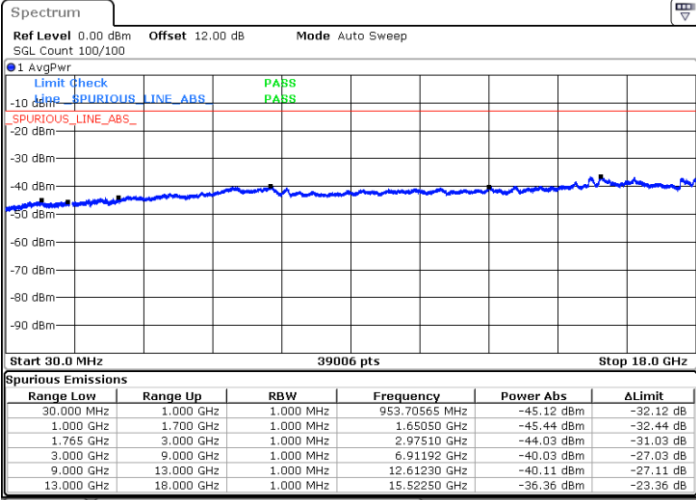
Date: 25.AUG.2023 02:47:30



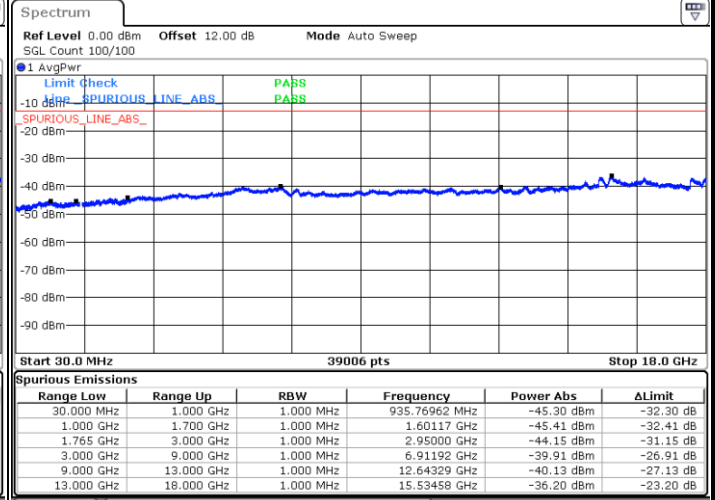
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

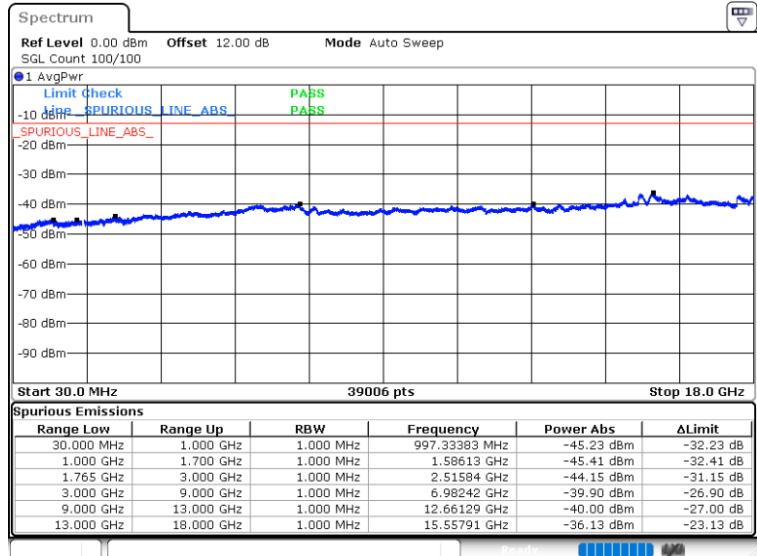


Date: 25.AUG.2023 03:01:52



Date: 25.AUG.2023 03:02:56

Highest Channel / QPSK



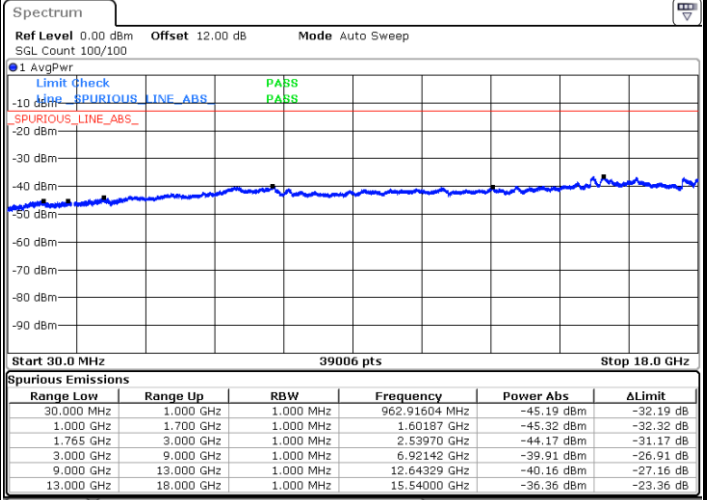
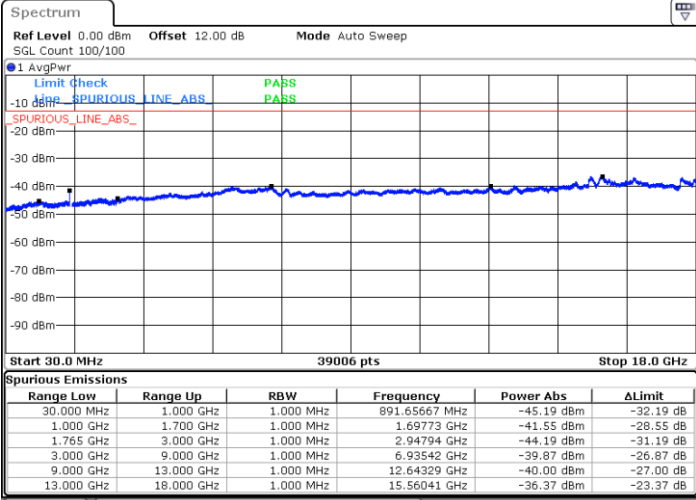
Date: 25.AUG.2023 03:04:01



LTE Band 4 / 15MHz

Lowest Channel / QPSK

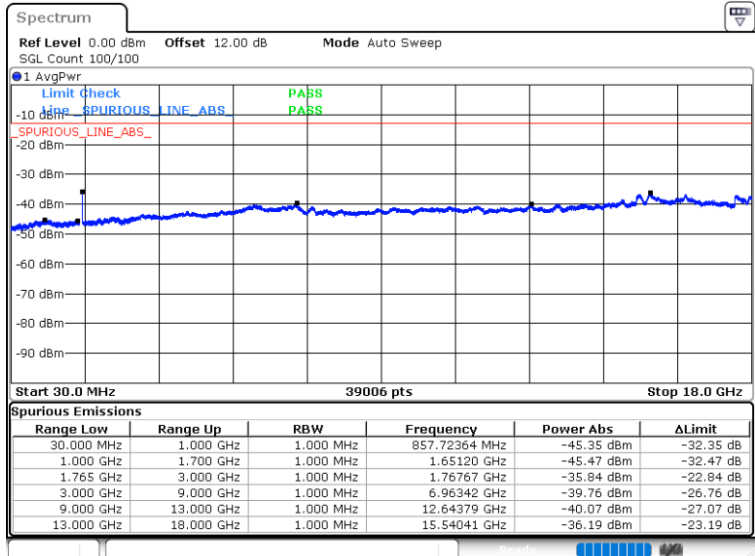
Middle Channel / QPSK



Date: 25.AUG.2023 03:09:25

Date: 25.AUG.2023 03:10:30

Highest Channel / QPSK



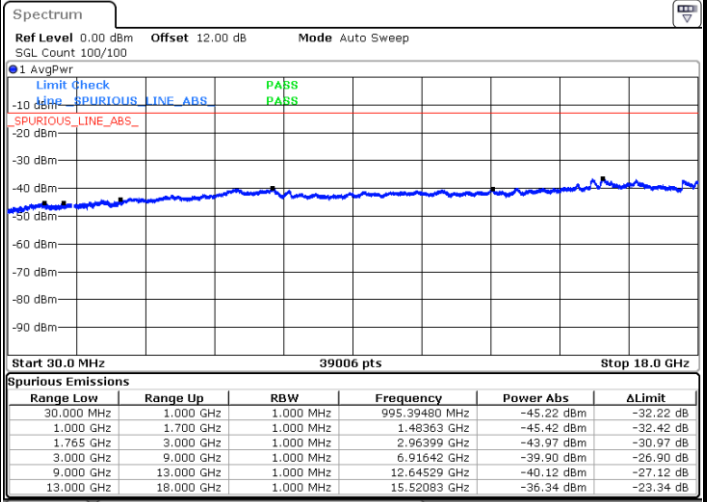
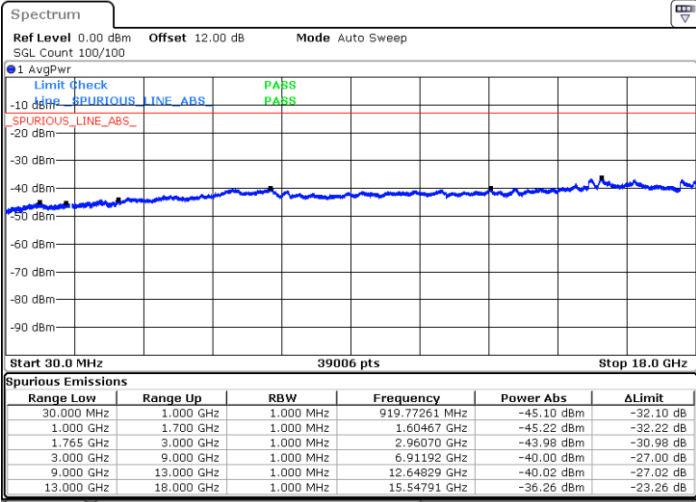
Date: 25.AUG.2023 03:11:35



LTE Band 4 / 20MHz

Lowest Channel / QPSK

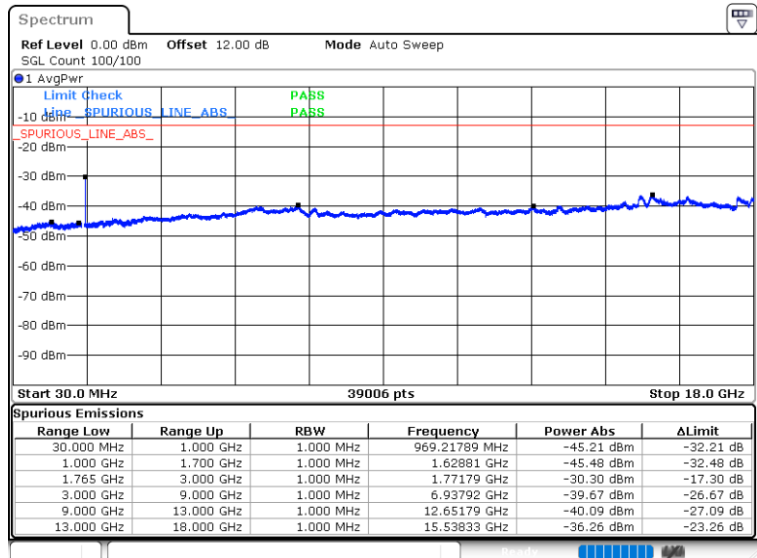
Middle Channel / QPSK



Date: 25.AUG.2023 03:18:52

Date: 25.AUG.2023 03:19:57

Highest Channel / QPSK



Date: 25.AUG.2023 03:21:01



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0063	PASS
40	Normal Voltage	0.0063	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0081	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0078	
20	Normal Voltage	0.0063	
20	Battery End Point	0.0063	

Note:

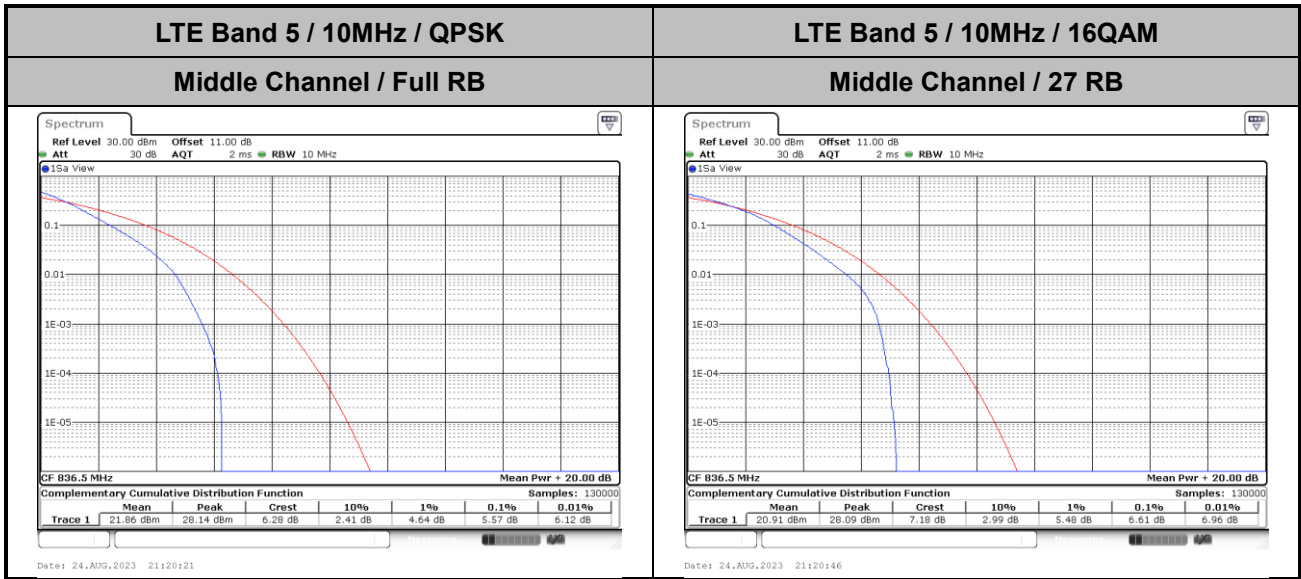
- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	5.57	6.61	PASS





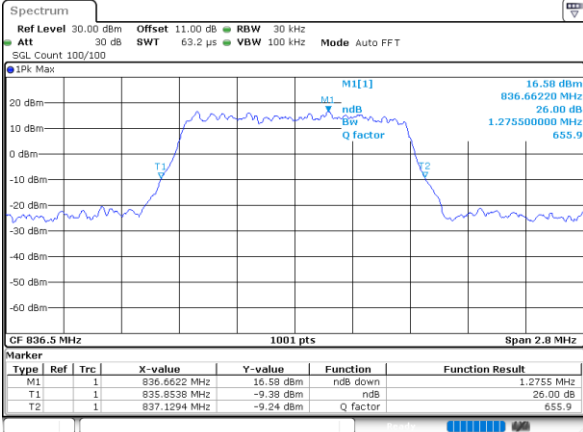
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.26	3.02	3.03	5.00	4.93	9.85	5.36	-	-	-	-



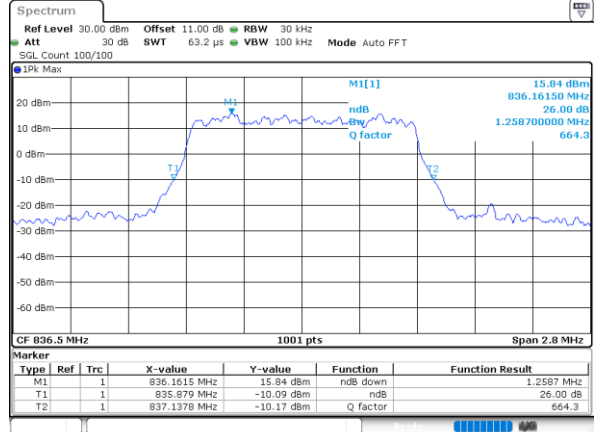
LTE Band 5

Middle Channel / 1.4MHz / QPSK



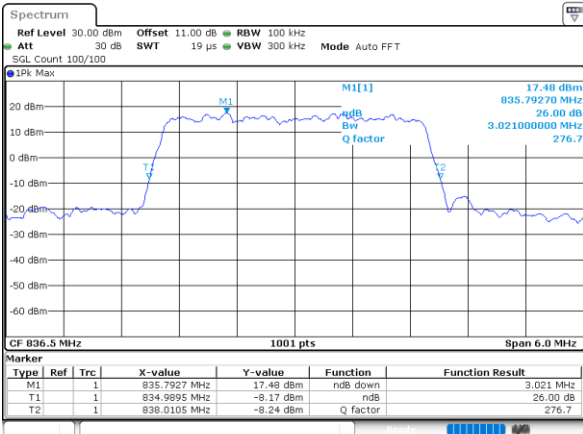
Date: 24.AUG.2023 21:01:30

Middle Channel / 1.4MHz / 16QAM



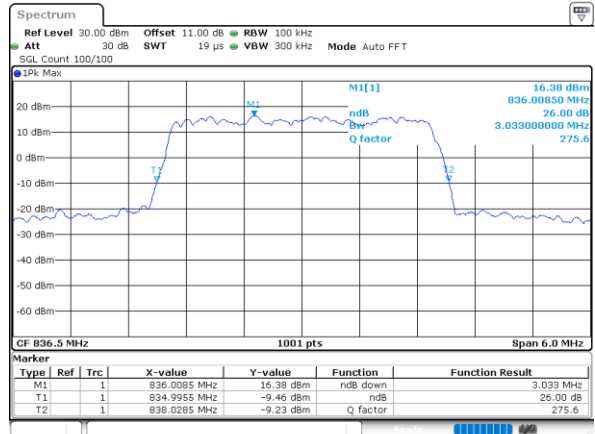
Date: 24.AUG.2023 21:02:17

Middle Channel / 3MHz / QPSK



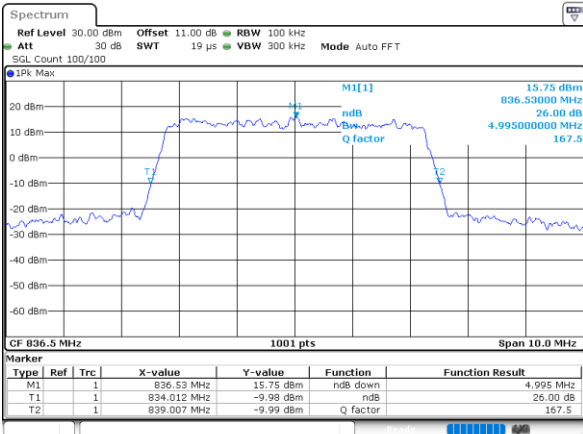
Date: 24.AUG.2023 21:09:34

Middle Channel / 3MHz / 16QAM



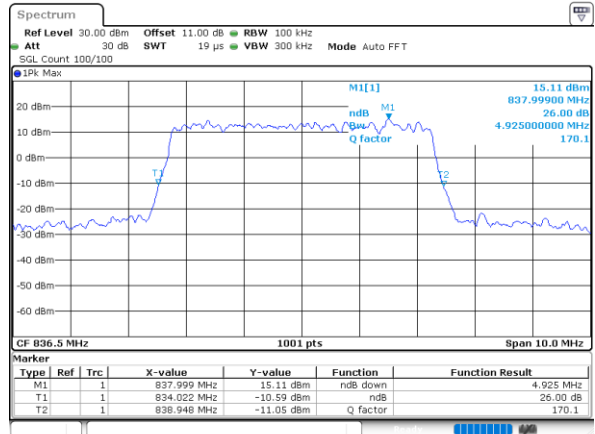
Date: 24.AUG.2023 21:10:20

Middle Channel / 5MHz / QPSK



Date: 24.AUG.2023 21:14:45

Middle Channel / 5MHz / 16QAM

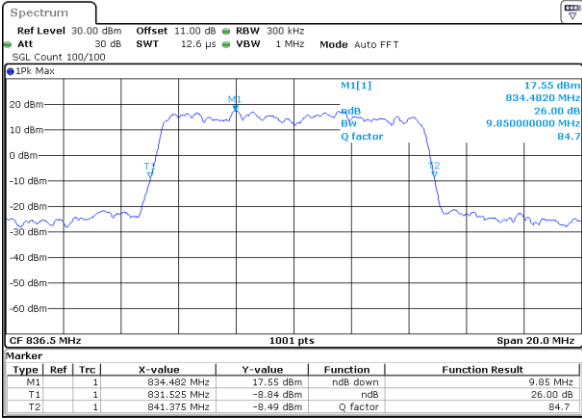


Date: 24.AUG.2023 21:15:32



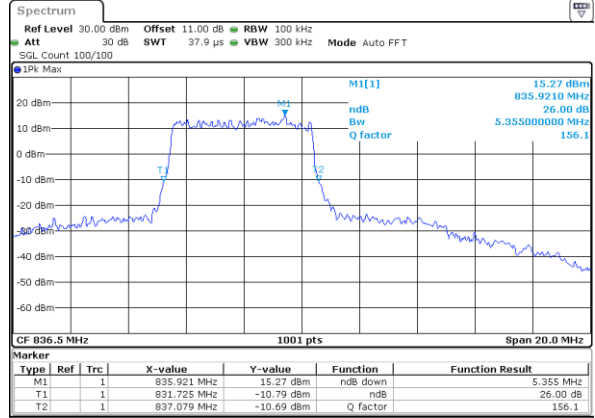
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 5,SEP,2023 20:51:26

Middle Channel / 10MHz / 16QAM



Date: 24,AUG,2023 21:21:33



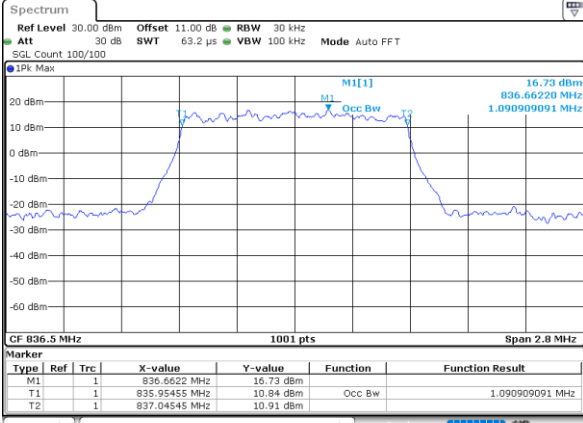
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.08	2.72	2.72	4.49	4.49	8.95	4.86	-	-	-	-

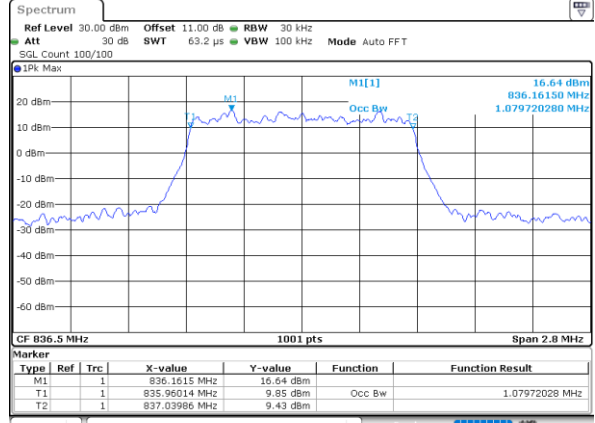


LTE Band 5

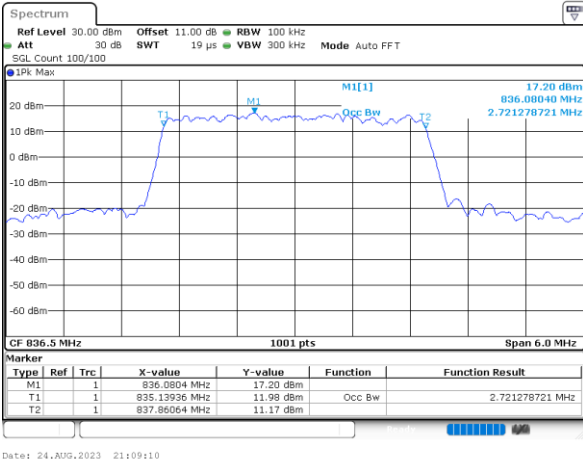
Middle Channel / 1.4MHz / QPSK



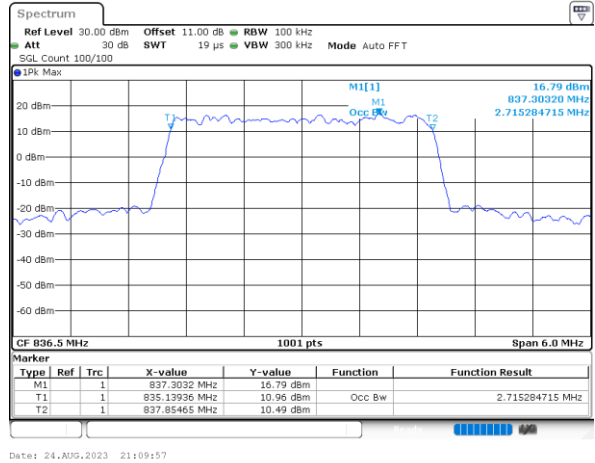
Middle Channel / 1.4MHz / 16QAM



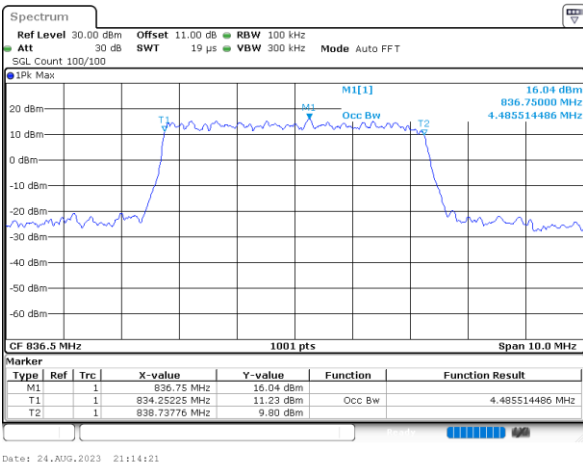
Middle Channel / 3MHz / QPSK



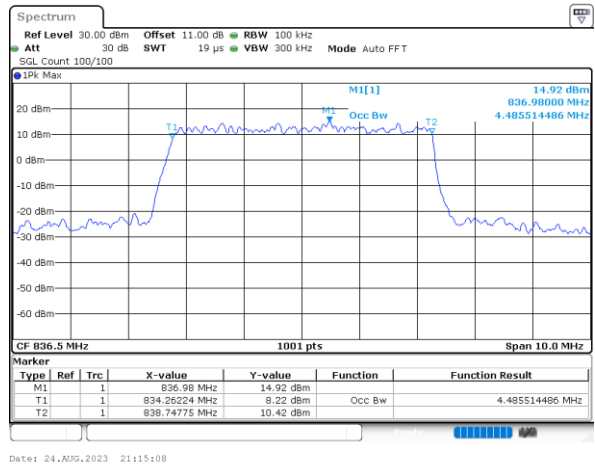
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



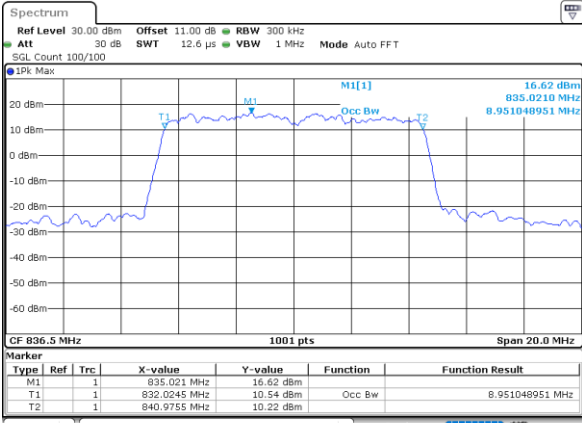
Middle Channel / 5MHz / 16QAM





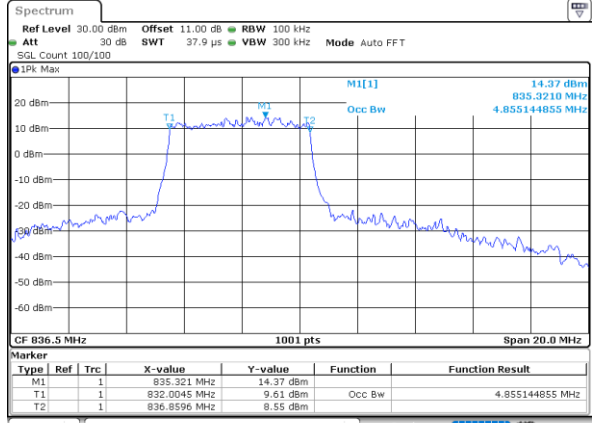
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 5.SEP.2023 20:51:03

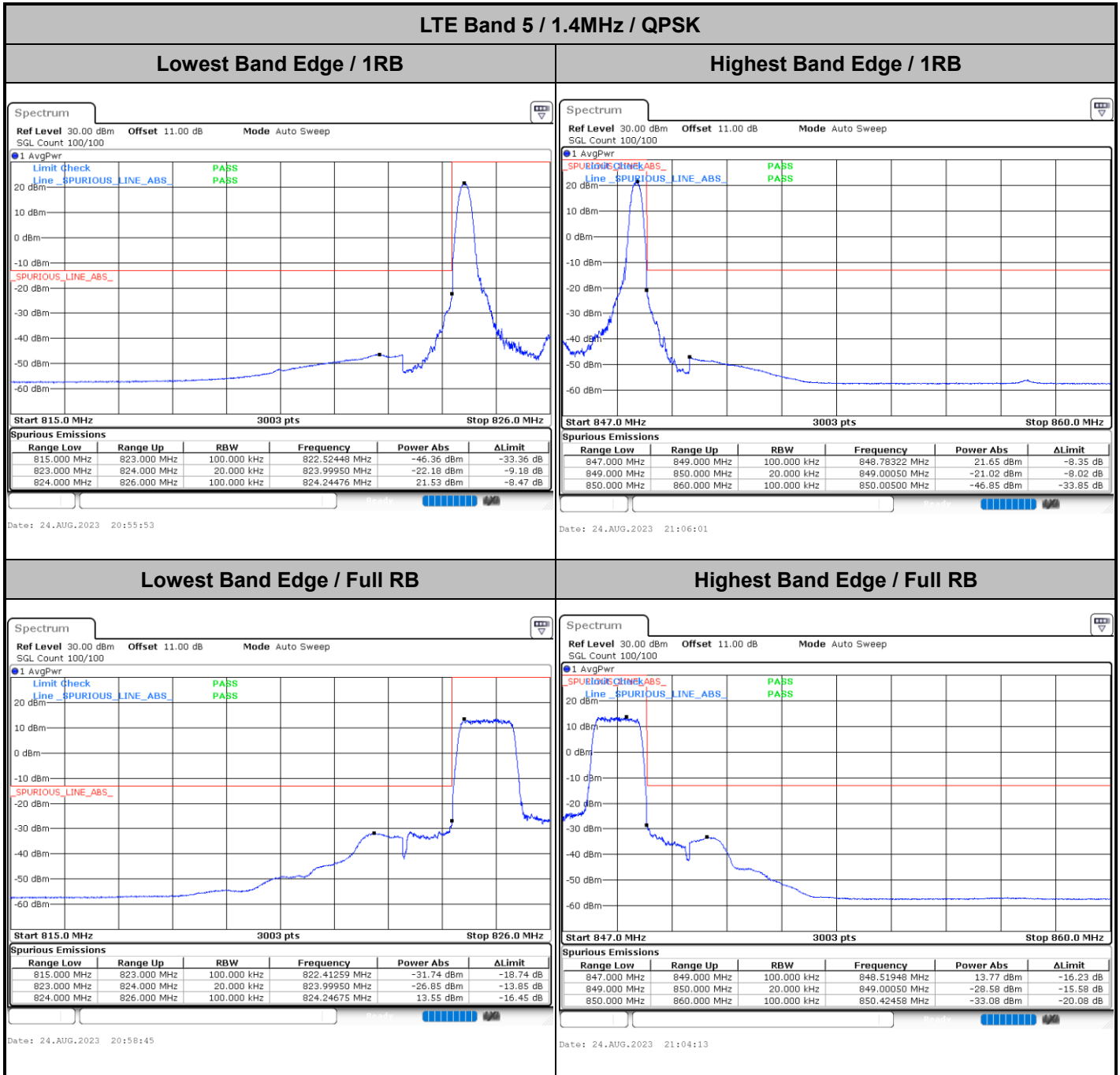
Middle Channel / 10MHz / 16QAM



Date: 24.AUG.2023 21:21:09



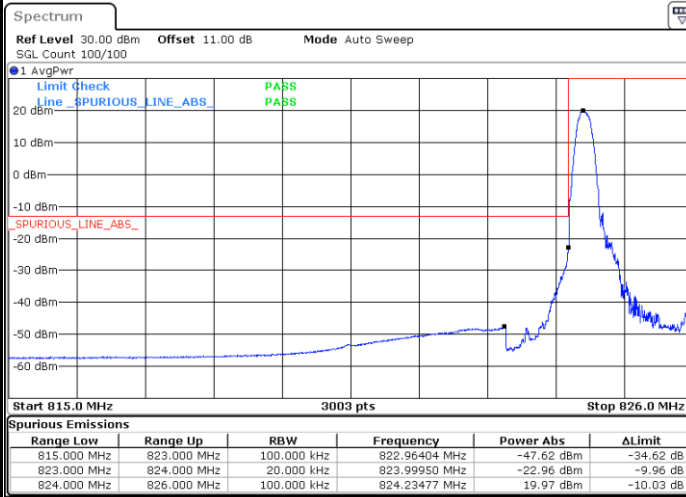
Conducted Band Edge





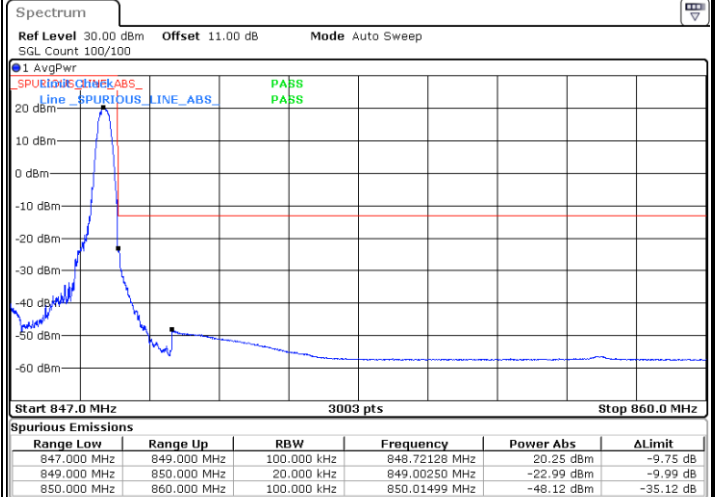
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



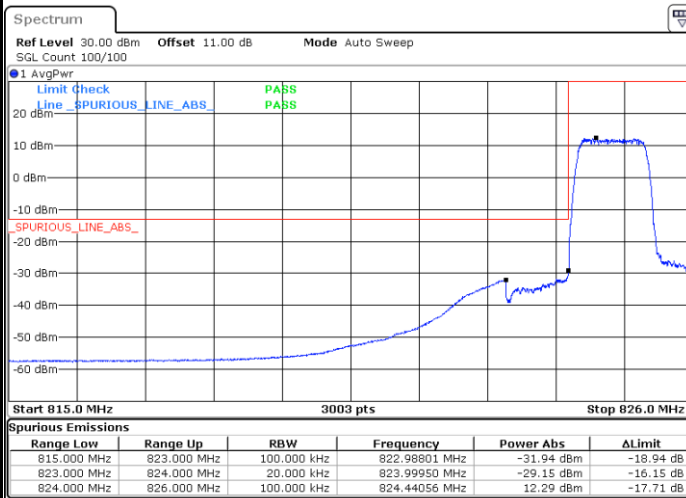
Date: 24.AUG.2023 20:56:47

Highest Band Edge / 1 RB



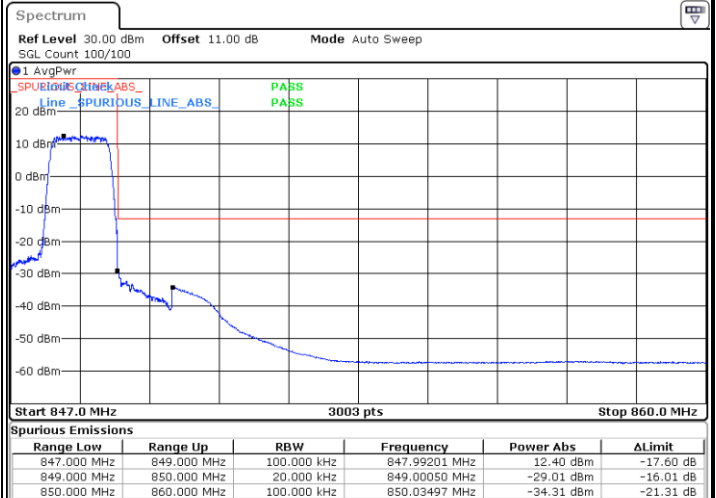
Date: 24.AUG.2023 21:06:56

Lowest Band Edge / Full RB



Date: 24.AUG.2023 20:59:39

Highest Band Edge / Full RB



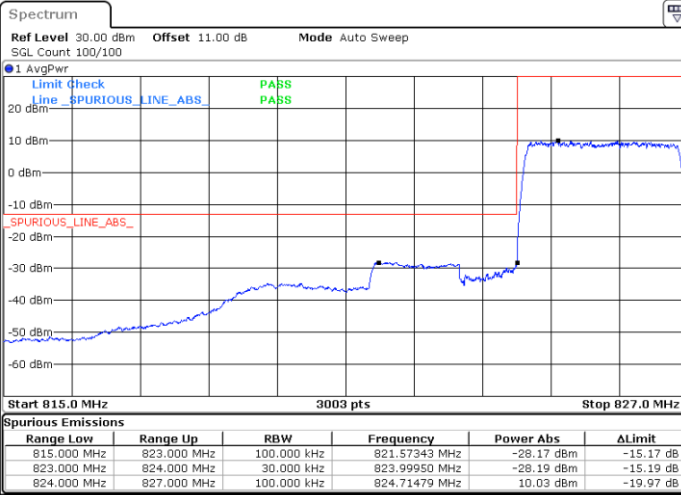
Date: 24.AUG.2023 21:05:07



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



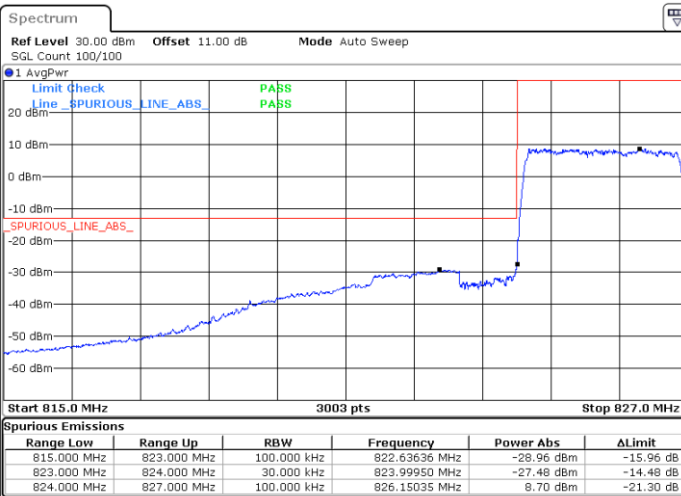
Date: 24.AUG.2023 21:07:51

Date: 24.AUG.2023 21:11:13

LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



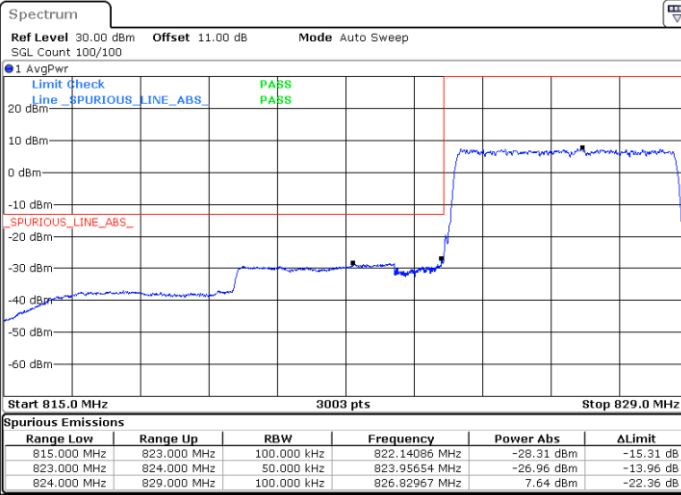
Date: 24.AUG.2023 21:08:45

Date: 24.AUG.2023 21:12:07



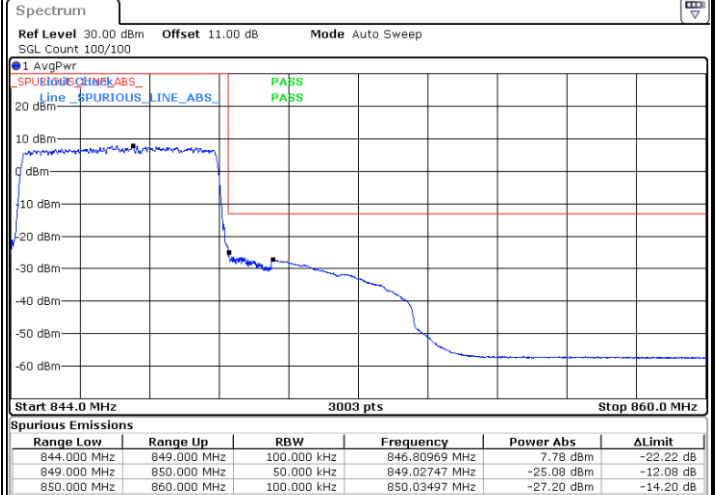
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 24.AUG.2023 21:13:02

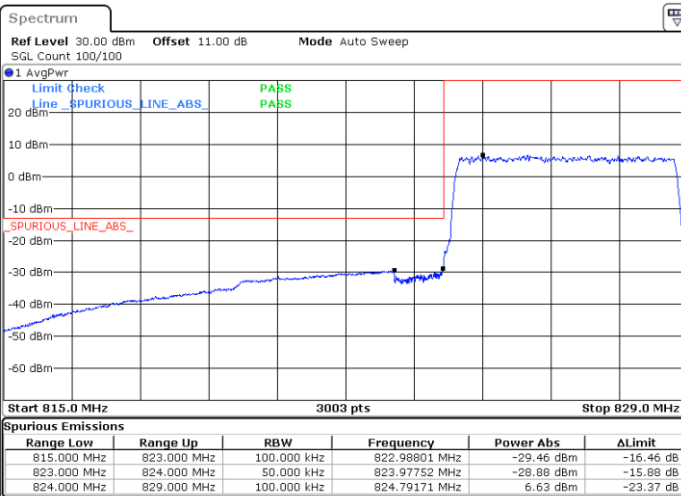
Highest Band Edge / Full RB



Date: 24.AUG.2023 21:16:25

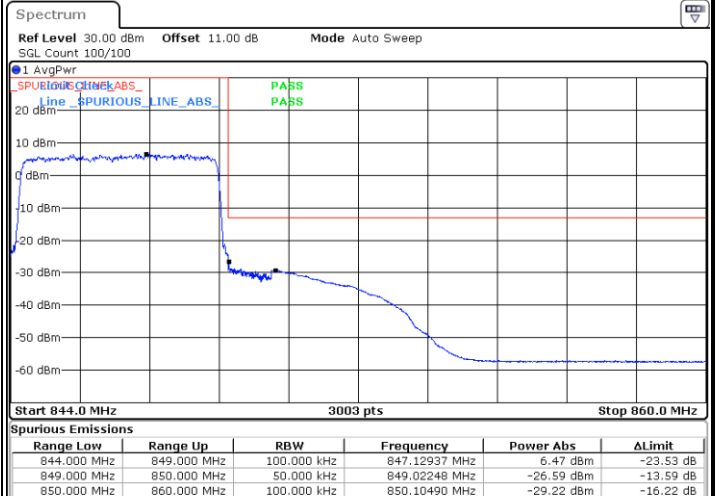
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 24.AUG.2023 21:13:57

Highest Band Edge / Full RB

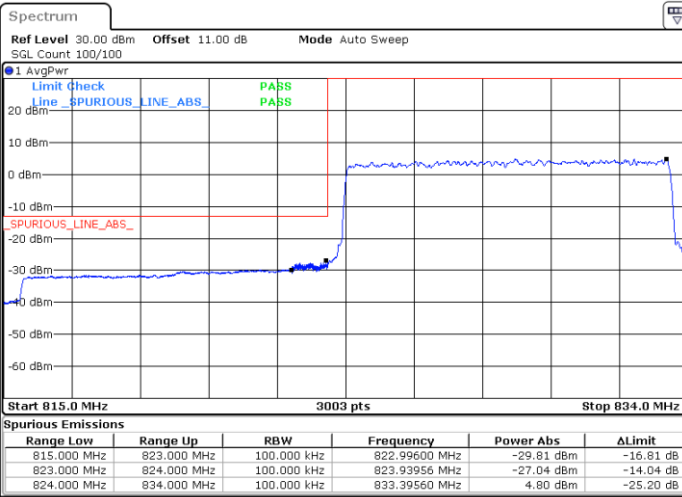


Date: 24.AUG.2023 21:17:19



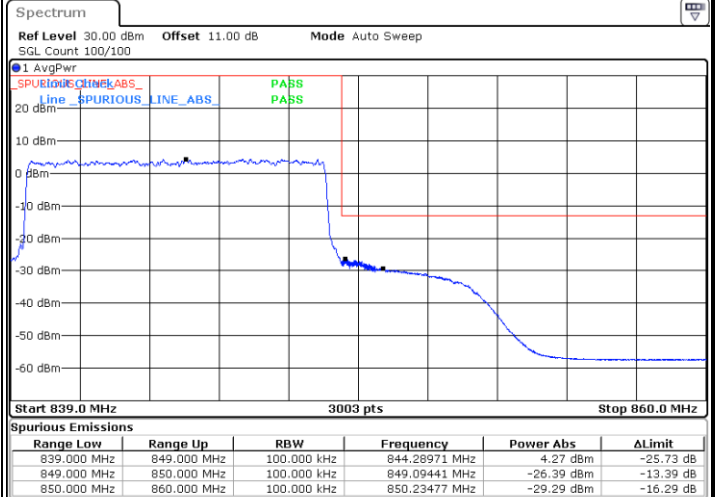
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 24.AUG.2023 21:18:14

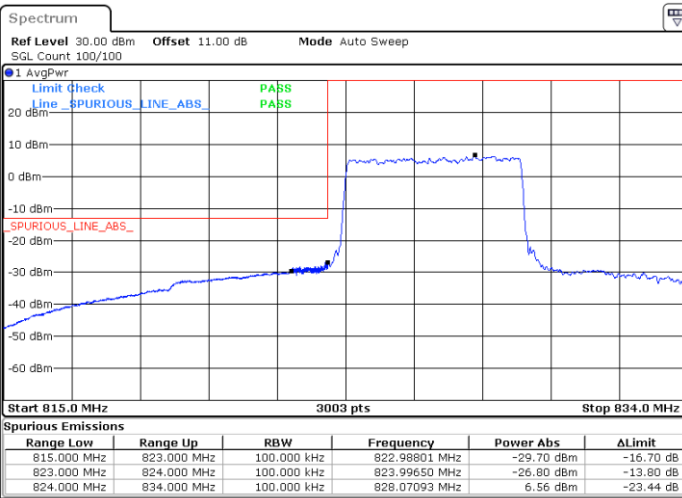
Highest Band Edge / Full RB



Date: 24.AUG.2023 21:22:26

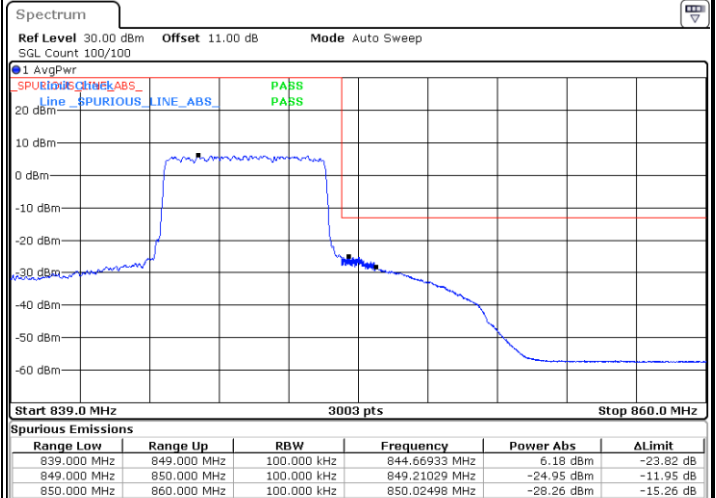
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 27 RB



Date: 24.AUG.2023 21:19:08

Highest Band Edge / 27 RB



Date: 26.AUG.2023 00:31:33

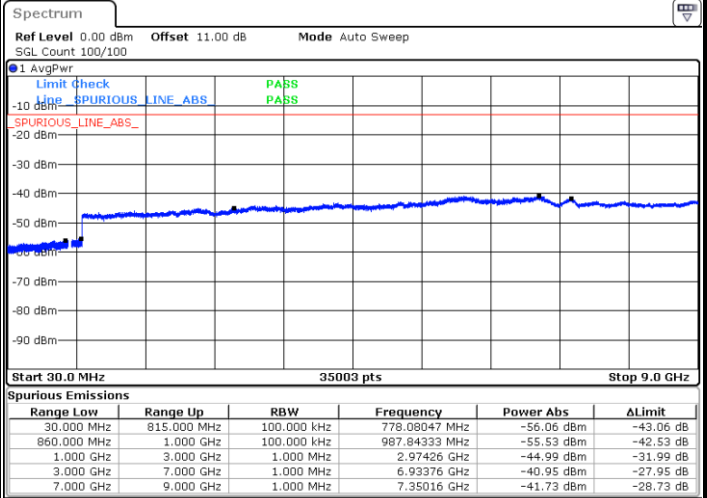
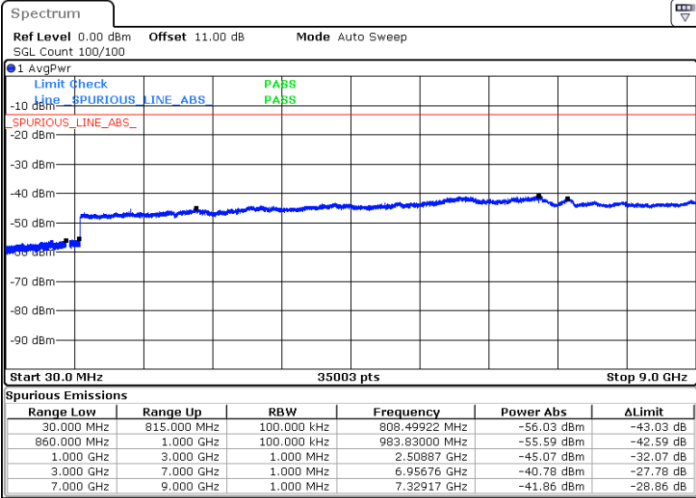


Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

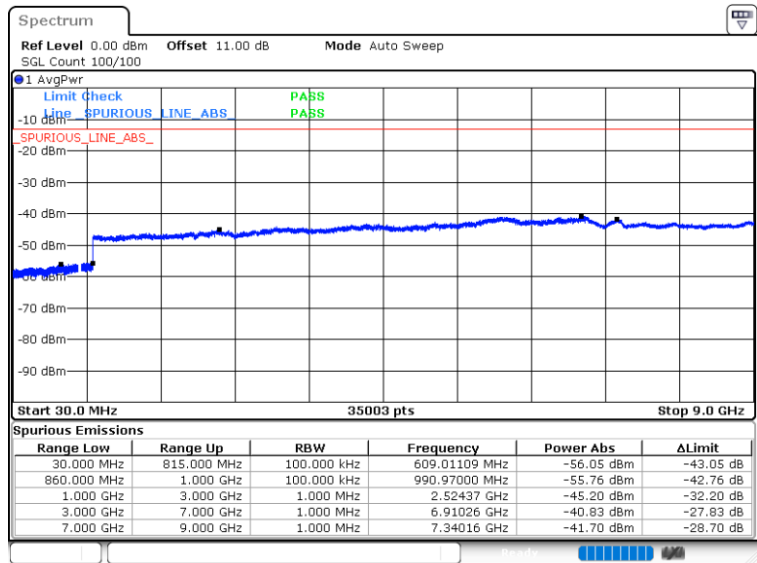
Middle Channel / QPSK



Date: 24.AUG.2023 20:57:51

Date: 24.AUG.2023 21:00:43

Highest Channel / QPSK

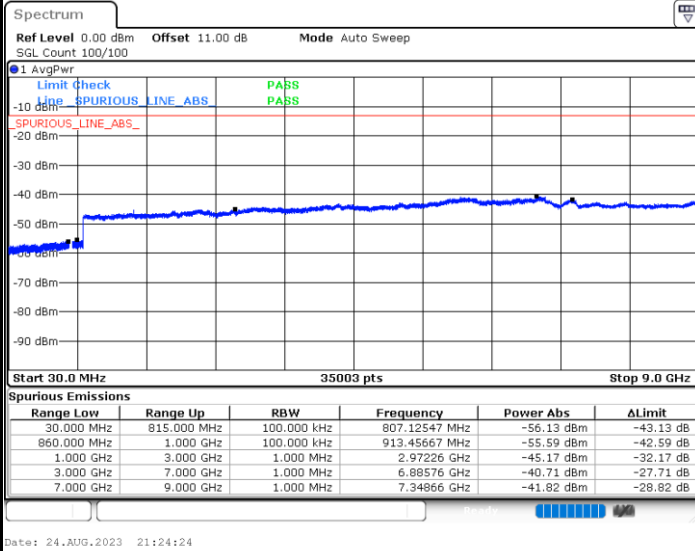


Date: 24.AUG.2023 21:03:19

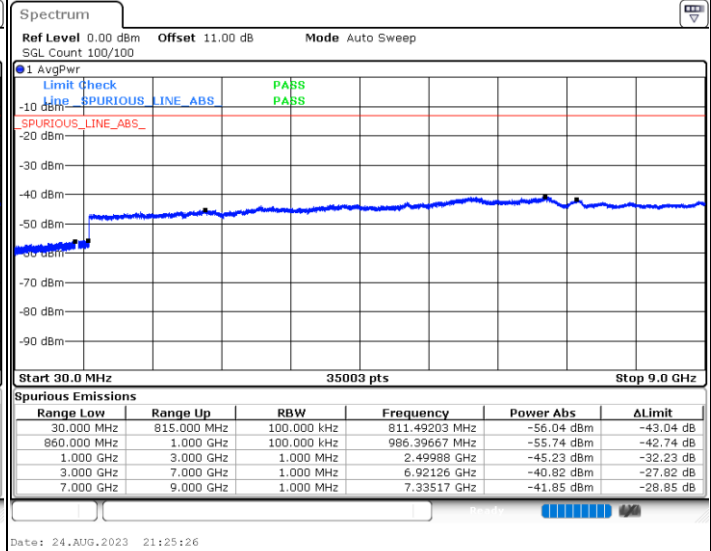


LTE Band 5 / 3MHz

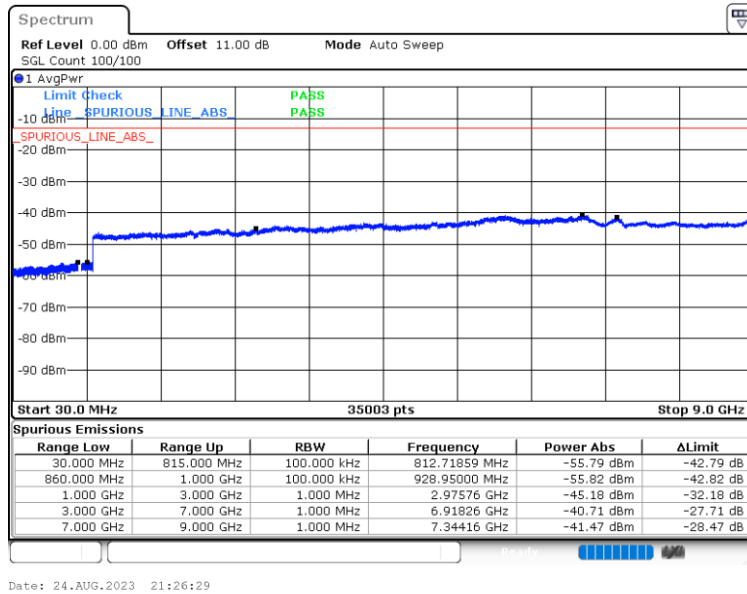
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

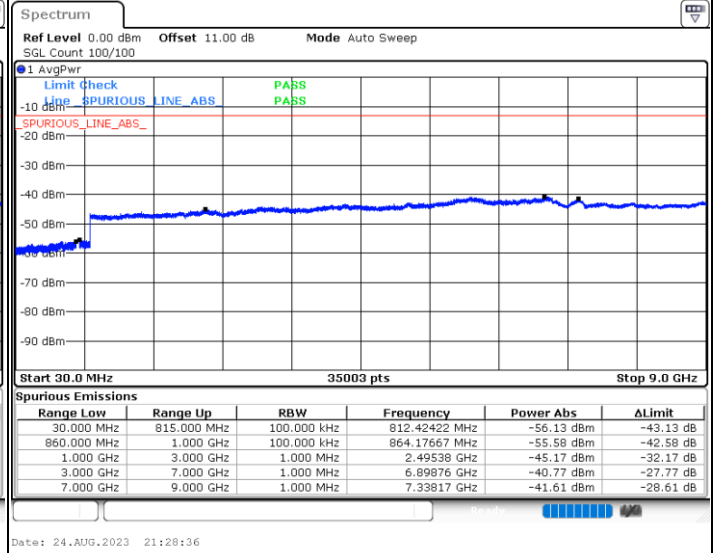
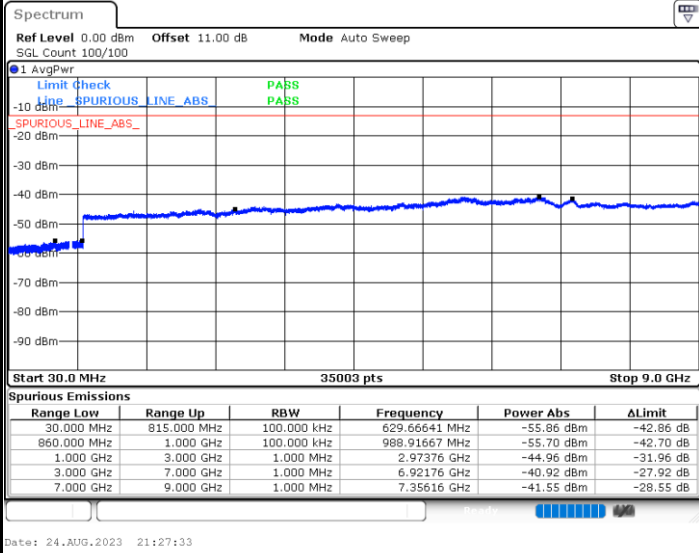




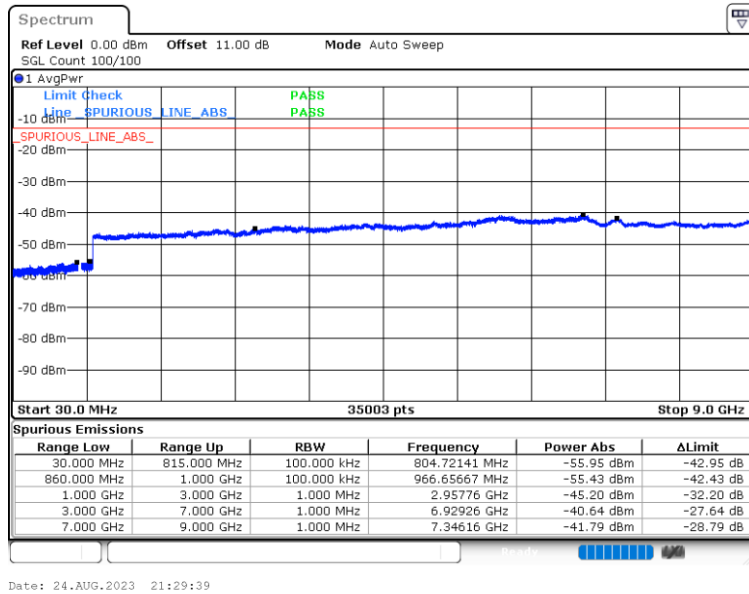
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

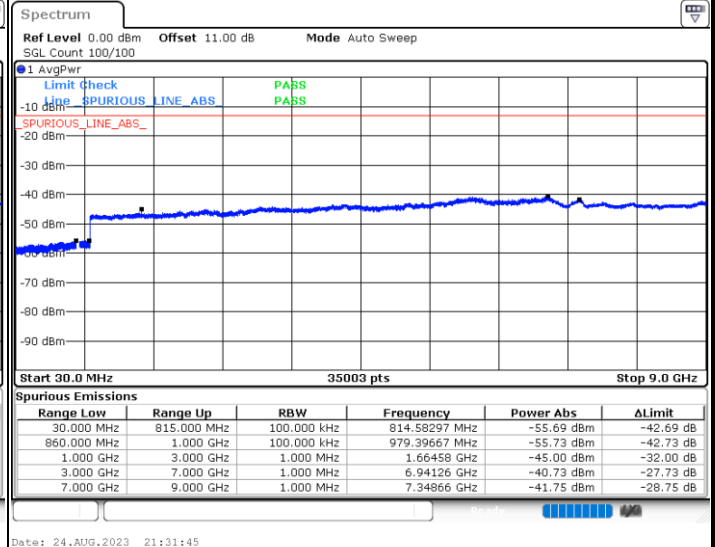
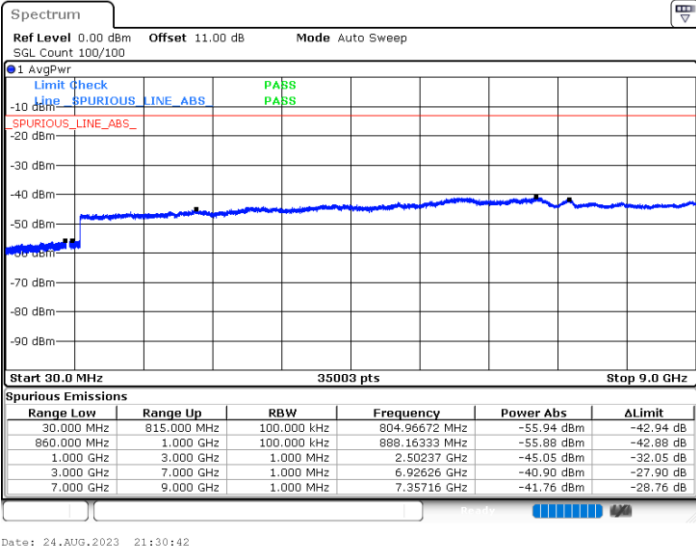




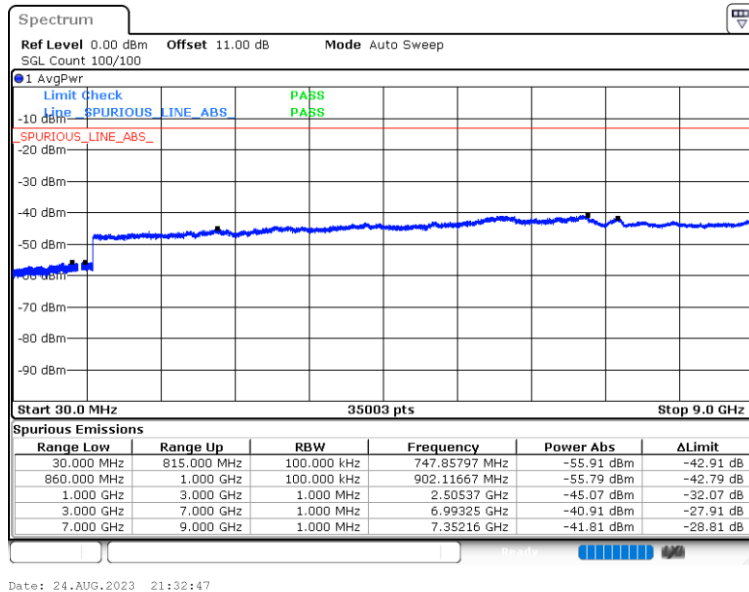
LTE Band 5 / 10MHz

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	0.0016	PASS
40	Normal Voltage	0.0176	
30	Normal Voltage	0.0074	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0051	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0049	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

Note:

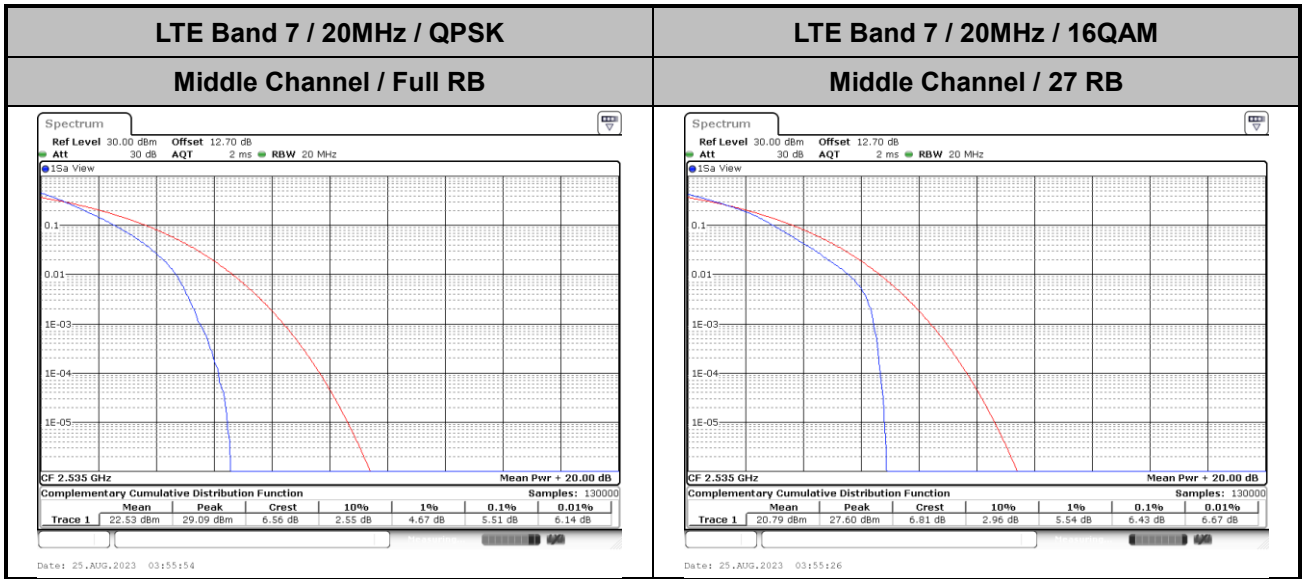
- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	5.51	6.43	PASS





26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.92	9.81	5.36	14.39	5.37	18.66	5.75