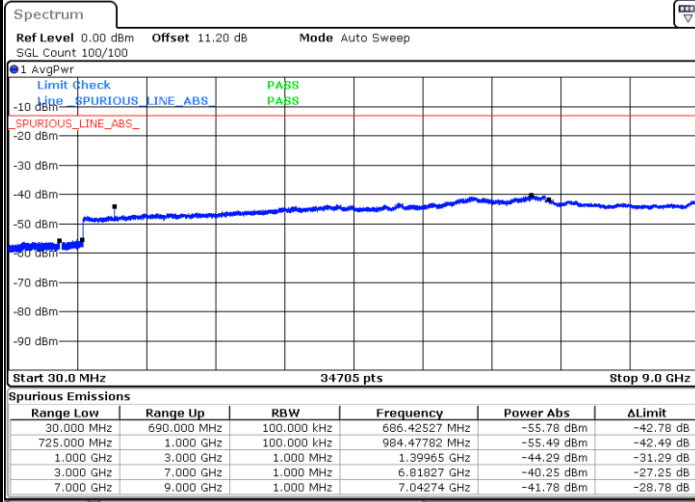




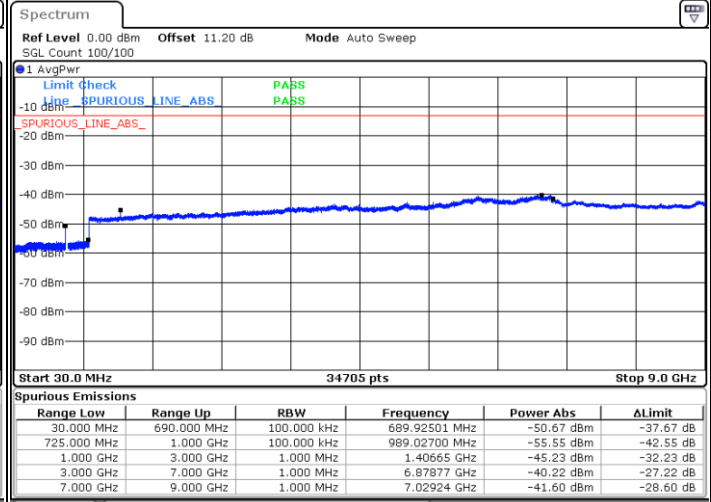
LTE Band 12 / 10MHz

Lowest Channel / QPSK



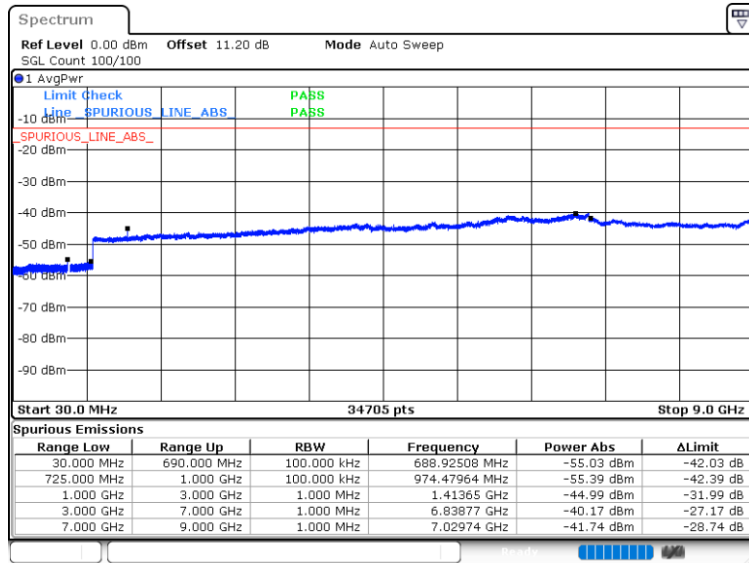
Date: 17.NOV.2023 17:35:44

Middle Channel / QPSK



Date: 17.NOV.2023 17:36:58

Highest Channel / QPSK



Date: 17.NOV.2023 17:38:13



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0205	PASS
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0141	
20	Maximum Voltage	0.0090	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0038	

Note:

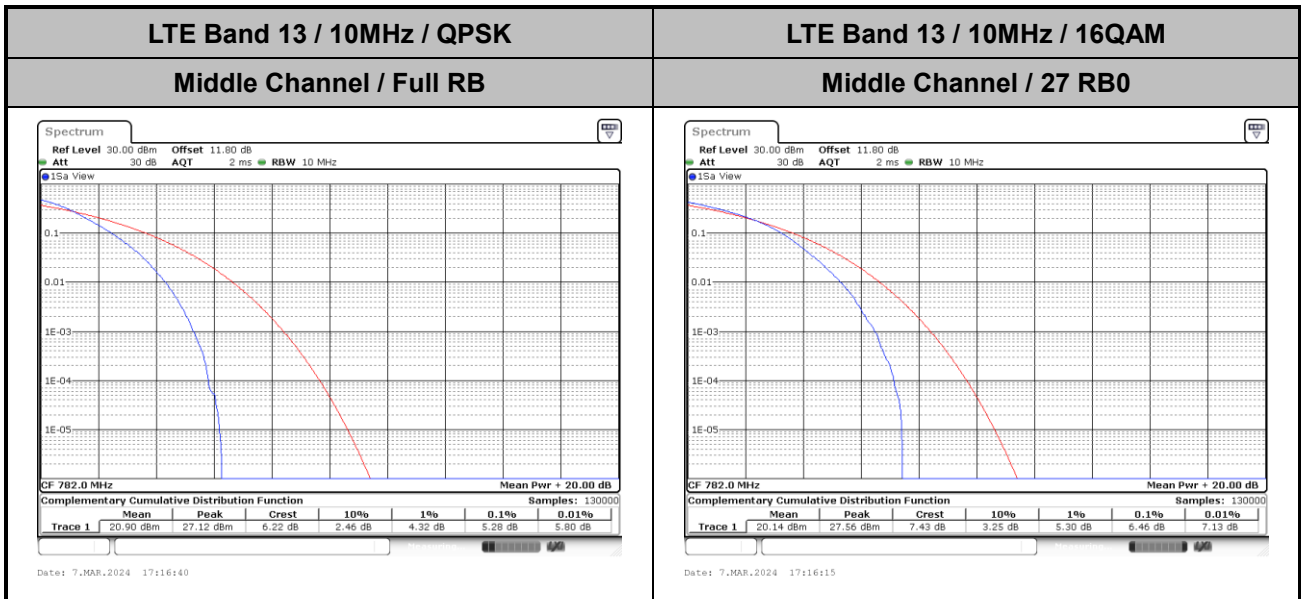
- 1. Normal Voltage = 3.88 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

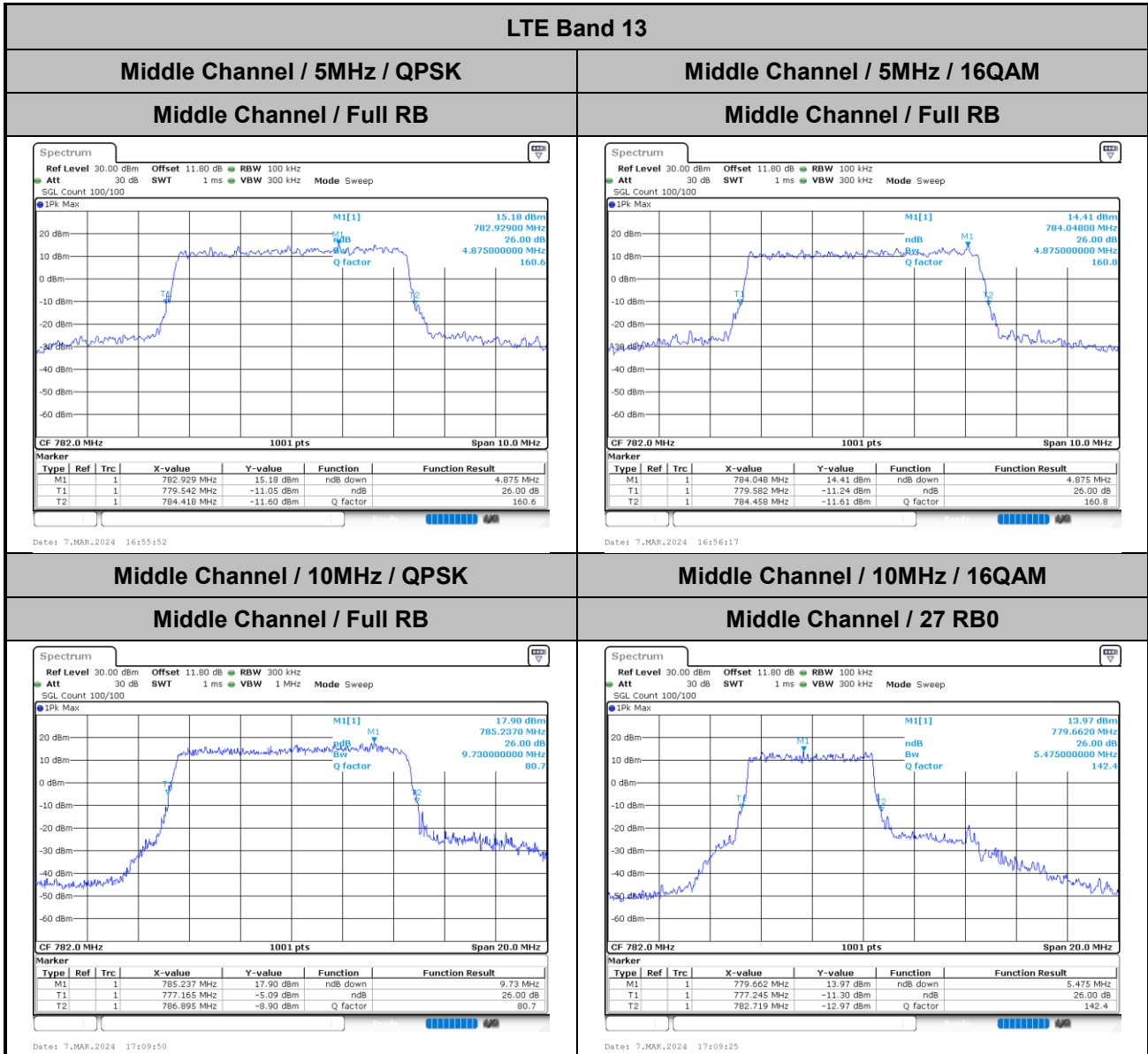
Mode	LTE Band 13 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	5.28	6.46	PASS





26dB Bandwidth

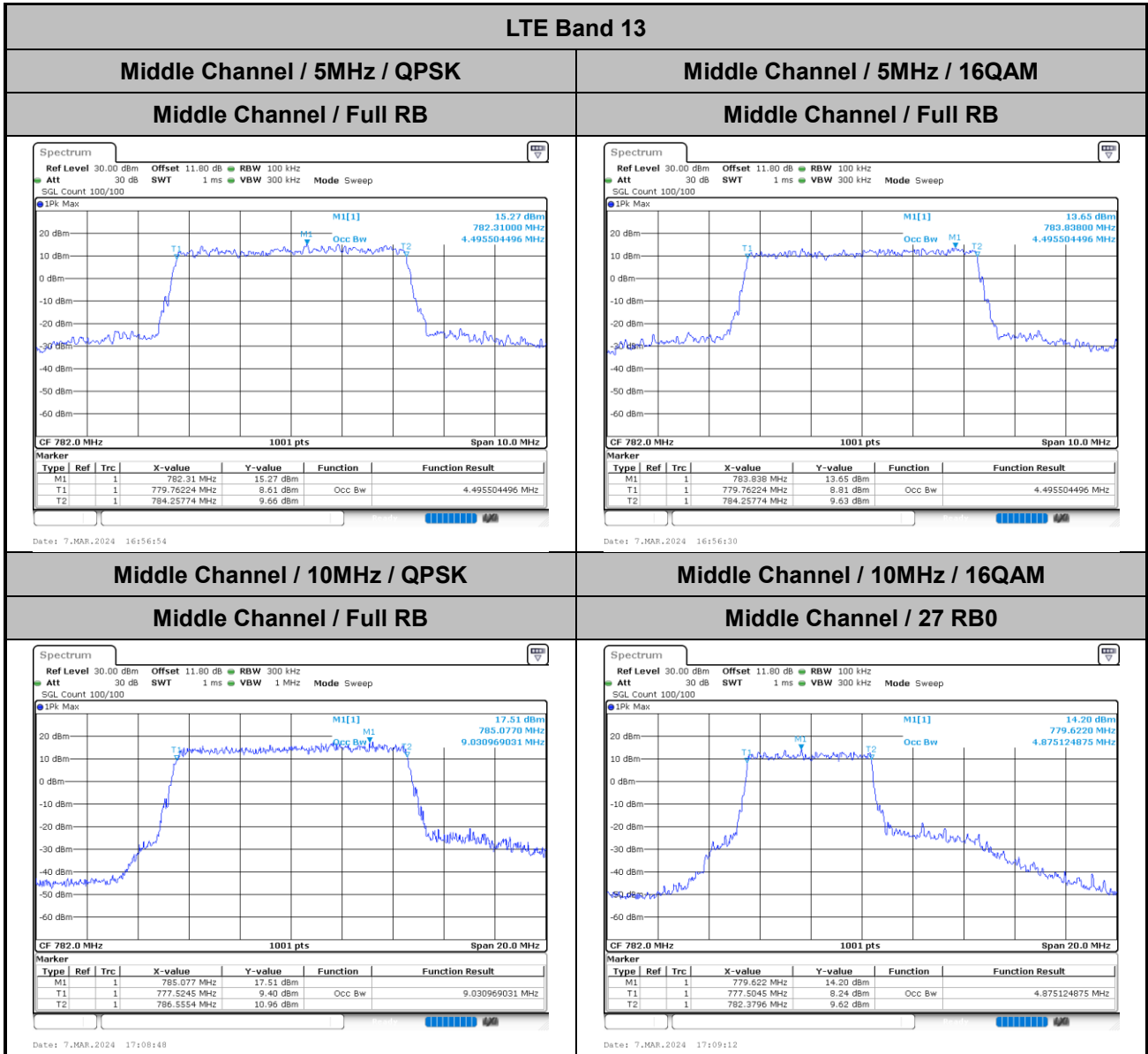
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.87	4.87	9.73	5.47	-	-	-	-





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
Middle CH	-	-	-	-	4.49	4.49	9.03	4.87	-	-	-	-



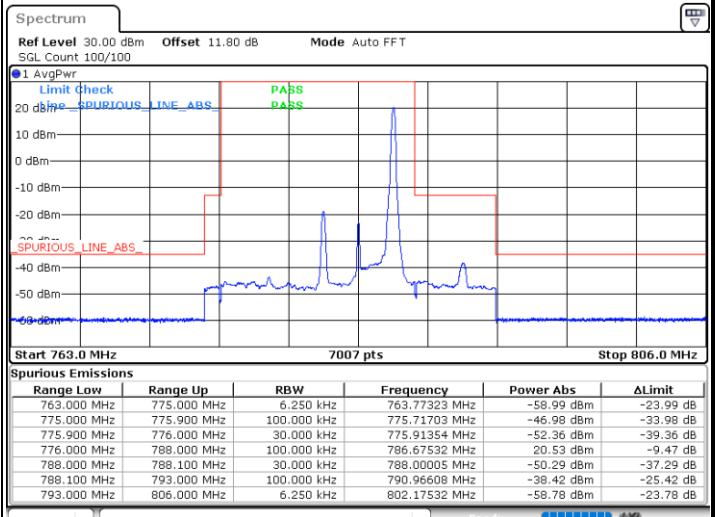
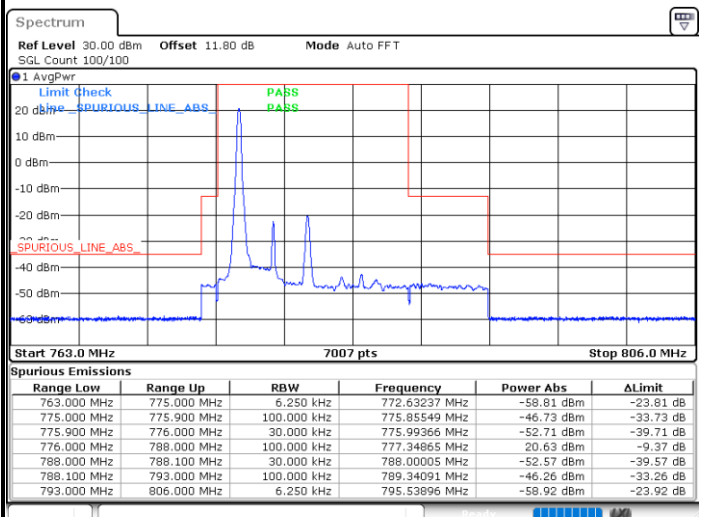


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB 0

Highest Band Edge / 1 RB max

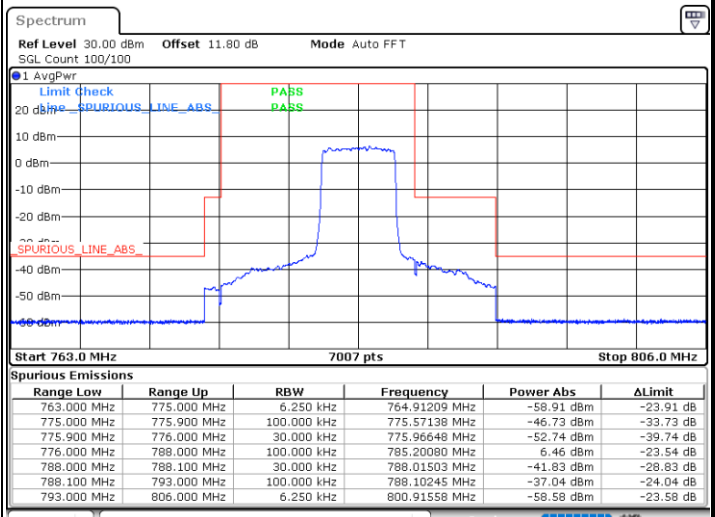
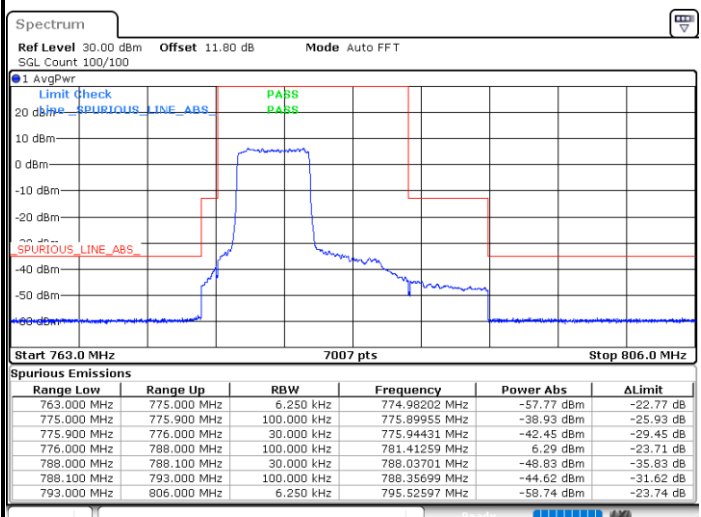


Date: 7.MAR.2024 16:53:13

Date: 7.MAR.2024 17:05:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.MAR.2024 16:47:01

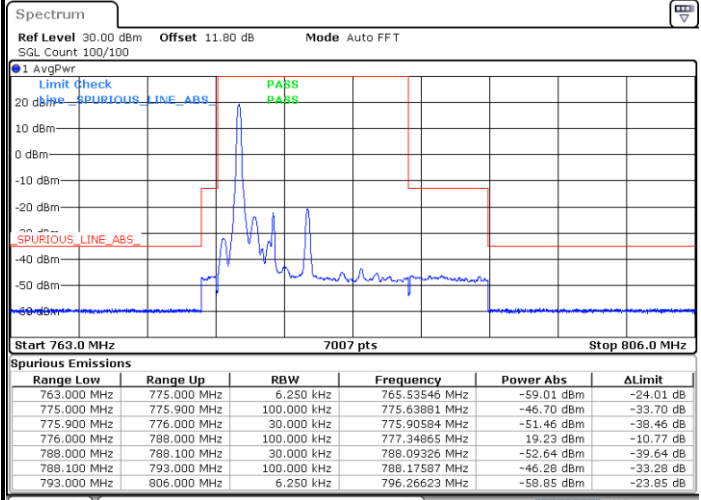
Date: 7.MAR.2024 16:58:57



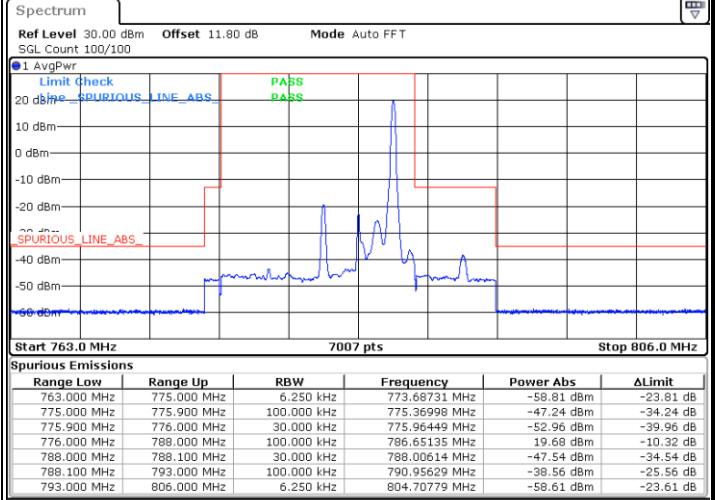
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB0

Highest Band Edge / 1 RBmax



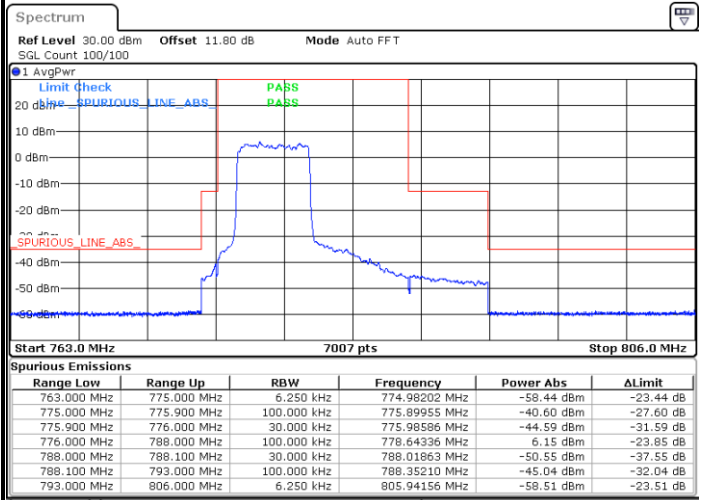
Date: 7.MAR.2024 16:51:09



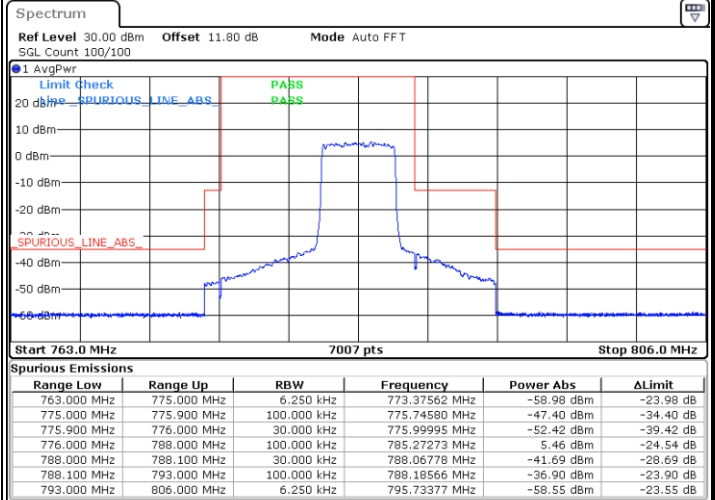
Date: 7.MAR.2024 17:03:06

Lowest Band Edge / Full RB

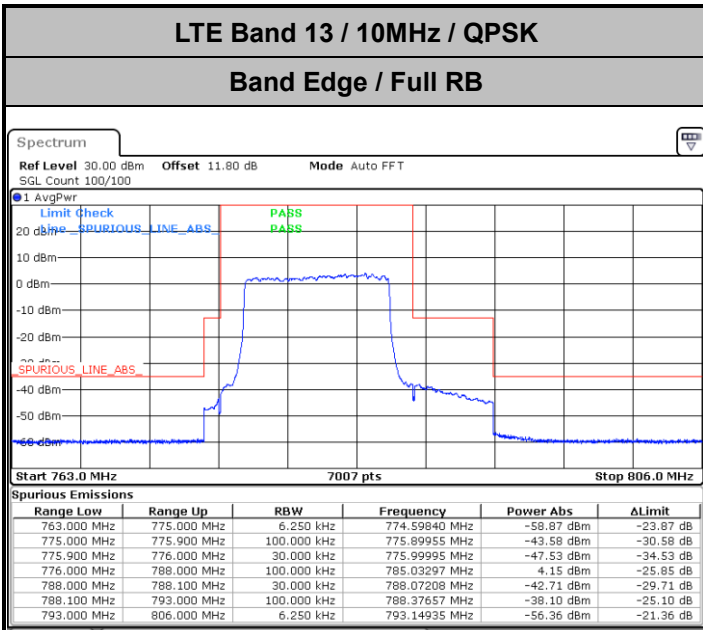
Highest Band Edge / Full RB



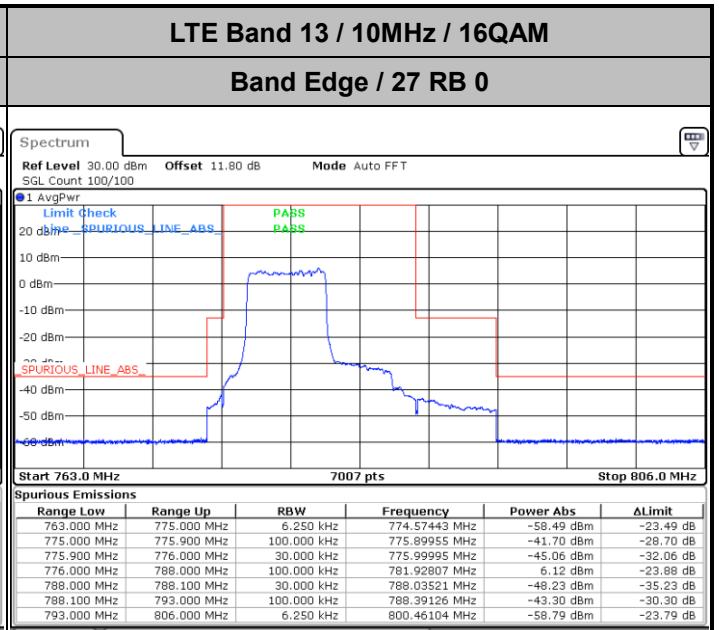
Date: 7.MAR.2024 16:49:05



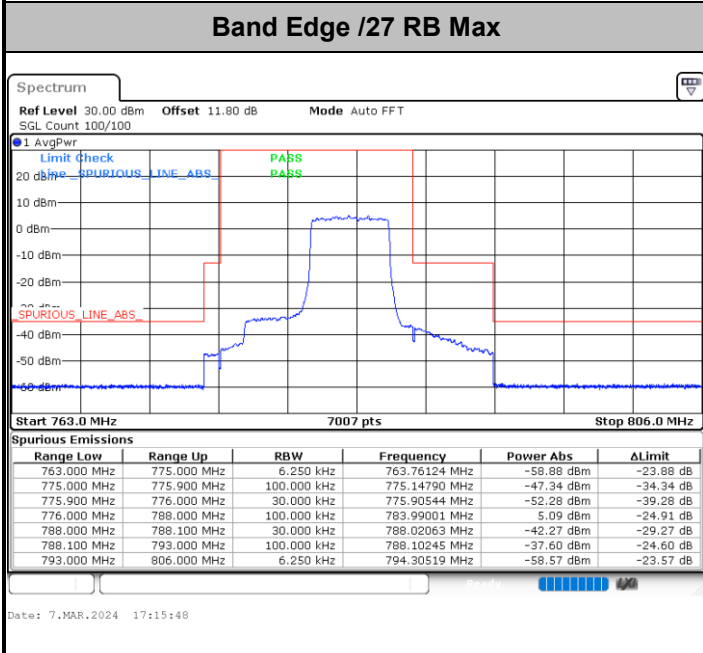
Date: 7.MAR.2024 17:01:01



Date: 7.MAR.2024 17:11:41



Date: 7.MAR.2024 17:13:45



Date: 7.MAR.2024 17:15:48

N/A



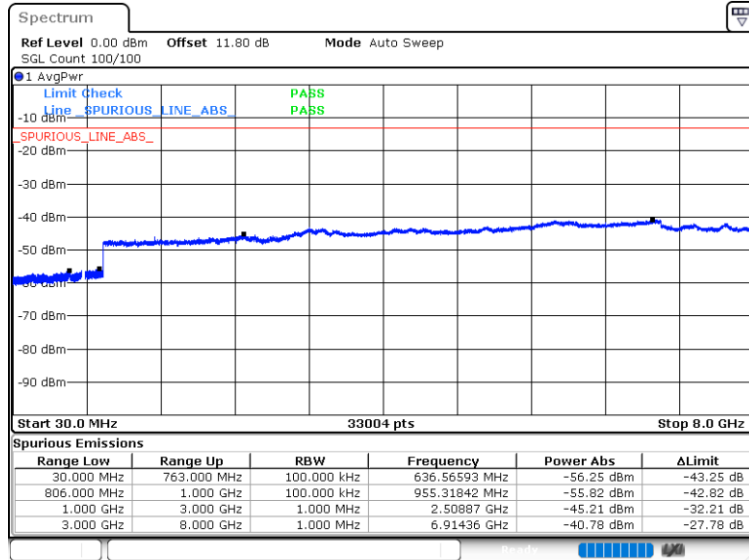
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 7.MAR.2024 17:17:53



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0034	PASS
30	Normal Voltage	0.0073	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0040	
0	Normal Voltage	0.0015	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

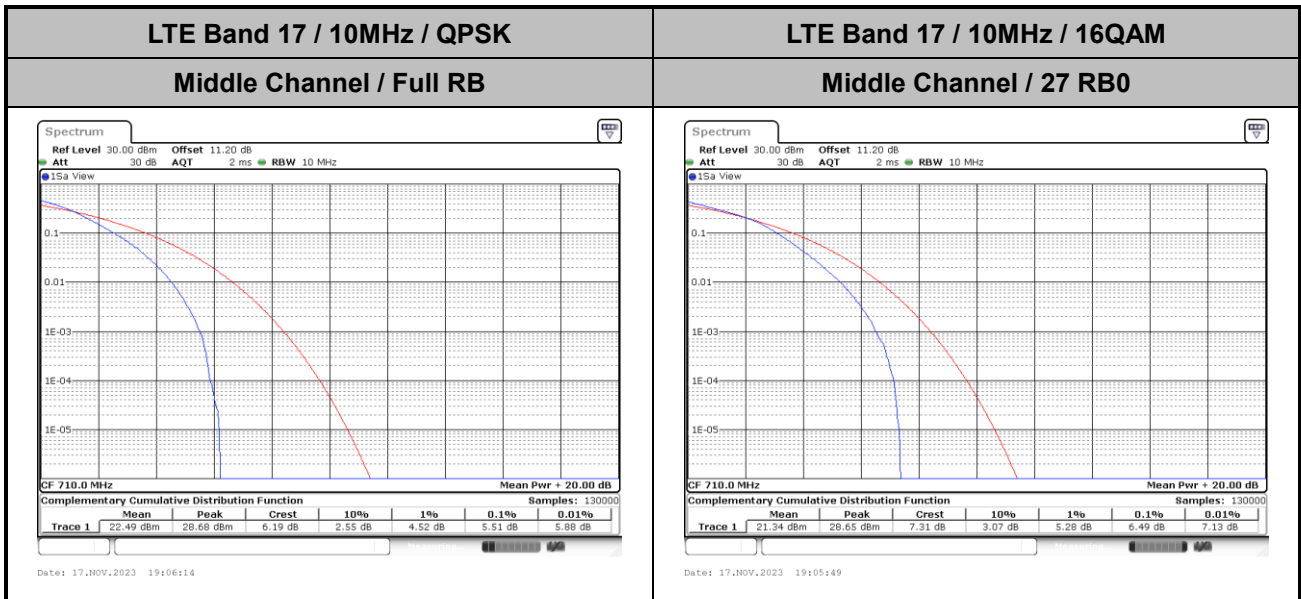
- 1. Normal Voltage =3.88 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

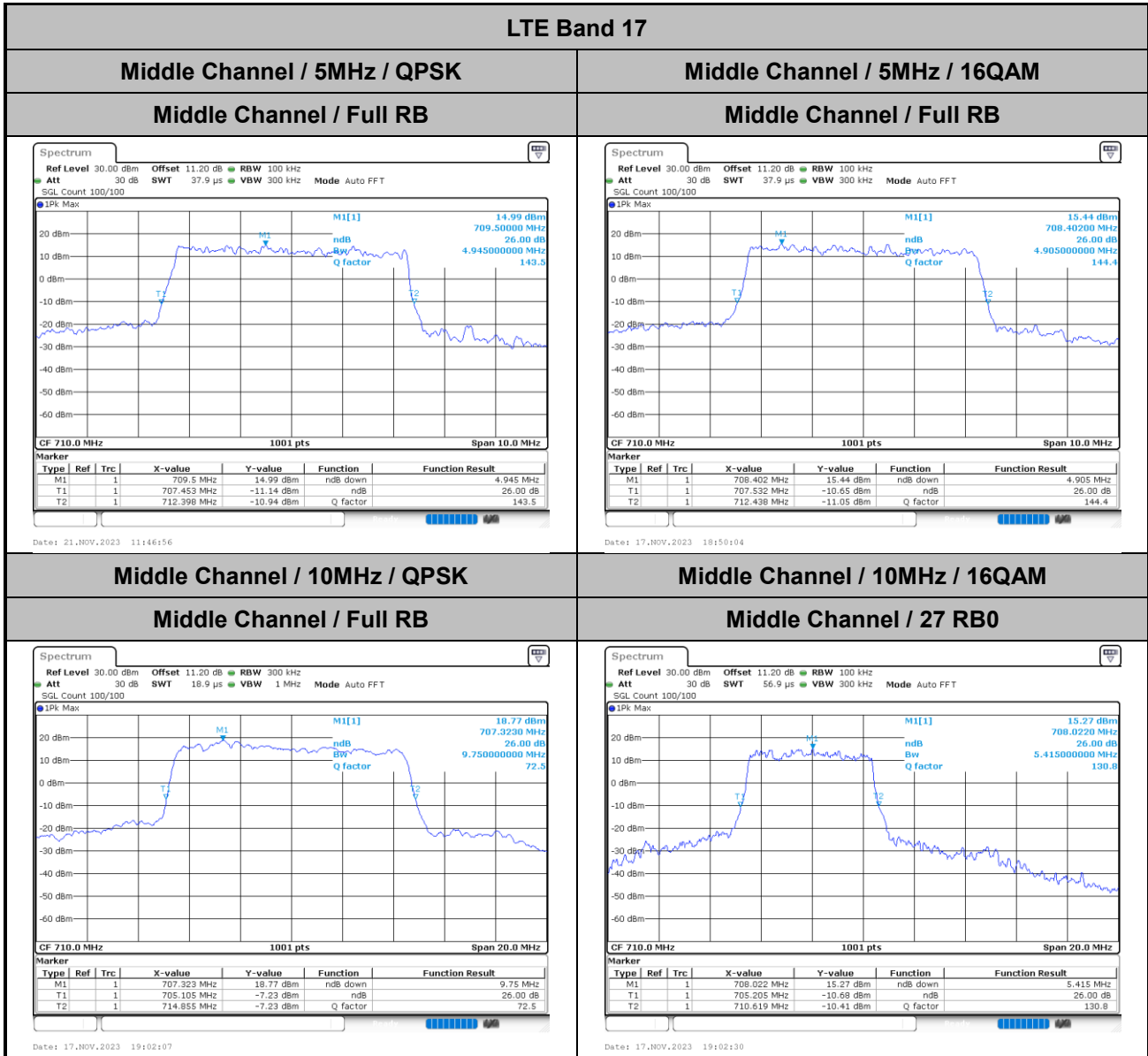
Mode	LTE Band 17 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	5.51	6.49	PASS





26dB Bandwidth

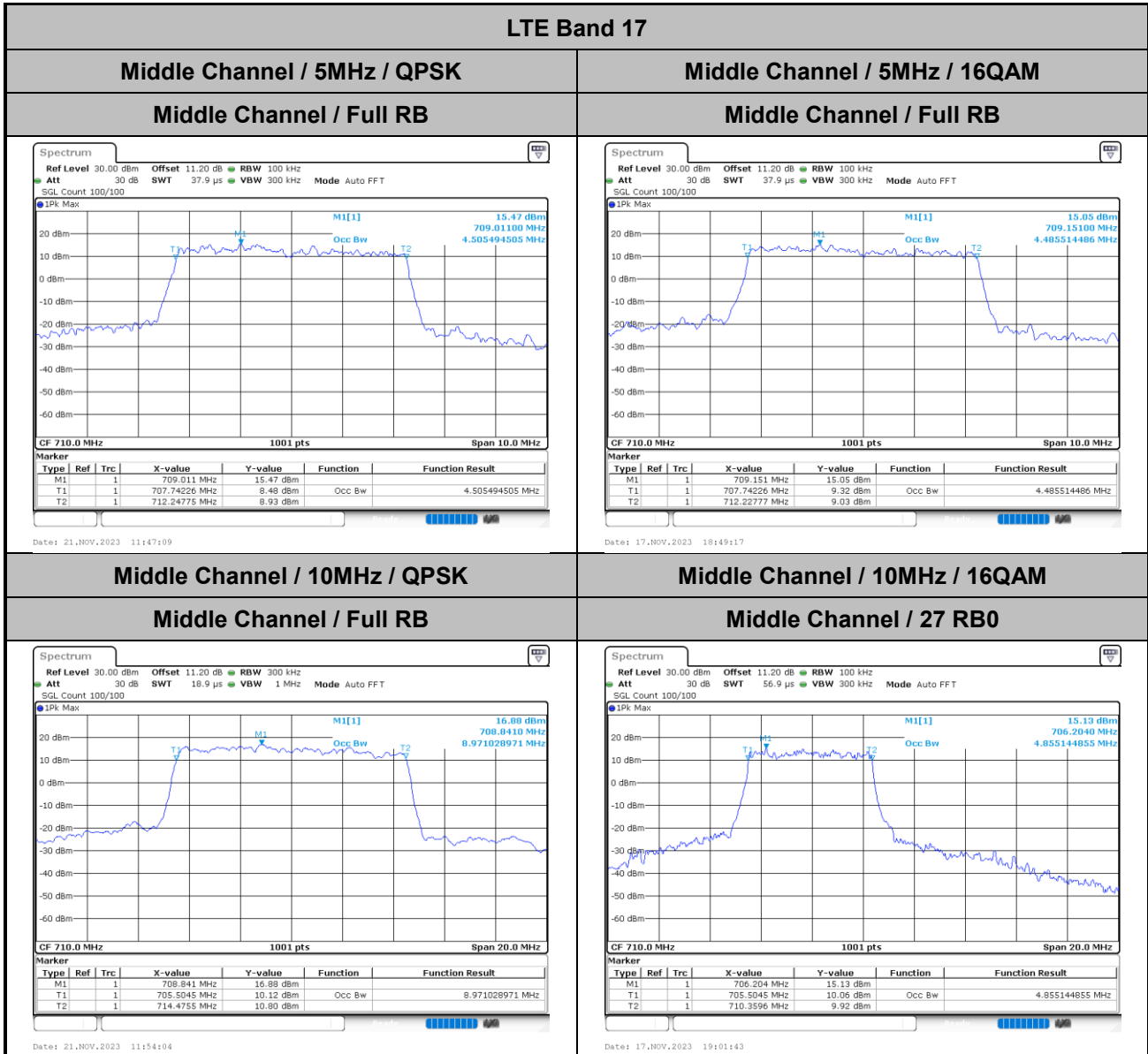
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.91	9.75	5.42	-	-	-	-





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	-	-	-	-	4.51	4.49	8.97	4.86	-	-	-	-



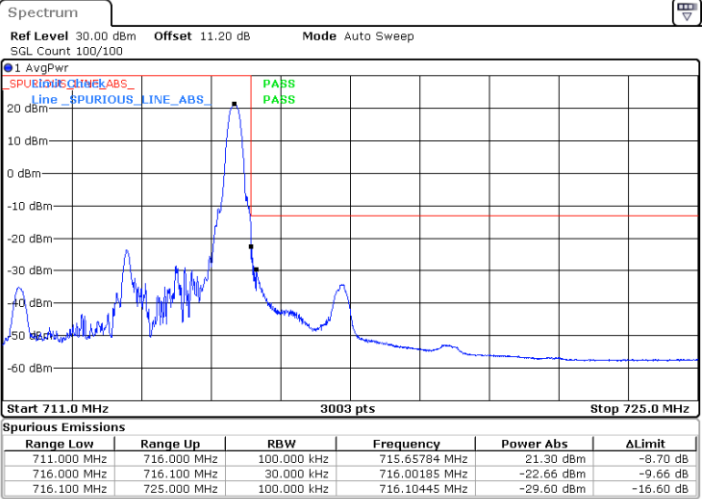
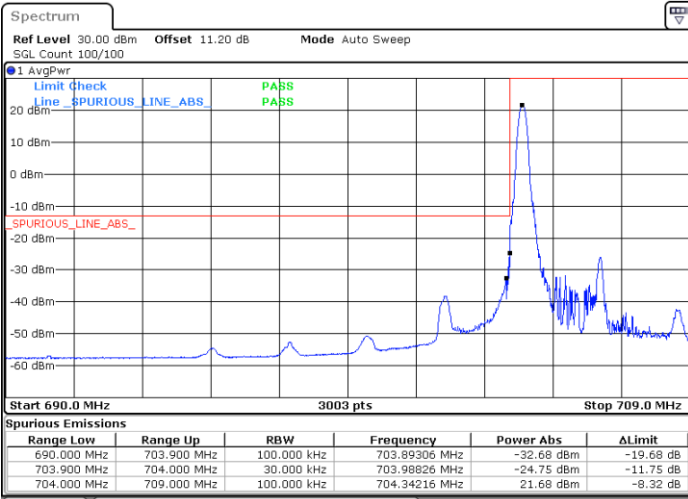


Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB0

Highest Band Edge / 1 RBmax

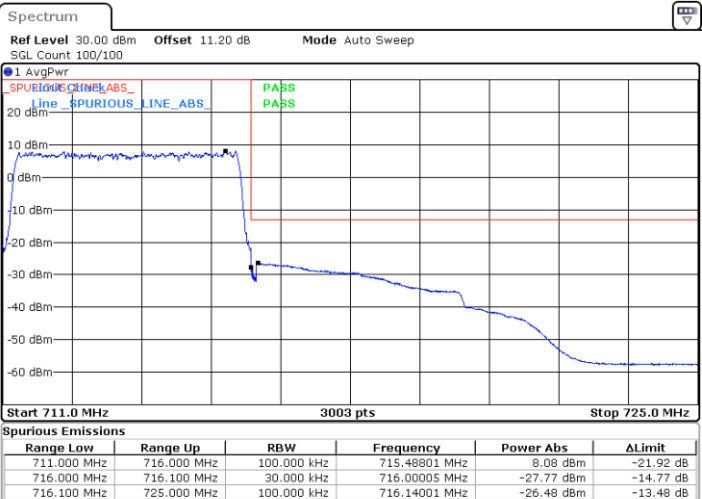
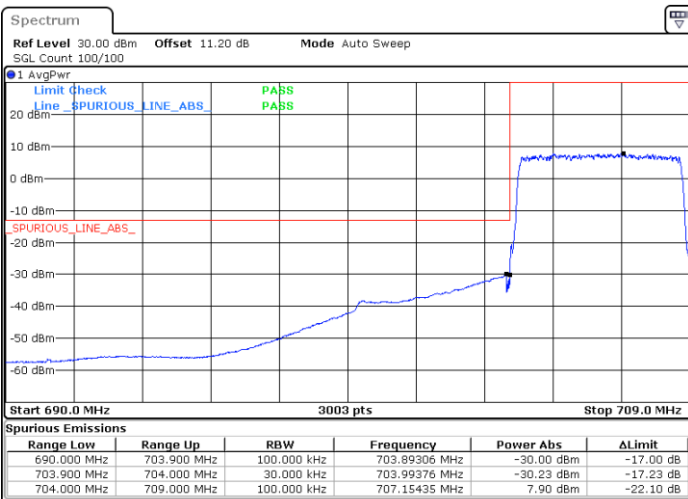


Date: 17.NOV.2023 18:42:47

Date: 17.NOV.2023 18:52:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.NOV.2023 18:45:48

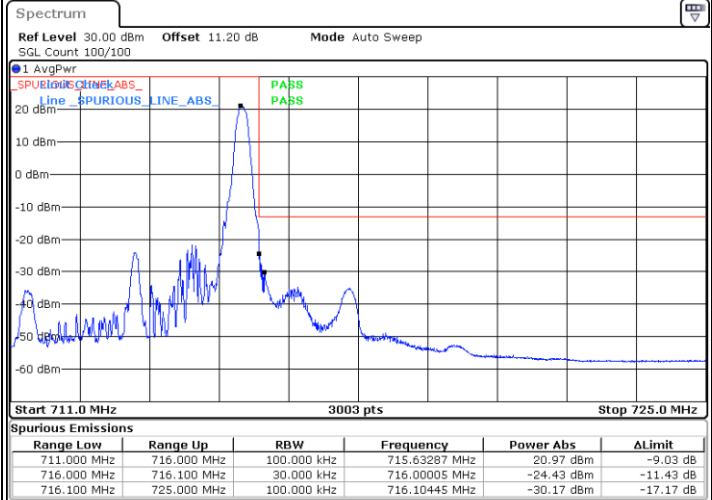
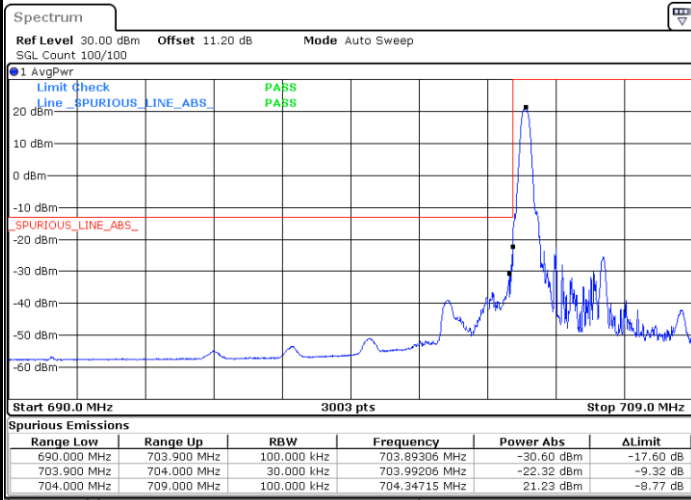
Date: 17.NOV.2023 18:55:28



LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB0

Highest Band Edge / 1 RBmax

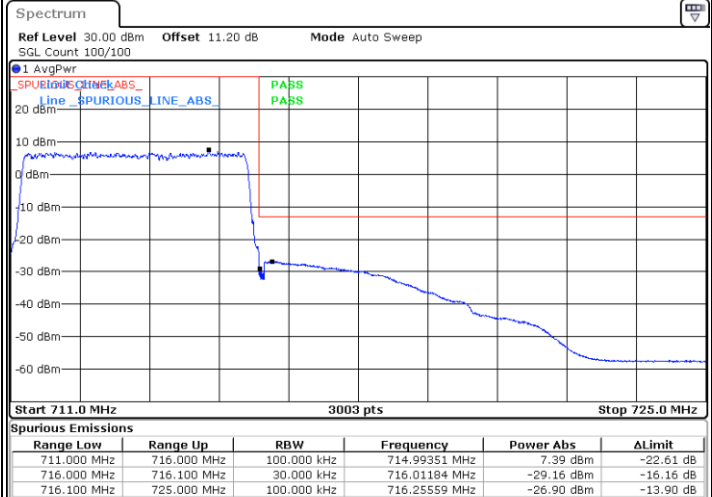
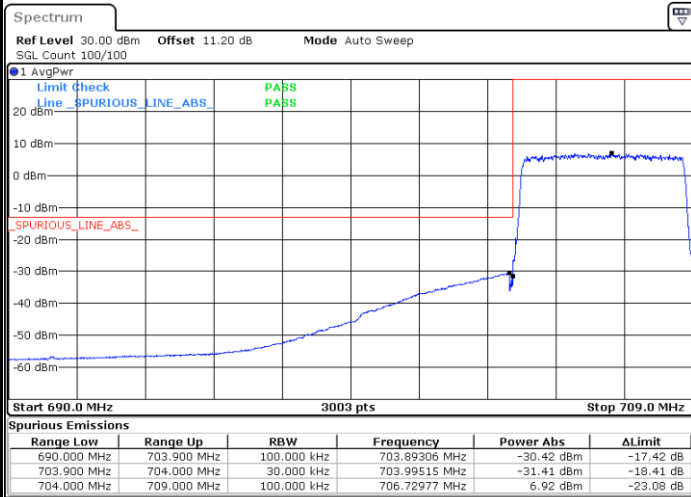


Date: 17.NOV.2023 19:28:23

Date: 17.NOV.2023 18:54:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

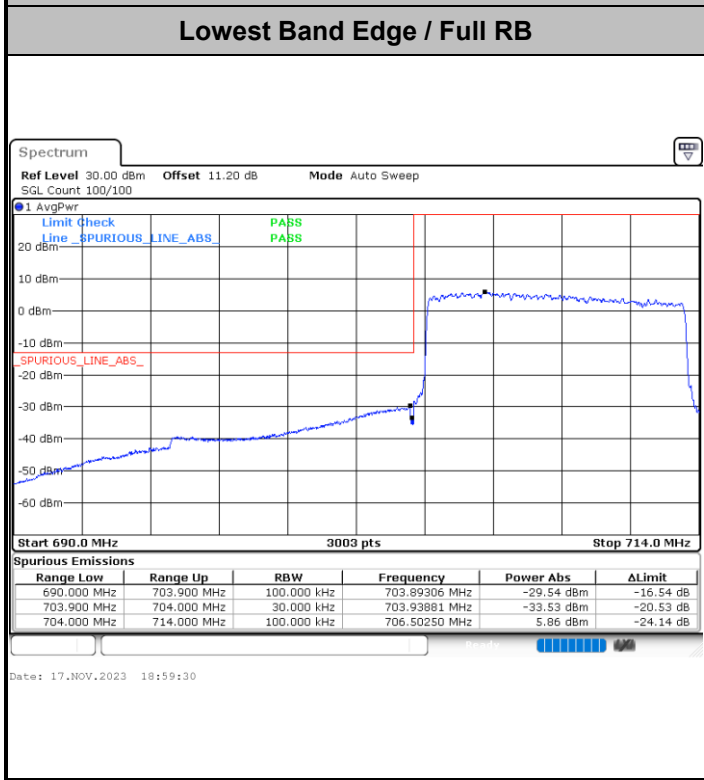


Date: 17.NOV.2023 18:47:14

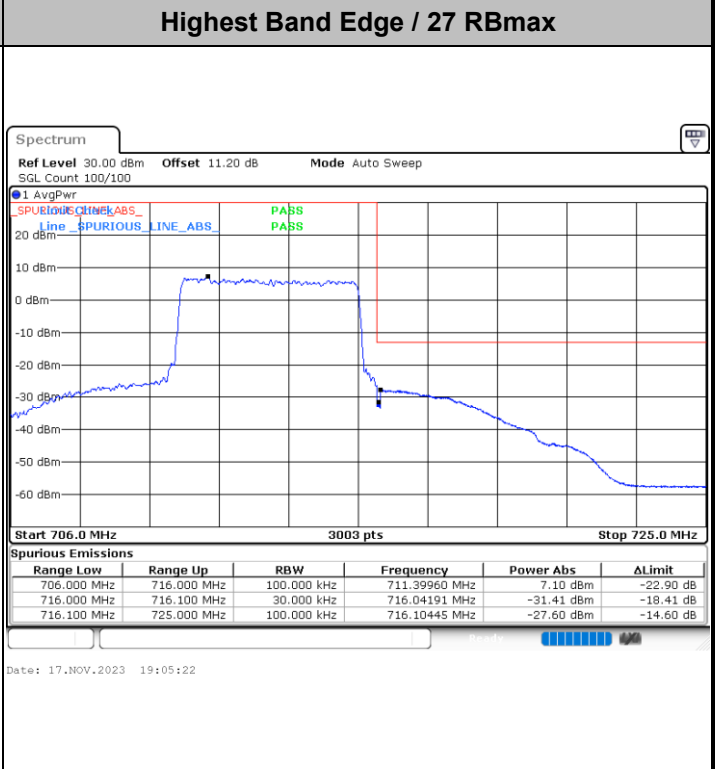
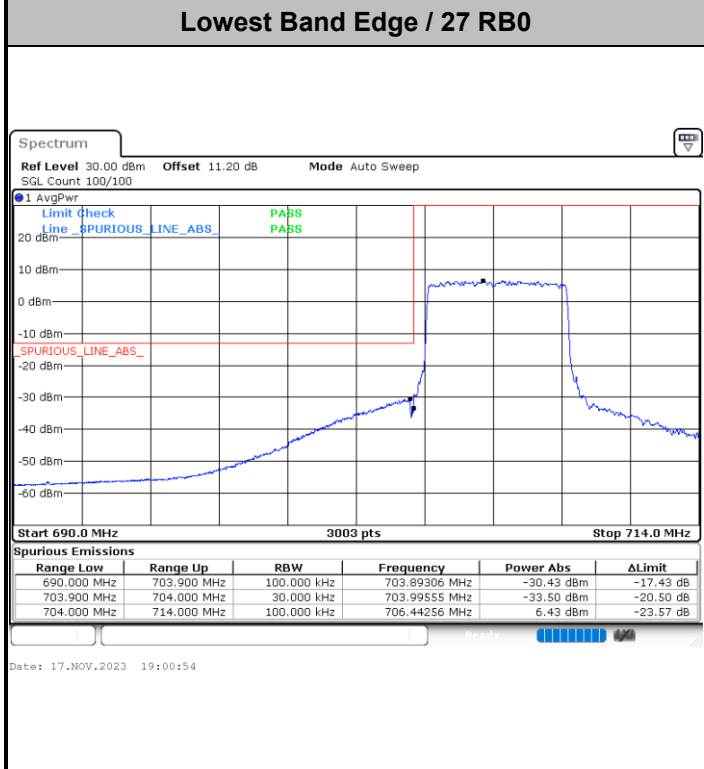
Date: 17.NOV.2023 18:56:52



LTE Band 17 / 10MHz / QPSK

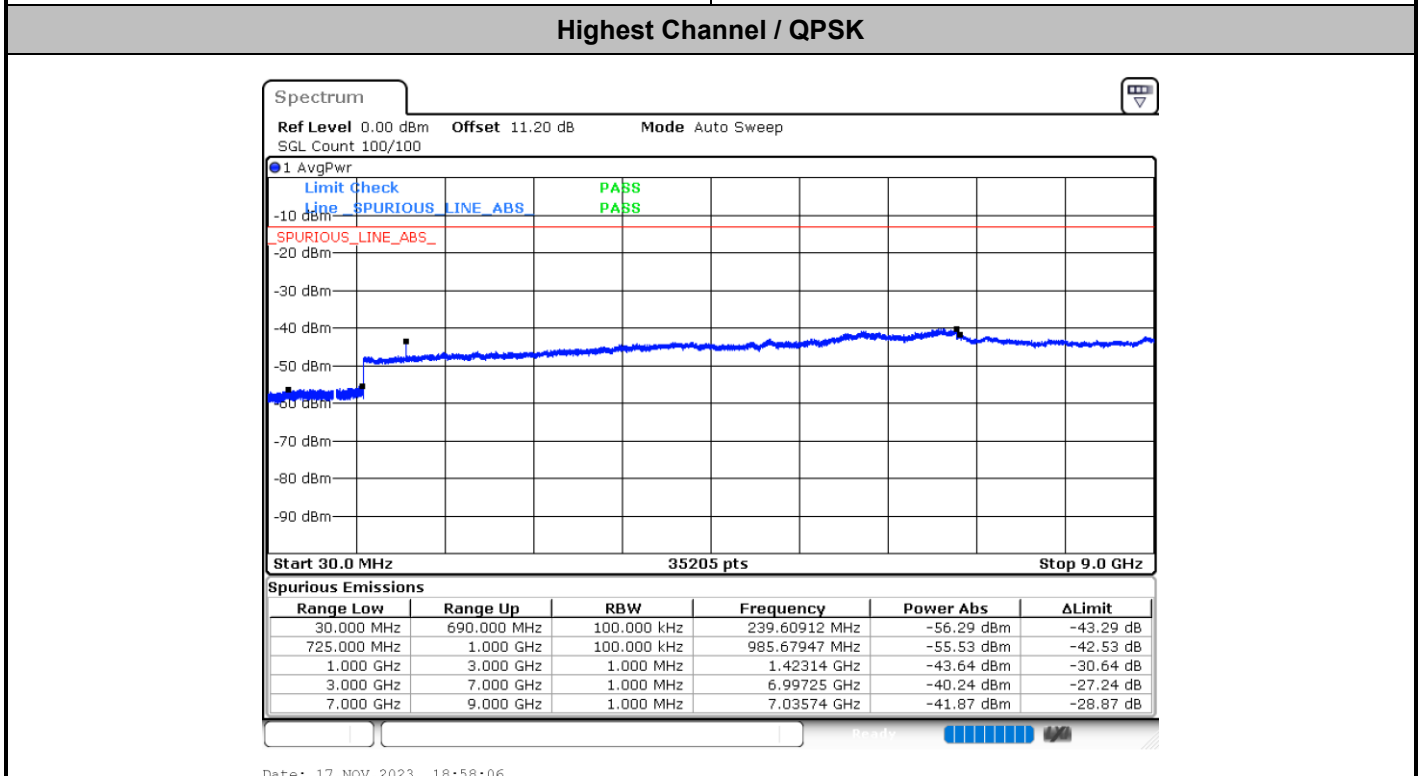
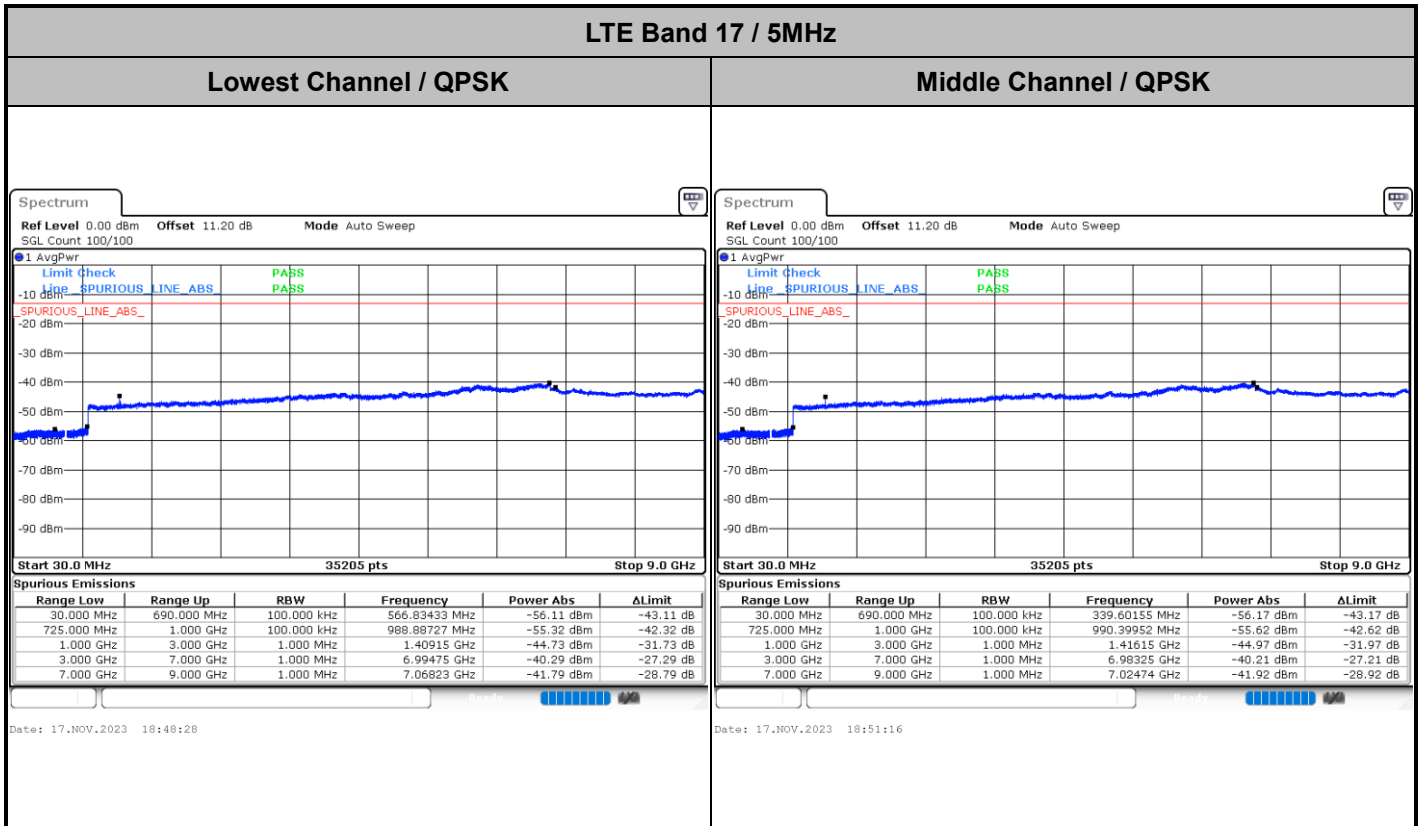


LTE Band 17 / 10MHz / 16QAM





Conducted Spurious Emission

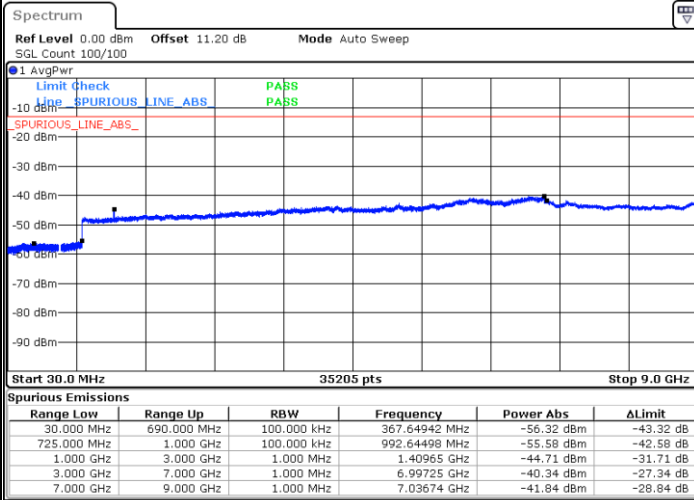




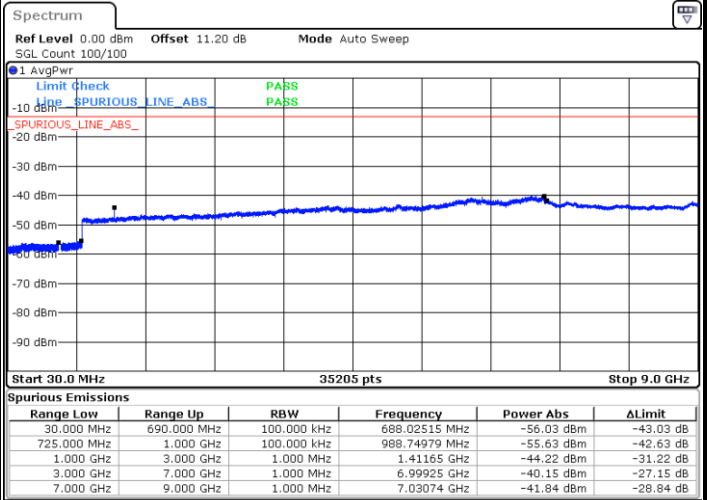
LTE Band 17 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

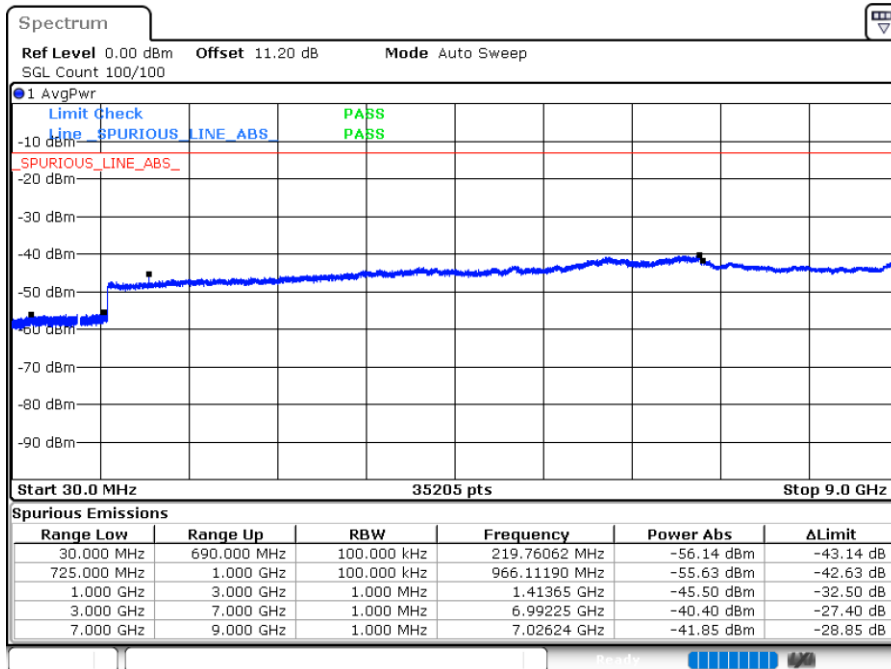


Date: 17.NOV.2023 19:07:27



Date: 17.NOV.2023 19:08:40

Highest Channel / QPSK



Date: 17.NOV.2023 19:09:52



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0142	PASS
30	Normal Voltage	0.0154	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0045	
20	Maximum Voltage	0.0058	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0086	

Note:

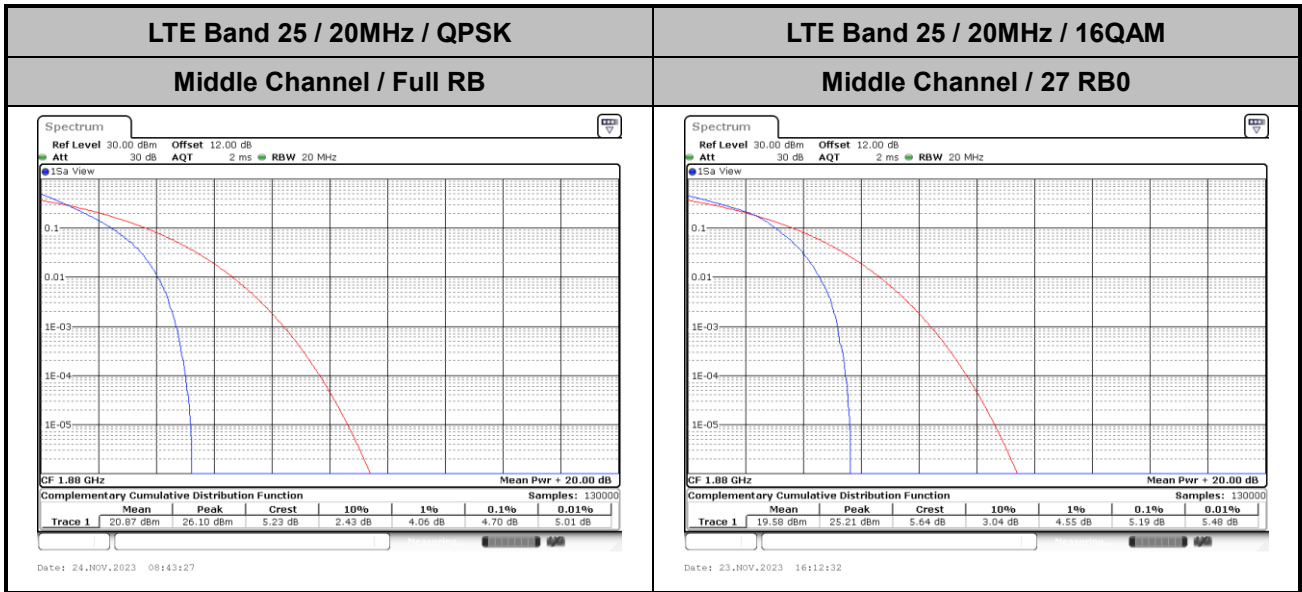
- 1. Normal Voltage = 3.88 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

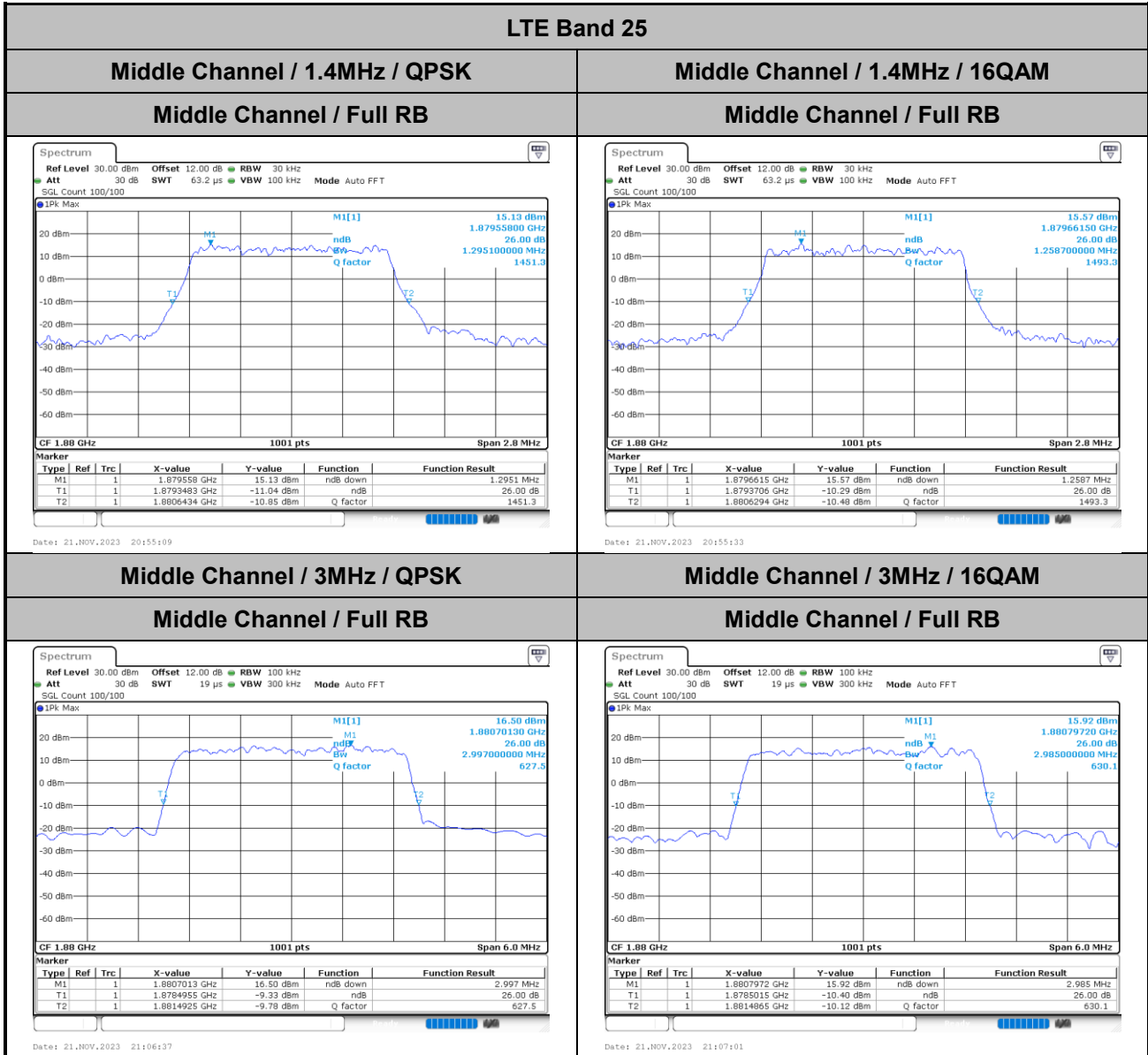
Mode	LTE Band 25 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	4.70	5.19	PASS





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	1.30	1.26	3.00	2.99	4.98	4.91	9.77	5.50	14.48	5.57	19.02	5.87





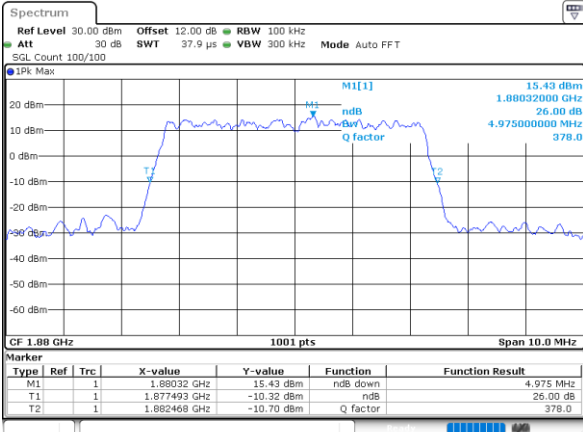
LTE Band 25

Middle Channel / 5MHz / QPSK

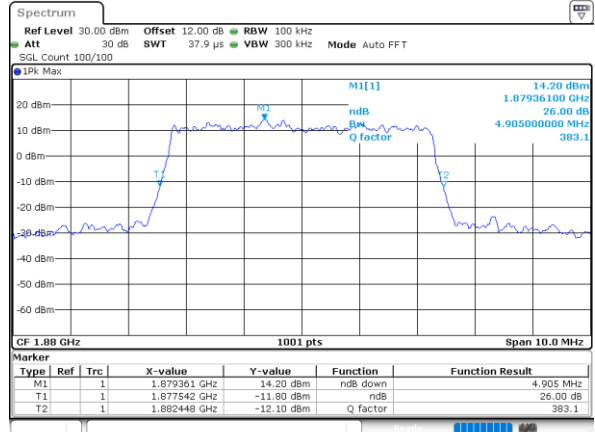
Middle Channel / 5MHz / 16QAM

Middle Channel / Full RB

Middle Channel / Full RB



Date: 21.NOV.2023 21:13:10



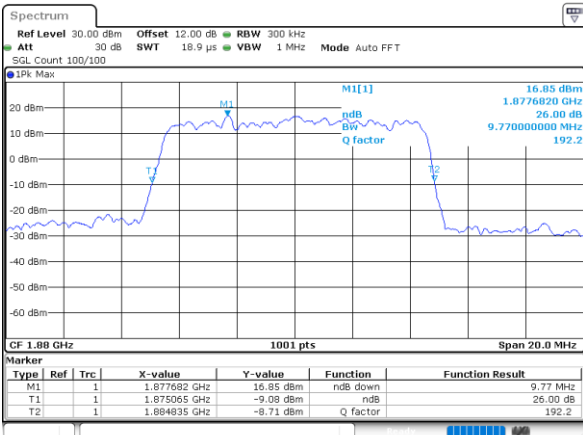
Date: 21.NOV.2023 21:13:33

Middle Channel / 10MHz / QPSK

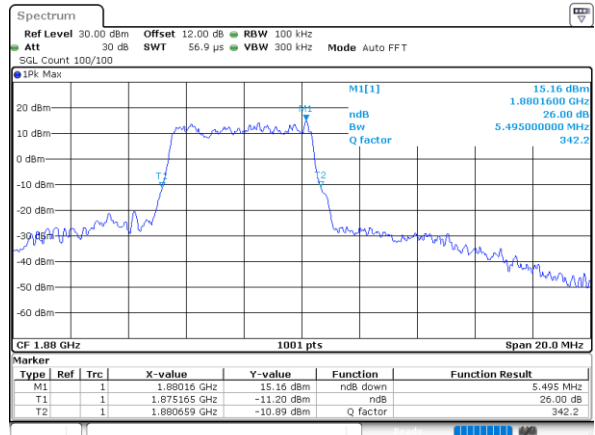
Middle Channel / 10MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 21:19:43



Date: 21.NOV.2023 21:20:07



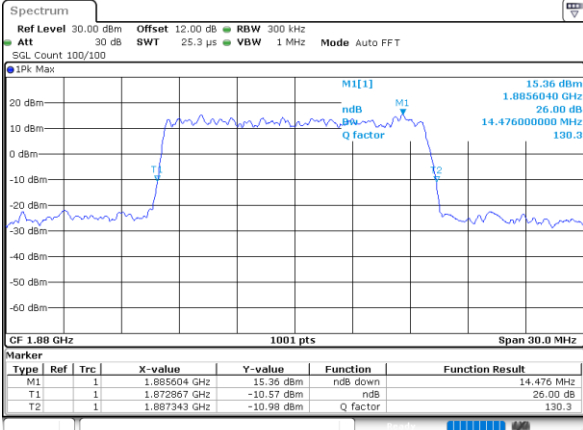
LTE Band 25

Middle Channel / 15MHz / QPSK

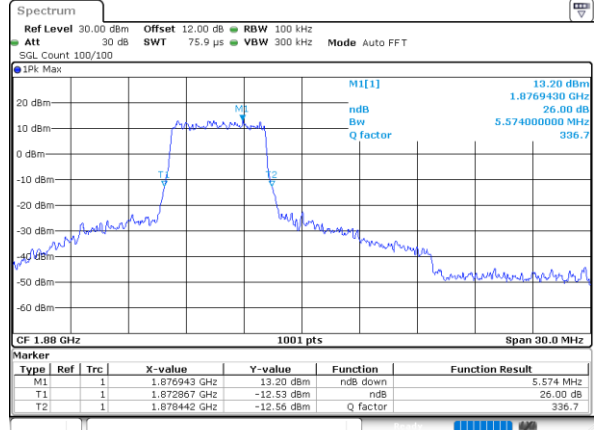
Middle Channel / 15MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 21:26:17



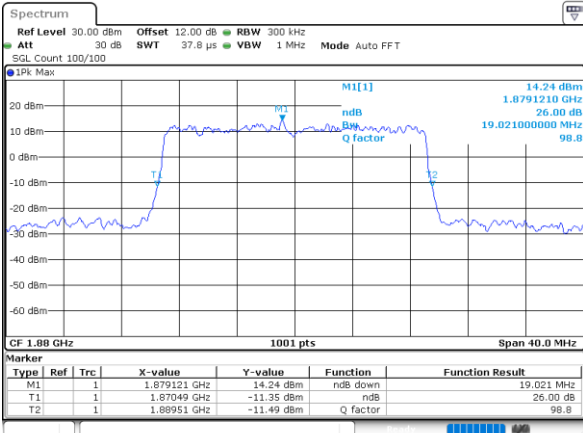
Date: 21.NOV.2023 21:26:41

Middle Channel / 20MHz / QPSK

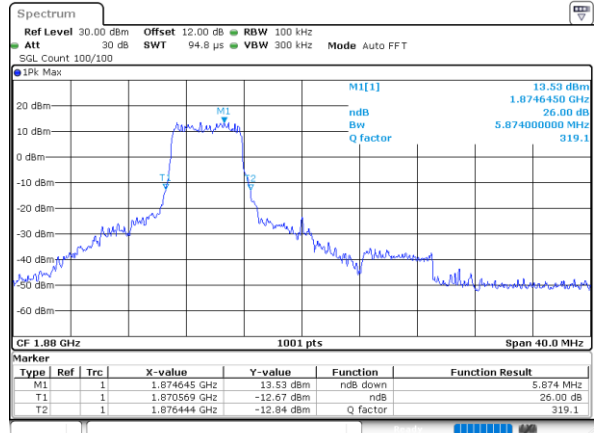
Middle Channel / 20MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 21:32:51

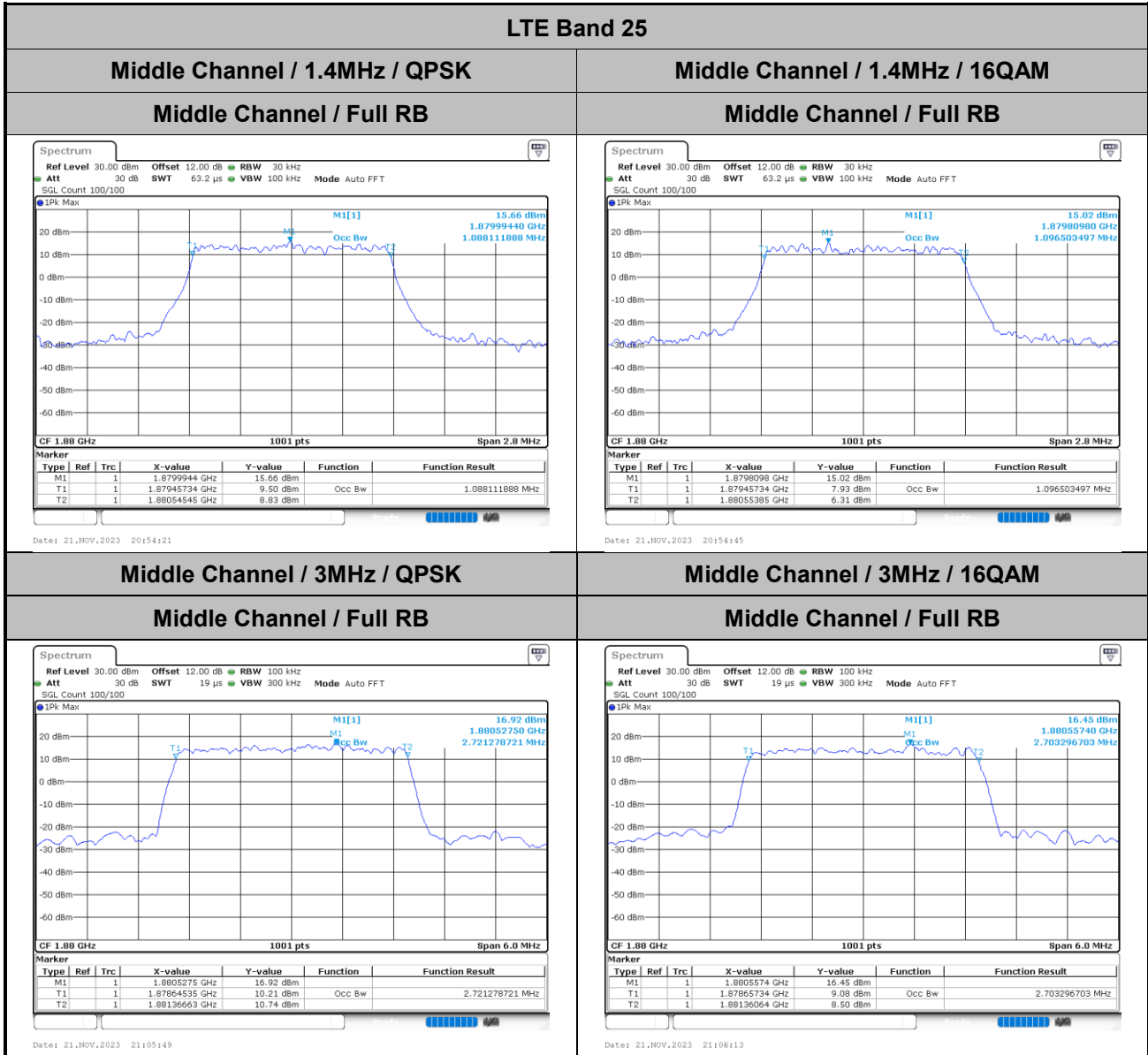


Date: 21.NOV.2023 21:33:16



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	1.10	2.72	2.70	4.48	4.50	9.03	4.90	13.46	4.89	17.90	4.84





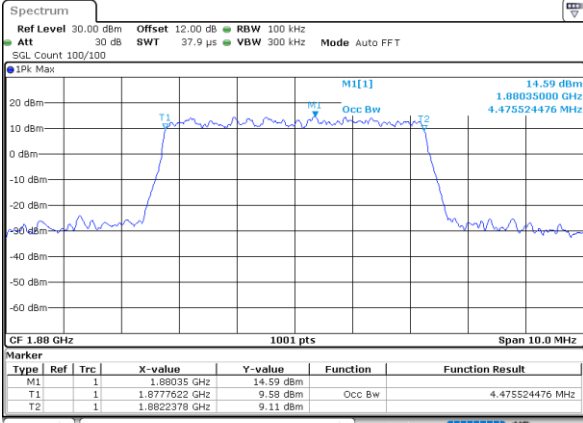
LTE Band 25

Middle Channel / 5MHz / QPSK

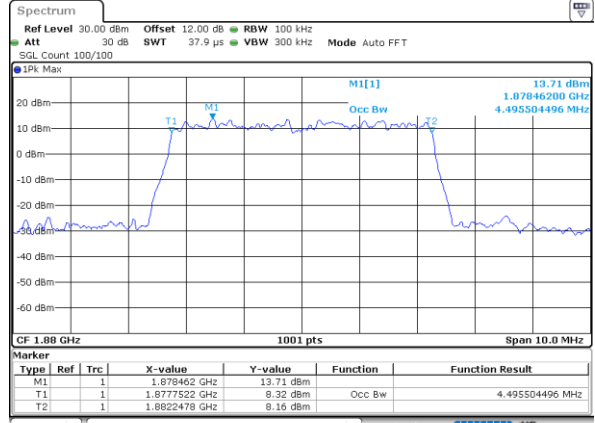
Middle Channel / 5MHz / 16QAM

Middle Channel / Full RB

Middle Channel / Full RB



Date: 21.NOV.2023 21:12:22



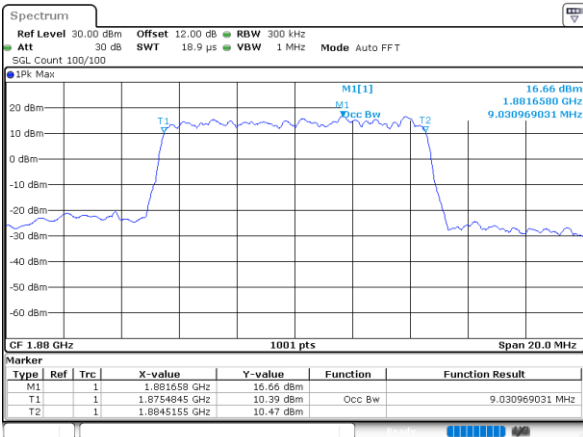
Date: 21.NOV.2023 21:12:46

Middle Channel / 10MHz / QPSK

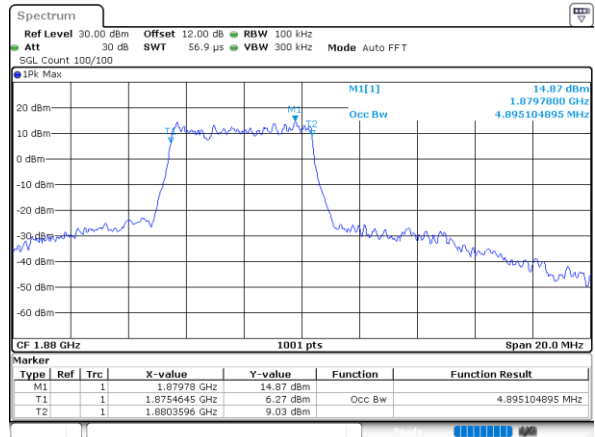
Middle Channel / 10MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 21:18:55



Date: 21.NOV.2023 21:19:19



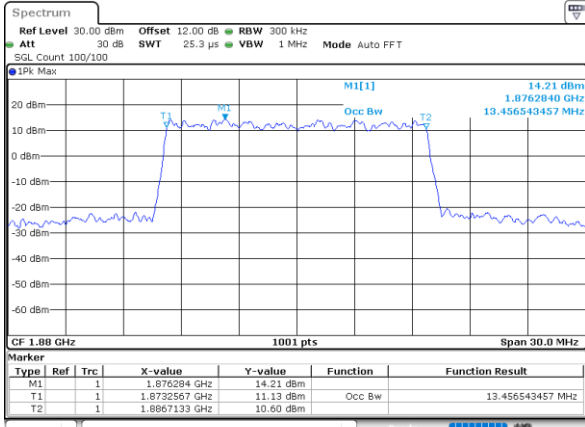
LTE Band 25

Middle Channel / 15MHz / QPSK

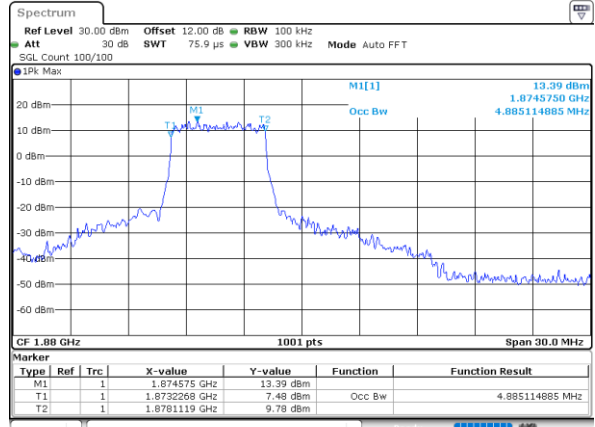
Middle Channel / 15MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 21:25:29



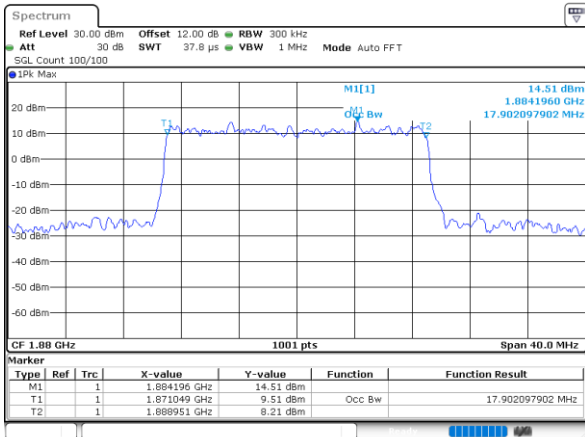
Date: 21.NOV.2023 21:25:53

Middle Channel / 20MHz / QPSK

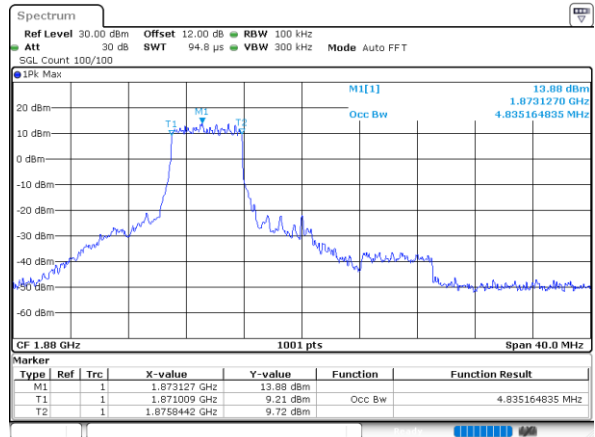
Middle Channel / 20MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 21:32:03



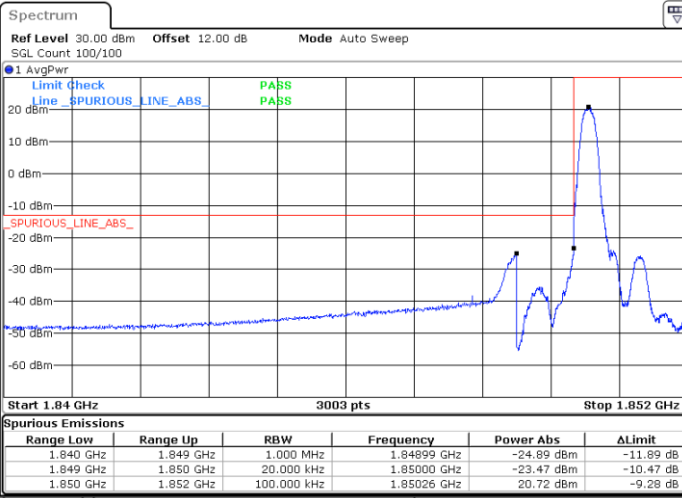
Date: 21.NOV.2023 21:32:27



Conducted Band Edge

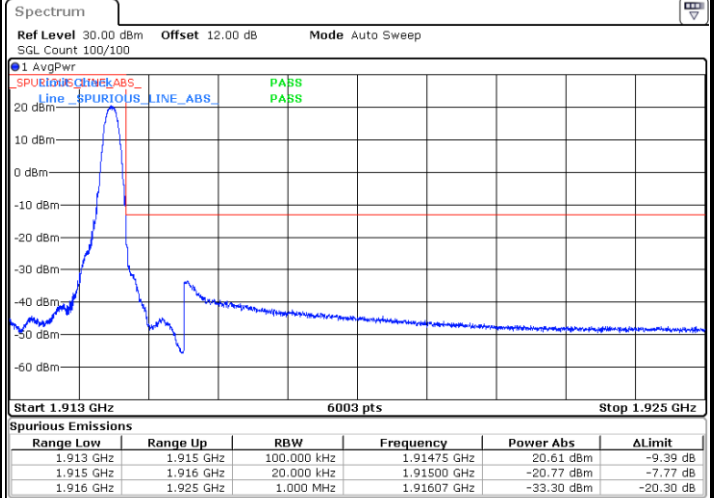
LTE Band 25 / 1.4MHz / QPSK

Lowest Band Edge / 1RB0



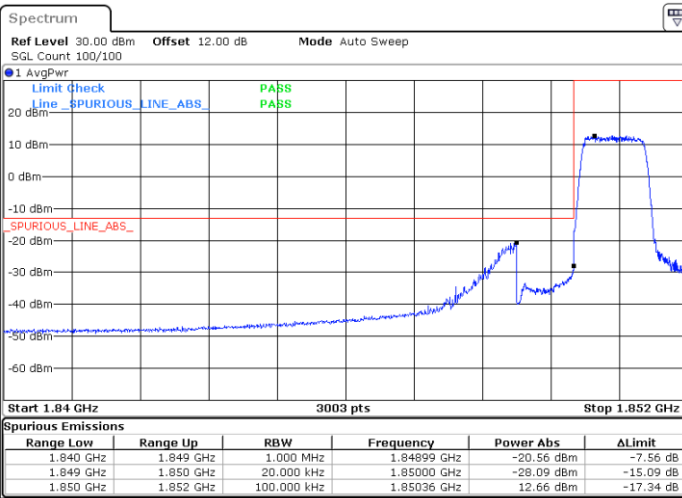
Date: 21.NOV.2023 20:49:01

Highest Band Edge / 1RBmax



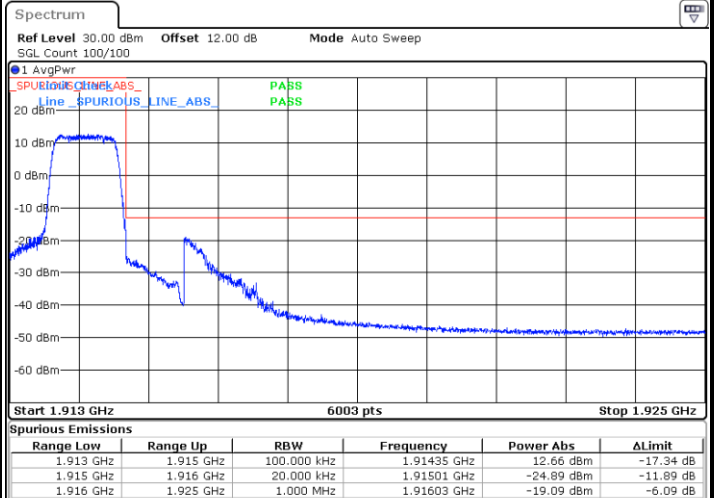
Date: 21.NOV.2023 21:01:42

Lowest Band Edge / Full RB



Date: 21.NOV.2023 20:51:29

Highest Band Edge / Full RB



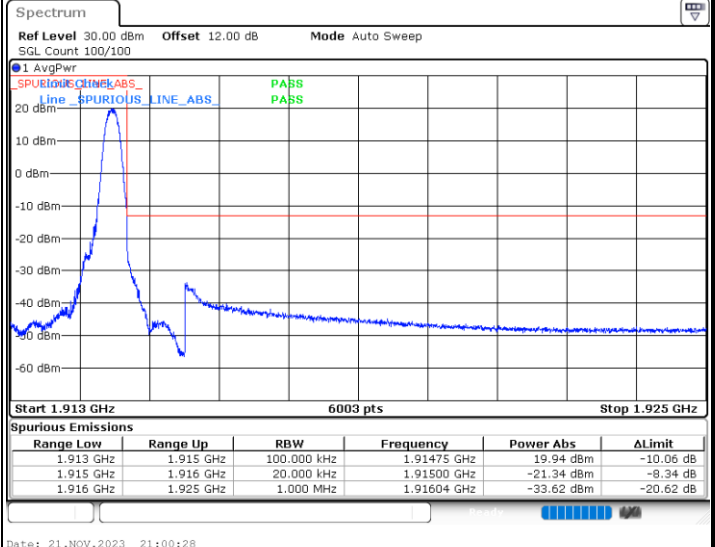
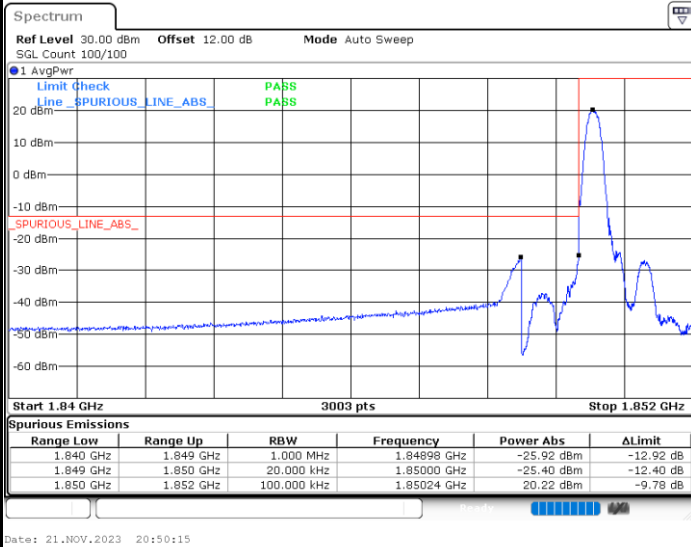
Date: 21.NOV.2023 20:57:59



LTE Band 25 / 1.4MHz / 16QAM

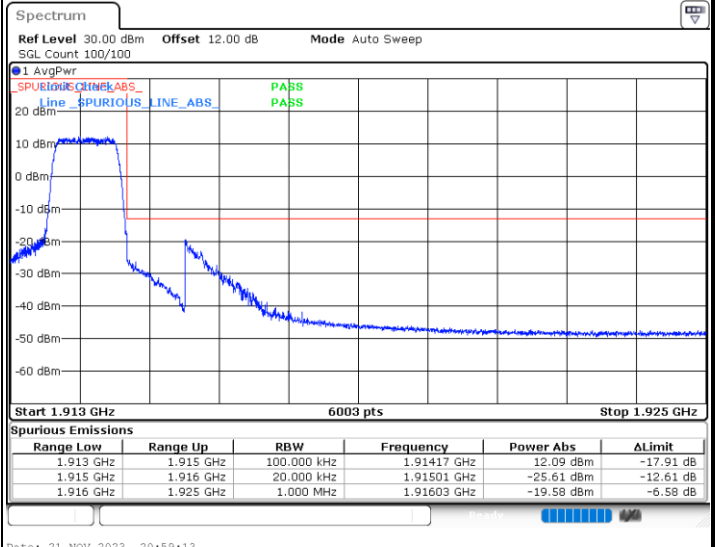
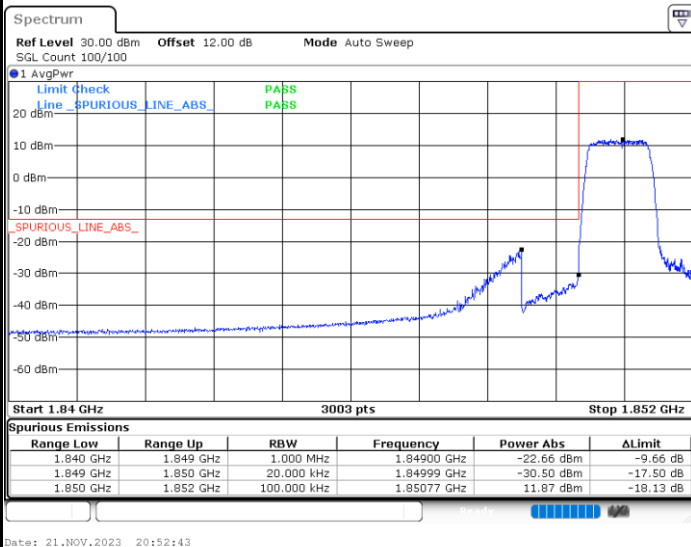
Lowest Band Edge / 1 RB0

Highest Band Edge / 1 RBmax



Lowest Band Edge / Full RB

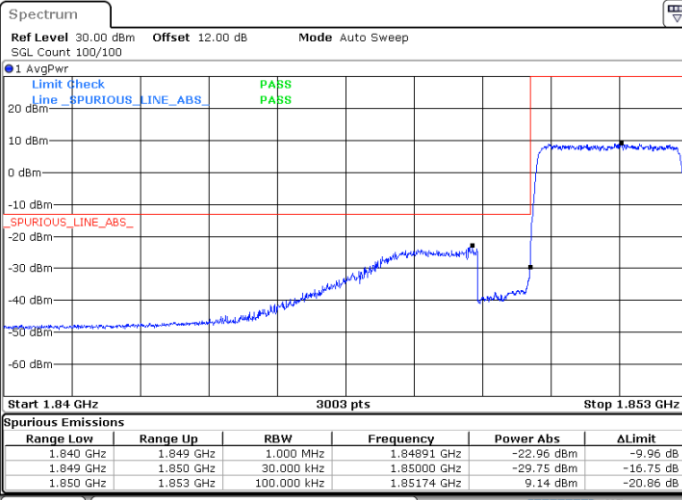
Highest Band Edge / Full RB





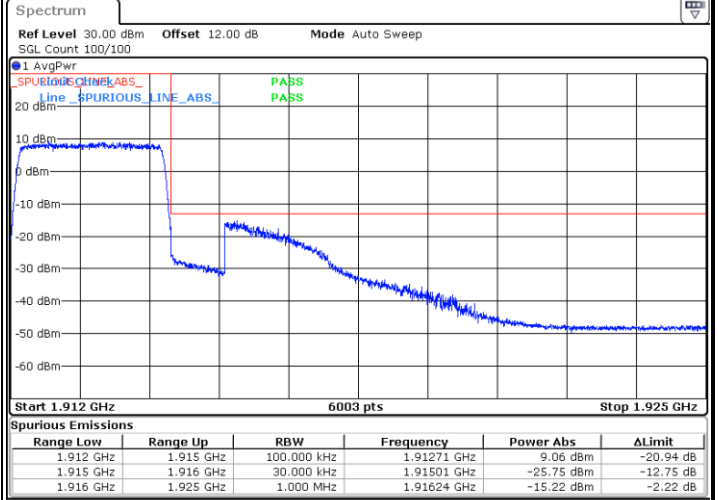
LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 21:04:09

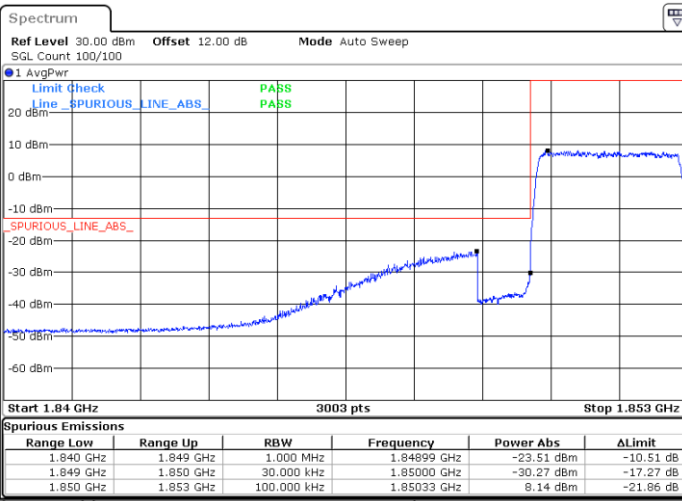
Highest Band Edge / Full RB



Date: 21.NOV.2023 21:08:14

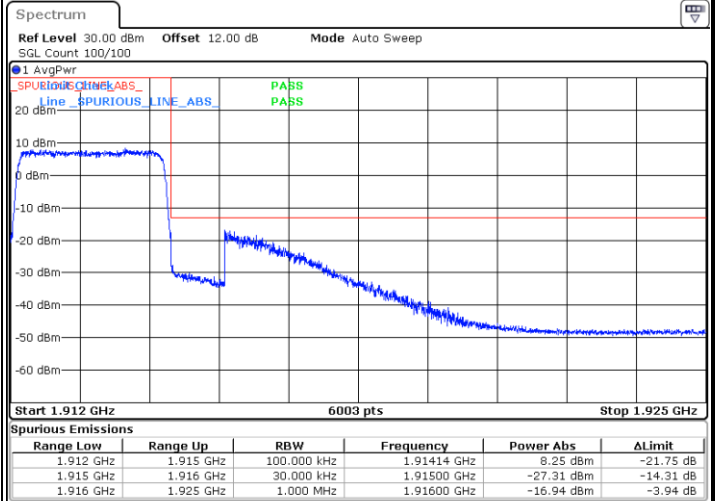
LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.NOV.2023 21:05:24

Highest Band Edge / Full RB

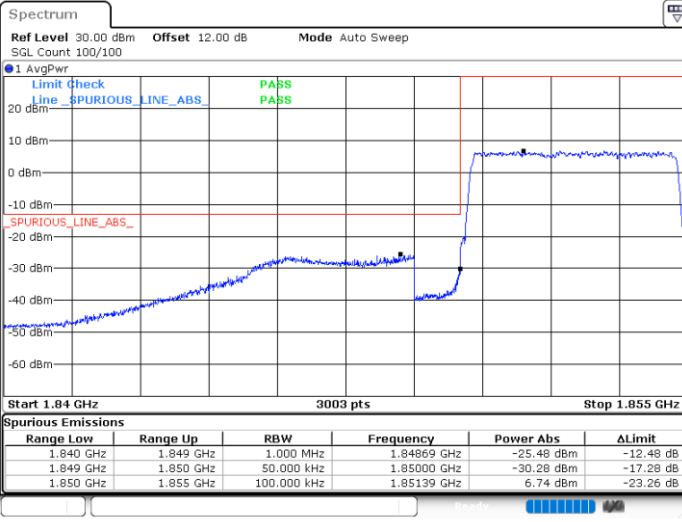


Date: 21.NOV.2023 21:09:28



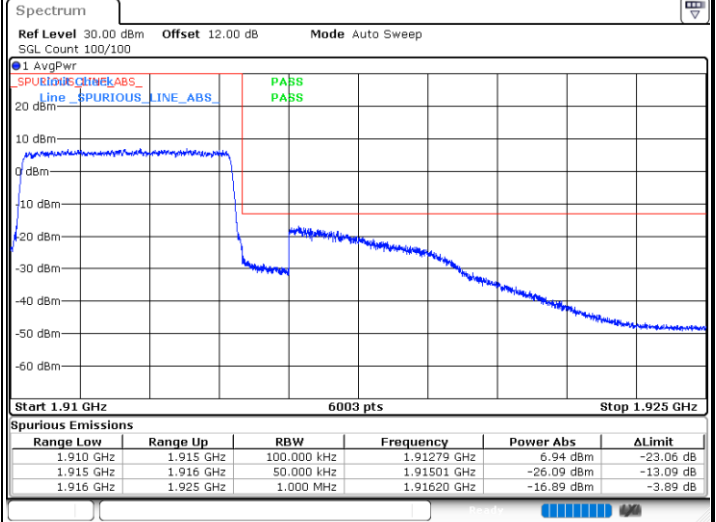
LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 21:10:43

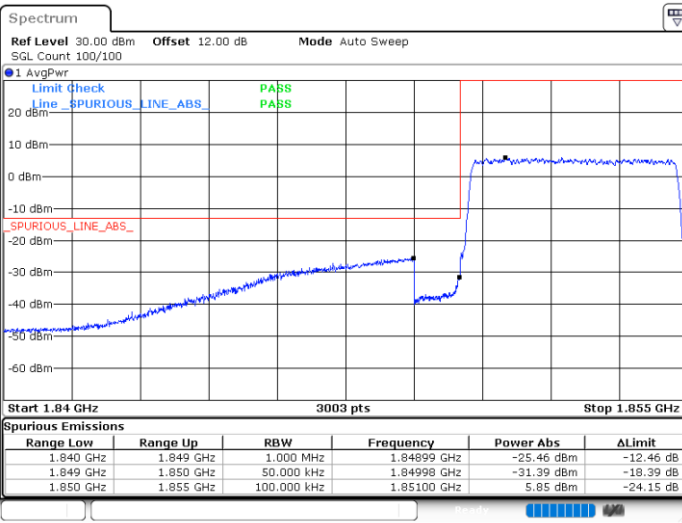
Highest Band Edge / Full RB



Date: 21.NOV.2023 21:14:46

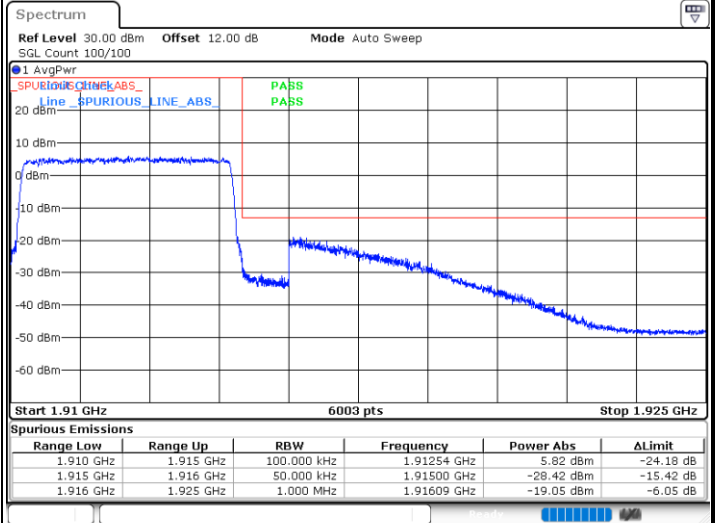
LTE Band 25 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.NOV.2023 21:11:57

Highest Band Edge / Full RB

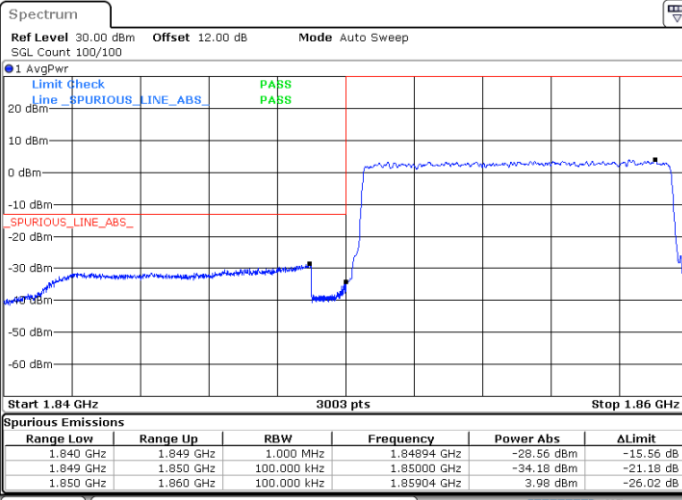


Date: 21.NOV.2023 21:16:00



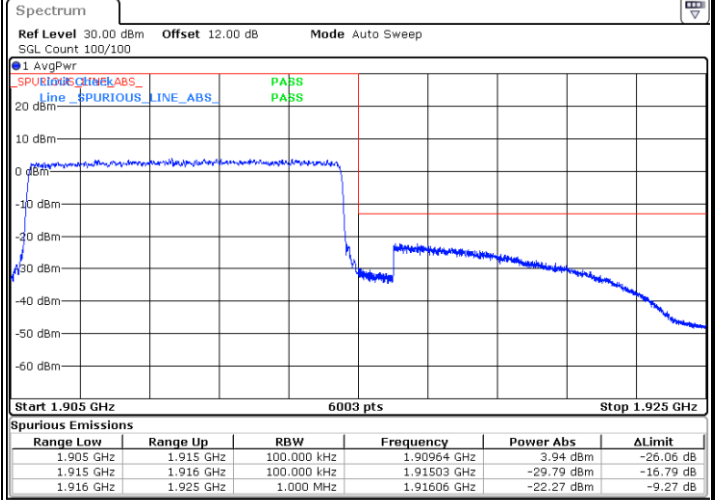
LTE Band 25 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 21:17:15

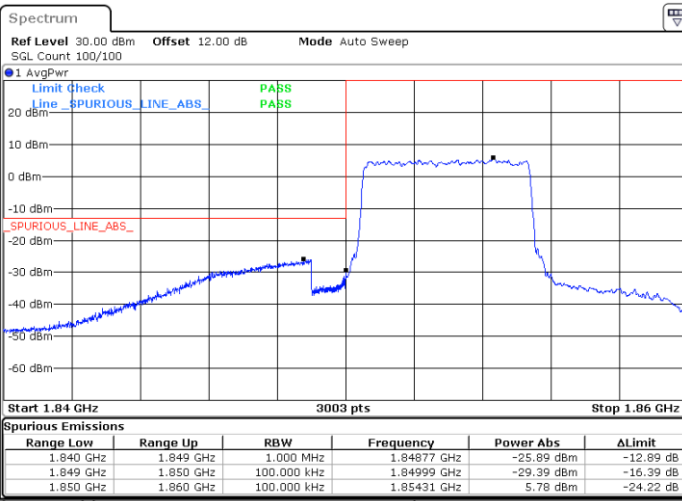
Highest Band Edge / Full RB



Date: 21.NOV.2023 21:21:20

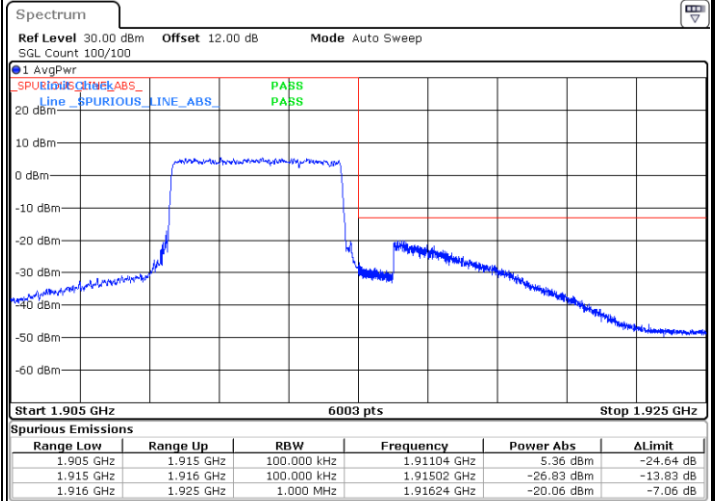
LTE Band 25 / 10MHz / 16QAM

Lowest Band Edge / 27 RB0



Date: 21.NOV.2023 21:18:29

Highest Band Edge / 27 RBmax

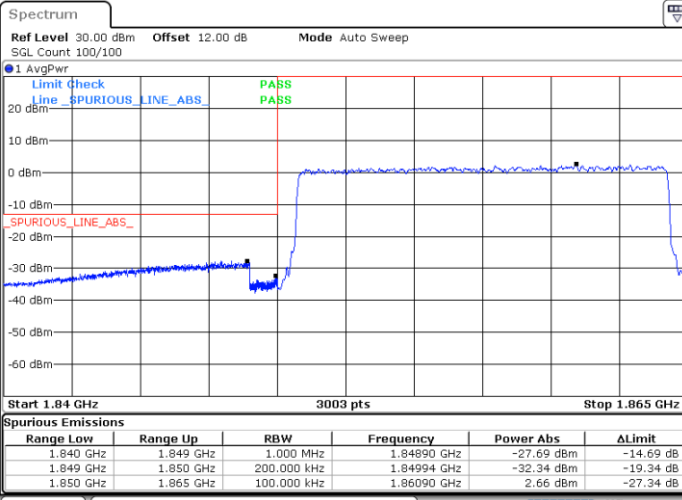


Date: 21.NOV.2023 21:22:35



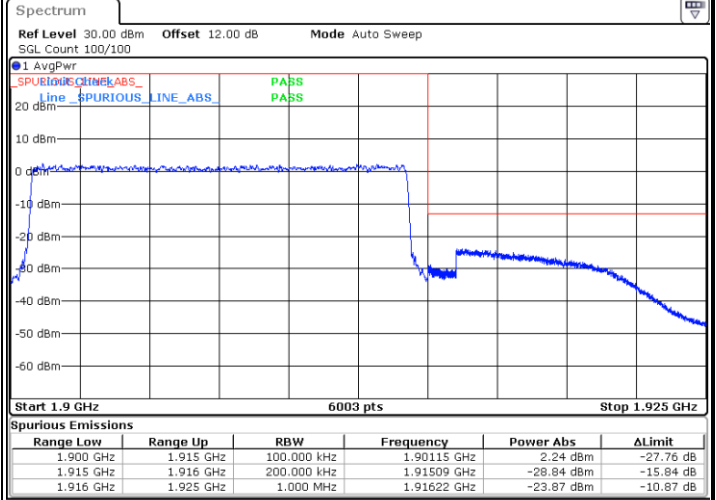
LTE Band 25 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 21:23:49

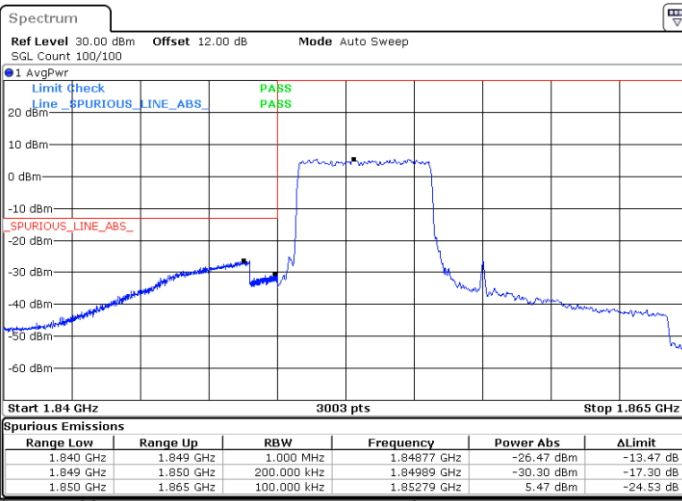
Highest Band Edge / Full RB



Date: 21.NOV.2023 21:27:55

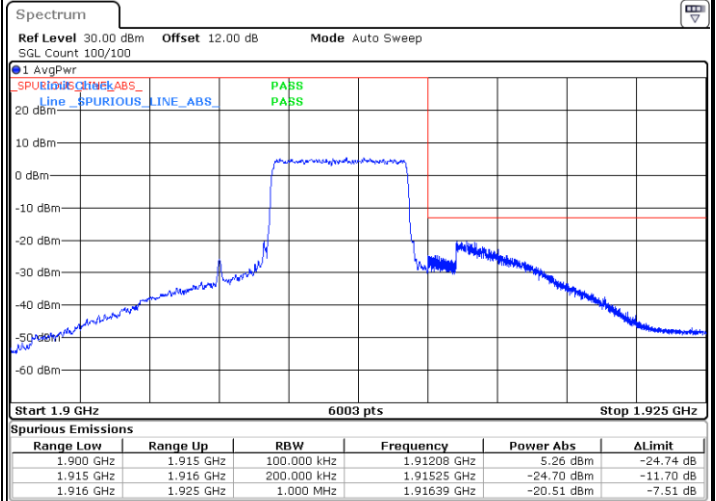
LTE Band 25 / 15MHz / 16QAM

Lowest Band Edge / 27 RB0



Date: 21.NOV.2023 21:25:04

Highest Band Edge / 27 RBmax



Date: 21.NOV.2023 21:29:09