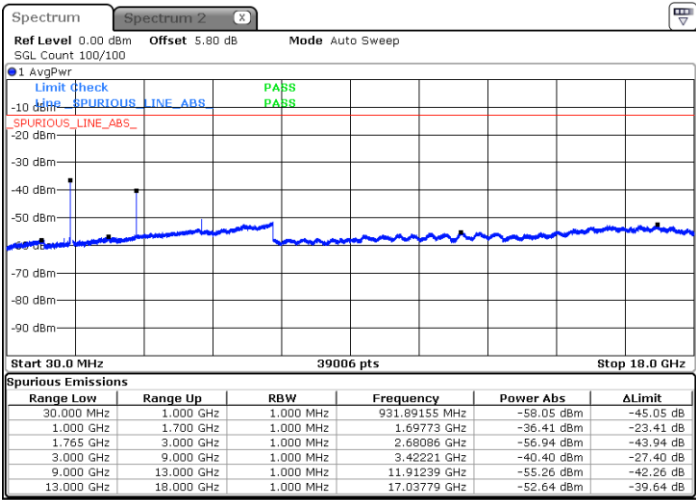




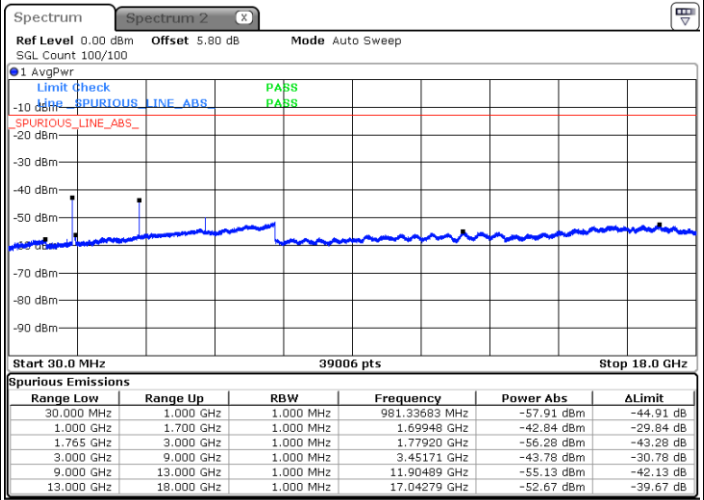
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

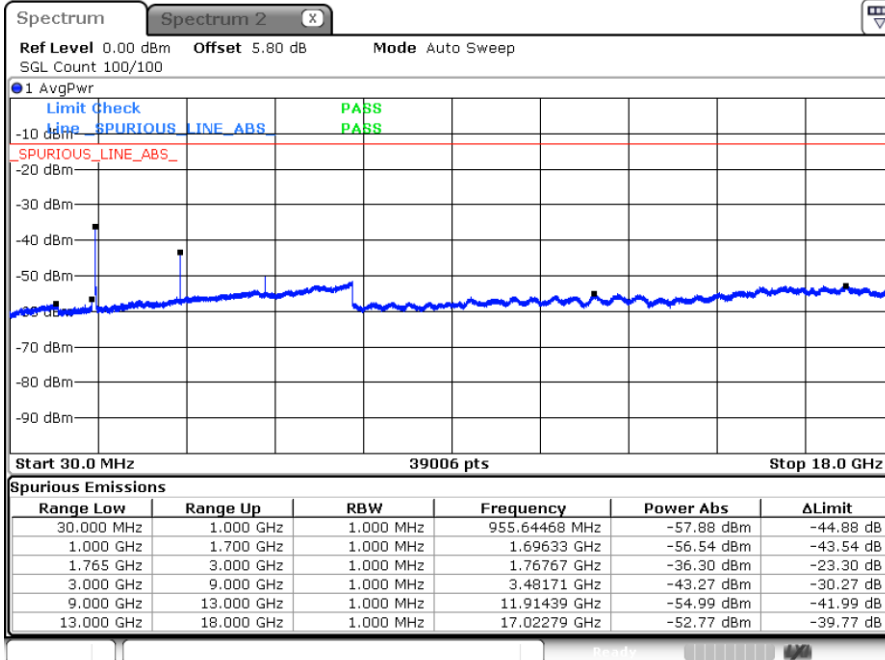


Date: 23.AUG.2023 01:45:04



Date: 23.AUG.2023 01:51:15

Highest Channel / QPSK



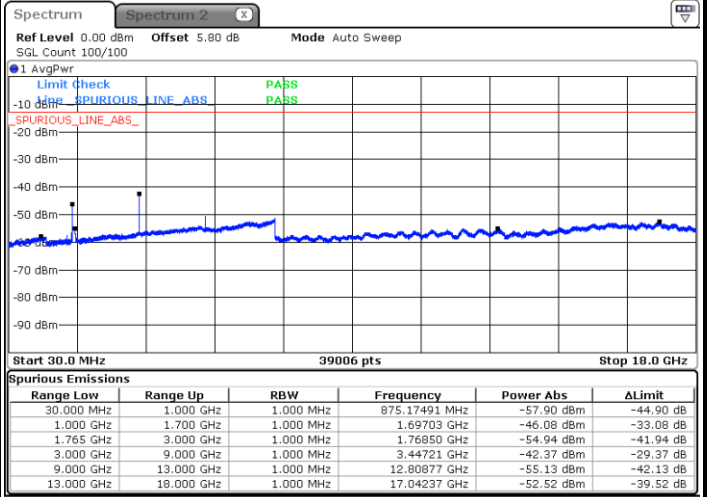
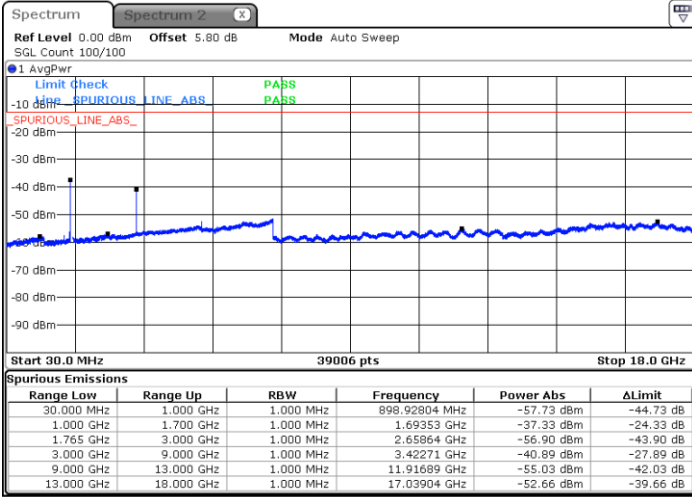
Date: 23.AUG.2023 01:52:36



LTE Band 4 / 20MHz

Lowest Channel / QPSK

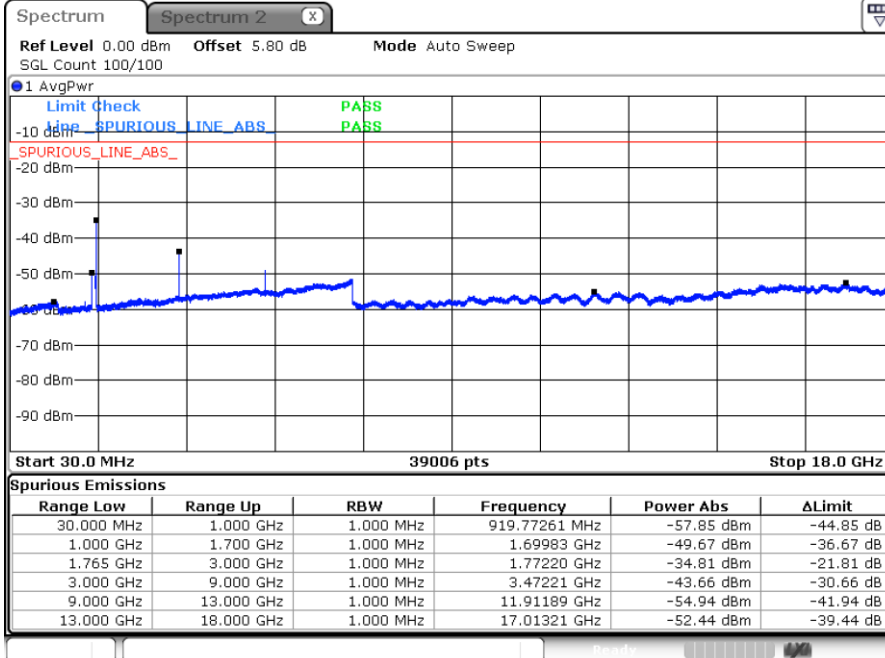
Middle Channel / QPSK



Date: 23.AUG.2023 02:00:41

Date: 23.AUG.2023 02:07:23

Highest Channel / QPSK



Date: 23.AUG.2023 02:08:44



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	0.0102	PASS
40	Normal Voltage	0.0109	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0080	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0104	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0074	
20	Normal Voltage	0.0009	
20	Minimum Voltage	0.0005	

Note:

1. Normal Voltage =3.8 V. ; Minimum Voltage =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



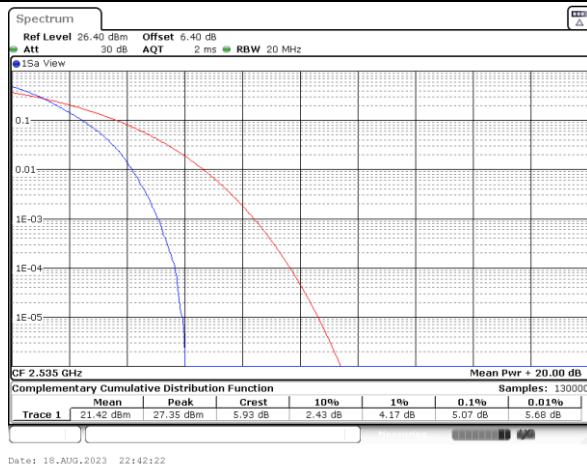
LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.07	5.80	PASS

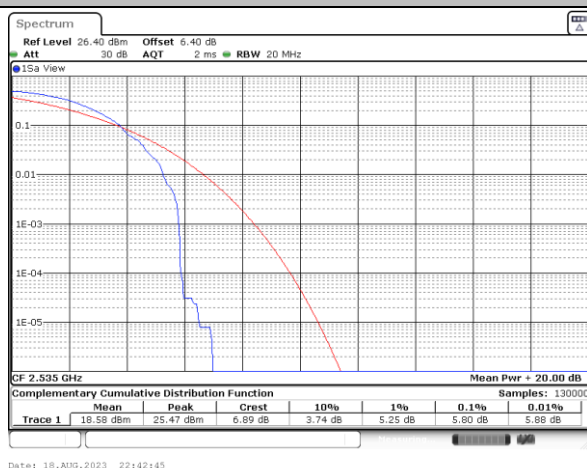
LTE Band 7 / 20MHz

Middle Channel / Full RB/ QPSK



Date: 16.AUG.2023 22:42:22

Middle Channel / Full RB/ 16QAM

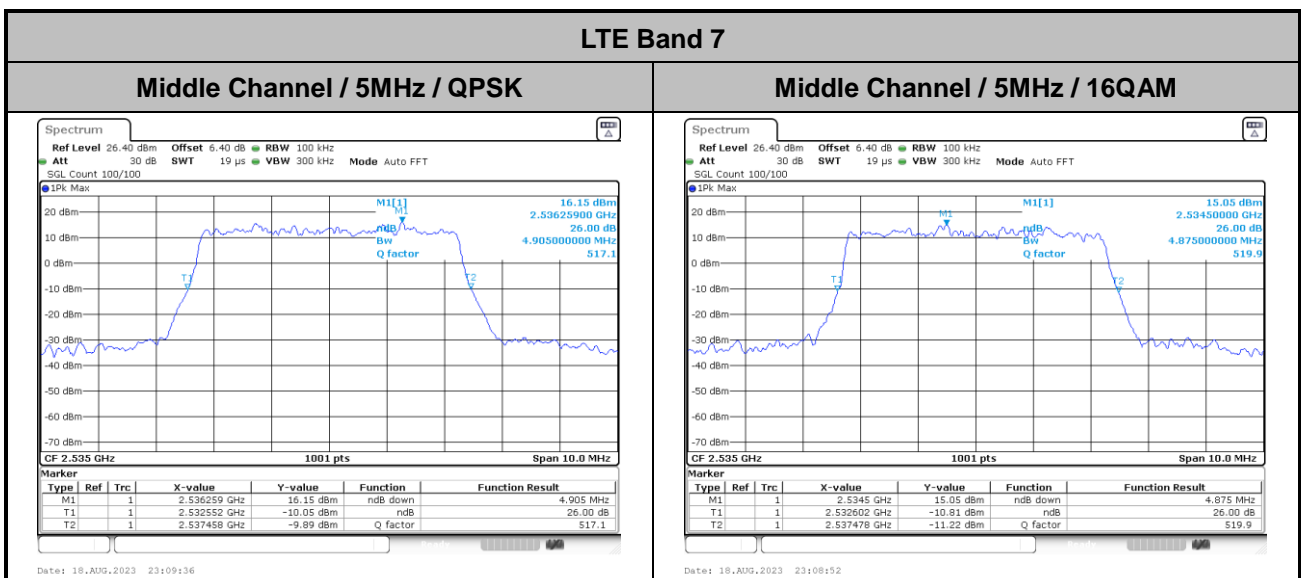


Date: 16.AUG.2023 22:42:45



26dB Bandwidth

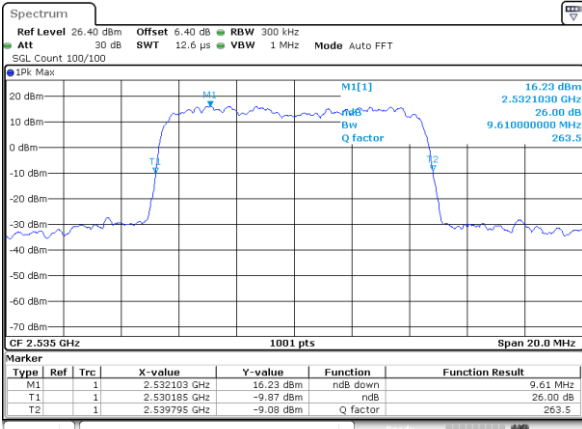
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.91	4.88
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.61	7.35
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	15.02	5.54
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.58	7.51





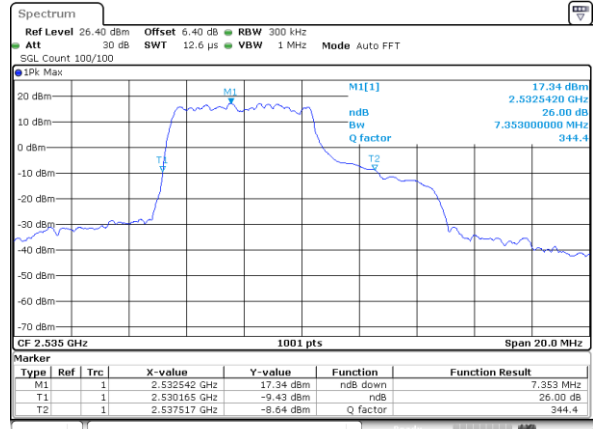
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 22_AUG.2023 14:46:04

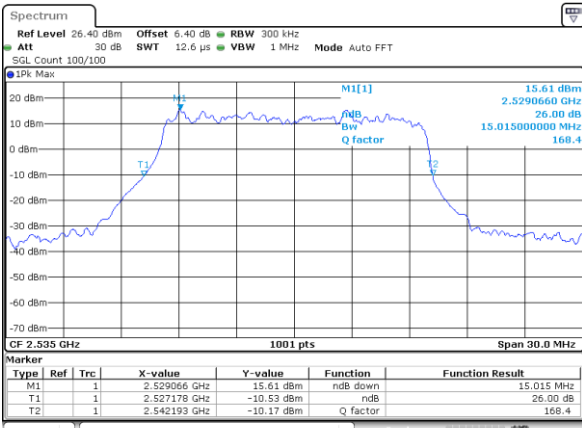
Middle Channel / 10MHz / 16QAM



Date: 22_AUG.2023 14:47:13

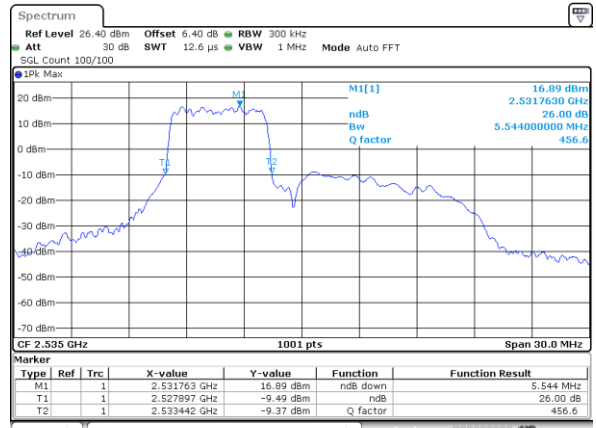
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 22_AUG.2023 14:53:13

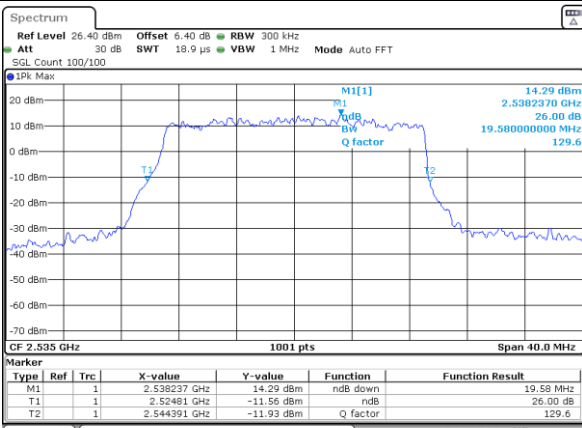
Middle Channel / 15MHz / 16QAM



Date: 22_AUG.2023 14:54:15

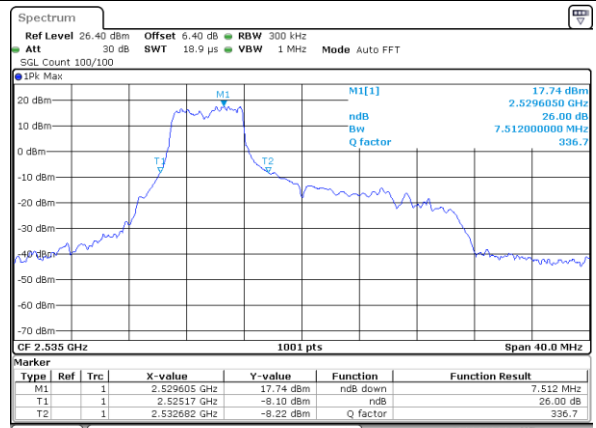
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 18_AUG.2023 23:11:49

Middle Channel / 20MHz / 16QAM

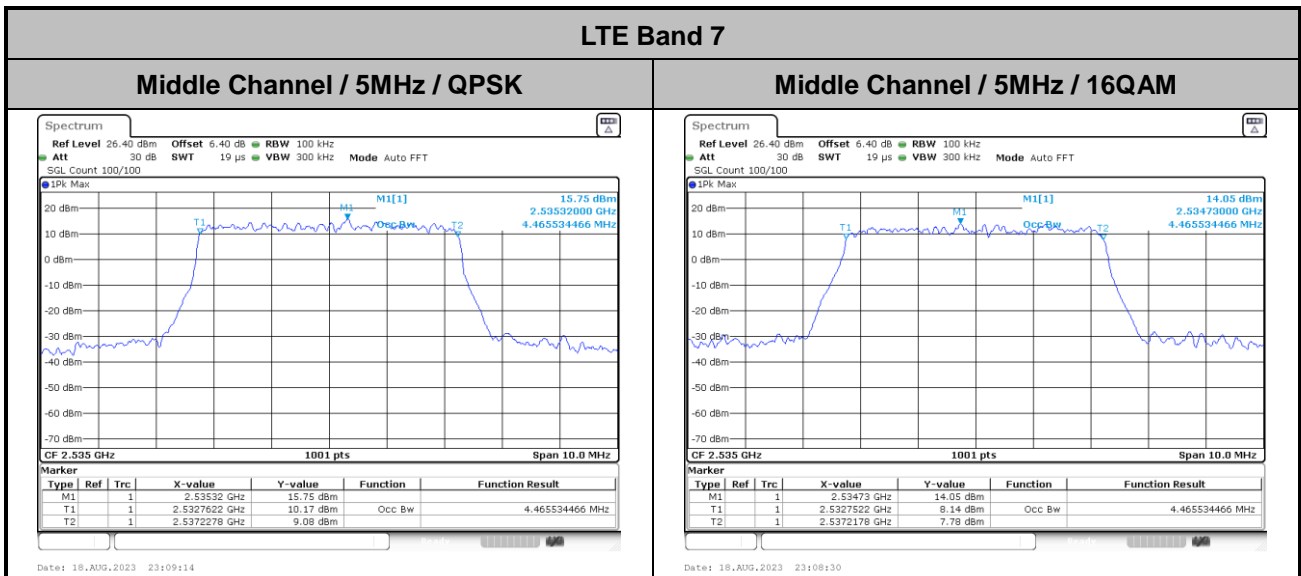


Date: 22_AUG.2023 15:07:01



Occupied Bandwidth

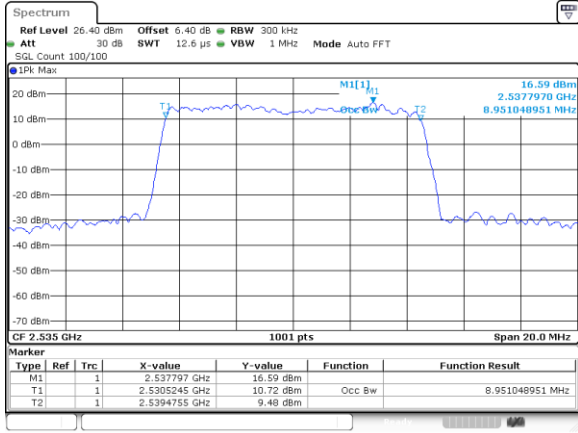
Mode	LTE Band 7 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.47	4.47
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.95	5.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	5.27
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	5.43





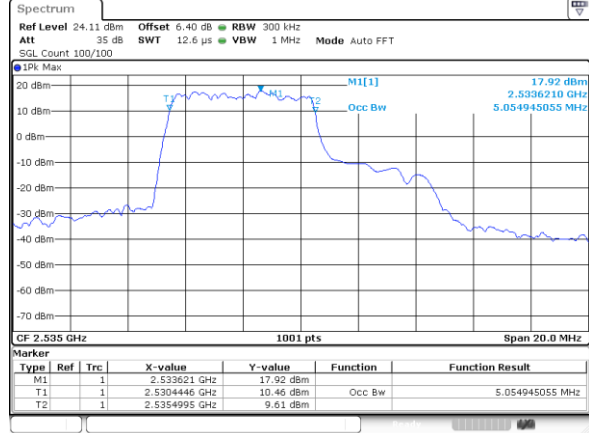
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 22_AUG_2023 14:45:33

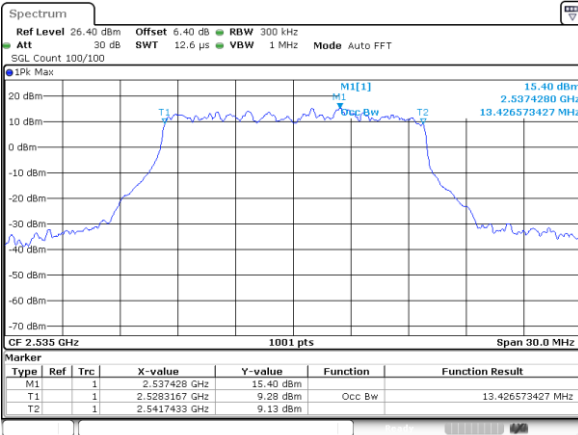
Middle Channel / 10MHz / 16QAM



Date: 22_AUG_2023 14:46:139

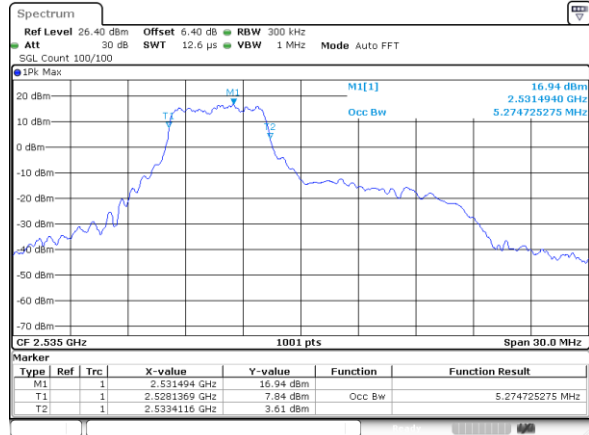
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 22_AUG_2023 14:52:49

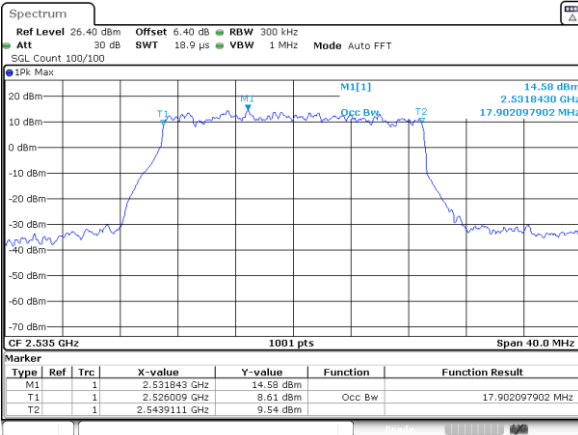
Middle Channel / 15MHz / 16QAM



Date: 22_AUG_2023 14:53:148

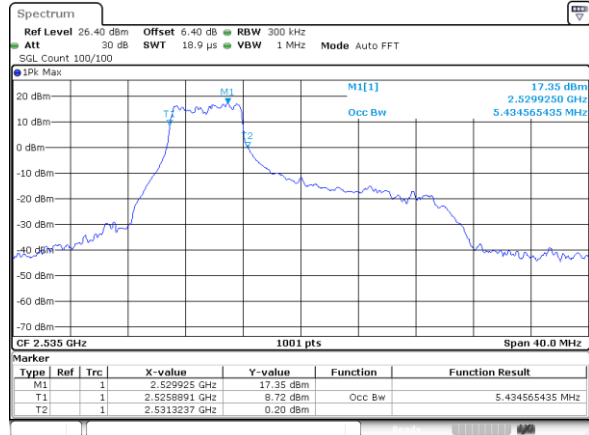
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 18_AUG_2023 23:11:28

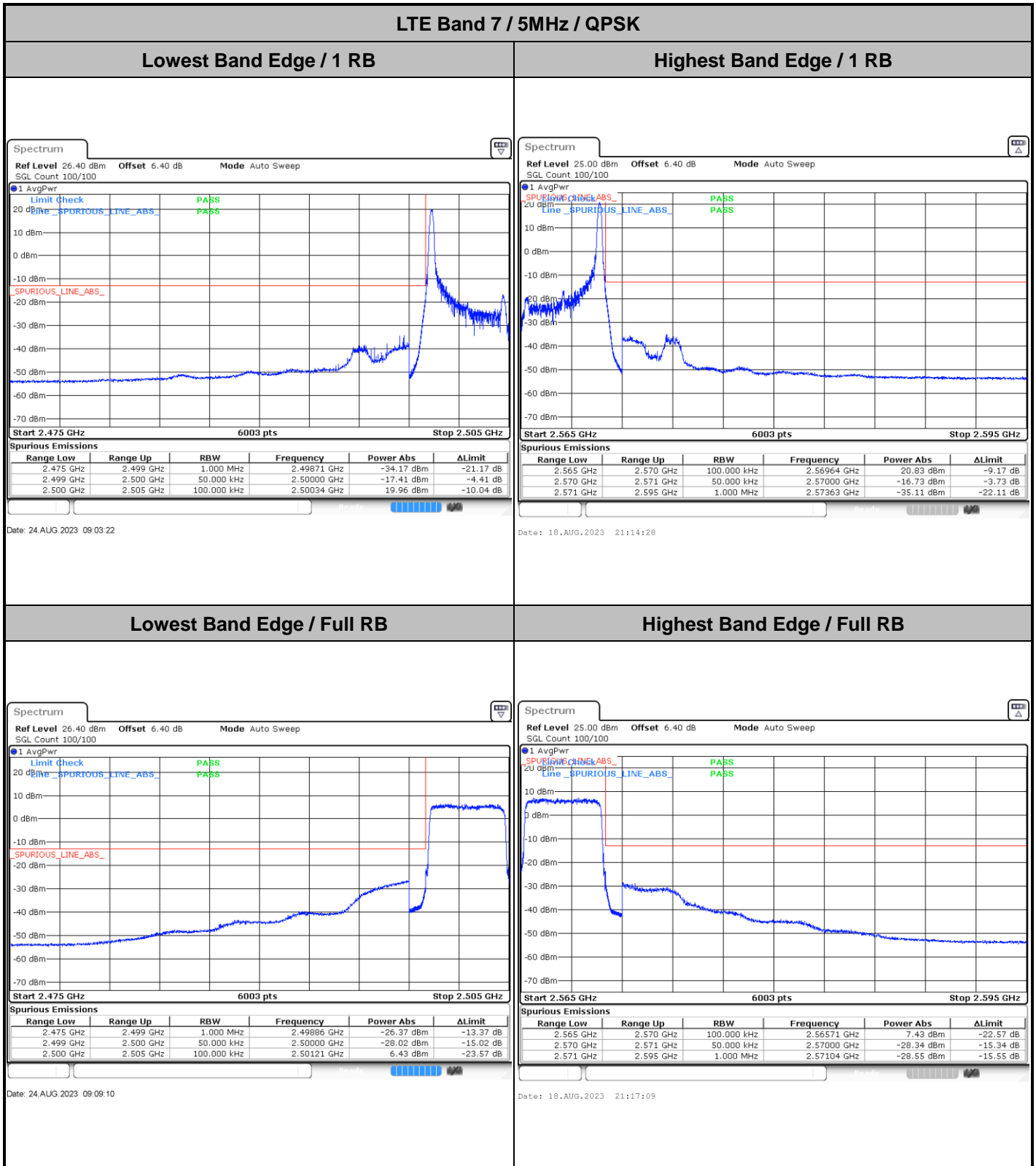
Middle Channel / 20MHz / 16QAM



Date: 22_AUG_2023 15:06:12



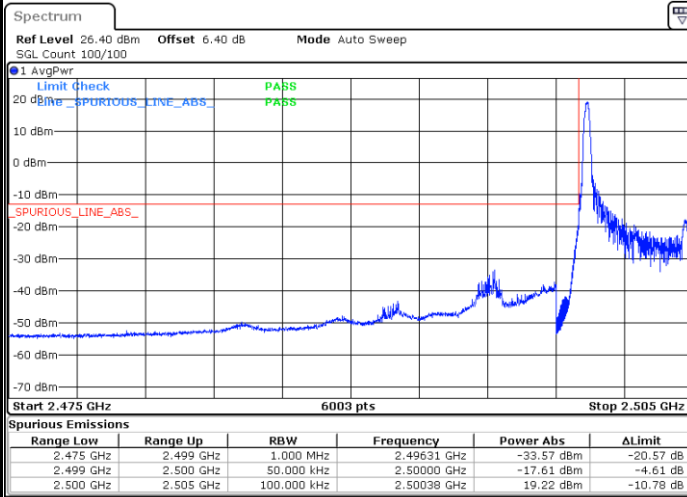
Conducted Band Edge





LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



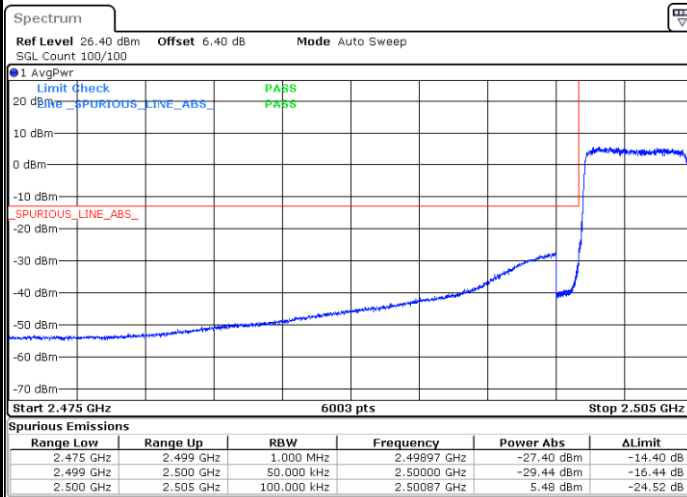
Date: 24 AUG 2023 09:06:49

Highest Band Edge / 1 RB



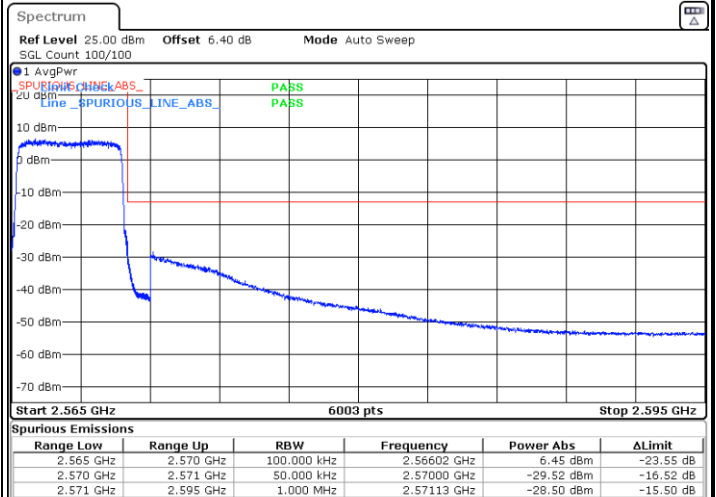
Date: 18.AUG.2023 21:15:49

Lowest Band Edge / Full RB



Date: 24 AUG 2023 09:10:13

Highest Band Edge / Full RB



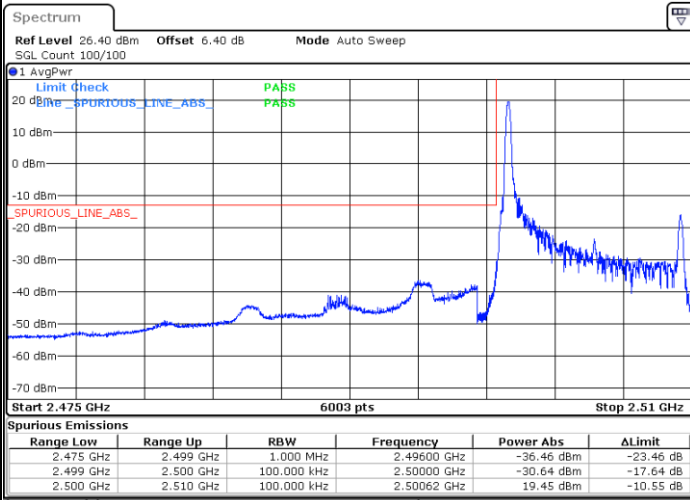
Date: 18.AUG.2023 21:18:30



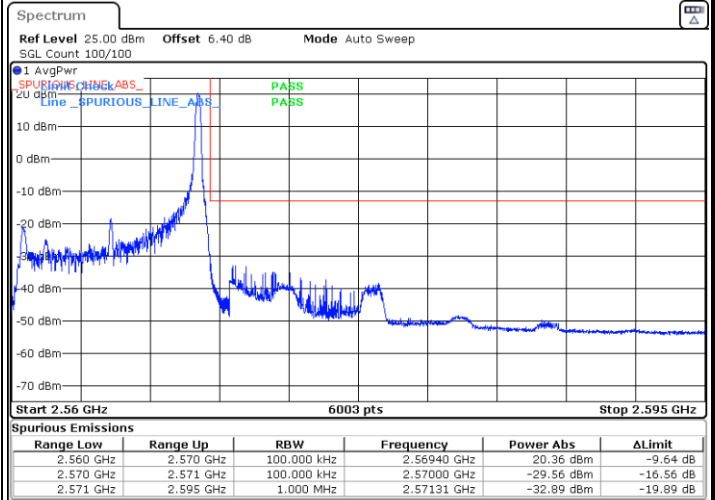
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



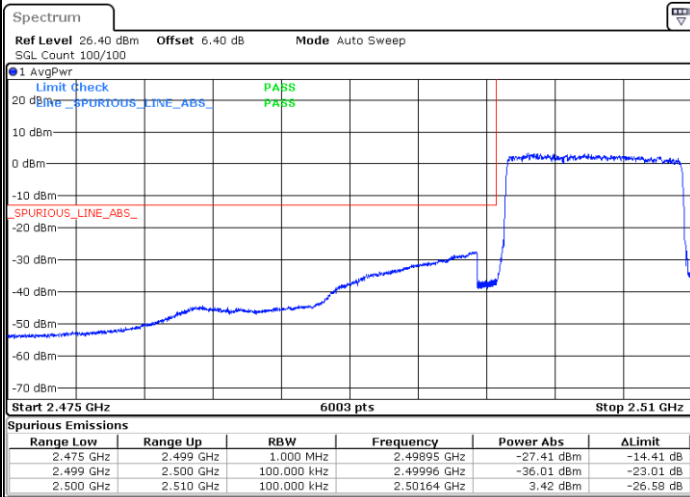
Date: 24 AUG 2023 09:11:33



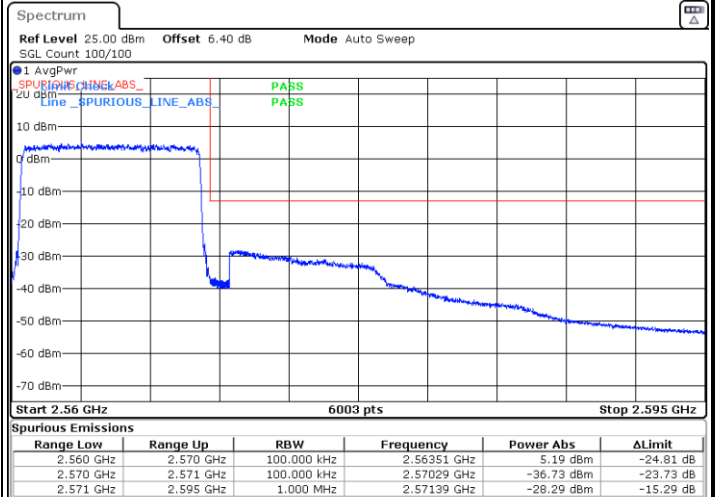
Date: 18.AUG.2023 21:23:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24 AUG 2023 09:15:11

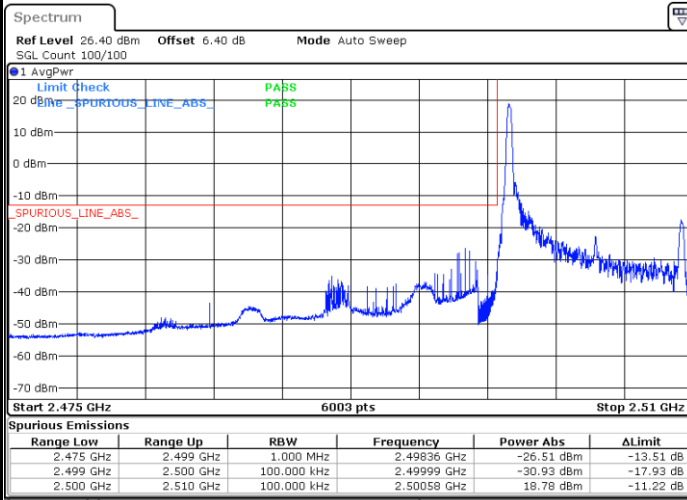


Date: 18.AUG.2023 21:26:42



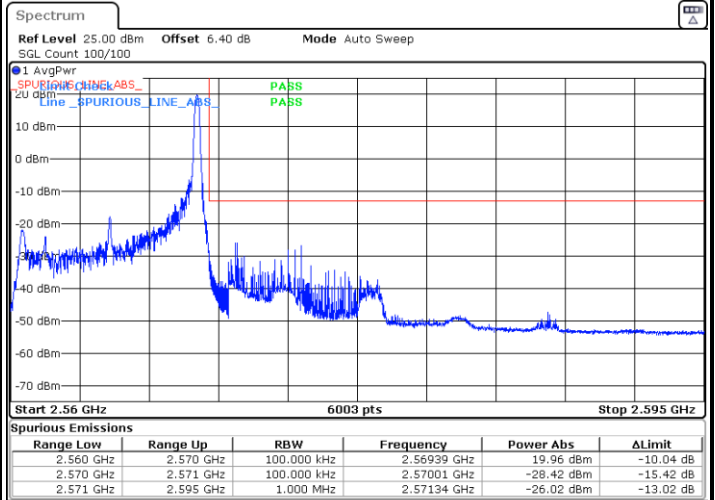
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



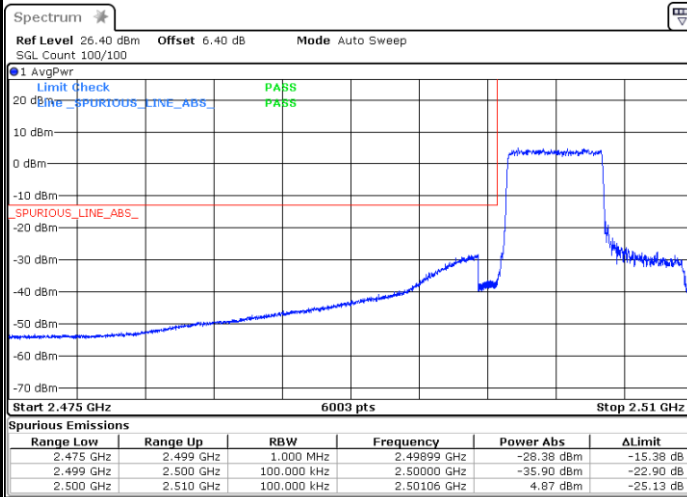
Date: 24 AUG 2023 09:12:17

Highest Band Edge / 1 RB



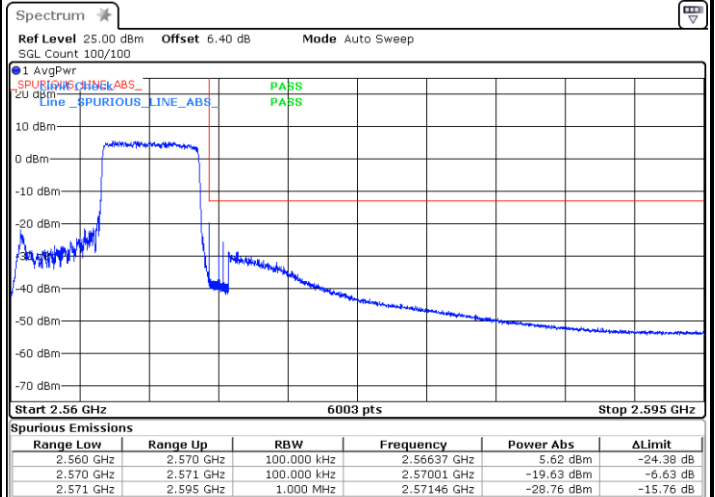
Date: 18.AUG.2023 21:25:19

Lowest Band Edge / Full RB



Date: 24 AUG 2023 09:16:40

Highest Band Edge / Full RB

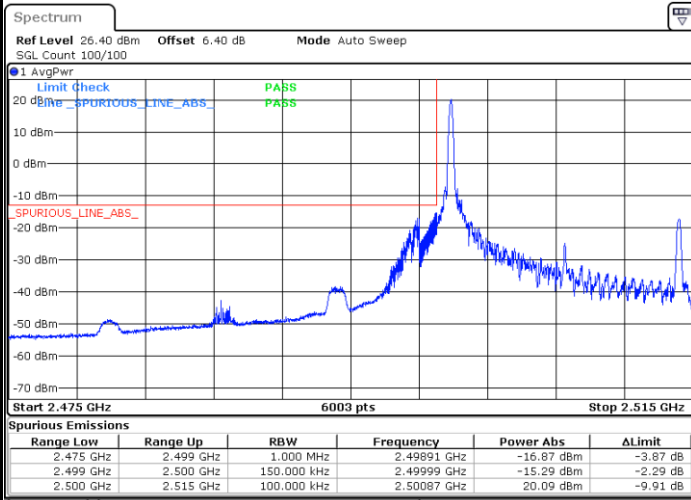


Date: 22.AUG.2023 14:50:37



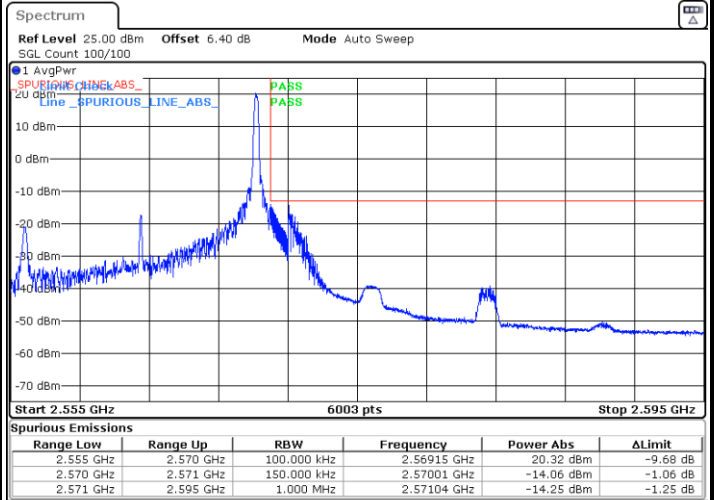
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



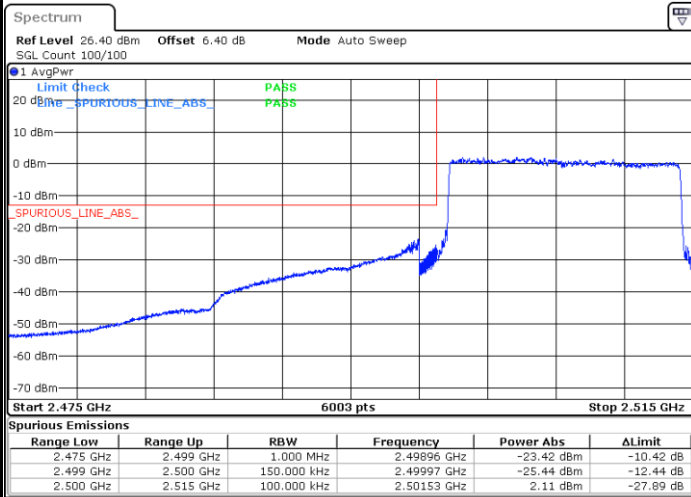
Date: 24 AUG 2023 09:22:27

Highest Band Edge / 1 RB



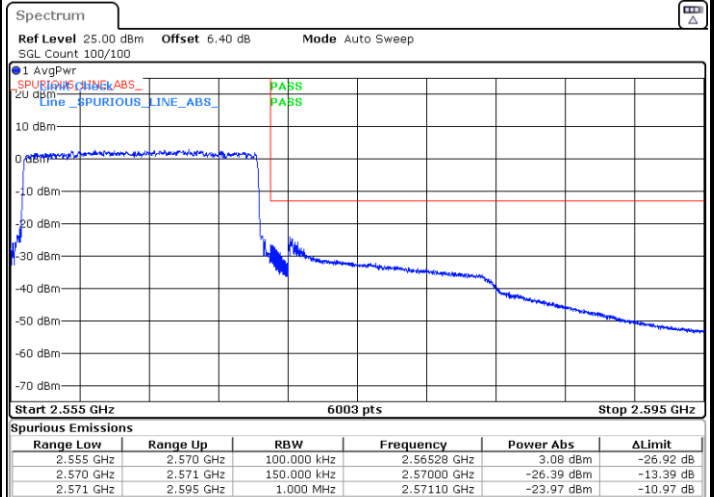
Date: 18.AUG.2023 21:32:06

Lowest Band Edge / Full RB



Date: 24 AUG 2023 09:26:17

Highest Band Edge / Full RB

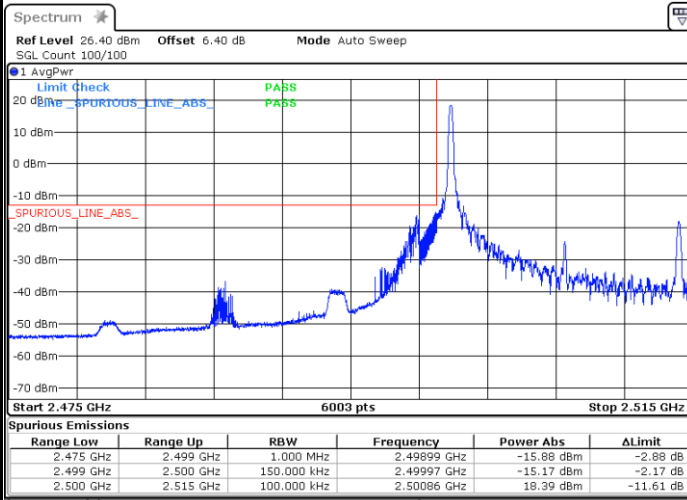


Date: 18.AUG.2023 21:34:47



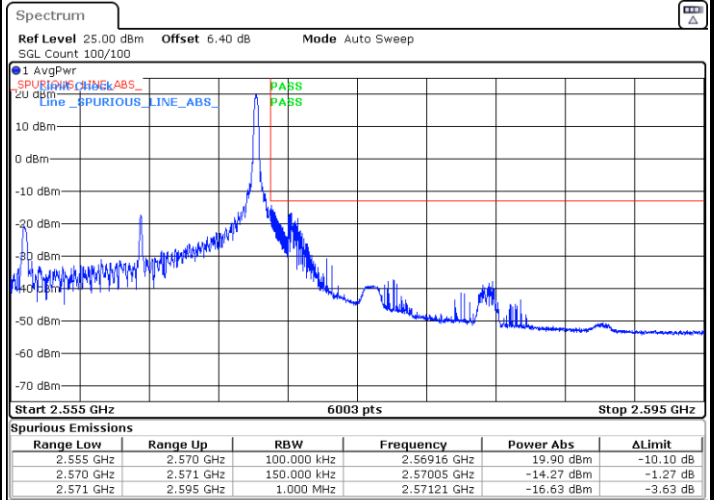
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



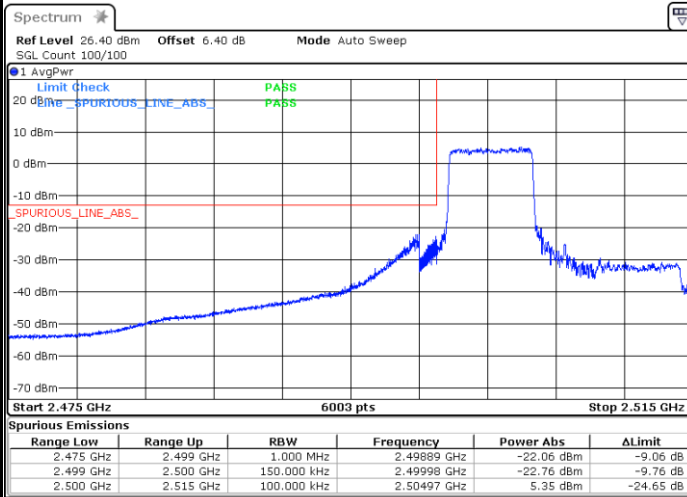
Date: 24 AUG 2023 09:23:37

Highest Band Edge / 1 RB



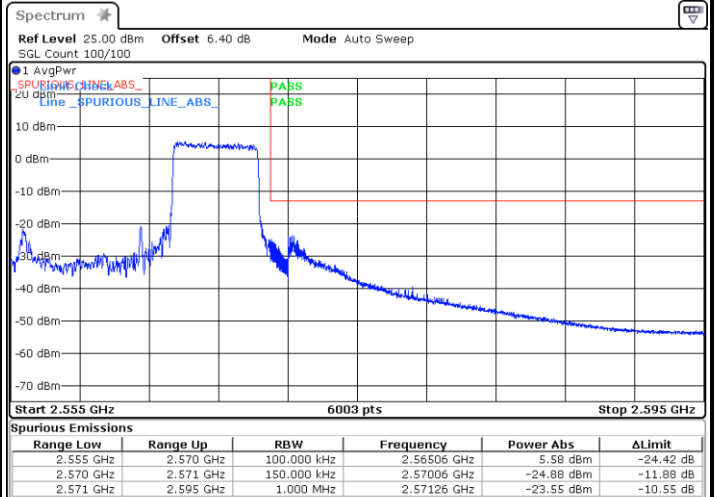
Date: 18.AUG.2023 21:33:27

Lowest Band Edge / Full RB



Date: 24 AUG 2023 09:28:51

Highest Band Edge / Full RB

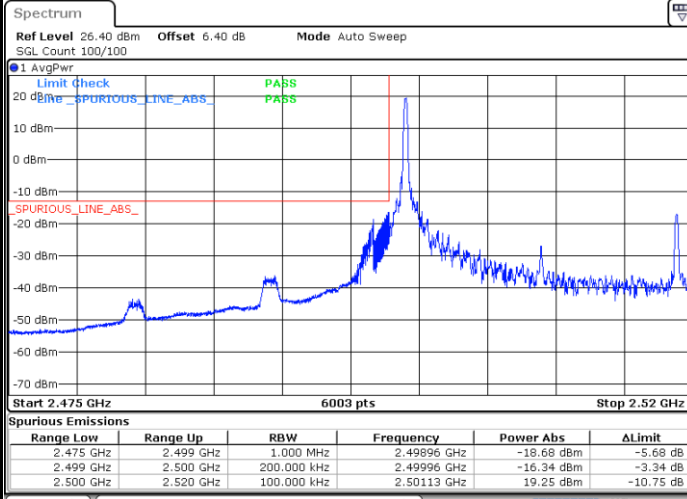


Date: 22.AUG.2023 15:02:50



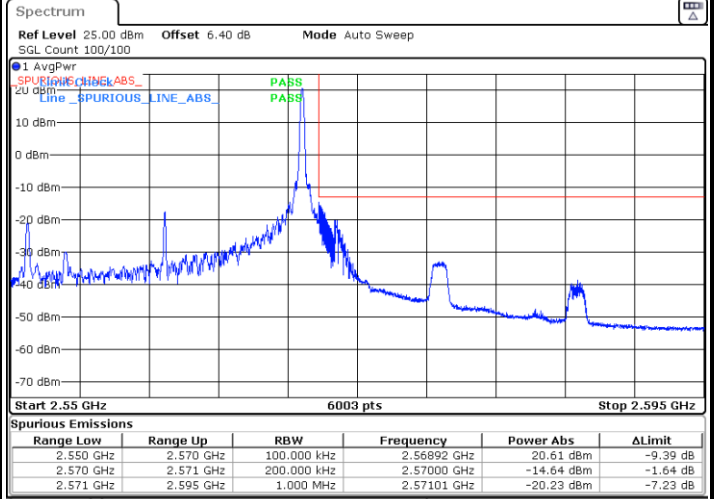
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



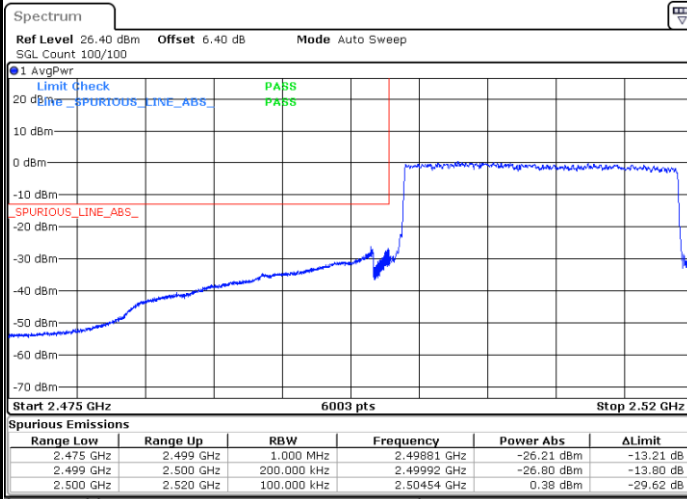
Date: 24 AUG 2023 09:29:44

Highest Band Edge / 1 RB



Date: 18.AUG.2023 21:40:12

Lowest Band Edge / Full RB



Date: 24 AUG 2023 09:30:54

Highest Band Edge / Full RB

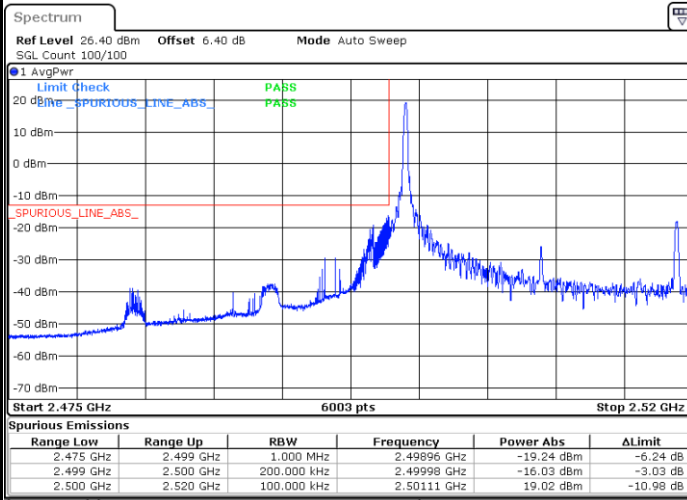


Date: 18.AUG.2023 21:42:56



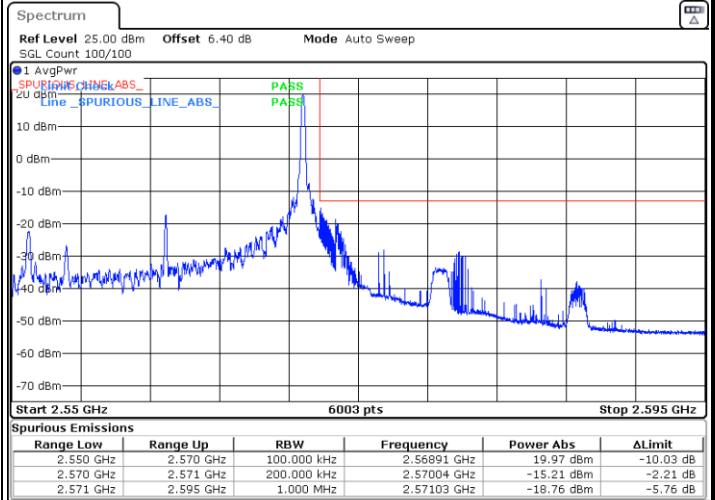
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



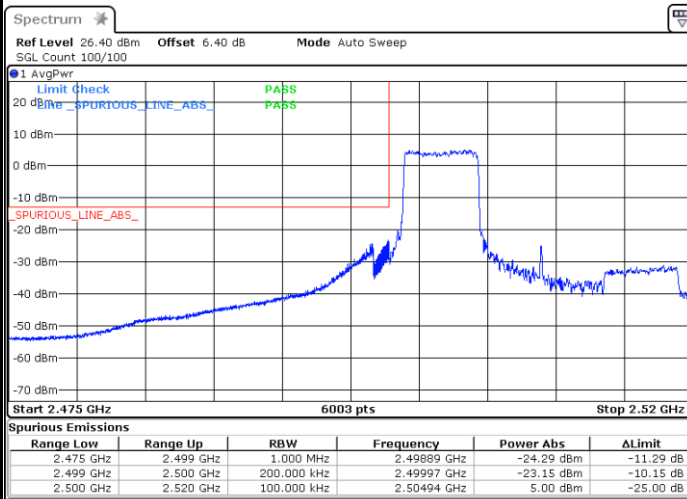
Date: 24 AUG 2023 09:30:23

Highest Band Edge / 1 RB



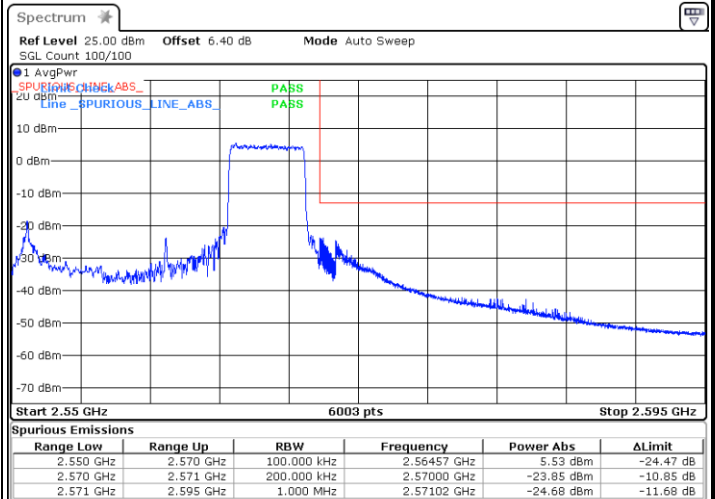
Date: 18.AUG.2023 21:41:34

Lowest Band Edge / Full RB



Date: 24 AUG 2023 09:31:37

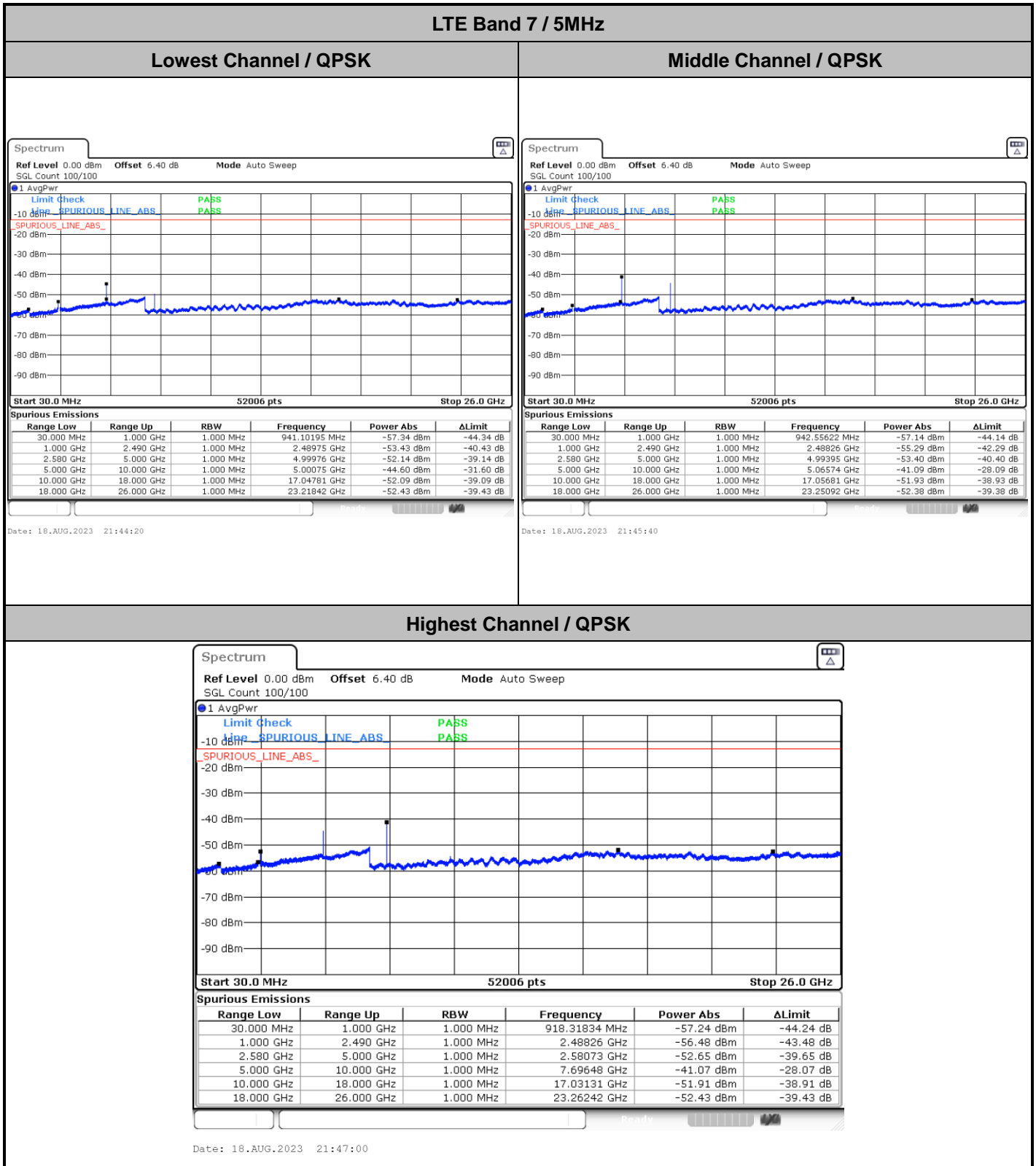
Highest Band Edge / Full RB



Date: 22.AUG.2023 15:07:48



Conducted Spurious Emission

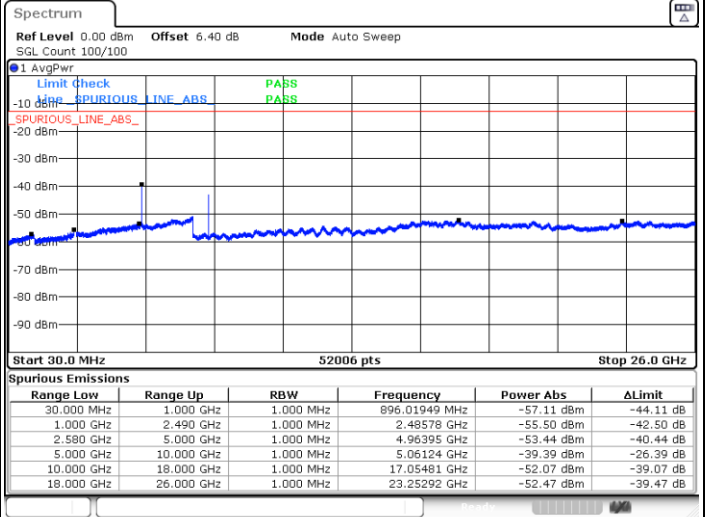
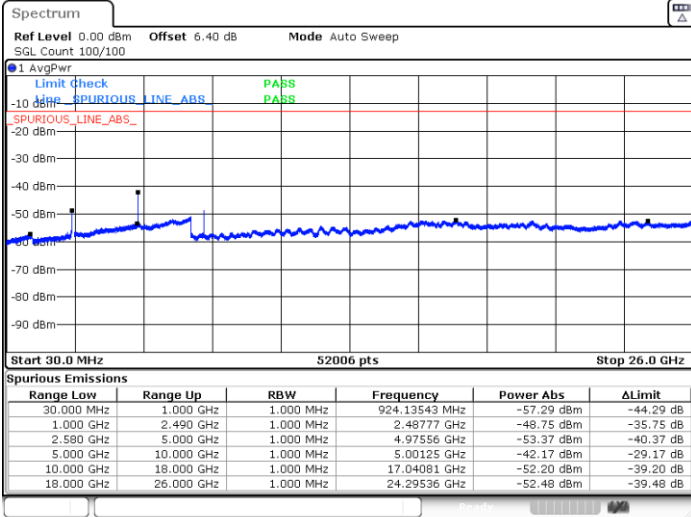




LTE Band 7 / 10MHz

Lowest Channel / QPSK

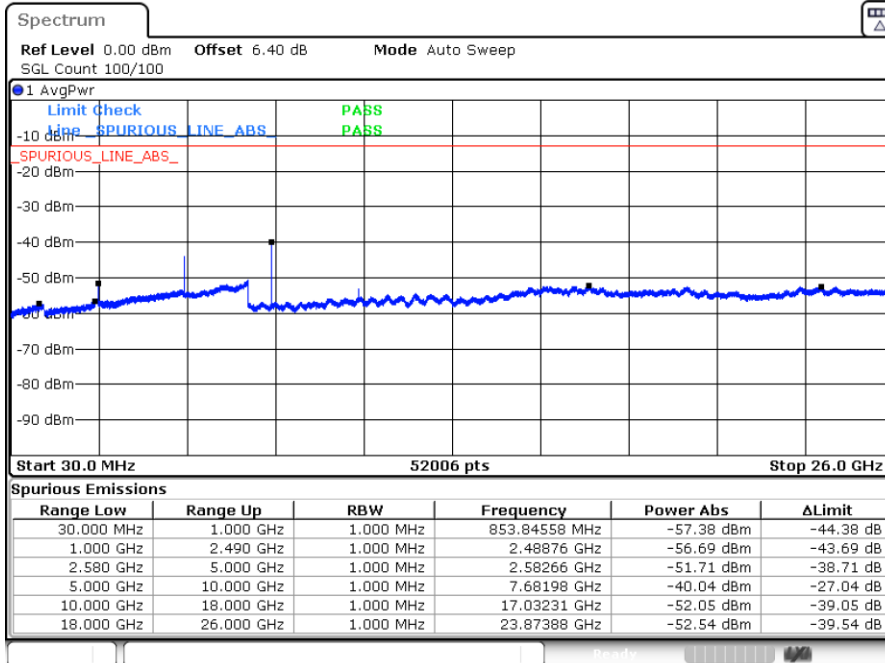
Middle Channel / QPSK



Date: 18.AUG.2023 21:48:21

Date: 18.AUG.2023 21:49:41

Highest Channel / QPSK



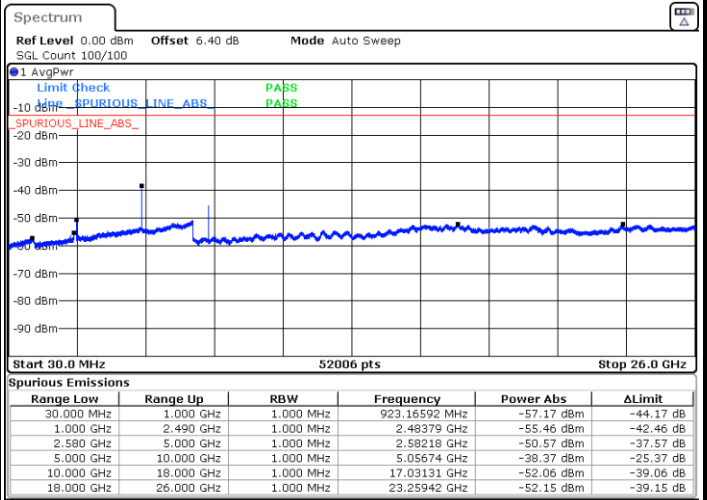
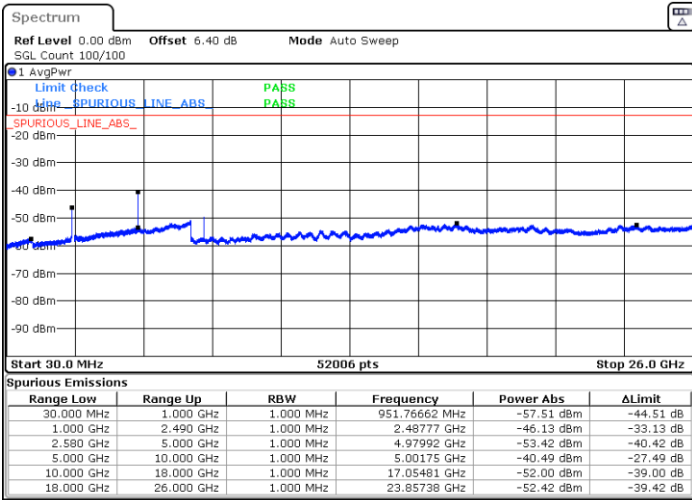
Date: 18.AUG.2023 21:51:00



LTE Band 7 / 15MHz

Lowest Channel / QPSK

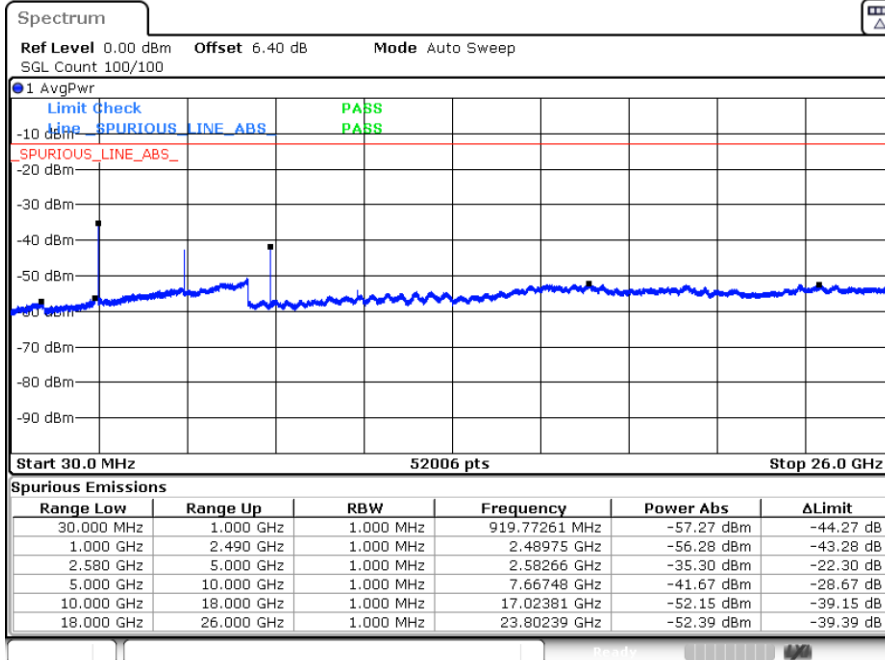
Middle Channel / QPSK



Date: 18.AUG.2023 21:52:21

Date: 18.AUG.2023 21:53:41

Highest Channel / QPSK



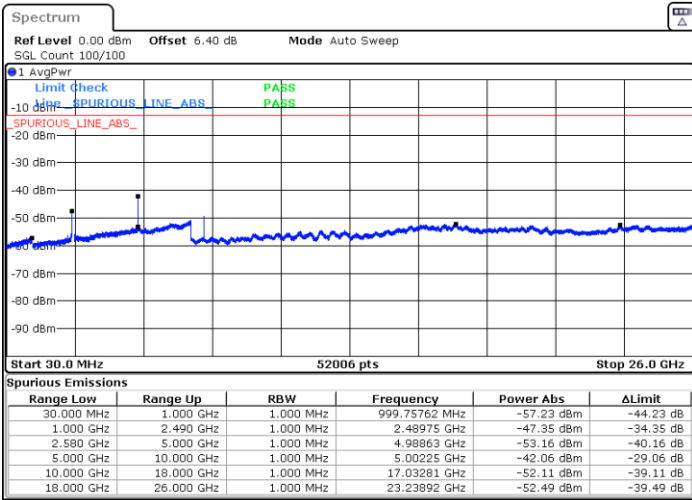
Date: 18.AUG.2023 21:55:00



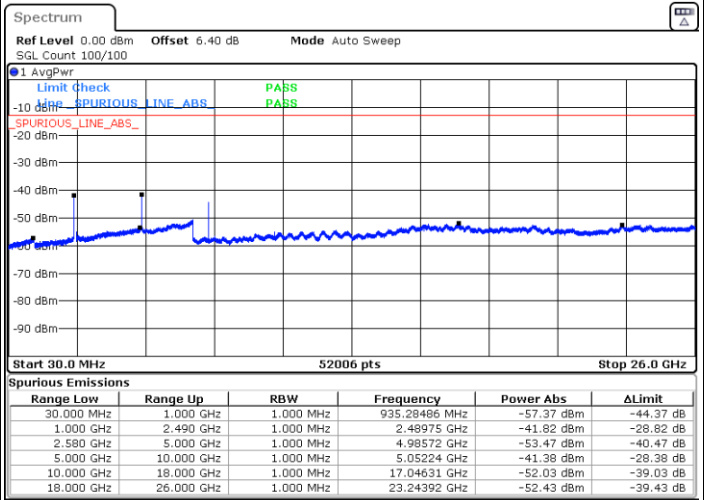
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

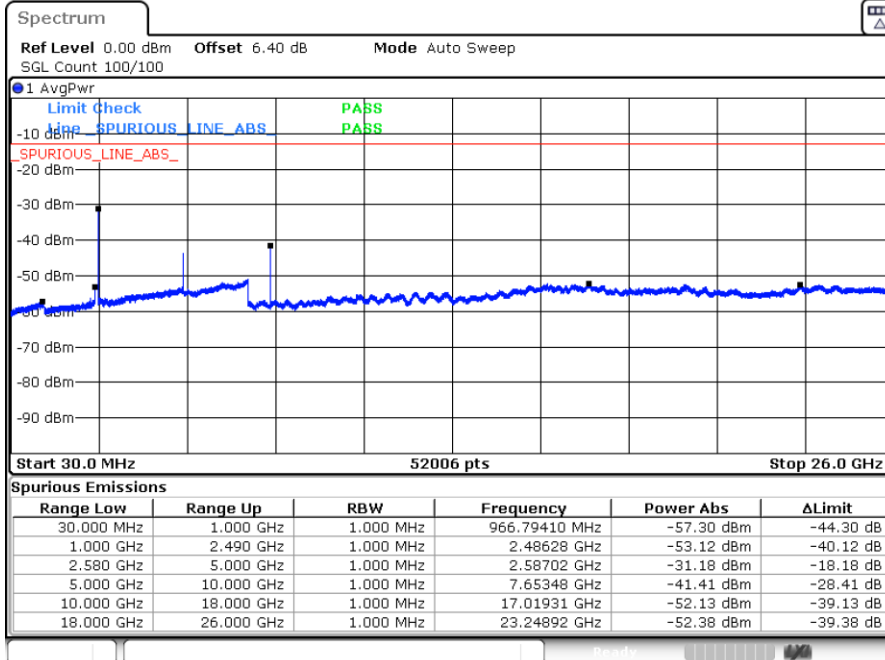


Date: 18.AUG.2023 21:56:21



Date: 18.AUG.2023 21:57:41

Highest Channel / QPSK



Date: 18.AUG.2023 21:59:01



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	0.0023	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0005	
20	Minimum Voltage	0.0016	

Note:

1. Normal Voltage =3.8 V. ; Minimum Voltage =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



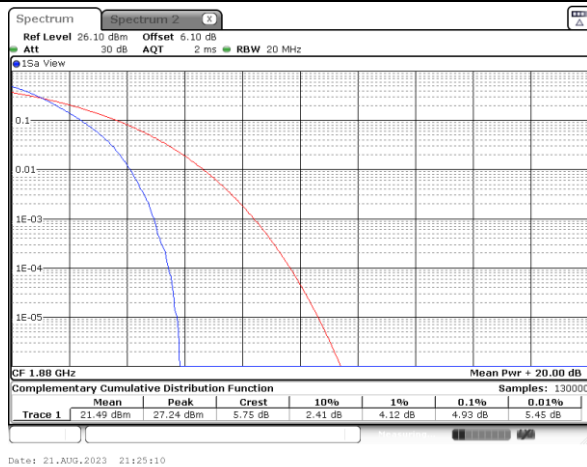
LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB		Result
Middle CH	4.93	5.88	PASS

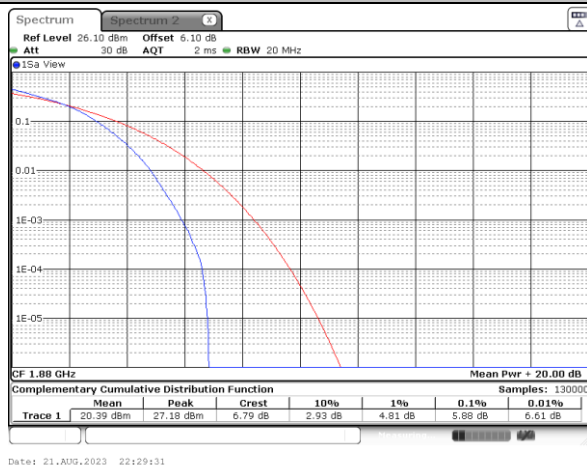
LTE Band 25 / 20MHz / Full RB

Middle Channel / QPSK



Date: 21.AUG.2023 21:25:10

Middle Channel / 16QAM



Date: 21.AUG.2023 22:29:31



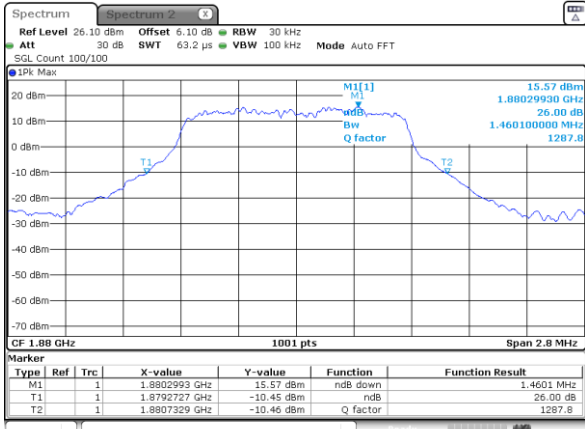
26dB Bandwidth

Mode	LTE Band 25 : 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	1.46	1.42	3.19	3.10	5.12	5.01	9.71	7.19	15.05	7.46	19.78	6.07



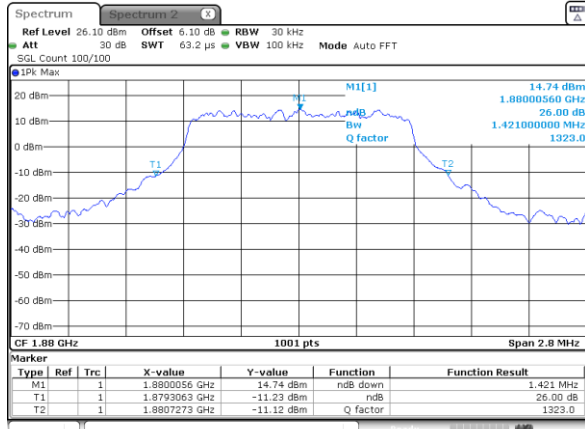
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 21.AUG.2023 20:33:08

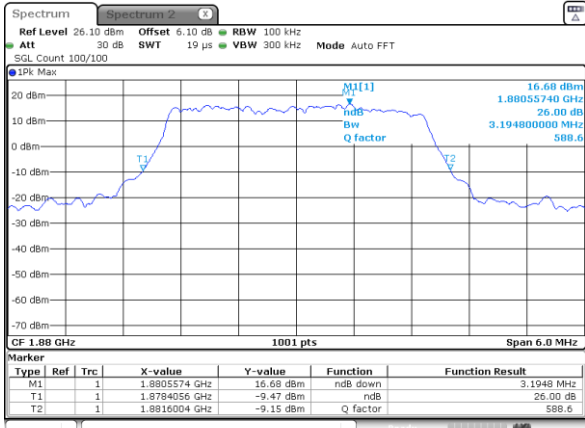
Middle Channel / 1.4MHz / 16QAM



Date: 21.AUG.2023 20:33:32

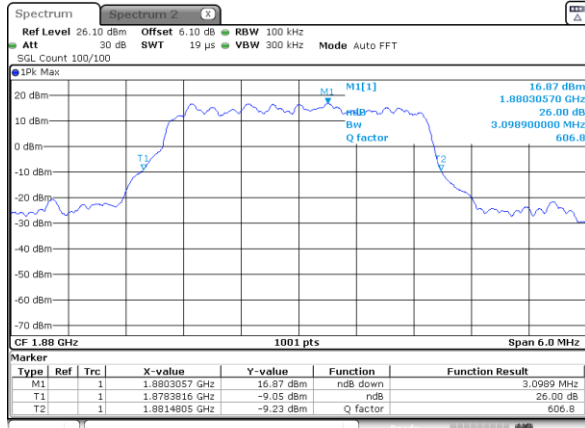
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 21.AUG.2023 20:45:48

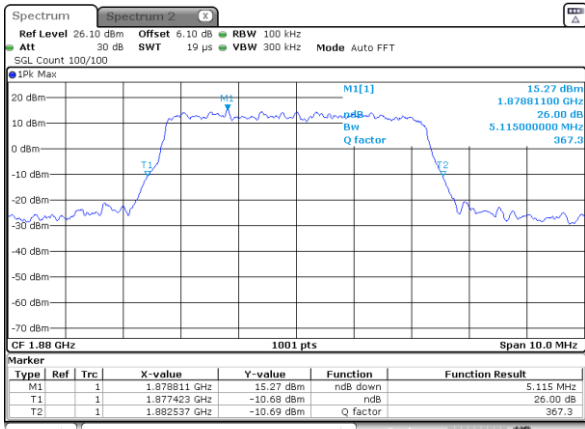
Middle Channel / 3MHz / 16QAM



Date: 21.AUG.2023 20:46:37

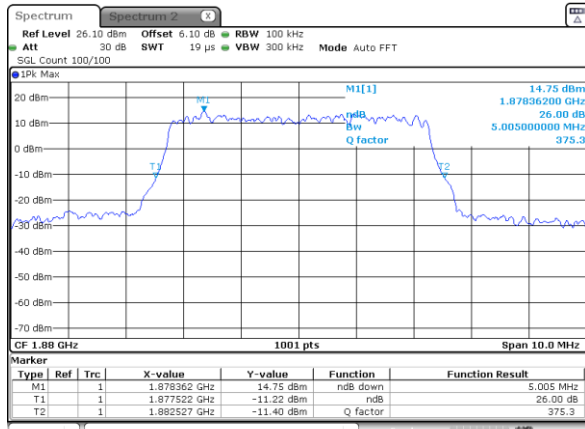
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 21.AUG.2023 20:54:43

Middle Channel / 5MHz / 16QAM

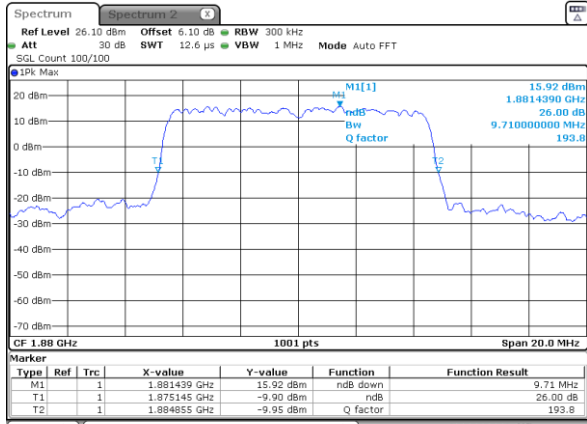


Date: 21.AUG.2023 20:55:05



LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 21.AUG.2023 22:50:48

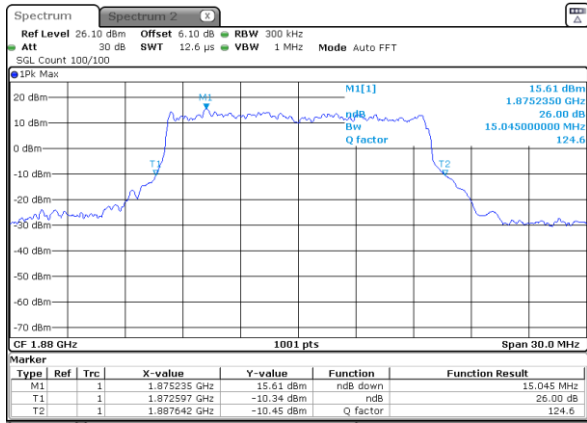
Middle Channel / 10MHz / 16QAM



Date: 21.AUG.2023 22:47:58

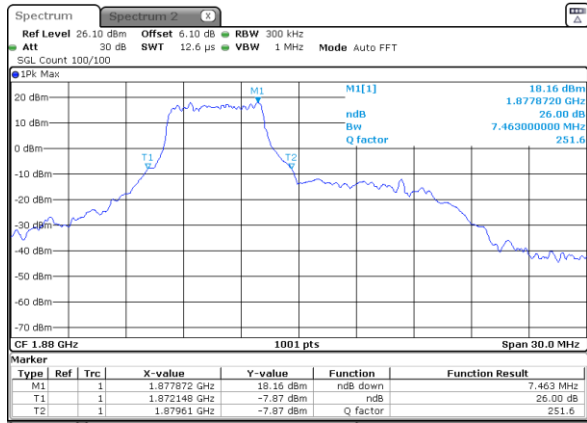
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 21.AUG.2023 22:53:03

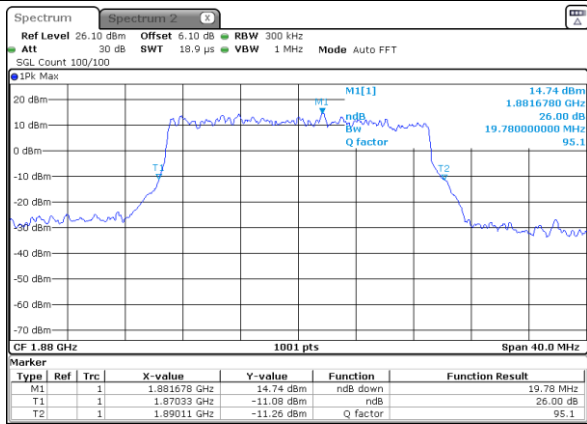
Middle Channel / 15MHz / 16QAM



Date: 21.AUG.2023 22:46:20

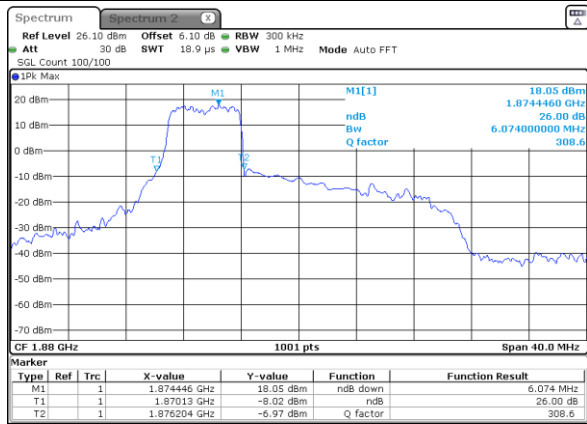
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 21.AUG.2023 22:55:17

Middle Channel / 20MHz / 16QAM



Date: 21.AUG.2023 22:44:17



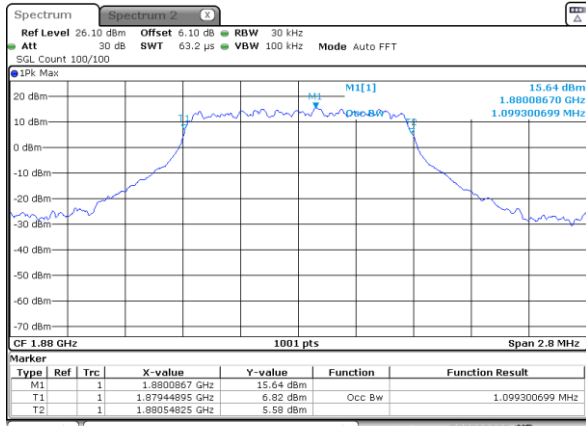
Occupied Bandwidth

Mode	LTE Band 25 : 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	1.10	1.09	2.72	2.70	4.48	4.44	9.03	5.07	13.46	5.15	17.94	5.31



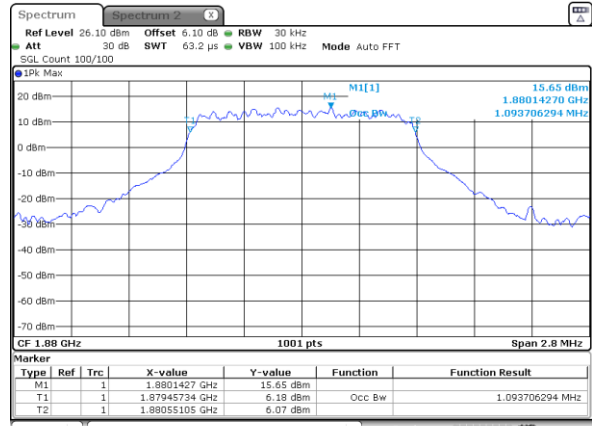
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 21.AUG.2023 20:32:43

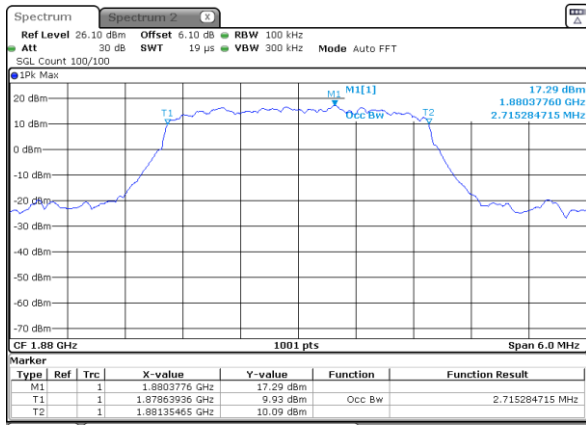
Middle Channel / 1.4MHz / 16QAM



Date: 21.AUG.2023 20:33:57

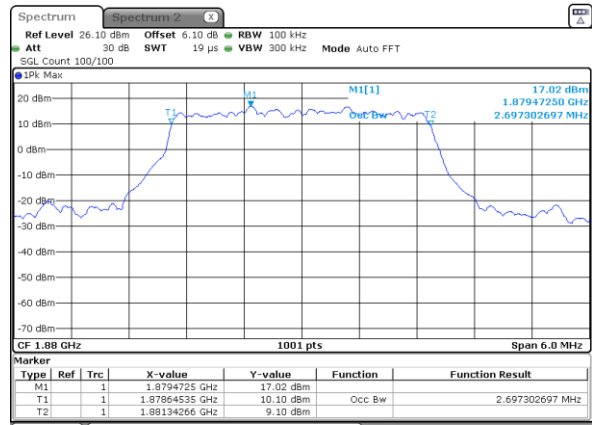
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 21.AUG.2023 20:45:24

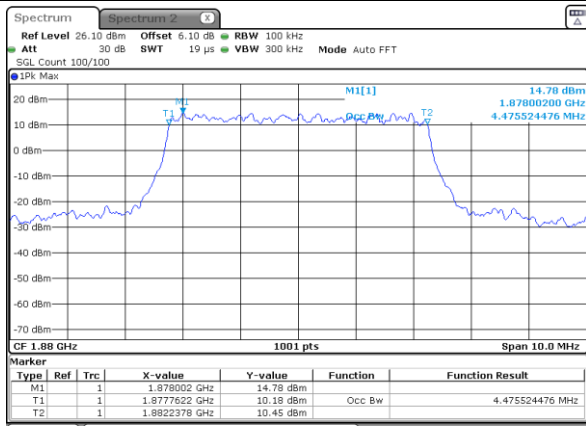
Middle Channel / 3MHz / 16QAM



Date: 21.AUG.2023 20:46:13

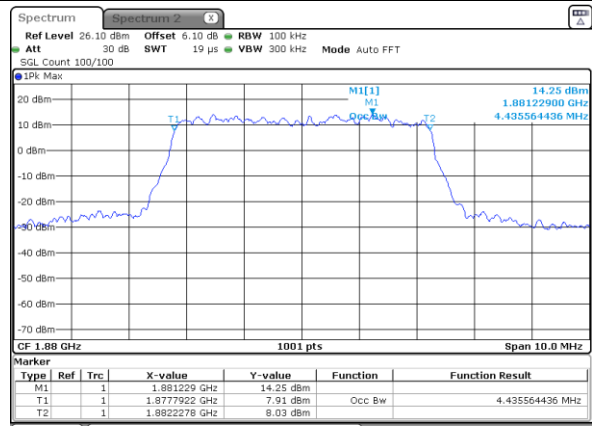
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 21.AUG.2023 20:54:16

Middle Channel / 5MHz / 16QAM

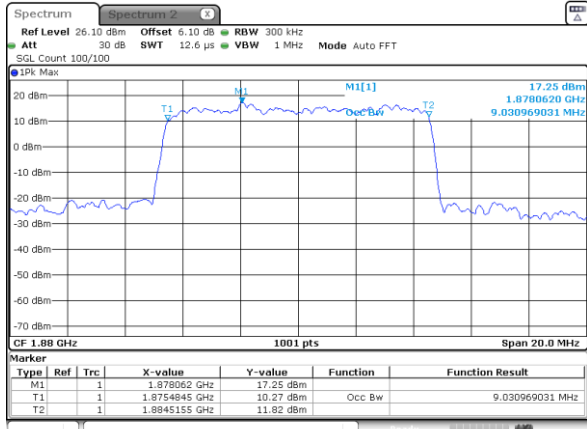


Date: 21.AUG.2023 20:55:30



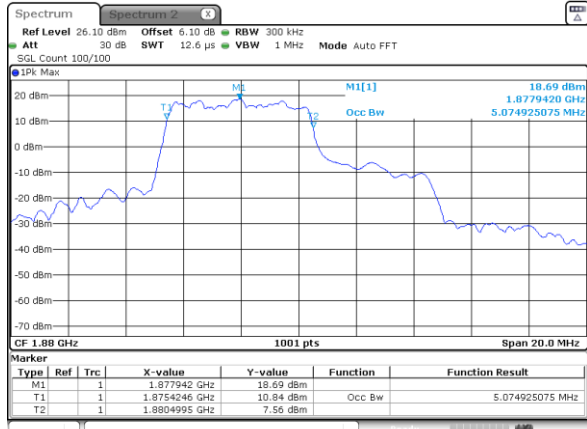
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 21.AUG.2023 22:50:23

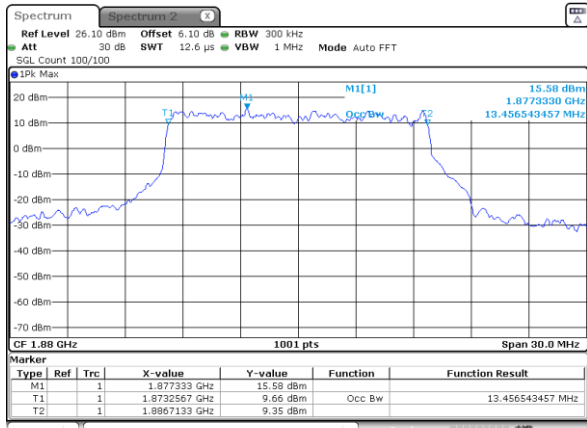
Middle Channel / 10MHz / 16QAM



Date: 21.AUG.2023 22:47:14

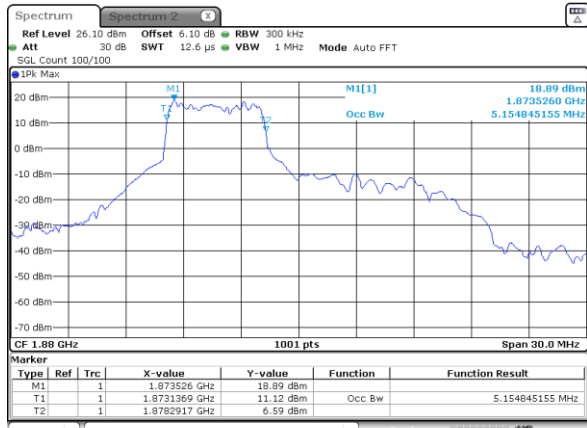
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 21.AUG.2023 22:52:38

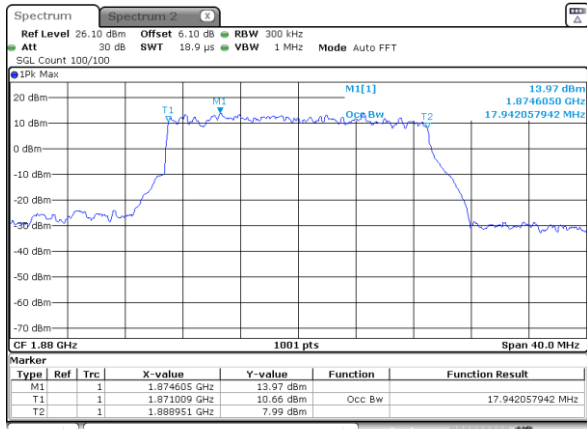
Middle Channel / 15MHz / 16QAM



Date: 21.AUG.2023 22:45:42

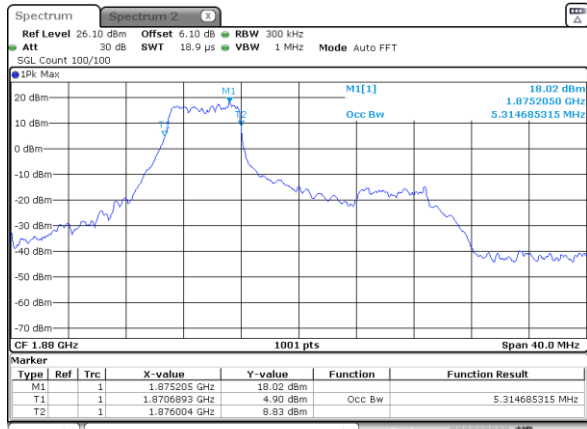
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 21.AUG.2023 22:54:52

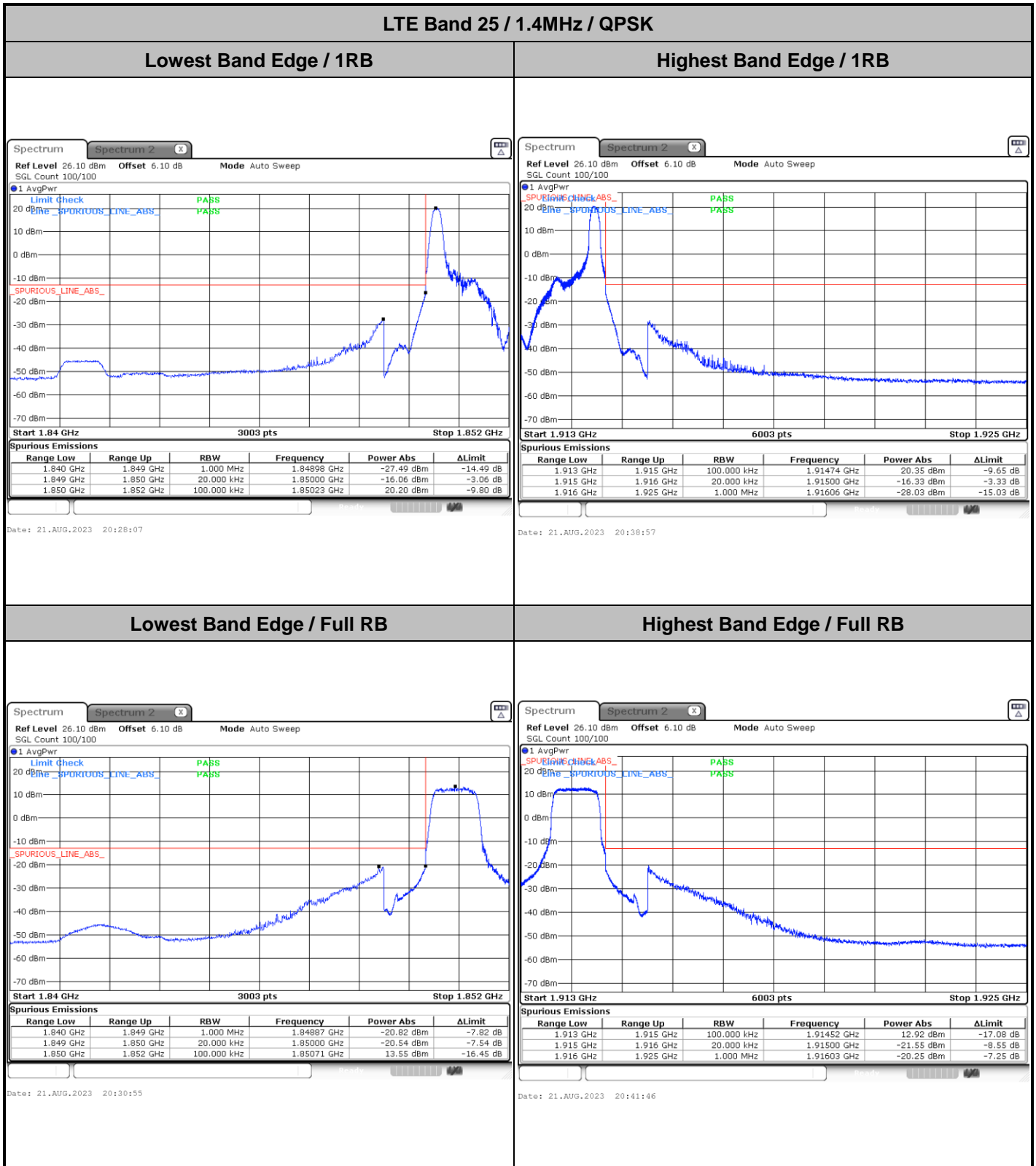
Middle Channel / 20MHz / 16QAM



Date: 21.AUG.2023 22:43:26



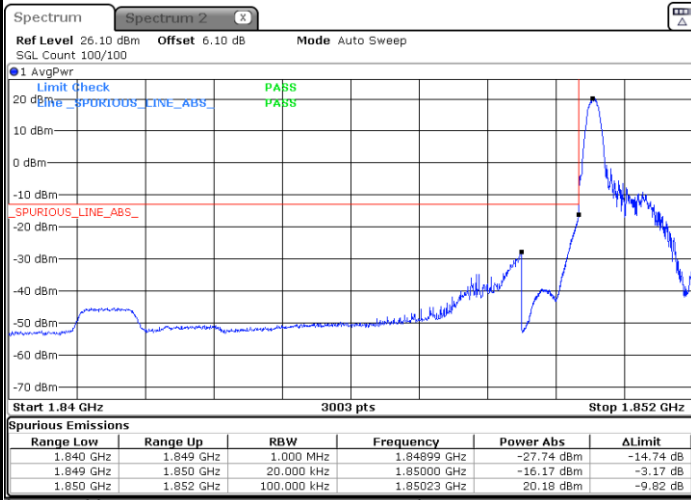
Conducted Band Edge





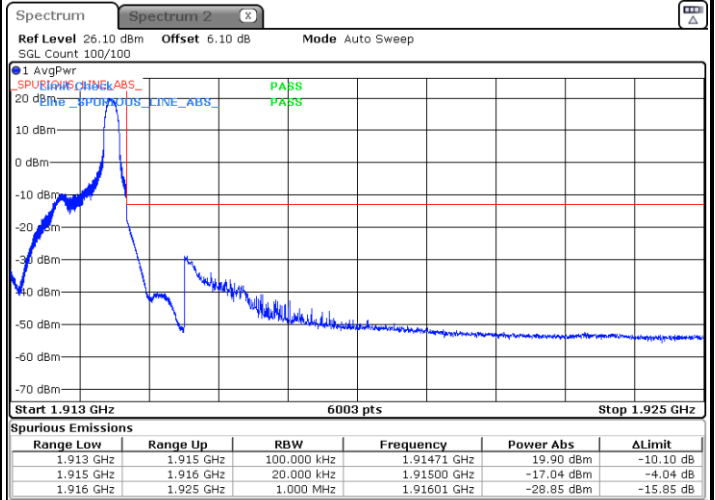
LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



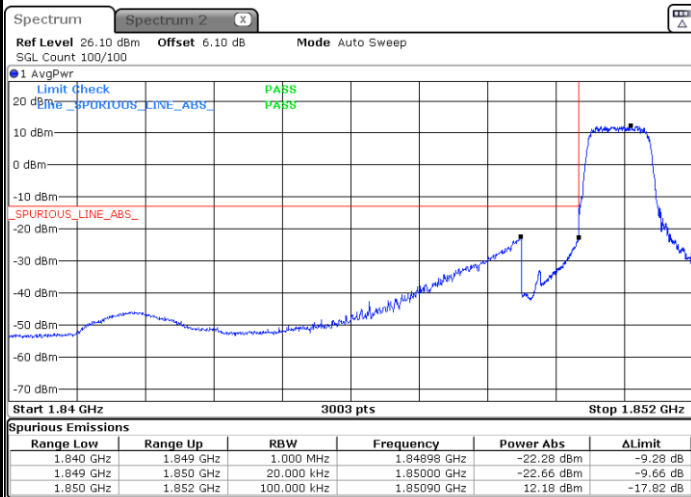
Date: 21.AUG.2023 20:29:31

Highest Band Edge / 1 RB



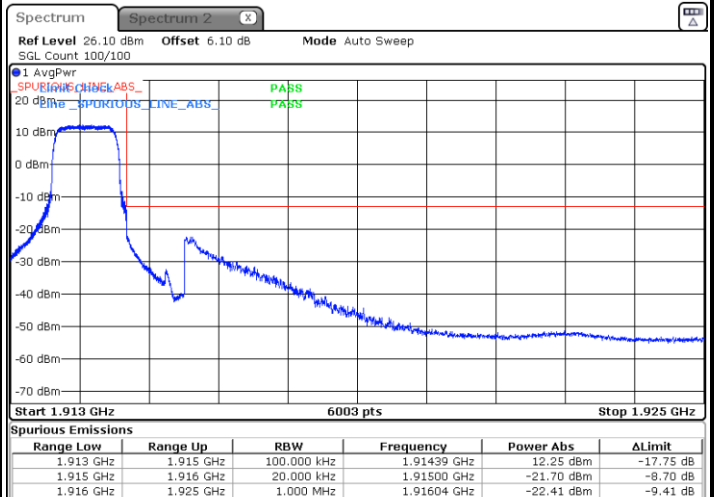
Date: 21.AUG.2023 20:40:21

Lowest Band Edge / Full RB



Date: 21.AUG.2023 20:32:19

Highest Band Edge / Full RB

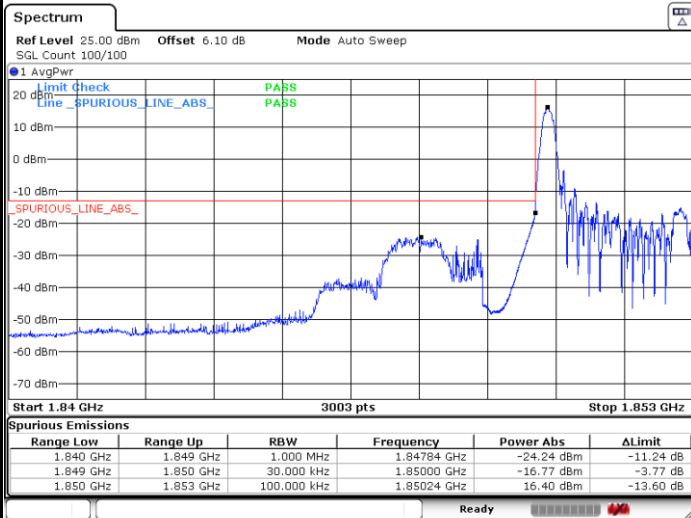


Date: 21.AUG.2023 20:43:10

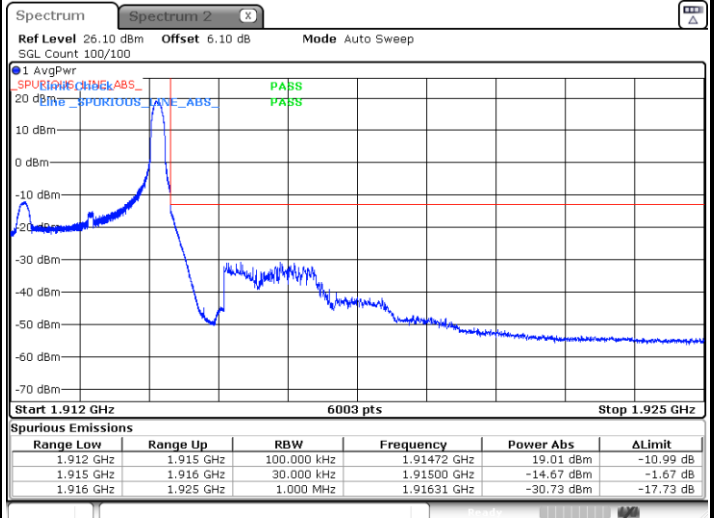


LTE Band 25 / 3MHz / QPSK

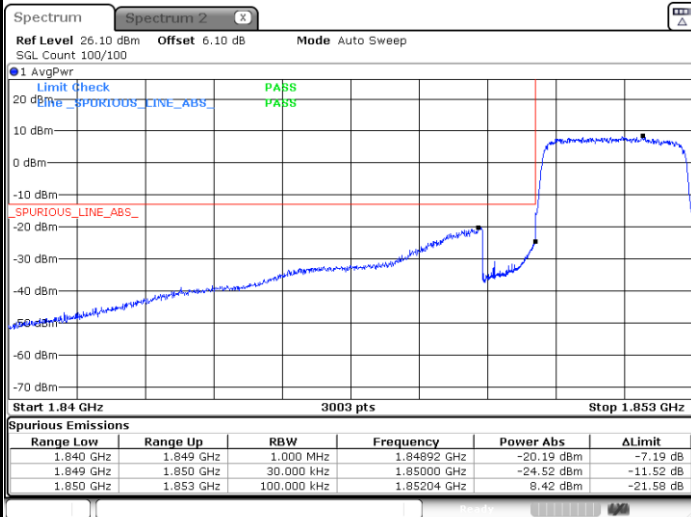
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

