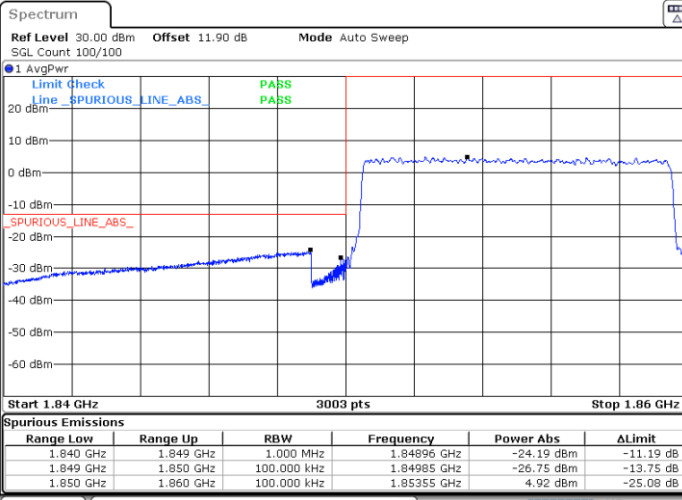




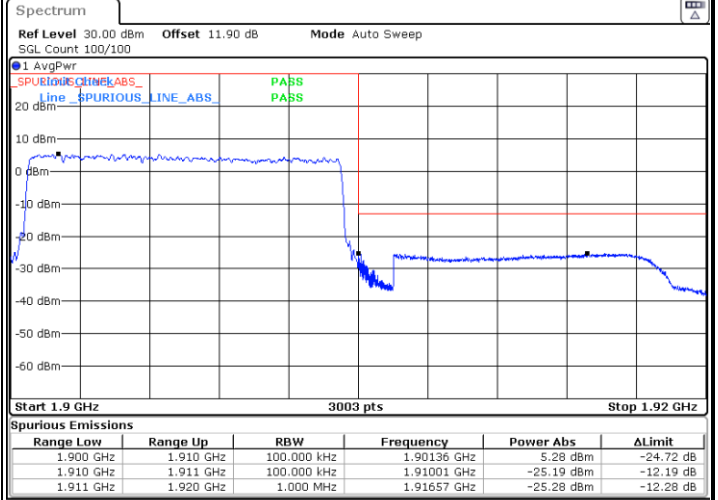
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 05:34:13

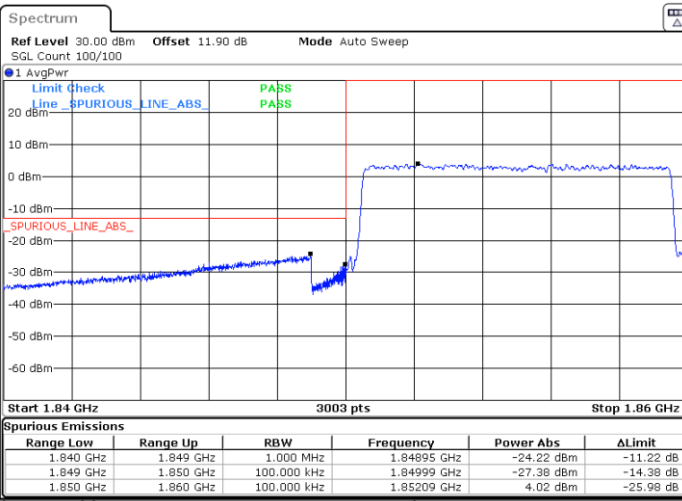
Highest Band Edge / Full RB



Date: 1.AUG.2023 05:41:31

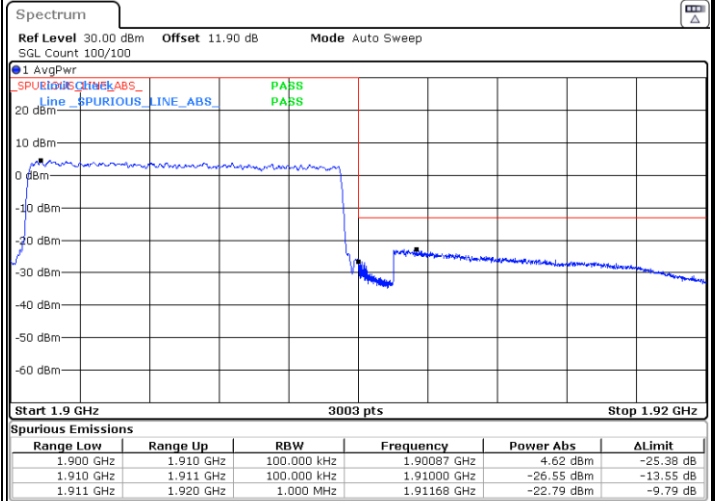
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 05:35:12

Highest Band Edge / Full RB

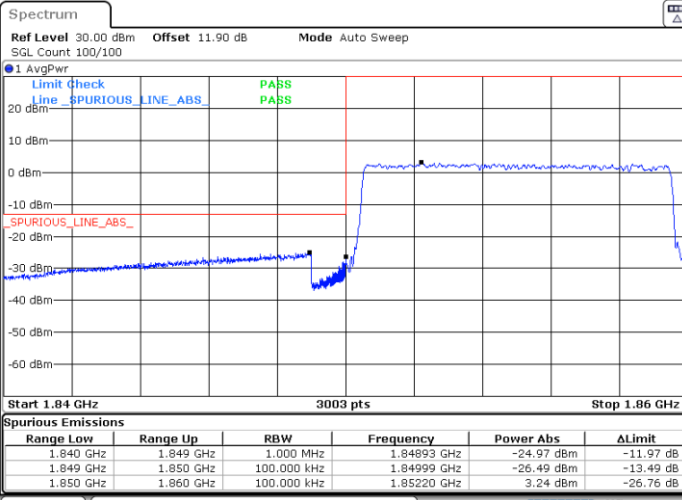


Date: 1.AUG.2023 05:42:31

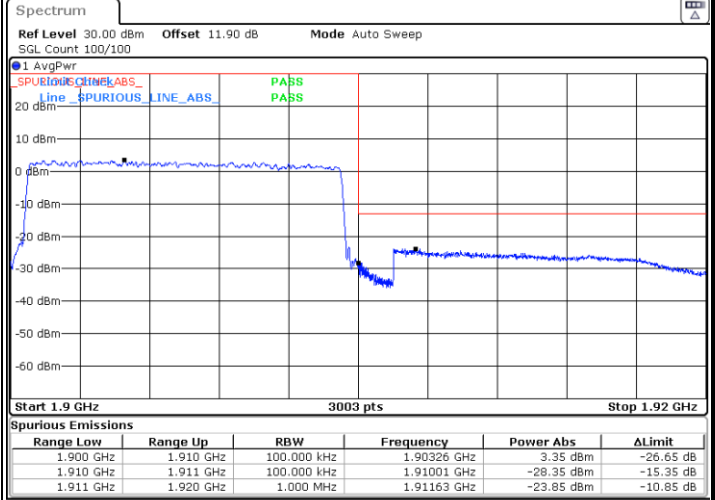


LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / Full RB

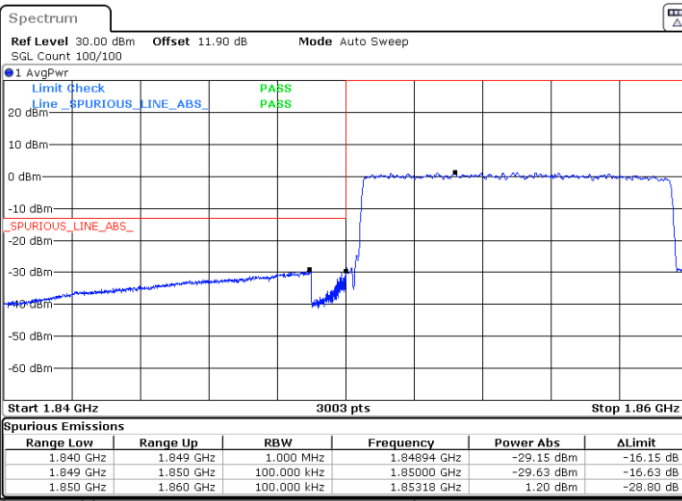


Highest Band Edge / Full RB

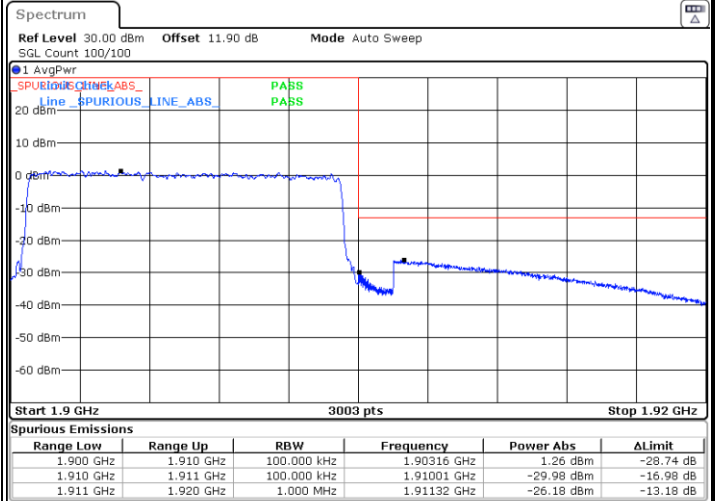


LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / Full RB



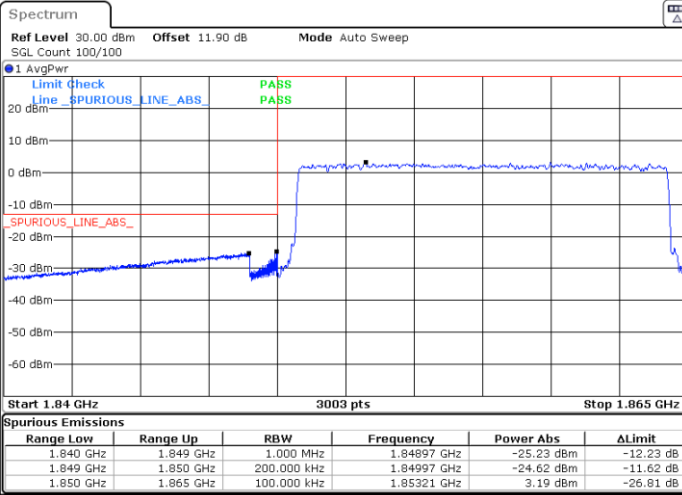
Highest Band Edge / Full RB





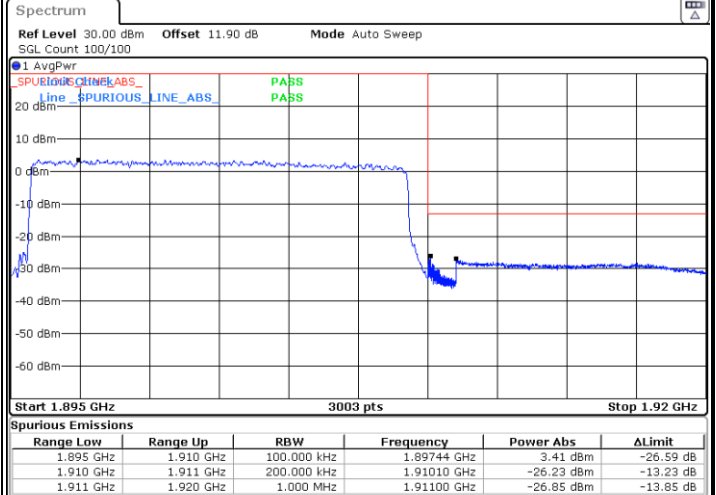
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 05:48:11

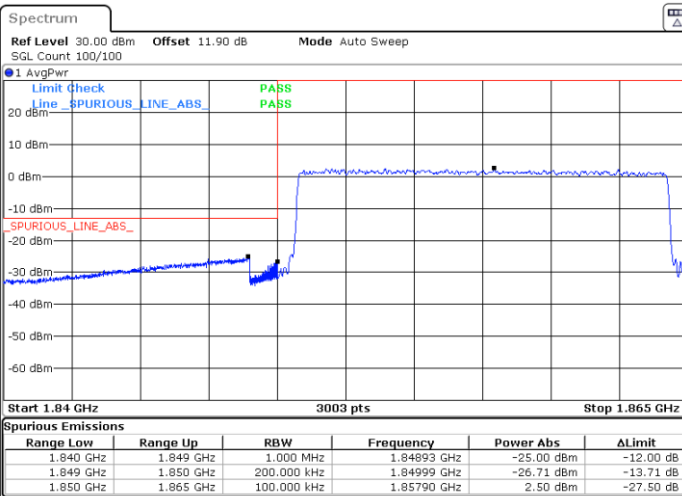
Highest Band Edge / Full RB



Date: 1.AUG.2023 05:52:05

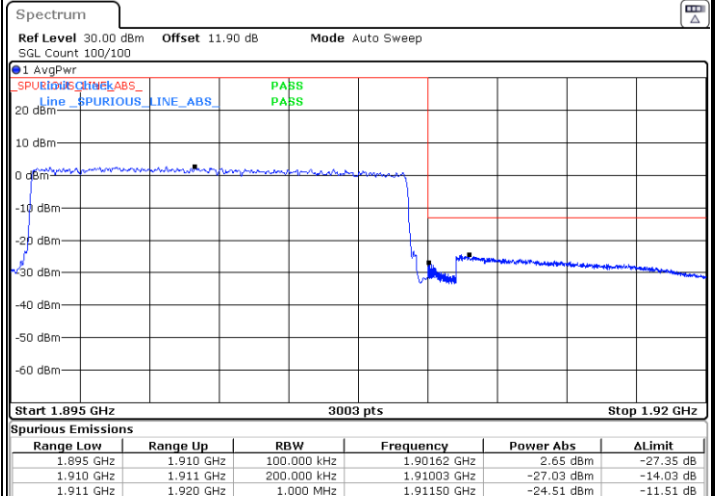
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 05:49:10

Highest Band Edge / Full RB

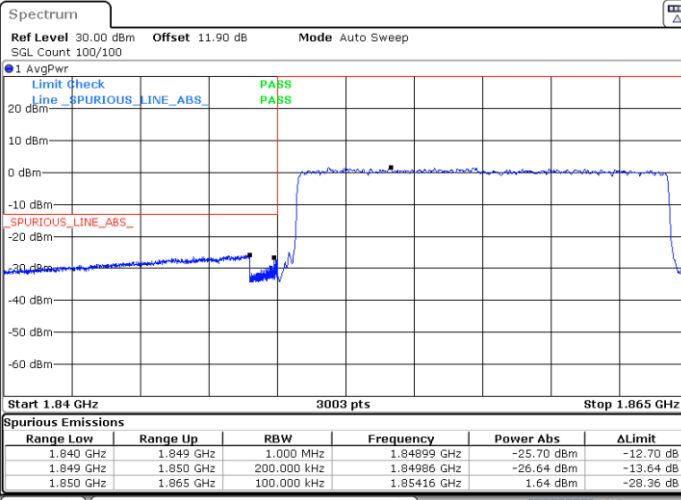


Date: 1.AUG.2023 05:53:04

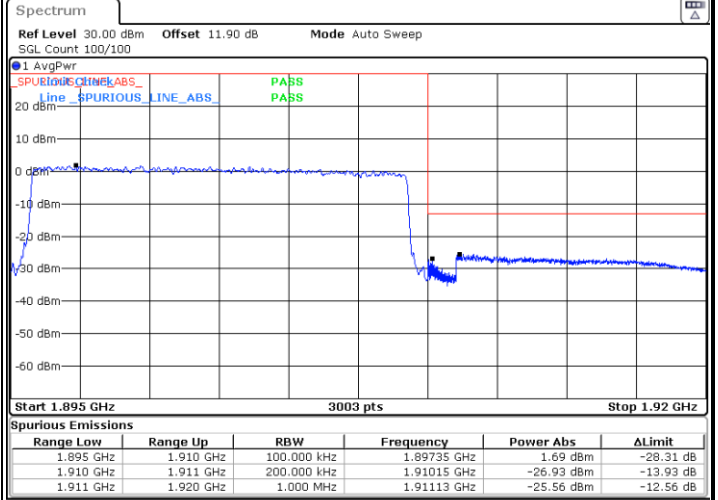


LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / Full RB

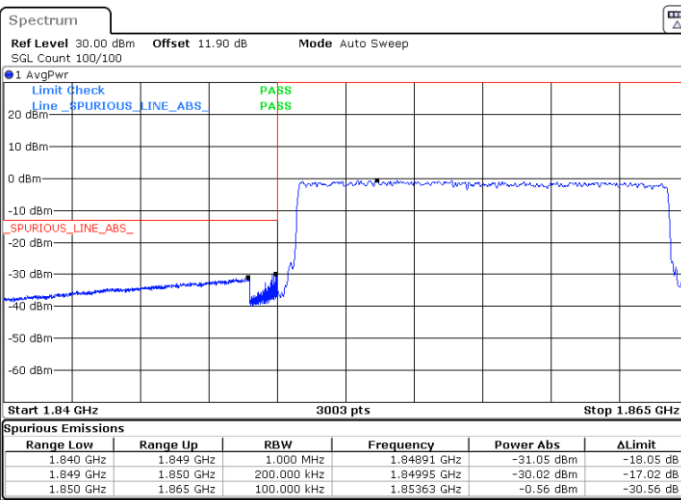


Highest Band Edge / Full RB

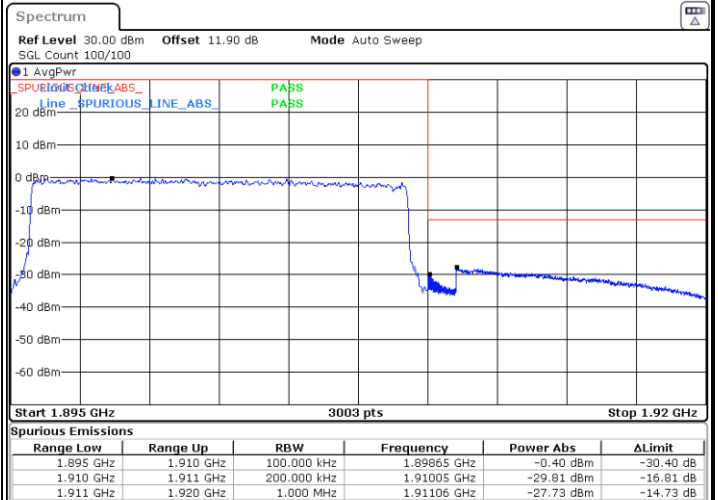


LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / Full RB



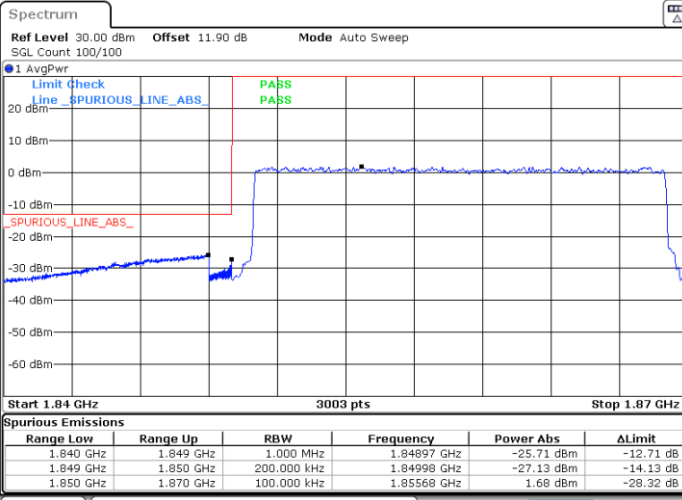
Highest Band Edge / Full RB





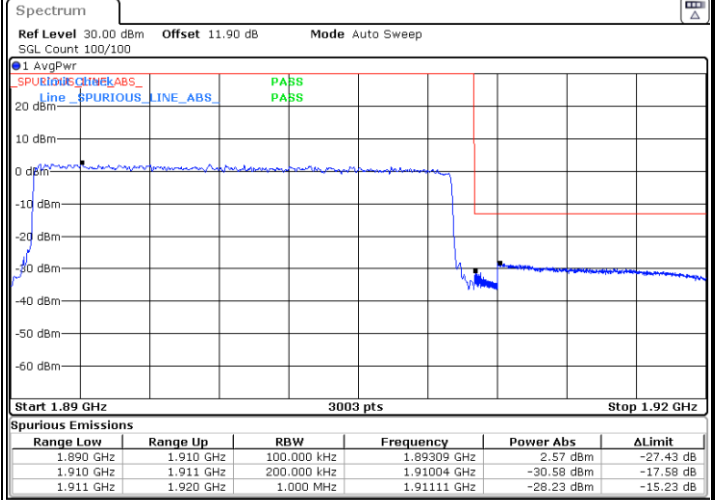
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:02:09

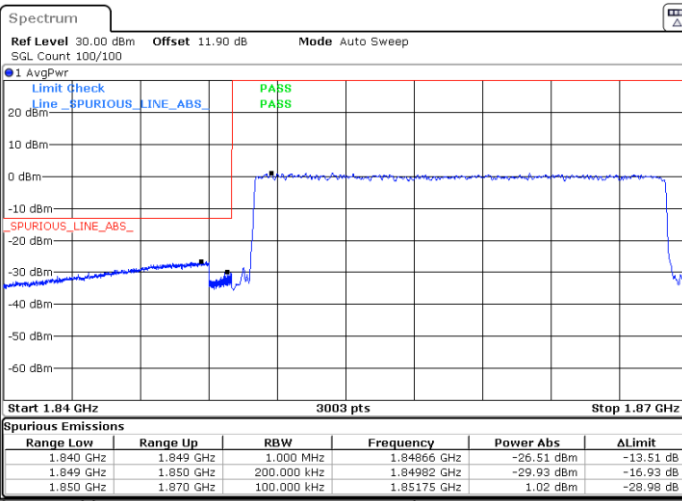
Highest Band Edge / Full RB



Date: 1.AUG.2023 06:06:03

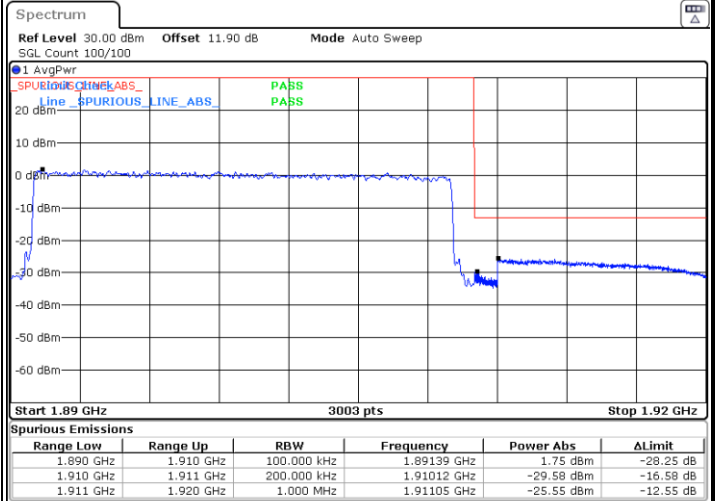
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:03:08

Highest Band Edge / Full RB

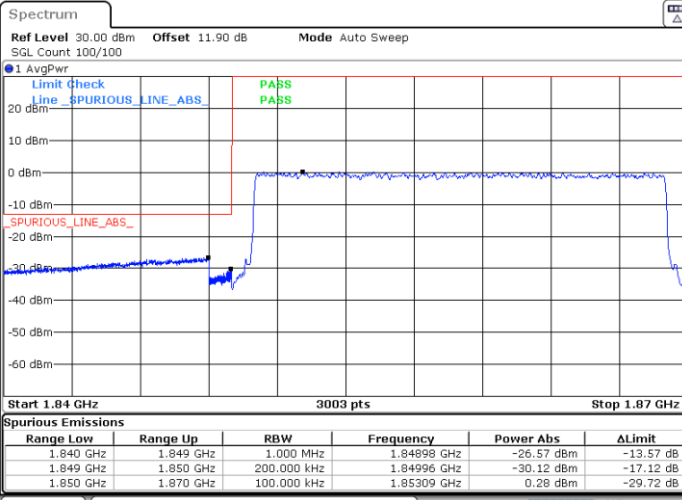


Date: 1.AUG.2023 06:07:02



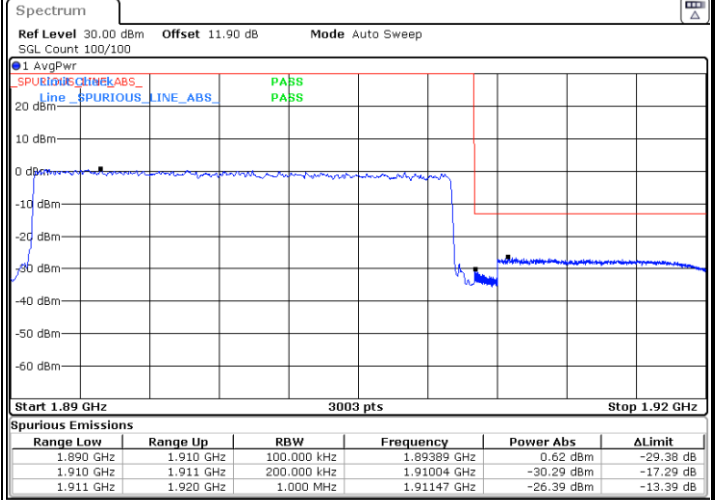
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:08:02

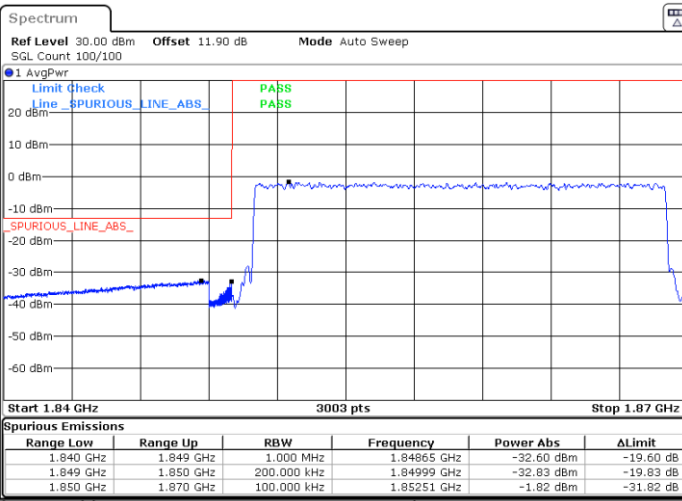
Highest Band Edge / Full RB



Date: 1.AUG.2023 06:09:43

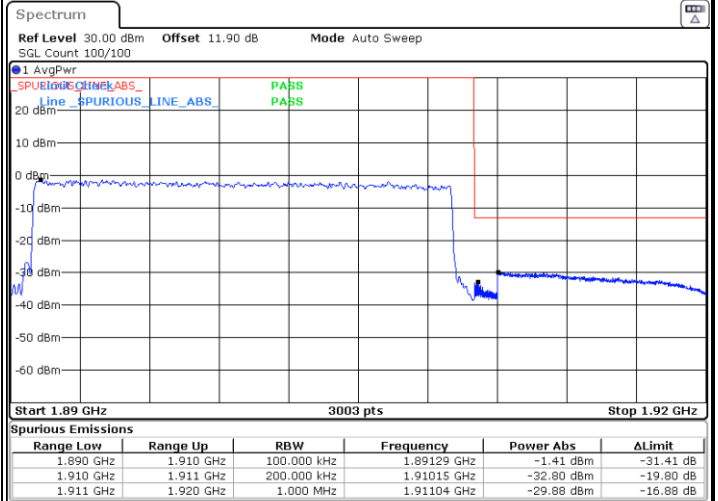
LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:33:34

Highest Band Edge / Full RB



Date: 1.AUG.2023 06:35:16

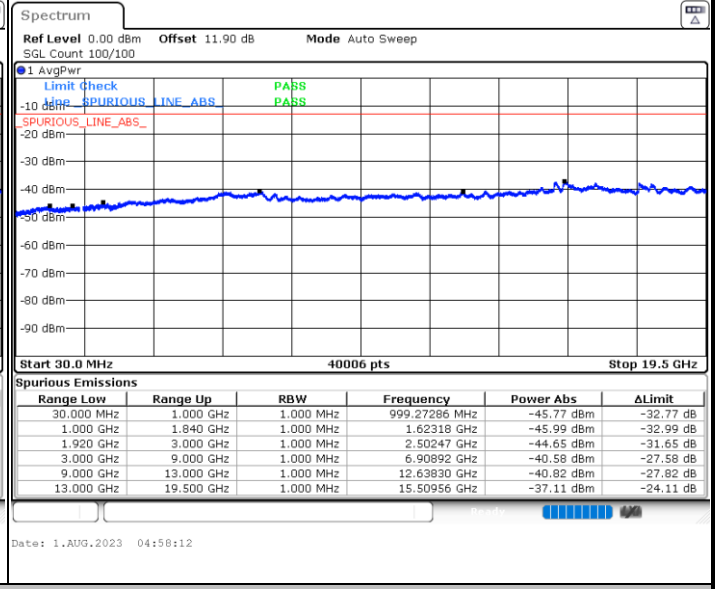
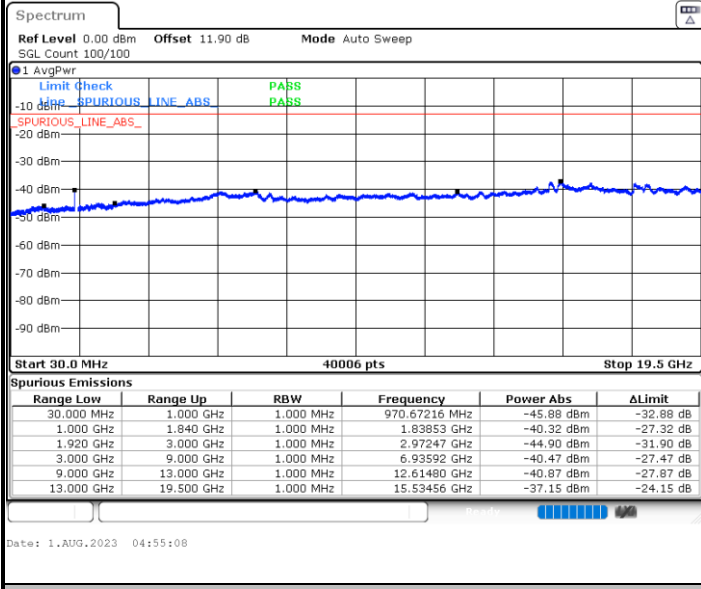


Conducted Spurious Emission

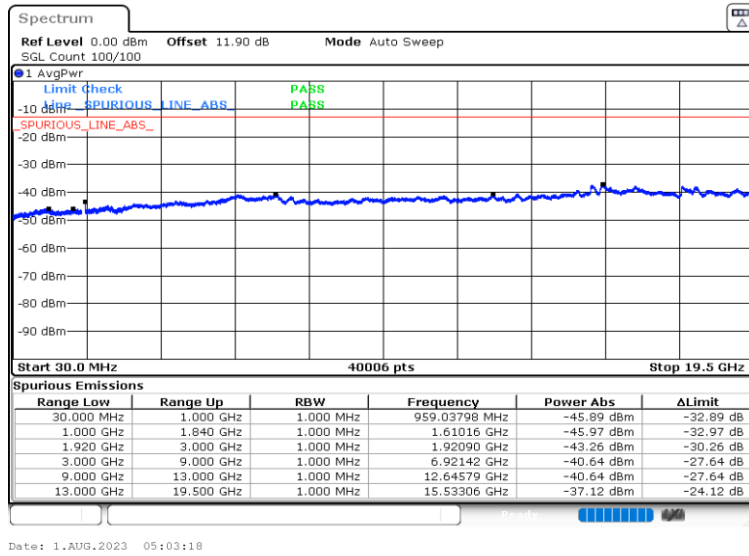
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

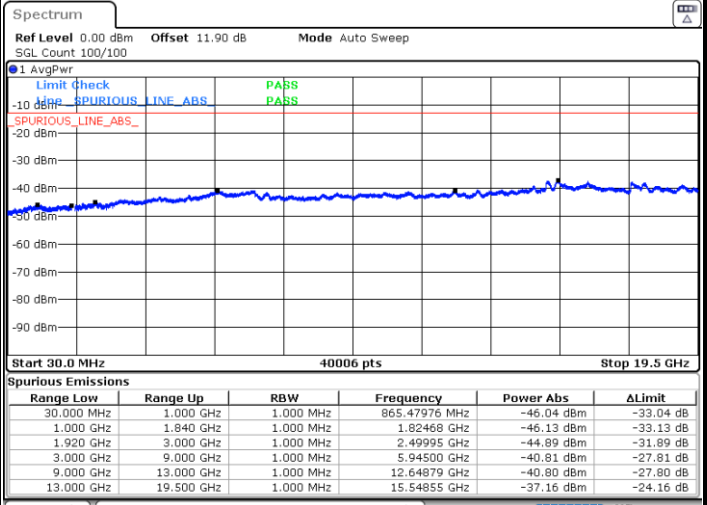
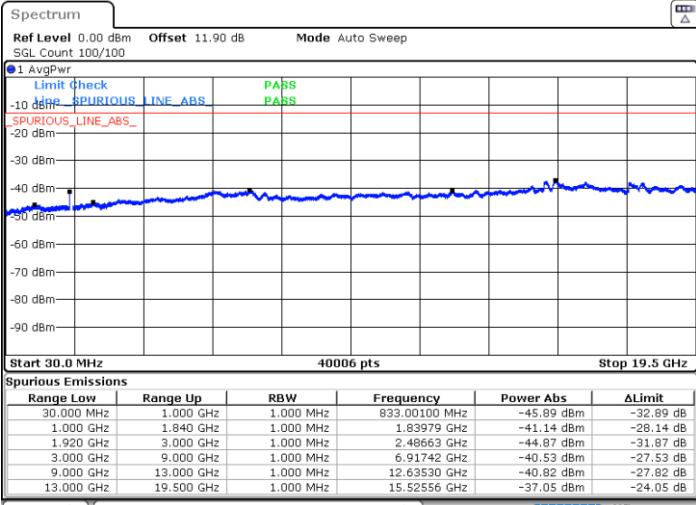




LTE Band 2 / 3MHz

Lowest Channel / QPSK

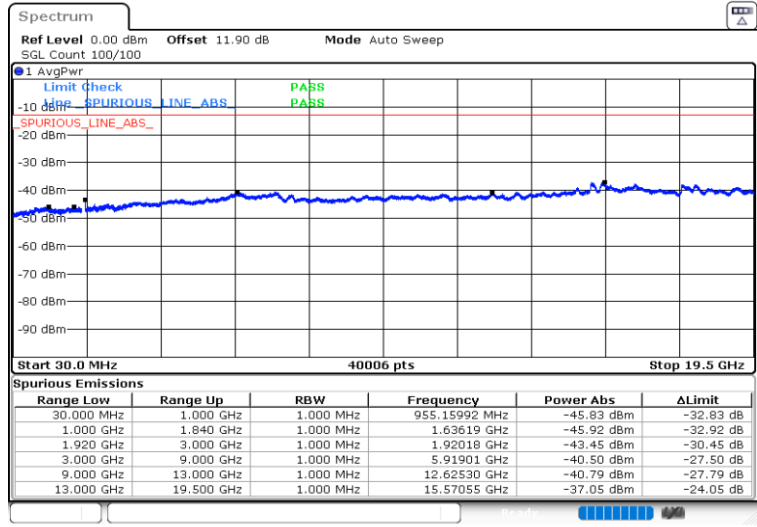
Middle Channel / QPSK



Date: 1.AUG.2023 05:10:20

Date: 1.AUG.2023 05:11:28

Highest Channel / QPSK



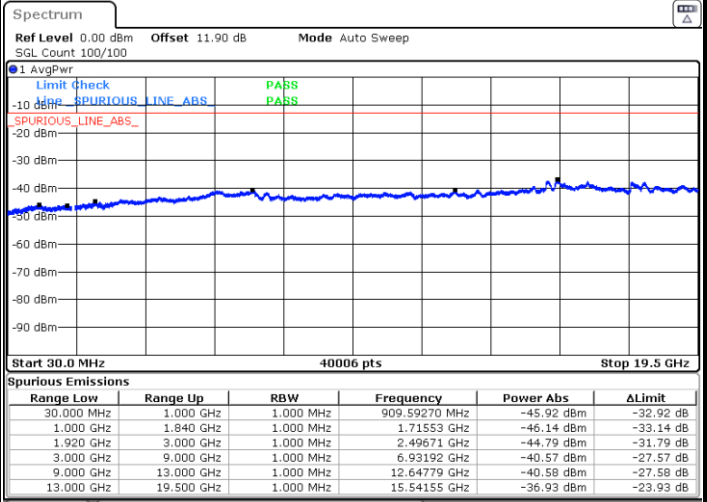
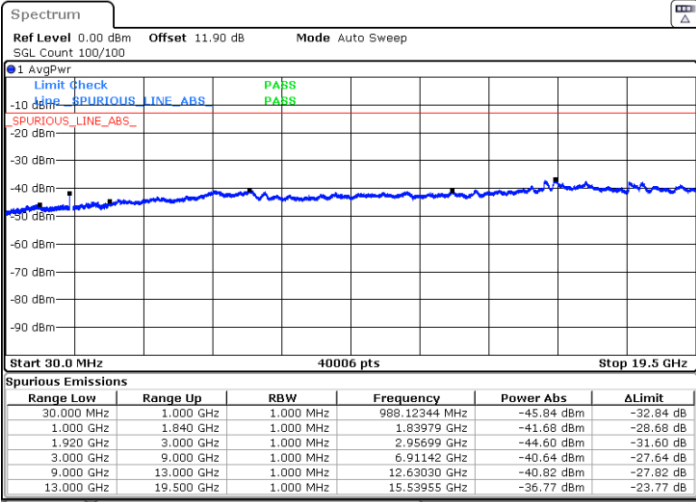
Date: 1.AUG.2023 05:12:36



LTE Band 2 / 5MHz

Lowest Channel / QPSK

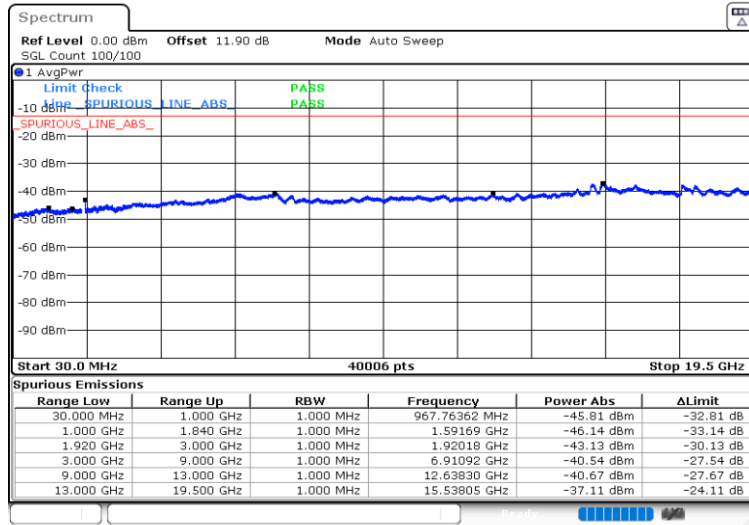
Middle Channel / QPSK



Date: 1.AUG.2023 05:27:59

Date: 1.AUG.2023 05:29:07

Highest Channel / QPSK

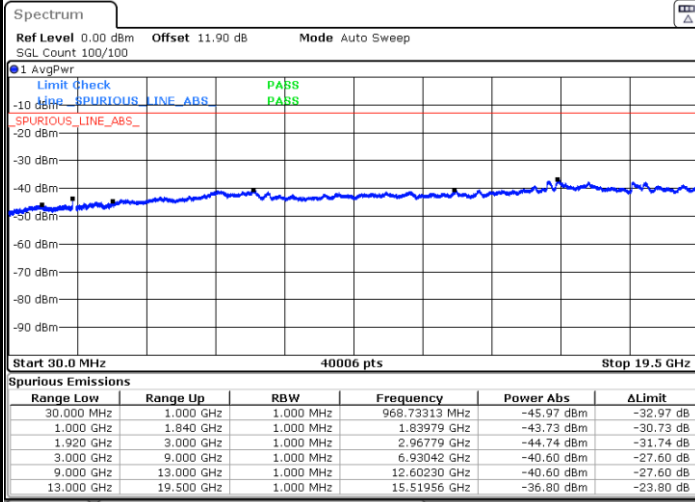


Date: 1.AUG.2023 05:30:15



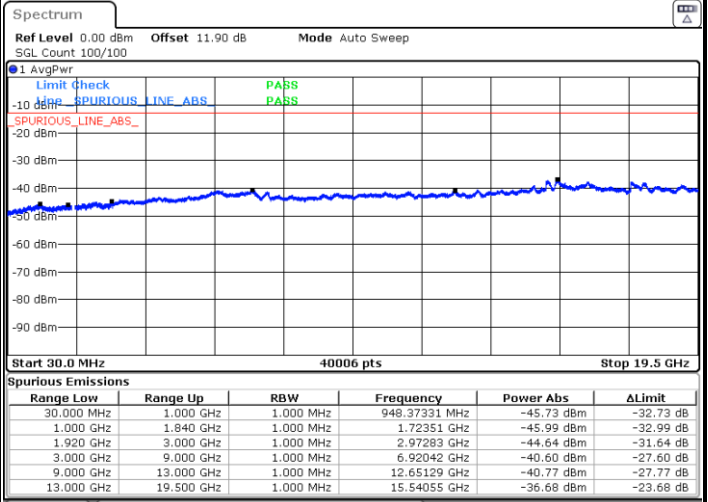
LTE Band 2 / 10MHz

Lowest Channel / QPSK



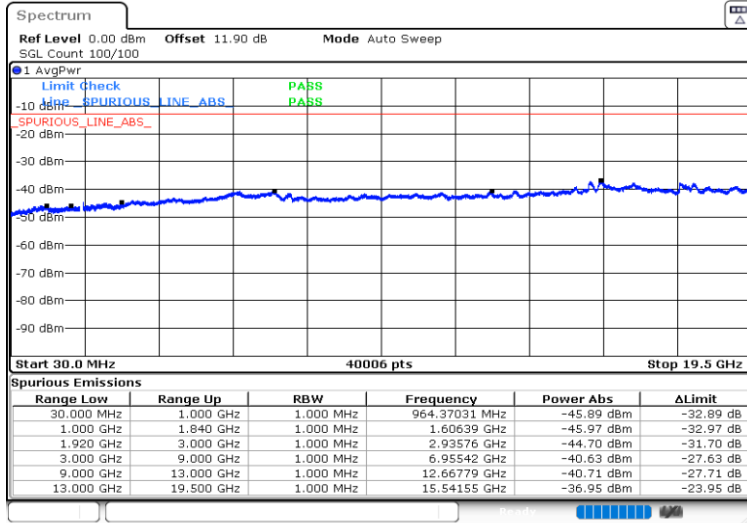
Date: 1.AUG.2023 05:38:16

Middle Channel / QPSK



Date: 1.AUG.2023 05:39:24

Highest Channel / QPSK



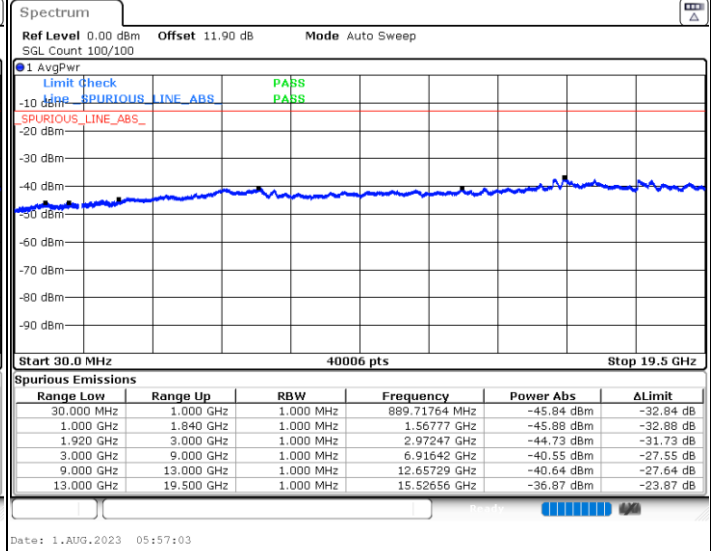
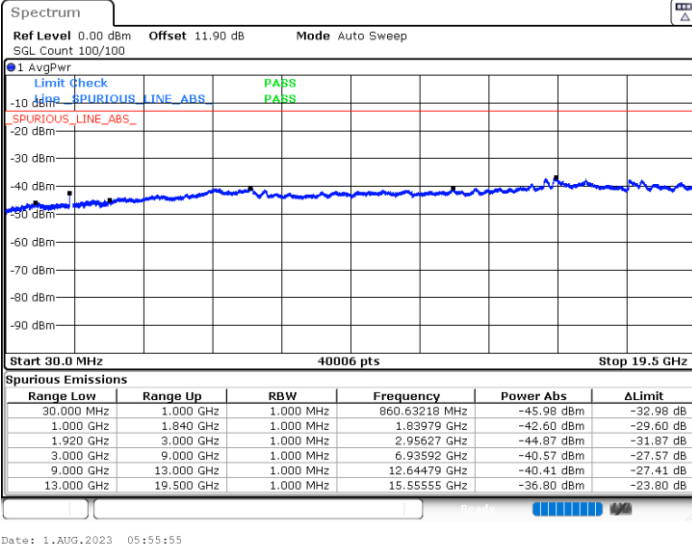
Date: 1.AUG.2023 05:40:33



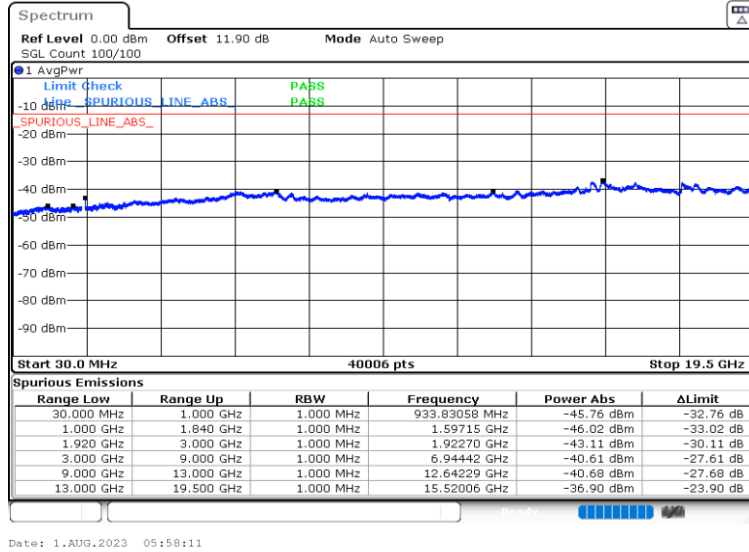
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

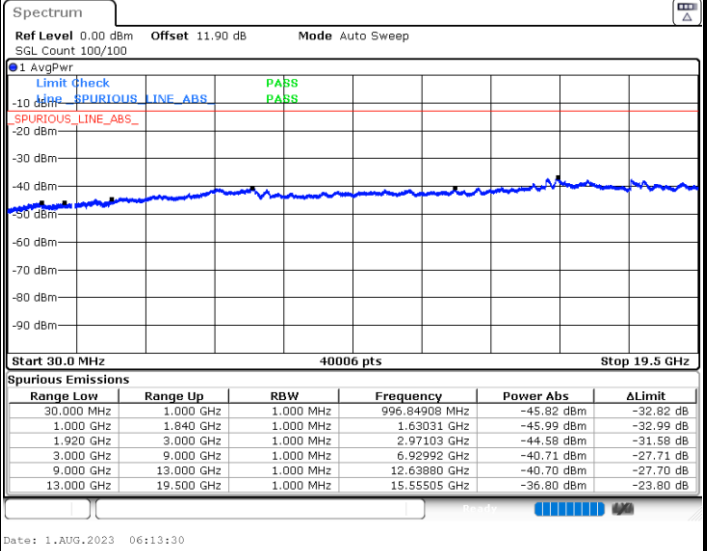
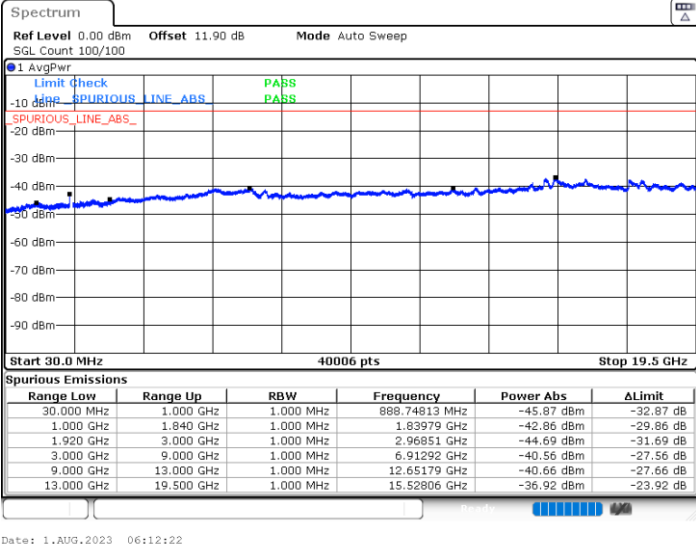




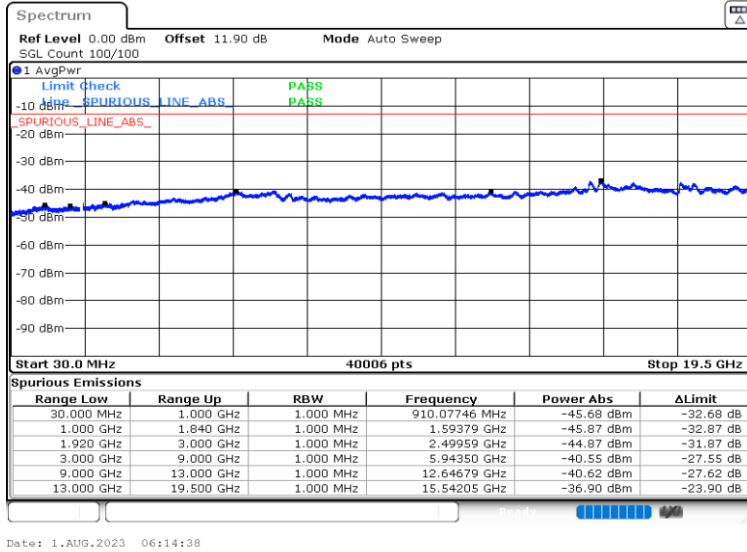
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

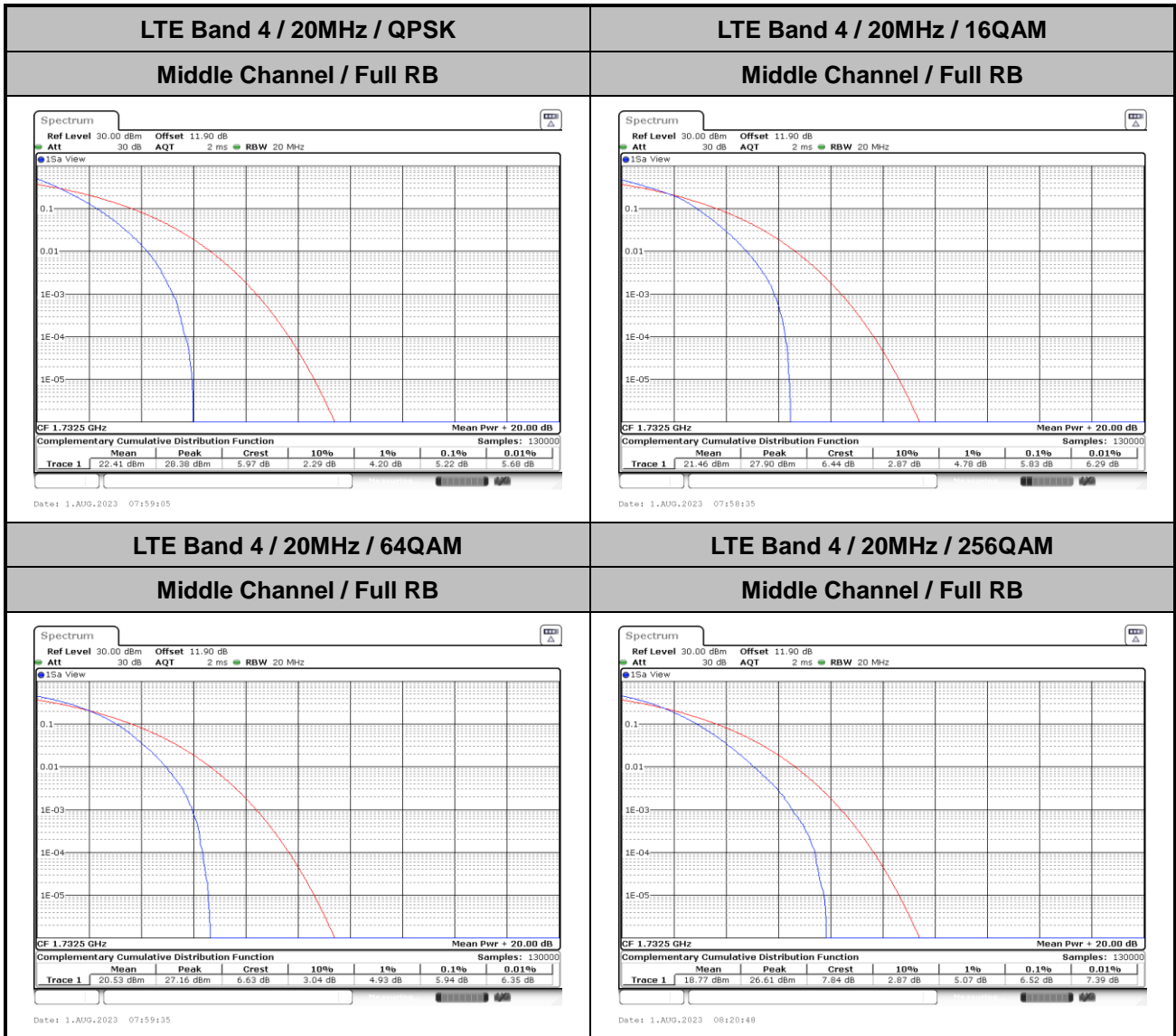
1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.22	5.83	5.94	6.52	PASS





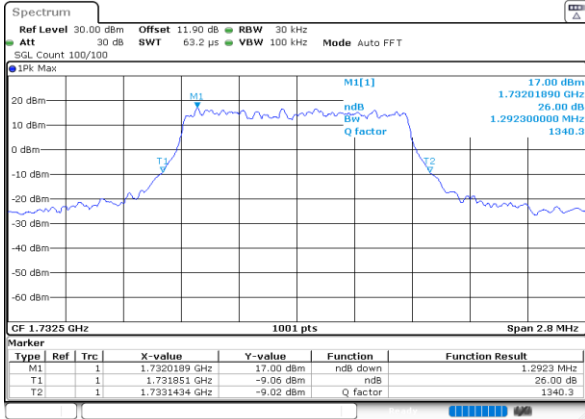
26dB Bandwidth

Mode	LTE Band 4 : 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	1.29	1.35	3.15	3.09	5.07	5.17	9.77	9.67	14.24	15.02	19.30	19.74
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.30	1.31	3.03	3.16	5.14	5.14	9.75	9.73	14.45	15.08	19.14	19.38



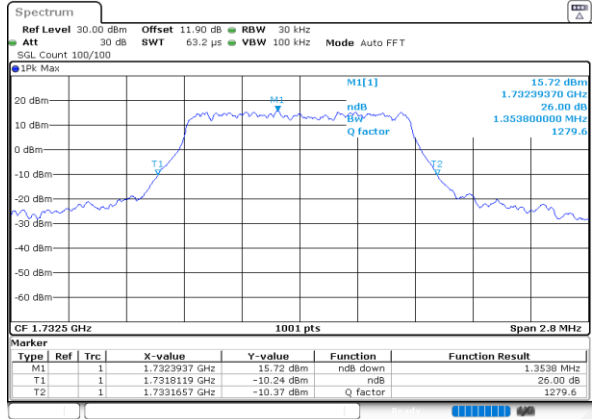
LTE Band 4

Middle Channel / 1.4MHz / QPSK



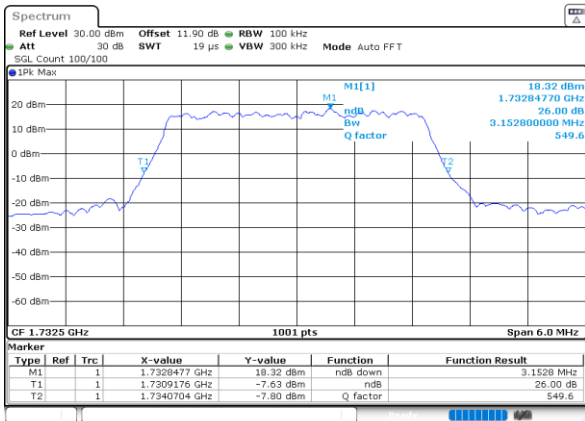
Date: 1.AUG.2023 06:44:22

Middle Channel / 1.4MHz / 16QAM



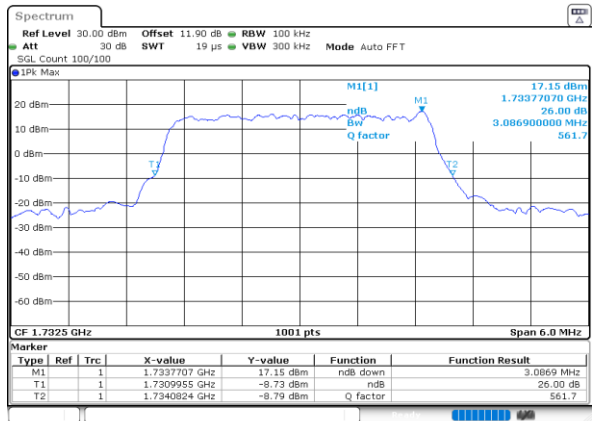
Date: 1.AUG.2023 06:44:51

Middle Channel / 3MHz / QPSK



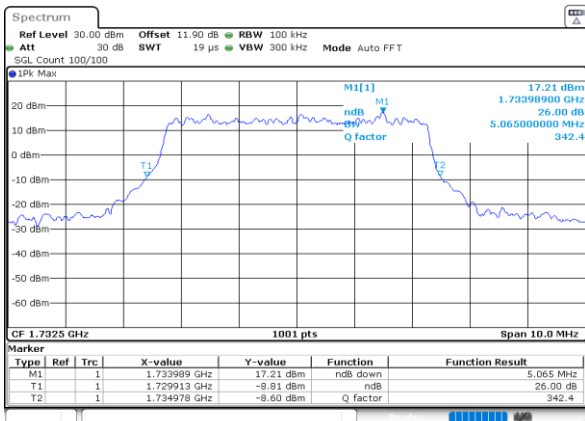
Date: 1.AUG.2023 07:10:137

Middle Channel / 3MHz / 16QAM



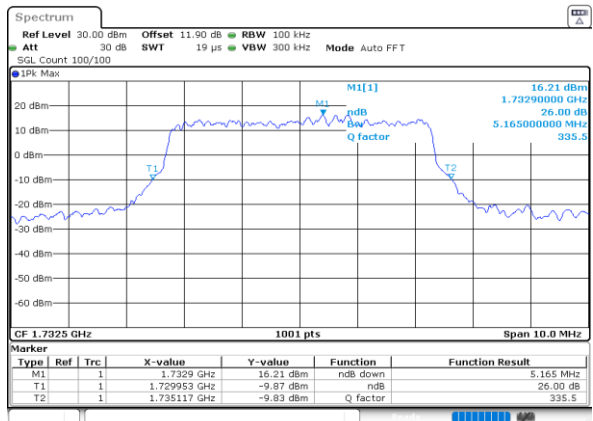
Date: 1.AUG.2023 07:10:166

Middle Channel / 5MHz / QPSK



Date: 1.AUG.2023 07:19:123

Middle Channel / 5MHz / 16QAM

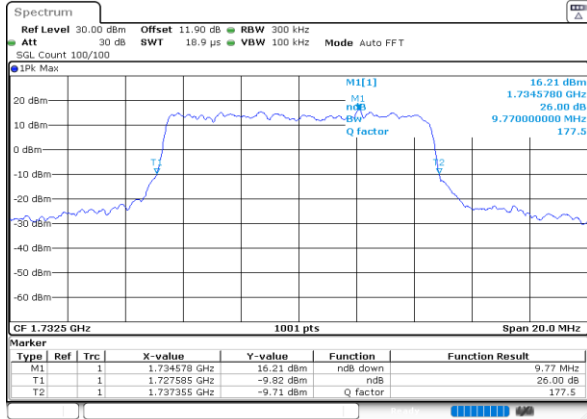


Date: 1.AUG.2023 07:19:51



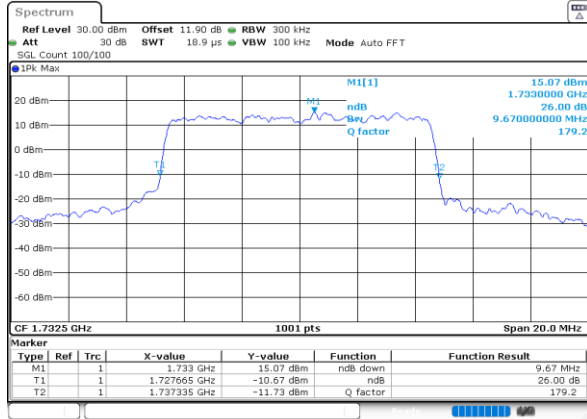
LTE Band 4

Middle Channel / 10MHz / QPSK



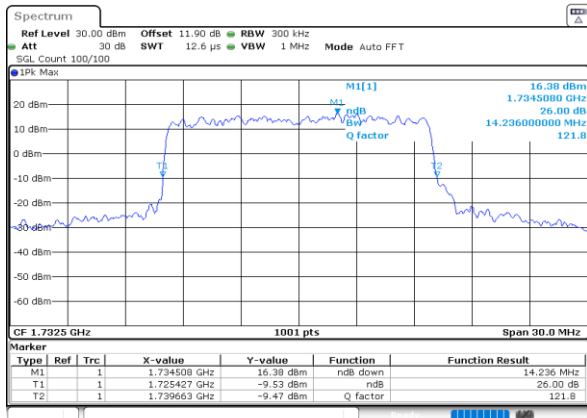
Date: 1.AUG.2023 07:25:12

Middle Channel / 10MHz / 16QAM



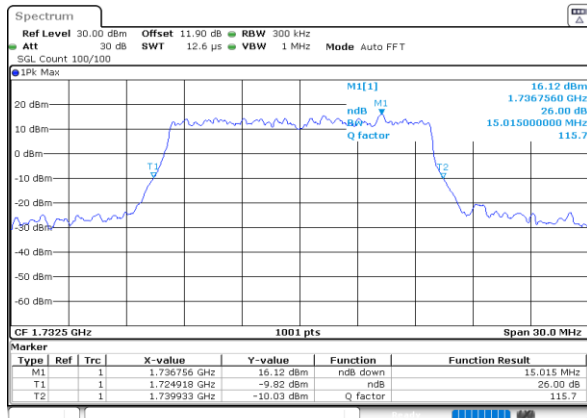
Date: 1.AUG.2023 07:25:50

Middle Channel / 15MHz / QPSK



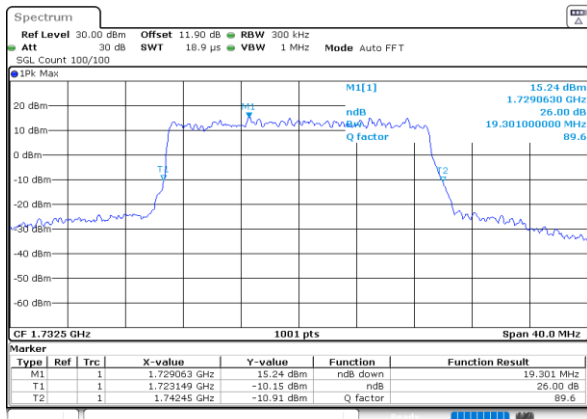
Date: 1.AUG.2023 07:37:26

Middle Channel / 15MHz / 16QAM



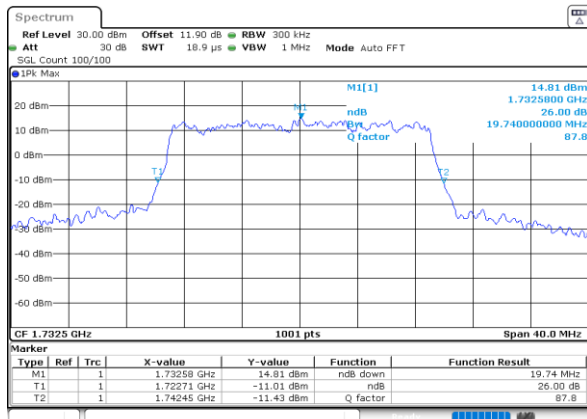
Date: 1.AUG.2023 07:37:54

Middle Channel / 20MHz / QPSK



Date: 1.AUG.2023 07:49:31

Middle Channel / 20MHz / 16QAM

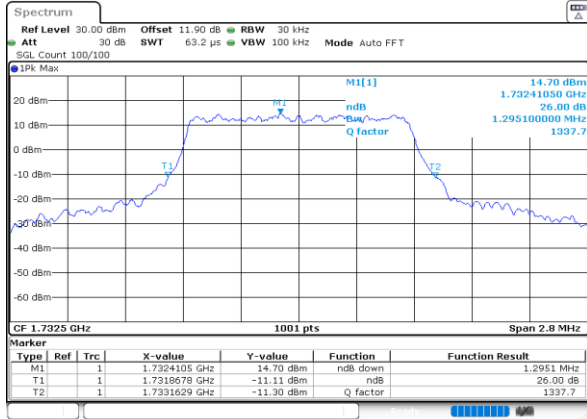


Date: 1.AUG.2023 07:49:59



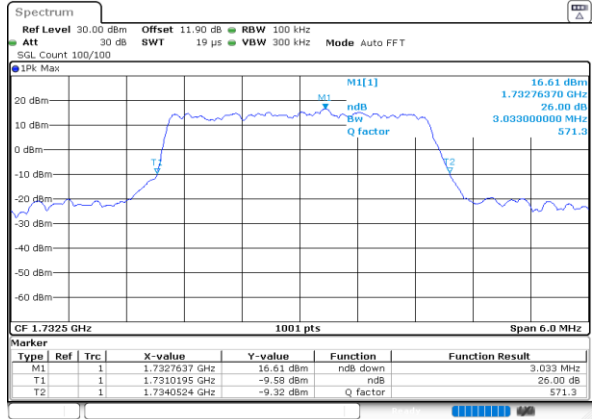
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



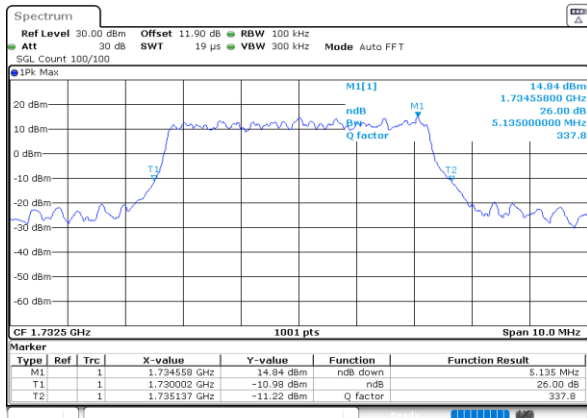
Date: 1.AUG.2023 06:53:48

Middle Channel / 3MHz / 64QAM



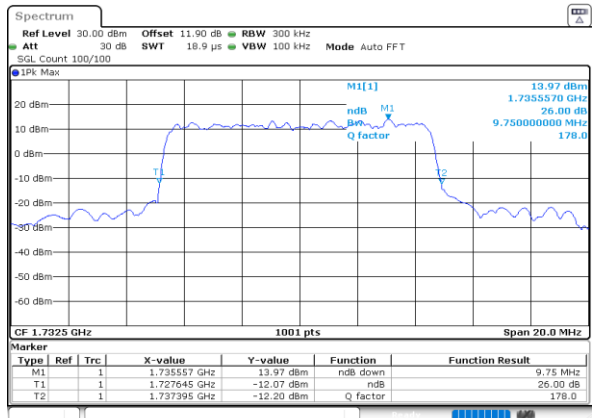
Date: 1.AUG.2023 07:08:47

Middle Channel / 5MHz / 64QAM



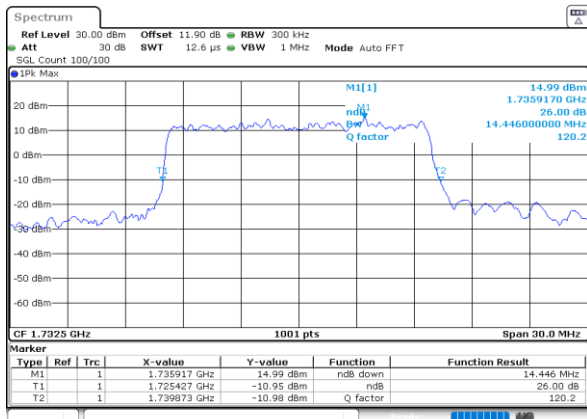
Date: 1.AUG.2023 07:11:33

Middle Channel / 10MHz / 64QAM



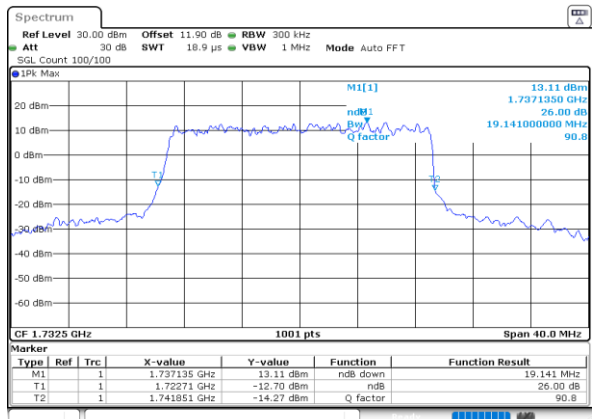
Date: 1.AUG.2023 07:29:31

Middle Channel / 15MHz / 64QAM



Date: 1.AUG.2023 07:45:00

Middle Channel / 20MHz / 64QAM

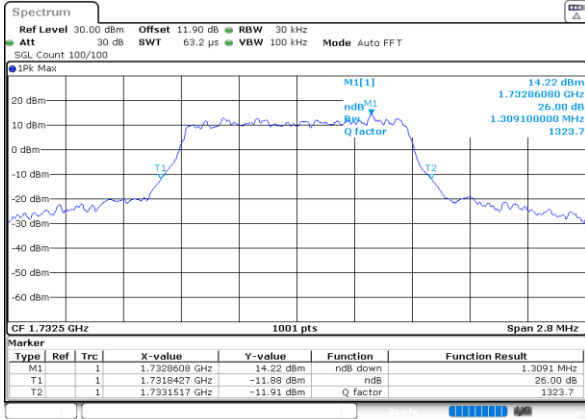


Date: 1.AUG.2023 07:57:06



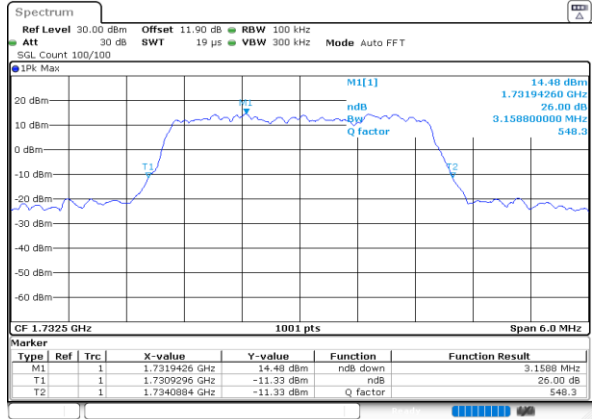
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



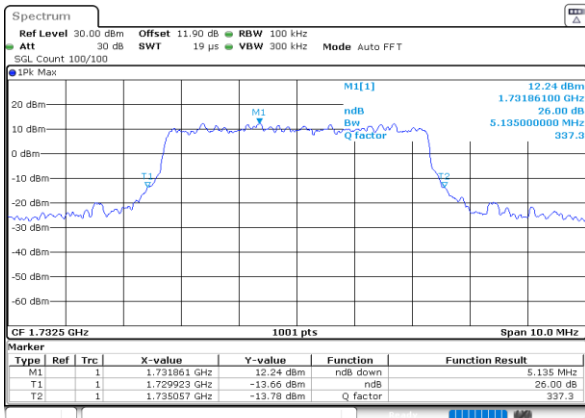
Date: 1.AUG.2023 08:10:25

Middle Channel / 3MHz / 256QAM



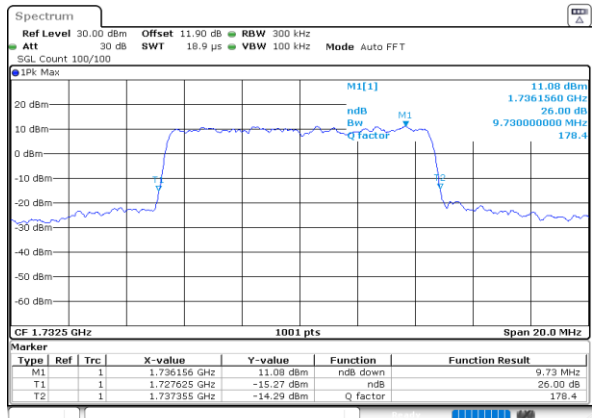
Date: 1.AUG.2023 08:10:12

Middle Channel / 5MHz / 256QAM



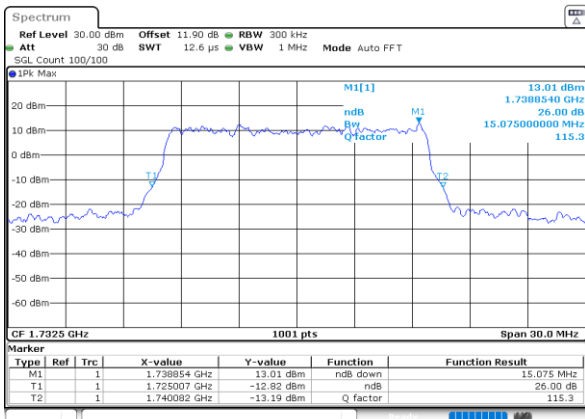
Date: 1.AUG.2023 08:11:59

Middle Channel / 10MHz / 256QAM



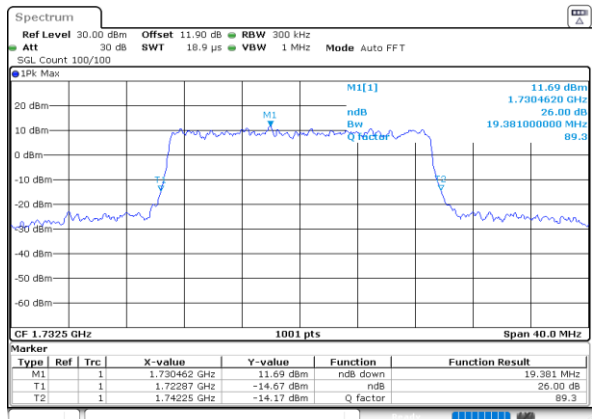
Date: 1.AUG.2023 08:13:46

Middle Channel / 15MHz / 256QAM



Date: 1.AUG.2023 08:16:32

Middle Channel / 20MHz / 256QAM



Date: 1.AUG.2023 08:19:19



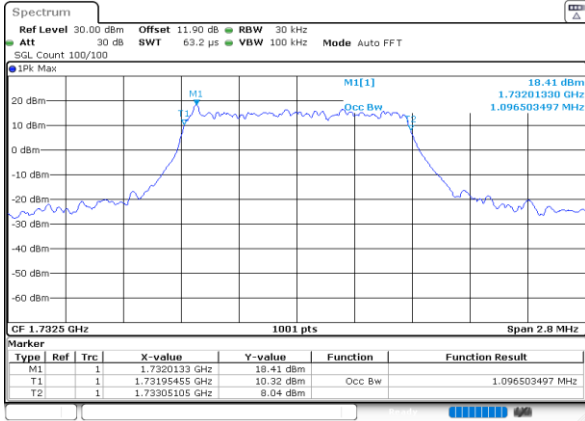
Occupied Bandwidth

Mode	LTE Band 4 : 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	1.10	1.10	2.72	2.72	4.55	4.53	9.09	9.07	13.43	13.37	17.90	17.90
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.10	1.10	2.72	2.74	4.53	4.50	9.05	9.07	13.49	13.43	17.86	17.94



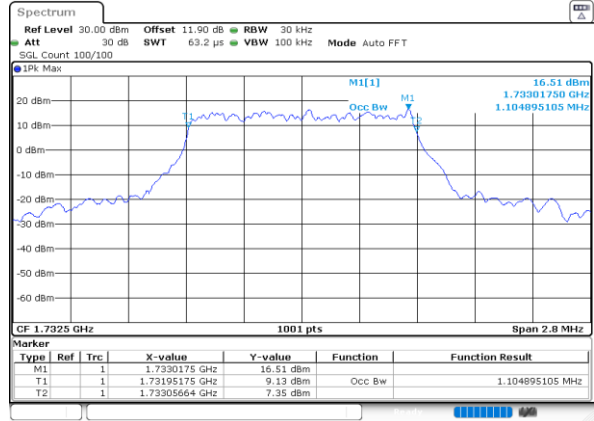
LTE Band 4

Middle Channel / 1.4MHz / QPSK



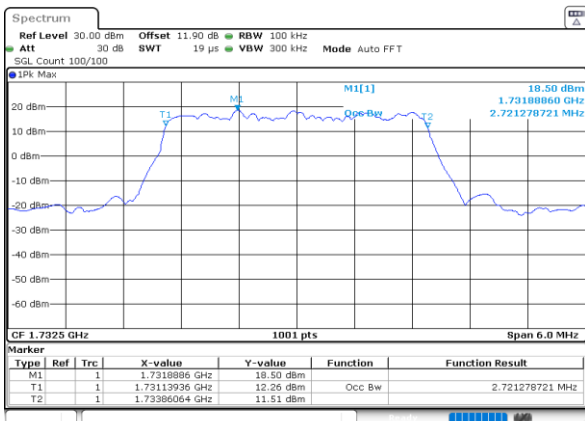
Date: 1.AUG.2023 06:43:25

Middle Channel / 1.4MHz / 16QAM



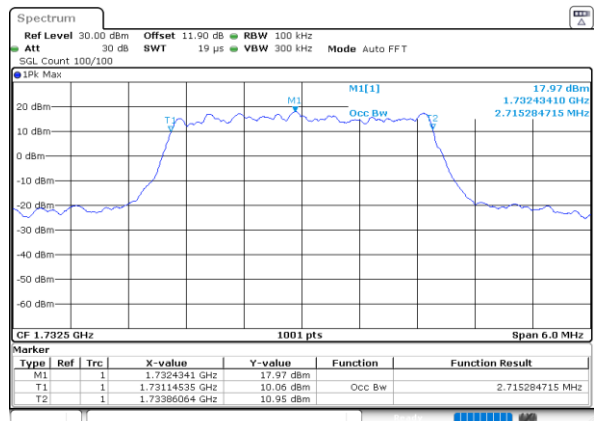
Date: 1.AUG.2023 06:43:53

Middle Channel / 3MHz / QPSK



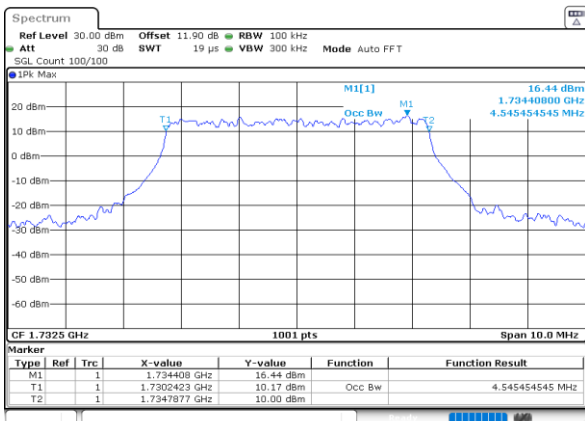
Date: 1.AUG.2023 07:00:14

Middle Channel / 3MHz / 16QAM



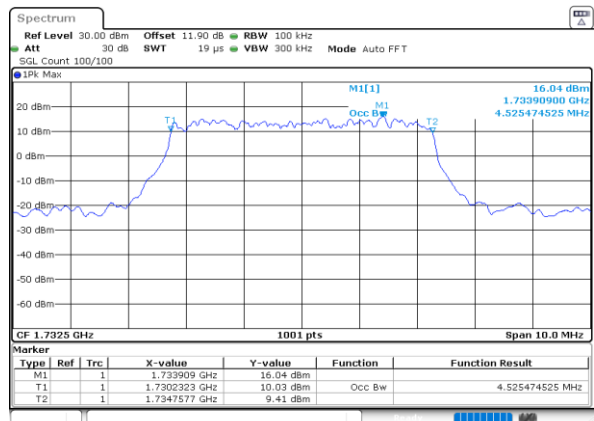
Date: 1.AUG.2023 07:00:43

Middle Channel / 5MHz / QPSK



Date: 1.AUG.2023 07:18:25

Middle Channel / 5MHz / 16QAM

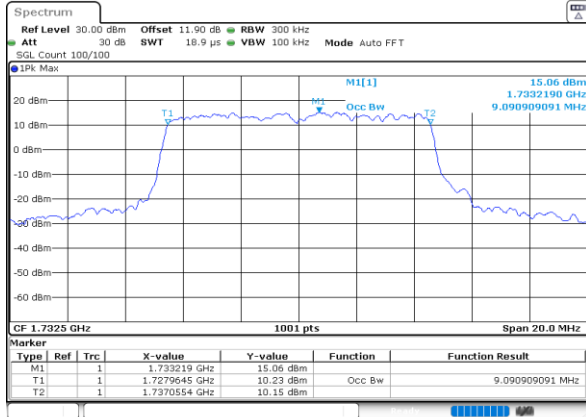


Date: 1.AUG.2023 07:18:54



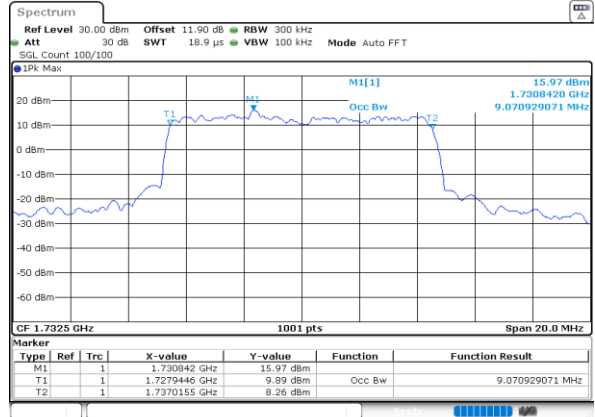
LTE Band 4

Middle Channel / 10MHz / QPSK



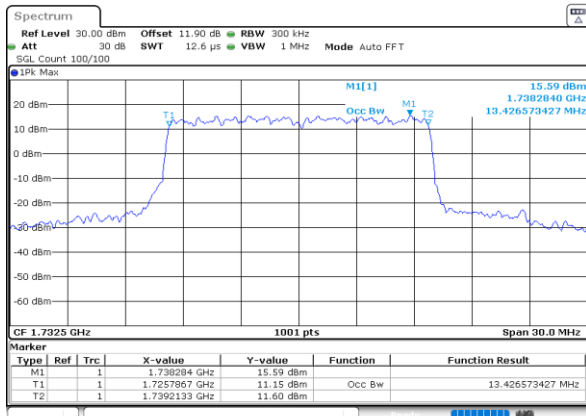
Date: 1.AUG.2023 07:24:23

Middle Channel / 10MHz / 16QAM



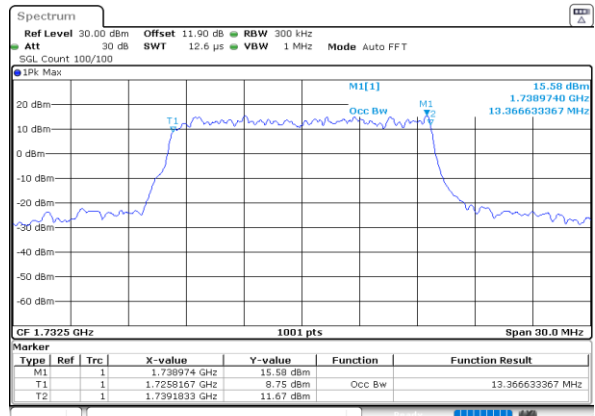
Date: 1.AUG.2023 07:24:52

Middle Channel / 15MHz / QPSK



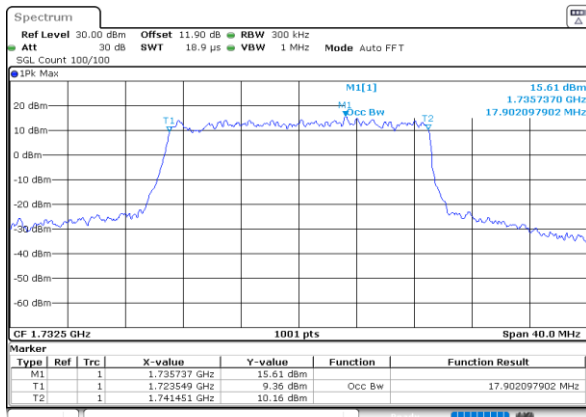
Date: 1.AUG.2023 07:36:28

Middle Channel / 15MHz / 16QAM



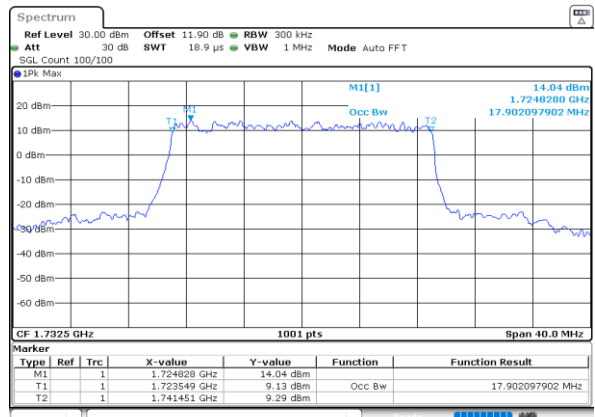
Date: 1.AUG.2023 07:36:57

Middle Channel / 20MHz / QPSK



Date: 1.AUG.2023 07:48:33

Middle Channel / 20MHz / 16QAM

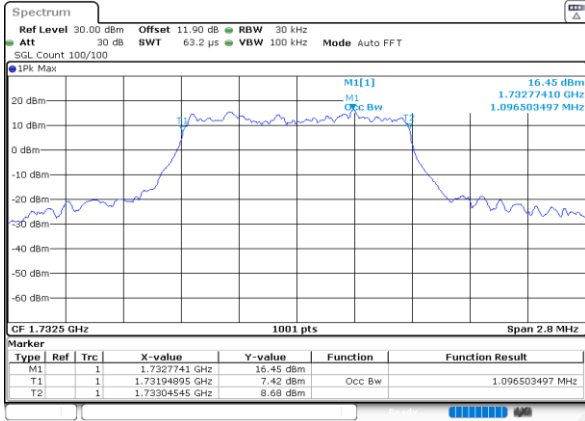


Date: 1.AUG.2023 07:49:02



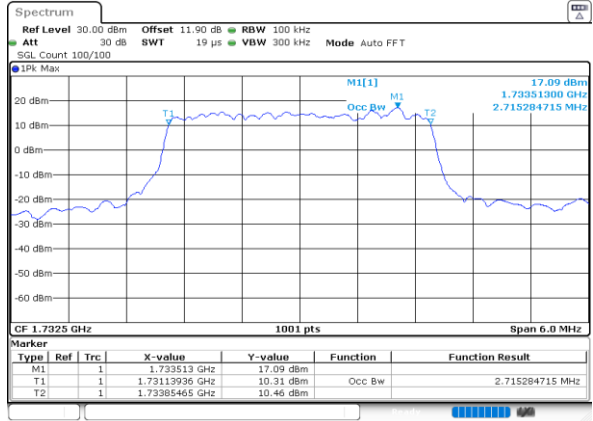
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



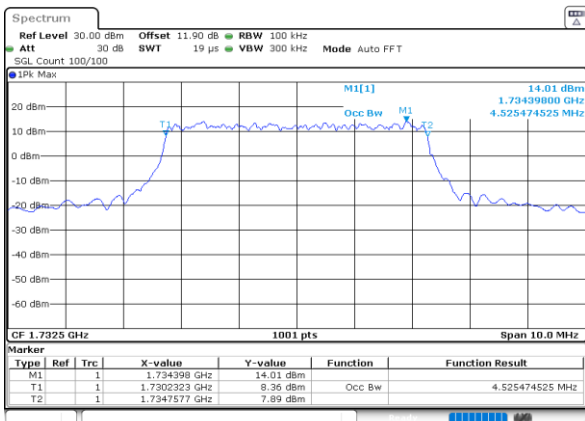
Date: 1.AUG.2023 06:53:34

Middle Channel / 3MHz / 64QAM



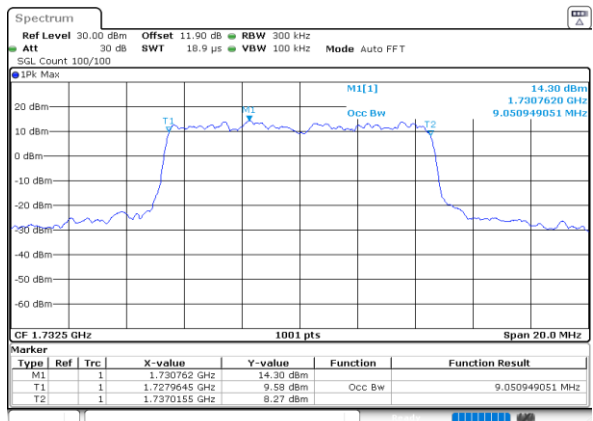
Date: 1.AUG.2023 07:08:33

Middle Channel / 5MHz / 64QAM



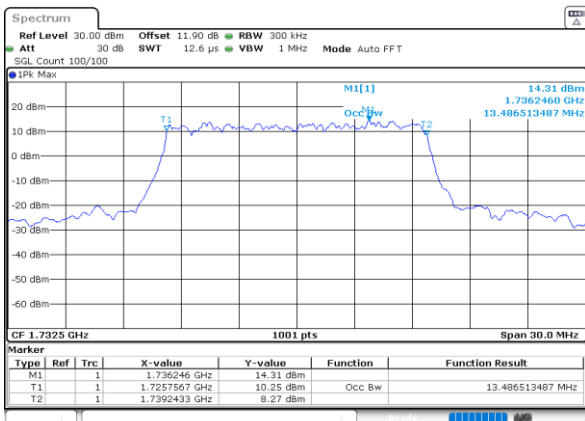
Date: 1.AUG.2023 07:11:19

Middle Channel / 10MHz / 64QAM



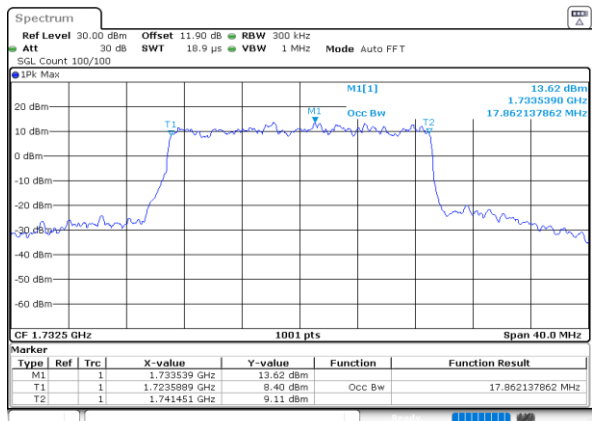
Date: 1.AUG.2023 07:29:17

Middle Channel / 15MHz / 64QAM



Date: 1.AUG.2023 07:44:46

Middle Channel / 20MHz / 64QAM

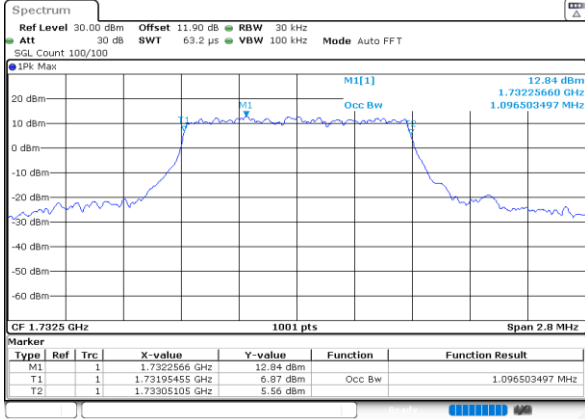


Date: 1.AUG.2023 07:56:52



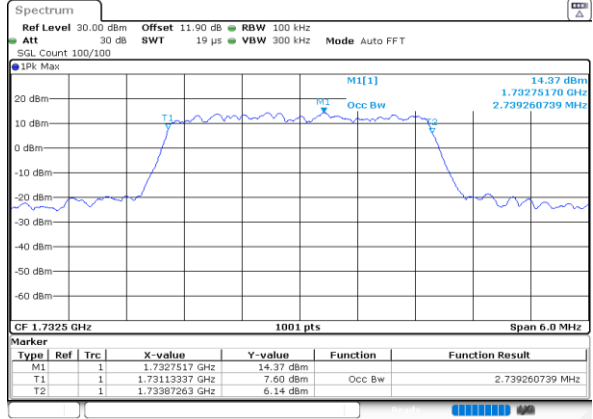
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



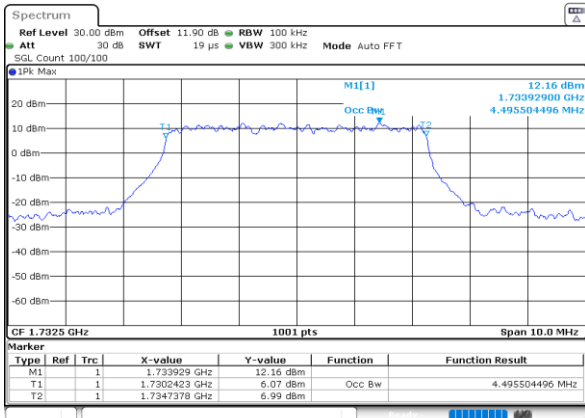
Date: 1.AUG.2023 08:04:11

Middle Channel / 3MHz / 256QAM



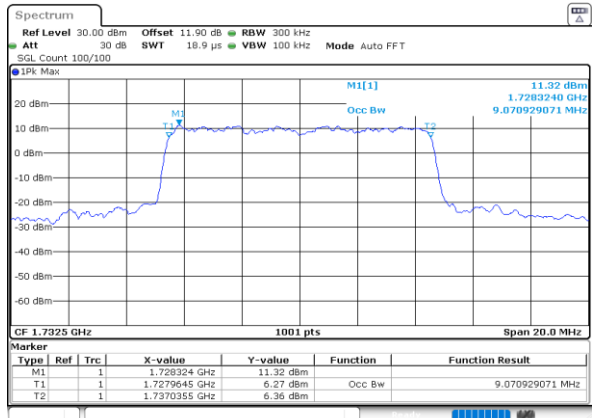
Date: 1.AUG.2023 08:07:58

Middle Channel / 5MHz / 256QAM



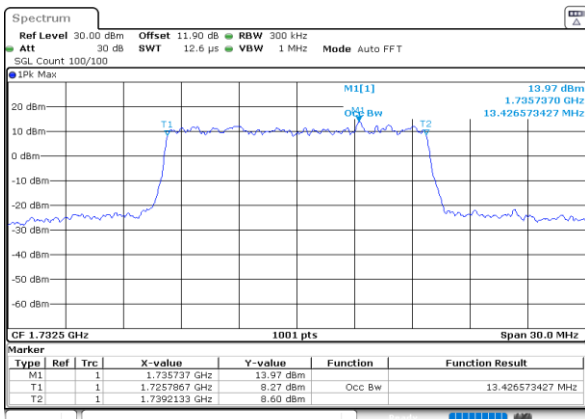
Date: 1.AUG.2023 08:10:45

Middle Channel / 10MHz / 256QAM



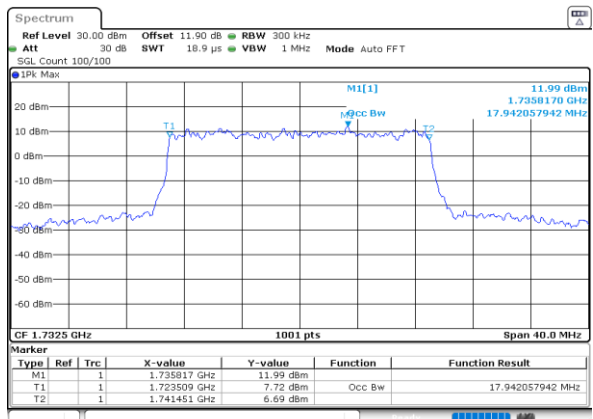
Date: 1.AUG.2023 08:13:32

Middle Channel / 15MHz / 256QAM



Date: 1.AUG.2023 08:16:18

Middle Channel / 20MHz / 256QAM



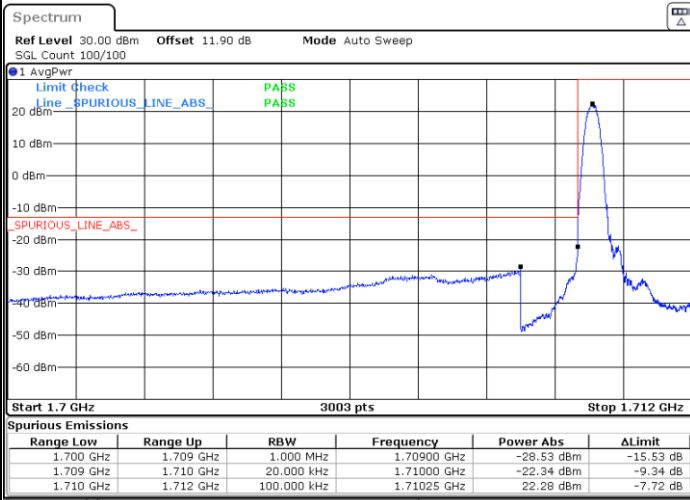
Date: 1.AUG.2023 08:19:05



Conducted Band Edge

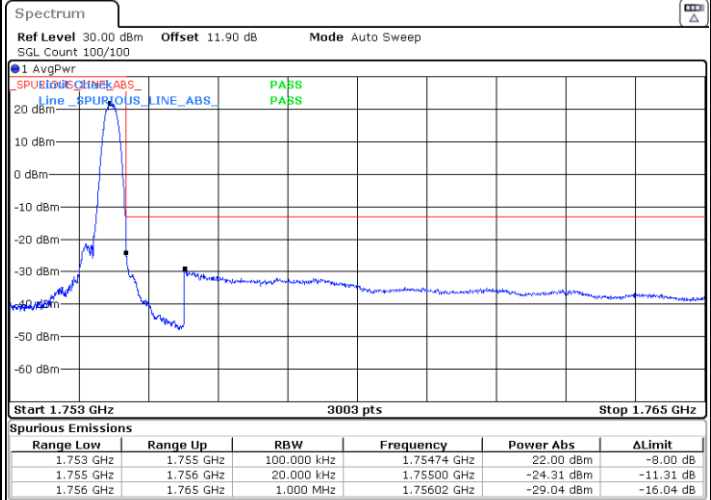
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



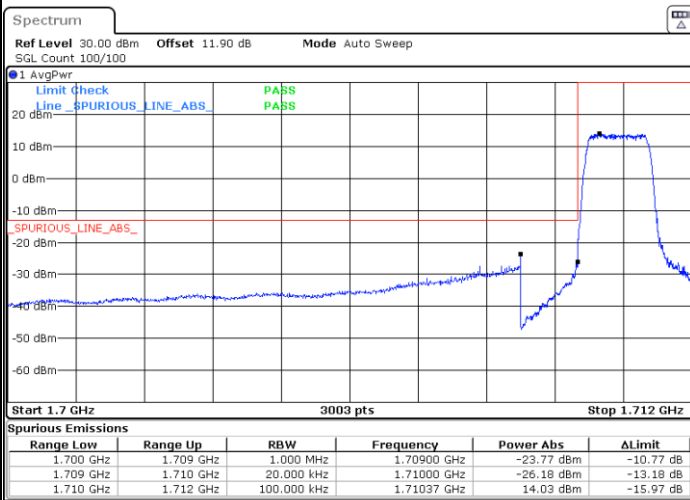
Date: 1.AUG.2023 06:38:46

Highest Band Edge / 1RB



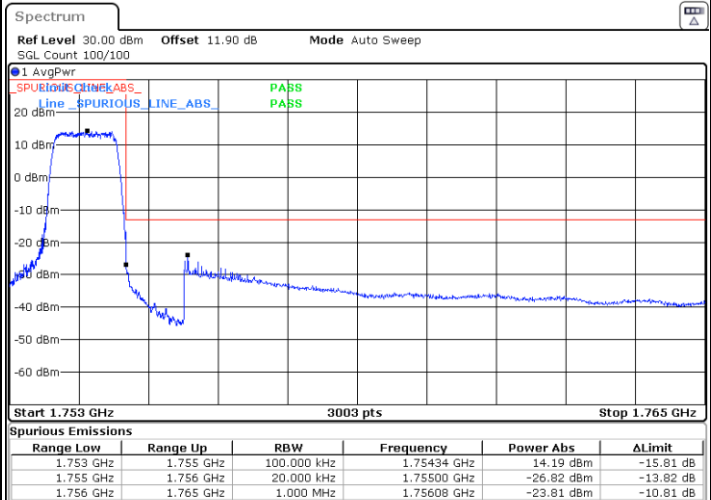
Date: 1.AUG.2023 06:46:57

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:40:46

Highest Band Edge / Full RB

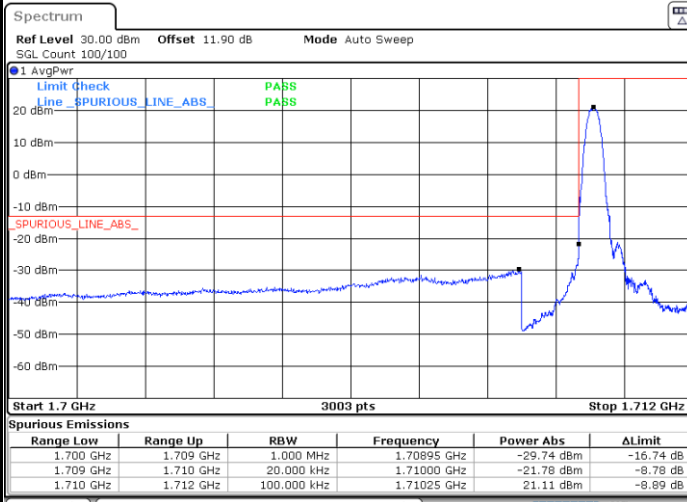


Date: 1.AUG.2023 06:48:56



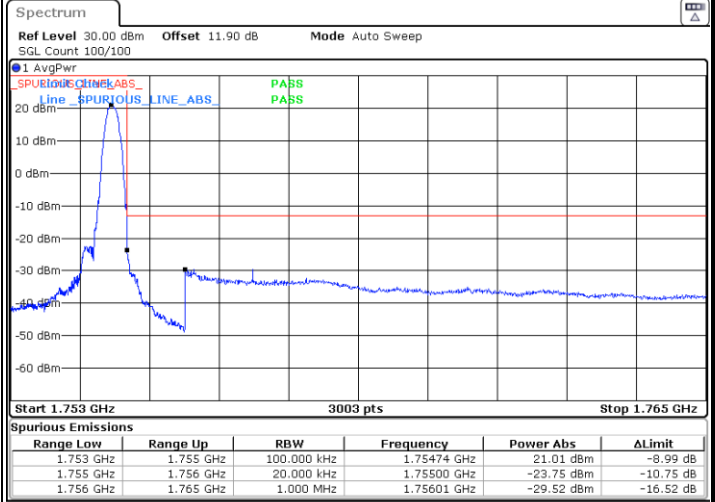
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



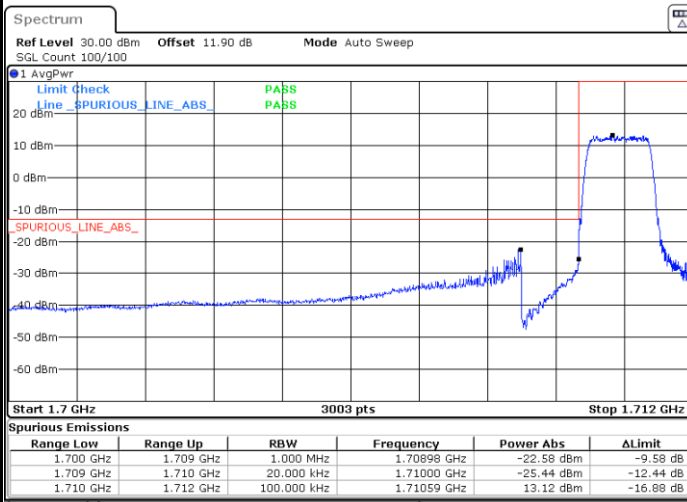
Date: 1.AUG.2023 06:39:46

Highest Band Edge / 1 RB



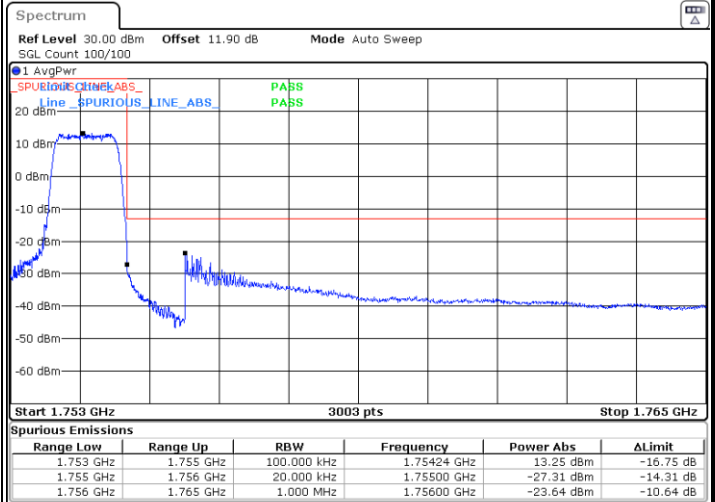
Date: 1.AUG.2023 06:47:56

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:41:46

Highest Band Edge / Full RB

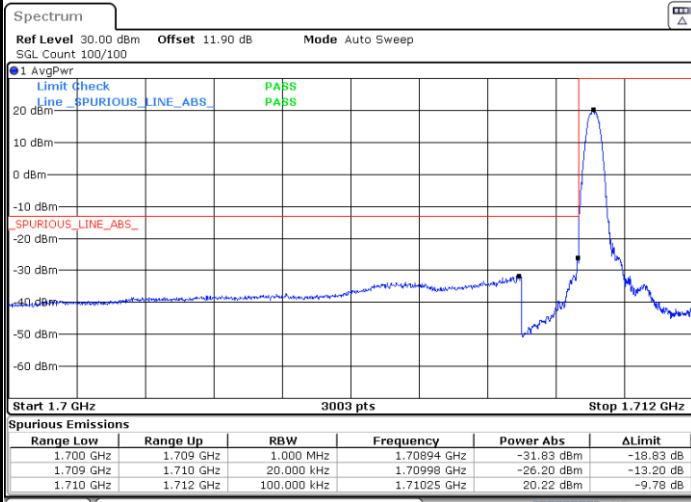


Date: 1.AUG.2023 06:49:55



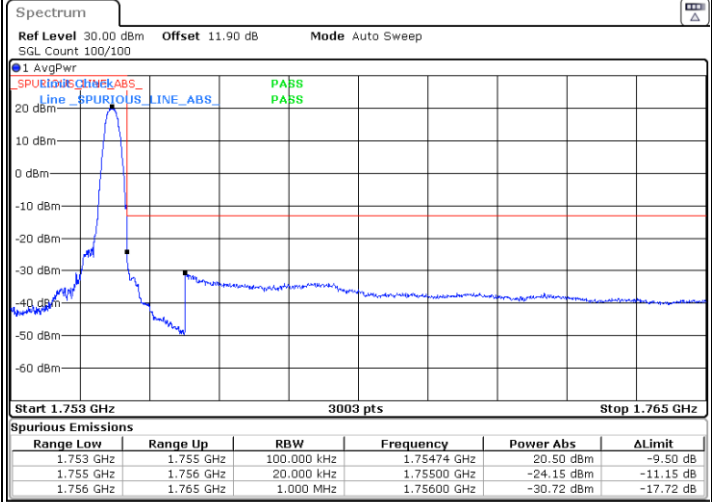
LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



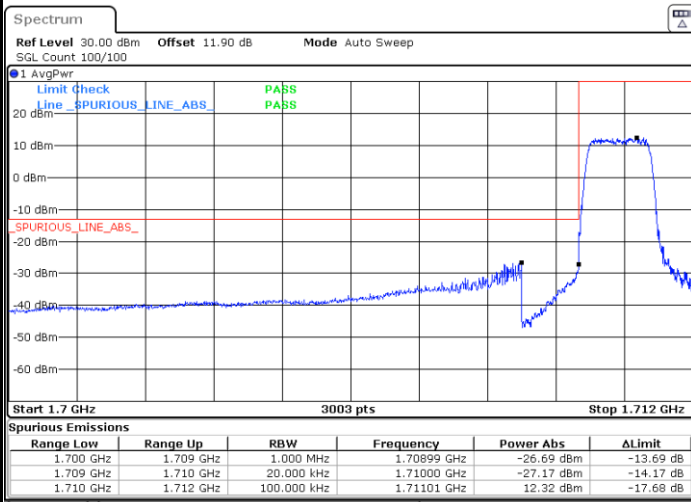
Date: 1.AUG.2023 06:52:04

Highest Band Edge / 1 RB



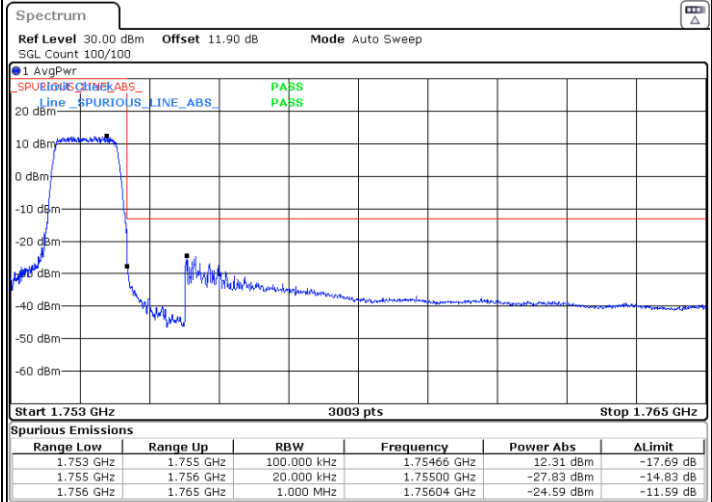
Date: 1.AUG.2023 06:54:46

Lowest Band Edge / Full RB



Date: 1.AUG.2023 06:53:04

Highest Band Edge / Full RB

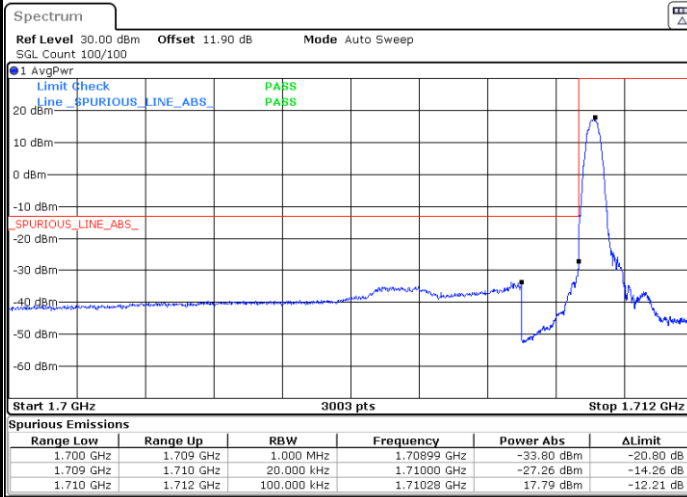


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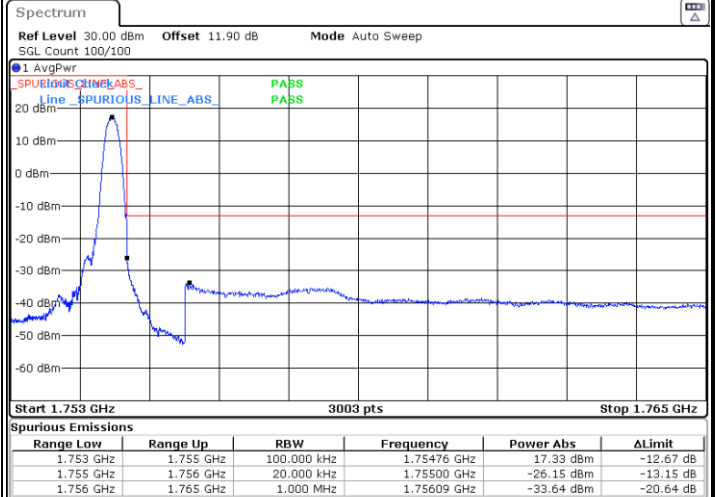
LTE Band 4 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



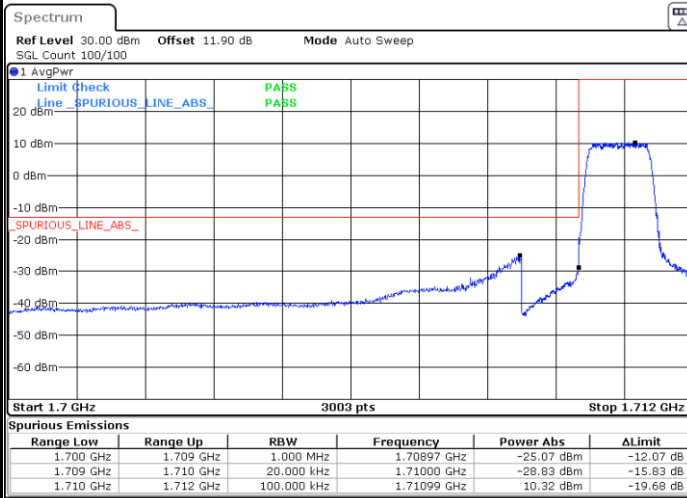
Date: 1.AUG.2023 08:00:39

Highest Band Edge / 1 RB



Date: 1.AUG.2023 08:05:24

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:01:42

Highest Band Edge / Full RB



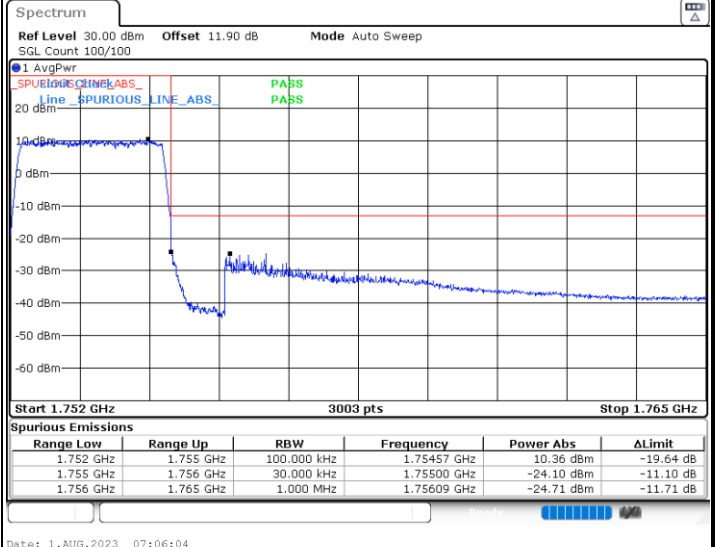
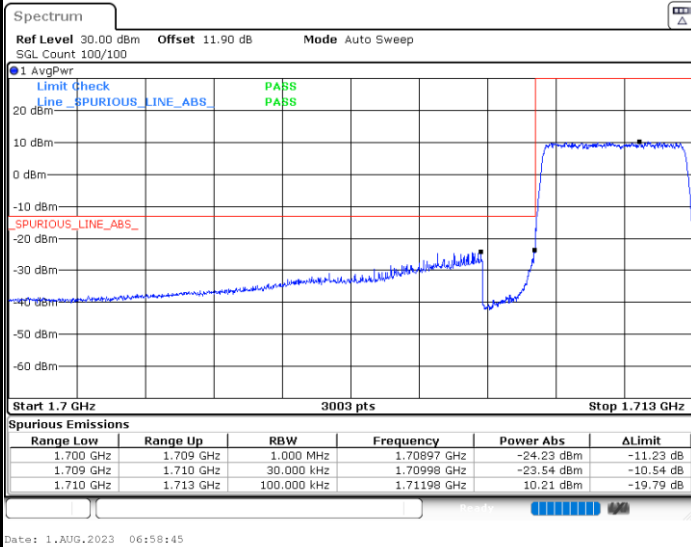
Date: 1.AUG.2023 08:06:23



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

