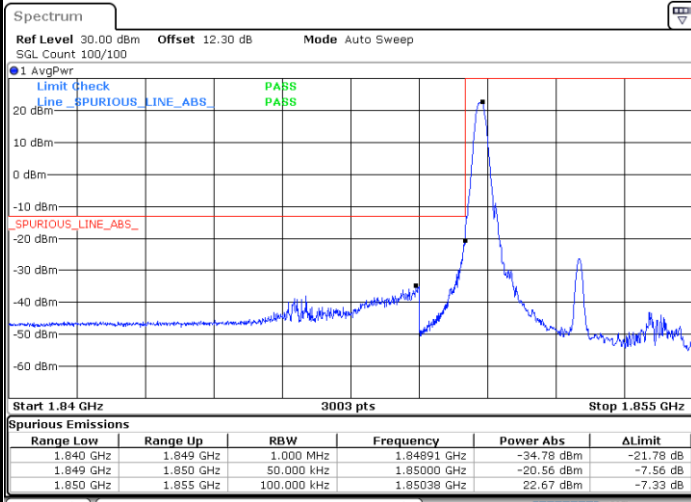




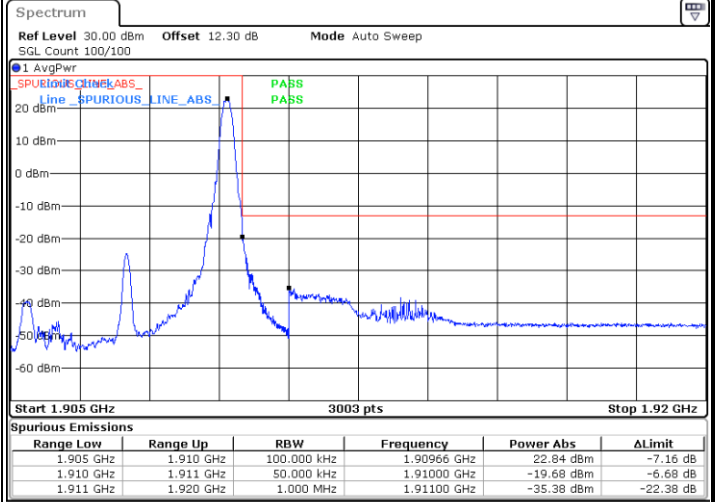
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



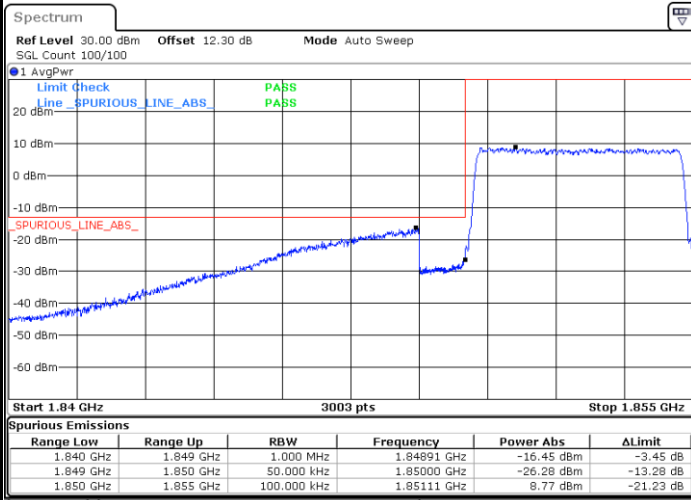
Date: 23.SEP.2022 11:07:04

Highest Band Edge / 1 RB



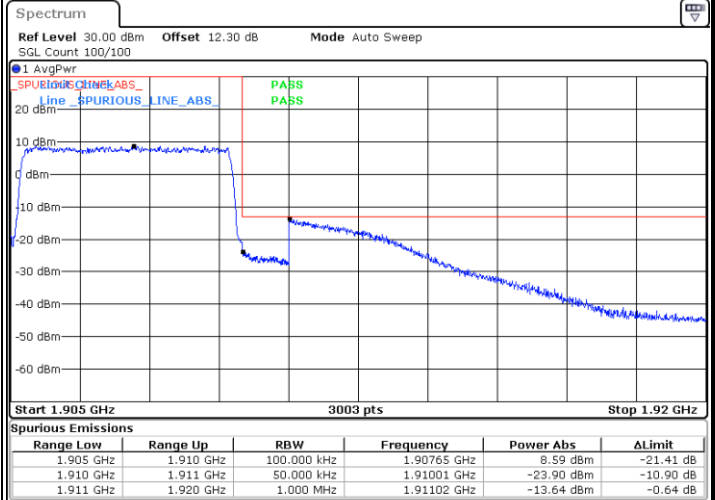
Date: 23.SEP.2022 11:15:56

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:09:02

Highest Band Edge / Full RB

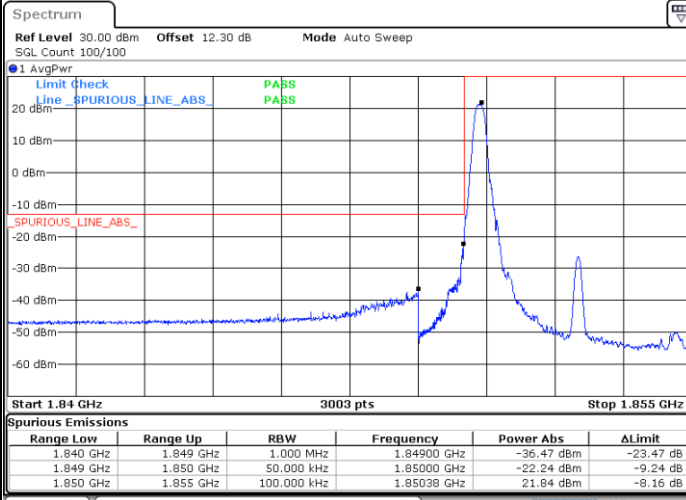


Date: 23.SEP.2022 11:17:54



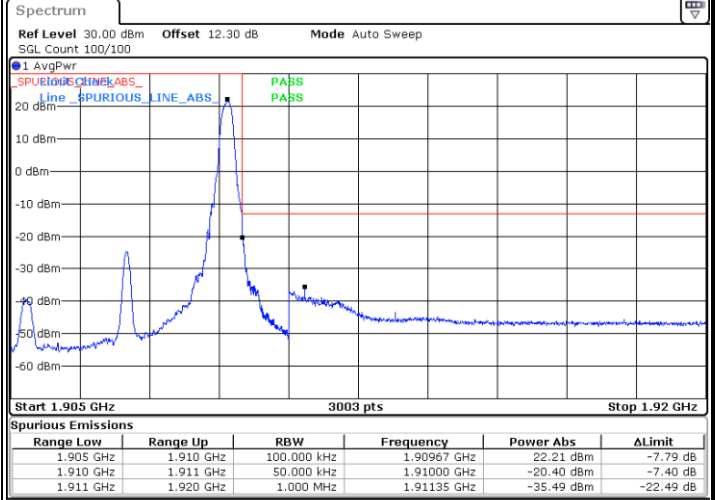
LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1RB



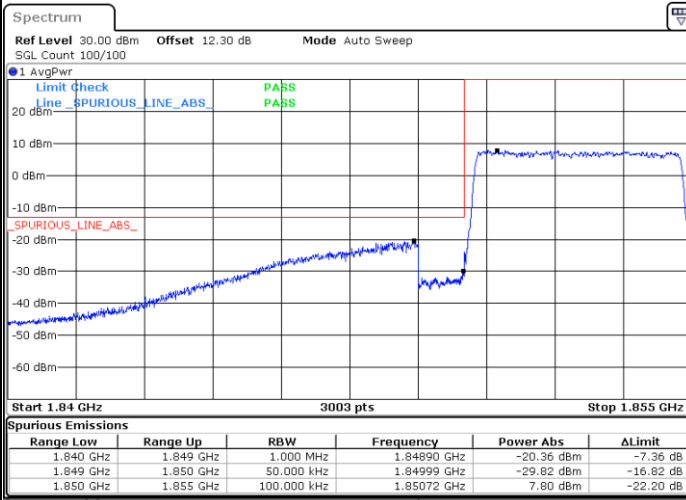
Date: 23.SEP.2022 12:08:00

Highest Band Edge / 1 RB



Date: 23.SEP.2022 12:10:40

Lowest Band Edge / Full RB



Date: 23.SEP.2022 12:08:59

Highest Band Edge / Full RB

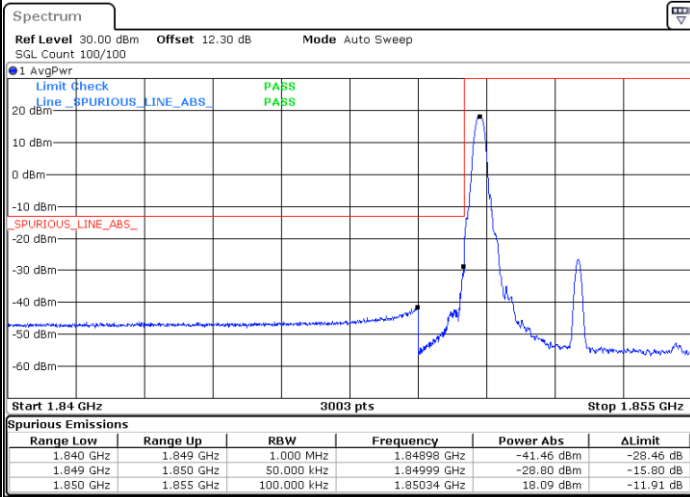


Date: 23.SEP.2022 12:11:42



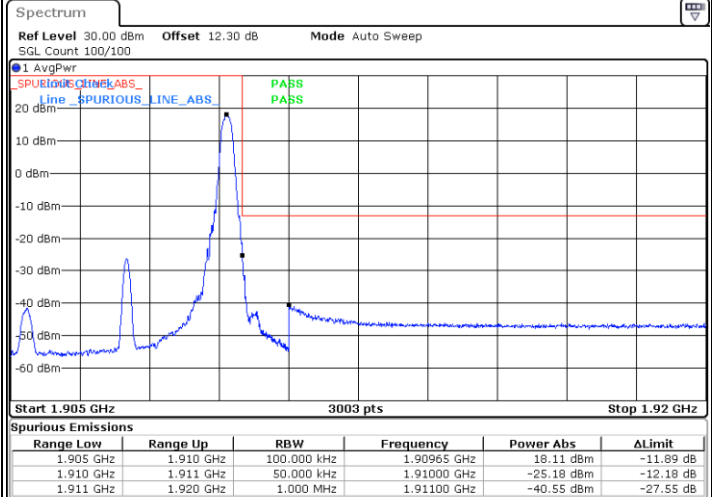
LTE Band 2 / 5MHz / 256QAM

Lowest Band Edge / 1RB



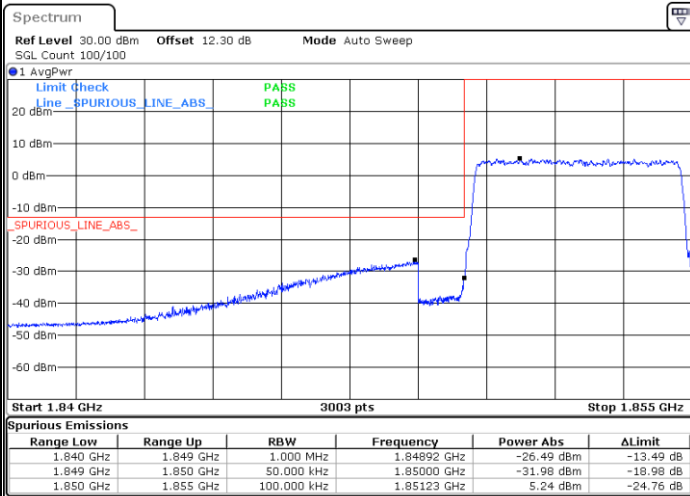
Date: 23.SEP.2022 10:07:12

Highest Band Edge / 1 RB



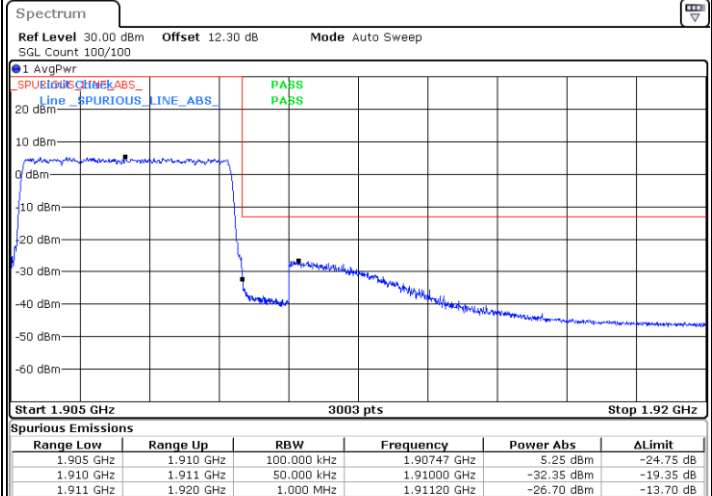
Date: 23.SEP.2022 10:10:02

Lowest Band Edge / Full RB



Date: 23.SEP.2022 10:08:13

Highest Band Edge / Full RB

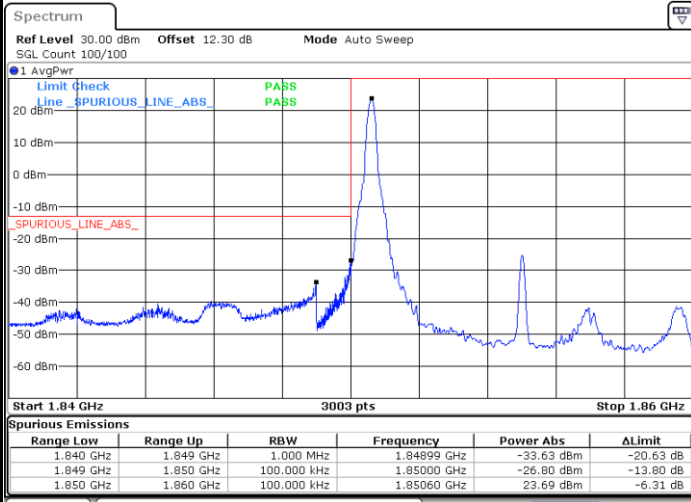


Date: 23.SEP.2022 10:11:07



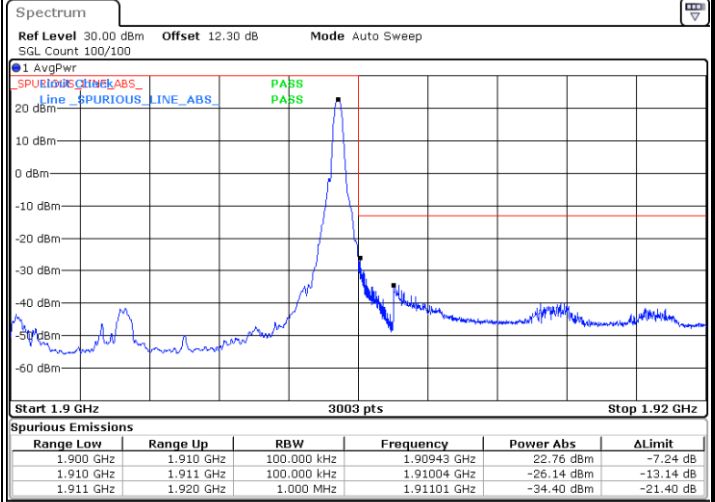
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



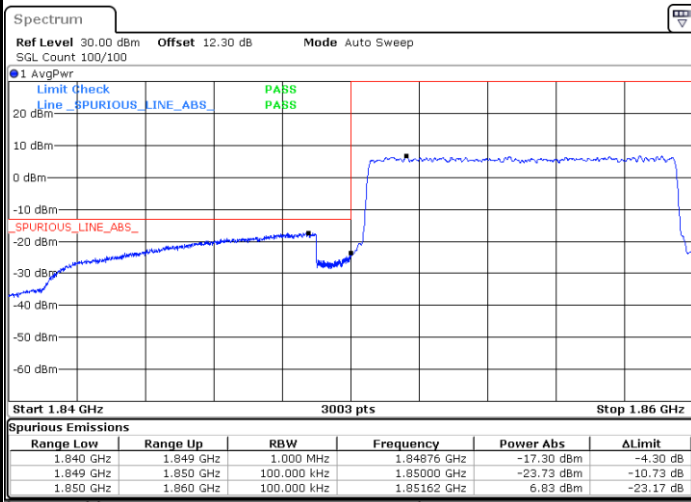
Date: 23.SEP.2022 11:20:31

Highest Band Edge / 1 RB



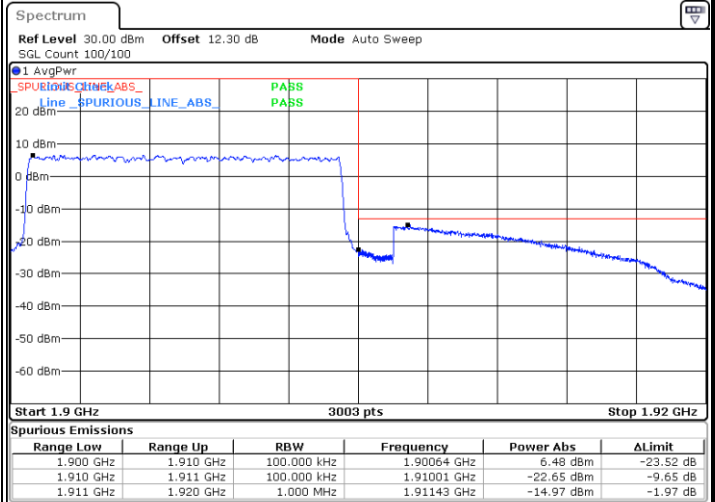
Date: 23.SEP.2022 11:29:18

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:22:28

Highest Band Edge / Full RB

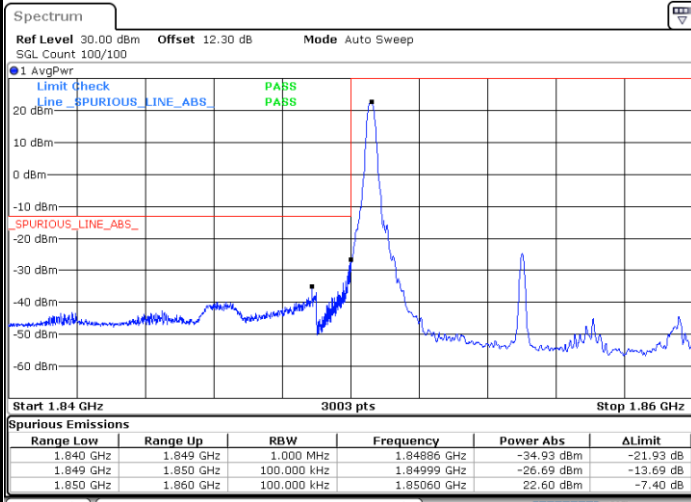


Date: 23.SEP.2022 11:31:16



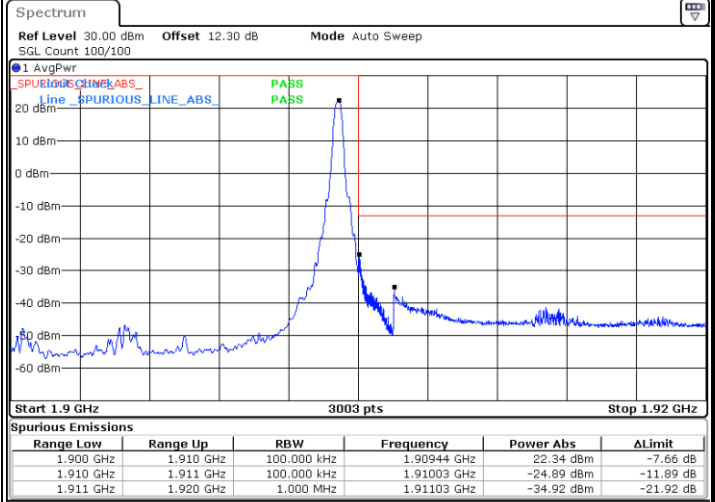
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



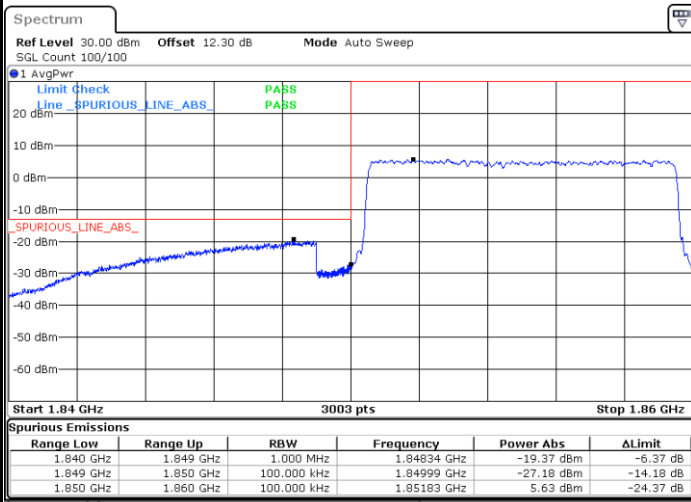
Date: 23.SEP.2022 11:21:29

Highest Band Edge / 1 RB



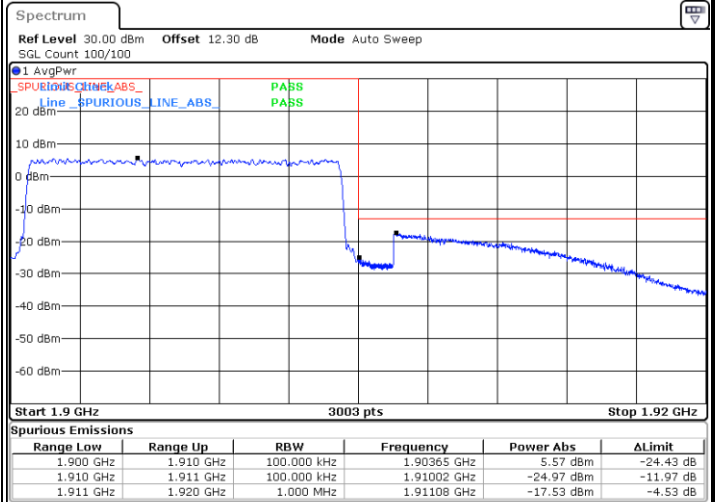
Date: 23.SEP.2022 11:30:17

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:23:27

Highest Band Edge / Full RB

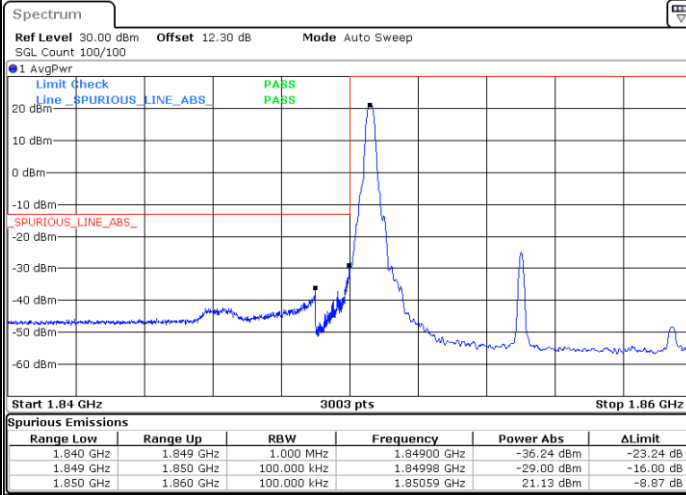


Date: 23.SEP.2022 11:32:14



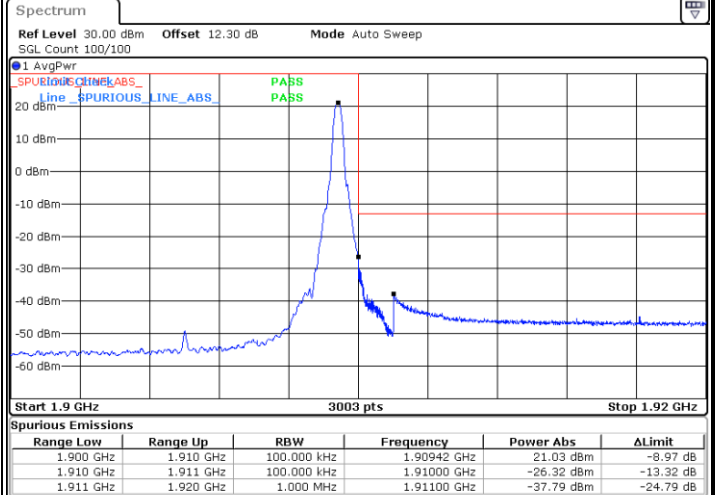
LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



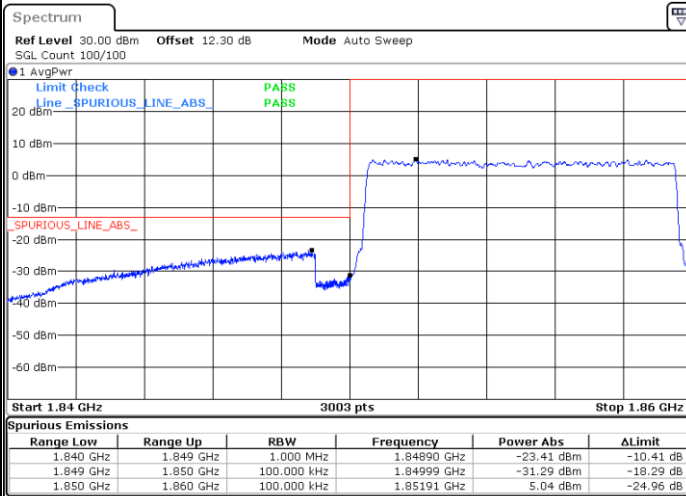
Date: 23.SEP.2022 12:12:46

Highest Band Edge / 1 RB



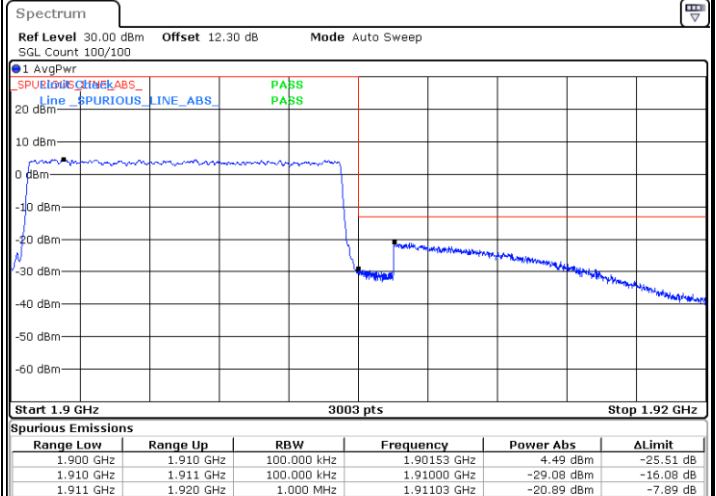
Date: 23.SEP.2022 12:15:26

Lowest Band Edge / Full RB



Date: 23.SEP.2022 12:13:45

Highest Band Edge / Full RB

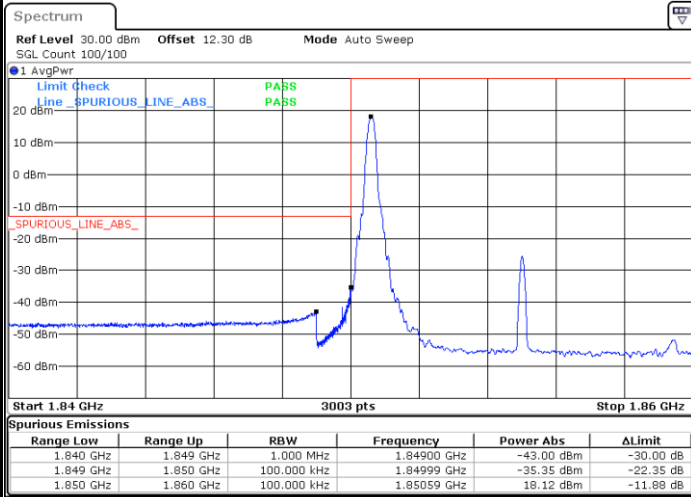


Date: 23.SEP.2022 12:16:25



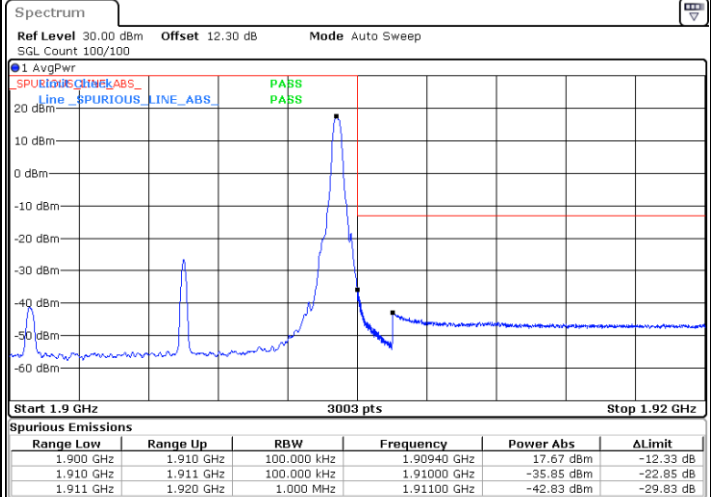
LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



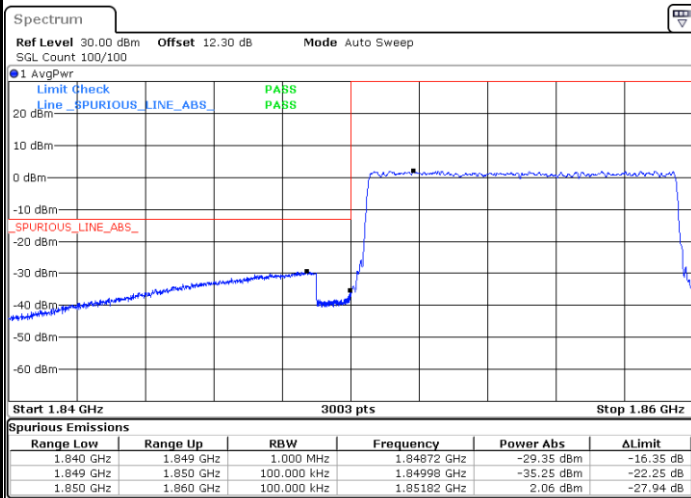
Date: 23.SEP.2022 10:12:11

Highest Band Edge / 1 RB



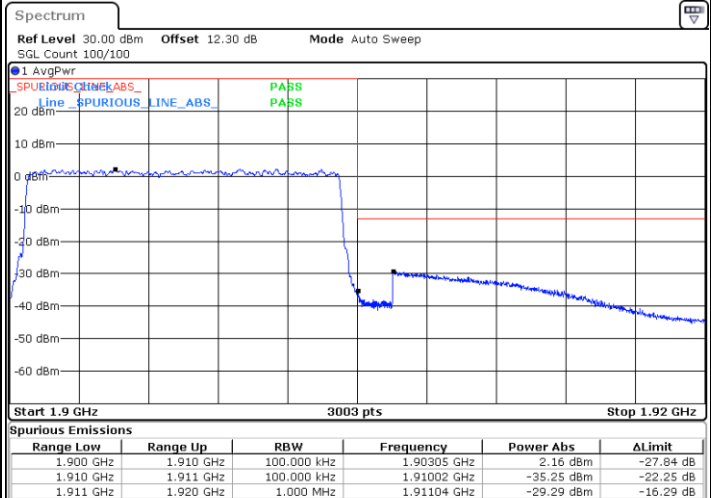
Date: 23.SEP.2022 10:14:55

Lowest Band Edge / Full RB



Date: 23.SEP.2022 10:13:13

Highest Band Edge / Full RB

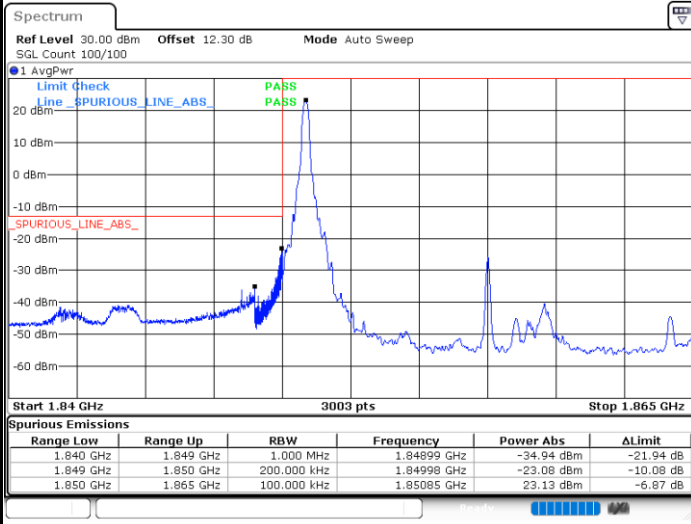


Date: 23.SEP.2022 10:15:59



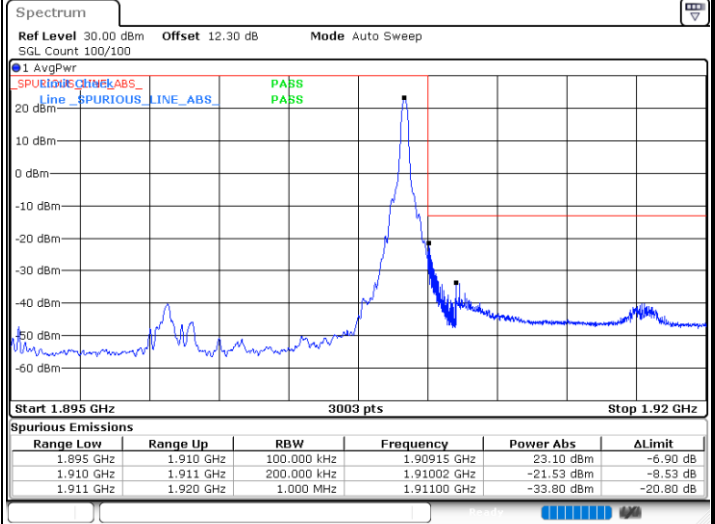
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



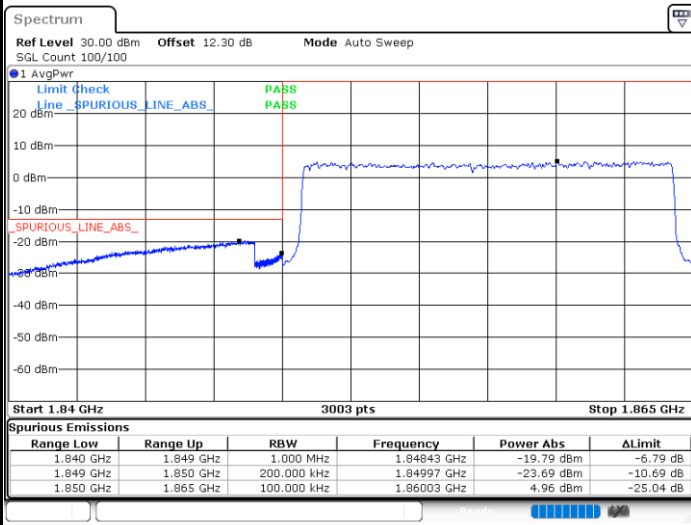
Date: 23.SEP.2022 11:34:46

Highest Band Edge / 1 RB



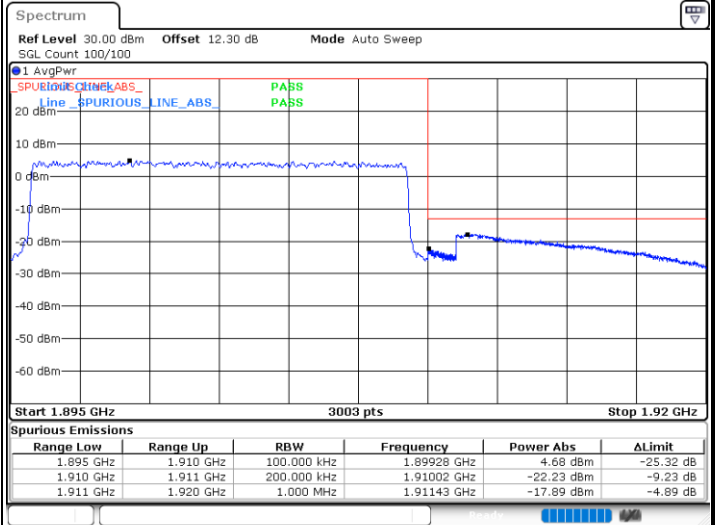
Date: 23.SEP.2022 11:43:33

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:36:44

Highest Band Edge / Full RB

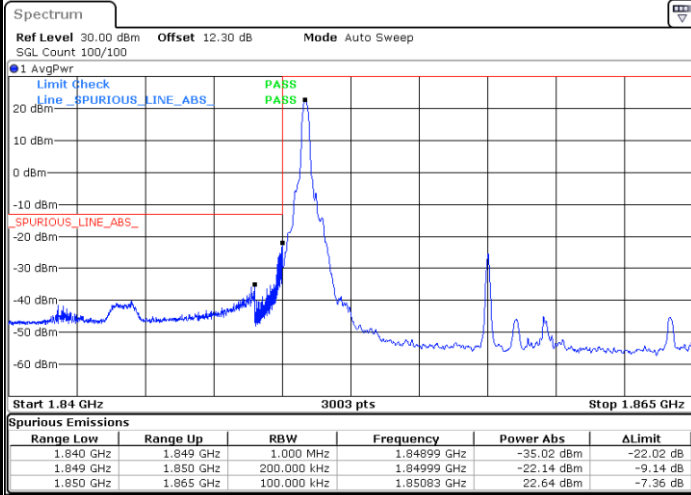


Date: 23.SEP.2022 11:45:31



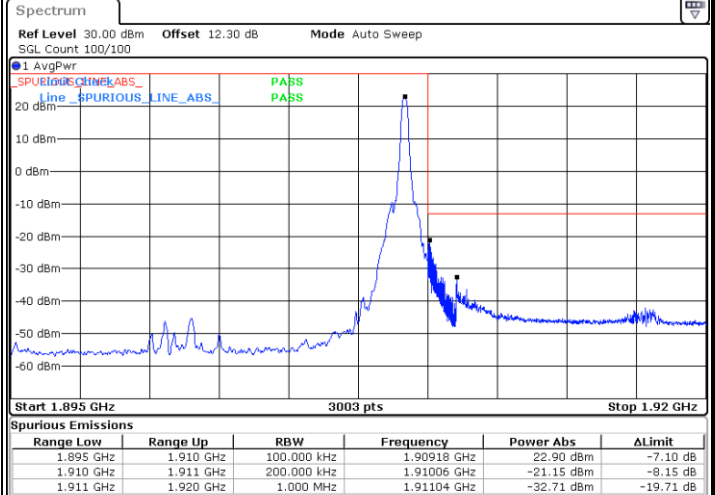
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



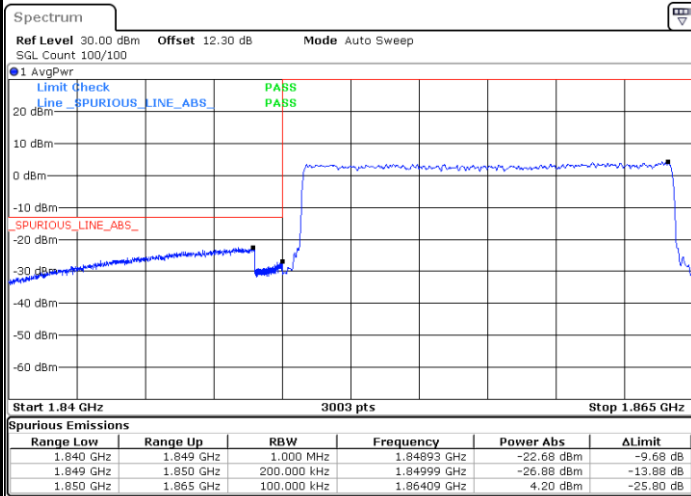
Date: 23.SEP.2022 11:35:45

Highest Band Edge / 1 RB



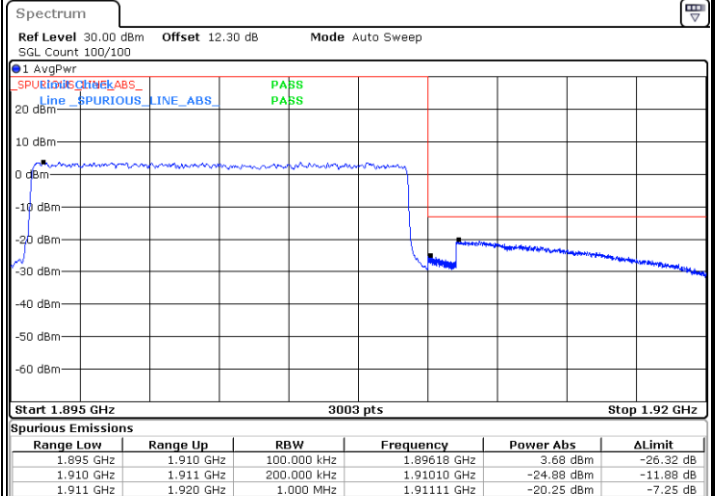
Date: 23.SEP.2022 11:44:32

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:37:43

Highest Band Edge / Full RB

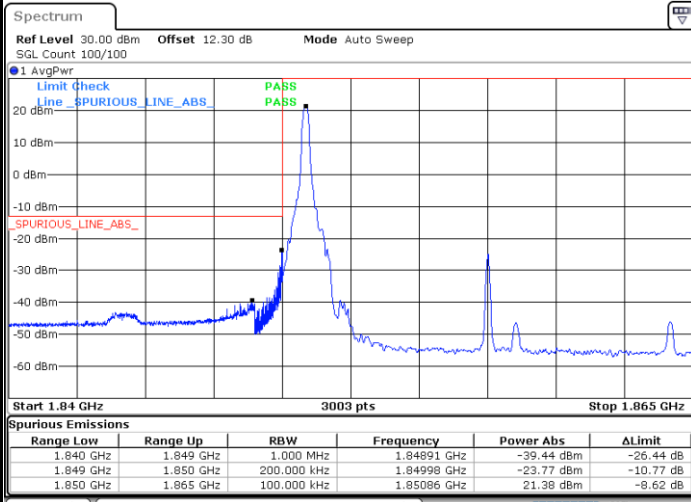


Date: 23.SEP.2022 11:46:30



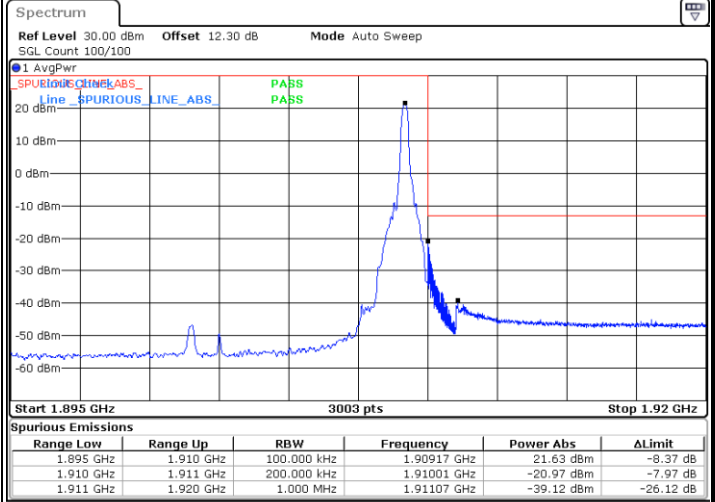
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



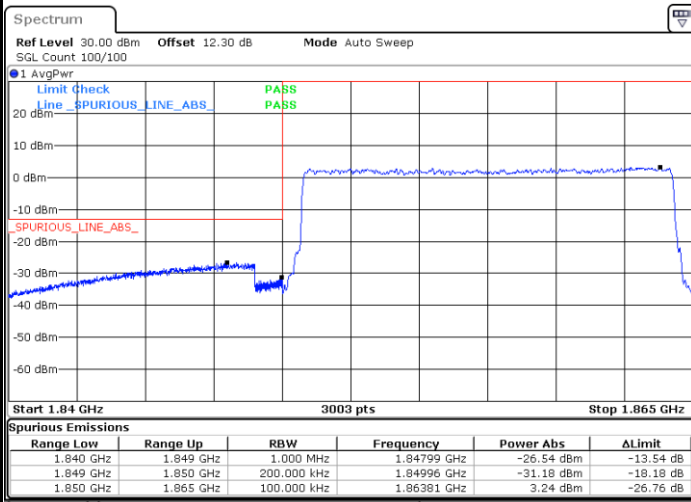
Date: 23.SEP.2022 12:17:32

Highest Band Edge / 1 RB



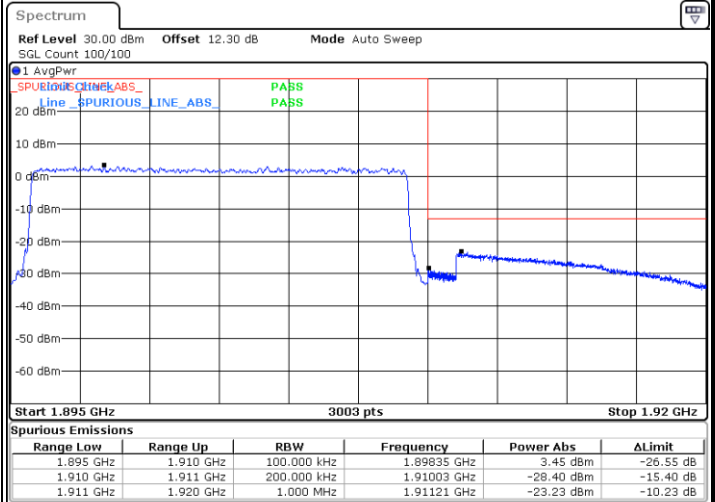
Date: 23.SEP.2022 12:20:12

Lowest Band Edge / Full RB



Date: 23.SEP.2022 12:18:31

Highest Band Edge / Full RB

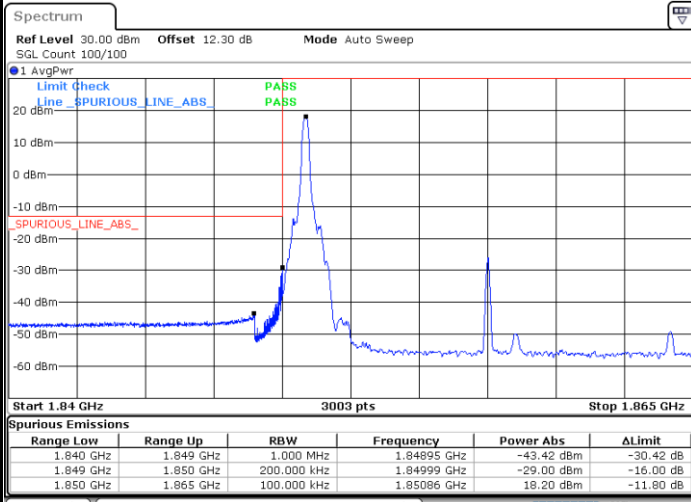


Date: 23.SEP.2022 12:21:11



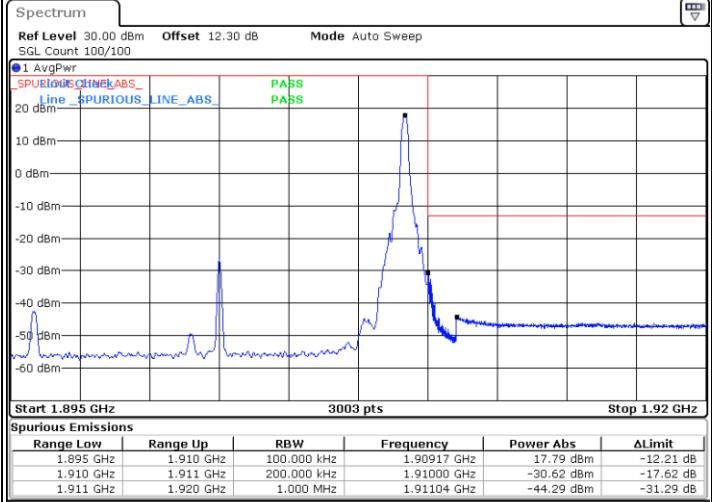
LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



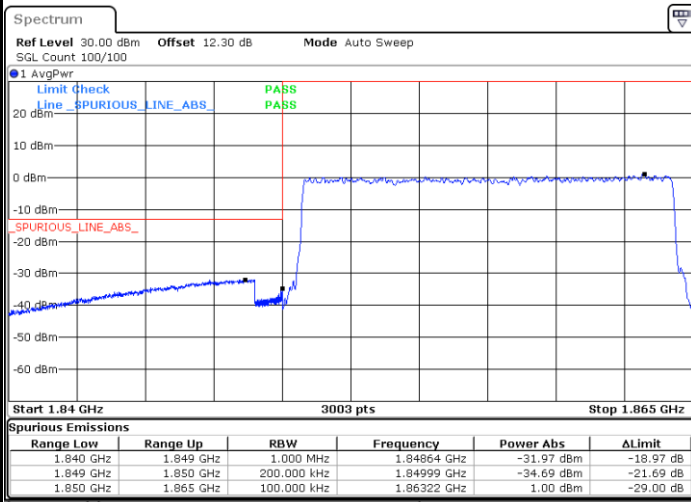
Date: 23.SEP.2022 10:17:03

Highest Band Edge / 1 RB



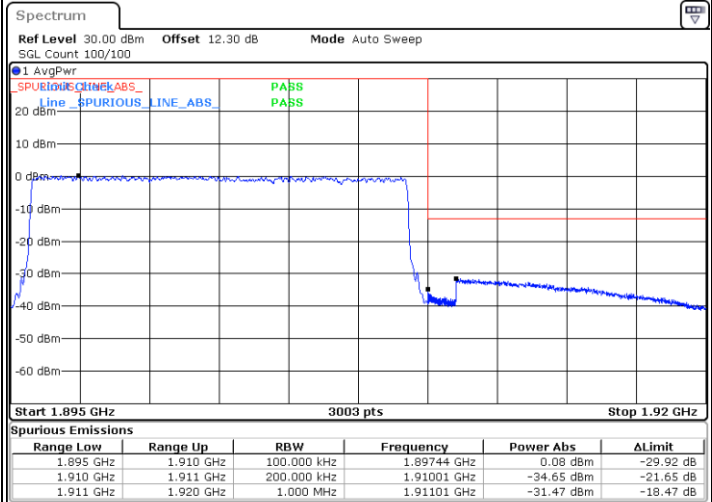
Date: 23.SEP.2022 10:19:47

Lowest Band Edge / Full RB



Date: 23.SEP.2022 10:18:05

Highest Band Edge / Full RB

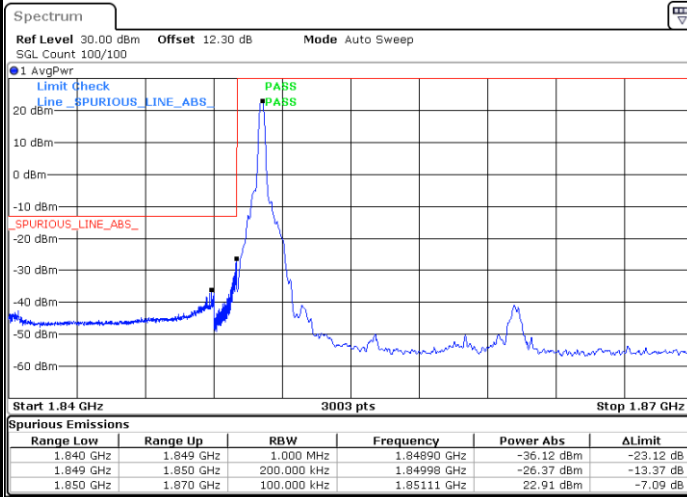


Date: 23.SEP.2022 10:20:49



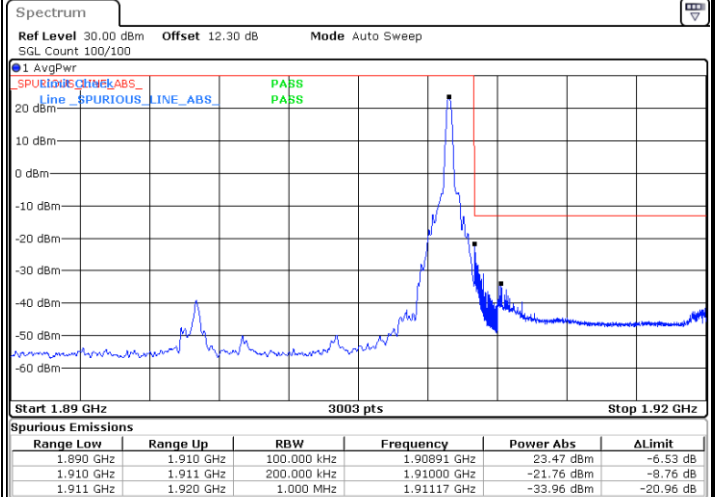
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



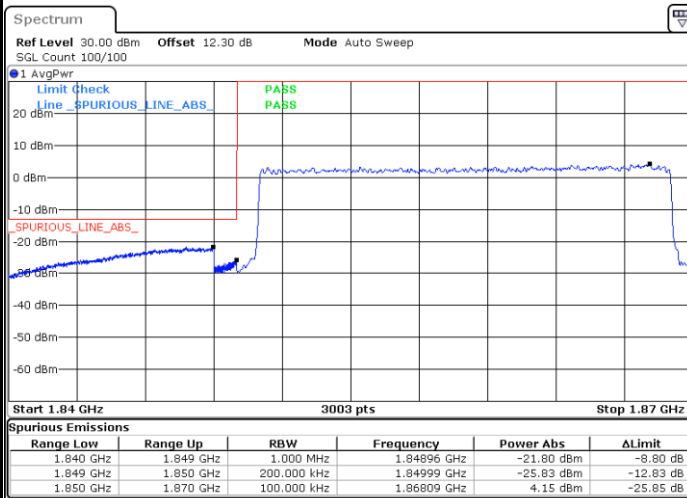
Date: 23.SEP.2022 11:49:02

Highest Band Edge / 1 RB



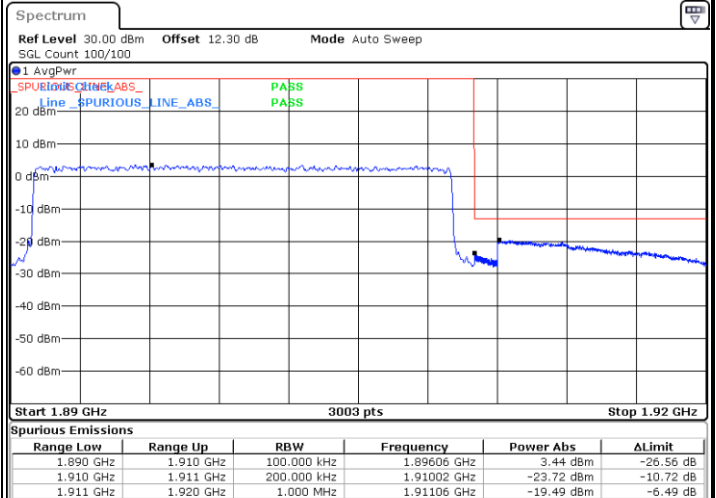
Date: 23.SEP.2022 11:57:49

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:50:59

Highest Band Edge / Full RB

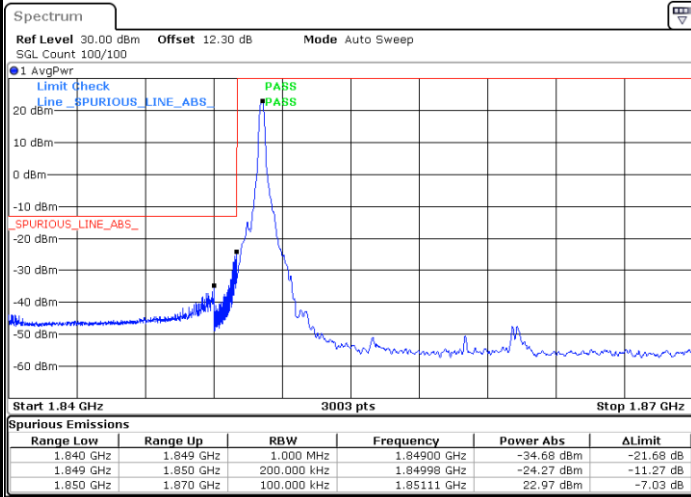


Date: 23.SEP.2022 11:59:46



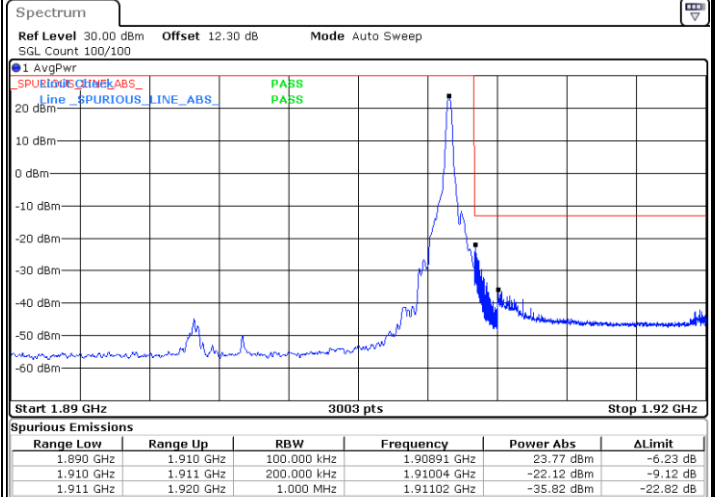
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



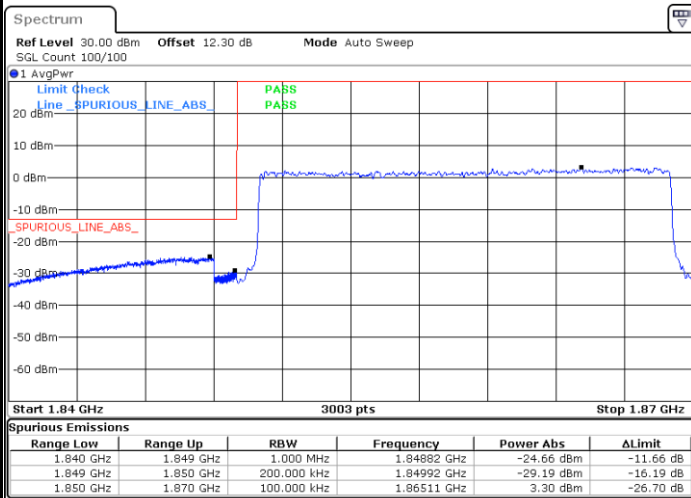
Date: 23.SEP.2022 11:50:00

Highest Band Edge / 1 RB



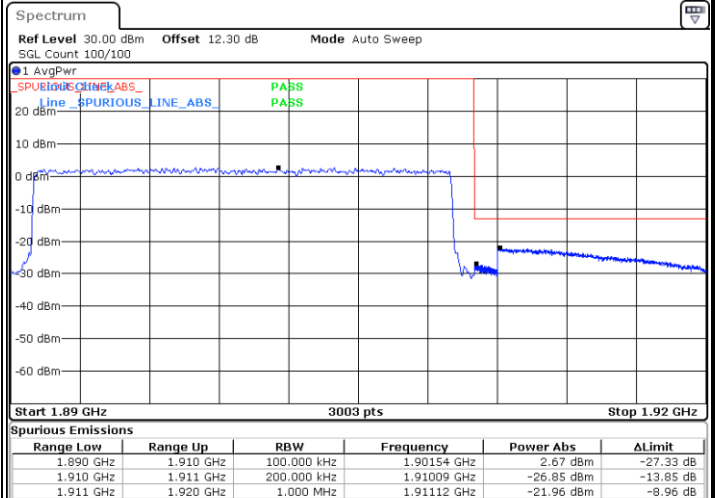
Date: 23.SEP.2022 11:58:47

Lowest Band Edge / Full RB



Date: 23.SEP.2022 11:51:58

Highest Band Edge / Full RB

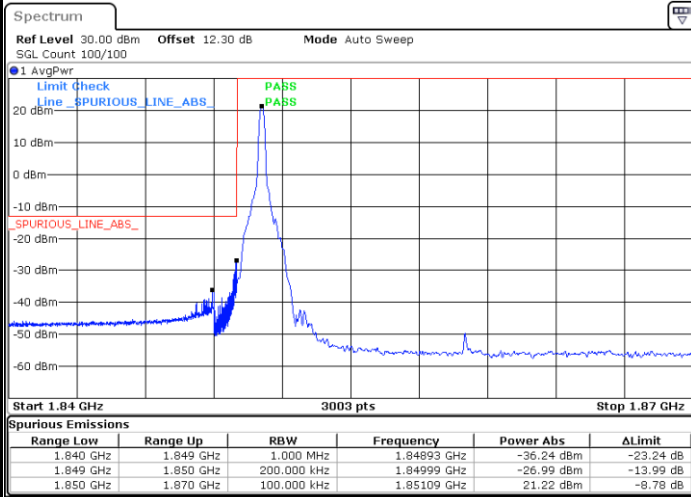


Date: 23.SEP.2022 12:00:45



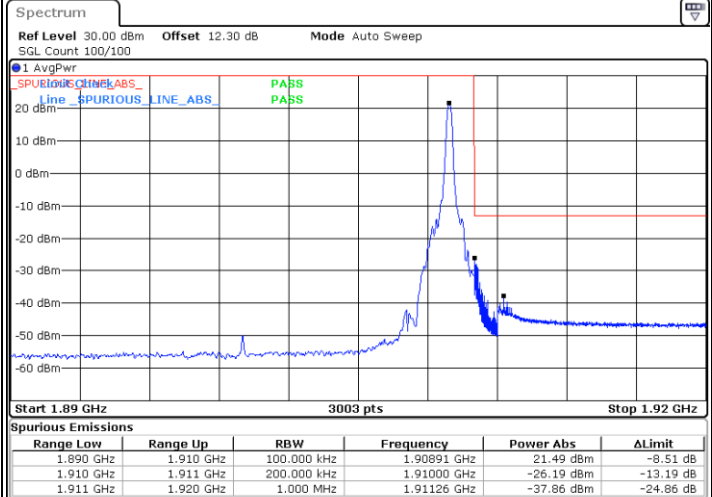
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



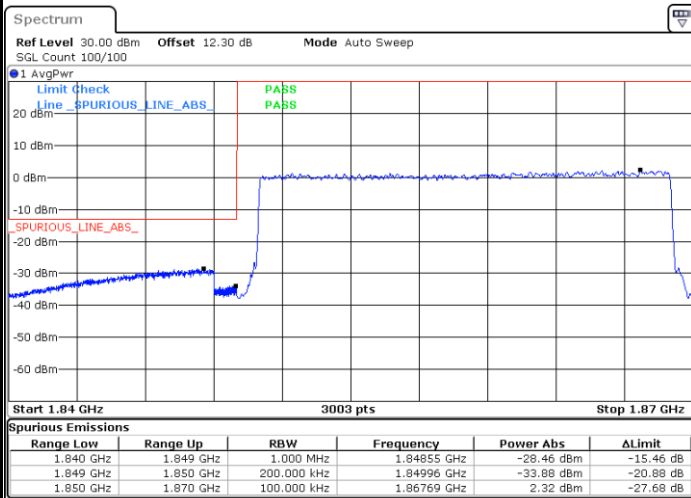
Date: 23.SEP.2022 12:22:15

Highest Band Edge / 1 RB



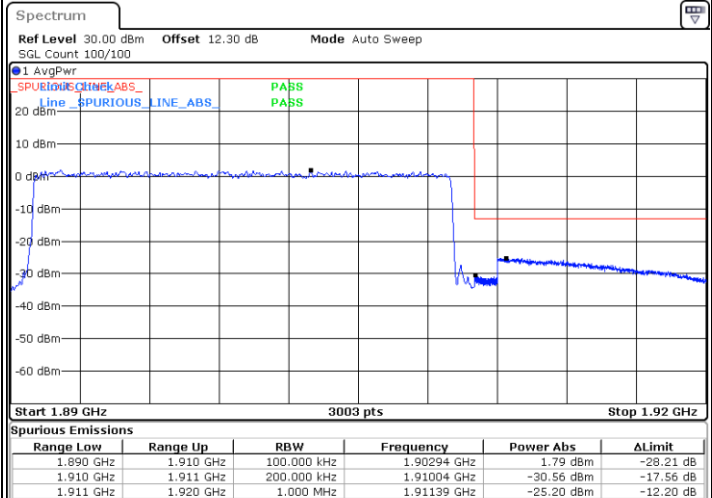
Date: 23.SEP.2022 12:24:55

Lowest Band Edge / Full RB



Date: 23.SEP.2022 12:23:14

Highest Band Edge / Full RB

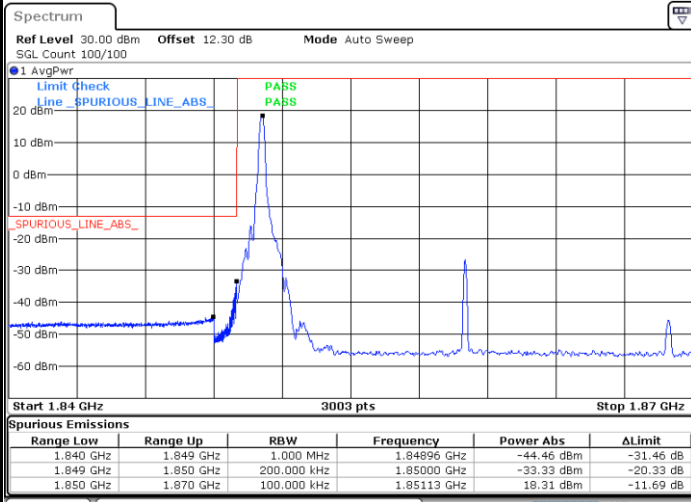


Date: 23.SEP.2022 12:25:54



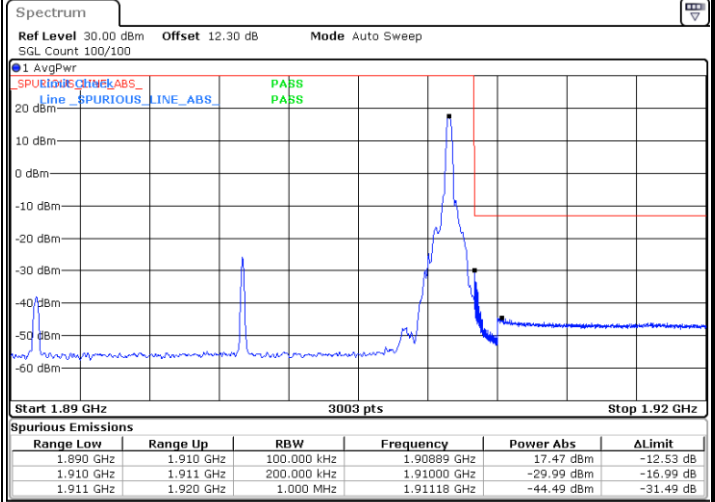
LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



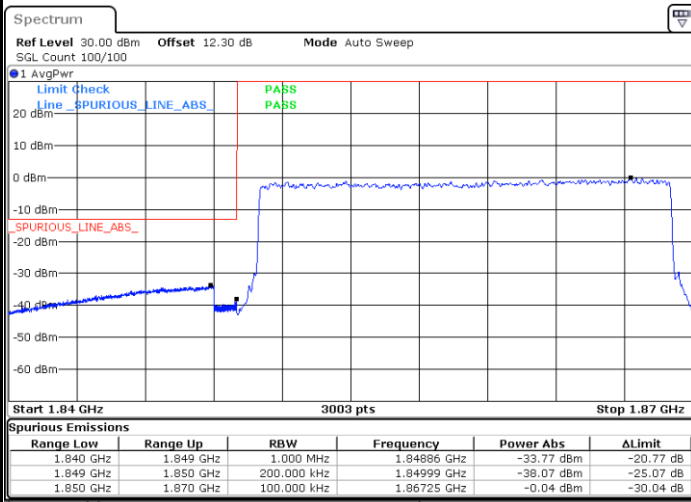
Date: 23.SEP.2022 10:21:55

Highest Band Edge / 1 RB



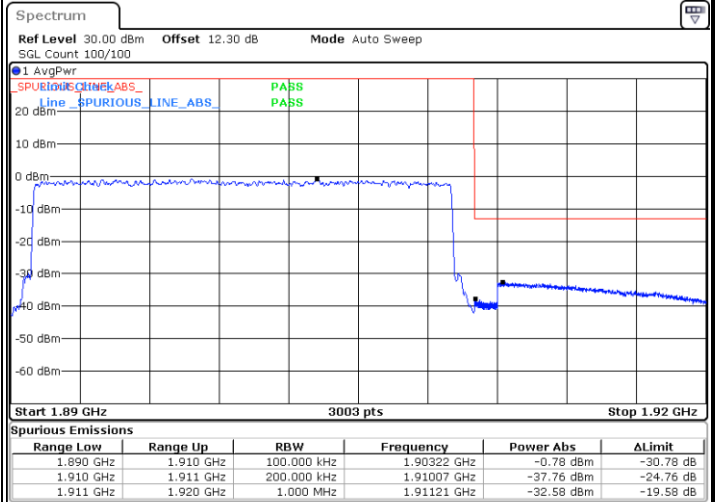
Date: 23.SEP.2022 10:24:39

Lowest Band Edge / Full RB



Date: 23.SEP.2022 10:22:57

Highest Band Edge / Full RB



Date: 23.SEP.2022 10:25:41



Conducted Spurious Emission

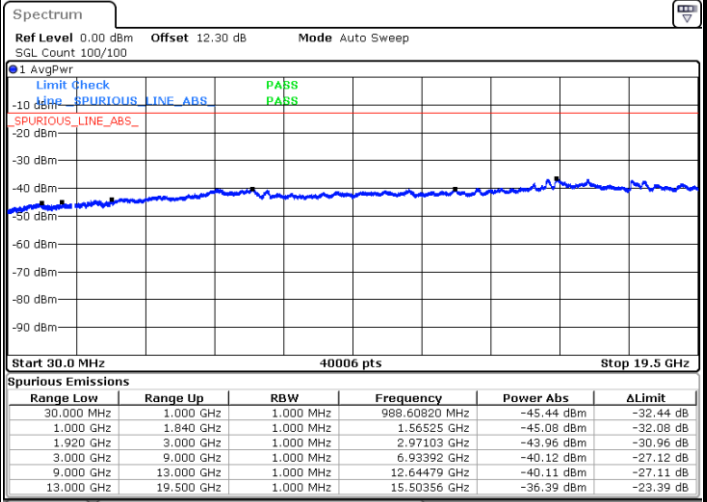
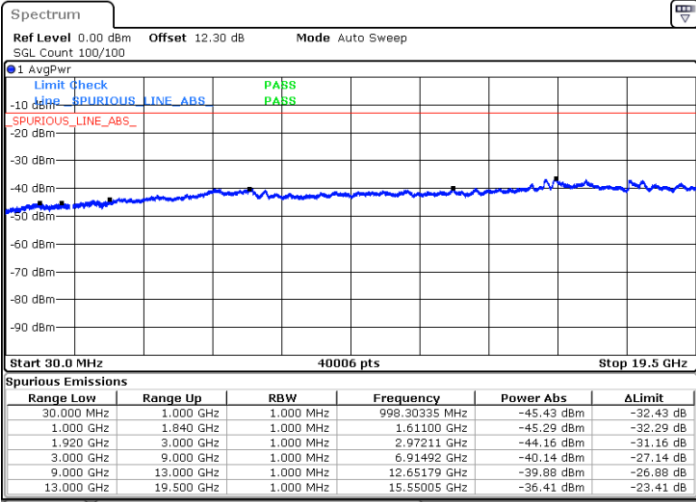




LTE Band 2 / 3MHz

Lowest Channel / QPSK

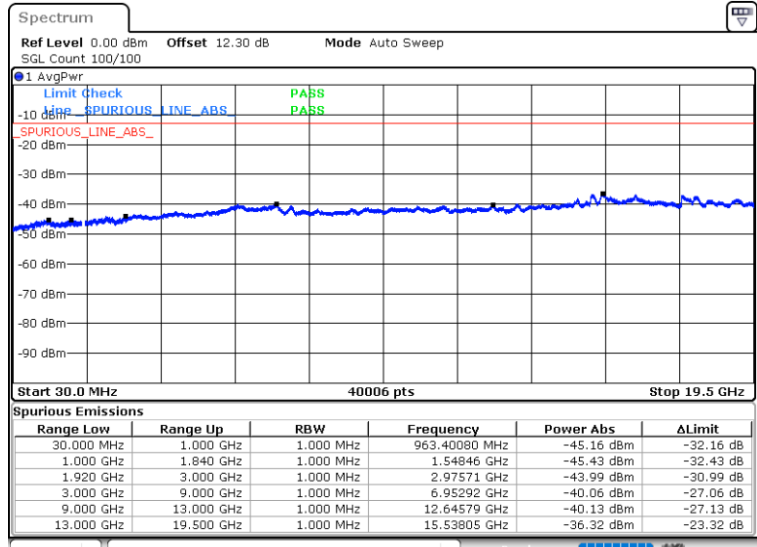
Middle Channel / QPSK



Date: 23.SEP.2022 10:56:11

Date: 23.SEP.2022 10:59:36

Highest Channel / QPSK



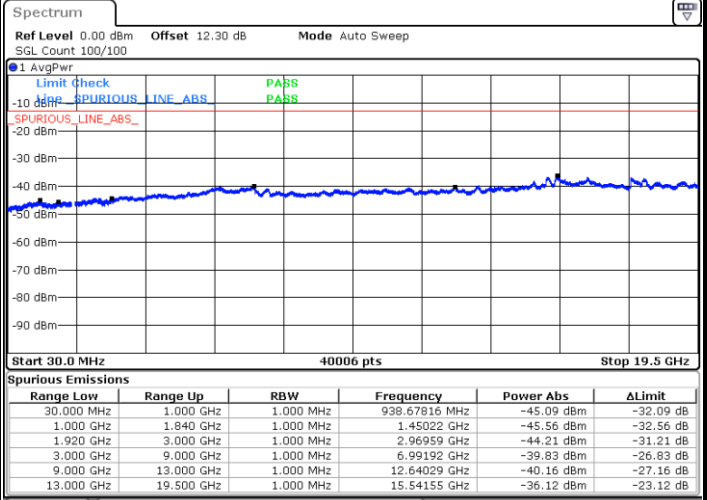
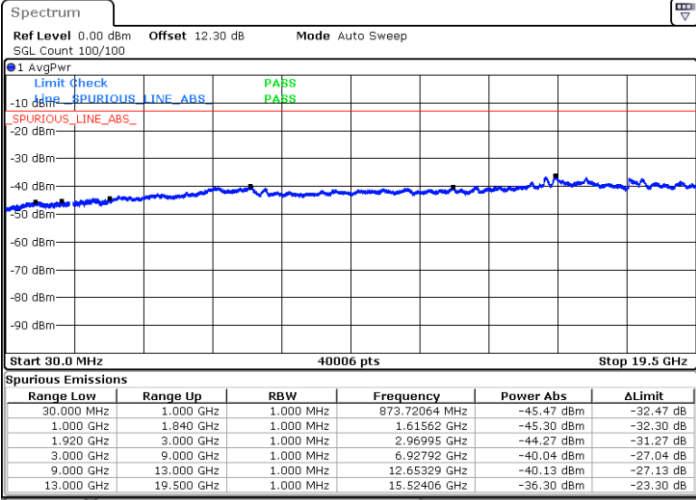
Date: 23.SEP.2022 11:05:02



LTE Band 2 / 5MHz

Lowest Channel / QPSK

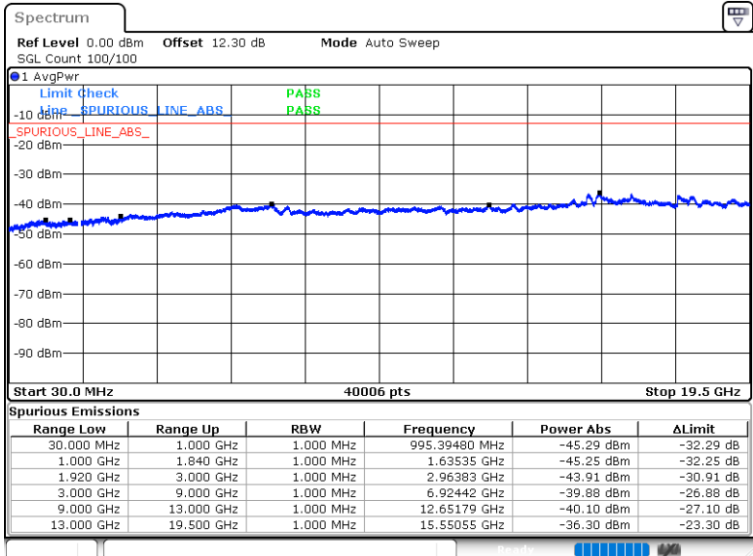
Middle Channel / QPSK



Date: 23.SEP.2022 11:10:31

Date: 23.SEP.2022 11:13:59

Highest Channel / QPSK



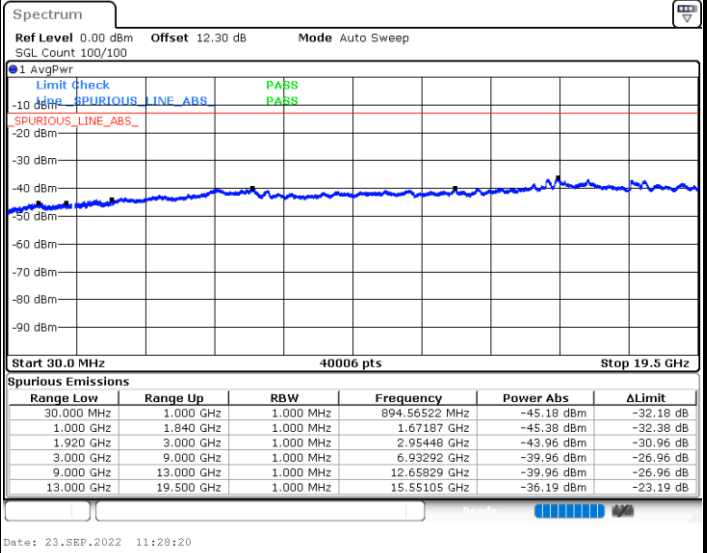
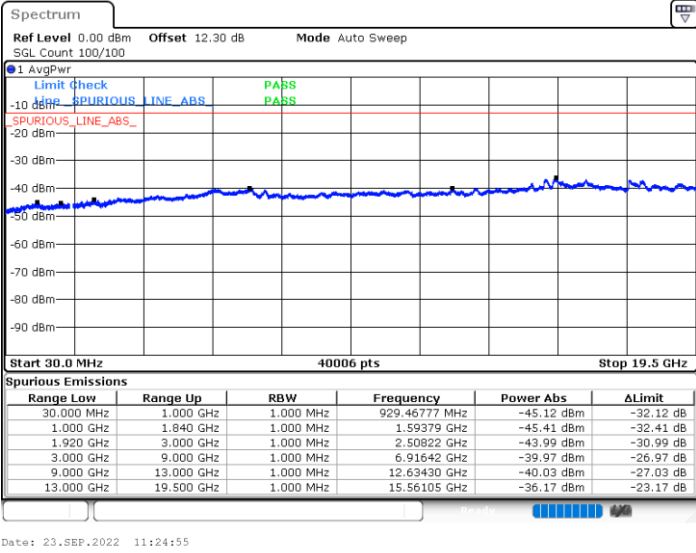
Date: 23.SEP.2022 11:19:26



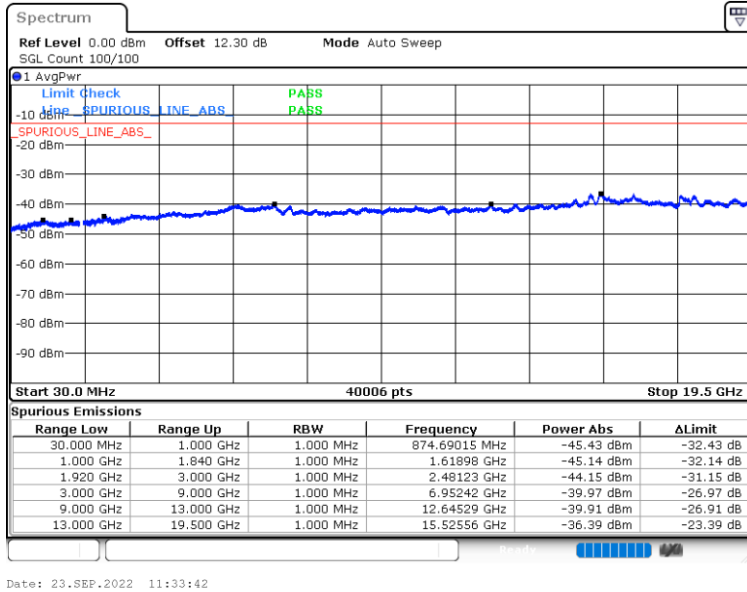
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

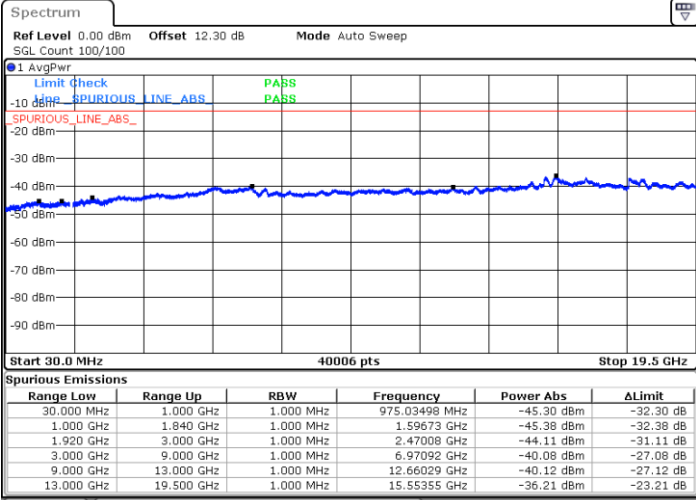




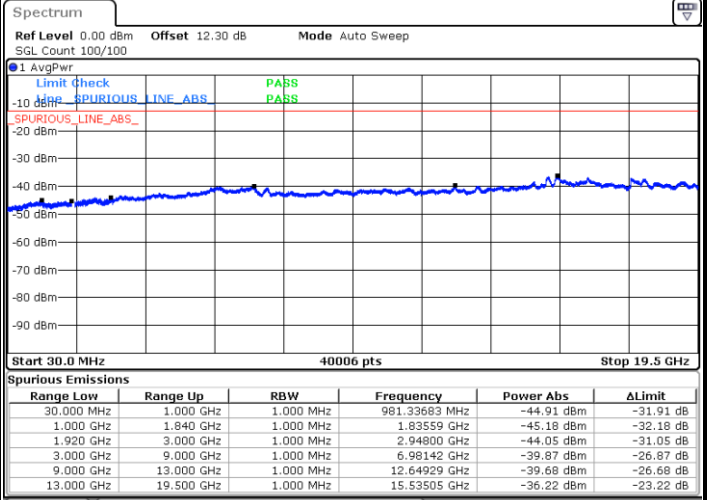
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

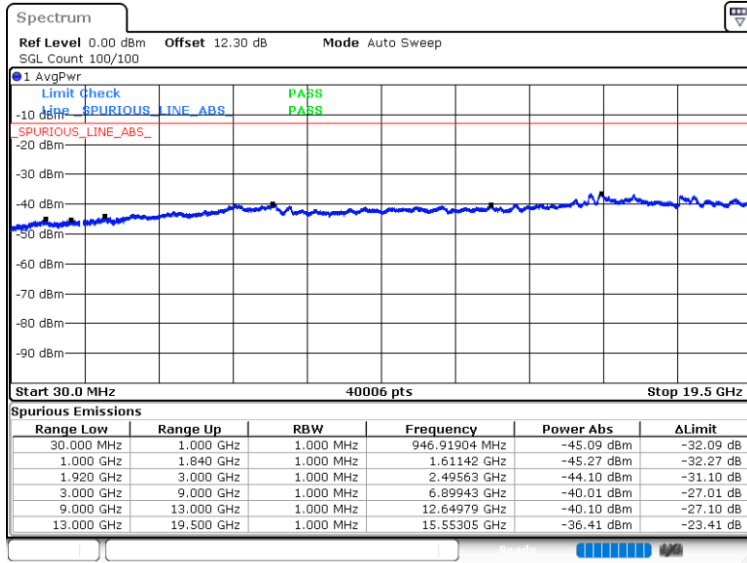


Date: 23.SEP.2022 11:39:11



Date: 23.SEP.2022 11:42:35

Highest Channel / QPSK



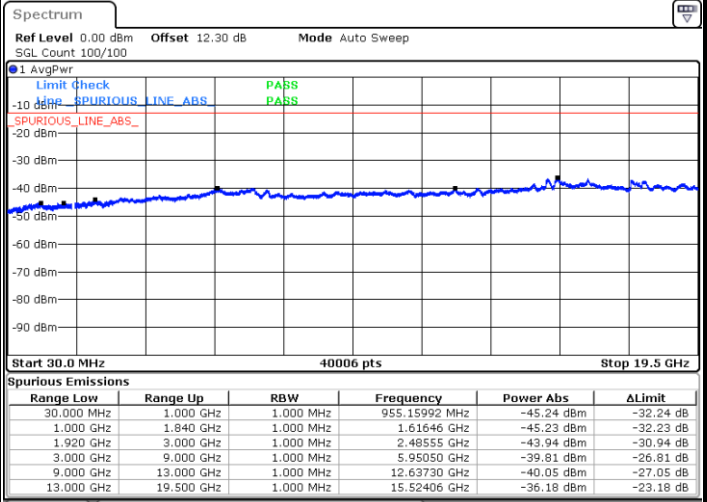
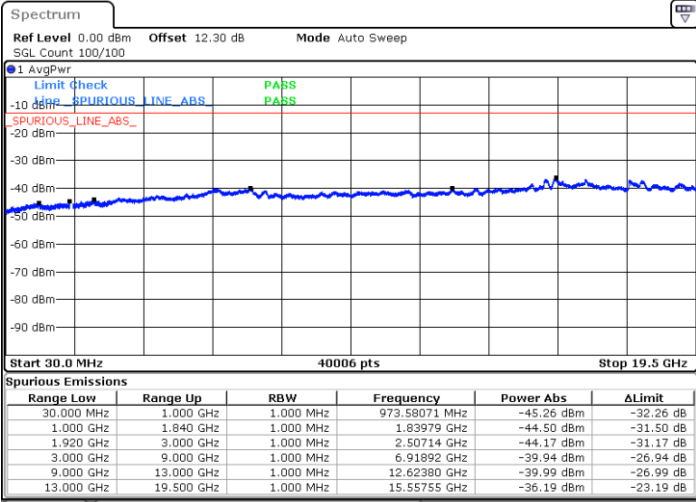
Date: 23.SEP.2022 11:47:58



LTE Band 2 / 20MHz

Lowest Channel / QPSK

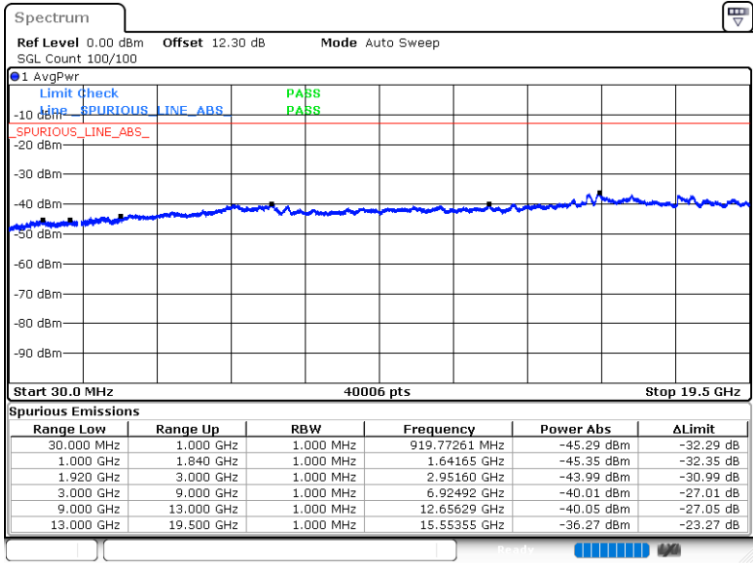
Middle Channel / QPSK



Date: 23.SEP.2022 11:53:26

Date: 23.SEP.2022 11:56:50

Highest Channel / QPSK



Date: 23.SEP.2022 12:02:13



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	0.0070	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0050	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0064	

Note:

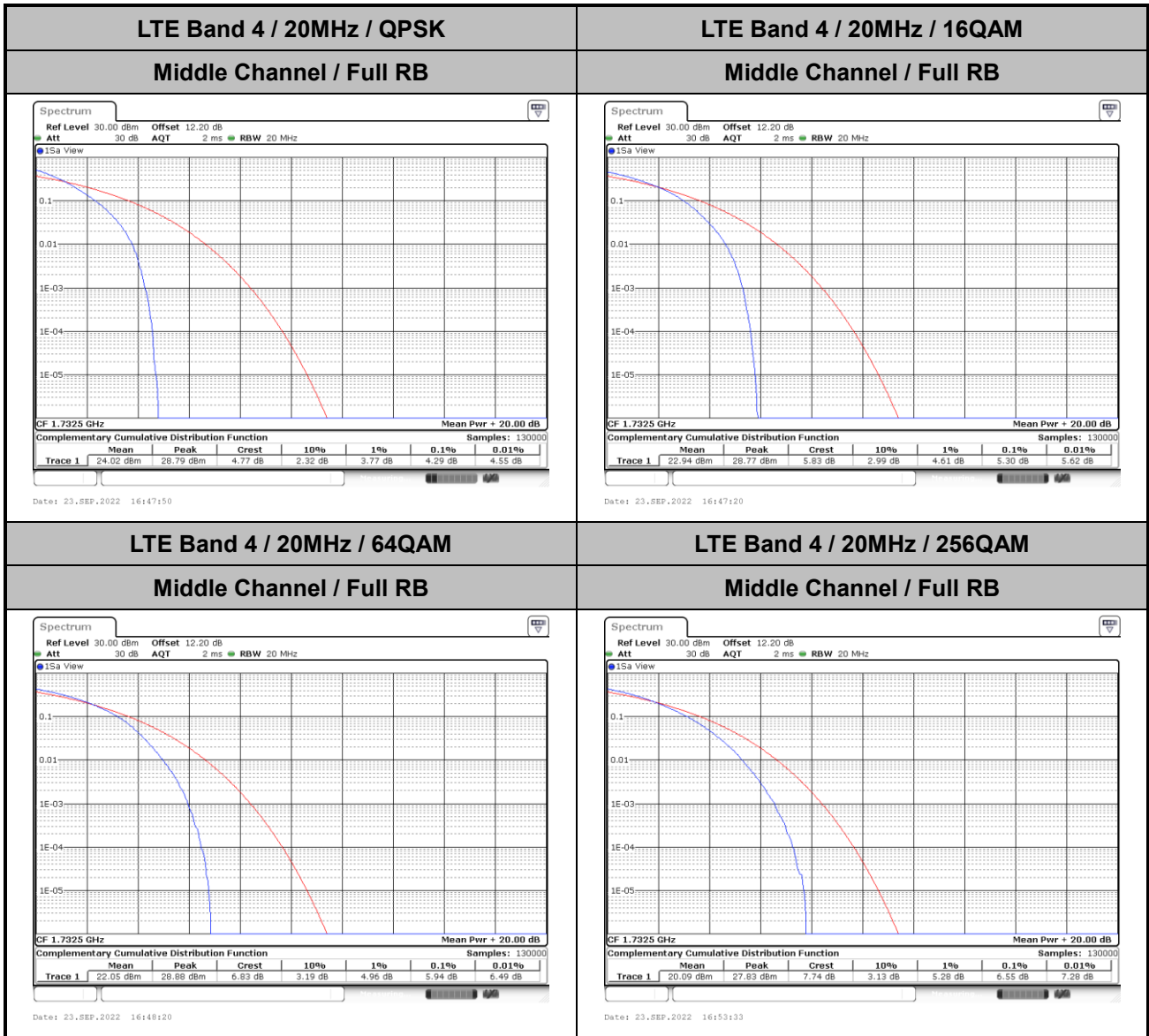
1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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	4.29	5.30	5.94	6.55	PASS





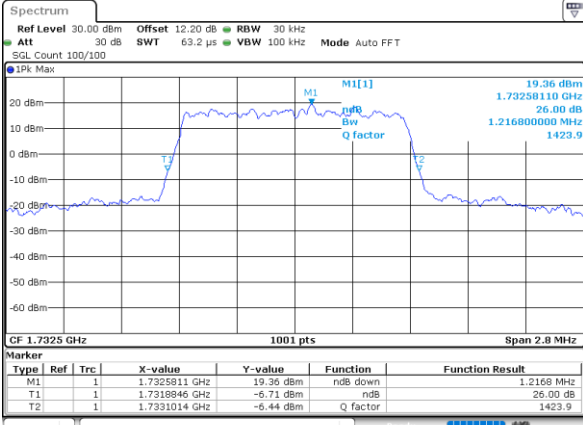
26dB Bandwidth

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	1.22	1.23	3.03	3.03	4.85	4.88	9.77	9.91	14.15	14.24	18.94	18.90
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	1.24	1.22	3.02	3.02	4.94	4.88	9.87	9.81	14.45	14.18	18.86	18.90



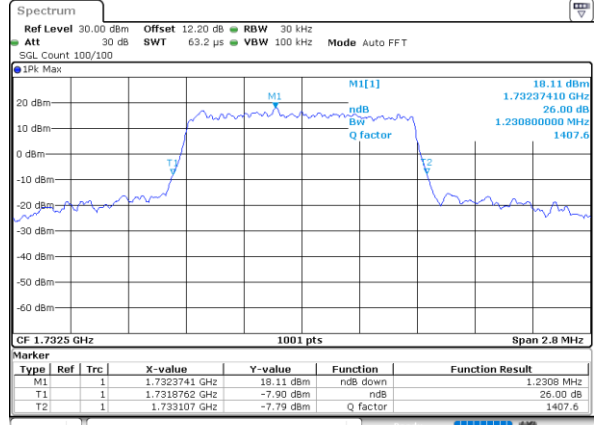
LTE Band 4

Middle Channel / 1.4MHz / QPSK



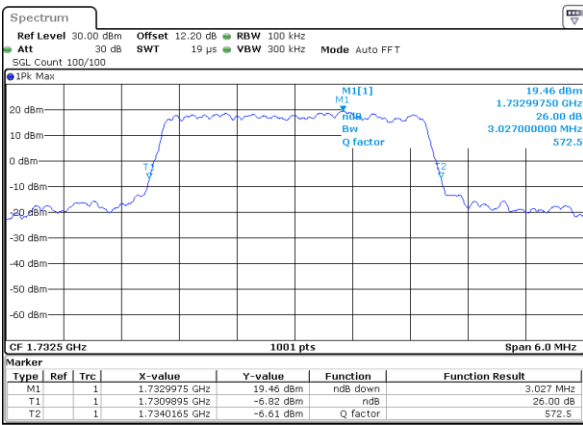
Date: 23_SEP.2022 14:18:20

Middle Channel / 1.4MHz / 16QAM



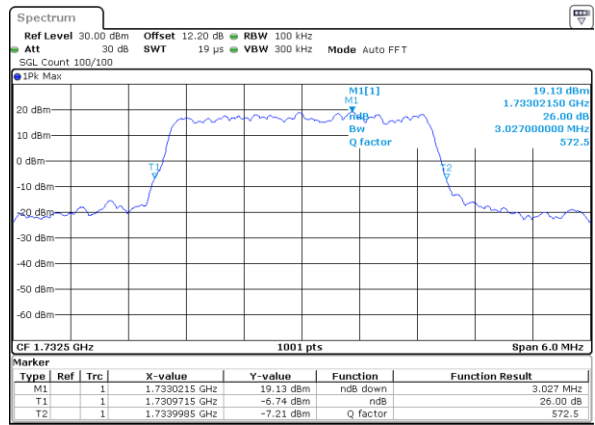
Date: 23_SEP.2022 14:18:57

Middle Channel / 3MHz / QPSK



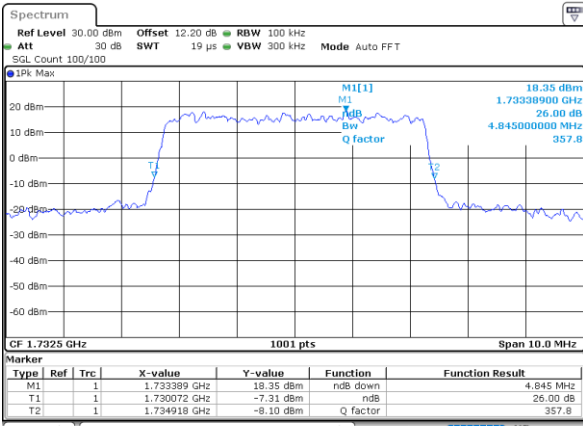
Date: 23_SEP.2022 14:46:01

Middle Channel / 3MHz / 16QAM



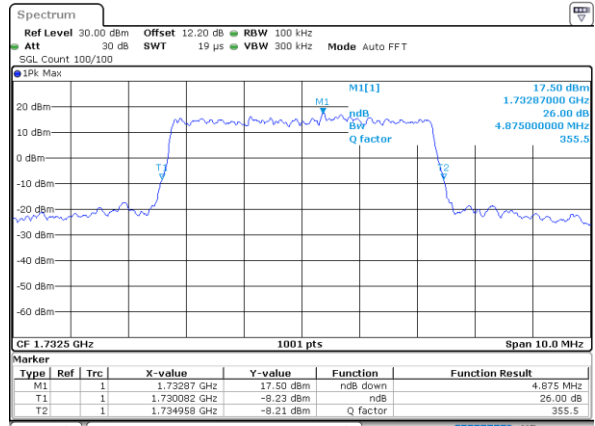
Date: 23_SEP.2022 14:46:33

Middle Channel / 5MHz / QPSK



Date: 23_SEP.2022 15:17:57

Middle Channel / 5MHz / 16QAM

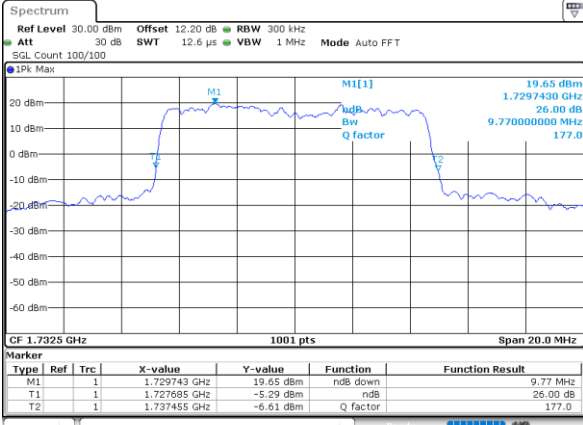


Date: 23_SEP.2022 15:18:26



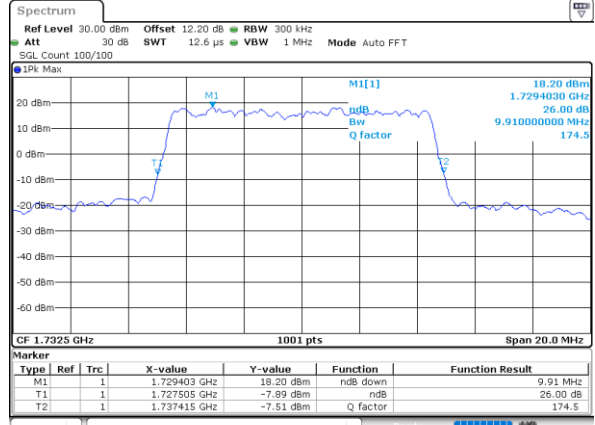
LTE Band 4

Middle Channel / 10MHz / QPSK



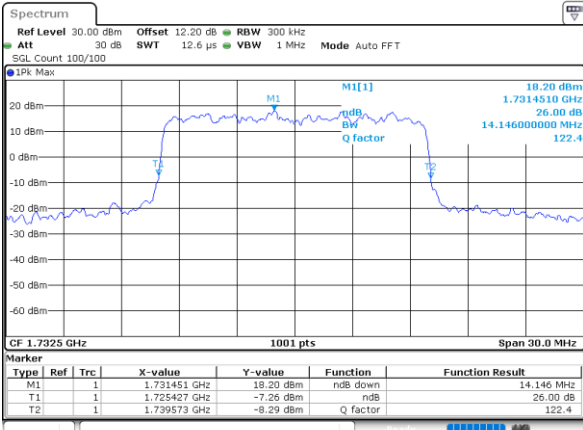
Date: 23_SEP.2022 15:40:39

Middle Channel / 10MHz / 16QAM



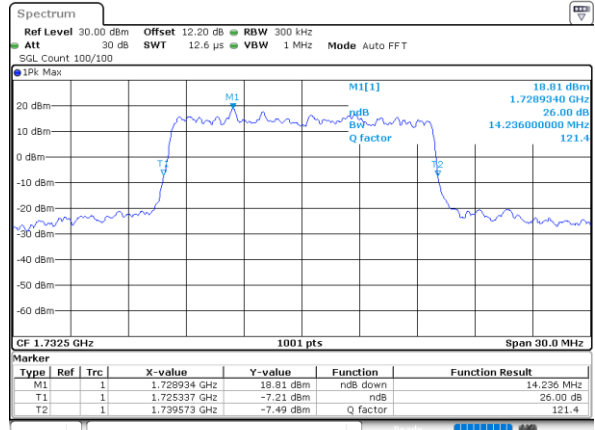
Date: 23_SEP.2022 15:41:08

Middle Channel / 15MHz / QPSK



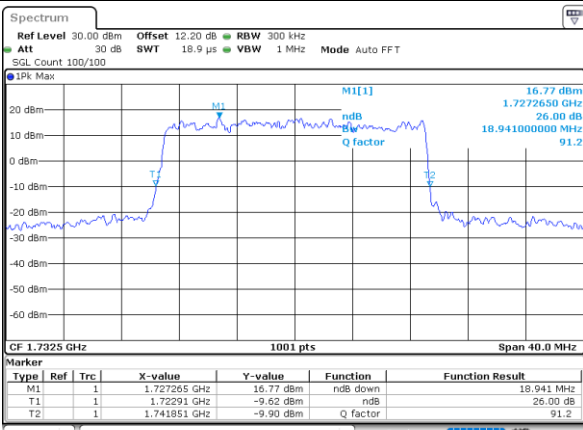
Date: 23_SEP.2022 16:08:26

Middle Channel / 15MHz / 16QAM



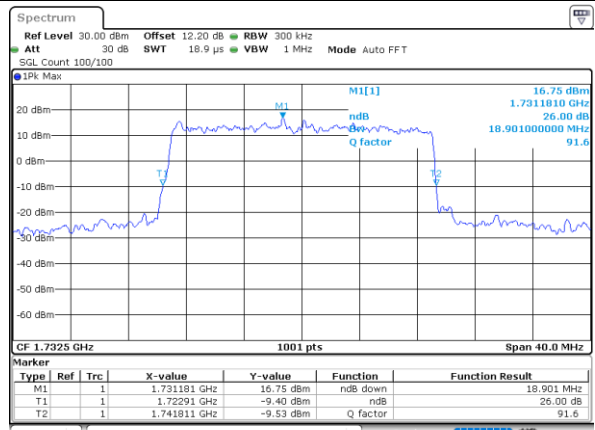
Date: 23_SEP.2022 16:08:55

Middle Channel / 20MHz / QPSK



Date: 23_SEP.2022 16:34:47

Middle Channel / 20MHz / 16QAM

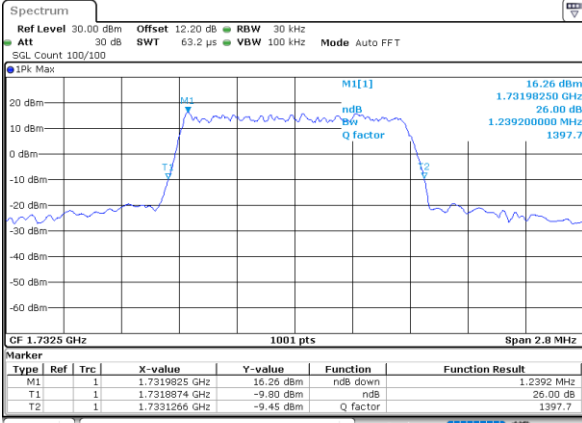


Date: 23_SEP.2022 16:35:16



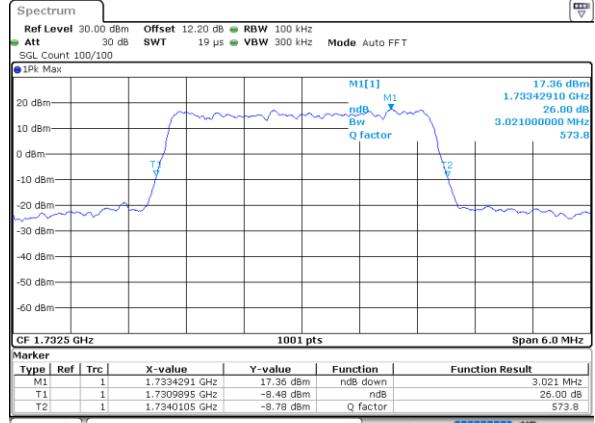
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



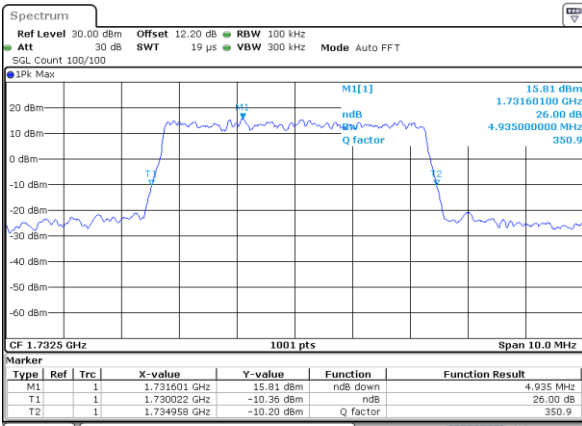
Date: 23_SEP.2022 14:28:33

Middle Channel / 3MHz / 64QAM



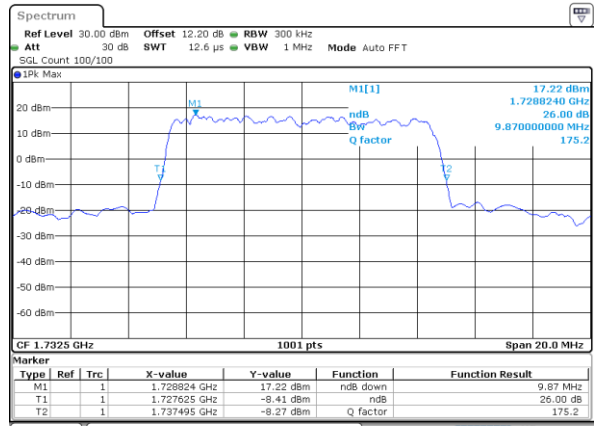
Date: 23_SEP.2022 14:56:04

Middle Channel / 5MHz / 64QAM



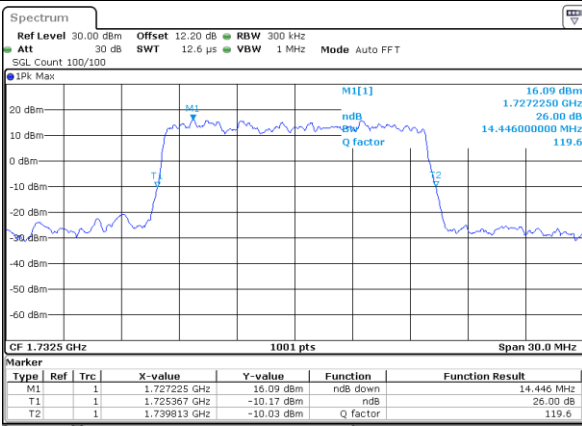
Date: 23_SEP.2022 15:09:09

Middle Channel / 10MHz / 64QAM



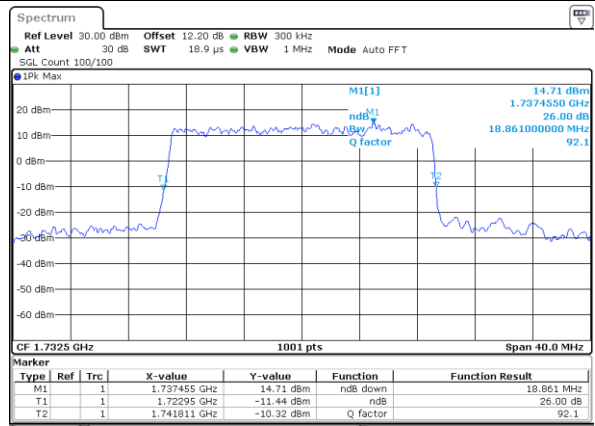
Date: 23_SEP.2022 15:50:42

Middle Channel / 15MHz / 64QAM



Date: 23_SEP.2022 16:18:30

Middle Channel / 20MHz / 64QAM

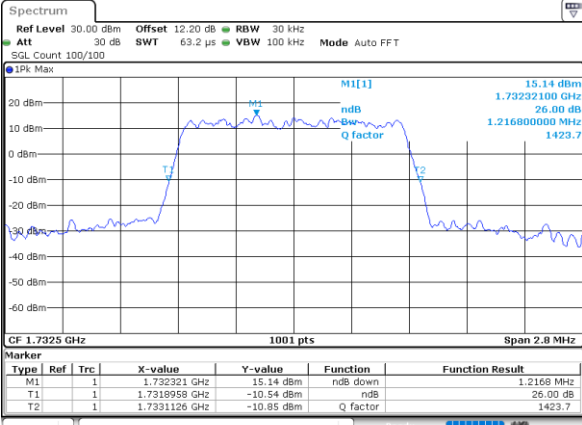


Date: 23_SEP.2022 16:44:52



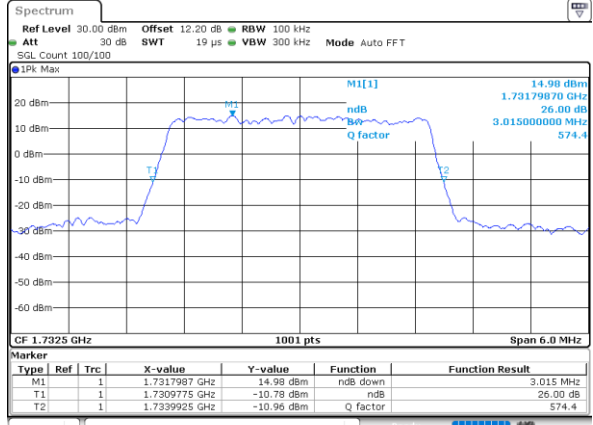
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



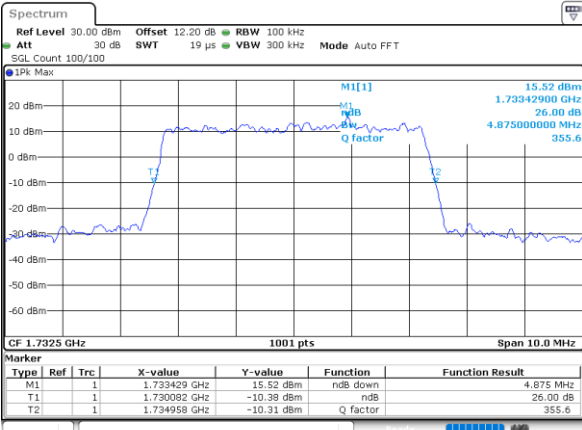
Date: 23_SEP.2022 14:33:14

Middle Channel / 3MHz / 256QAM



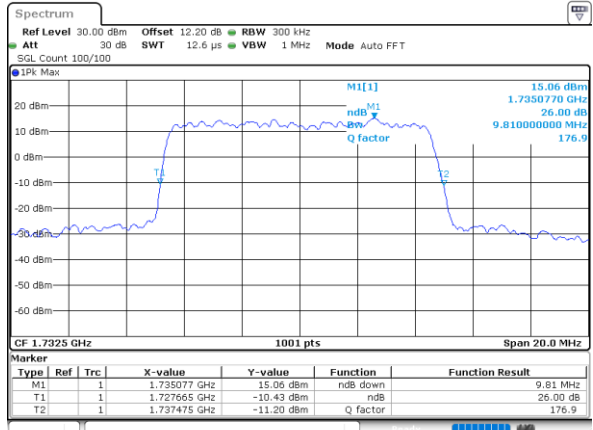
Date: 23_SEP.2022 15:00:44

Middle Channel / 5MHz / 256QAM



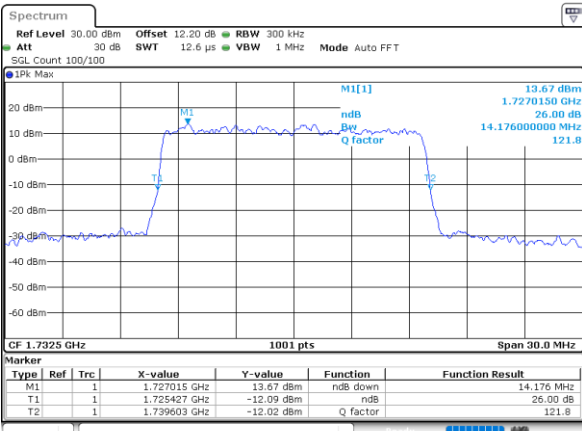
Date: 23_SEP.2022 15:28:00

Middle Channel / 10MHz / 256QAM



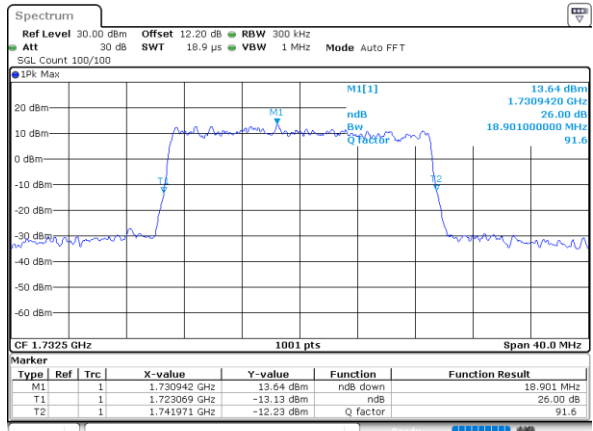
Date: 23_SEP.2022 15:55:26

Middle Channel / 15MHz / 256QAM



Date: 23_SEP.2022 16:23:14

Middle Channel / 20MHz / 256QAM



Date: 23_SEP.2022 16:51:03



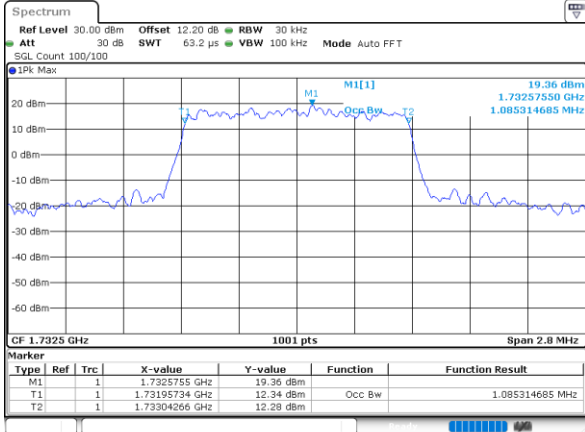
Occupied Bandwidth

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	1.09	1.09	2.72	2.72	4.50	4.49	9.07	9.03	13.46	13.37	17.86	17.86
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	1.09	1.09	2.73	2.73	4.50	4.48	9.05	9.03	13.37	13.43	17.86	17.82



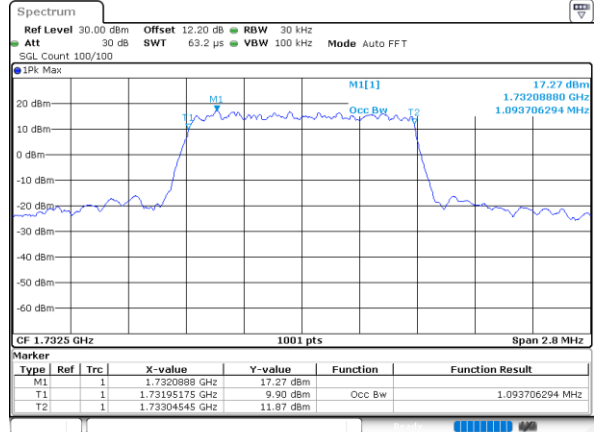
LTE Band 4

Middle Channel / 1.4MHz / QPSK



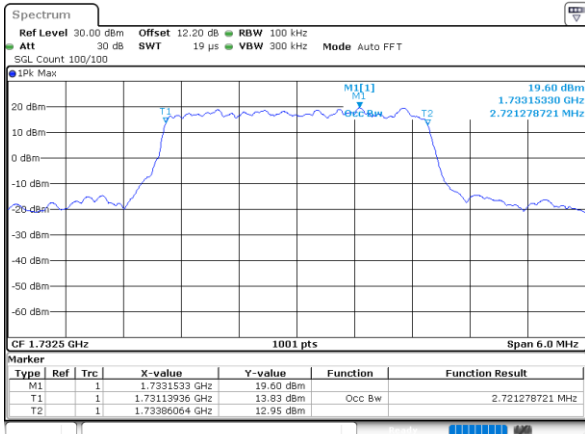
Date: 23_SEP.2022 14:17:30

Middle Channel / 1.4MHz / 16QAM



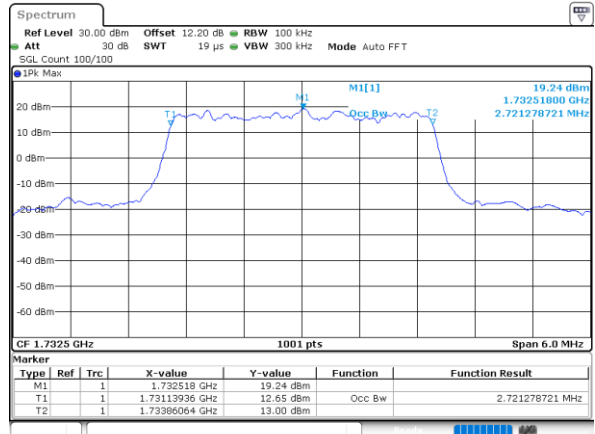
Date: 23_SEP.2022 14:17:59

Middle Channel / 3MHz / QPSK



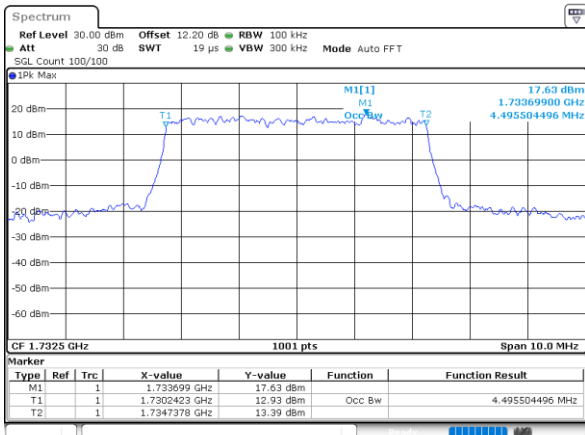
Date: 23_SEP.2022 14:45:03

Middle Channel / 3MHz / 16QAM



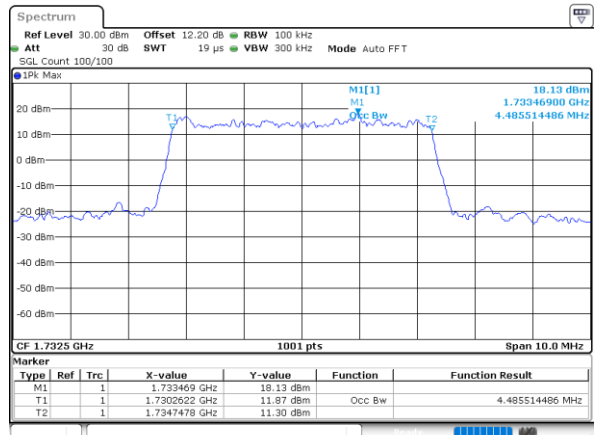
Date: 23_SEP.2022 14:45:32

Middle Channel / 5MHz / QPSK



Date: 23_SEP.2022 15:16:59

Middle Channel / 5MHz / 16QAM



Date: 23_SEP.2022 15:17:28