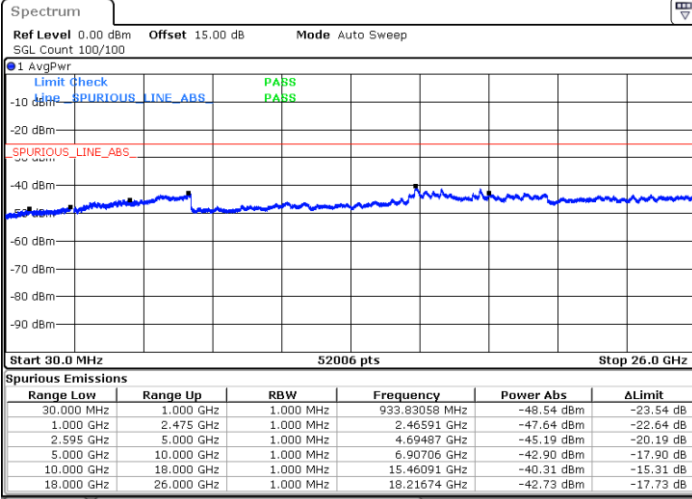




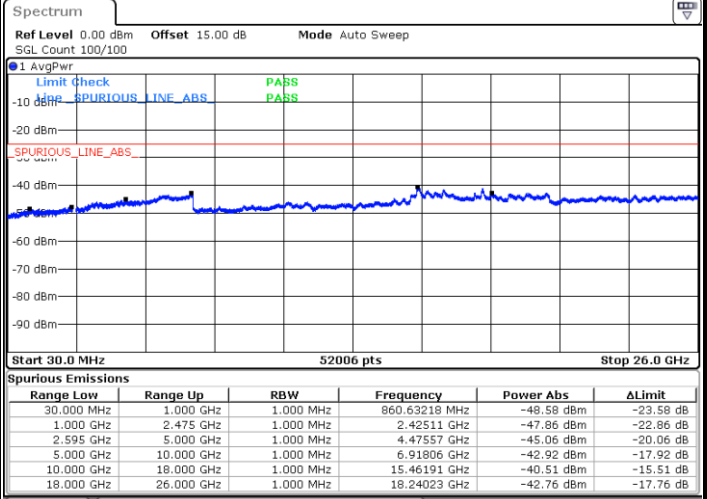
LTE Band 7 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

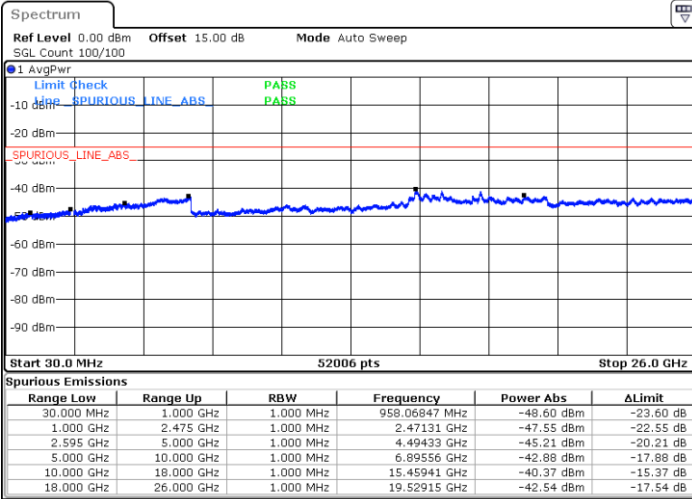


Date: 21.JUL.2022 20:12:56



Date: 21.JUL.2022 20:14:36

Highest Channel / 64QAM



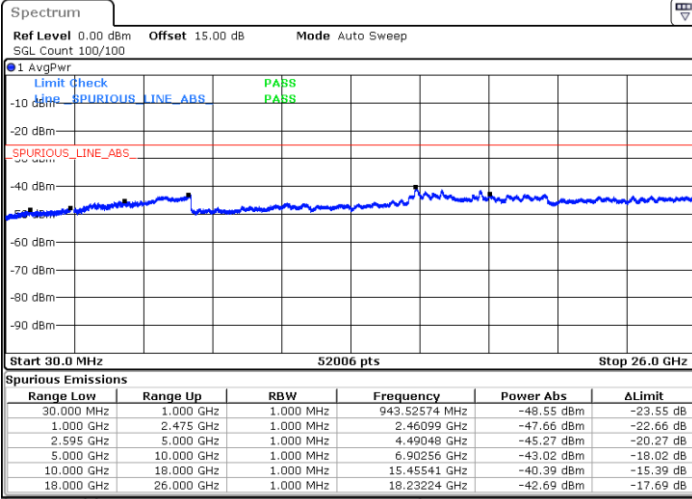
Date: 21.JUL.2022 20:18:23



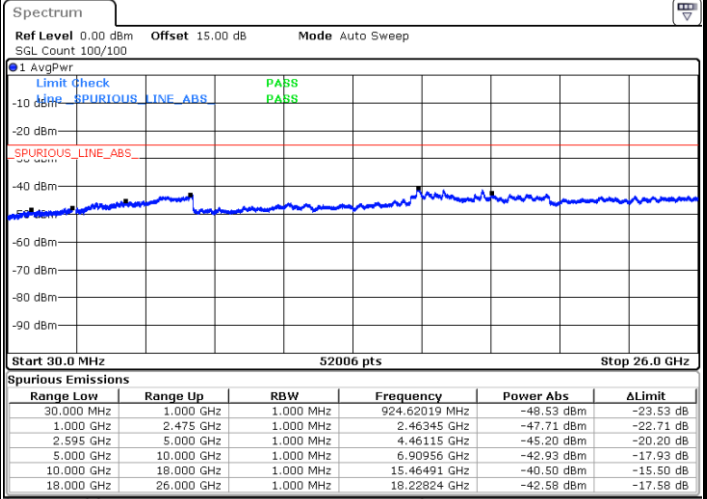
LTE Band 7 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

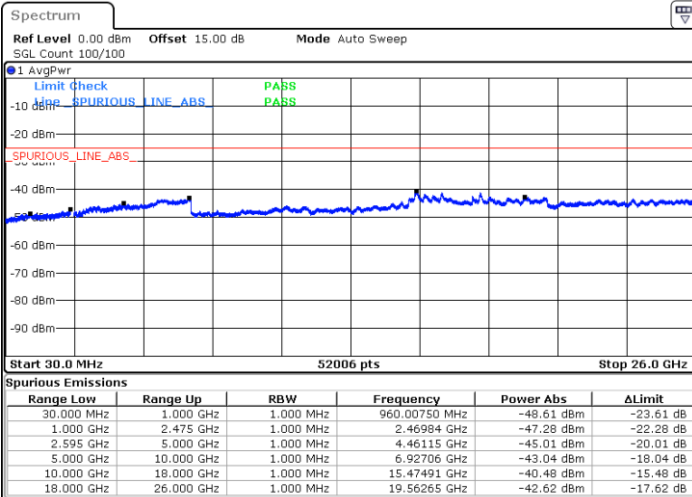


Date: 21.JUL.2022 20:43:38



Date: 21.JUL.2022 20:45:19

Highest Channel / 64QAM



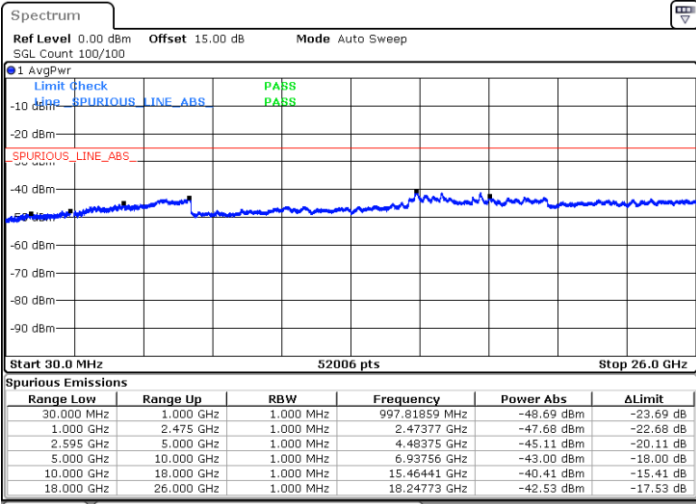
Date: 21.JUL.2022 20:49:05



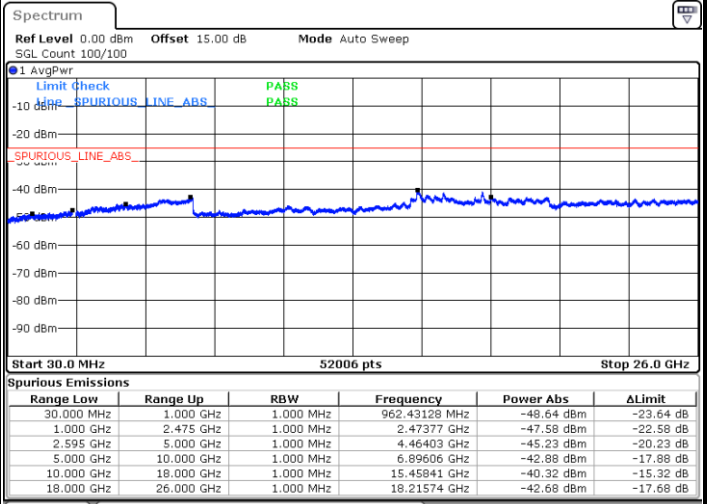
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

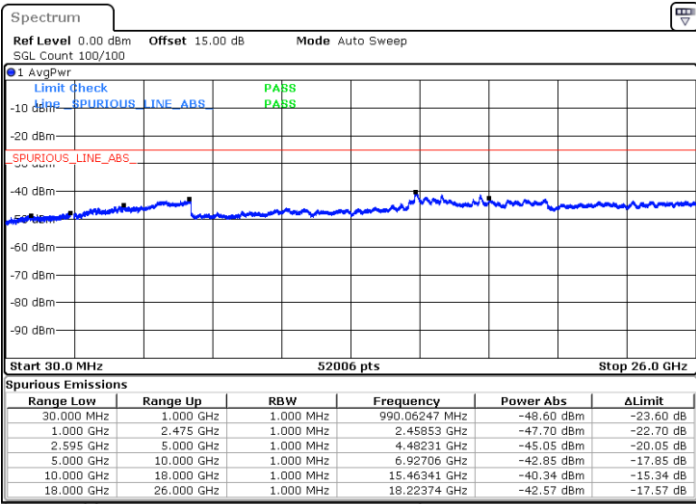


Date: 21.JUL.2022 21:20:23



Date: 21.JUL.2022 21:22:03

Highest Channel / 64QAM

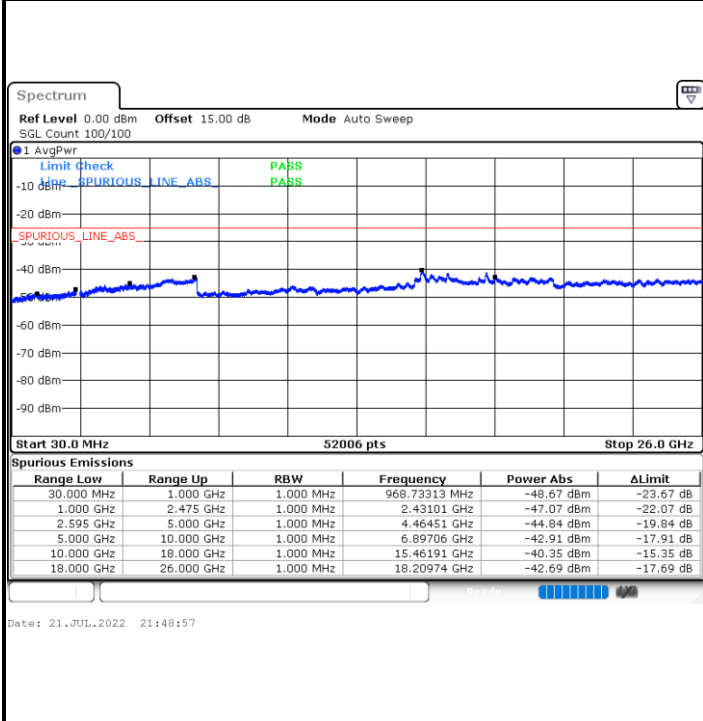


Date: 21.JUL.2022 21:25:49

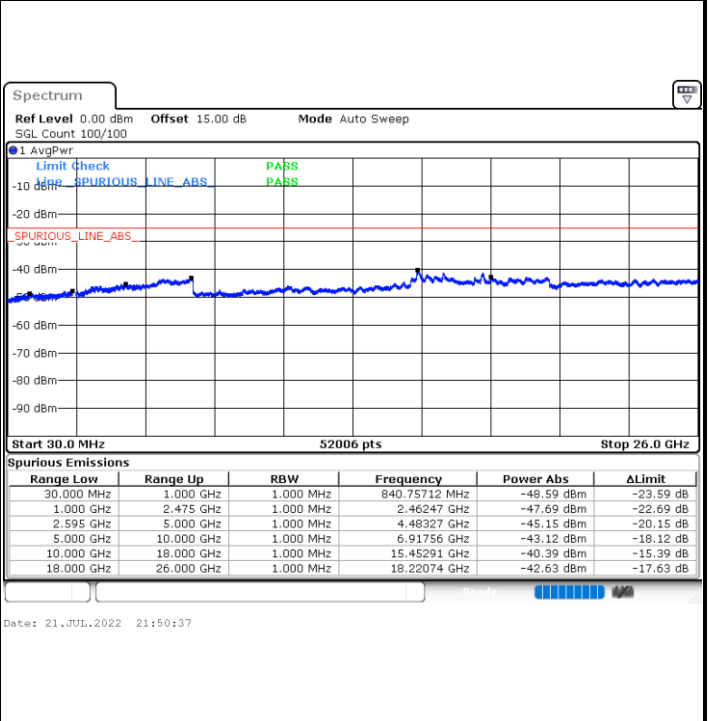


LTE Band 7 / 20MHz

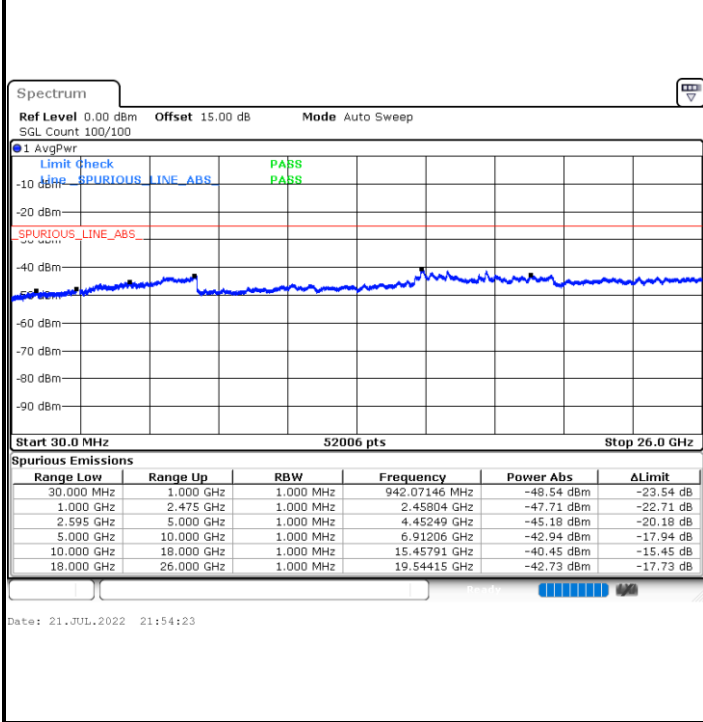
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM





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	0.0003	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

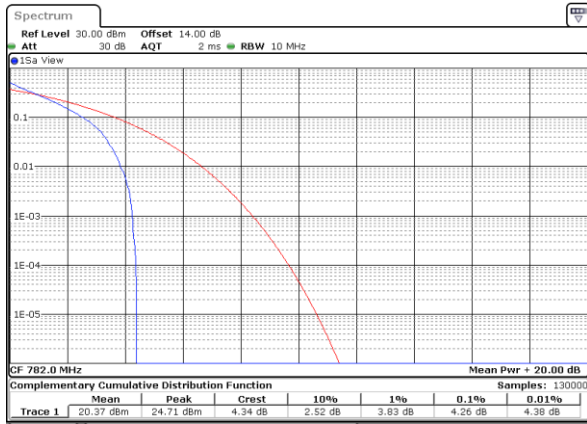
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.26	4.87	5.07	5.65	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.84	5.71	-	-	
Highest CH	-	-	-	-	



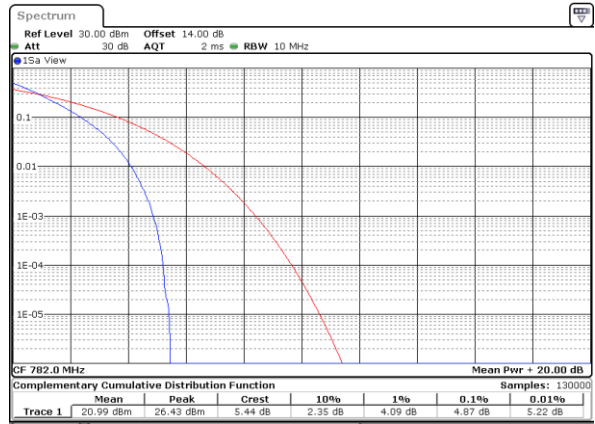
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 21_JUL_2022 23:53:33

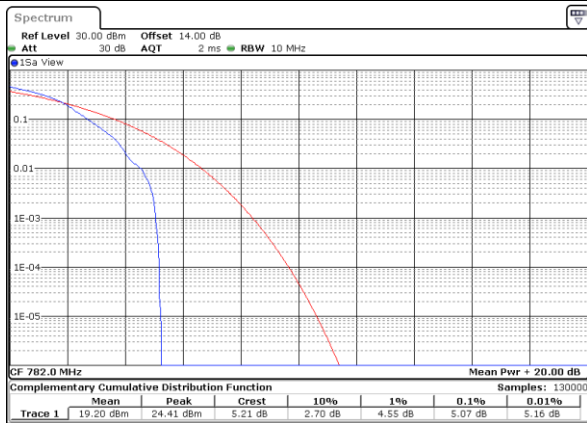
Middle Channel / Full RB



Date: 21_JUL_2022 23:53:57

LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 21_JUL_2022 23:52:41

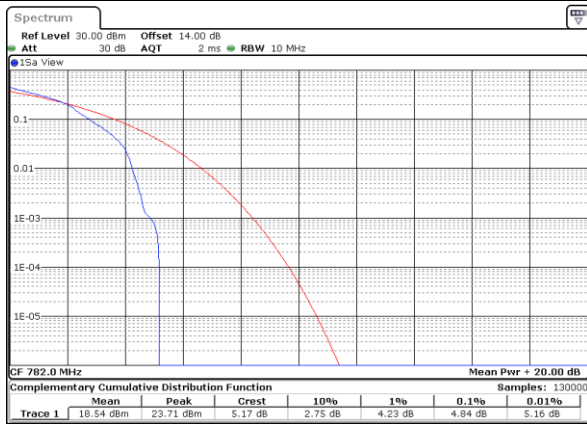
Middle Channel / Full RB



Date: 21_JUL_2022 23:53:06

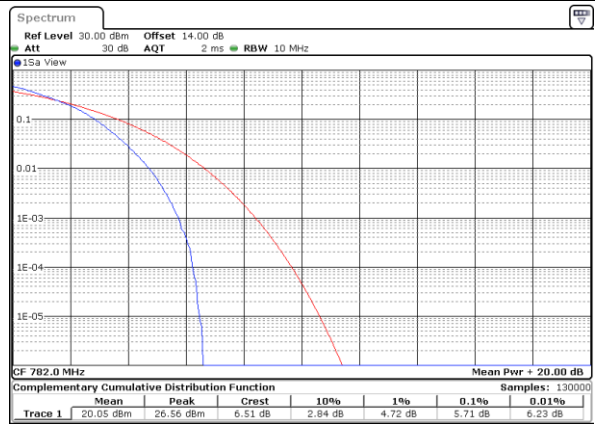
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 21_JUL_2022 23:51:52

Middle Channel / Full RB



Date: 21_JUL_2022 23:52:16



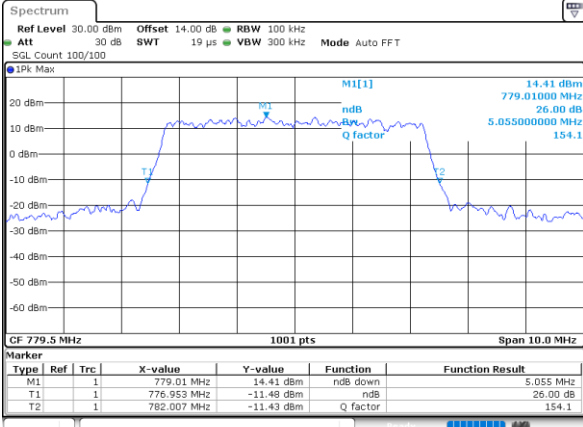
26dB Bandwidth

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
Lowest CH	-	-	-	-	5.06	4.85	-	-	-	-	-	-
Middle CH	-	-	-	-	4.84	4.84	9.85	9.89	-	-	-	-
Highest CH	-	-	-	-	4.88	4.92	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.84	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.95	-	9.71	-	-	-	-	-
Highest CH	-	-	-	-	4.88	-	-	-	-	-	-	-



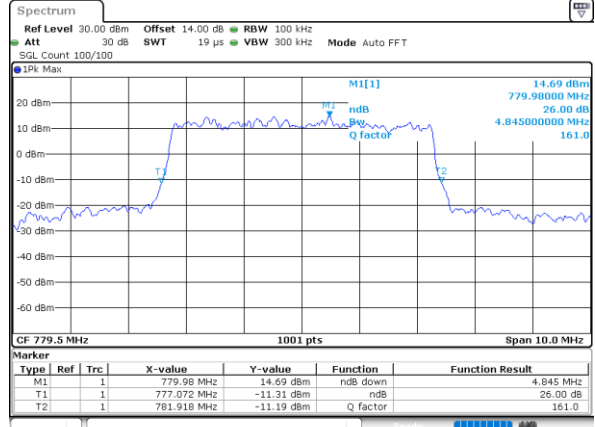
LTE Band 13

Lowest Channel / 5MHz / QPSK



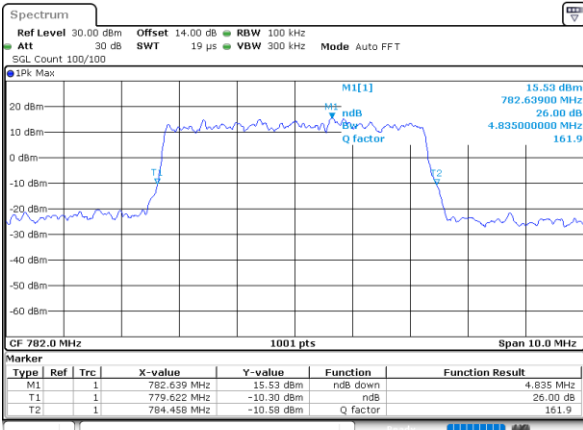
Date: 21_JUL_2022 22:36:00

Lowest Channel / 5MHz / 16QAM



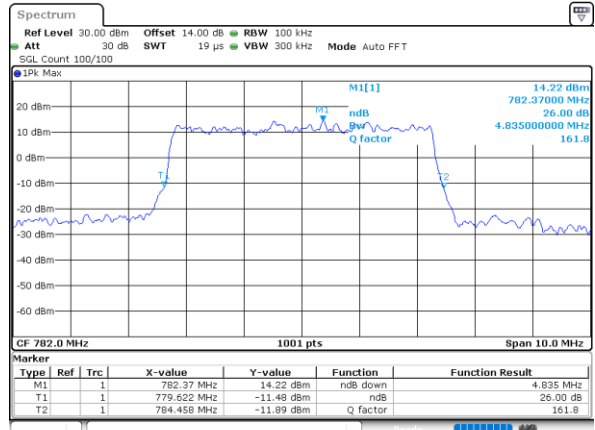
Date: 21_JUL_2022 22:35:36

Middle Channel / 5MHz / QPSK



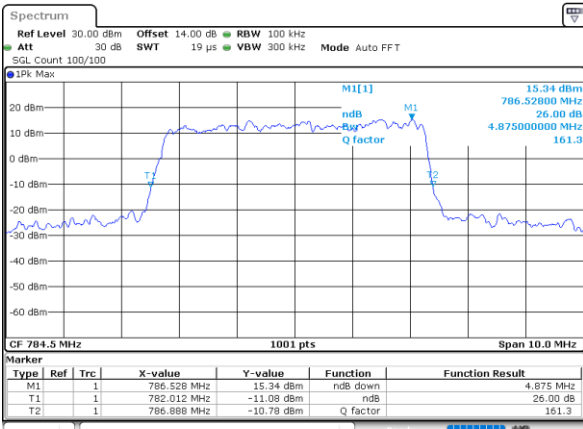
Date: 21_JUL_2022 22:47:45

Middle Channel / 5MHz / 16QAM



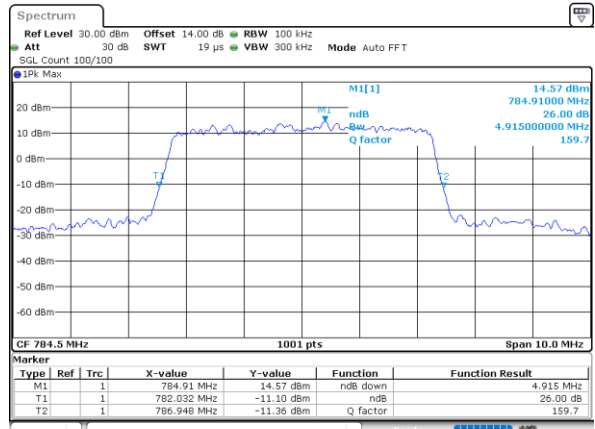
Date: 21_JUL_2022 22:48:08

Highest Channel / 5MHz / QPSK



Date: 21_JUL_2022 22:50:12

Highest Channel / 5MHz / 16QAM



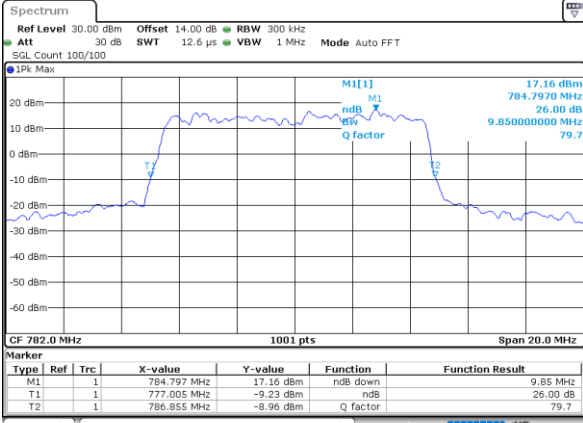
Date: 21_JUL_2022 22:49:48



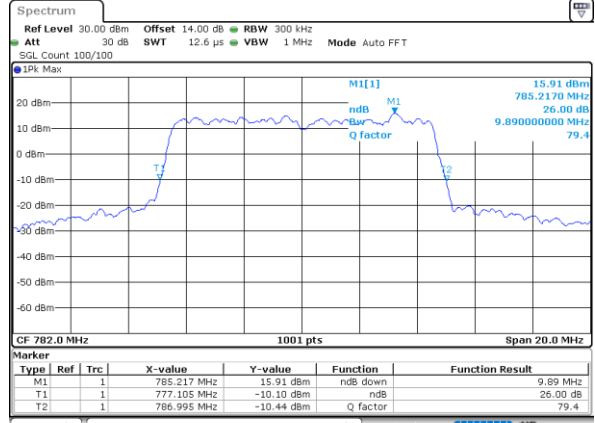
LTE Band 13

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM



Date: 21.JUL.2022 23:31:22

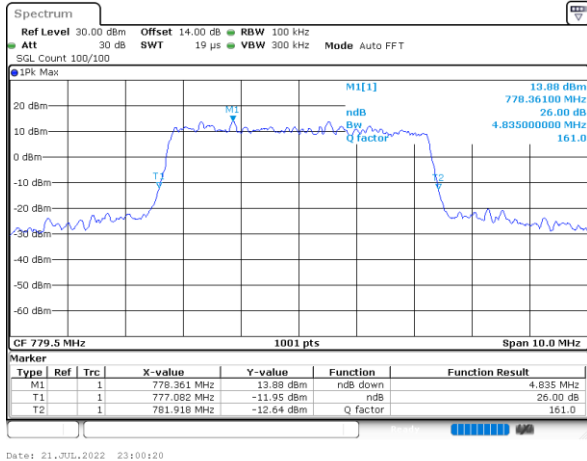


Date: 21.JUL.2022 23:30:59



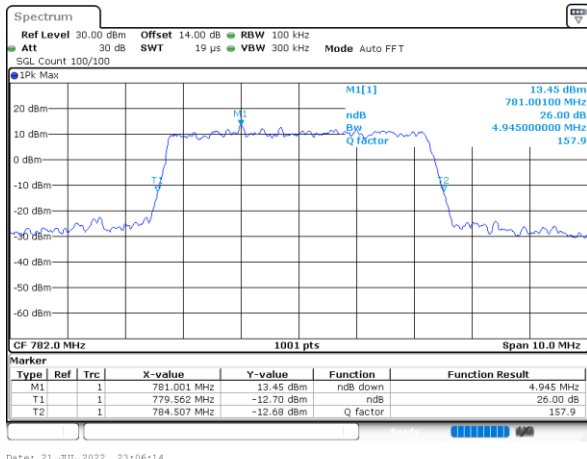
LTE Band 13

Lowest Channel / 5MHz / 64QAM



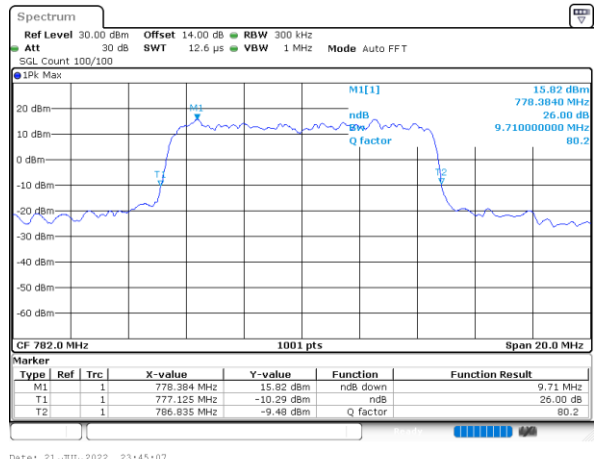
Date: 21.JUL.2022 23:00:20

Middle Channel / 5MHz / 64QAM



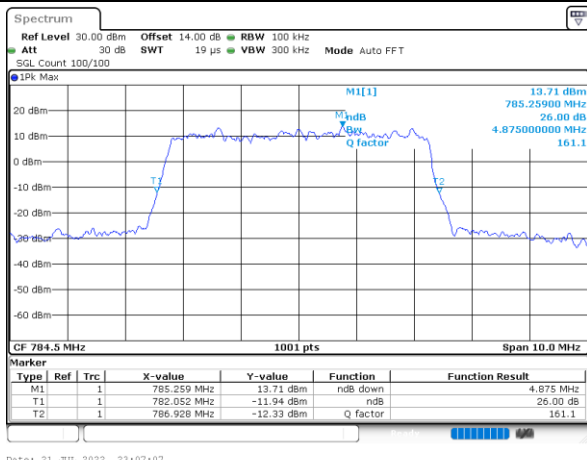
Date: 21.JUL.2022 23:06:14

Middle Channel / 10MHz / 64QAM



Date: 21.JUL.2022 23:45:07

Highest Channel / 5MHz / 64QAM



Date: 21.JUL.2022 23:07:07



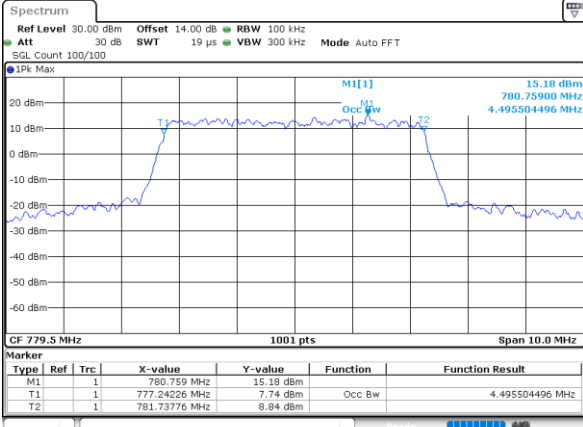
Occupied Bandwidth

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
Lowest CH	-	-	-	-	4.50	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	9.03	9.05	-	-	-	-
Highest CH	-	-	-	-	4.48	4.47	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.48	-	-	-	-	-	-	-



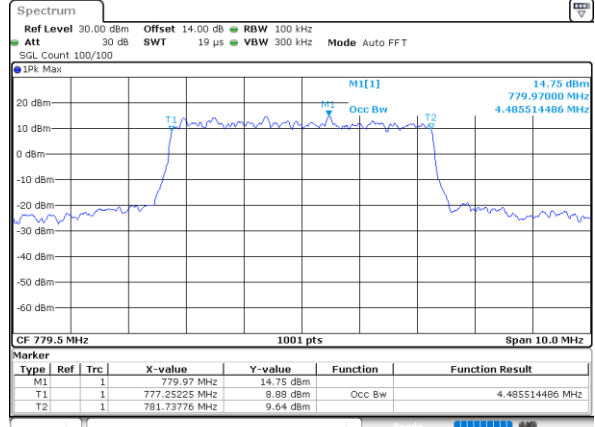
LTE Band 13

Lowest Channel / 5MHz / QPSK



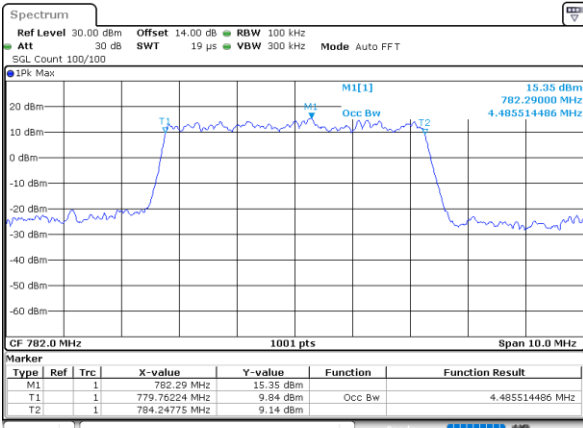
Date: 21_JUL_2022 22:34:58

Lowest Channel / 5MHz / 16QAM



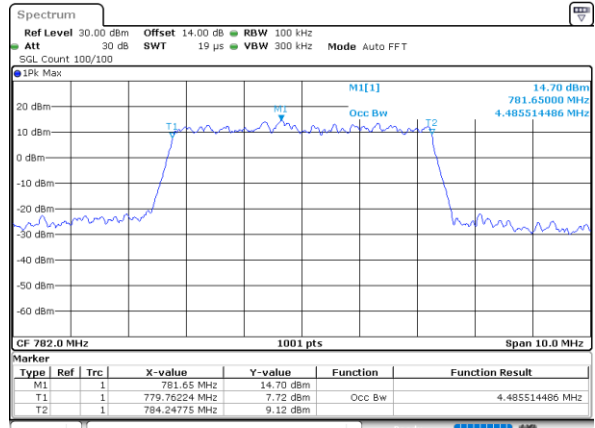
Date: 21_JUL_2022 22:35:22

Middle Channel / 5MHz / QPSK



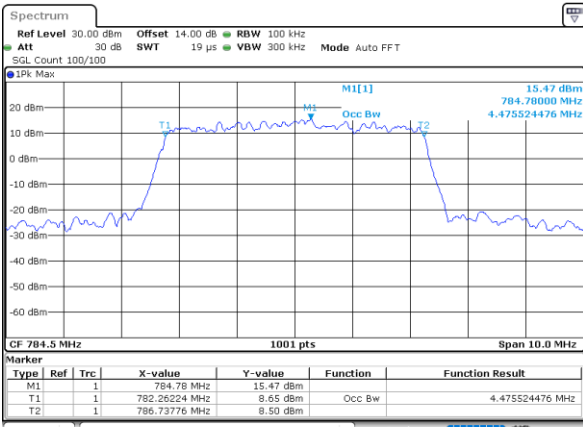
Date: 21_JUL_2022 22:48:46

Middle Channel / 5MHz / 16QAM



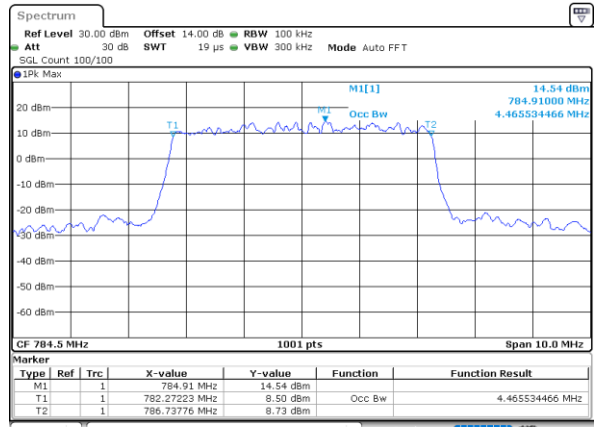
Date: 21_JUL_2022 22:48:23

Highest Channel / 5MHz / QPSK



Date: 21_JUL_2022 22:49:10

Highest Channel / 5MHz / 16QAM

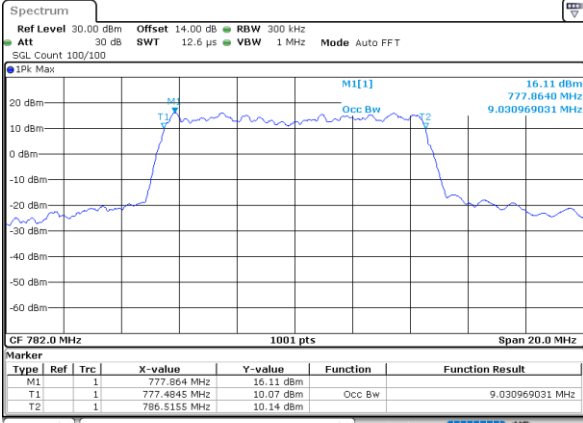


Date: 21_JUL_2022 22:49:34



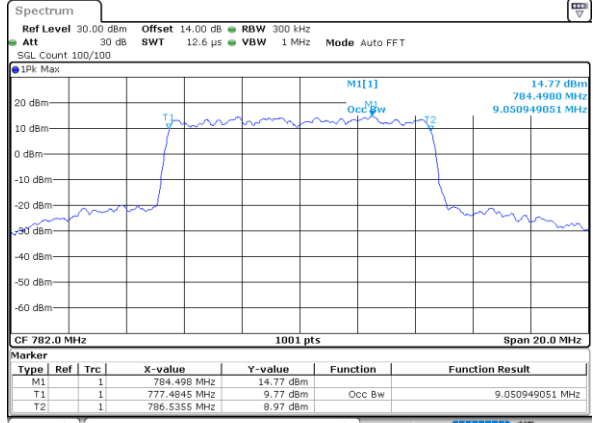
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 21.JUL.2022 23:30:21

Middle Channel / 10MHz / 16QAM

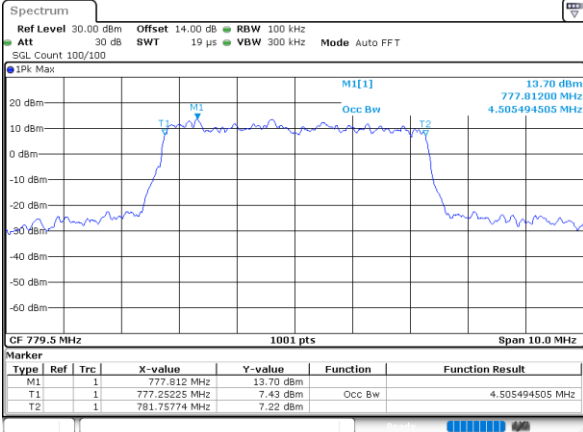


Date: 21.JUL.2022 23:30:44



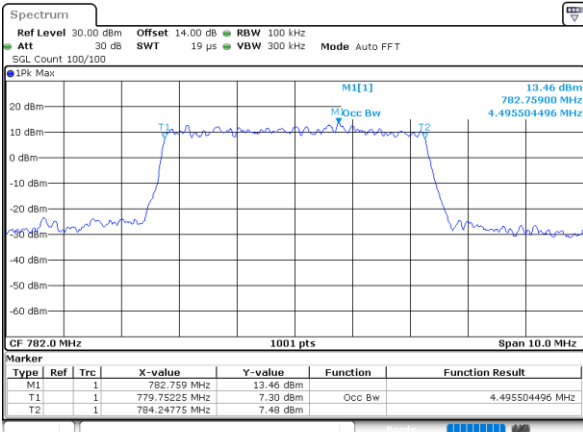
LTE Band 13

Lowest Channel / 5MHz / 64QAM



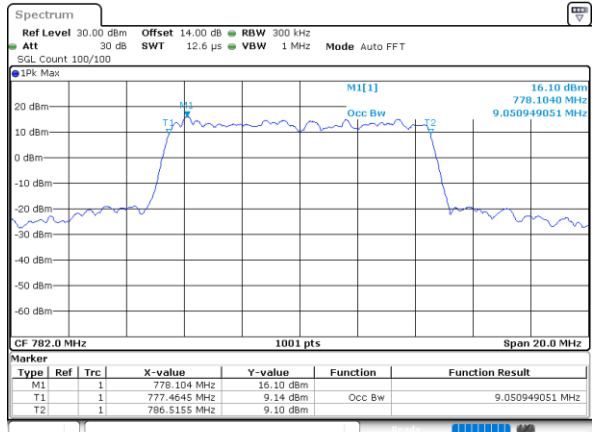
Date: 21.JUL.2022 23:00:05

Middle Channel / 5MHz / 64QAM



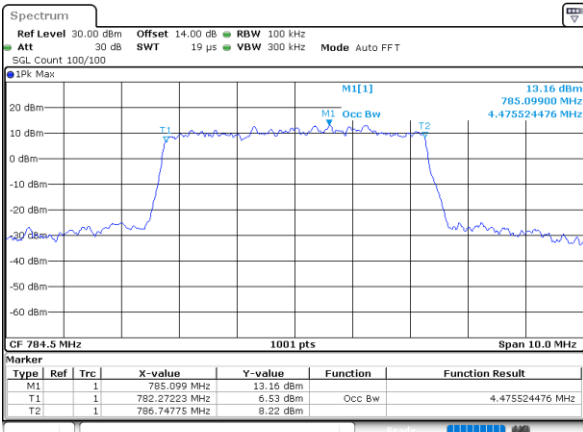
Date: 21.JUL.2022 23:06:29

Middle Channel / 10MHz / 64QAM



Date: 21.JUL.2022 23:44:53

Highest Channel / 5MHz / 64QAM



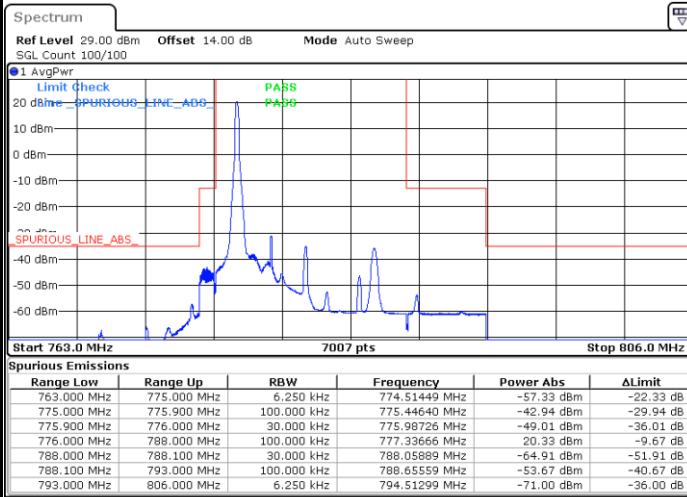
Date: 21.JUL.2022 23:06:53



Conducted Band Edge

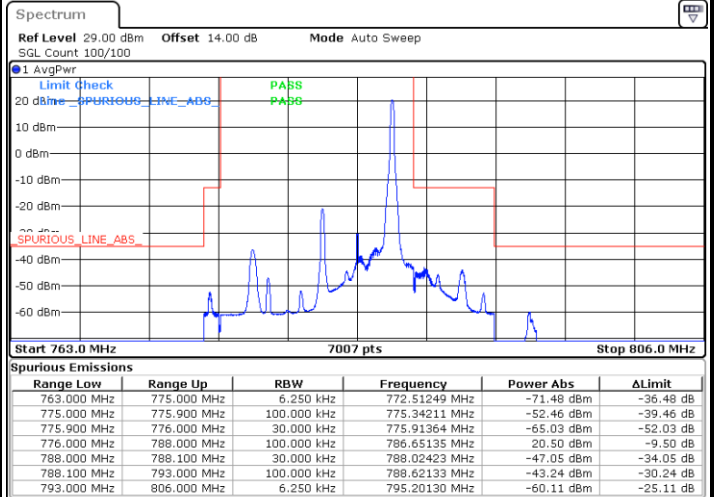
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



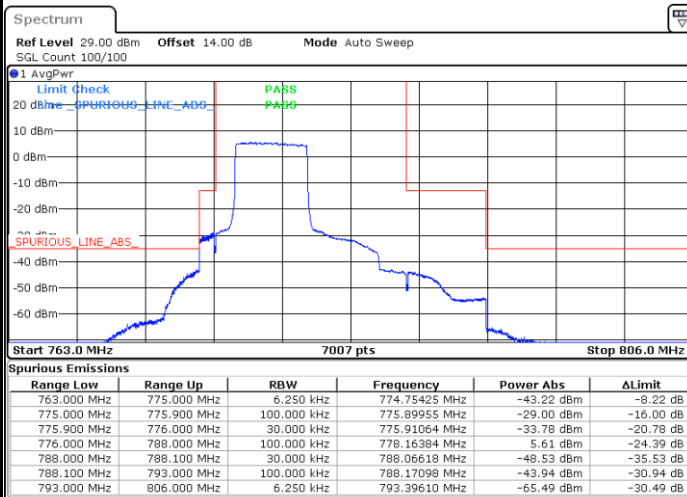
Date: 21.JUL.2022 22:43:22

Highest Band Edge / 1 RB



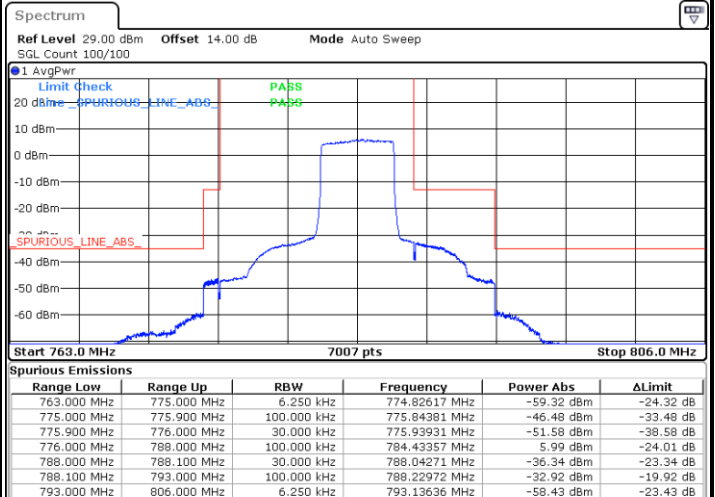
Date: 21.JUL.2022 22:57:33

Lowest Band Edge / Full RB



Date: 21.JUL.2022 22:37:43

Highest Band Edge / Full RB



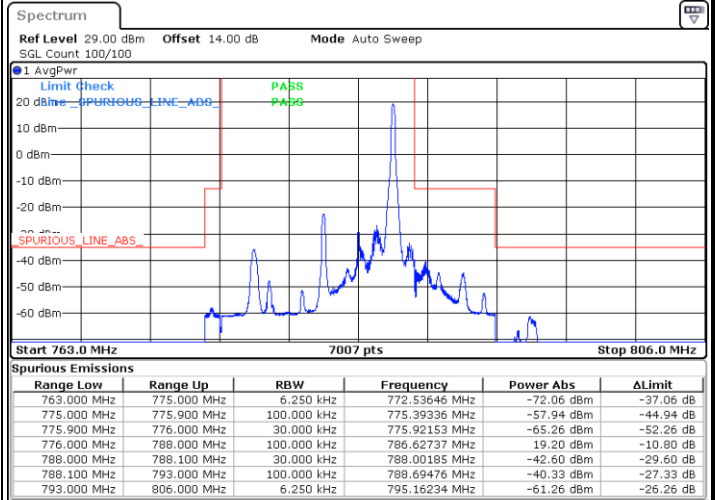
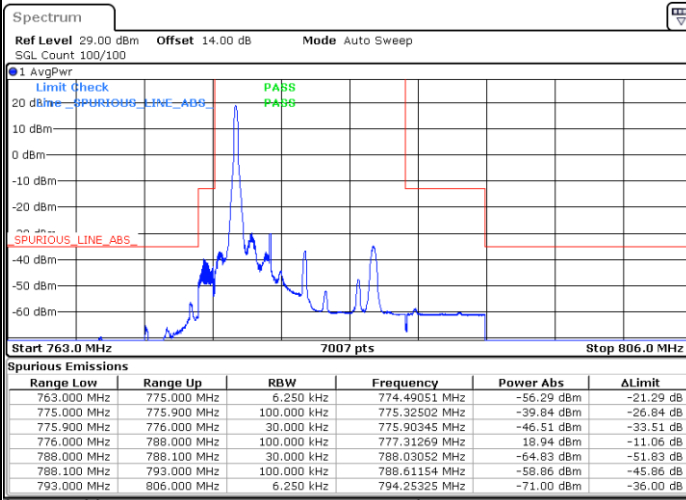
Date: 21.JUL.2022 22:51:55



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

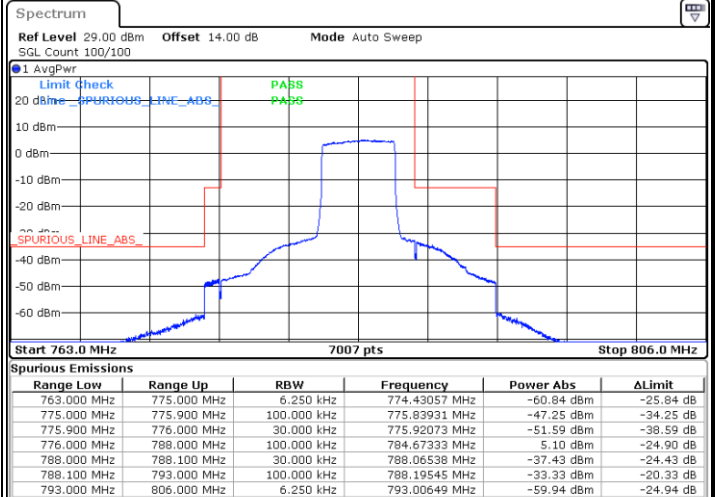
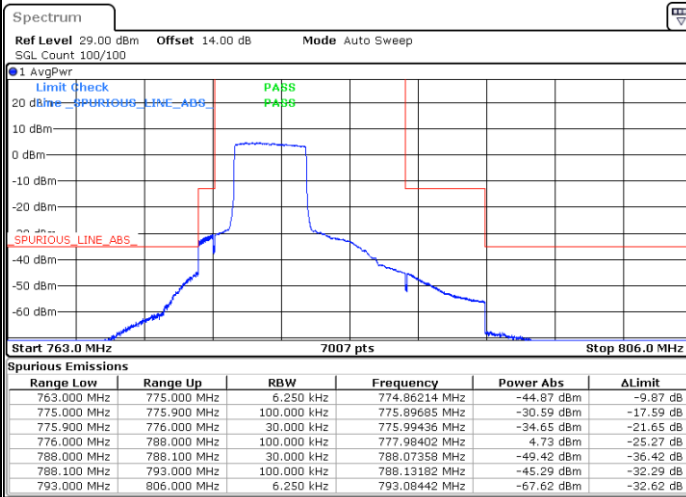


Date: 21.JUL.2022 22:41:29

Date: 21.JUL.2022 22:55:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JUL.2022 22:39:36

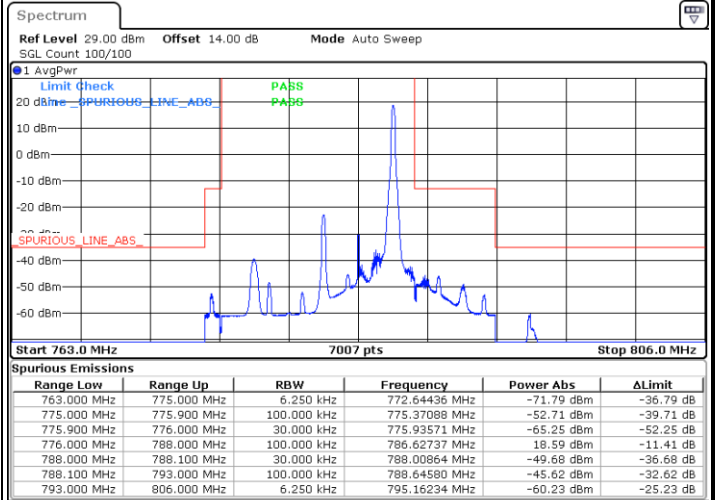
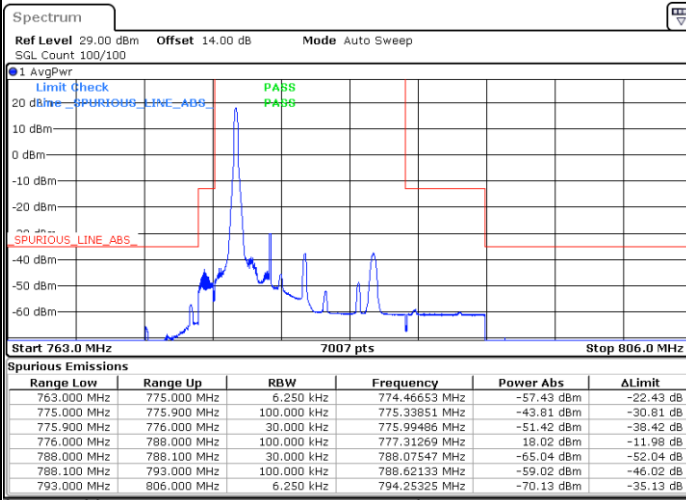
Date: 21.JUL.2022 22:53:48



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

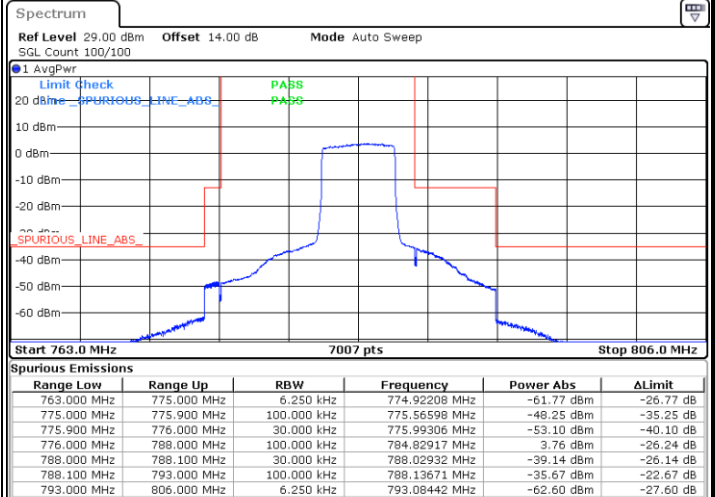
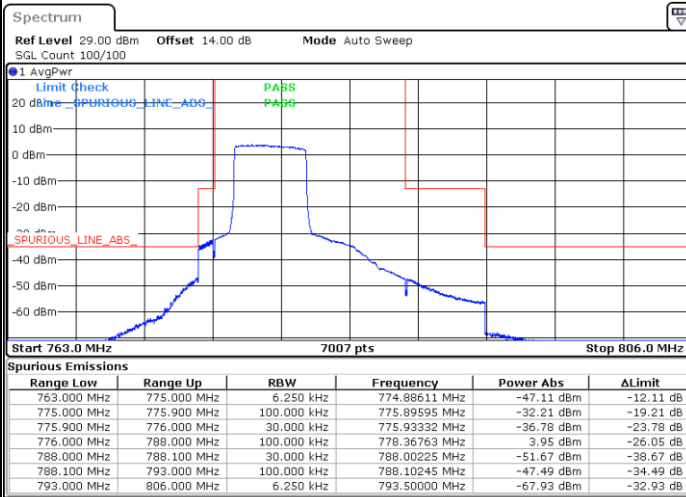


Date: 21.JUL.2022 23:03:56

Date: 21.JUL.2022 23:10:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



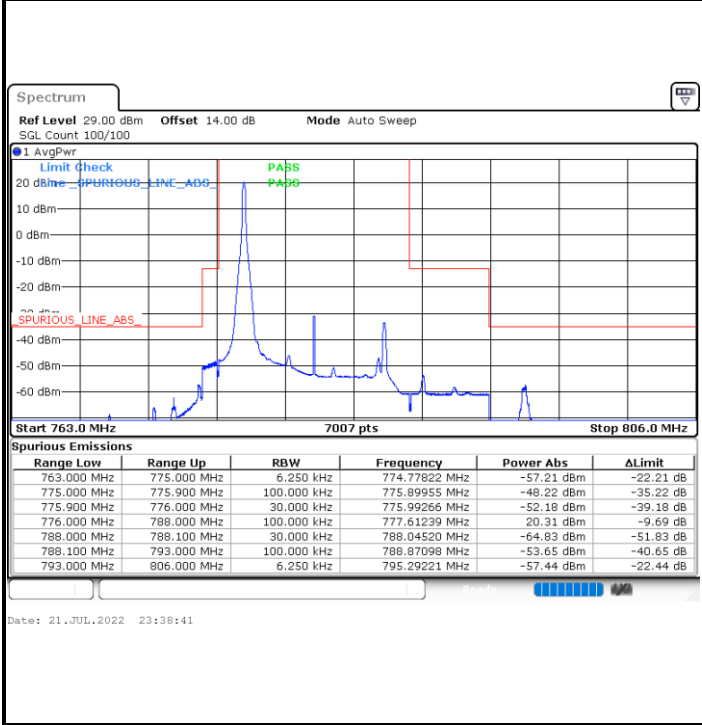
Date: 21.JUL.2022 23:02:03

Date: 21.JUL.2022 23:08:50

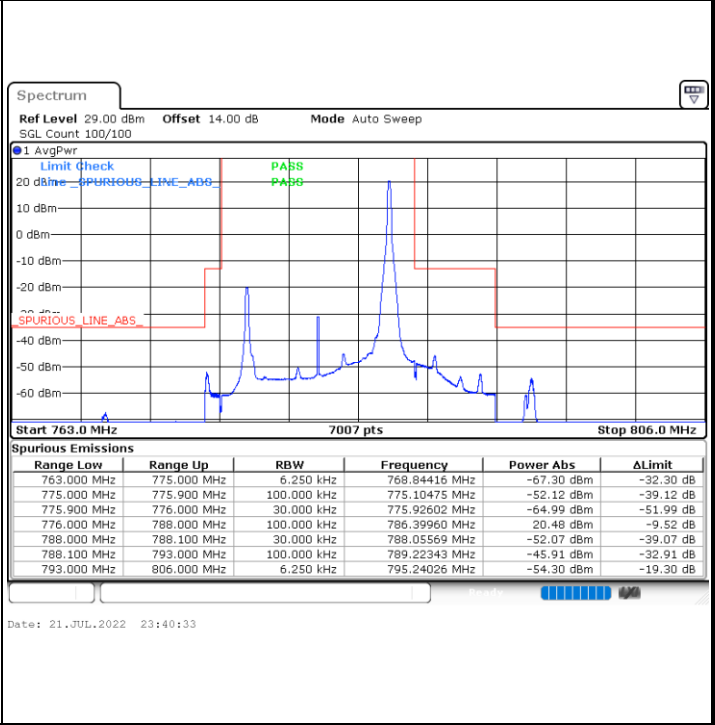


LTE Band 13 / 10MHz / QPSK

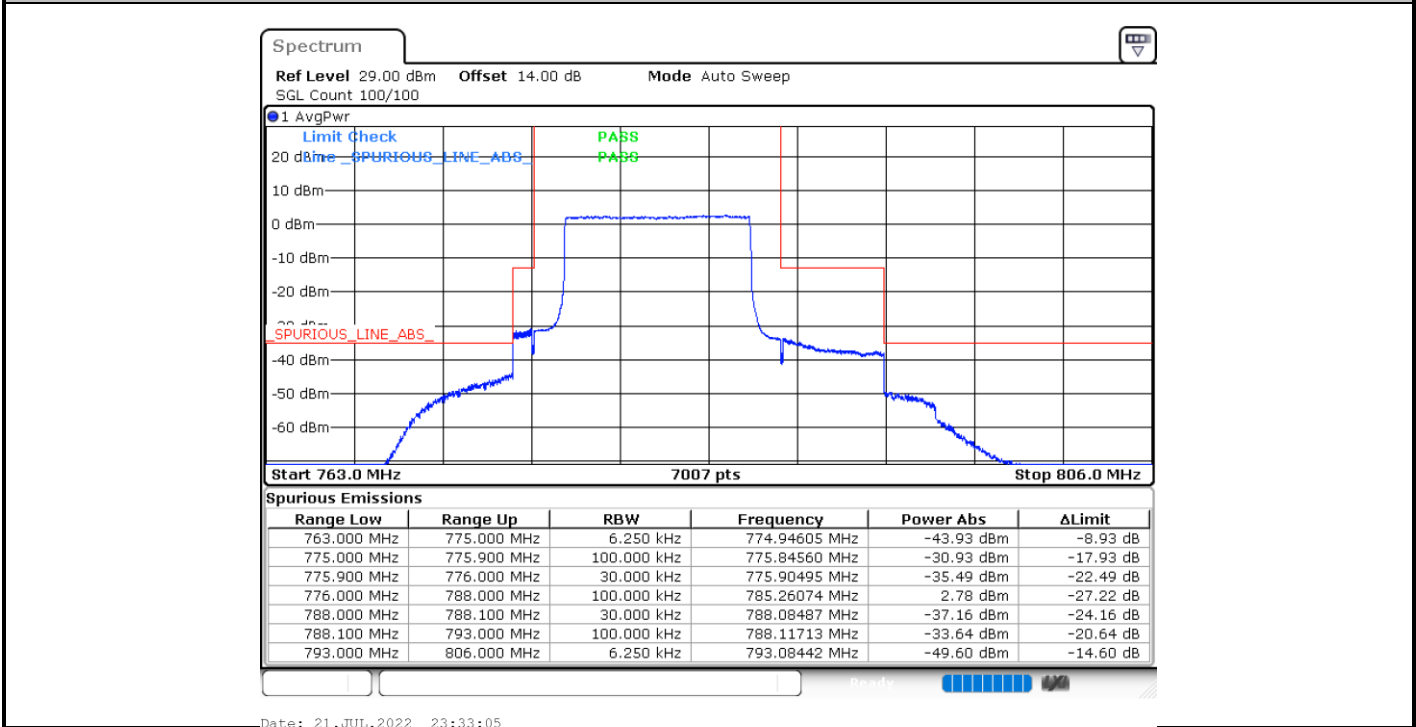
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

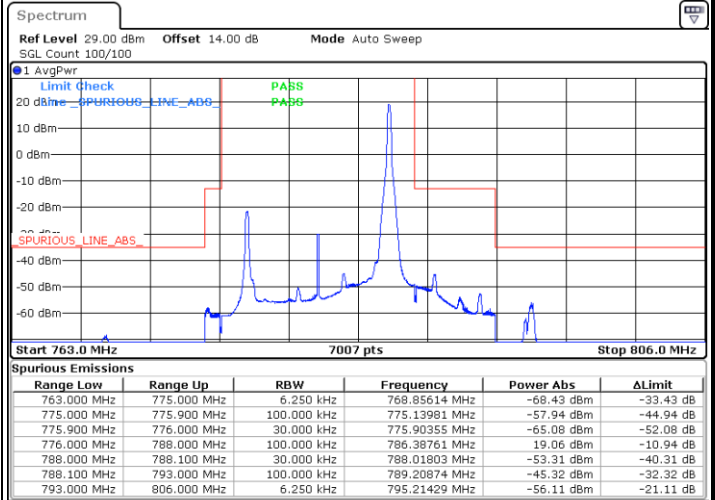
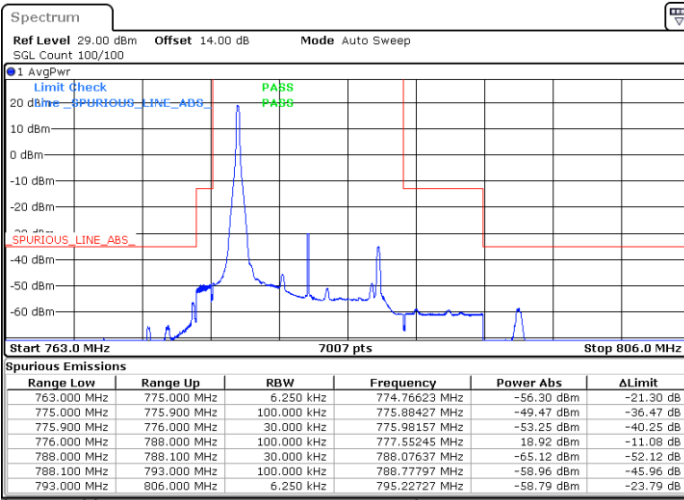




LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

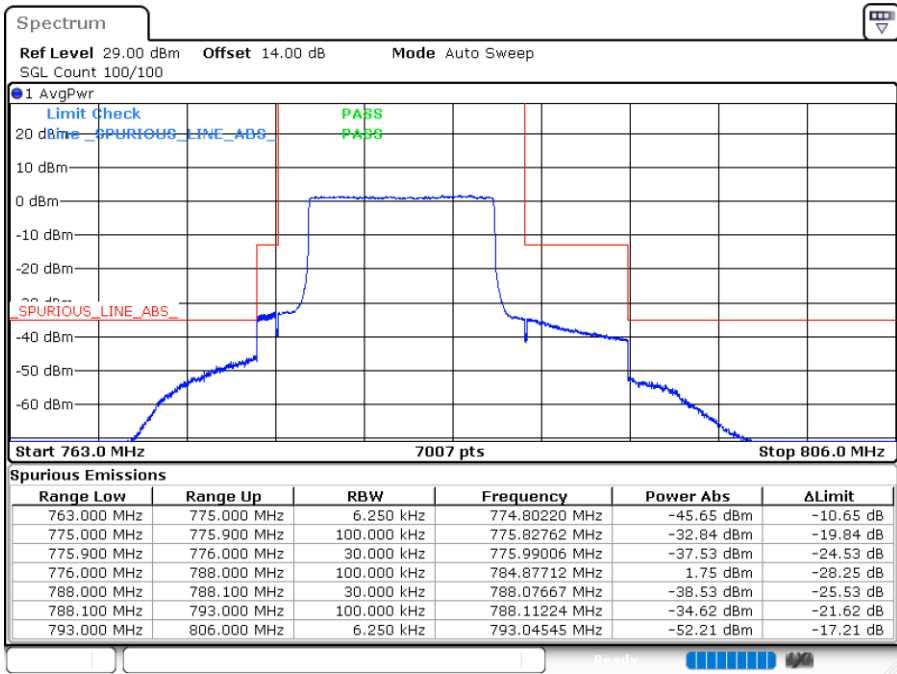
Highest Band Edge / 1 RB



Date: 21.JUL.2022 23:36:49

Date: 21.JUL.2022 23:42:25

Band Edge / Full RB

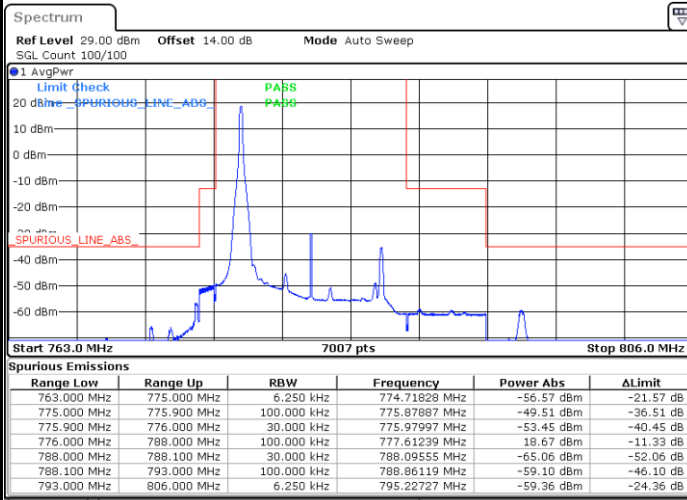


Date: 21.JUL.2022 23:34:57



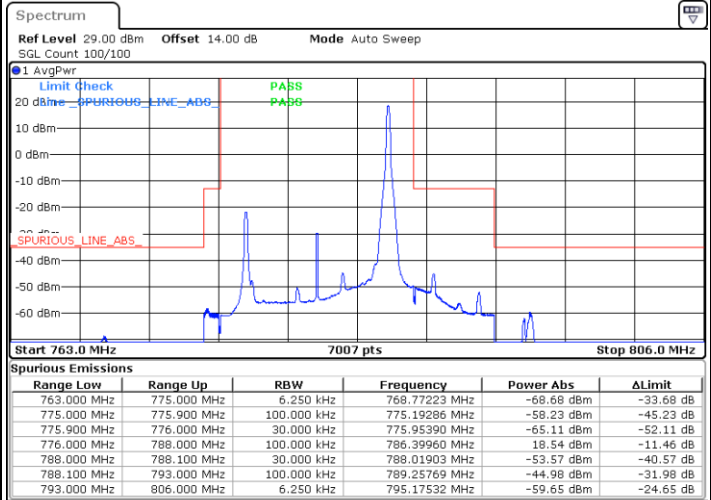
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



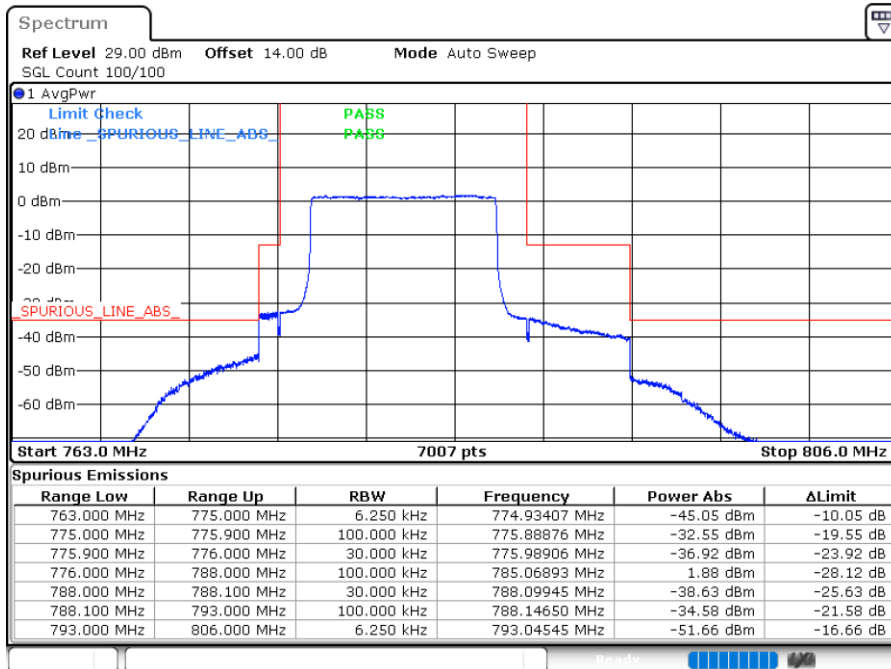
Date: 21.JUL.2022 23:48:42

Highest Band Edge / 1 RB



Date: 21.JUL.2022 23:50:34

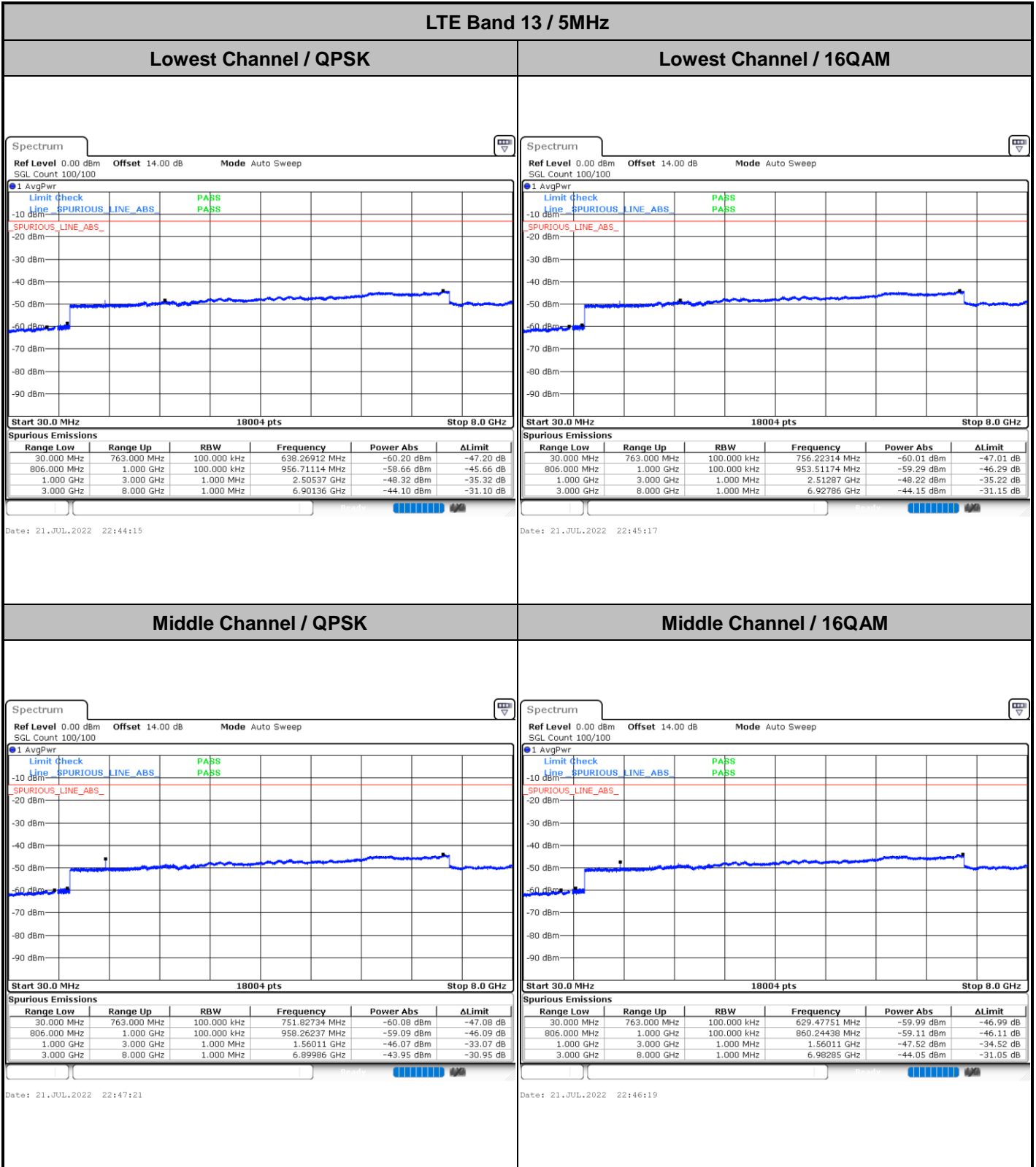
Band Edge / Full RB



Date: 21.JUL.2022 23:46:50



Conducted Spurious Emission

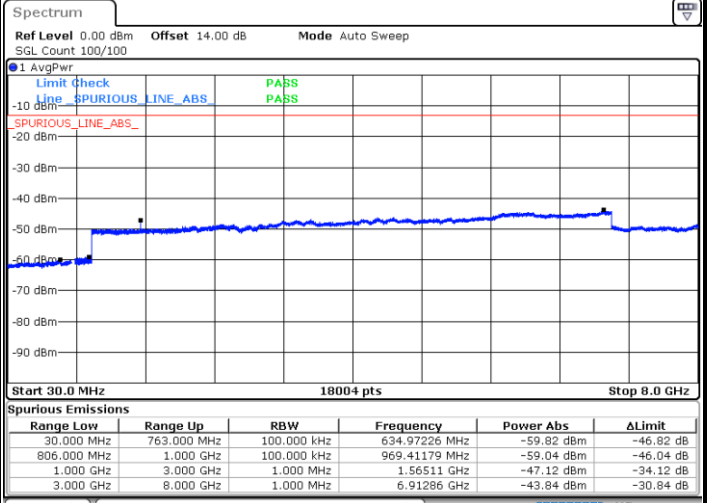
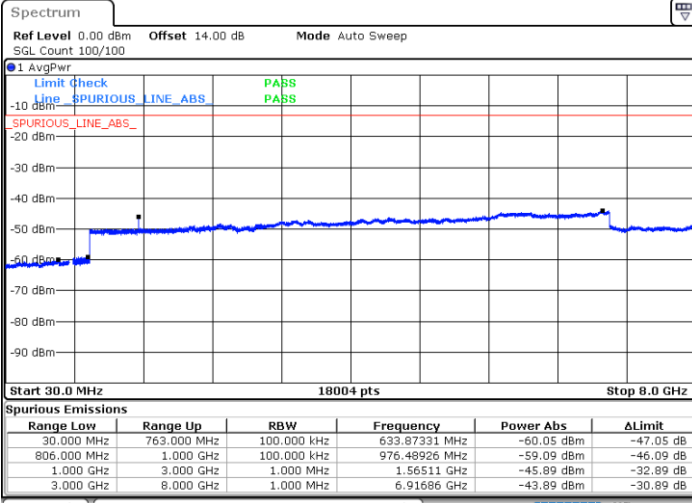




LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



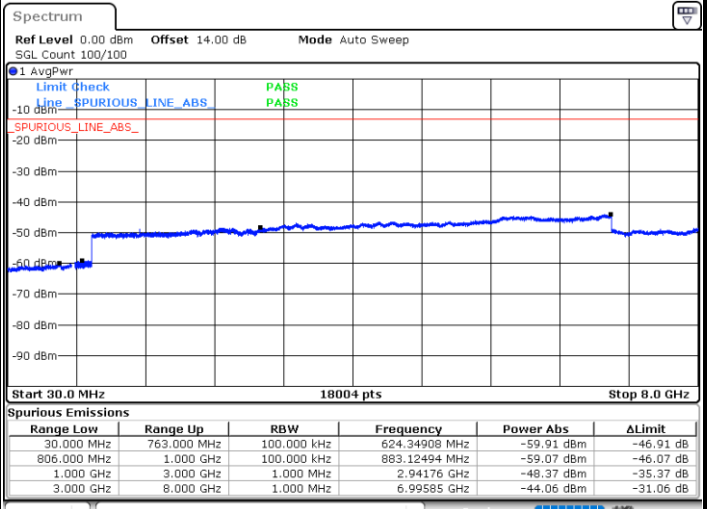
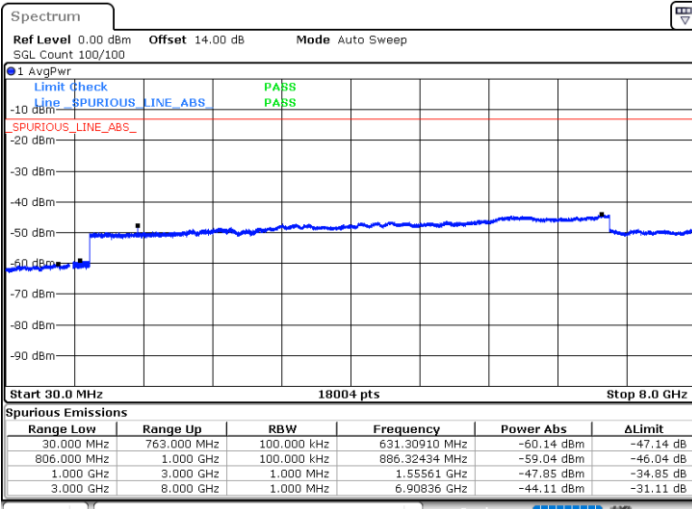
Date: 21.JUL.2022 22:58:36

Date: 21.JUL.2022 22:59:41

LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



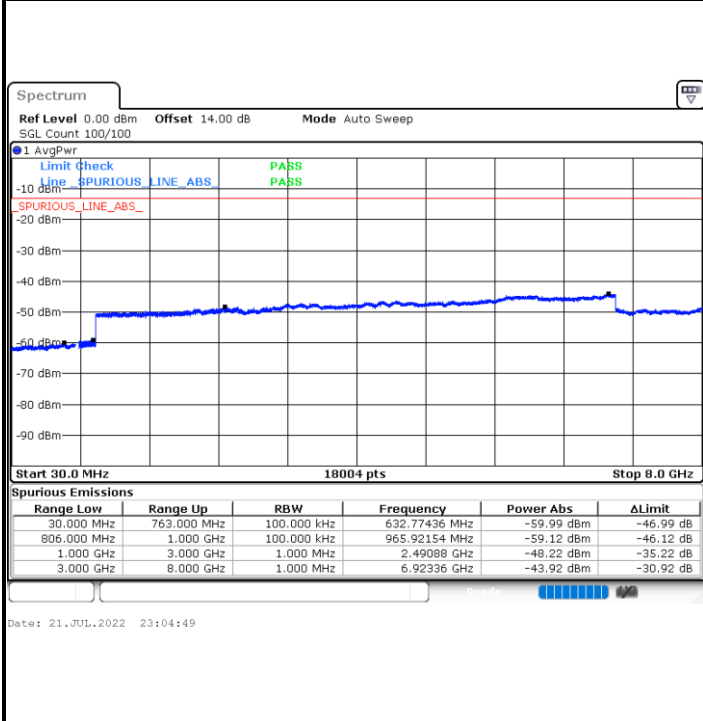
Date: 21.JUL.2022 23:44:29

Date: 21.JUL.2022 23:43:27

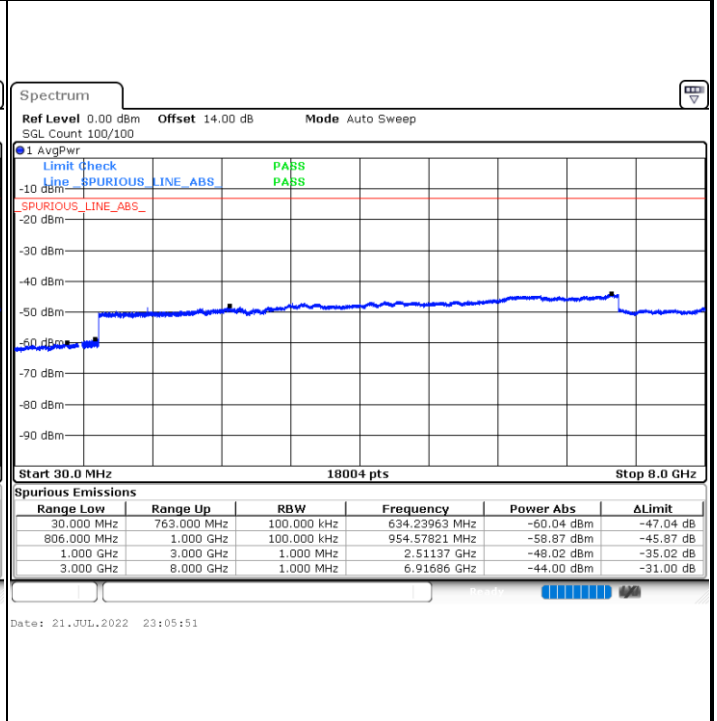


LTE Band 13 / 5MHz

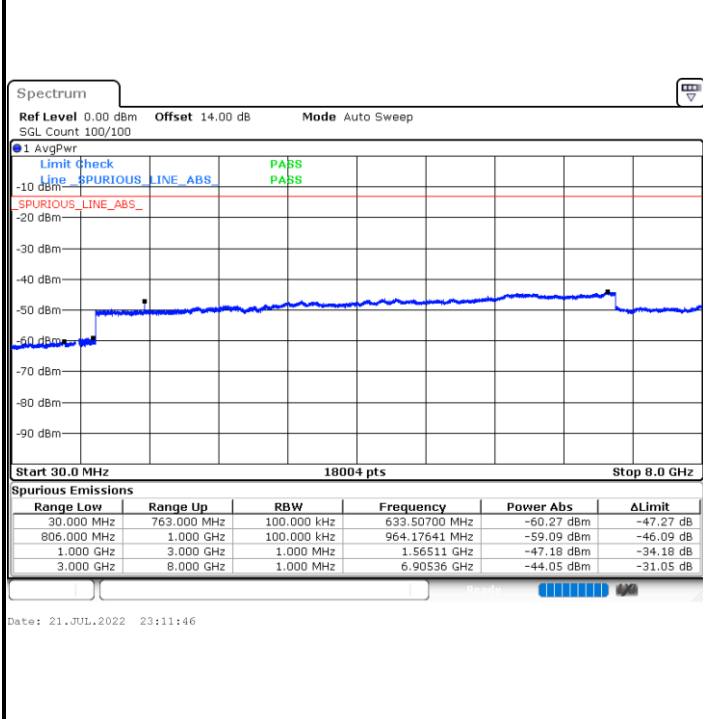
Lowest Channel / 64QAM



Middle Channel / 64QAM



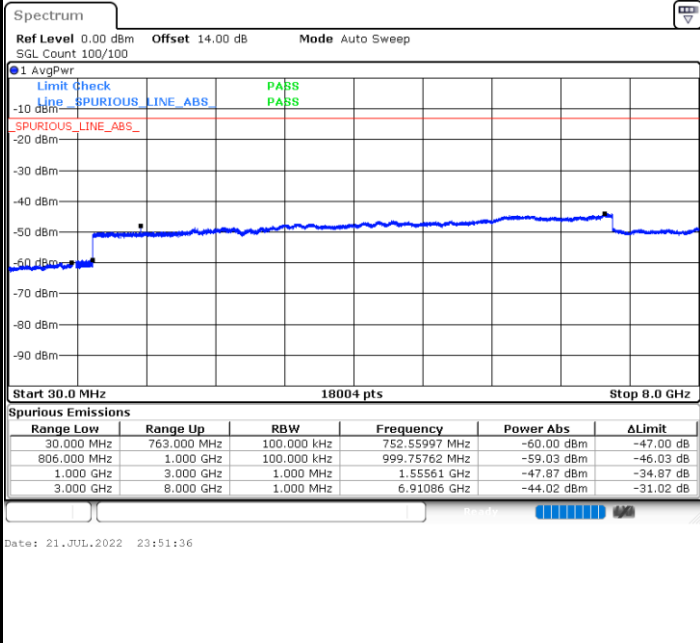
Highest Channel / 64QAM





LTE Band 13 / 10MHz

Middle Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

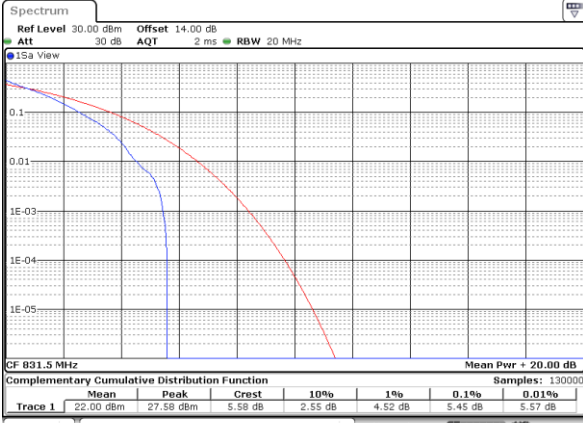
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.45	5.30	6.55	6.06	PASS
Middle CH	5.19	5.30	6.52	6.09	
Highest CH	4.67	5.30	6.14	6.03	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.49	6.20	-	-	PASS
Middle CH	6.67	6.32	-	-	
Highest CH	6.49	6.26	-	-	



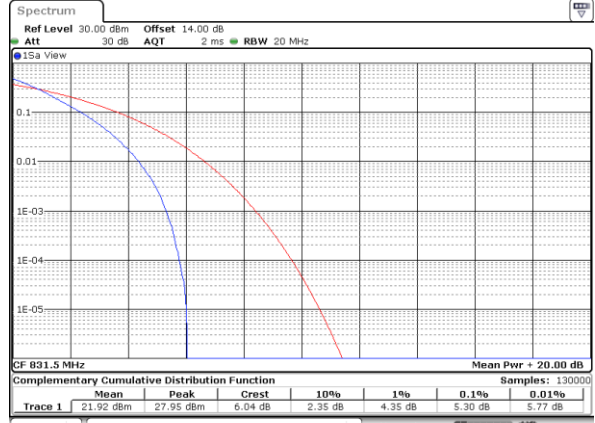
LTE Band 26 / 15MHz / QPSK

Lowest Channel / 1RB



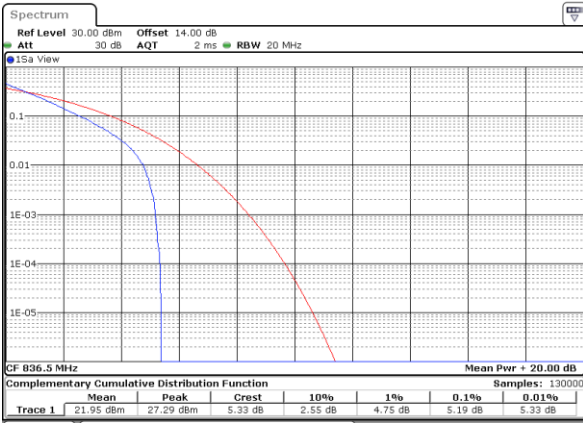
Date: 21.JUL.2022 16:17:51

Lowest Channel / Full RB



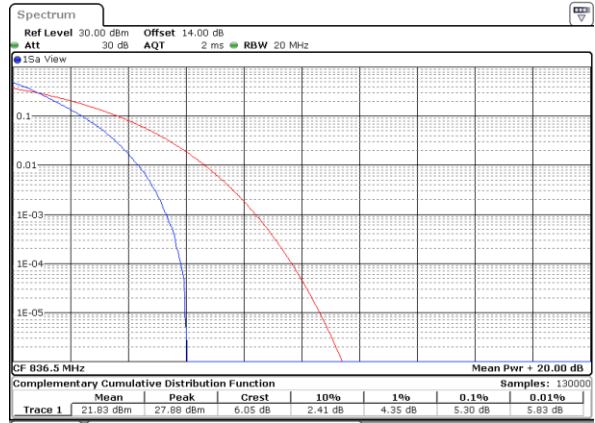
Date: 21.JUL.2022 16:16:36

Middle Channel / 1RB



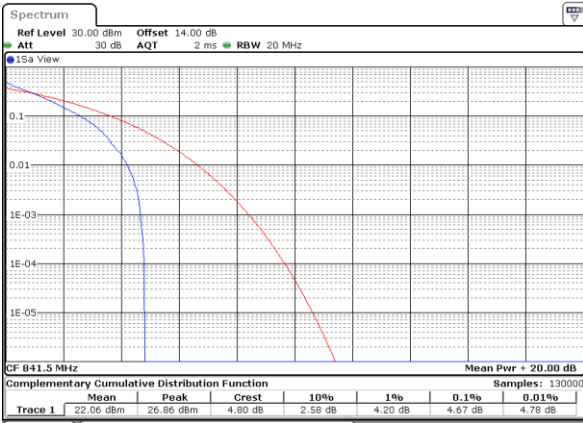
Date: 21.JUL.2022 16:18:17

Middle Channel / Full RB



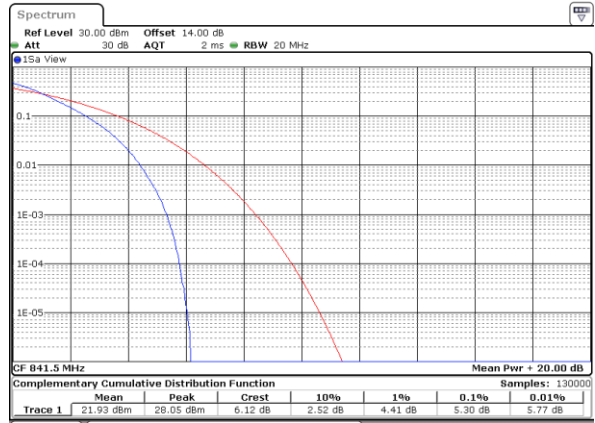
Date: 21.JUL.2022 16:19:34

Highest Channel / 1RB



Date: 21.JUL.2022 16:21:17

Highest Channel / Full RB

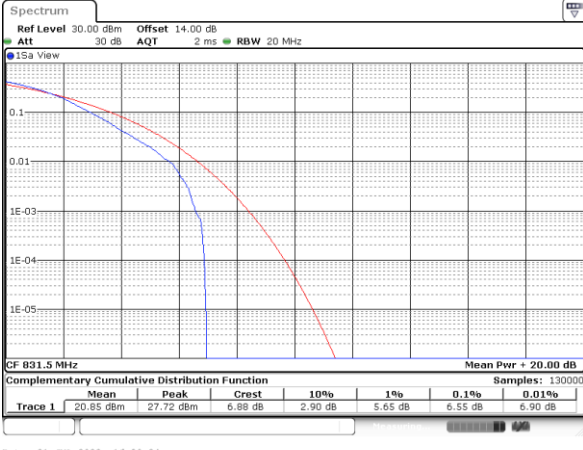


Date: 21.JUL.2022 16:20:00



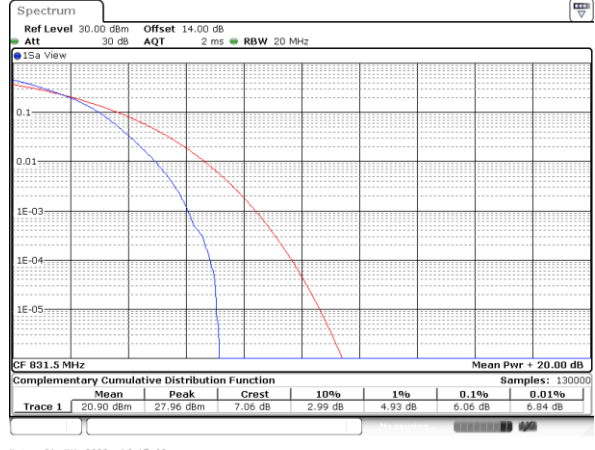
LTE Band 26 / 15MHz / 16QAM

Lowest Channel / 1RB



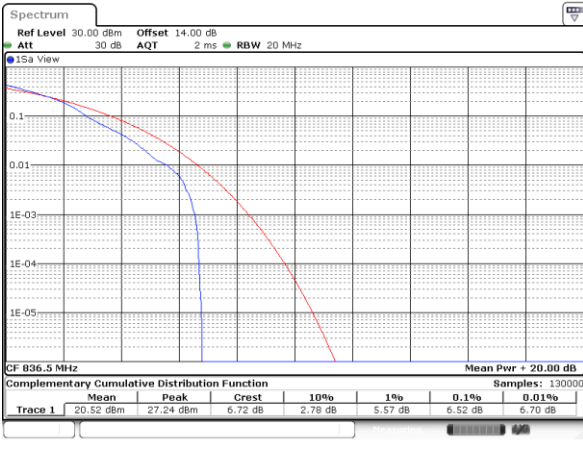
Date: 21.JUL.2022 16:30:24

Lowest Channel / Full RB



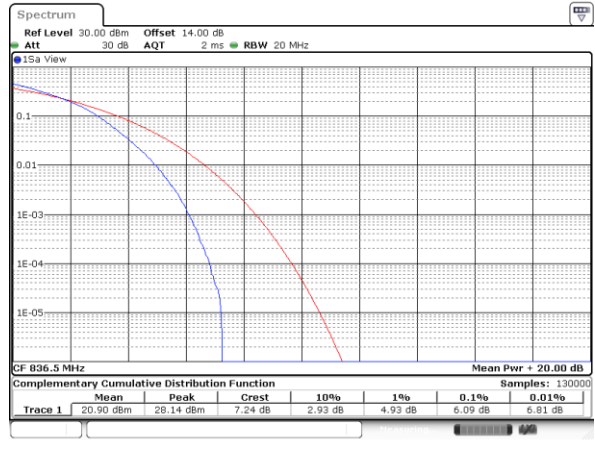
Date: 21.JUL.2022 16:17:02

Middle Channel / 1RB



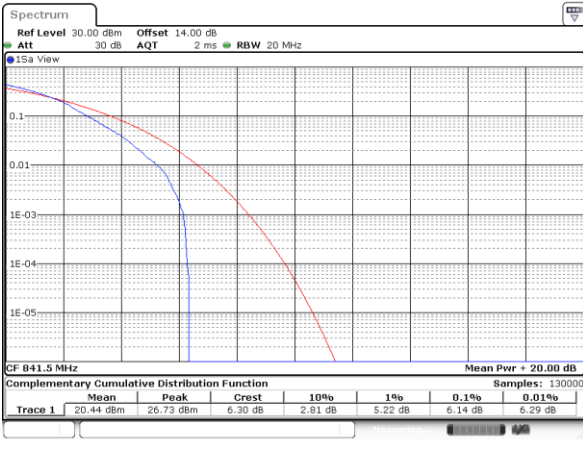
Date: 21.JUL.2022 16:18:42

Middle Channel / Full RB



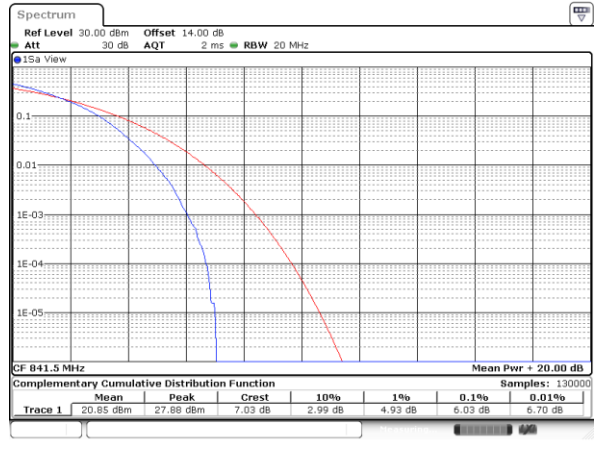
Date: 21.JUL.2022 16:19:08

Highest Channel / 1RB



Date: 21.JUL.2022 16:20:51

Highest Channel / Full RB

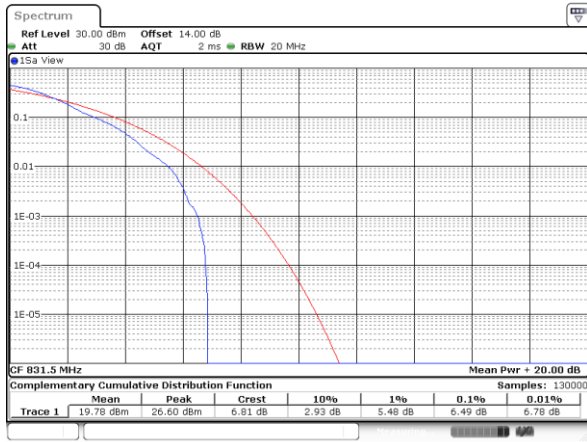


Date: 21.JUL.2022 16:20:26



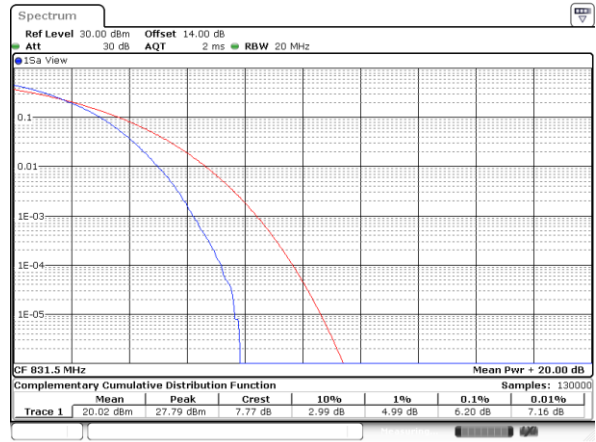
LTE Band 26 / 15MHz / 64QAM

Lowest Channel / 1RB



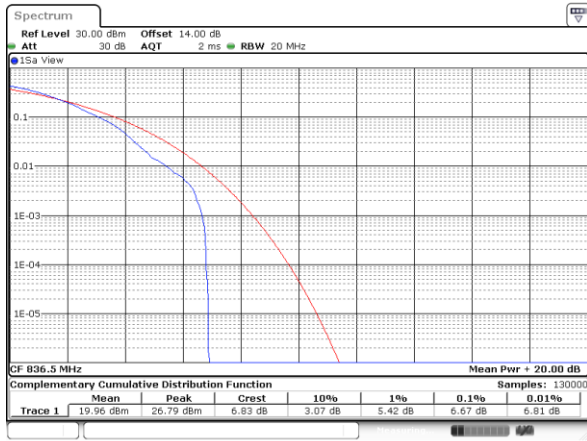
Date: 21.JUL.2022 16:28:45

Lowest Channel / Full RB



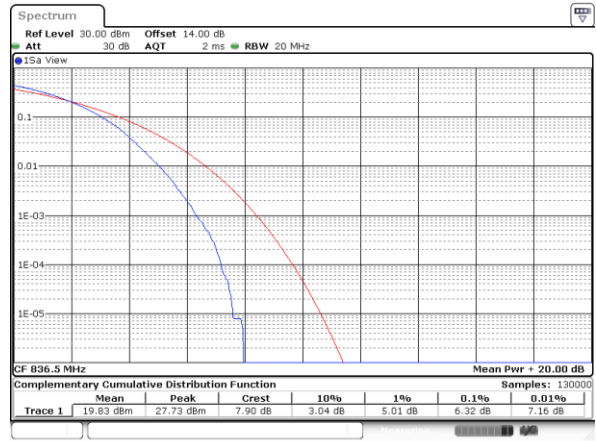
Date: 21.JUL.2022 16:21:43

Middle Channel / 1RB



Date: 21.JUL.2022 16:22:03

Middle Channel / Full RB



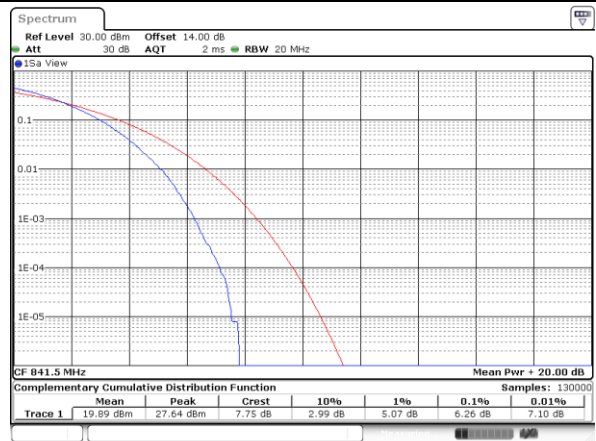
Date: 21.JUL.2022 16:22:59

Highest Channel / 1RB



Date: 21.JUL.2022 16:23:50

Highest Channel / Full RB



Date: 21.JUL.2022 16:23:25



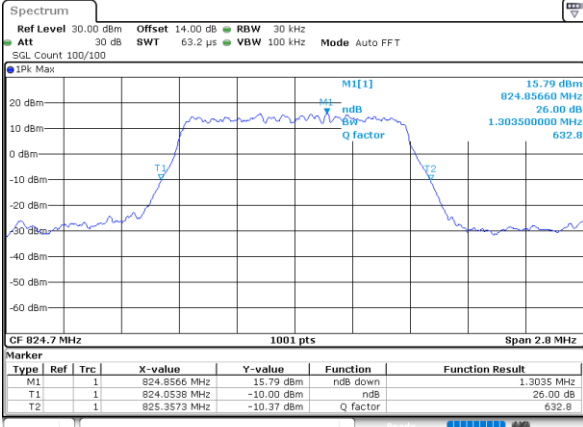
26dB Bandwidth

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.30	1.30	3.03	3.02	4.99	4.91	9.71	9.93	14.24	14.54	14.24	14.36
Middle CH	1.28	1.27	3.04	3.00	4.87	4.97	9.73	9.81	14.57	14.24	-	-
Highest CH	1.30	1.29	2.99	2.99	4.92	4.90	9.91	9.99	14.42	14.36	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.30	-	2.99	-	4.89	-	9.89	-	14.45	-	14.45	-
Middle CH	1.28	-	2.98	-	4.88	-	9.89	-	14.45	-	-	-
Highest CH	1.28	-	3.01	-	4.82	-	9.81	-	14.57	-	-	-



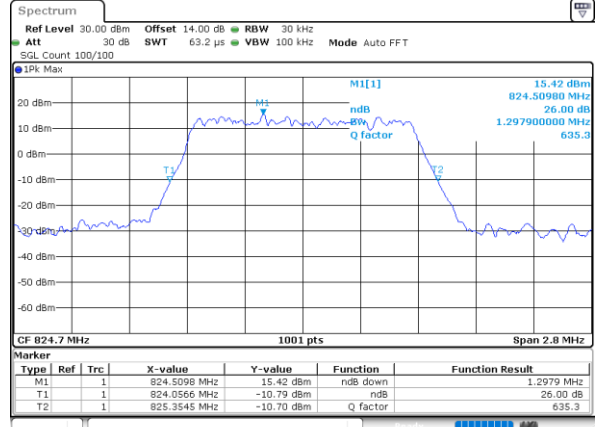
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



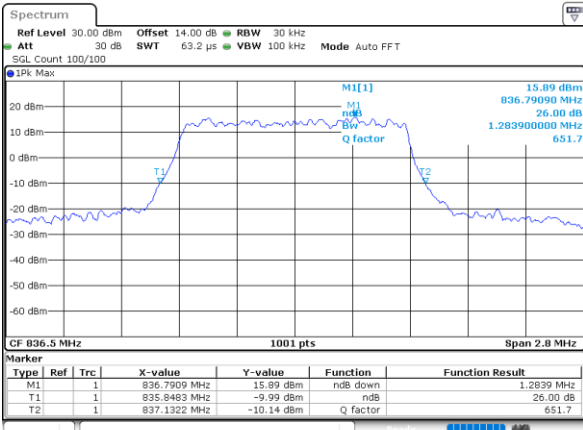
Date: 21.JUL.2022 13:33:06

Lowest Channel / 1.4MHz / 16QAM



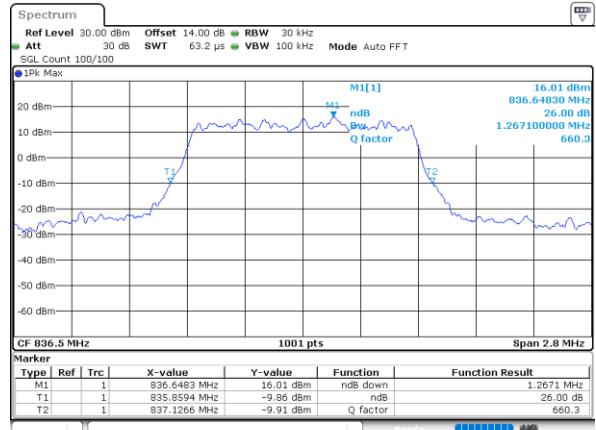
Date: 21.JUL.2022 13:32:42

Middle Channel / 1.4MHz / QPSK



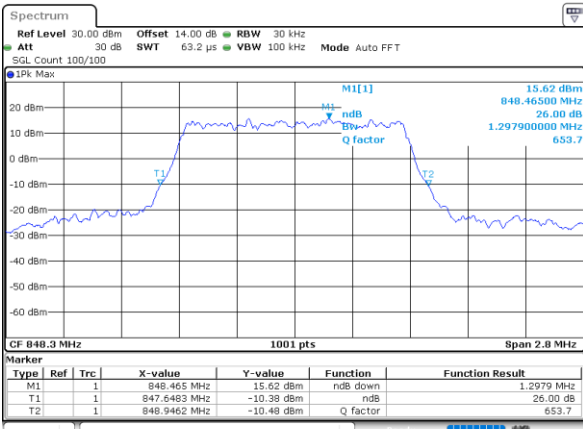
Date: 21.JUL.2022 13:49:14

Middle Channel / 1.4MHz / 16QAM



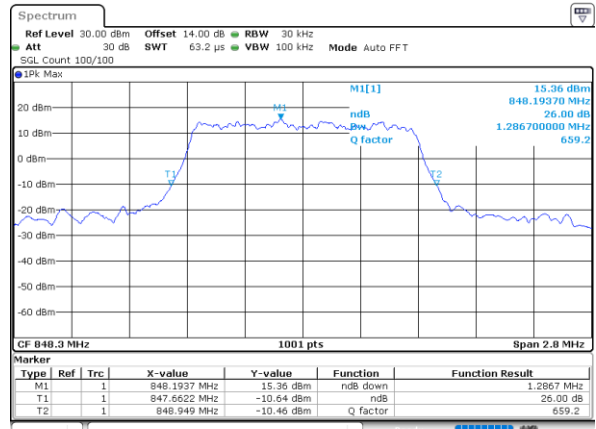
Date: 21.JUL.2022 13:48:50

Highest Channel / 1.4MHz / QPSK



Date: 21.JUL.2022 13:52:37

Highest Channel / 1.4MHz / 16QAM

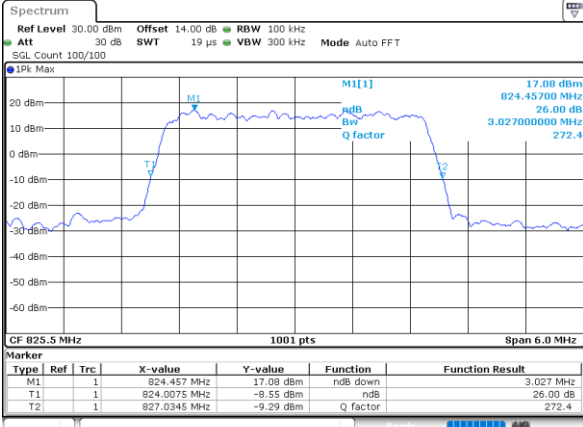


Date: 21.JUL.2022 13:52:13



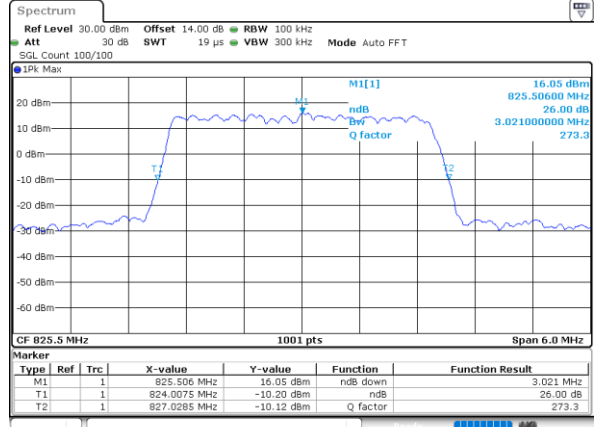
LTE Band 26

Lowest Channel / 3MHz / QPSK



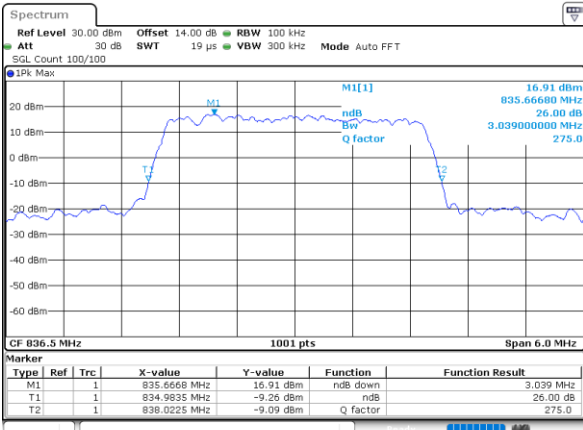
Date: 21.JUL.2022 14:56:50

Lowest Channel / 3MHz / 16QAM



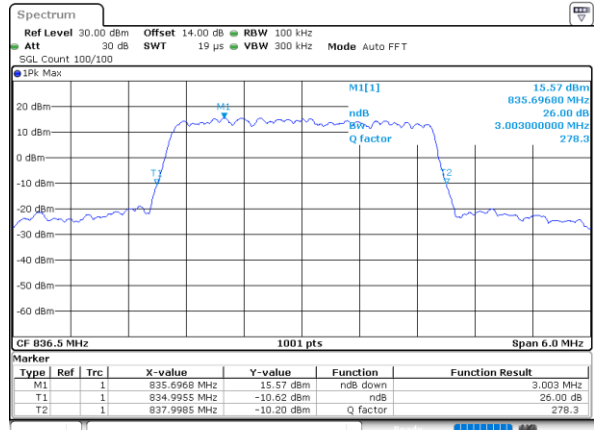
Date: 21.JUL.2022 14:56:26

Middle Channel / 3MHz / QPSK



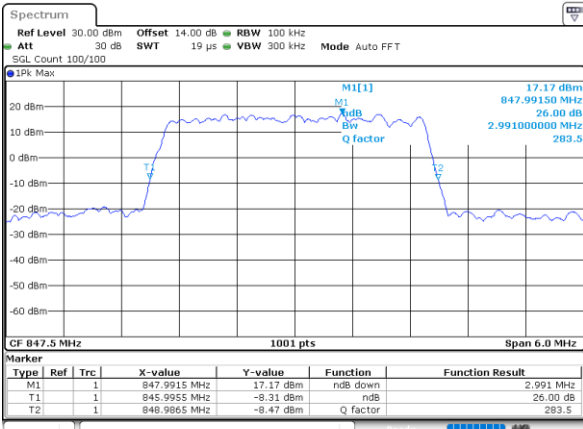
Date: 21.JUL.2022 15:04:04

Middle Channel / 3MHz / 16QAM



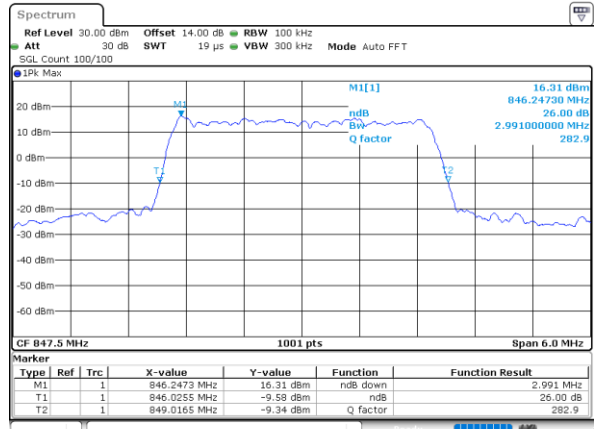
Date: 21.JUL.2022 15:04:09

Highest Channel / 3MHz / QPSK



Date: 21.JUL.2022 15:07:46

Highest Channel / 3MHz / 16QAM



Date: 21.JUL.2022 15:07:22