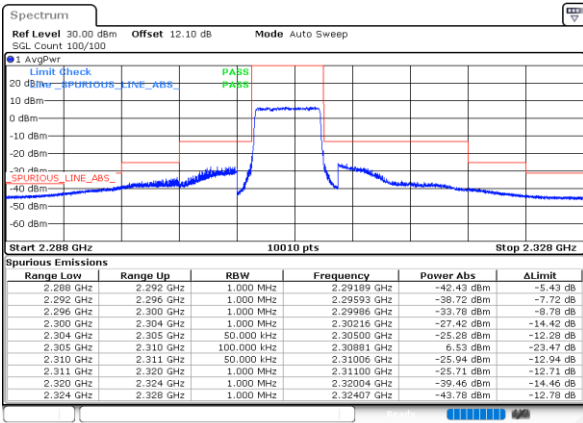


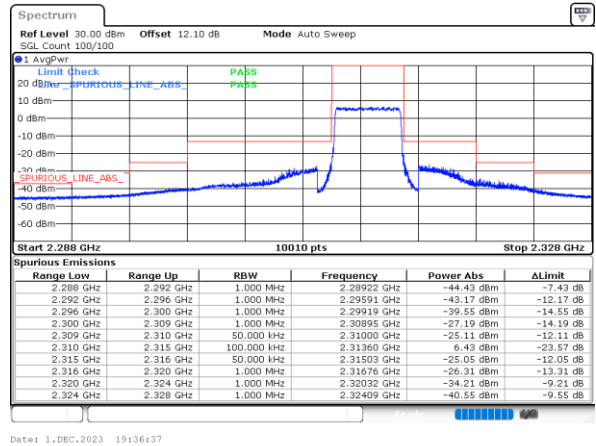


LTE Band 30 / 5MHz / QPSK

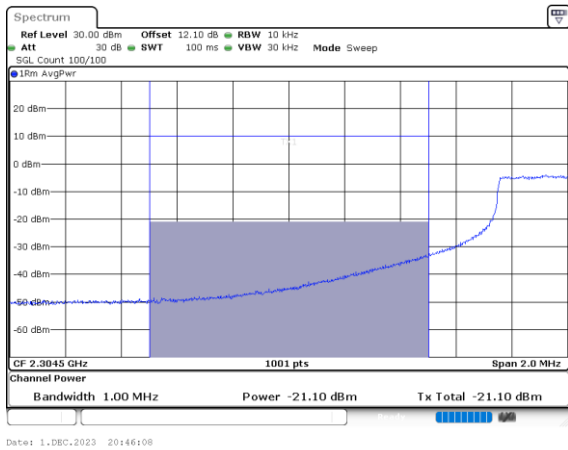
Lowest Band Edge / Full RB



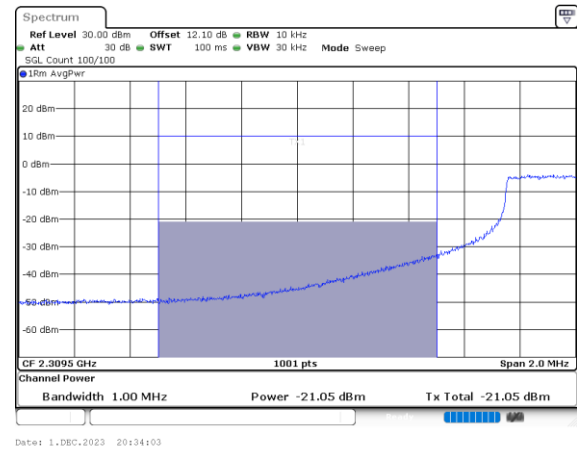
Highest Band Edge / Full RB



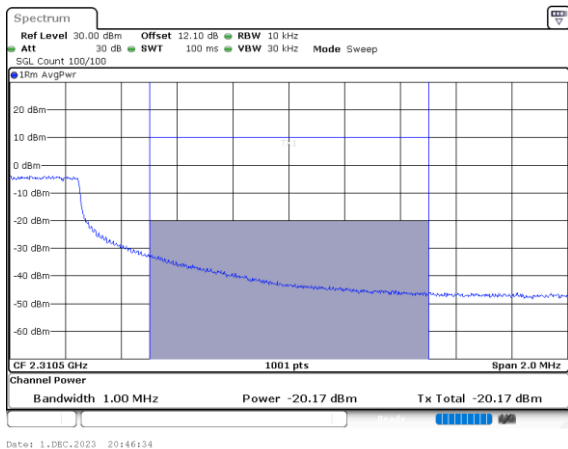
Lowest Band Edge / Full RB / Lower zoom in



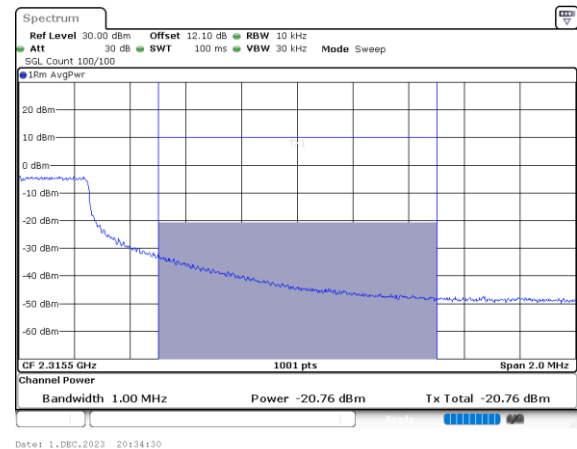
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



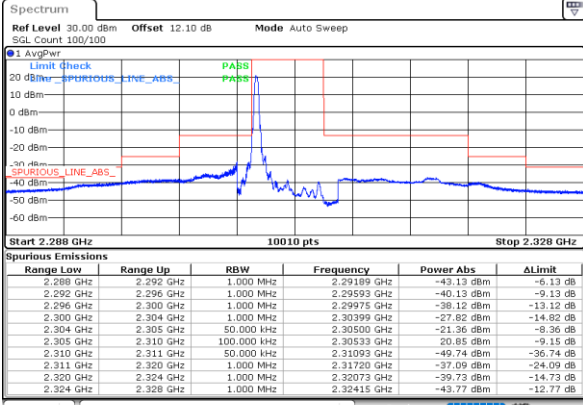
Highest Band Edge / Full RB / Upper zoom in



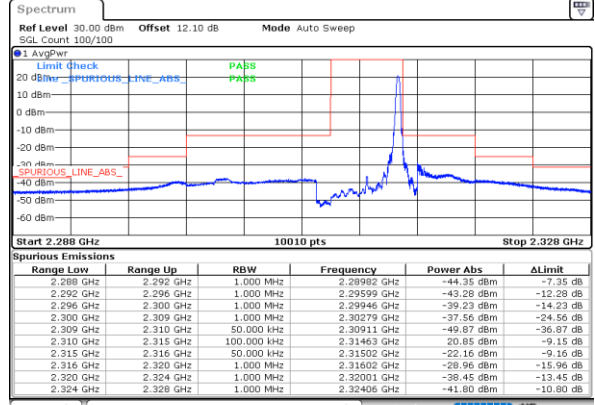


LTE Band 30 / 5MHz / 16QAM

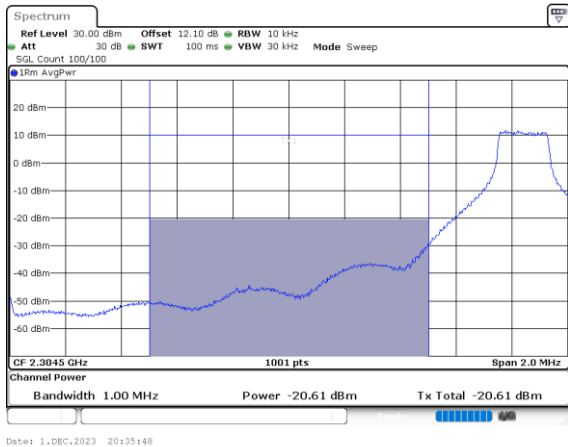
Lowest Band Edge / 1 RB



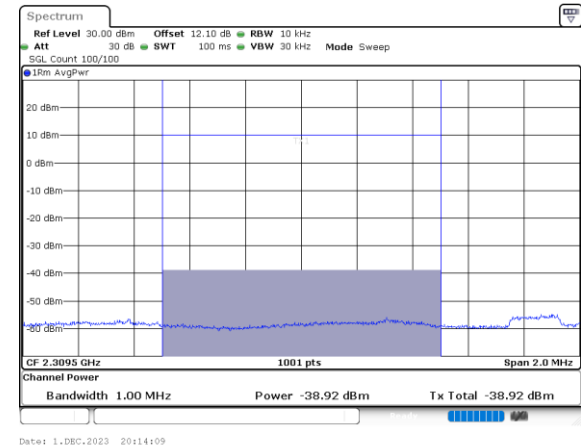
Highest Band Edge / 1 RB



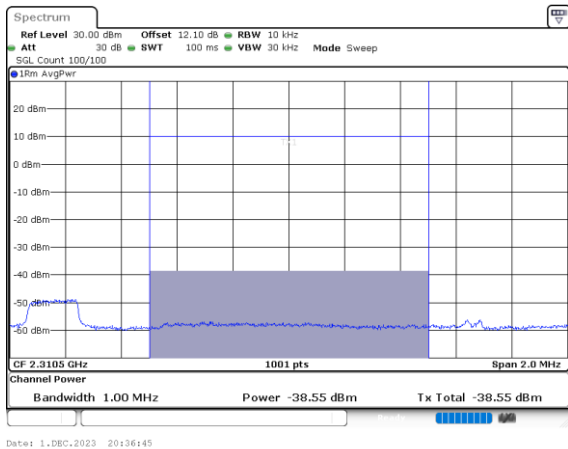
Lowest Band Edge / 1 RB / Lower zoom in



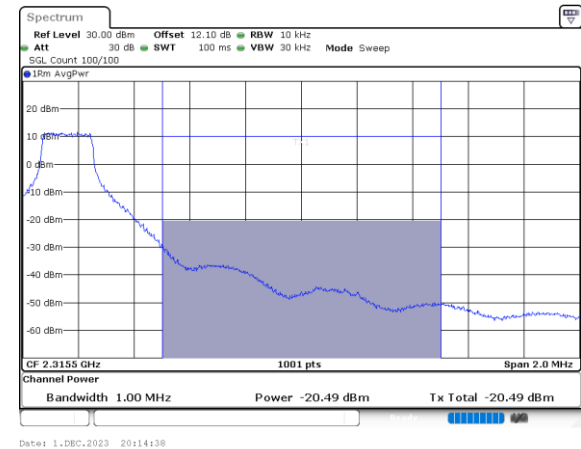
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



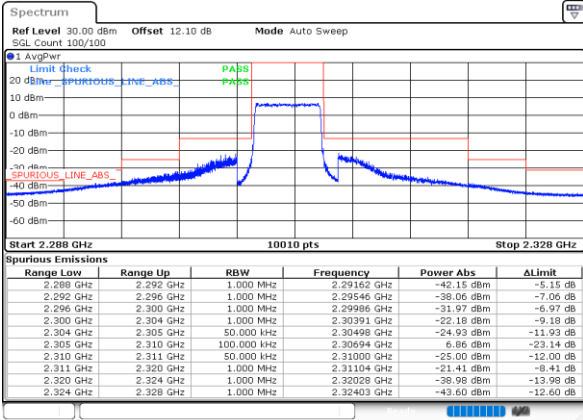
Highest Band Edge / 1 RB / Upper zoom in



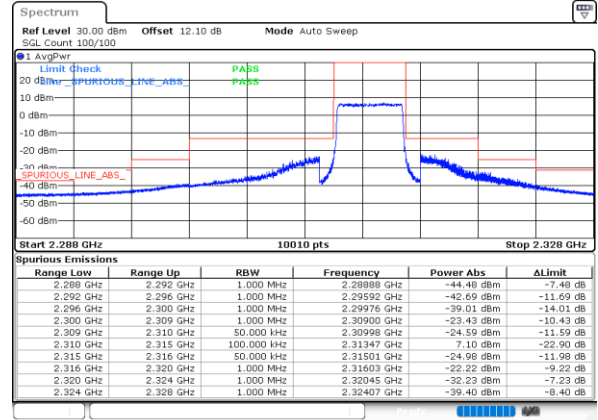


LTE Band 30 / 5MHz / 16QAM

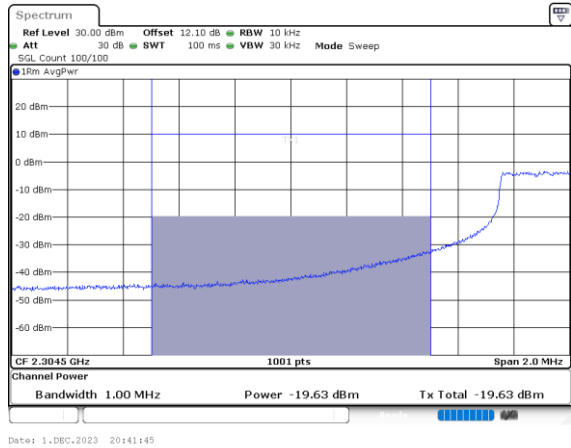
Lowest Band Edge / Full RB



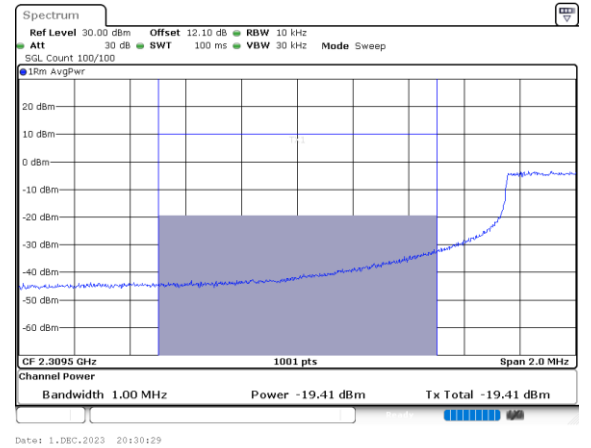
Highest Band Edge / Full RB



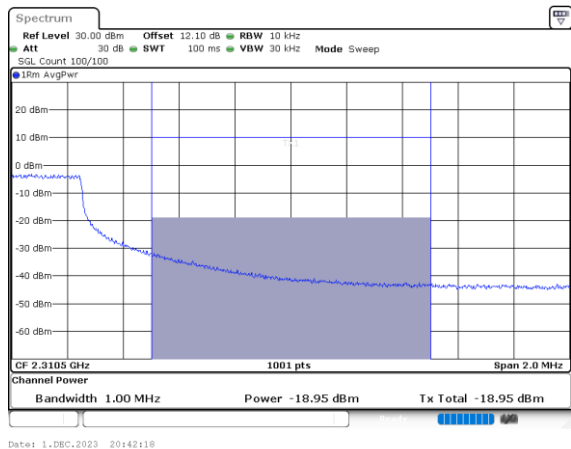
Lowest Band Edge / Full RB / Lower zoom in



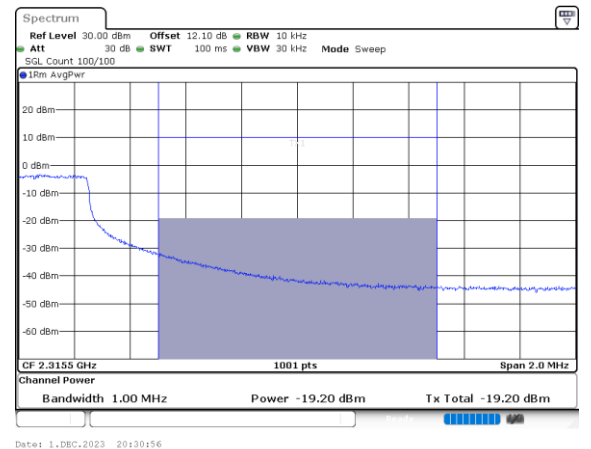
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



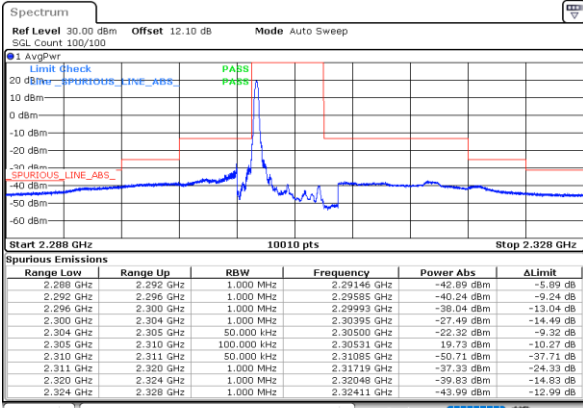
Highest Band Edge / Full RB / Upper zoom in



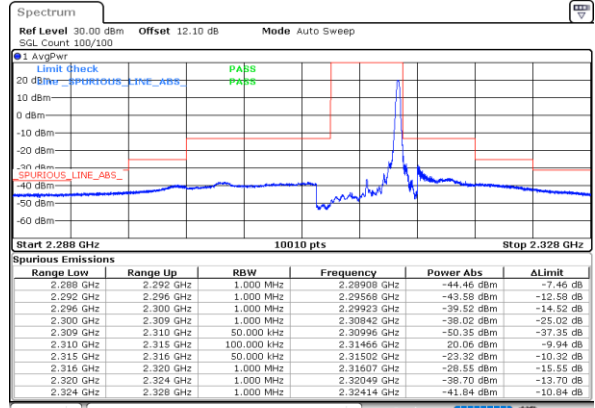


LTE Band 30 / 5MHz / 64QAM

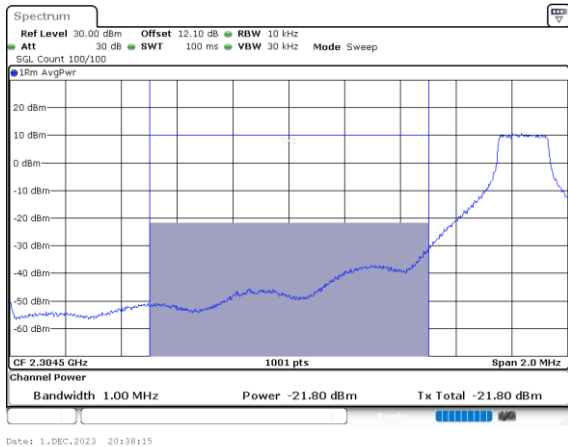
Lowest Band Edge / 1 RB



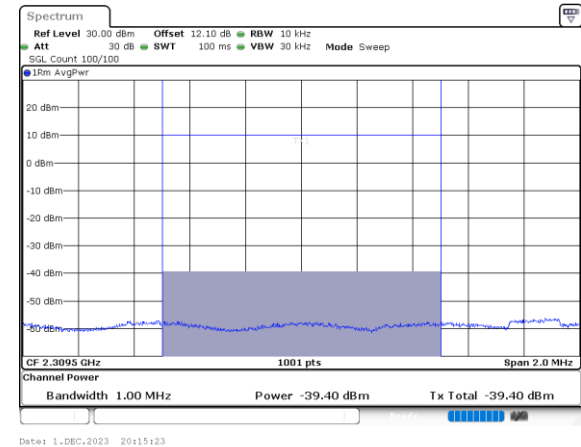
Highest Band Edge / 1 RB



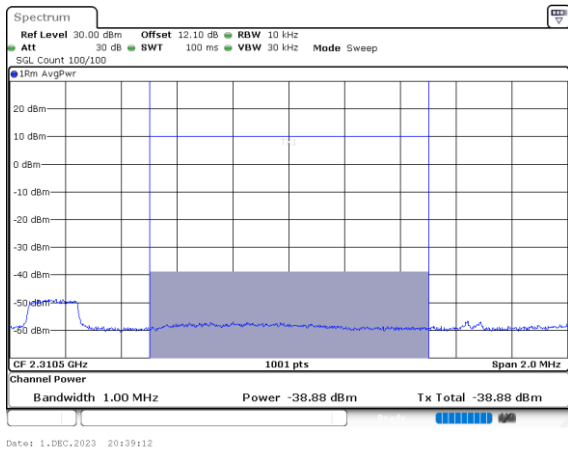
Lowest Band Edge / 1 RB / Lower zoom in



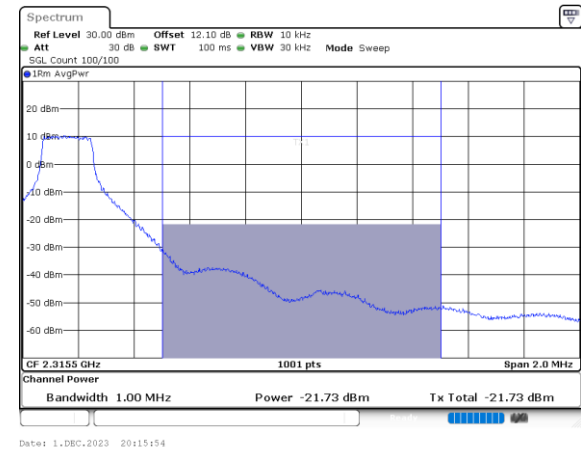
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



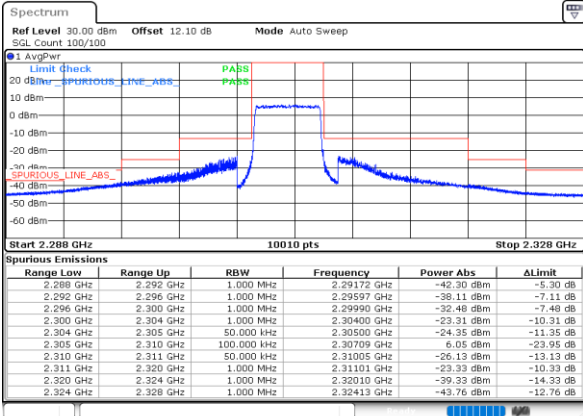
Highest Band Edge / 1 RB / Upper zoom in



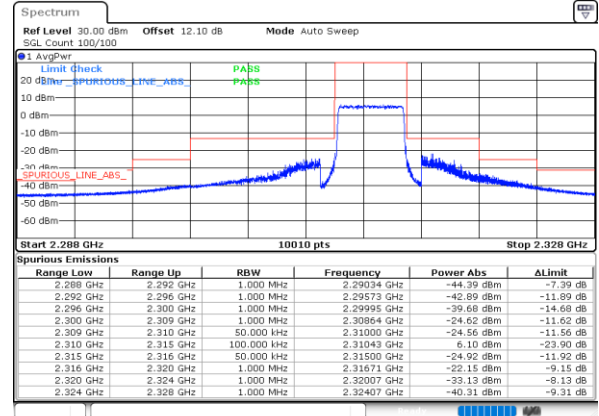


LTE Band 30 / 5MHz / 64QAM

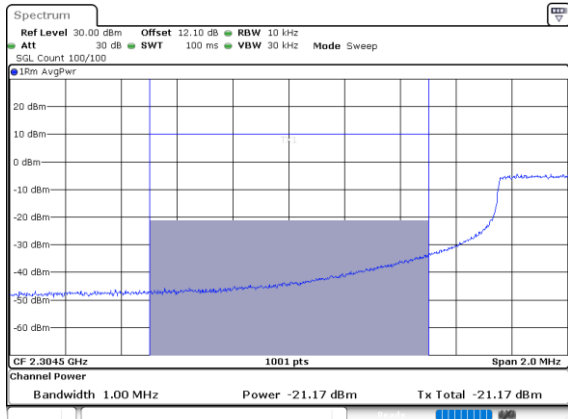
Lowest Band Edge / Full RB



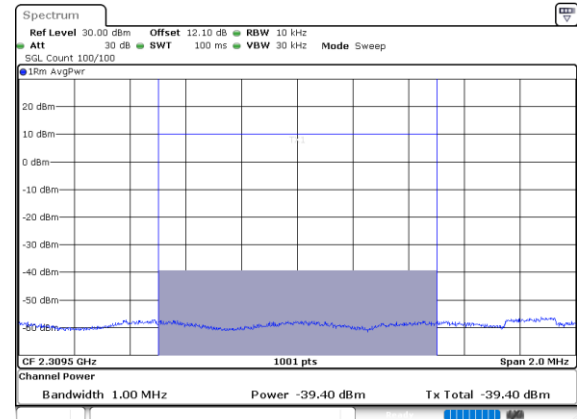
Highest Band Edge / Full RB



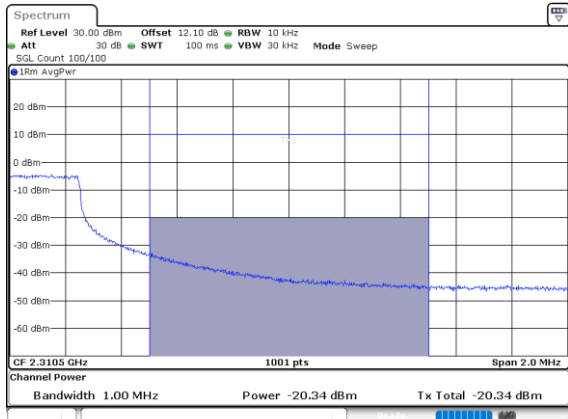
Lowest Band Edge / Full RB / Lower zoom in



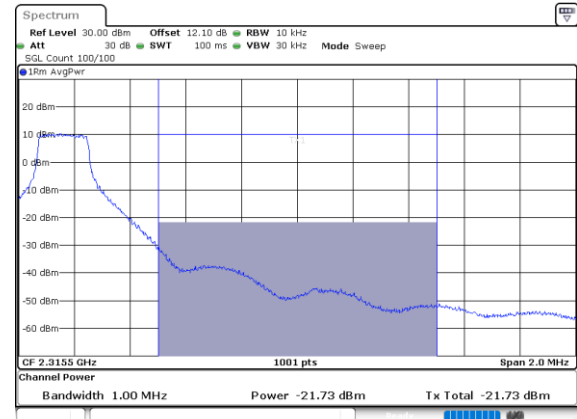
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



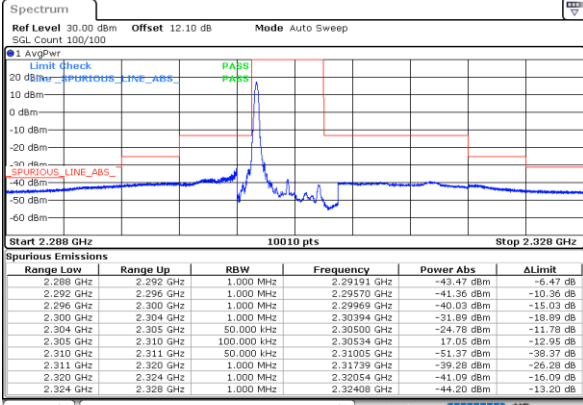
Highest Band Edge / Full RB / Upper zoom in



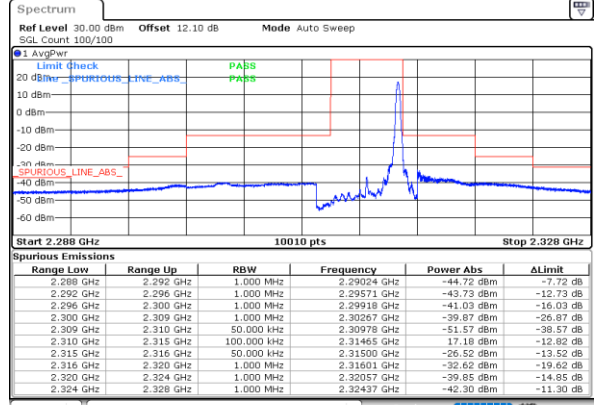


LTE Band 30 / 5MHz / 256QAM

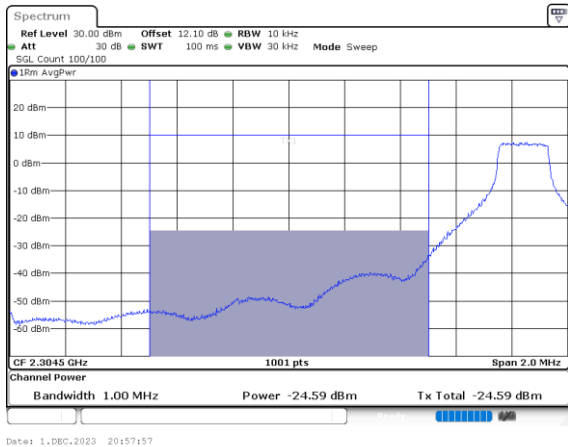
Lowest Band Edge / 1 RB



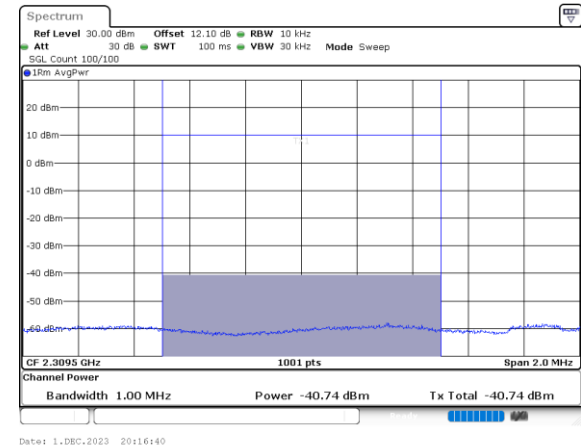
Highest Band Edge / 1 RB



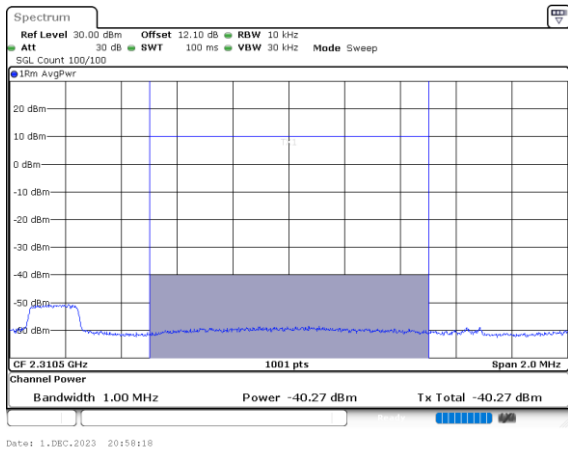
Lowest Band Edge / 1 RB / Lower zoom in



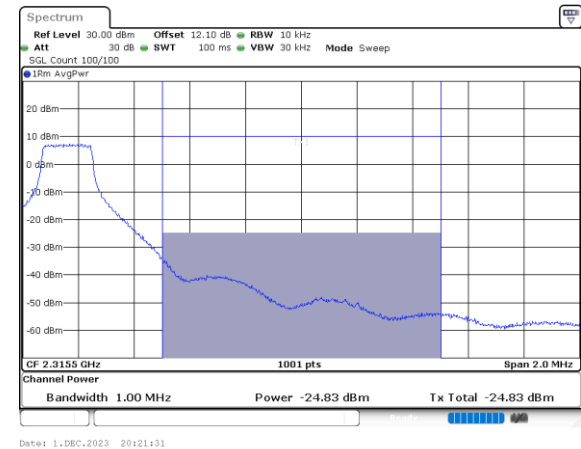
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



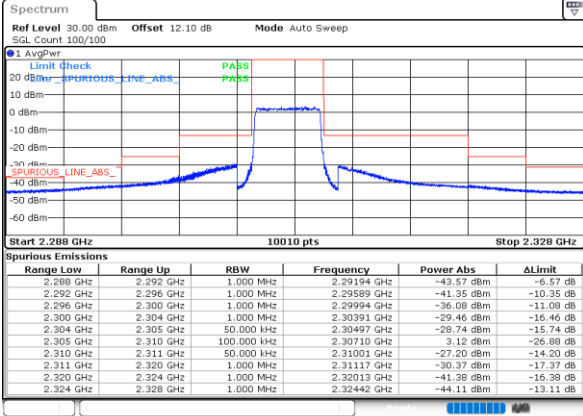
Highest Band Edge / 1 RB / Upper zoom in



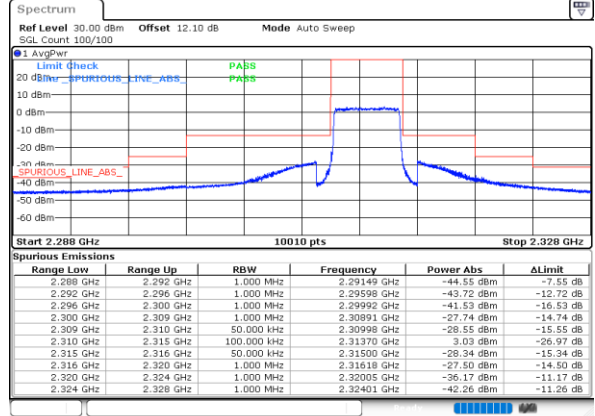


LTE Band 30 / 5MHz / 256QAM

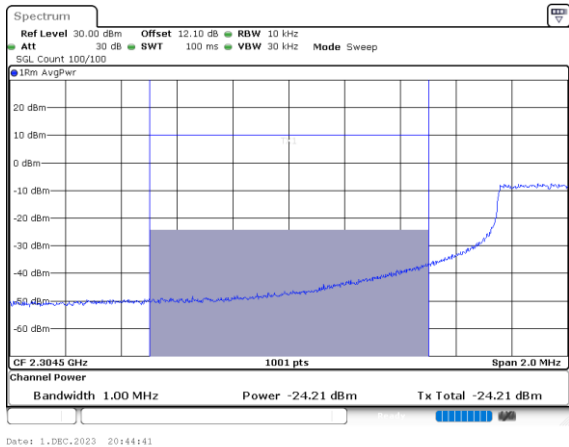
Lowest Band Edge / Full RB



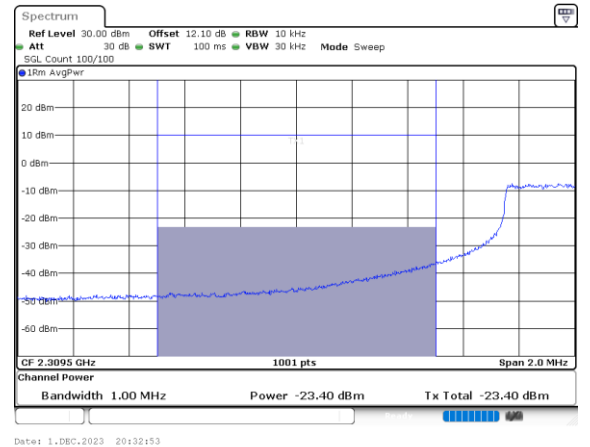
Highest Band Edge / Full RB



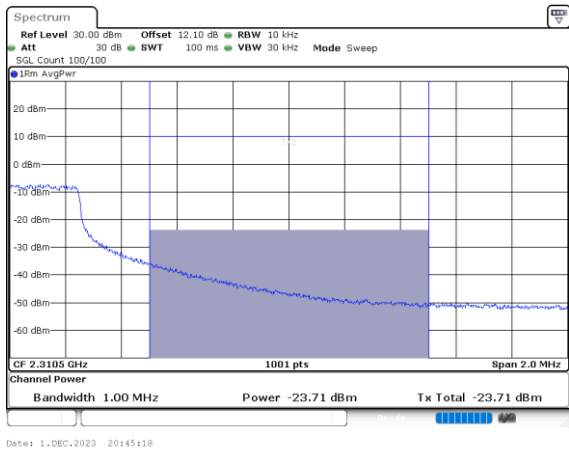
Lowest Band Edge / Full RB / Lower zoom in



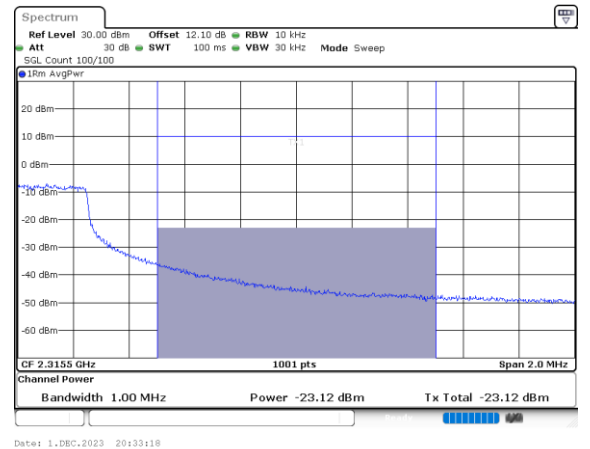
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



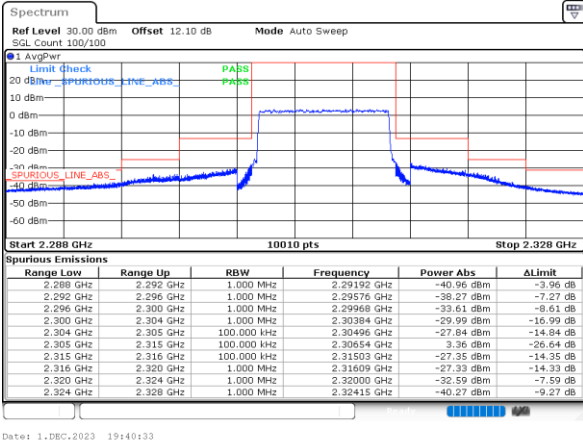
Highest Band Edge / Full RB / Upper zoom in





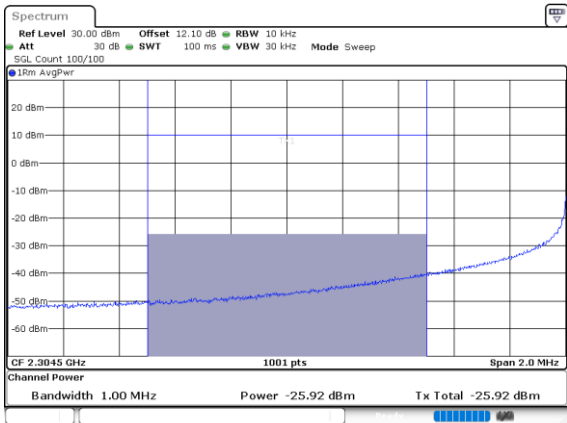
LTE Band 30 / 10MHz / QPSK

Middle Band Edge / Full RB



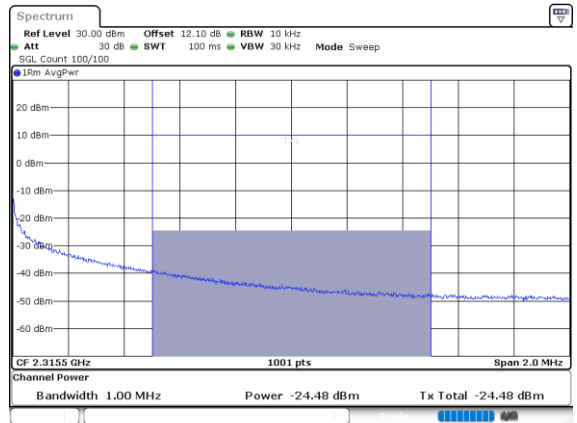
Date: 1.DEC.2023 19:40:33

Middle Band Edge / Full RB / Lower zoom in



Date: 1.DEC.2023 20:52:46

Middle Band Edge / Full RB / Upper zoom in

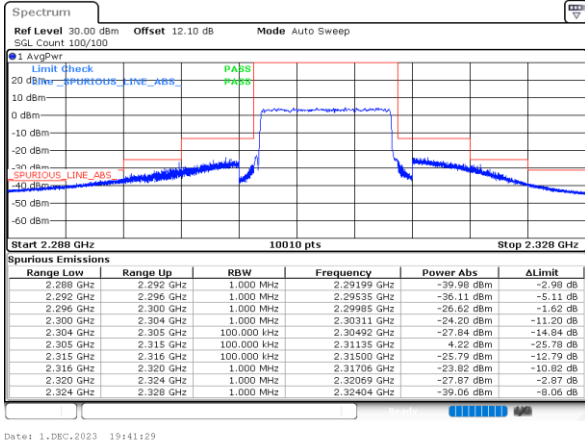


Date: 1.DEC.2023 20:53:21



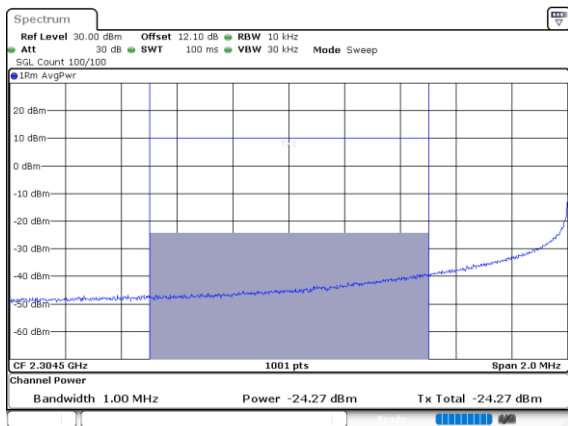
LTE Band 30 / 10MHz / 16QAM

Middle Band Edge / Full RB



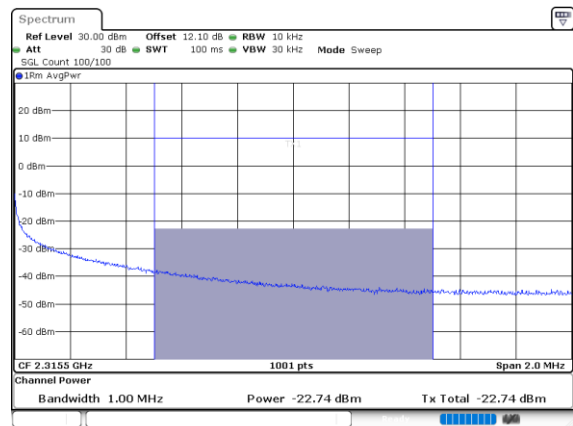
Date: 1.DEC.2023 19:41:29

Middle Band Edge / Full RB / Lower zoom in



Date: 1.DEC.2023 20:49:22

Middle Band Edge / Full RB / Upper zoom in

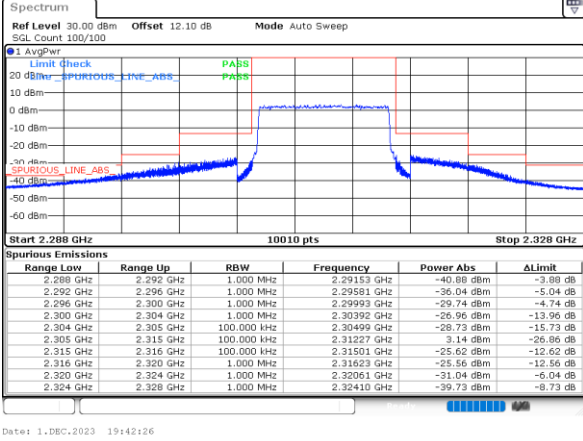


Date: 1.DEC.2023 20:49:47

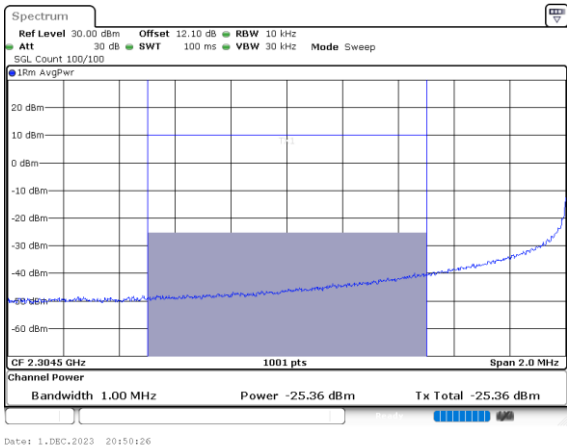


LTE Band 30 / 10MHz / 64QAM

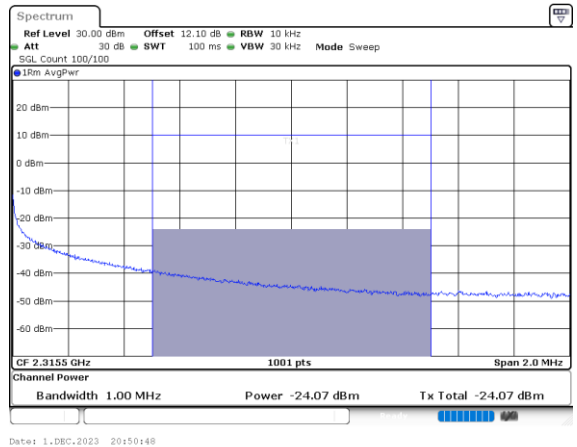
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



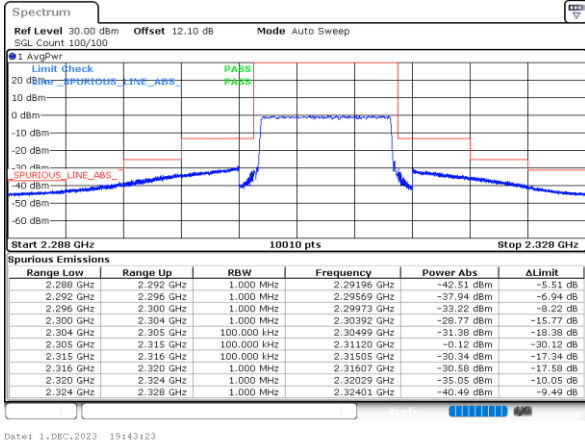
Middle Band Edge / Full RB / Upper zoom in





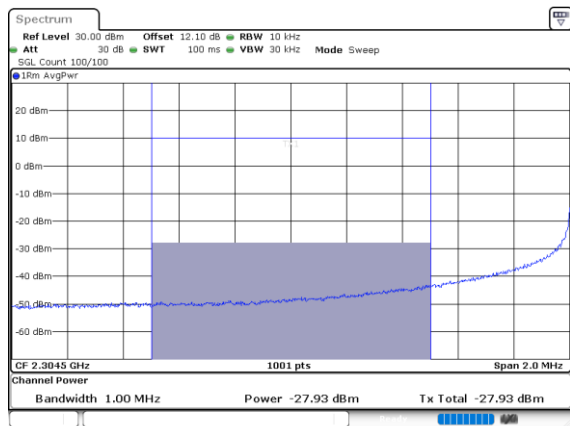
LTE Band 30 / 10MHz / 256QAM

Middle Band Edge / Full RB



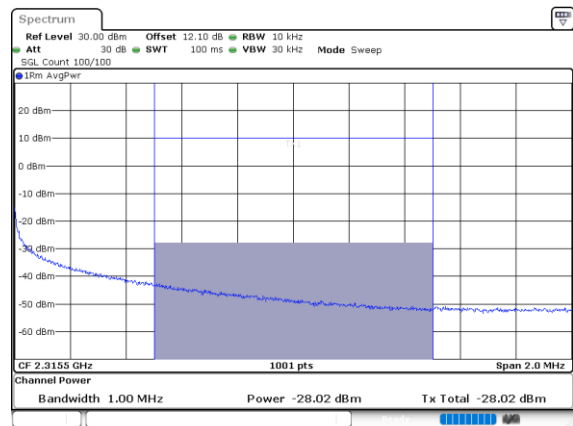
Date: 1.DEC.2023 19:43:23

Middle Band Edge / Full RB / Lower zoom in



Date: 1.DEC.2023 20:51:33

Middle Band Edge / Full RB / Upper zoom in



Date: 1.DEC.2023 20:51:55

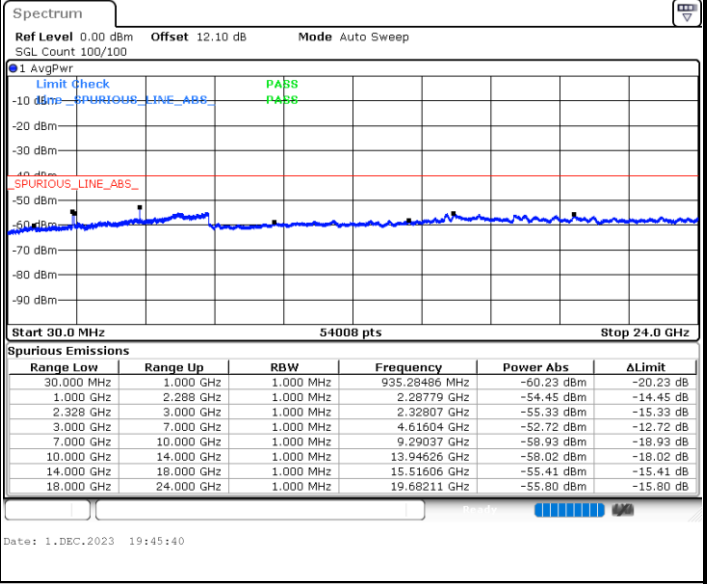
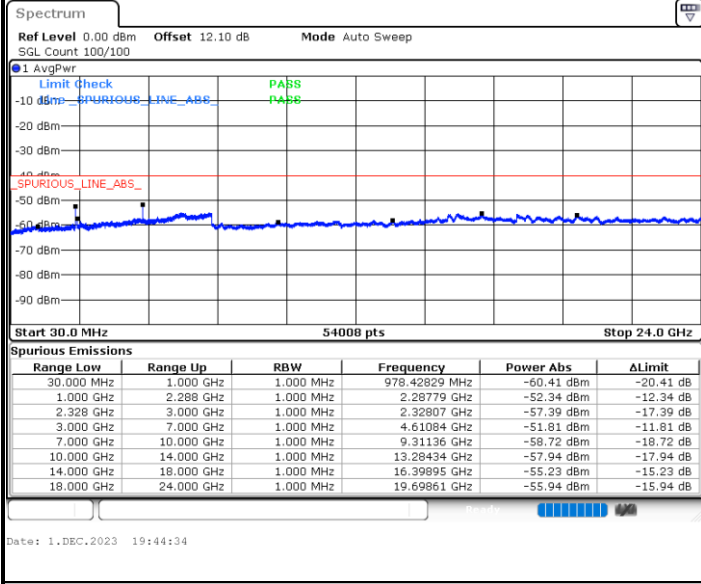


Conducted Spurious Emission

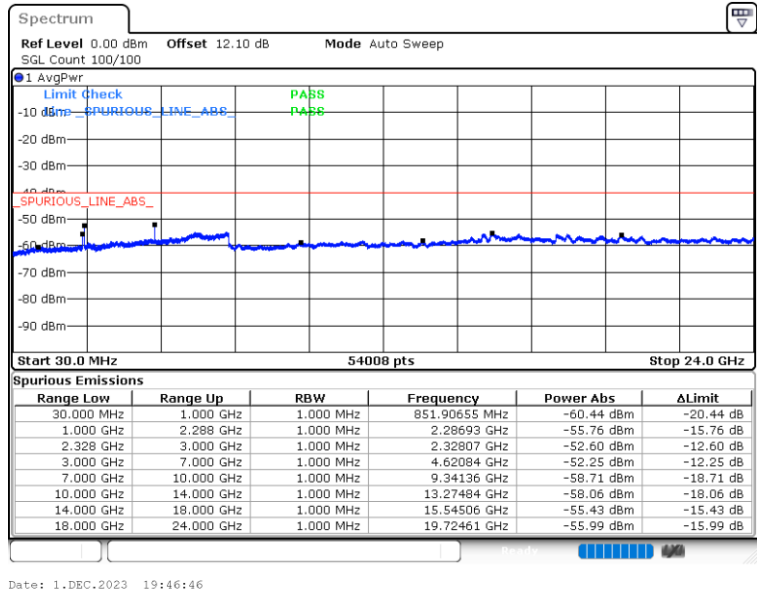
LTE Band 30 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



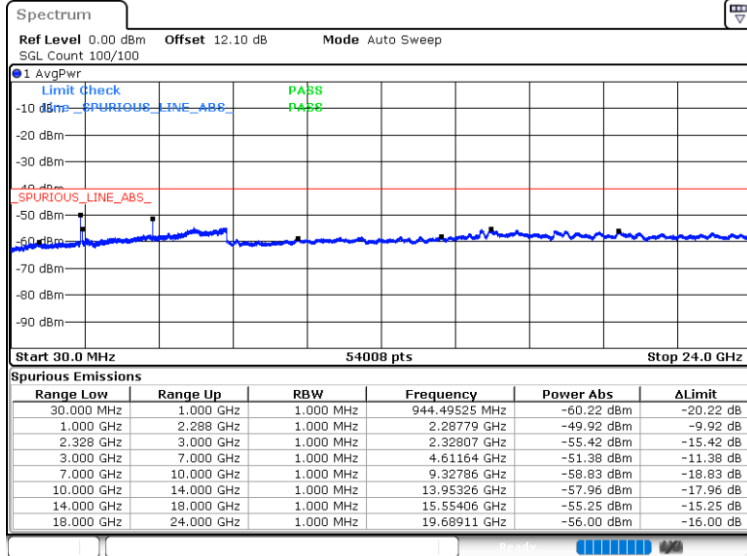
Highest Channel / QPSK





LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 1.DEC.2023 19:57:17



Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0057	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

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.



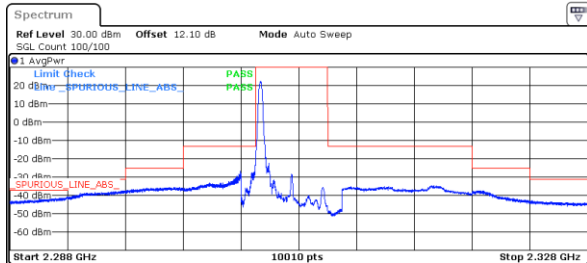
LTE Band 30 TX1 Ant 0 spot check

Conducted Band Edge



LTE Band 30 TX1 Ant0 / 5MHz / QPSK

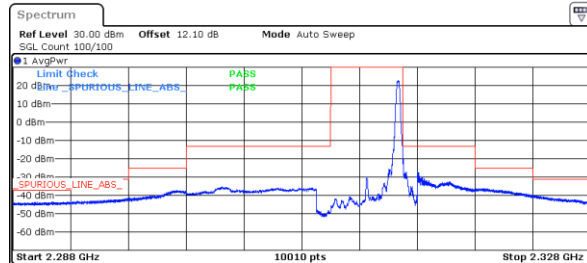
Lowest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29197 GHz	-40.91 dBm	-3.91 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29583 GHz	-37.46 dBm	-6.46 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29973 GHz	-35.64 dBm	-10.64 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30397 GHz	-26.98 dBm	-13.98 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-19.77 dBm	-6.77 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30536 GHz	22.31 dBm	-7.69 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31095 GHz	-47.65 dBm	-34.65 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31731 GHz	-34.80 dBm	-21.80 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32028 GHz	-37.43 dBm	-12.43 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32413 GHz	-42.97 dBm	-11.97 dB

Date: 18_JUL_2023 19:12:40

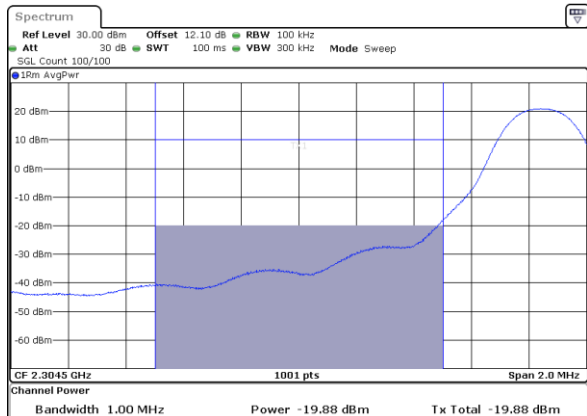
Highest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29199 GHz	-43.55 dBm	-6.55 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-41.53 dBm	-10.53 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29933 GHz	-37.33 dBm	-12.33 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30249 GHz	-35.37 dBm	-22.37 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30906 GHz	-47.99 dBm	-34.99 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31469 GHz	22.66 dBm	-7.34 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-20.53 dBm	-7.53 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31601 GHz	-27.29 dBm	-14.29 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32079 GHz	-36.33 dBm	-11.33 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32425 GHz	-40.00 dBm	-9.00 dB

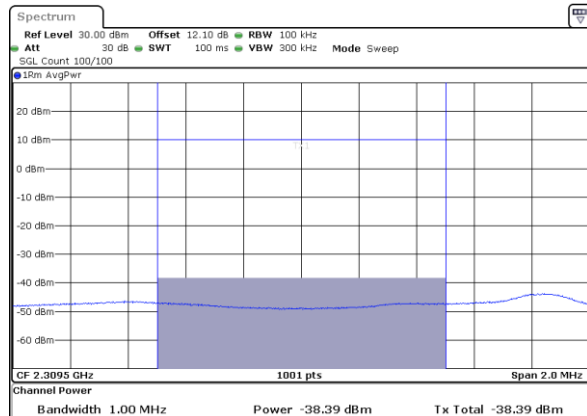
Date: 18_JUL_2023 19:20:54

Lowest Band Edge / 1 RB / Lower zoom in



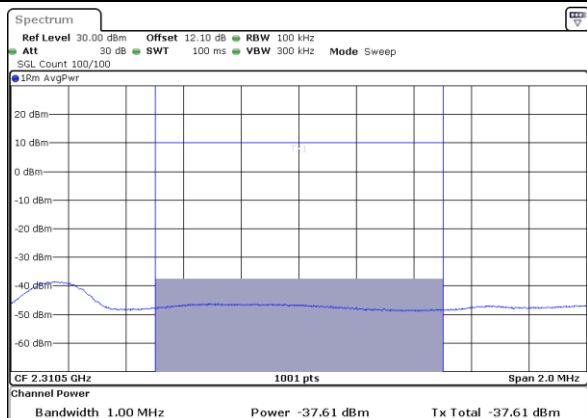
Date: 7_AUG_2023 22:27:10

Highest Band Edge / 1 RB / Lower zoom in



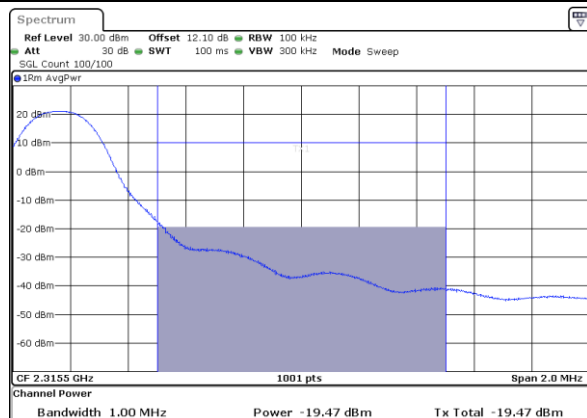
Date: 7_AUG_2023 20:53:59

Lowest Band Edge / 1 RB / Upper zoom in



Date: 7_AUG_2023 22:41:39

Highest Band Edge / 1 RB / Upper zoom in

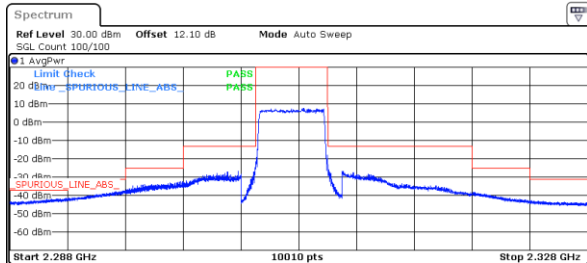


Date: 7_AUG_2023 20:53:46



LTE Band 30 TX1 Ant0 / 5MHz / QPSK

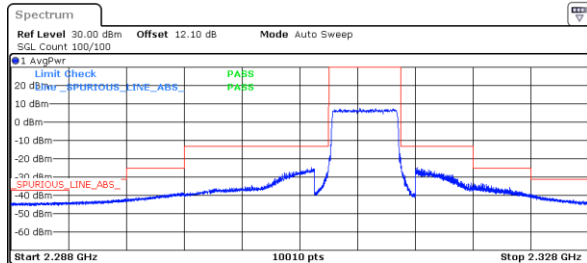
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29190 GHz	-41.70 dBm	-4.70 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29587 GHz	-37.56 dBm	-6.56 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29978 GHz	-32.30 dBm	-7.30 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30380 GHz	-26.63 dBm	-13.63 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-23.46 dBm	-10.46 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30833 GHz	7.43 dBm	-22.57 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-23.35 dBm	-10.35 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31108 GHz	-26.92 dBm	-13.92 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32016 GHz	-38.40 dBm	-13.40 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32411 GHz	-42.78 dBm	-11.78 dB

Date: 18_JUL_2023 19:16:43

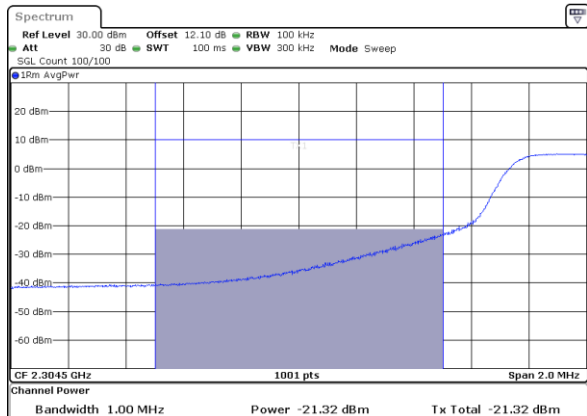
Highest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.288 GHz	2.292 GHz	1.000 MHz	2.29106 GHz	-43.73 dBm	-6.73 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.29584 GHz	-41.95 dBm	-10.95 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29984 GHz	-38.46 dBm	-13.46 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30883 GHz	-24.82 dBm	-11.82 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30996 GHz	-24.07 dBm	-11.07 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31217 GHz	7.47 dBm	-22.53 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31505 GHz	-23.80 dBm	-10.80 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31615 GHz	-24.91 dBm	-11.91 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-33.49 dBm	-8.49 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-39.59 dBm	-8.59 dB

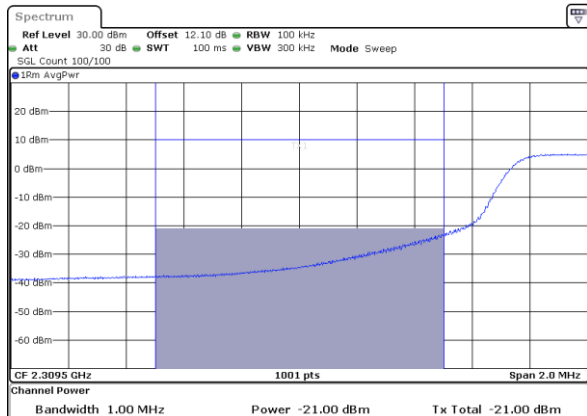
Date: 18_JUL_2023 19:25:02

Lowest Band Edge / Full RB / Lower zoom in



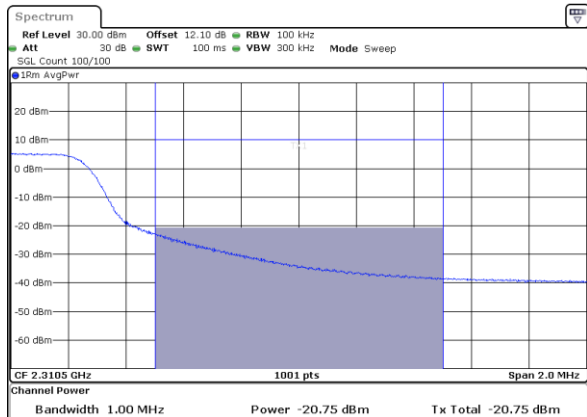
Date: 7_AUG_2023 22:54:47

Highest Band Edge / Full RB / Lower zoom in



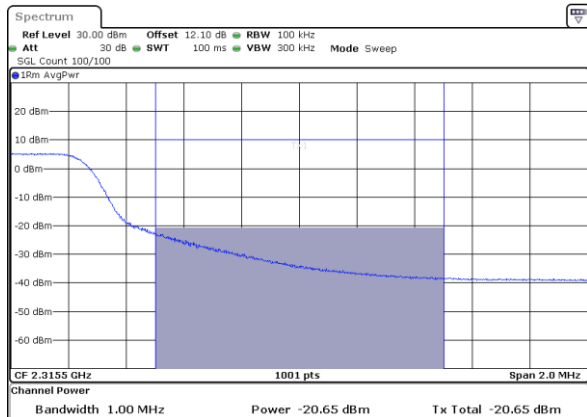
Date: 7_AUG_2023 22:09:53

Lowest Band Edge / Full RB / Upper zoom in



Date: 7_AUG_2023 22:55:12

Highest Band Edge / Full RB / Upper zoom in

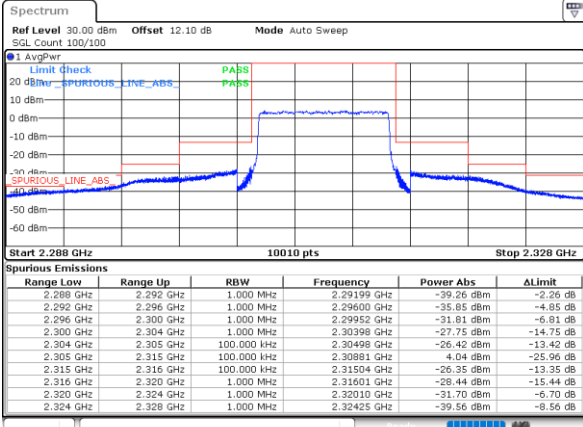


Date: 7_AUG_2023 22:10:25



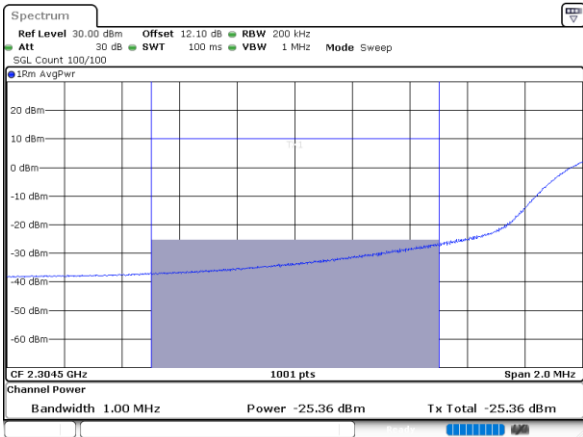
LTE Band 30 TX1 Ant0 / 10MHz / QPSK

Middle Band Edge / Full RB



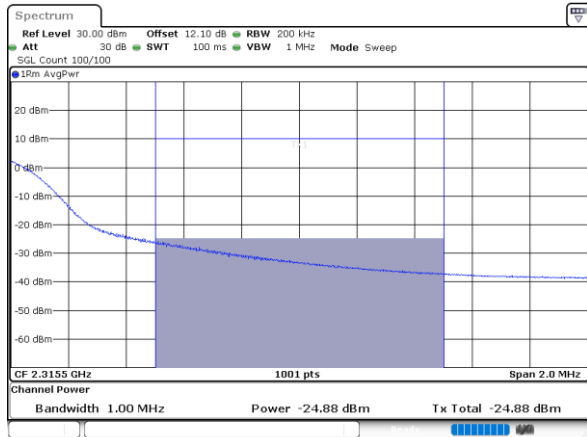
Date: 18_JUL_2023 19:29:17

Middle Band Edge / Full RB / Lower zoom in



Date: 7_AUG_2023 23:58:28

Middle Band Edge / Full RB / Upper zoom in



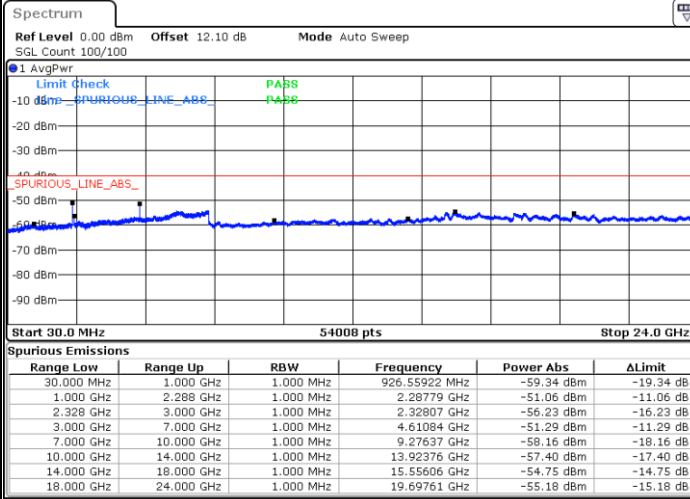
Date: 7_AUG_2023 23:59:12



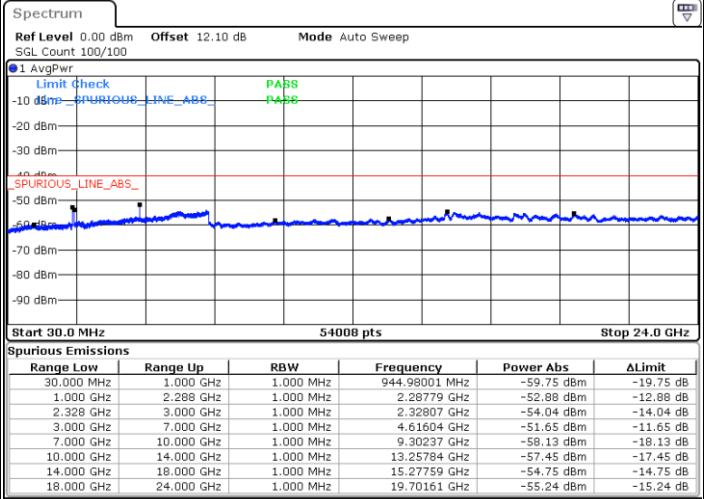
Conducted Spurious Emission

LTE Band 30 TX1 Ant0 / 5MHz

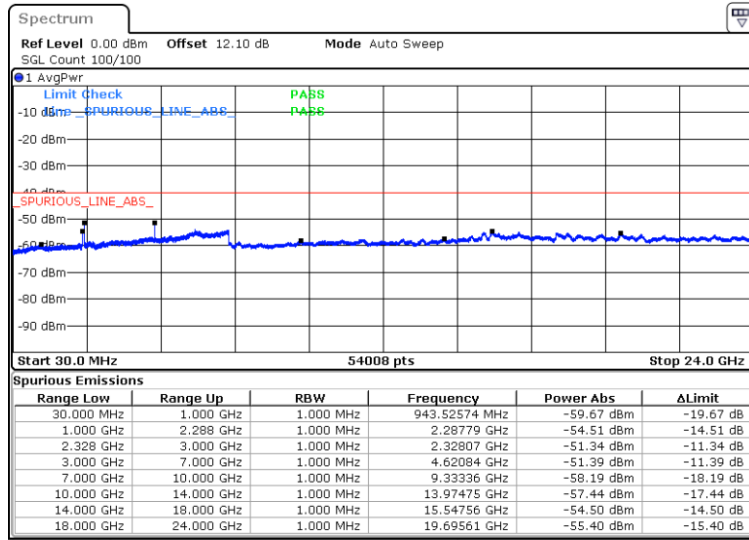
Lowest Channel / QPSK



Middle Channel / QPSK



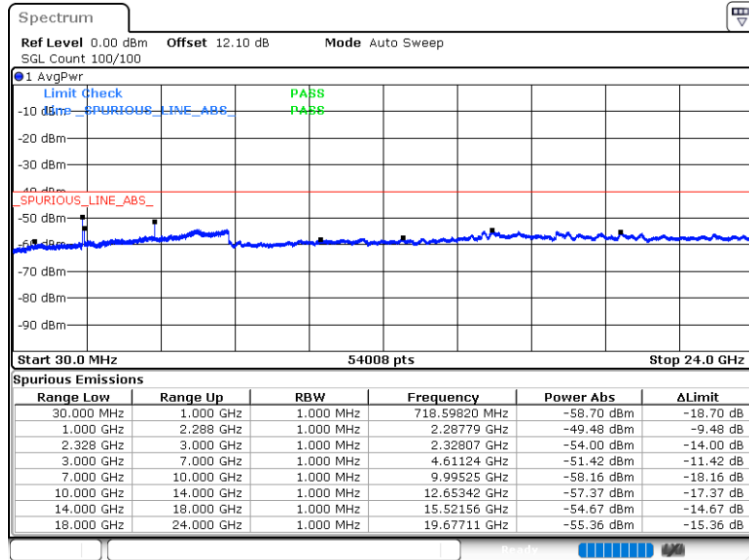
Highest Channel / QPSK





LTE Band 30 TX1 Ant0 / 10MHz

Middle Channel / QPSK



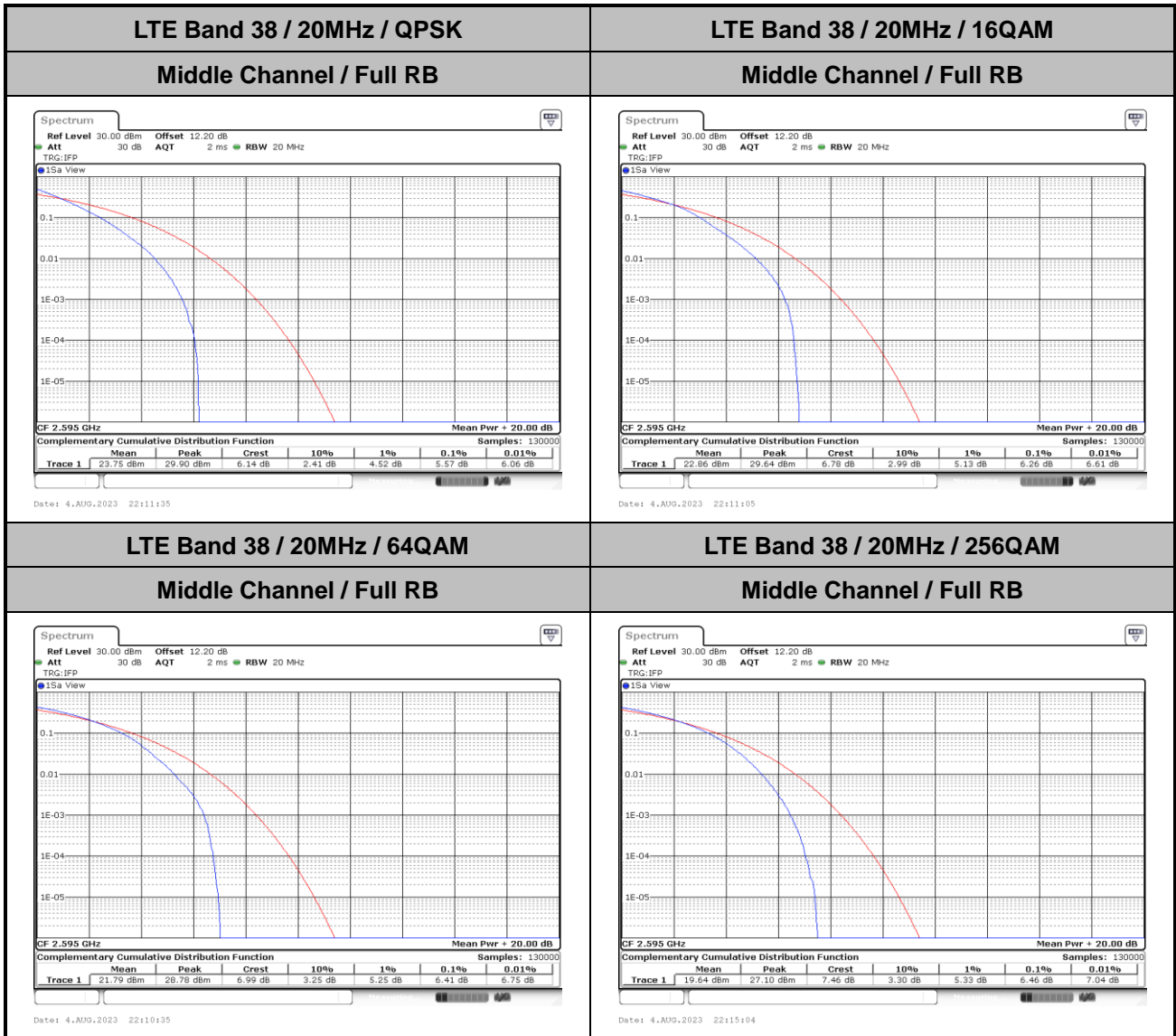
Date: 18.JUL.2023 19:47:07



LTE Band 38

Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.57	6.26	6.41	6.46	PASS





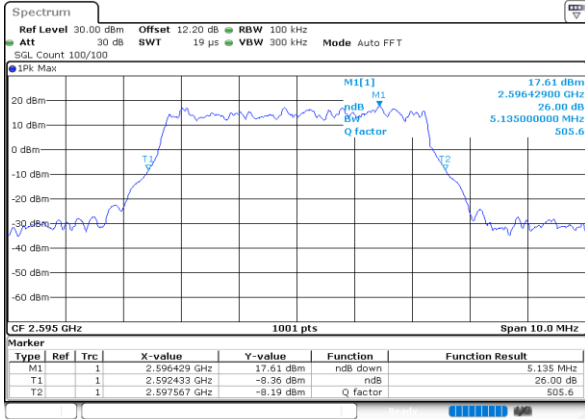
26dB Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	5.14	5.12	10.15	9.93	14.48	14.45	19.42	18.90
Mode	LTE Band 38 : 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	-	-	-	-	4.91	5.07	10.13	9.69	14.24	14.45	18.94	19.58



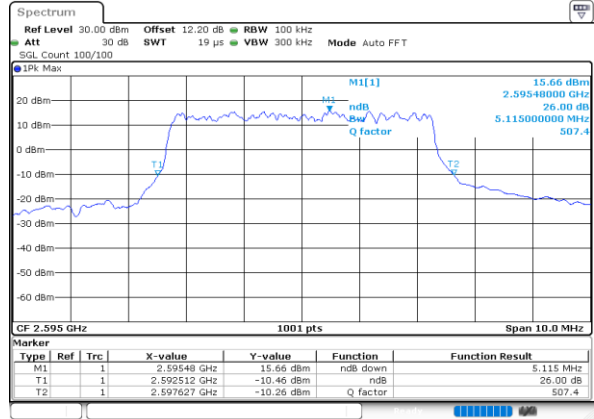
LTE Band 38

Middle Channel / 5MHz / QPSK



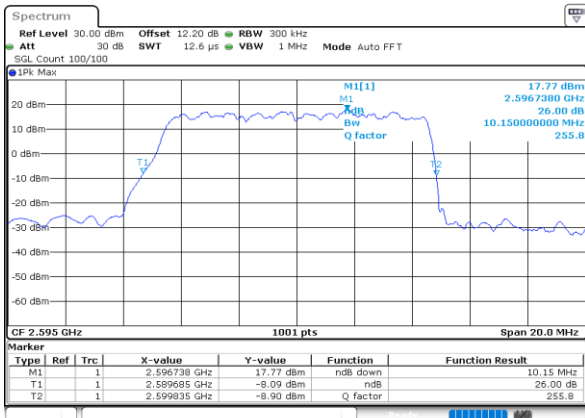
Date: 4.AUG.2023 22:00:35

Middle Channel / 5MHz / 16QAM



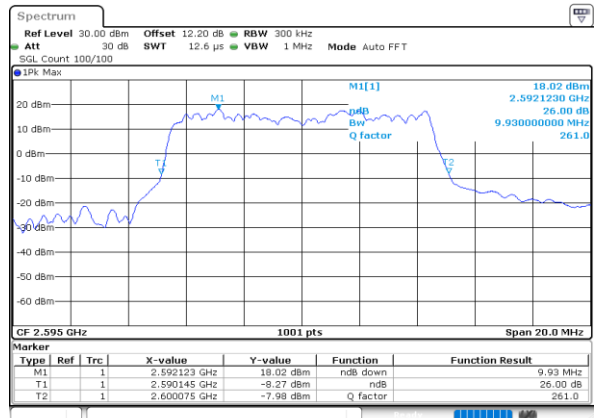
Date: 4.AUG.2023 22:01:04

Middle Channel / 10MHz / QPSK



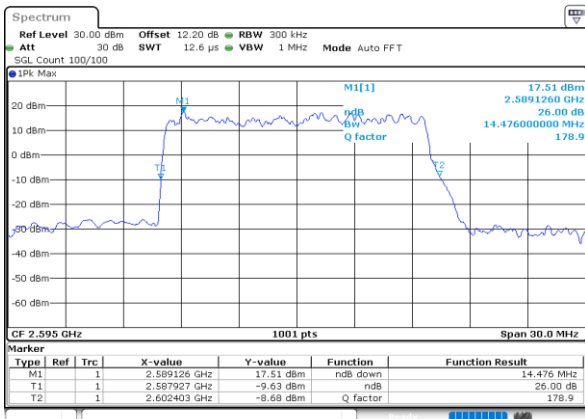
Date: 4.AUG.2023 22:02:36

Middle Channel / 10MHz / 16QAM



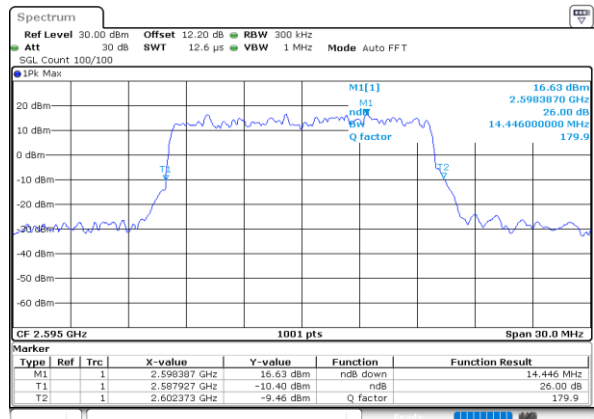
Date: 4.AUG.2023 22:03:05

Middle Channel / 15MHz / QPSK



Date: 4.AUG.2023 22:04:37

Middle Channel / 15MHz / 16QAM

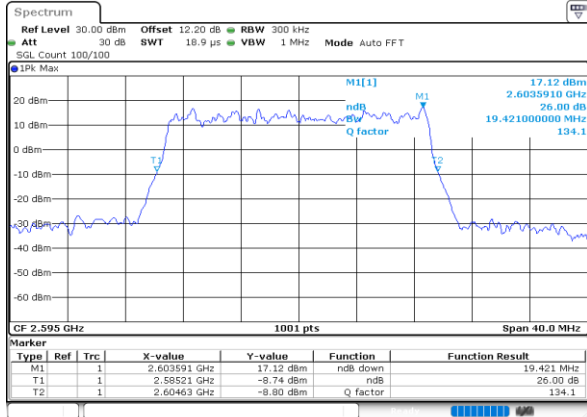


Date: 4.AUG.2023 22:05:05



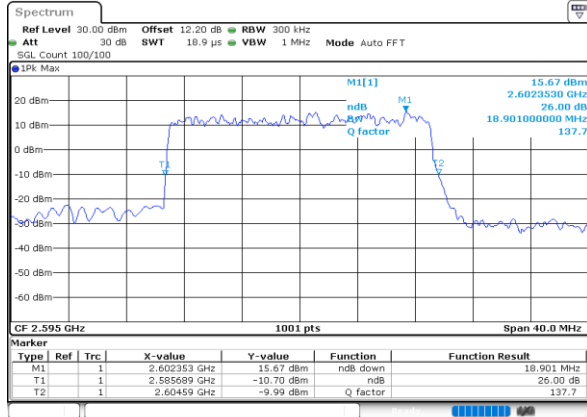
LTE Band 38

Middle Channel / 20MHz / QPSK



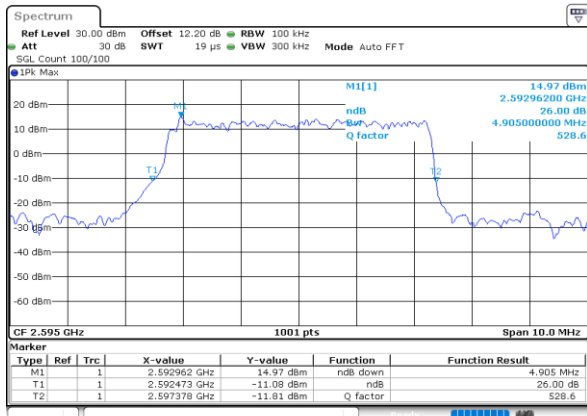
Date: 4.AUG.2023 22:06:37

Middle Channel / 20MHz / 16QAM



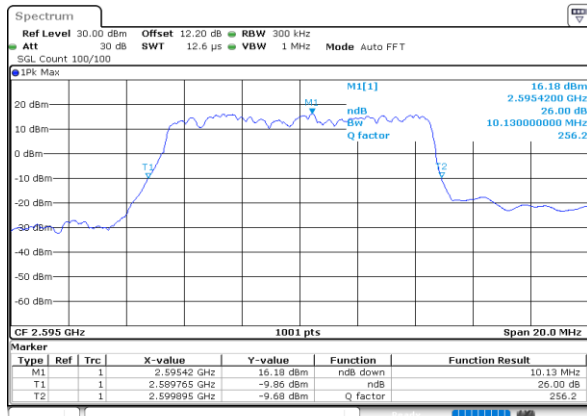
Date: 4.AUG.2023 22:07:06

Middle Channel / 5MHz / 64QAM



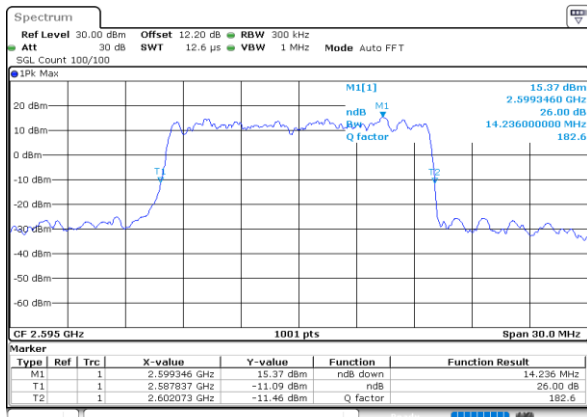
Date: 4.AUG.2023 22:07:55

Middle Channel / 10MHz / 64QAM



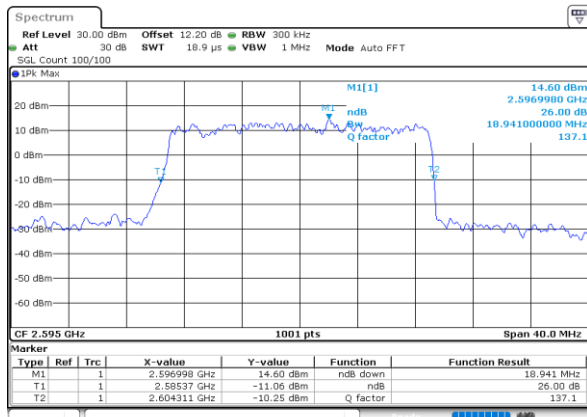
Date: 4.AUG.2023 22:08:43

Middle Channel / 15MHz / 64QAM



Date: 4.AUG.2023 22:09:31

Middle Channel / 20MHz / 64QAM

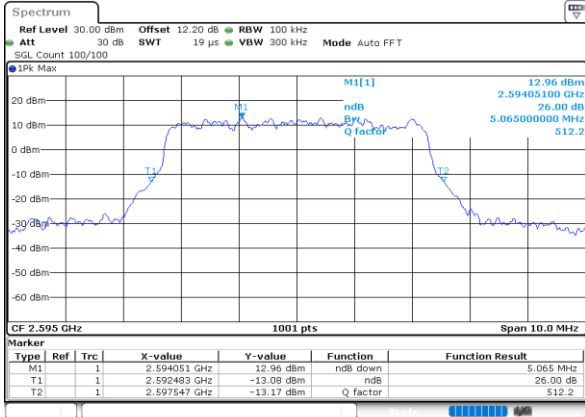


Date: 4.AUG.2023 22:10:20



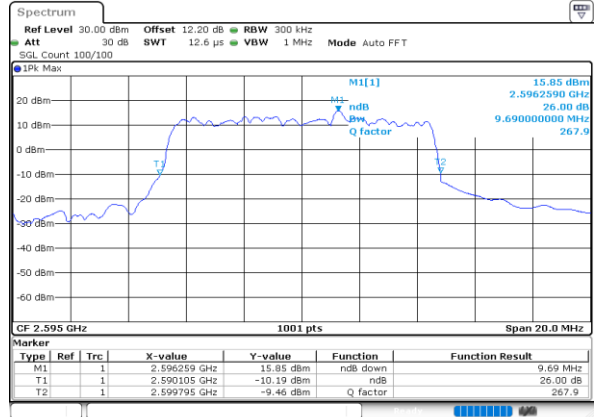
LTE Band 38

Middle Channel / 5MHz / 256QAM



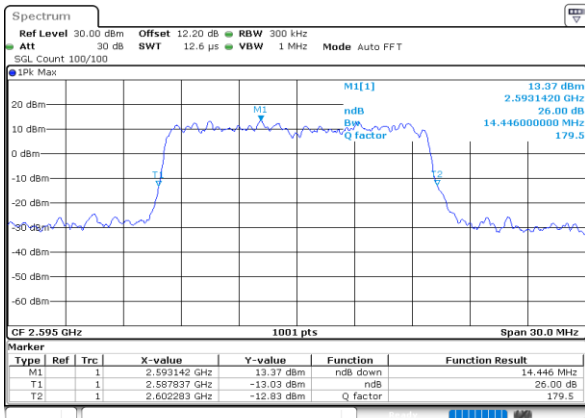
Date: 4.AUG.2023 22:12:24

Middle Channel / 10MHz / 256QAM



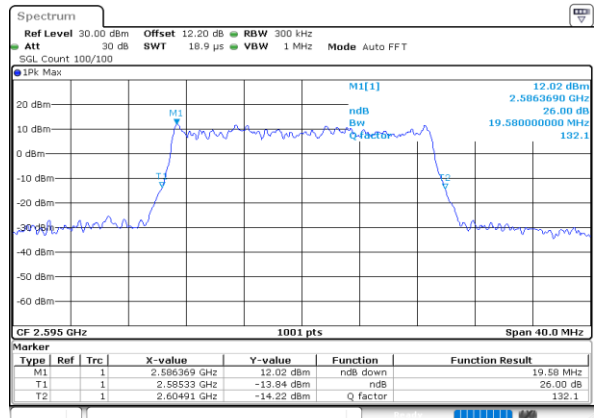
Date: 4.AUG.2023 22:13:12

Middle Channel / 15MHz / 256QAM



Date: 4.AUG.2023 22:14:01

Middle Channel / 20MHz / 256QAM



Date: 4.AUG.2023 22:14:49



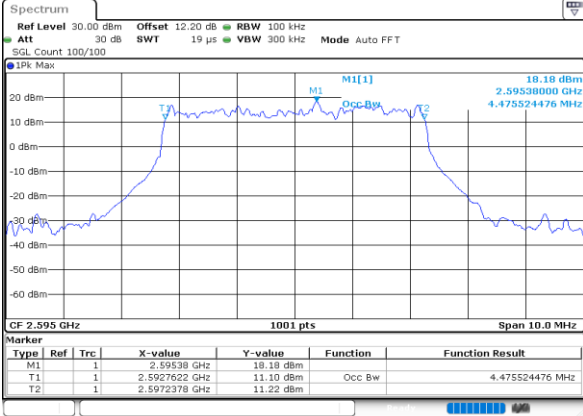
Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.51	9.13	9.07	13.49	13.43	17.98	17.78
Mode	LTE Band 38 : 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	-	-	-	-	4.51	4.50	9.01	9.07	13.40	13.40	17.90	17.90



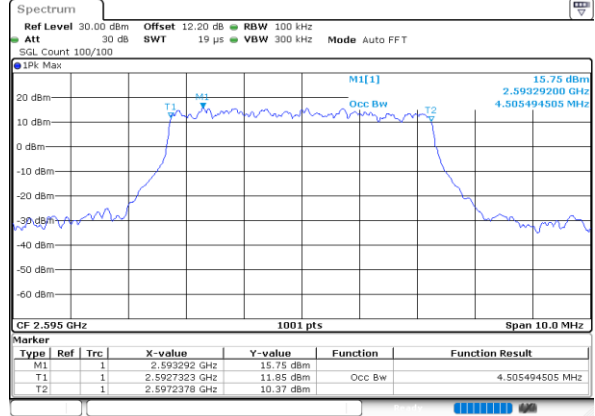
LTE Band 38

Middle Channel / 5MHz / QPSK



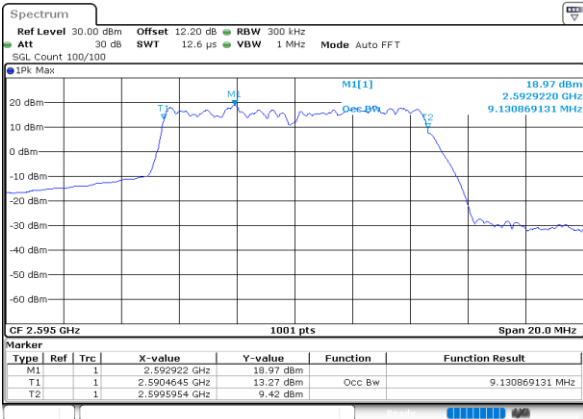
Date: 4.AUG.2023 21:59:18

Middle Channel / 5MHz / 16QAM



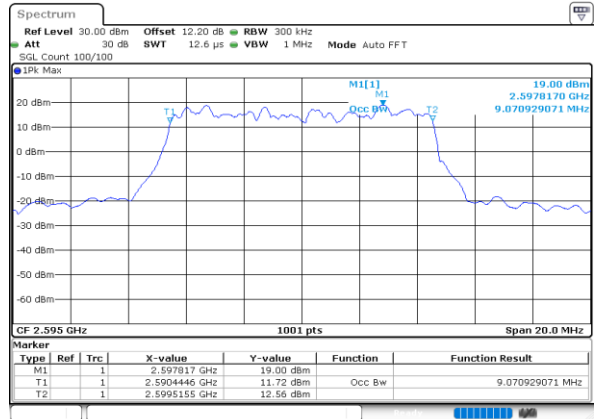
Date: 4.AUG.2023 22:00:07

Middle Channel / 10MHz / QPSK



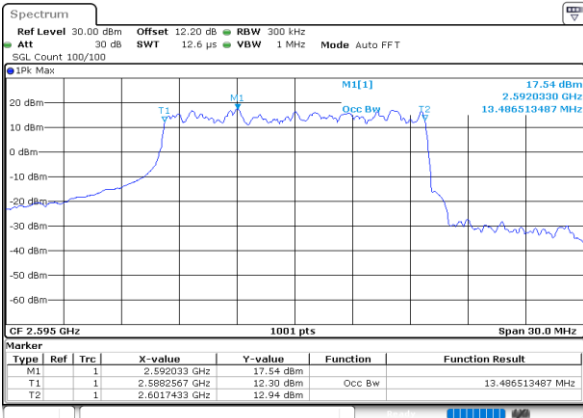
Date: 4.AUG.2023 22:01:39

Middle Channel / 10MHz / 16QAM



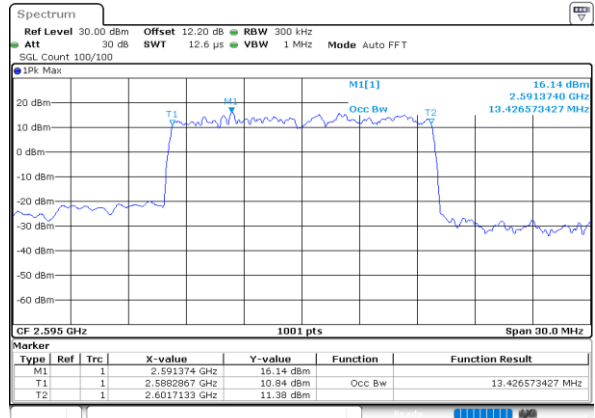
Date: 4.AUG.2023 22:02:07

Middle Channel / 15MHz / QPSK



Date: 4.AUG.2023 22:03:39

Middle Channel / 15MHz / 16QAM

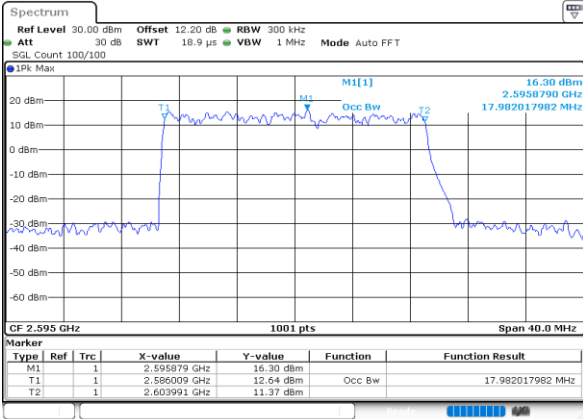


Date: 4.AUG.2023 22:04:08



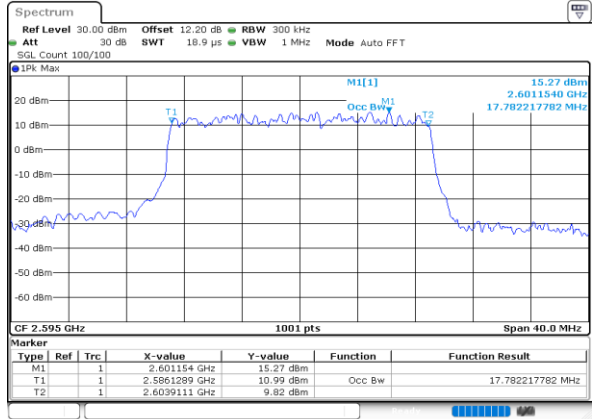
LTE Band 38

Middle Channel / 20MHz / QPSK



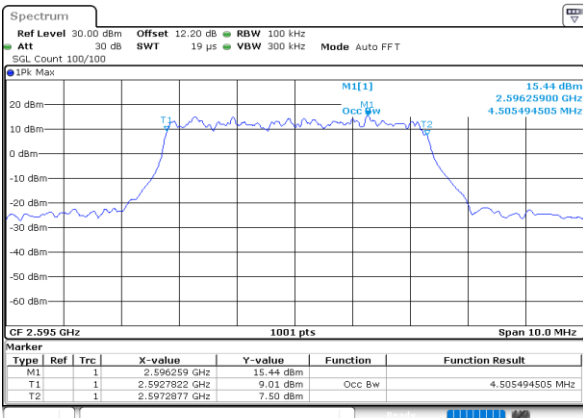
Date: 4.AUG.2023 22:05:40

Middle Channel / 20MHz / 16QAM



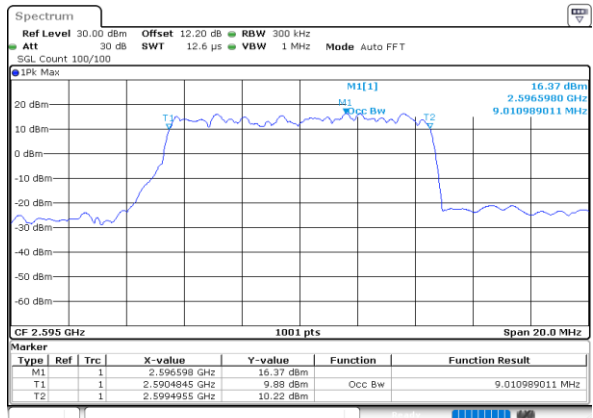
Date: 4.AUG.2023 22:06:09

Middle Channel / 5MHz / 64QAM



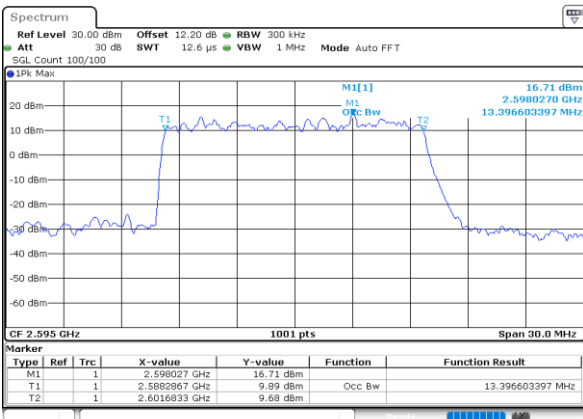
Date: 4.AUG.2023 22:07:41

Middle Channel / 10MHz / 64QAM



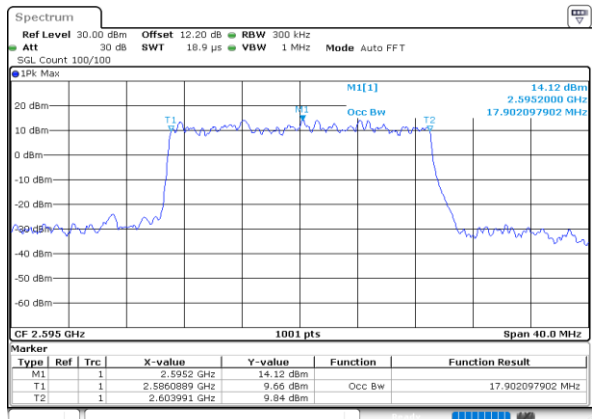
Date: 4.AUG.2023 22:08:29

Middle Channel / 15MHz / 64QAM



Date: 4.AUG.2023 22:09:18

Middle Channel / 20MHz / 64QAM

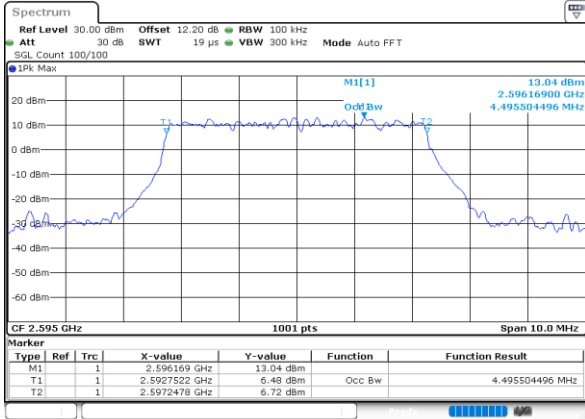


Date: 4.AUG.2023 22:10:06



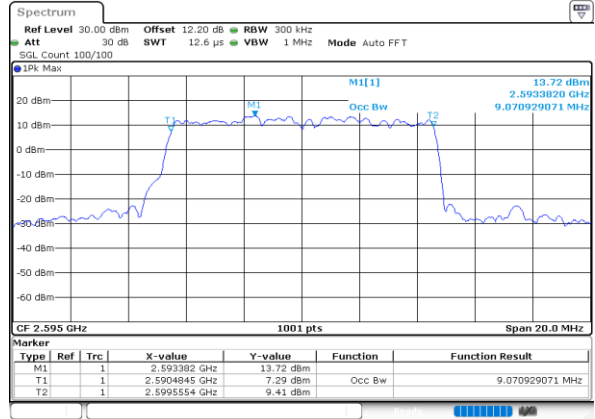
LTE Band 38

Middle Channel / 5MHz / 256QAM



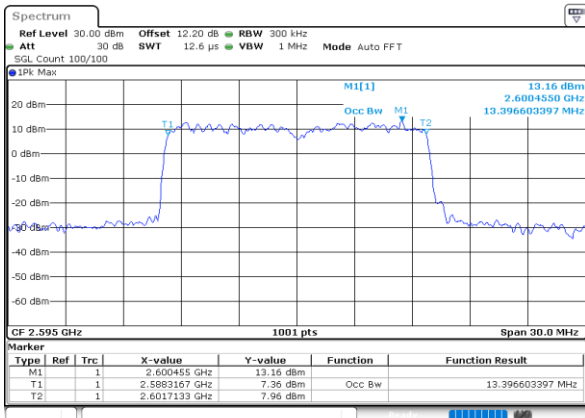
Date: 4.AUG.2023 22:12:10

Middle Channel / 10MHz / 256QAM



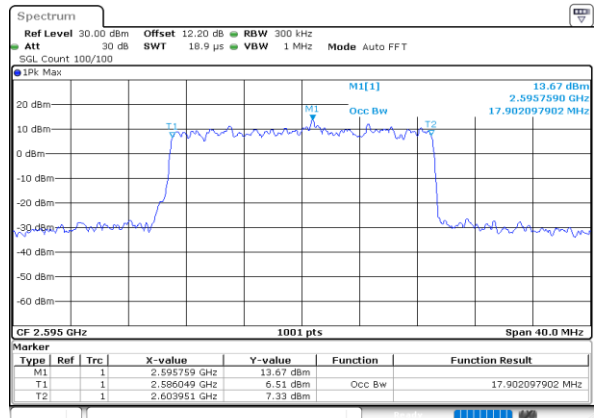
Date: 4.AUG.2023 22:12:58

Middle Channel / 15MHz / 256QAM



Date: 4.AUG.2023 22:13:47

Middle Channel / 20MHz / 256QAM



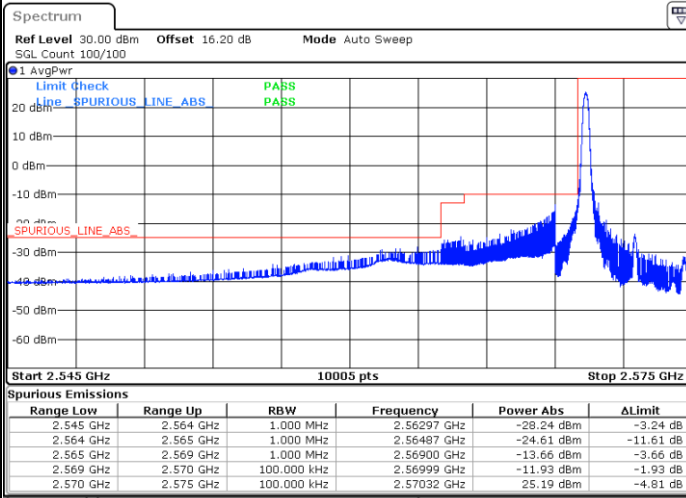
Date: 4.AUG.2023 22:14:35



Conducted Band Edge

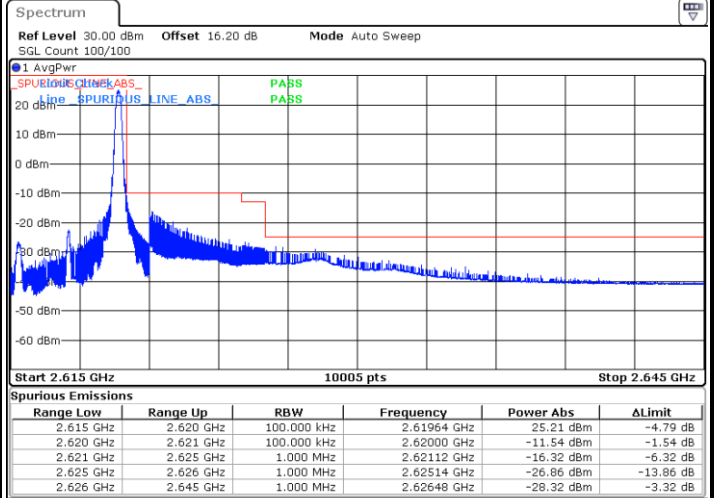
LTE Band 38 / 5MHz / QPSK

Lowest Band Edge / 1 RB



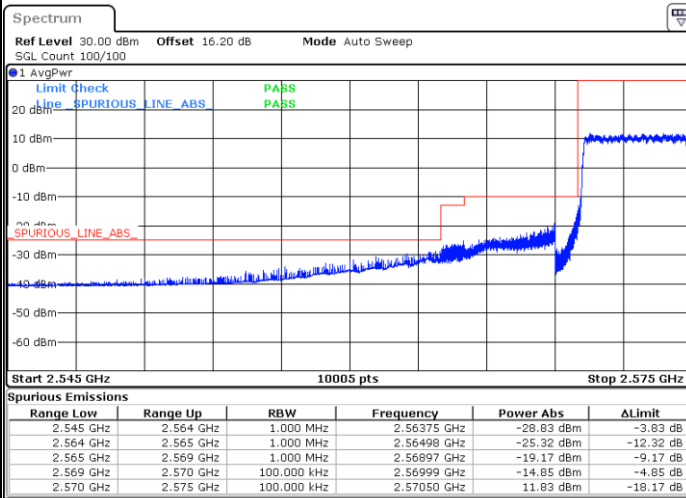
Date: 18.JUL.2023 19:07:23

Highest Band Edge / 1 RB



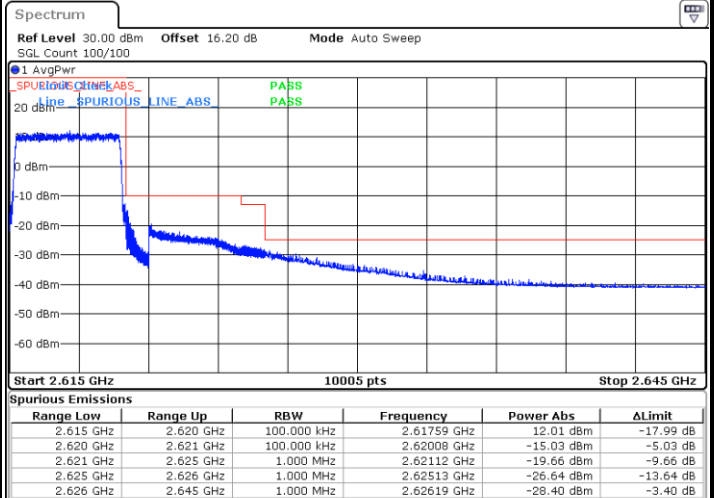
Date: 18.JUL.2023 18:00:49

Lowest Band Edge / Full RB



Date: 18.JUL.2023 15:16:55

Highest Band Edge / Full RB

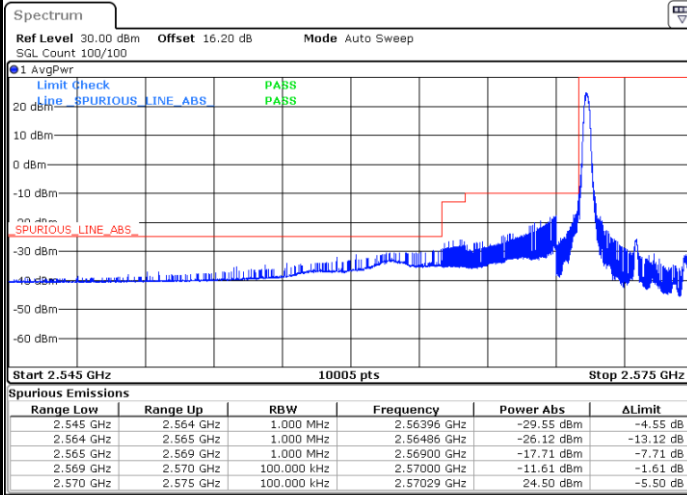


Date: 18.JUL.2023 15:18:55



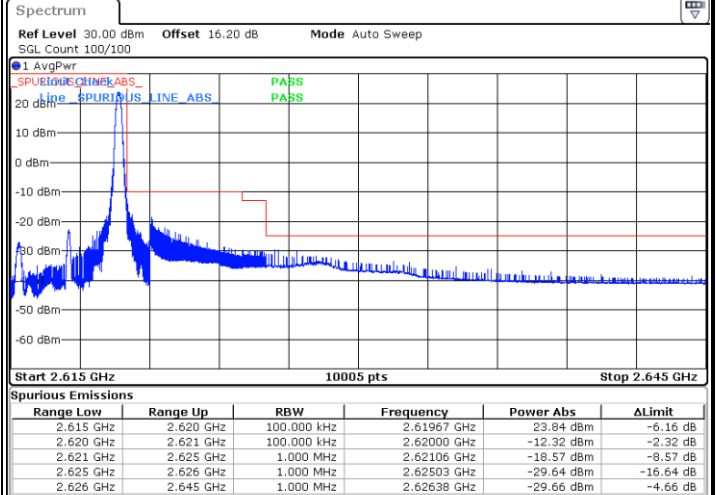
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



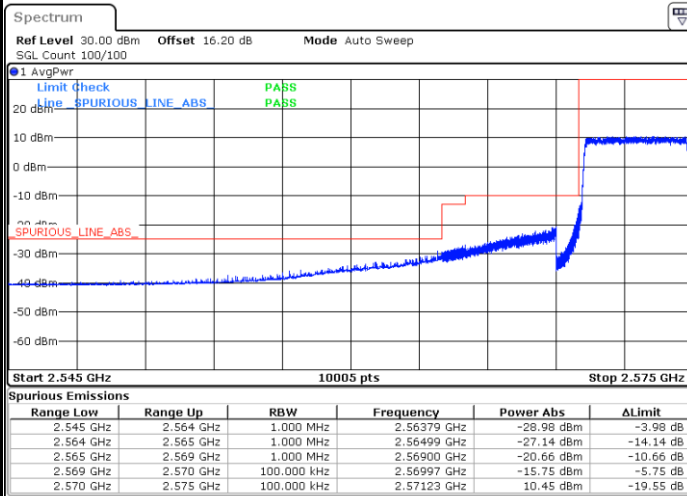
Date: 18.JUL.2023 18:57:05

Highest Band Edge / 1 RB



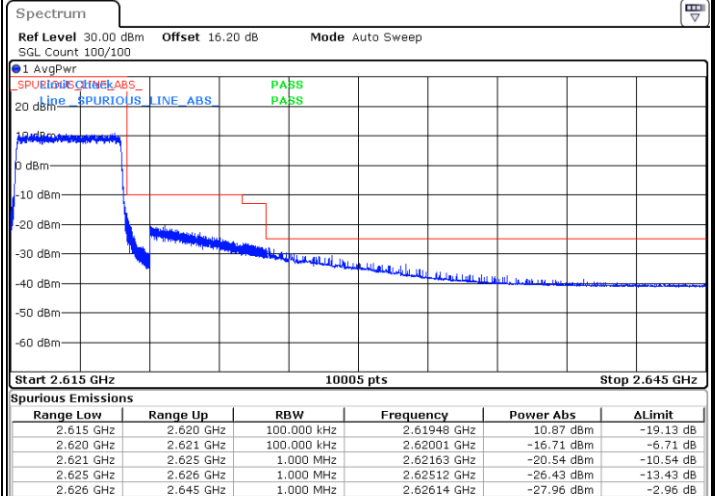
Date: 18.JUL.2023 17:46:25

Lowest Band Edge / Full RB



Date: 18.JUL.2023 15:17:55

Highest Band Edge / Full RB



Date: 18.JUL.2023 15:19:55