

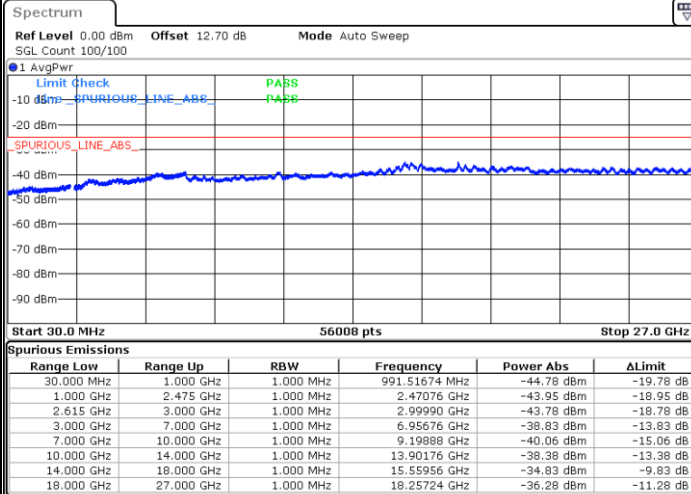


LTE Band 7C / 20MHz+10MHz

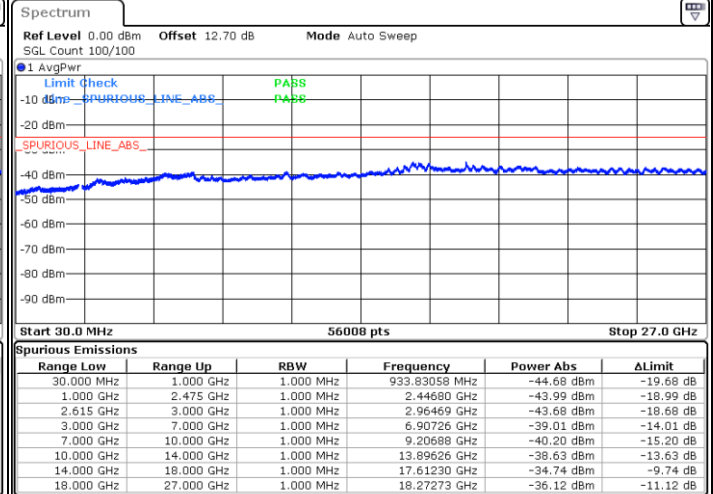
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



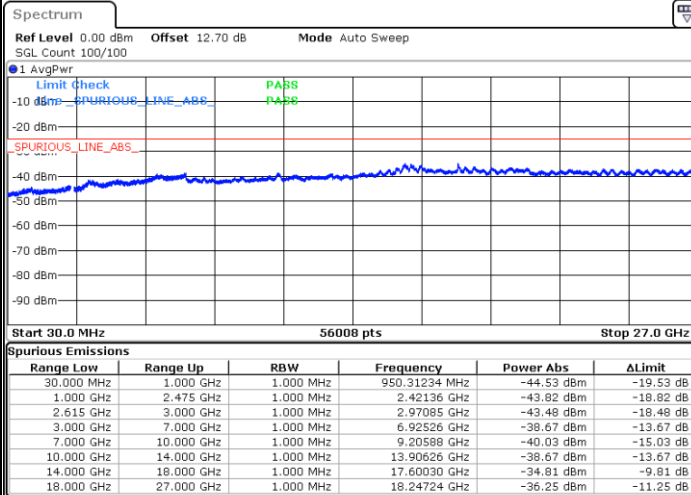
Date: 25.APR.2023 12:59:46



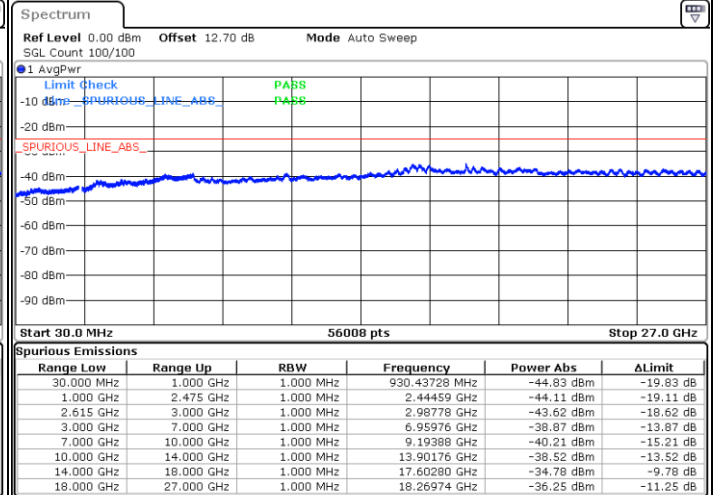
Date: 25.APR.2023 12:58:30

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Date: 25.APR.2023 13:01:08



Date: 25.APR.2023 13:02:24

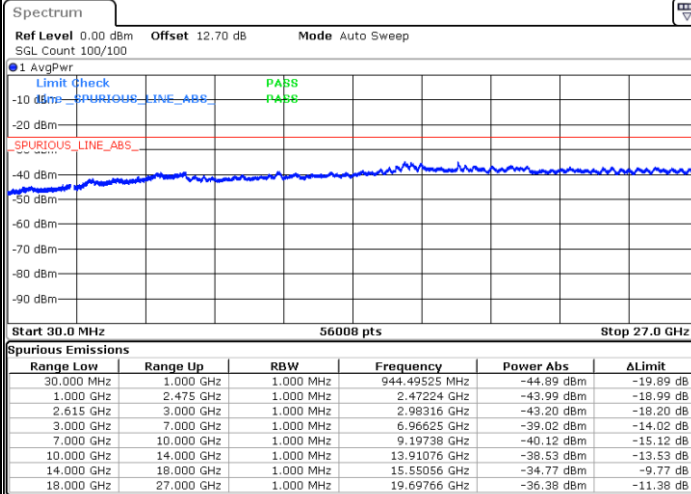


LTE Band 7C / 20MHz+10MHz

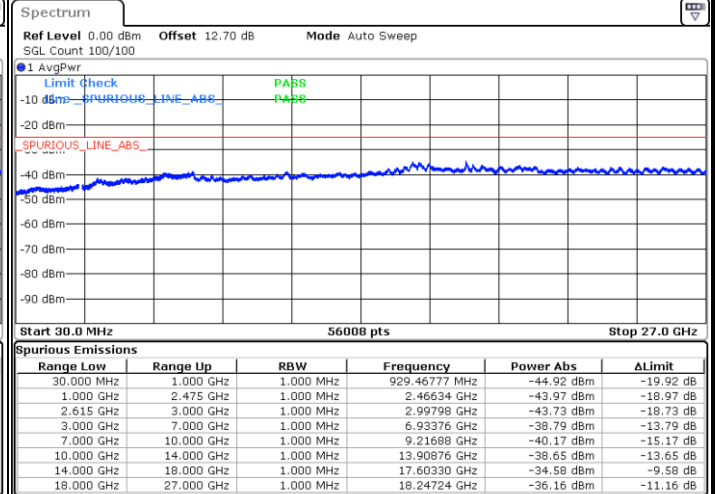
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



Date: 25.APR.2023 12:54:28



Date: 25.APR.2023 12:53:12



LTE Band 7C / 20MHz+15MHz

QPSK

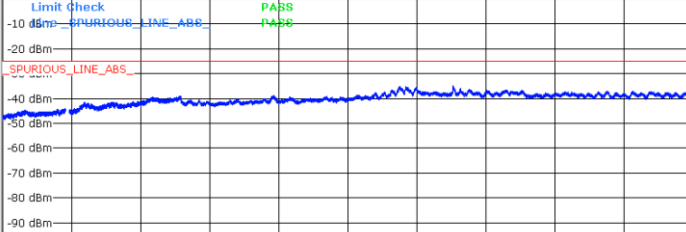
Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0

Spectrum

Ref Level 0.00 dBm Offset 12.70 dB Mode Auto Sweep
SGL Count 100/100

1 AvgPwr



Start 30.0 MHz 56008 pts Stop 27.0 GHz

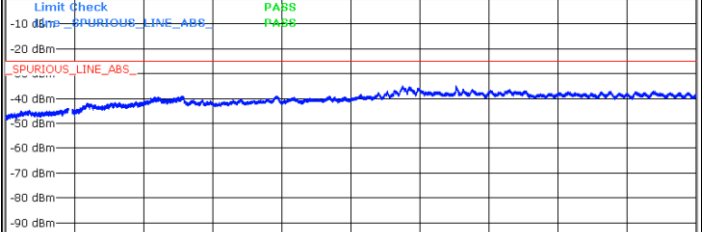
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	882.93103 MHz	-44.84 dBm	-19.84 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.44901 GHz	-43.97 dBm	-18.97 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.99586 GHz	-43.87 dBm	-18.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96625 GHz	-38.99 dBm	-13.99 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.19688 GHz	-40.31 dBm	-15.31 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.92076 GHz	-38.75 dBm	-13.75 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.61580 GHz	-34.90 dBm	-9.90 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.27323 GHz	-36.17 dBm	-11.17 dB

Spectrum

Ref Level 0.00 dBm Offset 12.70 dB Mode Auto Sweep
SGL Count 100/100

1 AvgPwr



Start 30.0 MHz 56008 pts Stop 27.0 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-44.73 dBm	-19.73 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45601 GHz	-43.93 dBm	-18.93 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.99317 GHz	-43.80 dBm	-18.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90626 GHz	-39.08 dBm	-14.08 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.20138 GHz	-40.28 dBm	-15.28 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90976 GHz	-38.46 dBm	-13.46 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60180 GHz	-34.88 dBm	-9.88 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.25874 GHz	-36.40 dBm	-11.40 dB

Date: 25.APR.2023 15:04:25

Date: 25.APR.2023 15:03:09

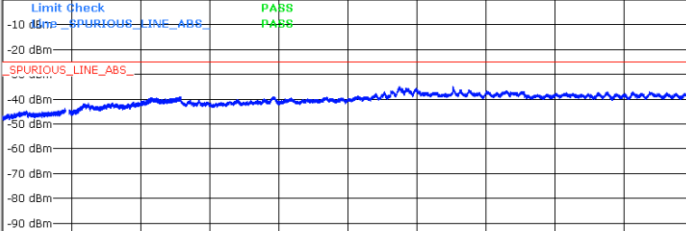
Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0

Spectrum

Ref Level 0.00 dBm Offset 12.70 dB Mode Auto Sweep
SGL Count 100/100

1 AvgPwr



Start 30.0 MHz 56008 pts Stop 27.0 GHz

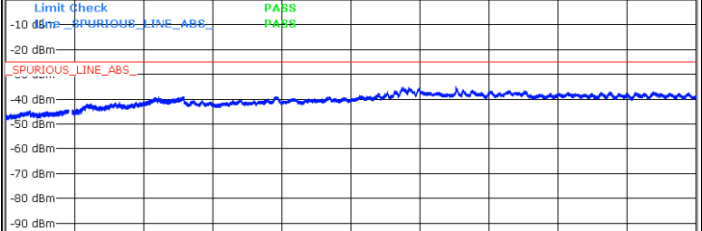
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-44.71 dBm	-19.71 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46965 GHz	-43.79 dBm	-18.79 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.98894 GHz	-43.73 dBm	-18.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93576 GHz	-38.96 dBm	-13.96 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.21038 GHz	-40.30 dBm	-15.30 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.91526 GHz	-38.66 dBm	-13.66 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60680 GHz	-34.80 dBm	-9.80 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.27373 GHz	-36.35 dBm	-11.35 dB

Spectrum

Ref Level 0.00 dBm Offset 12.70 dB Mode Auto Sweep
SGL Count 100/100

1 AvgPwr



Start 30.0 MHz 56008 pts Stop 27.0 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	971.15692 MHz	-44.78 dBm	-19.78 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47187 GHz	-44.21 dBm	-19.21 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.97181 GHz	-43.71 dBm	-18.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92276 GHz	-38.97 dBm	-13.97 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.20088 GHz	-40.07 dBm	-15.07 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.85727 GHz	-38.47 dBm	-13.47 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60580 GHz	-34.91 dBm	-9.91 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.26224 GHz	-36.37 dBm	-11.37 dB

Date: 25.APR.2023 15:07:27

Date: 25.APR.2023 15:08:43

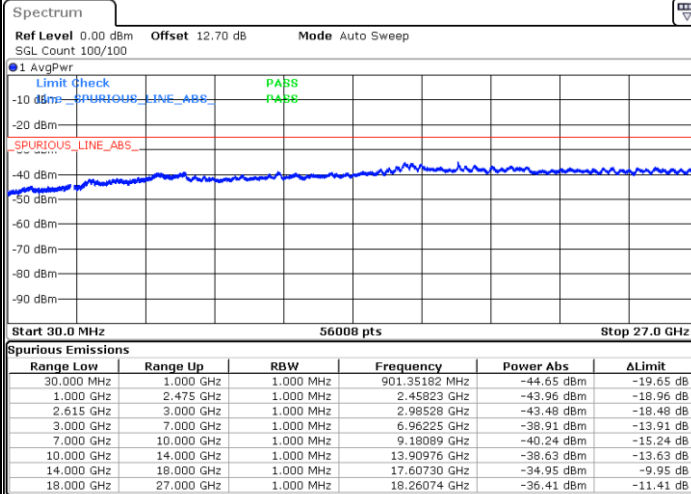


LTE Band 7C / 20MHz+15MHz

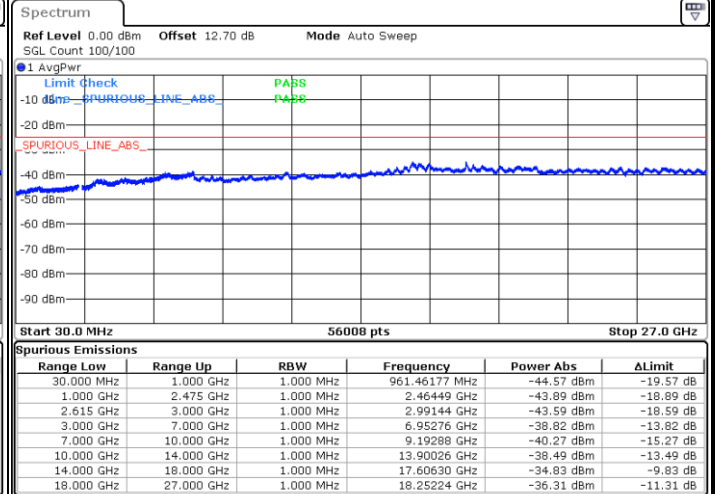
QPSK

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



Date: 25.APR.2023 15:01:53



Date: 25.APR.2023 15:00:37

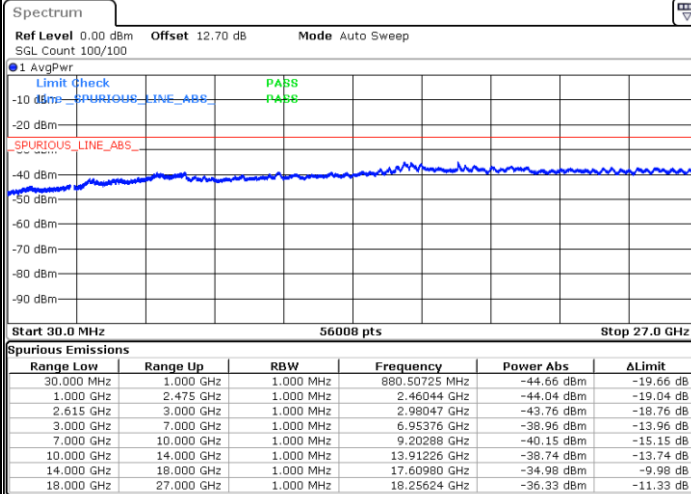


LTE Band 7C / 20MHz+20MHz

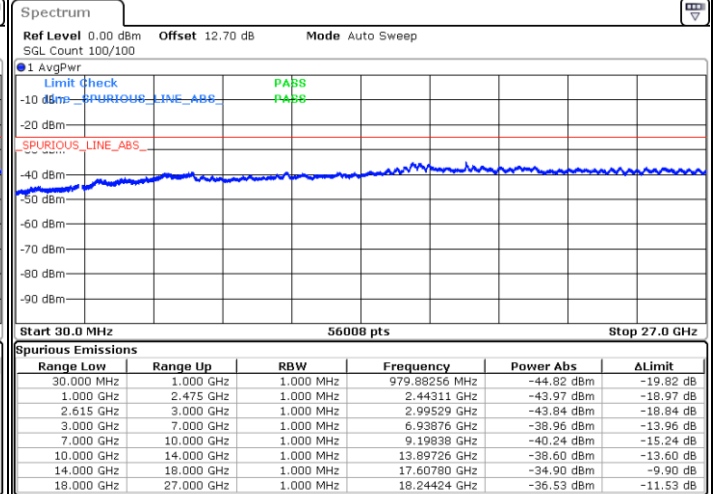
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



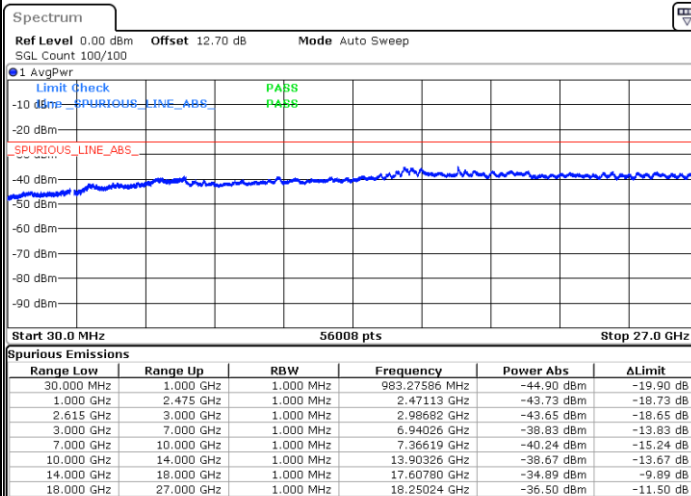
Date: 25.APR.2023 15:16:20



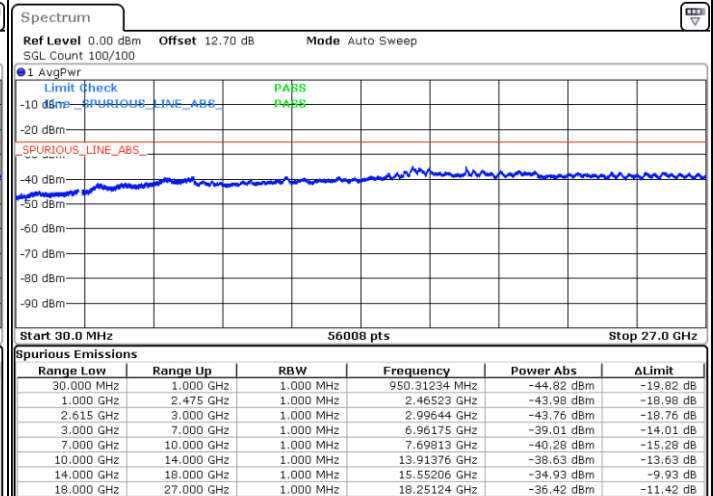
Date: 25.APR.2023 15:15:04

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 25.APR.2023 15:21:06



Date: 25.APR.2023 15:22:22

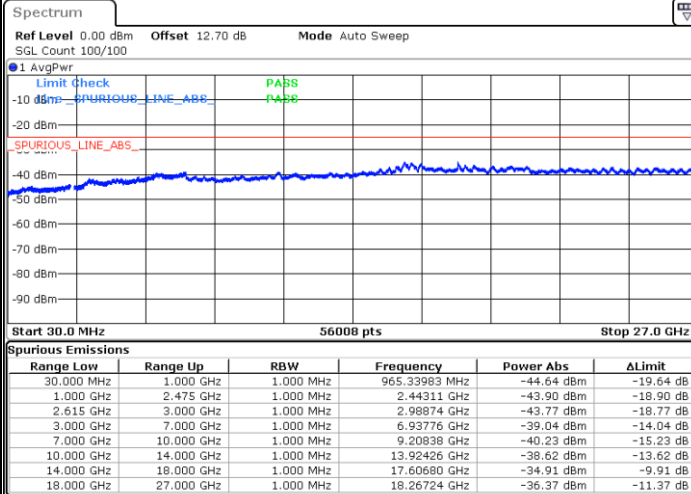


LTE Band 7C / 20MHz+20MHz

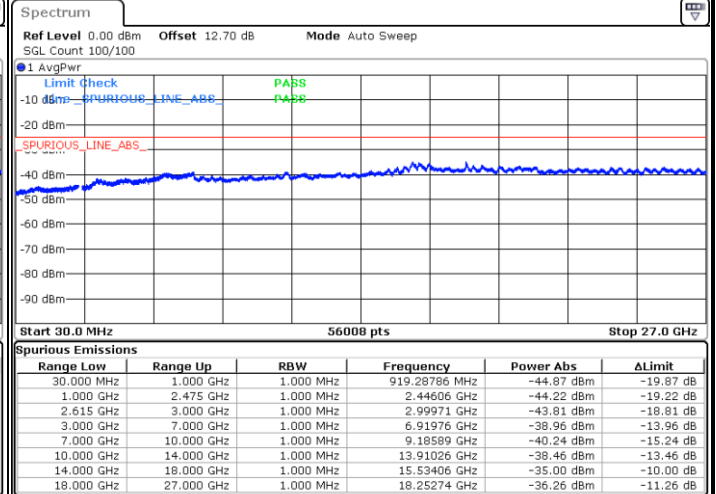
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 25.APR.2023 15:13:48



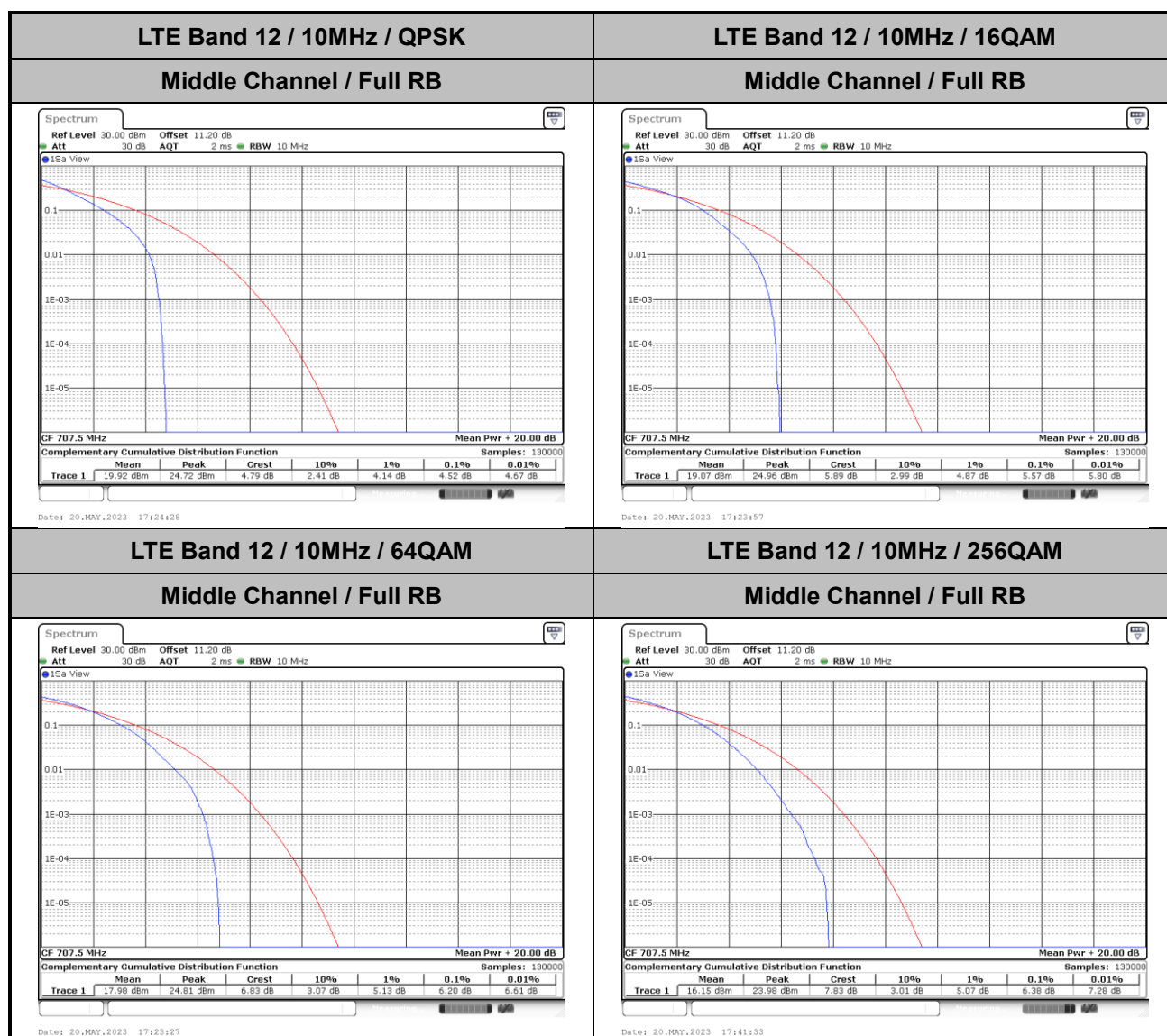
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LTE Band 12

Peak-to-Average Ratio

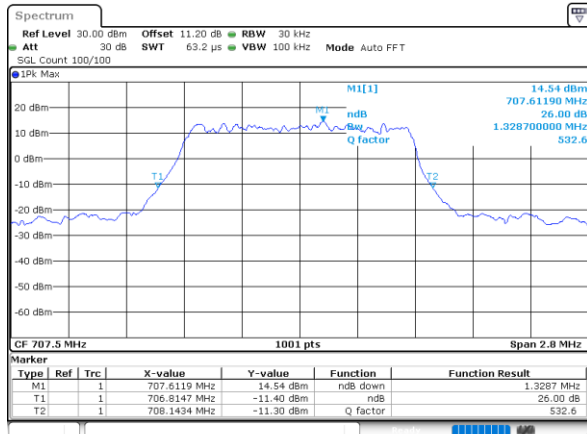
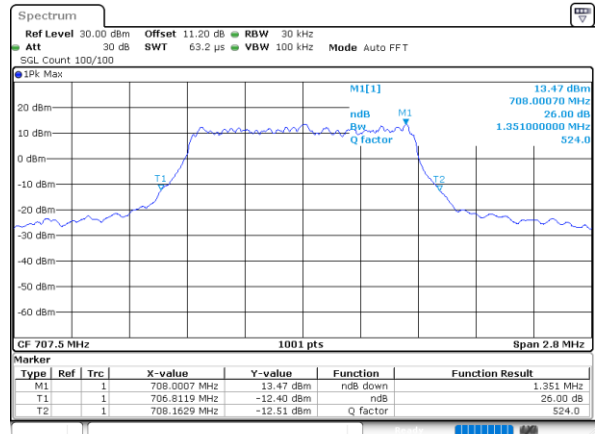
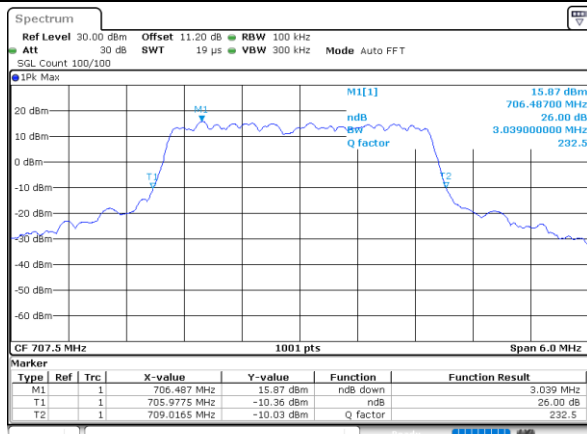
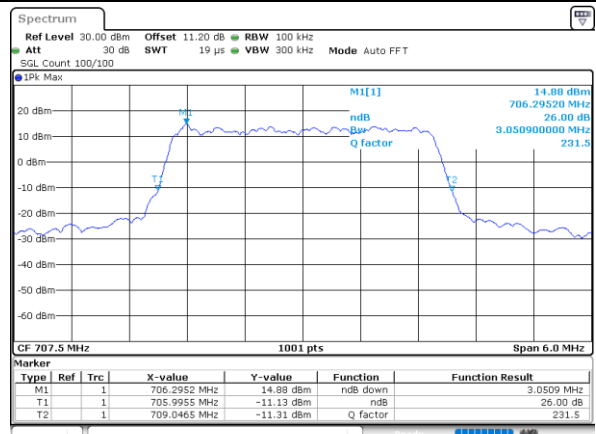
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.57	6.20	6.38	PASS



**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.33	1.35	3.04	3.05	5.18	5.04	9.83	9.85

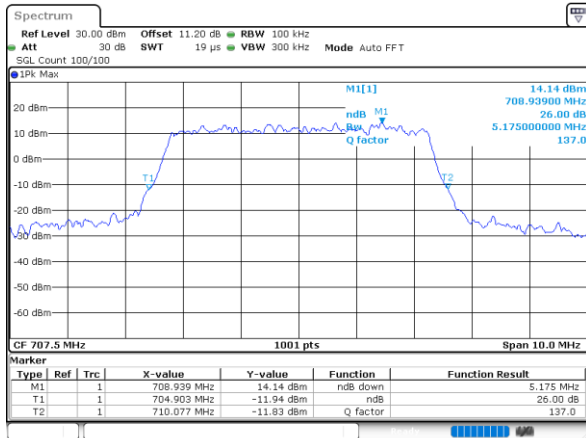
Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.30	1.35	3.05	3.09	5.06	5.10	9.91	9.91

LTE Band 12**Middle Channel / 1.4MHz / QPSK****Middle Channel / 1.4MHz / 16QAM****Middle Channel / 3MHz / QPSK****Middle Channel / 3MHz / 16QAM**

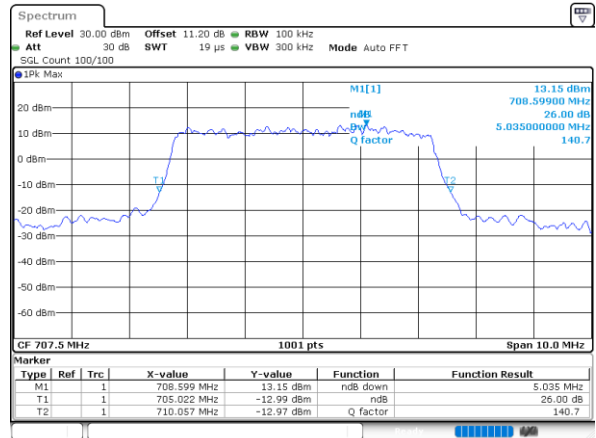


LTE Band 12

Middle Channel / 5MHz / QPSK



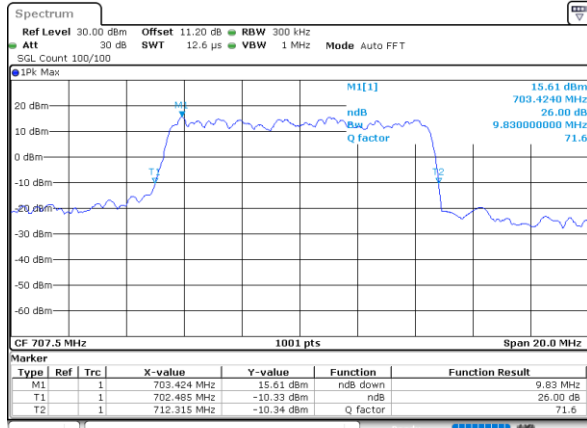
Middle Channel / 5MHz / 16QAM





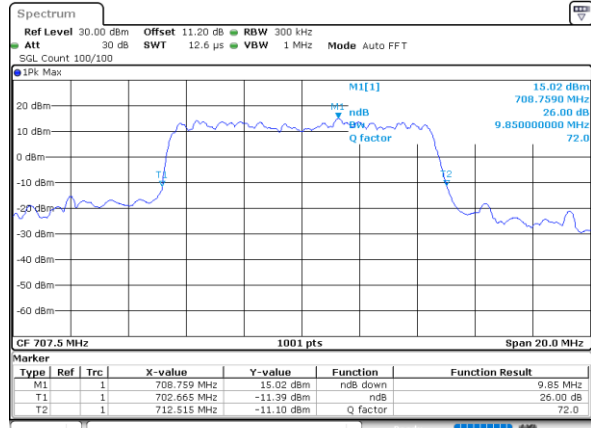
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 20.MAY.2023 17:16:25

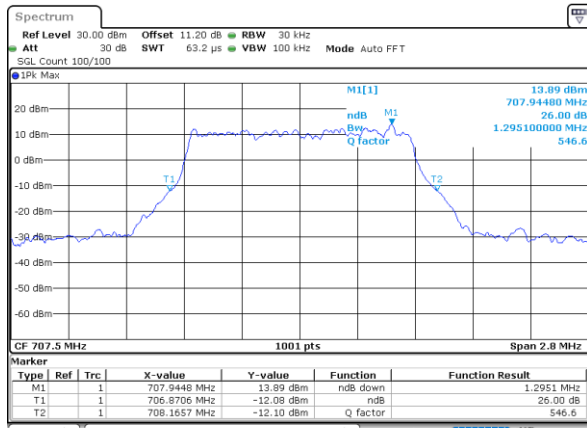
Middle Channel / 10MHz / 16QAM



Date: 20.MAY.2023 17:16:55

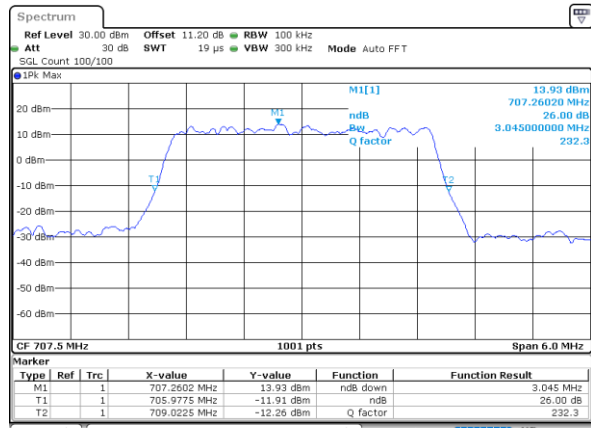
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



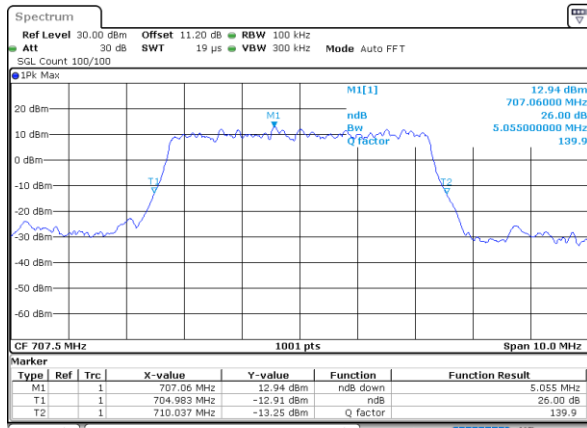
Date: 20.MAY.2023 16:48:57

Middle Channel / 3MHz / 64QAM



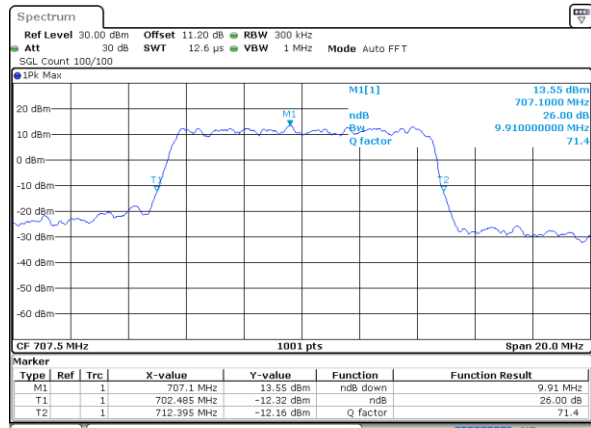
Date: 20.MAY.2023 17:00:44

Middle Channel / 5MHz / 64QAM



Date: 20.MAY.2023 17:04:10

Middle Channel / 10MHz / 64QAM

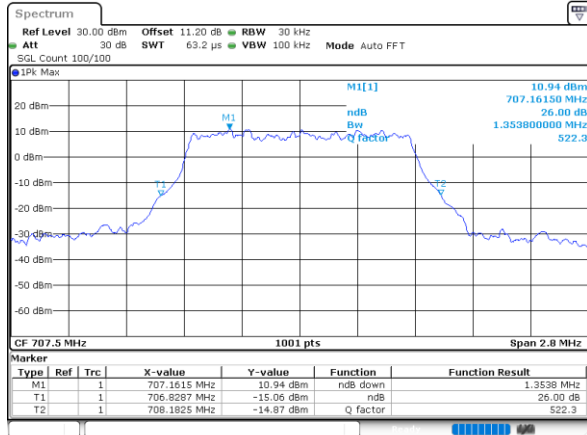


Date: 20.MAY.2023 17:21:37



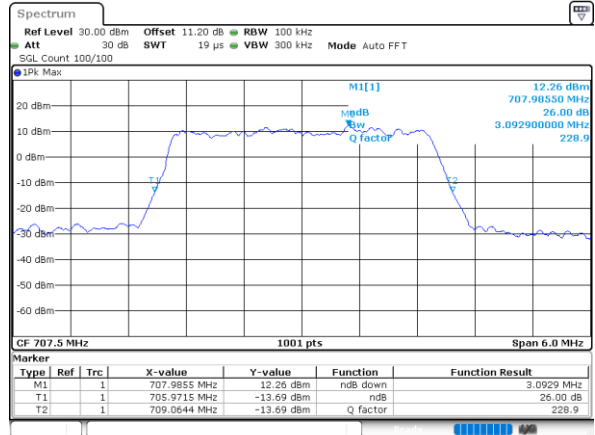
LTE Band 12

Middle Channel / 1.4MHz / 256QAM



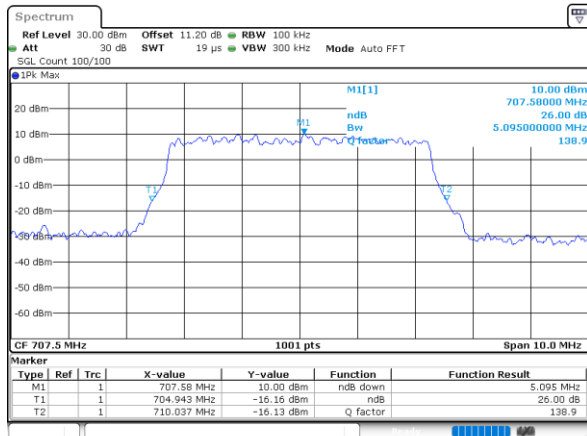
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Middle Channel / 3MHz / 256QAM



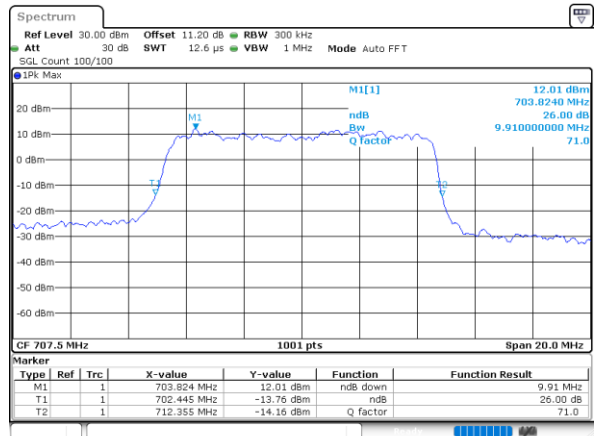
Date: 20, MAY, 2023 17:32:49

Middle Channel / 5MHz / 256QAM



Date: 20, MAY, 2023 17:36:16

Middle Channel / 10MHz / 256QAM



Date: 20, MAY, 2023 17:39:44



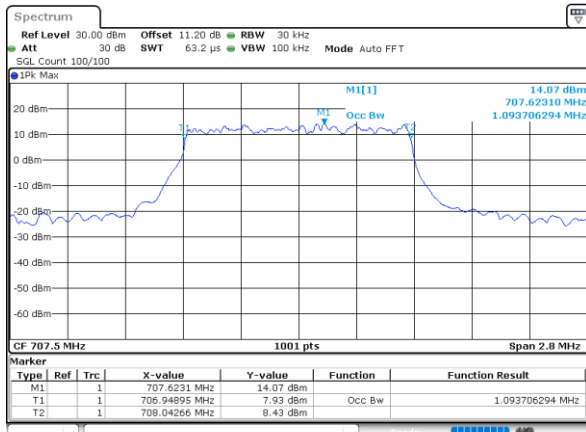
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.73	2.72	4.52	4.50	9.01	9.07

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.10	1.10	2.72	2.73	4.48	4.55	9.01	8.99

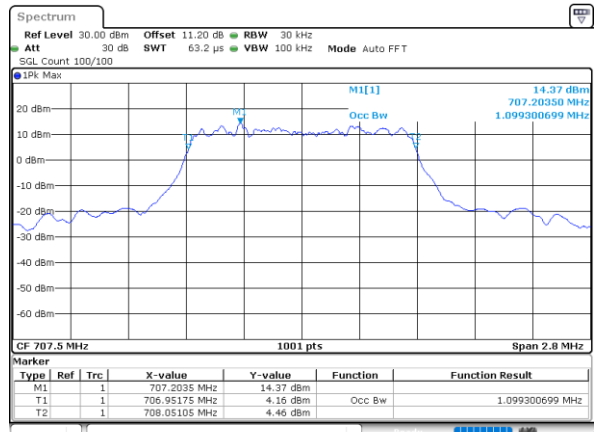
LTE Band 12

Middle Channel / 1.4MHz / QPSK



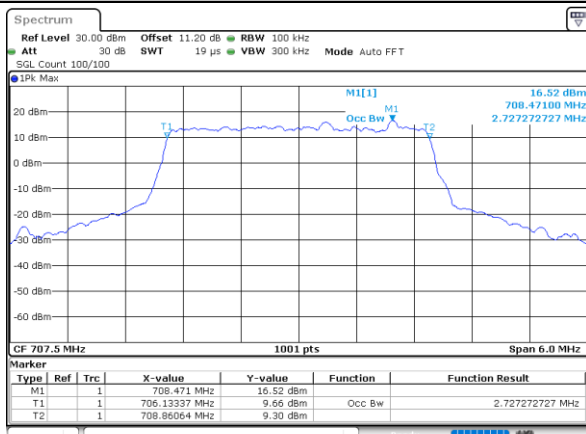
Date: 20.MAY.2023 16:36:57

Middle Channel / 1.4MHz / 16QAM



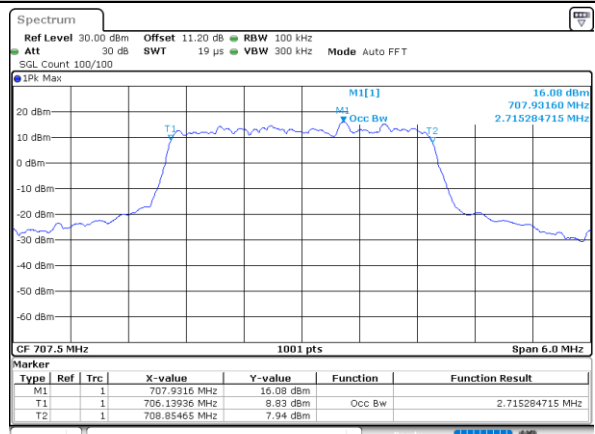
Date: 20.MAY.2023 16:36:28

Middle Channel / 3MHz / QPSK



Date: 20.MAY.2023 16:55:18

Middle Channel / 3MHz / 16QAM

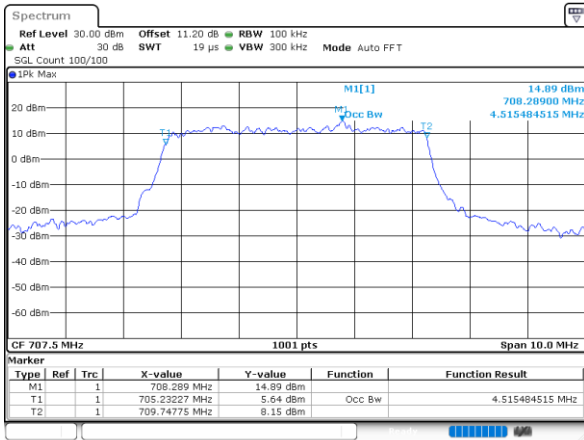


Date: 20.MAY.2023 16:54:50

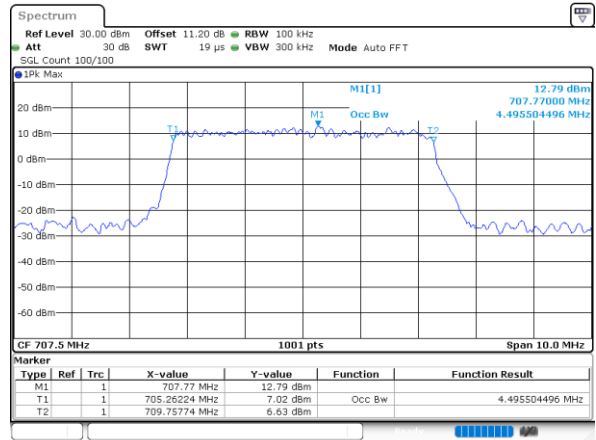


LTE Band 12

Middle Channel / 5MHz / QPSK



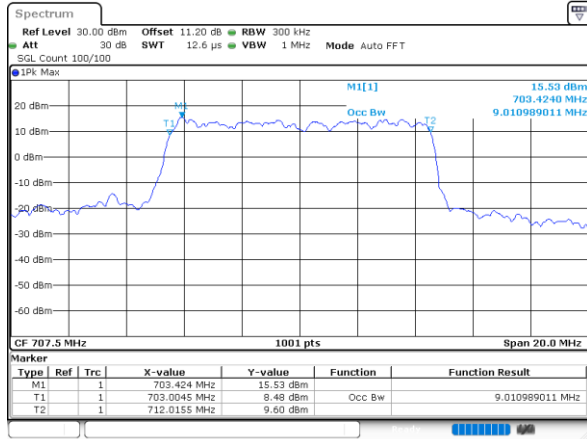
Middle Channel / 5MHz / 16QAM



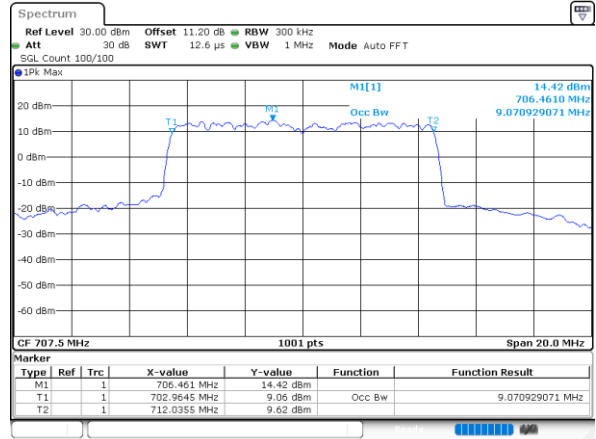


LTE Band 12

Middle Channel / 10MHz / QPSK

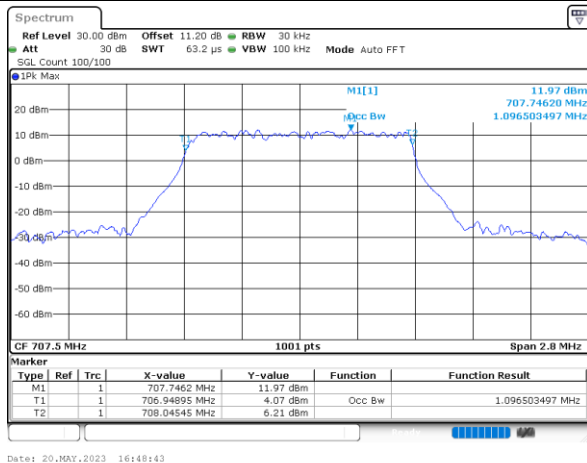


Middle Channel / 10MHz / 16QAM

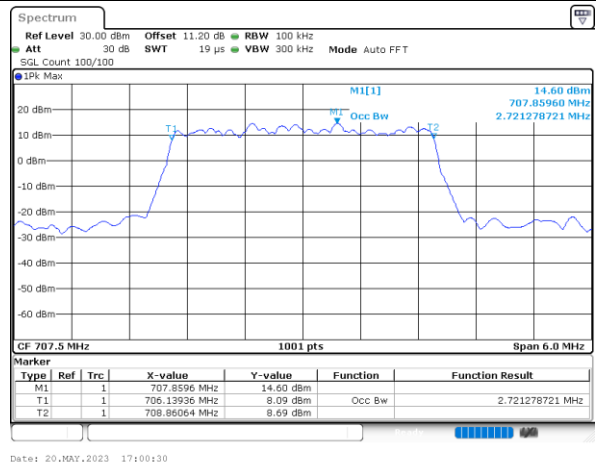


LTE Band 12

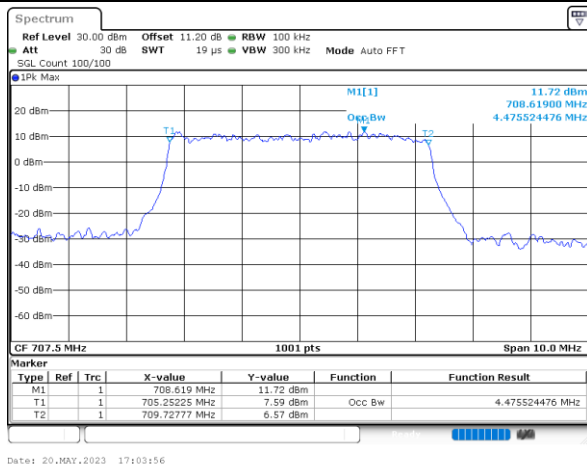
Middle Channel / 1.4MHz / 64QAM



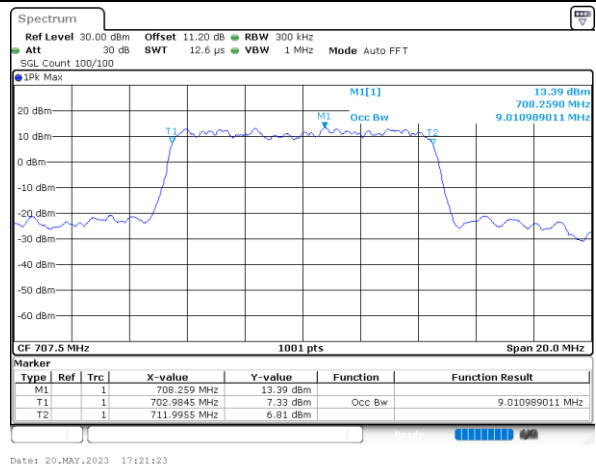
Middle Channel / 3MHz / 64QAM



Middle Channel / 5MHz / 64QAM



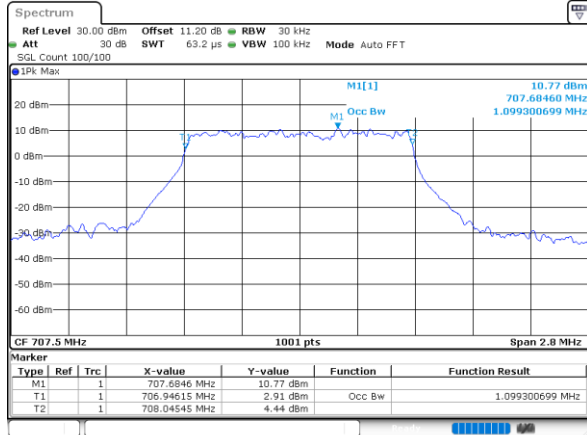
Middle Channel / 10MHz / 64QAM



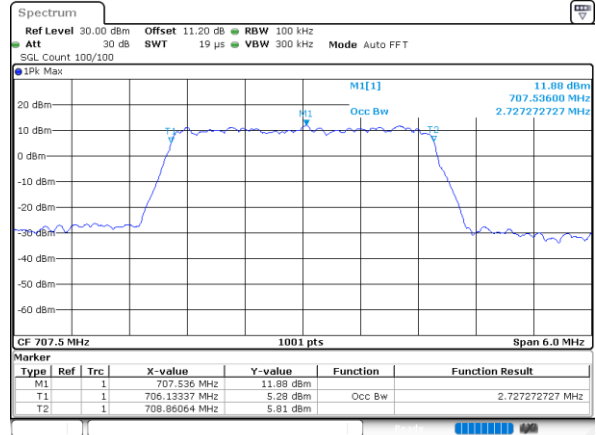


LTE Band 12

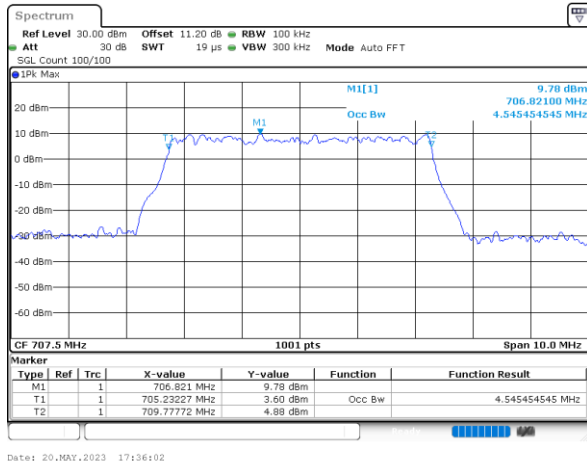
Middle Channel / 1.4MHz / 256QAM



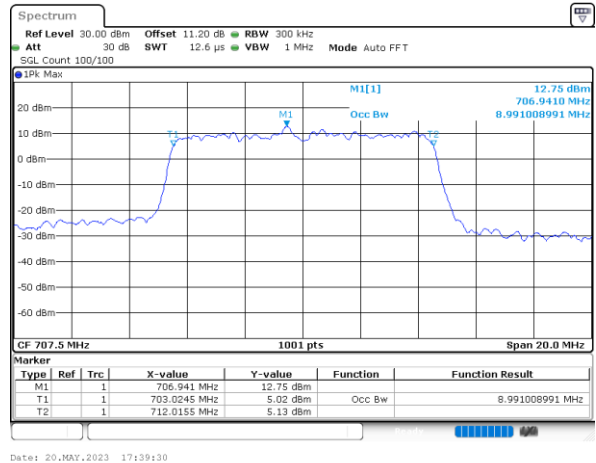
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM

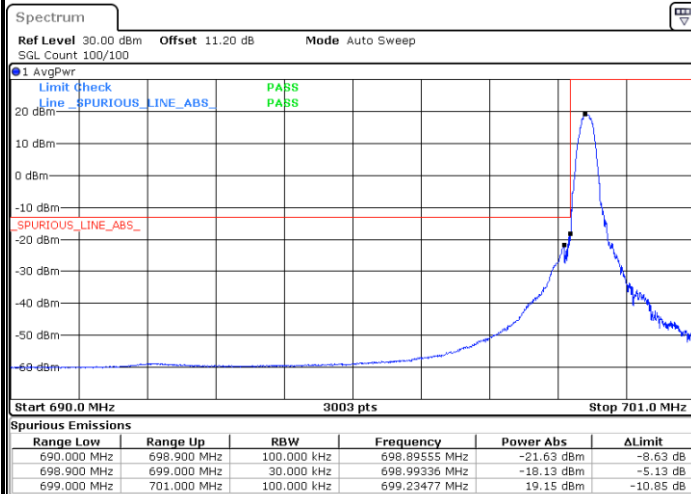




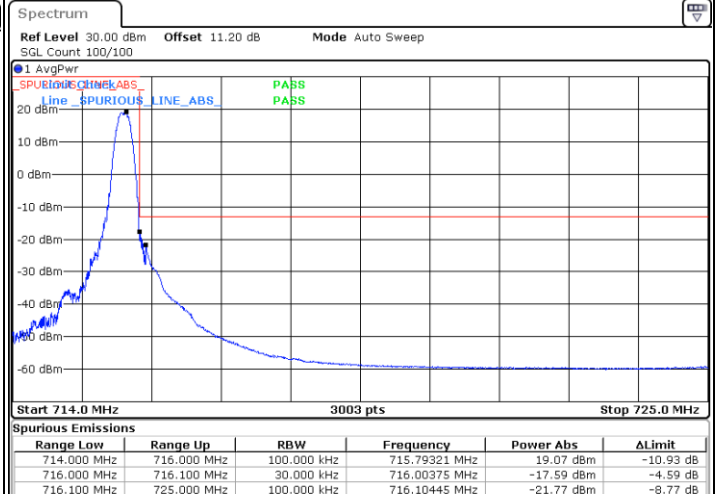
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

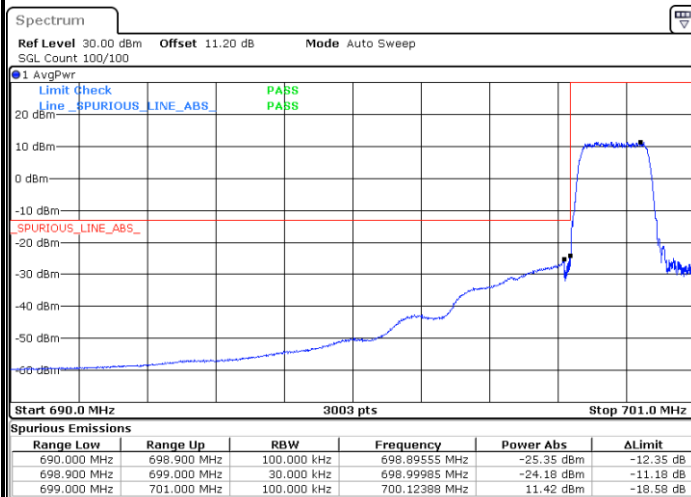
Lowest Band Edge / 1RB



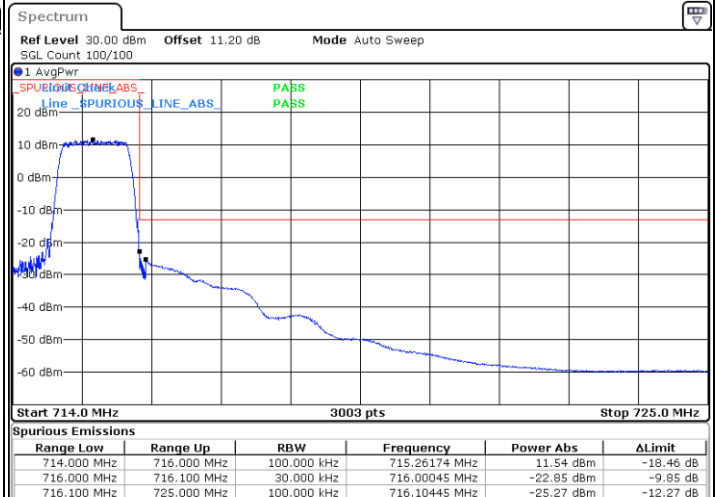
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



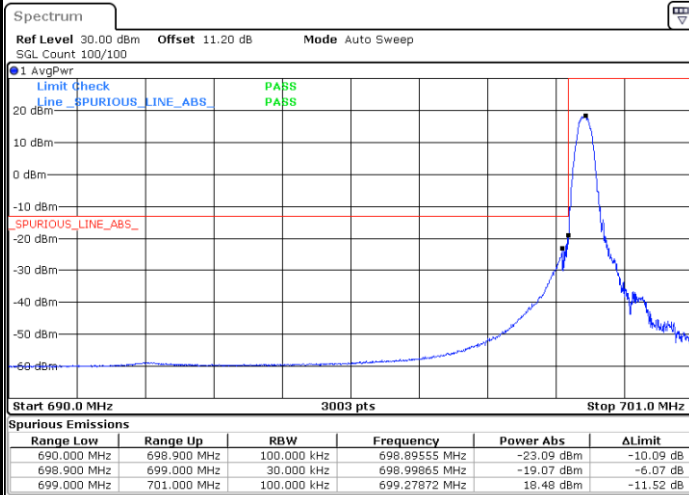
Highest Band Edge / Full RB





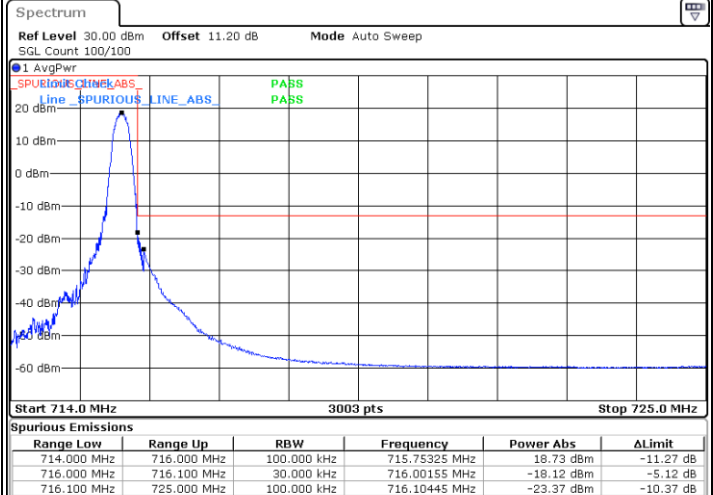
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



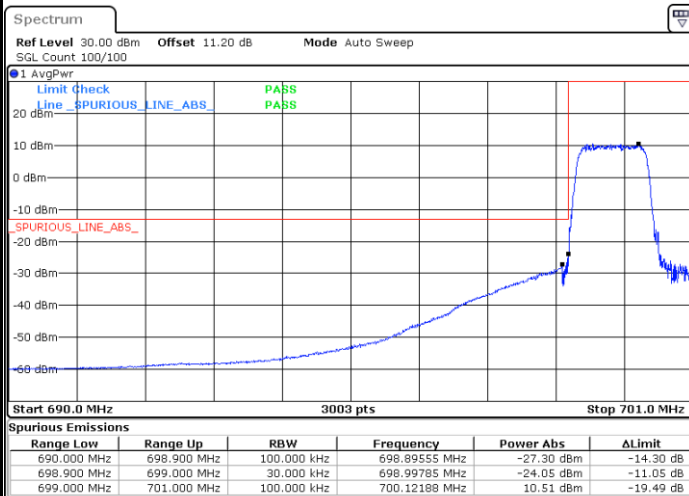
Date: 20.MAY.2023 16:33:35

Highest Band Edge / 1 RB



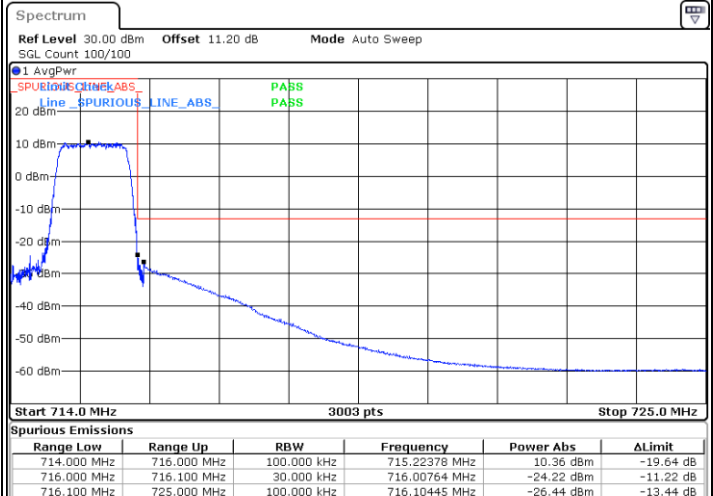
Date: 20.MAY.2023 16:42:55

Lowest Band Edge / Full RB



Date: 20.MAY.2023 16:32:15

Highest Band Edge / Full RB

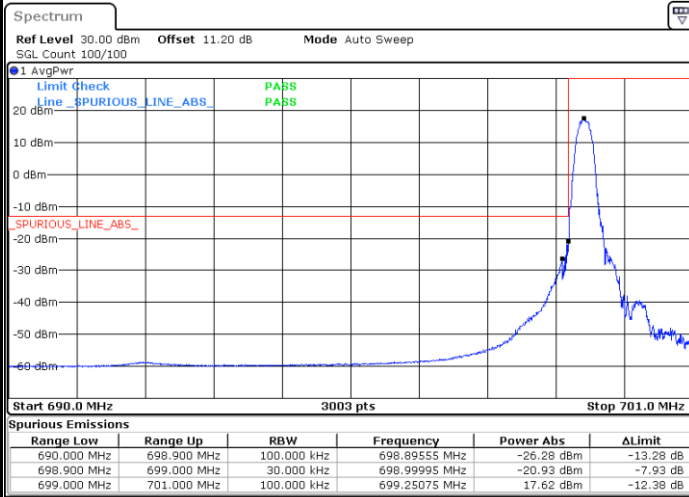


Date: 20.MAY.2023 16:41:36

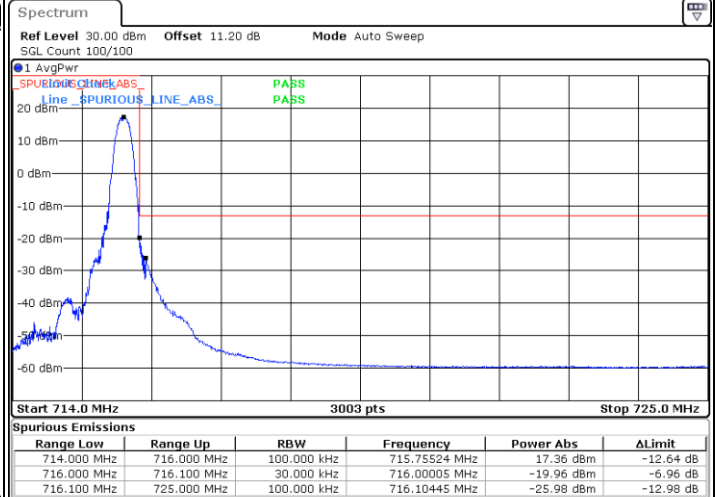


LTE Band 12 / 1.4MHz / 64QAM

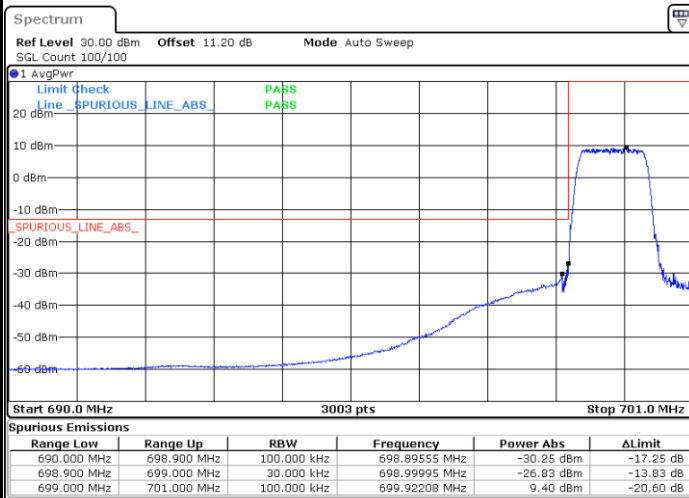
Lowest Band Edge / 1 RB



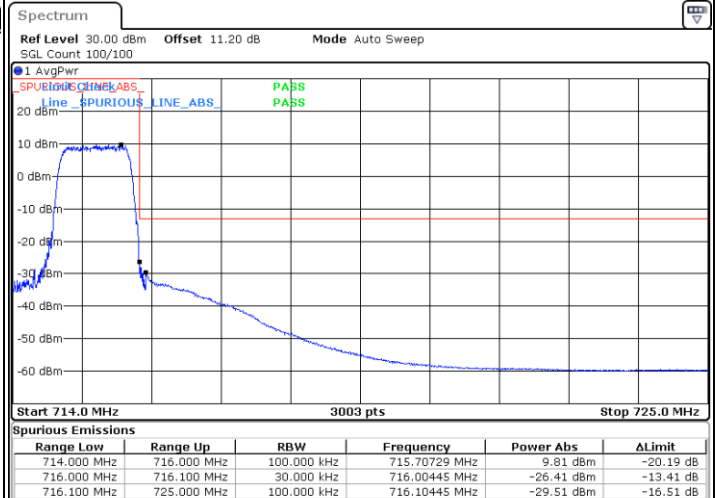
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



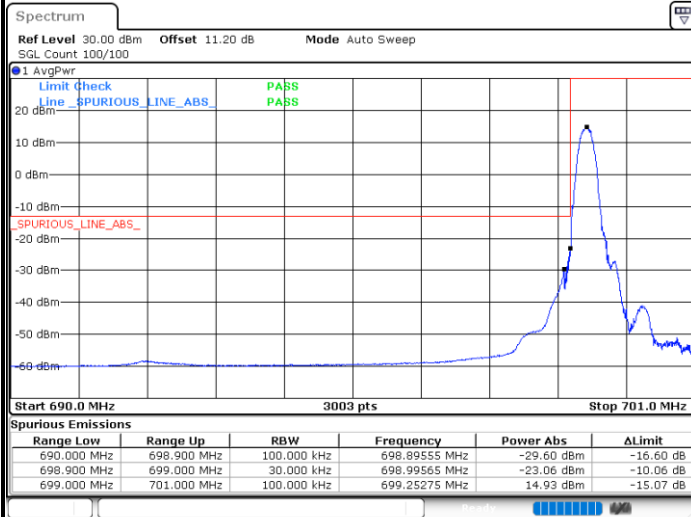
Highest Band Edge / Full RB



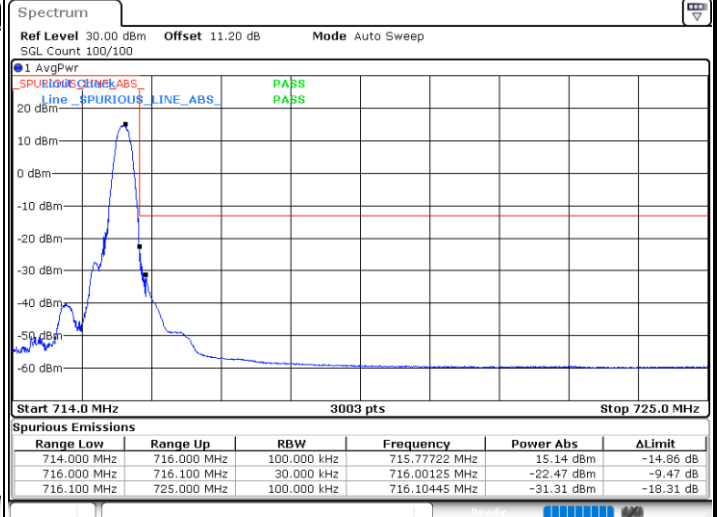


LTE Band 12 / 1.4MHz / 256QAM

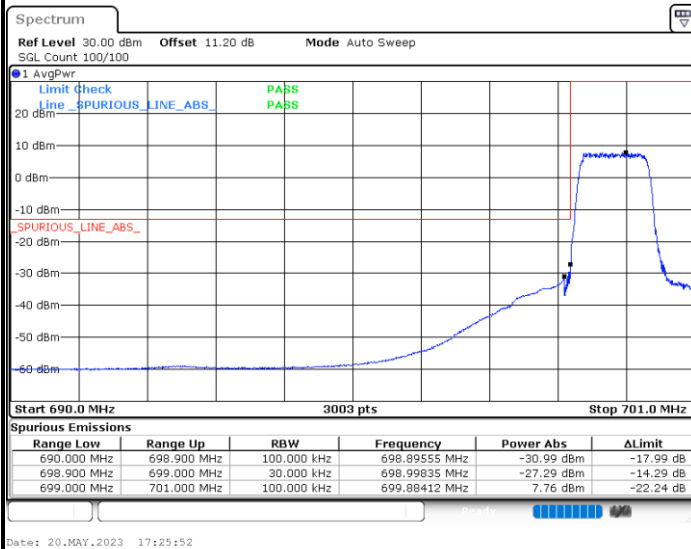
Lowest Band Edge / 1 RB



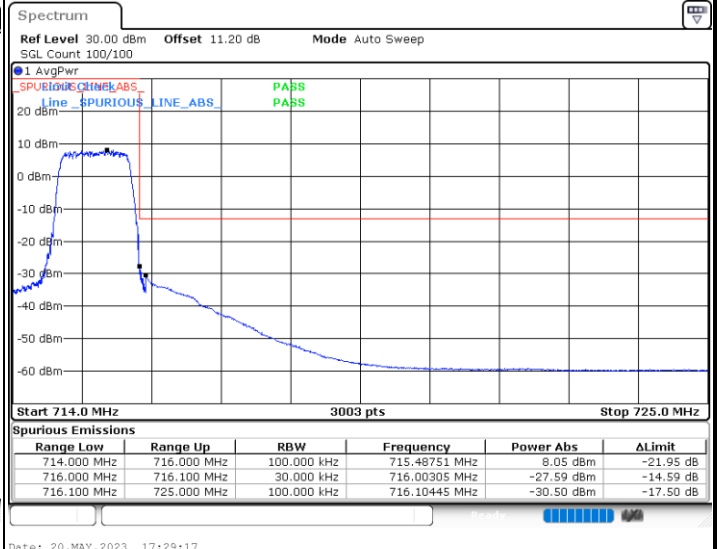
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



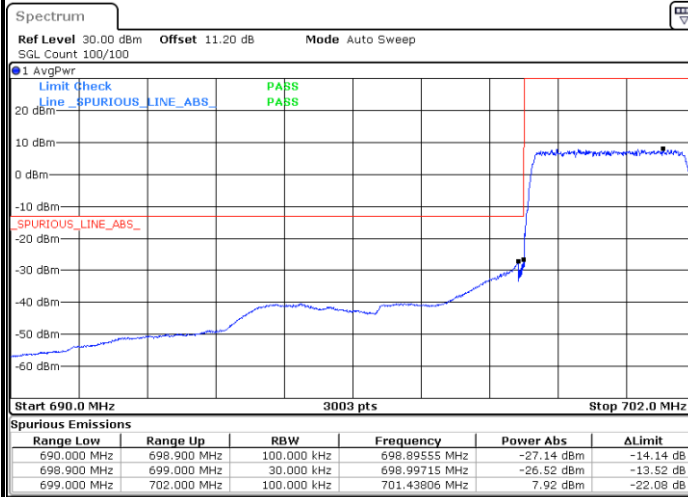
Highest Band Edge / Full RB



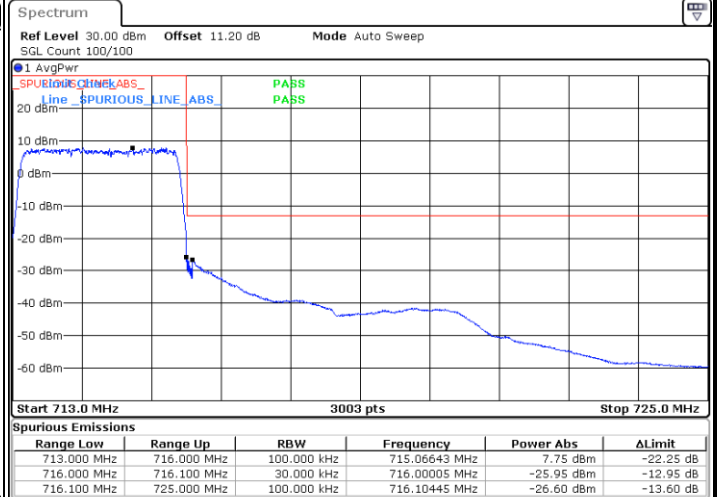


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

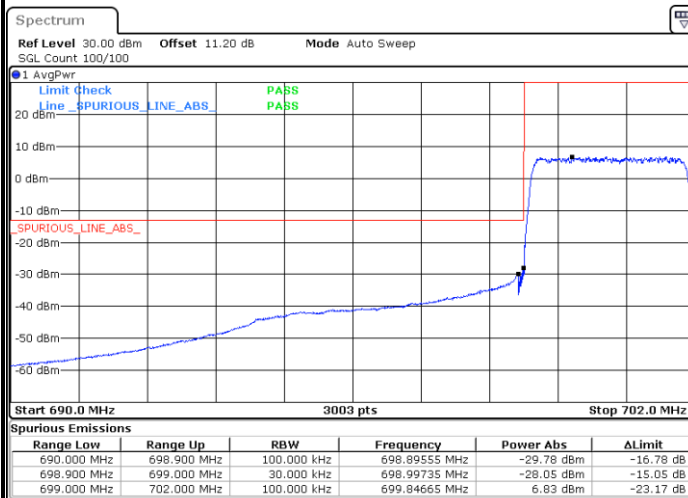


Highest Band Edge / Full RB

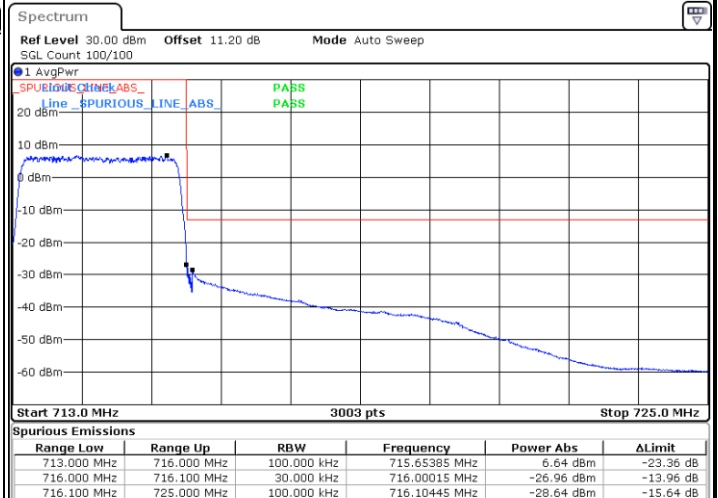


LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB



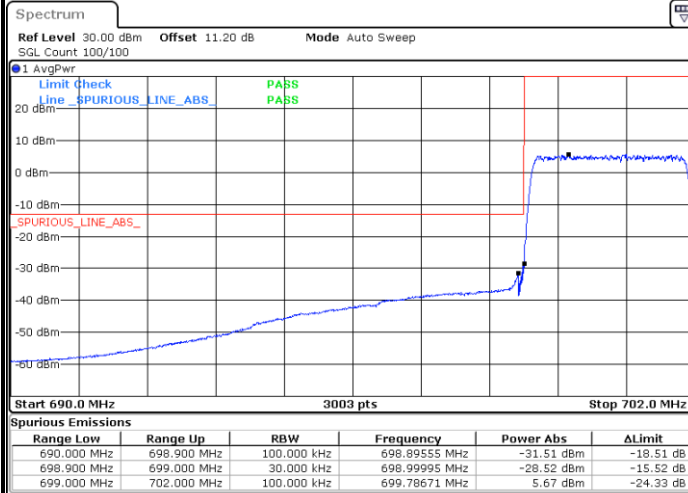
Highest Band Edge / Full RB



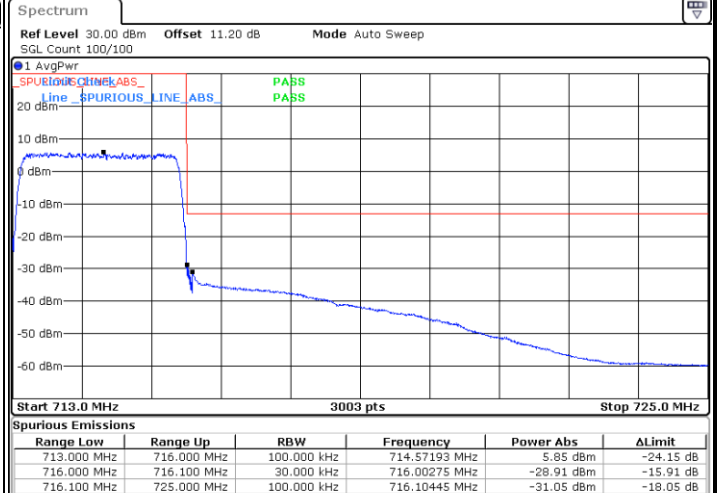


LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / Full RB

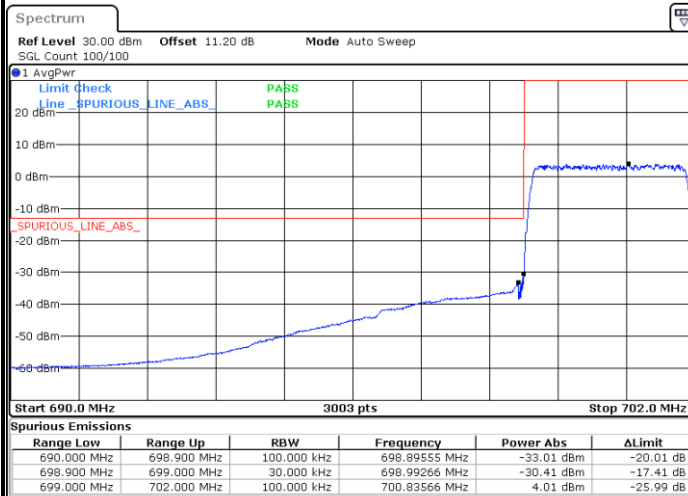


Highest Band Edge / Full RB

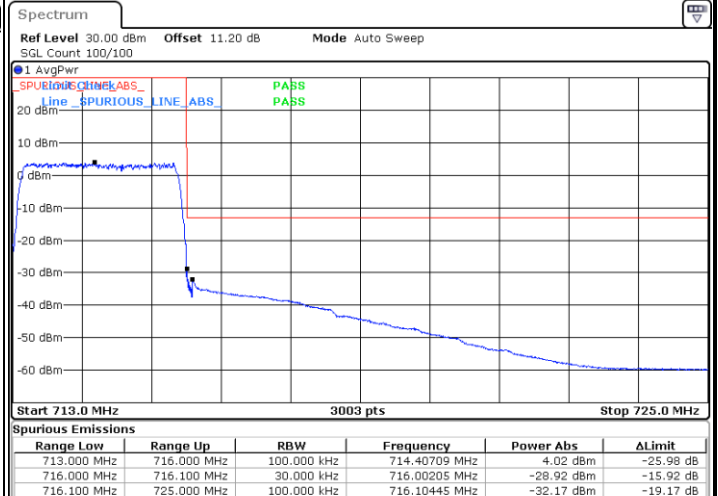


LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / Full RB



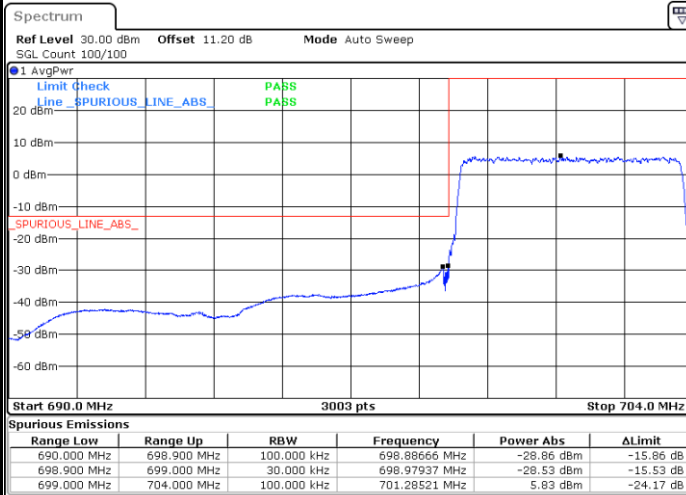
Highest Band Edge / Full RB



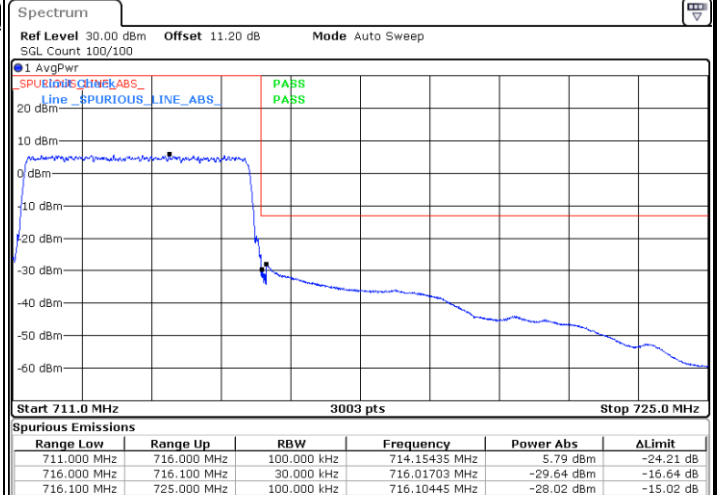


LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB

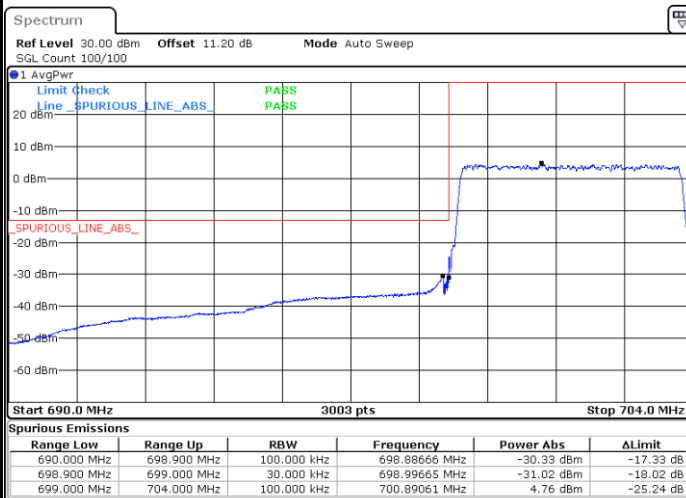


Highest Band Edge / Full RB

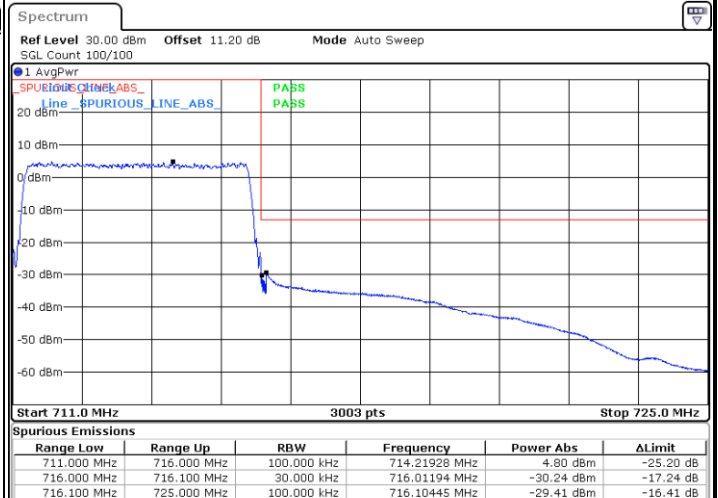


LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



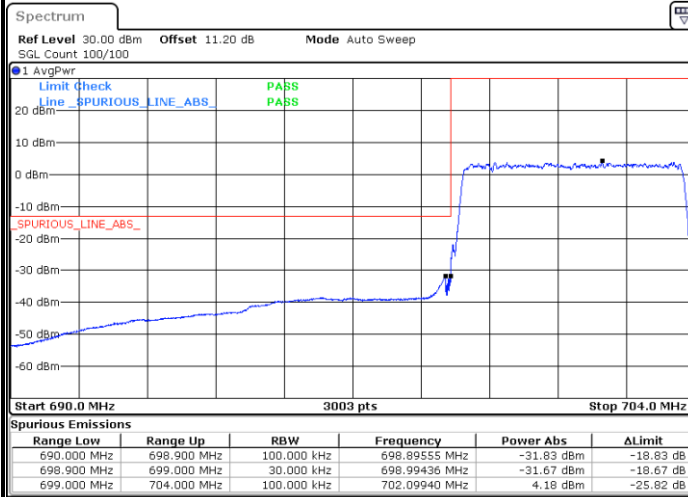
Highest Band Edge / Full RB



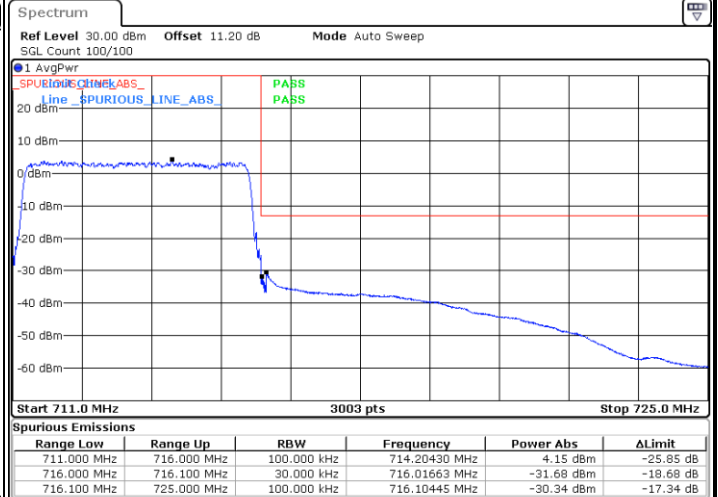


LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB

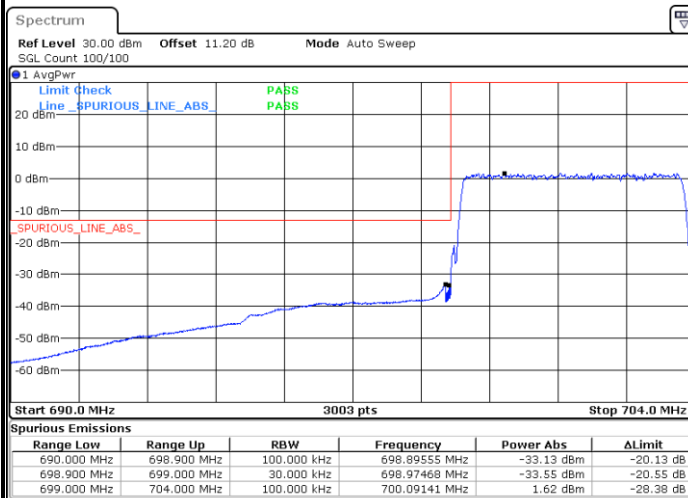


Highest Band Edge / Full RB

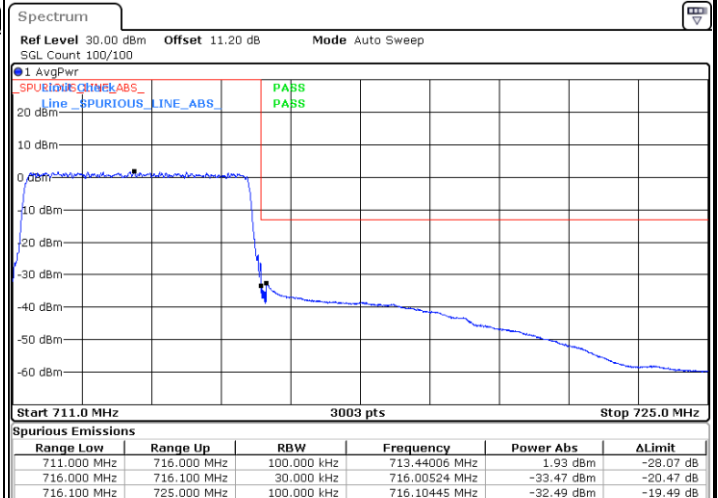


LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / Full RB



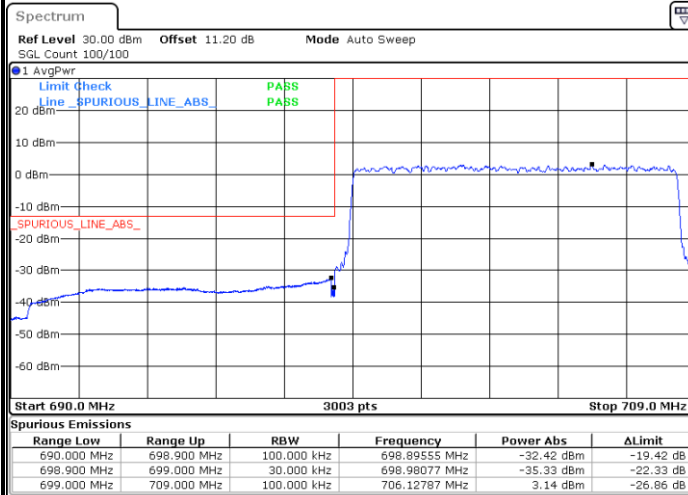
Highest Band Edge / Full RB



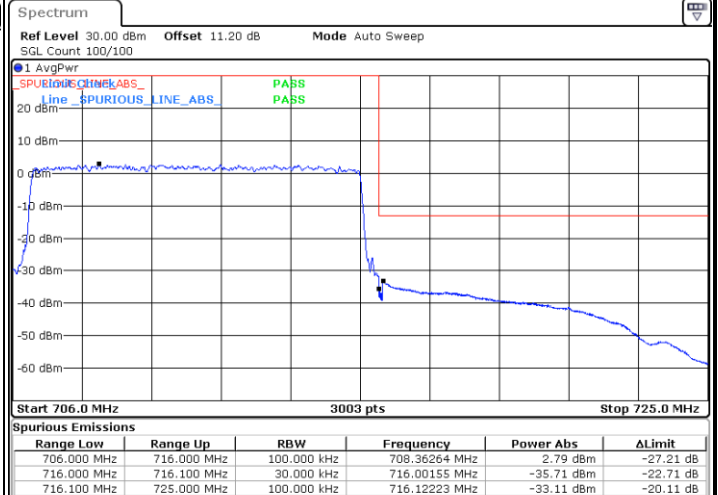


LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB

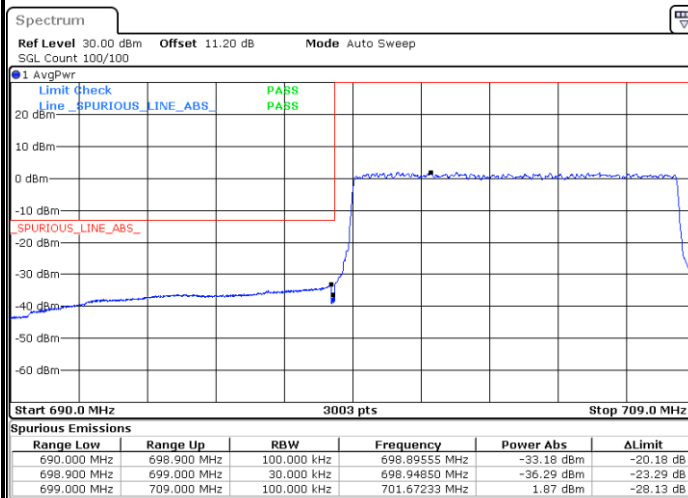


Highest Band Edge / Full RB

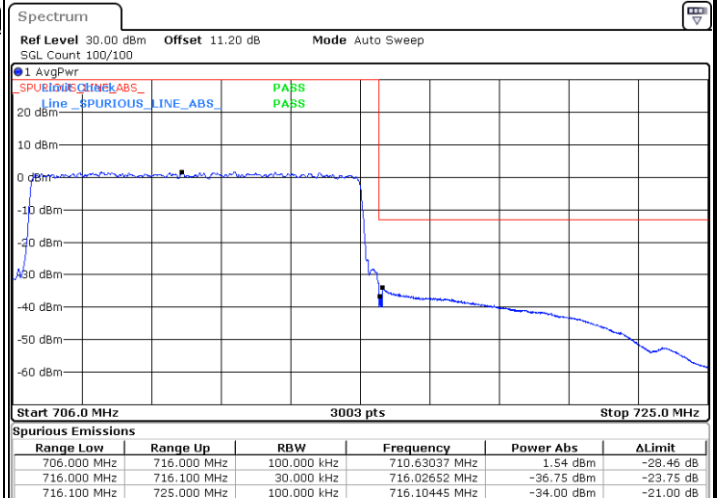


LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



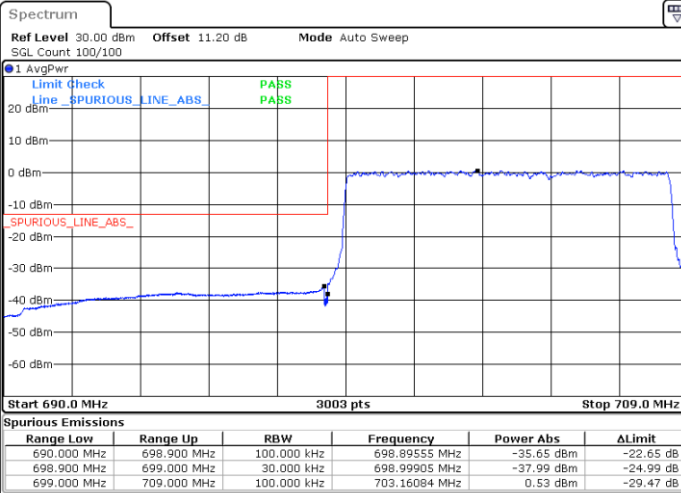
Highest Band Edge / Full RB



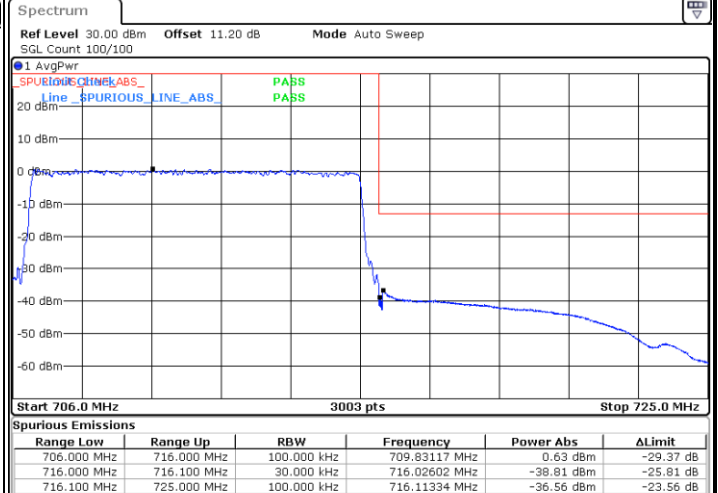


LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB

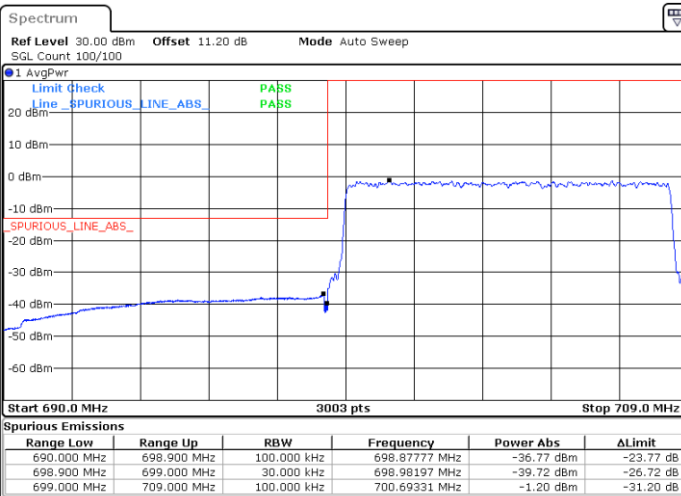


Highest Band Edge / Full RB

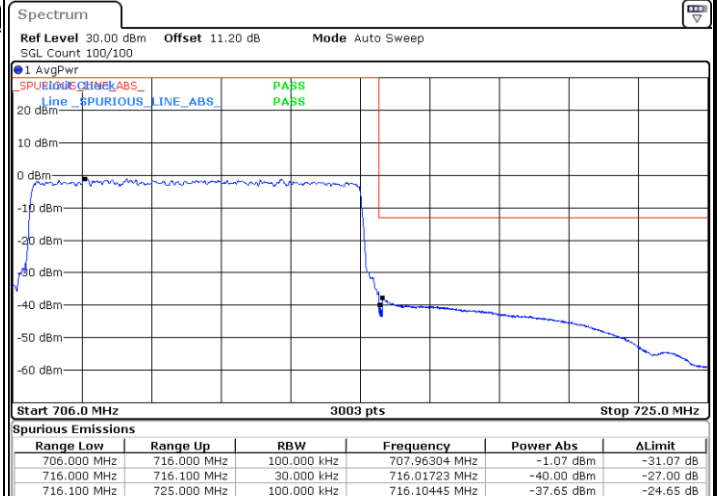


LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

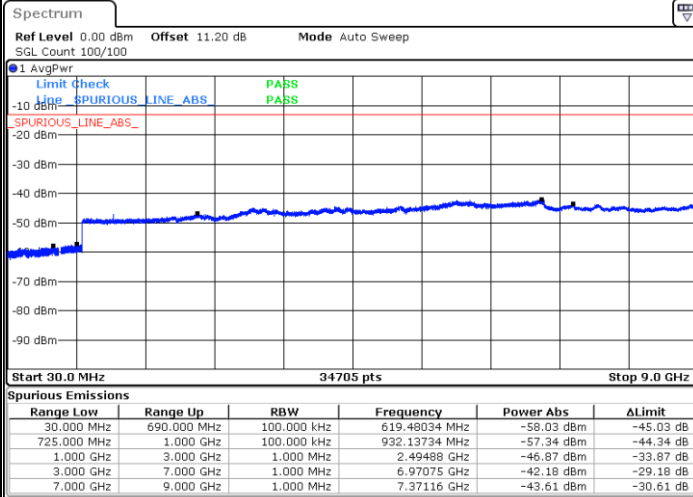




Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



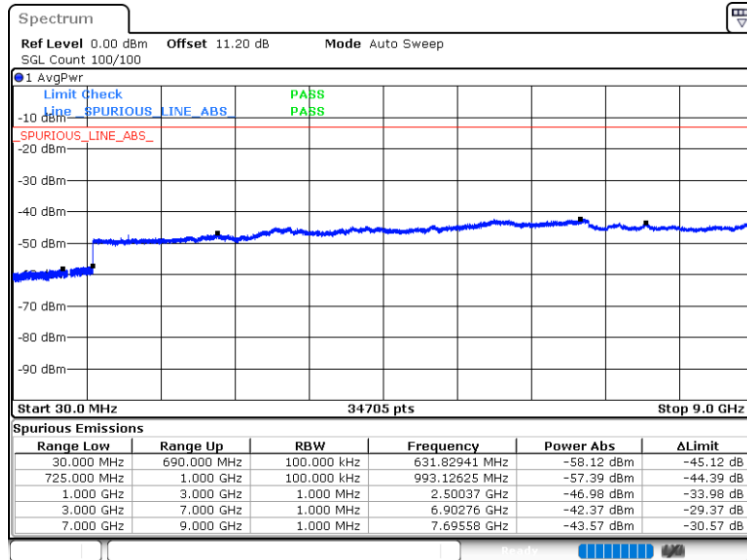
Date: 20.MAY.2023 16:35:58

Middle Channel / QPSK



Date: 20.MAY.2023 16:38:57

Highest Channel / QPSK

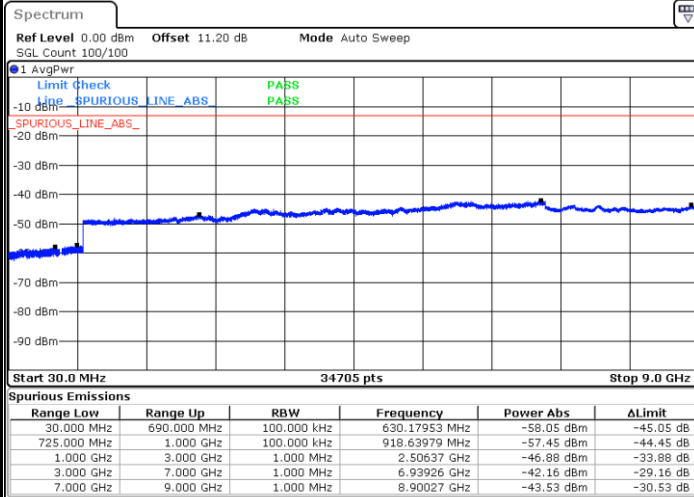


Date: 20.MAY.2023 16:45:34



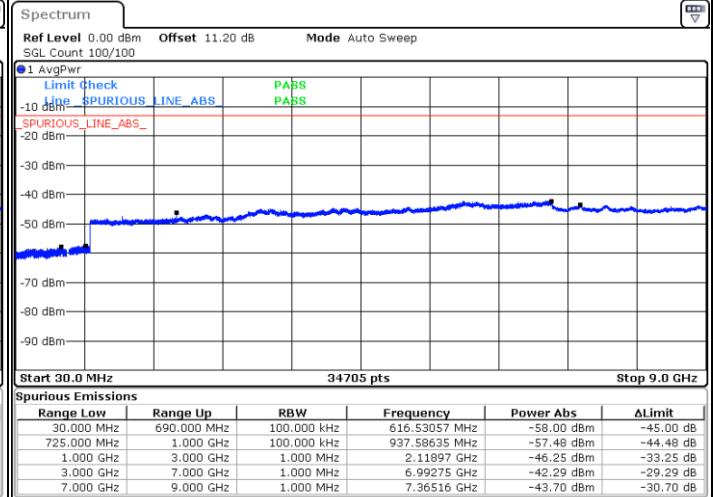
LTE Band 12 / 3MHz

Lowest Channel / QPSK



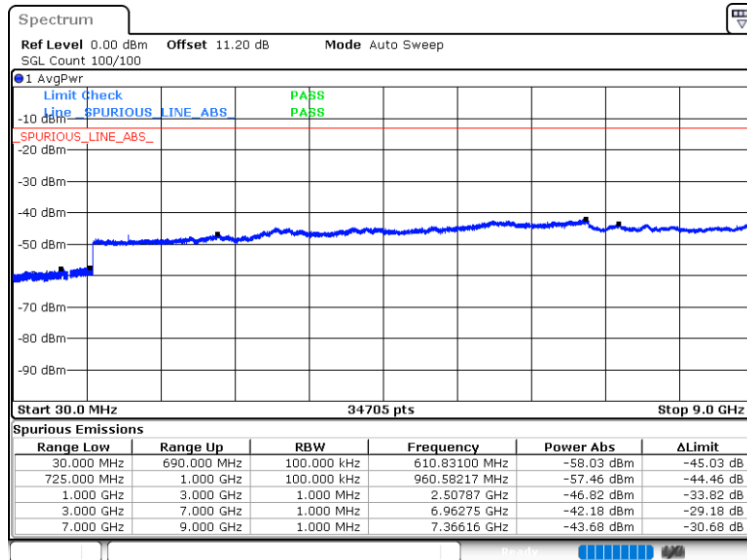
Date: 20.MAY.2023 17:42:57

Middle Channel / QPSK



Date: 20.MAY.2023 17:44:15

Highest Channel / QPSK



Date: 20.MAY.2023 17:45:34