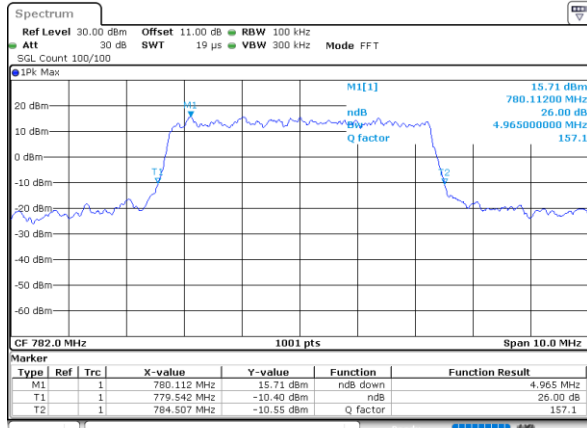




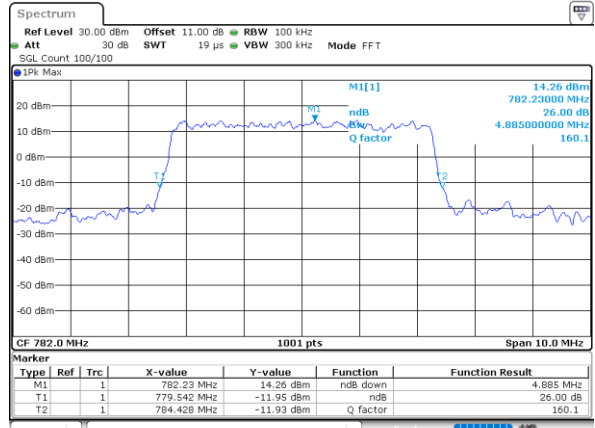
LTE Band 13

Middle Channel / 5MHz / QPSK



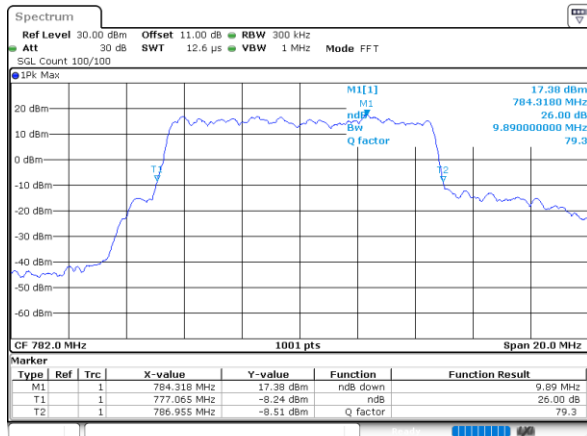
Date: 28.NOV.2024 17:03:13

Middle Channel / 5MHz / 16QAM



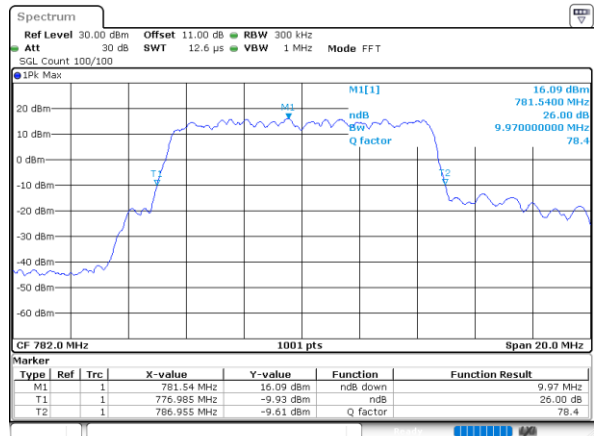
Date: 28.NOV.2024 17:03:54

Middle Channel / 10MHz / QPSK



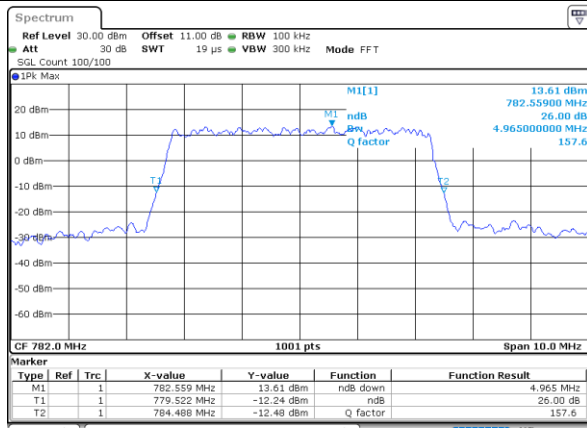
Date: 28.NOV.2024 17:04:39

Middle Channel / 10MHz / 16QAM



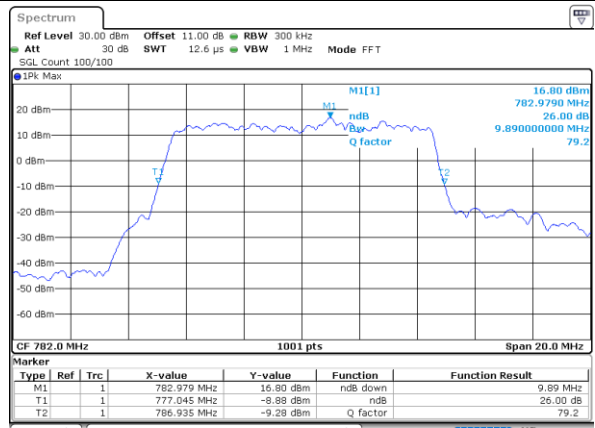
Date: 28.NOV.2024 17:05:02

Middle Channel / 5MHz / 64QAM



Date: 28.NOV.2024 17:04:16

Middle Channel / 10MHz / 64QAM



Date: 28.NOV.2024 17:05:24

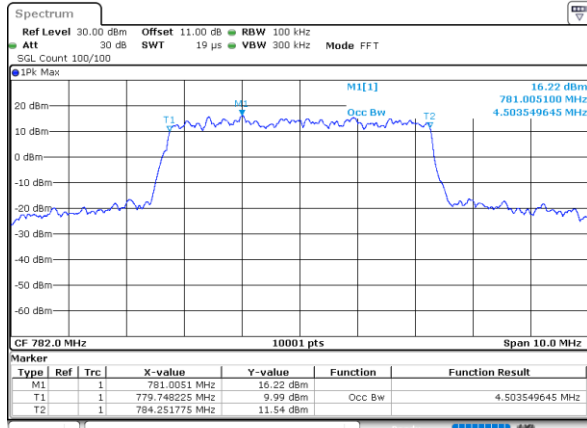
**Occupied Bandwidth**

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
Middle CH	-	-	-	-	4.50	4.49	8.98	9.03	-	-	-	-
Mode	LTE Band 13 : 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	-	-	-	-	4.49	-	9.01	-	-	-	-	-



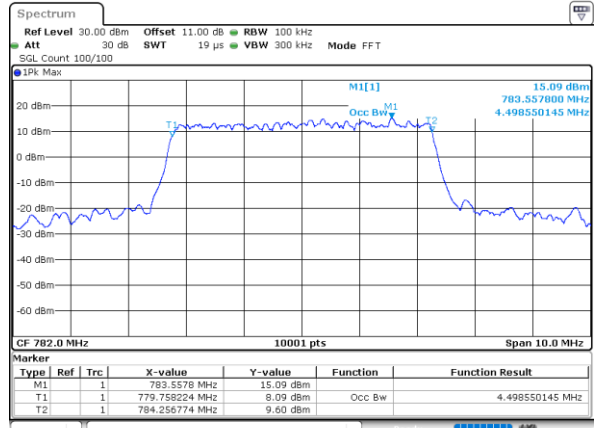
LTE Band 13

Middle Channel / 5MHz / QPSK



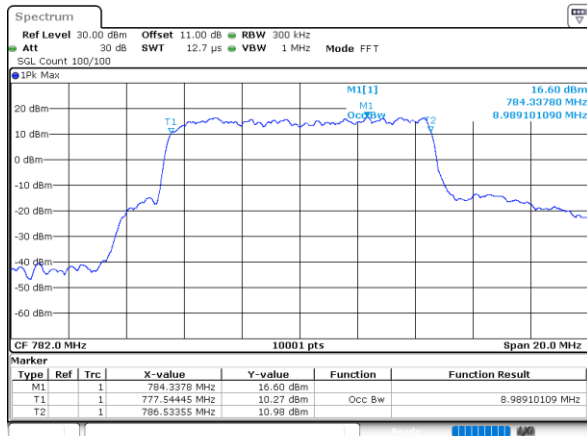
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Middle Channel / 5MHz / 16QAM



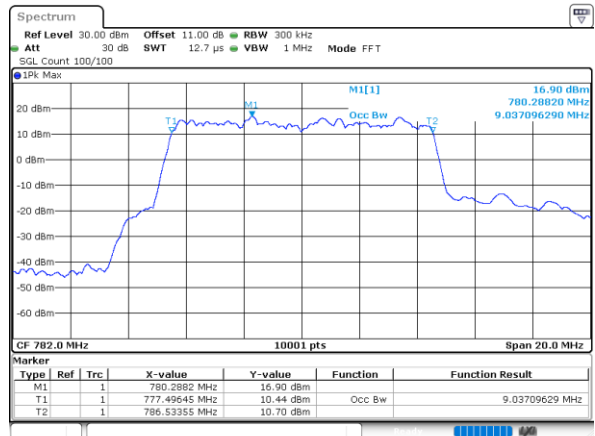
Date: 28.NOV.2024 17:01:38

Middle Channel / 10MHz / QPSK



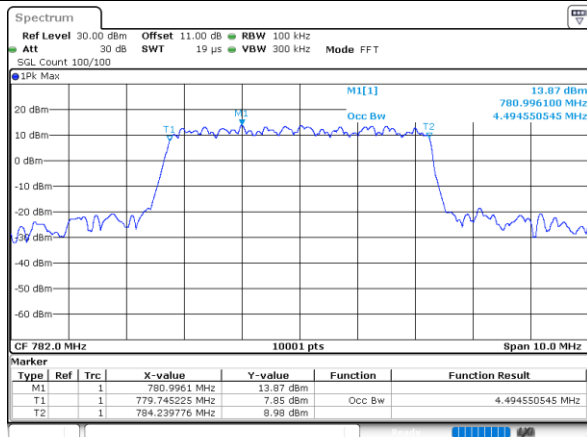
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Middle Channel / 10MHz / 16QAM



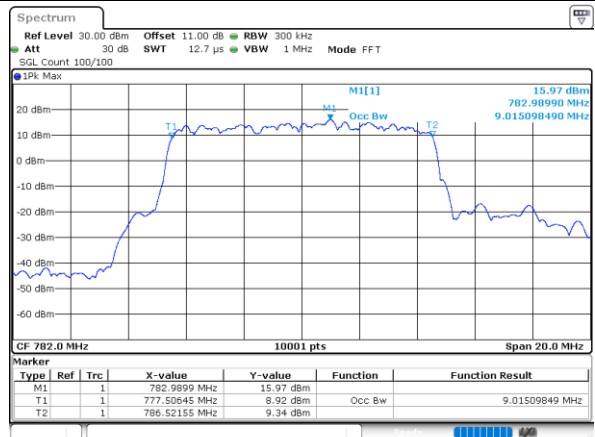
Date: 28.NOV.2024 17:02:46

Middle Channel / 5MHz / 64QAM

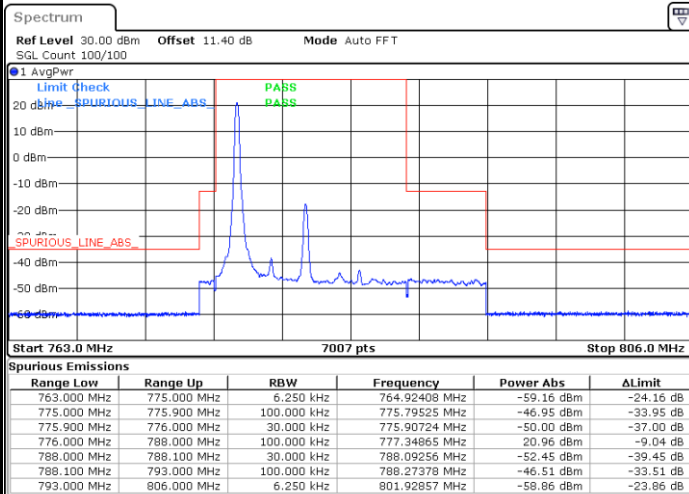
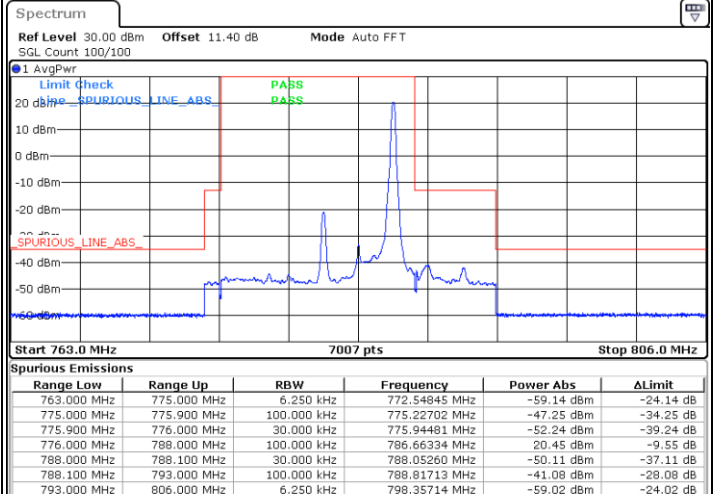
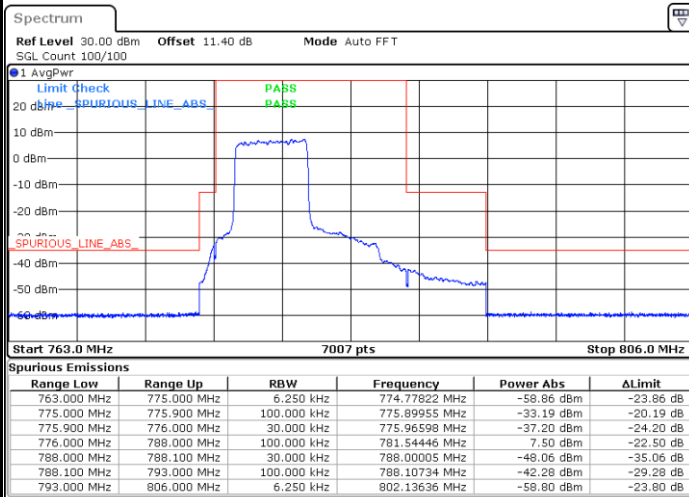
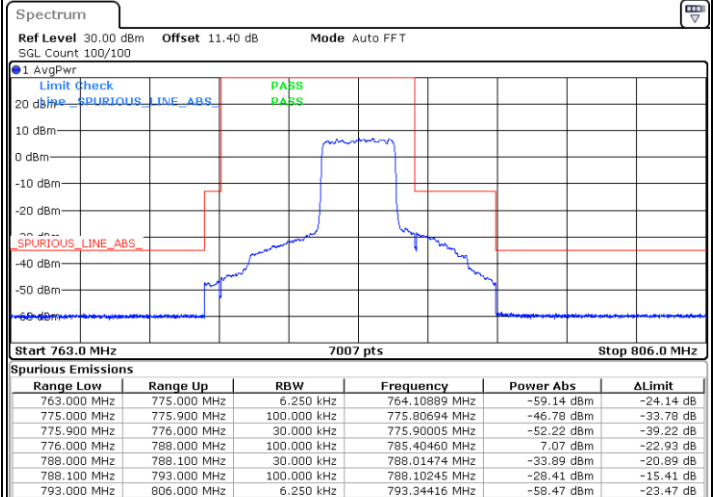


Date: 28.NOV.2024 17:02:00

Middle Channel / 10MHz / 64QAM



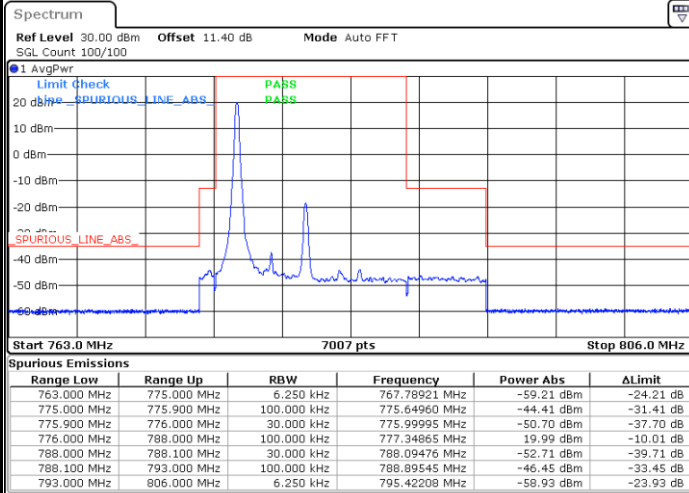
Date: 28.NOV.2024 17:03:08

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



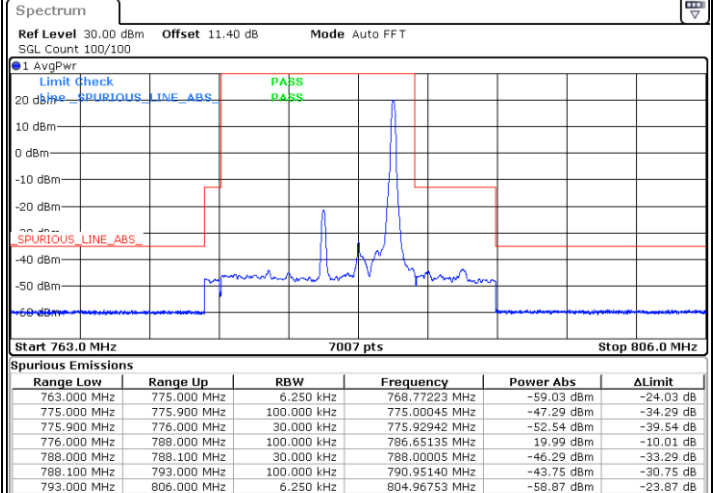
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



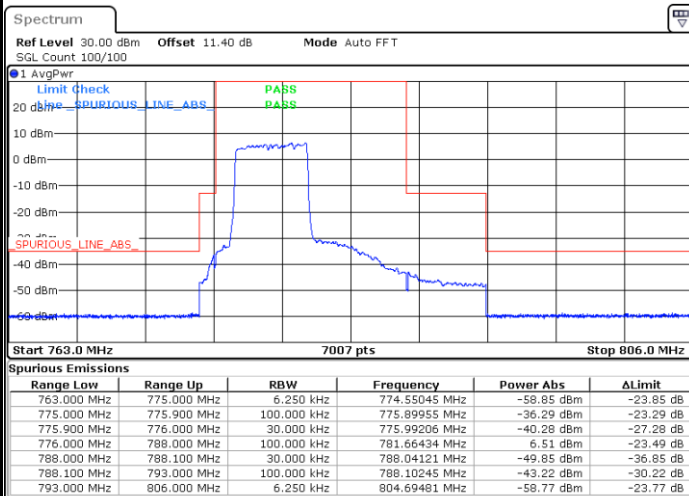
Date: 28.FEB.2025 14:16:02

Highest Band Edge / 1 RB



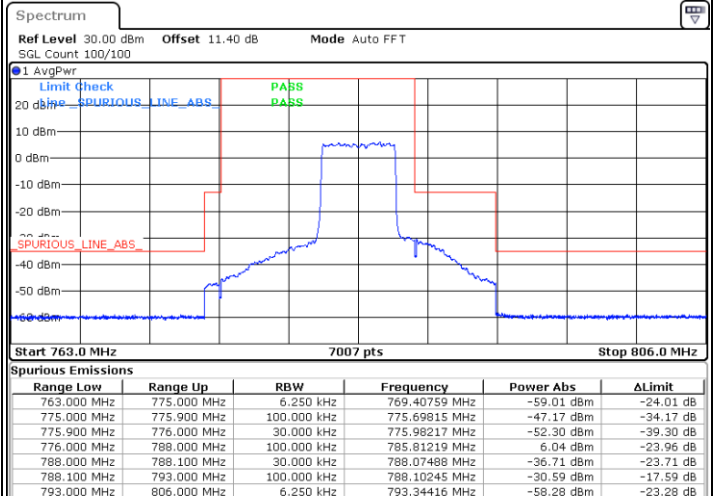
Date: 28.FEB.2025 14:26:42

Lowest Band Edge / Full RB



Date: 28.FEB.2025 14:10:34

Highest Band Edge / Full RB

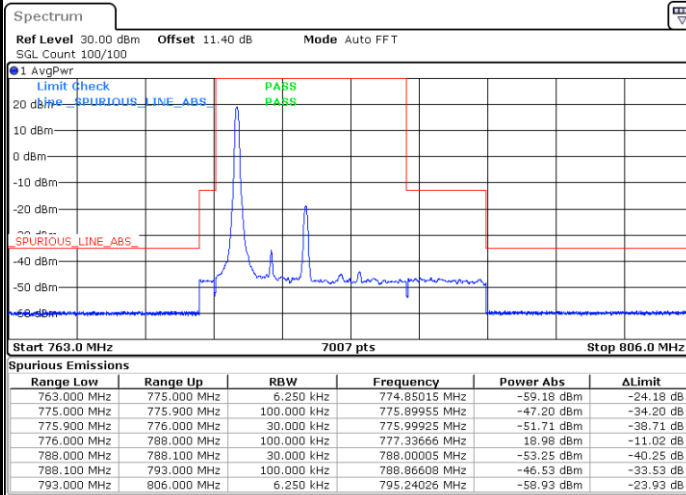


Date: 28.FEB.2025 14:21:26



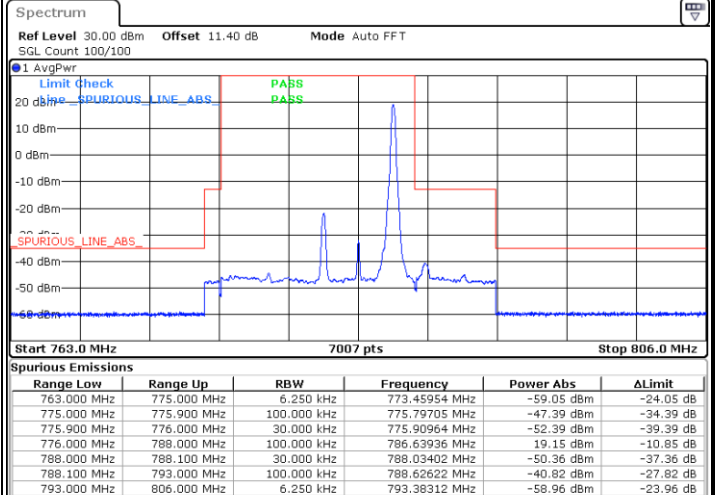
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



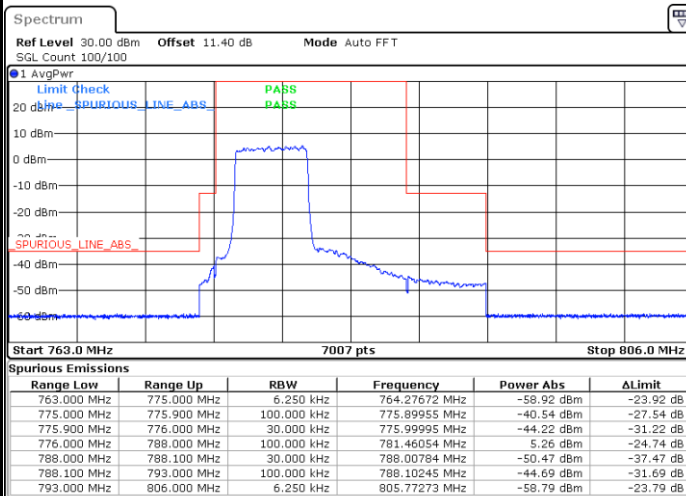
Date: 28.FEB.2025 14:17:46

Highest Band Edge / 1 RB



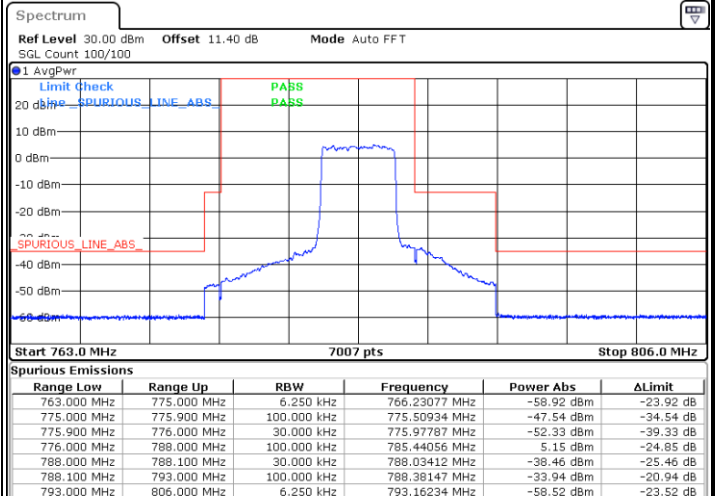
Date: 28.FEB.2025 14:28:20

Lowest Band Edge / Full RB



Date: 28.FEB.2025 14:12:16

Highest Band Edge / Full RB



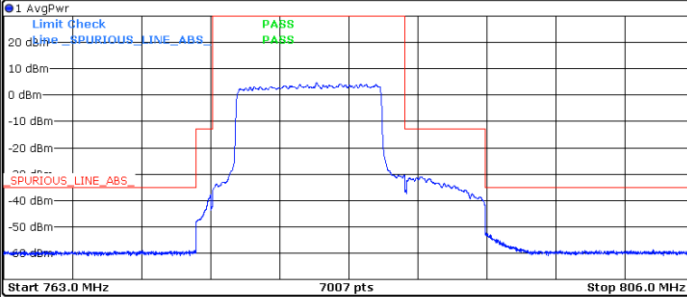
Date: 28.FEB.2025 14:23:20



LTE Band 13 / 10MHz / QPSK

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.40 dB Mode Auto FFT
SGL Count 100/100

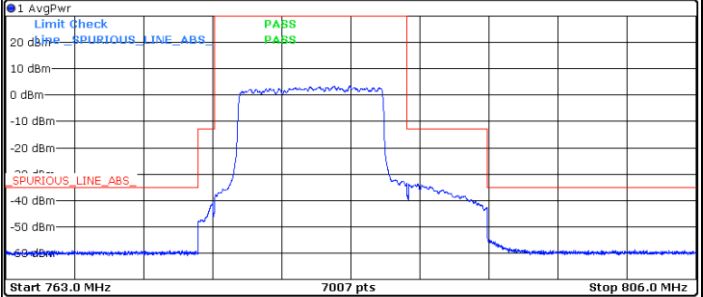
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.89810 MHz	-58.93 dBm	-23.93 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-37.91 dBm	-24.91 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99955 MHz	-41.68 dBm	-28.68 dB
776.000 MHz	788.000 MHz	100.000 kHz	782.49151 MHz	-4.60 dBm	-25.40 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06089 MHz	-36.05 dBm	-23.05 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.97378 MHz	-31.07 dBm	-18.07 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-52.52 dBm	-17.52 dB

Date: 28.FEB.2025 14:29:57

LTE Band 13 / 10MHz / 16QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.40 dB Mode Auto FFT
SGL Count 100/100

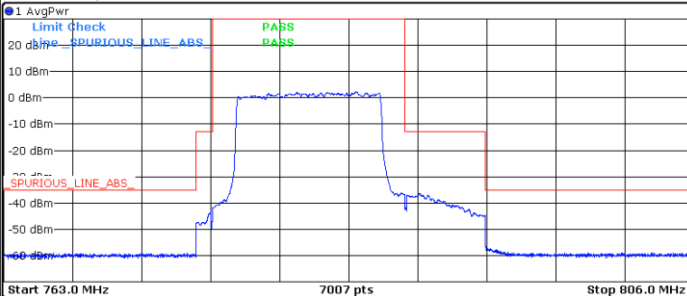
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.02697 MHz	-59.07 dBm	-24.07 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-40.84 dBm	-27.84 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98546 MHz	-44.63 dBm	-31.63 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.43357 MHz	-3.33 dBm	-26.67 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02143 MHz	-38.25 dBm	-25.25 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.67028 MHz	-33.92 dBm	-20.92 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-54.32 dBm	-19.32 dB

Date: 28.FEB.2025 14:31:38

LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.40 dB Mode Auto FFT
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.43057 MHz	-59.17 dBm	-24.17 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-43.50 dBm	-30.50 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99785 MHz	-47.08 dBm	-34.08 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.94905 MHz	2.29 dBm	-27.71 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04750 MHz	-41.84 dBm	-28.84 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.91014 MHz	-36.39 dBm	-23.39 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-56.70 dBm	-21.70 dB

Date: 28.FEB.2025 14:33:32

LTE Band 13 / 10MHz / 256QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.40 dB Mode Auto FFT
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.02697 MHz	-59.07 dBm	-24.07 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-40.84 dBm	-27.84 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98546 MHz	-44.63 dBm	-31.63 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.43357 MHz	-3.33 dBm	-26.67 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02143 MHz	-38.25 dBm	-25.25 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.67028 MHz	-33.92 dBm	-20.92 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-54.32 dBm	-19.32 dB

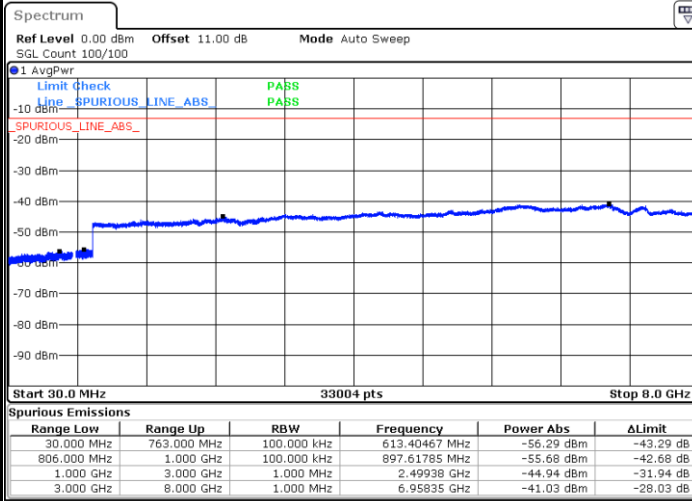
Date: 28.FEB.2025 14:33:32



Conducted Spurious Emission

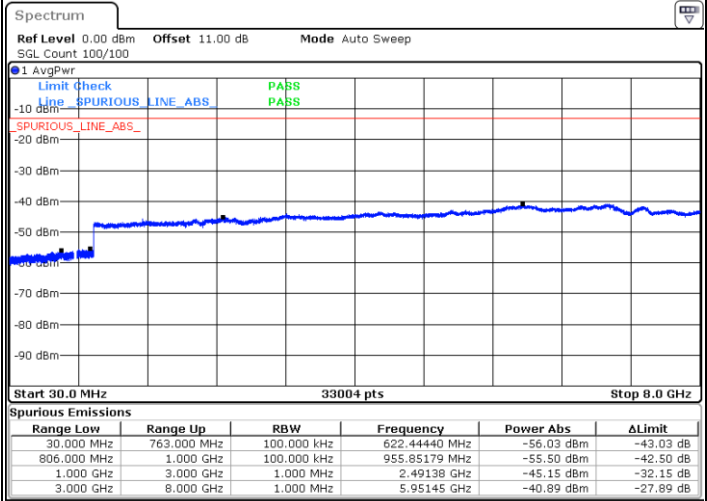
LTE Band 13 / 5MHz

Lowest Channel / QPSK



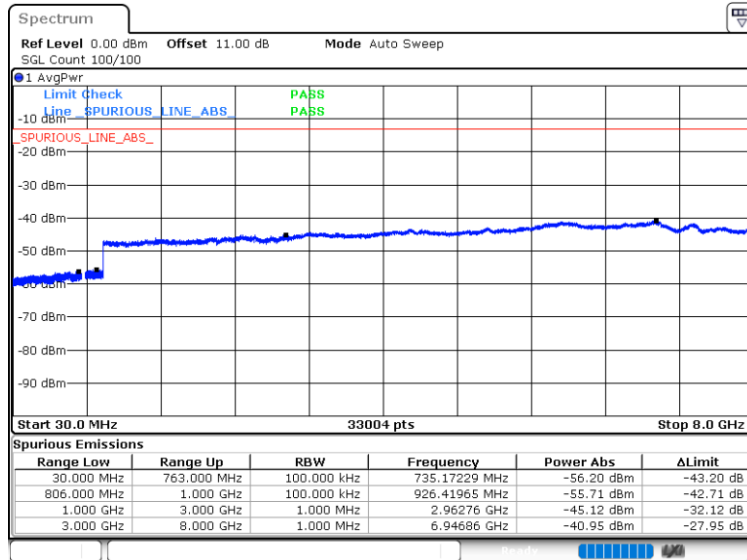
Date: 28.NOV.2024 17:07:46

Middle Channel / QPSK



Date: 28.NOV.2024 17:08:58

Highest Channel / QPSK

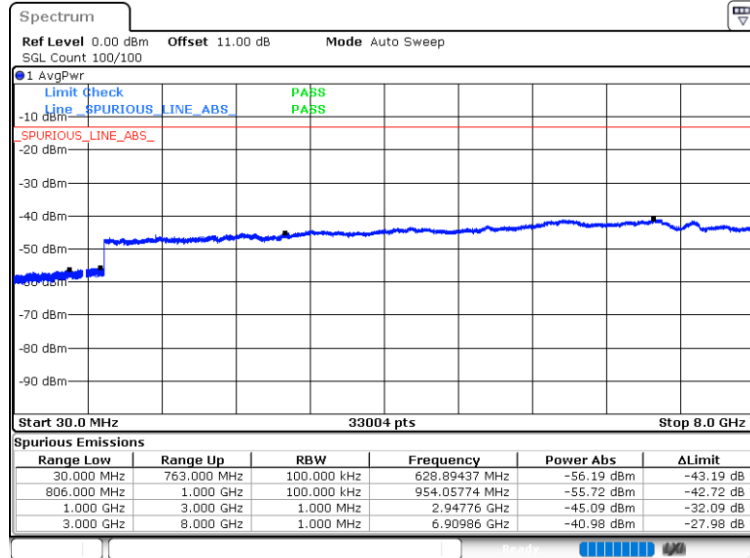


Date: 28.NOV.2024 17:10:11



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 28.NOV.2024 17:11:24

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0205	PASS
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0022	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0201	

Note:

1. Normal Voltage =3.88 V. ; Minimum Voltage =3.6 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

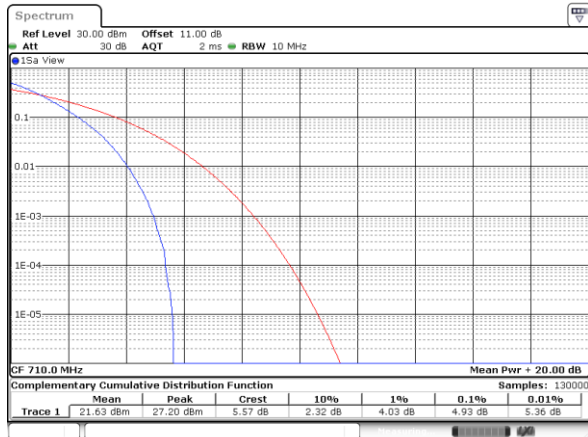
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.86	6.14	-	PASS



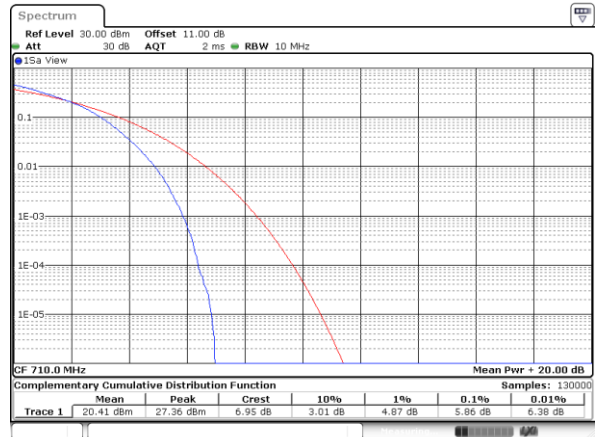
LTE Band 17 / 10MHz / QPSK

Middle Channel / Full RB



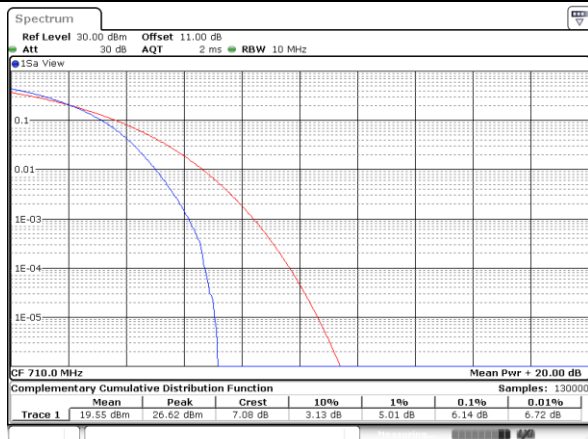
LTE Band 17 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 17 / 10MHz / 256QAM

Middle Channel / Full RB

-

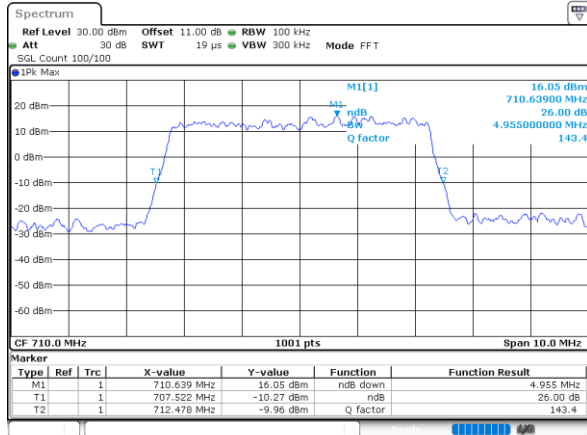
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.95	4.90	9.71	9.91	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.90	-	9.71	-	-	-	-	-



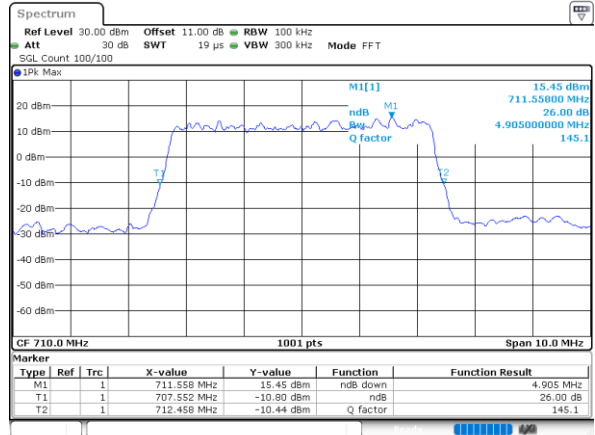
LTE Band 17

Middle Channel / 5MHz / QPSK



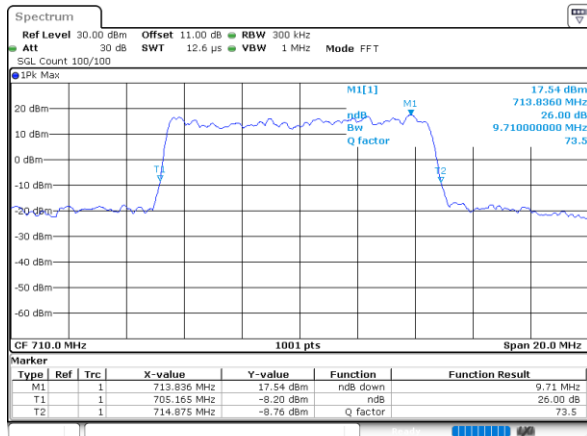
Date: 28.NOV.2024 18:04:39

Middle Channel / 5MHz / 16QAM



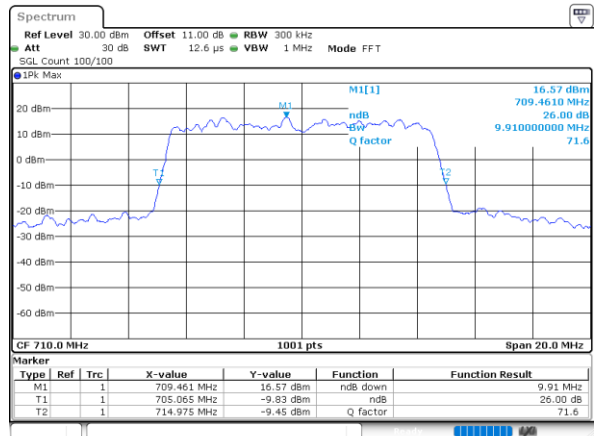
Date: 28.NOV.2024 18:05:01

Middle Channel / 10MHz / QPSK



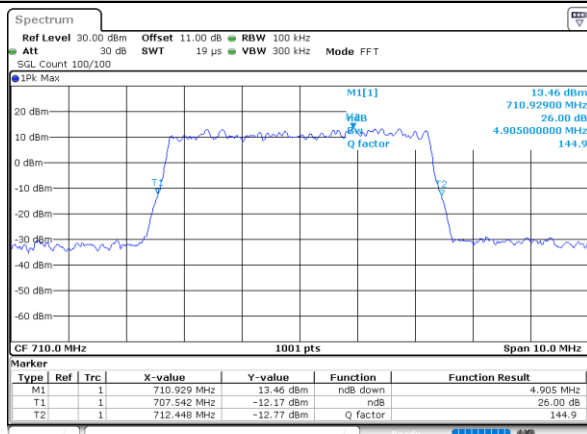
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Middle Channel / 10MHz / 16QAM



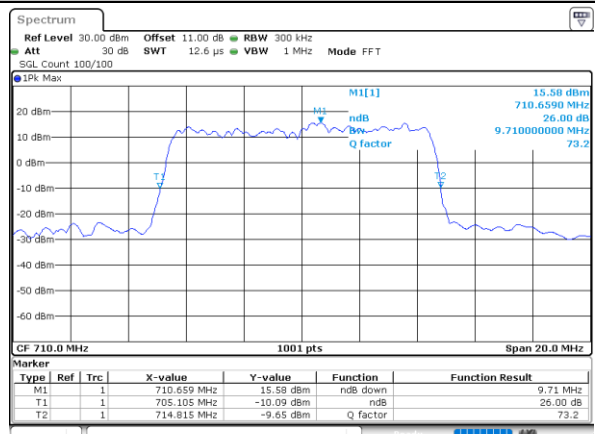
Date: 28.NOV.2024 18:06:09

Middle Channel / 5MHz / 64QAM



Date: 28.NOV.2024 18:05:24

Middle Channel / 10MHz / 64QAM



Date: 28.NOV.2024 18:06:32

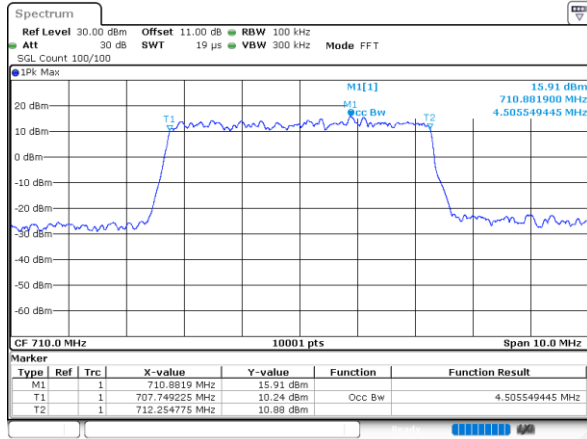
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.50	4.48	9.02	9.04	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.48	-	9.05	-	-	-	-	-



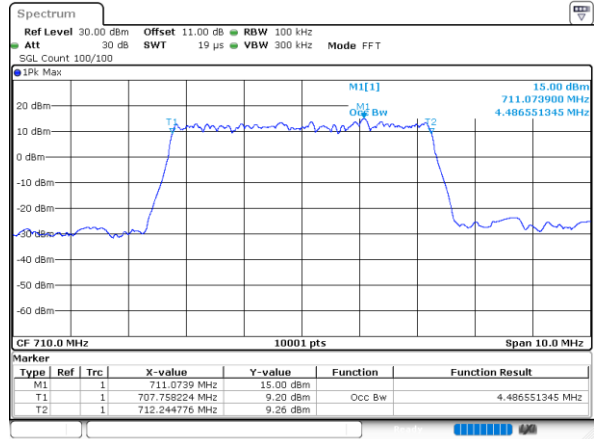
LTE Band 17

Middle Channel / 5MHz / QPSK



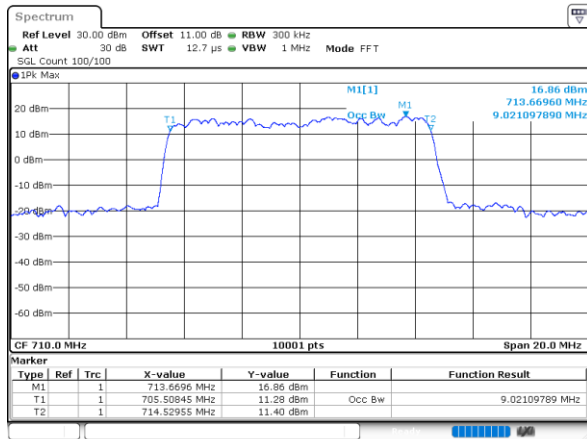
Date: 28.NOV.2024 18:02:22

Middle Channel / 5MHz / 16QAM



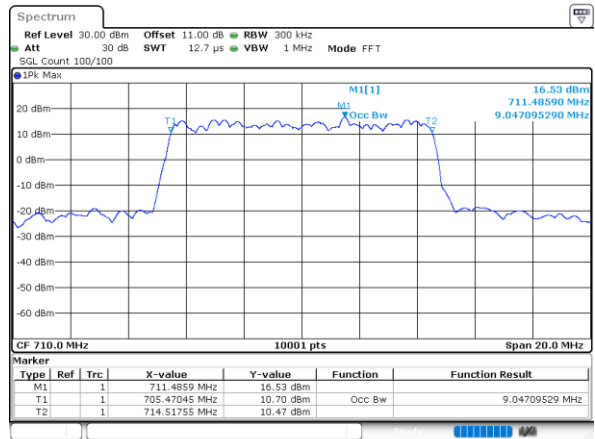
Date: 28.NOV.2024 18:02:45

Middle Channel / 10MHz / QPSK



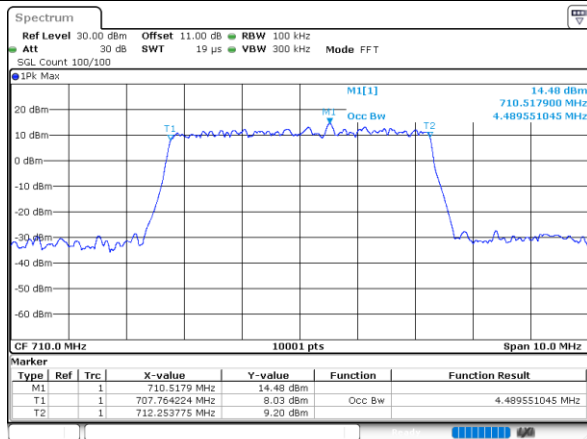
Date: 28.NOV.2024 18:03:31

Middle Channel / 10MHz / 16QAM



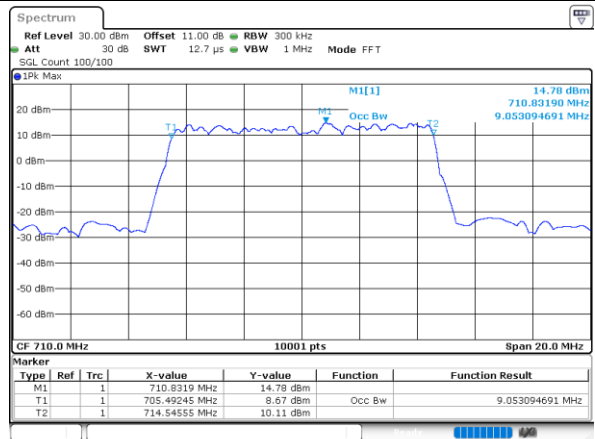
Date: 28.NOV.2024 18:03:53

Middle Channel / 5MHz / 64QAM

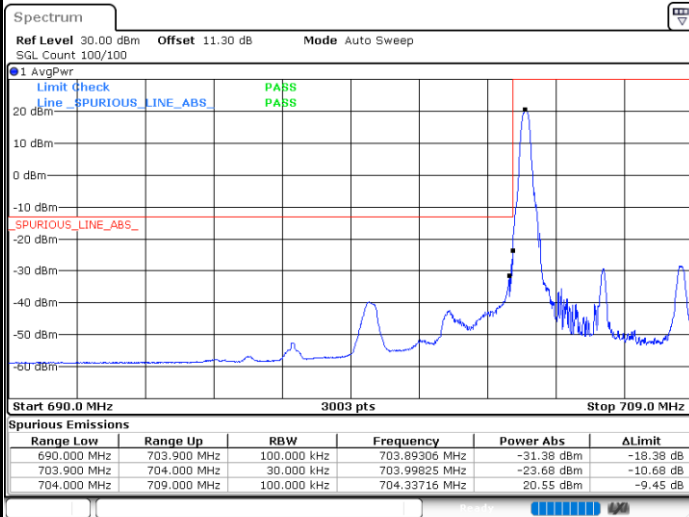
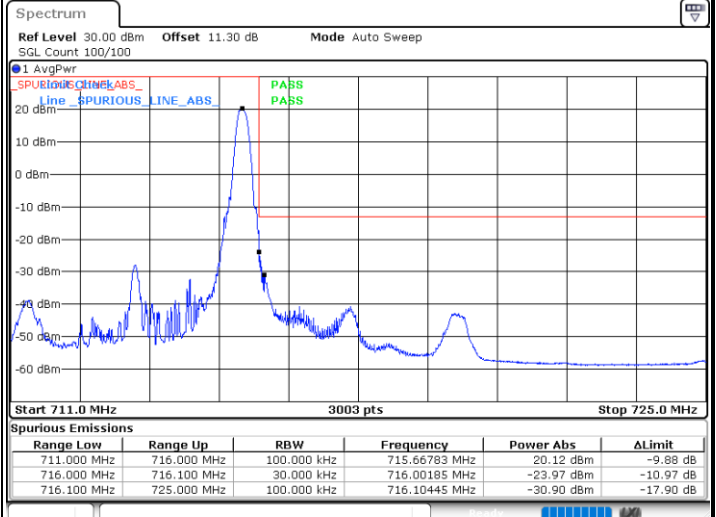
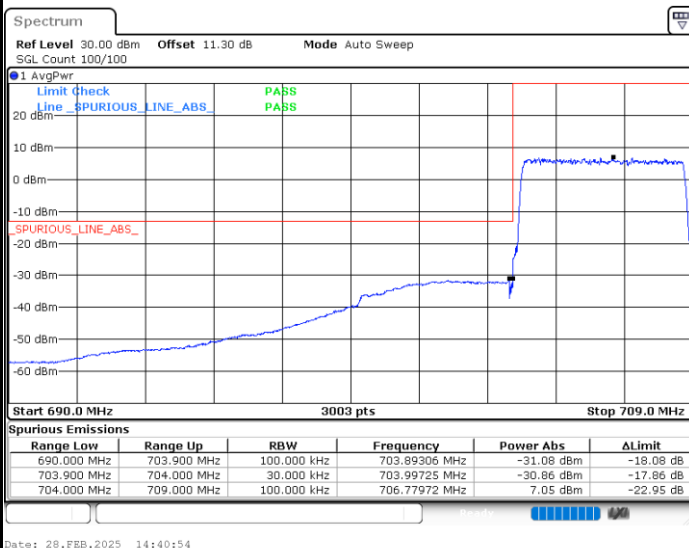
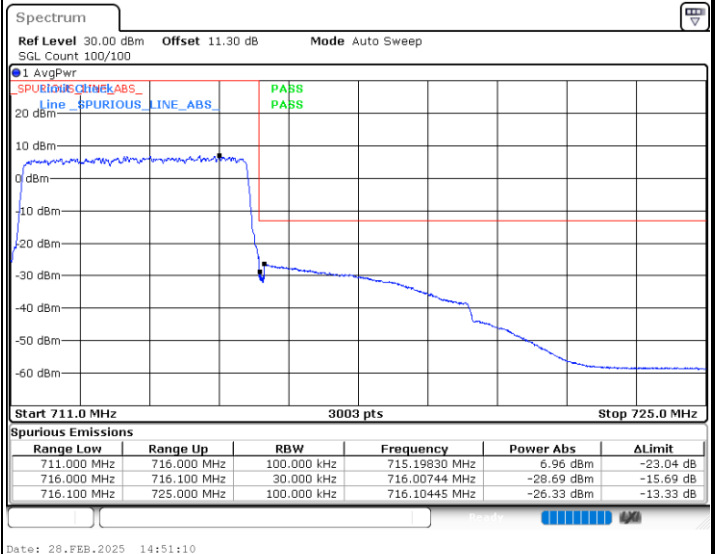


Date: 28.NOV.2024 18:03:08

Middle Channel / 10MHz / 64QAM



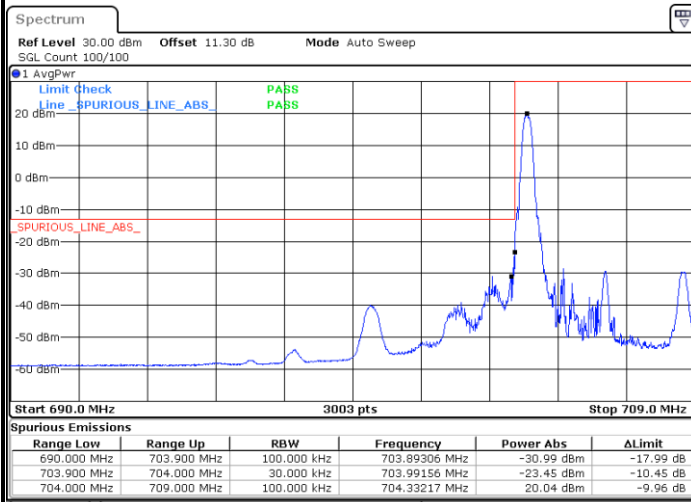
Date: 28.NOV.2024 18:04:16

**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

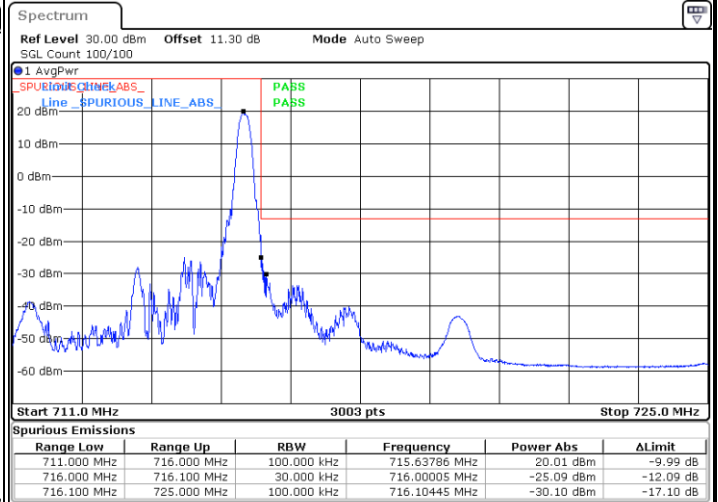


LTE Band 17 / 5MHz / 16QAM

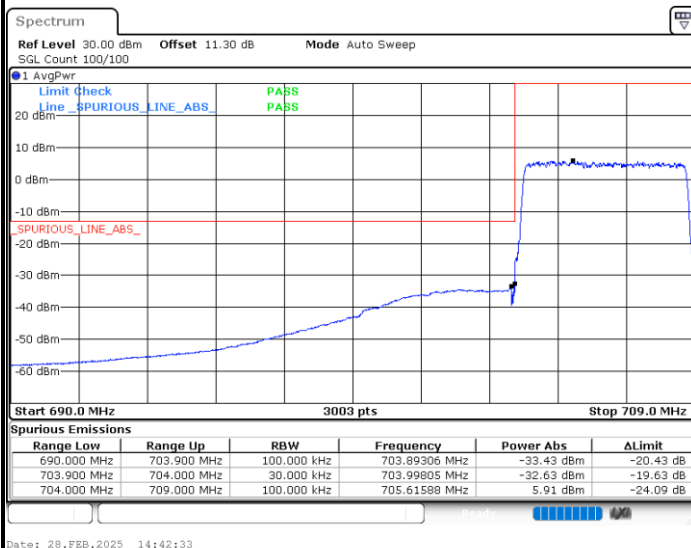
Lowest Band Edge / 1 RB



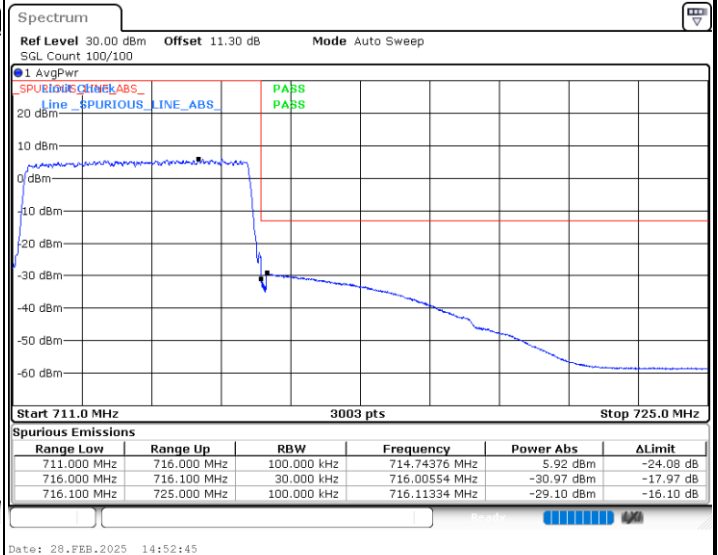
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



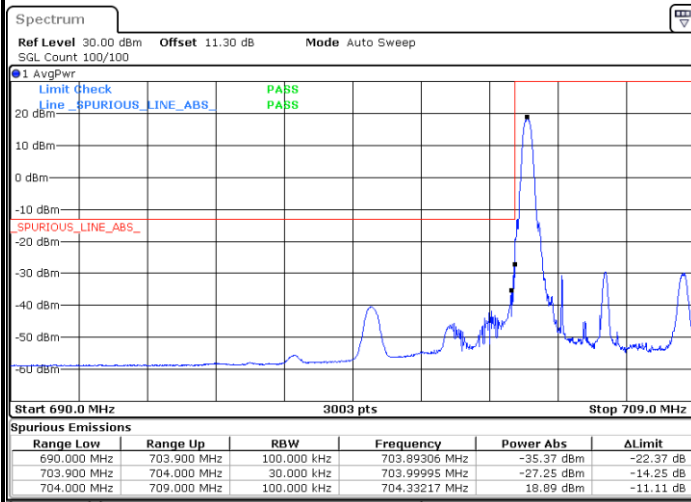
Highest Band Edge / Full RB



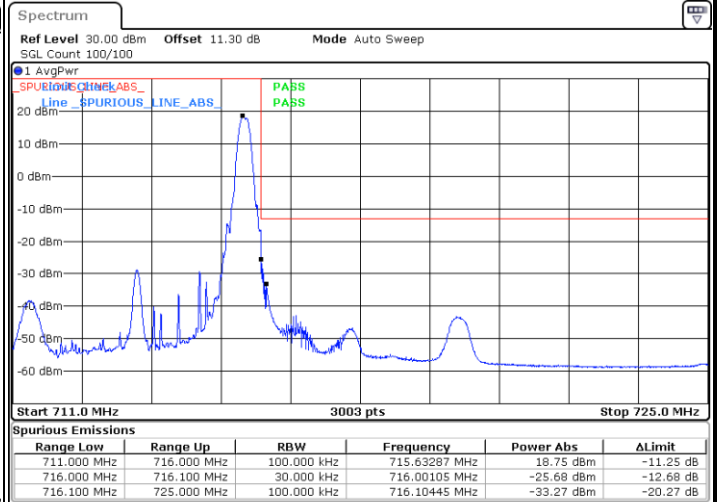


LTE Band 17 / 5MHz / 64QAM

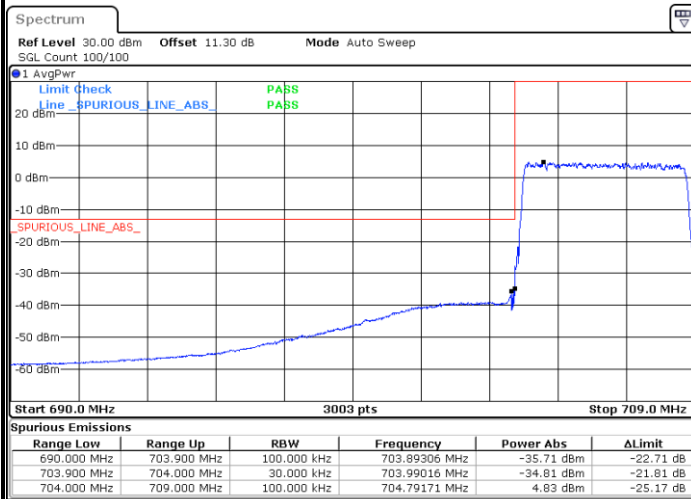
Lowest Band Edge / 1 RB



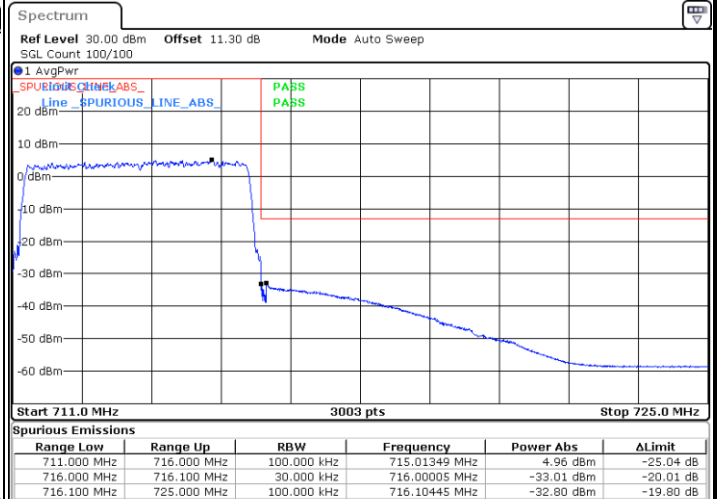
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



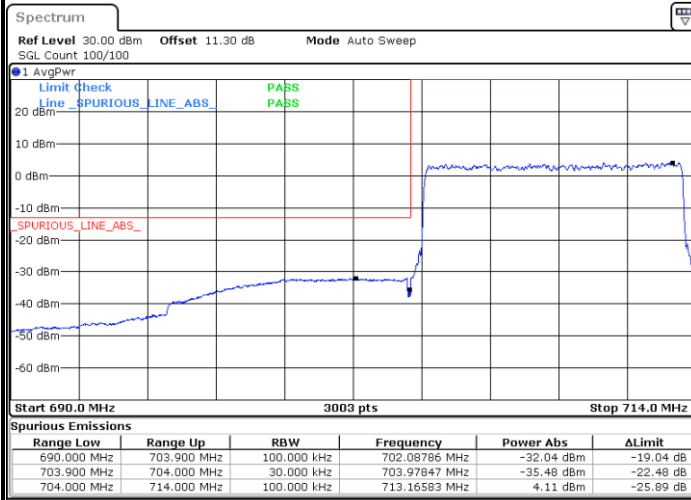
Highest Band Edge / Full RB



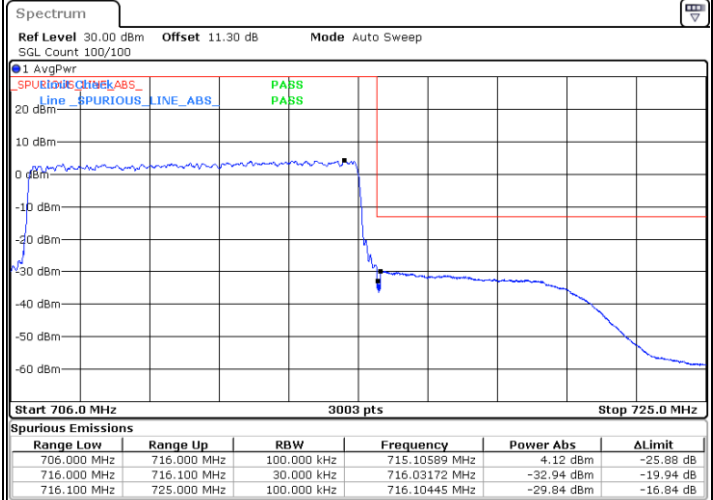


LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / Full RB

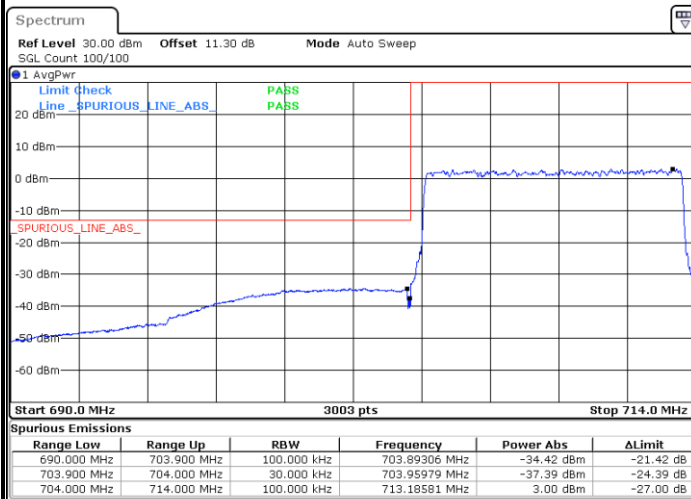


Highest Band Edge / Full RB

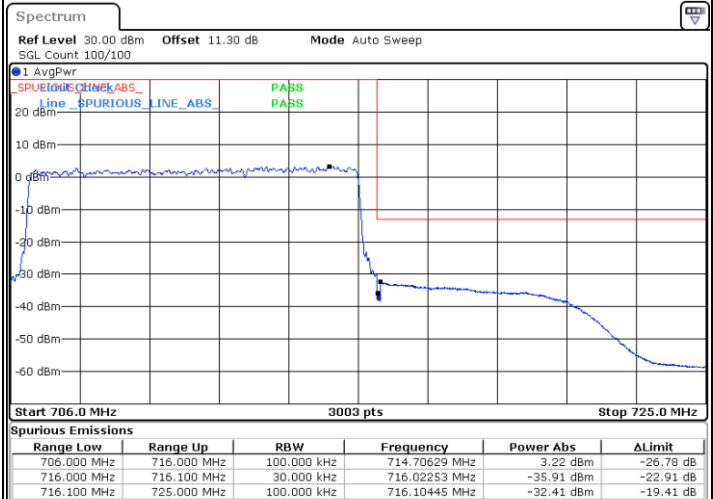


LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / Full RB



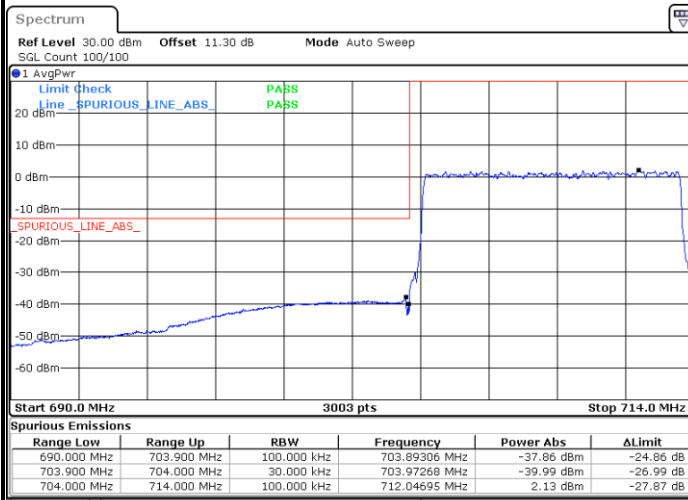
Highest Band Edge / Full RB



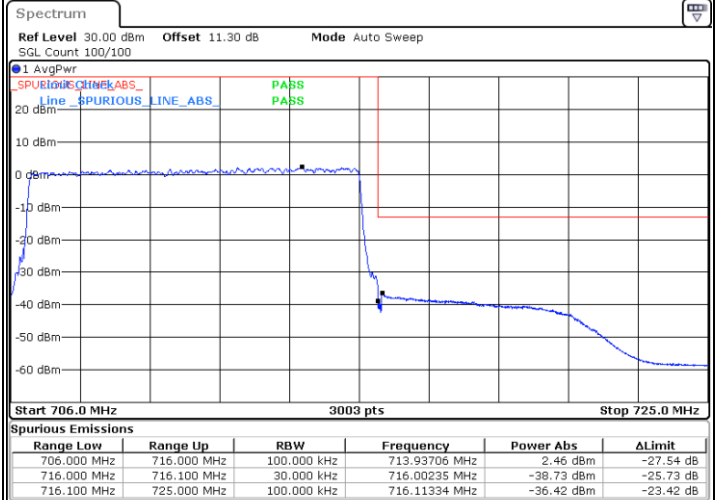


LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / Full RB

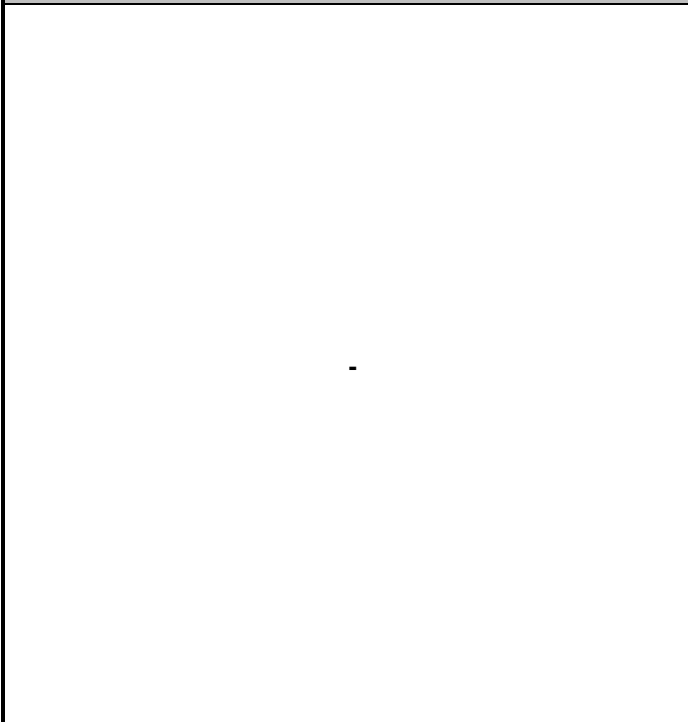


Highest Band Edge / Full RB

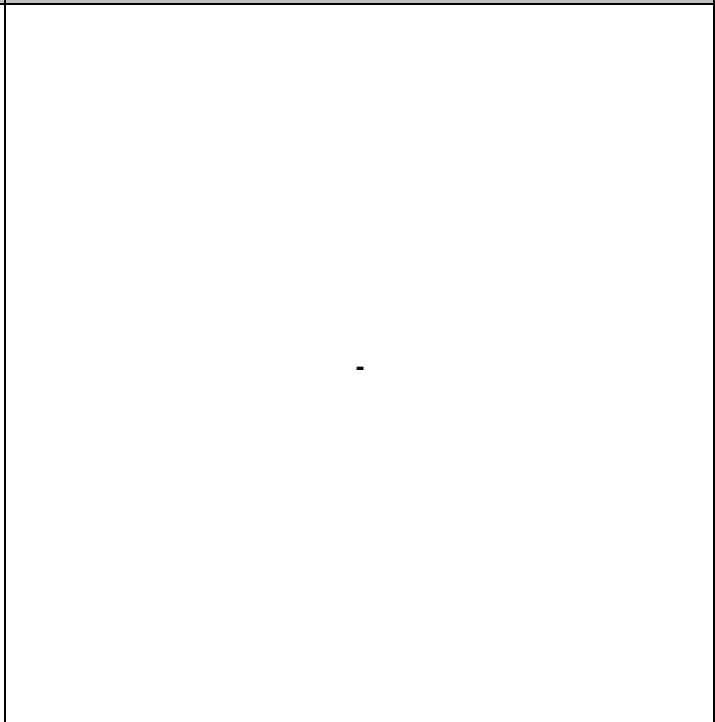


LTE Band 17 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

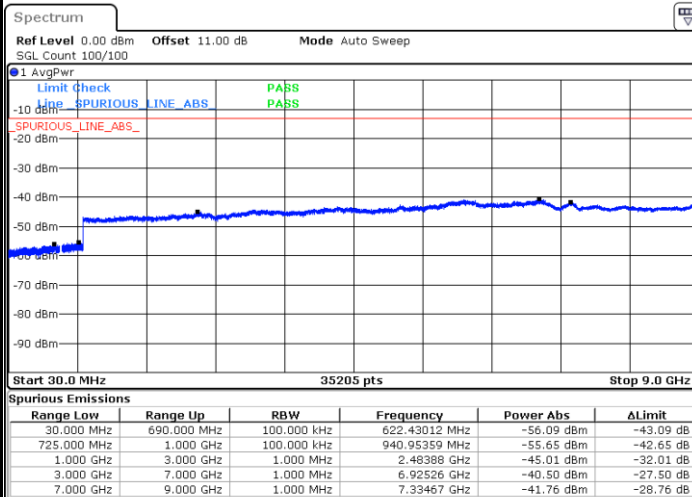




Conducted Spurious Emission

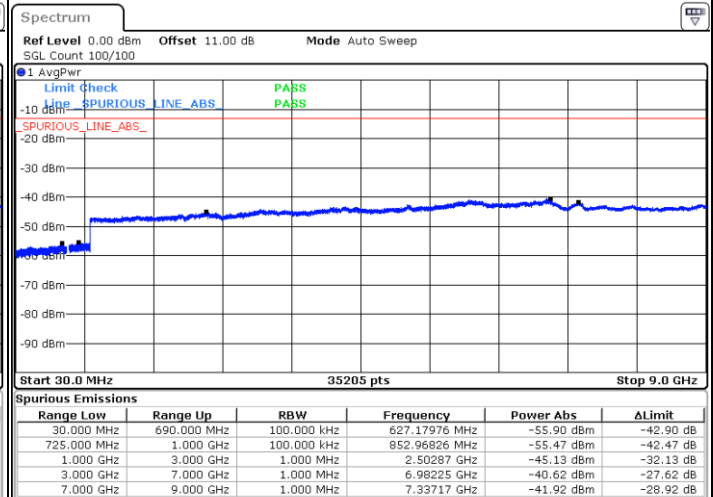
LTE Band 17 / 5MHz

Lowest Channel / QPSK



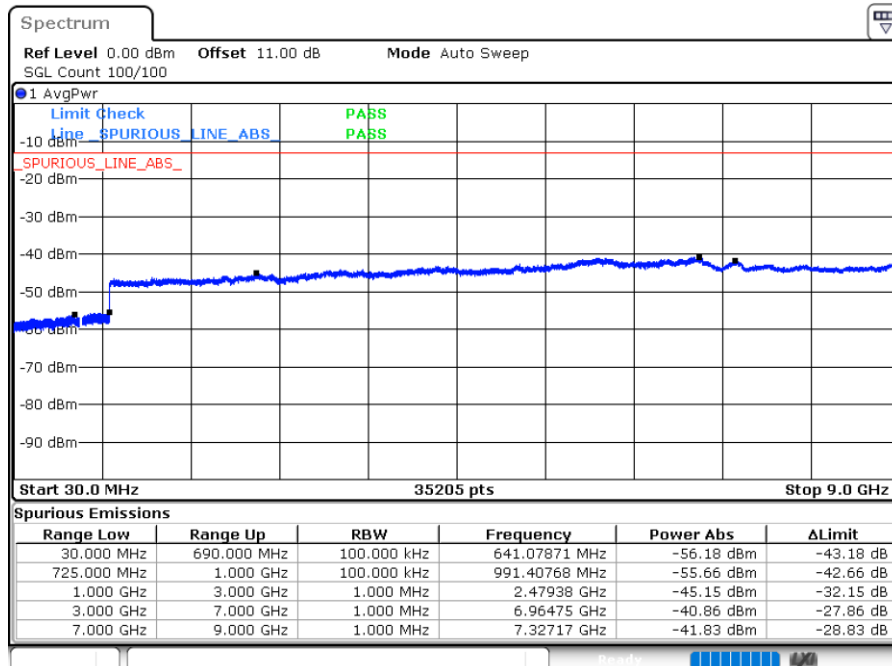
Date: 28.NOV.2024 18:08:54

Middle Channel / QPSK



Date: 28.NOV.2024 18:10:06

Highest Channel / QPSK

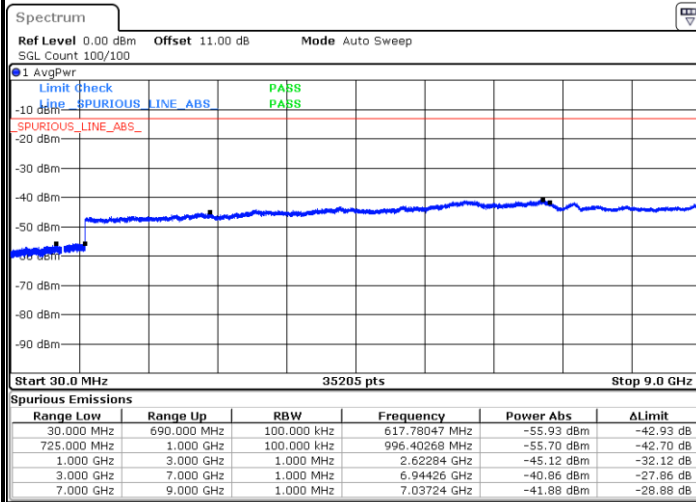


Date: 28.NOV.2024 18:11:18



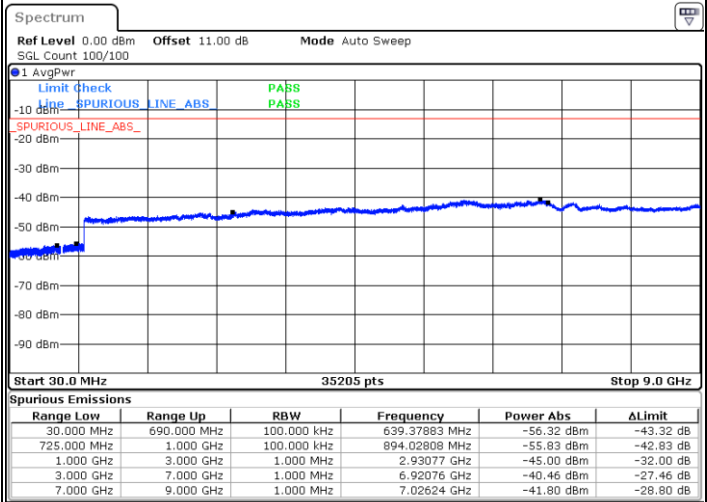
LTE Band 17 / 10MHz

Lowest Channel / QPSK



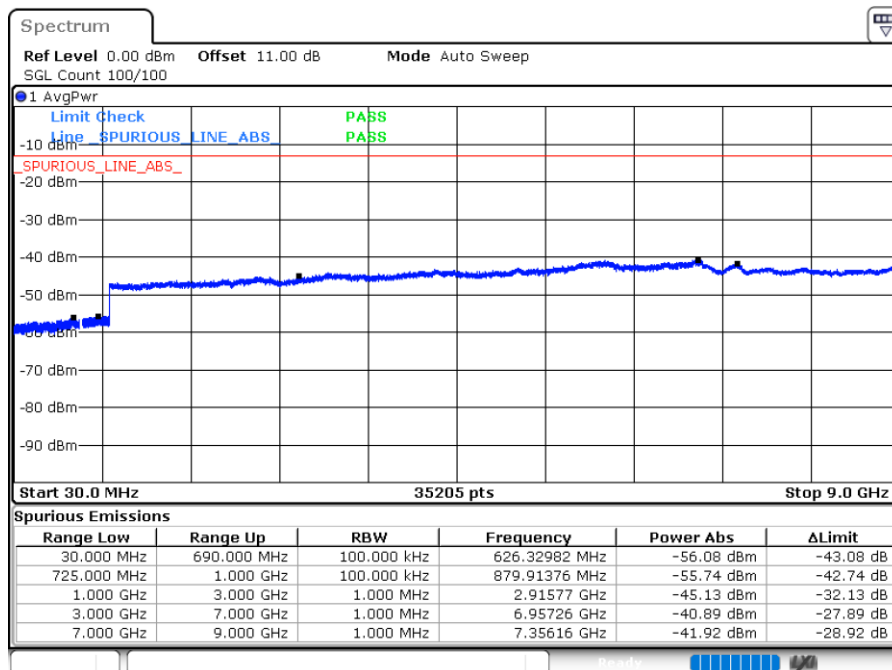
Date: 28.NOV.2024 18:12:31

Middle Channel / QPSK



Date: 28.NOV.2024 18:13:43

Highest Channel / QPSK



Date: 28.NOV.2024 18:14:56

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0094	PASS
30	Normal Voltage	0.0080	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0085	
0	Normal Voltage	0.0111	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0107	

Note:

1. Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

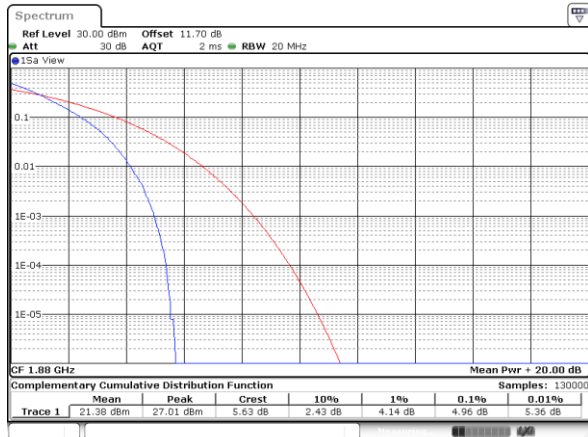
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.94	6.32	-	PASS



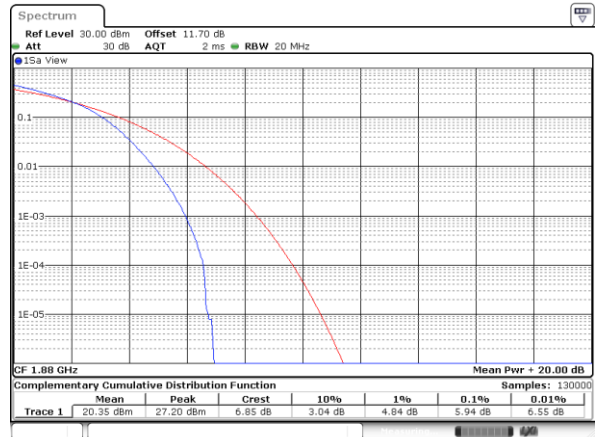
LTE Band 25 / 20MHz / QPSK

Middle Channel / Full RB



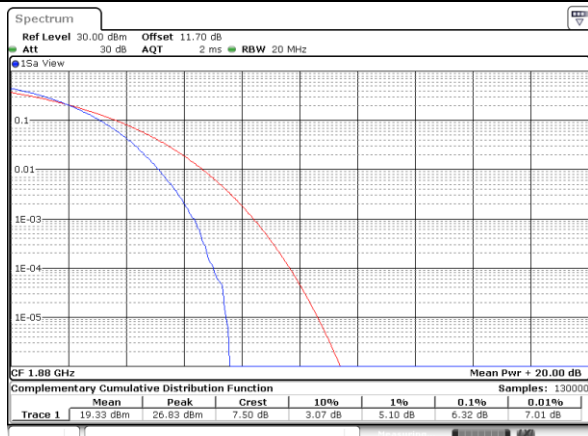
LTE Band 25 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 25 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 25 / 20MHz / 256QAM

Middle Channel / Full RB

-

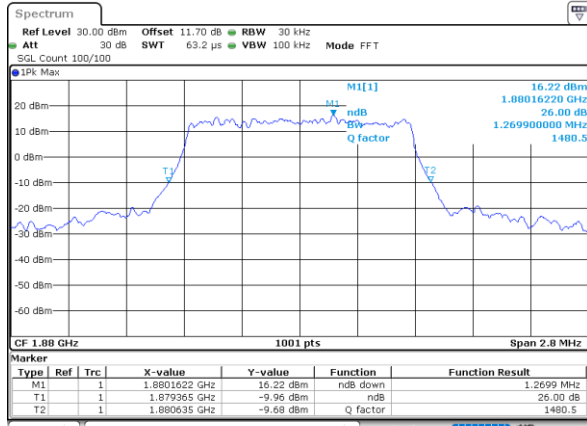
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.26	1.27	2.99	2.99	4.90	4.93	9.91	9.91	14.44	14.53	18.78	19.10
Mode	LTE Band 25 : 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	1.26	-	3.00	-	4.99	-	9.78	-	14.56	-	19.02	-



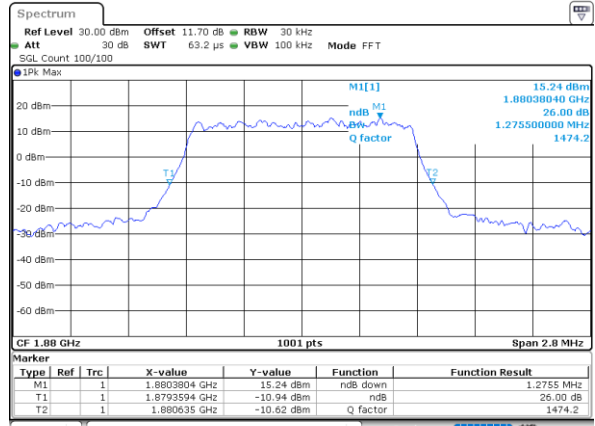
LTE Band 25

Middle Channel / 1.4MHz / QPSK



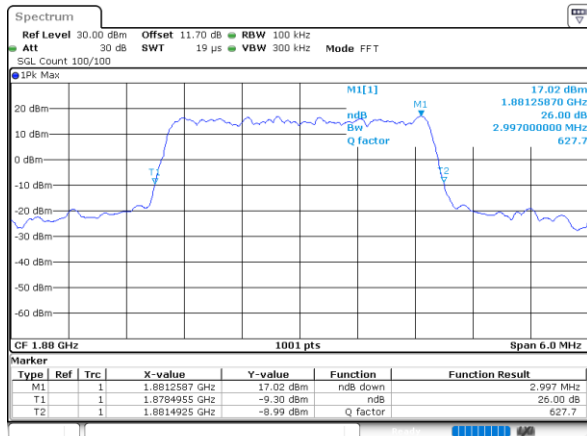
Date: 29.NOV.2024 04:18:57

Middle Channel / 1.4MHz / 16QAM



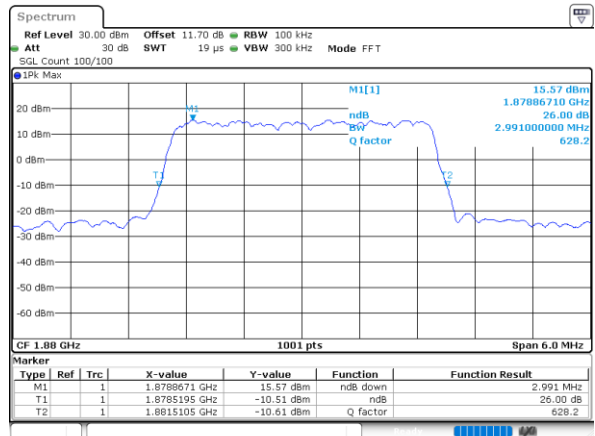
Date: 29.NOV.2024 04:19:25

Middle Channel / 3MHz / QPSK



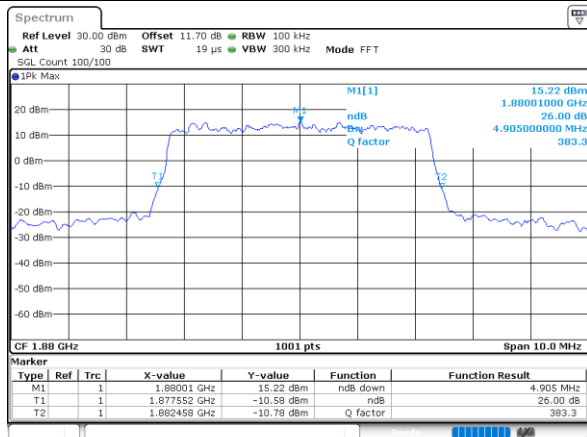
Date: 29.NOV.2024 04:19:58

Middle Channel / 3MHz / 16QAM



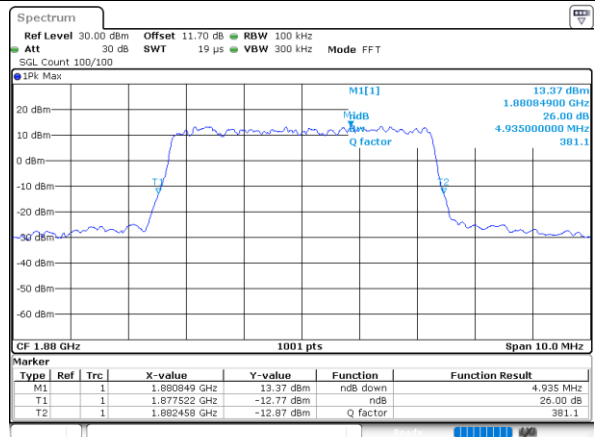
Date: 29.NOV.2024 04:20:26

Middle Channel / 5MHz / QPSK



Date: 29.NOV.2024 04:21:28

Middle Channel / 5MHz / 16QAM

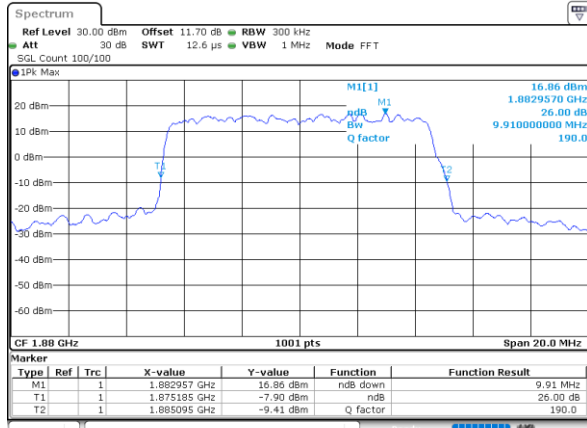


Date: 29.NOV.2024 04:21:56



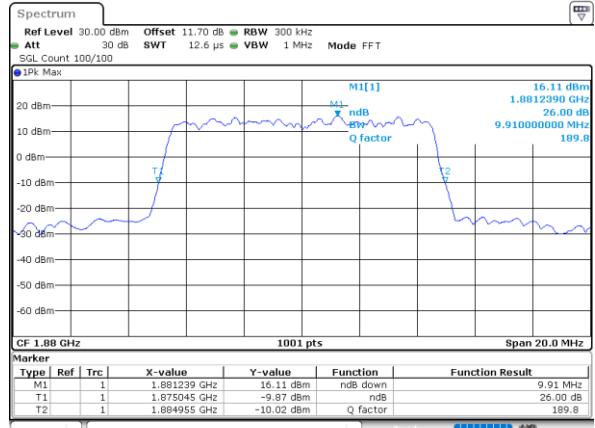
LTE Band 25

Middle Channel / 10MHz / QPSK



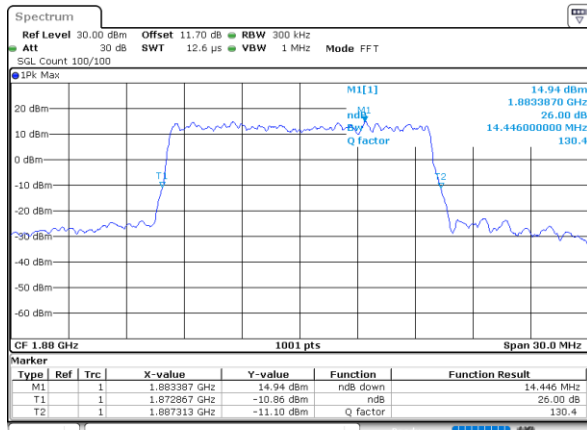
Date: 29.NOV.2024 04:22:58

Middle Channel / 10MHz / 16QAM



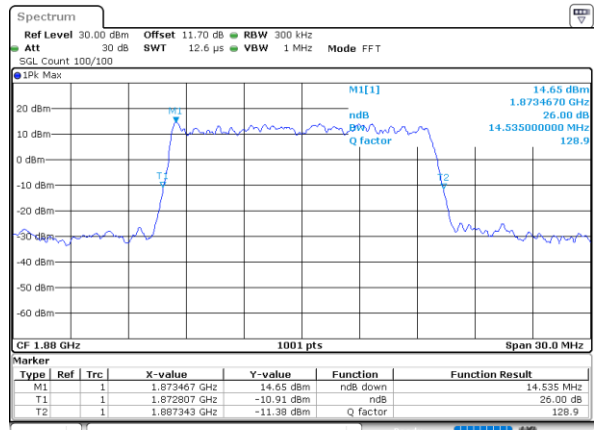
Date: 29.NOV.2024 04:23:26

Middle Channel / 15MHz / QPSK



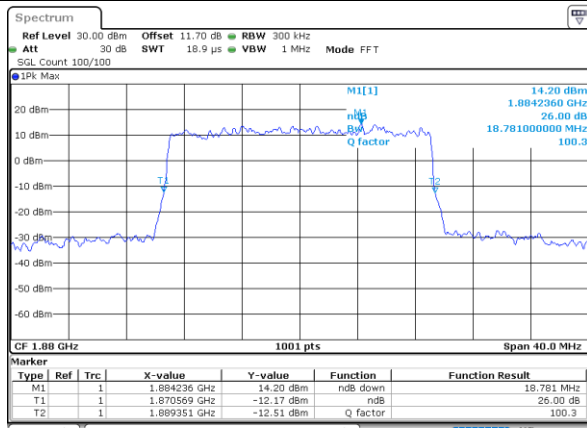
Date: 29.NOV.2024 04:24:28

Middle Channel / 15MHz / 16QAM



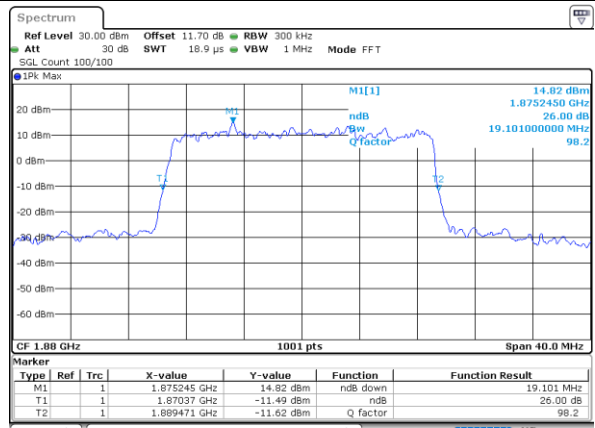
Date: 29.NOV.2024 04:24:56

Middle Channel / 20MHz / QPSK



Date: 29.NOV.2024 04:25:57

Middle Channel / 20MHz / 16QAM

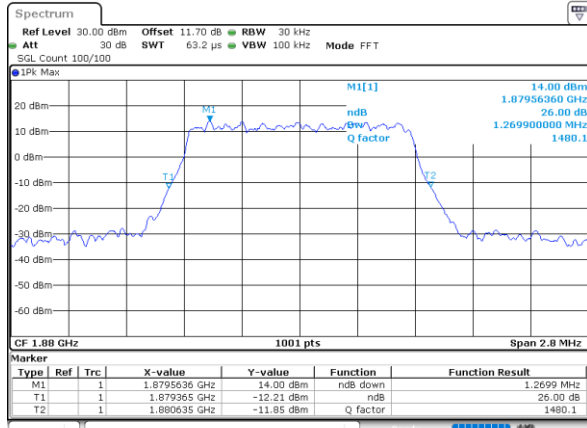


Date: 29.NOV.2024 04:26:26



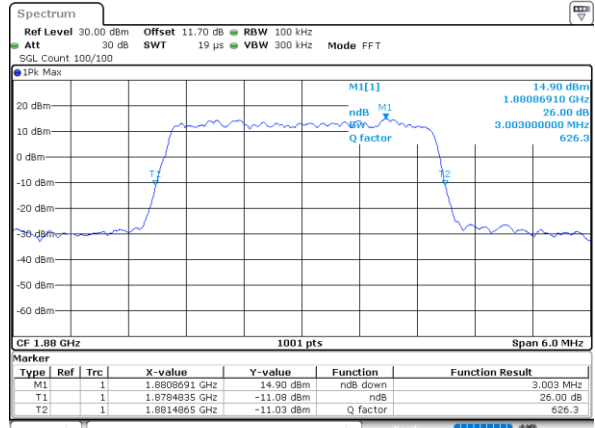
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



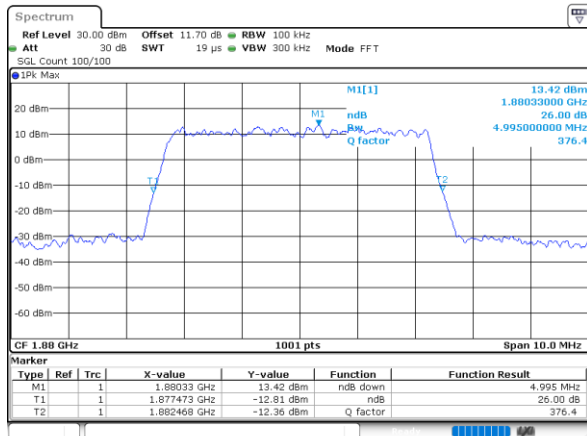
Date: 29.NOV.2024 04:18:20

Middle Channel / 3MHz / 64QAM



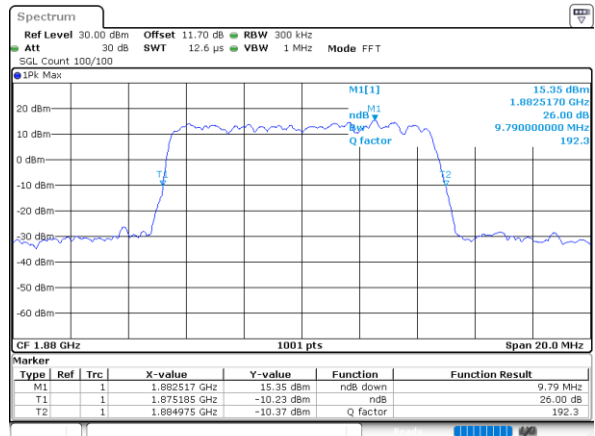
Date: 29.NOV.2024 04:20:55

Middle Channel / 5MHz / 64QAM



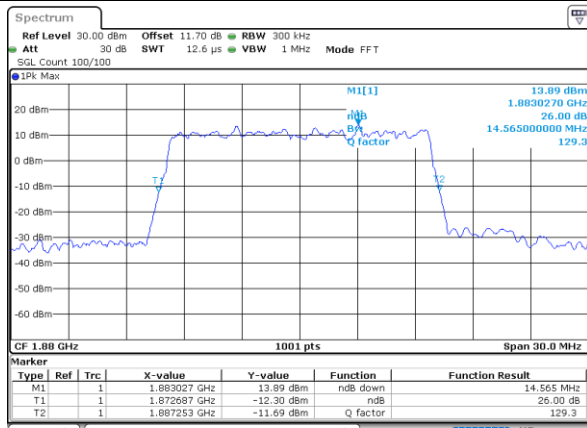
Date: 29.NOV.2024 04:22:24

Middle Channel / 10MHz / 64QAM



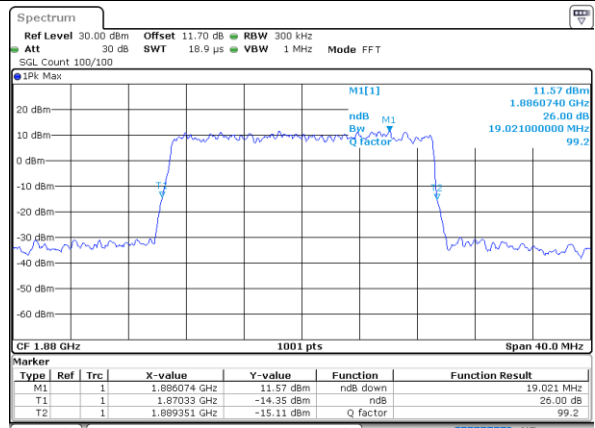
Date: 29.NOV.2024 04:23:54

Middle Channel / 15MHz / 64QAM



Date: 29.NOV.2024 04:25:24

Middle Channel / 20MHz / 64QAM



Date: 29.NOV.2024 04:26:55

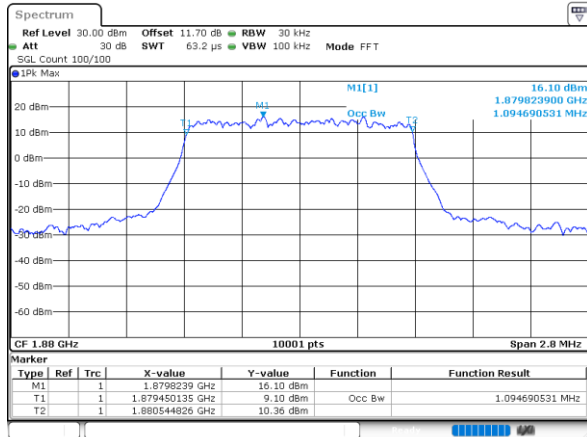
**Occupied Bandwidth**

Mode	LTE Band 25 : 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	2.69	4.47	4.49	9.03	9.01	13.45	13.36	17.87	17.87
Mode	LTE Band 25 : 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	1.08	-	2.72	-	4.48	-	9.01	-	13.40	-	17.83	-

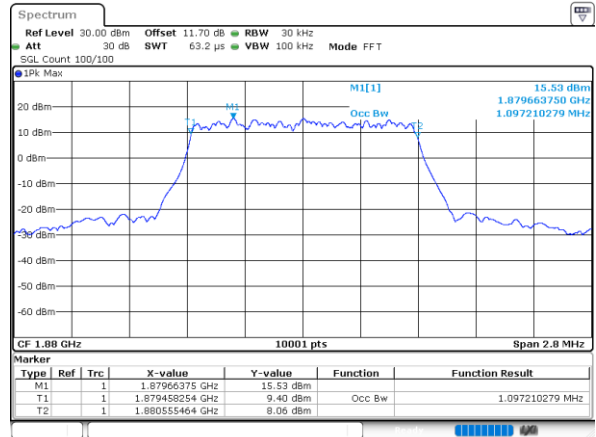


LTE Band 25

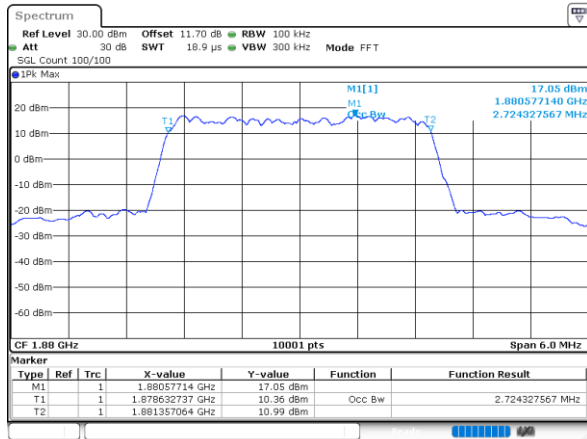
Middle Channel / 1.4MHz / QPSK



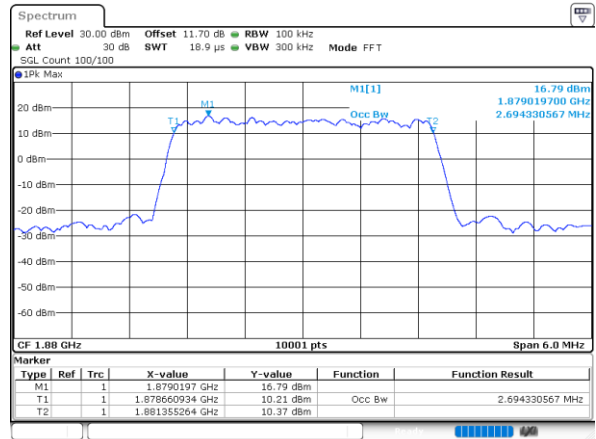
Middle Channel / 1.4MHz / 16QAM



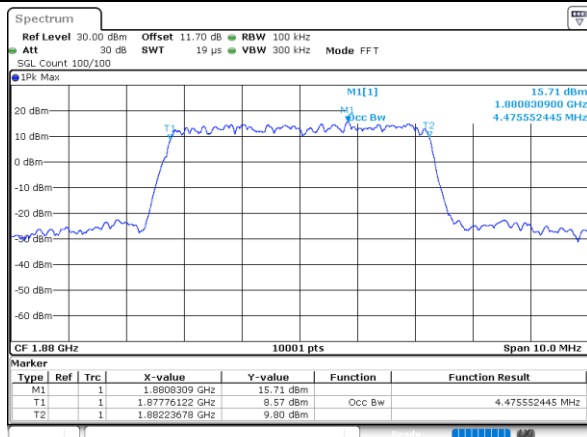
Middle Channel / 3MHz / QPSK



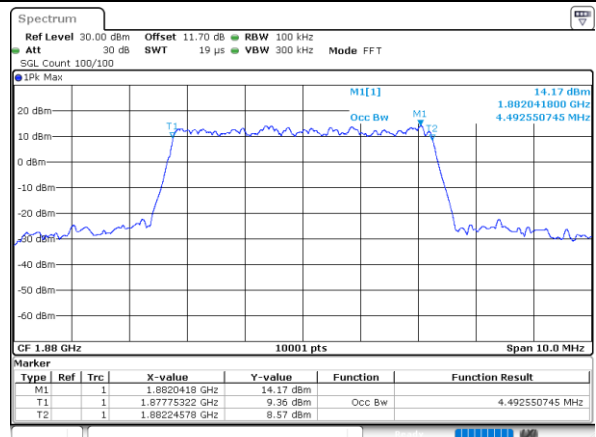
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



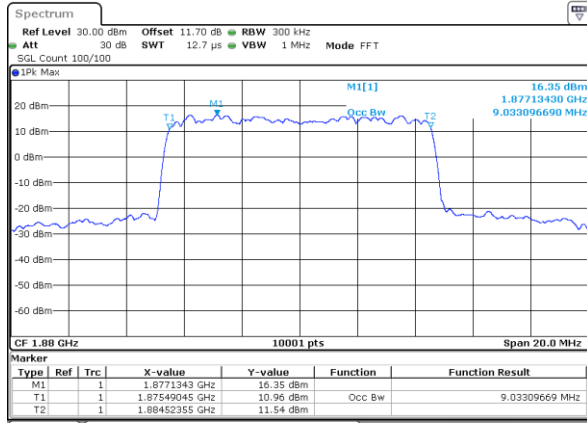
Middle Channel / 5MHz / 16QAM



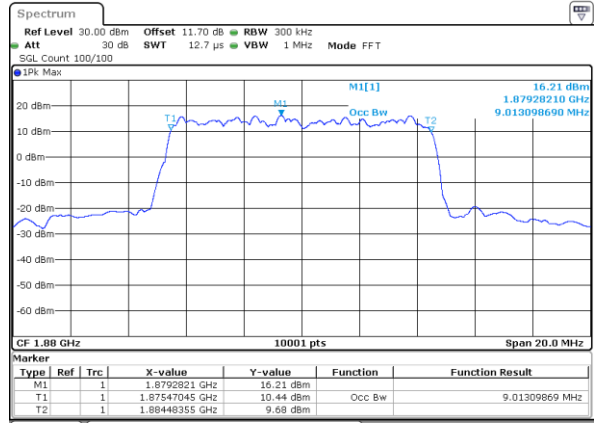


LTE Band 25

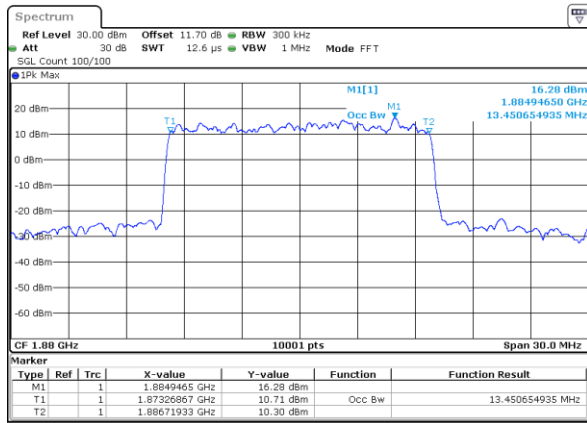
Middle Channel / 10MHz / QPSK



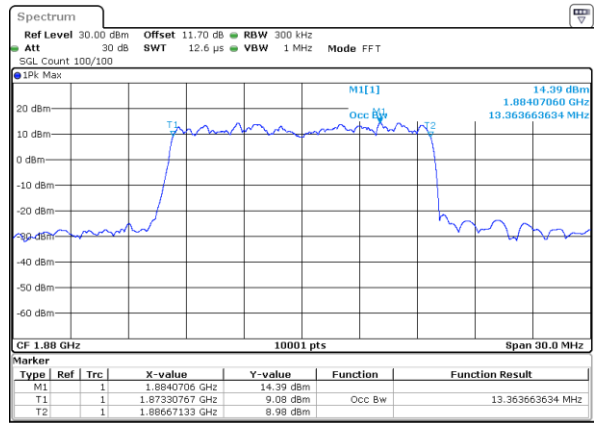
Middle Channel / 10MHz / 16QAM



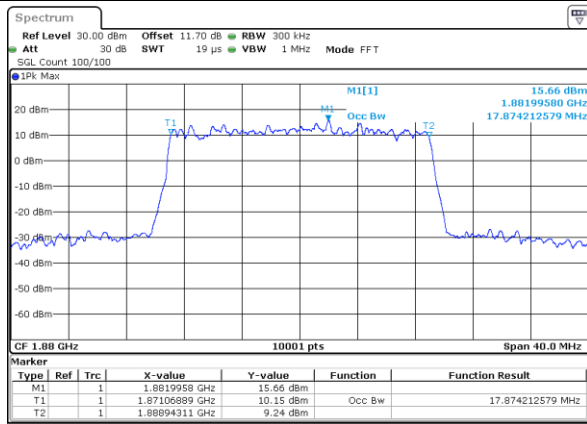
Middle Channel / 15MHz / QPSK



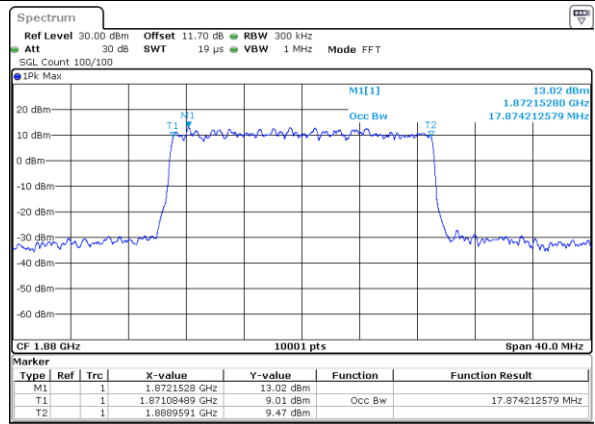
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



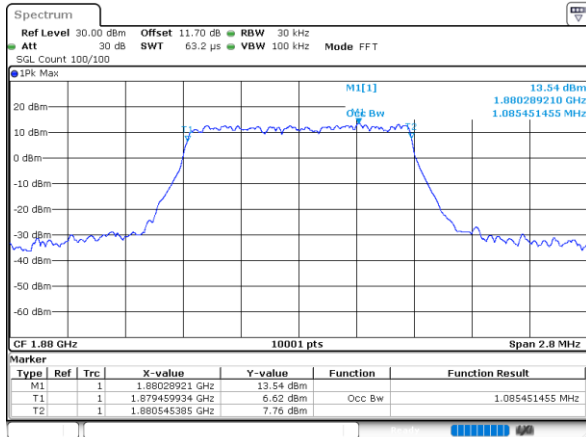
Middle Channel / 20MHz / 16QAM



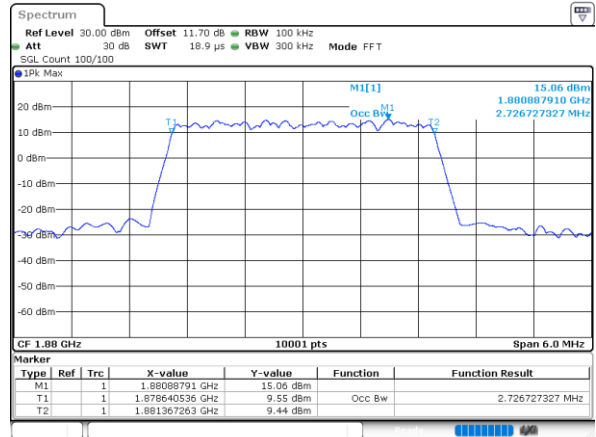


LTE Band 25

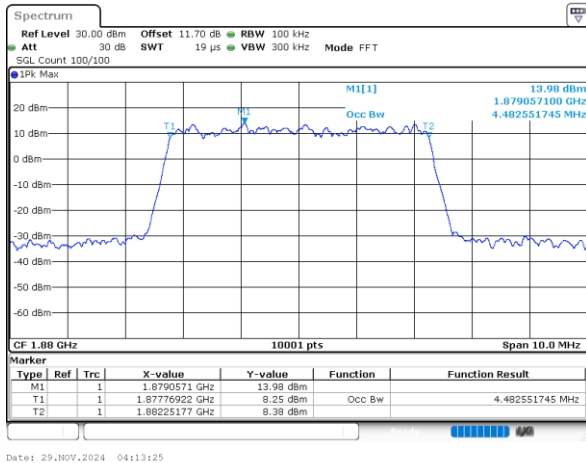
Middle Channel / 1.4MHz / 64QAM



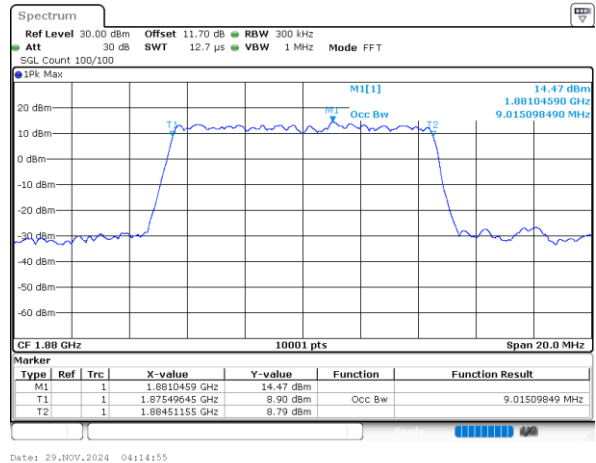
Middle Channel / 3MHz / 64QAM



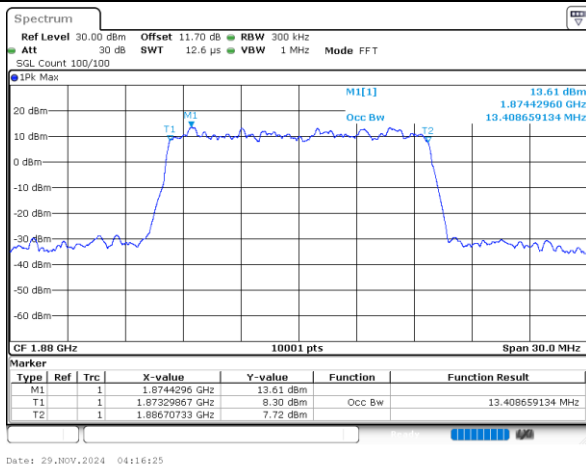
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

