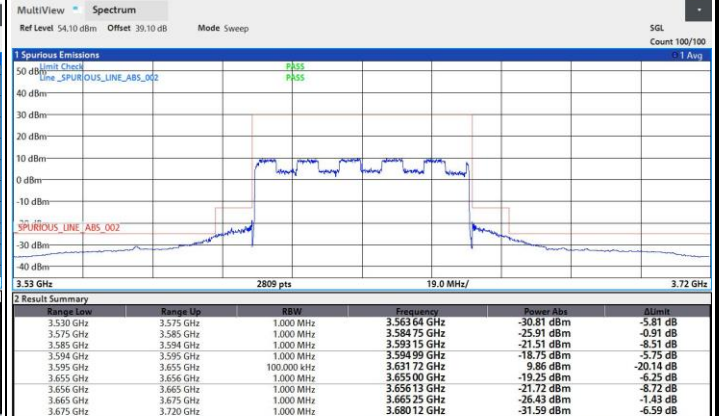
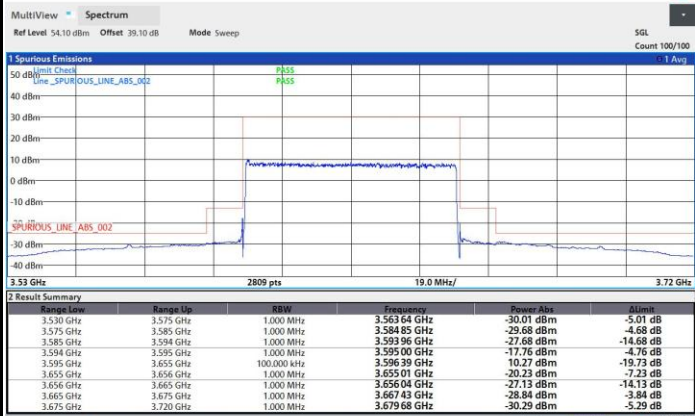




FR1 n48 / 60MHz / Middle Channel / MASK

QPSK

16QAM

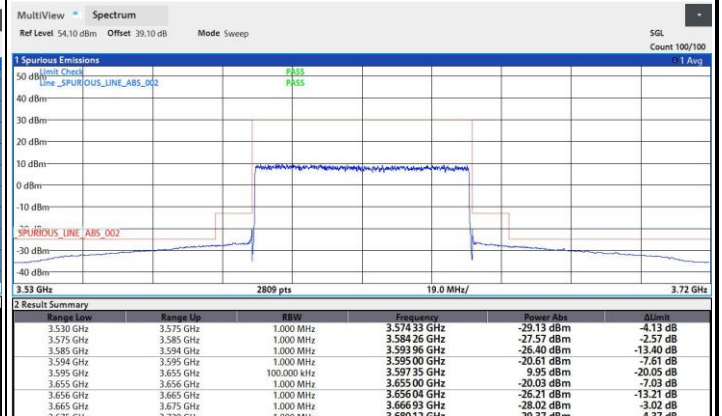
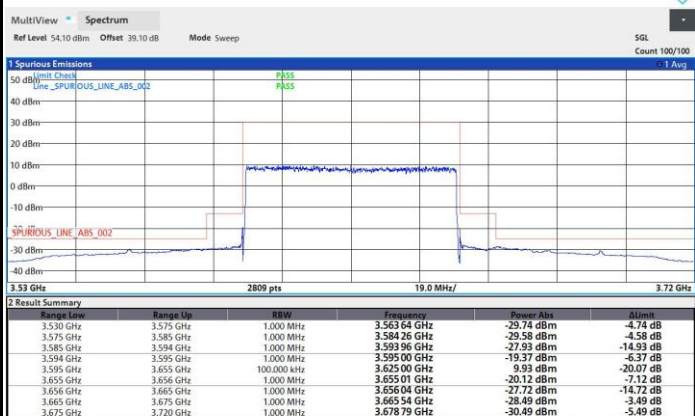


07:55:25 19.10.2022

16:18:36 04.11.2022

64QAM

256QAM



16:39:57 19.10.2022

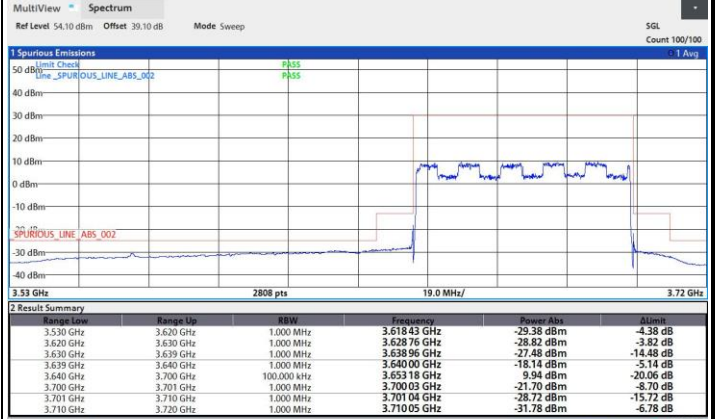
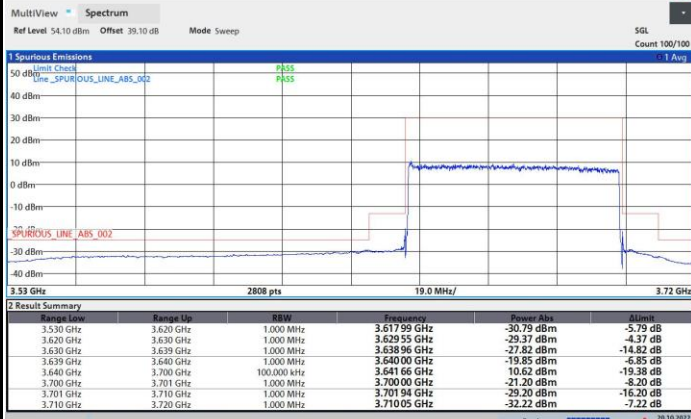
14:18:14 20.10.2022



FR1 n48 / 60MHz / Highest Channel / MASK

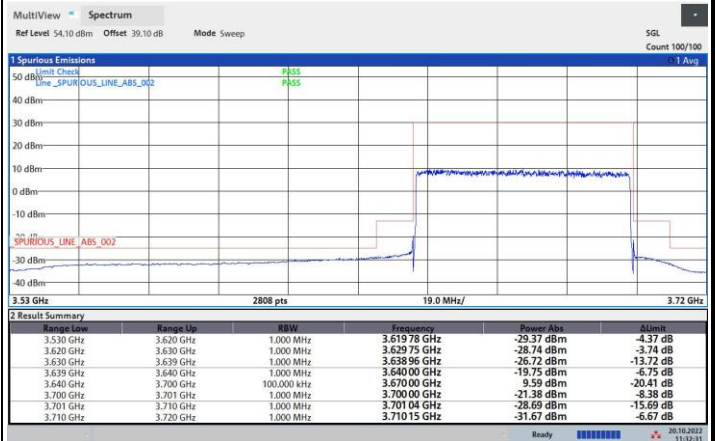
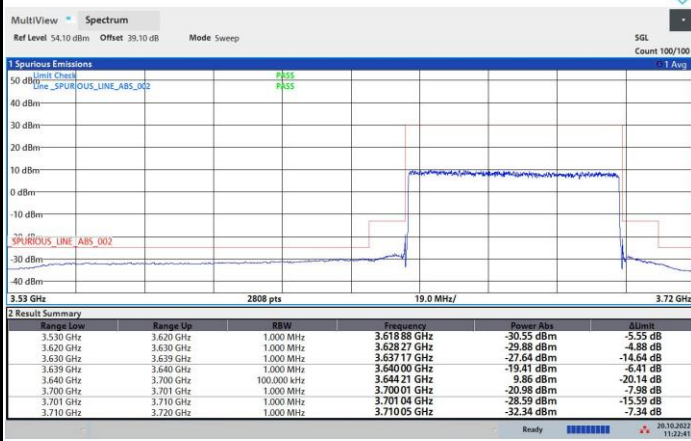
QPSK

16QAM



64QAM

256QAM

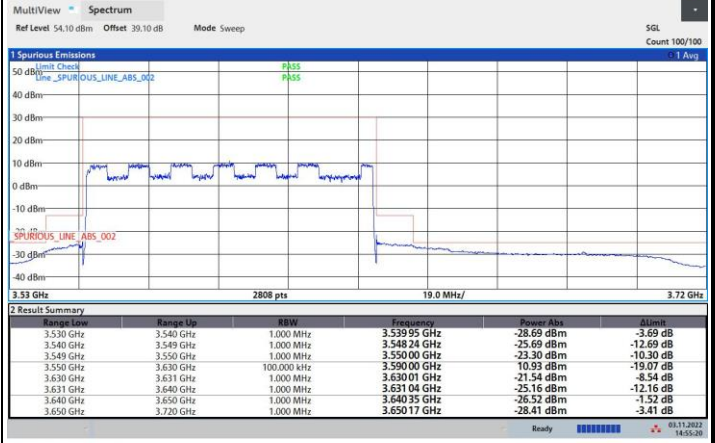
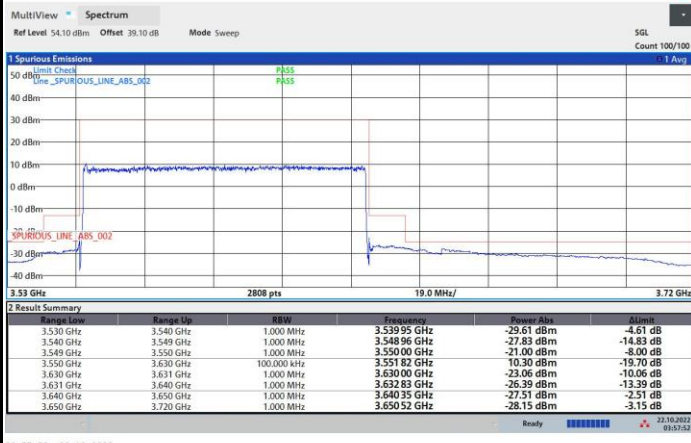




FR1 n48 / 80MHz / Lowest Channel / MASK

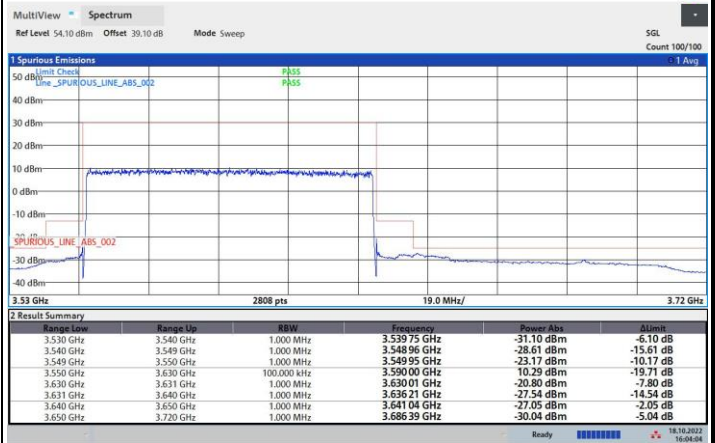
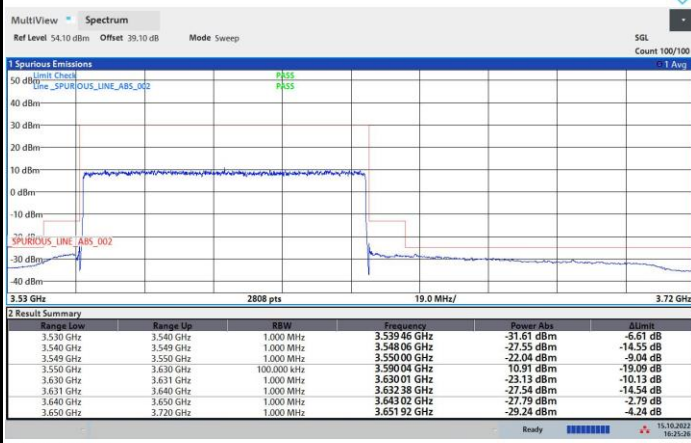
QPSK

16QAM



64QAM

256QAM

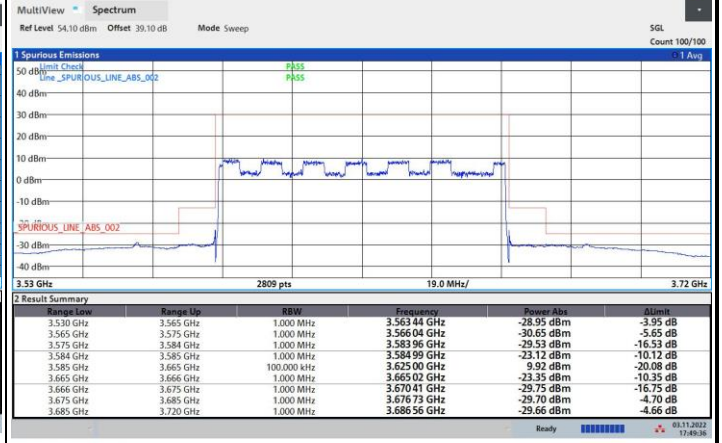
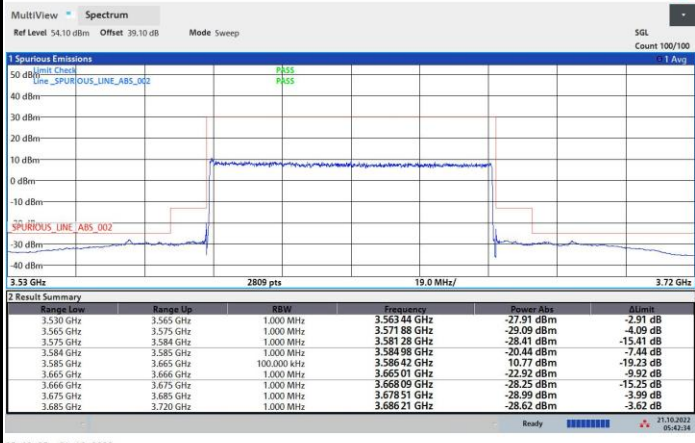




FR1 n48 / 80MHz / Middle Channel / MASK

QPSK

16QAM

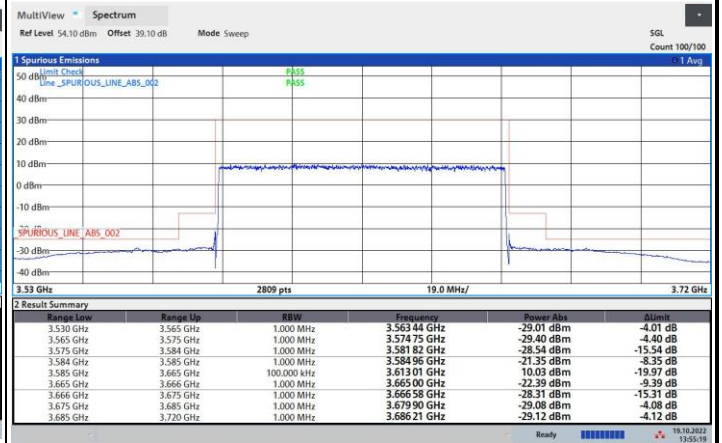
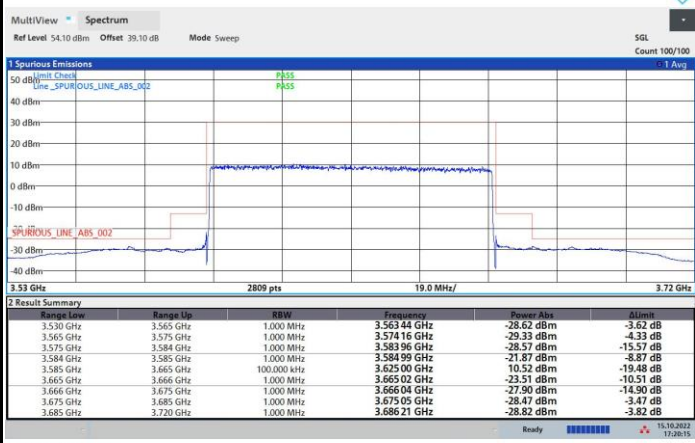


05:42:35 21.10.2022

17:49:36 03.11.2022

64QAM

256QAM



17:20:16 15.10.2022

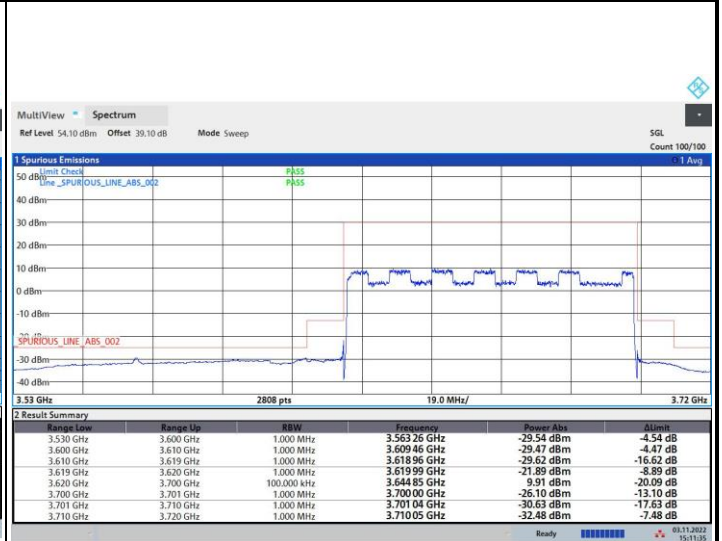
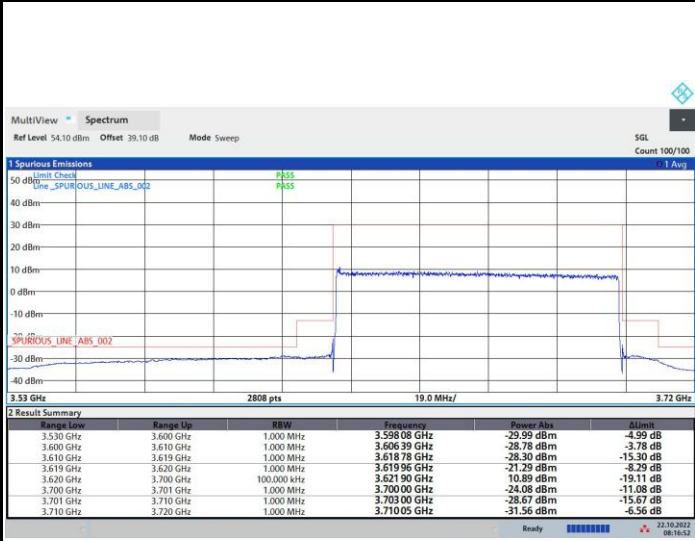
13:55:19 19.10.2022



FR1 n48 / 80MHz / Highest Channel / MASK

QPSK

16QAM

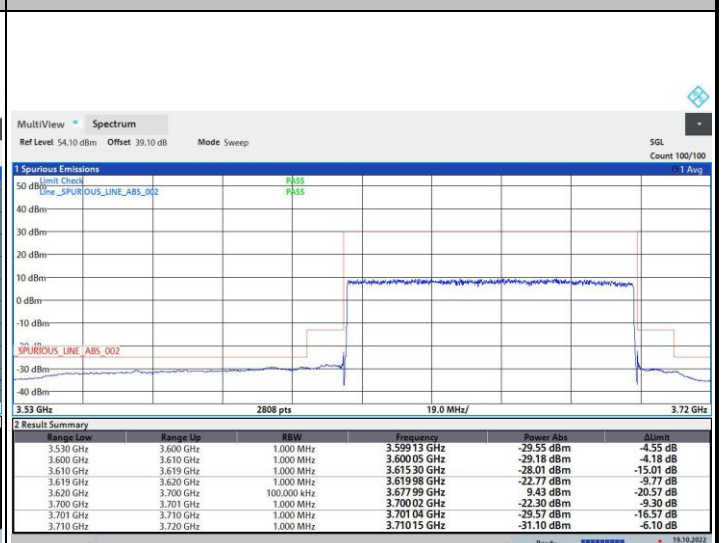
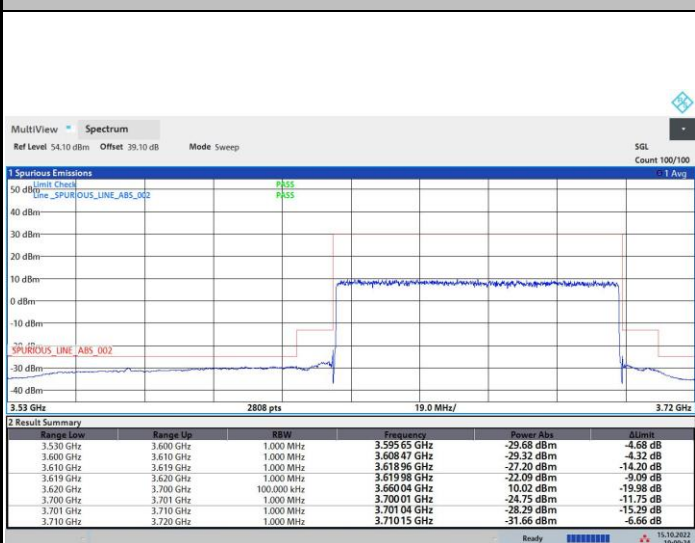


08:16:53 22.10.2022

15:11:35 03.11.2022

64QAM

256QAM



19:00:25 15.10.2022

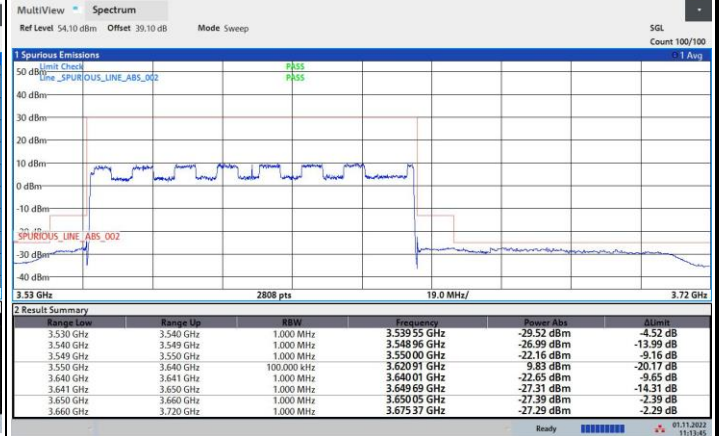
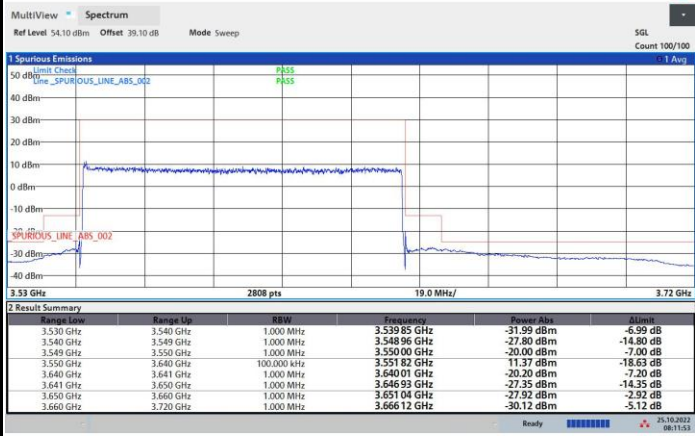
10:47:55 19.10.2022



FR1 n48 / 90MHz / Lowest Channel / MASK

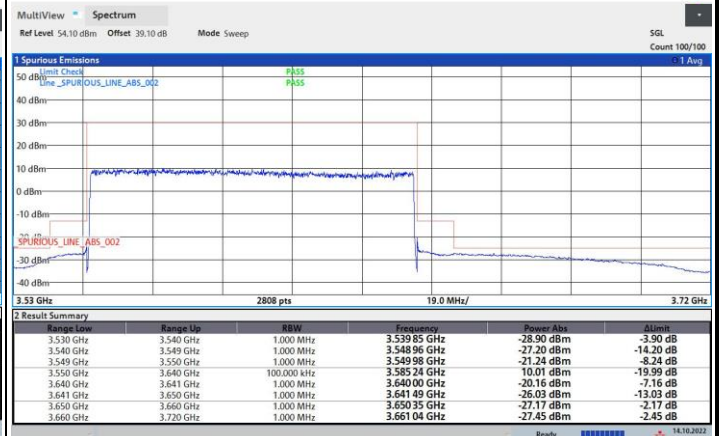
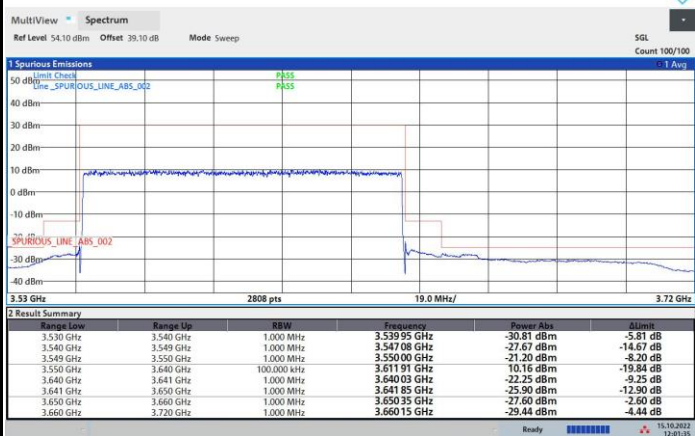
QPSK

16QAM



64QAM

256QAM

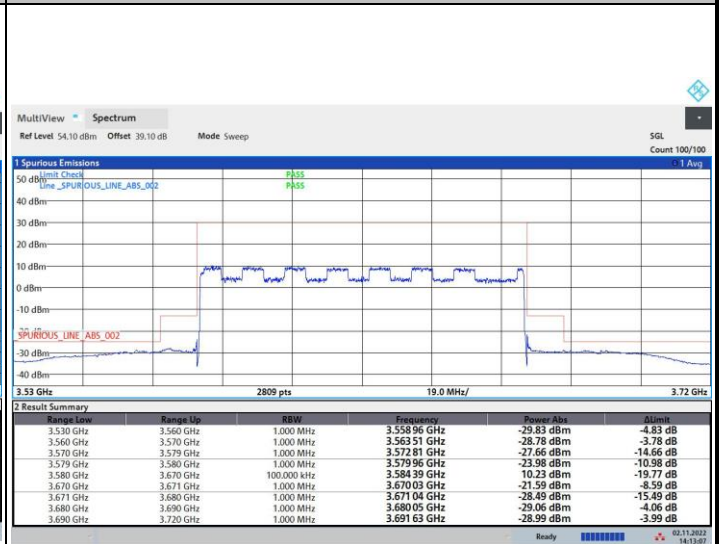
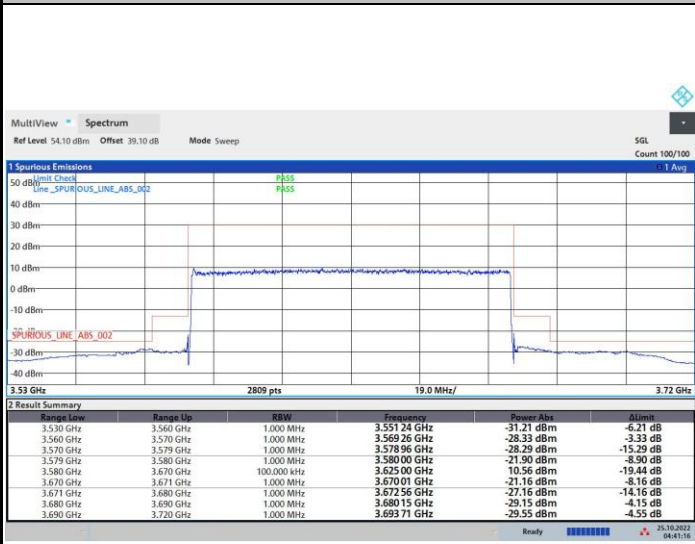




FR1 n48 / 90MHz / Middle Channel / MASK

QPSK

16QAM

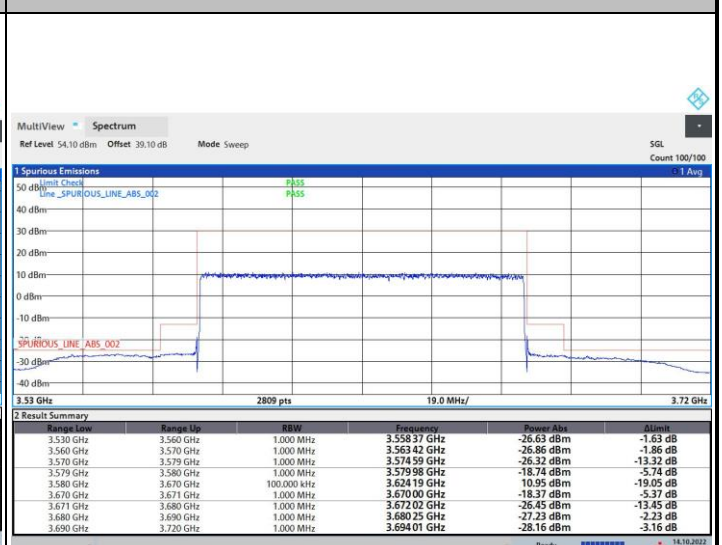
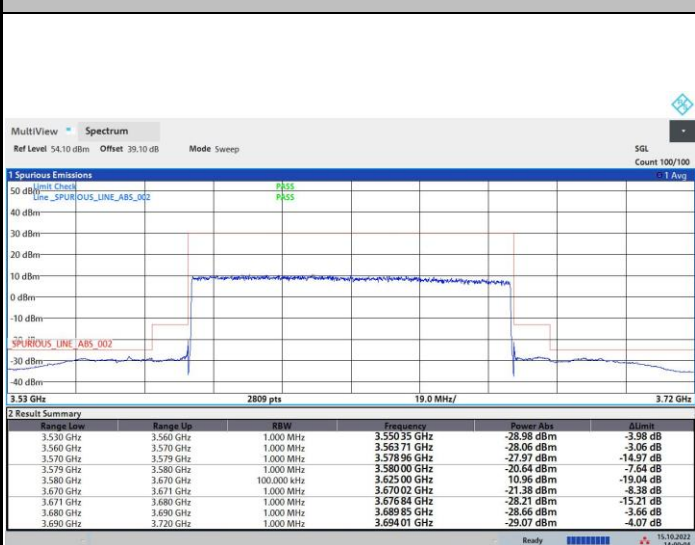


04:41:17 25.10.2022

14:13:07 02.11.2022

64QAM

256QAM



14:00:04 15.10.2022

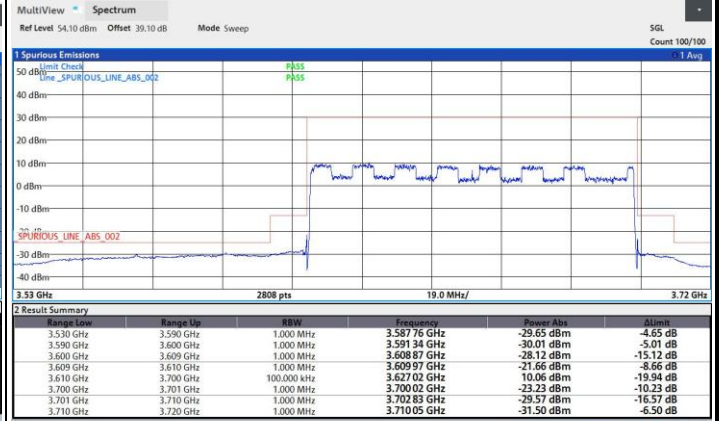
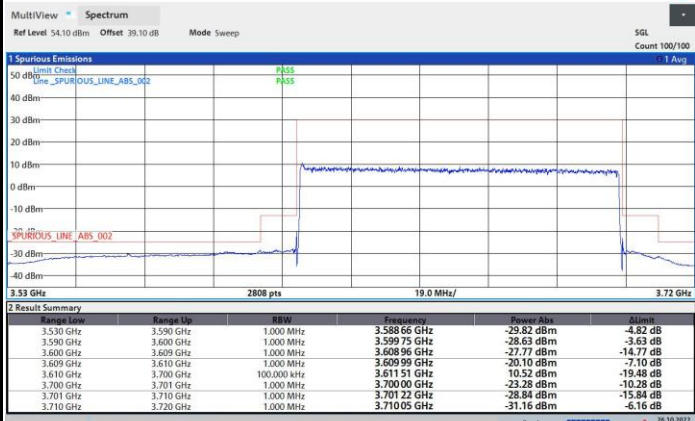
17:11:27 14.10.2022



FR1 n48 / 90MHz / Highest Channel / MASK

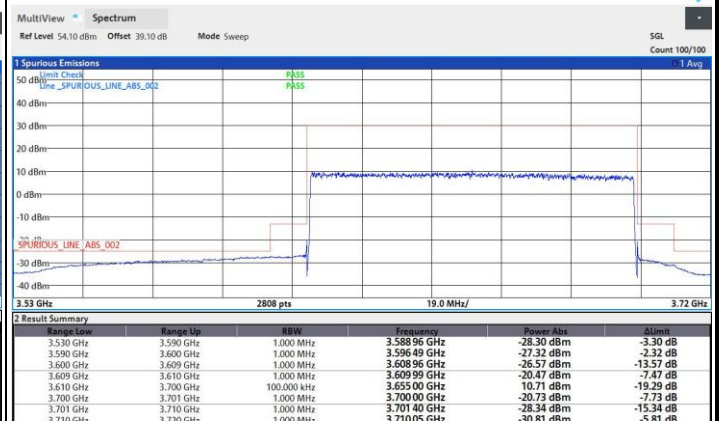
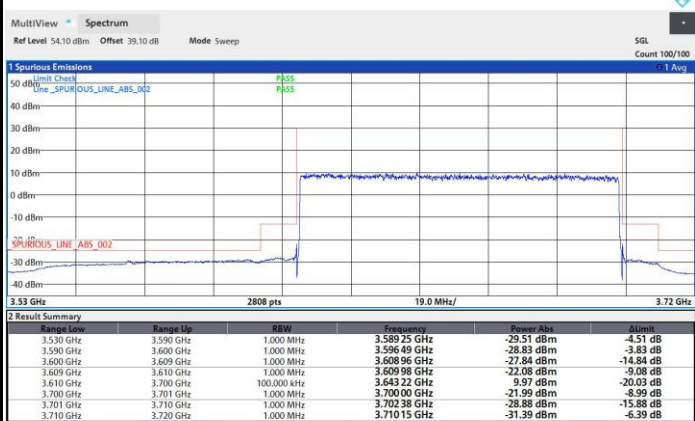
QPSK

16QAM



64QAM

256QAM

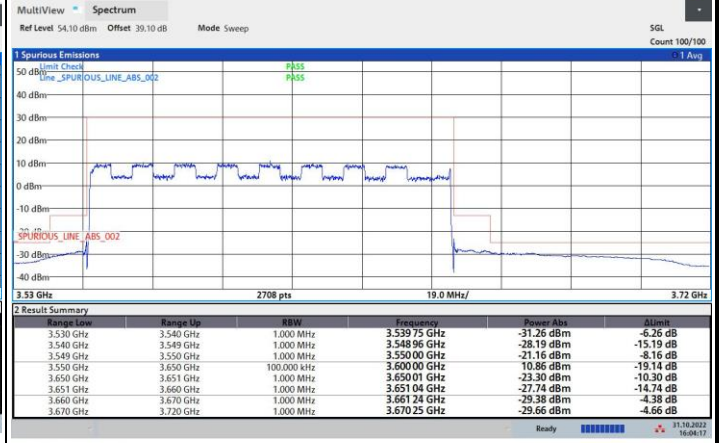
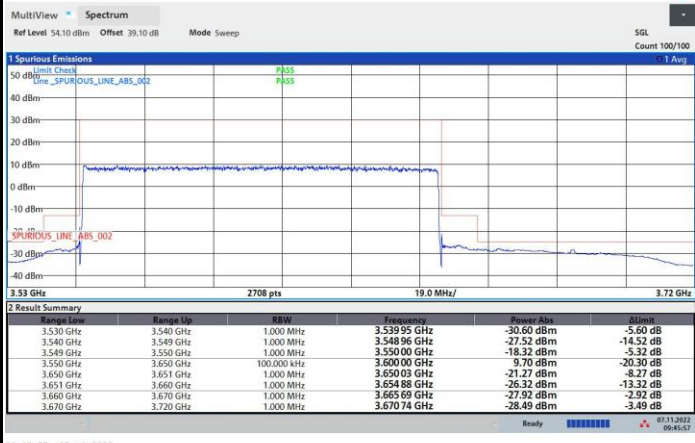




FR1 n48 / 100MHz / Lowest Channel / MASK

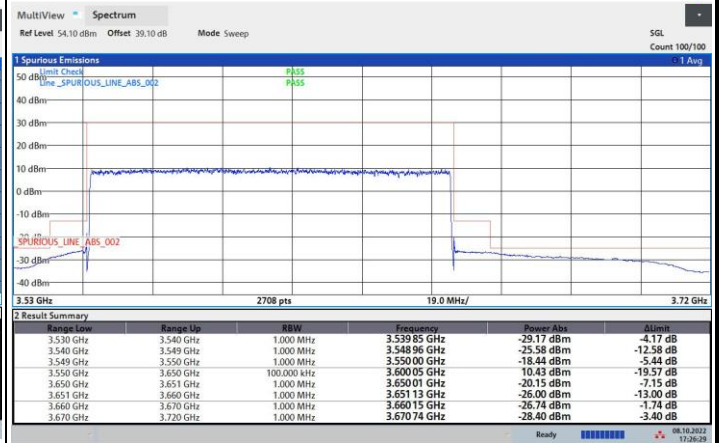
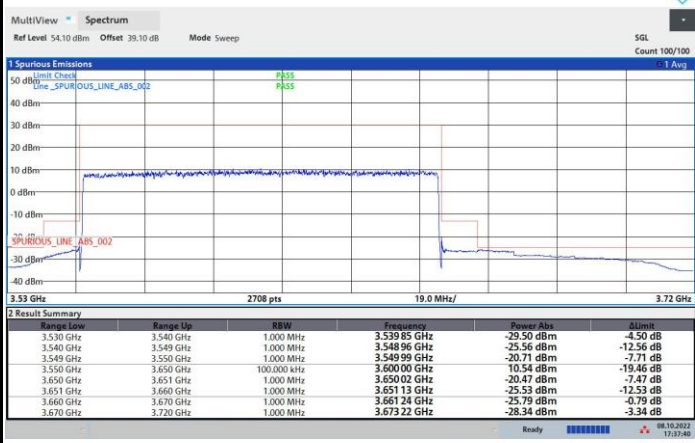
QPSK

16QAM



64QAM

256QAM

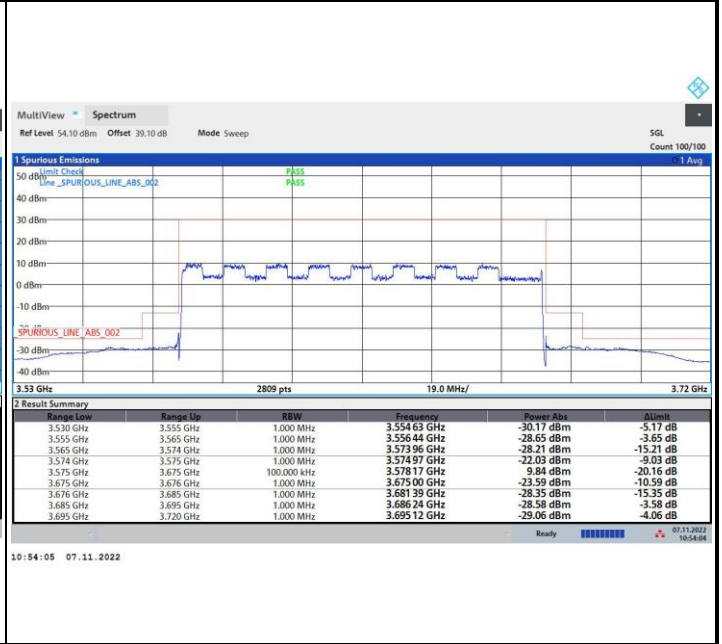
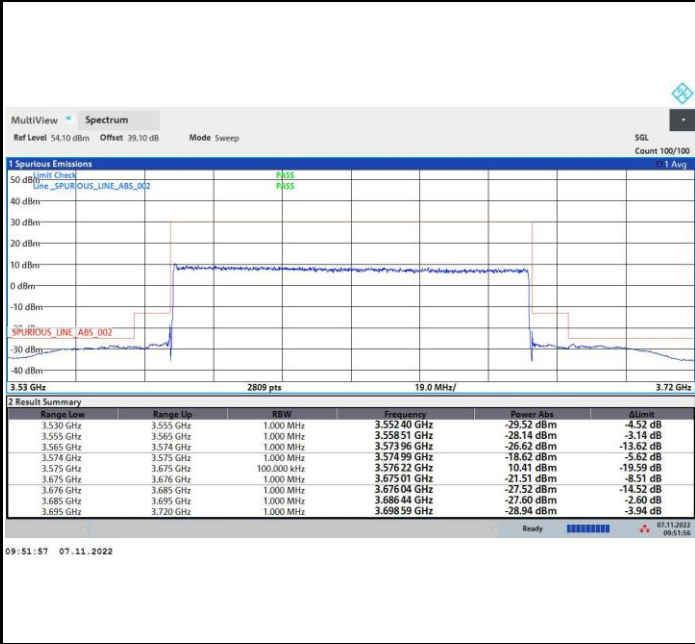




FR1 n48 / 100MHz / Middle Channel / MASK

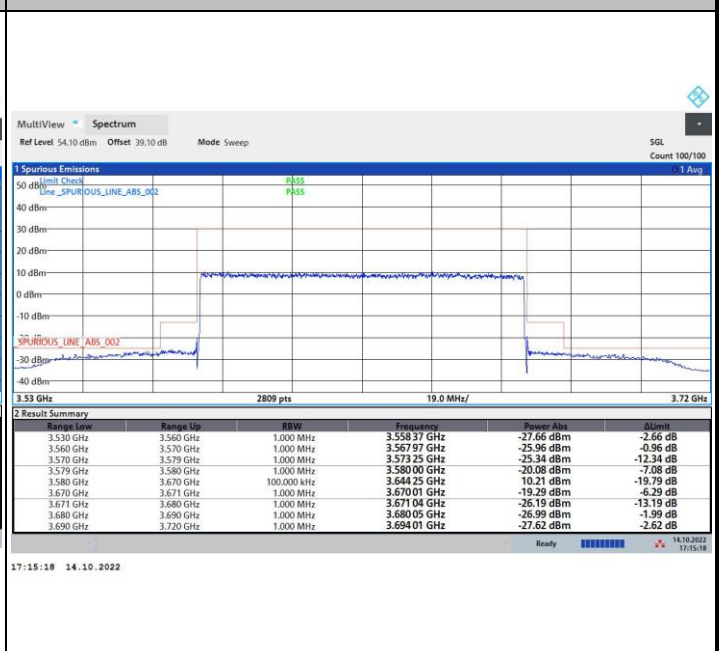
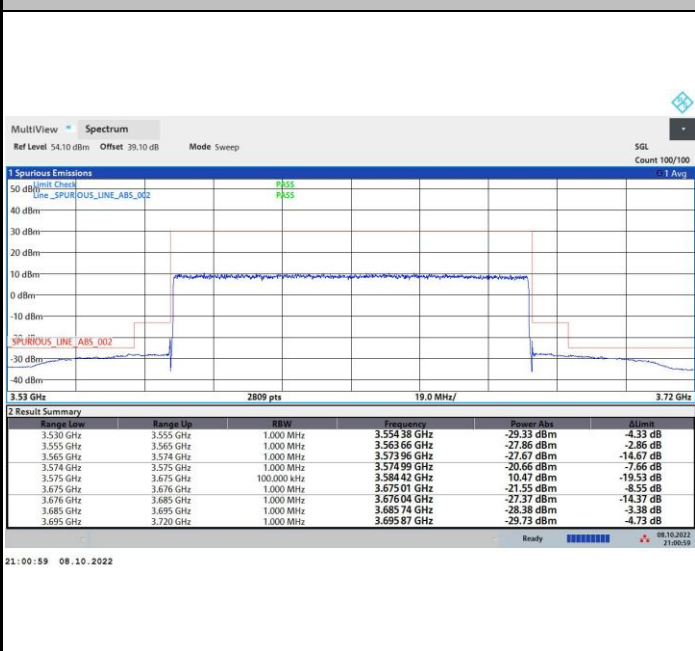
QPSK

16QAM



64QAM

256QAM

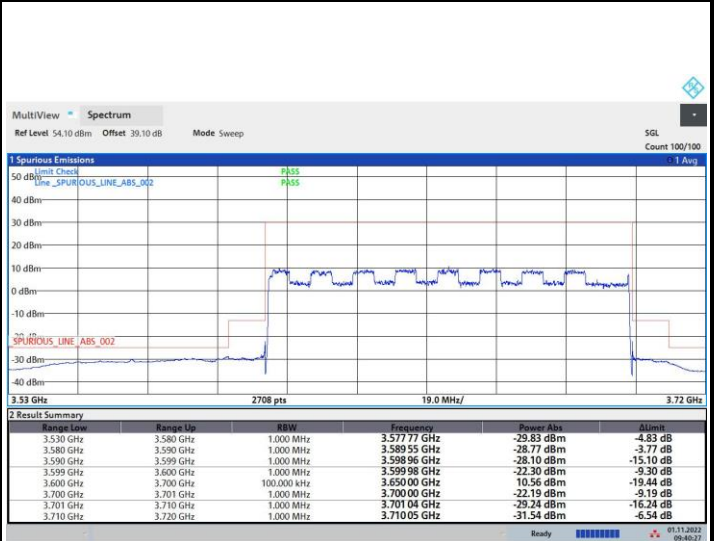
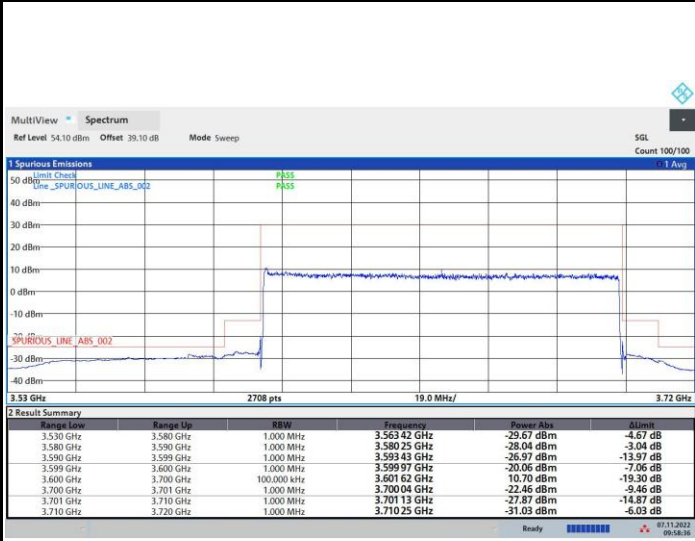




FR1 n48 / 100MHz / Highest Channel / MASK

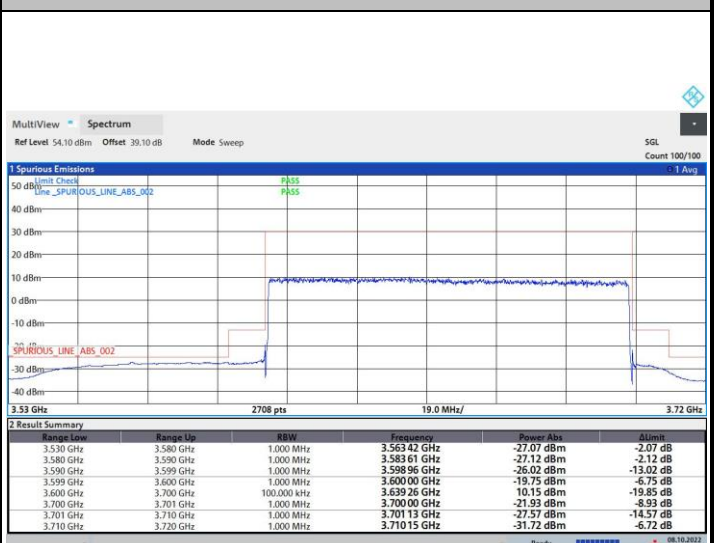
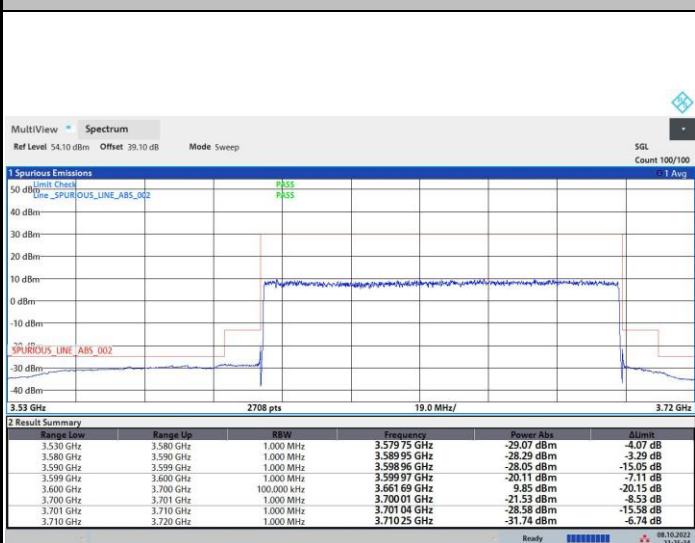
QPSK

16QAM



64QAM

256QAM





Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





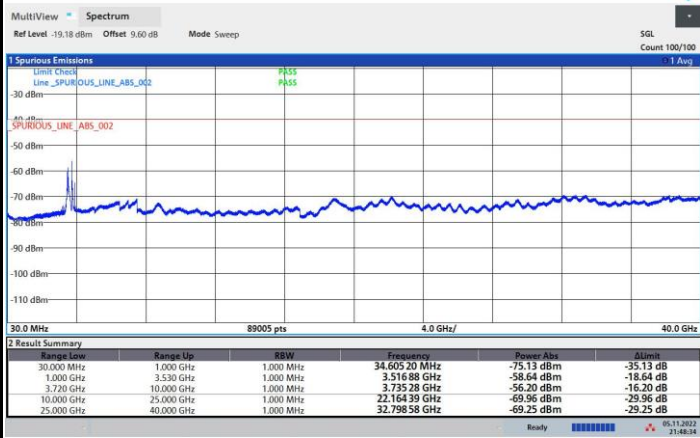
FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

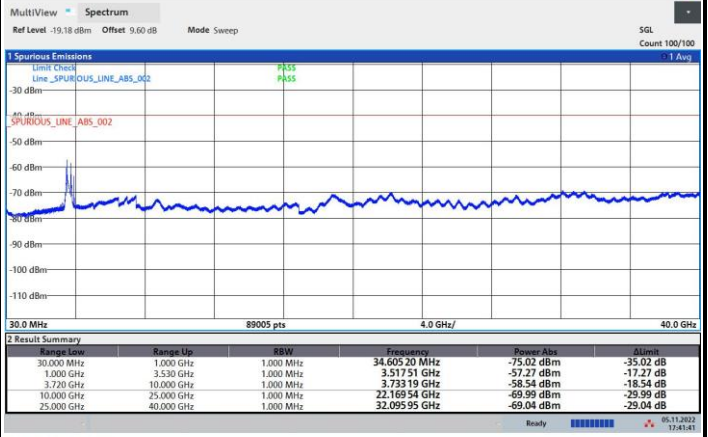




FR1 n48 / 50MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





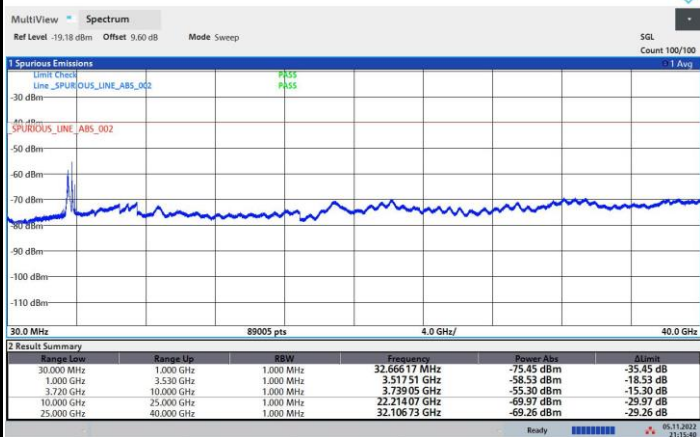
FR1 n48 / 60MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

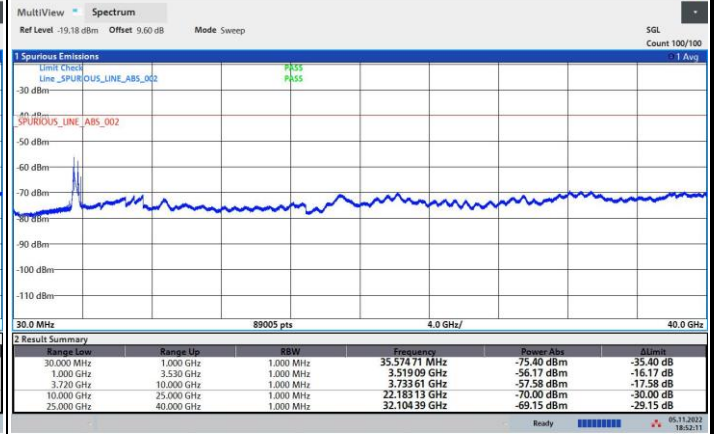




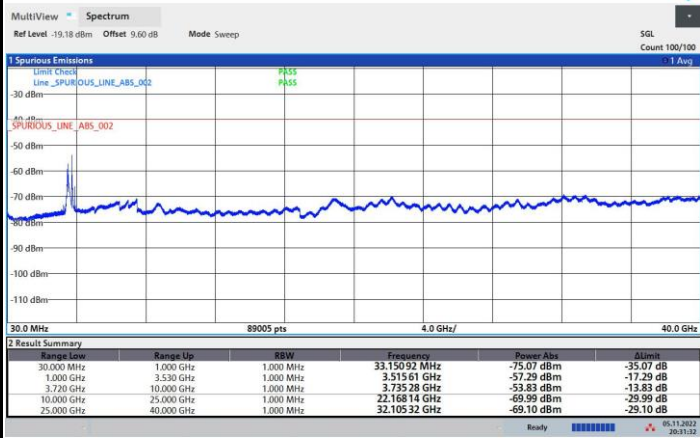
FR1 n48 / 80MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





FR1 n48 / 90MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





FR1 n48 / 100MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0041	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0050	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0055	
20	Minimum Voltage	0.0014	

Note:

- 1. Normal Voltage = 110 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



<MIMO ANT 2>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel							
	10MHz		20MHz		40MHz		50MHz	
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	20.98	20.74	21.66	20.50	21.68	20.12	21.48	20.02
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	21.20	21.01	21.46	21.53	21.95	22.27	22.19	22.08
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	21.69	20.46	21.59	20.88	21.50	20.83	21.33	20.71
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	22.30	22.12	22.20	22.08	22.27	22.17	22.23	22.41

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel							
	10MHz		20MHz		40MHz		50MHz	
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	45.00	44.76	45.68	44.52	45.70	44.14	45.50	44.04
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	45.22	45.03	45.48	45.55	45.97	46.29	46.21	46.10
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	45.71	44.48	45.61	44.90	45.52	44.85	45.35	44.73
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	46.32	46.14	46.22	46.10	46.29	46.19	46.25	46.43
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 18dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Middle Channel							
	10MHz		20MHz		40MHz		50MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	21.07	20.87	21.36	20.64	21.60	20.64	21.53	20.05
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	21.07	20.94	21.15	21.54	22.12	22.32	22.08	22.08
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	21.57	20.93	21.50	20.75	21.39	20.55	21.41	20.35
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	22.10	22.11	22.24	22.10	22.17	22.13	22.17	22.34

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel							
	10MHz		20MHz		40MHz		50MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	45.09	44.89	45.38	44.66	45.62	44.66	45.55	44.07
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	45.09	44.96	45.17	45.56	46.14	46.34	46.10	46.10
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	45.59	44.95	45.52	44.77	45.41	44.57	45.43	44.37
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	46.12	46.13	46.26	46.12	46.19	46.15	46.19	46.36
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 18dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel							
	10MHz		20MHz		40MHz		50MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	20.77	20.89	21.42	20.53	21.49	20.69	21.57	20.61
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	20.88	20.86	21.37	21.29	22.02	22.14	22.18	22.14
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	21.52	20.18	21.36	20.41	21.37	20.51	21.36	20.26
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	22.44	22.24	22.18	22.25	22.16	22.11	21.69	22.28

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel							
	10MHz		20MHz		40MHz		50MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	44.79	44.91	45.44	44.55	45.51	44.71	45.59	44.63
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	44.90	44.88	45.39	45.31	46.04	46.16	46.20	46.16
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	45.54	44.20	45.38	44.43	45.39	44.53	45.38	44.28
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	46.46	46.26	46.20	46.27	46.18	46.13	45.71	46.30
Limit	47dBm/10MHz							
Result	PASS							

Note

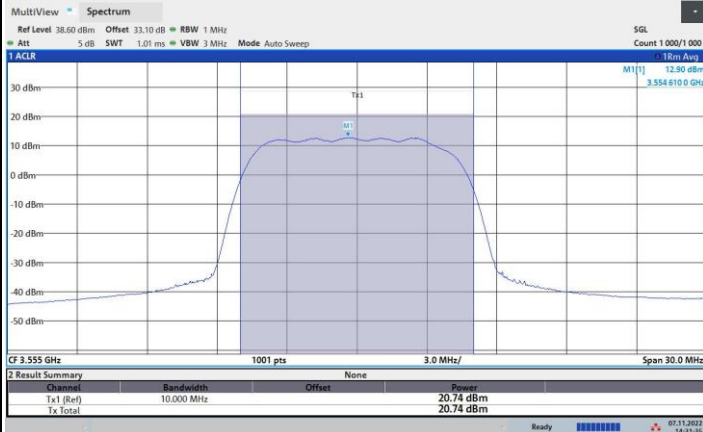
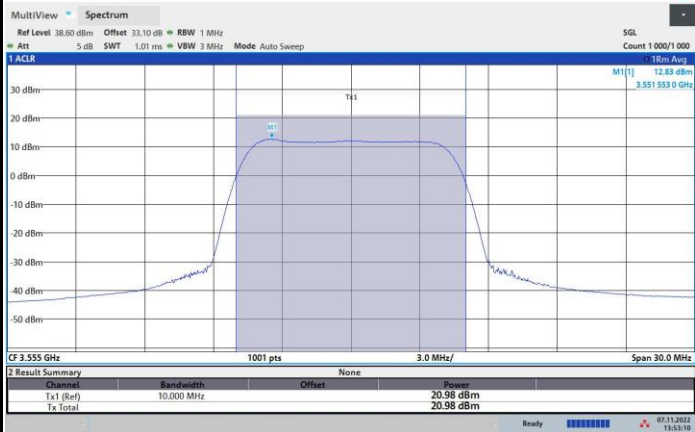
1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 18dBi MIMO antenna gain.



FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

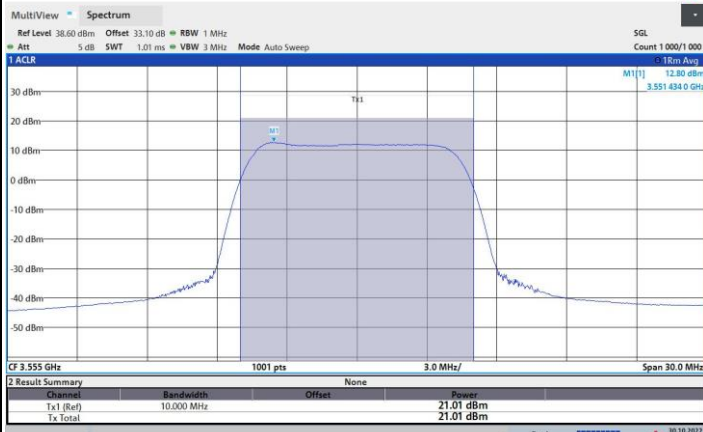
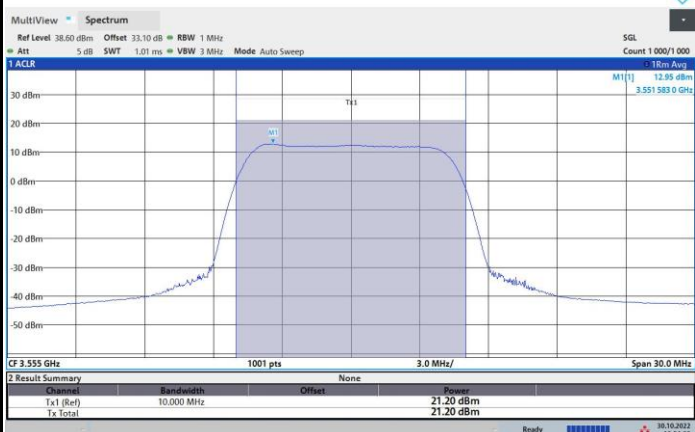
QPSK

16QAM



64QAM

256QAM

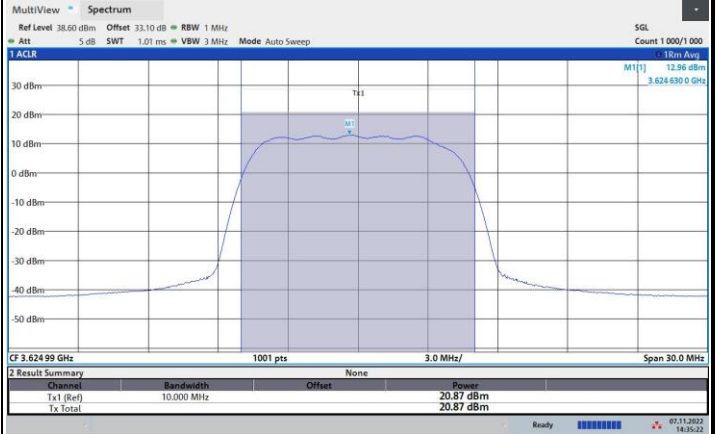
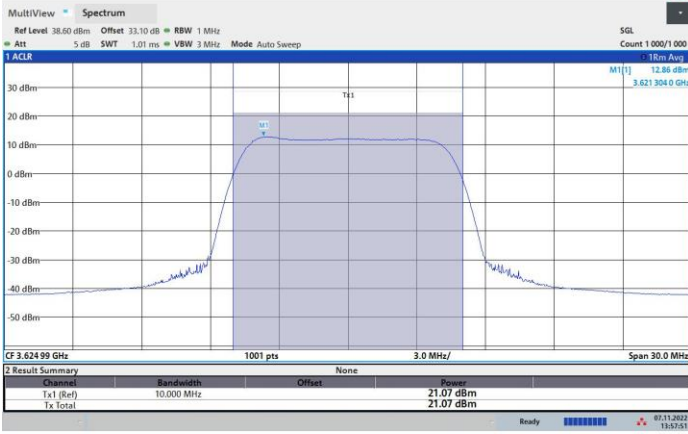




FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

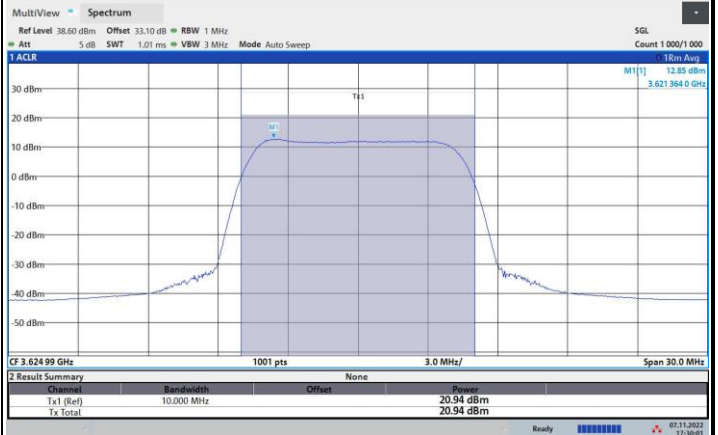
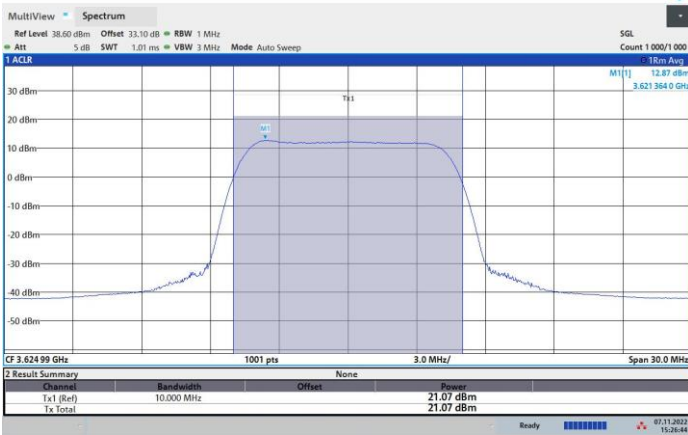
QPSK

16QAM



64QAM

256QAM

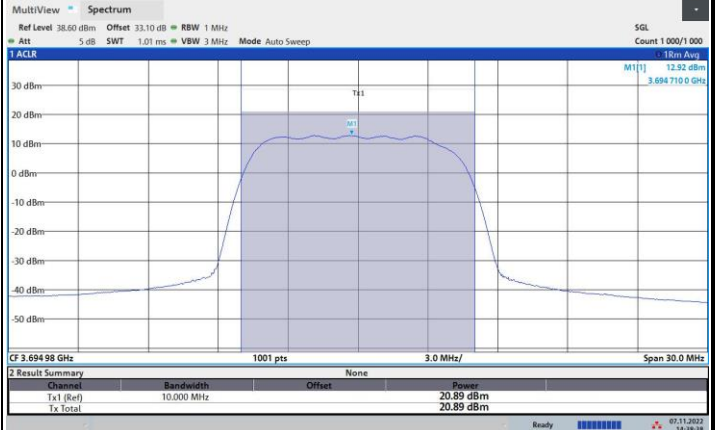
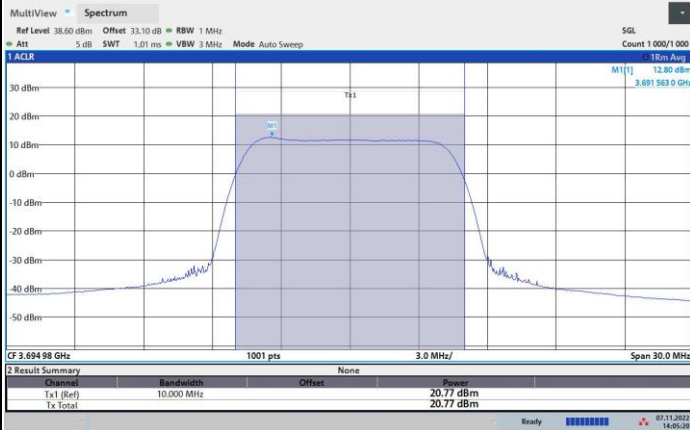




FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

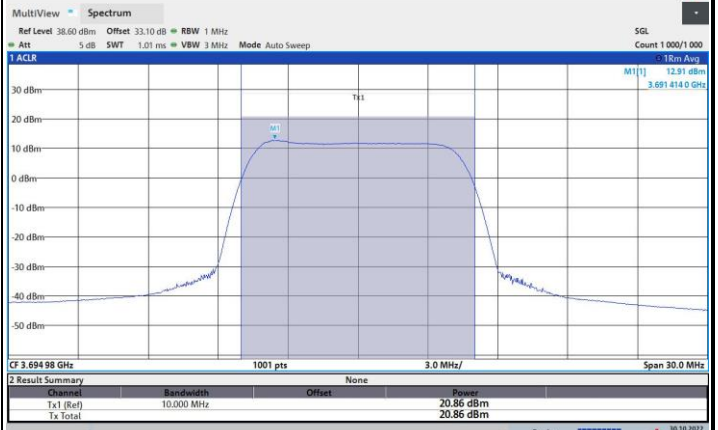
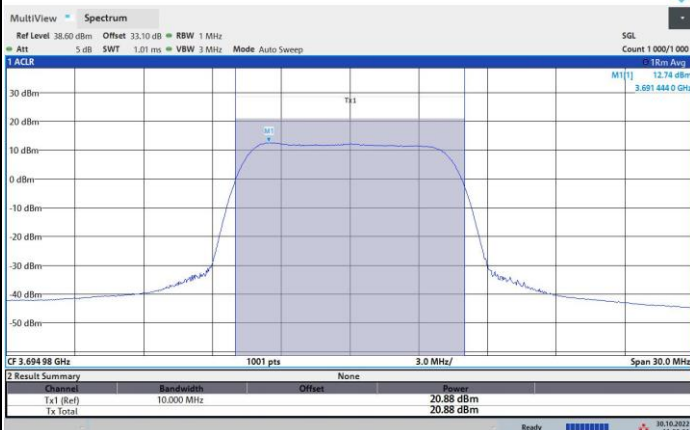
QPSK

16QAM



64QAM

256QAM

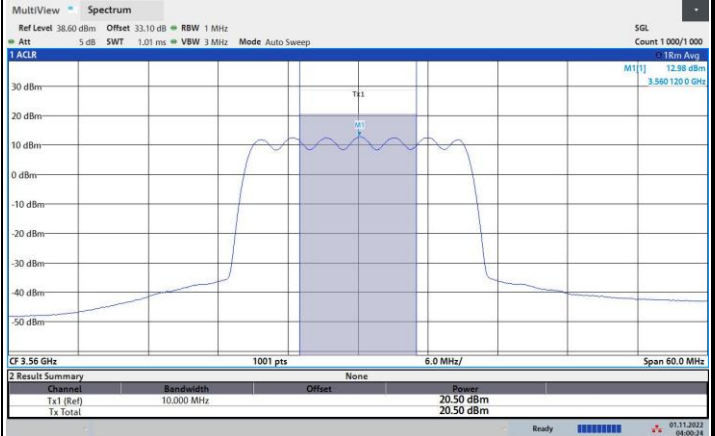
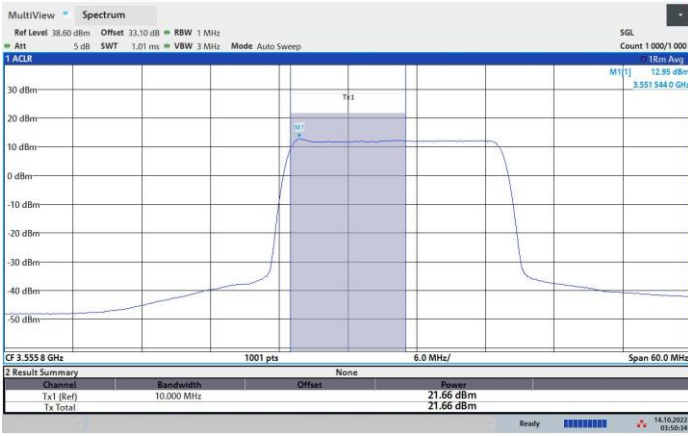




FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

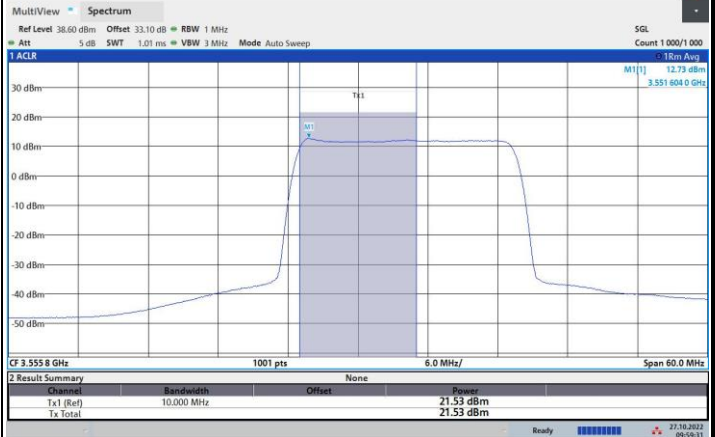
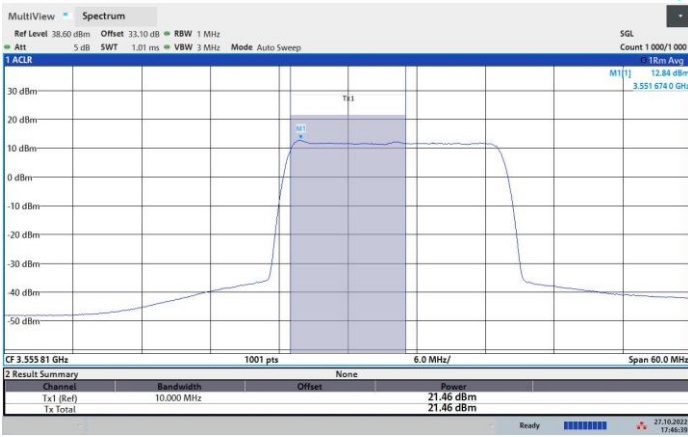
QPSK

16QAM



64QAM

256QAM

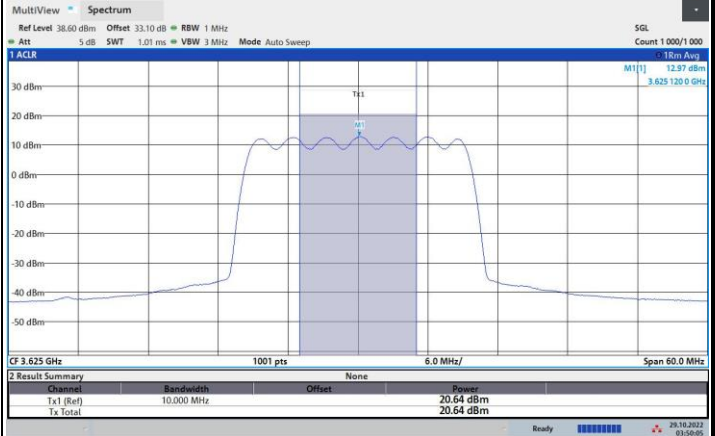
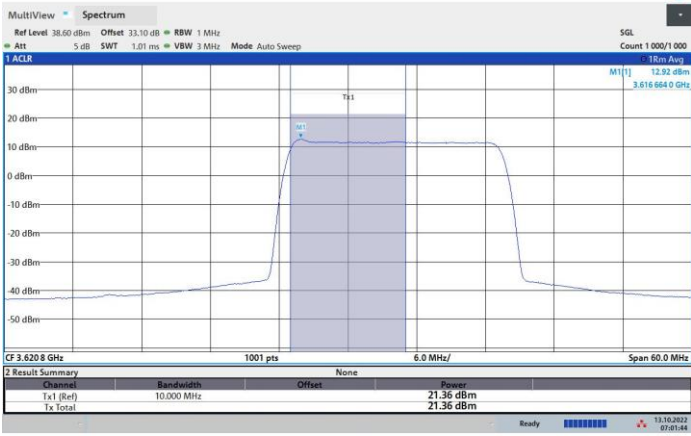




FR1 n48 / 20MHz / Middle Channel / Conducted (dBm/10MHz)

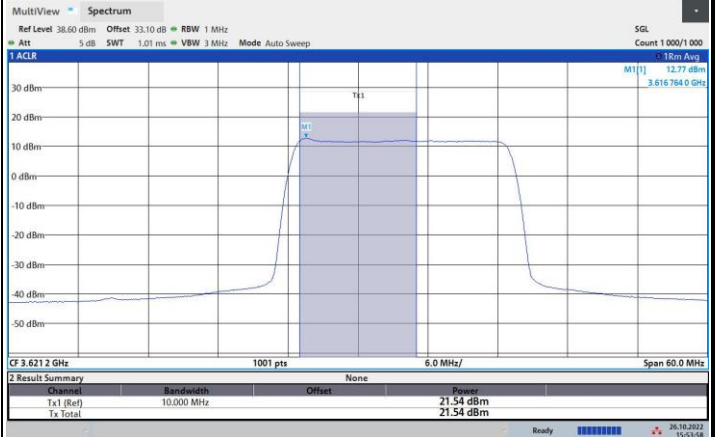
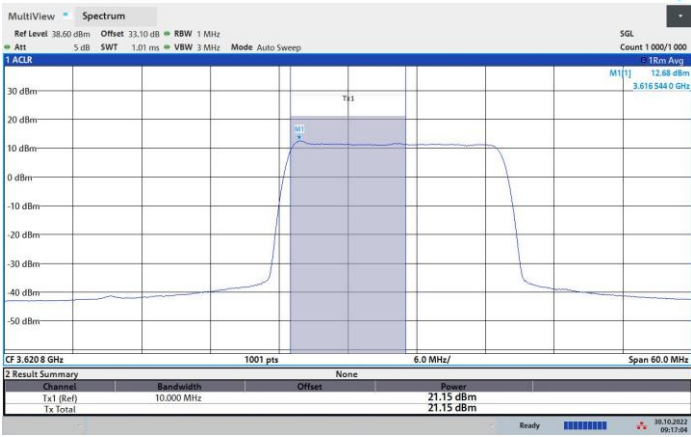
QPSK

16QAM



64QAM

256QAM

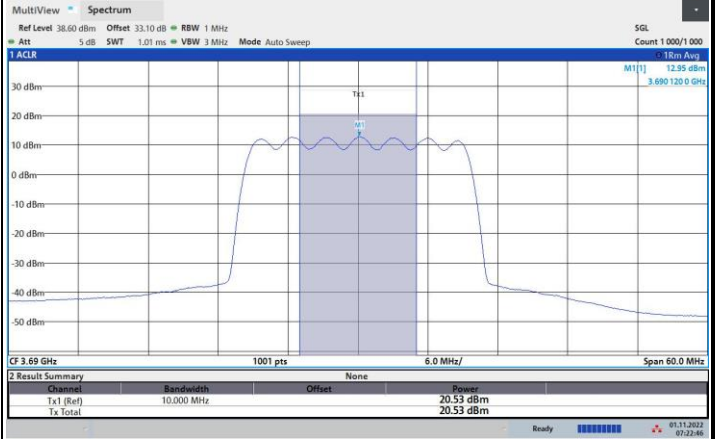
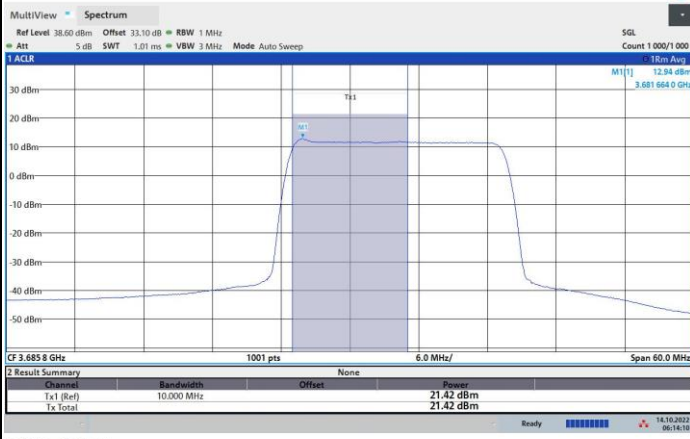




FR1 n48 / 20MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK

16QAM



64QAM

256QAM

