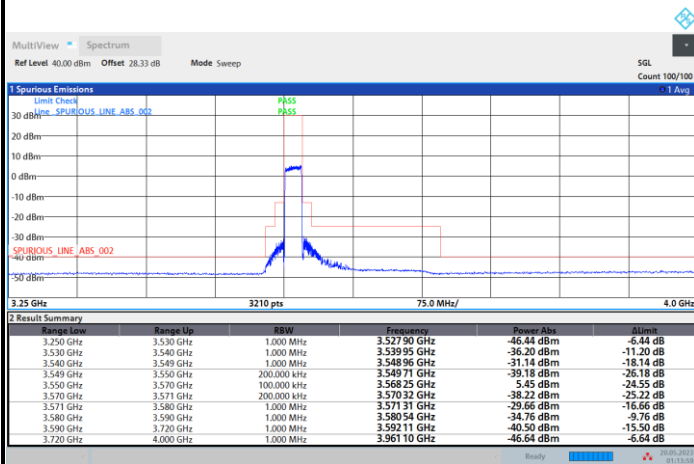




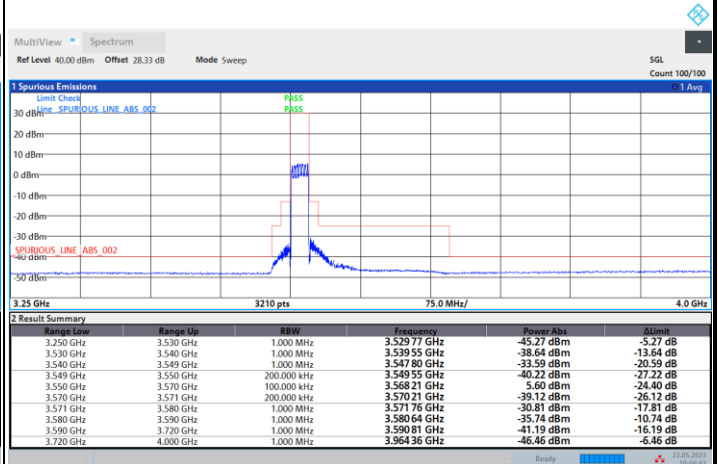
FR1 n48 / 20MHz / Lowest Channel / MASK

QPSK



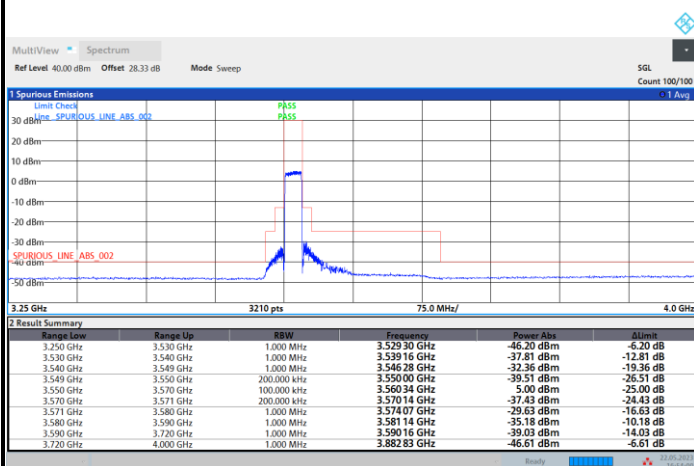
01:13:59 20.05.2023

16QAM



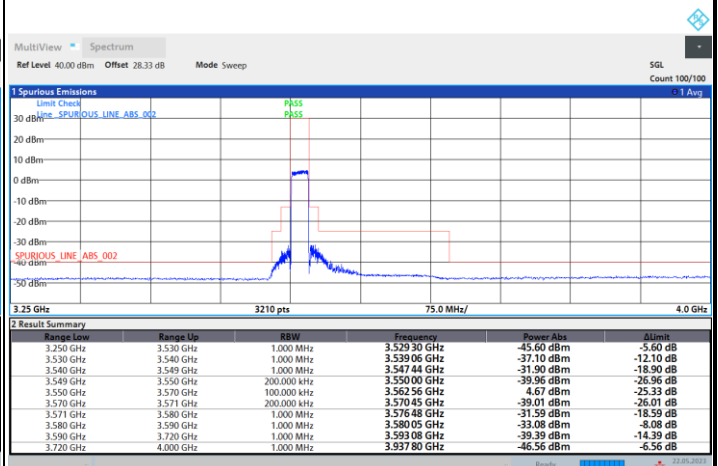
10:56:44 22.05.2023

64QAM



16:54:01 22.05.2023

256QAM

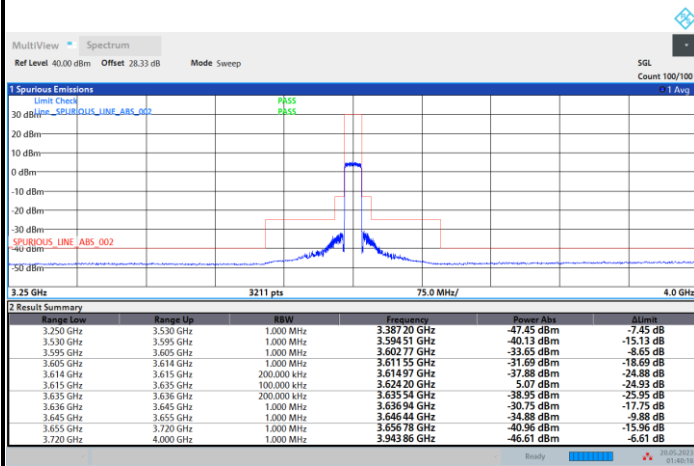


20:48:16 22.05.2023



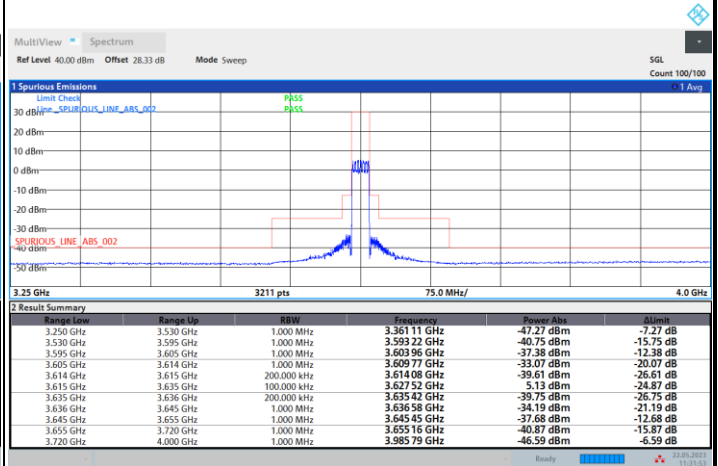
FR1 n48 / 20MHz / Middle Channel / MASK

QPSK



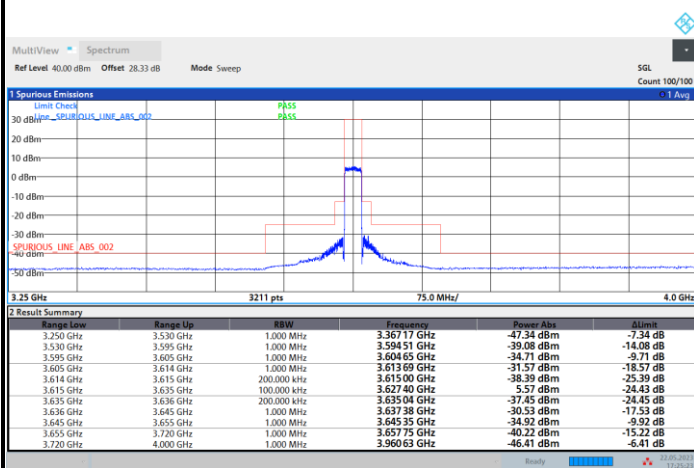
01:40:17 20.05.2023

16QAM



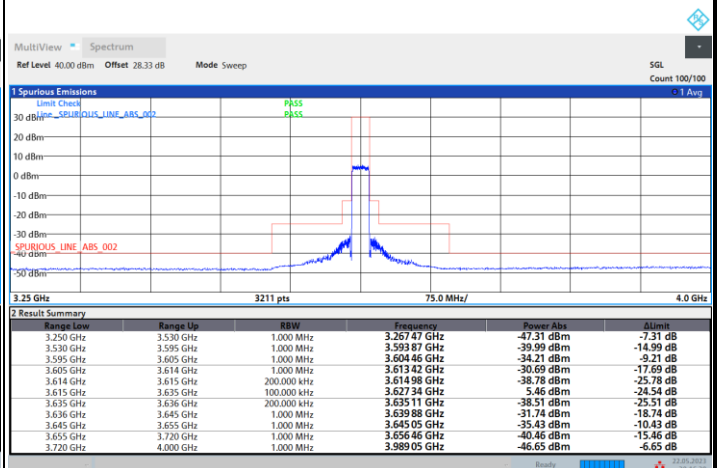
11:13:54 22.05.2023

64QAM



17:25:24 22.05.2023

256QAM

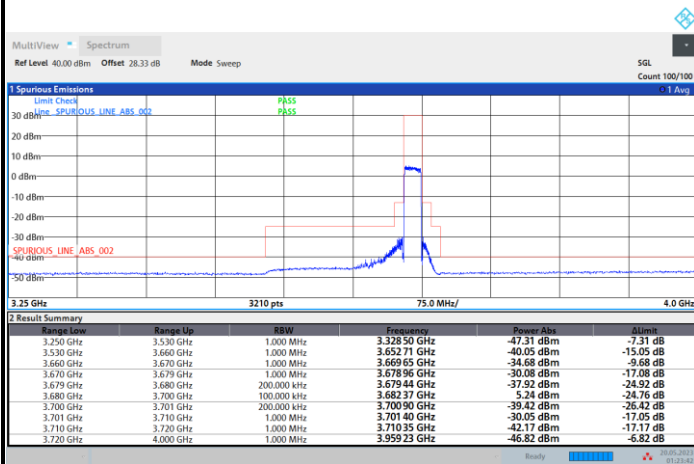


20:16:29 22.05.2023

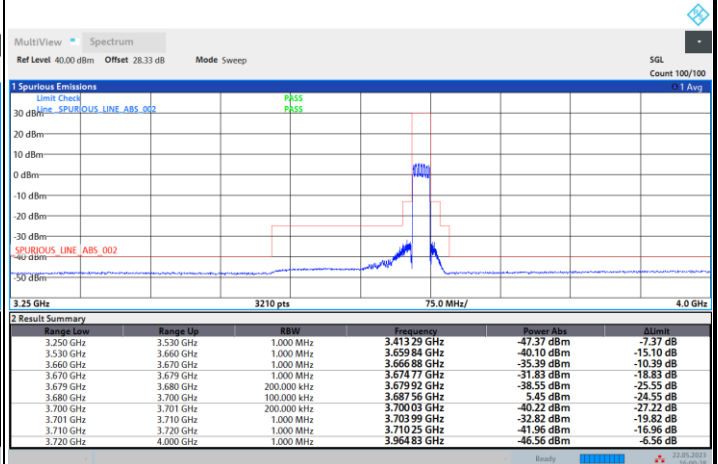


FR1 n48 / 20MHz / Highest Channel / MASK

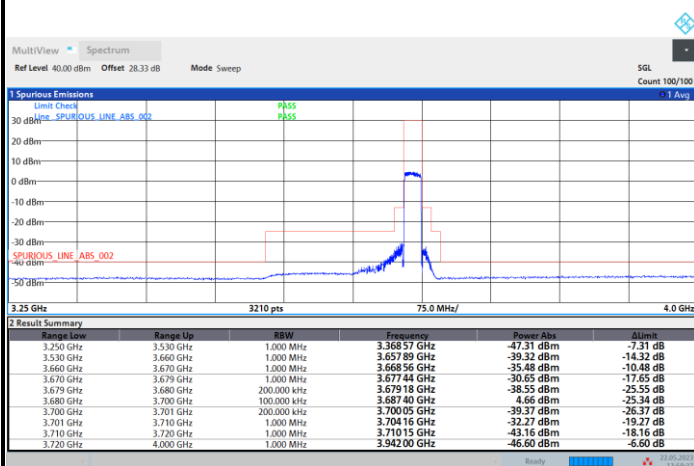
QPSK



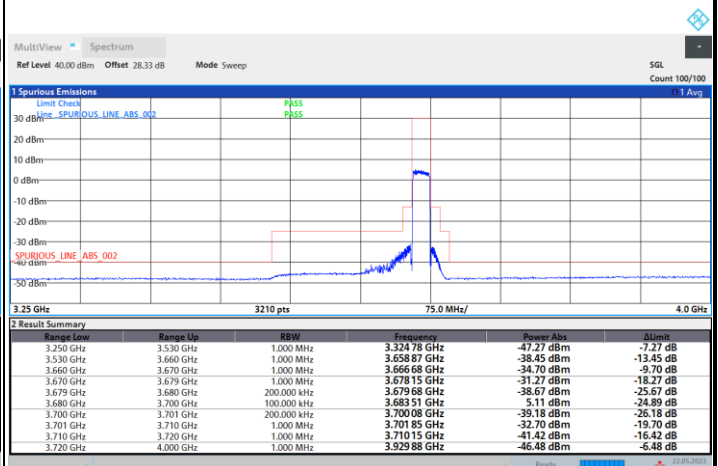
16QAM



64QAM



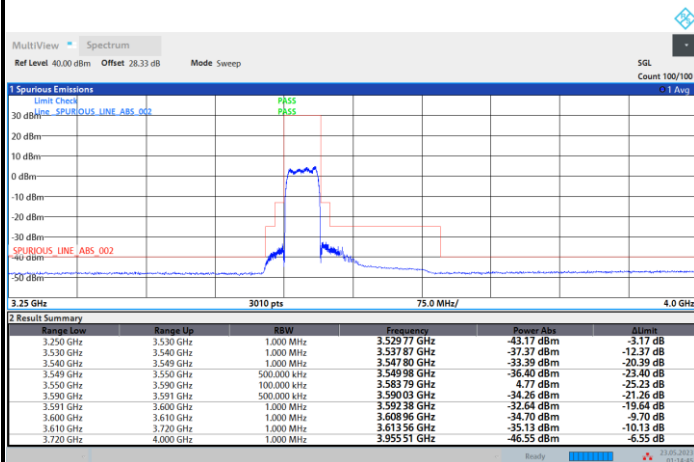
256QAM





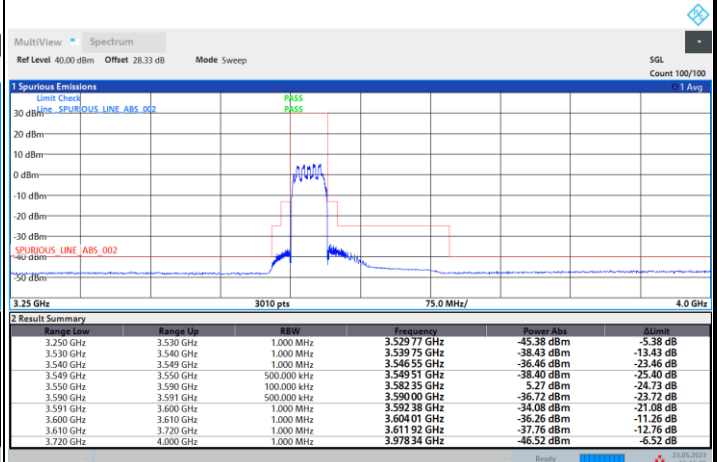
FR1 n48 / 40MHz / Lowest Channel / MASK

QPSK



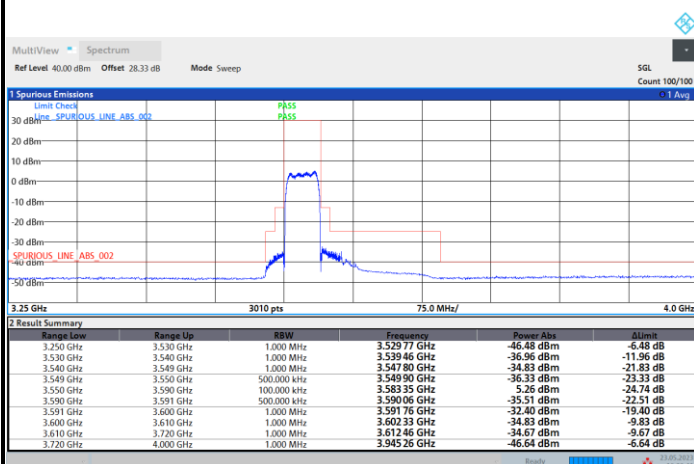
01:14:45 23.05.2023

16QAM



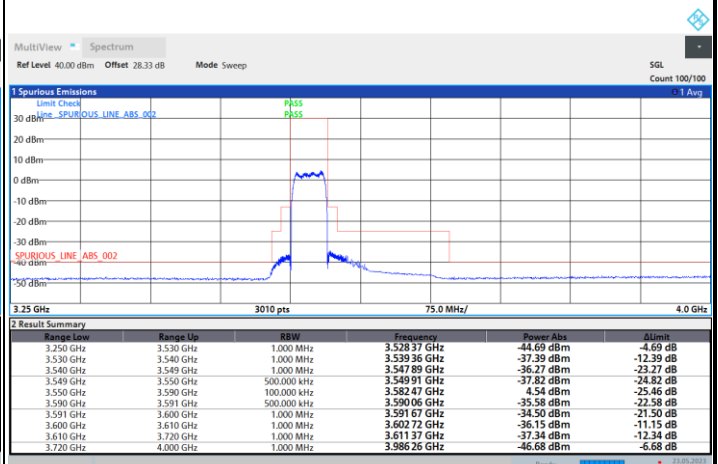
16:16:05 23.05.2023

64QAM



16:23:41 23.05.2023

256QAM

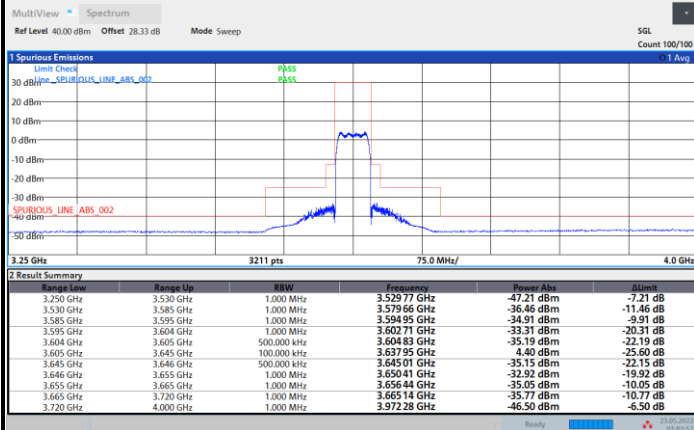


19:50:15 23.05.2023



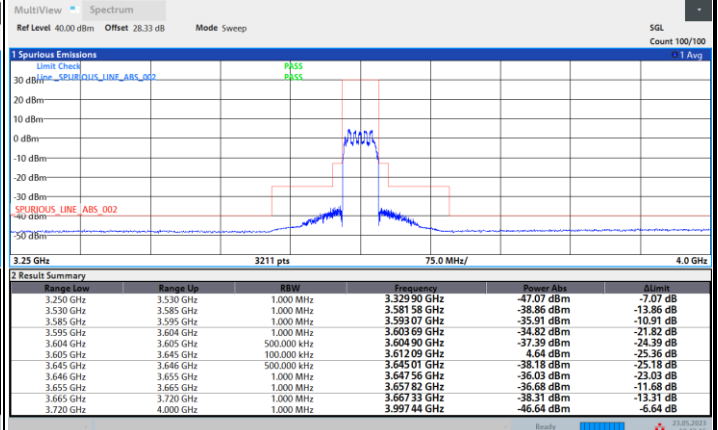
FR1 n48 / 40MHz / Middle Channel / MASK

QPSK



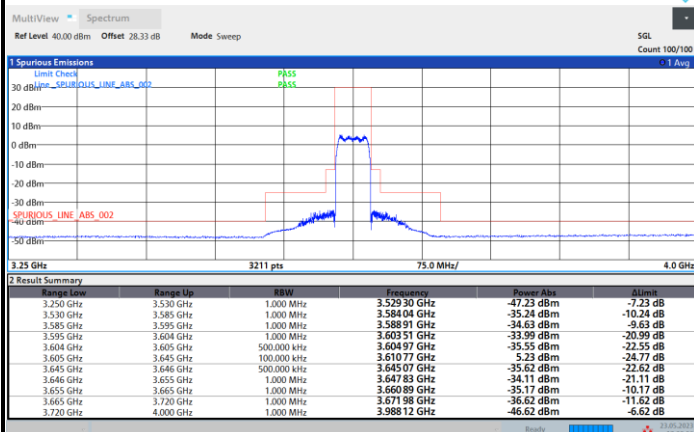
02:02:52 23.05.2023

16QAM



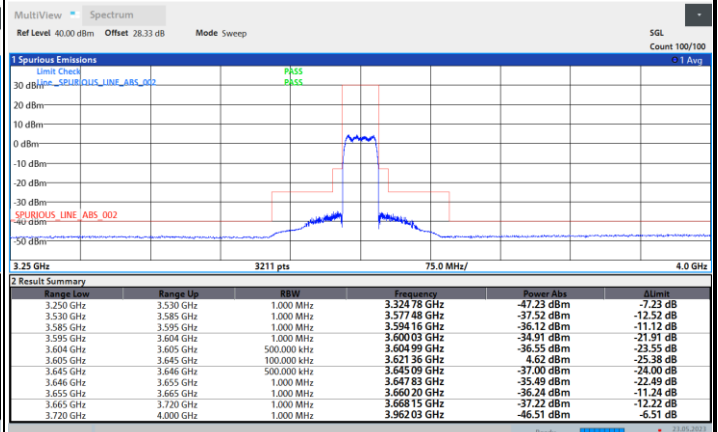
10:42:15 23.05.2023

64QAM



17:28:57 23.05.2023

256QAM

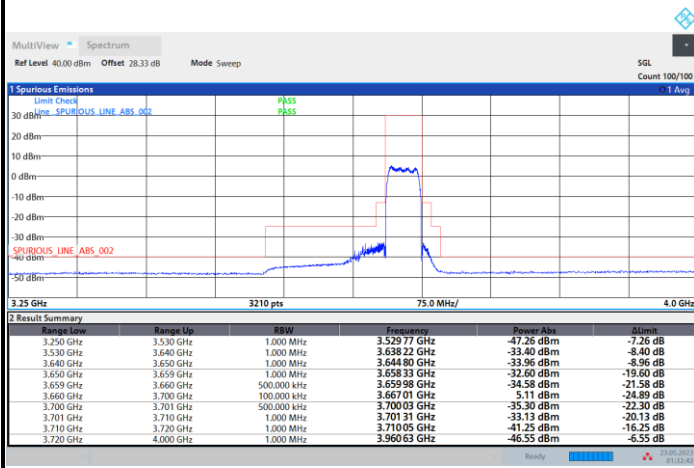


20:25:54 23.05.2023



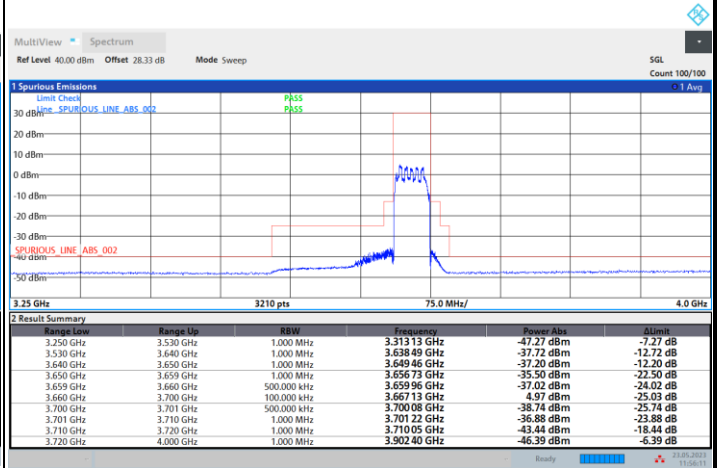
FR1 n48 / 40MHz / Highest Channel / MASK

QPSK



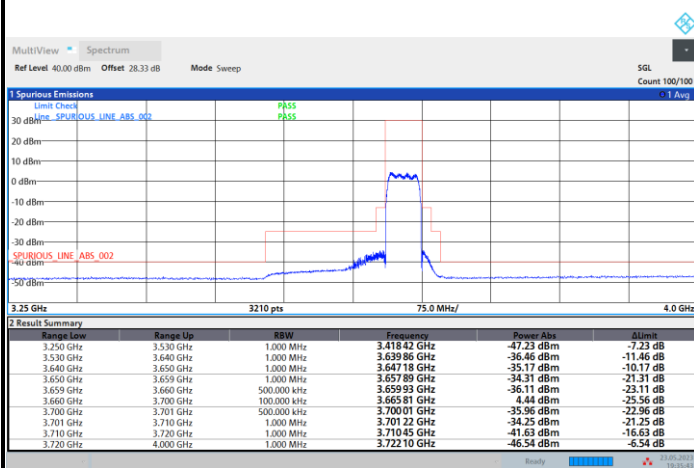
01:32:43 23.05.2023

16QAM



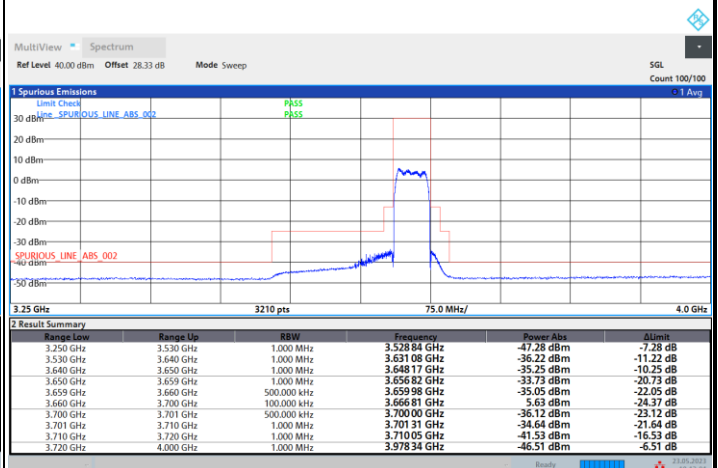
11:56:12 23.05.2023

64QAM



19:35:43 23.05.2023

256QAM

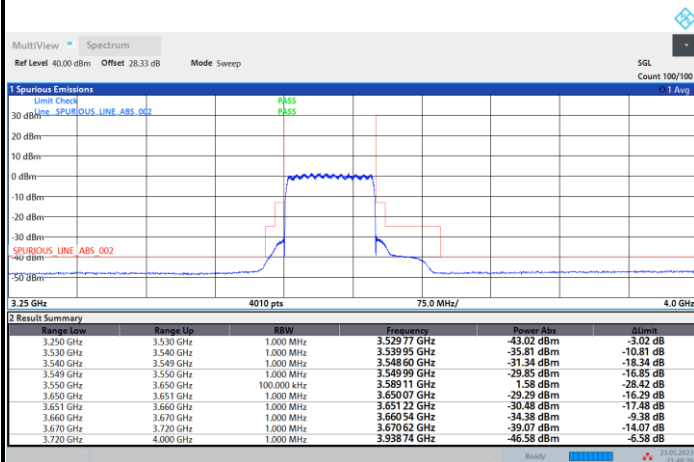


19:13:05 23.05.2023



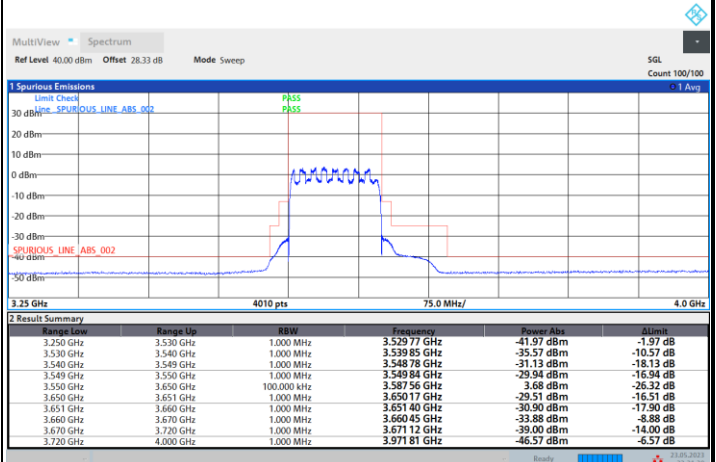
FR1 n48 / 100MHz / Lowest Channel / MASK

QPSK



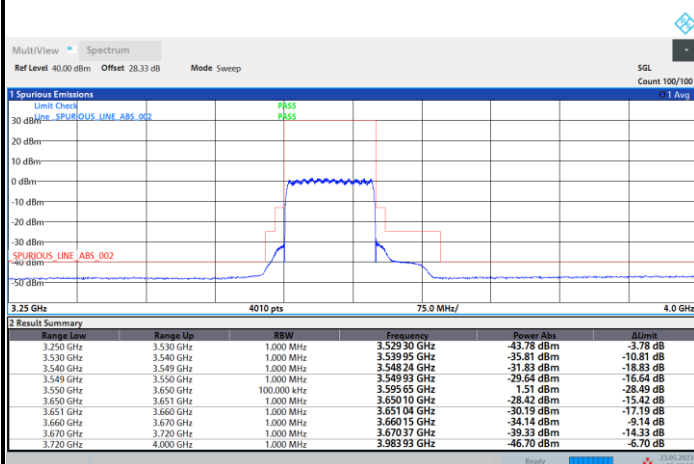
21:48:27 23.05.2023

16QAM



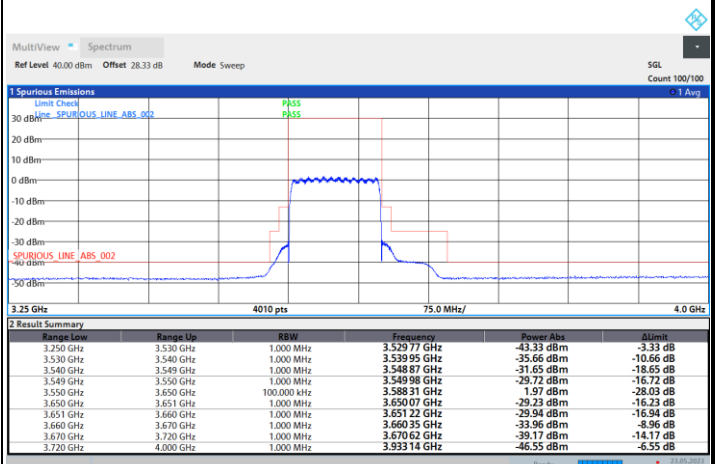
22:21:21 23.05.2023

64QAM



22:47:05 23.05.2023

256QAM

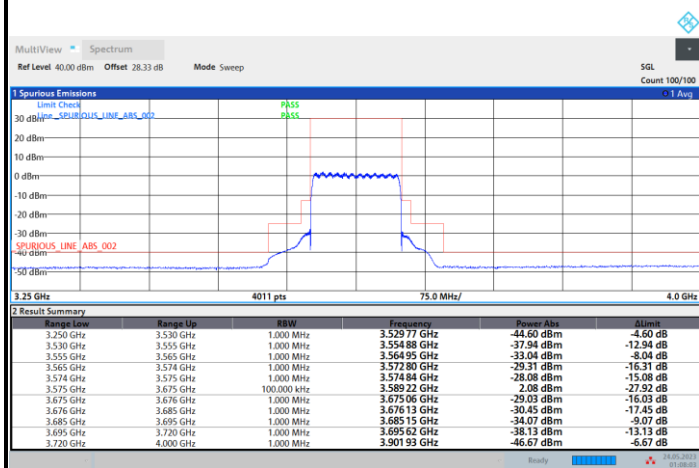


23:12:30 23.05.2023



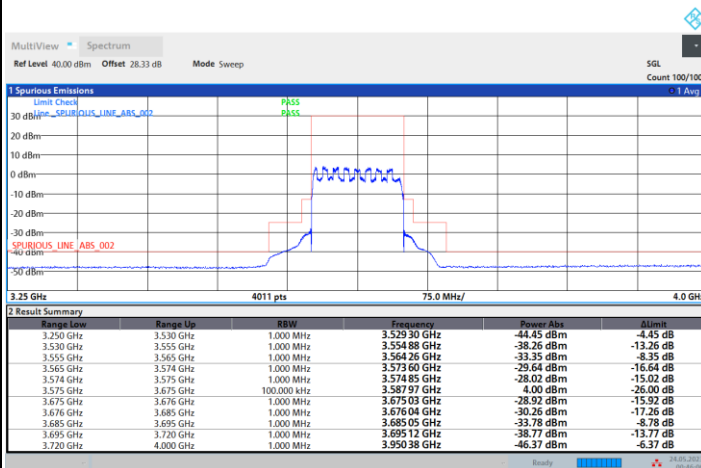
FR1 n48 / 100MHz / Middle Channel / MASK

QPSK



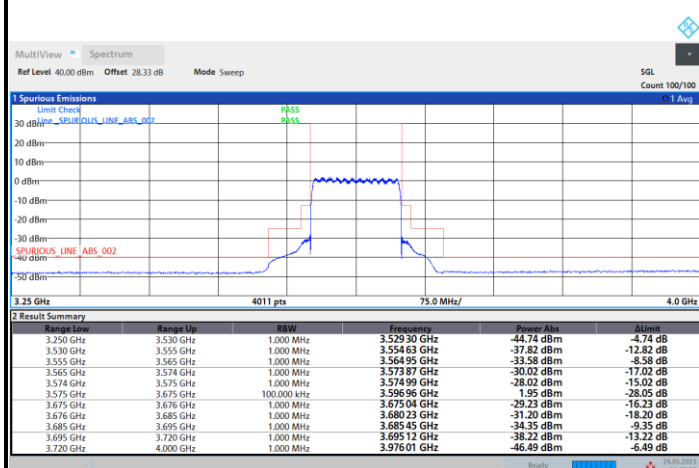
01:08:04 24.05.2023

16QAM



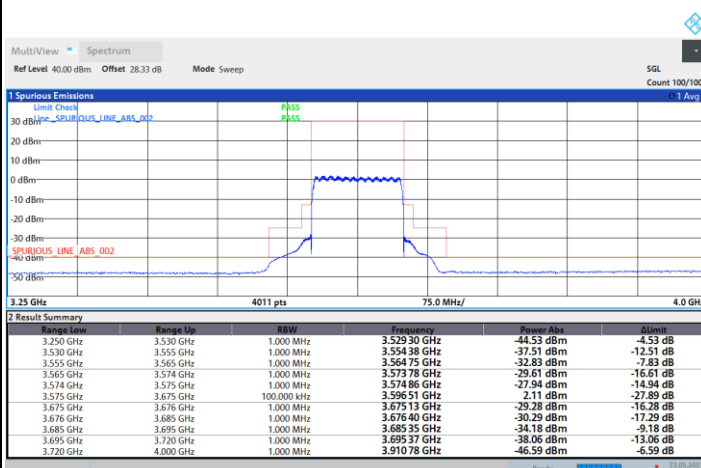
00:46:06 24.05.2023

64QAM



00:08:00 24.05.2023

256QAM

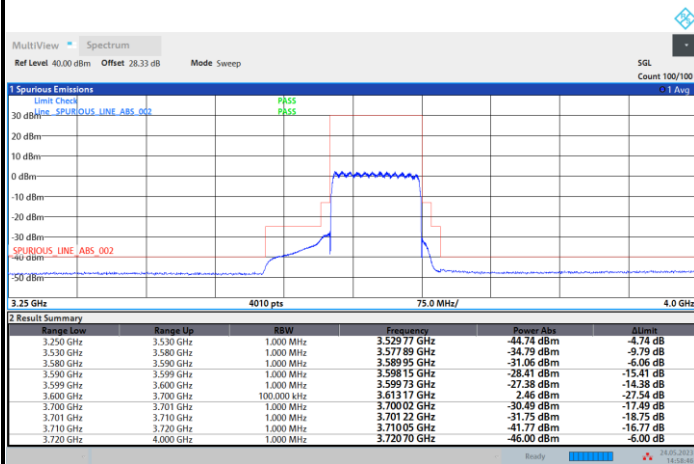


23:39:34 23.05.2023

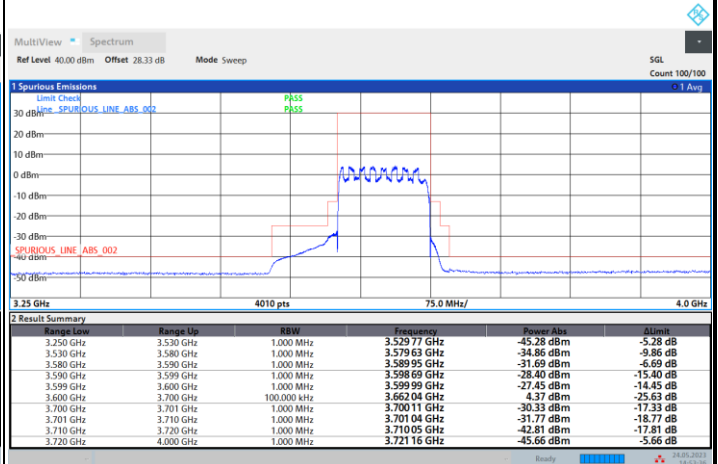


FR1 n48 / 100MHz / Highest Channel / MASK

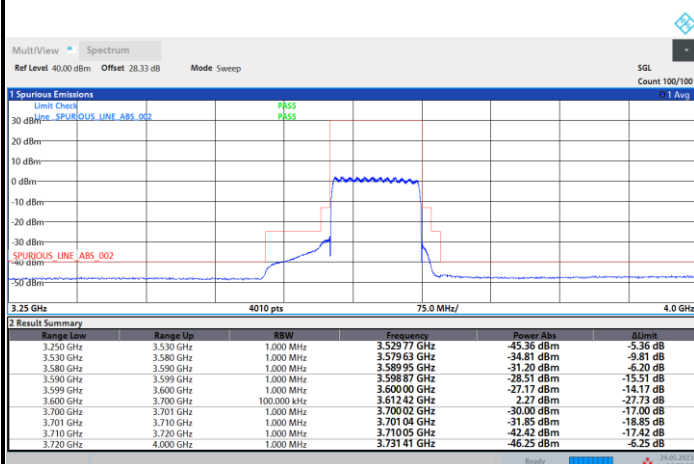
QPSK



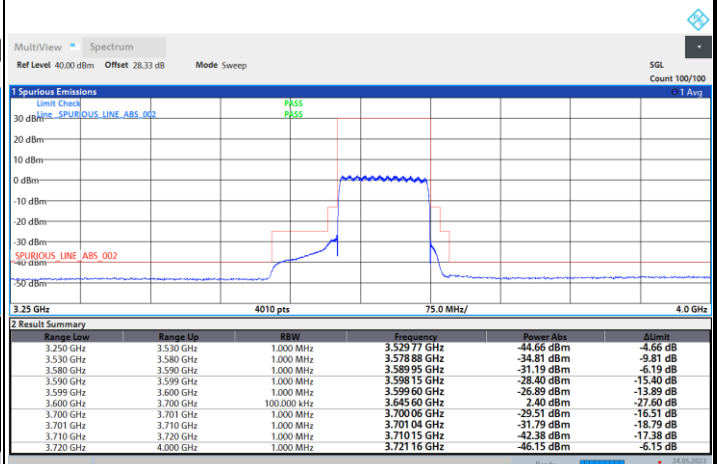
16QAM



64QAM



256QAM

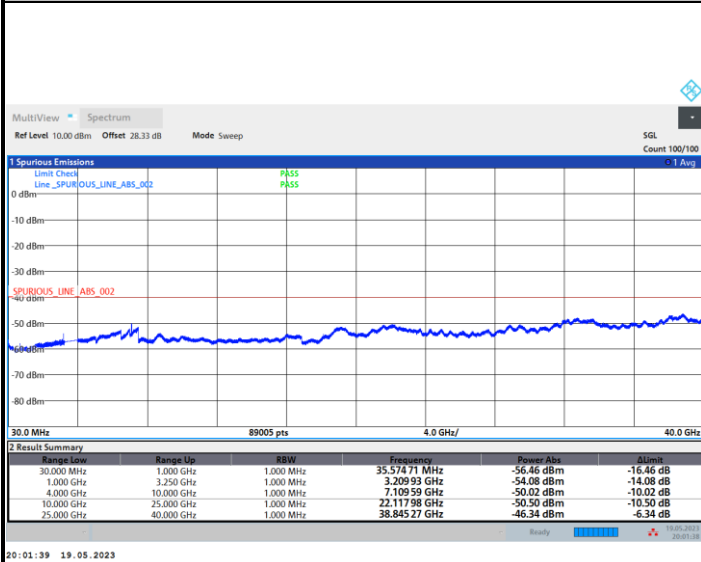




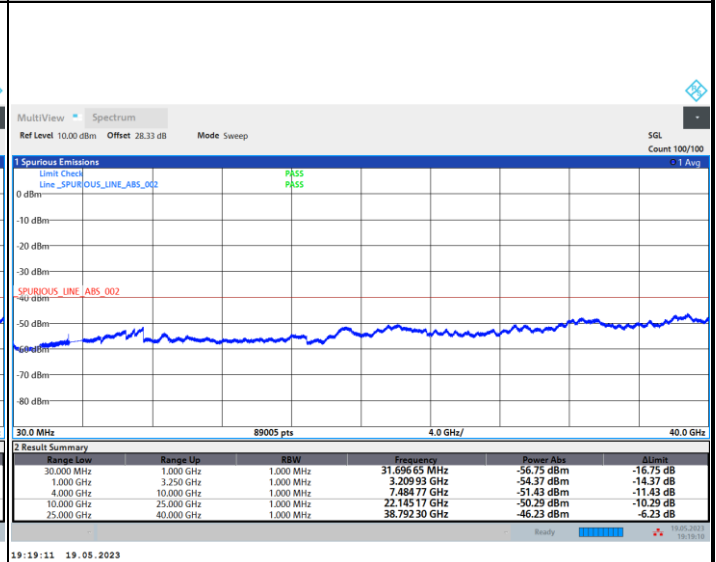
Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

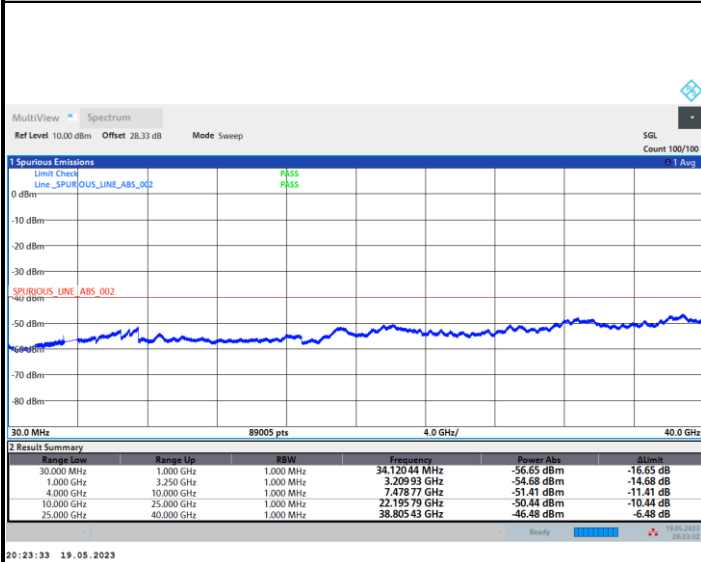
Lowest Channel



Middle Channel



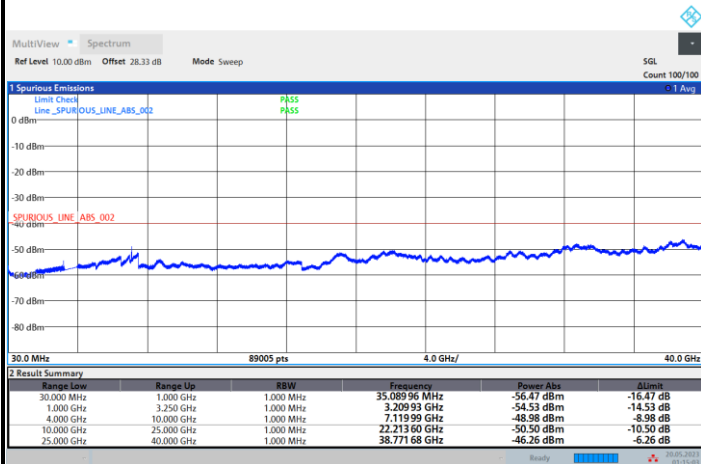
Highest Channel



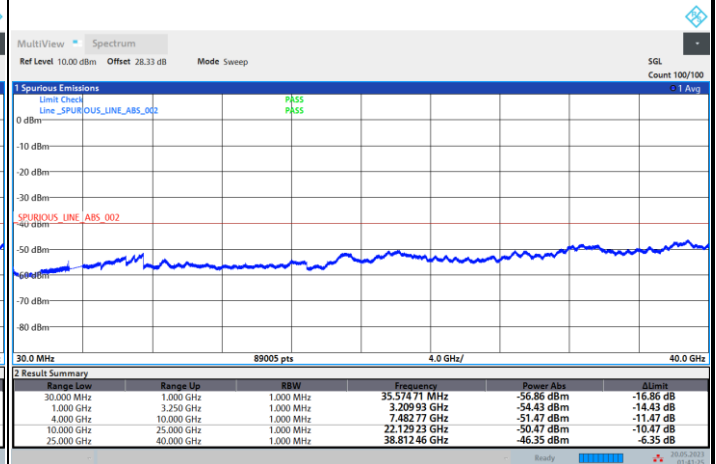


FR1 n48 / 20MHz / QPSK / CSE

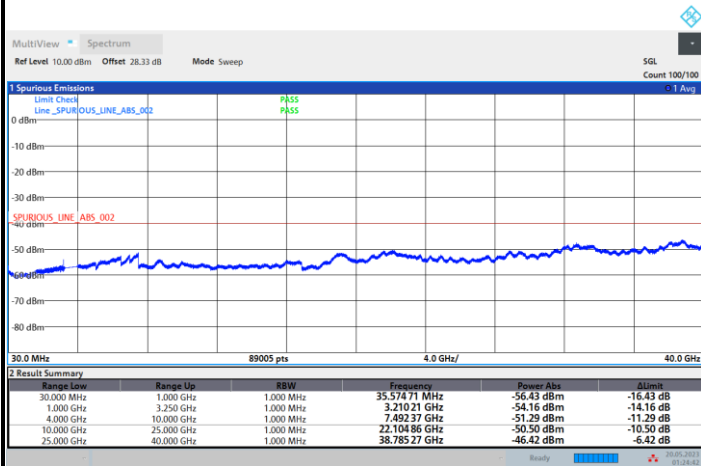
Lowest Channel



Middle Channel



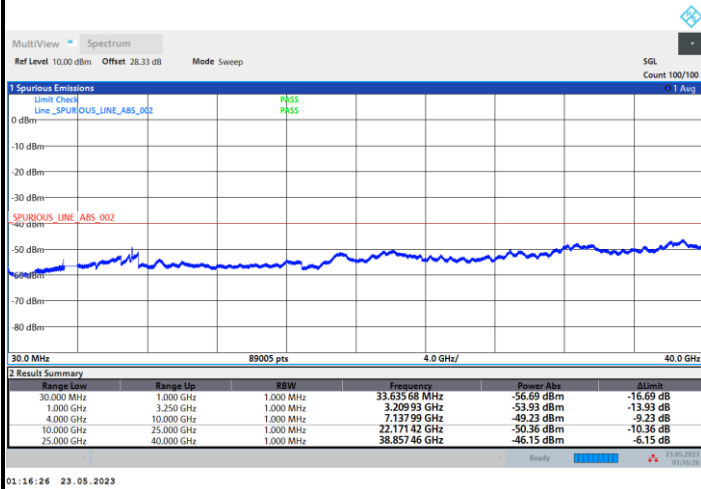
Highest Channel



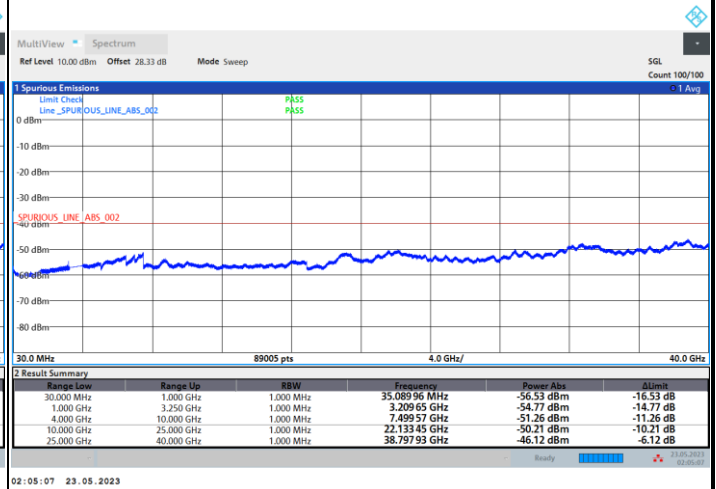


FR1 n48 / 40MHz / QPSK / CSE

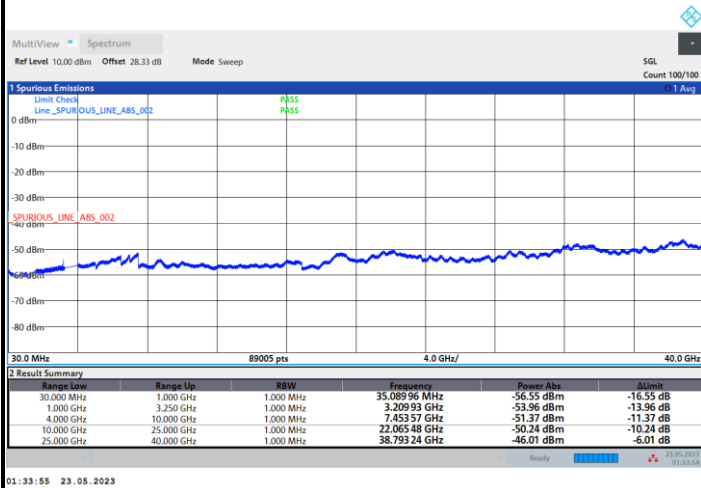
Lowest Channel



Middle Channel



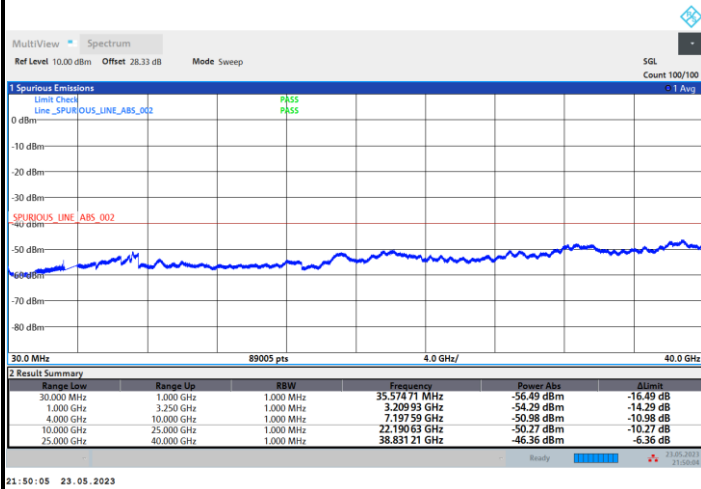
Highest Channel



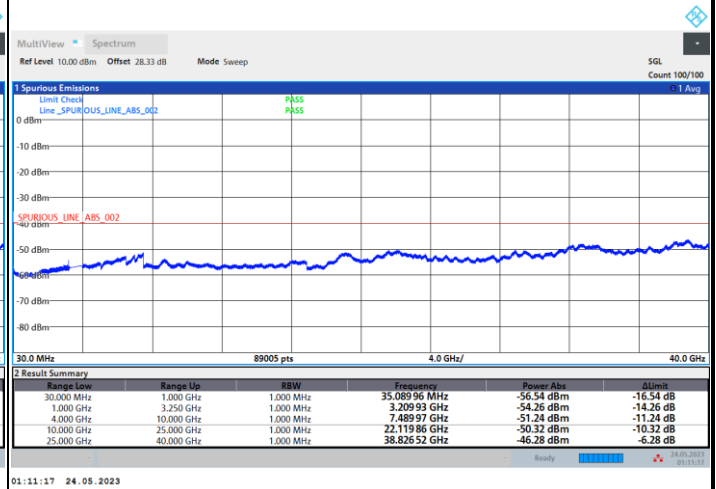


FR1 n48 / 100MHz / QPSK / CSE

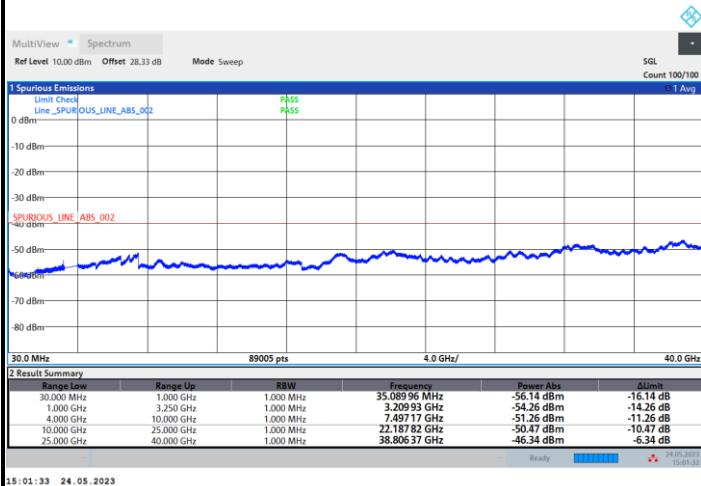
Lowest Channel



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	0.0000	PASS
40	Normal Voltage	0.7172	
30	Normal Voltage	0.1655	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0552	
0	Normal Voltage	0.2759	
-10	Normal Voltage	0.1103	
-20	Normal Voltage	0.3310	
-30	Normal Voltage	0.3862	
20	Maximum Voltage	1.1586	
20	Normal Voltage	0.6069	
20	Minimum Voltage	1.1476	

Note:

1. Normal Voltage = 12 V. ; Minimum Voltage = 11.2 V. ; Maximum Voltage = 13.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n48 Conducted Test Items

<MIMO ANT 4>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	16.02	15.71	17.61	16.27	17.28	16.10	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	16.31	16.59	17.56	17.68	16.98	17.41	-	-
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	-	14.21	14.95
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	-	-	14.24	14.26

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	27.34	27.03	28.93	27.59	28.60	27.42	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	27.63	27.91	28.88	29.00	28.30	28.73	-	-
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	-	25.53	26.27
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	-	-	25.56	25.58
Limit	30dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 5.3dBi MIMO antenna gain.

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Middle Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	16.54	15.99	17.95	16.35	17.22	16.10	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	16.84	16.33	17.55	17.52	17.33	17.04	-	-
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	14.70	14.76
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	14.20	14.18

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.86	27.31	29.27	27.67	28.54	27.42	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.16	27.65	28.87	28.84	28.65	28.06	-	-
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	26.02	26.08
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	25.52	25.50
Limit	30dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 5.3dBi MIMO antenna gain.

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	16.11	15.61	18.05	16.48	16.86	15.87	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	16.00	16.06	17.98	17.98	16.94	16.83	-	-
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	-	-	-	-	-	-	14.11	14.69
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	-	-	-	-	-	-	14.07	14.08

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	27.43	26.93	29.37	27.80	28.18	27.19	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	27.32	27.38	29.30	29.30	28.26	27.85	-	-
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	-	-	-	-	-	-	25.43	26.01
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	-	-	-	-	-	-	25.39	25.40
Limit	30dBm/10MHz							
Result	PASS							

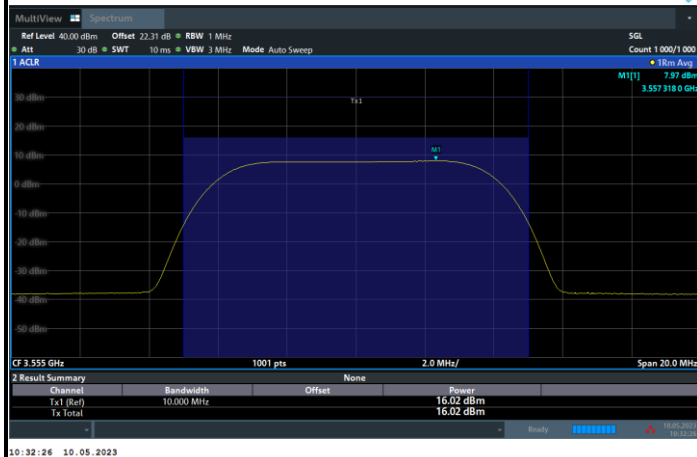
Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 5.3dBi MIMO antenna gain.

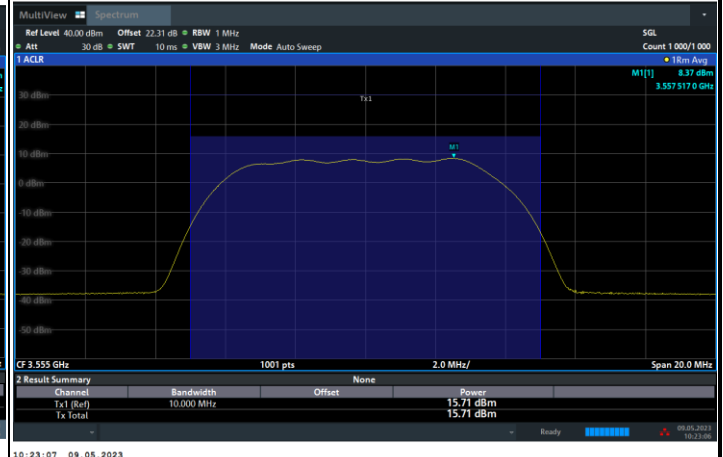


FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

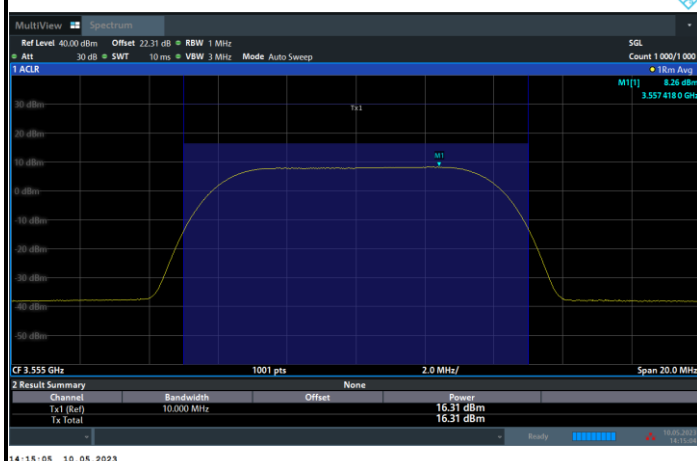
QPSK



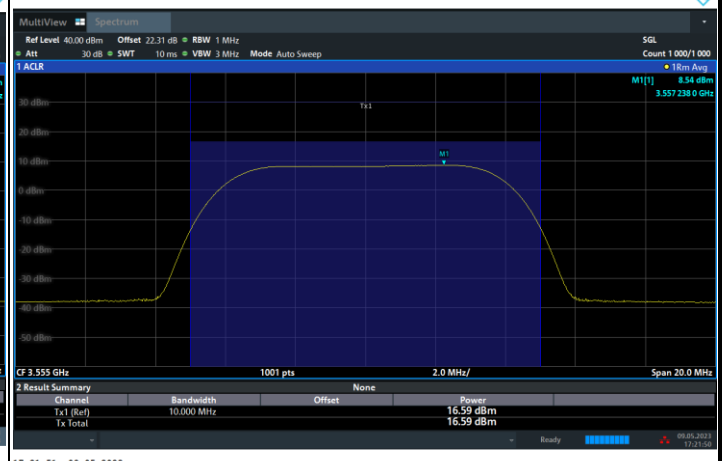
16QAM



64QAM



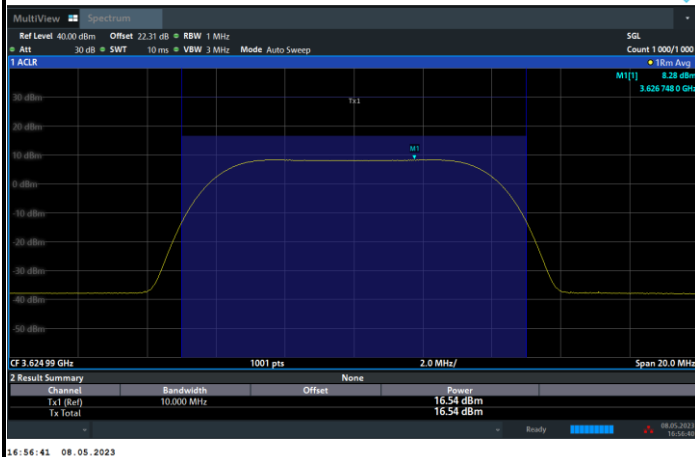
256QAM



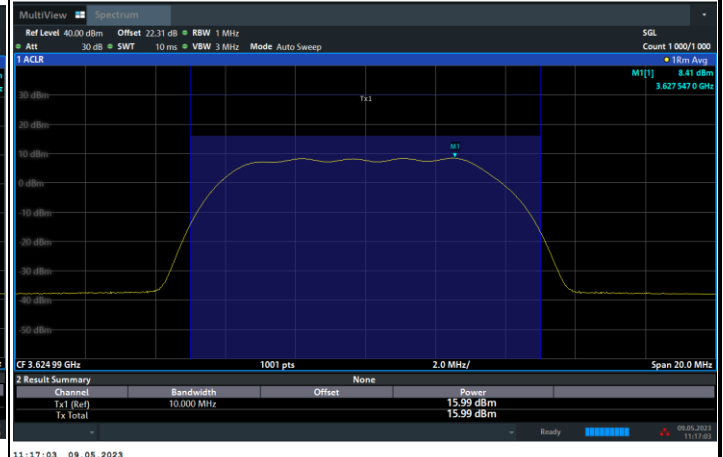


FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

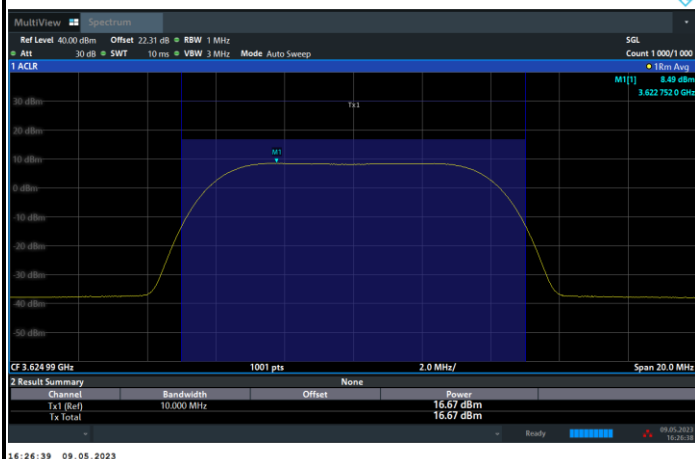
QPSK



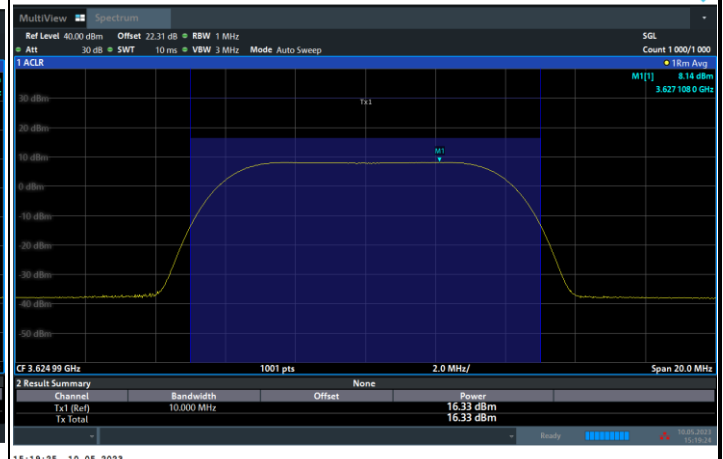
16QAM



64QAM



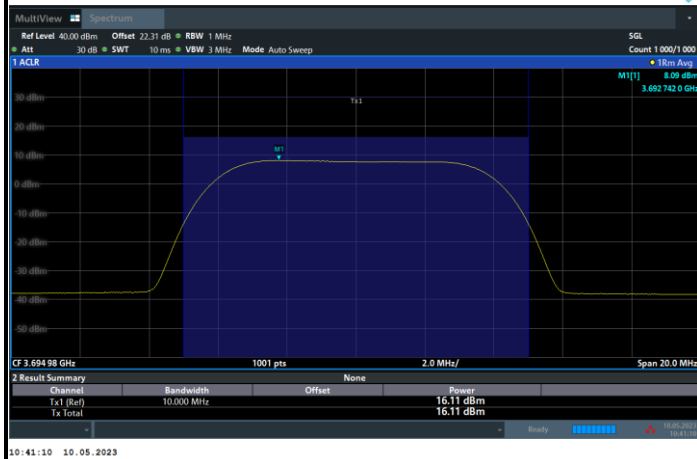
256QAM



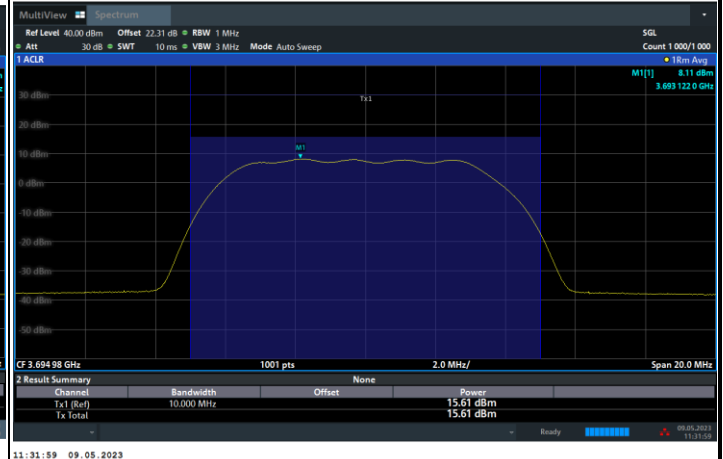


FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

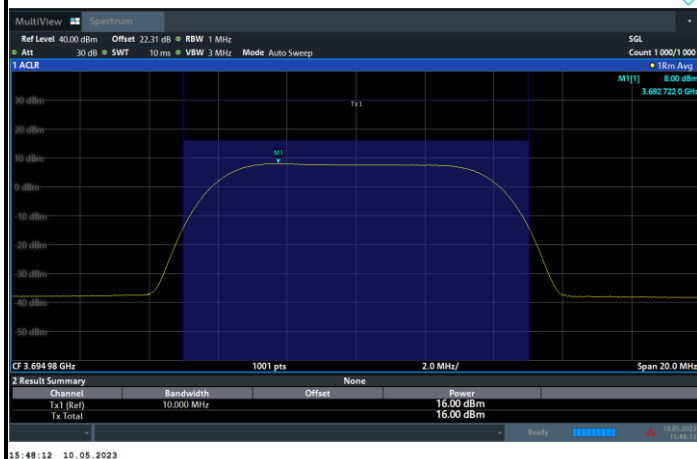
QPSK



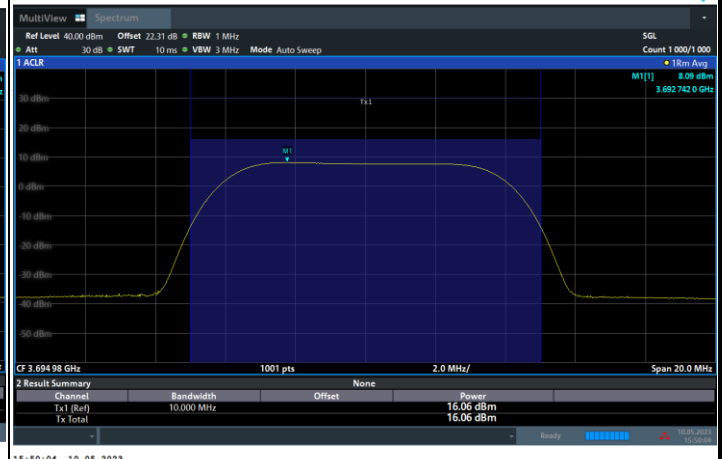
16QAM



64QAM



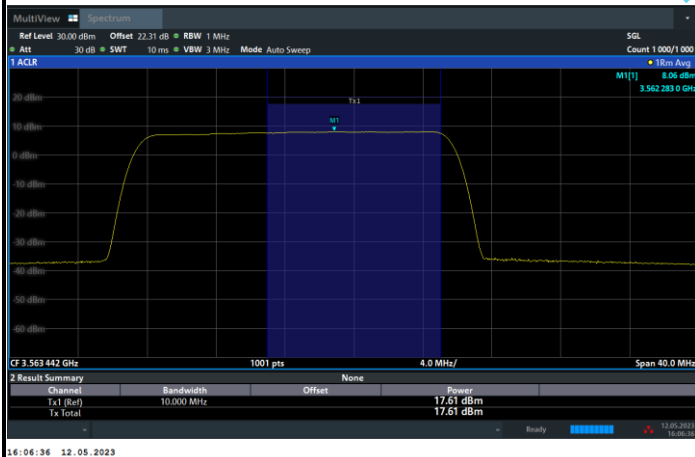
256QAM





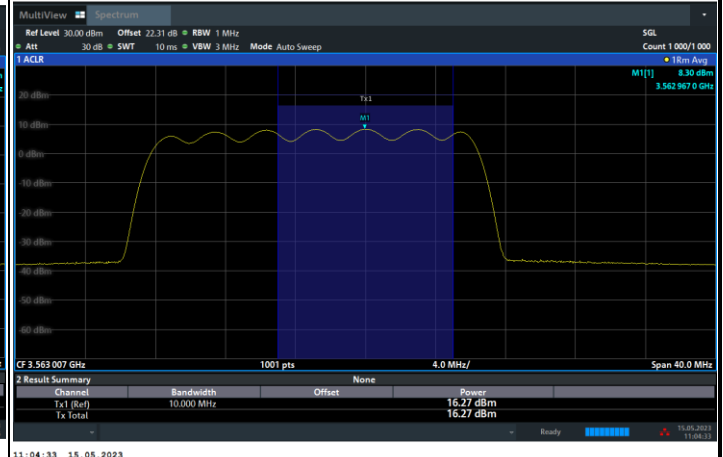
FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



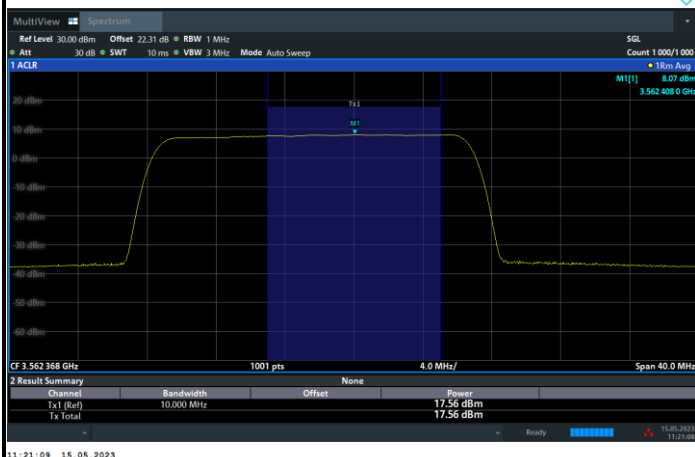
16:06:36 12.05.2023

16QAM



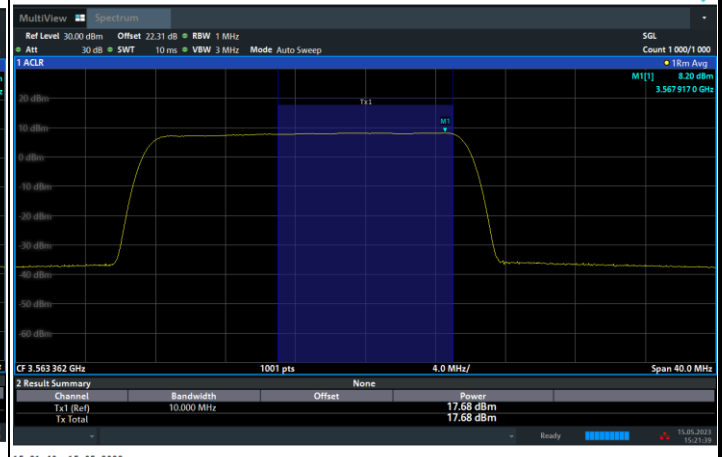
11:04:33 15.05.2023

64QAM



11:21:09 15.05.2023

256QAM

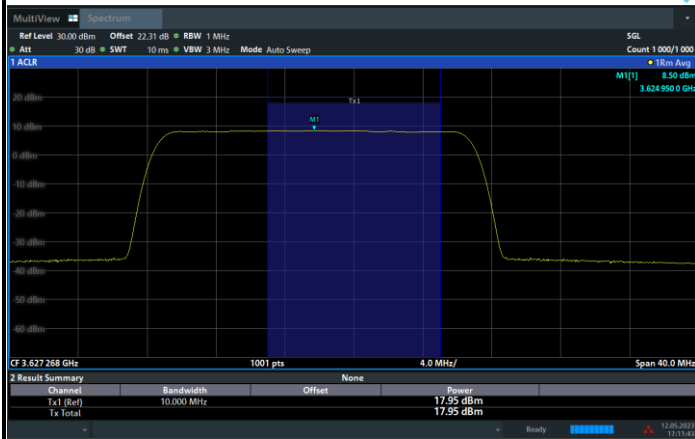


15:21:40 15.05.2023



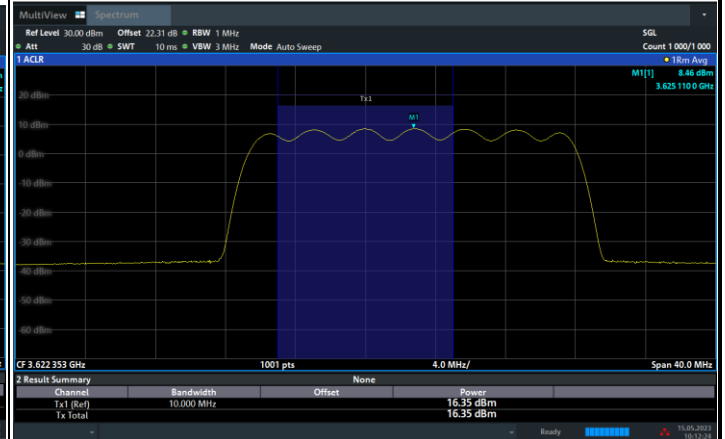
FR1 n48 / 20MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



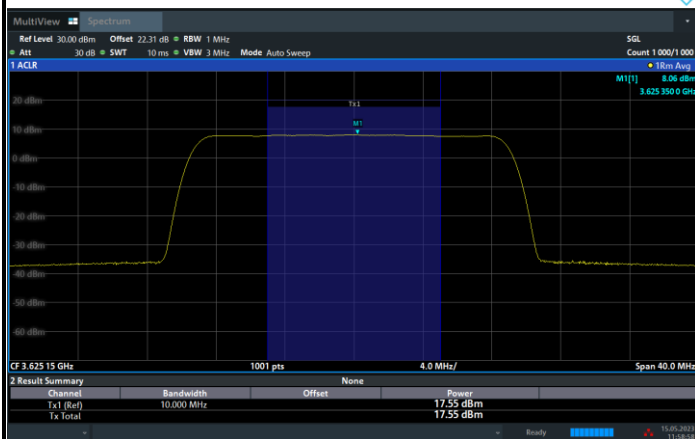
17:11:43 12.05.2023

16QAM



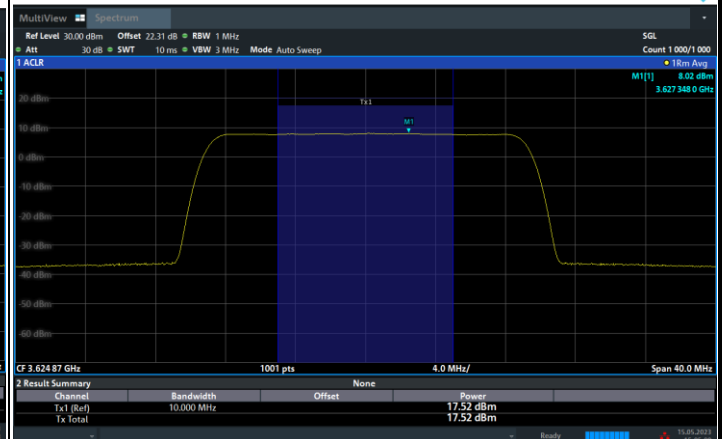
10:12:24 15.05.2023

64QAM



11:58:59 15.05.2023

256QAM

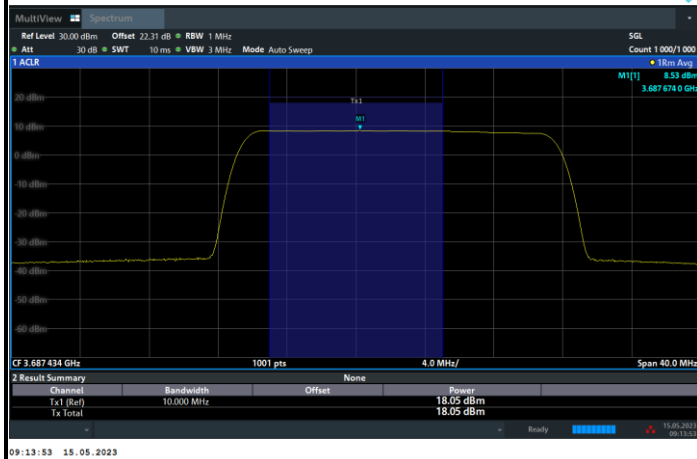


15:05:10 15.05.2023

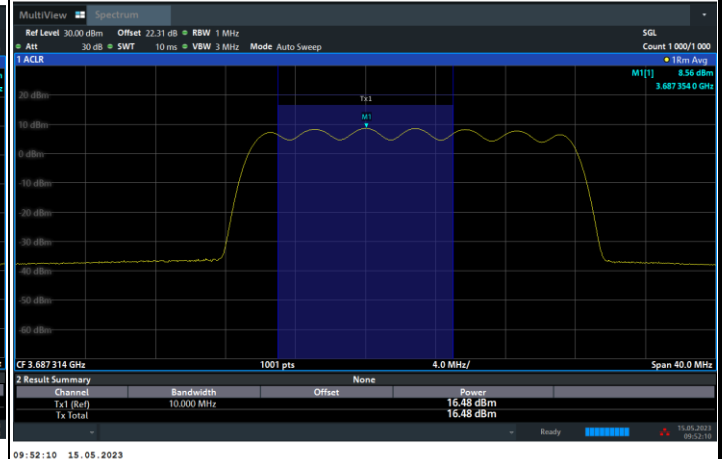


FR1 n48 / 20MHz / Highest Channel / Conducted (dBm/10MHz)

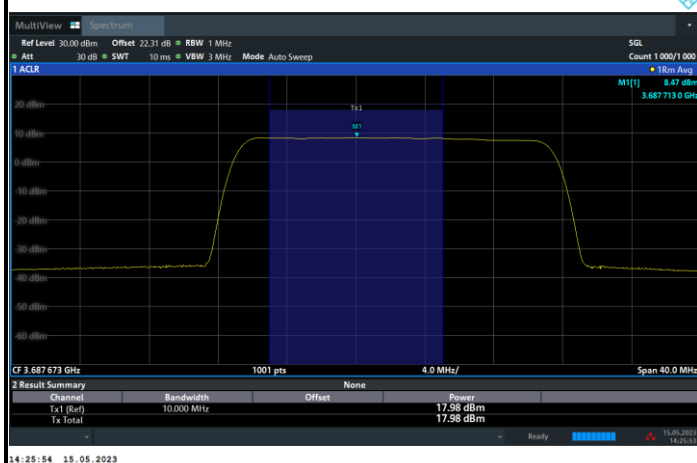
QPSK



16QAM



64QAM



256QAM

