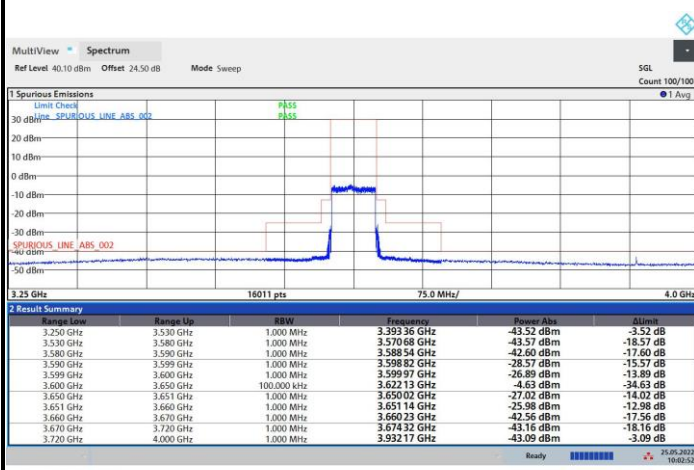




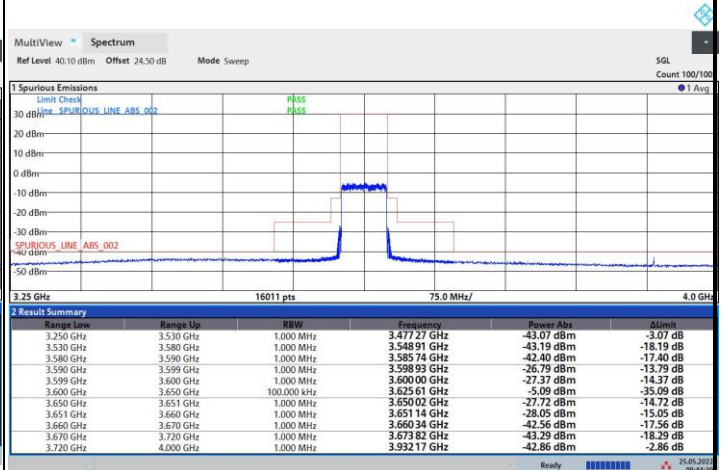
FR1 n48 / 50MHz / Middle Channel / MASK

QPSK



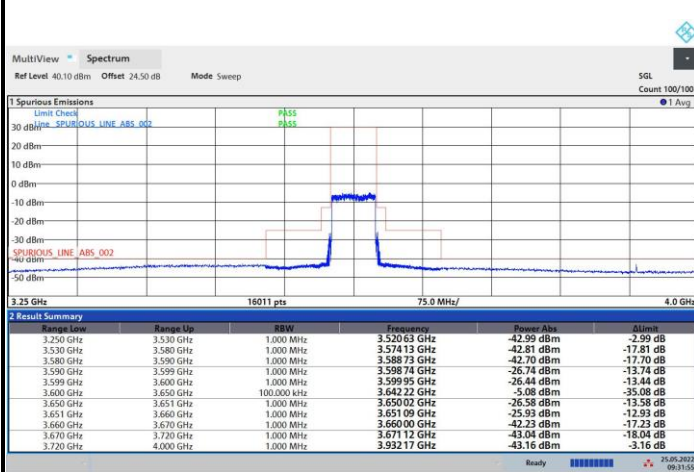
10:02:53 25.05.2022

16QAM



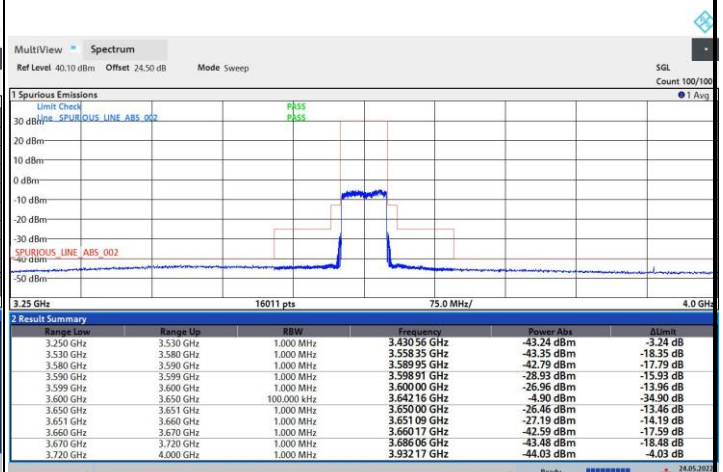
09:44:40 25.05.2022

64QAM



09:31:55 25.05.2022

256QAM

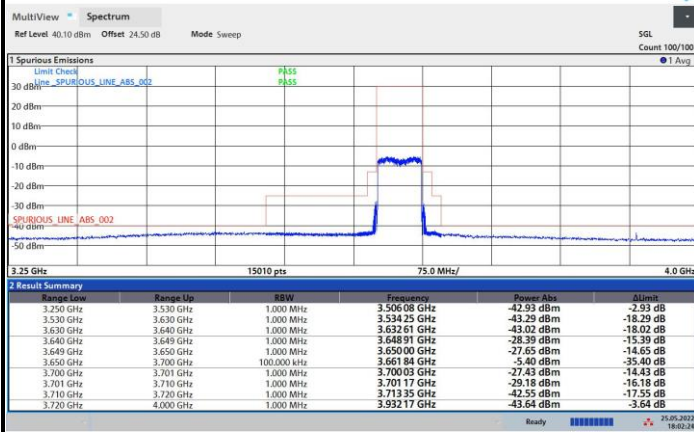


17:49:55 25.05.2022



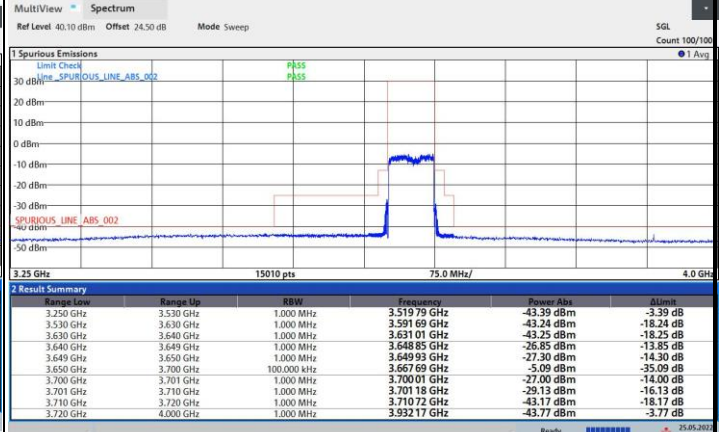
FR1 n48 / 50MHz / Highest Channel / MASK

QPSK



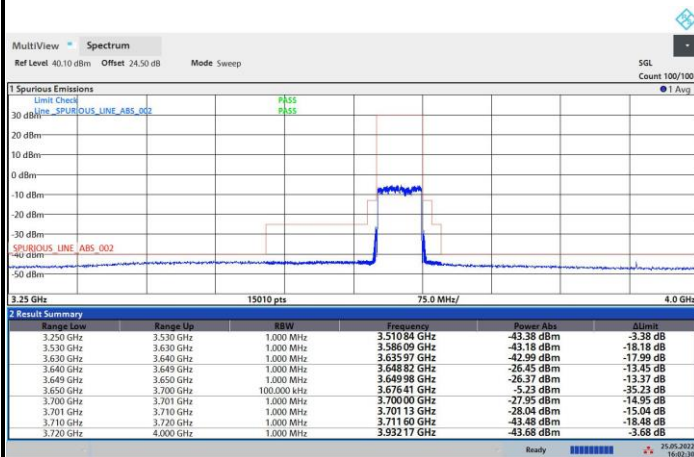
18:02:25 25.05.2022

16QAM



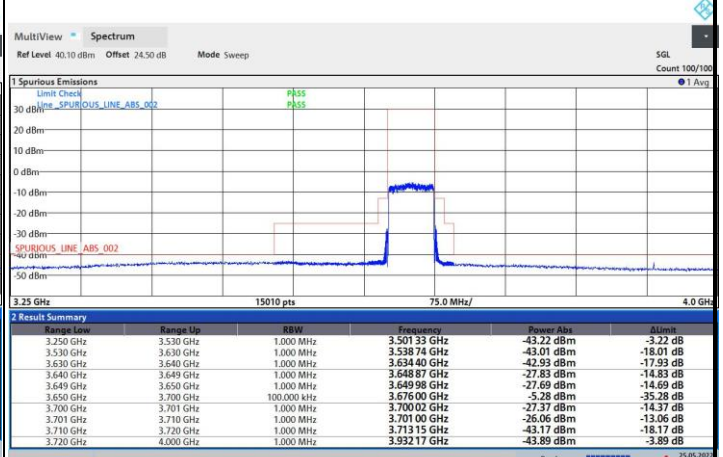
16:14:51 25.05.2022

64QAM



16:02:31 25.05.2022

256QAM

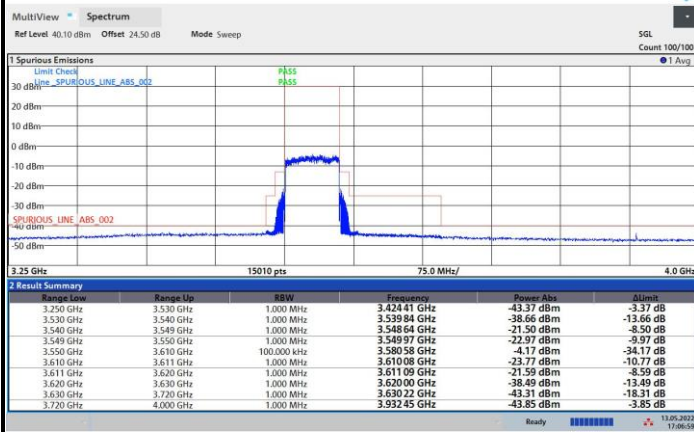


18:28:27 25.05.2022



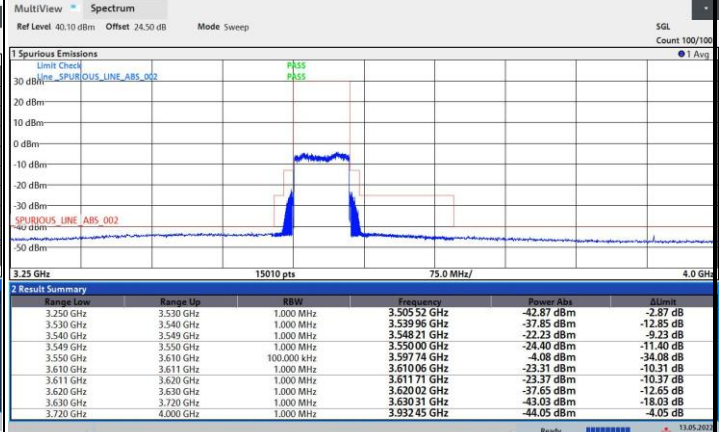
FR1 n48 / 60MHz / Lowest Channel / MASK

QPSK



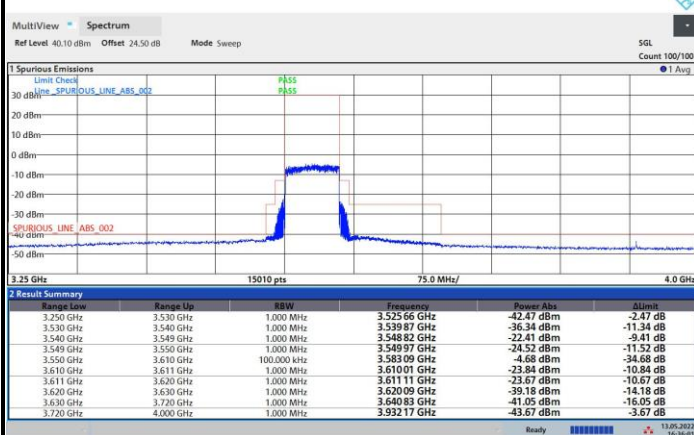
17:06:59 13.05.2022

16QAM



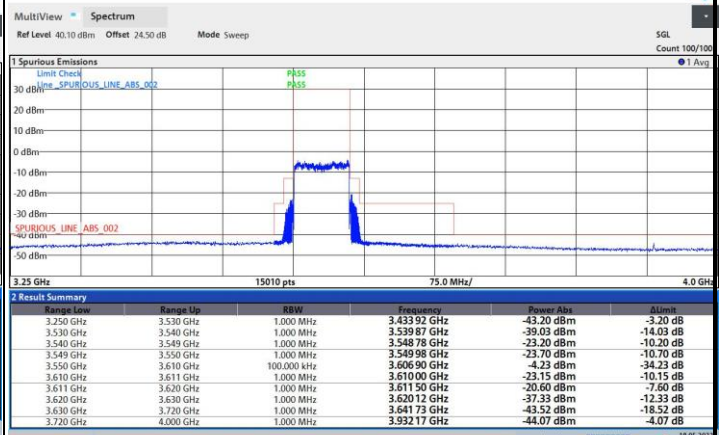
17:03:51 13.05.2022

64QAM



16:36:02 13.05.2022

256QAM

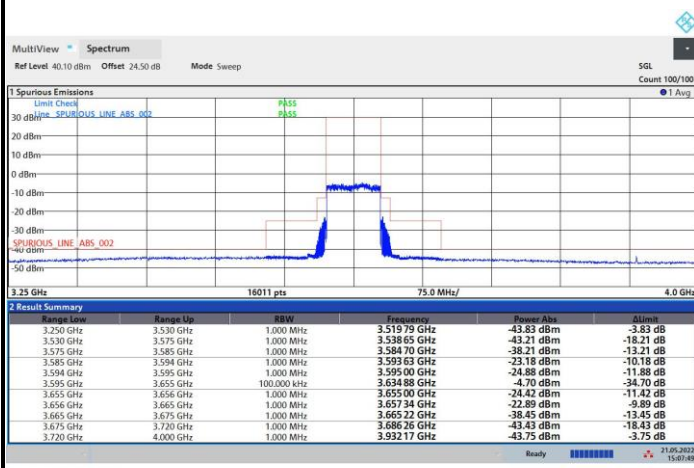


17:03:51 13.05.2022



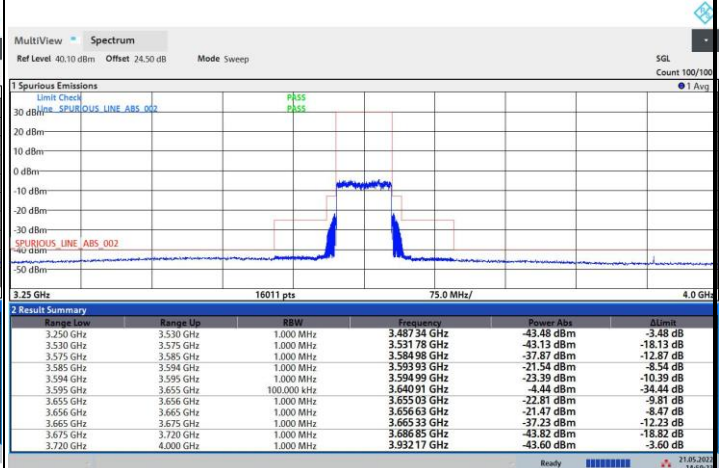
FR1 n48 / 60MHz / Middle Channel / MASK

QPSK



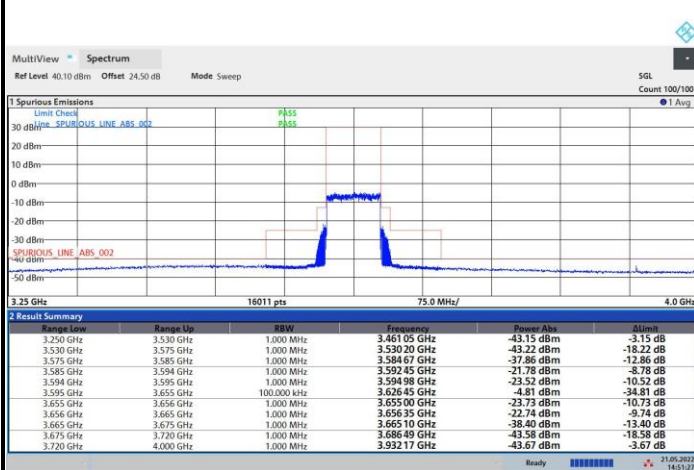
15:07:50 21.05.2022

16QAM



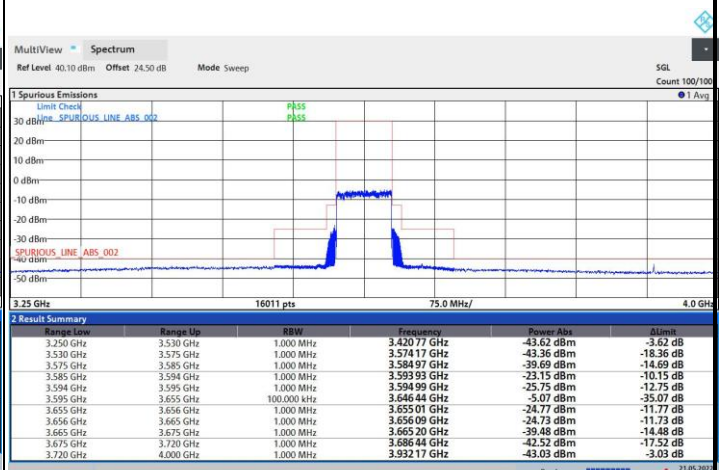
14:59:23 21.05.2022

64QAM



14:51:28 21.05.2022

256QAM

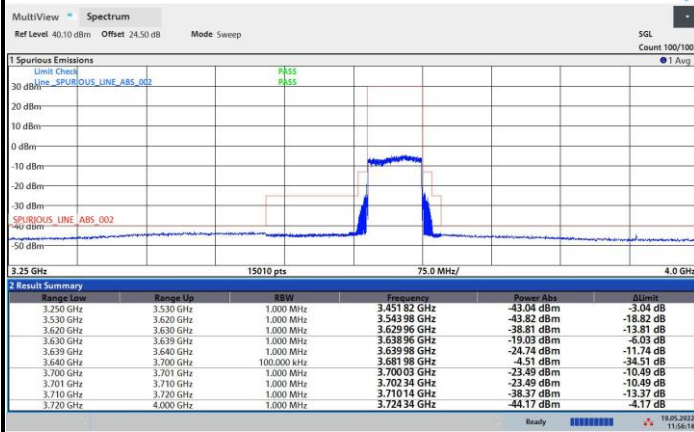


15:39:05 21.05.2022



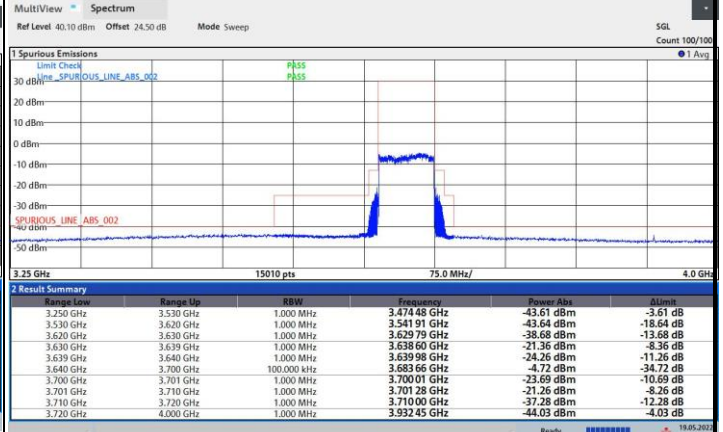
FR1 n48 / 60MHz / Highest Channel / MASK

QPSK



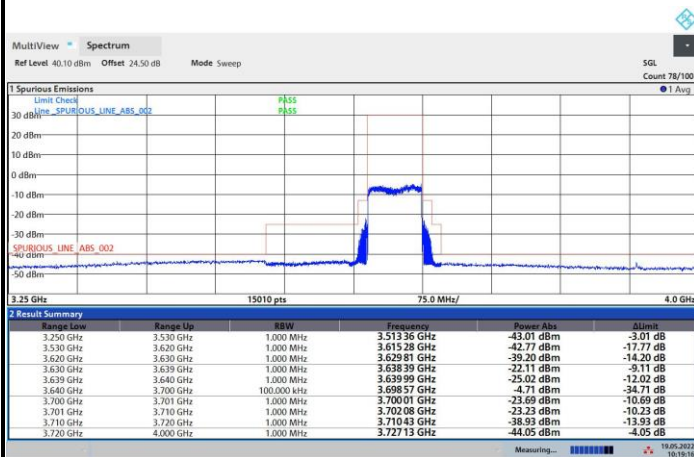
11:16:18 19.05.2022

16QAM



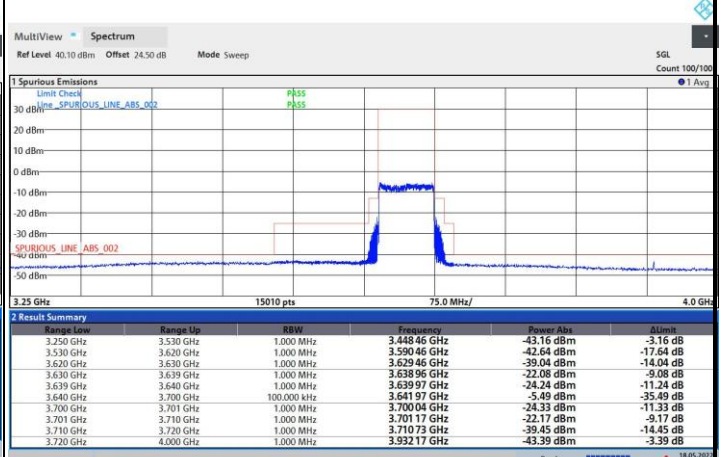
11:31:24 19.05.2022

64QAM



10:19:17 19.05.2022

256QAM

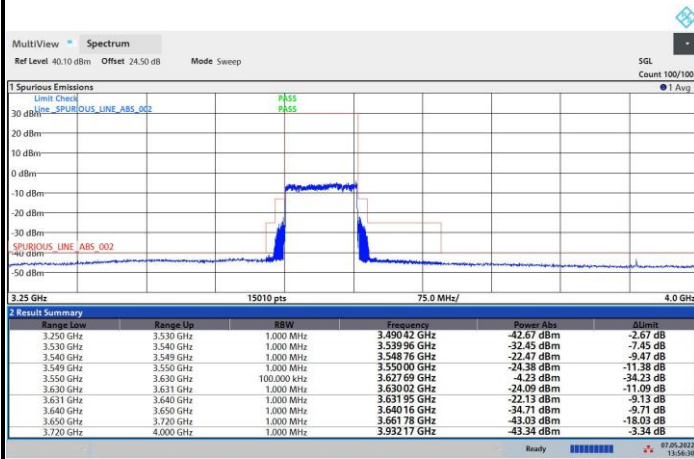


17:40:57 19.05.2022



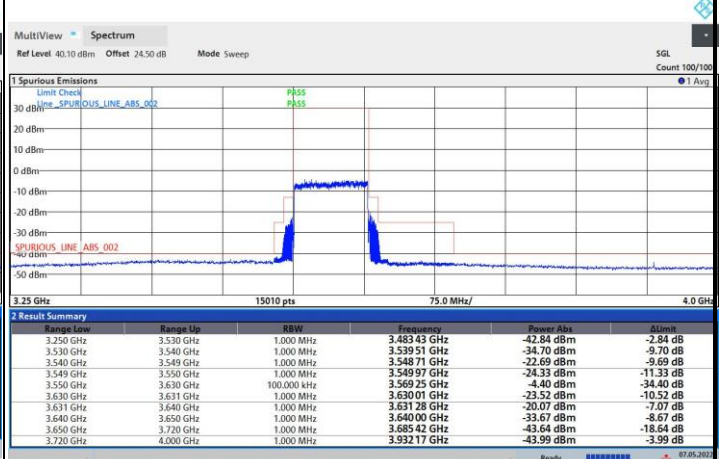
FR1 n48 / 80MHz / Lowest Channel / MASK

QPSK



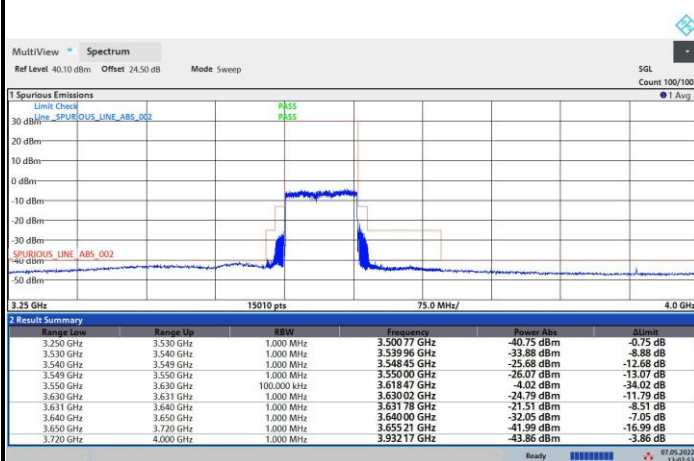
13:56:31 07.05.2022

16QAM



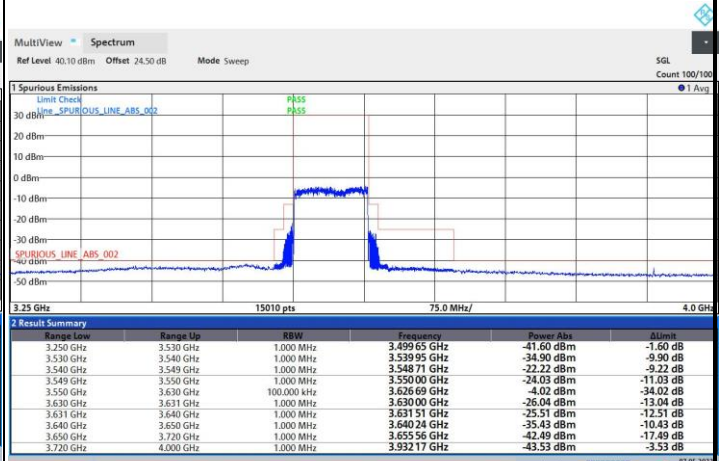
13:56:21 07.05.2022

64QAM



13:57:54 07.05.2022

256QAM

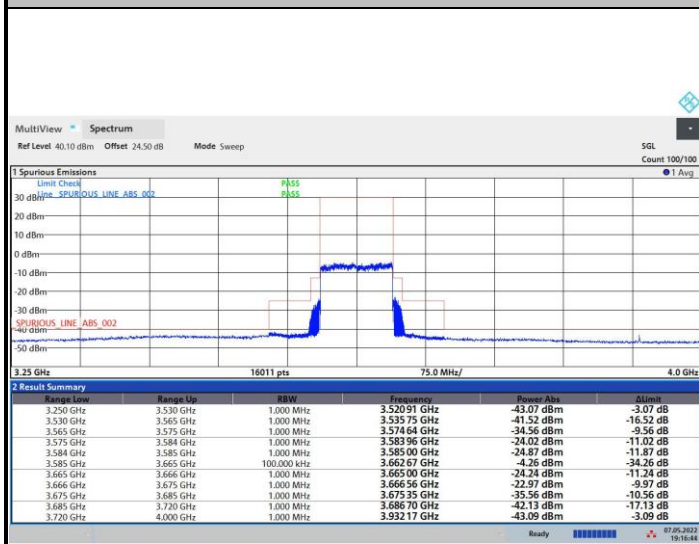


18:28:43 07.05.2022



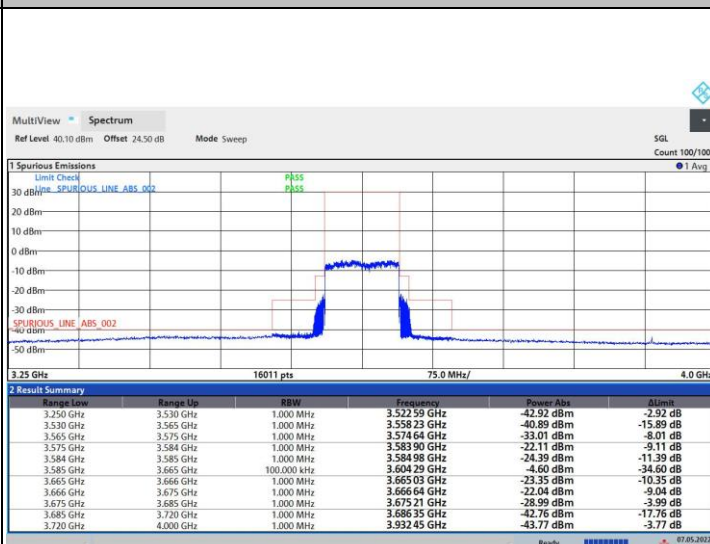
FR1 n48 / 80MHz / Middle Channel / MASK

QPSK



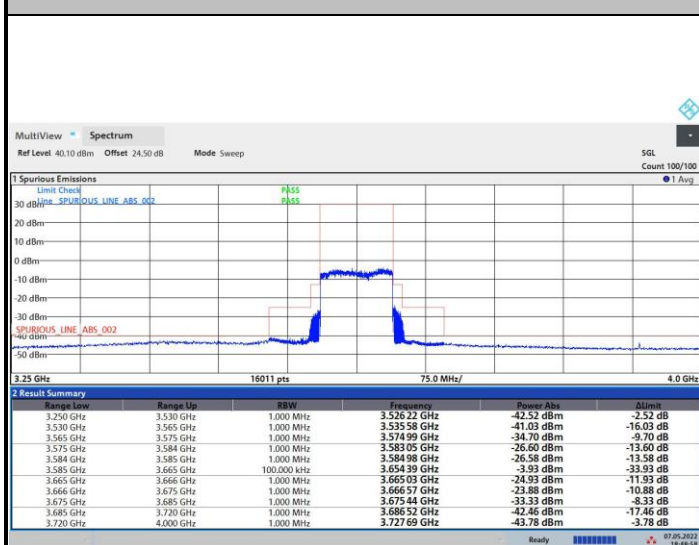
19:16:45 07.05.2022

16QAM



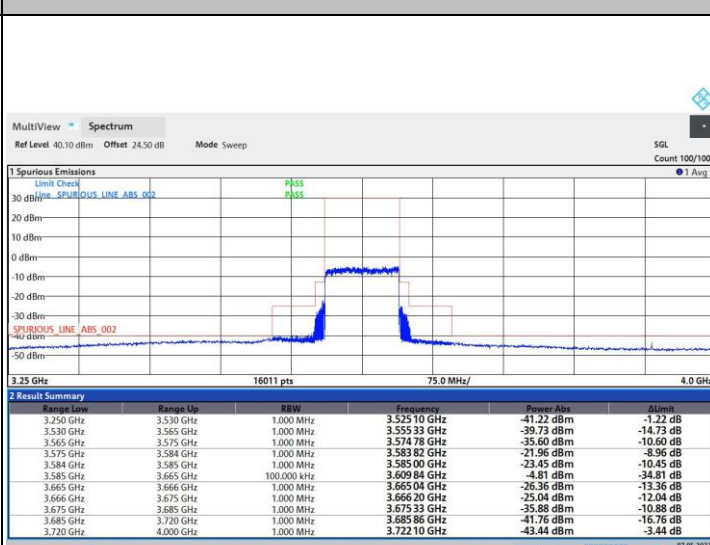
19:02:07 07.05.2022

64QAM



18:48:59 07.05.2022

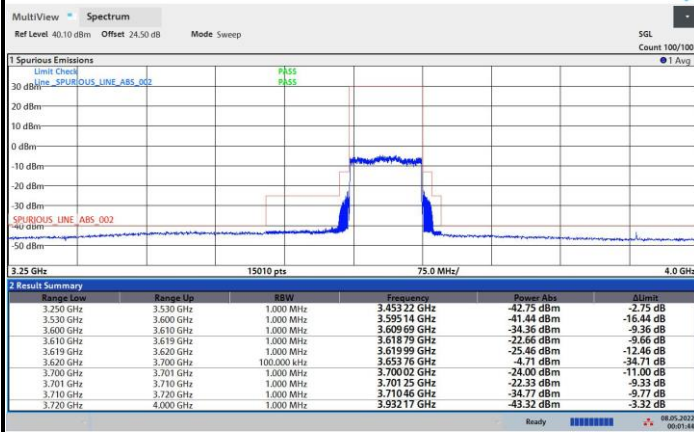
256QAM



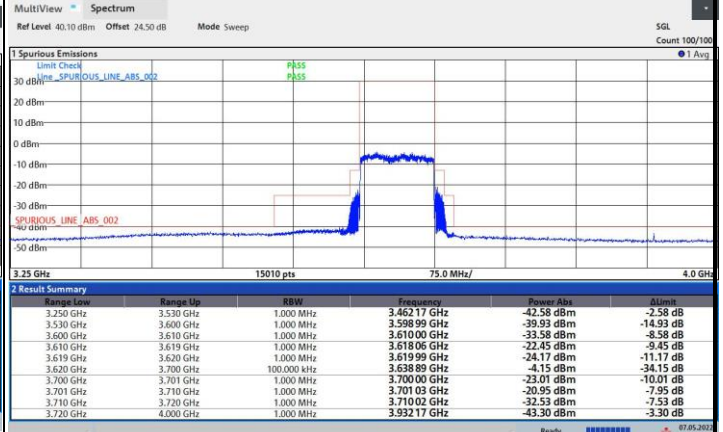
23:00:19 07.05.2022

FR1 n48 / 80MHz / Highest Channel / MASK

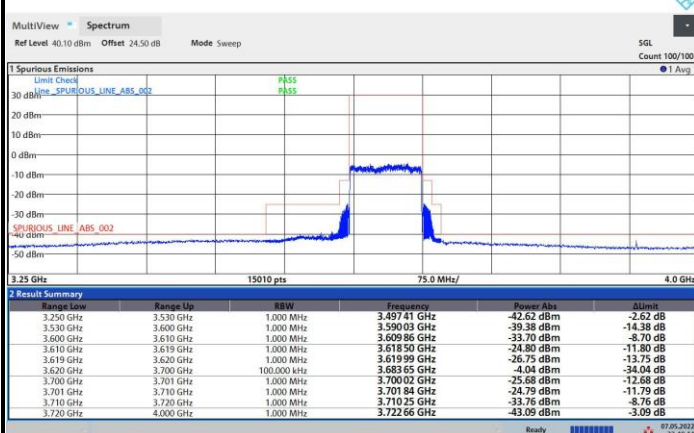
QPSK



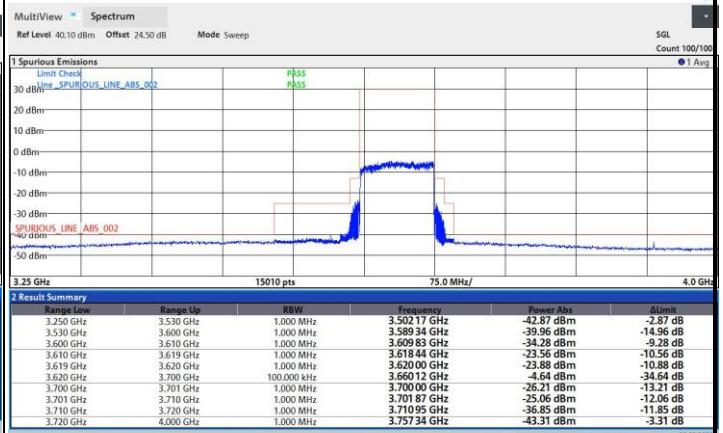
16QAM



64QAM



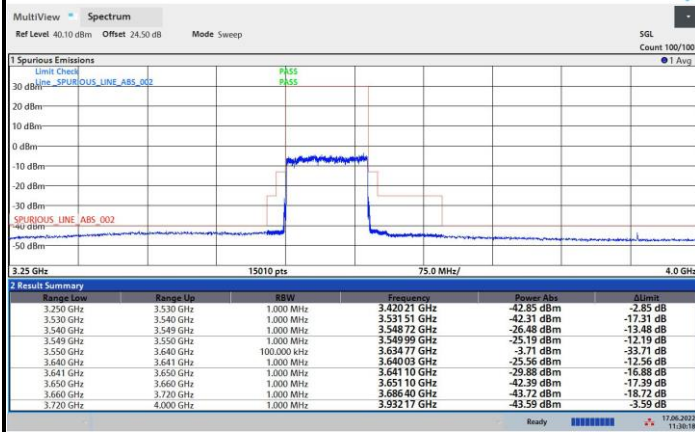
256QAM





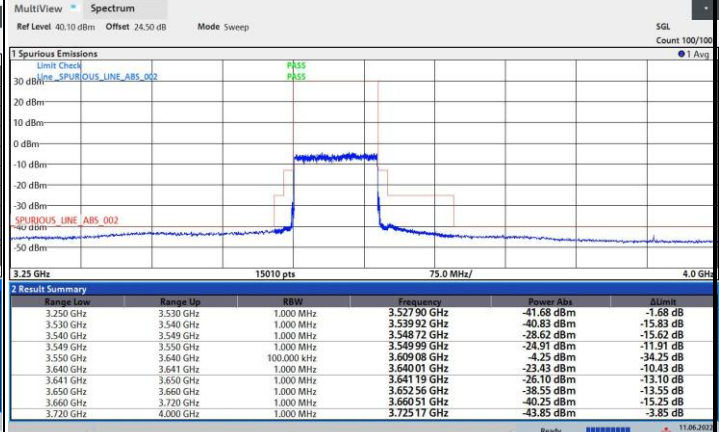
FR1 n48 / 90MHz / Lowest Channel / MASK

QPSK



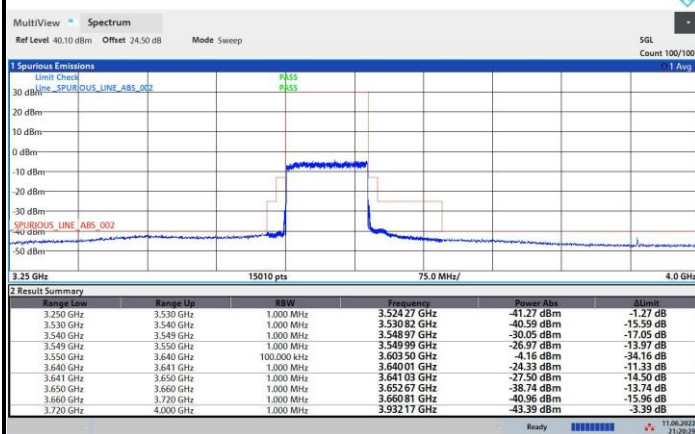
11:30:19 11.06.2022

16QAM



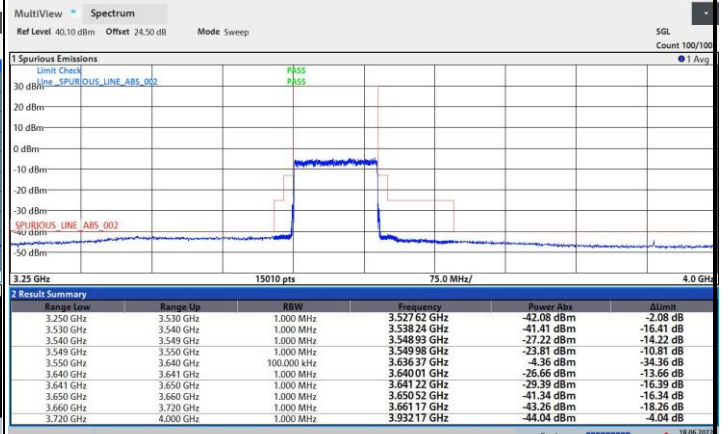
21:30:43 11.06.2022

64QAM



21:20:30 11.06.2022

256QAM

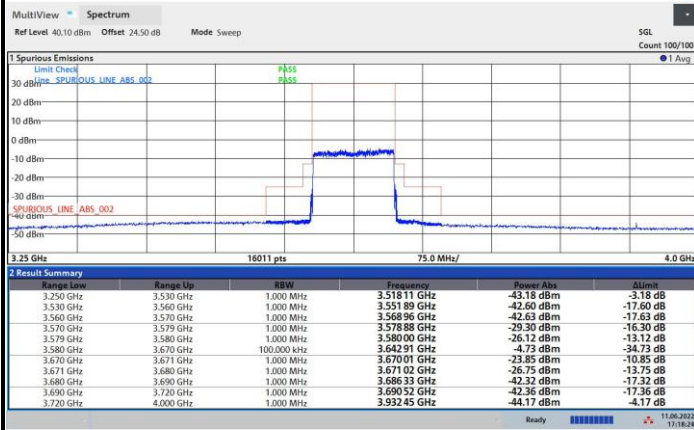


13:12:17 11.06.2022



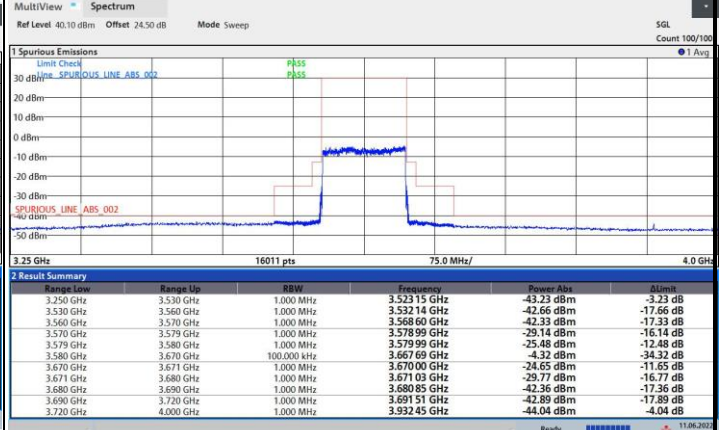
FR1 n48 / 90MHz / Middle Channel / MASK

QPSK



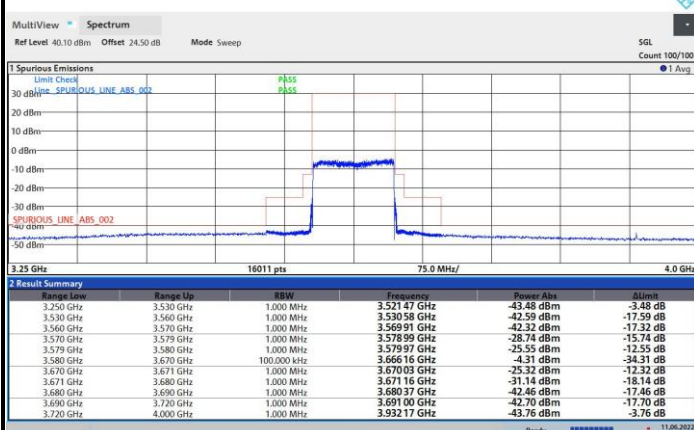
17:18:24 11.06.2022

16QAM



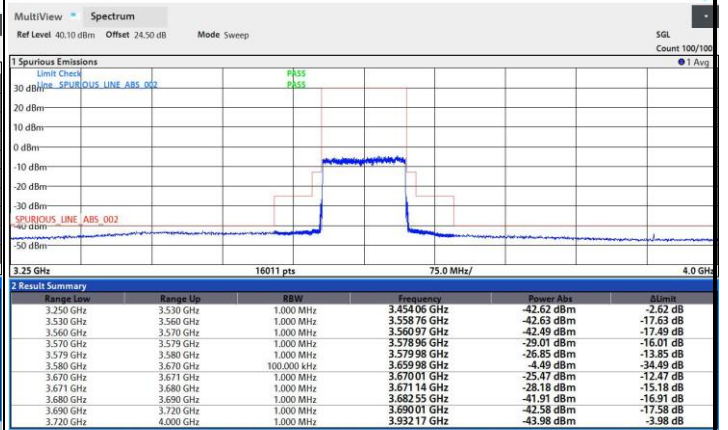
17:18:03 11.06.2022

64QAM



17:00:25 11.06.2022

256QAM

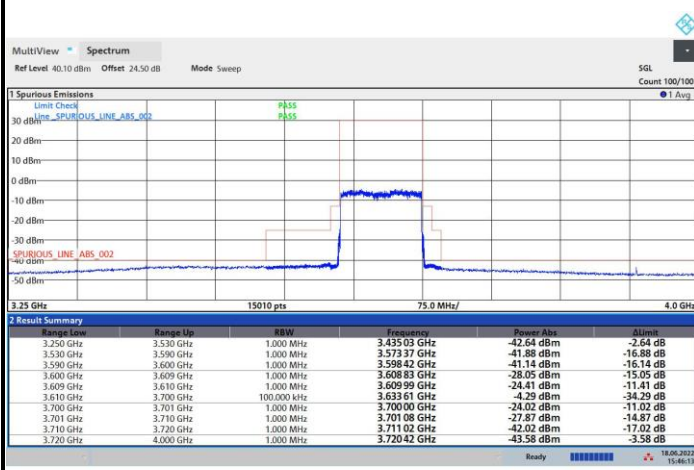


20:01:12 11.06.2022



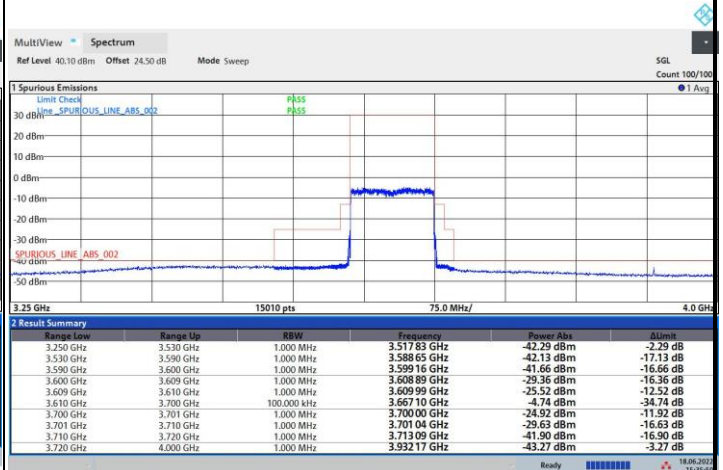
FR1 n48 / 90MHz / Highest Channel / MASK

QPSK



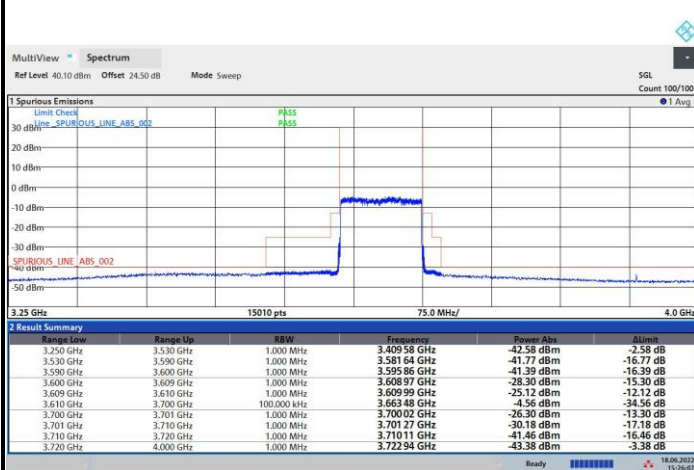
15:46:14 18.06.2022

16QAM



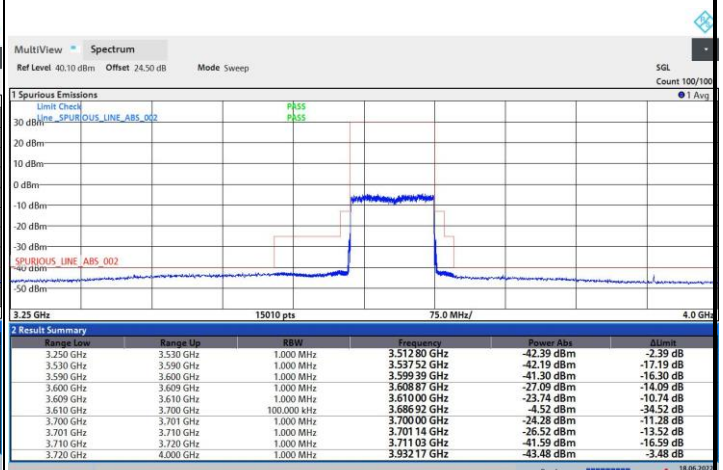
15:35:50 18.06.2022

64QAM



15:26:08 18.06.2022

256QAM

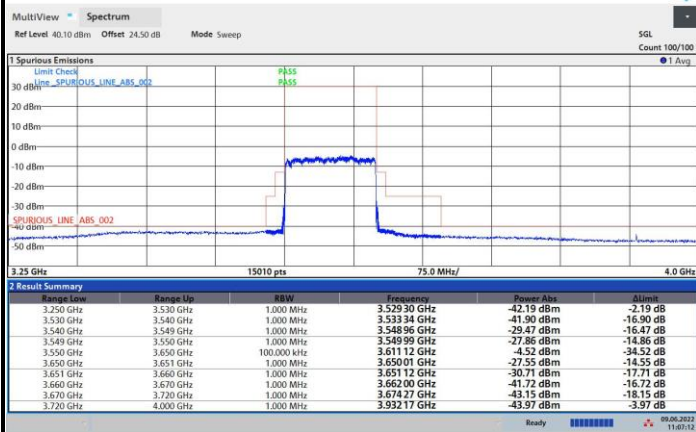


14:44:22 18.06.2022



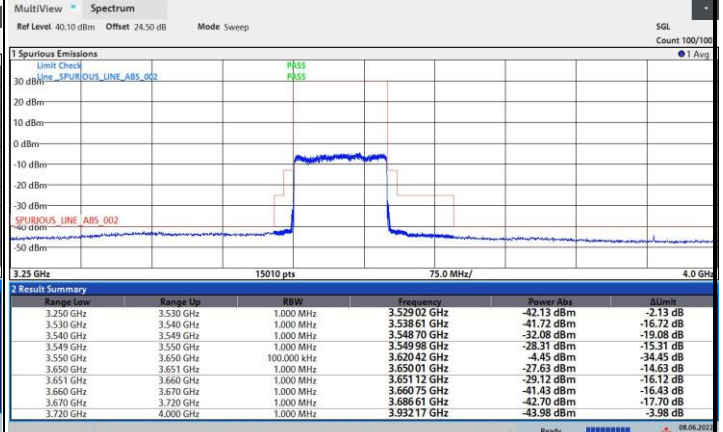
FR1 n48 / 100MHz / Lowest Channel / MASK

QPSK



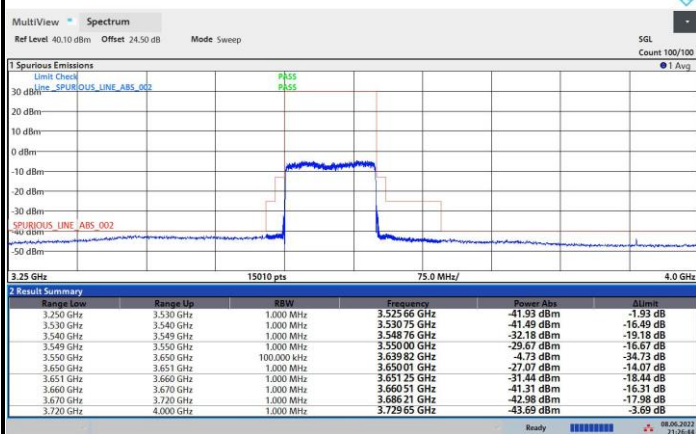
11:07:12 09.06.2022

16QAM



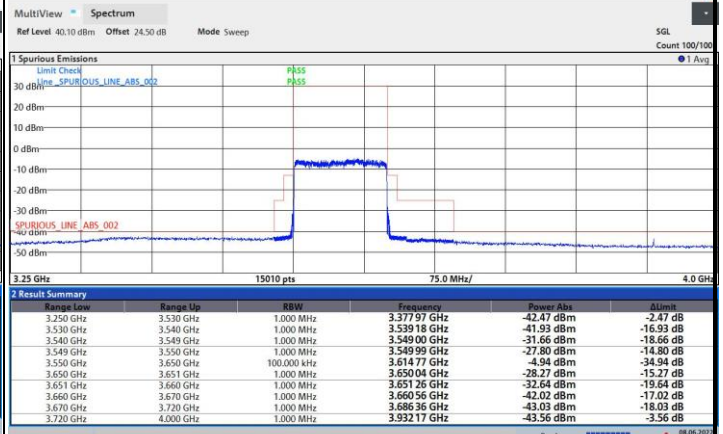
21:36:11 09.06.2022

64QAM



21:26:48 09.06.2022

256QAM

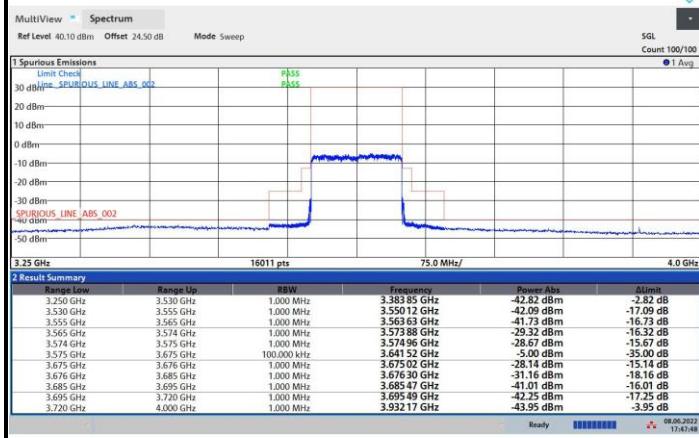


20:54:36 09.06.2022



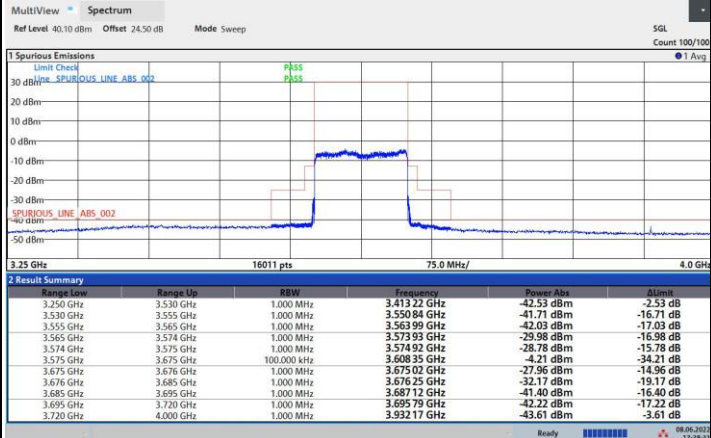
FR1 n48 / 100MHz / Middle Channel / MASK

QPSK



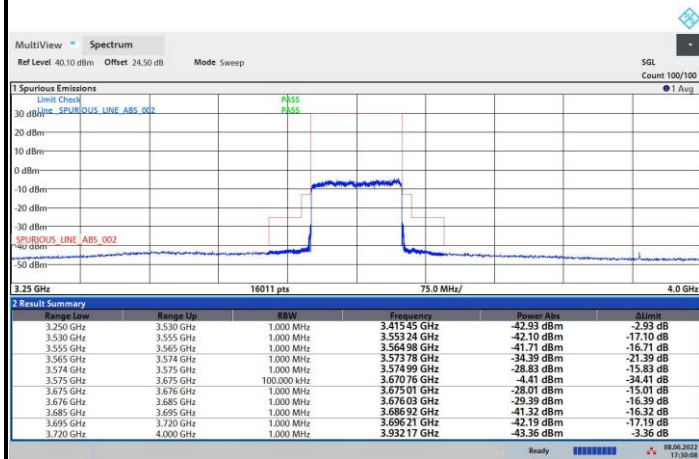
17:47:49 08.06.2022

16QAM



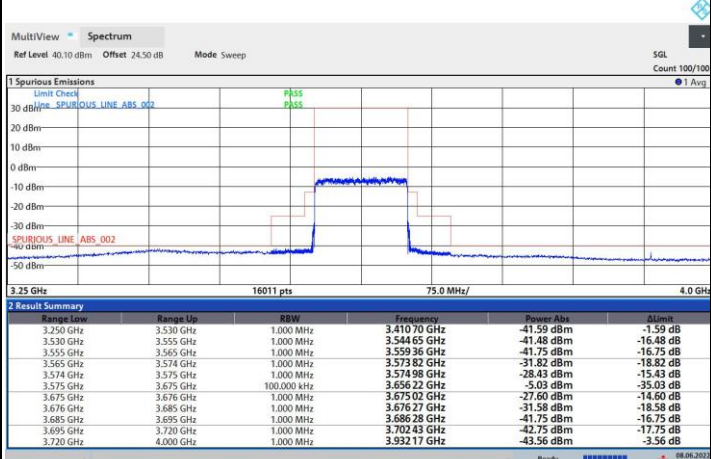
17:38:31 08.06.2022

64QAM



17:38:09 08.06.2022

256QAM

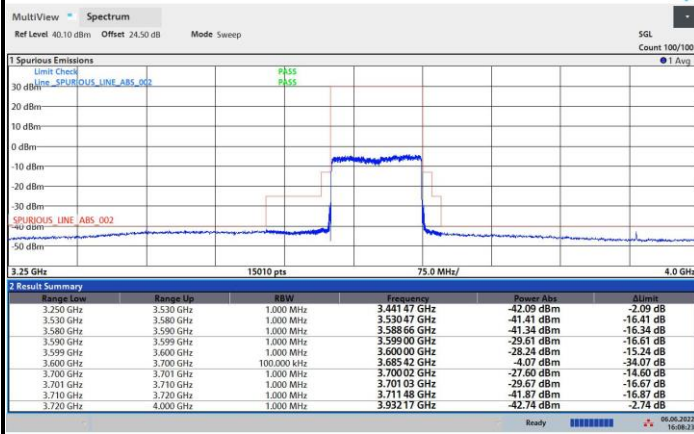


18:19:23 08.06.2022



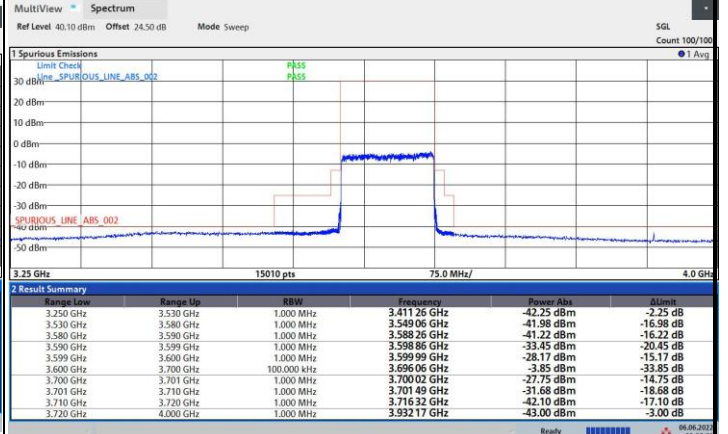
FR1 n48 / 100MHz / Highest Channel / MASK

QPSK



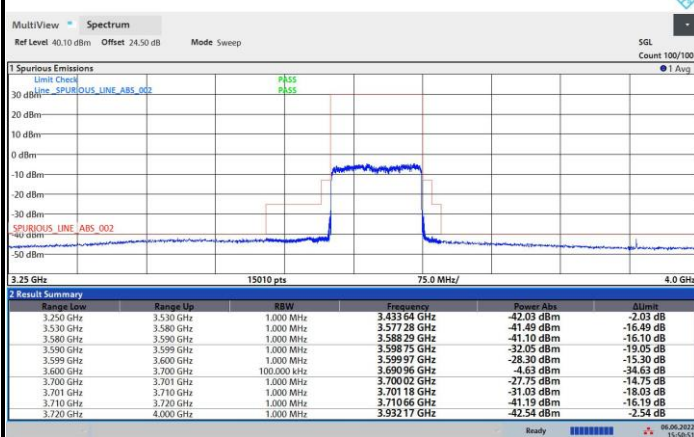
16:08:23 06.06.2022

16QAM



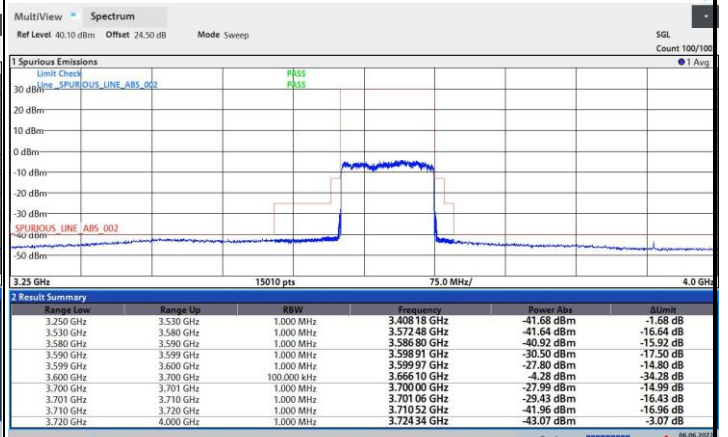
15:59:35 06.06.2022

64QAM



15:50:52 06.06.2022

256QAM



16:32:48 06.06.2022



Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

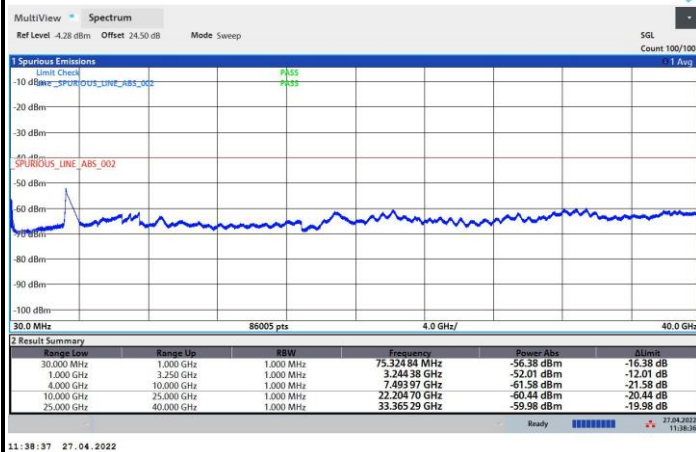
Lowest Channel



Middle Channel



Highest Channel





FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel



18:37:19 27.04.2022

Middle Channel



16:33:57 20.04.2022

Highest Channel



15:45:57 29.04.2022



FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel



14:11:54 10.05.2022

Middle Channel



15:46:37 12.05.2022

Highest Channel



15:07:35 11.05.2022



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



13:55:13 07.05.2022

Middle Channel



13:14:49 07.05.2022

Highest Channel



00:00:31 08.05.2022



FR1 n48 / 90MHz / QPSK / CSE

Lowest Channel



11:25:13 17.06.2022

Middle Channel



17:17:08 11.06.2022

Highest Channel



15:44:59 18.06.2022



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	2.4828	PASS
40	Normal Voltage	2.2069	
30	Normal Voltage	1.6552	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.2759	
0	Normal Voltage	1.3793	
-10	Normal Voltage	0.8276	
-20	Normal Voltage	1.1035	
-30	Normal Voltage	1.6552	
20	Maximum Voltage	1.6552	
20	Normal Voltage	0.5517	
20	Minimum Voltage	1.9310	

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.



Appendix B. Test Results of Radiated Test

<MIMO 4TX>

5G NR n48

5G NR n48 / 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7200	-56.41	-40	-16.41	-53.81	-65.87	1.84	11.30	H
	10800	-50.63	-40	-10.63	-52.53	-59.03	2.22	10.62	H
	14400	-43.10	-40	-3.10	-51.02	-52.63	2.63	12.16	H
	18000	-50.22	-40	-10.22	-60.62	-33.96	23.16	6.90	H
	21600	-58.77	-40	-18.77	-72.83	-73.87	3.40	18.50	H
	25200	-58.96	-40	-18.96	-76.26	-73.85	3.75	18.64	H
	28800	-46.27	-40	-6.27	-66.29	-61.61	4.00	19.34	H
	7200	-53.86	-40	-13.86	-51.66	-63.32	1.84	11.30	V
	10800	-50.64	-40	-10.64	-52.26	-59.04	2.22	10.62	V
	14400	-41.63	-40	-1.63	-49.84	-51.16	2.63	12.16	V
	18000	-57.78	-40	-17.78	-67.87	-41.52	23.16	6.90	V
	21600	-58.84	-40	-18.84	-72.58	-73.94	3.40	18.50	V
	25200	-59.52	-40	-19.52	-76.53	-74.41	3.75	18.64	V
	28800	-50.95	-40	-10.95	-70.56	-66.29	4.00	19.34	V



Middle	7250	-54.81	-40	-14.81	-52.32	-64.27	1.87	11.33	H
	10875	-49.40	-40	-9.40	-51.44	-57.76	2.21	10.58	H
	14500	-43.63	-40	-3.63	-51.64	-53.11	2.62	12.10	H
	18125	-49.80	-40	-9.80	-60.32	-64.17	3.23	17.60	H
	21750	-59.29	-40	-19.29	-73.5	-74.50	3.44	18.65	H
	25375	-59.28	-40	-19.28	-76.6	-74.34	3.79	18.85	H
	29000	-47.75	-40	-7.75	-68.1	-63.05	4.00	19.30	H
	7250	-55.35	-40	-15.35	-53.19	-64.81	1.87	11.33	V
	10875	-47.88	-40	-7.88	-49.71	-56.24	2.21	10.58	V
	14500	-42.23	-40	-2.23	-50.75	-51.71	2.62	12.10	V
	18125	-54.57	-40	-14.57	-64.8	-68.94	3.23	17.60	V
	21750	-61.30	-40	-21.30	-75.17	-76.51	3.44	18.65	V
	25375	-59.29	-40	-19.29	-76.33	-74.35	3.79	18.85	V
	29000	-48.60	-40	-8.60	-68.54	-63.90	4.00	19.30	V
Highest	7300	-54.89	-40	-14.89	-52.52	-64.35	1.89	11.35	H
	10950	-48.06	-40	-8.06	-50.24	-56.38	2.21	10.53	H
	14600	-43.71	-40	-3.71	-51.76	-53.42	2.61	12.32	H
	18250	-48.71	-40	-8.71	-59.34	-63.07	3.24	17.60	H
	21900	-58.18	-40	-18.18	-72.54	-73.50	3.48	18.80	H
	25550	-59.69	-40	-19.69	-77.09	-74.87	3.83	19.01	H
	29200	-48.34	-40	-8.34	-68.62	-63.73	3.99	19.38	H
	7300	-54.20	-40	-14.20	-52.07	-63.66	1.89	11.35	V
	10950	-45.69	-40	-5.69	-47.73	-54.01	2.21	10.53	V
	14600	-43.20	-40	-3.20	-51.96	-52.91	2.61	12.32	V
	18250	-56.80	-40	-16.80	-67.17	-71.16	3.24	17.60	V
	21900	-60.43	-40	-20.43	-74.43	-75.75	3.48	18.80	V
	25550	-54.32	-40	-14.32	-71.45	-69.50	3.83	19.01	V
	29200	-50.65	-40	-10.65	-70.59	-66.04	3.99	19.38	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.