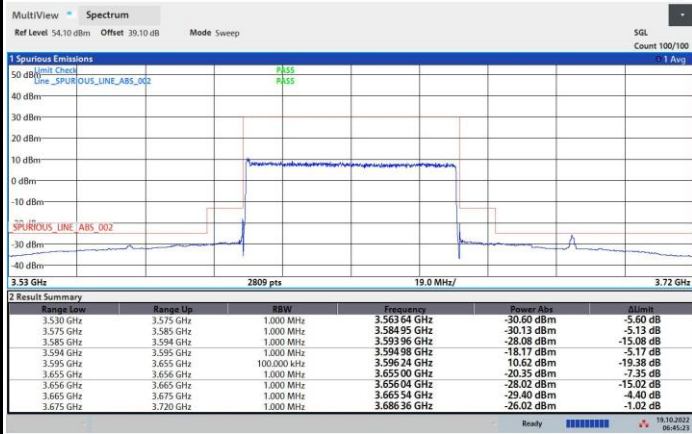




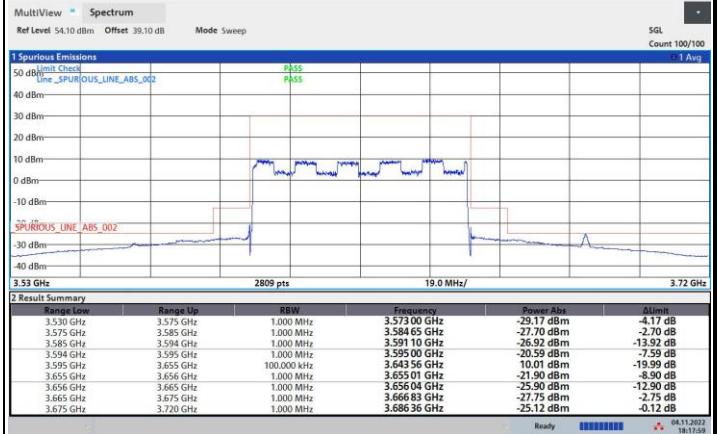
FR1 n48 / 60MHz / Middle Channel / MASK

QPSK



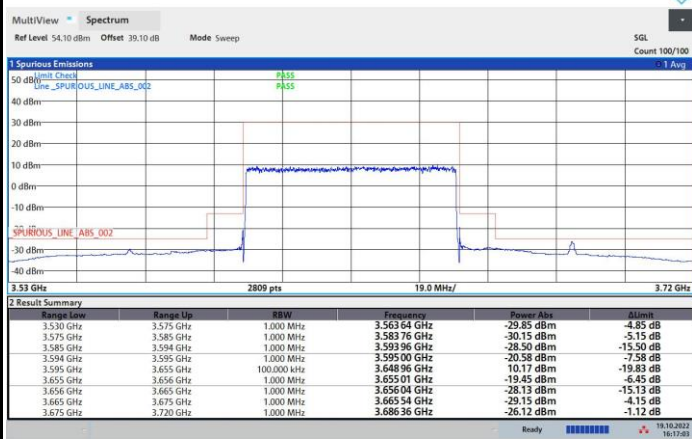
06:45:23 19.10.2022

16QAM



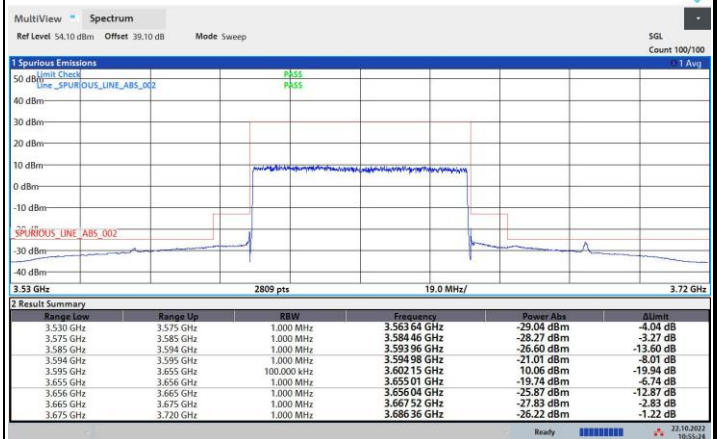
18:17:59 04.11.2022

64QAM



16:17:04 19.10.2022

256QAM

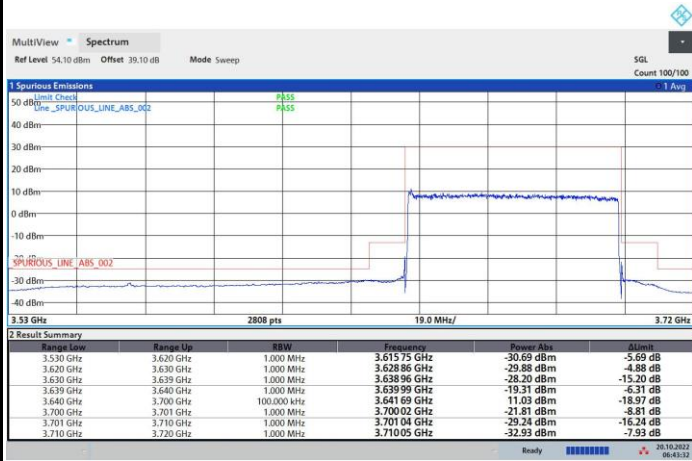


10:55:24 22.10.2022

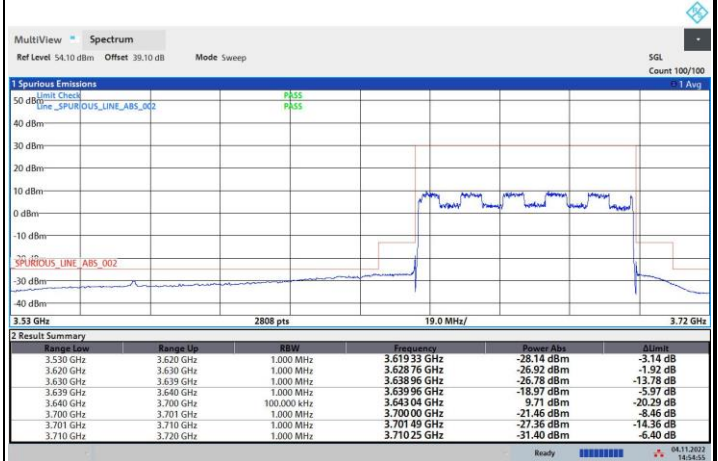


FR1 n48 / 60MHz / Highest Channel / MASK

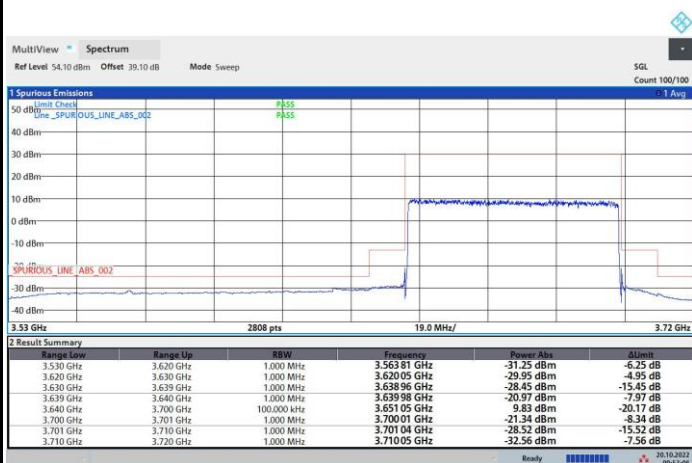
QPSK



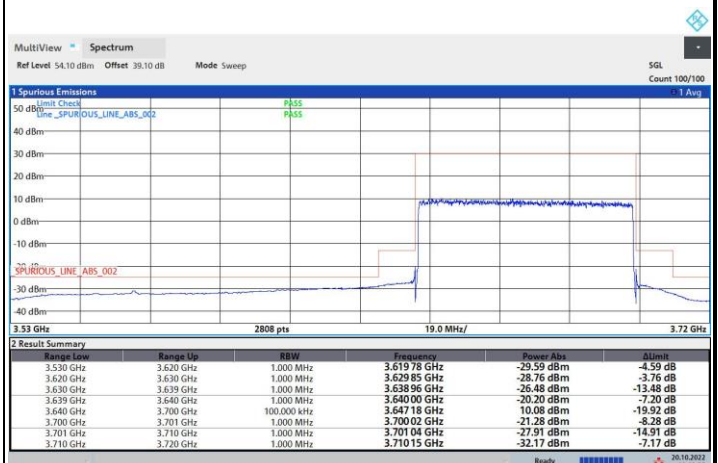
16QAM



64QAM



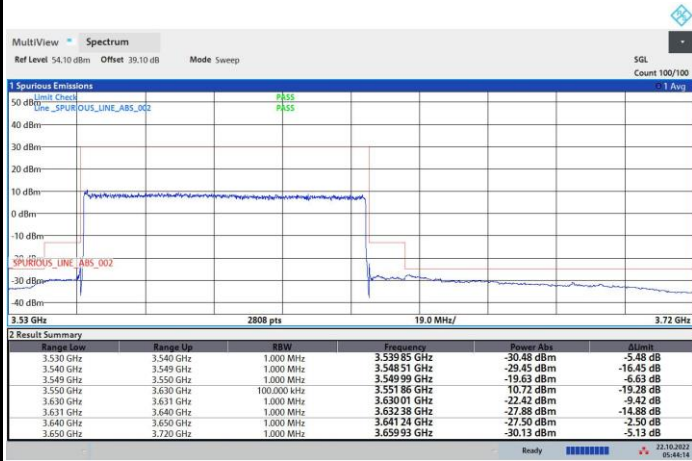
256QAM



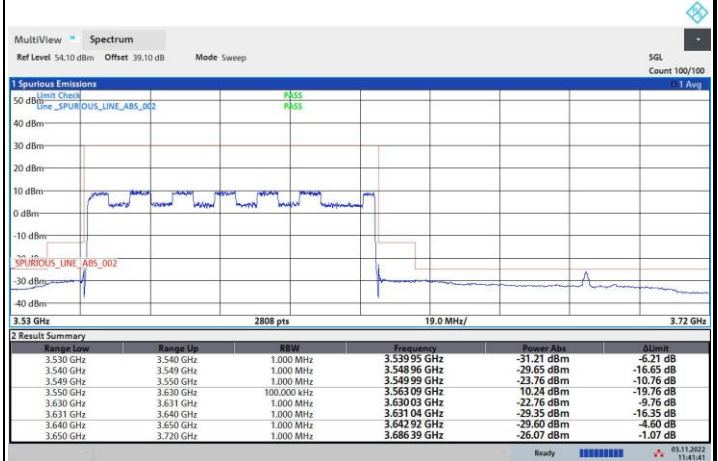


FR1 n48 / 80MHz / Lowest Channel / MASK

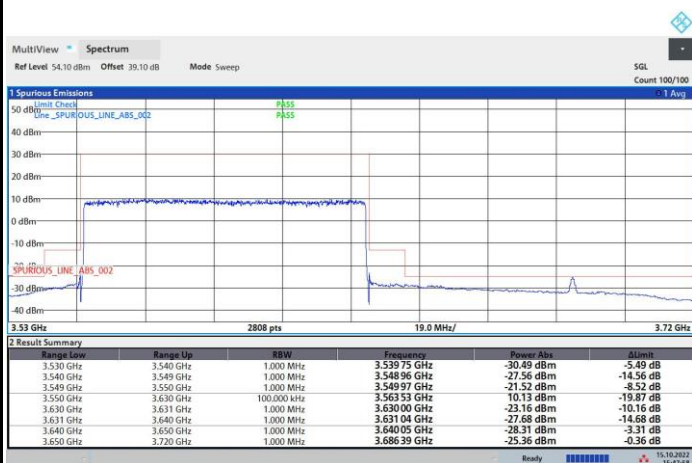
QPSK



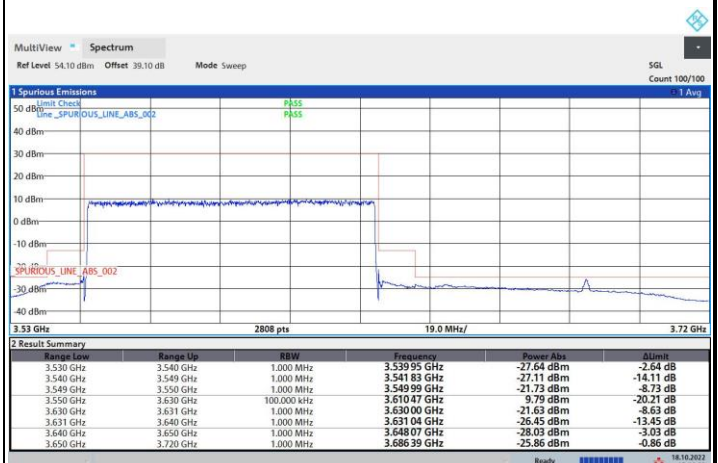
16QAM



64QAM



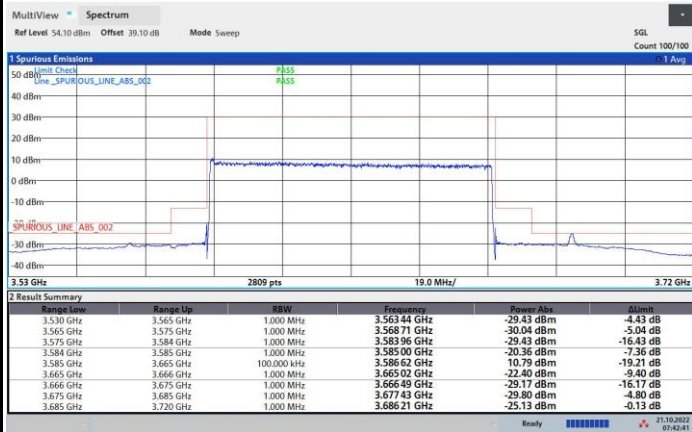
256QAM





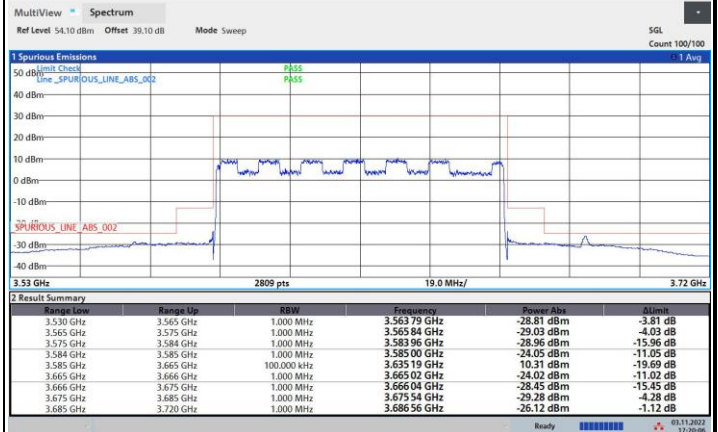
FR1 n48 / 80MHz / Middle Channel / MASK

QPSK



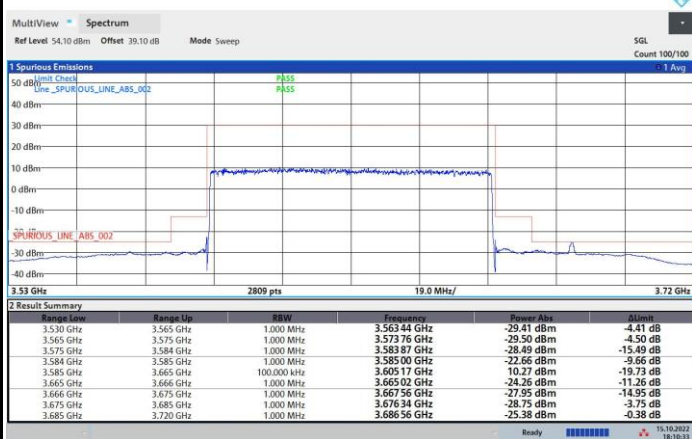
07:42:41 21.10.2022

16QAM



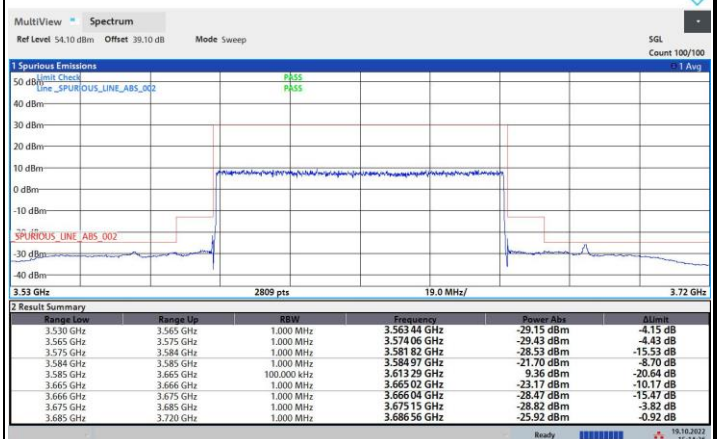
17:20:07 03.11.2022

64QAM



18:10:33 15.10.2022

256QAM

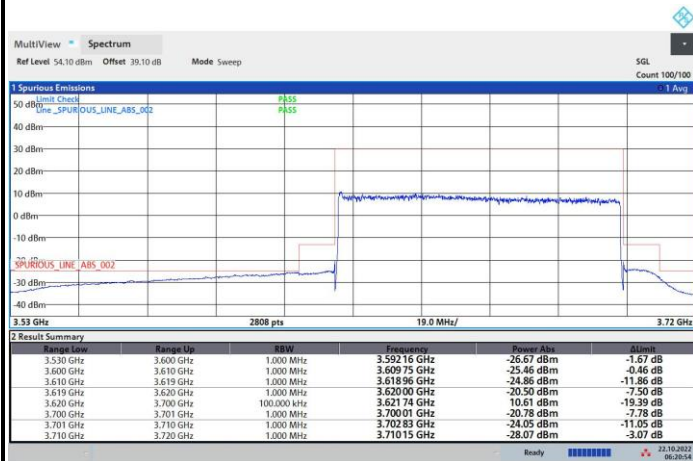


15:14:37 19.10.2022

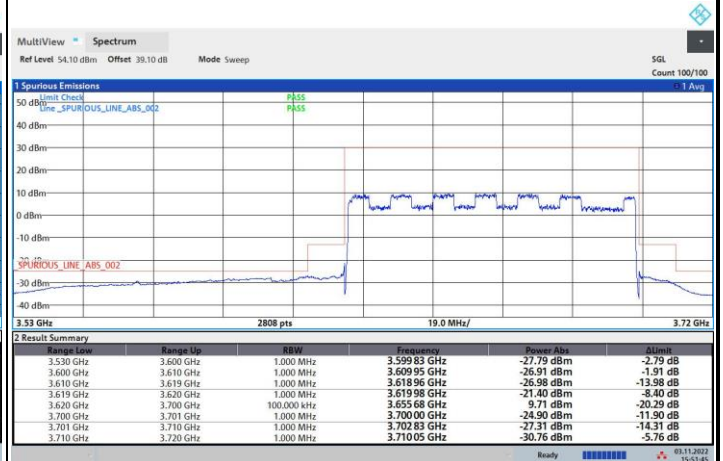


FR1 n48 / 80MHz / Highest Channel / MASK

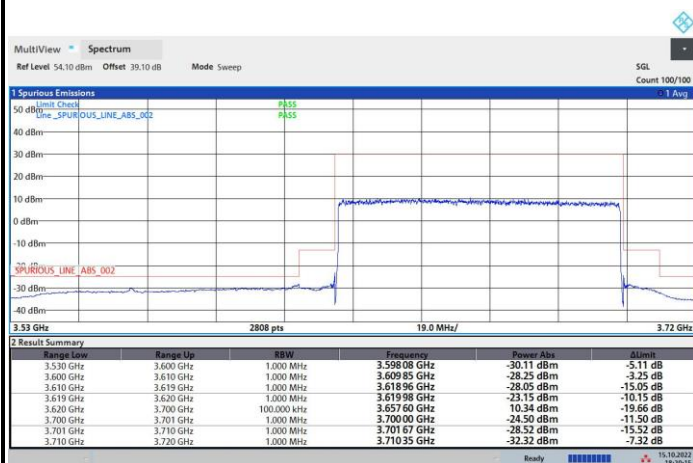
QPSK



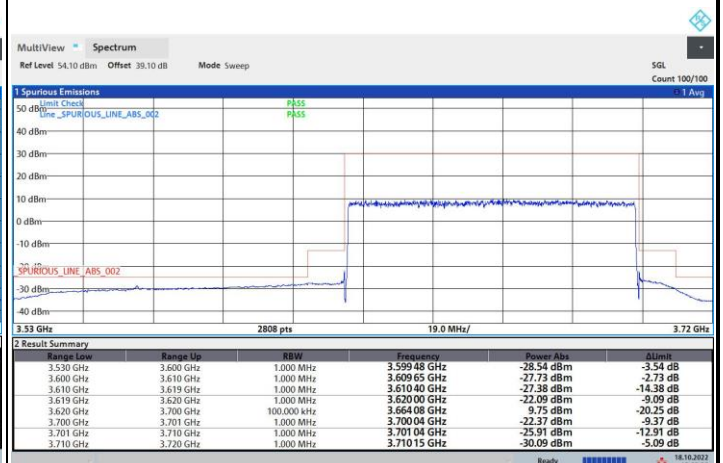
16QAM



64QAM



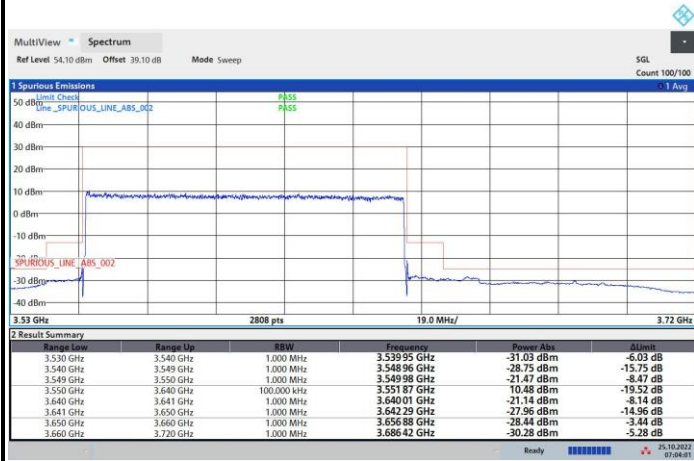
256QAM



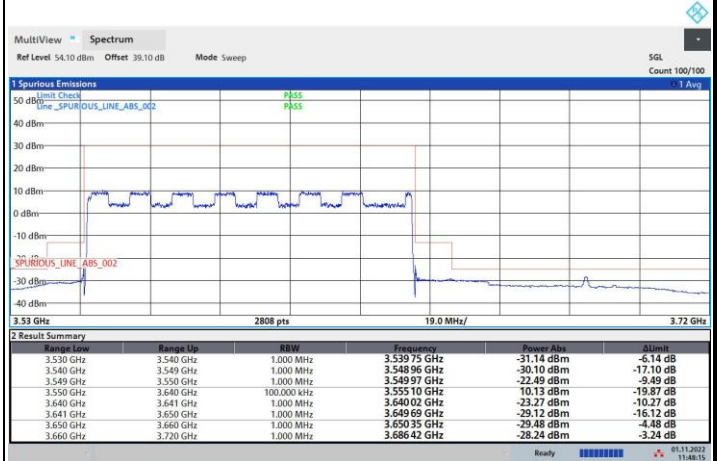


FR1 n48 / 90MHz / Lowest Channel / MASK

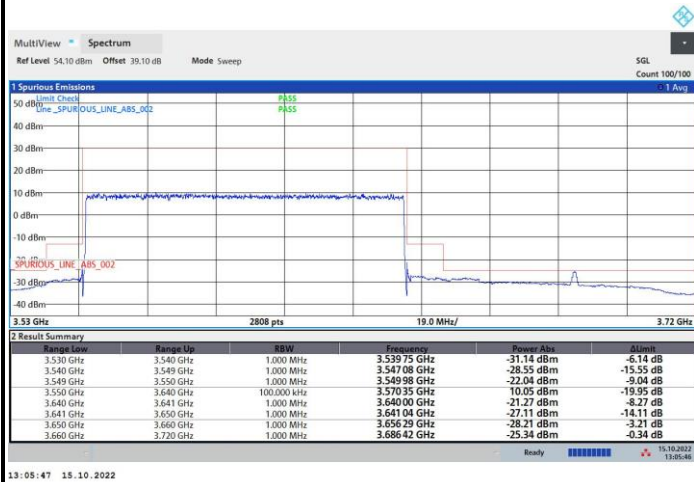
QPSK



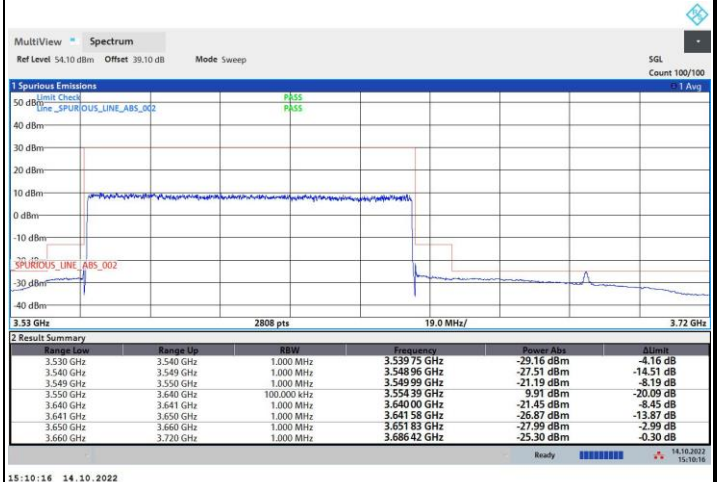
16QAM



64QAM

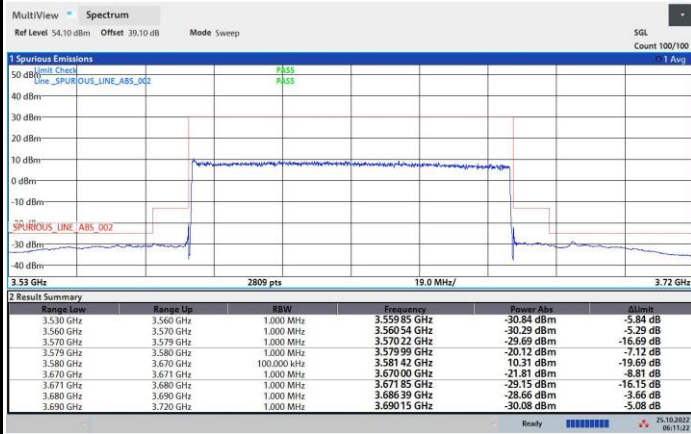


256QAM



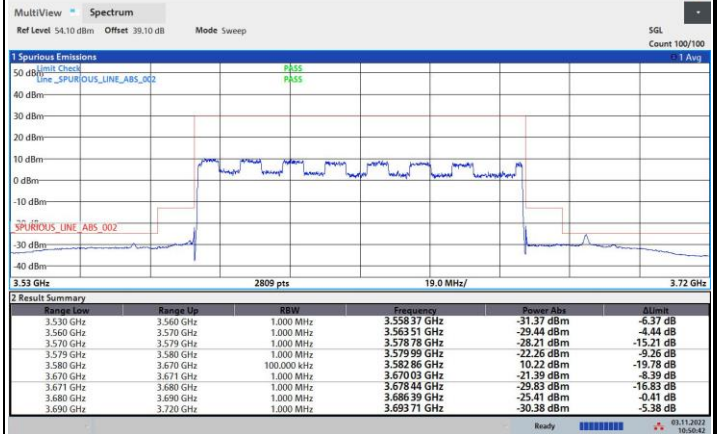
FR1 n48 / 90MHz / Middle Channel / MASK

QPSK



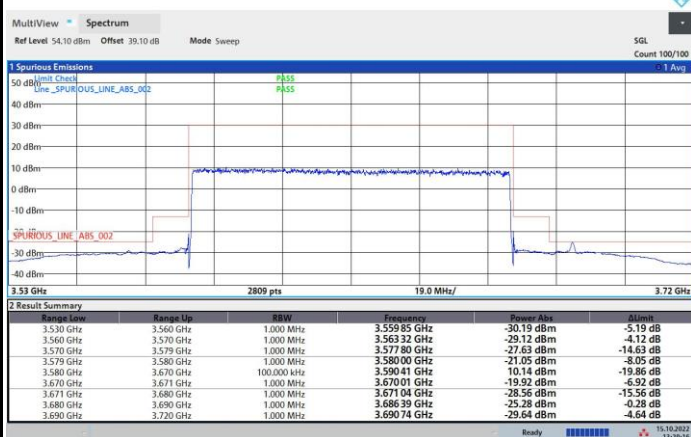
06:11:23 25.10.2022

16QAM



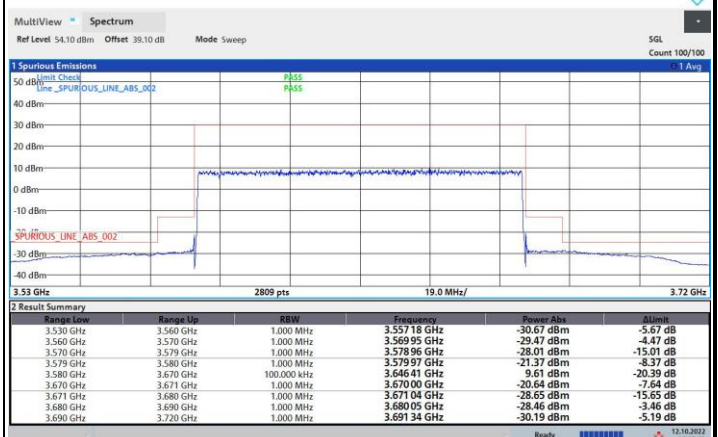
10:50:42 03.11.2022

64QAM



13:29:17 15.10.2022

256QAM

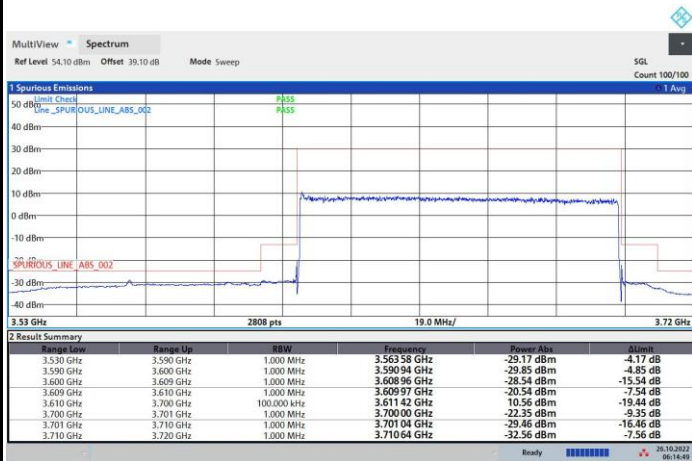


16:25:03 12.10.2022



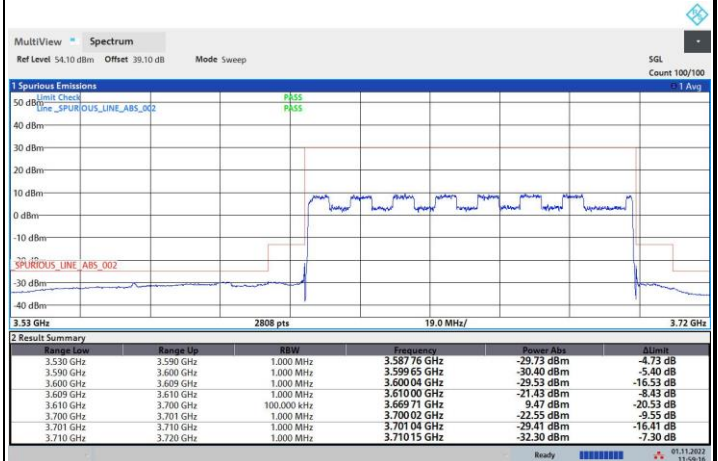
FR1 n48 / 90MHz / Highest Channel / MASK

QPSK



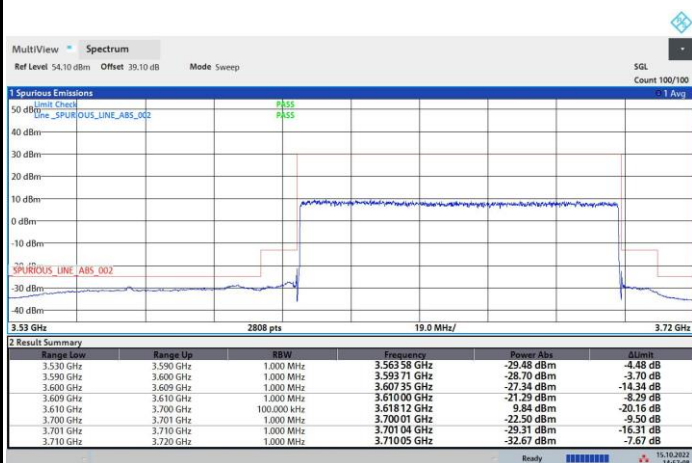
06:14:49 26.10.2022

16QAM



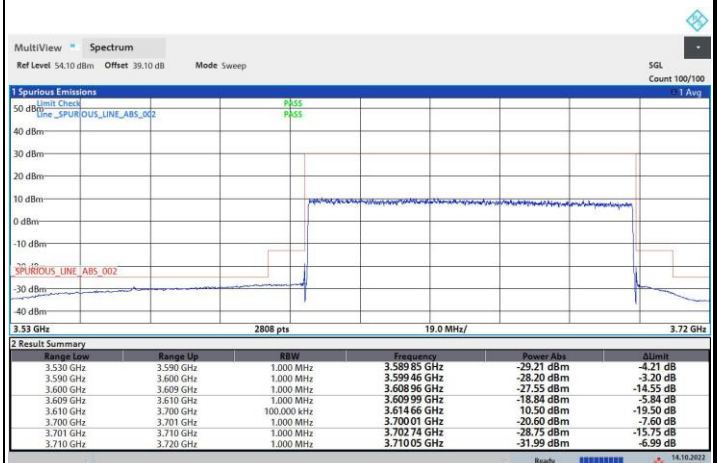
11:59:17 01.11.2022

64QAM



14:57:08 15.10.2022

256QAM

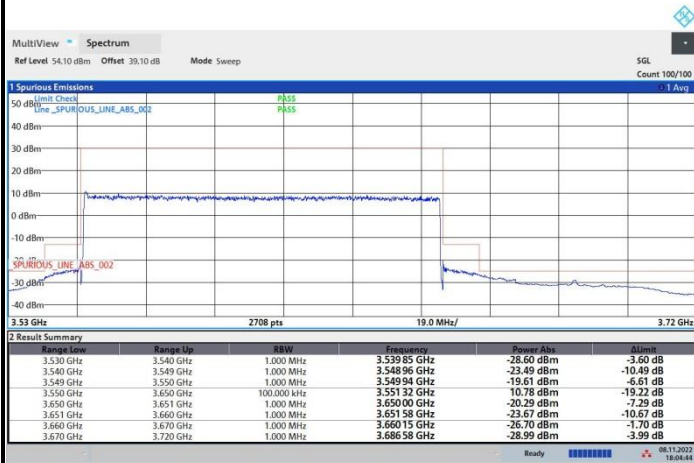


15:29:52 14.10.2022



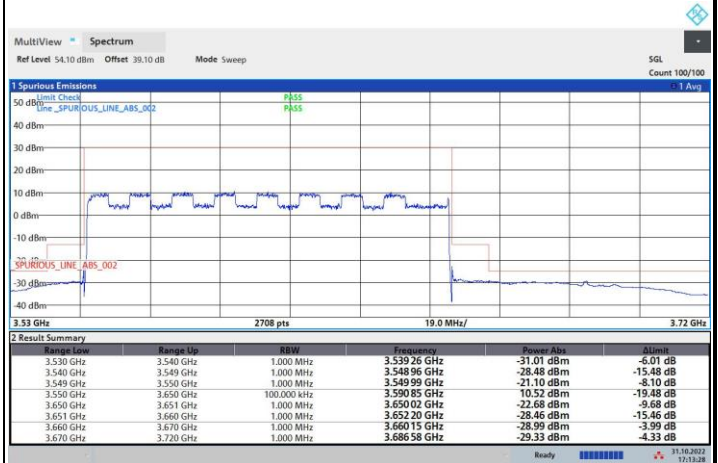
FR1 n48 / 100MHz / Lowest Channel / MASK

QPSK



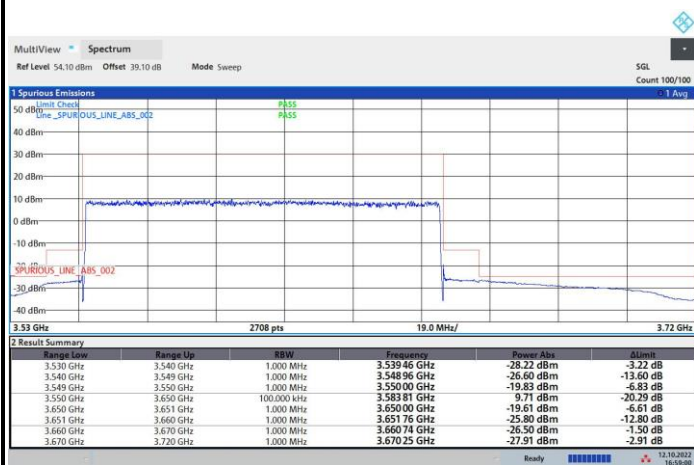
18:04:45 08.11.2022

16QAM



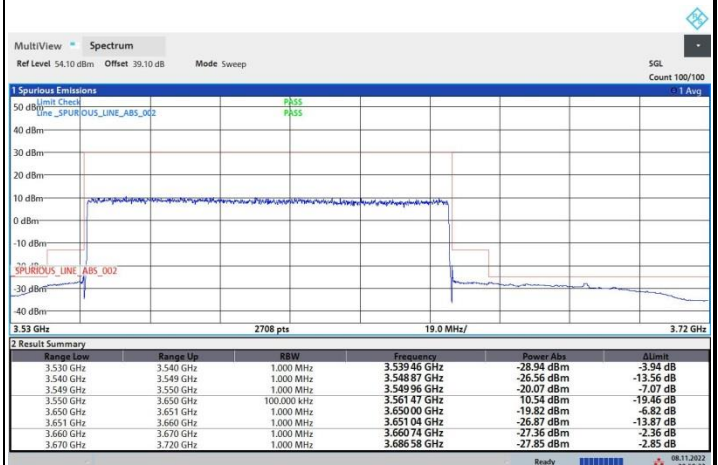
17:13:29 08.11.2022

64QAM



16:59:00 10.10.2022

256QAM

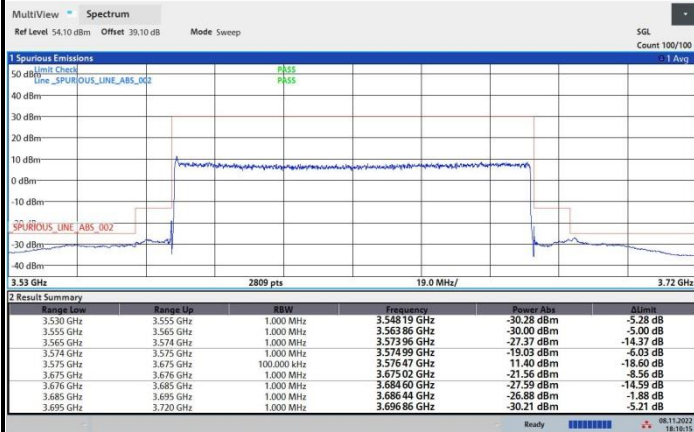


20:59:32 08.11.2022



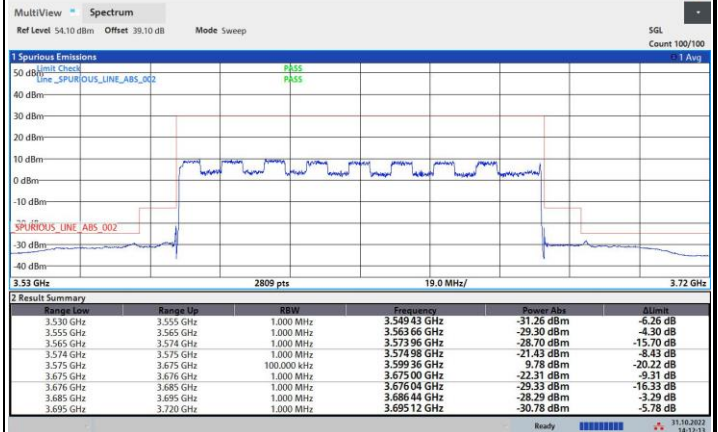
FR1 n48 / 100MHz / Middle Channel / MASK

QPSK



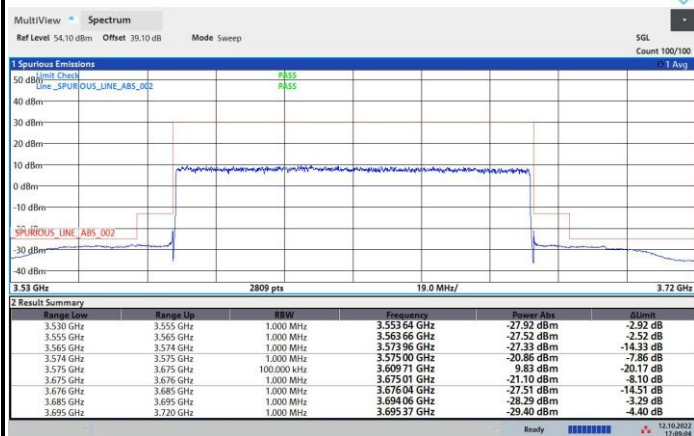
18:10:16 08.11.2022

16QAM



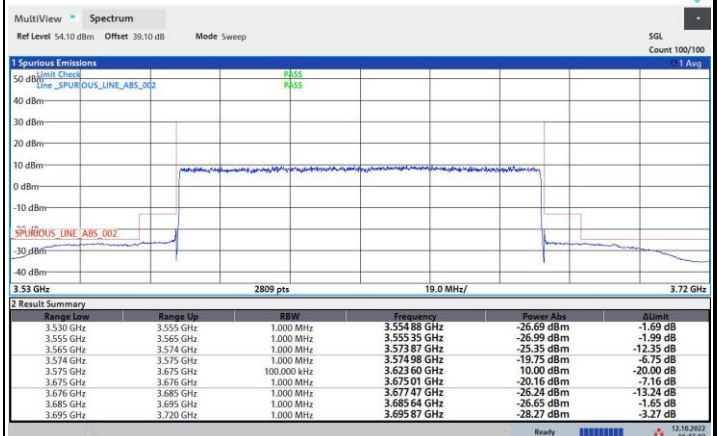
14:12:14 31.10.2022

64QAM



17:09:06 12.10.2022

256QAM

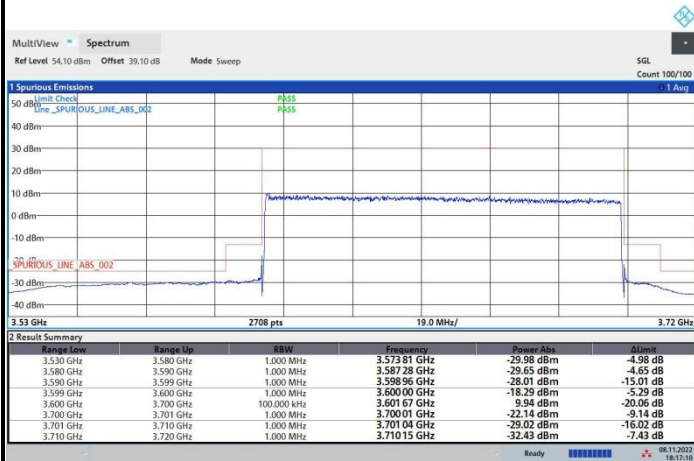


16:47:08 12.10.2022



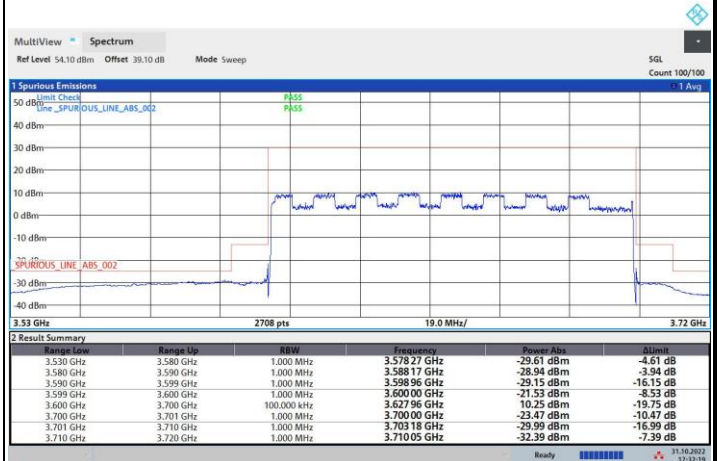
FR1 n48 / 100MHz / Highest Channel / MASK

QPSK



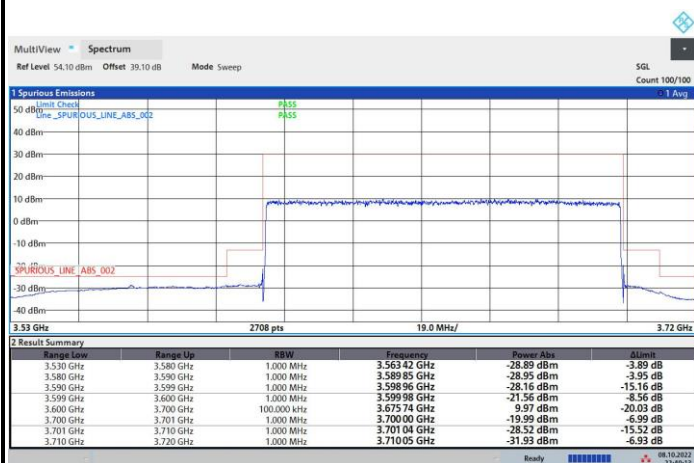
18:17:10 08.11.2022

16QAM



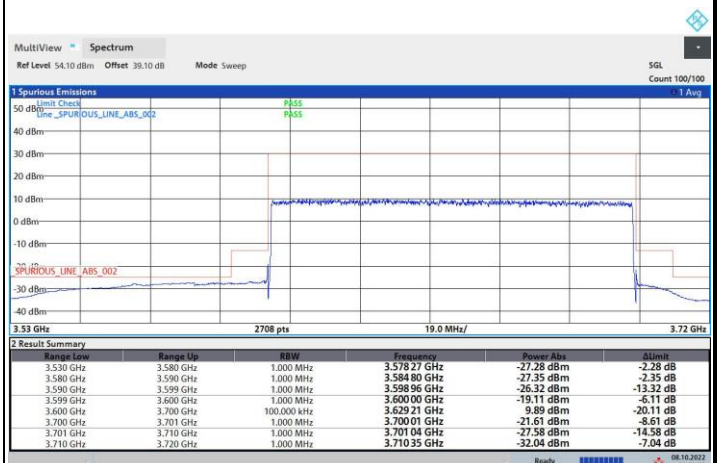
17:32:19 31.10.2022

64QAM



22:40:14 08.10.2022

256QAM



14:01:09 08.10.2022



Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

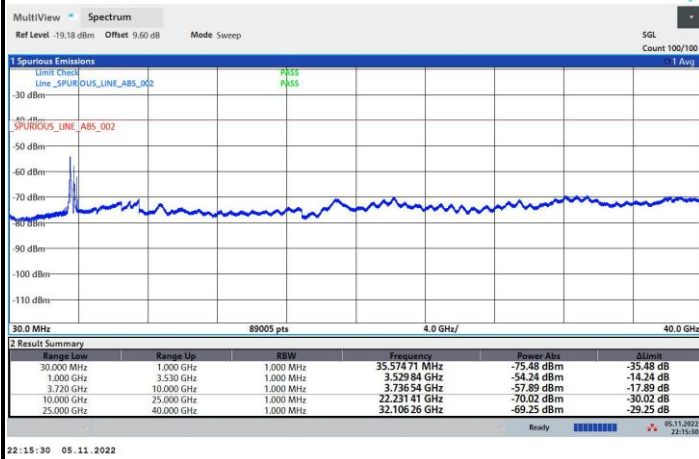
Lowest Channel



Middle Channel



Highest Channel





FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel



14:18:04 05.11.2022

Middle Channel



15:41:28 05.11.2022

Highest Channel



22:06:40 05.11.2022



FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel



13:54:38 05.11.2022

Middle Channel



17:29:57 05.11.2022

Highest Channel



21:40:48 05.11.2022



FR1 n48 / 50MHz / QPSK / CSE

Lowest Channel



13:41:57 05.11.2022

Middle Channel



17:32:39 05.11.2022

Highest Channel

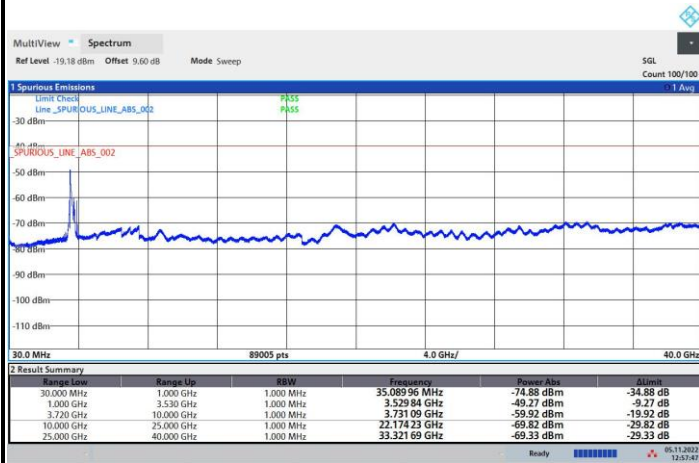


21:26:56 05.11.2022



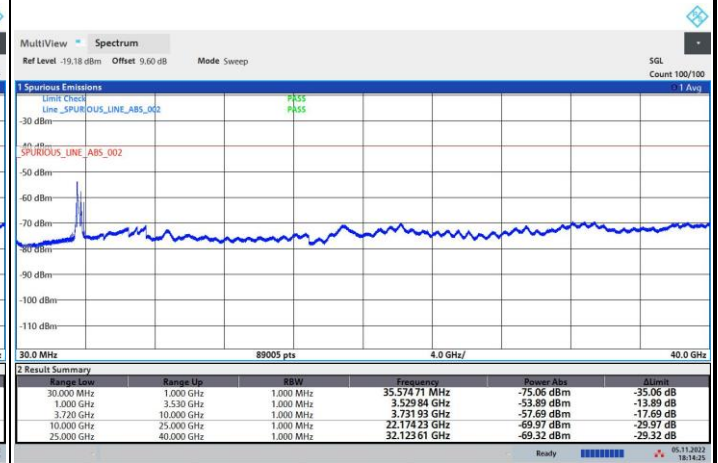
FR1 n48 / 60MHz / QPSK / CSE

Lowest Channel



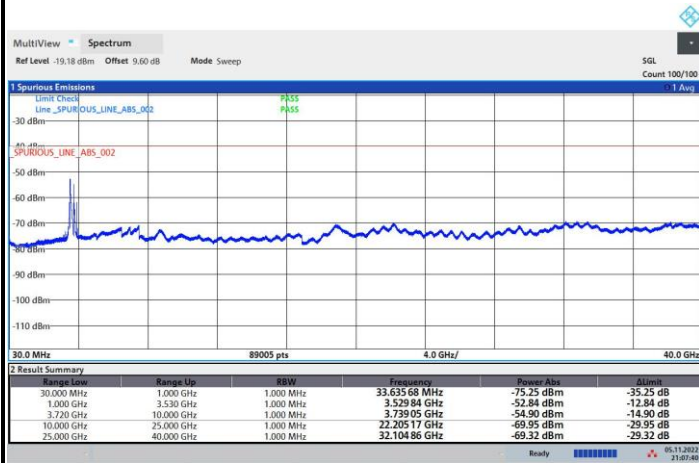
12:57:48 05.11.2022

Middle Channel



18:14:26 05.11.2022

Highest Channel



21:07:40 05.11.2022



FR1 n48 / 80MHz / QPSK / CSE

Lowest Channel



12:49:17 05.11.2022

Middle Channel



21:09:21 05.11.2022

Highest Channel

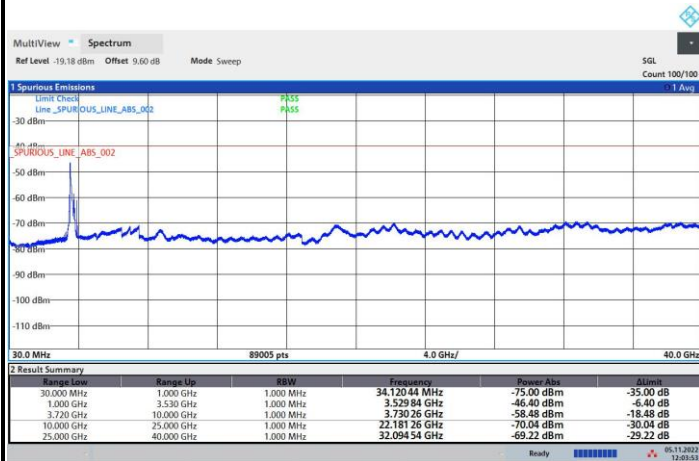


21:03:53 05.11.2022



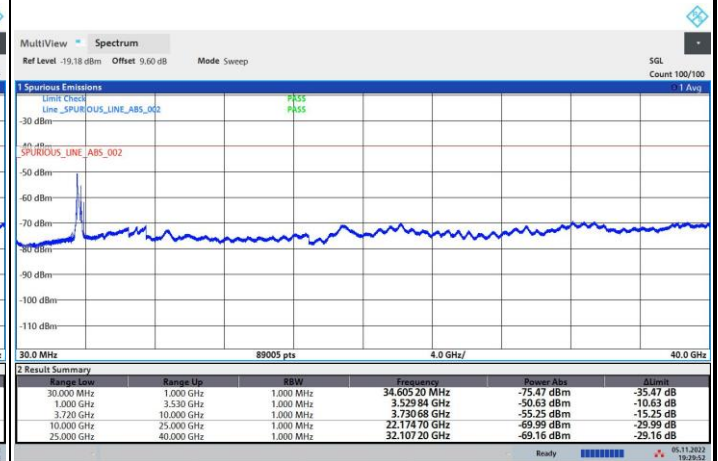
FR1 n48 / 90MHz / QPSK / CSE

Lowest Channel



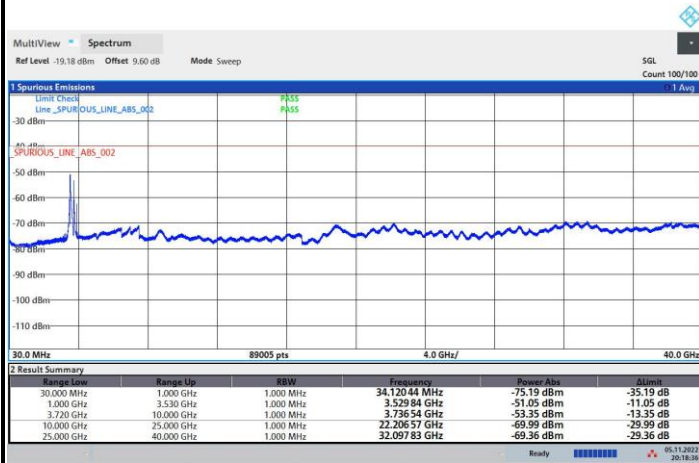
12:03:54 05.11.2022

Middle Channel



19:29:52 05.11.2022

Highest Channel



20:18:37 05.11.2022



FR1 n48 / 100MHz / QPSK / CSE

Lowest Channel



11:56:11 05.11.2022

Middle Channel



19:35:58 05.11.2022

Highest Channel



20:15:17 05.11.2022

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	0.0028	PASS
40	Normal Voltage	0.0102	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0050	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0055	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0041	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0074	
20	Minimum Voltage	0.0086	

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 / PI/2 BPSK									
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	-55.11	-40	-15.11	-52.51	-64.57	1.84	11.30	H
	10820	-52.50	-40	-12.50	-54.44	-60.89	2.22	10.61	H
	14401	-48.25	-40	-8.25	-56.17	-57.78	2.63	12.16	H
	18000	-61.65	-40	-21.65	-72.05	-45.39	23.16	6.90	H
	21600	-62.25	-40	-22.25	-76.31	-77.35	3.40	18.50	H
	25200	-60.24	-40	-20.24	-77.54	-75.13	3.75	18.64	H
									H
	7200	-43.44	-40	-3.44	-41.24	-52.90	1.84	11.30	V
	10820	-54.02	-40	-14.02	-55.64	-62.41	2.22	10.61	V
	14401	-46.85	-40	-6.85	-55.07	-56.38	2.63	12.16	V
	18000	-61.86	-40	-21.86	-71.95	-45.60	23.16	6.90	V
	21600	-62.50	-40	-22.50	-76.24	-77.60	3.40	18.50	V
	25200	-60.37	-40	-20.37	-77.38	-75.26	3.75	18.64	V
Middle	7250	-57.66	-40	-17.66	-55.18	-67.12	1.87	11.33	H
	10875	-53.13	-40	-13.13	-55.18	-61.49	2.21	10.58	H
	14500	-47.73	-40	-7.73	-55.74	-57.21	2.62	12.10	H
	18125	-61.34	-40	-21.34	-71.86	-75.71	3.23	17.60	H
	21750	-62.77	-40	-22.77	-76.98	-77.98	3.44	18.65	H
	25375	-59.89	-40	-19.89	-77.21	-74.95	3.79	18.85	H
									H
	7250	-56.47	-40	-16.47	-54.31	-65.93	1.87	11.33	V
	10875	-53.78	-40	-13.78	-55.62	-62.14	2.21	10.58	V
	14500	-47.41	-40	-7.41	-55.93	-56.89	2.62	12.10	V
	18125	-61.88	-40	-21.88	-72.11	-76.25	3.23	17.60	V
	21750	-62.32	-40	-22.32	-76.19	-77.53	3.44	18.65	V
	25375	-59.66	-40	-19.66	-76.7	-74.72	3.79	18.85	V



Highest	7300	-55.98	-40	-15.98	-53.61	-65.44	1.89	11.35	H
	10950	-51.63	-40	-11.63	-53.82	-59.95	2.21	10.53	H
	14600	-48.57	-40	-8.57	-56.62	-58.28	2.61	12.32	H
	18250	-63.07	-40	-23.07	-73.7	-77.43	3.24	17.60	H
	21900	-62.71	-40	-22.71	-77.07	-78.03	3.48	18.80	H
	25550	-60.70	-40	-20.70	-78.1	-75.88	3.83	19.01	H
									H
	7300	-44.44	-40	-4.44	-42.31	-53.90	1.89	11.35	V
	10950	-53.70	-40	-13.70	-55.76	-62.02	2.21	10.53	V
	14600	-44.71	-40	-4.71	-53.47	-54.42	2.61	12.32	V
	18250	-63.91	-40	-23.91	-74.28	-78.27	3.24	17.60	V
	21900	-63.13	-40	-23.13	-77.13	-78.45	3.48	18.80	V
	25550	-60.79	-40	-20.79	-77.92	-75.97	3.83	19.01	V
									V

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