Appendix B.30

NR Band n13

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Effective (Isotropic) Radiated Power Output Data for SA

Test ResultAnt7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.7	10.6	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.61	10.51	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Outer_Full	23.06	9.96	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	23.67	10.57	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	23.72	10.62	34.77	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	22.6	9.5	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	22.77	9.67	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	22.74	9.64	34.77	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	21.62	8.52	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	21.49	8.39	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Right	21.39	8.29	34.77	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	21.13	8.03	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	19.11	6.01	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.08	5.98	34.77	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	18.98	5.88	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.72	10.62	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.46	10.36	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	23.01	9.91	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Left	23.53	10.43	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Right	23.44	10.34	34.77	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	22.63	9.53	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Left	22.66	9.56	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Right	22.71	9.61	34.77	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	21.74	8.64	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Left	21.28	8.18	34.77	PASS

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N13	15	5	DFT-64QAM	M	Inner_1RB_Right	21.28	8.18	34.77	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	21.02	7.92	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Left	19.23	6.13	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.14	6.04	34.77	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	18.94	5.84	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.62	10.52	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.52	10.42	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	22.92	9.82	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Left	23.65	10.55	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Right	23.33	10.23	34.77	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	22.47	9.37	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Left	22.52	9.42	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Right	22.44	9.34	34.77	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	21.6	8.5	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Left	21.43	8.33	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Right	21.14	8.04	34.77	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	21.02	7.92	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Left	19.05	5.95	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Right	19.04	5.94	34.77	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	18.97	5.87	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.76	10.66	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.55	10.45	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	23.11	10.01	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Left	23.93	10.83	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Right	23.33	10.23	34.77	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	22.41	9.31	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Left	22.85	9.75	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Right	22.5	9.4	34.77	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	21.56	8.46	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Left	21.56	8.46	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Right	21.27	8.17	34.77	PASS

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N13	15	10	DFT-64QAM	M	Outer_Full	20.97	7.87	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Left	19.32	6.22	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Right	19.02	5.92	34.77	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	19.02	5.92	34.77	PASS

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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N13	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.54	≤13	PASS
N13	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.42	≤13	PASS

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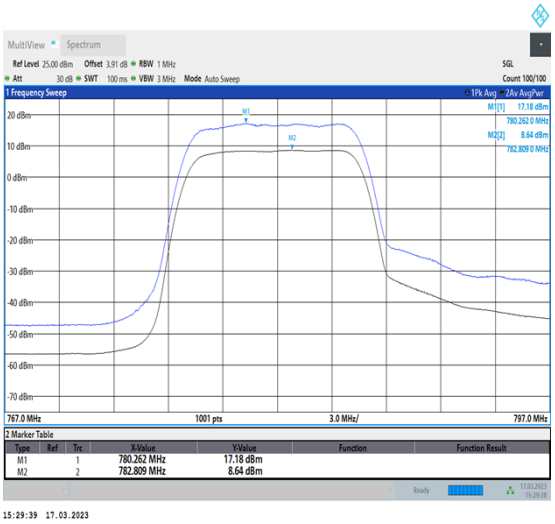
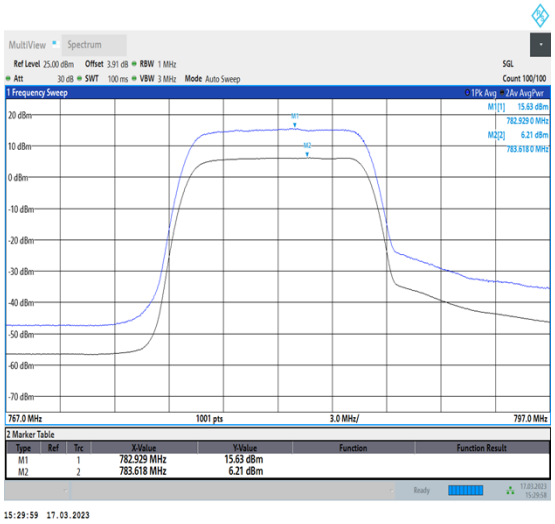
Test Graphs



1-N13-PC3-15-10-M-1-DFT-256QAM-Outer_Full-50@0-Ant7-8.54-100%-0.00-8.54-PASS-≤13



1-N13-PC3-15-10-M-2-CP-256QAM-Outer_Full-52@0-Ant7-9.42-100%-0.00-9.42-PASS-≤13

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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	4.471	4.810	PASS
N13	15	5	DFT-PI2BPSK	L	Outer_Full	4.468	4.810	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	4.458	4.780	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	4.468	4.870	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	4.462	4.760	PASS
N13	15	5	CP-QPSK	L	Outer_Full	4.464	4.830	PASS
N13	15	5	CP-16QAM	L	Outer_Full	4.472	4.800	PASS
N13	15	5	CP-64QAM	L	Outer_Full	4.459	4.800	PASS
N13	15	5	CP-256QAM	L	Outer_Full	4.483	4.810	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	4.468	4.770	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	4.469	4.760	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	4.455	4.820	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	4.461	4.800	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	4.454	4.790	PASS
N13	15	5	CP-QPSK	M	Outer_Full	4.477	4.870	PASS
N13	15	5	CP-16QAM	M	Outer_Full	4.472	4.810	PASS
N13	15	5	CP-64QAM	M	Outer_Full	4.465	4.780	PASS
N13	15	5	CP-256QAM	M	Outer_Full	4.466	4.800	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	4.476	4.830	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	4.475	4.790	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	4.465	4.820	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	4.468	4.840	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	4.475	4.830	PASS
N13	15	5	CP-QPSK	H	Outer_Full	4.477	4.850	PASS
N13	15	5	CP-16QAM	H	Outer_Full	4.47	4.820	PASS
N13	15	5	CP-64QAM	H	Outer_Full	4.469	4.810	PASS
N13	15	5	CP-256QAM	H	Outer_Full	4.471	4.830	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	8.908	9.420	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	8.904	9.360	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	8.907	9.420	PASS

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N13	15	10	DFT-64QAM	M	Outer_Full	8.915	9.420	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	8.921	9.420	PASS
N13	15	10	CP-QPSK	M	Outer_Full	9.261	9.740	PASS
N13	15	10	CP-16QAM	M	Outer_Full	9.3	9.780	PASS
N13	15	10	CP-64QAM	M	Outer_Full	9.269	9.760	PASS
N13	15	10	CP-256QAM	M	Outer_Full	9.273	9.720	PASS

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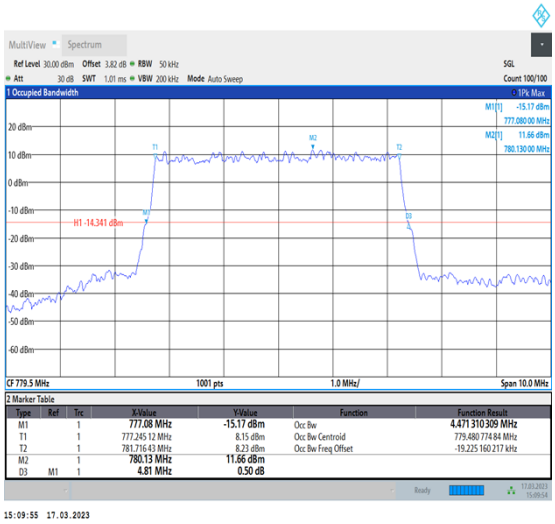
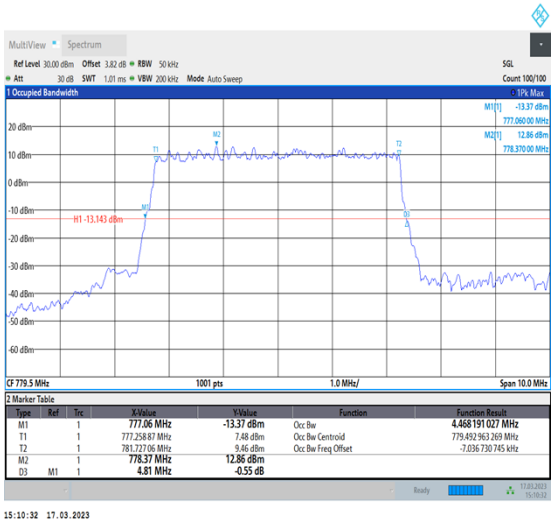
Test Graphs



1-N13-PC3-15-5-L-1-DFT-QPSK-Outer_Full-25@0-Ant7-4.471-4.810-≤5-PASS



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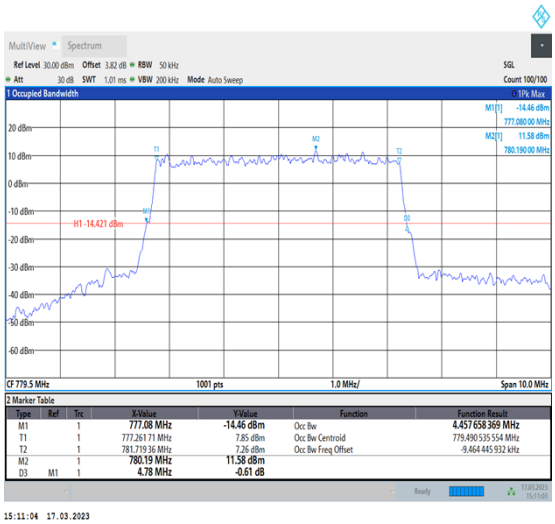

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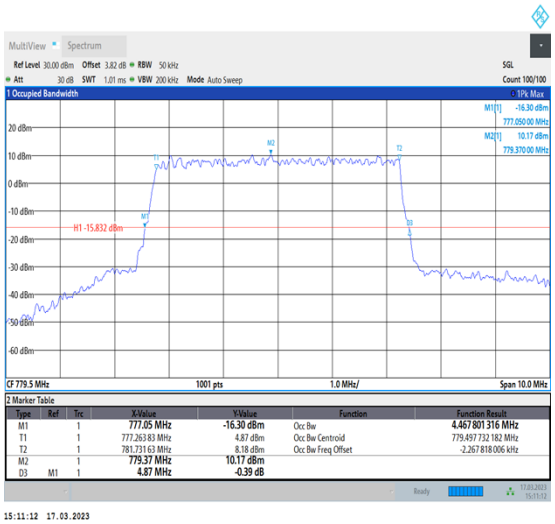

1-N13-PC3-15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant7-4.468-4.870-≤5-PASS

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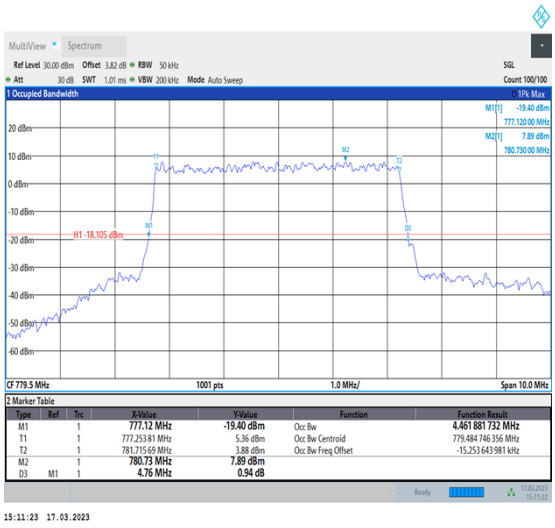

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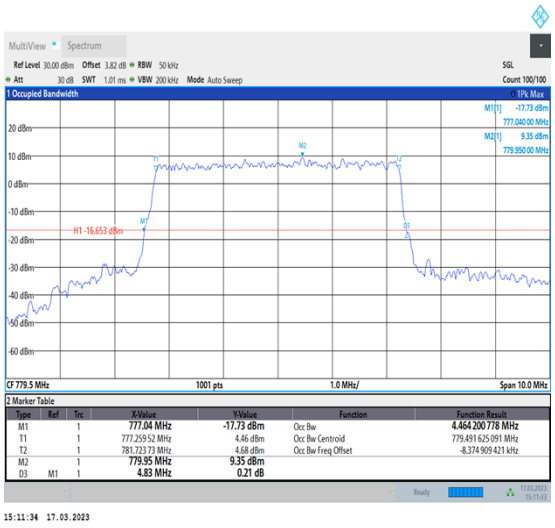

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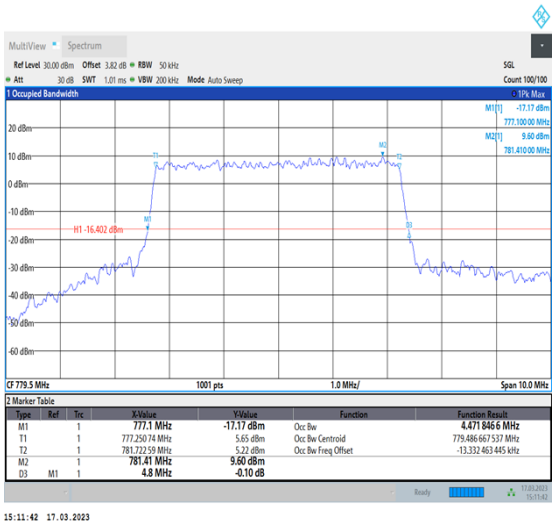

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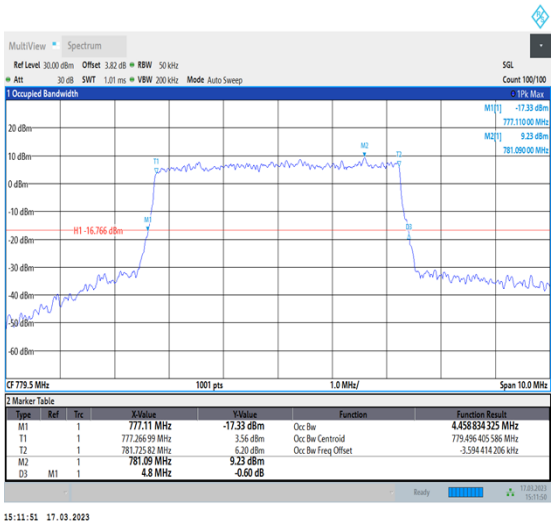

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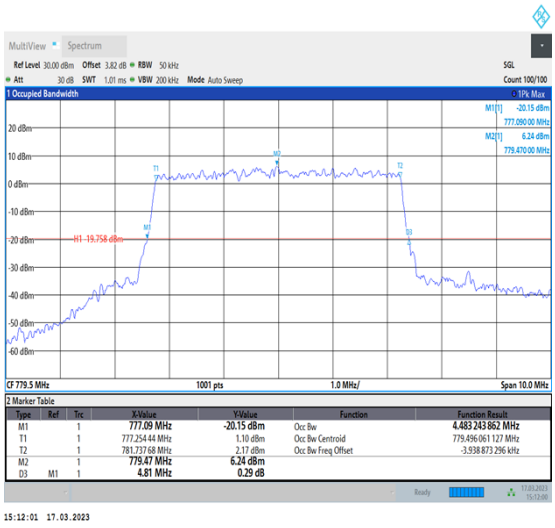

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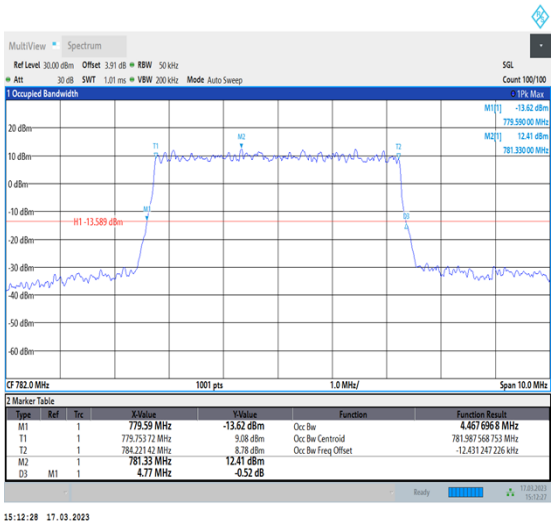

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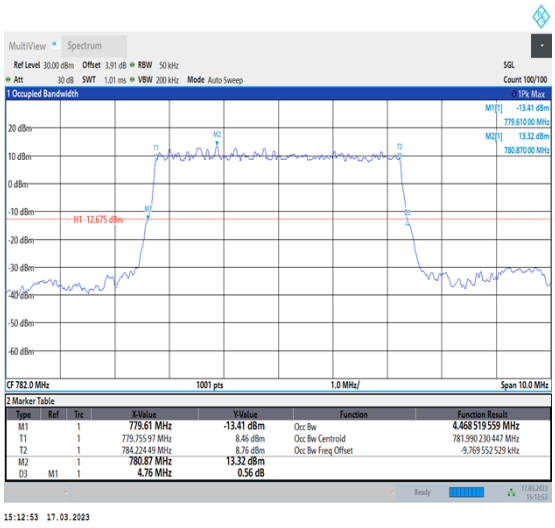

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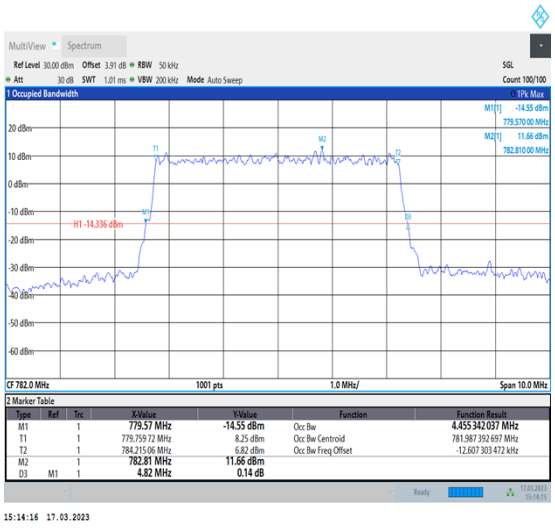

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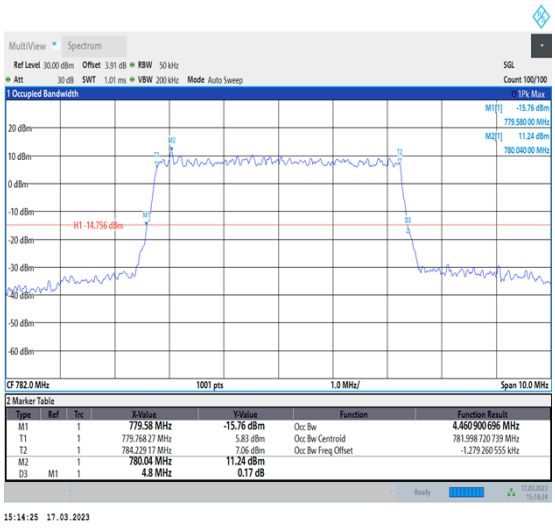

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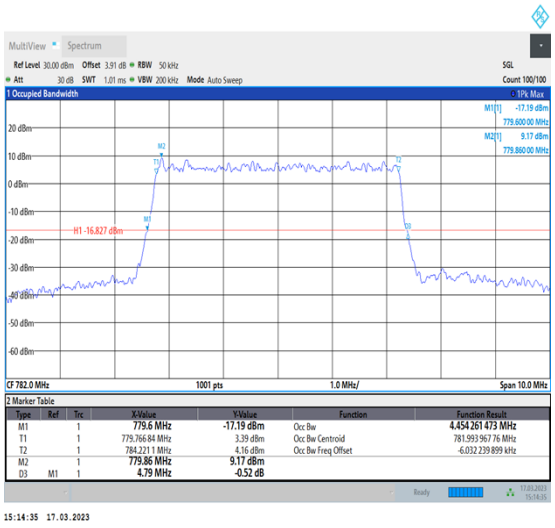

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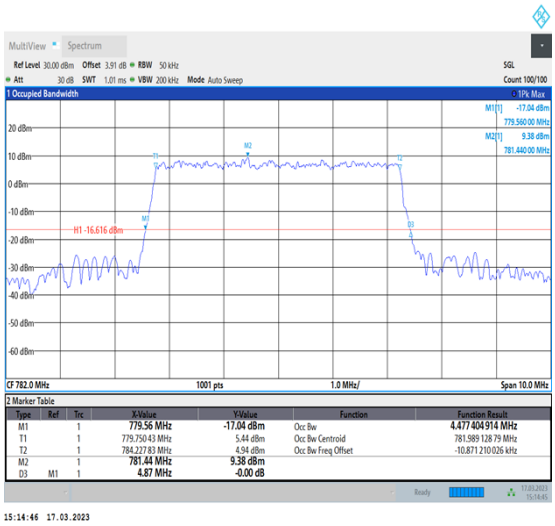

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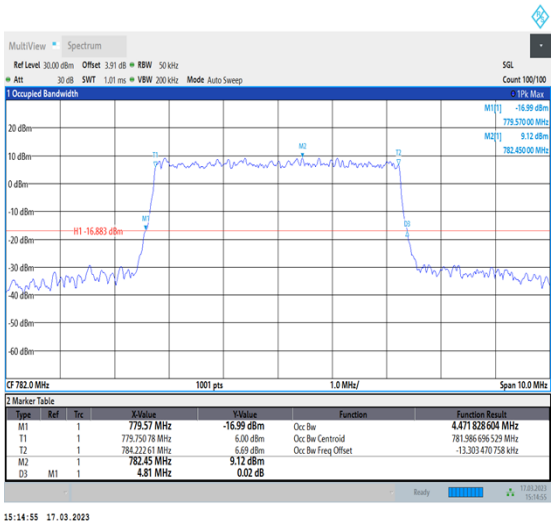

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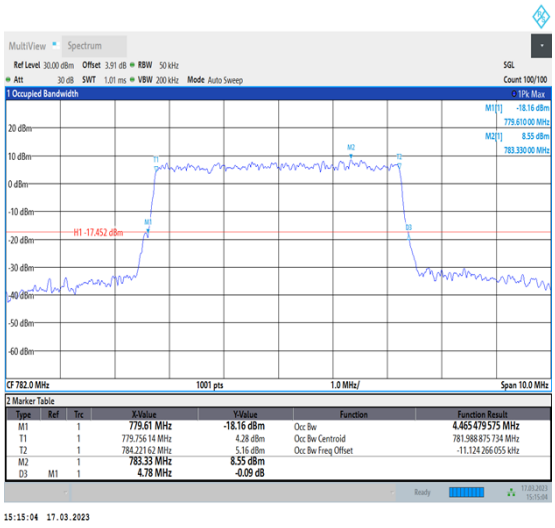

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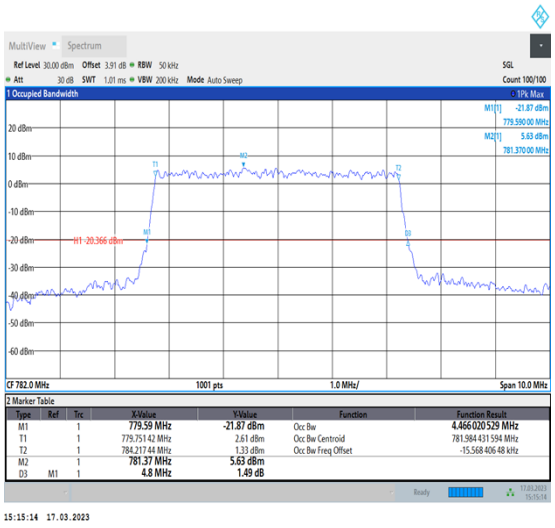

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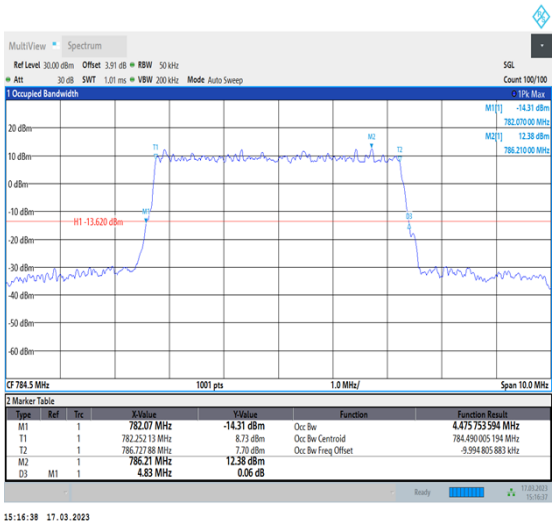

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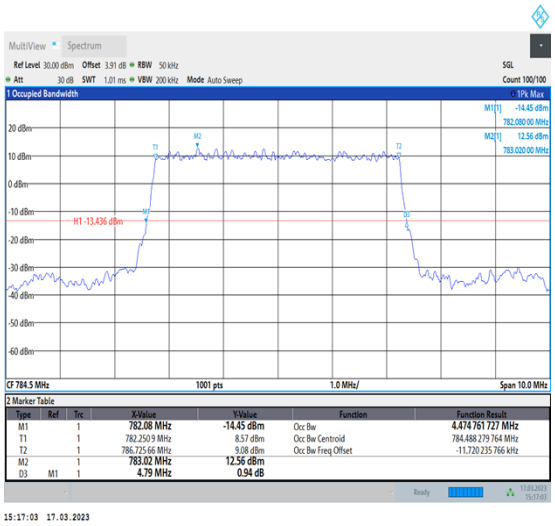

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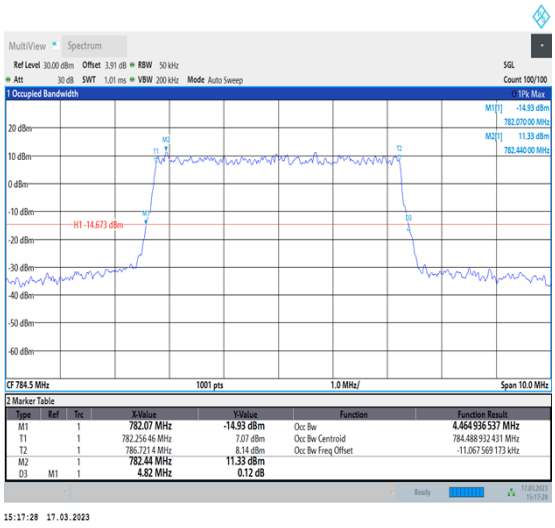

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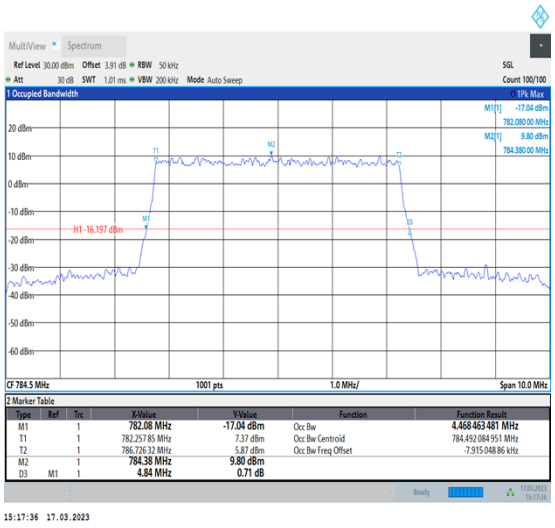

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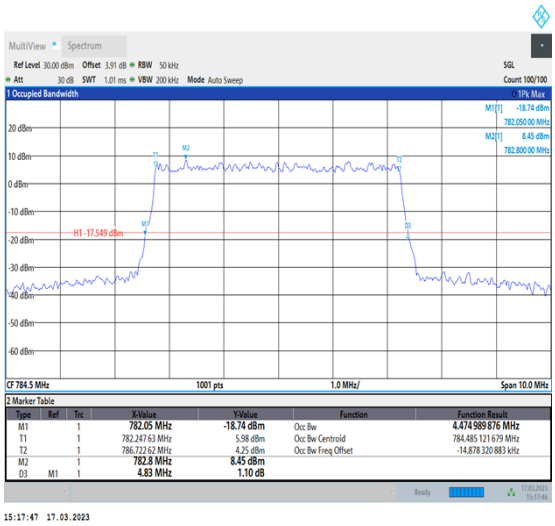

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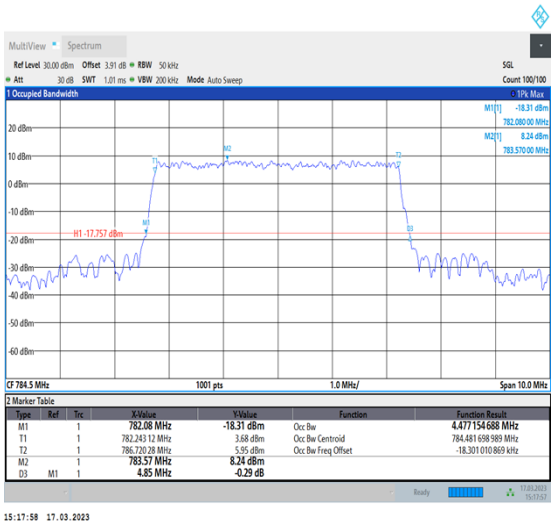

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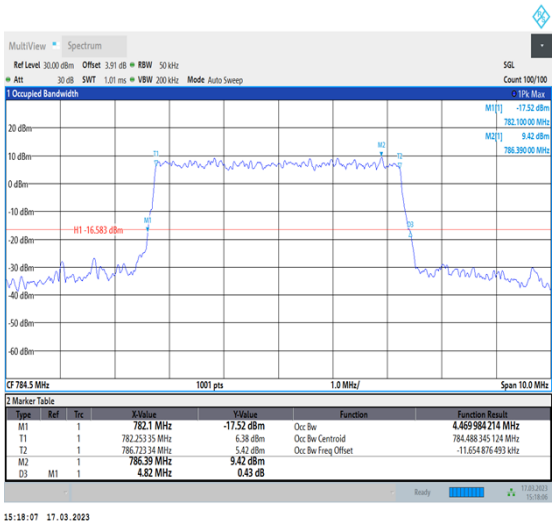

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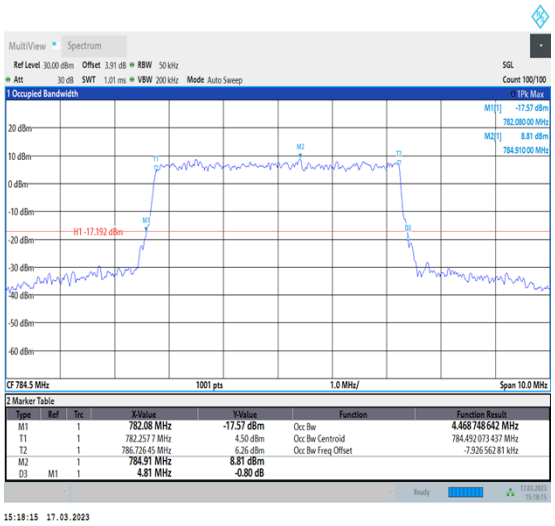

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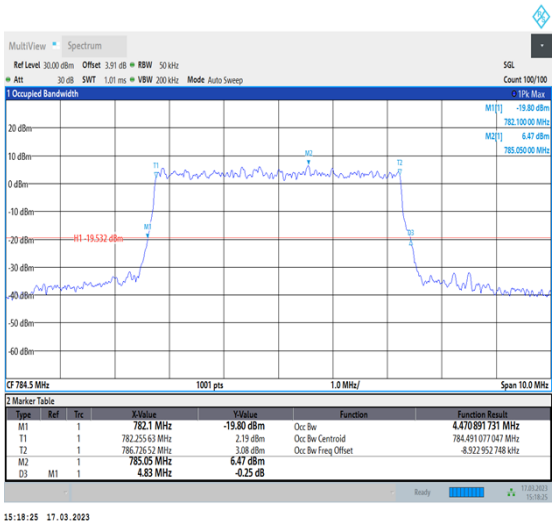

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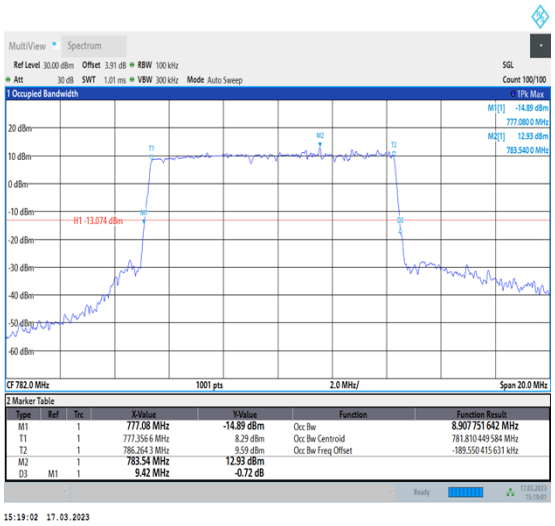

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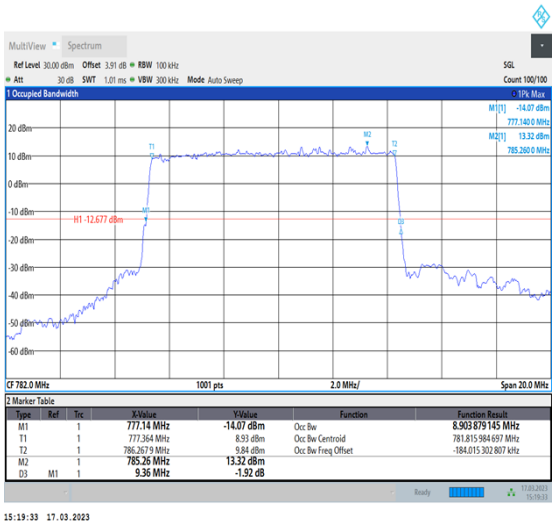

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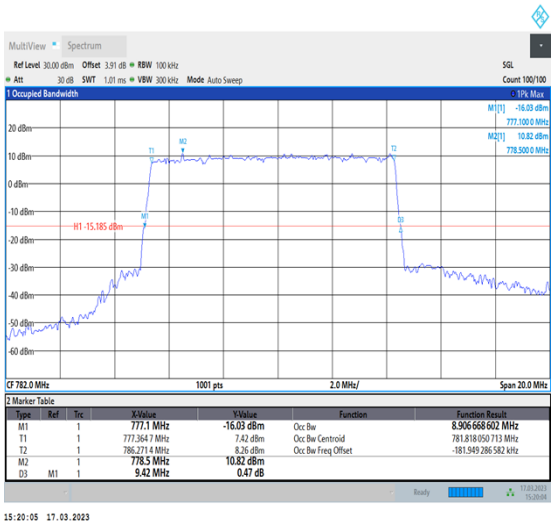

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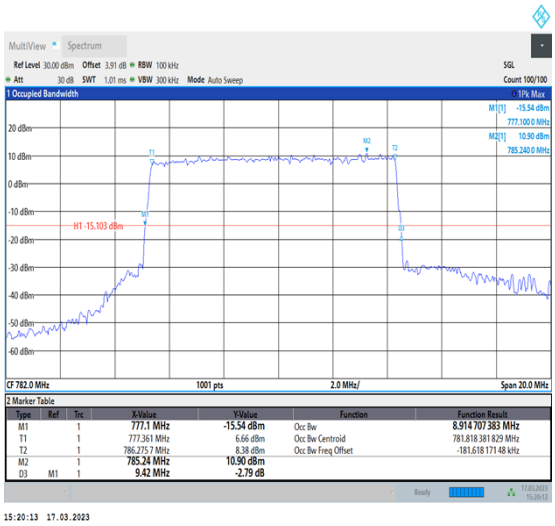

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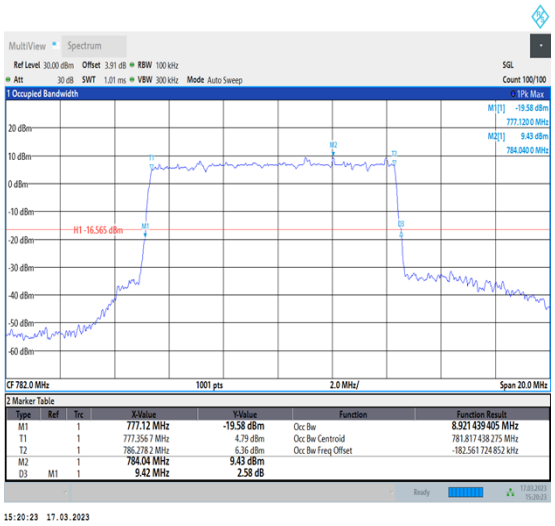

1-N13-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant7-8.921-9.420-≤10-PASS

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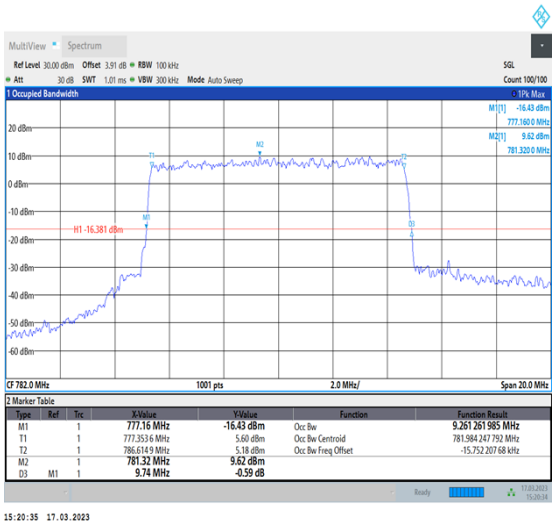

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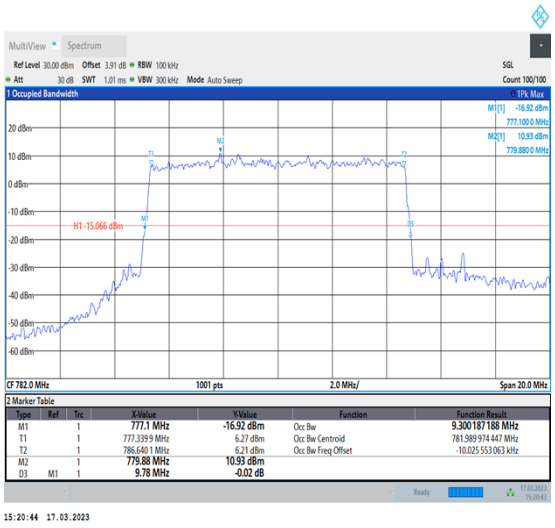

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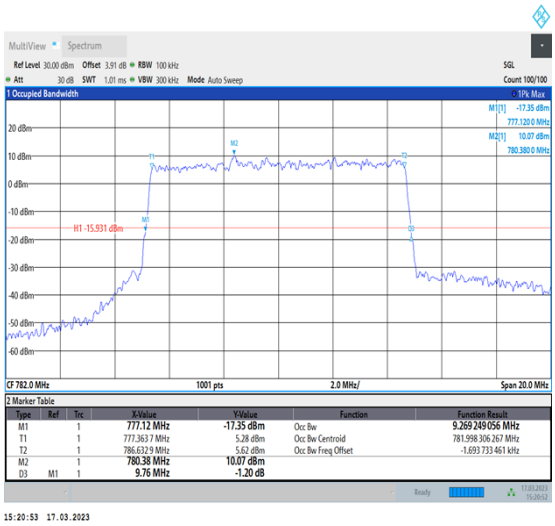

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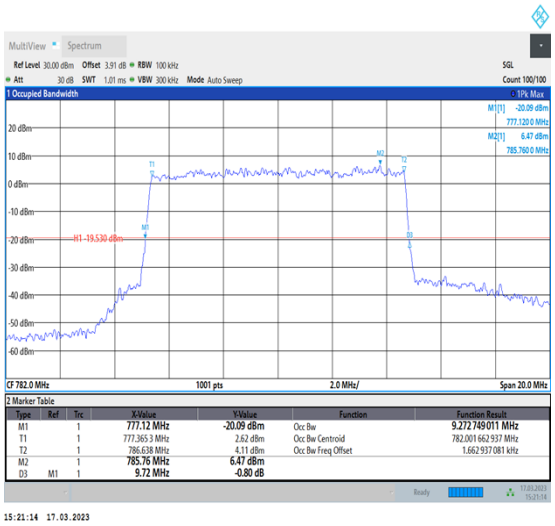

1-N13-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant7-9.273-9.720-≤10-PASS

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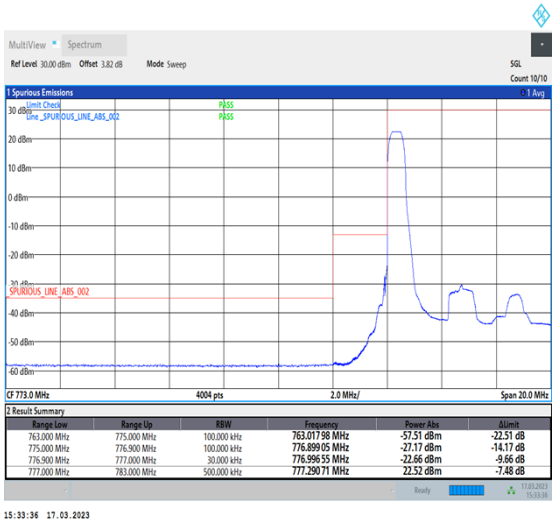
Band Edge for SA

Test Graphs



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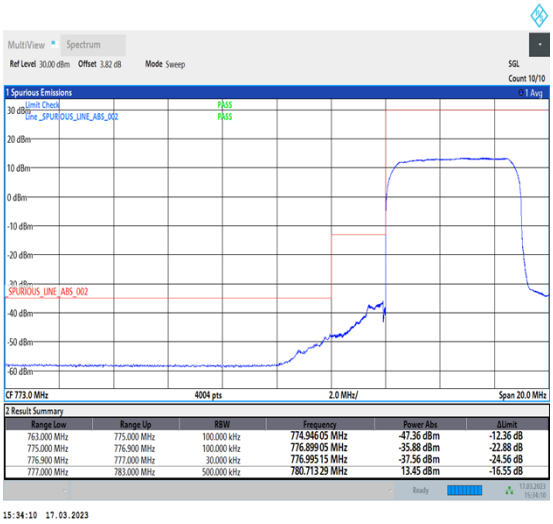

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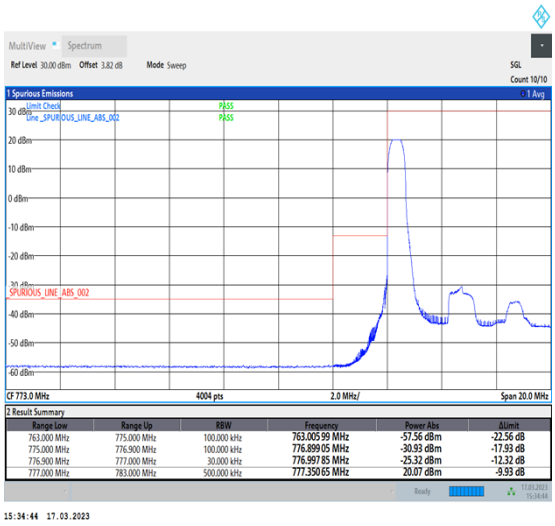

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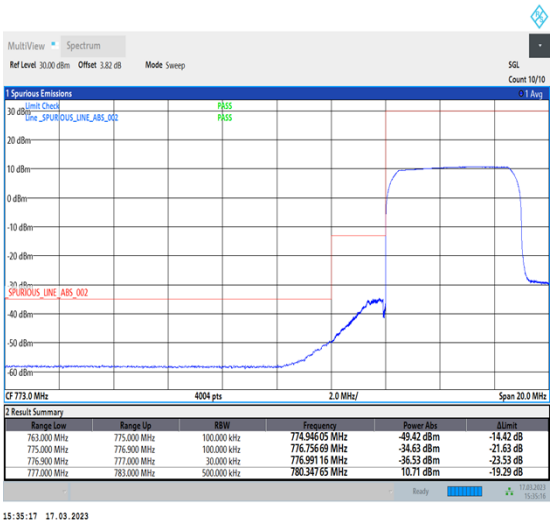

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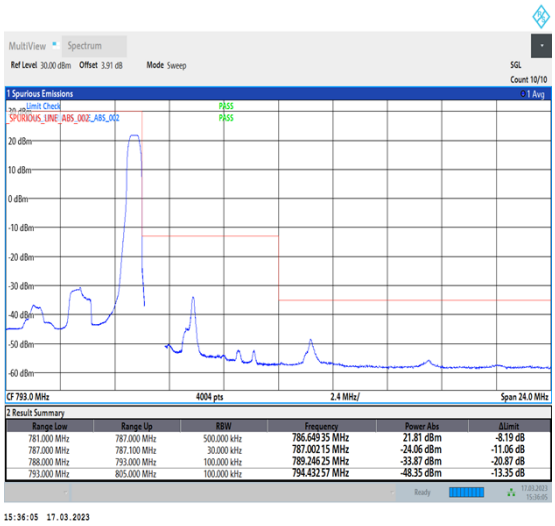

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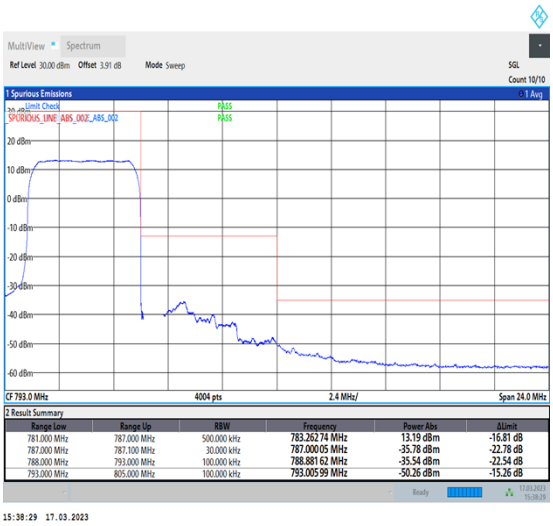

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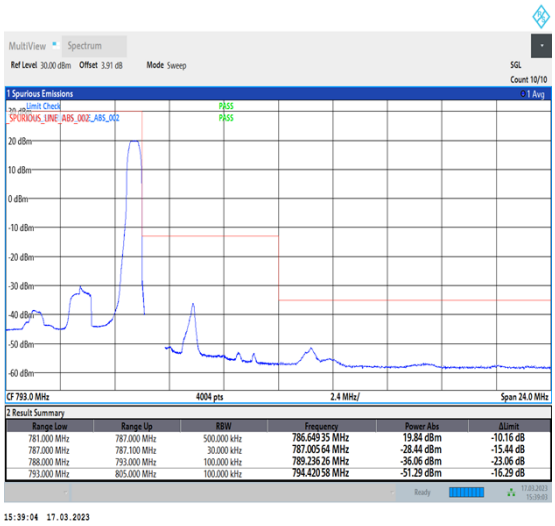

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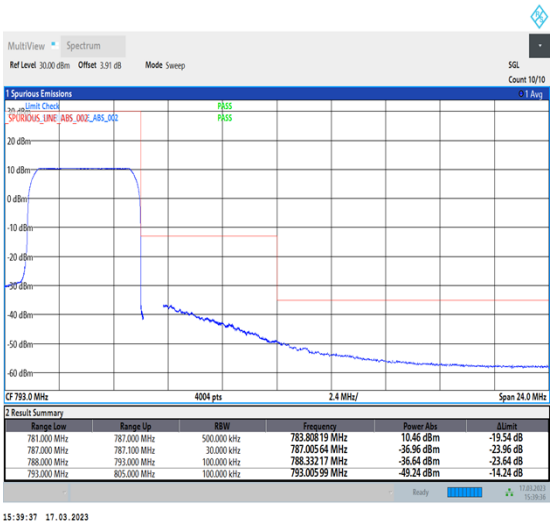

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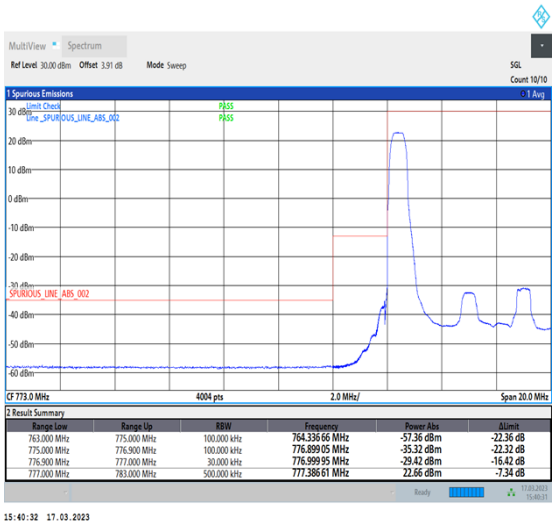

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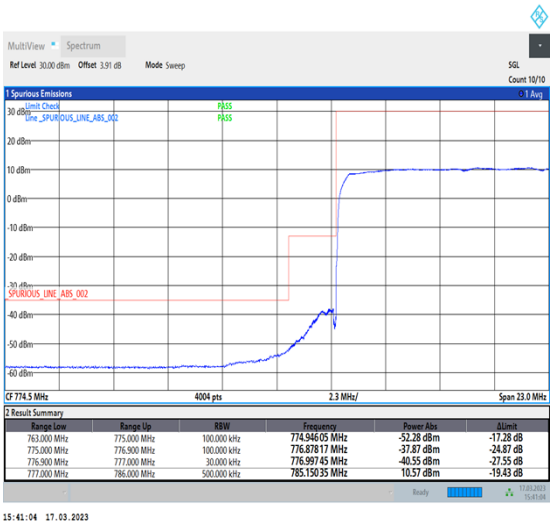

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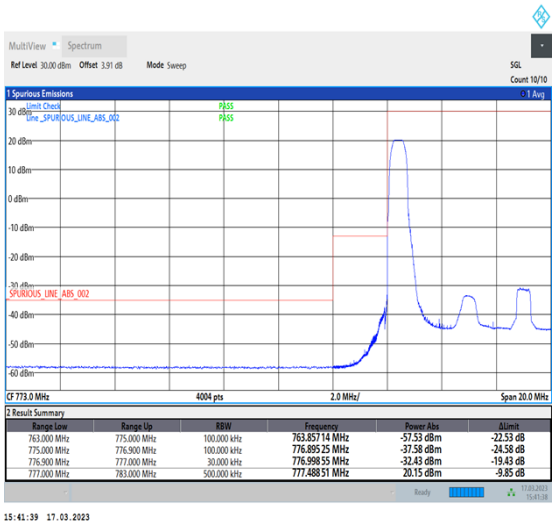

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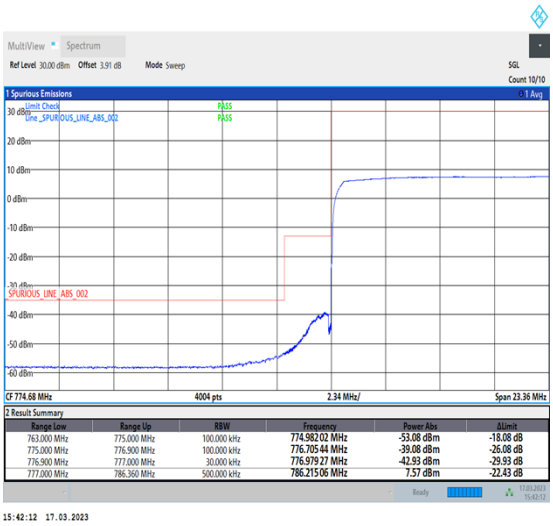

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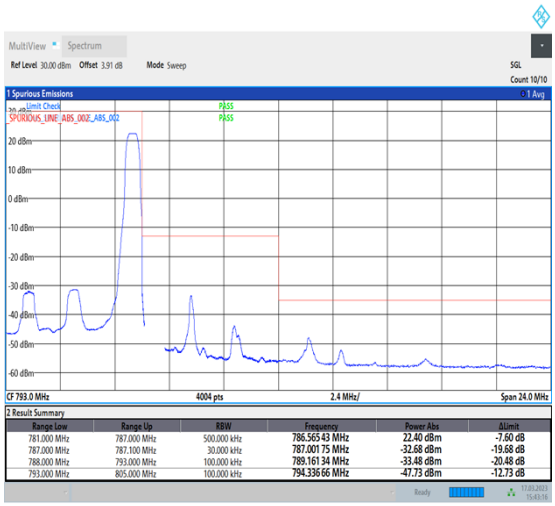

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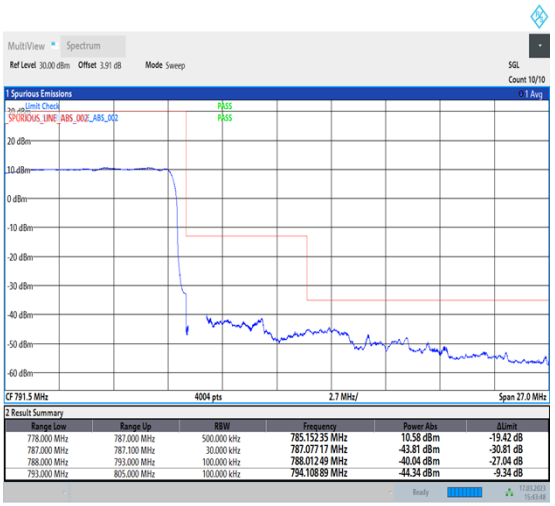

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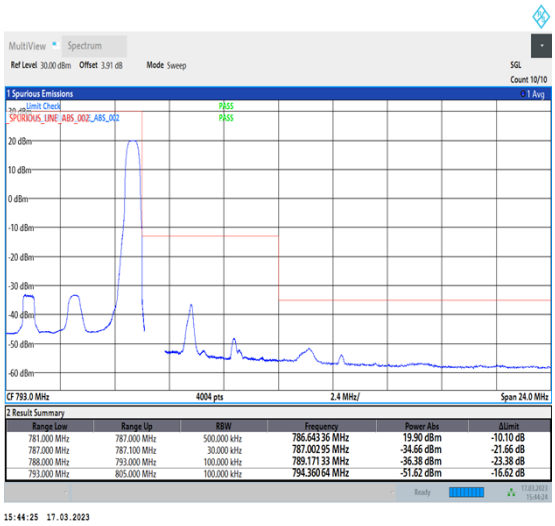

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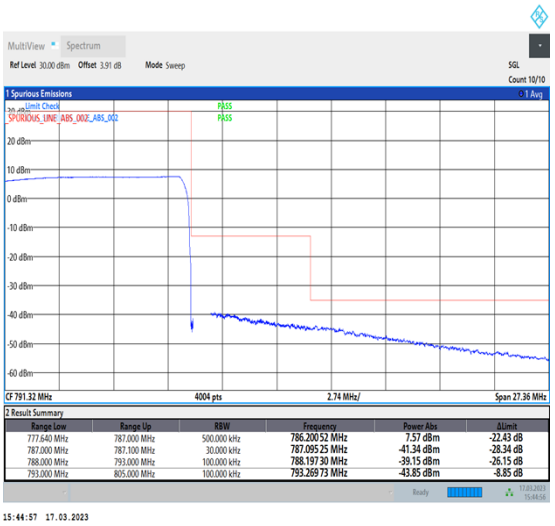

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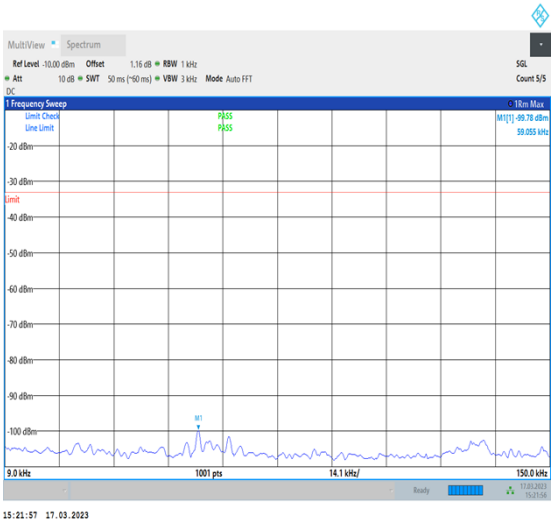
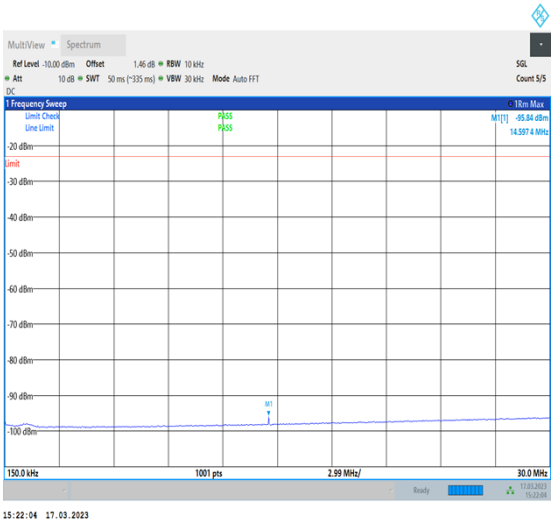
Test Graphs



1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant7-0.06--99.78--33-PASS



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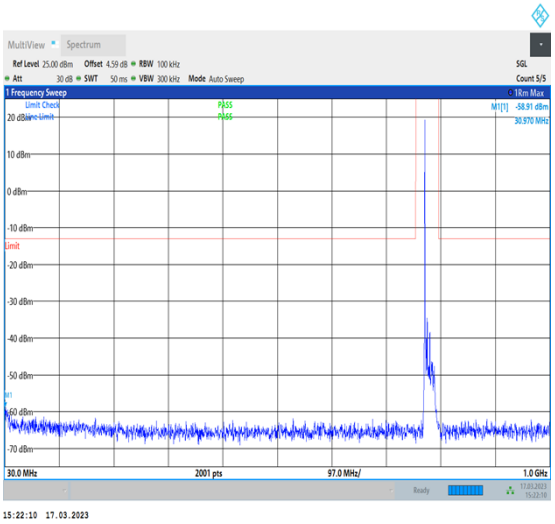
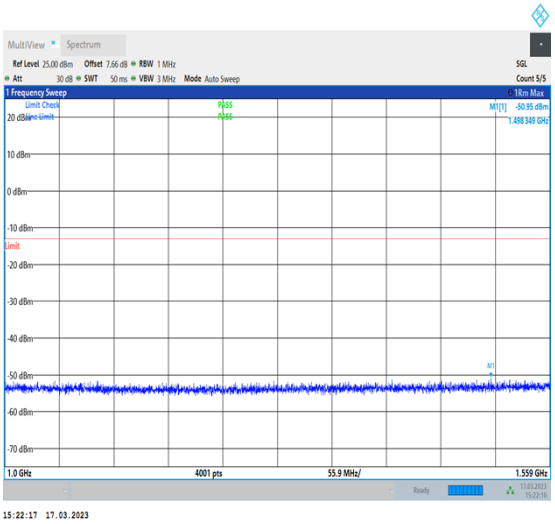


1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant7-30.97--58.91--13-PASS



1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-1559-Ant7-1498.35--50.95--13-PASS

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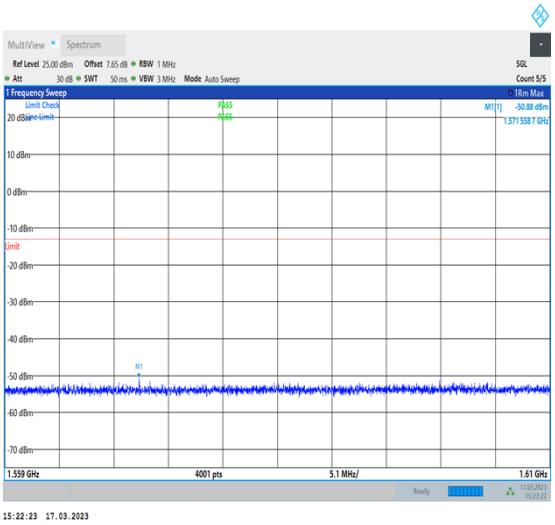

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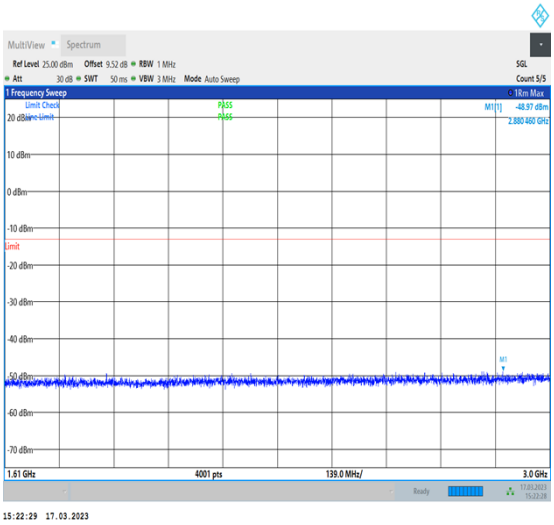

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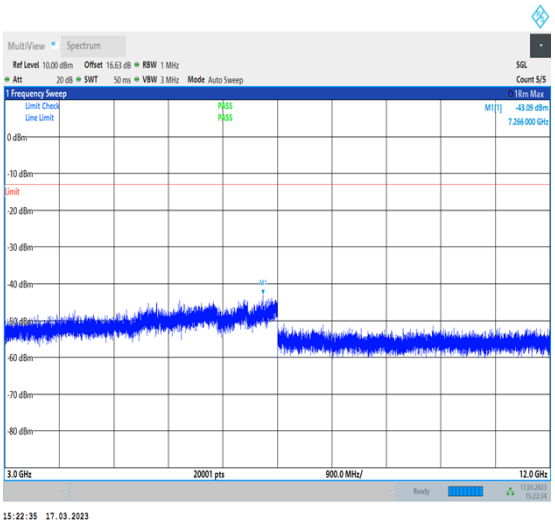

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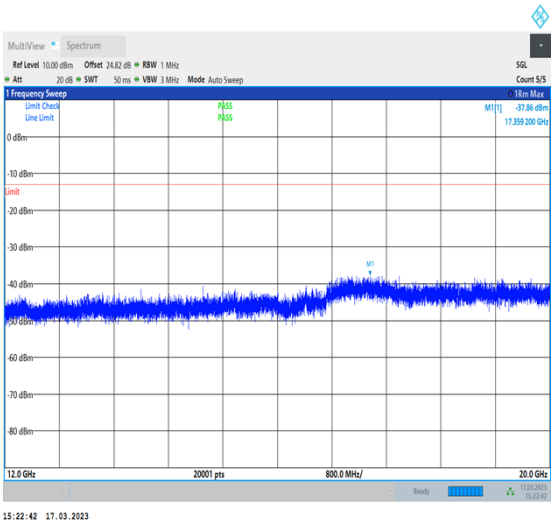

1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant7-17359.20--37.86--13-PASS

Note：The limit of 1559-1610MHZ is -40dBm, and the worst point meets the limit requirement

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Field Strength of Spurious Radiation

Test Band = SA Band13_10MHz_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1718.8571	56.83	-48.12	25.40	-61.15	-13.00	48.15	244	301	Horizontal
2	2386.2857	44.76	-47.46	27.43	-70.52	-13.00	57.52	154	360	Horizontal
3	3125.1429	50.98	-46.63	29.56	-61.36	-13.00	48.36	126	56	Horizontal
4	3837.7143	42.92	-46.19	30.42	-68.11	-13.00	55.11	251	358	Horizontal
5	4844	47.11	-45.61	32.44	-61.32	-13.00	48.32	143	116	Horizontal
6	5972	41.64	-44.58	34.08	-64.12	-13.00	51.12	188	63	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1718.8571	63.75	-48.12	25.40	-54.23	-13.00	41.23	126	201	Vertical
2	2030.8571	48.99	-47.84	26.75	-67.36	-13.00	54.36	255	19	Vertical
3	3125.1429	47.69	-46.63	29.56	-64.65	-13.00	51.65	148	76	Vertical
4	4531.4286	47.45	-45.66	31.64	-61.83	-13.00	48.83	173	30	Vertical
5	4844	51.48	-45.61	32.44	-56.95	-13.00	43.95	216	124	Vertical
6	5937.1429	42.11	-44.77	34.01	-63.91	-13.00	50.91	230	247	Vertical

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Test Band = SA Band13_5MHz_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1592.5714	45.45	-48.28	25.36	-72.73	-40.00	32.73	155	0	Horizontal
2	1850.2857	44.45	-48.00	25.73	-73.08	-13.00	60.08	176	162	Horizontal
3	2400	44.28	-47.45	27.44	-70.99	-13.00	57.99	142	268	Horizontal
4	3125.1429	50.53	-46.63	29.56	-61.81	-13.00	48.81	136	58	Horizontal
5	4843.4286	46.80	-45.61	32.44	-61.63	-13.00	48.63	299	104	Horizontal
6	6469.1429	41.31	-44.68	34.90	-63.72	-13.00	50.72	215	176	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.7143	45.04	-48.29	25.37	-73.13	-40.00	33.13	288	240	Vertical
2	2031.4286	49.55	-47.84	26.75	-66.80	-13.00	53.80	174	190	Vertical
3	3147.4286	43.72	-46.53	29.59	-68.48	-13.00	55.48	159	356	Vertical
4	3976.5714	43.00	-46.21	30.74	-67.72	-13.00	54.72	143	123	Vertical
5	5570.2857	41.91	-45.23	32.99	-65.59	-13.00	52.59	261	63	Vertical
6	7031.4286	40.79	-43.77	36.16	-62.08	-13.00	49.08	103	360	Vertical

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Test Band = SA Band13_5MHz_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1594.8571	45.04	-48.28	25.36	-73.15	-40.00	33.15	244	169	Horizontal
2	1898.2857	44.28	-48.05	26.02	-73.00	-13.00	60.00	158	116	Horizontal
3	2715.4286	44.41	-47.03	28.32	-69.56	-13.00	56.56	174	355	Horizontal
4	3481.7143	43.71	-46.54	29.50	-68.59	-13.00	55.59	146	240	Horizontal
5	4595.4286	42.78	-45.78	31.71	-66.56	-13.00	53.56	236	210	Horizontal
6	5778.2857	41.54	-44.64	33.67	-64.69	-13.00	51.69	299	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1593.1429	44.97	-48.28	25.36	-73.21	-40.00	33.21	211	0	Vertical
2	2031.4286	49.41	-47.84	26.75	-66.94	-13.00	53.94	150	19	Vertical
3	2946.8571	43.79	-46.55	29.12	-68.90	-13.00	55.90	143	359	Vertical
4	3786.2857	42.47	-46.16	30.28	-68.67	-13.00	55.67	289	349	Vertical
5	4531.4286	46.96	-45.66	31.64	-62.32	-13.00	49.32	145	30	Vertical
6	7177.7143	40.44	-43.95	36.54	-62.23	-13.00	49.23	162	105	Vertical

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Test Band = SA Band13_5MHz_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1582.8571	44.95	-48.29	25.37	-73.22	-40.00	33.22	165	240	Horizontal
2	1874.8571	44.67	-48.02	25.88	-72.73	-13.00	59.73	148	9	Horizontal
3	2410.2857	44.94	-47.43	27.47	-70.28	-13.00	57.28	175	325	Horizontal
4	3008.5714	43.86	-46.54	29.36	-68.58	-13.00	55.58	153	3	Horizontal
5	3793.1429	42.71	-46.16	30.31	-68.40	-13.00	55.40	266	325	Horizontal
6	5536.5714	41.48	-45.19	32.95	-66.02	-13.00	53.02	219	64	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.8571	44.84	-48.29	25.37	-73.34	-40.00	33.34	255	105	Vertical
2	1848	44.64	-48.00	25.72	-72.90	-13.00	59.90	143	151	Vertical
3	2152	43.97	-47.69	27.17	-71.81	-13.00	58.81	261	92	Vertical
4	2723.4286	44.13	-47.02	28.33	-69.82	-13.00	56.82	188	349	Vertical
5	3310.8571	43.70	-46.66	29.54	-68.68	-13.00	55.68	199	282	Vertical
6	5257.7143	41.94	-45.16	32.94	-65.55	-13.00	52.55	214	6	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.300000	-0.005499	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.600000	-0.007161	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.300000	-0.005499	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VH	NT	-3.600000	-0.004604	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VN	NT	0.300000	0.000384	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VL	NT	-2.700000	-0.003453	PASS

Frequency Error VS. Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.900000	-0.007545	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-4.500000	-0.005754	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.200000	-0.004092	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-1.900000	-0.002430	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-6.800000	-0.008696	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.600000	-0.008440	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.000000	-0.006394	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-3.600000	-0.004604	PASS
N13	15	10	DFT-	M	Outer_Full	NV	50	-5.900000	-0.007545	PASS

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			PI2BPSK							
N13	15	10	CP-QPSK	M	Outer_Full	NV	-30	-2.100000	-0.002685	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-20	-2.500000	-0.003197	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-10	-2.400000	-0.003069	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	0	-1.000000	-0.001279	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	10	-3.100000	-0.003964	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	20	-1.200000	-0.001535	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	30	-0.900000	-0.001151	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	40	-4.400000	-0.005627	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	50	-1.300000	-0.001662	PASS

---End of Attachment---

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