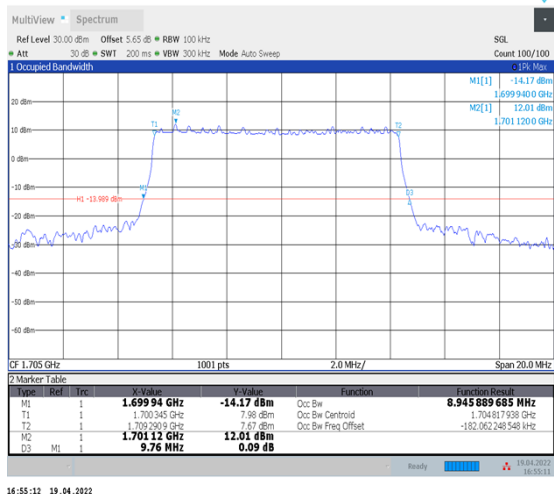


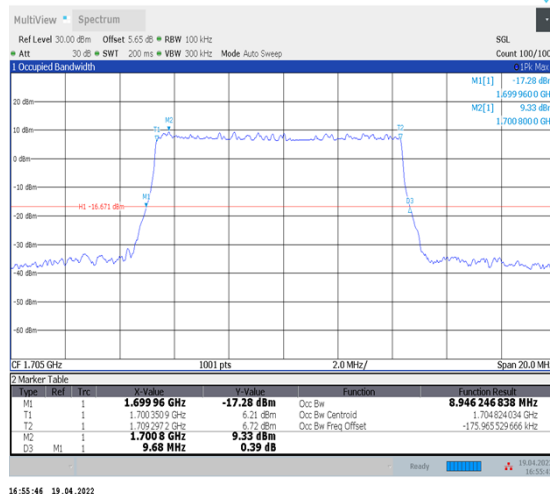
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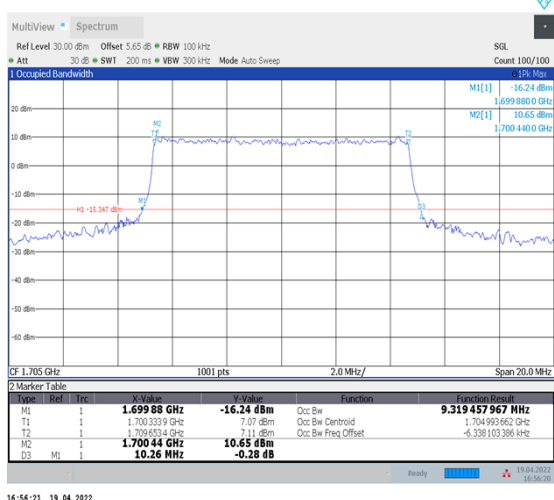
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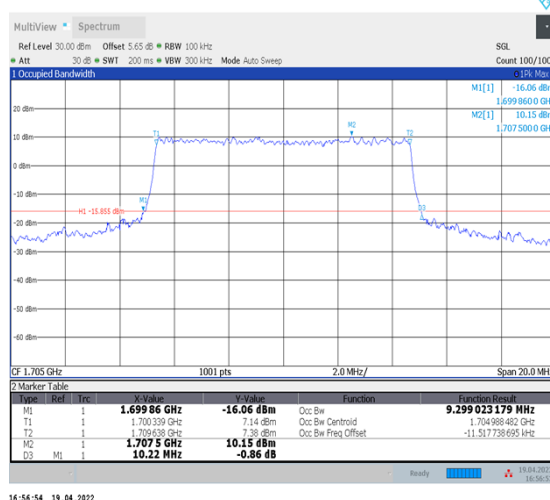
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1-N70--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.319-10.260-≤10-PASS



1-N70--15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1-9.299-10.220-≤10-PASS



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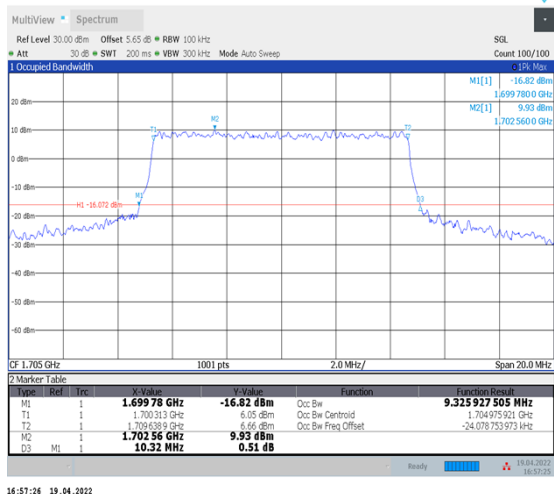
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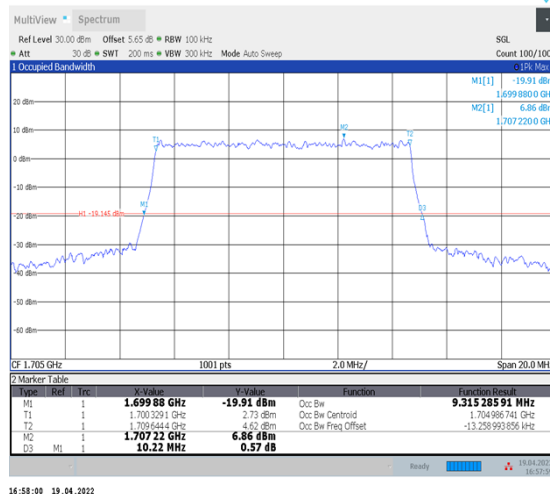
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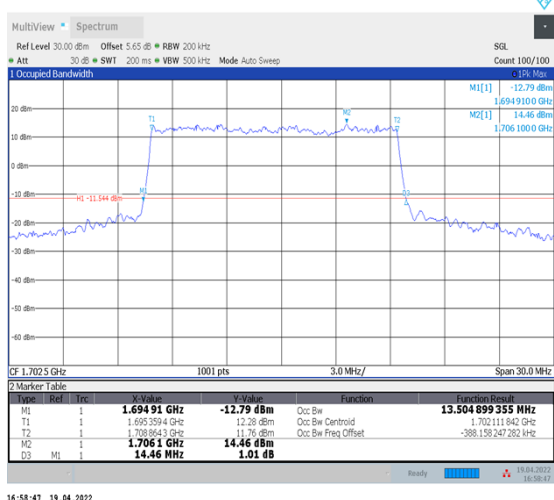
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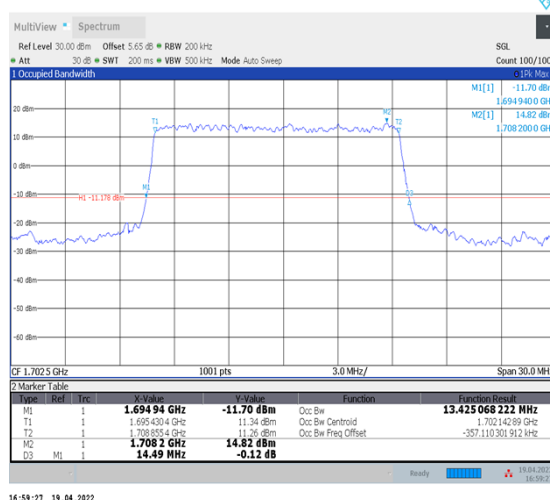
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1-N70--15-10-H-9-CP-256QAM-Outer_Full-52@0-
Ant1-9.315-10.220-≤10-PASS



1-N70--15-15-L-1-DFT-QPSK-Outer_Full-75@0-
Ant1-13.505-14.460-≤15-PASS



1-N70--15-15-L-2-DFT-PI2BPSK-Outer_Full-75@0-
Ant1-13.425-14.490-≤15-PASS



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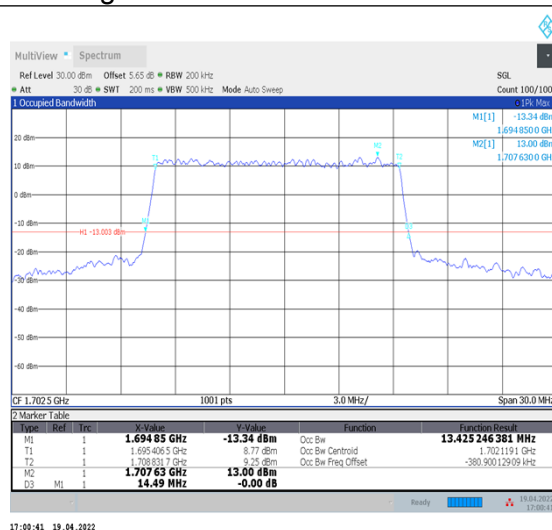
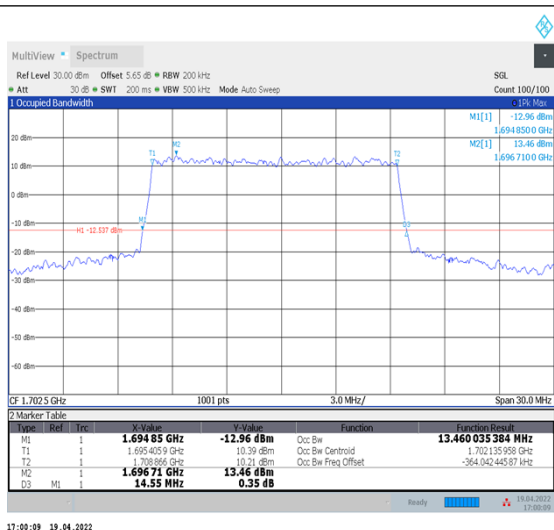
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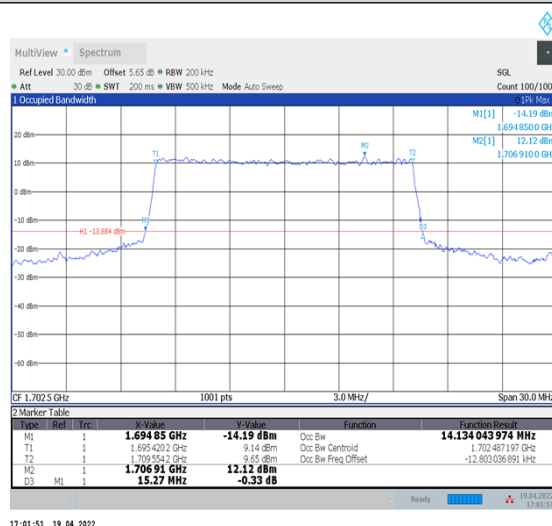
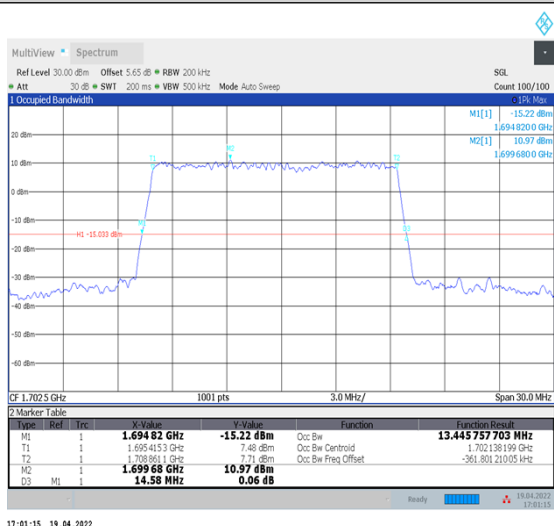
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1-N70--15-15-L-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.46-14.550-≤15-PASS

1-N70--15-15-L-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.425-14.490-≤15-PASS



1-N70--15-15-L-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.446-14.580-≤15-PASS

1-N70--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-14.134-15.270-≤15-PASS



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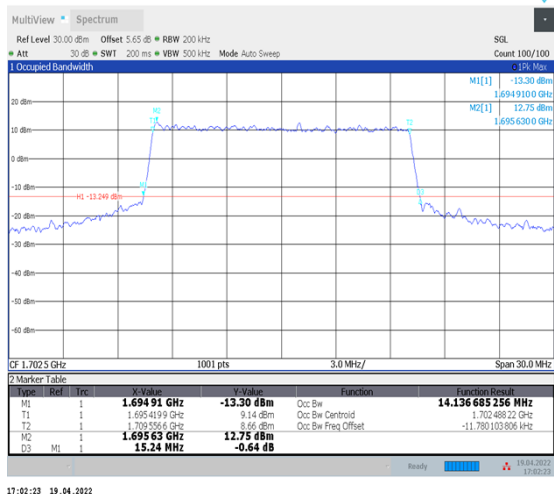
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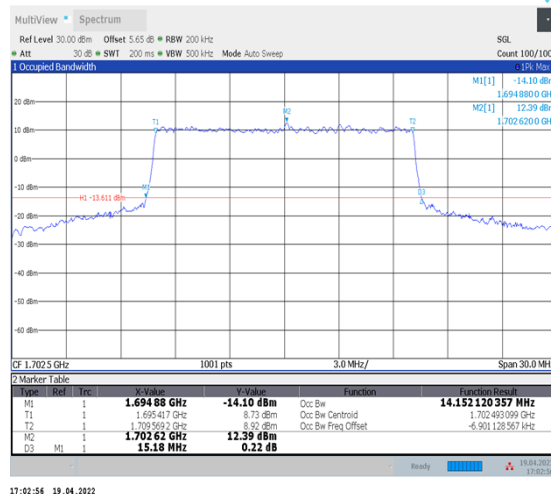
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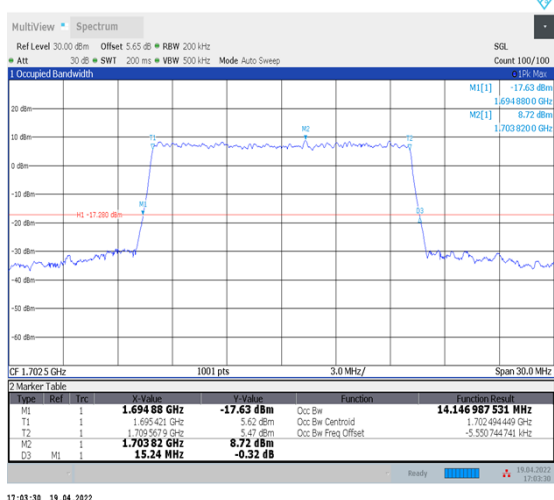
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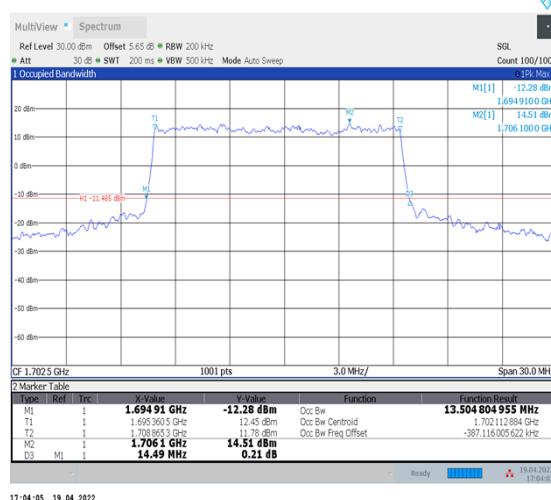
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1-N70--15-15-L-8-CP-64QAM-Outer_Full-79@0-
Ant1-14.152-15.180-≤15-PASS



1-N70--15-15-L-9-CP-256QAM-Outer_Full-79@0-
Ant1-14.147-15.240-≤15-PASS



1-N70--15-15-M-1-DFT-QPSK-Outer_Full-75@0-
Ant1-13.505-14.490-≤15-PASS



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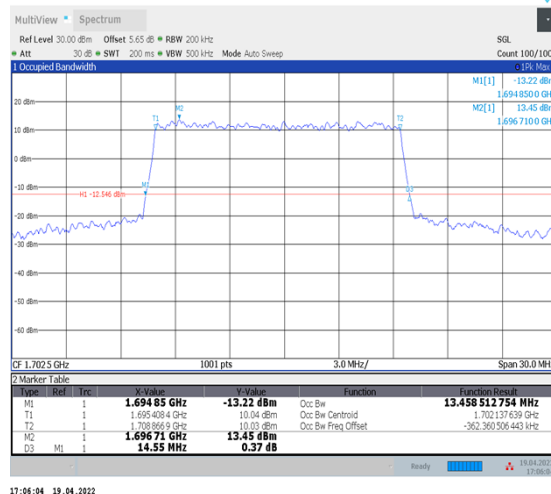
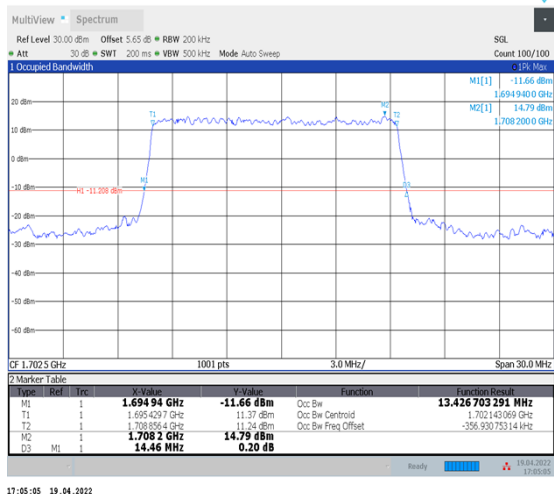
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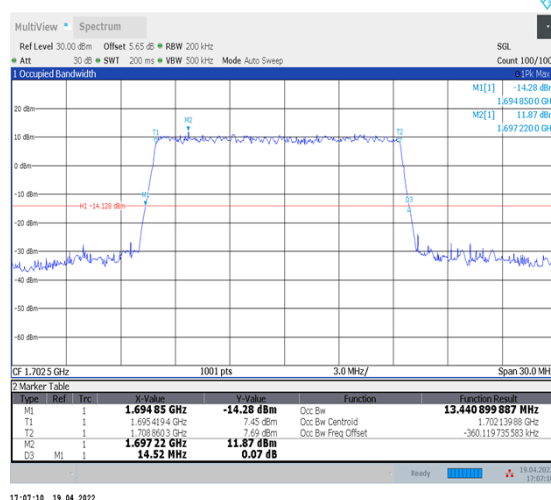
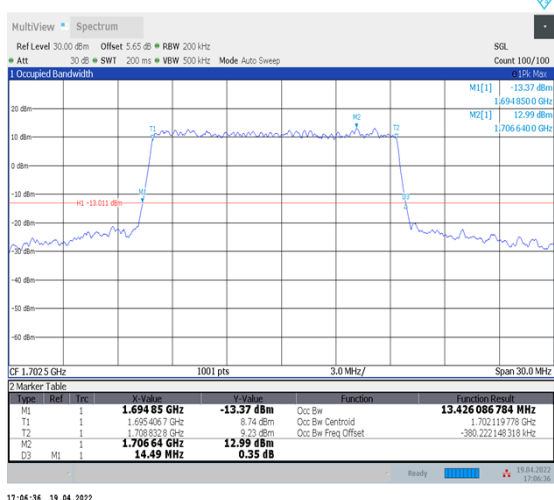
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1-N70--15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.427-14.460-≤15-PASS

1-N70--15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.459-14.550-≤15-PASS



1-N70--15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.426-14.490-≤15-PASS

1-N70--15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.441-14.520-≤15-PASS



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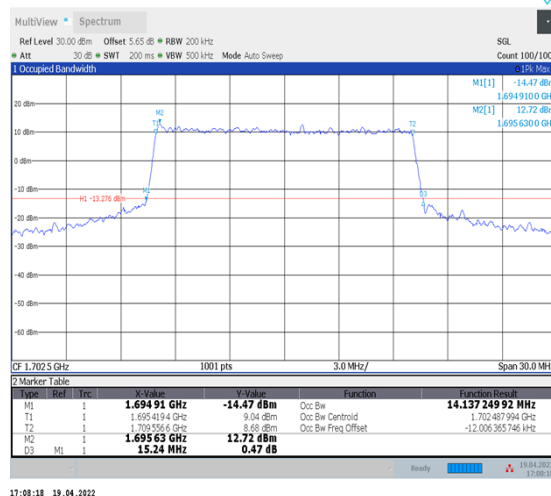
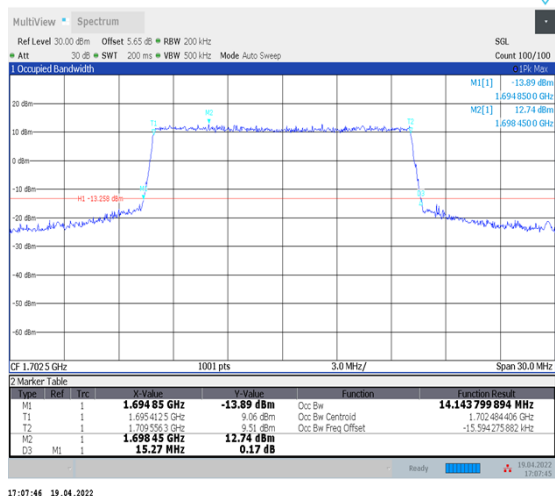
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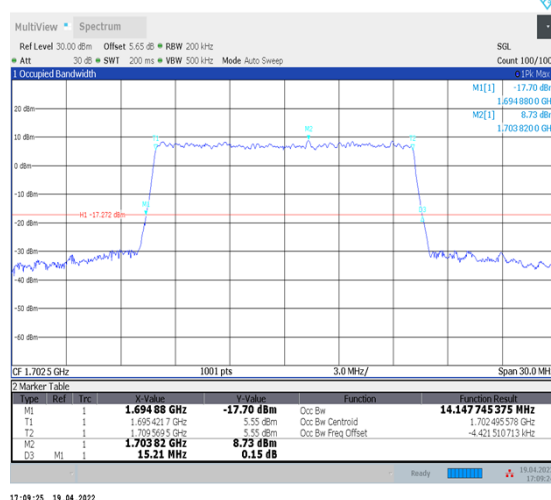
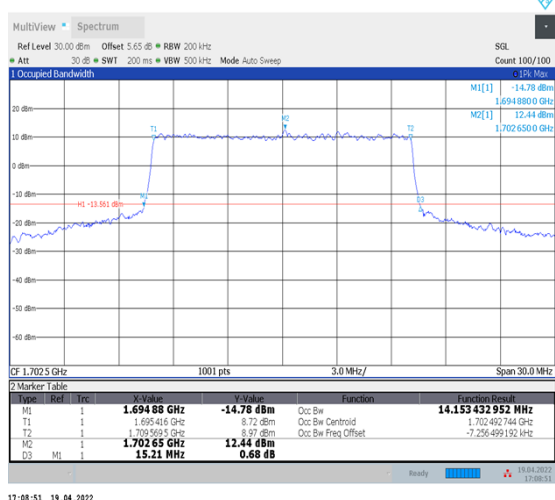
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1-N70--15-15-M-6-CP-QPSK-Outet_Full-79@0-Ant1-14.144-15.270-≤15-PASS

1-N70--15-15-M-7-CP-16QAM-Outet_Full-79@0-Ant1-14.137-15.240-≤15-PASS



1-N70--15-15-M-8-CP-64QAM-Outet_Full-79@0-Ant1-14.153-15.210-≤15-PASS

1-N70--15-15-M-9-CP-256QAM-Outet_Full-79@0-Ant1-14.148-15.210-≤15-PASS



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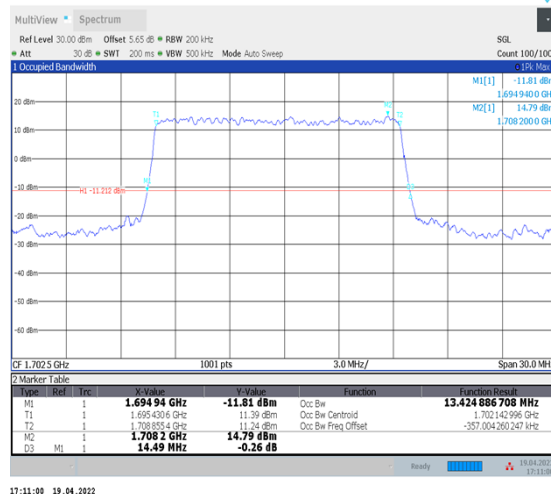
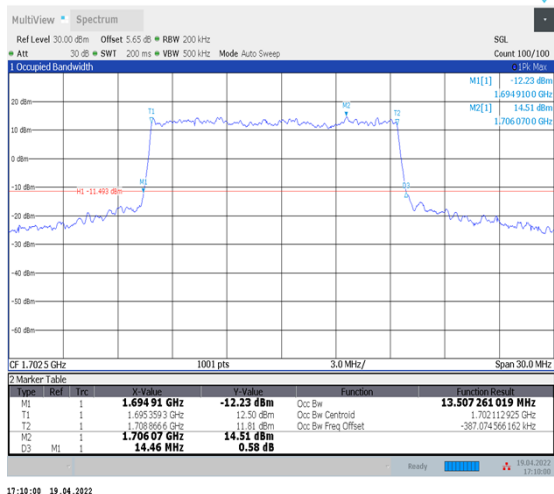
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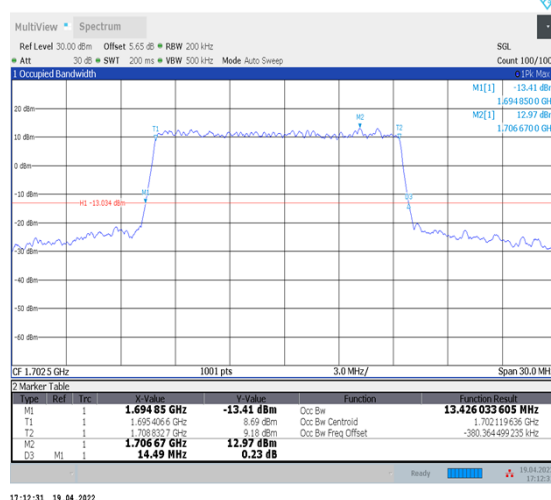
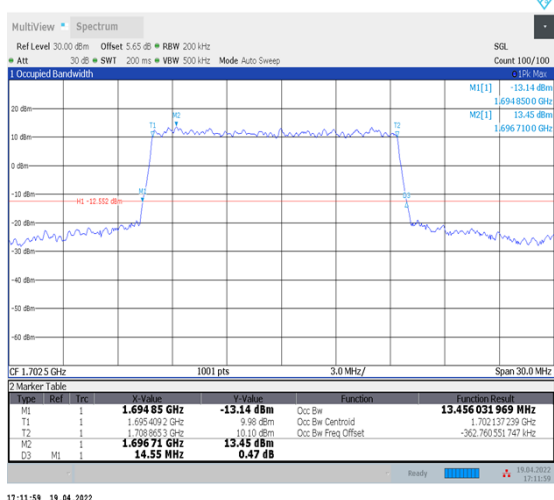
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1-N70--15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.507-14.460-≤15-PASS

1-N70--15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.425-14.490-≤15-PASS



1-N70--15-15-H-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.456-14.550-≤15-PASS

1-N70--15-15-H-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.426-14.490-≤15-PASS



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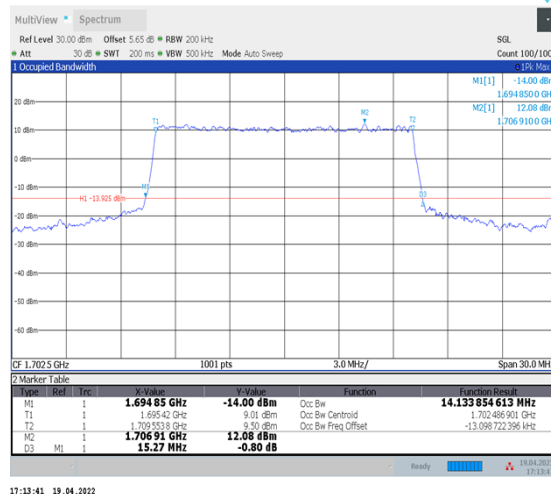
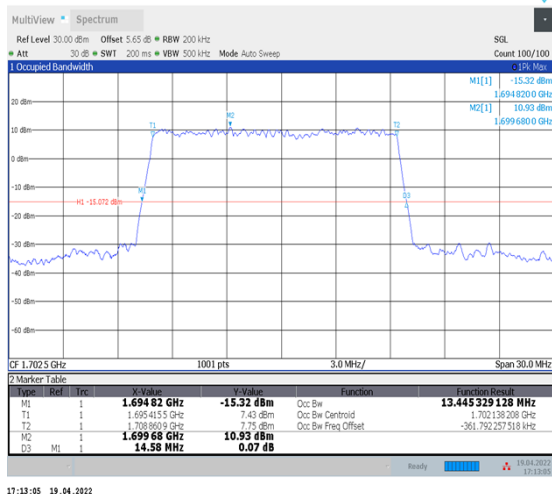
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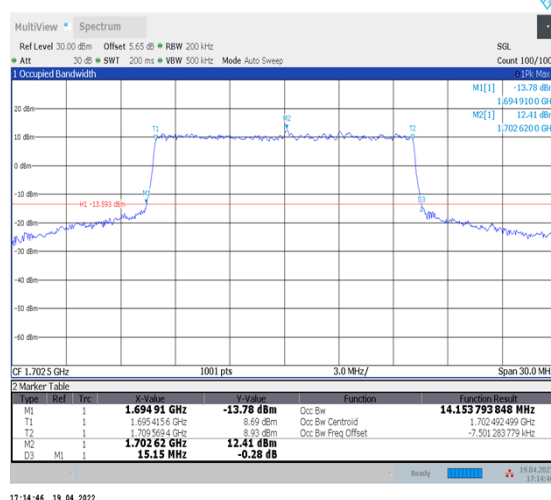
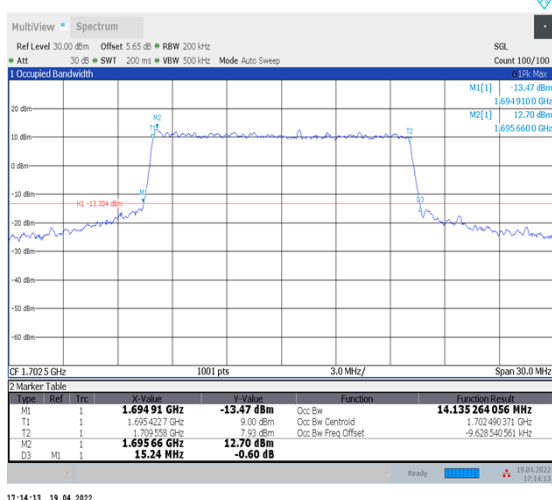
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1-N70--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-14.134-15.270-≤15-PASS



1-N70--15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant1-14.135-15.240-≤15-PASS

1-N70--15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant1-14.154-15.150-≤15-PASS



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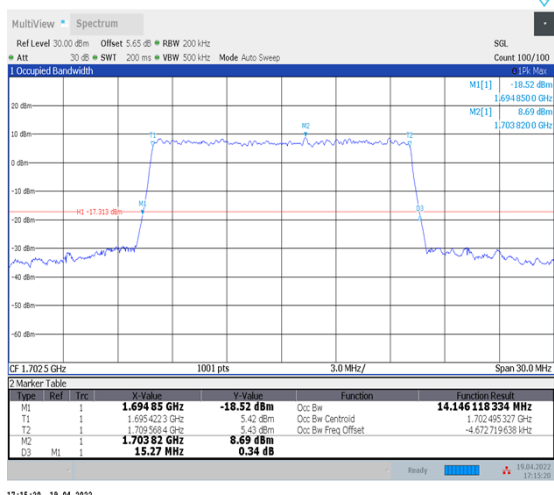
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1-N70--15-15-H-9-CP-256QAM-Outer_Full-79@0-
Ant1-14.146-15.270-≤15-PASS



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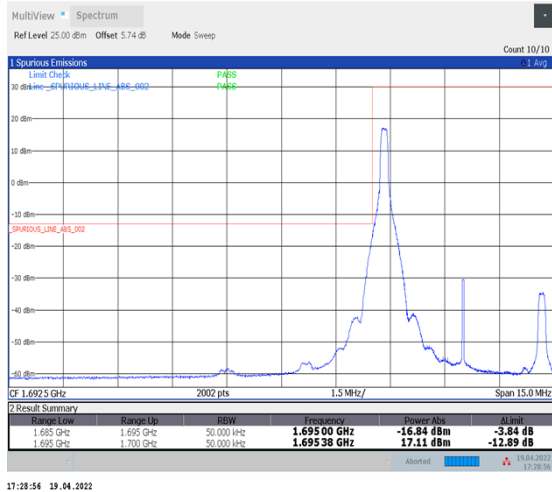
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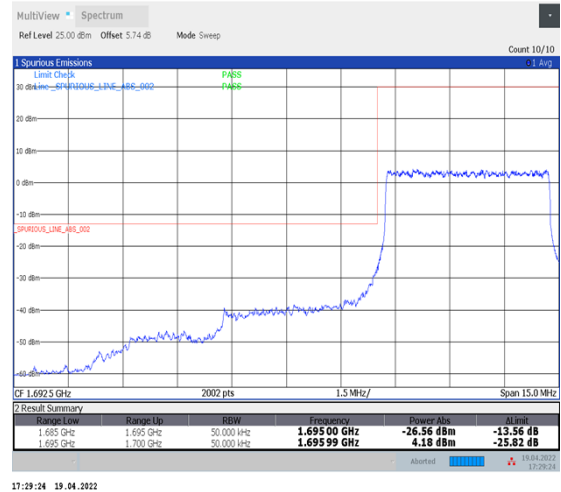
Band Edge for SA

Test Graphs



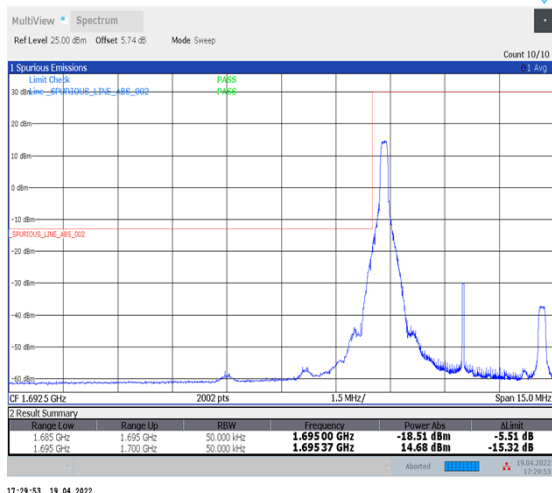
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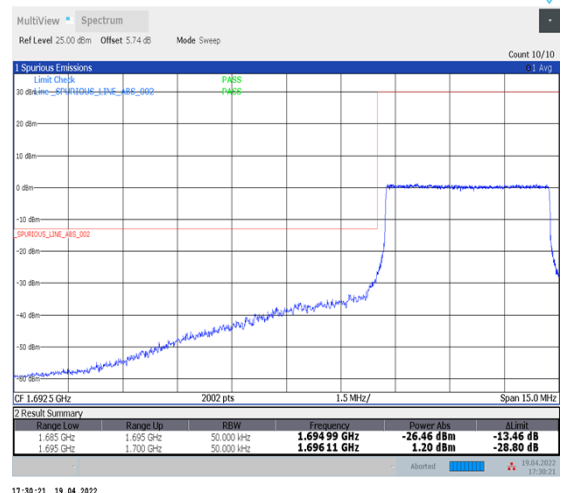
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17:30:21 19.04.2022

1-N70--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-seegraph-PASS-see graph



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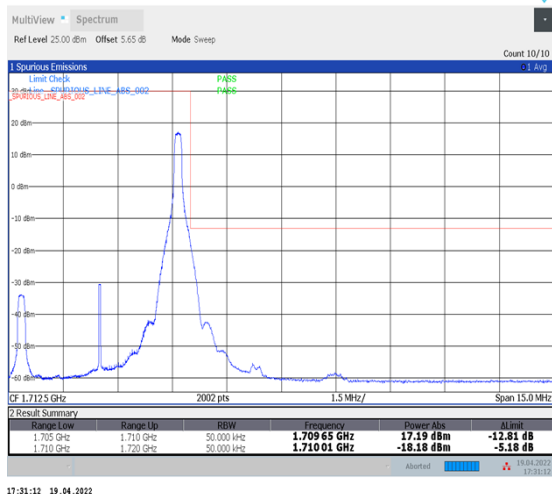
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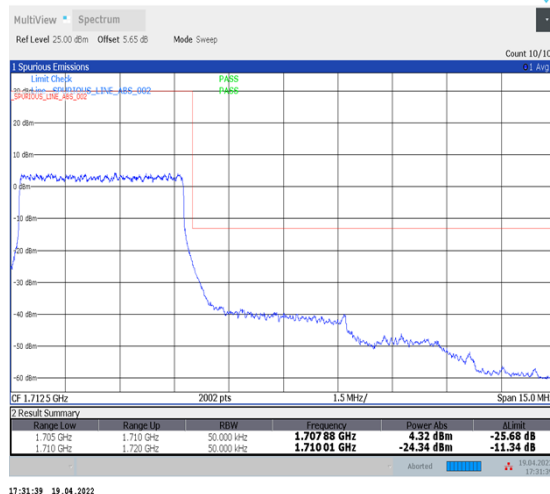
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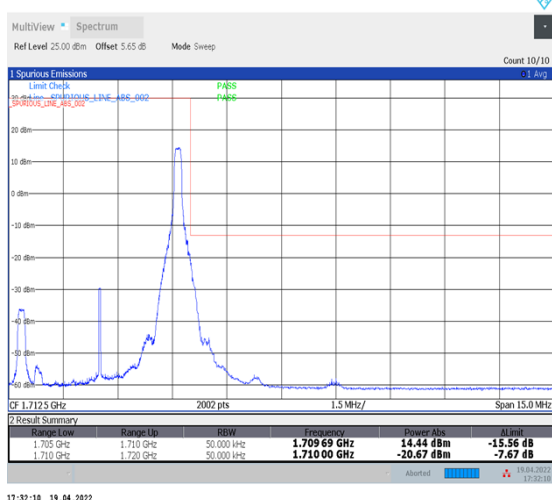
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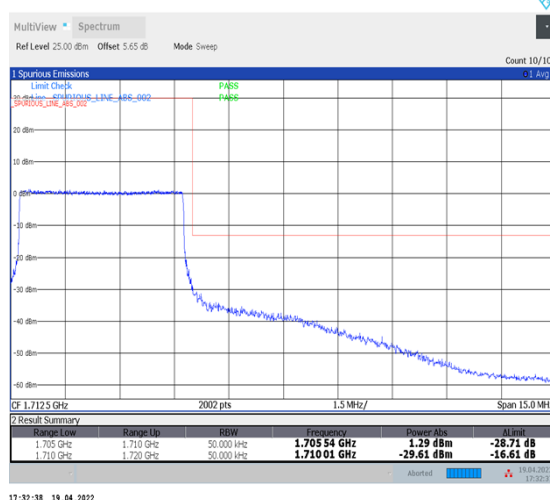
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17:32:28 19.04.2022

1-N70--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-seegraph-PASS-see graph



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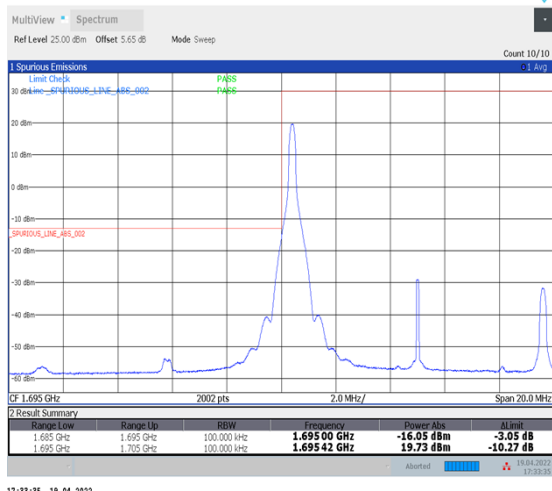
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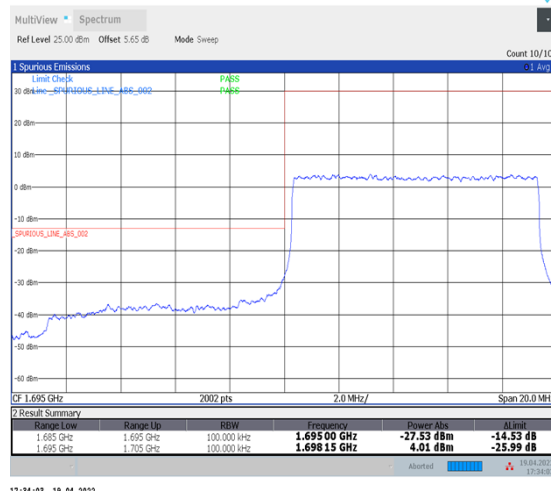
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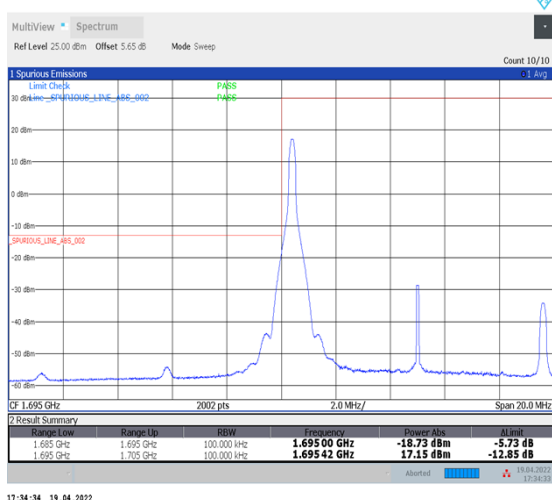
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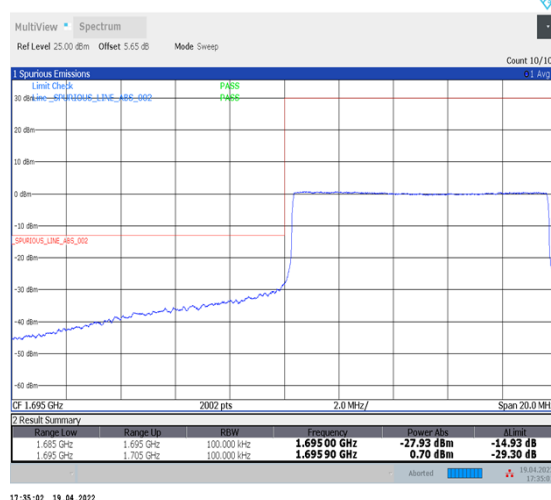
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1-N70--15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-seegraph-PASS-see graph



1-N70--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph



1-N70--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-seegraph-PASS-see graph



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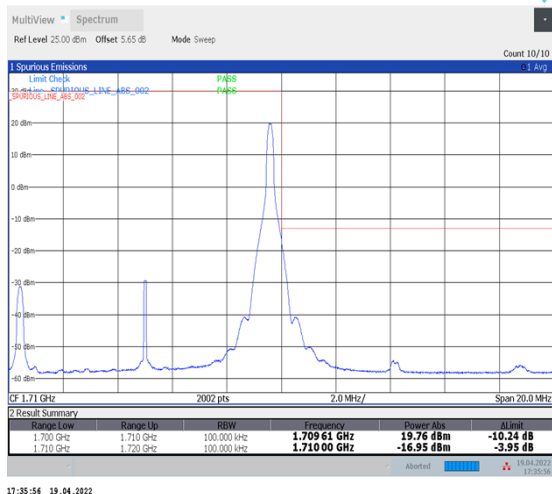
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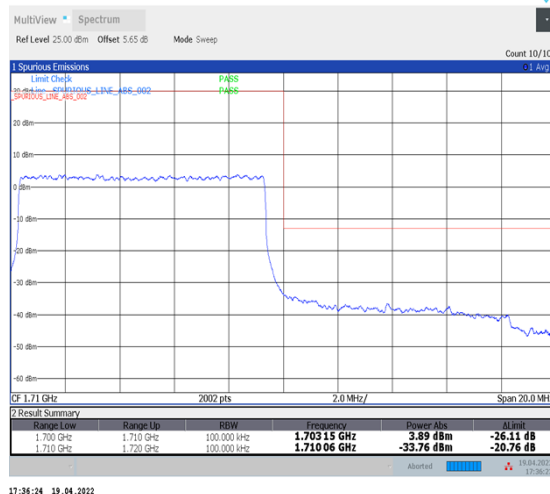
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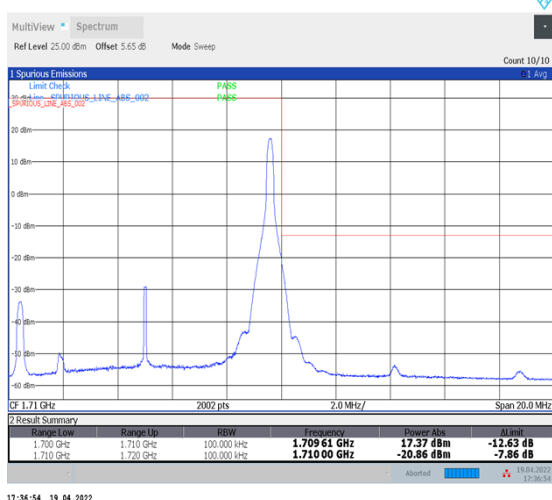
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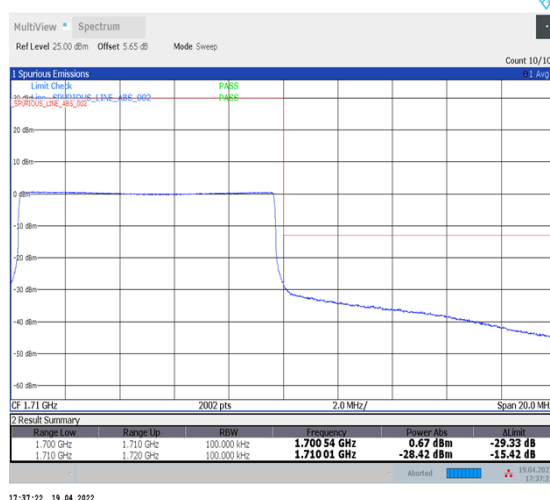
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1-N70--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-seegraph-PASS-see graph



17:37:22 19.04.2022

1-N70--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-seegraph-PASS-see graph



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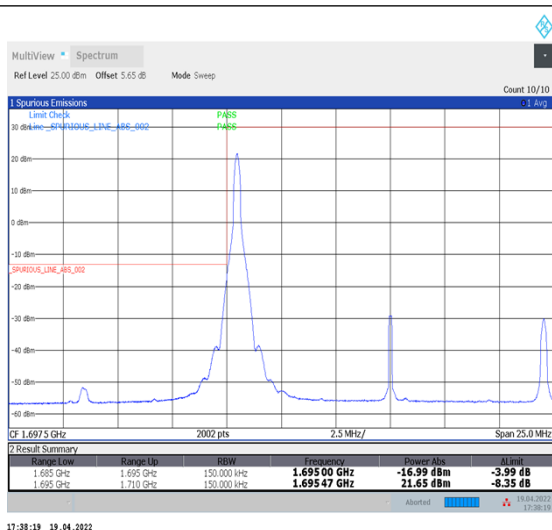
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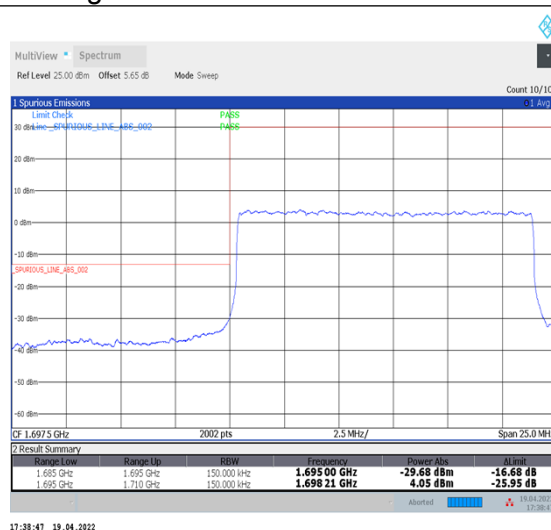
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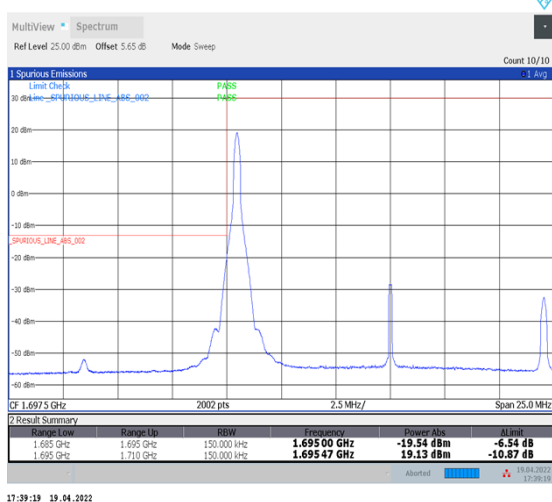
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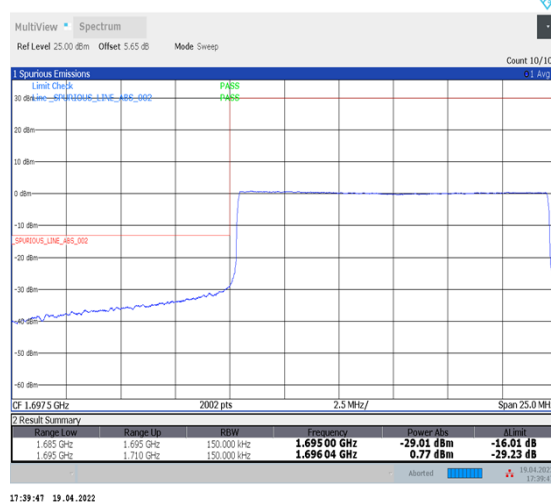
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1-N70--15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-seegraph-PASS-see graph



1-N70--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-seegraph-PASS-see graph



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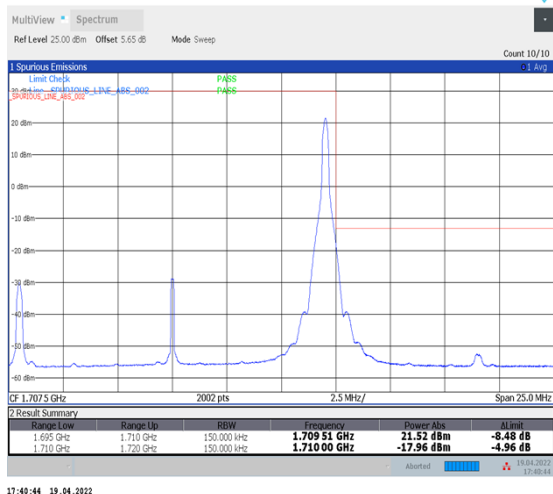
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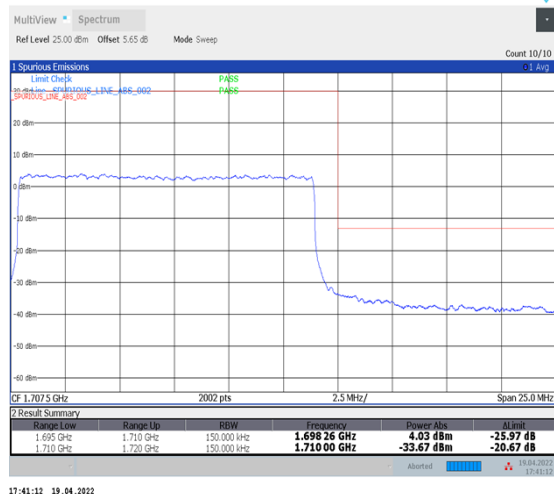
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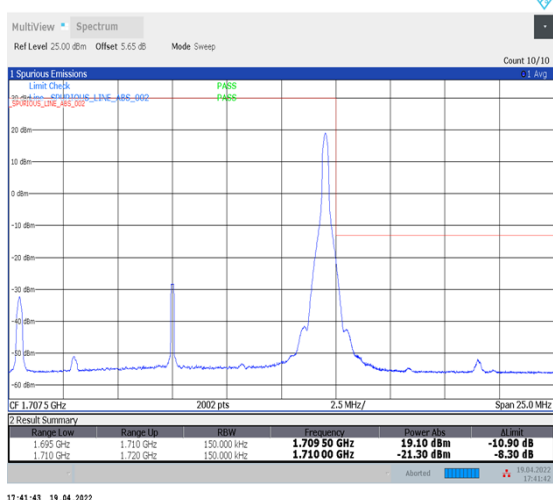
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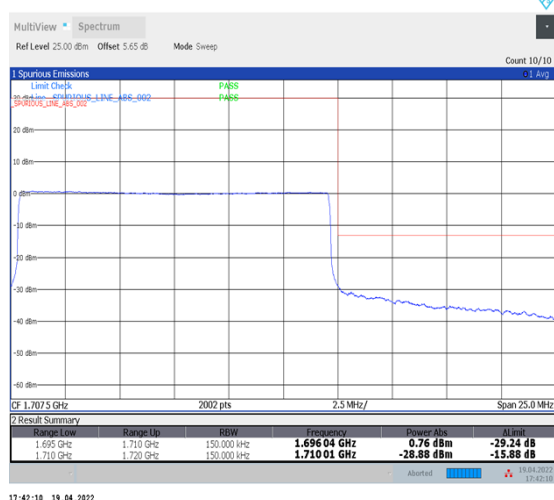
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1-N70--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-seegraph-PASS-see graph



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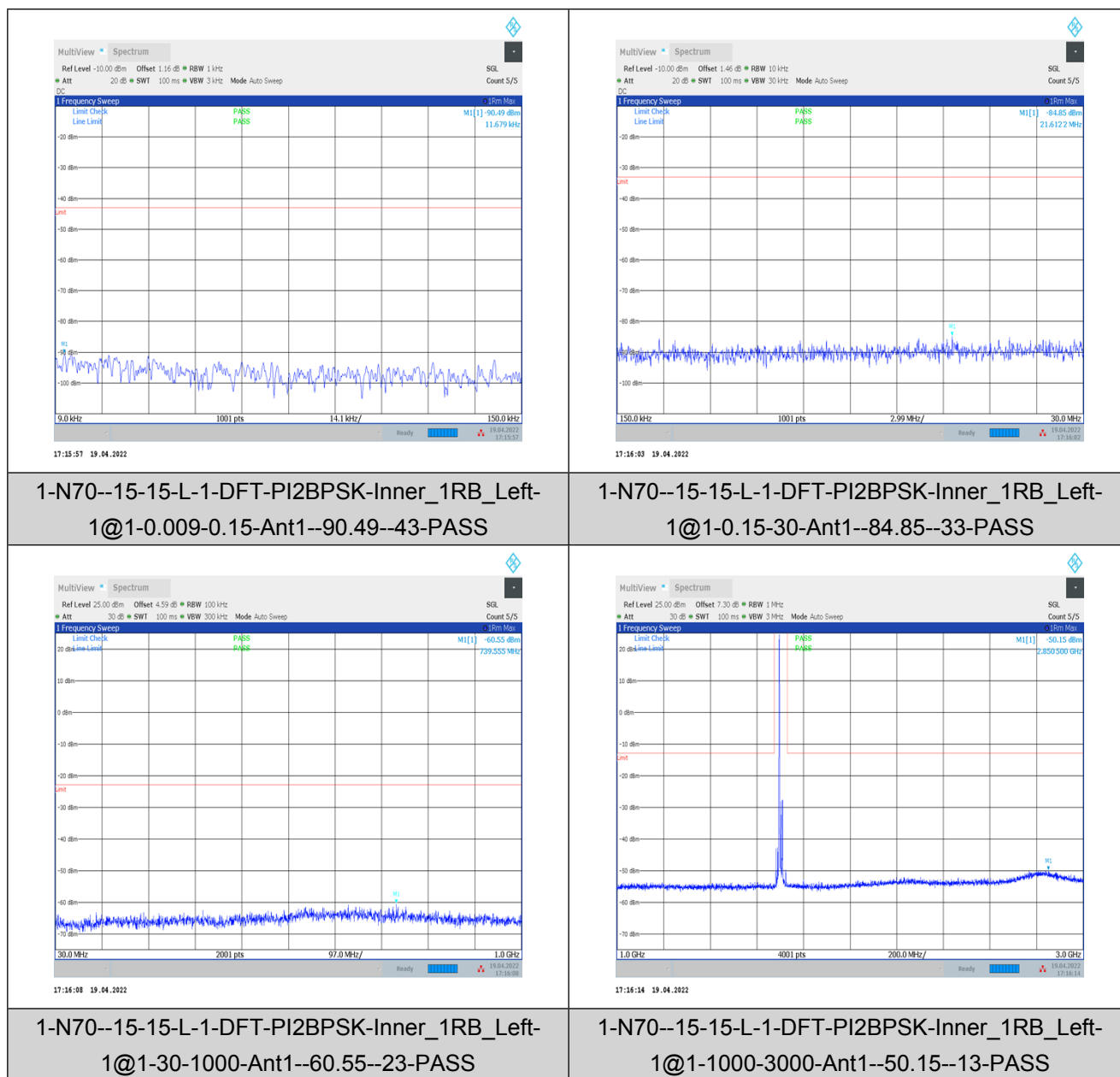
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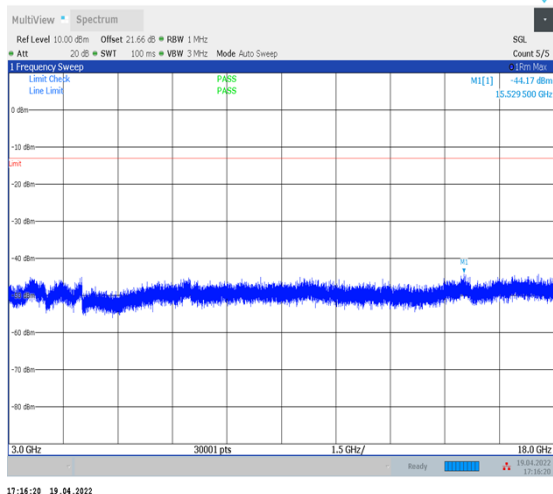
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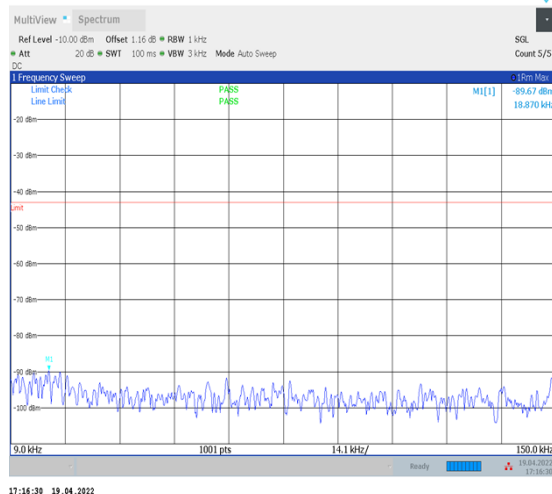
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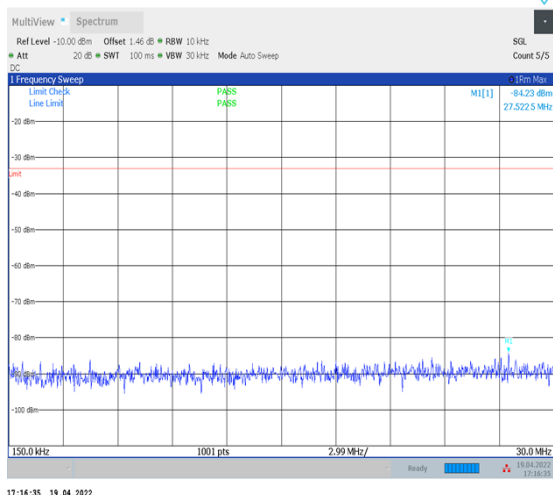
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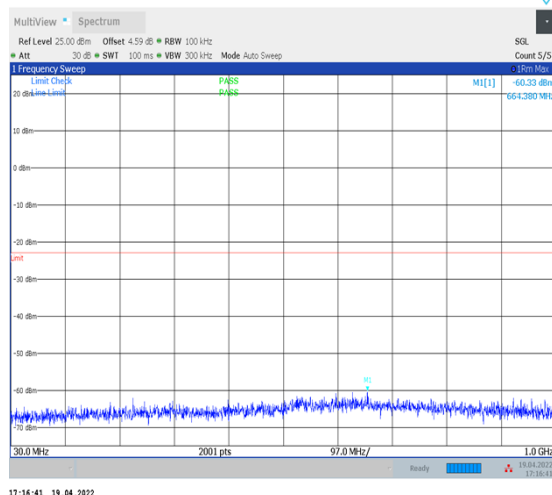
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1-N70--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--60.33--23-PASS



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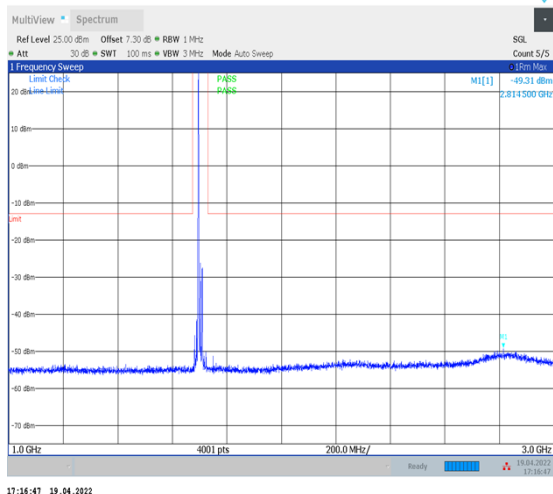
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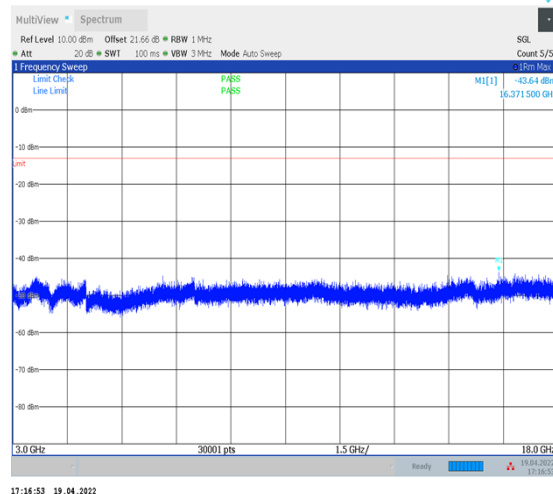
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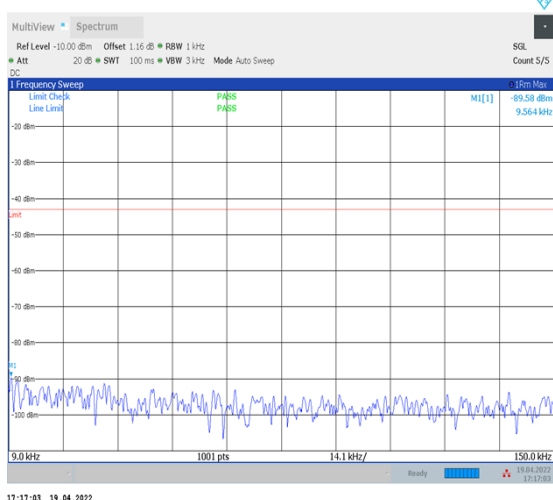
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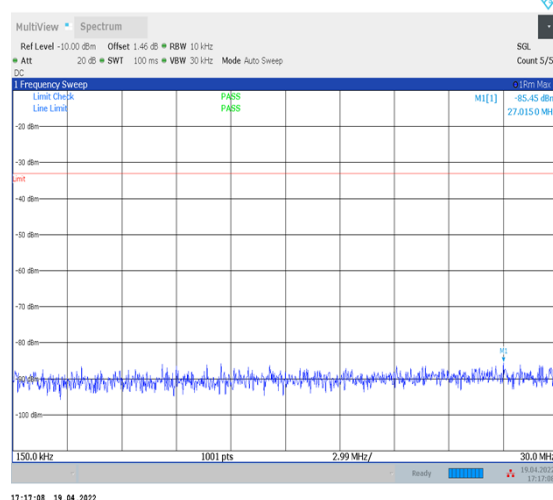
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1-N70--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-18000-Ant1--43.64--13-PASS



1-N70--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--89.58--43-PASS



1-N70--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--85.45--33-PASS



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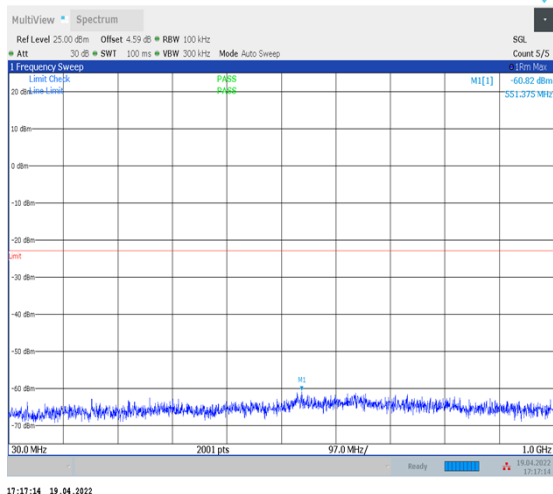
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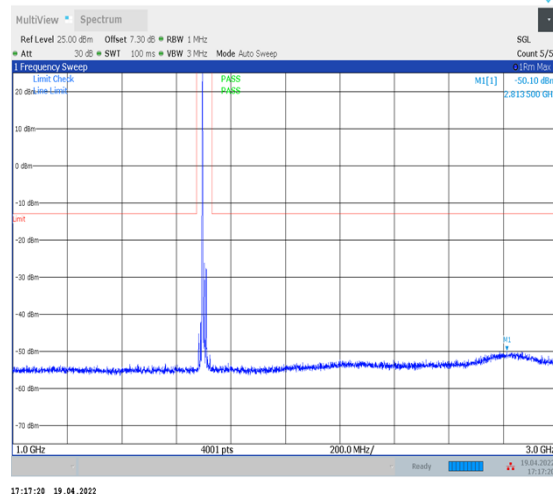
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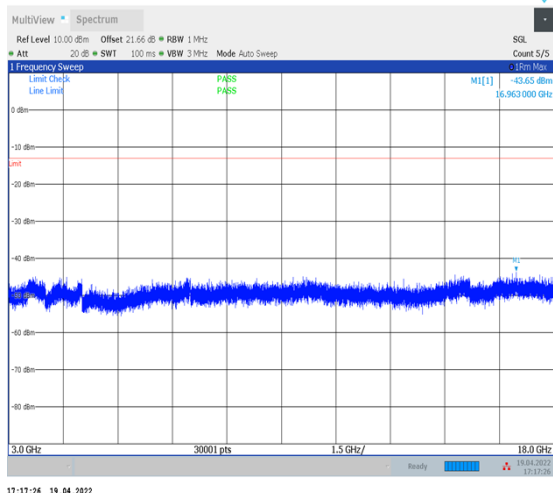
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1-N70--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--60.82--23-PASS



1-N70--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--50.10--13-PASS



1-N70--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-18000-Ant1--43.65--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 70 BW 15M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.68	50.55	-111.74	-61.19	-13.00	48.19	142	360	Horizontal
2	5087.52	50.08	-107.03	-56.95	-13.00	43.95	263	87	Horizontal
3	6783.36	51.10	-102.06	-50.96	-13.00	37.96	144	288	Horizontal
4	8479.2	47.91	-96.78	-48.87	-13.00	35.87	196	226	Horizontal
5	10175.04	44.28	-93.18	-48.90	-13.00	35.90	244	99	Horizontal
6	11796.75	52.89	-91.76	-38.87	-13.00	25.87	143	312	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.68	50.95	-111.74	-60.79	-13.00	47.79	263	165	Vertical
2	5087.52	48.49	-107.03	-58.54	-13.00	45.54	251	355	Vertical
3	6783.36	49.43	-102.06	-52.63	-13.00	39.63	196	175	Vertical
4	8479.2	45.25	-96.78	-51.53	-13.00	38.53	142	52	Vertical
5	10175.04	43.00	-93.18	-50.18	-13.00	37.18	296	127	Vertical
6	11796.75	54.41	-91.76	-37.35	-13.00	24.35	142	226	Vertical



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Test Band = SA Band 70 BW 10M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.18	50.80	-111.74	-60.94	-13.00	47.94	263	286	Horizontal
2	5086.77	48.33	-107.03	-58.70	-13.00	45.70	251	249	Horizontal
3	6782.36	49.18	-102.06	-52.88	-13.00	39.88	174	360	Horizontal
4	8477.95	45.23	-96.79	-51.56	-13.00	38.56	186	359	Horizontal
5	10173.54	43.74	-93.19	-49.45	-13.00	36.45	254	161	Horizontal
6	11796.75	52.44	-91.76	-39.32	-13.00	26.32	188	211	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.18	50.76	-111.74	-60.98	-13.00	47.98	263	3	Vertical
2	5086.77	50.59	-107.03	-56.44	-13.00	43.44	254	179	Vertical
3	6782.36	49.61	-102.06	-52.45	-13.00	39.45	174	114	Vertical
4	8477.95	46.22	-96.79	-50.57	-13.00	37.57	152	204	Vertical
5	10173.54	43.50	-93.19	-49.69	-13.00	36.69	263	338	Vertical
6	11796.75	54.04	-91.76	-37.72	-13.00	24.72	241	227	Vertical



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Test Band = SA Band 70 BW 10M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3396.18	52.08	-111.75	-59.67	-13.00	46.67	263	139	Horizontal
2	5094.27	49.86	-106.98	-57.12	-13.00	44.12	251	3	Horizontal
3	6792.36	49.60	-102.04	-52.44	-13.00	39.44	142	126	Horizontal
4	8490.45	45.09	-96.75	-51.66	-13.00	38.66	284	359	Horizontal
5	10188.54	43.04	-93.13	-50.09	-13.00	37.09	265	302	Horizontal
6	11796.75	52.53	-91.76	-39.23	-13.00	26.23	241	14	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3396.18	50.50	-111.75	-61.25	-13.00	48.25	263	360	Vertical
2	5094.27	50.62	-106.98	-56.36	-13.00	43.36	251	360	Vertical
3	6792.36	48.61	-102.04	-53.43	-13.00	40.43	148	201	Vertical
4	8490.45	45.09	-96.75	-51.66	-13.00	38.66	265	189	Vertical
5	10188.54	43.57	-93.13	-49.56	-13.00	36.56	241	360	Vertical
6	11796.75	54.50	-91.76	-37.26	-13.00	24.26	177	28	Vertical



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Test Band = SA Band 70 BW 10M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3401.18	50.22	-111.75	-61.53	-13.00	48.53	263	355	Horizontal
2	5101.77	49.30	-106.95	-57.65	-13.00	44.65	241	274	Horizontal
3	6802.36	50.02	-102.01	-51.99	-13.00	38.99	178	287	Horizontal
4	8502.95	45.83	-96.73	-50.90	-13.00	37.90	265	185	Horizontal
5	10203.54	43.92	-93.10	-49.18	-13.00	36.18	284	25	Horizontal
6	11796.75	51.03	-91.76	-40.73	-13.00	27.73	177	25	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3401.18	50.63	-111.75	-61.12	-13.00	48.12	163	226	Vertical
2	5101.77	51.18	-106.95	-55.77	-13.00	42.77	254	3	Vertical
3	6802.36	49.31	-102.01	-52.70	-13.00	39.70	175	14	Vertical
4	8502.95	45.24	-96.73	-51.49	-13.00	38.49	263	177	Vertical
5	10203.54	44.83	-93.10	-48.27	-13.00	35.27	322	338	Vertical
6	11796.75	55.14	-91.76	-36.62	-13.00	23.62	142	226	Vertical



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N70	15	15	DFT-PI2BPSK	M	Outer_Full	VH	NT	3.800000	0.002232	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	3.500000	0.002056	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	5.600000	0.003289	PASS
N70	15	15	CP-QPSK	M	Outer_Full	VH	NT	0.800000	0.000470	PASS
N70	15	15	CP-QPSK	M	Outer_Full	VN	NT	-1.600000	-0.000940	PASS
N70	15	15	CP-QPSK	M	Outer_Full	VL	NT	-1.000000	-0.000587	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	7.400000	0.004347	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	4.400000	0.002584	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	5.000000	0.002937	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	1.500000	0.000881	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	4.800000	0.002819	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	3.600000	0.002115	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	7.900000	0.004640	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	1.400000	0.000822	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	1.700000	0.000999	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	-30	-1.300000	-0.000764	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	-20	4.200000	0.002467	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	-10	-2.100000	-0.001233	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	0	-0.800000	-0.000470	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	10	-2.500000	-0.001468	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	20	-2.700000	-0.001586	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	30	-0.900000	-0.000529	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	40	-2.000000	-0.001175	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	50	-4.800000	-0.002819	PASS

The End



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