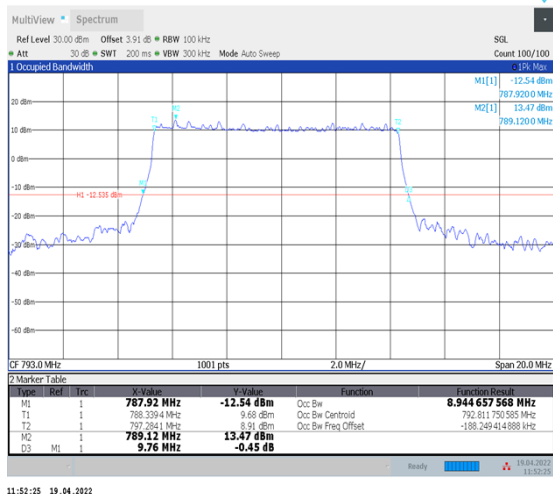


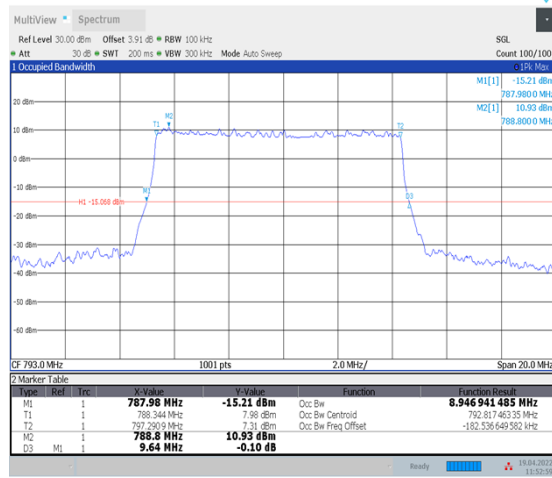
Report No.: SEWA2204000008RG02

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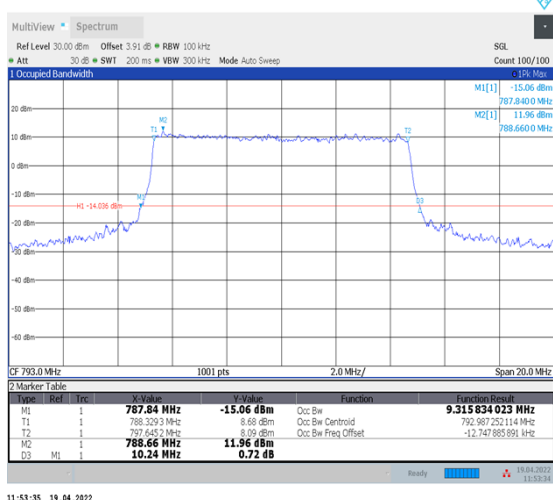
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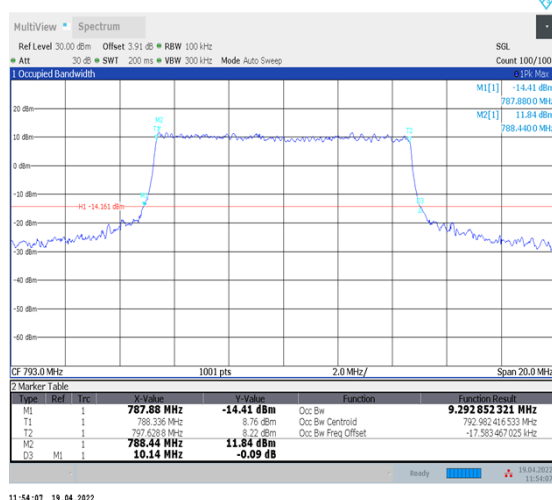
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1-N14--15-10-H-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.947-9.640-≤10-PASS



11:53:35 19.04.2022



11:54:07 19.04.2022

1-N14--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.316-10.240-≤10-PASS

1-N14--15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1-9.293-10.140-≤10-PASS



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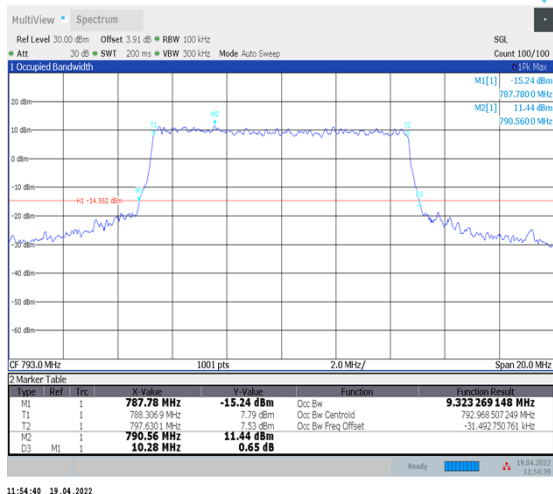
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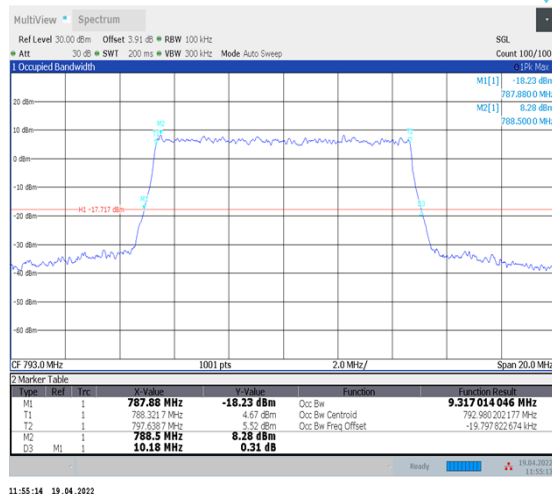
Report No.: SEWA2204000008RG02

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1-N14--15-10-H-8-CP-64QAM-Outer_Full-52@0-
Ant1-9.323-10.280-≤10-PASS



1-N14--15-10-H-9-CP-256QAM-Outer_Full-52@0-
Ant1-9.317-10.180-≤10-PASS



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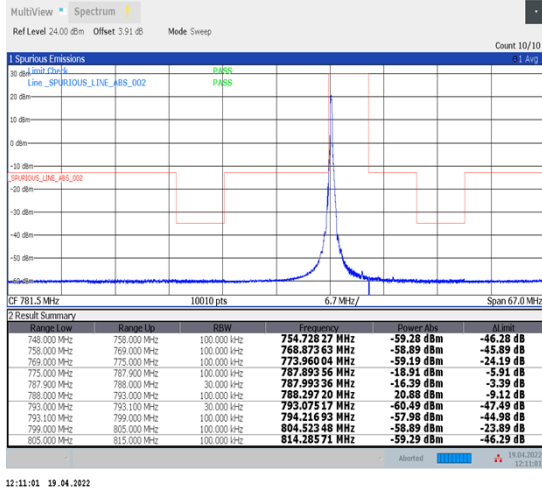
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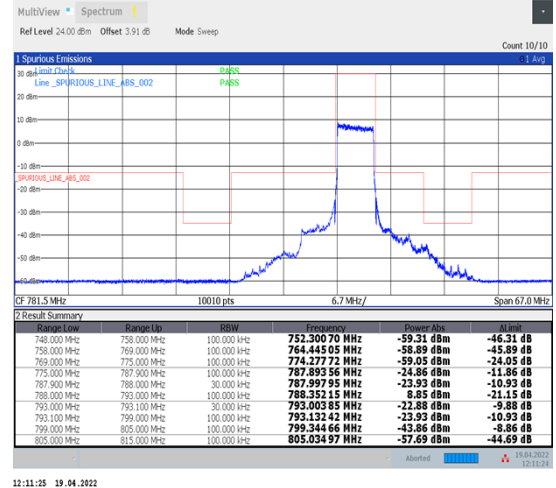
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Test Graphs



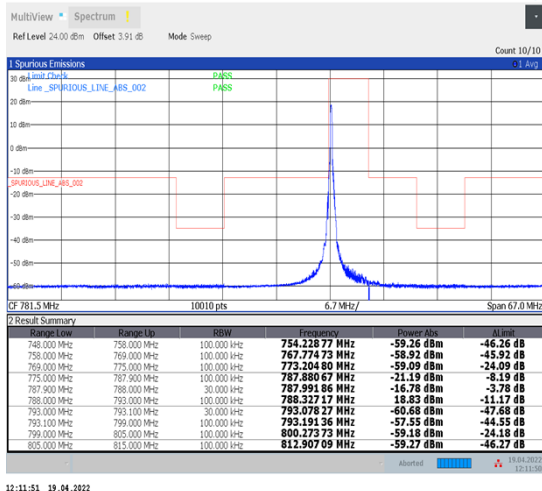
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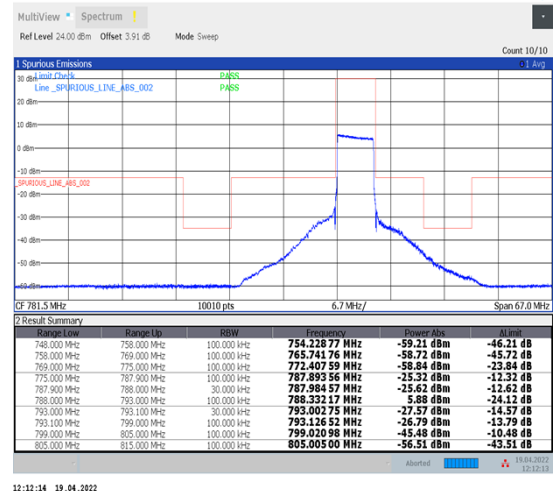
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1-N14--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



12:12:14 19.04.2022

1-N14--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



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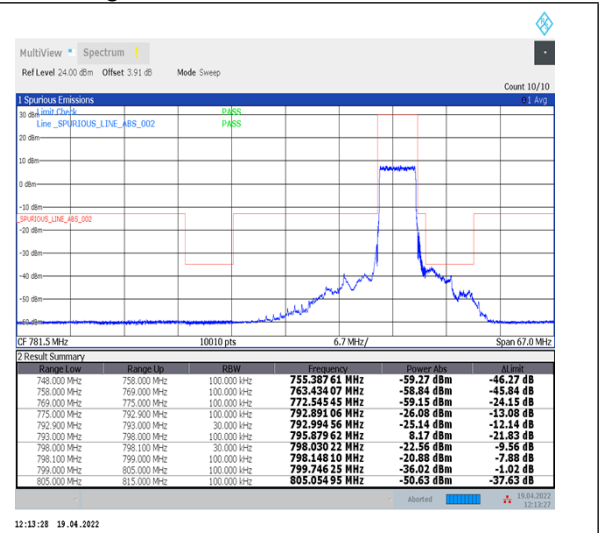
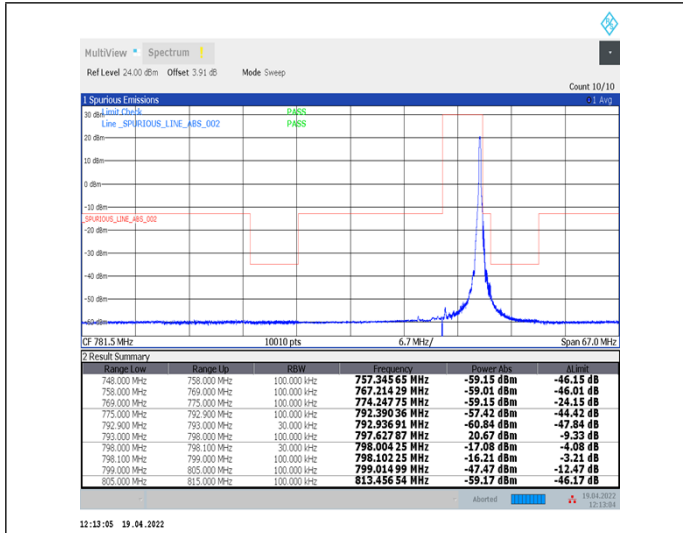
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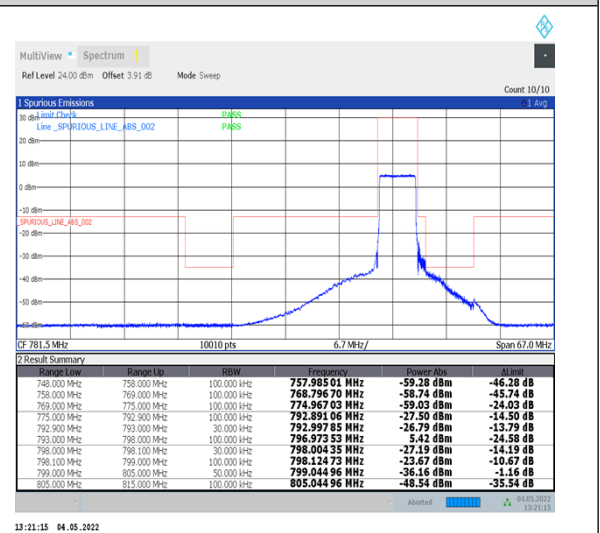
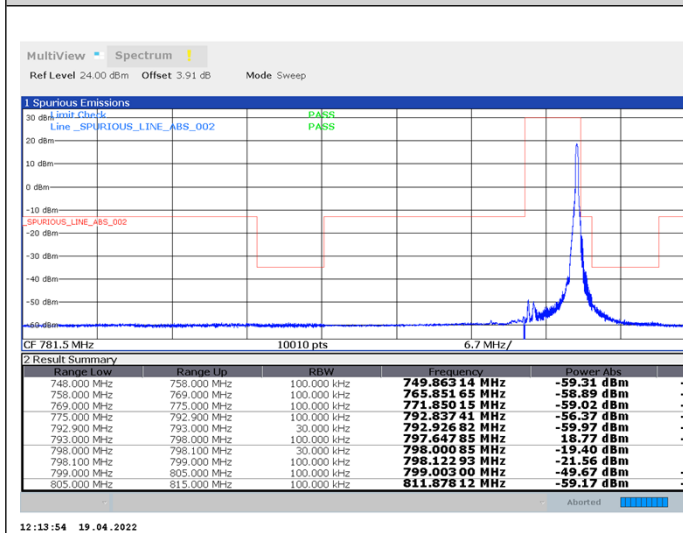
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1-N14--15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-PASS-see graph

1-N14--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-PASS-see graph



1-N14--15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-PASS-see graph

1-N14--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



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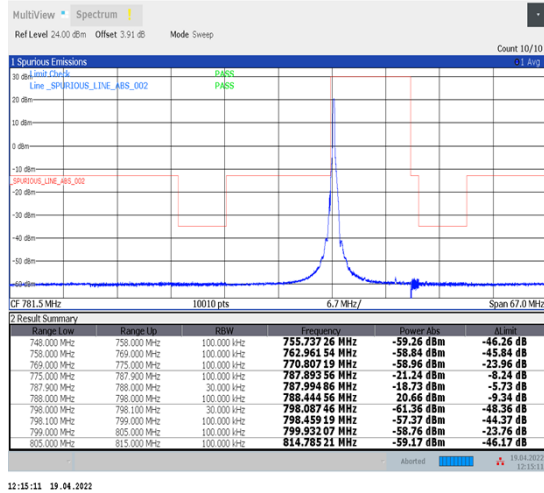
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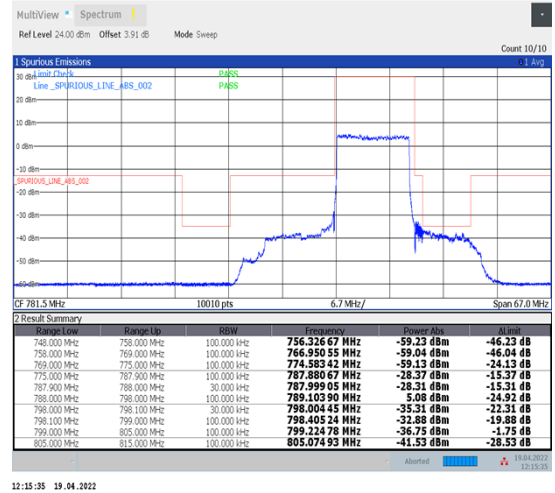
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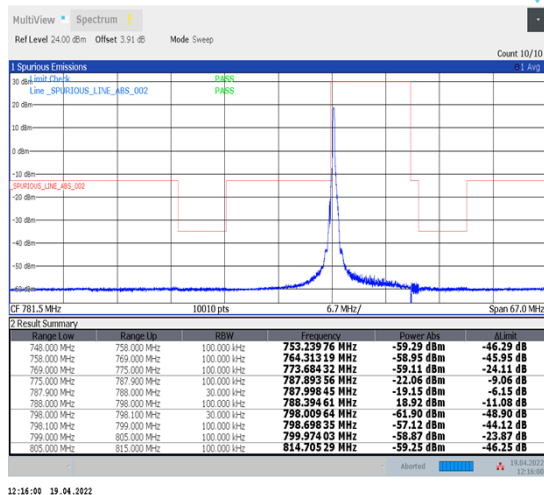
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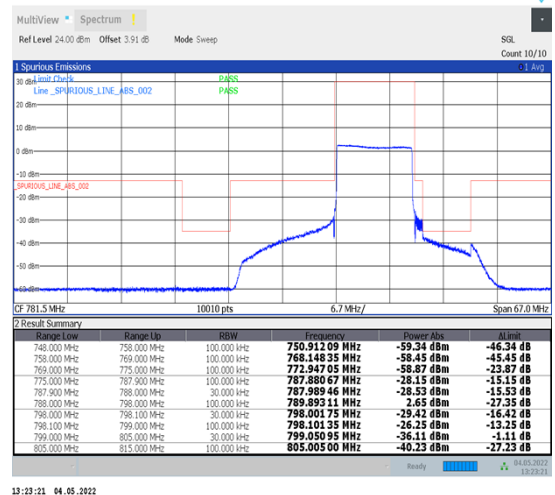
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1-N14--15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-PASS-see graph



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1-N14--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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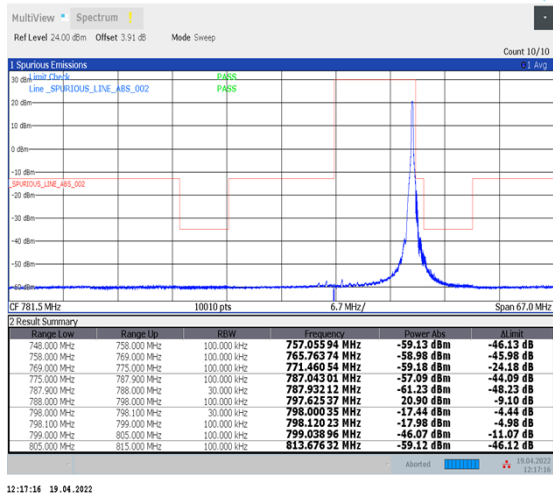
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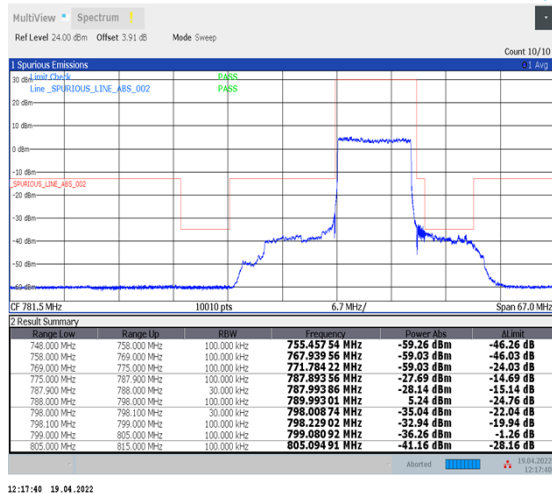
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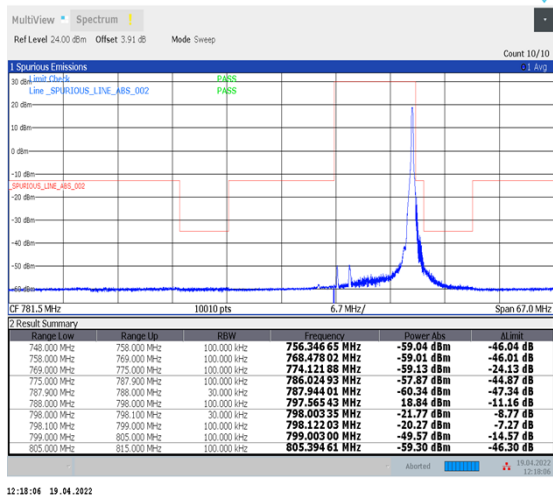
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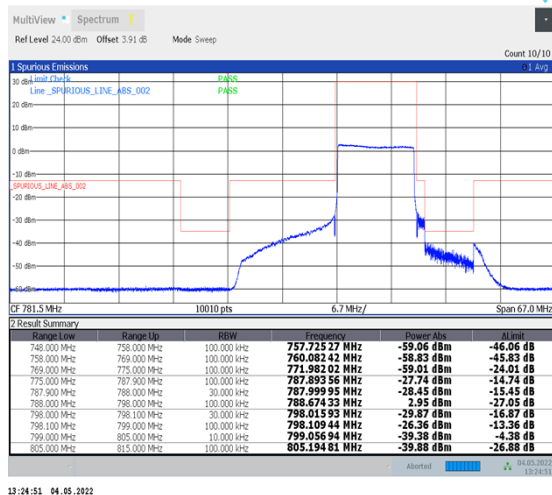
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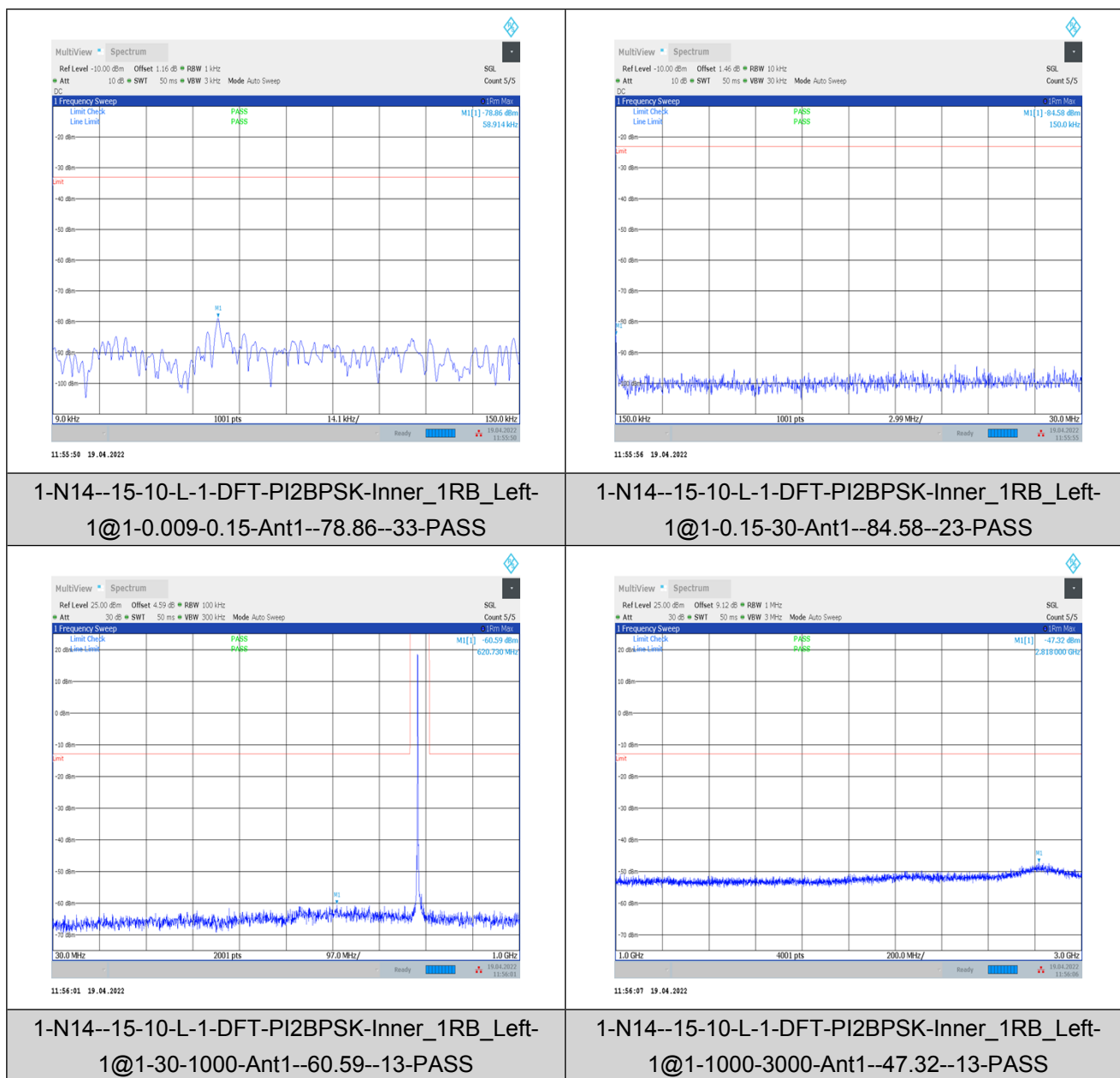
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Conducted Spurious Emission for SA

Test Graphs



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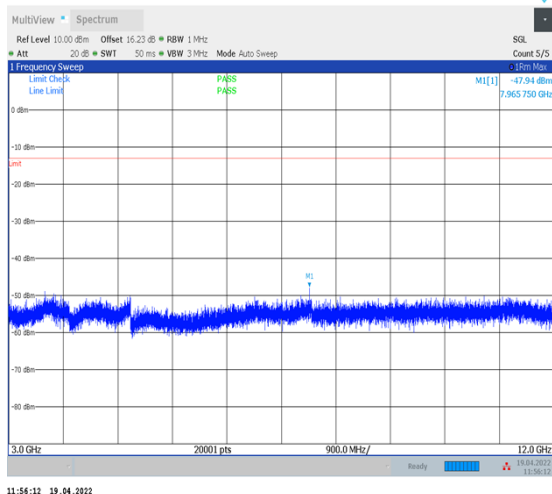
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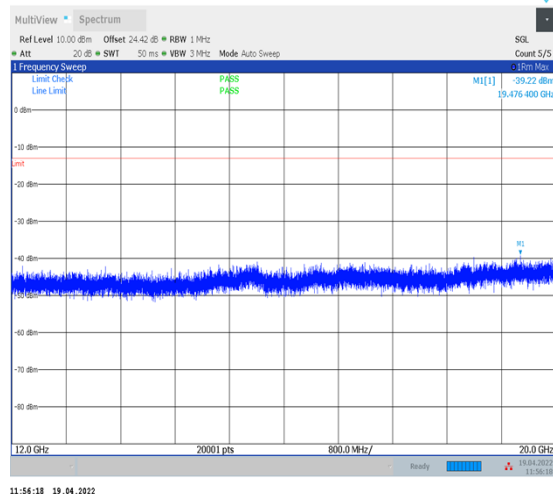
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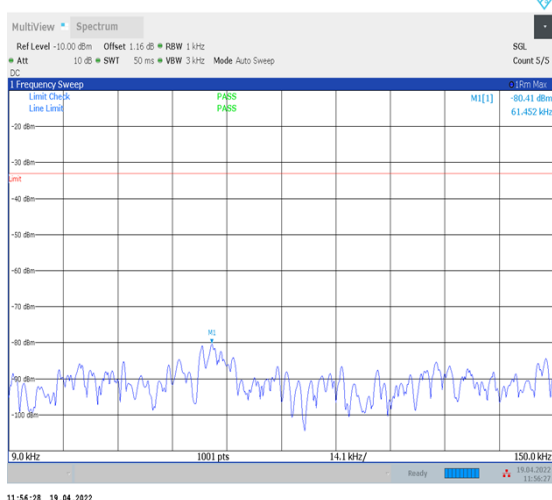
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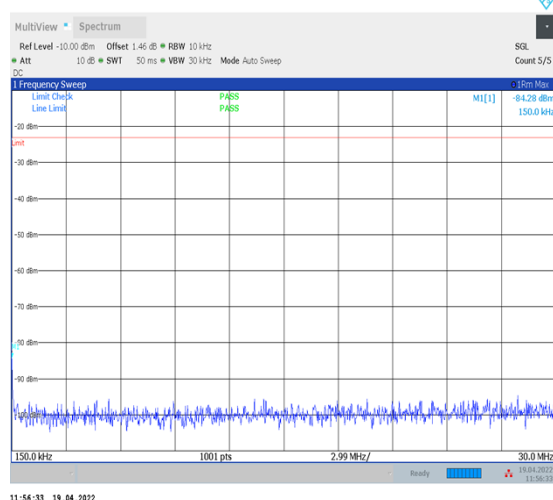
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1-N14--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--80.41--33-PASS



1-N14--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--84.28--23-PASS



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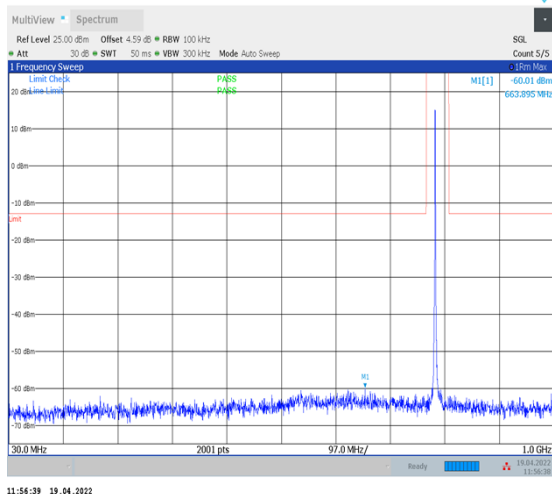
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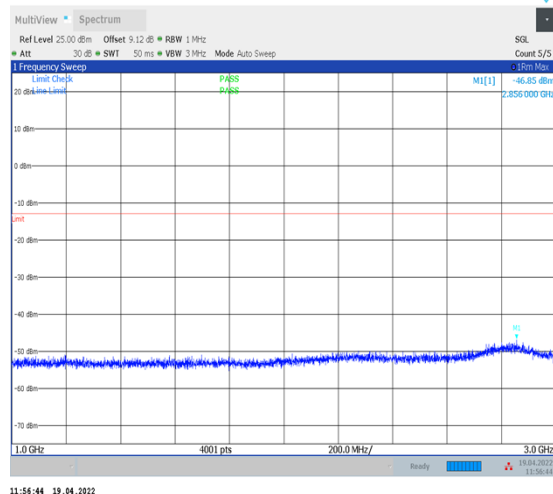
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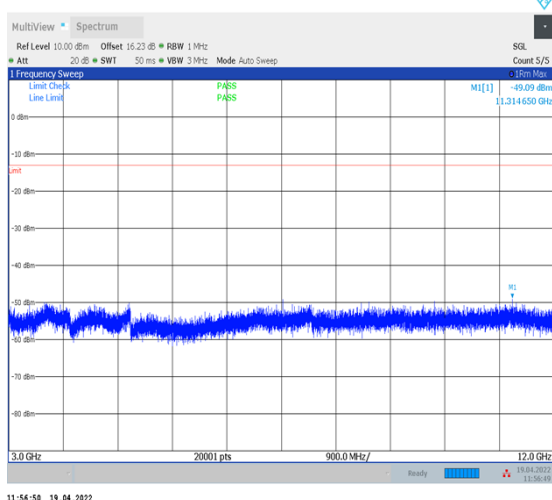
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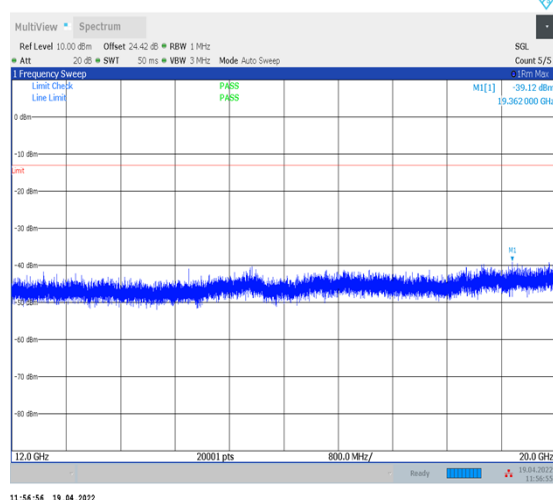
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1-N14--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--46.85--13-PASS



1-N14--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--49.09--13-PASS



1-N14--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant1--39.12--13-PASS



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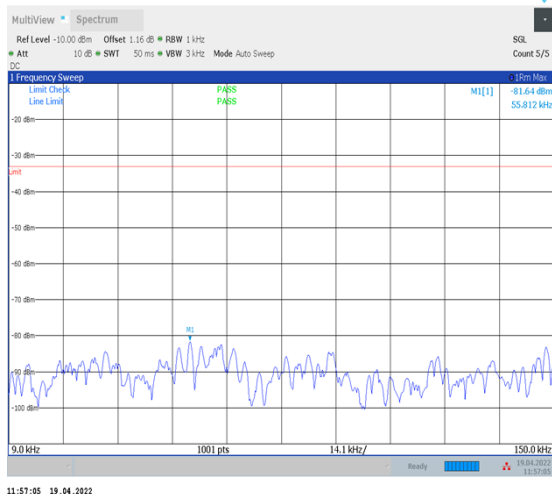
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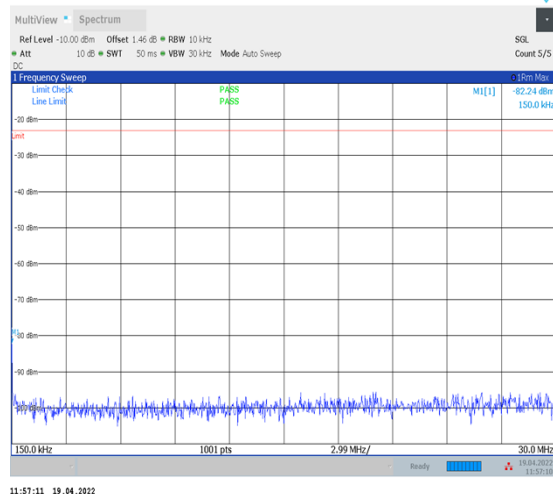
Report No.: SEWA2204000008RG02

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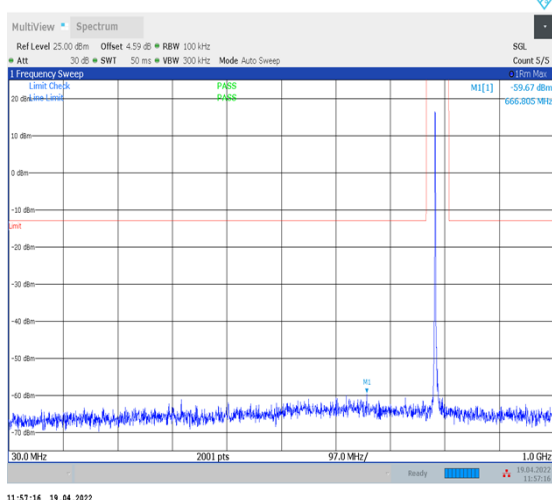
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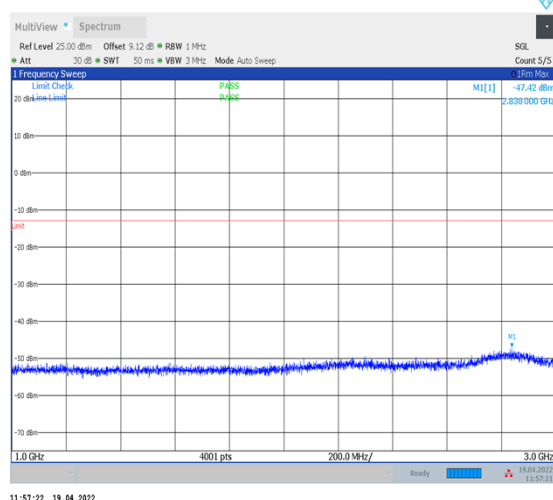
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1-N14--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--82.24--23-PASS



1-N14--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--59.67--13-PASS



1-N14--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--47.42--13-PASS



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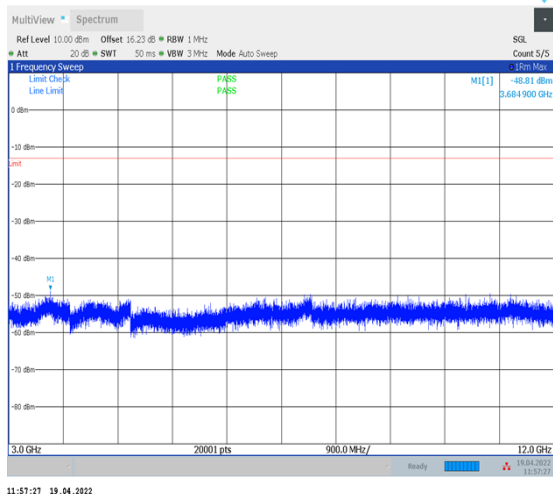
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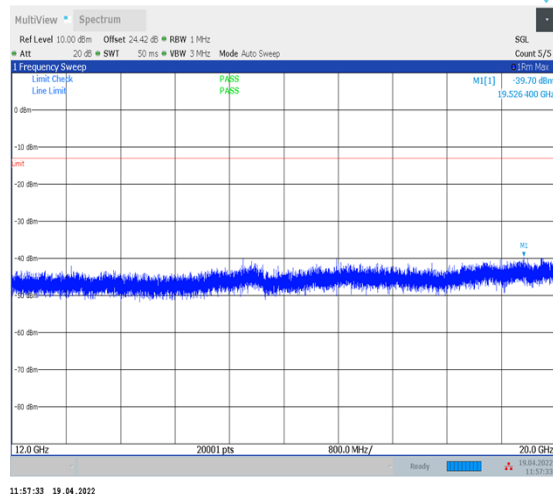
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1-N14--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-3000-12000-Ant1--48.81--13-PASS



1-N14--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-12000-20000-Ant1--39.70--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 14 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	1577.18	52.77	-118.20	-65.43	-40.00	25.43	263	204	Horizontal
2	2365.77	51.64	-115.23	-63.59	-13.00	50.59	251	3	Horizontal
3	3154.36	50.16	-112.11	-61.95	-13.00	48.95	174	80	Horizontal
4	3942.95	49.61	-110.31	-60.70	-13.00	47.70	186	283	Horizontal
5	4731.54	49.75	-107.87	-58.12	-13.00	45.12	264	0	Horizontal
6	5520.13	50.64	-106.35	-55.71	-13.00	42.71	188	142	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	53.85	-118.20	-64.35	-40.00	24.35	162	265	Vertical
2	2408	61.04	-115.07	-54.03	-13.00	41.03	241	234	Vertical
3	3154.36	50.79	-112.11	-61.32	-13.00	48.32	176	139	Vertical
4	3942.95	50.60	-110.31	-59.71	-13.00	46.71	284	359	Vertical
5	4731.54	51.05	-107.87	-56.82	-13.00	43.82	188	123	Vertical
6	5520.13	50.19	-106.35	-56.16	-13.00	43.16	264	77	Vertical



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Test Band = SA Band 14 BW 5M_ 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	1576.68	53.23	-118.20	-64.97	-40.00	24.97	142	290	Horizontal
2	2365.02	52.15	-115.23	-63.08	-13.00	50.08	263	120	Horizontal
3	3153.36	52.04	-112.12	-60.08	-13.00	47.08	241	89	Horizontal
4	3941.7	49.66	-110.32	-60.66	-13.00	47.66	117	360	Horizontal
5	4730.04	51.36	-107.88	-56.52	-13.00	43.52	265	151	Horizontal
6	5518.38	50.70	-106.36	-55.66	-13.00	42.66	244	306	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	53.08	-118.20	-65.12	-40.00	25.12	163	221	Vertical
2	2365.02	53.05	-115.23	-62.18	-13.00	49.18	251	96	Vertical
3	3153.36	51.73	-112.12	-60.39	-13.00	47.39	147	252	Vertical
4	3941.7	50.96	-110.32	-59.36	-13.00	46.36	265	214	Vertical
5	4730.04	49.78	-107.88	-58.10	-13.00	45.10	255	19	Vertical
6	5518.38	50.00	-106.36	-56.36	-13.00	43.36	144	357	Vertical



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Test Band = SA Band 14 BW 5M_ 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	1581.68	54.40	-118.19	-63.79	-40.00	23.79	263	77	Horizontal
2	2372.52	51.77	-115.22	-63.45	-13.00	50.45	241	360	Horizontal
3	3163.36	51.20	-112.09	-60.89	-13.00	47.89	175	313	Horizontal
4	3954.2	50.03	-110.28	-60.25	-13.00	47.25	265	125	Horizontal
5	4745.04	51.41	-107.85	-56.44	-13.00	43.44	255	62	Horizontal
6	5535.88	49.88	-106.29	-56.41	-13.00	43.41	147	15	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	53.48	-118.19	-64.71	-40.00	24.71	142	357	Vertical
2	2372.52	52.15	-115.22	-63.07	-13.00	50.07	263	155	Vertical
3	3163.36	51.28	-112.09	-60.81	-13.00	47.81	241	31	Vertical
4	3931.5556	57.18	-110.34	-53.16	-13.00	40.16	265	76	Vertical
5	4745.04	49.56	-107.85	-58.29	-13.00	45.29	244	16	Vertical
6	5535.88	50.33	-106.29	-55.96	-13.00	42.96	177	265	Vertical



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Test Band = SA Band 14 BW 5M_ 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	1586.68	52.00	-118.19	-66.19	-40.00	26.19	142	313	Horizontal
2	2380.02	52.05	-115.20	-63.15	-13.00	50.15	263	108	Horizontal
3	3173.36	50.57	-112.07	-61.50	-13.00	48.50	284	14	Horizontal
4	3966.7	50.53	-110.25	-59.72	-13.00	46.72	176	313	Horizontal
5	4760.04	49.81	-107.82	-58.01	-13.00	45.01	294	172	Horizontal
6	5553.38	49.89	-106.21	-56.32	-13.00	43.32	144	108	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	52.06	-118.19	-66.13	-40.00	26.13	142	110	Vertical
2	2380.02	51.18	-115.20	-64.02	-13.00	51.02	263	9	Vertical
3	3173.36	50.47	-112.07	-61.60	-13.00	48.60	251	94	Vertical
4	3966.7	49.27	-110.25	-60.98	-13.00	47.98	176	0	Vertical
5	4760.04	49.24	-107.82	-58.58	-13.00	45.58	284	170	Vertical
6	5553.38	50.08	-106.21	-56.13	-13.00	43.13	177	315	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
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.600000	0.003279	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VH	NT	5.200000	0.006557	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VN	NT	3.000000	0.003783	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VL	NT	10.400000	0.013115	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	1.600000	0.002018	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.600000	0.004540	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	3.400000	0.004288	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.800000	0.002270	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	3.500000	0.004414	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.200000	0.002774	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	4.400000	0.005549	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	4.200000	0.005296	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	5.300000	0.006683	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-30	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-20	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-10	5.800000	0.007314	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	0	6.900000	0.008701	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	10	4.500000	0.005675	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	20	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	30	5.000000	0.006305	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	40	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	50	4.000000	0.005044	PASS

The End



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