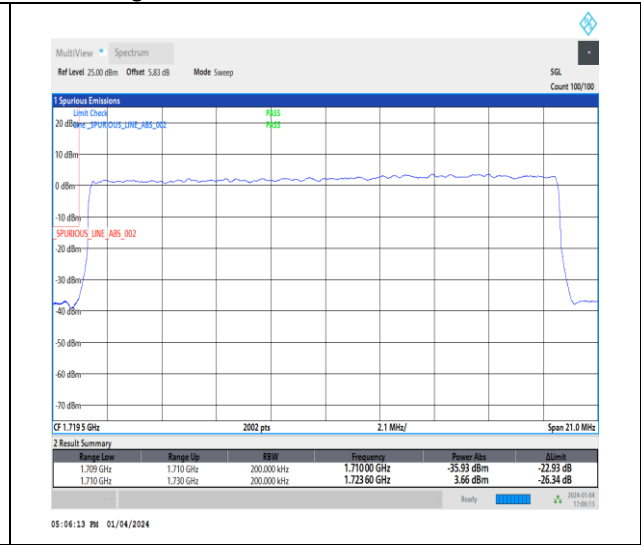
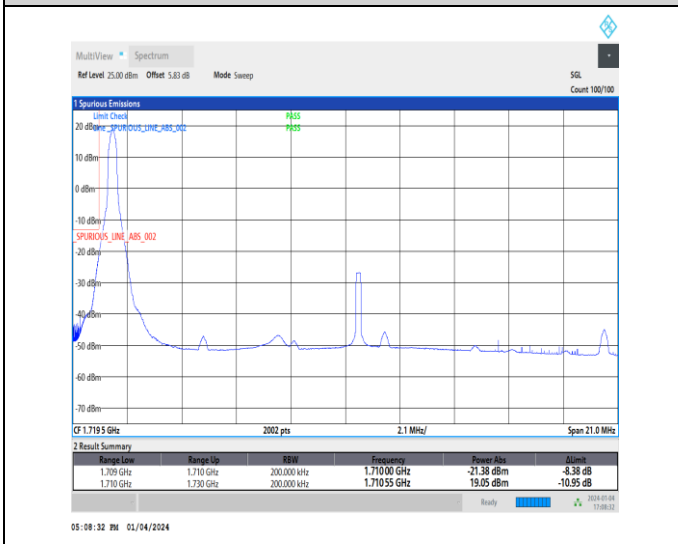


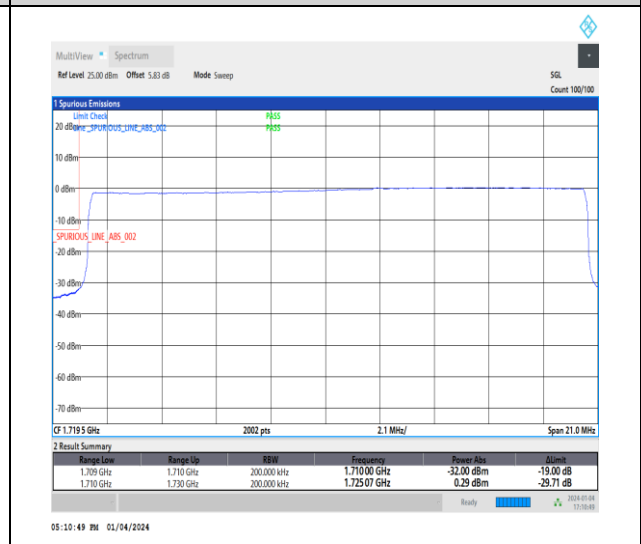
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1-N66-15-20-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1-seegraph-PASS-see graph



1-N66-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph



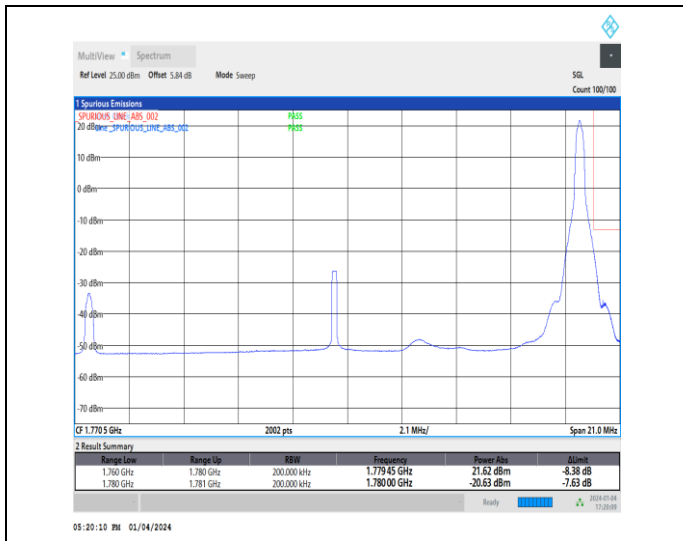
1-N66-15-20-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-1-seegraph-PASS-see graph



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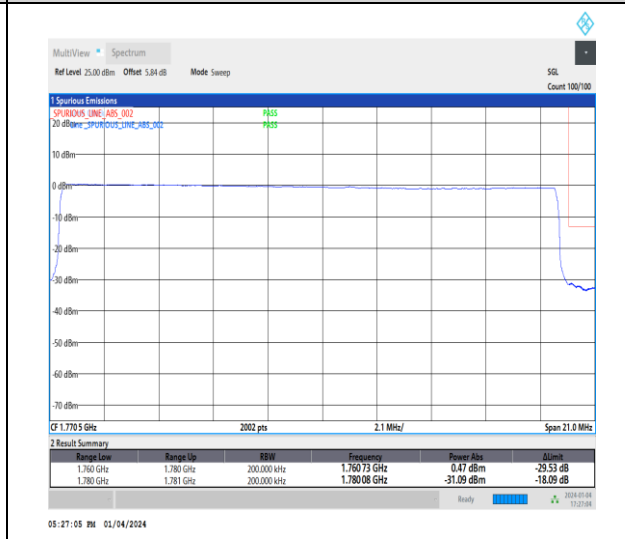
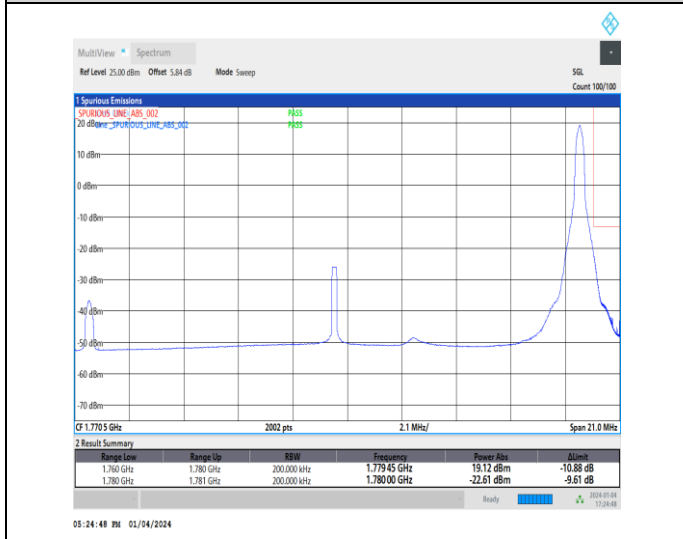
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1-N66-15-20-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@105-Ant1-1-seegraph-PASS-see graph

1-N66-15-20-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1-seegraph-PASS-see graph



1-N66-15-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-1-seegraph-PASS-see graph

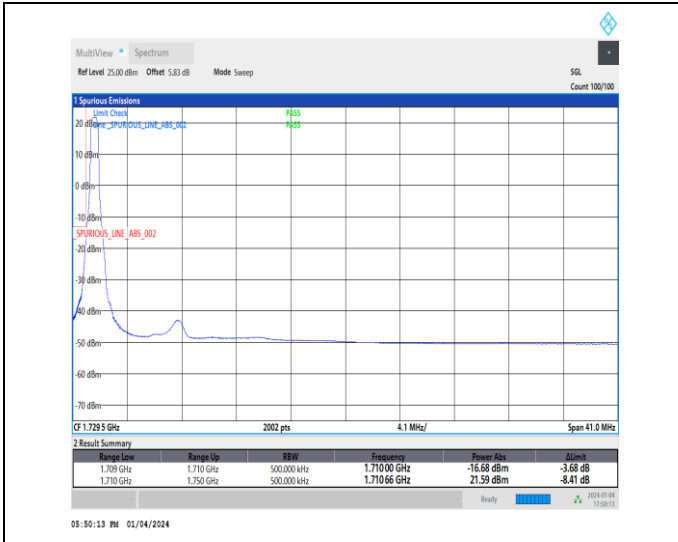
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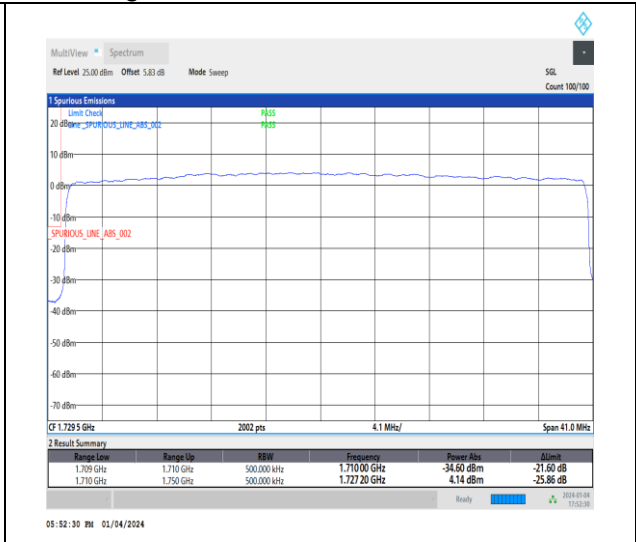
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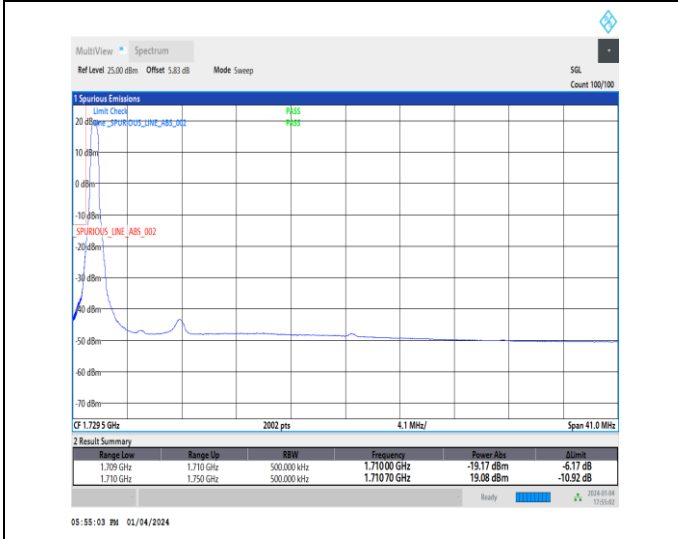
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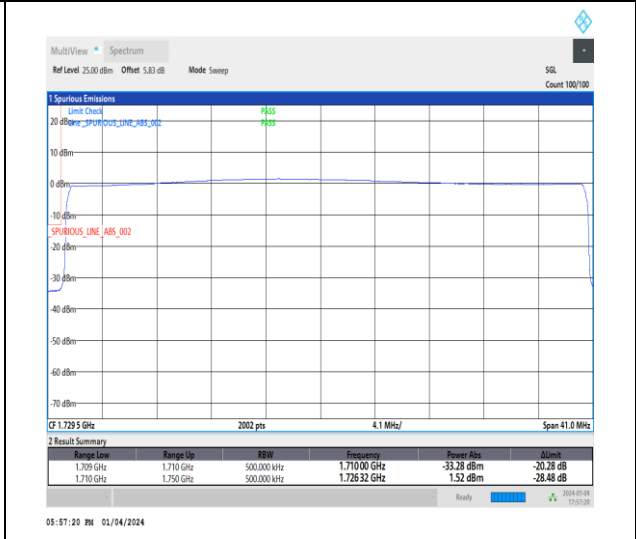
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1-N66-15-40-L-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant1-1-seegraph-PASS-see graph



1-N66-15-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph



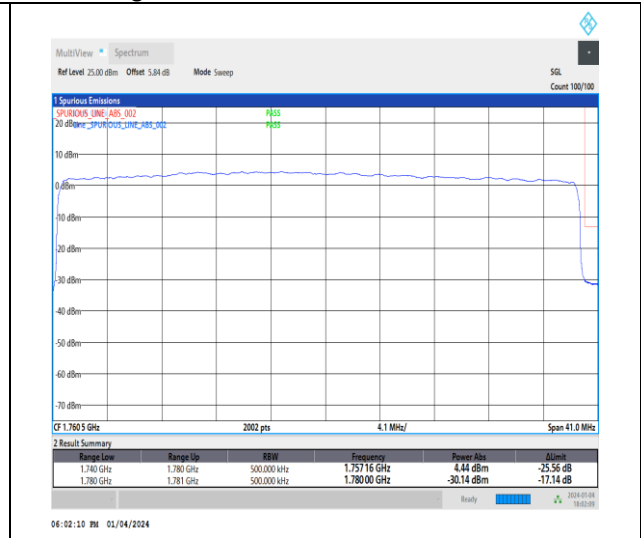
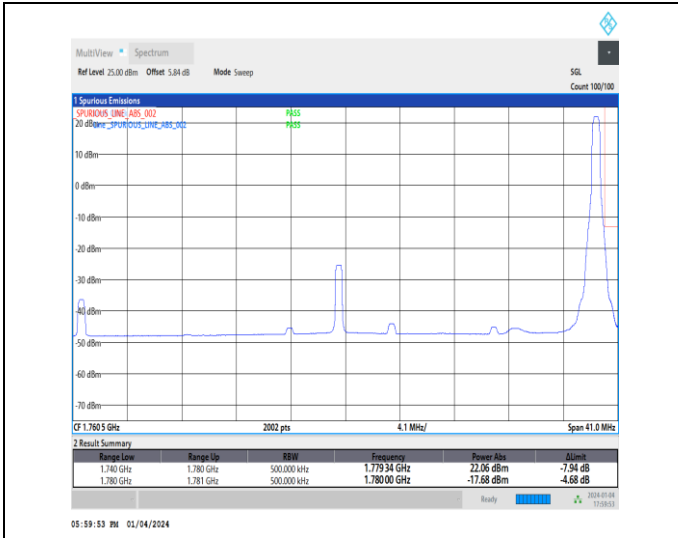
1-N66-15-40-L-6-CP-QPSK-Outer\_Full-216@0-Ant1-1-seegraph-PASS-see graph



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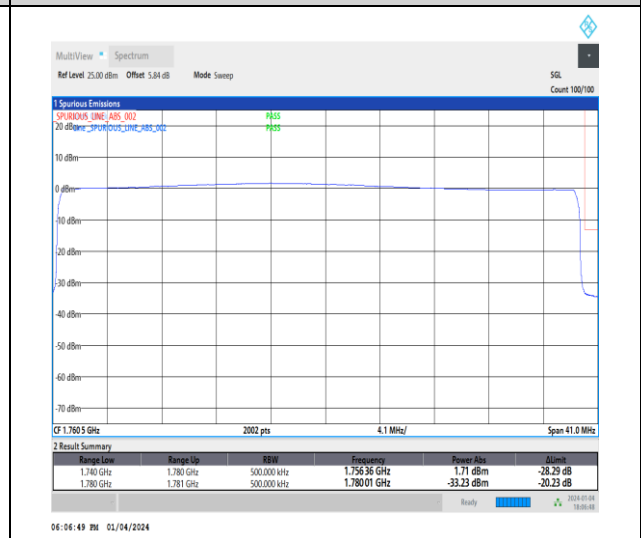
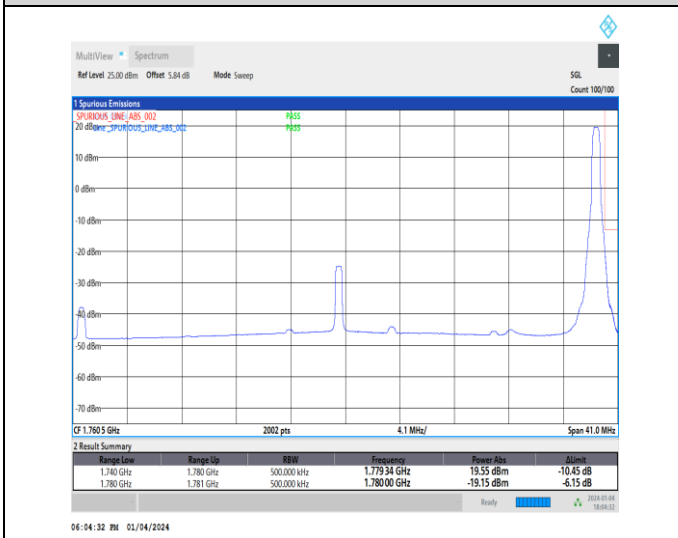
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1-N66-15-40-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@215-Ant1-1-seegraph-PASS-see graph

1-N66-15-40-H-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant1-1-seegraph-PASS-see graph



1-N66-15-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@215-Ant1-1-seegraph-PASS-see graph

1-N66-15-40-H-6-CP-QPSK-Outer\_Full-216@0-Ant1-1-seegraph-PASS-see graph



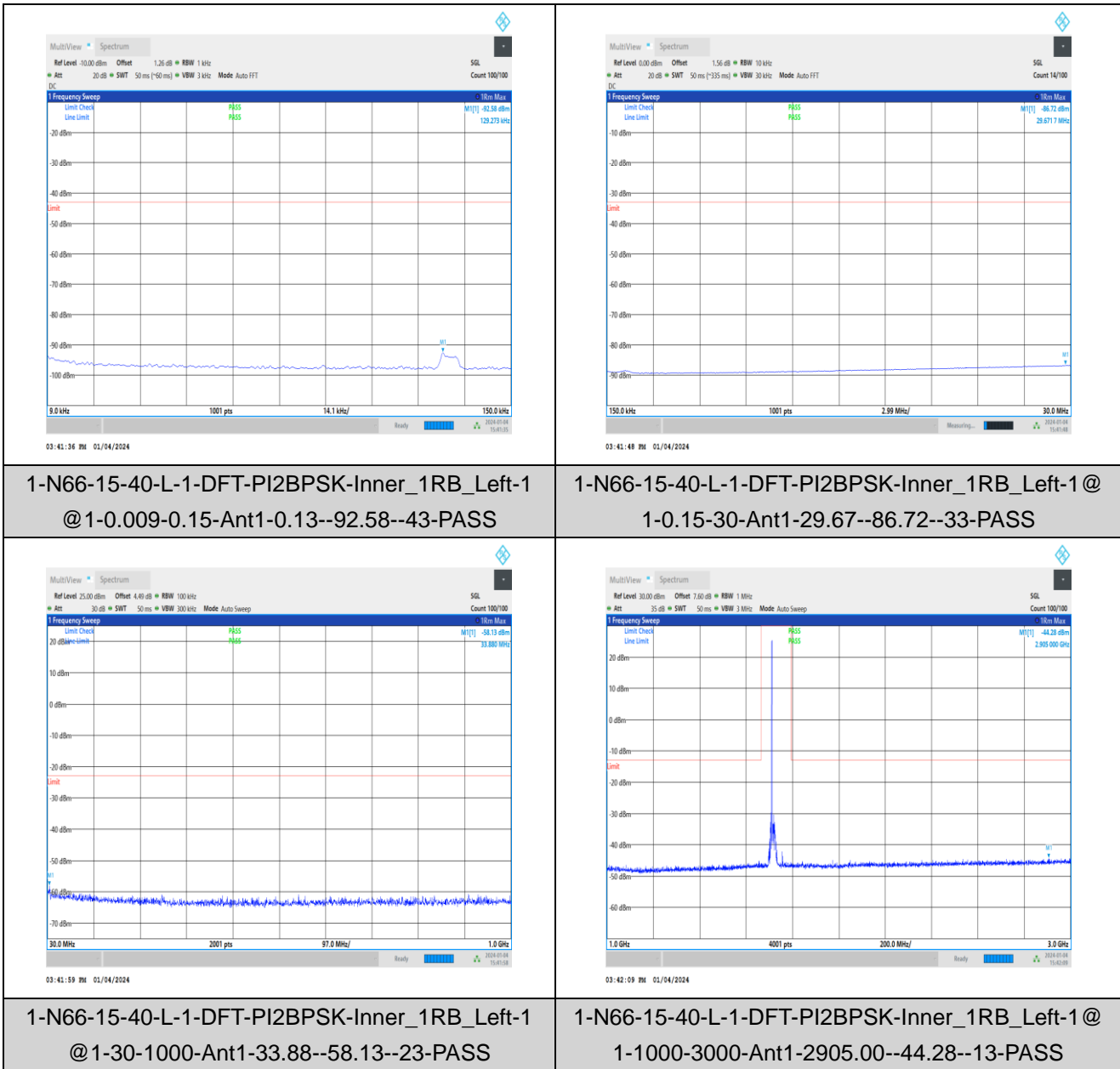
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## Conducted Spurious Emission for SA

### Test Graphs



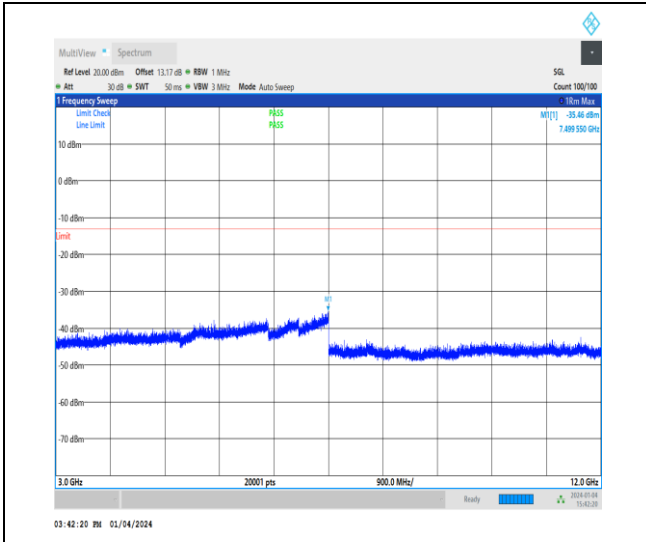
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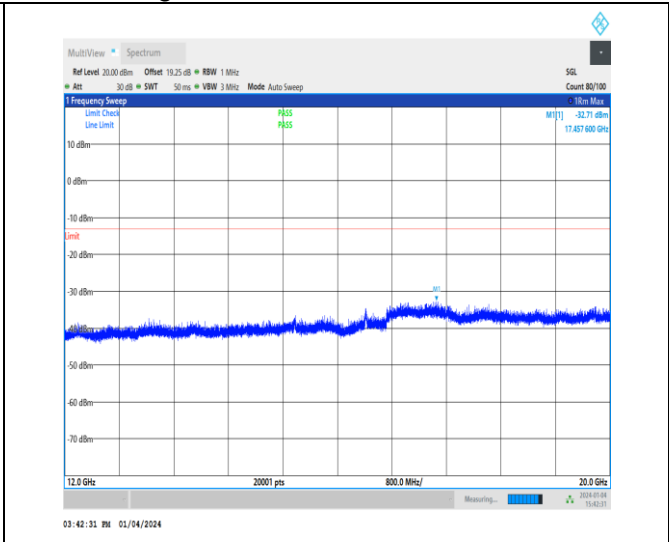
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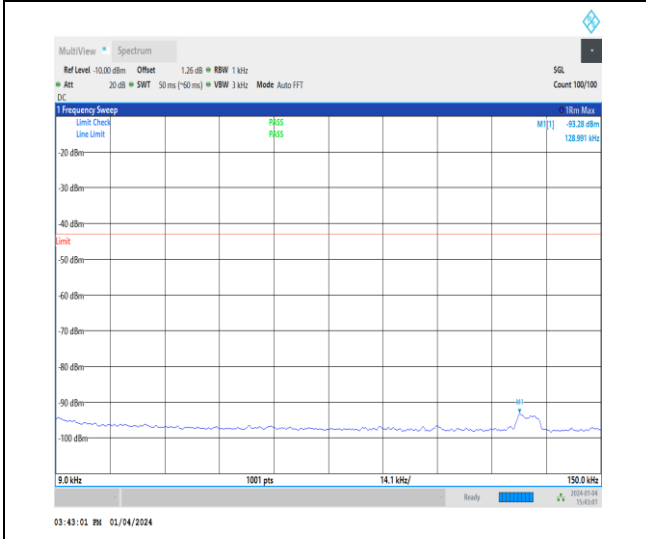
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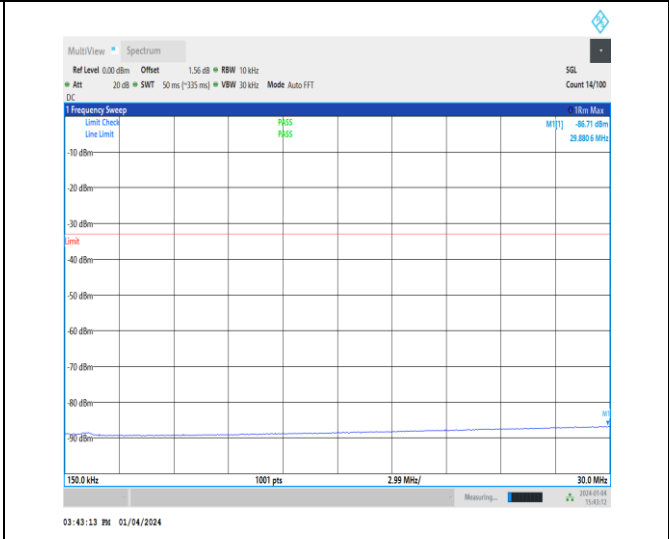
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1-N66-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant1-17457.60--32.71--13-PASS



1-N66-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.009-0.15-Ant1-0.13--93.28--43-PASS



1-N66-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant1-29.88--86.71--33-PASS

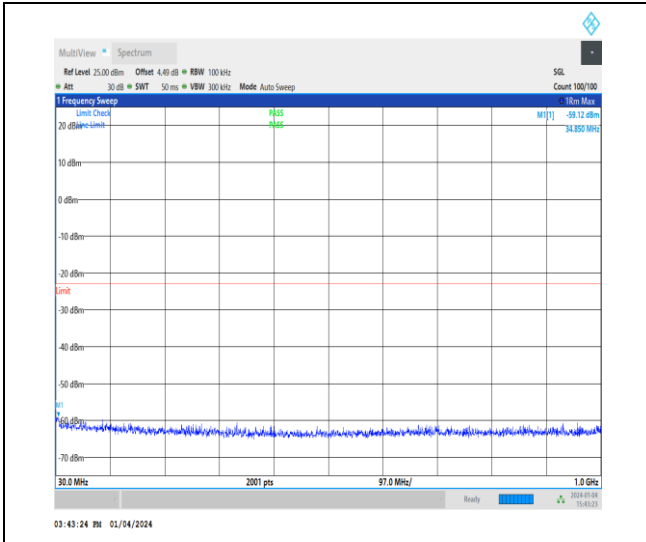


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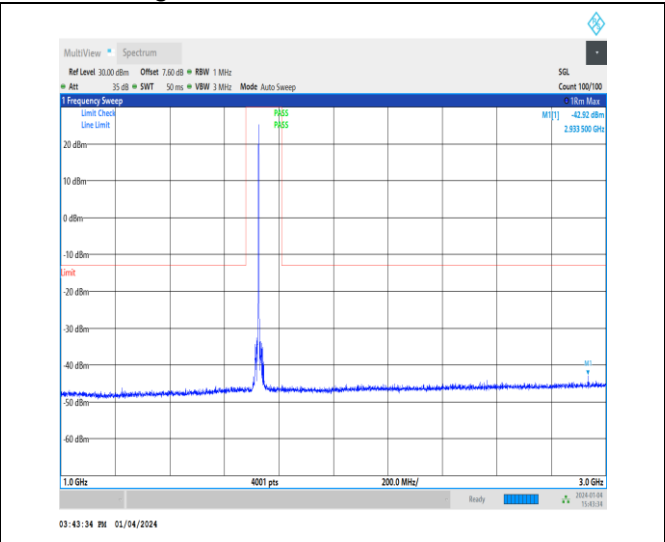
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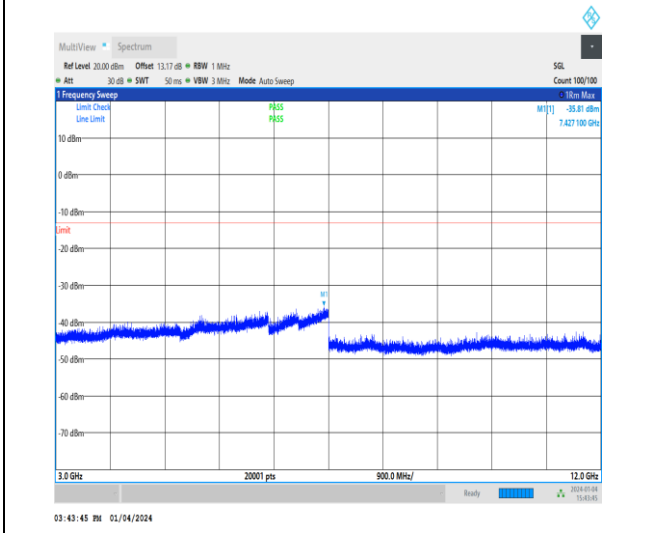
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 t (86-512) 62992980 sgs.china@sgs.com



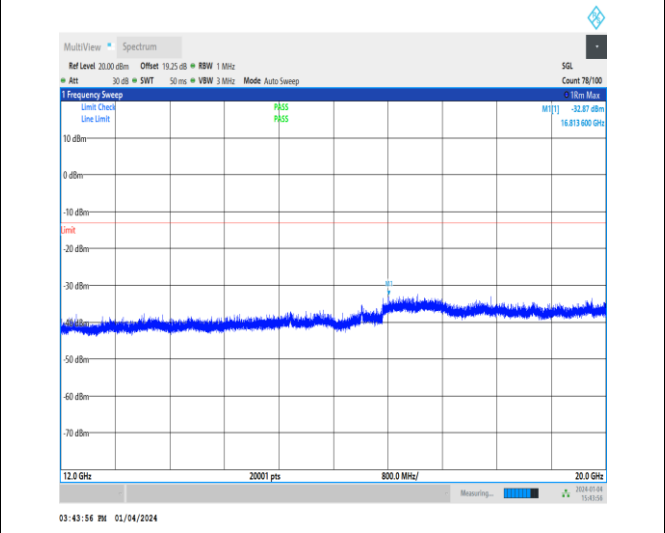
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1-N66-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant1-2933.50--42.92--13-PASS



1-N66-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant1-7427.10--35.81--13-PASS



1-N66-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant1-16813.60--32.87--13-PASS



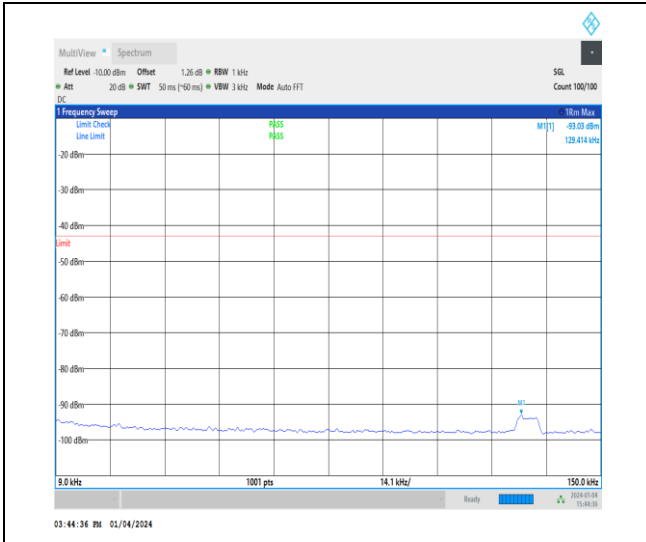
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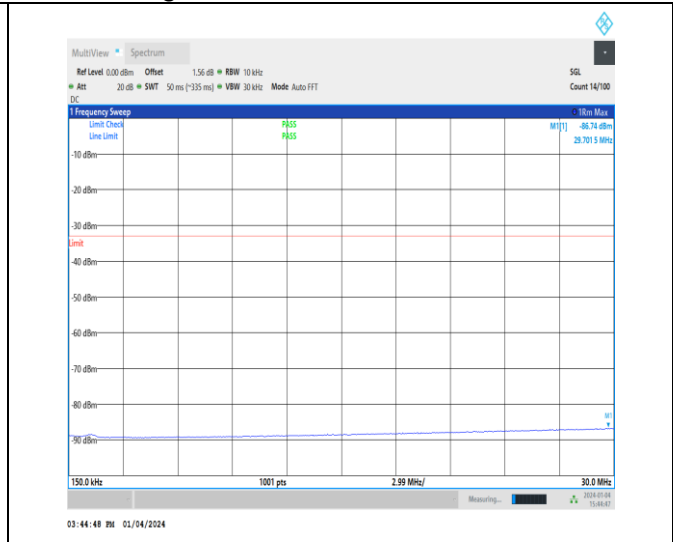
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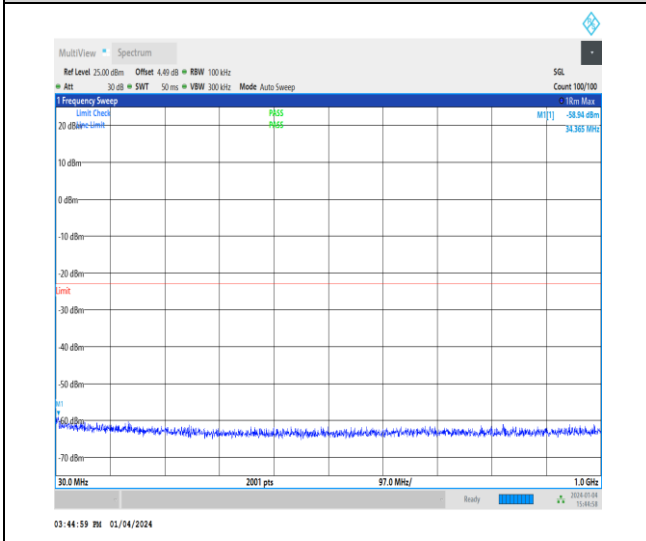
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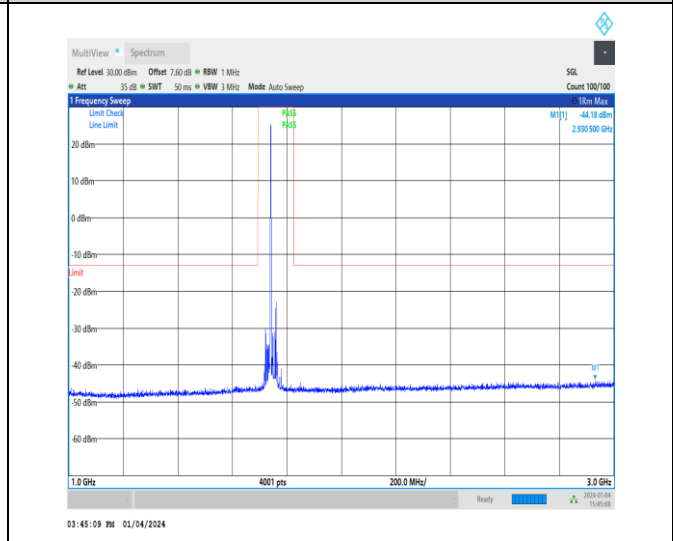
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1-N66-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant1-29.70--86.74--33-PASS



1-N66-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant1-34.37--58.94--23-PASS



1-N66-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant1-2930.50--44.18--13-PASS



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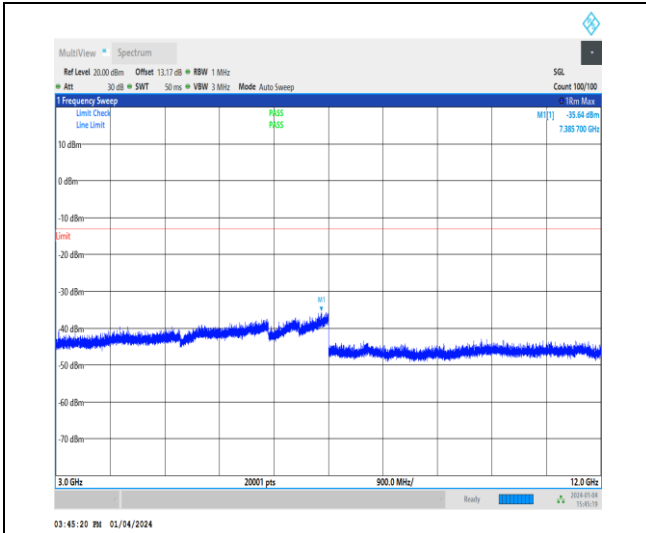
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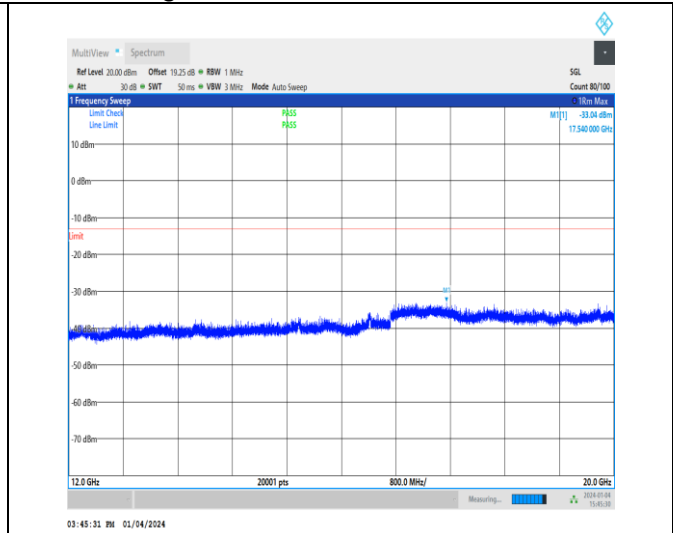
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1-N66-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant1-7385.70--35.64--13-PASS



1-N66-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant1-17540.00--33.04--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band66\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.76	-46.28	28.55	-72.22	-13.00	59.22	Horizontal
2	5133.2700	39.21	-45.34	31.72	-69.67	-13.00	56.67	Horizontal
3	6844.3600	38.69	-44.14	34.92	-65.79	-13.00	52.79	Horizontal
4	8555.4500	35.74	-41.46	36.52	-64.46	-13.00	51.46	Horizontal
5	10266.5400	31.66	-39.23	38.33	-64.49	-13.00	51.49	Horizontal
6	11977.6300	28.27	-37.51	38.80	-65.71	-13.00	52.71	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.35	-46.28	28.55	-72.63	-13.00	59.63	Vertical
2	5133.2700	38.93	-45.34	31.72	-69.95	-13.00	56.95	Vertical
3	6844.3600	38.42	-44.14	34.92	-66.06	-13.00	53.06	Vertical
4	8555.4500	35.55	-41.46	36.52	-64.65	-13.00	51.65	Vertical
5	10266.5400	32.28	-39.23	38.33	-63.87	-13.00	50.87	Vertical
6	11977.6300	27.98	-37.51	38.80	-66.00	-13.00	53.00	Vertical



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Test Band = SA Band66\_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.79	-46.27	28.58	-71.15	-13.00	58.15	Horizontal
2	5208.2700	38.92	-45.26	31.90	-69.70	-13.00	56.70	Horizontal
3	6944.3600	38.07	-43.85	35.10	-65.94	-13.00	52.94	Horizontal
4	8680.4500	36.03	-41.62	36.46	-64.39	-13.00	51.39	Horizontal
5	10416.5400	32.04	-38.97	38.41	-63.79	-13.00	50.79	Horizontal
6	12152.6300	29.22	-37.42	38.85	-64.61	-13.00	51.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	40.58	-46.27	28.58	-72.36	-13.00	59.36	Vertical
2	5208.2700	39.27	-45.26	31.90	-69.35	-13.00	56.35	Vertical
3	6944.3600	37.96	-43.85	35.10	-66.05	-13.00	53.05	Vertical
4	8680.4500	36.25	-41.62	36.46	-64.17	-13.00	51.17	Vertical
5	10416.5400	31.44	-38.97	38.41	-64.39	-13.00	51.39	Vertical
6	12152.6300	30.15	-37.42	38.85	-63.68	-13.00	50.68	Vertical



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Test Band = SA Band66\_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.1800	41.86	-46.23	28.62	-71.01	-13.00	58.01	Horizontal
2	5283.2700	39.41	-45.12	32.08	-68.89	-13.00	55.89	Horizontal
3	7044.3600	37.81	-43.85	35.33	-65.97	-13.00	52.97	Horizontal
4	8805.4500	35.21	-41.25	36.40	-64.90	-13.00	51.90	Horizontal
5	10566.5400	31.62	-38.58	38.48	-63.74	-13.00	50.74	Horizontal
6	12327.6300	29.36	-37.45	38.90	-64.45	-13.00	51.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.1800	40.47	-46.23	28.62	-72.40	-13.00	59.40	Vertical
2	5283.2700	39.16	-45.12	32.08	-69.14	-13.00	56.14	Vertical
3	7044.3600	37.49	-43.85	35.33	-66.29	-13.00	53.29	Vertical
4	8805.4500	35.58	-41.25	36.40	-64.53	-13.00	51.53	Vertical
5	10566.5400	31.29	-38.58	38.48	-64.07	-13.00	51.07	Vertical
6	12327.6300	29.09	-37.45	38.90	-64.72	-13.00	51.72	Vertical



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Report No.: SEWA2310000127RG02

Rev.: 01

Page: 39 of 43

Test Band = NSA 12A\_N66A\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	41.15	-46.28	28.54	-71.85	-13.00	58.85	Horizontal
2	5106.2700	39.00	-45.36	31.66	-69.97	-13.00	56.97	Horizontal
3	6808.3600	38.48	-44.16	34.86	-66.09	-13.00	53.09	Horizontal
4	8510.4500	34.98	-41.59	36.54	-65.32	-13.00	52.32	Horizontal
5	10212.5400	30.53	-39.45	38.31	-65.87	-13.00	52.87	Horizontal
6	11914.6300	26.97	-37.18	38.79	-66.68	-13.00	53.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	40.90	-46.28	28.54	-72.10	-13.00	59.10	Vertical
2	5106.2700	39.19	-45.36	31.66	-69.78	-13.00	56.78	Vertical
3	6808.3600	38.15	-44.16	34.86	-66.42	-13.00	53.42	Vertical
4	8510.4500	35.62	-41.59	36.54	-64.68	-13.00	51.68	Vertical
5	10212.5400	30.82	-39.45	38.31	-65.58	-13.00	52.58	Vertical
6	11914.6300	28.03	-37.18	38.79	-65.62	-13.00	52.62	Vertical



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Test Band = NSA 12A\_N66A\_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.1800	41.07	-46.27	28.57	-71.89	-13.00	58.89	Horizontal
2	5181.2700	38.16	-45.30	31.84	-70.56	-13.00	57.56	Horizontal
3	6908.3600	37.17	-44.05	35.04	-67.10	-13.00	54.10	Horizontal
4	8635.4500	35.88	-41.46	36.48	-64.36	-13.00	51.36	Horizontal
5	10362.5400	32.36	-39.04	38.38	-63.56	-13.00	50.56	Horizontal
6	12089.6300	27.45	-37.37	38.83	-66.35	-13.00	53.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.1800	41.08	-46.27	28.57	-71.88	-13.00	58.88	Vertical
2	5181.2700	38.92	-45.30	31.84	-69.80	-13.00	56.80	Vertical
3	6908.3600	37.82	-44.05	35.04	-66.45	-13.00	53.45	Vertical
4	8635.4500	35.18	-41.46	36.48	-65.06	-13.00	52.06	Vertical
5	10362.5400	30.82	-39.04	38.38	-65.10	-13.00	52.10	Vertical
6	12089.6300	27.59	-37.37	38.83	-66.21	-13.00	53.21	Vertical



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Test Band = NSA 12A\_N66A\_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.1800	40.43	-46.25	28.60	-72.48	-13.00	59.48	Horizontal
2	5256.2700	39.15	-45.17	32.02	-69.27	-13.00	56.27	Horizontal
3	7008.3600	37.98	-43.61	35.22	-65.66	-13.00	52.66	Horizontal
4	8760.4500	34.77	-41.42	36.42	-65.49	-13.00	52.49	Horizontal
5	10512.5400	29.81	-38.76	38.46	-65.75	-13.00	52.75	Horizontal
6	12262.6300	27.34	-37.44	38.88	-66.48	-13.00	53.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.1800	41.17	-46.25	28.60	-71.74	-13.00	58.74	Vertical
2	5256.2700	39.21	-45.17	32.02	-69.21	-13.00	56.21	Vertical
3	7008.3600	37.42	-43.61	35.22	-66.22	-13.00	53.22	Vertical
4	8760.4500	34.68	-41.42	36.42	-65.58	-13.00	52.58	Vertical
5	10512.5400	30.39	-38.76	38.46	-65.17	-13.00	52.17	Vertical
6	12262.6300	26.70	-37.44	38.88	-67.12	-13.00	54.12	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

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	7.600000	0.004355	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-6.900000	-0.003954	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-6.300000	-0.003610	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VH	NT	3.000000	0.001719	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VN	NT	-3.000000	-0.001719	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VL	NT	-4.100000	-0.002350	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.700000	0.005559	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.400000	0.004814	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-8.700000	-0.004986	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.300000	-0.001318	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.100000	-0.004069	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	9.700000	0.005559	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	5.100000	0.002923	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	9.400000	0.005387	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.900000	-0.002235	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-30	-5.900000	-0.003381	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-20	-1.900000	-0.001089	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-10	-3.400000	-0.001948	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	0	-6.300000	-0.003610	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	10	0.200000	0.000115	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	20	-5.200000	-0.002980	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	30	-3.000000	-0.001719	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	40	-2.400000	-0.001375	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	50	6.700000	0.003840	PASS

---End of Attachment---



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