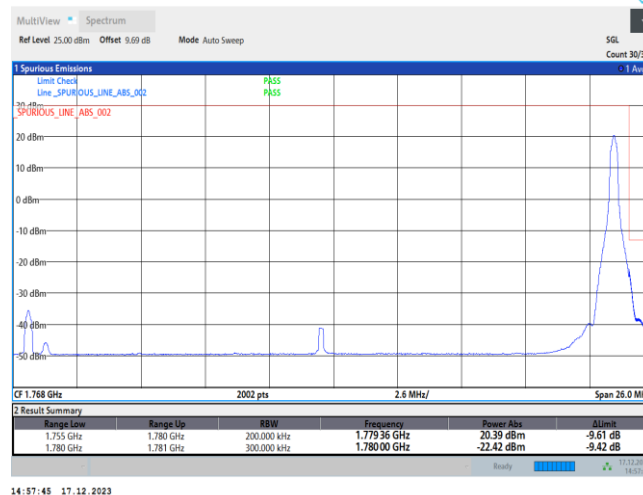




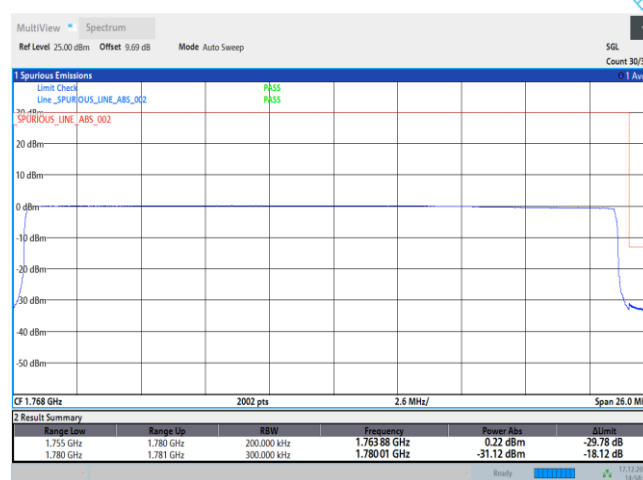
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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 186 of 212



14:57:45 17.12.2023

1-N66-PC3-15-25-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant0-1-seegraph-PASS-see graph



14:58:33 17.12.2023

1-N66-PC3-15-25-H-6-CP-QPSK-Outer_Full-133@0-Ant0-1-seegraph-PASS-see graph



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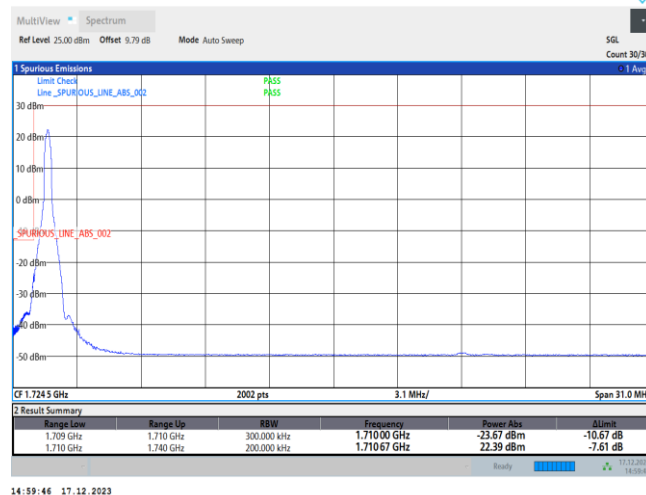
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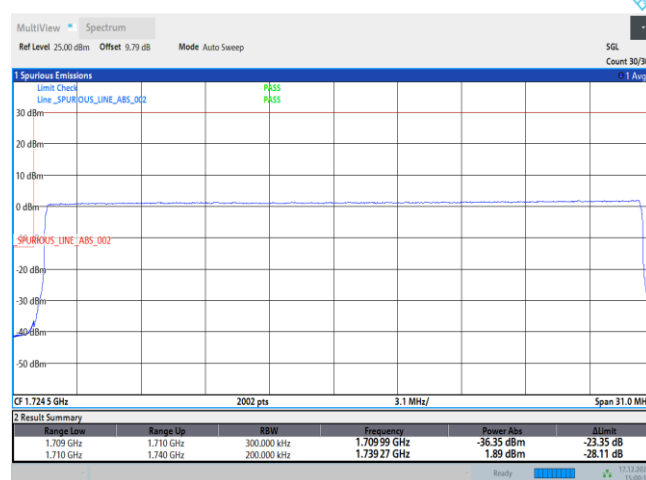
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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 187 of 212



14:59:46 17.12.2023

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15:00:35 17.12.2023

1-N66-PC3-15-30-L-3-DFT-PI2BPSK-Outer_Full-160@0-Ant0-1-seegraph-PASS-see graph



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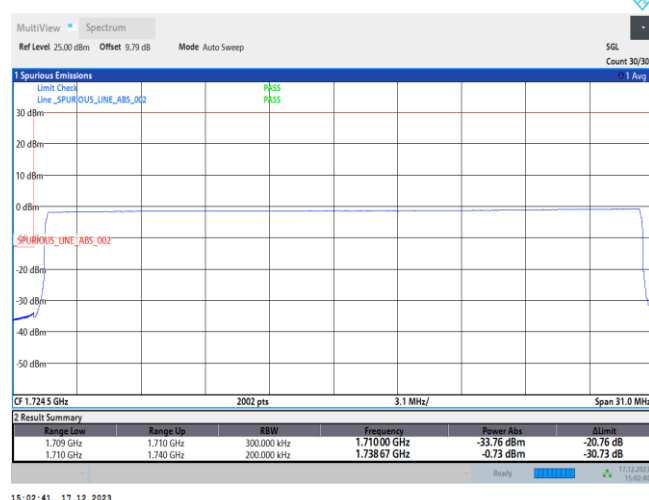
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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 188 of 212



15:01:54 17.12.2023

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15:02:41 17.12.2023

1-N66-PC3-15-30-L-6-CP-QPSK-Outer_Full-160@0-Ant0-1-seegraph-PASS-see graph



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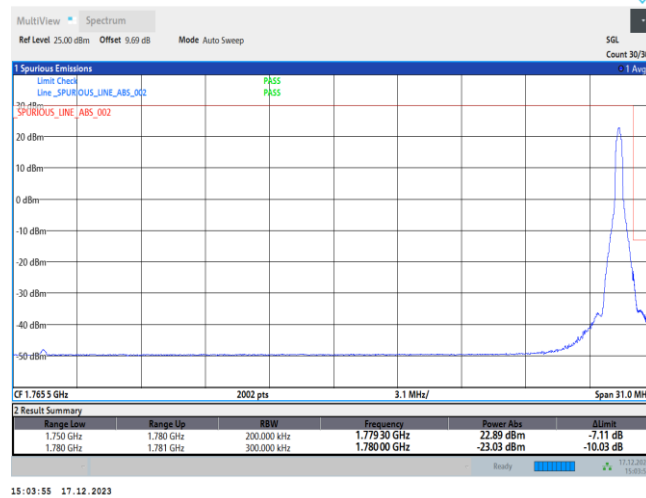
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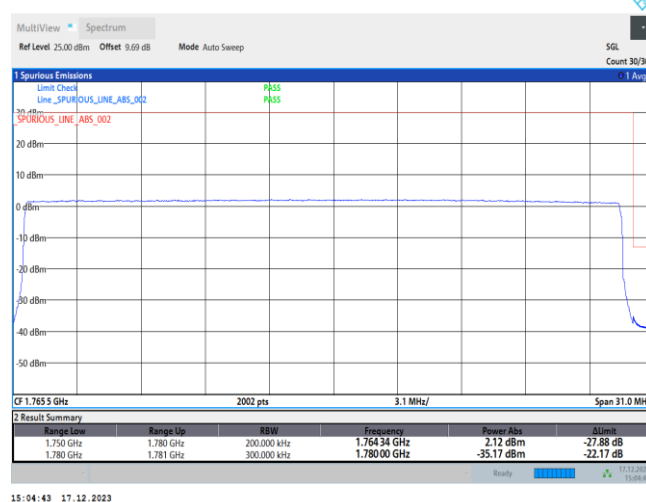


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 189 of 212



1-N66-PC3-15-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@159-Ant0-1-seegraph-PASS-see graph



1-N66-PC3-15-30-H-3-DFT-PI2BPSK-Outer_Full-160@0-Ant0-1-seegraph-PASS-see graph



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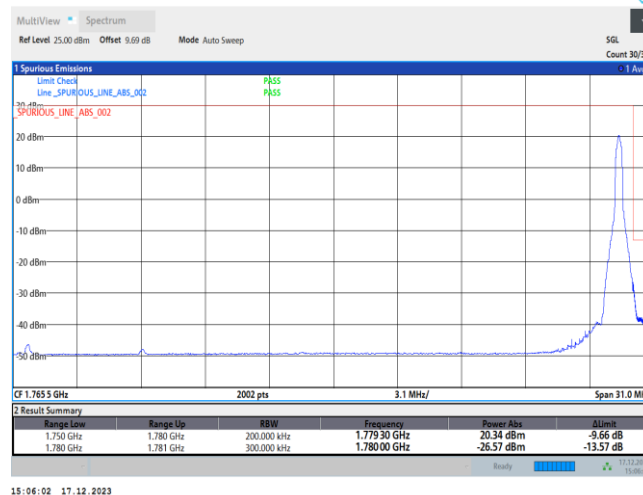
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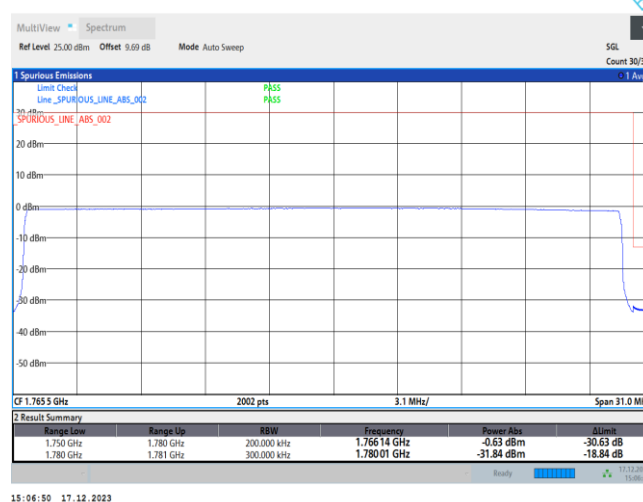


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 190 of 212



1-N66-PC3-15-30-H-5-CP-QPSK-Edge_1RB_Right-1@159-Ant0-1-seegraph-PASS-see graph



1-N66-PC3-15-30-H-6-CP-QPSK-Outer_Full-160@0-Ant0-1-seegraph-PASS-see graph



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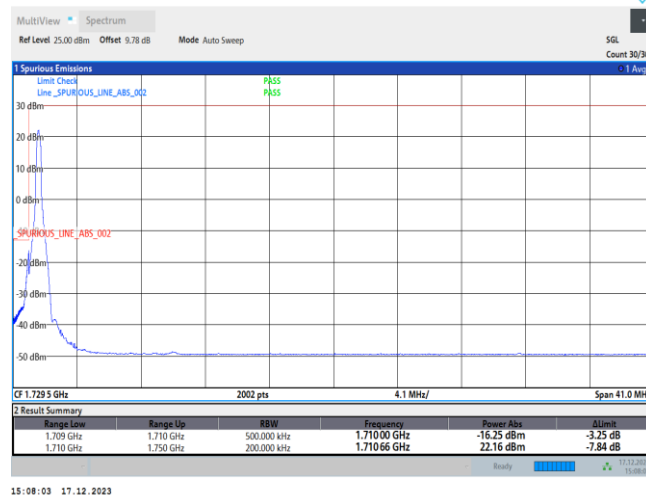
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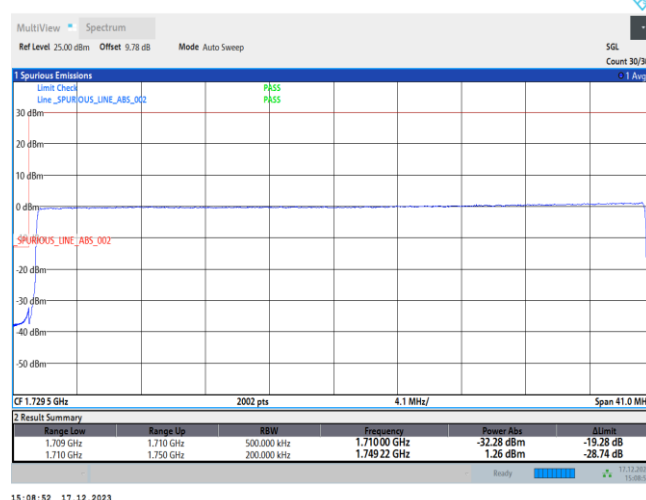
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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 191 of 212



15:08:03 17.12.2023

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15:08:52 17.12.2023

1-N66-PC3-15-40-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant0-1-seegraph-PASS-see graph



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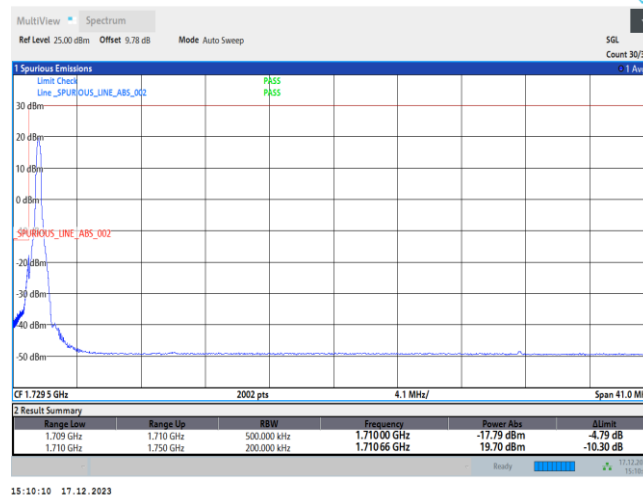
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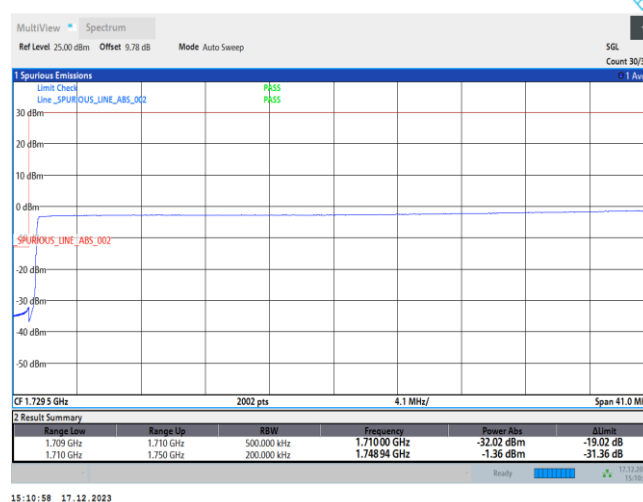


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 192 of 212



1-N66-PC3-15-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph



1-N66-PC3-15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant0-1-seegraph-PASS-see graph



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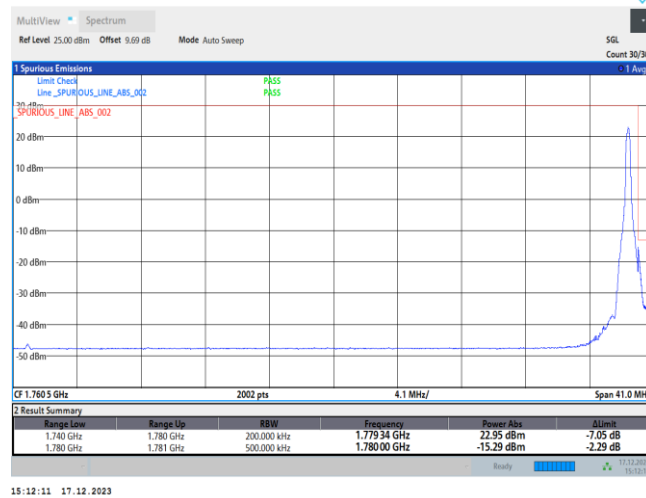
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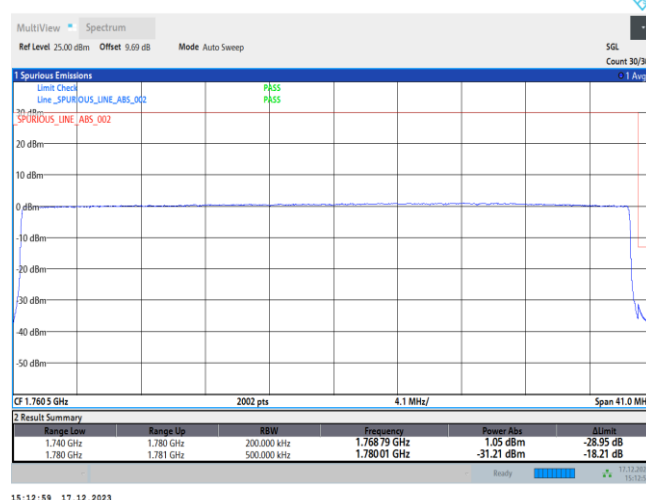
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Rev.: 01
Page: 193 of 212



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15:12:59 17.12.2023

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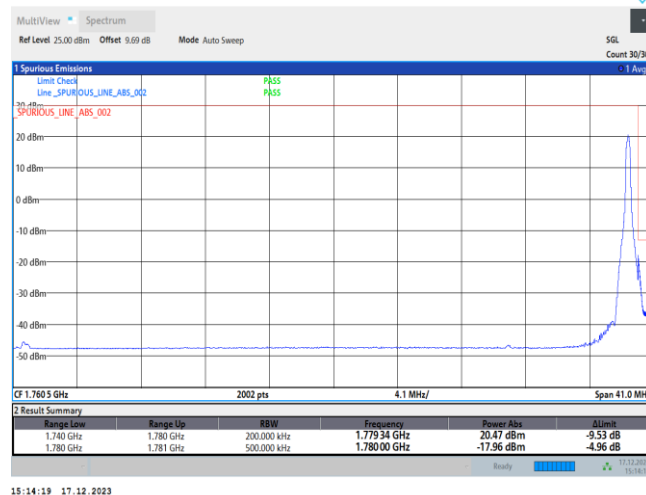
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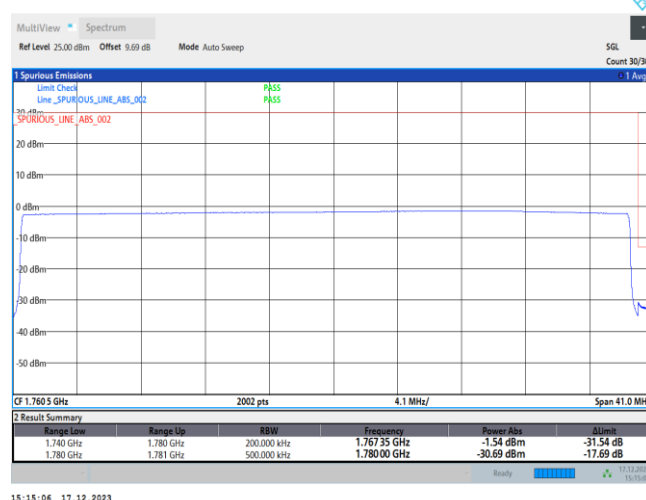
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Rev.: 01
Page: 194 of 212



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15:15:06 17.12.2023

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Rev.: 01
Page: 195 of 212

Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N66	15	40	DFT-PI2BPSK	L	0.009	0.15	1@1	-62.46	-43	PASS
N66	15	40	DFT-PI2BPSK	L	0.15	30	1@1	-61.16	-33	PASS
N66	15	40	DFT-PI2BPSK	L	30	1000	1@1	-55.10	-23	PASS
N66	15	40	DFT-PI2BPSK	L	1000	3000	1@1	-37.67	-13	PASS
N66	15	40	DFT-PI2BPSK	L	3000	12000	1@1	-35.54	-13	PASS
N66	15	40	DFT-PI2BPSK	L	12000	20000	1@1	-24.39	-13	PASS
N66	15	40	DFT-PI2BPSK	M	0.009	0.15	1@1	-62.27	-43	PASS
N66	15	40	DFT-PI2BPSK	M	0.15	30	1@1	-62.63	-33	PASS
N66	15	40	DFT-PI2BPSK	M	30	1000	1@1	-55.67	-23	PASS
N66	15	40	DFT-PI2BPSK	M	1000	3000	1@1	-37.98	-13	PASS
N66	15	40	DFT-PI2BPSK	M	3000	12000	1@1	-34.96	-13	PASS
N66	15	40	DFT-PI2BPSK	M	12000	20000	1@1	-24.37	-13	PASS
N66	15	40	DFT-PI2BPSK	H	0.009	0.15	1@1	-60.38	-43	PASS
N66	15	40	DFT-PI2BPSK	H	0.15	30	1@1	-62.13	-33	PASS
N66	15	40	DFT-PI2BPSK	H	30	1000	1@1	-56.17	-23	PASS
N66	15	40	DFT-PI2BPSK	H	1000	3000	1@1	-38.55	-13	PASS
N66	15	40	DFT-PI2BPSK	H	3000	12000	1@1	-35.27	-13	PASS
N66	15	40	DFT-PI2BPSK	H	12000	20000	1@1	-24.28	-13	PASS



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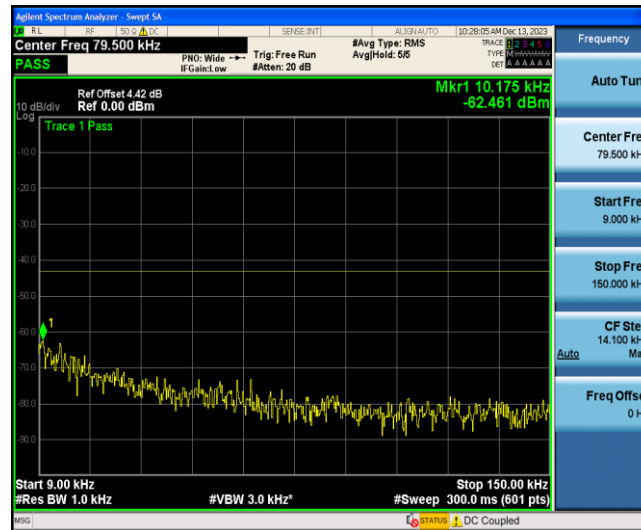
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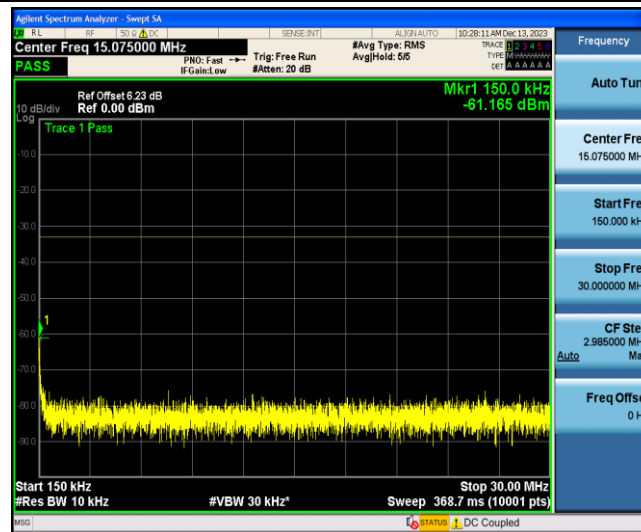
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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 196 of 212

Test Graphs



1-N66-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.009-0.15-Ant0-0.01--62.46--43-PASS



1-N66-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.15-30-Ant0-0.15--61.16--33-PASS



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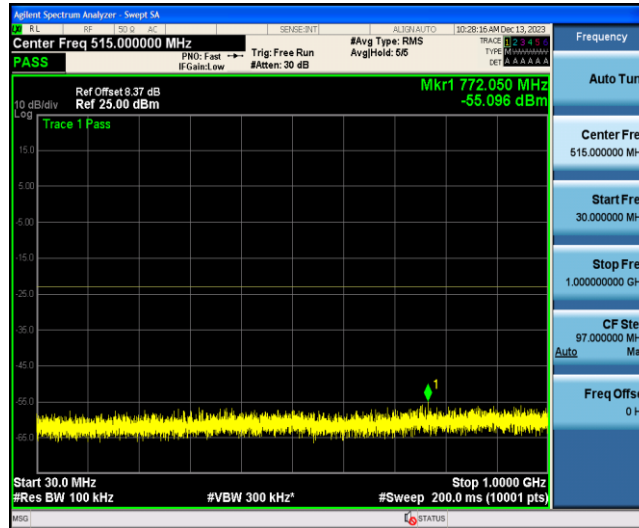
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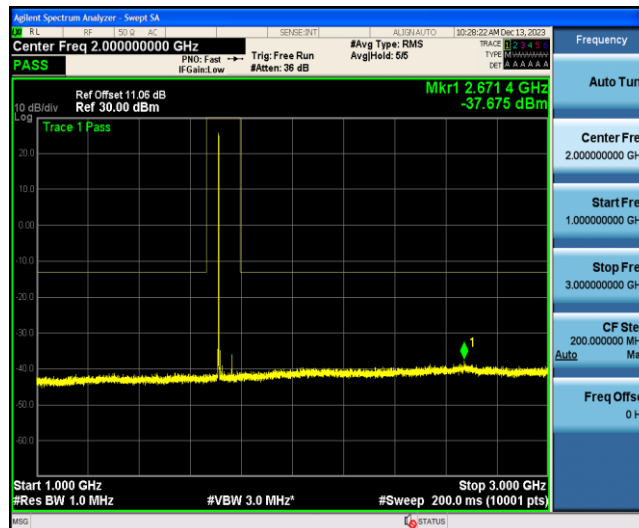


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 197 of 212



1-N66-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-30-1000-Ant0-772.05--55.10--23-PASS



1-N66-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-1000-3000-Ant0-2671.40--37.67--13-PASS



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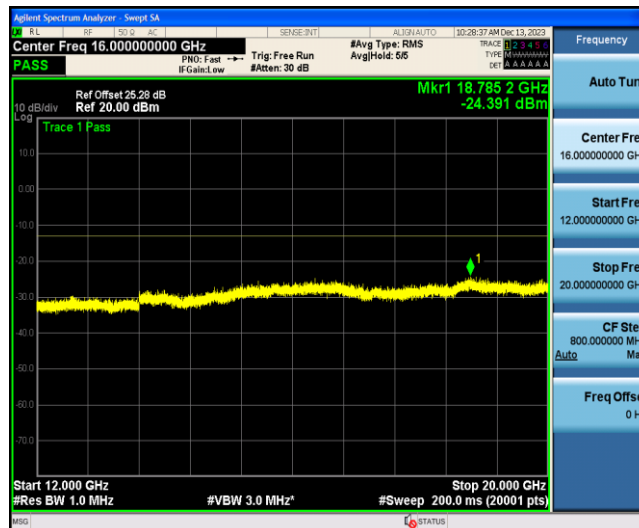


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 198 of 212



1-N66-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-3000-12000-Ant0-5770.65--35.54--13-PASS



1-N66-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-12000-20000-Ant0-18785.20--24.39--13-PA

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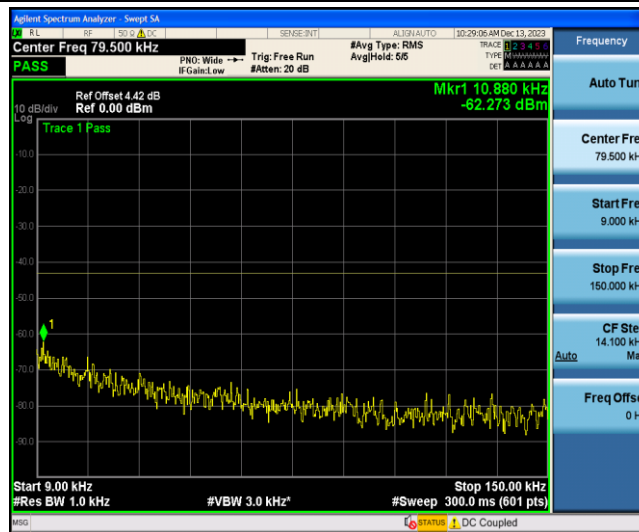
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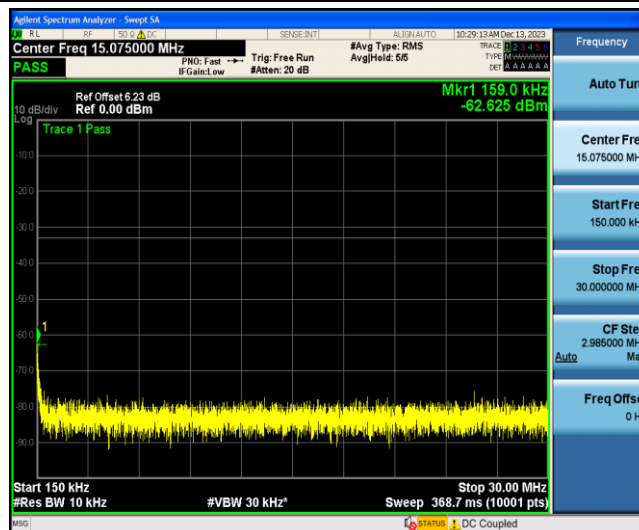


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 199 of 212



1-N66-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.009-0.15-Ant0-0.01--62.27--43-PASS



1-N66-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.15-30-Ant0-0.16--62.63--33-PASS



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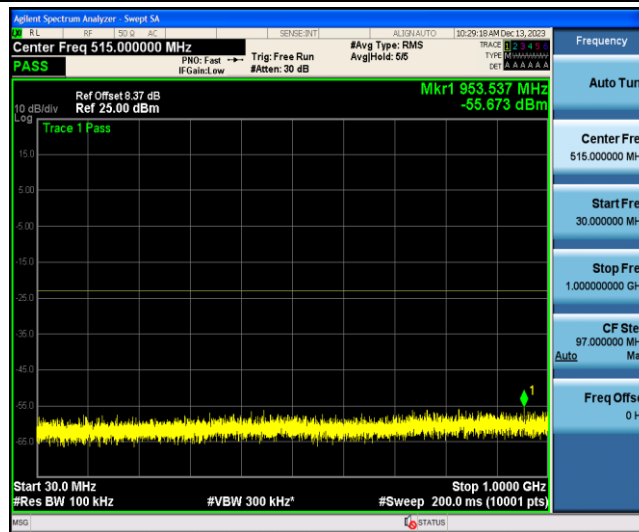
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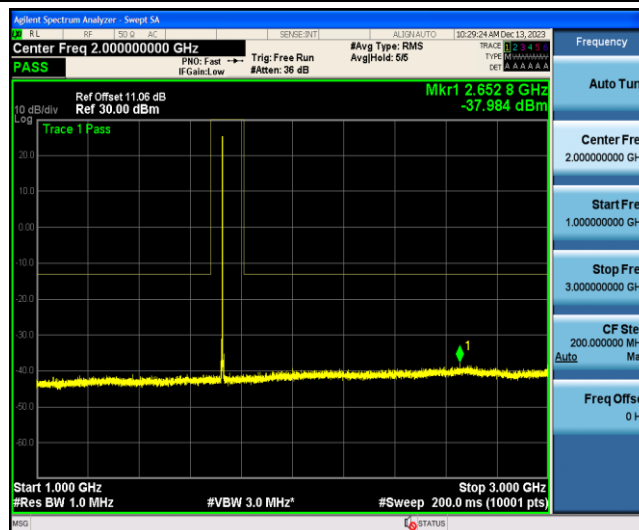


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 200 of 212



1-N66-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-30-1000-Ant0-953.54--55.67--23-PASS



1-N66-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-1000-3000-Ant0-2652.80--37.98--13-PASS



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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 201 of 212



1-N66-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-3000-12000-Ant0-6279.60--34.96--13-PAS
S



1-N66-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-12000-20000-Ant0-18778.40--24.37--13-PA
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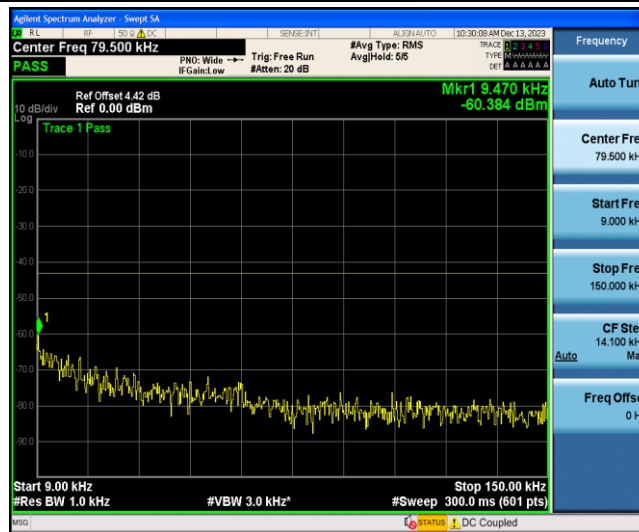
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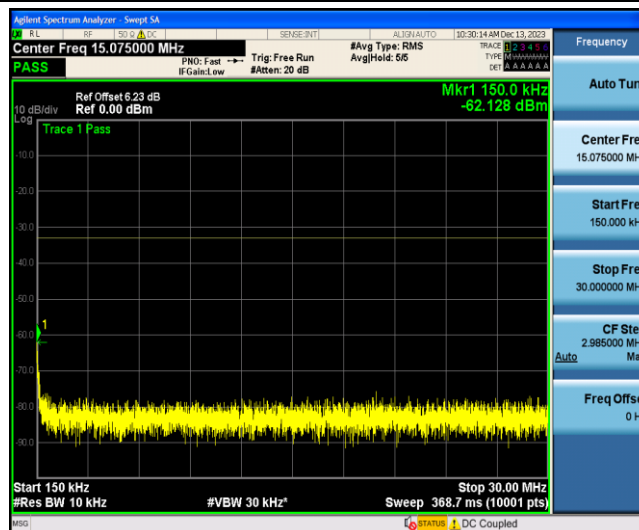


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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 202 of 212



1-N66-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.009-0.15-Ant0-0.01--60.38--43-PASS



1-N66-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.15-30-Ant0-0.15--62.13--33-PASS



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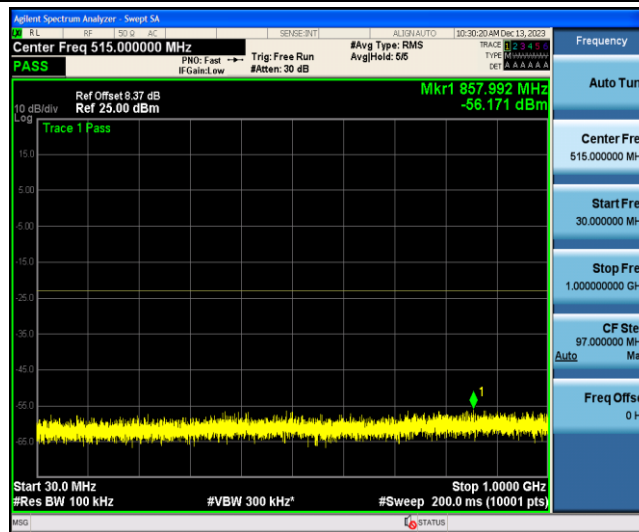
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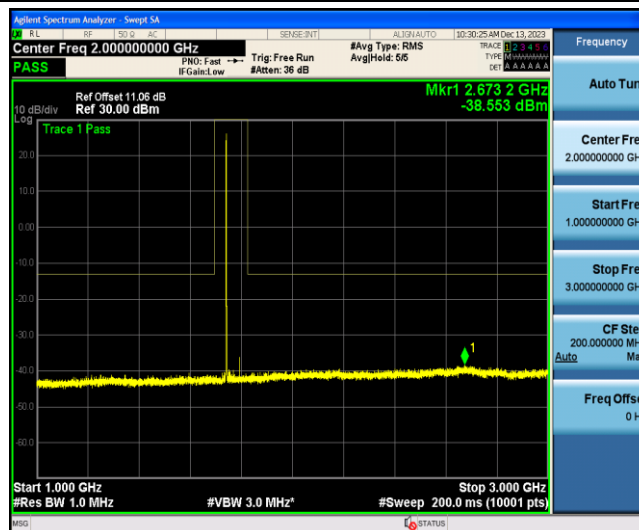


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Rev.: 01
Page: 203 of 212



1-N66-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-30-1000-Ant0-857.99--56.17--23-PASS



1-N66-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-1000-3000-Ant0-2673.20--38.55--13-PASS



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Rev.: 01
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1-N66-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-3000-12000-Ant0-5774.25--35.27--13-PAS

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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 205 of 212

Field Strength of Spurious Radiation

Test Band = n66_TM1

Test Channel = Low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.0000	44.78	28.68	-47.01	-68.81	-13.00	55.81	Horizontal
2	5136.0000	44.39	31.73	-47.02	-66.16	-13.00	53.16	Horizontal
3	6848.0000	44.17	35.44	-46.12	-61.77	-13.00	48.77	Horizontal
4	8560.0000	41.42	36.14	-43.29	-60.99	-13.00	47.99	Horizontal
5	10272.0000	37.93	38.73	-40.48	-59.08	-13.00	46.08	Horizontal
6	11984.0000	37.15	39.80	-38.65	-56.96	-13.00	43.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.0000	44.46	28.68	-47.01	-69.13	-13.00	56.13	Vertical
2	5136.0000	44.45	31.73	-47.02	-66.10	-13.00	53.10	Vertical
3	6844.3538	47.96	35.43	-46.12	-57.99	-13.00	44.99	Vertical
4	8560.0000	41.14	36.14	-43.29	-61.27	-13.00	48.27	Vertical
5	10272.0000	38.39	38.73	-40.48	-58.62	-13.00	45.62	Vertical
6	11984.0000	37.43	39.80	-38.65	-56.68	-13.00	43.68	Vertical



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Rev.: 01
Page: 206 of 212

Test Band = n66_ TM1
Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.0000	45.09	28.69	-46.97	-68.45	-13.00	55.45	Horizontal
2	5181.0000	44.28	31.83	-46.95	-66.10	-13.00	53.10	Horizontal
3	6908.0000	43.54	35.58	-46.07	-62.21	-13.00	49.21	Horizontal
4	8635.0000	41.42	36.14	-43.18	-60.88	-13.00	47.88	Horizontal
5	10362.0000	39.36	38.83	-40.37	-57.44	-13.00	44.44	Horizontal
6	12089.0000	37.14	39.79	-38.72	-57.05	-13.00	44.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.0000	44.47	28.69	-46.97	-69.07	-13.00	56.07	Vertical
2	5181.0000	44.15	31.83	-46.95	-66.23	-13.00	53.23	Vertical
3	6904.3562	50.05	35.57	-46.08	-55.72	-13.00	42.72	Vertical
4	8635.0000	42.12	36.14	-43.18	-60.18	-13.00	47.18	Vertical
5	10362.0000	38.99	38.83	-40.37	-57.81	-13.00	44.81	Vertical
6	12089.0000	37.47	39.79	-38.72	-56.72	-13.00	43.72	Vertical



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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 207 of 212

Test Band = n66_ TM1

Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3484.0000	44.69	28.70	-46.93	-68.80	-13.00	55.80	Horizontal
2	5226.0000	44.41	31.94	-46.97	-65.88	-13.00	52.88	Horizontal
3	6968.0000	43.54	35.72	-45.85	-61.85	-13.00	48.85	Horizontal
4	8710.0000	41.37	36.13	-43.18	-60.94	-13.00	47.94	Horizontal
5	10452.0000	38.09	38.94	-40.40	-58.63	-13.00	45.63	Horizontal
6	12194.0000	37.13	39.78	-38.95	-57.30	-13.00	44.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3484.0000	44.78	28.70	-46.93	-68.71	-13.00	55.71	Vertical
2	5226.0000	44.69	31.94	-46.97	-65.60	-13.00	52.60	Vertical
3	6964.3586	51.54	35.71	-45.86	-53.87	-13.00	40.87	Vertical
4	8710.0000	41.61	36.13	-43.18	-60.70	-13.00	47.70	Vertical
5	10452.0000	38.48	38.94	-40.40	-58.24	-13.00	45.24	Vertical
6	12194.0000	37.43	39.78	-38.95	-57.00	-13.00	44.00	Vertical



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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 208 of 212

Test Band = n66B_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	44.02	-48.38	28.67	-70.95	-13.00	57.95	Horizontal
2	5133.27	42.59	-47.84	31.82	-68.69	-13.00	55.69	Horizontal
3	6844.36	43.06	-46.82	35.26	-63.76	-13.00	50.76	Horizontal
4	8555.45	40.31	-44.11	36.98	-62.08	-13.00	49.08	Horizontal
5	10266.54	37.76	-41.48	38.74	-60.24	-13.00	47.24	Horizontal
6	11977.63	36.28	-39.54	39.20	-59.32	-13.00	46.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	44.29	-48.38	28.67	-70.68	-13.00	57.68	Vertical
2	5133.27	42.76	-47.84	31.82	-68.52	-13.00	55.52	Vertical
3	6844.36	42.96	-46.82	35.26	-63.86	-13.00	50.86	Vertical
4	8555.45	39.93	-44.11	36.98	-62.46	-13.00	49.46	Vertical
5	10266.54	37.91	-41.48	38.74	-60.09	-13.00	47.09	Vertical
6	11977.63	36.72	-39.54	39.20	-58.88	-13.00	45.88	Vertical



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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 209 of 212

Test Band = n66B_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	44.03	-48.32	28.69	-70.86	-13.00	57.86	Horizontal
2	5208.27	43.80	-47.88	32.00	-67.34	-13.00	54.34	Horizontal
3	6944.36	42.30	-46.67	35.48	-64.15	-13.00	51.15	Horizontal
4	8680.45	39.59	-44.09	37.15	-62.61	-13.00	49.61	Horizontal
5	10416.54	38.13	-41.14	38.88	-59.40	-13.00	46.40	Horizontal
6	12152.63	36.10	-39.73	39.11	-59.78	-13.00	46.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	43.83	-48.32	28.69	-71.06	-13.00	58.06	Vertical
2	5208.27	42.82	-47.88	32.00	-68.32	-13.00	55.32	Vertical
3	6944.36	42.23	-46.67	35.48	-64.22	-13.00	51.22	Vertical
4	8680.45	39.29	-44.09	37.15	-62.91	-13.00	49.91	Vertical
5	10416.54	37.64	-41.14	38.88	-59.89	-13.00	46.89	Vertical
6	12152.63	36.33	-39.73	39.11	-59.55	-13.00	46.55	Vertical



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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 210 of 212

Test Band = n66B_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.18	44.11	-48.29	28.73	-70.71	-13.00	57.71	Horizontal
2	5283.27	43.95	-47.80	32.18	-66.93	-13.00	53.93	Horizontal
3	7044.36	42.43	-46.26	35.71	-63.38	-13.00	50.38	Horizontal
4	8805.45	40.09	-43.99	37.33	-61.83	-13.00	48.83	Horizontal
5	10566.54	37.73	-41.05	39.01	-59.57	-13.00	46.57	Horizontal
6	12327.63	36.31	-39.68	39.00	-59.63	-13.00	46.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.18	45.05	-48.29	28.73	-69.77	-13.00	56.77	Vertical
2	5283.27	43.57	-47.80	32.18	-67.31	-13.00	54.31	Vertical
3	7044.36	41.91	-46.26	35.71	-63.90	-13.00	50.90	Vertical
4	8805.45	40.29	-43.99	37.33	-61.63	-13.00	48.63	Vertical
5	10566.54	37.65	-41.05	39.01	-59.65	-13.00	46.65	Vertical
6	12327.63	35.82	-39.68	39.00	-60.12	-13.00	47.12	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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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 211 of 212

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	216@0	VN	NT	-5.60	0.00	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	VL	NT	-9.50	-0.01	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	VH	NT	-4.90	0.00	PASS
N66	15	40	CP-QPSK	M	216@0	VN	NT	-7.20	0.00	PASS
N66	15	40	CP-QPSK	M	216@0	VL	NT	-5.40	0.00	PASS
N66	15	40	CP-QPSK	M	216@0	VH	NT	-7.40	0.00	PASS



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Report No.: ZEWA2312000155RG02
Rev.: 01
Page: 212 of 212

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	216@0	NV	-20	-2.700000	-0.001547	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	50	-2.800000	-0.001605	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	40	-4.700000	-0.002693	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	10	-5.800000	-0.003324	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	-10	-2.800000	-0.001605	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	-30	-4.500000	-0.002579	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	30	-7.200000	-0.004126	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	0	-2.200000	-0.001261	PASS
N66	15	40	DFT-PI2BPSK	M	216@0	NV	20	-5.200000	-0.002980	PASS
N66	15	40	CP-QPSK	M	216@0	NV	0	-8.600000	-0.004928	PASS
N66	15	40	CP-QPSK	M	216@0	NV	10	-10.900000	-0.006246	PASS
N66	15	40	CP-QPSK	M	216@0	NV	-10	-6.400000	-0.003668	PASS
N66	15	40	CP-QPSK	M	216@0	NV	-20	-7.400000	-0.004241	PASS
N66	15	40	CP-QPSK	M	216@0	NV	50	-5.300000	-0.003037	PASS
N66	15	40	CP-QPSK	M	216@0	NV	30	-5.900000	-0.003381	PASS
N66	15	40	CP-QPSK	M	216@0	NV	-30	-5.800000	-0.003324	PASS
N66	15	40	CP-QPSK	M	216@0	NV	40	-6.800000	-0.003897	PASS
N66	15	40	CP-QPSK	M	216@0	NV	20	-8.000000	-0.004585	PASS

---End of Attachment---



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