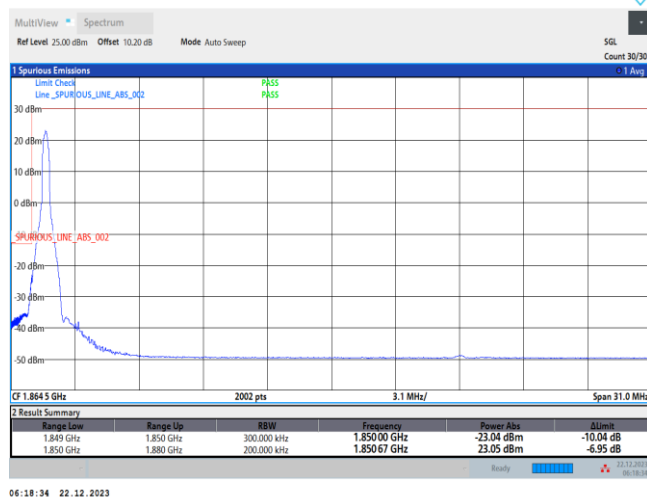


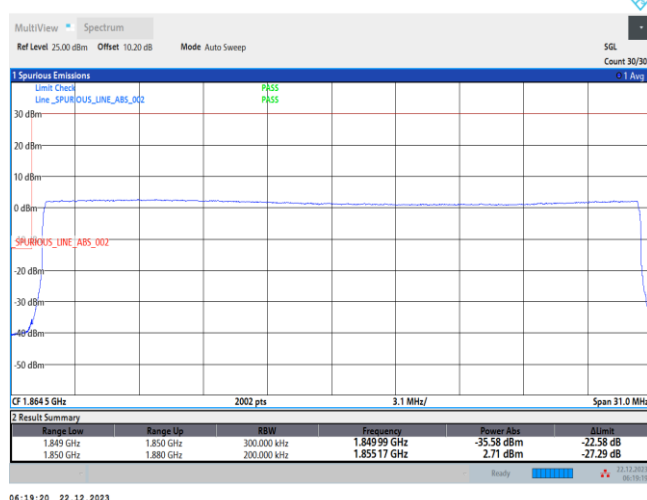


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1-N2-PC3-15-30-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant0-1-seegraph-PASS-see graph



1-N2-PC3-15-30-L-3-DFT-PI2BPSK-Outer\_Full-160@0-Ant0-1-seegraph-PASS-see graph



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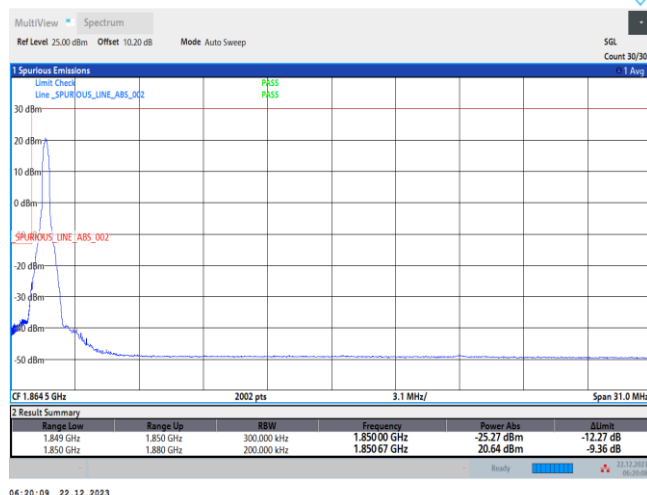
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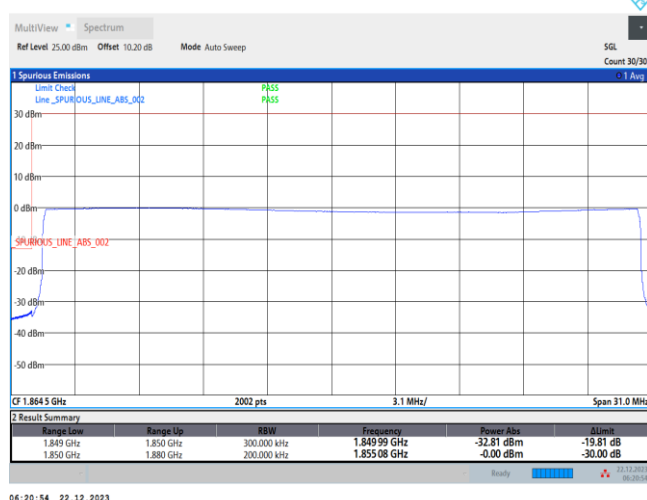


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1-N2-PC3-15-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant0-1-seegraph-PASS-see graph



1-N2-PC3-15-30-L-6-CP-QPSK-Outer\_Full-160@0-Ant0-1-seegraph-PASS-see graph



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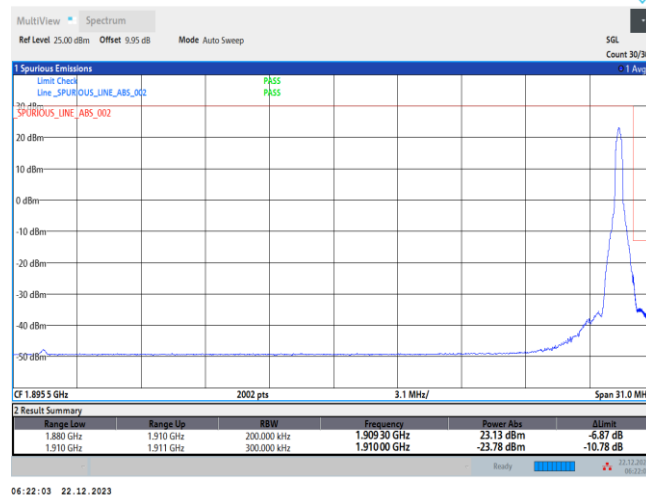
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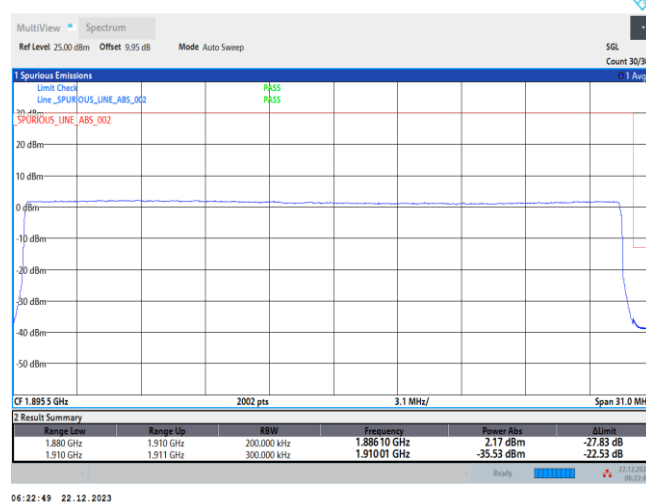


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1-N2-PC3-15-30-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@159-Ant0-1-seegraph-PASS-see graph



1-N2-PC3-15-30-H-3-DFT-PI2BPSK-Outer\_Full-160@0-Ant0-1-seegraph-PASS-see graph



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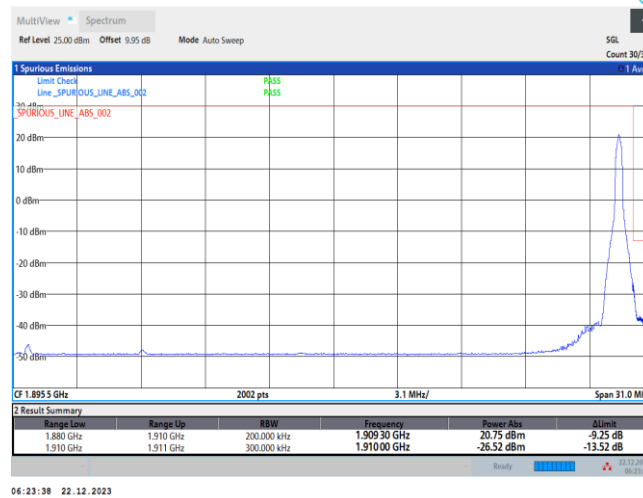
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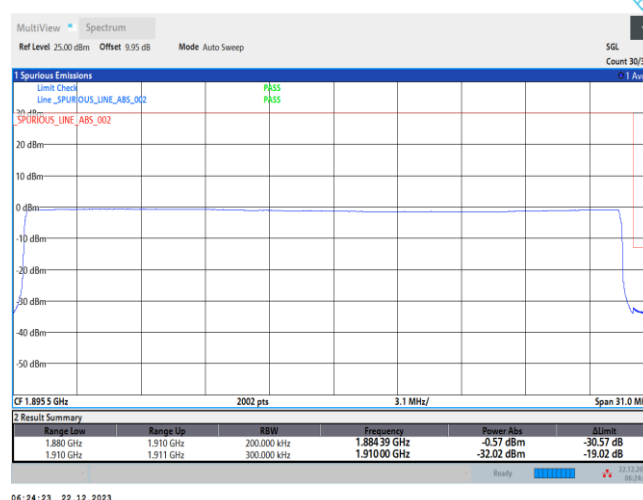
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06:23:38 22.12.2023

1-N2-PC3-15-30-H-5-CP-QPSK-Edge\_1RB\_Right-1 @ 159-Ant0-1-seegraph-PASS-see graph



06:24:23 22.12.2023

1-N2-PC3-15-30-H-6-CP-QPSK-Outer\_Full-160@0-Ant0-1-seegraph-PASS-see graph



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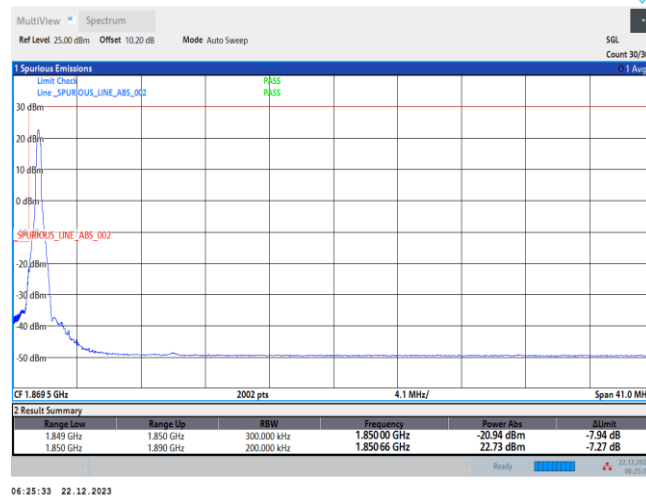
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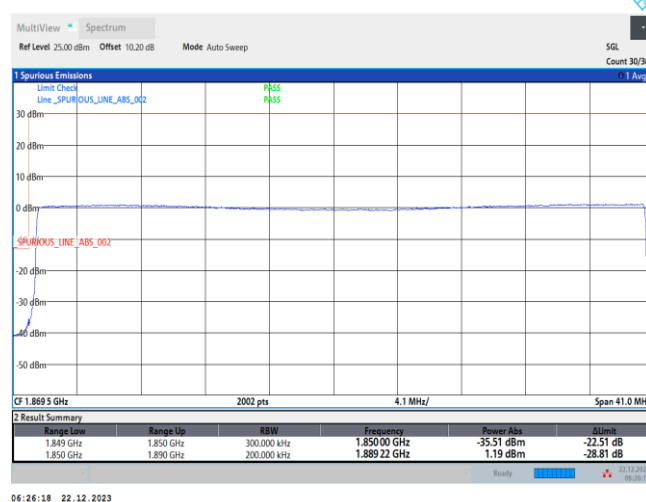


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1-N2-PC3-15-40-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant0-1-seegraph-PASS-see graph



1-N2-PC3-15-40-L-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant0-1-seegraph-PASS-see graph



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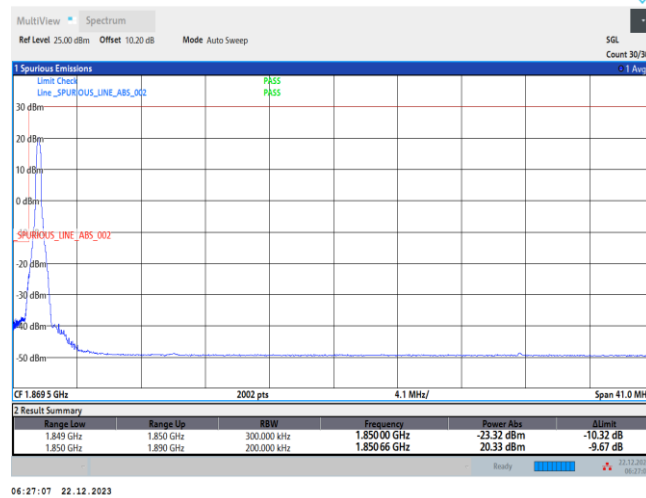
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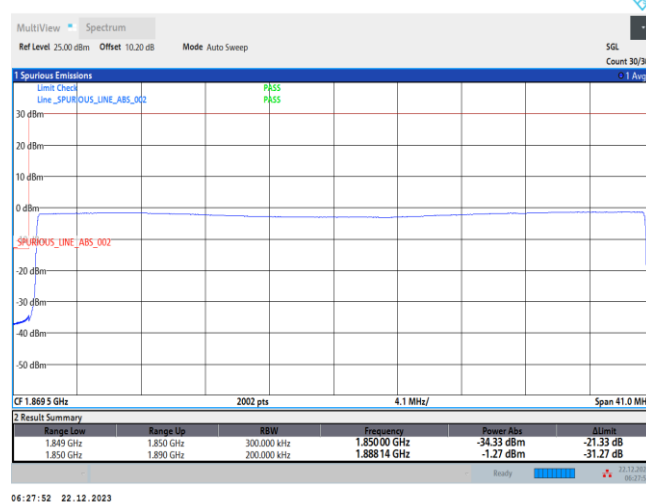
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06:27:07 22.12.2023

1-N2-PC3-15-40-L-4-CP-QPSK-Edge\_1RB\_Left-1 @ 0-Ant0-1-seegraph-PASS-see graph



06:27:52 22.12.2023

1-N2-PC3-15-40-L-6-CP-QPSK-Outer\_Full-216 @ 0-Ant0-1-seegraph-PASS-see graph



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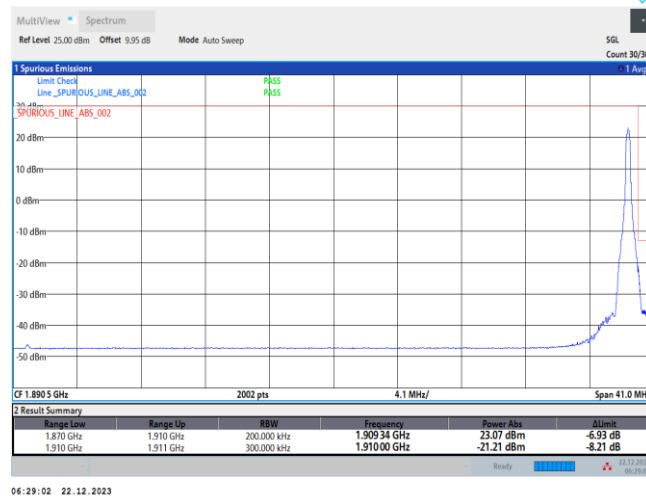
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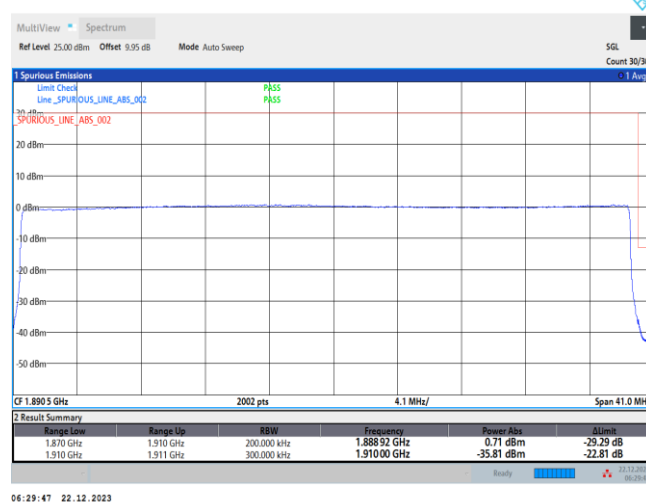


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1-N2-PC3-15-40-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@215-Ant0-1-seegraph-PASS-see graph



1-N2-PC3-15-40-H-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant0-1-seegraph-PASS-see graph



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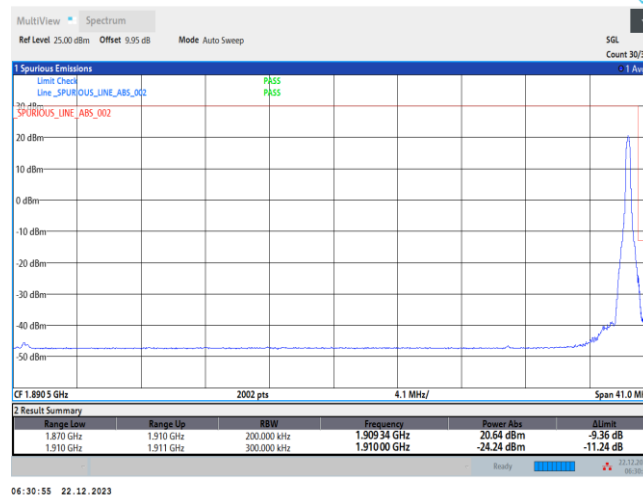
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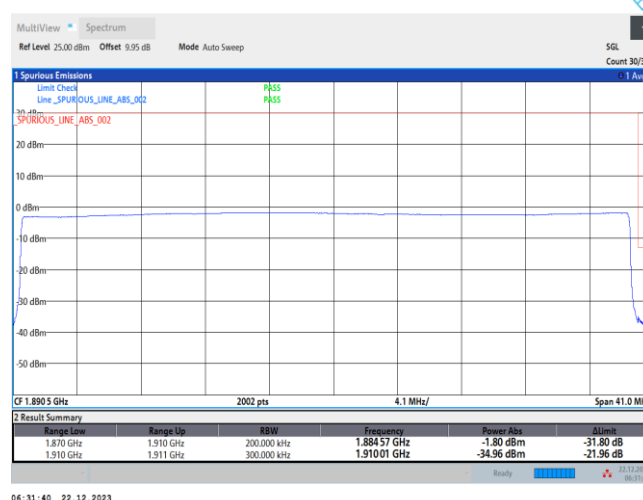
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06:30:55 22.12.2023

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06:31:40 22.12.2023

1-N2-PC3-15-40-H-6-CP-QPSK-Outer\_Full-216@0-Ant0-1-seegraph-PASS-see graph



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## Conducted Spurious Emission for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N2	15	40	DFT-PI2BPSK	L	0.009	0.15	1@1	-62.78	-43	PASS
N2	15	40	DFT-PI2BPSK	L	0.15	30	1@1	-66.44	-33	PASS
N2	15	40	DFT-PI2BPSK	L	30	1000	1@1	-55.47	-23	PASS
N2	15	40	DFT-PI2BPSK	L	1000	3000	1@1	-38.40	-13	PASS
N2	15	40	DFT-PI2BPSK	L	3000	12000	1@1	-44.82	-13	PASS
N2	15	40	DFT-PI2BPSK	L	12000	20000	1@1	-34.57	-13	PASS
N2	15	40	DFT-PI2BPSK	M	0.009	0.15	1@1	-61.64	-43	PASS
N2	15	40	DFT-PI2BPSK	M	0.15	30	1@1	-66.07	-33	PASS
N2	15	40	DFT-PI2BPSK	M	30	1000	1@1	-55.67	-23	PASS
N2	15	40	DFT-PI2BPSK	M	1000	3000	1@1	-38.51	-13	PASS
N2	15	40	DFT-PI2BPSK	M	3000	12000	1@1	-44.82	-13	PASS
N2	15	40	DFT-PI2BPSK	M	12000	20000	1@1	-34.09	-13	PASS
N2	15	40	DFT-PI2BPSK	H	0.009	0.15	1@1	-61.93	-43	PASS
N2	15	40	DFT-PI2BPSK	H	0.15	30	1@1	-66.71	-33	PASS
N2	15	40	DFT-PI2BPSK	H	30	1000	1@1	-55.20	-23	PASS
N2	15	40	DFT-PI2BPSK	H	1000	3000	1@1	-38.50	-13	PASS
N2	15	40	DFT-PI2BPSK	H	3000	12000	1@1	-45.06	-13	PASS
N2	15	40	DFT-PI2BPSK	H	12000	20000	1@1	-34.16	-13	PASS



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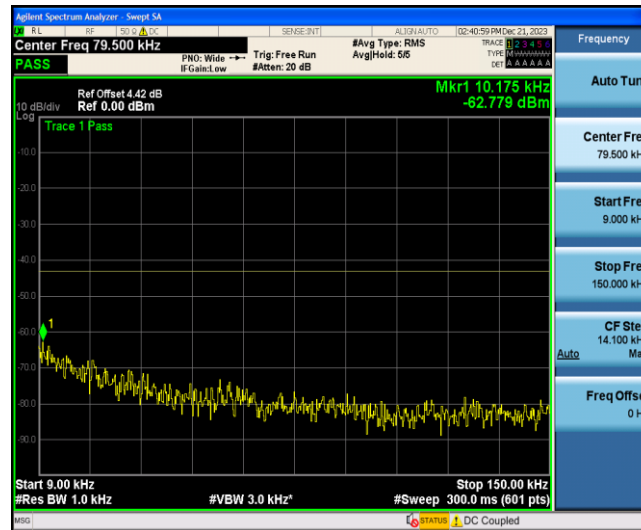
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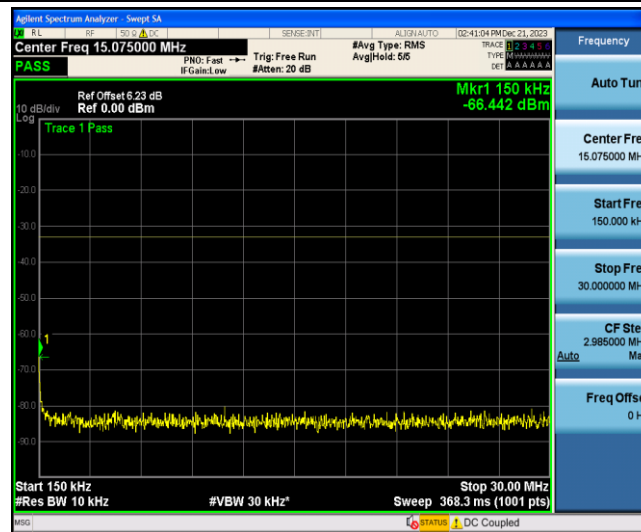
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## Test Graphs



1-N2-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.009-0.15-Ant0-0.01--62.78--43-PASS



1-N2-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant0-0.15--66.44--33-PASS



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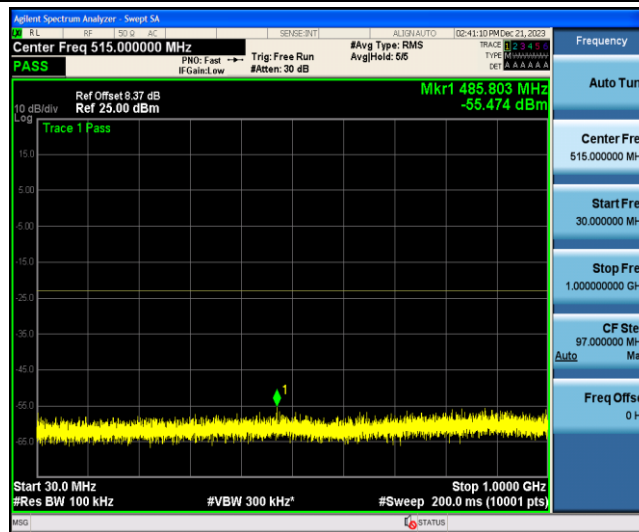
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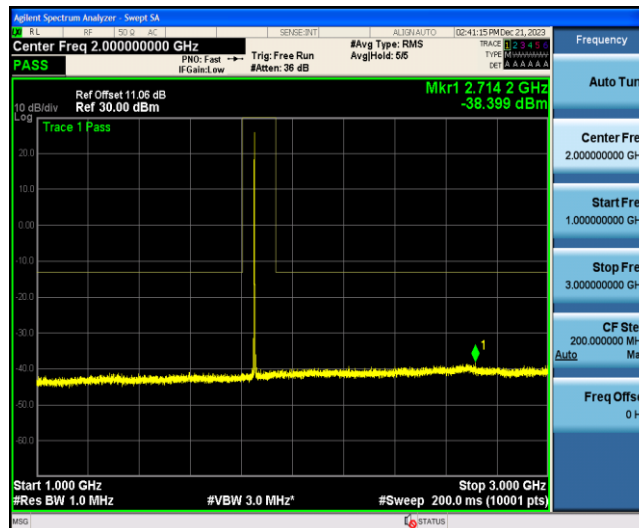


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1-N2-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant0-485.80--55.47--23-PASS



1-N2-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant0-2714.20--38.40--13-PASS



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1-N2-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant0-3701.55--44.82--13-PASS



1-N2-PC3-15-40-L-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant0-19233.60--34.57--13-PAS

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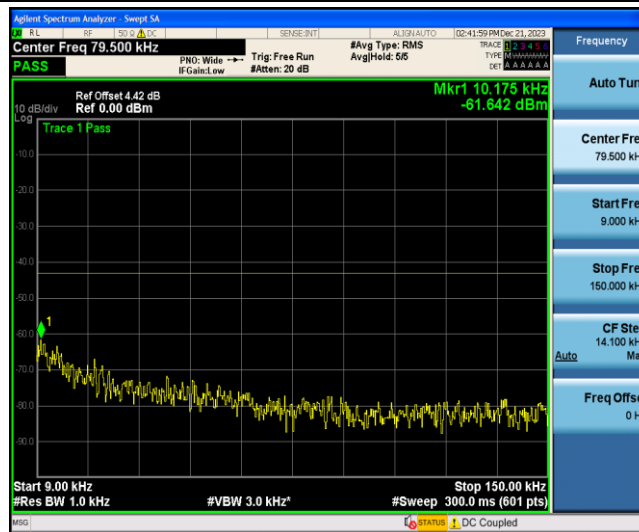
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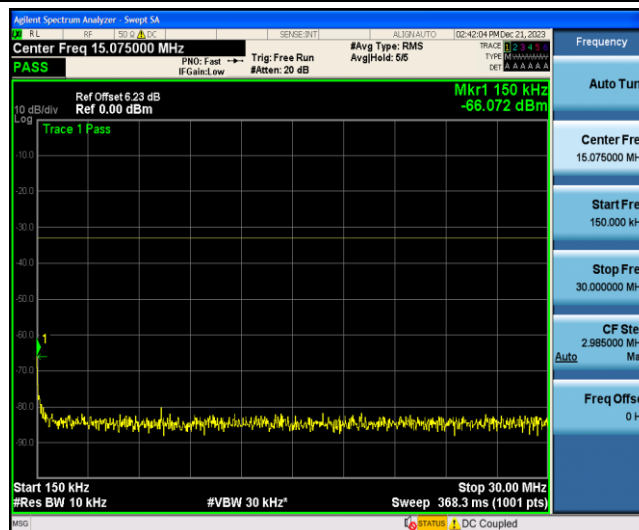


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1-N2-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.009-0.15-Ant0-0.01--61.64--43-PASS



1-N2-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant0-0.15--66.07--33-PASS



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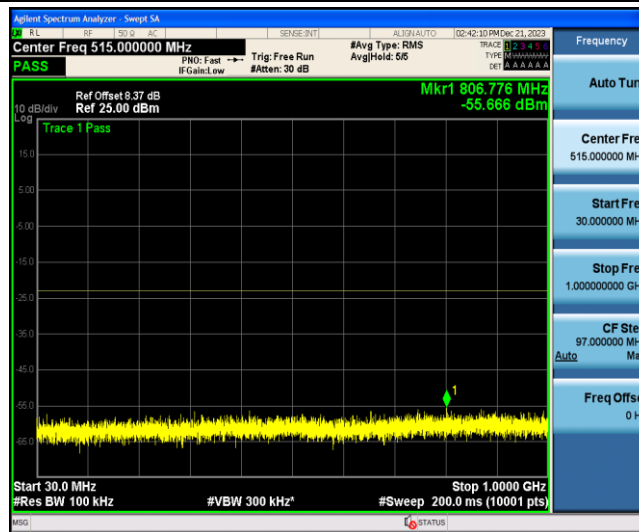
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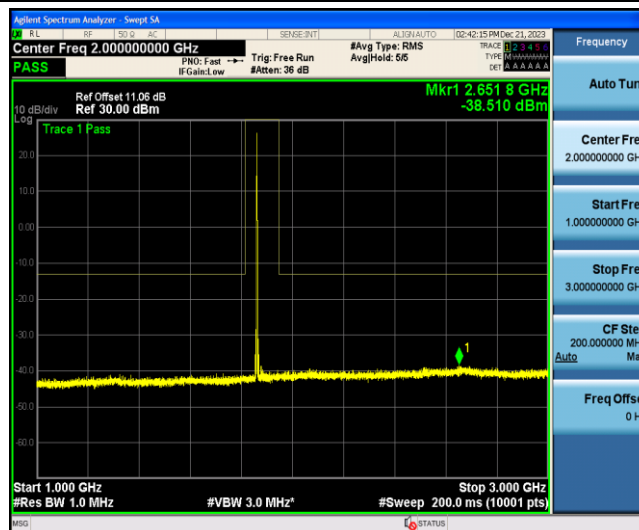


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1-N2-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant0-806.78--55.67--23-PASS



1-N2-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant0-2651.80--38.51--13-PASS



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1-N2-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant0-6444.75--44.82--13-PASS



1-N2-PC3-15-40-M-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant0-16732.00--34.09--13-PA

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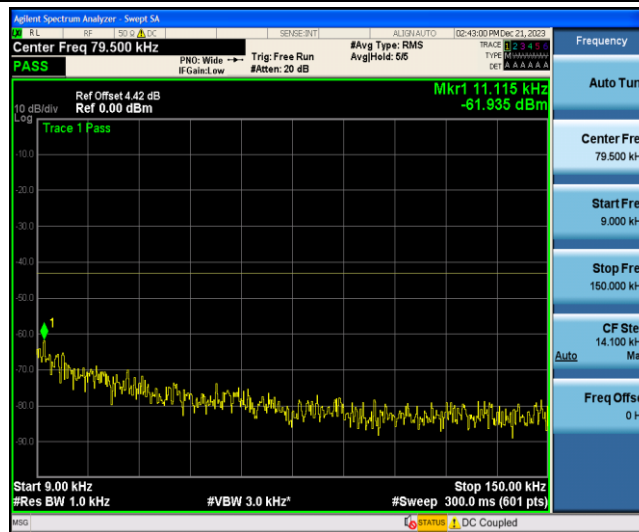
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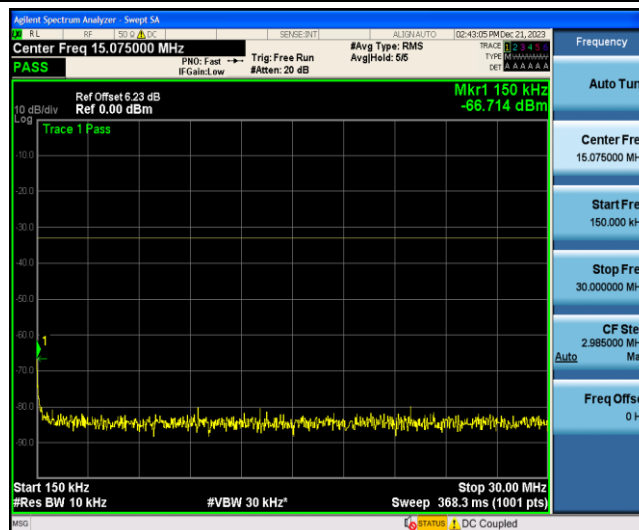


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1-N2-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.009-0.15-Ant0-0.01--61.93--43-PASS



1-N2-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant0-0.15--66.71--33-PASS



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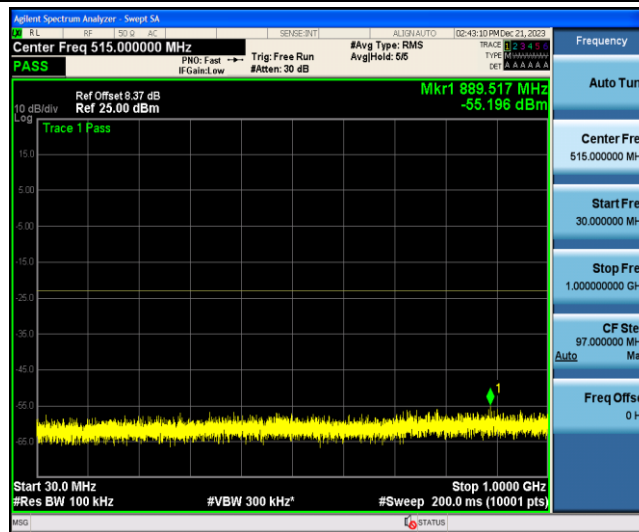
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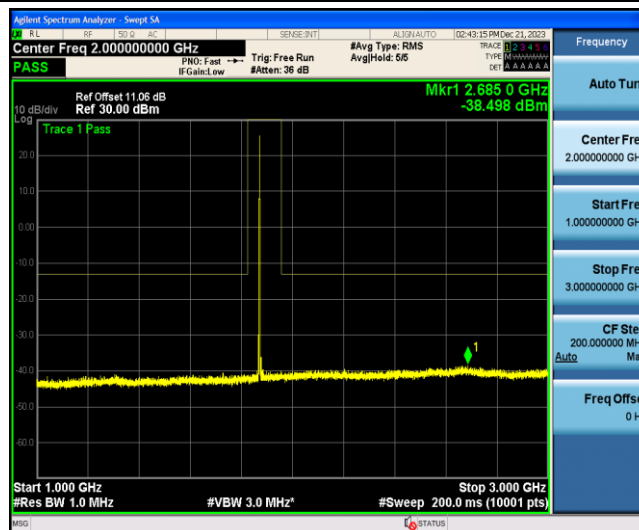


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1-N2-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant0-889.52--55.20--23-PASS



1-N2-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant0-2685.00--38.50--13-PASS



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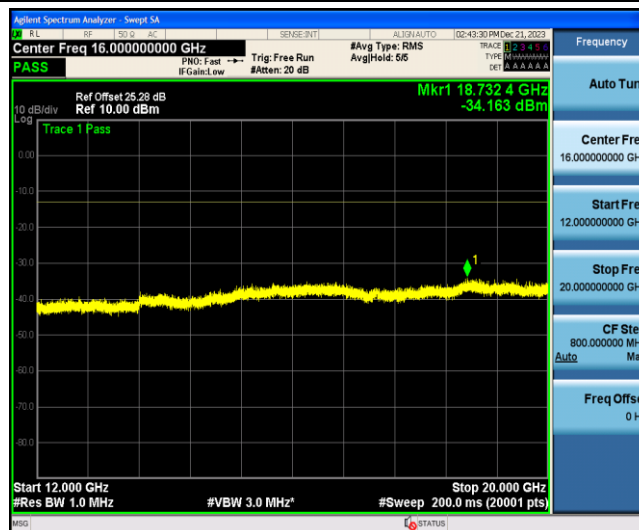


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1-N2-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant0-5449.35--45.06--13-PASS



1-N2-PC3-15-40-H-1-N/A-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-20000-Ant0-18732.40--34.16--13-PAS

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## Field Strength of Spurious Radiation

Test Band = n2\_ 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	3702.0000	44.48	29.02	-47.47	-69.23	-13.00	56.23	Horizontal
2	5553.0000	44.59	32.58	-47.04	-65.13	-13.00	52.13	Horizontal
3	7404.0000	43.47	36.29	-45.07	-60.57	-13.00	47.57	Horizontal
4	9255.0000	40.48	36.69	-42.41	-60.50	-13.00	47.50	Horizontal
5	11106.0000	37.30	39.62	-39.37	-57.71	-13.00	44.71	Horizontal
6	12957.0000	36.46	39.70	-38.62	-57.72	-13.00	44.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3701.4281	47.05	29.02	-47.48	-66.67	-13.00	53.67	Vertical
2	5553.0000	44.39	32.58	-47.04	-65.33	-13.00	52.33	Vertical
3	7403.5761	45.49	36.28	-45.07	-58.56	-13.00	45.56	Vertical
4	9255.0000	40.93	36.69	-42.41	-60.05	-13.00	47.05	Vertical
5	11106.0000	37.51	39.62	-39.37	-57.50	-13.00	44.50	Vertical
6	12957.0000	36.55	39.70	-38.62	-57.63	-13.00	44.63	Vertical



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Test Band = n2\_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	3742.0000	44.37	29.09	-47.37	-69.17	-13.00	56.17	Horizontal
2	5613.0000	44.19	32.55	-46.93	-65.45	-13.00	52.45	Horizontal
3	7484.0000	42.83	36.38	-45.09	-61.14	-13.00	48.14	Horizontal
4	9355.0000	39.89	36.92	-41.98	-60.43	-13.00	47.43	Horizontal
5	11226.0000	37.92	39.65	-39.00	-56.69	-13.00	43.69	Horizontal
6	13097.0000	36.46	39.87	-38.84	-57.77	-13.00	44.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3741.0296	48.77	29.09	-47.37	-64.77	-13.00	51.77	Vertical
2	5613.0000	44.59	32.55	-46.93	-65.05	-13.00	52.05	Vertical
3	7484.0000	43.12	36.38	-45.09	-60.85	-13.00	47.85	Vertical
4	9355.0000	39.81	36.92	-41.98	-60.51	-13.00	47.51	Vertical
5	11226.0000	38.09	39.65	-39.00	-56.52	-13.00	43.52	Vertical
6	13097.0000	36.74	39.87	-38.84	-57.49	-13.00	44.49	Vertical



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Test Band = n2\_ 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	3782.0000	44.31	29.15	-47.26	-69.06	-13.00	56.06	Horizontal
2	5673.0000	44.09	32.53	-46.79	-65.43	-13.00	52.43	Horizontal
3	7564.0000	42.87	36.37	-44.79	-60.81	-13.00	47.81	Horizontal
4	9455.0000	39.66	37.15	-41.78	-60.23	-13.00	47.23	Horizontal
5	11346.0000	37.44	39.67	-39.06	-57.21	-13.00	44.21	Horizontal
6	13237.0000	36.77	40.13	-38.33	-56.69	-13.00	43.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3781.2312	48.71	29.15	-47.26	-64.66	-13.00	51.66	Vertical
2	5673.0000	45.31	32.53	-46.79	-64.21	-13.00	51.21	Vertical
3	7564.0000	42.74	36.37	-44.79	-60.94	-13.00	47.94	Vertical
4	9455.0000	39.89	37.15	-41.78	-60.00	-13.00	47.00	Vertical
5	11346.0000	37.57	39.67	-39.06	-57.08	-13.00	44.08	Vertical
6	13237.0000	37.19	40.13	-38.33	-56.27	-13.00	43.27	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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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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## 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
N2	15	40	DFT-PI2BPSK	M	216@0	VH	NT	-3.20	0.00	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	VN	NT	-4.80	0.00	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	VL	NT	-2.30	0.00	PASS
N2	15	40	CP-QPSK	M	216@0	VH	NT	6.90	0.00	PASS
N2	15	40	CP-QPSK	M	216@0	VN	NT	4.90	0.00	PASS
N2	15	40	CP-QPSK	M	216@0	VL	NT	2.50	0.00	PASS



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Shenzhen Branch Wireless Laboratory

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## Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N2	15	40	DFT-PI2BPSK	M	216@0	NV	50	-4.600000	-0.002447	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	-20	-5.500000	-0.002926	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	-10	2.800000	0.001489	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	0	-2.000000	-0.001064	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	10	2.200000	0.001170	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	20	-2.300000	-0.001223	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	30	-4.100000	-0.002181	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	-30	-5.000000	-0.002660	PASS
N2	15	40	DFT-PI2BPSK	M	216@0	NV	40	4.000000	0.002128	PASS
N2	15	40	CP-QPSK	M	216@0	NV	50	7.500000	0.003989	PASS
N2	15	40	CP-QPSK	M	216@0	NV	-20	6.200000	0.003298	PASS
N2	15	40	CP-QPSK	M	216@0	NV	-10	3.900000	0.002074	PASS
N2	15	40	CP-QPSK	M	216@0	NV	0	-2.800000	-0.001489	PASS
N2	15	40	CP-QPSK	M	216@0	NV	10	-3.200000	-0.001702	PASS
N2	15	40	CP-QPSK	M	216@0	NV	20	5.100000	0.002713	PASS
N2	15	40	CP-QPSK	M	216@0	NV	30	3.800000	0.002021	PASS
N2	15	40	CP-QPSK	M	216@0	NV	40	4.100000	0.002181	PASS
N2	15	40	CP-QPSK	M	216@0	NV	-30	5.100000	0.002713	PASS

---End of Attachment---



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